TEST REPORT

Report No.:	BCTC2504164553-4E
Applicant:	Shenzhen Qichang Intelligent Technology Co., Ltd
Product Name:	Smart Phone
Test Model:	F110 Pro
Tested Date:	2025-04-07 to 2025-06-23
Issued Date:	2025-06-23

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2BAK2-F110PRO

Product Name:	Smart Phone
Trademark:	FOSSIBOT
Model/Type reference:	F110 Pro F110, F110 Plus, F110 Ultra, F110 P, iHunt Titan Music P11001 ULTRA, iHunt Titan Music P11001 ULTRA 5G
Prepared For:	Shenzhen Qichang Intelligent Technology Co., Ltd
Address:	Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang , Shenzhen
Manufacturer:	Shenzhen Qichang Intelligent Technology Co., Ltd
Address:	Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang , Shenzhen
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2025-04-07
Sample tested Date:	2025-04-07 to 2025-06-23
Issue Date:	2025-06-23
Report No.:	BCTC2504164553-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

Table Of Content

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2504164553-4E	2025-06-23	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

Note: “N/A” means not applicable in this report.

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59℃

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	F110 Pro F110, F110 Plus, F110 Ultra, F110 P, iHunt Titan Music P11001 ULTRA, iHunt Titan Music P11001 ULTRA 5G
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	E393_F2_MB_V1.2
Software Version:	FOSSiBOT_F110 Pro_F
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna
Antenna Gain:	0.22 dBi Remark: ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 9V from adapter/DC 3.87V from battery
Adapter Information:	Model: QZ-0180AA2H Input: 100-240V~50/60Hz 0.5A Output: DC 5.0V 3.0A 15.0W or DC 9.0V 2.22A 20.0W Max. or DC 12.0V 1.67A 20.0W Max.

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	FOSSiBOT	F110 Pro	N/A	EUT
E-2	Adapter	/	QZ-0180AA2H	N/A	Auxiliary
E-3	TF card	SanDisk	32G	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

5.1G

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

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

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

5.8G

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Carrier Frequency Channel	
Channel	Frequency (MHz)
155	5775

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	WIFI Link

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

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.
FCC Test Firm Registration Number: 712850
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR	102075	May 08, 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 14, 2025	May 13, 2026

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power metter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	Nov. 11. 2024	Nov. 10, 2025
Radio frequency control box	MAIWEI	MW200-RFCB	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

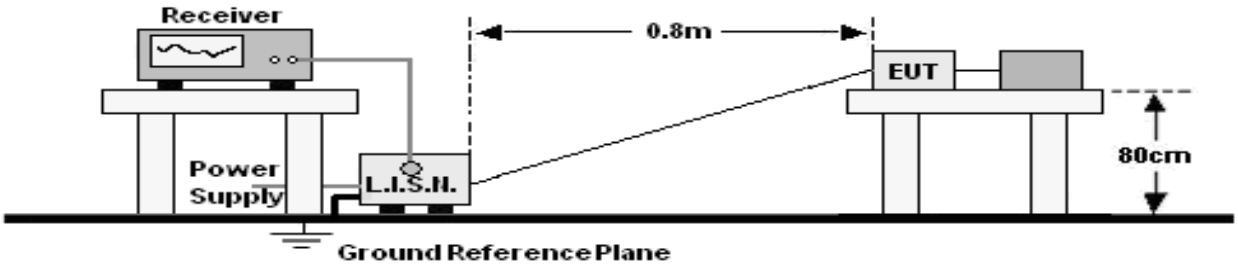
RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power metter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Communication test set	R&S	CMW500	126173	May 14, 2025	May 13, 2026
Radio frequency control box	MAIWEI	MW200-RFCB	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	Nov. 11. 2024	Nov. 10, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2025	May 20, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2026
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2025	May 20, 2026
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 14, 2025	May 13, 2026
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2025	May 20, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Communication test set	R&S	CMW500	126173	Nov. 11. 2024	Nov. 10, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-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
Notes: 1. *Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.		

6.3 Test Procedure

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

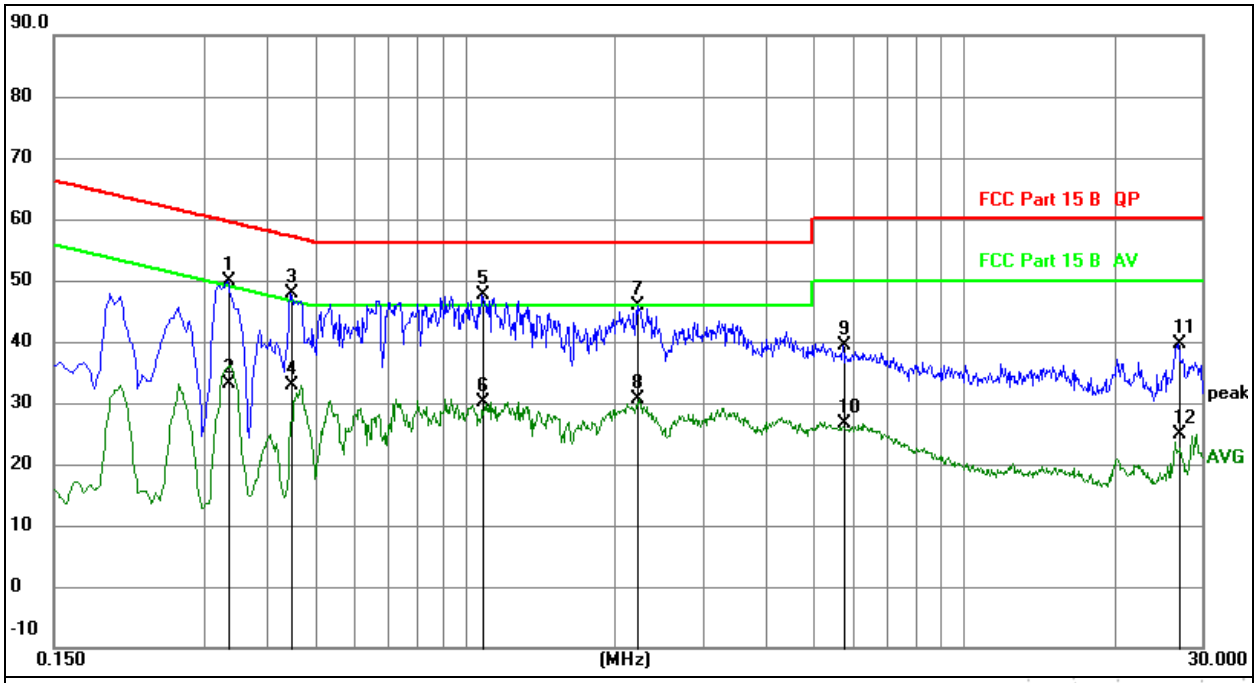
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 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.

6.5 Test Result

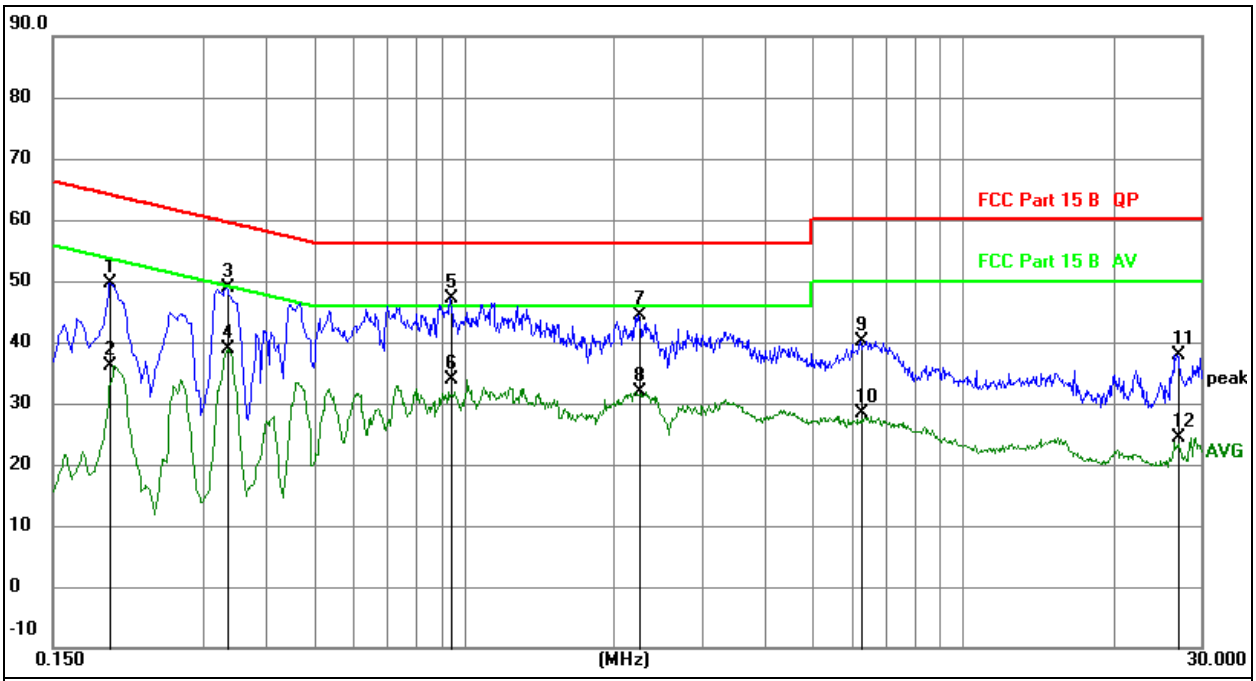
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.3345	29.75	20.07	49.82	59.34	-9.52	QP
2		0.3345	13.06	20.07	33.13	49.34	-16.21	AVG
3		0.4470	27.68	20.08	47.76	56.93	-9.17	QP
4		0.4470	12.72	20.08	32.80	46.93	-14.13	AVG
5	*	1.0859	27.46	20.09	47.55	56.00	-8.45	QP
6		1.0859	10.09	20.09	30.18	46.00	-15.82	AVG
7		2.2200	25.68	20.10	45.78	56.00	-10.22	QP
8		2.2200	10.44	20.10	30.54	46.00	-15.46	AVG
9		5.7390	19.19	20.15	39.34	60.00	-20.66	QP
10		5.7390	6.51	20.15	26.66	50.00	-23.34	AVG
11		26.9700	19.32	20.29	39.61	60.00	-20.39	QP
12		26.9700	4.63	20.29	24.92	50.00	-25.08	AVG

Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



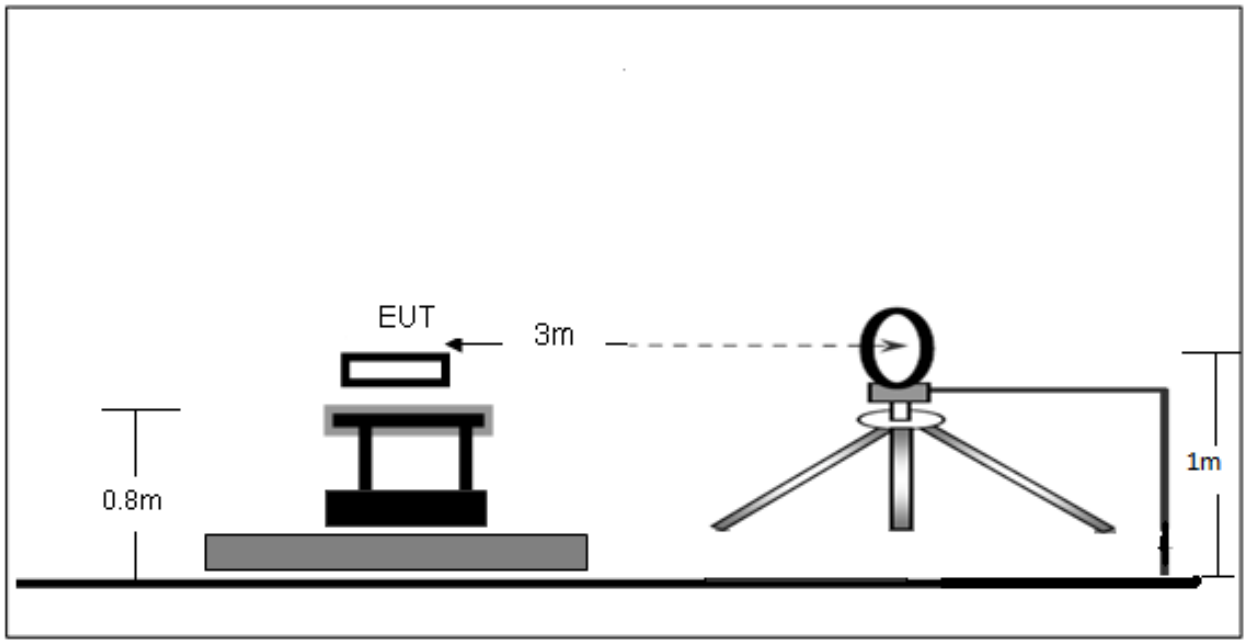
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1949	29.49	20.07	49.56	63.83	-14.27	QP
2		0.1949	16.09	20.07	36.16	53.83	-17.67	AVG
3		0.3345	28.89	20.07	48.96	59.34	-10.38	QP
4		0.3345	18.72	20.07	38.79	49.34	-10.55	AVG
5	*	0.9420	27.07	20.09	47.16	56.00	-8.84	QP
6		0.9420	13.68	20.09	33.77	46.00	-12.23	AVG
7		2.2470	24.20	20.10	44.30	56.00	-11.70	QP
8		2.2470	11.83	20.10	31.93	46.00	-14.07	AVG
9		6.2295	20.06	20.15	40.21	60.00	-19.79	QP
10		6.2295	8.16	20.15	28.31	50.00	-21.69	AVG
11		26.8800	17.71	20.29	38.00	60.00	-22.00	QP
12		26.8800	4.18	20.29	24.47	50.00	-25.53	AVG

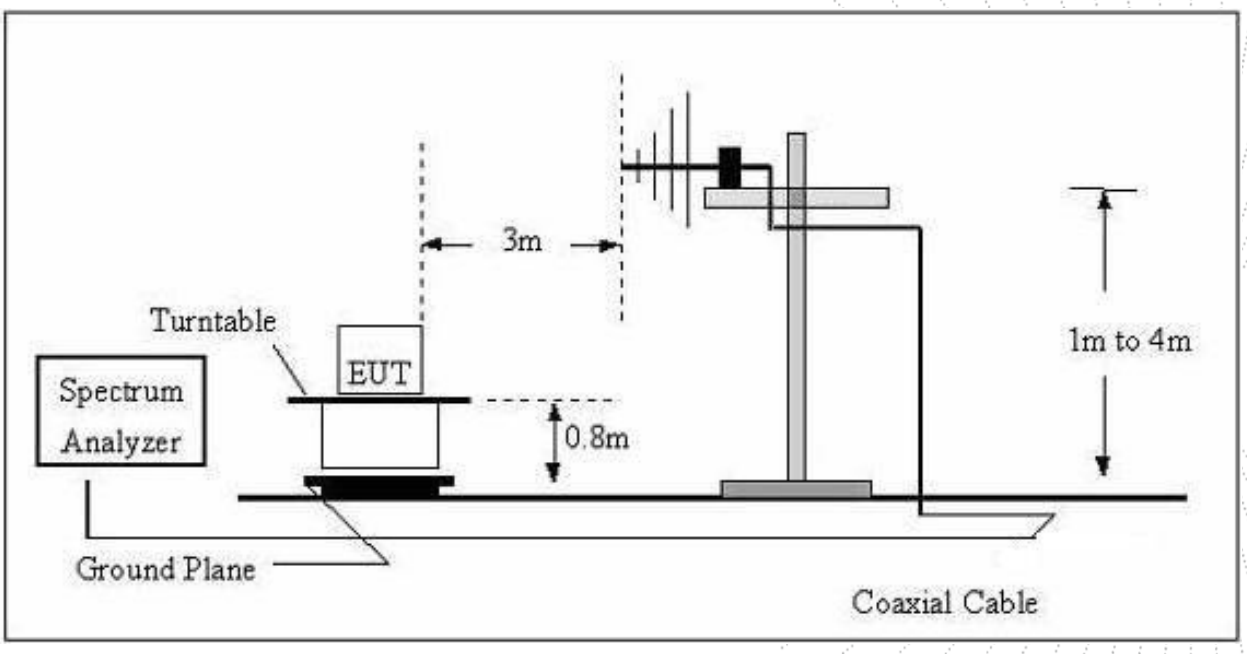
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

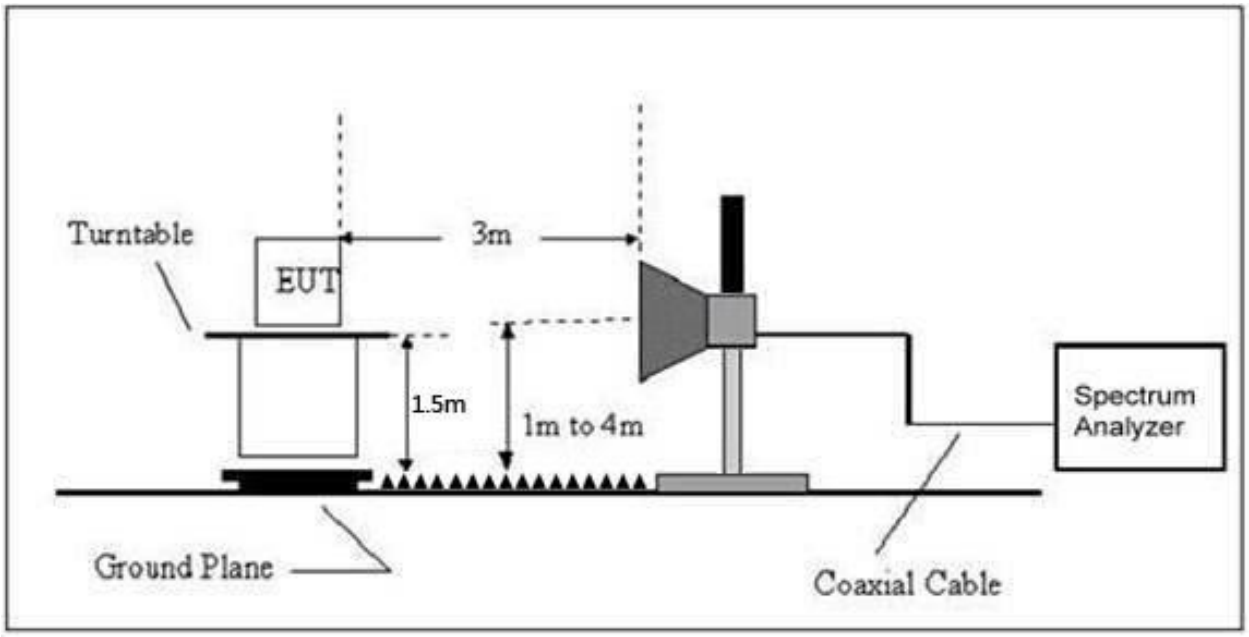
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))}$ + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))}$ + 40
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)}$ + 40
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	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).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

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

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

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

Note:

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

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

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

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

7.4 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.

7.5 Test Result

Below 30MHz

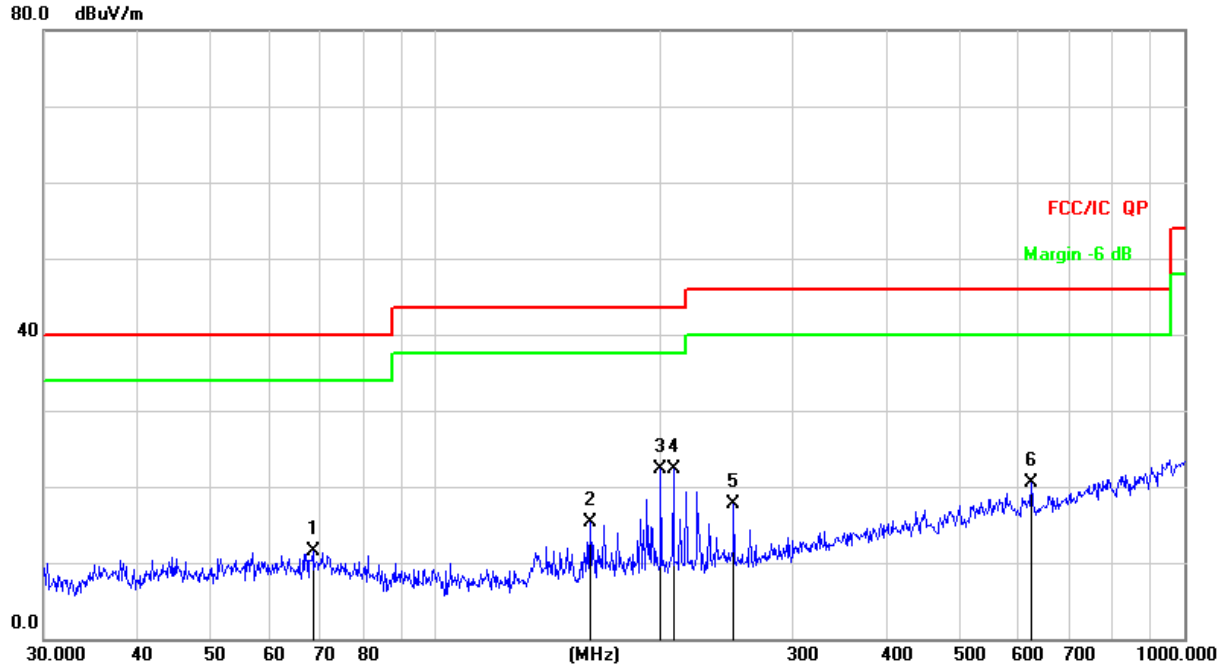
Temperature:	22.6 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

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.

Between 30MHz – 1GHz

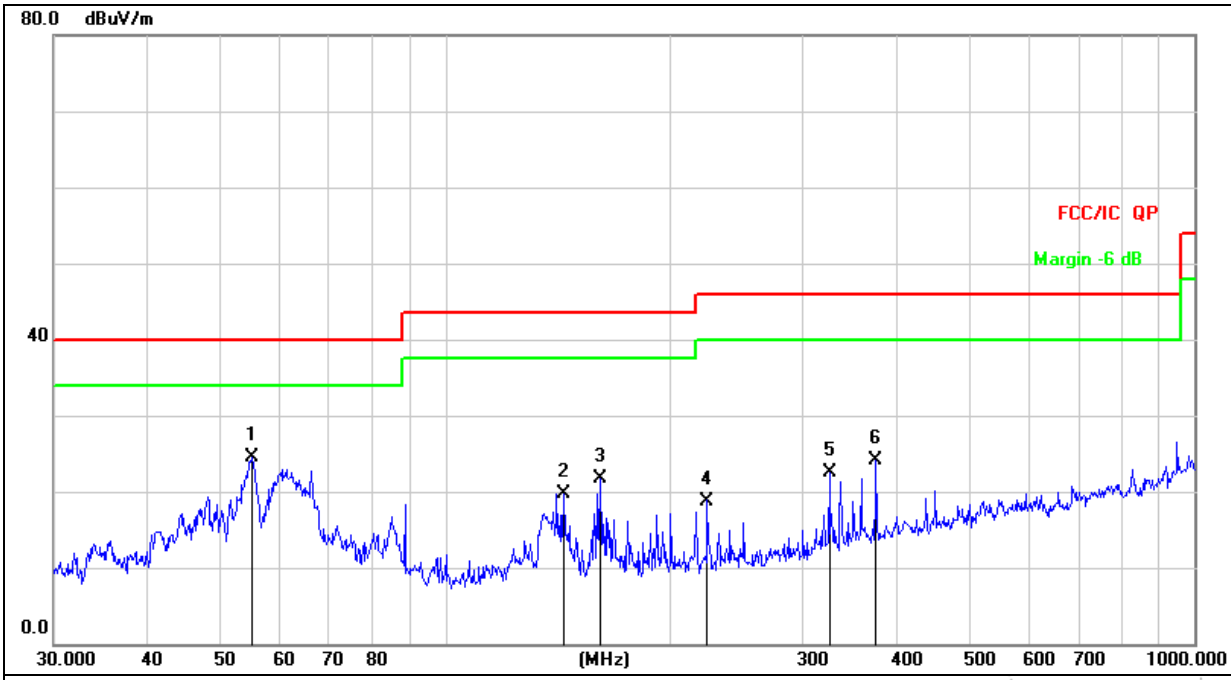
Temperature:	22.6 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	AC120V/60Hz



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		68.6310	26.47	-14.92	11.55	40.00	-28.45	QP
2		160.9089	30.39	-15.00	15.39	43.50	-28.11	QP
3	*	199.9856	36.74	-14.39	22.35	43.50	-21.15	QP
4		207.8501	36.51	-14.22	22.29	43.50	-21.21	QP
5		250.3012	31.01	-13.28	17.73	46.00	-28.27	QP
6		625.0780	26.57	-6.08	20.49	46.00	-25.51	QP

Temperature:	22.6 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	AC120V/60Hz



