RF TEST REPORT

Product Name: Smart Phone

Model Name: K17, C35

FCC ID: R38YLCPK17

Issued For	:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd Floor 21, Block A, Coolpad Building, Nanshan District, Shenzhen, China
Issued By	:	Shenzhen LGT Test Service Co., Ltd. Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT25B037RF04
Sample Received Date:	Feb. 14, 2025
Date of Test:	Feb. 14, 2025 ~ Mar. 08, 2025
Date of Issue:	Mar. 17, 2025

TEST REPORT CERTIFICATION

Applicant:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address:	Floor 21, Block A, Coolpad Building, Nanshan District, Shenzhen, China
Manufacturer:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address:	Floor 21, Block A, Coolpad Building, Nanshan District, Shenzhen, China
Product Name:	Smart Phone
Trademark:	coolpad
Model Name:	K17, C35
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.407, Subpart E ANSI C63.10-2013	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

Table of Contents **Page**

Table of Contents **Page**

Revision History

Rev.	Issue Date	Contents
00	Mar. 17, 2025	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
Part 15.407,KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	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.

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB
9	Bandwidth	±10.40KHz
10	PSD	±1.5734dB

Note: The measurement uncertainty is not included in the test result.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name:</td><td>Smart Phone</td></tr>
<tr><td>Trademark:</td><td>coolpad</td></tr>
<tr><td>Model Name:</td><td>K17</td></tr>
<tr><td>Series Model:</td><td>C35</td></tr>
<tr><td>Model Difference:</td><td>Only difference in model name.</td></tr>
<tr><td>Product Description:</td><td>
<table>
<tr><td rowspan="3">Operation Frequency:</td><td>IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz
IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz
IEEE 802.11ac(VHT80): 5.210GHz</td></tr>
<tr><td>IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz
IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz
IEEE 802.11ac(VHT80): 5.290GHz</td></tr>
<tr><td>I IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz
IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz
IEEE 802.11ac(VHT80): 5.775GHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM
802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM
802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</td></tr>
<tr><td>Antenna Designation:</td><td>FPC Antenna</td></tr>
<tr><td>Antenna Gain(dBi)</td><td>-0.08</td></tr>
</table>
More details of EUT technical specification, please refer to the User Manual.
</td></tr>
<tr><td>Test Channel:</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Adapter:</td><td>Input: 100-240V 50/60Hz 0.5A Max
Output: 5V 3A, 9V 2A, 12V 1.5A</td></tr>
<tr><td>Battery:</td><td>Capacity: 4900mAh
Rated Voltage: 3.85V</td></tr>
<tr><td>Hardware Version:</td><td>V1.0</td></tr>
<tr><td>Software Version:</td><td>K17.250210.0S.LAN</td></tr>
<tr><td>Connecting I/O Port(s):</td><td>Please refer to the Note 1.</td></tr>
</table>

Note

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

3.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.260GHz-5.320GHz	
Channel	Frequency	Channel	Frequency
36	5180	52	5260
38	5190	54	5270
40	5200	56	5280
42	5210	58	5290
44	5220	60	5300
46	5230	62	5310
48	5240	64	5320
--		5.745GHz-5.825GHz	
--	--	Channel	Frequency
--	--	149	5745
--	--	151	5755
--	--	153	5765
--	--	157	5785
--	--	159	5795
--	--	161	5805
--	--	165	5825
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Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

Channel List for 802.11a/n/ac(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	149	5745	--	--
40	5200	60	5300	157	5785	--	--
48	5240	64	5320	165	5825	--	--

Channel List for 802.11n/ac(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	151	5755	--	--
46	5230	62	5310	159	5795	--	--
--	--	--	--	--	--	--	--

Channel List for 802.11ac(80MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	155	5775	--	--
--	--	--	--	--	--	--	--

2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 4	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 5	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 6	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 7	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 8	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 9	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 10	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 11	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 12	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 13	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 14	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 15	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 16	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 17	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 18	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

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

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

(3) 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.

(4) The battery is fully-charged during the radited and RF conducted test.

(5) All 20M,40M bandwidth modes have been tested, and the report only shown the worst mode data

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 19: TX Mode

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.

Test software Version	Test program: 5G WIFI B1	
Engineering Mode	Mode Or Modulation type	Power setting
	a	12
	n20	11
	n40	11
	ac20	11
	ac40	11
	ac80	11
Test software Version	Test program: 5G WIFI B2	
Engineering Mode	Mode Or Modulation type	Power setting
	a	12
	n20	11
	n40	11
	ac20	11
	ac40	11
	ac80	11
Test software Version	Test program: 5G WIFI B4	
Engineering Mode	Mode Or Modulation type	Power setting
	a	11
	n20	11
	n40	11
	ac20	11
	ac40	11
	ac80	11

2.4 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	coolpad	WS ~ D052	N/A	Input: 100-240V 50/60Hz 0.5A Max Output: 5V 3A, 9V 2A, 12V 1.5A
USB-C to USB-C Cable	N/A	N/A	N/A	1m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A
Earphone	VESAFE	39630078	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

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

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

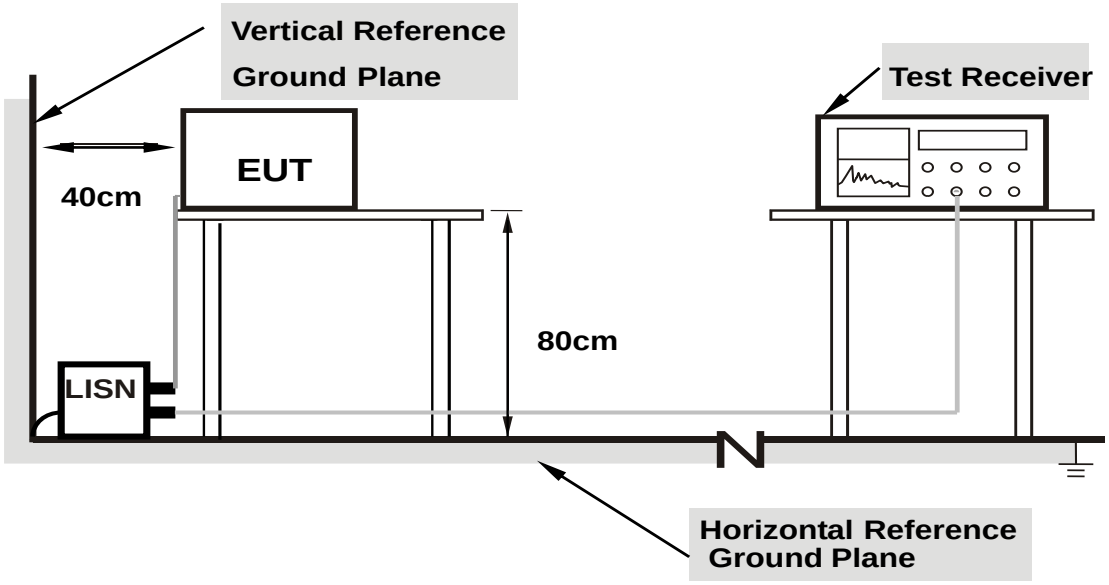
3.1.2 TEST PROCEDURE

a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN is at least 80 cm from the nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

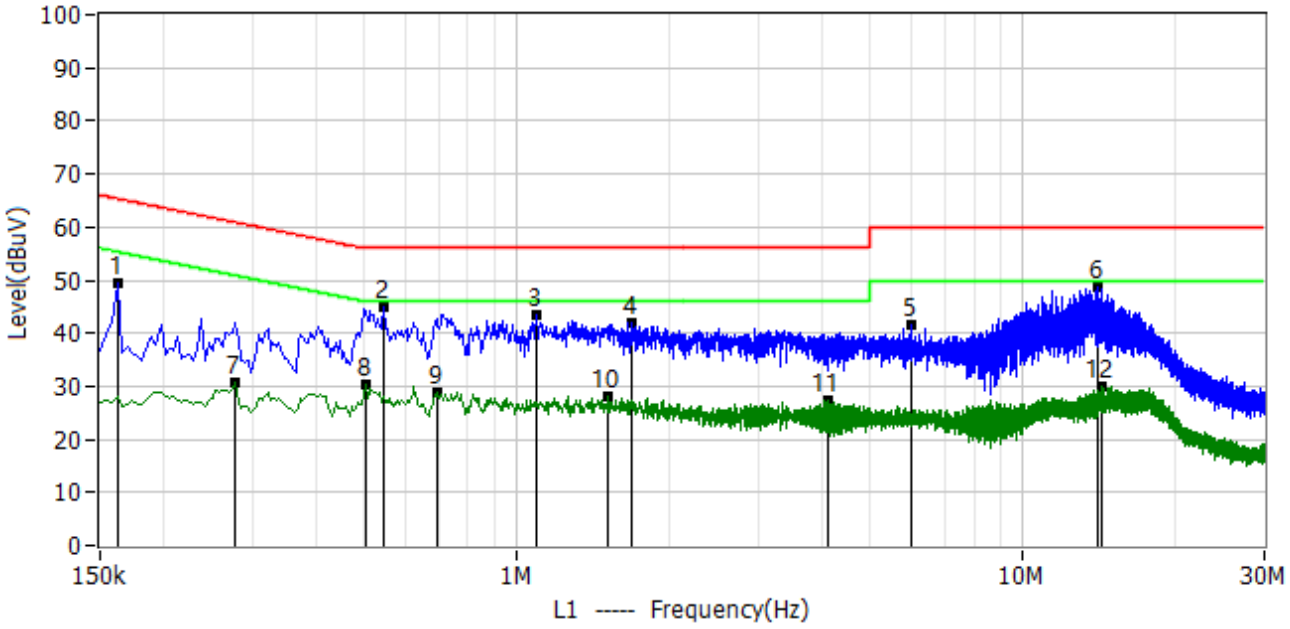
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.5 EUT OPERATING CONDITIONS

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

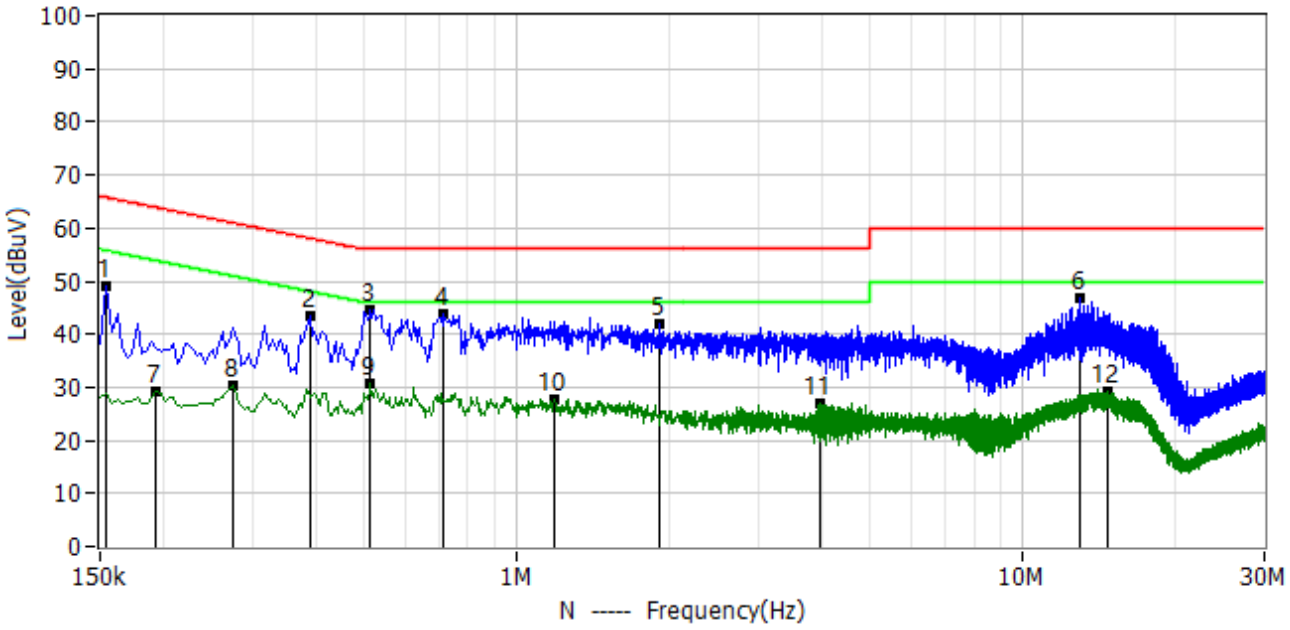
3.1.6 TEST RESULTS

Project: LGT25B037	Test Engineer: LiuH
EUT: Smart Phone	Temperature: 19.4℃
M/N: K17	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-02-17
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	39.01	10.59	49.60	65.36	-15.76	QP	L1
2*	0.546	34.33	10.57	44.90	56.00	-11.10	QP	L1
3*	1.094	32.64	10.72	43.36	56.00	-12.64	QP	L1
4*	1.682	31.21	10.89	42.10	56.00	-13.90	QP	L1
5*	6.014	30.70	11.04	41.74	60.00	-18.26	QP	L1
6*	14.050	37.43	11.32	48.75	60.00	-11.25	QP	L1
7*	0.278	20.21	10.59	30.80	50.88	-20.07	AV	L1
8*	0.502	19.84	10.57	30.41	46.00	-15.59	AV	L1
9*	0.694	18.36	10.57	28.93	46.00	-17.07	AV	L1
10*	1.514	17.29	10.84	28.13	46.00	-17.87	AV	L1
11*	4.102	16.22	11.13	27.35	46.00	-18.65	AV	L1
12*	14.250	18.73	11.33	30.06	50.00	-19.94	AV	L1

Project: LGT25B037	Test Engineer: LiuH
EUT: Smart Phone	Temperature: 19.4℃
M/N: K17	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-02-17
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.154	38.58	10.57	49.15	65.78	-16.63	QP	N
2*	0.390	33.04	10.59	43.63	58.06	-14.44	QP	N
3*	0.514	33.99	10.54	44.53	56.00	-11.47	QP	N
4*	0.718	33.33	10.56	43.89	56.00	-12.11	QP	N
5*	1.910	31.05	10.74	41.79	56.00	-14.21	QP	N
6*	12.946	35.68	11.22	46.90	60.00	-13.10	QP	N
7*	0.194	18.52	10.56	29.08	53.86	-24.78	AV	N
8*	0.274	19.94	10.58	30.52	51.00	-20.47	AV	N
9*	0.514	20.07	10.54	30.61	46.00	-15.39	AV	N
10*	1.186	17.29	10.58	27.87	46.00	-18.13	AV	N
11*	3.978	16.27	10.81	27.08	46.00	-18.92	AV	N
12*	14.694	17.97	11.36	29.33	50.00	-20.67	AV	N

3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

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

(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			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.

LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

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

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

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

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

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

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

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

3.2.2 TEST PROCEDURE

a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

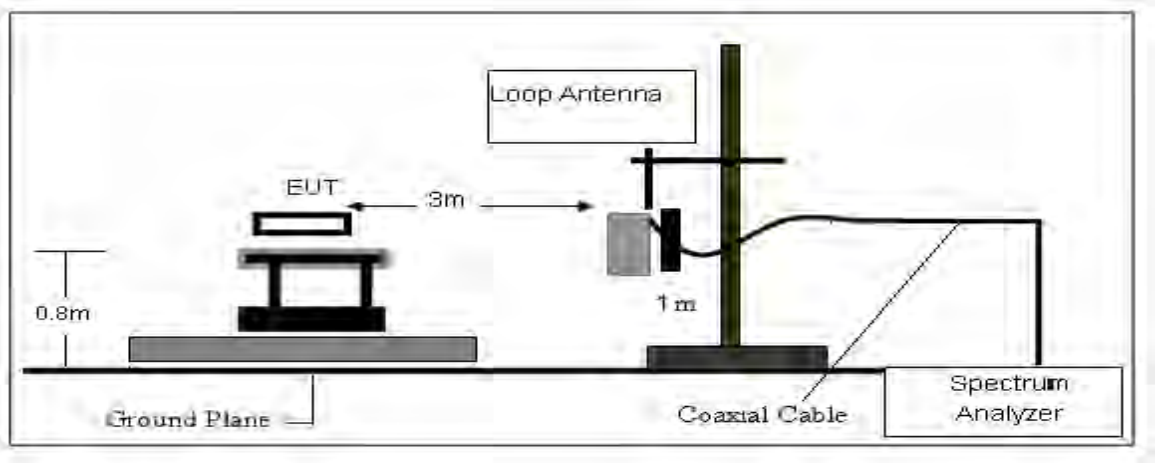
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

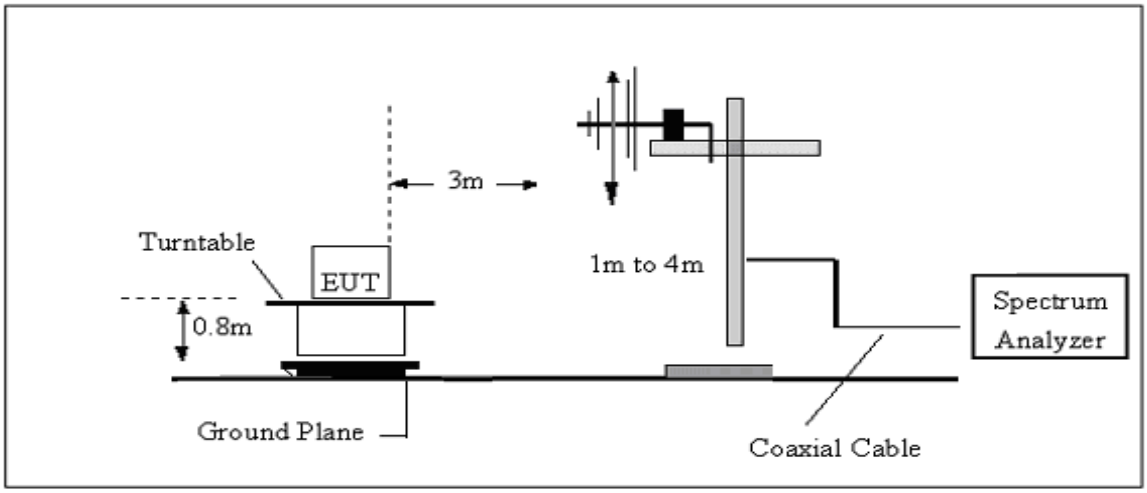
No deviation

3.2.3 TEST SETUP

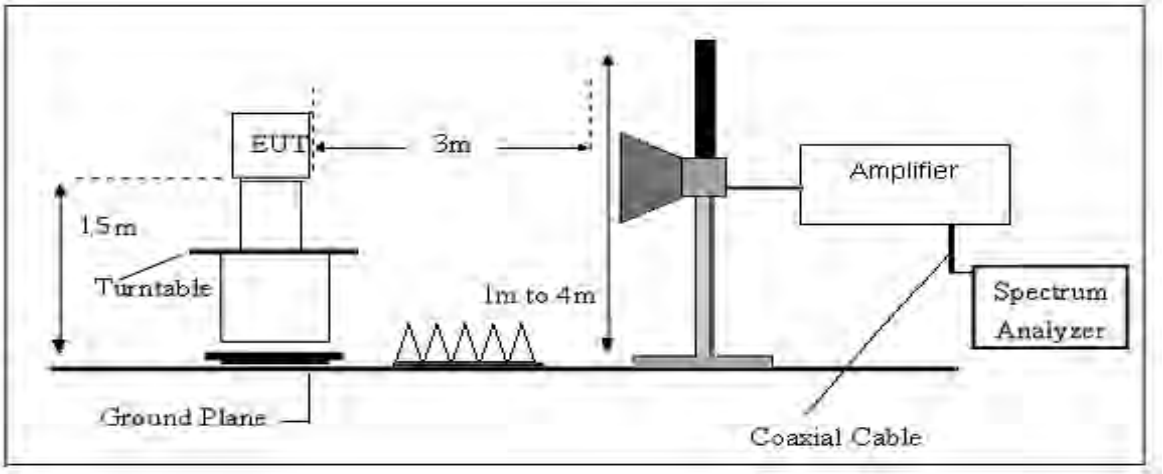
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

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

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

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

Factor=AF+CL-AG

3.2.6 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

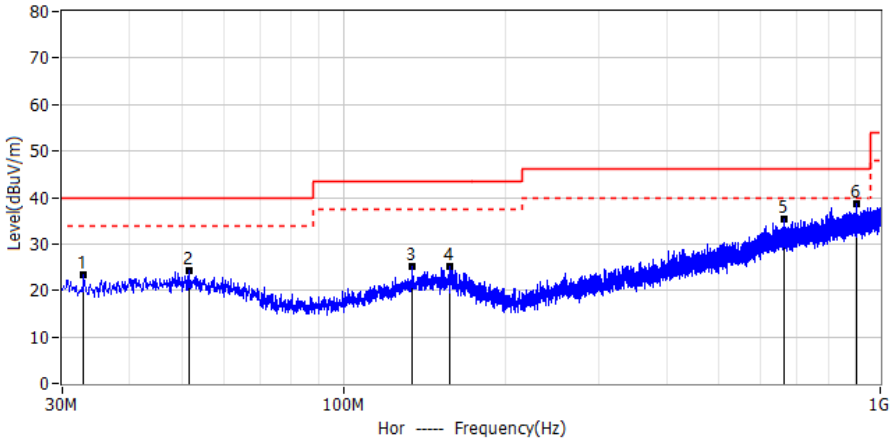
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

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

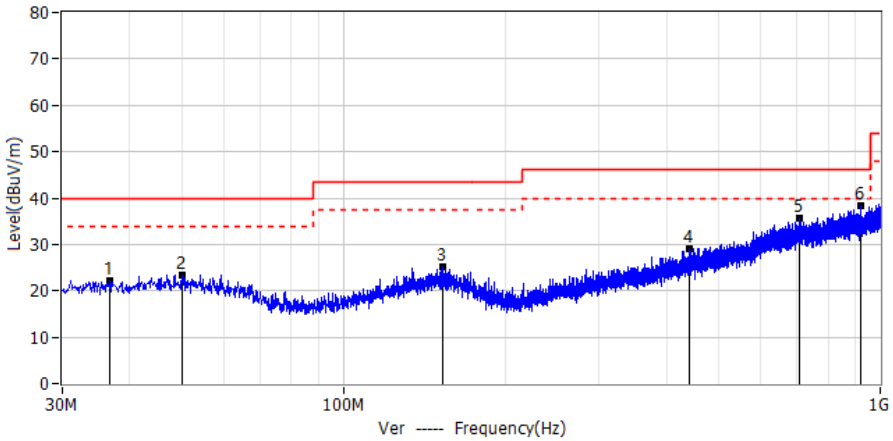
Limit line = specific limits (dBuV) + distance extrapolation factor.

Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT25B037	Test Engineer: LiuH
EUT: Smart Phone	Temperature: 24℃
M/N: K17	Humidity: 46%RH
Test Voltage: Battery	Test Data: 2025-02-25
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	32.910	3.97	19.50	23.47	40.00	-16.53	QP	Hor
2*	51.583	3.74	20.50	24.24	40.00	-15.76	QP	Hor
3*	134.396	4.47	20.66	25.13	43.50	-18.37	QP	Hor
4*	157.798	3.39	21.69	25.08	43.50	-18.42	QP	Hor
5*	663.531	5.70	29.71	35.41	46.00	-10.59	QP	Hor
6*	902.394	5.44	33.14	38.58	46.00	-7.42	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	36.790	2.43	19.88	22.31	40.00	-17.69	QP	Ver
2*	50.006	2.96	20.36	23.32	40.00	-16.68	QP	Ver
3*	153.675	3.39	21.64	25.03	43.50	-18.47	QP	Ver
4*	442.250	3.27	25.80	29.07	46.00	-16.93	QP	Ver
5*	706.696	5.15	30.63	35.78	46.00	-10.22	QP	Ver
6*	919.126	5.07	33.28	38.35	46.00	-7.65	QP	Ver

Results of Radiated Emissions (Above 1000MHz)

Band I(5.15-5.25) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5180 MHz)							
3996.62	52.12	-6.89	45.23	74.00	-28.77	PK	Vertical
3996.62	42.92	-6.89	36.03	54.00	-17.97	AV	Vertical
3991.33	52.20	-6.89	45.31	74.00	-28.69	PK	Horizontal
3991.33	42.19	-6.89	35.30	54.00	-18.70	AV	Horizontal
8912.42	53.70	-3.80	49.90	68.20	-18.30	PK	Vertical
8912.42	44.06	-3.80	40.26	54.00	-13.74	AV	Vertical
8912.25	53.85	-3.80	50.05	68.20	-18.15	PK	Horizontal
8912.25	43.31	-3.80	39.51	54.00	-14.49	AV	Horizontal
10360.11	55.81	-2.92	52.89	68.20	-15.31	PK	Vertical
10360.11	45.48	-2.92	42.56	54.00	-11.44	AV	Vertical
10360.31	56.32	-2.92	53.40	68.20	-14.80	PK	Horizontal
10360.31	44.53	-2.92	41.61	54.00	-12.39	AV	Horizontal
13294.70	53.89	-0.67	53.22	74.00	-20.78	PK	Vertical
13294.70	44.72	-0.67	44.05	54.00	-9.95	AV	Vertical
13280.36	53.57	-0.67	52.90	74.00	-21.10	PK	Horizontal
13280.36	44.84	-0.67	44.17	54.00	-9.83	AV	Horizontal
Mid Channel (802.11/ 5200 MHz)							
3986.28	52.53	-6.89	45.64	74.00	-28.36	PK	Vertical
3986.28	42.34	-6.89	35.45	54.00	-18.55	AV	Vertical
3996.64	53.12	-6.89	46.23	74.00	-27.77	PK	Horizontal
3996.64	43.17	-6.89	36.28	54.00	-17.72	AV	Horizontal
7220.02	53.76	-3.80	49.96	68.20	-18.24	PK	Vertical
7220.02	43.67	-3.80	39.87	54.00	-14.13	AV	Vertical
7216.52	54.29	-3.80	50.49	68.20	-17.71	PK	Horizontal
7216.52	43.81	-3.80	40.01	54.00	-13.99	AV	Horizontal
10400.27	55.60	-2.92	52.68	68.20	-15.52	PK	Vertical
10400.27	44.76	-2.92	41.84	54.00	-12.16	AV	Vertical
10400.11	56.00	-2.92	53.08	68.20	-15.12	PK	Horizontal
10400.11	44.91	-2.92	41.99	54.00	-12.01	AV	Horizontal
13298.54	54.66	-0.67	53.99	74.00	-20.01	PK	Vertical
13298.54	43.53	-0.67	42.86	54.00	-11.14	AV	Vertical
13294.52	54.31	-0.67	53.64	74.00	-20.36	PK	Horizontal
13294.52	44.10	-0.67	43.43	54.00	-10.57	AV	Horizontal
High Channel (802.11/ 5240 MHz)							
3985.85	53.04	-6.89	46.15	74.00	-27.85	PK	Vertical
3985.85	42.54	-6.89	35.65	54.00	-18.35	AV	Vertical
3990.27	52.72	-6.89	45.83	74.00	-28.17	PK	Horizontal
3990.27	42.94	-6.89	36.05	54.00	-17.95	AV	Horizontal
7227.18	53.80	-3.80	50.00	68.20	-18.20	PK	Vertical
7227.18	43.51	-3.80	39.71	54.00	-14.29	AV	Vertical
7234.43	53.84	-3.80	50.04	68.20	-18.16	PK	Horizontal
7234.43	43.83	-3.80	40.03	54.00	-13.97	AV	Horizontal
10480.35	56.46	-2.92	53.54	68.20	-14.66	PK	Vertical
10480.35	45.30	-2.92	42.38	54.00	-11.62	AV	Vertical
10480.07	55.42	-2.92	52.50	68.20	-15.70	PK	Horizontal
10480.07	44.64	-2.92	41.72	54.00	-12.28	AV	Horizontal
13289.83	54.58	-0.67	53.91	74.00	-20.09	PK	Vertical
13289.83	43.58	-0.67	42.91	54.00	-11.09	AV	Vertical
13287.86	53.77	-0.67	53.10	74.00	-20.90	PK	Horizontal
13287.86	44.80	-0.67	44.13	54.00	-9.87	AV	Horizontal

Band II(5.25-5.35) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5260 MHz)							
3983.15	53.44	-6.89	46.55	74.00	-27.45	PK	Vertical
3983.15	42.46	-6.89	35.57	54.00	-18.43	AV	Vertical
3999.31	52.74	-6.89	45.85	74.00	-28.15	PK	Horizontal
3999.31	42.19	-6.89	35.30	54.00	-18.70	AV	Horizontal
8920.96	54.00	-3.80	50.20	68.20	-18.00	PK	Vertical
8920.96	44.04	-3.80	40.24	54.00	-13.76	AV	Vertical
8908.46	53.12	-3.80	49.32	68.20	-18.88	PK	Horizontal
8908.46	43.96	-3.80	40.16	54.00	-13.84	AV	Horizontal
10520.43	56.20	-2.92	53.28	68.20	-14.92	PK	Vertical
10520.43	44.09	-2.92	41.17	54.00	-12.83	AV	Vertical
10520.34	55.42	-2.92	52.50	68.20	-15.70	PK	Horizontal
10520.34	44.96	-2.92	42.04	54.00	-11.96	AV	Horizontal
13291.10	54.88	-0.67	54.21	74.00	-19.79	PK	Vertical
13291.10	43.72	-0.67	43.05	54.00	-10.95	AV	Vertical
13292.13	53.70	-0.67	53.03	74.00	-20.97	PK	Horizontal
13292.13	44.33	-0.67	43.66	54.00	-10.34	AV	Horizontal
Mid Channel (802.11/ 5300 MHz)							
3991.22	52.19	-6.89	45.30	74.00	-28.70	PK	Vertical
3991.22	43.35	-6.89	36.46	54.00	-17.54	AV	Vertical
3983.36	52.49	-6.89	45.60	74.00	-28.40	PK	Horizontal
3983.36	43.46	-6.89	36.57	54.00	-17.43	AV	Horizontal
8925.52	53.61	-3.80	49.81	68.20	-18.39	PK	Vertical
8925.52	44.39	-3.80	40.59	54.00	-13.41	AV	Vertical
8916.37	53.07	-3.80	49.27	68.20	-18.93	PK	Horizontal
8916.37	44.07	-3.80	40.27	54.00	-13.73	AV	Horizontal
10600.22	55.60	-2.92	52.68	74.00	-21.32	PK	Vertical
10600.22	44.73	-2.92	41.81	54.00	-12.19	AV	Vertical
10600.16	55.83	-2.92	52.91	74.00	-21.09	PK	Horizontal
10600.16	44.33	-2.92	41.41	54.00	-12.59	AV	Horizontal
13285.43	54.16	-0.67	53.49	74.00	-20.51	PK	Vertical
13285.43	43.60	-0.67	42.93	54.00	-11.07	AV	Vertical
13293.96	53.96	-0.67	53.29	74.00	-20.71	PK	Horizontal
13293.96	44.81	-0.67	44.14	54.00	-9.86	AV	Horizontal
High Channel (802.11/ 5320 MHz)							
3995.36	53.24	-6.89	46.35	74.00	-27.65	PK	Vertical
3995.36	43.45	-6.89	36.56	54.00	-17.44	AV	Vertical
3980.89	52.25	-6.89	45.36	74.00	-28.64	PK	Horizontal
3980.89	42.71	-6.89	35.82	54.00	-18.18	AV	Horizontal
8908.33	53.86	-3.80	50.06	68.20	-18.14	PK	Vertical
8908.33	43.91	-3.80	40.11	54.00	-13.89	AV	Vertical
8916.09	53.40	-3.80	49.60	68.20	-18.60	PK	Horizontal
8916.09	43.87	-3.80	40.07	54.00	-13.93	AV	Horizontal
10640.32	55.14	-2.92	52.22	74.00	-21.78	PK	Vertical
10640.32	45.45	-2.92	42.53	54.00	-11.47	AV	Vertical
10640.37	55.20	-2.92	52.28	74.00	-21.72	PK	Horizontal
10640.37	44.18	-2.92	41.26	54.00	-12.74	AV	Horizontal
13288.28	54.78	-0.67	54.11	74.00	-19.89	PK	Vertical
13288.28	44.96	-0.67	44.29	54.00	-9.71	AV	Vertical
13293.28	54.54	-0.67	53.87	74.00	-20.13	PK	Horizontal
13293.28	44.89	-0.67	44.22	54.00	-9.78	AV	Horizontal

Band IV(5.725-5.85) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5745 MHz)							
3983.11	52.80	-6.89	45.91	74.00	-28.09	PK	Vertical
3983.11	42.34	-6.89	35.45	54.00	-18.55	AV	Vertical
3986.79	52.36	-6.89	45.47	74.00	-28.53	PK	Horizontal
3986.79	42.41	-6.89	35.52	54.00	-18.48	AV	Horizontal
8913.53	53.39	-3.80	49.59	68.20	-18.61	PK	Vertical
8913.53	43.01	-3.80	39.21	54.00	-14.79	AV	Vertical
8916.08	54.12	-3.80	50.32	68.20	-17.88	PK	Horizontal
8916.08	43.61	-3.80	39.81	54.00	-14.19	AV	Horizontal
11470.44	56.49	-2.92	53.57	74.00	-20.43	PK	Vertical
11470.44	44.75	-2.92	41.83	54.00	-12.17	AV	Vertical
11476.71	56.13	-2.92	53.21	74.00	-20.79	PK	Horizontal
11476.71	44.97	-2.92	42.05	54.00	-11.95	AV	Horizontal
13280.69	54.56	-0.35	54.21	74.00	-19.79	PK	Vertical
13280.69	44.75	-0.35	44.40	54.00	-9.60	AV	Vertical
13286.44	54.10	-0.35	53.75	74.00	-20.25	PK	Horizontal
13286.44	44.25	-0.35	43.90	54.00	-10.10	AV	Horizontal
Mid Channel (802.11/ 5785 MHz)							
3992.86	52.93	-6.89	46.04	74.00	-27.96	PK	Vertical
3992.86	42.70	-6.89	35.81	54.00	-18.19	AV	Vertical
3992.96	52.40	-6.89	45.51	74.00	-28.49	PK	Horizontal
3992.96	42.68	-6.89	35.79	54.00	-18.21	AV	Horizontal
8919.85	53.78	-3.80	49.98	68.20	-18.22	PK	Vertical
8919.85	43.59	-3.80	39.79	54.00	-14.21	AV	Vertical
8907.02	54.41	-3.80	50.61	68.20	-17.59	PK	Horizontal
8907.02	43.12	-3.80	39.32	54.00	-14.68	AV	Horizontal
11565.86	55.70	-2.92	52.78	74.00	-21.22	PK	Vertical
11565.86	45.11	-2.92	42.19	54.00	-11.81	AV	Vertical
11570.12	55.73	-2.92	52.81	74.00	-21.19	PK	Horizontal
11570.12	44.11	-2.92	41.19	54.00	-12.81	AV	Horizontal
13281.14	53.84	-0.35	53.49	74.00	-20.51	PK	Vertical
13281.14	44.43	-0.35	44.08	54.00	-9.92	AV	Vertical
13297.43	53.87	-0.35	53.52	74.00	-20.48	PK	Horizontal
13297.43	44.20	-0.35	43.85	54.00	-10.15	AV	Horizontal
High Channel (802.11/ 5825 MHz)							
3982.51	52.53	-6.89	45.64	74.00	-28.36	PK	Vertical
3982.51	43.16	-6.89	36.27	54.00	-17.73	AV	Vertical
3999.03	52.34	-6.89	45.45	74.00	-28.55	PK	Horizontal
3999.03	42.39	-6.89	35.50	54.00	-18.50	AV	Horizontal
8910.84	54.21	-3.80	50.41	68.20	-17.79	PK	Vertical
8910.84	43.38	-3.80	39.58	54.00	-14.42	AV	Vertical
8913.98	53.85	-3.80	50.05	68.20	-18.15	PK	Horizontal
8913.98	43.43	-3.80	39.63	54.00	-14.37	AV	Horizontal
11633.03	56.19	-2.92	53.27	74.00	-20.73	PK	Vertical
11633.03	44.66	-2.92	41.74	54.00	-12.26	AV	Vertical
11650.41	55.38	-2.92	52.46	74.00	-21.54	PK	Horizontal
11650.41	44.21	-2.92	41.29	54.00	-12.71	AV	Horizontal
13280.13	54.36	-0.35	54.01	74.00	-19.99	PK	Vertical
13280.13	44.27	-0.35	43.92	54.00	-10.08	AV	Vertical
13297.17	54.92	-0.35	54.57	74.00	-19.43	PK	Horizontal
13297.17	43.52	-0.35	43.17	54.00	-10.83	AV	Horizontal

Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

3.2.7 TEST RESULTS(Band edge Requirements)

Band I& Band II (5.15-5.35) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB）	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5150	55.19	-7.51	47.68	74	-26.32	PK	Vertical
5150	44.36	-7.51	36.85	54	-17.15	AV	Vertical
5150	55.24	-7.51	47.73	74	-26.27	PK	Horizontal
5150	44.96	-7.51	37.45	54	-16.55	AV	Horizontal
5350	55.38	-8.19	47.19	74	-26.81	PK	Vertical
5350	44.89	-8.19	36.70	54	-17.30	AV	Vertical
5350	54.99	-8.19	46.80	74	-27.20	PK	Horizontal
5350	44.05	-8.19	35.86	54	-18.14	AV	Horizontal
802.11n BW40MHz							
5150	55.78	-7.51	48.27	74	-25.73	Peak	Vertical
5150	44.69	-7.51	37.18	54	-16.82	AVG	Vertical
5150	55.17	-7.51	47.66	74	-26.34	Peak	Horizontal
5150	44.38	-7.51	36.87	54	-17.13	AVG	Horizontal
5350	54.32	-8.19	46.13	74	-27.87	Peak	Vertical
5350	44.98	-8.19	36.79	54	-17.21	AVG	Vertical
5350	54.42	-8.19	46.23	74	-27.77	Peak	Horizontal
5350	44.42	-8.19	36.23	54	-17.77	AVG	Horizontal
802.11ac BW80MHz							
5150	55.50	-7.51	47.99	74	-26.01	Peak	Vertical
5150	44.71	-7.51	37.20	54	-16.80	AVG	Vertical
5150	56.48	-7.51	48.97	74	-25.03	Peak	Horizontal
5150	44.39	-7.51	36.88	54	-17.12	AVG	Horizontal
5350	54.13	-8.19	45.94	74	-28.06	Peak	Vertical
5350	44.98	-8.19	36.79	54	-17.21	AVG	Vertical
5350	54.08	-8.19	45.89	74	-28.11	Peak	Horizontal
5350	44.01	-8.19	35.82	54	-18.18	AVG	Horizontal

Band IV(5.725-5.85 GHz)							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5460	53.41	-8.27	45.14	74	-28.86	PK	Vertical
5460	43.13	-8.27	34.86	54	-19.14	AV	Vertical
5460	53.08	-8.27	44.81	74	-29.19	PK	Horizontal
5460	43.51	-8.27	35.24	54	-18.76	AV	Horizontal
7250	55.33	-6.33	49.00	74	-25.00	PK	Vertical
7250	44.73	-6.33	38.40	54	-15.60	AV	Vertical
7250	54.36	-6.33	48.03	74	-25.97	PK	Horizontal
7250	44.03	-6.33	37.70	54	-16.30	AV	Horizontal
802.11n BW40MHz							
5460	53.51	-8.27	45.24	74	-28.76	PK	Vertical
5460	43.78	-8.27	35.51	54	-18.49	AV	Vertical
5460	53.32	-8.27	45.05	74	-28.95	PK	Horizontal
5460	43.45	-8.27	35.18	54	-18.82	AV	Horizontal
7250	55.48	-6.33	49.15	74	-24.85	PK	Vertical
7250	43.61	-6.33	37.28	54	-16.72	AV	Vertical
7250	54.17	-6.33	47.84	74	-26.16	PK	Horizontal
7250	44.50	-6.33	38.17	54	-15.83	AV	Horizontal
802.11ac BW80MHz							
5460	54.12	-8.27	45.85	74	-28.15	PK	Vertical
5460	43.54	-8.27	35.27	54	-18.73	AV	Vertical
5460	54.47	-8.27	46.20	74	-27.80	PK	Horizontal
5460	43.48	-8.27	35.21	54	-18.79	AV	Horizontal
7250	54.79	-6.33	48.46	74	-25.54	PK	Vertical
7250	44.27	-6.33	37.94	54	-16.06	AV	Vertical
7250	55.36	-6.33	49.03	74	-24.97	PK	Horizontal
7250	43.81	-6.33	37.48	54	-16.52	AV	Horizontal

4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.,* 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

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

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

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

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

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

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.

5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > =RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 TEST RESULTS

For the measurement records, refer to the appendix I.

5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

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

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
The following procedure shall be used for measuring (99 %) power bandwidth:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP

5.2.4 EUT OPERATION CONDITIONS

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

5.2.5 TEST RESULTS

For the measurement records, refer to the appendix I.

5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP

5.3.4 EUT OPERATION CONDITIONS

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

5.3.5 TEST RESULTS

For the measurement records, refer to the appendix I.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz,If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5825	

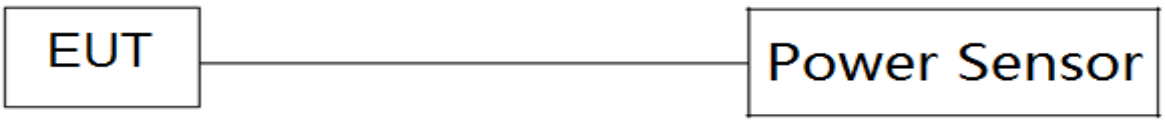
6.2 TEST PROCEDURE

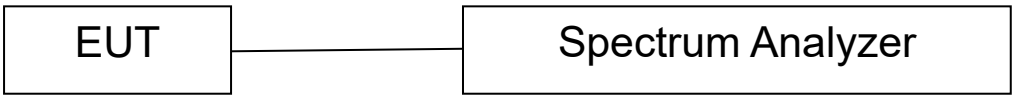
The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP





6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.

7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

Part 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.

8.2 EUT ANTENNA

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

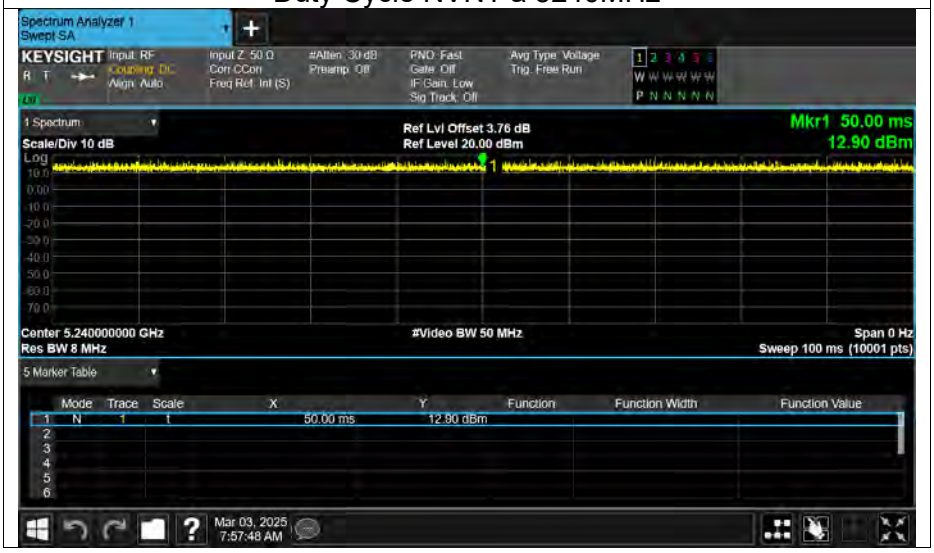
APPENDIX I - TEST RESULTS

Duty Cycle

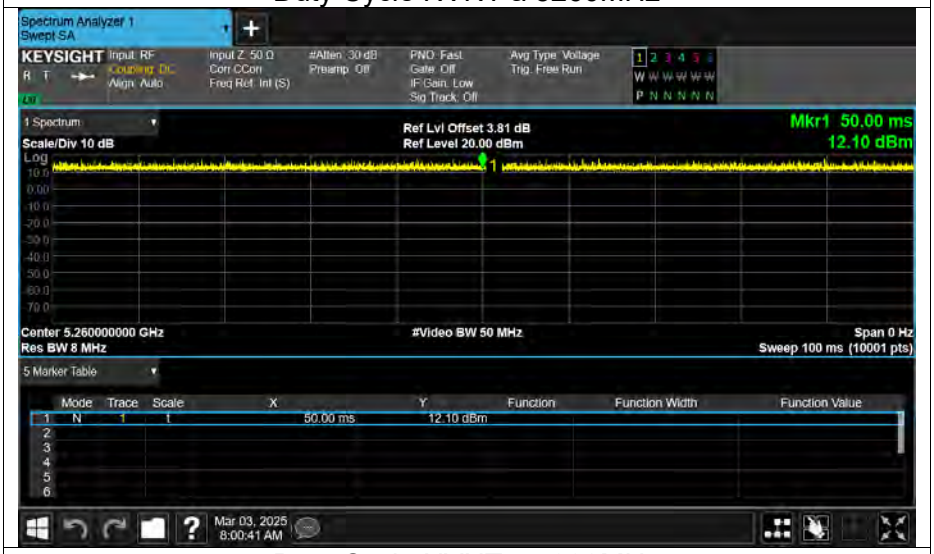
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	100	0	0.01
NVNT	a	5200	100	0	0.01
NVNT	a	5240	100	0	0.01
NVNT	a	5260	100	0	0.01
NVNT	a	5300	100	0	0.01
NVNT	a	5320	100	0	0.01
NVNT	a	5745	100	0	0.01
NVNT	a	5785	100	0	0.01
NVNT	a	5825	100	0	0.01
NVNT	n20	5180	100	0	0.01
NVNT	n20	5200	100	0	0.01
NVNT	n20	5240	100	0	0.01
NVNT	n20	5260	100	0	0.01
NVNT	n20	5300	100	0	0.01
NVNT	n20	5320	100	0	0.01
NVNT	n20	5745	100	0	0.01
NVNT	n20	5785	100	0	0.01
NVNT	n20	5825	100	0	0.01
NVNT	n40	5190	100	0	0.01
NVNT	n40	5230	100	0	0.01
NVNT	n40	5270	100	0	0.01
NVNT	n40	5310	100	0	0.01
NVNT	n40	5755	100	0	0.01
NVNT	n40	5795	100	0	0.01
NVNT	ac20	5180	100	0	0.01
NVNT	ac20	5200	100	0	0.01
NVNT	ac20	5240	100	0	0.01
NVNT	ac20	5260	100	0	0.01
NVNT	ac20	5300	100	0	0.01
NVNT	ac20	5320	100	0	0.01
NVNT	ac20	5745	100	0	0.01
NVNT	ac20	5785	100	0	0.01
NVNT	ac20	5825	100	0	0.01
NVNT	ac40	5190	100	0	0.01
NVNT	ac40	5230	100	0	0.01
NVNT	ac40	5270	100	0	0.01
NVNT	ac40	5310	100	0	0.01
NVNT	ac40	5755	100	0	0.01
NVNT	ac40	5795	100	0	0.01
NVNT	ac80	5210	100	0	0.01
NVNT	ac80	5290	100	0	0.01
NVNT	ac80	5775	100	0	0.01

