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# SAR EVALUATION REPORT

### **Applicant Name:**

LG Electronics U.S.A., Inc. 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 **United States** 

### Date of Testing: 01/21/20 - 2/10/2020 **Test Site/Location:** PCTEST Lab, Columbia, MD, USA **Document Serial No.:** 1M2001200008-01-R1.ZNF

# FCC ID:

### ZNFK300AM

**APPLICANT:** 

### LG ELECTRONICS U.S.A., INC.

DUT Type: **Application Type:** FCC Rule Part(s): Model: Additional Models: **Portable Handset** Certification CFR §2.1093 LM-K300AM LM-K300CMR, LMK300AM, LMK300CMR, K300AM, K300CMR

Equipment	Band & Mode	Tx Frequency	SAR		
Class	Band & Mode	Tx Frequency	1g Head (W/kg)	1g Body- Worn (W/kg)	1g Hotspot (W/kg)
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.43	0.59	0.59
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	0.15	0.33	0.43
PCE	UMTS 850	826.40 - 846.60 MHz	0.25	0.30	0.30
PCE	UMTS 1750	1712.4 - 1752.6 MHz	0.26	0.76	0.76
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.24	0.59	0.71
PCE	LTE Band 12	699.7 - 715.3 MHz	0.38	0.55	0.57
PCE	LTE Band 14	790.5 - 795.5 MHz	0.30	0.48	0.55
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.36	0.47	0.47
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	0.25	0.73	0.76
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	0.22	0.51	0.67
PCE	LTE Band 30	2307.5 - 2312.5 MHz	0.23	0.60	0.82
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.63	0.33	0.33
DSS/DTS	Bluetooth	2402 - 2480 MHz	< 0.1	N/A	N/A
Simultaneou	s SAR per KDB 690783 D	1.06	1.08	1.15	

Note: This revised Test Report (S/N: 1M2001200008-01-R1.ZNF) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 0 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.







The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🔁 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dogo 1 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 1 of 67
202	20 PCTEST				REV 21.4 M

© 2020 PCTEST

# TABLE OF CONTENTS

1	DEVICE	JNDER TEST	.3	
2	LTE INFO	DRMATION	.9	
3	INTRODU		10	
4	DOSIME	TRIC ASSESSMENT	11	
5	DEFINITI	ON OF REFERENCE POINTS	12	
6	TEST CC	NFIGURATION POSITIONS	13	
7	RF EXPOSURE LIMITS			
8	FCC MEA	ASUREMENT PROCEDURES	17	
9	RF CON	DUCTED POWERS	22	
10	SYSTEM VERIFICATION			
11	SAR DAT	A SUMMARY	45	
12	FCC MUL	TI-TX AND ANTENNA SAR CONSIDERATIONS	57	
13	SAR MEA	ASUREMENT VARIABILITY	32	
14	EQUIPM	ENT LIST	53	
15	MEASUR	EMENT UNCERTAINTIES	54	
16	CONCLU	SION	35	
17	REFERE	NCES	36	
APPEN APPEN APPEN APPEN APPEN	DIX B: DIX C: DIX C:	SAR TEST PLOTS SAR DIPOLE VERIFICATION PLOTS SAR TISSUE SPECIFICATIONS SAR TISSUE SPECIFICATIONS SAR SYSTEM VALIDATION		

- APPENDIX E: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS
- APPENDIX G: PROBE AND DIPOLE CALIBRATION CERTIFICATES

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 2 of 67
බ <b>2</b> 02	0 PCTEST				REV 21.4 M

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# **1** DEVICE UNDER TEST

### 1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 MHz
Bluetooth	Data	2402 - 2480 MHz

# **1.2** Power Reduction for SAR

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

### 1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

### 1.3.1 Maximum Output Power

Mode / Band		Voice (dBm)		rage GMSK 3m)		rage 8-PSK 3m)
		1 TX Slot	1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
	Maximum	32.7	32.7	31.7	27.7	25.7
GSM/GPRS/EDGE 850	Nominal	32.2	32.2	31.2	27.2	25.2
GSM/GPRS/EDGE 1900	Maximum	30.7	30.7	28.7	26.7	24.7
GSIM/GPRS/EDGE 1900	Nominal	30.2	30.2	28.2	26.2	24.2

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 3 of 67
a 202	DOTEST				DEV/ 21.4 M

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		Modulated Average (dBm)		
Mode / Band		3GPP	3GPP	3GPP
		WCDMA	HSDPA	HSUPA
LINATS Band E (SEO MHZ)	Maximum	25.2	25.2	25.2
UMTS Band 5 (850 MHz)	Nominal	24.7	24.7	24.7
LINATS Dood 4 (1750 MULT)	Maximum	24.7	24.7	24.7
UMTS Band 4 (1750 MHz)	Nominal	24.2	24.2	24.2
UMTS Band 2 (1900 MHz)	Maximum	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2

Mode / Band	Modulated Average (dBm)	
LTE Band 12	Maximum	25.2
	Nominal	24.7
LTE Band 14	Maximum	25.2
	Nominal	24.7
	Maximum	25.2
LTE Band 5 (Cell)	Nominal	24.7
LTE Dond 4 (A)A(C)	Maximum	24.7
LTE Band 4 (AWS)	Nominal	24.2
LTE Dand 2 (DCC)	Maximum	24.7
LTE Band 2 (PCS)	Nominal	24.2
	Maximum	24.2
LTE Band 30	Nominal	23.7

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 4 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 4 01 67
© 202	0 PCTEST				REV 21.4 M

Mode / Band			ated Aver gle Tx Cha (dBm)	U
Channels		1	2 - 10	11
	Maximum	19.0		
IEEE 802.11b (2.4 GHz)	Nominal	18.0		
IEEE 802.11g (2.4 GHz)	Maximum	16.0	18.0	15.0
IEEE 802.11g (2.4 GHz)	Nominal	15.0	17.0	14.0
IEEE 802.11n (2.4 GHz)	Maximum	15.5	17.5	14.5
TEEL 802.1111 (2.4 GHZ)	Nominal	14.5	16.5	13.5

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Divisionath	Maximum	10.0
Bluetooth	Nominal	9.0
Rhustaath I E	Maximum	6.5
Bluetooth LE	Nominal	5.5

# 1.4 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. The overall diagonal dimension of the device is  $\leq$ 160 mm and the diagonal display is  $\leq$ 150 mm. A diagram showing the location of the device antennas can be found in Appendix E.

FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:		
1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 5 of 67
20 PCTEST				REV 21 4 M

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Mode	Back	Front	Тор	Bottom	Right	Left		
GPRS 850	Yes	Yes	No	Yes	No	Yes		
GPRS 1900	Yes	Yes	No	Yes	Yes	No		
UMTS 850	Yes	Yes	No	Yes	No	Yes		
UMTS 1750	Yes	Yes	No	Yes	Yes	No		
UMTS 1900	Yes	Yes	No	Yes	Yes	No		
LTE Band 12	Yes	Yes	No	Yes	No	Yes		
LTE Band 14	Yes	Yes	No	Yes	No	Yes		
LTE Band 5 (Cell)	Yes	Yes	No	Yes	No	Yes		
LTE Band 4 (AWS)	Yes	Yes	No	Yes	Yes	No		
LTE Band 2 (PCS)	Yes	Yes	No	Yes	Yes	No		
LTE Band 30	Yes	Yes	No	Yes	Yes	No		
2.4 GHz WLAN	Yes	Yes	Yes	No	No	Yes		

Table 1-1 **Device Edges/Sides for SAR Testing** 

Note: Particular DUT edges were not required to be evaluated for wireless router SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III. The distances between the transmit antennas and the edges of the device are included in the filing.

#### 1.5 **Simultaneous Transmission Capabilities**

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

No.	No. Capable Transmit Configuration		Body-Worn Accessory	Wireless Router	Notes				
1	GSM voice + 2.4 GHz WI-FI	Yes	Yes	N/A					
2	GSM voice + 2.4 GHz Bluetooth	Yes^	Yes	N/A	^Bluetooth Tethering is considered				
3	UMTS + 2.4 GHz WI-FI	Yes	Yes	Yes					
4	UMTS + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	^Bluetooth Tethering is considered				
5	LTE + 2.4 GHz WI-FI	Yes	Yes	Yes					
6	LTE + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	^Bluetooth Tethering is considered				
7	GPRS/EDGE + 2.4 GHz WI-FI	Yes*	Yes*	Yes	* Pre-installed VOIP applications are considered				
8	GPRS/EDGE + 2.4 GHz Bluetooth	Yes*^	Yes*	Yes^	* Pre-installed VOIP applications are considered ^Bluetooth Tethering is considered				

Table 1-2 Simultaneous Transmission Scenarios

- 1. 2.4 GHz WLAN, and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- 2. All licensed modes share the same antenna path and cannot transmit simultaneously.
- 3. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
- 4. Per the manufacturer, WIFI Direct is expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- 5. This device supports VOLTE.
- This device supports VOWIFI. 6
- 7. This device supports Bluetooth Tethering.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:		Dage C of C7		
	1M2001200008-01-R1.ZNF	01/21/20 – 2/10/20 Portable Handset			Page 6 of 67		
202	2020 PCTEST						

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#### 1.6 Miscellaneous SAR Test Considerations

### (A) WIFI/BT

Per FCC KDB 447498 D01v06, the 1g SAR exclusion threshold for distances <50mm is defined by the following equation:

$$\frac{Max Power of Channel (mW)}{Test Separation Dist (mm)} * \sqrt{Frequency(GHz)} \le 3.0$$

Based on the maximum conducted power of Bluetooth (rounded to the nearest mW) and the antenna to user separation distance, body-worn and hotspot Bluetooth SAR was not required;  $[(10/10)^* \sqrt{2.480}] = 1.6 < 3.0$ . Per KDB Publication 447498 D01v06, the maximum power of the channel was rounded to the nearest mW before calculation

### (B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The ownlink carrier aggregation exclusion analysis can be found in Appendix F

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕑 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:			
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 7 of 67	
© 202	0 PCTEST				REV 21.4 M	

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### 1.7 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)

# 1.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	💽 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 8 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Fage 6 01 67
202	DO DOTEST				DEV/21.4 M

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#### 2 LTE INFORMATION

	LTE Information		
Form Factor		Portable Handset	
Frequency Range of each LTE transmission band		TE Band 12 (699.7 - 718	
		TE Band 14 (790.5 - 79	
	LTE	Band 5 (Cell) (824.7 - 8	348.3 MHz)
	LTE B	and 4 (AWS) (1710.7 -	1754.3 MHz)
	LTE B	and 2 (PCS) (1850.7 -	1909.3 MHz)
	LTI	E Band 30 (2307.5 - 23 <sup>2</sup>	12.5 MHz)
Channel Bandwidths	LTE Ban	nd 12: 1.4 MHz, 3 MHz,	5 MHz, 10 MHz
		LTE Band 14: 5 MHz, 1	
	LTE Band	5 (Cell): 1.4 MHz, 3 MH	z, 5 MHz, 10 MHz
	LTE Band 4 (AWS):	1.4 MHz, 3 MHz, 5 MHz	z, 10 MHz, 15 MHz, 20 MHz
			, 10 MHz, 15 MHz, 20 MHz
		LTE Band 30: 5 MHz, 1	0 MHz
Channel Numbers and Frequencies (MHz)	Low	Mid	High
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A
UE Category	IVA	6	IWA
Modulations Supported in UL		QPSK, 16QAM	
LTE MPR Permanently implemented per 3GPP TS			
36.101 section 6.2.3~6.2.5? (manufacturer attestation		YES	
to be provided)		TLS	
. ,			
A-MPR (Additional MPR) disabled for SAR Testing?	The technical desce	YES	
LTE Carrier Aggregation Possible Combinations	The technical descr	combinations	ossible carrier aggregation
LTE Additional Information	This device does not support full CA features on 3GPP Release 11. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 11 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.		

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager			
	Document S/N:	Test Dates:	DUT Type:		Page 9 of 67			
	1M2001200008-01-R1.ZNF	ZNF 01/21/20 – 2/10/20 Portable Handset			Fage 9 01 07			

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# **3** INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

### 3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density ( $\rho$ ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

# Equation 3-1 SAR Mathematical Equation

SAR =	d	$\left( \underline{dU} \right)$	$\underline{d}$	$\left( \frac{dU}{dU} \right)$
5лл –	dt	(dm)	dt	$\left(\frac{dU}{\rho dv}\right)$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 $\sigma$  = conductivity of the tissue-simulating material (S/m)

 $\rho$  = mass density of the tissue-simulating material (kg/m<sup>3</sup>)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:		Daga 10 of 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 10 of 67		
202					DEV/ 21.4 M		

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#### 4 DOSIMETRIC ASSESSMENT

#### 4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

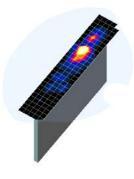


Figure 4-1 Sample SAR Area Scan

09/11/2019

3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).

b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.

c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

	Maximum Area Scan	Maximum Zoom Scan	Max	imum Zoom So Resolution (I		Minimum Zoom Scan	
Frequency	Resolution (mm) (Δx <sub>area</sub> , Δy <sub>area</sub> )		Uniform Grid	rid Graded Grid		Volume (mm) (x,y,z)	
			∆z <sub>zoom</sub> (n)	$\Delta z_{zoom}(1)^*$	Δz <sub>zoom</sub> (n>1)*		
≤ 2 GHz	≤15	≤8	≤5	≤4	≤ 1.5*Δz <sub>zoom</sub> (n-1)	≥ 30	
2-3 GHz	≤12	≤5	≤5	≤4	≤ 1.5*∆z <sub>zoom</sub> (n-1)	≥ 30	
3-4 GHz	≤12	≤ 5	≤4	≤3	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 28	
4-5 GHz	≤ 10	≤ 4	≤3	≤ 2.5	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 25	
5-6 GHz	≤ 10	≤4	≤2	≤2	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥22	

Table 4-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04\*

\*Also compliant to IEEE 1528-2013 Table 6

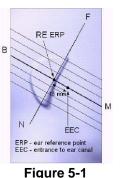
	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	Dates: DUT Type:		Dama 44 at 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 11 of 67		
202	120 PCTEST						

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# 5 DEFINITION OF REFERENCE POINTS

# 5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].



**Close-Up Side view** 

09/11/2019

# 5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Figure 5-3). The acoustic output was than located at the same level as the center of the ear reference point. The test device was positioned so that the "vertical centerline" was bisecting the front surface of the handset at its top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 5-2 Front, back and side view of SAM Twin Phantom

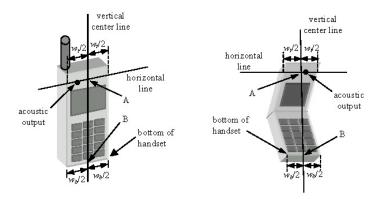


Figure 5-3 Handset Vertical Center & Horizontal Line Reference Points

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:		Dage 10 of 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 12 of 67		
0.202	020 PCTEST						

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# 6 TEST CONFIGURATION POSITIONS

### 6.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\varepsilon$  = 3 and loss tangent  $\delta$  = 0.02.

# 6.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.



Figure 6-1 Front, Side and Top View of Cheek Position

- 2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
- 3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
- 4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical was respect to the line NF.
- 5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

# 6.3 Positioning for Ear / 15° Tilt

With the test device aligned in the "Cheek Position":

- 1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15degrees.
- 2. The phone was then rotated around the horizontal line by 15 degrees.
- 3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates: DUT Type:			Dage 12 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 13 of 67
$n^{-2}$	DOTEST				DEV/21/1 M

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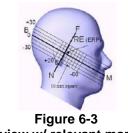


Figure 6-2 Front, Side and Top View of Ear/15<sup>o</sup> Tilt Position

Side view w/ relevant markings

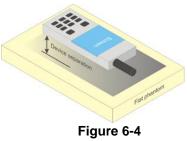
# 6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

# 6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation



Sample Body-Worn Diagram

distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dogo 14 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 14 of 67	
© 202	2020 PCTEST					

REV 21.4 M 09/11/2019

contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

#### 6.6 **Extremity Exposure Configurations**

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

#### 6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W  $\ge$  9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dage 15 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 15 of 67	
202	20 PCTEST				REV 21.4 M	

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# **RF EXPOSURE LIMITS**

#### 7.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

#### 7.2 **Controlled Environment**

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 7-1 SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS					
	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)			
Peak Spatial Average SAR <sub>Head</sub>	1.6	8.0			
Whole Body SAR	0.08	0.4			
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20			

The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over 1. the appropriate averaging time.

The Spatial Average value of the SAR averaged over the whole body. 2

The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and 3. over the appropriate averaging time.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dage 16 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 16 of 67	
202	J20 PCTEST					

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#### 8 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

#### 8.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

#### 8.2 **3G SAR Test Reduction Procedure**

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is  $\leq 0.25$  dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is  $\leq 1.2$  W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

#### 8.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 "3G SAR Measurement Procedures."

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a "point SAR" at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

#### 8.4 SAR Measurement Conditions for UMTS

#### 8.4.1 **Output Power Verification**

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dage 17 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 17 of 67	
202	20 PCTEST				REV 21.4 M	

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# 8.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

# 8.4.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH<sub>n</sub> configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH<sub>n</sub>, for the highest reported SAR configuration in 12.2 kbps RMC.

# 8.4.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

# 8.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Subtest 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

# 8.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

# 8.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates: DUT Type:			Dogo 19 of 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 18 of 67		
202	020 PCTEST						

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# 8.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

# 8.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

### 8.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
  - i. The required channel and offset combination with the highest maximum output power is required for SAR.
  - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
  - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.</p>
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.</p>

### 8.5.5 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive

FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
Document S/N:	Test Dates:	est Dates: DUT Type:		
1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 19 of 67
020 PCTEST				REV 21 / M

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#### 8.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

#### 8.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

#### 8.6.2 **Initial Test Position Procedure**

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is  $\leq 0.4$  W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.

#### 8.6.3 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

#### 8.6.4 **OFDM Transmission Mode and SAR Test Channel Selection**

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth. lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11g then 802.11n, is used for

	FCC ID: ZNFK300AM	<u> PCTEST</u>	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:		Page 20 of 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset	Pag			
202	120 PCTEST						

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SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

### 8.6.5 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is  $\leq 0.8$  W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is  $\leq 1.2$  W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 8.6.4).

# 8.6.6 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is  $\leq 1.2$  W/kg, no additional SAR tests for the subsequent test configurations are required.

