

TEST REPORT

Report No.: BCTC2310170971-4E

Applicant: Shenzhen Huikun Technology Co., Ltd.

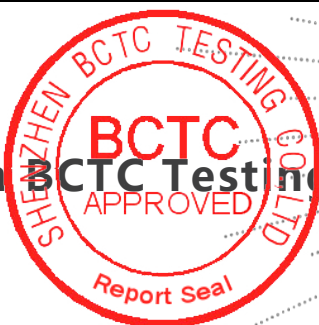
Product Name: Tablet PC

Model/Type
reference: P100

Tested Date: 2023-10-23 to 2023-11-09

Issued Date: 2023-11-10

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2A9MG-P100

Product Name: Tablet PC

Trademark: C idea

Model/Type reference: P100
P250, P350, P450, P550, P750, P850, P950

Prepared For: Shenzhen Huikun Technology Co., Ltd.

Address: Floor 3-4, Building 3, Saitu Digital Industrial Factory, 137 Bulan Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China

Manufacturer: Shenzhen Huikun Technology Co., Ltd.

Address: Floor 3-4, Building 3, Saitu Digital Industrial Factory, 137 Bulan Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2023-10-23

Sample tested Date: 2023-10-23 to 2023-11-09

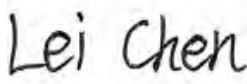
Issue Date: 2023-11-10

Report No.: BCTC2310170971-4E

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

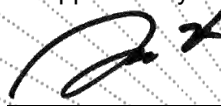
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

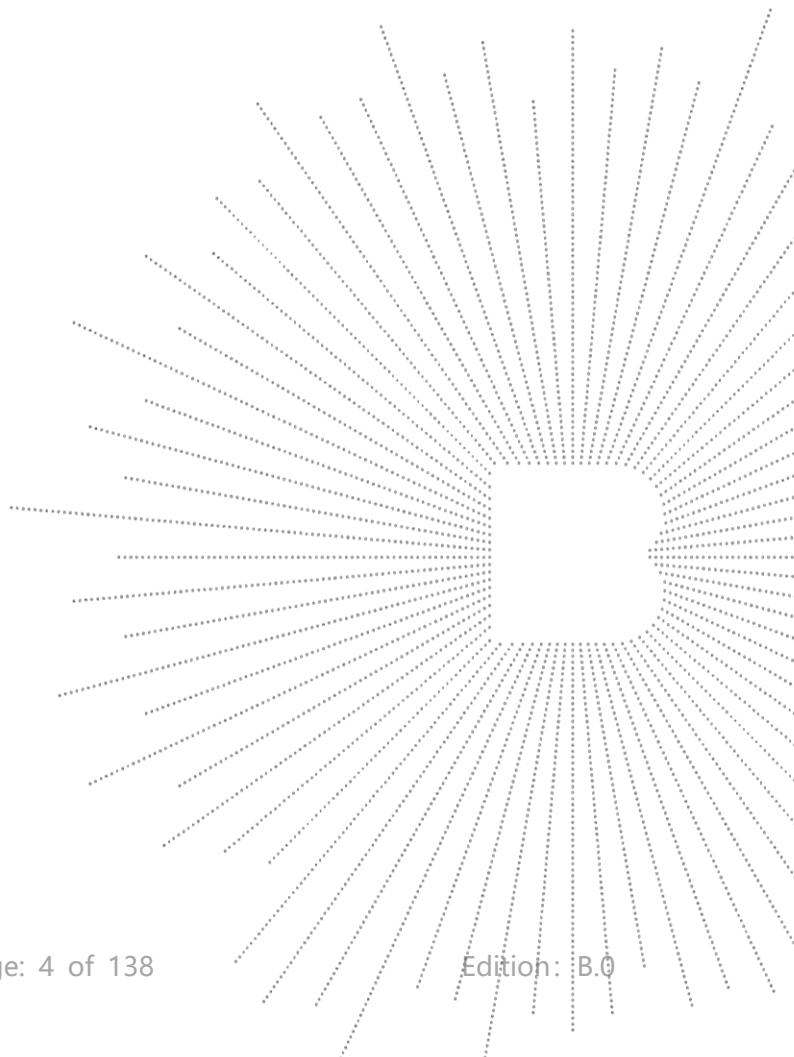
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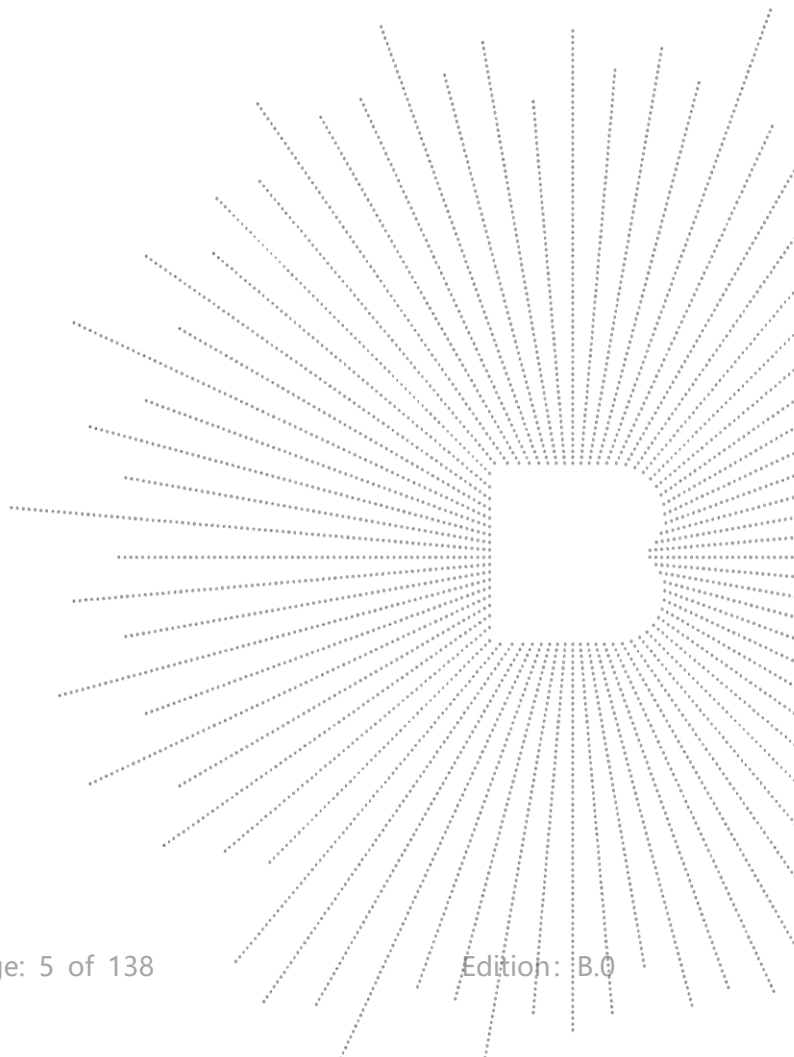
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2310170971-4E	2023-11-10	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

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

Note: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

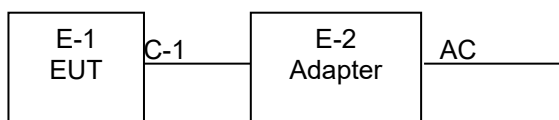
4.1 Product Information

Model/Type Ref.:	P100 P250, P350, P450, P550, P750, P850, P950
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 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:	FPC antenna
Antenna Gain:	5.1G: 1.73dBi 5.8G: 1.52dBi
Ratings:	DC 5V/9V from adapter, DC 3.85V from battery
Adapter:	Model: WKY058-PD20W-B Input: AC 100-240V 50/60Hz 1.5A Output: DC 5V 3A, 9V 2.22A, 12V 1.67A

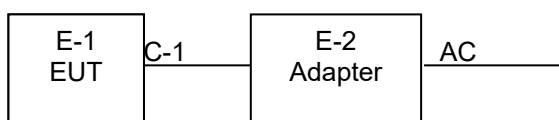
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Tablet PC	C idea	P100	More models Ref. the 4.1	EUT
E-2	Adapter	N/A	WKY058-PD20 W-B	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.5M	DC cable unshielded

Notes:

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

4.4 Channel List

5.1G

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

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

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

5.8G

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

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

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

4.5 Test Mode

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

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

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

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

Note:

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

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

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

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

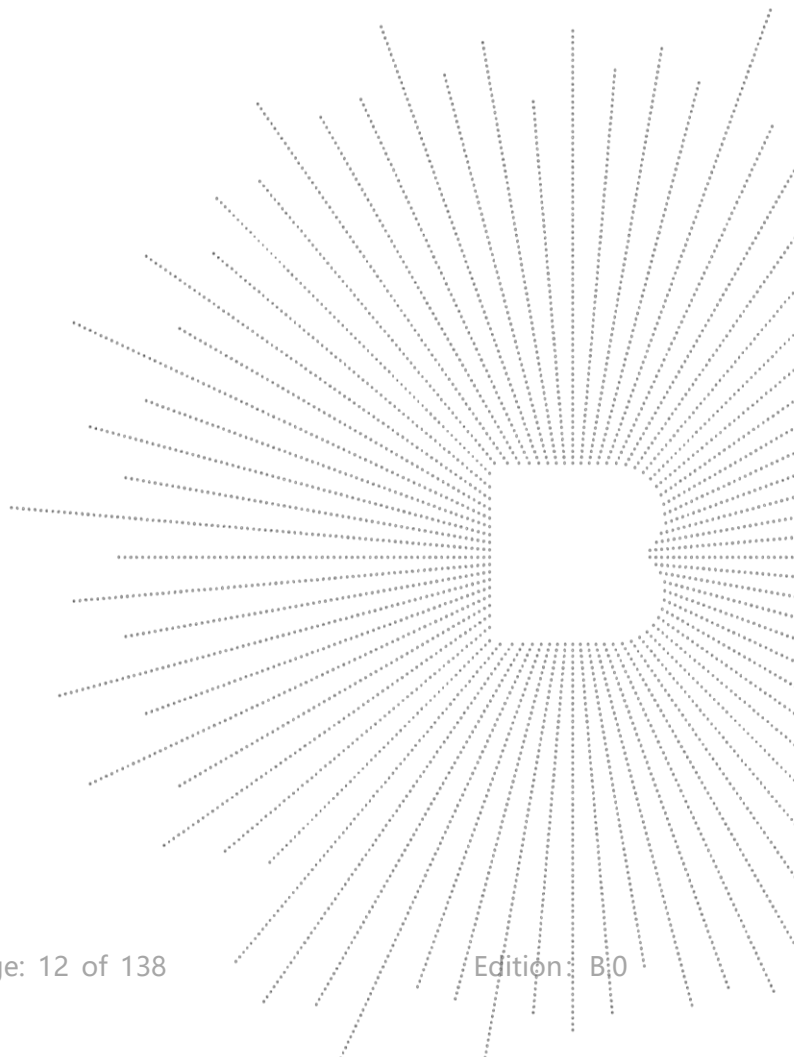
ISED CAB identifier: CN0017

5.2 Test Instrument Used

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

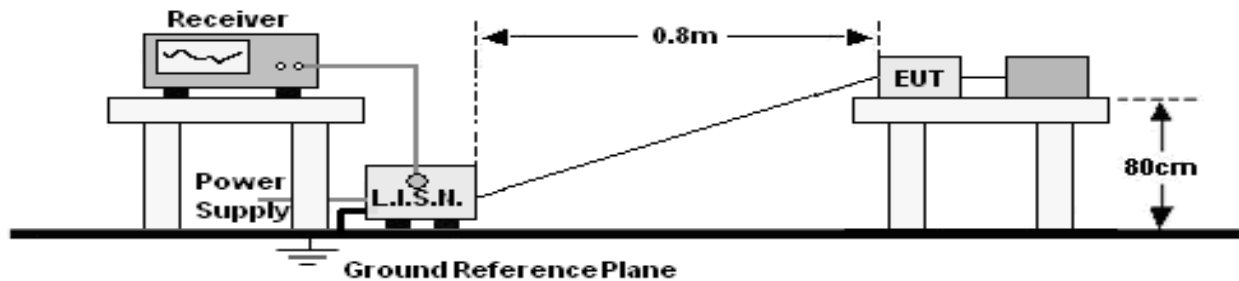
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz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

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- *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

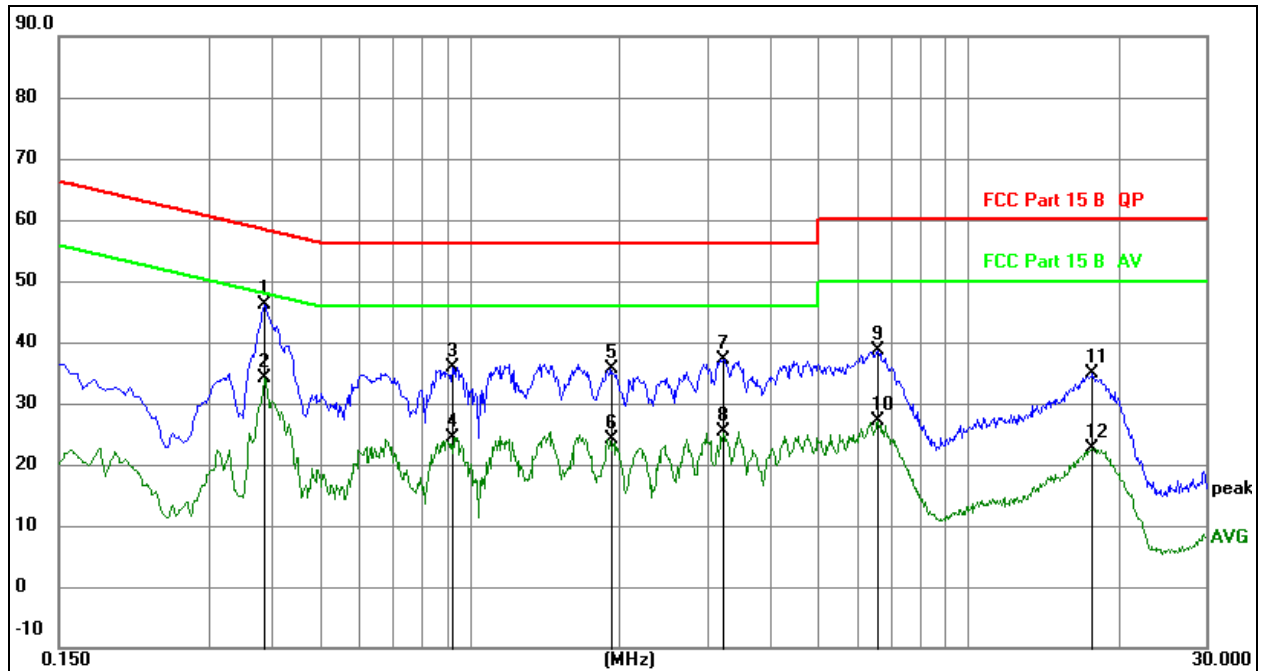
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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 4	Test Voltage :	AC120V/60Hz

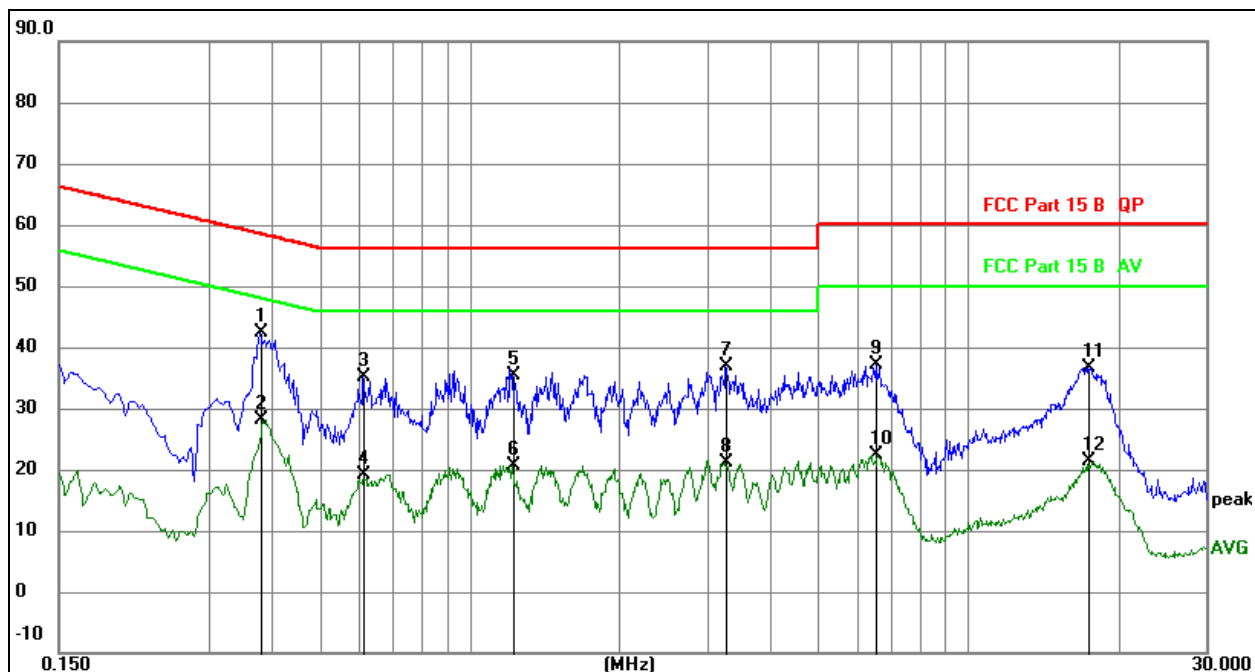


Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.3871	26.23	19.84	46.07	58.13	-12.06	QP
2		0.3871	14.33	19.84	34.17	48.13	-13.96	AVG
3		0.9233	15.87	19.92	35.79	56.00	-20.21	QP
4		0.9233	4.40	19.92	24.32	46.00	-21.68	AVG
5		1.9182	15.74	19.95	35.69	56.00	-20.31	QP
6		1.9182	4.17	19.95	24.12	46.00	-21.88	AVG
7		3.2239	16.80	20.38	37.18	56.00	-18.82	QP
8		3.2239	4.90	20.38	25.28	46.00	-20.72	AVG
9		6.5921	18.65	20.06	38.71	60.00	-21.29	QP
10		6.5921	7.14	20.06	27.20	50.00	-22.80	AVG
11		17.7549	14.97	19.94	34.91	60.00	-25.09	QP
12		17.7549	2.72	19.94	22.66	50.00	-27.34	AVG

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



Remark:

