TEST REPORT

Report No.:	BCTC2310484876-4E
Applicant:	Shenzhen Huikun Technology Co., Ltd.
Product Name:	Tablet PC
Model/Type reference:	P1200
Tested Date:	2023-10-27 to 2023-11-06
Issued Date:	2023-11-06

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2A9MG-P1200

Product Name:	Tablet PC
Trademark:	C idea
Model/Type reference:	P1200 P2050, P2150, P2250, P2350, P2450, P2550, P2650, P2750, P2850, P2950
Prepared For:	Shenzhen Huikun Technology Co., Ltd.
Address:	Floor 3-4, Building 3, Saitu Digital Industrial Factory, 137 Bulan Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Huikun Technology Co., Ltd.
Address:	Floor 3-4, Building 3, Saitu Digital Industrial Factory, 137 Bulan Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China
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:	2023-10-27
Sample tested Date:	2023-10-27 to 2023-11-06
Issue Date:	2023-11-06
Report No.:	BCTC2310484876-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:

Lei Chen

Lei Chen/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.

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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2310484876-4E	2023-11-06	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：The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

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

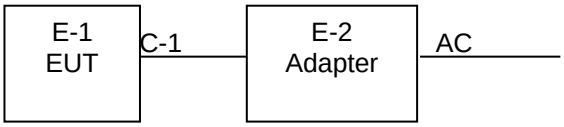
4.1 Product Information

Model/Type Ref.:	P1200 P2050, P2150, P2250, P2350, P2450, P2550, P2650, P2750, P2850, P2950
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
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:	FPC antenna
Antenna Gain:	5.1G: 1.38dBi 5.8G: 1.98dBi
Ratings:	DC 5V from adapter, DC 3.8V from battery
Adapter:	Model: WKY-0502000DM Input: AC 100-240V 50/60Hz 0.3A Output: DC 5V 2A

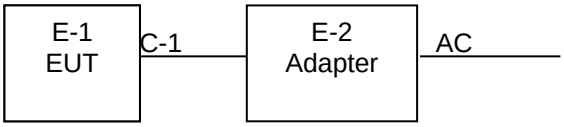
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Tablet PC	C idea	P1200	More models Ref. the 4.1	EUT
E-2	Adapter	N/A	WKY-0502000DM	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.5M	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	Link Mode

Conducted Emission	
Final Test Mode	**Description**
Mode 4	Link Mode

For Radiated Emission	
Final Test 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

Note:
(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(2) We're testing antenna A data.

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

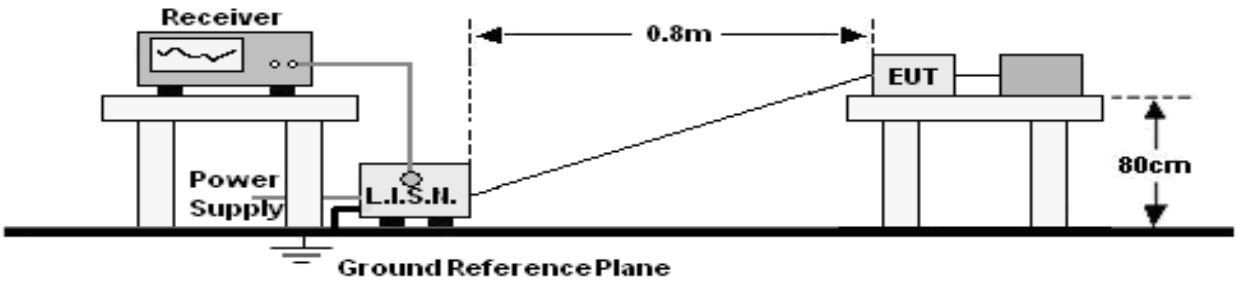
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept 21, 2024

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RFCB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber02)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	SKET	966 Room	966	Nov. 02. 2021	Nov. 01.2024
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRI7	100010	Nov. 08. 2022	Nov. 07.2023
Amplifier	SKET	LNPA-30M01G-30	SK2021082004	Nov. 08. 2022	Nov. 07.2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	Mar. 06, 2022	Mar. 05, 2024
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
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

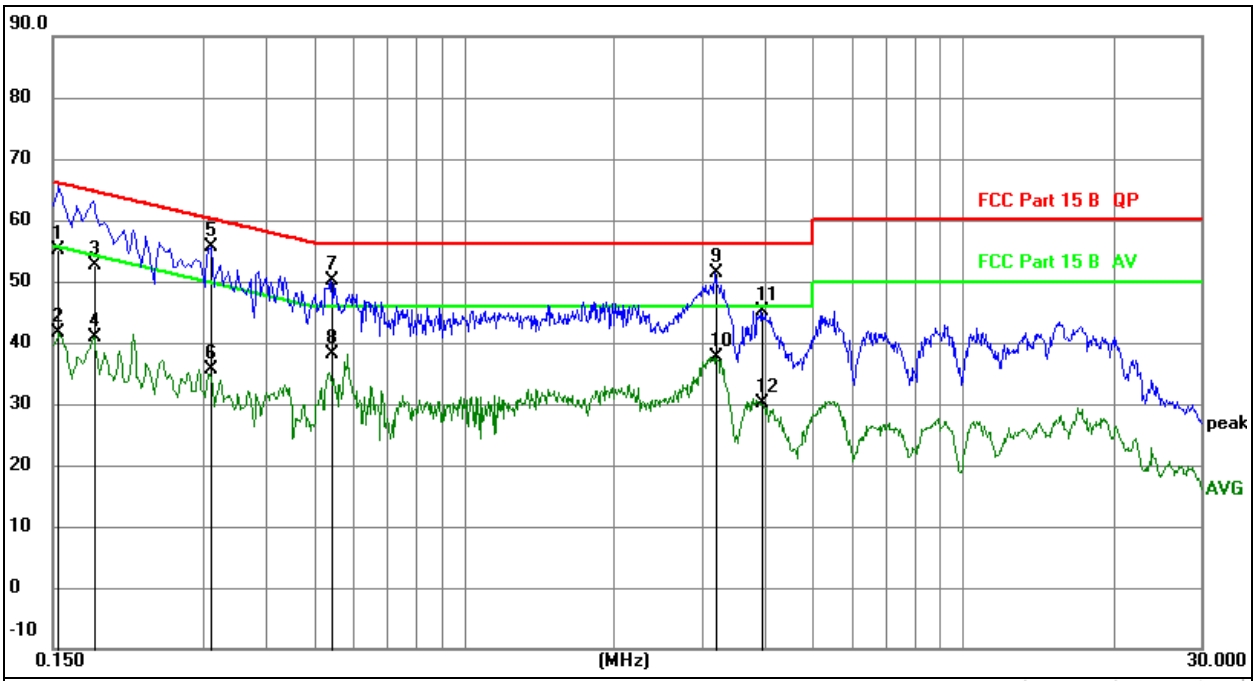
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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

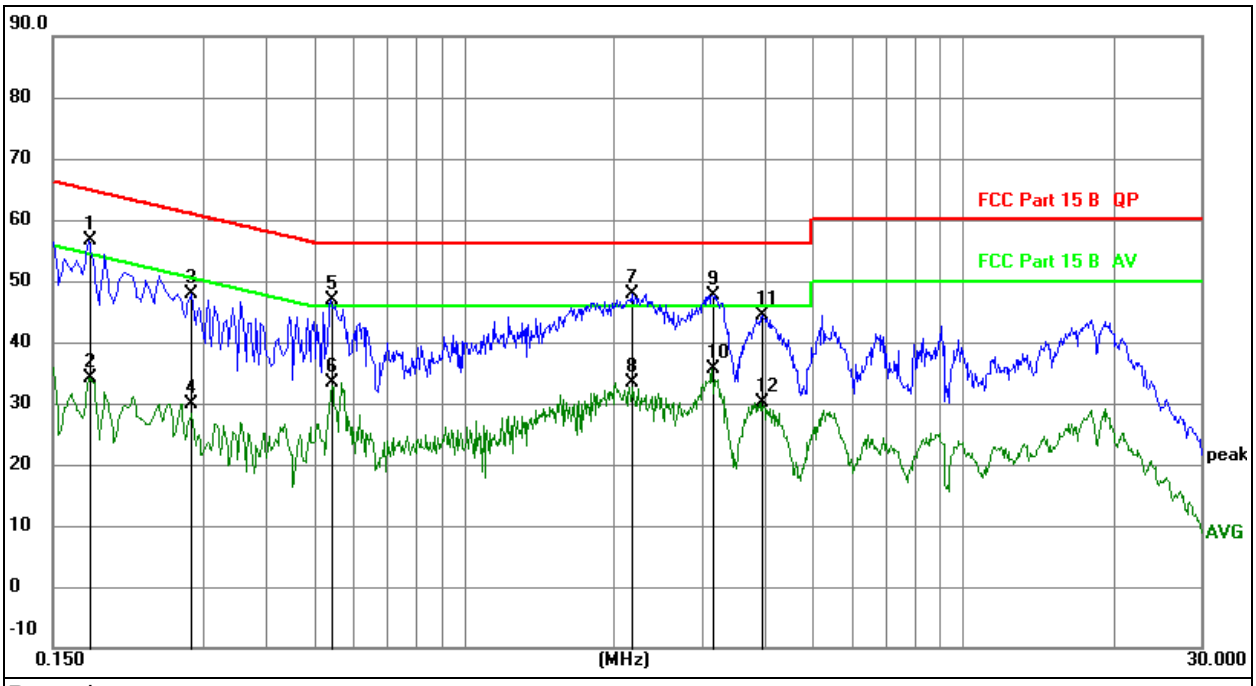
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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		0.1539	35.37	19.74	55.11	65.79	-10.68	QP
2		0.1539	21.79	19.74	41.53	55.79	-14.26	AVG
3		0.1810	32.90	19.79	52.69	64.44	-11.75	QP
4		0.1810	21.01	19.79	40.80	54.44	-13.64	AVG
5	*	0.3116	35.68	19.83	55.51	59.93	-4.42	QP
6		0.3116	15.70	19.83	35.53	49.93	-14.40	AVG
7		0.5407	30.21	19.84	50.05	56.00	-5.95	QP
8		0.5407	18.21	19.84	38.05	46.00	-7.95	AVG
9		3.1900	30.91	20.37	51.28	56.00	-4.72	QP
10		3.1900	17.20	20.37	37.57	46.00	-8.43	AVG
11		3.9430	24.48	20.64	45.12	56.00	-10.88	QP
12		3.9430	9.58	20.64	30.22	46.00	-15.78	AVG

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



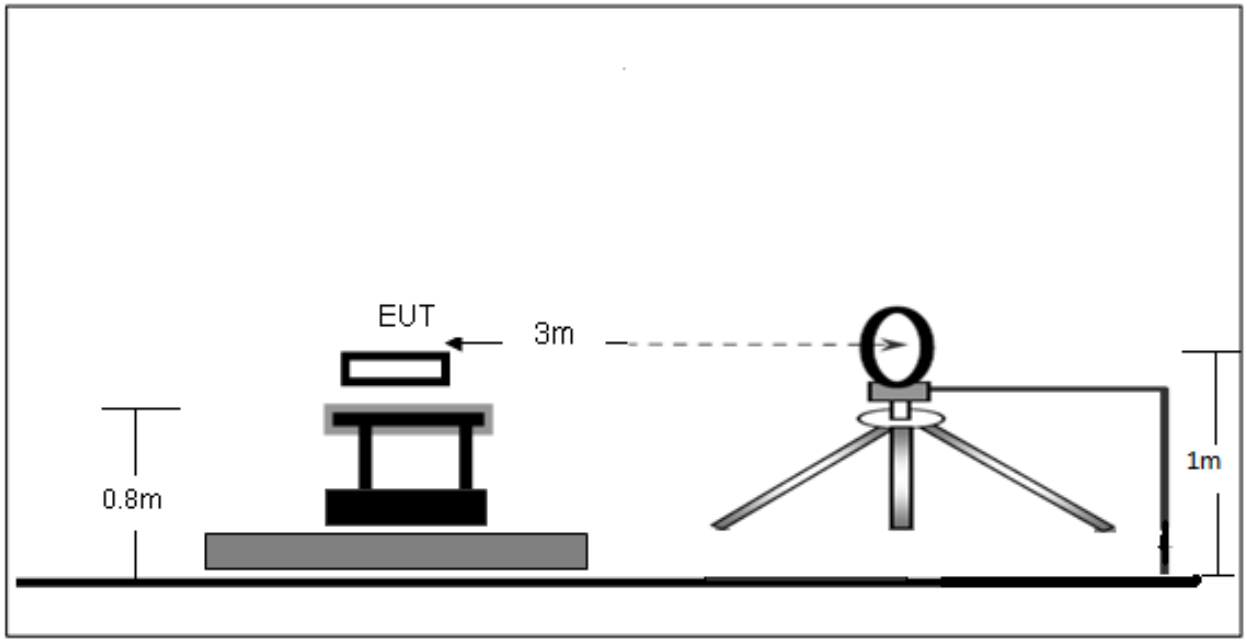
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1768	36.78	19.78	56.56	64.63	-8.07	QP
2		0.1768	14.43	19.78	34.21	54.63	-20.42	AVG
3		0.2847	28.02	19.83	47.85	60.68	-12.83	QP
4		0.2847	10.08	19.83	29.91	50.68	-20.77	AVG
5		0.5407	27.06	19.84	46.90	56.00	-9.10	QP
6		0.5407	13.65	19.84	33.49	46.00	-12.51	AVG
7		2.1668	27.79	20.01	47.80	56.00	-8.20	QP
8		2.1668	13.26	20.01	33.27	46.00	-12.73	AVG
9		3.1397	27.28	20.35	47.63	56.00	-8.37	QP
10		3.1397	15.16	20.35	35.51	46.00	-10.49	AVG
11		3.9639	23.64	20.65	44.29	56.00	-11.71	QP
12		3.9639	9.47	20.65	30.12	46.00	-15.88	AVG

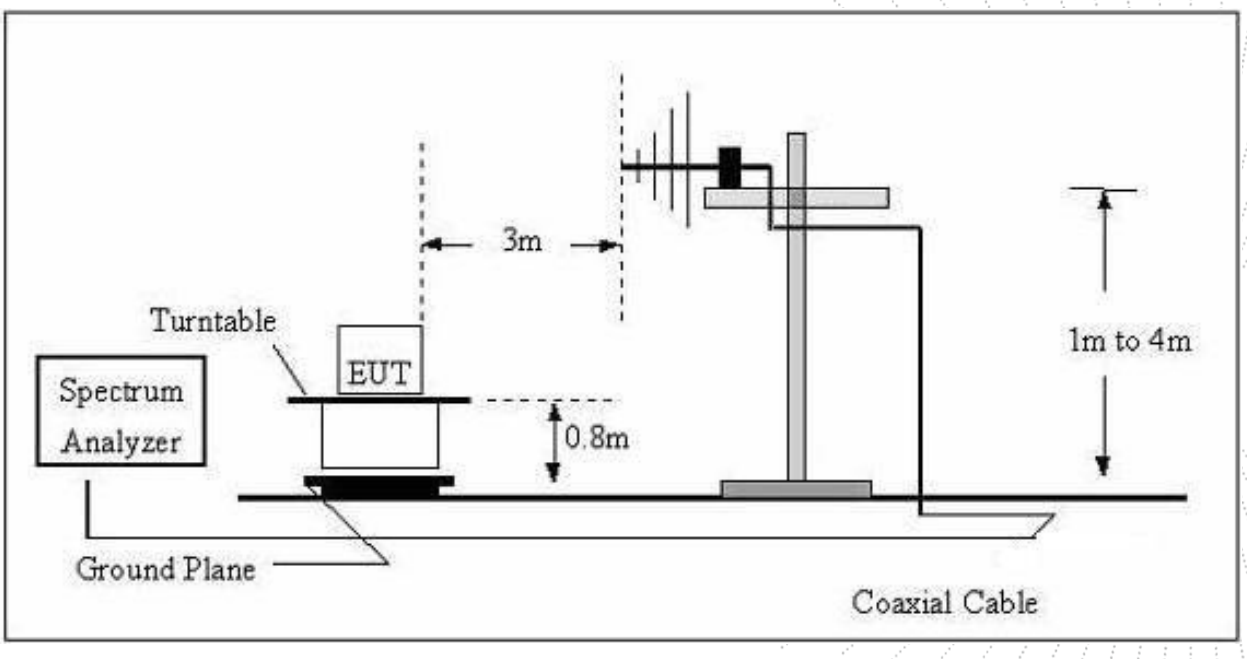
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

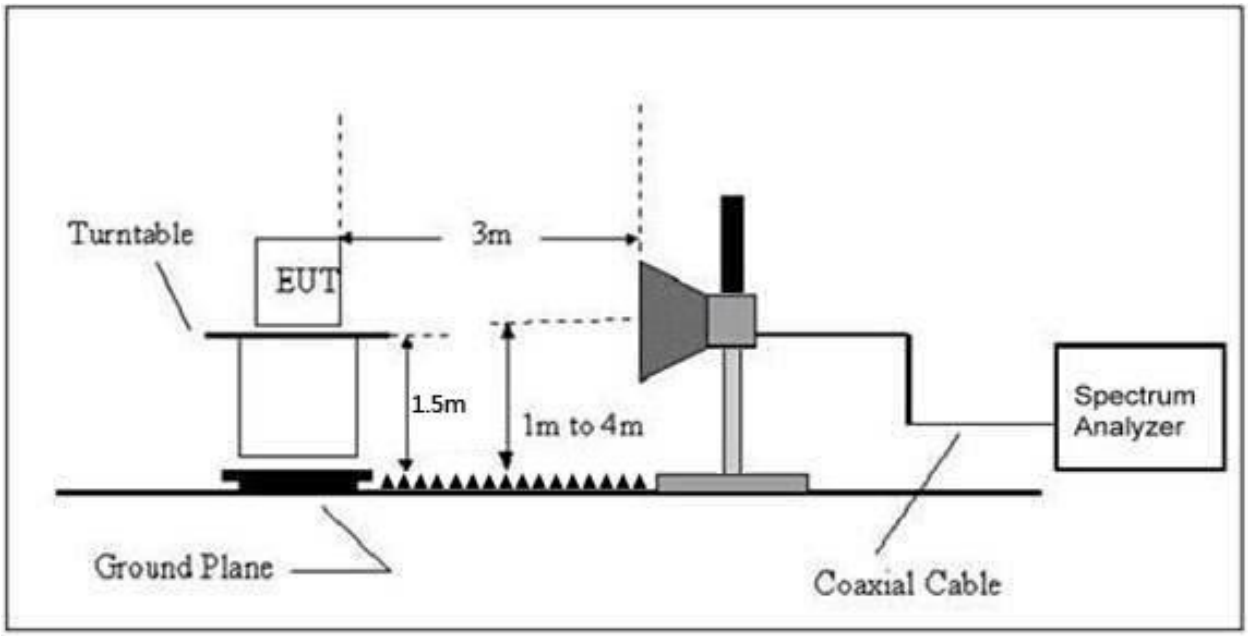
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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

