

TEST REPORT

Report No.: BCTC2502890039-4E

Applicant: Acer India PVT Limited

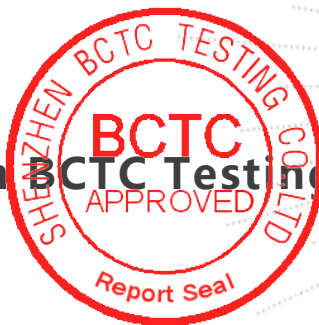
Product Name: Notebook

Test Model: TravelLite TL15-43M

Tested Date: 2025-02-20 to 2025-04-09

Issued Date: 2025-04-09

Shenzhen **BCTC** Testing Co., Ltd.



FCC ID: 2A94K-TL15-43M

Product Name: Notebook

Trademark: 

Model/Type reference: Travelite TL15-43M
Travelite TL15-43M-G2

Prepared For: Acer India PVT Limited

Address: Acer India PVT Limited, 6th Floor, Embassy Heights, No.13, Magrath Road, Bangalore, 560025, India

Manufacturer: Acer India PVT Limited

Address: Acer India PVT Limited, 6th Floor, Embassy Heights, No.13, Magrath Road, Bangalore, 560025, India

Prepared By: Shenzhen BCTC Testing Co., Ltd.

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Sample Received Date: 2025-02-20

Sample tested Date: 2025-02-20 to 2025-04-09

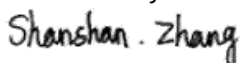
Issue Date: 2025-04-09

Report No.: BCTC2502890039-4E

Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01

Test Results: PASS

Tested by:



Shanshan. Zhang / 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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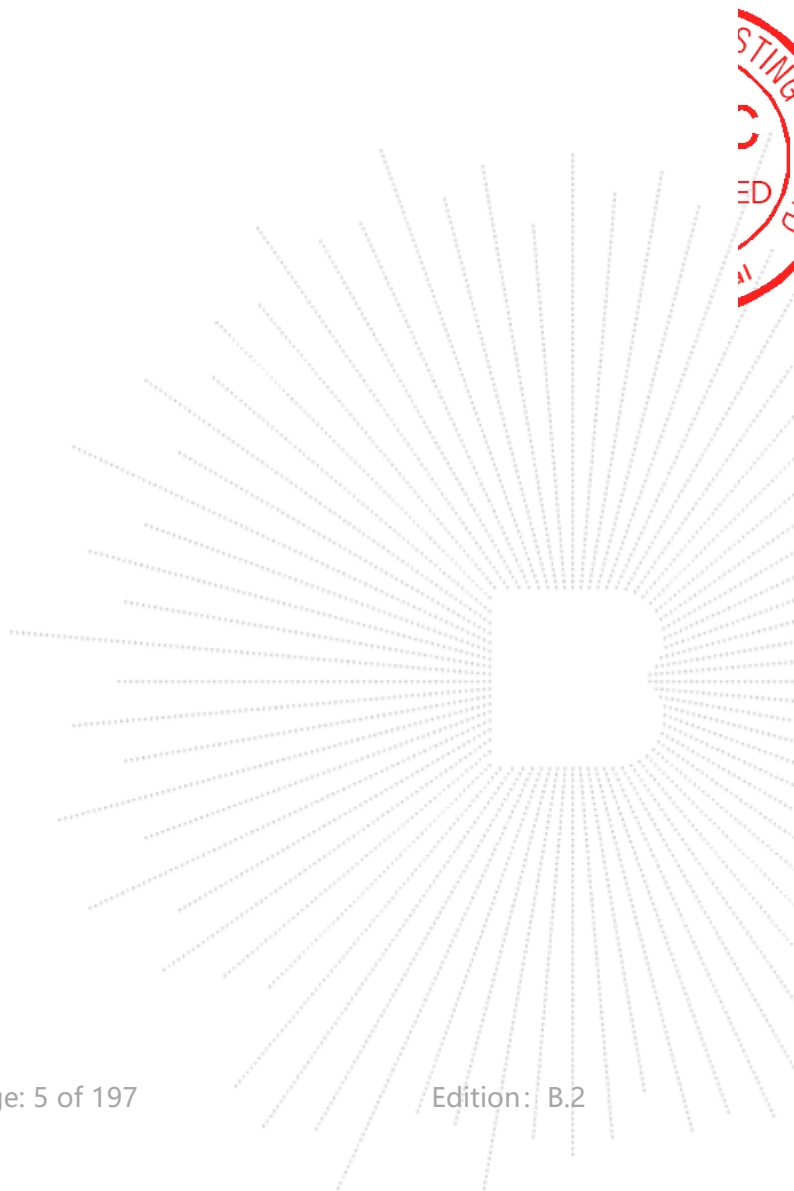
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2502890039-4E	2025-04-09	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

CO. LTD.

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	Power Spectral Density	U=1.19dB
8	Conducted output power uncertainty Above 1G	U=1.576dB
9	Conducted output power uncertainty below 1G	U=1.28dB
10	Conducted spurious emissions	U=0.55dB
11	Occupied Bandwidth/Frequency Range	U=3.46%
12	humidity uncertainty	U=5.3%
13	Temperature uncertainty	U=0.59℃
14	Frequency Error	U=53.50Hz
15	Frequency Drift	U=0.64kHz

4. Product Information And Test Setup

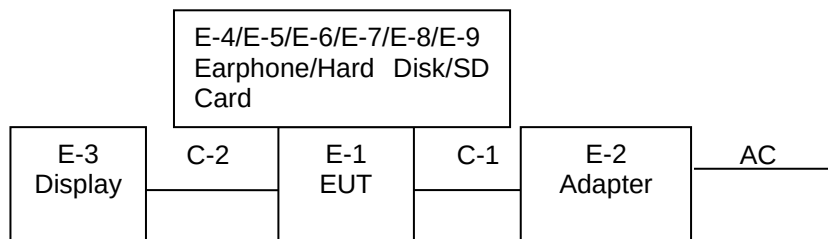
4.1 Product Information

Model/Type Reference:	TravelLite TL15-43M TravelLite TL15-43M-G2
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/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth) 802.11ac/ax(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n/ax(HT20); 5190-5230MHz for 802.11n/ax(HT40); 5210MHz for 802.11 ac/ax80; 5745-5825 MHz for 802.11a/n/ax(HT20); 5755-5795 MHz for 802.11n/ax(HT40); 5775MHz for 802.11 ac/ax80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40): MCS0-MCS15; 802.11ac(VHT20): MCS0-MCS8 802.11ac(VHT40/VHT80): MCS0-MCS9 802.11ax (HE 20/HE 40/HE 80): MCS0~MCS11
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac OFDMA with BPSK / BPSK_DCM /QPSK /QPSK_DCM /QAM16 /QAM16_DCM /QAM64 /QAM256 /QAM1024 for 802.11ax
Number Of Channel	4 channels for 802.11a/n20/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ax40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80/ax80 in the 5210MHz band ; 5 channels for 802.11a/n20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ax40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80/ax80 in the 5775MHz band
Antenna installation:	Internal antenna*2
Antenna Gain:	WIFI(5.1GHz): Antenna A: 2.36 dBi, Antenna B: 2.1 dBi WIFI(5.8GHz): Antenna A: 2.78 dBi, Antenna B: 2.27 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 20V from adapter or DC 11.4V from battery
Adapter 1:	MODEL: PA-1650-58 INPUT: 100-240V~1.6A 50/60Hz OUTPUT: 5.0V ---3.0A / 9.0V ---3.0A / 12.0V ---3.0A 5.0V/15.0W 15.0V ---3.0A / 20.0V ---3.25A 20.0V/65.0W
Adapter 2:	MODEL: ADP-65KE D INPUT: 100-240V~1.7A 50/60Hz OUTPUT: 5.0V ---3.0A, 15.0W / 9.0V ---3.0A / 12.0V ---3.0A 15.0V ---3.0A / 20.0V ---3.25A, 65.0W

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 and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Notebook		TravelLite TL15-43M	---	EUT
E-2	Adapter	---	PA-1650-58/ADP-65KE D	---	Auxiliary
E-3	Display	Xiaomi	L43M7-ES	---	Auxiliary
E-4	Earphone	SONY	IER-M7	---	Auxiliary
E-5	Hard disk	UGREEN	CM347	---	Auxiliary
E-6	Hard disk	WD	SN770	---	Auxiliary
E-7	Hard disk	Samsung	990PRO	---	Auxiliary
E-8	Hard disk	WD	WD Elements SE	---	Auxiliary
E-9	SD card	SanDisk	32G	---	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	---	---	1m	DC cable unshielded
C-2	---	---	0.8m	HDMI 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/ax(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/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

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

5.8G

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

802.11ac/ax 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/ ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20/ ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40/ ax 40 CH38/ CH 46 802.11n/ ac40/ ax 40 CH 151 / CH 159
Mode 3	802.11 ac80/ ax80 CH 42/CH 155
Mode 4	Link mode (Conducted emission & Radiated emission)

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We're testing antenna A data.
- (3) This product does not support RU mode.

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	phwfw02372_22.10.0.7tools		
Parameters	DEF	DEF	DEF

4.7 Antenna

5.1G

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	Internal antenna	2.36	N/A
B	N/A	N/A	Internal antenna	2.10	N/A

1)For power spectral density(PSD) measurements,
Array Gain= $10\log(NANT/NSS)$ dB= $10\log(2/1)$ =3.01dB,
So the directional gain for PSD is 5.24 dBi

2)For power measurements,
The Array gain=0 dB for $NANT \leq 4$,
So the directional gain for Power measurements is 2.36 dBi

5.8G

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	Internal antenna	2.78	N/A
B	N/A	N/A	Internal antenna	2.27	N/A

1)For power spectral density(PSD) measurements,
Array Gain= $10\log(NANT/NSS)$ dB= $10\log(2/1)$ =3.01dB,
So the directional gain for PSD is 5.54 dB

2)For power measurements,
The Array gain=0 dB for $NANT \leq 4$,
So the directional gain for Power measurements is 2.78 dBi

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

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

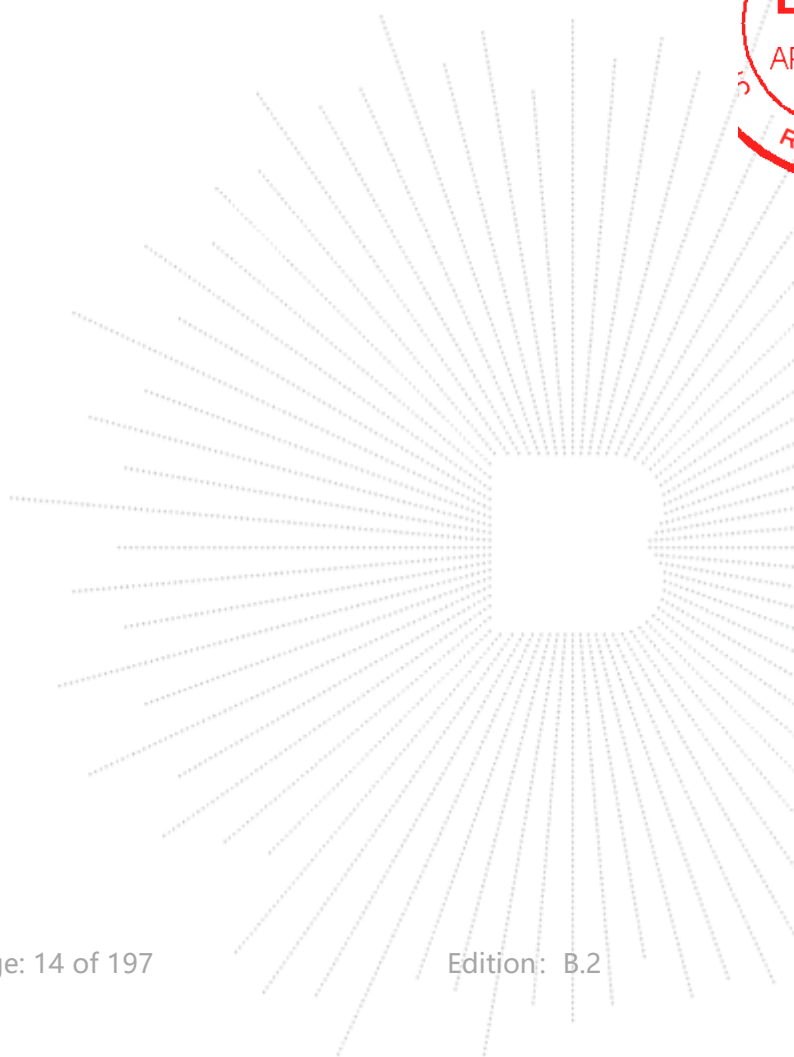
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 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

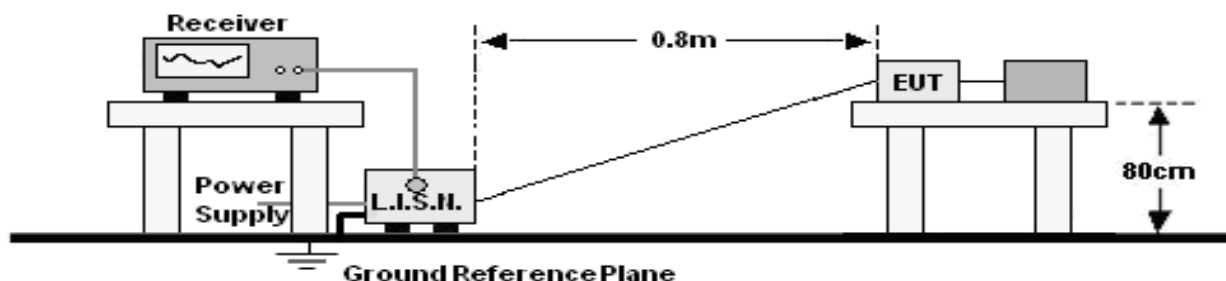
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

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	ESR3	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_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 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:

- *Decreasing linearly with logarithm of frequency.
- 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

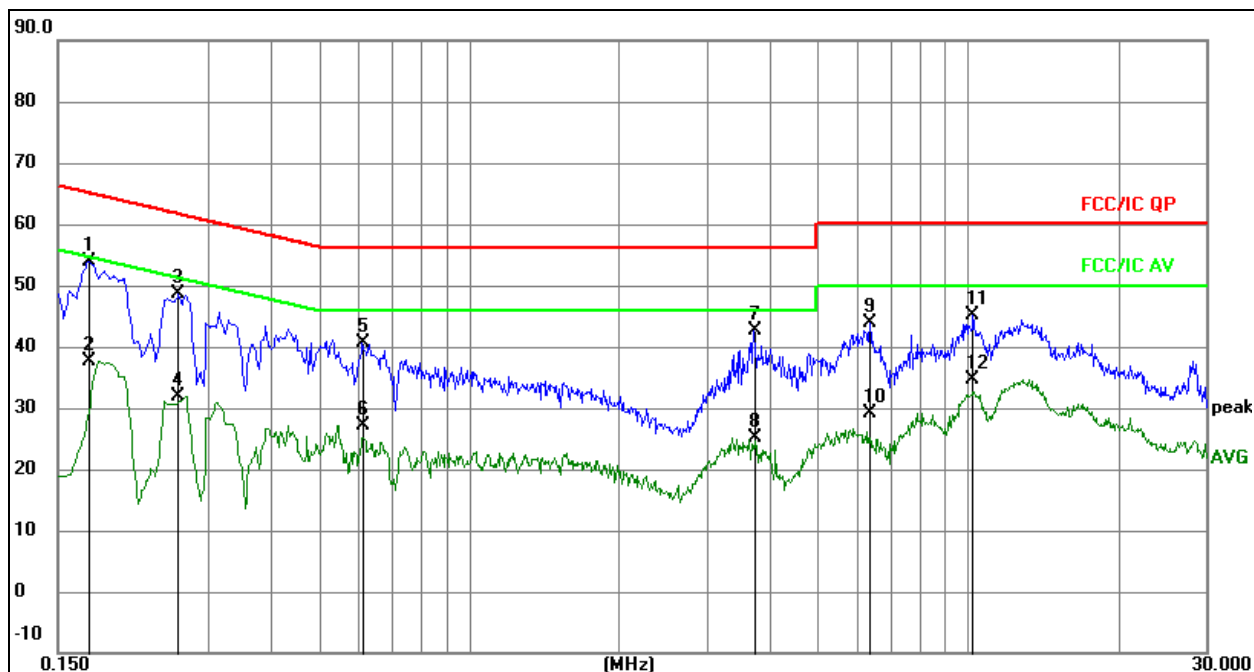
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
- 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:	24.3 °C	Relative Humidity:	53%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4(Adapter 1)	Polarization:	L

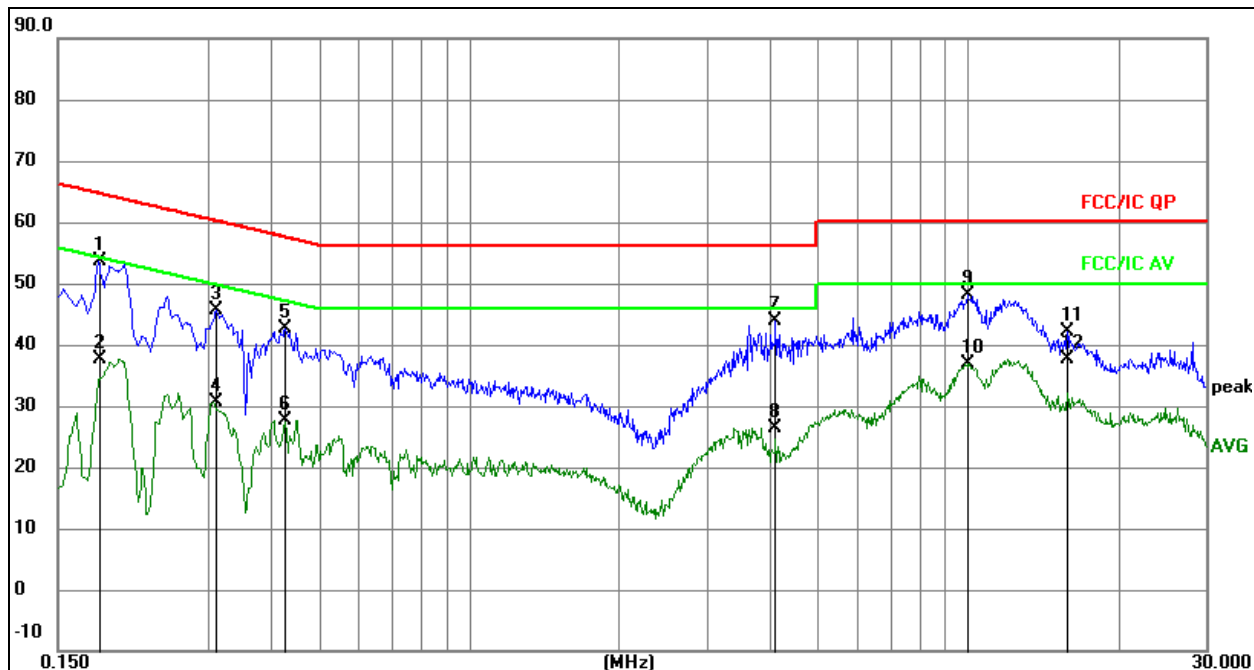


Remark:

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. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1722	33.87	20.07	53.94	64.85	-10.91	QP
2		0.1722	17.60	20.07	37.67	54.85	-17.18	AVG
3		0.2615	28.61	20.07	48.68	61.38	-12.70	QP
4		0.2615	11.85	20.07	31.92	51.38	-19.46	AVG
5		0.6108	20.47	20.09	40.56	56.00	-15.44	QP
6		0.6108	7.10	20.09	27.19	46.00	-18.81	AVG
7		3.7198	22.48	20.13	42.61	56.00	-13.39	QP
8		3.7198	5.04	20.13	25.17	46.00	-20.83	AVG
9		6.3520	23.61	20.16	43.77	60.00	-16.23	QP
10		6.3520	9.00	20.16	29.16	50.00	-20.84	AVG
11		10.2332	24.84	20.18	45.02	60.00	-14.98	QP
12		10.2332	14.41	20.18	34.59	50.00	-15.41	AVG

Temperature:	24.3 °C	Relative Humidity:	53%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4(Adapter 1)	Polarization:	N

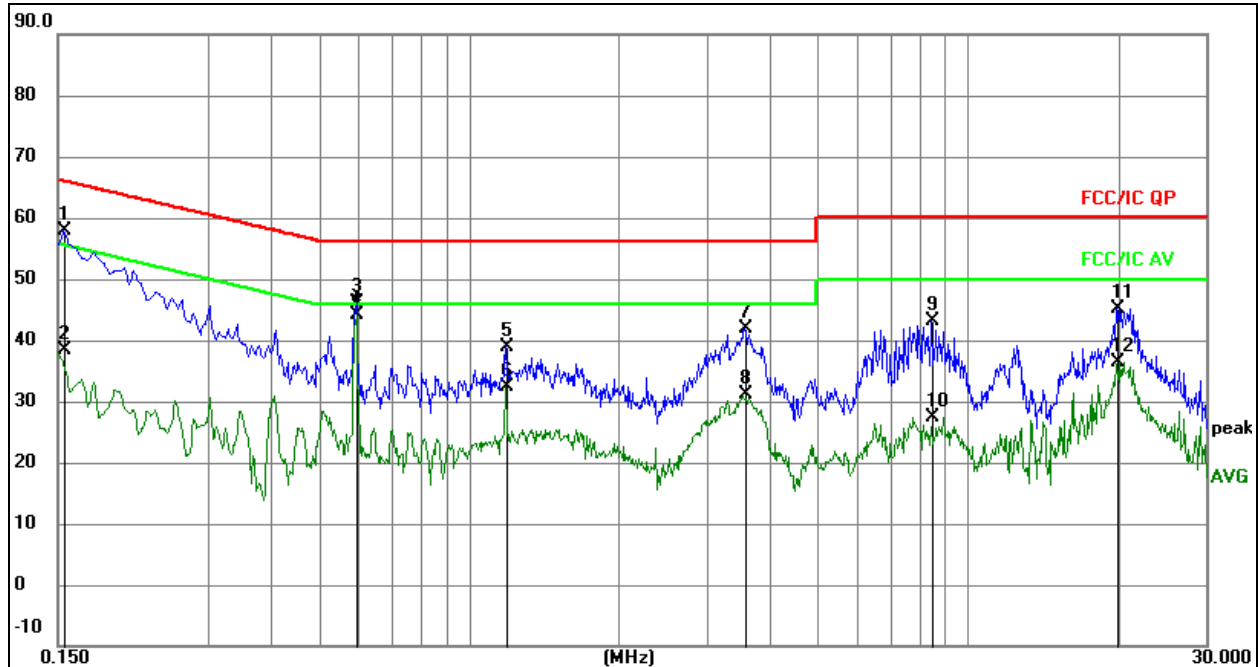


Remark:

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. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1806	33.56	20.07	53.63	64.46	-10.83	QP
2		0.1806	17.48	20.07	37.55	54.46	-16.91	AVG
3		0.3116	25.65	20.07	45.72	59.93	-14.21	QP
4		0.3116	10.58	20.07	30.65	49.93	-19.28	AVG
5		0.4282	22.58	20.08	42.66	57.29	-14.63	QP
6		0.4282	7.65	20.08	27.73	47.29	-19.56	AVG
7		4.1137	23.71	20.14	43.85	56.00	-12.15	QP
8		4.1137	6.29	20.14	26.43	46.00	-19.57	AVG
9		9.9657	28.02	20.17	48.19	60.00	-11.81	QP
10		9.9657	16.76	20.17	36.93	50.00	-13.07	AVG
11		15.8014	21.92	20.31	42.23	60.00	-17.77	QP
12		15.8014	17.29	20.31	37.60	50.00	-12.40	AVG

Temperature:	24.3 °C	Relative Humidity:	53%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4(Adapter 2)	Polarization:	L

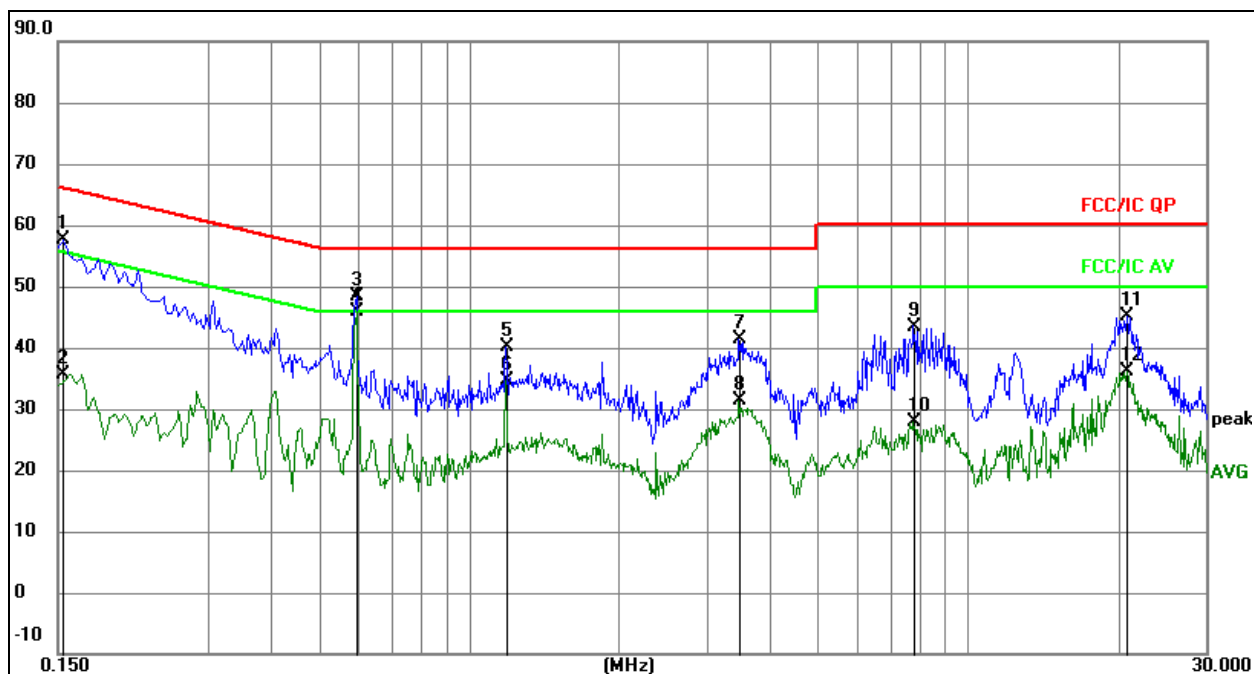


Remark:

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. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1545	37.93	20.07	58.00	65.75	-7.75	QP
2		0.1545	18.21	20.07	38.28	55.75	-17.47	AVG
3		0.5955	26.04	20.08	46.12	56.00	-9.88	QP
4	*	0.5955	24.05	20.08	44.13	46.00	-1.87	AVG
5		1.1895	18.91	20.09	39.00	56.00	-17.00	QP
6		1.1895	12.35	20.09	32.44	46.00	-13.56	AVG
7		3.5655	21.64	20.13	41.77	56.00	-14.23	QP
8		3.5655	11.00	20.13	31.13	46.00	-14.87	AVG
9		8.4614	23.03	20.16	43.19	60.00	-16.81	QP
10		8.4614	7.14	20.16	27.30	50.00	-22.70	AVG
11		19.9095	24.83	20.33	45.16	60.00	-14.84	QP
12		19.9095	16.09	20.33	36.42	50.00	-13.58	AVG

Temperature:	24.3 °C	Relative Humidity:	53%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4(Adapter 2)	Polarization:	N



Remark:

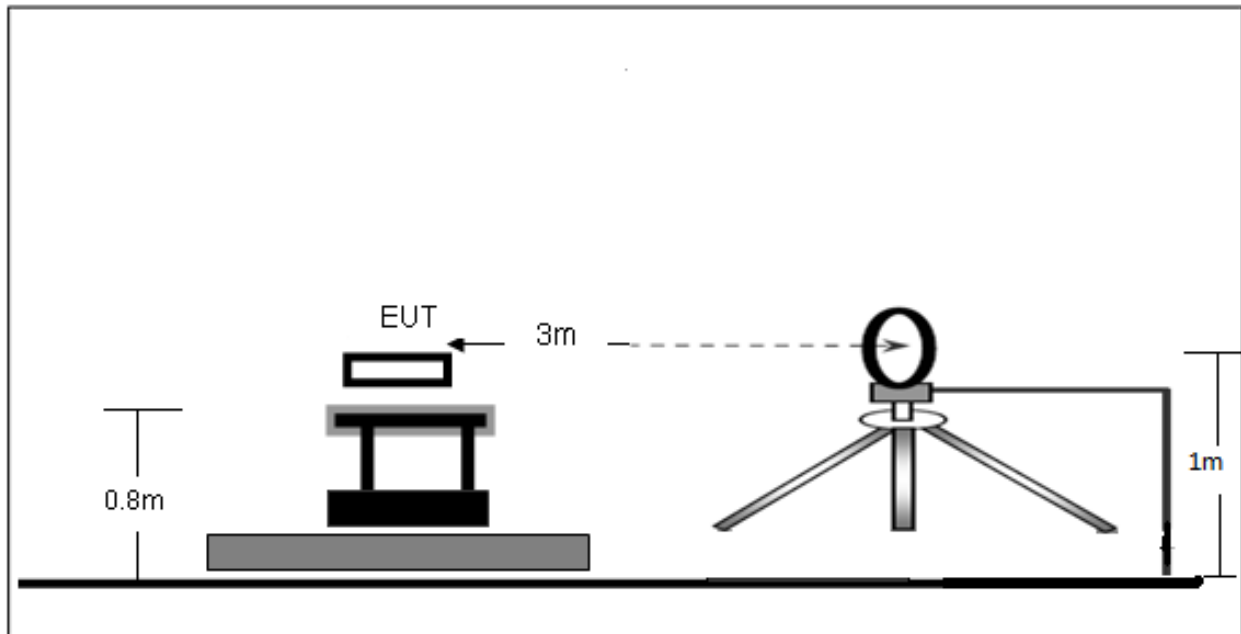
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	37.66	20.07	57.73	65.79	-8.06	QP
2		0.1539	15.68	20.07	35.75	55.79	-20.04	AVG
3		0.5948	28.21	20.08	48.29	56.00	-7.71	QP
4	*	0.5948	25.74	20.08	45.82	46.00	-0.18	AVG
5		1.1844	20.07	20.09	40.16	56.00	-15.84	QP
6		1.1844	14.43	20.09	34.52	46.00	-11.48	AVG
7		3.4722	21.25	20.13	41.38	56.00	-14.62	QP
8		3.4722	11.35	20.13	31.48	46.00	-14.52	AVG
9		7.7689	23.34	20.16	43.50	60.00	-16.50	QP
10		7.7689	7.75	20.16	27.91	50.00	-22.09	AVG
11		20.8137	24.74	20.32	45.06	60.00	-14.94	QP
12		20.8137	15.89	20.32	36.21	50.00	-13.79	AVG

