

FCC RADIO TEST REPORT FCC ID: 2AHZ5MAX3

Product : Smartphone Trade Mark : CUBOT Model Name : MAX 3 Family Model : N/A Report No. : S21090805203004

Prepared for

Shenzhen Huafurui Technology Co., Ltd

Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district,Shenzhen, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Huafurui Technology Co., Ltd
Address:	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district,Shenzhen, China
Manufacturer's Name:	Shenzhen Huafurui Technology Co., Ltd
Address:	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district,Shenzhen, China
Product description	
Product name : Model and/or type reference :	Smartphone MAX 3
Family Model :	N/A
Standards:	FCC Part15.407
Test procedure	ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01
equipment under test (EUT) is i	s been tested by NTEK, and the test results show that the n compliance with the FCC requirements/ the Industry Canada le only to the tested sample identified in the report.
This report shall not be reprodu	ced except in full, without the written approval of NTEK, this
•	ised by NTEK, personnel only, and shall be noted in the revision of
the document.	
Date of Test	
	Sep 09. 2021~Sep 27, 2021
Date of Issue	Sep 27, 2021
Test Result	Pass
Testing Engin	eer : 18Men bûn
	(Allen Liu)
Authorized Sig	(Alex Li)
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	Revision History					
Report No.	Version	Description	Issued Date			
S21090805203004	Rev.01	Initial issue of report	Sep 27, 2021			
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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E						
Standard Section	Test Item	Judgment	Remark			
15.207	AC Power Line Conducted Emissions	PASS				
15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(6)	Spurious Radiated Emissions	PASS				
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS				
15.407(e)	Minimum 6 dB bandwidth	PASS				
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS				
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS				
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS				
15.407(b)	Spurious Emissions at Antenna Terminals	PASS				
15.203	Antenna Requirement	PASS				
15.407(c)	Automatically discontinue transmission	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

Sile Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street,
	Bao'an District, Shenzhen 518126 P.R. China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty	
1	Conducted Emission Test	±2.80dB	
2	RF power, conducted	±0.16dB	
3	Spurious emissions, conducted	±0.21dB	
4	All emissions, radiated(30MHz~1GHz)	±2.64dB	
5	All emissions, radiated(1GHz~6GHz)	±2.40dB	
6	All emissions, radiated(>6GHz)	±2.52dB	
7	Temperature	±0.5°C	
8	Humidity	±2%	
9	All emissions, radiated(9KHz~30MHz)	±6dB	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone					
Trade Mark	CUBOT					
Model Name	MAX 3					
Family Model	N/A					
Model Difference	N/A					
FCC ID	2AHZ5MAX3					
Product Description	Mode Supported Data Rate Modulation Operating Frequency Range Number of Channels Antenna Type Antenna Gain Based on the applie Manual, More deta User's Manual.	N ⊠802.11a/n/ac (20MHz channel bandwidth) ⊠802.11n/ac (40MHz channel bandwidth) ⊠802.11ac (80MHz channel bandwidth) 802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11a: (6,9,12,18,24,36,48,54Mbps; 802.11a: (0,9,12,18,24,36,48,54Mbps; 802.11a: (VHT20)/HT40):MCS0-MCS15; 802.11ac(VHT20):MCS0-MCS8; 802.11ac(VHT40/VHT80):MCS0-MCS9; OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; ⊠5180-5240MHz for 802.11a/n(HT20)/ac(VHT20); 5180-5240MHz for 802.11a/n(HT40)/ac(VHT40); 5210MHz for 802.11a/n(HT40)/ac(VHT40); 5210MHz for 802.11a/n20/ac20 in the 5180-5240MHz band ; 2 channels for 802.11 a/0/ac40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; FPC Antenna 2dBi cation, features, or specification exhibited in User's ils of EUT technical specification, please refer to the				
- Catingo		Model: HJ-0502000W2-US				
Adapter	Input: 100-240V~50/60Hz 0.3A Output: 5V2000mA					
Connecting I/O	Please refer to the	Please refer to the User's Manual				
Port(s)	Flease lefer to the					
HW Version	TE839_MAIN_PCE	3_V1.2				
SW Version	CUOBT MAX 3 B	011C_V02_20210701				



Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- ². Frequency and Channel list for 802.11a/n/ac(20MHz) band I (5180-5240MHz):

	802.11a/n/ac(20MHz) Carrier Frequency Channel						
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band I (5190-5230MHz):

	802.11n/ac(40MHz) Carrier Frequency Channel						
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

Frequency and Channel list for 802.11ac(80MHz) band I (5210MHz):

	802.11ac(80MHz) Carrier Frequency Channel						
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
42	5210	-	-	-	-	-	-



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 /ac 20 CH36/ CH40/ CH 48
Mode 3	802.11n40 / ac40 CH38/ CH 46
Mode 4	802.11ac80 CH 42

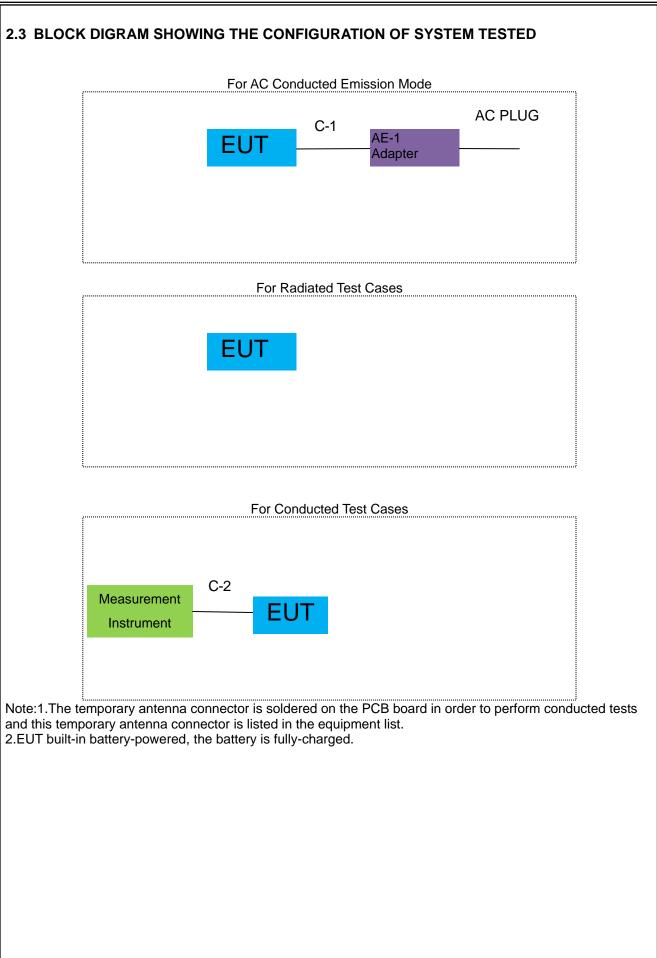
For Radiated Emission				
Final Test Mode	Description			
Mode 1	Normal Link Mode			
Mode 2	802.11a / n 20 /ac 20 CH36/ CH40/ CH 48			
Mode 3	802.11n40 / ac40 CH38/ CH 46			
Mode 4	802.11ac80 CH 42			

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported







2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	HJ-0502000W2-US	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in ^rLength _a column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.19	2021.11.18	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.19	2021.11.18	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Conduction Test equipment

<u> </u>							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.



3. TEST REQUIREMENTS

3.1CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

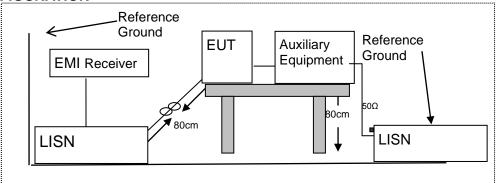
According to FCC Part 15.207(a) 3.1.2 CONFORMANCE LIMIT

	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support
 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for
 the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



3.1.5 TEST RESULTS

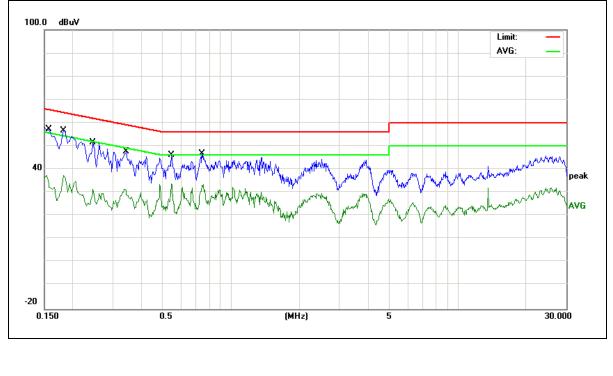
EUT :	Smartphone	Model Name :	MAX 3
Temperature :	·)·)·(]	Relative Humidity:	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demente
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	47.46	9.71	57.17	65.56	-8.39	QP
0.1580	37.62	9.71	47.33	55.56	-8.23	AVG
0.1819	47.01	9.67	56.68	64.39	-7.71	QP
0.1819	36.98	9.67	46.65	54.39	-7.74	AVG
0.2459	41.96	9.63	51.59	61.89	-10.30	QP
0.2459	31.62	9.63	41.25	51.89	-10.64	AVG
0.3458	38.06	9.63	47.69	59.06	-11.37	QP
0.3458	27.73	9.63	37.36	49.06	-11.70	AVG
0.5460	36.44	9.66	46.10	56.00	-9.90	QP
0.5460	26.92	9.66	36.58	46.00	-9.42	AVG
0.7459	37.10	9.74	46.84	56.00	-9.16	QP
0.7459	25.81	9.74	35.55	46.00	-10.45	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



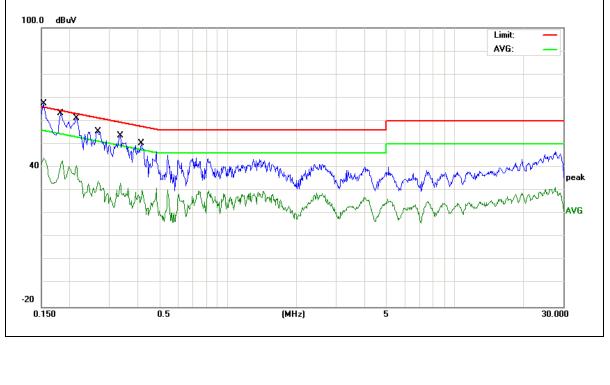


EUT :	Smartphone	Model Name :	MAX 3
Temperature :	100 Y	Relative Humidity:	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	50.48	9.63	60.11	65.78	-5.67	QP
0.1539	40.62	9.63	50.25	55.78	-5.53	AVG
0.1819	48.52	9.63	58.15	64.39	-6.24	QP
0.1819	38.73	9.63	48.36	54.39	-6.03	AVG
0.2139	46.02	9.63	55.65	63.05	-7.40	QP
0.2139	36.24	9.63	45.87	53.05	-7.18	AVG
0.2660	45.75	9.65	55.40	61.24	-5.84	QP
0.2660	36.04	9.65	45.69	51.24	-5.55	AVG
0.3339	43.96	9.67	53.63	59.35	-5.72	QP
0.3339	33.58	9.67	43.25	49.35	-6.10	AVG
0.4138	40.56	9.71	50.27	57.57	-7.30	QP
0.4138	31.03	9.71	40.74	47.57	-6.83	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

5
2
2
5

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

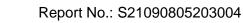
Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

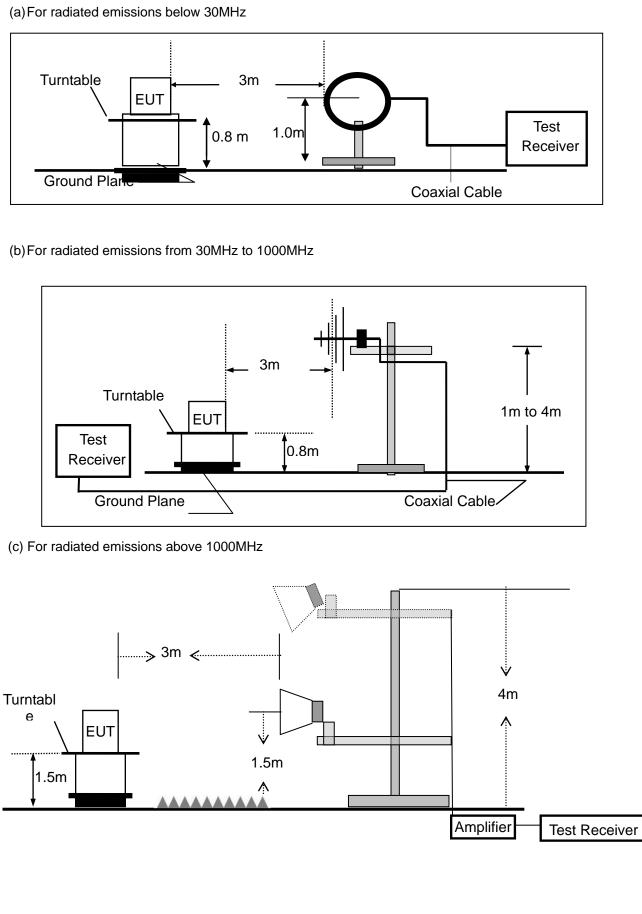
3.2.3 MEASURING INSTRUMENTS

The Measuring equipment is listed in the section 6.3 of this test report.





3.2.4 TEST CONFIGURATION





3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
AL	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

Report No.: S21090805203004



3.2.6 TEST RESULTS (9KHz - 30 MHz)

EUT:	Smartphone	Model Name. :	MAX 3
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	ТХ	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.2.7 TEST RESULTS (30MHz - 1GHz)

EUT :	Smartphone	Model Name. :	MAX 3
Temperature :	25 ℃	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX(5.2G)- 802.11a (Low CH)		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.2107	11.30	25.03	36.33	40.00	-3.67	QP
V	34.0363	12.57	22.05	34.62	40.00	-5.38	QP
V	48.1625	13.85	15.74	29.59	40.00	-10.41	QP
V	59.0251	17.54	11.54	29.08	40.00	-10.92	QP
V	84.4054	13.33	14.68	28.01	40.00	-11.99	QP
V	181.9199	13.68	16.33	30.01	43.50	-13.49	QP

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtomant
Н	33.7986	6.76	22.18	28.94	40.00	-11.06	QP
Н	86.2001	7.73	15.09	22.82	40.00	-17.18	QP
Н	140.3420	8.82	19.04	27.86	43.50	-15.64	QP
Н	159.7844	7.47	18.17	25.64	43.50	-17.86	QP
Н	191.7450	11.32	15.87	27.19	43.50	-16.31	QP
Н	261.9753	8.32	21.01	29.33	46.00	-16.67	QP
Emissio 72.	n Level = Meter 0 dBuV/m	Reading + F	actor, Mar	gin= Emission	Level - Limit	Limit:	
-8	1 Verriterer verren ver	2 mm///w/m///	3 4	5 ×		Margin: -	