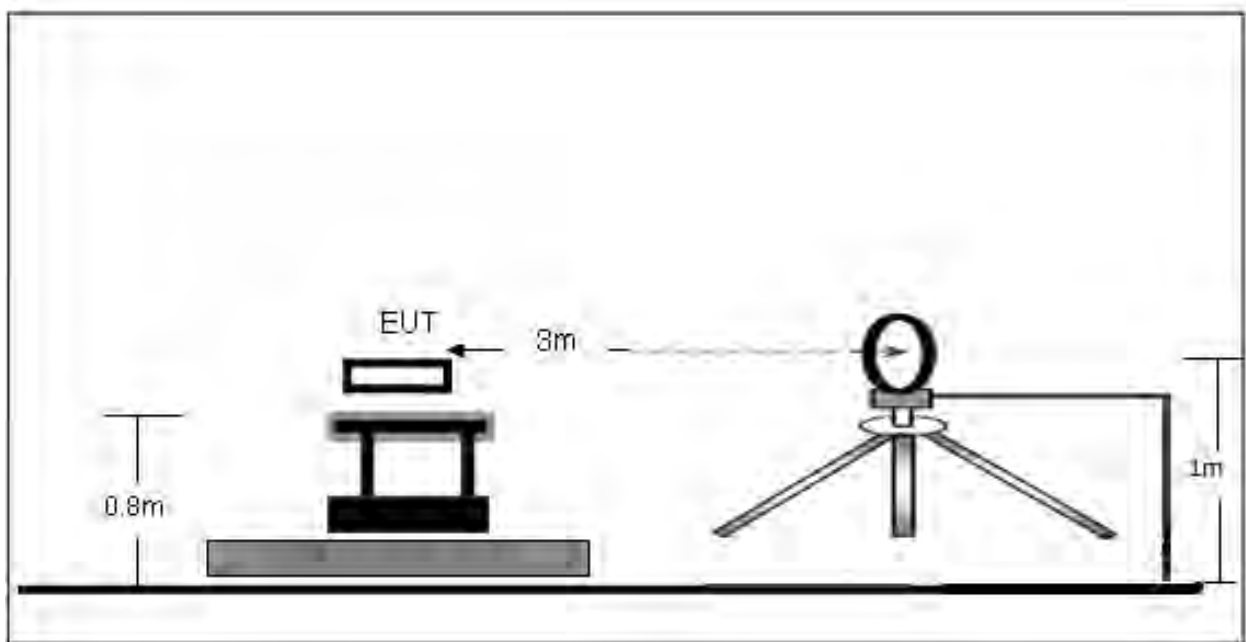
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.3795	22.60	19.84	42.44	58.29	-15.85	QP
2		0.3795	8.38	19.84	28.22	48.29	-20.07	AVG
3		0.6134	15.19	19.84	35.03	56.00	-20.97	QP
4		0.6134	-0.74	19.84	19.10	46.00	-26.90	AVG
5		1.2164	15.48	19.95	35.43	56.00	-20.57	QP
6		1.2164	0.76	19.95	20.71	46.00	-25.29	AVG
7		3.2640	16.39	20.40	36.79	56.00	-19.21	QP
8		3.2640	0.73	20.40	21.13	46.00	-24.87	AVG
9		6.5265	17.01	20.07	37.08	60.00	-22.92	QP
10		6.5265	2.36	20.07	22.43	50.00	-27.57	AVG
11		17.3940	16.68	19.93	36.61	60.00	-23.39	QP
12		17.3940	1.38	19.93	21.31	50.00	-28.69	AVG

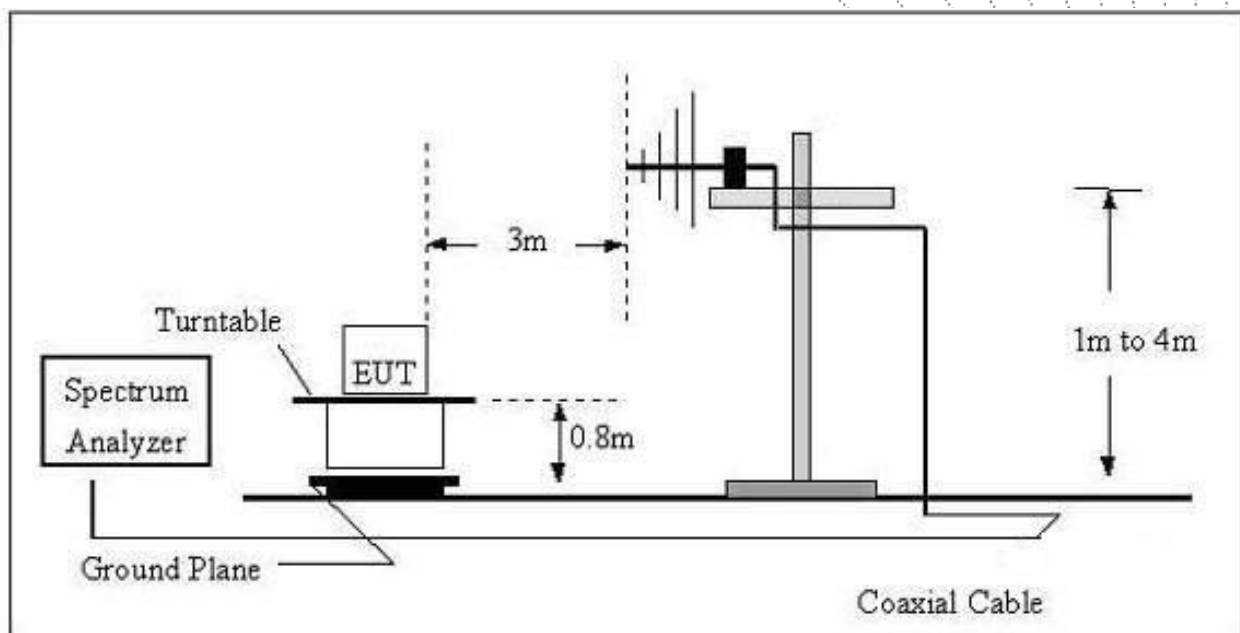
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

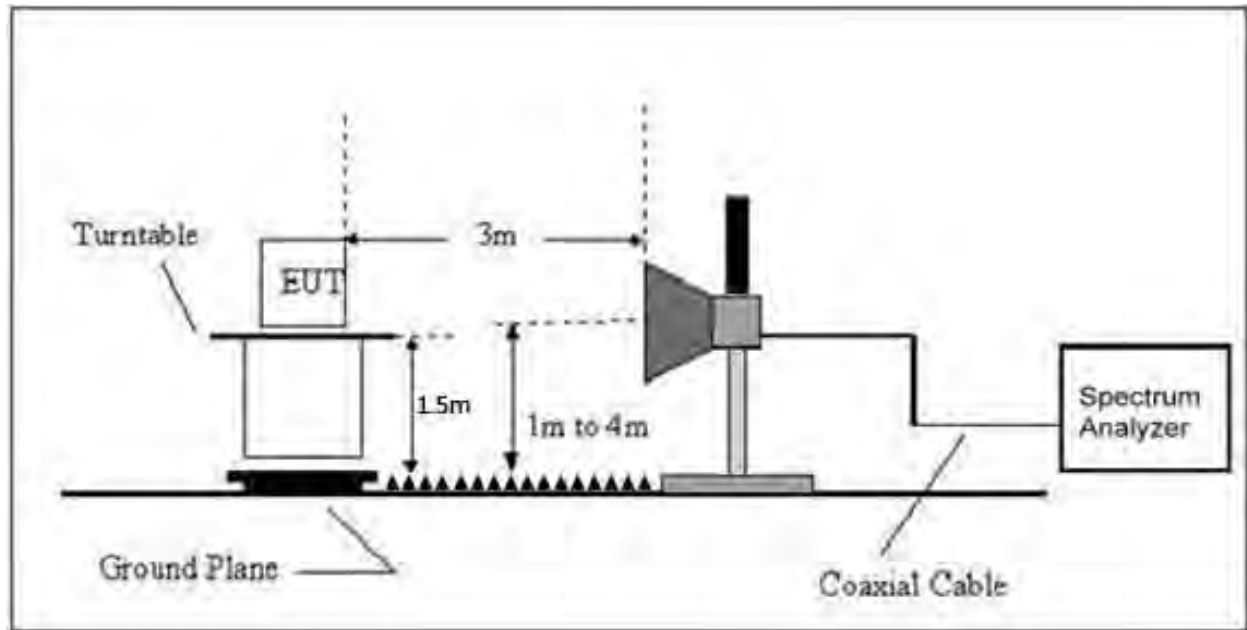
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

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

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

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

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

Note:

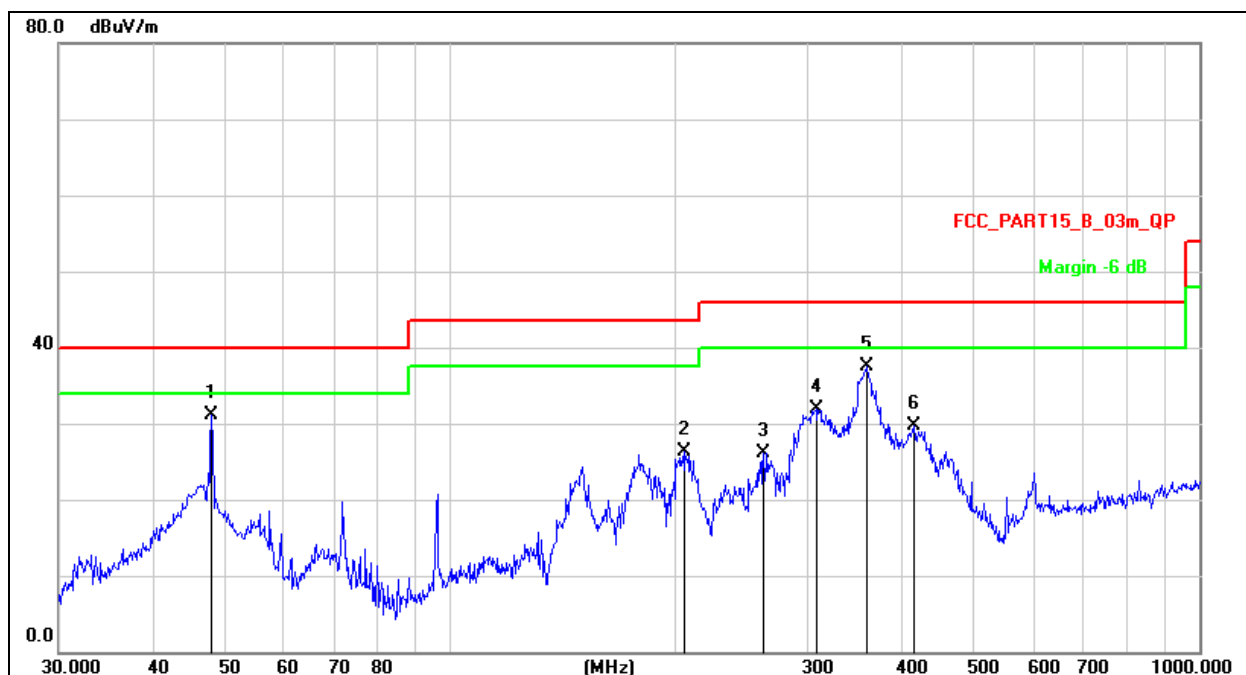
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

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

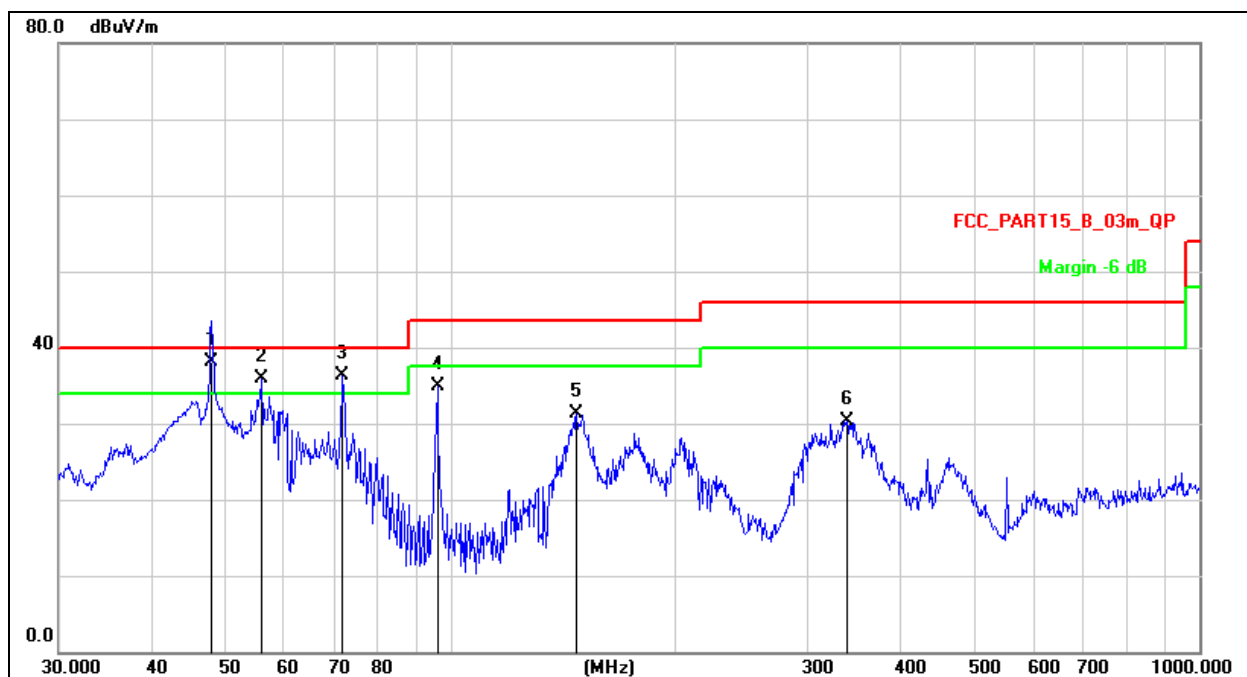


Remark:

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	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9940	45.25	-14.06	31.19	40.00	-8.81	QP
2		205.6751	41.94	-15.56	26.38	43.50	-17.12	QP
3		261.9753	40.17	-14.04	26.13	46.00	-19.87	QP
4		307.8313	44.78	-12.96	31.82	46.00	-14.18	QP
5	*	360.4476	48.84	-11.35	37.49	46.00	-8.51	QP
6		416.1791	40.13	-10.52	29.61	46.00	-16.39	QP

Temperature:	26 °C	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	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	47.8940	52.17	-14.07	38.10	40.00	-1.90	QP
2	!	56.0007	50.60	-14.71	35.89	40.00	-4.11	QP
3	!	71.8319	54.60	-18.32	36.28	40.00	-3.72	QP
4		96.0986	51.42	-16.50	34.92	43.50	-8.58	QP
5		147.4036	50.57	-19.25	31.32	43.50	-12.18	QP
6		338.4001	42.27	-11.89	30.38	46.00	-15.62	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.034	70.66	-20.73	49.92	68.2	-18.28	PK
Vertical	4434.034	59.29	-20.73	38.56	54	-15.44	AV
Vertical	10360.177	62.11	-9.36	52.75	68.2	-15.45	PK
Vertical	10360.177	49.61	-9.36	40.25	54	-13.75	AV
Vertical	15540.132	62.21	-7.84	54.37	74	-19.63	PK
Vertical	15540.132	49.95	-7.84	42.11	54	-11.89	AV
Horizontal	4434.110	70.23	-20.73	49.50	68.2	-18.70	PK
Horizontal	4434.110	59.18	-20.73	38.45	54	-15.55	AV
Horizontal	10360.191	64.44	-9.36	55.08	68.2	-13.12	PK
Horizontal	10360.191	49.90	-9.36	40.54	54	-13.46	AV
Horizontal	15540.080	61.60	-7.84	53.76	74	-20.24	PK
Horizontal	15540.080	49.76	-7.84	41.92	54	-12.08	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.087	73.53	-20.42	53.11	74	-20.89	PK
Vertical	4592.087	59.57	-20.42	39.15	54	-14.85	AV
Vertical	10400.099	64.05	-9.30	54.75	68.2	-13.45	PK
Vertical	10400.099	49.16	-9.30	39.86	54	-14.14	AV
Vertical	15600.119	61.54	-7.82	53.72	74	-20.28	PK
Vertical	15600.119	49.22	-7.82	41.40	54	-12.60	AV
Horizontal	4592.124	73.09	-20.42	52.67	74	-21.33	PK
Horizontal	4592.124	59.63	-20.42	39.22	54	-14.78	AV
Horizontal	10400.146	61.18	-9.30	51.88	68.2	-16.32	PK
Horizontal	10400.146	49.33	-9.30	40.03	54	-13.97	AV
Horizontal	15600.145	64.34	-7.82	56.52	74	-17.48	PK
Horizontal	15600.145	49.32	-7.82	41.50	54	-12.50	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.191	71.92	-20.12	51.80	74	-22.20	PK
Vertical	4739.191	59.49	-20.12	39.37	54	-14.63	AV
Vertical	10480.108	60.63	-9.18	51.45	68.2	-16.75	PK
Vertical	10480.108	49.68	-9.18	40.50	54	-13.50	AV
Vertical	15720.054	60.15	-7.78	52.37	74	-21.63	PK
Vertical	15720.054	49.51	-7.78	41.73	54	-12.27	AV
Horizontal	4739.123	73.82	-20.12	53.70	74	-20.30	PK
Horizontal	4739.123	59.51	-20.12	39.39	54	-14.61	AV
Horizontal	10480.191	60.55	-9.18	51.37	68.2	-16.83	PK
Horizontal	10480.191	49.17	-9.18	39.99	54	-14.01	AV
Horizontal	15720.003	61.97	-7.78	54.19	74	-19.81	PK
Horizontal	15720.003	49.98	-7.78	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) -802.11n-HT20
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.137	70.44	-20.73	49.71	68.2	-18.49	PK
Vertical	4434.137	59.22	-20.73	38.49	54	-15.51	AV
Vertical	10360.194	62.93	-9.36	53.57	68.2	-14.63	PK
Vertical	10360.194	49.34	-9.36	39.98	54	-14.02	AV
Vertical	15540.035	63.31	-7.84	55.47	74	-18.53	PK
Vertical	15540.035	49.75	-7.84	41.91	54	-12.09	AV
Horizontal	4434.156	72.07	-20.73	51.34	68.2	-16.86	PK
Horizontal	4434.156	59.03	-20.73	38.29	54	-15.71	AV
Horizontal	10360.163	64.25	-9.36	54.89	68.2	-13.31	PK
Horizontal	10360.163	49.72	-9.36	40.36	54	-13.64	AV
Horizontal	15540.117	64.84	-7.84	57.00	74	-17.00	PK
Horizontal	15540.117	49.98	-7.84	42.14	54	-11.86	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.084	71.22	-20.42	50.81	74	-23.19	PK
Vertical	4592.084	59.78	-20.42	39.36	54	-14.64	AV
Vertical	10400.076	63.84	-9.30	54.54	68.2	-13.66	PK
Vertical	10400.076	49.93	-9.30	40.63	54	-13.37	AV
Vertical	15600.126	63.44	-7.82	55.62	74	-18.38	PK
Vertical	15600.126	49.23	-7.82	41.41	54	-12.59	AV
Horizontal	4592.002	74.19	-20.42	53.78	74	-20.22	PK
Horizontal	4592.002	59.78	-20.42	39.36	54	-14.64	AV
Horizontal	10400.080	63.26	-9.30	53.96	68.2	-14.24	PK
Horizontal	10400.080	49.45	-9.30	40.15	54	-13.85	AV
Horizontal	15600.091	61.56	-7.82	53.74	74	-20.26	PK
Horizontal	15600.091	49.56	-7.82	41.74	54	-12.26	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.123	71.64	-20.12	51.52	74	-22.48	PK
Vertical	4739.123	59.62	-20.12	39.50	54	-14.50	AV
Vertical	10480.118	64.49	-9.18	55.31	68.2	-12.89	PK
Vertical	10480.118	49.44	-9.18	40.26	54	-13.74	AV
Vertical	15720.162	61.09	-7.78	53.31	74	-20.69	PK
Vertical	15720.162	49.02	-7.78	41.24	54	-12.76	AV
Horizontal	4739.115	74.77	-20.12	54.65	74	-19.35	PK
Horizontal	4739.115	59.76	-20.12	39.64	54	-14.36	AV
Horizontal	10480.137	64.03	-9.18	54.85	68.2	-13.35	PK
Horizontal	10480.137	49.17	-9.18	39.99	54	-14.01	AV
Horizontal	15720.147	64.96	-7.78	57.18	74	-16.82	PK
Horizontal	15720.147	49.72	-7.78	41.94	54	-12.06	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)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.114	72.26	-20.73	51.53	68.2	-16.67	PK
Vertical	4434.114	59.70	-20.73	38.97	54	-15.03	AV
Vertical	10380.152	64.92	-9.33	55.59	68.2	-12.61	PK
Vertical	10380.152	49.09	-9.33	39.76	54	-14.24	AV
Vertical	15570.076	62.00	-7.83	54.17	74	-19.83	PK
Vertical	15570.076	49.36	-7.83	41.53	54	-12.47	AV
Horizontal	4434.071	71.47	-20.73	50.73	74	-23.27	PK
Horizontal	4434.071	59.78	-20.73	39.04	54	-14.96	AV
Horizontal	10380.125	64.37	-9.33	55.04	68.2	-13.16	PK
Horizontal	10380.125	49.60	-9.33	40.27	54	-13.73	AV
Horizontal	15570.159	64.82	-7.83	56.99	74	-17.01	PK
Horizontal	15570.159	49.74	-7.83	41.91	54	-12.09	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.031	72.14	-20.12	52.01	68.2	-16.19	PK
Vertical	4739.031	59.77	-20.12	39.65	54	-14.35	AV
Vertical	10460.177	63.72	-9.21	54.51	68.2	-13.69	PK
Vertical	10460.177	49.31	-9.21	40.10	54	-13.90	AV
Vertical	15690.103	61.69	-7.79	53.90	74	-20.10	PK
Vertical	15690.103	49.88	-7.79	42.09	54	-11.91	AV
Horizontal	4739.006	73.28	-20.12	53.16	68.2	-15.04	PK
Horizontal	4739.006	59.91	-20.12	39.79	54	-14.21	AV
Horizontal	10460.047	64.69	-9.21	55.48	68.2	-12.72	PK
Horizontal	10460.047	49.90	-9.21	40.69	54	-13.31	AV
Horizontal	15690.034	64.82	-7.79	57.03	74	-16.97	PK
Horizontal	15690.034	49.43	-7.79	41.64	54	-12.36	AV

