

RADIO TEST REPORT

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Report No.: STS2211009W01

Issued for

Davis Instruments

3465 Diablo Av., Hayward, CA 94545, USA

Product Name:	WeatherLink Console
Brand:	Davis
Model Number:	6313U
Series Model(s):	N/A
FCC ID:	IR2DWW6313U
IC:	3788A-6313U
Test Standard:	FCC Part 15.247 RSS-247 Issue 2, February 2017 RSS-Gen Issue 5, Amendment 2, February 2021

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TEST RESULT CERTIFICATION

Applicant's Name:	Davis Instruments
Address	3465 Diablo Av., Hayward, CA 94545, USA
Manufacturer's Name:	SHENZHEN HEROFUN BIO-TECH CO., LTD
Address	701, U3 Block, Junxiang U8 Industrial Park, Guxing Community, Xixiang Street, Baoan District, China
Product Description	
Product Name:	WeatherLink Console
Brand	Davis
Model Number	: 6313U
Series Model(s):	N/A
Test Standards	FCC Part15.247 RSS-247 Issue 2, February 2017 RSS-Gen Issue 5, Amendment 2, February 2021
Test Procedure:	ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item:	04 Nov. 2022
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Date (s) of performance of tests .: 04 Nov. 2022 ~ 15 Nov. 2022

Date of Issue:		15 Nov. 2022
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Test Result Pass

Testing Engineer :	Chins chor	
	(Chris Chen)	ESTING · CONSUL
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	(Sean she)	
Authorized Signatory :	Boney Yoney	STON . CERTR

(Bovey Yang)

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7. HOPPING CHANNEL SEPARATION MEASUREMEN

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	15 Nov. 2022	STS2211009W01	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C RSS-247 Issue 2			
Standard Section	Test Item	Judgment	Remark
15.207 RSS-Gen (8.8&7.2)	Conducted Emission	PASS	
15.247(a)(1) RSS-247 (5.1)	Hopping Channel Separation	PASS	
15.247(a)(1)&(b)(1) RSS-247 (5.1)	Output Power	PASS	
15.209 RSS-247 (5.5)	Radiated Spurious Emission	PASS	
15.247(d) RSS-247 (5.5)	Conducted Spurious & Band Edge Emission	PASS	
15.247(a)(1)(iii) RSS-247 (5.1)	Number of Hopping Frequency	PASS	
15.247(a)(1)(iii) RSS-247 (5.1)	Dwell Time	PASS	
15.247(a)(1) RSS-247 (5.1) RSS-Gen (6.7)	20dB Bandwidth 99% Bandwidth	PASS	
15.205 RSS-Gen (8.9&8.10)	Restricted bands of operation	PASS	
Part 15.247(d)/part 15.209(a) RSS-247 (5.5)	Band Edge Emission	PASS	
15.203 RSS-Gen (6.8)	Antenna Requirement	PASS	
RSS-Gen (6.11&8.11)	Frequency Stability	PASS	

NOTE:

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

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

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	RF output power, conducted	±0.87dB
2	Unwanted Emissions, conducted	±2.895dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.09dB
5	All emissions, radiated 1G-6GHz	±4.92dB
6	All emissions, radiated>6G	±5.49dB
7	Conducted Emission (9KHz-30MHz)	±2.73dB

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name/PMN	WeatherLink Console
Brand	Davis
Model Number/HVIN	6313U
Series Model(s)	N/A
Model Difference	N/A
Channel List	Please refer to the Note 3.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Bluetooth Configuration	BR+EDR
Antenna Type	PIFA
Antenna Gain	2.38dBi
Adapter	Input: AC 100-240V 50/60Hz 0.5A Output: DC 5V 2A
Battery	Rated Voltage:3.8V Charge Limit Voltage:4.35V Capacity: 4500mAh
Hardware version number	6313USB V02_20220711
Software version number/FVIN	WB801-6313_V1.1.0_20221017
Serial Numbers	6313U22500200001
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

		Chanr	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



2.2 DESCRIPTION OF THE 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.

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/π/4-DQPSK
Mode 5	TX CH39	2 Mbps/π/4-DQPSK
Mode 6	TX CH78	2 Mbps/π/4-DQPSK
Mode7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK
Mode 10	Hopping	GFSK
Mode 11	Hopping	π/4-DQPSK
Mode 12	Hopping	8DPSK

Note:

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

(2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.

(3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

Test Case		
AC Conducted Emission	Mode 13 : Keeping BT TX	

2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1)Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.



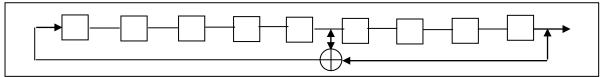
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The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

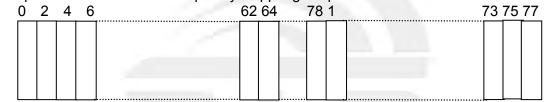
(2)The Pseudorandom sequence may be generated in a nin-stage shift register whose 5^{th} and 9^{th} stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

Numver of shift register stages:9

Length of pseudo-random sequence:2⁹-1=511bits Longest sequence of zeros: 8(non-inverted signal)



Liner Feedback Shift Register for Generator of the PRBS sequence An example of Pseudorandom Frequency Hoppong Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies ini synchronization with the transmitted signals.

(3)Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.

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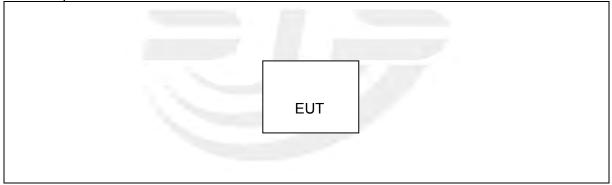
2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.

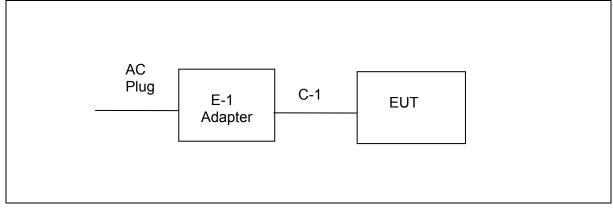
Test software Version	Test program: Bluetooth				
(Power control software) Parameters(1/2/3Mbps)	Power class: DH1 rate:4:27 2DH1 rate:20:54 3DH1 rate:24:83	Power class: DH3 rate:11:183 2DH3 rate:26:367 3DH3 rate:27:552	Power class: DH5 rate:15:339 2DH5 rate:30:679 3DH5 rate:31:1021		

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
		GFSK	2.38	default	
BT	BR+EDR	π/4-DQPSK	2.38	default	RTLBTAPP
		8DPSK	2.38	default	

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Spurious Emission Test



Conducted Emission Test



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2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	N/A	FX18U-050200J1	N/A	N/A
C-1	USB Cable	N/A	N/A	175cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A
		- 19			
		1			

Note:

- (1) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.7 EQUIPMENTS LIST

		RF Radiation Tes	t Equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2022.03.02	2023.03.01
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2022.07.23	2023.07.22
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Active loop Antenna	ZHINAN	ZN30900C	16035	2022.03.02	2023.03.01
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02014	2021.10.11	2023.10.10
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.27
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EZ-EMC		Ver.STSLAB-03A	1 RE	
		Conduction Test	equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.28
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	EZ-EMC		Ver.STSLAB-03A	1 CE	
		RF Connect	ed Test		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2022.03.01	2023.02.28
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	MW		MTS 8310_2.0	.0.0	

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emissionlimit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		





3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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 40 cm long.
- c. 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.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
 - Vertical Reference Ground Plane EUT 40cm EUT 80cm N Horizontal Reference Ground Plane

3.1.3 TEST SETUP

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.5 TEST RESULT

Temperature:	25.6(C)	Relative Humidity:	45%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1940	35.67	10.31	45.98	63.86	-17.88	QP
2	0.1940	17.99	10.31	28.30	53.86	-25.56	AVG
3	0.6780	36.23	10.37	46.60	56.00	-9.40	QP
4	0.6780	22.33	10.37	32.70	46.00	-13.30	AVG
5	1.1460	32.80	10.30	43.10	56.00	-12.90	QP
6	1.1460	19.15	10.30	29.45	46.00	-16.55	AVG
7	1.9700	33.85	10.30	44.15	56.00	-11.85	QP
8	1.9700	19.06	10.30	29.36	46.00	-16.64	AVG
9	2.9940	34.25	10.35	44.60	56.00	-11.40	QP
10	2.9940	19.00	10.35	29.35	46.00	-16.65	AVG
11	16.8860	37.64	12.17	49.81	60.00	-10.19	QP
12	16.8860	29.70	12.17	41.87	50.00	-8.13	AVG

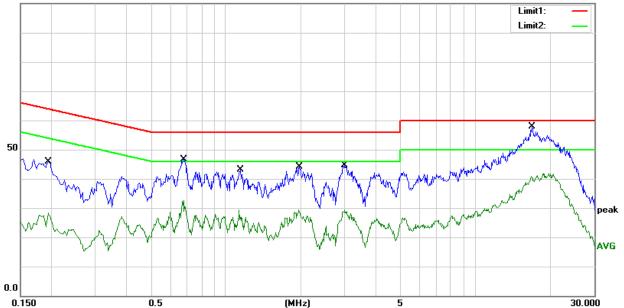
Remark:

1. All readings are Quasi-Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor=LISN factor+Cable loss+Limiter (10dB)







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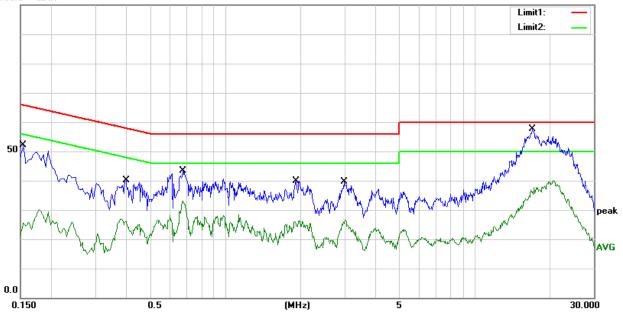
Temperature:	25.6(C)	Relative Humidity:	45%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 13		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1540	41.84	10.33	52.17	65.78	-13.61	QP
2	0.1540	19.87	10.33	30.20	55.78	-25.58	AVG
3	0.3980	29.47	10.54	40.01	57.90	-17.89	QP
4	0.3980	16.42	10.54	26.96	47.90	-20.94	AVG
5	0.6740	33.09	10.37	43.46	56.00	-12.54	QP
6	0.6740	22.75	10.37	33.12	46.00	-12.88	AVG
7	1.9100	29.58	10.30	39.88	56.00	-16.12	QP
8	1.9100	15.97	10.30	26.27	46.00	-19.73	AVG
9	2.9860	29.21	10.35	39.56	56.00	-16.44	QP
10	2.9860	16.32	10.35	26.67	46.00	-19.33	AVG
11	17.0460	36.14	12.21	48.35	60.00	-11.65	QP
12	17.0460	27.91	12.21	40.12	50.00	-9.88	AVG

Remark:

1. All readings are Quasi-Peak and Average values

- 2. Margin = Result (Result = Reading + Factor)–Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)
- 100.0 dBuV



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3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a) &209(a), RSS-Gen Issue 5 and RSS-247 Issue 2, February 2017 (5.5) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

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

LIMITS OF RESTRICTED FREQUENCY BANDS

FCC:

<u></u>			
FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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IC:

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		



For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted		
band)	120 KHz / 300 KHz	

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/AV		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)		
band)	1 MHz/1/T MHz(AVG)		

For Restricted band

Spectrum Parameter	Setting		
Detector	Peak/AV		
Start/Stan Fraguanay	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2476 to 2500 MHz		
	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

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Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP		
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP		
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP		

3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was 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.

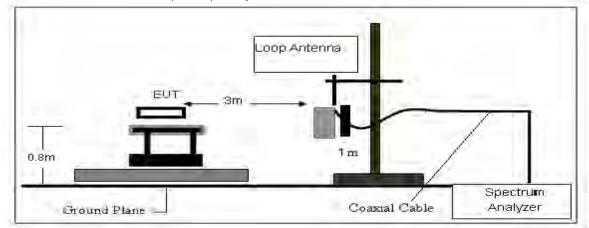
3.2.3 DEVIATION FROM TEST STANDARD

No deviation.

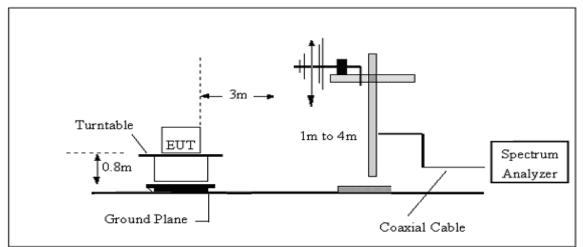


3.2.4 TESTSETUP

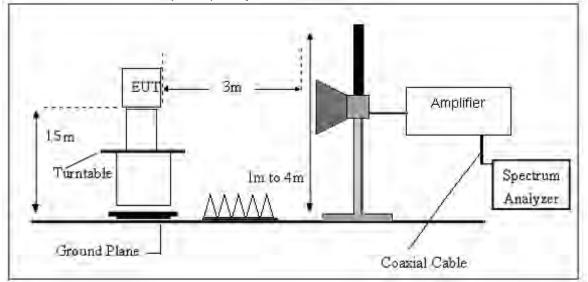
(A) Radiated Emission Test-Up Frequency Below 30MHz

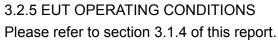


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz







3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG Where FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



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3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	iest Result
					PASS
					PASS

Note:

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

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

Limit line = specific limits (dBuv) + distance extrapolation factor.





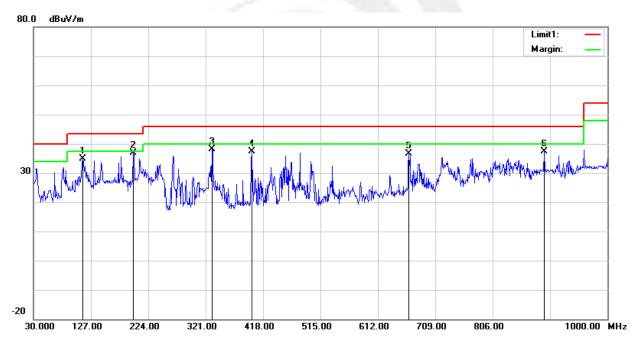
(30MHz-1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH				
Test Voltage:	DC 3.8V	Phase:	Horizontal				
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 9 worst mode)						

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	113.4200	53.58	-18.73	34.85	43.50	-8.65	peak
2	198.7800	57.93	-21.12	36.81	43.50	-6.69	peak
3	331.6700	51.77	-13.65	38.12	46.00	-7.88	peak
4	398.6000	48.57	-11.20	37.37	46.00	-8.63	peak
5	664.3800	41.23	-4.71	36.52	46.00	-9.48	peak
6	893.3000	37.96	-0.61	37.35	46.00	-8.65	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





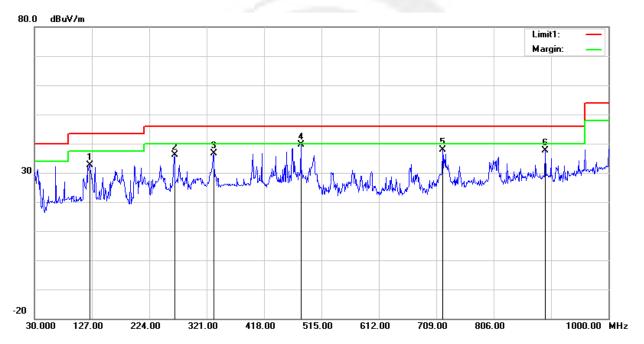
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Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode	9 worst mode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	123.1200	50.81	-18.27	32.54	43.50	-10.96	peak
2	266.6800	50.97	-14.94	36.03	46.00	-9.97	peak
3	332.6400	50.35	-13.62	36.73	46.00	-9.27	peak
4	480.0800	48.37	-8.65	39.72	46.00	-6.28	peak
5	719.6700	41.11	-3.27	37.84	46.00	-8.16	peak
6	893.3000	38.24	-0.61	37.63	46.00	-8.37	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain







(1GHz~25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low Ch	annel (8DPSK/	2402 MHz)				
3264.88	61.65	44.70	6.70	28.20	-9.80	51.85	74.00	-22.15	PK	Vertical
3264.88	51.58	44.70	6.70	28.20	-9.80	41.78	54.00	-12.22	AV	Vertical
3264.80	61.86	44.70	6.70	28.20	-9.80	52.06	74.00	-21.94	PK	Horizontal
3264.80	50.15	44.70	6.70	28.20	-9.80	40.35	54.00	-13.65	AV	Horizontal
4804.50	59.22	44.20	9.04	31.60	-3.56	55.66	74.00	-18.34	PK	Vertical
4804.50	50.56	44.20	9.04	31.60	-3.56	47.00	54.00	-7.00	AV	Vertical
4804.41	58.85	44.20	9.04	31.60	-3.56	55.29	74.00	-18.71	PK	Horizontal
4804.41	49.94	44.20	9.04	31.60	-3.56	46.38	54.00	-7.62	AV	Horizontal
5359.64	48.22	44.20	9.86	32.00	-2.34	45.88	74.00	-28.12	PK	Vertical
5359.64	39.28	44.20	9.86	32.00	-2.34	36.94	54.00	-17.06	AV	Vertical
5359.80	47.39	44.20	9.86	32.00	-2.34	45.04	74.00	-28.96	PK	Horizontal
5359.80	39.20	44.20	9.86	32.00	-2.34	36.86	54.00	-17.14	AV	Horizontal
7205.74	53.94	43.50	11.40	35.50	3.40	57.34	74.00	-16.66	PK	Vertical
7205.74	43.64	43.50	11.40	35.50	3.40	47.04	54.00	-6.96	AV	Vertical
7205.93	53.54	43.50	11.40	35.50	3.40	56.94	74.00	-17.06	PK	Horizontal
7205.93	44.57	43.50	11.40	35.50	3.40	47.97	54.00	-6.03	AV	Horizontal
				Middle C	hannel (8DPSł	(/2441 MHz)				
3264.85	60.97	44.70	6.70	28.20	-9.80	51.17	74.00	-22.83	PK	Vertical
3264.85	51.42	44.70	6.70	28.20	-9.80	41.62	54.00	-12.38	AV	Vertical
3264.75	60.94	44.70	6.70	28.20	-9.80	51.14	74.00	-22.86	PK	Horizontal
3264.75	51.27	44.70	6.70	28.20	-9.80	41.47	54.00	-12.53	AV	Horizontal
4882.36	59.21	44.20	9.04	31.60	-3.56	55.65	74.00	-18.35	PK	Vertical
4882.36	49.19	44.20	9.04	31.60	-3.56	45.63	54.00	-8.37	AV	Vertical
4882.48	58.82	44.20	9.04	31.60	-3.56	55.26	74.00	-18.74	PK	Horizontal
4882.48	50.51	44.20	9.04	31.60	-3.56	46.95	54.00	-7.05	AV	Horizontal
5359.85	48.54	44.20	9.86	32.00	-2.34	46.20	74.00	-27.80	PK	Vertical
5359.85	39.09	44.20	9.86	32.00	-2.34	36.75	54.00	-17.25	AV	Vertical
5359.80	47.56	44.20	9.86	32.00	-2.34	45.22	74.00	-28.78	PK	Horizontal
5359.80	38.44	44.20	9.86	32.00	-2.34	36.10	54.00	-17.90	AV	Horizontal
7323.72	53.69	43.50	11.40	35.50	3.40	57.09	74.00	-16.91	PK	Vertical
7323.72	44.91	43.50	11.40	35.50	3.40	48.31	54.00	-5.69	AV	Vertical
7323.90	54.12	43.50	11.40	35.50	3.40	57.52	74.00	-16.48	PK	Horizontal
7323.90	43.80	43.50	11.40	35.50	3.40	47.20	54.00	-6.80	AV	Horizontal