Test Graphs
Duty Cycle NVNT a 5180MHz

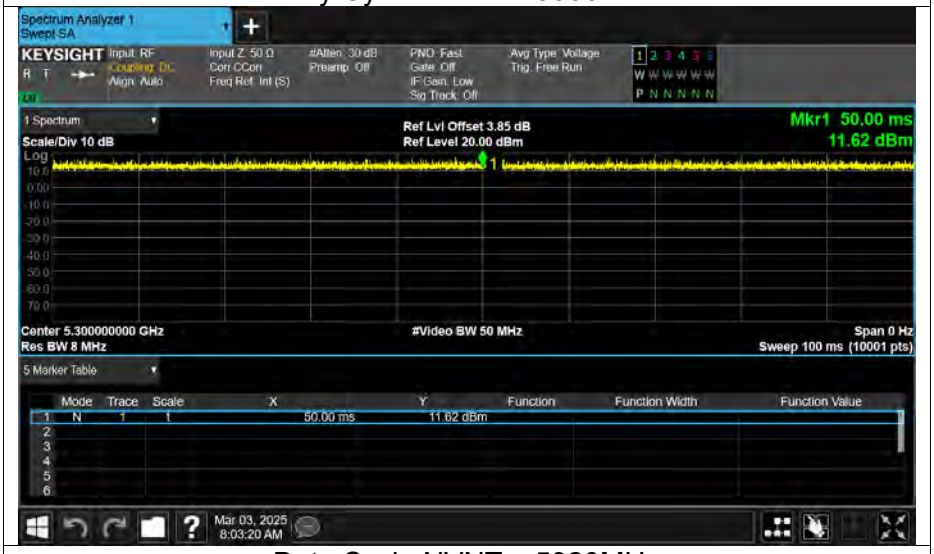
Duty Cycle NVNT a 5200MHz

Duty Cycle NVNT a 5240MHz


Duty Cycle NVNT a 5260MHz



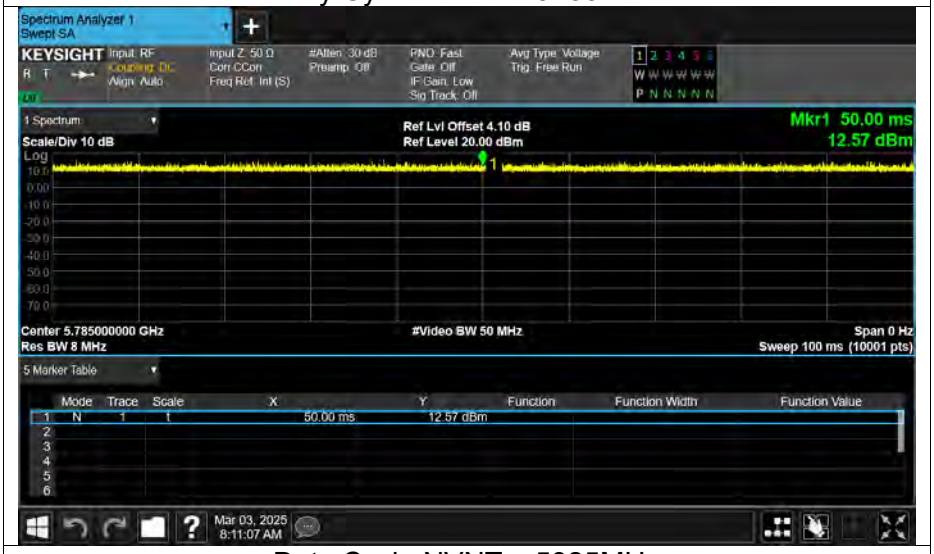
Duty Cycle NVNT a 5300MHz



Duty Cycle NVNT a 5320MHz

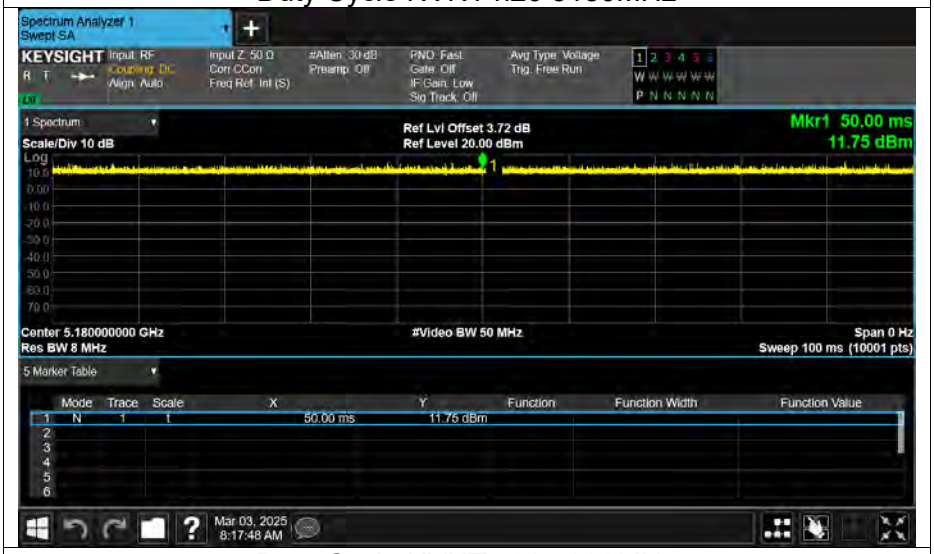
Duty Cycle NVNT a 5745MHz

Duty Cycle NVNT a 5785MHz

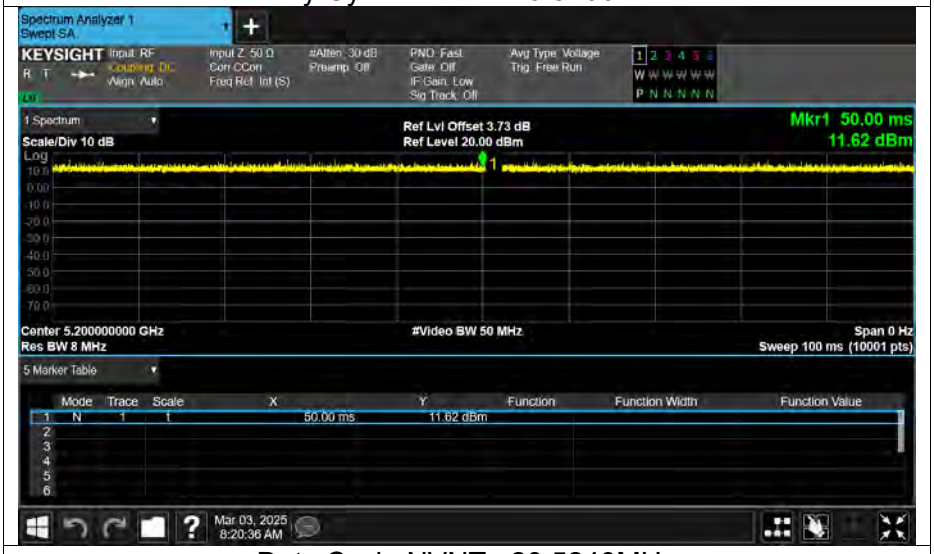


Duty Cycle NVNT a 5825MHz

Duty Cycle NVNT n20 5180MHz

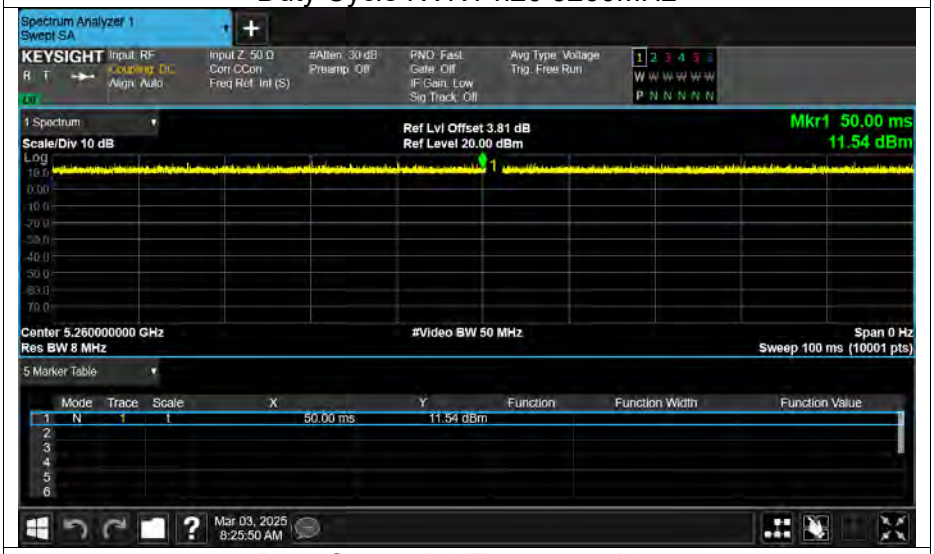


Duty Cycle NVNT n20 5200MHz

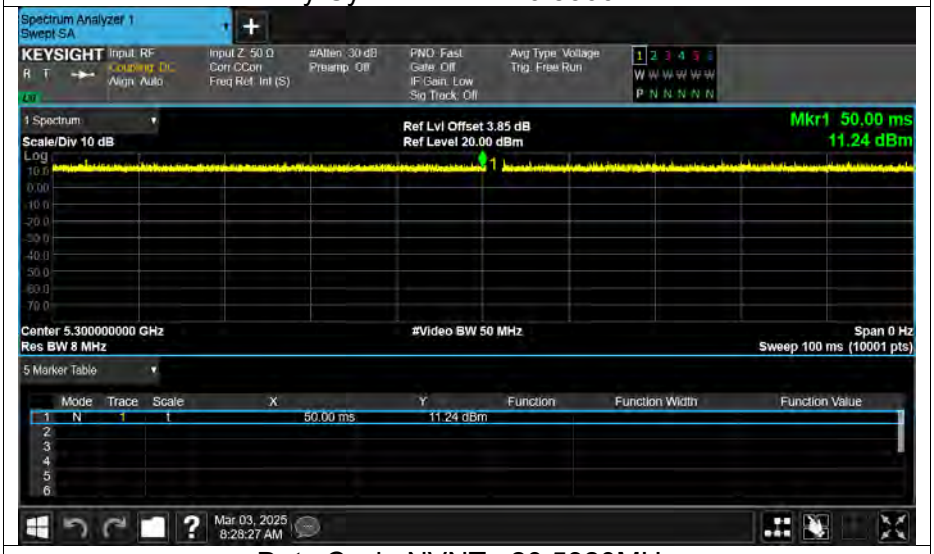


Duty Cycle NVNT n20 5240MHz

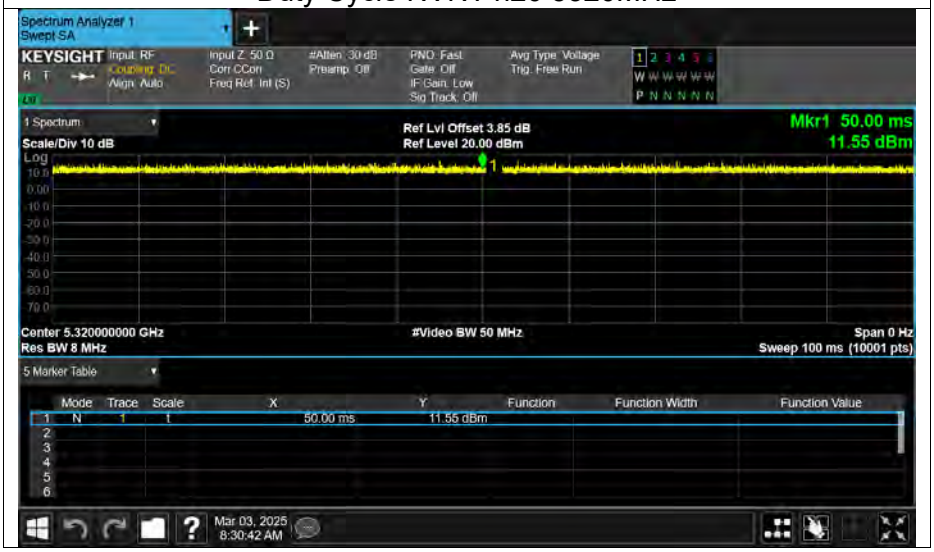
Duty Cycle NVNT n20 5260MHz



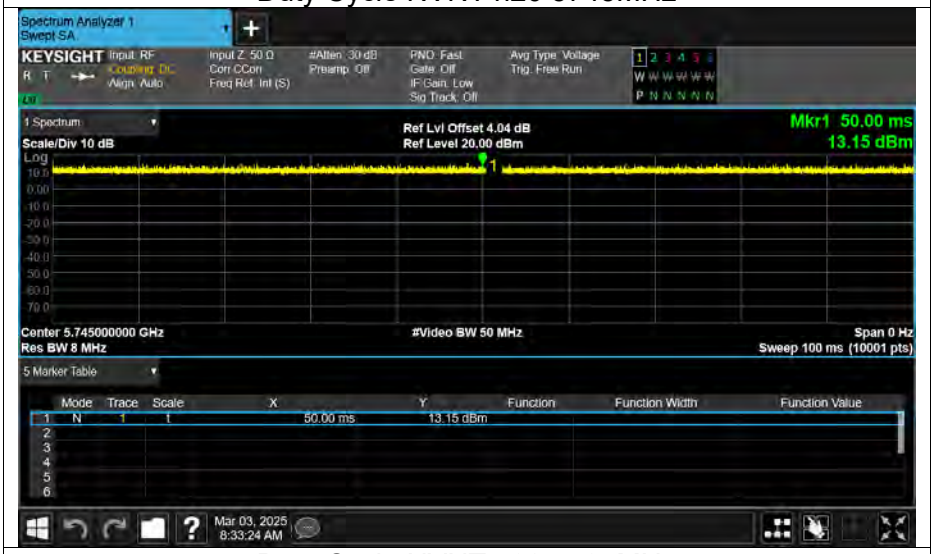
Duty Cycle NVNT n20 5300MHz



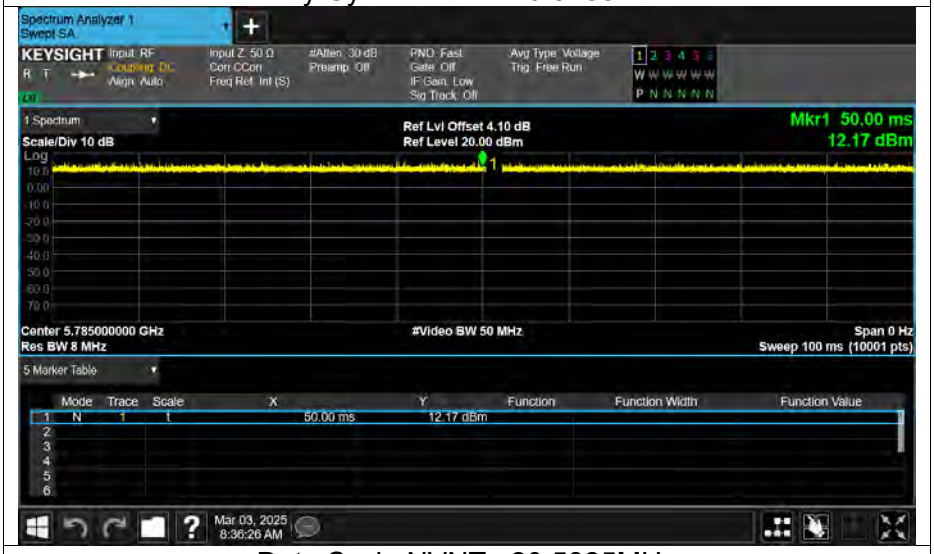
Duty Cycle NVNT n20 5320MHz



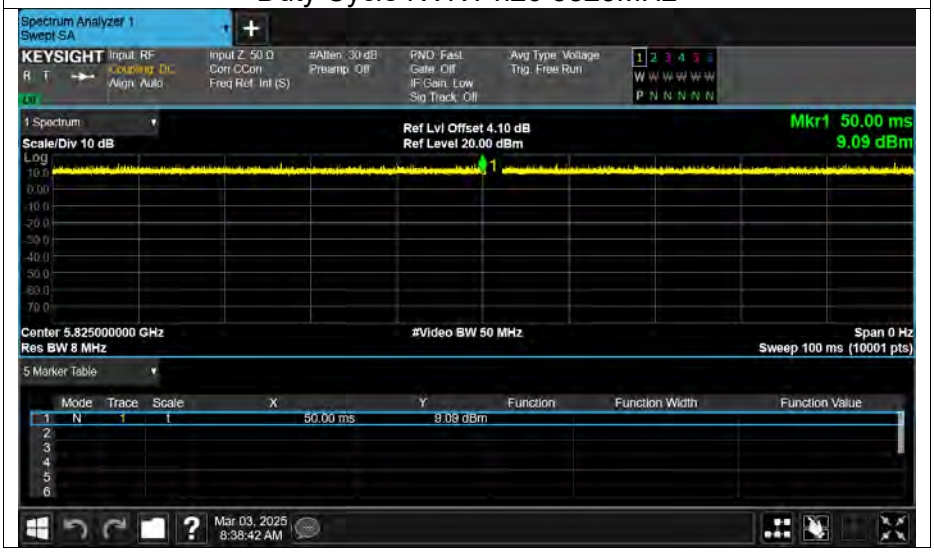
Duty Cycle NVNT n20 5745MHz



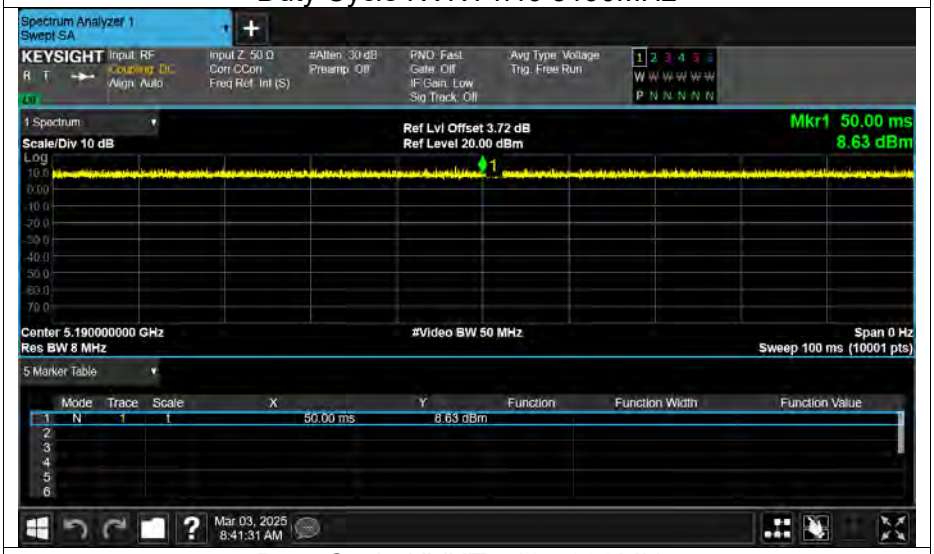
Duty Cycle NVNT n20 5785MHz



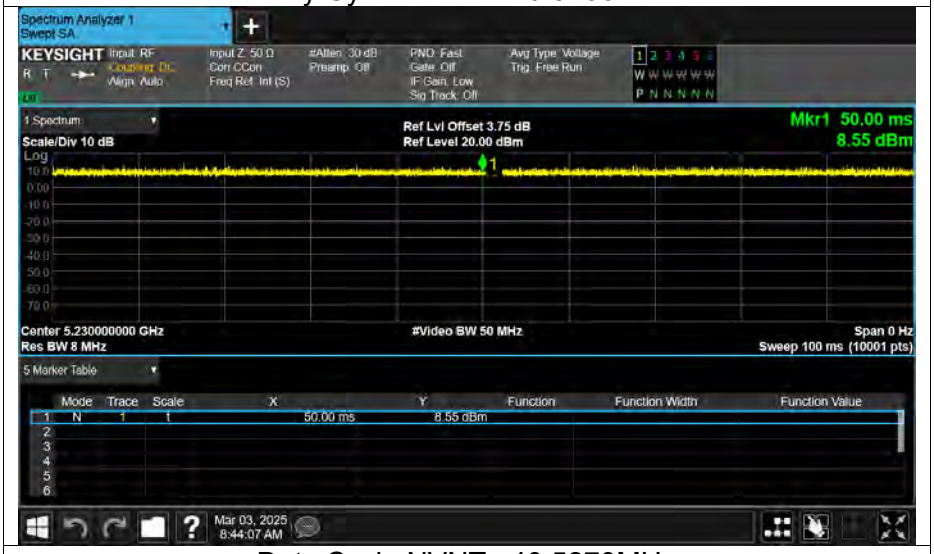
Duty Cycle NVNT n20 5825MHz



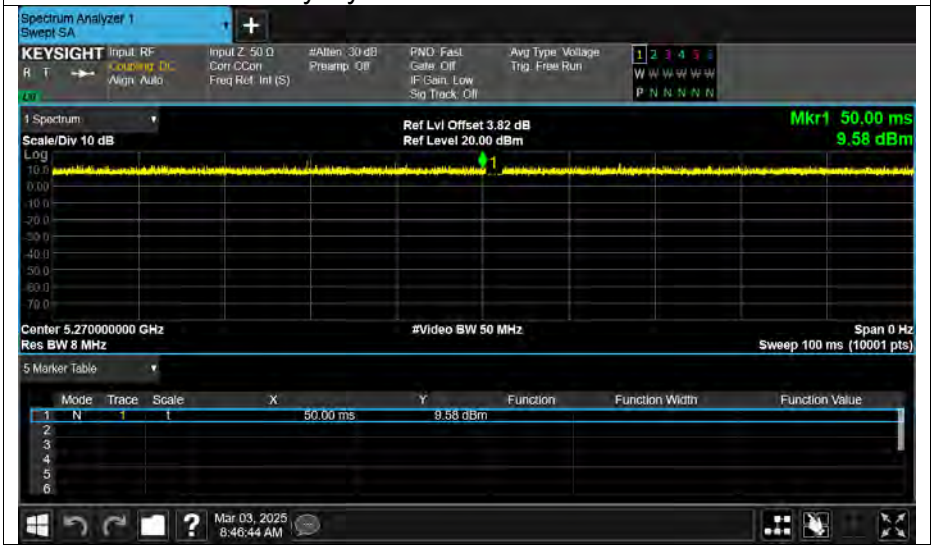
Duty Cycle NVNT n40 5190MHz



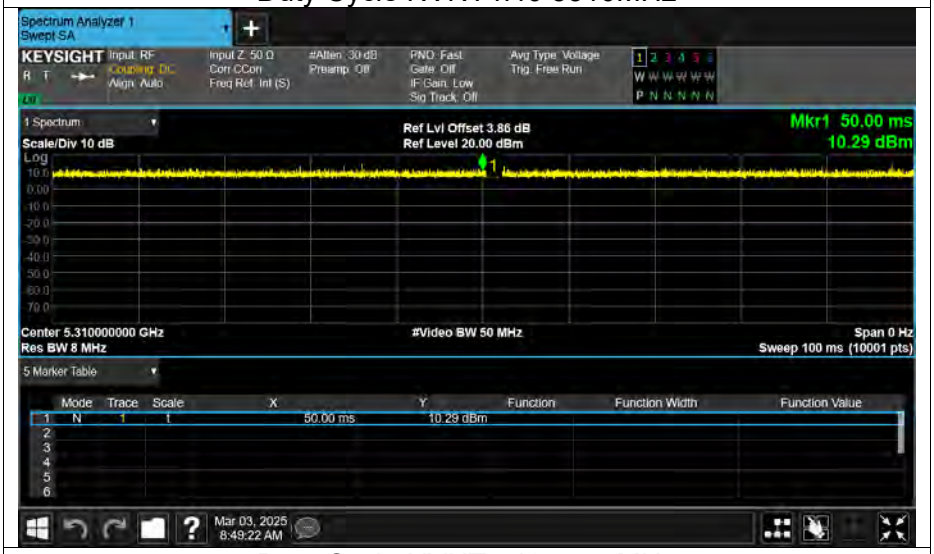
Duty Cycle NVNT n40 5230MHz



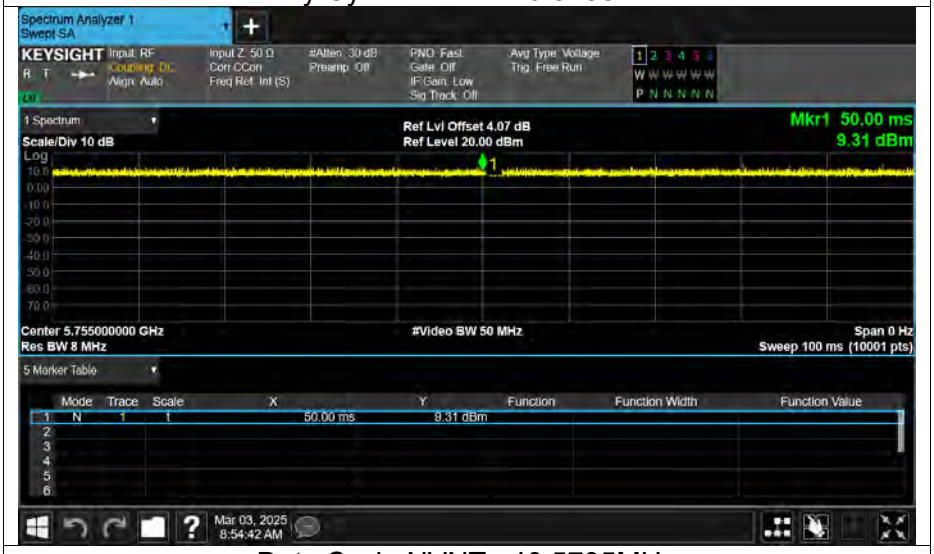
Duty Cycle NVNT n40 5270MHz



Duty Cycle NVNT n40 5310MHz



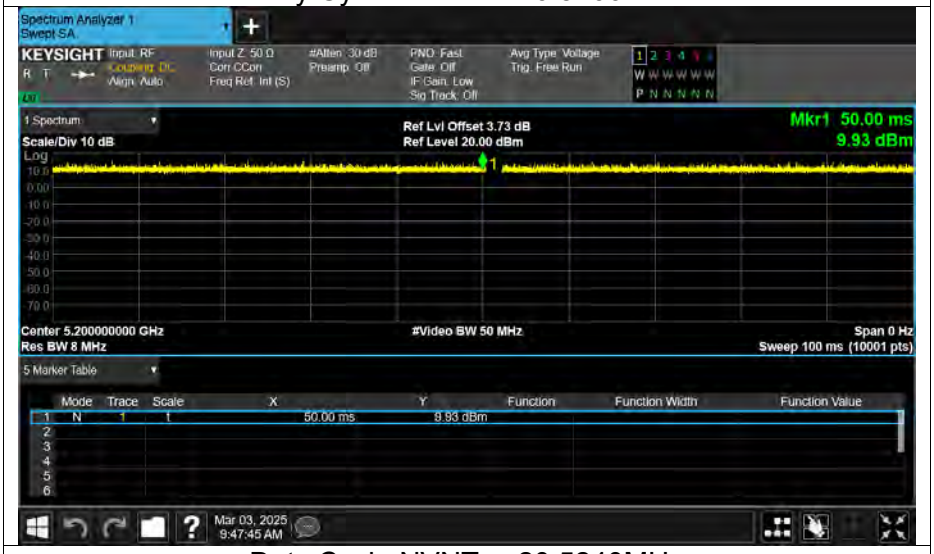
Duty Cycle NVNT n40 5755MHz



Duty Cycle NVNT n40 5795MHz

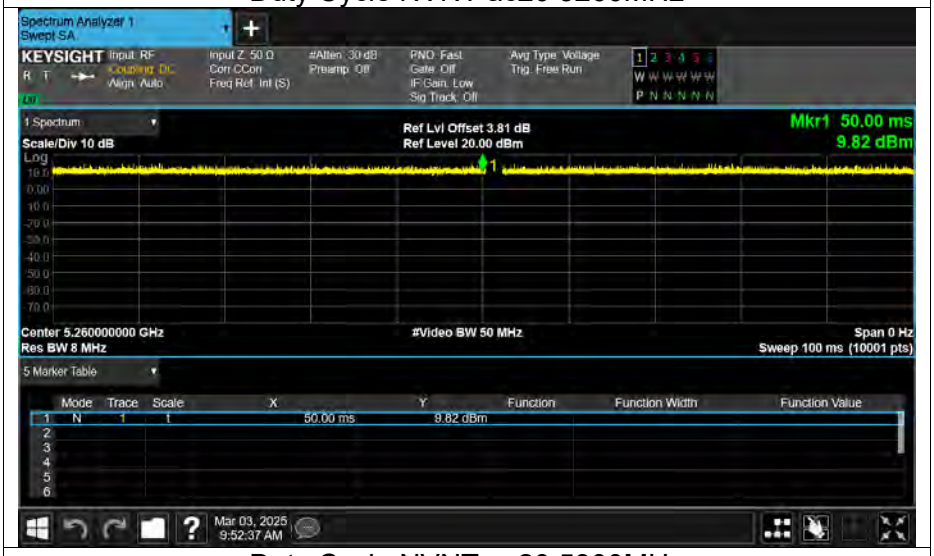
Duty Cycle NVNT ac20 5180MHz

Duty Cycle NVNT ac20 5200MHz

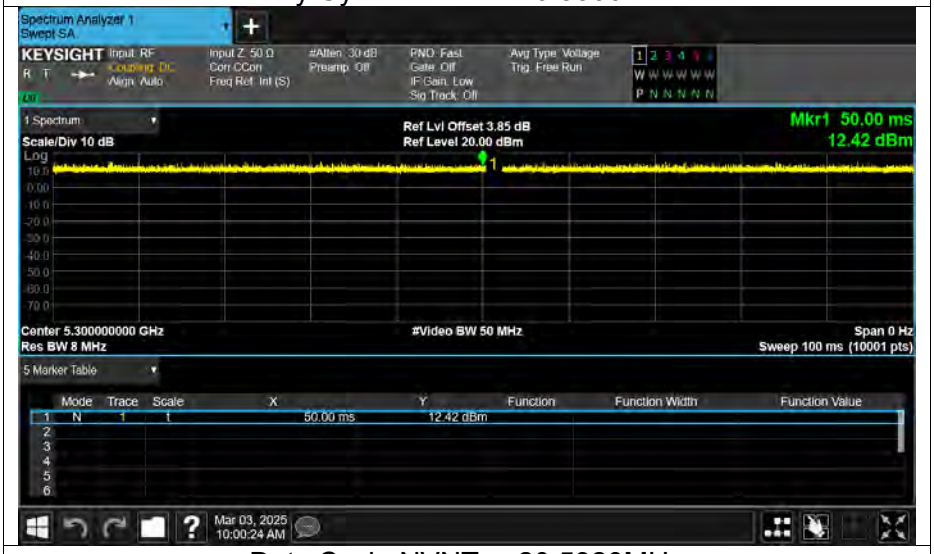


Duty Cycle NVNT ac20 5240MHz

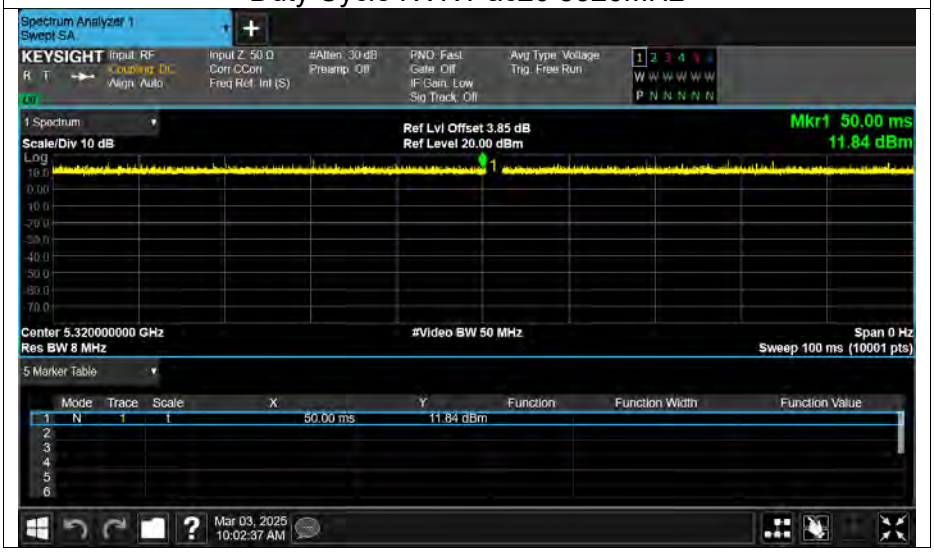
Duty Cycle NVNT ac20 5260MHz



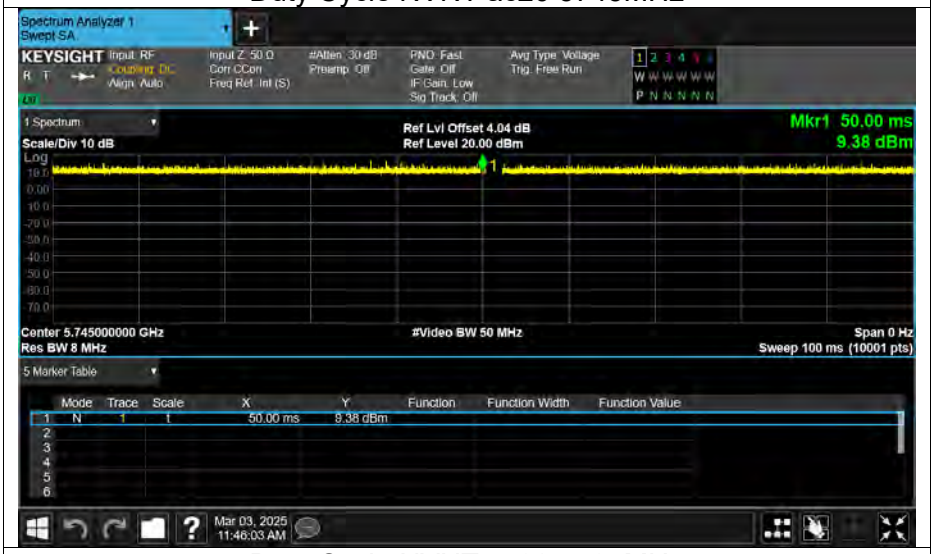
Duty Cycle NVNT ac20 5300MHz



Duty Cycle NVNT ac20 5320MHz

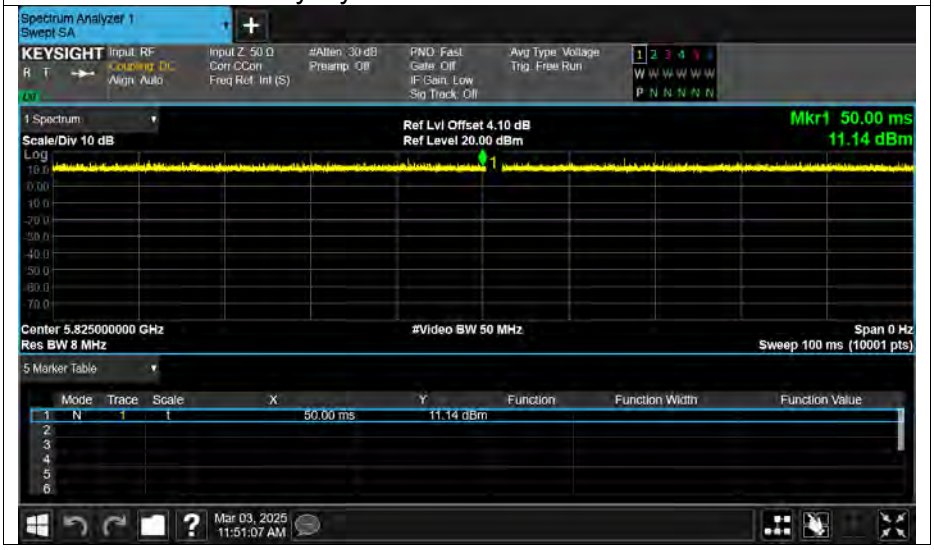


Duty Cycle NVNT ac20 5745MHz



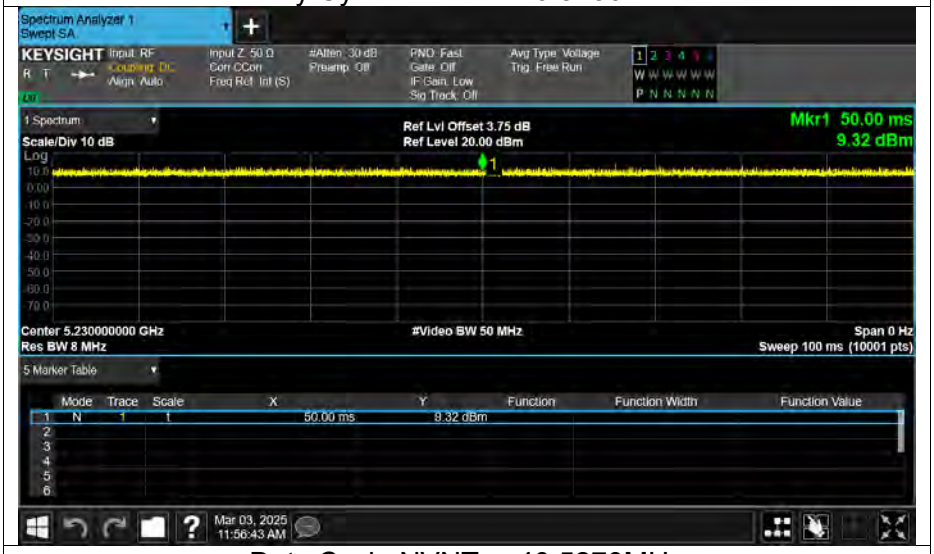
Duty Cycle NVNT ac20 5785MHz

Duty Cycle NVNT ac20 5825MHz



Duty Cycle NVNT ac40 5190MHz

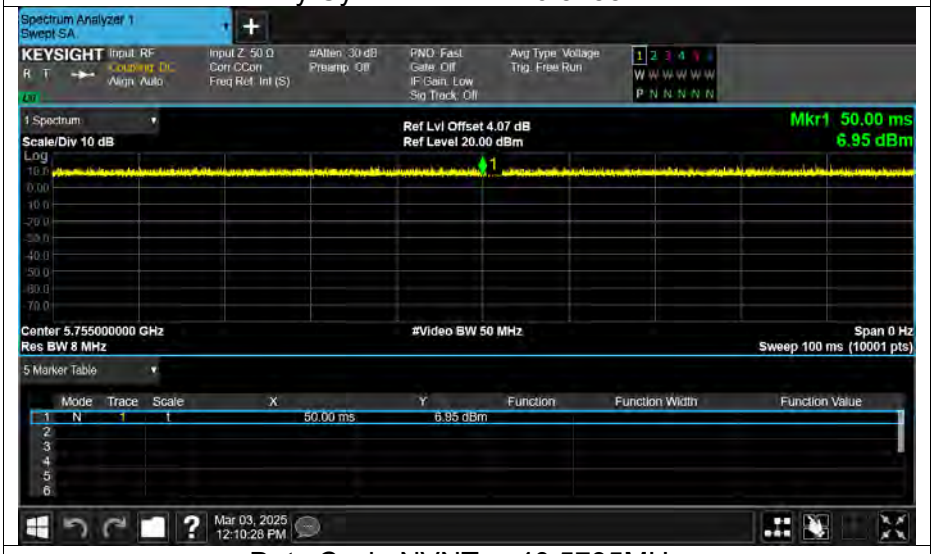
Duty Cycle NVNT ac40 5230MHz



Duty Cycle NVNT ac40 5270MHz

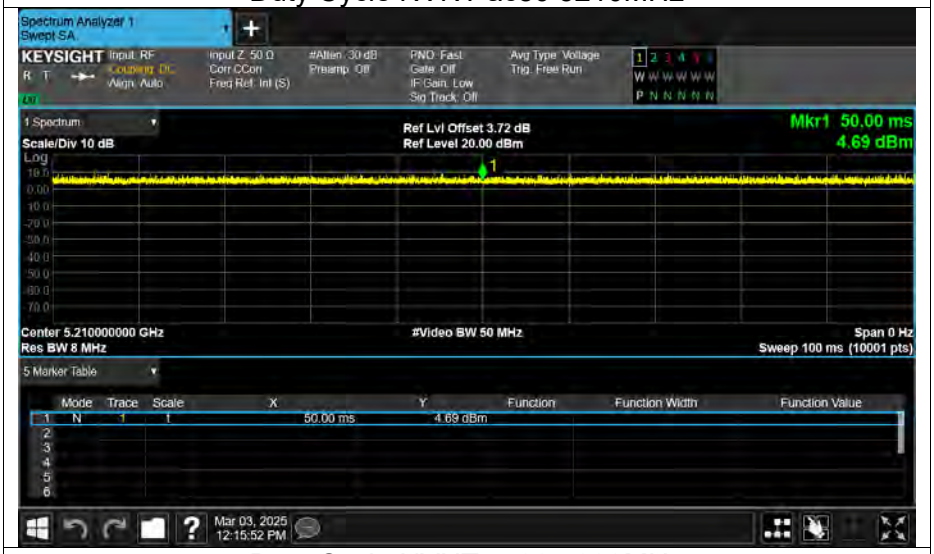
Duty Cycle NVNT ac40 5310MHz

Duty Cycle NVNT ac40 5755MHz

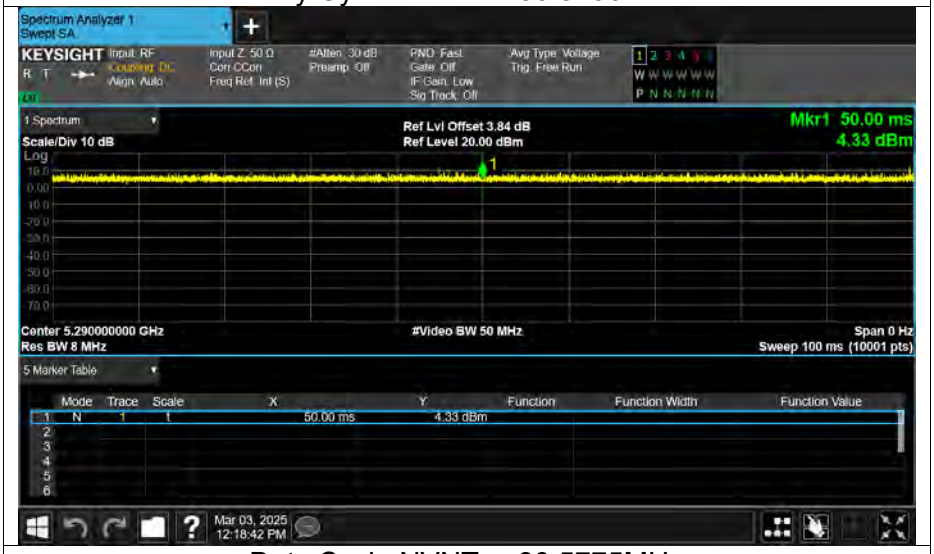


Duty Cycle NVNT ac40 5795MHz

Duty Cycle NVNT ac80 5210MHz



Duty Cycle NVNT ac80 5290MHz



