

TEST REPORT

Report No.: BCTC2301721503-4E

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY
CO.,LTD

Product Name: Smart Phone

Model/Type
reference: WP22

Tested Date: 2023-01-11 to 2023-02-07

Issued Date: 2023-02-07

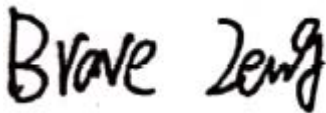
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2ANMU-WP22SPU

Product Name: Smart Phone
Trademark: OUKITEL
Model/Type reference: WP22
WP22 S, WP22 Pro, WP22 Ultra
Prepared For: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
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Manufacturer: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
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Sample Received Date: 2023-01-11
Sample tested Date: 2023-01-11 to 2023-02-07
Issue Date: 2023-02-07
Report No.: BCTC2301721503-4E
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

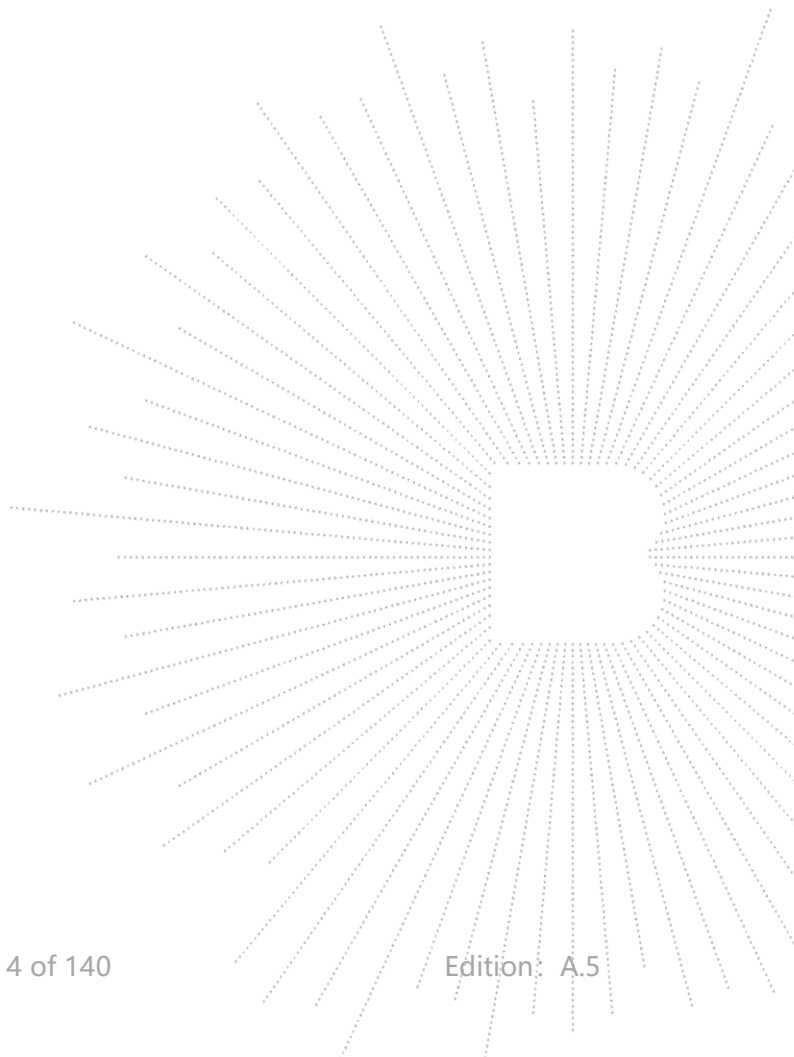
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2301721503-4E	2023-02-07	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°C

4. Product Information And Test Setup

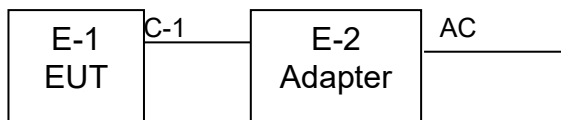
4.1 Product Information

Model/Type Ref.:	WP22 WP22 S, WP22 Pro, WP22 Ultra
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	HCT-S930MB-A2
Software Version:	OUKITEL_WP22_V04
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80;
Operation Frequency:	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:	-0.12 dBi
Ratings:	AC 120V/60Hz/DC 3.87V from battery Model: HJ-FC010K7-US Input: 100-240V~50/60Hz 0.6A
Adapter Information:	Output: DC 5V 2.0A DC 9V 2.0A DC 12V 1.5A
Remark:	The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.

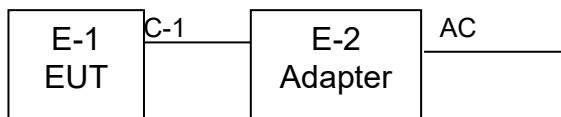
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	OUKITEL	WP22	N/A	EUT
E-2	Adapter	N/A	HJ-FC010K7-US	N/A	Auxiliary

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 Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155

Note:

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

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

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

5.2 Test Instrument Used

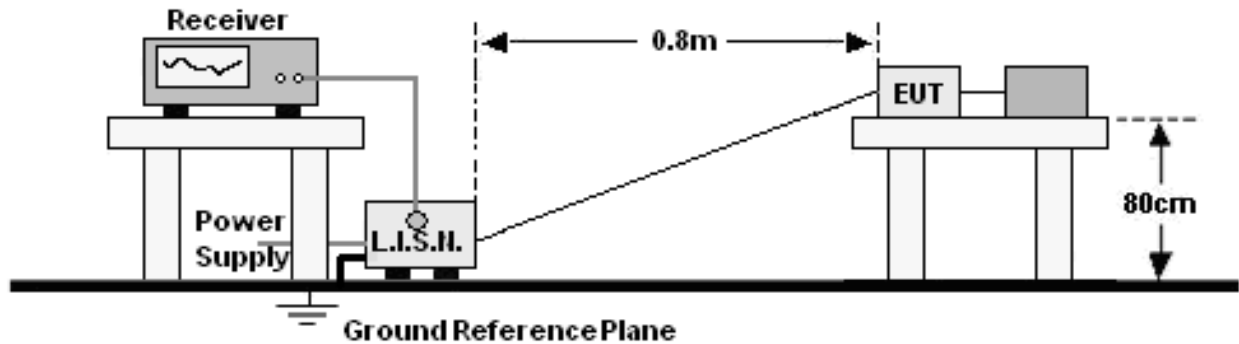
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Communication test set	R&S	CMW500	126173	Nov.8,2022	Nov.7,2023
Radio frequency control box	MAIWEI	MW200-RFC B	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Communication test set	R&S	CMW500	126173	Nov.8,2022	Nov.7,2023
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

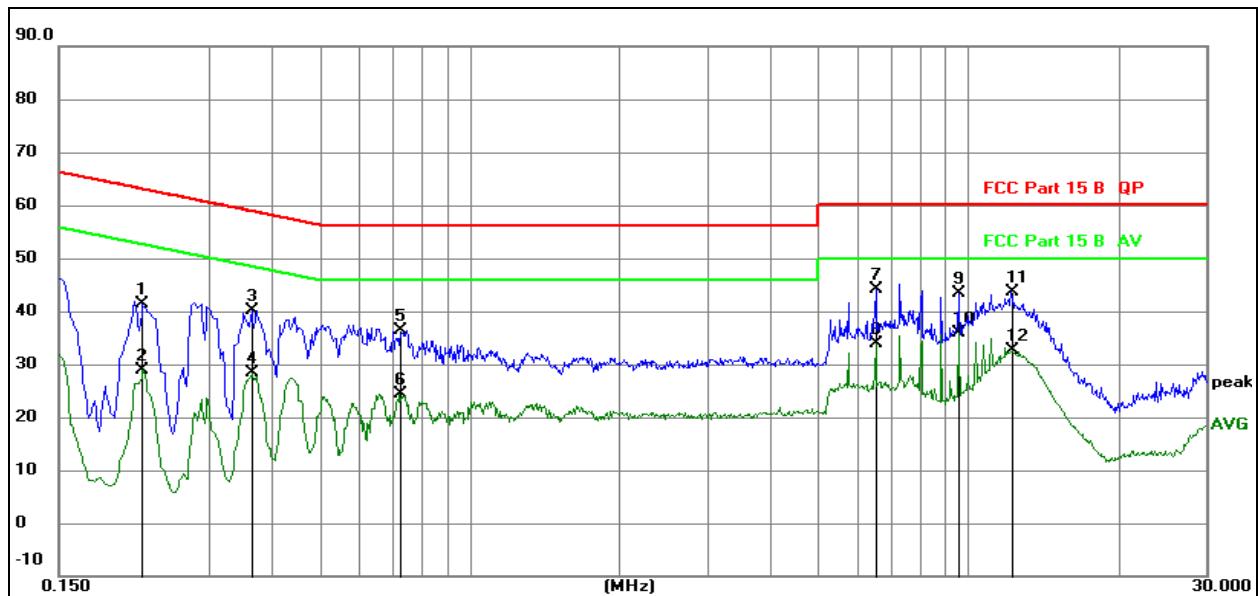
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 2	Test Voltage :	AC120V/60Hz

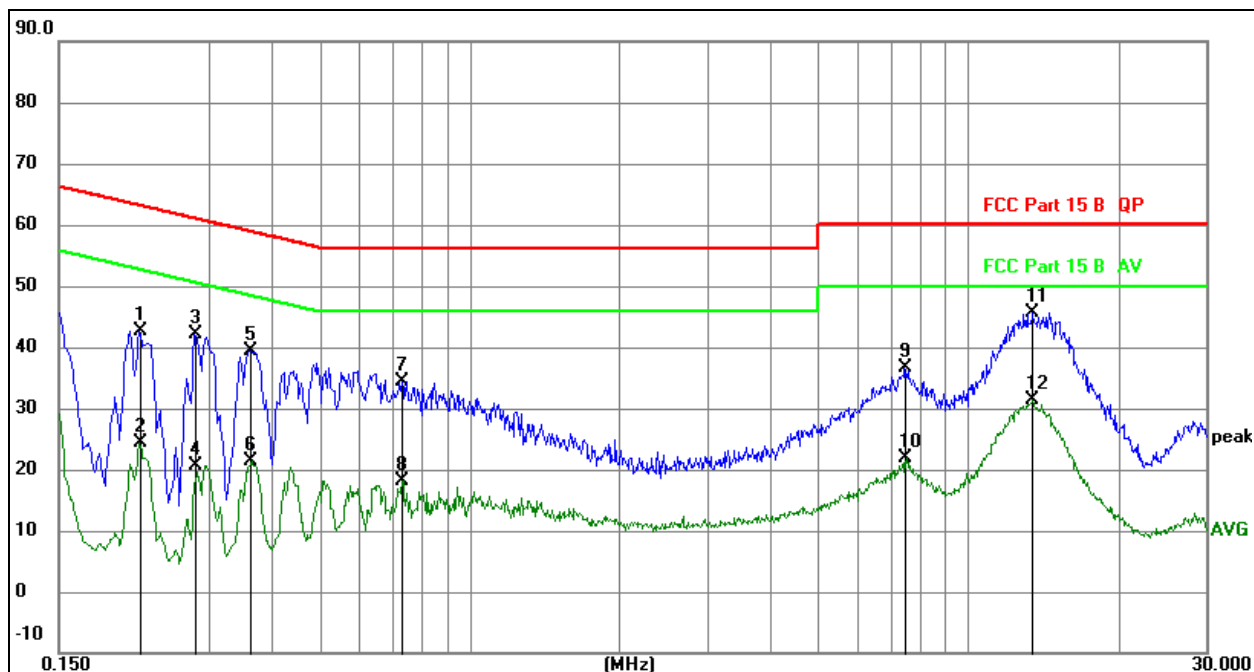


Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.2208	21.47	19.79	41.26	62.79	-21.53	QP
2	0.2208	9.21	19.79	29.00	52.79	-23.79	AVG
3	0.3653	20.46	19.76	40.22	58.61	-18.39	QP
4	0.3653	8.52	19.76	28.28	48.61	-20.33	AVG
5	0.7236	16.53	19.74	36.27	56.00	-19.73	QP
6	0.7236	4.53	19.74	24.27	46.00	-21.73	AVG
7	6.5227	23.84	20.17	44.01	60.00	-15.99	QP
8	6.5227	13.82	20.17	33.99	50.00	-16.01	AVG
9	9.5520	23.12	20.27	43.39	60.00	-16.61	QP
10 *	9.5520	15.56	20.27	35.83	50.00	-14.17	AVG
11	12.1884	23.23	20.28	43.51	60.00	-16.49	QP
12	12.1884	12.24	20.28	32.52	50.00	-17.48	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 2	Test Voltage :	AC120V/60Hz



Remark:

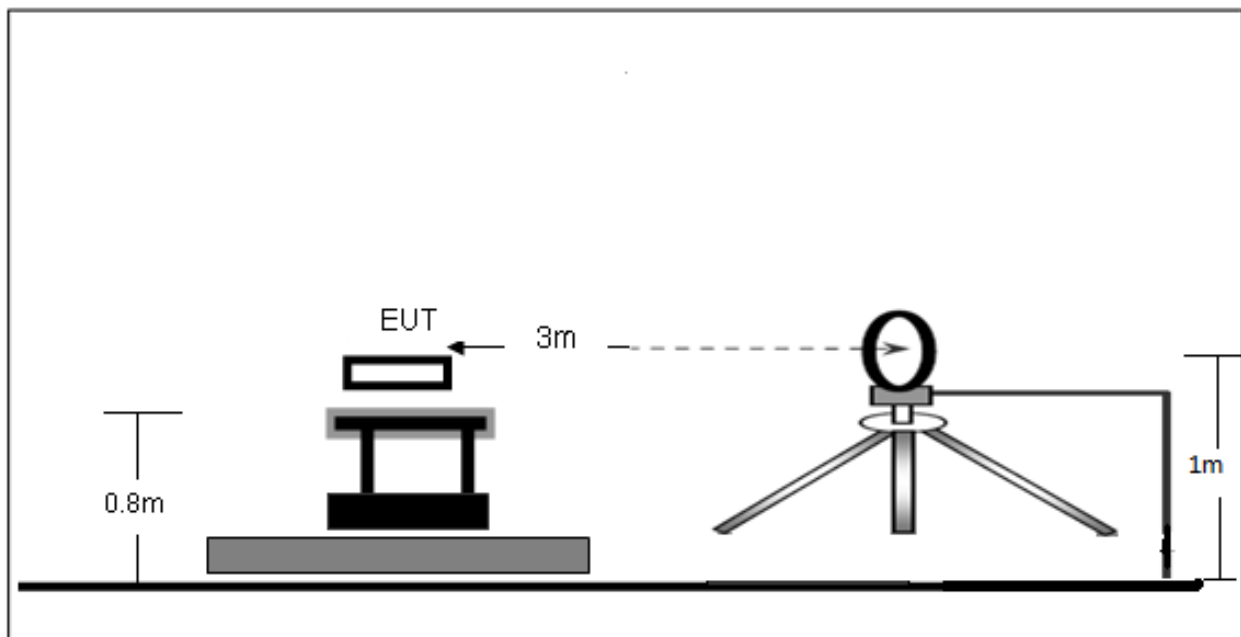
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2174	22.76	19.80	42.56	62.92	-20.36	QP
2		0.2174	4.63	19.80	24.43	52.92	-28.49	AVG
3		0.2803	22.26	19.78	42.04	60.81	-18.77	QP
4		0.2803	0.93	19.78	20.71	50.81	-30.10	AVG
5		0.3615	19.68	19.76	39.44	58.69	-19.25	QP
6		0.3615	1.61	19.76	21.37	48.69	-27.32	AVG
7		0.7313	14.74	19.74	34.48	56.00	-21.52	QP
8		0.7313	-1.55	19.74	18.19	46.00	-27.81	AVG
9		7.4465	16.40	20.19	36.59	60.00	-23.41	QP
10		7.4465	1.61	20.19	21.80	50.00	-28.20	AVG
11	*	13.4792	25.28	20.28	45.56	60.00	-14.44	QP
12		13.4792	11.00	20.28	31.28	50.00	-18.72	AVG

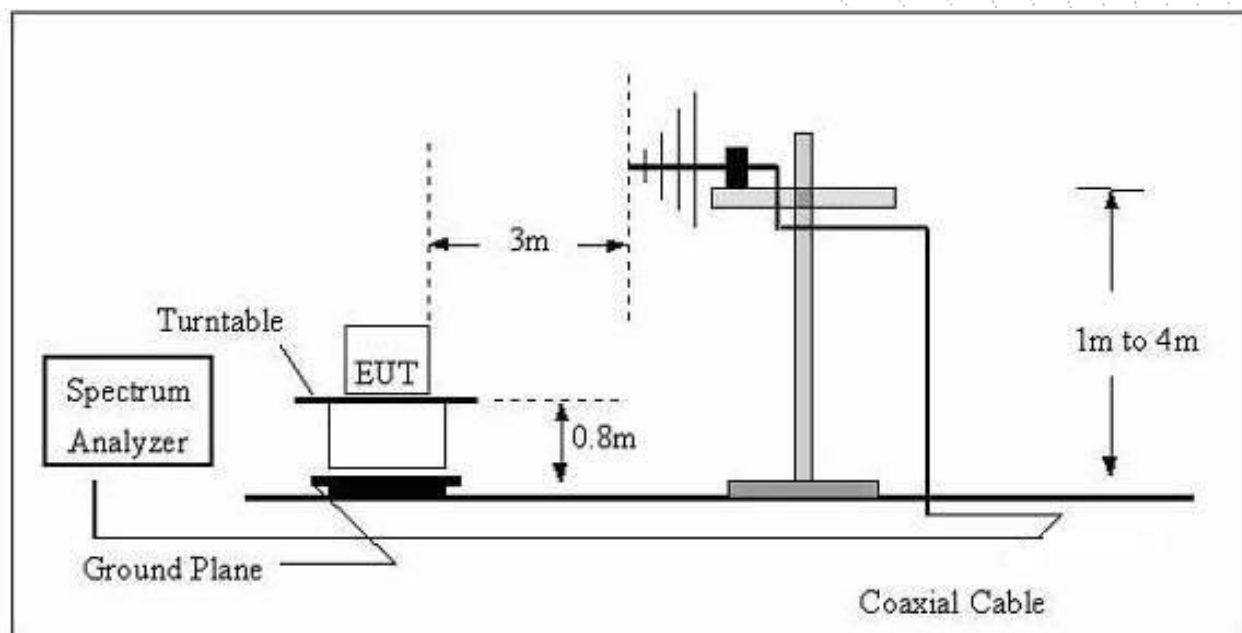
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

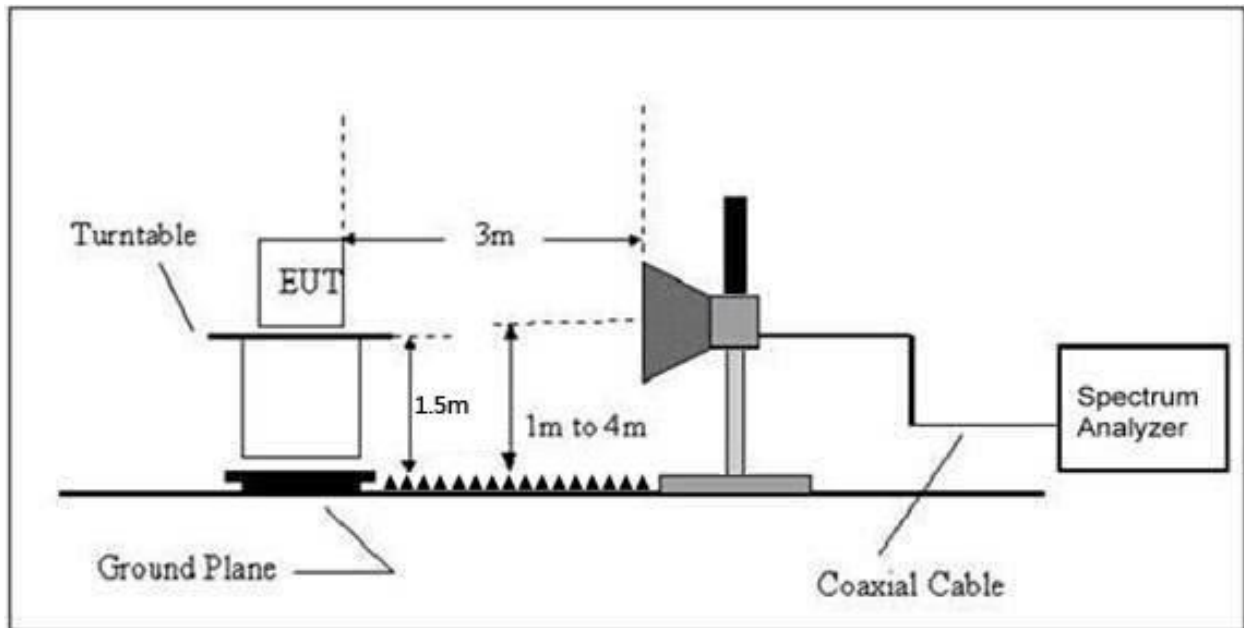
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
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 $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , 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%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 3	Polarization :	--

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

Note:

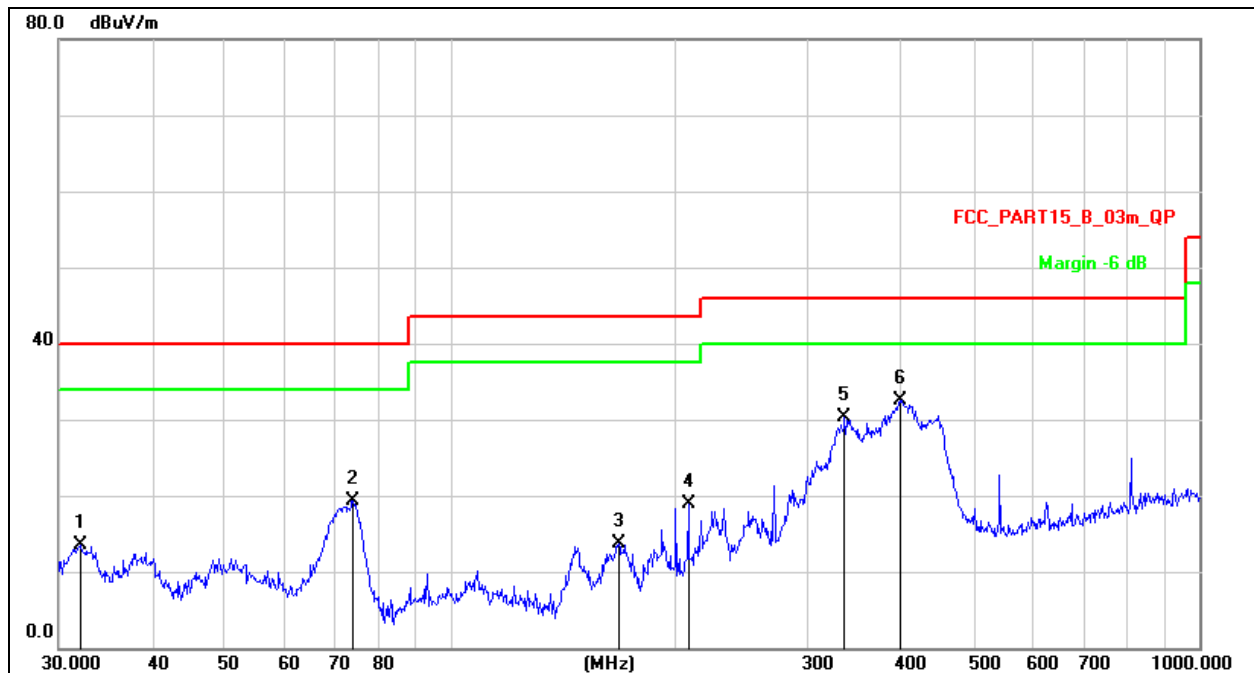
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2	Test Voltage :	AC120V/60Hz