	FCC ID: ZNFK300AM	<u>«</u> PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 21 of 67
n'	D DCTEST				DEV/21/1 M

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#### **GSM Conducted Powers** 9.1

	Table 9-1 Maximum Conducted Power							
	Maximum	Burst-Aver	aged Out	put Power	•			
		Voice GPRS/EDGE Data EDGE Data (GMSK) (8-PSK						
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot		
	128	32.66	32.66	31.31	26.85	24.51		
GSM 850	190	32.70	32.70	31.36	26.90	24.60		
	251	32.65	32.69	31.35	27.02	24.69		
	512	30.54	30.40	28.43	26.70	24.67		
GSM 1900	661	30.55	30.59	28.35	26.69	24.55		
	810	30.46	30.56	28.46	26.65	24.57		

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EL (GN	DGE Data ISK)	EDGE Data (8-PSK)					
Band	and Channel		GPRS GPRS [dBm] [dBm] 1 Tx Slot 2 Tx Slot		EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot				
	128	23.63	23.63	25.29	17.82	18.49				
GSM 850	190	23.67	23.67	25.34	17.87	18.58				
	251	23.62	23.66	25.33	17.99	18.67				
	512	21.51	21.37	22.41	17.67	18.65				
GSM 1900	661	21.52	21.56	22.33	17.66	18.53				
	810	21.43	21.53	22.44	17.62	18.55				

GSM 850	Frame Avg.Targets:	23.17	23.17	25.18	18.17	19.18
GSM 1900	Avg.Targets:	21.17	21.17	22.18	17.17	18.18

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 22 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 22 01 67
202	0 PCTEST	•			REV 21.4 M

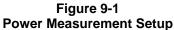
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Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was
  calculated from the measured burst-averaged power by converting the slot powers into linear units and
  calculating the energy over 8 timeslots.
- GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B GPRS Multislot class: 10 (Max 2 Tx uplink slots) EDGE Multislot class: 10 (Max 2 Tx uplink slots) DTM Multislot Class: N/A





	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dawa 00 af 07	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 23 of 67	
n	DO DOTEST				DEV/21.4 M	

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# 9.2 UMTS Conducted Powers

Maximum Conducted Power												
3GPP Release Version	Mode	3GPP 34.121	Cellular Band [dBm]		AWS Band [dBm]		PCS Band [dBm]			MPR [dB]		
		Subtest	4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	25.06	25.11	25.13	24.51	24.54	24.53	24.69	24.64	24.63	-
99	W CDIVIA	12.2 kbps AMR	25.11	25.16	25.09	24.53	24.56	24.53	24.69	24.62	24.65	-
6		Subtest 1	24.20	24.16	24.19	23.70	23.63	23.64	23.70	23.70	23.65	1
6	HSDPA	Subtest 2	24.20	24.11	24.11	23.69	23.58	23.60	23.68	23.64	23.68	1
6	NODFA	Subtest 3	23.70	23.62	23.63	23.18	23.07	23.10	23.18	23.15	23.19	1.5
6		Subtest 4	23.68	23.61	23.62	23.18	23.07	23.08	23.17	23.13	23.17	1.5
6		Subtest 1	22.06	21.98	21.98	21.67	21.53	21.58	21.70	21.62	21.63	3
6		Subtest 2	22.05	21.99	21.96	21.66	21.55	21.56	21.70	21.61	21.65	3
6	HSUPA	Subtest 3	23.03	22.95	22.95	22.66	22.56	22.58	22.67	22.62	22.64	2
6	1	Subtest 4	21.57	21.49	21.50	21.20	21.09	21.12	21.20	21.17	21.20	3.5
6		Subtest 5	23.00	22.90	22.92	22.66	22.55	22.56	22.69	22.61	22.62	2

Table 9-2 Maximum Conducted Power

This device does not support DC-HSDPA.



Figure 9-2 Power Measurement Setup

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager				
	Document S/N:	Test Dates:	DUT Type:		Dage 24 of 67				
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 24 of 67				
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#### **LTE Conducted Powers** 9.3

#### 9.3.1 LTE Band 12

			LTE Band 12 10 MHz Bandwidth				
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power	MPR Allowed per 3GPP [dB]	MPR [dB]		
			[dBm]				
	1	0	24.37		0		
-	1	25	24.55	0	0		
	1	49	24.38		0		
QPSK	25	0	23.45		1		
	25	12	23.44	0-1	1		
	25	25	23.47	0-1	1		
	50	0	23.46		1		
	1	0	23.69		1		
	1	25	23.84	0-1	1		
	1	49	23.66		1		
16QAM	25	0	22.51		2		
	25	12	22.50	0-2	2		
	25	25	22.51	0-2	2		
	50	0	22.51		2		

# Table 9-3

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 9-4
LTE Band 12 Conducted Powers - 5 MHz Bandwidth

				LTE Band 12	e iniz Banan					
				5 MHz Bandwidth						
Low Channel Mid Channel High Channel										
Modulation	RB Size	RB Offset	23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]			
			(	Conducted Power [dBm	]					
	1	0	24.37	24.19	24.36		0			
	1	12	24.39	24.42	24.51	0	0			
	1	24	24.12	24.36	24.35	]	0			
QPSK	12	0	23.25	23.33	23.44		1			
	12	6	23.35	23.36	23.32	- 0-1	1			
	12	13	23.37	23.35	23.30	0-1	1			
	25	0	23.28	23.30	23.34		1			
	1	0	23.36	23.10	23.71		1			
	1	12	23.49	23.34	23.95	0-1	1			
	1	24	23.40	23.40	23.70	] [	1			
16QAM	12	0	22.38	22.36	22.34		2			
	12	6	22.46	22.39	22.38	0-2	2			
	12	13	22.31	22.38	22.27		2			
	25	0	22.35	22.39	22.31	] Γ	2			

	FCC ID: ZNFK300AM	CTEST	SAR EVALUATION REPORT	LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Page 25 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	2/10/20 Portable Handset		Fage 25 01 07	
202	0 PCTEST	•			REV 21.4 M	

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	LTE Band 12 3 MHz Bandwidth										
			Low Channel	Mid Channel	High Channel						
Modulation	RB Size	RB Offset	23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]				
			(	Conducted Power [dBm	]						
	1	0	24.51	24.54	24.47		0				
	1	7	24.70	24.72	24.64	0	0				
	1	14	24.61	24.53	24.50		0				
QPSK	8	0	23.58	23.62	23.61		1				
	8	4	23.67	23.64	23.66	0-1	1				
	8	7	23.64	23.58	23.59		1				
	15	0	23.65	23.58	23.55		1				
	1	0	23.96	23.44	23.27		1				
	1	7	24.11	23.60	23.44	0-1	1				
	1	14	23.96	23.45	23.26		1				
16QAM	8	0	22.79	22.65	22.52		2				
	8	4	22.85	22.68	22.63	0-2	2				
	8	7	22.81	22.64	22.53	0-2	2				
	15	0	22.72	22.64	22.49		2				

Table 9-5 LTE Band 12 Conducted Powers - 3 MHz Bandwidth

Table 9-6 LTE Band 12 Conducted Powers -1.4 MHz Bandwidth

	LTE Band 12									
	1.4 MHz Bandwidth									
			Low Channel	Mid Channel	High Channel					
Modulation	RB Size	RB Offset	23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]			
			(	Conducted Power [dBm	]					
	1	0	24.42	24.47	24.59		0			
	1	2	24.51	24.54	24.72	]	0			
	1	5	24.46	24.48	24.63	0	0			
QPSK	3	0	24.65	24.56	24.60		0			
	3	2	24.70	24.61	24.65		0			
	3	3	24.68	24.56	24.61		0			
	6	0	23.59	23.56	23.63	0-1	1			
	1	0	23.34	23.83	23.30		1			
	1	2	23.39	23.95	23.40	]	1			
	1	5	23.35	23.84	23.33	0-1	1			
16QAM	3	0	23.72	23.82	23.62		1			
	3	2	23.76	23.85	23.68		1			
	3	3	23.76	23.86	23.64		1			
	6	0	22.86	22.47	22.74	0-2	2			

FCC ID: ZNFK300AM	<u>PCTEST</u>	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:		Dama 20 of 67
1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 26 of 67
20 PCTEST				REV 21 4 M

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#### LTE Band 14 9.3.2

	LTE Band 14 Conducted Powers - 10 MHz Bandwidth								
			LTE Band 14						
			10 MHz Bandwidth						
			Mid Channel						
Modulation	RB Size	RB Offset	23330 (793.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]				
			Conducted Power [dBm]						
	1	0	24.36		0				
	1	25	24.54	0	0				
	1	49	24.38		0				
QPSK	25	0	23.39	0-1	1				
	25	12	23.48		1				
	25	25	23.45	0-1	1				
	50	0	23.43		1				
	1	0	23.30		1				
	1	25	23.50	0-1	1				
	1	49	23.37		1				
16QAM	25	0	22.59		2				
	25	12	22.55	0-2	2				
	25	25	22.57	0-2	2				
	50	0	22.43		2				

Table 9-7

	FCC ID: ZNFK300AM	CTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 27 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 27 of 67
202	0 PCTEST				REV 21 / M

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	LTE Band 14 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]				
	1	0	24.28		0				
	1	12	24.38	0	0				
	1	24	24.18		0				
QPSK	12	0	23.30		1				
	12	6	23.42	0-1	1				
	12	13	23.35	0-1	1				
	25	0	23.33		1				
	1	0	23.37		1				
	1	12	23.62	0-1	1				
	1	24	23.33		1				
16QAM	12	0	22.36		2				
	12	6	22.45	0-2	2				
	12	13	22.40	0-2	2				
	25	0	22.35		2				

Table 9-8 TE Devide 

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 29 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 28 of 67
202	0 PCTEST				REV 21.4 M

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#### LTE Band 5 (Cell) 9.3.3

LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth								
			LTE Band 5 (Cell)					
		1	10 MHz Bandwidth					
			Mid Channel					
Modulation	RB Size	RB Offset	20525 (836.5 MHz)	MPR Allowed per - 3GPP [dB]	MPR [dB]			
			Conducted Power					
			[dBm]					
	1	0	24.30		0			
	1	25	24.43	0	0			
	1	49	24.32		0			
QPSK	25	0	23.43		1			
	25	12	23.50	0-1	1			
	25	25	23.44	0-1	1			
	50	0	23.45		1			
	1	0	23.19		1			
	1	25	23.33	0-1	1			
	1	49	23.17		1			
16QAM	25	0	22.58		2			
	25	12	22.60	0-2	2			
	25	25	22.55	0-2	2			
	50	0	22.51		2			

Table 9-9

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

		LTE	Band 5 (Cell) C	onducted Powe	rs - 5 MHz Ban	dwidth			
				LTE Band 5 (Cell)					
		1	Law Channel	5 MHz Bandwidth	Llink Channel	1			
Modulation	RB Size	RB Size	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Conducted Power [dBm	]				
	1	0	24.33	24.36	24.23		0		
	1	12	24.53	24.56	24.50	0	0		
	1	24	24.27	24.34	24.17		0		
QPSK	12	0	23.43	23.40	23.44		1		
	12	6	23.48	23.44	23.49		1		
	12	13	23.41	23.37	23.35	0-1	1		
	25	0	23.40	23.40	23.46		1		
	1	0	23.35	23.96	23.35		1		
	1	12	23.50	24.18	23.62	0-1	1		
	1	24	23.31	23.89	23.35		1		
16QAM	12	0	22.45	22.52	22.48		2		
	12	6	22.52	22.53	22.49	0-2	2		
	12	13	22.43	22.49	22.41	0-2	2		
	25	0	22.42	22.50	22.40		2		

Table 9-10

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 20 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 29 of 67
202	0 PCTEST	•	•		REV 21.4 M

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				LTE Band 5 (Cell) 3 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Conducted Power [dBm			
	1	0	24.38	24.37	24.31	0	0
	1	7	24.52	24.40	24.41		0
	1	14	24.31	24.25	24.30		0
QPSK	8	0	23.35	23.39	23.43	- 0-1	1
	8	4	23.41	23.41	23.44		1
	8	7	23.38	23.34	23.40	0-1	1
	15	0	23.39	23.35	23.42		1
	1	0	23.79	23.36	23.32		1
	1	7	23.89	23.45	23.32	0-1	1
	1	14	23.82	23.27	23.14		1
16QAM	8	0	22.48	22.44	22.39		2
	8	4	22.54	22.47	22.42	0-2	2
	8	7	22.47	22.39	22.36		2
	15	0	22.39	22.42	22.38	] Γ	2

Table 9-11 I TE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth

Table 9-12 LTE Band 5 (Cell) Conducted Powers -1.4 MHz Bandwidth

	LTE Band 5 (Cell) 1.4 MHz Bandwidth								
			Low Channel	Mid Channel	High Channel				
Modulation	RB Size	RB Offset	20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
			(	Conducted Power [dBm	]				
	1	0	24.32	24.42	24.40		0		
	1	2	24.43	24.49	24.36	] [	0		
	1	5	24.38	24.42	24.25	0	0		
QPSK	3	0	24.49	24.41	24.43		0		
	3	2	24.47	24.43	24.51		0		
	3	3	24.46	24.43	24.44	]	0		
	6	0	23.41	23.41	23.48	0-1	1		
	1	0	23.76	23.21	23.35		1		
	1	2	23.86	23.27	23.21	] [	1		
	1	5	23.75	23.21	23.37		1		
16QAM	3	0	23.72	23.56	23.51	- 0-1	1		
	3	2	23.75	23.60	23.55	1	1		
	3	3	23.75	23.55	23.54	1	1		
	6	0	22.41	22.64	22.61	0-2	2		

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 30 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Fage 50 01 07
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# 9.3.4 LTE Band 4 (AWS)

	LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth								
			LTE Band 4 (AWS) 20 MHz Bandwidth						
			Mid Channel						
			20175	•					
Modulation	RB Size	RB Offset	RB Offset (1732 5 MHz) MPR A	MPR Allowed per 3GPP [dB]	MPR [dB]				
			Conducted Power [dBm]						
	1	0	24.19		0				
	1	50	24.53	0	0				
	1	99	24.25		0				
QPSK	50	0	23.30		1				
	50	25	23.35	0-1	1				
	50	50	23.24		1				
	100	0	23.28		1				
	1	0	23.43		1				
	1	50	23.65	0-1	1				
	1	99	23.38		1				
16QAM	50	0	22.33		2				
	50	25	22.38	0-2	2				
	50	50	22.26	] 0-2	2				
	100	0	22.31	]	2				

Table 9-13 LTE Band 4 (AWS) Conducted Powers - 20 MHz Bandwidth

Note: LTE Band 4 (AWS) at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 9-14	
LTE Band 4 (AWS) Conducted Powers - 15 MHz Bandwidth	
LTE Band 4 (AWS)	
15 MUz Dandwidth	

	LTE Band 4 (AWS) 15 MHz Bandwidth										
			Low Channel	Mid Channel	High Channel						
Modulation	RB Size	RB Offset	20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]				
			Conducted Power [dBm]								
	1	0	24.27	24.20	24.34		0				
	1	36	24.32	24.28	24.40	0	0				
	1	74	24.27	24.29	24.24		0				
QPSK	36	0	23.41	23.42	23.34	0-1	1				
	36	18	23.44	23.45	23.36		1				
	36	37	23.43	23.38	23.33		1				
	75	0	23.45	23.41	23.36		1				
	1	0	23.64	23.18	23.20		1				
	1	36	23.68	23.25	23.30	0-1	1				
	1	74	23.58	23.13	23.30		1				
16QAM	36	0	22.45	22.41	22.31		2				
	36	18	22.43	22.41	22.36	0-2	2				
	36	37	22.43	22.37	22.28		2				
	75	0	22.48	22.36	22.32		2				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dama 24 of 67
	1M2001200008-01-R1.ZNF	01/21/20 – 2/10/20 Portable Handset			Page 31 of 67
1 202	0 DOTEST				DEV/21.4 M

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LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth										
	LTE Band 4 (AWS)									
	10 MHz Bandwidth									
			Low Channel	Mid Channel	High Channel					
Modulation	RB Size	RB Offset	20000	20175	20350	MPR Allowed per	MPR [dB]			
modulation	112 0120		(1715.0 MHz)	(1732.5 MHz)	(1750.0 MHz)	3GPP [dB]	in it [ab]			
			(	Conducted Power [dBm	j					
	1	0	24.30	24.22	24.28	0	0			
	1	25	24.47	24.42	24.33		0			
	1	49	24.24	24.25	24.23		0			
QPSK	25	0	23.34	23.34	23.38	0-1	1			
	25	12	23.41	23.35	23.30		1			
	25	25	23.37	23.27	23.23		1			
	50	0	23.38	23.32	23.28		1			
	1	0	23.66	23.16	23.35		1			
	1	25	23.69	23.38	23.37	0-1	1			
	1	49	23.60	23.16	23.30		1			
16QAM	25	0	22.44	22.44	22.50		2			
	25	12	22.47	22.47	22.47	0-2	2			
	25	25	22.50	22.45	22.36		2			
	50	0	22.41	22.36	22.38		2			

Table 9-15 LTE Band 4 (AWS) Conducted Powers - 10 MHz Bandwidth

Table 9-16 LTE Band 4 (AWS) Conducted Powers - 5 MHz Bandwidth

	LTE Band 4 (AWS) 5 MHz Bandwidth										
			Low Channel	Mid Channel	High Channel						
Modulation	RB Size	RB Offset	19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]				
			(	Conducted Power [dBm	]						
	1	0	24.36	24.32	24.29		0				
	1	12	24.51	24.36	24.41	0	0				
	1	24	24.29	24.37	24.39		0				
QPSK	12	0	23.35	23.27	23.28	0-1	1				
	12	6	23.37	23.34	23.33		1				
	12	13	23.33	23.26	23.25		1				
	25	0	23.32	23.29	23.22		1				
	1	0	23.70	23.24	23.31		1				
	1	12	23.69	23.46	23.30	0-1	1				
	1	24	23.65	23.26	23.27		1				
16QAM	12	0	22.39	22.36	22.38		2				
	12	6	22.47	22.41	22.39	0-2	2				
	12	13	22.41	22.35	22.31		2				
	25	0	22.40	22.29	22.28		2				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 32 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Fage 32 01 07
© 202	0 PCTEST				REV 21.4 M

LTE Band 4 (AWS) Conducted Powers - 3 MHZ Bandwidth										
	LTE Band 4 (AWS)									
3 MHz Bandwidth										
			Low Channel Mid Channel High Channel							
Modulation	RB Size	RB Offset	19965	20175	20385 (1753.5 MHz)	MPR Allowed per	MPR [dB]			
wouldtion	ND SIZE	KB Oliset	(1711.5 MHz)	(1732.5 MHz)		3GPP [dB]	ואורת נטטן			
			(	Conducted Power [dBm	]					
	1	0	24.35	24.28	24.32		0			
	1	7	24.42	24.34	24.30	0	0			
	1	14	24.22	24.26	24.37		0			
QPSK	8	0	23.35	23.30	23.26	- 0-1	1			
	8	4	23.33	23.35	23.29		1			
	8	7	23.29	23.27	23.27		1			
	15	0	23.27	23.28	23.24		1			
	1	0	23.66	23.21	23.35		1			
	1	7	23.68	23.29	23.32	0-1	1			
	1	14	23.62	23.13	23.40		1			
16QAM	8	0	22.45	22.35	22.23		2			
	8	4	22.52	22.39	22.28	0-2	2			
	8	7	22.38	22.34	22.23		2			
	15	0	22.32	22.35	22.25		2			

