

# **RADIO TEST REPORT**

S T S

## Report No.:STS2208128W02

Issued for

Shenzhen Huion Trend Technology Co., Ltd.

Huion Science and Technology Park, Keji 1st Road, Bao'an District, Shenzhen, China.

Product Name:	Keydial mini	
Brand Name:		
Model Name:	K20	
Series Model:	K10, K30, K40, K50, K60, K70, K80, K90, HB186S	
FCC ID:	2A8IG-T223	
Test Standard:	FCC Part 15.247	

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APPROV

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## **TEST RESULT CERTIFICATION**

Applicant's Name	Shenzhen Huion Trend Technology Co., Ltd.
Address	Huion Science and Technology Park, Keji 1st Road, Bao'an District, Shenzhen, China.
Manufacturer's Name	Shenzhen Huion Trend Technology Co., Ltd.
Address	Huion Science and Technology Park, Keji 1st Road, Bao'an District, Shenzhen, China.
Product Description	
Product Name:	Keydial mini
Brand Name	
Model Name	K20
Series Model	K10, K30, K40, K50, K60, K70, K80, K90, HB186S
Test Standards	FCC Part15.247
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 requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....

Test Result:	Pass
Date of Issue:	01 Sept. 2022
Date (s) of performance of tests:	26 Aug. 2022 ~ 01 Sept. 2022
Date of receipt of test item:	26 Aug. 2022

Testing Engineer

(Chris Chen)

Technical Manager

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(Sean she)

APPROVAL 6

Authorized Signatory :

(Bovey Yang)



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#### **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	01 Sept. 2022	STS2208128W02	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				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	Output Power	PASS		
15.209	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS		
15.247 (e)	Power Spectral Density	PASS		
15.205	Restricted bands of operation	PASS		
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

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

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

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#### 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



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Keydial mini			
Trade Name				
Model Name	K20			
Series Model	K10, K30, K40, K50	, K60, K70, K80, K90, HB186S		
Model Difference	Only different in mo	del name.		
Product Description	The EUT is a Keydial miniOperation Frequency:2402~2480 MHzModulation Type:GFSKRadio Technology:BLEBluetooth Configuration:LE(Support 1M PHY, 2M PHY)Number Of Channel:40Antenna Designation:Please refer to the Note 3.Antenna Gain (dBi)1.34dBi			
Channel List	Please refer to the N	Note 2.		
Rating	Input: DC 5V/500m/	4		
Battery	Rated Voltage: 3.7V Charge Limit Voltage: 4.3V Capacity: 1200mAh			
Hardware version number	Rev.1.0			
Software version number	20220610			
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.





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	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.

#### Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1		K20	РСВ	N/A	1.34dBi	BLE ANT

Note: 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.







#### 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2M PHY /GFSK
Mode 5	TX CH19(2440MHz)	2M PHY /GFSK
Mode 6	TX CH39(2480MHz)	2M PHY /GFSK

Note:

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

(2) We have be tested for all avaiable 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 radited and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 7 : Keeping BT TX

#### 2.3 TEST SOFTWARE AND POWER LEVEL

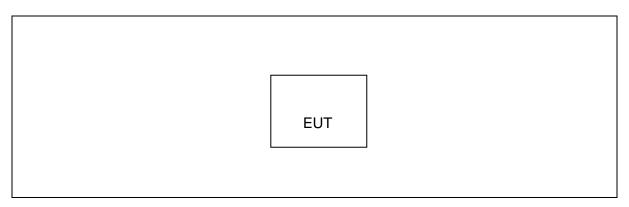
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type Mode Or Modulation type ANT Gain(dBi		ANT Gain(dBi)	Power Class	Software For Testing
BLE(With	BLE_1M PHY	GFSK	1.34	3.9	EMI Tool
2M PHY)	BLE_2M PHY	GFSK	1.34	3.9	

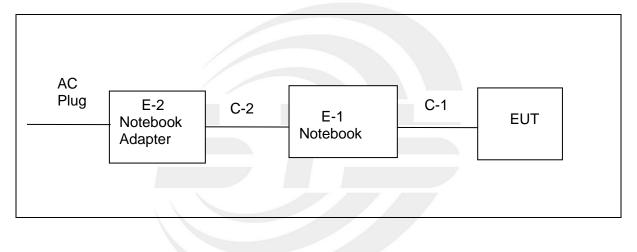


## 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

#### Radiated Spurious Emission Test



#### **Conducted Emission Test**







#### 2.5 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.

	Necessary accessories							
Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note			
C-1	Type-c Cable	N/A	N/A	160cm	NO			

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook Adapter	LENOVO	ADLX45DLC3A	N/A	N/A
E-1	Notebook	LENOVO	ThinkPad E470	N/A	N/A
C-2	USB Cable	N/A	N/A	150cm	NO

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>C</sup>Length<sub>2</sub> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



## 2.6 EQUIPMENTS LIST

#### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29		
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29		
Active loop Antenna	ZHINAN	ZN30900C	16035	2021.04.11	2023.04.10		
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11		
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11		
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07		
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29		
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27		
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08		
Turn table	EM	SC100_1	60531	N/A	N/A		
Antenna mast	EM	SC100	N/A	N/A	N/A		
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)					

#### Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
LISN	R&S	ENV216	101242	2021.09.30	2022.09.29
LISN	EMCO	3810/2NM	23625	2021.09.30	2022.09.29
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

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#### **RF** Connected Test

Kind of Equipment	Manufacturer	Type No. Serial No.		Last calibration	Calibrated until	
Power Sensor		U2021XA MY555	MY55520005	2021.09.30	2022.09.29	
	Kovoight		MY55520006	2021.09.30	2022.09.29	
	Keysight		MY56120038	2021.09.30	2022.09.29	
			MY56280002	2021.09.30	2022.09.29	
Signal Analyzer	Agilent	N9020A	MY51110105	2022.03.01	2023.02.28	
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				



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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 Emission limit (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



#### 3.2 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

#### 3.3 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.

#### 3.4 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.



3.5 TEST RESULTS

Temperature:	26.8(C)	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7		

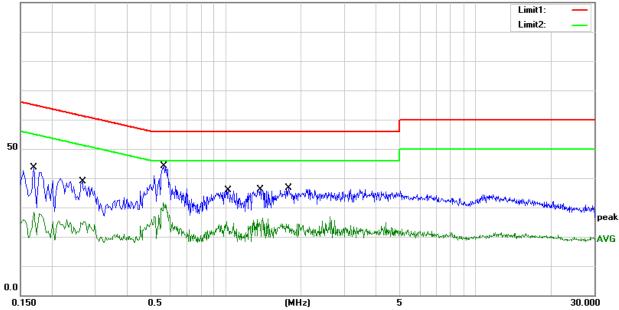
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1700	23.30	20.33	43.63	64.96	-21.33	QP
2	0.1700	8.15	20.33	28.48	54.96	-26.48	AVG
3	0.2660	18.17	20.60	38.77	61.24	-22.47	QP
4	0.2660	4.48	20.60	25.08	51.24	-26.16	AVG
5	0.5660	23.74	20.48	44.22	56.00	-11.78	QP
6	0.5660	11.06	20.48	31.54	46.00	-14.46	AVG
7	1.0260	15.61	20.30	35.91	56.00	-20.09	QP
8	1.0260	4.77	20.30	25.07	46.00	-20.93	AVG
9	1.3740	15.83	20.30	36.13	56.00	-19.87	QP
10	1.3740	6.08	20.30	26.38	46.00	-19.62	AVG
11	1.7900	16.40	20.30	36.70	56.00	-19.30	QP
12	1.7900	4.09	20.30	24.39	46.00	-21.61	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





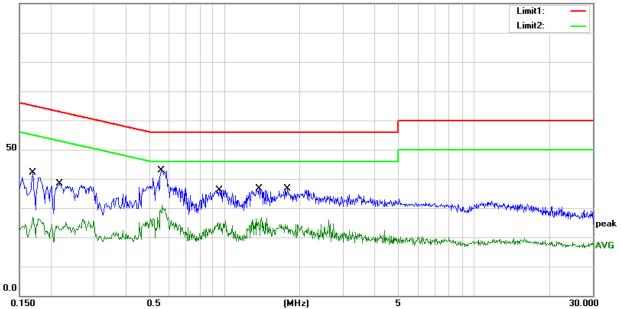
Temperature:	26.8(C)	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 7		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1700	21.80	20.33	42.13	64.96	-22.83	QP
2	0.1700	6.65	20.33	26.98	54.96	-27.98	AVG
3	0.2180	17.92	20.39	38.31	62.89	-24.58	QP
4	0.2180	5.69	20.39	26.08	52.89	-26.81	AVG
5	0.5580	22.48	20.48	42.96	56.00	-13.04	QP
6	0.5580	10.56	20.48	31.04	46.00	-14.96	AVG
7	0.9500	15.91	20.31	36.22	56.00	-19.78	QP
8	0.9500	5.26	20.31	25.57	46.00	-20.43	AVG
9	1.3740	16.33	20.30	36.63	56.00	-19.37	QP
10	1.3740	6.58	20.30	26.88	46.00	-19.12	AVG
11	1.7900	16.40	20.30	36.70	56.00	-19.30	QP
12	1.7900	4.09	20.30	24.39	46.00	-21.61	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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#### 4. RADIATED EMISSION MEASUREMENT

#### 4.1 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) limit in the table and according to ANSI C63.10-2013 below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-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 (Above 1000MHz)

	(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

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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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		
Stort/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz		
	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

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Receiver Parameter	Setting		
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		

#### 4.2 TEST PROCEDURE

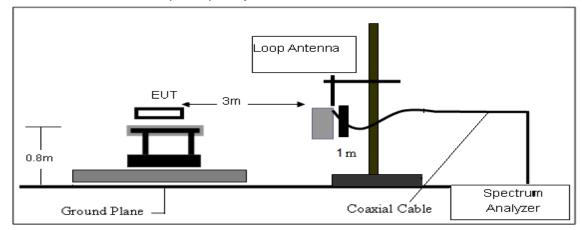
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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.

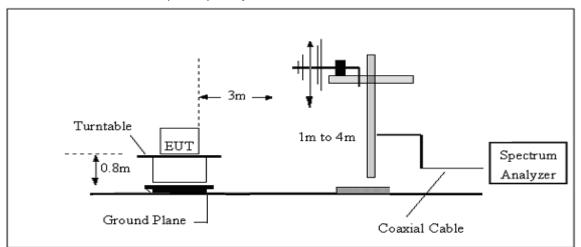


#### 4.3 TEST SETUP

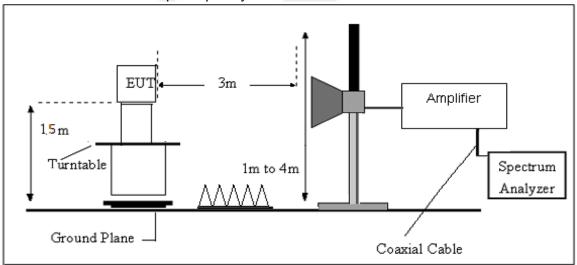
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



## 4.4 EUT OPERATING CONDITIONS Please refer to section 3.4 of this report.



#### 4.5 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 - AGWhere 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





#### 4.6 TEST RESULTS

#### (Between 9KHz - 30 MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.7V	Polarization:	
Test Mode:	TX Mode		

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

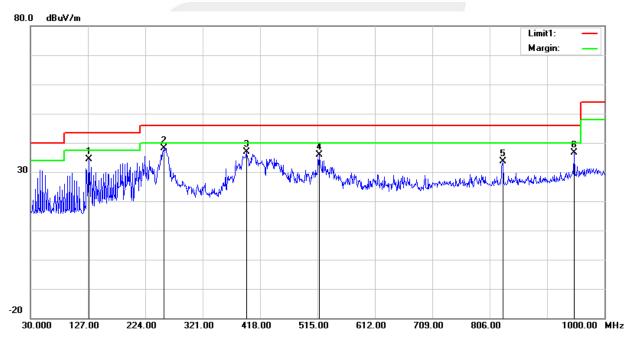
1M	PHY
----	-----

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 3 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	128.9400	52.68	-18.26	34.42	43.50	-9.08	peak
2	256.0100	53.46	-15.24	38.22	46.00	-7.78	peak
3	394.7200	48.22	-11.38	36.84	46.00	-9.16	peak
4	517.9100	43.83	-7.85	35.98	46.00	-10.02	peak
5	828.3100	34.46	-0.95	33.51	46.00	-12.49	peak
6	948.5900	35.11	1.56	36.67	46.00	-9.33	peak

#### Remark:

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





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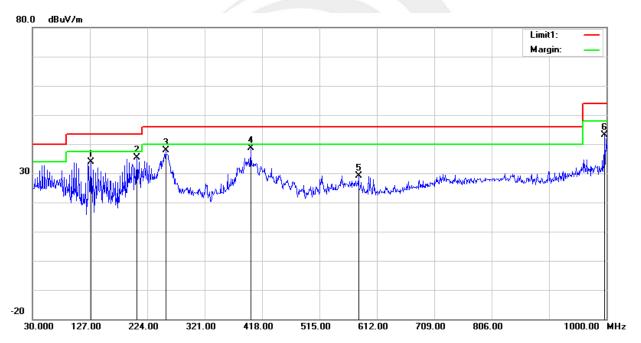
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode 1/2/3 (Mode 3 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	128.9400	52.07	-18.26	33.81	43.50	-9.69	peak
2	206.5400	55.99	-20.63	35.36	43.50	-8.14	peak
3	255.0400	53.14	-15.35	37.79	46.00	-8.21	peak
4	398.6000	49.74	-11.20	38.54	46.00	-7.46	peak
5	580.9600	34.89	-5.76	29.13	46.00	-16.87	peak
6	997.0900	41.19	2.04	43.23	54.00	-10.77	peak

Remark:

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

2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





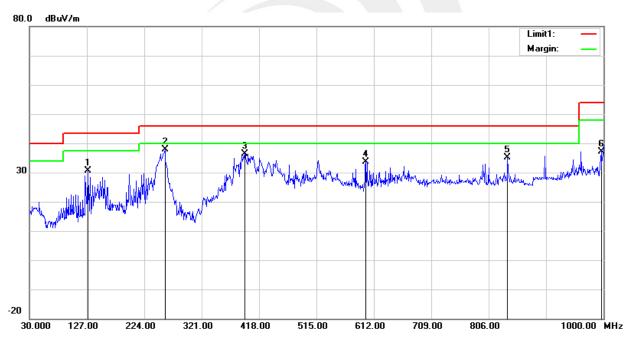
#### 2M PHY

Temperature:	23.1(C)	Relative Humidity:	60%RH	
Test Voltage:	DC 3.7V	Phase:	Horizontal	
Test Mode:	Mode 4/5/6 (Mode 6 worst mo	ode)		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	128.9400	48.97	-18.26	30.71	43.50	-12.79	peak
2	258.9200	52.70	-14.90	37.80	46.00	-8.20	peak
3	393.7500	47.91	-11.42	36.49	46.00	-9.51	peak
4	598.4200	39.42	-5.85	33.57	46.00	-12.43	peak
5	838.0100	35.59	-0.42	35.17	46.00	-10.83	peak
6	996.1200	35.04	2.04	37.08	54.00	-16.92	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 3.7V	Phase:	Vertical
Test Mode:	Mode 4/5/6 (Mode 6 worst mo	ode)	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	46.49	-14.80	31.69	40.00	-8.31	peak
2	258.9200	47.04	-14.90	32.14	46.00	-13.86	peak
3	386.9600	48.17	-11.79	36.38	46.00	-9.62	peak
4	574.1700	41.94	-5.67	36.27	46.00	-9.73	peak
5	903.0000	35.65	-0.37	35.28	46.00	-10.72	peak
6	997.0900	36.74	2.04	38.78	54.00	-15.22	peak

Remark:

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



Shenzhen STS Test Services Co., Ltd.