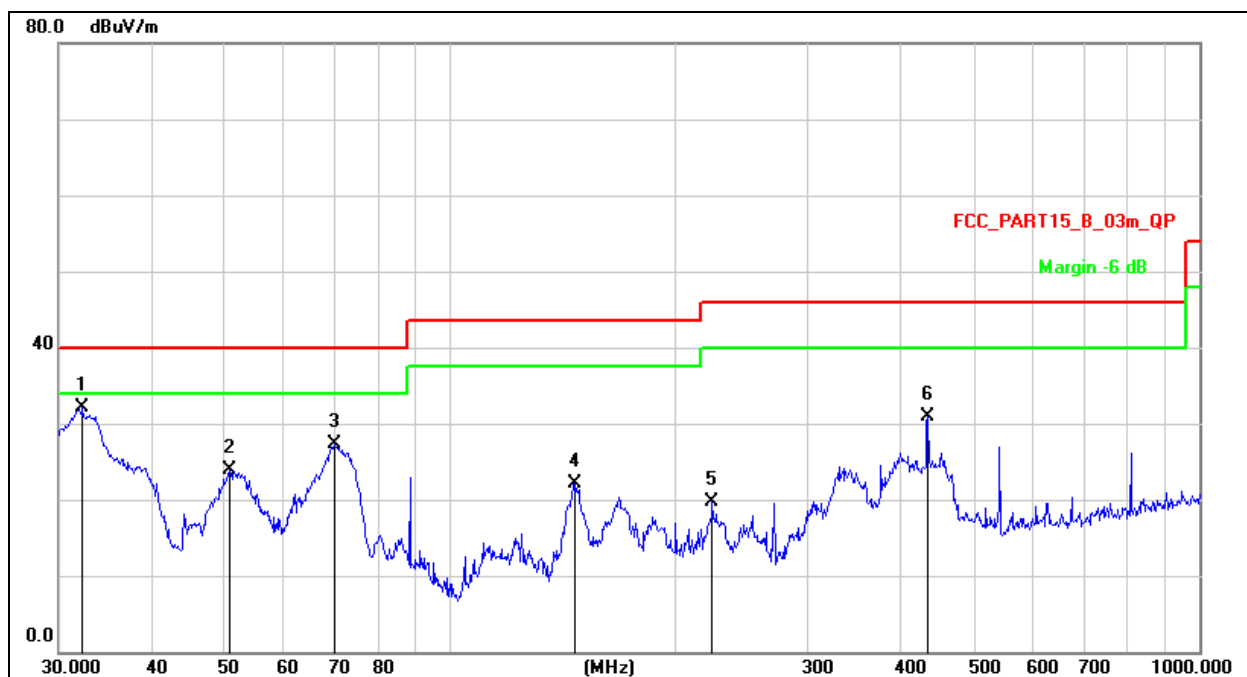


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		32.0667	31.56	-18.04	13.52	40.00	-26.48	QP
2		74.1351	39.89	-20.62	19.27	40.00	-20.73	QP
3		167.8243	33.48	-19.74	13.74	43.50	-29.76	QP
4		207.8501	35.96	-17.13	18.83	43.50	-24.67	QP
5		336.0352	43.65	-13.29	30.36	46.00	-15.64	QP
6	*	399.0302	44.79	-12.22	32.57	46.00	-13.43	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2	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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	32.2925	50.16	-18.00	32.16	40.00	-7.84	QP
2		50.7637	39.62	-15.70	23.92	40.00	-16.08	QP
3		70.0903	47.33	-19.96	27.37	40.00	-12.63	QP
4		146.8877	42.94	-20.85	22.09	43.50	-21.41	QP
5		223.7334	36.38	-16.64	19.74	46.00	-26.26	QP
6		434.0651	42.72	-11.72	31.00	46.00	-15.00	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.105	60.16	5.94	35.40	44.00	57.50	68.2	-10.70	PK
V	4434.105	43.88	5.94	35.40	44.00	41.22	54	-12.78	AV
V	10360.124	63.97	8.46	39.75	44.50	67.68	68.2	-0.52	PK
V	10360.124	43.04	8.46	39.75	44.50	46.75	54	-7.25	AV
V	15540.113	63.05	10.12	38.80	44.10	67.87	74	-6.13	PK
V	15540.113	43.44	10.12	38.80	42.70	49.66	54	-4.34	AV
H	4434.182	62.80	5.94	35.18	44.00	59.92	68.2	-8.28	PK
H	4434.182	43.48	5.94	35.18	44.00	40.60	54	-13.40	AV
H	10360.005	50.84	8.46	38.71	44.50	53.51	68.2	-14.69	PK
H	10360.005	43.48	8.46	38.71	44.50	46.15	54	-7.85	AV
H	15540.034	54.30	10.12	38.38	44.10	58.70	74	-15.30	PK
H	15540.034	44.08	10.12	38.38	44.10	48.48	54	-5.52	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.185	64.59	6.48	36.35	44.05	63.37	74	-10.63	PK
V	4592.185	43.68	6.48	36.35	44.05	42.46	54	-11.54	AV
V	10400.103	60.34	8.47	37.88	44.51	62.18	68.2	-6.02	PK
V	10400.103	43.51	8.47	37.88	44.51	45.35	54	-8.65	AV
V	15600.084	60.70	10.12	38.80	44.10	65.52	74	-8.48	PK
V	15600.084	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4592.045	64.40	6.48	36.37	44.05	63.20	74	-10.80	PK
H	4592.045	43.91	6.48	36.37	44.05	42.71	54	-11.29	AV
H	10400.182	51.81	8.47	38.64	44.50	54.42	68.2	-13.78	PK
H	10400.182	44.07	8.47	38.64	44.50	46.68	54	-7.32	AV
H	15600.098	53.69	10.12	38.38	44.10	58.09	74	-15.91	PK
H	15600.098	40.56	10.12	38.38	44.10	44.96	54	-9.04	AV
High Channel (5240 MHz)-Above 1G									
V	4739.113	64.44	7.10	37.24	43.50	65.28	74	-8.72	PK
V	4739.113	43.18	7.10	37.24	43.50	44.02	54	-9.98	AV
V	10480.035	63.06	8.46	37.68	44.50	64.70	68.2	-3.50	PK
V	10480.035	43.77	8.46	37.68	44.50	45.41	54	-8.59	AV
V	15720.078	63.32	10.12	38.80	44.10	68.14	74	-5.86	PK
V	15720.078	43.46	10.12	38.80	42.70	49.68	54	-4.32	AV
H	4739.059	64.49	7.10	37.24	43.50	65.33	74	-8.67	PK
H	4739.059	43.10	7.10	37.24	43.50	43.94	54	-10.06	AV
H	10480.183	52.76	8.46	38.57	44.50	55.29	68.2	-12.91	PK
H	10480.183	41.26	8.46	38.57	44.50	43.79	54	-10.21	AV
H	15720.053	53.54	10.12	38.38	44.10	57.94	74	-16.06	PK
H	15720.053	43.76	10.12	38.38	44.10	48.16	54	-5.84	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.096	60.89	5.94	35.40	44.00	58.23	68.2	-9.97	PK
V	4434.096	43.39	5.94	35.40	44.00	40.73	54	-13.27	AV
V	10360.111	63.70	8.46	39.75	44.50	67.41	68.2	-0.79	PK
V	10360.111	43.20	8.46	39.75	44.50	46.91	54	-7.09	AV
V	15540.021	64.18	10.12	38.80	44.10	69.00	74	-5.00	PK
V	15540.021	43.34	10.12	38.80	42.70	49.56	54	-4.44	AV
H	4434.180	64.01	5.94	35.18	44.00	61.13	68.2	-7.07	PK
H	4434.180	43.20	5.94	35.18	44.00	40.32	54	-13.68	AV
H	10360.020	50.46	8.46	38.71	44.50	53.13	68.2	-15.07	PK
H	10360.020	43.82	8.46	38.71	44.50	46.49	54	-7.51	AV
H	15540.003	53.95	10.12	38.38	44.10	58.35	74	-15.65	PK
H	15540.003	40.46	10.12	38.38	44.10	44.86	54	-9.14	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.098	60.79	6.48	36.35	44.05	59.57	74	-14.43	PK
V	4592.098	43.97	6.48	36.35	44.05	42.75	54	-11.25	AV
V	10400.022	62.74	8.47	37.88	44.51	64.58	68.2	-3.62	PK
V	10400.022	43.37	8.47	37.88	44.51	45.21	54	-8.79	AV
V	15600.069	62.53	10.12	38.80	44.10	67.35	74	-6.65	PK
V	15600.069	43.09	10.12	38.80	42.70	49.31	54	-4.69	AV
H	4592.041	64.16	6.48	36.37	44.05	62.96	74	-11.04	PK
H	4592.041	43.44	6.48	36.37	44.05	42.24	54	-11.76	AV
H	10400.130	53.92	8.47	38.64	44.50	56.53	68.2	-11.67	PK
H	10400.130	40.19	8.47	38.64	44.50	42.80	54	-11.20	AV
H	15600.064	53.19	10.12	38.38	44.10	57.59	74	-16.41	PK
H	15600.064	43.28	10.12	38.38	44.10	47.68	54	-6.32	AV
High Channel (5240 MHz)-Above 1G									
V	4739.179	63.54	7.10	37.24	43.50	64.38	74	-9.62	PK
V	4739.179	43.92	7.10	37.24	43.50	44.76	54	-9.24	AV
V	10480.061	62.52	8.46	37.68	44.50	64.16	68.2	-4.04	PK
V	10480.061	43.04	8.46	37.68	44.50	44.68	54	-9.32	AV
V	15720.027	64.45	10.12	38.80	44.10	69.27	74	-4.73	PK
V	15720.027	43.15	10.12	38.80	42.70	49.37	54	-4.63	AV
H	4739.146	61.69	7.10	37.24	43.50	62.53	74	-11.47	PK
H	4739.146	43.96	7.10	37.24	43.50	44.80	54	-9.20	AV
H	10480.120	53.21	8.46	38.57	44.50	55.74	68.2	-12.46	PK
H	10480.120	44.22	8.46	38.57	44.50	46.75	54	-7.25	AV
H	15720.090	51.19	10.12	38.38	44.10	55.59	74	-18.41	PK
H	15720.090	40.72	10.12	38.38	44.10	45.12	54	-8.88	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.100	62.21	5.94	35.40	44.00	59.55	68.2	-8.65	PK
V	4434.100	43.03	5.94	35.40	44.00	40.37	54	-13.63	AV
V	10380.016	60.91	8.46	39.75	44.50	64.62	68.2	-3.58	PK
V	10380.016	43.08	8.46	39.75	44.50	46.79	54	-7.21	AV
V	15570.156	62.79	10.12	38.80	44.10	67.61	74	-6.39	PK
V	15570.156	43.90	10.12	38.80	42.70	50.12	54	-3.88	AV
H	4434.039	61.17	5.94	35.18	44.00	58.29	74	-15.71	PK
H	4434.039	43.00	5.94	35.18	44.00	40.12	54	-13.88	AV
H	10380.189	54.71	8.46	38.71	44.50	57.38	68.2	-10.82	PK
H	10380.189	43.96	8.46	38.71	44.50	46.63	54	-7.37	AV
H	15570.089	50.34	10.12	38.38	44.10	54.74	74	-19.26	PK
H	15570.089	44.27	10.12	38.38	44.10	48.67	54	-5.33	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.121	60.21	6.48	36.35	44.05	58.99	68.2	-9.21	PK
V	4739.121	43.38	6.48	36.35	44.05	42.16	54	-11.84	AV
V	10460.154	61.09	8.47	37.88	44.51	62.93	68.2	-5.27	PK
V	10460.154	43.82	8.47	37.88	44.51	45.66	54	-8.34	AV
V	15690.089	64.48	10.12	38.80	44.10	69.30	74	-4.70	PK
V	15690.089	43.78	10.12	38.80	42.70	50.00	54	-4.00	AV
H	4739.125	63.67	6.48	36.37	44.05	62.47	68.2	-5.73	PK
H	4739.125	43.13	6.48	36.37	44.05	41.93	54	-12.07	AV
H	10460.121	52.24	8.47	38.64	44.50	54.85	68.2	-13.35	PK
H	10460.121	43.33	8.47	38.64	44.50	45.94	54	-8.06	AV
H	15690.002	52.46	10.12	38.38	44.10	56.86	74	-17.14	PK
H	15690.002	40.88	10.12	38.38	44.10	45.28	54	-8.72	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.143	61.29	5.94	35.40	44.00	58.63	68.2	-9.57	PK
V	4434.143	43.80	5.94	35.40	44.00	41.14	54	-12.86	AV
V	10360.013	62.01	8.46	39.75	44.50	65.72	68.2	-2.48	PK
V	10360.013	43.22	8.46	39.75	44.50	46.93	54	-7.07	AV
V	15540.187	60.11	10.12	38.80	44.10	64.93	74	-9.07	PK
V	15540.187	43.79	10.12	38.80	42.70	50.01	54	-3.99	AV
H	4434.004	60.18	5.94	35.18	44.00	57.30	68.2	-10.90	PK
H	4434.004	43.23	5.94	35.18	44.00	40.35	54	-13.65	AV
H	10360.090	53.56	8.46	38.71	44.50	56.23	68.2	-11.97	PK
H	10360.090	43.31	8.46	38.71	44.50	45.98	54	-8.02	AV
H	15540.047	52.25	10.12	38.38	44.10	56.65	74	-17.35	PK
H	15540.047	44.08	10.12	38.38	44.10	48.48	54	-5.52	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.198	60.42	6.48	36.35	44.05	59.20	74	-14.80	PK
V	4592.198	43.64	6.48	36.35	44.05	42.42	54	-11.58	AV
V	10400.038	62.70	8.47	37.88	44.51	64.54	68.2	-3.66	PK
V	10400.038	43.11	8.47	37.88	44.51	44.95	54	-9.05	AV
V	15600.117	61.85	10.12	38.80	44.10	66.67	74	-7.33	PK
V	15600.117	43.40	10.12	38.80	42.70	49.62	54	-4.38	AV
H	4592.163	64.04	6.48	36.37	44.05	62.84	74	-11.16	PK
H	4592.163	43.60	6.48	36.37	44.05	42.40	54	-11.60	AV
H	10400.061	51.44	8.47	38.64	44.50	54.05	68.2	-14.15	PK
H	10400.061	40.95	8.47	38.64	44.50	43.56	54	-10.44	AV
H	15600.105	51.72	10.12	38.38	44.10	56.12	74	-17.88	PK
H	15600.105	44.96	10.12	38.38	44.10	49.36	54	-4.64	AV
High Channel (5240 MHz)-Above 1G									
V	4739.097	60.89	7.10	37.24	43.50	61.73	74	-12.27	PK
V	4739.097	43.66	7.10	37.24	43.50	44.50	54	-9.50	AV
V	10480.065	61.03	8.46	37.68	44.50	62.67	68.2	-5.53	PK
V	10480.065	43.52	8.46	37.68	44.50	45.16	54	-8.84	AV
V	15720.004	63.58	10.12	38.80	44.10	68.40	74	-5.60	PK
V	15720.004	43.45	10.12	38.80	42.70	49.67	54	-4.33	AV
H	4739.084	62.25	7.10	37.24	43.50	63.09	74	-10.91	PK
H	4739.084	43.20	7.10	37.24	43.50	44.04	54	-9.96	AV
H	10480.046	54.07	8.46	38.57	44.50	56.60	68.2	-11.60	PK
H	10480.046	41.87	8.46	38.57	44.50	44.40	54	-9.60	AV
H	15720.194	54.63	10.12	38.38	44.10	59.03	74	-14.97	PK
H	15720.194	40.27	10.12	38.38	44.10	44.67	54	-9.33	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.176	63.62	5.94	35.40	44.00	60.96	68.2	-7.24	PK
V	4434.176	43.78	5.94	35.40	44.00	41.12	54	-12.88	AV
V	10380.031	63.52	8.46	39.75	44.50	67.23	68.2	-0.97	PK
V	10380.031	43.10	8.46	39.75	44.50	46.81	54	-7.19	AV
V	15570.124	63.54	10.12	38.80	44.10	68.36	74	-5.64	PK
V	15570.124	43.51	10.12	38.80	42.70	49.73	54	-4.27	AV
H	4434.106	64.82	5.94	35.18	44.00	61.94	74	-12.06	PK
H	4434.106	43.72	5.94	35.18	44.00	40.84	54	-13.16	AV
H	10380.083	50.29	8.46	38.71	44.50	52.96	68.2	-15.24	PK
H	10380.083	42.11	8.46	38.71	44.50	44.78	54	-9.22	AV
H	15570.069	54.50	10.12	38.38	44.10	58.90	74	-15.10	PK
H	15570.069	44.48	10.12	38.38	44.10	48.88	54	-5.12	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.110	60.15	6.48	36.35	44.05	58.93	68.2	-9.27	PK
V	4739.110	43.16	6.48	36.35	44.05	41.94	54	-12.06	AV
V	10460.046	60.46	8.47	37.88	44.51	62.30	68.2	-5.90	PK
V	10460.046	43.16	8.47	37.88	44.51	45.00	54	-9.00	AV
V	15690.196	60.16	10.12	38.80	44.10	64.98	74	-9.02	PK
V	15690.196	43.25	10.12	38.80	42.70	49.47	54	-4.53	AV
H	4739.184	63.25	6.48	36.37	44.05	62.05	68.2	-6.15	PK
H	4739.184	43.00	6.48	36.37	44.05	41.80	54	-12.20	AV
H	10460.142	50.69	8.47	38.64	44.50	53.30	68.2	-14.90	PK
H	10460.142	44.93	8.47	38.64	44.50	47.54	54	-6.46	AV
H	15690.035	51.84	10.12	38.38	44.10	56.24	74	-17.76	PK
H	15690.035	42.66	10.12	38.38	44.10	47.06	54	-6.94	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5210 MHz)-Above 1G									
V	4434.134	61.67	5.94	35.40	44.00	59.01	68.2	-9.19	PK
V	4434.134	43.28	5.94	35.40	44.00	40.62	54	-13.38	AV
V	10420.114	62.35	8.46	39.75	44.50	66.06	68.2	-2.14	PK
V	10420.114	43.85	8.46	39.75	44.50	47.56	54	-6.44	AV
V	15630.161	64.65	10.12	38.80	44.10	69.47	74	-4.53	PK
V	15630.161	43.61	10.12	38.80	42.70	49.83	54	-4.17	AV
H	4434.062	60.09	5.94	35.18	44.00	57.21	68.2	-10.99	PK
H	4434.062	43.75	5.94	35.18	44.00	40.87	54	-13.13	AV
H	10420.148	51.41	8.46	38.71	44.50	54.08	68.2	-14.12	PK
H	10420.148	41.32	8.46	38.71	44.50	43.99	54	-10.01	AV
H	15630.046	50.72	10.12	38.38	44.10	55.12	74	-18.88	PK
H	15630.046	44.51	10.12	38.38	44.10	48.91	54	-5.09	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.160	55.39	5.94	35.40	44.00	52.73	74	-21.27	PK
V	4679.160	43.15	5.94	35.40	44.00	40.49	54	-13.51	AV
V	11490.151	55.89	8.46	39.75	44.50	59.60	68.2	-8.60	PK
V	11490.151	43.22	8.46	39.75	44.50	46.93	54	-7.07	AV
V	17235.055	60.40	10.12	38.80	44.10	65.22	68.2	-2.98	PK
V	17235.055	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4679.070	54.25	5.94	35.18	44.00	51.37	74	-22.63	PK
H	4679.070	43.76	5.94	35.18	44.00	40.88	54	-13.12	AV
H	11490.125	54.76	8.46	38.71	44.50	57.43	68.2	-10.77	PK
H	11490.125	41.44	8.46	38.71	44.50	44.11	54	-9.89	AV
H	17235.122	53.94	10.12	38.38	44.10	58.34	68.2	-9.86	PK
H	17235.122	41.27	10.12	38.38	44.10	45.67	54	-8.33	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.093	56.88	6.48	36.35	44.05	55.66	74	-18.34	PK
V	4592.093	43.54	6.48	36.35	44.05	42.32	54	-11.68	AV
V	11570.094	56.89	8.47	37.88	44.51	58.73	68.2	-9.47	PK
V	11570.094	43.26	8.47	37.88	44.51	45.10	54	-8.90	AV
V	17355.158	57.73	10.12	38.80	44.10	62.55	68.2	-5.65	PK
V	17355.158	39.44	10.12	38.80	42.70	45.66	54	-8.34	AV
H	4592.124	57.97	6.48	36.37	44.05	56.77	74	-17.23	PK
H	4592.124	43.37	6.48	36.37	44.05	42.17	54	-11.83	AV
H	11570.140	52.97	8.47	38.64	44.50	55.58	68.2	-12.62	PK
H	11570.140	42.88	8.47	38.64	44.50	45.49	54	-8.51	AV
H	17355.182	51.62	10.12	38.38	44.10	56.02	68.2	-12.18	PK
H	17355.182	43.48	10.12	38.38	44.10	47.88	54	-6.12	AV
High Channel (5825 MHz)-Above 1G									
V	6039.197	58.89	7.10	37.24	43.50	59.73	68.2	-8.47	PK
V	6039.197	43.32	7.10	37.24	43.50	44.16	54	-9.84	AV
V	11650.004	62.00	8.46	37.68	44.50	63.64	74	-10.36	PK
V	11650.004	43.75	8.46	37.68	44.50	45.39	54	-8.61	AV
V	17475.009	57.09	10.12	38.80	44.10	61.91	68.2	-6.29	PK
V	17475.009	43.25	10.12	38.80	42.70	49.47	54	-4.53	AV
H	6039.063	56.21	7.10	37.24	43.50	57.05	68.2	-11.15	PK
H	6039.063	43.13	7.10	37.24	43.50	43.97	54	-10.03	AV
H	11650.185	50.39	8.46	38.57	44.50	52.92	74	-21.08	PK
H	11650.185	42.88	8.46	38.57	44.50	45.41	54	-8.59	AV
H	17475.122	52.17	10.12	38.38	44.10	56.57	68.2	-11.63	PK
H	17475.122	40.74	10.12	38.38	44.10	45.14	54	-8.86	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) --802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.131	56.60	5.94	35.40	44.00	53.94	74	-20.06	PK
V	4679.131	43.54	5.94	35.40	44.00	40.88	54	-13.12	AV
V	11490.182	53.11	8.46	39.75	44.50	56.82	68.2	-11.38	PK
V	11490.182	43.64	8.46	39.75	44.50	47.35	54	-6.65	AV
V	17235.079	57.23	10.12	38.80	44.10	62.05	68.2	-6.15	PK
V	17235.079	43.76	10.12	38.80	42.70	49.98	54	-4.02	AV
H	4679.007	60.90	5.94	35.18	44.00	58.02	74	-15.98	PK
H	4679.007	43.06	5.94	35.18	44.00	40.18	54	-13.82	AV
H	11490.135	48.65	8.46	38.71	44.50	51.32	68.2	-16.88	PK
H	11490.135	43.53	8.46	38.71	44.50	46.20	54	-7.80	AV
H	17235.098	54.75	10.12	38.38	44.10	59.15	68.2	-9.05	PK
H	17235.098	43.86	10.12	38.38	44.10	48.26	54	-5.74	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.162	60.39	6.48	36.35	44.05	59.17	74	-14.83	PK
V	4592.162	43.10	6.48	36.35	44.05	41.88	54	-12.12	AV
V	11570.124	54.80	8.47	37.88	44.51	56.64	68.2	-11.56	PK
V	11570.124	43.62	8.47	37.88	44.51	45.46	54	-8.54	AV
V	17355.074	61.38	10.12	38.80	44.10	66.20	68.2	-2.00	PK
V	17355.074	43.31	10.12	38.80	42.70	49.53	54	-4.47	AV
H	4592.194	59.54	6.48	36.37	44.05	58.34	74	-15.66	PK
H	4592.194	43.51	6.48	36.37	44.05	42.31	54	-11.69	AV
H	11570.192	50.10	8.47	38.64	44.50	52.71	68.2	-15.49	PK
H	11570.192	41.06	8.47	38.64	44.50	43.67	54	-10.33	AV
H	17355.155	54.22	10.12	38.38	44.10	58.62	68.2	-9.58	PK
H	17355.155	40.91	10.12	38.38	44.10	45.31	54	-8.69	AV
High Channel (5825 MHz)-Above 1G									
V	6039.145	56.76	7.10	37.24	43.50	57.60	68.2	-10.60	PK
V	6039.145	43.02	7.10	37.24	43.50	43.86	54	-10.14	AV
V	11650.181	57.14	8.46	37.68	44.50	58.78	74	-15.22	PK
V	11650.181	43.84	8.46	37.68	44.50	45.48	54	-8.52	AV
V	17475.042	59.05	10.12	38.80	44.10	63.87	68.2	-4.33	PK
V	17475.042	43.49	10.12	38.80	42.70	49.71	54	-4.29	AV
H	6039.068	55.72	7.10	37.24	43.50	56.56	68.2	-11.64	PK
H	6039.068	43.51	7.10	37.24	43.50	44.35	54	-9.65	AV
H	11650.033	51.58	8.46	38.57	44.50	54.11	74	-19.89	PK
H	11650.033	40.11	8.46	38.57	44.50	42.64	54	-11.36	AV
H	17475.145	54.09	10.12	38.38	44.10	58.49	68.2	-9.71	PK
H	17475.145	44.19	10.12	38.38	44.10	48.59	54	-5.41	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.006	60.26	5.94	35.40	44.00	57.60	74	-16.40	PK
V	4679.006	43.05	5.94	35.40	44.00	40.39	54	-13.61	AV
V	11510.199	56.88	8.46	39.75	44.50	60.59	74	-13.41	PK
V	11510.199	43.40	8.46	39.75	44.50	47.11	54	-6.89	AV
V	17265.153	58.38	10.12	38.80	44.10	63.20	68.2	-5.00	PK
V	17265.153	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.110	58.62	5.94	35.18	44.00	55.74	74	-18.26	PK
H	4679.110	43.57	5.94	35.18	44.00	40.69	54	-13.31	AV
H	11510.184	51.53	8.46	38.71	44.50	54.20	74	-19.80	PK
H	11510.184	42.45	8.46	38.71	44.50	45.12	54	-8.88	AV
H	17265.159	50.17	10.12	38.38	44.10	54.57	68.2	-13.63	PK
H	17265.159	44.95	10.12	38.38	44.10	49.35	54	-4.65	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.174	58.81	6.48	36.35	44.05	57.59	68.2	-10.61	PK
V	6039.174	43.57	6.48	36.35	44.05	42.35	54	-11.65	AV
V	11590.141	59.31	8.47	37.88	44.51	61.15	74	-12.85	PK
V	11590.141	43.51	8.47	37.88	44.51	45.35	54	-8.65	AV
V	17385.006	55.01	10.12	38.80	44.10	59.83	68.2	-8.37	PK
V	17385.006	41.23	10.12	38.80	42.70	47.45	54	-6.55	AV
H	6039.150	60.29	6.48	36.37	44.05	59.09	68.2	-9.11	PK
H	6039.150	43.87	6.48	36.37	44.05	42.67	54	-11.33	AV
H	11590.076	54.97	8.47	38.64	44.50	57.58	74	-16.42	PK
H	11590.076	42.58	8.47	38.64	44.50	45.19	54	-8.81	AV
H	17385.164	54.82	10.12	38.38	44.10	59.22	68.2	-8.98	PK
H	17385.164	44.49	10.12	38.38	44.10	48.89	54	-5.11	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
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.047	58.65	5.94	35.40	44.00	55.99	74	-18.01	PK
V	4679.047	43.10	5.94	35.40	44.00	40.44	54	-13.56	AV
V	11490.102	53.65	8.46	39.75	44.50	57.36	68.2	-10.84	PK
V	11490.102	43.08	8.46	39.75	44.50	46.79	54	-7.21	AV
V	17235.091	59.27	10.12	38.80	44.10	64.09	68.2	-4.11	PK
V	17235.091	43.44	10.12	38.80	42.70	49.66	54	-4.34	AV
H	4679.013	57.86	5.94	35.18	44.00	54.98	74	-19.02	PK
H	4679.013	43.39	5.94	35.18	44.00	40.51	54	-13.49	AV
H	11490.076	48.20	8.46	38.71	44.50	50.87	68.2	-17.33	PK
H	11490.076	43.13	8.46	38.71	44.50	45.80	54	-8.20	AV
H	17235.032	51.08	10.12	38.38	44.10	55.48	68.2	-12.72	PK
H	17235.032	41.34	10.12	38.38	44.10	45.74	54	-8.26	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.092	61.21	6.48	36.35	44.05	59.99	74	-14.01	PK
V	4592.092	43.18	6.48	36.35	44.05	41.96	54	-12.04	AV
V	11570.008	55.09	8.47	37.88	44.51	56.93	68.2	-11.27	PK
V	11570.008	43.65	8.47	37.88	44.51	45.49	54	-8.51	AV
V	17355.169	57.98	10.12	38.80	44.10	62.80	68.2	-5.40	PK
V	17355.169	43.53	10.12	38.80	42.70	49.75	54	-4.25	AV
H	4592.102	56.87	6.48	36.37	44.05	55.67	74	-18.33	PK
H	4592.102	43.54	6.48	36.37	44.05	42.34	54	-11.66	AV
H	11570.021	52.37	8.47	38.64	44.50	54.98	68.2	-13.22	PK
H	11570.021	41.98	8.47	38.64	44.50	44.59	54	-9.41	AV
H	17355.185	52.03	10.12	38.38	44.10	56.43	68.2	-11.77	PK
H	17355.185	40.30	10.12	38.38	44.10	44.70	54	-9.30	AV
High Channel (5825 MHz)-Above 1G									
V	6039.120	57.13	7.10	37.24	43.50	57.97	68.2	-10.23	PK
V	6039.120	43.76	7.10	37.24	43.50	44.60	54	-9.40	AV
V	11650.061	60.01	8.46	37.68	44.50	61.65	74	-12.35	PK
V	11650.061	43.91	8.46	37.68	44.50	45.55	54	-8.45	AV
V	17475.046	58.14	10.12	38.80	44.10	62.96	68.2	-5.24	PK
V	17475.046	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	6039.159	58.44	7.10	37.24	43.50	59.28	68.2	-8.92	PK
H	6039.159	43.93	7.10	37.24	43.50	44.77	54	-9.23	AV
H	11650.156	54.41	8.46	38.57	44.50	56.94	74	-17.06	PK
H	11650.156	42.98	8.46	38.57	44.50	45.51	54	-8.49	AV
H	17475.149	51.17	10.12	38.38	44.10	55.57	68.2	-12.63	PK
H	17475.149	40.01	10.12	38.38	44.10	44.41	54	-9.59	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 :	TX (5.8G) -- 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.108	56.88	5.94	35.40	44.00	54.22	74	-19.78	PK
V	4679.108	43.81	5.94	35.40	44.00	41.15	54	-12.85	AV
V	11510.085	55.45	8.46	39.75	44.50	59.16	74	-14.84	PK
V	11510.085	43.17	8.46	39.75	44.50	46.88	54	-7.12	AV
V	17265.162	59.66	10.12	38.80	44.10	64.48	68.2	-3.72	PK
V	17265.162	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.006	58.32	5.94	35.18	44.00	55.44	74	-18.56	PK
H	4679.006	43.60	5.94	35.18	44.00	40.72	54	-13.28	AV
H	11510.024	54.35	8.46	38.71	44.50	57.02	74	-16.98	PK
H	11510.024	40.50	8.46	38.71	44.50	43.17	54	-10.83	AV
H	17265.014	52.26	10.12	38.38	44.10	56.66	68.2	-11.54	PK
H	17265.014	43.25	10.12	38.38	44.10	47.65	54	-6.35	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.173	60.47	6.48	36.35	44.05	59.25	68.2	-8.95	PK
V	6039.173	43.55	6.48	36.35	44.05	42.33	54	-11.67	AV
V	11590.117	55.08	8.47	37.88	44.51	56.92	74	-17.08	PK
V	11590.117	43.99	8.47	37.88	44.51	45.83	54	-8.17	AV
V	17385.054	55.21	10.12	38.80	44.10	60.03	68.2	-8.17	PK
V	17385.054	41.31	10.12	38.80	42.70	47.53	54	-6.47	AV
H	6039.193	57.18	6.48	36.37	44.05	55.98	68.2	-12.22	PK
H	6039.193	43.88	6.48	36.37	44.05	42.68	54	-11.32	AV
H	11590.090	54.09	8.47	38.64	44.50	56.70	74	-17.30	PK
H	11590.090	42.93	8.47	38.64	44.50	45.54	54	-8.46	AV
H	17385.087	50.56	10.12	38.38	44.10	54.96	68.2	-13.24	PK
H	17385.087	42.77	10.12	38.38	44.10	47.17	54	-6.83	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX (5.8G) -- 802.11ac 80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G									
V	4679.121	57.68	5.94	35.40	44.00	55.02	74	-18.98	PK
V	4679.121	43.61	5.94	35.40	44.00	40.95	54	-13.05	AV
V	11550.040	59.74	8.46	39.75	44.50	63.45	74	-10.55	PK
V	11550.040	43.01	8.46	39.75	44.50	46.72	54	-7.28	AV
V	17325.076	60.69	10.12	38.80	44.10	65.51	68.2	-2.69	PK
V	17325.076	41.33	10.12	38.80	42.70	47.55	54	-6.45	AV
H	4679.055	56.83	5.94	35.18	44.00	53.95	74	-20.05	PK
H	4679.055	43.75	5.94	35.18	44.00	40.87	54	-13.13	AV
H	11550.164	50.65	8.46	38.71	44.50	53.32	74	-20.68	PK
H	11550.164	44.84	8.46	38.71	44.50	47.51	54	-6.49	AV
H	17325.174	51.29	10.12	38.38	44.10	55.69	68.2	-12.51	PK
H	17325.174	40.76	10.12	38.38	44.10	45.16	54	-8.84	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 $RBW \geq 1/T$, 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