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				High Chan	nel (8DPSK	/2480 MHz)				
3264.63	61.50	44.70	6.70	28.20	-9.80	51.70	74.00	-22.30	PK	Vertical
3264.63	50.64	44.70	6.70	28.20	-9.80	40.84	54.00	-13.16	AV	Vertical
3264.70	61.90	44.70	6.70	28.20	-9.80	52.10	74.00	-21.90	PK	Horizontal
3264.70	50.95	44.70	6.70	28.20	-9.80	41.15	54.00	-12.85	AV	Horizontal
4960.42	59.28	44.20	9.04	31.60	-3.56	55.72	74.00	-18.28	PK	Vertical
4960.42	49.96	44.20	9.04	31.60	-3.56	46.40	54.00	-7.60	AV	Vertical
4960.44	58.71	44.20	9.04	31.60	-3.56	55.15	74.00	-18.85	PK	Horizontal
4960.44	49.24	44.20	9.04	31.60	-3.56	45.68	54.00	-8.32	AV	Horizontal
5359.76	48.97	44.20	9.86	32.00	-2.34	46.62	74.00	-27.38	PK	Vertical
5359.76	39.62	44.20	9.86	32.00	-2.34	37.28	54.00	-16.72	AV	Vertical
5359.83	47.22	44.20	9.86	32.00	-2.34	44.88	74.00	-29.12	PK	Horizontal
5359.83	39.12	44.20	9.86	32.00	-2.34	36.78	54.00	-17.22	AV	Horizontal
7439.98	53.99	43.50	11.40	35.50	3.40	57.39	74.00	-16.61	PK	Vertical
7439.98	44.03	43.50	11.40	35.50	3.40	47.43	54.00	-6.57	AV	Vertical
7439.68	53.82	43.50	11.40	35.50	3.40	57.22	74.00	-16.78	PK	Horizontal
7439.68	43.48	43.50	11.40	35.50	3.40	46.88	54.00	-7.12	AV	Horizontal

Note:

- 1) Scan with GFSK, π /4-DQPSK, 8DPSK, the worst case is 8DPSK Mode.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

Emission Level = Reading + Factor

3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

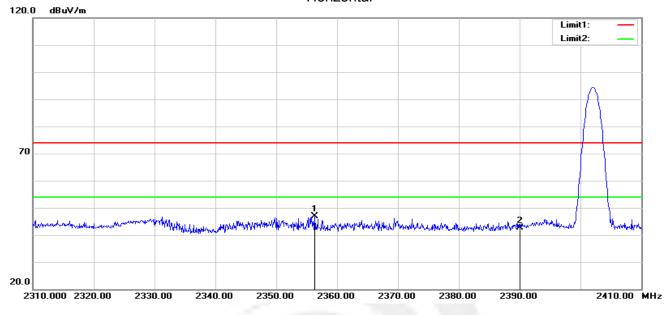




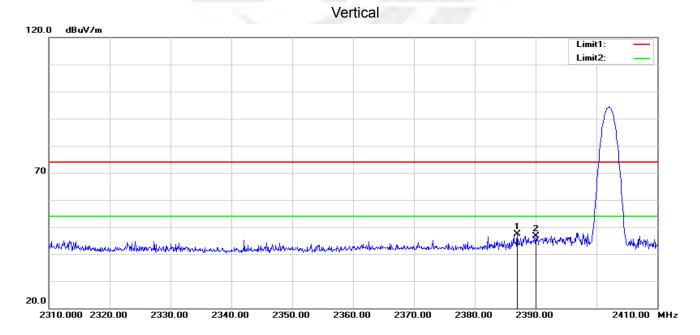
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Restricted band Requirements

8DPSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2356.300	43.06	3.83	46.89	74.00	-27.11	peak
2	2390.000	38.22	4.34	42.56	74.00	-31.44	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.000	42.96	4.30	47.26	74.00	-26.74	peak
2	2390.000	42.17	4.34	46.51	74.00	-27.49	peak

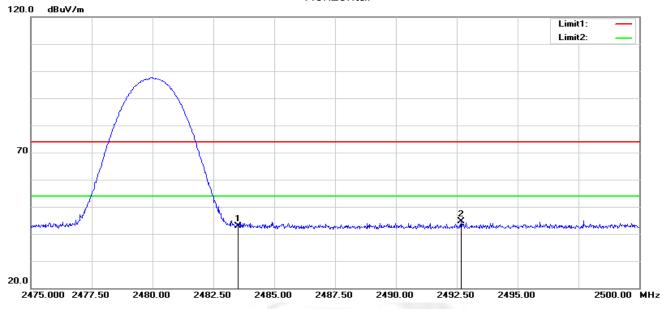
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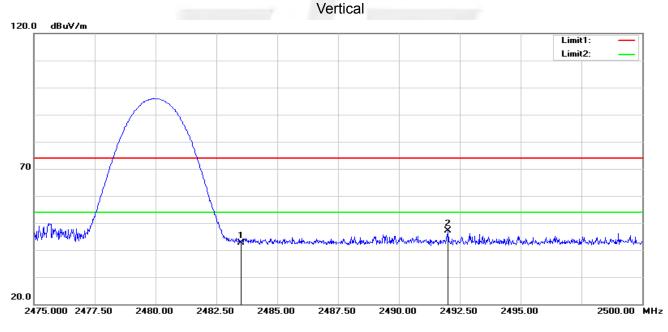
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8DPSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.27	4.60	42.87	74.00	-31.13	peak
2	2492.675	39.95	4.64	44.59	74.00	-29.41	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.01	4.60	42.61	74.00	-31.39	peak
2	2492.025	42.59	4.63	47.22	74.00	-26.78	peak

Note: GFSK, π /4-DQPSK, 8DPSK of the nohopping and hopping mode all have been test, the worst case is 8DPSK of the nohopping mode, this report only show the worst case.

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4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d)&RSS-247 Issue 2, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

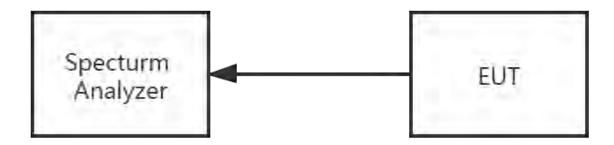
Spectrum Parameter	Setting	
Detector	Peak	
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz	
	Upper Band Edge: 2475 – 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	

For Hopping Band edge

Spectrum Parameter	Setting	
Detector	Peak	
Start/Stop Frequency	Lower Band Edge: 2300– 2403 MHz	
	Upper Band Edge: 2479 – 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	



4.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

FCC Part 15.247,Subpart C					
RSS-247 Issue 2					
Section	Test Item	Limit	FrequencyRange (MHz)	Result	
15.247(a)(1)(iii) RSS-247	Number of Hopping Channel	≥15	2400-2483.5	PASS	

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	300KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 300KHz, VBW=300KHz, Sweep time = Auto.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2					
Section	Test Item	Limit	FrequencyRange (MHz)	Result	
15.247(a)(1)(iii) RSS-247	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is 3.37 x 31.6 = 106.6.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is 5.06 x 31.6 = 160.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is 10.12 x 31.6 = 320.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247,Subpart C RSS-247 Issue 2						
Section	Test Item	Limit	FrequencyRange (MHz)	Result		
15.247 (a)(1) RSS-247(5.1) RSS-Gen(6.7)	(20dB&99% bandwidth)	N/A	2400-2483.5	PASS		

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency > Measurement Bandwidth or Channel Separation			
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)		
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)		
Detector	Peak		
Trace	Max Hold		
Sweep Time	Auto		

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



9. OUTPUT POWER TEST

9.1 LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
		1 W or 0.125W					
15.247 (a)(1)&(b)(1) RSS-247	Output Power	if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS			
RSS-247	EIRP	4W	2400-2483.5	PASS			

9.2 TEST PROCEDURE

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW \geq RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



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11. FREQUENCY STABILITY

11.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/-0.02% of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees.

11.2 TEST PROCEDURE

- 1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- 2. Turn the EUT on and couple its output to spectrum analyzer.
- 3. Turn the EUT off and set the chamber to the highest temperature specified.
- 4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize,turn the EUT on and measure the operating frequency after 2,5,and 10 minutes.
- 5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

11.3 TEST RESULT

Channel 39 (2441MHz)

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
4.37	2441.0017
3.8	2441.0012
3.23	2441.0013
Max.Deviation(MHz)	0.0017
Max.Deviation(ppm)	0.70

Rated working voltage: DC 3.8V

Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	2441.0016
-20	2441.0012
-10	2441.0010
0	2441.0006
10	2441.0007
20	2441.0012
30	2441.0011
40	2441.0015
50	2441.0006
Max.Deviation(MHz)	0.0016
Max.Deviation(ppm)	0.66



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APPENDIX 1-TEST DATA

1. Dwell Time

Condition	Mode	Frequency	Pulse	Total Dwell	Burst	Period	Limit	Verdict
		(MHz)	Time (ms)	Time (ms)	Count	Time (ms)	(ms)	
NVNT	1-DH1	2441	0.383	122.177	319	31600	<=400	Pass
NVNT	1-DH3	2441	1.639	267.157	163	31600	<=400	Pass
NVNT	1-DH5	2441	2.887	314.683	109	31600	<=400	Pass
NVNT	2-DH1	2441	0.391	124.338	318	31600	<=400	Pass
NVNT	2-DH3	2441	1.643	277.667	169	31600	<=400	Pass
NVNT	2-DH5	2441	2.892	312.336	108	31600	<=400	Pass
NVNT	3-DH1	2441	0.391	124.729	319	31600	<=400	Pass
NVNT	3-DH3	2441	1.643	274.381	167	31600	<=400	Pass
NVNT	3-DH5	2441	2.894	295.188	102	31600	<=400	Pass

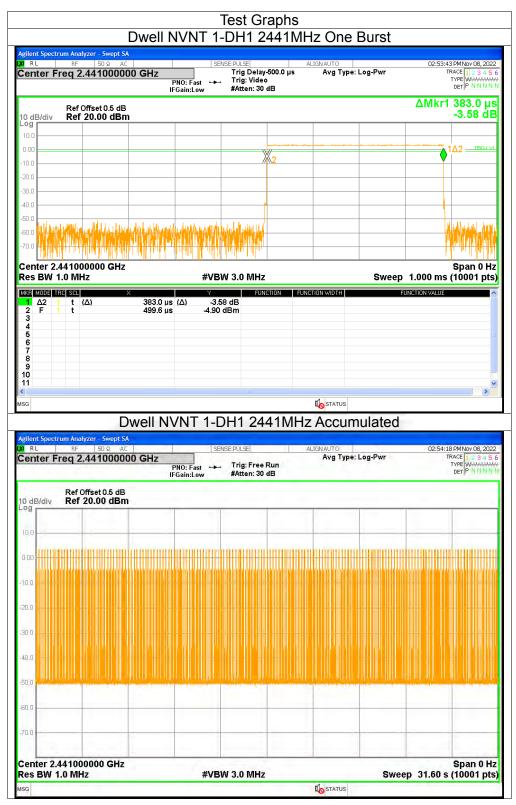


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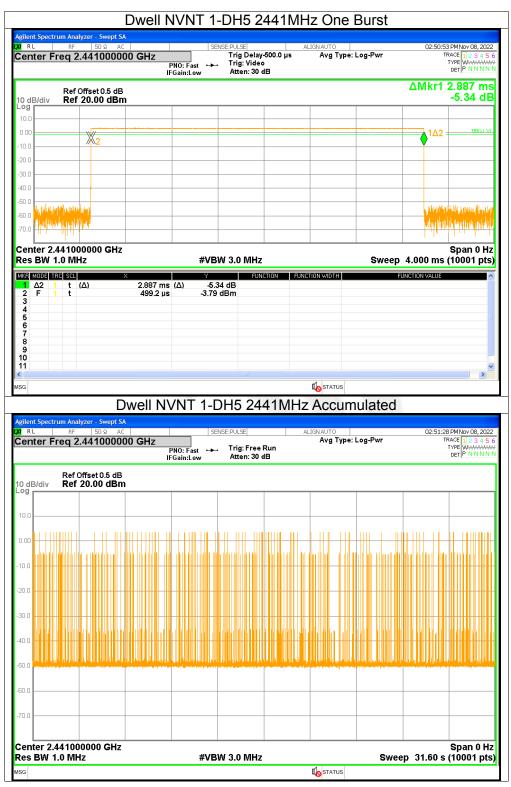
Dwell NVNT 1-DH3 2441MHz One Burst ilent Spectrum Analyzer - Swept SA RL 53 PM Nov 08, 2022 E:PULSE Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr RACE 1 2 3 4 5 TYPE WAAAAAA DET P N N N N PNO: Fast IFGain:Low ⇔ ΔMkr1 1.639 ms 4.26 dB Ref Offset 0.5 dB Ref 20.00 dBm I0 dB/div og 1∆2 n n ×2 20.0 30.0 40.0 50.0 All the lay out the lock the a ta basal haran da basal haran baba ya shi ka an da sa ta -60.0 te in the second se TINT TO P Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.000 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE Т Mile Model 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 4 1.639 ms (∆) 499.2 µs 1 t (Δ) 1 t 4.26 dB -4.28 dBm **I**status sG Dwell NVNT 1-DH3 2441MHz Accumulated 28 PM Nov 08, 2022 TRACE 1 2 3 4 5 (TYPE WWWWWW DET P N N N N B L Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB PNO: Fast ↔ Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div n nr 20. RO I 40.0 50. Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz **I**STATUS SG

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RF 50 Ω AC Freq 2.441000000 GHz	SENSE:PULSE Trig Delay-500.0 µs PNO: Fast → Trig: Video IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	02:55:56 PMNov TRACE TYPE DET P 1
Ref Offset 0.5 dB v Ref 20.00 dBm			ΔMkr1 391. 5.6
	2		
a alay ka ta she da da ka ka ka a a a a	, tel line such a ser a trait de la chicada a traine tal.		
2.441000000 GHz V 1.0 MHz	#VBW 3.0 MHz	Sweep	Spar 1.000 ms (1000
TRC SCL × 1 t (Δ) 391.0 μ	us (Δ) 5.65 dB	FUNCTION WIDTH F	UNCTION VALUE
1 t 499.5 ı	us -3.62 dBm		
Durall N			
ectrum Analyzer - Swept SA	IVNT 2-DH1 2441MF	Iz Accumulated	
	SENSE:PULSE	-	TRACE 1
ectrum Analyzer - Swept SA RF 50 Q AC Freq 2.441000000 GHz	SENSE:PULSE		02:56:31 PMNov TRACE TTRACE TYPE DET P
ectrum Analyzer - Swept SA RF 50 Ω AC	SENSE:PULSE		TRACE 1
ectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.441000000 GHz Ref Offset 0.5 dB	SENSE:PULSE		TRACE 1
ectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.441000000 GHz Ref Offset 0.5 dB	SENSE:PULSE		TRACE 1
ectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.441000000 GHz Ref Offset 0.5 dB	SENSE:PULSE		TRACE 1
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ectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.441000000 GHz Ref Offset 0.5 dB	SENSE:PULSE		TRACE 1

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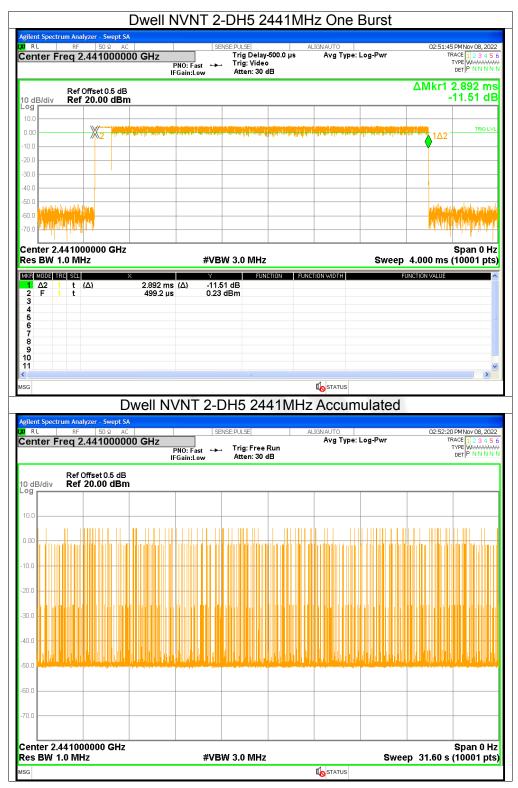