Table 9-17 I TE Band 4 (AWS) Conducted Powers - 3 MHz Bandwidth

Table 9-18 LTE Band 4 (AWS) Conducted Powers -1.4 MHz Bandwidth

			Low Channel	1.4 MHz Bandwidth Mid Channel	High Channel		
Modulation	RB Size	RB Offset	19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Conducted Power [dBm	]		
	1	0	24.35	24.25	24.27	0	0
	1	2	24.28	24.23	24.34		0
	1	5	24.41	24.39	24.26		0
QPSK	3	0	24.30	24.26	24.28		0
	3	2	24.40	24.30	24.31		0
	3	3	24.31	24.31	24.29		0
	6	0	23.37	23.25	23.24	0-1	1
	1	0	23.50	23.55	23.57		1
	1	2	23.51	23.62	23.55	1 [	1
	1	5	23.44	23.52	23.48	0-1	1
16QAM	3	0	23.32	23.51	23.35		1
	3	2	23.34	23.52	23.39		1
	3	3	23.32	23.55	23.37		1
	6	0	22.46	22.27	22.46	0-2	2

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dogo 22 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 33 of 67
© 202	0 PCTEST				REV 21.4 M

#### 9.3.5 LTE Band 2 (PCS)

LTE Band 2 (PCS) 20 MHz Bandwidth									
			Low Channel	Mid Channel	High Channel				
Modulation	RB Size	RB Offset	18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
				Conducted Power [dBm	]				
	1	0	24.33	24.31	24.32	0	0		
	1	50	24.56	24.62	24.59		0		
QPSK	1	99	24.29	24.26	24.40		0		
	50	0	23.39	23.48	23.45	0-1	1		
	50	25	23.45	23.45	23.44		1		
	50	50	23.42	23.37	23.39		1		
	100	0	23.42	23.47	23.46		1		
	1	0	23.57	23.58	23.47		1		
	1	50	23.43	23.60	23.40	0-1	1		
	1	99	23.52	23.50	23.40		1		
16QAM	50	0	22.46	22.52	22.48		2		
	50	25	22.52	22.51	22.47	0-2	2		
	50	50	22.55	22.37	22.44		2		
	100	0	22.50	22.48	22.50	Γ	2		

Table 9-19 LTE Band 2 (PCS) Conducted Powers - 20 MHz Bandwidth

Table 9-20 LTE Band 2 (PCS) Conducted Powers - 15 MHz Bandwidth

	LTE Band 2 (PCS) 15 MHz Bandwidth									
			Low Channel	Mid Channel	High Channel					
Modulation	RB Size	RB Offset	18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]			
			(	Conducted Power [dBm	]					
	1	0	24.25	24.23	24.42	0	0			
	1	36	24.27	24.28	24.51		0			
	1	74	24.25	24.23	24.42		0			
QPSK	36	0	23.42	23.51	23.52	0-1	1			
	36	18	23.41	23.49	23.50		1			
	36	37	23.46	23.44	23.50		1			
	75	0	23.42	23.45	23.52		1			
	1	0	23.66	23.16	23.68		1			
	1	36	23.70	23.25	23.69	0-1	1			
	1	74	23.62	23.08	23.46		1			
16QAM	36	0	22.67	22.48	22.45		2			
	36	18	22.48	22.43	22.49	0-2	2			
	36	37	22.46	22.36	22.43		2			
	75	0	22.45	22.44	22.48		2			

FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:		D 04 (07
1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 34 of 67
20 PCTEST				REV 21.4 M 09/11/2019

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LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth								
LTE Band 2 (PCS)								
10 MHz Bandwidth								
			Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation	RB Size	RB Offset	18650	18900 (1880.0 MHz)	19150 (1905.0 MHz)			
			(1855.0 MHz)					
			(	Conducted Power [dBm	]			
	1	0	24.29	24.38	24.39		0	
	1	25	24.42	24.49	24.63	0	0	
	1	49	24.38	24.34	24.53		0	
QPSK	25	0	23.42	23.46	23.49	0-1	1	
	25	12	23.40	23.46	23.51		1	
	25	25	23.47	23.39	23.44		1	
	50	0	23.42	23.45	23.49		1	
	1	0	23.40	23.69	23.29	0-1	1	
	1	25	23.59	23.70	23.49		1	
	1	49	23.32	23.67	23.15		1	
16QAM	25	0	22.59	22.50	22.57		2	
	25	12	22.57	22.56	22.59	0-2	2	
	25	25	22.65	22.46	22.53	0-2	2	
	50	0	22.59	22.51	22.53		2	

# Table 9-21 LTE Band 2 (PCS) Conducted Powers - 10 MHz Bandwidth

 Table 9-22

 LTE Band 2 (PCS) Conducted Powers - 5 MHz Bandwidth

	RB Size	RB Offset	Low Channel	Mid Channel	High Channel		
Modulation			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			(	Conducted Power [dBm	]		
	1	0	24.27	24.31	24.24		0
	1	12	24.44	24.48	24.50	0	0
	1	24	24.27	24.30	24.38		0
QPSK	12	0	23.32	23.35	23.43	0-1	1
	12	6	23.39	23.40	23.42		1
	12	13	23.35	23.34	23.38		1
	25	0	23.34	23.35	23.36		1
	1	0	23.40	23.70	23.68	0-1	1
	1	12	23.58	23.65	23.64		1
	1	24	23.37	23.69	23.35		1
16QAM	12	0	22.40	22.53	22.52		2
	12	6	22.49	22.54	22.52		2
	12	13	22.44	22.50	22.49		2
	25	0	22.36	22.45	22.44		2

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Page 35 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Fage 55 01 07	
© 202	0 PCTEST				REV 21.4 M	

REV 21.4 M 09/11/2019

LTE Band 2 (PCS) CONducted Powers - 3 MHZ Bandwidth LTE Band 2 (PCS) 3 MHz Bandwidth								
			Low Channel					
Modulation	RB Size	RB Offset	18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
				Conducted Power [dBm	]			
	1	0	24.30	24.46	24.32		0	
	1	7	24.42	24.48	24.47	0	0	
	1	14	24.31	24.34	24.28		0	
QPSK	8	0	23.35	23.38	23.33	0-1	1	
	8	4	23.38	23.44	23.35		1	
	8	7	23.38	23.36	23.35		1	
	15	0	23.33	23.36	23.34		1	
	1	0	23.67	23.24	23.70	0-1	1	
	1	7	23.68	23.33	23.69		1	
	1	14	23.66	23.17	23.67		1	
16QAM	8	0	22.50	22.50	22.45		2	
	8	4	22.49	22.52	22.54	0-2	2	
	8	7	22.46	22.45	22.48	- 0-2	2	
	15	0	22.43	22.40	22.42		2	

Table 9-23 I TE Band 2 (PCS) Conducted Powers - 3 MHz Bandwidth

Table 9-24 LTE Band 2 (PCS) Conducted Powers -1.4 MHz Bandwidth TE Band 2 (DCS

1.4 MHz Bandwidth							
			Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			(	Conducted Power [dBm	]		
	1	0	24.33	24.36	24.63		0
	1	2	24.49	24.55	24.69	0	0
	1	5	24.34	24.44	24.70		0
QPSK	3	0	24.52	24.46	24.53		0
	3	2	24.61	24.53	24.57		0
	3	3	24.55	24.55	24.48		0
	6	0	23.50	23.55	23.68	0-1	1
	1	0	23.40	23.65	23.38	0-1	1
	1	2	23.48	23.70	23.48		1
	1	5	23.43	23.68	23.35		1
16QAM	3	0	23.61	23.65	23.44		1
	3	2	23.64	23.62	23.40		1
	3	3	23.66	23.63	23.38		1
	6	0	22.61	22.42	22.63	0-2	2

	FCC ID: ZNFK300AM		SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Da	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 36 of 67	
02	20 PCTEST				REV 21.4 M	

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#### LTE Band 30 9.3.6

LTE Band 30 Conducted Powers - 10 MHz Bandwidth									
	LTE Band 30 10 MHz Bandwidth								
			Mid Channel						
	<b></b>		27710	MPR Allowed per					
Modulation	RB Size	RB Offset	(2310.0 MHz)	3GPP [dB]	MPR [dB]				
			Conducted Power						
			[dBm]						
	1	0	23.68		0				
	1	25	23.84	0	0				
	1	49	23.67		0				
QPSK	25	0	22.73		1				
	25	12	22.76	0-1	1				
	25	25	22.63		1				
	50	0	22.71		1				
	1	0	22.61		1				
	1	25	22.83	0-1	1				
	1	49	22.60		1				
16QAM	25	0	21.90		2				
	25	12	21.94	0-2	2				
	25	25	21.86		2				
	50	0	21.87		2				

Table 9-25

	FCC ID: ZNFK300AM	CTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 37 of 67
202	0 PCTEST				REV 21.4 M 09/11/2019

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LTE Band 30 Conducted Powers - 5 MHz Bandwidth LTE Band 30									
	5 MHz Bandwidth								
			Mid Channel						
			27710	MPR Allowed per					
Modulation	RB Size	RB Offset	(2310.0 MHz)	3GPP [dB]	MPR [dB]				
			Conducted Power						
			[dBm]						
	1	0	23.45		0				
	1	12	23.77	0	0				
	1	24	23.50		0				
QPSK	12	0	22.55		1				
	12	6	22.66	0-1	1				
	12	13	22.61		1				
	25	0	22.62		1				
	1	0	22.67		1				
	1	12	22.99	0-1	1				
	1	24	22.66		1				
16QAM	12	0	21.78		2				
	12	6	21.83	0-2	2				
	12	13	21.74	0-2	2				
	25	0	21.72		2				

Table 9-26 C 8411-..... . . . .

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.



Figure 9-3 **Power Measurement Setup** 

	FCC ID: ZNFK300AM		SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager		
	Document S/N: Test Dates:		DUT Type:		Dage 20 of 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 38 of 67		
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# 9.4 WLAN Conducted Powers

2.4GHz Conducted Power [dBm]						
		IEEE Transmission Mode				
Freq [MHz]	Channel	802.11b	802.11g	802.11n		
		Average	Average	Average		
2412	1	18.45	15.34	14.95		
2437	6	18.47	17.95	17.39		
2462	11	18.43	14.94	14.38		

# Table 9-27 2.4 GHz WLAN Maximum Average RF Power

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

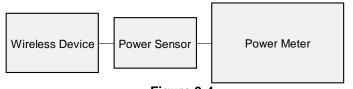


Figure 9-4 Power Measurement Setup

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N: Test Dates:		DUT Type:		Da as 20 st 07
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 39 of 67
202	0 PCTEST				REV 21.4 M

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#### **Bluetooth Conducted Powers** 9.5

	uetooth Av Data	Channel	Avg Conducted Power		
Frequency [MHz]	Rate [Mbps]	Channel No.	[dBm]	[mW]	
2402	1.0	0	8.27	6.715	
2441	1.0	39	9.83	9.621	
2480	1.0	78	8.12	6.491	
2402	2.0	0	8.09	6.441	
2441	2.0	39	9.29	8.490	
2480	2.0	78	7.90	6.169	
2402	3.0	0	8.14	6.514	
2441	3.0	39	9.34	8.586	
2480	3.0	78	7.93	6.211	

Table 9-28

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager			
	Document S/N: Test Dates: DUT Type:				Page 40 of 67			
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Fage 40 01 67			
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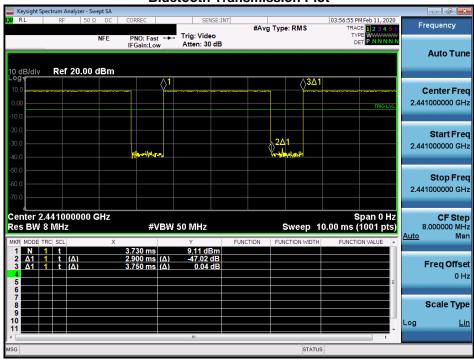
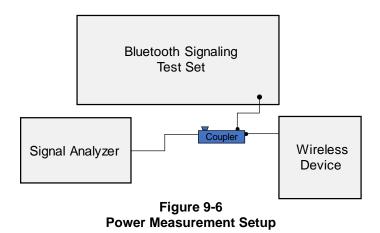


Figure 9-5 Bluetooth Transmission Plot

Equation 9-1 Bluetooth Duty Cycle Calculation

 $Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.900ms}{3.750ms} * 100\% = 77.3\%$ 



	FCC ID: ZNFK300AM		SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N: Test Dates:		DUT Type:		Dara 44 at 07
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 41 of 67
1202	DO DOTEST				DEV/21/1 M

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# 10.1 Tissue Verification

Measured Tissue Properties										
Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε	
			680	0.859	41.552	0.888	42.305	-3.27%	-1.78%	
			695	0.864	41.516	0.889	42.227	-2.81%	-1.68%	
			700	0.866	41.503	0.889	42.201	-2.59%	-1.65%	
			710	0.869	41.476	0.890	42.149	-2.36%	-1.60%	
			725	0.874	41.424	0.891	42.071	-1.91%	-1.54%	
02/05/2020	750 Head	20.6	740	0.879	41.363	0.893	41.994	-1.57%	-1.50%	
			750	0.883	41.320	0.894	41.942	-1.23%	-1.48%	
			755	0.884	41.304	0.894	41.916	-1.12%	-1.46%	
			770	0.889	41.260	0.895	41.838	-0.67%	-1.38%	
			785	0.895	41.214	0.896	41.760	-0.11%	-1.31%	
			800	0.900	41.170	0.897	41.682	0.33%	-1.23%	
			820	0.911	40.105	0.899	41.578	1.33%	-3.54%	
2/9/2020	835 Head	20.5	835	0.916	40.063	0.900	41.500	1.78%	-3.46%	
			850	0.922	40.024	0.916	41.500	0.66%	-3.56%	
	1750 Head			1710	1.339	39.978	1.348	40.142	-0.67%	-0.41%
		750 Head 20.8	1720	1.346	39.960	1.354	40.126	-0.59%	-0.41%	
01/20/2020			1745	1.361	39.922	1.368	40.087	-0.51%	-0.41%	
01/29/2020			1750	1.364	39.913	1.371	40.079	-0.51%	-0.41%	
			1770	1.375	39.880	1.383	40.047	-0.58%	-0.42%	
			1790	1.385	39.842	1.394	40.016	-0.65%	-0.43%	
			1850	1.405	39.288	1.400	40.000	0.36%	-1.78%	
			1860	1.412	39.273	1.400	40.000	0.86%	-1.82%	
02/03/2020	1900 Head	19.4	1880	1.424	39.245	1.400	40.000	1.71%	-1.89%	
02/03/2020	1900 Heau	19.4	1900	1.436	39.218	1.400	40.000	2.57%	-1.95%	
			1905	1.439	39.212	1.400	40.000	2.79%	-1.97%	
			1910	1.442	39.204	1.400	40.000	3.00%	-1.99%	
			2300	1.693	41.215	1.670	39.500	1.38%	4.34%	
01/30/2020	2450 Head	21.0	2310	1.700	41.202	1.679	39.480	1.25%	4.36%	
			2320	1.707	41.189	1.687	39.460	1.19%	4.38%	
			2400	1.788	38.896	1.756	39.289	1.82%	-1.00%	
2/5/2020	2450 Head	22.5	2450	1.823	38.835	1.800	39.200	1.28%	-0.93%	
			2500	1.857	38.769	1.855	39.136	0.11%	-0.94%	
			2400	1.806	39.657	1.756	39.289	2.85%	0.94%	
02/08/2020	2400 Head	21.5	2450	1.847	39.584	1.800	39.200	2.61%	0.98%	
			2500	1.886	39.514	1.855	39.136	1.67%	0.97%	

Table 10-1	
<b>Measured Tissue Prop</b>	perties

	FCC ID: ZNFK300AM	<u>CAPCTEST</u>	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates: DUT Type:			Dege 42 of 67		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 42 of 67		
202	2020 PCTEST						

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev a
			680	0.932	53.185	0.958	55.804	-2.71%	-4.69%
			695	0.937	53.148	0.959	55.745	-2.29%	-4.66%
			700	0.938	53.136	0.959	55.726	-2.19%	-4.65%
			710	0.942	53.111	0.960	55.687	-1.88%	-4.63%
			725	0.947	53.071	0.961	55.629	-1.46%	-4.60%
01/29/2020	750 Body	19.6	740	0.953	53.023	0.963	55.570	-1.04%	-4.58%
			750	0.957	52.993	0.964	55.531	-0.73%	-4.57%
			755	0.959	52.980	0.964	55.512	-0.52%	-4.56%
			770	0.964	52.935	0.965	55.453	-0.10%	-4.54%
			785	0.971	52.894	0.966	55.395	0.52%	-4.519
			800	0.977	52.858	0.967	55.336	1.03%	-4.489
			680	0.913	56.667	0.958	55.804	-4.70%	1.55%
			695	0.918	56.637	0.959	55.745	-4.28%	1.60%
			700	0.919	56.626	0.959	55.726	-4.17%	1.62%
			710	0.922	56.605	0.960	55.687	-3.96%	1.65%
			725	0.927	56.571	0.961	55.629	-3.54%	1.69%
01/31/2020	750 Body	22.0	740	0.932	56.534	0.963	55.570	-3.22%	1.73%
01/01/2020	700 Dody	22.0	740	0.935	56.507	0.964	55.531	-3.01%	1.76%
			755	0.937	56.493	0.964	55.512	-2.80%	1.77%
				0.942	56.452	0.965	55.453	-2.38%	1.80%
			770	0.948	56.416	0.966	55.395	-1.86%	1.84%
			785	0.948	56.387	0.960	55.336	-1.34%	1.90%
			800	0.934	54.407	0.967	55.258	-1.34%	-1.54%
01/23/2020	835 Body	21.6	820	0.945	54.407	0.969	55.200	-2.48%	-1.54%
01/23/2020	835 BODy	21.0	835						
			850	0.958	54.320	0.988	55.154	-3.04%	-1.51%
01/27/2020			820	0.962	53.196	0.969	55.258	-0.72%	-3.73%
	835 Body	19.8	835	0.969	53.145	0.970	55.200	-0.10%	-3.729
			850	0.976	53.102	0.988	55.154	-1.21%	-3.729
	835 Body	21.0	820	0.944	54.604	0.969	55.258	-2.58%	-1.18%
01/31/2020			835	0.961	54.458	0.970	55.200	-0.93%	-1.349
			850	0.976	54.299	0.988	55.154	-1.21%	-1.55%
			1710	1.445	55.236	1.463	53.537	-1.23%	3.17%
			1720	1.457	55.198	1.469	53.511	-0.82%	3.15%
02/10/2020	1750 Body	20.5	1745	1.486	55.118	1.485	53.445	0.07%	3.13%
			1750	1.492	55.102	1.488	53.432	0.27%	3.13%
			1770	1.514	55.031	1.501	53.379	0.87%	3.09%
			1790	1.536	54.961	1.514	53.326	1.45%	3.07%
			1850	1.522	52.071	1.520	53.300	0.13%	-2.319
			1860	1.533	52.035	1.520	53.300	0.86%	-2.37%
01/21/2020	1900 Body	22.5	1880	1.554	51.971	1.520	53.300	2.24%	-2.49%
0.12.112.02.0	1000 2003	22.0	1900	1.576	51.912	1.520	53.300	3.68%	-2.60%
			1905	1.581	51.897	1.520	53.300	4.01%	-2.63%
			1910	1.587	51.882	1.520	53.300	4.41%	-2.66%
			1850	1.496	51.681	1.520	53.300	-1.58%	-3.04%
			1860	1.507	51.650	1.520	53.300	-0.86%	-3.10%
01/27/2020	1900 Body	24.2	1880	1.529	51.580	1.520	53.300	0.59%	-3.23
5.72172020		27.2	1900	1.551	51.507	1.520	53.300	2.04%	-3.36%
			1905	1.556	51.488	1.520	53.300	2.37%	-3.40
			1910	1.561	51.469	1.520	53.300	2.70%	-3.449
			1850	1.481	52.957	1.520	53.300	-2.57%	-0.649
			1860	1.492	52.927	1.520	53.300	-1.84%	-0.709
02/09/2020	1900 Body	22.7	1880	1.514	52.868	1.520	53.300	-0.39%	-0.81
02/09/2020	1900 Body	22.1	1900	1.536	52.801	1.520	53.300	1.05%	-0.949
			1905	1.542	52.784	1.520	53.300	1.45%	-0.97
			1910	1.547	52.769	1.520	53.300	1.78%	-1.00
			2300	1.843	52.053	1.809	52.900	1.88%	-1.60
			2310	1.856	52.019	1.816	52.887	2.20%	-1.64
04/07/2222	0450 5	ov -	2320	1.869	51.985	1.826	52.873	2.35%	-1.689
01/27/2020	2450 Body	21.5	2400	1.974	51.690	1.902	52.767	3.79%	-2.049
			2450	2.043	51.497	1.950	52.700	4.77%	-2.289
		1	2500	2.112	51.296	2.021	52.636	4.50%	-2.559