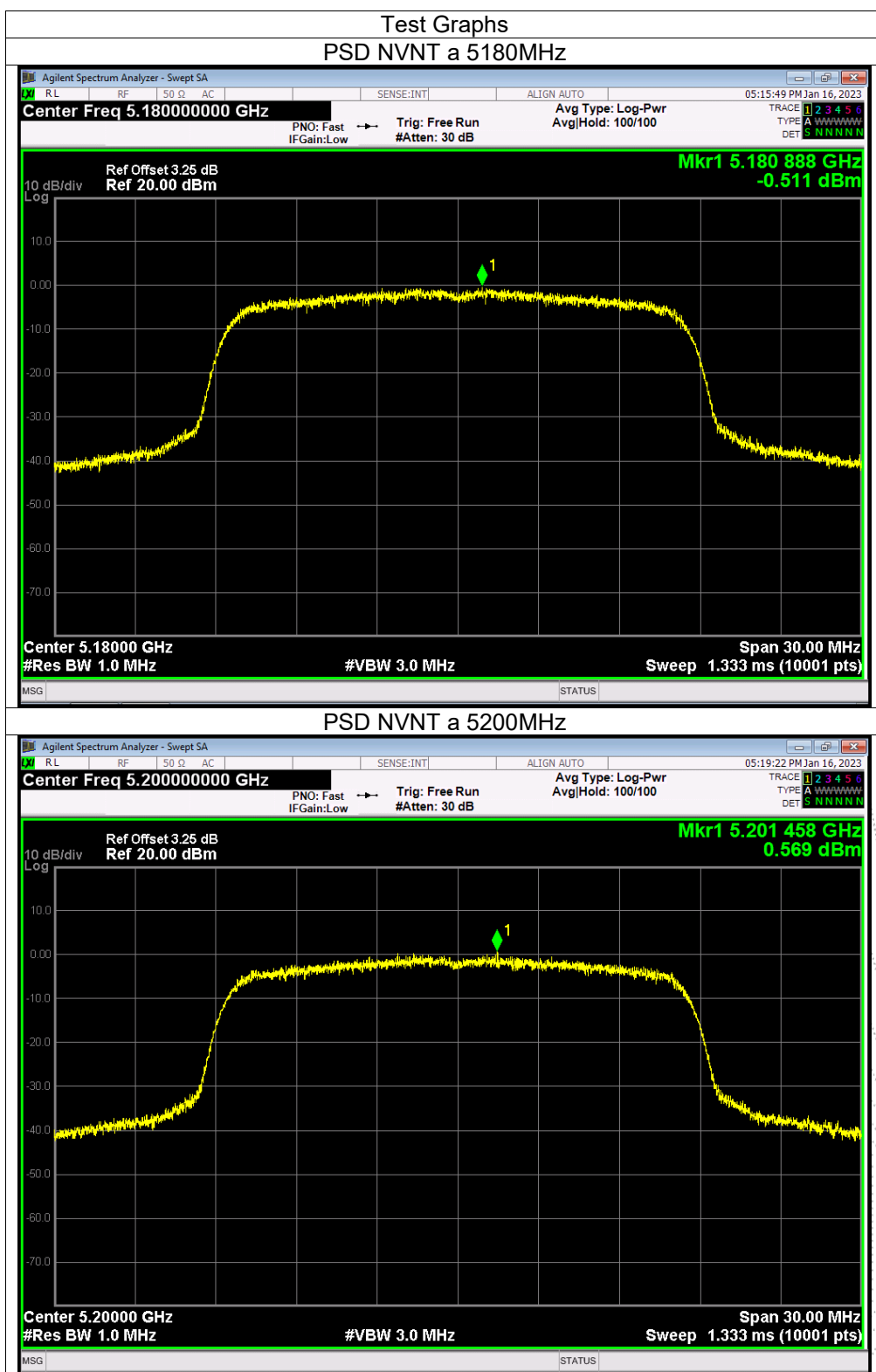
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

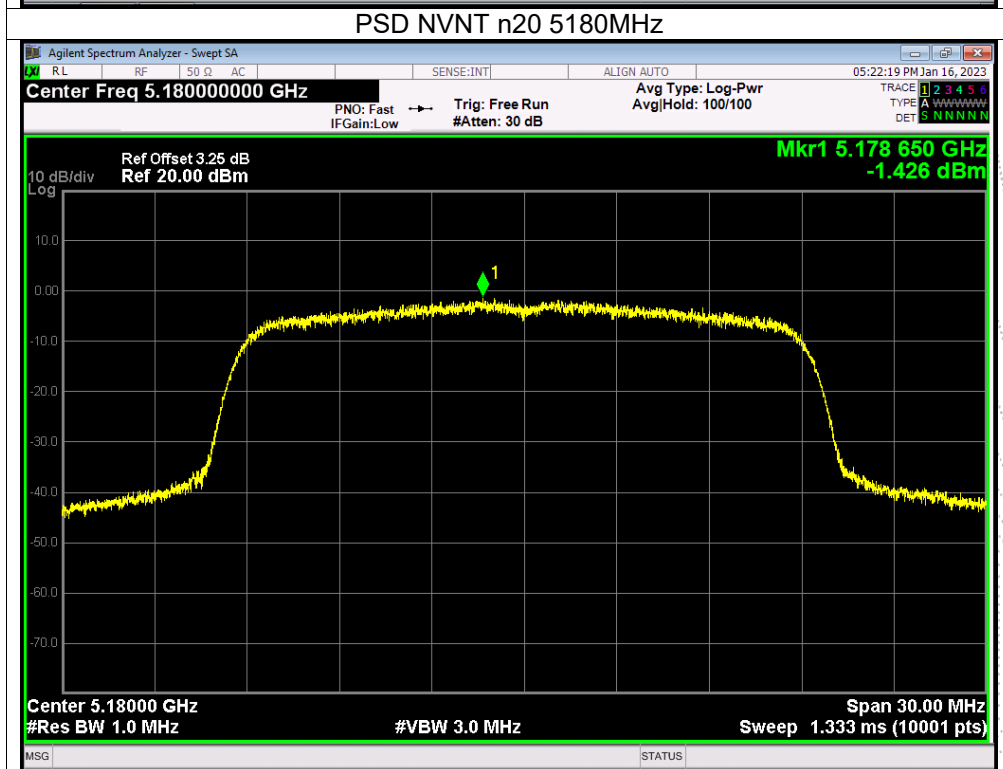
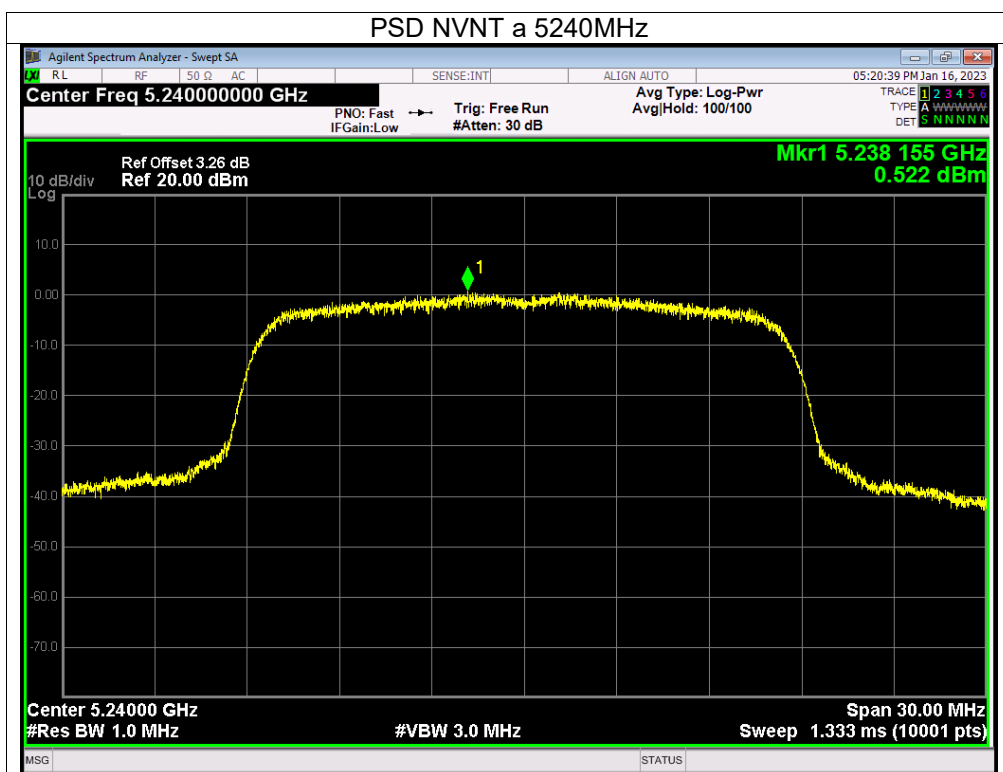
8.5 Test Result

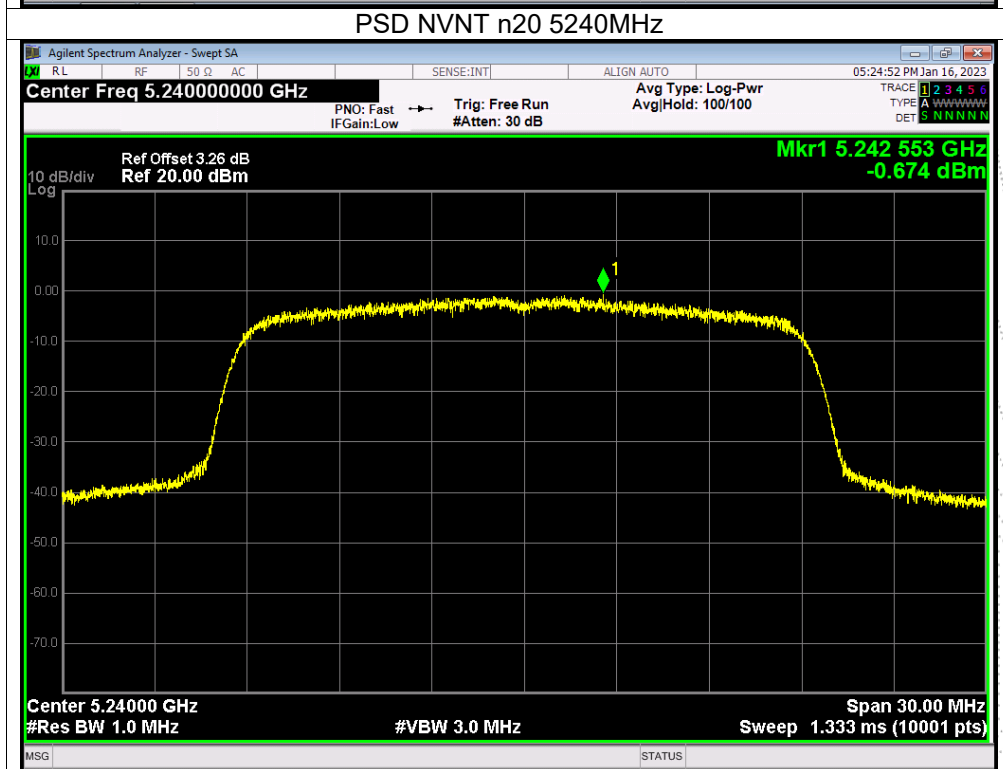
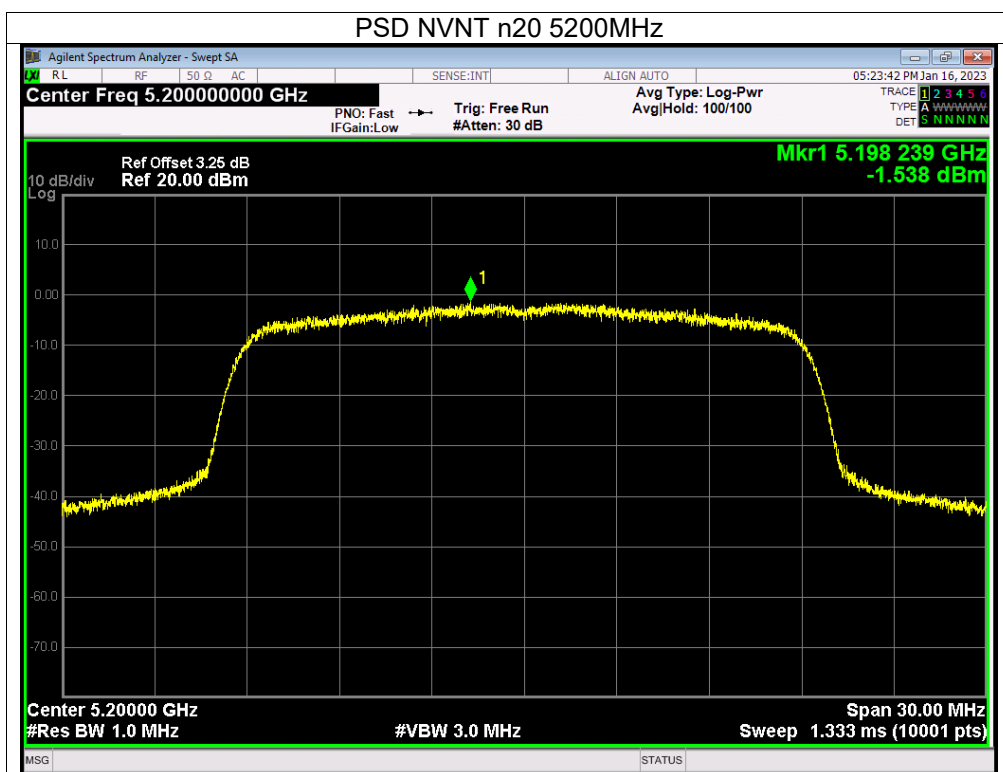
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	(5180-5240MHz); (5745-5825MHz)		