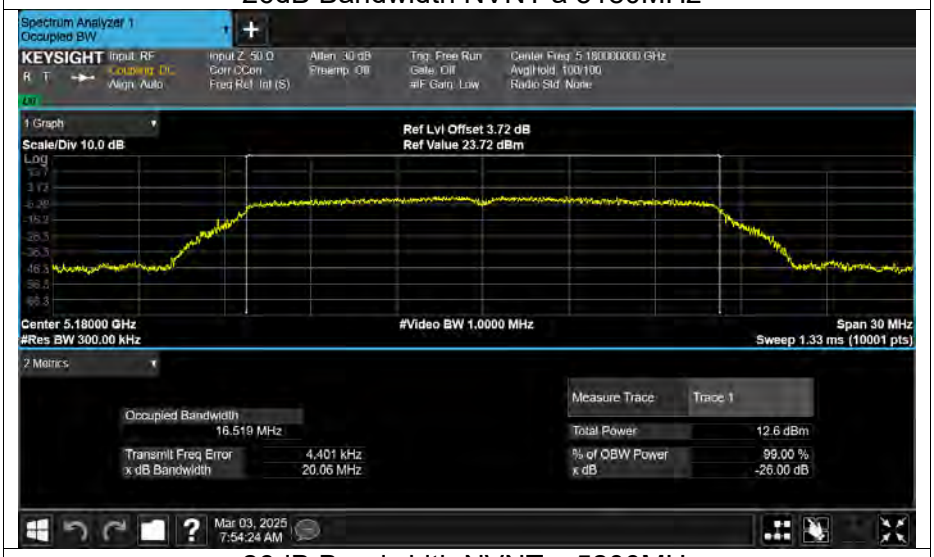
Duty Cycle NVNT ac80 5775MHz

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	7.42	0	7.42	24	Pass
NVNT	a	5200	8.24	0	8.24	24	Pass
NVNT	a	5240	7.98	0	7.98	24	Pass
NVNT	a	5260	8	0	8	24	Pass
NVNT	a	5300	7.74	0	7.74	24	Pass
NVNT	a	5320	7.98	0	7.98	24	Pass
NVNT	a	5745	7.42	0	7.42	30	Pass
NVNT	a	5785	7.15	0	7.15	30	Pass
NVNT	a	5825	6.68	0	6.68	30	Pass
NVNT	n20	5180	6.76	0	6.76	24	Pass
NVNT	n20	5200	6.92	0	6.92	24	Pass
NVNT	n20	5240	6.73	0	6.73	24	Pass
NVNT	n20	5260	6.77	0	6.77	24	Pass
NVNT	n20	5300	6.79	0	6.79	24	Pass
NVNT	n20	5320	6.92	0	6.92	24	Pass
NVNT	n20	5745	7.07	0	7.07	30	Pass
NVNT	n20	5785	7.06	0	7.06	30	Pass
NVNT	n20	5825	6.59	0	6.59	30	Pass
NVNT	n40	5190	6.82	0	6.82	24	Pass
NVNT	n40	5230	7.01	0	7.01	24	Pass
NVNT	n40	5270	6.79	0	6.79	24	Pass
NVNT	n40	5310	6.82	0	6.82	24	Pass
NVNT	n40	5755	7.14	0	7.14	30	Pass
NVNT	n40	5795	7	0	7	30	Pass
NVNT	ac20	5180	6.58	0	6.58	24	Pass
NVNT	ac20	5200	6.27	0	6.27	24	Pass
NVNT	ac20	5240	6.28	0	6.28	24	Pass
NVNT	ac20	5260	6.31	0	6.31	24	Pass
NVNT	ac20	5300	6.39	0	6.39	24	Pass
NVNT	ac20	5320	6.26	0	6.26	24	Pass
NVNT	ac20	5745	6.82	0	6.82	30	Pass
NVNT	ac20	5785	6.64	0	6.64	30	Pass
NVNT	ac20	5825	6.41	0	6.41	30	Pass
NVNT	ac40	5190	6.63	0	6.63	24	Pass
NVNT	ac40	5230	6.76	0	6.76	24	Pass
NVNT	ac40	5270	6.83	0	6.83	24	Pass
NVNT	ac40	5310	6.65	0	6.65	24	Pass
NVNT	ac40	5755	6.89	0	6.89	30	Pass
NVNT	ac40	5795	6.53	0	6.53	30	Pass
NVNT	ac80	5210	6.52	0	6.52	24	Pass
NVNT	ac80	5290	6.51	0	6.51	24	Pass
NVNT	ac80	5775	6.67	0	6.67	30	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	20.058	Pass
NVNT	a	5200	24.198	Pass
NVNT	a	5240	19.887	Pass
NVNT	a	5260	20.042	Pass
NVNT	a	5300	20.065	Pass
NVNT	a	5320	20.005	Pass
NVNT	n20	5180	20.475	Pass
NVNT	n20	5200	20.244	Pass
NVNT	n20	5240	20.424	Pass
NVNT	n20	5260	20.343	Pass
NVNT	n20	5300	20.266	Pass
NVNT	n20	5320	20.303	Pass
NVNT	n40	5190	39.811	Pass
NVNT	n40	5230	39.837	Pass
NVNT	n40	5270	40.091	Pass
NVNT	n40	5310	40.136	Pass
NVNT	ac20	5180	20.363	Pass
NVNT	ac20	5200	20.216	Pass
NVNT	ac20	5240	20.257	Pass
NVNT	ac20	5260	20.356	Pass
NVNT	ac20	5300	20.412	Pass
NVNT	ac20	5320	20.308	Pass
NVNT	ac40	5190	39.543	Pass
NVNT	ac40	5230	39.845	Pass
NVNT	ac40	5270	40.22	Pass
NVNT	ac40	5310	39.788	Pass
NVNT	ac80	5210	79.142	Pass
NVNT	ac80	5290	79.029	Pass