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	55.2207	39.06	-14.48	24.58	40.00	-15.42	QP
2		143.8295	34.96	-15.27	19.69	43.50	-23.81	QP
3		160.9089	36.77	-15.00	21.77	43.50	-21.73	QP
4		223.7334	32.67	-13.87	18.80	46.00	-27.20	QP
5		325.5958	34.13	-11.62	22.51	46.00	-23.49	QP
6		375.9385	34.63	-10.51	24.12	46.00	-21.88	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.107	73.01	-20.73	52.28	68.2	-15.92	PK
Vertical	4434.107	59.00	-20.73	38.27	54	-15.73	AV
Vertical	10360.049	60.68	-9.36	51.32	68.2	-16.88	PK
Vertical	10360.049	49.73	-9.36	40.37	54	-13.63	AV
Vertical	15540.104	63.47	-7.84	55.63	74	-18.37	PK
Vertical	15540.104	49.86	-7.84	42.02	54	-11.98	AV
Horizontal	4434.121	74.96	-20.73	54.23	68.2	-13.97	PK
Horizontal	4434.121	59.97	-20.73	39.24	54	-14.76	AV
Horizontal	10360.002	62.61	-9.36	53.25	68.2	-14.95	PK
Horizontal	10360.002	49.41	-9.36	40.05	54	-13.95	AV
Horizontal	15540.086	62.46	-7.84	54.62	74	-19.38	PK
Horizontal	15540.086	49.48	-7.84	41.64	54	-12.36	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.087	71.91	-20.42	51.50	74	-22.50	PK
Vertical	4592.087	59.69	-20.42	39.27	54	-14.73	AV
Vertical	10400.144	61.64	-9.30	52.34	68.2	-15.86	PK
Vertical	10400.144	49.80	-9.30	40.50	54	-13.50	AV
Vertical	15600.072	63.72	-7.82	55.90	74	-18.10	PK
Vertical	15600.072	49.72	-7.82	41.90	54	-12.10	AV
Horizontal	4592.136	70.48	-20.42	50.06	74	-23.94	PK
Horizontal	4592.136	59.62	-20.42	39.20	54	-14.80	AV
Horizontal	10400.179	64.25	-9.30	54.95	68.2	-13.25	PK
Horizontal	10400.179	49.62	-9.30	40.32	54	-13.68	AV
Horizontal	15600.042	61.44	-7.82	53.62	74	-20.38	PK
Horizontal	15600.042	49.58	-7.82	41.76	54	-12.24	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.050	73.28	-20.12	53.16	74	-20.84	PK
Vertical	4739.050	59.22	-20.12	39.10	54	-14.90	AV
Vertical	10480.085	63.14	-9.18	53.96	68.2	-14.24	PK
Vertical	10480.085	49.17	-9.18	39.99	54	-14.01	AV
Vertical	15720.083	64.98	-7.78	57.20	74	-16.80	PK
Vertical	15720.083	49.38	-7.78	41.60	54	-12.40	AV
Horizontal	4739.016	71.85	-20.12	51.73	74	-22.27	PK
Horizontal	4739.016	59.68	-20.12	39.56	54	-14.44	AV
Horizontal	10480.016	61.62	-9.18	52.44	68.2	-15.76	PK
Horizontal	10480.016	49.71	-9.18	40.53	54	-13.47	AV
Horizontal	15720.185	62.74	-7.78	54.96	74	-19.04	PK
Horizontal	15720.185	49.90	-7.78	42.12	54	-11.88	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.024	74.00	-20.73	53.26	68.2	-14.94	PK
Vertical	4434.024	59.37	-20.73	38.64	54	-15.36	AV
Vertical	10360.011	64.36	-9.36	55.00	68.2	-13.20	PK
Vertical	10360.011	49.51	-9.36	40.15	54	-13.85	AV
Vertical	15540.004	62.37	-7.84	54.53	74	-19.47	PK
Vertical	15540.004	49.13	-7.84	41.29	54	-12.71	AV
Horizontal	4434.091	72.87	-20.73	52.14	68.2	-16.06	PK
Horizontal	4434.091	59.78	-20.73	39.05	54	-14.95	AV
Horizontal	10360.079	64.39	-9.36	55.03	68.2	-13.17	PK
Horizontal	10360.079	49.12	-9.36	39.76	54	-14.24	AV
Horizontal	15540.153	62.53	-7.84	54.69	74	-19.31	PK
Horizontal	15540.153	49.98	-7.84	42.14	54	-11.86	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.066	73.00	-20.42	52.58	74	-21.42	PK
Vertical	4592.066	59.44	-20.42	39.03	54	-14.97	AV
Vertical	10400.153	60.69	-9.30	51.39	68.2	-16.81	PK
Vertical	10400.153	49.75	-9.30	40.45	54	-13.55	AV
Vertical	15600.147	61.59	-7.82	53.77	74	-20.23	PK
Vertical	15600.147	49.36	-7.82	41.54	54	-12.46	AV
Horizontal	4592.196	74.99	-20.42	54.57	74	-19.43	PK
Horizontal	4592.196	59.40	-20.42	38.98	54	-15.02	AV
Horizontal	10400.144	61.57	-9.30	52.27	68.2	-15.93	PK
Horizontal	10400.144	49.83	-9.30	40.53	54	-13.47	AV
Horizontal	15600.113	64.95	-7.82	57.13	74	-16.87	PK
Horizontal	15600.113	49.81	-7.82	41.99	54	-12.01	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.151	74.05	-20.12	53.93	74	-20.07	PK
Vertical	4739.151	59.54	-20.12	39.42	54	-14.58	AV
Vertical	10480.146	60.41	-9.18	51.23	68.2	-16.97	PK
Vertical	10480.146	49.66	-9.18	40.48	54	-13.52	AV
Vertical	15720.098	63.64	-7.78	55.86	74	-18.14	PK
Vertical	15720.098	49.90	-7.78	42.12	54	-11.88	AV
Horizontal	4739.012	73.22	-20.12	53.09	74	-20.91	PK
Horizontal	4739.012	59.86	-20.12	39.74	54	-14.26	AV
Horizontal	10480.035	62.74	-9.18	53.56	68.2	-14.64	PK
Horizontal	10480.035	49.91	-9.18	40.73	54	-13.27	AV
Horizontal	15720.152	62.69	-7.78	54.91	74	-19.09	PK
Horizontal	15720.152	49.01	-7.78	41.23	54	-12.77	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.138	74.85	-20.73	54.12	68.2	-14.08	PK
Vertical	4434.138	59.00	-20.73	38.27	54	-15.73	AV
Vertical	10380.027	64.13	-9.33	54.80	68.2	-13.40	PK
Vertical	10380.027	49.37	-9.33	40.04	54	-13.96	AV
Vertical	15570.072	61.93	-7.83	54.10	74	-19.90	PK
Vertical	15570.072	49.19	-7.83	41.36	54	-12.64	AV
Horizontal	4434.007	71.17	-20.73	50.44	74	-23.56	PK
Horizontal	4434.007	59.62	-20.73	38.88	54	-15.12	AV
Horizontal	10380.130	60.72	-9.33	51.39	68.2	-16.81	PK
Horizontal	10380.130	49.49	-9.33	40.16	54	-13.84	AV
Horizontal	15570.088	62.33	-7.83	54.50	74	-19.50	PK
Horizontal	15570.088	49.93	-7.83	42.10	54	-11.90	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.099	70.85	-20.12	50.73	68.2	-17.47	PK
Vertical	4739.099	59.09	-20.12	38.97	54	-15.03	AV
Vertical	10460.020	60.81	-9.21	51.60	68.2	-16.60	PK
Vertical	10460.020	49.27	-9.21	40.06	54	-13.94	AV
Vertical	15690.081	64.51	-7.79	56.72	74	-17.28	PK
Vertical	15690.081	49.59	-7.79	41.80	54	-12.20	AV
Horizontal	4739.084	71.66	-20.12	51.53	68.2	-16.67	PK
Horizontal	4739.084	59.83	-20.12	39.71	54	-14.29	AV
Horizontal	10460.073	61.91	-9.21	52.70	68.2	-15.50	PK
Horizontal	10460.073	50.00	-9.21	40.79	54	-13.21	AV
Horizontal	15690.048	63.98	-7.79	56.19	74	-17.81	PK
Horizontal	15690.048	49.54	-7.79	41.75	54	-12.25	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.124	74.00	-20.73	53.27	68.2	-14.93	PK
Vertical	4434.124	60.00	-20.73	39.27	54	-14.73	AV
Vertical	10360.196	62.25	-9.36	52.89	68.2	-15.31	PK
Vertical	10360.196	49.76	-9.36	40.40	54	-13.60	AV
Vertical	15540.024	63.14	-7.84	55.30	74	-18.70	PK
Vertical	15540.024	49.43	-7.84	41.59	54	-12.41	AV
Horizontal	4434.014	74.52	-20.73	53.79	68.2	-14.41	PK
Horizontal	4434.014	59.76	-20.73	39.03	54	-14.97	AV
Horizontal	10360.018	60.77	-9.36	51.41	68.2	-16.79	PK
Horizontal	10360.018	49.01	-9.36	39.65	54	-14.35	AV
Horizontal	15540.147	64.19	-7.84	56.35	74	-17.65	PK
Horizontal	15540.147	49.49	-7.84	41.65	54	-12.35	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.052	72.73	-20.42	52.31	74	-21.69	PK
Vertical	4592.052	59.73	-20.42	39.32	54	-14.68	AV
Vertical	10400.154	64.78	-9.30	55.48	68.2	-12.72	PK
Vertical	10400.154	49.17	-9.30	39.87	54	-14.13	AV
Vertical	15600.095	60.91	-7.82	53.09	74	-20.91	PK
Vertical	15600.095	49.89	-7.82	42.07	54	-11.93	AV
Horizontal	4592.011	73.68	-20.42	53.27	74	-20.73	PK
Horizontal	4592.011	59.32	-20.42	38.91	54	-15.09	AV
Horizontal	10400.076	62.56	-9.30	53.26	68.2	-14.94	PK
Horizontal	10400.076	49.27	-9.30	39.97	54	-14.03	AV
Horizontal	15600.182	60.48	-7.82	52.66	74	-21.34	PK
Horizontal	15600.182	49.10	-7.82	41.28	54	-12.72	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.108	72.51	-20.12	52.39	74	-21.61	PK
Vertical	4739.108	59.48	-20.12	39.36	54	-14.64	AV
Vertical	10480.085	60.36	-9.18	51.18	68.2	-17.02	PK
Vertical	10480.085	49.94	-9.18	40.76	54	-13.24	AV
Vertical	15720.086	60.50	-7.78	52.72	74	-21.28	PK
Vertical	15720.086	49.39	-7.78	41.61	54	-12.39	AV
Horizontal	4739.151	73.15	-20.12	53.03	74	-20.97	PK
Horizontal	4739.151	59.75	-20.12	39.63	54	-14.37	AV
Horizontal	10480.161	62.47	-9.18	53.29	68.2	-14.91	PK
Horizontal	10480.161	50.00	-9.18	40.82	54	-13.18	AV
Horizontal	15720.074	62.52	-7.78	54.74	74	-19.26	PK
Horizontal	15720.074	49.97	-7.78	42.19	54	-11.81	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.196	73.11	-20.73	52.38	68.2	-15.82	PK
Vertical	4434.196	59.46	-20.73	38.73	54	-15.27	AV
Vertical	10380.109	60.39	-9.33	51.06	68.2	-17.14	PK
Vertical	10380.109	49.94	-9.33	40.61	54	-13.39	AV
Vertical	15570.038	60.42	-7.83	52.59	74	-21.41	PK
Vertical	15570.038	49.92	-7.83	42.09	54	-11.91	AV
Horizontal	4434.185	73.77	-20.73	53.04	74	-20.96	PK
Horizontal	4434.185	59.68	-20.73	38.95	54	-15.05	AV
Horizontal	10380.186	62.62	-9.33	53.29	68.2	-14.91	PK
Horizontal	10380.186	49.94	-9.33	40.61	54	-13.39	AV
Horizontal	15570.009	60.23	-7.83	52.40	74	-21.60	PK
Horizontal	15570.009	49.61	-7.83	41.78	54	-12.22	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.042	72.79	-20.12	52.67	68.2	-15.53	PK
Vertical	4739.042	59.68	-20.12	39.56	54	-14.44	AV
Vertical	10460.005	61.11	-9.21	51.90	68.2	-16.30	PK
Vertical	10460.005	49.63	-9.21	40.42	54	-13.58	AV
Vertical	15690.069	63.29	-7.79	55.50	74	-18.50	PK
Vertical	15690.069	49.88	-7.79	42.09	54	-11.91	AV
Horizontal	4739.172	70.98	-20.12	50.86	68.2	-17.34	PK
Horizontal	4739.172	59.91	-20.12	39.79	54	-14.21	AV
Horizontal	10460.010	60.03	-9.21	50.82	68.2	-17.38	PK
Horizontal	10460.010	49.02	-9.21	39.81	54	-14.19	AV
Horizontal	15690.080	61.25	-7.79	53.46	74	-20.54	PK
Horizontal	15690.080	49.36	-7.79	41.57	54	-12.43	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.105	71.04	-20.73	50.31	68.2	-17.89	PK
Vertical	4434.105	59.01	-20.73	38.28	54	-15.72	AV
Vertical	10420.075	62.65	-9.27	53.38	68.2	-14.82	PK
Vertical	10420.075	49.48	-9.27	40.21	54	-13.79	AV
Vertical	15630.116	60.08	-7.81	52.27	74	-21.73	PK
Vertical	15630.116	49.31	-7.81	41.50	54	-12.50	AV
Horizontal	4434.060	73.31	-20.73	52.57	68.2	-15.63	PK
Horizontal	4434.060	59.27	-20.73	38.54	54	-15.46	AV
Horizontal	10420.188	41.74	9.27	51.01	68.2	-17.19	PK
Horizontal	10420.188	30.00	9.27	39.27	54	-14.73	AV
Horizontal	15630.195	60.70	-7.81	52.89	74	-21.11	PK
Horizontal	15630.195	49.80	-7.81	41.99	54	-12.01	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) -- 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.005	70.53	-20.24	50.29	74	-23.71	PK
Vertical	4679.005	59.30	-20.24	39.05	54	-14.95	AV
Vertical	11490.038	60.42	-8.79	51.63	68.2	-16.57	PK
Vertical	11490.038	49.85	-8.79	41.06	54	-12.94	AV
Vertical	17235.002	56.41	-3.18	53.23	68.2	-14.97	PK
Vertical	17235.002	44.89	-3.18	41.71	54	-12.29	AV
Horizontal	4679.013	71.89	-20.73	51.16	74	-22.84	PK
Horizontal	4679.013	59.93	-20.73	39.20	54	-14.80	AV
Horizontal	11490.047	64.91	-8.79	56.12	68.2	-12.08	PK
Horizontal	11490.047	49.06	-8.79	40.27	54	-13.73	AV
Horizontal	17235.187	58.10	-3.18	54.92	68.2	-13.28	PK
Horizontal	17235.187	44.61	-3.18	41.43	54	-12.57	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.032	72.33	-20.42	51.92	74	-22.08	PK
Vertical	4592.032	59.61	-20.42	39.20	54	-14.80	AV
Vertical	11570.030	64.92	-8.86	56.06	68.2	-12.14	PK
Vertical	11570.030	49.56	-8.86	40.70	54	-13.30	AV
Vertical	17355.087	56.80	-2.52	54.28	68.2	-13.92	PK
Vertical	17355.087	44.10	-2.52	41.58	54	-12.42	AV
Horizontal	4592.039	73.22	-20.42	52.80	74	-21.20	PK
Horizontal	4592.039	59.64	-20.42	39.23	54	-14.77	AV
Horizontal	11570.199	60.95	-8.86	52.09	68.2	-16.11	PK
Horizontal	11570.199	49.24	-8.86	40.38	54	-13.62	AV
Horizontal	17355.128	57.01	-2.52	54.49	68.2	-13.71	PK
Horizontal	17355.128	44.94	-2.52	42.42	54	-11.58	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.084	71.74	-18.93	52.80	68.2	-15.40	PK
Vertical	6039.084	59.79	-18.93	40.85	54	-13.15	AV
Vertical	11650.114	61.17	-8.92	52.25	74	-21.75	PK
Vertical	11650.114	49.13	-8.92	40.21	54	-13.79	AV
Vertical	17475.176	59.63	-1.86	57.77	68.2	-10.43	PK
Vertical	17475.176	44.07	-1.86	42.21	54	-11.79	AV
Horizontal	6039.179	74.17	-18.93	55.24	68.2	-12.96	PK
Horizontal	6039.179	59.75	-18.93	40.82	54	-13.18	AV
Horizontal	11650.151	64.95	-8.92	56.03	74	-17.97	PK
Horizontal	11650.151	49.24	-8.92	40.32	54	-13.68	AV
Horizontal	17475.006	55.66	-1.86	53.80	68.2	-14.40	PK
Horizontal	17475.006	44.48	-1.86	42.62	54	-11.38	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) --802.11n-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.034	74.57	-20.24	54.33	74	-19.67	PK
Vertical	4679.034	59.79	-20.24	39.54	54	-14.46	AV
Vertical	11490.028	64.63	-8.79	55.84	68.2	-12.36	PK
Vertical	11490.028	49.08	-8.79	40.29	54	-13.71	AV
Vertical	17235.006	58.07	-3.18	54.89	68.2	-13.31	PK
Vertical	17235.006	44.19	-3.18	41.01	54	-12.99	AV
Horizontal	4679.079	73.75	-20.24	53.51	74	-20.49	PK
Horizontal	4679.079	59.46	-20.24	39.22	54	-14.78	AV
Horizontal	11490.108	62.88	-8.79	54.09	68.2	-14.11	PK
Horizontal	11490.108	49.10	-8.79	40.31	54	-13.69	AV
Horizontal	17235.105	56.92	-3.18	53.74	68.2	-14.46	PK
Horizontal	17235.105	44.75	-3.18	41.57	54	-12.43	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.097	72.67	-20.42	52.25	74	-21.75	PK
Vertical	4592.097	59.20	-20.42	38.78	54	-15.22	AV
Vertical	11570.010	64.61	-8.86	55.75	68.2	-12.45	PK
Vertical	11570.010	49.50	-8.86	40.64	54	-13.36	AV
Vertical	17355.155	56.12	-2.52	53.60	68.2	-14.60	PK
Vertical	17355.155	44.54	-2.52	42.02	54	-11.98	AV
Horizontal	4592.006	71.32	-20.42	50.91	74	-23.09	PK
Horizontal	4592.006	59.08	-20.42	38.67	54	-15.33	AV
Horizontal	11570.075	62.77	-8.86	53.91	68.2	-14.29	PK
Horizontal	11570.075	49.72	-8.86	40.86	54	-13.14	AV
Horizontal	17355.099	55.36	-2.52	52.84	68.2	-15.36	PK
Horizontal	17355.099	44.84	-2.52	42.32	54	-11.68	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.181	70.05	-18.93	51.12	68.2	-17.08	PK
Vertical	6039.181	59.18	-18.93	40.25	54	-13.75	AV
Vertical	11650.160	63.00	-8.92	54.08	74	-19.92	PK
Vertical	11650.160	49.41	-8.92	40.49	54	-13.51	AV
Vertical	17475.178	56.82	-1.86	54.96	68.2	-13.24	PK
Vertical	17475.178	44.15	-1.86	42.29	54	-11.71	AV
Horizontal	6039.014	74.44	-18.93	55.51	68.2	-12.69	PK
Horizontal	6039.014	59.41	-18.93	40.48	54	-13.52	AV
Horizontal	11650.062	64.67	-8.92	55.75	74	-18.25	PK
Horizontal	11650.062	49.73	-8.92	40.81	54	-13.19	AV
Horizontal	17475.088	57.51	-1.86	55.65	68.2	-12.55	PK
Horizontal	17475.088	44.36	-1.86	42.50	54	-11.50	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) -- 802.11n-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.102	71.52	-20.24	51.28	74	-22.72	PK
Vertical	4679.102	59.43	-20.24	39.19	54	-14.81	AV
Vertical	11510.145	64.65	-8.81	55.84	74	-18.16	PK
Vertical	11510.145	49.52	-8.81	40.71	54	-13.29	AV
Vertical	17265.077	56.70	-3.01	53.69	68.2	-14.51	PK
Vertical	17265.077	44.81	-3.01	41.80	54	-12.20	AV
Horizontal	4679.094	73.34	-20.24	53.10	74	-20.90	PK
Horizontal	4679.094	59.61	-20.24	39.36	54	-14.64	AV
Horizontal	11510.033	64.56	-8.81	55.75	74	-18.25	PK
Horizontal	11510.033	49.09	-8.81	40.28	54	-13.72	AV
Horizontal	17265.061	58.59	-3.01	55.58	68.2	-12.62	PK
Horizontal	17265.061	44.75	-3.01	41.74	54	-12.26	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.167	74.04	-18.93	55.11	68.2	-13.09	PK
Vertical	6039.167	59.50	-18.93	40.57	54	-13.43	AV
Vertical	11590.103	63.59	-8.87	54.72	74	-19.28	PK
Vertical	11590.103	49.36	-8.87	40.49	54	-13.51	AV
Vertical	17385.045	56.44	-2.35	54.09	68.2	-14.11	PK
Vertical	17385.045	44.09	-2.35	41.74	54	-12.26	AV
Horizontal	6039.176	73.94	-18.93	55.01	68.2	-13.19	PK
Horizontal	6039.176	59.52	-18.93	40.59	54	-13.41	AV
Horizontal	11590.155	60.81	-8.87	51.94	74	-22.06	PK
Horizontal	11590.155	49.91	-8.87	41.04	54	-12.96	AV
Horizontal	17385.170	56.55	-2.35	54.20	68.2	-14.00	PK
Horizontal	17385.170	44.43	-2.35	42.08	54	-11.92	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) --802.11ac-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.050	74.90	-20.24	54.66	74	-19.34	PK
Vertical	4679.050	59.50	-20.24	39.25	54	-14.75	AV
Vertical	11490.148	60.49	-8.79	51.70	68.2	-16.50	PK
Vertical	11490.148	49.50	-8.79	40.71	54	-13.29	AV
Vertical	17235.083	59.59	-3.18	56.41	68.2	-11.79	PK
Vertical	17235.083	44.66	-3.18	41.48	54	-12.52	AV
Horizontal	4679.131	72.06	-20.24	51.81	74	-22.19	PK
Horizontal	4679.131	59.55	-20.24	39.30	54	-14.70	AV
Horizontal	11490.123	62.23	-8.79	53.44	68.2	-14.76	PK
Horizontal	11490.123	49.35	-8.79	40.56	54	-13.44	AV
Horizontal	17235.084	55.11	-3.18	51.93	68.2	-16.27	PK
Horizontal	17235.084	44.12	-3.18	40.94	54	-13.06	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.037	70.20	-20.42	49.78	74	-24.22	PK
Vertical	4592.037	59.06	-20.42	38.64	54	-15.36	AV
Vertical	11570.084	64.05	-8.86	55.19	68.2	-13.01	PK
Vertical	11570.084	49.23	-8.86	40.37	54	-13.63	AV
Vertical	17355.052	56.89	-2.52	54.37	68.2	-13.83	PK
Vertical	17355.052	44.57	-2.52	42.05	54	-11.95	AV
Horizontal	4592.138	74.78	-20.42	54.37	74	-19.63	PK
Horizontal	4592.138	59.92	-20.42	39.51	54	-14.49	AV
Horizontal	11570.105	60.19	-8.86	51.33	68.2	-16.87	PK
Horizontal	11570.105	49.39	-8.86	40.53	54	-13.47	AV
Horizontal	17355.149	59.39	-2.52	56.87	68.2	-11.33	PK
Horizontal	17355.149	44.52	-2.52	42.00	54	-12.00	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.165	72.55	-18.93	53.62	68.2	-14.58	PK
Vertical	6039.165	59.64	-18.93	40.71	54	-13.29	AV
Vertical	11650.110	62.15	-8.92	53.23	74	-20.77	PK
Vertical	11650.110	49.37	-8.92	40.45	54	-13.55	AV
Vertical	17475.039	57.25	-1.86	55.39	68.2	-12.81	PK
Vertical	17475.039	44.35	-1.86	42.49	54	-11.51	AV
Horizontal	6039.019	73.54	-18.93	54.61	68.2	-13.59	PK
Horizontal	6039.019	59.34	-18.93	40.41	54	-13.59	AV
Horizontal	11650.167	60.80	-8.92	51.88	74	-22.12	PK
Horizontal	11650.167	49.89	-8.92	40.97	54	-13.03	AV
Horizontal	17475.055	56.81	-1.86	54.95	68.2	-13.25	PK
Horizontal	17475.055	44.50	-1.86	42.64	54	-11.36	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX (5.8G) -- 802.11ac-HT40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.142	72.02	-20.24	51.78	74	-22.22	PK
Vertical	4679.142	59.79	-20.24	39.54	54	-14.46	AV
Vertical	11510.088	61.38	-8.81	52.57	74	-21.43	PK
Vertical	11510.088	49.31	-8.81	40.50	54	-13.50	AV
Vertical	17265.120	55.90	-3.01	52.89	68.2	-15.31	PK
Vertical	17265.120	44.60	-3.01	41.59	54	-12.41	AV
Horizontal	4679.071	72.96	-20.24	52.71	74	-21.29	PK
Horizontal	4679.071	59.74	-20.24	39.50	54	-14.50	AV
Horizontal	11510.063	64.17	-8.81	55.36	74	-18.64	PK
Horizontal	11510.063	49.02	-8.81	40.21	54	-13.79	AV
Horizontal	17265.089	56.76	-3.01	53.75	68.2	-14.45	PK
Horizontal	17265.089	44.14	-3.01	41.13	54	-12.87	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.030	70.56	-18.93	51.63	68.2	-16.57	PK
Vertical	6039.030	59.66	-18.93	40.72	54	-13.28	AV
Vertical	11590.081	62.87	-8.87	54.00	74	-20.00	PK
Vertical	11590.081	49.53	-8.87	40.66	54	-13.34	AV
Vertical	17385.055	55.41	-2.35	53.06	68.2	-15.14	PK
Vertical	17385.055	44.13	-2.35	41.78	54	-12.22	AV
Horizontal	6039.005	74.72	-18.93	55.79	68.2	-12.41	PK
Horizontal	6039.005	59.03	-18.93	40.09	54	-13.91	AV
Horizontal	11590.195	60.80	-8.87	51.93	74	-22.07	PK
Horizontal	11590.195	49.15	-8.87	40.28	54	-13.72	AV
Horizontal	17385.160	55.25	-2.35	52.90	68.2	-15.30	PK
Horizontal	17385.160	44.79	-2.35	42.44	54	-11.56	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

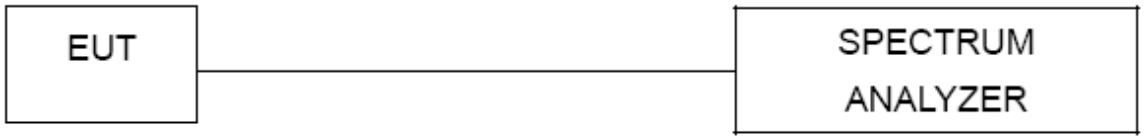
Test Mode :	TX (5.8G) -- 802.11ac 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.045	73.07	-20.24	52.83	74	-21.17	PK
Vertical	4679.045	59.74	-20.24	39.50	54	-14.50	AV
Vertical	11550.196	63.86	-8.84	55.02	74	-18.98	PK
Vertical	11550.196	49.26	-8.84	40.42	54	-13.58	AV
Vertical	17325.056	55.07	-2.68	52.39	68.2	-15.81	PK
Vertical	17325.056	44.27	-2.68	41.59	54	-12.41	AV
Horizontal	4679.108	73.62	-20.24	53.37	74	-20.63	PK
Horizontal	4679.108	59.66	-20.24	39.41	54	-14.59	AV
Horizontal	11550.061	62.70	-8.84	53.86	74	-20.14	PK
Horizontal	11550.061	49.69	-8.84	40.85	54	-13.15	AV
Horizontal	17325.144	58.86	-2.68	56.18	68.2	-12.02	PK
Horizontal	17325.144	44.47	-2.68	41.79	54	-12.21	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

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

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

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

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

For the band 5.725-5.85 GHz

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

8.3 Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
a) Set RBW ≥ 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 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

8.4 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.