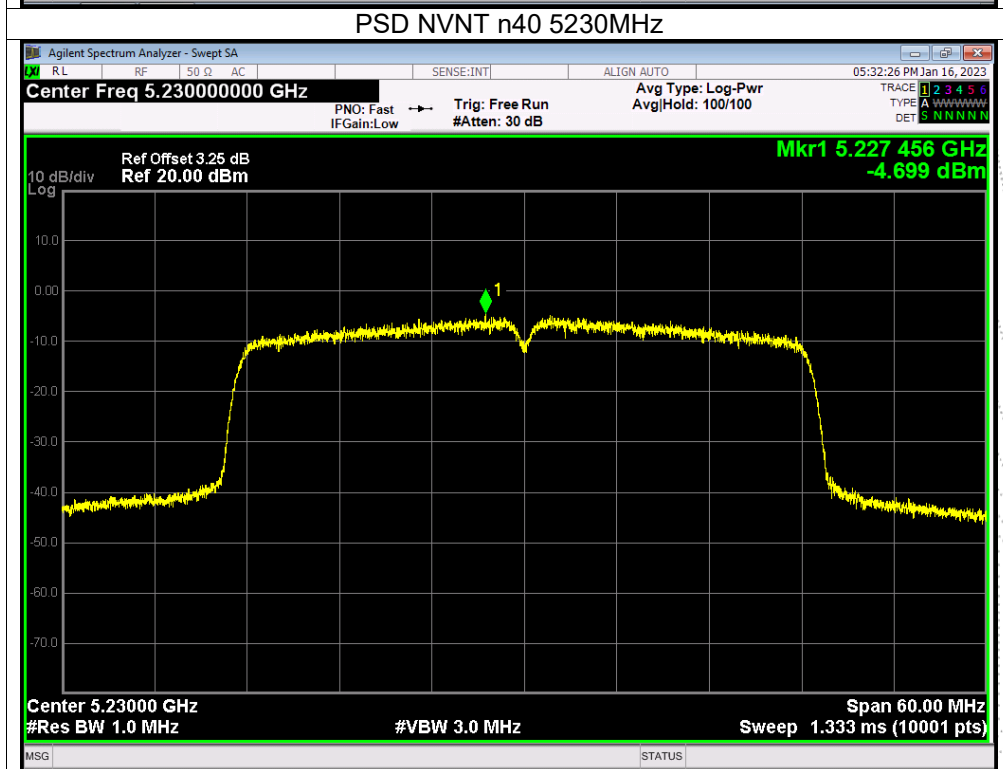
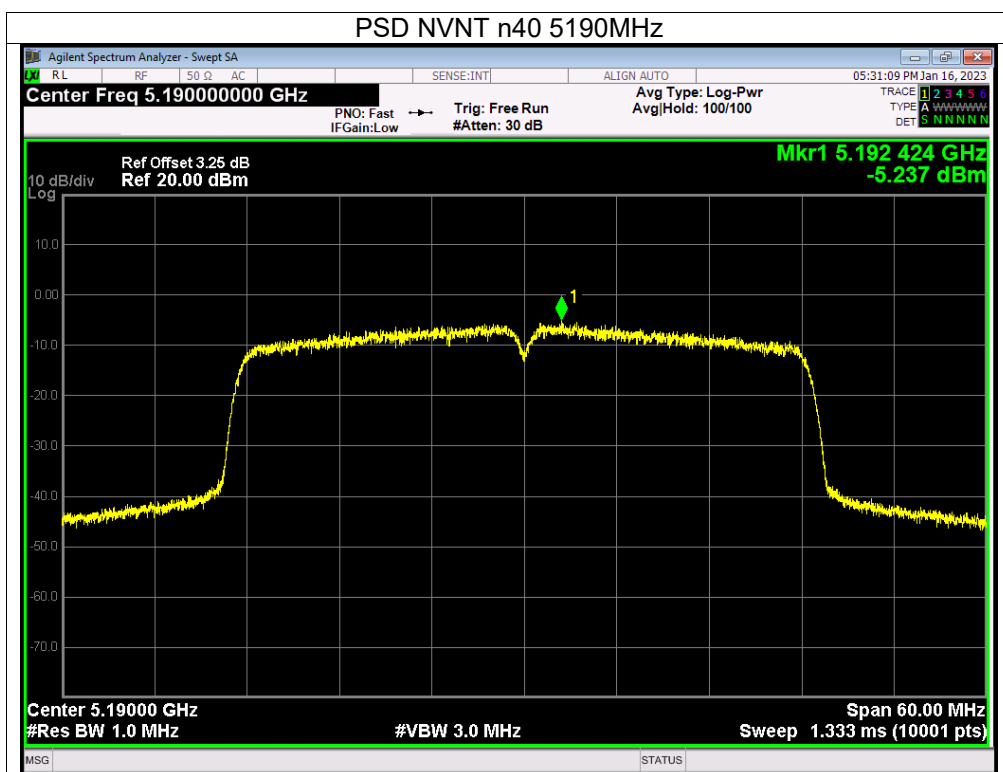
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-0.51	11	Pass
NVNT	a	5200	0.57	11	Pass
NVNT	a	5240	0.52	11	Pass
NVNT	n20	5180	-1.43	11	Pass
NVNT	n20	5200	-1.54	11	Pass
NVNT	n20	5240	-0.67	11	Pass
NVNT	n40	5190	-5.24	11	Pass
NVNT	n40	5230	-4.7	11	Pass
NVNT	ac20	5180	-1.76	11	Pass
NVNT	ac20	5200	-1.15	11	Pass
NVNT	ac20	5240	-1.18	11	Pass
NVNT	ac40	5190	-5.61	11	Pass
NVNT	ac40	5230	-5.14	11	Pass
NVNT	ac80	5210	-9.96	11	Pass

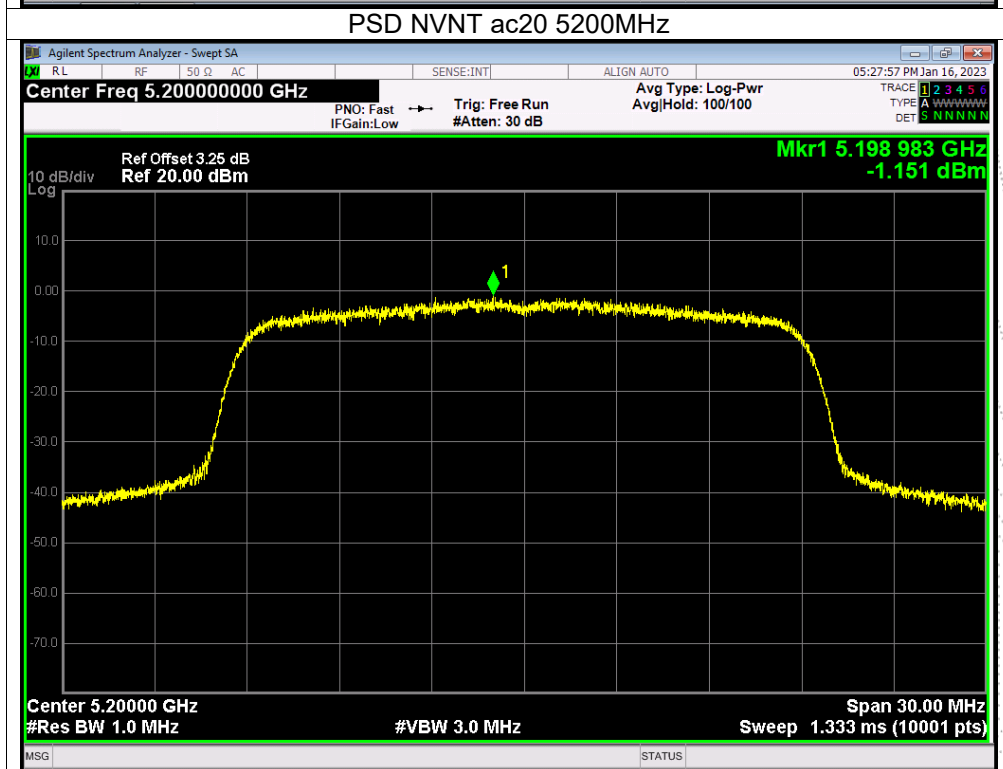
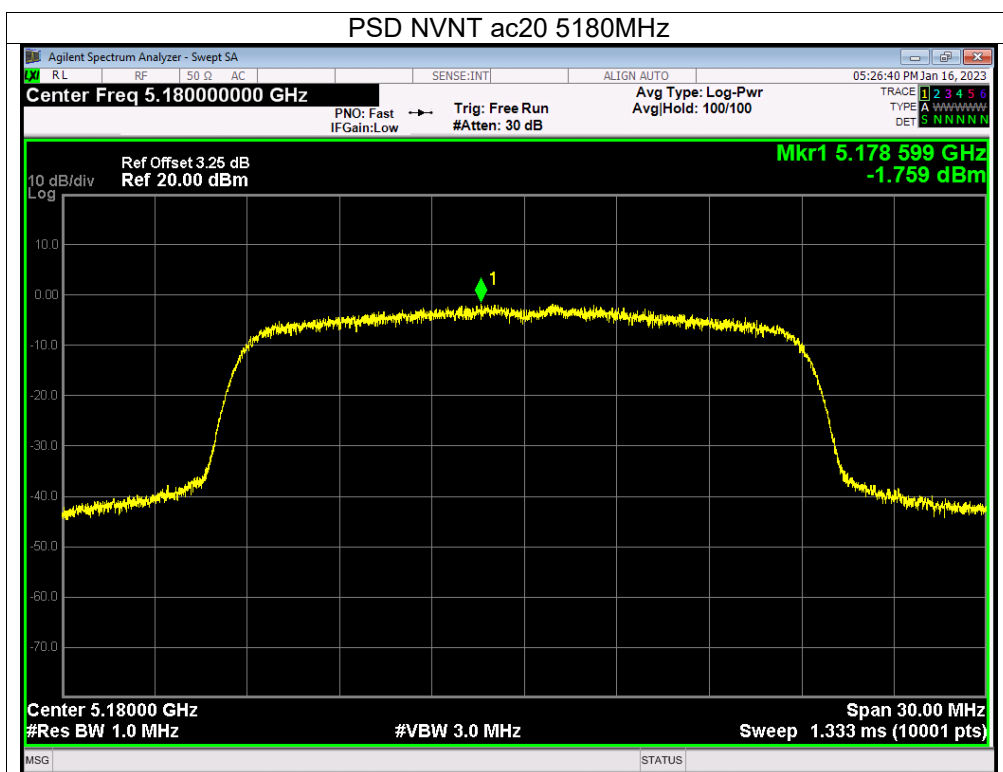
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-3.78	30	Pass
NVNT	a	5785	-5.01	30	Pass
NVNT	a	5825	-5.88	30	Pass
NVNT	n20	5745	-4.57	30	Pass
NVNT	n20	5785	-5.29	30	Pass
NVNT	n20	5825	-6.57	30	Pass
NVNT	n40	5755	-8.59	30	Pass
NVNT	n40	5795	-10.01	30	Pass
NVNT	ac20	5745	-5.39	30	Pass
NVNT	ac20	5785	-5.41	30	Pass
NVNT	ac20	5825	-6.41	30	Pass
NVNT	ac40	5755	-8.77	30	Pass
NVNT	ac40	5795	-9.62	30	Pass
NVNT	ac80	5775	-14.11	30	Pass

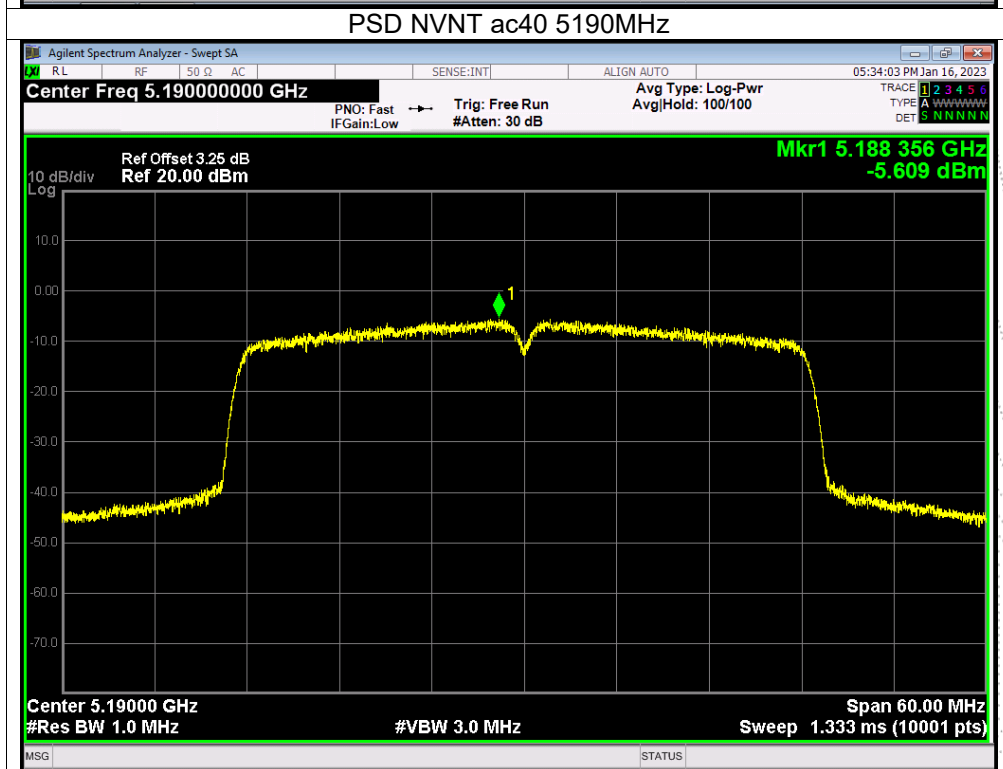
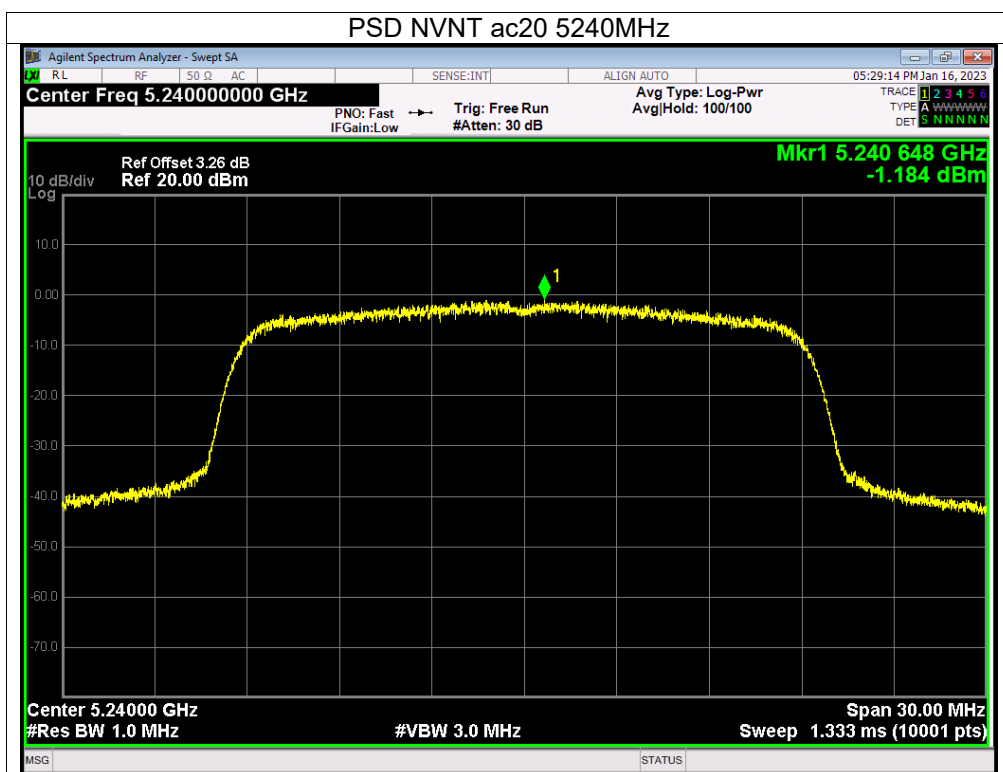


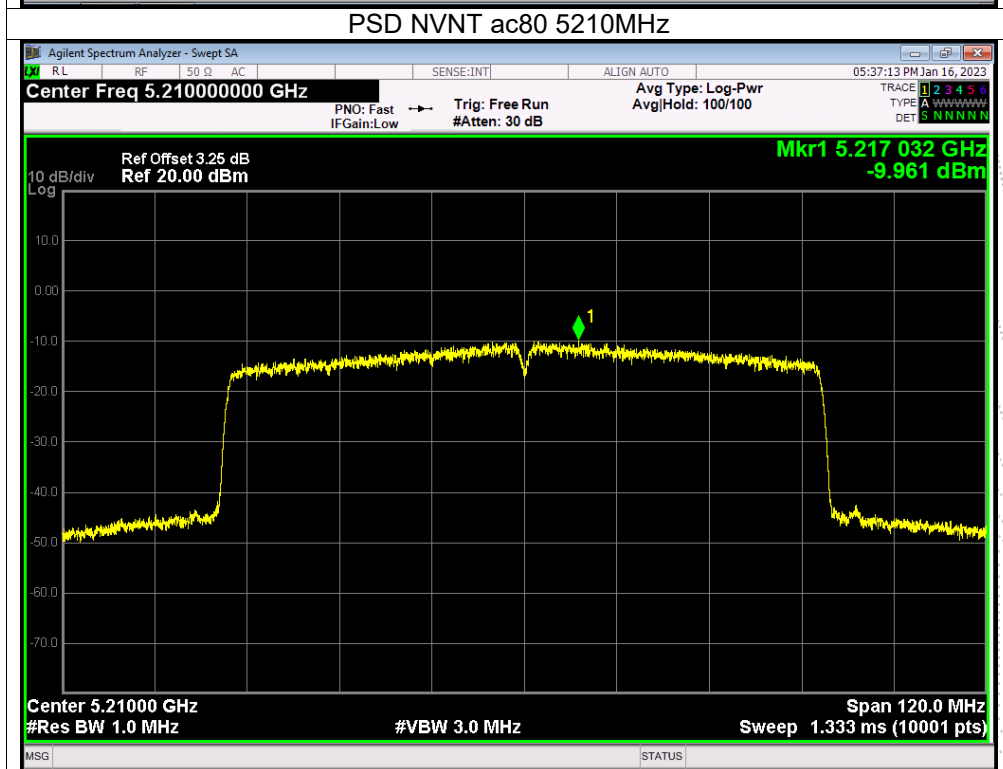
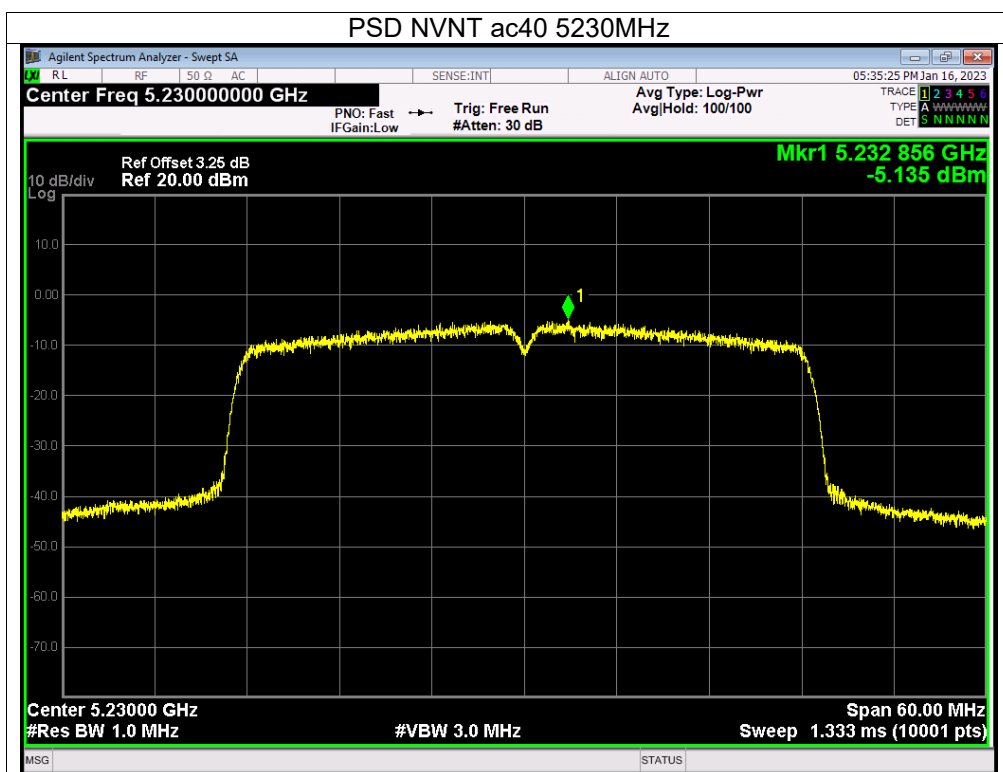


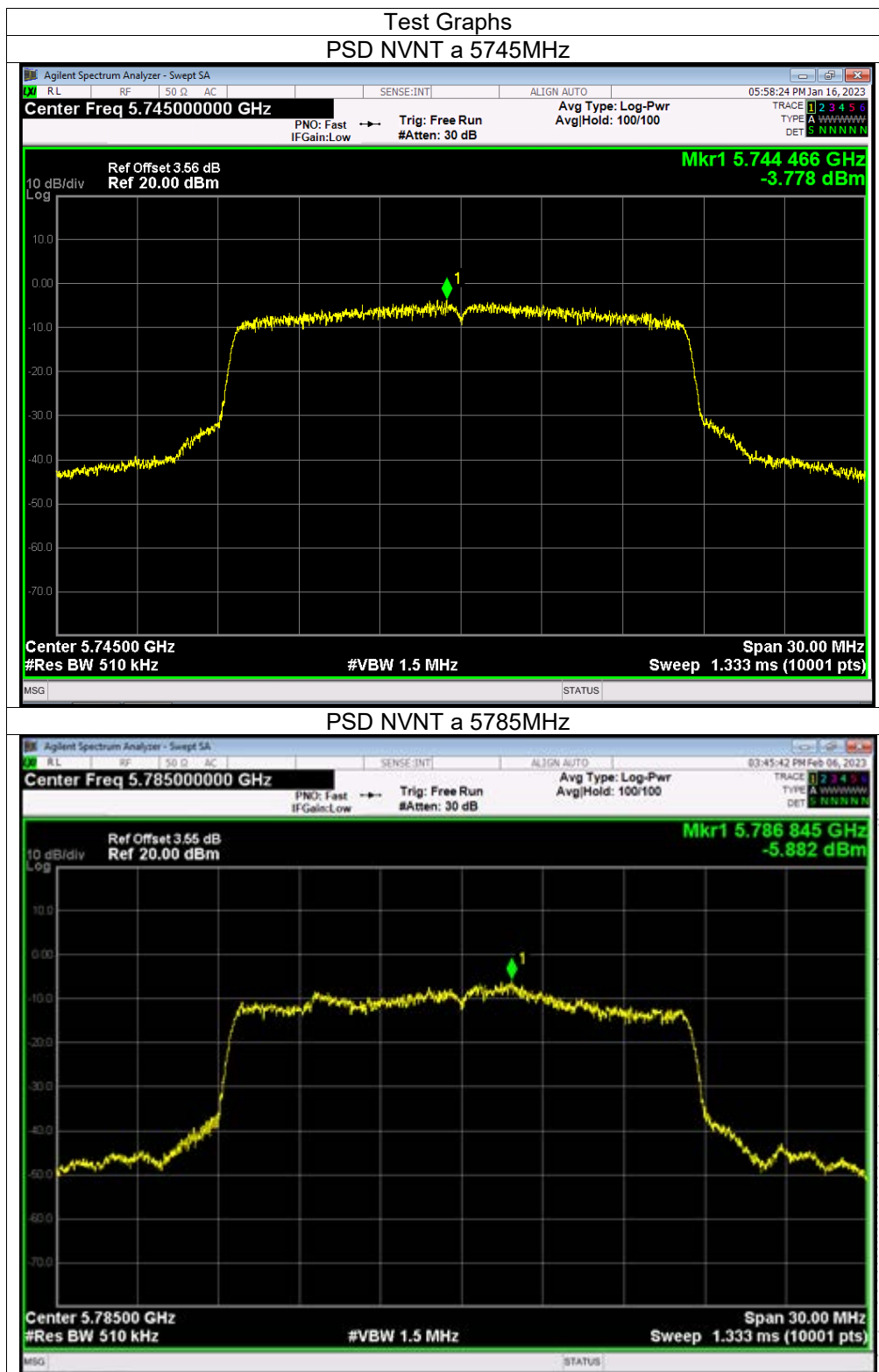


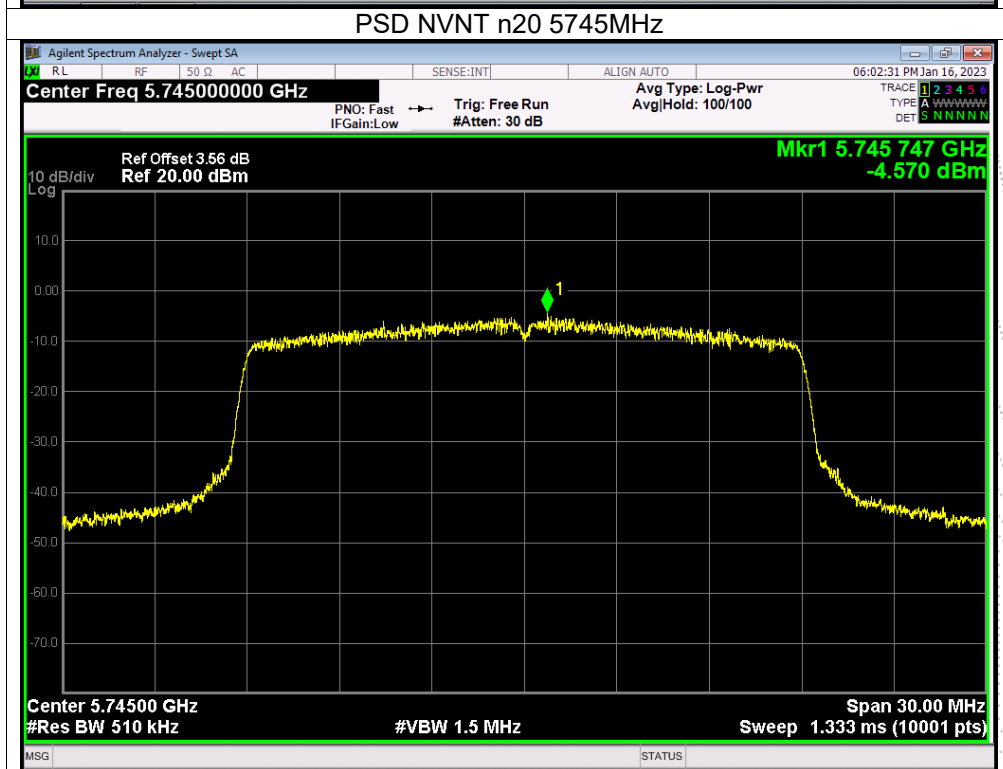
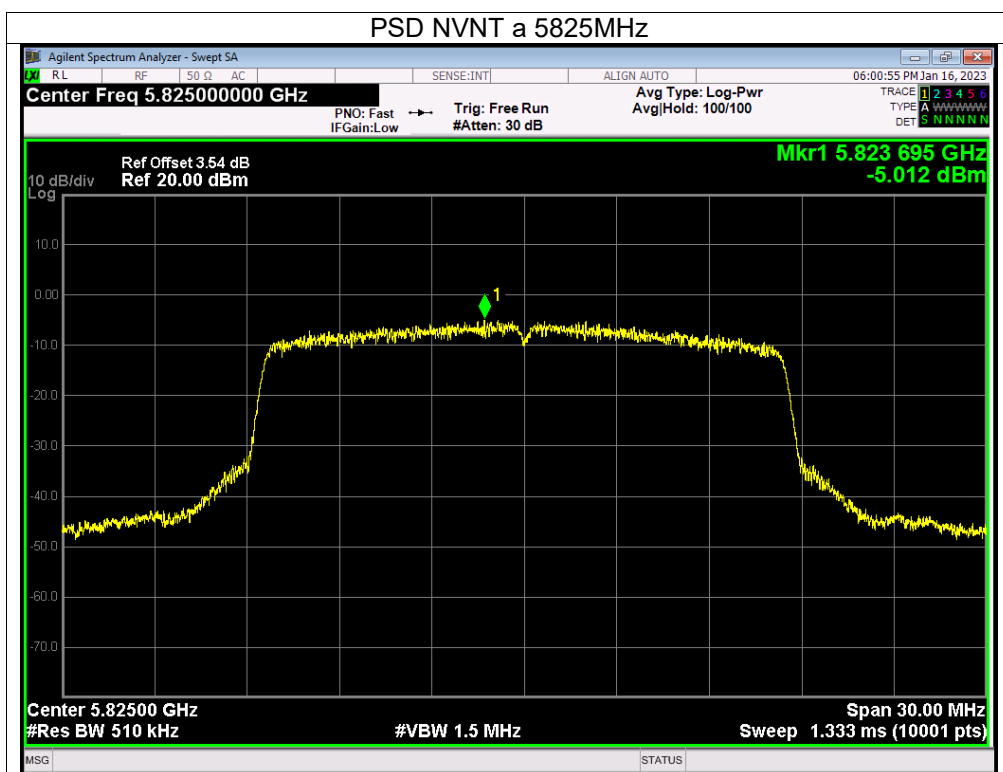