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

Test Mode:	TX(5.1G) -802.11ac-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.008	70.99	-20.73	50.26	68.2	-17.94	PK
Vertical	4434.008	59.88	-20.73	39.15	54	-14.85	AV
Vertical	10360.176	64.69	-9.36	55.33	68.2	-12.87	PK
Vertical	10360.176	49.38	-9.36	40.02	54	-13.98	AV
Vertical	15540.157	64.84	-7.84	57.00	74	-17.00	PK
Vertical	15540.157	49.71	-7.84	41.87	54	-12.13	AV
Horizontal	4434.002	71.47	-20.73	50.73	68.2	-17.47	PK
Horizontal	4434.002	59.06	-20.73	38.32	54	-15.68	AV
Horizontal	10360.031	62.60	-9.36	53.24	68.2	-14.96	PK
Horizontal	10360.031	49.50	-9.36	40.14	54	-13.86	AV
Horizontal	15540.090	62.51	-7.84	54.67	74	-19.33	PK
Horizontal	15540.090	49.22	-7.84	41.38	54	-12.62	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.026	73.36	-20.42	52.95	74	-21.05	PK
Vertical	4592.026	59.55	-20.42	39.13	54	-14.87	AV
Vertical	10400.124	60.87	-9.30	51.57	68.2	-16.63	PK
Vertical	10400.124	49.06	-9.30	39.76	54	-14.24	AV
Vertical	15600.073	60.33	-7.82	52.51	74	-21.49	PK
Vertical	15600.073	49.45	-7.82	41.63	54	-12.37	AV
Horizontal	4592.157	72.43	-20.42	52.01	74	-21.99	PK
Horizontal	4592.157	59.89	-20.42	39.48	54	-14.52	AV
Horizontal	10400.014	60.09	-9.30	50.79	68.2	-17.41	PK
Horizontal	10400.014	49.48	-9.30	40.18	54	-13.82	AV
Horizontal	15600.134	61.42	-7.82	53.60	74	-20.40	PK
Horizontal	15600.134	49.75	-7.82	41.93	54	-12.07	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.101	71.82	-20.12	51.70	74	-22.30	PK
Vertical	4739.101	59.73	-20.12	39.61	54	-14.39	AV
Vertical	10480.045	61.61	-9.18	52.43	68.2	-15.77	PK
Vertical	10480.045	49.06	-9.18	39.88	54	-14.12	AV
Vertical	15720.103	63.86	-7.78	56.08	74	-17.92	PK
Vertical	15720.103	49.77	-7.78	41.99	54	-12.01	AV
Horizontal	4739.101	74.70	-20.12	54.58	74	-19.42	PK
Horizontal	4739.101	59.97	-20.12	39.85	54	-14.15	AV
Horizontal	10480.139	62.48	-9.18	53.30	68.2	-14.90	PK
Horizontal	10480.139	49.42	-9.18	40.24	54	-13.76	AV
Horizontal	15720.098	64.96	-7.78	57.18	74	-16.82	PK
Horizontal	15720.098	49.87	-7.78	42.09	54	-11.91	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)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.189	72.33	-20.73	51.60	68.2	-16.60	PK
Vertical	4434.189	59.25	-20.73	38.52	54	-15.48	AV
Vertical	10380.052	62.16	-9.33	52.83	68.2	-15.37	PK
Vertical	10380.052	49.60	-9.33	40.27	54	-13.73	AV
Vertical	15570.150	64.41	-7.83	56.58	74	-17.42	PK
Vertical	15570.150	49.27	-7.83	41.44	54	-12.56	AV
Horizontal	4434.041	74.17	-20.73	53.44	74	-20.56	PK
Horizontal	4434.041	59.40	-20.73	38.66	54	-15.34	AV
Horizontal	10380.043	62.11	-9.33	52.78	68.2	-15.42	PK
Horizontal	10380.043	49.67	-9.33	40.34	54	-13.66	AV
Horizontal	15570.021	62.80	-7.83	54.97	74	-19.03	PK
Horizontal	15570.021	49.11	-7.83	41.28	54	-12.72	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.195	73.55	-20.12	53.43	68.2	-14.77	PK
Vertical	4739.195	59.10	-20.12	38.98	54	-15.02	AV
Vertical	10460.113	62.82	-9.21	53.61	68.2	-14.59	PK
Vertical	10460.113	49.64	-9.21	40.43	54	-13.57	AV
Vertical	15690.064	63.34	-7.79	55.55	74	-18.45	PK
Vertical	15690.064	49.59	-7.79	41.80	54	-12.20	AV
Horizontal	4739.039	74.71	-20.12	54.59	68.2	-13.61	PK
Horizontal	4739.039	59.01	-20.12	38.89	54	-15.11	AV
Horizontal	10460.046	62.82	-9.21	53.61	68.2	-14.59	PK
Horizontal	10460.046	49.33	-9.21	40.12	54	-13.88	AV
Horizontal	15690.051	63.33	-7.79	55.54	74	-18.46	PK
Horizontal	15690.051	49.92	-7.79	42.13	54	-11.87	AV

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

Test Mode:	TX(5.1G) -802.11ac-HT80
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
(5210 MHz)-Above 1G							
Vertical	4434.005	74.08	-20.73	53.35	68.2	-14.85	PK
Vertical	4434.005	59.47	-20.73	38.74	54	-15.26	AV
Vertical	10420.033	64.27	-9.27	55.00	68.2	-13.20	PK
Vertical	10420.033	49.68	-9.27	40.41	54	-13.59	AV
Vertical	15630.007	61.61	-7.81	53.80	74	-20.20	PK
Vertical	15630.007	49.65	-7.81	41.84	54	-12.16	AV
Horizontal	4434.172	73.11	-20.73	52.38	68.2	-15.82	PK
Horizontal	4434.172	49.72	-20.73	28.99	54	-25.01	AV
Horizontal	10420.005	43.30	9.27	52.57	68.2	-15.63	PK
Horizontal	10420.005	29.16	9.27	38.43	54	-15.57	AV
Horizontal	15630.124	63.71	-7.81	55.90	74	-18.10	PK
Horizontal	15630.124	49.61	-7.81	41.80	54	-12.20	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	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.183	70.13	-20.24	49.89	74	-24.11	PK
Vertical	4679.183	59.30	-20.24	39.06	54	-14.94	AV
Vertical	11490.156	63.20	-8.79	54.41	68.2	-13.79	PK
Vertical	11490.156	49.68	-8.79	40.89	54	-13.11	AV
Vertical	17235.145	56.60	-3.18	53.42	68.2	-14.78	PK
Vertical	17235.145	44.22	-3.18	41.04	54	-12.96	AV
Horizontal	4679.105	70.47	-20.73	49.74	74	-24.26	PK
Horizontal	4679.105	59.14	-20.73	38.41	54	-15.59	AV
Horizontal	11490.019	61.07	-8.79	52.28	68.2	-15.92	PK
Horizontal	11490.019	49.94	-8.79	41.15	54	-12.85	AV
Horizontal	17235.035	55.14	-3.18	51.96	68.2	-16.24	PK
Horizontal	17235.035	44.05	-3.18	40.87	54	-13.13	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.111	74.55	-20.42	54.13	74	-19.87	PK
Vertical	4592.111	59.30	-20.42	38.89	54	-15.11	AV
Vertical	11570.126	62.42	-8.86	53.56	68.2	-14.64	PK
Vertical	11570.126	49.28	-8.86	40.42	54	-13.58	AV
Vertical	17355.082	58.83	-2.52	56.31	68.2	-11.89	PK
Vertical	17355.082	44.59	-2.52	42.07	54	-11.93	AV
Horizontal	4592.090	74.92	-20.42	54.50	74	-19.50	PK
Horizontal	4592.090	59.30	-20.42	38.88	54	-15.12	AV
Horizontal	11570.183	63.68	-8.86	54.82	68.2	-13.38	PK
Horizontal	11570.183	49.06	-8.86	40.20	54	-13.80	AV
Horizontal	17355.190	55.92	-2.52	53.40	68.2	-14.80	PK
Horizontal	17355.190	44.78	-2.52	42.26	54	-11.74	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.043	73.78	-18.93	54.85	68.2	-13.35	PK
Vertical	6039.043	59.76	-18.93	40.82	54	-13.18	AV
Vertical	11650.055	61.76	-8.92	52.84	74	-21.16	PK
Vertical	11650.055	49.14	-8.92	40.22	54	-13.78	AV
Vertical	17475.195	57.83	-1.86	55.97	68.2	-12.23	PK
Vertical	17475.195	44.33	-1.86	42.47	54	-11.53	AV
Horizontal	6039.033	70.91	-18.93	51.97	68.2	-16.23	PK
Horizontal	6039.033	59.52	-18.93	40.58	54	-13.42	AV
Horizontal	11650.039	62.33	-8.92	53.41	74	-20.59	PK
Horizontal	11650.039	49.69	-8.92	40.77	54	-13.23	AV
Horizontal	17475.193	59.71	-1.86	57.85	68.2	-10.35	PK
Horizontal	17475.193	44.60	-1.86	42.74	54	-11.26	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	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.052	72.80	-20.24	52.56	74	-21.44	PK
Vertical	4679.052	59.62	-20.24	39.38	54	-14.62	AV
Vertical	11490.182	62.69	-8.79	53.90	68.2	-14.30	PK
Vertical	11490.182	49.28	-8.79	40.49	54	-13.51	AV
Vertical	17235.031	55.16	-3.18	51.98	68.2	-16.22	PK
Vertical	17235.031	44.94	-3.18	41.76	54	-12.24	AV
Horizontal	4679.065	74.76	-20.24	54.52	74	-19.48	PK
Horizontal	4679.065	59.23	-20.24	38.99	54	-15.01	AV
Horizontal	11490.013	63.44	-8.79	54.65	68.2	-13.55	PK
Horizontal	11490.013	49.19	-8.79	40.40	54	-13.60	AV
Horizontal	17235.060	56.85	-3.18	53.67	68.2	-14.53	PK
Horizontal	17235.060	44.15	-3.18	40.97	54	-13.03	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.175	71.10	-20.42	50.69	74	-23.31	PK
Vertical	4592.175	59.59	-20.42	39.17	54	-14.83	AV
Vertical	11570.124	62.34	-8.86	53.48	68.2	-14.72	PK
Vertical	11570.124	49.44	-8.86	40.58	54	-13.42	AV
Vertical	17355.064	56.35	-2.52	53.83	68.2	-14.37	PK
Vertical	17355.064	44.82	-2.52	42.30	54	-11.70	AV
Horizontal	4592.022	70.76	-20.42	50.34	74	-23.66	PK
Horizontal	4592.022	59.88	-20.42	39.47	54	-14.53	AV
Horizontal	11570.134	64.29	-8.86	55.43	68.2	-12.77	PK
Horizontal	11570.134	49.21	-8.86	40.35	54	-13.65	AV
Horizontal	17355.058	57.41	-2.52	54.89	68.2	-13.31	PK
Horizontal	17355.058	44.08	-2.52	41.56	54	-12.44	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.081	73.99	-18.93	55.06	68.2	-13.14	PK
Vertical	6039.081	59.76	-18.93	40.83	54	-13.17	AV
Vertical	11650.101	60.51	-8.92	51.59	74	-22.41	PK
Vertical	11650.101	49.79	-8.92	40.87	54	-13.13	AV
Vertical	17475.198	59.00	-1.86	57.14	68.2	-11.06	PK
Vertical	17475.198	44.27	-1.86	42.41	54	-11.59	AV
Horizontal	6039.177	71.47	-18.93	52.54	68.2	-15.66	PK
Horizontal	6039.177	59.43	-18.93	40.49	54	-13.51	AV
Horizontal	11650.106	63.32	-8.92	54.40	74	-19.60	PK
Horizontal	11650.106	49.47	-8.92	40.55	54	-13.45	AV
Horizontal	17475.078	59.04	-1.86	57.18	68.2	-11.02	PK
Horizontal	17475.078	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-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.007	73.55	-20.24	53.31	74	-20.69	PK
Vertical	4679.007	59.60	-20.24	39.36	54	-14.64	AV
Vertical	11510.033	61.39	-8.81	52.58	74	-21.42	PK
Vertical	11510.033	49.16	-8.81	40.35	54	-13.65	AV
Vertical	17265.187	56.62	-3.01	53.61	68.2	-14.59	PK
Vertical	17265.187	44.15	-3.01	41.14	54	-12.86	AV
Horizontal	4679.071	70.42	-20.24	50.18	74	-23.82	PK
Horizontal	4679.071	59.66	-20.24	39.42	54	-14.58	AV
Horizontal	11510.164	60.32	-8.81	51.51	74	-22.49	PK
Horizontal	11510.164	49.19	-8.81	40.38	54	-13.62	AV
Horizontal	17265.198	59.36	-3.01	56.35	68.2	-11.85	PK
Horizontal	17265.198	44.80	-3.01	41.79	54	-12.21	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.171	72.37	-18.93	53.44	68.2	-14.76	PK
Vertical	6039.171	59.62	-18.93	40.69	54	-13.31	AV
Vertical	11590.163	61.33	-8.87	52.46	74	-21.54	PK
Vertical	11590.163	49.75	-8.87	40.88	54	-13.12	AV
Vertical	17385.005	55.61	-2.35	53.26	68.2	-14.94	PK
Vertical	17385.005	44.69	-2.35	42.34	54	-11.66	AV
Horizontal	6039.142	70.35	-18.93	51.41	68.2	-16.79	PK
Horizontal	6039.142	59.92	-18.93	40.99	54	-13.01	AV
Horizontal	11590.082	62.25	-8.87	53.38	74	-20.62	PK
Horizontal	11590.082	49.80	-8.87	40.93	54	-13.07	AV
Horizontal	17385.115	58.09	-2.35	55.74	68.2	-12.46	PK
Horizontal	17385.115	44.95	-2.35	42.60	54	-11.40	AV