#### (1GHz-25GHz) Spurious emission Requirements

1M PHY GFSK

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	nannel (GFSK/2	2402 MHz)				
3264.64	61.60	44.70	6.70	28.20	-9.80	51.80	74.00	-22.20	PK	Vertical
3264.64	50.07	44.70	6.70	28.20	-9.80	40.27	54.00	-13.73	AV	Vertical
3264.81	61.03	44.70	6.70	28.20	-9.80	51.23	74.00	-22.77	PK	Horizontal
3264.81	50.76	44.70	6.70	28.20	-9.80	40.96	54.00	-13.04	AV	Horizontal
4804.29	59.33	44.20	9.04	31.60	-3.56	55.77	74.00	-18.23	PK	Vertical
4804.29	50.29	44.20	9.04	31.60	-3.56	46.73	54.00	-7.27	AV	Vertical
4804.45	59.03	44.20	9.04	31.60	-3.56	55.47	74.00	-18.53	PK	Horizontal
4804.45	49.64	44.20	9.04	31.60	-3.56	46.08	54.00	-7.92	AV	Horizontal
5359.60	48.69	44.20	9.86	32.00	-2.34	46.35	74.00	-27.65	PK	Vertical
5359.60	39.05	44.20	9.86	32.00	-2.34	36.71	54.00	-17.29	AV	Vertical
5359.68	48.52	44.20	9.86	32.00	-2.34	46.18	74.00	-27.82	PK	Horizontal
5359.68	38.05	44.20	9.86	32.00	-2.34	35.71	54.00	-18.29	AV	Horizontal
7205.76	54.74	43.50	11.40	35.50	3.40	58.14	74.00	-15.86	PK	Vertical
7205.76	43.51	43.50	11.40	35.50	3.40	46.91	54.00	-7.09	AV	Vertical
7205.82	54.74	43.50	11.40	35.50	3.40	58.14	74.00	-15.86	PK	Horizontal
7205.82	43.61	43.50	11.40	35.50	3.40	47.01	54.00	-6.99	AV	Horizontal
			l'	Middle C	Channel (GFSK	/2440 MHz)				•
3263.16	61.51	44.70	6.70	28.20	-9.80	51.71	74.00	-22.29	PK	Vertical
3263.16	50.47	44.70	6.70	28.20	-9.80	40.67	54.00	-13.33	AV	Vertical
3263.05	60.80	44.70	6.70	28.20	-9.80	51.00	74.00	-23.00	PK	Horizontal
3263.05	50.40	44.70	6.70	28.20	-9.80	40.60	54.00	-13.40	AV	Horizontal
4880.00	58.78	44.20	9.04	31.60	-3.56	55.22	74.00	-18.78	PK	Vertical
4880.00	49.91	44.20	9.04	31.60	-3.56	46.35	54.00	-7.65	AV	Vertical
4879.90	59.56	44.20	9.04	31.60	-3.56	56.00	74.00	-18.00	PK	Horizontal
4879.90	50.07	44.20	9.04	31.60	-3.56	46.51	54.00	-7.49	AV	Horizontal
5357.06	49.40	44.20	9.86	32.00	-2.34	47.06	74.00	-26.94	PK	Vertical
5357.06	39.76	44.20	9.86	32.00	-2.34	37.42	54.00	-16.58	AV	Vertical
5357.39	48.43	44.20	9.86	32.00	-2.34	46.09	74.00	-27.91	PK	Horizontal
5357.09	38.42	44.20	9.86	32.00	-2.34	36.08	54.00	-17.92	AV	Horizontal
7320.85	54.19	43.50	11.40	35.50	3.40	57.59	74.00	-16.41	PK	Vertical
7320.85	43.58	43.50	11.40	35.50	3.40	46.98	54.00	-7.02	AV	Vertical
7320.41	53.71	43.50	11.40	35.50	3.40	57.11	74.00	-16.89	PK	Horizontal
7320.41	44.20	43.50	11.40	35.50	3.40	47.60	54.00	-6.40	AV	Horizontal

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				High Char	nnel (GFSK/	2480 MHz)				
3264.87	60.89	44.70	6.70	28.20	-9.80	51.09	74.00	-22.91	PK	Vertical
3264.87	50.96	44.70	6.70	28.20	-9.80	41.16	54.00	-12.84	AV	Vertical
3264.79	61.99	44.70	6.70	28.20	-9.80	52.19	74.00	-21.81	PK	Horizontal
3264.79	50.41	44.70	6.70	28.20	-9.80	40.61	54.00	-13.39	AV	Horizontal
4960.37	59.49	44.20	9.04	31.60	-3.56	55.93	74.00	-18.07	PK	Vertical
4960.37	49.66	44.20	9.04	31.60	-3.56	46.10	54.00	-7.90	AV	Vertical
4960.54	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4960.54	50.25	44.20	9.04	31.60	-3.56	46.69	54.00	-7.31	AV	Horizontal
5359.76	48.17	44.20	9.86	32.00	-2.34	45.83	74.00	-28.17	PK	Vertical
5359.76	40.16	44.20	9.86	32.00	-2.34	37.81	54.00	-16.19	AV	Vertical
5359.84	47.64	44.20	9.86	32.00	-2.34	45.30	74.00	-28.70	PK	Horizontal
5359.84	39.34	44.20	9.86	32.00	-2.34	37.00	54.00	-17.00	AV	Horizontal
7439.84	54.27	43.50	11.40	35.50	3.40	57.67	74.00	-16.33	PK	Vertical
7439.84	44.25	43.50	11.40	35.50	3.40	47.65	54.00	-6.35	AV	Vertical
7439.85	53.79	43.50	11.40	35.50	3.40	57.19	74.00	-16.81	PK	Horizontal
7439.85	44.76	43.50	11.40	35.50	3.40	48.16	54.00	-5.84	AV	Horizontal

#### Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor.

2) 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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2M PHY GFSK

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	nannel (GFSK/2	2402 MHz)			• • • •	
3264.82	62.27	44.70	6.70	28.20	-9.80	52.47	74.00	-21.53	PK	Vertical
3264.82	51.31	44.70	6.70	28.20	-9.80	41.51	54.00	-12.49	AV	Vertical
3264.82	62.24	44.70	6.70	28.20	-9.80	52.44	74.00	-21.56	PK	Horizontal
3264.82	49.94	44.70	6.70	28.20	-9.80	40.14	54.00	-13.86	AV	Horizontal
4804.42	58.45	44.20	9.04	31.60	-3.56	54.89	74.00	-19.11	PK	Vertical
4804.42	49.18	44.20	9.04	31.60	-3.56	45.62	54.00	-8.38	AV	Vertical
4804.52	58.92	44.20	9.04	31.60	-3.56	55.36	74.00	-18.64	PK	Horizontal
4804.52	50.30	44.20	9.04	31.60	-3.56	46.74	54.00	-7.26	AV	Horizontal
5359.63	49.43	44.20	9.86	32.00	-2.34	47.09	74.00	-26.91	PK	Vertical
5359.63	40.11	44.20	9.86	32.00	-2.34	37.76	54.00	-16.24	AV	Vertical
5359.74	48.04	44.20	9.86	32.00	-2.34	45.69	74.00	-28.31	PK	Horizontal
5359.74	39.38	44.20	9.86	32.00	-2.34	37.04	54.00	-16.96	AV	Horizontal
7205.92	53.96	43.50	11.40	35.50	3.40	57.36	74.00	-16.64	PK	Vertical
7205.92	43.64	43.50	11.40	35.50	3.40	47.04	54.00	-6.96	AV	Vertical
7205.80	53.61	43.50	11.40	35.50	3.40	57.01	74.00	-16.99	PK	Horizontal
7205.80	43.87	43.50	11.40	35.50	3.40	47.27	54.00	-6.73	AV	Horizontal
	•	•		Middle C	Channel (GFSK	/2440 MHz)		•	•	
3262.98	61.24	44.70	6.70	28.20	-9.80	51.44	74.00	-22.56	PK	Vertical
3262.98	50.22	44.70	6.70	28.20	-9.80	40.42	54.00	-13.58	AV	Vertical
3263.16	61.02	44.70	6.70	28.20	-9.80	51.22	74.00	-22.78	PK	Horizontal
3263.16	49.91	44.70	6.70	28.20	-9.80	40.11	54.00	-13.89	AV	Horizontal
4879.84	59.53	44.20	9.04	31.60	-3.56	55.97	74.00	-18.03	PK	Vertical
4879.84	50.08	44.20	9.04	31.60	-3.56	46.52	54.00	-7.48	AV	Vertical
4879.98	59.34	44.20	9.04	31.60	-3.56	55.78	74.00	-18.22	PK	Horizontal
4879.98	50.28	44.20	9.04	31.60	-3.56	46.72	54.00	-7.28	AV	Horizontal
5357.14	48.66	44.20	9.86	32.00	-2.34	46.32	74.00	-27.68	PK	Vertical
5357.14	39.96	44.20	9.86	32.00	-2.34	37.62	54.00	-16.38	AV	Vertical
5357.39	47.91	44.20	9.86	32.00	-2.34	45.56	74.00	-28.44	PK	Horizontal
5357.01	38.10	44.20	9.86	32.00	-2.34	35.76	54.00	-18.24	AV	Horizontal
7320.85	54.36	43.50	11.40	35.50	3.40	57.76	74.00	-16.24	PK	Vertical
7320.85	44.63	43.50	11.40	35.50	3.40	48.03	54.00	-5.97	AV	Vertical
7320.35	54.21	43.50	11.40	35.50	3.40	57.61	74.00	-16.39	PK	Horizontal
7320.35	44.78	43.50	11.40	35.50	3.40	48.18	54.00	-5.82	AV	Horizontal



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				High Char	nnel (GFSK/	2480 MHz)				
3264.64	61.92	44.70	6.70	28.20	-9.80	52.12	74.00	-21.88	PK	Vertical
3264.64	51.50	44.70	6.70	28.20	-9.80	41.70	54.00	-12.30	AV	Vertical
3264.73	61.99	44.70	6.70	28.20	-9.80	52.19	74.00	-21.81	PK	Horizontal
3264.73	50.50	44.70	6.70	28.20	-9.80	40.70	54.00	-13.30	AV	Horizontal
4960.30	59.18	44.20	9.04	31.60	-3.56	55.62	74.00	-18.38	PK	Vertical
4960.30	49.65	44.20	9.04	31.60	-3.56	46.09	54.00	-7.91	AV	Vertical
4960.45	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4960.45	50.04	44.20	9.04	31.60	-3.56	46.48	54.00	-7.52	AV	Horizontal
5359.67	48.06	44.20	9.86	32.00	-2.34	45.71	74.00	-28.29	PK	Vertical
5359.67	40.19	44.20	9.86	32.00	-2.34	37.85	54.00	-16.15	AV	Vertical
5359.60	48.25	44.20	9.86	32.00	-2.34	45.91	74.00	-28.09	PK	Horizontal
5359.60	38.49	44.20	9.86	32.00	-2.34	36.15	54.00	-17.85	AV	Horizontal
7439.81	54.50	43.50	11.40	35.50	3.40	57.90	74.00	-16.10	PK	Vertical
7439.81	44.48	43.50	11.40	35.50	3.40	47.88	54.00	-6.12	AV	Vertical
7439.93	54.77	43.50	11.40	35.50	3.40	58.17	74.00	-15.83	PK	Horizontal
7439.93	44.27	43.50	11.40	35.50	3.40	47.67	54.00	-6.33	AV	Horizontal

#### Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor.

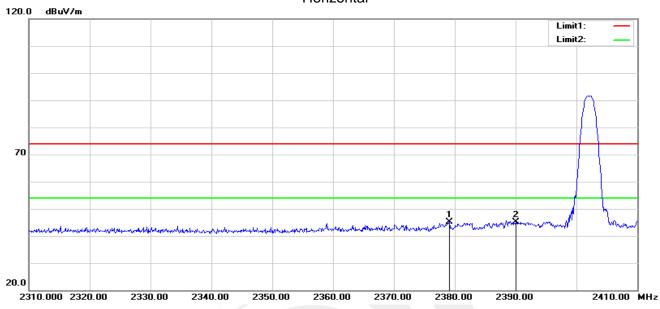
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



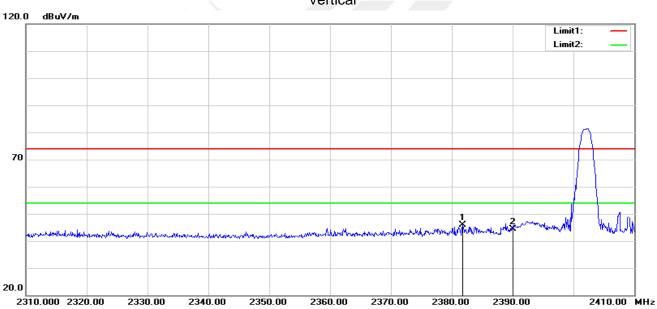


## 4.6 TEST RESULTS (Restricted Bands Requirements)





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2379.100	40.92	4.18	45.10	74.00	-28.90	peak
2	2390.000	40.81	4.34	45.15	74.00	-28.85	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.800	41.70	4.22	45.92	74.00	-28.08	peak
2	2390.000	40.08	4.34	44.42	74.00	-29.58	peak

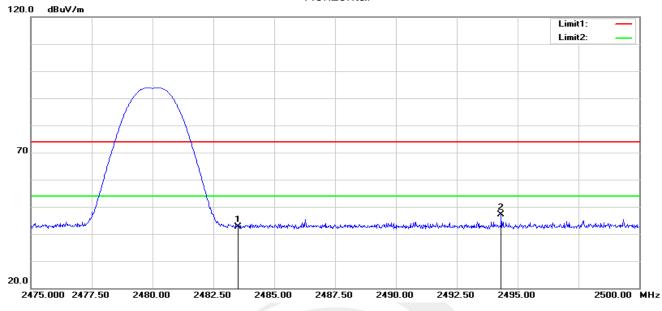
Vertical



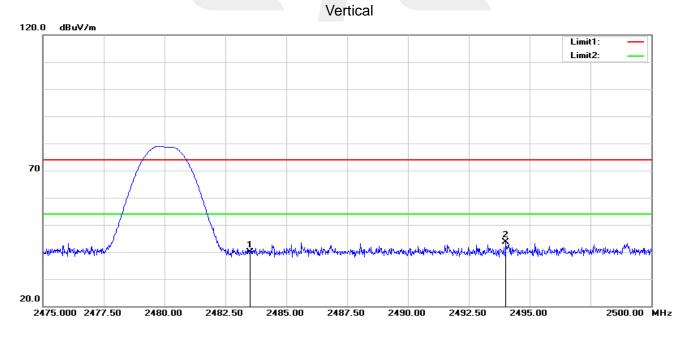
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#### **GFSK-High** Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.96	4.60	42.56	74.00	-31.44	peak
2	2494.325	42.61	4.63	47.24	74.00	-26.76	peak

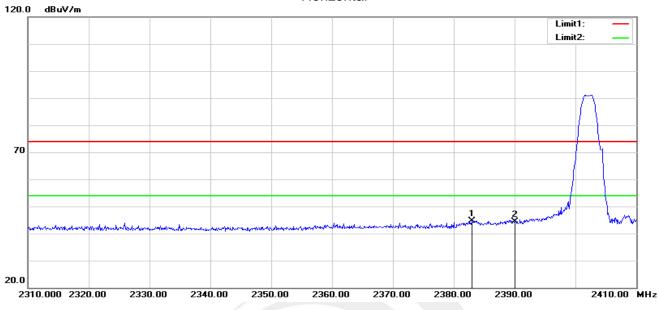


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	35.20	4.60	39.80	74.00	-34.20	peak
2	2494.025	39.06	4.63	43.69	74.00	-30.31	peak

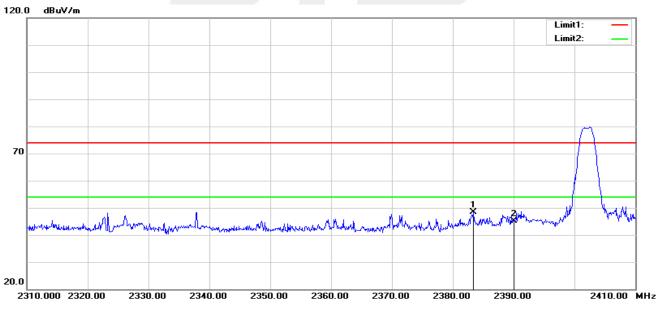


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#### 2M PHY GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.000	40.45	4.23	44.68	74.00	-29.32	peak
2	2390.000	40.07	4.34	44.41	74.00	-29.59	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.400	44.15	4.24	48.39	74.00	-25.61	peak
2	2390.000	40.80	4.34	45.14	74.00	-28.86	peak

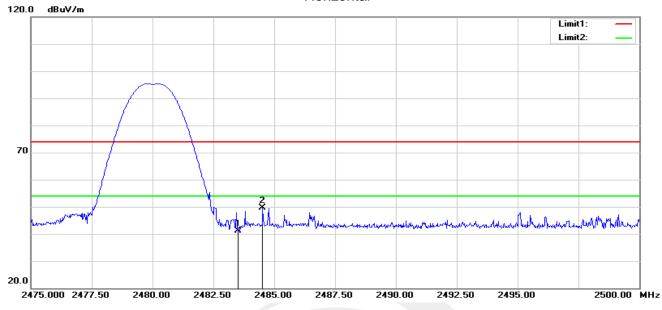
Vertical



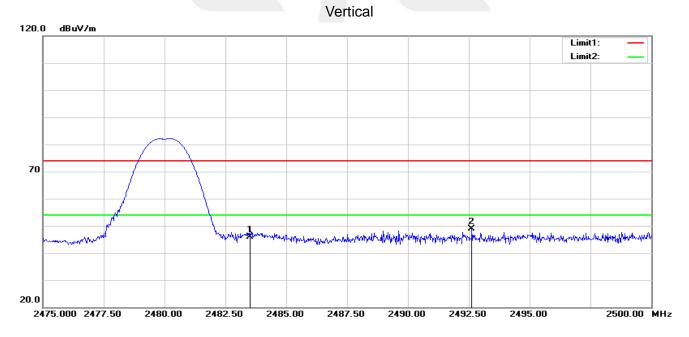
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#### **GFSK-High** Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.45	4.60	41.05	74.00	-32.95	peak
2	2484.525	45.03	4.61	49.64	74.00	-24.36	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	41.28	4.60	45.88	74.00	-28.12	peak
2	2492.625	44.27	4.63	48.90	74.00	-25.10	peak



# 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 5.1 LIMIT

According to FCC section 15.247(d), 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.