3.2.8 TEST RESULTS (1GHz-18GHz)

				`	,						
EUT	:		Sm	artphone	;		Model N	lame. :	MAX 3	3	
Temp	erature	;	20	°C			Relative	Humidity	: 48%		
Press	sure :	ure : 1010 hPa						tage :	DC 3.8	35V	
Test N	Mode	:	TX((5.2G) - 8	302.11a _\$	5180~524	0MHz				
_			_								
	Polar	Freque	ency	Meter	Cable	Antenna	Preamp	Emission	Limits	Margin	Detector
	r olai	110900	incy	Reading	loss	Factor	Factor	Level		margin	Туре
	(H/V)	(MH	z)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
				•	Low (Channel (518	0 MHz)-Abov	/e 1G		•	•
V	/ertical	3694.	10	60.18	5.94	35.40	44.00	57.52	74.00	-16.48	Pk
V	/ertical	3694.	10	40.42	5.94	35.40	44.00	37.76	54.00	-16.24	AV
V	/ertical	10360	.15	59.91	8.46	39.75	44.50	63.62	68.20	-4.58	Pk
V	/ertical	15540	.22	60.49	10.12	38.80	44.10	65.31	74.00	-8.69	Pk
V	/ertical	15540	.22	40.15	10.12	38.80	42.70	46.37	54.00	-7.63	AV
Но	orizontal	3713.	00	59.11	5.94	35.18	44.00	56.23	74.00	-17.77	Pk
Но	orizontal	3713.	00	40.69	5.94	35.18	44.00	37.81	54.00	-16.19	AV
Но	orizontal	10360	.47	60.17	8.46	38.71	44.50	62.84	68.20	-5.36	Pk
Ho	orizontal	15540	.38	59.79	10.12	38.38	44.10	64.19	74.00	-9.81	Pk
Но	orizontal	15540	.38	40.13	10.12	38.38	44.10	44.53	54.00	-9.47	AV
					middle	Channel (52	00 MHz)-Abo	ove 1G			
V	/ertical	3624.	13	59.83	6.48	36.35	44.05	58.61	74.00	-15.39	Pk
V	/ertical	3624.	13	40.25	6.48	36.35	44.05	39.03	54.00	-14.97	AV
V	/ertical	10400	.09	60.85	8.47	37.88	44.51	62.69	68.20	-5.51	Pk
V	/ertical	15600	.15	60.16	10.12	38.80	44.10	64.98	74.00	-9.02	Pk
V	/ertical	15600	.15	40.94	10.12	38.80	42.70	47.16	54.00	-6.84	AV
Но	orizontal	4202.	14	60.55	6.48	36.37	44.05	59.35	74.00	-14.65	Pk
Но	orizontal	4202.	14	39.44	6.48	36.37	44.05	38.24	54.00	-15.76	AV
Но	orizontal	10400	.14	60.66	8.47	38.64	44.50	63.27	68.20	-4.93	Pk
Но	orizontal	15600	.51	60.18	10.12	38.38	44.10	64.58	74.00	-9.42	Pk
Но	orizontal	15600	.51	40.77	10.12	38.38	44.10	45.17	54.00	-8.83	AV

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	High Channel (5240 MHz)-Above 1G											
Vertical	4597.70	60.53	7.10	37.24	43.50	61.37	74.00	-12.63	Pk			
Vertical	4597.70	39.93	7.10	37.24	43.50	40.77	54.00	-13.23	AV			
Vertical	10480.23	60.69	8.46	37.68	44.50	62.33	68.20	-5.87	Pk			
Vertical	15720.15	59.66	10.12	38.80	44.10	64.48	74.00	-9.52	Pk			
Vertical	15720.15	39.44	10.12	38.80	42.70	45.66	54.00	-8.34	AV			
Horizontal	4589.26	59.02	7.10	37.24	43.50	59.86	74.00	-14.14	Pk			
Horizontal	4589.26	40.44	7.10	37.24	43.50	41.28	54.00	-12.72	AV			
Horizontal	10480.59	60.51	8.46	38.57	44.50	63.04	68.20	-5.16	Pk			
Horizontal	15720.18	59.68	10.12	38.38	44.10	64.08	74.00	-9.92	Pk			
Horizontal	15720.18	40.50	10.12	38.38	44.10	44.90	54.00	-9.10	AV			

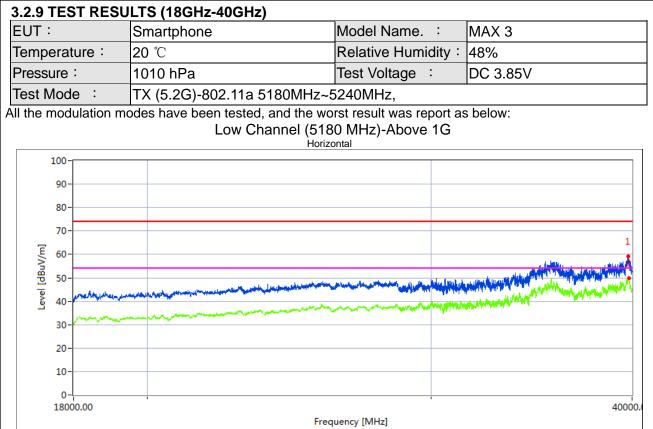
Note:"802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

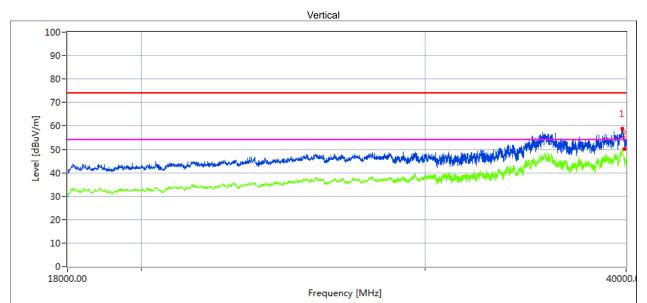
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.27	41.36	20.09	44.07	43.48	62.04	68.2	6.16	Peak
39767.19	28.38	20.09	44.04	43.48	49.03	54	4.97	AVG

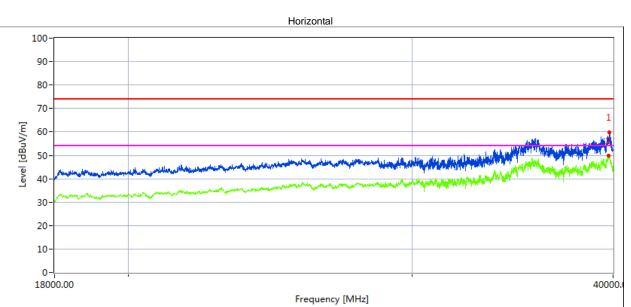


Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.546	43.21	20.09	44.07	43.48	63.89	68.2	4.31	Peak
39769.365	28.42	20.09	44.04	43.48	49.07	54	4.93	AVG

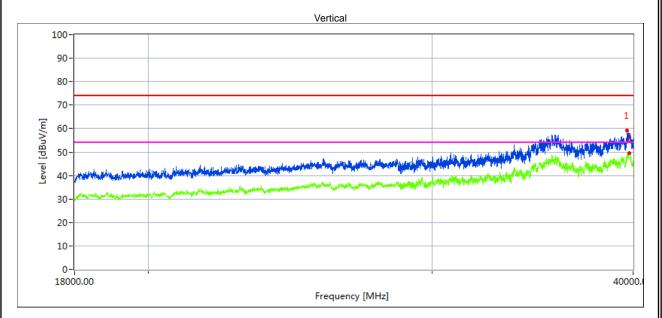


High Channel (5240 MHz)-Above 1G



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
35628.37	44.58	19.11	42.73	44.61	61.81	68.2	6.39	Peak
35596.986	30.00	19.11	42.73	44.61	47.23	54	6.77	AVG



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.476	43.66	20.09	44.07	43.48	64.34	68.2	3.86	Peak
39769.476	28.38	20.09	44.04	43.48	49.03	54	4.97	AVG



3.2.	.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz											
Ε	UT :	S	Smar	tphone			Model N	lame. :	MAX 3	MAX 3		
Т	emperature	e: 2	20 °C				Relative	e Humidity	: 48%	48%		
Ρ	ressure :	1	1010 hPa			Test Vol	tage :	DC 3.8	DC 3.85V			
Т	est Mode	: 1	TX (5.2G)-802.11n20 5150MHz~			~5250MH	-5250MHz,					
All	All the modulation modes have been tested, The report just record the worst data mode.											
, (II		Mete		Cable	Antenna	Preamp	Emission				-	1
	Frequency	Readi		Loss	Factor	Factor	Level	Limits	Margin	Detector	Comment	

	Reading	Loss	Factor	Factor	Level				Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				5.2G WIFI-	802.11a Mode	;			
4500	62.35	5.2	35.6	44.2	58.95	74	-15.05	Pk	Horizontal
4500	37.67	5.2	35.6	44.2	34.27	54	-19.73	AV	Horizontal
4500	62.74	5.2	35.6	44.2	59.34	74	-14.66	Pk	Horizontal
4500	32.62	5.2	35.6	44.2	29.22	54	-24.78	AV	Horizontal
5150	63.71	5.36	35.66	44.22	60.51	74	-13.49	Pk	Horizontal
5150	32.80	5.36	35.66	44.22	29.60	54	-24.40	AV	Horizontal
5150	62.37	5.36	35.66	44.22	59.17	74	-14.83	Pk	Vertical
5150	42.16	5.36	35.66	44.22	38.96	54	-15.04	AV	Vertical
5350	62.44	5.68	35.68	44.22	59.58	74	-14.42	Pk	Vertical
5350	33.27	5.68	35.68	44.22	30.41	54	-23.59	AV	Vertical
5350	63.64	5.68	35.68	44.22	60.78	74	-13.22	Pk	Horizontal
5350	37.77	5.68	35.68	44.22	34.91	54	-19.09	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11a " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.



3.3 POWER SPECTRAL DENSITY TEST

3.3.1 Applied procedures / limit

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW \geq 1/T, where T is defined in section II.B.I.a).

- b) Set VBW \geq 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add

10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add
 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

3.3.3 DEVIATION FROM STANDARD

No deviation.

3.3.4 TEST SETUP



3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULTS

EUT :	Smartphone	Model Name. :	MAX 3	
Temperature :	25 ℃	Relative Humidity :	56%	
Pressure :	1015 hPa	Test Voltage :	DC 3.85V	
Test Mode :	TX Frequency Band I (5150-5250MHz)			

Test data reference attachment.



3.4.1 Applied procedures / limit

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The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

3.4.2 TEST PROCEDURE

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

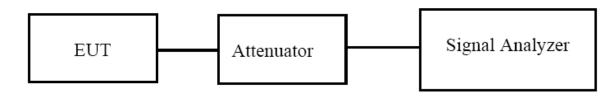
The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW \ge 3 \cdot RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.





3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 TEST RESULTS

EUT :	Smartphone	Model Name. :	MAX 3	
Temperature :	25 ℃	Relative Humidity :	56%	
Pressure :	1012 hPa	Test Voltage :	DC 3.85V	
Test Mode :	TX Frequency Band I (5150-5250MHz)			

Test data reference attachment.



β.5 MINIMUM 6 DB BANDWIDTH

3.5.1 Applied procedures / limit

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.5.2 TEST PROCEDURE

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

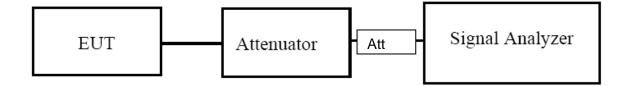
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 × RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 DEVIATION FROM STANDARD

No deviation.

3.5.4 TEST SETUP



3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.5.6 TEST RESULTS

EUT :	Smartphone	Model Name. :	MAX 3	
Temperature :	25 ℃	Relative Humidity :	60%	
Pressure :	1012 hPa	Test Voltage :	DC 3.85V	
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)			

Note: Not Applicable



β.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit		
5150~5250	250mW		
5725~5850	1W		

3.6.2 TEST PROCEDURE

• Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

• The EUT transmits continuously (or with a duty cycle ≥ 98 percent).

• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

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(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum



3.6.3 DEVIATION FROM STANDARD No deviation. 3.6.4 TEST SETUP Image: Constant of the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.6.6 TEST RESULTS

EUT :	Smartphone	Model Name. :	MAX 3			
Temperature :	25 ℃	Relative Humidity :	60%			
Pressure :	1012 hPa	Test Voltage :	DC 3.85V			
Test Mode :	TX (5G) Mode Frequency Band I (5150-5250MHz)					

Test data reference attachment.



β.7 OUT OF BAND EMISSIONS

3.7.1 Applicable Standard

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz above or below the band edge.

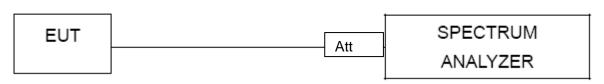
3.7.2 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

3.7.3 DEVIATION FROM STANDARD

No deviation.

3.7.4 TEST SETUP



3.7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.7.6 TEST RESULTS

EUT :	Smartphone	Model Name. :	MAX 3
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V

Test data reference attachment.



3.8 SPURIOUS RF CONDUCTED EMISSIONS

3.8.1Conformance Limit

According to FCC §15.407(b)(1) (2) (3) (4)

3.8.2Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

3.8.3Test Setup

Please refer to Section 6.1 of this test report.

3.8.4Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 40GHz.

3.8.5Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.



3.9 FREQUENCY STABILITY MEASUREMENT

β.9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

β.9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

2. EUT have transmitted absence of modulation signal and fixed channelize.

3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.

4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.

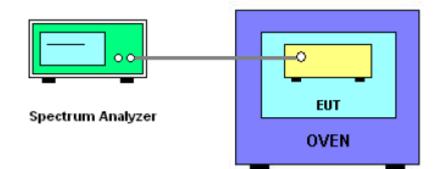
5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10_6 \text{ ppm}$.

6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the

nominal value

7. Extreme temperature is -20°C~70°C.

β.9.3 TEST SETUP LAYOUT



3.9.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.



3.9.5 TEST RESULTS

.0.0 TEOT RECOULT	0					
EUT :	Smartphone	Model Name. :	MAX 3			
Temperature :	25 ℃	Relative Humidity :	56%			
Pressure :	1012 hPa	Test Voltage :	DC 3.85V			
Test Mode :	TX Frequency Band I (5150-5250MHz)					

Voltage vs. Frequency Stability

				Reference Frequency: 5180MHz				
	TEO	T CONDITIONS	`			Max.	Max.	
	IES	T CONDITIONS)	f	fc	Deviation	Deviation	
						(MHz)	(ppm)	
Tnom		V nom (V)	3.85	5180.0034	5180	0.0034	-0.6629	
	20	V max (V)	4.2	5180.0058	5180	0.0058	-1.1138	
(°C)		V min (V)	3.4	5180.0069	5180	0.0069	-1.3244	
		Limits		Within 5150-5250MHz				
	Result				Complies			

Temperature vs. Frequency Stability

				Reference Frequency: 5180MHz			
- -		NDITIONS	`			Max.	Max.
1	ESIUC	INDITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5180.0057	5180	0.0057	-1.1024
		T (°C)	-10	5180.0025	5180	0.0025	-0.4732
	3.85	T (°C)	0	5180.0066	5180	0.0066	-1.2721
		T (°C)	10	5180.0069	5180	0.0069	-1.3295
V nom (V/)		T (°C)	20	5180.0040	5180	0.0040	-0.7776
V nom (V)		T (°C)	30	5180.0094	5180	0.0094	-1.8218
		T (°C)	40	5180.0028	5180	0.0028	-0.5404
		T (°C)	50	5180.0044	5180	0.0044	-0.8430
		T (°C)	60	5180.0098	5180	0.0098	-1.8916
		T (°C)	70	5180.0050	5180	0.0050	-0.9567
	Li	mits		Within 5150-5250MHz			
	Re	esult		Complies			



Voltage vs. Frequency Stability

				Reference Frequency: 5200MHz				
	TEO	T CONDITIONS	`			Max.	Max.	
	TEST CONDITIONS				fc	Deviation	Deviation	
						(MHz)	(ppm)	
Thom		V nom (V)	3.85	5200.0082	5200	0.0082	-1.5800	
	20	V max (V)	4.2	5200.0046	5200	0.0046	-0.8839	
(°C)		V min (V)	3.4	5200.0071	5200	0.0071	-1.3683	
	Limits				Within 5150-5250MHz			
	Result				Complies			