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

Test Mode:	TX (5.8G) -- 802.11ac-HT20
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.000	71.71	-20.24	51.47	74	-22.53	PK
Vertical	4679.000	59.30	-20.24	39.06	54	-14.94	AV
Vertical	11490.084	63.58	-8.79	54.79	68.2	-13.41	PK
Vertical	11490.084	49.71	-8.79	40.92	54	-13.08	AV
Vertical	17235.098	55.80	-3.18	52.62	68.2	-15.58	PK
Vertical	17235.098	44.92	-3.18	41.74	54	-12.26	AV
Horizontal	4679.148	72.32	-20.24	52.08	74	-21.92	PK
Horizontal	4679.148	59.28	-20.24	39.04	54	-14.96	AV
Horizontal	11490.158	63.90	-8.79	55.11	68.2	-13.09	PK
Horizontal	11490.158	49.58	-8.79	40.79	54	-13.21	AV
Horizontal	17235.117	58.33	-3.18	55.15	68.2	-13.05	PK
Horizontal	17235.117	44.44	-3.18	41.26	54	-12.74	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.190	70.89	-20.42	50.48	74	-23.52	PK
Vertical	4592.190	59.94	-20.42	39.53	54	-14.47	AV
Vertical	11570.026	61.48	-8.86	52.62	68.2	-15.58	PK
Vertical	11570.026	49.58	-8.86	40.72	54	-13.28	AV
Vertical	17355.140	57.87	-2.52	55.35	68.2	-12.85	PK
Vertical	17355.140	44.68	-2.52	42.16	54	-11.84	AV
Horizontal	4592.106	74.96	-20.42	54.55	74	-19.45	PK
Horizontal	4592.106	59.03	-20.42	38.61	54	-15.39	AV
Horizontal	11570.010	61.64	-8.86	52.78	68.2	-15.42	PK
Horizontal	11570.010	49.07	-8.86	40.21	54	-13.79	AV
Horizontal	17355.178	56.45	-2.52	53.93	68.2	-14.27	PK
Horizontal	17355.178	44.54	-2.52	42.02	54	-11.98	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.087	70.16	-18.93	51.23	68.2	-16.97	PK
Vertical	6039.087	59.73	-18.93	40.80	54	-13.20	AV
Vertical	11650.166	64.33	-8.92	55.41	74	-18.59	PK
Vertical	11650.166	49.88	-8.92	40.96	54	-13.04	AV
Vertical	17475.132	57.25	-1.86	55.39	68.2	-12.81	PK
Vertical	17475.132	44.32	-1.86	42.46	54	-11.54	AV
Horizontal	6039.028	74.32	-18.93	55.39	68.2	-12.81	PK
Horizontal	6039.028	59.02	-18.93	40.09	54	-13.91	AV
Horizontal	11650.107	61.88	-8.92	52.96	74	-21.04	PK
Horizontal	11650.107	49.81	-8.92	40.89	54	-13.11	AV
Horizontal	17475.083	55.75	-1.86	53.89	68.2	-14.31	PK
Horizontal	17475.083	44.51	-1.86	42.65	54	-11.35	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 (5.8G) -- 802.11ac-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.095	73.02	-20.24	52.78	74	-21.22	PK
Vertical	4679.095	59.26	-20.24	39.02	54	-14.98	AV
Vertical	11510.181	60.55	-8.81	51.74	74	-22.26	PK
Vertical	11510.181	49.95	-8.81	41.14	54	-12.86	AV
Vertical	17265.080	57.31	-3.01	54.30	68.2	-13.90	PK
Vertical	17265.080	44.69	-3.01	41.68	54	-12.32	AV
Horizontal	4679.138	74.50	-20.24	54.26	74	-19.74	PK
Horizontal	4679.138	59.89	-20.24	39.64	54	-14.36	AV
Horizontal	11510.125	64.04	-8.81	55.23	74	-18.77	PK
Horizontal	11510.125	49.95	-8.81	41.14	54	-12.86	AV
Horizontal	17265.040	58.69	-3.01	55.68	68.2	-12.52	PK
Horizontal	17265.040	44.04	-3.01	41.03	54	-12.97	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.073	73.07	-18.93	54.14	68.2	-14.06	PK
Vertical	6039.073	59.63	-18.93	40.70	54	-13.30	AV
Vertical	11590.170	61.44	-8.87	52.57	74	-21.43	PK
Vertical	11590.170	49.26	-8.87	40.39	54	-13.61	AV
Vertical	17385.060	57.88	-2.35	55.53	68.2	-12.67	PK
Vertical	17385.060	44.41	-2.35	42.06	54	-11.94	AV
Horizontal	6039.102	73.59	-18.93	54.66	68.2	-13.54	PK
Horizontal	6039.102	59.80	-18.93	40.87	54	-13.13	AV
Horizontal	11590.072	62.11	-8.87	53.24	74	-20.76	PK
Horizontal	11590.072	49.22	-8.87	40.35	54	-13.65	AV
Horizontal	17385.015	58.18	-2.35	55.83	68.2	-12.37	PK
Horizontal	17385.015	44.78	-2.35	42.43	54	-11.57	AV

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

Test Mode:	TX (5.8G) -- 802.11ac-HT80
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
(5775 MHz)-Above 1G							
Vertical	4679.136	71.03	-20.24	50.78	74	-23.22	PK
Vertical	4679.136	59.48	-20.24	39.24	54	-14.76	AV
Vertical	11550.032	60.31	-8.84	51.47	74	-22.53	PK
Vertical	11550.032	49.86	-8.84	41.02	54	-12.98	AV
Vertical	17325.115	55.69	-2.68	53.01	68.2	-15.19	PK
Vertical	17325.115	44.75	-2.68	42.07	54	-11.93	AV
Horizontal	4679.154	72.11	-20.24	51.87	74	-22.13	PK
Horizontal	4679.154	59.85	-20.24	39.61	54	-14.39	AV
Horizontal	11550.087	61.04	-8.84	52.20	74	-21.80	PK
Horizontal	11550.087	49.82	-8.84	40.98	54	-13.02	AV
Horizontal	17325.189	57.81	-2.68	55.13	68.2	-13.07	PK
Horizontal	17325.189	44.23	-2.68	41.55	54	-12.45	AV

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

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

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

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

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 colocated 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

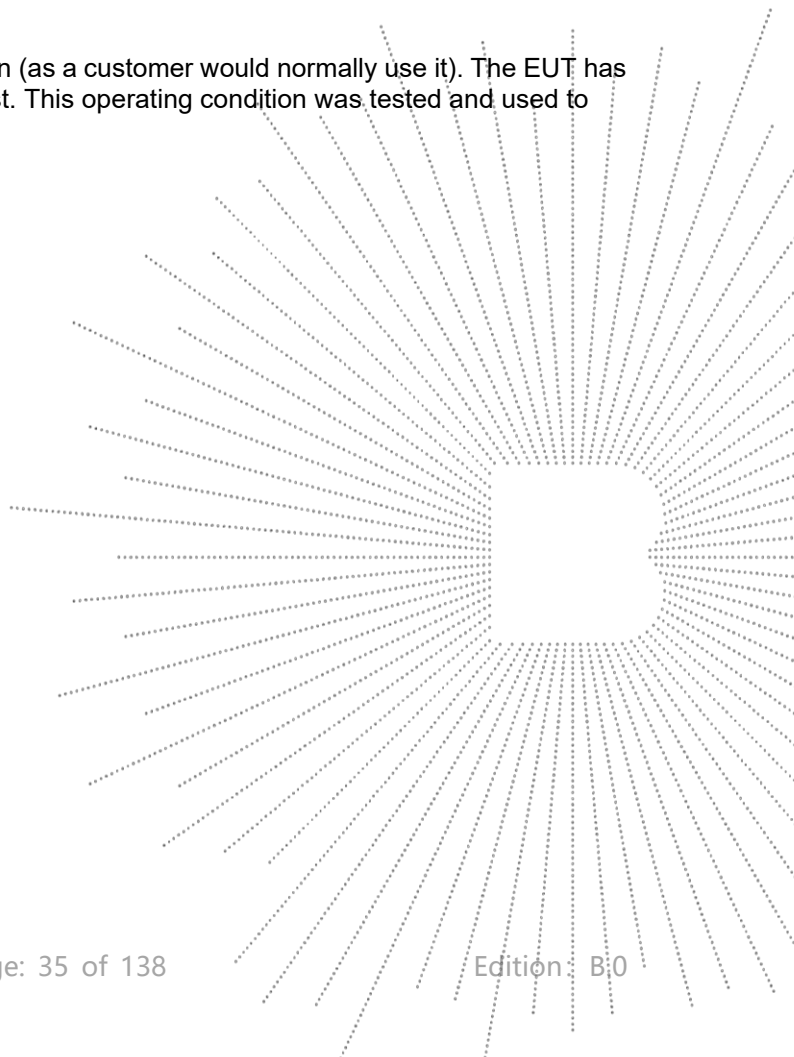
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 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.

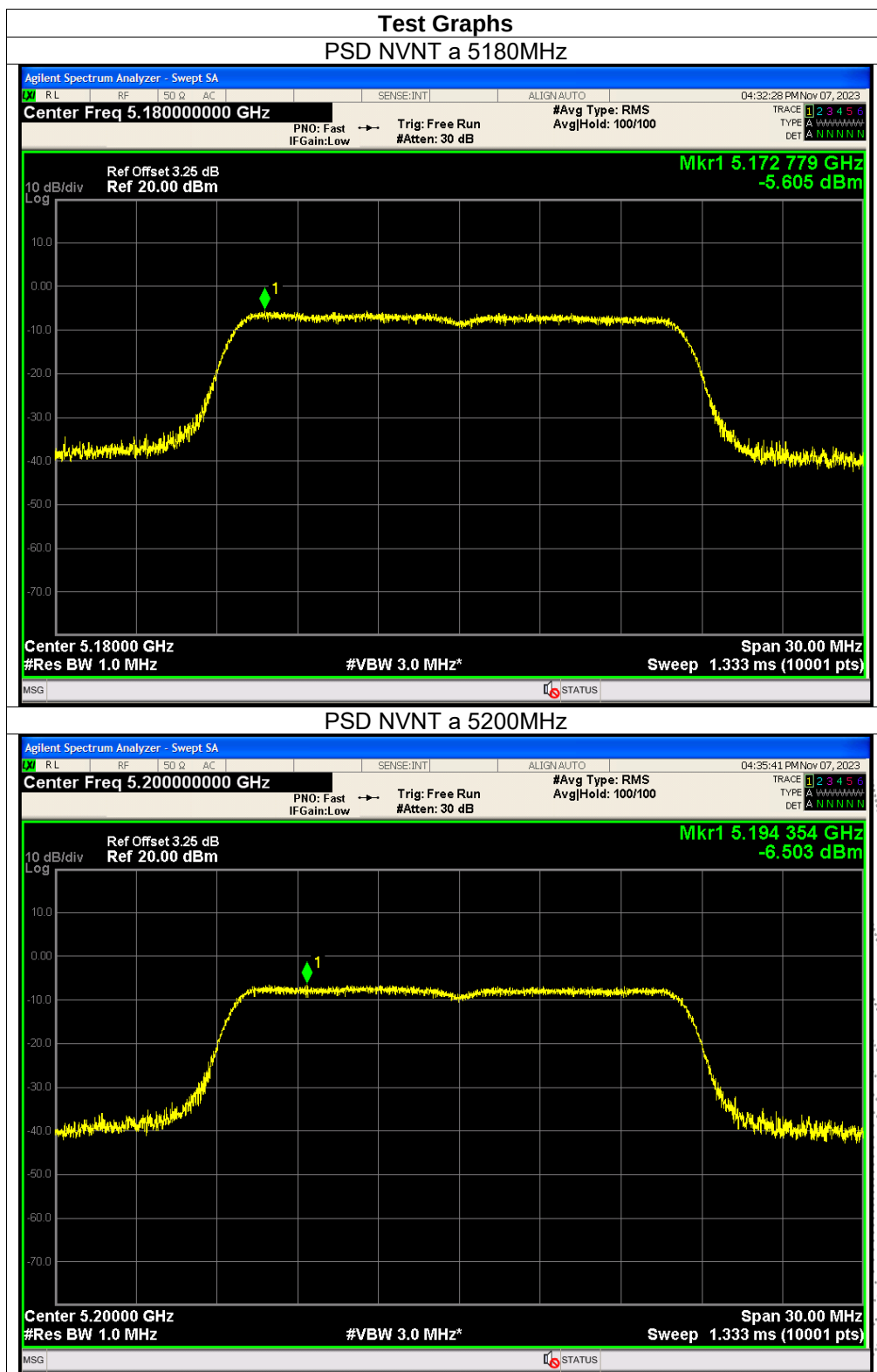


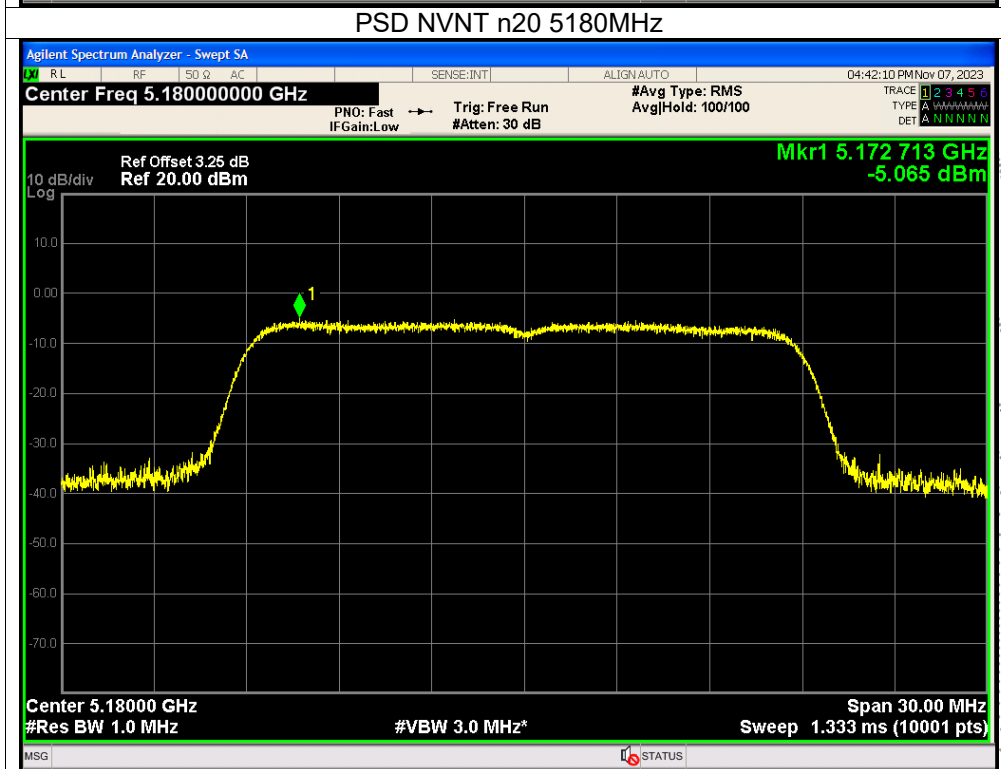
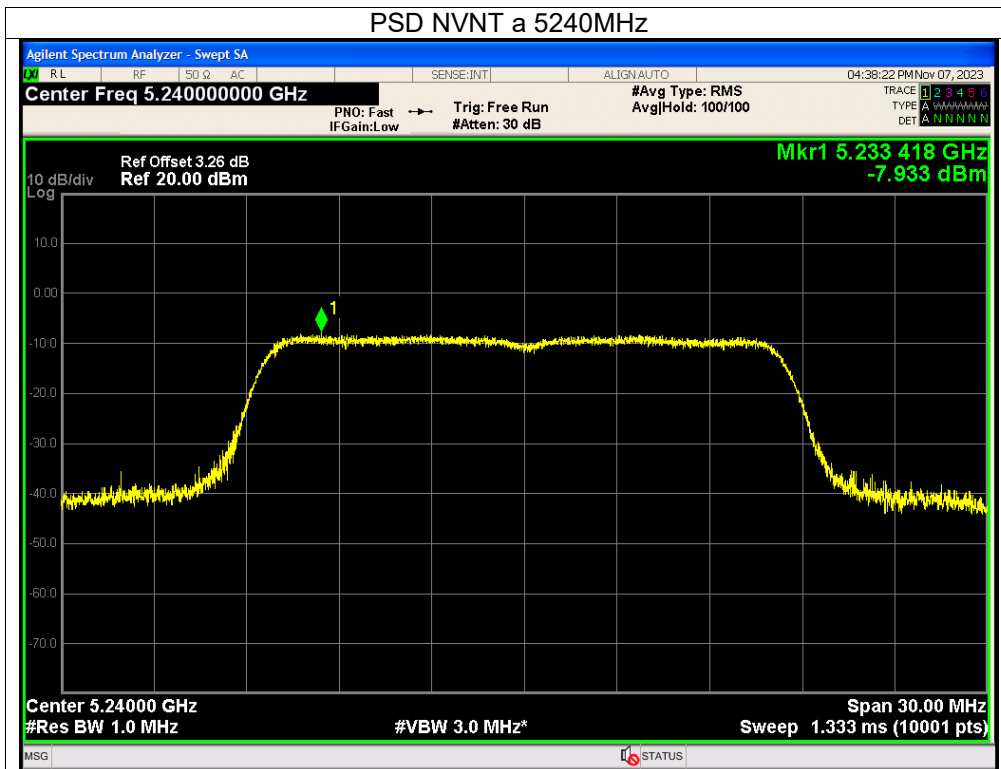
8.5 Test Result

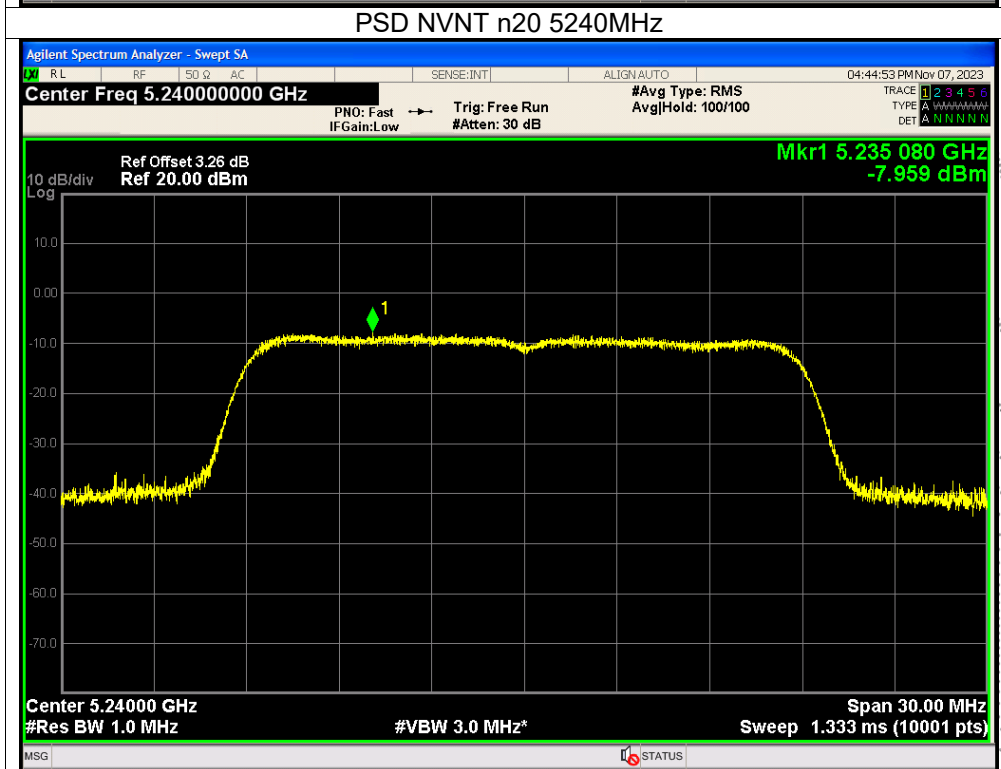
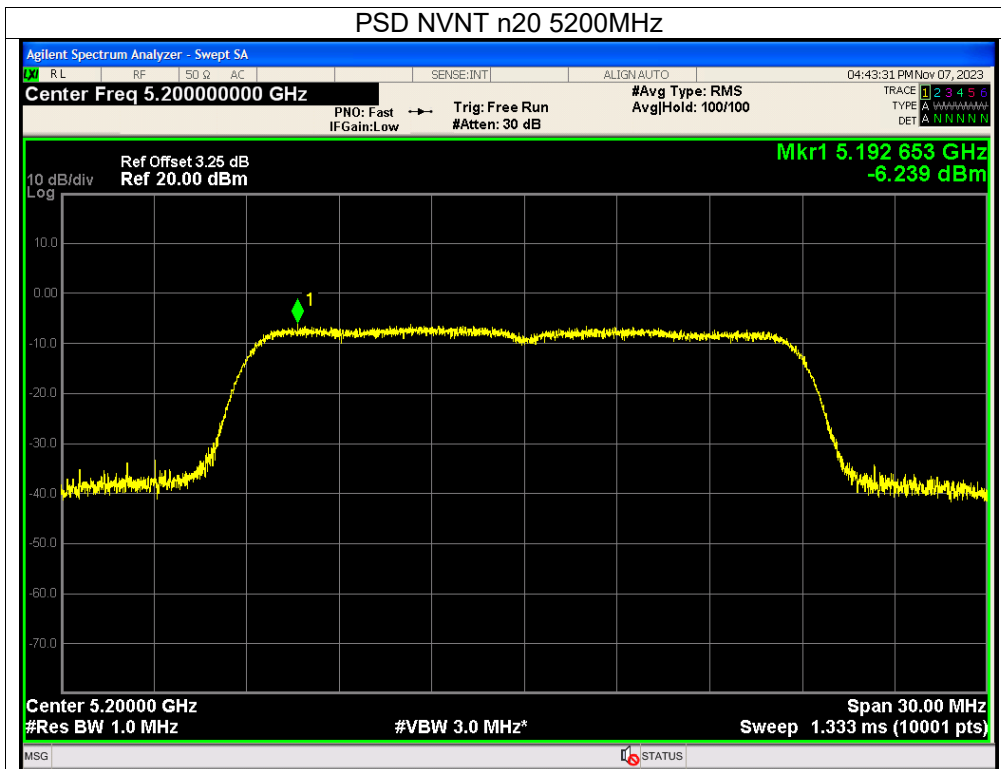
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.85V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