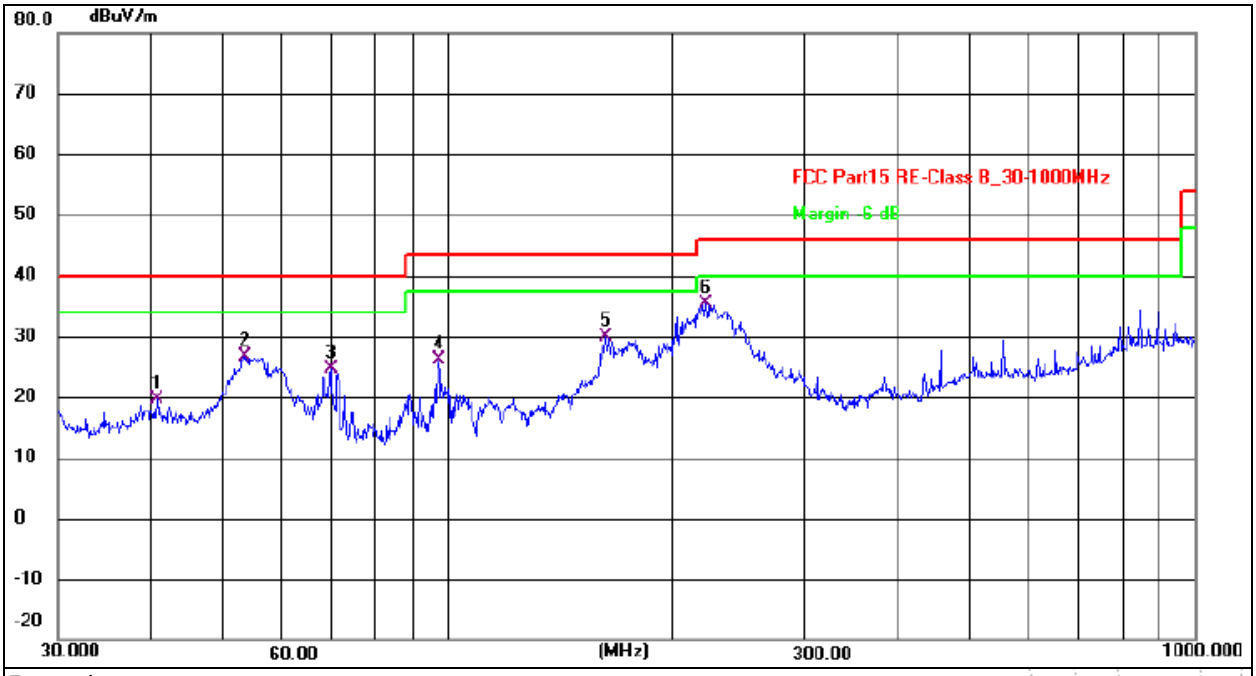
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization:	--

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

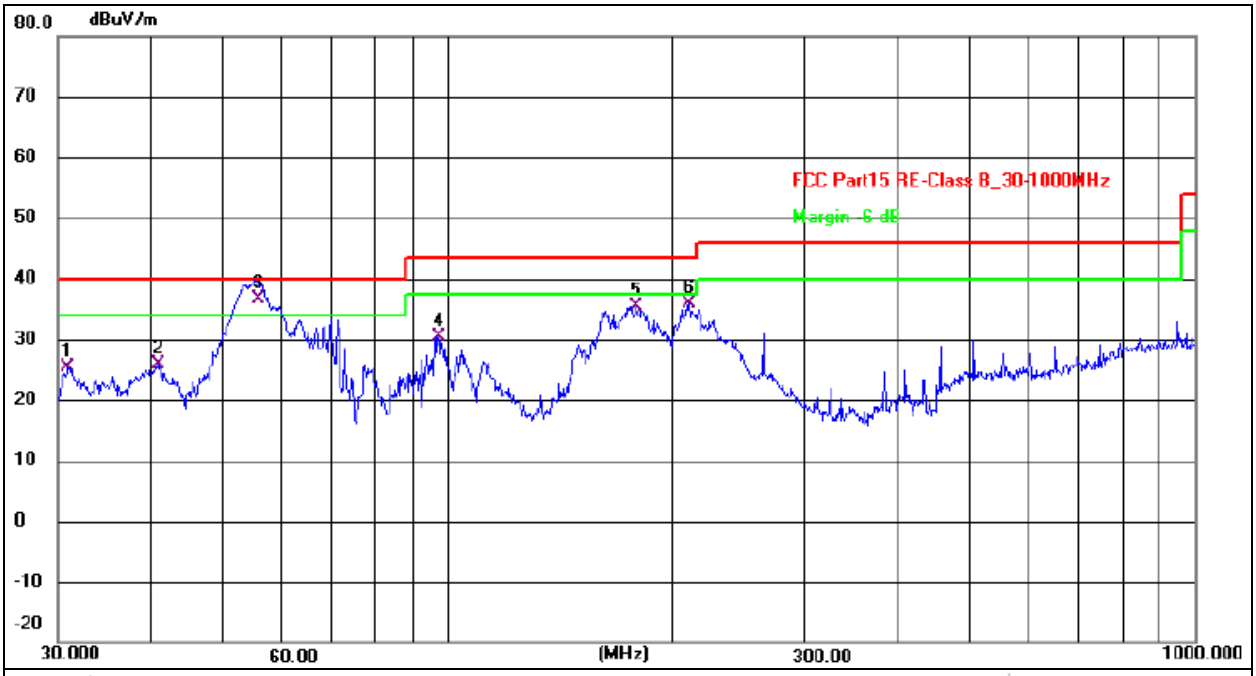
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.7016	29.99	-10.27	19.72	40.00	-20.28	QP
2	53.3179	37.68	-11.02	26.66	40.00	-13.34	QP
3	69.6005	37.61	-12.98	24.63	40.00	-15.37	QP
4	97.1148	41.62	-15.58	26.04	43.50	-17.46	QP
5	162.6106	40.47	-10.58	29.89	43.50	-13.61	QP
6 *	221.3921	47.98	-12.70	35.28	46.00	-10.72	QP

Temperature:	26 ℃	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.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.9618	37.16	-11.86	25.30	40.00	-14.70	QP
2	40.9880	36.10	-10.29	25.81	40.00	-14.19	QP
3 *	55.7724	47.82	-11.27	36.55	40.00	-3.45	QP
4	97.1148	46.01	-15.58	30.43	43.50	-13.07	QP
5	178.7584	47.33	-11.91	35.42	43.50	-8.08	QP
6	210.0481	49.03	-13.15	35.88	43.50	-7.62	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a

Polar (H/V)	Fre-quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.105	73.62	-20.73	52.89	68.2	-15.31	PK
Vertical	4434.105	59.49	-20.73	38.76	54	-15.24	AV
Vertical	10360.043	63.12	-9.36	53.76	68.2	-14.44	PK
Vertical	10360.043	49.37	-9.36	40.01	54	-13.99	AV
Vertical	15540.064	61.36	-7.84	53.52	74	-20.48	PK
Vertical	15540.064	49.15	-7.84	41.31	54	-12.69	AV
Horizontal	4434.023	71.98	-20.73	51.25	68.2	-16.95	PK
Horizontal	4434.023	59.73	-20.73	39.00	54	-15.00	AV
Horizontal	10360.171	64.43	-9.36	55.07	68.2	-13.13	PK
Horizontal	10360.171	49.40	-9.36	40.04	54	-13.96	AV
Horizontal	15540.012	61.70	-7.84	53.86	74	-20.14	PK
Horizontal	15540.012	49.78	-7.84	41.94	54	-12.06	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.110	71.58	-20.42	51.17	74	-22.83	PK
Vertical	4592.110	59.14	-20.42	38.72	54	-15.28	AV
Vertical	10400.089	64.22	-9.30	54.92	68.2	-13.28	PK
Vertical	10400.089	49.03	-9.30	39.73	54	-14.27	AV
Vertical	15600.003	61.79	-7.82	53.97	74	-20.03	PK
Vertical	15600.003	49.75	-7.82	41.93	54	-12.07	AV
Horizontal	4592.058	70.09	-20.42	49.68	74	-24.32	PK
Horizontal	4592.058	59.45	-20.42	39.03	54	-14.97	AV
Horizontal	10400.048	62.84	-9.30	53.54	68.2	-14.66	PK
Horizontal	10400.048	49.06	-9.30	39.76	54	-14.24	AV
Horizontal	15600.037	60.82	-7.82	53.00	74	-21.00	PK
Horizontal	15600.037	49.17	-7.82	41.35	54	-12.65	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.168	74.79	-20.12	54.67	74	-19.33	PK
Vertical	4739.168	59.96	-20.12	39.84	54	-14.16	AV
Vertical	10480.078	60.88	-9.18	51.70	68.2	-16.50	PK
Vertical	10480.078	49.86	-9.18	40.68	54	-13.32	AV
Vertical	15720.148	64.28	-7.78	56.50	74	-17.50	PK
Vertical	15720.148	49.48	-7.78	41.70	54	-12.30	AV
Horizontal	4739.072	70.85	-20.12	50.73	74	-23.27	PK
Horizontal	4739.072	59.16	-20.12	39.03	54	-14.97	AV
Horizontal	10480.056	60.89	-9.18	51.71	68.2	-16.49	PK
Horizontal	10480.056	49.82	-9.18	40.64	54	-13.36	AV
Horizontal	15720.143	63.83	-7.78	56.05	74	-17.95	PK
Horizontal	15720.143	49.88	-7.78	42.10	54	-11.90	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 (H/V)	Fre-quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.123	74.61	-20.73	53.88	68.2	-14.32	PK
Vertical	4434.123	59.36	-20.73	38.63	54	-15.37	AV
Vertical	10360.014	63.96	-9.36	54.60	68.2	-13.60	PK
Vertical	10360.014	49.44	-9.36	40.08	54	-13.92	AV
Vertical	15540.192	61.84	-7.84	54.00	74	-20.00	PK
Vertical	15540.192	49.33	-7.84	41.49	54	-12.51	AV
Horizontal	4434.058	74.46	-20.73	53.73	68.2	-14.47	PK
Horizontal	4434.058	59.80	-20.73	39.06	54	-14.94	AV
Horizontal	10360.107	64.08	-9.36	54.72	68.2	-13.48	PK
Horizontal	10360.107	49.73	-9.36	40.37	54	-13.63	AV
Horizontal	15540.012	61.36	-7.84	53.52	74	-20.48	PK
Horizontal	15540.012	49.27	-7.84	41.43	54	-12.57	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.071	71.42	-20.42	51.00	74	-23.00	PK
Vertical	4592.071	59.56	-20.42	39.14	54	-14.86	AV
Vertical	10400.048	61.49	-9.30	52.19	68.2	-16.01	PK
Vertical	10400.048	49.48	-9.30	40.18	54	-13.82	AV
Vertical	15600.136	60.38	-7.82	52.56	74	-21.44	PK
Vertical	15600.136	49.20	-7.82	41.38	54	-12.62	AV
Horizontal	4592.011	73.59	-20.42	53.18	74	-20.82	PK
Horizontal	4592.011	59.00	-20.42	38.59	54	-15.41	AV
Horizontal	10400.110	60.04	-9.30	50.74	68.2	-17.46	PK
Horizontal	10400.110	49.08	-9.30	39.78	54	-14.22	AV
Horizontal	15600.037	64.29	-7.82	56.47	74	-17.53	PK
Horizontal	15600.037	49.69	-7.82	41.87	54	-12.13	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.123	72.99	-20.12	52.87	74	-21.13	PK
Vertical	4739.123	59.07	-20.12	38.95	54	-15.05	AV
Vertical	10480.190	62.12	-9.18	52.94	68.2	-15.26	PK
Vertical	10480.190	49.64	-9.18	40.46	54	-13.54	AV
Vertical	15720.175	63.33	-7.78	55.55	74	-18.45	PK
Vertical	15720.175	49.27	-7.78	41.49	54	-12.51	AV
Horizontal	4739.150	72.99	-20.12	52.87	74	-21.13	PK
Horizontal	4739.150	59.12	-20.12	39.00	54	-15.00	AV
Horizontal	10480.013	63.06	-9.18	53.88	68.2	-14.32	PK
Horizontal	10480.013	49.42	-9.18	40.24	54	-13.76	AV
Horizontal	15720.045	63.83	-7.78	56.05	74	-17.95	PK
Horizontal	15720.045	49.30	-7.78	41.52	54	-12.48	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	Fre-quency	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	4434.178	73.50	-20.73	52.77	68.2	-15.43	PK
Vertical	4434.178	59.48	-20.73	38.75	54	-15.25	AV
Vertical	10380.021	60.16	-9.33	50.83	68.2	-17.37	PK
Vertical	10380.021	49.67	-9.33	40.34	54	-13.66	AV
Vertical	15570.116	62.15	-7.83	54.32	74	-19.68	PK
Vertical	15570.116	49.69	-7.83	41.86	54	-12.14	AV
Horizontal	4434.036	70.60	-20.73	49.86	74	-24.14	PK
Horizontal	4434.036	59.08	-20.73	38.35	54	-15.65	AV
Horizontal	10380.156	64.43	-9.33	55.10	68.2	-13.10	PK
Horizontal	10380.156	49.77	-9.33	40.44	54	-13.56	AV
Horizontal	15570.184	63.59	-7.83	55.76	74	-18.24	PK
Horizontal	15570.184	49.60	-7.83	41.77	54	-12.23	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.110	72.80	-20.12	52.68	68.2	-15.52	PK
Vertical	4739.110	59.45	-20.12	39.32	54	-14.68	AV
Vertical	10460.115	62.65	-9.21	53.44	68.2	-14.76	PK
Vertical	10460.115	49.15	-9.21	39.94	54	-14.06	AV
Vertical	15690.170	61.48	-7.79	53.69	74	-20.31	PK
Vertical	15690.170	49.56	-7.79	41.77	54	-12.23	AV
Horizontal	4739.026	70.81	-20.12	50.68	68.2	-17.52	PK
Horizontal	4739.026	59.61	-20.12	39.49	54	-14.51	AV
Horizontal	10460.036	63.92	-9.21	54.71	68.2	-13.49	PK
Horizontal	10460.036	49.23	-9.21	40.02	54	-13.98	AV
Horizontal	15690.089	62.33	-7.79	54.54	74	-19.46	PK
Horizontal	15690.089	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	Fre-quency	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	4434.084	74.64	-20.73	53.91	68.2	-14.29	PK
Vertical	4434.084	59.11	-20.73	38.38	54	-15.62	AV
Vertical	10360.124	61.76	-9.36	52.40	68.2	-15.80	PK
Vertical	10360.124	49.66	-9.36	40.30	54	-13.70	AV
Vertical	15540.034	63.40	-7.84	55.56	74	-18.44	PK
Vertical	15540.034	49.03	-7.84	41.19	54	-12.81	AV
Horizontal	4434.092	73.78	-20.73	53.04	68.2	-15.16	PK
Horizontal	4434.092	59.22	-20.73	38.49	54	-15.51	AV
Horizontal	10360.067	62.96	-9.36	53.60	68.2	-14.60	PK
Horizontal	10360.067	49.30	-9.36	39.94	54	-14.06	AV
Horizontal	15540.041	61.27	-7.84	53.43	74	-20.57	PK
Horizontal	15540.041	49.16	-7.84	41.32	54	-12.68	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.041	71.87	-20.42	51.45	74	-22.55	PK
Vertical	4592.041	59.62	-20.42	39.21	54	-14.79	AV
Vertical	10400.040	63.13	-9.30	53.83	68.2	-14.37	PK
Vertical	10400.040	49.82	-9.30	40.52	54	-13.48	AV
Vertical	15600.074	64.84	-7.82	57.02	74	-16.98	PK
Vertical	15600.074	49.09	-7.82	41.27	54	-12.73	AV
Horizontal	4592.195	72.34	-20.42	51.92	74	-22.08	PK
Horizontal	4592.195	59.95	-20.42	39.54	54	-14.46	AV
Horizontal	10400.019	60.00	-9.30	50.70	68.2	-17.50	PK
Horizontal	10400.019	49.64	-9.30	40.34	54	-13.66	AV
Horizontal	15600.144	60.77	-7.82	52.95	74	-21.05	PK
Horizontal	15600.144	49.86	-7.82	42.04	54	-11.96	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.101	73.55	-20.12	53.43	74	-20.57	PK
Vertical	4739.101	59.70	-20.12	39.58	54	-14.42	AV
Vertical	10480.051	60.71	-9.18	51.53	68.2	-16.67	PK
Vertical	10480.051	49.38	-9.18	40.20	54	-13.80	AV
Vertical	15720.184	63.15	-7.78	55.37	74	-18.63	PK
Vertical	15720.184	49.97	-7.78	42.19	54	-11.81	AV
Horizontal	4739.133	73.68	-20.12	53.56	74	-20.44	PK
Horizontal	4739.133	59.85	-20.12	39.73	54	-14.27	AV
Horizontal	10480.101	64.52	-9.18	55.34	68.2	-12.86	PK
Horizontal	10480.101	49.81	-9.18	40.63	54	-13.37	AV
Horizontal	15720.121	61.04	-7.78	53.26	74	-20.74	PK
Horizontal	15720.121	49.95	-7.78	42.17	54	-11.83	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	Fre-quency	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	4434.060	72.39	-20.73	51.65	68.2	-16.55	PK
Vertical	4434.060	59.60	-20.73	38.86	54	-15.14	AV
Vertical	10380.012	62.31	-9.33	52.98	68.2	-15.22	PK
Vertical	10380.012	49.61	-9.33	40.28	54	-13.72	AV
Vertical	15570.119	61.05	-7.83	53.22	74	-20.78	PK
Vertical	15570.119	49.87	-7.83	42.04	54	-11.96	AV
Horizontal	4434.135	74.86	-20.73	54.13	74	-19.87	PK
Horizontal	4434.135	59.49	-20.73	38.75	54	-15.25	AV
Horizontal	10380.036	64.95	-9.33	55.62	68.2	-12.58	PK
Horizontal	10380.036	49.96	-9.33	40.63	54	-13.37	AV
Horizontal	15570.030	61.71	-7.83	53.88	74	-20.12	PK
Horizontal	15570.030	49.07	-7.83	41.24	54	-12.76	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.031	74.27	-20.12	54.15	68.2	-14.05	PK
Vertical	4739.031	59.21	-20.12	39.08	54	-14.92	AV
Vertical	10460.135	64.84	-9.21	55.63	68.2	-12.57	PK
Vertical	10460.135	49.55	-9.21	40.34	54	-13.66	AV
Vertical	15690.007	60.41	-7.79	52.62	74	-21.38	PK
Vertical	15690.007	49.62	-7.79	41.83	54	-12.17	AV
Horizontal	4739.017	74.91	-20.12	54.78	68.2	-13.42	PK
Horizontal	4739.017	59.42	-20.12	39.30	54	-14.70	AV
Horizontal	10460.009	62.13	-9.21	52.92	68.2	-15.28	PK
Horizontal	10460.009	49.70	-9.21	40.49	54	-13.51	AV
Horizontal	15690.027	64.56	-7.79	56.77	74	-17.23	PK
Horizontal	15690.027	49.93	-7.79	42.14	54	-11.86	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-HT80