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	Freq 2.441	- <mark>Swept SA</mark> 50 Ω AC 100000	00 GHz	SE PNO: Fast ↔ Gain:Low	NSE:PULSE Trig Delay⊀ Trig: Video #Atten: 30 d	500.0 µs	IGNAUTO Avg Type: L	og-Pwr	т	3 PM Nov 08, 202 RACE 1 2 3 4 5 TYPE WWWWW DET P N N N N
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	<u>h toll a blain.</u>	n, k						<u>ulli t. tettin</u>	ullate (1. h.	
	2.44100000 1.0 MHz	0 GHz		#VB	W 3.0 MHz			Sweep	3.000 ms	Span 0 H (10001 pts
kr mode 1 Δ2			1642	(A) Y	FUNC	TION FUNCT	TION WIDTH	F	UNCTION VALUE	
2 F	1 t (Δ) 1 t		1.643 ms 499.5 µs	(Δ) 2. -0.28	dBm					
3 4										
5										
6 7 8										
9										
0										
										>
G							STATUS			
		D	well N	/NT 2-[DH3 244	11MHz	Accum	ulated		
ilent Spec	trum Analyzer -								_	
RL	RF 5	50 Ω AC		SE	NSE:PULSE	AL	IGNAUTO		02:57:3	3 PM Nov 08, 202
enter l	Freq 2.441	100000		PNO: Fast 🔸	. Trig: Free F		Avg Type: L	og-Pwr	1	RACE 1 2 3 4 5
-				Gain:Low	#Atten: 30 d	IB				DETPNNN
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29										
29	2.441000000 1.0 MHz	0 GHz		#VB	W 3.0 MHz			Swee	p 31.60 s	Span 0 F (10001 pt



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Dwell NVNT 3-DH1 2441MHz One Burst - Swept SA ilent Spectrum Analyze RL 55 PM Nov 08, 2022 E:PULSE Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr RACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N PNO: Fast IFGain:Low ⇔ ΔMkr1 391.0 μs 6.53 dB Ref Offset 0.5 dB Ref 20.00 dBm I0 dB/div og 1∆2 n n ₩, <u>u (1</u>11 30.0 40.0 50.0 en an maiseach a dean a bhliann a llabh a dhean a bhliantach an bhailteach ann a' ann a' ann an an an bhailtean 60.0 Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE Т Min Min 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 4 t (∆) t 6.53 dB -3.33 dBm 391.0 μs (Δ) 499.5 μs **I**status -Dwell NVNT 3-DH1 2441MHz Accumulated BD PM Nov 08, 2022 TRACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N B1 Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB PNO: Fast +++ IFGain:Low Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div 20.0 30.0 40.0 50.0 Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz To STATUS SG

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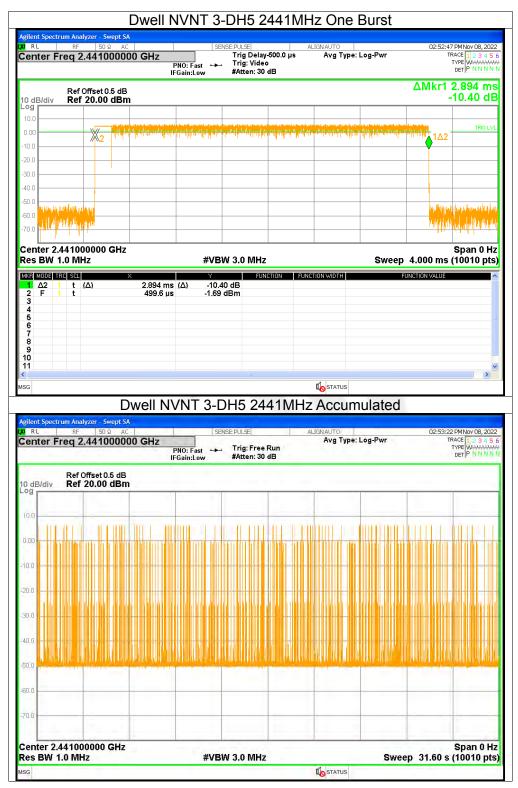
Dwell NVNT 3-DH3 2441MHz One Burst - Swept SA ilent Spectrum Analyze RL 51 PM Nov 08, 2022 E:PULSE Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr RACE 1 2 3 4 5 TYPE WWWWWWW DET P N N N N PNO: Fast IFGain:Low ΔMkr1 1.643 ms -11.12 dB Ref Offset 0.5 dB Ref 20.00 dBm I0 dB/div og TRIG LV n n ∦2 a de la constante de la consta La constante de 1Δ2 30.0 40.0 -50.0 de anten filhe ach and a lot of the first of the barrier, bit mean min -60.0 Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.000 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE Т Milling 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 Δ2 t (Δ) t 1.643 ms (∆) 499.2 µs -11.12 dB -2.50 dBm **I**status -Dwell NVNT 3-DH3 2441MHz Accumulated 26 PMNov 08, 202 TRACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N BI Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB PNO: Fast +++ Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div 20.0 -40.0 in: Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz To STATUS SG

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2. Maximum Average Conducted Output Power

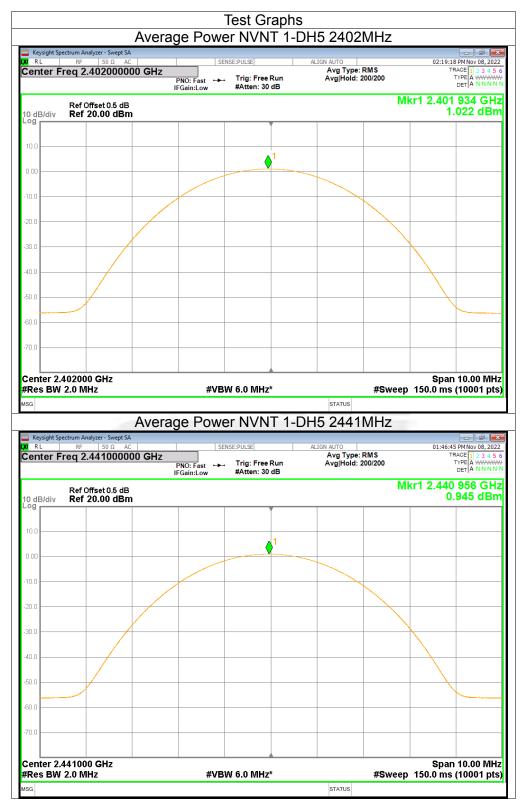
Condition	Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	1.02	<=20.97	Pass
NVNT	1-DH5	2441	0.95	<=20.97	Pass
NVNT	1-DH5	2480	1.57	<=20.97	Pass
NVNT	2-DH5	2402	0.33	<=20.97	Pass
NVNT	2-DH5	2441	0.16	<=20.97	Pass
NVNT	2-DH5	2480	0.67	<=20.97	Pass
NVNT	3-DH5	2402	0.29	<=20.97	Pass
NVNT	3-DH5	2441	1.45	<=20.97	Pass
NVNT	3-DH5	2480	0.37	<=20.97	Pass



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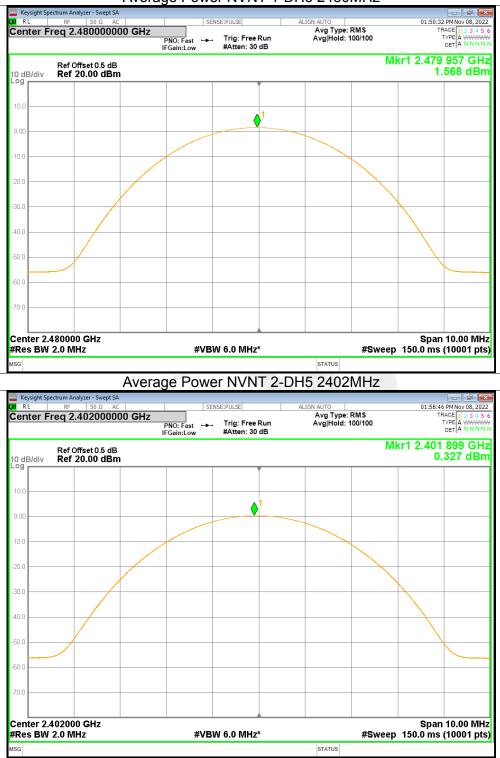
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Average Power NVNT 1-DH5 2480MHz

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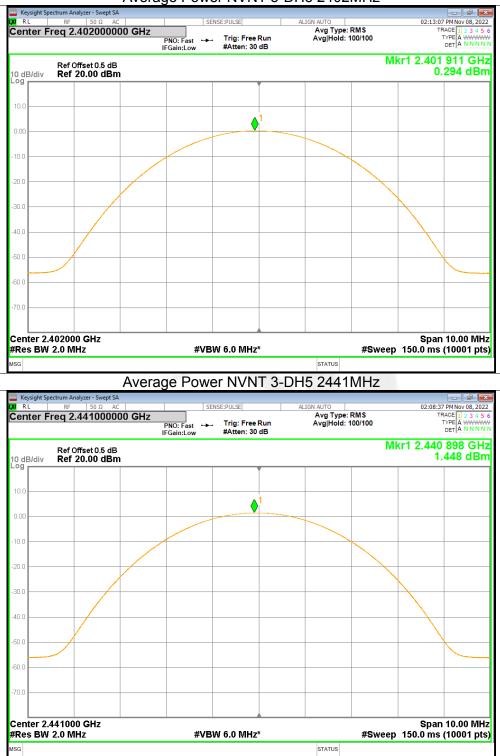
RL	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.441000000 G	SHZ PNO: Fast ↔	NSE:PULSE	ALIGN AUTO Avg Type: RMS Avg Hold: 100/1	ΛΛ TYPE Δ ΙΑΑΑΑΑ
	Ref Offset 0.5 dB	IFGain:Low	#Atten: 30 dB		Mkr1 2.440 862 GI 0.163 dB
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50.0					
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	441000 GHz 2.0 MHz		W C O BALL-*		Span 10.00 M
Res DW		#VD	W 6.0 MHz*	#	#Sweep 150.0 ms (10001 p
G				STATUS	
SG	Δι	verage Pow	ar NIV/NIT 2_F		47
	Avectrum Analyzer - Swept SA	verage Powe	er NVNT 2-D		
Keysight Sp R L	ectrum Analyzer - Swept SA RF 50 Ω AC	SE	INSE:PULSE	OH5 2480MI ALIGN AUTO Avg Type: RMS	02:02:42 PM Nov 08, 2 TRACE 1 2 3 4
Keysight Sp R L	ectrum Analyzer - Swept SA	SE	ENSE:PULSE	DH5 2480MH	02:02:42 PM Nov 08, 2 TRACE 1 2 3 4
Keysight Sp RL enter F	ectrum Analyzer - Swept SA RF 50 Ω AC	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM Nov 08, 2 TRACE 1 2 3 4 00 TYPE A WWW
Keysight Sp RL enter F	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
Keysight Sp RL enter F	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
RL RL OdB/div og	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
Contraction of the second seco	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
C dB/div	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
C dB/div	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
CodB/div	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
Keysight Sp RL enter F 0 dB/div 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
RL	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
Keysight Sp RL RL Content of the second s	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
Keysight Sp RL R R B Image: Specific Specif	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PM NOV 08, 2 TRACE 12:34 00 TYREA WHW DETANNA Mkr1 2.479 982 GI
Keysight Sp RL RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PMN00 08,2 TRACE 12 34 00 TYREA WHW DETANNN Mkr1 2.479 982 GI
Keysight Sp RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PMN00 08,2 TRACE 12 34 00 TYREA WHW DETANNN Mkr1 2.479 982 GI
Keysight Sp RL enter F 0 dB/div 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB Ref 20.00 dBm	SHZ PNO: Fast	NSE:PULSE	OH5 2480MI	02:02:42 PMNov 08, 2 00 TRACE 3 4 MMW DET A NNN Mkr1 2.479 982 GI 0.666 dB
Keysight Sp RL enter F 0 dB/div 0 d.0 0.0	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.480000000 C Ref Offset 0.5 dB	SHZ PNO: Fast IFGain:Low	NSE:PULSE	ALIGN AUTO AVIG TYPE: RMS Avg Hold: 100/1	02:02:42 PMN00 08,2 TRACE 12 34 00 TYREA WHW DETANNN Mkr1 2.479 982 GI

Average Power NVNT 2-DH5 2441MHz

Shenzhen STS Test Services Co., Ltd.



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Average Power NVNT 3-DH5 2402MHz

Shenzhen STS Test Services Co., Ltd.



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RL	Field Second Seco		ISE:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: RM Avg Hold: 100	IS /100	TR	PM Nov 08, 2022 ACE 1 2 3 4 5 YPE A WWWW DET A N N N N
0 dB/div	Ref Offset 0.5 dB Ref 20.00 dBm				Mk	r1 2.479 0.	950 GH: 371 dBm
10.0			ľ				
			↓ ¹				
0.00							
10.0							
20.0					$\overline{}$		
30.0							
10.0							
50.0							
50.0							
70.0							
	.480000 GHz (2.0 MHz	#\/B)	N 6.0 MHz*		#Sween	Span 150.0 ms i	10.00 MH: (10001 pts
SG		#VD1	V 0.0 MI12	STATUS	#oneep	100.0 113	10001 pts

Average Power NVNT 3-DH5 2480MHz

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3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	3.49	<=20.97	Pass
NVNT	1-DH5	2441	2.89	<=20.97	Pass
NVNT	1-DH5	2480	3.15	<=20.97	Pass
NVNT	2-DH5	2402	4.69	<=20.97	Pass
NVNT	2-DH5	2441	3.21	<=20.97	Pass
NVNT	2-DH5	2480	3.11	<=20.97	Pass
NVNT	3-DH5	2402	5.28	<=20.97	Pass
NVNT	3-DH5	2441	4.71	<=20.97	Pass
NVNT	3-DH5	2480	5.37	<=20.97	Pass

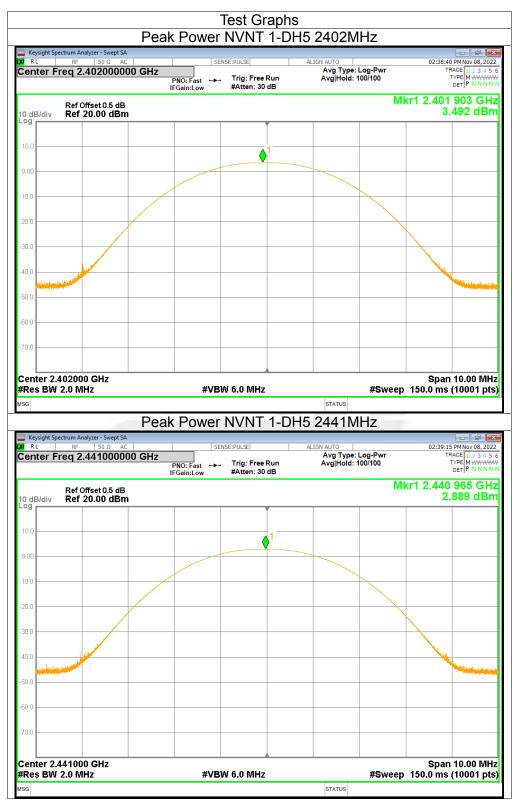
EIRP

Mode	Channel	Frequency (MHz)	Peak Power	Antenna Gain	EIRP Power	Limit
woue	Number		(dBm)	(dBi)	(dBm)	(dBm)
GFSK(1M)	0	2402	3.49	2.38	5.87	36.02
	39	2441	2.89	2.38	5.27	36.02
	78	2480	3.15	2.38	5.53	36.02
	0	2402	4.69	2.38	7.07	36.02
π/4-DQPSK(2M)	39	2441	3.21	2.38	5.59	36.02
	78	2480	3.11	2.38	5.49	36.02
8-DPSK(3M)	0	2402	5.28	2.38	7.66	36.02
	39	2441	4.71	2.38	7.09	36.02
	78	2480	5.37	2.38	7.75	36.02



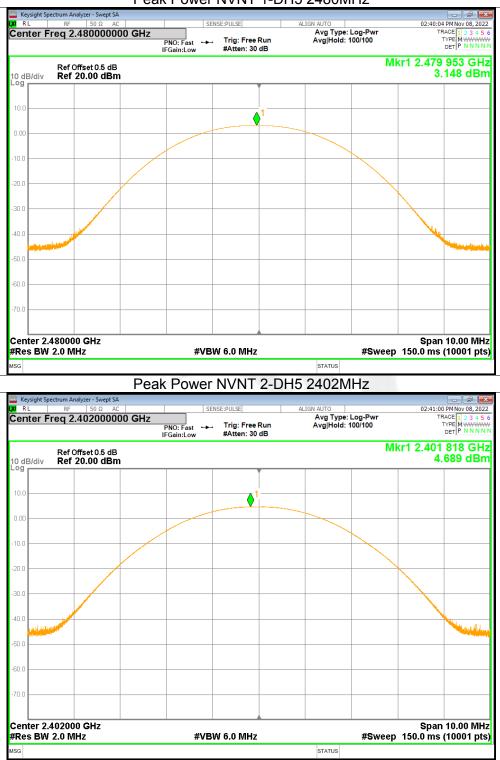
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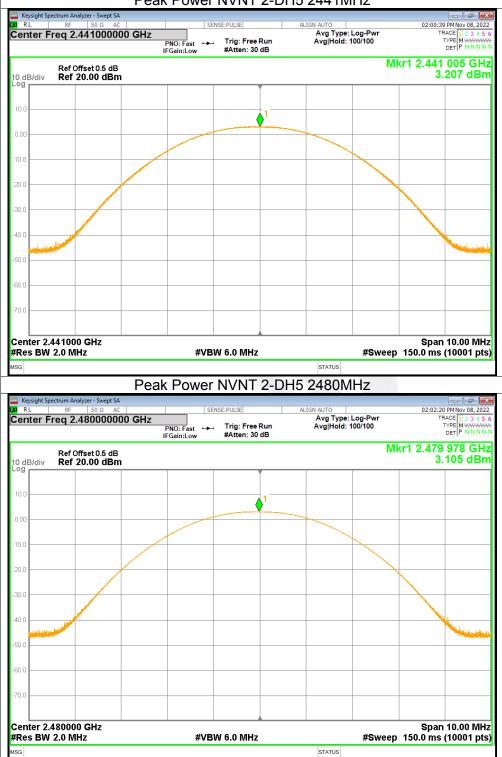


Peak Power NVNT 1-DH5 2480MHz

Shenzhen STS Test Services Co., Ltd.