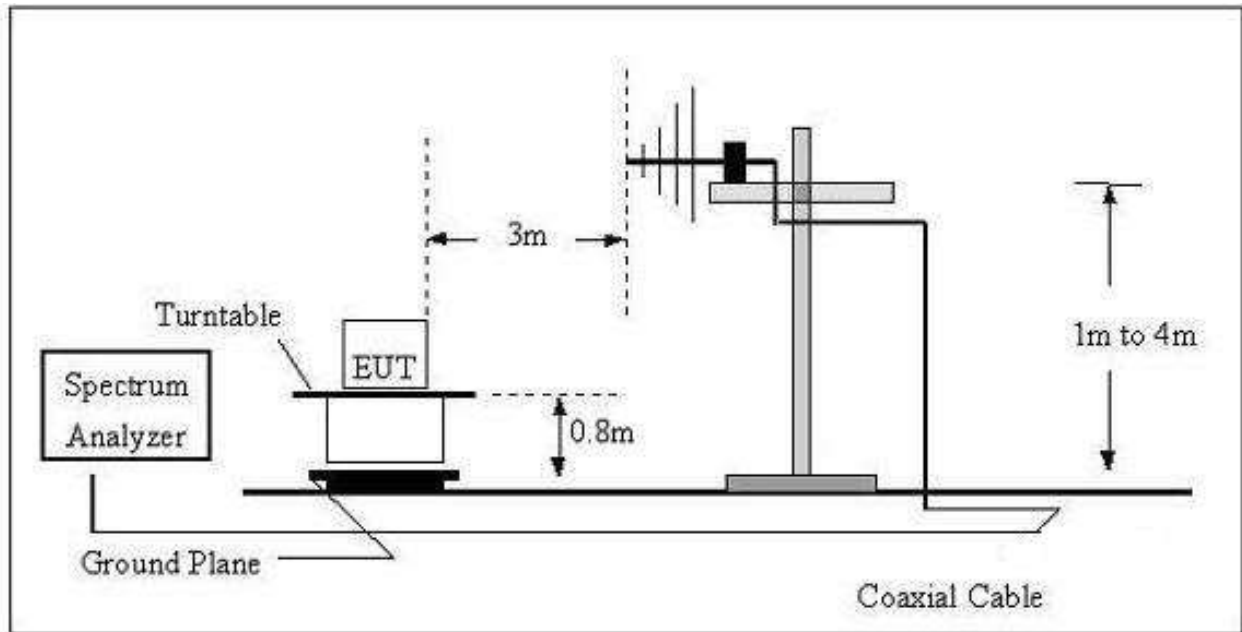
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

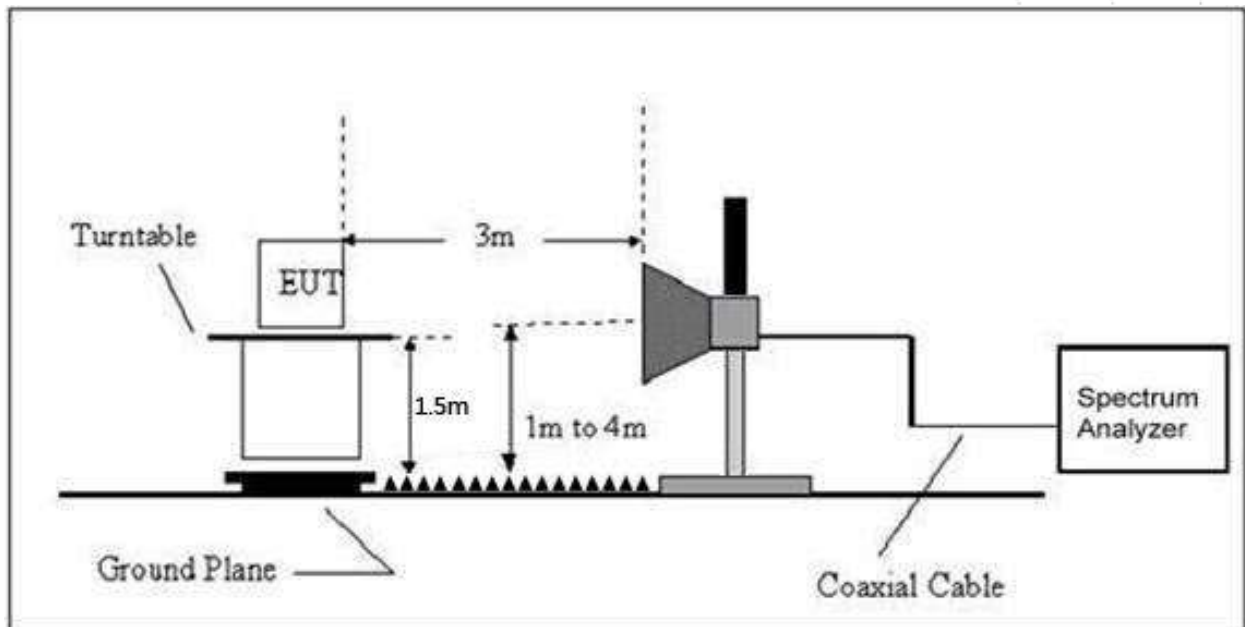
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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 $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , 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°C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz, DC 11.4V
Test Mode:	Mode 4		

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

Note:

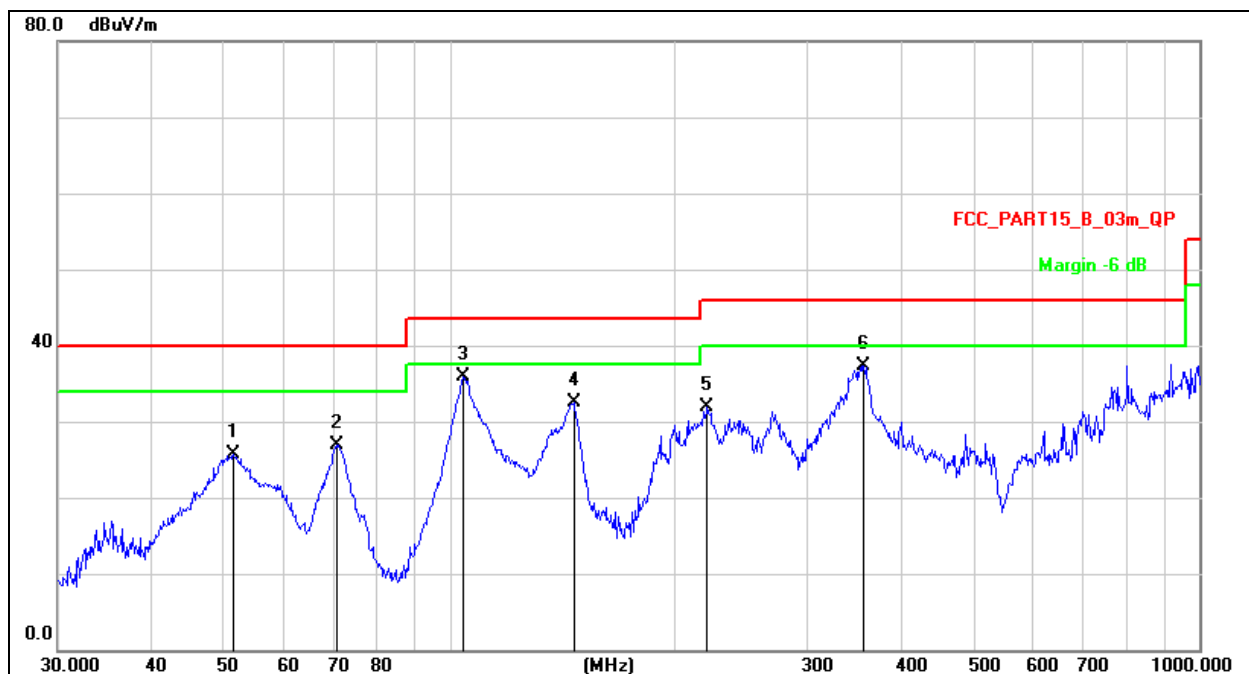
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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

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Temperature:	24.1 °C	Relative Humidity:	51%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4 (Adapter 1)	Polarization:	Horizontal



Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		51.4807	39.77	-14.10	25.67	40.00	-14.33	QP
2		70.8315	45.08	-18.15	26.93	40.00	-13.07	QP
3	*	104.1701	52.07	-16.22	35.85	43.50	-7.65	QP
4		146.3735	51.59	-19.18	32.41	43.50	-11.09	QP
5		220.6171	46.98	-15.13	31.85	46.00	-14.15	QP
6		356.6758	48.64	-11.39	37.25	46.00	-8.75	QP

Temperature:	24.1 °C	Relative Humidity:	51%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4 (Adapter 1)	Polarization:	Vertical

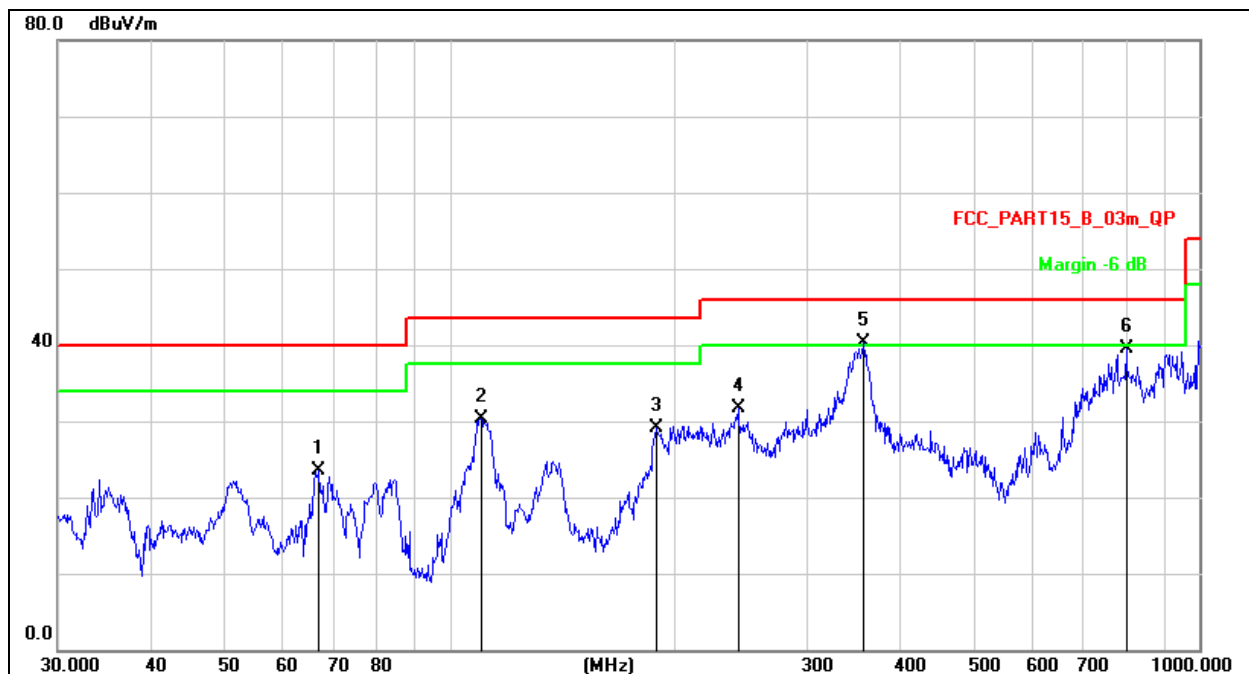


Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	50.5860	50.78	-13.98	36.80	40.00	-3.20	QP
2		104.1701	50.57	-16.22	34.35	43.50	-9.15	QP
3		146.3735	51.47	-19.18	32.29	43.50	-11.21	QP
4		211.5265	49.24	-15.39	33.85	43.50	-9.65	QP
5		356.6758	46.70	-11.39	35.31	46.00	-10.69	QP
6		798.9797	42.97	-4.41	38.56	46.00	-7.44	QP

Temperature:	24.1 °C	Relative Humidity:	51%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4 (Adapter 2)	Polarization:	Horizontal

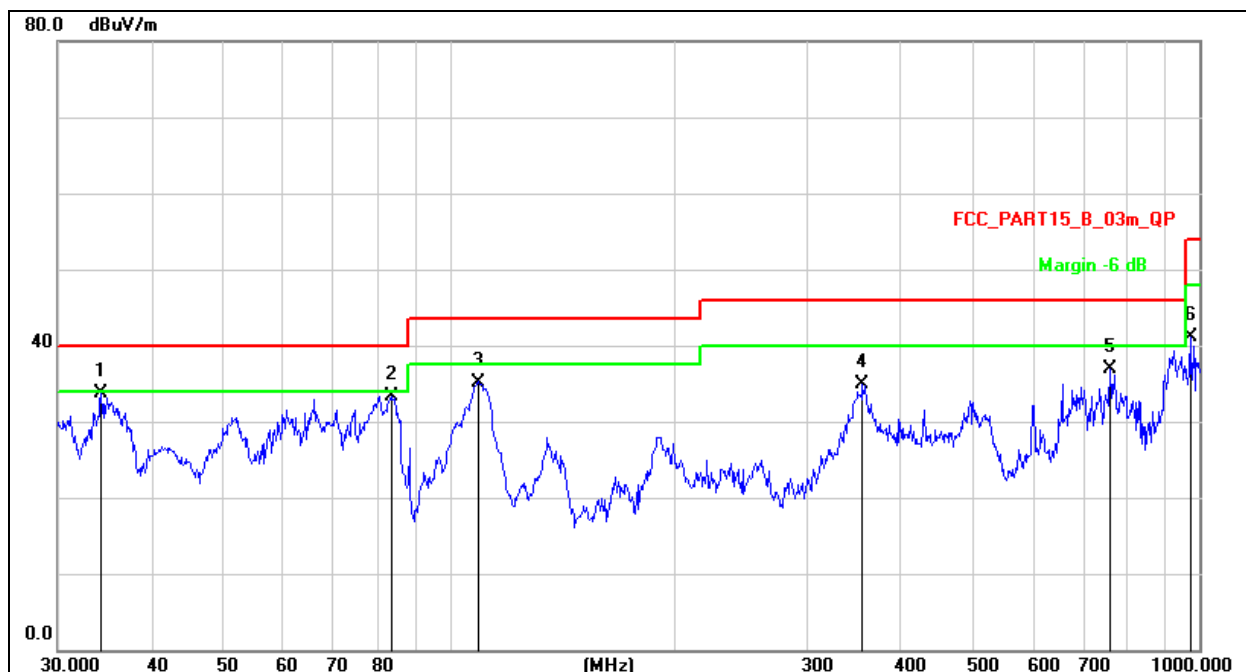


Remark:

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	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		66.9669	40.63	-17.17	23.46	40.00	-16.54	QP
2		110.1816	47.04	-16.64	30.40	43.50	-13.10	QP
3		188.4125	45.75	-16.58	29.17	43.50	-14.33	QP
4		242.5253	46.12	-14.50	31.62	46.00	-14.38	QP
5	*	356.6758	51.69	-11.39	40.30	46.00	-5.70	QP
6		798.9797	43.82	-4.41	39.41	46.00	-6.59	QP

Temperature:	24.1 °C	Relative Humidity:	51%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4 (Adapter 2)	Polarization:	Vertical

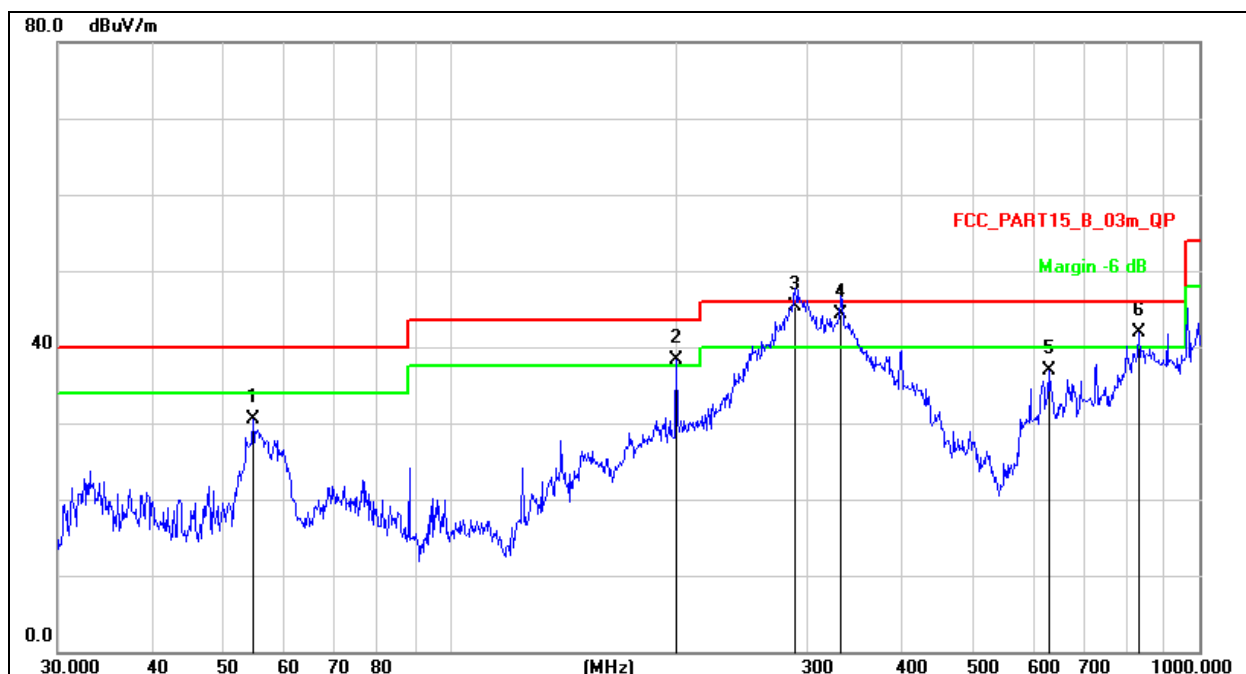


Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	34.2760	49.57	-15.82	33.75	40.00	-6.25	QP
2		83.5222	52.32	-18.92	33.40	40.00	-6.60	QP
3		109.0286	51.76	-16.56	35.20	43.50	-8.30	QP
4		355.4273	46.28	-11.41	34.87	46.00	-11.13	QP
5		760.7036	41.84	-4.86	36.98	46.00	-9.02	QP
6		972.3374	43.82	-2.68	41.14	54.00	-12.86	QP

Temperature:	24.1 °C	Relative Humidity:	51%RH
Pressure:	101KPa	Test Voltage:	DC 11.4V
Test Mode:	Mode 4	Polarization:	Horizontal

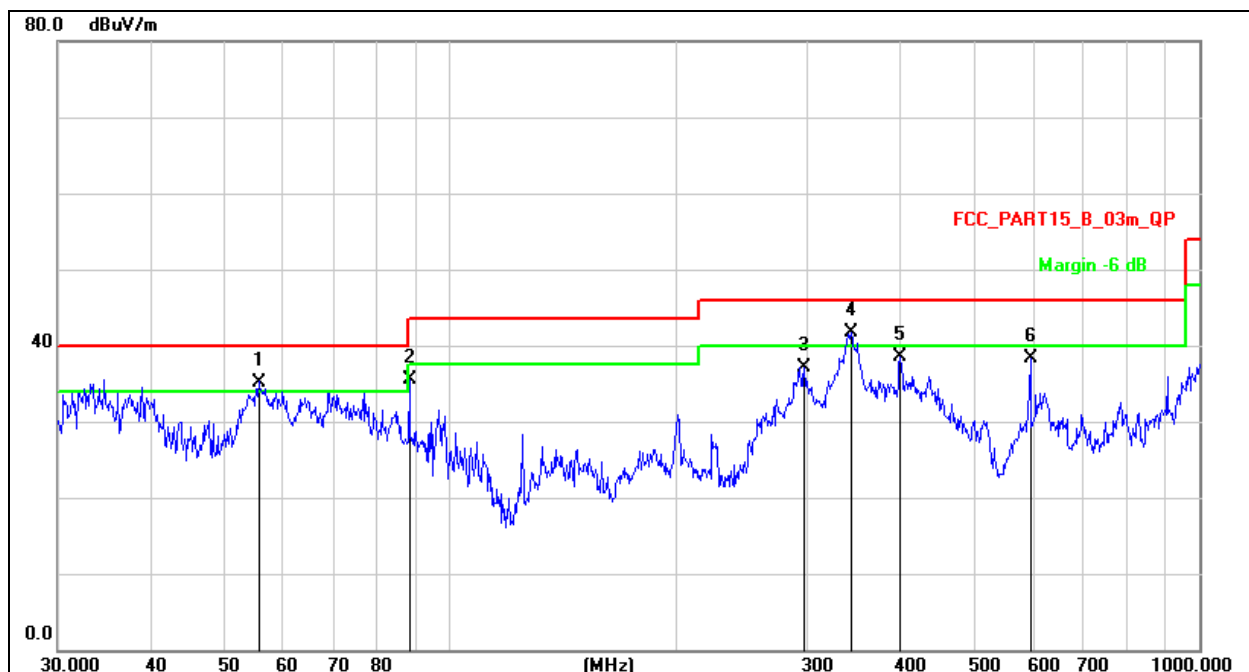


Remark:

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	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		54.6428	45.13	-14.53	30.60	40.00	-9.40	QP
2	!	200.6880	54.02	-15.70	38.32	43.50	-5.18	QP
3	*	289.0020	58.77	-13.47	45.30	46.00	-0.70	QP
4	!	332.5187	56.40	-12.10	44.30	46.00	-1.70	QP
5		629.4772	43.32	-6.51	36.81	46.00	-9.19	QP
6	!	830.4002	46.05	-4.14	41.91	46.00	-4.09	QP

Temperature:	24.1 °C	Relative Humidity:	51%RH
Pressure:	101KPa	Test Voltage:	DC 11.4V
Test Mode:	Mode 4	Polarization:	Vertical



Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	55.6094	49.86	-14.66	35.20	40.00	-4.80	QP
2		88.3421	53.30	-17.79	35.51	43.50	-7.99	QP
3		297.2241	50.38	-13.30	37.08	46.00	-8.92	QP
4	*	343.1800	53.47	-11.72	41.75	46.00	-4.25	QP
5		399.0302	49.33	-10.85	38.48	46.00	-7.52	QP
6		595.1329	45.58	-7.35	38.23	46.00	-7.77	QP

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☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

All the modes has been tested and the worst result 802.11a recorded as below:

Test mode: 802.11a Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.62	H	64.62	74	47.66	54
5149.45	V	57.55	74	41.53	54

Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.26	H	45.56	74	35.70	54
5300.17	V	41.22	74	28.85	54

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp

Test Mode:	TX(5.1G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.163	70.12	-20.73	49.39	68.20	-18.81	PK
Vertical	4434.163	59.02	-20.73	38.29	54.00	-15.71	AV
Vertical	10360.068	61.91	-9.36	52.55	68.20	-15.65	PK
Vertical	10360.068	49.38	-9.36	40.02	54.00	-13.98	AV
Vertical	15540.135	64.93	-7.84	57.09	74.00	-16.91	PK
Vertical	15540.135	49.27	-7.84	41.43	54.00	-12.57	AV
Horizontal	4434.035	74.40	-20.73	53.67	68.20	-14.53	PK
Horizontal	4434.035	59.07	-20.73	38.34	54.00	-15.66	AV
Horizontal	10360.082	63.85	-9.36	54.49	68.20	-13.71	PK
Horizontal	10360.082	49.61	-9.36	40.25	54.00	-13.75	AV
Horizontal	15540.148	62.57	-7.84	54.73	74.00	-19.27	PK
Horizontal	15540.148	49.85	-7.84	42.01	54.00	-11.99	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.135	72.28	-20.42	51.87	74.00	-22.13	PK
Vertical	4592.135	59.93	-20.42	39.51	54.00	-14.49	AV
Vertical	10400.098	63.98	-9.30	54.68	68.20	-13.52	PK
Vertical	10400.098	49.99	-9.30	40.69	54.00	-13.31	AV
Vertical	15600.067	62.14	-7.82	54.32	74.00	-19.68	PK
Vertical	15600.067	49.53	-7.82	41.71	54.00	-12.29	AV
Horizontal	4592.136	72.09	-20.42	51.67	74.00	-22.33	PK
Horizontal	4592.136	59.10	-20.42	38.68	54.00	-15.32	AV
Horizontal	10400.043	63.10	-9.30	53.80	68.20	-14.40	PK
Horizontal	10400.043	49.10	-9.30	39.80	54.00	-14.20	AV
Horizontal	15600.167	64.75	-7.82	56.93	74.00	-17.07	PK
Horizontal	15600.167	49.46	-7.82	41.64	54.00	-12.36	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.101	70.87	-20.12	50.75	74.00	-23.25	PK
Vertical	4739.101	59.22	-20.12	39.10	54.00	-14.90	AV
Vertical	10480.025	63.45	-9.18	54.27	68.20	-13.93	PK
Vertical	10480.025	49.93	-9.18	40.75	54.00	-13.25	AV
Vertical	15720.122	60.91	-7.78	53.13	74.00	-20.87	PK
Vertical	15720.122	49.83	-7.78	42.05	54.00	-11.95	AV
Horizontal	4739.066	72.30	-20.12	52.17	74.00	-21.83	PK
Horizontal	4739.066	59.36	-20.12	39.24	54.00	-14.76	AV
Horizontal	10480.005	64.69	-9.18	55.51	68.20	-12.69	PK
Horizontal	10480.005	49.38	-9.18	40.20	54.00	-13.80	AV
Horizontal	15720.161	61.85	-7.78	54.07	74.00	-19.93	PK
Horizontal	15720.161	49.44	-7.78	41.66	54.00	-12.34	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.