Test Graphs
-26dB Bandwidth NVNT a 5180MHz

-26dB Bandwidth NVNT a 5200MHz

-26dB Bandwidth NVNT a 5240MHz


-26dB Bandwidth NVNT a 5260MHz

-26dB Bandwidth NVNT a 5300MHz

-26dB Bandwidth NVNT a 5320MHz

-26dB Bandwidth NVNT n20 5180MHz

-26dB Bandwidth NVNT n20 5200MHz

-26dB Bandwidth NVNT n20 5240MHz

-26dB Bandwidth NVNT n20 5260MHz

-26dB Bandwidth NVNT n20 5300MHz

-26dB Bandwidth NVNT n20 5320MHz

-26dB Bandwidth NVNT n40 5190MHz

-26dB Bandwidth NVNT n40 5230MHz

-26dB Bandwidth NVNT n40 5270MHz

-26dB Bandwidth NVNT n40 5310MHz

-26dB Bandwidth NVNT ac20 5180MHz

-26dB Bandwidth NVNT ac20 5200MHz

-26dB Bandwidth NVNT ac20 5240MHz

-26dB Bandwidth NVNT ac20 5260MHz

-26dB Bandwidth NVNT ac20 5300MHz

-26dB Bandwidth NVNT ac20 5320MHz

-26dB Bandwidth NVNT ac40 5190MHz

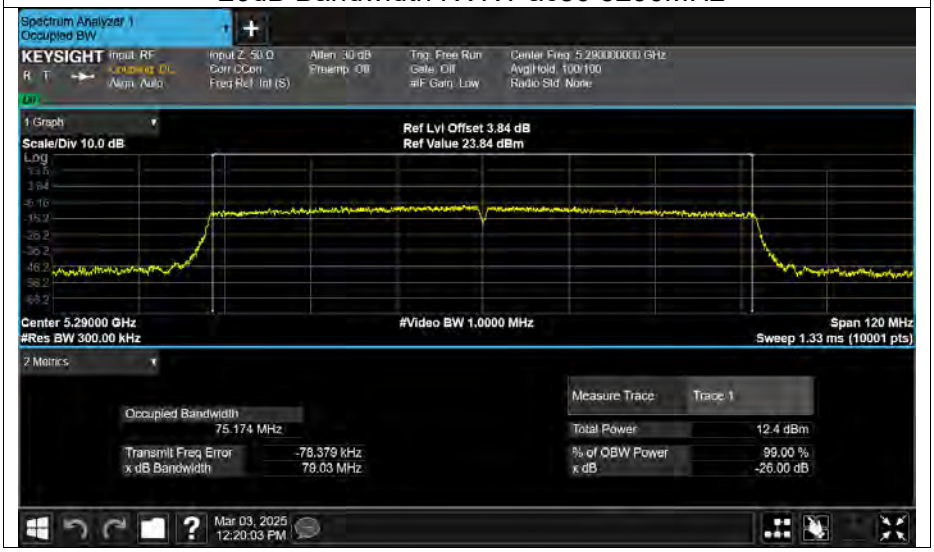
-26dB Bandwidth NVNT ac40 5230MHz

-26dB Bandwidth NVNT ac40 5270MHz

-26dB Bandwidth NVNT ac40 5310MHz

-26dB Bandwidth NVNT ac80 5210MHz

-26dB Bandwidth NVNT ac80 5290MHz



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.403
NVNT	a	5200	16.503
NVNT	a	5240	16.367
NVNT	a	5260	16.414
NVNT	a	5300	16.398
NVNT	a	5320	16.36
NVNT	a	5745	16.407
NVNT	a	5785	16.42
NVNT	a	5825	16.407
NVNT	n20	5180	17.564
NVNT	n20	5200	17.554
NVNT	n20	5240	17.551
NVNT	n20	5260	17.559
NVNT	n20	5300	17.555
NVNT	n20	5320	17.53
NVNT	n20	5745	17.533
NVNT	n20	5785	17.546
NVNT	n20	5825	17.546
NVNT	n40	5190	35.941
NVNT	n40	5230	35.942
NVNT	n40	5270	35.952
NVNT	n40	5310	35.968
NVNT	n40	5755	35.924
NVNT	n40	5795	35.915
NVNT	ac20	5180	17.547
NVNT	ac20	5200	17.536
NVNT	ac20	5240	17.542
NVNT	ac20	5260	17.533
NVNT	ac20	5300	17.565
NVNT	ac20	5320	17.542
NVNT	ac20	5745	17.556
NVNT	ac20	5785	17.538
NVNT	ac20	5825	17.531
NVNT	ac40	5190	35.946
NVNT	ac40	5230	35.908
NVNT	ac40	5270	35.98
NVNT	ac40	5310	35.929
NVNT	ac40	5755	35.969
NVNT	ac40	5795	35.966
NVNT	ac80	5210	75.113
NVNT	ac80	5290	75.159
NVNT	ac80	5775	75.147

Test Graphs
OBW NVNT a 5180MHz

OBW NVNT a 5200MHz

OBW NVNT a 5240MHz


OBW NVNT a 5260MHz

OBW NVNT a 5300MHz

OBW NVNT a 5320MHz

OBW NVNT a 5745MHz

OBW NVNT a 5785MHz

OBW NVNT a 5825MHz

OBW NVNT n20 5180MHz

OBW NVNT n20 5200MHz

OBW NVNT n20 5240MHz

OBW NVNT n20 5260MHz

OBW NVNT n20 5300MHz

OBW NVNT n20 5320MHz

OBW NVNT n20 5745MHz

OBW NVNT n20 5785MHz

OBW NVNT n20 5825MHz

OBW NVNT n40 5190MHz

OBW NVNT n40 5230MHz

OBW NVNT n40 5270MHz

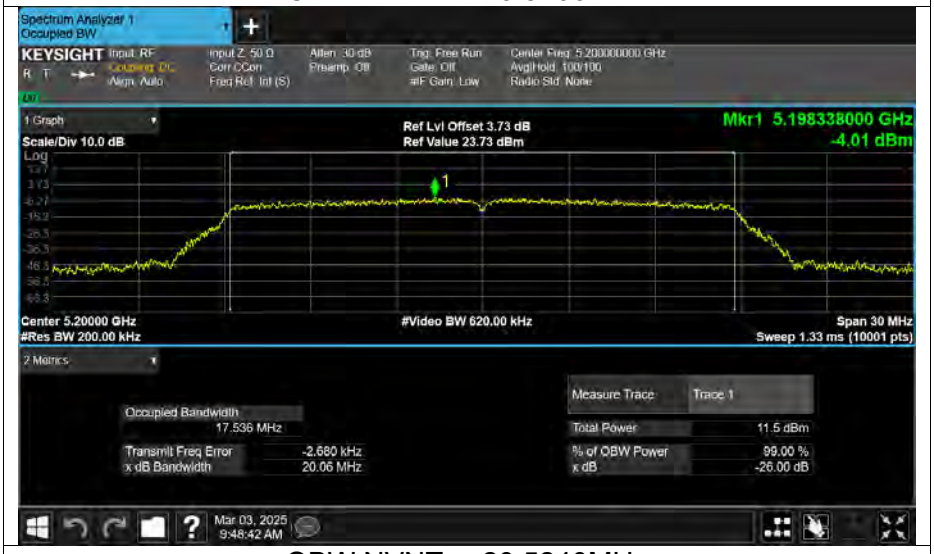
OBW NVNT n40 5310MHz

OBW NVNT n40 5755MHz

OBW NVNT n40 5795MHz

OBW NVNT ac20 5180MHz

OBW NVNT ac20 5200MHz



OBW NVNT ac20 5240MHz

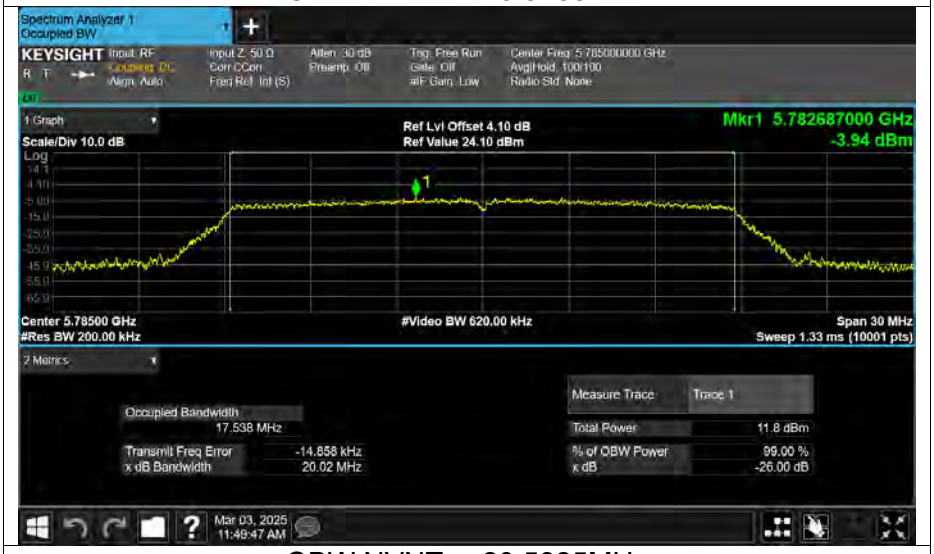
OBW NVNT ac20 5260MHz

OBW NVNT ac20 5300MHz

OBW NVNT ac20 5320MHz

OBW NVNT ac20 5745MHz

OBW NVNT ac20 5785MHz



OBW NVNT ac20 5825MHz

OBW NVNT ac40 5190MHz

OBW NVNT ac40 5230MHz

OBW NVNT ac40 5270MHz

OBW NVNT ac40 5310MHz

OBW NVNT ac40 5755MHz

OBW NVNT ac40 5795MHz

OBW NVNT ac80 5210MHz

OBW NVNT ac80 5290MHz

OBW NVNT ac80 5775MHz

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	-3.73	0	-3.73	11	Pass
NVNT	a	5200	-2.9	0	-2.9	11	Pass
NVNT	a	5240	-3	0	-3	11	Pass
NVNT	a	5260	-3	0	-3	11	Pass
NVNT	a	5300	-3.43	0	-3.43	11	Pass
NVNT	a	5320	-3.08	0	-3.08	11	Pass
NVNT	n20	5180	-4.69	0	-4.69	11	Pass
NVNT	n20	5200	-4.64	0	-4.64	11	Pass
NVNT	n20	5240	-4.45	0	-4.45	11	Pass
NVNT	n20	5260	-4.29	0	-4.29	11	Pass
NVNT	n20	5300	-4.3	0	-4.3	11	Pass
NVNT	n20	5320	-4.15	0	-4.15	11	Pass
NVNT	n40	5190	-7.28	0	-7.28	11	Pass
NVNT	n40	5230	-6.94	0	-6.94	11	Pass
NVNT	n40	5270	-7.34	0	-7.34	11	Pass
NVNT	n40	5310	-7.22	0	-7.22	11	Pass
NVNT	ac20	5180	-5.04	0	-5.04	11	Pass
NVNT	ac20	5200	-5.13	0	-5.13	11	Pass
NVNT	ac20	5240	-4.91	0	-4.91	11	Pass
NVNT	ac20	5260	-4.91	0	-4.91	11	Pass
NVNT	ac20	5300	-4.49	0	-4.49	11	Pass
NVNT	ac20	5320	-4.45	0	-4.45	11	Pass
NVNT	ac40	5190	-7.43	0	-7.43	11	Pass
NVNT	ac40	5230	-7.24	0	-7.24	11	Pass
NVNT	ac40	5270	-7.35	0	-7.35	11	Pass
NVNT	ac40	5310	-7.62	0	-7.62	11	Pass
NVNT	ac80	5210	-10.69	0	-10.69	11	Pass
NVNT	ac80	5290	-10.86	0	-10.86	11	Pass
Condition	**Mode**	**Frequency (MHz)**	**Conducted PSD (dBm/500kHz)**	**Duty Factor (dB)**	**Total PSD (dBm/500kHz)**	**Limit (dBm/500kHz)**	**Verdict**
NVNT	a	5745	-6.58	0	-6.58	30	Pass
NVNT	a	5785	-6.99	0	-6.99	30	Pass
NVNT	a	5825	-7.25	0	-7.25	30	Pass
NVNT	n20	5745	-7.04	0	-7.04	30	Pass
NVNT	n20	5785	-7.17	0	-7.17	30	Pass
NVNT	n20	5825	-7.75	0	-7.75	30	Pass
NVNT	n40	5755	-10.12	0	-10.12	30	Pass
NVNT	n40	5795	-9.29	0	-9.29	30	Pass
NVNT	ac20	5745	-8.13	0	-8.13	30	Pass
NVNT	ac20	5785	-8.01	0	-8.01	30	Pass
NVNT	ac20	5825	-8.39	0	-8.39	30	Pass
NVNT	ac40	5755	-10.48	0	-10.48	30	Pass
NVNT	ac40	5795	-10.52	0	-10.52	30	Pass
NVNT	ac80	5775	-13.82	0	-13.82	30	Pass