Polar	Fre-quency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.072	70.47	-20.73	49.74	68.2	-18.46	PK
Vertical	4434.072	59.32	-20.73	38.59	54	-15.41	AV
Vertical	10420.013	62.01	-9.27	52.74	68.2	-15.46	PK
Vertical	10420.013	49.41	-9.27	40.14	54	-13.86	AV
Vertical	15630.152	64.94	-7.81	57.13	74	-16.87	PK
Vertical	15630.152	49.14	-7.81	41.33	54	-12.67	AV
Horizontal	4434.183	73.74	-20.73	53.01	68.2	-15.19	PK
Horizontal	4434.183	59.59	-20.73	38.86	54	-15.14	AV
Horizontal	10420.036	41.46	9.27	50.73	68.2	-17.47	PK
Horizontal	10420.036	29.03	9.27	38.30	54	-15.70	AV
Horizontal	15630.146	64.15	-7.81	56.34	74	-17.66	PK
Horizontal	15630.146	49.78	-7.81	41.97	54	-12.03	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	Fre-quency	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	4679.044	70.83	-20.24	50.59	74	-23.41	PK
Vertical	4679.044	59.39	-20.24	39.15	54	-14.85	AV
Vertical	11490.049	62.58	-8.79	53.79	68.2	-14.41	PK
Vertical	11490.049	49.17	-8.79	40.38	54	-13.62	AV
Vertical	17235.060	59.43	-3.18	56.25	68.2	-11.95	PK
Vertical	17235.060	44.69	-3.18	41.51	54	-12.49	AV
Horizontal	4679.036	72.75	-20.73	52.02	74	-21.98	PK
Horizontal	4679.036	59.63	-20.73	38.90	54	-15.10	AV
Horizontal	11490.134	63.08	-8.79	54.29	68.2	-13.91	PK
Horizontal	11490.134	49.49	-8.79	40.70	54	-13.30	AV
Horizontal	17235.133	56.64	-3.18	53.46	68.2	-14.74	PK
Horizontal	17235.133	44.40	-3.18	41.22	54	-12.78	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.084	73.63	-20.42	53.21	74	-20.79	PK
Vertical	4592.084	59.76	-20.42	39.34	54	-14.66	AV
Vertical	11570.182	60.15	-8.86	51.29	68.2	-16.91	PK
Vertical	11570.182	49.24	-8.86	40.38	54	-13.62	AV
Vertical	17355.013	59.75	-2.52	57.23	68.2	-10.97	PK
Vertical	17355.013	44.50	-2.52	41.98	54	-12.02	AV
Horizontal	4592.134	72.19	-20.42	51.77	74	-22.23	PK
Horizontal	4592.134	59.03	-20.42	38.61	54	-15.39	AV
Horizontal	11570.004	63.27	-8.86	54.41	68.2	-13.79	PK
Horizontal	11570.004	49.90	-8.86	41.04	54	-12.96	AV
Horizontal	17355.045	57.90	-2.52	55.38	68.2	-12.82	PK
Horizontal	17355.045	44.62	-2.52	42.10	54	-11.90	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.187	70.37	-18.93	51.44	68.2	-16.76	PK
Vertical	6039.187	59.46	-18.93	40.53	54	-13.47	AV
Vertical	11650.192	64.14	-8.92	55.22	74	-18.78	PK
Vertical	11650.192	49.01	-8.92	40.09	54	-13.91	AV
Vertical	17475.129	57.61	-1.86	55.75	68.2	-12.45	PK
Vertical	17475.129	44.69	-1.86	42.83	54	-11.17	AV
Horizontal	6039.070	73.55	-18.93	54.62	68.2	-13.58	PK
Horizontal	6039.070	59.29	-18.93	40.36	54	-13.64	AV
Horizontal	11650.065	60.55	-8.92	51.63	74	-22.37	PK
Horizontal	11650.065	49.03	-8.92	40.11	54	-13.89	AV
Horizontal	17475.040	56.92	-1.86	55.06	68.2	-13.14	PK
Horizontal	17475.040	44.14	-1.86	42.28	54	-11.72	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	Fre-quency	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	4679.168	73.05	-20.24	52.81	74	-21.19	PK
Vertical	4679.168	59.44	-20.24	39.20	54	-14.80	AV
Vertical	11490.132	60.08	-8.79	51.29	68.2	-16.91	PK
Vertical	11490.132	49.21	-8.79	40.42	54	-13.58	AV
Vertical	17235.176	57.27	-3.18	54.09	68.2	-14.11	PK
Vertical	17235.176	44.63	-3.18	41.45	54	-12.55	AV
Horizontal	4679.123	74.41	-20.24	54.17	74	-19.83	PK
Horizontal	4679.123	59.08	-20.24	38.84	54	-15.16	AV
Horizontal	11490.163	63.59	-8.79	54.80	68.2	-13.40	PK
Horizontal	11490.163	49.56	-8.79	40.77	54	-13.23	AV
Horizontal	17235.064	58.37	-3.18	55.19	68.2	-13.01	PK
Horizontal	17235.064	44.25	-3.18	41.07	54	-12.93	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.019	70.23	-20.42	49.81	74	-24.19	PK
Vertical	4592.019	59.19	-20.42	38.77	54	-15.23	AV
Vertical	11570.029	64.44	-8.86	55.58	68.2	-12.62	PK
Vertical	11570.029	49.22	-8.86	40.36	54	-13.64	AV
Vertical	17355.046	57.25	-2.52	54.73	68.2	-13.47	PK
Vertical	17355.046	44.40	-2.52	41.88	54	-12.12	AV
Horizontal	4592.046	72.69	-20.42	52.28	74	-21.72	PK
Horizontal	4592.046	59.10	-20.42	38.68	54	-15.32	AV
Horizontal	11570.044	62.64	-8.86	53.78	68.2	-14.42	PK
Horizontal	11570.044	49.70	-8.86	40.84	54	-13.16	AV
Horizontal	17355.080	56.24	-2.52	53.72	68.2	-14.48	PK
Horizontal	17355.080	44.98	-2.52	42.46	54	-11.54	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.008	70.57	-18.93	51.63	68.2	-16.57	PK
Vertical	6039.008	59.69	-18.93	40.76	54	-13.24	AV
Vertical	11650.076	64.69	-8.92	55.77	74	-18.23	PK
Vertical	11650.076	49.24	-8.92	40.32	54	-13.68	AV
Vertical	17475.175	56.44	-1.86	54.58	68.2	-13.62	PK
Vertical	17475.175	44.56	-1.86	42.70	54	-11.30	AV
Horizontal	6039.093	72.66	-18.93	53.73	68.2	-14.47	PK
Horizontal	6039.093	59.76	-18.93	40.83	54	-13.17	AV
Horizontal	11650.136	63.28	-8.92	54.36	74	-19.64	PK
Horizontal	11650.136	49.32	-8.92	40.40	54	-13.60	AV
Horizontal	17475.147	56.47	-1.86	54.61	68.2	-13.59	PK
Horizontal	17475.147	44.83	-1.86	42.97	54	-11.03	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	Fre-quency	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	4679.044	74.70	-20.24	54.46	74	-19.54	PK
Vertical	4679.044	59.99	-20.24	39.75	54	-14.25	AV
Vertical	11510.113	63.05	-8.81	54.24	74	-19.76	PK
Vertical	11510.113	49.14	-8.81	40.33	54	-13.67	AV
Vertical	17265.022	58.77	-3.01	55.76	68.2	-12.44	PK
Vertical	17265.022	44.65	-3.01	41.64	54	-12.36	AV
Horizontal	4679.180	71.35	-20.24	51.11	74	-22.89	PK
Horizontal	4679.180	59.18	-20.24	38.94	54	-15.06	AV
Horizontal	11510.177	61.51	-8.81	52.70	74	-21.30	PK
Horizontal	11510.177	49.92	-8.81	41.11	54	-12.89	AV
Horizontal	17265.150	59.08	-3.01	56.07	68.2	-12.13	PK
Horizontal	17265.150	44.71	-3.01	41.70	54	-12.30	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.189	73.44	-18.93	54.50	68.2	-13.70	PK
Vertical	6039.189	59.16	-18.93	40.23	54	-13.77	AV
Vertical	11590.187	63.81	-8.87	54.94	74	-19.06	PK
Vertical	11590.187	49.32	-8.87	40.45	54	-13.55	AV
Vertical	17385.060	55.71	-2.35	53.36	68.2	-14.84	PK
Vertical	17385.060	44.53	-2.35	42.18	54	-11.82	AV
Horizontal	6039.016	73.90	-18.93	54.96	68.2	-13.24	PK
Horizontal	6039.016	59.14	-18.93	40.21	54	-13.79	AV
Horizontal	11590.017	62.57	-8.87	53.70	74	-20.30	PK
Horizontal	11590.017	49.50	-8.87	40.63	54	-13.37	AV
Horizontal	17385.164	57.81	-2.35	55.46	68.2	-12.74	PK
Horizontal	17385.164	44.90	-2.35	42.55	54	-11.45	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	Fre-quency	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	4679.166	73.00	-20.24	52.76	74	-21.24	PK
Vertical	4679.166	59.35	-20.24	39.11	54	-14.89	AV
Vertical	11490.106	63.82	-8.79	55.03	68.2	-13.17	PK
Vertical	11490.106	49.26	-8.79	40.47	54	-13.53	AV
Vertical	17235.011	55.96	-3.18	52.78	68.2	-15.42	PK
Vertical	17235.011	44.89	-3.18	41.71	54	-12.29	AV
Horizontal	4679.063	70.03	-20.24	49.79	74	-24.21	PK
Horizontal	4679.063	59.60	-20.24	39.35	54	-14.65	AV
Horizontal	11490.029	64.68	-8.79	55.89	68.2	-12.31	PK
Horizontal	11490.029	49.56	-8.79	40.77	54	-13.23	AV
Horizontal	17235.064	58.06	-3.18	54.88	68.2	-13.32	PK
Horizontal	17235.064	44.69	-3.18	41.51	54	-12.49	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.170	73.13	-20.42	52.71	74	-21.29	PK
Vertical	4592.170	59.34	-20.42	38.92	54	-15.08	AV
Vertical	11570.120	63.02	-8.86	54.16	68.2	-14.04	PK
Vertical	11570.120	49.18	-8.86	40.32	54	-13.68	AV
Vertical	17355.112	55.92	-2.52	53.40	68.2	-14.80	PK
Vertical	17355.112	44.00	-2.52	41.48	54	-12.52	AV
Horizontal	4592.069	74.96	-20.42	54.55	74	-19.45	PK
Horizontal	4592.069	59.52	-20.42	39.10	54	-14.90	AV
Horizontal	11570.061	64.15	-8.86	55.29	68.2	-12.91	PK
Horizontal	11570.061	49.92	-8.86	41.06	54	-12.94	AV
Horizontal	17355.131	59.96	-2.52	57.44	68.2	-10.76	PK
Horizontal	17355.131	44.27	-2.52	41.75	54	-12.25	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.097	74.27	-18.93	55.34	68.2	-12.86	PK
Vertical	6039.097	59.44	-18.93	40.51	54	-13.49	AV
Vertical	11650.113	62.12	-8.92	53.20	74	-20.80	PK
Vertical	11650.113	49.33	-8.92	40.41	54	-13.59	AV
Vertical	17475.058	55.06	-1.86	53.20	68.2	-15.00	PK
Vertical	17475.058	44.23	-1.86	42.37	54	-11.63	AV
Horizontal	6039.138	71.15	-18.93	52.22	68.2	-15.98	PK
Horizontal	6039.138	59.15	-18.93	40.21	54	-13.79	AV
Horizontal	11650.124	63.34	-8.92	54.42	74	-19.58	PK
Horizontal	11650.124	49.65	-8.92	40.73	54	-13.27	AV
Horizontal	17475.116	59.18	-1.86	57.32	68.2	-10.88	PK
Horizontal	17475.116	44.71	-1.86	42.85	54	-11.15	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	Fre-quency	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	4679.125	70.53	-20.24	50.29	74	-23.71	PK
Vertical	4679.125	59.77	-20.24	39.52	54	-14.48	AV
Vertical	11510.092	60.15	-8.81	51.34	74	-22.66	PK
Vertical	11510.092	49.42	-8.81	40.61	54	-13.39	AV
Vertical	17265.022	59.17	-3.01	56.16	68.2	-12.04	PK
Vertical	17265.022	44.21	-3.01	41.20	54	-12.80	AV
Horizontal	4679.134	71.76	-20.24	51.52	74	-22.48	PK
Horizontal	4679.134	59.84	-20.24	39.59	54	-14.41	AV
Horizontal	11510.176	60.94	-8.81	52.13	74	-21.87	PK
Horizontal	11510.176	49.71	-8.81	40.90	54	-13.10	AV
Horizontal	17265.086	59.08	-3.01	56.07	68.2	-12.13	PK
Horizontal	17265.086	44.67	-3.01	41.66	54	-12.34	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.069	71.06	-18.93	52.12	68.2	-16.08	PK
Vertical	6039.069	59.41	-18.93	40.48	54	-13.52	AV
Vertical	11590.047	64.47	-8.87	55.60	74	-18.40	PK
Vertical	11590.047	49.13	-8.87	40.26	54	-13.74	AV
Vertical	17385.098	55.49	-2.35	53.14	68.2	-15.06	PK
Vertical	17385.098	44.96	-2.35	42.61	54	-11.39	AV
Horizontal	6039.066	72.01	-18.93	53.08	68.2	-15.12	PK
Horizontal	6039.066	59.01	-18.93	40.08	54	-13.92	AV
Horizontal	11590.033	63.45	-8.87	54.58	74	-19.42	PK
Horizontal	11590.033	49.61	-8.87	40.74	54	-13.26	AV
Horizontal	17385.040	55.30	-2.35	52.95	68.2	-15.25	PK
Horizontal	17385.040	44.68	-2.35	42.33	54	-11.67	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.

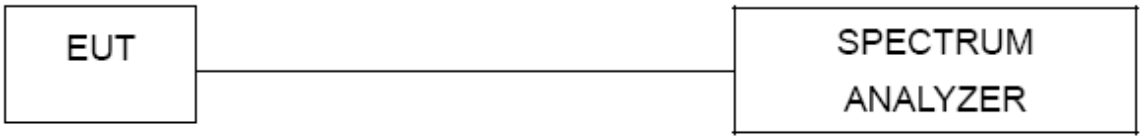
Test Mode:	TX (5.8G) -- 802.11ac-HT80

Polar	Fre-quency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.129	73.57	-20.24	53.33	74	-20.67	PK
Vertical	4679.129	59.01	-20.24	38.77	54	-15.23	AV
Vertical	11550.086	61.67	-8.84	52.83	74	-21.17	PK
Vertical	11550.086	49.17	-8.84	40.33	54	-13.67	AV
Vertical	17325.011	57.64	-2.68	54.96	68.2	-13.24	PK
Vertical	17325.011	44.67	-2.68	41.99	54	-12.01	AV
Horizontal	4679.174	73.76	-20.24	53.52	74	-20.48	PK
Horizontal	4679.174	59.65	-20.24	39.41	54	-14.59	AV
Horizontal	11550.156	61.80	-8.84	52.96	74	-21.04	PK
Horizontal	11550.156	49.64	-8.84	40.80	54	-13.20	AV
Horizontal	17325.043	58.43	-2.68	55.75	68.2	-12.45	PK
Horizontal	17325.043	44.73	-2.68	42.05	54	-11.95	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.l.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

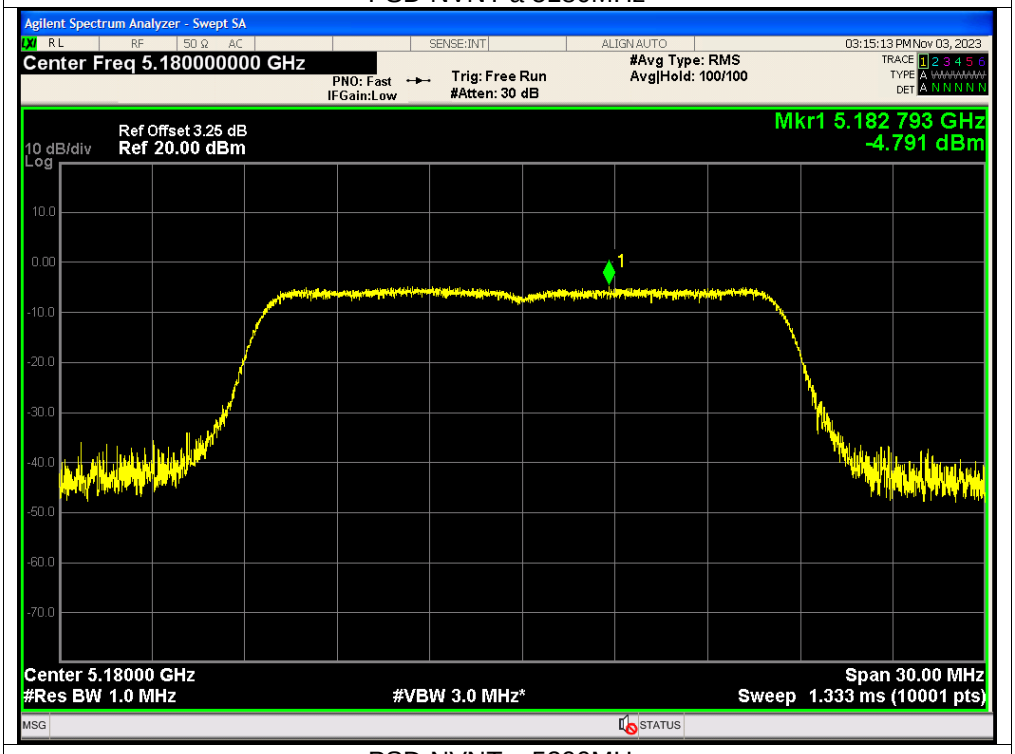
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-4.79	11	Pass
NVNT	a	5200	-4.01	11	Pass
NVNT	a	5240	-4.04	11	Pass
NVNT	n20	5180	-5.95	11	Pass
NVNT	n20	5200	-5.59	11	Pass
NVNT	n20	5240	-5.40	11	Pass
NVNT	n40	5190	-9.83	11	Pass
NVNT	n40	5230	-9.63	11	Pass
NVNT	ac20	5180	-6.58	11	Pass
NVNT	ac20	5200	-6.61	11	Pass
NVNT	ac20	5240	-6.10	11	Pass
NVNT	ac40	5190	-9.47	11	Pass
NVNT	ac40	5230	-9.53	11	Pass
NVNT	ac80	5210	-13.30	11	Pass

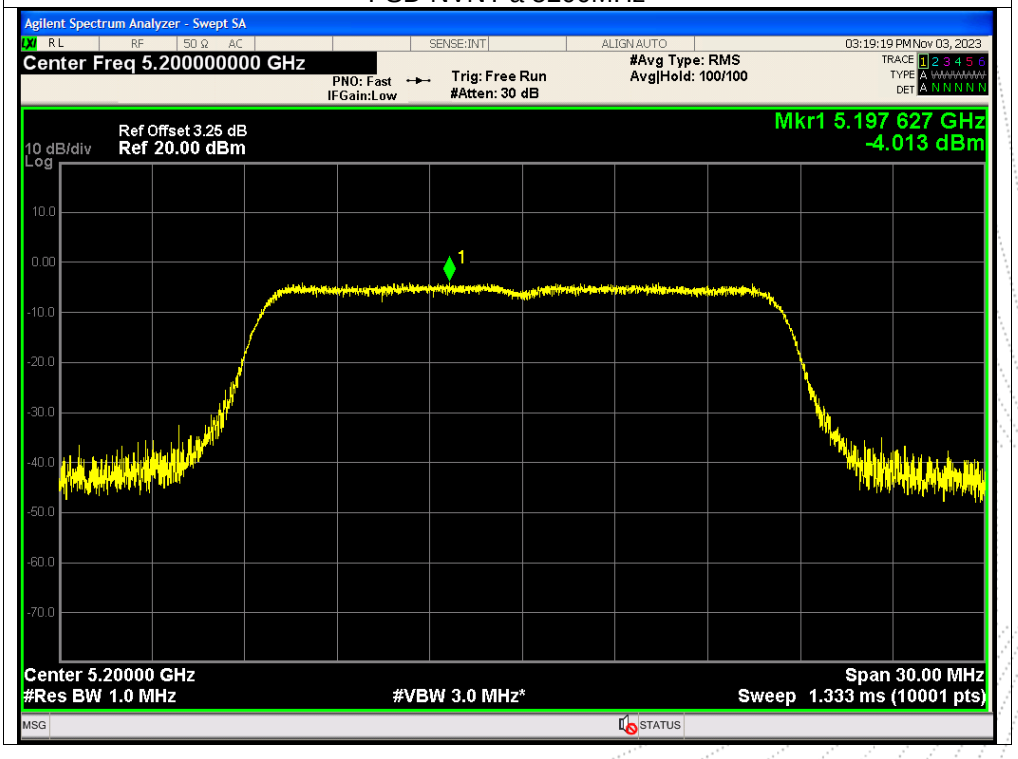
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-6.86	30	Pass
NVNT	a	5785	-6.88	30	Pass
NVNT	a	5825	-6.84	30	Pass
NVNT	n20	5745	-8.00	30	Pass
NVNT	n20	5785	-8.36	30	Pass
NVNT	n20	5825	-8.80	30	Pass
NVNT	n40	5755	-11.77	30	Pass
NVNT	n40	5795	-12.03	30	Pass
NVNT	ac20	5745	-8.49	30	Pass
NVNT	ac20	5785	-8.55	30	Pass
NVNT	ac20	5825	-8.88	30	Pass
NVNT	ac40	5755	-11.85	30	Pass
NVNT	ac40	5795	-11.95	30	Pass
NVNT	ac80	5775	-16.42	30	Pass