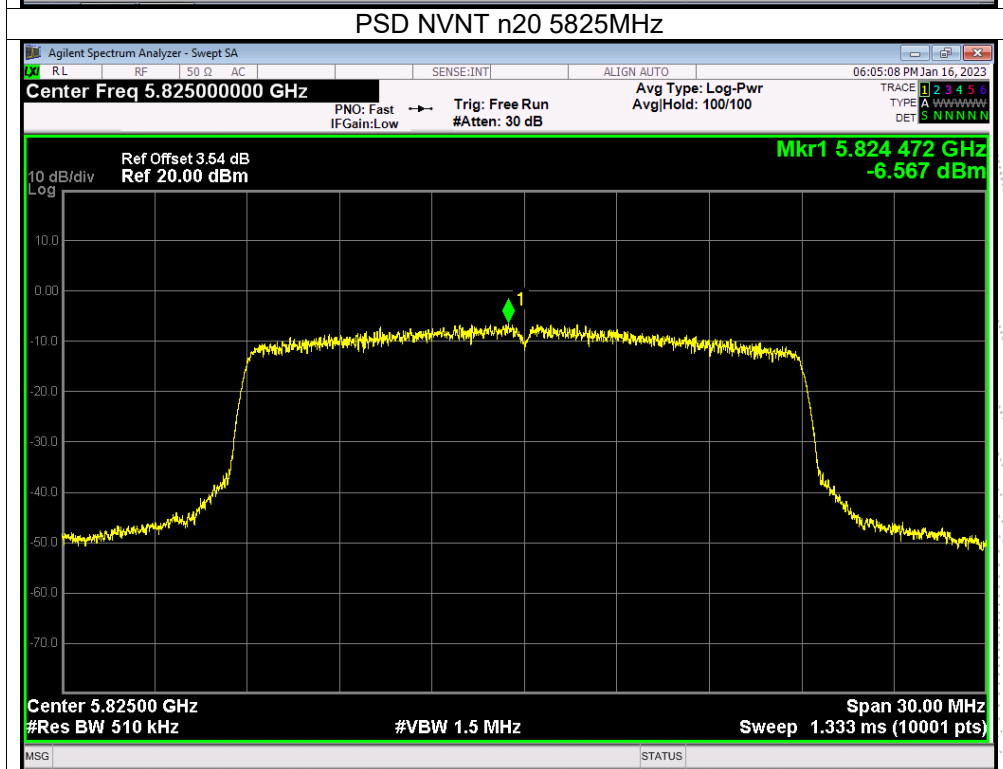
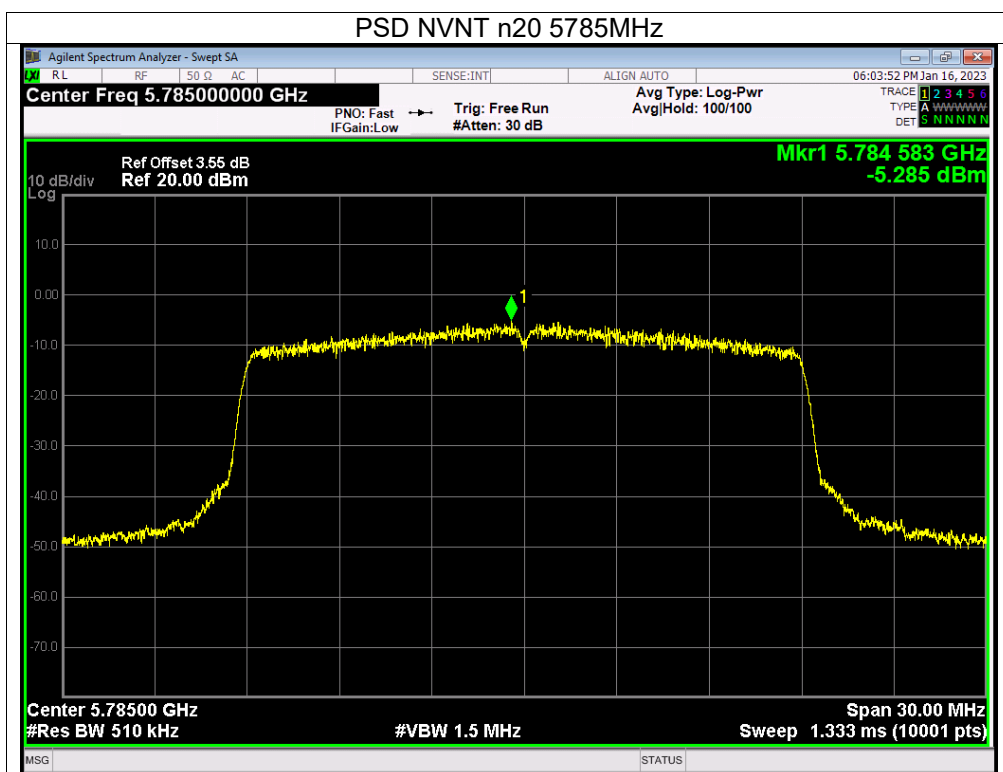


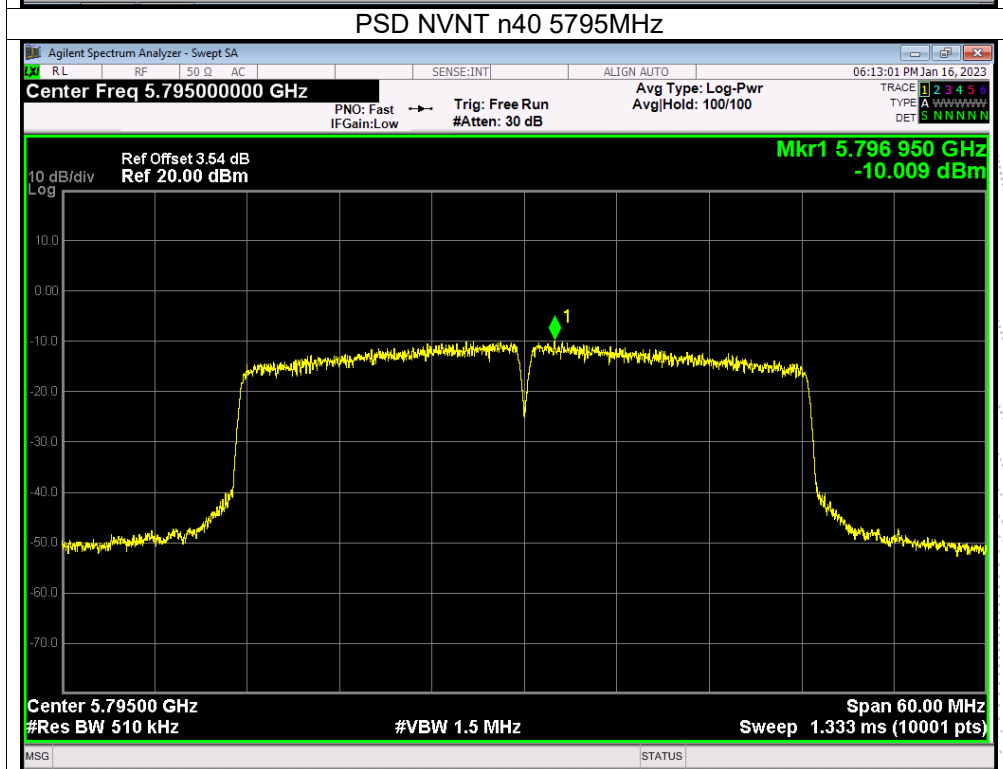
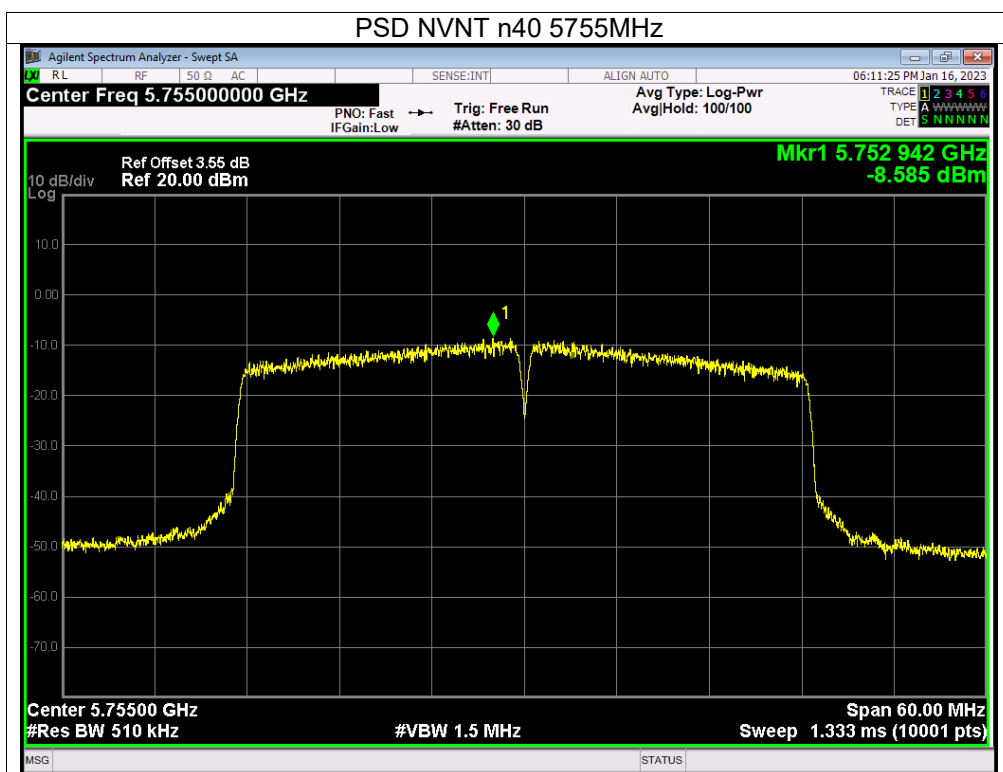


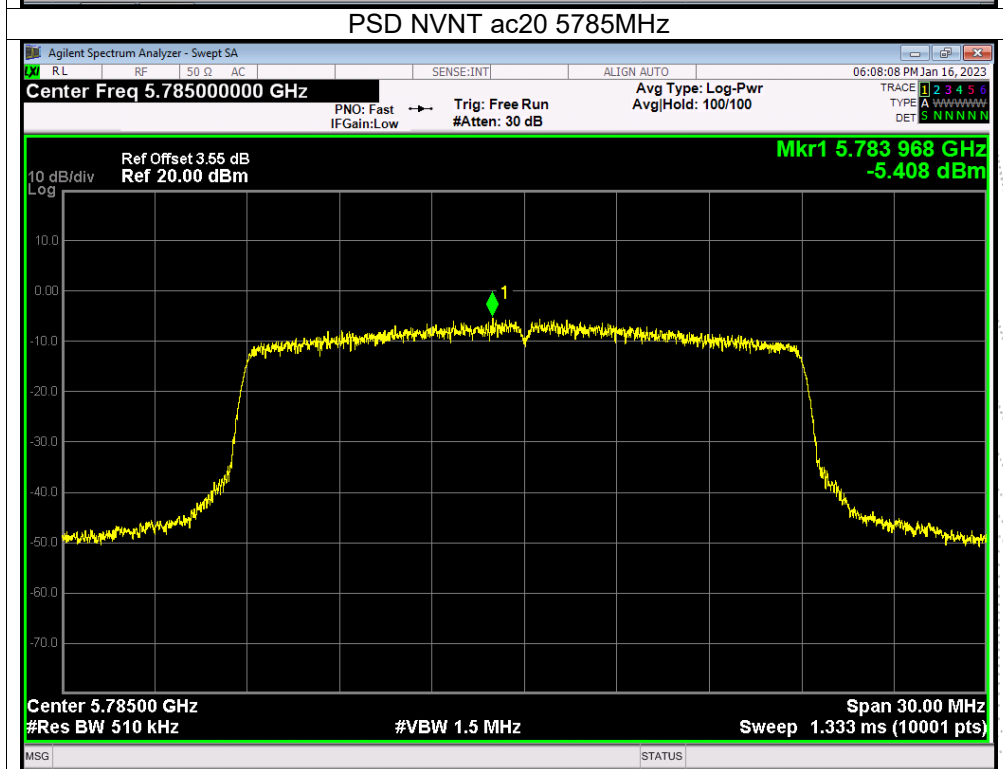
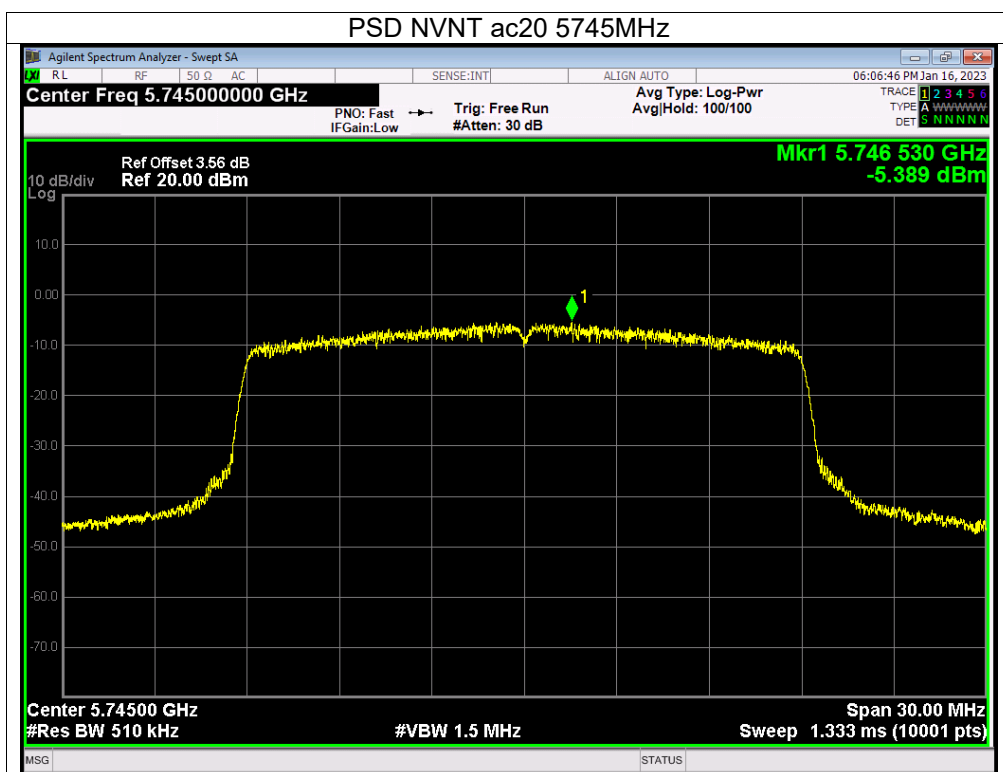


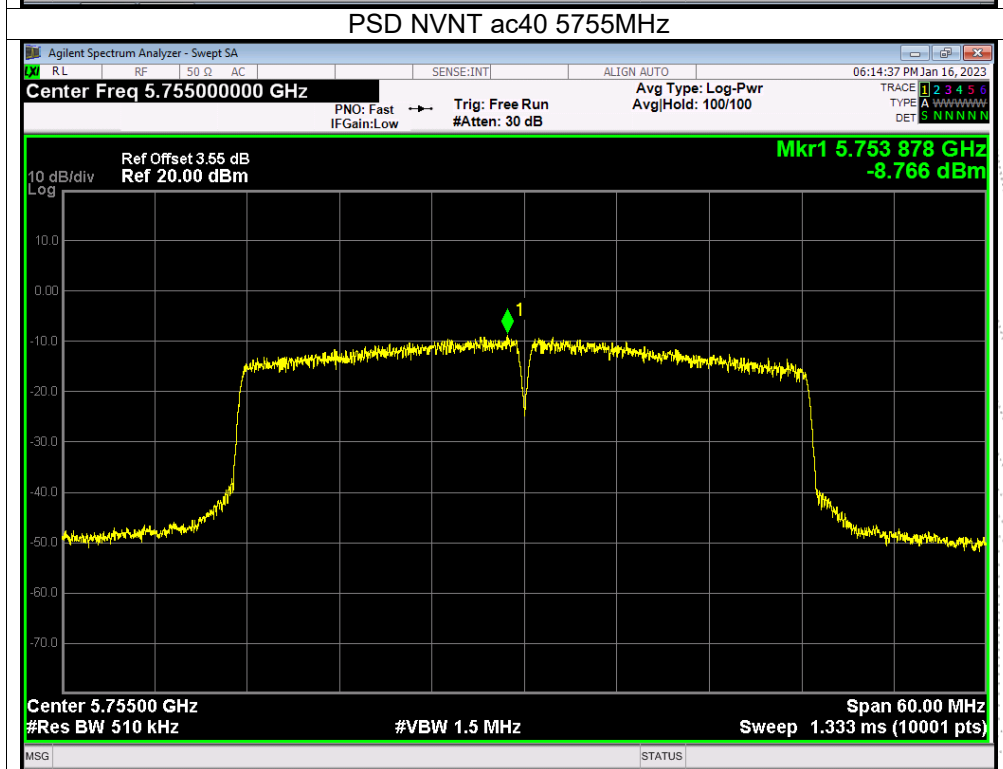
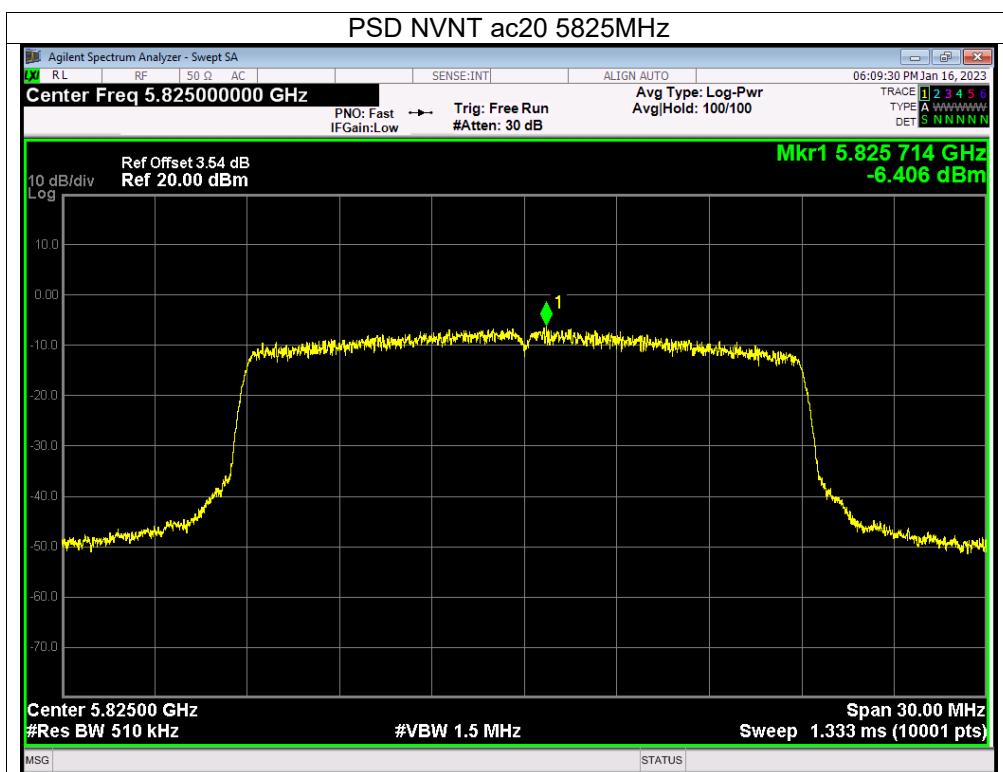


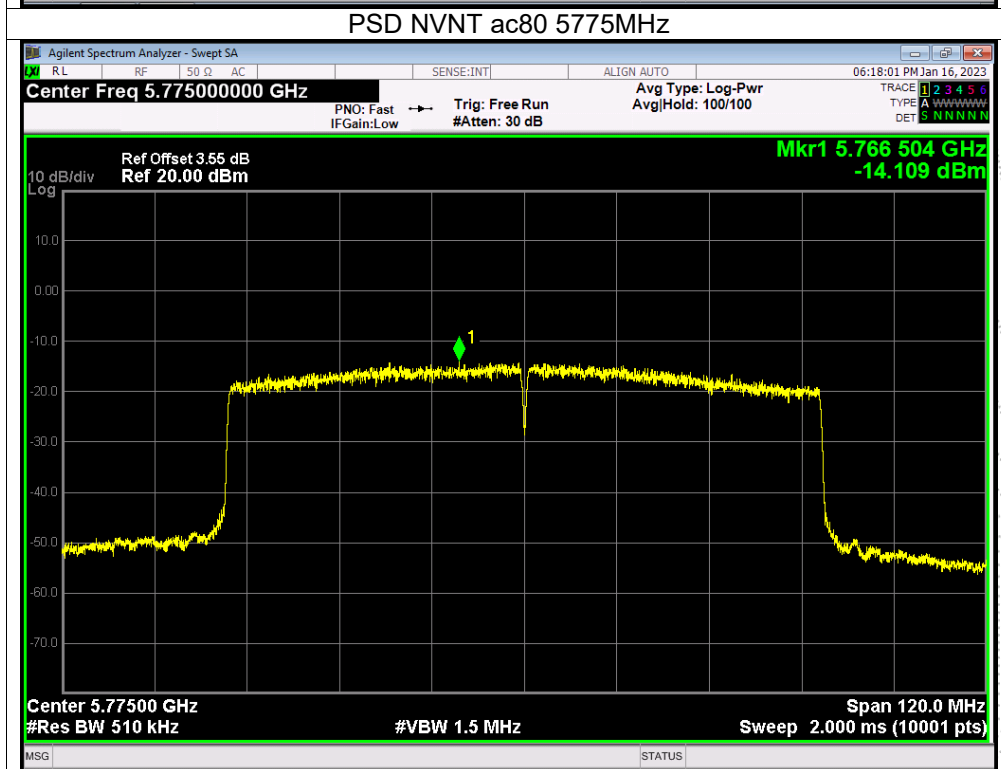
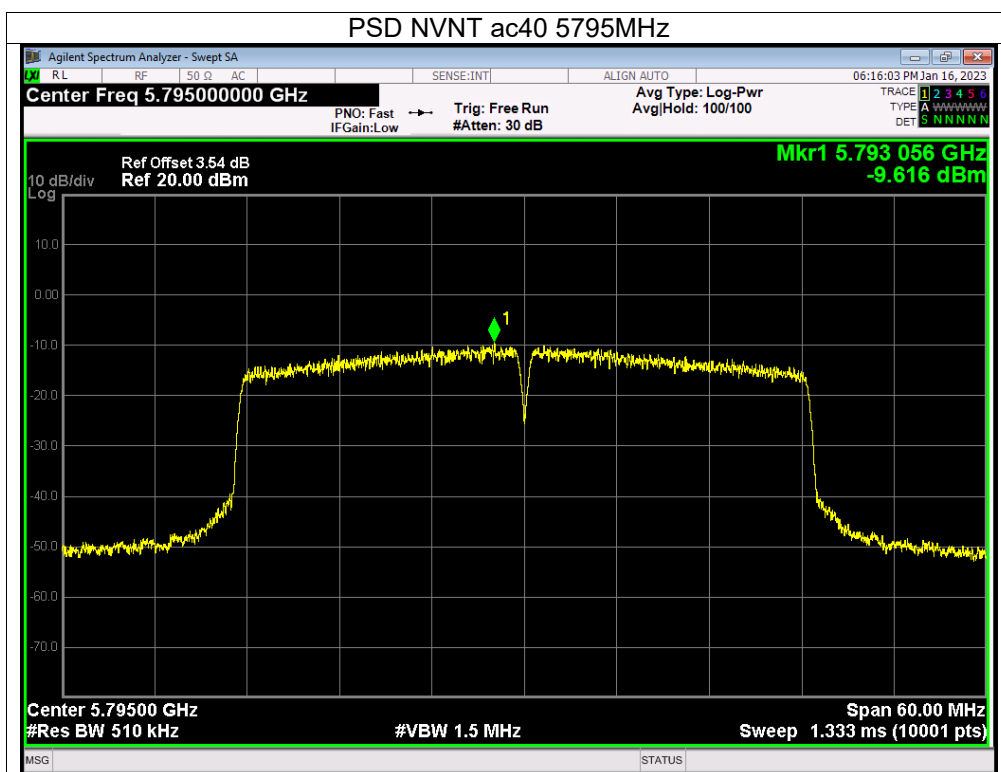






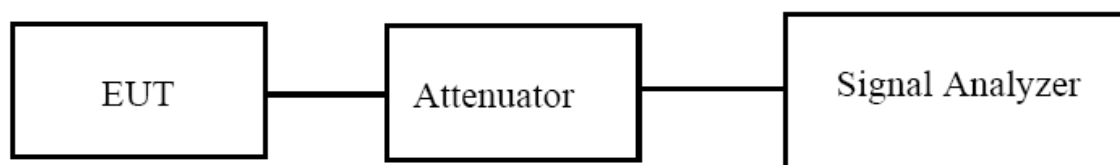






9. 26dB & 6dB & 99% Emission Bandwidth

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.

