TEST REPORT

Report No.:	BCTC2501199178-4E
Applicant:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Product Name:	Smart Phone
Test Model:	C61
Tested Date:	2025-01-03 to 2025-02-07
Issued Date:	2025-02-07

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2ANMU-25155

Product Name:	Smart Phone
Trademark:	OUKITEL
Model/Type reference:	C61 C61 E, C61 S, C61 Pro, C61 Plus, C61 Ultra, C61 GT
Prepared For:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Manufacturer:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX 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:	2025-01-03
Sample tested Date:	2025-01-03 to 2025-02-07
Issue Date:	2025-02-07
Report No.:	BCTC2501199178-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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

Table Of Content

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2501199178-4E	2025-02-07	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

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	C61 C61 E, C61 S, C61 Pro, C61 Plus, C61 Ultra, C61 GT
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	SC6030_U_MB_V1.0.1
Software Version:	OUKITEL_C61_EEA_V03
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna
Antenna Gain:	0.71 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 5V from Adapter/ DC 3.87V from battery
Adapter Information:	Model: HJ-0502000N2-US Input: 100-240V~ 50/60Hz 0.3A Output: 5.0V ⎓ 2.0A 10.0W

4.2 Test Setup Configuration

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

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	OUKITEL	C61	N/A	EUT
E-2	Adapter	N/A	HJ-0502000N2-US	N/A	Auxiliary
E-3	TF card	SanDisk	32G	---	---

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1M	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

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

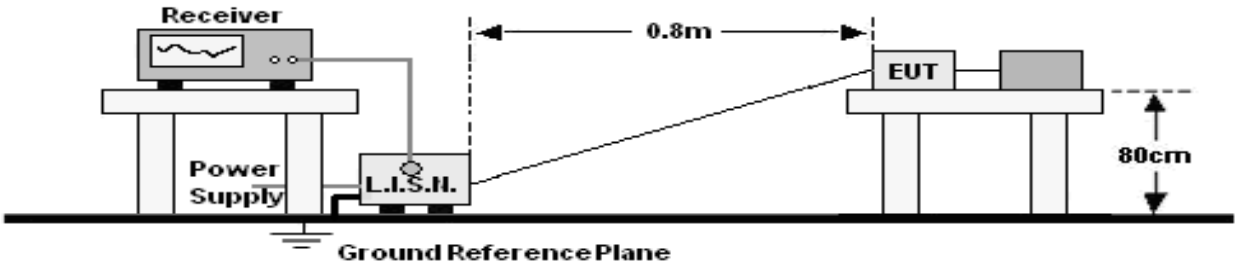
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	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
Communication test set	R&S	CMW500	126173	Nov 11, 2024	Nov 10, 2025
Radio frequency control box	MAIWEI	MW200-RFCB	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	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_01G18G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	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: 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

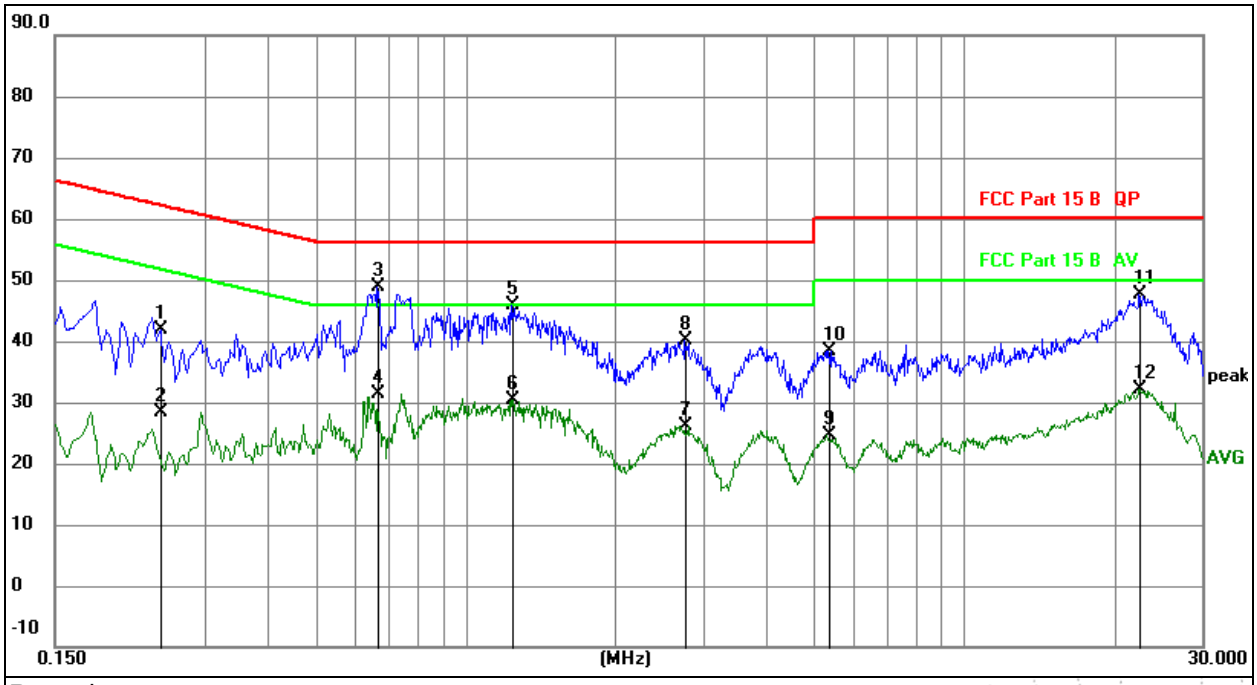
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

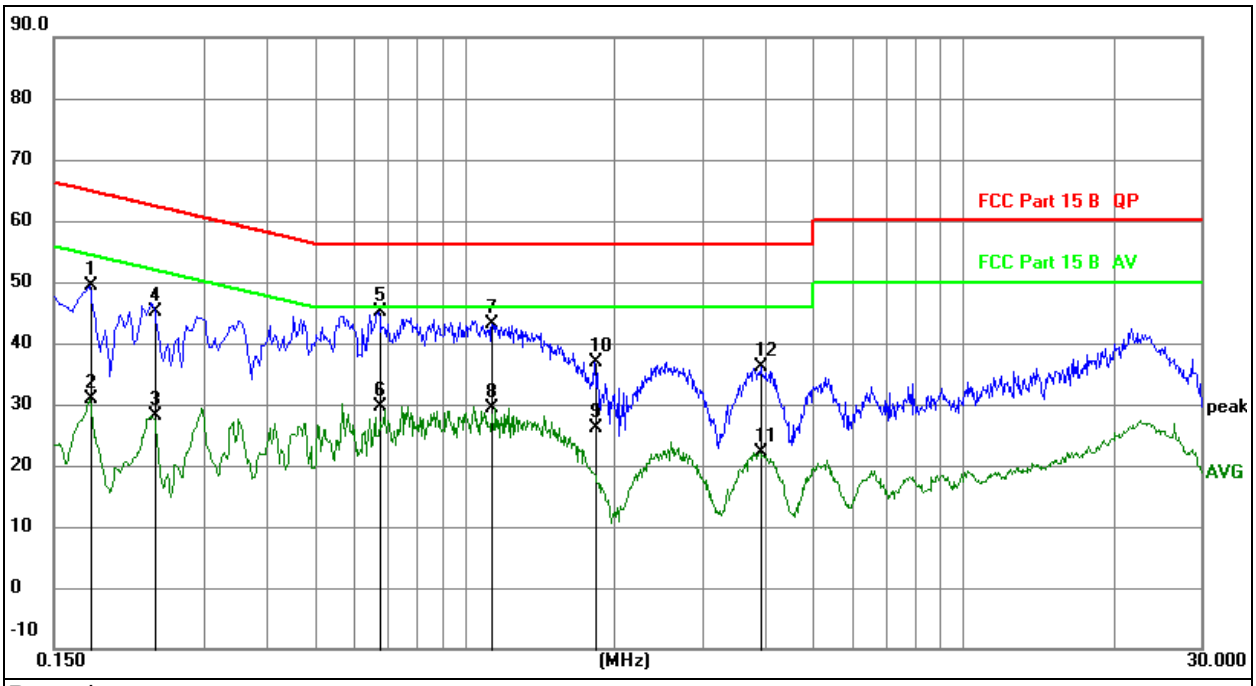
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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		0.2445	21.77	20.07	41.84	61.94	-20.10	QP
2		0.2445	8.39	20.07	28.46	51.94	-23.48	AVG
3	*	0.6675	28.68	20.09	48.77	56.00	-7.23	QP
4		0.6675	11.23	20.09	31.32	46.00	-14.68	AVG
5		1.2390	25.80	20.09	45.89	56.00	-10.11	QP
6		1.2390	10.33	20.09	30.42	46.00	-15.58	AVG
7		2.7554	6.05	20.12	26.17	46.00	-19.83	AVG
8		2.7554	19.93	20.12	40.05	56.00	-15.95	QP
9		5.3340	4.57	20.15	24.72	50.00	-25.28	AVG
10		5.3340	18.35	20.15	38.50	60.00	-21.50	QP
11		22.4205	27.36	20.32	47.68	60.00	-12.32	QP
12		22.4205	11.86	20.32	32.18	50.00	-17.82	AVG

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



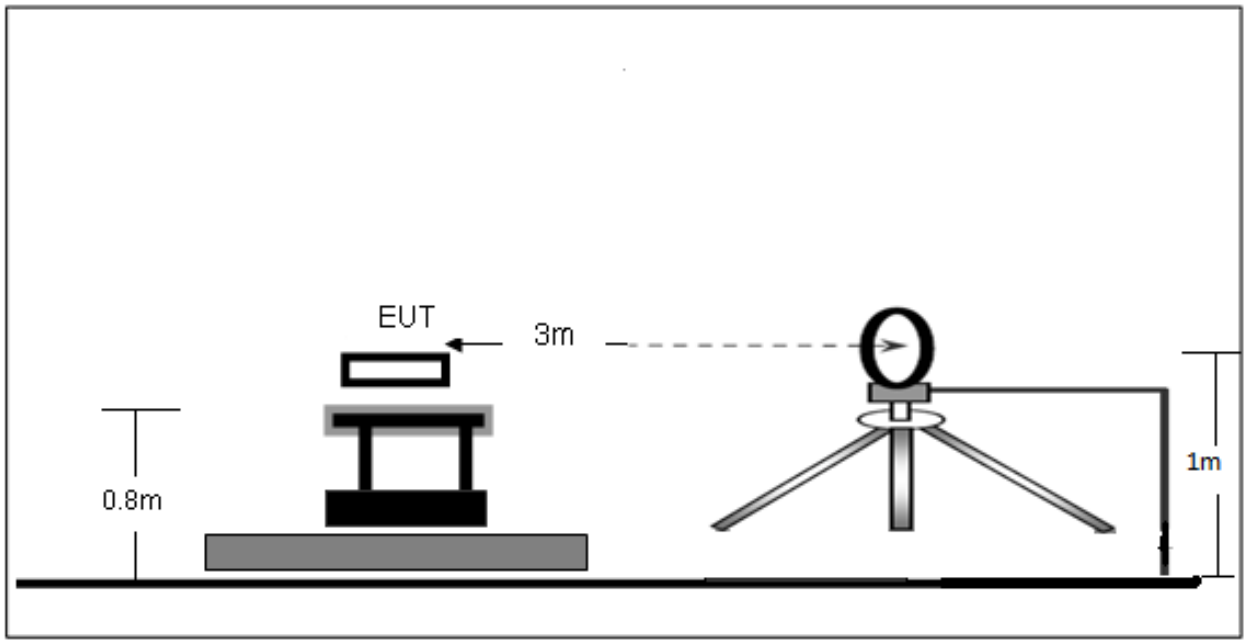
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1768	29.22	20.07	49.29	64.63	-15.34	QP
2		0.1768	10.92	20.07	30.99	54.63	-23.64	AVG
3		0.2391	7.99	20.07	28.06	52.13	-24.07	AVG
4		0.2391	25.18	20.07	45.25	62.13	-16.88	QP
5	*	0.6719	25.02	20.09	45.11	56.00	-10.89	QP
6		0.6719	9.61	20.09	29.70	46.00	-16.30	AVG
7		1.1352	23.07	20.09	43.16	56.00	-12.84	QP
8		1.1352	9.28	20.09	29.37	46.00	-16.63	AVG
9		1.8192	6.15	20.10	26.25	46.00	-19.75	AVG
10		1.8192	16.72	20.10	36.82	56.00	-19.18	QP
11		3.9222	1.95	20.14	22.09	46.00	-23.91	AVG
12		3.9222	16.08	20.14	36.22	56.00	-19.78	QP