Test Graphs
PSD NVNT a 5180MHz

PSD NVNT a 5200MHz

PSD NVNT a 5240MHz


PSD NVNT a 5260MHz

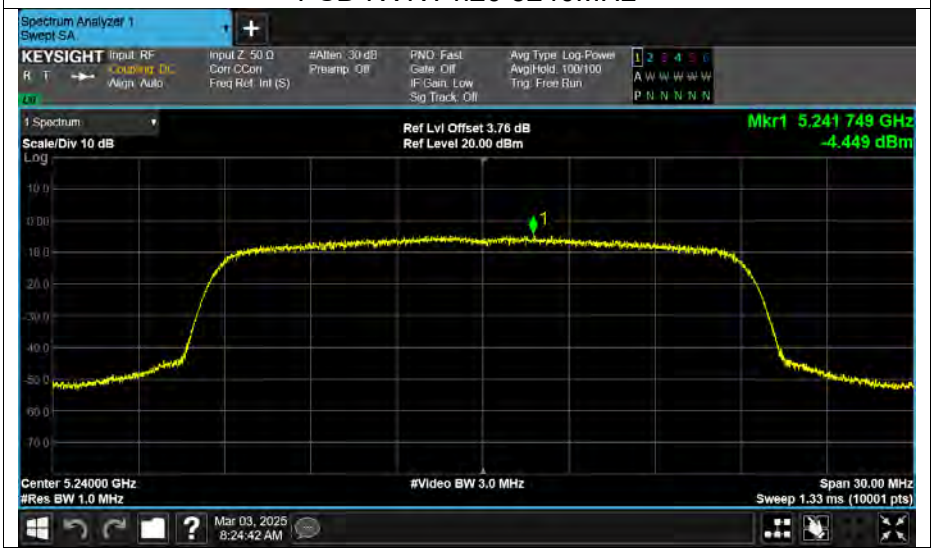
PSD NVNT a 5300MHz

PSD NVNT a 5320MHz

PSD NVNT n20 5180MHz

PSD NVNT n20 5200MHz

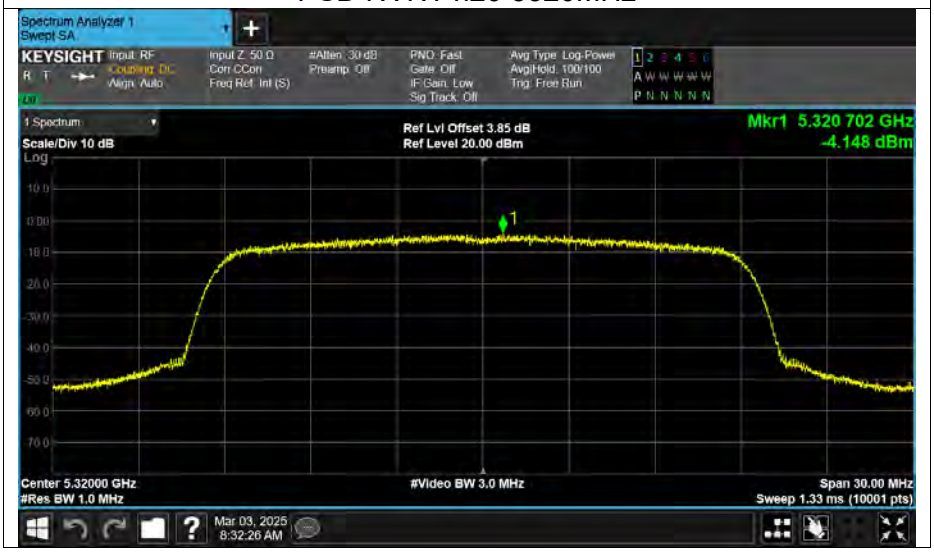
PSD NVNT n20 5240MHz



PSD NVNT n20 5260MHz

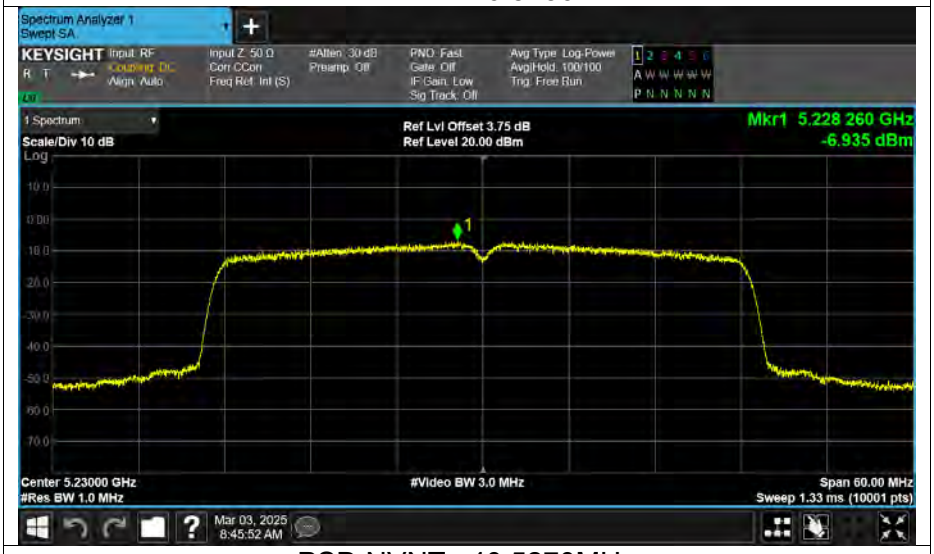
PSD NVNT n20 5300MHz

PSD NVNT n20 5320MHz

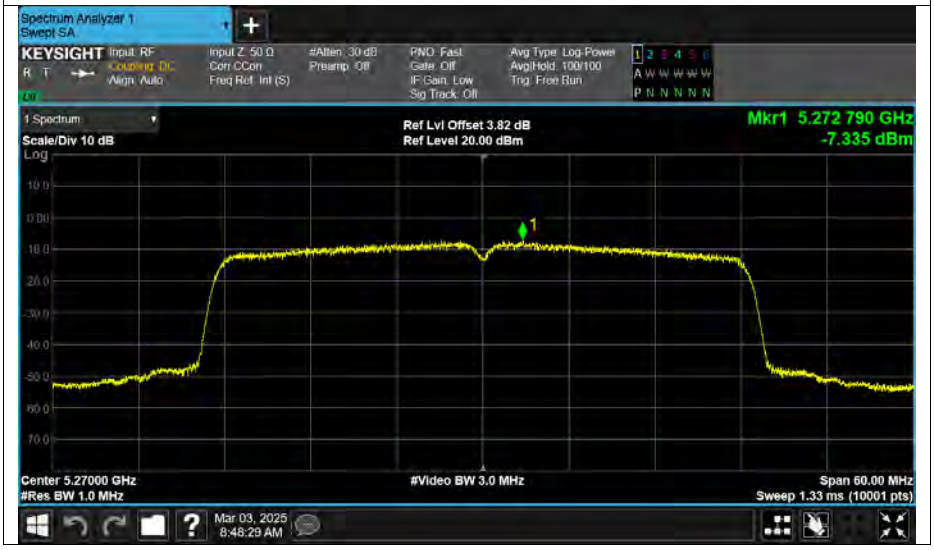


PSD NVNT n40 5190MHz

PSD NVNT n40 5230MHz



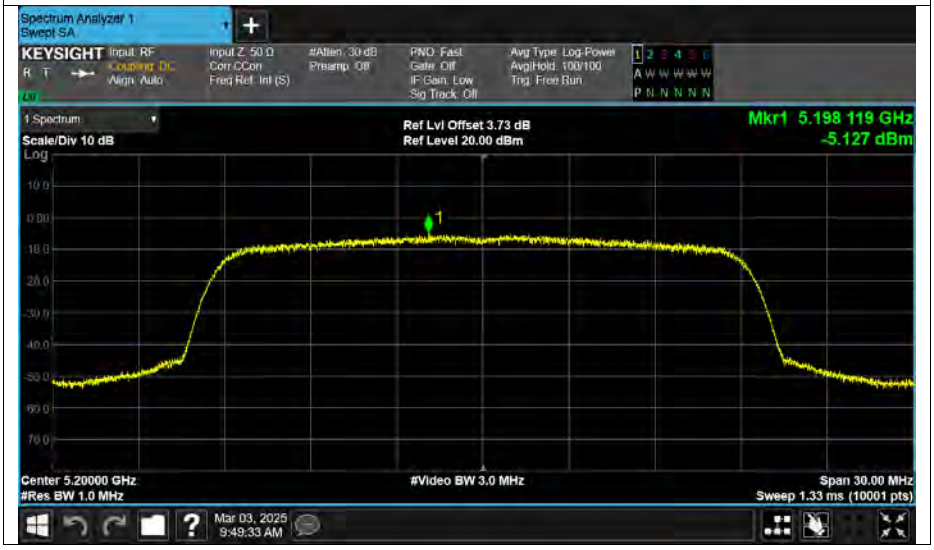
PSD NVNT n40 5270MHz



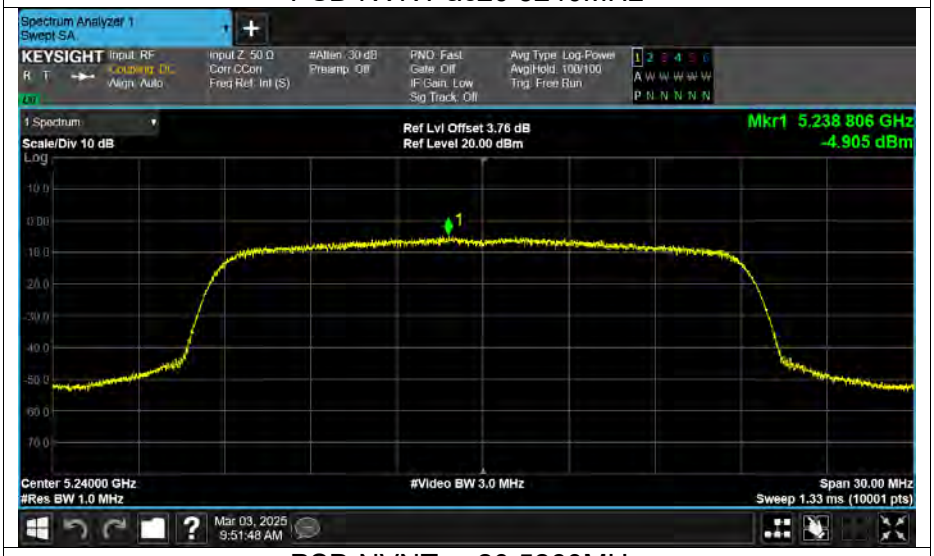
PSD NVNT n40 5310MHz

PSD NVNT ac20 5180MHz

PSD NVNT ac20 5200MHz

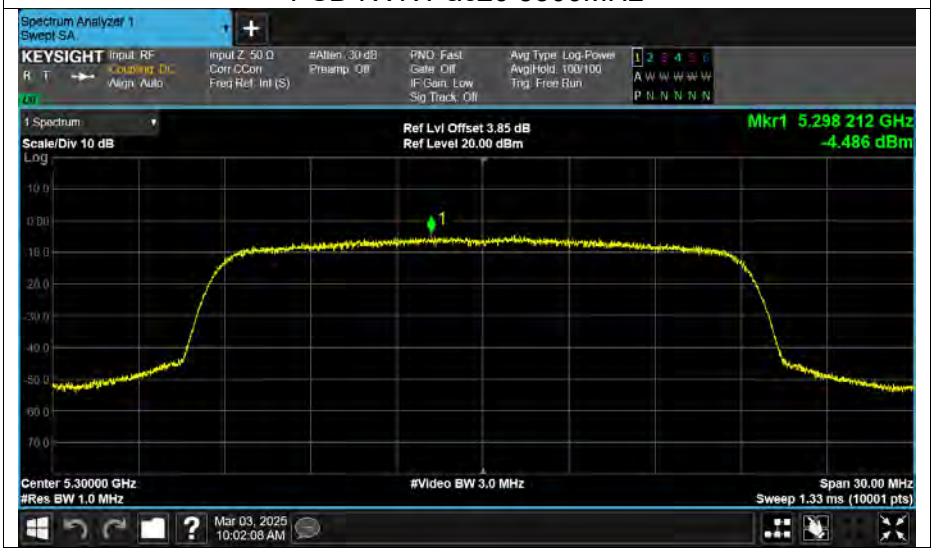


PSD NVNT ac20 5240MHz

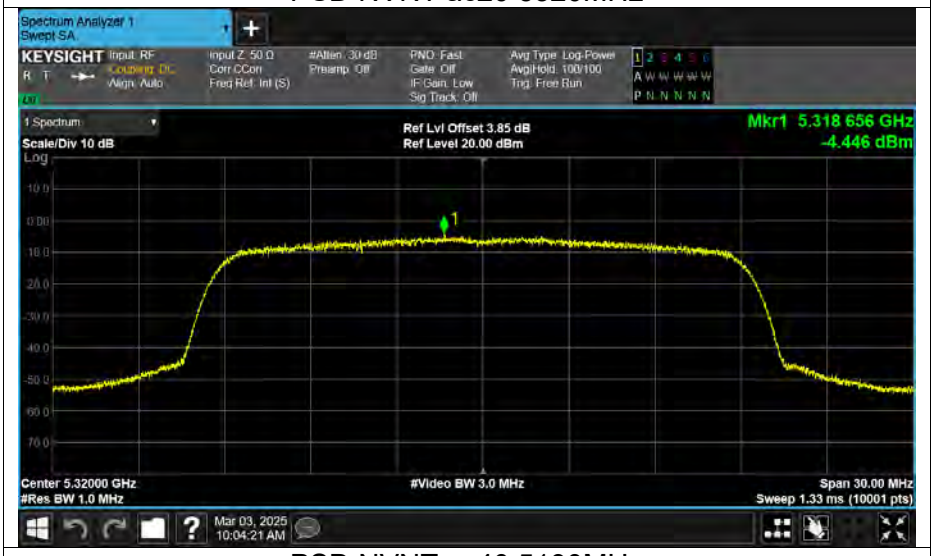


PSD NVNT ac20 5260MHz

PSD NVNT ac20 5300MHz



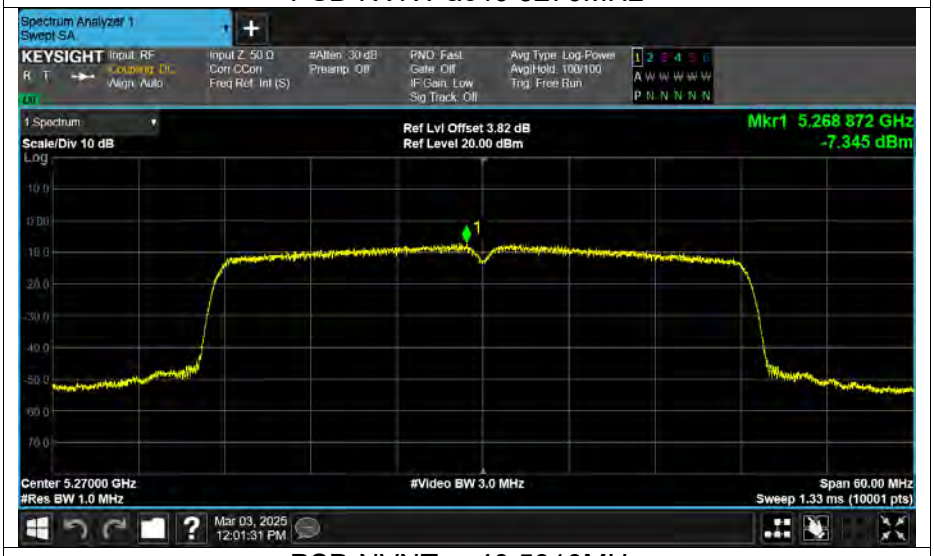
PSD NVNT ac20 5320MHz



PSD NVNT ac40 5190MHz

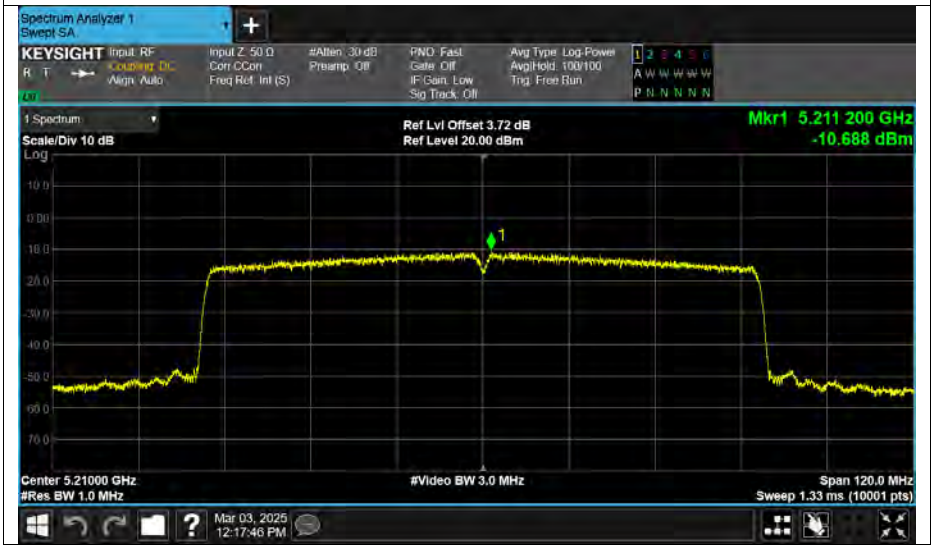
PSD NVNT ac40 5230MHz

PSD NVNT ac40 5270MHz

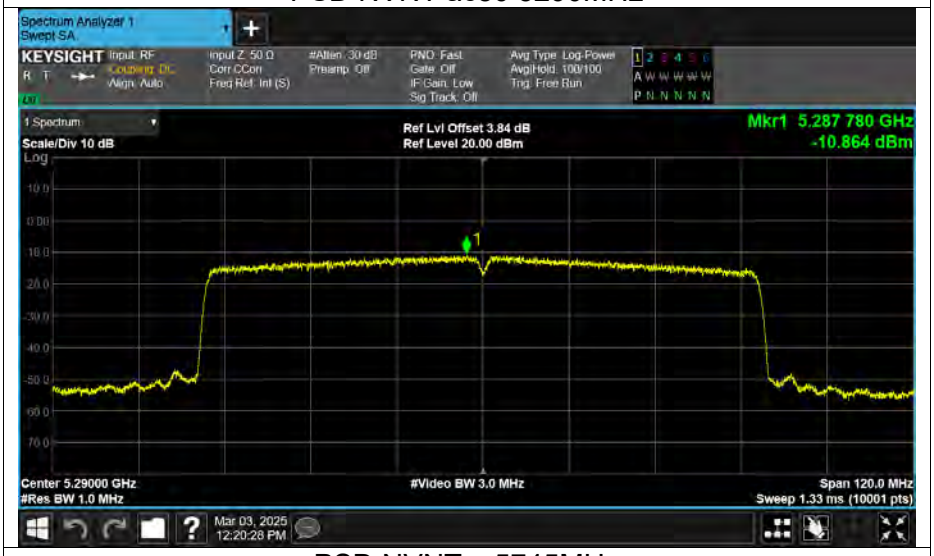


PSD NVNT ac40 5310MHz

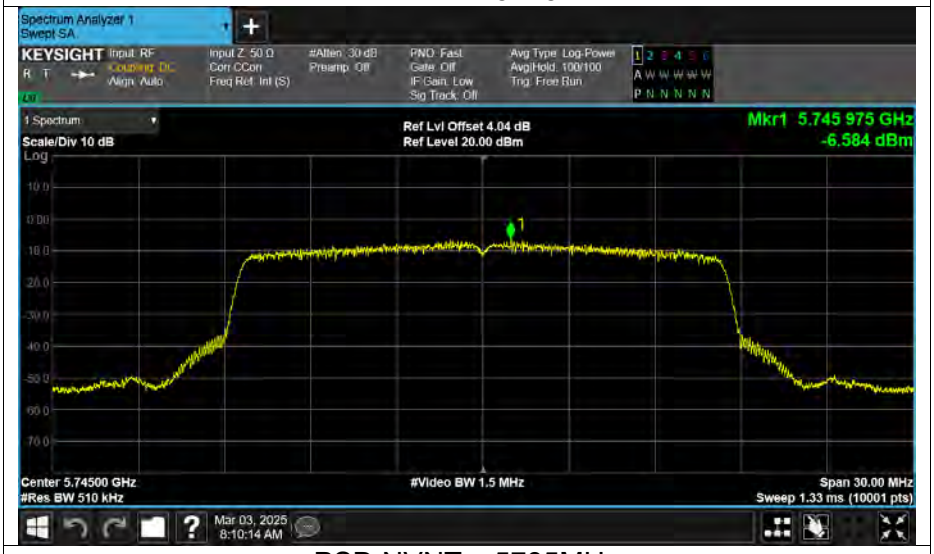
PSD NVNT ac80 5210MHz



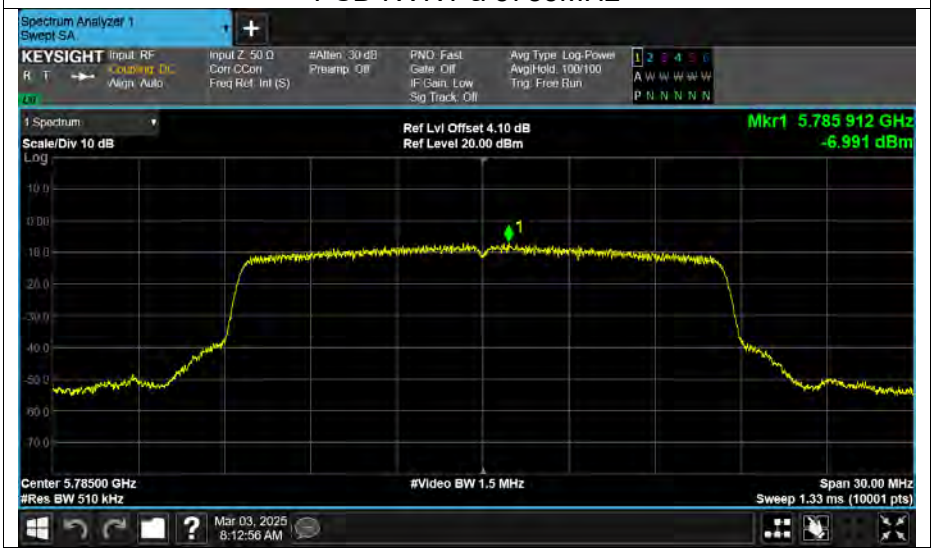
PSD NVNT ac80 5290MHz



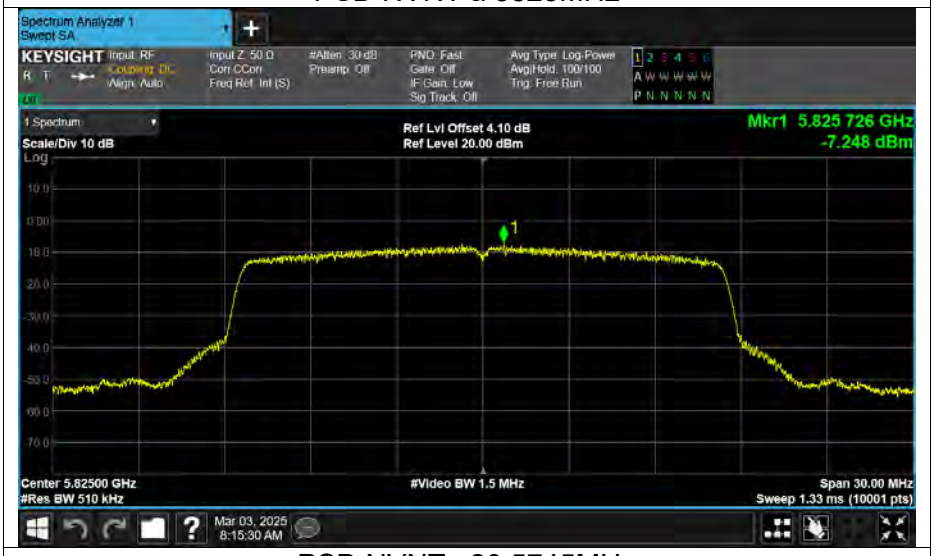
PSD NVNT a 5745MHz



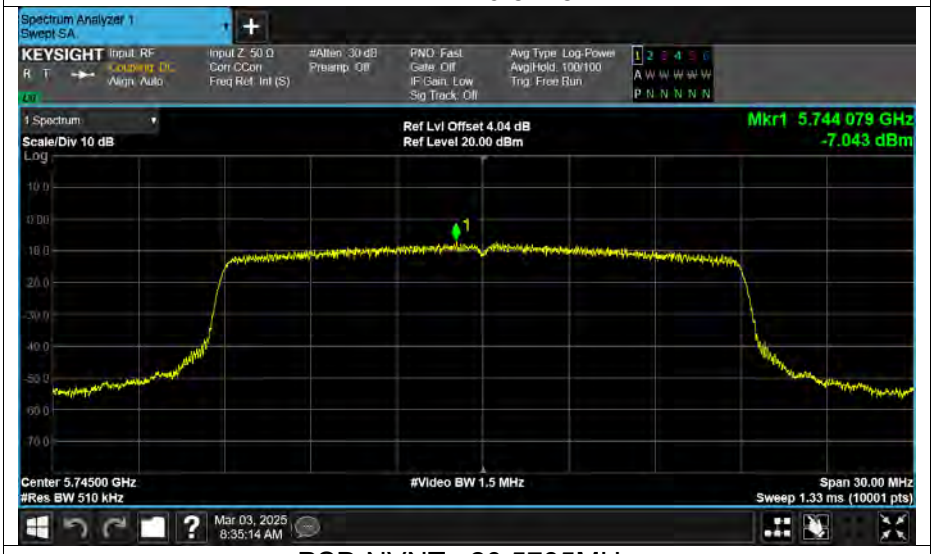
PSD NVNT a 5785MHz



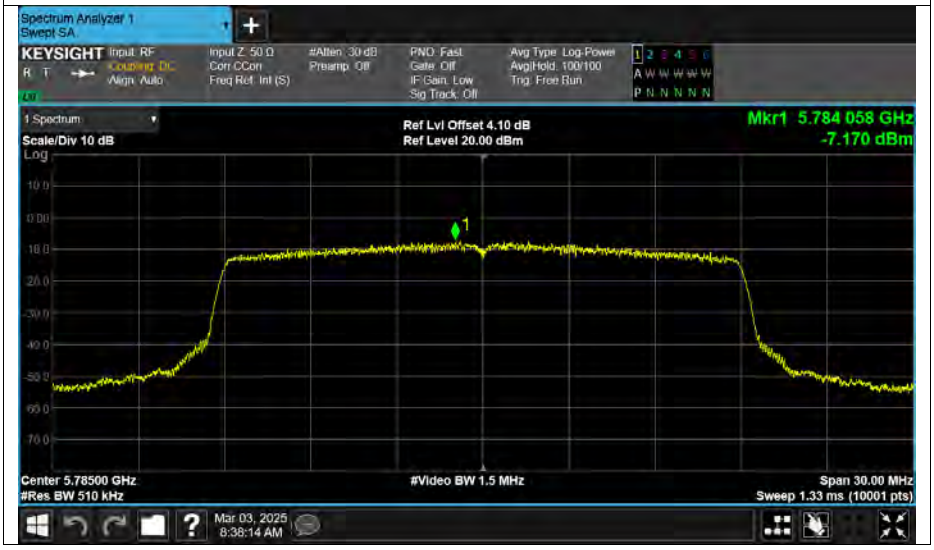
PSD NVNT a 5825MHz



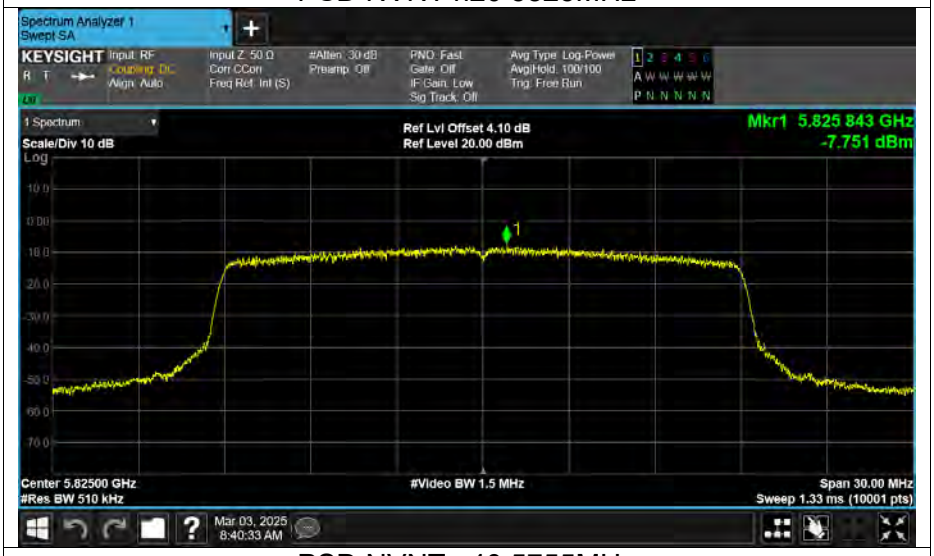
PSD NVNT n20 5745MHz



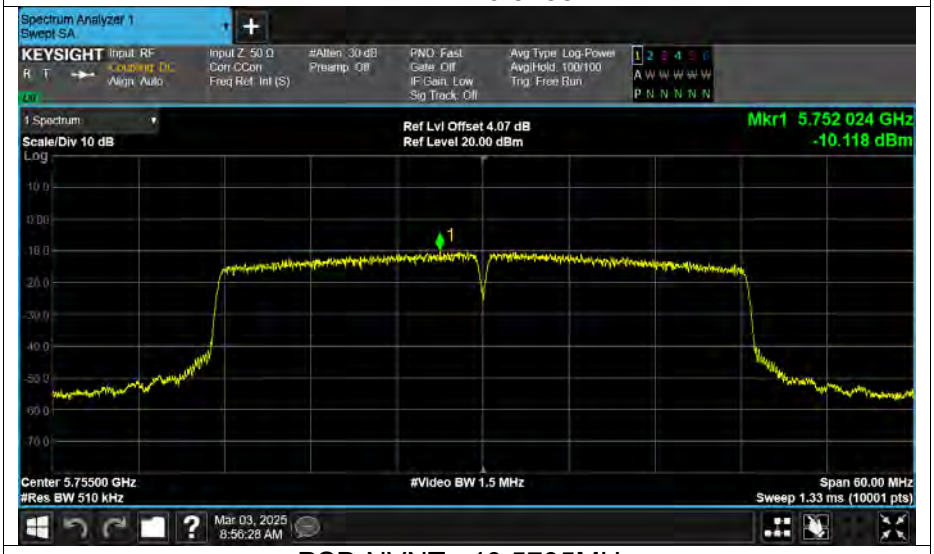
PSD NVNT n20 5785MHz



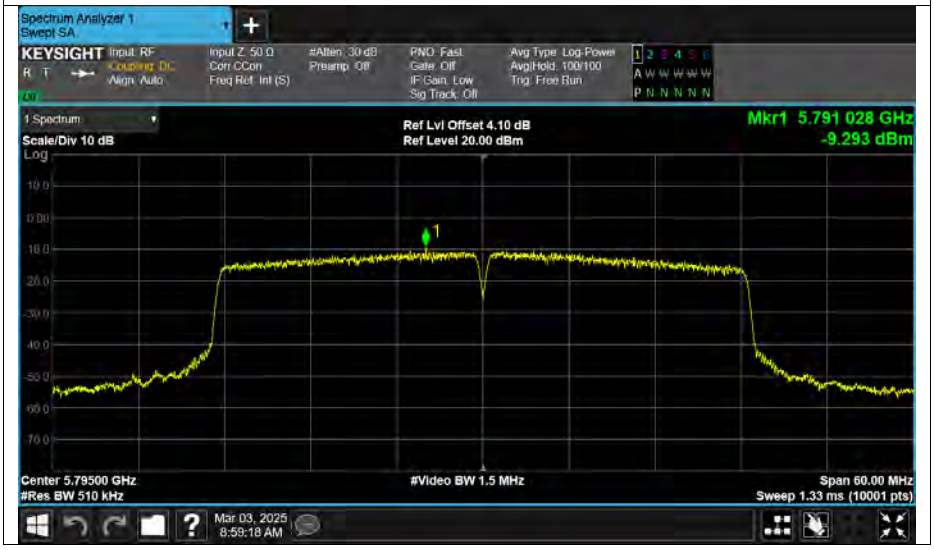
PSD NVNT n20 5825MHz



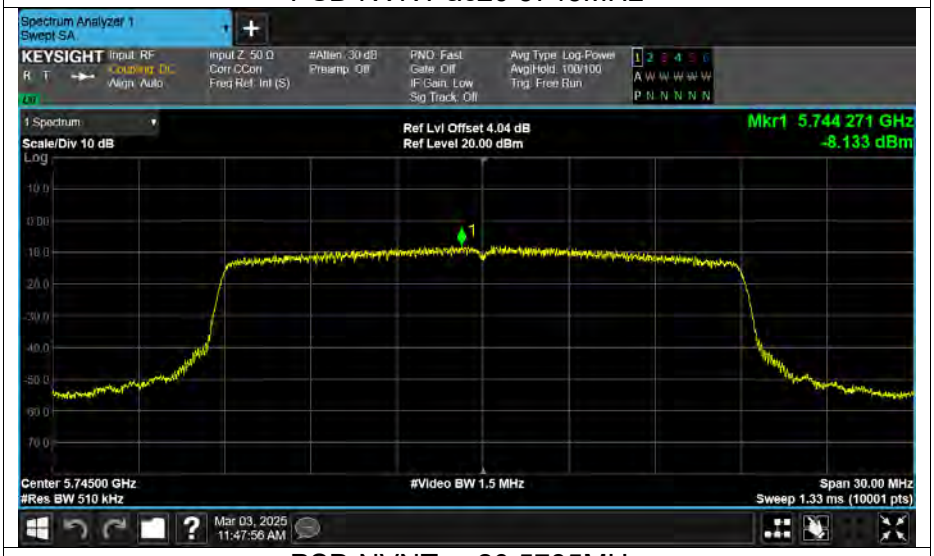
PSD NVNT n40 5755MHz



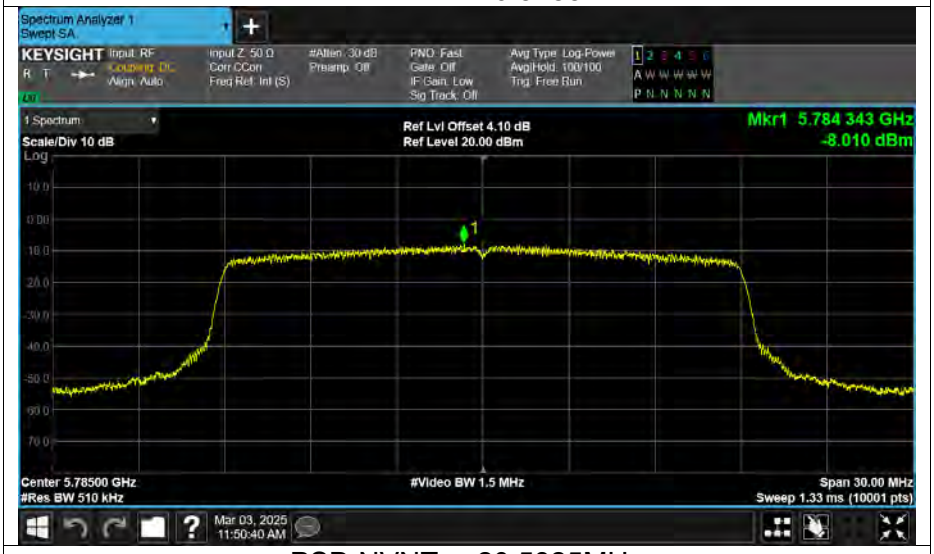