The worst case is Antenna A

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.045	73.58	-20.73	52.85	68.20	-15.35	PK
Vertical	4434.045	59.37	-20.73	38.64	54.00	-15.36	AV
Vertical	10360.106	63.19	-9.36	53.83	68.20	-14.37	PK
Vertical	10360.106	49.61	-9.36	40.25	54.00	-13.75	AV
Vertical	15540.164	61.20	-7.84	53.36	74.00	-20.64	PK
Vertical	15540.164	49.10	-7.84	41.26	54.00	-12.74	AV
Horizontal	4434.032	74.77	-20.73	54.04	68.20	-14.16	PK
Horizontal	4434.032	59.95	-20.73	39.22	54.00	-14.78	AV
Horizontal	10360.101	62.63	-9.36	53.27	68.20	-14.93	PK
Horizontal	10360.101	49.16	-9.36	39.80	54.00	-14.20	AV
Horizontal	15540.090	60.02	-7.84	52.18	74.00	-21.82	PK
Horizontal	15540.090	49.18	-7.84	41.34	54.00	-12.66	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.041	73.16	-20.42	52.74	74.00	-21.26	PK
Vertical	4592.041	59.90	-20.42	39.48	54.00	-14.52	AV
Vertical	10400.186	63.80	-9.30	54.50	68.20	-13.70	PK
Vertical	10400.186	49.91	-9.30	40.61	54.00	-13.39	AV
Vertical	15600.187	64.00	-7.82	56.18	74.00	-17.82	PK
Vertical	15600.187	49.56	-7.82	41.74	54.00	-12.26	AV
Horizontal	4592.090	72.81	-20.42	52.39	74.00	-21.61	PK
Horizontal	4592.090	59.50	-20.42	39.08	54.00	-14.92	AV
Horizontal	10400.169	62.35	-9.30	53.05	68.20	-15.15	PK
Horizontal	10400.169	49.00	-9.30	39.70	54.00	-14.30	AV
Horizontal	15600.097	63.24	-7.82	55.42	74.00	-18.58	PK
Horizontal	15600.097	49.99	-7.82	42.17	54.00	-11.83	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.187	74.98	-20.12	54.86	74.00	-19.14	PK
Vertical	4739.187	59.80	-20.12	39.68	54.00	-14.32	AV
Vertical	10480.198	63.27	-9.18	54.09	68.20	-14.11	PK
Vertical	10480.198	49.38	-9.18	40.20	54.00	-13.80	AV
Vertical	15720.024	63.42	-7.78	55.64	74.00	-18.36	PK
Vertical	15720.024	49.40	-7.78	41.62	54.00	-12.38	AV
Horizontal	4739.189	73.23	-20.12	53.11	74.00	-20.89	PK
Horizontal	4739.189	59.62	-20.12	39.50	54.00	-14.50	AV
Horizontal	10480.140	63.05	-9.18	53.87	68.20	-14.33	PK
Horizontal	10480.140	49.12	-9.18	39.94	54.00	-14.06	AV
Horizontal	15720.019	62.62	-7.78	54.84	74.00	-19.16	PK
Horizontal	15720.019	49.88	-7.78	42.10	54.00	-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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.009	73.92	-20.73	53.19	68.20	-15.01	PK
Vertical	4434.009	59.06	-20.73	38.33	54.00	-15.67	AV
Vertical	10380.130	60.23	-9.33	50.90	68.20	-17.30	PK
Vertical	10380.130	49.61	-9.33	40.28	54.00	-13.72	AV
Vertical	15570.148	64.47	-7.83	56.64	74.00	-17.36	PK
Vertical	15570.148	49.36	-7.83	41.53	54.00	-12.47	AV
Horizontal	4434.105	73.20	-20.73	52.47	74.00	-21.53	PK
Horizontal	4434.105	59.15	-20.73	38.41	54.00	-15.59	AV
Horizontal	10380.148	64.68	-9.33	55.35	68.20	-12.85	PK
Horizontal	10380.148	49.69	-9.33	40.36	54.00	-13.64	AV
Horizontal	15570.165	61.03	-7.83	53.20	74.00	-20.80	PK
Horizontal	15570.165	49.08	-7.83	41.25	54.00	-12.75	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.070	74.52	-20.12	54.39	68.20	-13.81	PK
Vertical	4739.070	59.18	-20.12	39.06	54.00	-14.94	AV
Vertical	10460.044	63.84	-9.21	54.63	68.20	-13.57	PK
Vertical	10460.044	49.02	-9.21	39.81	54.00	-14.19	AV
Vertical	15690.079	64.95	-7.79	57.16	74.00	-16.84	PK
Vertical	15690.079	49.74	-7.79	41.95	54.00	-12.05	AV
Horizontal	4739.084	72.67	-20.12	52.55	68.20	-15.65	PK
Horizontal	4739.084	59.53	-20.12	39.41	54.00	-14.59	AV
Horizontal	10460.010	63.23	-9.21	54.02	68.20	-14.18	PK
Horizontal	10460.010	49.23	-9.21	40.02	54.00	-13.98	AV
Horizontal	15690.127	63.50	-7.79	55.71	74.00	-18.29	PK
Horizontal	15690.127	49.15	-7.79	41.36	54.00	-12.64	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.147	74.55	-20.73	53.82	68.20	-14.38	PK
Vertical	4434.147	59.55	-20.73	38.82	54.00	-15.18	AV
Vertical	10360.037	61.99	-9.36	52.63	68.20	-15.57	PK
Vertical	10360.037	49.04	-9.36	39.68	54.00	-14.32	AV
Vertical	15540.054	62.15	-7.84	54.31	74.00	-19.69	PK
Vertical	15540.054	49.79	-7.84	41.95	54.00	-12.05	AV
Horizontal	4434.046	71.91	-20.73	51.18	68.20	-17.02	PK
Horizontal	4434.046	59.28	-20.73	38.55	54.00	-15.45	AV
Horizontal	10360.097	60.83	-9.36	51.47	68.20	-16.73	PK
Horizontal	10360.097	49.29	-9.36	39.93	54.00	-14.07	AV
Horizontal	15540.191	63.94	-7.84	56.10	74.00	-17.90	PK
Horizontal	15540.191	49.10	-7.84	41.26	54.00	-12.74	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.148	72.42	-20.42	52.01	74.00	-21.99	PK
Vertical	4592.148	59.15	-20.42	38.73	54.00	-15.27	AV
Vertical	10400.053	62.16	-9.30	52.86	68.20	-15.34	PK
Vertical	10400.053	49.80	-9.30	40.50	54.00	-13.50	AV
Vertical	15600.061	61.21	-7.82	53.39	74.00	-20.61	PK
Vertical	15600.061	49.98	-7.82	42.16	54.00	-11.84	AV
Horizontal	4592.086	73.03	-20.42	52.61	74.00	-21.39	PK
Horizontal	4592.086	59.51	-20.42	39.10	54.00	-14.90	AV
Horizontal	10400.091	64.51	-9.30	55.21	68.20	-12.99	PK
Horizontal	10400.091	49.63	-9.30	40.33	54.00	-13.67	AV
Horizontal	15600.037	64.07	-7.82	56.25	74.00	-17.75	PK
Horizontal	15600.037	49.58	-7.82	41.76	54.00	-12.24	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.019	72.53	-20.12	52.40	74.00	-21.60	PK
Vertical	4739.019	59.43	-20.12	39.31	54.00	-14.69	AV
Vertical	10480.129	64.23	-9.18	55.05	68.20	-13.15	PK
Vertical	10480.129	49.93	-9.18	40.75	54.00	-13.25	AV
Vertical	15720.172	62.56	-7.78	54.78	74.00	-19.22	PK
Vertical	15720.172	49.06	-7.78	41.28	54.00	-12.72	AV
Horizontal	4739.060	73.74	-20.12	53.62	74.00	-20.38	PK
Horizontal	4739.060	59.96	-20.12	39.84	54.00	-14.16	AV
Horizontal	10480.156	61.42	-9.18	52.24	68.20	-15.96	PK
Horizontal	10480.156	49.64	-9.18	40.46	54.00	-13.54	AV
Horizontal	15720.121	62.89	-7.78	55.11	74.00	-18.89	PK
Horizontal	15720.121	49.81	-7.78	42.03	54.00	-11.97	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.042	71.96	-20.73	51.23	68.20	-16.97	PK
Vertical	4434.042	59.56	-20.73	38.82	54.00	-15.18	AV
Vertical	10380.063	62.81	-9.33	53.48	68.20	-14.72	PK
Vertical	10380.063	49.79	-9.33	40.46	54.00	-13.54	AV
Vertical	15570.076	61.80	-7.83	53.97	74.00	-20.03	PK
Vertical	15570.076	49.11	-7.83	41.28	54.00	-12.72	AV
Horizontal	4434.082	73.70	-20.73	52.97	74.00	-21.03	PK
Horizontal	4434.082	59.69	-20.73	38.96	54.00	-15.04	AV
Horizontal	10380.187	64.40	-9.33	55.07	68.20	-13.13	PK
Horizontal	10380.187	49.80	-9.33	40.47	54.00	-13.53	AV
Horizontal	15570.167	61.86	-7.83	54.03	74.00	-19.97	PK
Horizontal	15570.167	49.95	-7.83	42.12	54.00	-11.88	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.125	74.86	-20.12	54.74	68.20	-13.46	PK
Vertical	4739.125	59.73	-20.12	39.61	54.00	-14.39	AV
Vertical	10460.024	64.05	-9.21	54.84	68.20	-13.36	PK
Vertical	10460.024	49.97	-9.21	40.76	54.00	-13.24	AV
Vertical	15690.197	60.69	-7.79	52.90	74.00	-21.10	PK
Vertical	15690.197	49.58	-7.79	41.79	54.00	-12.21	AV
Horizontal	4739.032	73.72	-20.12	53.60	68.20	-14.60	PK
Horizontal	4739.032	59.49	-20.12	39.37	54.00	-14.63	AV
Horizontal	10460.018	64.31	-9.21	55.10	68.20	-13.10	PK
Horizontal	10460.018	49.84	-9.21	40.63	54.00	-13.37	AV
Horizontal	15690.093	64.05	-7.79	56.26	74.00	-17.74	PK
Horizontal	15690.093	49.63	-7.79	41.84	54.00	-12.16	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac 80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.132	71.55	-20.73	50.82	68.20	-17.38	PK
Vertical	4434.132	59.70	-20.73	38.97	54.00	-15.03	AV
Vertical	10420.170	62.59	-9.27	53.32	68.20	-14.88	PK
Vertical	10420.170	49.91	-9.27	40.64	54.00	-13.36	AV
Vertical	15630.121	64.87	-7.81	57.06	74.00	-16.94	PK
Vertical	15630.121	49.11	-7.81	41.30	54.00	-12.70	AV
Horizontal	4434.002	73.53	-20.73	52.80	68.20	-15.40	PK
Horizontal	4434.002	59.95	-20.73	39.22	54.00	-14.78	AV
Horizontal	10420.141	40.16	9.27	49.43	68.20	-18.77	PK
Horizontal	10420.141	29.09	9.27	38.36	54.00	-15.64	AV
Horizontal	15630.189	64.85	-7.81	57.04	74.00	-16.96	PK
Horizontal	15630.189	49.43	-7.81	41.62	54.00	-12.38	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.000	73.30	-20.73	52.56	68.20	-15.64	PK
Vertical	4434.000	59.65	-20.73	38.92	54.00	-15.08	AV
Vertical	10360.138	64.10	-9.36	54.74	68.20	-13.46	PK
Vertical	10360.138	49.08	-9.36	39.72	54.00	-14.28	AV
Vertical	15540.190	64.54	-7.84	56.70	74.00	-17.30	PK
Vertical	15540.190	49.69	-7.84	41.85	54.00	-12.15	AV
Horizontal	4434.053	71.96	-20.73	51.23	68.20	-16.97	PK
Horizontal	4434.053	59.96	-20.73	39.23	54.00	-14.77	AV
Horizontal	10360.168	62.82	-9.36	53.46	68.20	-14.74	PK
Horizontal	10360.168	49.44	-9.36	40.08	54.00	-13.92	AV
Horizontal	15540.065	60.36	-7.84	52.52	74.00	-21.48	PK
Horizontal	15540.065	49.62	-7.84	41.78	54.00	-12.22	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.170	70.35	-20.42	49.94	74.00	-24.06	PK
Vertical	4592.170	59.28	-20.42	38.86	54.00	-15.14	AV
Vertical	10400.127	63.09	-9.30	53.79	68.20	-14.41	PK
Vertical	10400.127	49.77	-9.30	40.47	54.00	-13.53	AV
Vertical	15600.199	62.40	-7.82	54.58	74.00	-19.42	PK
Vertical	15600.199	49.33	-7.82	41.51	54.00	-12.49	AV
Horizontal	4592.173	71.65	-20.42	51.23	74.00	-22.77	PK
Horizontal	4592.173	59.56	-20.42	39.15	54.00	-14.85	AV
Horizontal	10400.130	60.87	-9.30	51.57	68.20	-16.63	PK
Horizontal	10400.130	49.85	-9.30	40.55	54.00	-13.45	AV
Horizontal	15600.119	64.77	-7.82	56.95	74.00	-17.05	PK
Horizontal	15600.119	49.16	-7.82	41.34	54.00	-12.66	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.135	73.33	-20.12	53.21	74.00	-20.79	PK
Vertical	4739.135	59.44	-20.12	39.32	54.00	-14.68	AV
Vertical	10480.121	63.34	-9.18	54.16	68.20	-14.04	PK
Vertical	10480.121	49.85	-9.18	40.67	54.00	-13.33	AV
Vertical	15720.106	64.15	-7.78	56.37	74.00	-17.63	PK
Vertical	15720.106	49.89	-7.78	42.11	54.00	-11.89	AV
Horizontal	4739.120	73.09	-20.12	52.97	74.00	-21.03	PK
Horizontal	4739.120	59.99	-20.12	39.87	54.00	-14.13	AV
Horizontal	10480.187	61.60	-9.18	52.42	68.20	-15.78	PK
Horizontal	10480.187	49.08	-9.18	39.90	54.00	-14.10	AV
Horizontal	15720.129	61.14	-7.78	53.36	74.00	-20.64	PK
Horizontal	15720.129	49.85	-7.78	42.07	54.00	-11.93	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.088	72.99	-20.73	52.26	68.20	-15.94	PK
Vertical	4434.088	59.71	-20.73	38.98	54.00	-15.02	AV
Vertical	10380.077	62.27	-9.33	52.94	68.20	-15.26	PK
Vertical	10380.077	49.29	-9.33	39.96	54.00	-14.04	AV
Vertical	15570.110	62.00	-7.83	54.17	74.00	-19.83	PK
Vertical	15570.110	49.95	-7.83	42.12	54.00	-11.88	AV
Horizontal	4434.039	72.10	-20.73	51.37	74.00	-22.63	PK
Horizontal	4434.039	59.57	-20.73	38.83	54.00	-15.17	AV
Horizontal	10380.199	60.62	-9.33	51.29	68.20	-16.91	PK
Horizontal	10380.199	49.06	-9.33	39.73	54.00	-14.27	AV
Horizontal	15570.149	60.19	-7.83	52.36	74.00	-21.64	PK
Horizontal	15570.149	49.88	-7.83	42.05	54.00	-11.95	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.051	74.82	-20.12	54.69	68.20	-13.51	PK
Vertical	4739.051	59.58	-20.12	39.46	54.00	-14.54	AV
Vertical	10460.132	61.10	-9.21	51.89	68.20	-16.31	PK
Vertical	10460.132	49.18	-9.21	39.97	54.00	-14.03	AV
Vertical	15690.103	64.90	-7.79	57.11	74.00	-16.89	PK
Vertical	15690.103	49.33	-7.79	41.54	54.00	-12.46	AV
Horizontal	4739.200	73.75	-20.12	53.63	68.20	-14.57	PK
Horizontal	4739.200	59.03	-20.12	38.91	54.00	-15.09	AV
Horizontal	10460.071	63.07	-9.21	53.86	68.20	-14.34	PK
Horizontal	10460.071	49.45	-9.21	40.24	54.00	-13.76	AV
Horizontal	15690.029	62.77	-7.79	54.98	74.00	-19.02	PK
Horizontal	15690.029	49.43	-7.79	41.64	54.00	-12.36	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ax 80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.046	70.78	-20.73	50.05	68.20	-18.15	PK
Vertical	4434.046	59.42	-20.73	38.69	54.00	-15.31	AV
Vertical	10420.099	63.47	-9.27	54.20	68.20	-14.00	PK
Vertical	10420.099	49.22	-9.27	39.95	54.00	-14.05	AV
Vertical	15630.183	61.70	-7.81	53.89	74.00	-20.11	PK
Vertical	15630.183	49.52	-7.81	41.71	54.00	-12.29	AV
Horizontal	4434.082	72.04	-20.73	51.31	68.20	-16.89	PK
Horizontal	4434.082	59.05	-20.73	38.31	54.00	-15.69	AV
Horizontal	10420.094	43.22	9.27	52.49	68.20	-15.71	PK
Horizontal	10420.094	29.18	9.27	38.45	54.00	-15.55	AV
Horizontal	15630.075	63.96	-7.81	56.15	74.00	-17.85	PK
Horizontal	15630.075	49.31	-7.81	41.50	54.00	-12.50	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 is MIMO Mode.

Test Mode:	TX (5.8G) -- 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.062	71.59	-20.24	51.34	74.00	-22.66	PK
Vertical	4679.062	59.80	-20.24	39.56	54.00	-14.44	AV
Vertical	11490.100	61.03	-8.79	52.24	68.20	-15.96	PK
Vertical	11490.100	49.00	-8.79	40.21	54.00	-13.79	AV
Vertical	17235.059	59.12	-3.18	55.94	68.20	-12.26	PK
Vertical	17235.059	44.76	-3.18	41.58	54.00	-12.42	AV
Horizontal	4679.060	74.43	-20.73	53.70	74.00	-20.30	PK
Horizontal	4679.060	59.51	-20.73	38.78	54.00	-15.22	AV
Horizontal	11490.003	63.62	-8.79	54.83	68.20	-13.37	PK
Horizontal	11490.003	49.23	-8.79	40.44	54.00	-13.56	AV
Horizontal	17235.032	59.02	-3.18	55.84	68.20	-12.36	PK
Horizontal	17235.032	44.32	-3.18	41.14	54.00	-12.86	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.167	71.83	-20.42	51.42	74.00	-22.58	PK
Vertical	4592.167	59.48	-20.42	39.07	54.00	-14.93	AV
Vertical	11570.109	60.59	-8.86	51.73	68.20	-16.47	PK
Vertical	11570.109	49.44	-8.86	40.58	54.00	-13.42	AV
Vertical	17355.170	56.97	-2.52	54.45	68.20	-13.75	PK
Vertical	17355.170	44.40	-2.52	41.88	54.00	-12.12	AV
Horizontal	4592.120	70.26	-20.42	49.85	74.00	-24.15	PK
Horizontal	4592.120	59.12	-20.42	38.70	54.00	-15.30	AV
Horizontal	11570.038	63.83	-8.86	54.97	68.20	-13.23	PK
Horizontal	11570.038	49.02	-8.86	40.16	54.00	-13.84	AV
Horizontal	17355.137	55.52	-2.52	53.00	68.20	-15.20	PK
Horizontal	17355.137	44.60	-2.52	42.08	54.00	-11.92	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.172	74.81	-18.93	55.88	68.20	-12.32	PK
Vertical	6039.172	59.32	-18.93	40.39	54.00	-13.61	AV
Vertical	11650.147	61.45	-8.92	52.53	74.00	-21.47	PK
Vertical	11650.147	49.98	-8.92	41.06	54.00	-12.94	AV
Vertical	17475.089	57.73	-1.86	55.87	68.20	-12.33	PK
Vertical	17475.089	44.94	-1.86	43.08	54.00	-10.92	AV
Horizontal	6039.116	72.95	-18.93	54.02	68.20	-14.18	PK
Horizontal	6039.116	59.39	-18.93	40.45	54.00	-13.55	AV
Horizontal	11650.023	60.01	-8.92	51.09	74.00	-22.91	PK
Horizontal	11650.023	49.64	-8.92	40.72	54.00	-13.28	AV
Horizontal	17475.198	57.92	-1.86	56.06	68.20	-12.14	PK
Horizontal	17475.198	44.04	-1.86	42.18	54.00	-11.82	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.
The worst case is Antenna A

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

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.181	71.08	-20.24	50.84	74.00	-23.16	PK
Vertical	4679.181	59.53	-20.24	39.29	54.00	-14.71	AV
Vertical	11490.085	63.32	-8.79	54.53	68.20	-13.67	PK
Vertical	11490.085	49.62	-8.79	40.83	54.00	-13.17	AV
Vertical	17235.049	59.74	-3.18	56.56	68.20	-11.64	PK
Vertical	17235.049	44.46	-3.18	41.28	54.00	-12.72	AV
Horizontal	4679.134	72.62	-20.24	52.38	74.00	-21.62	PK
Horizontal	4679.134	59.27	-20.24	39.03	54.00	-14.97	AV
Horizontal	11490.127	64.11	-8.79	55.32	68.20	-12.88	PK
Horizontal	11490.127	49.20	-8.79	40.41	54.00	-13.59	AV
Horizontal	17235.148	55.98	-3.18	52.80	68.20	-15.40	PK
Horizontal	17235.148	44.37	-3.18	41.19	54.00	-12.81	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.006	73.60	-20.42	53.19	74.00	-20.81	PK
Vertical	4592.006	59.14	-20.42	38.72	54.00	-15.28	AV
Vertical	11570.013	63.73	-8.86	54.87	68.20	-13.33	PK
Vertical	11570.013	49.09	-8.86	40.23	54.00	-13.77	AV
Vertical	17355.073	59.91	-2.52	57.39	68.20	-10.81	PK
Vertical	17355.073	44.14	-2.52	41.62	54.00	-12.38	AV
Horizontal	4592.045	71.40	-20.42	50.99	74.00	-23.01	PK
Horizontal	4592.045	59.38	-20.42	38.96	54.00	-15.04	AV
Horizontal	11570.081	64.45	-8.86	55.59	68.20	-12.61	PK
Horizontal	11570.081	49.49	-8.86	40.63	54.00	-13.37	AV
Horizontal	17355.193	55.44	-2.52	52.92	68.20	-15.28	PK
Horizontal	17355.193	44.86	-2.52	42.34	54.00	-11.66	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.099	71.73	-18.93	52.80	68.20	-15.40	PK
Vertical	6039.099	59.30	-18.93	40.37	54.00	-13.63	AV
Vertical	11650.044	60.56	-8.92	51.64	74.00	-22.36	PK
Vertical	11650.044	49.12	-8.92	40.20	54.00	-13.80	AV
Vertical	17475.130	57.05	-1.86	55.19	68.20	-13.01	PK
Vertical	17475.130	44.48	-1.86	42.62	54.00	-11.38	AV
Horizontal	6039.126	70.91	-18.93	51.98	68.20	-16.22	PK
Horizontal	6039.126	59.32	-18.93	40.39	54.00	-13.61	AV
Horizontal	11650.135	64.55	-8.92	55.63	74.00	-18.37	PK
Horizontal	11650.135	49.37	-8.92	40.45	54.00	-13.55	AV
Horizontal	17475.098	57.66	-1.86	55.80	68.20	-12.40	PK
Horizontal	17475.098	44.54	-1.86	42.68	54.00	-11.32	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 is MIMO Mode.

Test Mode:	TX (5.8G) -- 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.007	70.84	-20.24	50.60	74.00	-23.40	PK
Vertical	4679.007	59.68	-20.24	39.44	54.00	-14.56	AV
Vertical	11510.044	61.91	-8.81	53.10	74.00	-20.90	PK
Vertical	11510.044	49.39	-8.81	40.58	54.00	-13.42	AV
Vertical	17265.166	59.73	-3.01	56.72	68.20	-11.48	PK
Vertical	17265.166	44.48	-3.01	41.47	54.00	-12.53	AV
Horizontal	4679.103	71.28	-20.24	51.04	74.00	-22.96	PK
Horizontal	4679.103	59.60	-20.24	39.35	54.00	-14.65	AV
Horizontal	11510.088	64.54	-8.81	55.73	74.00	-18.27	PK
Horizontal	11510.088	49.15	-8.81	40.34	54.00	-13.66	AV
Horizontal	17265.066	58.68	-3.01	55.67	68.20	-12.53	PK
Horizontal	17265.066	44.82	-3.01	41.81	54.00	-12.19	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.191	70.31	-18.93	51.38	68.20	-16.82	PK
Vertical	6039.191	59.89	-18.93	40.96	54.00	-13.04	AV
Vertical	11590.144	60.87	-8.87	52.00	74.00	-22.00	PK
Vertical	11590.144	49.36	-8.87	40.49	54.00	-13.51	AV
Vertical	17385.021	56.23	-2.35	53.88	68.20	-14.32	PK
Vertical	17385.021	44.40	-2.35	42.05	54.00	-11.95	AV
Horizontal	6039.107	71.37	-18.93	52.44	68.20	-15.76	PK
Horizontal	6039.107	59.03	-18.93	40.10	54.00	-13.90	AV
Horizontal	11590.107	60.18	-8.87	51.31	74.00	-22.69	PK
Horizontal	11590.107	49.44	-8.87	40.57	54.00	-13.43	AV
Horizontal	17385.186	57.37	-2.35	55.02	68.20	-13.18	PK
Horizontal	17385.186	44.76	-2.35	42.41	54.00	-11.59	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 is MIMO Mode.

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

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.086	73.97	-20.24	53.73	74.00	-20.27	PK
Vertical	4679.086	59.65	-20.24	39.41	54.00	-14.59	AV
Vertical	11490.078	63.74	-8.79	54.95	68.20	-13.25	PK
Vertical	11490.078	49.33	-8.79	40.54	54.00	-13.46	AV
Vertical	17235.162	57.00	-3.18	53.82	68.20	-14.38	PK
Vertical	17235.162	44.52	-3.18	41.34	54.00	-12.66	AV
Horizontal	4679.081	72.17	-20.24	51.93	74.00	-22.07	PK
Horizontal	4679.081	59.54	-20.24	39.30	54.00	-14.70	AV
Horizontal	11490.180	63.31	-8.79	54.52	68.20	-13.68	PK
Horizontal	11490.180	49.65	-8.79	40.86	54.00	-13.14	AV
Horizontal	17235.120	57.02	-3.18	53.84	68.20	-14.36	PK
Horizontal	17235.120	44.43	-3.18	41.25	54.00	-12.75	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.057	72.30	-20.42	51.89	74.00	-22.11	PK
Vertical	4592.057	59.47	-20.42	39.06	54.00	-14.94	AV
Vertical	11570.094	63.81	-8.86	54.95	68.20	-13.25	PK
Vertical	11570.094	49.20	-8.86	40.34	54.00	-13.66	AV
Vertical	17355.116	55.58	-2.52	53.06	68.20	-15.14	PK
Vertical	17355.116	44.92	-2.52	42.40	54.00	-11.60	AV
Horizontal	4592.128	74.12	-20.42	53.70	74.00	-20.30	PK
Horizontal	4592.128	59.65	-20.42	39.23	54.00	-14.77	AV
Horizontal	11570.135	63.14	-8.86	54.28	68.20	-13.92	PK
Horizontal	11570.135	49.04	-8.86	40.18	54.00	-13.82	AV
Horizontal	17355.131	58.67	-2.52	56.15	68.20	-12.05	PK
Horizontal	17355.131	44.42	-2.52	41.90	54.00	-12.10	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.172	73.36	-18.93	54.43	68.20	-13.77	PK
Vertical	6039.172	59.74	-18.93	40.81	54.00	-13.19	AV
Vertical	11650.018	60.78	-8.92	51.86	74.00	-22.14	PK
Vertical	11650.018	49.51	-8.92	40.59	54.00	-13.41	AV
Vertical	17475.017	56.91	-1.86	55.05	68.20	-13.15	PK
Vertical	17475.017	44.51	-1.86	42.65	54.00	-11.35	AV
Horizontal	6039.058	73.81	-18.93	54.88	68.20	-13.32	PK
Horizontal	6039.058	59.57	-18.93	40.64	54.00	-13.36	AV
Horizontal	11650.192	61.13	-8.92	52.21	74.00	-21.79	PK
Horizontal	11650.192	49.84	-8.92	40.92	54.00	-13.08	AV
Horizontal	17475.188	59.20	-1.86	57.34	68.20	-10.86	PK
Horizontal	17475.188	44.71	-1.86	42.85	54.00	-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 is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.012	74.15	-20.24	53.91	74.00	-20.09	PK
Vertical	4679.012	59.02	-20.24	38.78	54.00	-15.22	AV
Vertical	11510.162	60.72	-8.81	51.91	74.00	-22.09	PK
Vertical	11510.162	49.00	-8.81	40.19	54.00	-13.81	AV
Vertical	17265.098	59.13	-3.01	56.12	68.20	-12.08	PK
Vertical	17265.098	44.73	-3.01	41.72	54.00	-12.28	AV
Horizontal	4679.146	71.32	-20.24	51.08	74.00	-22.92	PK
Horizontal	4679.146	59.16	-20.24	38.92	54.00	-15.08	AV
Horizontal	11510.180	63.54	-8.81	54.73	74.00	-19.27	PK
Horizontal	11510.180	49.09	-8.81	40.28	54.00	-13.72	AV
Horizontal	17265.002	56.40	-3.01	53.39	68.20	-14.81	PK
Horizontal	17265.002	44.49	-3.01	41.48	54.00	-12.52	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.057	70.02	-18.93	51.09	68.20	-17.11	PK
Vertical	6039.057	59.47	-18.93	40.54	54.00	-13.46	AV
Vertical	11590.141	64.33	-8.87	55.46	74.00	-18.54	PK
Vertical	11590.141	49.45	-8.87	40.58	54.00	-13.42	AV
Vertical	17385.074	57.69	-2.35	55.34	68.20	-12.86	PK
Vertical	17385.074	44.76	-2.35	42.41	54.00	-11.59	AV
Horizontal	6039.153	72.27	-18.93	53.34	68.20	-14.86	PK
Horizontal	6039.153	59.16	-18.93	40.23	54.00	-13.77	AV
Horizontal	11590.112	60.21	-8.87	51.34	74.00	-22.66	PK
Horizontal	11590.112	49.10	-8.87	40.23	54.00	-13.77	AV
Horizontal	17385.174	58.35	-2.35	56.00	68.20	-12.20	PK
Horizontal	17385.174	44.48	-2.35	42.13	54.00	-11.87	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 is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ac 80
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.136	71.87	-20.24	51.63	74.00	-22.37	PK
Vertical	4679.136	59.73	-20.24	39.48	54.00	-14.52	AV
Vertical	11550.051	61.94	-8.84	53.10	74.00	-20.90	PK
Vertical	11550.051	49.40	-8.84	40.56	54.00	-13.44	AV
Vertical	17325.185	57.98	-2.68	55.30	68.20	-12.90	PK
Vertical	17325.185	44.83	-2.68	42.15	54.00	-11.85	AV
Horizontal	4679.038	73.65	-20.24	53.41	74.00	-20.59	PK
Horizontal	4679.038	59.23	-20.24	38.98	54.00	-15.02	AV
Horizontal	11550.064	61.31	-8.84	52.47	74.00	-21.53	PK
Horizontal	11550.064	49.32	-8.84	40.48	54.00	-13.52	AV
Horizontal	17325.065	55.59	-2.68	52.91	68.20	-15.29	PK
Horizontal	17325.065	44.47	-2.68	41.79	54.00	-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.

Test Mode is MIMO Mode.