Temperature vs. Frequency Stability

				Refere	nce Frequ	uency: 5200	OMHz
- -		NDITIONS				Max.	Max.
	ESIUC	MDITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5200.0075	5200	0.0075	-1.4463
		T (°C)	-10	5200.0022	5200	0.0022	-0.4281
	3.85	T (°C)	0	5200.0091	5200	0.0091	-1.7476
		T (°C)	10	5200.0097	5200	0.0097	-1.8622
\/ nom (\/)		T (°C)	20	5200.0094	5200	0.0094	-1.8128
V nom (V)		T (°C)	30	5200.0066	5200	0.0066	-1.2748
		T (°C)	40	5200.0055	5200	0.0055	-1.0487
		T (°C)	50	5200.0019	5200	0.0019	-0.3717
		T (°C)	60	5200.0083	5200	0.0083	-1.5887
		T (°C)	70	5200.0037	5200	0.0037	-0.7171
	Limits			Within 5150-5250MHz			
	Result				Con	nplies	



Voltage vs. Frequency Stability

				Reference Frequency: 5240MHz				
	TEO	T CONDITIONS	`			Max.	Max.	
	TE3	T CONDITIONS)	f	fc	Deviation	Deviation	
						(MHz)	(ppm)	
Thom		V nom (V)	3.85	5240.0025	5240	0.0025	-0.4834	
	20	V max (V)	4.2	5240.0065	5240	0.0065	-1.2339	
(°C)		V min (V)	3.4	5240.0032	5240	0.0032	-0.6021	
	Limits				Within 5150-5250MHz			
	Result				Complies			

Temperature vs. Frequency Stability

				Refere	nce Frequ	iency: 524()MHz
Т		NDITIONS				Max.	Max.
1	ESTUC)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5240.0018	5240	0.0018	-0.3444
		T (°C)	-10	5240.0071	5240	0.0071	-1.3535
	3.85	T (°C)	0	5240.0062	5240	0.0062	-1.1907
		T (°C)	10	5240.0062	5240	0.0062	-1.1858
V nom (V)		T (°C)	20	5240.0092	5240	0.0092	-1.7631
v noni (v)		T (°C)	30	5240.0036	5240	0.0036	-0.6853
		T (°C)	40	5240.0094	5240	0.0094	-1.8004
		T (°C)	50	5240.0060	5240	0.0060	-1.1443
		T (°C)	60	5240.0009	5240	0.0009	-0.1797
		T (°C)	70	5240.0073	5240	0.0073	-1.3865
	Limits			Within 5150-5250MHz			
	Re	esult			Con	nplies	



4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2 EUT ANTENNA

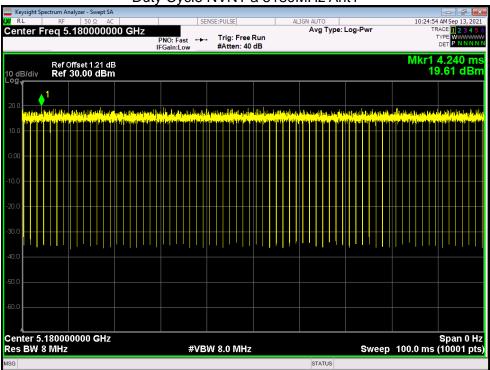
The EUT antenna is permanent attached FPC antenna (antenna gain: 2dBi). It comply with the standard requirement.



5. TEST RESULTS

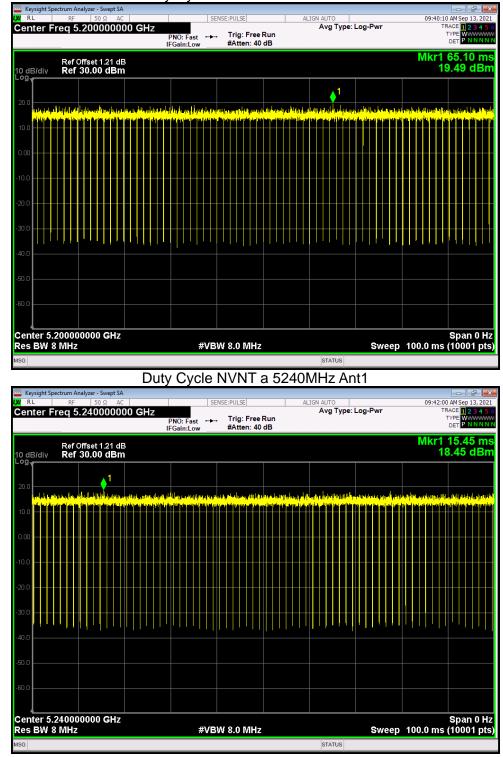
5.1 DUTY CYCLE

DOLLCICE					
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	а	5180	Ant1	97.6	0.11
NVNT	а	5200	Ant1	97.63	0.1
NVNT	а	5240	Ant1	97.58	0.11
NVNT	ac20	5180	Ant1	97.5	0.11
NVNT	ac20	5200	Ant1	97.45	0.11
NVNT	ac20	5240	Ant1	97.49	0.11
NVNT	ac40	5190	Ant1	95.1	0.22
NVNT	ac40	5230	Ant1	95.09	0.22
NVNT	ac80	5210	Ant1	90.73	0.42
NVNT	n20	5180	Ant1	97.41	0.11
NVNT	n20	5200	Ant1	97.41	0.11
NVNT	n20	5240	Ant1	97.44	0.11
NVNT	n40	5190	Ant1	95.07	0.22
NVNT	n40	5230	Ant1	95.09	0.22
	Condition NVNT NVNT NVNT NVNT NVNT NVNT NVNT NVN	ConditionModeNVNTaNVNTaNVNTac20NVNTac20NVNTac20NVNTac40NVNTac40NVNTac40NVNTac80NVNTn20NVNTn20NVNTn20NVNTn40	Condition Mode Frequency (MHz) NVNT a 5180 NVNT a 5200 NVNT a 5240 NVNT ac20 5180 NVNT ac20 5240 NVNT ac20 5200 NVNT ac20 5240 NVNT ac40 5190 NVNT ac40 5230 NVNT ac80 5210 NVNT n20 5180 NVNT n20 5240 NVNT n20 5210 NVNT n20 5240 NVNT n40 5190	Condition Mode Frequency (MHz) Antenna NVNT a 5180 Ant1 NVNT a 5200 Ant1 NVNT a 5240 Ant1 NVNT a 5240 Ant1 NVNT ac20 5180 Ant1 NVNT ac20 5200 Ant1 NVNT ac20 5240 Ant1 NVNT ac20 5240 Ant1 NVNT ac40 5190 Ant1 NVNT ac40 5230 Ant1 NVNT ac40 5230 Ant1 NVNT ac80 5210 Ant1 NVNT n20 5180 Ant1 NVNT n20 5200 Ant1 NVNT n20 5240 Ant1 NVNT n20 5240 Ant1 NVNT n20 5240 Ant1 NVNT n40 5190 Ant1 <td>Condition Mode Frequency (MHz) Antenna Duty Cycle (%) NVNT a 5180 Ant1 97.6 NVNT a 5200 Ant1 97.63 NVNT a 5240 Ant1 97.53 NVNT ac20 5180 Ant1 97.57 NVNT ac20 5240 Ant1 97.57 NVNT ac20 5200 Ant1 97.57 NVNT ac20 5240 Ant1 97.55 NVNT ac20 5240 Ant1 97.45 NVNT ac40 5190 Ant1 97.49 NVNT ac40 5230 Ant1 95.09 NVNT ac40 5230 Ant1 90.73 NVNT n20 5180 Ant1 97.41 NVNT n20 5200 Ant1 97.41 NVNT n20 5240 Ant1 97.41 NVNT n20 5240</td>	Condition Mode Frequency (MHz) Antenna Duty Cycle (%) NVNT a 5180 Ant1 97.6 NVNT a 5200 Ant1 97.63 NVNT a 5240 Ant1 97.53 NVNT ac20 5180 Ant1 97.57 NVNT ac20 5240 Ant1 97.57 NVNT ac20 5200 Ant1 97.57 NVNT ac20 5240 Ant1 97.55 NVNT ac20 5240 Ant1 97.45 NVNT ac40 5190 Ant1 97.49 NVNT ac40 5230 Ant1 95.09 NVNT ac40 5230 Ant1 90.73 NVNT n20 5180 Ant1 97.41 NVNT n20 5200 Ant1 97.41 NVNT n20 5240 Ant1 97.41 NVNT n20 5240



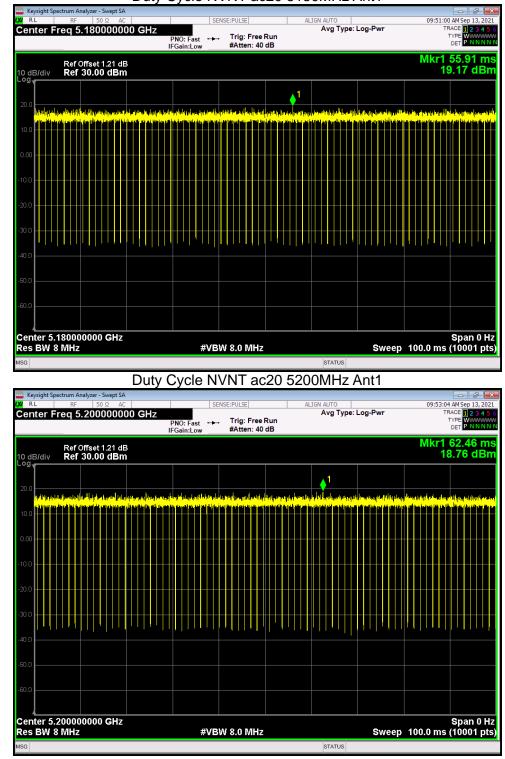
Duty Cycle NVNT a 5180MHz Ant1





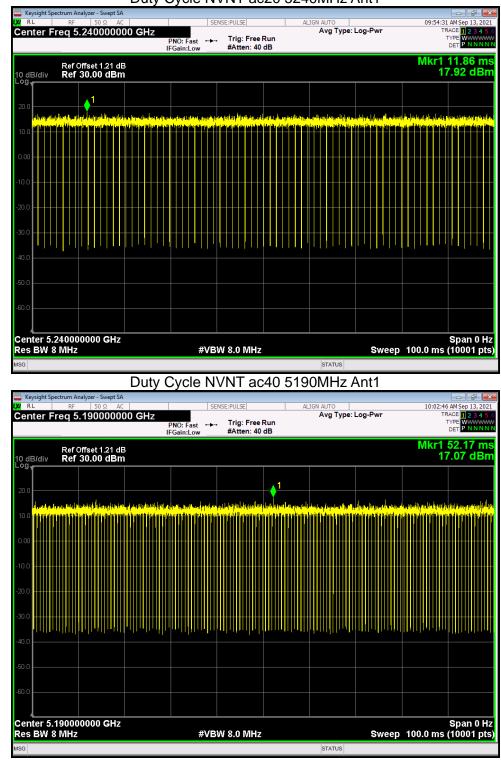
Duty Cycle NVNT a 5200MHz Ant1





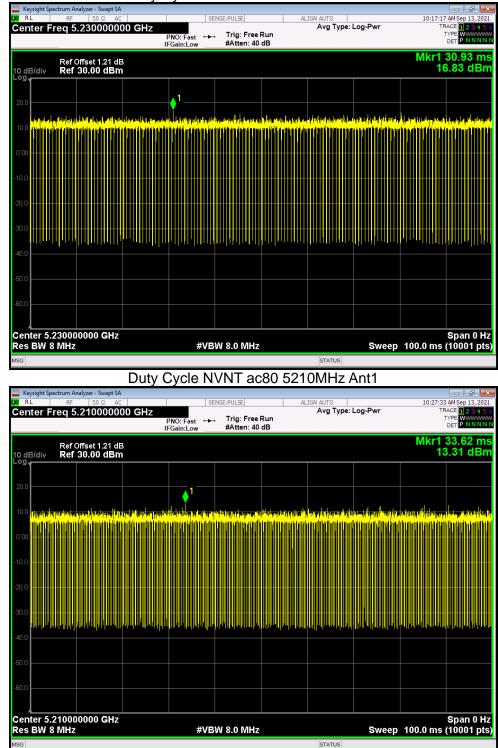
Duty Cycle NVNT ac20 5180MHz Ant1





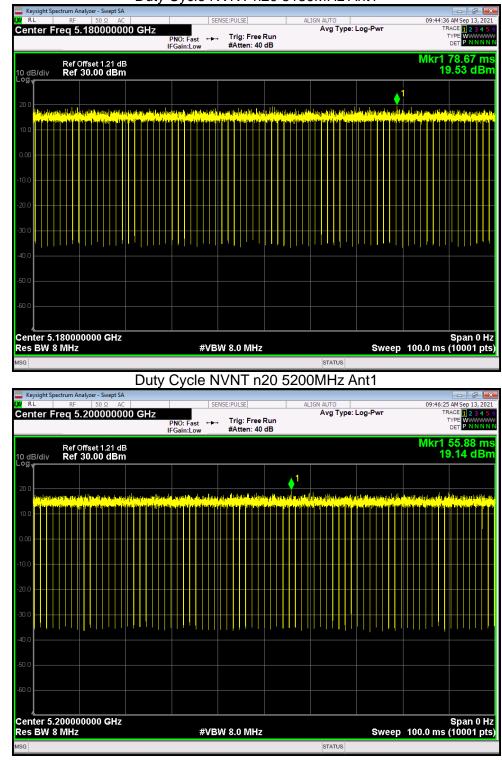
Duty Cycle NVNT ac20 5240MHz Ant1





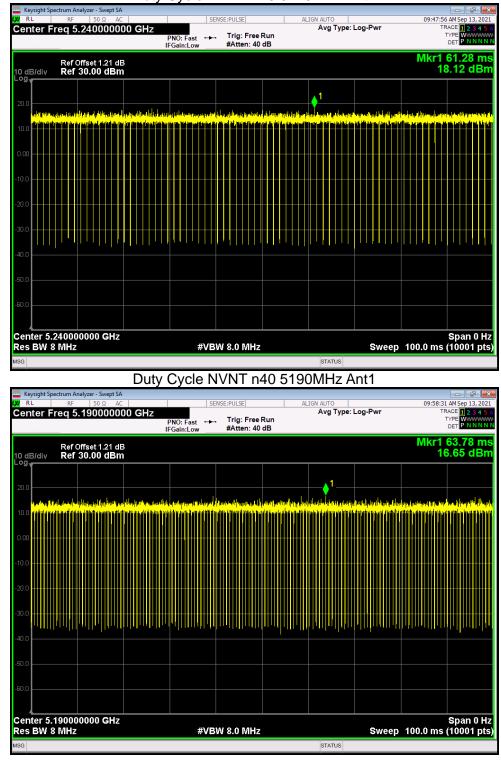
Duty Cycle NVNT ac40 5230MHz Ant1





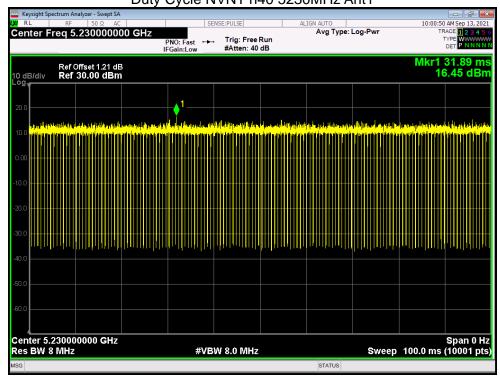
Duty Cycle NVNT n20 5180MHz Ant1





Duty Cycle NVNT n20 5240MHz Ant1





Duty Cycle NVNT n40 5230MHz Ant1



5.2 MAXIMUM CONDUCTED OUTPUT POWER

p.2 MAXIMUM	2 MAXIMUM CONDUCTED OUTPUT POWER									
Condition	Mode	Frequency	Antenna	Conducted	Duty	Total	Limit	Verdict		
		(MHz)		Power	Factor	Power	(dBm)			
				(dBm)	(dB)	(dBm)				
NVNT	а	5180	Ant1	10.604	0.11	10.714	24	Pass		
NVNT	а	5200	Ant1	10.295	0.1	10.395	24	Pass		
NVNT	а	5240	Ant1	9.914	0.11	10.024	24	Pass		
NVNT	ac20	5180	Ant1	10.365	0.11	10.475	24	Pass		
NVNT	ac20	5200	Ant1	10.387	0.11	10.497	24	Pass		
NVNT	ac20	5240	Ant1	9.618	0.11	9.728	24	Pass		
NVNT	ac40	5190	Ant1	10.202	0.22	10.422	24	Pass		
NVNT	ac40	5230	Ant1	9.591	0.22	9.811	24	Pass		
NVNT	ac80	5210	Ant1	8.94	0.42	9.36	24	Pass		
NVNT	n20	5180	Ant1	10.465	0.11	10.575	24	Pass		
NVNT	n20	5200	Ant1	10.273	0.11	10.383	24	Pass		
NVNT	n20	5240	Ant1	9.766	0.11	9.876	24	Pass		
NVNT	n40	5190	Ant1	10.173	0.22	10.393	24	Pass		
NVNT	n40	5230	Ant1	9.584	0.22	9.804	24	Pass		