#### 5.2 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
Spectrum Parameter           Detector	Setting Peak
Detector	
	Peak
Detector	Peak Lower Band Edge: 2300 – 2407 MHz

#### 5.3 TEST SETUP



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

5.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



# 6. POWER SPECTRAL DENSITY TEST

### 6.1 LIMIT

FCC Part 15.247,Subpart C								
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS				

# 6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz  $\geq$  RBW  $\geq$  3 kHz.
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

# 6.3 TEST SETUP

Specturm Analyzer		EUT
----------------------	--	-----

6.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



# 7. BANDWIDTH TEST

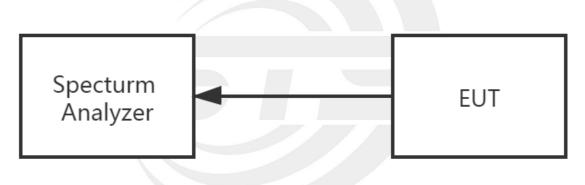
7.1 LIMIT

FCC Part 15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

# 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

# 7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

# 7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



# 8. PEAK OUTPUT POWER TEST

### 8.1 LIMIT

FCC Part 15.247,Subpart C						
Section	Test Item	Frequency Range (MHz)	Result			
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS		

#### 8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

 $RBW \ge DTS$  bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

 $\tilde{a}$ ) Set the RBW  $\geq$  DTS bandwidth.

b) Set VBW  $\geq$  [3 × RBW].

c) Set span  $\geq$  [3 × RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW  $\geq$  [3  $\times$  RBW].

c) Set the span  $\geq$  [1.5 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

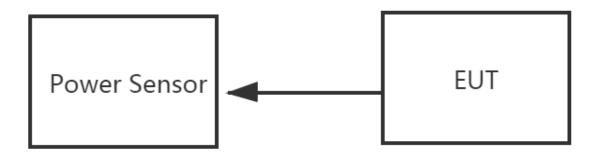
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

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 DTS bandwidth and shall use a fast-responding diode detector.







**8.4 EUT OPERATION CONDITIONS** Please refer to section 3.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.





# 9. ANTENNA REQUIREMENT

### 9.1 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.

## 9.2 EUT ANTENNA

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



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APPENDIX 1-TEST DATA

# 1. Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	100	0	0.1
NVNT	BLE 1M	2440	100	0	0.1
NVNT	BLE 1M	2480	100	0	0.1
NVNT	BLE 2M	2402	100	0	0.1
NVNT	BLE 2M	2440	100	0	0.1
NVNT	BLE 2M	2480	100	0	0.1



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		Cycle N	VNT BLE	is 1M 24021	MHz		
Keysight Spectrum Analyzer - Swept SA           R L         RF         50 Ω         AC		SENS	E:PULSE	ALIGN AUTO			00 PM Aug 29, 2
enter Freq 2.4020000	00 GHz	NO: Fast 🔸	Trig: Free Run #Atten: 30 dB		: Log-Pwr		TRACE 1 2 3 4 TYPE WWWW DET P N N N
Ref Offset 0.5 dB 0 dB/div Ref 20.50 dBn							l 50.00 n -0.78 dB
0.5							
500			↓ <sup>1</sup>				
3.50							
9.5							
9.5							
39.5							
19.5							
i9.5							
enter 2.402000000 GHz es BW 1.0 MHz		#VBW	3.0 MHz		Sweer	o 100.0 ms	Span 0 I s (10001 p
	X	Y		FUNCTION WIDTH		FUNCTION VALUE	· ·
1 N 1 t 2	50.00 ms	-0.78 d	Bm				
3							
4 5							
5 6							
7 8							
9							
1							
			III	1 1			•
			III	STATUS			•
	Duty (	Cvcle N'			ЛНz		4
G	-	Cycle N		status 1M 2440	ИНz		
G , Keysight Spectrum Analyzer - Swept SA RL RF S0 Ω AC				1M 2440		04:08:	:32 PM Aug 29, 20
G , Keysight Spectrum Analyzer - Swept SA RL RF S0 Ω AC	00 GHz	SENS NO: Fast ↔	VNT BLE	1M 2440	MHZ :: Log-Pwr	04:08:	32 PM Aug 29, 20
RL RF 50Ω ACC RL RF 50Ω ACC enter Freq 2.44000000	00 GHz IFO	SENS	VNT BLE	1M 2440			32 PM Aug 29, 20 TRACE 1 2 3 4 TYPE WWWW DET P N N N
G	00 GHz	SENS NO: Fast ↔	VNT BLE	1M 2440		Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P N N N 50.00 n
Ref Offset 0.5 dB Ref Offset 0.5 dB Ref 0.6 dB/div	00 GHz	SENS NO: Fast ↔	VNT BLE	1M 2440		Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P N N N 50.00 n
G         Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.44000000         Ref Offset 0.5 dB         Ref 30.00 dBm           0 dB/div         Ref 30.00 dBm         Ref 30.00 dBm	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P N N N 50.00 n
Rc         Ref         50 Ω         AC           enter Freq         2.44000000         Ref         0 dB/div         Ref         30.00 dBn           0 dB/div         Ref         30.00 dBn         0 dB/div         Ref         30.00 dBn	00 GHz	SENS NO: Fast ↔	VNT BLE	1M 2440		Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P N N N 50.00 n
G RL RF 50 Ω AC enter Freq 2.44000000 Ref Offset 0.5 dB 0 dB/div Ref 30.00 dBn 0 0 000	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P N N N 50.00 n
G RL RF 50 Ω AC enter Freq 2.44000000 Ref Offset 0.5 dB 0 dB/div Ref 30.00 dBm 0 00 0.00	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 21 TRACE 1 2 3 4 TYPE DET P N N N
G           Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.44000000           Ref Offset 0.5 dB           0 dB/div         Ref 30.00 dBn           20 0         0         0           0.00         0         0         0           0.00         0         0         0	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 21 TRACE 1 2 3 4 TYPE DET P N N N
Rc         RF         50 Ω         AC           enter Freq 2.44000000         Ref Offset 0.5 dB         B         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <td>00 GHz</td> <td>SENS NO: Fast ↔</td> <td>VNT BLE E:PULSE Trig: Free Run Atten: 40 dB</td> <td>1M 2440</td> <td></td> <td>Mkr1</td> <td>32 PM Aug 29, 21 TRACE 1 2 3 4 TYPE DET P N N N</td>	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 21 TRACE 1 2 3 4 TYPE DET P N N N
Reysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44000000 Ref Offset 0.5 dB	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 21 TRACE 12.3.4 TYPE WWWW DET P N N N 50.00 m -0.48 dB
G           Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.44000000           Ref Offset 0.5 dB           D dB/div         Ref 30.00 dBm           Col         Col         Col           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         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         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         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	00 GHz	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PM Aug 29, 21 TRACE 1 2 3 4 TYPE DET P N N N
G           Keysight Spectrum Analyzer - Swept SA           RL         RF         So @ Ac           enter Freq 2.44000000           Ref Offset 0.5 dB           0 dB/div         Ref Offset 0.5 dB           0 dB/div         Ref 30.00 dBm           20 0         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0	00 GHz Pirite	SENS NO: Fast ↔	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440		Mkr1	32 PMAg 29, 21 TRACE 1 2 3 4 TYPE WWWW DET P NNN 50,00 m -0,48 dB
G         Keysight Spectrum Analyzer - Swept SA           RL         RF         S0 Q AG           enter Freq 2.44000000         AG           D dB/div         Ref Offset 0.5 dB           0 dB/div         Ref 30.00 dBn           0 dB/div	00 GHz Pirite	SENS	VNT BLE E:PULSE Trig: Free Run Atten: 40 dB	1M 2440	: Log-Pwr	Mkr1	32 PMAug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P NNN 50.00 n -0.48 dB
G	00 GHz P IF4	SENS NO: Fast Gain:Low	VNT BLE Trig: Free Run Atten: 40 dB	1M 2440	:: Log-Pwr	Mkr1	32 PM Aug 29, 21 TRACE 12 3 4 TYPE WWWW DET P NNN 50.00 n -0.48 dB
G         Keysight Spectrum Analyzer - Swept SA         Ref Offset 0.5 dB         Ref Offset 0.5 dB         Ref Offset 0.5 dB         O dB/div         Colspan="2">O dB/div         O dB/div         Colspan="2">O dB/div         O dB/div         O data         O data         Colspan="2">O data         O data         Colspan="2">O data         O data         Colspan="2">O data         O data         O data         O data	00 GHz Pirite	SENS	VNT BLE Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type	:: Log-Pwr	Mkr1	32 PM Aug 29, 21 TRACE 12 3 4 TYPE WWWW DET P NNN 50.00 n -0.48 dB
RL       Ref Offset 0.5 dB         Ref Offset 0.5 dB         OdB/div       Ref 30.00 dBn         00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00	00 GHz P IF4	SENS NO: Fast Gain:Low	VNT BLE Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type	:: Log-Pwr	Mkr1	32 PM Aug 29, 21 TRACE 12 3 4 TYPE WWWW DET P NNN 50.00 n -0.48 dB
Image: sector of the sector	00 GHz P IF4	SENS NO: Fast Gain:Low	VNT BLE Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type	:: Log-Pwr	Mkr1	32 PM Aug 29, 21 TRACE 12 3 4 TYPE WWWW DET P NNN 50.00 n -0.48 dB
Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.44000000         Ref Offset 0.5 dB         B         D         dB/div         Ref Offset 0.5 dB         B           0 dB/div         Ref Offset 0.5 dB         Ref 0.00 dBn         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D	00 GHz P IF4	SENS NO: Fast Gain:Low	VNT BLE Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type	:: Log-Pwr	Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P NNN 50,00 n -0,48 dB
Rejuint Spectrum Analyzer - Swept SA         Ref Offset 0.5 dB         Ref Offset 0.5 dB         OdB/div         Ref 30.00 dBn         OdB/div         Senter 2.4400000000 GHz         Ref Sal         Image: Sal	00 GHz P IF4	SENS NO: Fast Gain:Low	VNT BLE Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type	:: Log-Pwr	Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P NNN 50,00 n -0,48 dB
Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.44000000         Ref Offset 0.5 dB         B         D         dB/div         Ref Offset 0.5 dB         B           0 dB/div         Ref Offset 0.5 dB         Ref 0.00 dBn         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D	00 GHz P IF4	SENS NO: Fast Gain:Low	VNT BLE Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type	:: Log-Pwr	Mkr1	32 PM Aug 29, 2 TRACE 1 2 3 4 TYPE WWWW DET P NNN 50,00 n -0,48 dB

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Kousight Sportsum Analysis C		Cycle N	VNT BL		240010			
Keysight Spectrum Analyzer - Swe RL RF 50 Ω		SEN	SE:PULSE	AL	IGN AUTO		04:12:4	7 PM Aug 29, 2
nter Freq 2.48000			Trig: Free Ru	un .	Avg Type:	Log-Pwr	т	
		PNO: Fast +++ IFGain:Low	#Atten: 30 dl					DET P N N N
Ref Offset 0.5 dB/div Ref 20.50 (								50.00 n 0.14 dB
g								
1.5			<b></b>					
50								
.5								
.5								
.5								
.5								
1.5								
1.5								
enter 2.480000000 G es BW 1.0 MHz	SHZ	#VBW	V 3.0 MHz			Sweep	100.0 ms	Span 0   (10001 p
R MODE TRC SCL	Х	Y	FUNCT	ON FUNC	TION WIDTH	· · · ·	UNCTION VALUE	· ·
N 1 t	50.00 ms	s 0.14 d	IBm					
L								
3 7 8 9								
			m					•
					STATUS			
	Duty	Cycle N		E 2M	24021	114-7		
Keysight Spectrum Analyzer - Swe		Cycle N			240210			
RL RF 50 Ω	AC	SEN:	SE:PULSE	AL	IGN AUTO		04:15:2	3 PM Aug 29, 2
enter Freq 2.40200	00000 GHz	PNO: Fast +++	Trig: Free Ru	in	Avg Type:	Log-Pwr		RACE 1 2 3 4
								TYPE WWWW
Dof Officiat 0		IFGain:Low	#Atten: 30 dl					DET P NNN
	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div Ref 20.00 d	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div Ref 20.00 (	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div Ref 20.00 ( 9)	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div Ref 20.00 ( 9	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div Ref 20.00 d	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div Ref 20.00 (	5 dB		#Atten: 30 dl				Mkr1	RACE 1 2 3 4 TYPE WWWW DET P NNN 50.00 n 1.10 dB
dB/div         Ref 20.00 (           9	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div         Ref 20.00 (           9         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -	5 dB		#Atten: 30 dl				Mkr1	50.00 n
	5 dB		#Atten: 30 dl				Mkr1	50.00 n
dB/div         Ref 20.00 (           9         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -	5 dB 1Bm 		#Atten: 30 dl				Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (           9         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -           00         -	5 dB 1Bm 	FGain:Low	#Atten: 30 dl			Sweep	Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (g)           9	5 dB dBm 	IFGain:Low	Ø 3.0 MHz		TION W/DTH		Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (           9         -           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         -	5 dB IBm IBm ID ID ID ID ID ID ID ID ID ID	IFGain:Low	Ø 3.0 MHz	3	TION WIDTH		Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (           9         -           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         -	5 dB dBm 	IFGain:Low	Ø 3.0 MHz	3	TION WIDTH		Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (g)           Image: State of the state	5 dB dBm 	IFGain:Low	Ø 3.0 MHz	3	TION WIDTH		Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (g)           Image: State of the state	5 dB dBm 	IFGain:Low	Ø 3.0 MHz	3	TION WIDTH		Mkr1	50.00 n 1.10 dB
Bldiv         Ref 20.00 (           N         1	5 dB dBm 	IFGain:Low	Ø 3.0 MHz	3	TION WDTH		Mkr1	50.00 n 1.10 dB
dB/div Ref 20.00 (	5 dB dBm 	IFGain:Low	Ø 3.0 MHz	3	TION WDTH		Mkr1	50.00 n 1.10 dB
dB/div         Ref 20.00 (           9         -           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	5 dB dBm 	IFGain:Low	Ø 3.0 MHz	3	TION WIDTH		Mkr1	50.00 n 1.10 dB



#### Duty Cycle NVNT BLE 2M 2440MHz Keysight Spectrum Analyzer - Swept SA 04:19:57 PM Aug 29, 2022 Avg Type: Log-Pwr TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N Center Freq 2.440000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low -----Mkr1 50.00 ms Ref Offset 0.5 dB Ref 20.00 dBm -0.84 dBm 10 dB/div 0.0 40.0 50.0 Center 2.440000000 GHz Span 0 Hz Sweep 100.0 ms (10001 pts) Res BW 1.0 MHz #VBW 3.0 MHz MRR MOD: 1 N 2 3 4 5 6 7 7 8 9 10 11 MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE 50.00 ms -0.84 dBm t STATUS Duty Cycle NVNT BLE 2M 2480MHz Keysight Spectrum Analyzer - Swept S κ RL RF 50 Ω Α 04:21:58 PM Aug 29, 2022 Avg Type: Log-Pwr TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N Center Freq 2.480000000 GHz PNO: Fast +++ IFGain:Low Trig: Free Run #Atten: 30 dB Mkr1 50.00 ms Ref Offset 0.5 dB Ref 20.00 dBm -0.21 dBm 0 dB/div 0.0 10.0 20.0 30.0 40.0 Center 2.480000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 100.0 ms (10001 pts) Y FUNCTION FUNCTION WIDTH -0.21 dBm MKR MODE TRC SCL FUNCTION VALUE 50.00 ms Ν t 2 3 4 5 6 7 8 9 10 11 STATUS



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# 2. Maximum Average Conducted Output Power