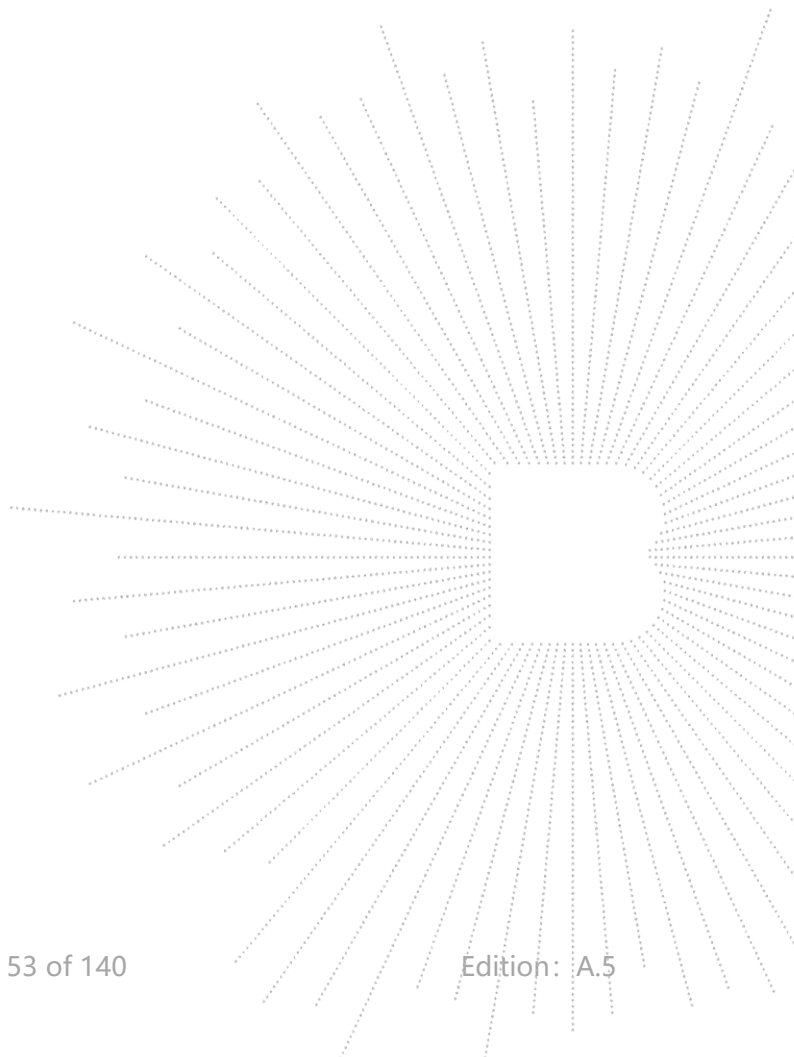
6dB

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

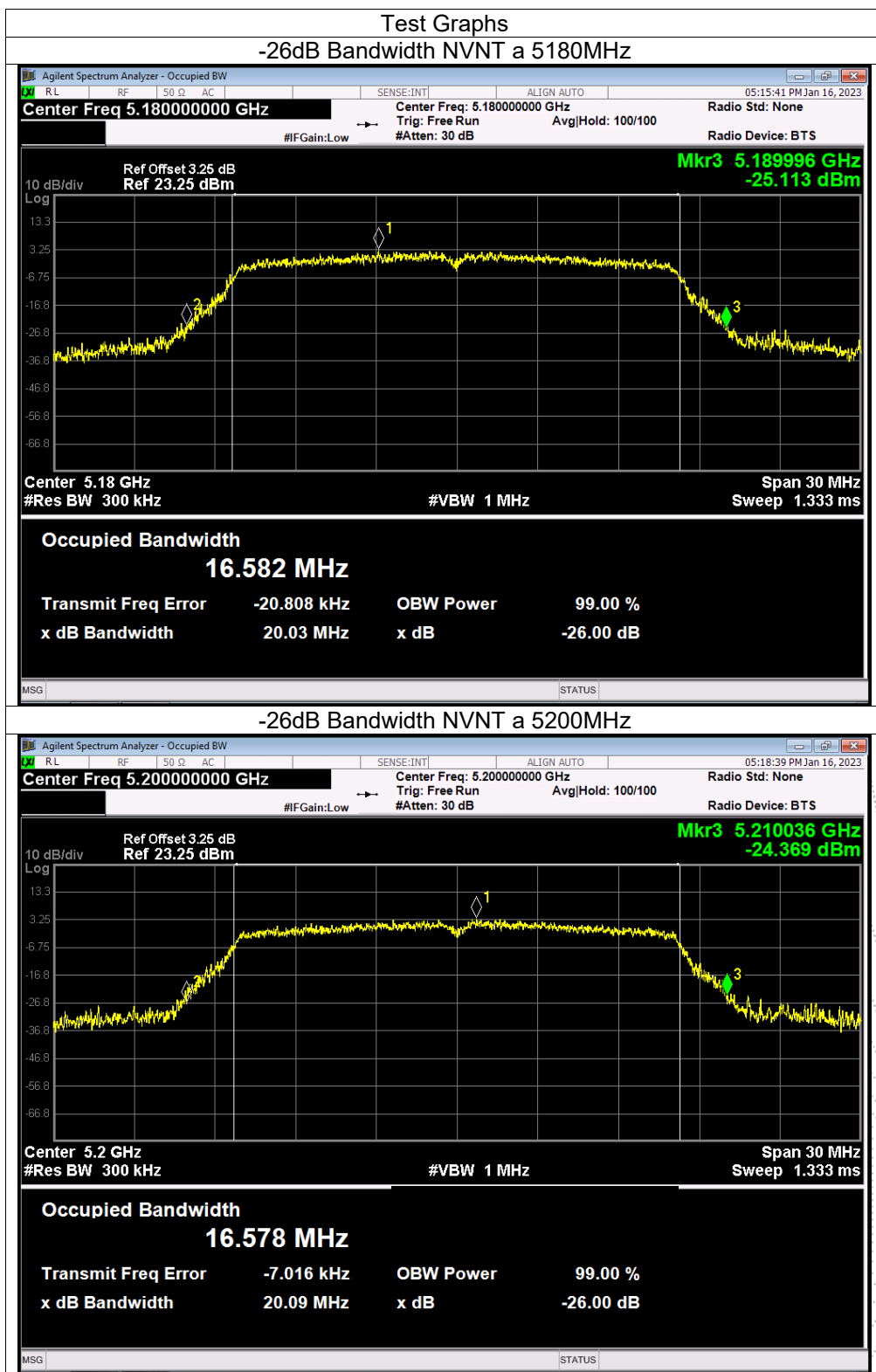
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

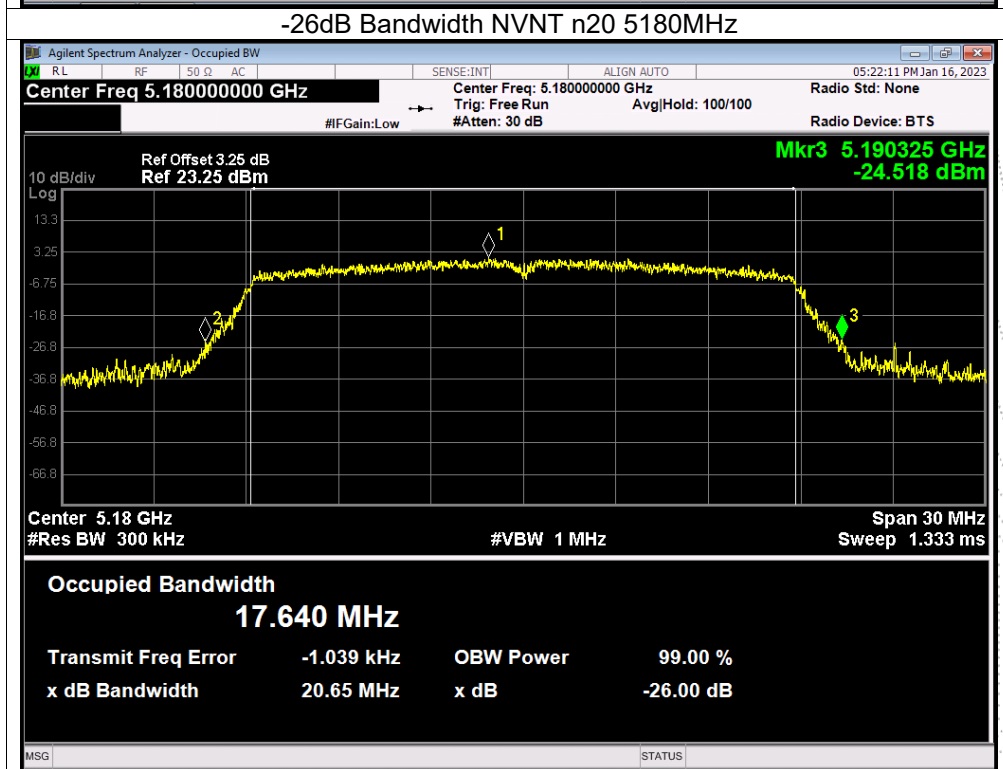
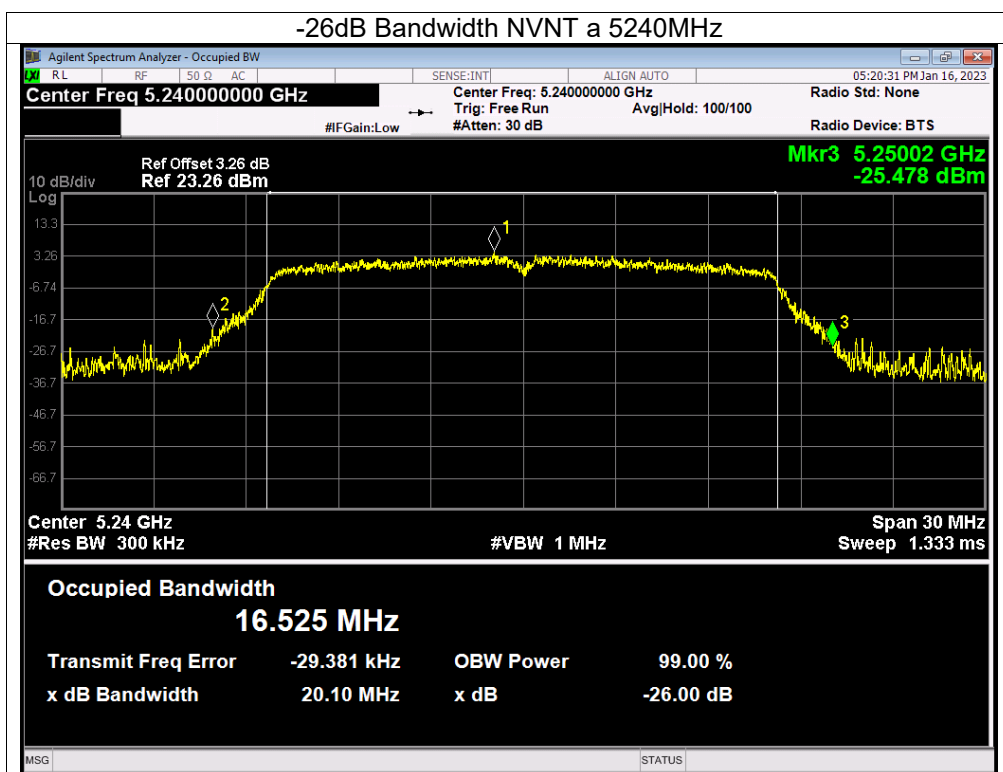


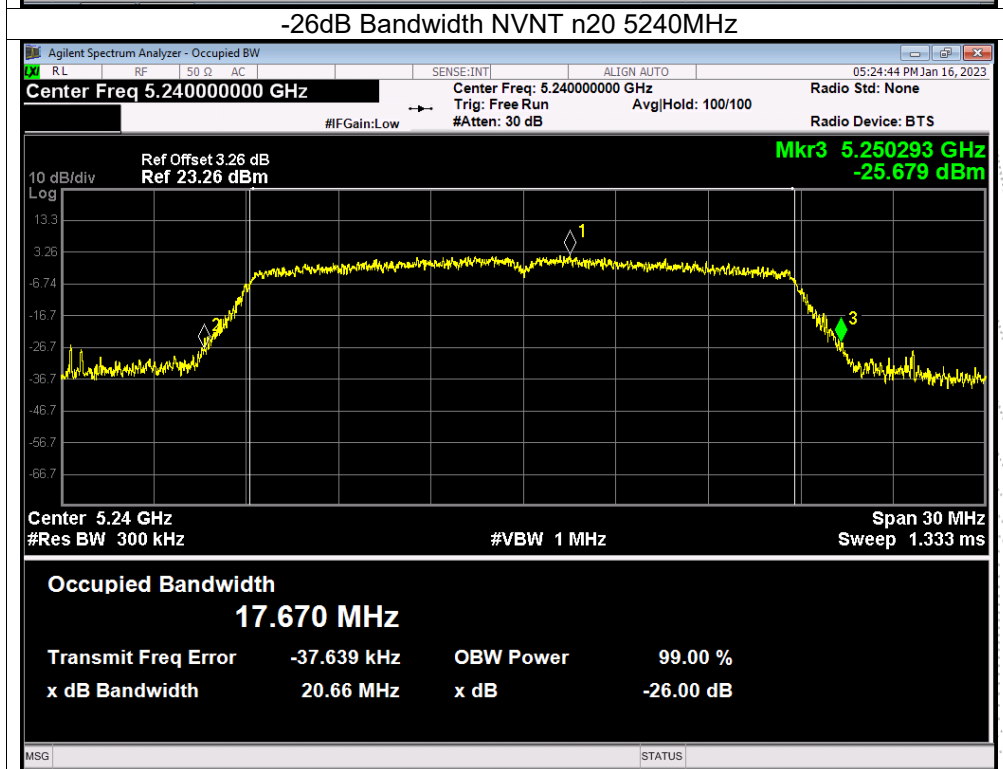
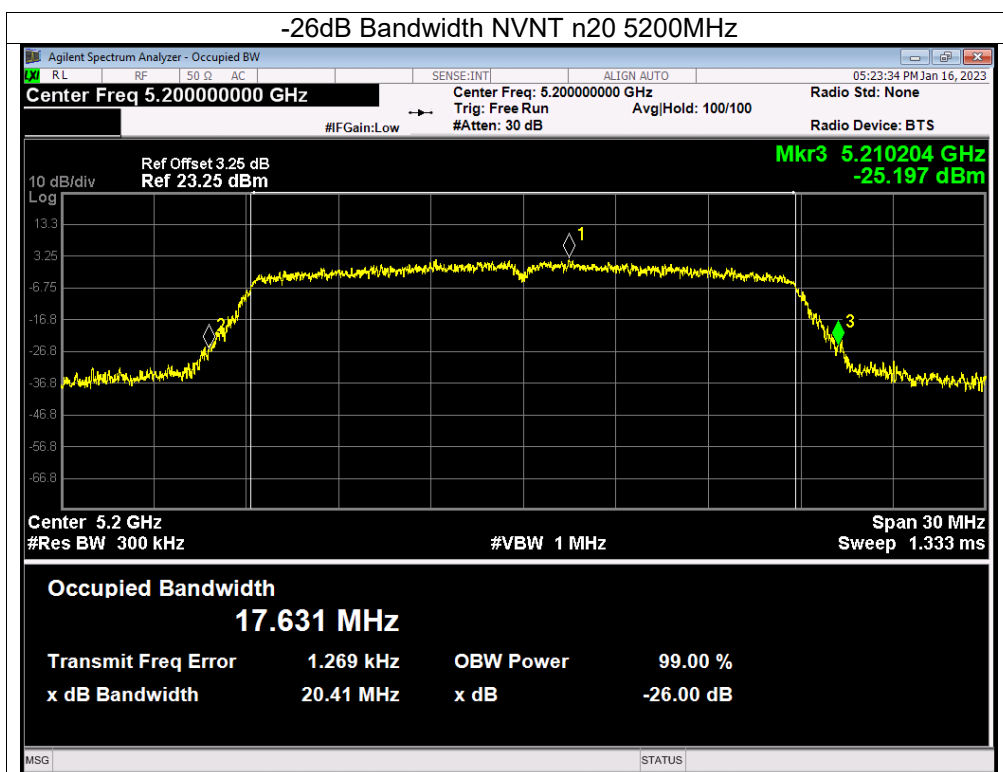
9.5 Test Result

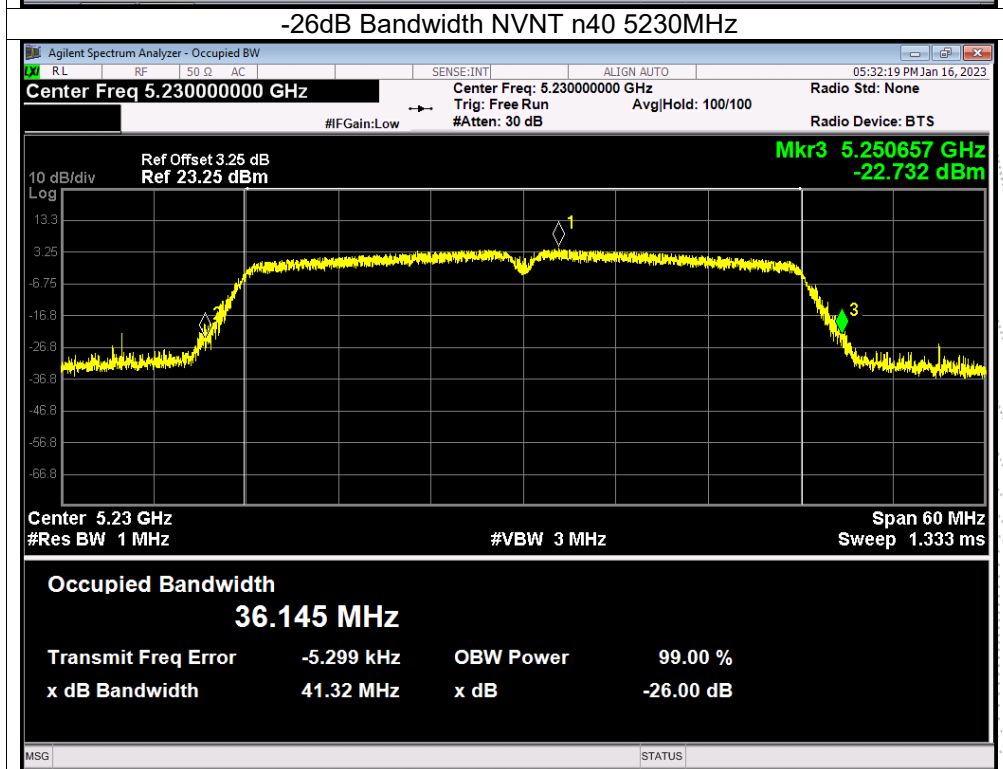
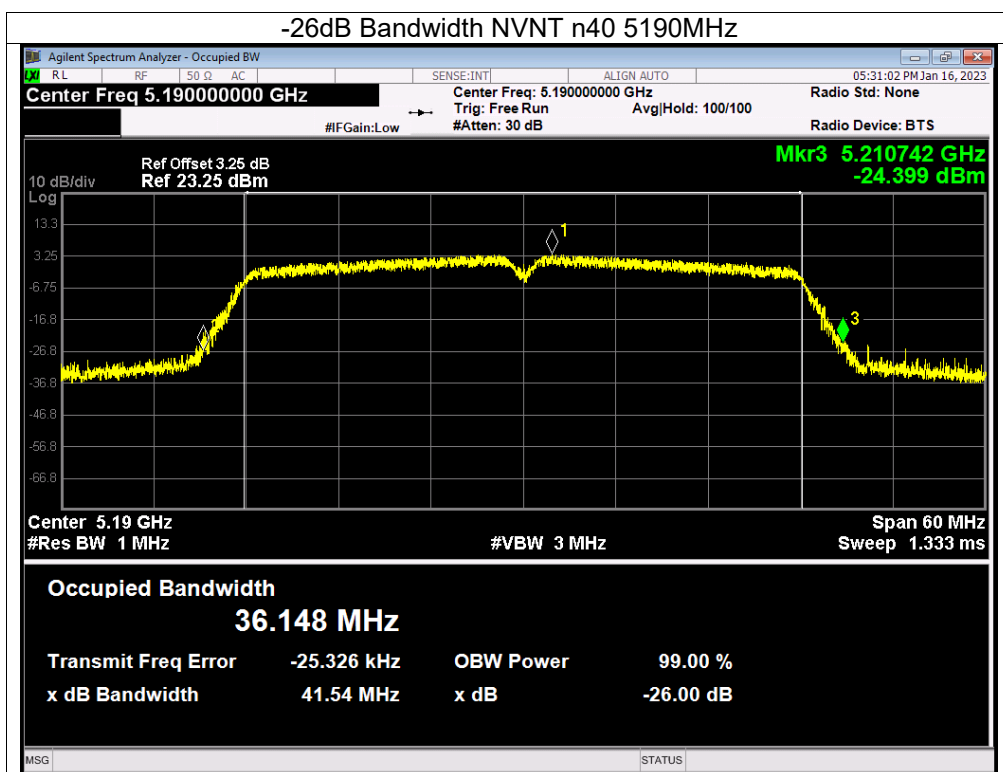
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