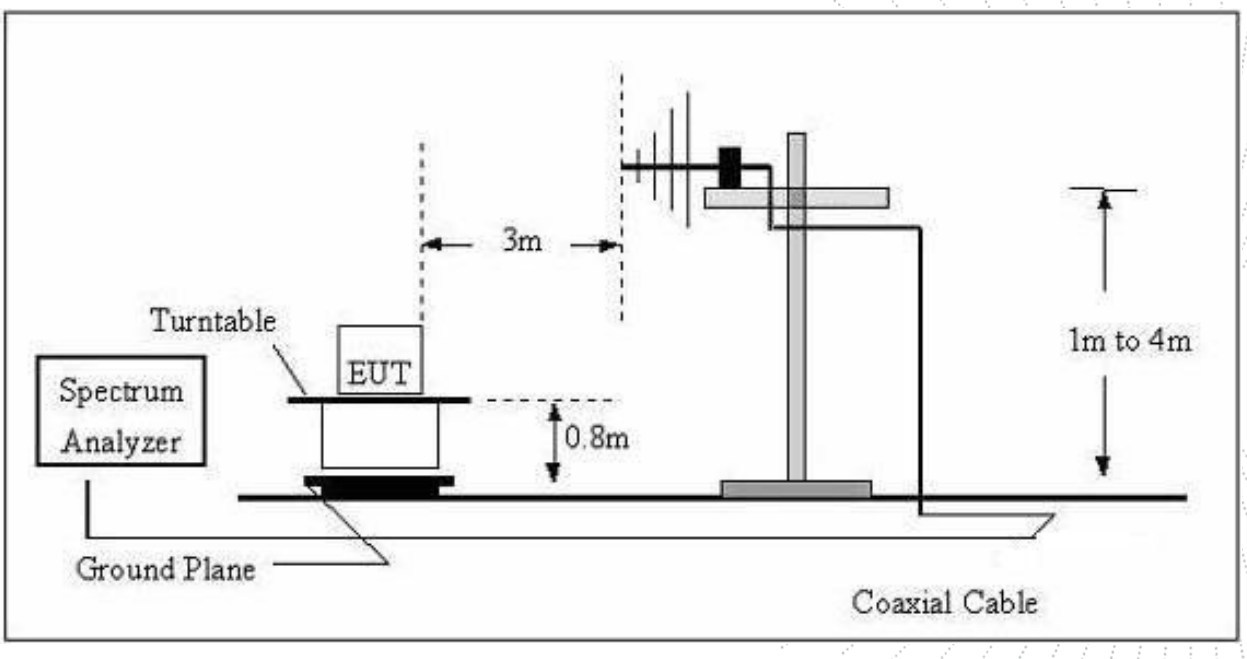
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

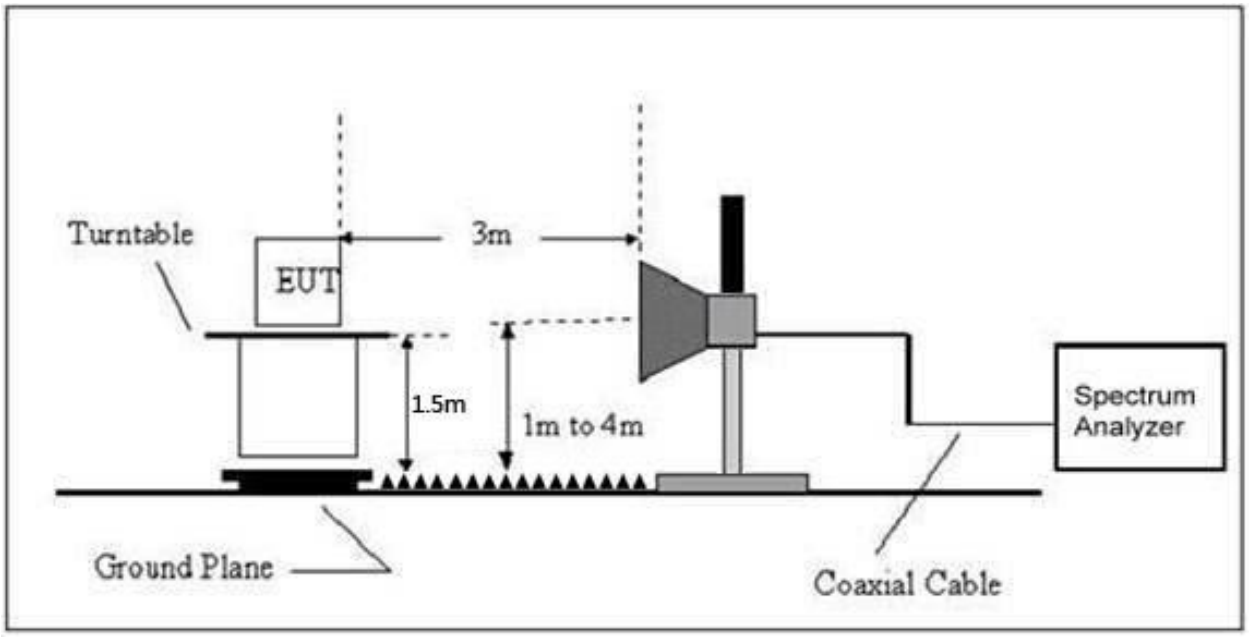
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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

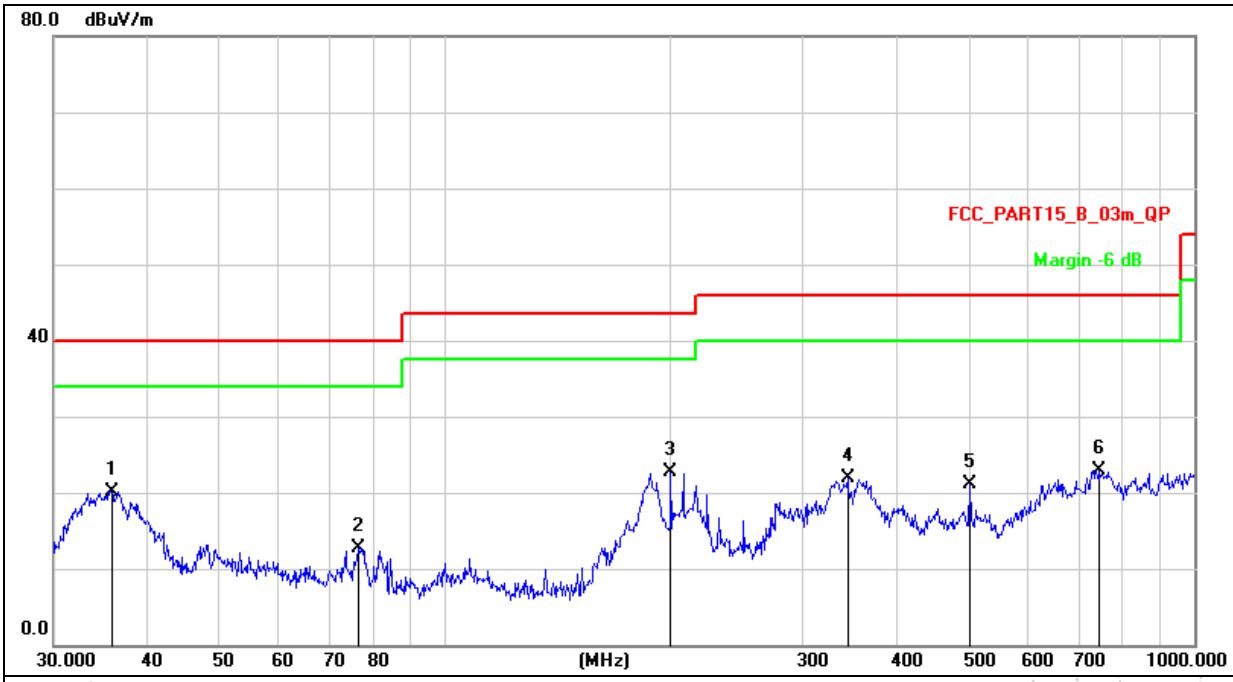
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