PSD NVNT n40 5795MHz



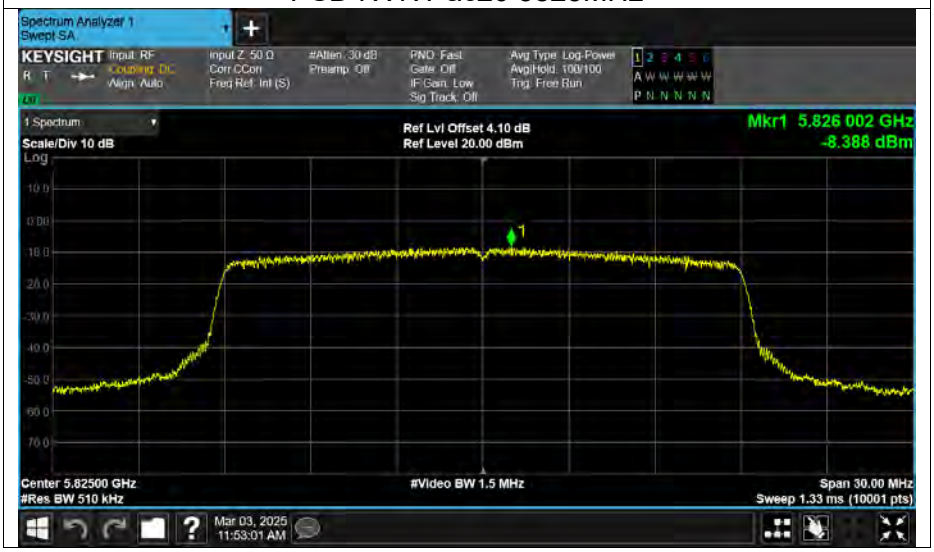
PSD NVNT ac20 5745MHz



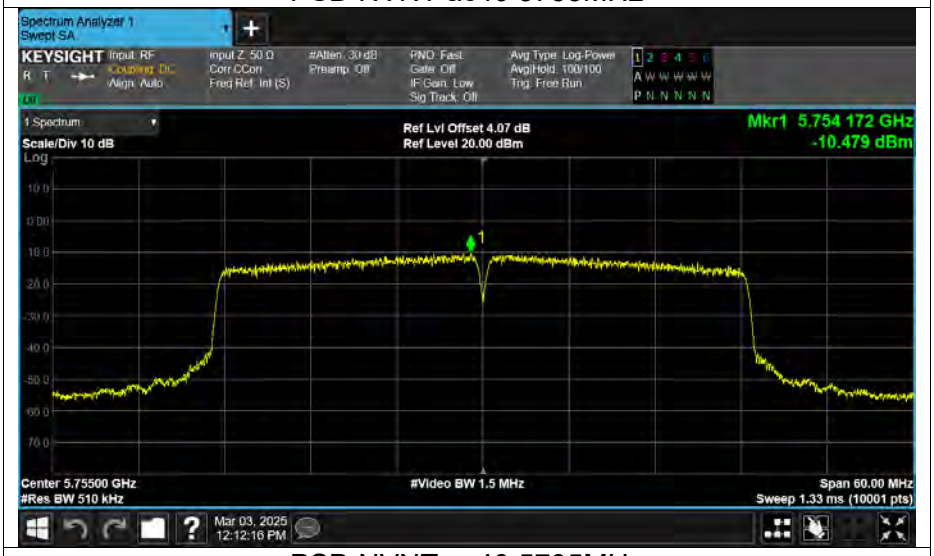
PSD NVNT ac20 5785MHz



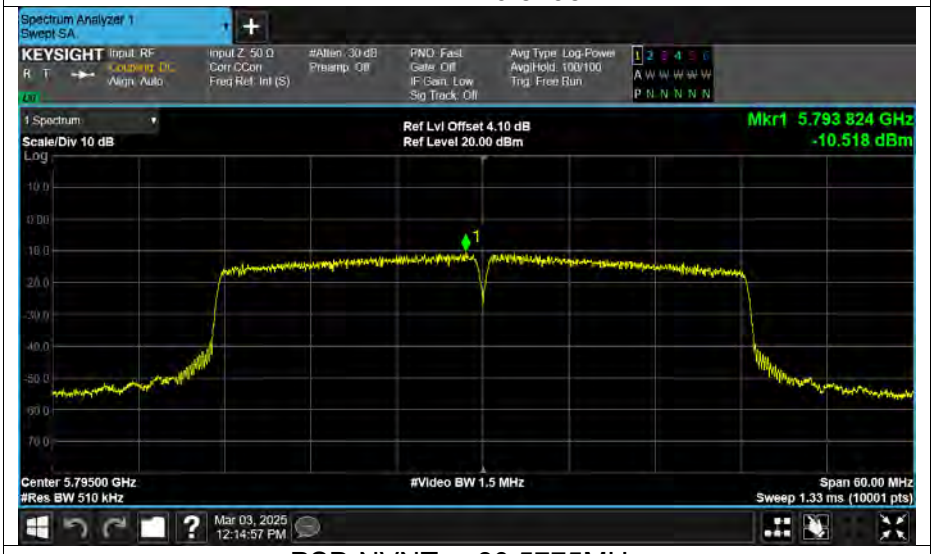
PSD NVNT ac20 5825MHz



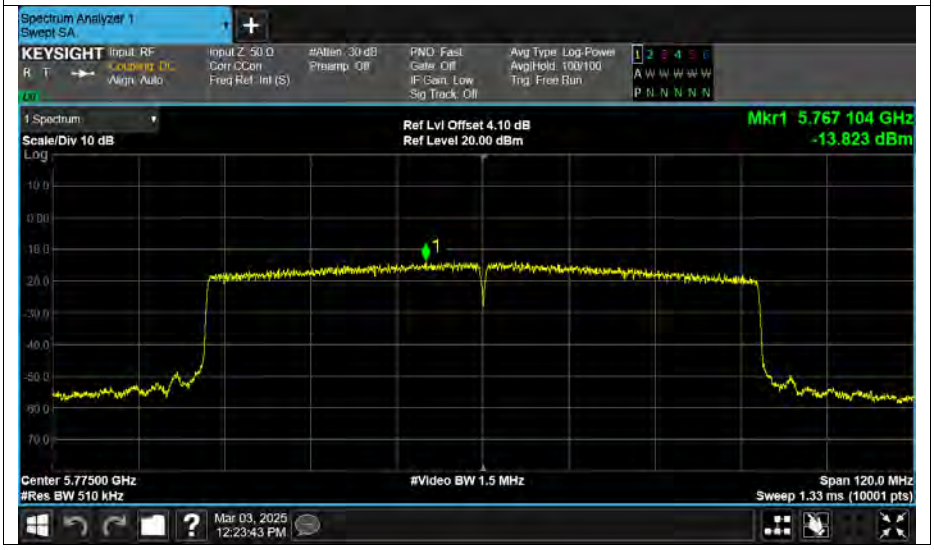
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz

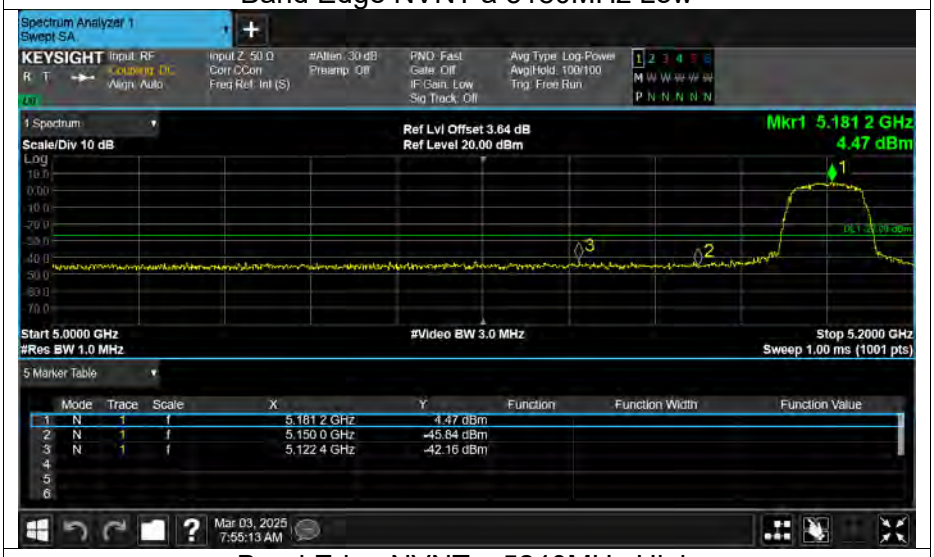


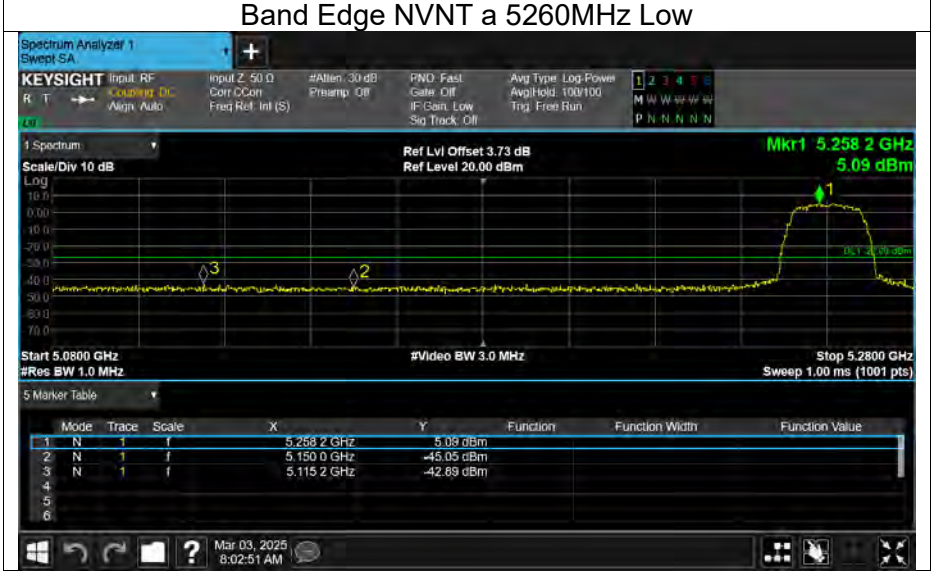
PSD NVNT ac80 5775MHz



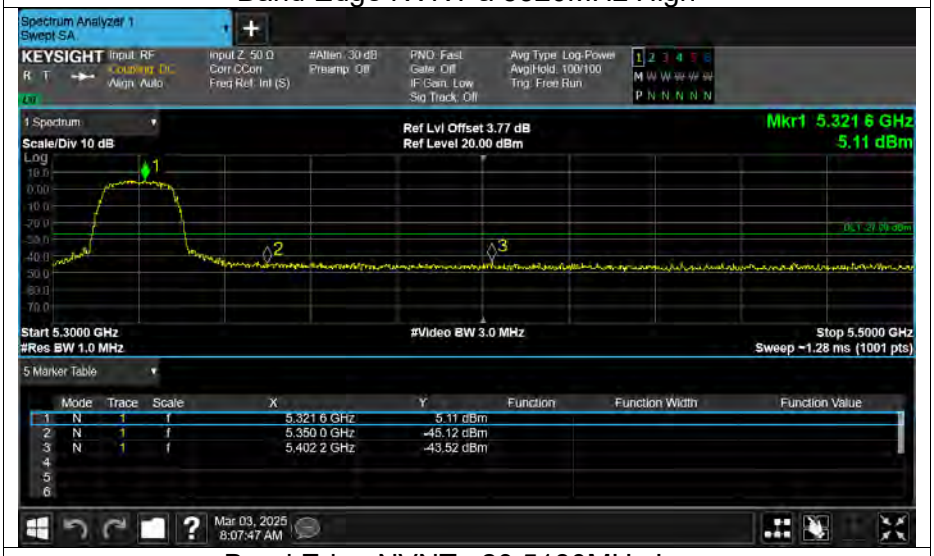
Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	-42.15	-27	Pass
NVNT	a	5240	-44.39	-27	Pass
NVNT	a	5260	-42.89	-27	Pass
NVNT	a	5320	-43.51	-27	Pass
NVNT	n20	5180	-42.6	-27	Pass
NVNT	n20	5240	-44.19	-27	Pass
NVNT	n20	5260	-43.41	-27	Pass
NVNT	n20	5320	-44.22	-27	Pass
NVNT	n40	5190	-42.65	-27	Pass
NVNT	n40	5230	-44.87	-27	Pass
NVNT	n40	5270	-42.68	-27	Pass
NVNT	n40	5310	-44.14	-27	Pass
NVNT	ac20	5180	-42.77	-27	Pass
NVNT	ac20	5240	-44.99	-27	Pass
NVNT	ac20	5260	-42.56	-27	Pass
NVNT	ac20	5320	-43.3	-27	Pass
NVNT	ac40	5190	-42.5	-27	Pass
NVNT	ac40	5230	-44.58	-27	Pass
NVNT	ac40	5270	-42.9	-27	Pass
NVNT	ac40	5310	-43.92	-27	Pass
NVNT	ac80	5210	-41.54	-27	Pass
NVNT	ac80	5290	-43.15	-27	Pass
Condition	**Mode**	**Frequency (MHz)**	**Max Value (dBm)**	**Limit (dBm)**	**Verdict**
NVNT	a	5745	-42.64	15.6	Pass
NVNT	a	5825	-43.02	15.6	Pass
NVNT	n20	5745	-42.83	15.6	Pass
NVNT	n20	5825	-42.9	15.6	Pass
NVNT	n40	5755	-39.72	15.6	Pass
NVNT	n40	5795	-43.79	15.6	Pass
NVNT	ac20	5745	-43.21	15.6	Pass
NVNT	ac20	5825	-42.84	15.6	Pass
NVNT	ac40	5755	-36.82	15.6	Pass
NVNT	ac40	5795	-43.59	15.6	Pass
NVNT	ac80	5775	-38.27	15.6	Pass

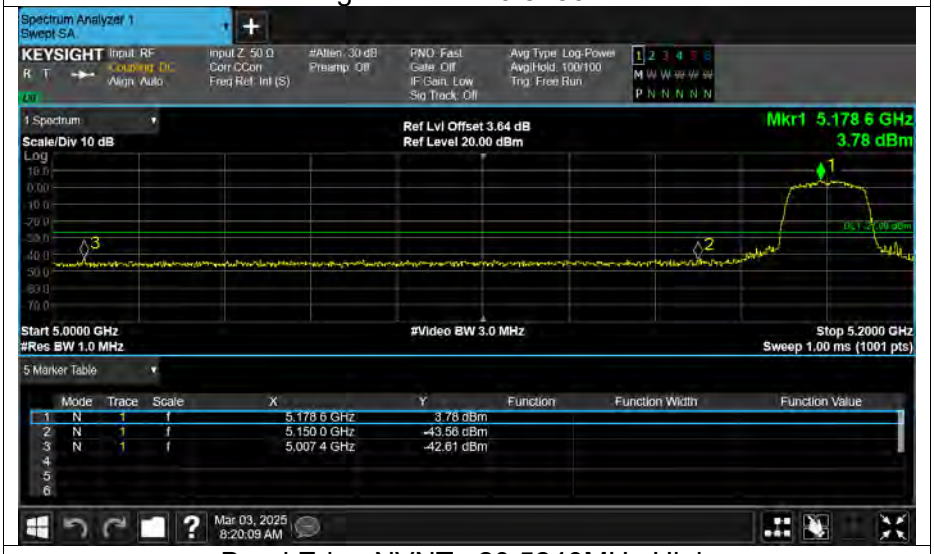
Test Graphs
Band Edge NVNT a 5180MHz Low