### Table 10-2 **Measured Tissue Properties Continued**

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 42 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 43 of 67
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# 10.2 Test System Verification

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

				0,	ystem v							
						ystem Ve RGET & M						
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN		Measured SAR1g (W/kg)	1 W Target SAR <sub>1g</sub> (W/kg)	1 W Normalized SAR1g (W/kg)	Deviation <sub>1g</sub> (%)
L	750	HEAD	02/05/2020	22.3	20.6	0.200	1161	7410	1.740	8.030	8.700	8.34%
L	835	HEAD	02/09/2020	21.4	20.5	0.200	4d133	7410	2.030	9.430	10.150	7.64%
D	1750	HEAD	01/29/2020	21.7	20.8	0.100	1008	3914	3.830	36.200	38.300	5.80%
L	1900	HEAD	02/03/2020	21.9	19.4	0.100	5d148	7410	4.000	39.100	40.000	2.30%
E	2300	HEAD	01/30/2020	22.5	21.6	0.100	1073	7417	5.020	49.200	50.200	2.03%
E	2450	HEAD	02/05/2020	23.6	21.0	0.100	981	3589	5.130	52.300	51.300	-1.91%
E	2450	HEAD	02/08/2020	22.2	21.5	0.100	981	3589	5.240	52.300	52.400	0.19%
Р	750	BODY	01/29/2020	21.5	19.6	0.200	1161	7551	1.770	8.430	8.850	4.98%
Р	750	BODY	01/31/2020	20.8	21.0	0.200	1161	7551	1.820	8.430	9.100	7.95%
Р	835	BODY	01/23/2020	23.1	21.6	0.200	4d133	7551	2.000	9.750	10.000	2.56%
Р	835	BODY	01/27/2020	20.5	19.8	0.200	4d047	7551	2.050	9.470	10.250	8.24%
н	835	BODY	01/31/2020	22.8	21.0	0.200	4d047	7406	2.020	9.470	10.100	6.65%
I	1750	BODY	02/10/2020	21.5	20.5	0.100	1148	7357	3.810	37.700	38.100	1.06%
Р	1900	BODY	01/21/2020	22.0	21.4	0.100	5d080	7551	4.010	39.200	40.100	2.30%
J	1900	BODY	01/27/2020	23.3	23.0	0.100	5d148	7571	4.210	39.100	42.100	7.67%
J	1900	BODY	02/09/2020	22.7	24.7	0.100	5d149	7571	4.220	39.400	42.200	7.11%
L	2300	BODY	01/27/2020	20.5	21.5	0.100	1073	7410	4.850	47.700	48.500	1.68%
L	2450	BODY	01/27/2020	20.5	21.5	0.100	981	7410	4.890	50.900	48.900	-3.93%

Table 10-3 **System Verification Results** 

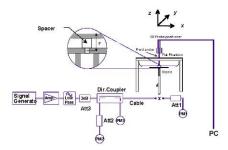


Figure 10-1 System Verification Setup Diagram



Figure 10-2 System Verification Setup Photo

	FCC ID: ZNFK300AM		SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 44 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 44 of 67
0 202	0 PCTEST				REV 21.4 M

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#### 11 SAR DATA SUMMARY

#### 11.1 **Standalone Head SAR Data**

						GSIV	820 H	ead S/	AR						
						MEASU	JREMEN	T RESU	LTS						
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	# of Time	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	Slots	Cycle	(W/kg)	Factor	(W/kg)	
836.60	190	GSM 850	GSM	32.7	32.70	0.04	Right	Cheek	01347	1	1:8.3	0.348	1.000	0.348	
836.60	190	GSM 850	GSM	32.7	32.70	0.01	Right	Tilt	01347	1	1:8.3	0.218	1.000	0.218	
836.60	190	GSM 850	GSM	32.7	32.70	0.06	Left	Cheek	01347	1	1:8.3	0.322	1.000	0.322	
836.60	836.60 190 GSM 850 GSM 32.7 32.70 0							Tilt	01347	1	1:8.3	0.185	1.000	0.185	
836.60	190	GSM 850	GPRS	31.7	31.36	0.08	Right	Cheek	01347	2	1:4.15	0.393	1.081	0.425	A1
836.60	190	GSM 850	GPRS	31.7	31.36	0.01	Right	Tilt	01347	2	1:4.15	0.246	1.081	0.266	
836.60	836.60 190 GSM 850 GPRS 31.7 31.36 0.0							Cheek	01347	2	1:4.15	0.360	1.081	0.389	
836.60	50         190         GSM 850         GPRS         31.7         31.36         0.0							Tilt	01347	2	1:4.15	0.223	1.081	0.241	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-1 COM 950 Haad CAD

### Table 11-2 GSM 1900 Head SAR

						MEASU	JREMEN	T RESU	LTS						
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	# of Time	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	Slots	Cycle	(W/kg)	Factor	(W/kg)	
1880.00	661	GSM 1900	GSM	30.7	30.55	0.20	Right	Cheek	01347	1	1:8.3	0.078	1.035	0.081	
1880.00	661	GSM 1900	GSM	30.7	30.55	0.07	Right	Tilt	01347	1	1:8.3	0.058	1.035	0.060	
1880.00	1880.00 661 GSM 1900 GSM 30.7 30.55 (							Cheek	01347	1	1:8.3	0.105	1.035	0.109	
1880.00	661	GSM 1900	GSM	30.7	30.55	0.21	Left	Tilt	01347	1	1:8.3	0.045	1.035	0.047	
1880.00							Right	Cheek	01347	2	1:4.15	0.079	1.084	0.086	
1880.00	661	GSM 1900	GPRS	28.7	28.35	0.12	Right	Tilt	01347	2	1:4.15	0.057	1.084	0.062	
1880.00	661	GSM 1900	GPRS	28.7	28.35	-0.12	Left	Cheek	01347	2	1:4.15	0.138	1.084	0.150	A2
1880.00	661	GSM 1900	-0.11	Left	Tilt	01347	2	1:4.15	0.060	1.084	0.065				
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT										He				
	Spatial Peak Uncontrolled Exposure/General Population										1.6 W/kg /eraged o	(mW/g) /er 1 gram			

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 45 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 45 of 67
202	20 PCTEST		•		REV 21.4 M

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### Table 11-3 UMTS 850 Head SAR

								ESULTS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #	
MHz	Ch.	mode	Service	Power [dBm]	Power [dBm]	Drift [dB]	Side	Position	Number	Cycle	(W/kg)	Factor	(W/kg)	1101#	
836.60	4183	UMTS 850	RMC	25.2	25.11	-0.07	Right	Cheek	01347	1:1	0.245	1.021	0.250		
836.60 4183 UNTS 850 RMC 25.2 25.11 0.0						0.09	Right	Tilt	01347	1:1	0.130	1.021	0.133		
				0.01	Left	Cheek	01347	1:1	0.248	1.021	0.253	A3			
836.60								Left Tilt 01347 1:1 0.141 1.021 0.144							
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Head							
	Spatial Peak						1.6 W/kg (mW/g)								
		Uncontrolled					averag	ed over 1 gra	am						

Table 11-4 UMTS 1750 Head SAR

					ME	ASURE	MENT R	ESULTS					· · · · · ·		
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #	
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	Cycle	(W/kg)	Factor	(W/kg)		
1732.40	1412	UMTS 1750	RMC	24.7	24.54	0.15	Right	Cheek	01313	1:1	0.158	1.038	0.164		
1732.40 1412 UMTS 1750 RMC 24.7 24.54 0.1						0.11	Right	Tilt	01313	1:1	0.124	1.038	0.129		
1732.40							Left	Cheek	01313	1:1	0.250	1.038	0.260	A4	
1732.40	2.40 1412 UMTS 1750 RMC 24.7 24.54 0.1							Tilt	01313	1:1	0.145	1.038	0.151		
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Head								
	Spatial Peak						1.6 W/kg (mW/g)								
	Uncontrolled Exposure/General Population								-	averag	jed over 1 gra	am			

Table 11-5 UMTS 1900 Head SAR

					•		••••		•						
					ME	EASURE	MENT R	ESULTS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #	
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	Cycle	(W/kg)	Factor	(W/kg)		
1880.00	9400	UMTS 1900	RMC	-0.01	Right	Cheek	01347	1:1	0.198	1.014	0.201				
1880.00 9400 UMTS 1900 RMC 24.7 24.64 -0.0							Right	Tilt	01347	1:1	0.153	1.014	0.155		
1880.00								Cheek	01347	1:1	0.237	1.014	0.240	A5	
1880.00	0.00 9400 UMTS 1900 RMC 24.7 24.64 0.1							Tilt	01347	1:1	0.106	1.014	0.107		
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Head								
	Spatial Peak									1.6 \	V/kg (mW/g)	)			
	Uncontrolled Exposure/General Population							averaged over 1 gram							

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕑 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 46 of 67
000	0 DOTEST				DEV/21.4 M

## Table 11-6 LTE Band 12 Head SAR

													MEASUREMENT RESULTS													
								MEAS	UREMI	ENT RES	BULTS															
FR	EQUENCY	r	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #							
MHz	с	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	Cycle	(W/kg)	Factor	(W/kg)								
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.03	0	Right	Cheek	QPSK	1	25	01347	1:1	0.240	1.161	0.279								
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.10	1	Right	Cheek	QPSK	25	25	01347	1:1	0.188	1.183	0.222								
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.03	0	Right	Tilt	QPSK	1	25	01347	1:1	0.121	1.161	0.140								
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.09	1	Right	Tilt	QPSK	25	25	01347	1:1	0.095	1.183	0.112								
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.11	0	Left	Cheek	QPSK	1	25	01347	1:1	0.330	1.161	0.383	A6							
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.03	1	Left	Cheek	QPSK	25	25	01347	1:1	0.259	1.183	0.306								
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	-0.15	0	Left	Tilt	QPSK	1	25	01347	1:1	0.195	1.161	0.226								
707.50	i0 23095 Mid LTE Band 12 10 24.2 23.47 -0.05								Left	Tilt	QPSK	25	25	01347	1:1	0.147	1.183	0.174								
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head																	
	Spatial Peak													.6 W/kg (n	•											
	Uncontrolled Exposure/General Population												ave	eraged over	1 gram											

Table 11-7 LTE Band 14 Head SAR

								MEAS	SUREMI	ENT RE	SULTS								
FR	EQUENCY		Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	CI	n.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	Cycle	(W/kg)	Factor	(W/kg)	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	-0.03	0	Right	Cheek	QPSK	1	25	01347	1:1	0.258	1.164	0.300	A7
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	0.05	1	Right	Cheek	QPSK	25	12	01347	1:1	0.210	1.180	0.248	
793.00										Tilt	QPSK	1	25	01347	1:1	0.137	1.164	0.159	
793.00	93.00 23330 Mid LTE Band 14 10 24.2 23.48 0.18								Right	Tilt	QPSK	25	12	01347	1:1	0.112	1.180	0.132	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	0.04	0	Left	Cheek	QPSK	1	25	01347	1:1	0.243	1.164	0.283	
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	0.02	1	Left	Cheek	QPSK	25	12	01347	1:1	0.205	1.180	0.242	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	-0.21	0	Left	Tilt	QPSK	1	25	01347	1:1	0.143	1.164	0.166	
793.00	23330	Mid	LTE Band 14	10	24.2	1	Left	Tilt	QPSK	25	12	01347	1:1	0.121	1.180	0.143			
			ANSI / IEEE C	Spatial Pe	ak									Head .6 W/kg (n eraged over	nW/g)				

Table 11-8 LTE Band 5 (Cell) Head SAR

								MEAS	SUREM	ENT RE	SULTS								
FR	EQUENCY		Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	CI	n.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	Cycle	(W/kg)	Factor	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.03	0	Right	Cheek	QPSK	1	25	01347	1:1	0.302	1.194	0.361	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	0.06	1	Right	Cheek	QPSK	25	12	01347	1:1	0.232	1.175	0.273	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.18	0	Right	Tilt	QPSK	1	25	01347	1:1	0.168	1.194	0.201	
836.50										Tilt	QPSK	25	12	01347	1:1	0.121	1.175	0.142	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	-0.13	0	Left	Cheek	QPSK	1	25	01347	1:1	0.303	1.194	0.362	A8
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	0.13	1	Left	Cheek	QPSK	25	12	01347	1:1	0.246	1.175	0.289	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.03	0	Left	Tilt	QPSK	1	25	01347	1:1	0.175	1.194	0.209	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	0.04	1	Left	Tilt	QPSK	25	12	01347	1:1	0.134	1.175	0.157	
			ANSI / IEEE C			MIT								Head					
				Spatial Pe		lation								.6 W/kg (n					
			Uncontrolled E	xposure/G	eneral Popul	ation							ave	eraged over	i gram				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🔁 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 47 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 47 of 67
202	20 PCTEST				REV 21.4 M

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# Table 11-9 LTE Band 4 (AWS) Head SAR

									· · ·	/	ncuu								
								MEAS	SUREM	ENT RE	SULTS								
FR	EQUENCY		Mode	Bandwidth	Maximum Allowed	Conducted	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	<b>1</b> .		[MHz]	Power [dBm]	Power [dBm]	Drift (dB)			Position				Number	Cycle	(W/kg)	Factor	(W/kg)	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.19	0	Right	Cheek	QPSK	1	50	01313	1:1	0.165	1.040	0.172	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.15	1	Right	Cheek	QPSK	50	25	01313	1:1	0.129	1.084	0.140	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	-0.02	0	Right	Tilt	QPSK	1	50	01313	1:1	0.107	1.040	0.111	
1732.50	Mid	LTE Band 4 (AWS)	0.05	1	Right	Tilt	QPSK	50	25	01313	1:1	0.086	1.084	0.093					
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.07	0	Left	Cheek	QPSK	1	50	01313	1:1	0.236	1.040	0.245	A9
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.14	1	Left	Cheek	QPSK	50	25	01313	1:1	0.183	1.084	0.198	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.09	0	Left	Tilt	QPSK	1	50	01313	1:1	0.132	1.040	0.137	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.11	1	Left	Tilt	QPSK	50	25	01313	1:1	0.108	1.084	0.117	
			ANSI / IEEE C	95.1 1992	- SAFETY LI	MIT								Head	-				
				Spatial Pe	ak								1	.6 W/kg (n	nW/g)				
			Uncontrolled Ex	cposure/G	eneral Popul	lation							ave	eraged over	1 gram				

Table 11-10 LTE Band 2 (PCS) Head SAR

								MEAS	SUREMI	ENT RE	SULTS								
FR	EQUENCY		Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR (dB)	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	CI	ı.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	Cycle	(W/kg)	Factor	(W/kg)	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	-0.11	0	Right	Cheek	QPSK	1	50	01347	1:1	0.171	1.019	0.174	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	0.00	1	Right	Cheek	QPSK	50	0	01347	1:1	0.144	1.052	0.151	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	0.02	0	Right	Tilt	QPSK	1	50	01347	1:1	0.127	1.019	0.129	
1880.00	18900	Mid	LTE Band 2 (PCS)	0.20	1	Right	Tilt	QPSK	50	0	01347	1:1	0.093	1.052	0.098				
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	0.07	0	Left	Cheek	QPSK	1	50	01347	1:1	0.212	1.019	0.216	A10
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	0.07	1	Left	Cheek	QPSK	50	0	01347	1:1	0.155	1.052	0.163	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	0.11	0	Left	Tilt	QPSK	1	50	01347	1:1	0.107	1.019	0.109	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	1	Left	Tilt	QPSK	50	0	01347	1:1	0.079	1.052	0.083		
			ANSI / IEEE C			MIT								Head					
				Spatial Pe		lation								.6 W/kg (n					
			Uncontrolled Ex	cposure/G	eneral Popul	lation				,			ave	eraged over	i gram				

# Table 11-11 LTE Band 30 Head SAR

								MEAS	SUREM	ENT RE	SULTS								
FR	EQUENCY	,	Mode	Bandwidth [MHz]	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	CI	n.		[MHZ]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	Cycle	(W/kg)	Factor	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	0.14	0	Right	Cheek	QPSK	1	25	01321	1:1	0.161	1.086	0.175	
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	0.09	1	Right	Cheek	QPSK	25	12	01321	1:1	0.130	1.107	0.144	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	0.18	0	Right	Tilt	QPSK	1	25	01321	1:1	0.141	1.086	0.153	
2310.00	27710	Mid	LTE Band 30	0.16	1	Right	Tilt	QPSK	25	12	01321	1:1	0.104	1.107	0.115				
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	0.21	0	Left	Cheek	QPSK	1	25	01321	1:1	0.209	1.086	0.227	A11
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	0.14	1	Left	Cheek	QPSK	25	12	01321	1:1	0.155	1.107	0.172	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	0.07	0	Left	Tilt	QPSK	1	25	01321	1:1	0.126	1.086	0.137	
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	1	Left	Tilt	QPSK	25	12	01321	1:1	0.103	1.107	0.114		
			ANSI / IEEE C			MIT								Head					
				Spatial Pe										.6 W/kg (n					
			Uncontrolled E	xposure/G	eneral Popul	ation							ave	eraged over	1 gram				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 49 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 48 of 67
202	20 PCTEST	•	·		REV 21.4 M

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# Table 11-12 DTS Head SAR

							N	IEASUF	REMENT	RESUL	TS							
FREQUE	ENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[WH2]	Power [dBm]	Power [dBm]	υτιπ (αΒ)		Position	Number	(WDps)	(70)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.45	0.12	Right	Cheek	01255	1	99.0	0.853	0.541	1.135	1.010	0.620	
2437	6	802.11b	-0.19	Right	Cheek	01255	1	99.0	0.863	0.555	1.130	1.010	0.633	A12				
2462	11	802.11b	0.12	Right	Cheek	01255	1	99.0	0.709	0.441	1.140	1.010	0.508					
2437	6	802.11b	DSSS	22	19.0	18.47	0.17	Right	Tilt	01255	1	99.0	0.512	0.368	1.130	1.010	0.420	
2437	6	802.11b	DSSS	22	19.0	18.47	0.19	Left	Cheek	01255	1	99.0	0.397	-	1.130	1.010	-	
2437	6	802.11b	0.14	Left	Tilt	01255	1	99.0	0.384	-	1.130	1.010	-					
		ANSI / I							Hea	ad								
			Spati	al Peak									1.6 W/kg	(mW/g)				
		Uncontro	lled Exposu	ure/Genera	al Population	I.							averaged ov	/er 1 gram				