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Peak Power NVNT 2-DH5 2441MHz



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Peak Power NVNT 3-DH5 2402MHz

Shenzhen STS Test Services Co., Ltd.



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Keysight Spectrum A RL RF Center Freq 2	nalyzer - Swept SA 50 Ω AC 4.480000000 GHz	PNO: Fast	ISE:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr 10/100	TF	PM Nov 08, 2022 AACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
	Dffset 0.5 dB 20.00 dBm				Mk	(r1 2.479 5.	927 GHz 365 dBm
10.0			1				
0.00							
10.0							
20.0							
30.0							
							Minister Contraction
50.0							
/0.0							
enter 2.48000		#VBI	N 6.0 MHz		#Sweep	Span 150.0 ms	10.00 MH; (10001 pts
sg				STATUS			

Peak Power NVNT 3-DH5 2480MHz

Shenzhen STS Test Services Co., Ltd.



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4. -20dB Bandwidth & 99% OCBW

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth	99% Bandwidth	Verdict
			(MHz)	(MHz)	
NVNT	1-DH5	2402	0.9616	0.8999	Pass
NVNT	1-DH5	2441	1.0468	0.8878	Pass
NVNT	1-DH5	2480	1.0194	0.8941	Pass
NVNT	2-DH5	2402	1.3412	1.1928	Pass
NVNT	2-DH5	2441	1.34	1.2043	Pass
NVNT	2-DH5	2480	1.356	1.2026	Pass
NVNT	3-DH5	2402	1.3413	1.1877	Pass
NVNT	3-DH5	2441	1.345	1.1968	Pass
NVNT	3-DH5	2480	1.3642	1.1936	Pass

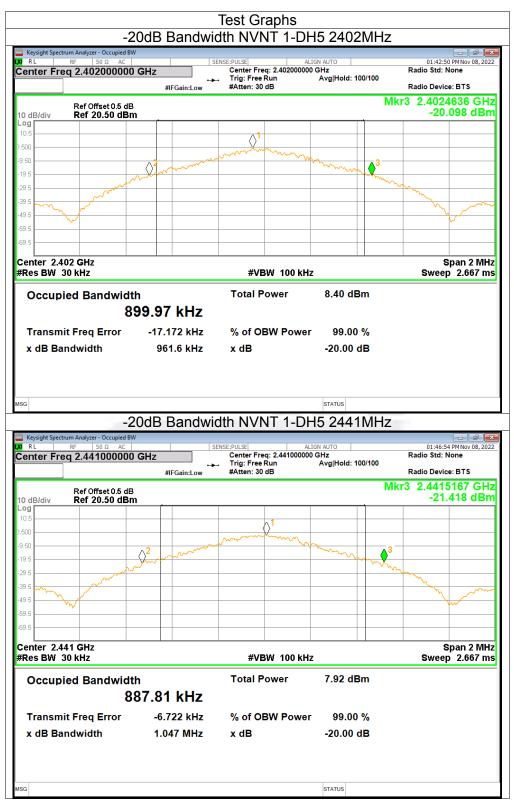


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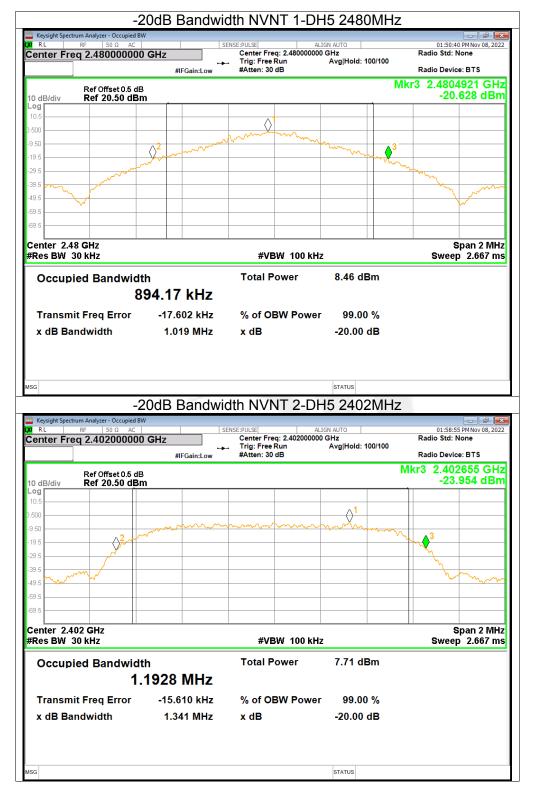


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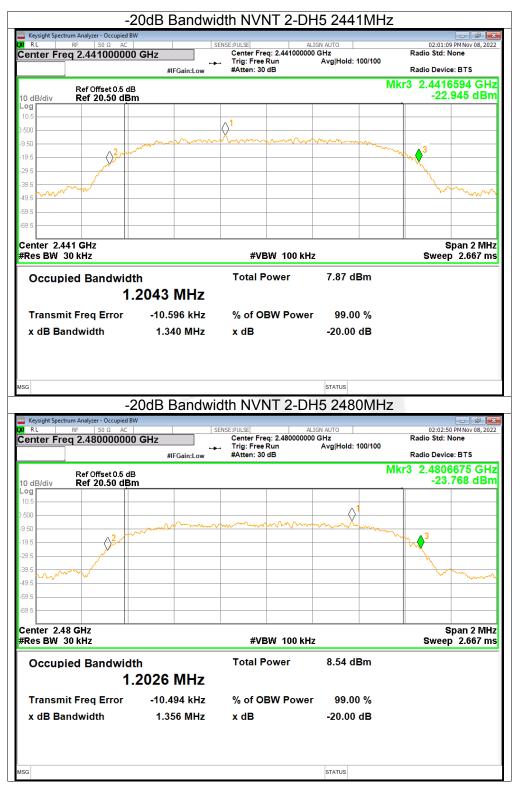
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-20dB Bandwidth NVNT 3-DH5 2402MHz ð 💌 Keysight Spectrum Analyzer - Occupied B 02:06:26 PM Nov 08, 2022 Center Freq: 2.402000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 2.402000000 GHz Radio Std: None Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Mkr3 2.4026597 GHz Ref Offset 0.5 dB Ref 20.50 dBm -22.201 dBm 10 dB/div og \Diamond $\langle \rangle^2$ 9. Center 2.402 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.667 ms Total Power 9.44 dBm **Occupied Bandwidth** 1.1877 MHz **Transmit Freq Error** -10.965 kHz % of OBW Power 99.00 % x dB Bandwidth 1.341 MHz x dB -20.00 dB STATUS -20dB Bandwidth NVNT 3-DH5 2441MHz Keysight Spectrum A 02:08:46 PM Nov 08, 2022 Center Freq: 2.441000000 GHz Trig: Free Run Avg #Atten: 30 dB Radio Std: None Center Freq 2.441000000 GHz Avg|Hold: 100/100 **њ**. #IFGain:Low Radio Device: BTS Mkr3 2.4416588 GHz Ref Offset 0.5 dB Ref 20.50 dBm -24.255 dBm 0 dB/div \Diamond \bigcirc^2 89 Center 2.441 GHz #Res BW 30 kHz Span 2 MHz #VBW 100 kHz Sweep 2.667 ms **Total Power** 8.70 dBm **Occupied Bandwidth** 1.1968 MHz % of OBW Power Transmit Freg Error -13.689 kHz 99.00 % x dB Bandwidth 1.345 MHz x dB -20.00 dB STATUS

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		anuwiu	th NVNT 3-DI		
Keysight Spectrum Analyzer - Occu R L RF 50 Ω		CEN	SE:PULSE A	LIGN AUTO	02:10:29 PM Nov 08, 20
enter Freg 2.48000		SEN	Center Freq: 2.4800000	00 GHz	Radio Std: None
		Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	Radio Device: BTS
Ref Offset 0).5 dB			N	1kr3 2.4806691 GF -22.880 dB
g					
.5		1			
	0	mm	mmm	mmmm-	
···	Martin			- Constraints	M 3
5					- h
5 mm					man
5					
.5					
.5					
enter 2.48 GHz Res BW 30 kHz			#VBW 100 kH	z	Span 2 MI Sweep 2.667 n
Occupied Band	width		Total Power	9.47 dBm	
	1.1936 N	ЛНz			
Transmit Freq Erro	or -12.98	2 kHz	% of OBW Powe	r 99.00 %	
x dB Bandwidth	1.364	MHz	x dB	-20.00 dB	
				STATUS	





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5. Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.826	2402.824	0.998	>=0.641	Pass
NVNT	1-DH5	2440.028	2440.944	0.916	>=0.698	Pass
NVNT	1-DH5	2479.02	2479.838	0.818	>=0.68	Pass
NVNT	2-DH5	2401.954	2402.98	1.026	>=0.894	Pass
NVNT	2-DH5	2441.16	2442.156	0.996	>=0.893	Pass
NVNT	2-DH5	2478.812	2479.936	1.124	>=0.904	Pass
NVNT	3-DH5	2402.034	2402.958	0.924	>=0.894	Pass
NVNT	3-DH5	2440.862	2442.166	1.304	>=0.897	Pass
NVNT	3-DH5	2478.852	2479.948	1.096	>=0.909	Pass

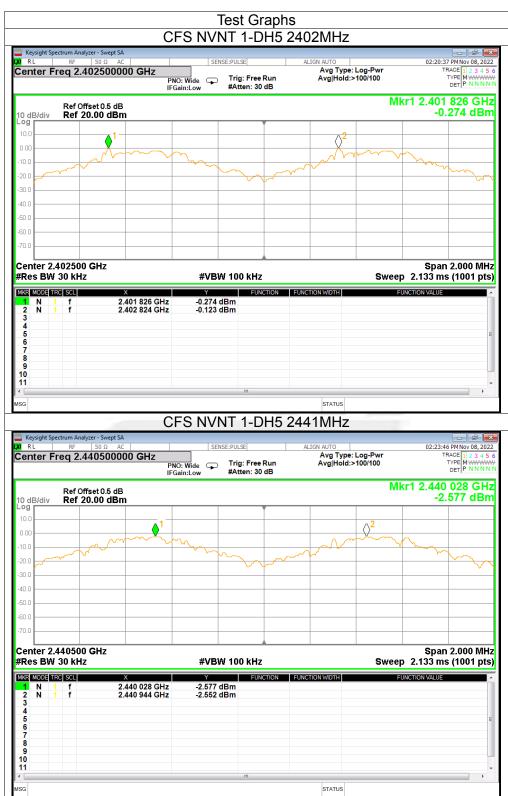


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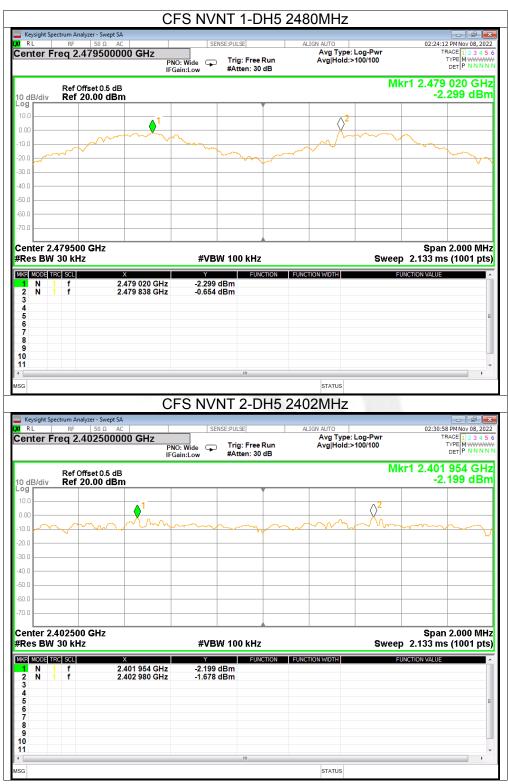
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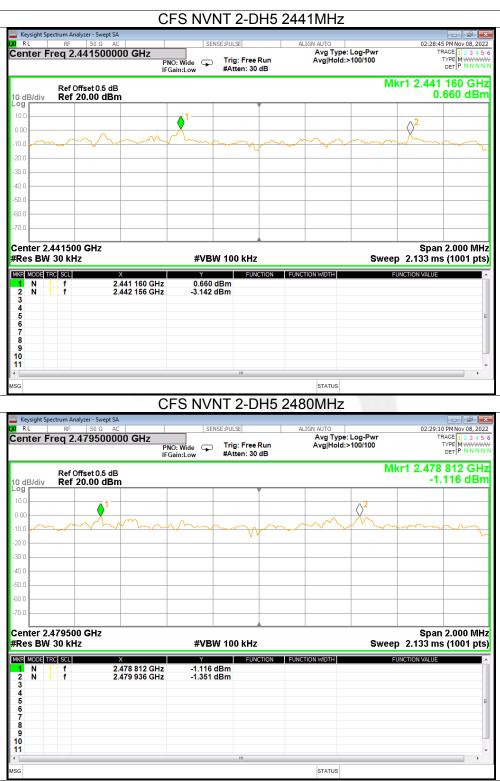
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com

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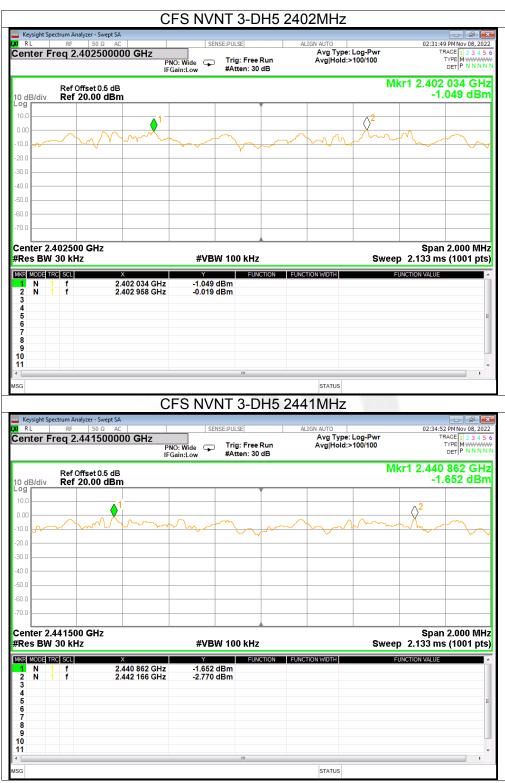
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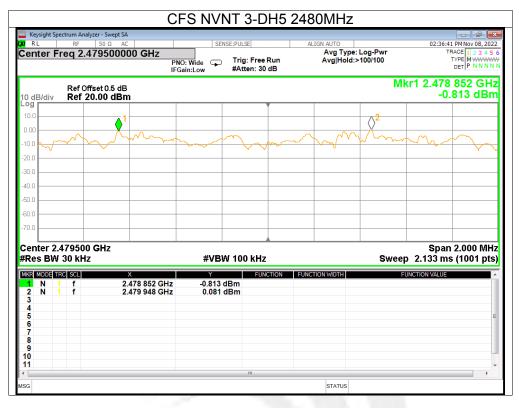
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6. Number of Hopping Channel

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass



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	Hopping N	Test Graphs Io. NVNT 1-DI		
Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44175000		SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:22:23 PM Nov 08, 2022 TRACE 1 2 3 4 5 1 TYPE DET P N N N N
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm	I		Mkr1 :	2.401 837 0 GHz 2.499 dBm
Log 10.0 -0.000 -0.0	AMMMMMMM			
-60.0 4 -70.0 Start 2.40000 GHz #Res BW 100 kHz		₩BW 300 kHz	Sweep	Stop 2.48350 GHz 8.000 ms (1001 pts
		Y FUNCTION 499 dBm 709 dBm	FUNCTION WIDTH FUNC	TION VALUE
9 10 11 4 4	Hopping N	" Io. NVNT 2-DI	status H5 2402MHz	
Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44175000		SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:27:37 PM Nov 08, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBm	I		Mkr1	2.401 837 0 GH: 1.505 dBn
Log 100 1 000 1 -100	willit with the	WWWWWWWWW	wwwwwwww	
-30.0				
Start 2.40000 GHz #Res BW 100 kHz		VBW 300 kHz	-	Stop 2.48350 GHz 8.000 ms (1001 pts
		Y FUNCTION 505 dBm 592 dBm	FUNCTION WIDTH FUNC	



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				IN AUTO		02:55:51	6 PM Nov 08, 20
		Trig: Free Run #Atten: 30 dB		Avg Type: Avg Hold:>			RACE 1 2 3 4 5 TYPE MWWW DET P N N N
et 0.5 dB 00 dBm					Mkr	1 2.401 8 2.	37 0 GH 336 dBi
^ĸ Ŷ ^Ŀ Ŷħŗŧ <mark>ſᢣᡟ᠕ᢑ᠙ᠶᠵᢋᠰᢧᢋᢂ</mark> ᠤᡙᡗ	ᡘᡢᡨᡀᠰᡁᡀᡀᡀ	ᢞᠰᠰᠰᠰᠰ	ᢦ᠋᠋ᠬᢩᡐᡎᠰᠰ	ᡰᢦᢦᠰᡇᡘᡟᡘ᠊ᡇᡇᡈ	ᡥᢦ᠆ᢔ᠆ᡎᡀᡇᡘ	ᢧᡶᡗᡆᡗᡊᢩᢂ᠋᠉ᡟᡆ᠆ᡁᠯᡍᢂᢩᡟ	
						Stop 2	48350 GH
	#VBW	300 kHz			Swee		
X 2.401 837 0 GHz 2.480 327 0 GHz		lm		ON WIDTH	F	UNCTION VALUE	
		III					•
	<u>د المعلم الم</u>	*/************************************	************************************	#VBW 300 KHz X 2.401 837 0 GHz 2.480 327 0 GHz	************************************	*/***** */***** */***** */***** */***** */***** */***** */****** */****** */***********************************	************************************