8.5 Test Result

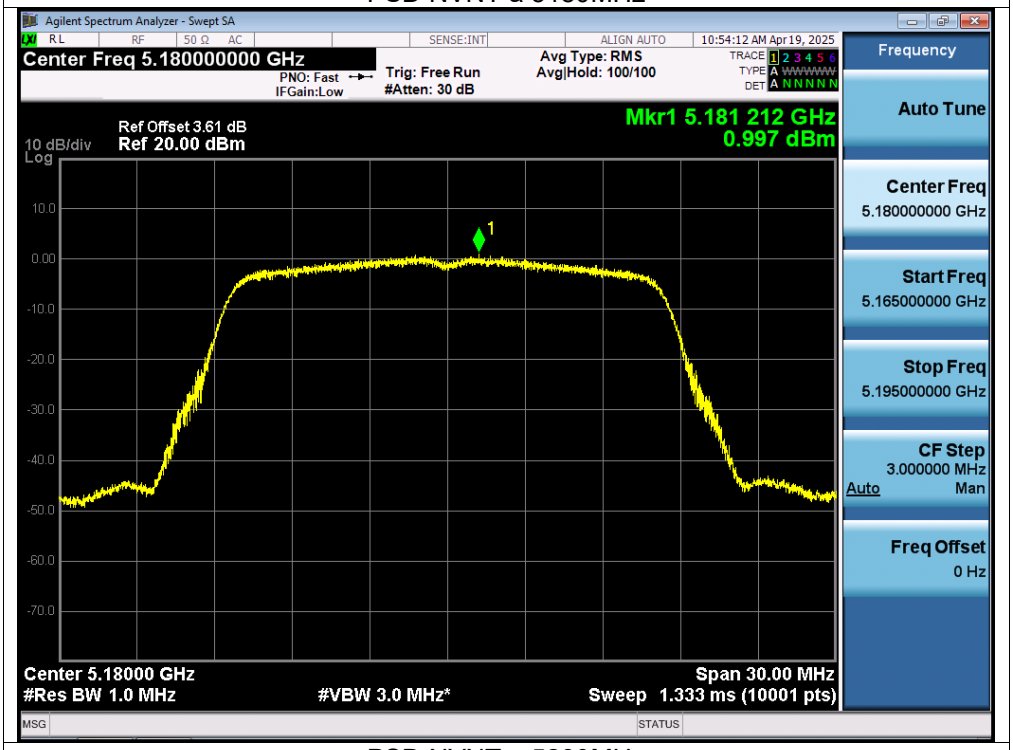
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.87V
Test Mode:	(U-NII-1) 5180MHz-5240MHz (U-NII-3) 5745MHz-5825MHz		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	1	11	Pass
NVNT	a	5200	0.68	11	Pass
NVNT	a	5240	-0.6	11	Pass
NVNT	n20	5180	-0.48	11	Pass
NVNT	n20	5200	-1.07	11	Pass
NVNT	n20	5240	-2.62	11	Pass
NVNT	n40	5190	-4.69	11	Pass
NVNT	n40	5230	-6.13	11	Pass
NVNT	ac20	5180	-0.62	11	Pass
NVNT	ac20	5200	-0.65	11	Pass
NVNT	ac20	5240	-2.21	11	Pass
NVNT	ac40	5190	-4.6	11	Pass
NVNT	ac40	5230	-5.93	11	Pass
NVNT	ac80	5210	-10.47	11	Pass

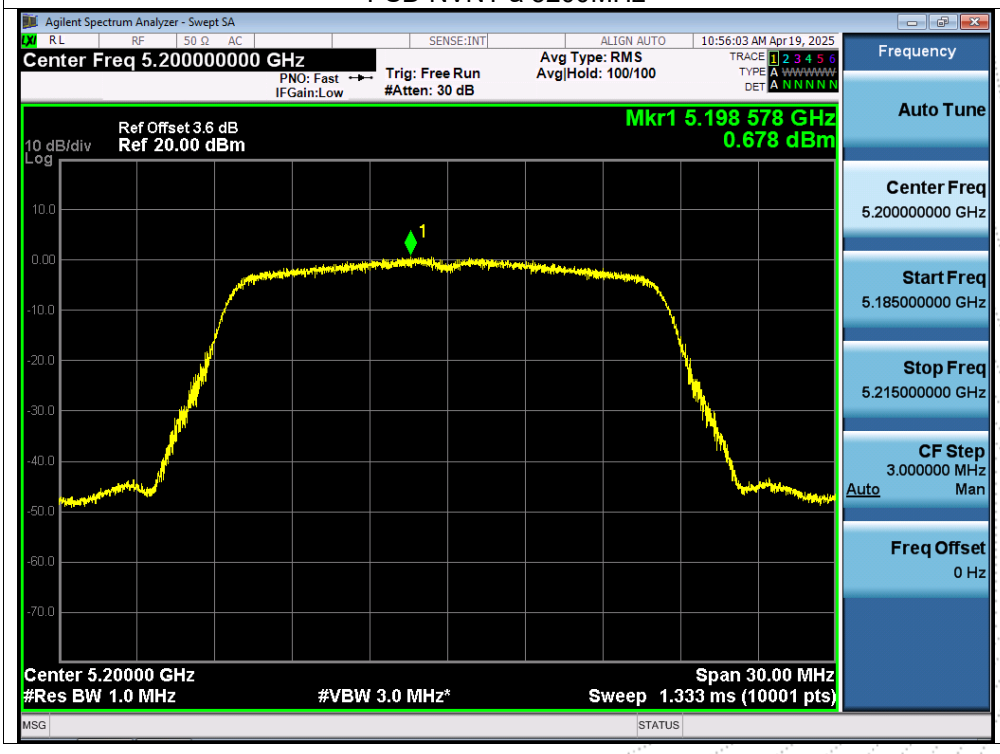
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-3.95	-4.036	30	Pass
NVNT	a	5785	-3.28	-3.366	30	Pass
NVNT	a	5825	-4.26	-4.346	30	Pass
NVNT	n20	5745	-5.3	-5.386	30	Pass
NVNT	n20	5785	-5.04	-5.126	30	Pass
NVNT	n20	5825	-5.27	-5.356	30	Pass
NVNT	n40	5755	-8.92	-9.006	30	Pass
NVNT	n40	5795	-9.48	-9.566	30	Pass
NVNT	ac20	5745	-5.06	-5.146	30	Pass
NVNT	ac20	5785	-5.58	-5.666	30	Pass
NVNT	ac20	5825	-5.34	-5.426	30	Pass
NVNT	ac40	5755	-8.73	-8.816	30	Pass
NVNT	ac40	5795	-9.38	-9.466	30	Pass
NVNT	ac80	5775	-13.83	-13.916	30	Pass
Note: Correction Factor = 10log(500KHz/RBW in measurement) =-0.086						