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

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.179	73.01	-20.24	52.76	74.00	-21.24	PK
Vertical	4679.179	59.12	-20.24	38.88	54.00	-15.12	AV
Vertical	11490.174	62.94	-8.79	54.15	68.20	-14.05	PK
Vertical	11490.174	49.93	-8.79	41.14	54.00	-12.86	AV
Vertical	17235.080	56.81	-3.18	53.63	68.20	-14.57	PK
Vertical	17235.080	44.41	-3.18	41.23	54.00	-12.77	AV
Horizontal	4679.060	74.65	-20.24	54.41	74.00	-19.59	PK
Horizontal	4679.060	59.13	-20.24	38.89	54.00	-15.11	AV
Horizontal	11490.190	63.27	-8.79	54.48	68.20	-13.72	PK
Horizontal	11490.190	49.95	-8.79	41.16	54.00	-12.84	AV
Horizontal	17235.010	55.62	-3.18	52.44	68.20	-15.76	PK
Horizontal	17235.010	44.23	-3.18	41.05	54.00	-12.95	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.004	74.05	-20.42	53.64	74.00	-20.36	PK
Vertical	4592.004	59.34	-20.42	38.92	54.00	-15.08	AV
Vertical	11570.006	64.62	-8.86	55.76	68.20	-12.44	PK
Vertical	11570.006	49.84	-8.86	40.98	54.00	-13.02	AV
Vertical	17355.024	55.07	-2.52	52.55	68.20	-15.65	PK
Vertical	17355.024	44.05	-2.52	41.53	54.00	-12.47	AV
Horizontal	4592.079	72.68	-20.42	52.26	74.00	-21.74	PK
Horizontal	4592.079	59.86	-20.42	39.45	54.00	-14.55	AV
Horizontal	11570.148	62.66	-8.86	53.80	68.20	-14.40	PK
Horizontal	11570.148	49.92	-8.86	41.06	54.00	-12.94	AV
Horizontal	17355.182	57.96	-2.52	55.44	68.20	-12.76	PK
Horizontal	17355.182	44.74	-2.52	42.22	54.00	-11.78	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.175	70.31	-18.93	51.37	68.20	-16.83	PK
Vertical	6039.175	59.43	-18.93	40.50	54.00	-13.50	AV
Vertical	11650.145	60.38	-8.92	51.46	74.00	-22.54	PK
Vertical	11650.145	49.56	-8.92	40.64	54.00	-13.36	AV
Vertical	17475.068	56.99	-1.86	55.13	68.20	-13.07	PK
Vertical	17475.068	44.01	-1.86	42.15	54.00	-11.85	AV
Horizontal	6039.147	71.63	-18.93	52.70	68.20	-15.50	PK
Horizontal	6039.147	59.12	-18.93	40.19	54.00	-13.81	AV
Horizontal	11650.179	63.70	-8.92	54.78	74.00	-19.22	PK
Horizontal	11650.179	49.27	-8.92	40.35	54.00	-13.65	AV
Horizontal	17475.104	56.96	-1.86	55.10	68.20	-13.10	PK
Horizontal	17475.104	44.34	-1.86	42.48	54.00	-11.52	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 is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ax-HT40
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.186	70.68	-20.24	50.44	74.00	-23.56	PK
Vertical	4679.186	59.18	-20.24	38.94	54.00	-15.06	AV
Vertical	11510.049	62.81	-8.81	54.00	74.00	-20.00	PK
Vertical	11510.049	49.64	-8.81	40.83	54.00	-13.17	AV
Vertical	17265.052	55.17	-3.01	52.16	68.20	-16.04	PK
Vertical	17265.052	44.45	-3.01	41.44	54.00	-12.56	AV
Horizontal	4679.006	71.96	-20.24	51.71	74.00	-22.29	PK
Horizontal	4679.006	59.38	-20.24	39.14	54.00	-14.86	AV
Horizontal	11510.044	63.36	-8.81	54.55	74.00	-19.45	PK
Horizontal	11510.044	49.35	-8.81	40.54	54.00	-13.46	AV
Horizontal	17265.048	57.04	-3.01	54.03	68.20	-14.17	PK
Horizontal	17265.048	44.89	-3.01	41.88	54.00	-12.12	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.067	74.55	-18.93	55.62	68.20	-12.58	PK
Vertical	6039.067	59.82	-18.93	40.89	54.00	-13.11	AV
Vertical	11590.113	64.22	-8.87	55.35	74.00	-18.65	PK
Vertical	11590.113	49.00	-8.87	40.13	54.00	-13.87	AV
Vertical	17385.090	55.47	-2.35	53.12	68.20	-15.08	PK
Vertical	17385.090	44.29	-2.35	41.94	54.00	-12.06	AV
Horizontal	6039.032	74.71	-18.93	55.78	68.20	-12.42	PK
Horizontal	6039.032	59.02	-18.93	40.09	54.00	-13.91	AV
Horizontal	11590.060	62.64	-8.87	53.77	74.00	-20.23	PK
Horizontal	11590.060	49.42	-8.87	40.55	54.00	-13.45	AV
Horizontal	17385.198	56.51	-2.35	54.16	68.20	-14.04	PK
Horizontal	17385.198	44.52	-2.35	42.17	54.00	-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 is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11ax 80
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.170	72.31	-20.24	52.07	74.00	-21.93	PK
Vertical	4679.170	59.56	-20.24	39.32	54.00	-14.68	AV
Vertical	11550.139	64.41	-8.84	55.57	74.00	-18.43	PK
Vertical	11550.139	49.05	-8.84	40.21	54.00	-13.79	AV
Vertical	17325.129	58.95	-2.68	56.27	68.20	-11.93	PK
Vertical	17325.129	44.91	-2.68	42.23	54.00	-11.77	AV
Horizontal	4679.080	70.64	-20.24	50.40	74.00	-23.60	PK
Horizontal	4679.080	59.71	-20.24	39.47	54.00	-14.53	AV
Horizontal	11550.186	62.79	-8.84	53.95	74.00	-20.05	PK
Horizontal	11550.186	49.19	-8.84	40.35	54.00	-13.65	AV
Horizontal	17325.015	56.91	-2.68	54.23	68.20	-13.97	PK
Horizontal	17325.015	44.28	-2.68	41.60	54.00	-12.40	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 is MIMO Mode.

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 $RBW \geq 1/T$, where T is defined in section II.B.I.a).

b) Set $VBW \geq 3$ RBW.

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

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ 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

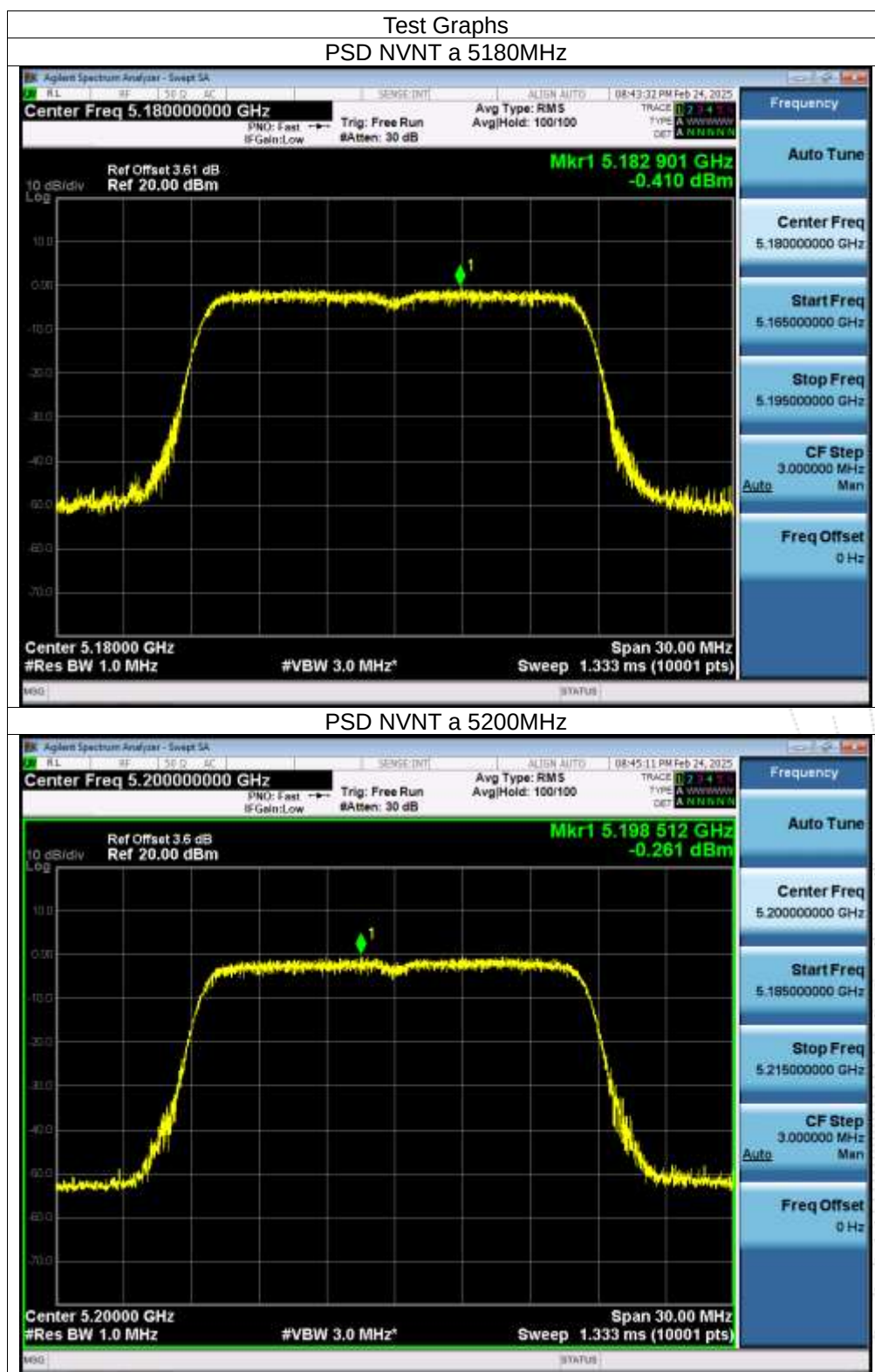
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

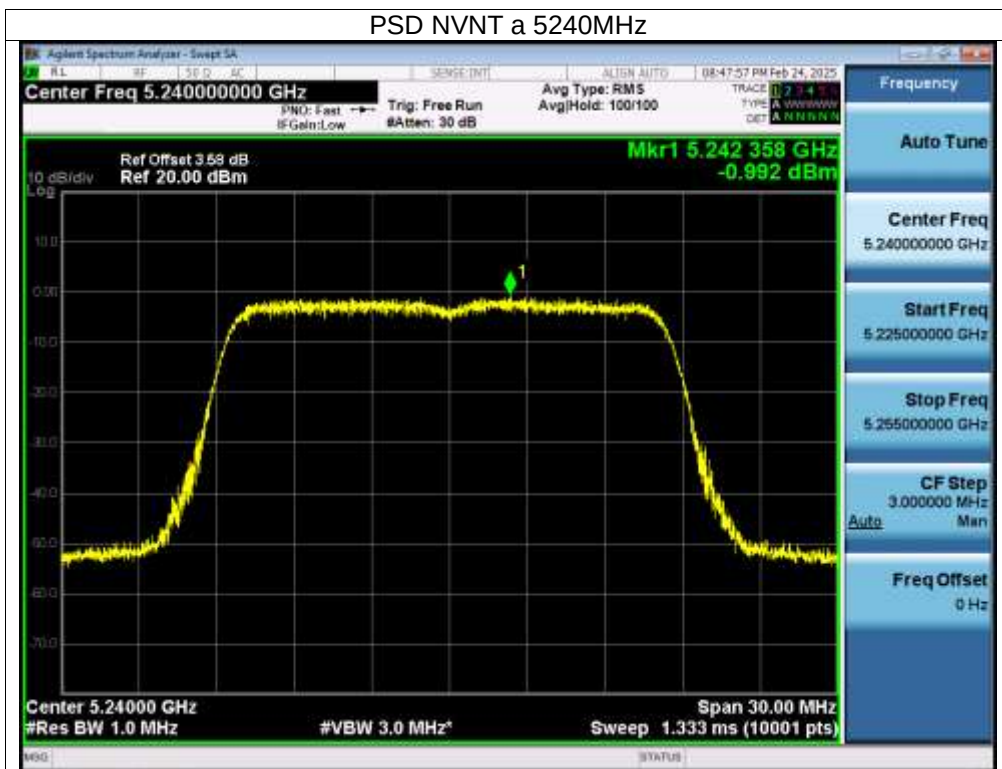
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)			Limit (dBm/MHz)	Result
			ANT A	ANT B	Total		
NVNT	a	5180	-0.55	-0.41	/	11	PASS
NVNT	a	5200	-0.38	-0.26	/	11	PASS
NVNT	a	5240	-1.70	-0.99	/	11	PASS
NVNT	n20	5180	-2.02	-2.45	0.78	11	PASS
NVNT	n20	5200	-3.24	-2.69	0.05	11	PASS
NVNT	n20	5240	-4.83	-3.27	-0.97	11	PASS
NVNT	n40	5190	-5.62	-3.84	-1.63	11	PASS
NVNT	n40	5230	-6.64	-6.39	-3.50	11	PASS
NVNT	ac20	5180	-3.17	-1.87	0.54	11	PASS
NVNT	ac20	5200	-3.37	-2.34	0.19	11	PASS
NVNT	ac20	5240	-4.50	-2.92	-0.63	11	PASS
NVNT	ac40	5190	-4.44	-4.73	-1.57	11	PASS
NVNT	ac40	5230	-6.43	-6.28	-3.34	11	PASS
NVNT	ac80	5210	-9.34	-8.74	-6.02	11	PASS
NVNT	ax20	5180	-2.62	-3.06	0.18	11	PASS
NVNT	ax20	5200	-3.44	-2.63	-0.01	11	PASS
NVNT	ax20	5240	-4.14	-3.77	-0.94	11	PASS
NVNT	ax40	5190	-5.93	-5.38	-2.64	11	PASS
NVNT	ax40	5230	-6.16	-6.05	-3.09	11	PASS
NVNT	ax80	5210	-9.67	-9.36	-6.50	11	PASS

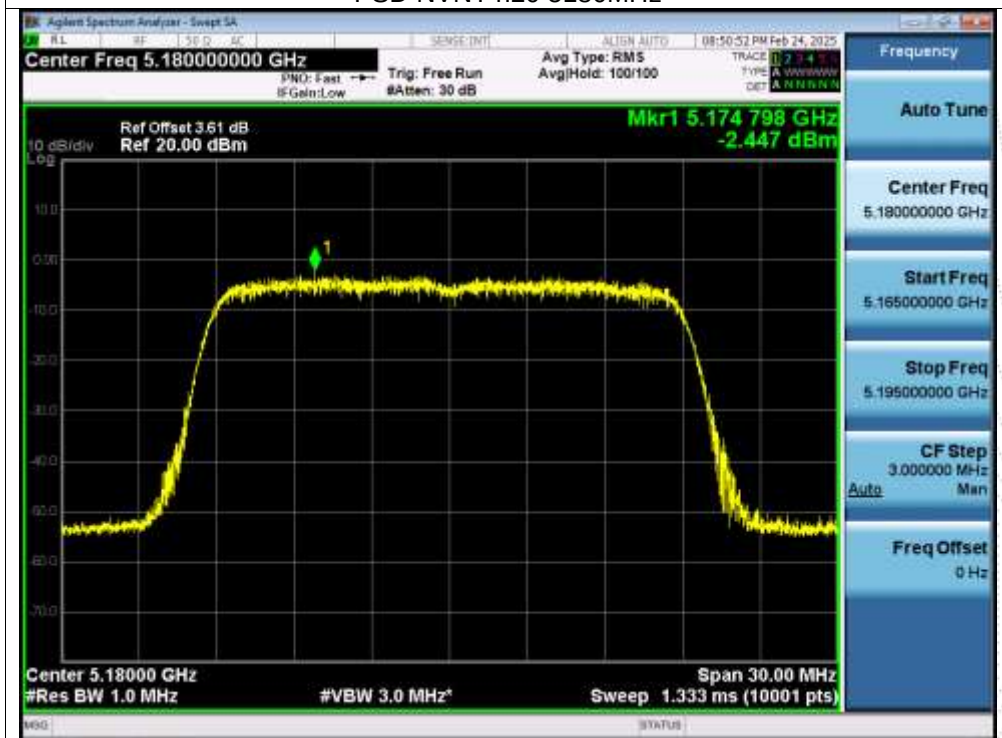
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.