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7. Band Edge

-						
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-58.29	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-59.6	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-56.4	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-58.19	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-56.15	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-59.05	<=-20	Pass

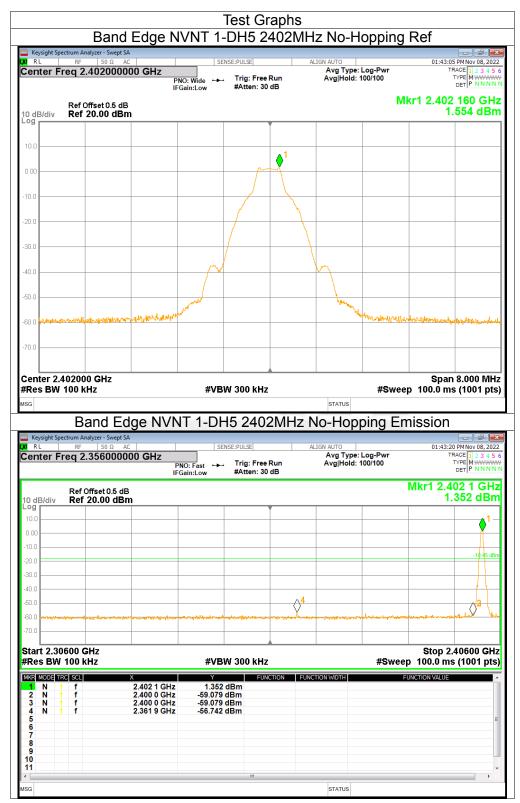


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Keysight Spectrum Analyzer - Swep	d Edge N				
RL RF 50 Ω	AC	SEN	SE:PULSE	ALIGN AUTO Avg Type: Log-Pwr	01:50:55 PM Nov 08, 202 TRACE 1 2 3 4 5
enter Freq 2.48000	P	PNO: Wide ↔ FGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	
Ref Offset 0.5 dB/div Ref 20.00 dl					Mkr1 2.480 152 GH 1.590 dBr
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10.0			♦ ¹		
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0.0					
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0.0					
enter 2.480000 GHz Res BW 100 kHz		#VBV	V 300 kHz	#S\	Span 8.000 MH weep 100.0 ms (1001 pt
G					
1				STATUS	
		NT 1-DH	5 2480MI	status Hz No-Hopping	Emission
Keysight Spectrum Analyzer - Swep	ot SA		15 2480MI		01:51:09 PM Nov 08, 202
Keysight Spectrum Analyzer - Swep				Hz No-Hopping	01:51:09 PM Nov 08, 202 TRACE 1 2 3 4 5
Keysight Spectrum Analyzer - Swep R L RF 50 Ω	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 PMNov 08, 242 TRACE [] 28, 25 TYPE M WWWW DET P NNNN Mkr1 2.479 8 GH
Keysight Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 0.5	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 PMNov 08, 242 TRACE [] 28, 25 TYPE M WWWW DET P NNNN Mkr1 2.479 8 GH
Keysight Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 0.5 Ref 0 ffset 0.5 0 dB/div Ref 20.00 d 9 10.0 1 1	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 PMN0v08,202 TRACE 1 23 4 5 TYPE M WWWW DET P NNNN Mkr1 2.479 8 GH
Reysight Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 0.5 Ref 0.0 0 dB/div Ref 0.0 0 0.0 1 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 РМ № 08,202 ТКАСЕ 2:345 ТУРЕ У ИМИНИ DET NNNN Mkr1 2.479 8 GH 1.540 dBn
Reysight Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 0.5 Ref 0.6 0 dB/div Ref 0.0 d 10.0 1 0 1	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 РМ № 08,202 ТКАСЕ 2:345 ТУРЕ У ИМИНИ DET NNNN Mkr1 2.479 8 GH 1.540 dBn
Reysight Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 O dB/div Ref Offset 0.5 0 dB/div Ref 20.00 d 0 0 0 0 0 0 1 0	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 РМ № 08,202 ТКАСЕ 2:345 ТУРЕ У ИМИНИ DET NNNN Mkr1 2.479 8 GH 1.540 dBn
Reysight Spectrum Analyzer - Swep RL RF 50 Q enter Freq 2.526000 Ref Offset 0.5 0 dB/div Ref 20.00 d 0 0 1 1 0 00 1 1 0 00 1 1 0 00 1 1 0 00 1 1 0 00 1 1 0 00 1 1 0 00 1 1	AC DOOO GHZ	SEN PNO: Fast ↔	SE:PULSE	Hz No-Hopping	01:51:09 РМ № 08,202 ТКАСЕ 2:345 ТУРЕ У ИМИНИ DET NNNN Mkr1 2.479 8 GH 1.540 dBn
Reysight Spectrum Analyzer - Swep RL RF 50 Q enter Freq 2.526000 Ref Offset 0.5 O dB/div Ref 20.00 d 00 1 0 0.00 1 0 0.00 1 0 0.00 1 0 0.00 2 4 0.00 2 4	AC DOOO GHZ	SEN PNO: Fast FGain:Low	SE:PULSE	ALIGN AUTO AVG Type: Log-Pwr Avg Hold: 100/100	01:51:09 PM Nov 08, 202 TRACE [23 45 TYPE MWWWW DET P NNNN Mkr1 2.479 8 GH 1.540 dBn -18.41 dB -18.41 dB Stop 2.57600 GH
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SG Band Keysight Spectrum Analyzer RL RF S	- Swept SA 50 Ω AC 5000000 GHz	IT 2-DH5	5 2402MH		ping Er	1155:24 PM Nov 08, 20 TRACE 1 2 3 4 TYPE I WAY
SG Band Keysight Spectrum Analyzer RL RF S	- Swept SA 50 Ω AC 5000000 GHz P		5 2402MF	HZ NO-HOP	ping Er	Thission 01:59:24 PMwv 08, 20 TRACE [] 2 3 4 TYPE MWWW DET P NNNI
Bano Keysight Spectrum Analyzer RL RF 12 eenter Freq 2.350 Ref Offse 0 dB/div Ref 20.0	- Swept SA 50 Ω AC P F IF t 0.5 dB	IT 2-DH5	5 2402MH :PULSE Trig: Free Run	HZ NO-HOP	ping Er	Mission 01:59:24 PMov08, 20 TRACE 2 3 4: TYPE MWWW DET P NNNI Mkr1 2.402 0 GH
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G Keysight Sp R L	B ectrum A RF	(Hz and Ec	a c 000 GHz	NT 3-DI	15 2402	AL	IO-HOP	Ding E		sion 02:06:54	PM Nov 08, 20 RACE 1 2 3 4 5
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G Keysight Spanner RL Control RL	B ectrum A RF req 2	4Hz and Ec inalyzer - Swept S 50 Ω A 2.3560000	A C IOO GHz IF IF	NT 3-DI	-15 2402 ENSE:PULSE . Trig: Free Ri	AL	IO-HOP	Ding E	Emis	02:06:54	PMNov 08, 20 PMNov 08, 20 Acce [1 2 3 4 Pme Pme Pme Pme Pme Pme Pme Pme Pme Pme
G Keysight Spatial Spa	B RF req 2 Ref	Construction of the second s	A C IOO GHz IF IF	NC: Fast Gain:Low	H5 2402	AL	IO-HOP	Log-Pwr 100/100	Mk	sion 02:06:54 TF 2.44 0.	PPMNov08,20 PPMNov08,20 ACCE 12.3 4 TYPE M WWW DUT 9 GH 918 dBr 1 -1530 d 40600 GH
G Keysight Sport RL Control (1997) C dB/div C dB	B RF req 2 Ref Ref	KHz and Ec sold provide the second seco	A C IOO GHz IF IF	NC: Fast Gain:Low	H5 2402		IO-HOP	Log-Pwr 100/100	Mk	Sion 02:06:55 TF r1 2.4 0.	s (1001 pt IPMNv 08, 2024 IPMNv 08, 2024 IP
G RL RL B O dB/div 0	B Ref Ref Ref 06000 0 100	KHz and Ec sold provide the second seco	A C C C C C C C C C C C C C	NT 3-DH SE PNC: Fast ↔ Gain:Low #VB	H5 2402		IO-HOP	Log-Pwr 100/100	Mk	sion 02:06:54 TF 2.44 0.	1 PM Nov 08, 2020 1 PM Nov 08,
G Keysight Sp. RL F C dB/div Sg C C dB/div Sg C Sg C Sg C Sg C Sg C Sg C Sg Sg C Sg Sg C Sg Sg C Sg Sg S	B Ref Ref Ref 06000 (1000	KHz and Ec sold provide the second seco	A C C C C C C C C C C C C C	NT 3-DH SE PNC: Fast ↔ Gain:Low #VB #VB 0.918 -54.550	H5 2402		IO-HOP	Log-Pwr 100/100	Mk	Sion 02:06:55 TF r1 2.4 0.	PPMNov08,20 PPMNov08,20 ACCE 12.3 4 TYPE M WWW DUT 9 GH 918 dBr 1 -1530 d 40600 GH
G Keysight Sp. RL E O dB/div Sg 0 0.00 0.00 0.0	B Ref Ref Ref Ref Ref Content Content Content Content Ref Ref Contento Contentent Cont	KHz and Ec salyzer - Swept S 50 Ω A 2.3560000 Offfset 0.5 dB 20.00 dB1 GHz KHz	A C C C C C C C C C C C C C	VT 3-DI SE PNO: Fast ↔ Gain:Low #VB	H5 2402		IO-HOP	Log-Pwr 100/100	Mk	Sion 02:06:55 TF r1 2.4 0.	PPMNov08,20 PPMNov08,20 ACCE 12.3 4 TYPE M WWW DUT 9 GH 918 dBr 1 -1530 d 40600 GH
G Keysight Sp. RL E O dB/div Sg 0 0.00 0.00 0.0	B Ref Ref Ref 06000 (1000	KHz and Ec salyzer - Swept S 50 Ω A 2.3560000 Offfset 0.5 dB 20.00 dB1 GHz KHz	A C C C C C C C C C C C C C	NT 3-DH SE PNC: Fast ↔ Gain:Low #VB #VB 0.918 -54.550	H5 2402		IO-HOP	Log-Pwr 100/100	Mk	Sion 02:06:55 TF r1 2.4 0.	PPMNov08,20 PPMNov08,20 ACCE 12.3 4 TYPE M WWW DUT 9 GH 918 dBr 1 -1530 d 40600 GH
G Keysight Spint Spi	B Ref Ref Ref 06000 (1000	KHz and Ec salyzer - Swept S 50 Ω A 2.3560000 Offfset 0.5 dB 20.00 dB1 GHz KHz	A C C C C C C C C C C C C C	NT 3-DH SE PNC: Fast ↔ Gain:Low #VB #VB 0.918 -54.550	H5 2402		IO-HOP	Log-Pwr 100/100	Mk	sion 02:06:55 TF r1 2.4 0.	PPMNov08,20 PPMNov08,20 ACCE 12.3 4 TYPE M WWW DET P NNN1 01 9 GH 918 dB1

Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



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Keysight Sn	ectrum Analyz	zer - Swept SA			0MHz No-H		
RL	RF	50 Ω AC		SENSE:PULSE	ALIGN AUTO		02:10:45 PM Nov 08, 20
enter F	req 2.4	80000000 GHz	Z PNO: Wide ↔ IFGain:Low	⊢ Trig: Free Run #Atten: 30 dB	Avg Type Avg Hold	: Log-Pwr 100/100	TRACE 1 2 3 4 1 TYPE MWWW DET P N N N
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Keysight Sp			IVNT 3-D	H5 2480N	IHz No-Hop	ping En	
RL	ectrum Analyz RF	zer - Swept SA 50 Ω AC		H5 2480N	ALIGN AUTO		02:10:59 PM Nov 08, 20
RL	ectrum Analyz RF	zer - Swept SA		SENSE:PULSE	ALIGN AUTO	: Log-Pwr	02:10:59 PM Nov 08, 20 TRACE 1 2 3 4 9 TYPE M WWW
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enter F	RF RF Ref Offs	zer - Swept SA 50 Ω AC 2 26000000 GHz set 0.5 dB	Z PNO: Fast ↔	SENSE:PULSE		: Log-Pwr 100/100	02:10:59 PMNov 08, 20 TRACE 1 2 3 4 TYPE MWWW DET PNNN Mkr1 2.479 9 GH
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RL enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF RF Ref Offs	zer - Swept SA 50 Ω AC 2 26000000 GHz set 0.5 dB	Z PNO: Fast ↔	SENSE:PULSE		: Log-Pwr 100/100	02:10:59 PM Nov 08, 20 TRACE [1 2:479 P GH туре М WWW рет Р NN N1 -0.758 dBr
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RL enter F 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Ref Offs Ref 20	zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB 0.00 dBm	Z PNO: Fast	SENSE:PULSE		: Log-Pwr 100/100	02:10:59 PM Nov 08, 20 TRACE [] 2: DET P NNN Mkr1 2.479 9 GH -0.758 dBi -0.758 dBi -18.91 d
RL enter F	Ref Offs Ref 20	zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB 0.00 dBm	Z PNO: Fast	SENSE:PULSE Trig: Free Run #Atten: 30 dB		: Log-Pwr 100/100	02:10:59 PM Nov 08, 20 TRACE [] 2:3 TYPE M WWW DET P NN N1 Mkr1 2.479 9 GH -0.758 dBr -0.758 dBr -18.91 d
RL enter F 0 dB/div 000 000 000 000 000 000 000 000 000 0	Ref Offs Ref Offs Ref 20	zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB .00 dBm .00 dBm .00 dBm .00 dBm .00 dBm .00 dBm	Z PNO: Fast IFGain:Low #VI #VI	SENSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO	: Log-Pwr 100/100	02:10:59 PM Nov 08, 20 TRACE [1 2:479 9 GH -0.758 dBr -0.758 dBr -18.91 d Stop 2.57600 GH -100.0 ms (1001 pt
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RL enter F 0 dB/div 0 0 0 0 0	Ref Offs Ref Offs Ref 20 1 7600 GH 1 0 KH	zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB 0.00 dBm 30 dBm 43 2 2 2 2 2 2 2.479 9 2.483 5 2.500 0	Z PNO: Fast → IFGain:Low #VI GHz GHz GHz GHz GHz GHz GHz GHz GHz GHz GHz	SENSE:PULSE	ALIGN AUTO	: Log-Pwr 100/100	02:10:59 PM Nov 08, 20 TRACE [1 2:479 9 GH -0.758 dBr -0.758 dBr -18.91 d Stop 2.57600 GH -100.0 ms (1001 pt
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RL enter F 0 dB/div 0 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </td <td>Ref Offs Ref Offs Ref 20 1 7600 GH 1 0 KH</td> <td>zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB 0.00 dBm 30 dBm 43 2 2 2 2 2 2 2.479 9 2.483 5 2.500 0</td> <td>Z PNO: Fast → IFGain:Low #VI GHz GHz GHz GHz GHz GHz GHz GHz GHz GHz</td> <td>SENSE:PULSE</td> <td>ALIGN AUTO</td> <td>: Log-Pwr 100/100</td> <td>02:10:59 PN Nov 08, 20 TRACE [1 2:479 9 GH -0.758 dBi -0.758 dBi -18.91 d -18.91 d Stop 2.57600 GH -100.0 ms (1001 pt</td>	Ref Offs Ref Offs Ref 20 1 7600 GH 1 0 KH	zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB 0.00 dBm 30 dBm 43 2 2 2 2 2 2 2.479 9 2.483 5 2.500 0	Z PNO: Fast → IFGain:Low #VI GHz GHz GHz GHz GHz GHz GHz GHz GHz GHz	SENSE:PULSE	ALIGN AUTO	: Log-Pwr 100/100	02:10:59 PN Nov 08, 20 TRACE [1 2:479 9 GH -0.758 dBi -0.758 dBi -18.91 d -18.91 d Stop 2.57600 GH -100.0 ms (1001 pt
RL enter F od B/div og og old B/div og old B/div og old B/div og old B/div og og old B/div og og old B/div og og old B/div og old B/div o	Ref Offs Ref Offs Ref 20 1 7600 GH 1 0 KH	zer - Swept SA 50 Ω AC 26000000 GHz set 0.5 dB 0.00 dBm 30 dBm 43 2 2 2 2 2 2 2.479 9 2.483 5 2.500 0	Z PNO: Fast → IFGain:Low #VI GHz GHz GHz GHz GHz GHz GHz GHz GHz GHz	SENSE:PULSE	ALIGN AUTO	: Log-Pwr 100/100	02:10:59 PM Nov 08, 20 TRACE [1 2:479 9 GH -0.758 dBr -0.758 dBr -18.91 d Stop 2.57600 GH -100.0 ms (1001 pt



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8. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-61.52	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-59.93	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-59.43	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-60.57	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-59.69	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-60.32	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.