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

Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

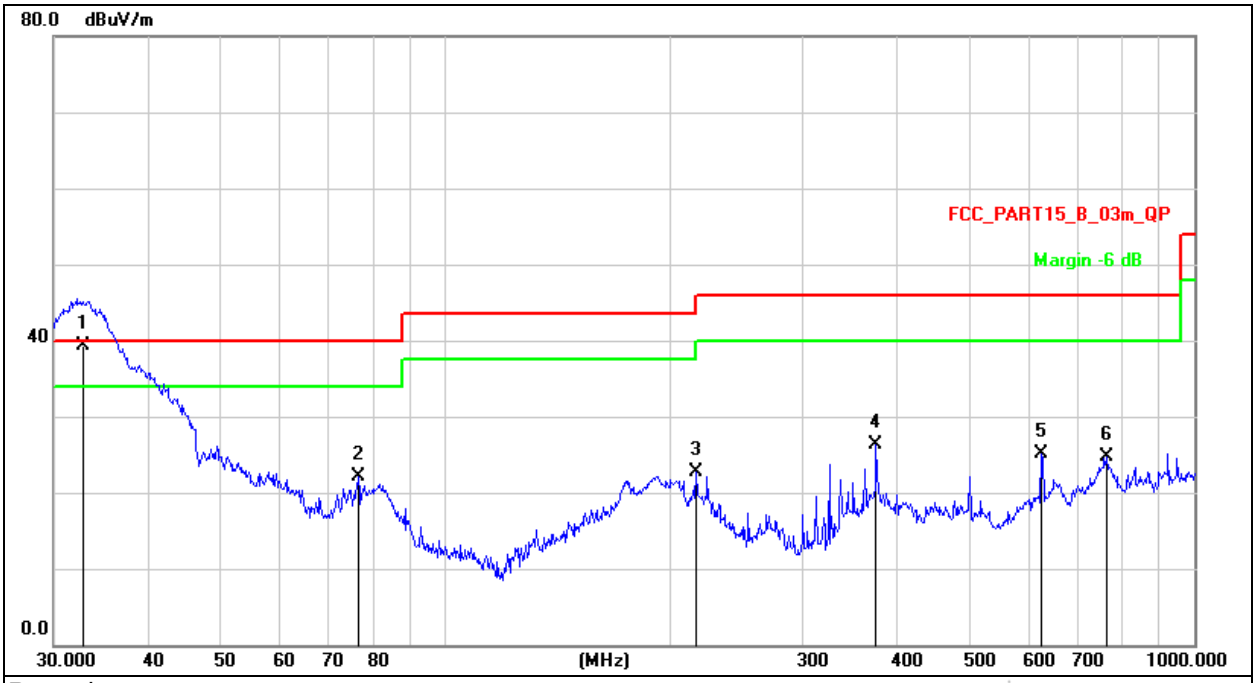
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	35.8746	35.64	-15.52	20.12	40.00	-19.88	QP
2		76.5121	31.80	-19.14	12.66	40.00	-27.34	QP
3		199.9856	38.45	-15.72	22.73	43.50	-20.77	QP
4		344.3855	33.53	-11.68	21.85	46.00	-24.15	QP
5		501.1790	29.85	-8.65	21.20	46.00	-24.80	QP
6		747.4825	27.85	-5.03	22.82	46.00	-23.18	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.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	32.9380	55.38	-16.08	39.30	40.00	-0.70	QP
2		76.5121	41.17	-19.14	22.03	40.00	-17.97	QP
3		216.0240	37.89	-15.26	22.63	46.00	-23.37	QP
4		375.9384	37.55	-11.15	26.40	46.00	-19.60	QP
5		625.0779	31.78	-6.59	25.19	46.00	-20.81	QP
6		763.3757	29.53	-4.83	24.70	46.00	-21.30	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.114	72.36	-20.73	51.62	68.2	-16.58	PK
Vertical	4434.114	59.63	-20.73	38.90	54	-15.10	AV
Vertical	10360.140	62.52	-9.36	53.16	68.2	-15.04	PK
Vertical	10360.140	49.43	-9.36	40.07	54	-13.93	AV
Vertical	15540.128	61.69	-7.84	53.85	74	-20.15	PK
Vertical	15540.128	49.46	-7.84	41.62	54	-12.38	AV
Horizontal	4434.028	70.28	-20.73	49.55	68.2	-18.65	PK
Horizontal	4434.028	59.53	-20.73	38.80	54	-15.20	AV
Horizontal	10360.028	62.00	-9.36	52.64	68.2	-15.56	PK
Horizontal	10360.028	49.55	-9.36	40.19	54	-13.81	AV
Horizontal	15540.002	60.16	-7.84	52.32	74	-21.68	PK
Horizontal	15540.002	49.43	-7.84	41.59	54	-12.41	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.067	71.86	-20.42	51.44	74	-22.56	PK
Vertical	4592.067	59.00	-20.42	38.59	54	-15.41	AV
Vertical	10400.123	62.15	-9.30	52.85	68.2	-15.35	PK
Vertical	10400.123	49.08	-9.30	39.78	54	-14.22	AV
Vertical	15600.113	64.57	-7.82	56.75	74	-17.25	PK
Vertical	15600.113	49.80	-7.82	41.98	54	-12.02	AV
Horizontal	4592.156	74.67	-20.42	54.25	74	-19.75	PK
Horizontal	4592.156	59.06	-20.42	38.65	54	-15.35	AV
Horizontal	10400.155	64.85	-9.30	55.55	68.2	-12.65	PK
Horizontal	10400.155	49.36	-9.30	40.06	54	-13.94	AV
Horizontal	15600.154	60.28	-7.82	52.46	74	-21.54	PK
Horizontal	15600.154	50.00	-7.82	42.18	54	-11.82	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.107	72.61	-20.12	52.48	74	-21.52	PK
Vertical	4739.107	59.19	-20.12	39.06	54	-14.94	AV
Vertical	10480.189	64.81	-9.18	55.63	68.2	-12.57	PK
Vertical	10480.189	49.46	-9.18	40.28	54	-13.72	AV
Vertical	15720.052	63.98	-7.78	56.20	74	-17.80	PK
Vertical	15720.052	49.03	-7.78	41.25	54	-12.75	AV
Horizontal	4739.179	71.88	-20.12	51.76	74	-22.24	PK
Horizontal	4739.179	59.34	-20.12	39.22	54	-14.78	AV
Horizontal	10480.047	62.12	-9.18	52.94	68.2	-15.26	PK
Horizontal	10480.047	49.06	-9.18	39.88	54	-14.12	AV
Horizontal	15720.115	61.47	-7.78	53.69	74	-20.31	PK
Horizontal	15720.115	49.77	-7.78	41.99	54	-12.01	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.022	71.01	-20.73	50.28	68.2	-17.92	PK
Vertical	4434.022	59.26	-20.73	38.53	54	-15.47	AV
Vertical	10360.072	63.76	-9.36	54.40	68.2	-13.80	PK
Vertical	10360.072	49.62	-9.36	40.26	54	-13.74	AV
Vertical	15540.161	63.51	-7.84	55.67	74	-18.33	PK
Vertical	15540.161	49.13	-7.84	41.29	54	-12.71	AV
Horizontal	4434.121	74.13	-20.73	53.40	68.2	-14.80	PK
Horizontal	4434.121	59.90	-20.73	39.17	54	-14.83	AV
Horizontal	10360.122	63.32	-9.36	53.96	68.2	-14.24	PK
Horizontal	10360.122	49.29	-9.36	39.93	54	-14.07	AV
Horizontal	15540.094	60.95	-7.84	53.11	74	-20.89	PK
Horizontal	15540.094	49.90	-7.84	42.06	54	-11.94	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.126	70.10	-20.42	49.68	74	-24.32	PK
Vertical	4592.126	59.37	-20.42	38.96	54	-15.04	AV
Vertical	10400.165	61.65	-9.30	52.35	68.2	-15.85	PK
Vertical	10400.165	49.38	-9.30	40.08	54	-13.92	AV
Vertical	15600.196	61.12	-7.82	53.30	74	-20.70	PK
Vertical	15600.196	49.36	-7.82	41.54	54	-12.46	AV
Horizontal	4592.103	73.75	-20.42	53.33	74	-20.67	PK
Horizontal	4592.103	59.97	-20.42	39.55	54	-14.45	AV
Horizontal	10400.161	64.24	-9.30	54.94	68.2	-13.26	PK
Horizontal	10400.161	49.37	-9.30	40.07	54	-13.93	AV
Horizontal	15600.044	62.34	-7.82	54.52	74	-19.48	PK
Horizontal	15600.044	49.17	-7.82	41.35	54	-12.65	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.163	74.61	-20.12	54.48	74	-19.52	PK
Vertical	4739.163	59.28	-20.12	39.16	54	-14.84	AV
Vertical	10480.190	64.27	-9.18	55.09	68.2	-13.11	PK
Vertical	10480.190	49.33	-9.18	40.15	54	-13.85	AV
Vertical	15720.010	61.29	-7.78	53.51	74	-20.49	PK
Vertical	15720.010	49.35	-7.78	41.57	54	-12.43	AV
Horizontal	4739.053	73.62	-20.12	53.50	74	-20.50	PK
Horizontal	4739.053	59.62	-20.12	39.50	54	-14.50	AV
Horizontal	10480.086	62.46	-9.18	53.28	68.2	-14.92	PK
Horizontal	10480.086	49.88	-9.18	40.70	54	-13.30	AV
Horizontal	15720.110	63.68	-7.78	55.90	74	-18.10	PK
Horizontal	15720.110	49.41	-7.78	41.63	54	-12.37	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.193	72.31	-20.73	51.58	68.2	-16.62	PK
Vertical	4434.193	59.57	-20.73	38.84	54	-15.16	AV
Vertical	10380.065	60.80	-9.33	51.47	68.2	-16.73	PK
Vertical	10380.065	49.18	-9.33	39.85	54	-14.15	AV
Vertical	15570.158	61.54	-7.83	53.71	74	-20.29	PK
Vertical	15570.158	49.62	-7.83	41.79	54	-12.21	AV
Horizontal	4434.185	72.93	-20.73	52.20	74	-21.80	PK
Horizontal	4434.185	59.34	-20.73	38.61	54	-15.39	AV
Horizontal	10380.048	60.49	-9.33	51.16	68.2	-17.04	PK
Horizontal	10380.048	49.25	-9.33	39.92	54	-14.08	AV
Horizontal	15570.066	61.01	-7.83	53.18	74	-20.82	PK
Horizontal	15570.066	49.78	-7.83	41.95	54	-12.05	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.151	71.43	-20.12	51.31	68.2	-16.89	PK
Vertical	4739.151	59.21	-20.12	39.09	54	-14.91	AV
Vertical	10460.131	62.71	-9.21	53.50	68.2	-14.70	PK
Vertical	10460.131	49.80	-9.21	40.59	54	-13.41	AV
Vertical	15690.037	60.85	-7.79	53.06	74	-20.94	PK
Vertical	15690.037	49.08	-7.79	41.29	54	-12.71	AV
Horizontal	4739.131	72.66	-20.12	52.53	68.2	-15.67	PK
Horizontal	4739.131	59.97	-20.12	39.85	54	-14.15	AV
Horizontal	10460.023	60.53	-9.21	51.32	68.2	-16.88	PK
Horizontal	10460.023	49.59	-9.21	40.38	54	-13.62	AV
Horizontal	15690.115	62.41	-7.79	54.62	74	-19.38	PK
Horizontal	15690.115	49.16	-7.79	41.37	54	-12.63	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.059	73.57	-20.73	52.84	68.2	-15.36	PK
Vertical	4434.059	59.28	-20.73	38.54	54	-15.46	AV
Vertical	10360.019	64.23	-9.36	54.87	68.2	-13.33	PK
Vertical	10360.019	49.49	-9.36	40.13	54	-13.87	AV
Vertical	15540.018	62.43	-7.84	54.59	74	-19.41	PK
Vertical	15540.018	49.15	-7.84	41.31	54	-12.69	AV
Horizontal	4434.037	74.23	-20.73	53.50	68.2	-14.70	PK
Horizontal	4434.037	59.91	-20.73	39.18	54	-14.82	AV
Horizontal	10360.135	61.13	-9.36	51.77	68.2	-16.43	PK
Horizontal	10360.135	49.76	-9.36	40.40	54	-13.60	AV
Horizontal	15540.066	61.99	-7.84	54.15	74	-19.85	PK
Horizontal	15540.066	49.30	-7.84	41.46	54	-12.54	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.067	74.71	-20.42	54.29	74	-19.71	PK
Vertical	4592.067	59.44	-20.42	39.03	54	-14.97	AV
Vertical	10400.039	63.57	-9.30	54.27	68.2	-13.93	PK
Vertical	10400.039	49.10	-9.30	39.80	54	-14.20	AV
Vertical	15600.163	60.86	-7.82	53.04	74	-20.96	PK
Vertical	15600.163	49.31	-7.82	41.49	54	-12.51	AV
Horizontal	4592.003	70.56	-20.42	50.14	74	-23.86	PK
Horizontal	4592.003	59.66	-20.42	39.24	54	-14.76	AV
Horizontal	10400.116	62.01	-9.30	52.71	68.2	-15.49	PK
Horizontal	10400.116	49.69	-9.30	40.39	54	-13.61	AV
Horizontal	15600.037	63.37	-7.82	55.55	74	-18.45	PK
Horizontal	15600.037	49.21	-7.82	41.39	54	-12.61	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.031	73.22	-20.12	53.10	74	-20.90	PK
Vertical	4739.031	59.85	-20.12	39.72	54	-14.28	AV
Vertical	10480.097	62.27	-9.18	53.09	68.2	-15.11	PK
Vertical	10480.097	49.87	-9.18	40.69	54	-13.31	AV
Vertical	15720.156	62.07	-7.78	54.29	74	-19.71	PK
Vertical	15720.156	49.61	-7.78	41.83	54	-12.17	AV
Horizontal	4739.084	74.84	-20.12	54.72	74	-19.28	PK
Horizontal	4739.084	59.11	-20.12	38.99	54	-15.01	AV
Horizontal	10480.076	61.20	-9.18	52.02	68.2	-16.18	PK
Horizontal	10480.076	49.92	-9.18	40.74	54	-13.26	AV
Horizontal	15720.074	60.82	-7.78	53.04	74	-20.96	PK
Horizontal	15720.074	49.43	-7.78	41.65	54	-12.35	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.002	73.03	-20.73	52.29	68.2	-15.91	PK
Vertical	4434.002	59.59	-20.73	38.86	54	-15.14	AV
Vertical	10380.062	61.54	-9.33	52.21	68.2	-15.99	PK
Vertical	10380.062	49.64	-9.33	40.31	54	-13.69	AV
Vertical	15570.134	63.34	-7.83	55.51	74	-18.49	PK
Vertical	15570.134	49.46	-7.83	41.63	54	-12.37	AV
Horizontal	4434.033	73.42	-20.73	52.69	74	-21.31	PK
Horizontal	4434.033	59.42	-20.73	38.68	54	-15.32	AV
Horizontal	10380.189	60.03	-9.33	50.70	68.2	-17.50	PK
Horizontal	10380.189	49.02	-9.33	39.69	54	-14.31	AV
Horizontal	15570.139	61.19	-7.83	53.36	74	-20.64	PK
Horizontal	15570.139	49.79	-7.83	41.96	54	-12.04	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.161	74.33	-20.12	54.21	68.2	-13.99	PK
Vertical	4739.161	59.56	-20.12	39.43	54	-14.57	AV
Vertical	10460.174	63.98	-9.21	54.77	68.2	-13.43	PK
Vertical	10460.174	49.44	-9.21	40.23	54	-13.77	AV
Vertical	15690.198	64.01	-7.79	56.22	74	-17.78	PK
Vertical	15690.198	49.58	-7.79	41.79	54	-12.21	AV
Horizontal	4739.184	73.37	-20.12	53.25	68.2	-14.95	PK
Horizontal	4739.184	59.75	-20.12	39.63	54	-14.37	AV
Horizontal	10460.105	61.73	-9.21	52.52	68.2	-15.68	PK
Horizontal	10460.105	49.85	-9.21	40.64	54	-13.36	AV
Horizontal	15690.055	63.48	-7.79	55.69	74	-18.31	PK
Horizontal	15690.055	49.99	-7.79	42.20	54	-11.80	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.114	73.29	-20.73	52.56	68.2	-15.64	PK
Vertical	4434.114	59.14	-20.73	38.41	54	-15.59	AV
Vertical	10420.043	64.85	-9.27	55.58	68.2	-12.62	PK
Vertical	10420.043	49.59	-9.27	40.32	54	-13.68	AV
Vertical	15630.153	61.56	-7.81	53.75	74	-20.25	PK
Vertical	15630.153	49.48	-7.81	41.67	54	-12.33	AV
Horizontal	4434.024	73.12	-20.73	52.39	68.2	-15.81	PK
Horizontal	4434.024	59.33	-20.73	38.60	54	-15.40	AV
Horizontal	10420.188	43.95	9.27	53.22	68.2	-14.98	PK
Horizontal	10420.188	29.07	9.27	38.34	54	-15.66	AV
Horizontal	15630.007	61.10	-7.81	53.29	74	-20.71	PK
Horizontal	15630.007	49.21	-7.81	41.40	54	-12.60	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.097	73.62	-20.24	53.38	74	-20.62	PK
Vertical	4679.097	59.46	-20.24	39.22	54	-14.78	AV
Vertical	11490.193	60.35	-8.79	51.56	68.2	-16.64	PK
Vertical	11490.193	49.58	-8.79	40.79	54	-13.21	AV
Vertical	17235.193	58.80	-3.18	55.62	68.2	-12.58	PK
Vertical	17235.193	44.34	-3.18	41.16	54	-12.84	AV
Horizontal	4679.005	73.54	-20.73	52.81	74	-21.19	PK
Horizontal	4679.005	59.80	-20.73	39.07	54	-14.93	AV
Horizontal	11490.178	61.96	-8.79	53.17	68.2	-15.03	PK
Horizontal	11490.178	49.45	-8.79	40.66	54	-13.34	AV
Horizontal	17235.104	55.98	-3.18	52.80	68.2	-15.40	PK
Horizontal	17235.104	44.04	-3.18	40.86	54	-13.14	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.158	70.90	-20.42	50.48	74	-23.52	PK
Vertical	4592.158	59.26	-20.42	38.84	54	-15.16	AV
Vertical	11570.049	63.43	-8.86	54.57	68.2	-13.63	PK
Vertical	11570.049	49.67	-8.86	40.81	54	-13.19	AV
Vertical	17355.017	58.39	-2.52	55.87	68.2	-12.33	PK
Vertical	17355.017	44.58	-2.52	42.06	54	-11.94	AV
Horizontal	4592.141	70.62	-20.42	50.20	74	-23.80	PK
Horizontal	4592.141	59.61	-20.42	39.20	54	-14.80	AV
Horizontal	11570.190	62.39	-8.86	53.53	68.2	-14.67	PK
Horizontal	11570.190	49.83	-8.86	40.97	54	-13.03	AV
Horizontal	17355.106	57.55	-2.52	55.03	68.2	-13.17	PK
Horizontal	17355.106	44.76	-2.52	42.24	54	-11.76	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.159	74.41	-18.93	55.48	68.2	-12.72	PK
Vertical	6039.159	59.71	-18.93	40.78	54	-13.22	AV
Vertical	11650.092	63.04	-8.92	54.12	74	-19.88	PK
Vertical	11650.092	49.80	-8.92	40.88	54	-13.12	AV
Vertical	17475.020	55.93	-1.86	54.07	68.2	-14.13	PK
Vertical	17475.020	44.15	-1.86	42.29	54	-11.71	AV
Horizontal	6039.181	73.39	-18.93	54.46	68.2	-13.74	PK
Horizontal	6039.181	59.03	-18.93	40.10	54	-13.90	AV
Horizontal	11650.177	62.74	-8.92	53.82	74	-20.18	PK
Horizontal	11650.177	49.13	-8.92	40.21	54	-13.79	AV
Horizontal	17475.200	59.92	-1.86	58.06	68.2	-10.14	PK
Horizontal	17475.200	44.34	-1.86	42.48	54	-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:	TX (5.8G) --802.11n-HT20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.163	70.08	-20.24	49.84	74	-24.16	PK
Vertical	4679.163	59.45	-20.24	39.21	54	-14.79	AV
Vertical	11490.032	60.18	-8.79	51.39	68.2	-16.81	PK
Vertical	11490.032	49.06	-8.79	40.27	54	-13.73	AV
Vertical	17235.128	57.93	-3.18	54.75	68.2	-13.45	PK
Vertical	17235.128	44.36	-3.18	41.18	54	-12.82	AV
Horizontal	4679.110	73.77	-20.24	53.53	74	-20.47	PK
Horizontal	4679.110	59.98	-20.24	39.73	54	-14.27	AV
Horizontal	11490.065	62.36	-8.79	53.57	68.2	-14.63	PK
Horizontal	11490.065	49.72	-8.79	40.93	54	-13.07	AV
Horizontal	17235.053	57.58	-3.18	54.40	68.2	-13.80	PK
Horizontal	17235.053	44.63	-3.18	41.45	54	-12.55	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.157	71.21	-20.42	50.79	74	-23.21	PK
Vertical	4592.157	59.33	-20.42	38.92	54	-15.08	AV
Vertical	11570.197	63.32	-8.86	54.46	68.2	-13.74	PK
Vertical	11570.197	49.72	-8.86	40.86	54	-13.14	AV
Vertical	17355.113	59.91	-2.52	57.39	68.2	-10.81	PK
Vertical	17355.113	44.00	-2.52	41.48	54	-12.52	AV
Horizontal	4592.156	72.23	-20.42	51.82	74	-22.18	PK
Horizontal	4592.156	59.20	-20.42	38.78	54	-15.22	AV
Horizontal	11570.188	63.99	-8.86	55.13	68.2	-13.07	PK
Horizontal	11570.188	49.69	-8.86	40.83	54	-13.17	AV
Horizontal	17355.186	59.45	-2.52	56.93	68.2	-11.27	PK
Horizontal	17355.186	44.87	-2.52	42.35	54	-11.65	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.054	73.11	-18.93	54.18	68.2	-14.02	PK
Vertical	6039.054	59.65	-18.93	40.72	54	-13.28	AV
Vertical	11650.006	61.39	-8.92	52.47	74	-21.53	PK
Vertical	11650.006	49.05	-8.92	40.13	54	-13.87	AV
Vertical	17475.008	57.26	-1.86	55.40	68.2	-12.80	PK
Vertical	17475.008	44.03	-1.86	42.17	54	-11.83	AV
Horizontal	6039.168	70.81	-18.93	51.88	68.2	-16.32	PK
Horizontal	6039.168	59.12	-18.93	40.19	54	-13.81	AV
Horizontal	11650.116	60.44	-8.92	51.52	74	-22.48	PK
Horizontal	11650.116	49.77	-8.92	40.85	54	-13.15	AV
Horizontal	17475.185	55.34	-1.86	53.48	68.2	-14.72	PK
Horizontal	17475.185	44.36	-1.86	42.50	54	-11.50	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.087	70.52	-20.24	50.28	74	-23.72	PK
Vertical	4679.087	59.27	-20.24	39.03	54	-14.97	AV
Vertical	11510.146	61.72	-8.81	52.91	74	-21.09	PK
Vertical	11510.146	49.76	-8.81	40.95	54	-13.05	AV
Vertical	17265.071	57.29	-3.01	54.28	68.2	-13.92	PK
Vertical	17265.071	44.42	-3.01	41.41	54	-12.59	AV
Horizontal	4679.082	74.57	-20.24	54.33	74	-19.67	PK
Horizontal	4679.082	59.14	-20.24	38.90	54	-15.10	AV
Horizontal	11510.151	60.85	-8.81	52.04	74	-21.96	PK
Horizontal	11510.151	49.37	-8.81	40.56	54	-13.44	AV
Horizontal	17265.131	59.47	-3.01	56.46	68.2	-11.74	PK
Horizontal	17265.131	44.07	-3.01	41.06	54	-12.94	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.060	71.99	-18.93	53.06	68.2	-15.14	PK
Vertical	6039.060	59.83	-18.93	40.90	54	-13.10	AV
Vertical	11590.162	64.89	-8.87	56.02	74	-17.98	PK
Vertical	11590.162	49.21	-8.87	40.34	54	-13.66	AV
Vertical	17385.012	55.19	-2.35	52.84	68.2	-15.36	PK
Vertical	17385.012	44.55	-2.35	42.20	54	-11.80	AV
Horizontal	6039.144	74.91	-18.93	55.98	68.2	-12.22	PK
Horizontal	6039.144	59.42	-18.93	40.49	54	-13.51	AV
Horizontal	11590.103	61.01	-8.87	52.14	74	-21.86	PK
Horizontal	11590.103	49.59	-8.87	40.72	54	-13.28	AV
Horizontal	17385.093	57.67	-2.35	55.32	68.2	-12.88	PK
Horizontal	17385.093	44.33	-2.35	41.98	54	-12.02	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.083	72.65	-20.24	52.41	74	-21.59	PK
Vertical	4679.083	59.12	-20.24	38.88	54	-15.12	AV
Vertical	11490.129	60.10	-8.79	51.31	68.2	-16.89	PK
Vertical	11490.129	49.90	-8.79	41.11	54	-12.89	AV
Vertical	17235.122	56.21	-3.18	53.03	68.2	-15.17	PK
Vertical	17235.122	44.22	-3.18	41.04	54	-12.96	AV
Horizontal	4679.078	73.96	-20.24	53.72	74	-20.28	PK
Horizontal	4679.078	59.56	-20.24	39.32	54	-14.68	AV
Horizontal	11490.149	63.08	-8.79	54.29	68.2	-13.91	PK
Horizontal	11490.149	49.99	-8.79	41.20	54	-12.80	AV
Horizontal	17235.145	56.30	-3.18	53.12	68.2	-15.08	PK
Horizontal	17235.145	44.69	-3.18	41.51	54	-12.49	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.065	70.13	-20.42	49.71	74	-24.29	PK
Vertical	4592.065	59.43	-20.42	39.01	54	-14.99	AV
Vertical	11570.174	62.21	-8.86	53.35	68.2	-14.85	PK
Vertical	11570.174	49.27	-8.86	40.41	54	-13.59	AV
Vertical	17355.133	59.81	-2.52	57.29	68.2	-10.91	PK
Vertical	17355.133	44.61	-2.52	42.09	54	-11.91	AV
Horizontal	4592.185	74.90	-20.42	54.48	74	-19.52	PK
Horizontal	4592.185	59.19	-20.42	38.77	54	-15.23	AV
Horizontal	11570.183	62.16	-8.86	53.30	68.2	-14.90	PK
Horizontal	11570.183	49.93	-8.86	41.07	54	-12.93	AV
Horizontal	17355.120	57.49	-2.52	54.97	68.2	-13.23	PK
Horizontal	17355.120	44.76	-2.52	42.24	54	-11.76	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.170	72.97	-18.93	54.04	68.2	-14.16	PK
Vertical	6039.170	59.25	-18.93	40.32	54	-13.68	AV
Vertical	11650.019	62.09	-8.92	53.17	74	-20.83	PK
Vertical	11650.019	49.63	-8.92	40.71	54	-13.29	AV
Vertical	17475.188	55.98	-1.86	54.12	68.2	-14.08	PK
Vertical	17475.188	44.22	-1.86	42.36	54	-11.64	AV
Horizontal	6039.193	73.85	-18.93	54.92	68.2	-13.28	PK
Horizontal	6039.193	59.79	-18.93	40.86	54	-13.14	AV
Horizontal	11650.060	60.57	-8.92	51.65	74	-22.35	PK
Horizontal	11650.060	49.66	-8.92	40.74	54	-13.26	AV
Horizontal	17475.140	59.99	-1.86	58.13	68.2	-10.07	PK
Horizontal	17475.140	44.79	-1.86	42.93	54	-11.07	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.138	74.95	-20.24	54.71	74	-19.29	PK
Vertical	4679.138	59.83	-20.24	39.59	54	-14.41	AV
Vertical	11510.193	64.89	-8.81	56.08	74	-17.92	PK
Vertical	11510.193	49.06	-8.81	40.25	54	-13.75	AV
Vertical	17265.020	56.43	-3.01	53.42	68.2	-14.78	PK
Vertical	17265.020	44.21	-3.01	41.20	54	-12.80	AV
Horizontal	4679.154	71.86	-20.24	51.62	74	-22.38	PK
Horizontal	4679.154	59.25	-20.24	39.01	54	-14.99	AV
Horizontal	11510.006	62.66	-8.81	53.85	74	-20.15	PK
Horizontal	11510.006	49.69	-8.81	40.88	54	-13.12	AV
Horizontal	17265.006	58.33	-3.01	55.32	68.2	-12.88	PK
Horizontal	17265.006	44.79	-3.01	41.78	54	-12.22	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.154	70.99	-18.93	52.06	68.2	-16.14	PK
Vertical	6039.154	59.83	-18.93	40.90	54	-13.10	AV
Vertical	11590.106	61.65	-8.87	52.78	74	-21.22	PK
Vertical	11590.106	49.39	-8.87	40.52	54	-13.48	AV
Vertical	17385.059	57.97	-2.35	55.62	68.2	-12.58	PK
Vertical	17385.059	44.74	-2.35	42.39	54	-11.61	AV
Horizontal	6039.107	72.43	-18.93	53.50	68.2	-14.70	PK
Horizontal	6039.107	59.11	-18.93	40.18	54	-13.82	AV
Horizontal	11590.045	60.61	-8.87	51.74	74	-22.26	PK
Horizontal	11590.045	49.58	-8.87	40.71	54	-13.29	AV
Horizontal	17385.018	57.48	-2.35	55.13	68.2	-13.07	PK
Horizontal	17385.018	44.11	-2.35	41.76	54	-12.24	AV