Test Graphs

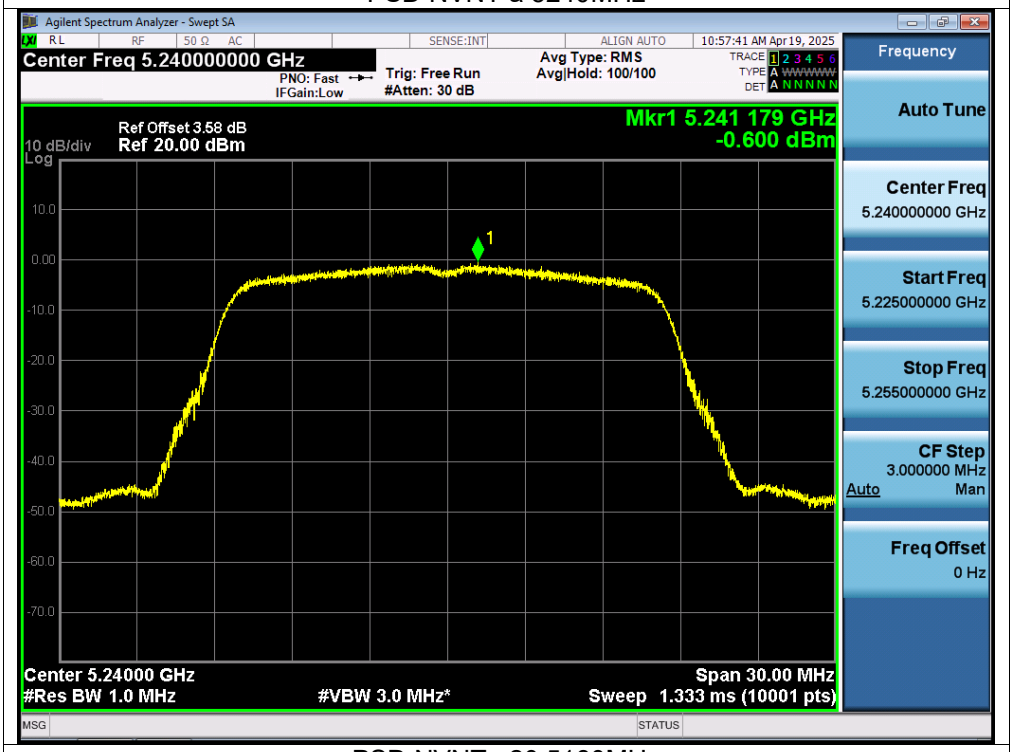
PSD NVNT a 5180MHz



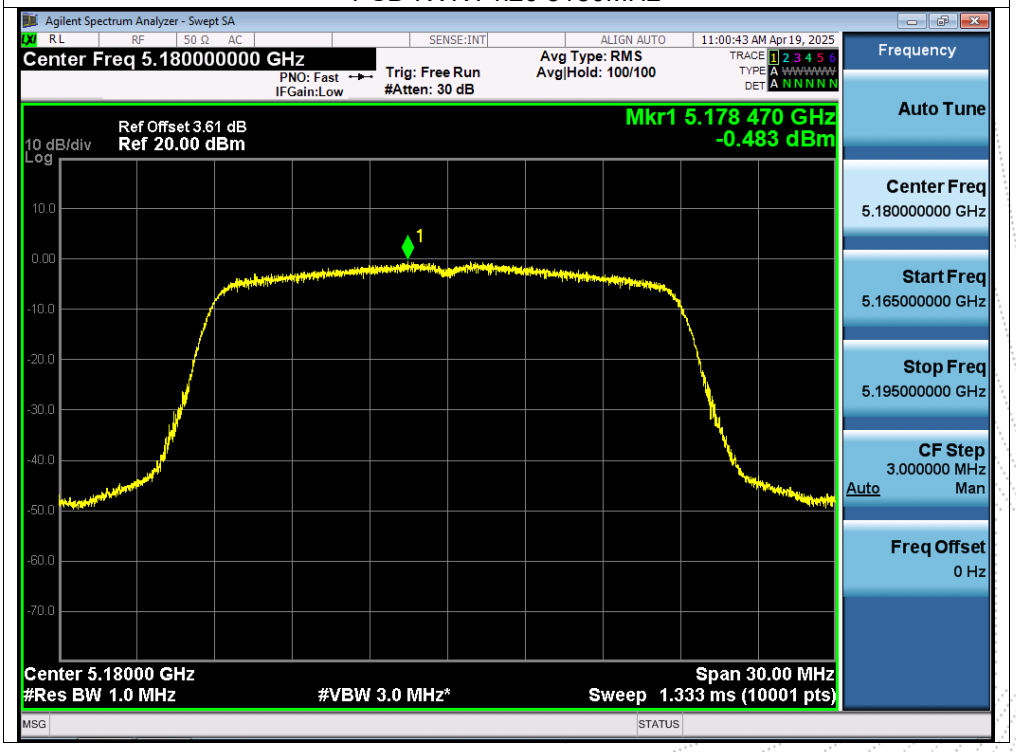
PSD NVNT a 5200MHz



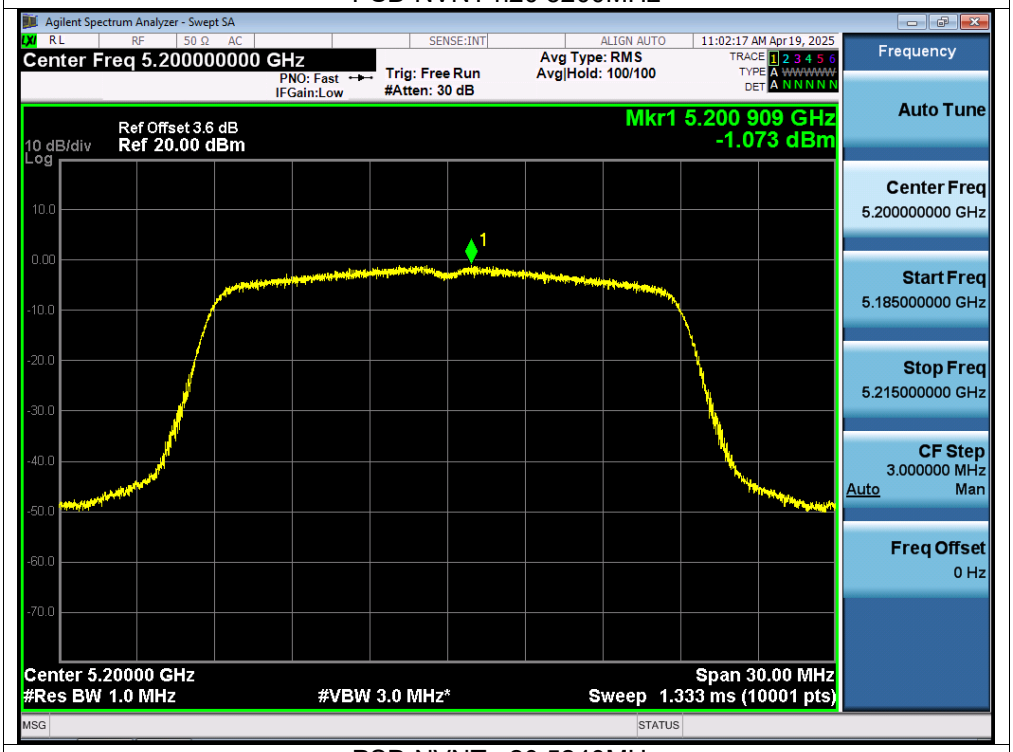
PSD NVNT a 5240MHz



PSD NVNT n20 5180MHz



PSD NVNT n20 5200MHz

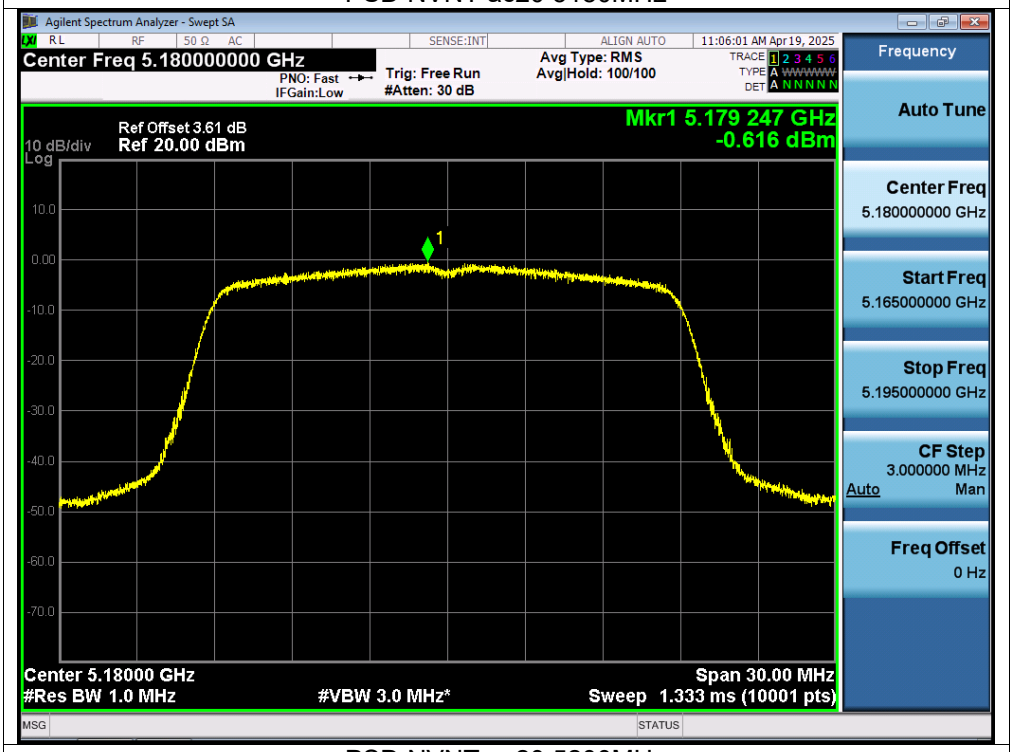


PSD NVNT n20 5240MHz

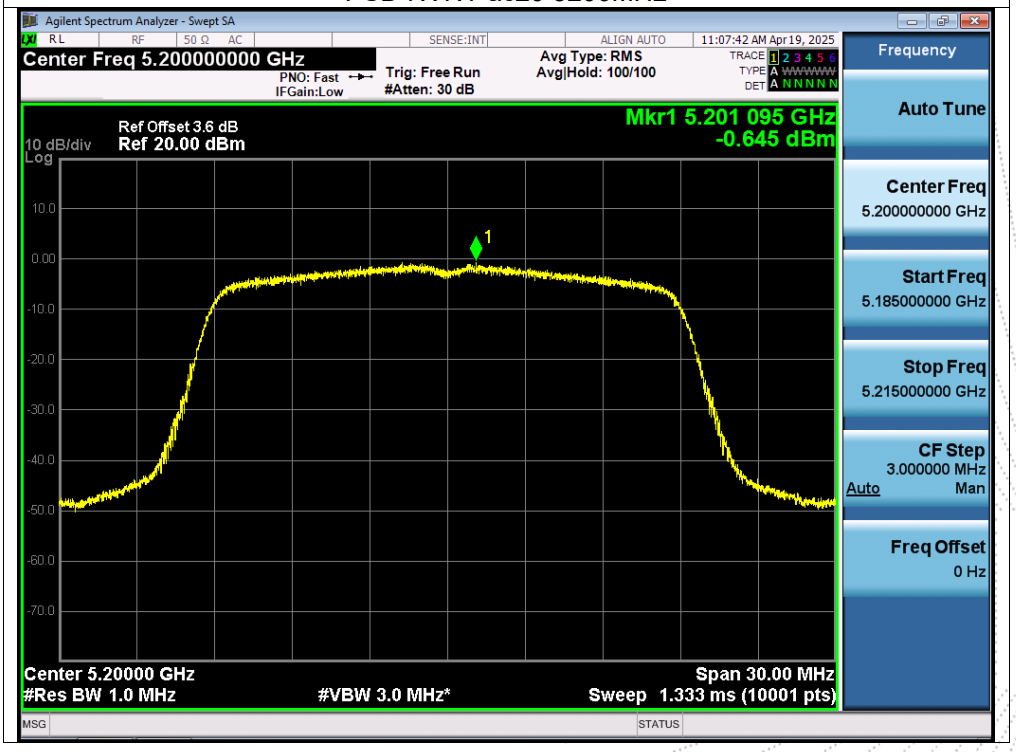
PSD NVNT n40 5190MHz

PSD NVNT n40 5230MHz

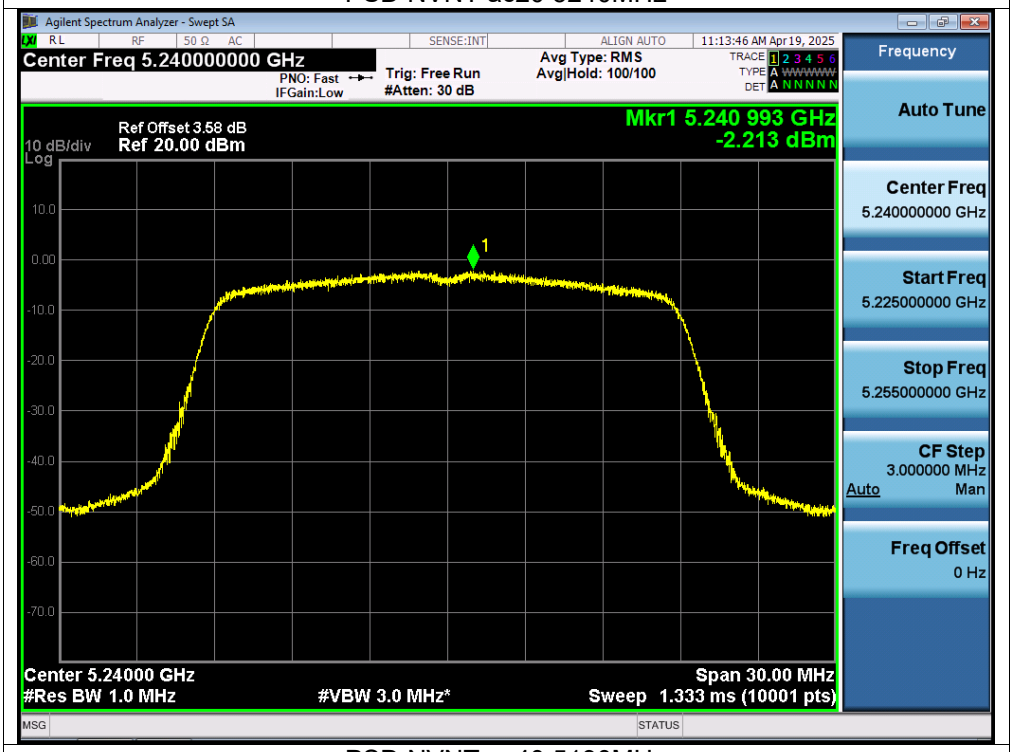
PSD NVNT ac20 5180MHz



PSD NVNT ac20 5200MHz

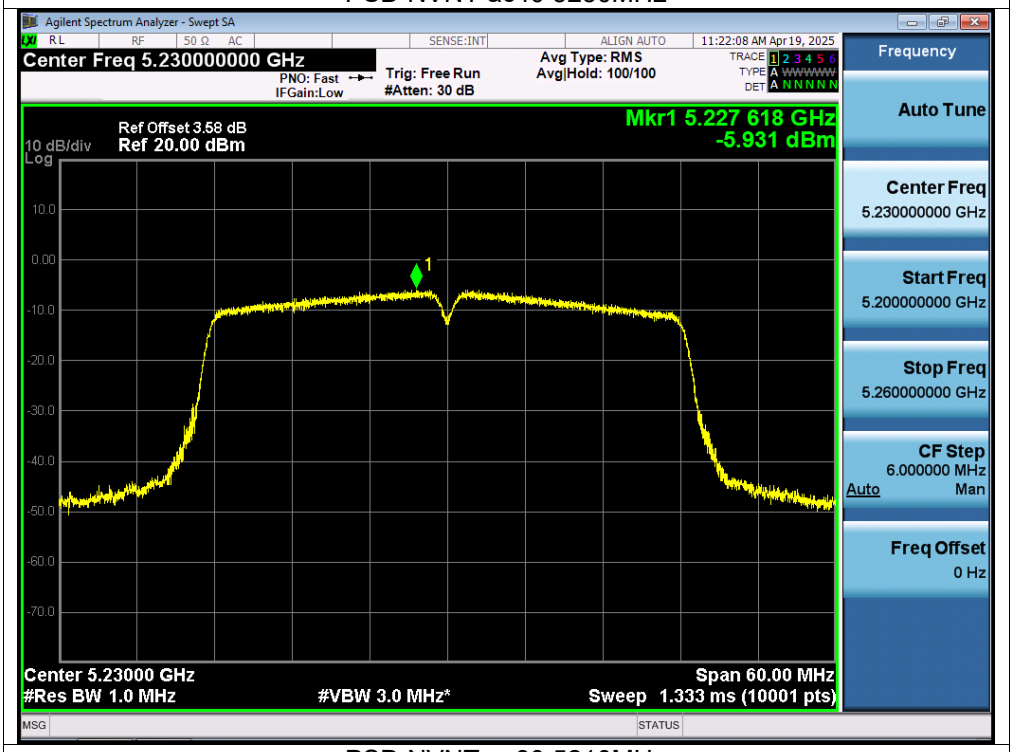


PSD NVNT ac20 5240MHz



PSD NVNT ac40 5190MHz

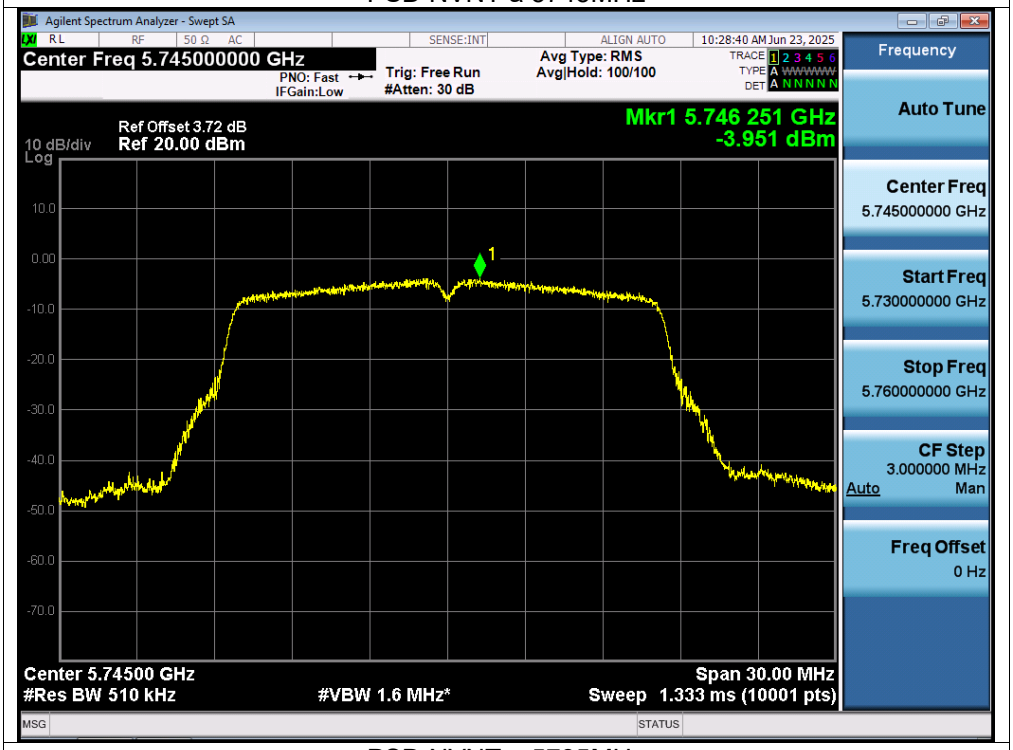
PSD NVNT ac40 5230MHz



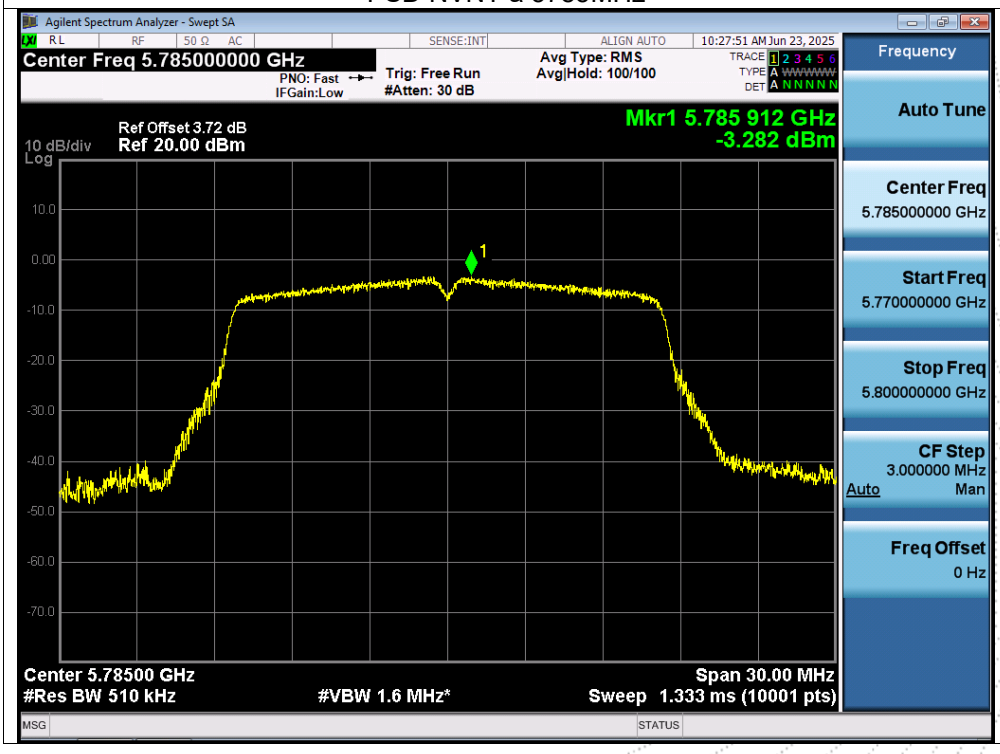
PSD NVNT ac80 5210MHz

Test Graphs

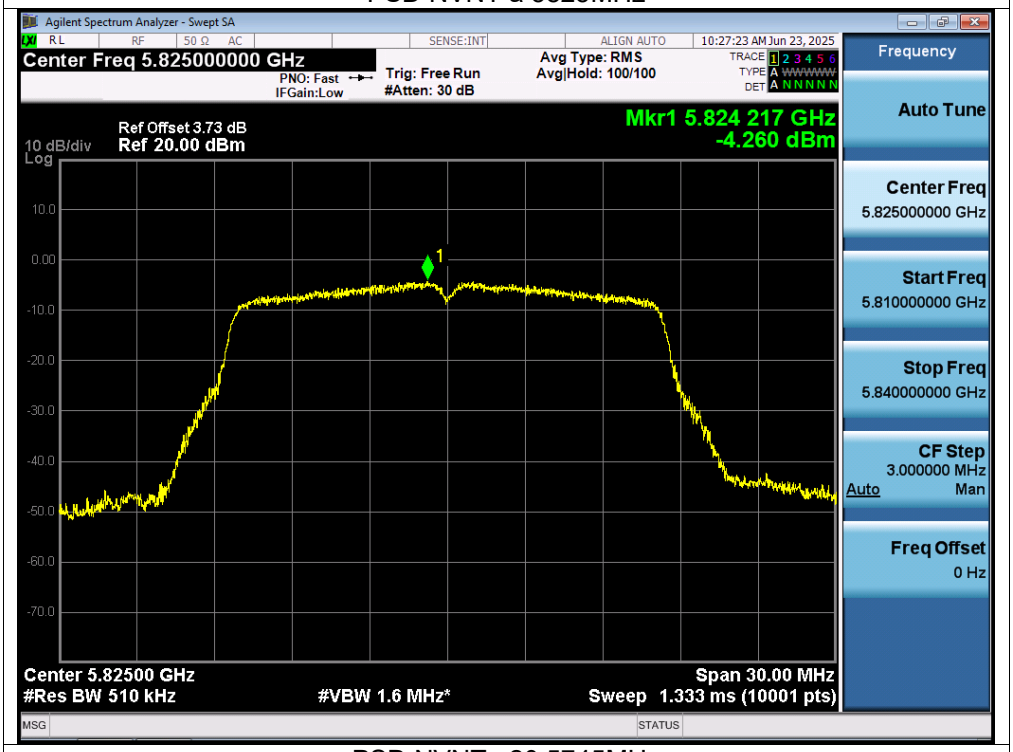
PSD NVNT a 5745MHz



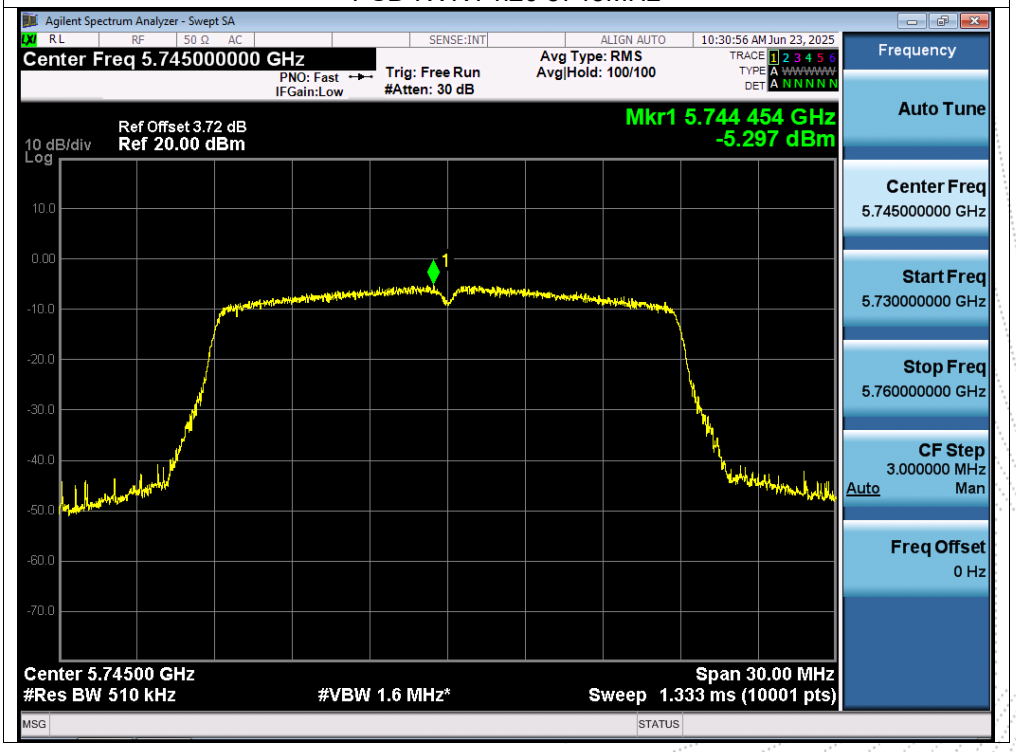
PSD NVNT a 5785MHz



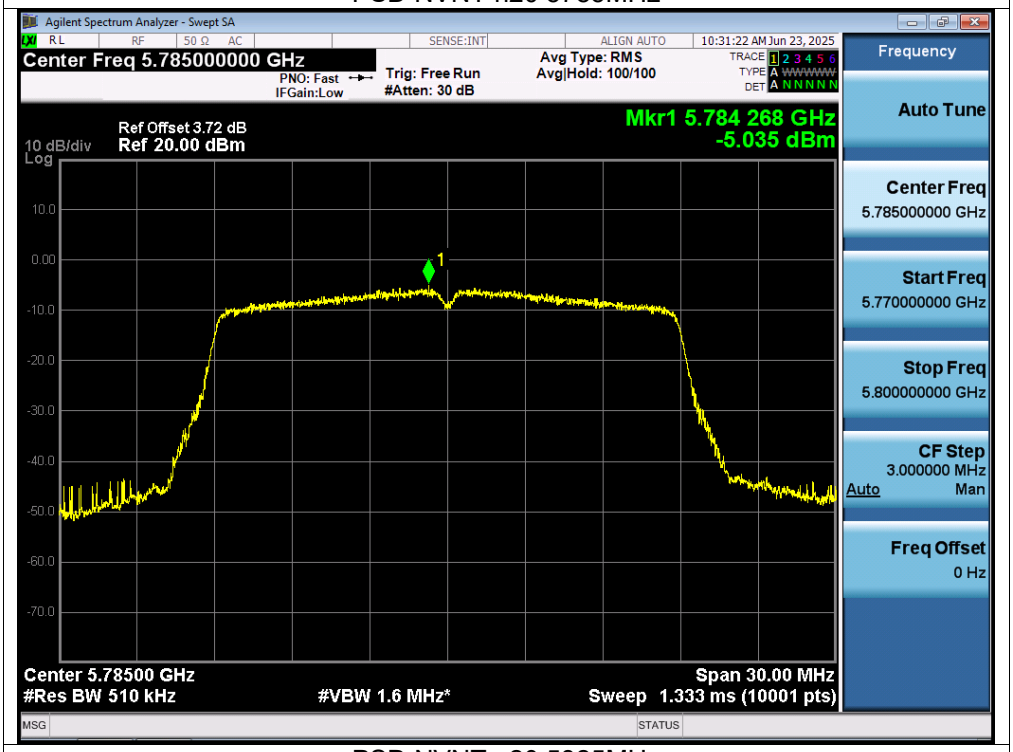
PSD NVNT a 5825MHz



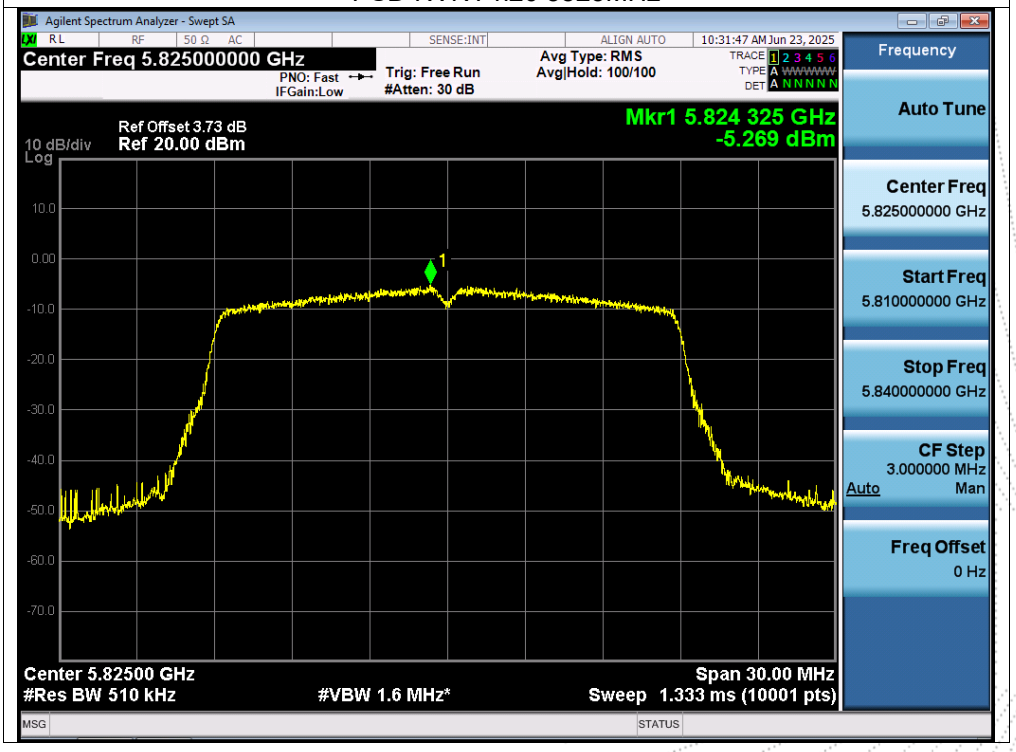
PSD NVNT n20 5745MHz



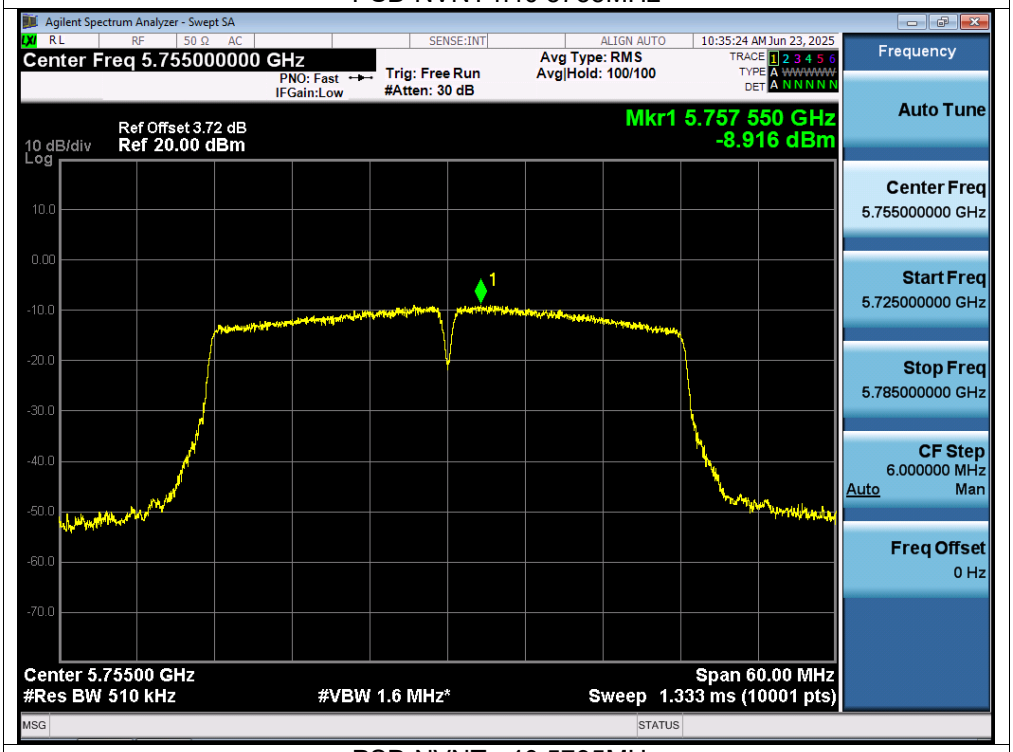
PSD NVNT n20 5785MHz



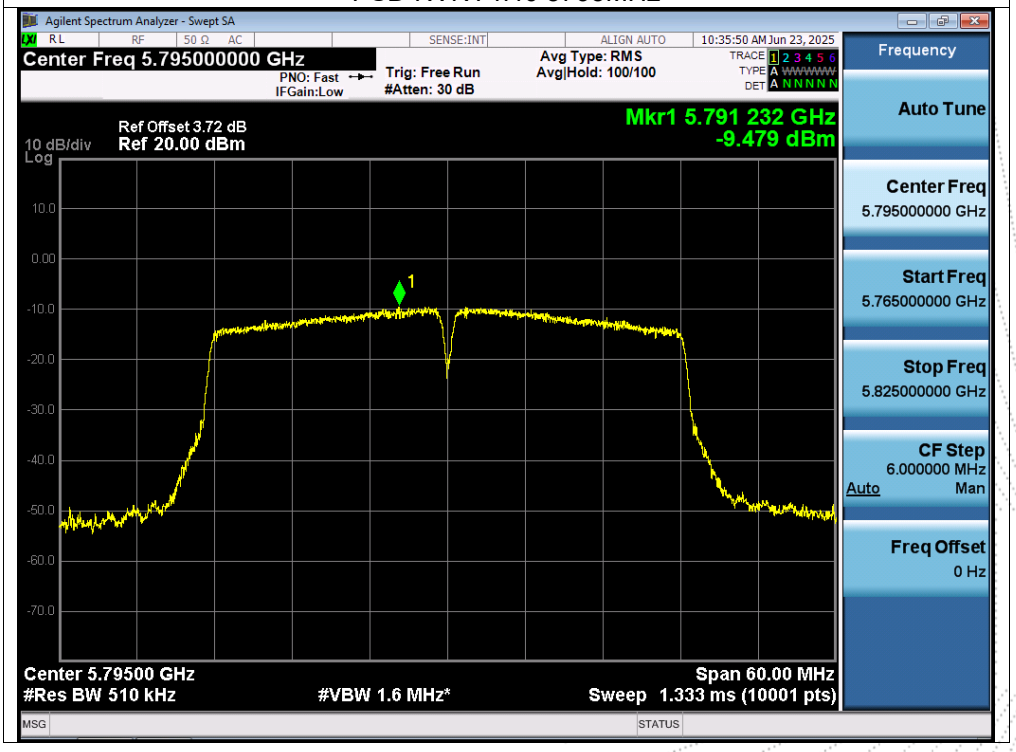
PSD NVNT n20 5825MHz



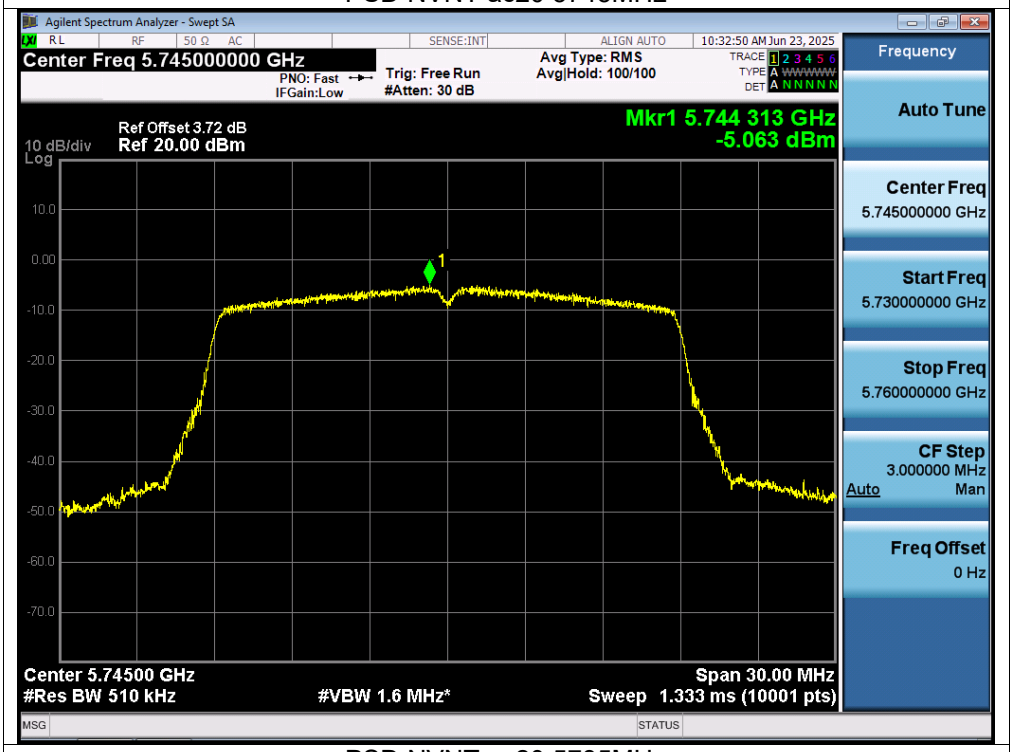
PSD NVNT n40 5755MHz



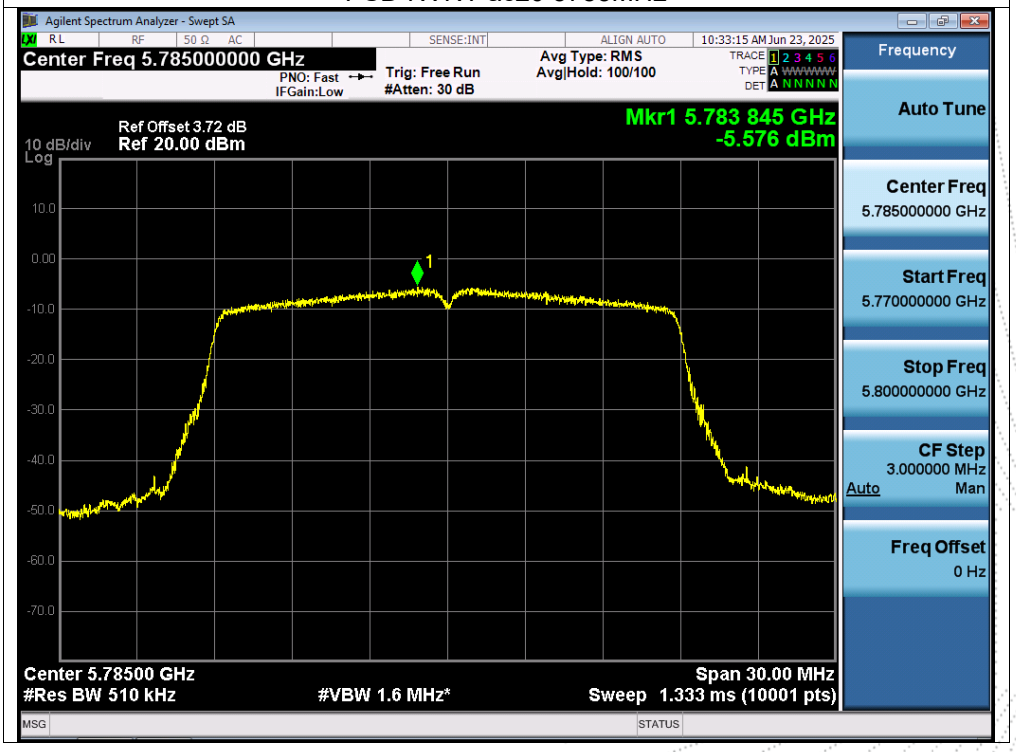
PSD NVNT n40 5795MHz



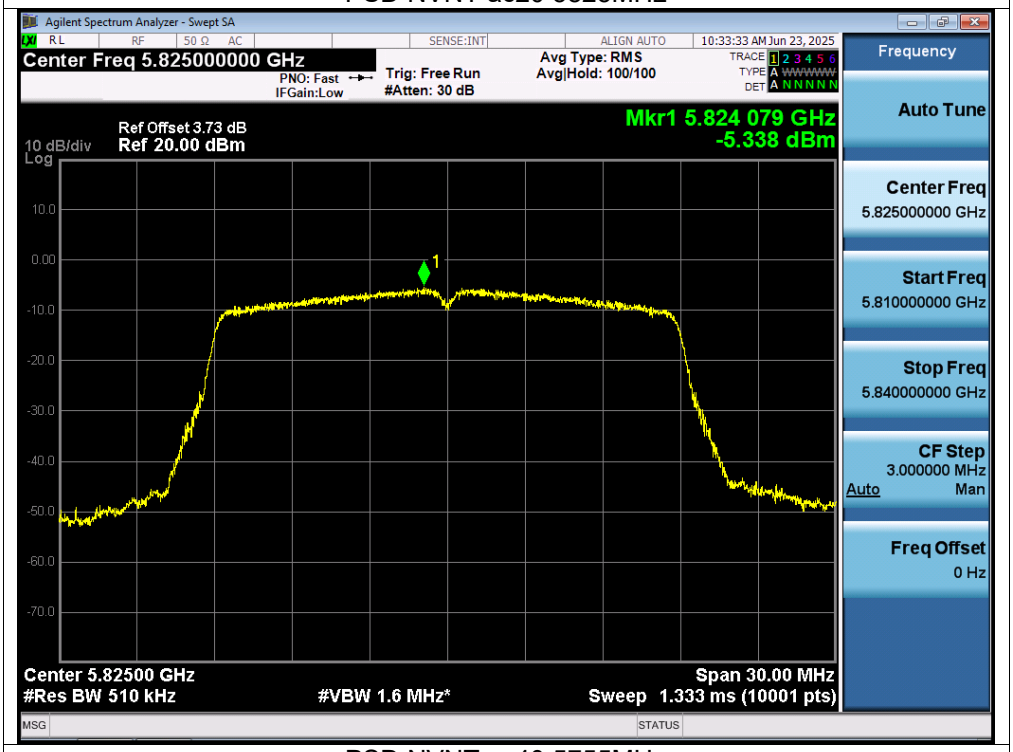
PSD NVNT ac20 5745MHz



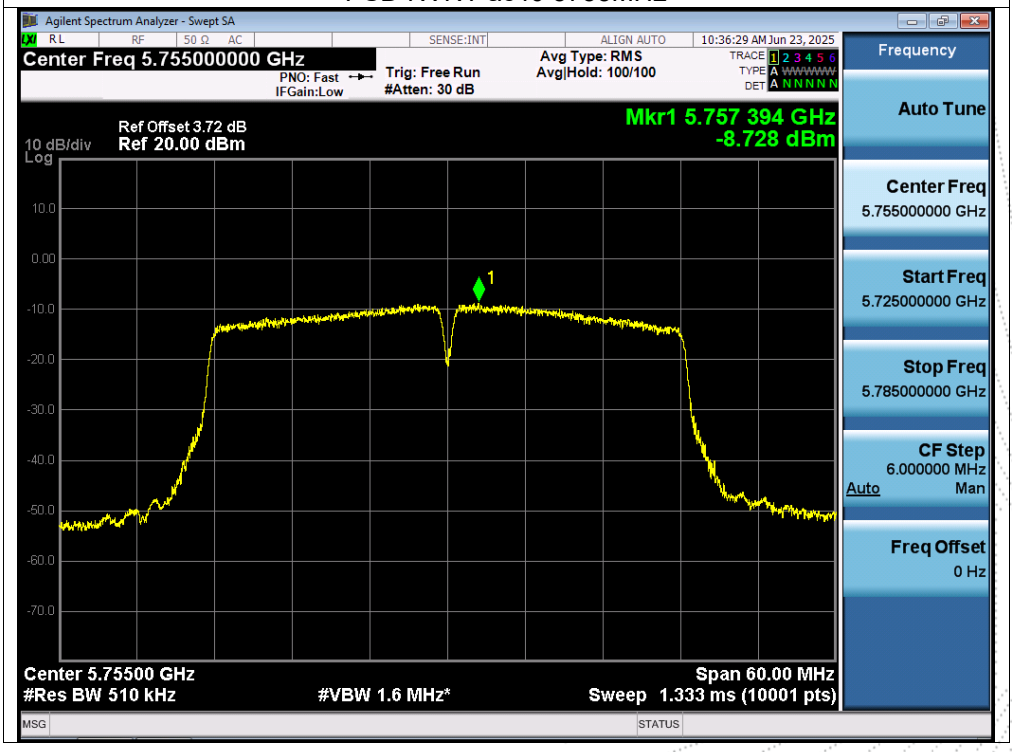
PSD NVNT ac20 5785MHz



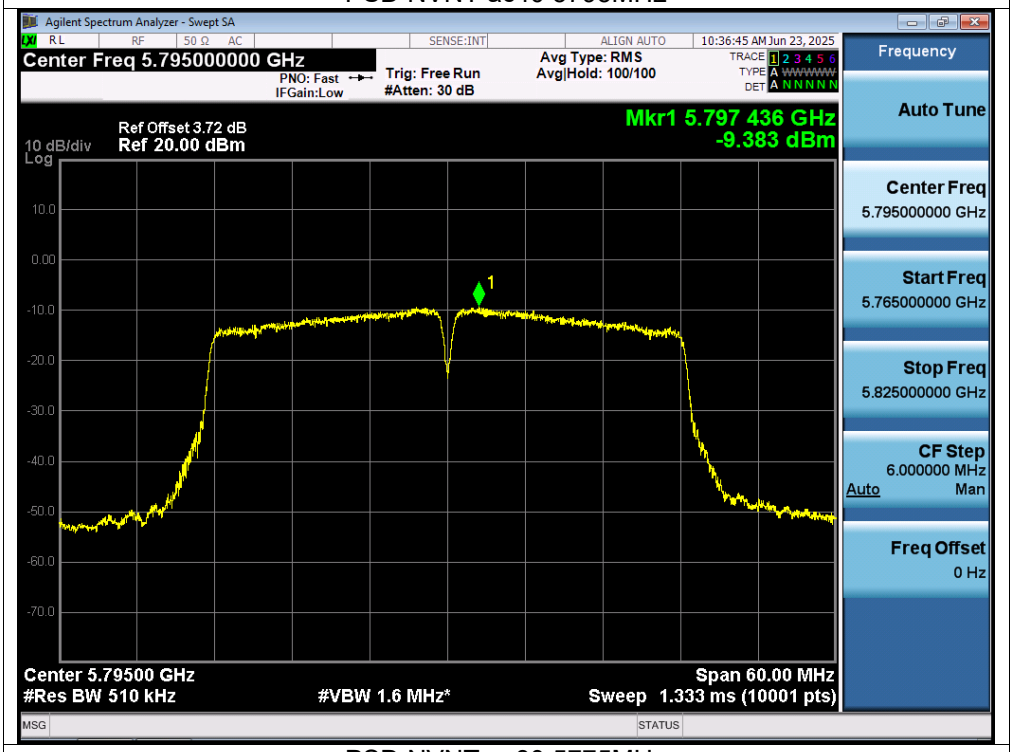
PSD NVNT ac20 5825MHz



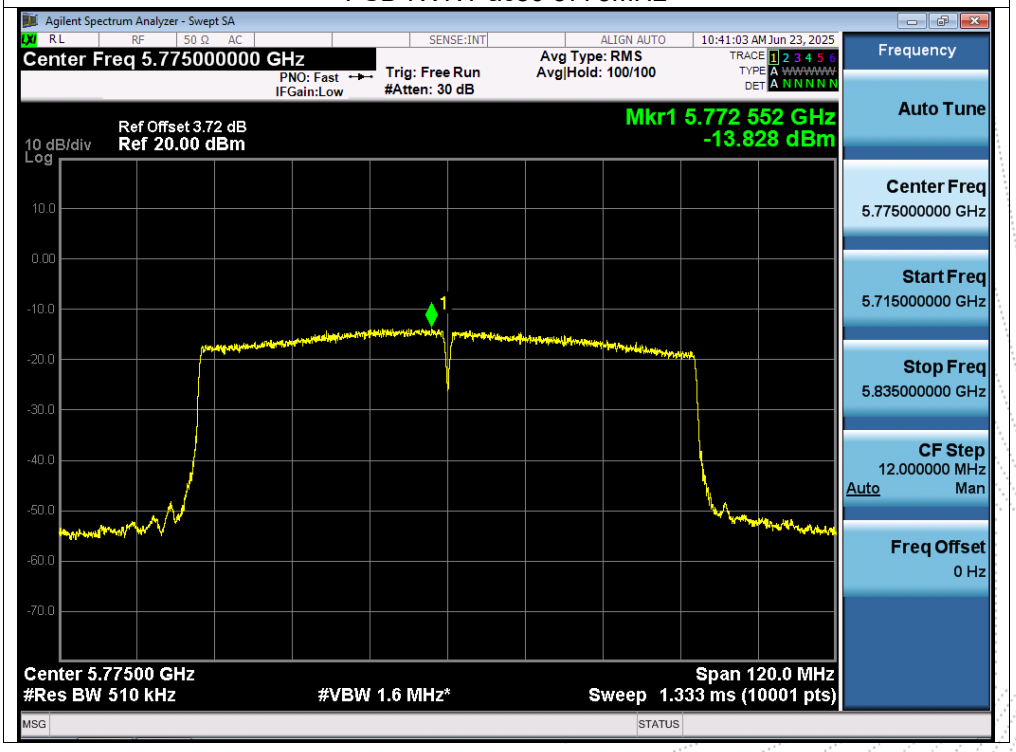
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz

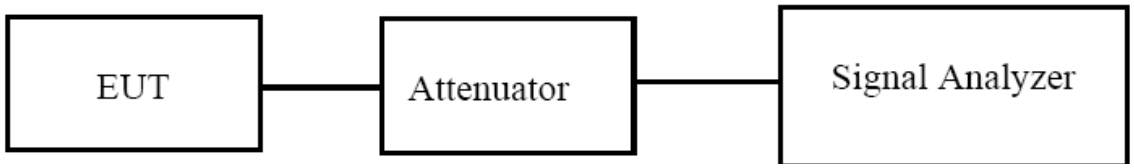


PSD NVNT ac80 5775MHz



9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power
is integrated over the full reference bandwidth.
(6dB bandwidth)>500kHz

9.3 Test Procedure

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 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.

6dB
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.