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Report No.: STS2211009W01

Band	d Edge(Hop		st Graphs IT 1-DH5 2	402MHz Hopp	ing Ref	
Keysight Spectrum Analyzer		SENSE:PU		ALIGN AUTO	02:22:38 PM Nov 08, 202	
enter Freq 2.402	2000000 GHz		ig: Free Run	Avg Type: Log-Pwr Avg Hold: 2000/2000	TRACE 1 2 3 4 5 TYPE M WWWW	
			itten: 24 dB	-	DETPNNN	
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Res BW 100 kHz				_		
		#VBW 30)0 kHz			
G				STATUS	ep 1.000 ms (1001 pt	
Band E					ep 1.000 ms (1001 pt g Emission	
Band E Keysight Spectrum Analyzer RL RF 5	- Swept SA 50 Ω AC		1-DH5 240	status 2MHz Hoppinų align auto	2 Emission	
G Band E Keysight Spectrum Analyzer RL RF 5	- Swept SA 50 Ω AC 5000000 GHz	IG) NVNT ^	1-DH5 240	status 2MHz Hopping	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 202 TRACE [1 2 3 4 5 TYPE	
G Band E Keysight Spectrum Analyzer RL RF 5	- Swept SA 50 Ω AC 5000000 GHz	IG) NVNT ' SENSE:PL	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PMov 08, 20 TRACE [1 2 TYPE M WWW DET P NNN	
G Band E Keysight Spectrum Analyzer RL RF 12 enter Freq 2.356 Ref Offse 0 dB/div Ref 14.5	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE MWN DET P NNN Mkr1 2.405 8 GH	
Ref Offse	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 202 TRACE 1 2 3 4 5 TYPE M DET P NNNN Mkr1 2.405 8 GH	
Band E Band E Keysight Spectrum Analyzer RL RF S enter Freq 2.356 0 dB/div Ref 0ffse 0 dB/div Ref 14.5	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 202 TRACE 1 2 3 4 5 TYPE M DET P NNNN Mkr1 2.405 8 GH	
Band E Band E Keysight Spectrum Analyzer RL RF S enter Freq 2.356 0 dB/div Ref 14.5	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 202 TRACE 1 2 3 4 5 TYPE M DET P NNNN Mkr1 2.405 8 GH	
G Band E Keysight Spectrum Analyzer RL RF S enter Freq 2.356 AB/div Ref 0ffse 0 dB/div Ref 14.5 0 dB/div Spectrum Analyzer 1.50 0 dB/div Ref 14.5 0 dB/div Ref 14.5	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 202 TRACE 1 2 3 4 5 TYPE M DET P NNNN Mkr1 2.405 8 GH	
Ref Offse above RL RF 12 Ref Offse above Ref Offse Ref Offse Ref Offse Ref 14.5 Ref 0 Ref 14.5 Ref 0 Ref 14.5 Ref 0 Ref 0	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pt g Emission 02:23:20 PM Nov 08, 202 TRACE 1 2 3 4 5 TYPE M DET P NNNN Mkr1 2.405 8 GH	
Ref Offse Band Ev RL RF 12 Ref Offse 0 dB/div Ref 14.5 9 150 155 155	- Swept SA 50 Ω AC 5000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IG) NVNT ^	1-DH5 240	STATUS 2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr	ep 1.000 ms (1001 pts g Emission 02:23:20 PM Nov 08,202 TRACE 1.2.3.4 S TYPE M DET P NNNN Mkr1 2.405 8 GH:	
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A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com

Shenzhen STS Test Services Co., Ltd.



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		, p		2480MHz Ho	
	50 Ω AC	SENSE:PUL	.SE	ALIGN AUTO	02:24:28 PM Nov 08, 20
Center Freq 2.48			g: Free Run ten: 30 dB	Avg Type: Log-Pwr Avg Hold: 2000/2000	TRACE 1 2 3 4 5 TYPE M WWW DET P N N N
Ref Offse					Mkr1 2.478 152 GH
0 dB/div Ref 20.	00 dBm		Y		2.765 dB
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	h h		M		
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50.0					a a a a a a a a a a a a a a a a a a a
70.0					
enter 2.480000 G	247				Span 8.000 Mł
Res BW 100 kHz	112	#VBW 30	0 kHz	Sv	veep 1.000 ms (1001 pt
SG				STATUS	
		ng) NVNT 1	-DH5 248	0MHz Hoppi	ng Emission
	50 Ω AC	SENSE:PUL	SE	ALIGN AUTO	02:25:01 PM Nov 08, 20
Center Freq 2.52			g: Free Run ten: 30 dB	Avg Type: Log-Pwr Avg Hold: 2000/2000	TRACE 1 2 3 4 TYPE M WWW DET P N N N
Ref Offs	et 0.5 dB	Guilleon			Mkr1 2.479 9 GH
	.00 0611				1.817 dBi
-og 10.0 1					1.817 dBi
10.0 1					
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• 0 0 10.0 10.0 0 0 0 0 0 0 0 0 0 0 0 0 0					1.817 dBr
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• 9 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0		#VBW 30	0 kHz		-17.24 d
• 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	×	Y	0 kHz		
- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	2.479 9 GHz 2.483 5 GHz	Y 1.817 dBm 59.175 dBm			
	2.479 9 GHz	Y 1.817 dBm -59.175 dBm -59.716 dBm			
•9 1 10.0 1 0.00 1 <t< td=""><td>× 2.479 9 GHz 2.479 9 GHz 2.483 6 GHz 2.500 0 GHz</td><td>Y 1.817 dBm -59.175 dBm -59.716 dBm</td><td></td><td></td><td></td></t<>	× 2.479 9 GHz 2.479 9 GHz 2.483 6 GHz 2.500 0 GHz	Y 1.817 dBm -59.175 dBm -59.716 dBm			
• • • • • • • • • • • • • • • • • • •	× 2.479 9 GHz 2.479 9 GHz 2.483 6 GHz 2.500 0 GHz	Y 1.817 dBm -59.175 dBm -59.716 dBm			
• 9 • 9 • 1 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0	× 2.479 9 GHz 2.479 9 GHz 2.483 6 GHz 2.500 0 GHz	Y 1.817 dBm -59.175 dBm -59.716 dBm			

Band Edge (Honning) NIV/NIT 1 DHE 2480MHz Honning Def



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RL RF 5 Center Freq 2.402	000000 GHz	O. Wide	Free Run	Avg Type: Log-Pwr Avg Hold: 2000/2000	TRACE 1 2 3 4 1 TYPE MWWW DET P N N N	
Ref Offset	0.5 dB	Gain:Low #Atte	en: 30 dB	М	kr1 2.402 832 GH	
odB/div Ref 20.0	0 dBm		Y		3.352 dB	
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	lz	#\/R\A(300	kH7	Swee		
Res BW 100 kHz	łz	#VBW 300	kHz	Swee		
Res BW 100 kHz				STATUS	p 1.000 ms (1001 pt	
Res BW 100 kHz G Band E(Keysight Spectrum Analyzer	dge(Hopping Swept SA	g) NVNT 2-	-DH5 24(status D2MHz Hopping	p 1.000 ms (1001 pt Emission	
Res BW 100 kHz G Band E Keysight Spectrum Analyzer RL RF 5	dge(Hopping Swept SA 0 0 A C 000000 GHz	3) NVNT 2-	-DH5 24(STATUS	Emission	
Res BW 100 kHz G Band E Keysight Spectrum Analyzer RL RF 5	dge(Hopping ۱۹۹۵ کی ۱۹۹۵ کی ۱۹۹۵ کی ۱۹۹۵ کی) NVNT 2- sense:puls 10: Fast ↔ Trig:	-DH5 24(STATUS D2MHz Hopping Align Autro Avg Type: Log-Pwr Avg Hold: 1500/1500	Emission Correction Co	
Res BW 100 kHz Band Ed Keysight Spectrum Analyzer RL RF S enter Freq 2.356 Ref Offset 0 dB/div Ref 20.00	dge(Hopping Swept SA 00 AC 000000 GHz PA IFC 0.5 dB) NVNT 2- SENSE:PULS IO: Fast + Trig:	-DH5 24(STATUS D2MHz Hopping Align Autro Avg Type: Log-Pwr Avg Hold: 1500/1500	Emission <u>C2:28:18 PM Nov 08, 20</u> TRACE 1 2 3 4 TYPE M DET P N NN Mkr1 2.403 8 GH	
Reysight Spectrum Analyzer RL RF 5 RETER Freq 2.356 Ref Offset	dge(Hopping Swept SA 00 AC 000000 GHz PA IFC 0.5 dB) NVNT 2- SENSE:PULS IO: Fast + Trig:	-DH5 24(STATUS D2MHz Hopping Align Autro Avg Type: Log-Pwr Avg Hold: 1500/1500	Emission <u>C2:28:18 PM Nov 08, 20</u> TRACE 1 2 3 4 TYPE M DET P N NN Mkr1 2.403 8 GH	
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Res BW 100 kHz Band E(Keysight Spectrum Analyzer RL RF S Ref Offset 0 dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dge(Hopping Swept SA 00 AC 000000 GHz PA IFC 0.5 dB) NVNT 2- SENSE:PULS IO: Fast + Trig:	-DH5 24(STATUS D2MHz Hopping Align Autro Avg Type: Log-Pwr Avg Hold: 1500/1500	Span 8.000 MH p 1.000 ms (1001 pt Emission 02:28:18 PM Nov 08, 20 TRACE 1 2 3 4 TYPE MW DET P N N1 Mkr1 2.403 8 GH 3.095 dBi	
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Res BW 100 kHz 36 Band Ed Keysight Spectrum Analyzer RL RF Scenter Freq 2.356 0 dB/div Ref Offset 0.00 9 0.00 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	dge(Hopping Swept SA 00 AC 000000 GHz PA IFC 0.5 dB) NVNT 2- SENSE:PULS IO: Fast + Trig:	-DH5 24(STATUS D2MHz Hopping Align Autro Avg Type: Log-Pwr Avg Hold: 1500/1500	Emission C2:28:18 PM Nov 08, 20 TRACE [1 2 3 4 TYPE [MVN V DET P N NN Mkr1 2.403 8 GH 3.095 dBi	
Res BW 100 kHz 3G Band Ed Keysight Spectrum Analyzer RL RF Scenter Freq 2.356 0 dB/div Ref Offset 0 dB/div Ref 20.0 90 0.00	dge(Hopping Swept SA 00 AC 000000 GHz PA IFC 0.5 dB	g) NVNT 2- SENSE:PULS IO: Fast → Trig: ain:Low → #Atte	-DH5 24(STATUS D2MHz Hopping ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 1500/1500	Emission Contract of the second seco	
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Res BW 100 kHz 3G Band Ed Keysight Spectrum Analyzer RL<	dge(Hopping Swept SA 00 AC 000000 GHz PA IFC 0.5 dB	g) NVNT 2- SENSE:PULS IO: Fast → Trig: ain:Low → #Atte	-DH5 24(Status	Emission Contract of the second seco	
Res BW 100 kHz 3G Band Ed Keysight Spectrum Analyzer RL<	Dge(Hopping) Swept SA 00 00 0.5 dB 0 dBm	y) NVNT 2- SENSE-PULS C: Fast → Trig: pain:Low → #Attr #Attr #Attr #VBW 3000 × 3.095 dBm	-DH5 24(Status	Emission Emission 02:28:18 PM Nov 08, 20 TRACE I 2 3 4 TYPE I MAY 08, 20 TRACE I 2 3 4 TYPE I MAY 08, 20 TRACE I 2 3 4 TYPE I MAY 08, 20 TRACE I 2 3 4 TABLE I 2 4 T	
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Band Edge (Honning) NIV/NIT 2 DHE 2402MHz Honning Dof

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nter Freq 2.48	PI		Γrig: Free Run ŧAtten: 30 dB	Avg Type: L Avg Hold: 20	og-Pwr 00/2000	т	TYPE MWWW DET P N N I
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Band E RL RF	dge(Hoppin ^{- Swept SA}		2-DH5 24	80MHz Ho	opping	Emiss	s (1001 p iON
Band E Keysight Spectrum Analyze	cdge(Hopping r-Swept SA 50 Ω AC 6000000 GHz	g) NVNT	2-DH5 24	80MHz Ho	opping	2 1.000 m Emiss	S (1001 p ION 1 PM Nov 08, 2 RACE 1 2 3 4 TYPE I WWW
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Band E Band E Keysight Spectrum Analyze Enter Freq 2.52	Edge(Hopping	g) NVNT	2-DH5 24		og-Pwr 00/1500	o 1.000 m Emiss 02:29:5 ™ Mkr1 2.4 2. 9.500 m	s (1001 p iON IPMNOV 08,2 IPMNOV 08,2 IPMN
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Band E Band E Keysight Spectrum Analyze RL RF Inter Freq 2.52 Band E Ref Offss Ref 20. Ref Offss Ref 20.	Cdge(Hopping r-Swept SA 500 000 GHz P IF et 0.5 dB 00 dBm 2478 2 GHz 2.478 2 GHz 2.478 2 GHz 2.483 5 GHz 2.483 5 GHz 2.500 0 GHz	g) NVNT	2-DH5 24		og-Pwr 00/1500	o 1.000 m Emiss 02:29:5 ™ Mkr1 2.4 2. 9.500 m	s (1001 p iON IPMNOV 08,2 IPMNOV 08,2 IPMN



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enter F	RF Freq 2.4	50 Ω AC 1020000	00 GHz	NO: Wide	NSE:PULSE		LIGN AUTO Avg Type: L Avg Hold: 2		02:33	51 PM Nov 08, 20 TRACE 1 2 3 4 TYPE MWWW
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E		Edge	<u>`</u>				status 2MHz H			sion
Keysight Sp R L	ectrum Anal RF	Edge		g) NVN		H5 2402	2MHz H	opping	Emise	SiON 25 PM Nov 08, 20
Keysight Sp R L	ectrum Anal RF	Edge	00 GHz	g) NVN	IT 3-D	H5 2402	2MHz H	opping	Emise	25 PM Nov 08, 20 TRACE 1 2 3 4 3 TYPE M MAANA
Keysight Sp RL enter F	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	Sion 25 PMNov 08, 20 TRACE 1 2 3 4 3 TYPE MWWW DET P N N N 402 8 GH
E RL enter F	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	Sion 25 PMNov 08, 20 TRACE 1 2 3 4 3 TYPE MWWW DET P N N N 402 8 GH
C dB/div	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	Sion 25 PM Nov 08, 20 TRACE [1 2 3 TYPE M WWW DET P NNNI 402 8 GH 4.256 dBi
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E Keysight Sp RL enter F	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	25 PM NOV 08, 20 25 PM NOV 08, 20 TRACE [2 3 4 TYPE M WWWW DET P N N N 402 8 GH 4.256 dBI
C dB/div	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	25 PM NOV 08, 20 25 PM NOV 08, 20 TYPE M WWWW DET P N N N 402 8 GH 4.256 dBI
C dB/div	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	25 PM NOV 08, 20 25 PM NOV 08, 20 TYPE M WWWW DET P N N N 402 8 GH 4.256 dBI
C dB/div	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	A Constraint of the second sec
C dB/div 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF req 2.3 Ref Of	Edge yzer - Swept SA 50 Ω AG 3560000 fiset 0.5 dB	00 GHz		IT 3-D INSE:PULSE	H5 2402	2MHz H	opping	Emiss 02:34 Mkr1 2.	25 PM NOV 08, 20 25 PM NOV 08, 20 TYPE M WWWW DET P N N N 402 8 GH 4.256 dBI
E Keysight Sp RL 0 dB/div 9 0 0.0 0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0	Ref Of Ref Of Ref 2.3	Edge jso 2 ac 3560000 πset 0.5 dB 0.00 dBr	00 GHz	g) NVN	IT 3-D NSE:PULSE Trig: Fre #Atten: 3	H5 240:	2MHz H	opping .og-Pwr 000/2000	Emiss 02:34 Mkr1 2.	SiON 25 PMNov 08, 20 TRACE 1, 2, 3, 4, TYPE 402, 8 GH 4.256 dBi 4.256 dBi 4.256 dBi 2.40600 GH
C dB/div 9 0 dV 9 0 dV 9 0 dV 0	Ref Of Ref Of Ref 2.3	Edge jso 2 ac 3560000 πset 0.5 dB 0.00 dBr	00 GHz	g) NVN	IT 3-D NSE:PULSE . Trig: Fre #Atten: 3	H5 2402	2MHz H	opping og-Pwr o00/2000	Emiss 02:34 Mkr1 2. 03 5top p 9.600 n	SiON 125 PM NOV 08, 20 TRACE 1, 2, 3, 4 TYPE MANY OF 20 0 00 00 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Keysight Sp RL enter F o dB/div g g 0.0	Ref Of Ref Of Ref 2	Edge jso 2 ac 3560000 πset 0.5 dB 0.00 dBr	00 GHz	g) NVN SE PRO: Fast →→→ FGain:Low #VB 4.256 -53.861 -53.841	IT 3-D NSE:PULSE . Trig: Fre #Atten: 3	H5 2402	2MHz H	opping og-Pwr o00/2000	Emiss 02:34 Mkr1 2. 03 Stop p 9.600 n	SiON 125 PM Nov 08, 20 TRACE 1, 2, 3, 4 TYPE MANY 2017 PNN NI 402 8 GH 4.256 dBI 4.256 dBI 4.256 dBI 4.256 dBI 2.40600 GH ns (1001 pt
Keysight Sp RL enter F 0 dB/div 0 g 0 0.0 0.0 </td <td>Ref Of Ref Of Ref 2.3</td> <td>Edge jso 2 ac 3560000 πset 0.5 dB 0.00 dBr</td> <td>00 GHz</td> <td>g) NVN SE PRO: Fast →→→ FGain:Low #VB 4.256 -53.861 -53.841</td> <td>IT 3-D NSE:PULSE . Trig: Fre #Atten: 3</td> <td>H5 2402</td> <td>2MHz H</td> <td>opping og-Pwr o00/2000</td> <td>Emiss 02:34 Mkr1 2. 03 Stop p 9.600 n</td> <td>SiON 125 PM Nov 08, 20 TRACE 1, 2, 3, 4 TYPE MAN 1,256 dBi 402, 8 GH 4,256 dBi -17 08 dI 2,256 dBi 2,200 dBi 2,200 dBi 1,256 dBi 2,200 dBi 1,256 dBi 1,</td>	Ref Of Ref Of Ref 2.3	Edge jso 2 ac 3560000 πset 0.5 dB 0.00 dBr	00 GHz	g) NVN SE PRO: Fast →→→ FGain:Low #VB 4.256 -53.861 -53.841	IT 3-D NSE:PULSE . Trig: Fre #Atten: 3	H5 2402	2MHz H	opping og-Pwr o00/2000	Emiss 02:34 Mkr1 2. 03 Stop p 9.600 n	SiON 125 PM Nov 08, 20 TRACE 1, 2, 3, 4 TYPE MAN 1,256 dBi 402, 8 GH 4,256 dBi -17 08 dI 2,256 dBi 2,200 dBi 2,200 dBi 1,256 dBi 2,200 dBi 1,256 dBi 1,
Keysight Sp RL enter F od B/div od	Ref Of Ref Of Ref 2	Edge jso 2 ac 3560000 πset 0.5 dB 0.00 dBr	00 GHz	g) NVN SE PRO: Fast →→→ FGain:Low #VB 4.256 -53.881 -53.881	IT 3-D NSE:PULSE . Trig: Fre #Atten: 3	H5 2402	2MHz H	opping og-Pwr o00/2000	Emiss 02:34 Mkr1 2. 03 Stop p 9.600 n	SiON 125 PM Nov 08, 20 TRACE [2 34 TYPE M AND DET P NN NI 402 8 GH 4.256 dBI 4.256 dBI 4.256 dBI 2.40600 GH ns (1001 pt
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