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

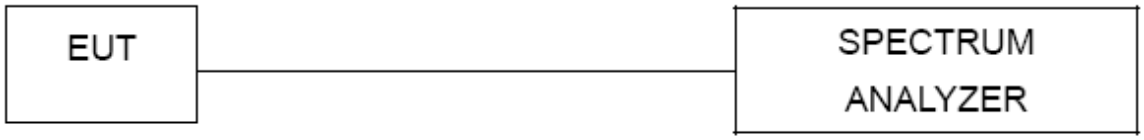
Test Mode :	TX (5.8G) -- 802.11ac 80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.003	73.83	-20.24	53.59	74	-20.41	PK
Vertical	4679.003	59.23	-20.24	38.99	54	-15.01	AV
Vertical	11550.047	63.61	-8.84	54.77	74	-19.23	PK
Vertical	11550.047	49.94	-8.84	41.10	54	-12.90	AV
Vertical	17325.102	58.40	-2.68	55.72	68.2	-12.48	PK
Vertical	17325.102	44.98	-2.68	42.30	54	-11.70	AV
Horizontal	4679.185	72.16	-20.24	51.92	74	-22.08	PK
Horizontal	4679.185	59.02	-20.24	38.77	54	-15.23	AV
Horizontal	11550.063	60.83	-8.84	51.99	74	-22.01	PK
Horizontal	11550.063	49.06	-8.84	40.22	54	-13.78	AV
Horizontal	17325.122	56.61	-2.68	53.93	68.2	-14.27	PK
Horizontal	17325.122	44.15	-2.68	41.47	54	-12.53	AV

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

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

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

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

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

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

For the band 5.725-5.85 GHz

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

8.3 Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).
b) Set VBW ≥ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

8.4 EUT Operating Conditions

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

8.5 Test Result

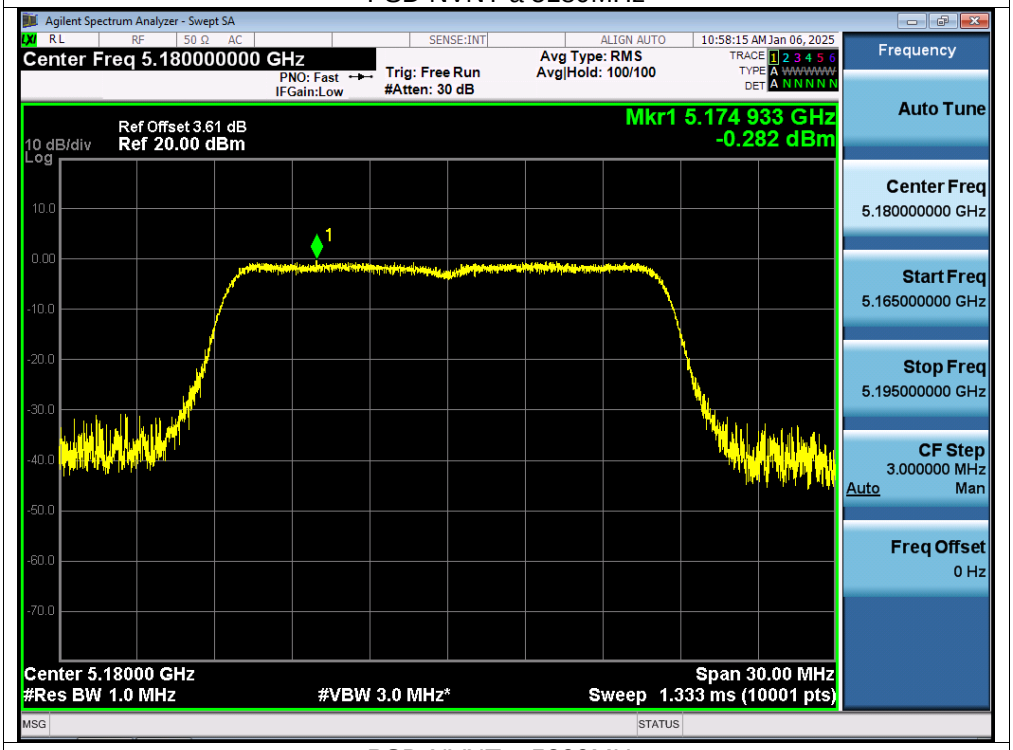
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.87V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-0.28	11	Pass
NVNT	a	5200	0.89	11	Pass
NVNT	a	5240	-0.05	11	Pass
NVNT	n20	5180	-0.77	11	Pass
NVNT	n20	5200	-1.25	11	Pass
NVNT	n20	5240	-1.63	11	Pass
NVNT	n40	5190	-4.31	11	Pass
NVNT	n40	5230	-4.97	11	Pass
NVNT	ac20	5180	-0.78	11	Pass
NVNT	ac20	5200	-0.93	11	Pass
NVNT	ac20	5240	-1.43	11	Pass
NVNT	ac40	5190	-4.42	11	Pass
NVNT	ac40	5230	-4.44	11	Pass
NVNT	ac80	5210	-10.08	11	Pass