Band Edge NVNT a 5240MHz High

Band Edge NVNT a 5260MHz Low


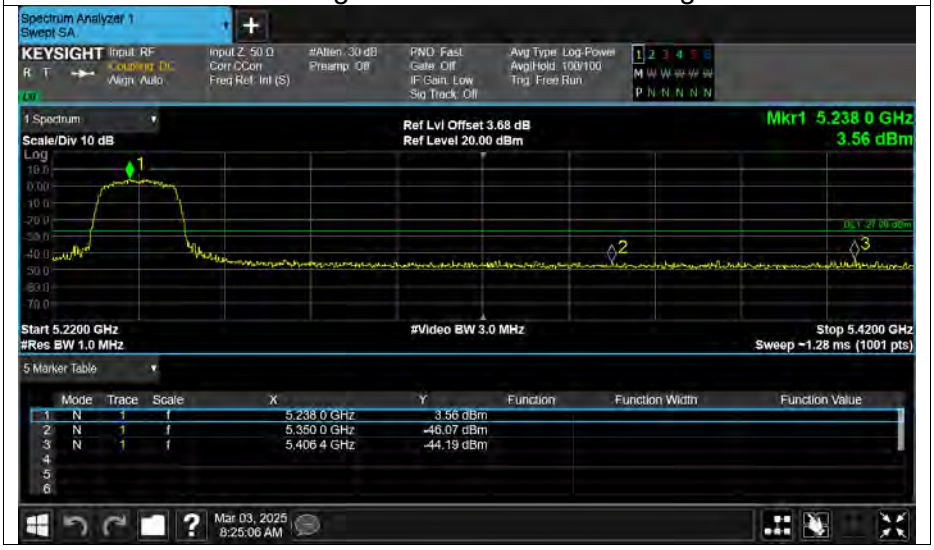
Band Edge NVNT a 5320MHz High



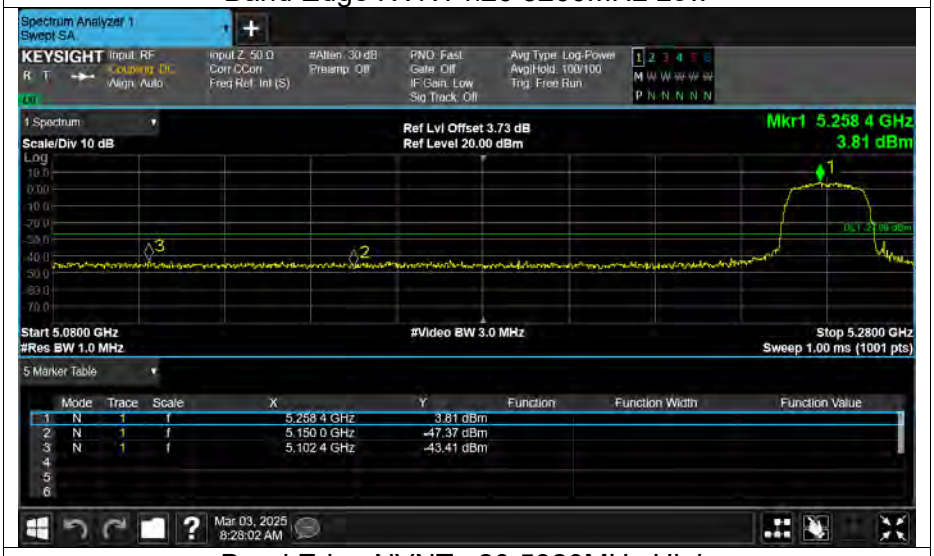
Band Edge NVNT n20 5180MHz Low



Band Edge NVNT n20 5240MHz High

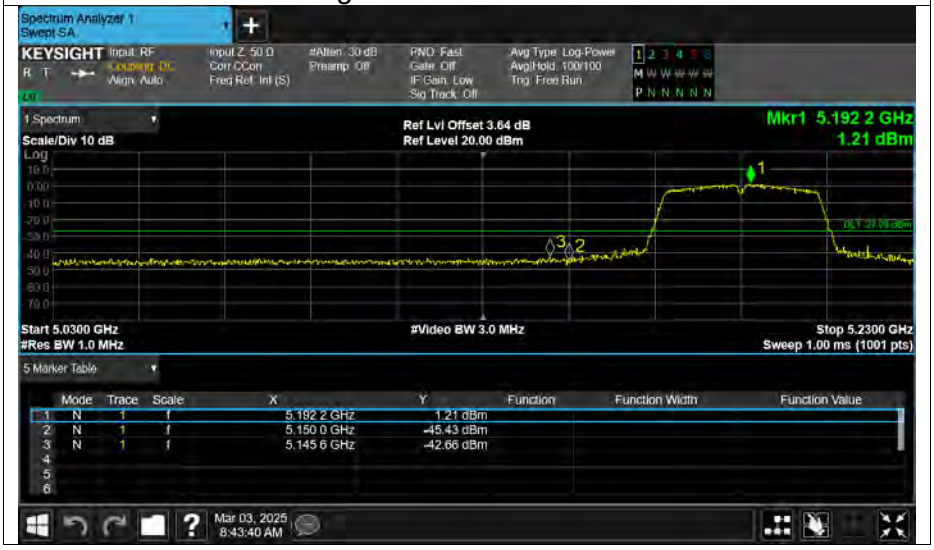


Band Edge NVNT n20 5260MHz Low

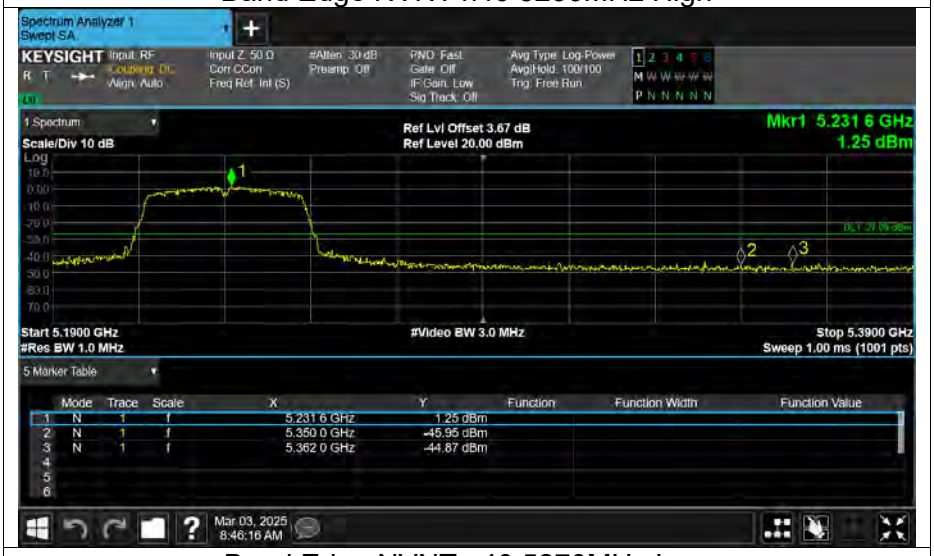


Band Edge NVNT n20 5320MHz High

Band Edge NVNT n40 5190MHz Low



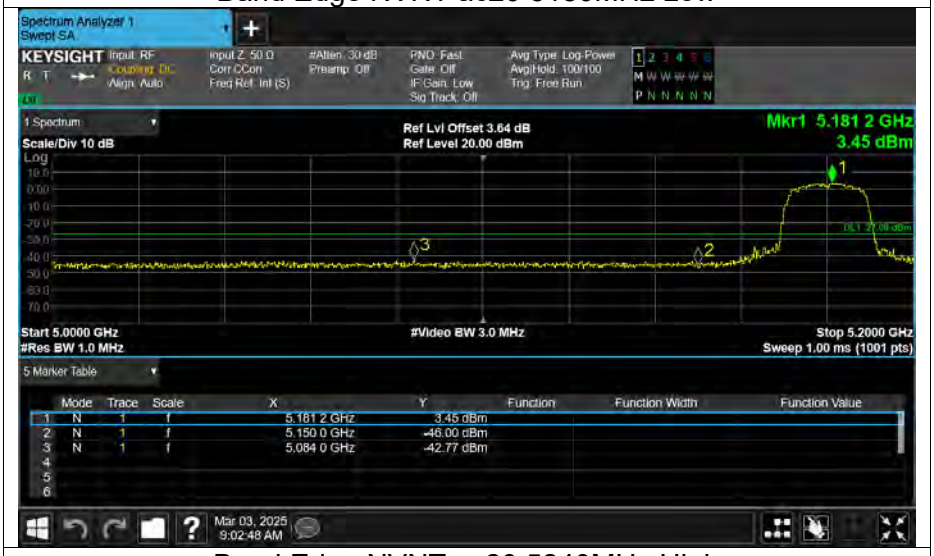
Band Edge NVNT n40 5230MHz High



Band Edge NVNT n40 5270MHz Low

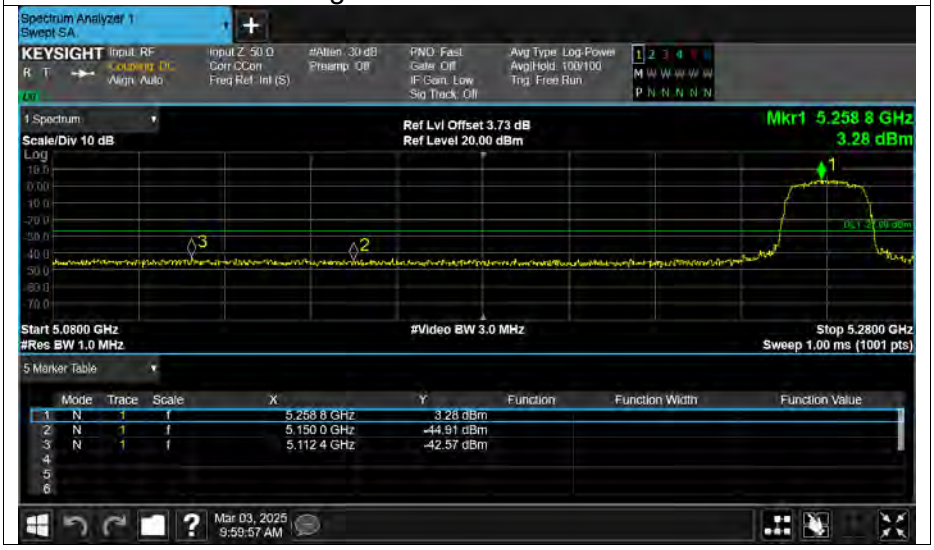
Band Edge NVNT n40 5310MHz High

Band Edge NVNT ac20 5180MHz Low

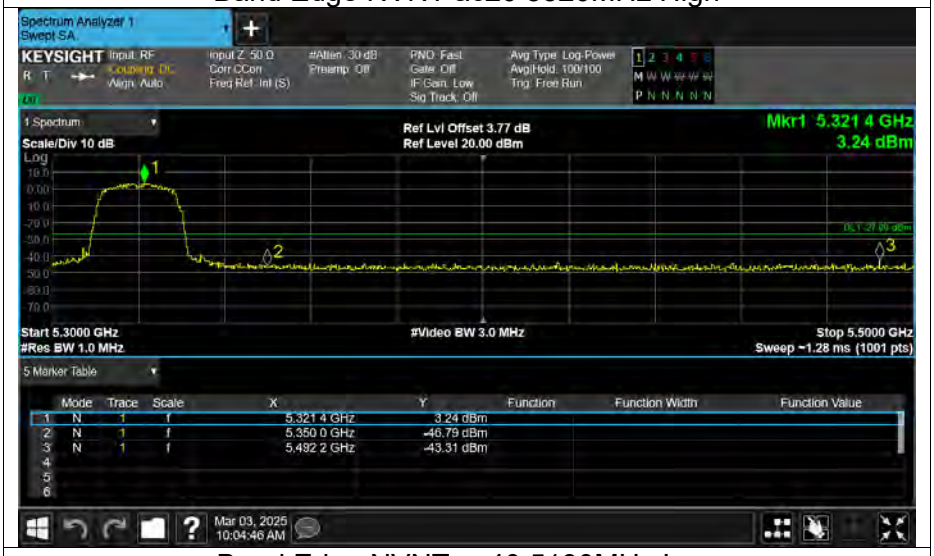


Band Edge NVNT ac20 5240MHz High

Band Edge NVNT ac20 5260MHz Low



Band Edge NVNT ac20 5320MHz High

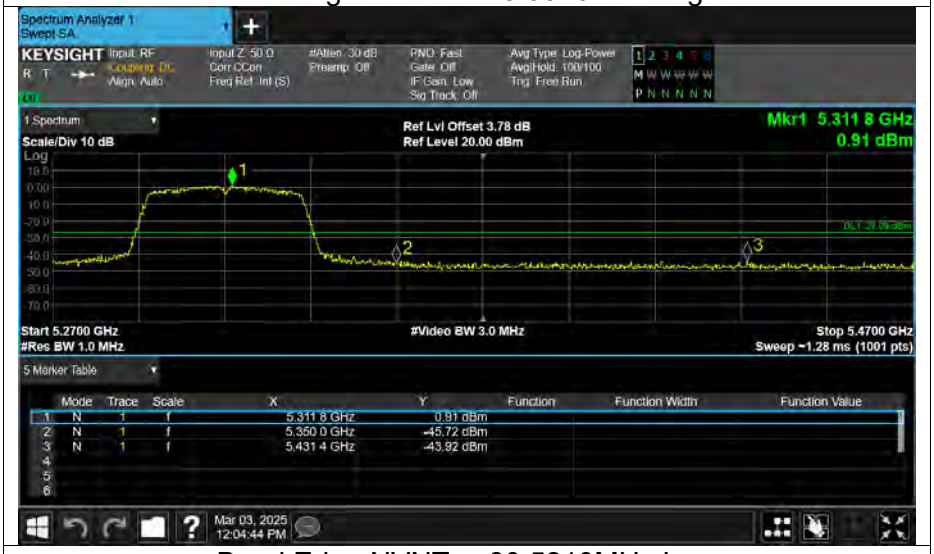


Band Edge NVNT ac40 5190MHz Low

Band Edge NVNT ac40 5230MHz High

Band Edge NVNT ac40 5270MHz Low

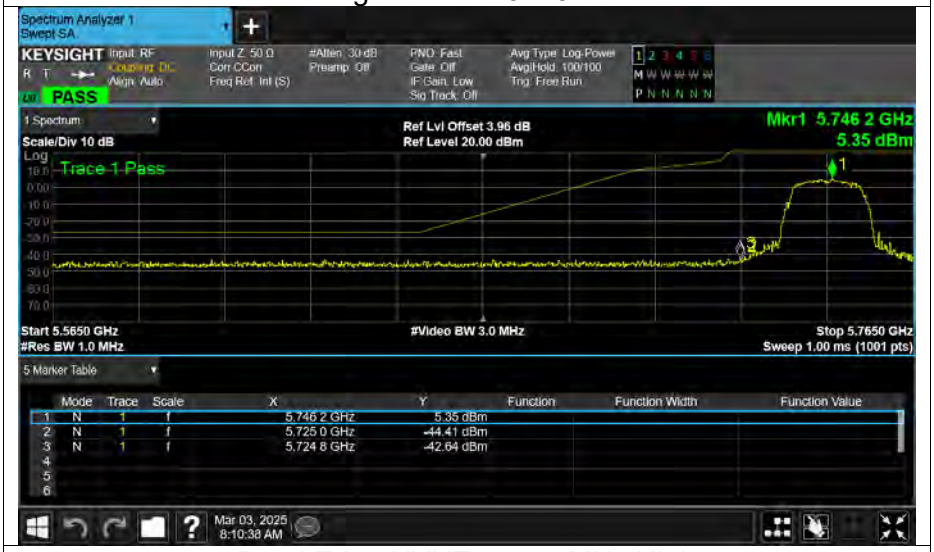
Band Edge NVNT ac40 5310MHz High



Band Edge NVNT ac80 5210MHz Low

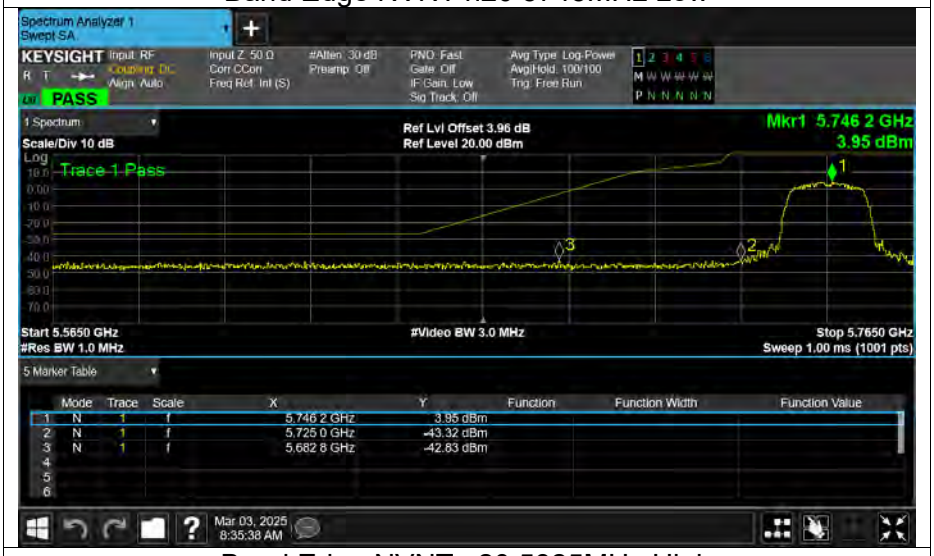
Band Edge NVNT ac80 5290MHz High

Band Edge NVNT a 5745MHz Low

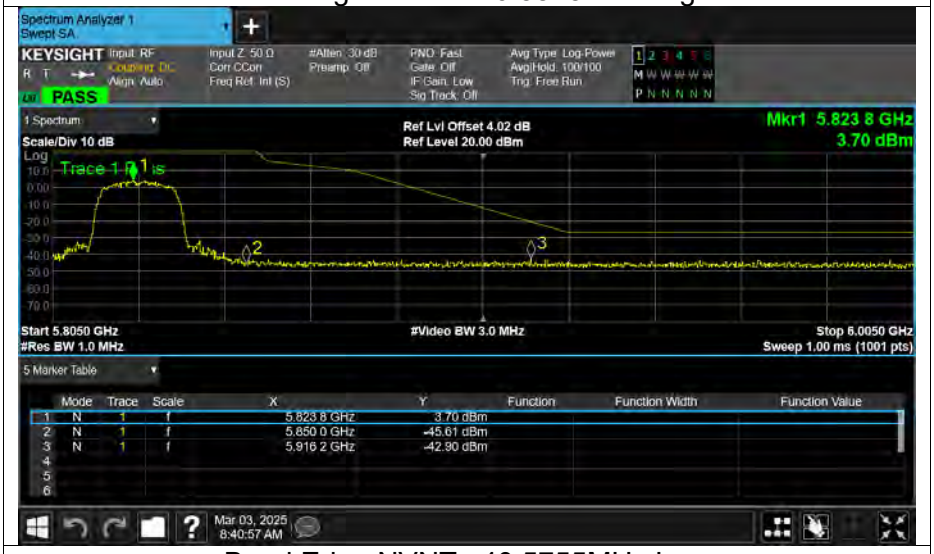


Band Edge NVNT a 5825MHz High

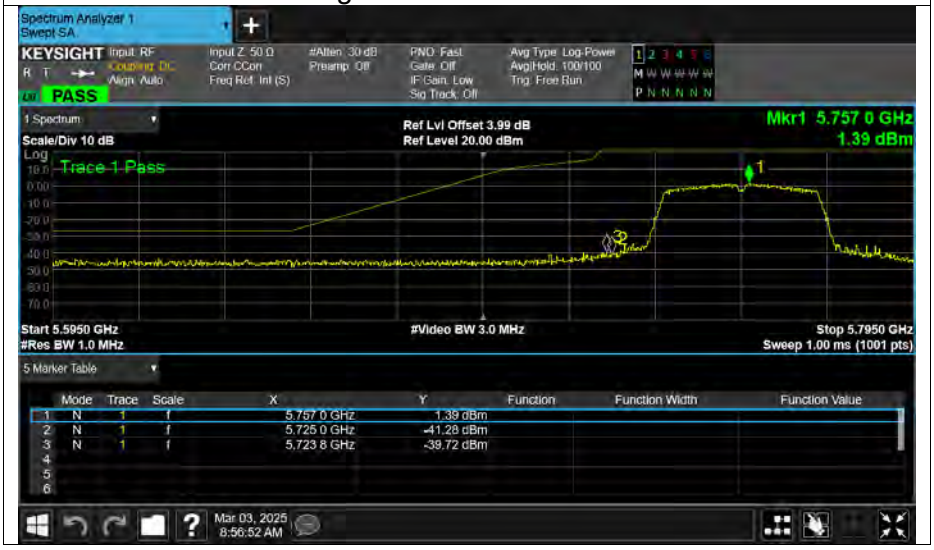
Band Edge NVNT n20 5745MHz Low



Band Edge NVNT n20 5825MHz High

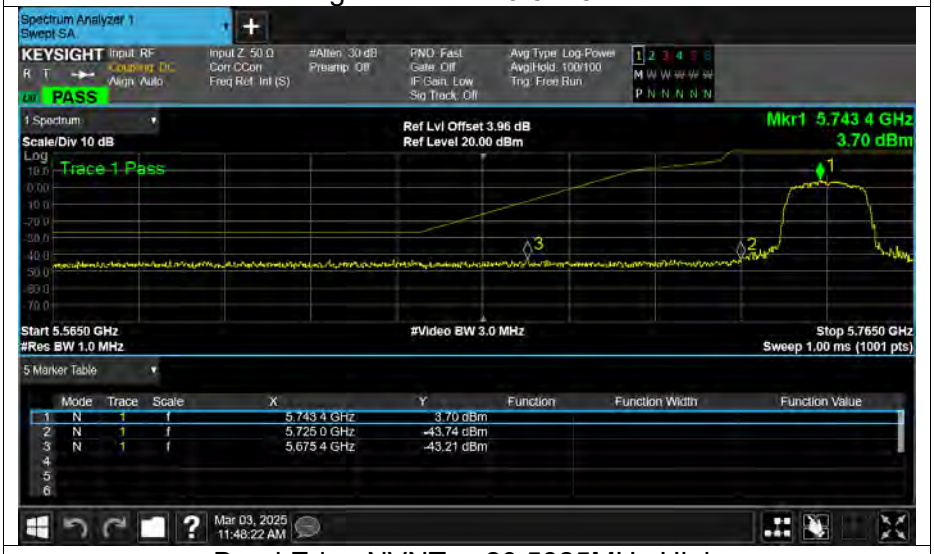


Band Edge NVNT n40 5755MHz Low



Band Edge NVNT n40 5795MHz High

Band Edge NVNT ac20 5745MHz Low



Band Edge NVNT ac20 5825MHz High

Band Edge NVNT ac40 5755MHz Low

Band Edge NVNT ac40 5795MHz High

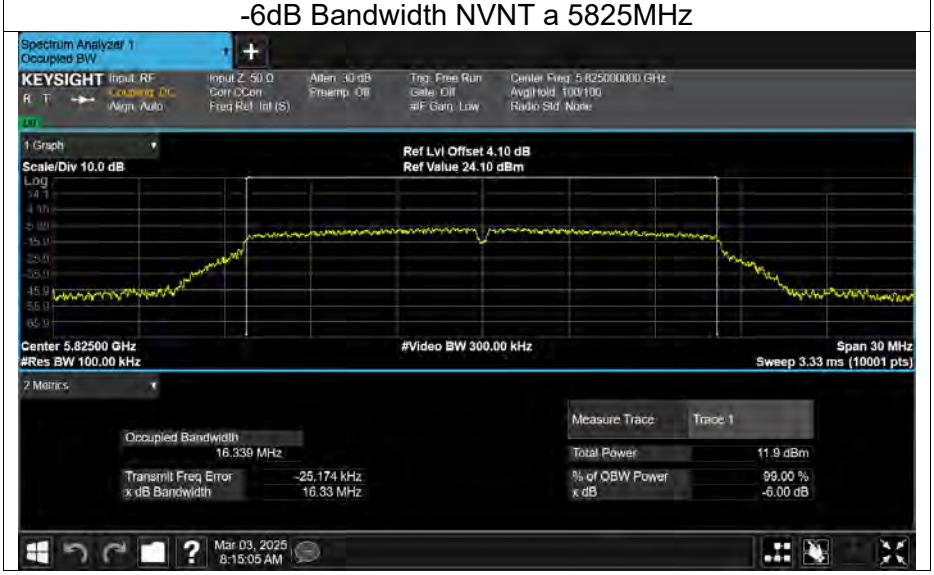
Band Edge NVNT ac80 5775MHz Low

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.291	0.5	Pass
NVNT	a	5785	16.32	0.5	Pass
NVNT	a	5825	16.328	0.5	Pass
NVNT	n20	5745	17.572	0.5	Pass
NVNT	n20	5785	17.585	0.5	Pass
NVNT	n20	5825	17.561	0.5	Pass
NVNT	n40	5755	36.054	0.5	Pass
NVNT	n40	5795	35.934	0.5	Pass
NVNT	ac20	5745	17.585	0.5	Pass
NVNT	ac20	5785	17.557	0.5	Pass
NVNT	ac20	5825	17.573	0.5	Pass
NVNT	ac40	5755	35.461	0.5	Pass
NVNT	ac40	5795	35.677	0.5	Pass
NVNT	ac80	5775	75.941	0.5	Pass

Test Graphs
-6dB Bandwidth NVNT a 5745MHz

-6dB Bandwidth NVNT a 5785MHz

-6dB Bandwidth NVNT a 5825MHz


-6dB Bandwidth NVNT n20 5745MHz

-6dB Bandwidth NVNT n20 5785MHz

-6dB Bandwidth NVNT n20 5825MHz

-6dB Bandwidth NVNT n40 5755MHz

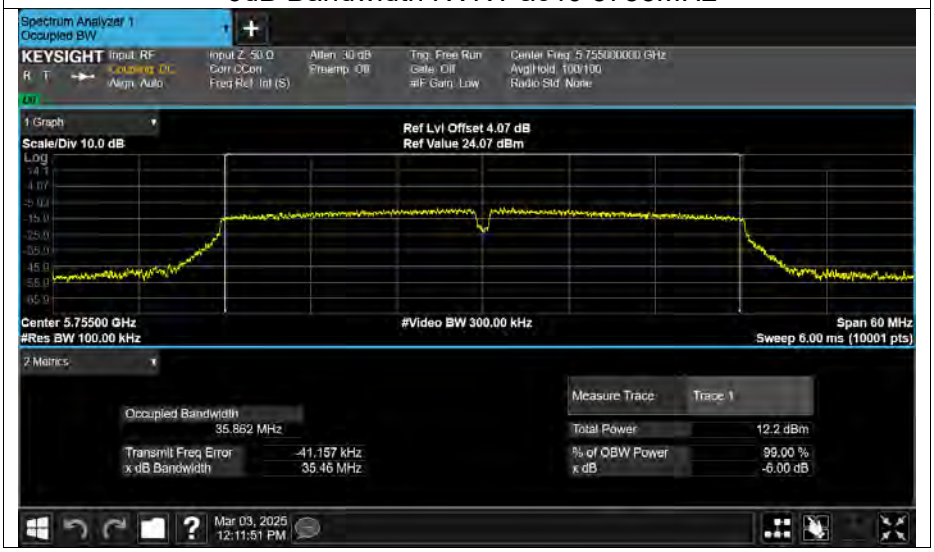
-6dB Bandwidth NVNT n40 5795MHz

-6dB Bandwidth NVNT ac20 5745MHz

-6dB Bandwidth NVNT ac20 5785MHz

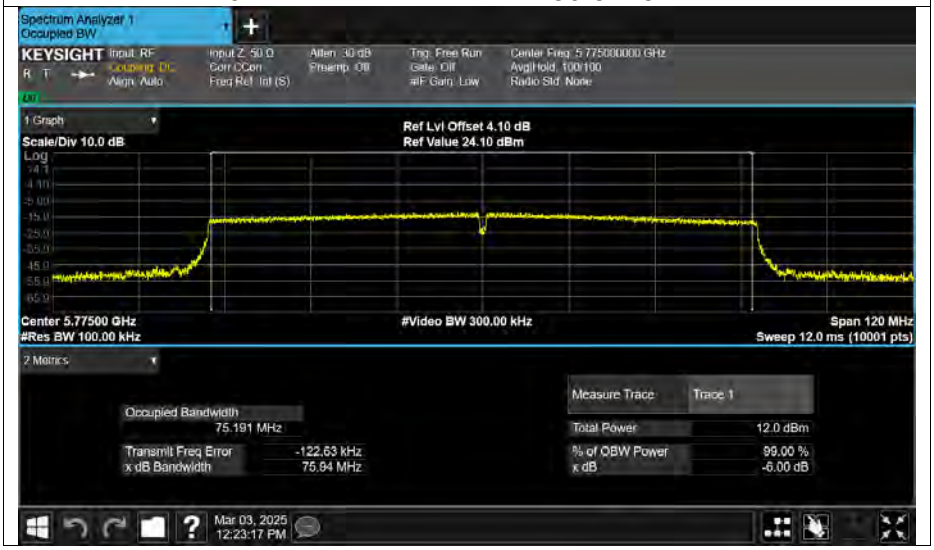
-6dB Bandwidth NVNT ac20 5825MHz

-6dB Bandwidth NVNT ac40 5755MHz



-6dB Bandwidth NVNT ac40 5795MHz

-6dB Bandwidth NVNT ac80 5775MHz



APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID & IC.

APPENDIX III - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see LGT25B037EM01_APPENDIX II.

※※※※※END OF THE REPORT※※※※※