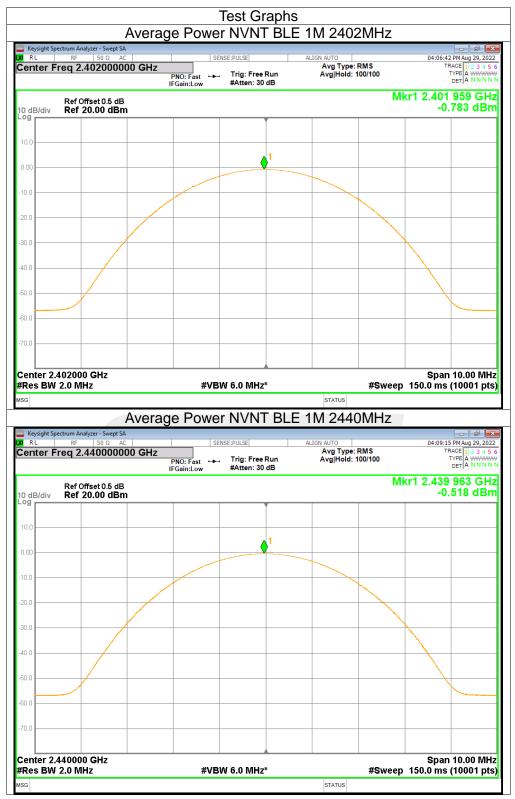
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-0.78	0	-0.78	<=30	Pass
NVNT	BLE 1M	2440	-0.52	0	-0.52	<=30	Pass
NVNT	BLE 1M	2480	0.13	0	0.13	<=30	Pass
NVNT	BLE 2M	2402	-1.13	0	-1.13	<=30	Pass
NVNT	BLE 2M	2440	-0.88	0	-0.88	<=30	Pass
NVNT	BLE 2M	2480	-0.25	0	-0.25	<=30	Pass



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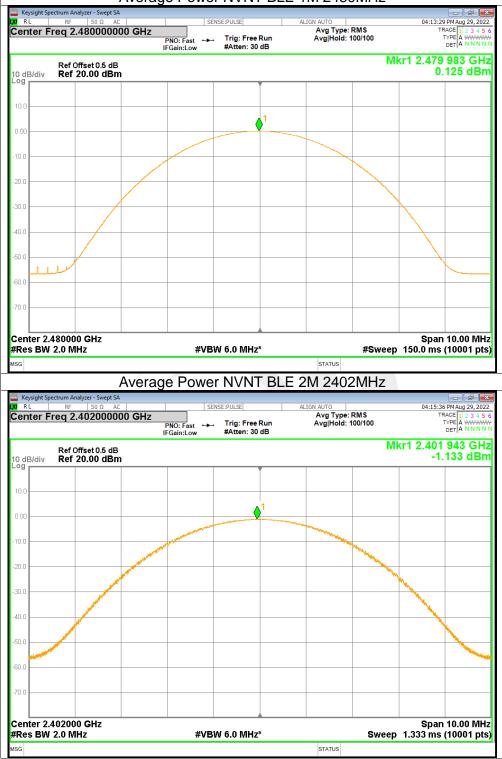
#### Page 48 of 75 Report No.: STS2208128W02



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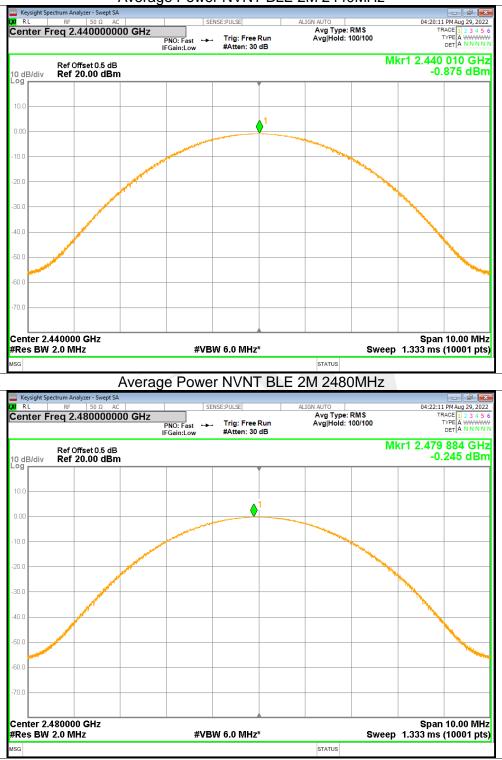


#### Average Power NVNT BLE 1M 2480MHz

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#### Average Power NVNT BLE 2M 2440MHz

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# 3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-0.62	<=30	Pass
NVNT	BLE 1M	2440	-0.34	<=30	Pass
NVNT	BLE 1M	2480	0.28	<=30	Pass
NVNT	BLE 2M	2402	-0.7	<=30	Pass
NVNT	BLE 2M	2440	-0.42	<=30	Pass
NVNT	BLE 2M	2480	0.21	<=30	Pass



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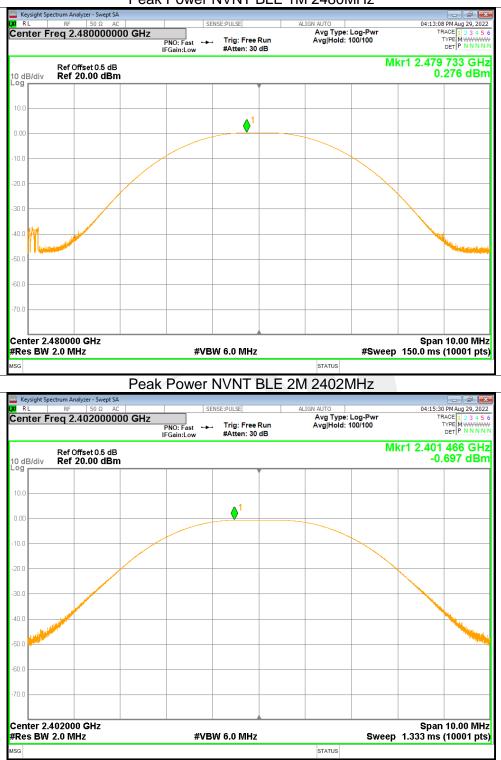
#### Page 52 of 75 Report No.: STS2208128W02



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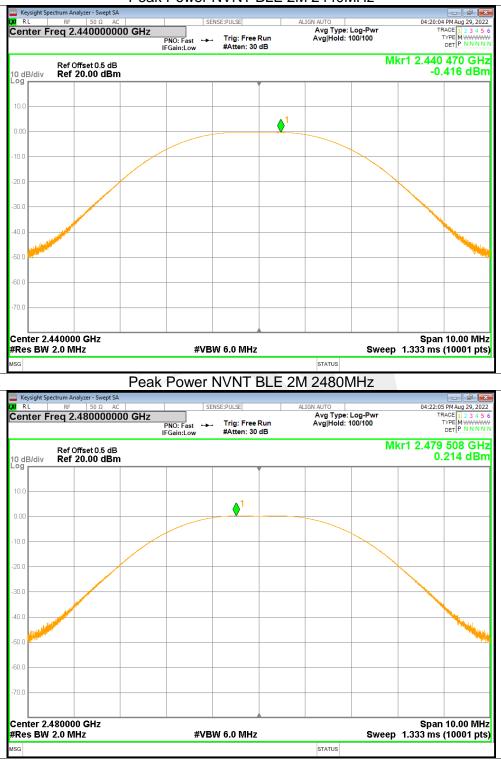


### Peak Power NVNT BLE 1M 2480MHz

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#### Peak Power NVNT BLE 2M 2440MHz

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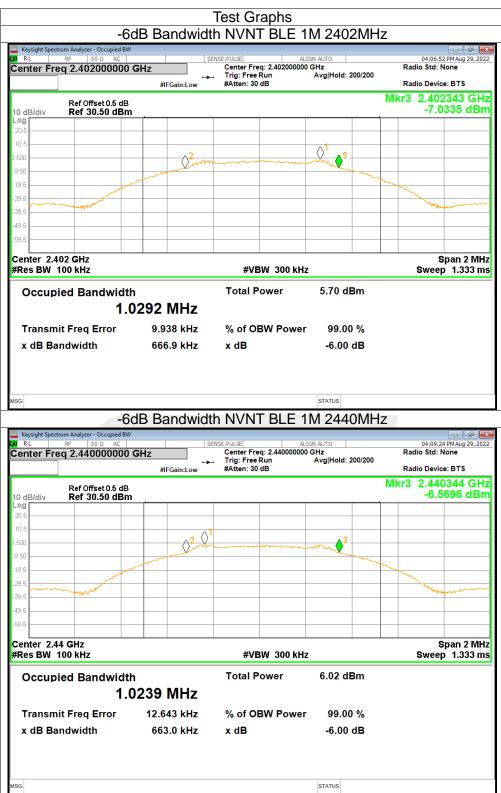
# 4. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.67	>=0.5	Pass
NVNT	BLE 1M	2440	0.66	>=0.5	Pass
NVNT	BLE 1M	2480	0.69	>=0.5	Pass
NVNT	BLE 2M	2402	1.34	>=0.5	Pass
NVNT	BLE 2M	2440	1.26	>=0.5	Pass
NVNT	BLE 2M	2480	1.32	>=0.5	Pass



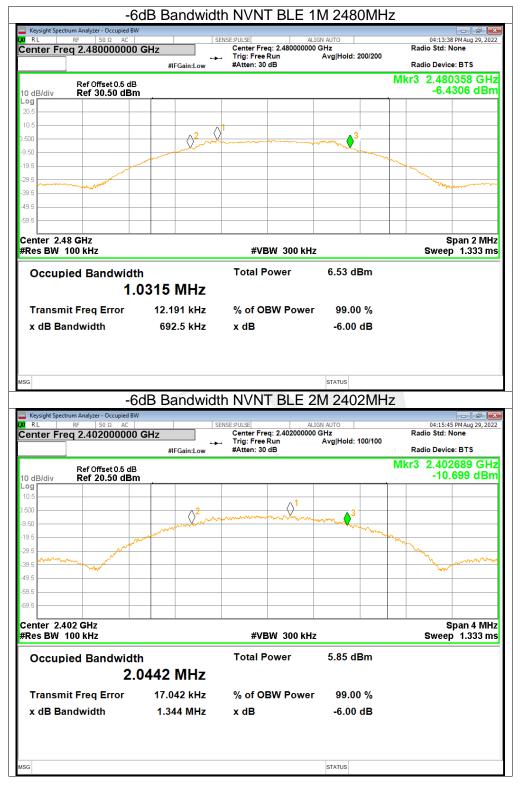
Shenzhen STS Test Services Co., Ltd.



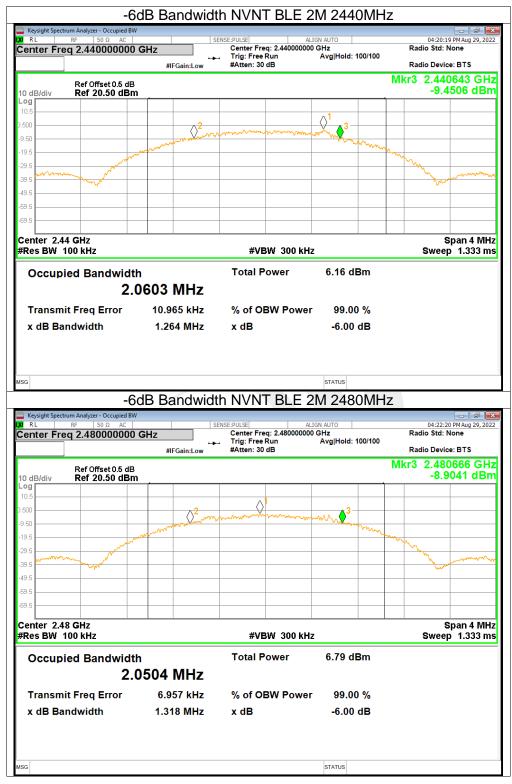




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# 5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-9.84	<=8	Pass
NVNT	BLE 1M	2440	-10.52	<=8	Pass
NVNT	BLE 1M	2480	-10.17	<=8	Pass
NVNT	BLE 2M	2402	-13.4	<=8	Pass
NVNT	BLE 2M	2440	-13.23	<=8	Pass
NVNT	BLE 2M	2480	-10.88	<=8	Pass



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Keysight Spectrum Analyzer - Swept SA           R L         RF         50 Ω         AC	SENSE:PULSE	ALIGN AUTO	04:07:01 PM Aug 29, 20
enter Freq 2.402000000 GHz	PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 20/20	TYPE MWWW DET PNNN
Ref Offset 0.5 dB		Mkr1	2.402 003 0 GF -9.835 dB
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0.0			
.00			
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0.0			
0.0			
0.0			
Keysight Spectrum Analyzer - Swept SA	PSD NVNT BLE 1M		
RL         RF         50 Ω         AC           enter Freq 2.440000000 GHz	SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 50/50	TRACE 1 2 3 4
enter Freq 2.440000000 GHz	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 50/50	TRACE 1 2 3 4 TYPE M WWW DET P N N N
Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide +++ Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 50/50	TRACE 1 2 3 4 TYPE MWWW DET P N N N 2.439 943 57 GH
enter Freq 2.440000000 GHz Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide +++ Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 50/50	04:09:36 PMAug 29,20 TRACE 12:34: TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
enter Freq 2.440000000 GHz dB/div Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide +++ Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 50/50	TRACE 1 2 3 4 TYPE MWWW DET P N N N 2.439 943 57 GH
Ref Offset 0.5 dB dB/div Ref 20.00 dBm	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
Ref Offset 0.5 dB dB/div Ref 20.00 dBm	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE 11 23 4 TYPE M WWW DET P NNN 2.439 943 57 GH -10.522 dB
Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide +++ Trig: Free Run	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
Ref Offset 0.5 dB Ref 20.00 dBm	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
enter Freq 2.44000000 GHz	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi
enter Freq 2.440000000 GHz	PNO: Wide $\rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hoid: 50/50 Mkr1 2	TRACE [] 2 3 4 TYPE M WWW DET P NNNI 2.439 943 57 GH -10.522 dBi



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				NI DLE I	M 2480MHz		
E Keysight Sp	ectrum Analyzer - Swept SA						04:12:46 DM Ave 20, 2022
	RF 50 Ω AC	0 GHz	5	ENSE:PULSE	ALIGN AUTO Avg Type:		04:13:46 PM Aug 29, 2022 TRACE 1 2 3 4 5 6
			NO: Wide ++ FGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 2	20/20	DET P N N N N
	Ref Offset 0.5 dB					Mkr1 2	.480 000 0 GHz
10 dB/div Log	Ref 20.00 dBm						-10.171 dBm
10.0							
0.00							
-10.0				<b>\</b> 1			
			La a Luad	1 Mar al March M	warder allow the second	alanda II	
-20.0	N proper van land	Maryan	ריירין אישעין	sk is lýbert, to sl k	www.understations	ALM IN HAVING MY	
h alla d	MMA WWW HIN W					114	Way Man Marker Contraction
-30.0							
-40.0							
-50.0							
-60.0							
-70.0							
-70.0							
	4000000 011-						0
denter 2. #Res BW	4800000 GHz 3.0 kHz		#VE	3W 10 kHz		Sweep 1	Span 1.035 MHz 09.1 ms (1001 pts)
MSG					STATUS	•	,
		P		NT BLE 2	M 2402MHz		
Keysight Sp	ectrum Analyzer - Swept SA	P	SD NVI	NT BLE 2	M 2402MHz		
X/ RL	pectrum Analyzer - Swept SA RF 50 Ω AC			NT BLE 2	ALIGN AUTO	Log Pur	04:16:12 PM Aug 29, 2022
LXI RL		0 GHz	NO: Wide ↔	ENSE:PULSE		Log-Pwr 100/100	04:16:12 PM Aug 29, 2022 TRACE 1 2 3 4 5 6 TYPE M WWWWW
X/ RL	RF 50 Ω AC	0 GHz	S	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PM Aug 29, 2022 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N
Center F	RF 50 Ω AC	0 GHz	NO: Wide ↔	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 ( TYPE M WWWWW DET P N N N N .402 144 7 GHz
Center F	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB	0 GHz	NO: Wide ↔	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 0 TYPE M WWWWN DET P N N N N .402 144 7 GHz
X RL Center F	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB	0 GHz	NO: Wide ↔	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N .402 144 7 GHz
Center F	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB	0 GHz	NO: Wide ↔	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 0 TYPE M WWWWN DET P N N N N .402 144 7 GHz
X RL Center F	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB	0 GHz	NO: Wide ↔	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N .402 144 7 GHz
20 dB/div	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB	0 GHz	NO: Wide ↔	ENSE:PULSE	ALIGN AUTO	00/100	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N .402 144 7 GHz
20 RL Center F 10 dB/div Log 10.0 0.00	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
2 RL Center F 10 dB/div Log	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
20 RL Center F 10 dB/div Log 10.0 0.00	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
2 RL Center F 10 dB/div Log	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 ( TYPE M WWWW DET P NNNN 402 144 7 GHz -13.404 dBm
10 dB/div Log 10.0 -10.0 -20.0 -30.0 lp4 <sup>n/1/</sup>	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 ( TYPE M WWWW DET P NNNN 402 144 7 GHz -13.404 dBm
20 dB/div	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
10 dB/div Log 10.0 -10.0 -20.0 -30.0	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
20 dB/div 10 dB/div 10 0 -10 0 -20.0 -30.0 440.0	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 ( TYPE M WWWW DET P NNNN 402 144 7 GHz -13.404 dBm
10 dB/div 10 dB/div 10 0 10 0 -10 0 -20 0 -30 0 -40 0	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
M         RL         Center F           Center F         10.0	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
20 RL Center F 10 dB/div 10.0 -10.0 -20.0 -20.0 -30.0 40.0 -50.0	RF 50 Ω AC req 2.40200000 Ref Offset 0.5 dB Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE I 2 3 4 5 6 TYPE MWWWW DET P NNNN 402 144 7 GHz -13.404 dBm
Interference         RL         Center F           10 dB/div         0.00         0.00           -10.0	Ref Offset 0.5 dB           Ref Offset 0.5 dB           Ref 20.00 dBm	0 GHz P IF	SNO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMarg 29, 2022 TRACE    2:3:4:5 6 TYPE    WWWWW DET  P NNNNN -402 144 7 GHz -13.404 dBm
20 RL Center F 10 dB/div 10.0 10.0 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 -50.0 -70.0 Center 2.	Ref Offset 0.5 dB           Ref 20.00 dBm	0 GHz P IF	S NO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMang 29, 2022 TRACE [] 2:3 4:5 6 TYPE [M WWWW DET P NNNN 402 144 7 GHz -13.404 dBm
Image: constraint of the second sec	Ref Offset 0.5 dB           Ref 20.00 dBm	0 GHz P IF	S NO: Wide FGain:Low	ENSE:PULSE	ALIGN AUTO Avg Type: Avg Hold: 1	00/100 Mkr1 2	04:16:12 PMAug 29, 2022 TRACE 1: 23 4 5 6 TYPE MWWWWW DET PNNNN 402 144 7 GHz -13.404 dBm