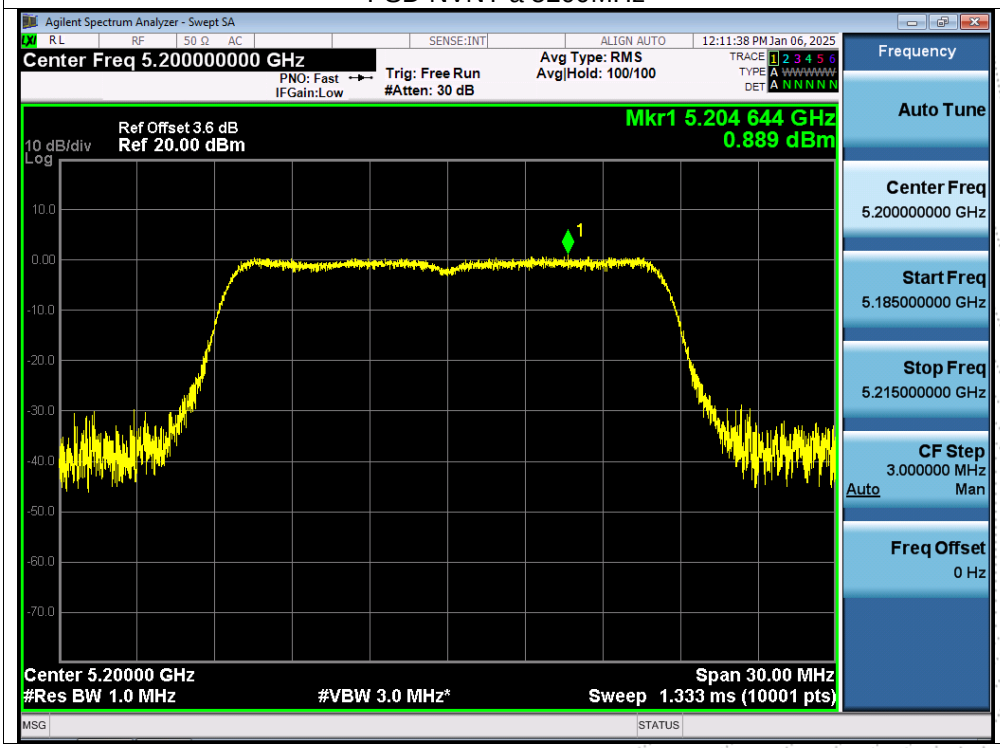
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-3.93	-4.016	30	Pass
NVNT	a	5785	-4.36	-4.446	30	Pass
NVNT	a	5825	-4.42	-4.506	30	Pass
NVNT	n20	5745	-5.38	-5.466	30	Pass
NVNT	n20	5785	-5.8	-5.886	30	Pass
NVNT	n20	5825	-5.7	-5.786	30	Pass
NVNT	n40	5755	-9.28	-9.366	30	Pass
NVNT	n40	5795	-9.5	-9.586	30	Pass
NVNT	ac20	5745	-5.5	-5.586	30	Pass
NVNT	ac20	5785	-5.45	-5.536	30	Pass
NVNT	ac20	5825	-5.78	-5.866	30	Pass
NVNT	ac40	5755	-9.15	-9.236	30	Pass
NVNT	ac40	5795	-9.66	-9.746	30	Pass
NVNT	ac80	5775	-13.95	-14.036	30	Pass
Note: Correction Factor = 10log(500KHz/RBW in measurement) =-0.086						