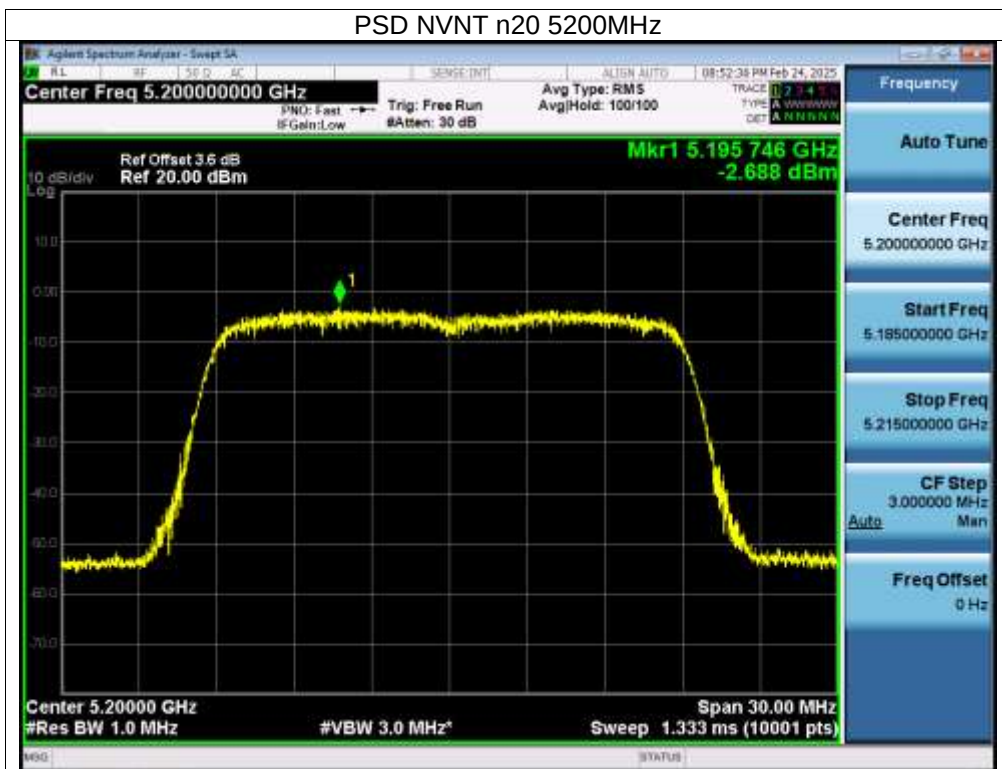
PSD NVNT a 5240MHz



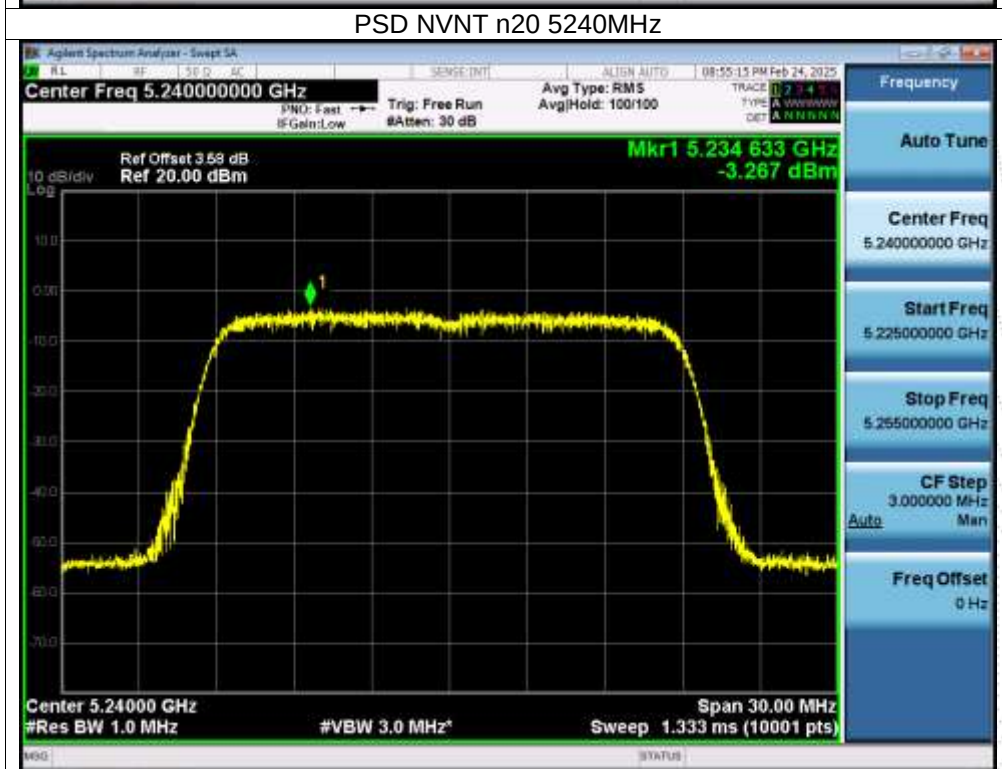
PSD NVNT n20 5180MHz



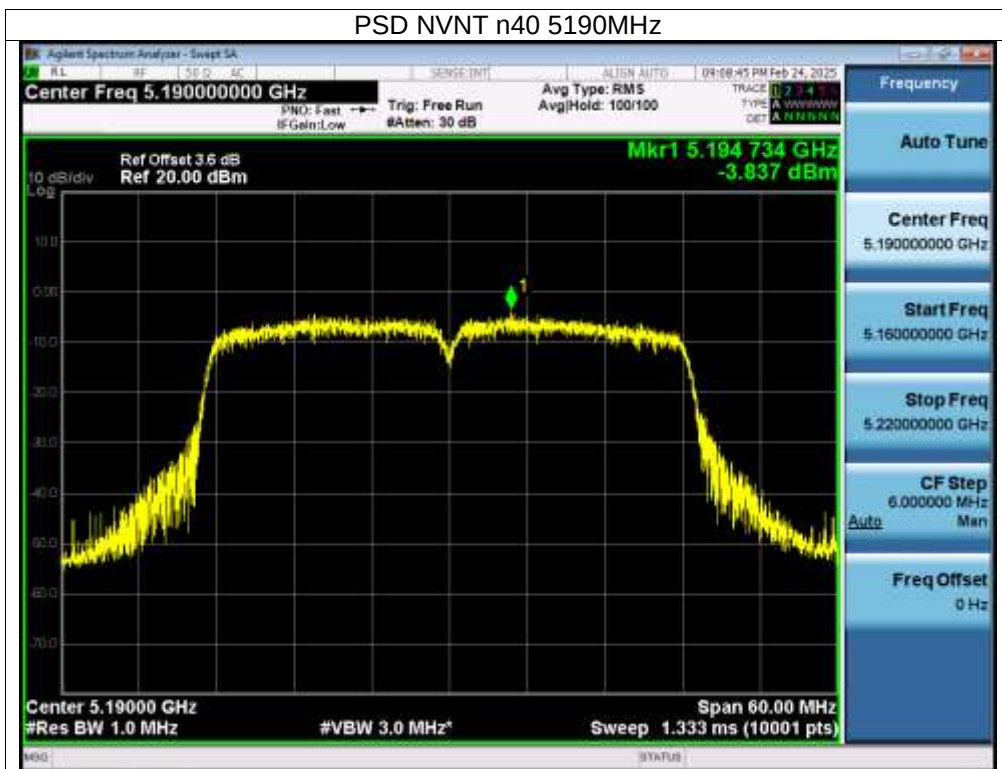
PSD NVNT n20 5200MHz



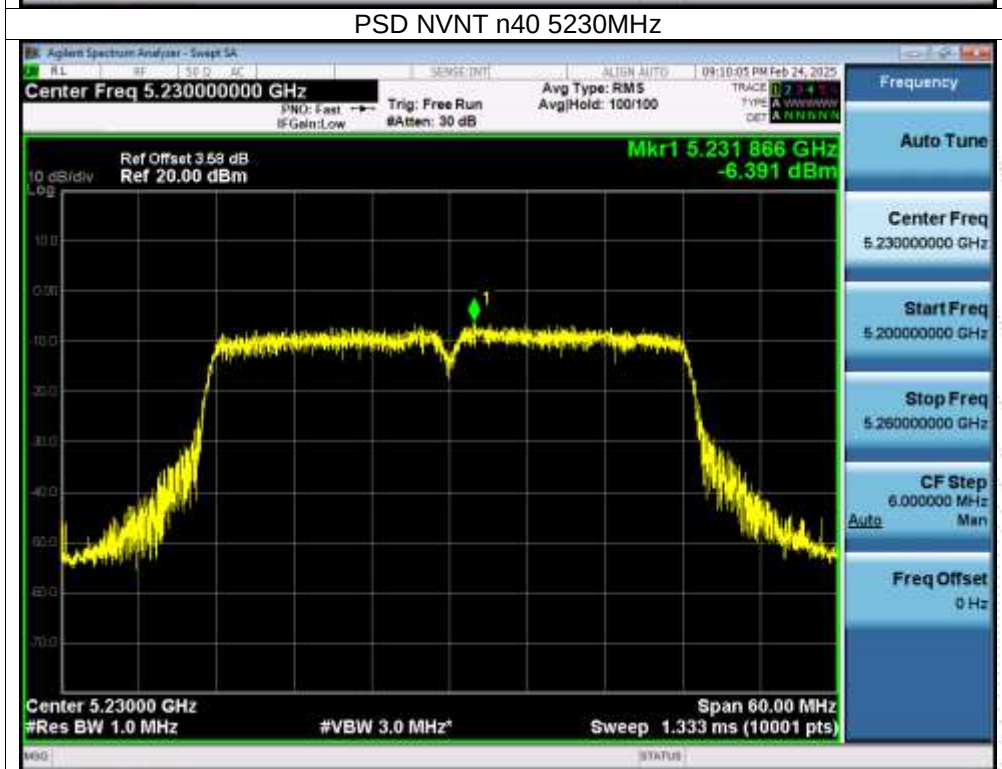
PSD NVNT n20 5240MHz



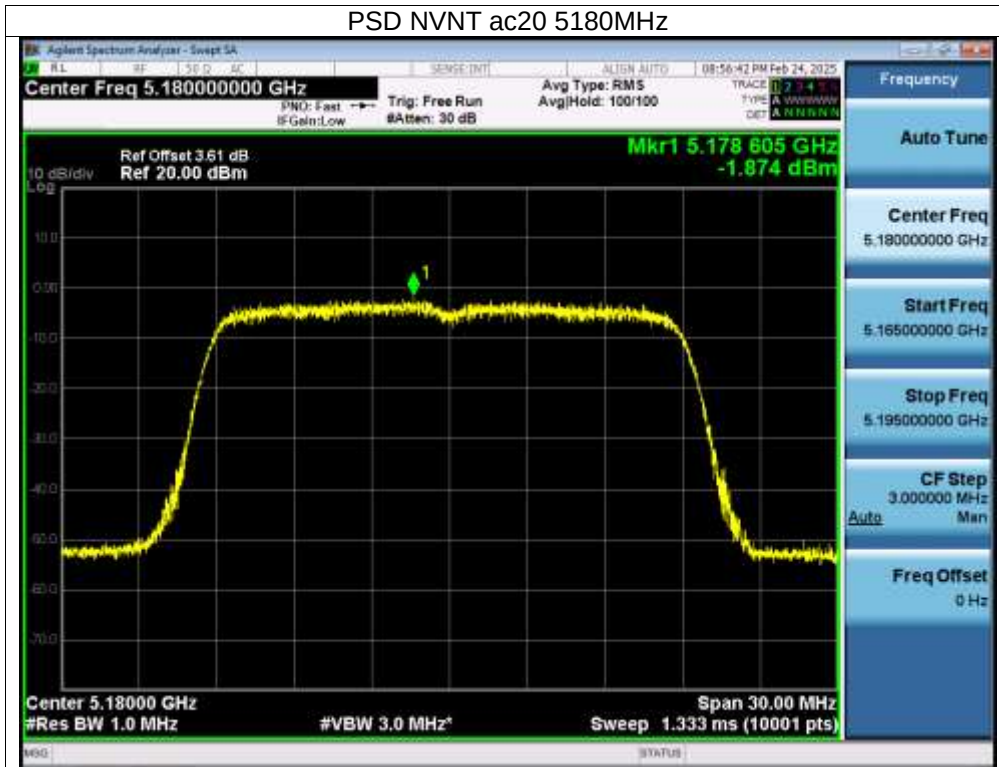
PSD NVNT n40 5190MHz



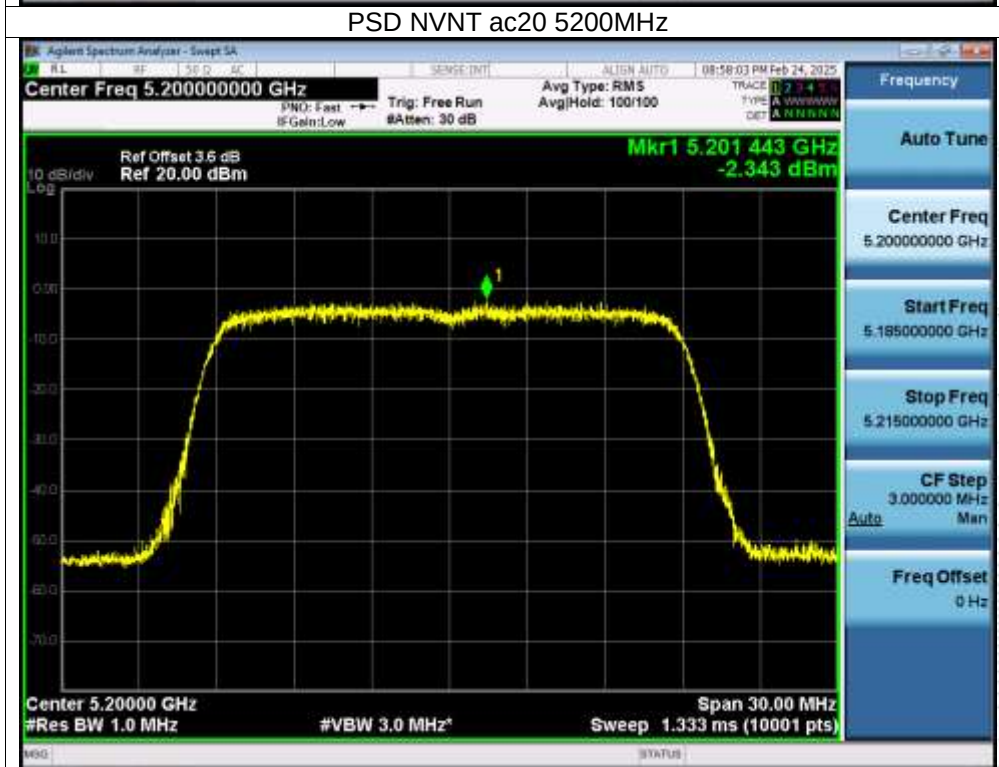
PSD NVNT n40 5230MHz



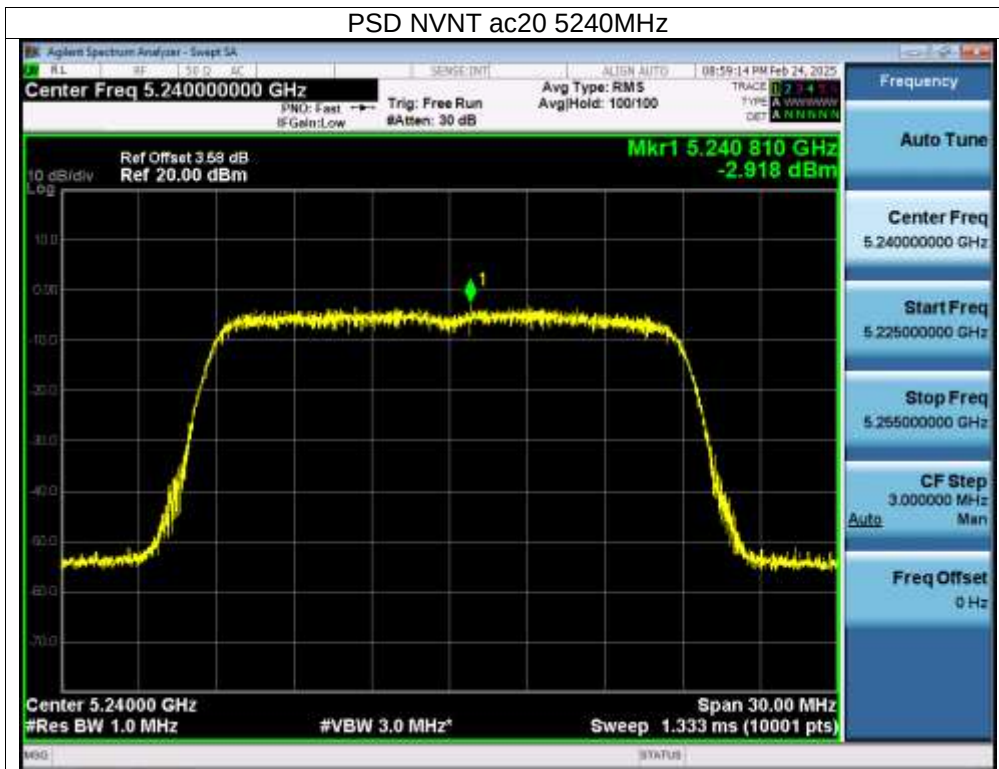
PSD NVNT ac20 5180MHz



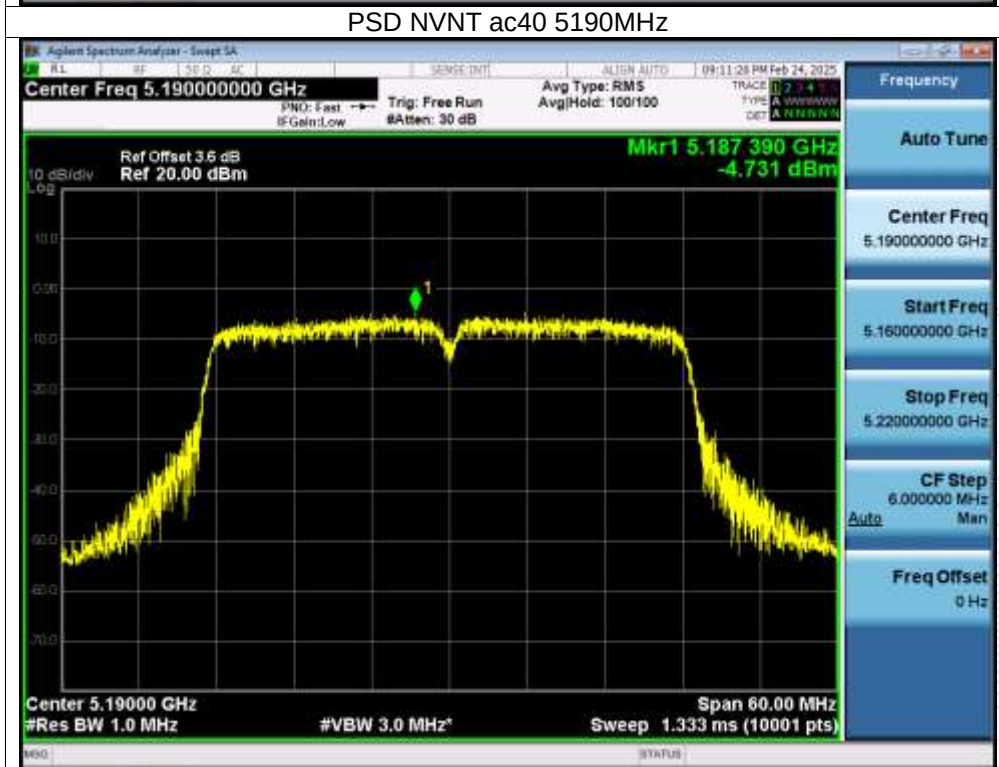
PSD NVNT ac20 5200MHz



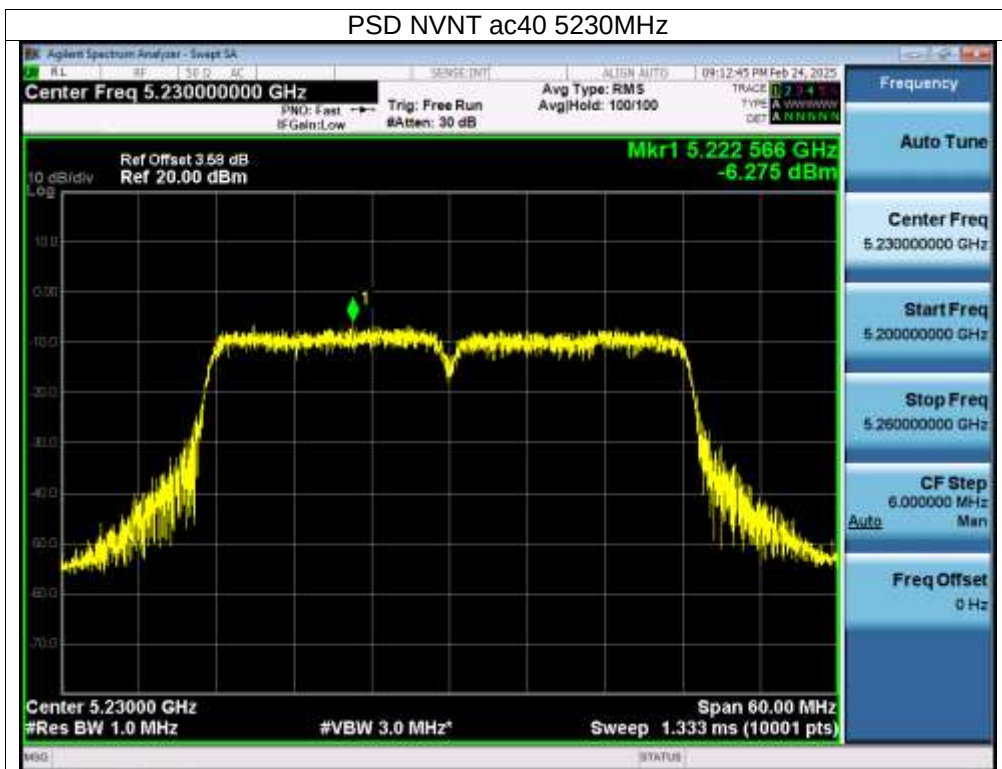
PSD NVNT ac20 5240MHz



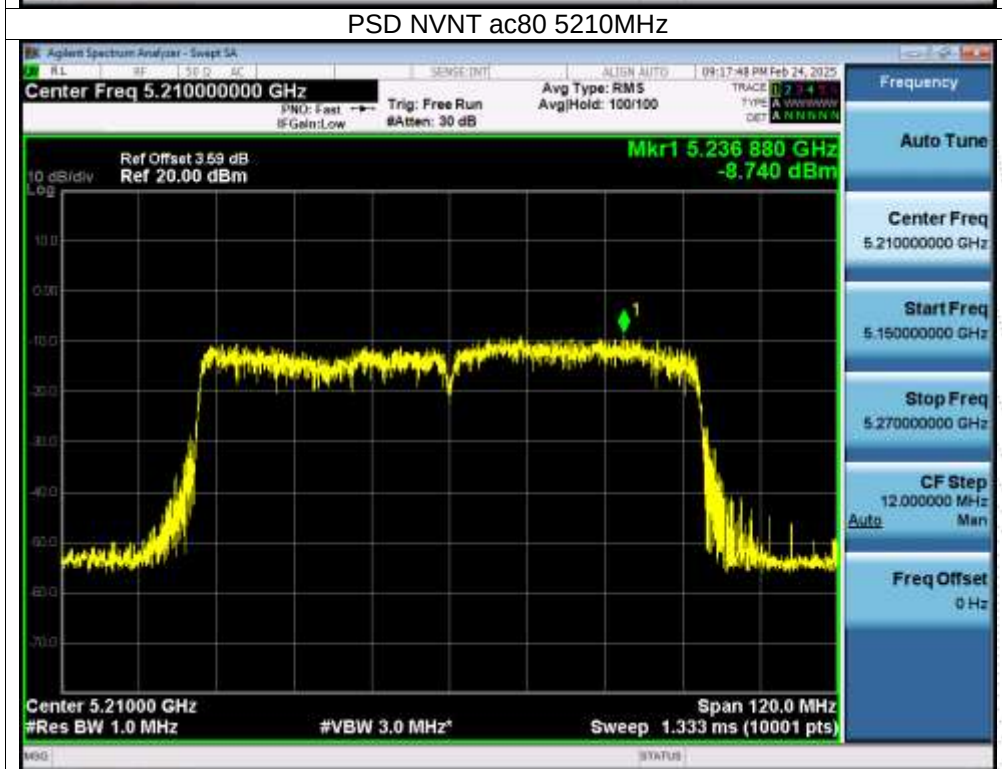
PSD NVNT ac40 5190MHz



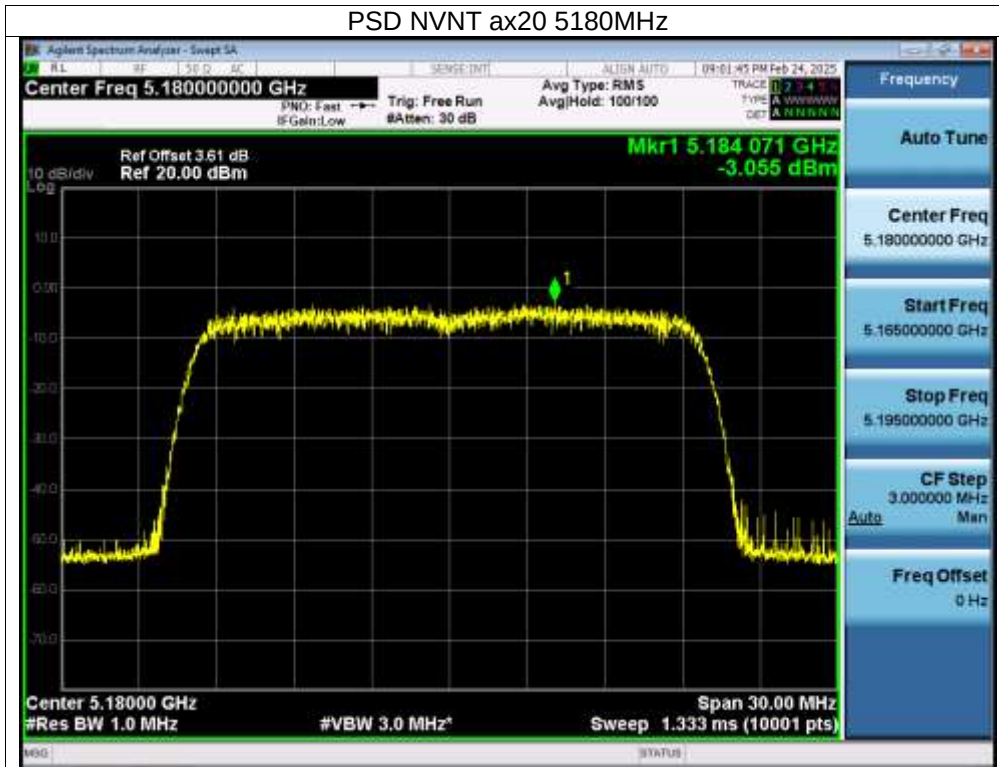
PSD NVNT ac40 5230MHz



PSD NVNT ac80 5210MHz



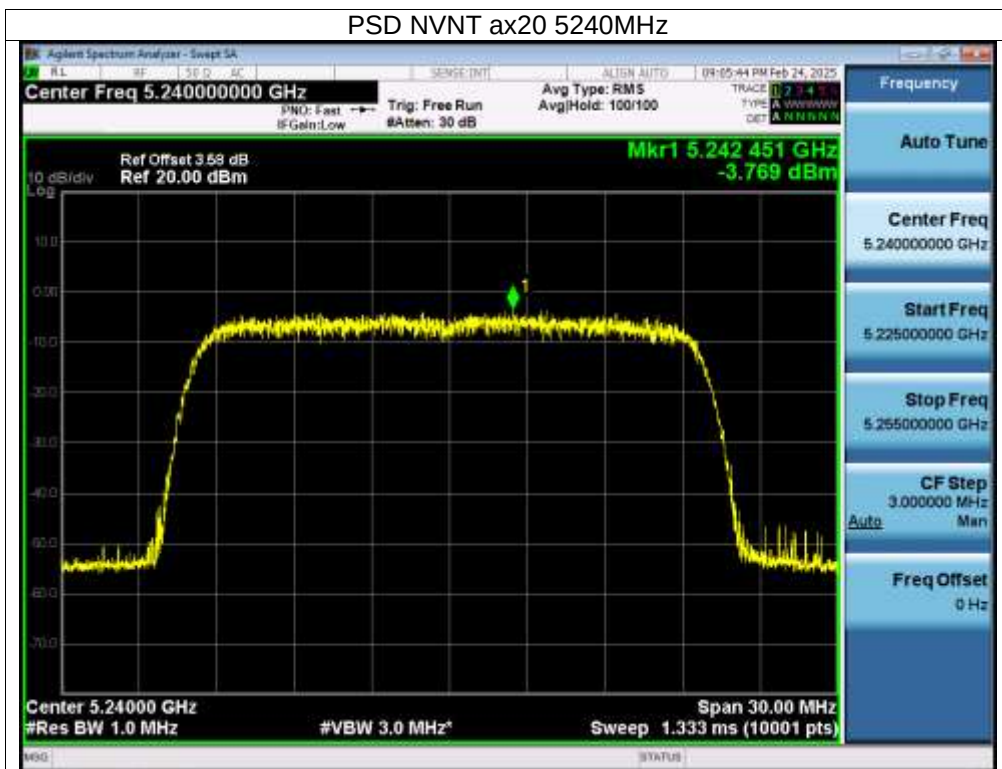
PSD NVNT ax20 5180MHz



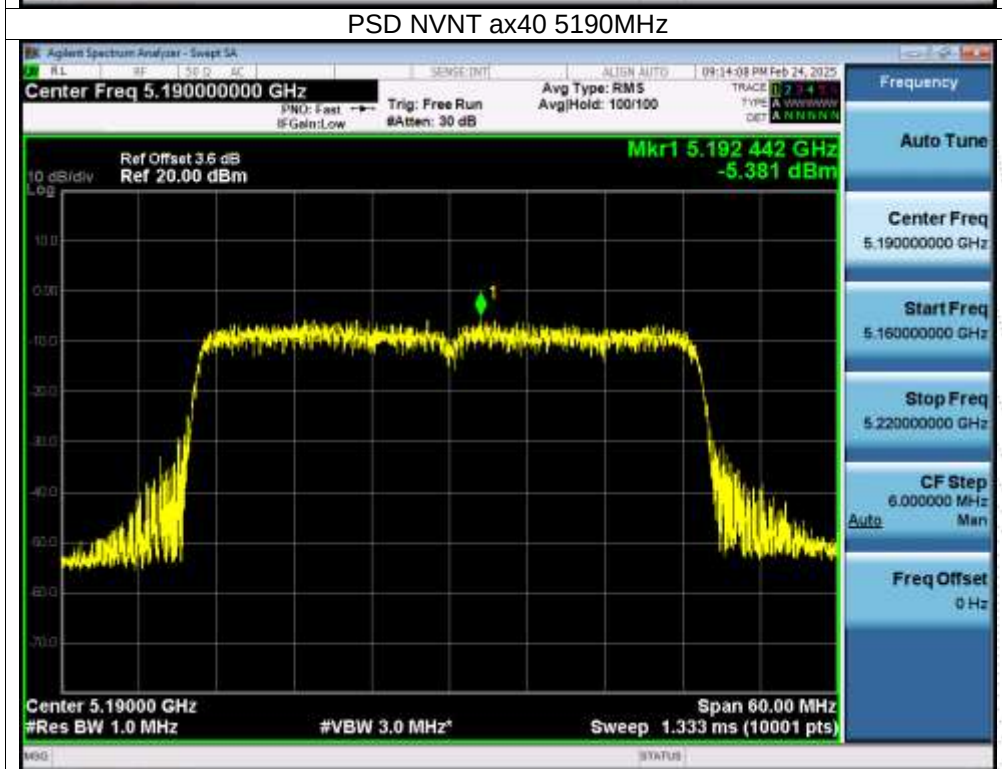
PSD NVNT ax20 5200MHz



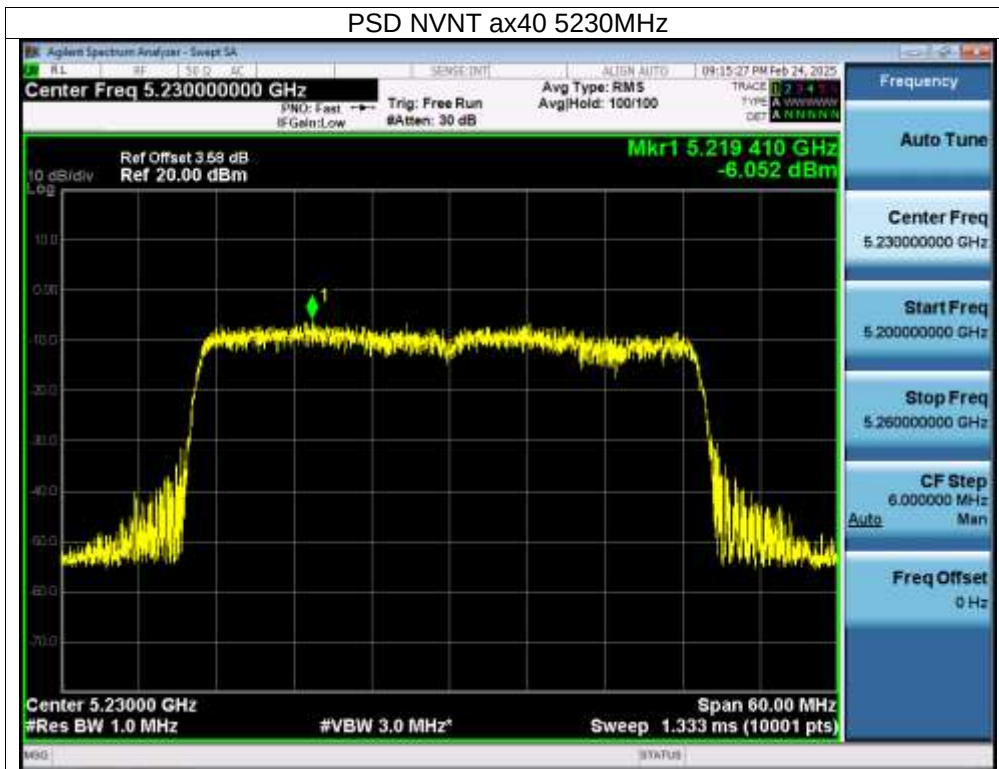
PSD NVNT ax20 5240MHz



PSD NVNT ax40 5190MHz



PSD NVNT ax40 5230MHz



PSD NVNT ax80 5210MHz



Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

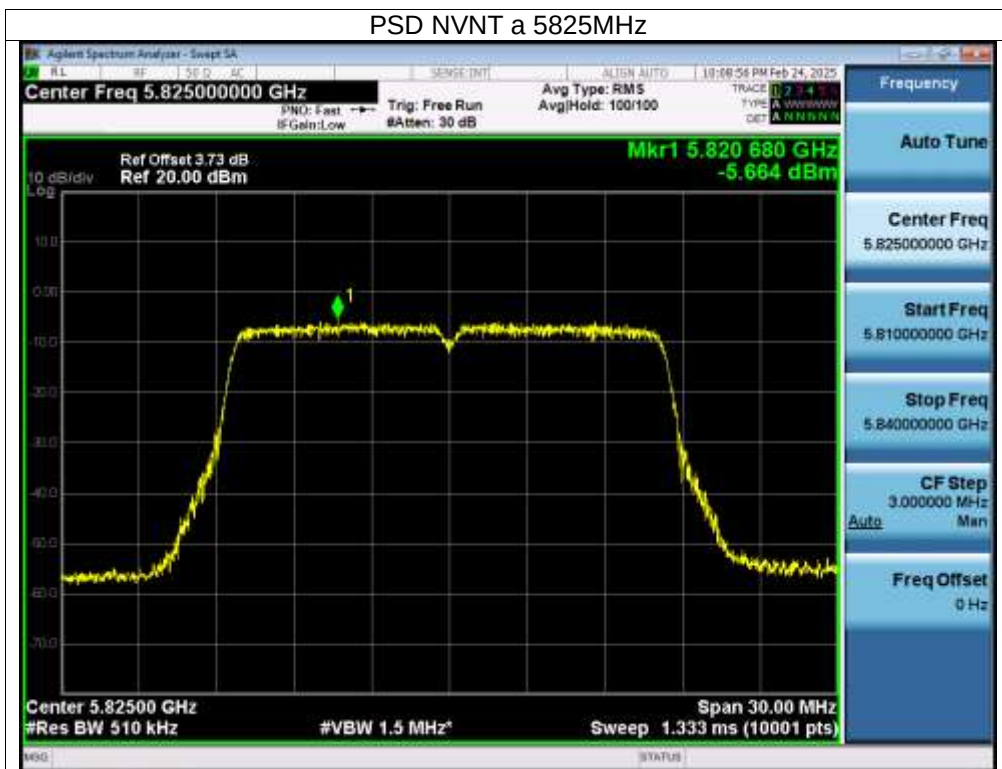
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)			Limit (dBm/MHz)	Result
			ANT A	ANT B	Total		
NVNT	a	5745	-4.58	-4.46	/	30	PASS
NVNT	a	5785	-4.80	-4.91	/	30	PASS
NVNT	a	5825	-5.53	-5.66	/	30	PASS
NVNT	n20	5745	-5.71	-5.98	-2.83	29.68	PASS
NVNT	n20	5785	-6.02	-6.53	-3.26	29.68	PASS
NVNT	n20	5825	-7.36	-6.94	-4.13	29.68	PASS
NVNT	n40	5755	-11.89	-11.76	-8.81	29.68	PASS
NVNT	n40	5795	-12.35	-12.45	-9.39	29.68	PASS
NVNT	ac20	5745	-7.06	-7.55	-4.29	29.68	PASS
NVNT	ac20	5785	-6.62	-7.21	-3.89	29.68	PASS
NVNT	ac20	5825	-8.33	-8.42	-5.36	29.68	PASS
NVNT	ac40	5755	-11.33	-11.53	-8.42	29.68	PASS
NVNT	ac40	5795	-12.58	-11.82	-9.17	29.68	PASS
NVNT	ac80	5775	-15.72	-14.66	-12.15	29.68	PASS
NVNT	ax20	5745	-6.39	-7.62	-3.95	29.68	PASS
NVNT	ax20	5785	-6.98	-7.93	-4.42	29.68	PASS
NVNT	ax20	5825	-7.78	-9.50	-5.55	29.68	PASS
NVNT	ax40	5755	-11.35	-11.78	-8.55	29.68	PASS
NVNT	ax40	5795	-12.65	-11.90	-9.25	29.68	PASS
NVNT	ax80	5775	-16.23	-15.47	-12.82	29.68	PASS

TC
3C
PPR
Report

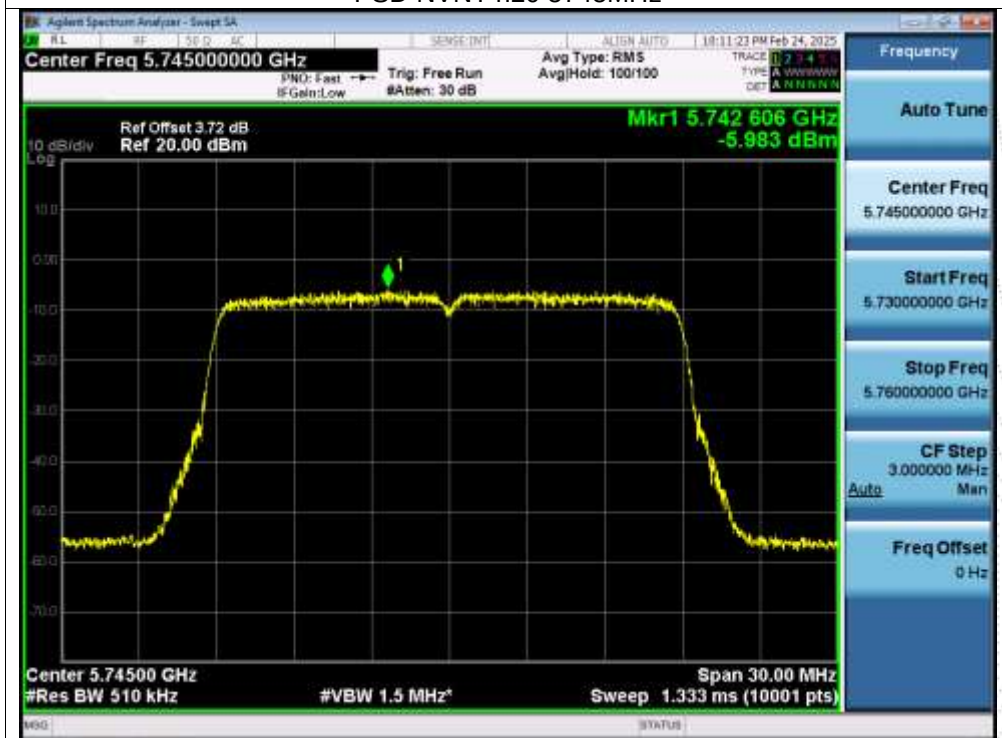
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.