### Table 11-13 **DSS Head SAR**

						м	EASURE		RESULT	s						
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	Data Rate	Duty	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.	Mode	Service	Power [dBm]	Power [dBm]	Drift [dB]	Side	Position	Number	(Mbps)	Cycle (%)	(W/kg)	Power)	Cycle)	(W/kg)	FIOL#
2441.00	39	Bluetooth	FHSS	10.0	9.83	0.13	Right	Cheek	01255	1	77.3	0.033	1.040	1.294	0.044	A13
2441.00	39	Bluetooth	FHSS	10.0	9.83	0.12	Right	Tilt	01255	1	77.3	0.021	1.040	1.294	0.028	
2441.00	39	Bluetooth	FHSS	10.0	9.83	0.15	Left	Cheek	01255	1	77.3	0.015	1.040	1.294	0.020	
2441.00	39	Bluetooth	FHSS	10.0	9.83	0.15	Left	Tilt	01255	1	77.3	0.014	1.040	1.294	0.019	
		ANSI / IEE	E C95.1 1992	- SAFETY LI	МІТ							Head				
			Spatial Pe	ak							1.6	W/kg (mW/	g)			
		Uncontrollec	I Exposure/G	eneral Popul	ation						avera	aged over 1 g	ram			

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 40 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 49 of 67
202	20 PCTEST				REV 21.4 M 09/11/2019

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# 11.2 Standalone Body-Worn SAR Data

					ME	ASURE	MENT F	RESULTS	5						
FREQUE	NCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Device Serial	# of Time		Side	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Number	Slots	Cycle		(W/kg)	Factor	(W/kg)	
836.60	190	GSM 850	GSM	32.7	32.70	-0.12	10 mm	01321	1	1:8.3	back	0.384	1.000	0.384	
836.60	190	GSM 850	GPRS	31.7	31.36	-0.14	10 mm	01321	2	1:4.15	back	0.541	1.081	0.585	A14
1880.00	661	GSM 1900	GSM	30.7	30.55	-0.18	10 mm	01347	1	1:8.3	back	0.226	1.035	0.234	
1880.00	661	GSM 1900	GPRS	28.7	28.35	-0.20	10 mm	01347	2	1:4.15	back	0.301	1.084	0.326	A15
836.60	4183	UMTS 850	RMC	25.2	25.11	0.01	10 mm	01313	N/A	1:1	back	0.291	1.021	0.297	A17
1712.40	1312	UMTS 1750	RMC	24.7	24.51	-0.01	10 mm	01339	N/A	1:1	back	0.717	1.045	0.749	
1732.40	1412	UMTS 1750	RMC	24.7	24.54	-0.10	10 mm	01339	N/A	1:1	back	0.727	1.038	0.755	A18
1752.60	1513	UMTS 1750	RMC	24.7	24.53	-0.03	10 mm	01339	N/A	1:1	back	0.653	1.040	0.679	
1880.00	9400	UMTS 1900	RMC	24.7	24.64	-0.02	10 mm	01313	N/A	1:1	back	0.577	1.014	0.585	A19
		ANSI / IEEE	C95.1 1992 - S	AFETY LIMIT							B	ody			
			Spatial Peak								1.6 W/k	g (mW/g)			
		Uncontrolled	Exposure/Gene	ral Populatio	on					a	veraged	over 1 gram			

Table 11-14 **GSM/UMTS Body-Worn SAR Data** 

Table 11-15 LTE Body-Worn SAR

							I	MEASUF	EMENT	RESULTS	6								
FI	REQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift (dB)	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	CI	ı.		[initiz]	Power [dBm]	r ower [abili]	Dint[db]		Number						Cycle	(W/kg)	Tactor	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.01	0	01339	QPSK	1	25	10 mm	back	1:1	0.469	1.161	0.545	A21
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.05	1	01339	QPSK	25	25	10 mm	back	1:1	0.368	1.183	0.435	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	-0.12	0	01339	QPSK	1	25	10 mm	back	1:1	0.409	1.164	0.476	A23
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	0.05	1	01339	QPSK	25	12	10 mm	back	1:1	0.311	1.180	0.367	
836.50	20525	Mid	LTE Band 5 (Cell)	0.02	0	01321	QPSK	1	25	10 mm	back	1:1	0.392	1.194	0.468	A25			
836.50									01321	QPSK	25	12	10 mm	back	1:1	0.299	1.175	0.351	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.04	0	01321	QPSK	1	50	10 mm	back	1:1	0.705	1.040	0.733	A27
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.04	1	01321	QPSK	50	25	10 mm	back	1:1	0.563	1.084	0.610	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	-0.09	0	01313	QPSK	1	50	10 mm	back	1:1	0.503	1.019	0.513	A29
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	0.06	1	01313	QPSK	50	0	10 mm	back	1:1	0.415	1.052	0.437	
2310.00	27710	Mid	LTE Band 30	10	24.2	0	01313	QPSK	1	25	10 mm	back	1:1	0.548	1.086	0.595	A31		
2310.00	27710	Mid	LTE Band 30	10	1	01313	QPSK	25	12	10 mm	back	1:1	0.436	1.107	0.483				
			ANSI / IEEE C										ody						
				Spatial Pea										1.6 W/kg	g (mW/g)				
			Uncontrolled Ex	posure/Ge	eneral Popula	ation							av	eraged c	over 1 gra	ım			

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 50 of 67
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							DTS I	Body	-Woi	n SA	٩R							
							MEAS	SUREME	ENT RE	SULTS	;							
FREQ	UENCY Mode Service Bandwidth [MHz] Maximum (Bm] (Bm] (Bm] (Bm] (Bm] (Bm] (Bm] (Bm																	
MHz	Ch.			[MITIZ]	[dBm]	[ubiii]	[UB]		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.47	-0.14	10 mm	01255	1	back	99.0	0.478	0.288	1.130	1.010	0.329	A33
				Spatial Pe	- SAFETY LIMIT ak ieneral Populati								1.6 W/	Body kg (mW/g) over 1 gram				

# Table 11-16

# 11.3 Standalone Hotspot SAR Data

Table 11-17 **GPRS/UMTS Hotspot SAR Data** 

					ME	ASURE	MENT I	RESULTS	3						
FREQ	JENCY	Mode	Service	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	i ower [abiii]	Dim [uD]		Number	01013	Oyere		(W/kg)	1 40101	(W/kg)	
836.60	190	GSM 850	GPRS	31.7	31.36	-0.14	10 mm	01321	2	1:4.15	back	0.541	1.081	0.585	A14
836.60	190	GSM 850	GPRS	31.7	31.36	0.14	10 mm	01321	2	1:4.15	front	0.397	1.081	0.429	
836.60	190	GSM 850	GPRS	31.7	31.36	0.15	10 mm	01321	2	1:4.15	bottom	0.190	1.081	0.205	
836.60	190	GSM 850	GPRS	31.7	31.36	-0.12	10 mm	01321	2	1:4.15	left	0.392	1.081	0.424	
1880.00	661	GSM 1900	GPRS	28.7	28.35	-0.20	10 mm	01347	2	1:4.15	back	0.301	1.084	0.326	
1880.00	661	GSM 1900	GPRS	28.7	28.35	-0.10	10 mm	01347	2	1:4.15	front	0.317	1.084	0.344	
1880.00	661	GSM 1900	GPRS	28.7	28.35	-0.06	10 mm	01347	2	1:4.15	bottom	0.397	1.084	0.430	A16
1880.00	661	GSM 1900	GPRS	28.7	28.35	0.03	10 mm	01347	2	1:4.15	right	0.095	1.084	0.103	
836.60	4183	UMTS 850	RMC	25.2	25.11	0.01	10 mm	01313	N/A	1:1	back	0.291	1.021	0.297	A17
836.60	4183	UMTS 850	RMC	25.2	25.11	0.01	10 mm	01313	N/A	1:1	front	0.254	1.021	0.259	
836.60	4183	UMTS 850	RMC	25.2	25.11	-0.17	10 mm	01313	N/A	1:1	bottom	0.147	1.021	0.150	
836.60	4183	UMTS 850	RMC	25.2	25.11	0.02	10 mm	01313	N/A	1:1	left	0.239	1.021	0.244	
1712.40	1312	UMTS 1750	RMC	24.7	24.51	-0.01	10 mm	01339	N/A	1:1	back	0.717	1.045	0.749	
1732.40	1412	UMTS 1750	RMC	24.7	24.54	-0.10	10 mm	01339	N/A	1:1	back	0.727	1.038	0.755	A18
1752.60	1513	UMTS 1750	RMC	24.7	24.53	-0.03	10 mm	01339	N/A	1:1	back	0.653	1.040	0.679	
1732.40	1412	UMTS 1750	RMC	24.7	24.54	-0.06	10 mm	01339	N/A	1:1	front	0.669	1.038	0.694	
1732.40	1412	UMTS 1750	RMC	24.7	24.54	-0.02	10 mm	01339	N/A	1:1	bottom	0.713	1.038	0.740	
1732.40	1412	UMTS 1750	RMC	24.7	24.54	0.14	10 mm	01339	N/A	1:1	right	0.164	1.038	0.170	
1880.00	9400	UMTS 1900	RMC	24.7	24.64	-0.02	10 mm	01313	N/A	1:1	back	0.577	1.014	0.585	
1880.00	9400	UMTS 1900	RMC	24.7	24.64	-0.03	10 mm	01313	N/A	1:1	front	0.578	1.014	0.586	
1852.40	9262	UMTS 1900	RMC	24.7	24.69	-0.01	10 mm	01313	N/A	1:1	bottom	0.705	1.002	0.706	A20
1880.00	9400	UMTS 1900	RMC	24.7	24.64	0.01	10 mm	01313	N/A	1:1	bottom	0.598	1.014	0.606	
1907.60	9538	UMTS 1900	RMC	24.7	24.63	0.03	10 mm	01313	N/A	1:1	bottom	0.613	1.016	0.623	
1880.00	9400	UMTS 1900	RMC	24.7	24.64	0.03	10 mm	01313	N/A	1:1	right	0.193	1.014	0.196	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Body															
	Spatial Peak         1.6 W/kg (mW/g)           Uncontrolled Exposure/General Population         averaged over 1 gram														
	_	Uncontrolled	Exposure/G	eneral Populati	on			-		a	veraged	over 1 gram			
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1M2001200008-01-R1.ZNF 01/21/20 - 2/10/20 Portable Handset

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Page 51 of 67

REV 21.4 M

DUT Type:

### Table 11-18 LTE Band 12 Hotspot SAR

								MEAS	UREMEN	TRESUL	тs								
FRI	EQUENCY		Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	CI	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Number							(W/kg)	Factor	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.01	0	01339	QPSK	1	25	10 mm	back	1:1	0.469	1.161	0.545	
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.05	1	01339	QPSK	25	25	10 mm	back	1:1	0.368	1.183	0.435	
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.00	0	01339	QPSK	1	25	10 mm	front	1:1	0.388	1.161	0.450	
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.03	1	01339	QPSK	25	25	10 mm	front	1:1	0.290	1.183	0.343	
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	0.01	0	01339	QPSK	1	25	10 mm	bottom	1:1	0.134	1.161	0.156	
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.06	1	01339	QPSK	25	25	10 mm	bottom	1:1	0.107	1.183	0.127	
707.50	23095	Mid	LTE Band 12	10	25.2	24.55	-0.03	0	01339	QPSK	1	25	10 mm	left	1:1	0.488	1.161	0.567	A22
707.50	23095	Mid	LTE Band 12	10	24.2	23.47	0.04	1	01339	QPSK	25	25	10 mm	left	1:1	0.345	1.183	0.408	
		1	ANSI / IEEE C95.		FETY LIMIT									Body					
			•	atial Peak										/kg (mW					
		Un	controlled Expo	sure/Gener	al Populatio	n							average	d over 1	gram				

# Table 11-19 LTE Band 14 Hotspot SAR

								MEASU	REMENT	RESULTS	;								
FF	REQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.			[]	Power [dBm]	r oli or [abili]	Dinit [db]		Number							(W/kg)	1 40101	(W/kg)	ĺ
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	-0.12	0	01339	QPSK	1	25	10 mm	back	1:1	0.409	1.164	0.476	
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	0.05	1	01339	QPSK	25	12	10 mm	back	1:1	0.311	1.180	0.367	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	-0.02	0	01339	QPSK	1	25	10 mm	front	1:1	0.412	1.164	0.480	
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	0.02	1	01339	QPSK	25	12	10 mm	front	1:1	0.315	1.180	0.372	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	0.01	0	01339	QPSK	1	25	10 mm	bottom	1:1	0.166	1.164	0.193	
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	-0.06	1	01339	QPSK	25	12	10 mm	bottom	1:1	0.128	1.180	0.151	
793.00	23330	Mid	LTE Band 14	10	25.2	24.54	-0.12	0	01339	QPSK	1	25	10 mm	left	1:1	0.468	1.164	0.545	A24
793.00	23330	Mid	LTE Band 14	10	24.2	23.48	-0.02	1	01339	QPSK	25	12	10 mm	left	1:1	0.349	1.180	0.412	
		A	NSI / IEEE C95.1	1992 - SAF	ETY LIMIT									Body					
			Spat	ial Peak									1.6 W	//kg (mV	V/g)				
		Und	ontrolled Expos	ure/Genera	I Population								average	ed over 1	gram				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dogo 52 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 52 of 67
© 202	0 PCTEST				REV 21.4 M

REV 21.4 M 09/11/2019

# Table 11-20 LTE Band 5 (Cell) Hotspot SAR

								MEASU	IREMENT	r result	•								
FR	EQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	C	h.		[WITZ]	Power [dBm]	Power (dBm)	υτιπ (αΒ)		Number							(W/kg)	Factor	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.02	0	01321	QPSK	1	25	10 mm	back	1:1	0.392	1.194	0.468	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	0.04	1	01321	QPSK	25	12	10 mm	back	1:1	0.299	1.175	0.351	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.00	0	01321	QPSK	1	25	10 mm	front	1:1	0.394	1.194	0.470	A26
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	0.01	1	01321	QPSK	25	12	10 mm	front	1:1	0.306	1.175	0.360	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.01	0	01321	QPSK	1	25	10 mm	bottom	1:1	0.239	1.194	0.285	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	-0.01	1	01321	QPSK	25	12	10 mm	bottom	1:1	0.188	1.175	0.221	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.2	24.43	0.00	0	01321	QPSK	1	25	10 mm	left	1:1	0.381	1.194	0.455	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.2	23.50	0.02	1	01321	QPSK	25	12	10 mm	left	1:1	0.302	1.175	0.355	
			ANSI / IEEE C95.		FETY LIMIT									Body					
			•	tial Peak										//kg (mV					
		Ur	controlled Expo	sure/Gener	ral Population	n						,	average	ed over 1	gram				

Table 11-21 LTE Band 4 (AWS) Hotspot SAR

								MEASU	REMENT	r result	s								
FRE	QUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Cł	h.		[WH2]	Power [dBm]	Fower [ubili]	Drint [UB]		Number							(W/kg)	Factor	(W/kg)	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.04	0	01321	QPSK	1	50	10 mm	back	1:1	0.705	1.040	0.733	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.04	1	01321	QPSK	50	25	10 mm	back	1:1	0.563	1.084	0.610	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.07	0	01321	QPSK	1	50	10 mm	front	1:1	0.657	1.040	0.683	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.02	1	01321	QPSK	50	25	10 mm	front	1:1	0.513	1.084	0.556	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	-0.01	0	01321	QPSK	1	50	10 mm	bottom	1:1	0.731	1.040	0.760	A28
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.02	1	01321	QPSK	50	25	10 mm	bottom	1:1	0.579	1.084	0.628	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.7	24.53	0.05	0	01321	QPSK	1	50	10 mm	right	1:1	0.174	1.040	0.181	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.7	23.35	0.10	1	01321	QPSK	50	25	10 mm	right	1:1	0.141	1.084	0.153	
		4	ANSI / IEEE C95.	1 1992 - SA	FETY LIMIT									Body					
			Spa	atial Peak									1.6 W	//kg (mV	//g)				
		Un	controlled Expo	sure/Gener	al Populatio	n							average	ed over 1	gram				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 53 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		r ugo oo or or
© 202	20 PCTEST				REV 21.4 M

09/11/2019

						<u>L</u>			00 1	) HOIS	por								
								MEASU	IREMEN	r result	s								
FRE	QUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Cł	h.		[WINZ]	Power [dBm]	Power [dBm]	υτιπ (αΒ)		Number							(W/kg)	Factor	(W/kg)	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	-0.09	0	01313	QPSK	1	50	10 mm	back	1:1	0.503	1.019	0.513	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	0.06	1	01313	QPSK	50	0	10 mm	back	1:1	0.415	1.052	0.437	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	-0.04	0	01313	QPSK	1	50	10 mm	front	1:1	0.568	1.019	0.579	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	-0.04	1	01313	QPSK	50	0	10 mm	front	1:1	0.463	1.052	0.487	
1860.00	18700	Low	LTE Band 2 (PCS)	20	24.7	24.56	-0.03	0	01313	QPSK	1	50	10 mm	bottom	1:1	0.626	1.033	0.647	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	-0.13	0	01313	QPSK	1	50	10 mm	bottom	1:1	0.654	1.019	0.666	A30
1900.00	19100	High	LTE Band 2 (PCS)	20	24.7	24.59	-0.11	0	01313	QPSK	1	50	10 mm	bottom	1:1	0.624	1.026	0.640	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	0.02	1	01313	QPSK	50	0	10 mm	bottom	1:1	0.532	1.052	0.560	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	24.7	24.62	0.01	0	01313	QPSK	1	50	10 mm	right	1:1	0.173	1.019	0.176	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.7	23.48	0.00	1	01313	QPSK	50	0	10 mm	right	1:1	0.152	1.052	0.160	
			ANSI / IEEE C95.	1 1992 - SA	FETY LIMIT									Body					
			Spa	tial Peak									1.6 W	//kg (mV	V/g)				
		U	ncontrolled Expo	sure/Gener	ral Populatio	n							average	ed over 1	gram				

# Table 11-22 I TE Band 2 (PCS) Hotspot SAR

# Table 11-23 LTE Band 30 Hotspot SAR

								MEASU	REMENT	RESULT	s								
FRE	QUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	С	h.		[WH2]	Power [dBm]	Fower [ubili]	ын (авј		Number							(W/kg)	Factor	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	0.12	0	01313	QPSK	1	25	10 mm	back	1:1	0.548	1.086	0.595	
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	0.12	1	01313	QPSK	25	12	10 mm	back	1:1	0.436	1.107	0.483	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	-0.03	0	01313	QPSK	1	25	10 mm	front	1:1	0.484	1.086	0.526	
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	-0.03	1	01313	QPSK	25	12	10 mm	front	1:1	0.383	1.107	0.424	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	-0.09	0	01313	QPSK	1	25	10 mm	bottom	1:1	0.751	1.086	0.816	A32
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	-0.08	1	01313	QPSK	25	12	10 mm	bottom	1:1	0.592	1.107	0.655	
2310.00	27710	Mid	LTE Band 30	10	23.2	22.71	-0.07	1	01313	QPSK	50	0	10 mm	bottom	1:1	0.583	1.119	0.652	
2310.00	27710	Mid	LTE Band 30	10	24.2	23.84	0.00	0	01313	QPSK	1	25	10 mm	right	1:1	0.239	1.086	0.260	
2310.00	27710	Mid	LTE Band 30	10	23.2	22.76	0.00	1	01313	QPSK	25	12	10 mm	right	1:1	0.190	1.107	0.210	
		1	ANSI / IEEE C95.	1 1992 - SA	FETY LIMIT									Body					
			Spa	atial Peak									1.6 W	//kg (mV	V/g)				
		Un	controlled Expo	sure/Gener	al Populatio	n							average	ed over 1	gram				

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dage 54 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 54 of 67
02	0 PCTEST				REV 21.4 M

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# Table 11-24 WLAN Hotspot SAR

MEAN Notspot OAN																		
	MEASUREMENT RESULTS																	
FREQ	JENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power	Conducted Power		Spacing	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	R Plot #
MHz Ch.			[WHZ]	[dBm]	[dBm]	[dB]		Number	(Mbps)	(%)	(%)	(%)	) W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.47	-0.14	10 mm	01255	1	back	99.0	0.478	0.288	1.130	1.010	0.329	A33
2437	6	802.11b	DSSS	22	19.0	18.47	-0.05	10 mm	01255	1	front	99.0	0.124	-	1.130	1.010	-	
2437	6	802.11b	DSSS	22	19.0	18.47	0.11	10 mm	01255	1	top	99.0	0.172	-	1.130	1.010	-	
2437	6	802.11b	DSSS	22	19.0	18.47	-0.04	10 mm	01255	1	left	99.0	0.162	-	1.130	1.010	-	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										В	ody						
					1.6 W/kg (mW/g)													
		Unce	ontrolled	Exposure/Ge	eneral Populatio	n							averaged	over 1 gram				

# 11.4 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
- 2. Batteries are fully charged at the beginning of the SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
- 7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
- 8. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg. Please see Section 13 for variability analvsis.
- 9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).