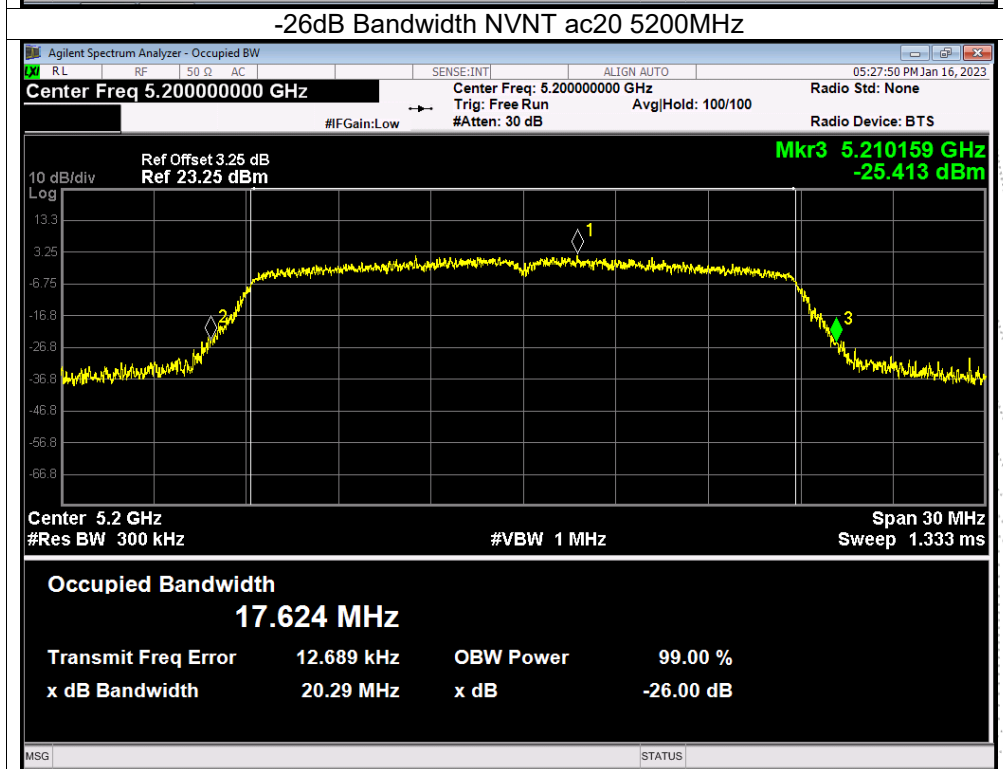
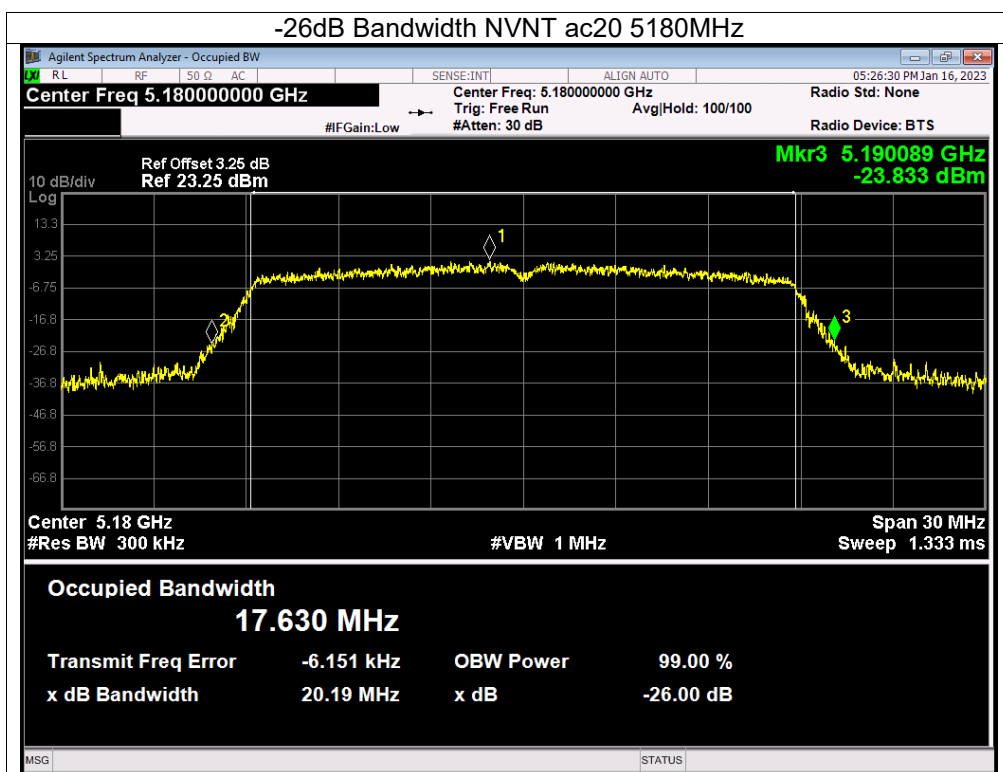
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.414	20.033	Pass
NVNT	a	5200	16.435	20.087	Pass
NVNT	a	5240	16.426	20.099	Pass
NVNT	n20	5180	17.545	20.652	Pass
NVNT	n20	5200	17.573	20.406	Pass
NVNT	n20	5240	17.582	20.662	Pass
NVNT	n40	5190	36.026	41.535	Pass
NVNT	n40	5230	35.965	41.324	Pass
NVNT	ac20	5180	17.558	20.191	Pass
NVNT	ac20	5200	17.544	20.293	Pass
NVNT	ac20	5240	17.554	20.379	Pass
NVNT	ac40	5190	35.965	41.293	Pass
NVNT	ac40	5230	35.974	41.485	Pass
NVNT	ac80	5210	75.204	81.362	Pass

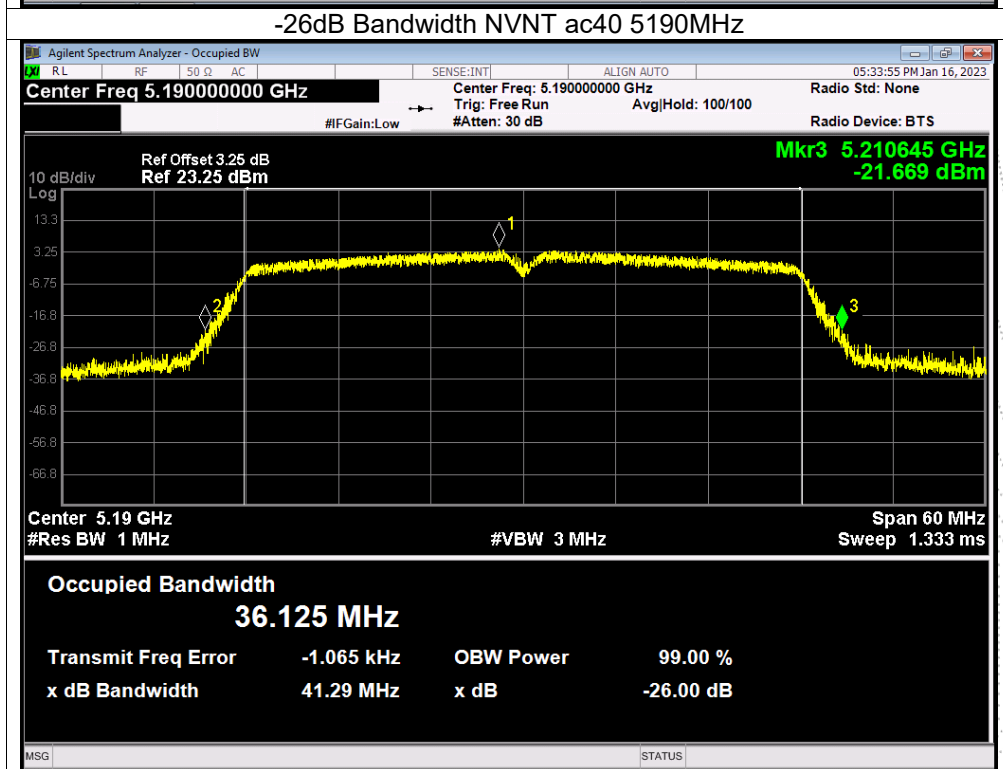
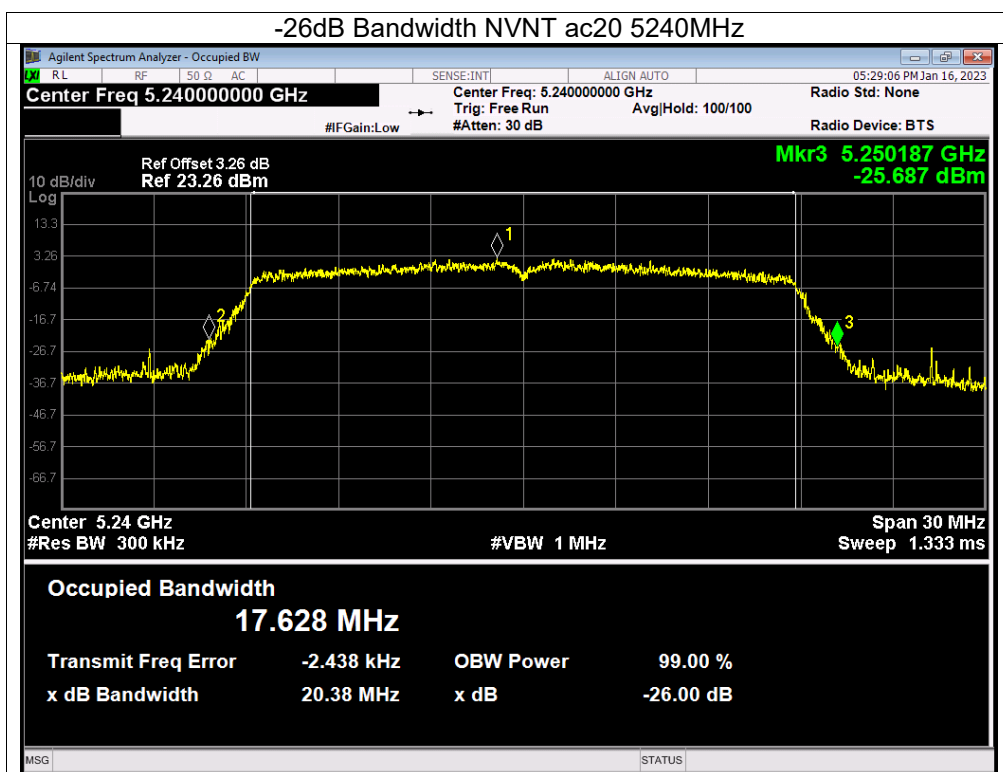


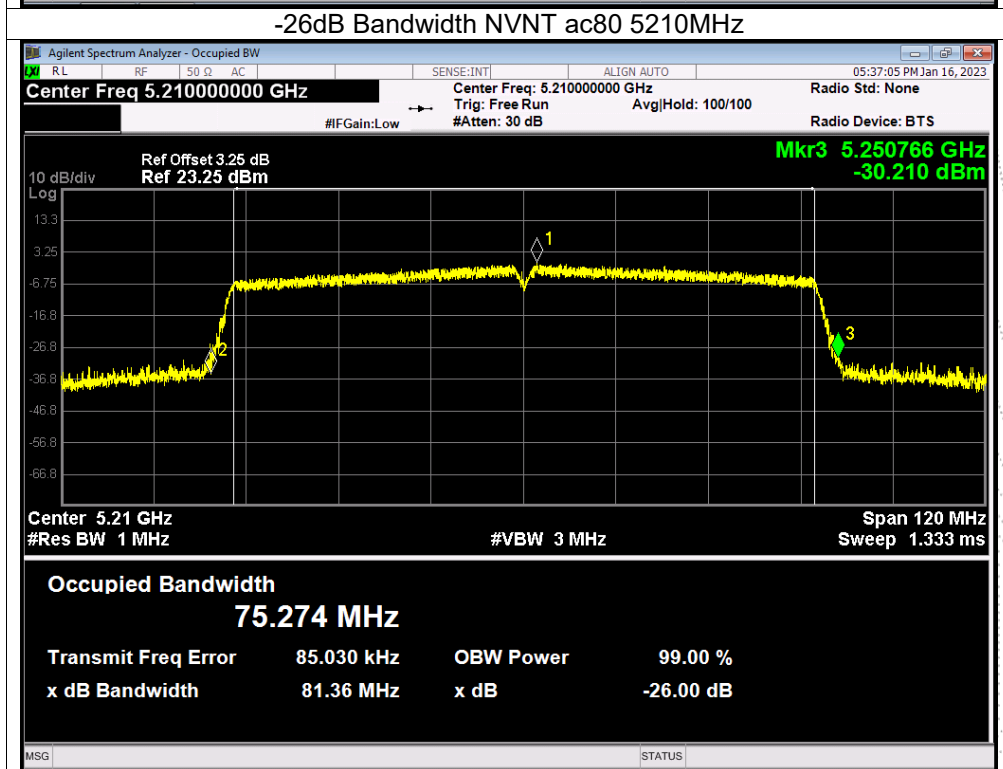
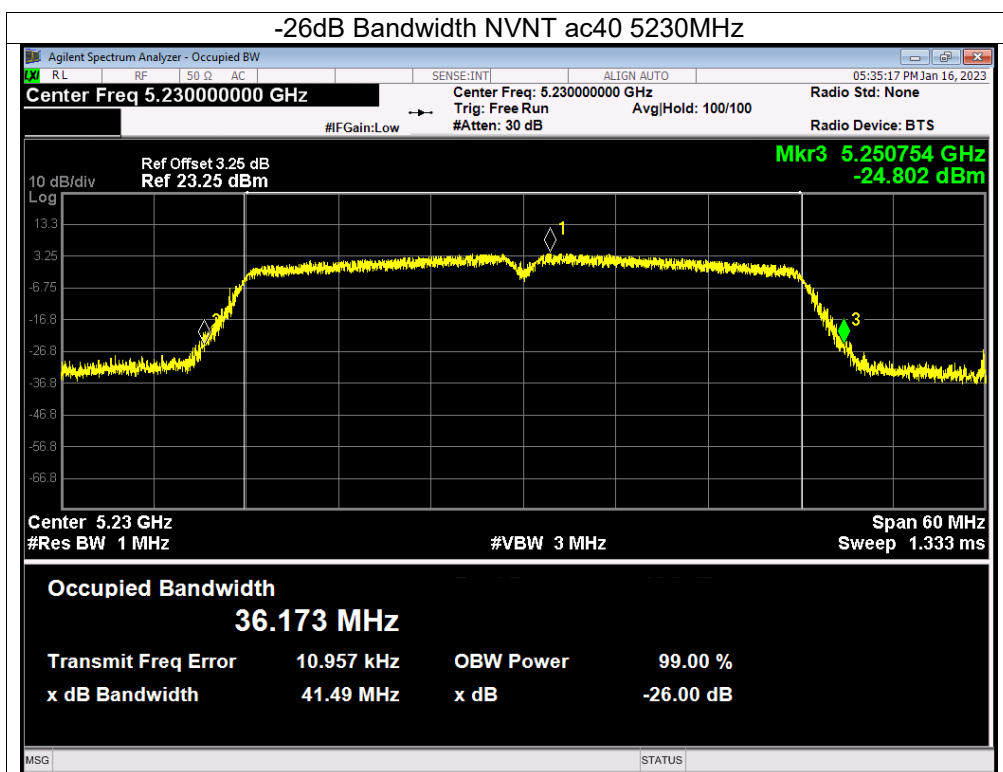


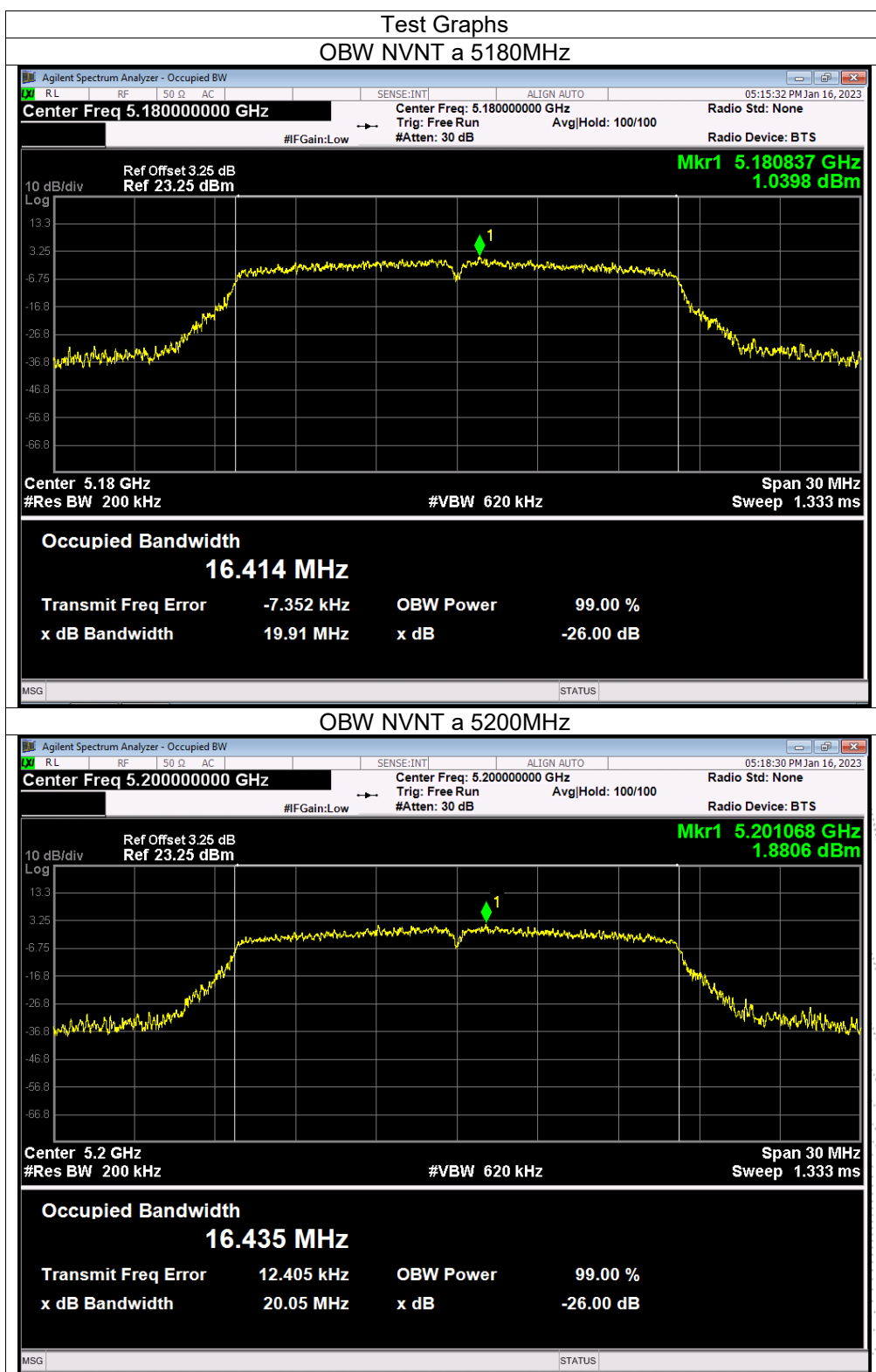


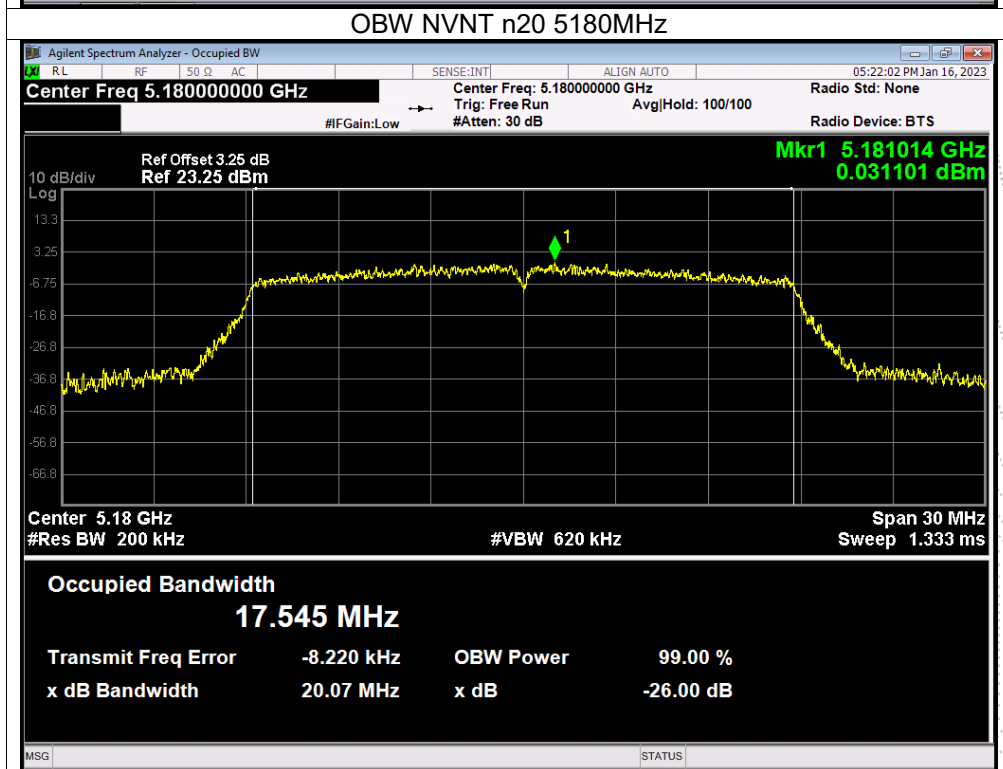
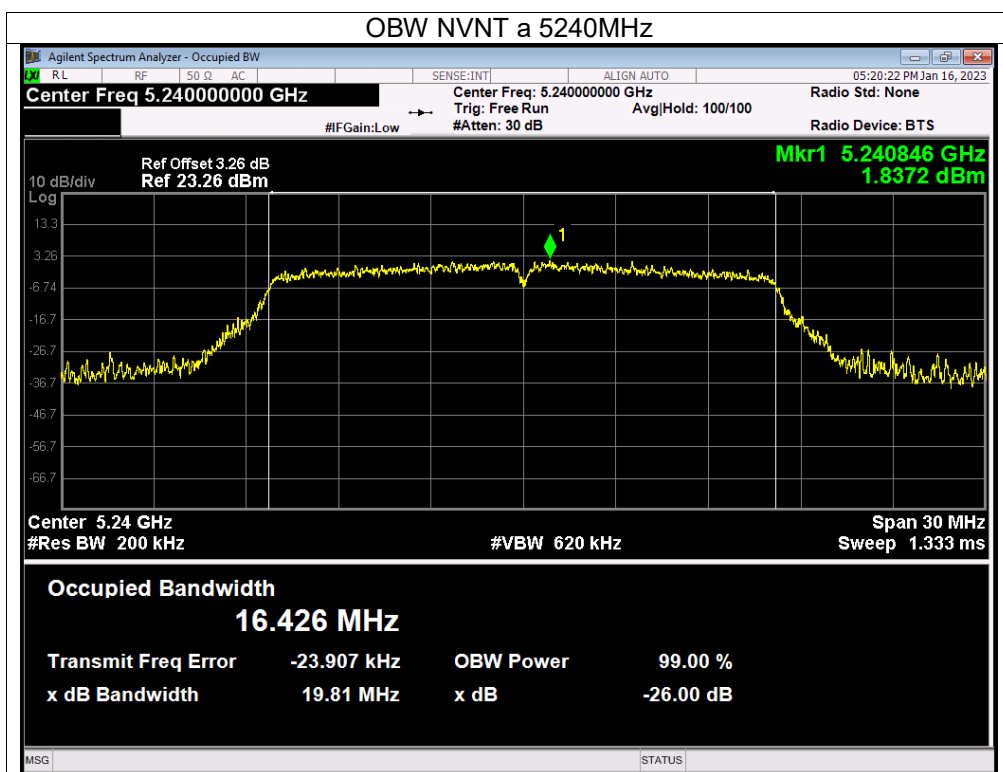