Test Graphs

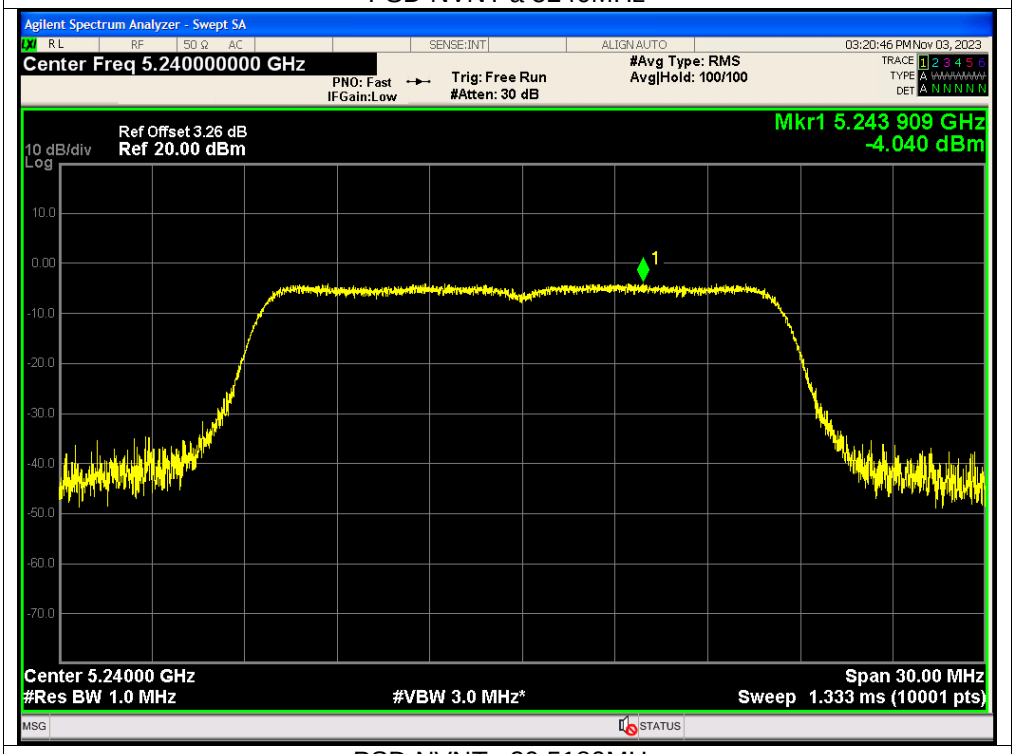
PSD NVNT a 5180MHz



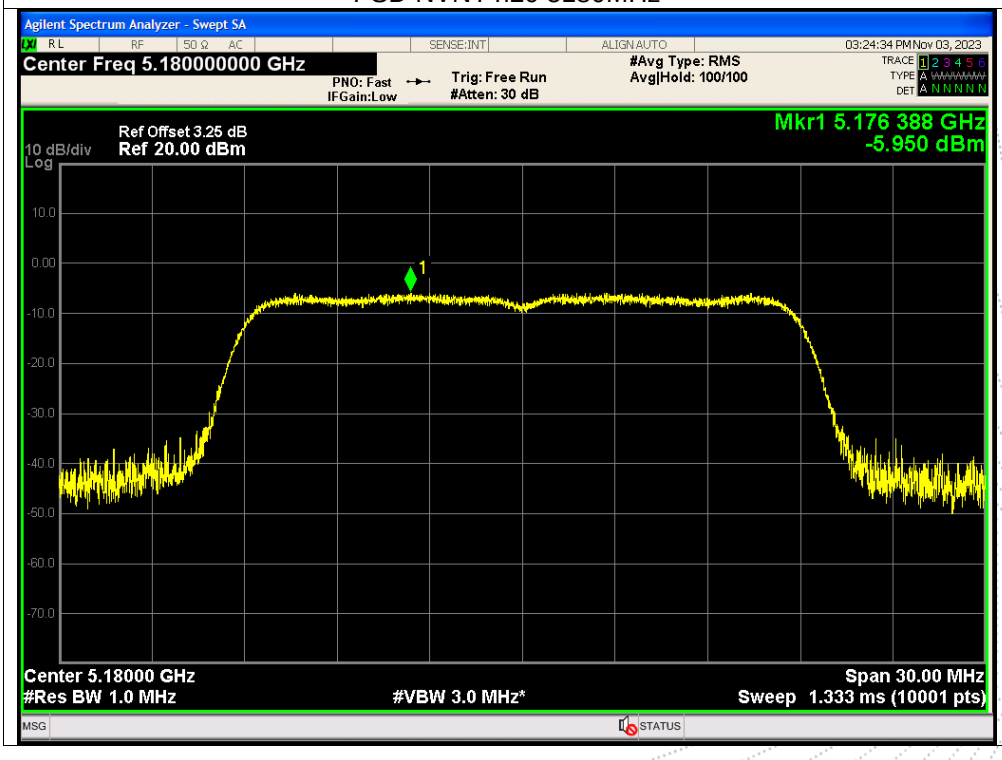
PSD NVNT a 5200MHz



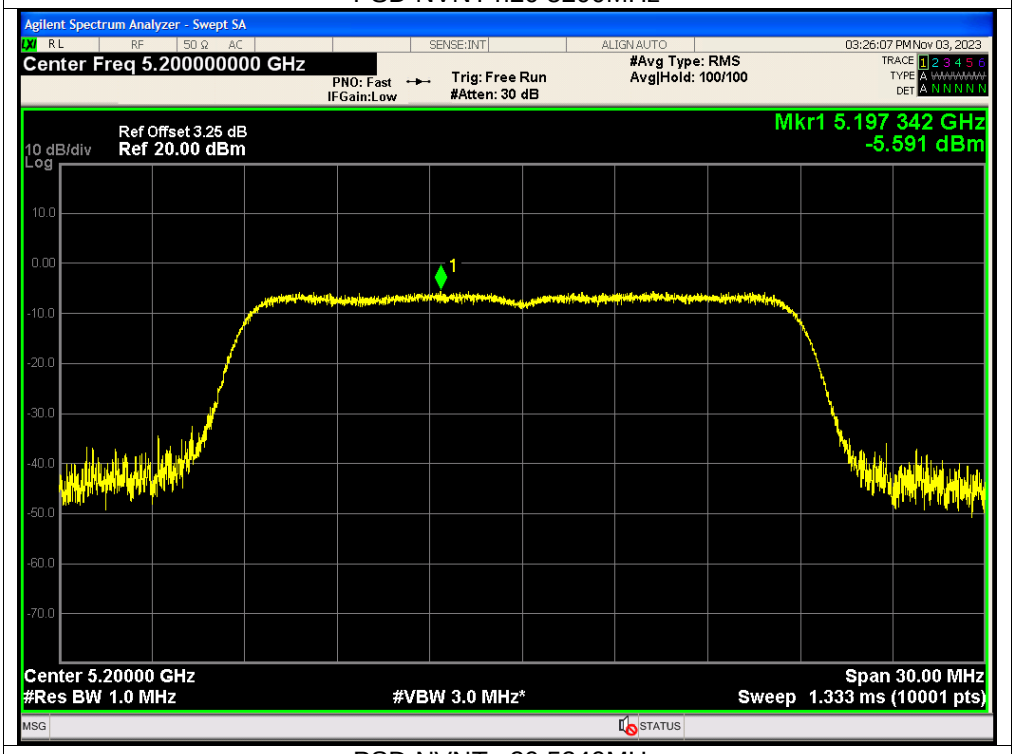
PSD NVNT a 5240MHz



PSD NVNT n20 5180MHz



PSD NVNT n20 5200MHz



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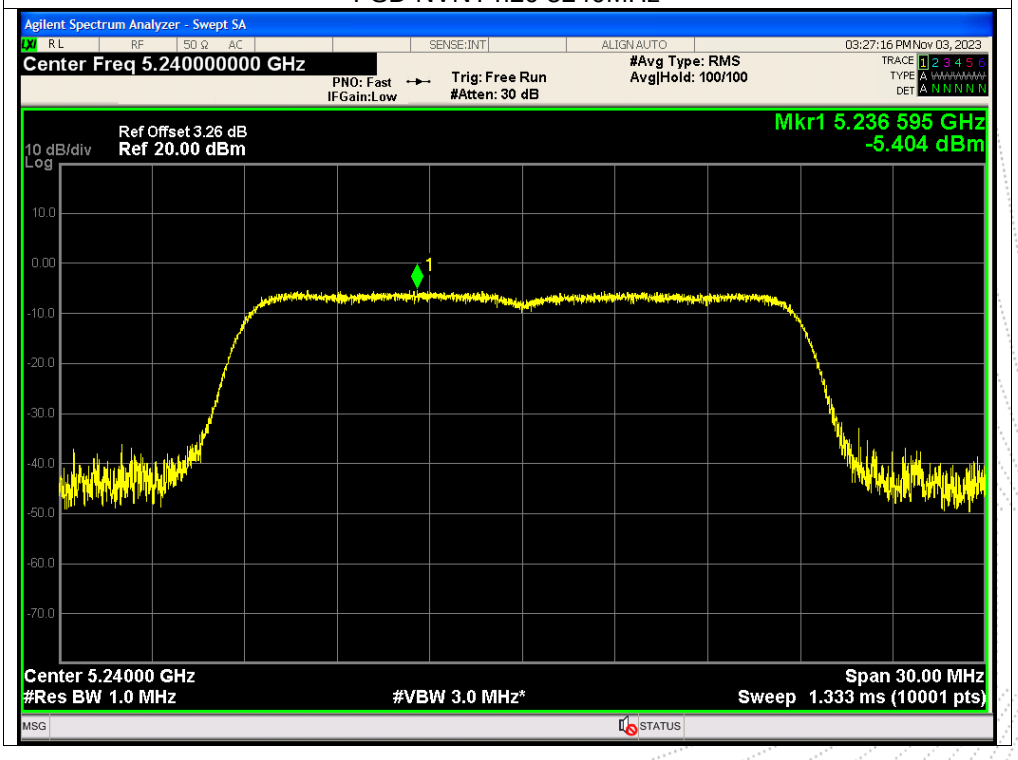
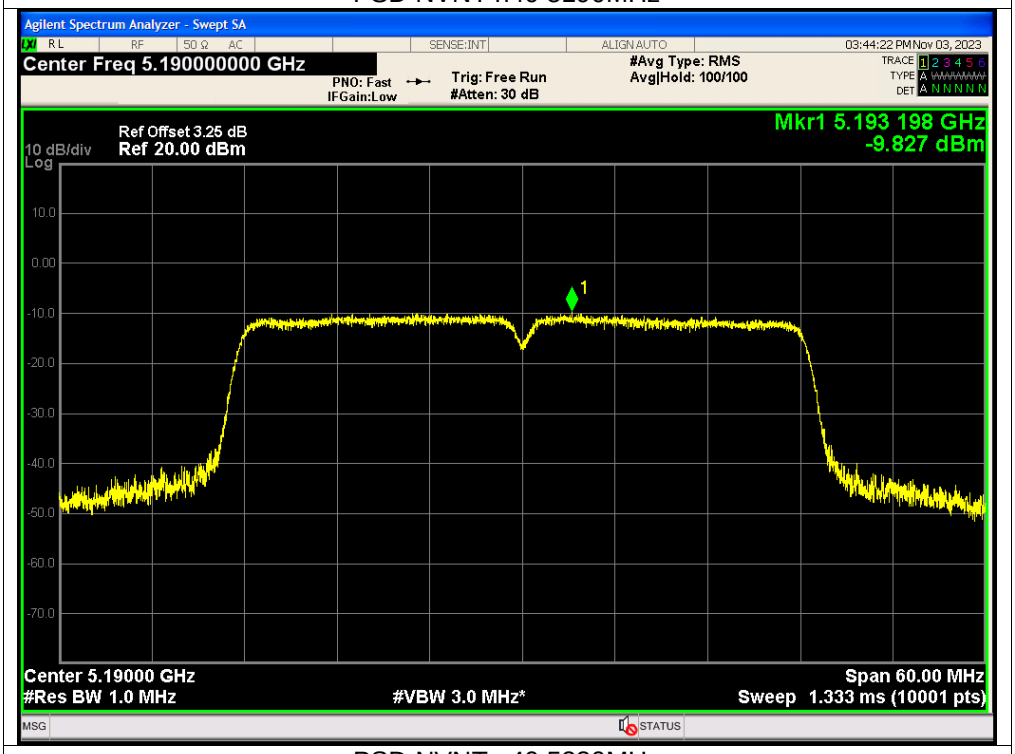


PSD NVNT n40 5190MHz



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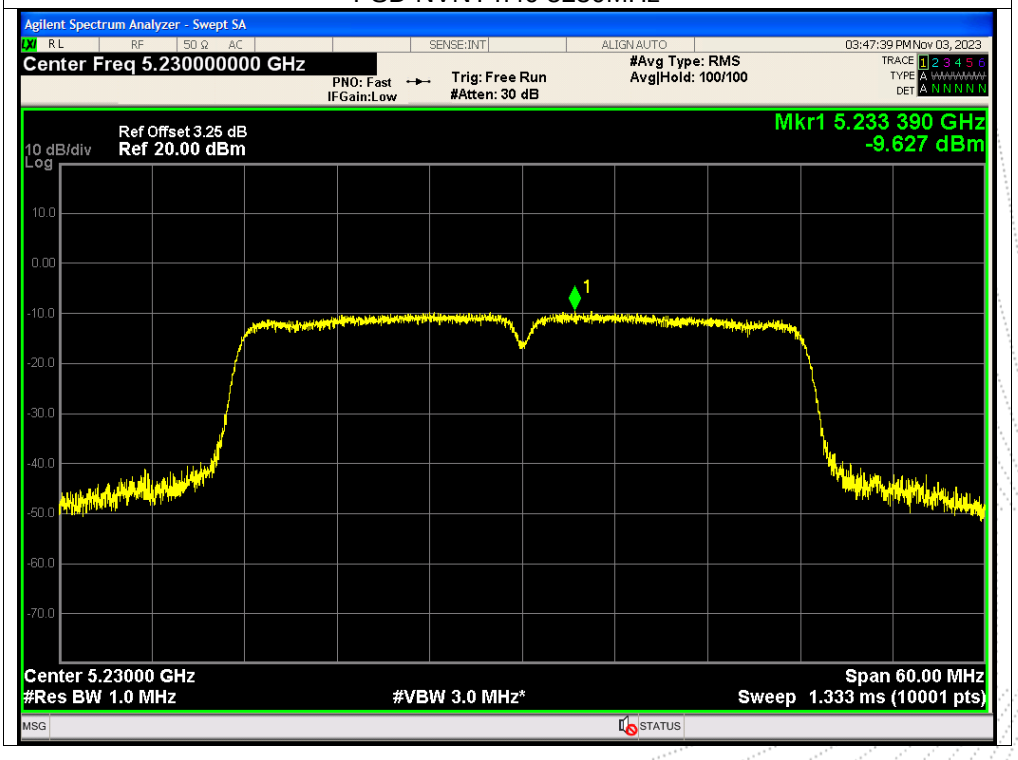
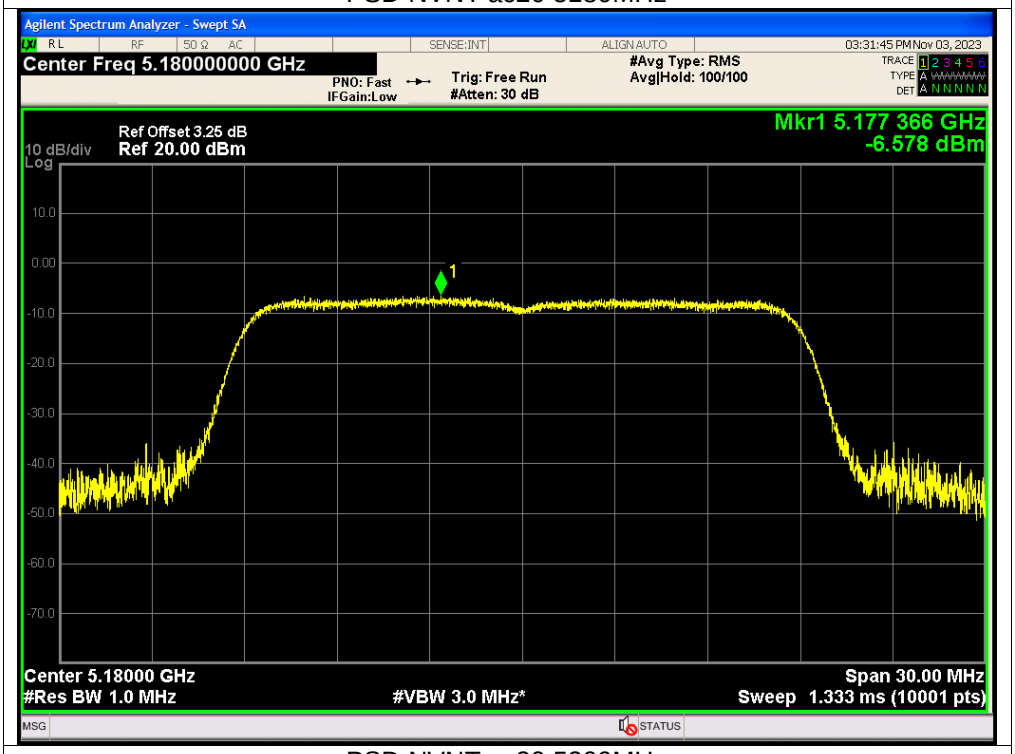