**GSM Test Notes:** 

- 1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes; The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
- 3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is >  $\frac{1}{2}$  dB, instead of the middle channel, the highest output power channel was used.
- 4. GPRS was additionally evaluated for head and body-worn exposure conditions to address possible VoIP scenarios.

	FCC ID: ZNFK300AM	CTEST	SAR EVALUATION REPORT	LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dage 55 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 55 of 67	
202	0 PCTEST				REV 21.4 M	

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09/11/2019

### UMTS Notes:

- UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

### LTE Notes:

- LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 8.5.4.
- MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
- 3. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 4. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive

### WLAN Notes:

- For held-to-ear and hotspot operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.6.3 for more information.
- 3. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
- 4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.

### **Bluetooth Notes**

- Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. See Section 9.5 for the time domain plot and calculation for the duty factor of the device.
- 2. Bluetooth Head SAR was evaluated for BT BR tethering applications.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 56 of 67
202	D PCTEST				REV 21.4 M

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09/11/2019

# **12** FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

# 12.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with builtin unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

# 12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is  $\leq 1.6$  W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2 b), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

Estimated SAR= $\frac{\sqrt{f(GHz)}}{7.5} * \frac{(Max Power of channel, mW)}{Min. Separation Distance, mm}$ 

Table 12-1

Estimated SAR					
Mode	Frequency	Maximum Allowed Power	Separation Distance (Body)	Estimated SAR (Body)	
	[MHz]	[dBm]	[mm]	[W/kg]	
Bluetooth	2480	10.00	10	0.210	

Note: Per KDB Publication 447498 D01v06, the maximum power of the channel was rounded to the nearest mW before calculation.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	C LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dage 57 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 57 of 67	
0	20 PCTEST				REV 21.4 M	

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#### Head SAR Simultaneous Transmission Analysis 12.3

For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM/GPRS 850	0.425	0.633	1.058
	GSM/GPRS 1900	0.150	0.633	0.783
	UMTS 850	0.253	0.633	0.886
	UMTS 1750	0.260	0.633	0.893
	UMTS 1900	0.240	0.633	0.873
Head SAR	LTE Band 12	0.383	0.633	1.016
	LTE Band 14	0.300	0.633	0.933
	LTE Band 5 (Cell)	0.362	0.633	0.995
	LTE Band 4 (AWS)	0.245	0.633	0.878
	LTE Band 2 (PCS)	0.216	0.633	0.849
	LTE Band 30	0.227	0.633	0.860

Table 12-2 Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)

### Table 12-3 Simultaneous Transmission Scenario with Bluetooth (Held to Ear)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM/GPRS 850	0.425	0.044	0.469
	GSM/GPRS 1900	0.150	0.044	0.194
	UMTS 850	0.253	0.044	0.297
	UMTS 1750	0.260	0.044	0.304
	UMTS 1900	0.240	0.044	0.284
Head SAR	LTE Band 12	0.383	0.044	0.427
	LTE Band 14	0.300	0.044	0.344
	LTE Band 5 (Cell)	0.362	0.044	0.406
	LTE Band 4 (AWS)	0.245	0.044	0.289
	LTE Band 2 (PCS)	0.216	0.044	0.260
	LTE Band 30	0.227	0.044	0.271

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		D 50 ( 07	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 58 of 67	
202	020 PCTEST					

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#### **Body-Worn Simultaneous Transmission Analysis** 12.4

ultaneous Ir	ansmission Scenario w	ith 2.4 GHZ V	NLAN (BODY	-Worn at 1.0
Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM/GPRS 850	0.585	0.329	0.914
	GSM/GPRS 1900	0.326	0.329	0.655
	UMTS 850	0.297	0.329	0.626
	UMTS 1750	0.755	0.329	1.084
	UMTS 1900	0.585	0.329	0.914
Body-Worn	LTE Band 12	0.545	0.329	0.874
	LTE Band 14	0.476	0.329	0.805
	LTE Band 5 (Cell)	0.468	0.329	0.797
	LTE Band 4 (AWS)	0.733	0.329	1.062
	LTE Band 2 (PCS)	0.513	0.329	0.842
	LTE Band 30	0.595	0.329	0.924

 Table 12-4

 Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.0 cm)

Table 12-5

Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.0 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM/GPRS 850	0.585	0.210	0.795
	GSM/GPRS 1900	0.326	0.210	0.536
	UMTS 850	0.297	0.210	0.507
	UMTS 1750	0.755	0.210	0.965
	UMTS 1900	0.585	0.210	0.795
Body-Worn	LTE Band 12	0.545	0.210	0.755
	LTE Band 14	0.476	0.210	0.686
	LTE Band 5 (Cell)	0.468	0.210	0.678
	LTE Band 4 (AWS)	0.733	0.210	0.943
	LTE Band 2 (PCS)	0.513	0.210	0.723
	LTE Band 30	0.595	0.210	0.805

Note: Bluetooth SAR was not required to be measured per FCC KDB Publication 447498 D01v06. Estimated SAR results were used in the above table to determine simultaneous transmission SAR test exclusion.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		D 50 ( 07	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 59 of 67	
202	20 PCTEST	·	•		REV 21.4 M	

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# 12.5 Hotspot SAR Simultaneous Transmission Analysis

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR.

For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.585	0.329	0.914
	GPRS 1900	0.430	0.329	0.759
	UMTS 850	0.297	0.329	0.626
	UMTS 1750	0.755	0.329	1.084
Hotopot	UMTS 1900	0.706	0.329	1.035
Hotspot SAR	LTE Band 12	0.567	0.329	0.896
UAIX	LTE Band 14	0.545	0.329	0.874
	LTE Band 5 (Cell)	0.470	0.329	0.799
	LTE Band 4 (AWS)	0.760	0.329	1.089
	LTE Band 2 (PCS)	0.666	0.329	0.995
	LTE Band 30	0.816	0.329	1.145

 Table 12-6

 Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager			
	Document S/N:	Test Dates: DUT Type:			Page 60 of 67			
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 60 01 67			
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Simultaneous Transmission Scenario with Bidetooth (Hotspot at 1.0 c						
Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)		
		1	2	1+2		
	GPRS 850	0.585	0.210	0.795		
	GPRS 1900	0.430	0.210	0.640		
	UMTS 850	0.297	0.210	0.507		
	UMTS 1750	0.755	0.210	0.965		
Hotopot	UMTS 1900	0.706	0.210	0.916		
Hotspot SAR	LTE Band 12	0.567	0.210	0.777		
0/11	LTE Band 14	0.545	0.210	0.755		
	LTE Band 5 (Cell)	0.470	0.210	0.680		
	LTE Band 4 (AWS)	0.760	0.210	0.970		
	LTE Band 2 (PCS)	0.666	0.210	0.876		
	LTE Band 30	0.816	0.210	1.026		

Table 12-7 Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Note: Bluetooth SAR was not required to be measured per FCC KDB Publication 447498 D01v06. Estimated SAR results were used in the above table to determine simultaneous transmission SAR test exclusion.

#### 12.6 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dama 04 of 07	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 61 of 67	
202	20 PCTEST				REV 21.4 M	

© 2

# 13 SAR MEASUREMENT VARIABILITY

# 13.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is  $\geq$  0.80 W/kg, the measurement was repeated once.
- A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

# 13.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Page 62 of 67
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 62 01 67
202	20 PCTEST				REV 21.4 M

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| Agilent  | N9020A  
   
   
   
   
   
   
   | MXA Signal Analyzer   
  | 4/20/2019   | Annual   | 4/20/2020  | US46470561  |  
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| Agilent  | N9030A  
   
   
   
   
   
   
   | PXA Signal Analyzer (44GHz)   
  | 6/12/2019   | Annual   | 6/12/2020  | MY52350166  |  
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| Amplifier Research   | 15S1G6  
   
   
   
   
   
   
   | Amplifier   
  | CBT   | N/A  | CBT  | 433972  |  
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  | CBT   |  | CBT  | 433972<br>433974  |  
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| Amplifier Research   | 15S1G6  
   
   
   
   
   
   
   | Amplifier   
  | -   | N/A  |  |   |  
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| Amplifier Research   | 15\$1G6   
   
   
   
   
   
   
   | Amplifier   
  | CBT   | N/A  | CBT  | 433975  |  
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| Amplifier Research   | 15S1G6  
   
   
   
   
   
   
   | Amplifier   
  | CBT   | N/A  | CBT  | 433976  |  
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| Anritsu  | MA24106A  
   
   
   
   
   
   
   | USB Power Sensor  
  | 3/5/2019  | Annual   | 3/5/2020   | 1344555   |  
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| Anritsu  | MA24106A  
   
   
   
   
   
   
   | USB Power Sensor  
  | 4/17/2019   | Annual   | 4/17/2020  | 1344556   |  
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| Anritsu  | MA24106A  
   
   
   
   
   
   
   | USB Power Sensor  
  | 7/15/2019   | Annual   | 7/15/2020  | 1349513   |  
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| Anritsu  | MA2411B   
   
   
   
   
   
   
   | Pulse Power Sensor  
  | 3/6/2019  | Annual   | 3/6/2020   | 1339018   |  
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| Anritsu  | MA2411B   
   
   
   
   
   
   
   | Pulse Power Sensor  
  | 6/11/2019   | Annual   | 6/11/2020  | 1207364   |  
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| Anritsu  | MA2411B   
   
   
   
   
   
   
   | Pulse Power Sensor  
  | 8/8/2019  | Annual   | 8/8/2020   | 1339008   |  
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| Anritsu  | ML2496A   
   
   
   
   
   
   
   | Power Meter   
  | 11/6/2019   | Annual   | 11/6/2020  | 1405003   |  
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| Anritsu  | ML2495A   
   
   
   
   
   
   
   | Power Meter   
  | 12/17/2019  | Annual   | 12/17/2020   | 941001  |  
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| Anritsu  | MT8820C   
   
   
   
   
   
   
   | Radio Communication Analyzer  
  | 3/29/2019   | Annual   | 3/29/2020  | 6201300731  |  
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| Anritsu  | MT8821C   
   
   
   
   
   
   
   | Radio Communication Analyzer  
  | 3/6/2019  | Annual   | 3/6/2020   | 6201381794  |  
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| Anritsu  | MT8821C   
   
   
   
   
   
   
   | Radio Communication Analyzer<br>Radio Communication Analyzer  
  | 5/13/2019   | Annual   | 5/13/2020  | 6201381794  |  
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| Anritsu  | MT8862A   
   
   
   
   
   
   
   | Wireless Connectivity Test Set  
  | 8/8/2019  | Annual   | 8/8/2020   | 6261782395  |  
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| Control Company  | 4040  
   
   
   
   
   
   
   | Therm./Clock/Humidity Monitor   
  | 6/29/2019   | Biennial   | 6/29/2021  | 192291470   |  
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| Control Company  | 4040  
   
   
   
   
   
   
   | Therm./Clock/Humidity Monitor   
  | 6/29/2019   | Biennial   | 6/29/2021  | 192291455   |  
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| Control Company  | 4040  
   
   
   
   
   
   
   | Therm./Clock/Humidity Monitor   
  | 6/29/2019   | Biennial   | 6/29/2021  | 192291460   |  
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| Control Company  | 4040  
   
   
   
   
   
   
   | Therm./Clock/Humidity Monitor   
  | 6/29/2019   | Biennial   | 6/29/2021  | 192291463   |  
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| Control Company  | 4352  
   
   
   
   
   
   
   | Long Stem Thermometer   
  | 6/26/2019   | Biennial   | 6/26/2021  | 192282744   |  
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| Control Company  | 4352  
   
   
   
   
   
   
   | Long Stem Thermometer   
  | 6/26/2019   | Biennial   | 6/26/2021  | 192282753   |  
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| Control Company  | 4352  
   
   
   
   
   
   
   | Ultra Long Stem Thermometer   
  | 11/29/2018  | Biennial   | 11/29/2020   | 181766801   |  
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| Control Company  | 4352  
   
   
   
   
   
   
   | Ultra Long Stem Thermometer   
  | 11/29/2018  | Biennial   | 11/29/2020   | 181766777   |  
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| Keysight   | 772D  
   
   
   
   
   
   
   | Dual Directional Coupler  
  | CBT   | N/A  | CBT  | MY52180215  |  
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| Keysight Technologies  | 85033E  
   
   
   
   
   
   
   | Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)   
  | -   | Annual   | 7/2/2020   | MY53401181  |  
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  | 7/2/2019  | Biennial   |  |   |  
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| Keysight Technologies  | N6705B  
   
   
   
   
   
   
   | DC Power Analyzer   
  | 4/27/2019   |  | 4/27/2021  | MY53004059  |  
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| Narda  | 4772-3  
   
   
   
   
   
   
   | Attenuator (3dB)  
  | N/A   | N/A  | N/A  | 9406  |  
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| MCL  | BW-N6W5+  
   
   
   
   
   
   
   | 6dB Attenuator  
  | CBT   | N/A  | CBT  | 1139  |  
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| MiniCircuits   | SLP-2400+   
   
   
   
   
   
   
   | Low Pass Filter   
  | CBT   | N/A  | CBT  | R8979500903   |  
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| Mini-Circuits  | BW-N20W5  
   
   
   
   
   
   
   | Power Attenuator  
  | CBT   | N/A  | CBT  | 1226  |  
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| Mini-Circuits  |   
   
   
   
   
   
   
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| Winn-circuits  | NLP-1200+   
   
   
   
   
   
   
   | Low Pass Filter DC to 1000 MHz  
  | CBT   | N/A  | CBT  | N/A   |  
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| Mini-Circuits  | NLP-1200+<br>NLP-2950+  
   
   
   
   
   
   
   | Low Pass Filter DC to 1000 MHz<br>Low Pass Filter DC to 2700 MHz  
  | CBT<br>CBT  | N/A<br>N/A   | CBT<br>CBT   | N/A<br>N/A  |  
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| Mini-Circuits<br>Pasternack  | NLP-2950+<br>NC-100   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench   
  | CBT<br>5/23/2018  | N/A<br>Biennial  | CBT<br>5/23/2020   | N/A<br>N/A  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack  | NLP-2950+<br>NC-100<br>PE2208-6   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler  
  | CBT<br>5/23/2018<br>CBT   | N/A<br>Biennial<br>N/A   | CBT<br>5/23/2020<br>CBT  | N/A<br>N/A<br>N/A   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler   
  | CBT<br>5/23/2018<br>CBT<br>CBT  | N/A<br>Biennial<br>N/A<br>N/A  | CBT<br>5/23/2020<br>CBT<br>CBT   | N/A<br>N/A<br>N/A<br>N/A  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz   | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020  | N/A<br>N/A<br>N/A<br>N/A<br>100976  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019  | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020   | N/A<br>N/A<br>N/A<br>100976<br>116743   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz   | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500<br>ZNLE6   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer  
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020<br>10/11/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500<br>ZNLE6<br>CMW500   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester  
  | CBT<br>5/23/2018<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/14/2020<br>10/11/2020<br>7/12/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500<br>ZNLE6<br>CMW500<br>CMW500   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>7/24/2019   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020<br>10/11/2020<br>7/12/2020<br>7/24/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500<br>ZNLE6<br>CMW500<br>CMW500<br>NC-100   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidfrectional Coupler<br>Bidfrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Torque Wrench (8° lb)  
  | CBT<br>5/23/2018<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>5/10/2018   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020<br>10/11/2020<br>7/12/2020<br>7/12/2020<br>5/10/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500<br>ZNLE6<br>CMW500<br>CMW500   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>7/24/2019   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020<br>10/11/2020<br>7/12/2020<br>7/24/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>CMW500<br>ZNLE6<br>CMW500<br>CMW500<br>NC-100   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidfrectional Coupler<br>Bidfrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Torque Wrench (8° lb)  
  | CBT<br>5/23/2018<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>5/10/2018   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020<br>10/11/2020<br>7/12/2020<br>7/12/2020<br>5/10/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG   | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW/500<br>CMW/500<br>ZNLE6<br>CMW/500<br>CMW/500<br>CMW/500<br>NC-100<br>D750/3  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° lb)<br>750 MH: SAR Dipole   
  | CBT<br>5/23/2018<br>CBT<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>7/24/2019<br>5/10/2018   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/4/2020<br>10/11/2020<br>7/124/2020<br>5/10/2020<br>10/19/2020   | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053<br>1161  |  
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| Mini-Circuits<br>Pastemack<br>Pastemack<br>Pastemack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG   | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW/500<br>CMW/500<br>CMW/500<br>CMW/500<br>CMW/500<br>CMW/500<br>NC-100<br>D750V3<br>D835V2  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidfrectional Coupler<br>Bidfrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Uideband Radio Communication Tester<br>Torque Wrench (8" lb)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>5/10/2018<br>10/19/2018<br>3/13/2019  | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Annual  | CBT<br>5/23/2020<br>CBT<br>8/26/2020<br>8/27/2020<br>10/14/2020<br>10/11/2020<br>7/12/2020<br>5/10/2020<br>3/13/2020   | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053<br>1161<br>4d047   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           D750V3           D835V2           D835V2           D1750V2   
   
   
   