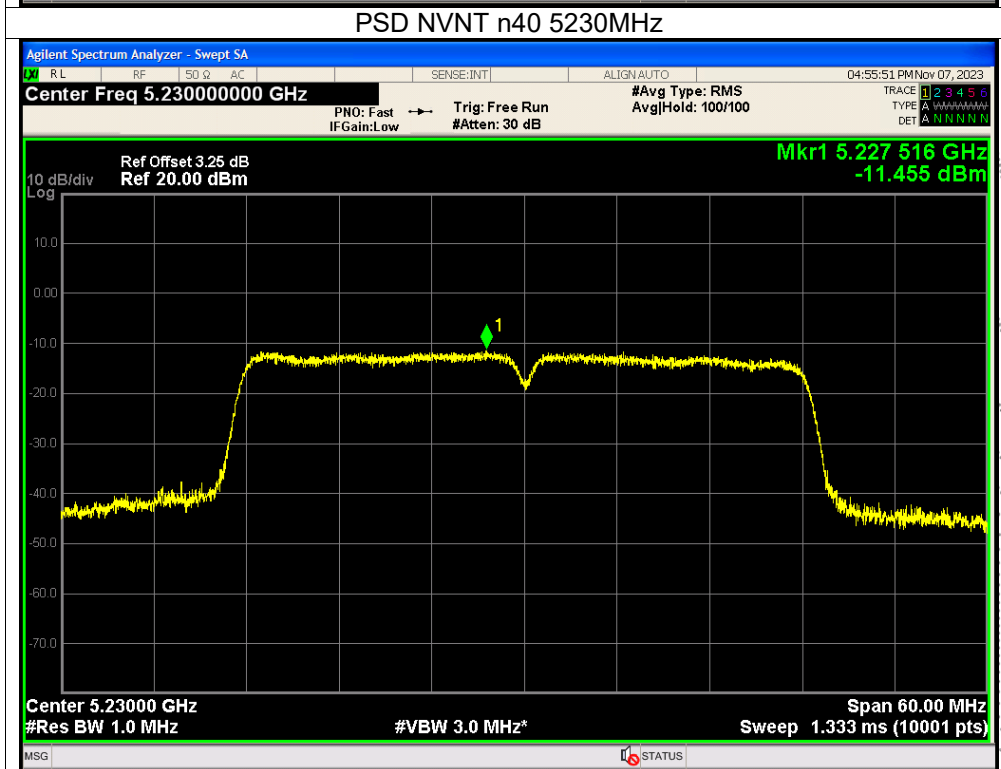
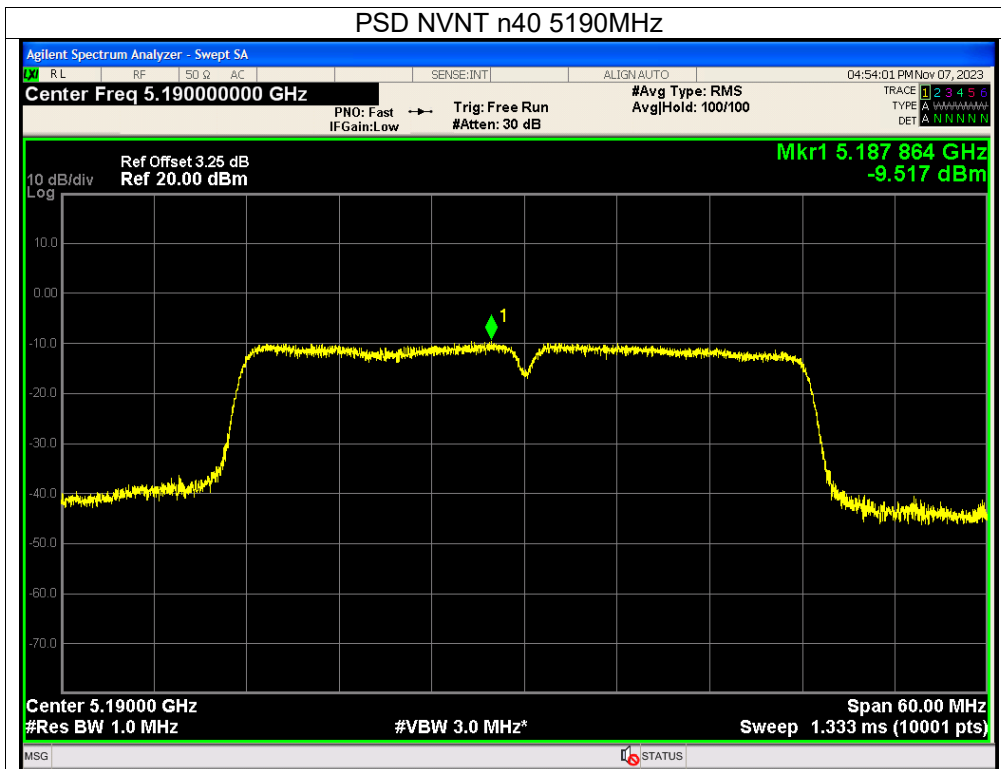
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-5.61	11	Pass
NVNT	a	5200	-6.5	11	Pass
NVNT	a	5240	-7.93	11	Pass
NVNT	n20	5180	-5.07	11	Pass
NVNT	n20	5200	-6.24	11	Pass
NVNT	n20	5240	-7.96	11	Pass
NVNT	n40	5190	-9.52	11	Pass
NVNT	n40	5230	-11.46	11	Pass
NVNT	ac20	5180	-5.99	11	Pass
NVNT	ac20	5200	-6.81	11	Pass
NVNT	ac20	5240	-8.26	11	Pass
NVNT	ac40	5190	-9.98	11	Pass
NVNT	ac40	5230	-12.27	11	Pass
NVNT	ac80	5210	-14.43	11	Pass

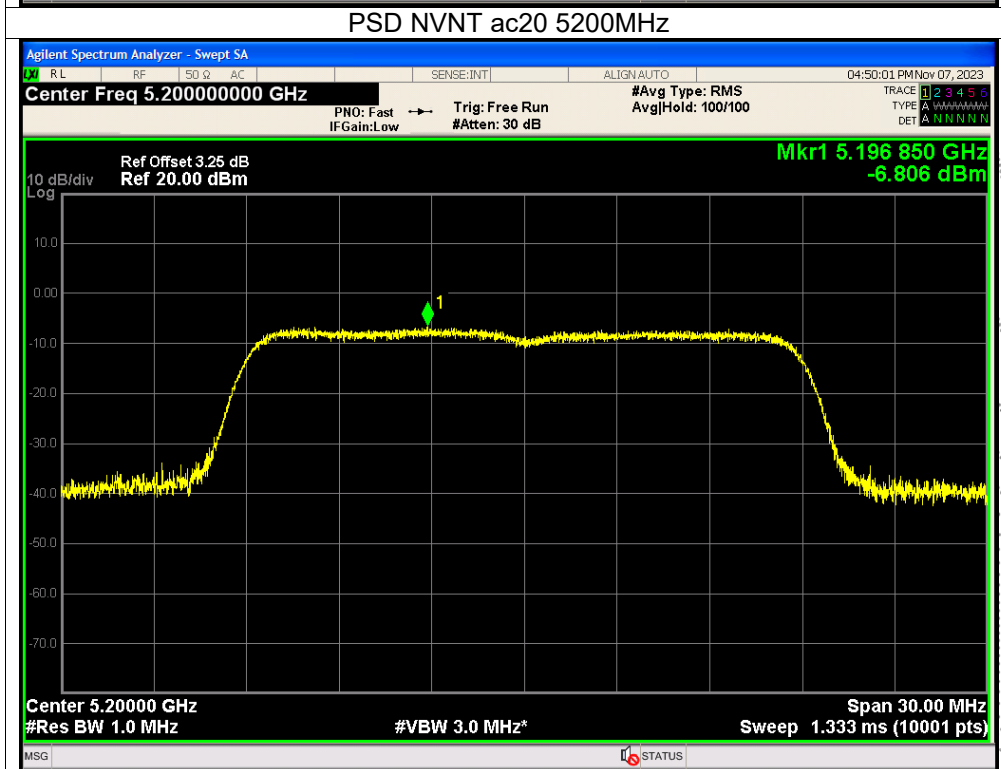
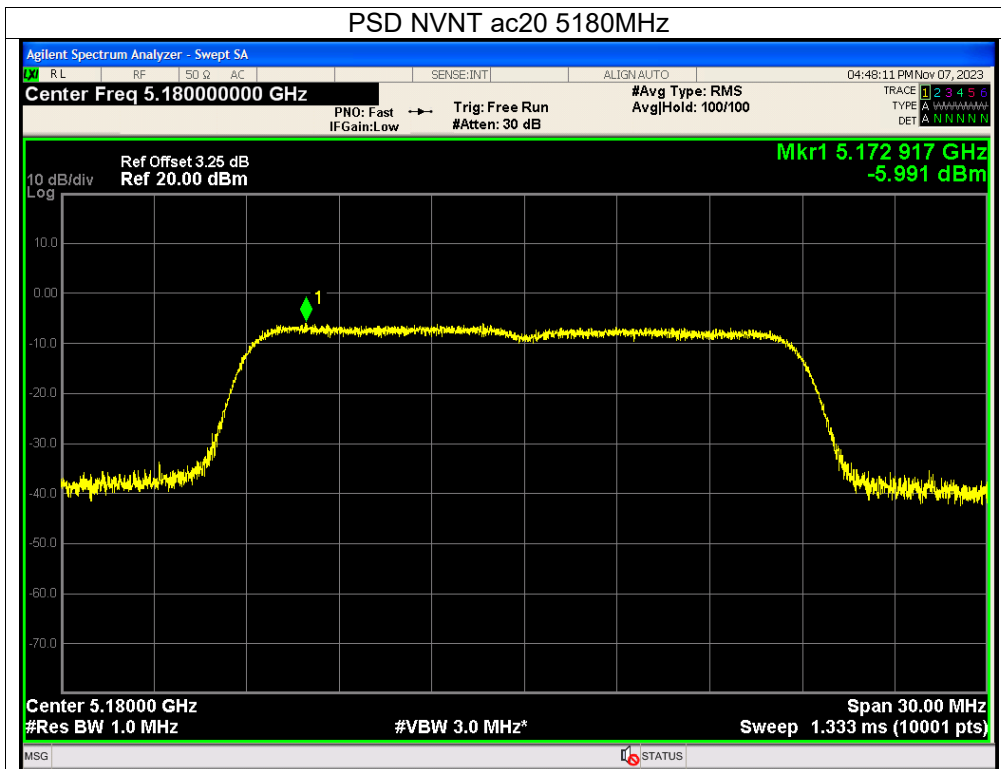
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-8.07	30	Pass
NVNT	a	5785	-8.65	30	Pass
NVNT	a	5825	-9.06	30	Pass
NVNT	n20	5745	-8.4	30	Pass
NVNT	n20	5785	-8.97	30	Pass
NVNT	n20	5825	-9.24	30	Pass
NVNT	n40	5755	-12.65	30	Pass
NVNT	n40	5795	-12.47	30	Pass
NVNT	ac20	5745	-8.8	30	Pass
NVNT	ac20	5785	-8.83	30	Pass
NVNT	ac20	5825	-9.21	30	Pass
NVNT	ac40	5755	-11.69	30	Pass
NVNT	ac40	5795	-12.75	30	Pass
NVNT	ac80	5775	-16.63	30	Pass

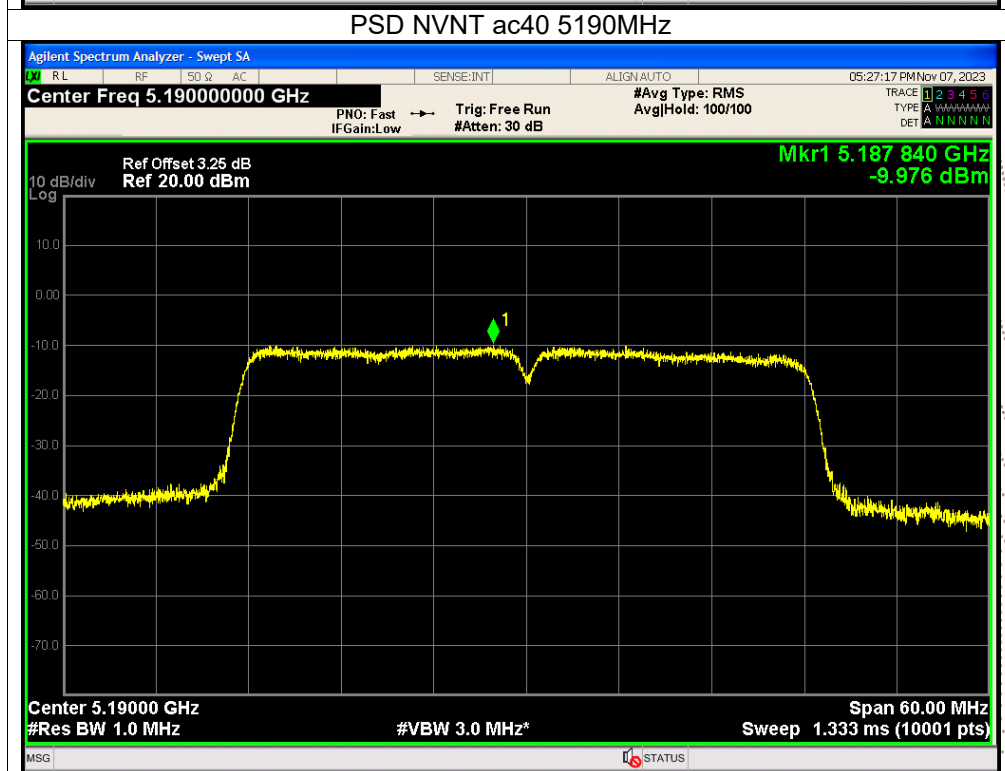
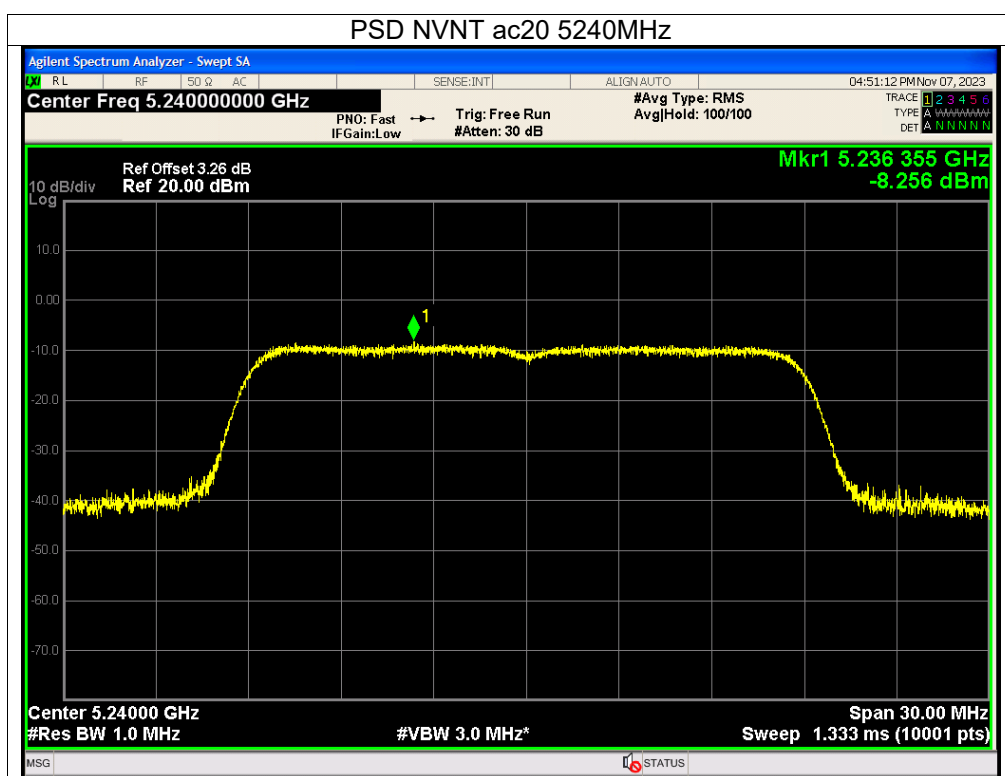