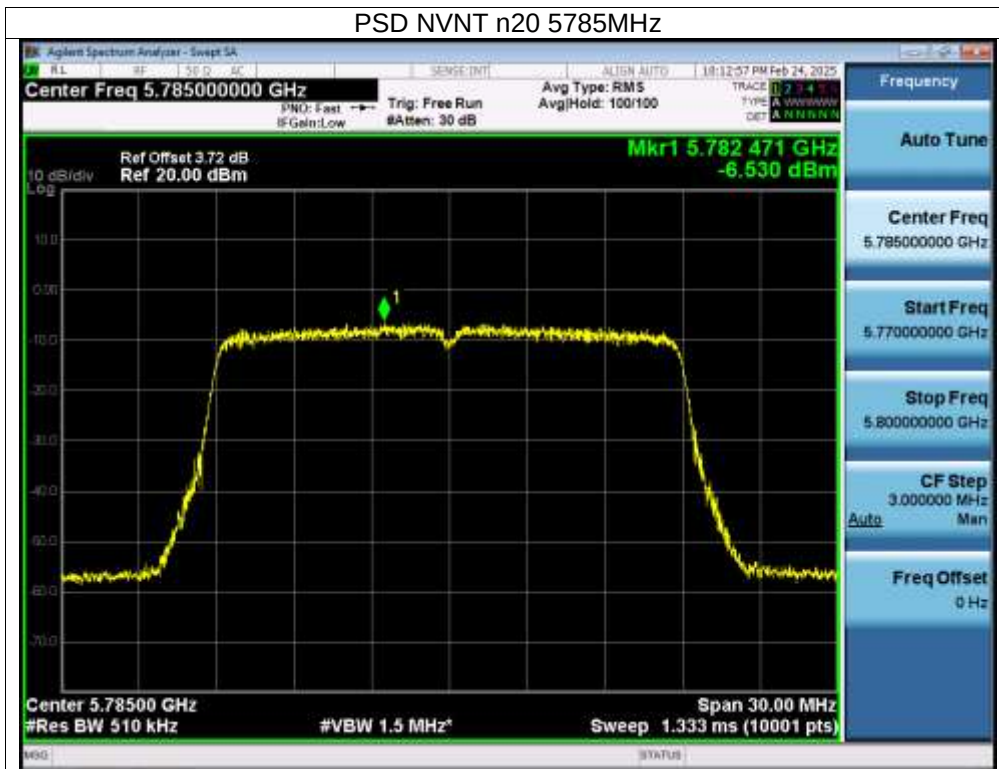
PSD NVNT a 5825MHz



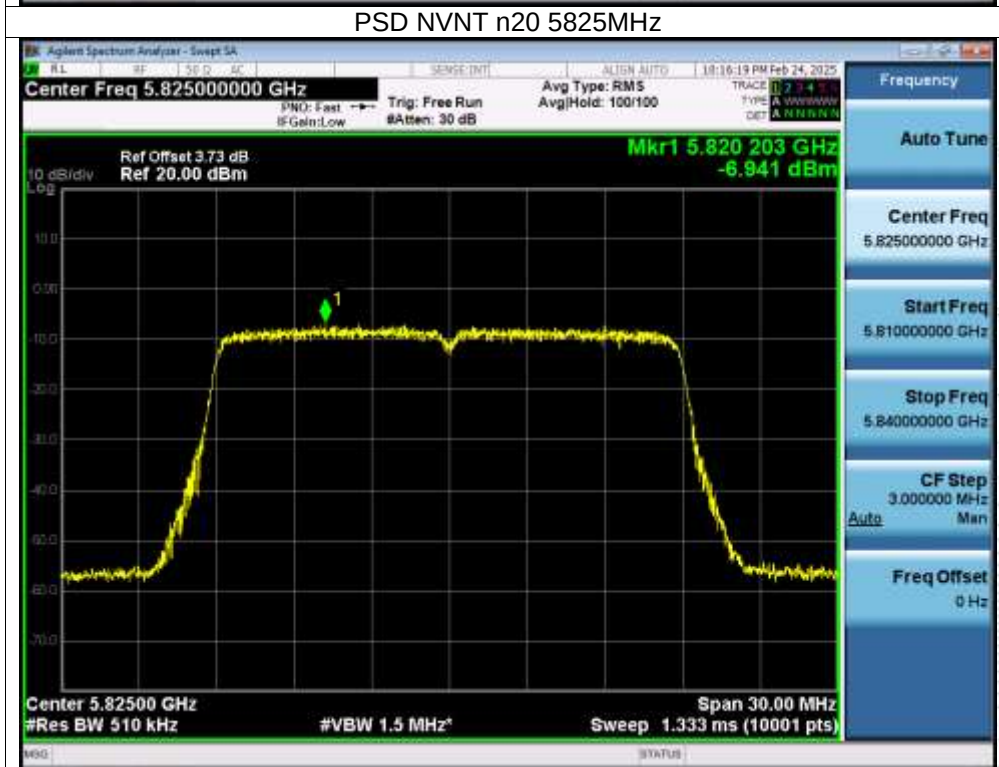
PSD NVNT n20 5745MHz



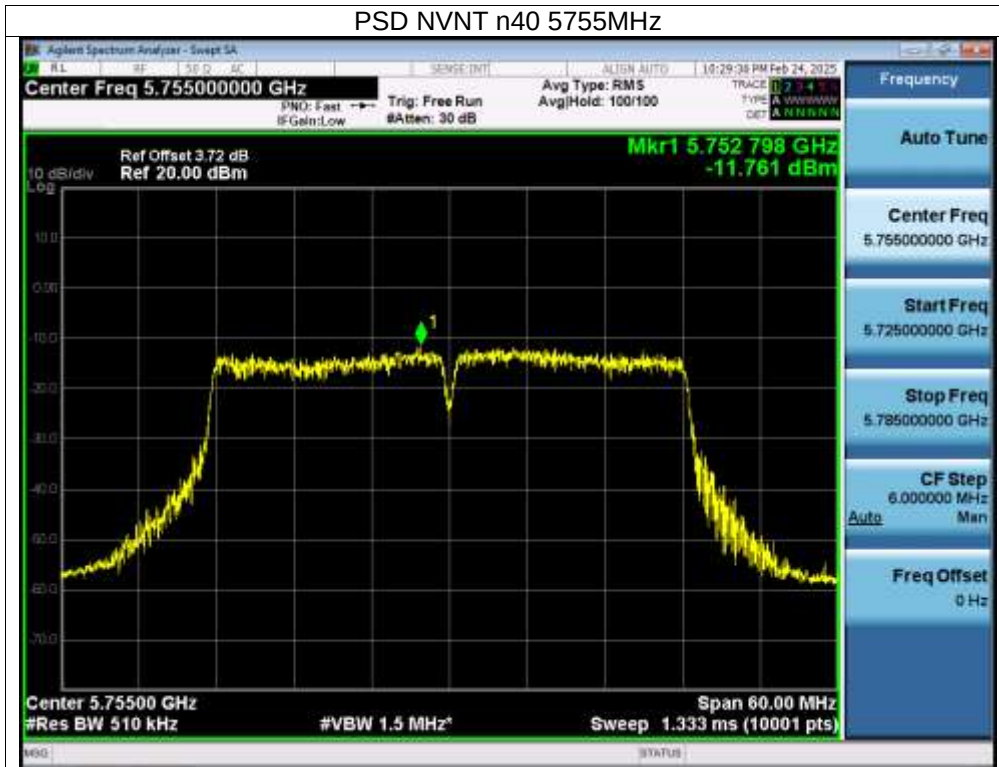
PSD NVNT n20 5785MHz



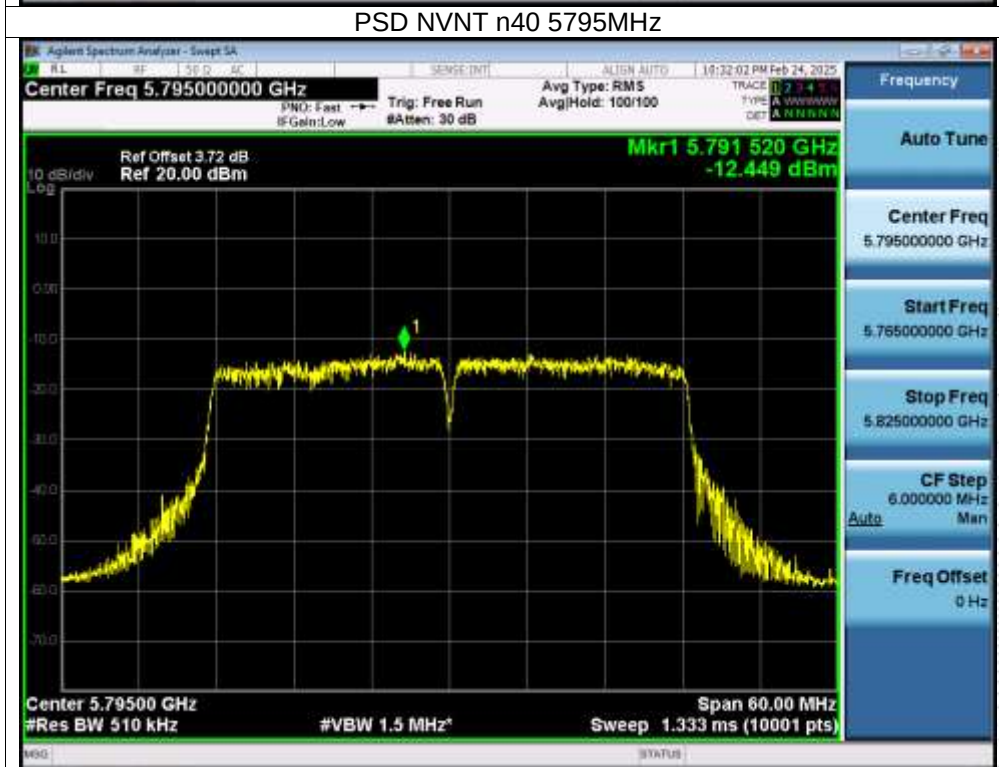
PSD NVNT n20 5825MHz



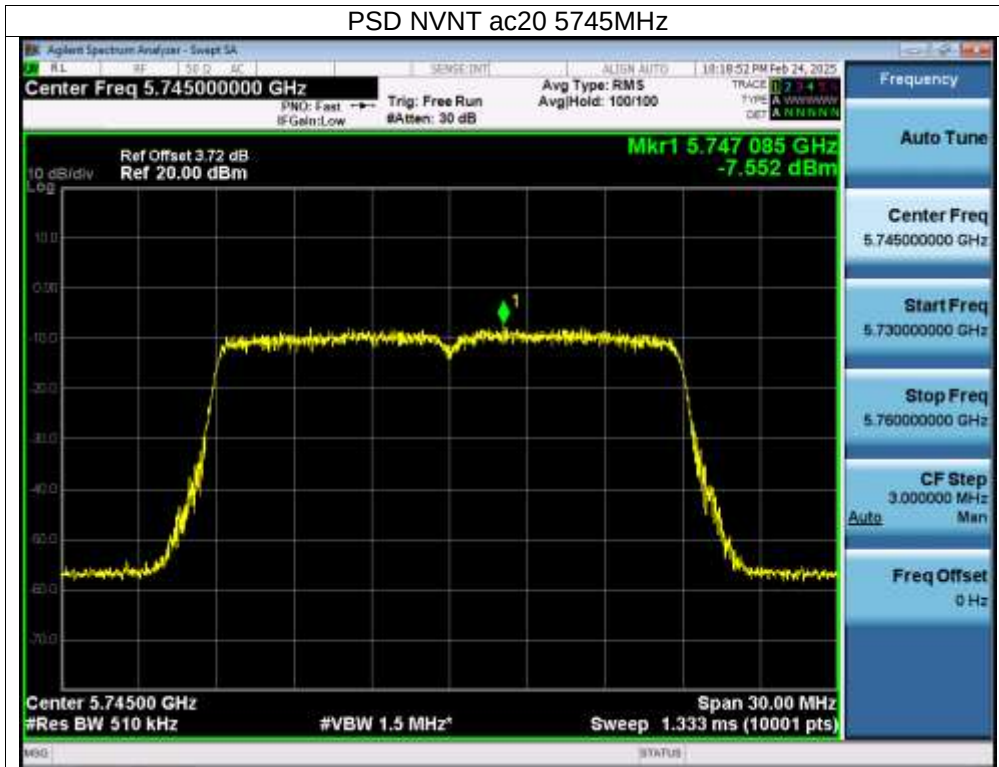
PSD NVNT n40 5755MHz



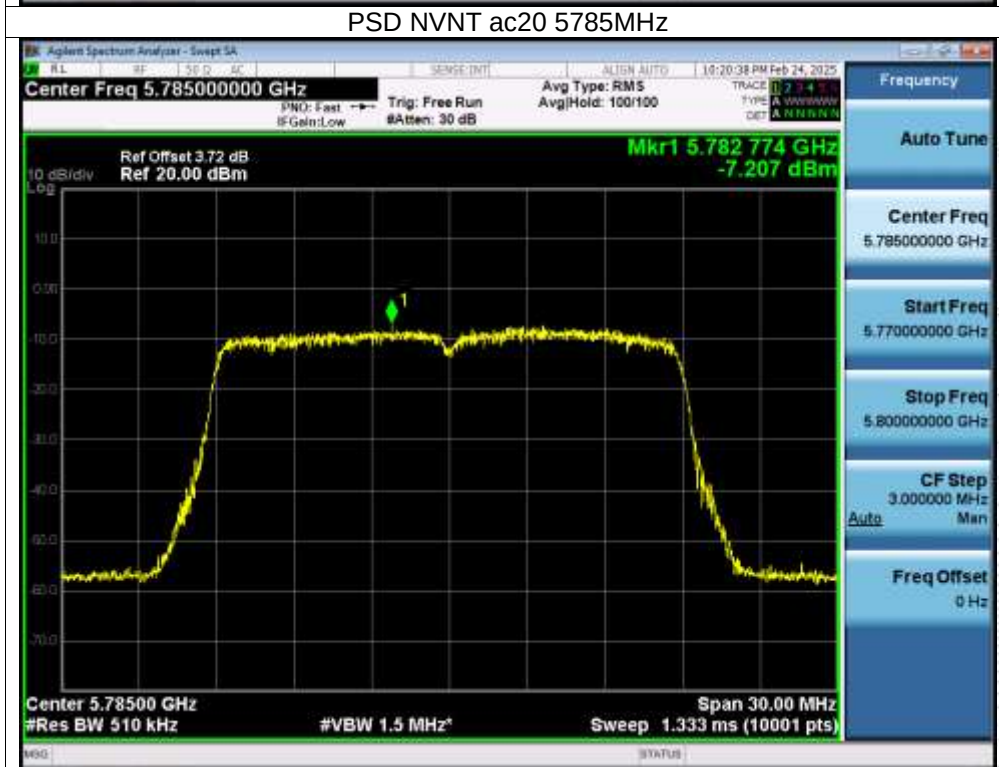
PSD NVNT n40 5795MHz



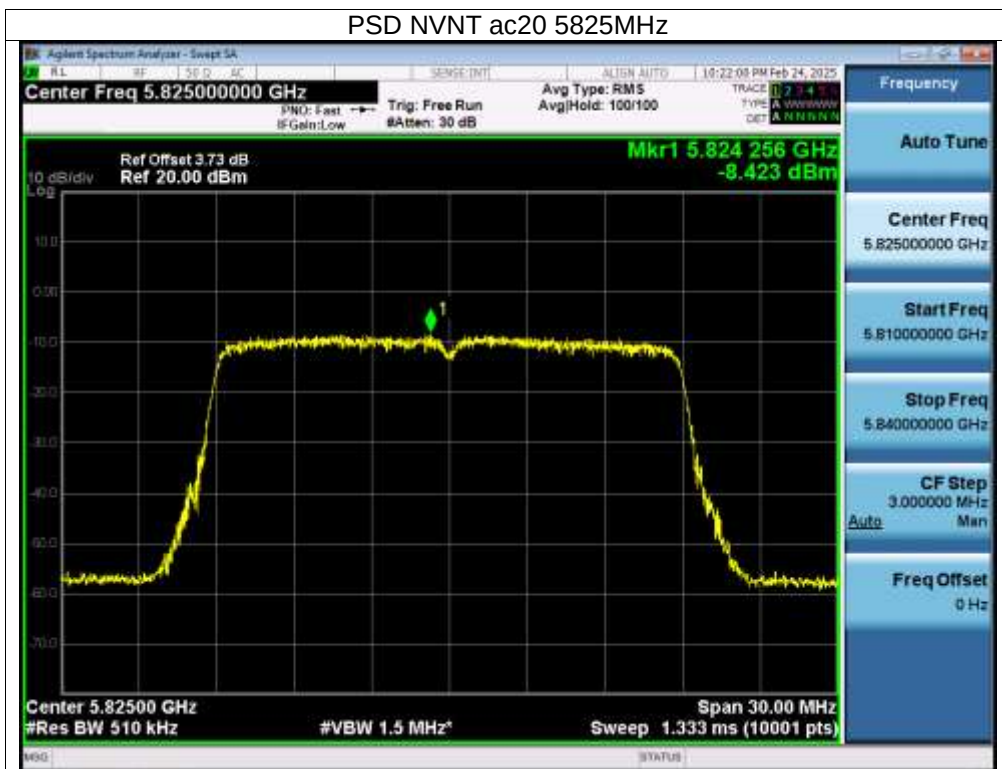
PSD NVNT ac20 5745MHz



PSD NVNT ac20 5785MHz



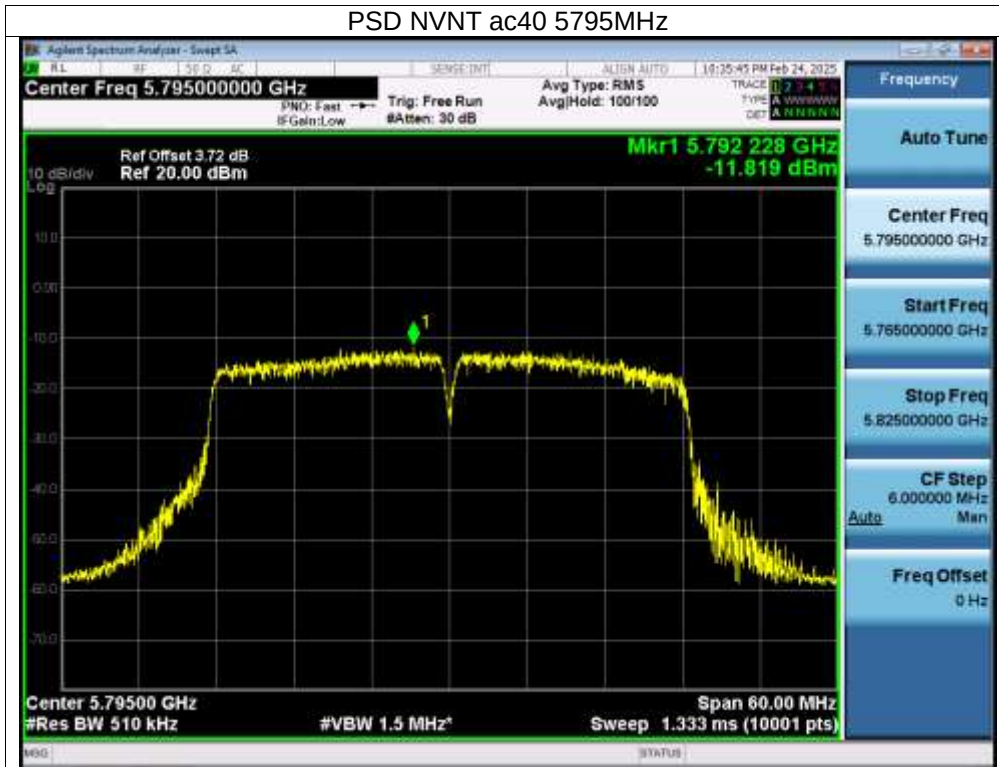
PSD NVNT ac20 5825MHz



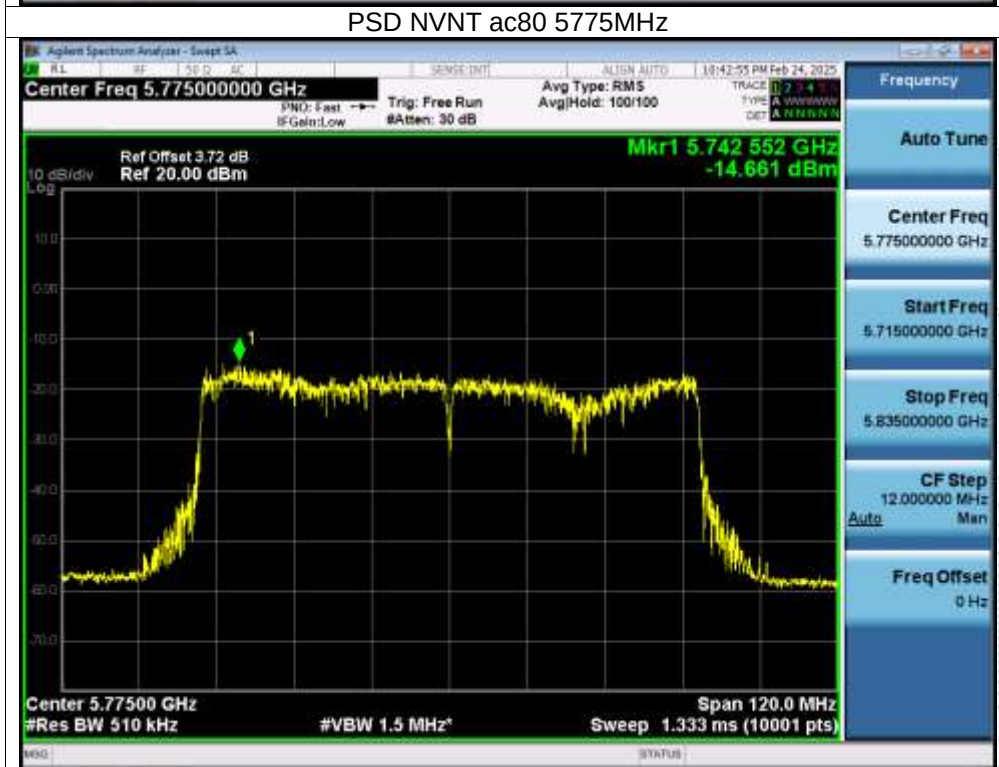
PSD NVNT ac40 5755MHz



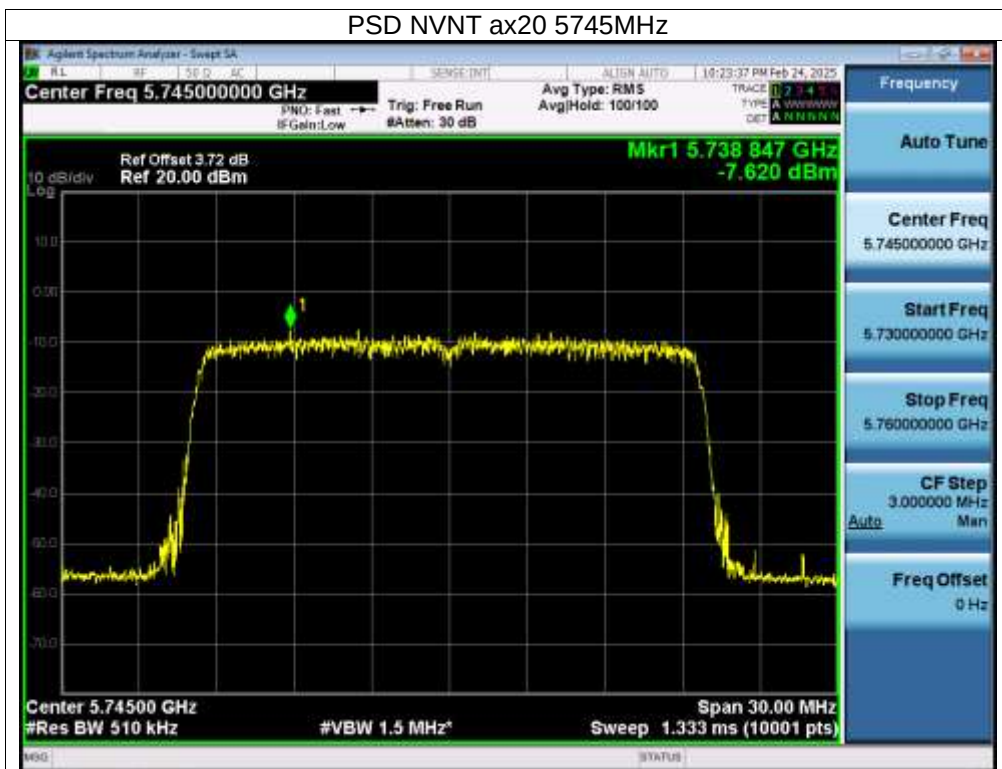
PSD NVNT ac40 5795MHz



PSD NVNT ac80 5775MHz



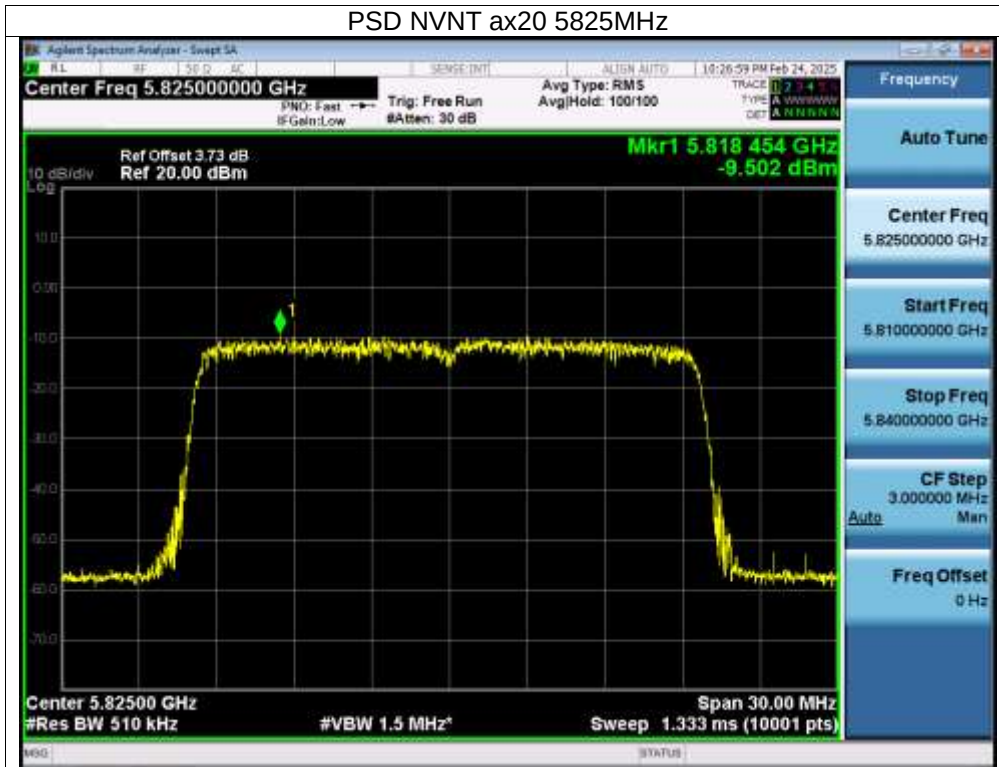
PSD NVNT ax20 5745MHz



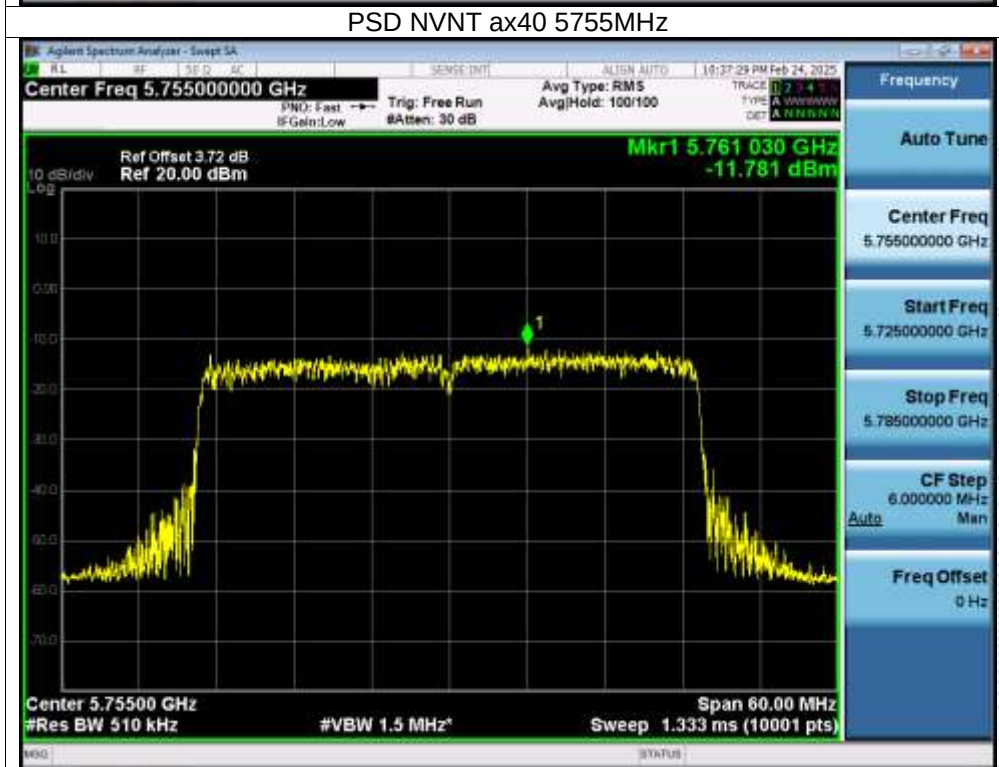
PSD NVNT ax20 5785MHz



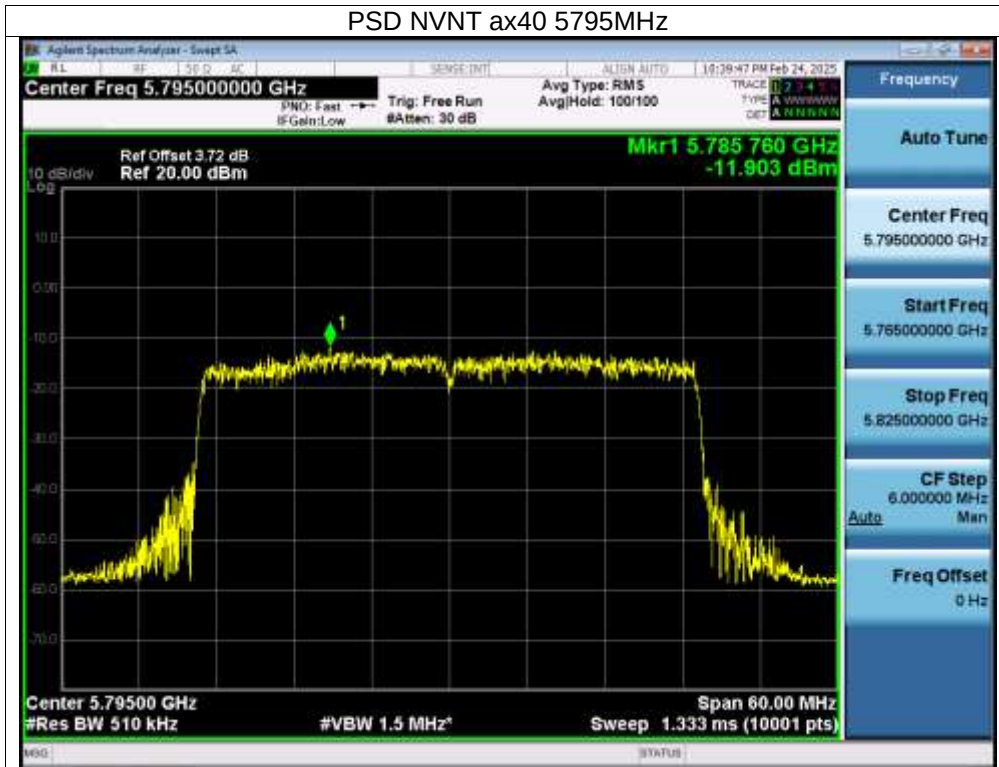
PSD NVNT ax20 5825MHz



PSD NVNT ax40 5755MHz



PSD NVNT ax40 5795MHz

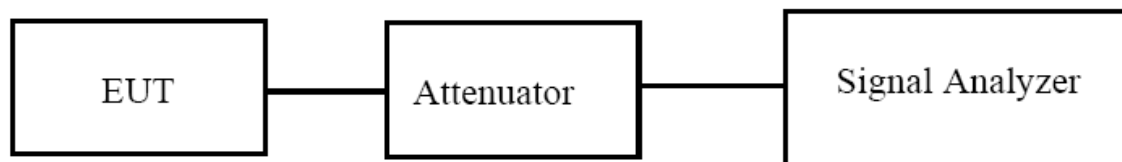


PSD NVNT ax80 5775MHz



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

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- 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.
- Use the 99 % power bandwidth function of the instrument (if available).
- 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