5.3 -26DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	а	5180	Ant1	19.54	Pass
NVNT	а	5200	Ant1	19.583	Pass
NVNT	а	5240	Ant1	19.588	Pass
NVNT	ac20	5180	Ant1	20.154	Pass
NVNT	ac20	5200	Ant1	19.975	Pass
NVNT	ac20	5240	Ant1	20.113	Pass
NVNT	ac40	5190	Ant1	40.283	Pass
NVNT	ac40	5230	Ant1	42.699	Pass
NVNT	ac80	5210	Ant1	80.22	Pass
NVNT	n20	5180	Ant1	20.09	Pass
NVNT	n20	5200	Ant1	20.047	Pass
NVNT	n20	5240	Ant1	21.769	Pass
NVNT	n40	5190	Ant1	41.979	Pass
NVNT	n40	5230	Ant1	42.091	Pass

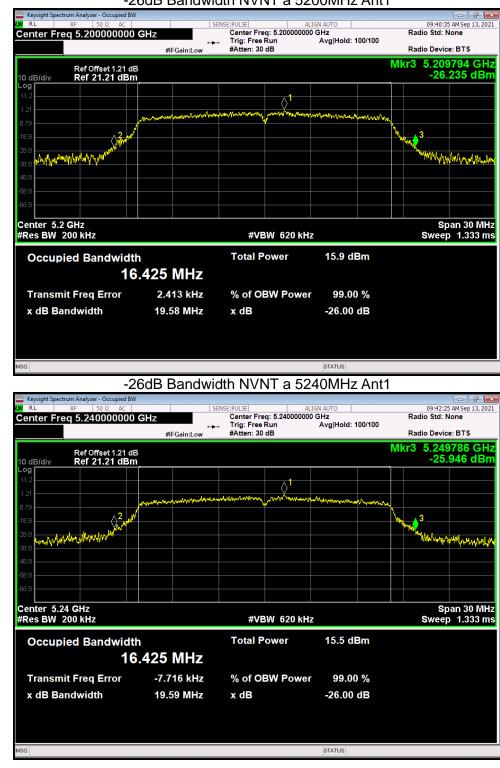
-26dB Bandwidth NVNT a 5180MHz Ant1



Report No.: S21090805203004

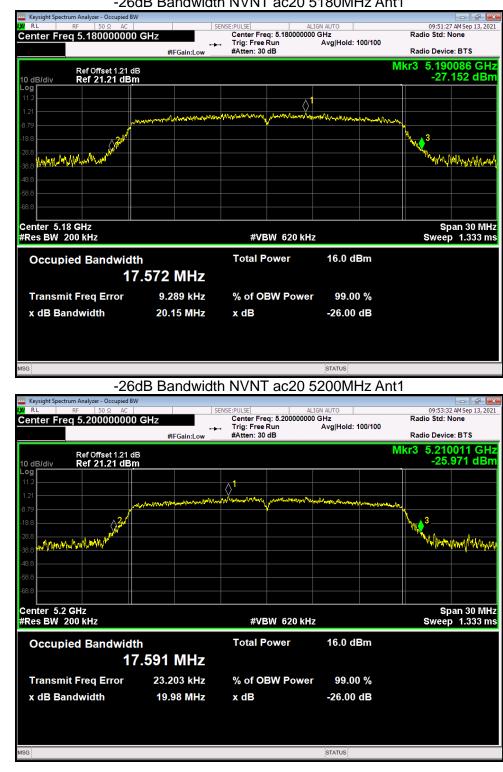
Keysight Spectrum Analyzer - Occupied BW K RL RF 50 Ω AC Center Freq 5.180000000	9	Center Freq: 5.1800000	ALIGN AUTO 00 GHz Avg Hold: 100/100	10:25:28 AM Sep 13, 2 Radio Std: None Radio Device: BTS
Ref Offset 1.21 dt	3	#Atten: 00 dB		Mkr3 5.18979 G
10 dB/div Ref 21.21 dBm				-27.689 dE
11.2		≬ ¹		
-8.79	And an and have been and the second second	and the second and the second s	munionalitation	N
-18.8				3
-28.8				WWWWWWWWWWW
-48.8				
-58.8				
-68.8				
Center 5.18 GHz #Res BW 200 kHz		#VBW 620 kH	Iz	Span 30 M Sweep 1.333
Occupied Bandwidt	h	Total Power	16.2 dBm	
16	.406 MHz			
Transmit Freq Error	19.940 kHz	% of OBW Powe	r 99.00 %	
x dB Bandwidth	19.54 MHz	x dB	-26.00 dB	





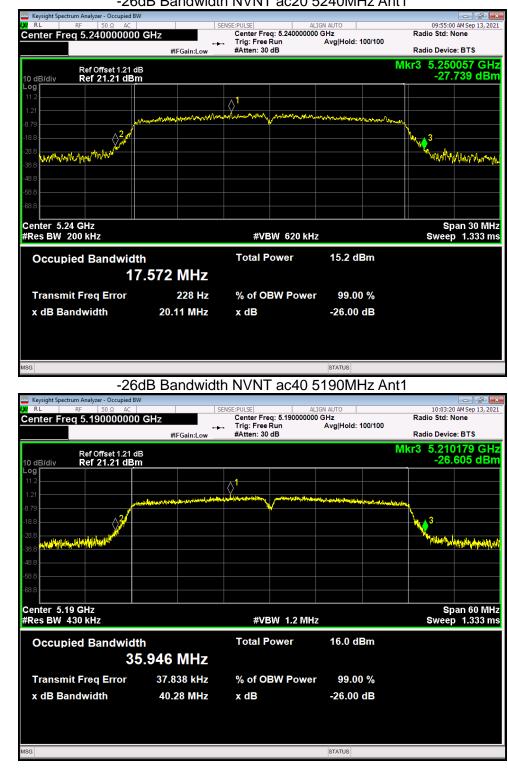
-26dB Bandwidth NVNT a 5200MHz Ant1





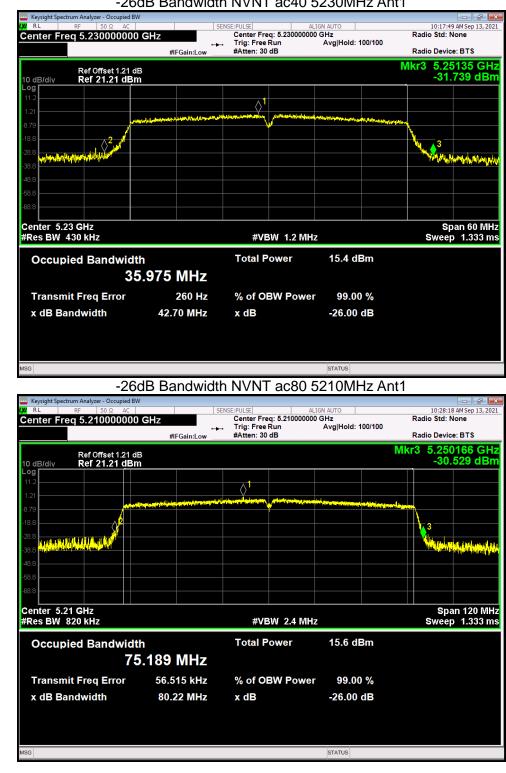
-26dB Bandwidth NVNT ac20 5180MHz Ant1





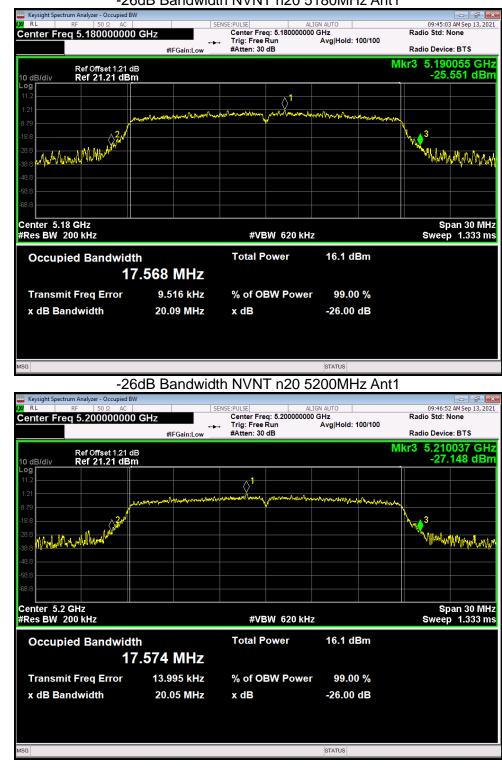
-26dB Bandwidth NVNT ac20 5240MHz Ant1





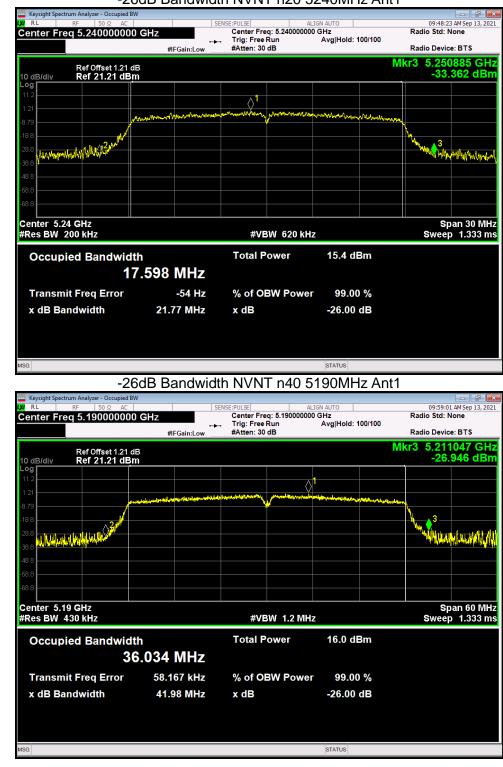
-26dB Bandwidth NVNT ac40 5230MHz Ant1





-26dB Bandwidth NVNT n20 5180MHz Ant1





-26dB Bandwidth NVNT n20 5240MHz Ant1



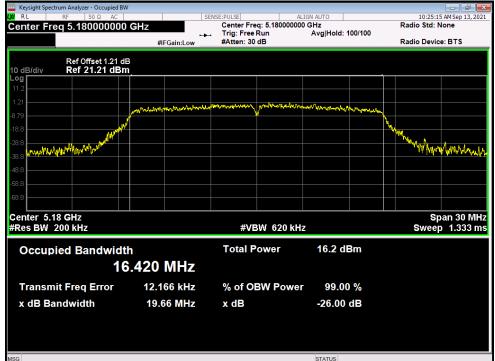
-26dB Bandwidth NVNT n40 5230MHz Ant1 - Oc Keysight Sp 10:01:21 AM Sep 13, 2021 Radio Std: None RI EPULSE ALIGN AUT Center Freq: 5.230000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 5.230000000 GHz Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Mkr3 5.251051 GHz -29.161 dBm Ref Offset 1.21 dB Ref 21.21 dBm 10 dB/div og \Diamond^1 Willer May we had been Span 60 MHz Sweep 1.333 ms Center 5.23 GHz #Res BW 430 kHz #VBW 1.2 MHz **Total Power** 15.4 dBm **Occupied Bandwidth** 35.996 MHz 5.535 kHz Transmit Freq Error % of OBW Power 99.00 % x dB Bandwidth 42.09 MHz x dB -26.00 dB ISG STATUS



5.4 OCCUPIED CHANNEL BANDWIDTH

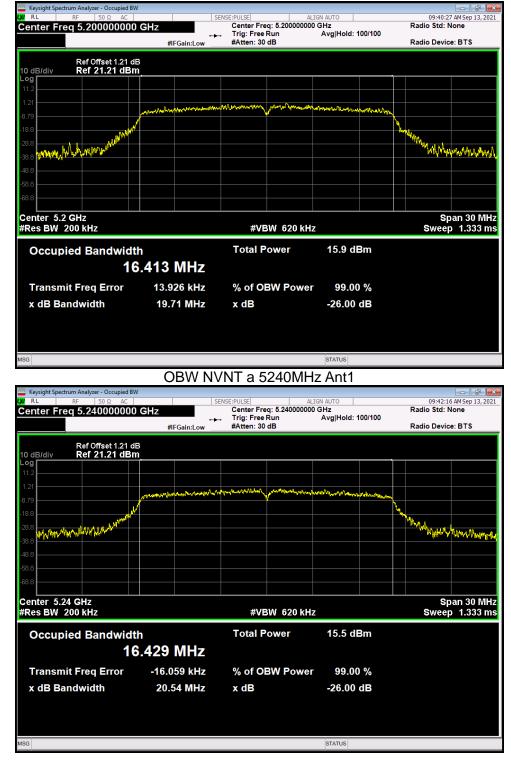
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	а	5180	Ant1	16.42
NVNT	а	5200	Ant1	16.413
NVNT	а	5240	Ant1	16.429
NVNT	ac20	5180	Ant1	17.556
NVNT	ac20	5200	Ant1	17.546
NVNT	ac20	5240	Ant1	17.577
NVNT	ac40	5190	Ant1	35.997
NVNT	ac40	5230	Ant1	36.005
NVNT	ac80	5210	Ant1	75.197
NVNT	n20	5180	Ant1	17.557
NVNT	n20	5200	Ant1	17.576
NVNT	n20	5240	Ant1	17.575
NVNT	n40	5190	Ant1	35.989
NVNT	n40	5230	Ant1	36.051

OBW NVNT a 5180MHz Ant1





OBW NVNT a 5200MHz Ant1





OBW NVNT ac20 5180MHz Ant1 Keysight Spectrum Analyz - Occ 09:51:18 AM Sep 13, 2021 Radio Std: None RL EPULSE ALIGN AUT Center Freq: 5.180000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 5.180000000 GHz Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Ref Offset 1.21 dB Ref 21.21 dBm 10 dB/div and the work of the second Wishing a mandalahan Center 5.18 GHz #Res BW 200 kHz Span 30 MHz Sweep 1.333 ms #VBW 620 kHz Total Power **Occupied Bandwidth** 16.0 dBm 17.556 MHz 4.341 kHz **Transmit Freq Error** % of OBW Power 99.00 % x dB Bandwidth 20.00 MHz x dB -26.00 dB STATUS OBW NVNT ac20 5200MHz Ant1 Kev 09:53:22 AM Sep 13, 2021 Radio Std: None -CENTRY CONTRACTOR CONT Center Freq 5.200000000 GHz Avg|Hold: 100/100 #IFGain:Low Radio Device: BTS Ref Offset 1.21 dB Ref 21.21 dBm 10 dB/div .og hour water water water When the man and provided the Span 30 MHz Sweep 1.333 ms Center 5.2 GHz #Res BW 200 kHz #VBW 620 kHz **Total Power** 16.1 dBm **Occupied Bandwidth** 17.546 MHz Transmit Freq Error 15.205 kHz % of OBW Power 99.00 %