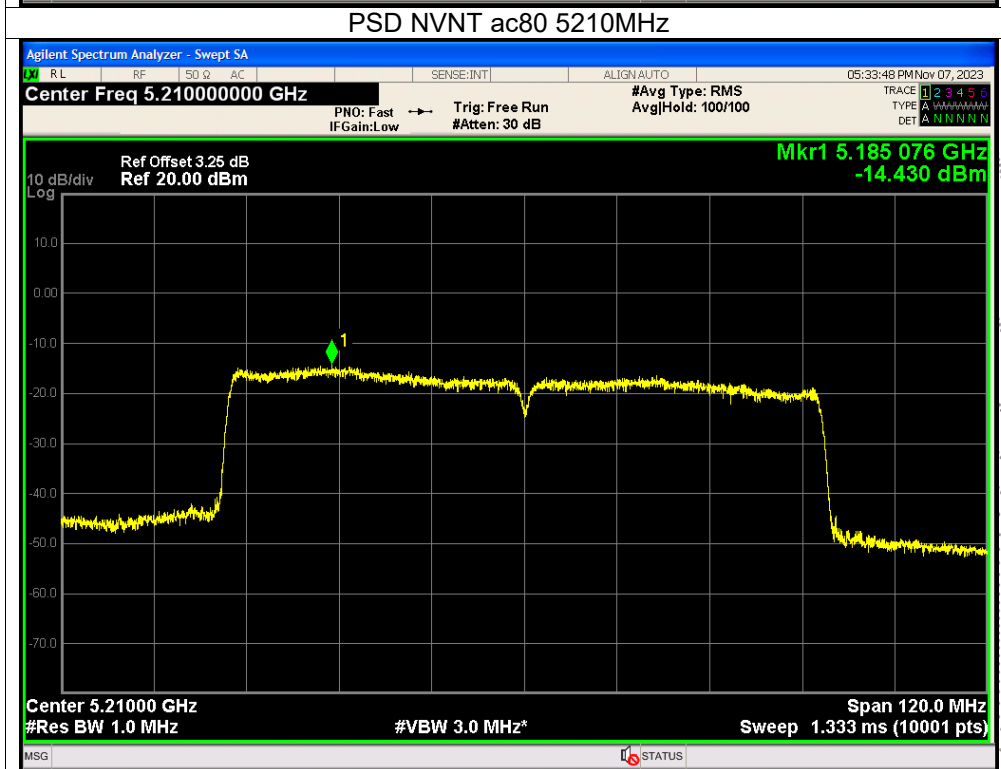
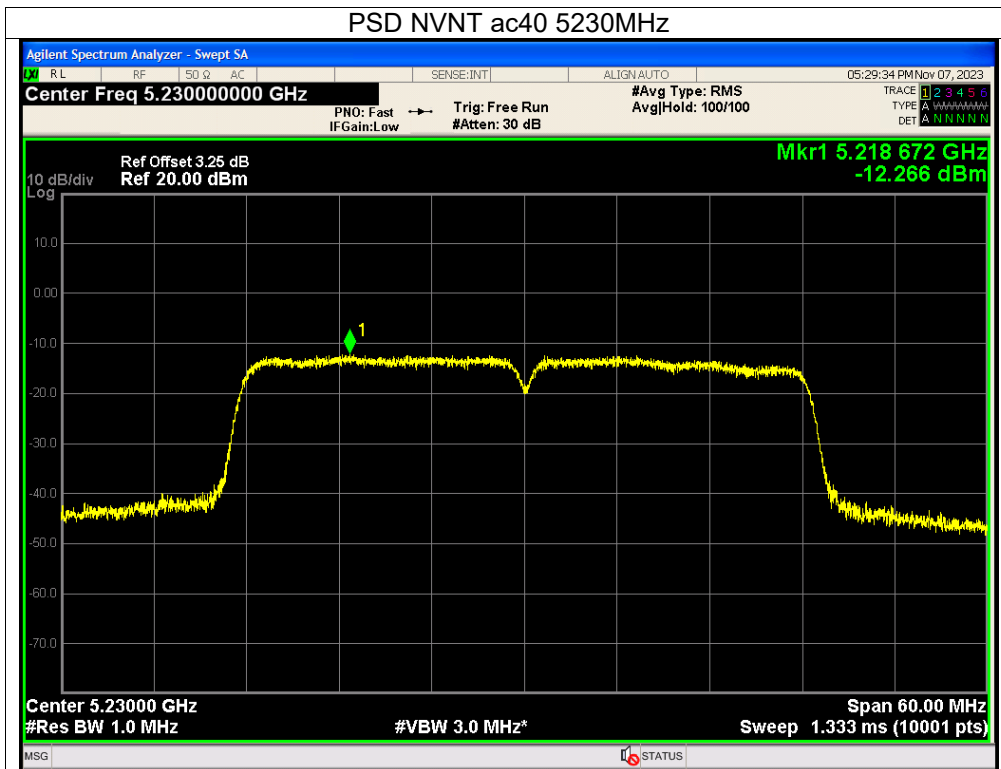


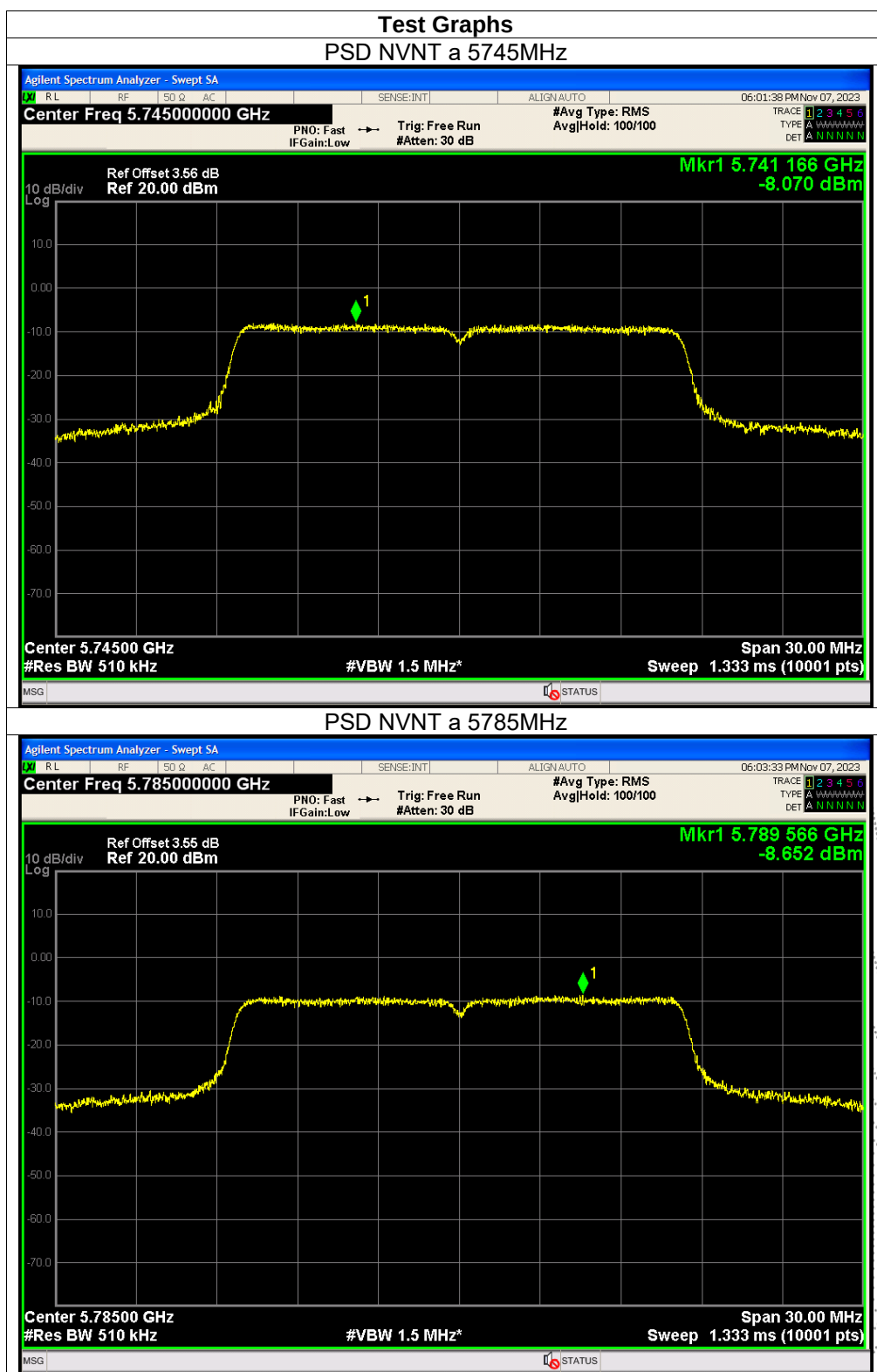


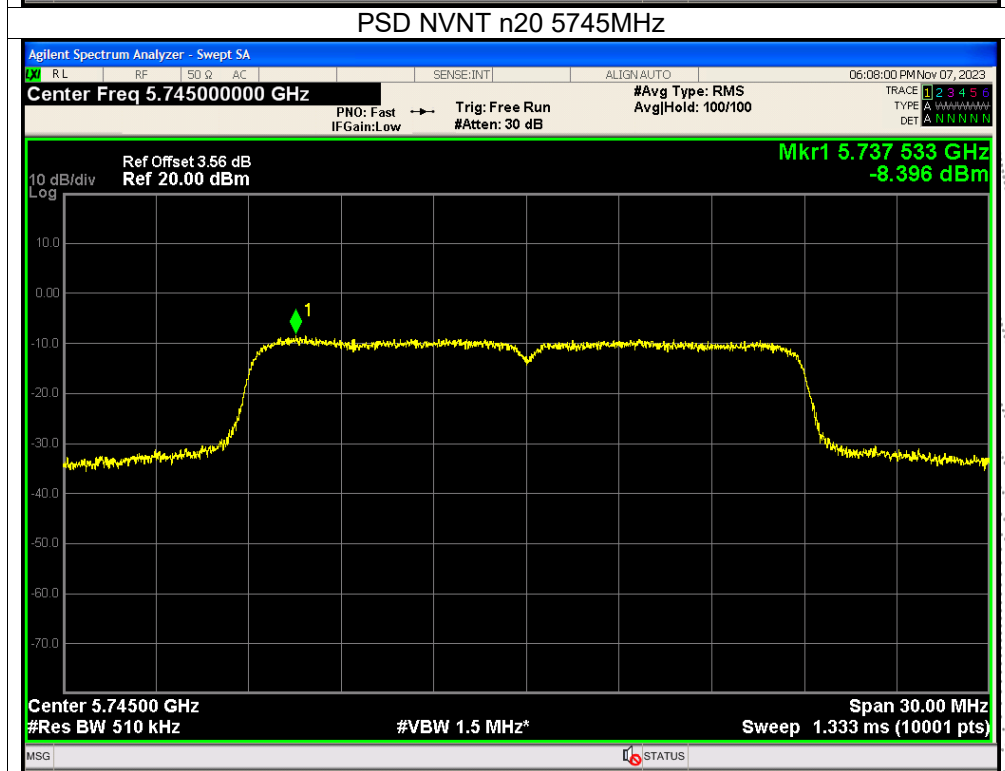
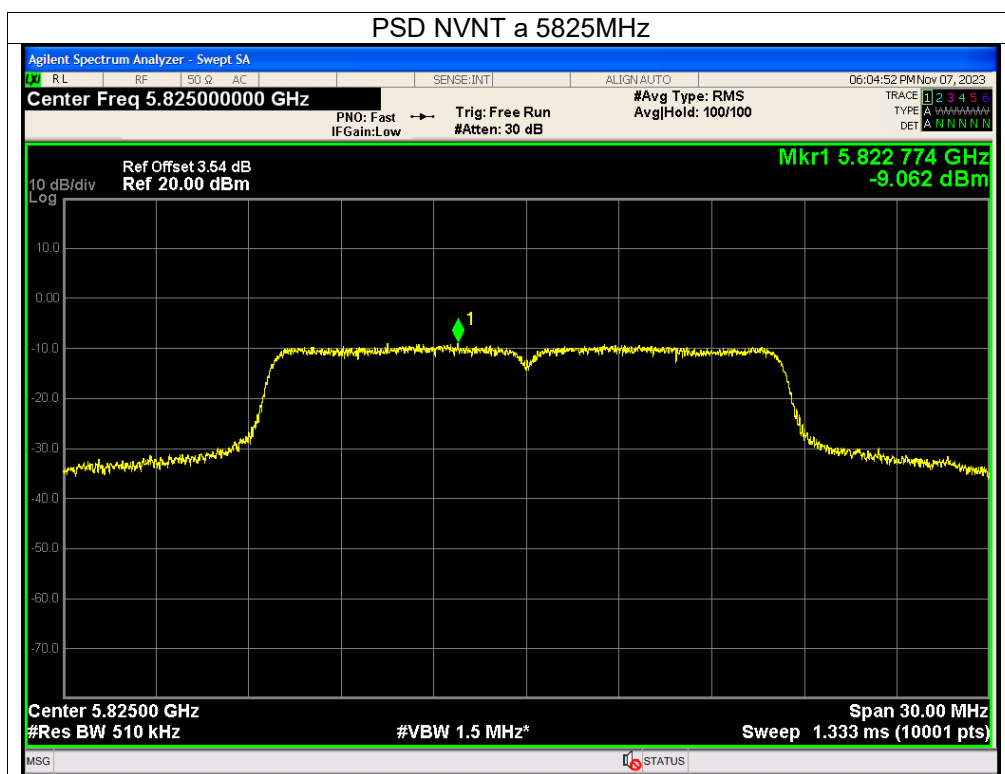


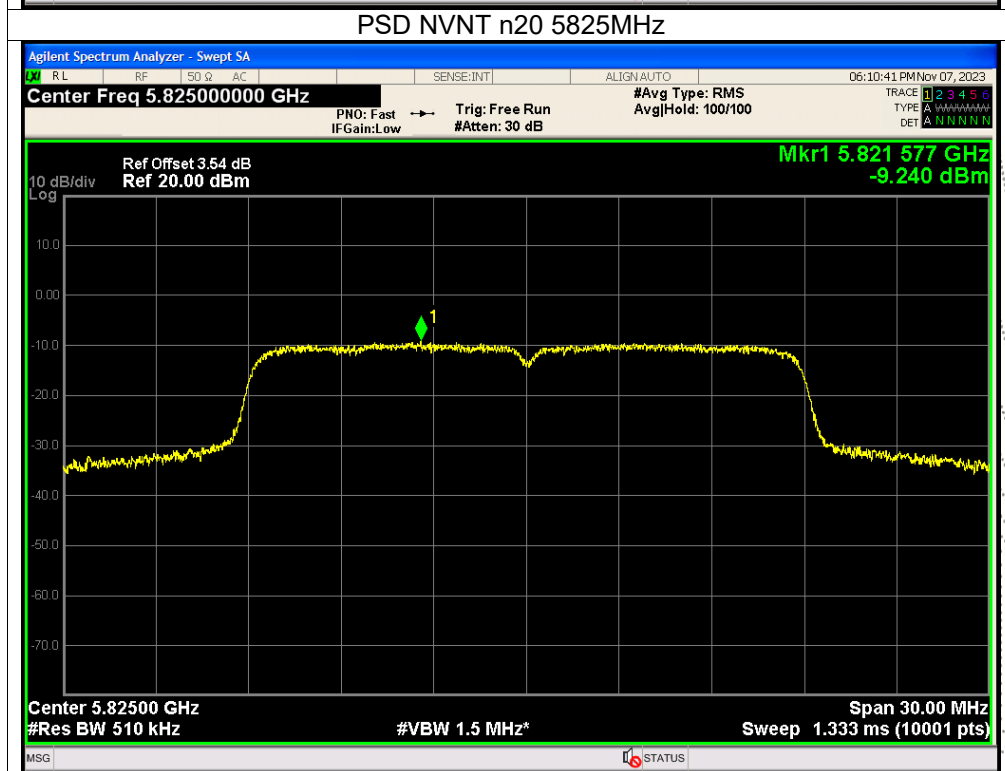
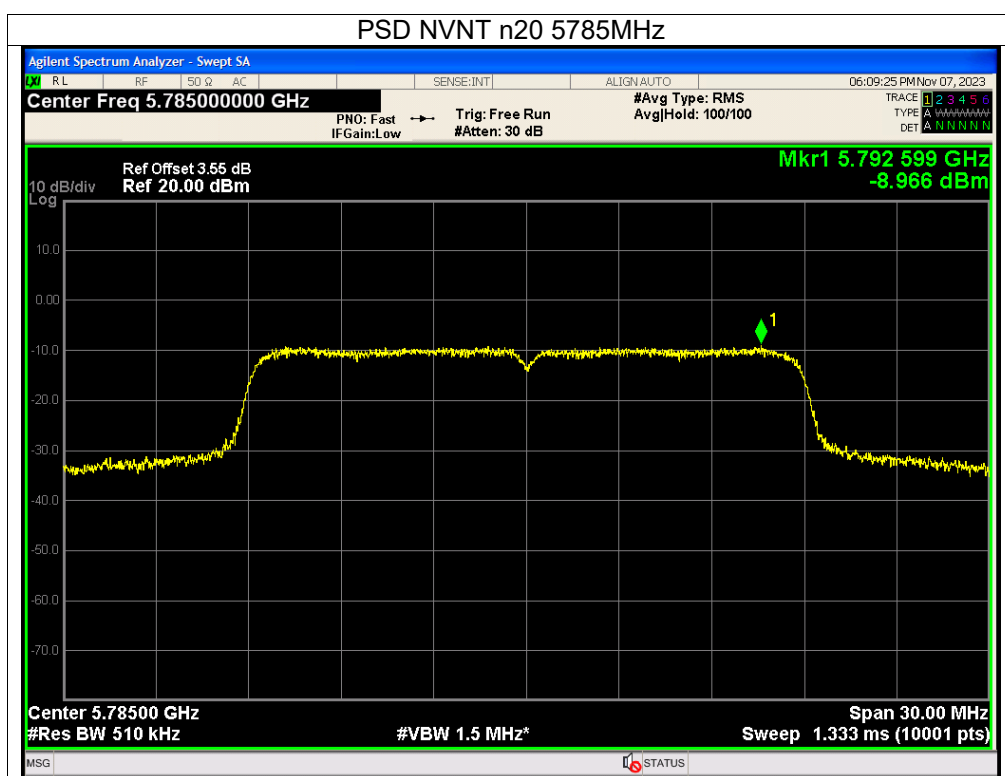