6. Allow the trace to stabilize.
7. 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.

9.4 EUT Operating Conditions

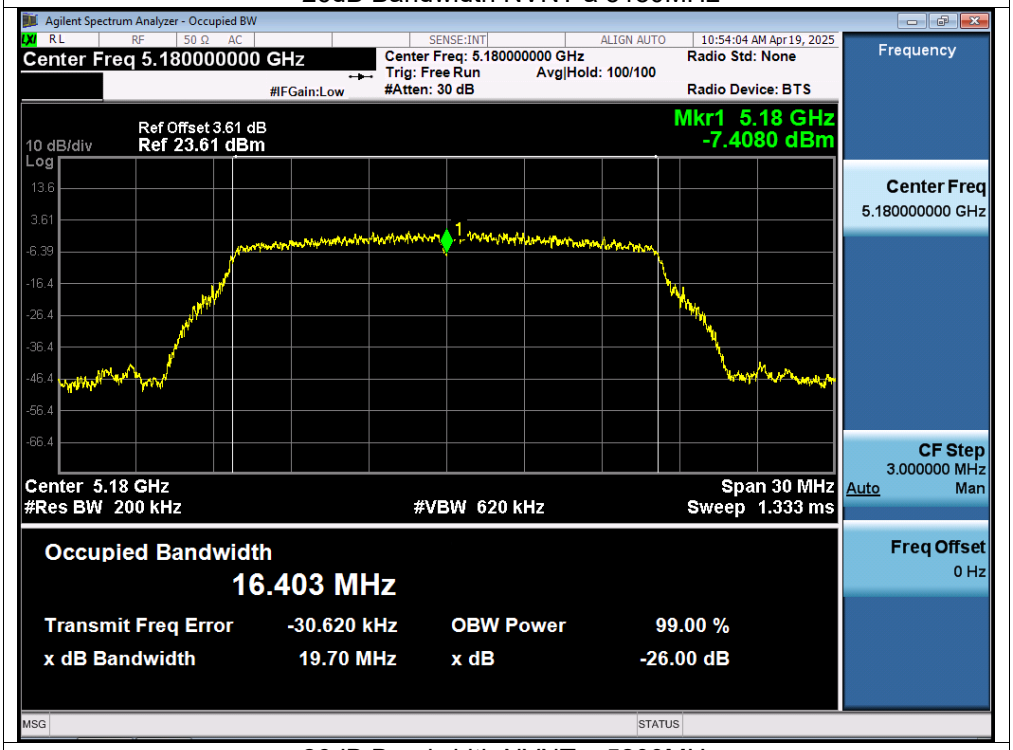
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

9.5 Test Result

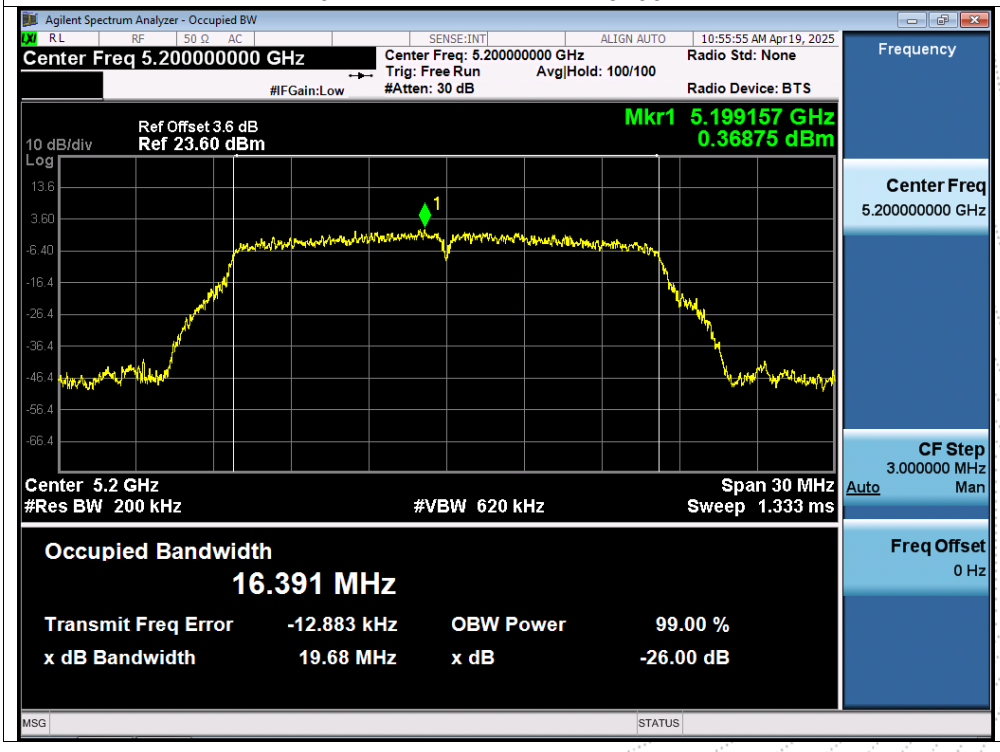
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.87V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.403	19.696	Pass
NVNT	a	5200	16.389	19.684	Pass
NVNT	a	5240	16.412	19.666	Pass
NVNT	n20	5180	17.562	20.355	Pass
NVNT	n20	5200	17.538	19.976	Pass
NVNT	n20	5240	17.563	20.125	Pass
NVNT	n40	5190	35.913	40.117	Pass
NVNT	n40	5230	35.96	40.216	Pass
NVNT	ac20	5180	17.542	20.353	Pass
NVNT	ac20	5200	17.534	20.234	Pass
NVNT	ac20	5240	17.545	19.943	Pass
NVNT	ac40	5190	35.932	40.02	Pass
NVNT	ac40	5230	35.936	40.576	Pass
NVNT	ac80	5210	75.295	80.664	Pass

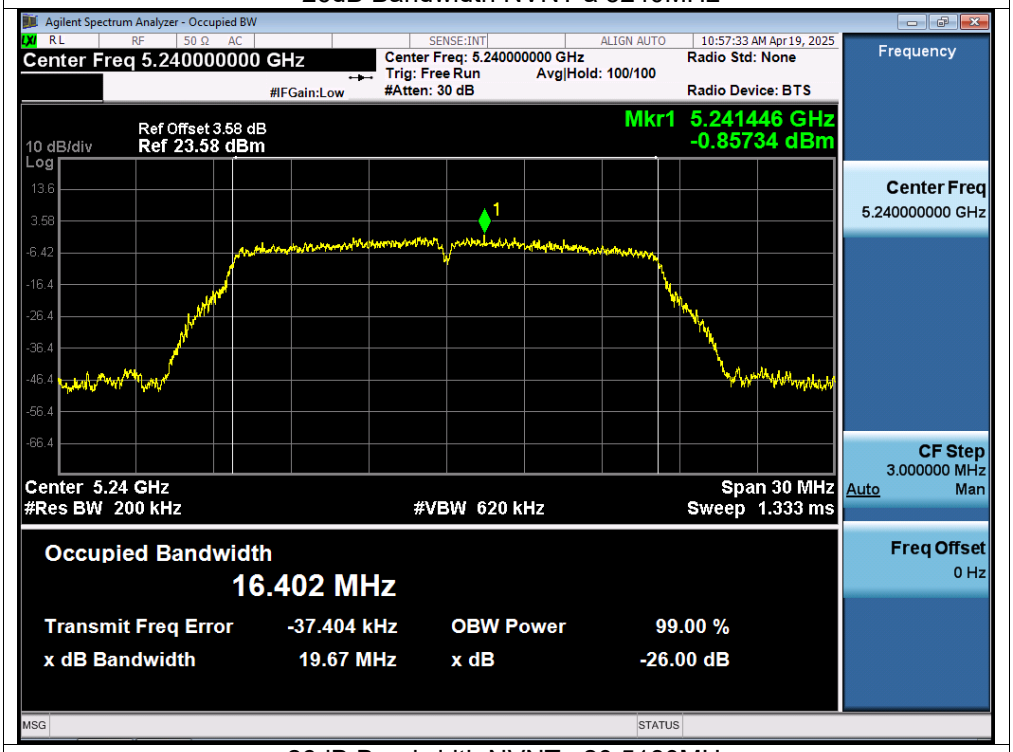
Test Graphs
-26dB Bandwidth NVNT a 5180MHz