-26.00 dB

STATUS

x dB Bandwidth

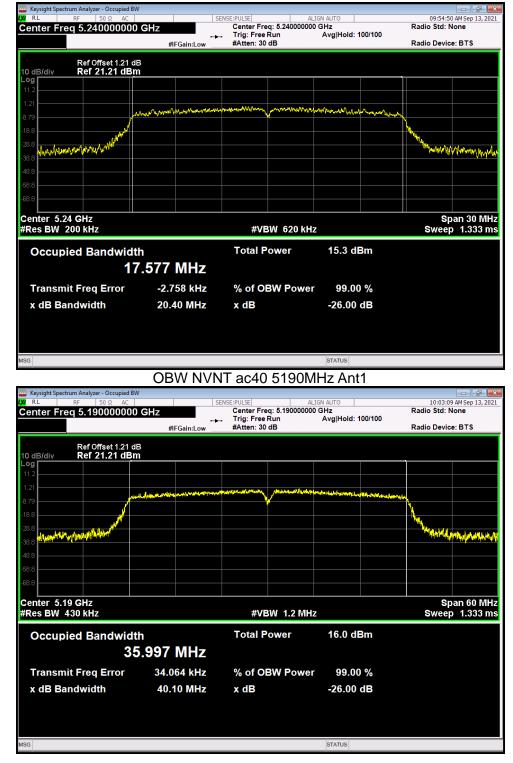
ISG

20.03 MHz

x dB

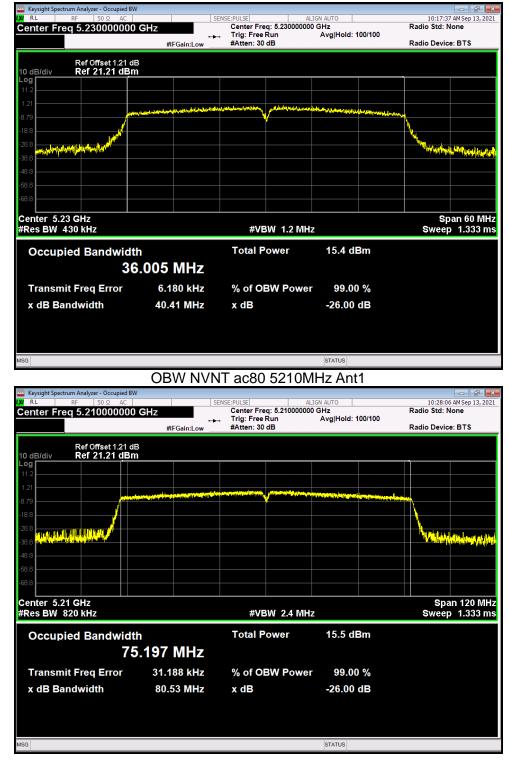


OBW NVNT ac20 5240MHz Ant1



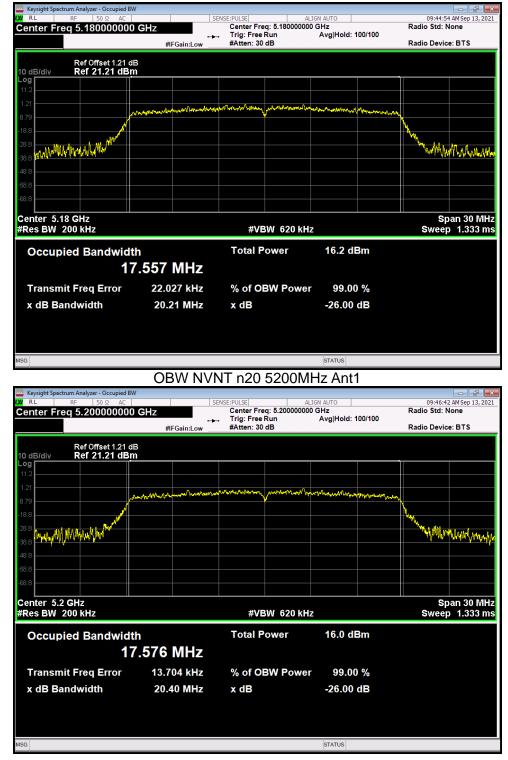


OBW NVNT ac40 5230MHz Ant1



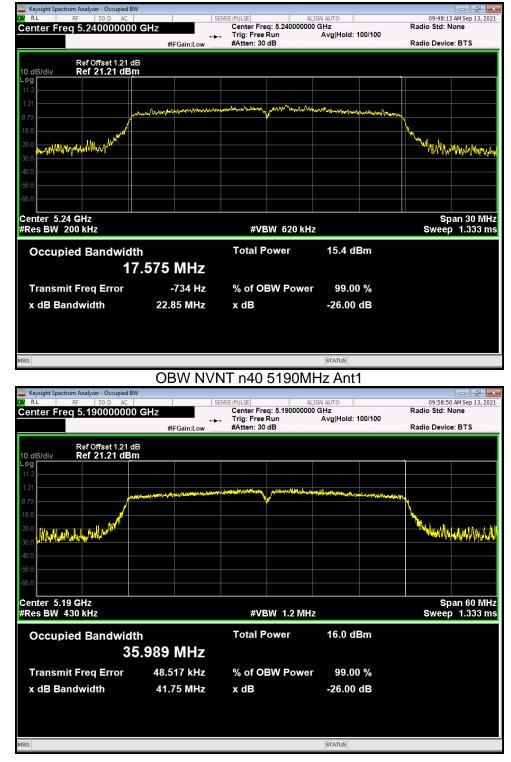


OBW NVNT n20 5180MHz Ant1



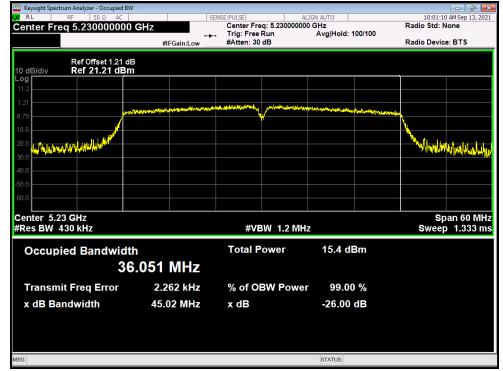


OBW NVNT n20 5240MHz Ant1





OBW NVNT n40 5230MHz Ant1





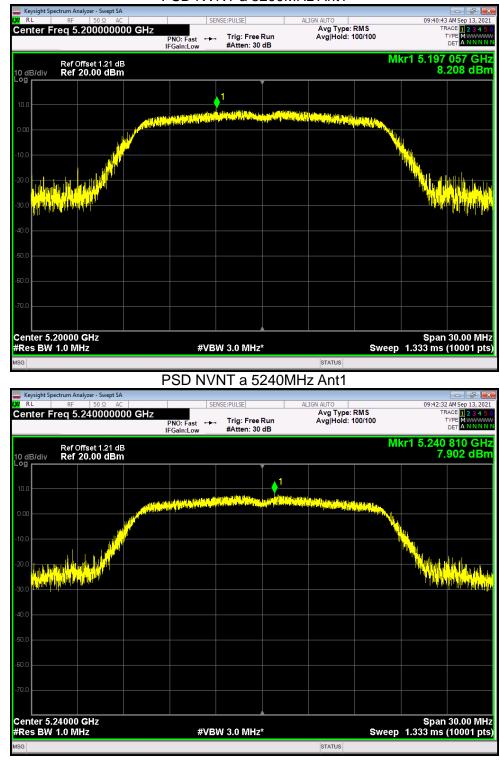
5.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict			
NVNT	а	5180	Ant1	8.267	11	Pass			
NVNT	а	5200	Ant1	8.208	11	Pass			
NVNT	а	5240	Ant1	7.902	11	Pass			
NVNT	ac20	5180	Ant1	7.881	11	Pass			
NVNT	ac20	5200	Ant1	8.079	11	Pass			
NVNT	ac20	5240	Ant1	7.121	11	Pass			
NVNT	ac40	5190	Ant1	5.317	11	Pass			
NVNT	ac40	5230	Ant1	4.275	11	Pass			
NVNT	ac80	5210	Ant1	0.787	11	Pass			
NVNT	n20	5180	Ant1	8.247	11	Pass			
NVNT	n20	5200	Ant1	8.834	11	Pass			
NVNT	n20	5240	Ant1	7.292	11	Pass			
NVNT	n40	5190	Ant1	5.008	11	Pass			
NVNT	n40	5230	Ant1	5.175	11	Pass			

Keysight Spectrum Analyzer - Swept SA 10:25:39 AM Sep 13, 20 TRACE 1 2 3 4 TYPE MWWW DET A NNN Avg Type: RMS Avg|Hold: 100/100 Center Freq 5.180000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 5.181 197 GHz 8.267 dBm Ref Offset 1.21 dB Ref 20.00 dBm 10 dB/div Log 1 to the YU A. U. D.U ildin<u>alitetusi i</u>l يأبيل المرأر Center 5.18000 GHz #Res BW 1.0 MHz Span 30.00 MHz Sweep 1.333 ms (10001 pts) #VBW 3.0 MHz* STATUS