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Keysight Spectrum Analyzer RL RF enter Freg 2.480	50 Ω AC	SENSE:PU		Avg Type:	Log-Pwr	1	3 PM Nov 08, 20 RACE 1 2 3 4 5
Sincer Freq 2.400	PN		g: Free Run tten: 30 dB	Avg Hold: 2	2000/2000		DET P N N N
Ref Offse dB/div Ref 20.0					М	kr1 2.478 2	8 968 GF .690 dBi
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Res BW 100 kHz				status ROMH7 H		p 1.000 m	s (1001 pt
Res BW 100 kHz Band E Keysight Spectrum Analyzer	dge(Hopping	g) NVNT 3	B-DH5 248	30MHz H		p 1.000 m Emiss	s (1001 pt ion
Res BW 100 kHz Band E Keysight Spectrum Analyzer	dge(Hopping - Swept SA 50 Ω AC 50 5000000 GHz	3) NVNT 3	B-DH5 248	BOMHZ H	lopping	p 1.000 m Emiss	s (1001 pt iON 7 PM Nov 08, 20 RACE 1 2 3 4 5
Band E Band E RL RF	dge(Hopping - Swept SA 50 Ω AC 6000000 GHz) NVNT 3 SENSE:PU Ю: Fast →→ Tri	B-DH5 248	BOMHZ H	lopping	p 1.000 m Emiss ^{02:36:0}	S (1001 pt iON 7 PMNov 08, 20 RACE 1 2 3 4 TYPE MWWW DET P NNNI
Res BW 100 kHz Band E Band E Keysight Spectrum Analyzer RL RF enter Freq 2.520 Ref Offse dB/div Ref 20.0	dge(Hopping - Swept SA کان کر ا 6000000 GHz اFC ot 0.5 dB) NVNT 3 SENSE:PU IO: Fast ↔ Tri	3-DH5 248	BOMHZ H	lopping	p 1.000 m J Emiss	s (1001 pt iON 7 PM Nov 08, 20 RACE 1 2 3 4 3 TYPE M WWW DET P N N NI 779 1 GH
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Res BW 100 kHz Band E Band E Keysight Spectrum Analyzer RL RF enter Freq 2.520 Ref Offse Ref 20.0	dge(Hopping - Swept SA کان کر ا 6000000 GHz اFC ot 0.5 dB) NVNT 3 SENSE:PU IO: Fast ↔ Tri	3-DH5 248	BOMHZ H	lopping	p 1.000 m J Emiss	s (1001 pt iON 7 PM Nov 08, 20 RACE 234 5 0 ct 334 5
Res BW 100 kHz Band E Band E Keysight Spectrum Analyzer RL RF enter Freq 2.521 Ref Offse Ref Offse Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	dge(Hopping - Swept SA کان کر ا 6000000 GHz اFC ot 0.5 dB) NVNT 3 SENSE:PU IO: Fast ↔ Tri	3-DH5 248	BOMHZ H	lopping	p 1.000 m J Emiss	s (1001 pt iON 7 PMNov 08, 20 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 779 1 GH
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Res BW 100 kHz Band E Band E Keysight Spectrum Analyzer RL RF enter Freq 2.521 Ref Offse dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	dge(Hopping - Swept SA کان کر ا 6000000 GHz اFC ot 0.5 dB) NVNT 3 SENSE:PU IO: Fast ↔ Tri	3-DH5 248	BOMHZ H	lopping	p 1.000 m J Emiss	s (1001 pt iON 7 PMNov 08, 20 RACE 234 5 DET P NNNM 0ET P NNNM 779 1 GH .300 dBr
Res BW 100 kHz Band E Band E Keysight Spectrum Analyzer RL RF enter Freq 2.520 Ref Offse Ref 20.0 Ref 20.0	dge(Hopping - Swept SA کان کر ا 6000000 GHz اFC ot 0.5 dB) NVNT 3 SENSE:PU IO: Fast ↔ Tri	3-DH5 248	BOMHZ H	lopping	p 1.000 m Emiss 02:36: Mkr1 2.4 3	s (1001 pt ion 7 PMNv06,20 7 P
Res BW 100 kHz Band E Band E Reysight Spectrum Analyzer RL RF enter Freq 2.520 Ref Offse Ref 20.0 Control of the spectrum analyzer Ref Offse Ref 20.0 Control of the spectrum analyzer Ref Offse Ref 20.0 Control of the spectrum analyzer Ref 20.0 Control of the spectrum an	dge(Hopping - Swept SA کان کر ا 6000000 GHz اFC ot 0.5 dB) NVNT 3 SENSE:PU IO: Fast ↔ Tri	B-DH5 248	BOMHZ H	Log-Pwr 2000/2000	p 1.000 m Emiss 02:36: Mkr1 2.4 3	s (1001 pt iON 7 PM Nov 08,20 RACE 2.3 4.5 7.7 9 1 GH .300 dBr .17.31 dE .17.31 dE .57600 GH
Res BW 100 kHz Band E Band E Reysight Spectrum Analyzer Ref Offse d B/div Ref 20.0 Ref Offse Ref 20.0 Comparison Ref 20.0 Ref 20.0 Comparison Ref 20.0 Ref 20.0	A C C C C C C C C C C C C C C C C C C C	g) NVNT 3	B-DH5 248	BOMHZ H	Log-Pwr 2000/2000	p 1.000 m Emiss 02:36:0 	s (1001 pt iON 7 PM Nov 08,20 RACE 2.3 4.5 7.7 9 1 GH .300 dBr .17.31 dE .17.31 dE .57600 GH
Res BW 100 kHz Band E Band E Reysight Spectrum Analyzer RL RF enter Freq 2.520 Ref Offse Ref Offse Ref 20,0 Control of the second sec	dge(Hopping - Swept SA 5000000 GHz PP IFC t0.5 dB 00 dBm 4 2.479 1 GHz 2.479 1 GHz 2.479 1 GHz	(c) NVNT 3 SENSE:PU IO: Fast →→ Tri Jain:Low → #A SENSE:PU IO: Fast →→ Tri IO: Fast	B-DH5 248	BOMHZ H	Log-Pwr 2000/2000	p 1.000 m	s (1001 pt iON 7 PM Nov 08,20 RACE 2.3 4.5 7.7 9 1 GH .300 dBr .17.31 dE .17.31 dE .57600 GH
Res BW 100 kHz 3 Band E Keysight Spectrum Analyzer Ref enter Freq 2.521 Ref Offse dB/div Ref 20.1 0 1 0 1 0 1 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 1 1 2 1 1 1 2 1 1 1 2 1	Classification of the second	(2) NVNT 3 SENSE:PU IO: Fast →→ Tri Sain:Low → #A	B-DH5 248	BOMHZ H	Log-Pwr 2000/2000	p 1.000 m	s (1001 pt iON 7 PMNv 06,20 7 PMNv 06,20
Res BW 100 kHz 3 Band E Keysight Spectrum Analyzer Ref enter Freq 2.521 Ref Offse dB/div Ref 20.1 0 1 0 1 0 1 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 1 1 2 1 1 1 2 1 1 1 2 1	A C C C C C C C C C C C C C C C C C C C	(C) Rast → Tri sain:Low → #A	B-DH5 248	BOMHZ H	Log-Pwr 2000/2000	p 1.000 m	s (1001 pt iON 7 PMNv 06,20 7 PMNv 06,20
Res BW 100 kHz Band E Band E Reysight Spectrum Analyzer RL RF enter Freq 2.520 Ref Offse Ref Offse Ref 20,0 Control of the second sec	A C C C C C C C C C C C C C C C C C C C	(C) Rast → Tri sain:Low → #A	B-DH5 248	BOMHZ H	Log-Pwr 2000/2000	p 1.000 m	s (1001 pt iON 7 PM Nov 08,20 RACE 2.3 4.5 7.7 9 1 GH .300 dBr .17.31 dE .17.31 dE .57600 GH

Band Edge(Hopping) NV/NT 3-DH5 2480MHz Hopping Ref

Shenzhen STS Test Services Co., Ltd.



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9. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-46.22	<=-20	Pass
NVNT	1-DH5	2441	-44.74	<=-20	Pass
NVNT	1-DH5	2480	-46.65	<=-20	Pass
NVNT	2-DH5	2402	-46.44	<=-20	Pass
NVNT	2-DH5	2441	-45.03	<=-20	Pass
NVNT	2-DH5	2480	-45.41	<=-20	Pass
NVNT	3-DH5	2402	-46.02	<=-20	Pass
NVNT	3-DH5	2441	-43.88	<=-20	Pass
NVNT	3-DH5	2480	-44.51	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.

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			Irious N	VNT 1-DH	l5 2402MHz	z Ref		
Keysight S _i R L	pectrum Analyzer - Swept S RF 50 Ω A		SEN	NSE:PULSE	ALIGN AUTO			PM Nov 08, 2
	req 2.4020000	00 GHz	NO: Wide	Trig: Free Run	Avg Type: L Avg Hold: 10		TR4 T	ACE 1 2 3 4 YPE M WWW
			PNO:Wide ↔ FGain:Low	Atten: 30 dB			1	DET P N N N
	Ref Offset 0.5 dB					Mkr	1 2.401 82	
dB/div	Ref 20.00 dBr	n	· · · ·				1.3	551 dB
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nter 2	.4020000 GHz				· · · ·		Span	1.500 M
es BW	/ 100 kHz		#VB\	N 300 kHz		#Swee	p 100.0 ms	(1001 p
					STATUS			
			ous NVN	IT 1-DH5 2	status 2402MHz E	missio	n	
Keysight S R L	pectrum Analyzer - Swept S	A			2402MHz E	missio	01:43:45	
RL	pectrum Analyzer - Swept S	a c 0000 GHz	SEM	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T	PM Nov 08, 2 ACE 1 2 3 4 YPE M WWW
RL	pectrum Analyzer - Swept S RF 50 Ω A	a c 0000 GHz			2402MHz E	.og-Pwr	01:43:45 TR/ T	PM Nov 08, 2 ACE 1 2 3 4 YPE M WWW
RL	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PM Nov 08, 2 ACE 1 2 3 4 YPE M WWW DET P N N N
RL	pectrum Analyzer - Swept Sa RF 50 Ω A Freq 13.265000	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PM Nov 08, 2 ACE 1 2 3 4 YPE M WWW DET P N N N
nter f	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PM Nov 08, 2 ACE 1 2 3 4 YPE M WWW DET P N N N
dB/div	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PM Nov 08, 2 ACE 1 2 3 4 YPE M WWW DET P N N N
dB/div 9 0	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PMNov 08, 2 ACE 1 2 3 4 YPE MWAWA DET P N N N 01 7 GI 705 dB
dB/div 9 0 0	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PMNov 08, 2 ACE 1 2 3 4 YPE MWAWA DET P N N N 01 7 GI 705 dB
RL Inter f 0 0 0 0 0 0	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	NSE:PULSE	2402MHz El Align auto Avg Type: L	.og-Pwr	01:43:45 TR/ T Mkr1 2.40	PMNov 08, 2 ACE 1 2 3 4 YPE M WWW DET P N N N 01 7 GI 705 dB
RL inter F 0 0 0 0 0 0 0 0 0 0 0	Ref Offset 0.5 dE	A C DOOO GHz	SEN PNO: Fast ↔	YSE:PULSE	ALIGN AUTO AVG Type: L Avg Hold: 10	og-Pwr //10	01:43:45 TR/ T Mkr1 2.40	PMNov 08, 2 ACE 1 2 3 4 YPE M WWW DET P N N N 01 7 GI 705 dB
RL Inter F 0 0 0 0 0 0 0 0 0 0 0 0	Ref Offset 0.5 dE	A C C C C C C C C C C C C C	PNO: Fast → FGain:Low	YSE:PULSE	ALIGN AUTO AVG Type: L Avg Hold: 10	og-Pwr //10	01:43:45 TRV T Mkr1 2.40 -6.7	PMNov 08, 2 ACE 11 2 3 4 VPE M WMM DET P N NN 011 7 GI 705 dB
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adB/div 9 0	Ref Offset 0.5 dE Ref 20.00 dBr		PNO: Fast → FGain:Low →	VSE:PULSE	ALIGN AUTO AVG Type: L Avg Hold: 10	og-Pwr I/10	01:43:45 TRU T Mkr1 2.40 -6.7	PMNov 08,2 Act 1 2 3 4 YPE M WWW DET IP NNN DET IP NNN -18.45
RL Inter f 9 0<	Ref Offset 0.5 dE Ref 20.00 dBr	A C C C C C C C C C C C C C	PNO: Fast +++ FGain:Low +++	VSE:PULSE	ALIGN AUTO AVG TYPE: L Avg Typ	og-Pwr I/10	01:43:45 TRV TRV TRV TRV TRV TRV TRV TRV TRV TRV	PMNov 08,2 Act 1 2 3 4 YPE M WWW DET IP NNN DET IP NNN -18.45
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RL nter I alb/div alb/di alb/div alb/div alb/div alb/div alb/div alb/div a	Pettum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE Ref 20.00 dBr 1 3 GHz 1 100 kHz RES 221 1 1	A C D000 GHz II 3 m 3 4 4 4 4 4 4 4 4 4 4 4 4 4	FRO: Fast → FGain:Low → FGain:Low ↓ 5 #VBL #VBL	VSE:PULSE Trig: Free Run Atten: 30 dB	ALIGN AUTO AVG TYPE: L Avg Typ	og-Pwr I/10	01:43:45 TRV TRV TRV TRV TRV TRV TRV TRV TRV TRV	PMNov 08,2 Act 1 2 3 4 YPE M WWW DET IP NNN DET IP NNN -18.45
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	Tx. Sp						
Keysight Spectrum Anal RL RF	yzer - Swept SA 50 Ω AC	SENS	E:PULSE	ALIGN AUTO		01:47:0	9 PM Nov 08, 20
enter Freq 2.4	41000000 GHz			Avg Type: I	_og-Pwr	т	TYPE MWWW
		PNO: Wide +++ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 1	00/100		DET P N N N
Bof Off	set 0.5 dB				Mkr1	2.440 8	324 5 GI
dB/div Ref 2	0.00 dBm					0	.929 dB
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Res BW 100 kH		#VBW	300 kHz	07.17.10	#Sweep		
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G Keysight Spectrum Anal	z Tx. Spuri _{yzer - Swept SA}	ous NVN ⁻	T 1-DH5 2	2441MHz E		ס 100.0 m ר	s (1001 p1
G Keysight Spectrum Anal R L RF	z Tx. Spuri	ous NVN ⁻		2441MHz E	missior	01:47:1	s (1001 pt
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G Keysight Spectrum Anal R L RF	z Tx. Spuri	OUS NVN ⁻	T 1-DH5 2	2441MHz E Align Auto Avg Type: 1	-og-Pwr 0/20	01:47:1 1	s (1001 pt B PMNov 08, 20 RACE 1 2 3 4 1 TYPE M WANN DET P N N N
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Tx. Spurious NVNT 1-DH5 2441MHz Ref