PSD NVNT ac20 5180MHz



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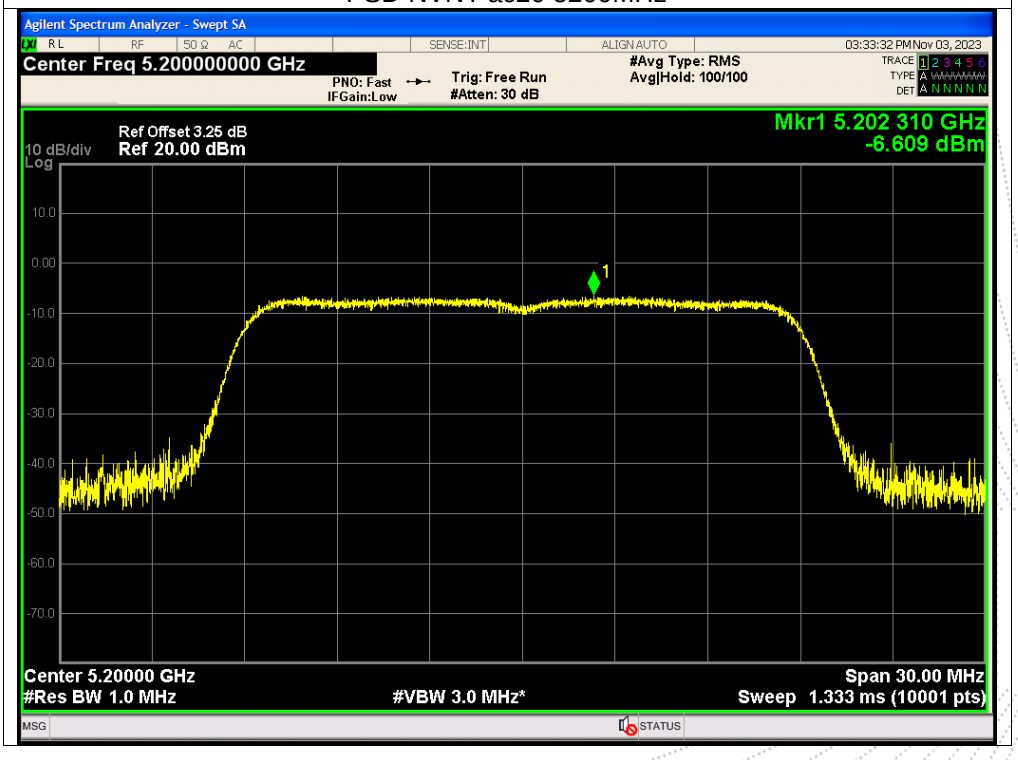

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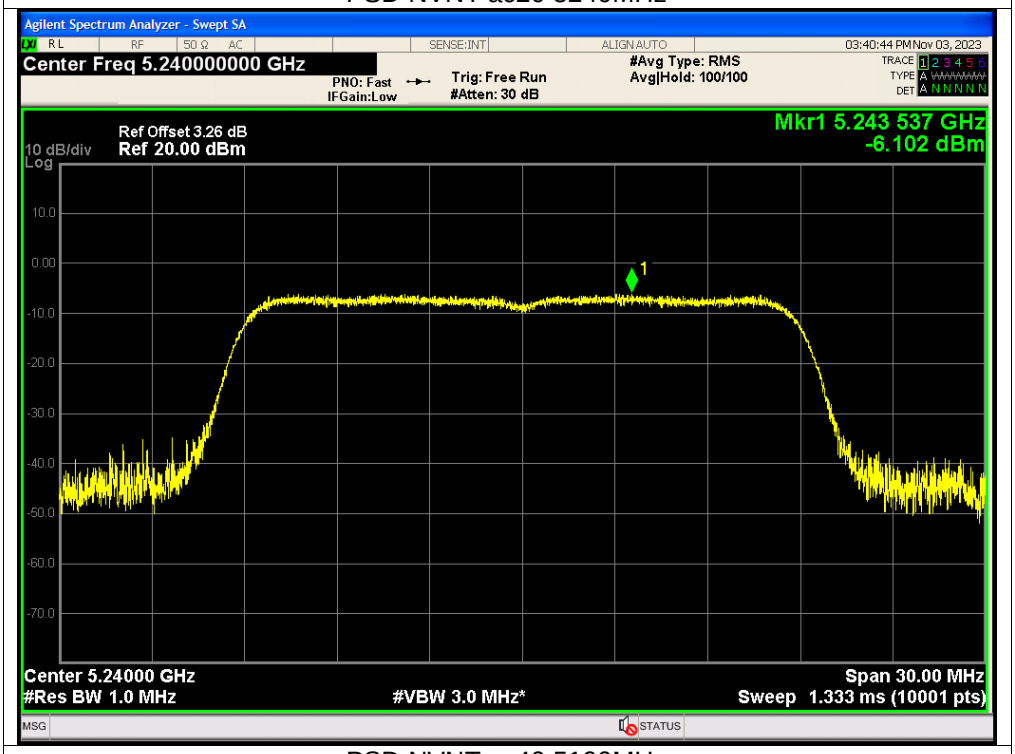
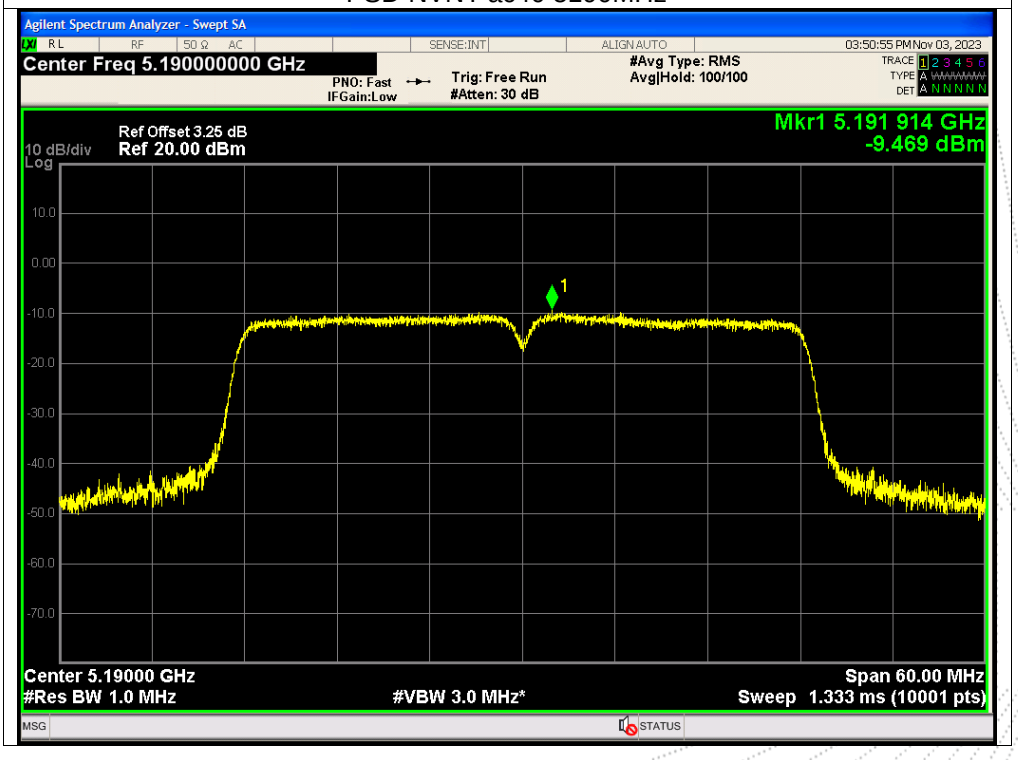
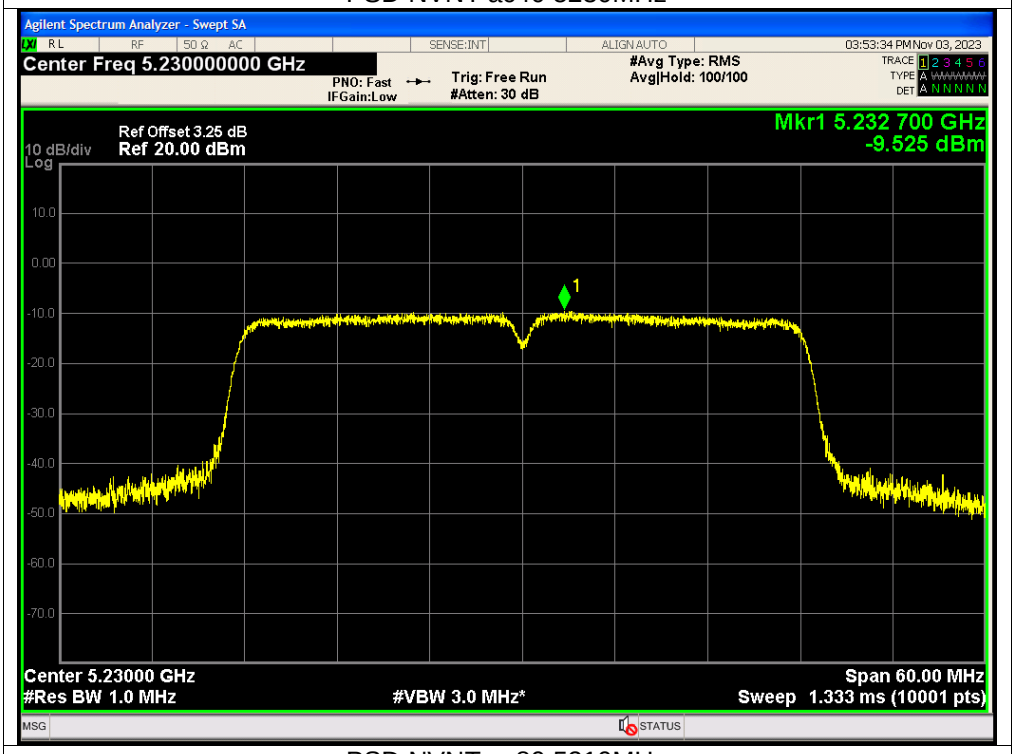