Test Graphs

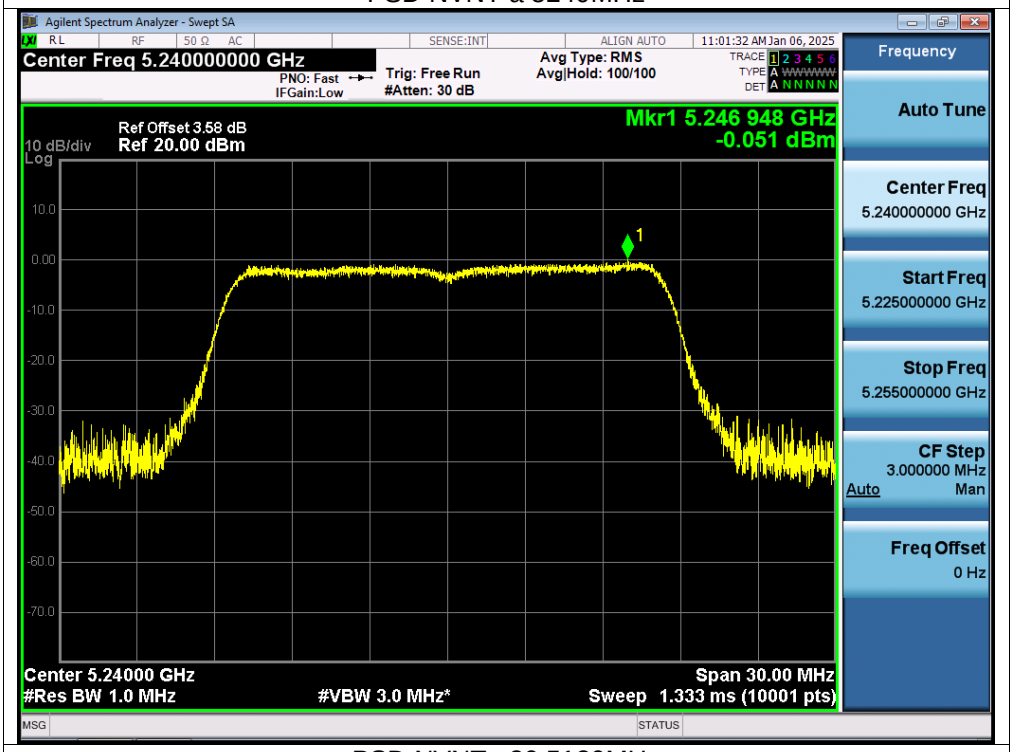
PSD NVNT a 5180MHz



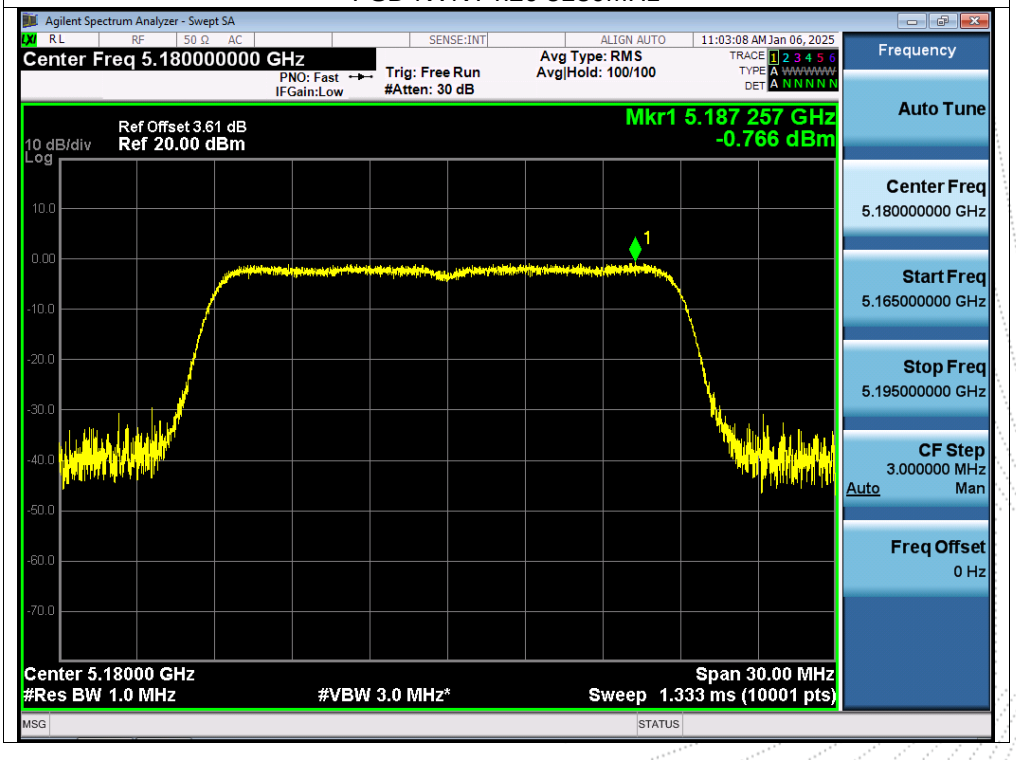
PSD NVNT a 5200MHz



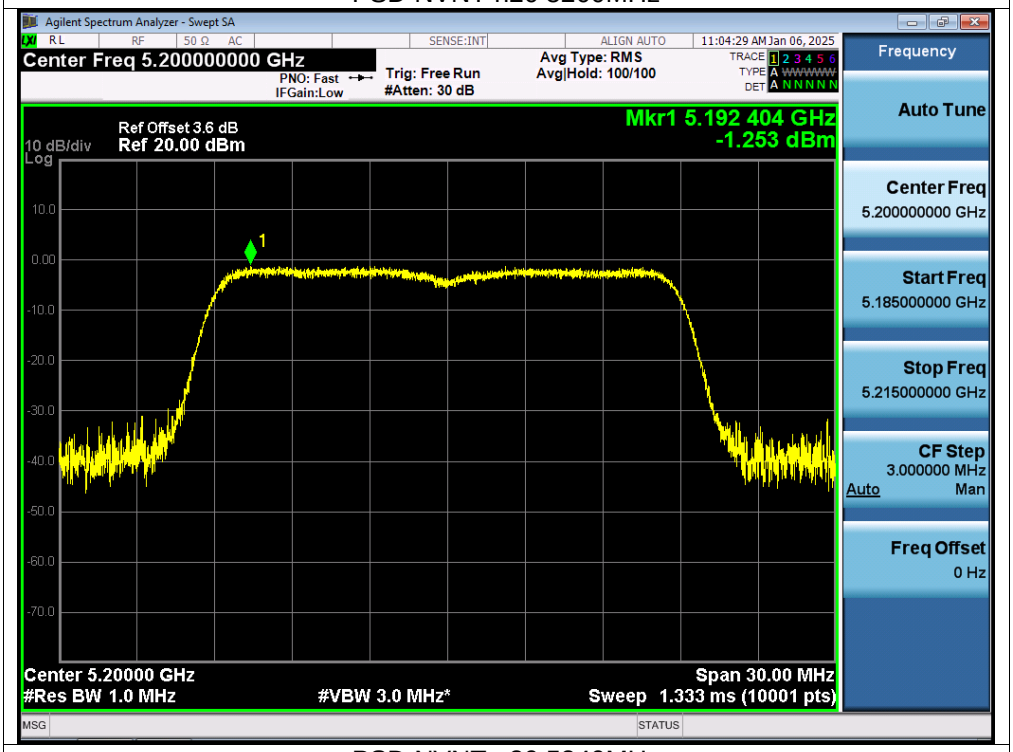
PSD NVNT a 5240MHz



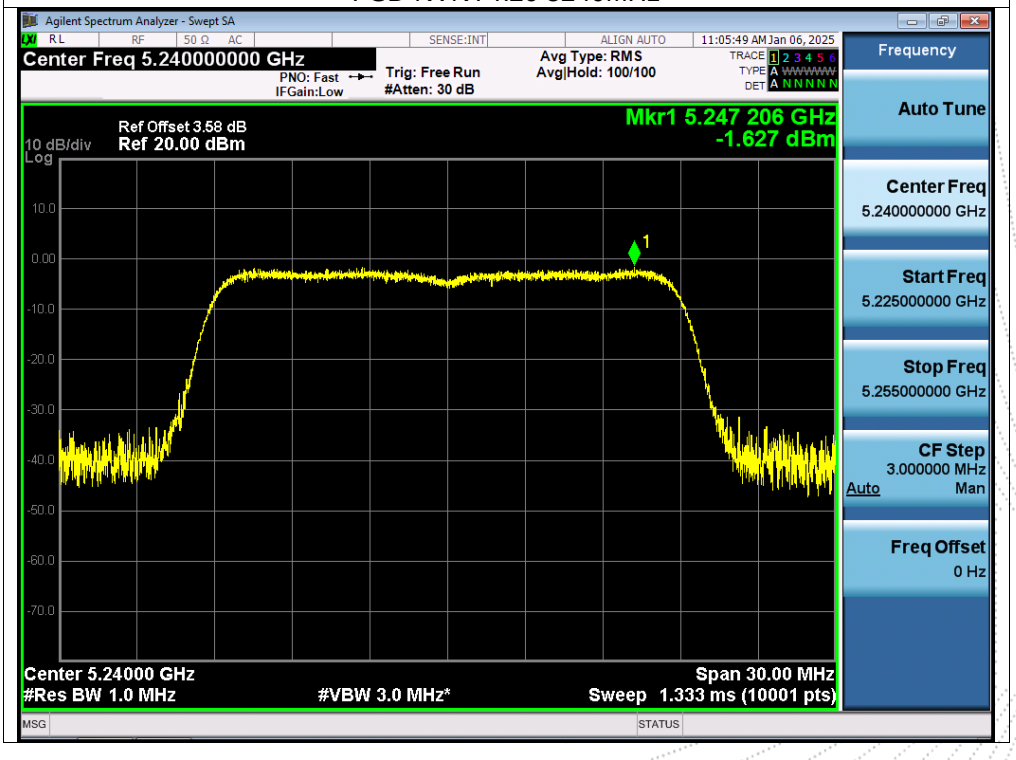
PSD NVNT n20 5180MHz



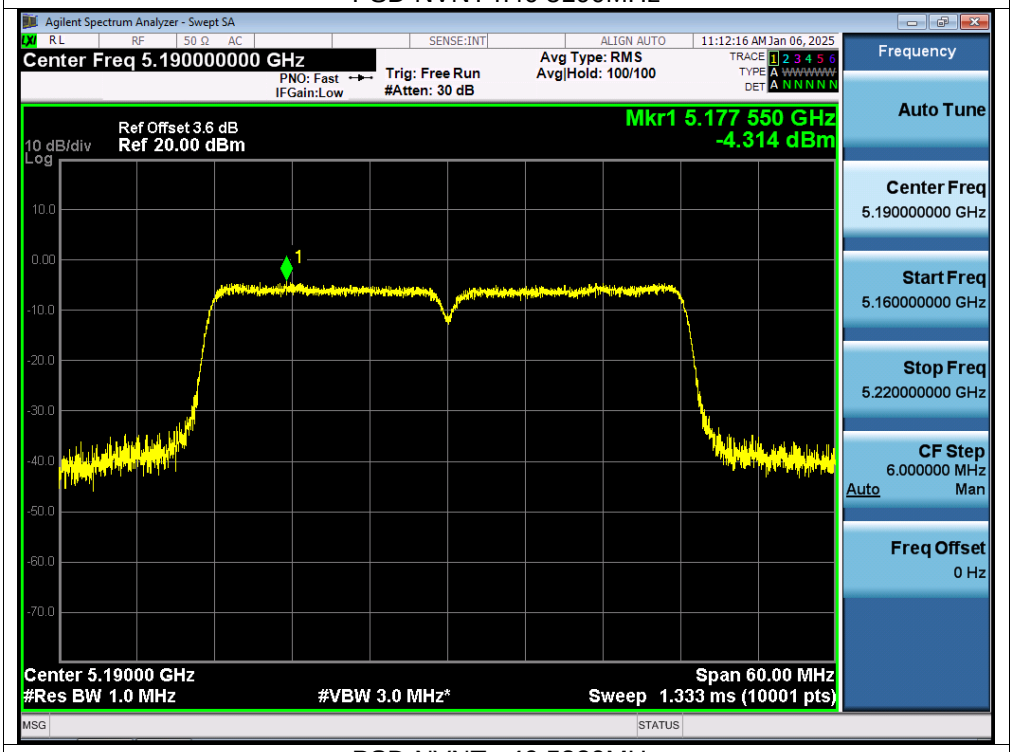
PSD NVNT n20 5200MHz



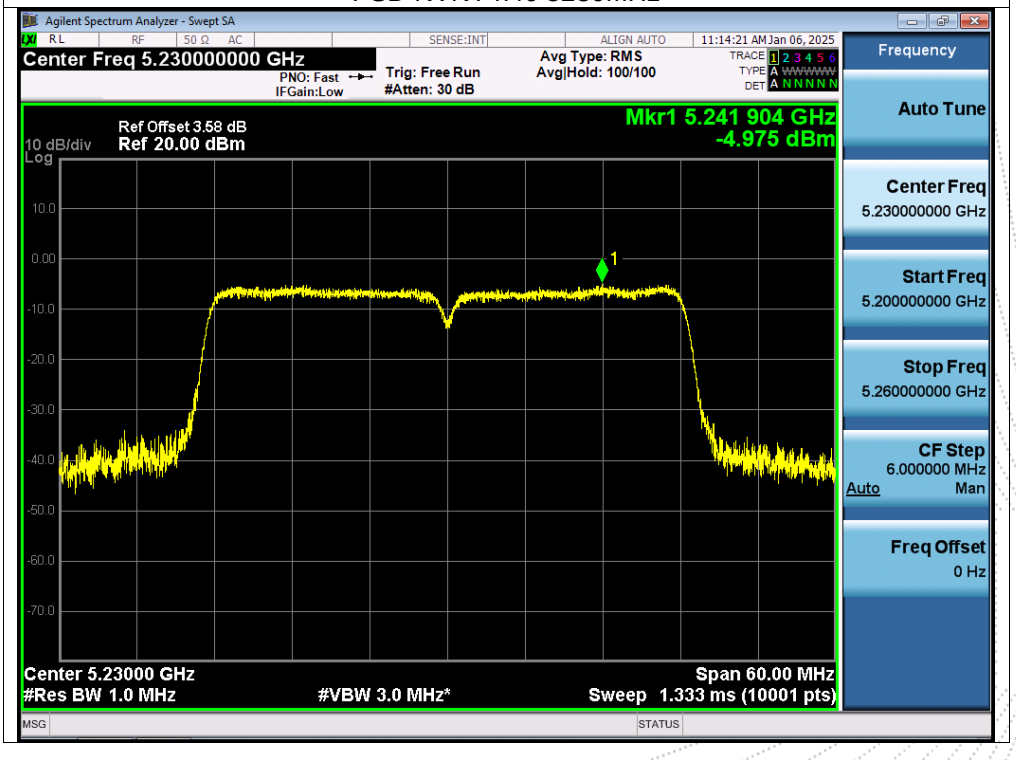
PSD NVNT n20 5240MHz



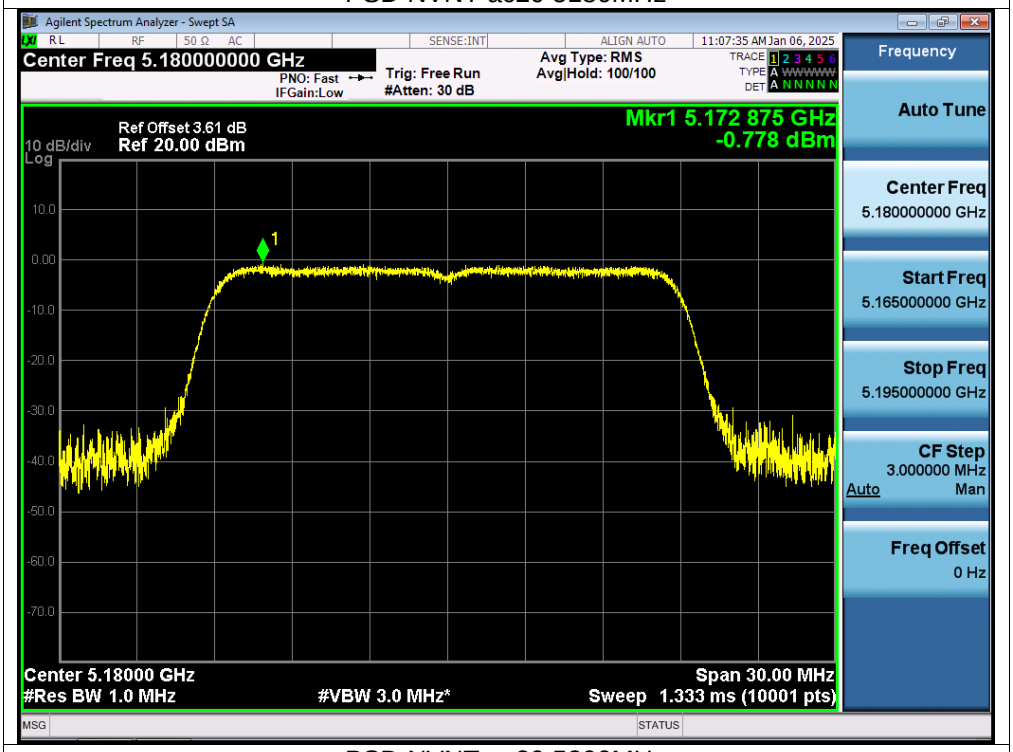
PSD NVNT n40 5190MHz



PSD NVNT n40 5230MHz



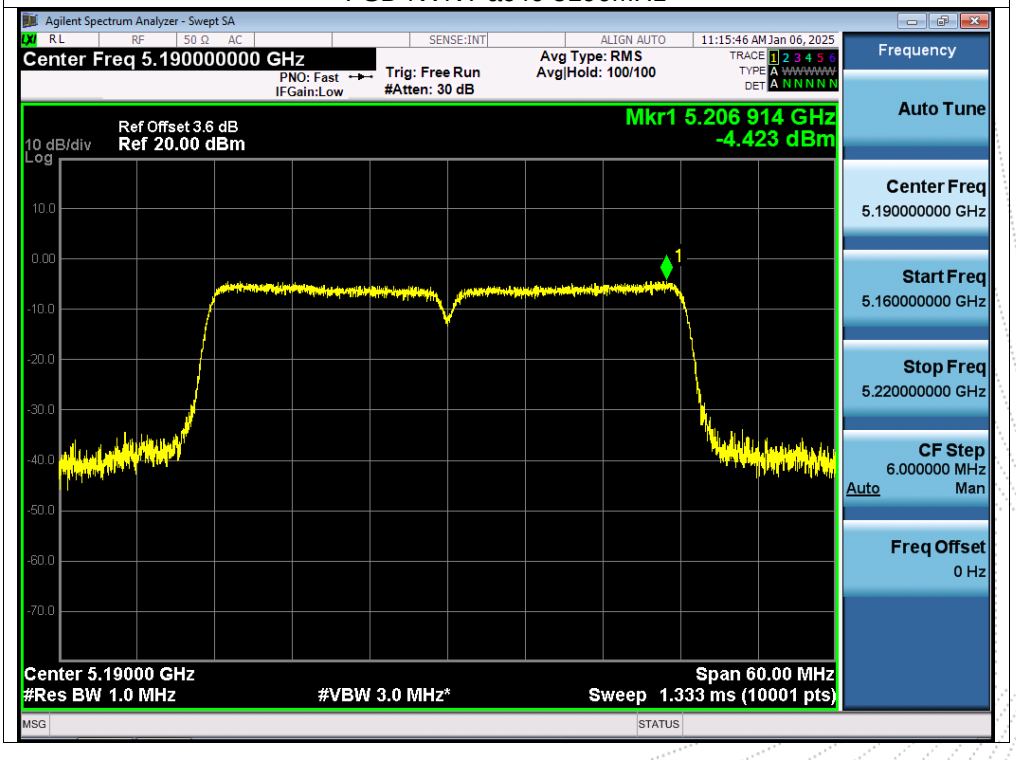
PSD NVNT ac20 5180MHz



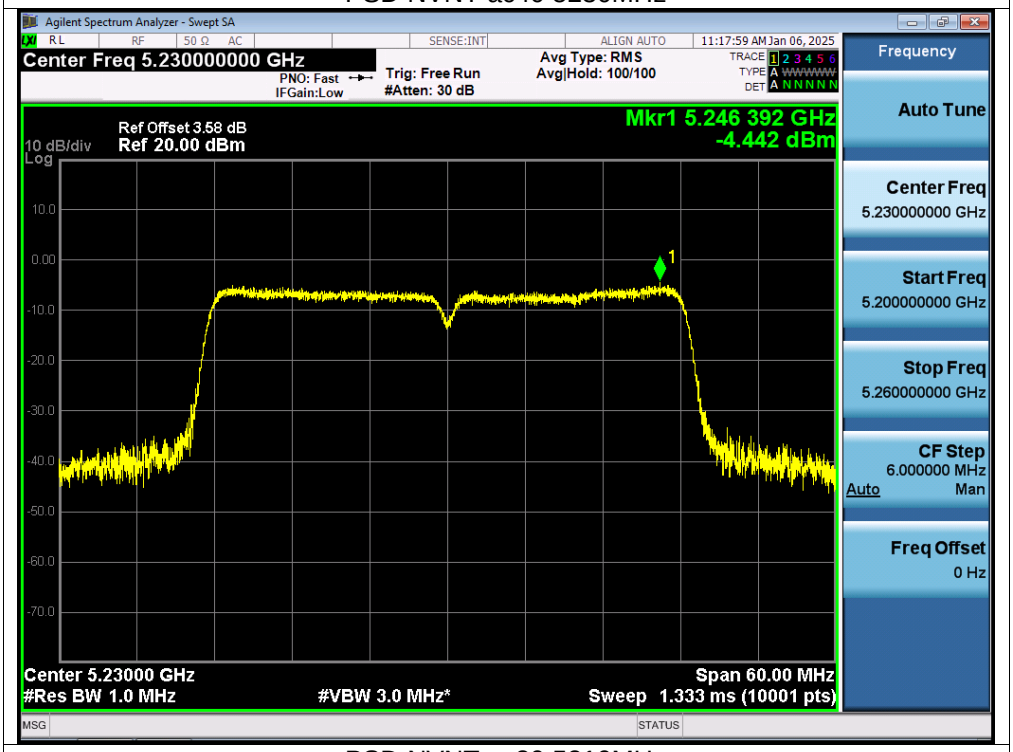
PSD NVNT ac20 5200MHz

PSD NVNT ac20 5240MHz

PSD NVNT ac40 5190MHz



PSD NVNT ac40 5230MHz

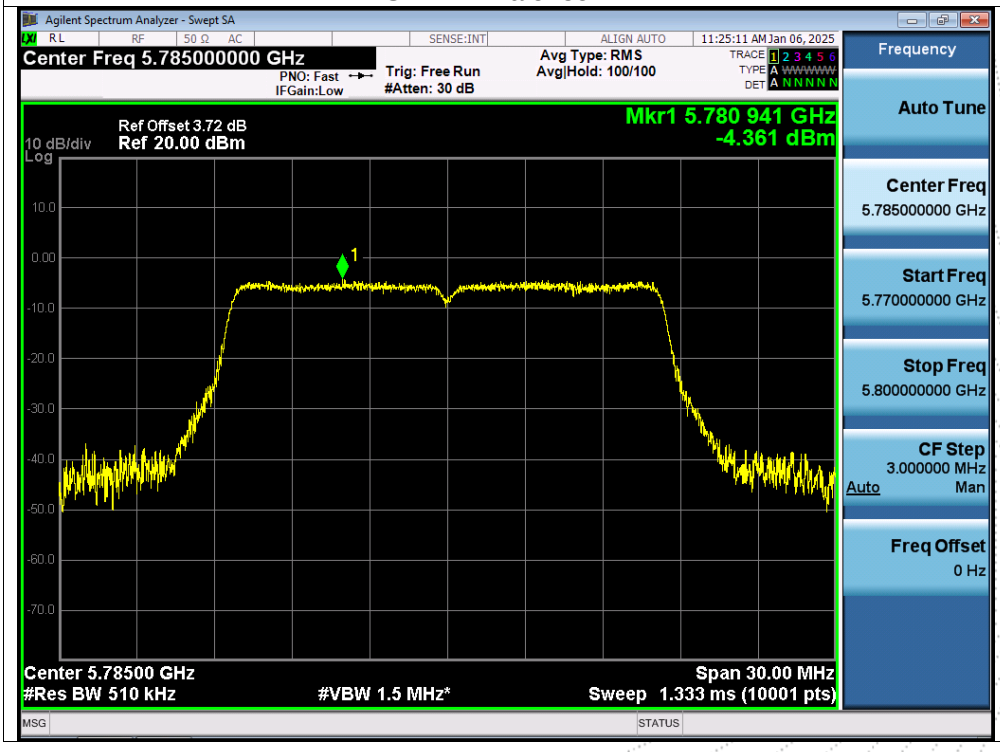


PSD NVNT ac80 5210MHz

Test Graphs

PSD NVNT a 5745MHz

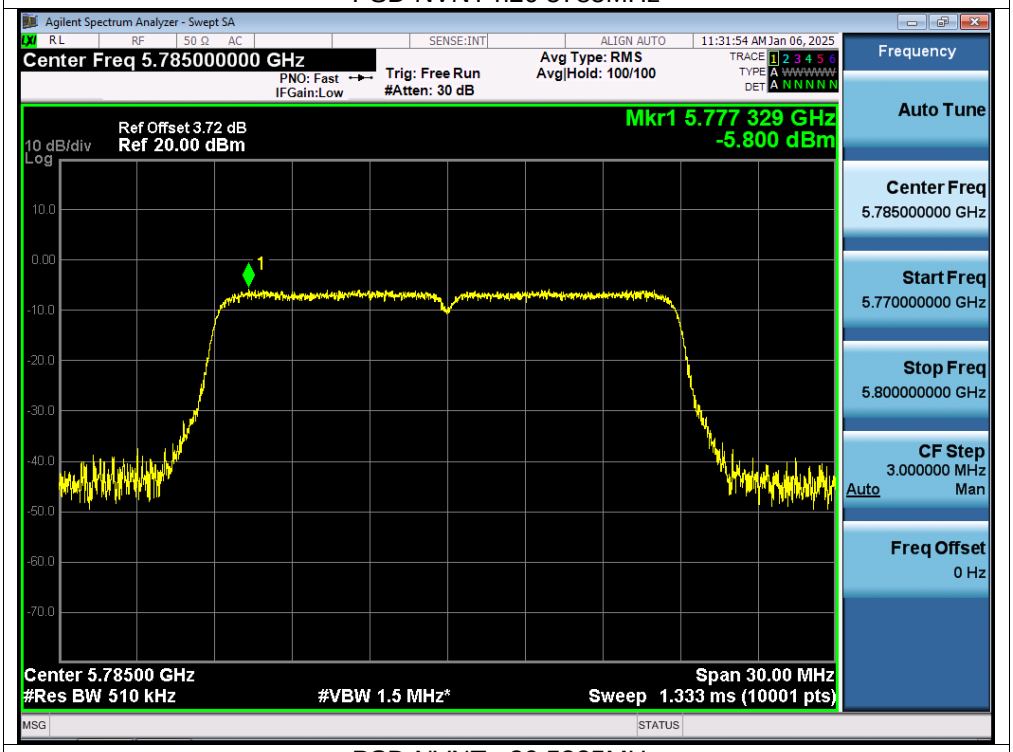
PSD NVNT a 5785MHz



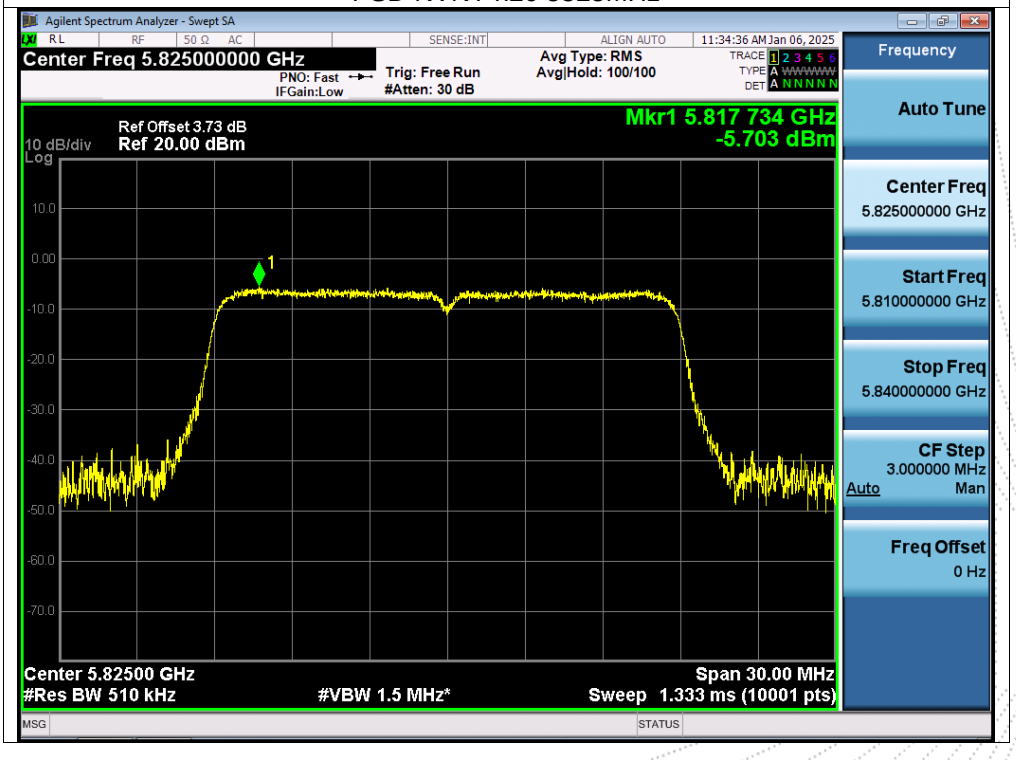
PSD NVNT a 5825MHz