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	trum Analyzer - Swep							
RL Fre	RF 50 Ω eq 2.480000	AC 000 GHz	SENS	E:PULSE	ALIGN AUTO Avg Type: Lo	og-Pwr	01:51:4 T	6 PM Nov 08, 20 RACE 1 2 3 4 1
	2.40000	F	PNO: Wide	Trig: Free Run Atten: 30 dB	Avg Hold: 30	0/300		DET P N N N
	Ref Offset 0.5 d					Mkr	1 2.480 1	
	Ref 20.00 dE						1	.595 dB
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tes BW 1	UU KHZ		#VBW	300 kHz		#Swee	o 100.0 m	s (1001 pi
6								
		- ·			STATUS			
			us NVN	T 1-DH5 2	status 480MHz Er	nissioi	1	
RL	trum Analyzer - Swep RF 50 Ω	AC		T 1-DH5 2	480MHz Er		01:51:5	5 PM Nov 08, 20
RL	trum Analyzer - Swep	AC 00000 GHz	SENSI	E:PULSE	480MHz Er	og-Pwr	01:51:5	5 PM Nov 08, 20 RACE 1 2 3 4 5 TYPE M WWW
RL	trum Analyzer - Swep RF 50 Ω	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T	TYPE M Nov 08, 20 RACE 1 2 3 4 1 TYPE M WWW DET P N N N
RL Enter Fre	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T Mkr1 2.4	5 PM Nov 08, 20 RACE 1 2 3 4 1 TYPE MWWW DET P N N N
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dB/div	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T Mkr1 2.4	5 PM Nov 08, 20 RACE 1 2 3 4 1 TYPE MWWW DET P N N N
enter Fre	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T Mkr1 2.4	5 PM Nov 08, 20 RACE 1 2 3 4 1 TYPE MWWW DET P N N N
dB/div g 0.0	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T Mkr1 2.4	5 PMNov 08, 20 RACE 2 3 4 + TYPE WWWW DET N N N 653 dBi
dB/div 9 0.0 0.0 0.0	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T Mkr1 2.4	5 PMNov 08, 20 RACE 2 3 4 + TYPE WWWW DET N N N 653 dBi
dB/div g g 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	480MHz Er Align Auto Avg Type: Lo	og-Pwr /20	01:51:5 T Mkr1 2.4	5 PMNov 08, 20 RACE 2 3 4 + TYPE WWWW DET N N N 653 dBi
RL Image: constraint of the second seco	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	ALIGN AUTO AVg Type: Lc Avg Hold: 20	pg-Pwr /20	01:51:5 T Mkr1 2.4	5 PMNov 08, 20 RACE 2 3 4 + TYPE WWWW DET N N N 653 dBi
RL Image: constraint of the second seco	rum Analyzer - Swep RF 50 Ω 29 13.26500 Ref Offset 0.5 0	AC 00000 GHz	SENSI	E:PULSE	ALIGN AUTO AVg Type: Lc Avg Hold: 20	pg-Pwr /20	01:51:5 T Mkr1 2.4	5 PMNov 08, 20 RACE 2 3 4 + TYPE WWWW DET N N N 653 dBi
RL 0 dB/div 0 g 0 0	rum Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 0.5 c Ref 20.00 dl 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 00000 GHz	SENSI PNO: Fast FGain:Low	E:PULSE	ALIGN AUTO AVg Type: Lc Avg Hold: 20	pg-Pwr 20	01:51:5 T Mkr1 2.4 -3	5 PMNOV 08, 20 RACE [] 2 3 4 TYPE/MYWWW DET P N NN 81 1 GH 653 dBI 1841 d
RL Presenter Prese	rum Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 0.5 c Ref 20.00 dB 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 00000 GHz	SENSI PNO: Fast FGain:Low	EPULSE	480MHz Er	pg-Pwr 20	01:51:5 T Mkr1 2.4 -3	5 PMNOV 08, 20 RACE [] 2 3 4 TYPE/MYWWW DET P N NN 81 1 GH 653 dBI 1841 d
RL Image: constraint of the second seco	rum Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 0.5 c Ref 20.00 dE 1 1 Control of the second seco	2481 1 GHz	SENSI PNO: Fast FGain:Low	EPULSE	ALIGN AUTO AVg Type: Lc Avg Hold: 20	pg-Pwr 20	01:51:5 T Mkr1 2.4 -3	5 PMNOV 08, 20 RACE [] 2 3 4 TYPE/MYWWW DET P N NN 81 1 GH 653 dBI 1841 d
RL Image: Control of the second	trum Analyzer - Swep RF 50 Ω eq 13.265000 Ref Offset 0.5 G Ref 20.00 dB 1 1 GHZ GHZ GHZ 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	x 2.481 1 GHz 2.486 8 GHz 5.112 2 GHz	PNO: Fast FGain:Low #VBW 3.653 df -45.053 df -45.053 df	E:PULSE	480MHz Er	pg-Pwr 20	01:51:5 T Mkr1 2.4 -3	5 PMNOV 08, 20 RACE [] 2 3 4 TYPE/MYWWW DET P N NN 81 1 GH 653 dBI 1841 d
RL Image: constraint of the second seco	trum Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 0.5 c Ref 20.00 dB 1 1 6 1 6 1 6 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	x 2.481 1 GHz 2.481 1 GHz 2.481 1 GHz 2.481 7 GHz	SENSI PNO: Fast FGain:Low #VBW #VBW	EPULSE	480MHz Er	pg-Pwr 20	01:51:5 T Mkr1 2.4 -3	5 PMNOV 08, 20 RACE [] 2 3 4 TYPE/MYWWW DET P N NN 81 1 GH 653 dBI 1841 d
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RL Participation 0 dE/div 0	trum Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 0.5 c Ref 20.00 dB 1 1 6 1 6 1 6 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	x 2.481 1 GHz 2.481 1 GHz 2.481 1 GHz 2.481 7 GHz	SENSI PNO: Fast FGain:Low #VBW #VBW	EPULSE	480MHz Er	pg-Pwr 20	01:51:5 T Mkr1 2.4 -3	5 PMNOV 08, 20 RACE [] 2 3 4 TYPE/MYWWW DET P N NN 81 1 GH 653 dBI 1841 d
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Tx. Spurious NVNT 1-DH5 2480MHz Ref



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	m Analyzer - Swept SA RF 50 Ω AC		SENS	E:PULSE	AL	IGN AUTO		01:59	:39 PM Nov 08, 20
	2.4020000	00 GHz	NO: Wide	Trig: Free Run		Avg Type: Avg Hold:			TRACE 1 2 3 4 1
			Gain:Low	Atten: 30 dB					DET PNNN
	ef Offset 0.5 dB ef 20.00 dBn						Mk		099 0 GH 0.678 dBi
odB/div R	er 20.00 abri								
10.0					A 1				
		the star when the star		ellift rates of all of the sec	1	مىيەر روپ روپ مەرد مەردەر روپ روپ مەرد	and the View of		
	M. W. T. M. T. M. T.	V						Colleman March	
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60.0									
0.0									_
enter 2 402				A				0.7.4	an 1.500 MH
CINCI 2.402	20000 GHz							spa	
Res BW 10			#VBW	300 kHz			#Swee		
	0 kHz					STATUS		ep 100.0 r	
Res BW 10	0 kHz	. Spurio	#vвw us NVN		2402			ep 100.0 r	ns (1001 pt
Res BW 10	0 kHz Tx m Analyzer - Swept SA	4	us NVN	T 2-DH5		2MHz E		ep 100.0 r)N	ns (1001 pt
Res BW 10	0 kHz Tx m Analyzer - Swept SA	000 GHz	US NVN	T 2-DH5	AL	2MHz E	Emissic	ep 100.0 r)N	ns (1001 pt
Res BW 10	0 kHz Tχ m Analyzer - Swept SA RF 50 Ω AG	000 GHz	us NVN	T 2-DH5	AL	2MHz E	Emissic	ep 100.0 r)N	ns (1001 pt
Res BW 10	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 01:59	ns (1001 pt 149 PM Nov 08, 20 TRACE 1 2 3 4 TYPE M WWWW DET P N N N
Res BW 10	0 kHz Tx m Analyzer - Swept SA RF 50 Ω A(13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 01:59	ns (1001 pt 149 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N 402 6 GH
Res BW 10	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 01:59	ns (1001 pt 149 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N 402 6 GH
Res BW 10 G Keysight Spectru RL enter Frec G dB/div R C dB/div R C G C G C G C G C G C G C G C G	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 Mkr1 2.	ns (1001 pt 149 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N 402 6 GH
Res BW 10 G Keysight Spectru RL enter Free O dB/div G G G G G G G G G G G G G G G G G G G	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 Mkr1 2.	ns (1001 pt
Res BW 10 G G Keysight Spectru RL RL RL RL RL RL RL RL RL R RL R RL	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 Mkr1 2.	ns (1001 pt
Res BW 10 G Keysight Spectru RL enter Free O dB/div G G G G G G G G G G G G G G G G G G G	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5	AL	2MHz E	Emissic	on 01:59 Mkr1 2.	ns (1001 pt
Res BW 10 sg keysight Spectru RL enter Frec 0 dB/div 9 10.0 0.00 0.00 0.00	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5		2MHz E	Emissic	ep 100.ó r on 01:59 Mkr1 2. 	ns (1001 pt ::49 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE M ber P NNN1 402 6 GH 4.493 dBr 19.32 d
Res BW 10 sg keysight Spectru RL enter Frec 0 dB/div 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5		Avg Type: Avg Type: AvgHold:	Emissic	ep 100.ó r on 01:59 Mkr1 2.	ns (1001 pt ::49 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE M ber P NNN1 402 6 GH 4.493 dBr 19.32 d
Res BW 10 sg keysight Spectru RL enter Frec 0 dB/div S 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 kHz Tx m Analyzer - Swept S2 RF 50 Ω AC 13.265000	000 GHz		T 2-DH5		2MHz E	Emissic	ep 100.ó r on 01:59 Mkr1 2.	ns (1001 pt ::49 PM Nov 08, 20 TRACE 1 2 3 4 5 TYPE M ber P NNN1 402 6 GH 4.493 dBr 19.32 d
Res BW 10 ag Rt Rt enter Freq 0 B/div 9 0.00	0 kHz	000 GHz		T 2-DH5		Avg Type: Avg Type: AvgHold:	Emissic	ep 100.0 r on 01:59 Mkr1 2. -4	ns (1001 pt
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Res BW 10 ag RL enter Frec 0 dB/div 9	0 kHz	x		T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt :49 PMNov 08, 20 TRACE [] 2345 177PE [MV 08, 20 DET P NNNN 402 6 GH 4.493 dBr 19.32 dE 19.32 dE
Res BW 10 ag keysight Spectru RL enter Frec 0 dB/div 9 10.0 0.01 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03	0 kHz	000 GHz F F F F F F F F F F F F F	US NVN SENS PNO: Fast Gain:Low 	T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt
Res BW 10 ag Keysight Spectru RL enter Frec 0 dB/div 80 0 dB/div 90 0.00	0 kHz	2.402 6 GHz 2.402 6 GHz 2.402 6 GHz 2.404 3 GHz	US NVN SENS PNO: Fast + Gain:Low **** ***** ***********************	T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt
Res BW 10 ag Revelopt Spectru RL enter Frec 0 dB/div 9 0 dB/div 0 dB/div 9 10 dB/div 10 dB/div 10 dB/div 11 dB/div 12 N 13 N 4 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 kHz Tx m Analyzer - Swept 52 RF 50.0 13.265000 tef Offset 0.5 dB tef 20.00 dBn 1 1 1 1 1 1 1 1 1 1 1 1 1	2.402 6 GHz 2.402 6 GHz 2.402 6 GHz 2.403 4 GHz	US NVN SENS	T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt
Res BW 10 ag Revelopt Spectru RL enter Frec 0 dB/div 9 0 dB/div 0 dB/div 9 10 dB/div 10 dB/div 10 dB/div 11 dB/div 12 N 13 N 4 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 kHz	2.402 6 GHz 2.402 6 GHz 2.402 6 GHz 2.404 3 GHz	US NVN SENS PNO: Fast + Gain:Low **** ***** ***********************	T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt
Res BW 10 ag RL enter Frec 0 dB/div 80 0 dB/div 90 0.0	0 kHz	2.402 6 GHz 2.402 6 GHz 2.402 6 GHz 2.404 3 GHz	US NVN SENS PNO: Fast + Gain:Low **** ***** ***********************	T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt
Res BW 10 3G RL enter Free 0 dB/div 9 10.0 0.00 </td <td>0 kHz</td> <td>2.402 6 GHz 2.402 6 GHz 2.402 6 GHz 2.404 3 GHz</td> <td>US NVN SENS PNO: Fast + Gain:Low **** ***** ***********************</td> <td>T 2-DH5</td> <td></td> <td>2MHz E</td> <td>Emissic</td> <td>ep 100.0 r</td> <td>ns (1001 pt</td>	0 kHz	2.402 6 GHz 2.402 6 GHz 2.402 6 GHz 2.404 3 GHz	US NVN SENS PNO: Fast + Gain:Low **** ***** ***********************	T 2-DH5		2MHz E	Emissic	ep 100.0 r	ns (1001 pt

Tx. Spurious NVNT 2-DH5 2402MHz Ref



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Keysight Spectrum Analyzer - Swept SA OD Sense: PULSE ALIGN AUTO OD OD <th>201255 PM Nov 08, TRACE 1 2 3 TYPE M WW DET P NN 11 126 0 C 0.025 dl</th>	201255 PM Nov 08, TRACE 1 2 3 TYPE M WW DET P NN 11 126 0 C 0.025 dl
Avg Type: Log-Pwr Avg]Hold: 100/100 Avg]Hold: 100/100 Mkr1 2.44 Bl/div Ref 20.00 dBm Avg Type: Log-Pwr Avg]Hold: 100/100 Mkr1 2.44	TRACE 1 2 3 TYPE MWW DET P NN
PHO: Wide PHO: Wide Mkr1 2.44 Atten: 30 dB Mkr1 2.44 Mkr1 4.44 Mkr1 4.	DET P NN
Ref Offset 0.5 dB Mkr1 2.44 dB/div Ref 20.00 dBm	1 126 0 G
Ref 20.00 dBm	
B/div Ref 20.00 dBm	v.v25 dl
	1
nter 2.4410000 GHz Si	pan 1.500 M
es BW 100 kHz #VBW 300 kHz #Sweep 100.0	
STATUS	
	2:01:36 PM Nov 08,
enter Freq 13.265000000 GHz Avg Type: Log-Pwr PNO: East ++ Trig: Free Run Avg Hold: 10/10	TRACE 1 2 3 TYPE MWW DET P N N
PNO: Fast +>- Ing: Free Run Avg[Hold: 10/10 IFGain:Low Atten: 30 dB	DET P N N
Def Offent 0.5 dB Mkr1 (2.441 4 G
Ref Offset 0.5 dB dB/div Ref 20.00 dBm	-5.367 di
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.0	-19.9
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art 0.03 GHz S	Stop 26.50 C
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0 3 4 5 0 3 4 5 0 3 4 5 0 3 4 5 0 3 4 5 0 3 4 5 0 3 4 5 0 3 4 5 0 3 4 5 0 4 4 0 4	ms (30001
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Tx. Spurious NVNT 2-DH5 2441MHz Ref



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Keysight Sp R L	ectrum A RF		AC	SEI	NSE:PULSE	Δι	IGN AUTO		02:03	35 PM Nov 08, 20
		2.480000	000 GHz				Avg Type: Lo Avg Hold: 10	og-Pwr	02.03	TRACE 1 2 3 4 5
				PNO:Wide ↔ FGain:Low	Trig: Free Run Atten: 30 dB		Avginoid: 10	0/100		DET P N N N
	Ref	Offset 0.5 d	в					Mkr		079 5 GH
og		20.00 dB								0.686 dB
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enter 2.	48000								Sna	an 1.500 MH
				#VB\	N 300 kHz			#Swee		ns (1001 pt
		kHz					STATUS		ep 100.0 r	
Res BW		kHz	<. Spuric		№ 300 кнz IT 2-DH5	2480			ep 100.0 r	
SG Keysight Sp	100 I	kHz T) Malyzer - Swept	SA	ous NVN	IT 2-DH5		OMHz Ei		ep 100.0 r N	ns (1001 pt
G Keysight Sp R L	100	kHz T) analyzer - Swept 50 Ω	SA AC	ous NVN	IT 2-DH5			missio	ep 100.0 r N	ms (1001 pt
G Keysight Sp R L	100	kHz T) analyzer - Swept 50 Ω	sa ac 0000 GHz		IT 2-DH5		OMHZ EI	missio	ep 100.0 r N	ns (1001 pt
G Keysight Sp R L	ectrum A RF req 1	kHz T) 50 Ω 13.26500	sa ac 0000 GHz I	DUS NVN	IT 2-DH5 ISE:PULSE Trig: Free Run			missio	ep 100.0 r n 02:03	ms (1001 pt 46 PMNov 08, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N
Keysight Sp RL enter F	ectrum A RF req 1 Ref	kHz T) analyzer - Swept 50 Ω	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ms (1001 pt
Keysight Sp RL enter F	ectrum A RF req 1 Ref	kHz T) Δnałyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::46 PM Nov 08, 20 TRACE 1 2 3 4: TYPE M WWWW DET P NN NI 480 2 GH
Keysight Sp RL enter F	ectrum A RF req 1 Ref	kHz T) Δnałyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::46 PM Nov 08, 20 TRACE 1 2 3 4: TYPE M WWWW DET P NN NI 480 2 GH
Keysight Sp RL enter F	ectrum A RF req 1 Ref	kHz T) Δnałyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::46 PM Nov 08, 20 TRACE 1 2 3 4: TYPE M WWWW DET P NN NI 480 2 GH
G RL F RL F F CodB/div S F S S F 10.0 S F	ectrum A RF req 1 Ref	kHz T) Δnałyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::46 PM Nov 08, 20 TRACE 1 2 3 4: TYPE M WWWW DET P NN NI 480 2 GH
Keysight Sp RL enter F 0 0.00 0.00 0.00 0.00 0.00	ectrum A RF req 1 Ref	kHz T) Δnałyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::16 PM NOV 08, 20 TRACE 1 2 3 4 TYPE M WWWW DET [P N N N] 480 2 GH 4.168 dBi
Keysight Sp RL enter F 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ectrum A RF req 1 Ref	kHz T) Δnałyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run			missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::16 PM NOV 08, 20 TRACE 1 2 3 4 TYPE M WWWW DET [P N N N] 480 2 GH 4.168 dBi
Keysight Sp RL enter F 0 dB/div 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ectrum A RF req 1 Ref	kHz T) nalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run Atten: 30 dB	AL	IGN AUTO Avg Type: Li Avg Hold: 10	missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::16 PM NOV 08, 20 TRACE 1 2 3 4 TYPE M WWWW DET [P N N N] 480 2 GH 4.168 dBi
Keysight Sp RL enter F 0 dB/div 9 g 0.00	ectrum A RF req 1 Ref	kHz T) nalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run Atten: 30 dB	AL		missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::16 PM NOV 08, 20 TRACE 1 2 3 4 TYPE M WWWW DET [P N N N] 480 2 GH 4.168 dBi
Keysight Sp RL enter F	ectrum A RF req 1 Ref	kHz T) nalyzer - Swept 50 Ω 13.26500 Offset 0.5 d	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run Atten: 30 dB	AL	IGN AUTO Avg Type: Li Avg Hold: 10	missio	p 100.0 r n 02:03 Mkr1 2.	ns (1001 pt ::16 PM NOV 08, 20 TRACE 1 2 3 4 TYPE M WWWW DET [P N N N] 480 2 GH 4.168 dBi
Keysight Sp RL enter F 0 dB/div	ectrum A RF Ref Ref	KHz T) snalyzer - Swept [50 Ω] 3.26500 Offset 0.5 cf 20.00 dE 1 1 - - - - - - - - - - - - -	sa AC 0000 GHz I B		IT 2-DH5 ISE:PULSE Trig: Free Run Atten: 30 dB	AL	IGN AUTO Avg Type: Li Avg Hold: 10	missio	100.0 r n 02.03 Mkr1 2. 	ns (1001 pt
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Tx. Spurious NVNT 2-DH5 2480MHz Ref

Shenzhen STS Test Services Co., Ltd.



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Keysight Spectru R L	um Analyzer - Swept S RF 50 Ω A	A C	- crave				02.07	
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Tx. Spurious NVNT 3-DH5 2402MHz Ref



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Keysight Spectrum Analyz							
		SENS	SE:PULSE	ALIGN AUTO Avg Type: L	og-Pwr	02:09:0 T	1 PM Nov 08, 20 RACE 1 2 3 4 5
enter Freq 2.44	1000000 GHZ	PNO: Wide	Trig: Free Run	Avg Hold: 1	00/100		TYPE M WWW
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Tx. Spurious NVNT 3-DH5 2441MHz Ref



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Tx. Spurious NVNT 3-DH5 2480MHz Ref



APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * * END OF THE REPORT * * * * *



Shenzhen STS Test Services Co., Ltd.