# PSD NVNT BLE 1M 2480MHz



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#### PSD NVNT BLE 2M 2440MHz Keysight Spectrum Analyzer - Swept SA 04:20:46 PM Aug 29, 2022 Center Freq 2.440000000 GHz TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N Avg Type: Log-Pwi Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low -----Mkr1 2.440 111 51 GHz -13.232 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div n nr 0 Mananaling Artes When we When w Muny why wind allow Mary Mary Mary Mary 30.0 40.0 50. 60. Center 2.4400000 GHz Span 1.890 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 199.3 ms (1001 pts) SG STATUS PSD NVNT BLE 2M 2480MHz Keysight Spectrum Analyzer - Swept SA 04:22:48 PM Aug 29, 2022 SENSE:PULSE Avg Type: Log-Pwr Avg|Hold: 100/100 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N Center Freq 2.480000000 GHz PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 902 98 GHz Ref Offset 0.5 dB Ref 20.00 dBm -10.875 dBm 10 dB/div Log 10.0 webstrand white may be many apply the of www. Storing the way to my to late way 20. 30.0 40.0 Center 2.4800000 GHz Span 1.980 MHz Sweep 208.8 ms (1001 pts) #Res BW 3.0 kHz #VBW 10 kHz STATUS SG



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# 6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-57.4	<=-20	Pass
NVNT	BLE 1M	2480	-58.23	<=-20	Pass
NVNT	BLE 2M	2402	-33.11	<=-20	Pass
NVNT	BLE 2M	2480	-55.54	<=-20	Pass



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Keysight Spectrum Analyzer - Swept	t SA			1 2402MHz Re	- • •
RL RF 50 Ω Center Freq 2.402000			E:PULSE	ALIGN AUTO Avg Type: Log-Pw	04:07:16 PM Aug 29, 202 TRACE 1 2 3 4 5
	P	NO: Wide	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TYPE MWWW DET P N N N N
Ref Offset 0.5 d 0 dB/div Ref 20.50 dE					Mkr1 2.402 248 GH -0.999 dBr
og					
10.5					
.500					
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9.50					
19.5					
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29.5					
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49.5				- <u>v</u>	
59.5 Martin Martin	advant when	www.		may low way	ution and manificular for a second with
69.5					
Center 2.402000 GHz Res BW 100 kHz		40 (D) 44			Span 8.000 MH
			300 kHz	#9	Sween 100.0 ms (1001 nfe
SG		#VBW	300 kHz	#S	Sweep 100.0 ms (1001 pt
sg Bi	and Edge			STATUS	•
Keysight Spectrum Analyzer - Swept	t SA				sion
Bi Keysight Spectrum Analyzer - Swept RL RF 50 Ω	AC		BLE 1M 24	STATUS 402MHz Emis ALIGN AUTO Avg Type: Log-Pw	sion 04:07:29 PM Aug 29, 202
Bi Keysight Spectrum Analyzer - Swept RL RF 50 Ω	AC 0000 GHz P		BLE 1M 24	status 402MHz Emis	Sion 04:07:29 PM Aug 29, 202 rr TRACE   2 34 5 TYPE   WWWW
B. Keysight Spectrum Analyzer - Swept RL   RF   50 Ω Center Freq 2.356000	AC 0000 GHz		BLE 1M 24	STATUS 402MHz Emis ALIGN AUTO Avg Type: Log-Pw	Sion 04:07:29 PMAug 29, 20 r TRACE   2 3 4 5 TYPE   WWWW DET   P NNNN Mkr1 2.402 0 GH
B.           Keysight Spectrum Analyzer - Swept           RL         RF         50 Ω           Center Freq 2.356000           Ref Offset 0.5 d           Ref Offset 0.5 d           Ref 20.50 dE	AC 0000 GHz P		BLE 1M 24	STATUS 402MHz Emis ALIGN AUTO Avg Type: Log-Pw	Sion 04:07:29 PMAug 29, 20 r TRACE   2 3 4 5 TYPE   WWWW DET   P NNNN Mkr1 2.402 0 GH
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B: Keysight Spectrum Analyzer - Swept RL RF 50 Center Freq 2.356000 Ref Offset 0.5 c 0 dB/div Ref 20.50 dE 9 10.5 500 9.50 9.50 9.50	AC 0000 GHz P		BLE 1M 24	STATUS 402MHz Emis ALIGN AUTO Avg Type: Log-Pw	Sion 04:07:29 PMAug 29, 202 r TRACE 2 2 3 4 5 TYPE M WWW DBT P NNNN Mkr1 2.402 0 GH -1.125 dBr
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Reysight Spectrum Analyzer - Swept           RL         RF         50 at           Center Freq 2.356000         Ref Offset 0.5 c           10 dB/div         Ref 2000 dE           10 dB/div         Ref 2000 dE           90	AC 0000 GHz P		BLE 1M 24	STATUS 402MHz Emis ALIGN AUTO Avg Type: Log-Pw	Sion 04:07:29 PM Aug 29, 202 r TRACE 23 4 5 TYPE M WWW DET P NNNN Mkr1 2.402 0 GH; -1,125 dBn
Reysight Spectrum Analyzer - Swept           RL         RF         50 at           center Freq 2.356000         Ref Offset 0.5 c         0           0 dB/div         Ref Offset 0.5 d         0           0 g	AC     AC     10000 GHz   P IF dB 3m		BLE 1M 24	STATUS 402MHz Emis ALIGN AUTO Avg Type: Log-Pw	Sion 04:07:29 PMag 29, 202 r TRACE 2 3 4 5 TYPE M WWW Mkr1 2.402 0 GH -1.125 dBr
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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 3686 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com



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Keysight Sp	octrum A										
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# Band Edge NVNT BLE 1M 2480MHz Ref



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Keysight RL Center	Freq 2	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E Align Auto Avg Type: L	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Ceysight RL Center	Freq 2	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E Align Auto Avg Type: L	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Keysight     RL     C     enter     0 dB/div     0     0     0     0     0     0     0     0     0	Freq 2	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E Align Auto Avg Type: L	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Keysight     RL     Center     0 dB/div     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0	Freq 2	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E Align Auto Avg Type: L	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Keysight     RL     C dB/dit     O dB/d	Freq 2	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E Align Auto Avg Type: L	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Keysight           RL           enter           0 dB/div           0 0           0 0           10.0           10.0           20.0           20.0           40.0	Freq 2	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E Align Auto Avg Type: L	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Keysight     RL     RL     Conter     O dB/div     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O	Ref Ref	Ba 50 Ω Ac 2.3560000 7 Offset 0.5 dB f 20.00 dBr	00 GHz	SEN PNO: Fast	SE:PULSE	2402MHz E	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Keysight           RL           center           0           00           10.0           000           10.0           0.00           10.0           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           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00	Ref Ref	Ba Analyzer - Swept SA 50 Ω AG 2.3560000	00 GHz	SEN PNO: Fast ↔	SE:PULSE	2402MHz E	.og-Pwr 00/100	04:16:23 TF	PMAug 29, 202 PMAug 29, 202 Acace [1 2 3 4 5 PM Mug 29, 202 PM NNN Det PM NNN Det PM NNN Det PM NNN Det Acace Ac
Keysight     RL     RL     Center     0 dB/div     0 0     0 0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.0     10.	Ref Ref	Ba 50 Ω Ac 2.3560000 7 Offset 0.5 dB f 20.00 dBr	00 GHz	SEN PNO: Fast + Gain:Low	SE:PULSE	2402MHz E	.og-Pwr 00/100	04:16:23 TF	PM Aug 29, 202 ACE 1 2 3 4 5 TYPE MWWW DET P N N N N 02 1 GH
Keysight     RL     Center     O dB/div     O g     T0.0     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O	Ref Ref Ref 30600	Ba	00 GHz	SEN PNO: Fast + Gain:Low	SE:PULSE	2402MHz E	og-Pwr 00/100	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE
Keysight     RL     Center     O dB/div     O g     T0.0     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O	Ref Ref Ref	Ba	00 GHz	SEN SEN SGain:Low	SE:PULSE	2402MHz E	og-Pwr 00/100	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE
Keysight     RL     RL     RL     O dEJ/di     O	Ref Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	x	SEN PNO: Fast Gain:Low #VBW	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE
Keysight     RL     RL	Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F n n 2.402 1 GHz	SEN PNO: Fast → Gain:Low #VBV #VBV	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29,202 Add El 23,45 Model 23,45 Model 23,45 Det P NNNN Det P NNNNN DET P NNNNNN DET P NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Content 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	Ref Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F F F F F F F F F F F F F F F F F F	SEN PNO: Fast Gain:Low #VBV ¥VBV × -2.314 c -35.658 c	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE
Keysight           RL           center           0 dB/dii           0 g           10.0           20.0           30.0           40.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0	Ref Ref 2000 000 000 000 000 000 000 000 000 0	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F F F F F F F F F F F F	SEN CGain:Low #VBV * * * * * * * * *	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29,202 Add El 23,45 Model 23,45 Model 23,45 Det P NNNN Det P NNNNN DET P NNNNNN DET P NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Keysight           RL           Center           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           0           0           0           0           0           0           0           0           0	Ref Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F F F F F F F F F F F F F F F F F F	SEN PNO: Fast Gain:Low #VBV ¥VBV × -2.314 c -35.658 c	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29,202 Add El 23,45 Model 23,45 Model 23,45 Det P NNNN Det P NNNNN DET P NNNNNN DET P NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Keysight           RL           center           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           0           0           0           0           0           0           0           0           0           0           0           0	Ref Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F F F F F F F F F F F F F F F F F F	SEN PNO: Fast Gain:Low #VBV ¥VBV × -2.314 c -35.658 c	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE 12, 3, 4 ADDE 12, 4 ADDE 12
Keysight           RL           center           0 dB/div           0 g           10.0           10.0           10.0           10	Ref Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F F F F F F F F F F F F F F F F F F	SEN PNO: Fast Gain:Low #VBV ¥VBV × -2.314 c -35.658 c	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE 12, 3, 4 ADDE 12, 4 ADDE 12
Keysight     RL     RL     RL     RL     RL     RL     SO     SO	Ref Ref Ref 30600 W 100	Ba so Q Arabiter Side so Q Arabiter Side and Control of Social	00 GHz F F F F F F F F F F F F F F F F F F F	SEN PNO: Fast Gain:Low #VBV ¥VBV × -2.314 c -35.658 c	SE:PULSE Trig: Free Run #Atten: 30 dB	2402MHz E	og-Pwr 00/100 	04:16:22 TF Akr1 2.4 -2.	1PMaug 29, 2024 ADDE 12, 3, 4, 5 ADDE 12, 3, 4 ADDE 12, 4 ADDE 12, 3, 4 ADDE 12, 4 ADDE 12

# Band Edge NVNT BLE 2M 2402MHz Ref



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Keysight Spectrum Analyzer - Swe RL RF 50 Ω		SENG	E:PULSE	ALIGN AUTO		04-22-51	💶 💣 3 PM Aug 29, 2
inter Freq 2.48000		5ENS		Avg Type:		TF	RACE 1 2 3 4
	PI	NO: Wide ↔↔ Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: '	100/100		DET P N N N
Ref Offset 0.5					M	kr1 2.480	
dB/div Ref 20.00 d						-2.	.808 dE
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nter 2.480000 GHz			A			Span	8.000 M
es BW 100 kHz		#VBW	300 kHz		Sweep	o 1.000 ms	
				STATUS			
		NIV/NIT	DIEOM				
	sand Edde			2480MHz E	mission	า	
Keysight Spectrum Analyzer - Swe	ept SA			2480MHz E	mission		
Keysight Spectrum Analyzer - Swe R L RF 50 Ω	ept SA AC			ALIGN AUTO		04:22:58 TF	8 PM Aug 29, 2 RACE 1 2 3 4
Keysight Spectrum Analyzer - Swe R L RF 50 Ω	ept SA AC 00000 GHz P	SENS NO: Fast ↔	E:PULSE		Log-Pwr	04:22:58 TF	8 PM Aug 29, 2 RACE 1 2 3 4
Keysight Spectrum Analyzer - Swe RL RF 50 Ω nter Freq 2.52600	AC       AC       00000 GHz     IF	SENS	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF	8 PM Aug 29, 2 RACE 1 2 3 4 TYPE M WWW DET P N N N
Keysight Spectrum Analyzer - Swe RL RF 50 Ω Inter Freq 2.52600 Ref Offset 0.5 dB/div Ref 20.00 d	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PM Aug 29, 2 RACE 1 2 3 4 TYPE M WWW DET P N N N 80 2 G
Keysight Spectrum Analyzer - Swe RL RF 50 Ω Inter Freq 2.52600 Ref Offset 0.5 dB/div Ref 20.00 d	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PM Aug 29, 20 RACE 1 2 3 4 TYPE M WWW DET P N N N 80 2 GH
Keysight Spectrum Analyzer - Swe RL RF 50 Ω Inter Freq 2.52600 Ref Offset 0.5 dB/div Ref 20.00 d	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 21 RACE 1 2 3 4 TYPE M WWW DET P N N N 80 2 GH 097 dB
Keysight Spectrum Analyzer - Swe RL RF 50 Ω Inter Freq 2.52600 Ref Offset 0.5 dB/div Ref 20.00 d	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PM Aug 29, 20 RACE 1 2 3 4 TYPE M WWW DET P N N N 80 2 GH
Keysight Spectrum Analyzer - Swe RL RF 50 Ω mter Freq 2.52600 dB/div Ref Offset 0.5 g 0 0 0 0	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 21 RACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB
Resight Spectrum Analyzer - Swe           RL         RF         50 Ω           Inter Freq 2.52600         Ref Offset 0.5           dB/div         Ref 20.00 d           9         1           0         1	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 21 RACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB
Resight Spectrum Analyzer - Swe           RL         RF         50 Ω           Inter Freq 2.52600         Ref Offset 0.5           dB/div         Ref 20.00 d           0         1           0         1           0         1           0         1	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 21 RACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB
Resight Spectrum Analyzer - Swe           RL         RF         50 Ω           Inter Freq 2.52600         Ref Offset 0.5           B/div         Ref 20.00 d           0         1           0         1           0         1           0         1           0         1	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 21 RACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB
Keysight Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 2.52600 B/div Ref 20.00 d g 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO AVG Type: Avg Hold: /	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 2 RACE   2 3 4 TYPE MWWW DET P N N N 80 2 GH 097 dB
Keysight Spectrum Analyzer - Swe RL RF 150 Ω nter Freq 2.52600 B/div Ref 20.00 d	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO AVG Type: Avg Hold: /	Log-Pwr 100/100	04:22:58 TF Mkr1 2.4	8 PMAug 29, 2 RACE   2 3 4 TYPE MWWW DET P N N N 80 2 GH 097 dB
Keysight Spectrum Analyzer - Swe RL RF 50 Ω Inter Freq 2.52600 B/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC P	SENS NO: Fast ↔	E:PULSE	ALIGN AUTO AVG Type: Avg Hold: /	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2.	B PMAug 29,2,2 AGE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB -22.01-
Keysight Spectrum Analyzer - Swe RL RF 50 0 Inter Freq 2.52600 B/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC P	SENS PNO: Fast Gain:Low	E:PULSE	ALIGN AUTO AVG Type: Avg Hold: /		04:22:55 TF Mkr1 2.4 -2.	8 PMAUg 29,2,2 AACE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB 
Keysight Spectrum Analyzer - Swe RL RF 50 0 Inter Freq 2.52600 B/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0	x	SENS PNO: Fast	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO AVG Type: Avg Hold: /	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2.	8 PMAUg 29,2,2 AACE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB 
Keysight Spectrum Analyzer - Swe           RL         RF         50 Q           Inter Freq 2.52600           Ref Offset 0.5           dB/div         Ref 20.00 d           0         1         0           0         1         0           0         1         0           0         1         0           0         1         0           0         2         0           0         2         0           0         2         0           0         2         0           0         2         0           0         1         1           0         2         0           1         1         1           1         1         1           1         1         1	x 2.480 2 GHz 2.480 2 GHz	SENS PNO: Fast →- Gain:Low Gain:Low #VBW * * * * * * * * *	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAUg 29,2,2 AACE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB 
Keysight Spectrum Analyzer - Swe           RL         RF         50 Q           Inter Freq 2.52600         Ref Offset 0.5         Ref 20.00 d           BdB/div         Ref 20.00 d         Ref 20.00 d           Image: Specific section of the section	AC P P P F G G G B B C C C C C C C C C C C C C	SENS PNO: Fast → Gain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAUg 29,2,2 AACE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB 
Keysight Spectrum Analyzer - Swe           RL         RF         50 Q           Inter Freq 2.52600         Ref Offset 0.5           dB/div         Ref 20.00 d           Image: Specific or Spe	AC P 10000 GHz P IF i dB IBM 2.480 2 GHz 2.480 2 GHz 2.483 5 GHz 2.480 0 GHz	SENS PNO: Fast → Gain:Low #VBW 2.2097 df -60.811 df	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAUg 29,2,2 AACE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB 
Keysight Spectrum Analyzer - Swe           RL         RF         50 Q           enter Freq 2.52600           Ref Offset 0.5           dB/div         Ref Offset 0.5           dB/div         Ref Offset 0.5           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         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         0         0         0         0         0	AC P 10000 GHz P IF i dB IBM 2.480 2 GHz 2.480 2 GHz 2.483 5 GHz 2.480 0 GHz	SENS PNO: Fast → Gain:Low #VBW 2.2097 df -60.811 df	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAUg 29,2,2 AACE 1 2 3 4 TYPE M WWW DET P NNN 80 2 GF 097 dB 
Keysight Spectrum Analyzer - Swe           RL         RF         50 Q           enter Freq 2.52600           Ref Offset 0.5           dB/div         Ref 20.00 d           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         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	AC P 10000 GHz P IF i dB IBM 2.480 2 GHz 2.480 2 GHz 2.483 5 GHz 2.480 0 GHz	SENS PNO: Fast → Gain:Low #VBW 2.2097 df -60.811 df	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAU 29, 21 4 MACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB 
Keysight Spectrum Analyzer - Swe           RL         RF         50 Q           Inter Freq 2.52600         Ref Offset 0.5           dB/div         Ref 20.00 d           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           1         1           1         1           1         1           1         1           1         1	AC P 10000 GHz P IF i dB IBM 2.480 2 GHz 2.480 2 GHz 2.483 5 GHz 2.480 0 GHz	SENS PNO: Fast → Gain:Low #VBW 2.2097 df -60.811 df	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAU 29, 21 4 MACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB 
Respirate         Ref         So mail           RL         RF         50 mail           Inter Freq 2.52600         Ref Offset 0.5           B/div         Ref 20.00 d           Image: State of the state	AC P 10000 GHz P IF i dB IBM 2.480 2 GHz 2.480 2 GHz 2.483 5 GHz 2.480 0 GHz	SENS PNO: Fast → Gain:Low #VBW 2.2097 df -60.811 df	Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 100/100	04:22:55 TF Mkr1 2.4 -2. -2. 	8 PMAU 29, 21 4 MACE 1 2 3 4 TYPE MWWW DET P NNN 80 2 GH 097 dB 