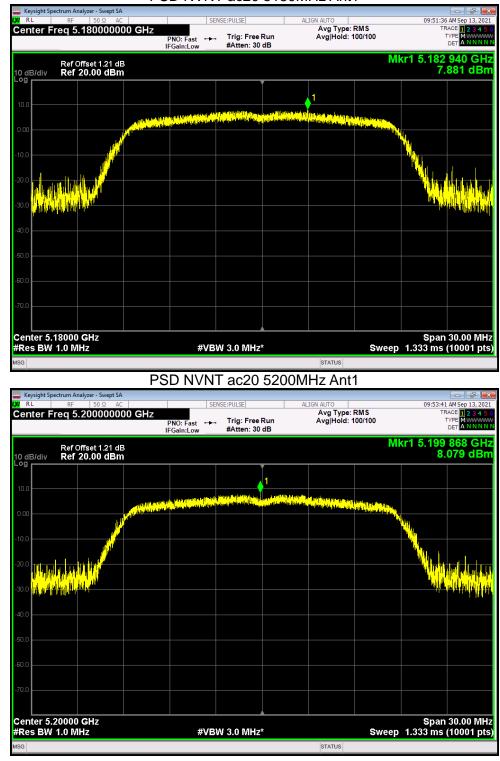
PSD NVNT a 5180MHz Ant1





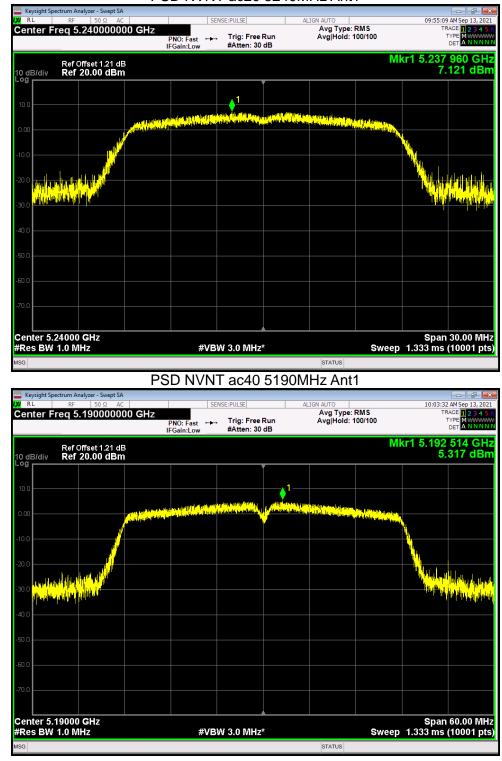
PSD NVNT a 5200MHz Ant1





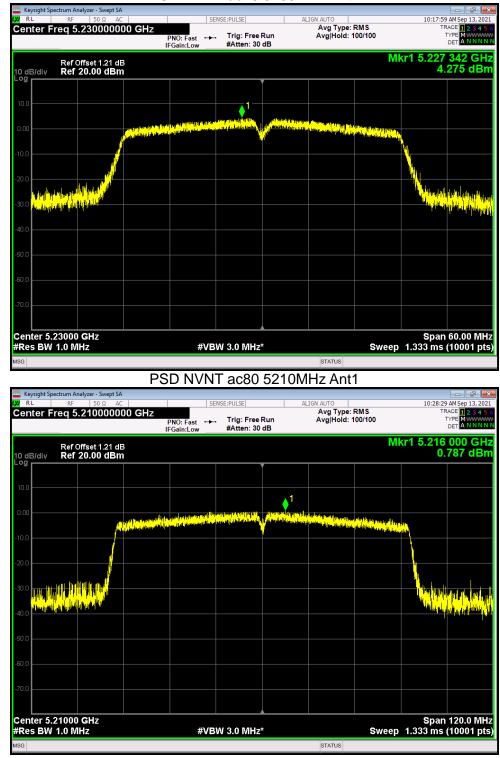
PSD NVNT ac20 5180MHz Ant1





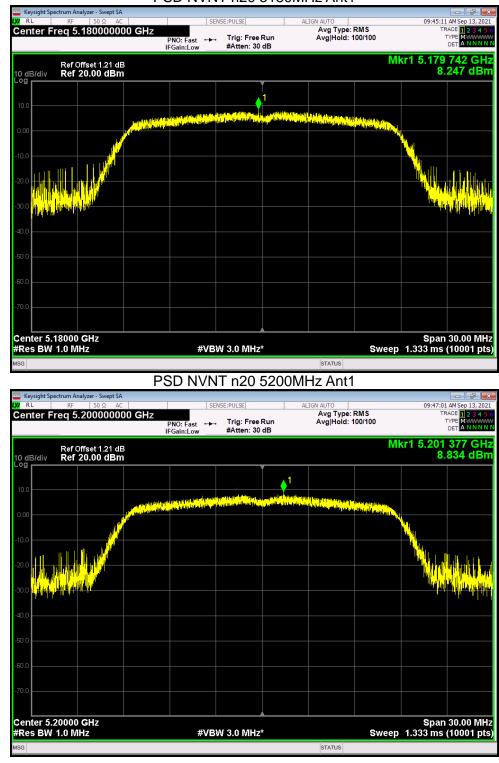
PSD NVNT ac20 5240MHz Ant1





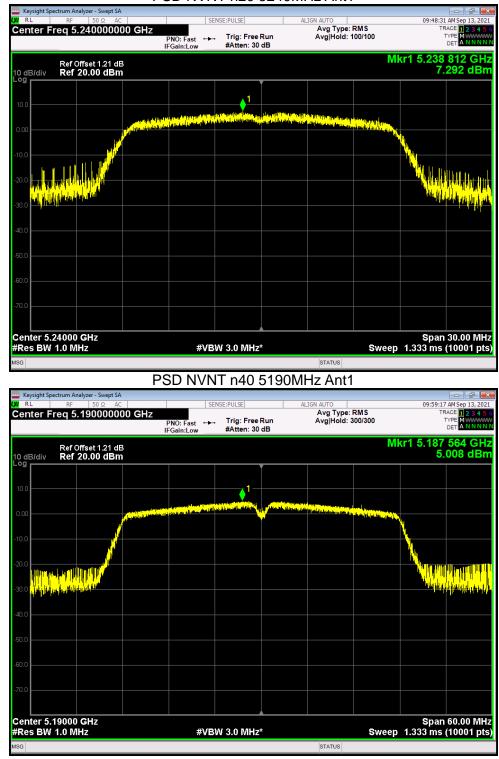
PSD NVNT ac40 5230MHz Ant1





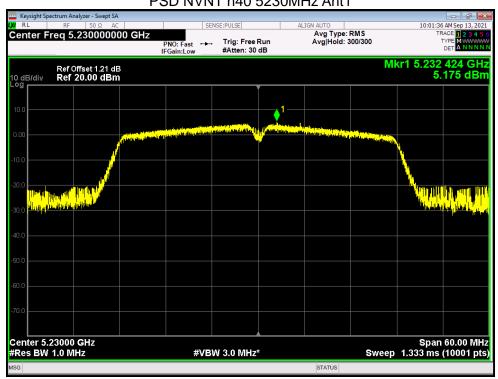
PSD NVNT n20 5180MHz Ant1





PSD NVNT n20 5240MHz Ant1





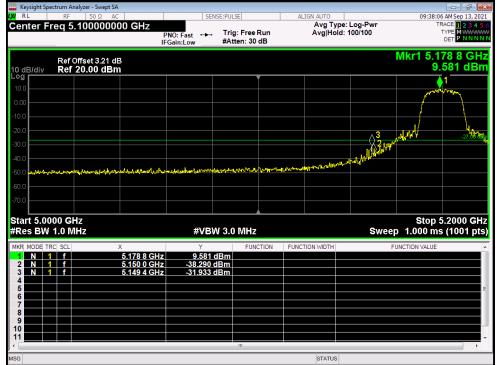
PSD NVNT n40 5230MHz Ant1



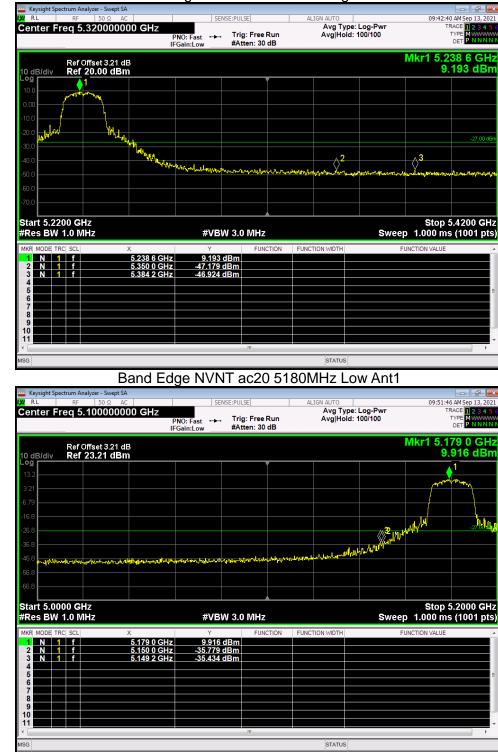
5.6 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	а	5180	Ant1	-31.93	-27	Pass
NVNT	а	5240	Ant1	-46.92	-27	Pass
NVNT	ac20	5180	Ant1	-35.43	-27	Pass
NVNT	ac20	5240	Ant1	-46.46	-27	Pass
NVNT	ac40	5190	Ant1	-27.9	-27	Pass
NVNT	ac40	5230	Ant1	-50.89	-27	Pass
NVNT	ac80	5210	Ant1	-28.87	-27	Pass
NVNT	ac80	5210	Ant1	-45.67	-27	Pass
NVNT	n20	5180	Ant1	-33.27	-27	Pass
NVNT	n20	5240	Ant1	-46.81	-27	Pass
NVNT	n40	5190	Ant1	-29.16	-27	Pass
NVNT	n40	5230	Ant1	-46.5	-27	Pass

Band Edge NVNT a 5180MHz Low Ant1



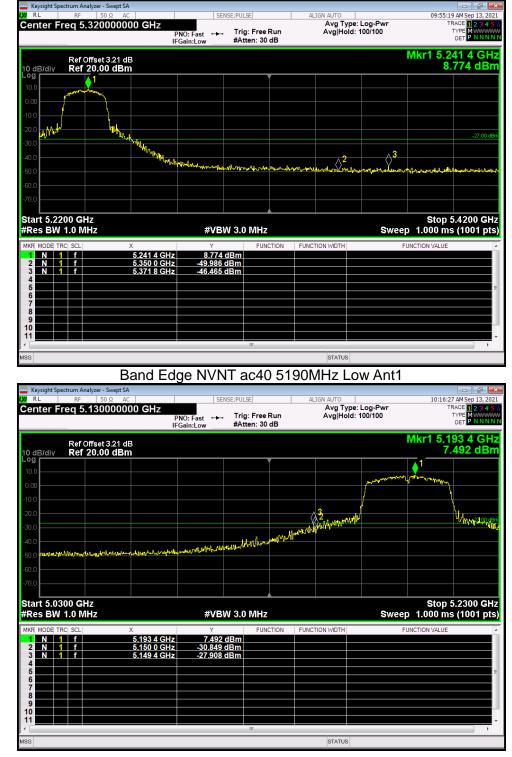




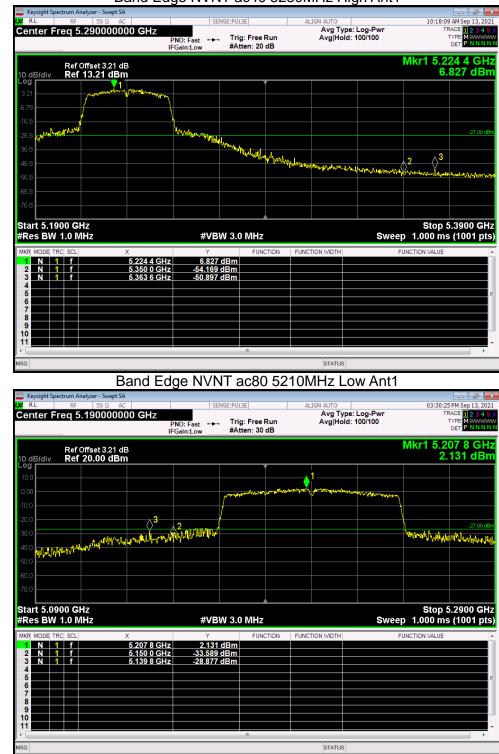
Band Edge NVNT a 5240MHz High Ant1



Band Edge NVNT ac20 5240MHz High Ant1







Band Edge NVNT ac40 5230MHz High Ant1



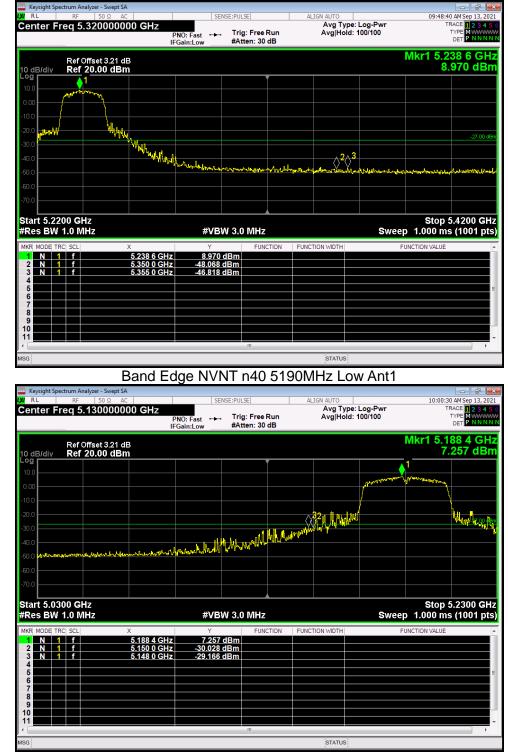


STATUS

Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT n20 5240MHz High Ant1





Keysight Spectrum Analyzer - 5 RL RF 50 Center Freq 5.2900	Ω AC 000000 GHz	SE PNO: Fast ↔	NSE:PULSE	ee Run	AL	IGN AUTO Avg Type: Avg Hold: 1		10:0	11:46 AM Sep 13, 20 TRACE 1 2 3 4 TYPE MWWW
Ref Offset	IF 3.21 dB	Gain:Low	#Atten:	30 dB				Mkr1 5	.228 0 GH
10.0 0.00	1 muser of american								
		Marrill talaba							-27.00 (
40.0			mull	w.	hull	Mannamana		2	3
50.0									
tart 5.1900 GHz Res BW 1.0 MHz		#VB	W 3.0 MI	lz				p 1.000	p 5.3900 GI ms (1001 pi
MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 4 1 f	× 5.228 0 GHz 5.350 0 GHz 5.370 8 GHz	¥ 6.560 -47.706 -46.505	dBm dBm	UNCTION	FUNC	TION WIDTH	F	UNCTION VAL	JE
5 6 7 8									
9									

Band Edge NVNT n40 5230MHz High Ant1



5.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	а	5180	Ant1	-34.2	-27	Pass
NVNT	а	5200	Ant1	-33.63	-27	Pass
NVNT	а	5240	Ant1	-33.95	-27	Pass
NVNT	ac20	5180	Ant1	-43.08	-27	Pass
NVNT	ac20	5200	Ant1	-43.78	-27	Pass
NVNT	ac20	5240	Ant1	-42.89	-27	Pass
NVNT	ac40	5190	Ant1	-44	-27	Pass
NVNT	ac40	5230	Ant1	-43.69	-27	Pass
NVNT	ac80	5210	Ant1	-43.08	-27	Pass
NVNT	n20	5180	Ant1	-33.87	-27	Pass
NVNT	n20	5200	Ant1	-33.12	-27	Pass
NVNT	n20	5240	Ant1	-33.81	-27	Pass
NVNT	n40	5190	Ant1	-33.48	-27	Pass
NVNT	n40	5230	Ant1	-33.71	-27	Pass

Tx. Spurious NVNT a 5180MHz Ant1 Emission

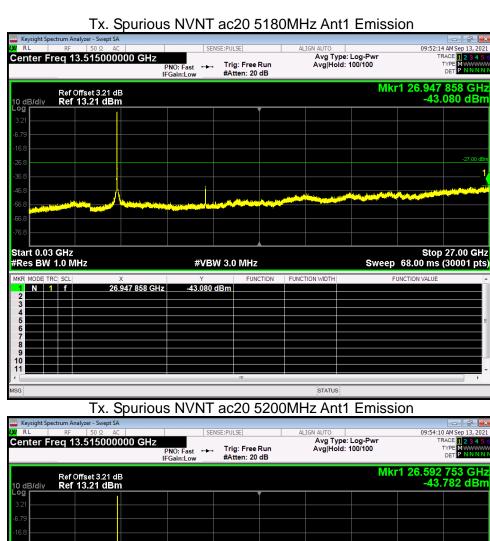
	ectrum Analyz														·
RL	^{RF} req 13.5	50 Ω AC	00 GHz	S	ENSE:PULS	E		AL		/pe:L	og-Pwr		09:3		Sep 13, 2
Criter r	164 15.5	150000		PNO: Fast 🔸		Free R en: 30 d			Avg Ho	ld: 10	00/100			TYPE	M WWW P N N N
				FGain:Low	#Atte	en: 30 a	в								
		et 3.21 dB										vikr	1 26.99	1 01	0 GI 6 dB
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Res BW	1.0 MHz			#VE	3W 3.0	MHz					Swe	eep	68.00 m	is (30	001 p
KR MODE T		х		Y		FUNCT	TION	FUNCT	ION WIDTH			FU	INCTION VALU	JE	
1 N '	1 f	26.9	91 010 GHz	-34.206	6 dBm										
2 3															
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2 3 4 5 6															
2 3 4 5 6 7 8															
2 3 4 5 6 7 8 9															
2 3 4 5 6 7															
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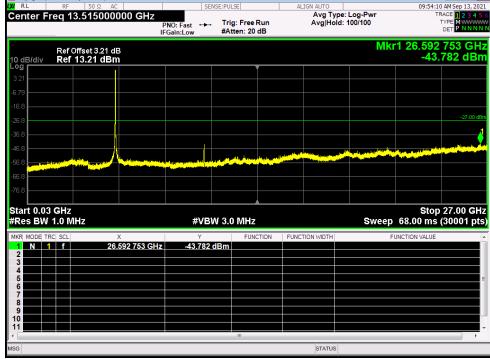


Tx. Spurious NVNT a 5200MHz Ant1 Emission

enter Freq 13.5	P	PNO: Fast ↔→ Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:	:: Log-Pwr : 100/100	TYPE	123 MWW PNN
Ref Offs	et 3.21 dB 00 dBm				Mkr	1 26.558 59 -33.63)1 G 7 dF
0 dB/div Ref 20.							
0.00							
10.0							
30.0							-27.00
40.0	i al la dinanininin in airin	n				and the second secon	
50.0 							
70.0							
Start 0.03 GHz Res BW 1.0 MHz		#\/R\//	3.0 MHz		Sween	Stop 27 68.00 ms (30	
KR MODE TRC SCL	Х	Y	FUNCTION	FUNCTION WIDTH		UNCTION VALUE	0015
1 N 1 f 2 3	26.558 591 GHz	-33.637 dE	3m				
4 5							
6 7 8							
9 10							
11							_
			m				
SG				STATUS			
SG	Tx. Spurio	us NVN			Emissior		
Keysight Spectrum Analyze	r - Swept SA 50 Ω AC			1Hz Ant1 E		09:43:07 AM	Sep 13, 3
Keysight Spectrum Analyze	r - Swept SA 50 Ω AC 15000000 GHz P	NO: Fast	T a 5240M	1Hz Ant1 E	: Log-Pwr	09:43:07 AM TRACE	Sep 13,
Keysight Spectrum Analyze RL RF Center Freq 13.5 Ref Offs:	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB	SENS	T a 5240N	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	Sep 13, 3 1 2 3 M P N N
Reysight Spectrum Analyze RL RF RETERT Freq 13.5 Ref Offs: 0 dB/div Ref 20.	r - Swept SA 50 Ω AC 15000000 GHz IF	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE	Sep 13, 3 1 2 3 M P N N
Reysight Spectrum Analyze RL RF Senter Freq 13.5 Ref Offs 0 dB/div Ref 20.	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	Sep 13, 2 1 2 3 4 M P N N I
Reysight Spectrum Analyze RL RF RETERT Freq 13.5 Ref Offs: 0 dB/div Ref 20.	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	Sep 13, 2 1 2 3 4 M P N N I
Keysight Spectrum Analyze RL	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	Sep 13,2 1 2 3 4 P NNI 56 G 3 dE
Keysight Spectrum Analyze RL RF center Freq 13.5 Ref Offs: 0 dB/div Ref 20. 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0	r-Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	Sep 13,2 1 2 3 4 P NNI 56 G 3 dE
Keysight Spectrum Analyze RL	r-Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	1234 MWWW PNN
Keysight Spectrum Analyze RL	r-Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET	Sep 13,2 1 2 3 4 P NNI 56 G 3 dE
Keysight Spectrum Analyze RL RF center Freq 13.5 Ref Offs 0 dB/div Ref 20. 0 dB/div Ref 20. <	r-Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	NO: Fast	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	:: Log-Pwr : 100/100	09:43:07 AM TRACE TYPE DET 1 26.590 05 -33.95	Sep 13, 12 3 3 M
Keysight Spectrum Analyze RL	r-Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	SENSI NO: Fast →→ Gain:Low	T a 5240M	ALIGN AUTO ALIGN AUTO Avg Type	: Log-Pwr 100/100 MIKr	09:43:07 AM TRACE TYPE DET	Sep 13, 1 12 3 3 N MAR P N N1 56 G 3 dE -27 00 -27 00 -27 00
Keysight Spectrum Analyze RL	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	SENSI NO: Fast Gain:Low	T a 5240M EPULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type	: Log-Pwr 100/100 Mkr	09:43:07 AM TRACE Type DET 1 26:590 05 -33.95	Sep 13, 1 12 3 3 N MAR P N N1 56 G 3 dE -27 00 -27 00 -27 00
Keysight Spectrum Analyze RL RF ienter Freq 13.5 Ref Offs: 0 dB/div Ref 20. 0 g 10.0	r-Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	SENSI NO: Fast Gain:Low	T a 5240M EPULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 Mkr	09:43:07 AM TRACE TYPE DET 1 26.590 05 -33.95 -33.95 -33.95 -34 -34 -34 -34 -34 -34 -34 -34 -34 -34	Sep 13, 1 12 3 3 N MAR P N N1 56 G 3 dE -27 00 -27 00 -27 00
Keysight Spectrum Analyze RL RF Ref Offs. odB/div Ref 20. od div Ref 20. div Ref 20. div Ref 20. div div	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	SENSI NO: Fast Gain:Low	T a 5240M EPULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 Mkr	09:43:07 AM TRACE TYPE DET 1 26.590 05 -33.95 -33.95 -33.95 -34 -34 -34 -34 -34 -34 -34 -34 -34 -34	Sep 13, 1 12 3 3 N MAR P N N1 56 G 3 dE -27 00 -27 00 -27 00
Keysight Spectrum Analyze RL RF center Freq 13.5 Ref Offs: o dB/div Ref 20. o o o o o o o co co	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	SENSI NO: Fast Gain:Low	T a 5240M EPULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 Mkr	09:43:07 AM TRACE TYPE DET 1 26.590 05 -33.95 -33.95 -33.95 -34 -34 -34 -34 -34 -34 -34 -34 -34 -34	Sep 13, 12 3 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Keysight Spectrum Analyze RL RF Ref Offs: Genter Freq 13.5 Ref Offs: Ref Offs: Ref Offs: Genter Freq 13.5 Ref Offs: Ref Offs: Ref Offs: Ref Offs: Genter Freq 13.5 Ref Offs: Ref Offs: Ref Offs: Genter Freq 13.5 Ref Offs: Ref Offs: Ref Offs: Ref Offs: Genter Freq 13.5 Ref Offs: Ref	r - Swept SA 50 Ω AC 15000000 GHz P IF et 3.21 dB 00 dBm	SENSI NO: Fast Gain:Low	T a 5240M EPULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 Mkr	09:43:07 AM TRACE TYPE DET 1 26.590 05 -33.95 -33.95 -33.95 -34 -34 -34 -34 -34 -34 -34 -34 -34 -34	Sep 13, 1 12 3 3 N MAR P N N1 56 G 3 dE -27 00 -27 00 -27 00