   
   
   
  | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHt SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole  
   | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>5/10/2018<br>10/19/2018<br>3/13/2019<br>10/19/2020<br>5/15/2019   | N/A<br>Biennial<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial   | CBT<br>5/23/2020<br>CBT<br>8/26/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>7/24/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>3/13/2020<br>5/15/2020   | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053<br>1161<br>4d047<br>4d133  |   
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   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° lb)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole  
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>7/12/2019<br>7/12/2019<br>5/10/2018<br>10/19/2020<br>3/13/2019<br>10/19/2020<br>5/13/2019   | N/A<br>Biennial<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial   | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>10/4/2020<br>10/4/2020<br>10/14/2020<br>7/12/2020<br>7/12/2020<br>5/10/2020<br>10/19/2020<br>10/19/2020<br>5/13/2020  | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053<br>1161<br>4d047<br>4d133<br>1148  |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NLP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           D750V3           D835V2           D835V2           D1750V2           D1760V2   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" Ib)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole  
  | CBT<br>5/23/2018<br>CBT<br>8/26/2019<br>8/27/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>7/24/2019<br>7/24/2019<br>10/19/2018<br>3/13/2019<br>10/19/2020<br>5/15/2019<br>5/23/2018  | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial  | CBT<br>\$/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/14/2020<br>7/12/2020<br>7/12/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>5/23/2020   | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053<br>1161<br>4d047<br>4d133<br>1148<br>1008<br>5d080   |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NLP-2950+<br>NC-100<br>PE2206-6<br>PE2209-10<br>CMW/500<br>CMW/500<br>CMW/500<br>CMW/500<br>CMW/500<br>NC-100<br>D750V3<br>D835V2<br>D835V2<br>D835V2<br>D1750V2<br>D1765V2<br>D1900V2  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidfrectional Coupler<br>Bidfrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Statu Statu Statu Statu<br>Torque Wrench (8" lb)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1250 MHz SAR Dipole<br>12765 MHz SAR Dipole<br>1900 MHz SAR Dipole   
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>5/10/2018<br>10/19/2020<br>5/15/2019<br>5/23/2018<br>10/23/2018   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/25/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>3/13/2020<br>5/22/2020<br>10/23/2020   | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>101307<br>145645<br>151849<br>21053<br>1161<br>4d047<br>4d133<br>1148<br>1008<br>5d080<br>5d149  |  
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| Mini-ofrauits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW/500<br>CMW/500<br>ZNLE6<br>CMW/500<br>CMW/500<br>CMW/500<br>CMW/500<br>DE507<br>DE507<br>D15072<br>D175072<br>D175072<br>D190072<br>D190072   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Radio Compunication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Status Stat   | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/11/2019<br>7/12/2019<br>7/12/2019<br>7/12/2019<br>7/12/2019<br>3/13/2019<br>10/19/2018<br>10/19/2020<br>5/15/2019<br>10/23/2018<br>10/23/2018<br>10/23/2018  
   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/14/2020<br>7/12/2020<br>7/12/2020<br>7/12/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/23/2020<br>10/23/2020  | N/A           N/A           N/A           N/A           10976           116743           166462           10307           145645           151849           20053           1161           4d047           4d133           1008           50080           5d149           5d149   |   
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SeeKonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+           NC.100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D275073           D835V2           D835V2           D1755V2           D1755V2           D1900V2           D1900V2           D1900V2           D1900V2           D1900V2           D1900V2  
   
   
   
   
   
   
   | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Yorque Wrench (8" lb)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1250 MHz SAR Dipole<br>1200 MHz SAR Dipole<br>1900 MHz SAR Dipole  
  | CBT<br>5/23/2018<br>CBT<br>CBT<br>8/26/2019<br>8/27/2019<br>10/11/2019<br>7/124/2019<br>10/11/2019<br>5/10/2018<br>3/13/2019<br>10/19/2020<br>5/15/2019<br>10/23/2018<br>10/23/2018   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>3/13/2020<br>10/19/2020<br>10/19/2020<br>10/23/2020<br>10/23/2020<br>2/21/2021   | N/A<br>N/A<br>N/A<br>100976<br>116743<br>166462<br>21053<br>1161<br>44047<br>44013<br>1161<br>40047<br>44013<br>1188<br>1008<br>50080<br>50149<br>50488   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Bohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NLP-2950+<br>NC-100<br>PE2208-6<br>PE2209-10<br>CMW500<br>CMW500<br>ZNLE6<br>CMW500<br>CCMV500<br>CCMV500<br>CCMV500<br>DVLE6<br>CMV500<br>DVLE6<br>CMV500<br>DV50V3<br>D835V2<br>D835V2<br>D1750V2<br>D1750V2<br>D1750V2<br>D1900V2<br>D1900V2<br>D1900V2<br>D2300V2<br>D2450V2  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Status St   | C8T<br>5/23/2018<br>C8T<br>C8T<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>5/10/2018<br>5/10/2018<br>5/10/2018<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>10/23/2018<br>8/15/2018<br>8/15/2018   
  | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/11/2020<br>7/12/2020<br>7/12/2020<br>7/12/2020<br>7/12/2020<br>3/13/2020<br>5/15/2020<br>5/15/2020<br>5/15/2020<br>2/21/2021<br>8/13/2020   | N/A           N/A           N/A           N/A           N/A           N/A           100376           116743           116743           101307           145545           1151849           21053           1161           4047           40133           1048           1008           50480           50149           50149           50143           1073           981   |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NIP-2950+           NC-100           PF2208-6           PF2209-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D1750V3           D835V2           D1750V2           D1765V2           D1900V2           D1900V2           D2300V2           D2300V2           D2450V2           DX450V2  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole  
  | C8T<br>\$/23/2018<br>C8T<br>C8T<br>8/26/2019<br>8/27/2019<br>10/11/2019<br>10/11/2019<br>10/11/2019<br>10/12/2018<br>3/13/2019<br>3/13/2019<br>10/19/2018<br>3/13/2019<br>10/19/2018<br>3/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018   | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/13/2020<br>3/13/2020<br>10/19/2020<br>5/15/2020<br>5/15/2020<br>8/13/2020<br>8/13/2020<br>8/13/2020<br>8/13/2020<br>8/13/2020   | N/A           N/A           N/A           N/A           N/A           107           10076           116743           166462           101307           145645           1161           4d047           4d047           4d047           5d080           5d148           1073           981           1070  |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NLP-2950+           NC-100           PF2209-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D1750V3           D835V2           D1750V3           D1750V2           D1900V2           D1900V2           D1900V2           D2300V2           D2450V2           DAK-3.5  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Statu Statu Statu<br>Torque Wrench (8" lb)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1000 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1000 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>2450 MHz SAR Dipole<br>2450 MHz SAR Dipole   
  | C8T<br>5/23/2018<br>C8T<br>C8T<br>6/25/2019<br>8/27/2019<br>10/4/2019<br>10/11/2019<br>5/10/2018<br>3/13/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2    | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/25/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>5/10/2020<br>5/23/2020<br>10/23/2020<br>8/11/2020<br>8/11/2020   | N/A<br>N/A<br>N/A<br>N/A<br>N/A<br>N/A<br>N/A<br>100976<br>116743<br>116743<br>116743<br>116743<br>116743<br>11674<br>11617<br>40047<br>41133<br>1161<br>40047<br>41133<br>1164<br>1008<br>50080<br>50149<br>50148<br>1008<br>50148<br>10070<br>10070<br>10071  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Stekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DCMW500           D1950/3           D355/2           D1750/2           D1900/2           D1900/2           D2300/2           D2300/2           D4X-3.5           DK4   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Ster Witeband Radio Communication Tester<br>Torque Wrench (8" lb)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole  
  | C8T<br>\$/23/2018<br>C8T<br>C8T<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>3/13/2019<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2019<br>5/15/2019<br>5/15/2019<br>8/13/2018<br>8/16/2018<br>8/16/2018<br>8/16/2019<br>8/12/2019<br>5/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018                        | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/23/2020<br>8/16/2020<br>8/16/2020<br>8/16/2020<br>8/16/2020<br>8/16/2020<br>8/16/2020<br>8/16/2020<br>8/12/2020<br>10/22/2020   | N/A           1008           5080           504149           50143           50143           1073           981           1070           1091           665   |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NLP-2950+           NC.100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2500           D17550/2           D17550/2           D17550/2           D1900/2           D1900/2           D1900/2           D2450/2           DA455           DAK-3.5           DA64  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole   
  | C8T<br>5/23/2018<br>C8T<br>C8T<br>2/25/2019<br>8/27/2019<br>10/12/2019<br>7/12/2019<br>7/12/2019<br>7/12/2019<br>7/12/2019<br>3/13/2019<br>3/13/2018<br>10/13/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2019<br>10/22/2018<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018                                    | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/25/2020<br>10/14/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23                               | N/A           10037           16642           21033           1161           161           164047           40047           40047           40047           40047           40133           108           50080           50480           50080           50480           1073           981           1070           1091           665           625  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Stekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DCMW500           D1950/3           D355/2           D1750/2           D1900/2           D1900/2           D2300/2           D2300/2           D4X-3.5           DK4   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bidirectional Coupler<br>Bidirectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8'1b)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics   
   | C8T<br>\$/23/2018<br>C8T<br>C8T<br>8/26/2019<br>8/27/2019<br>10/4/2019<br>10/4/2019<br>10/11/2019<br>7/12/2019<br>3/13/2019<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2019<br>5/15/2019<br>5/15/2019<br>8/13/2018<br>8/16/2018<br>8/16/2018<br>8/16/2019<br>8/12/2019<br>5/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018<br>10/2/2018 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| N/A           1008           5080           504149           50143           50143           1073           981           1070           1091           665   |   
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NLP-2950+           NC.100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2500           D17550/2           D17550/2           D17550/2           D1900/2           D1900/2           D1900/2           D2450/2           DA455           DAK-3.5           DA64  
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole   
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                              | N/A           10037           16642           21033           1161           161           164047           40047           40047           40047           40047           40133           108           50080           50480           50080           50180           50180           1073           981           1073           1070           1091           665           625   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Bohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX166           CMW500           DX50V3           D355V2           D1756V2           D1900V2           D1900V2           D2300V2           D2450V2           DAK-3.5           DAE4           DAE4  
   
   
   
   
   
   
   | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8'' Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics   
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| N/A           10037           116743           1164           21053           1161           4047           40133           1164           40047           40133           1018           5049           50149           50149           50149           50149           981           1070           1091           665           1272           1407  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NIP-2950+           NC-100           PF2209-60           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX1500           DMS50           DMS50           DMS50           DMS50           DMS502           D1750V3           D1750V2           D1900V2           D1900V2           D2450V2           DAK-3.5           DAE4           DAE4           DAE4           DAE4           DAE4           DAE4   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Status Stat   |
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                              | N/A           10037           11673           1104           40047           40131           1008           50480           50481           1003           50481           1073           981           1070           1091           1022           1407           1322           728  |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NIP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D1750V3           D835V2           D1750V2           D1760V2           D1900V2           D1900V2           D2300V2           D4450V2           DAK-3.5           DAK-3.5           DAE4           DAE4           DAE4           DAE4           DAE4           DAE4           DAE4           DAE4           DAE4   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bidlectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" Ib)<br>750 Mriz SAR Dipole<br>835 Mriz SAR Dipole<br>1750 Mriz SAR Dipole<br>1750 Mriz SAR Dipole<br>1750 Mriz SAR Dipole<br>1750 Mriz SAR Dipole<br>1900 Mriz SAR Dipole<br>1900 Mriz SAR Dipole<br>1900 Mriz SAR Dipole<br>1900 Mriz SAR Dipole<br>2405 Mriz SAR Dipole<br>1900 Mriz SAR Dipole<br>1900 Mriz SAR Dipole<br>2405 Mriz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics   
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C8T<br>\$/23/2018<br>C8T<br>C8T<br>C8T<br>8/26/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/4/2019<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018 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CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/14/2020<br>10/14/2020<br>10/14/2020<br>10/14/2020<br>10/19/2020<br>5/14/2020<br>5/15/2020<br>5/15/2020<br>5/15/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020                               | N/A           1007           16642           1010           50080           50144           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1222           728           1333   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX166           CMW500           DX5073           D835V2           D1750V3           D1950V2           D1900V2           D1900V2           D2300V2           D2450V2           DAK-3.5           DAE4   
   
   
   
   
   
   
  | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Diasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics  
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C8T<br>5/23/2018<br>C8T<br>C8T<br>2/25/2019<br>8/27/2019<br>10/4/2019<br>10/4/2019<br>3/13/2018<br>3/13/2018<br>3/13/2018<br>3/13/2018<br>10/19/2028<br>5/15/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2018<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>10/23/2019<br>1 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CBT<br>5/23/2020<br>CBT<br>CBT<br>8/25/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>10/19/2020<br>10/19/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22/2020<br>10/22                               | N/A           10097           151849           21053           1118           1008           50300           504149           50700           1073           981           1070           1091           665           1272           1407           1322           728           1333           1558   |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>SreAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>S       | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW/S00           D/S00/2           D1500/2           D1500/2           D1900/2           D2300/2           D2450/2           DAK-3.5           DAK-3.5           DAE4   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Wedor Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Ster<br>Torque Wrench (8" lb)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>335 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics  
  | C8T<br>\$/23/2018<br>C8T<br>C8T<br>C8T<br>8/76/2019<br>8/77/2019<br>10/11/2019<br>7/12/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3 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                                | N/A           10097           1611           40133           1148           1008           50480           504149           50148           981           1070           1091           665           1272           728           1333           1538           1533   |  
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| Mini-Circuits<br>Pastemack<br>Pastemack<br>Pastemack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           D00002           D1755V2           D1350V2           D1900V2           D1900V2           D300V2           D4450V2           DAK-3.5           DAK-4           DAE4           DAE4 <tr t="">DAE4<!--</td--><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Status Communication Tester<br/>Torque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>2400 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2400 MHz SAR Dipole</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/47/2019<br/>10/47/2019<br/>10/47/2019<br/>10/47/2019<br/>3/13/2019<br/>3/13/2019<br/>10/19/2018<br/>3/13/2019<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/22/2018<br/>10/22/2019<br/>2/13/2019<br/>10/22/2019<br/>2/13/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2018<br/>10/22/2018<br/>10/22/2018<br/>10/22/2018<br/>10/22/2018<br/>10/22/2018<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22/2019<br/>10/22</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/26/2020<br/>8/27/2020<br/>10/41/2020<br/>10/41/2020<br/>10/11/2020<br/>10/11/2020<br/>3/13/2020<br/>10/19/2020<br/>3/13/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>2/14/2021<br/>2/13/2020<br/>2/14/2020<br/>2/14/2020<br/>1/11/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/2020<br/>1/13/202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          N/A           10087           151849           201307           4d047           4d133           1148           1008      
    5d149           5d800           5d149           5d980           1073           981           1070           1071           1070           1071           1070           1071           1222           124           1233           1558           1533           3914</td></tr> <tr><td>Mini-Circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohdre &amp; Schwarz<br/>Rohdre &amp; Schwarz<br/>Rohdre &amp; Schwarz<br/>Rohdre &amp; Schwarz<br/>Rohdre &amp; Schwarz<br/>Rohdre &amp; Schwarz<br/>SreAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>S</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW/S00           D/S00/2           D1500/2           D1500/2           D1900/2           D2300/2           D2450/2           DAK-3.5           DAK-3.5           DAE4           DAE4</td><td>Low Pass Filter DC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Wedor Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Ster<br/>Torque Wrench (8" lb)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>335 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition
Electronics</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/76/2019<br/>8/77/2019<br/>10/11/2019<br/>7/12/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2019<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3/13/2020<br/>3</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/26/2020<br/>8/27/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>5/10/2020<br/>5/15/2020<br/>5/15/2020<br/>5/15/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>8/16/2020<br/>5/17/2021<br/>10/22/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/13/2021<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/12/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/2020<br/>10/13/202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          N/A           11661           145645           1114           40133           1148           1008           50148           50148           1070           1091           665           1272           728           1333           1538           1533</td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Seekonk<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           D00002           D1755V2           D1350V2           D1900V2           D1900V2           D300V2           D4450V2           DAK-3.5           DAK-4           DAE4           DAE4      <tr t="">DAE4<!--</td--><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Status Communication Tester<br/>Torque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>2400 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2400 MHz SAR
Dipole</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/25/2019<br/>10/4/2019<br/>10/11/2019<br/>5/10/2018<br/>3/13/2019<br/>5/12/2018<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/12/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/201</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>8/27/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/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          N/A           100375           16642           151849           21033           11144           1008           50080           50149           50480           50719           981           1070           1071           1071           1072           1407           1322           728           1333           1558           1533           3914</td></tr><tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NIP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX15002           D1750V3           D1750V2           D1700V2           D1900V2           D1900V2           D2450V2           DAK-3.5           DAK-3.5           DAE4           DAE4</td><td>Low Pass Filter OC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bidlectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Torque Wrench (8" Ib)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition
Electronics</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/76/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2/018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/26/2020<br/>8/27/2020<br/>10/14/2020<br/>10/14/2020<br/>10/14/2020<br/>10/14/2020<br/>10/19/2020<br/>3/114/2020<br/>10/19/2020<br/>3/13/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/22/2020<br/>10/22/2020<br/>10/13/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/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          N/A           1008           20080           50143           5044           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1071           1071           1071           1071           1070           1071           1070           1071           1070           1070           <td< td=""></td<></td></tr><tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64</td><td>Low Pass Filter DC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Station Tester<br/>Wideband Radio Communication Tester<br/>Station Station Tester<br/>Wideband Radio Communication Tester<br/>Station Station Tester<br/>Station Station Tester<br/>Network Station Tester<br/>Station Station Station Tester<br/>Station Station Station Tester<br/>Torque Wrench (S' Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2000 MHz SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition
El</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/12/018<br/>3/13/2018<br/>10/19/2018<br/>3/13/2018<br/>10/19/2020<br/>5/15/2019<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/20</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<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          N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357</td></tr><tr><td>Mini-Circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Seekonk<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPE</td><td>NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           DC5003           D835V2           D1750V2           D1750V2           D1900V2           D2300V2           D2450V2           DAK-3.5           DAK-3.5           DAK-3.5           DAE4           DAE4      D</td><td>Low Pass Filter DC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio
Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Torque Wrench (8" lb)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electronics<br/>SAR Probe<br/>SAR Probe</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/11/2019<br/>10/11/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>1</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/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          N/A           10097           151642           1151           40133           145645           1148           1008           50600           50148           1070           1071           1070           1071           1072           728           1133           1533           1533           3914           1533           3549           1533           3549</td></tr><tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp;
Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64</td><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Yorque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1750 MHz SAR Dipole<br/>1750 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electron</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/12/018<br/>3/13/2018<br/>10/19/2018<br/>3/13/2018<br/>10/19/2020<br/>5/15/2019<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/20</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2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          N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357</td></tr></td></tr> | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>2400 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2400 MHz SAR Dipole   |
C8T<br>5/23/2018<br>C8T<br>C8T<br>C8T<br>8/26/2019<br>10/47/2019<br>10/47/2019<br>10/47/2019<br>10/47/2019<br>3/13/2019<br>3/13/2019<br>10/19/2018<br>3/13/2019<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/22/2018<br>10/22/2019<br>2/13/2019<br>10/22/2019<br>2/13/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22                                | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/41/2020<br>10/41/2020<br>10/11/2020<br>10/11/2020<br>3/13/2020<br>10/19/2020<br>3/13/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>2/14/2021<br>2/13/2020<br>2/14/2020<br>2/14/2020<br>1/11/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/202   | N/A           10087           151849           201307           4d047           4d133           1148           1008           5d149           5d800           5d149           5d980           1073           981           1070           1071           1070           1071           1070           1071           1222           124           1233           1558           1533           3914   | Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre &
Schwarz<br>SreAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>S | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW/S00           D/S00/2           D1500/2           D1500/2           D1900/2           D2300/2           D2450/2           DAK-3.5           DAK-3.5           DAE4              | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Wedor Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Ster<br>Torque Wrench (8" lb)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>335 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics  | C8T<br>\$/23/2018<br>C8T<br>C8T<br>C8T<br>8/76/2019<br>8/77/2019<br>10/11/2019<br>7/12/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3 | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual   |
CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>5/10/2020<br>5/15/2020<br>5/15/2020<br>5/15/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>8/16/2020<br>5/17/2021<br>10/22/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/13/2021<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/12/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020<br>10/13/2020   | N/A           11661           145645           1114           40133           1148           1008           50148           50148           1070           1091           665           1272           728           1333           1538           1533   | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   | NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           D00002           D1755V2           D1350V2           D1900V2           D1900V2           D300V2           D4450V2           DAK-3.5           DAK-4           DAE4           DAE4 <tr t="">DAE4<!--</td--><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Status Communication Tester<br/>Torque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>2400 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2400 MHz SAR
Dipole</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/25/2019<br/>10/4/2019<br/>10/11/2019<br/>5/10/2018<br/>3/13/2019<br/>5/12/2018<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/12/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/201</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>8/27/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/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          N/A           100375           16642           151849           21033           11144           1008           50080           50149           50480           50719           981           1070           1071           1071           1072           1407           1322           728           1333           1558           1533           3914</td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NIP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX15002           D1750V3           D1750V2           D1700V2           D1900V2           D1900V2           D2450V2           DAK-3.5           DAK-3.5           DAE4           DAE4</td><td>Low Pass Filter OC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bidlectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Torque Wrench (8" Ib)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition
Electronics</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/76/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2/018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/26/2020<br/>8/27/2020<br/>10/14/2020<br/>10/14/2020<br/>10/14/2020<br/>10/14/2020<br/>10/19/2020<br/>3/114/2020<br/>10/19/2020<br/>3/13/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/22/2020<br/>10/22/2020<br/>10/13/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/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          N/A           1008           20080           50143           5044           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1071           1071           1071           1071           1070           1071           1070           1071           1070           1070           <td< td=""></td<></td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64</td><td>Low Pass Filter DC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Station Tester<br/>Wideband Radio Communication Tester<br/>Station Station Tester<br/>Wideband Radio Communication Tester<br/>Station Station Tester<br/>Station Station Tester<br/>Network Station Tester<br/>Station Station Station Tester<br/>Station Station Station Tester<br/>Torque Wrench (S' Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2000 MHz SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition
El</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/12/018<br/>3/13/2018<br/>10/19/2018<br/>3/13/2018<br/>10/19/2020<br/>5/15/2019<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/20</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<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          N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357</td></tr> <tr><td>Mini-Circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Seekonk<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPE</td><td>NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           DC5003           D835V2           D1750V2           D1750V2           D1900V2           D2300V2           D2450V2           DAK-3.5           DAK-3.5           DAK-3.5           DAE4           DAE4      D</td><td>Low Pass Filter DC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio
Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Torque Wrench (8" lb)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electronics<br/>SAR Probe<br/>SAR Probe</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/11/2019<br/>10/11/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>1</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/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          N/A           10097           151642           1151           40133           145645           1148           1008           50600           50148           1070           1071           1070           1071           1072           728           1133           1533           1533           3914           1533           3549           1533           3549</td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp;
Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64</td><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Yorque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1750 MHz SAR Dipole<br/>1750 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electron</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/12/018<br/>3/13/2018<br/>10/19/2018<br/>3/13/2018<br/>10/19/2020<br/>5/15/2019<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/20</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2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          N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357</td></tr> | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>2400 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2400 MHz SAR Dipole   |
C8T<br>5/23/2018<br>C8T<br>C8T<br>C8T<br>8/25/2019<br>10/4/2019<br>10/11/2019<br>5/10/2018<br>3/13/2019<br>5/12/2018<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/12/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/201 | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/25/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>10/19/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/ | N/A           100375           16642           151849           21033           11144           1008           50080           50149           50480           50719           981           1070           1071           1071           1072           1407           1322           728           1333           1558           1533           3914 | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NIP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX15002           D1750V3           D1750V2           D1700V2           D1900V2           D1900V2           D2450V2           DAK-3.5           DAK-3.5           DAE4  | Low Pass Filter OC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bidlectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" Ib)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics |
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| N/A           1008           20080           50143           5044           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1071           1071           1071           1071           1070           1071           1070           1071           1070           1070 <td< td=""></td<> | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG          | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64 | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Station Tester<br>Wideband Radio Communication Tester<br>Station Station Tester<br>Wideband Radio Communication Tester<br>Station Station Tester<br>Station Station Tester<br>Network Station Tester<br>Station Station Station Tester<br>Station Station Station Tester<br>Torque Wrench (S' Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition El   |
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| N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357 | Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPE 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Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics<br>SAR Probe<br>SAR Probe |
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| N/A           10097           151642           1151           40133           145645           1148           1008           50600           50148           1070           1071           1070           1071           1072           728           1133           1533           1533           3914           1533           3549           1533           3549 | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64 | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Yorque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electron |
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| N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357 |
| Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>2400 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2400 MHz SAR Dipole   | C8T<br>5/23/2018<br>C8T<br>C8T<br>C8T<br>8/26/2019<br>10/47/2019<br>10/47/2019<br>10/47/2019<br>10/47/2019<br>3/13/2019<br>3/13/2019<br>10/19/2018<br>3/13/2019<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/19/2018<br>10/22/2018<br>10/22/2019<br>2/13/2019<br>10/22/2019<br>2/13/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2018<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22/2019<br>10/22   
   