# Band Edge NVNT BLE 2M 2480MHz Ref



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# 7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-34.83	<=-20	Pass
NVNT	BLE 1M	2440	-44.28	<=-20	Pass
NVNT	BLE 1M	2480	-34.55	<=-20	Pass
NVNT	BLE 2M	2402	-43.26	<=-20	Pass
NVNT	BLE 2M	2440	-46.32	<=-20	Pass
NVNT	BLE 2M	2480	-44.06	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.



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	Tx, Sr		est Graph	s M 2402MHz R	ef
Keysight Spectrum Analyze	er - Swept SA				
enter Freq 2.40	50 Ω AC <b>)2000000 GHz</b>	PNO: Wide	Trig: Free Run Atten: 40 dB	ALIGN AUTO Avg Type: Log-Pw Avg Hold: 100/100	04:07:45 PM Aug 29, 20 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N
) dB/div Ref 30.	et 0.5 dB .00 dBm				Mkr1 2.401 761 5 GH -0.750 dBr
pg			Y		
20.0					
0.0					
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0.0			·		
0.0					
0.0					
0.0					
0.0					
0.0					
1.0					
				STATUS	
R L RF	er - Swept SA 50 Ω AC	SENS	E:PULSE	ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10	04:07:55 PM Aug 29, 20 TRACE 1 2 3 4 5 TYPE M WWWWW
RL RF enter Freq 13.2	er - Swept SA 50 Ω AC   265000000 GH	SENS	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRACE 2 3 45 TYPE MWWW DET P NNN Mkr1 2.401 7 GH
RL RF enter Freq 13.2 Ref Offs O dB/div Ref 30.	er - Swept SA 50 Ω AC	Z PNO: Fast	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRACE 2 3 45 TYPE MWWW DET P NNN Mkr1 2.401 7 GH
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref 30.	er - Swept SA 50 Ω AC 265000000 GH2 eet 0.5 dB	Z PNO: Fast	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRACE 2 3 45 TYPE MWWW DET P NNN Mkr1 2.401 7 GH
RL         RF           enter Freq 13.2           0 dB/div         Ref Offs           29            0.0	er - Swept SA 50 Ω AC 265000000 GH2 eet 0.5 dB	Z PNO: Fast	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRACE 2 3 45 TYPE MWWW DET P NNN Mkr1 2.401 7 GH
RL         RF           enter Freq 13.2           0 dB/div         Ref Offs           20 dB/div         Ref 30.           90         1           0.00         1	er - Swept SA 50 Ω AC 265000000 GH2 eet 0.5 dB	Z PNO: Fast	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 02 r TRACE [] 2 3 4 TYPE [] WWW DET [] NNN Mkr1 2.401 7 GH -5.983 dBr
RL         RF           enter Freq 13.2           0 dB/div         Ref Offs           0 dB/div         Ref 30.           0 dB/div         Ref 30.           0 dB/div         Ref 1	er - Swept SA 50 Ω AC 265000000 GH2 et 0.5 dB .00 dBm	Z PNO: Fast IFGain:Low	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 02 r TRACE [] 2 3 4 TYPE [] WWW DET [] NNN Mkr1 2.401 7 GH -5.983 dBr
RL         Rf           enter Freq 13.2           Comparison           Comparison <t< td=""><td>er - Swept SA 50 Ω AC 265000000 GH; et 0.5 dB .00 dBm</td><td>Z PNO: Fast →→ IFGain:Low</td><td>E:PULSE                                      </td><td>ALIGN AUTO AVg Type: Log-Pw Avg Hold: 10/10</td><td>04:07:55 PM Aug 29, 20 r TRADE 1 2:34 5 TYPE M WWW DET P NNNN MKr1 2.401 7 GH -5.983 dBr -2075 dB</td></t<>	er - Swept SA 50 Ω AC 265000000 GH; et 0.5 dB .00 dBm	Z PNO: Fast →→ IFGain:Low	E:PULSE	ALIGN AUTO AVg Type: Log-Pw Avg Hold: 10/10	04:07:55 PM Aug 29, 20 r TRADE 1 2:34 5 TYPE M WWW DET P NNNN MKr1 2.401 7 GH -5.983 dBr -2075 dB
Ref Offs 0 dB/div Ref 0ffs 0 20.0 0 00 0 00 0 00 0 00 0 00 0 00 0	er - Swept SA 50 Ω AC 265000000 GH; et 0.5 dB .00 dBm	Z PNO: Fast →→ IFGain:Low	E:PULSE	ALIGN AUTO AVg Type: Log-Pw Avg Hold: 10/10	04:07:55 PM Aug 29, 20 r TRADE 1 2:34 5 TYPE M WWW DET P NNNN MKr1 2.401 7 GH -5.983 dBr -2075 dB
RL         Rf           enter Freq 13.2           enter Freq 13.2           C dB/div           Ref Offs           O dB/div           Ref 0ffs           O dB/div           O dB/div           Ref 0ffs           O dB/div           Ref 0ffs           O dB/div           Ref 0ffs           O dB/div           O dB/div           Ref 0ffs           O dB/div           Ref 0ffs           O dB/div           Ref 0ffs           O dB/div           Ref 0ffs	er - Swept SA 50 Ω AC 265000000 GH; et 0.5 dB .00 dBm	Z PNO: FASt IFGain:Low 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRACE 1 2:34 5 TYPE M WWW DET P NNNN Mkr1 2:401 7 GH -5.983 dBr -2075 dB -2075 dB -2
RL         Rf           enter Freq 13.2           enter Freq 13.2           Code/div           Ref Offs           Code/div           Code/div           Ref Offs           Code/div           Code/div           Code/div           Code/div           Ref Offs           Code/div           Ref Offs           Code/div           Ref Offs           Ref Offs           Ref Offs           Code/div           Ref Offs           Ref Offs           Code/div           Code/div           Code/div           Code/div           Code/div	er - Swept SA 50 Q: AC 265000000 GH; 265000000 GH; 26500 dBm 00 dBm 00 dBm	Z PNO: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 02 r TRACE 2 3 4 5 TYPE M WWWW DET P NNNN Mkr1 2.401 7 GH -5.983 dBr
RL         RF           enter Freq 13.2           enter Freq 13.2           Ref Offs           0 dB/div           Ref 30.           20.0           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           0.0           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           0.0           0.0           0.0           0.0           0.0           0.0 </td <td>er - Swept SA 50 Ω AC 265000000 GH2 100 dBm 100 dBm</td> <td>Z PNO: Fast IFGain:Low 4 4 5 1 4 4 5 4 4 5 8 4 4 5 8 4 4 5 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>E:PULSE</td> <td>2402MHz Emis</td> <td>04:07:55 PM Aug 29, 20 r TRADE 1 2 3.4 5 TYPE M WWW DET P NNN Mkr1 2.401 7 GH -5.983 dBr -0.075 dE -2075 dE -</td>	er - Swept SA 50 Ω AC 265000000 GH2 100 dBm 100 dBm	Z PNO: Fast IFGain:Low 4 4 5 1 4 4 5 4 4 5 8 4 4 5 8 4 4 5 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRADE 1 2 3.4 5 TYPE M WWW DET P NNN Mkr1 2.401 7 GH -5.983 dBr -0.075 dE -2075 dE -
RL         RF           enter Freq 13.2           enter Freq 13.2           odB/div         Ref Offs           odB/div         Ref 30.0           od         Image: State of the sta	er - Swept SA 50 Q AC 265000000 GH2 ret 0.5 dB .00 dBm .00 dBm .00 dBm .00 dBm .00 dBm .00 dBm	Z PNO: Fast IFGain:Low → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 20 r TRADE 1 2 3.4 5 TYPE M WWW DET P NNN Mkr1 2.401 7 GH -5.983 dBr -0.075 dE -2075 dE -
RL         RF           enter Freq 13.2           enter Freq 13.2           Ref Offs           0 dB/div           Ref Offs           0 dB/div           Ref 30.           20.0           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           0.00           0.00           0.00           0.00           0.00           0.00           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           0.03	er - Swept SA 50 Ω AC 265000000 GH2 et 0.5 dB .00 dBm .00 dBm	Z PNO: Fast IFGain:Low → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 02 r TRACE 1 2:34 5 TYPE M WWWW DET P NNN Mkr1 2:401 7 GH -5.983 dBr -2075 dE -2075 dE -2
RL         PF           enter Freq 13.2           enter Freq 14.1	er - Swept SA 50 Ω AC 265000000 GH2 et 0.5 dB .00 dBm .00 dBm	Z PNO: Fast IFGain:Low → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	E:PULSE	2402MHz Emis	04:07:55 PM Aug 29, 02 r TRACE 1 2:34 5 TYPE M WWWW DET P NNN Mkr1 2:401 7 GH -5.983 dBr -2075 dE -2075 dE -2



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Keysight Spectrum Ana								ē
	50 Ω AC 440000000 G	Hz	SENSE:PULSE	ALIC	AVg Type:	Log-Pwr	TF	L PM Aug 29, 20 RACE 1 2 3 4
anter Freq 2.4	++0000000 G	PNO: Wide	Trig: Free F		Avg Hold: 1			TYPE MWWW DET P N N N
		IFGain:Low	#Atten: 30 (	<b>u</b> D		Mire	1 2.440 2	
	ffset 0.5 dB					WIKF		426 dB
dB/div Ref 2	20.50 dBm						-•.	420 00
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3								
	Tx, Sp	urious NV	NT BLE	1M 244(	status MHz	missic	n	
Keysight Spectrum Ana R L RF	llyzer - Swept SA 50 Ω AC	urious NV			OMHZ I		04:10:0	L PM Aug 29, 20
Keysight Spectrum Ana R L RF	lyzer - Swept SA	GHz	SENSE:PULSE	ALIC	)MHz I	Log-Pwr	04:10:0	L PM Aug 29, 20 RACE 1 2 3 4
Keysight Spectrum Ana R L RF	llyzer - Swept SA 50 Ω AC		SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0 Tf	L PM Aug 29, 20 RACE 1 2 3 4 TYPE M WWW DET P N N N
Keysight Spectrum Ana RL RF enter Freq 13 Ref O	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	ACE 1 2 3 4 TYPE MWWW DET P N N N
Keysight Spectrum Ana RL RF enter Freq 13 Ref O	ilyzer - Swept SA 50 Ω AC <b>5.2650000000</b>	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	ACE 1 2 3 4 TYPE MWWW DET P N N N
Keysight Spectrum Ana RL RF enter Freq 13 Ref O dB/div Ref 2	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	EPMaug 29, 24 1 PMAug 29, 24 TYPE MWWW DET P NNN 40 5 GH 381 dB
Keysight Spectrum Ana RL RF enter Freq 13 Ref O dB/div Ref 2	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	ACE 1 2 3 4 TYPE MWWW DET P NNN
Reysight Spectrum Ana RL RF enter Freq 13 Ref 0 dB/div Ref 2	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	ACE 1 2 3 4 TYPE MWWW DET P NNN
Keysight Spectrum Ana RL RF enter Freq 13 rdB/div Ref 2 9 0.5	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	ACE 1 2 3 4 TYPE MWWW DET P NNN
Keysight Spectrum Ana RL RF enter Freq 13 dB/div Ref 2 9 1.5 00 50	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	40 5 GH 381 dB
Keysight Spectrum Ana RL RF enter Freq 13 dB/div Ref 2 9 5 5 5 9.5	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC		Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	40 5 GH 381 dB
Keysight Spectrum Ana RL RF enter Freq 13 Ref 0 dB/div Ref 2 9 9.5 9.5	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC Run dB	Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	LPMAug 29, 24 AACE   2 3 4 TYPE MWWW DET P NNN 40 5 GH 381 dB
Keysight Spectrum Ana RL RF enter Freq 13 Ref 0 dB/div Ref 2 9 9.5 0.5 0.5 0.5 0.5 0.5	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC Run dB	Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	40 5 GH 381 dB
Reysight Spectrum Ana RL RF enter Freq 13 Ref O dB/div Ref 2 9 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC Run dB	Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4	LPMAug 29, 24 AACE   2 3 4 TYPE MWWW DET P NNN 40 5 GH 381 dB
Keysight Spectrum Ana RL RF enter Freq 13 dB/div Ref 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Hyzer - Swept SA 50 Ω AC 8.265000000 ( ffset 0.5 dB	GHz PNO: Fast	SENSE:PULSE	ALIC Run dB	Avg Hold: 1	Log-Pwr 0/10	04:10:0: Tr Mkr1 2.4 -4.	PMaug 29, 21 Marcel 12 3 4 TYPE M WWW DET P NNN 40 5 GF 381 dB
Ref O dB/div Ref 2 dB/div Ref 2	Ilyzer - Swept SA 50 Ω AC 3.265000000 ( ffset 0.5 dB 20.50 dBm	GHz PNO: Fast IFGain:Low	SENSE:PULSE	ALIC Run dB	Avg Hold: 1	Log-Pwr 0/10	04:10:0: Tr Mkr1 2.4 -4.	PMaug 29, 21 Made 1 23 4 TYPE MWWW DET P NNN 40 5 GH 381 dB -20.43
Res BW 100 kk	Ilyzer - Swept SA 50 Ω AC 3.265000000 ( ffset 0.5 dB 20.50 dBm	GHz PNO: Fast IFGain:Low	SENSE:PULSE		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1 23 4 TYPE M WWW DET P NNN 40 5 GH 381 dB -20.43 26.50 GI
Ref 0 dB/div Ref 2 9 0 0 0 0 0 0 0 0 0 0 0 0 0	Ilyzer - Swept SA 50 Q AC 3.265000000 ( Iffset 0.5 dB 20.50 dBm 4 4 4 4 4 4 4 5 4 5 4 5 5 4 5 5 4 5 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	GHz PNO: Fast IFGain:Low	SENSE:PULSE Trig: Free F #Atten: 30 / 		Avg Hold: 1	Log-Pwr 0/10	04:10:0: Tr Mkr1 2.4 -4.	PMaug 29, 21 Made 1 23 4 TYPE M WWW DET P NNN 40 5 GH 381 dB -20.43 26.50 GI
Ref 0 dB/div Ref 2 9 0 0 0 0 0 0 0 0 0 0 0 0 0	Ilyzer - Swept SA 50 Ω AC 3.265000000 C ffset 0.5 dB 20.50 dBm 40.50 dBm	GHz PNO: Fast IFGain:Low 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE Trig: Free F #Atten: 30 0 5 5 5 5 5 5 5 5 5 5 5 5 5		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1 23 4 TYPE M WWW DET P NNN 40 5 GH 381 dB -20.43 26.50 GI
Reysight Spectrum Ana           RL         RF           enter Freq 13         Ref 0           dB/div         Ref 2           29         1           30         1           50         1           50         1           50         1           51         1           52         1           53         1           54         1           55         1           56         1           57         1           58         1           59         1           50         1           51         1           52         1           53         1         1           54         1         1           55         1         1         1           53         1         1         1	Ilyzer - Swept SA 50 Q AC 3.265000000 ( ffset 0.5 dB 20.50 dBm data to a set of the data start to a set of the data files to a set of	GHz PNO: Fast IFGain:Low 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE Trig: Free F #Atten: 30 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1 23 4 TYPE M WWW DET P NNN 40 5 GH 381 dB -20.43 26.50 GI
Reysight Spectrum Ana           RL         RF           enter Freq 13           dB/div         Ref 0           dB/div         Ref 0           09         0         1         1           09         0         0         1         1           00         0         0         0         1         1           00         0         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Ilyzer - Swept SA 50 Q AC 3.265000000 ( ffset 0.5 dB 20.50 dBm data to a set of the data start to a set of the data files to a set of	GHz PNO: Fast IFGain:Low 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE Trig: Free F #Atten: 30 // #Atten: 30 // 5 5 5 5 5 5 5 5 5 5 5 5 5		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1, 23 4 TYPE M WWW Det IP NNN 40 5 GH 381 dB -20.43 c
Reysight Spectrum Ana           RL         RF           enter Freq 13           dB/div         Ref 0           dB/div         Ref 2           29         1           50         1           50         1           50         1           51         1           52         1           53         1           64         N         1           65         1         1           65         1         1         1           66         1         1         1	Ilyzer - Swept SA 50 Q AC 3.265000000 ( ffset 0.5 dB 20.50 dBm data to a set of the data start to a set of the data files to a set of	GHz PNO: Fast IFGain:Low 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE Trig: Free F #Atten: 30 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1, 23 4 TYPE M WWW Det IP NNN 40 5 GH 381 dB -20.43 c
Keysight Spectrum Ana           RL         RF           enter Freq 13           Ref O         dB/div         Ref O           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         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         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Ilyzer - Swept SA 50 Q AC 3.265000000 ( ffset 0.5 dB 20.50 dBm data to a set of the data start to a set of the data files to a set of	GHz PNO: Fast IFGain:Low 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE Trig: Free F #Atten: 30 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1, 23 4 TYPE M WWW Det IP NNN 40 5 GH 381 dB -20.43 c
Reysight Spectrum Ana           RL         RF           enter Freq 13           dB/div         Ref 0           dB/div         Ref 2           29         1           50         1           50         1           50         1           51         1           52         1           53         1           64         N         1           65         1         1           65         1         1         1           66         1         1         1	Ilyzer - Swept SA 50 Q AC 3.265000000 ( ffset 0.5 dB 20.50 dBm data to a set of the data start to a set of the data files to a set of	GHz PNO: Fast IFGain:Low 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE Trig: Free F #Atten: 30 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7		Avg Type: Avg Type: Avg Hold: 1	Log-Pwr 0/10	04:10:0: TF Mkr1 2.4 -4. -4. -5. 	PMaug 29, 21 Made 1, 23 4 TYPE M WWW Det IP NNN 40 5 GH 381 dB -20.43 c