Т						
	ΩΩ AC	SE	ENSE:PULSE	ALIGN AUTO		09:55:48 AM Sep 1
Center Freq 13.51		PNO: Fast ↔ IFGain:Low			: Log-Pwr 100/100	TRACE 1 2 TYPE MW DET P N
Ref Offset	3.21 dB				Mkr	r1 26.933 474 (-42.894 d
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3.21						
-6.79						
-16.8						-27
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-46.8	Å			and the second secon		والمسالية والمعادية والمسالة
-56.8						
-66.8						
Start 0.03 GHz #Res BW 1.0 MHz		#VB	3W 3.0 MHz		Sweep	Stop 27.00 68.00 ms (30001
MKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH		UNCTION VALUE
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3 4						
5						
7						
9 10 11						
		الكمي وا		ک کھیسے ہے		
			m			
ISG				STATUS		
T		us NVNT		status 90MHz Ant1	I Emissi	
Keysight Spectrum Analyzer -					l Emissi	10:04:14 AM Sep 1
Keysight Spectrum Analyzer -	Swept SA D Ω AC	SE	「ac40 519 ENSE:PULSE] → Trig: Free Run	00MHz Ant1	: Log-Pwr	10:04:14 AM Sep 1 TRACE
Keysight Spectrum Analyzer - RL RF 50	Swept SA D Ω AC		T ac40 519	OMHz Ant1	: Log-Pwr 100/100	10:04:14 AM Sep 1 TRACE 1 2 TYPE MW DET P N
Keysight Spectrum Analyzer Keysight Spectrum Analyzer Ket RF 50 Center Freq 13.51 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 AM Sep 1 TRACE
Keysight Spectrum Analyzer - R RL RF 50 Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 AM Sep 1 TRACE 12 TYPE MW DET P N T1 26.768 058 (
Keysight Spectrum Analyzer - X RL RF 50 Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2'	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 AM Sep 1 TRACE 12 TYPE MW DET P N T1 26.768 058 (
Keysight Spectrum Analyzer - RL RF 50 Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2' 3.21	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 AM Sep 1 TRACE 12 TYPE MW DET P N T1 26.768 058 (
Keysight Spectrum Analyzer - RL RF 50 Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2: 93.21 -6.79	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 AM Sep 1 TRACE 12 TYPE MW DET P N T1 26.768 058 (
Keysight Spectrum Analyzer - X	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 ANSep 1 TRACE 12 TYPE MW DET P N r1 26.768 058 (-44.005 d
Keysight Spectrum Analyzer - X RL RF S0 Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2: 0g 3.21 -6.79 - -16.8 - -26.8 - -36.8 - -46.8 -	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	OMHz Ant1	: Log-Pwr 100/100	10:04:14 ANSep 1 TRACE 12 TYPE MW DET P N r1 26.768 058 (-44.005 d
Keysight Spectrum Anlyzer - X	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100	10:04:14 ANSep 1 TRACE 12 TYPE MW DET P N r1 26.768 058 (-44.005 d
Keysight Spectrum Analyzer - X RL RF S0 Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2: 0g 3.21 -6.79 - -16.8 - -26.8 - -36.8 - -46.8 -	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100	10:04:14 ANSep 1 TRACE 12 TYPE MW DET P N r1 26.768 058 (-44.005 d
Keysight Spectrum Analyzer - X RF 50 RL RF 50 Center Freq 13.511 Ref Offset 10 dB/div Ref 13.2°	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast	「ac40 519 ENSE:PULSE] → Trig: Free Run	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100	10:04:14 AMSep 1 TRACE 12 TYPE MW DET P N C1 26.768 058 (-44.005 d
Keysight Spectrum Analyzer RL RF SC Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2: 3.21	Swept SA 0 Ω AC 5000000 GHz 3.21 dB	PNO: Fast IFGain:Low →	「ac40 519 ENSE:PULSE] → Trig: Free Run	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MKt	10:04:14 ANSep 1 TRACE 12 TYPE MW DET P N r1 26.768 058 (-44.005 d
Keysight Spectrum Analyse - x Rel Ref Start Ref Offset 10 dB/div Ref 13.51 Ref Ref Ref 13.51 Ref Offset 10 dB/div Ref 13.21 14.32 16.79 14.42 14.42 14.42 14.42 26.68 14.42 14.42 14.42 14.42 35.8 14.42	Swept SA 20 AC 5000000 GHz 3.21 dB 1 dBm 4 ABM 4 ABM	PNO: Fast IFGain:Low	T ac40 519	90MHz Ant1	: Log-Pwr 100/100 MK1	10:04:14 AMSep 1 TRACE 12 TYPE MW DET P N r1 26.768 058 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27
Keysight Spectrum Analyzer RL RF SC Center Freq 13.51: Ref Offset Start 10 dB/div Ref 13.2:	Swept SA 2 Q AC 5000000 GHz 3.21 dB 1 dBm	PNO: Fast IFGain:Low	T ac40 519	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MK1	C10:04:14 AMSep 1 TRACE 12 TYPE MW DET P W C1 26.768 058 0 -44.005 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27
Keysight Spectrum Analyzer - X RL RF 50 Center Freq 13.51: Sector Sector Ref Offset Sector Sector 10 dB/div Ref 13.2' Sector 3.21 Sector Sector -6.79 Sector Sector -16.8 Sector Sector -26.8 Sector Sector -56.8 Sector Sector Start 0.03 GHz Res BW 1.0.0 MHz Mrx MKR MODE TRC SCL 1 1 2 1 1 1 2 1 1 1	Swept SA 20 AC 5000000 GHz 3.21 dB 1 dBm 4 ABM 4 ABM	PNO: Fast IFGain:Low	T ac40 519	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MKr	C10:04:14 AMSep 1 TRACE 12 TYPE MW DET P W C1 26.768 058 0 -44.005 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27
Keysight Spectrum Are So RL<	Swept SA 20 AC 5000000 GHz 3.21 dB 1 dBm 4 ABM 4 ABM	PNO: Fast IFGain:Low	T ac40 519	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MKr	C10:04:14 AMSep 1 TRACE 12 TYPE MW DET P W C1 26.768 058 0 -44.005 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27
Keysight Spectrum Are RL RF 50 Center Freq 13.51: Ref Offset 10 B/div Ref 13.2: 3.21	Swept SA 20 AC 5000000 GHz 3.21 dB 1 dBm 4 ABM 4 ABM	PNO: Fast IFGain:Low	T ac40 519	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MKr	C10:04:14 AMSep 1 TRACE 12 TYPE MW DET P W C1 26.768 058 0 -44.005 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27
Keysight Spectrum Analyzer - X RL RF SO Center Freq 13.51: Ref Offset 10 dB/div Ref 13.2: 3.21 - - -6.73 - - -16.8 - - -26.8 - - -36.8 - - -6.73 - - -76.8 - - -6.68 - - -76.8 - - -76.8 - - -77 - - 3 - - 1 N 1 1 2 - - - 3 - - - 3 - - - 7 - - - 8 - - - 10 - - -	Swept SA 20 AC 5000000 GHz 3.21 dB 1 dBm 4 ABM 4 ABM	PNO: Fast IFGain:Low	T ac40 519	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MKr	C10:04:14 AMSep 1 TRACE 12 TYPE MW DET P W C1 26.768 058 0 -44.005 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27
Keysight Spectrum Analyzer - RL RF SS Center Freq 13.51: Ref Offset SS 10 dB/div Ref Offset 3.21 - 3.21 - - - 3.21 - - - -6.79 - - - -6.78 - - - -6.8 - - - -6.8 - - - -6.8 - - - -6.8 - - - Start 0.03 GHz # - - 2 - - - - 2 - - - - 2 - - - - -76.8 - - - - -77.8 - - - - -77.7 - - - - -78 - -	Swept SA 20 AC 5000000 GHz 3.21 dB 1 dBm 4 ABM 4 ABM	PNO: Fast IFGain:Low	T ac40 519	20MHz Ant1 ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100 MKr	C10:04:14 AMSep 1 TRACE 12 TYPE MW DET P W C1 26.768 058 0 -44.005 0 -44.005 0 -44.005 0 -27 -27 -27 -27 -27 -27 -27 -27

Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



	x. Spurious	NVNI ac4	U 5230N	VIHz Ant1	Emissi		V
	0 Ω AC	SENSE:PULSE		ALIGN AUTO		10:18:40 AM 9	Sep 1
Center Freq 13.51	PNC		Free Run n: 20 dB	Avg Type: I Avg Hold: 1	.og-Pwr 00/100	TRACE TYPE DET	1 2 M₩ P N
Ref Offset					Mki	1 26.455 20	
10 dB/div Ref 13.2						-43.69	90
3.21							
-6.79							
-16.8							-27
-36.8							
-46.8				and the second stands	ale de la deseña		
-56.8		Langer and Lange Market		and the second designed in the second designed and designed in the second designed in the s			
-66.8							
						0 (1-1)	0.0
Start 0.03 GHz #Res BW 1.0 MHz		#VBW 3.0 N	1Hz		Sweep	Stop 27 68.00 ms (30	
MKR MODE TRC SCL	× 26.455 206 GHz	۲ -43.699 dBm	FUNCTION F	UNCTION WIDTH	F	UNCTION VALUE	
2 3							
4 5							
6 7							
8							
10							
MSG				STATUS			
	Tx. Spurious	NVNT ac8	0 5210		Emissi	ion	
Keysight Spectrum Analyzer -	Swept SA						
Center Freq 13.51	0 Ω AC 5000000 GHz	SENSE:PULSE		ALIGN AUTO Avg Type: L	.og-Pwr	10:28:59 AM TRACE TYPE DET	Sep 13
	PNC		Free Run n: 20 dB	Avg Hold: 1			
Ref Offset	3.21 dB				Mki	1 26.861 55 -43.08	
10 dB/div Ref 13.2	1 dBm					-45.06	50
3.21							
-6.79							
-26.8							-27
-36.8							
-46.8			فالتراسية والقرمونية	المحادث والمحادث المراجع	and the second second		
-56.8							
-76.8							
Start 0.03 GHz						Stop 27	00
#Res BW 1.0 MHz		#VBW 3.0 N	1Hz		Sweep	68.00 ms (30	
MKR MODE TRC SCL	X 26 961 554 CHz	Y 43.080 dBm	FUNCTION F	UNCTION WIDTH	F	UNCTION VALUE	
1 N 1 f	26.861 554 GHz	-43.089 dBm					
3 4 5							
4 5 6							
4 5							
4 5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							
4 5 6 7 7 8 9 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10		IT		STATUS			

Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT n20 5180MHz Ant1 Emission

Keysight Spectrum Analyze	50 Ω AC	SEN	SE:PULSE	ALIGN AUTO		09:45:46 AM Sep 1	13.20		
Center Freq 13.5	515000000 GHz	NO: Fast ↔→ Gain:Low	Trig: Free Run #Atten: 30 dB		: Log-Pwr : 100/100	TRACE 12 TYPE M DET P	34		
	et 3.21 dB				Mk	1 26.594 551 -33.871 c	GF		
10 dB/div Ref 20.	.00 dBm					-33.871 0	в		
10.0									
-10.0									
-20.0									
-30.0						-2	7.00 c		
-40.0			, mar filler délarate dinera de		No. of the other				
-50.0	A CONTRACT OF A								
-60.0									
Start 0.03 GHz #Res BW 1.0 MHz		#VBV	V 3.0 MHz		Sweep	Stop 27.00 68.00 ms (3000			
MKR MODE TRC SCL	Х	Y	FUNCTION	FUNCTION WIDTH		UNCTION VALUE			
1 N 1 f 2	26.594 551 GHz	<u>-33.871 c</u>	lBm						
3 4									
5									
7 8									
9									
11									
• L							Þ		
ISG Keysight Spectrum Analyze	50 Ω AC			ALIGN AUTO		ON 09:47:28 AM Sep 1			
ISG 🔤 Keysight Spectrum Analyze	er - Swept SA 50 Ω AC 5150000000 GHz P	SEN	n20 5200	OMHz Ant1	: Log-Pwr		3,20		
ISG Keysight Spectrum Analyze RL RF Center Freq 13.5 Ref Offs	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 5200 SE:PULSE Trig: Free Run	MHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep 1 TRACE 1 2 TYPE MW DET P N 71 26,590 056	13, 20 3 4 MW IN N		
Keysight Spectrum Analyzz Keysight Spectrum Analyzz Ref Center Freq 13.5 Ref Offs Ref Offs 10 dB/div Ref 20.	er - Swept SA 50 Ω AC 15000000 GHz PI IFC	SEN	n20 5200 SE:PULSE Trig: Free Run	MHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep 1 TRACE 1 2 TYPE M DET P N	13, 20 3 4 MW IN N		
ISG Keysight Spectrum Analyze W RL RF Center Freq 13.5 Center Freq 13.5 Ref Offs 0 dB/div Ref 20.	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 5200 SE:PULSE Trig: Free Run	MHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep 1 TRACE 1 2 TYPE MW DET P N 71 26,590 056	13, 20 3 4 MW IN N		
Keysight Spectrum Analyzz Keysight Spectrum Analyzz Ref Center Freq 13.5 Ref Offs Ref Offs 10 dB/div Ref 20.	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 5200 SE:PULSE Trig: Free Run	MHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep 1 TRACE 1 2 TYPE MW DET P N 71 26,590 056	13, 20 3 4 MW IN N		
ISG Keysight Spectrum Analyze R RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20, 10.0 0.00	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 5200 SE:PULSE Trig: Free Run	MHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep TRACE 12 TYPE M DET 1 26.590 056 -33.122 c	GH		
ISG Keysight Spectrum Analyze R RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20. 10 0 10 0 10 0 10 0	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 5200 SE:PULSE Trig: Free Run	MHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep TRACE 12 TYPE M DET 1 26.590 056 -33.122 c	3 4 WW INN GH		
Keyzight Spectrum Analyze Reyzight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div 000 10.0 10.0 20.0 30.0 40.0	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 5200 SE:PULSE Trig: Free Run	DMHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep TRACE 12 TYPE M DET 1 26.590 056 -33.122 c	13, 20 3 4 MM		
Keyzight Spectrum Analyze Reyzight Spectrum Analyze Q RL Center Freq 13.5 Ref Offs 10 dB/div Ref Offs 10 dB/div 20 0 10 0 20 0 30 0 40 0 50 0	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 520(SE:PULSE Trig: Free Run #Atten: 30 dB	DMHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep TRACE 12 TYPE M DET 1 26.590 056 -33.122 c	3 4 WW INN GH		
Keyzight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div 10 dB/div 20 10 dB/div 20 dB/div <t< td=""><td>er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()</td><td>SEN</td><td>n20 520(SE:PULSE Trig: Free Run #Atten: 30 dB</td><td>DMHz Ant1</td><td>e: Log-Pwr : 100/100</td><td>09:47:28 AM Sep TRACE 12 TYPE M DET 1 26.590 056 -33.122 c</td><td>GH</td></t<>	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 520(SE:PULSE Trig: Free Run #Atten: 30 dB	DMHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep TRACE 12 TYPE M DET 1 26.590 056 -33.122 c	GH		
Isg Reysight Spectrum Analyze Keyzight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div Ref 20. 10 0	er - Swept SA 50 Ω AC 515000000 GHz PI IF(if (if (if (if (if (if ()))) PI If () If ()	SEN	n20 520(SE:PULSE Trig: Free Run #Atten: 30 dB	DMHz Ant1	e: Log-Pwr : 100/100	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P N C1 26.590 056 -33.122 C	13, 20 3 4 MW INN GH 3 B		
Reysight Spectrum Analyze Reysight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div Ref 20 00 00 10 dB/div Ref 20 10 dB/div	er - Swept SA 50 Ω AC 515000000 GHz PI FC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low	n20 520(SE:PULSE Trig: Free Run #Atten: 30 dB	DMHz Ant1	: Log-Pwr 100/100 MK1	09:47:28 AM Sep 1 TRACE 12 TYPE MW DET P C1 26.590 056 -33.122 C -33.122 C -34.125 C -35.125 C -35.12	3, 20 3 4 MMM GH 100 0 7.00 0		
Isg Reysight Spectrum Analyze Keyzight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div Ref 20. 10 0	er - Swept SA 50 Ω AC 515000000 GHz PI FC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low	n20 520(SE:PULSE Trig: Free Run #Atten: 30 dB	DMHz Ant1	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P N C1 26.590 056 -33.122 C	13, 20 3 4 3 MMM IN N GH IBI 7.00 c C IIII IIII IIIIII		
ISG Keysight Spectrum Analyze Ref Offs Ref Offs Center Freq 13.5 Ref Offs Center Freq 13.5 Ref Offs Center Freq 13.5 Center Freq 13.5 <th center="" colspan="2" freq<="" td=""><td>er - Swept SA 50 Ω AC 515000000 GHz PI FC et 3.21 dB 00 dBm</td><td>SEN NO: Fast Gain:Low</td><td>se:PULSE Trig: Free Run #Atten: 30 dB</td><td>ALIGN AUTO ALIGN AUTO Avg Type Avg Hold</td><td>: Log-Pwr 100/100 Mkr</td><td>09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -34.00 c -35.00 c -</td><td>13, 20 3 4 3 MMM IN N GH IBI 7.00 c C IIII IIII IIIIII</td></th>	<td>er - Swept SA 50 Ω AC 515000000 GHz PI FC et 3.21 dB 00 dBm</td> <td>SEN NO: Fast Gain:Low</td> <td>se:PULSE Trig: Free Run #Atten: 30 dB</td> <td>ALIGN AUTO ALIGN AUTO Avg Type Avg Hold</td> <td>: Log-Pwr 100/100 Mkr</td> <td>09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -34.00 c -35.00 c -</td> <td>13, 20 3 4 3 MMM IN N GH IBI 7.00 c C IIII IIII IIIIII</td>		er - Swept SA 50 Ω AC 515000000 GHz PI FC et 3.21 dB 00 dBm	SEN NO: Fast Gain:Low	se:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type Avg Hold	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -34.00 c -35.00 c -	13, 20 3 4 3 MMM IN N GH IBI 7.00 c C IIII IIII IIIIII
Keysight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div Ref Offs 10 dB/div Ref Offs 10 dB/div 20 dB/div	er - Swept SA 50 Ω AC 515000000 GHz PIFC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low #VBV ¥VBV	se:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type Avg Hold	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -34.00 c -35.00 c -	13, 20 3 4 MMM INN GH IB 7.00 c 10 10 10 10 10 10 10 10 10 10		
Keysight Spectrum Analyze Reporting the spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs 10 dB/div Ref 20 10 0 100 10 0 100 20 0 100 30 0 100 40 0 100 50 0 100 Start 0.03 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 1 2 1 1 3 1 1	er - Swept SA 50 Ω AC 515000000 GHz PIFC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low #VBV ¥VBV	se:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type Avg Hold	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -33.122 c -34.00 c -35.00 c -	13, 20 3 4 3 MMM IN N GH IBI 7.00 c C IIII IIII IIIIII		
Regight Spectrum Analyze Regight Spectrum Analyze R RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20 00 9 10 dB/div Ref 20 10 0 9 10 0 9 10 0 9 10 0 9 20 0 9 20 0 9 20 0 9 30 0 9 40 0 9 50 0 9 51 0 9 52 0 9 53 0 9 54 0 9 56 0 9 56 0 9 1 1 2 3 4 9 56 0 9 67 0 9	er - Swept SA 50 Ω AC 515000000 GHz PIFC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low #VBV ¥VBV	se:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type Avg Hold	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 33.122 c 33.122 c 35.122 c 35.12	13, 20 3 4 MMM INN GH IB 7.00 c 10 10 10 10 10 10 10 10 10 10		
Isg Keysight Spectrum Analyze	er - Swept SA 50 Ω AC 515000000 GHz PIFC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low #VBV ¥VBV	se:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type Avg Hold	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 33.122 c 33.122 c 35.122 c 35.12	3, 20 3 4 MMM GH 100 0 7.00 0		
ISG Keysight Spectrum Analyze Ref Offs Center Freq 13.5 Ref Offs Center Freq 13.5 Ref Offs 100 Center Freq 13.5 Ref Offs Center Freq 13.5 Center Freq 14.5 Center Freq 15.5 Center Freq 15.5 Center Freq 16.5 Center Freq 17.5 Center Freq 17.5 Center Freq 16.5 Center Freq 16.5	er - Swept SA 50 Ω AC 515000000 GHz PIFC et 3.21 dB .00 dBm	SEN NO: Fast Gain:Low #VBV ¥VBV	se:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO ALIGN AUTO Avg Type Avg Hold	: Log-Pwr 100/100 Mkr	09:47:28 AM Sep 1 TRACE 12 TYPE MM DET P 1 26.590 056 33.122 c 33.122 c 35.122 c 35.12	13, 20 3 4 3 MMM IN N GH IBI 7.00 c C IIII IIII IIIIII		



Tx. Spurious NVNT n20 5240MHz Ant1 Emission

			Free Run n: 30 dB	Avg Type: Lo Avg Hold: 10	g-Pwr 0/100	TRACE 1 2 3 4 TYPE MWWW DET P N N N
Ref Offs	set 3.21 dB	ain:Low #Atter	1. 30 08		Mkr1	26.922 686 G
10 dB/div Ref 20	0.00 dBm		Ţ			-33.813 dE
0.00						
-10.0						
-20.0						-27.00
-30.0					and the state of the	an han bankan di sana d
-50.0 -50.0	an a	المجافر والمتحدين	Note the second			
-60.0						
-70.0						
Start 0.03 GHz #Res BW 1.0 MHz	z	#VBW 3.0 N	/Hz		Sweep 68	Stop 27.00 G 3.00 ms (30001 p
MKR MODE TRC SCL	× 26.922 686 GHz	Y 23.913 dDm	FUNCTION F	FUNCTION WIDTH	FUNCT	TION VALUE
1 N 1 T 2 3	20.922 080 GHZ	-33.813 dBm				
4 5						
6 7 8						
9 10						
11 		"	J			
ISG				STATUS		
		NVNI n40) 5190N	/IHz Ant1 E	mission	
	zer - Swept SA 50 Ω AC	SINVNI n4		ALIGN AUTO		09:59:55 AM Sep 13, 2
CRL RF	zer - Swept SA 50 Ω AC 5150000000 GHz PN	SENSE:PULSE	Free Run		g-Pwr	09:59:55 AM Sep 13, 2 TRACE 1 2 3 4 TYPE M WWW
Center Freq 13.	zer - Swept SA 50 Ω AC 515000000 GHZ PN IFG	SENSE:PULSE		ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 AM Sep 13, 2 TRACE 1 2 3 4 TYPE MWW DET P NN 26.868 746 G
Center Freq 13.	zer - Swept SA 50 Ω AC 5150000000 GHz PN	SENSE:PULSE	Free Run	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 AM Sep 13, 2 TRACE 1 2 3 4 TYPE MWW DET P NN 26.868 746 G
RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20 10.0	zer - Swept SA 50 Ω AC 515000000 GHz PN IFG set 3.21 dB	SENSE:PULSE	Free Run	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 AM Sep 13, 2 TRACE 1 2 3 4 TYPE MWWW DET P NN 26.868 746 G
RL RF Center Freq 13.5 Ref Offe 10 dB/div Ref 20 -99 10.0	zer - Swept SA 50 Ω AC 515000000 GHz PN IFG set 3.21 dB	SENSE:PULSE	Free Run	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 AM Sep 13, 2 TRACE 1 2 3 4 TYPE MWW DET P NN 26.868 746 G
RL RF Center Freq 13.5 Ref Offa 10 dB/div Ref 20	zer - Swept SA 50 Ω AC 515000000 GHz PN IFG set 3.21 dB	SENSE:PULSE	Free Run	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 M Sep 13, TRACE 2 2 3 TYPE DET NINT 26.868 746 G -33.489 dE
RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20 -09	zer - Swept SA 50 Ω AC 515000000 GHz PN IFG set 3.21 dB	SENSE:PULSE	Free Run	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 M Sep 13, TRACE 2 2 3 TYPE DET NINT 26.868 746 G -33.489 dE
RL RF Center Freq 13.: Ref Offs 10 dB/div Ref 20 -09	zer - Swept SA 50 Ω AC 5150000000 GHz PN IFG Set 3.21 dB .00 dBm	SENSE:PULSE	Free Run n: 30 dB	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 MSep 13, 2 TRACE 2 2 3 TYPE MAN DET P NM 26.868 746 GI -33.489 dE
RE RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20 -09	zer - Swept SA 50 Ω AC 5150000000 GHz PN IFG Set 3.21 dB .00 dBm	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run n: 30 dB	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 M Sep 13, TRACE 2 2 3 TYPE DET NINT 26.868 746 G -33.489 dE
RE RF Center Freq 13.: Ref Offs 10 dB/div Ref 20 0.00	zer - Swept SA 50 Ω AC 5150000000 GHz PN IFG Set 3.21 dB .00 dBm	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run n: 30 dB	ALIGN AUTO Avg Type: Lo	9g-Pwr 0/100	09:59:55 MSep 13, 2 TRACE 2 2 3 TYPE MAN DET P NM 26.868 746 GI -33.489 dE
REL RF Center Freq 13.: Ref Offs 10 dB/div Ref 20 00 000 10.0 000 .000	zer - Swept SA 50 Ω AC 5150000000 GHz PN IFG Set 3.21 dB 0.00 dBm	SENSE:PULSE	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lo	19-Pwr 5/100 Mkr1 /	09:59:55 M Sep 13, TRACE 2 2 3 TYPE M 0 2 7 0 0 2 7 0
REL RF Center Freq 13.: Ref Offs 10 dB/div Ref 20 10 dB/div Ref 20 10 dB/div Ref 20 -99	zer - Swept SA 50 Ω AC 5150000000 GHz PN IFG Set 3.21 dB .00 dBm	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lc Avg Hold: 10	g-Pwr)/100 Mkr1 ;	09:59:55 M Sep 13, TRACE 2 2 3 TYPE M 0 2 7 0 0 2 7 0
K RF Center Freq 13.: Ref Offs 10 dB/div Ref 20 000 -10.0 -20.0 -30.0 -50.0	zer - Swept SA 50 Ω AC 5150000000 GHz PN IFG Set 3.21 dB 0.00 dBm	SENSE:PULSE	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lo	g-Pwr)/100 Mkr1 ;	09:59:55 MSep 13, 2 TYPE MSep 13, 2 TYPE MSEP 12, 3 TYPE 12, 3 TYPE MSEP 12, 3 TYPE MS
K RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref 20 0.09	rer - Swept SA 50 Ω AC 5150000000 GHZ PN IFG Set 3.21 dB .00 dBm 2	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lc Avg Hold: 10	g-Pwr)/100 Mkr1 ;	09:59:55 MSep 13, 2 TYPE MSep 13, 2 TYPE MSEP 12, 3 TYPE 12, 3 TYPE MSEP 12, 3 TYPE MS
Ref Ref Center Freq 13.3 Ref Offs 10 dB/div Ref 20 00	rer - Swept SA 50 Ω AC 5150000000 GHZ PN IFG Set 3.21 dB .00 dBm 2	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lc Avg Hold: 10	g-Pwr)/100 Mkr1 ;	09:59:55 M 5ep 13, Tree 12 3 Tree 23, Tree 12 3 Tree 12 3 Tre
RL RF Center Freq 13.5 Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20 000	rer - Swept SA 50 Ω AC 5150000000 GHZ PN IFG Set 3.21 dB .00 dBm 2	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lc Avg Hold: 10	g-Pwr)/100 Mkr1 ;	09:59:55 M 5ep 13, Tree 12 3 Tree 23, Tree 12 3 Tree 12 3 Tre
Ref Ref Center Freq 13.: Ref Offs 10 dB/div Ref 20 -99	rer - Swept SA 50 Ω AC 5150000000 GHZ PN IFG Set 3.21 dB .00 dBm 2	SENSE:PULSE O: Fast → Trig: ain:Low #Atter	Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lc Avg Hold: 10	g-Pwr)/100 Mkr1 ;	09:59:55 MSep 13, 2 TYPE MSep 13, 2 TYPE MSEP 12, 3 TYPE 12, 3 TYPE MSEP 12, 3 TYPE MS



Tx. Spurious NVNT n40 5230MHz Ant1 Emission

					DET PNNN
ffset 3.21 dB 20.00 dBm				Mkr	1 26.965 838 GH -33.713 dB
					-27.00 c
		An			te a successive and the state of the state o
Hz	#VBW 3.0	MHz	1	Sweep	Stop 27.00 Gl 68.00 ms (30001 pt
× 26.965 838 GHz	Y -33.713 dBm	FUNCTION	FUNCTION WIDTH	Fl	JNCTION VALUE
	20.00 dBm	20.00 dBm	20.00 dBm	20.00 dBm	20.00 dBm Image: 10 and 10

END OF REPORT