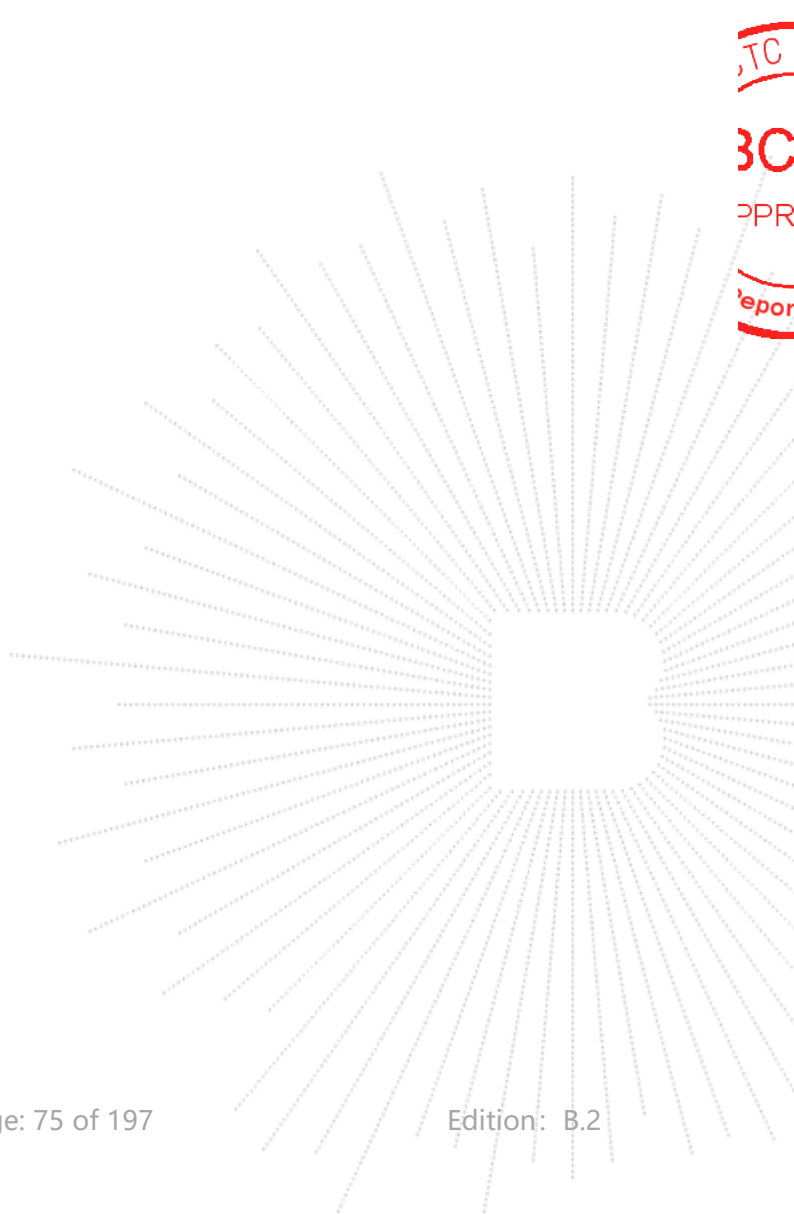
- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

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

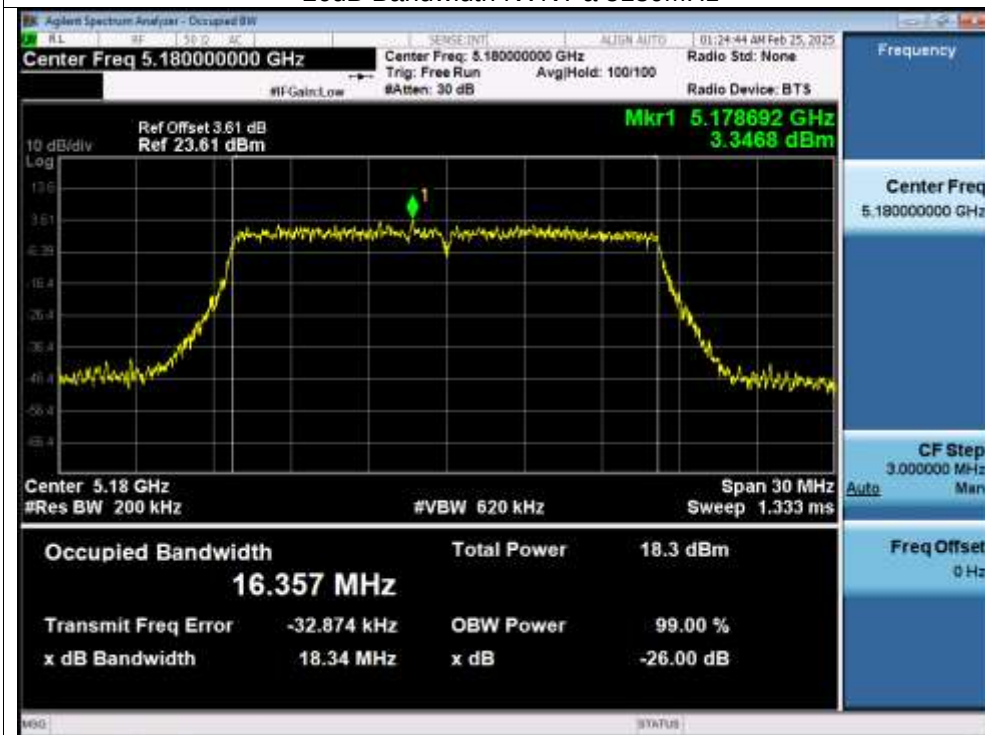
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101kPa	Test Voltage:	DC 11.4V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Mode	Channel	Frequency (MHz)	99% OBW (MHz)		26dB bandwidth (MHz)		Result
			ANT A	ANT B	ANT A	ANT B	
NVNT	a	5180	16.336	16.349	18.342	18.326	Pass
NVNT	a	5200	16.337	16.357	18.233	18.064	Pass
NVNT	a	5240	16.326	16.340	17.912	18.031	Pass
NVNT	n20	5180	17.550	17.542	19.192	19.339	Pass
NVNT	n20	5200	17.537	17.538	19.215	19.148	Pass
NVNT	n20	5240	17.542	17.536	19.116	19.282	Pass
NVNT	n40	5190	36.218	36.295	43.265	42.218	Pass
NVNT	n40	5230	36.163	36.293	42.077	42.244	Pass
NVNT	ac20	5180	17.500	17.537	19.155	19.001	Pass
NVNT	ac20	5200	17.535	17.529	19.249	19.203	Pass
NVNT	ac20	5240	17.554	17.537	19.056	19.100	Pass
NVNT	ac40	5190	36.254	36.296	41.717	41.865	Pass
NVNT	ac40	5230	36.264	36.350	41.840	42.816	Pass
NVNT	ac80	5210	76.054	76.079	86.216	84.781	Pass
NVNT	ax20	5180	18.868	18.886	20.169	19.964	Pass
NVNT	ax20	5200	18.888	18.880	20.114	20.128	Pass
NVNT	ax20	5240	18.888	18.876	20.039	19.945	Pass
NVNT	ax40	5190	37.580	37.704	41.676	42.693	Pass
NVNT	ax40	5230	37.744	37.773	41.458	42.430	Pass
NVNT	ax80	5210	77.369	77.244	81.059	79.912	Pass

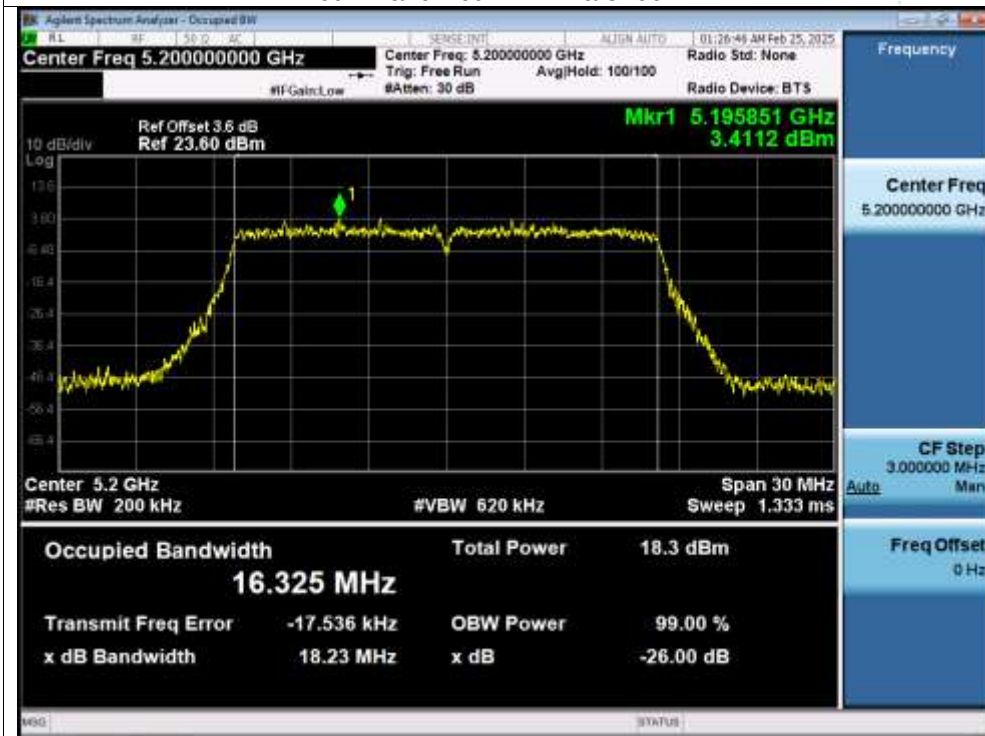
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