# Tx. Spurious NVNT BLE 1M 2440MHz Ref



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AC						
	SENSE	:PULSE	ALIGN AUTO		04:14:32	2 PM Aug 29, 20
000 GHz	NO: Wide 🗰	Trig: Free Run	Avg Type: I Avg Hold: 1		TF	TYPE MWWW
	Gain:Low	Atten: 40 dB				DET P N N N
				Mki		58 0 GH 137 dB
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			. 1			
					- marine	
					0	4 500 84
	#VBW	300 kHz		#Swee		
			STATUS			
	IS NVNT	BLE 1M 2	480MHz 8	Emissi	on	
	SENSE	:PULSE	ALIGN AUTO		04:14:42	2 PM Aug 29, 20
	NO: Foot	Tria: Free Run			TF	RACE 1 2 3 4 5
	10.1030	Atten: 40 dB				DET P NNNI
3m						400 JD.
		¥.			-7.	428 dBı
					-7.	428 dBı
					-1.	428 dBı
					-1.	428 dBr
					-7.	
					-1.	428 dBr
3 3 4 4	5					
	5			the film of property of the film of pro-		
				de Stidenste gegeneraliste set		
		the production of the second secon			Stop	-19.85 df
						-19.85 df
	#VBW	300 kHz		#Sweep	Stop	-19.85 df
3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#VBW -7.428 dB -34.412 dB	300 KHz		#Sweep	Stop 100.0 ms	-19.85 df
× 2.480 2 GHz 26.477 9 GHz 4.852 0 GHz 7.348 1 GHz	#VBW -7.428 dB -34.412 dB -46.569 dB -45.982 dB	300 kHz FUNCTION m m m		#Sweep	Stop 100.0 ms	-19.85 df
3 4 2.480 2 GHz 2.480 2 GHz 2.487 9 GHz 4.852 0 GHz	#VBW -7.428 dB -34.412 dB -46.569 dB	300 kHz FUNCTION m m m		#Sweep	Stop 100.0 ms	-19.85 df
× 2.480 2 GHz 26.477 9 GHz 4.852 0 GHz 7.348 1 GHz	#VBW -7.428 dB -34.412 dB -46.569 dB -45.982 dB	300 kHz FUNCTION m m m		#Sweep	Stop 100.0 ms	-19.85 df
× 2.480 2 GHz 26.477 9 GHz 4.852 0 GHz 7.348 1 GHz	#VBW -7.428 dB -34.412 dB -46.569 dB -45.982 dB	300 kHz FUNCTION m m m		#Sweep	Stop 100.0 ms	-19.85 df
× 2.480 2 GHz 26.477 9 GHz 4.852 0 GHz 7.348 1 GHz	#VBW -7.428 dB -34.412 dB -46.569 dB -45.982 dB	300 kHz FUNCTION m m m		#Sweep	Stop 100.0 ms	-19.85 df
	AC 0000 GHz F	sm sm sm sm sm sm sm sm sm sm	Sim Sim Sim Sim Sim Sim Sim Sim	Sim Sim Sim Sim Sim Sim Sim Sim	Bin         Image: Sense Pulse         Align Auto         Spurious NVNT BLE 1M 2480MHz Emission         SA         AC         SSpurious NVNT BLE 1M 2480MHz Emission         Avg Type: Log-Pwr Avg Type: Log-Pwr         BB	Span #VBW 300 kHz Span #VBW 300 kHz Span #VBW 300 kHz Span Span #VBW 300 kHz Span #VBW 300 kHz

# Tx. Spurious NVNT BLE 1M 2480MHz Ref



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Keysight Spectrum Analyzer - Swe RL RF 50 Ω	AC	SENSE	E:PULSE	ALIGN AUTO	Log-Pwr	04:16:3	0 PM Aug 29, 20
enter Freq 2.40200	P	NO: Wide ↔ Gain:Low	Trig: Free Run #Atten: 20 dB	Avg Hold:			TYPE MWWW DET P N N N
Ref Offset 0.5 dB/div Ref 10.50 d					Μ	kr1 2.402 -2	150 GH .931 dB
			ľ				
				<b>_</b> ↓ <sup>1</sup>			
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9.5							
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9.5							
enter 2.402000 GHz			k			Span	3.000 MH
Res BW 100 kHz		#VBW	300 kHz		Swee	ep 1.000 m	
a 				STATUS			
	<u> </u>						
		IS NVNT	BLE 2N	1 2402MHz	Emissi	on	
Keysight Spectrum Analyzer - Swe           R L         RF         50 Ω	AC		BLE 2N	ALIGN AUTO		04:17:0	4 PM Aug 29, 20
Keysight Spectrum Analyzer - Swe           R L         RF         50 Ω	apt SA AC 000000 GHz P				: Log-Pwr	04:17:0	4 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P N N N
Keysight Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.2650 Ref Offset 0.5	AC 000000 GHz P For the second	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P N N N 1 02 6 GH
Keysight Spectrum Analyzer - Swe           RL         RF         50 Ω           enter Freq 13.2650         Ref Offset 0.5           0 dB/div         Ref 10.50 c	AC 000000 GHz P For the second	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE M WWW DET P N N N
Keysight Spectrum Analyzer - Swe           RL         RF         50 Ω           enter Freq 13.2650           Ref Offset 0.5           O dB/div         Ref 10.50 c           S00         1	AC 000000 GHz P For the second	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P N N N 1 02 6 GH
RL         RF         50 Ω           enter Freq 13.2650         Ref Offset 0.5           0 dB/div         Ref 10.50 c           9         1           500         1	AC 000000 GHz P For the second	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P N N N 1 02 6 GH
Record         Ref         50 Ω           enter         Freq         13.2650           0         dB/div         Ref         Offset 0.5           0         dB/div         Ref         1           00         0         1         1           0.50         0         1         1           0.50         0         1         1           0.50         0         1         1           0.50         0         1         1           0.50         0         1         1	AC 000000 GHz P For the second	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PMAug 29, 20: RACE 1 2 3 4 5 TYPE MWWW DET P NNN1 02 6 GH 783 dBr
Reconstruction         Ref         50 Ω           enter         Freq         13.2650           0 dB/div         Ref Offset 0.5         0           9 dB/div         Ref 10.50 c         0           9.5         9.5         9.5         9.5	AC 000000 GHz P For the second	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PMAug 29, 20: RACE 1 2 3 4 5 TYPE MWWW DET P NNN1 02 6 GH 783 dBr
Record         Ref         50 Ω           enter         Freq         13.2650           0         dB/div         Ref         0ffset 0.5           0         g         1         1           50         9         1         1           50         9.5         9.5         9.5         9.5	AC P AC P P F F F F F F F F F F F F F	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PMAug 29, 20: RACE 1 2 3 4 5 TYPE MWWW DET P NNN1 02 6 GH 783 dBr
Rejoint Spectrum Analyzer - Swe           RL         RF         50 02           enter Freq 13.26500           Ref Offset 0.5           O dB/div         Ref 10.50 c           9         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1           9.5         1	AC P AC P P F F F F F F F F F F F F F	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0- TI Mkr1 2.4	4 PMAug 29, 20: RACE 1 2 3 4 5 TYPE MWWW DET P NNN1 02 6 GH 783 dBr
Ref Offset 0.5           Ref Offset 0.5           O dB/div           Ref Offset 0.5           So Q           O dB/div           Ref Offset 0.5           So Q           O dB/div           O dV           O dV	AC P AC P P F F F F F F F F F F F F F	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAGE 1 2 3 4 TYPE M WWW DET P NNN 02 6 GH 783 dBr 
Response         Ref         Store           0 dB/div         Ref         0 ffset 0.5           0 dB/div         Ref         10.50 c           0 so         1         1           1 so         1         1           1 so	AC P AC P P F F F F F F F F F F F F F	SENSE	E:PULSE	ALIGN AUTO	: Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAACE 2 3 4 5 THE M WHW DET P NNNT DET P NNNT 02 6 GH 783 dBr 
Rejoint Spectrum Analyzer - Swe           RL         RF         50 02           enter Freq 13.26500         Ref Offset 0.5         0           D dB/div         Ref 0ffset 0.5         0           50 0         9.5         0         1           50 0         9.5         0         1           50 0         9.5         0         1           50 0         9.5         0         1           50 0         0         1         0         1           50 0         0         1         0         1           50 0         0         1         0         1           50 0         0         1         0         1           50 0         0         1         0         1           50 0         0         1         0         1           50 0         0         1         0         1           50 0         0         1         0         1         0           50 0         0         0         0         1         0         1           50 0         0         0         0         0         1         0         1     <	AC P P P P P P P P P P P P P P	SENSE NO: Fast  Gain:Low	Trig: Free Run #Atten: 20 dB	ALIGN AUTO	Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAACE 2 3 4 5 THE M WHW DET P NNNT DET P NNNT 02 6 GH 783 dBr 
Ref Offset 0.5           Ref Offset 0.5           Ref Offset 0.5           O dB/div           Ref Offset 0.5           So 0           O dB/div           So 0           O dB/div           So 0           I           I           I           I           I           I           I           I           I           I           I           I           I           I           I           I           I           I	2.402 6 GHz	SENSE NO: Fast →→ Gain:Low →	Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold:	Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAACE 2 3 4 5 THE M WHW DET P NNNT DET P NNNT 02 6 GH 783 dBr 
Reysight Spectrum Analyzer - Swe           RL         RF         50 @           enter Freq 13.2650         Ref Offset 0.5         Ref 0.50 @           0 dB/div         Ref 0ffset 0.5         Ref 10.50 @           90         0         0         0           91         0         0         0           92         0         0         0         0           93         0         0         0         0           93         0         0         0         0         0           93         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         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	2.402 6 GHz	SENSE NO: Fast Gain:Low Gain:Low 	Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold:	Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAACE 2 3 4 5 THE M WHW DET P NNNT DET P NNNT 02 6 GH 783 dBr 
Ref Offset 0.5           Ref Offset 0.5           Ref Offset 0.5           O dB/div           Ref Offset 0.5           0 dB/div           0 dB/div <tr< td=""><td>EPT SA AC ID00000 GHz IF S dB IBm AC IF IF S dB IBm AC IF IF S dB IBM AC IF IF IF IF IF IF IF IF IF IF IF IF IF</td><td>SENSE NO: Fast →→ Gain:Low → Gain:Low → 4 4 4 4 5 4 4 5 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>Trig: Free Run #Atten: 20 dB</td><td>ALIGN AUTO Avg Type Avg Hold:</td><td>Log-Pwr 10/10</td><td>04:17:0 TI Mkr1 2.4 -2.</td><td>4 PMAUg 29, 20 4 RAACE 2 3 4 5 THE M WHW DET P NNNT DET P NNNT 02 6 GH 783 dBr </td></tr<>	EPT SA AC ID00000 GHz IF S dB IBm AC IF IF S dB IBm AC IF IF S dB IBM AC IF IF IF IF IF IF IF IF IF IF IF IF IF	SENSE NO: Fast →→ Gain:Low → Gain:Low → 4 4 4 4 5 4 4 5 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold:	Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAACE 2 3 4 5 THE M WHW DET P NNNT DET P NNNT 02 6 GH 783 dBr 
Ref Offset 0.5           Ref Offset 0.5           OdB/div         Ref Offset 0.5           0         dB/div         Ref 10.50 c           0         0         1         0           0.0         0         1         0           0.0         0         1         0           0.0         0         1         0           0.0         0         1         0           0.0         0         0         1         0           0.0         0         0         1         0           9.5         0         0         0         0         0           9.5         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         0         0         0         0         0         0 <td< td=""><td>EPT SA AC ID00000 GHz IF S dB IBm AC IF IF S dB IBm AC IF IF S dB IBM AC IF IF IF IF IF IF IF IF IF IF IF IF IF</td><td>SENSE NO: Fast →→ Gain:Low → Gain:Low → 4 4 4 4 5 4 4 5 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>Trig: Free Run #Atten: 20 dB</td><td>ALIGN AUTO Avg Type Avg Hold:</td><td>Log-Pwr 10/10</td><td>04:17:0 TI Mkr1 2.4 -2.</td><td>4 PMAUg 29, 20 4 RAGE 2 3 4 TYPE M WWW DET P NNN DET P NNN DET P NN DET P N</td></td<>	EPT SA AC ID00000 GHz IF S dB IBm AC IF IF S dB IBm AC IF IF S dB IBM AC IF IF IF IF IF IF IF IF IF IF IF IF IF	SENSE NO: Fast →→ Gain:Low → Gain:Low → 4 4 4 4 5 4 4 5 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold:	Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAGE 2 3 4 TYPE M WWW DET P NNN DET P NNN DET P NN DET P N
Keysight Spectrum Analyzer - Swe           RL         RF         50 @           enter Freq 13.2650         Ref Offset 0.5         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"           Colspan="2">Colspan="2">Colspan="2"           So         So <td>EPT SA AC ID00000 GHz IF S dB IBm AC IF IF S dB IBm AC IF IF S dB IBM AC IF IF IF IF IF IF IF IF IF IF IF IF IF</td> <td>SENSE NO: Fast →→ Gain:Low → Gain:Low → 4 4 4 4 5 4 4 5 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>Trig: Free Run #Atten: 20 dB</td> <td>ALIGN AUTO Avg Type Avg Hold:</td> <td>Log-Pwr 10/10</td> <td>04:17:0 TI Mkr1 2.4 -2.</td> <td>4 PMAUg 29, 20 4 RAGE 2 3 4 TYPE M WWW DET P NNN DET P NNN DET P NN DET P N</td>	EPT SA AC ID00000 GHz IF S dB IBm AC IF IF S dB IBm AC IF IF S dB IBM AC IF IF IF IF IF IF IF IF IF IF IF IF IF	SENSE NO: Fast →→ Gain:Low → Gain:Low → 4 4 4 4 5 4 4 5 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold:	Log-Pwr 10/10	04:17:0 TI Mkr1 2.4 -2.	4 PMAUg 29, 20 4 RAGE 2 3 4 TYPE M WWW DET P NNN DET P NNN DET P NN DET P N