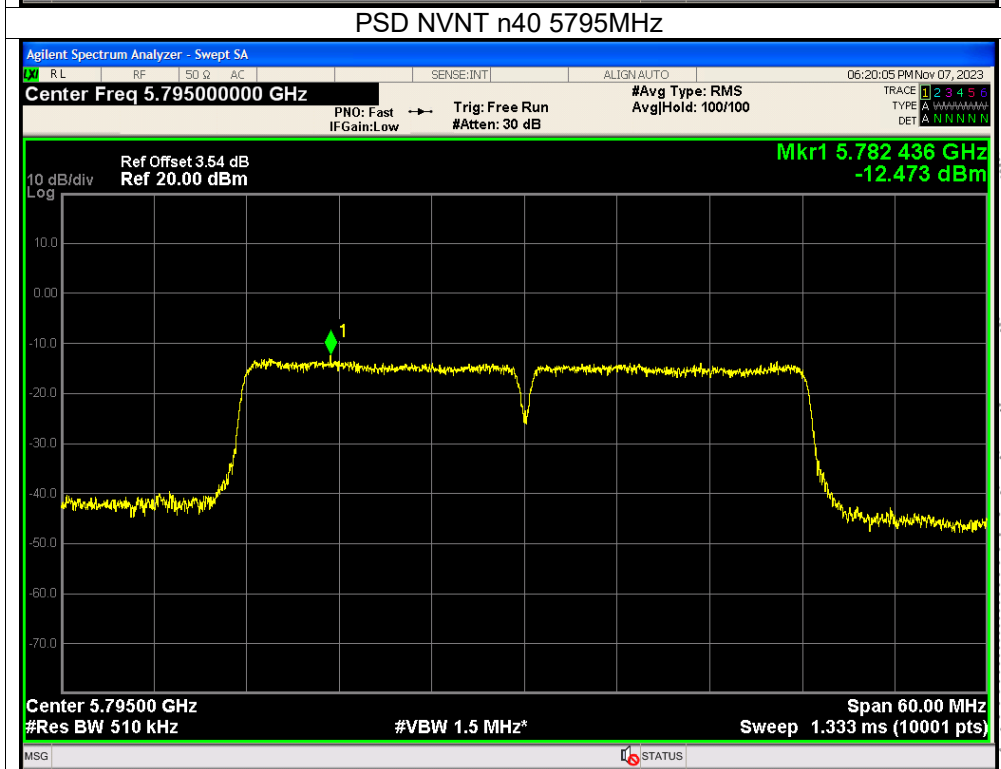
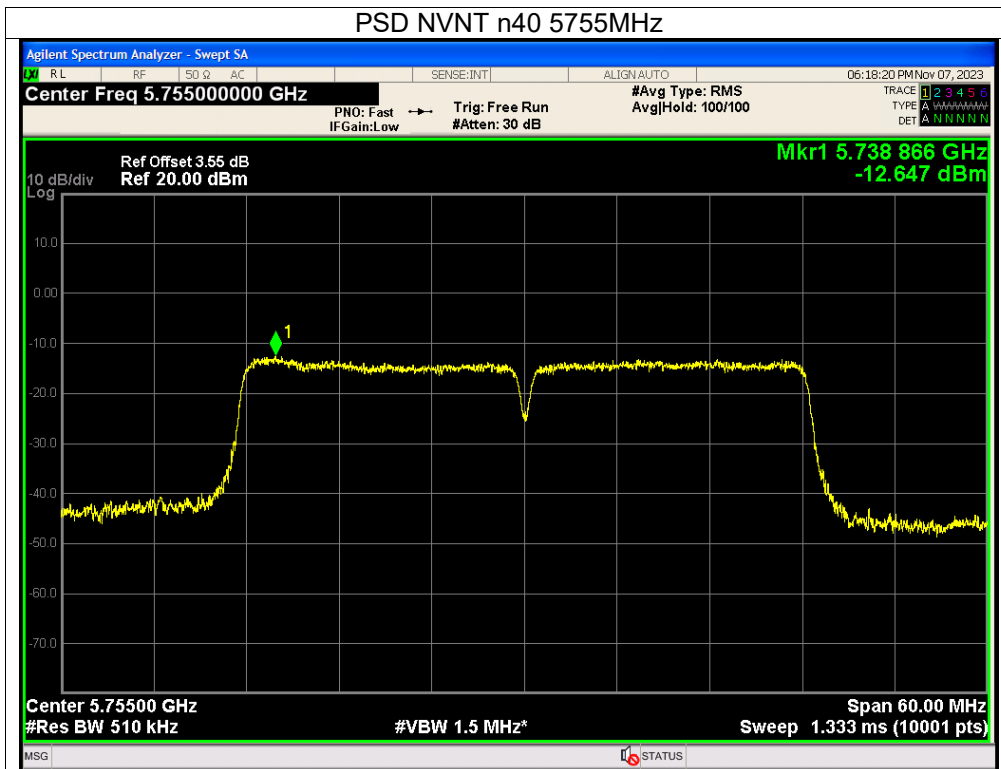


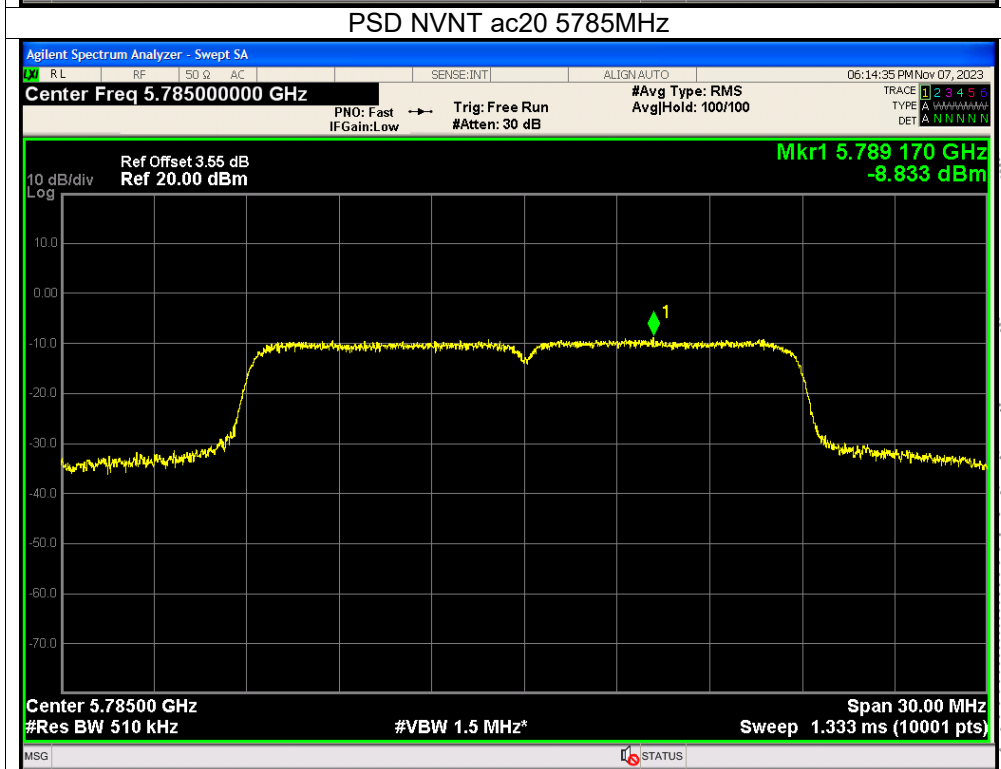
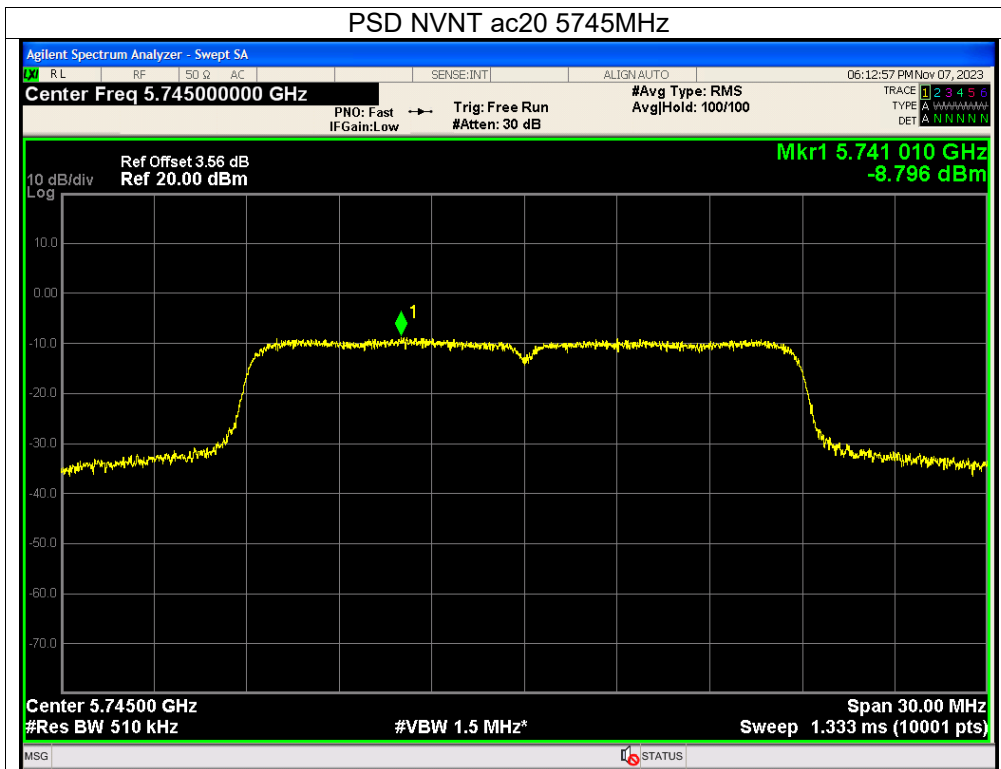


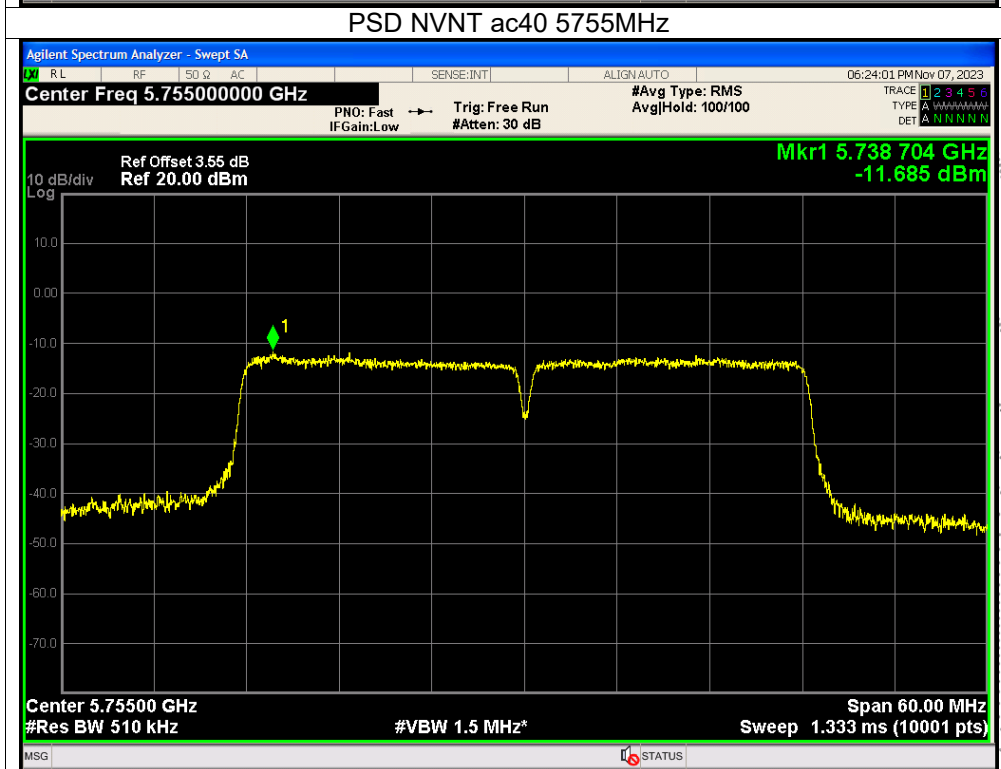
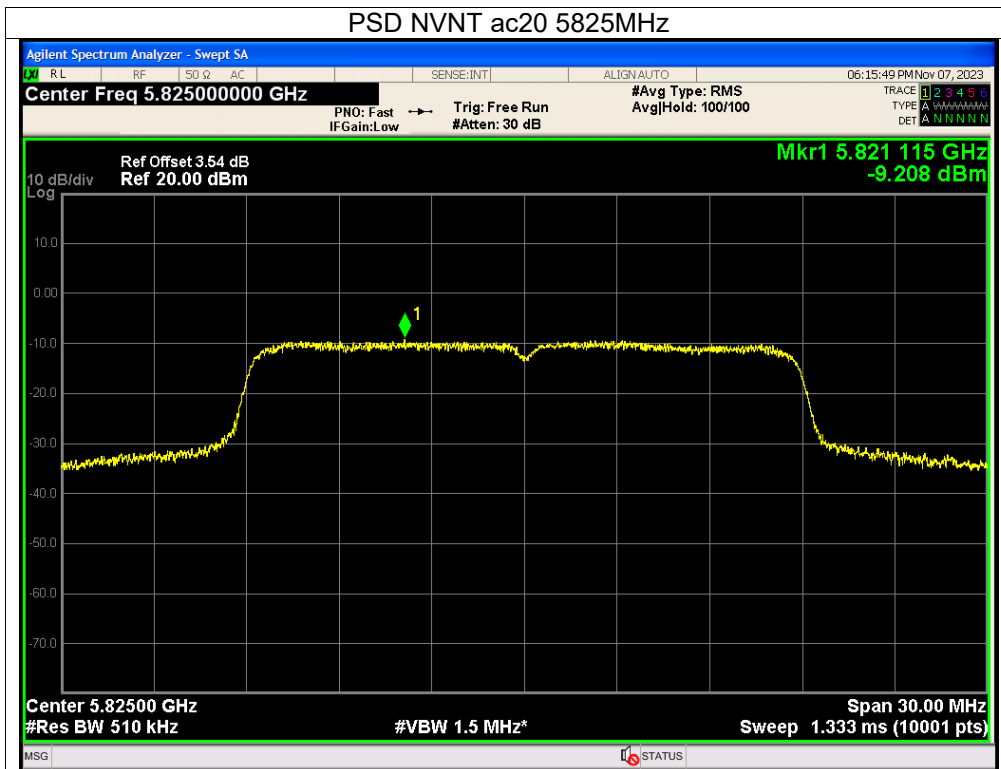


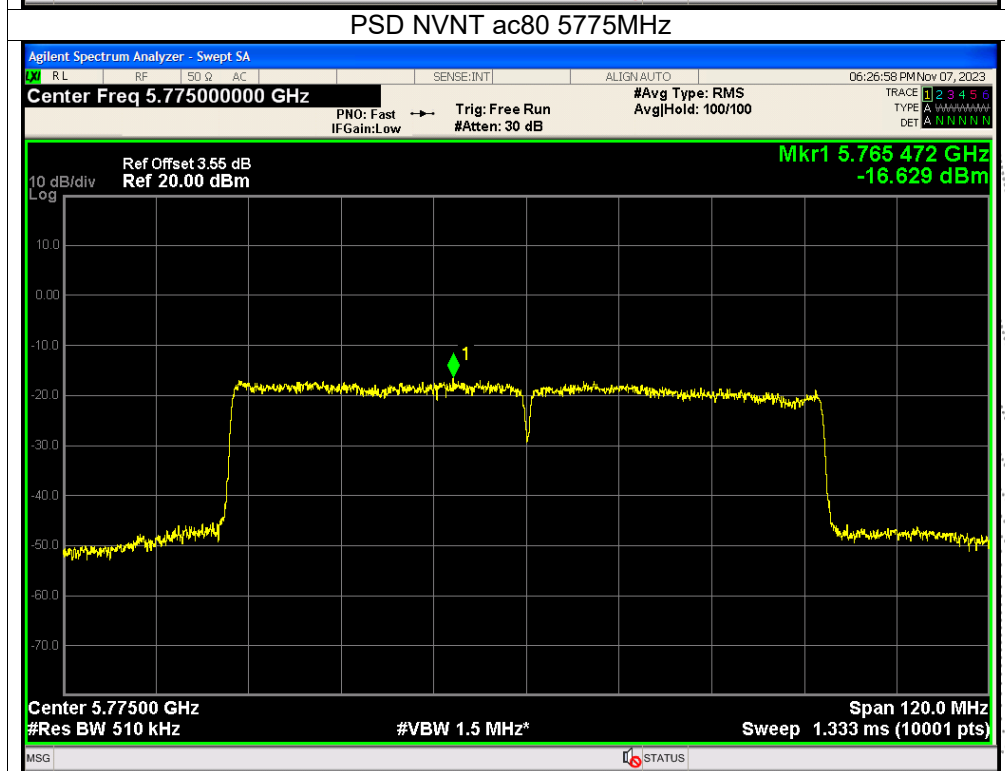
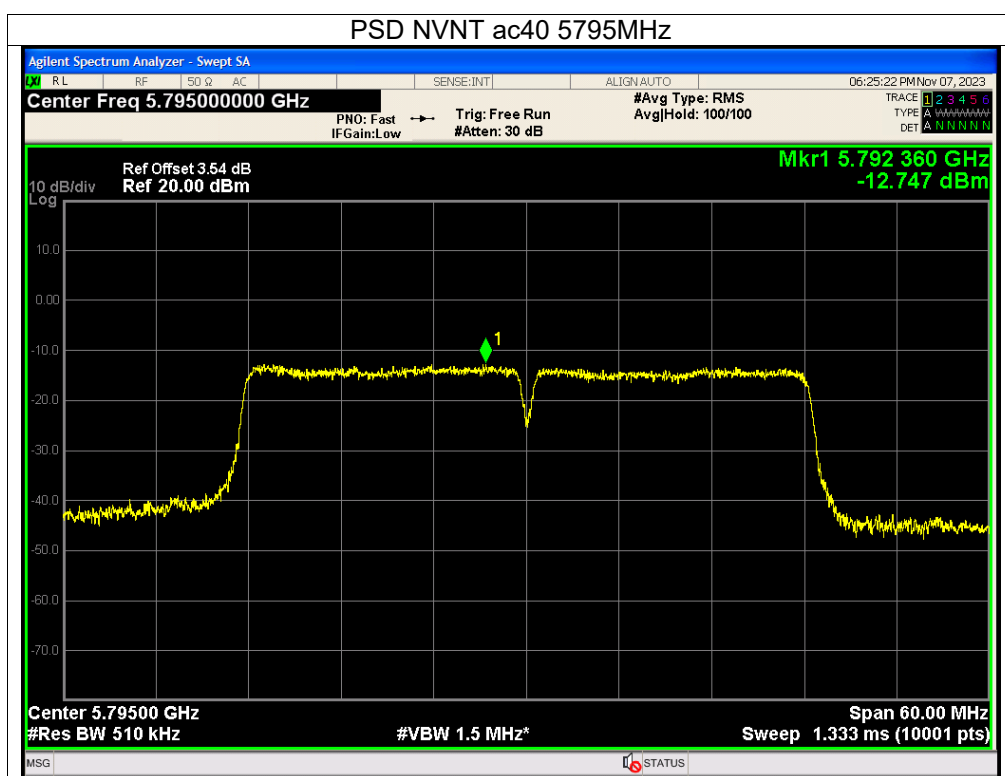






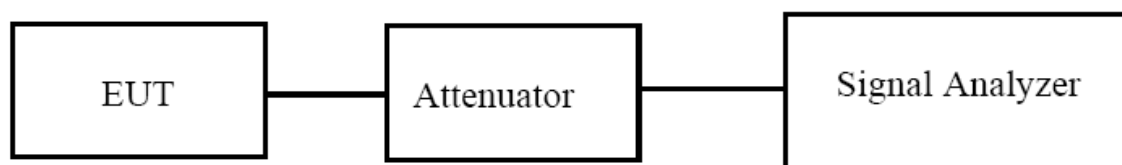






9. 26dB & 6dB & 99% Emission Bandwidth

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.