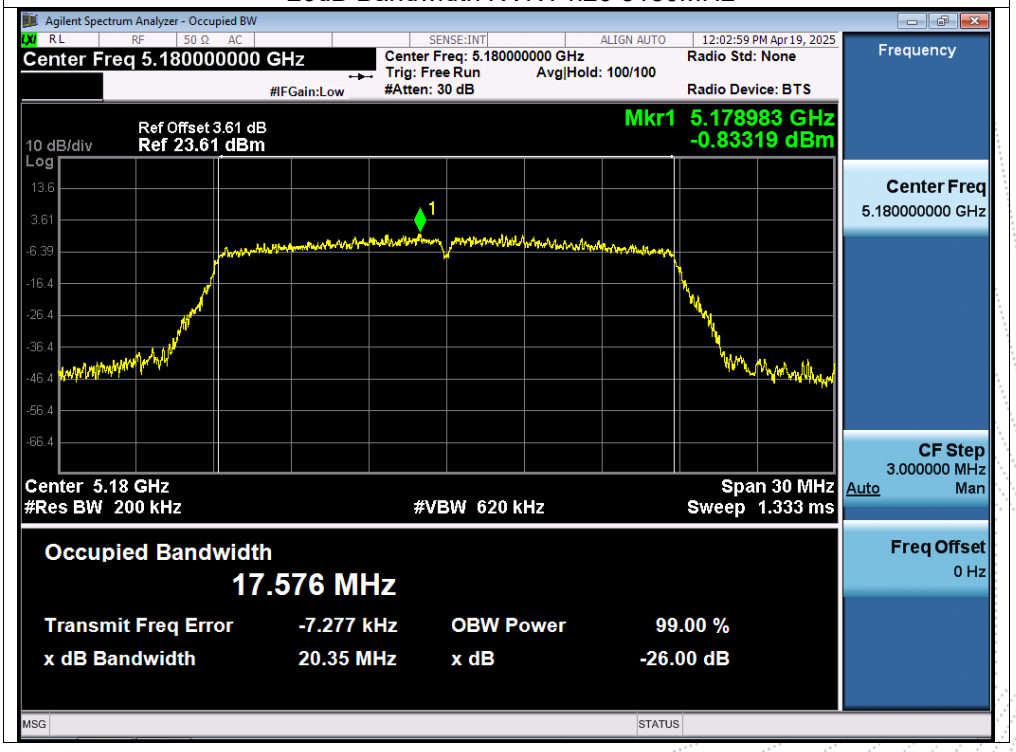
-26dB Bandwidth NVNT a 5200MHz



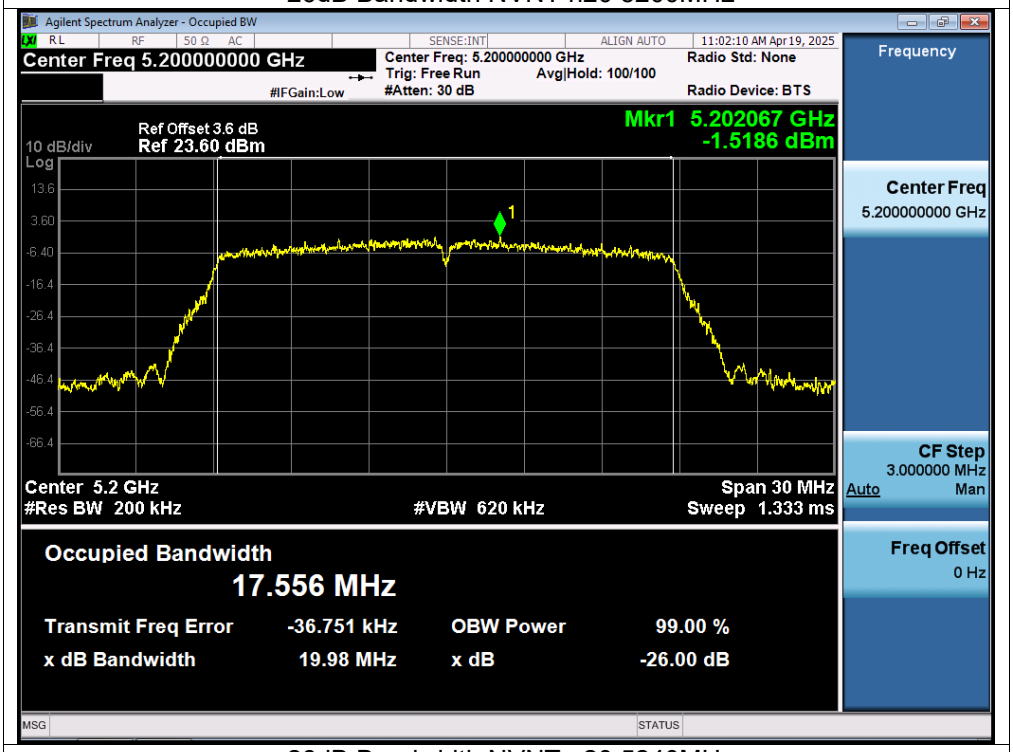
-26dB Bandwidth NVNT a 5240MHz



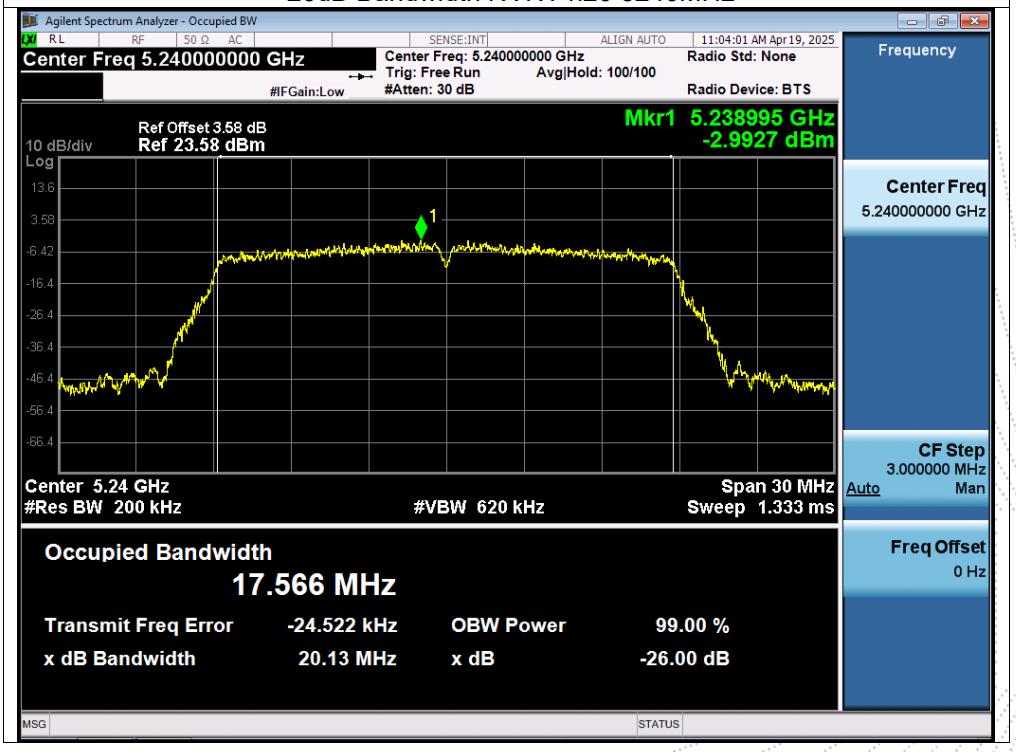
-26dB Bandwidth NVNT n20 5180MHz



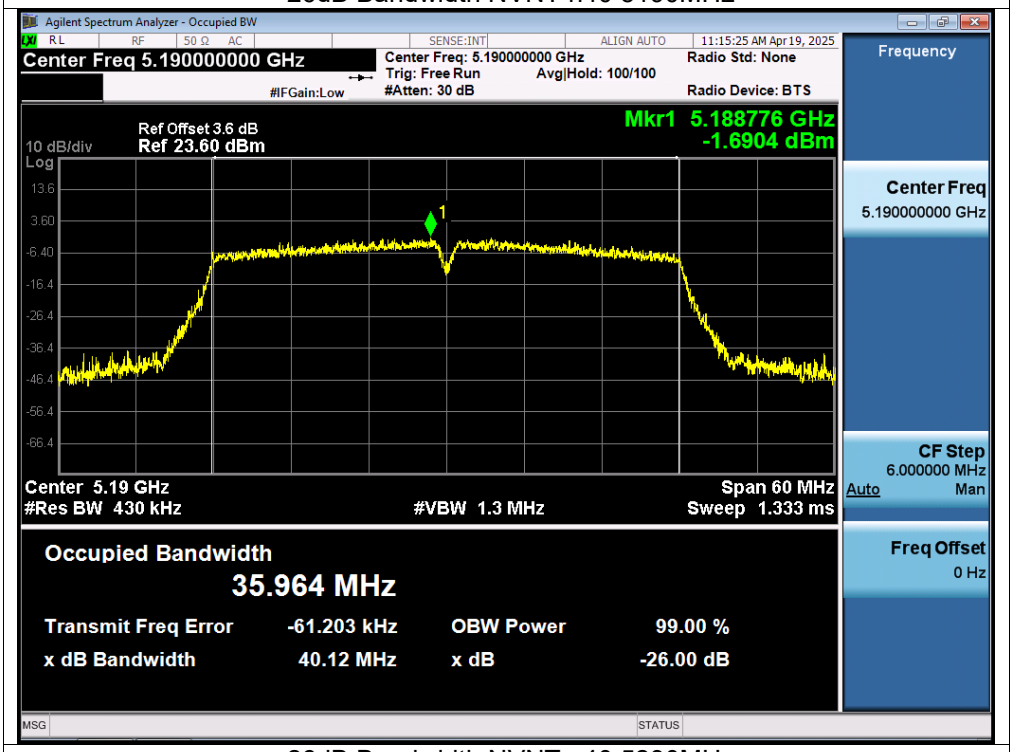
-26dB Bandwidth NVNT n20 5200MHz



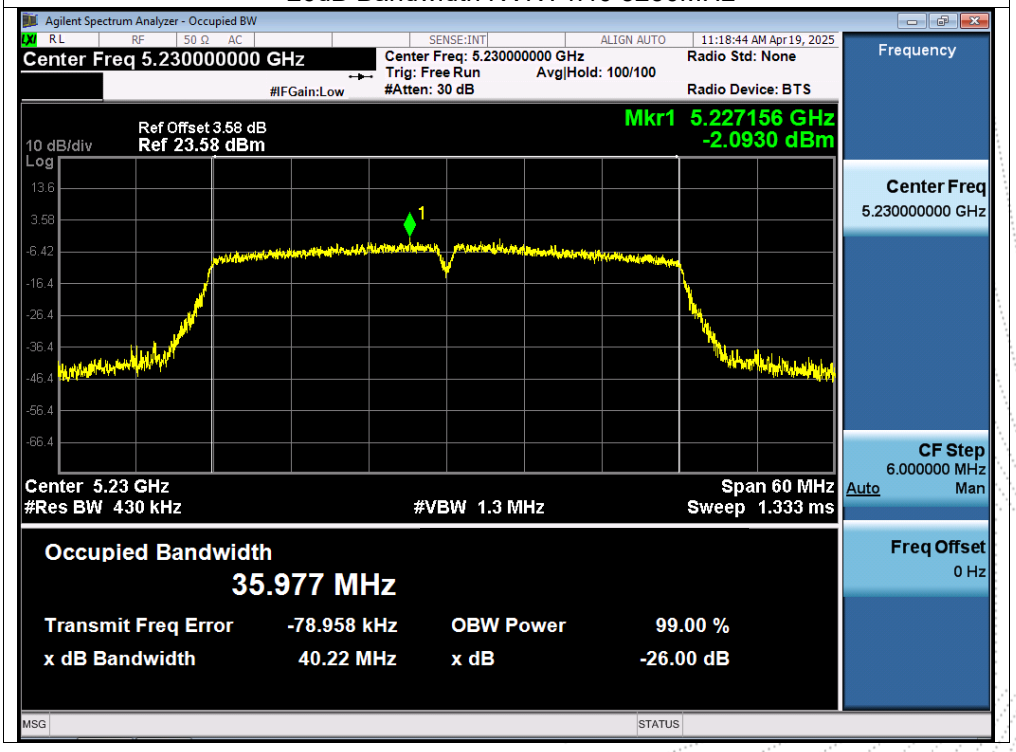
-26dB Bandwidth NVNT n20 5240MHz



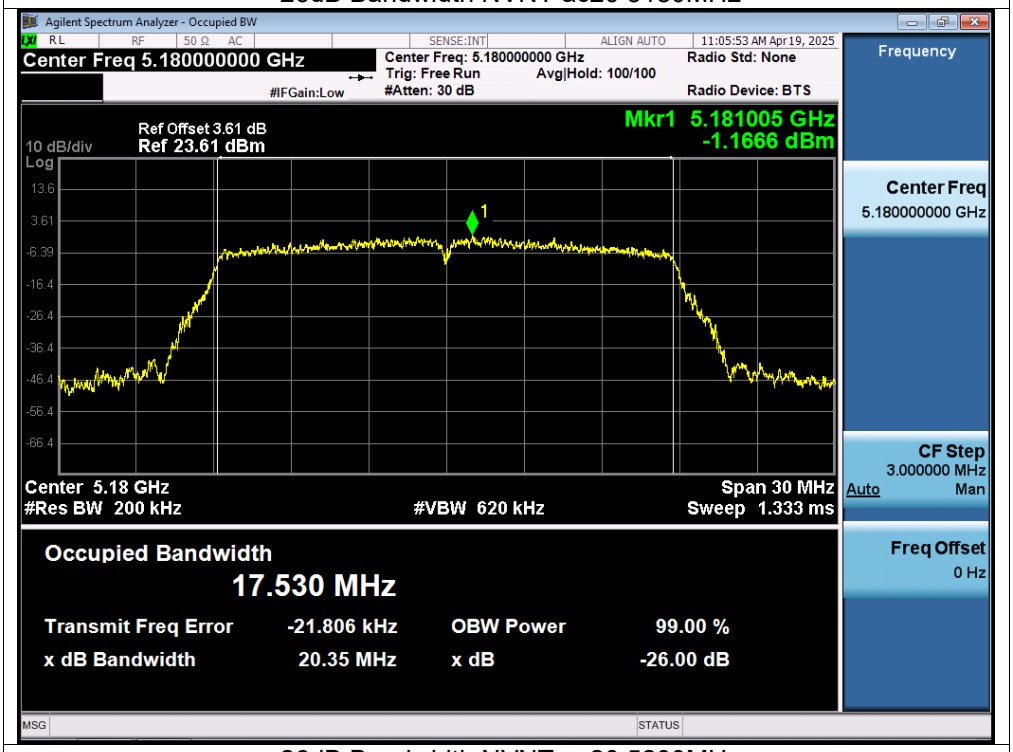
-26dB Bandwidth NVNT n40 5190MHz



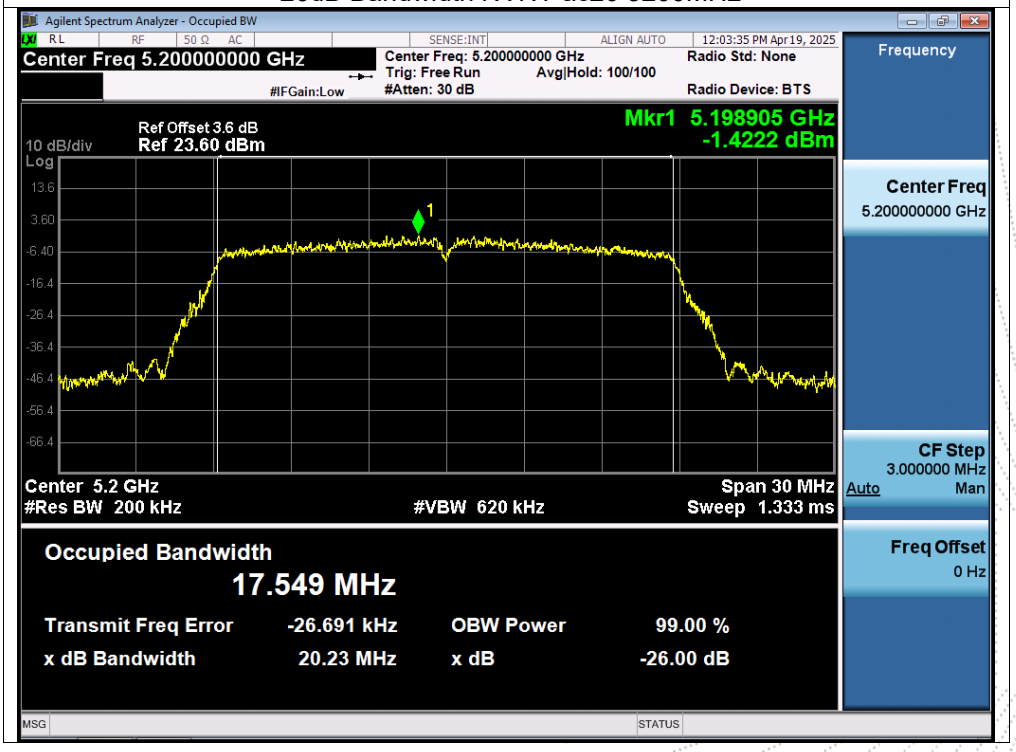
-26dB Bandwidth NVNT n40 5230MHz



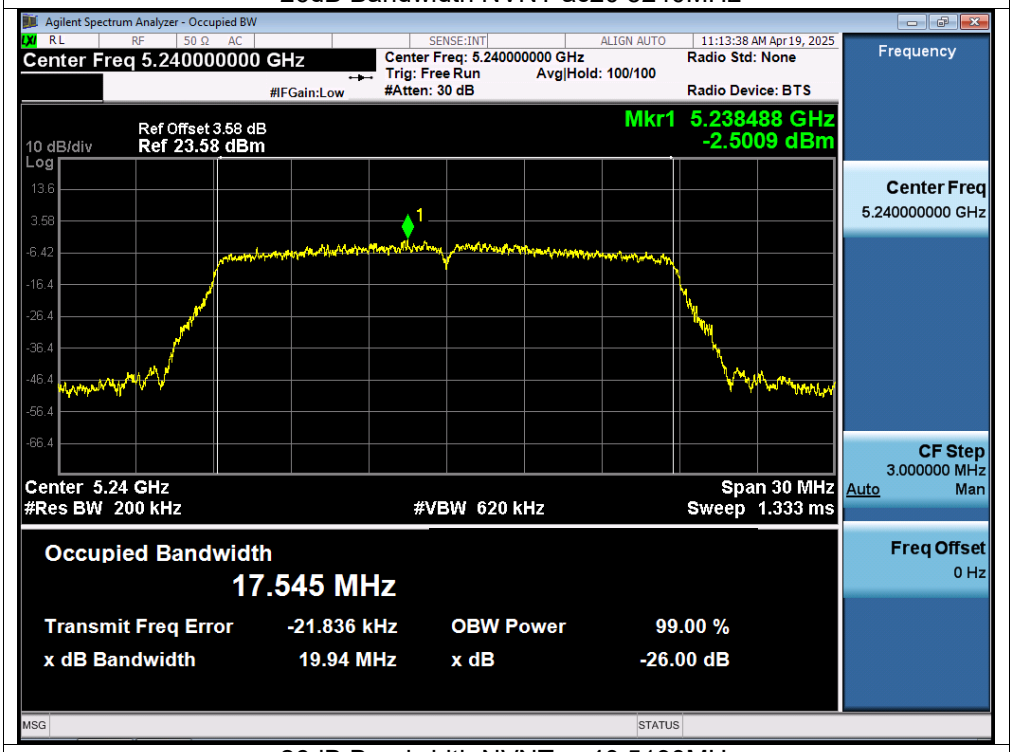
-26dB Bandwidth NVNT ac20 5180MHz



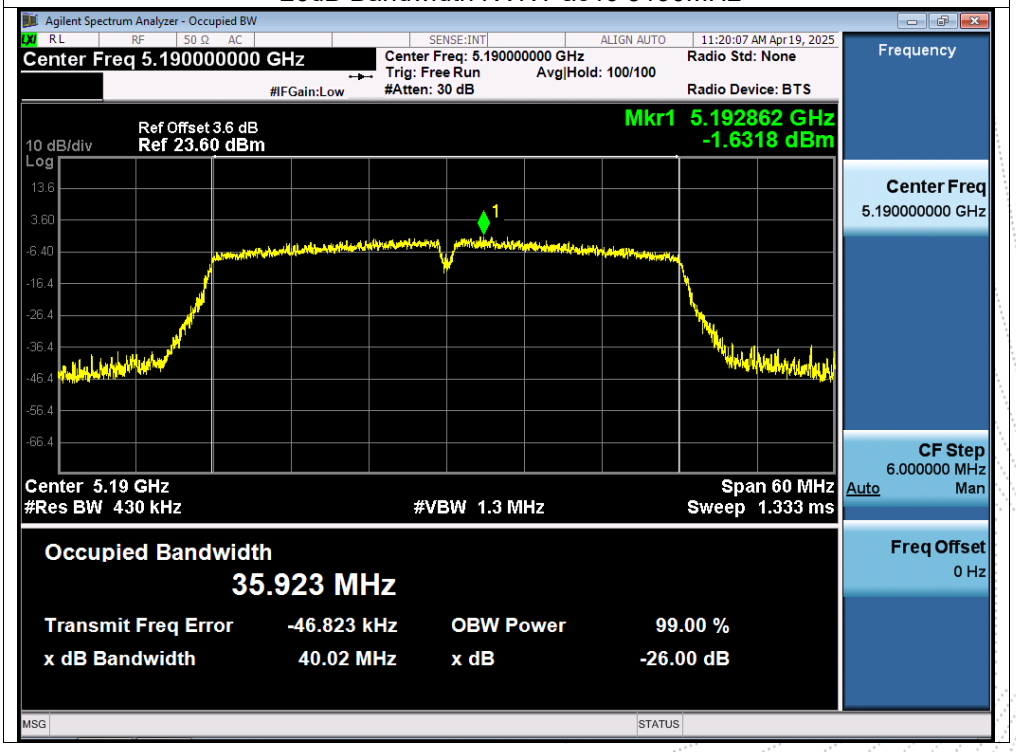
-26dB Bandwidth NVNT ac20 5200MHz



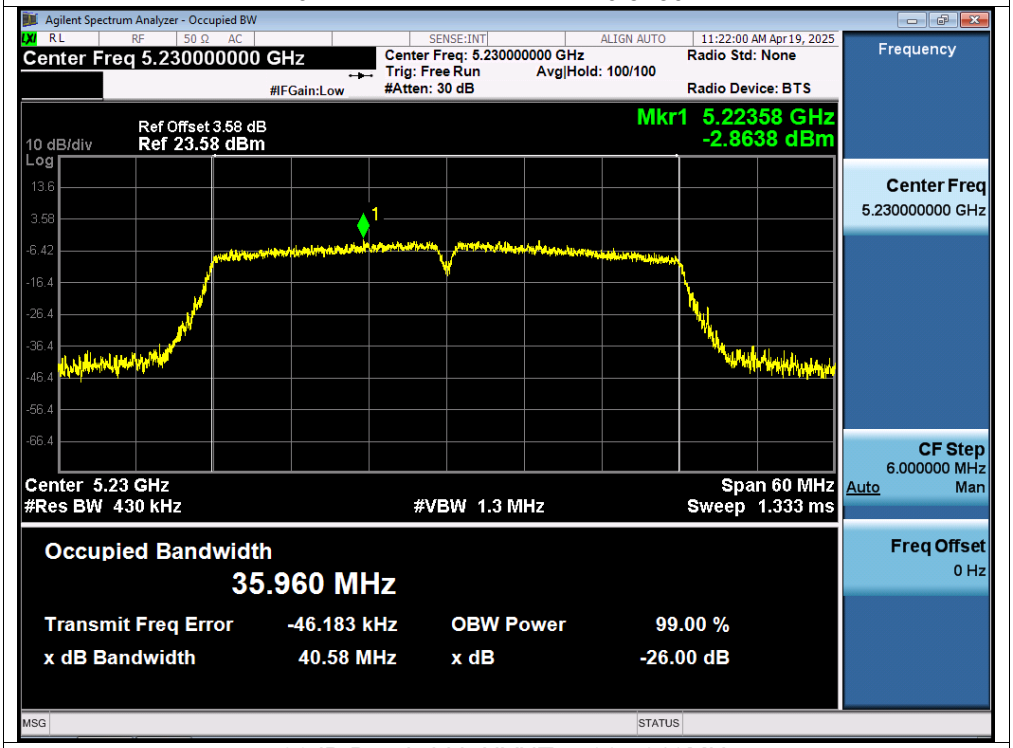
-26dB Bandwidth NVNT ac20 5240MHz



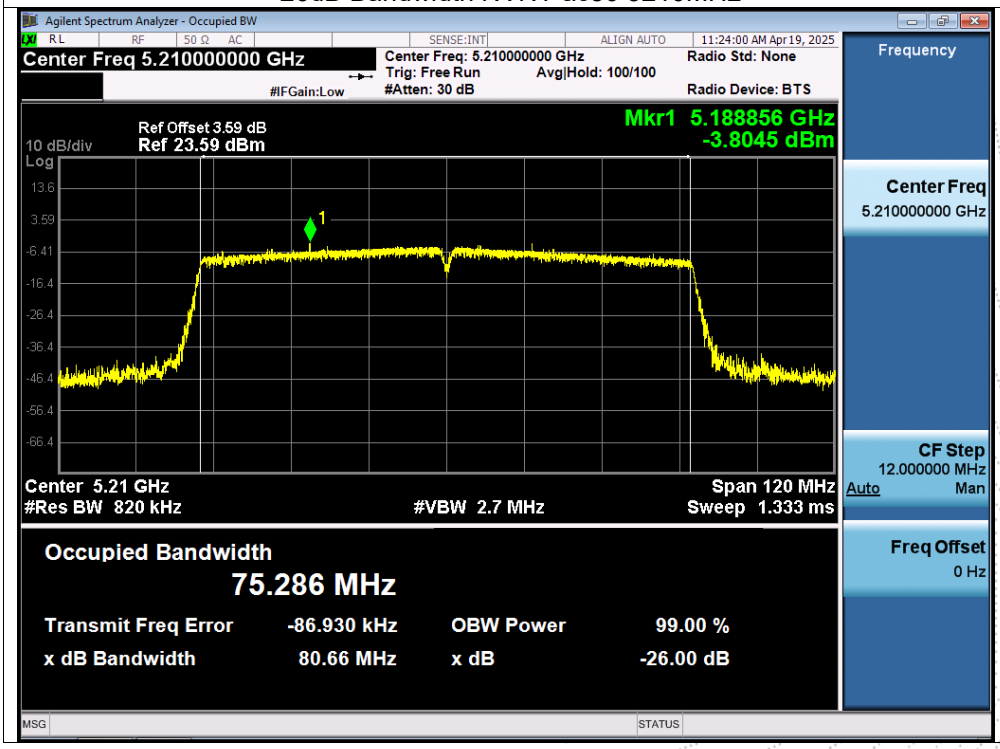
-26dB Bandwidth NVNT ac40 5190MHz



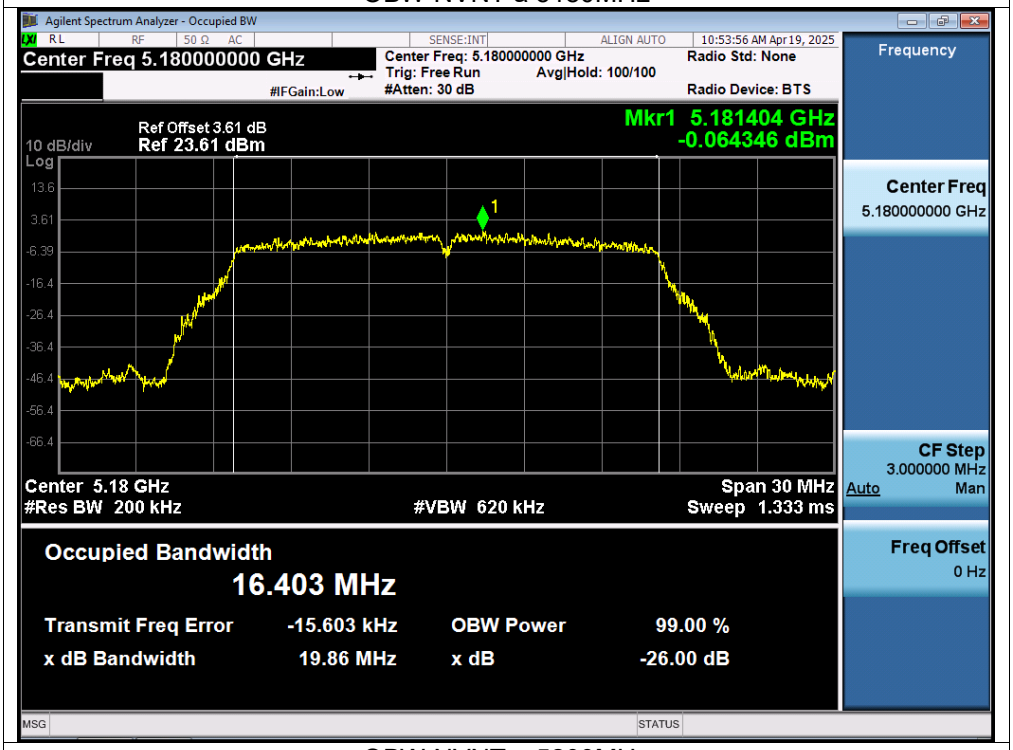
-26dB Bandwidth NVNT ac40 5230MHz



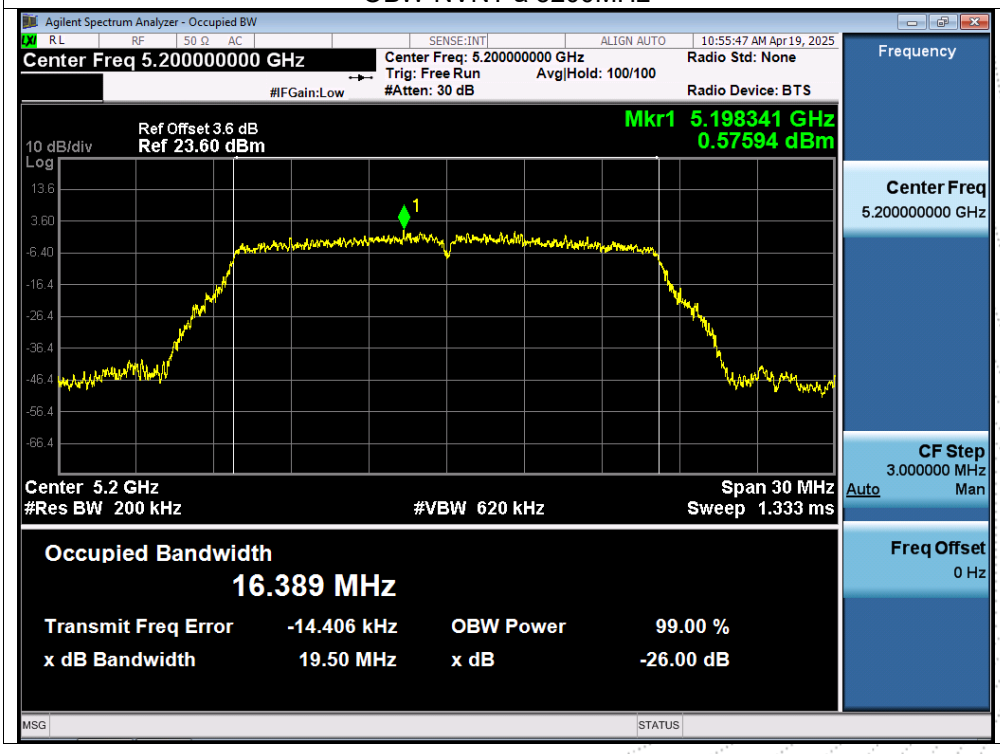
-26dB Bandwidth NVNT ac80 5210MHz



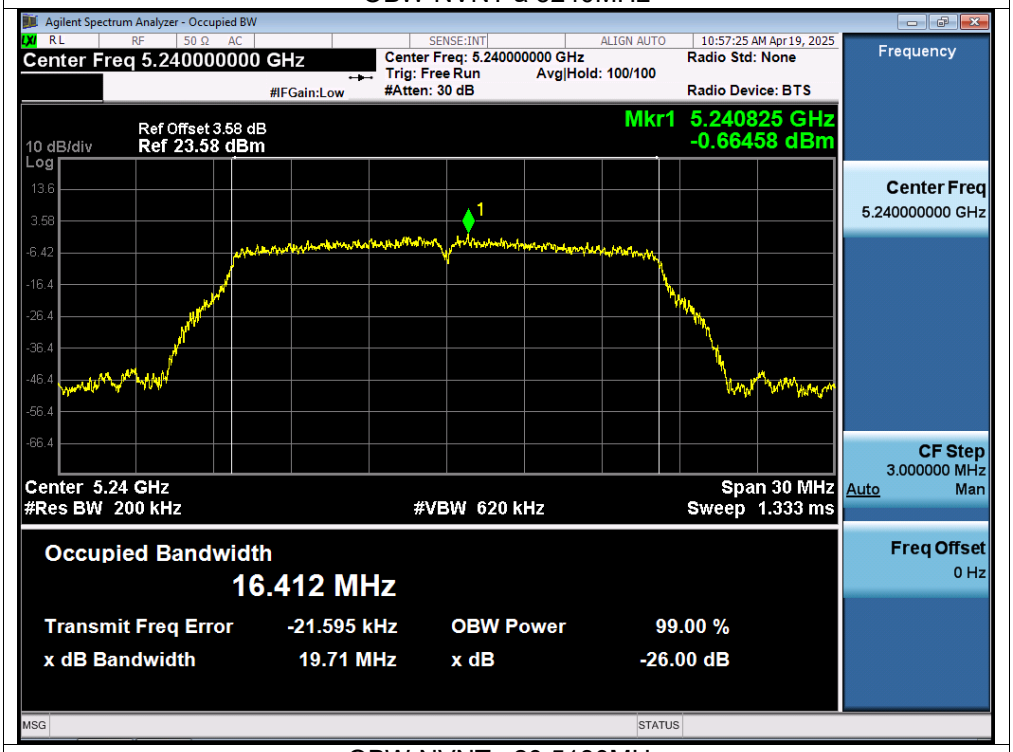
Test Graphs
OBW NVNT a 5180MHz



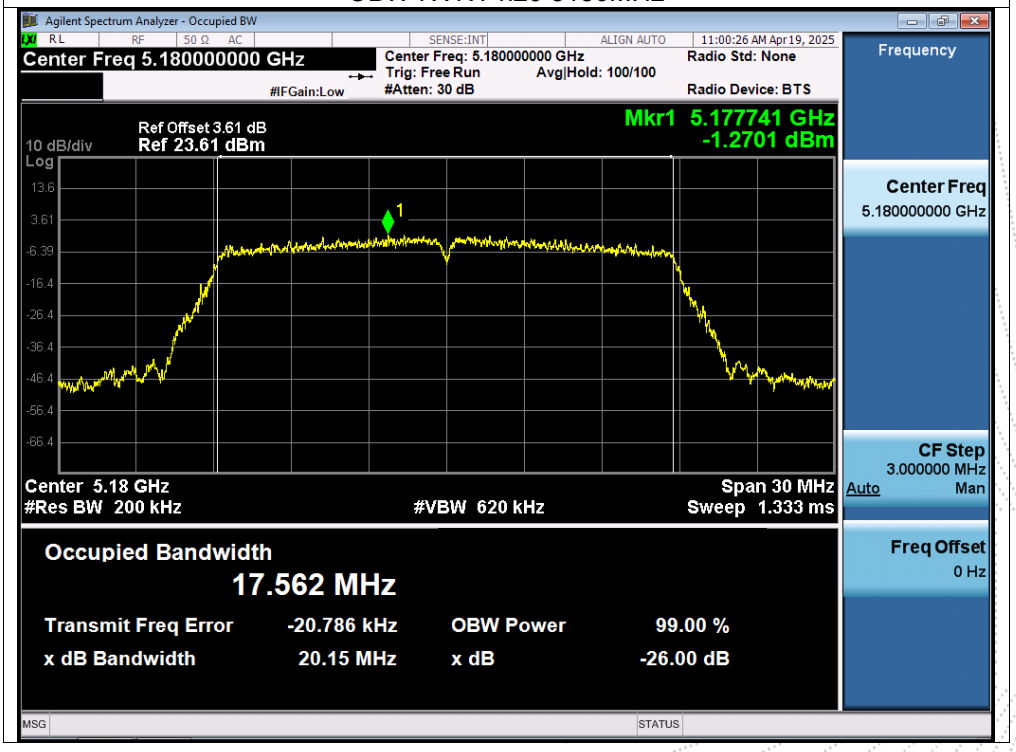
OBW NVNT a 5200MHz



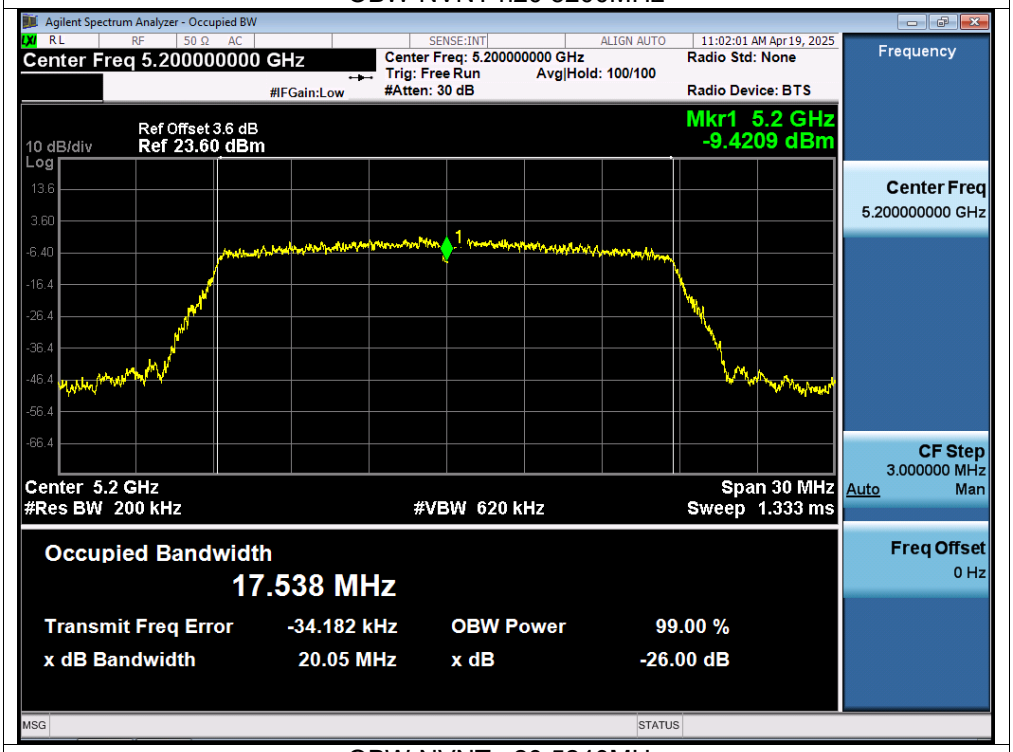
OBW NVNT a 5240MHz



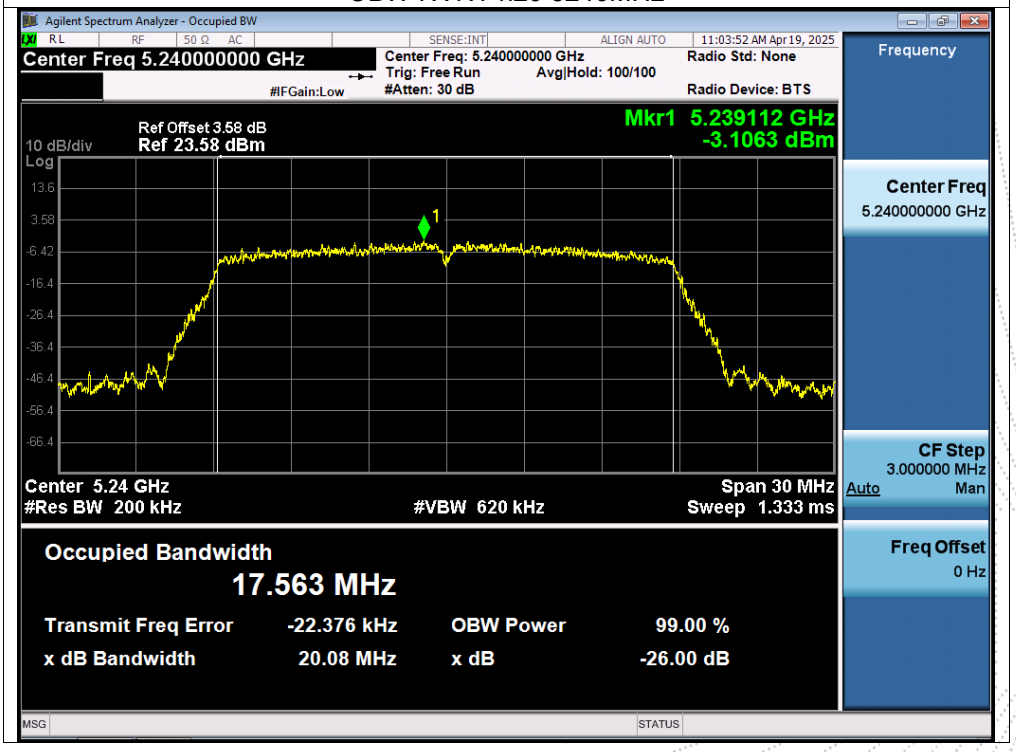
OBW NVNT n20 5180MHz



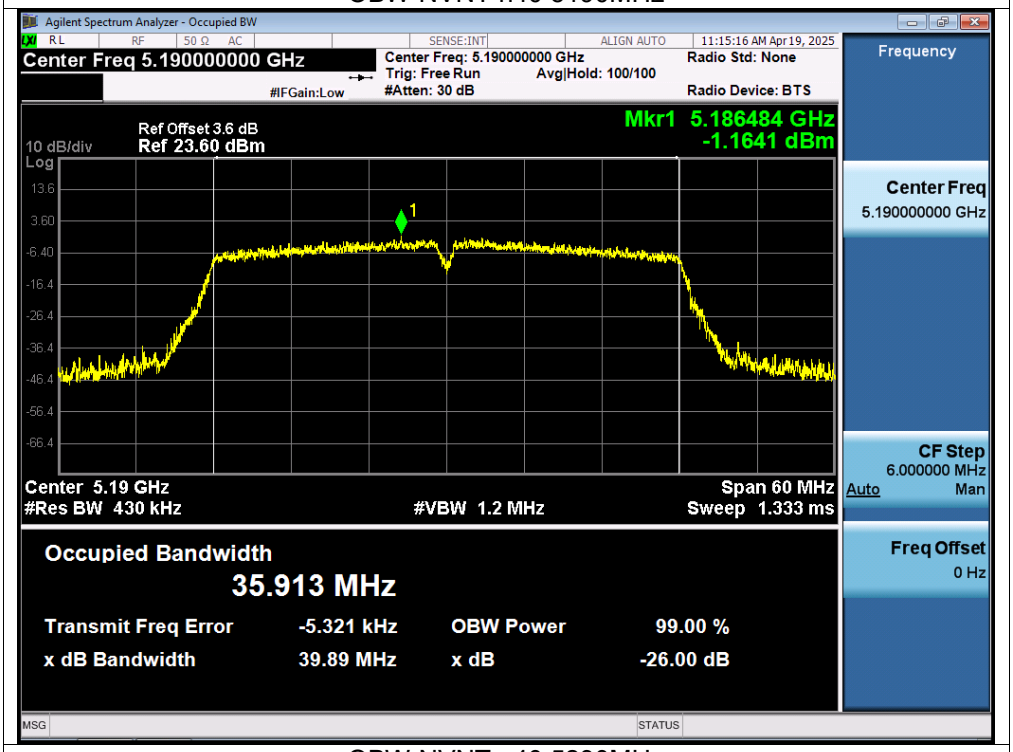