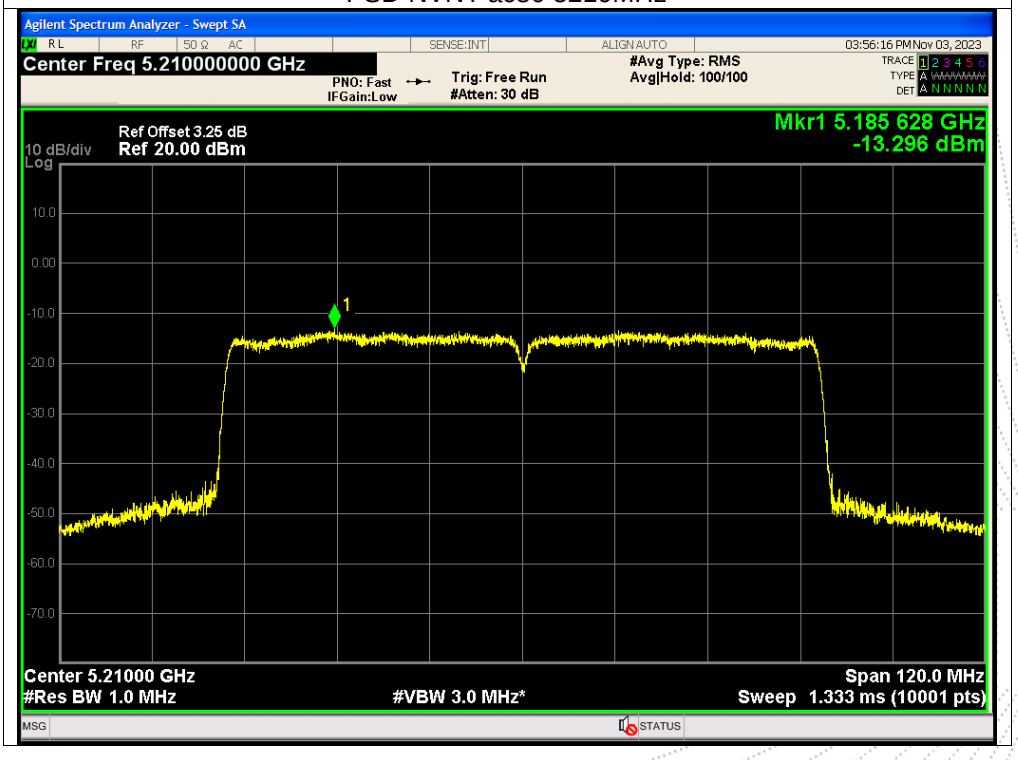
PSD NVNT ac40 5190MHz



PSD NVNT ac40 5230MHz

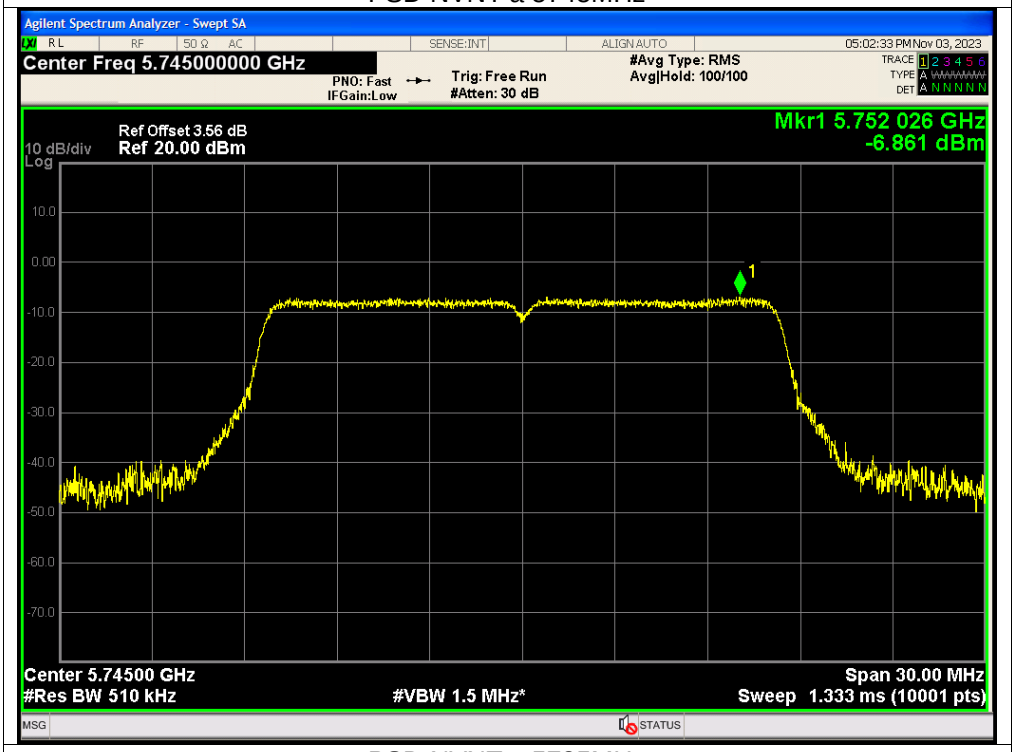


PSD NVNT ac80 5210MHz

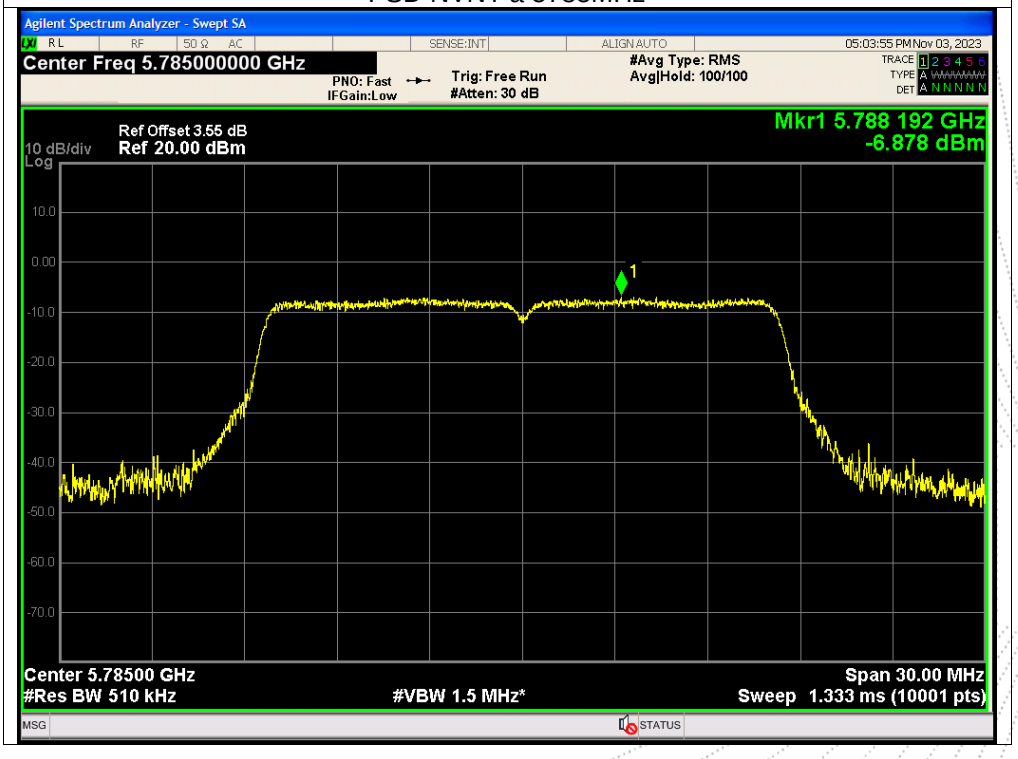


Test Graphs

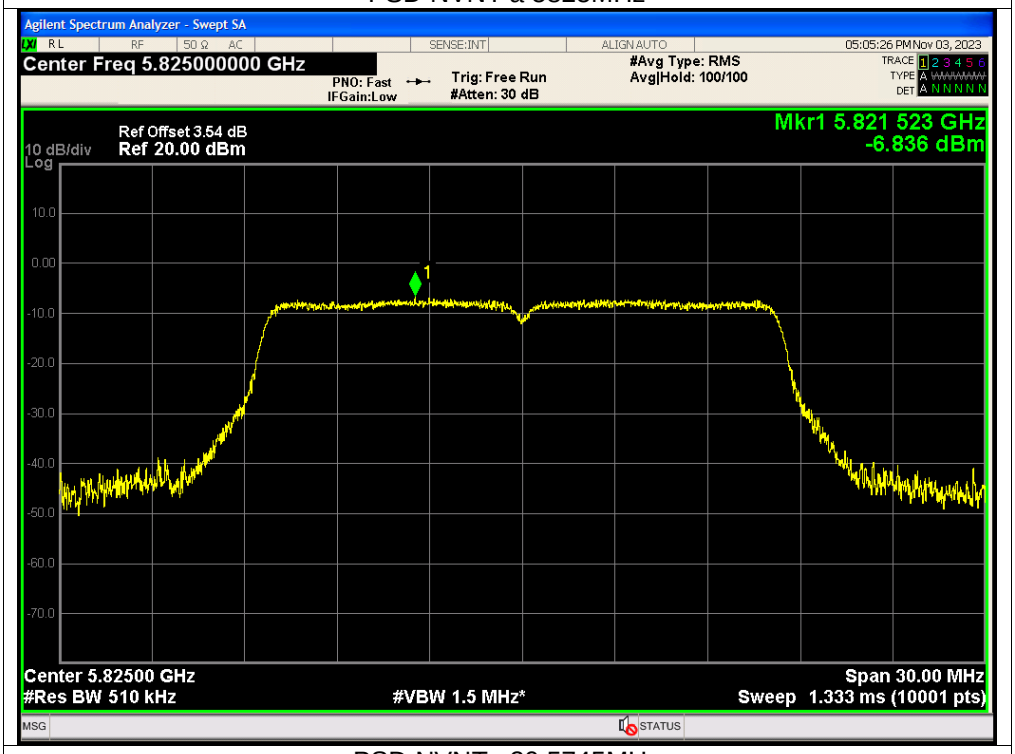
PSD NVNT a 5745MHz



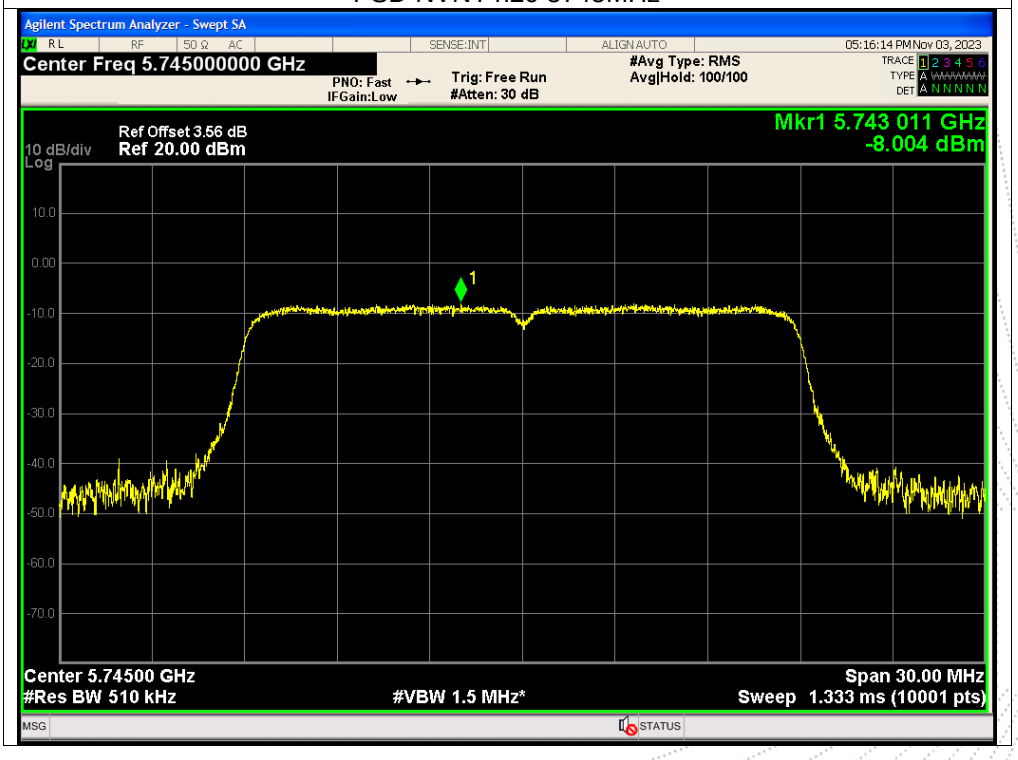
PSD NVNT a 5785MHz



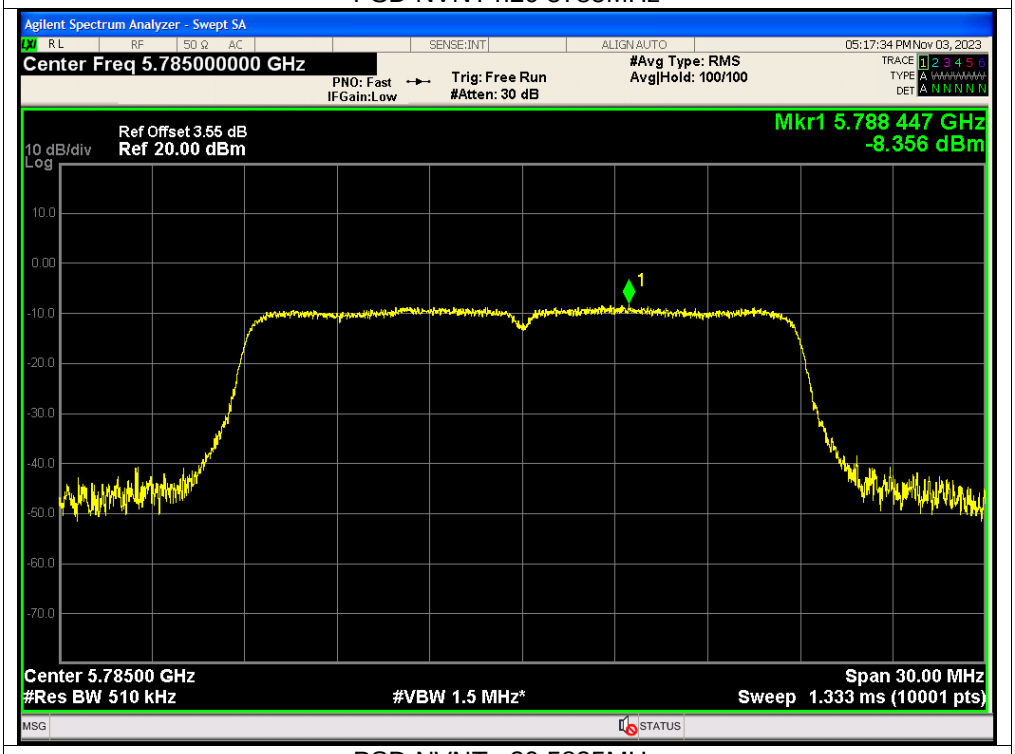
PSD NVNT a 5825MHz



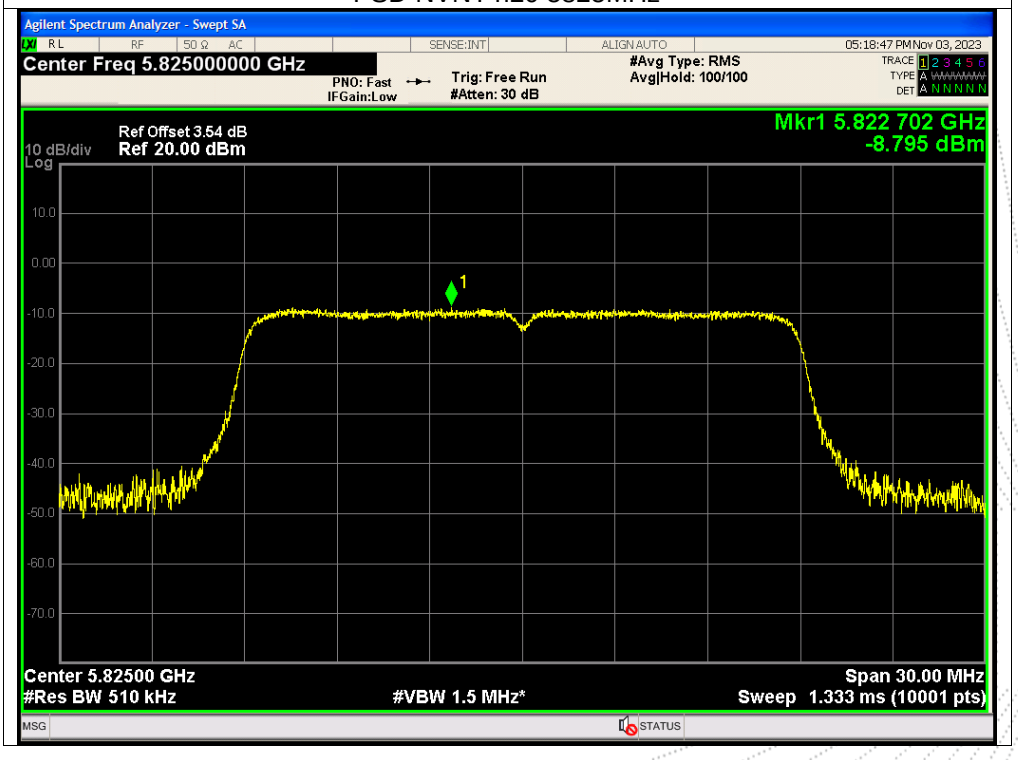
PSD NVNT n20 5745MHz



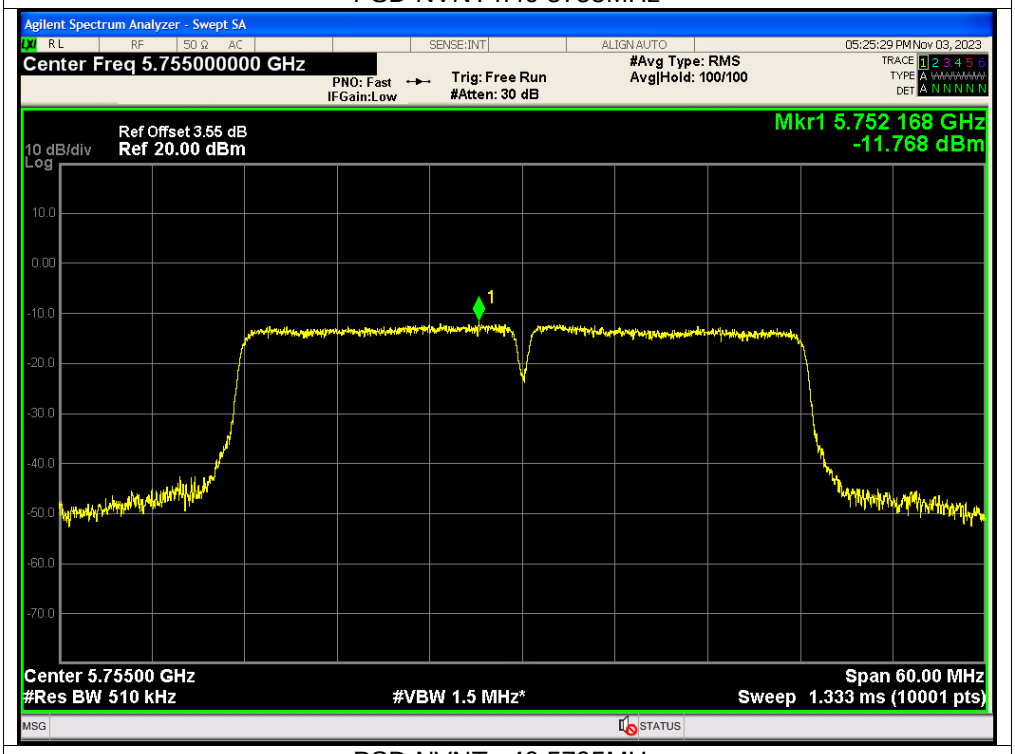
PSD NVNT n20 5785MHz



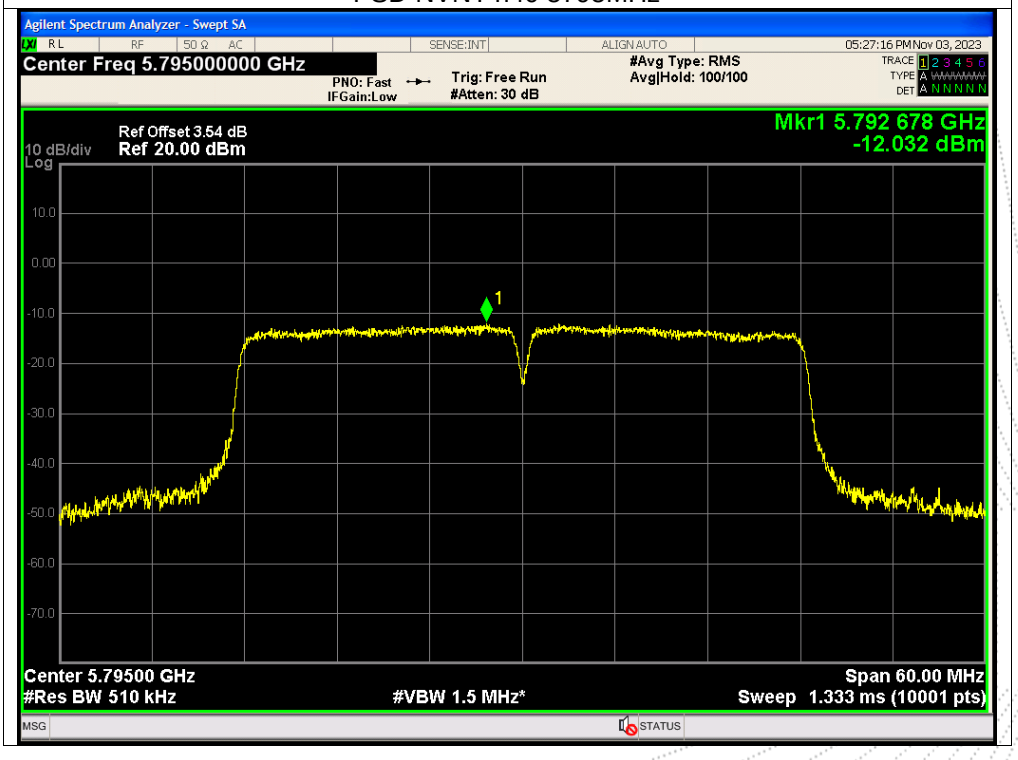
PSD NVNT n20 5825MHz



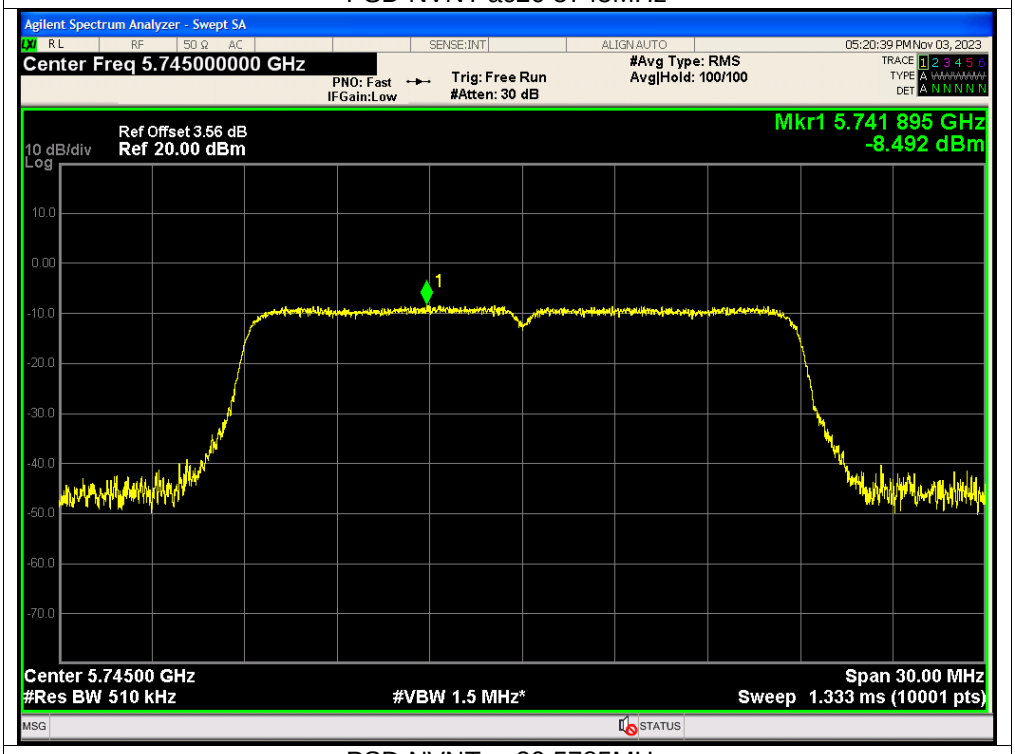
PSD NVNT n40 5755MHz



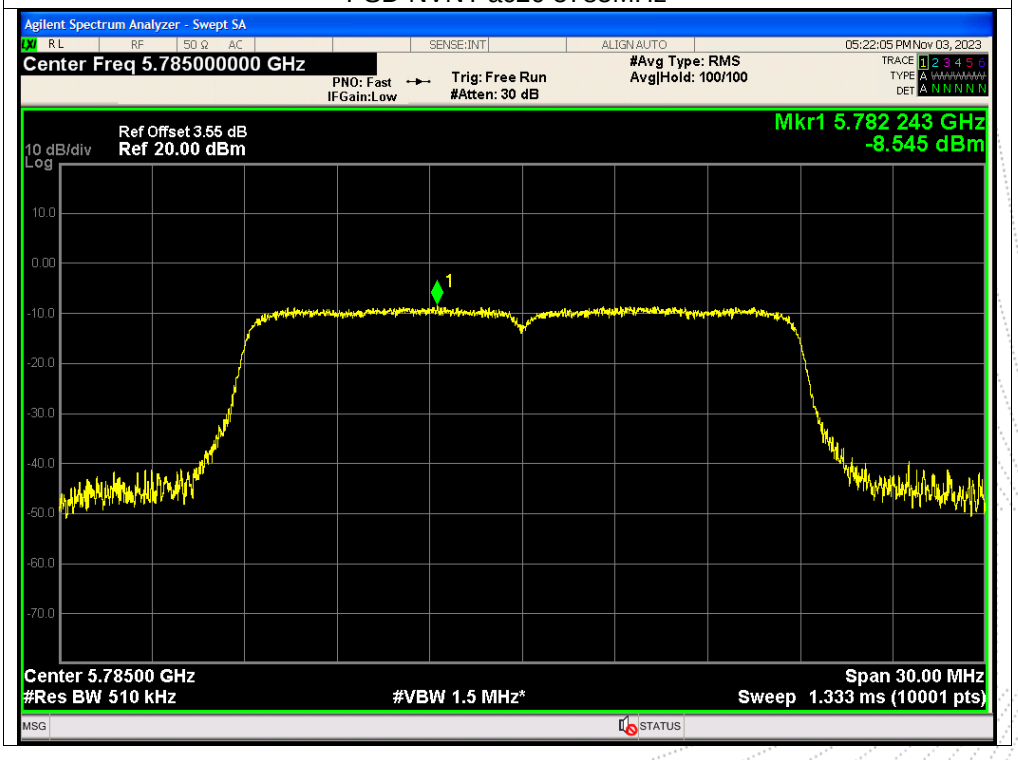
PSD NVNT n40 5795MHz



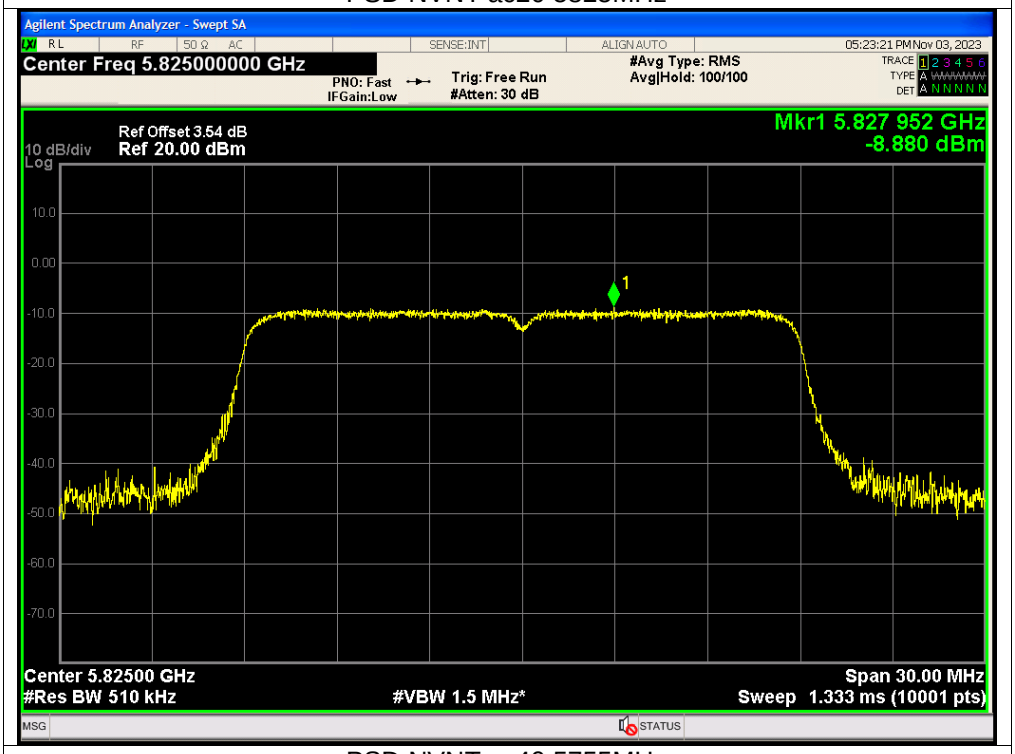
PSD NVNT ac20 5745MHz



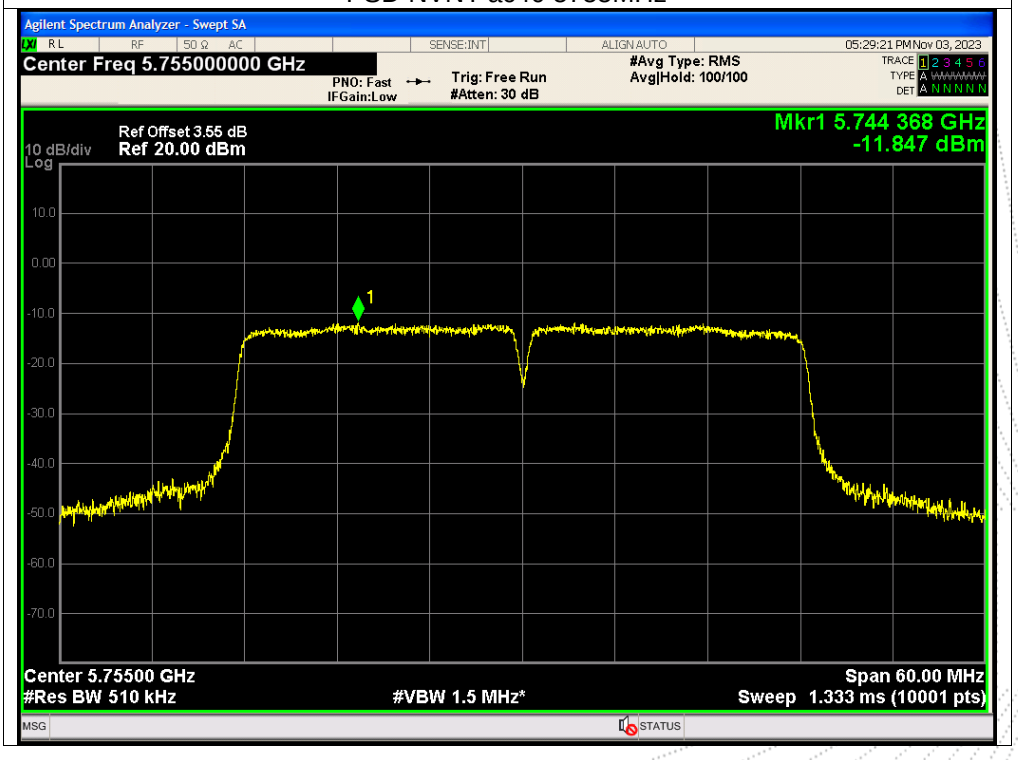
PSD NVNT ac20 5785MHz



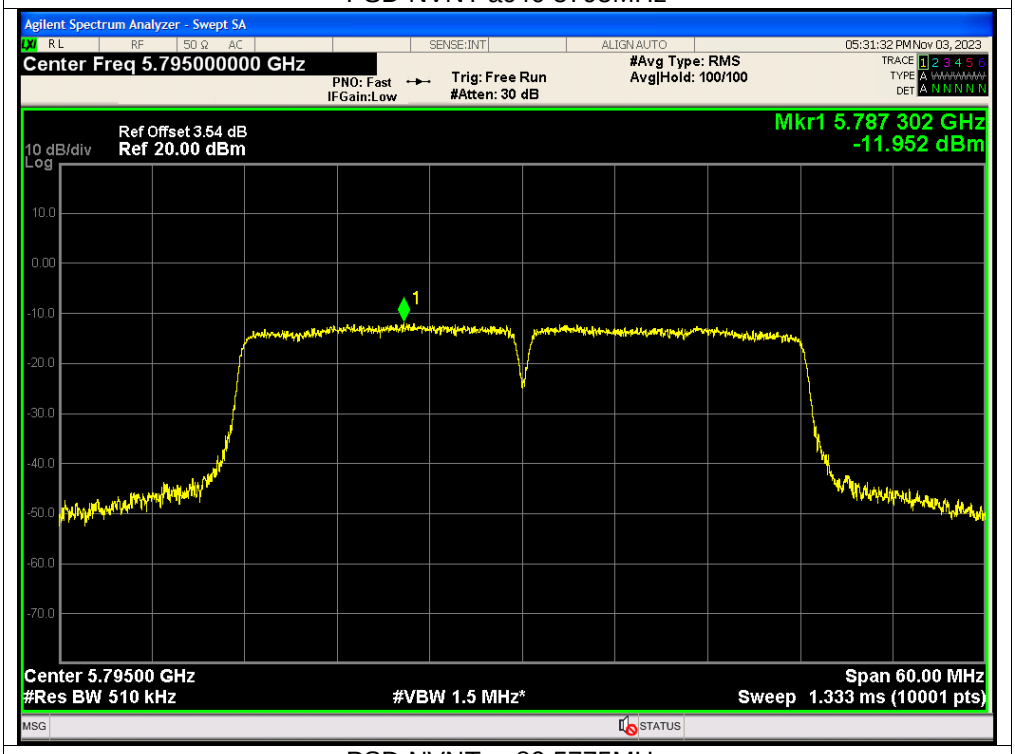
PSD NVNT ac20 5825MHz