Test Graphs

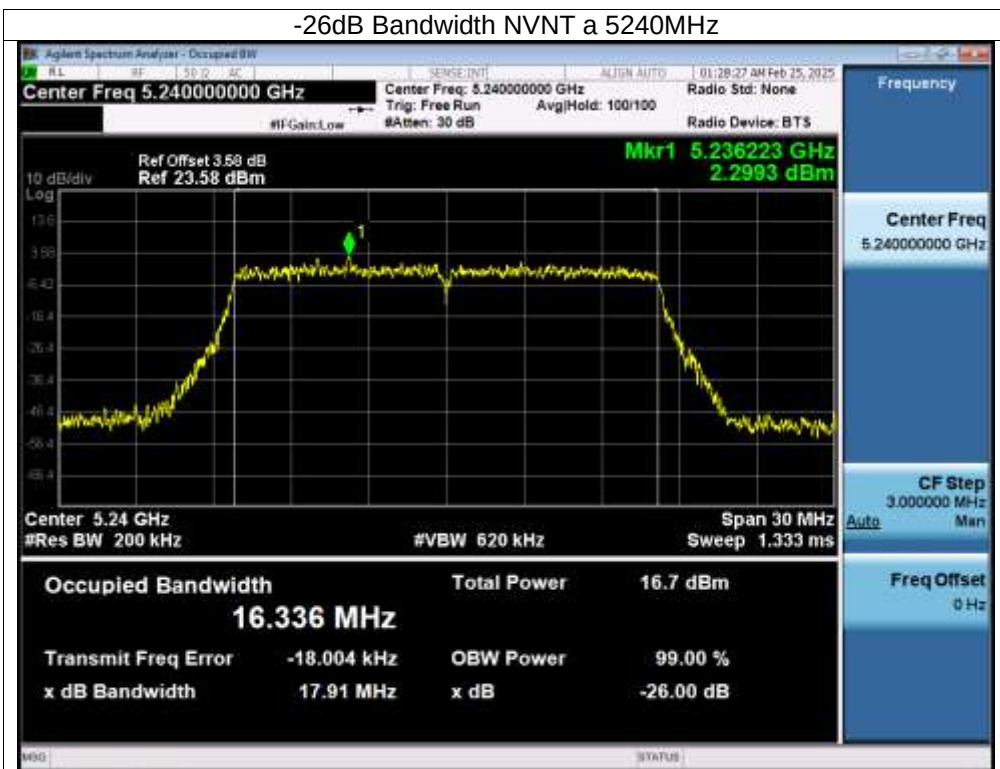
-26dB Bandwidth NVNT a 5180MHz



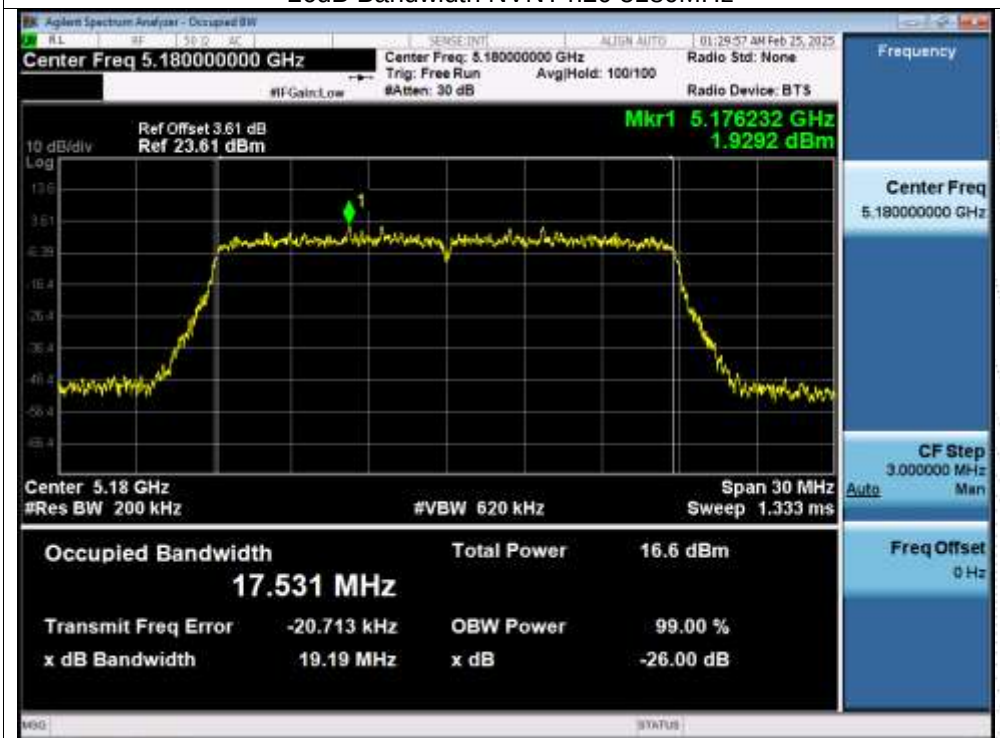
-26dB Bandwidth NVNT a 5200MHz



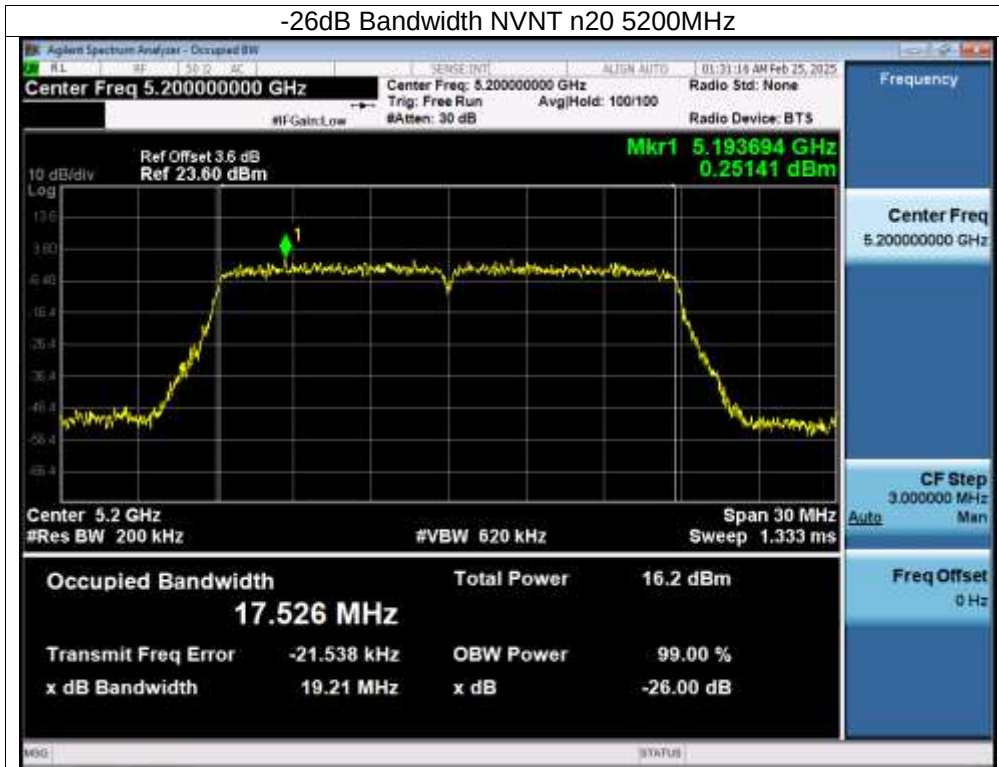
-26dB Bandwidth NVNT a 5240MHz



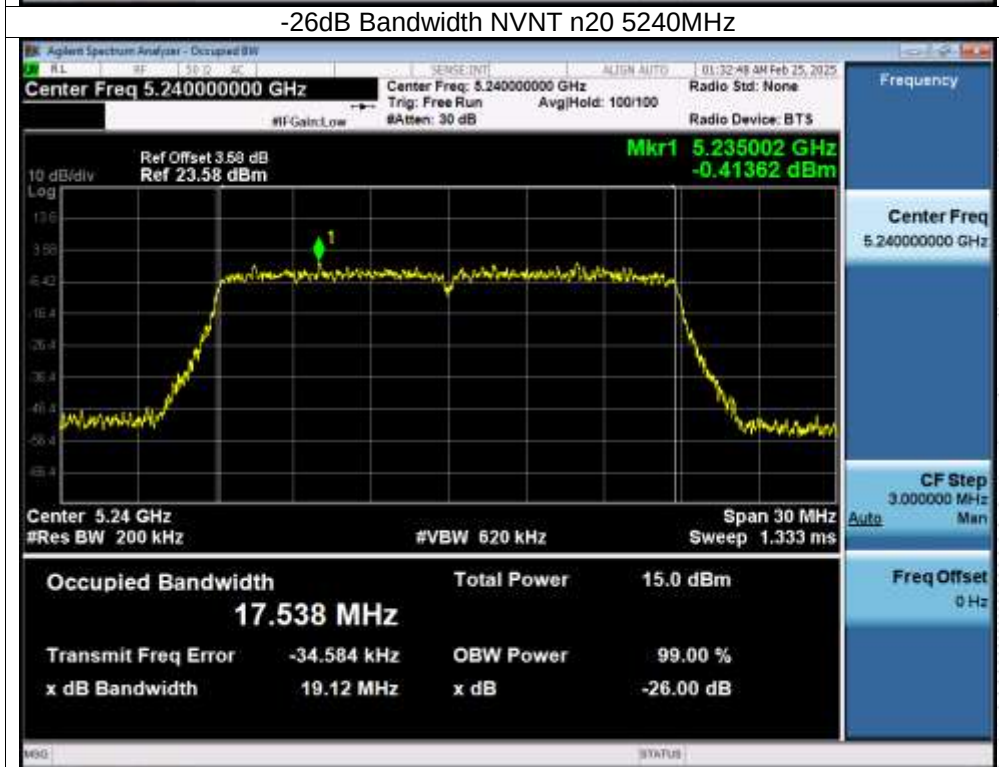
-26dB Bandwidth NVNT n20 5180MHz



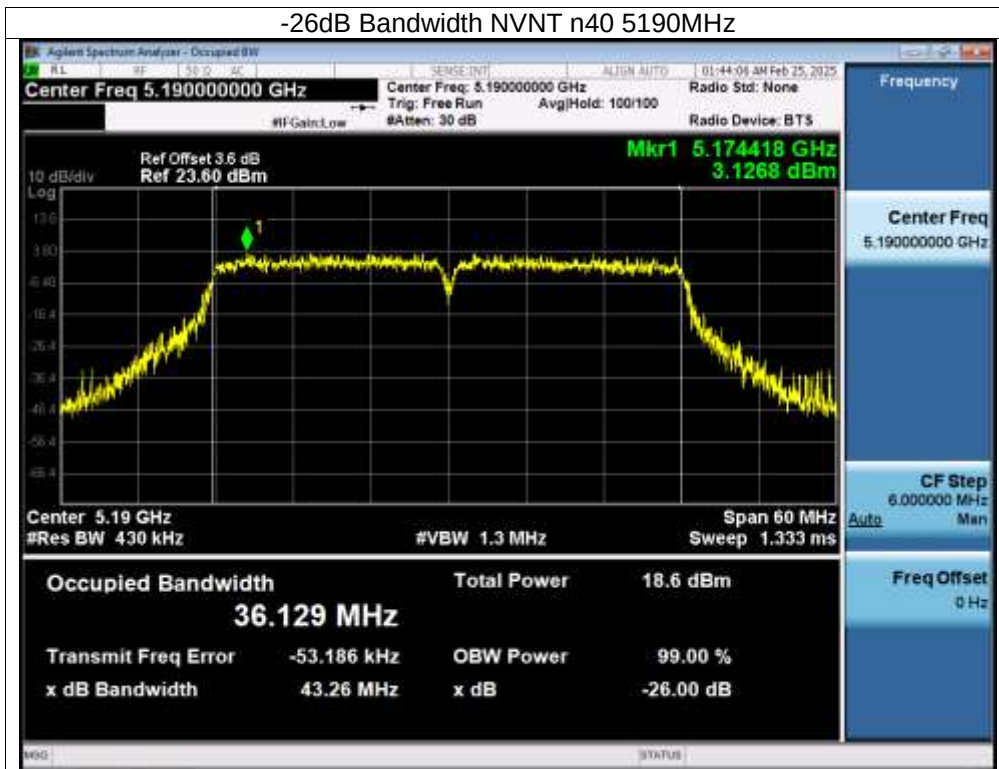
-26dB Bandwidth NVNT n20 5200MHz



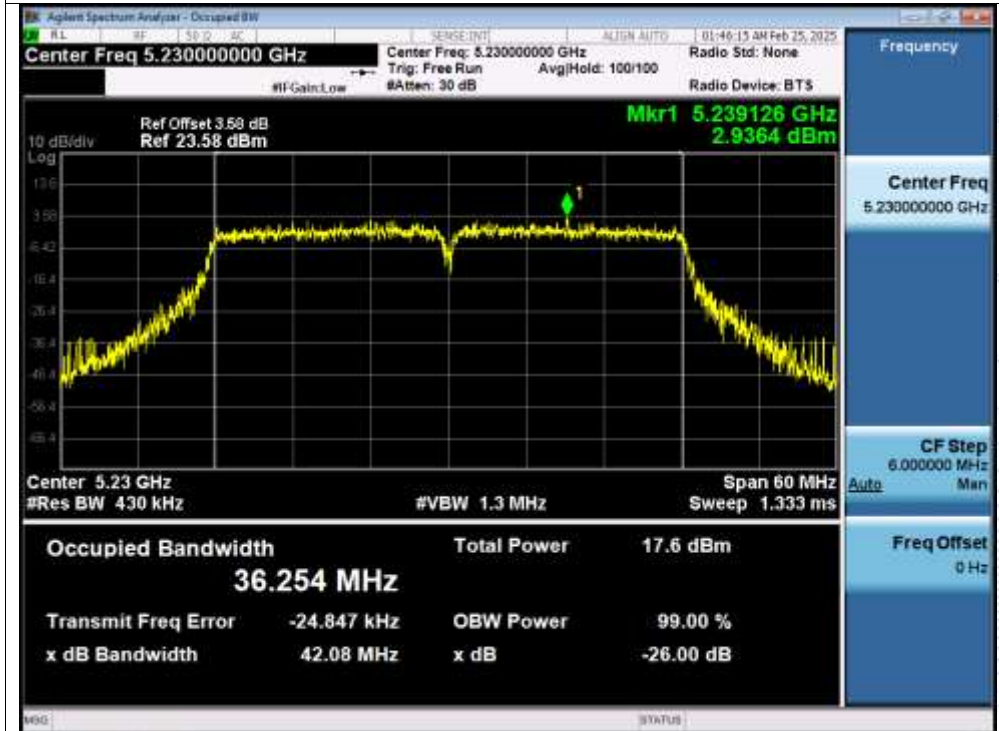
-26dB Bandwidth NVNT n20 5240MHz



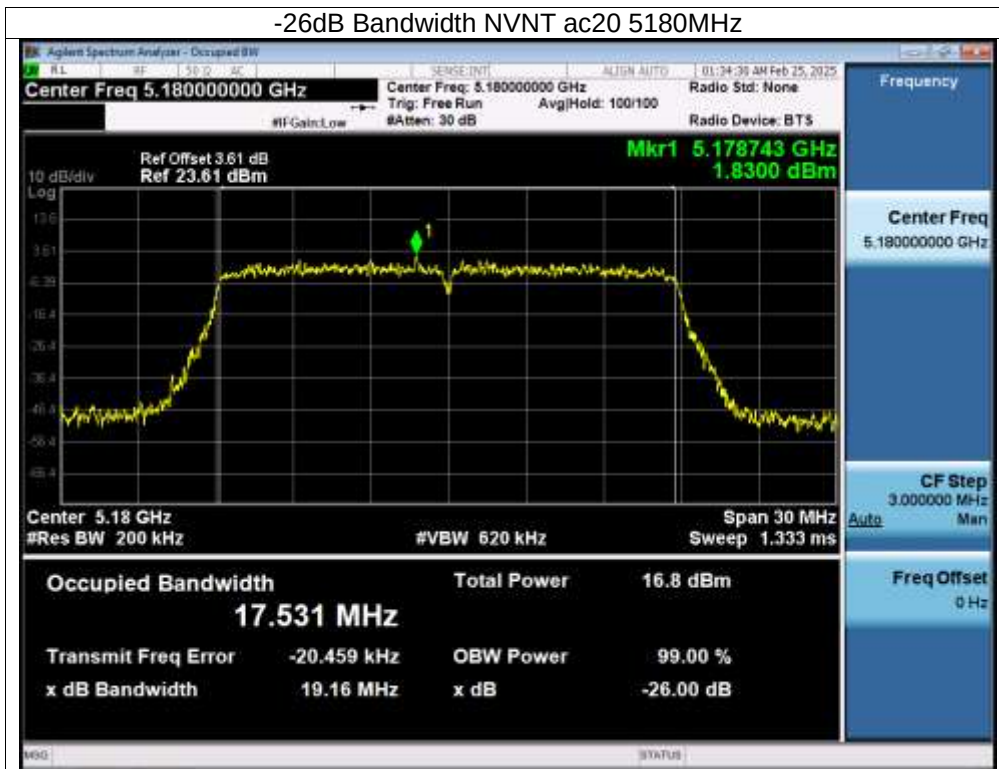
-26dB Bandwidth NVNT n40 5190MHz



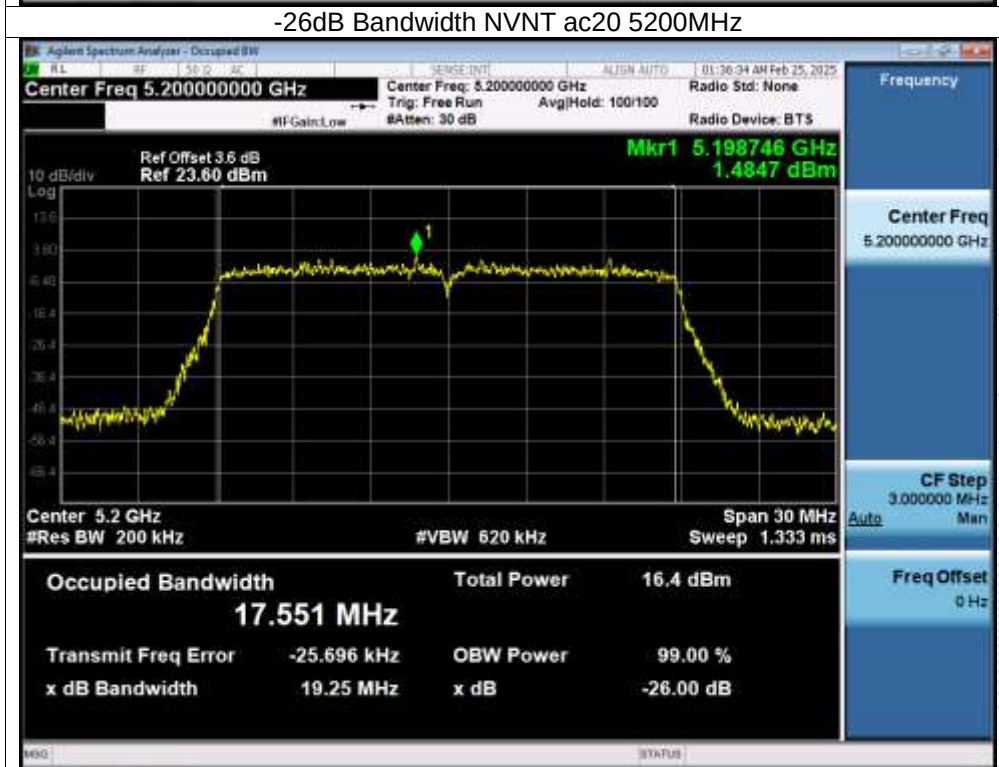
-26dB Bandwidth NVNT n40 5230MHz



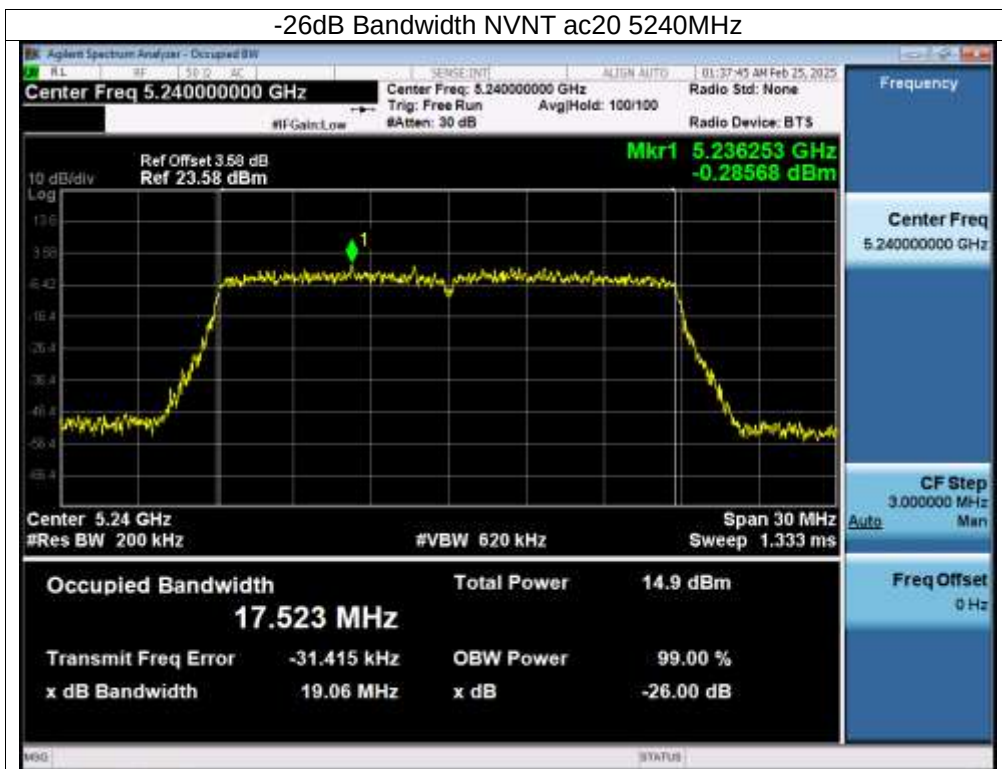
-26dB Bandwidth NVNT ac20 5180MHz



-26dB Bandwidth NVNT ac20 5200MHz



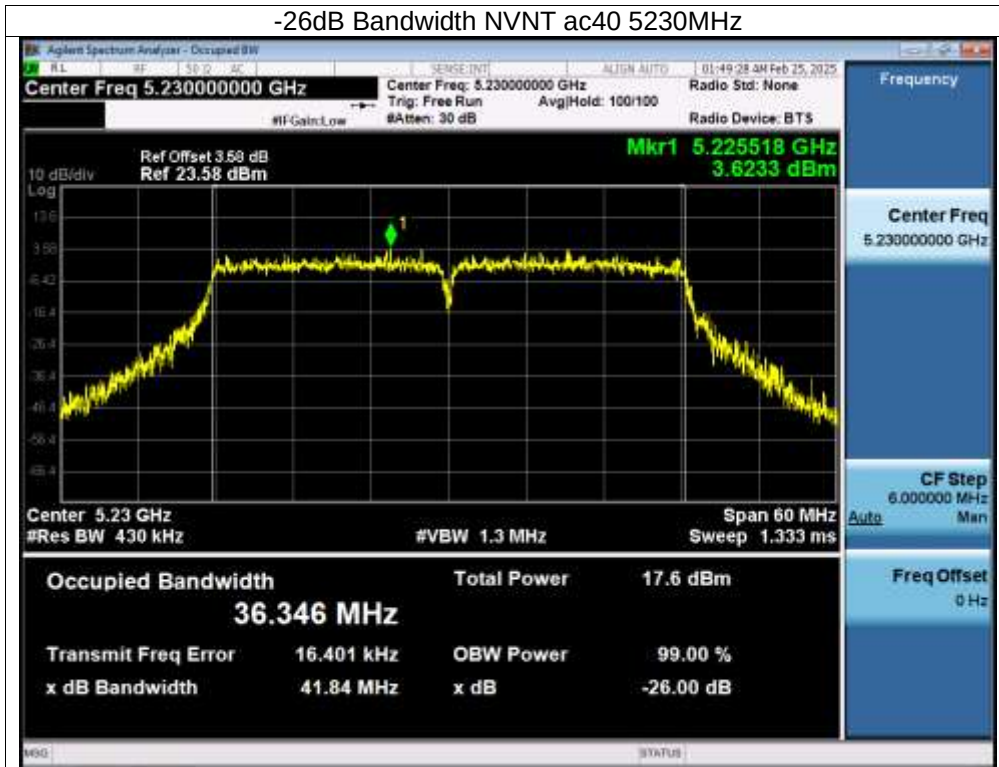
-26dB Bandwidth NVNT ac20 5240MHz



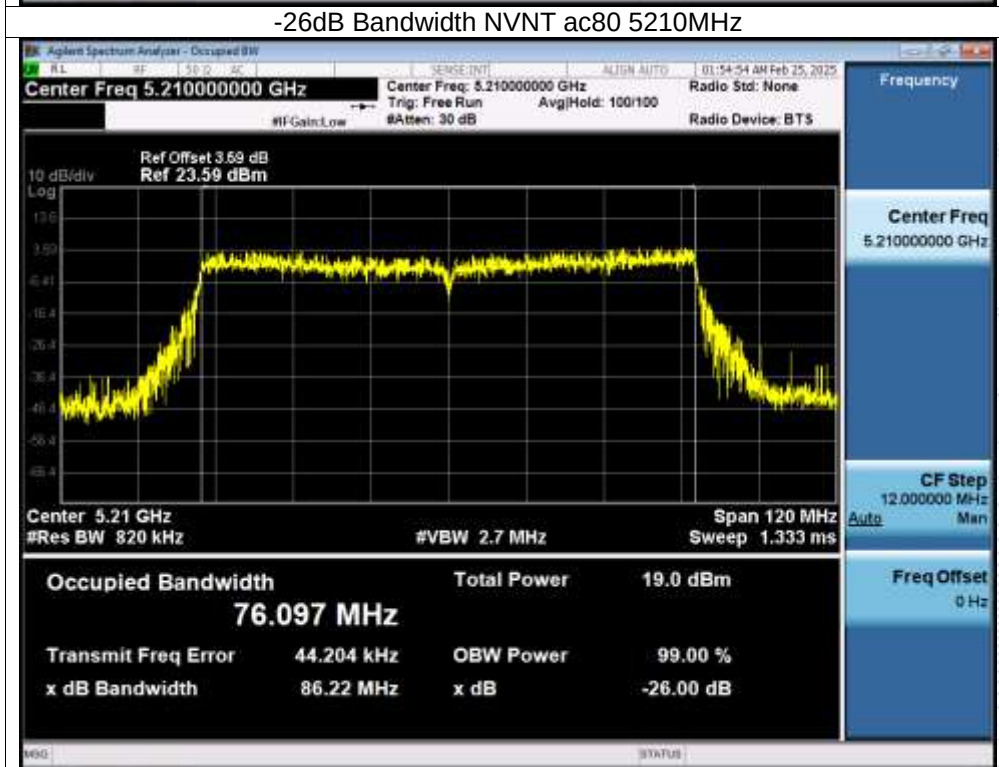
-26dB Bandwidth NVNT ac40 5190MHz



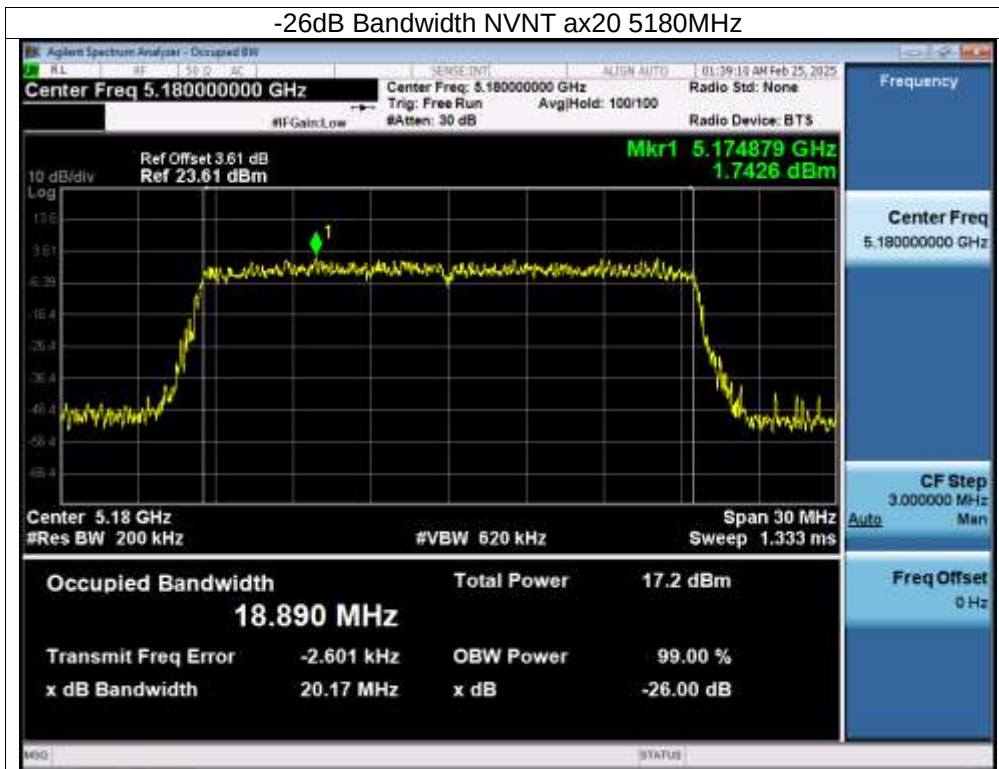
-26dB Bandwidth NVNT ac40 5230MHz



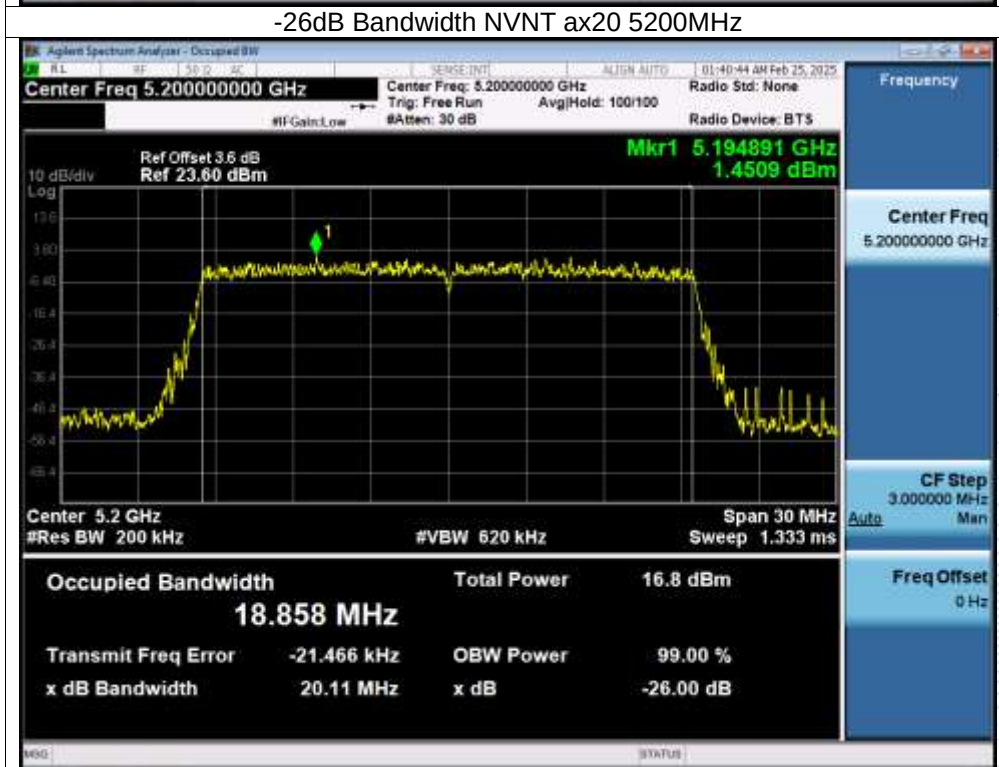
-26dB Bandwidth NVNT ac80 5210MHz



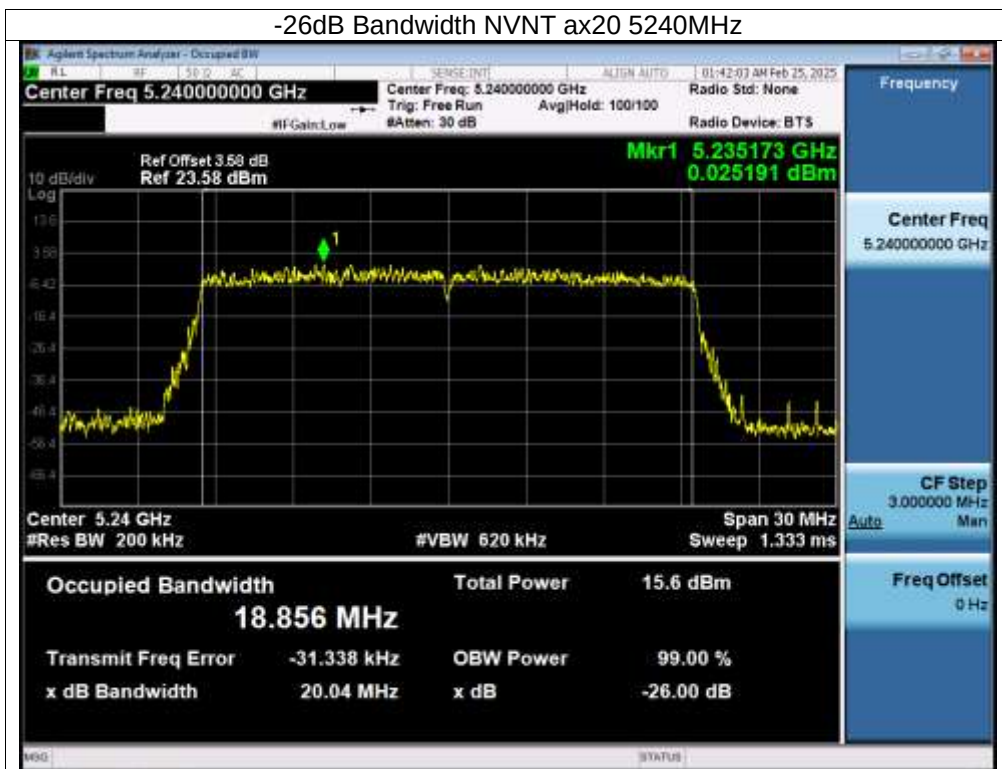
-26dB Bandwidth NVNT ax20 5180MHz



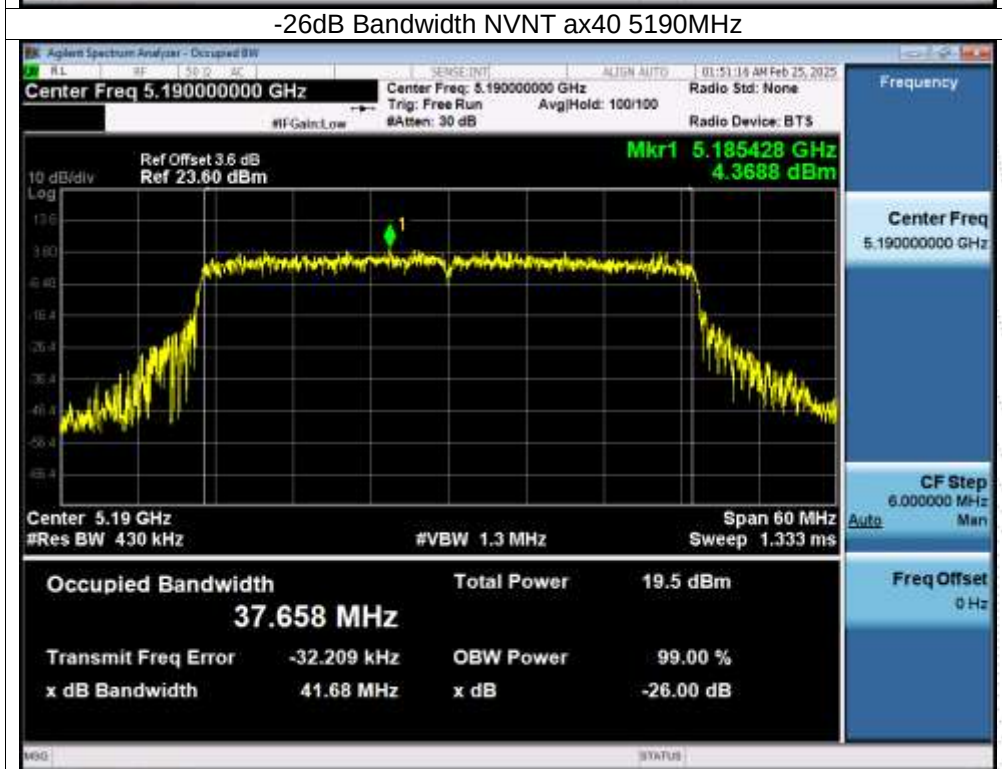
-26dB Bandwidth NVNT ax20 5200MHz



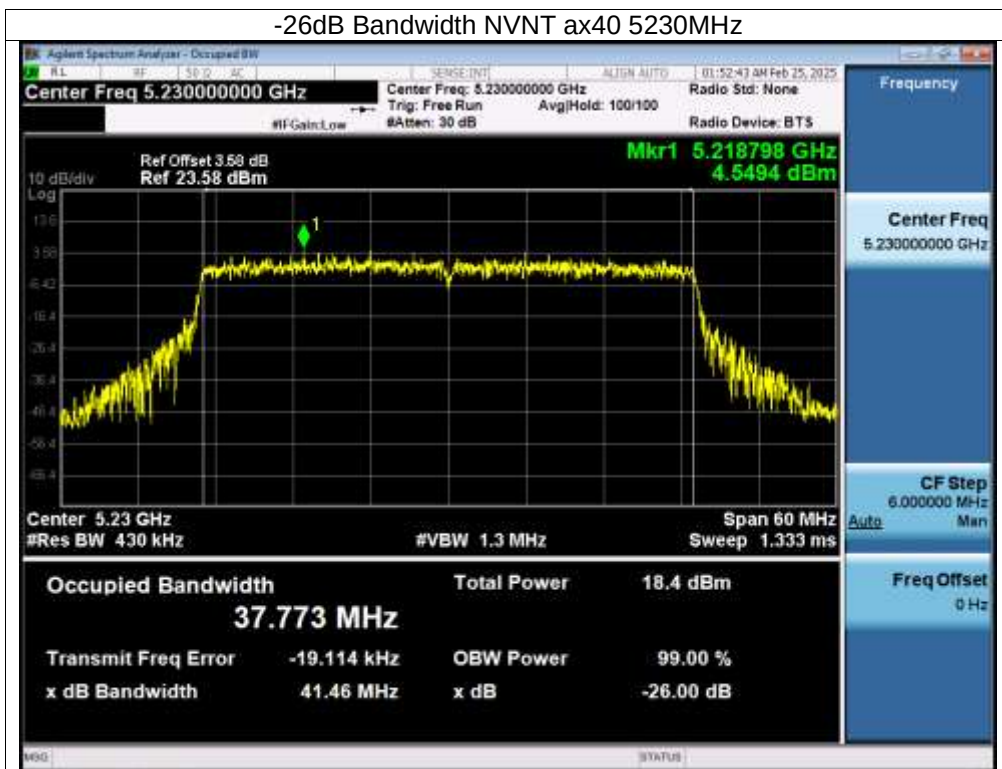
-26dB Bandwidth NVNT ax20 5240MHz



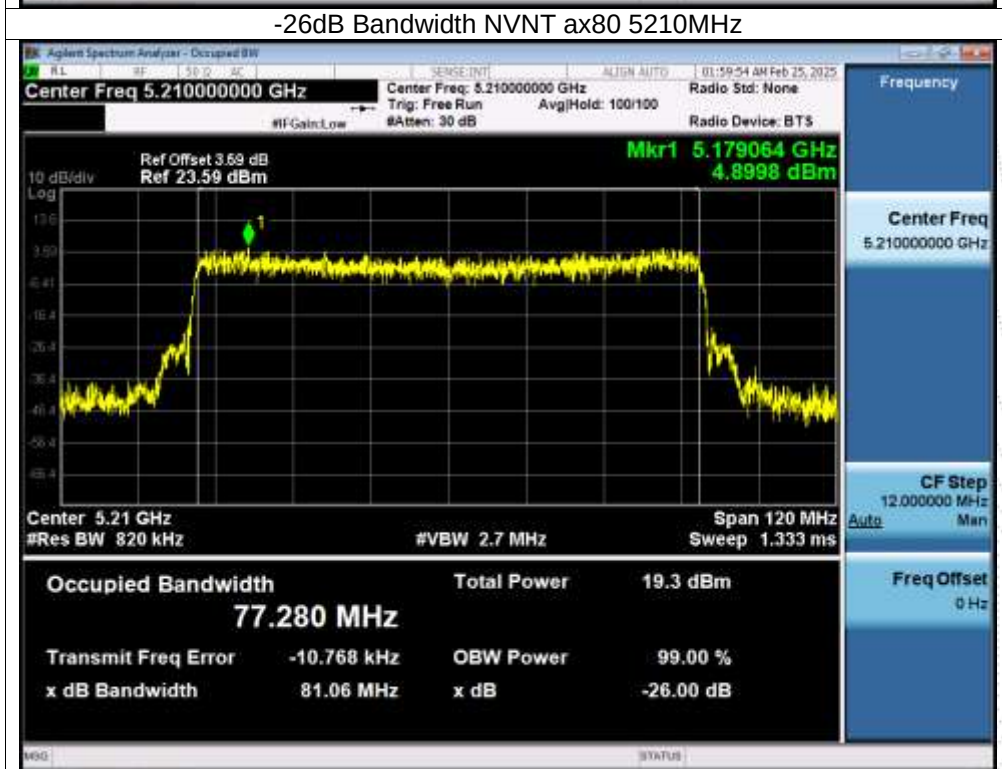
-26dB Bandwidth NVNT ax40 5190MHz



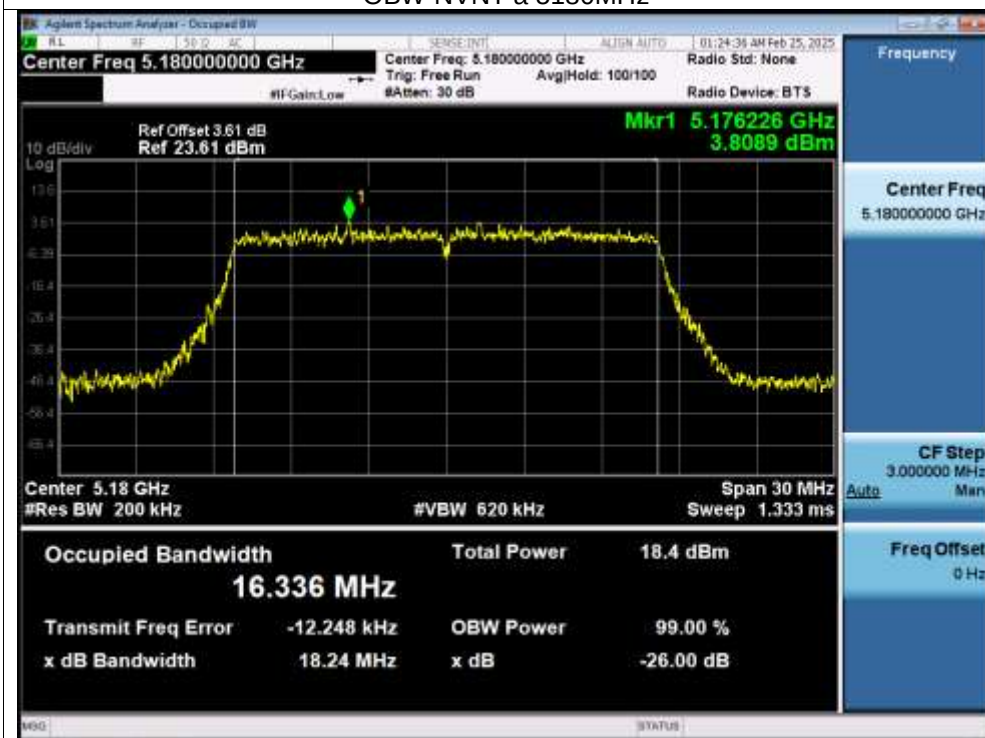
-26dB Bandwidth NVNT ax40 5230MHz



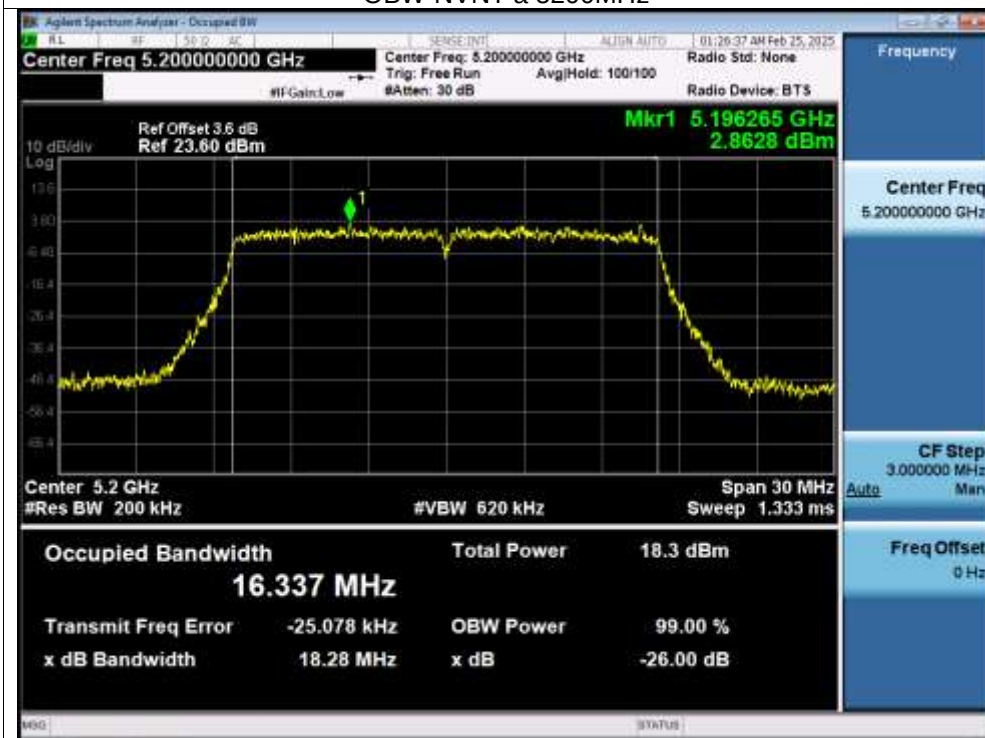
-26dB Bandwidth NVNT ax80 5210MHz



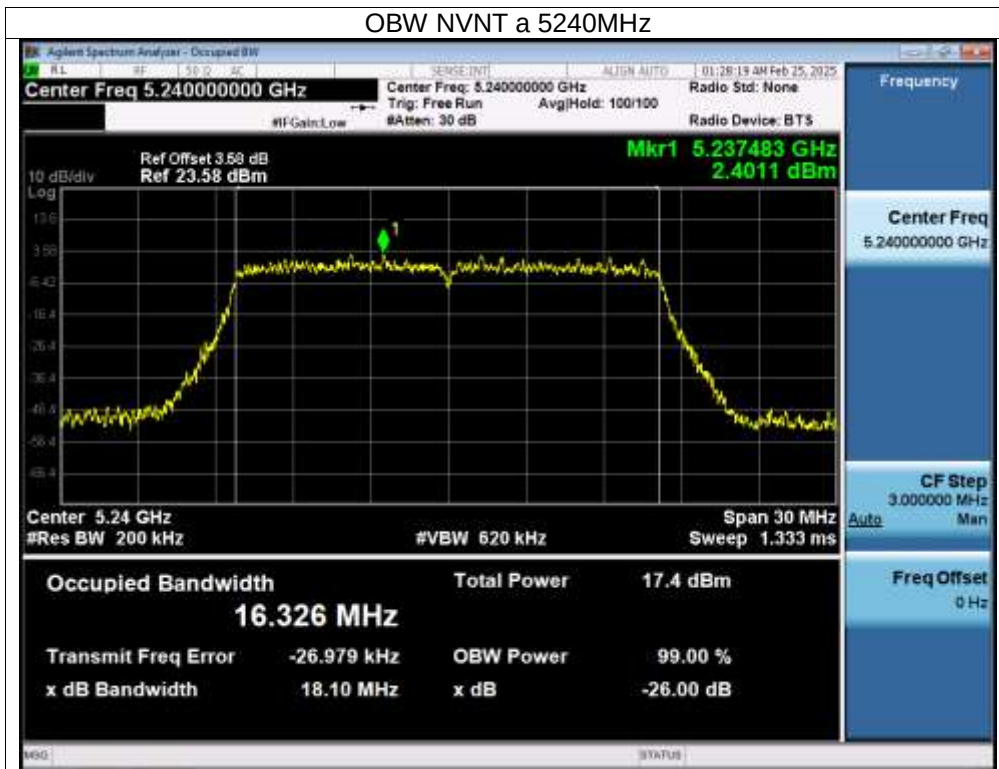
Test Graphs
OBW NVNT a 5180MHz



OBW NVNT a 5200MHz



OBW NVNT a 5240MHz



OBW NVNT n20 5180MHz