   
   
   
   
   
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   | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/26/2020<br>8/27/2020<br>10/41/2020<br>10/41/2020<br>10/11/2020<br>10/11/2020<br>3/13/2020<br>10/19/2020<br>3/13/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>2/14/2021<br>2/13/2020<br>2/14/2020<br>2/14/2020<br>1/11/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/2020<br>1/13/202      | N/A           10087           151849           201307           4d047           4d133           1148           1008           5d149           5d800           5d149           5d980           1073           981           1070           1071           1070           1071           1070           1071           1222           124           1233           1558           1533           3914  |  |   |   
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>Rohdre & Schwarz<br>SreAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>S       | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW/S00           D/S00/2           D1500/2           D1500/2           D1900/2           D2300/2           D2450/2           DAK-3.5           DAK-3.5           DAE4   
   
   
   
   
   
   
   | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Wedor Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Ster<br>Torque Wrench (8" lb)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>335 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics  
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C8T<br>\$/23/2018<br>C8T<br>C8T<br>C8T<br>8/76/2019<br>8/77/2019<br>10/11/2019<br>7/12/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2019<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3/13/2020<br>3 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                                | N/A           11661           145645           1114           40133           1148           1008           50148           50148           1070           1091           665           1272           728           1333           1538           1533   |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           D00002           D1755V2           D1350V2           D1900V2           D1900V2           D300V2           D4450V2           DAK-3.5           DAK-4           DAE4           DAE4 <tr t="">DAE4<!--</td--><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Status Communication Tester<br/>Torque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2300 MHz SAR Dipole<br/>2400 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2400 MHz SAR Dipole</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/25/2019<br/>10/4/2019<br/>10/11/2019<br/>5/10/2018<br/>3/13/2019<br/>5/12/2018<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/15/2019<br/>5/12/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2018<br/>8/13/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2018<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/201</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>8/27/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/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          N/A           100375           16642           151849           21033           11144           1008           50080           50149           50480          
50719           981           1070           1071           1071           1072           1407           1322           728           1333           1558           1533           3914</td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NIP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX15002           D1750V3           D1750V2           D1700V2           D1900V2           D1900V2           D2450V2           DAK-3.5           DAK-3.5           DAE4           DAE4</td><td>Low Pass Filter OC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bidlectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Torque Wrench (8" Ib)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electronics</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/76/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2019<br/>10/1/2/018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19/2018<br/>10/19</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/26/2020<br/>8/27/2020<br/>10/14/2020<br/>10/14/2020<br/>10/14/2020<br/>10/14/2020<br/>10/19/2020<br/>3/114/2020<br/>10/19/2020<br/>3/13/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/22/2020<br/>10/22/2020<br/>10/13/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/2020<br/>11/12/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          N/A           1008           20080           50143           5044           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1071           1071           1071           1071           1070           1071           1070           1071           1070           1070           <td< td=""></td<></td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64</td><td>Low Pass Filter DC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Station Tester<br/>Wideband Radio Communication Tester<br/>Station Station Tester<br/>Wideband Radio Communication Tester<br/>Station Station Tester<br/>Station Station Tester<br/>Network Station Tester<br/>Station Station Station Tester<br/>Station Station Station Tester<br/>Torque Wrench (S'
Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>2000 MHz SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition El</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/12/018<br/>3/13/2018<br/>10/19/2018<br/>3/13/2018<br/>10/19/2020<br/>5/15/2019<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/20</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<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          N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357</td></tr> <tr><td>Mini-Circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Rohde &amp; Schwarz<br/>Seekonk<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPE</td><td>NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           DC5003           D835V2           D1750V2           D1750V2 
         D1900V2           D2300V2           D2450V2           DAK-3.5           DAK-3.5           DAK-3.5           DAE4           DAE4      D</td><td>Low Pass Filter DC to 2700 Mriz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Torque Wrench (8" lb)<br/>750 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>835 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1750 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2300 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>1900 Mrit SAR Dipole<br/>2400 Mrit SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electronics<br/>SAR Probe<br/>SAR Probe</td><td>C8T<br/>\$/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/11/2019<br/>10/11/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>10/12/2019<br/>1</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/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          N/A           10097           151642           1151           40133           145645           1148           1008           50600           50148           1070           1071           1070           1071           1072           728           1133           1533           1533           3914           1533           3549           1533           3549</td></tr> <tr><td>Mini-circuits<br/>Pasternack<br/>Pasternack<br/>Pasternack<br/>Rohde &amp; Schwarz<br/>Rohde &amp;
Schwarz<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG<br/>SPEAG</td><td>NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64</td><td>Low Pass Filter OC to 2700 MHz<br/>Torque Wrench<br/>Bildrectional Coupler<br/>Bildrectional Coupler<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Radio Communication Tester<br/>Vector Network Analyzer<br/>Wideband Radio Communication Tester<br/>Wideband Radio Communication Tester<br/>Yorque Wrench (8° Ib)<br/>750 MHz SAR Dipole<br/>835 MHz SAR Dipole<br/>1750 MHz SAR Dipole<br/>1750 MHz SAR Dipole<br/>1900 MHz SAR Dipole<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dielectric Assessment Kit<br/>Dasy Data Acquisition Electronics<br/>Dasy Data Acquisition Electron</td><td>C8T<br/>5/23/2018<br/>C8T<br/>C8T<br/>C8T<br/>8/26/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/4/2019<br/>10/12/018<br/>3/13/2018<br/>10/19/2018<br/>3/13/2018<br/>10/19/2020<br/>5/15/2019<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2018<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/2019<br/>10/23/20</td><td>N/A<br/>Biennial<br/>N/A<br/>N/A<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Biennial<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual<br/>Annual</td><td>CBT<br/>5/23/2020<br/>CBT<br/>CBT<br/>8/25/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/11/2020<br/>10/19/2020<br/>10/19/2020<br/>10/19/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2020<br/>10/23/2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          N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357</td></tr>  
   
   | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>2400 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2400 MHz SAR Dipole   
   | C8T<br>5/23/2018<br>C8T<br>C8T<br>C8T<br>8/25/2019<br>10/4/2019<br>10/11/2019<br>5/10/2018<br>3/13/2019<br>5/12/2018<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/12/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/201                              | N/A<br>Biennial<br>N/A<br>N/A<br>Annual<br>Annual<br>Annual<br>Annual<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Biennial<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual<br>Annual  | CBT<br>5/23/2020<br>CBT<br>CBT<br>8/25/2020<br>8/27/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/11/2020<br>10/19/2020<br>10/19/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/2020<br>10/23/                               | N/A           100375           16642           151849           21033           11144           1008           50080           50149           50480           50719           981           1070           1071           1071           1072           1407           1322           728           1333           1558           1533           3914  | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG   
  | NIP-2950+           NC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           DX15002           D1750V3           D1750V2           D1700V2           D1900V2           D1900V2           D2450V2           DAK-3.5           DAK-3.5           DAE4           DAE4 | Low Pass Filter OC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bidlectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" Ib)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics | 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| N/A           1008           20080           50143           5044           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1071           1071           1071           1071           1070           1071           1070           1071           1070           1070 <td< td=""></td<> | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG | NLP-2950+           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   | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Station Tester<br>Wideband Radio Communication Tester<br>Station Station Tester<br>Wideband Radio Communication Tester<br>Station Station Tester<br>Station Station Tester<br>Network Station Tester<br>Station Station Station Tester<br>Station Station Station Tester<br>Torque Wrench (S' Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition El | 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| N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357                               | Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde &
Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPE | NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           DC5003           D835V2           D1750V2           D1750V2           D1900V2           D2300V2           D2450V2           DAK-3.5           DAK-3.5           DAK-3.5           DAE4           DAE4      D | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" lb)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics<br>SAR Probe<br>SAR Probe  | C8T<br>\$/23/2018<br>C8T<br>C8T<br>C8T<br>8/26/2019<br>10/4/2019<br>10/11/2019<br>10/11/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>1 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| N/A           10097           151642           1151           40133           145645           1148           1008           50600           50148           1070           1071           1070           1071           1072           728           1133           1533           1533           3914           1533           3549           1533           3549   | Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64 | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Yorque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electron | 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| N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272 
         1322           728           1333           1558           1533           3914           7417           7357 |  |   |  |   |  
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| Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Status Communication Tester<br>Torque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2300 MHz SAR Dipole<br>2400 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2400 MHz SAR Dipole   | C8T<br>5/23/2018<br>C8T<br>C8T<br>C8T<br>8/25/2019<br>10/4/2019<br>10/11/2019<br>5/10/2018<br>3/13/2019<br>5/12/2018<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/15/2019<br>5/12/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2018<br>8/13/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2018<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/2019<br>10/12/201   
   
   
   
   
   
   
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  | Low Pass Filter OC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Bidlectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" Ib)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics  |
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                              | N/A           1008           20080           50143           5044           1073           961           1073           961           1073           961           1073           961           1073           961           1071           1071           1071           1071           1071           1071           1071           1070           1071           1070           1071           1070           1070 <td< td=""></td<> |  
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| Mini-circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG  | NLP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           CMW500           D2012           D105002           D17550V2           D1900V2           D1900V2           D1900V2           D2450V2           DA64           DA64      DA64           DA64   
   
   
   
   
   
   
  | Low Pass Filter DC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Station Tester<br>Wideband Radio Communication Tester<br>Station Station Tester<br>Wideband Radio Communication Tester<br>Station Station Tester<br>Station Station Tester<br>Network Station Tester<br>Station Station Station Tester<br>Station Station Station Tester<br>Torque Wrench (S' Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>2000 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition El   |
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                              | N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357  |  
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| Mini-Circuits<br>Pasternack<br>Pasternack<br>Pasternack<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Rohde & Schwarz<br>Seekonk<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPEAG<br>SPE | NIP-2950+           NIC-100           PF2208-6           PF2209-10           CMW500           DC5003           D835V2           D1750V2           D1750V2           D1900V2           D2300V2           D2450V2           DAK-3.5           DAK-3.5           DAK-3.5           DAE4           DAE4      D  
   
   
   
   
   
   
  | Low Pass Filter DC to 2700 Mriz<br>Torque Wrench<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Torque Wrench (8" lb)<br>750 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>835 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1750 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2300 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>1900 Mrit SAR Dipole<br>2400 Mrit SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electronics<br>SAR Probe<br>SAR Probe   |
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                              | N/A           10097           151642           1151           40133           145645           1148           1008           50600           50148           1070           1071           1070           1071           1072           728           1133           1533           1533           3914           1533           3549           1533           3549   |  
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  | Low Pass Filter OC to 2700 MHz<br>Torque Wrench<br>Bildrectional Coupler<br>Bildrectional Coupler<br>Radio Communication Tester<br>Radio Communication Tester<br>Radio Communication Tester<br>Vector Network Analyzer<br>Wideband Radio Communication Tester<br>Wideband Radio Communication Tester<br>Yorque Wrench (8° Ib)<br>750 MHz SAR Dipole<br>835 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1750 MHz SAR Dipole<br>1900 MHz SAR Dipole<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dielectric Assessment Kit<br>Dasy Data Acquisition Electronics<br>Dasy Data Acquisition Electron |
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                              | N/A           100976           116642           151849           21063           11148           1008           50080           504149           1007           1091           665           1272           1322           728           1333           1558           1533           3914           7417           7357  |  
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Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕒 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:				
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 63 of 67		
202	2020 PCTEST						

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#### 15 **MEASUREMENT UNCERTAINTIES**

a	с	d	e=	f	g	h =	i =	k
	Ĩ		f(d,k)		0	c x f/e	c x g/e	
	Tol.	Prob.	I(u,к)				Ŭ	
Uncostainty Component				Ci	C <sub>i</sub>	1gm	10gms	
Uncertainty Component	(± %)	Dist.	Div.	1gm	10 gms	u <sub>i</sub>	u <sub>i</sub>	Vi
Measurement System						(± %)	(± %)	
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	x
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	x
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	x
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	x
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	×
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	x
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	x
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	x
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	x
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	x
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	x
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	×
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	x
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	x
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	Ν	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	x
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	ŝ
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	x
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	x
Liquid Permittivity - Temperature Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	x
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	x
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	×
Combined Standard Uncertainty (k=1)	I	RSS		L	I	11.5	11.3	60
Expanded Uncertainty		k=2				23.0	22.6	
(95% CONFIDENCE LEVEL)								

	FCC ID: ZNFK300AM	<u>CAPCTEST</u>	SAR EVALUATION REPORT	LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:		D 04 (07		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 64 of 67		
202	020 PCTEST						

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# 16 CONCLUSION

# 16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕑 LG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 65 of 67
201	DO DOTEST				PEV 21.4 M

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09/11/2019

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	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager		
	Document S/N:	Test Dates:	DUT Type:		D 00 ( 07		
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 66 of 67		
202	020 PCTEST						

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	FCC ID: ZNFK300AM	PCTEST	SAR EVALUATION REPORT	🕕 LG	Approved by: Quality Manager	
	Document S/N:	Test Dates:	DUT Type:		Dogo 67 of 67	
	1M2001200008-01-R1.ZNF	01/21/20 - 2/10/20	Portable Handset		Page 67 of 67	
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