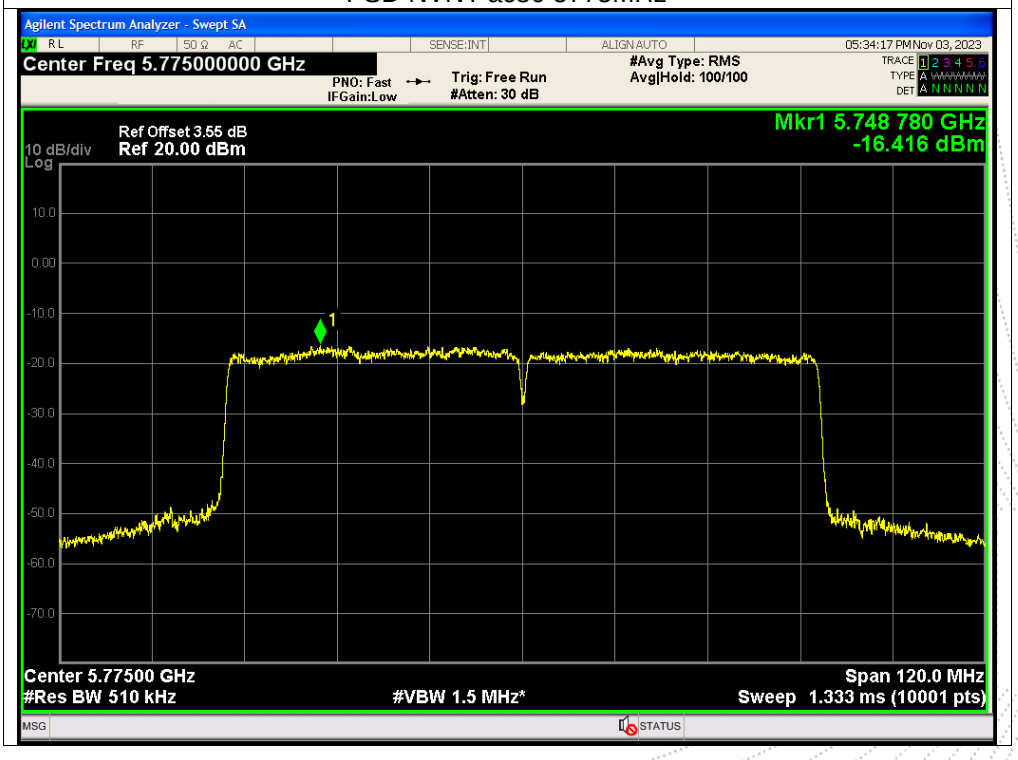
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz

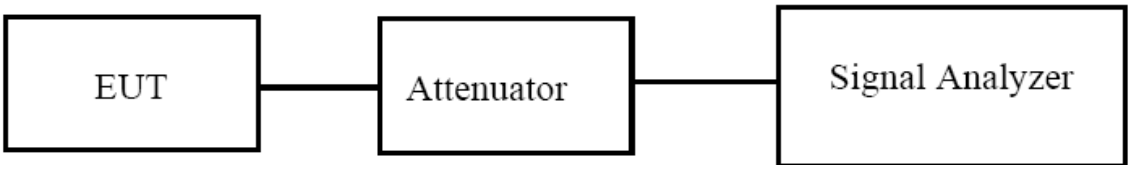


PSD NVNT ac80 5775MHz



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.

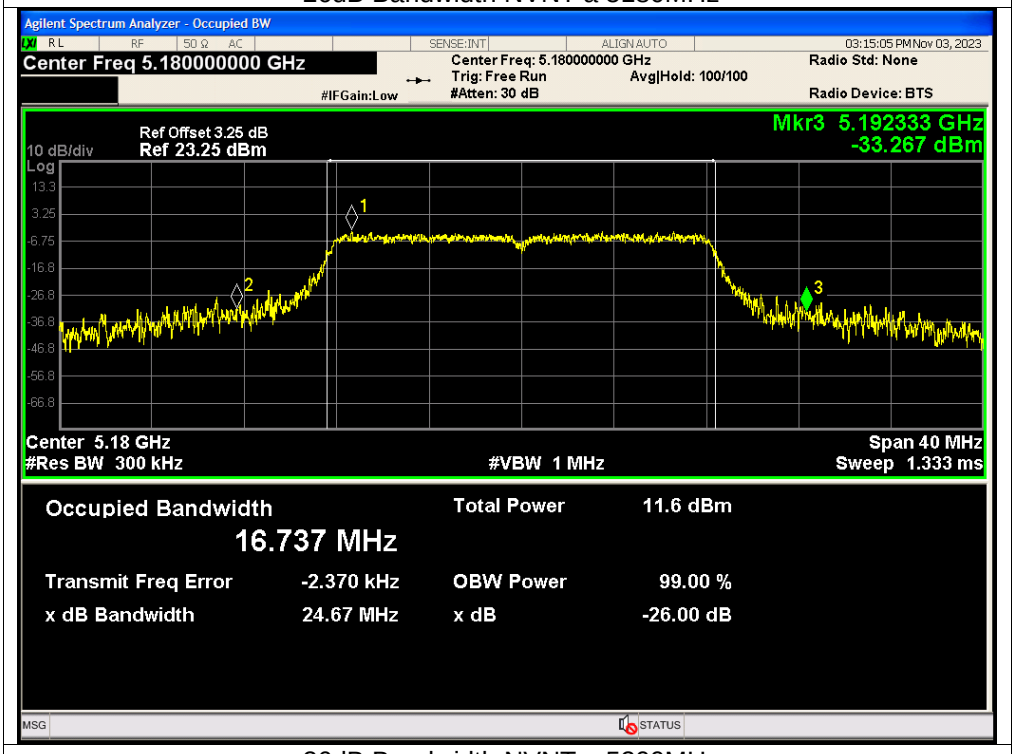
9.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

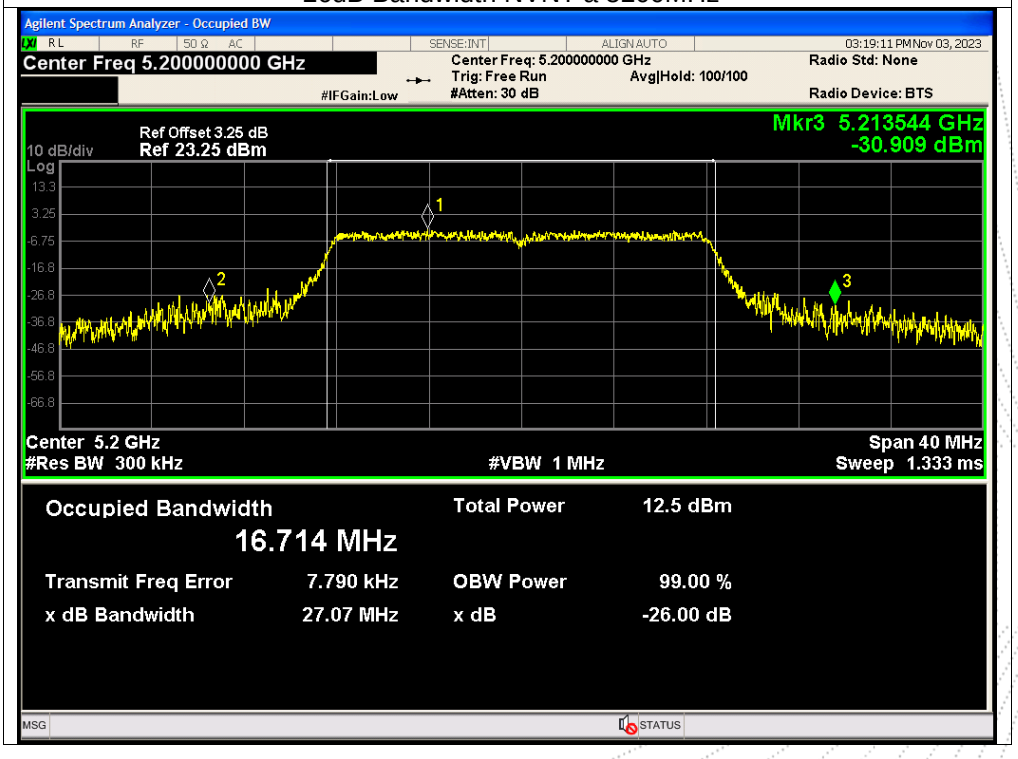
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Limit -26 dB Bandwidth	Result
NVNT	a	5180	16.564	24.671	0.5	Pass
NVNT	a	5200	16.543	27.072	0.5	Pass
NVNT	a	5240	16.550	27.153	0.5	Pass
NVNT	n20	5180	17.603	23.512	0.5	Pass
NVNT	n20	5200	17.610	26.602	0.5	Pass
NVNT	n20	5240	17.625	26.842	0.5	Pass
NVNT	n40	5190	36.115	49.685	0.5	Pass
NVNT	n40	5230	36.132	49.237	0.5	Pass
NVNT	ac20	5180	17.592	26.818	0.5	Pass
NVNT	ac20	5200	17.607	29.097	0.5	Pass
NVNT	ac20	5240	17.603	26.494	0.5	Pass
NVNT	ac40	5190	36.085	49.878	0.5	Pass
NVNT	ac40	5230	36.156	47.932	0.5	Pass
NVNT	ac80	5210	75.503	84.190	0.5	Pass