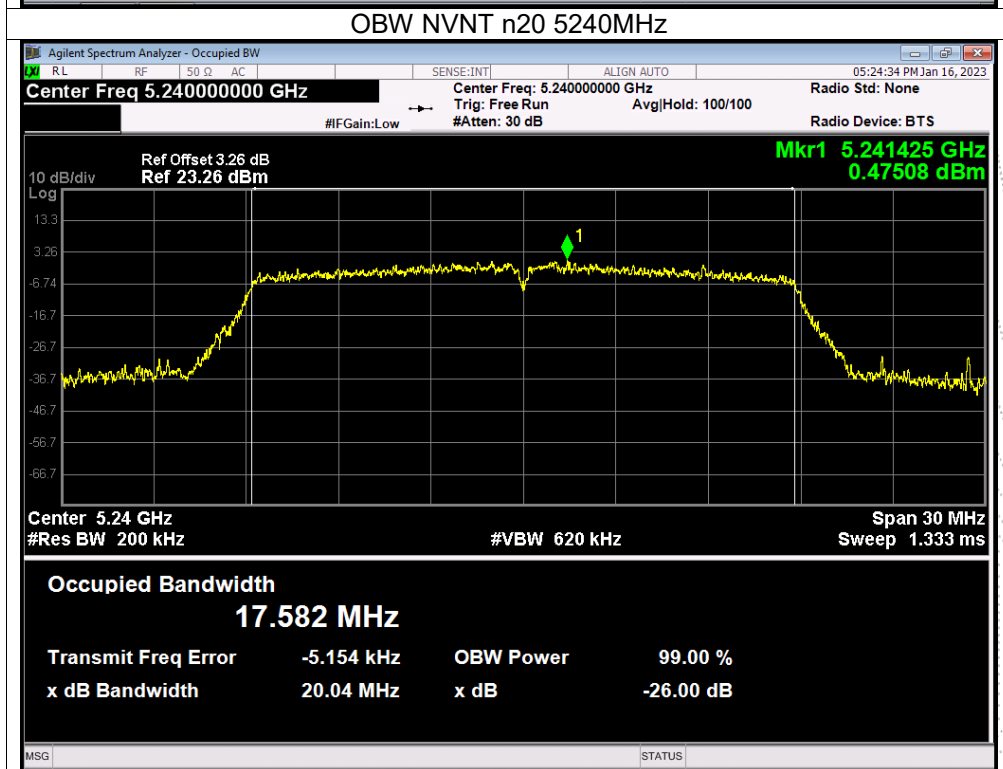
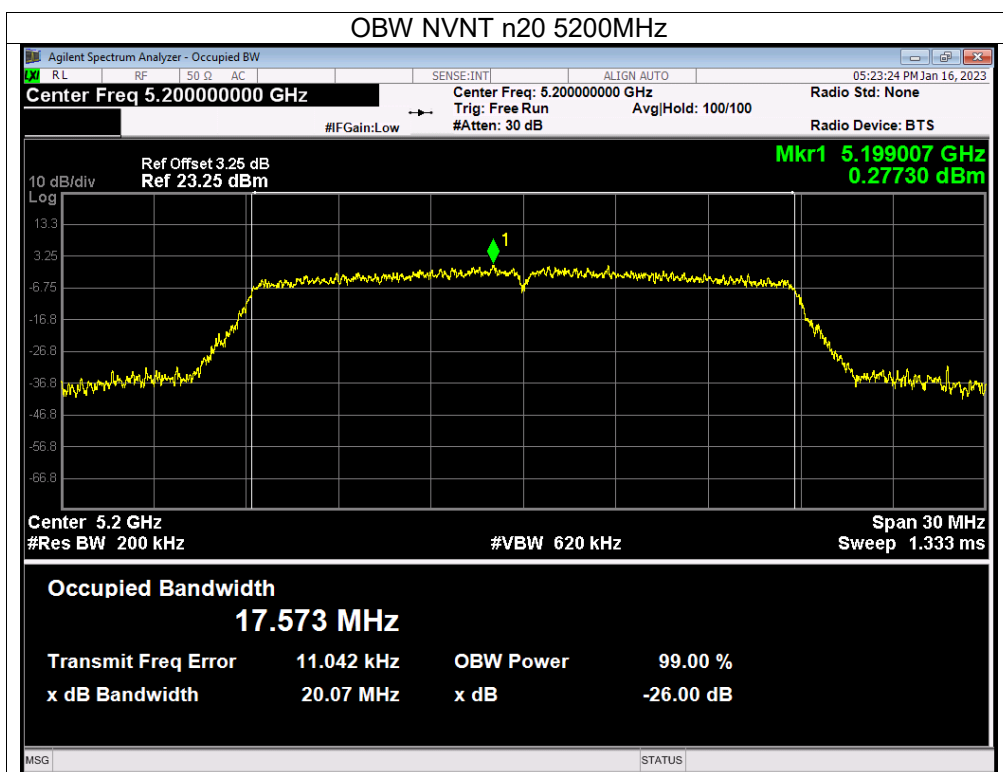


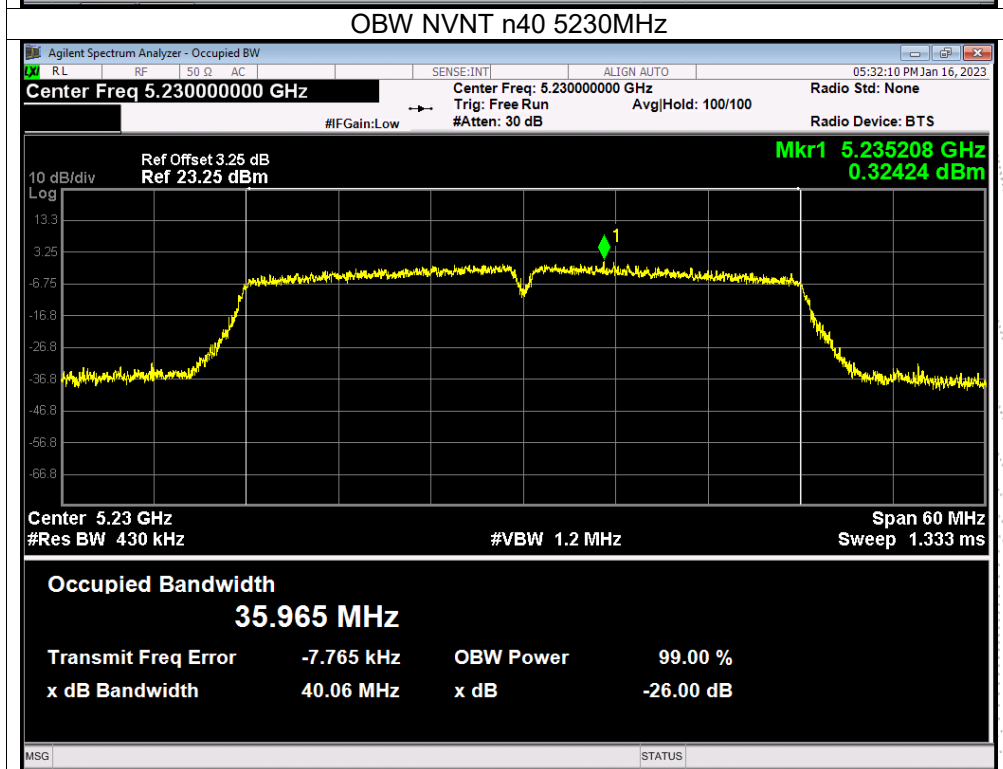
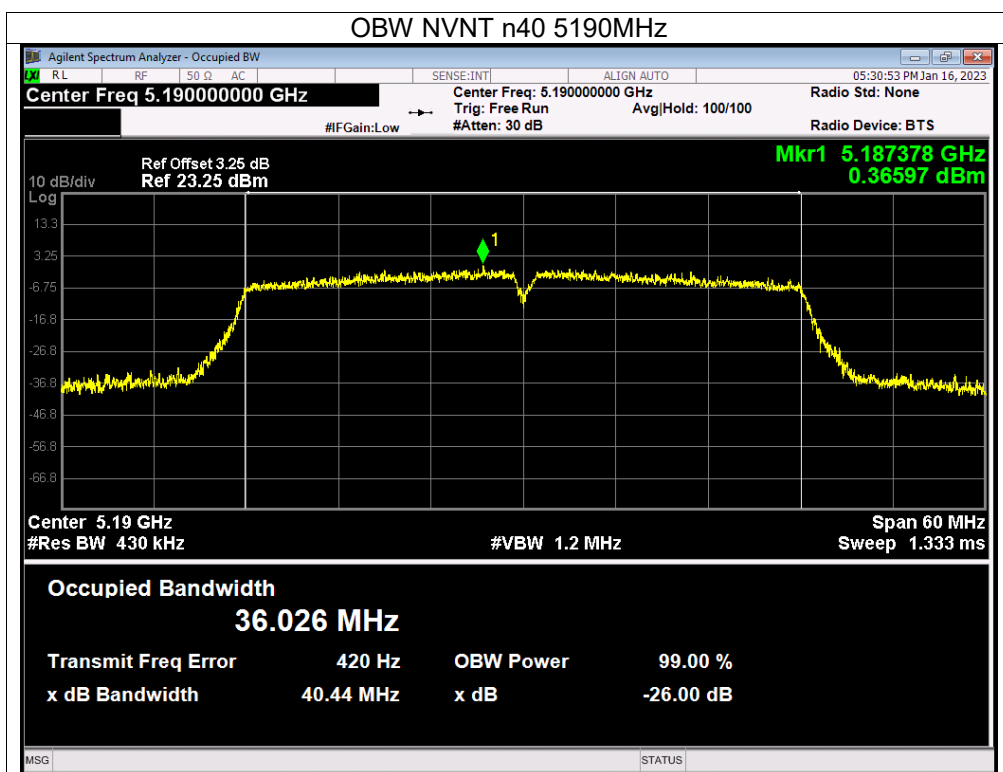


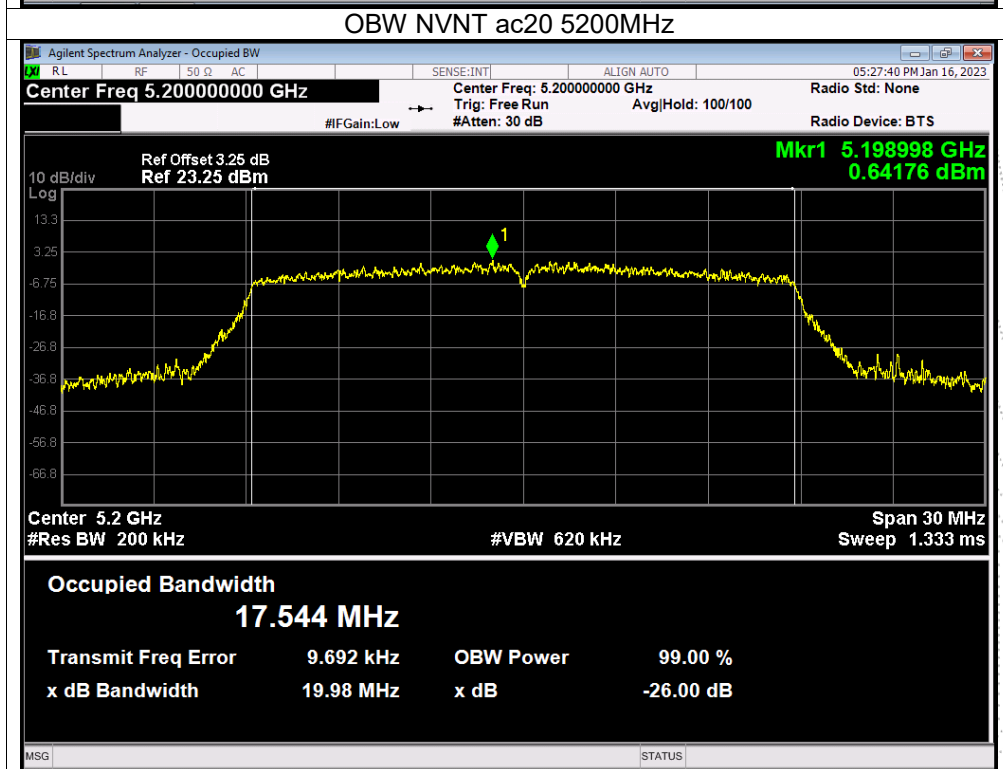
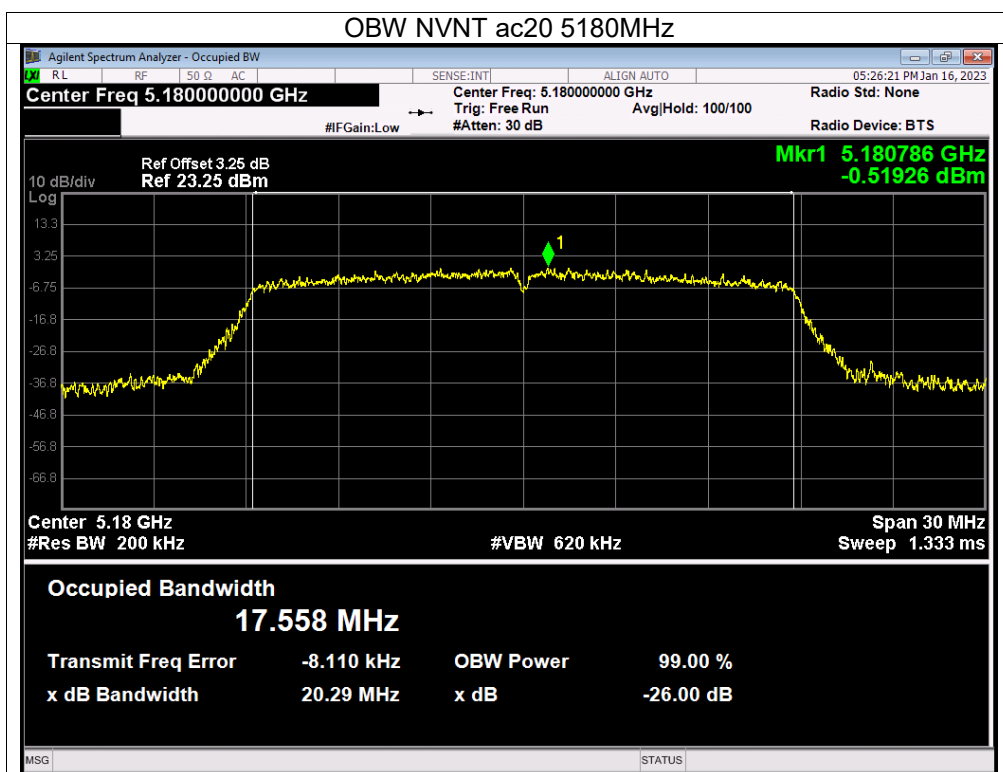


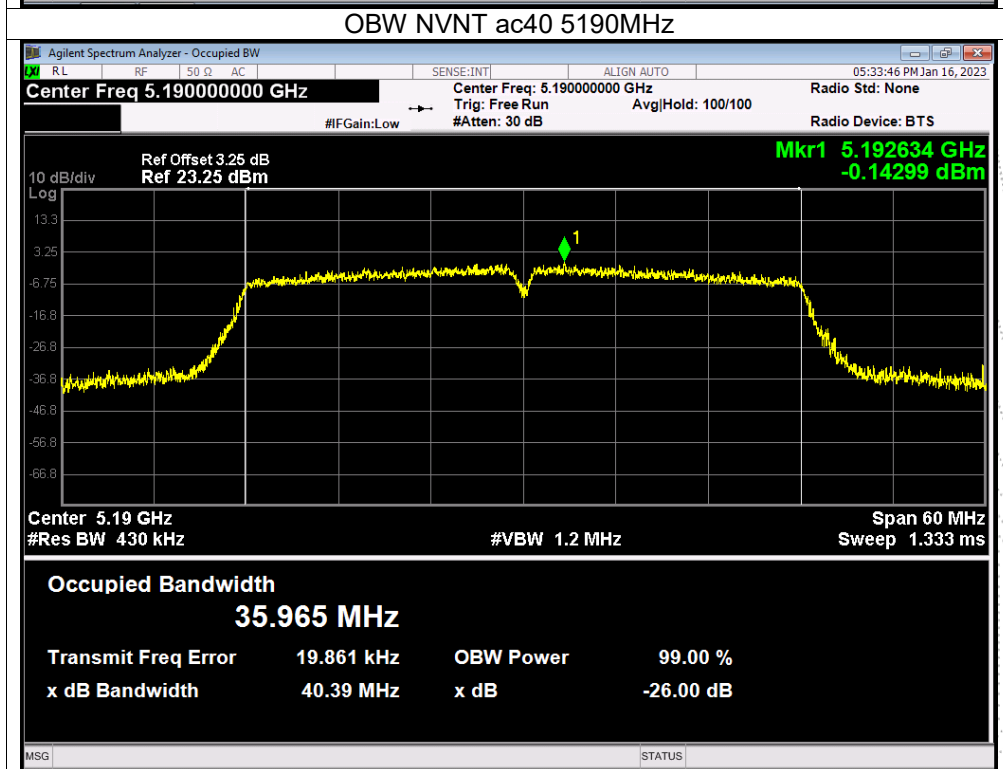
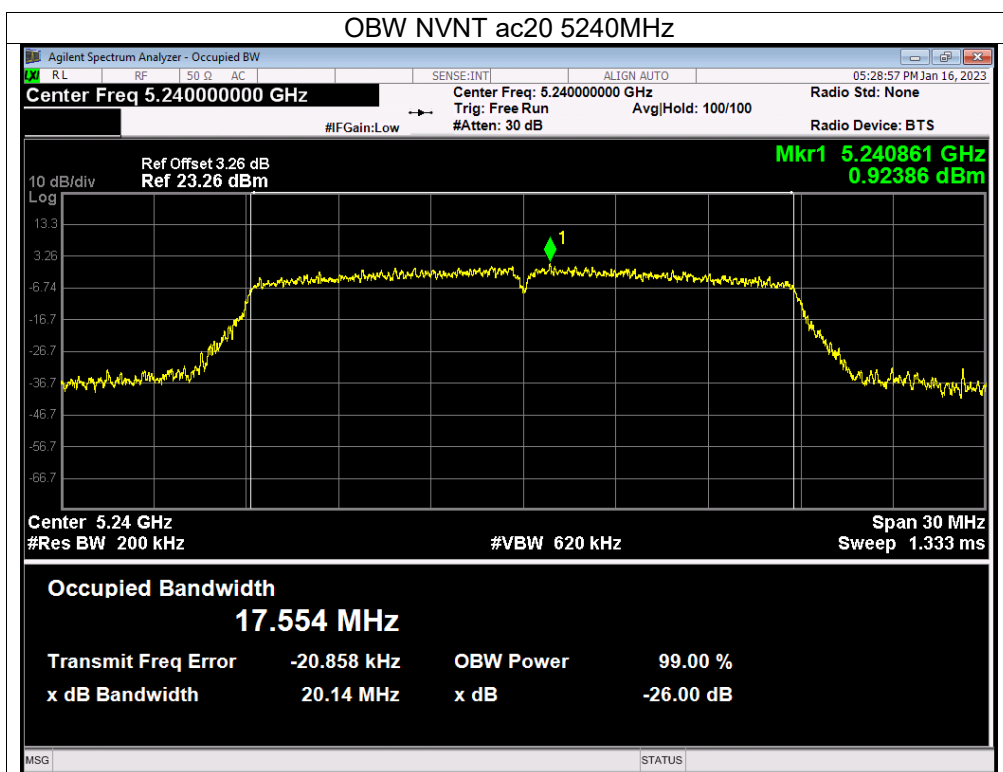


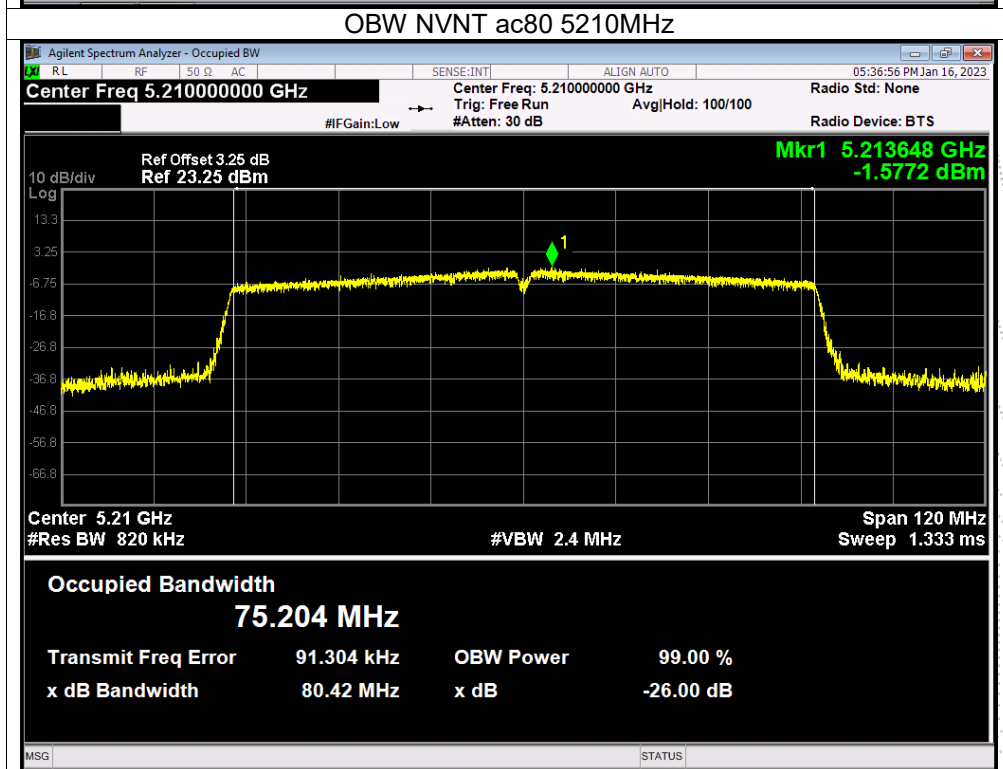
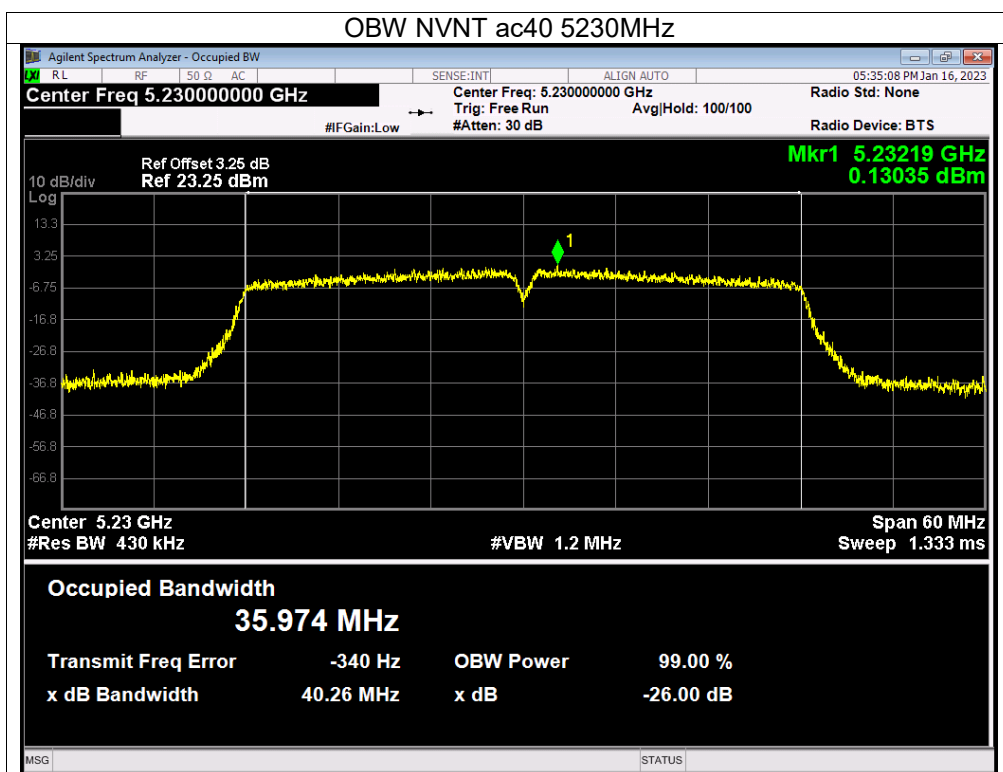












Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	TX Frequency U-NII-3(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth MHz	Result
NVNT	a	5745	16.454	16.364	≥500	Pass
NVNT	a	5785	16.413	16.313	≥500	Pass
NVNT	a	5825	16.451	16.331	≥500	Pass
NVNT	n20	5745	17.553	17.584	≥500	Pass
NVNT	n20	5785	17.536	17.561	≥500	Pass
NVNT	n20	5825	17.561	17.575	≥500	Pass
NVNT	n40	5755	35.878	35.65	≥500	Pass
NVNT	n40	5795	35.942	35.905	≥500	Pass
NVNT	ac20	5745	17.57	17.572	≥500	Pass
NVNT	ac20	5785	17.544	17.563	≥500	Pass
NVNT	ac20	5825	17.552	17.556	≥500	Pass
NVNT	ac40	5755	35.918	35.932	≥500	Pass
NVNT	ac40	5795	35.936	36.025	≥500	Pass
NVNT	ac80	5775	75.14	76.312	≥500	Pass