# Tx. Spurious NVNT BLE 2M 2402MHz Ref



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RL	RF 50 Ω	AC 0000 GHz P		:PULSE Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type: Avg Hold: 1	00/100	٦	51 PM Aug 29, 20 FRACE 1 2 3 4 5 TYPE M WWW DET P N N N
0 dB/div	Ref Offset 0.5 d Ref 10.50 dB					N	1kr1 2.440 -2	0 099 GH 2.024 dBr
.og								
.500				<b>•</b>				
9.50		m	man	www.www.h	man who	M		
0.00	www	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				A. Norwa	My -	
19.5	mN						- Con Marine	<b>W</b>
29.5	- Marine - M							WY W
1	1							- M
39.5								
49.5								
59.5								
19.0								
69.5								
79.5								
enter 2.	440000 GHz			k			Spar	n 3.000 MF
Res BW	100 kHz		#VBW	300 kHz		Swee	ep 1.000 m	
			us NVNT	BLE 2M	status 2440MHz I		on	
Keysight Sp R L	ectrum Analyzer - Swept	AC 0000 GHz	SENSE PNO: Fast ↔	:PULSE		Emissi	04:21:2	26 PM Aug 29, 202 RACE 1 2 3 4 5 TYPE M WWW
Keysight Sp R L	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz	SENSE	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PM Aug 29, 202 TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN 40 5 GH
Keysight Sp RL Center F 0 dB/div	RF 50 Ω	AC 0000 GHz	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PM Aug 29, 202 TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN 40 5 GH
Keysight Sp RL Center F	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PM Aug 29, 202 TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN 40 5 GH
Center F	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PMAug 29, 202 TRACE    2 3 4 5 TYPE MWWW DET P NNN 140 5 GH .398 dBr
RL	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PMAug 29, 202 TRACE    2 3 4 5 TYPE MWWW DET P NNN 140 5 GH .398 dBr
Center F	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz F	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PMAug 29, 202 TRACE    2 3 4 5 TYPE MWWW DET PNNN 140 5 GH .398 dBn
CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div CodB/div Cod	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PMAug 29, 202 TRACE    2 3 4 5 TYPE MWWW DET PNNN 140 5 GH .398 dBn
Keysight Sp     R     R     Center F	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz F	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PM Aug 29, 202 TRACE 1 2 3 4 5 TYPE M WWWW 140 5 GH .398 dBn 22.02 dB
Keysight Sp           @ RL           Center F           0 cB/div           0 s           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50           9 50	RF 50 Ω <b>req 13.26500</b> <b>Ref Offset 0.5 c</b>	AC 0000 GHz F	SENSE PNO: Fast ↔	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi	04:21:: Mkr1 2.4	26 PMAug 29, 202 TRACE    2 3 4 5 TYPE MWWW DET PNNN 140 5 GH .398 dBn
Keysight Sp     RL     Center F	RF 50 Ω Freq 13.26500 Ref Offset 0.5 c Ref 10.50 dE	AC 0000 GHz F	SENSE SOUTING SEALS SENSE SOUTING SEALS SEALS SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE SENSE S	:PULSE	2440MHz I ALIGN AUTO Avg Type:	Emissi .og-Pwr 0/10	04:21:2 Mkr1 2.4 -3	22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.
Keysight Sp     RL      Center F      0 dB/div      0 g      0 dB/div      0 g      0 dB/div      0 g      0 dB/div      0 g      0 dB/div      0 dB/di	RF         50 Ω           Ref Offset 0.5 c         Ref 10.50 dE           1         1           3 GHz         100 kHz	x	SENSE SOUTING Fast →→ Gain:Low →	PULSE Trig: Free Run #Atten: 20 dB	2440MHz I ALIGN AUTO Avg Type:	Emissi .og-Pwr 0/10 Swe	04:21:2 Mkr1 2.4 -3	22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.
Keysight Sp     RL      Center F      Center F      Center F      Second S	RF         50 Ω           req         13.26500           Ref Offset 0.5 c         Ref 10.50 dE           1         1           3 GHz         100 KHz           1         1	AC 0000 GHz F F IB 3m 2.440 5 GHz 4.881 1 GHz	SENSE PNO: Fast → -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -	PULSE Trig: Free Run #Atten: 20 dB	2440MHz I	Emissi .og-Pwr 0/10 Swe	04:21:2 Mkr1 2.4 -3	22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.
Keysight Sp @ RL           Center F           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	RF         50 Ω           Treq         13.26500           Ref Offset 0.5 c         Ref 10.50 dE           1         1           3 GHz         (           1         f           1         f           1         f           1         f	AC 0000 GHz 1 100000 GHz 1 18 37 37 2 4 4 4 4 4 881 1 GHz 4.881 1 GHz 4.881 1 GHz 7.319 0 GHz	SENSE PNO: Fast -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Ga	PULSE Trig: Free Run #Atten: 20 dB 300 kHz FUNCTION m m	2440MHz I	Emissi .og-Pwr 0/10 Swe	04:21:2 Mkr1 2.4 -3	22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.
Center F 0 dB/div 9 g 10 dB/div 9 dB 10 dB 10 dB/div 10 dB 10 dB	RF         50 Ω           Treq         13.26500           Ref Offset 0.5 c         Ref 10.50 dE           1         1           3 GHz         100 kHz           FG 502         1	AC 00000 GHz 1 100000 GHz 1 18 3m 2.440 5 GHz 4.8811 GHz 4.8811 GHz	SENSE PNO: Fast -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Gain:Low -Ga	PULSE Trig: Free Run #Atten: 20 dB 300 kHz FUNCTION m m	2440MHz I	Emissi .og-Pwr 0/10 Swe	04:21:2 Mkr1 2.4 -3	22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.48 22.02.
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# Tx. Spurious NVNT BLE 2M 2440MHz Ref



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Keysight Spectrum Analyzer - S RL RF 50 anter Freq 2.4800	Ω AC D00000 GHz P	NO: Wide ↔ FGain:Low	ISE:PULSE Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	00/100	٦	PM Aug 29, 20 RACE 1 2 3 4 TYPE M WWW DET P N N N
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Keysight Spectrum Analyzer - S R L RF 50	Swept SA Ω AC		T BLE 2N	ALIGN AUTO		04:23:	39 PM Aug 29, 20
Keysight Spectrum Analyzer - 5 R L RF 50	Swept SA Ω AC 5000000 GHz	SEN PNO: Fast ↔	ISE:PULSE	1 2480MHz E	.og-Pwr	04:23:	39 PM Aug 29, 20 RACE 1 2 3 4 5
Keysight Spectrum Analyzer - S RL RF 50 enter Freq 13.265	Swept SA Ω AC     5000000 GHz IF	SEN	ISE:PULSE	ALIGN AUTO AVIG TYPE: L	.og-Pwr	04:23:	39 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P N N N
Keysight Spectrum Analyzer - 5 RL RF 50 enter Freq 13.265 Ref Offset 0 dB/div Ref 10.50	Swept SA Ω AC 5000000 GHz F IF 0.5 dB	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO AVIG TYPE: L	.og-Pwr	04:23:: Mkr1 2.4	39 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 79 4 GH
Keysight Spectrum Analyzer - 5           RL         RF         50           enter Freq 13.265           Ref Offset 0           BdB/div         Ref 0.000           29         A1	Swept SA Ω AC 5000000 GHz F IF 0.5 dB	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO AVIG TYPE: L	.og-Pwr	04:23:: Mkr1 2.4	39 РМаид 29, 20 RACE   2.3.4.5 тутеЕ   Мала 4.5 тутеЕ   Ала 4.5 тутеЕ   Ала 4.5 рет Р NNNN 179 4 GH .447 dBr
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Keysight Spectrum Analyzer - 5           RL         RF         50           enter Freq 13.265           Ref Offset           0 dB/div         Ref 10.50           9         0         1           50         9.5         1	Swept SA Ω AC 5000000 GHz F IF 0.5 dB	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO AVIG TYPE: L	.og-Pwr	04:23:: Mkr1 2.4	39 PM Aug 29, 202 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 79 4 GH
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Rejoint Spectrum Analyzer - 5           RL         RF         50           Enter Freq 13.265           Ref Offset ( Ref 0ffset )           0         0         1           0         0         1           0         0         1           0         0         1           0         0         1           0         0         1           0         0         1           0         0         1           0         0         1           0         0         1           0         0         2	Swept SA Ω AC 5000000 GHz F IF 0.5 dB	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO AVIG TYPE: L	.og-Pwr	04:23:: Mkr1 2.4	39 PM Aug 29, 202 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 79 4 GH
Resignt Spectrum Analyzer - 1         S0           RL         RF         50           enter Freq 13.265         S0           dB/div         Ref Offset ( Ref 10.50           9         ↓1           50         ↓2           51         ↓2           52         ↓2           53         ↓2           54         ↓2	Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO Avg Type: L Avg Hold: 11	.og-Pwr j/10	04:23:: Mkr1 2.4	39 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 79 4 GH
Resignt Spectrum Analyzer - 1         S0           RL         RF         50           enter Freq 13.265         S0           dB/div         Ref Offset 0           dB/div         Ref 10.50           9         1           50         1           50         1           50         2           51         2           52         2           53         2           54         2           55         2           56         2           57         2           58         2           59         2	Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO Avg Type: L Avg Hold: 11	.og-Pwr	04:23:: Mkr1 2.4	39 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 79 4 GH
Keysight Spectrum Analyzer - 1           RL         RF         50           Ref Offset 0           Colspan="2">Ref Offset 0           dB/div         Ref 0ffset 0           99         1         50           95         9         1         50           9.5         9.5         9         1         50           9.5         9.5         9.5         9         9         9         1         9         9         9         1         9         9         9         1         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9	Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO Avg Type: L Avg Hold: 11	.og-Pwr j/10	04:23:: Mkr1 2.4	39 PM Aug 29, 20 RACE 1 2 3 4 5 TYPE MWWW DET P NNN 79 4 GH
Rejoint Spectrum Analyzer - 1           RL         RF         50           Ref Offset 0           O dB/div         Ref Offset 0           0         0         1         1           50         0         1         1         1           50         0         1         1         1         1           50         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm	SEN PNO: Fast ↔	ISE:PULSE	ALIGN AUTO Avg Type: L Avg Hold: 11	.og-Pwr j/10	04:23: Mkr1 2.4 -3	39 PM Aug 29, 20, RACE 1 2, 3,4 5 TYPE M WWWW DET P NNNH <b>179 4 GH</b> .447 dBr 
Rejoint Spectrum Analyzer - 1           RL         RF         50           Ref Offset 0           O dE/div         Ref Offset 0           90         1         1           50         1         1           50         1         1           50         1         1           50         1         1           50         1         1           50         1         1           50         2         1           50         2         2           51         2         2           52         2         2           53         2         2           54         2         2           55         2         2           56         3         3           57         3         3           58         3         3           59.5         3         3           59.5         3         3           59.5         3         3           59.6         3         3           59.7         3         3           59.8         3 <td>Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm</td> <td>SEN FGain:Low →</td> <td>ISE:PULSE</td> <td>ALIGN AUTO Avg Type: L Avg Hold: 11</td> <td>og-Pwr //10</td> <td>04:23: Mkr1 2.4 -3</td> <td>39 PM Aug 29, 20, RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr 21.83 dF 21.83 dF 21.83 dF</td>	Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm	SEN FGain:Low →	ISE:PULSE	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23: Mkr1 2.4 -3	39 PM Aug 29, 20, RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr 21.83 dF 21.83 dF 21.83 dF
Recipient Spectrum Analyzer - 3         Ref         Some context of the system of the s	Swept SA $\Omega$ AC 50000000 GHz F 0.5 dB 0 dBm 4 4 4	SEN FGain:Low → FGain:Low	AT 300 KHz	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23: Mkr1 2.4 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	39 PM Aug 29, 20; RACE 1 2 3 4 5 TYPE M WWW DET P NNN 179 4 GH .447 dBr -21.83 dE -21.83 dE
Keysight Spectrum Analyzer - 1           RL         RF         50           Ref Offset 0           O dB/div         Ref 10.50           90         0         1         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         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         0         0         0         0         0         0         0         0         0         0         0         0	Swept SA	SEN FGain:Low	VSE:PULSE Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23:2 Mkr1 2.4 -3	39 PM Aug 29, 20; RACE 1 2 3 4 5 TYPE M WWW DET P NNN 179 4 GH .447 dBr -21.83 dE -21.83 dE
Rejoint Spectrum Analyzer - 1           RL         RF         50           enter Freq 13.265         So         So           OdB/div         Ref Offset 0         So         So           9.5	Swept SA 2 AC 50000000 GHz F 0.5 dB 0 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	SEP PNO: Fast → FGain:Low #VB #VB 45.896 -50.798	AV 300 kHz	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23:2 Mkr1 2.4 -3	39 PM Aug 29, 20; RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr -21.63 dE -21.63 dE
Ref Offset 0           RL         RF         S0           enter Freq 13.265         S0         S0           0 dB/div         Ref 0ffset 0         1         1           0 dB/div         Ref 10.50         9         1         1           0 dB/div         Ref 0ffset 0         1         1         1         1           0 dB/div         Ref 0ffset 0         9         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Swept SA Ω AC 5000000 GHz F 0.5 dB 0 dBm 4 2.479 4 GHz 1.728 5 GHz 4.961 4 GHz	SEP PNO: Fast → FGain:Low #VB #VB 45.896 -50.798	AV 300 kHz	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23:2 Mkr1 2.4 -3	39 PM Aug 29, 20; RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr -21.63 dE -21.63 dE
Keysight Spectrum Analyzer - 1           RL         RF         50           Ref Offset 0           OdB/div         Ref Offset 0           0         dB/div         Ref 10.50         org           300         1         1         1         1           50         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5         9.5	Swept SA 2 AC 50000000 GHz F 0.5 dB 0 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	SEP PNO: Fast → FGain:Low #VB #VB 45.896 -50.798	AV 300 kHz	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23:2 Mkr1 2.4 -3	39 PM Aug 29, 20, RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr 21.83 dF 21.83 dF 21.83 dF
Keysight Spectrum Analyzer - 1           RL         RF         50           Enter Freq 13.265         Set         10           00         BE/div         Ref Offset 0           00         0         1         10           00         0         0         1         10           00         0         0         0         1         1           00         0.03 GHz         Res BW 100 kHz         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th="">         1         1         &lt;</th1<>	Swept SA 2 AC 50000000 GHz F 0.5 dB 0 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	SEP PNO: Fast → FGain:Low #VB #VB 45.896 -50.798	AV 300 kHz	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23:2 Mkr1 2.4 -3	39 PM Aug 29, 20, RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr 21.83 dF 21.83 dF 21.83 dF
Keysight Spectrum Analyzer - 1           RL         RF         50           Enter Freq 13.265         S0           IdB/div         Ref Offset 0           IdB/div         Ref 10.50           IdB/div	Swept SA 2 AC 50000000 GHz F 0.5 dB 0 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	SEP PNO: Fast → FGain:Low #VB #VB 45.896 -50.798	AV 300 kHz	ALIGN AUTO Avg Type: L Avg Hold: 11	og-Pwr //10	04:23:2 Mkr1 2.4 -3	39 PM Aug 29, 20; RACE 11 2 3 4 5 TYPE IM WWW DET P NNN 179 4 GH .447 dBr -21.63 dE -21.63 dE

# Tx. Spurious NVNT BLE 2M 2480MHz Ref



# APPENDIX 2- EUT TEST PHOTO

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

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Shenzhen STS Test Services Co., Ltd.