PSD NVNT n20 5745MHz

PSD NVNT n20 5785MHz



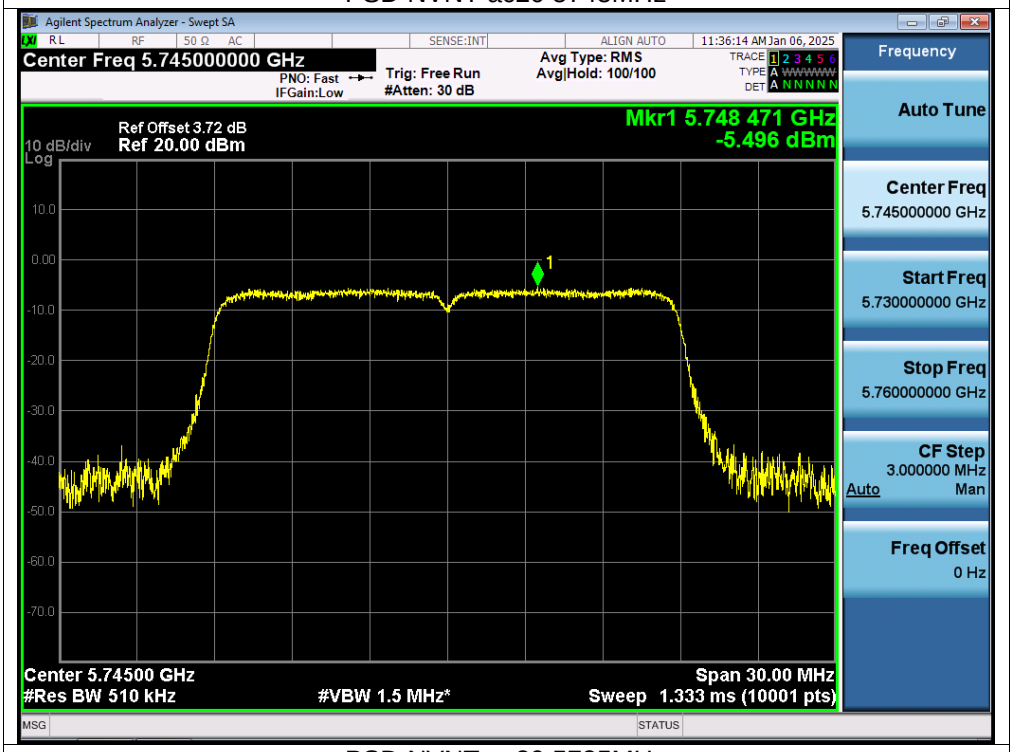
PSD NVNT n20 5825MHz



PSD NVNT n40 5755MHz

PSD NVNT n40 5795MHz

PSD NVNT ac20 5745MHz



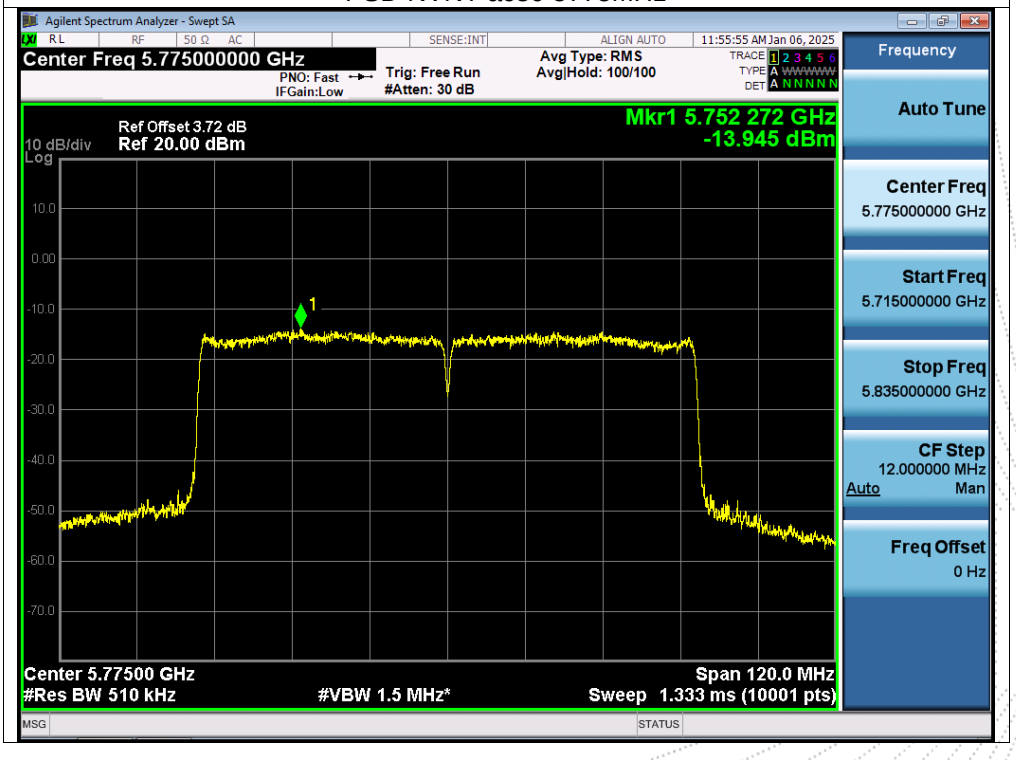
PSD NVNT ac20 5785MHz

PSD NVNT ac20 5825MHz

PSD NVNT ac40 5755MHz

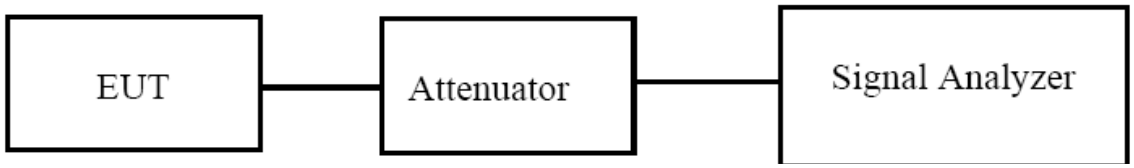
PSD NVNT ac40 5795MHz

PSD NVNT ac80 5775MHz



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

9.1 Block Diagram Of Test Setup



9.2 Limit

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

9.3 Test Procedure

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

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

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

6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

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

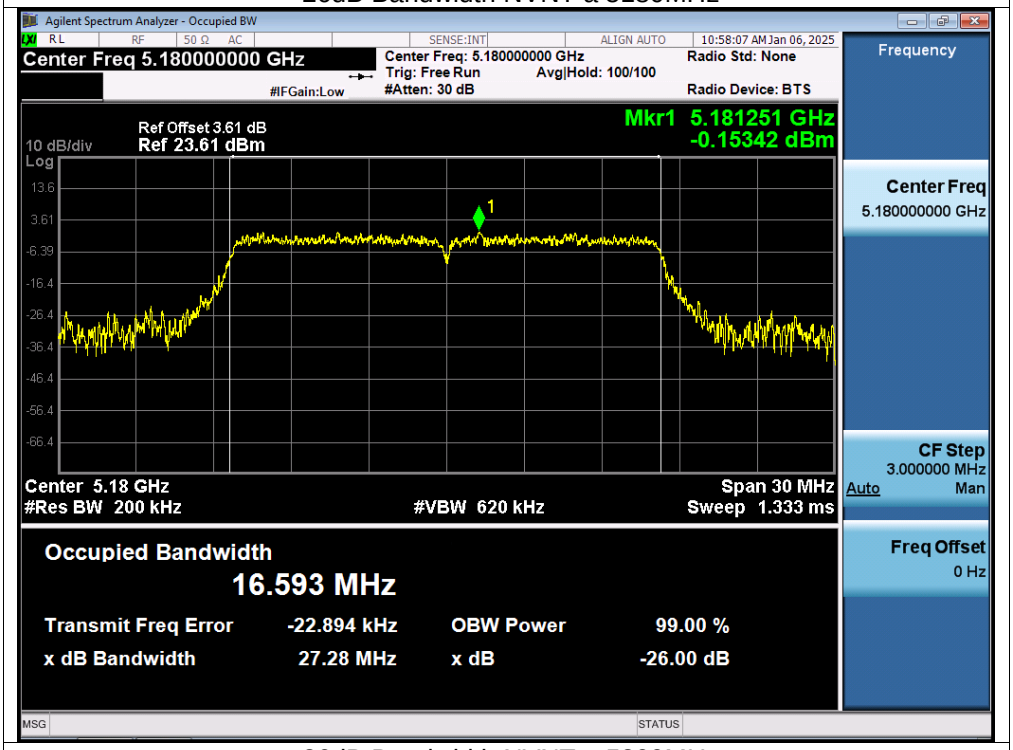
9.5 Test Result