OBW NVNT n20 5200MHz



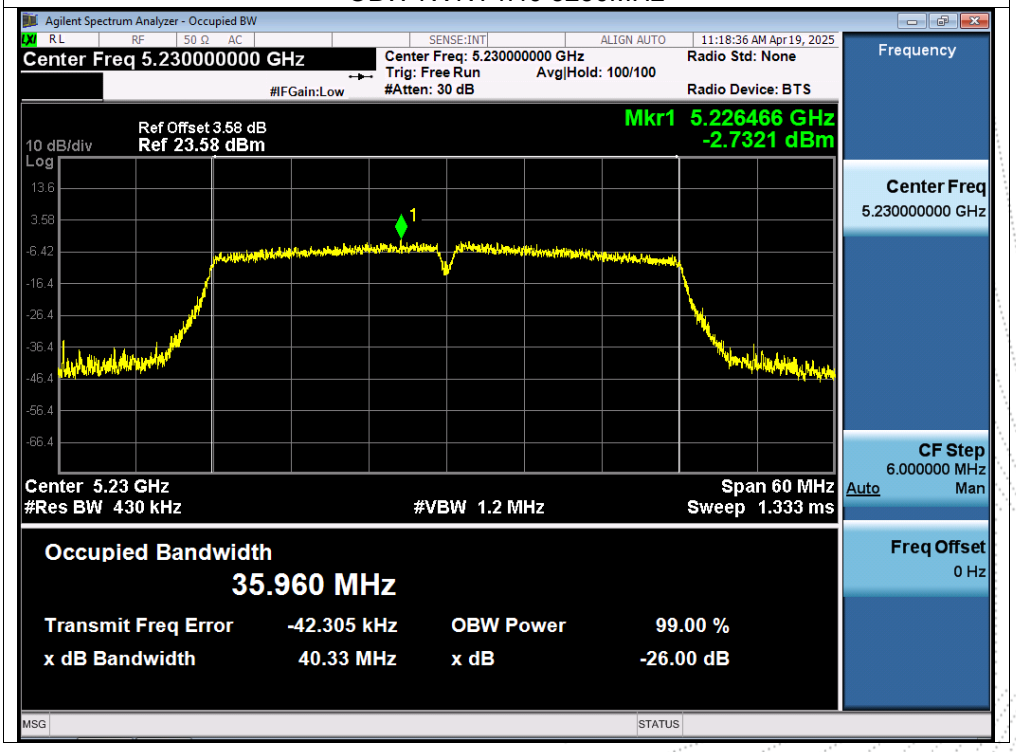
OBW NVNT n20 5240MHz



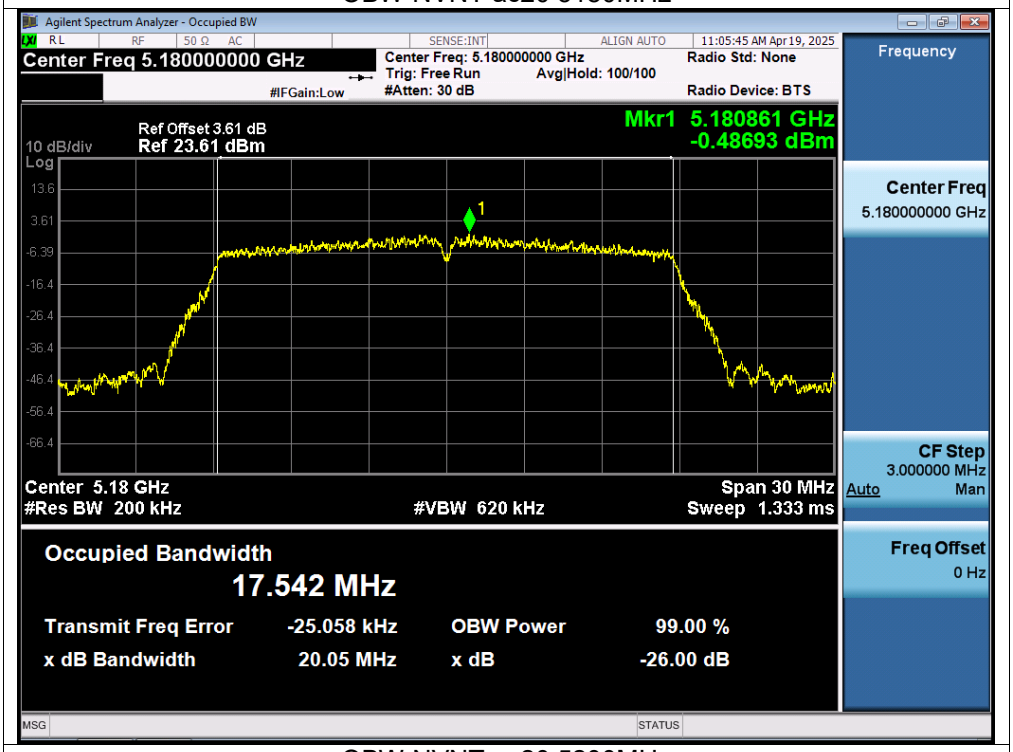
OBW NVNT n40 5190MHz



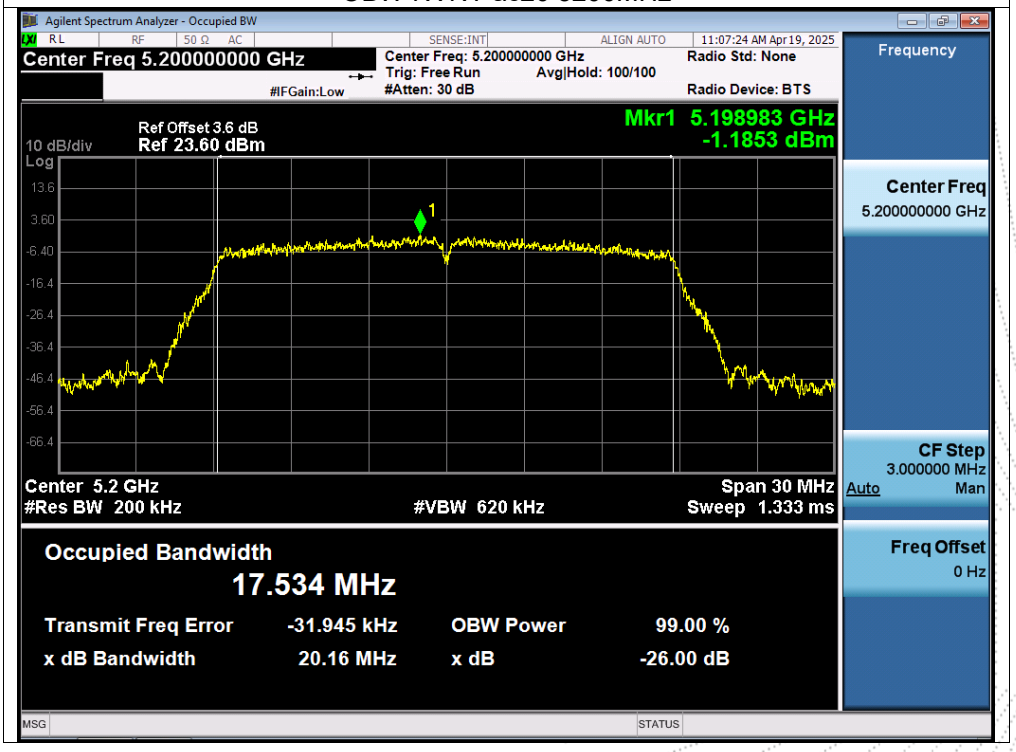
OBW NVNT n40 5230MHz



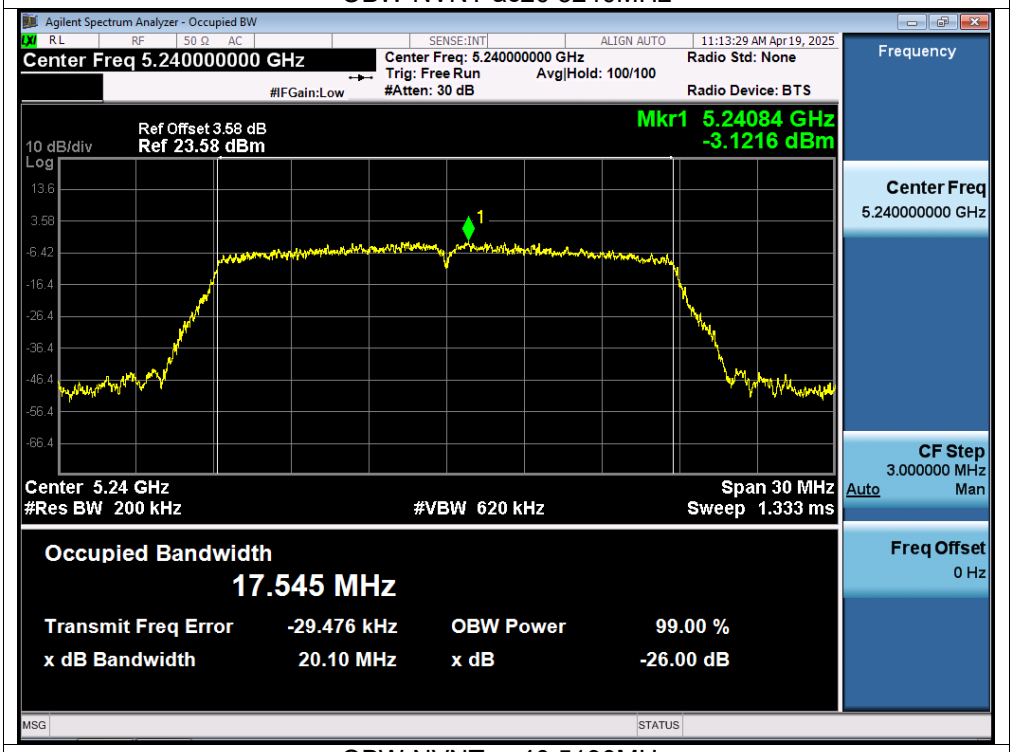
OBW NVNT ac20 5180MHz



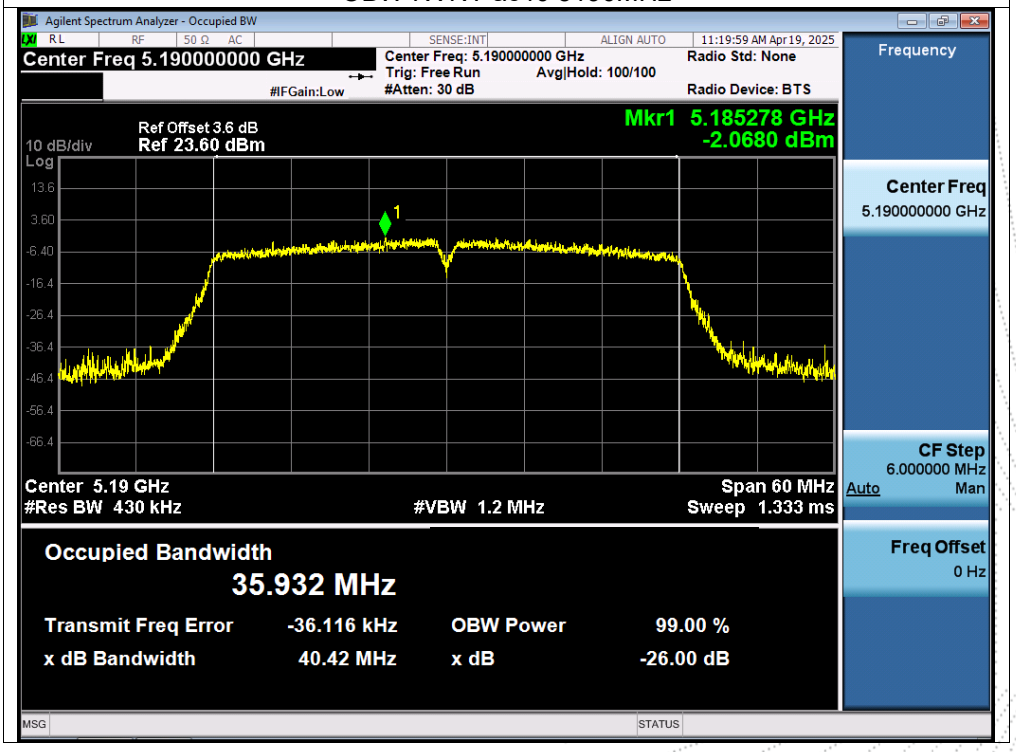
OBW NVNT ac20 5200MHz



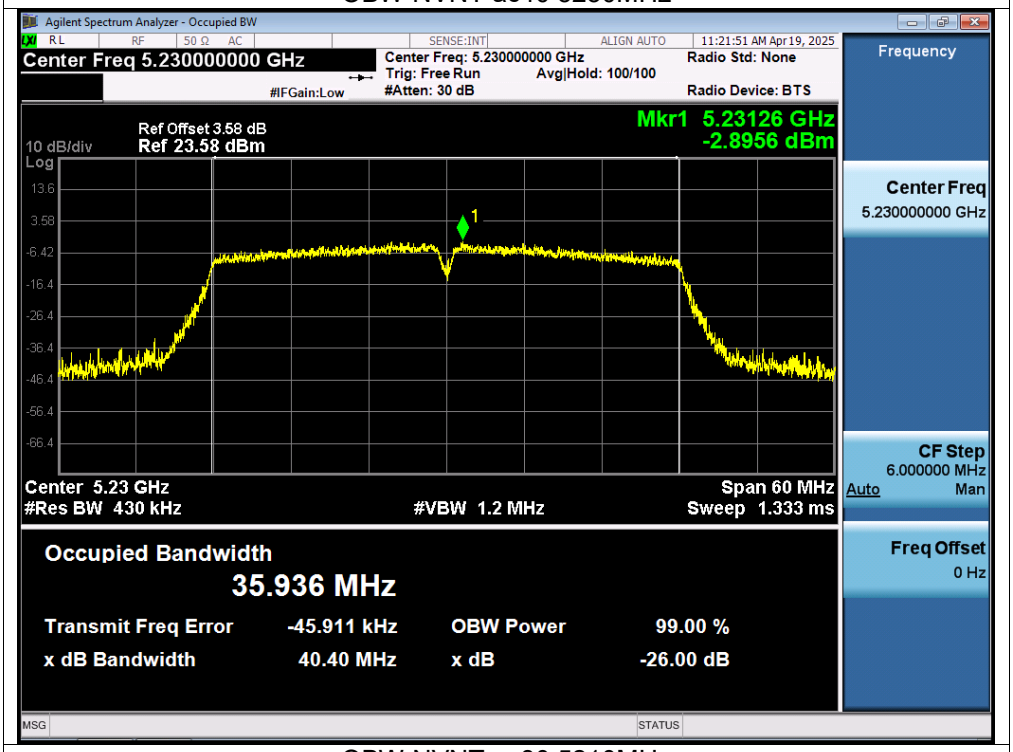
OBW NVNT ac20 5240MHz



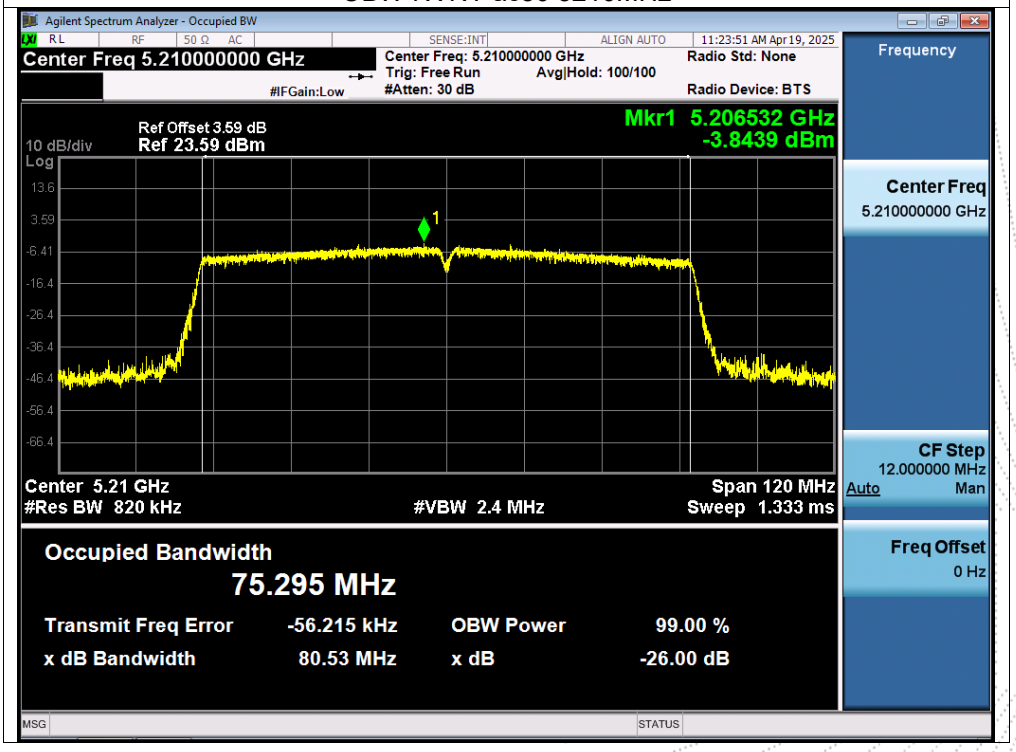
OBW NVNT ac40 5190MHz



OBW NVNT ac40 5230MHz



OBW NVNT ac80 5210MHz

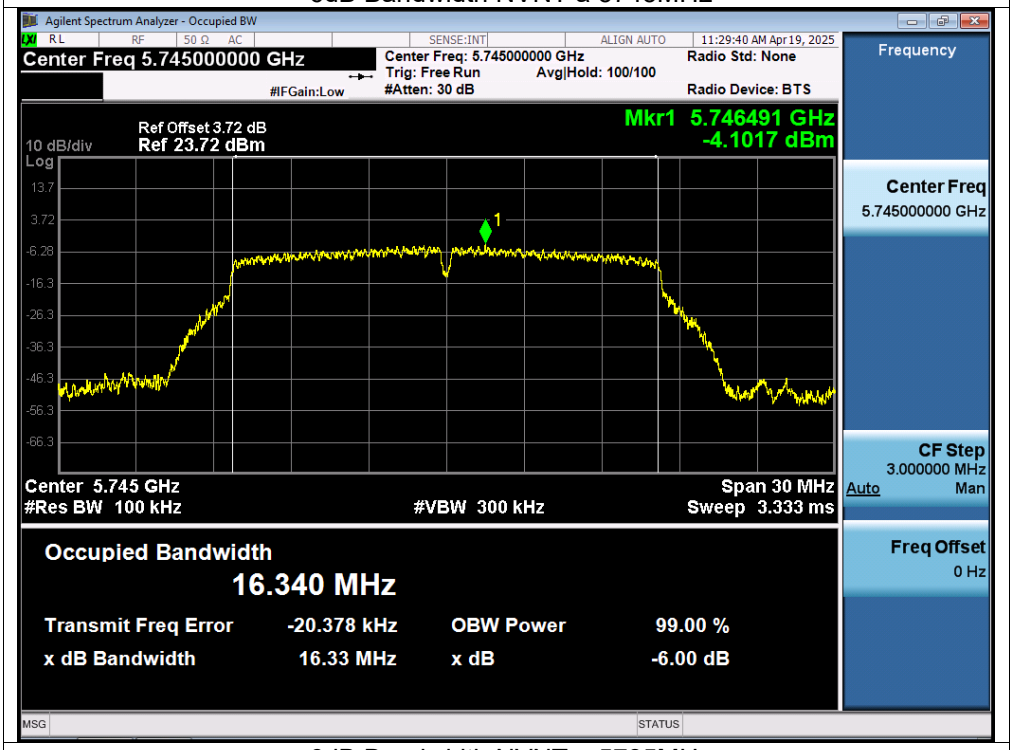


Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.87V
Test Mode :	TX Frequency U-NII-3(5745-5825MHz)		

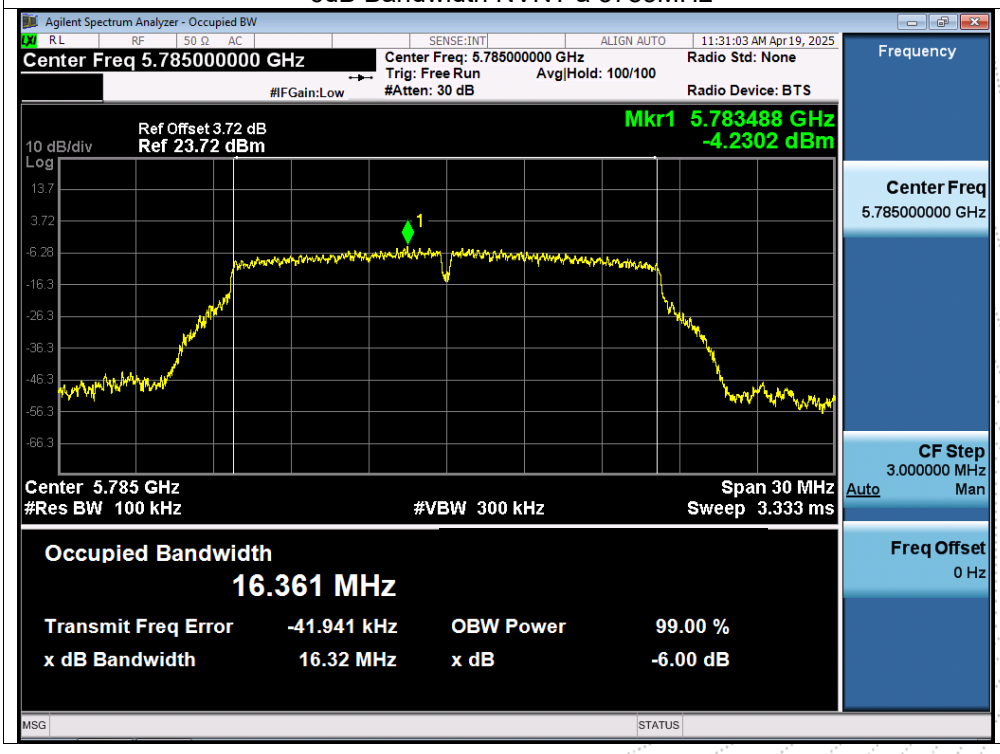
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth (MHz)	Result
NVNT	a	5745	16.375	16.334	0.5	Pass
NVNT	a	5785	16.425	16.319	0.5	Pass
NVNT	a	5825	16.371	16.313	0.5	Pass
NVNT	n20	5745	17.549	17.583	0.5	Pass
NVNT	n20	5785	17.542	17.587	0.5	Pass
NVNT	n20	5825	17.556	17.554	0.5	Pass
NVNT	n40	5755	35.947	36.288	0.5	Pass
NVNT	n40	5795	35.899	35.948	0.5	Pass
NVNT	ac20	5745	17.528	17.578	0.5	Pass
NVNT	ac20	5785	17.561	17.577	0.5	Pass
NVNT	ac20	5825	17.552	17.581	0.5	Pass
NVNT	ac40	5755	35.926	36.048	0.5	Pass
NVNT	ac40	5795	35.926	36.069	0.5	Pass
NVNT	ac80	5775	75.159	74.798	0.5	Pass