Test Graphs

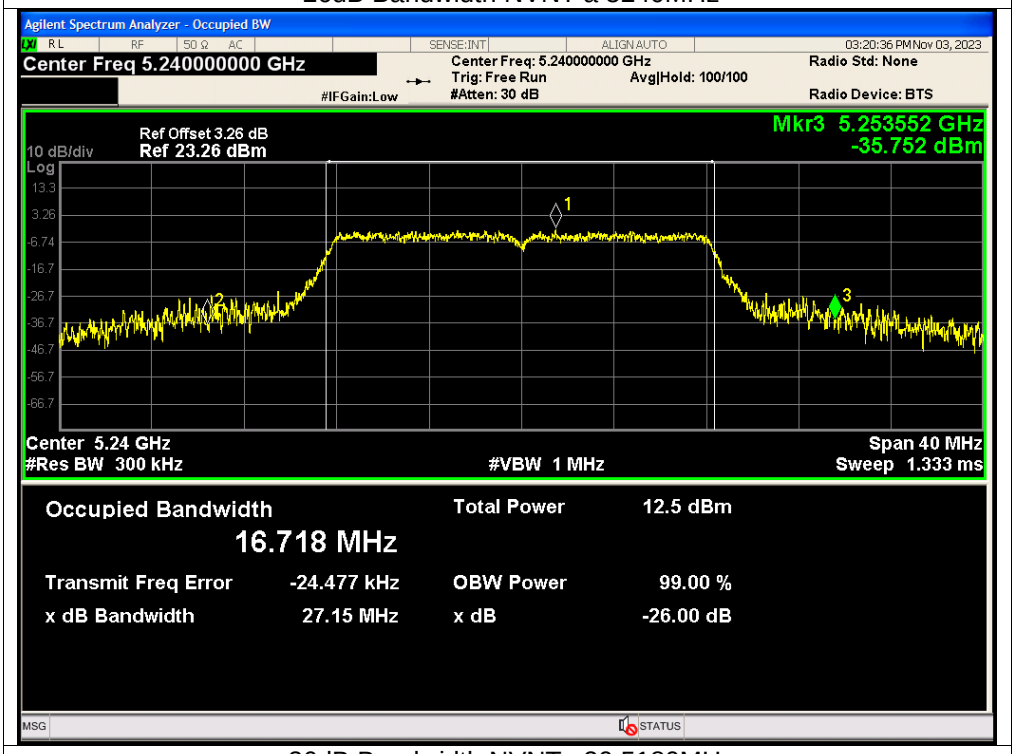
-26dB Bandwidth NVNT a 5180MHz



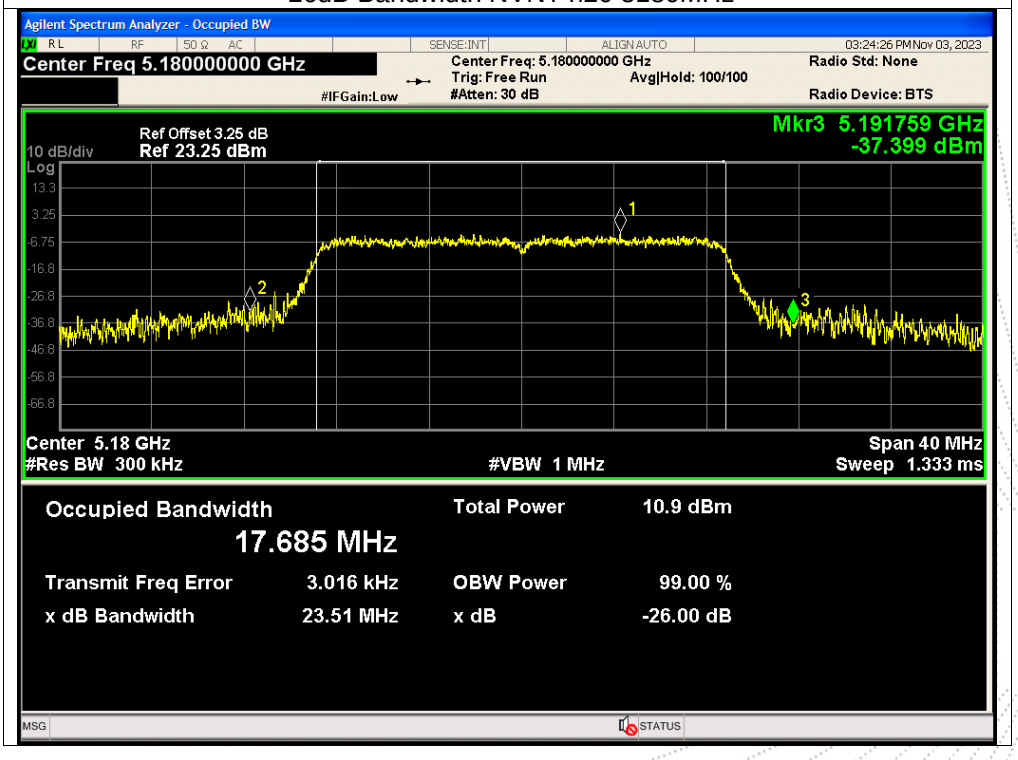
-26dB Bandwidth NVNT a 5200MHz



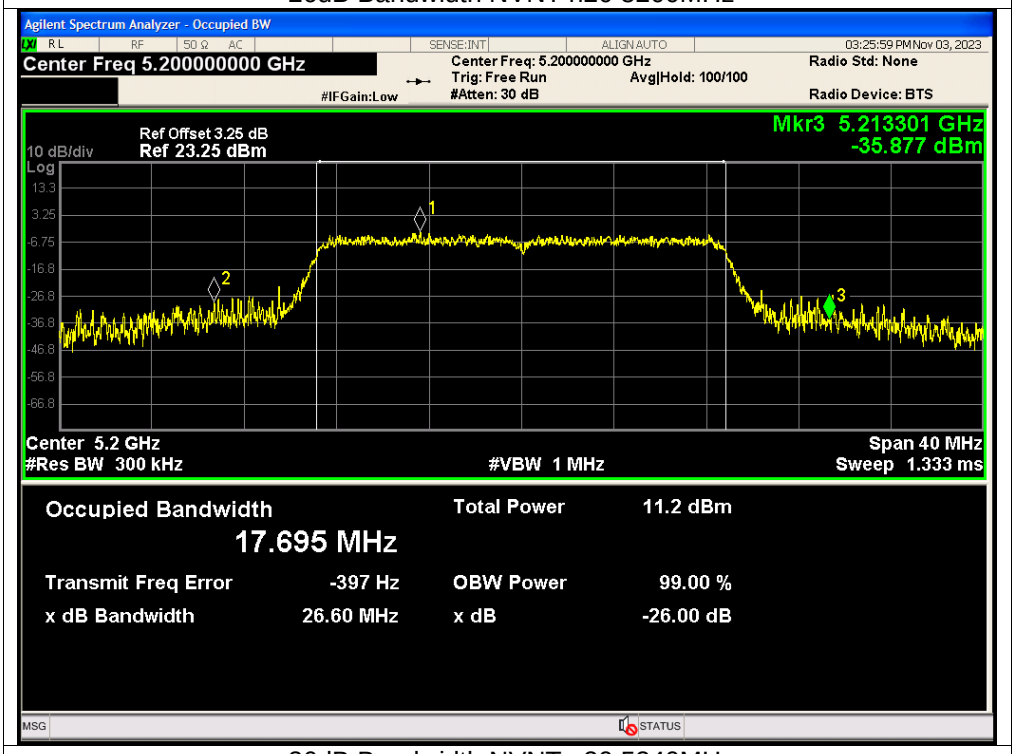
-26dB Bandwidth NVNT a 5240MHz



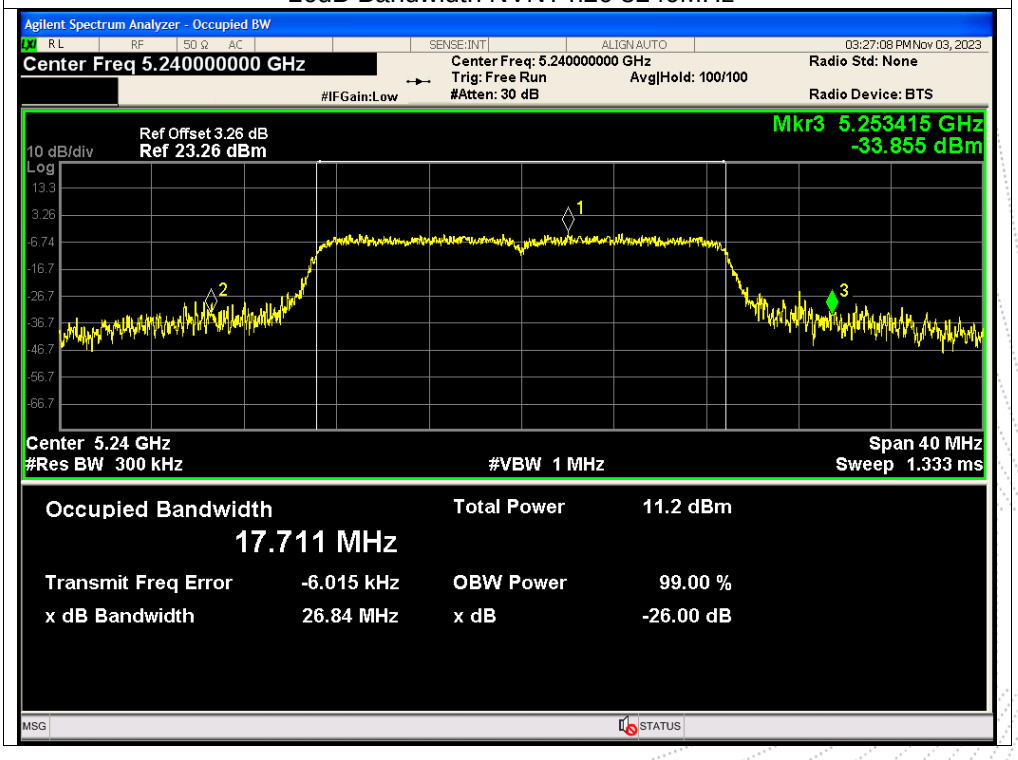
-26dB Bandwidth NVNT n20 5180MHz



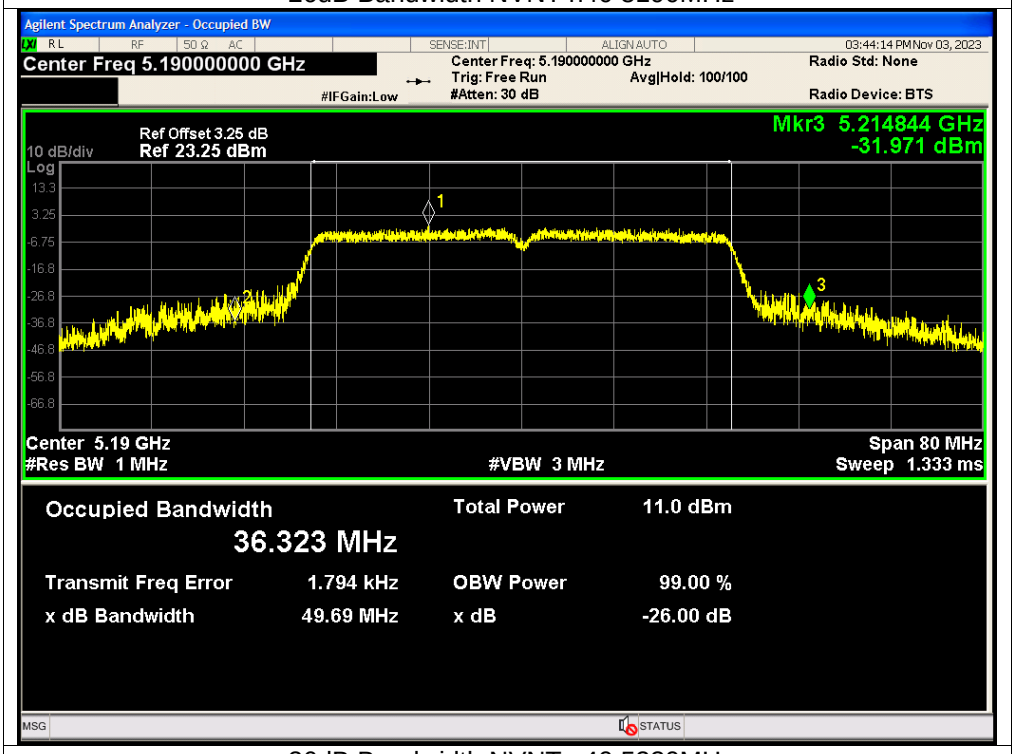
-26dB Bandwidth NVNT n20 5200MHz



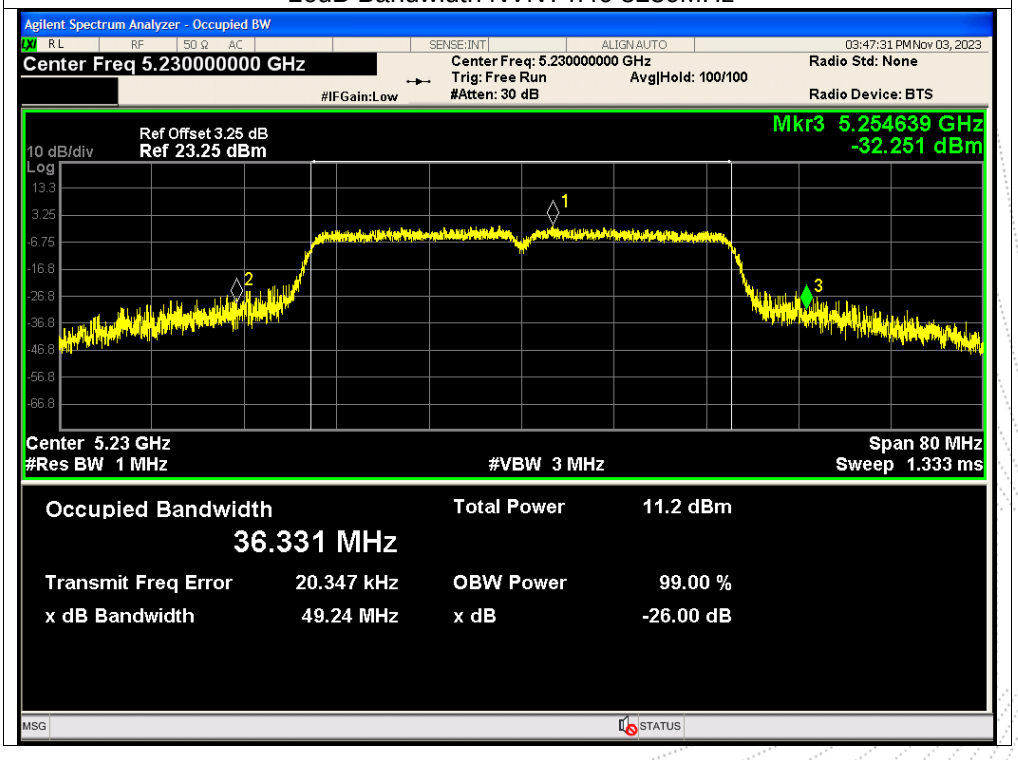
-26dB Bandwidth NVNT n20 5240MHz



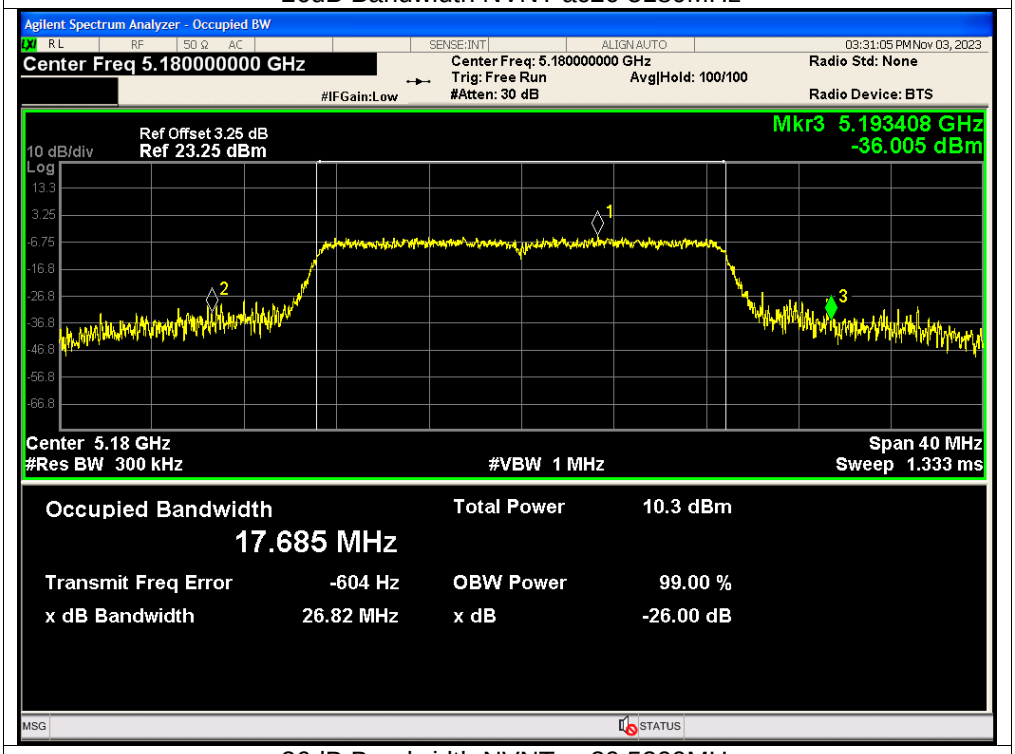
-26dB Bandwidth NVNT n40 5190MHz



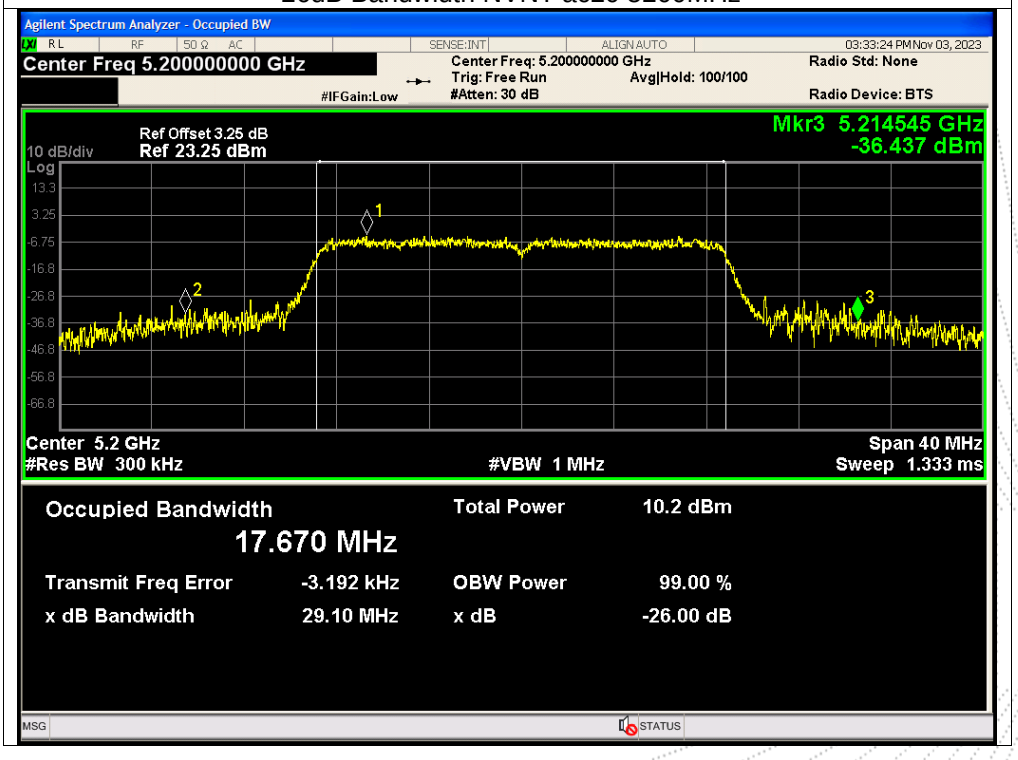
-26dB Bandwidth NVNT n40 5230MHz



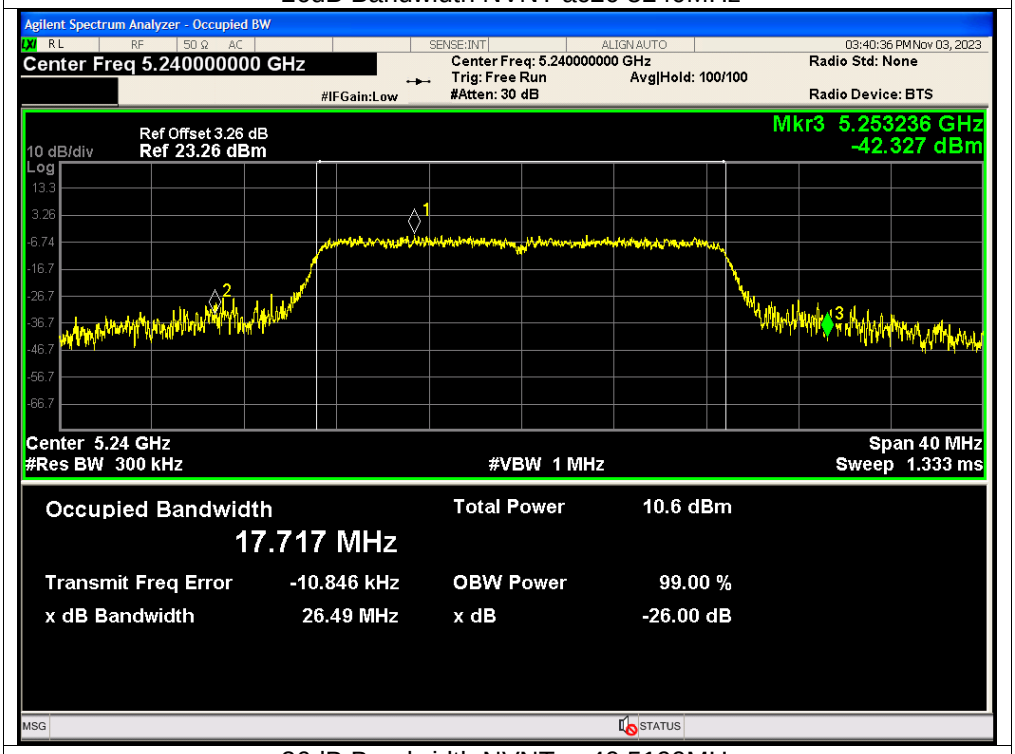
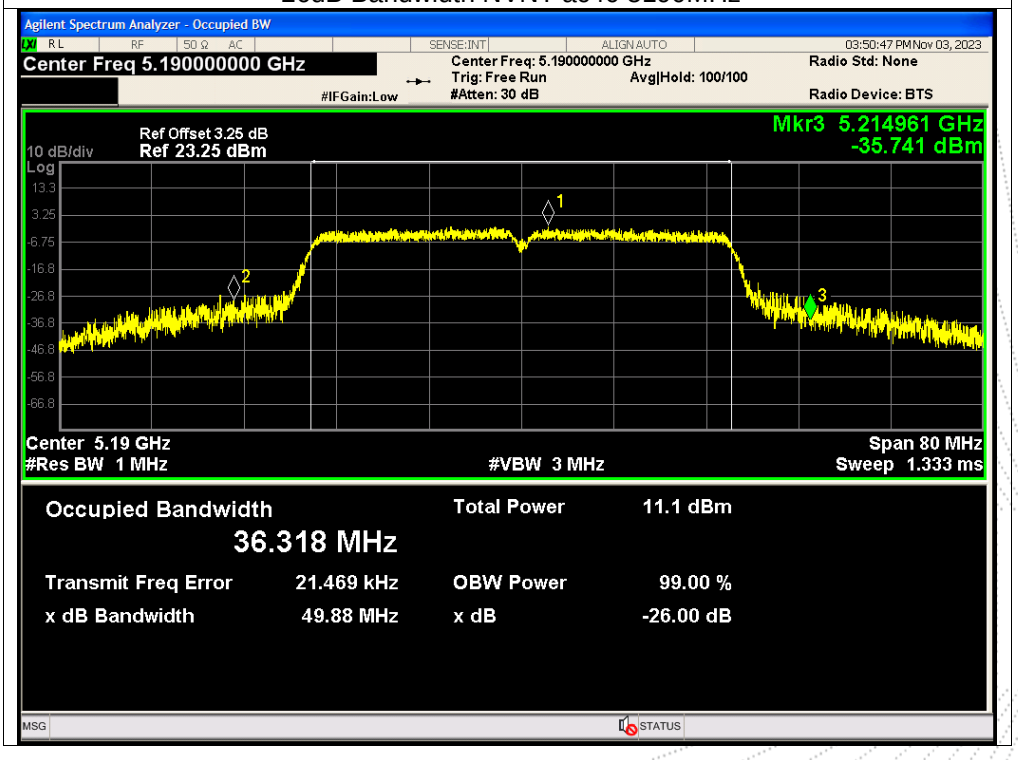
-26dB Bandwidth NVNT ac20 5180MHz



-26dB Bandwidth NVNT ac20 5200MHz



-26dB Bandwidth NVNT ac20 5240MHz



-26dB Bandwidth NVNT ac40 5190MHz