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

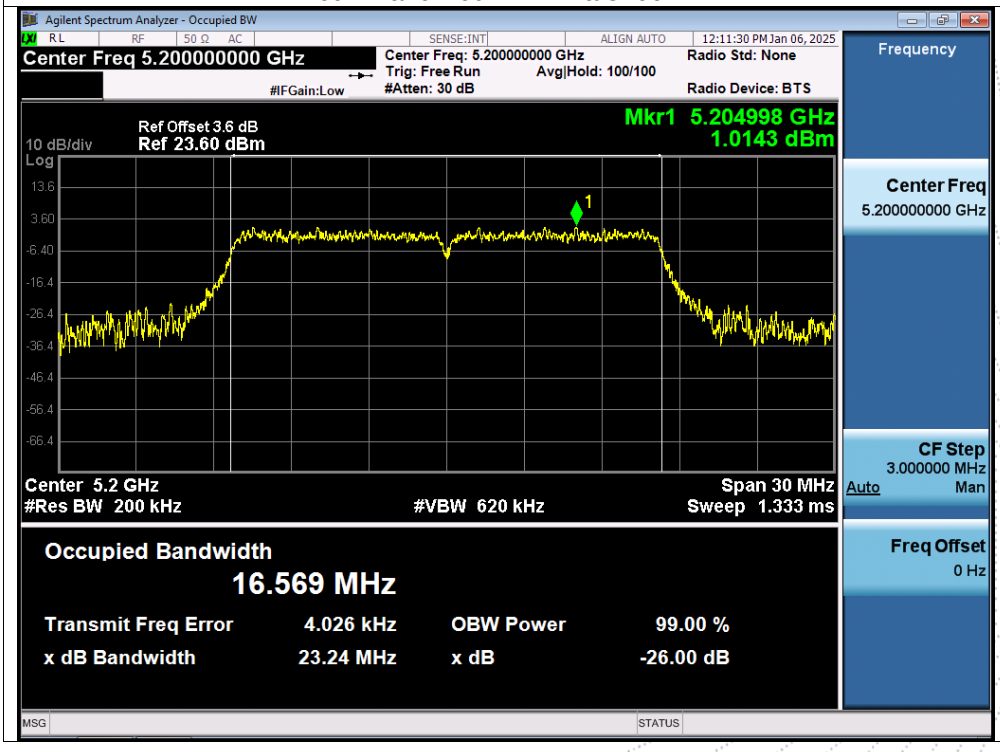
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.571	27.279	Pass
NVNT	a	5200	16.574	23.24	Pass
NVNT	a	5240	16.572	21.529	Pass
NVNT	n20	5180	17.599	23.324	Pass
NVNT	n20	5200	17.622	23.091	Pass
NVNT	n20	5240	17.631	25.587	Pass
NVNT	n40	5190	36.313	45.973	Pass
NVNT	n40	5230	36.38	48.808	Pass
NVNT	ac20	5180	17.645	27.301	Pass
NVNT	ac20	5200	17.658	27.938	Pass
NVNT	ac20	5240	17.633	24.846	Pass
NVNT	ac40	5190	36.34	53.145	Pass
NVNT	ac40	5230	36.354	47.675	Pass
NVNT	ac80	5210	75.707	83.257	Pass

Test Graphs

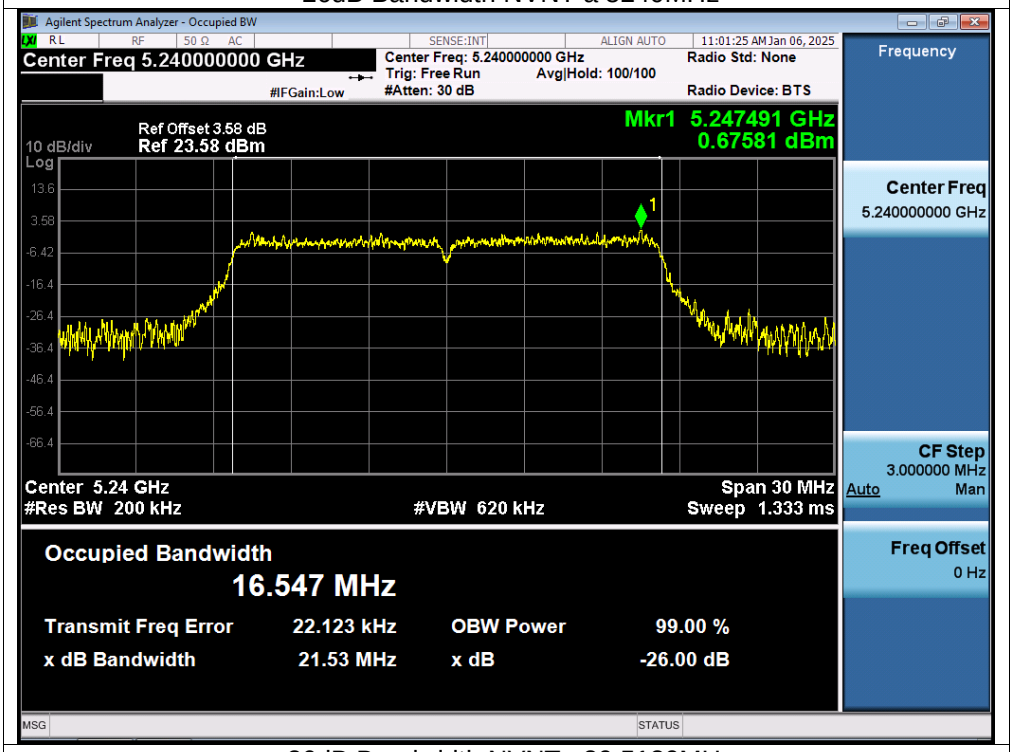
-26dB Bandwidth NVNT a 5180MHz



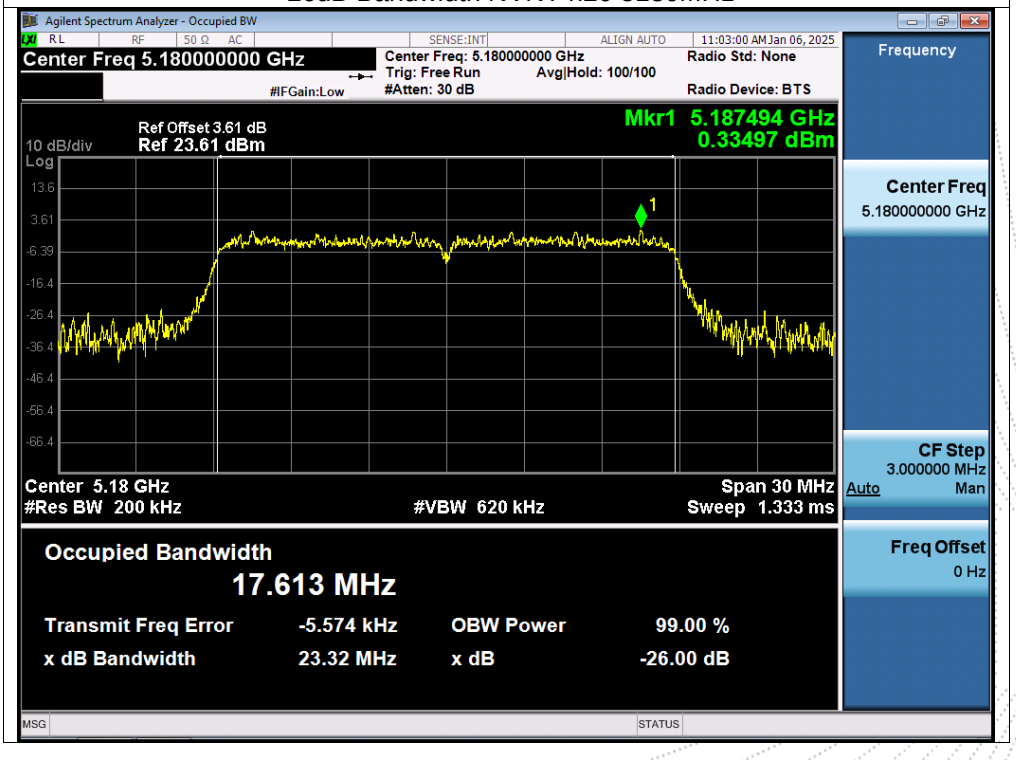
-26dB Bandwidth NVNT a 5200MHz



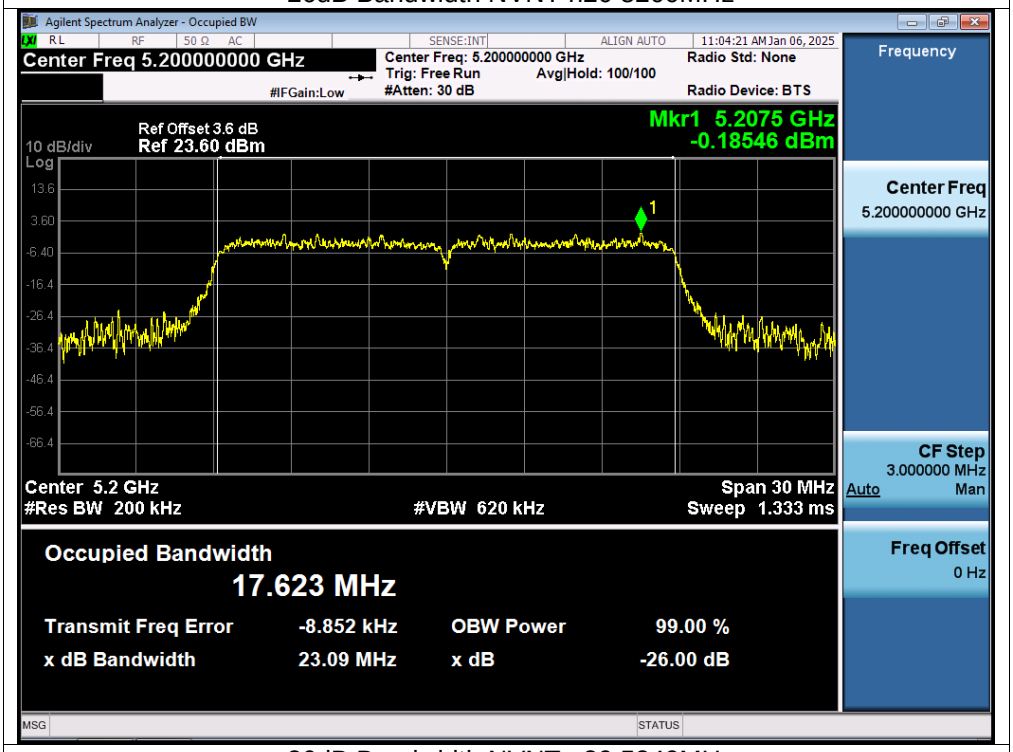
-26dB Bandwidth NVNT a 5240MHz



-26dB Bandwidth NVNT n20 5180MHz



-26dB Bandwidth NVNT n20 5200MHz



-26dB Bandwidth NVNT n20 5240MHz