Test Graphs

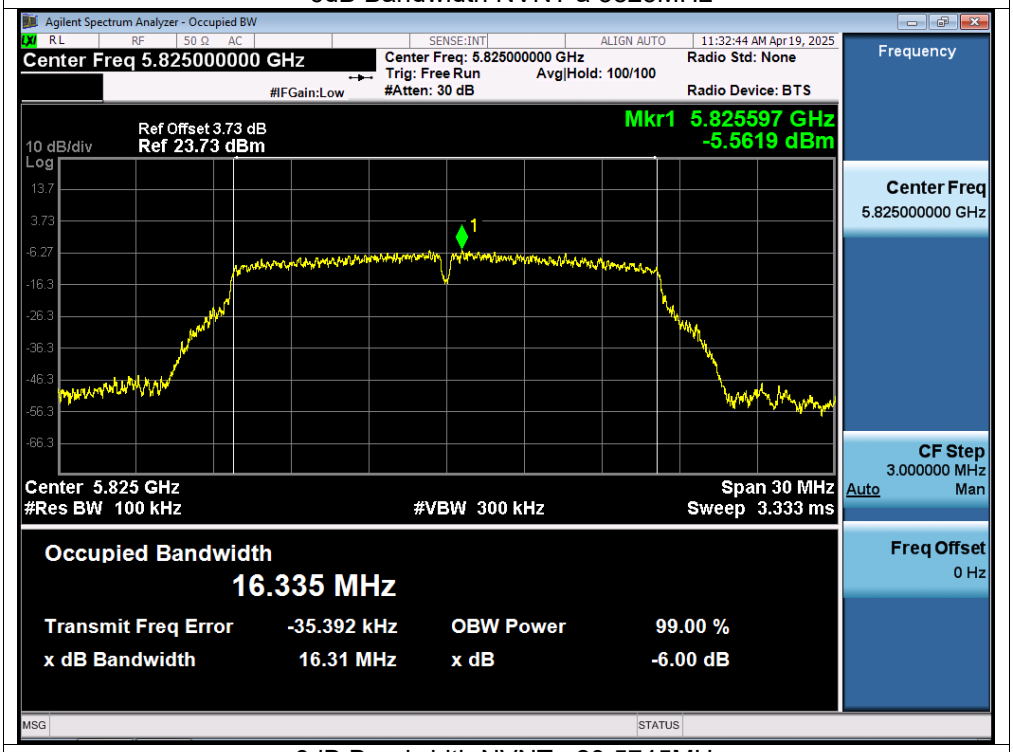
-6dB Bandwidth NVNT a 5745MHz



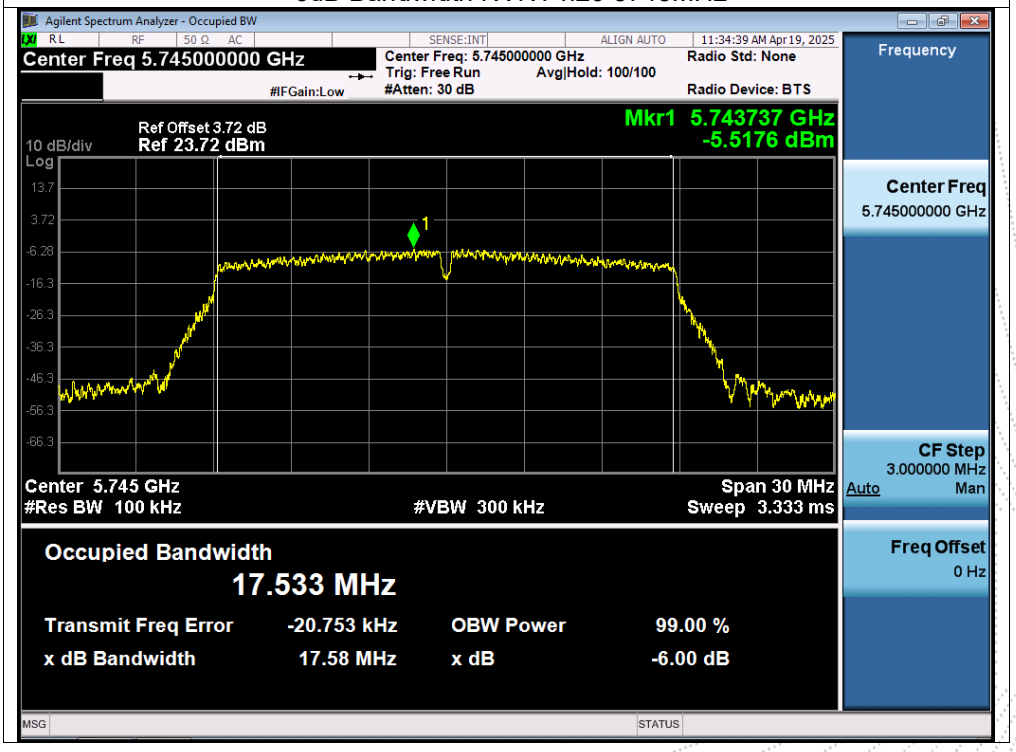
-6dB Bandwidth NVNT a 5785MHz



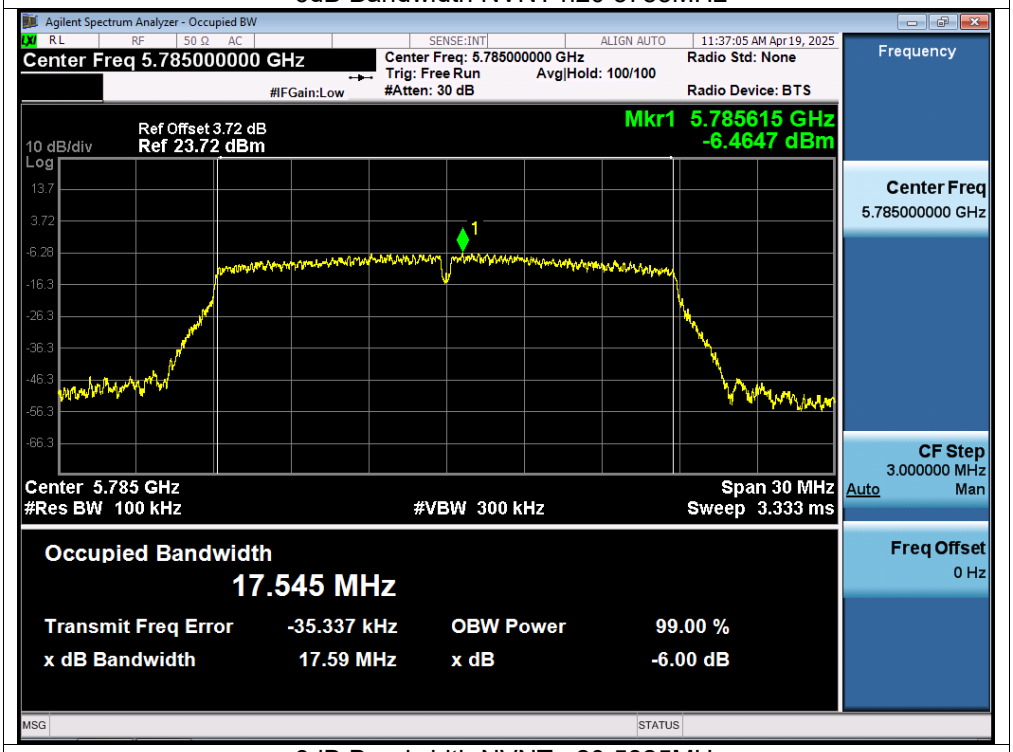
-6dB Bandwidth NVNT a 5825MHz



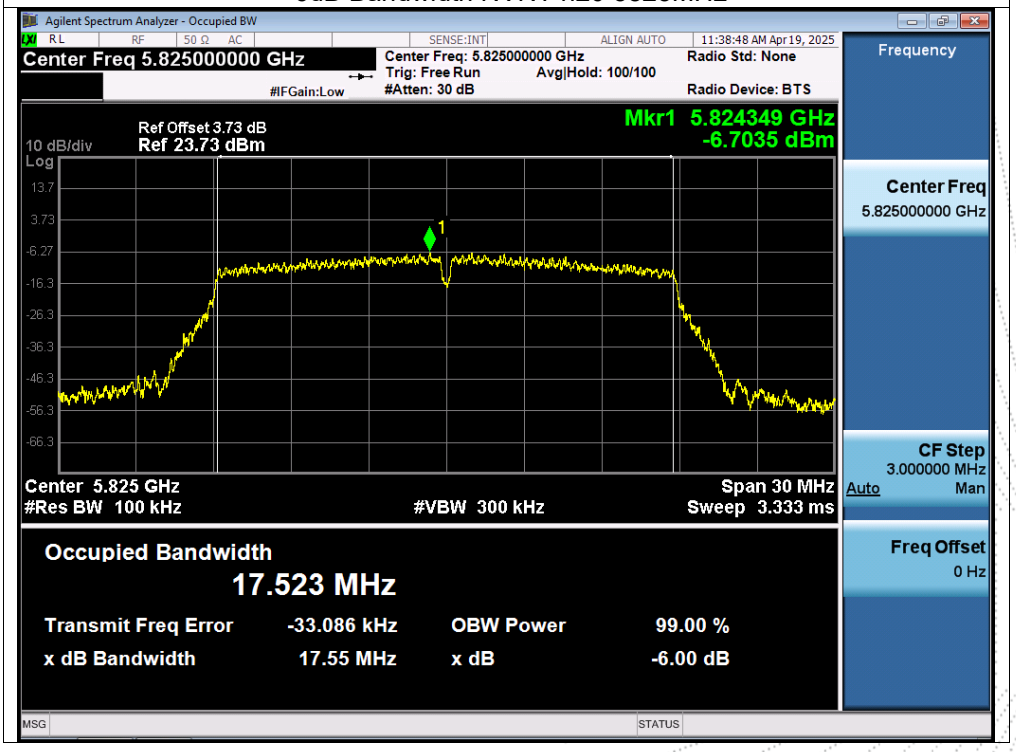
-6dB Bandwidth NVNT n20 5745MHz



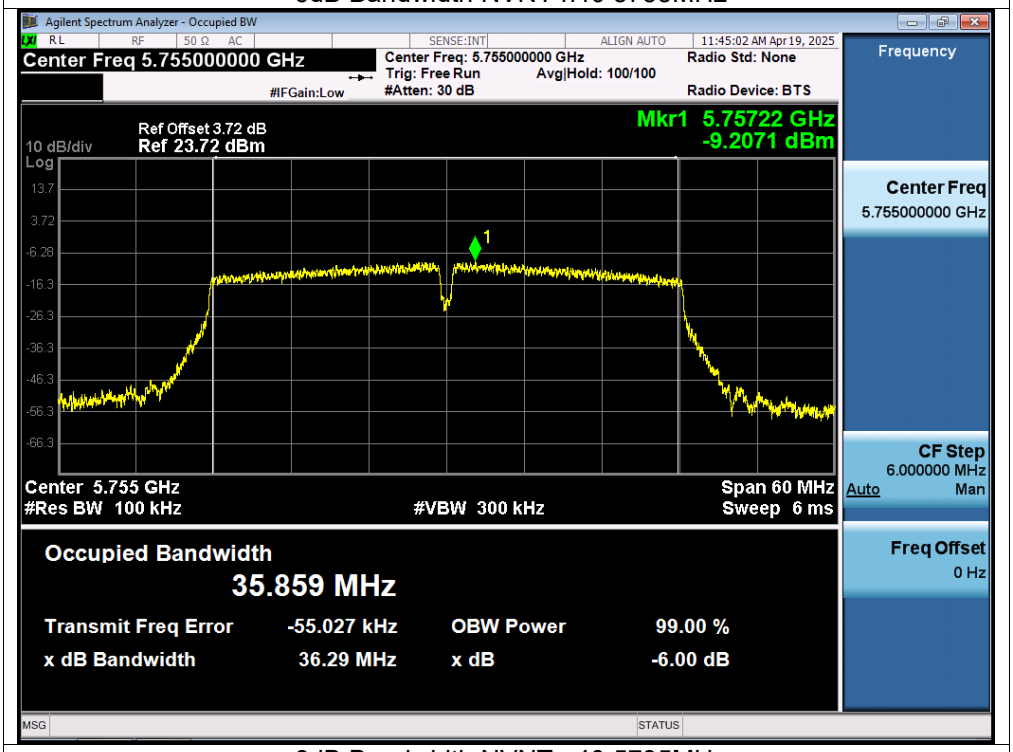
-6dB Bandwidth NVNT n20 5785MHz



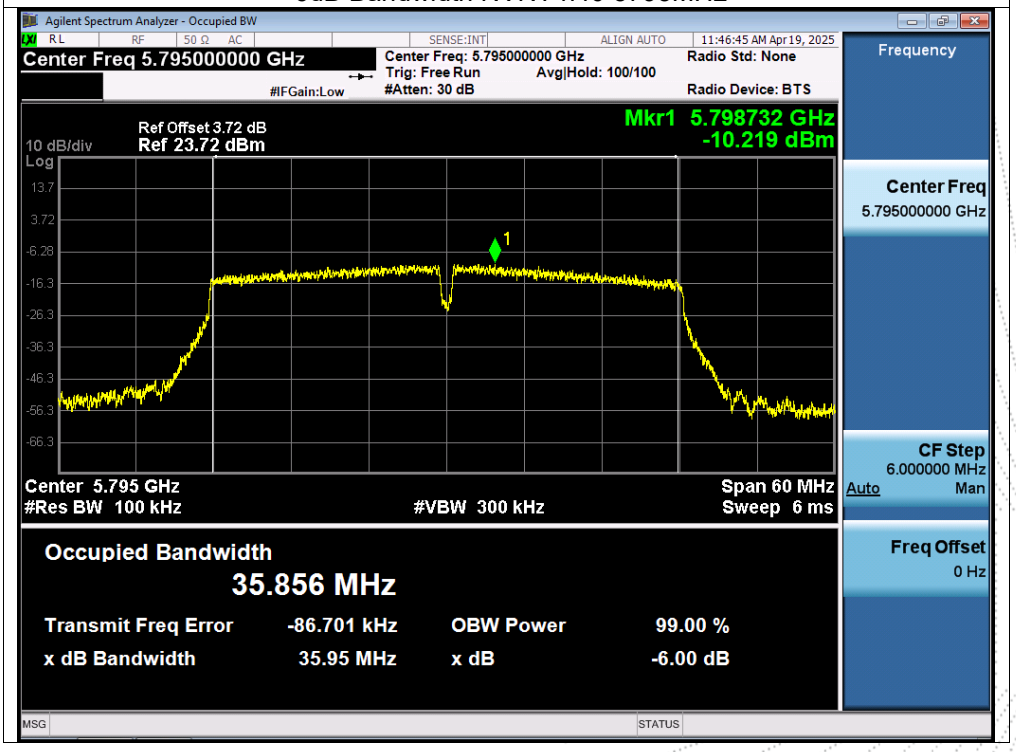
-6dB Bandwidth NVNT n20 5825MHz



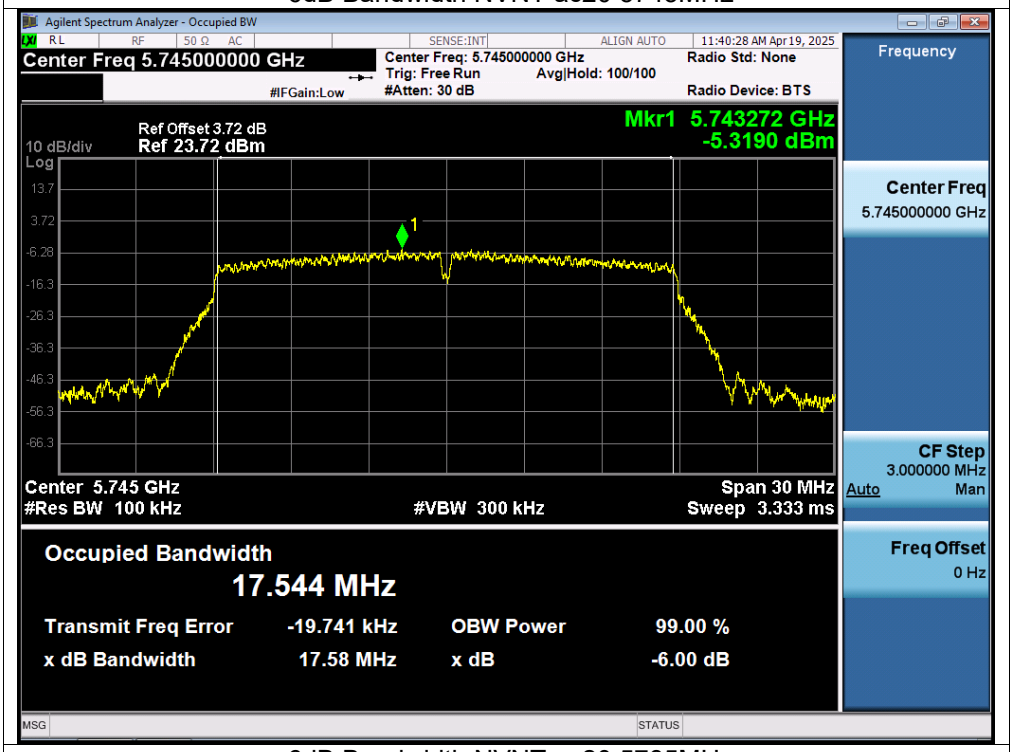
-6dB Bandwidth NVNT n40 5755MHz



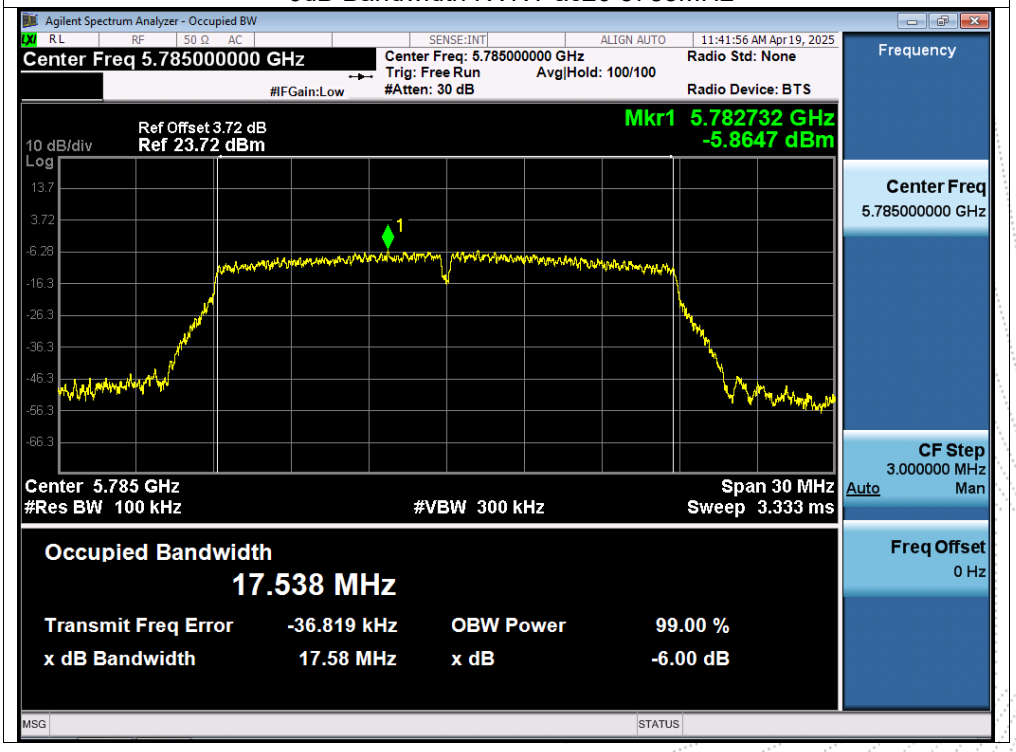
-6dB Bandwidth NVNT n40 5795MHz



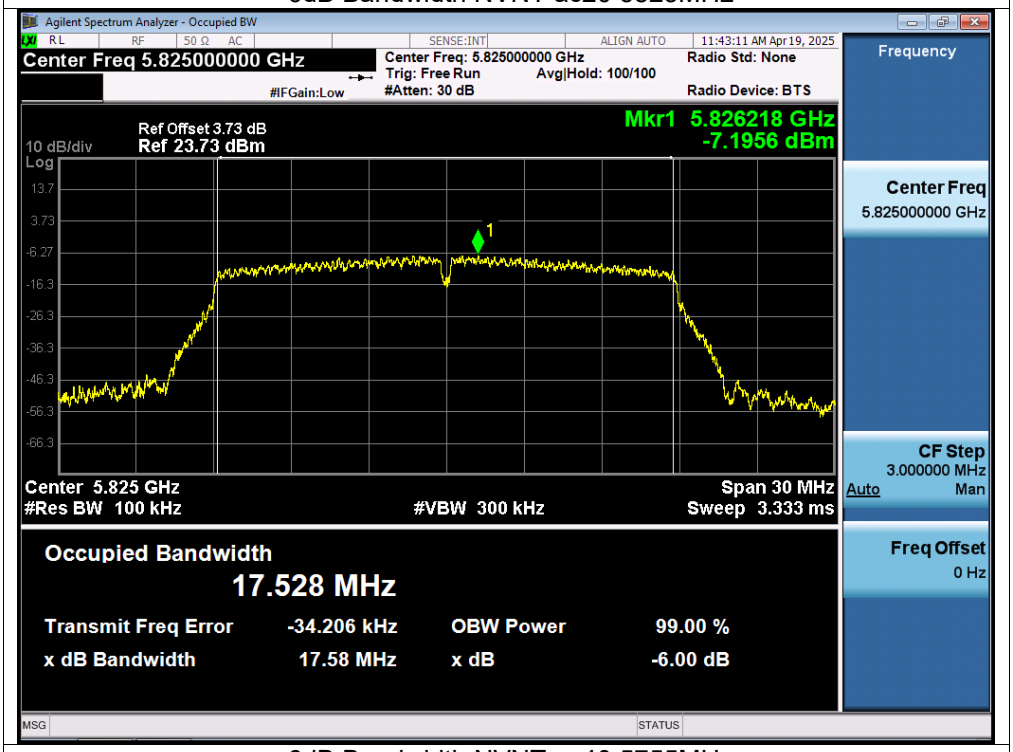
-6dB Bandwidth NVNT ac20 5745MHz



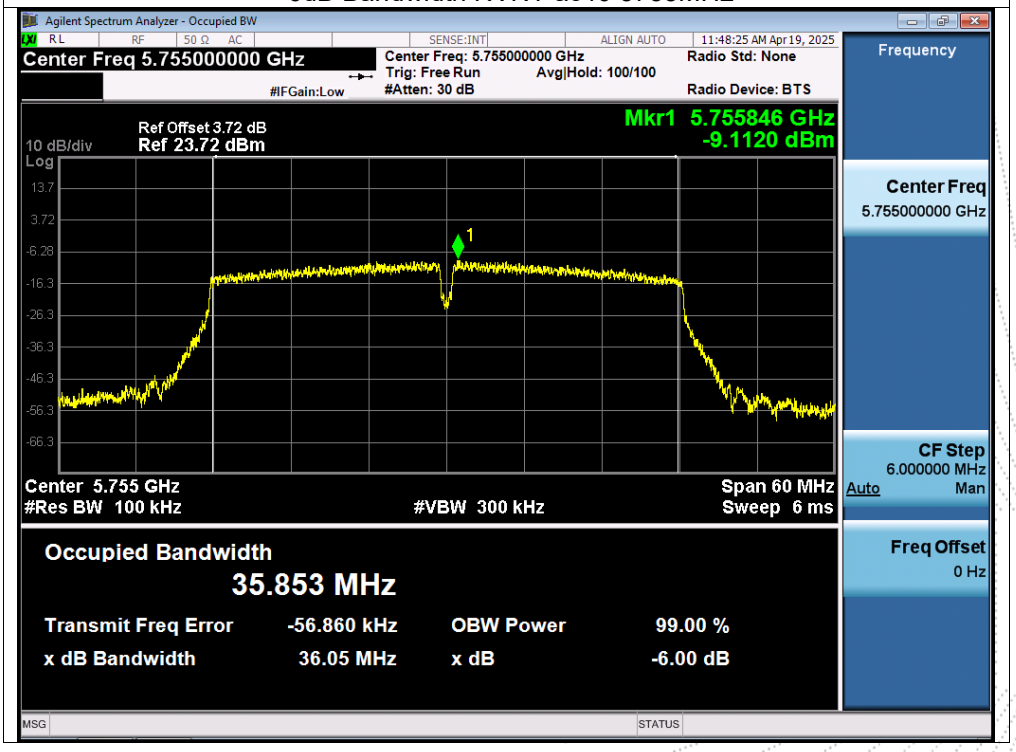
-6dB Bandwidth NVNT ac20 5785MHz



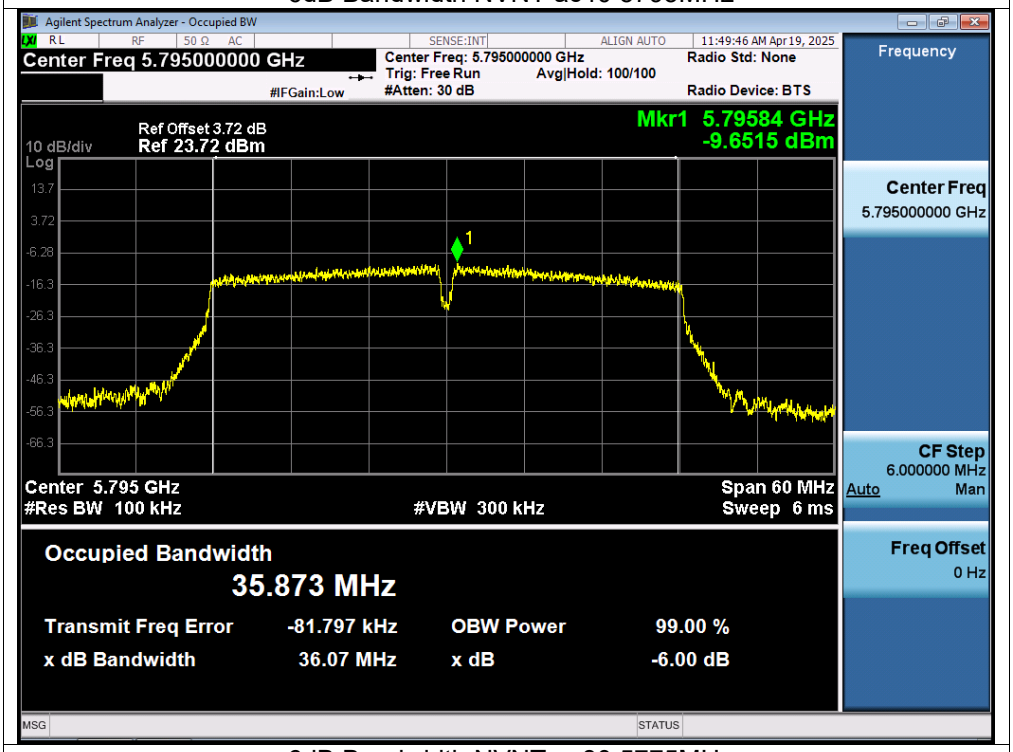
-6dB Bandwidth NVNT ac20 5825MHz



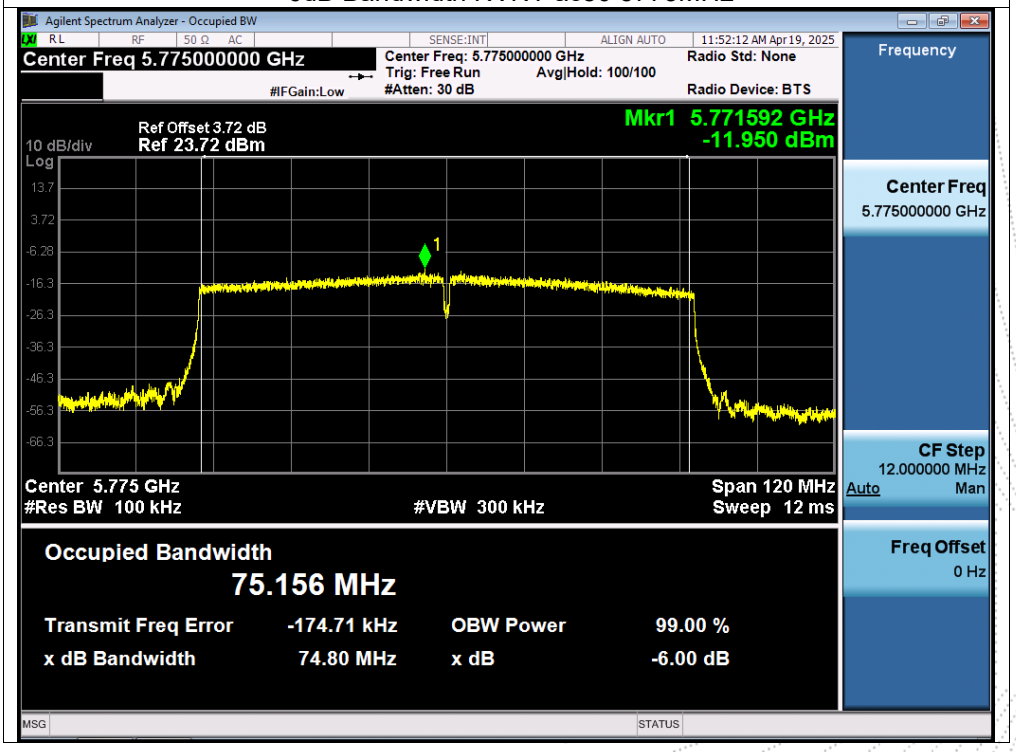
-6dB Bandwidth NVNT ac40 5755MHz



-6dB Bandwidth NVNT ac40 5795MHz

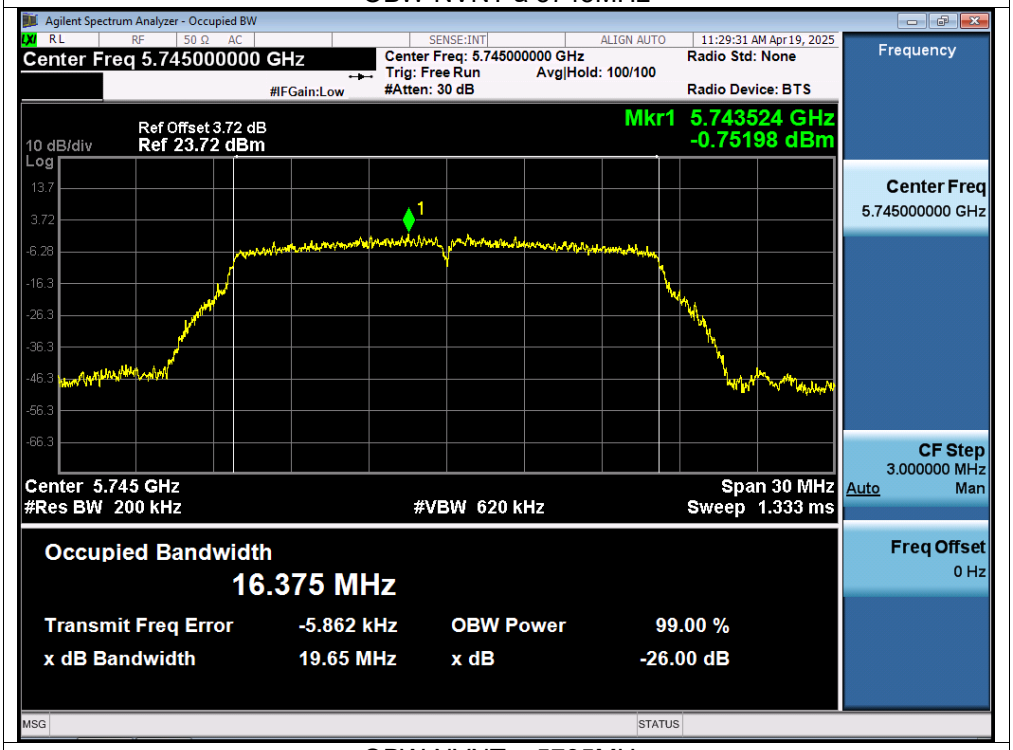


-6dB Bandwidth NVNT ac80 5775MHz

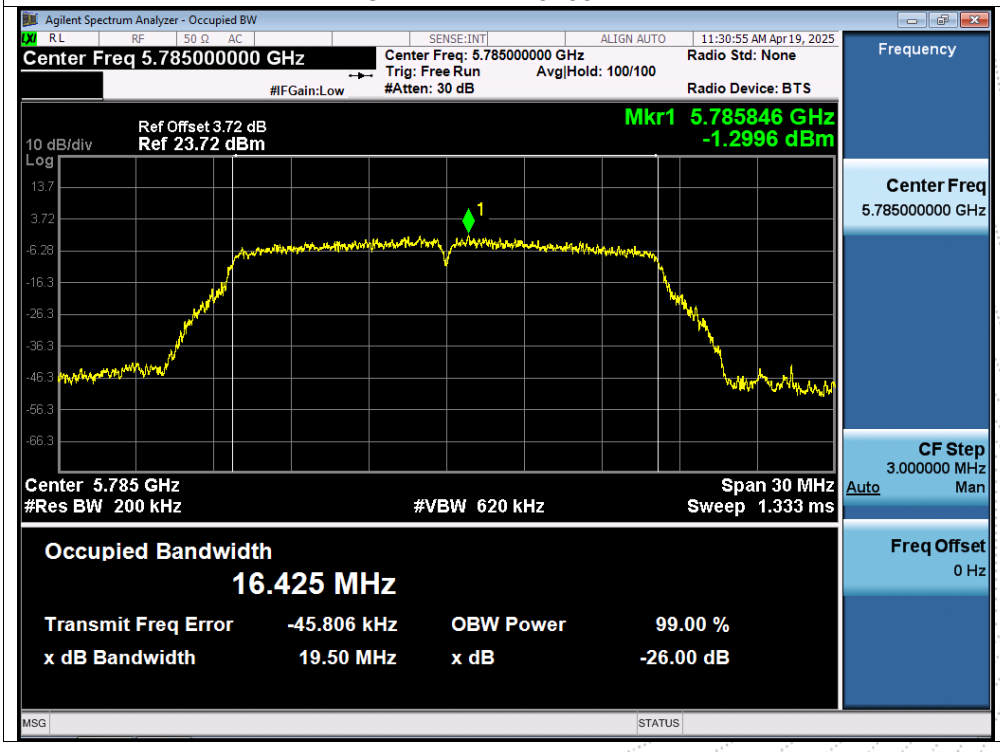


Test Graphs

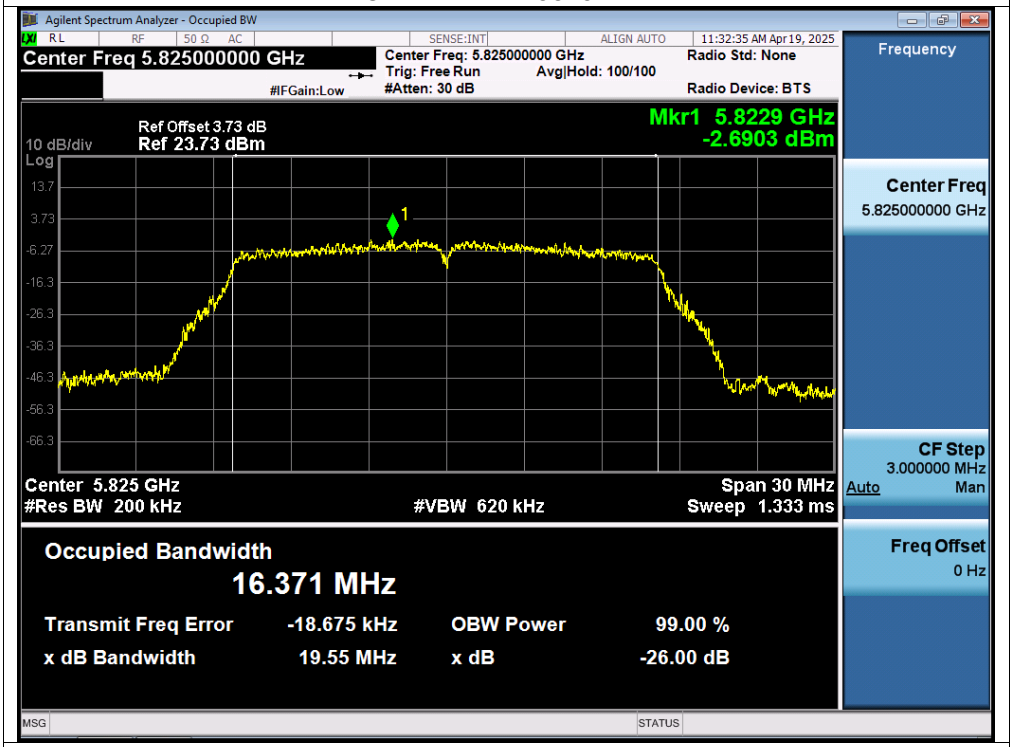
OBW NVNT a 5745MHz



OBW NVNT a 5785MHz



OBW NVNT a 5825MHz



OBW NVNT n20 5745MHz