6. Allow the trace to stabilize.

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

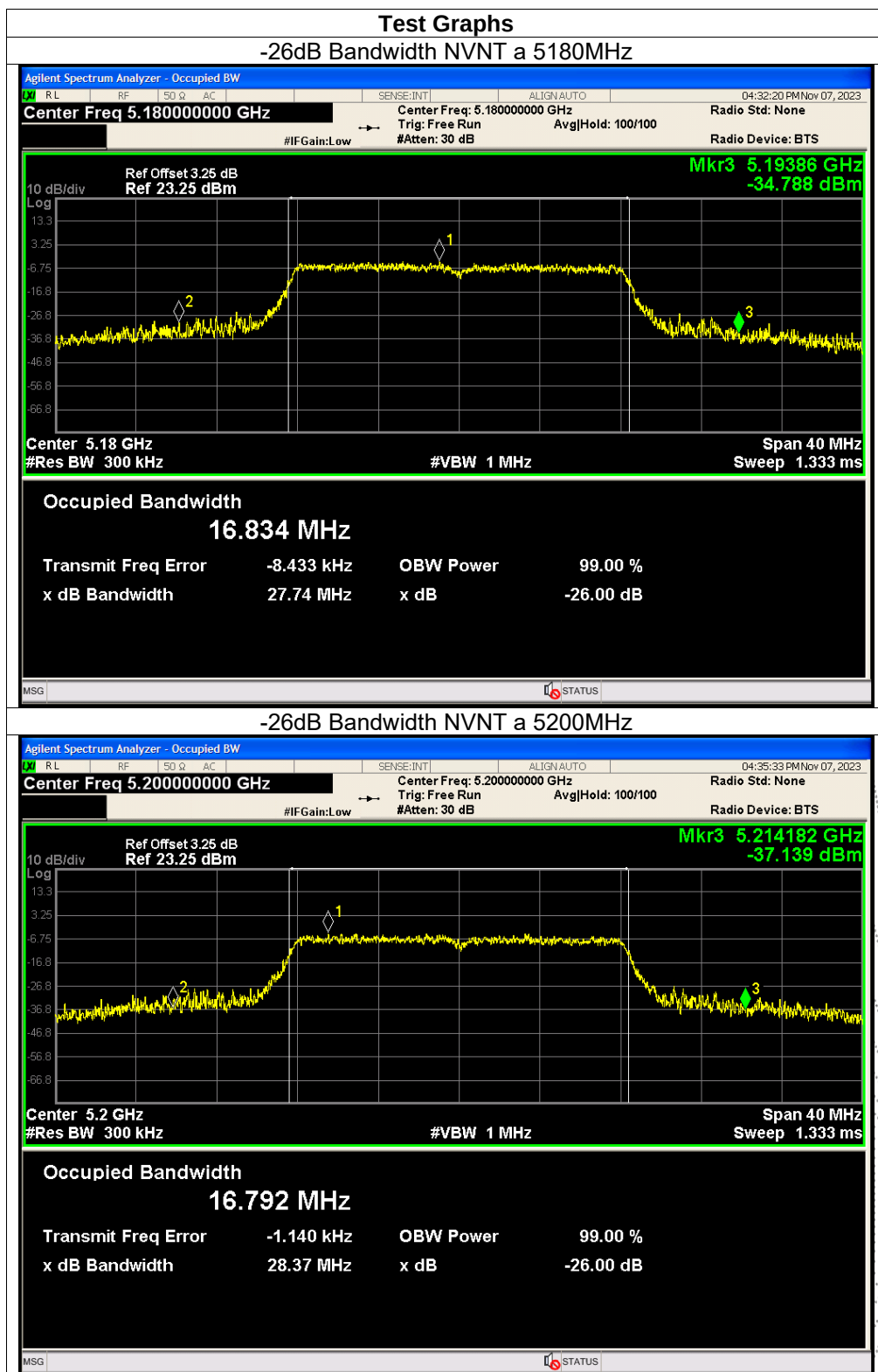
9.4 EUT Operating Conditions

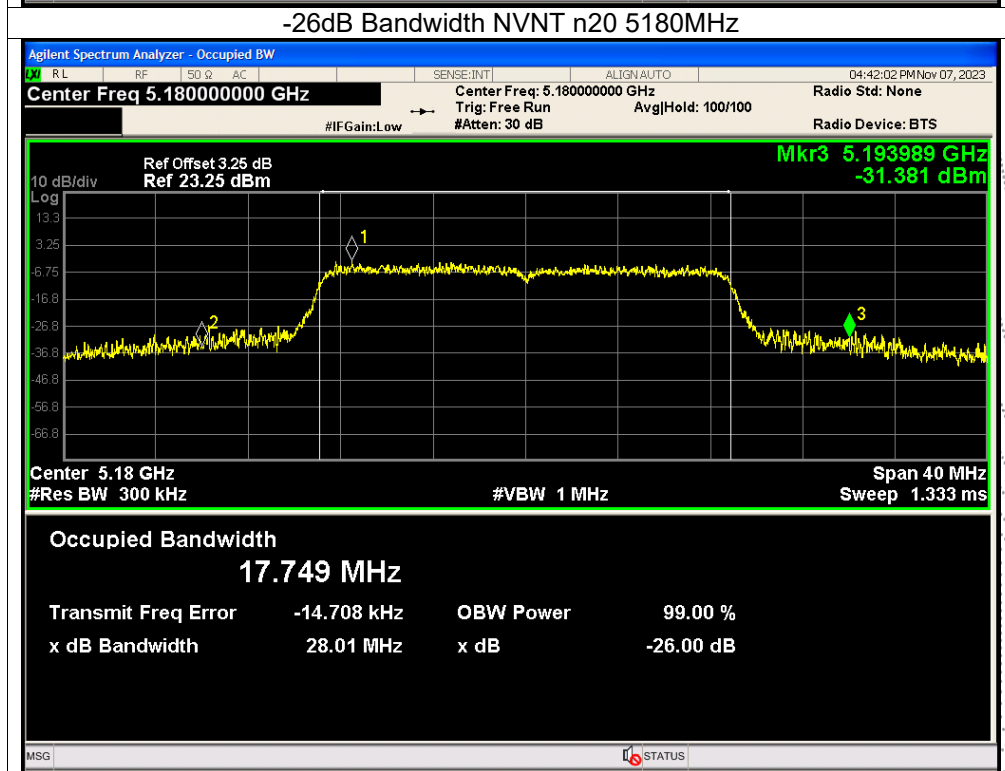
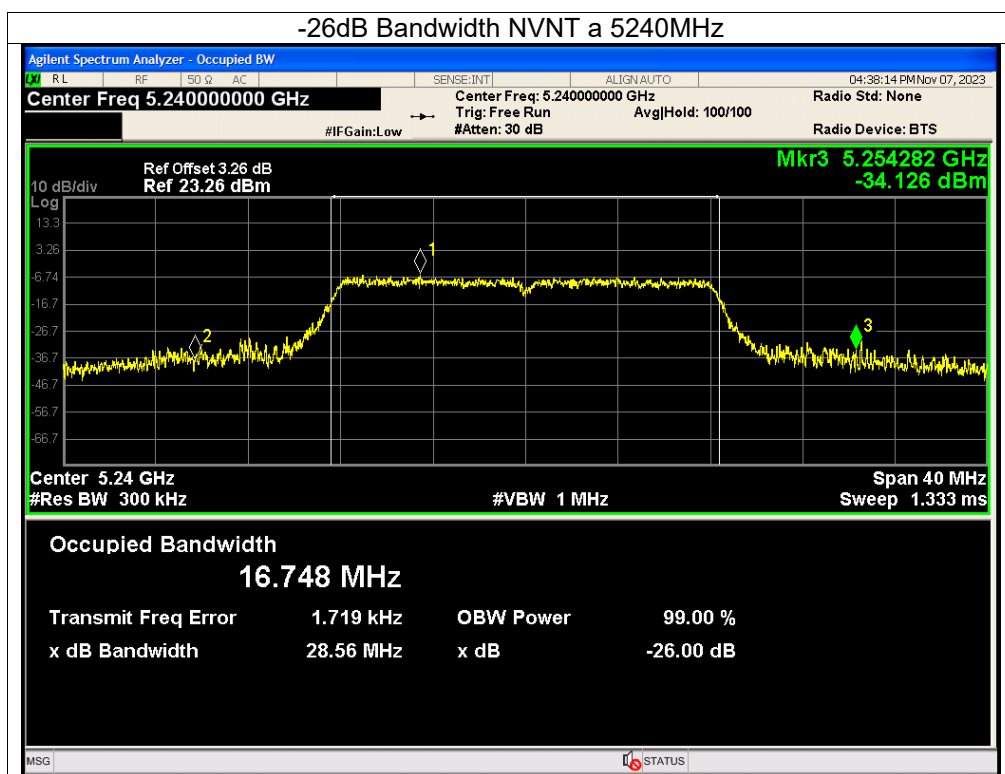
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

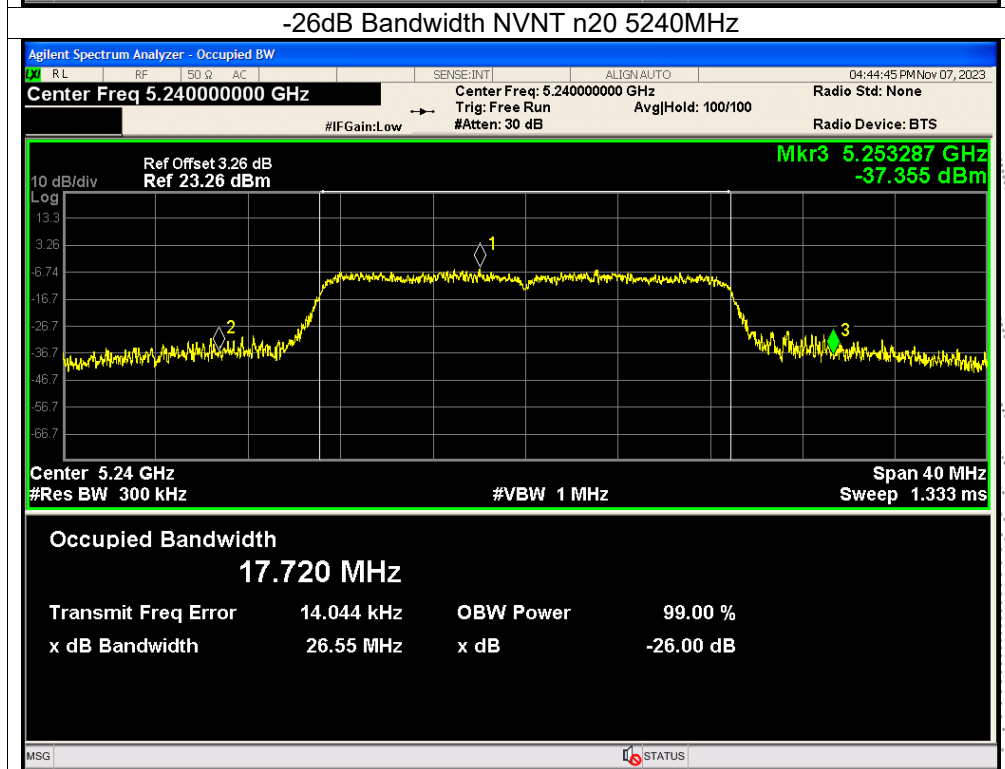
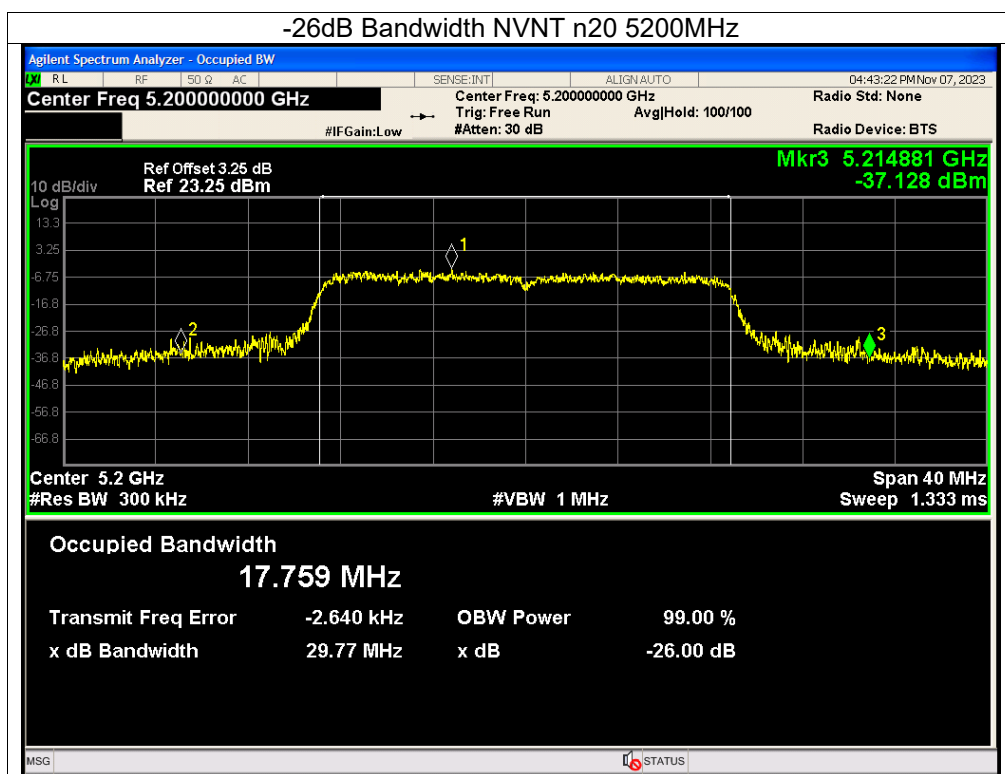
9.5 Test Result

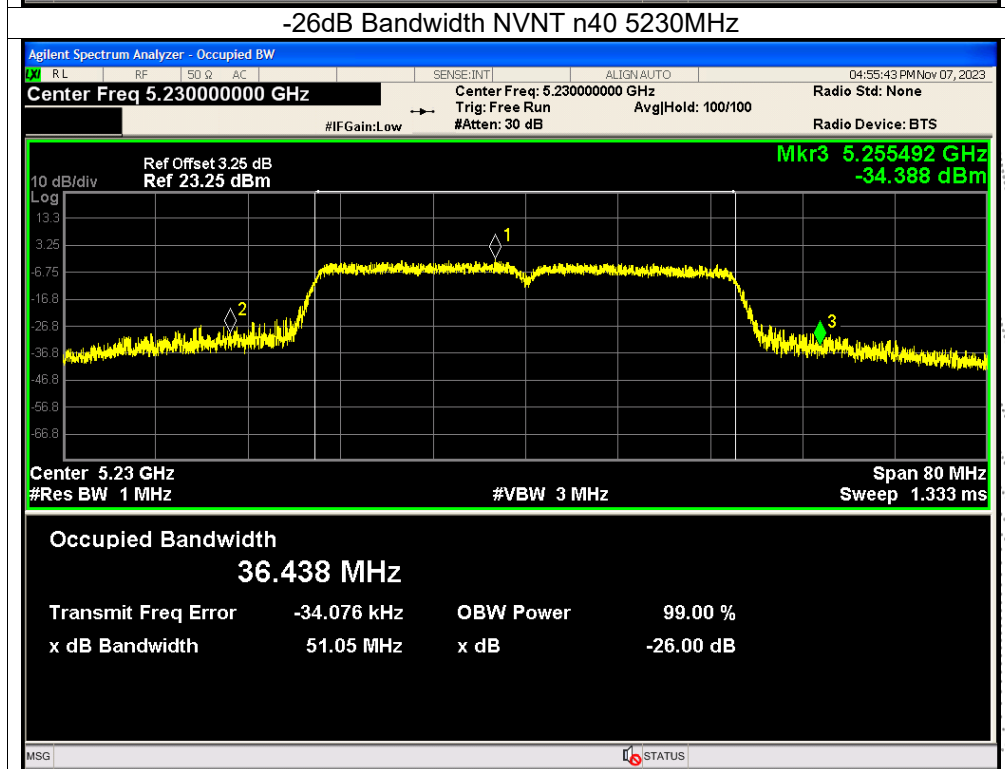
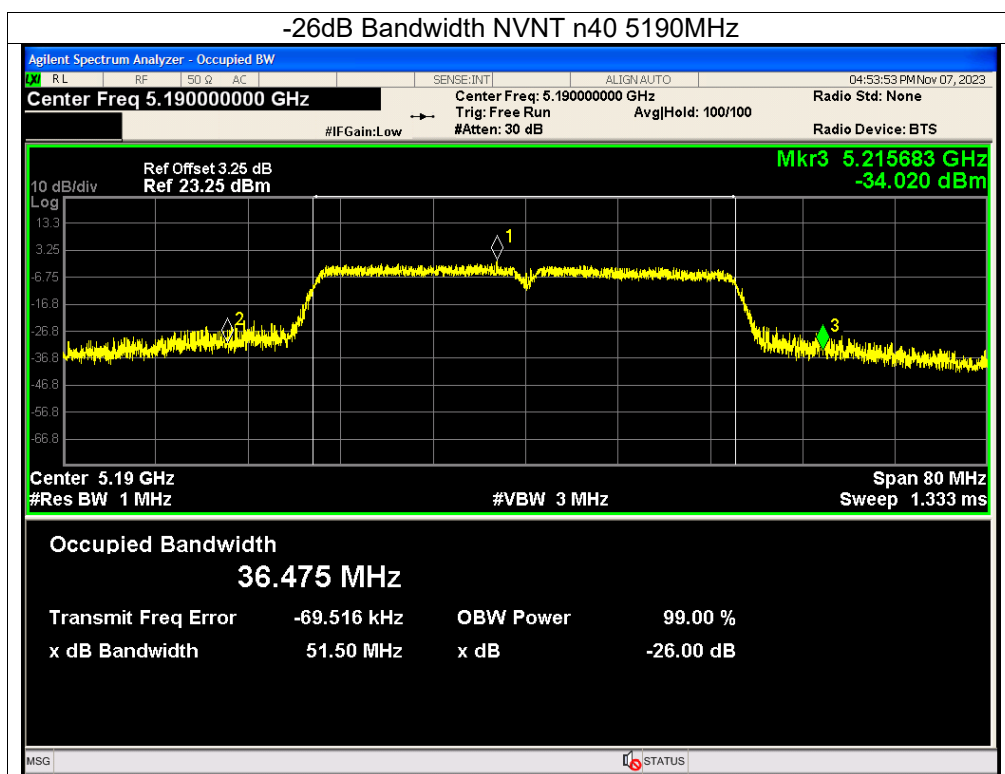
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 5V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

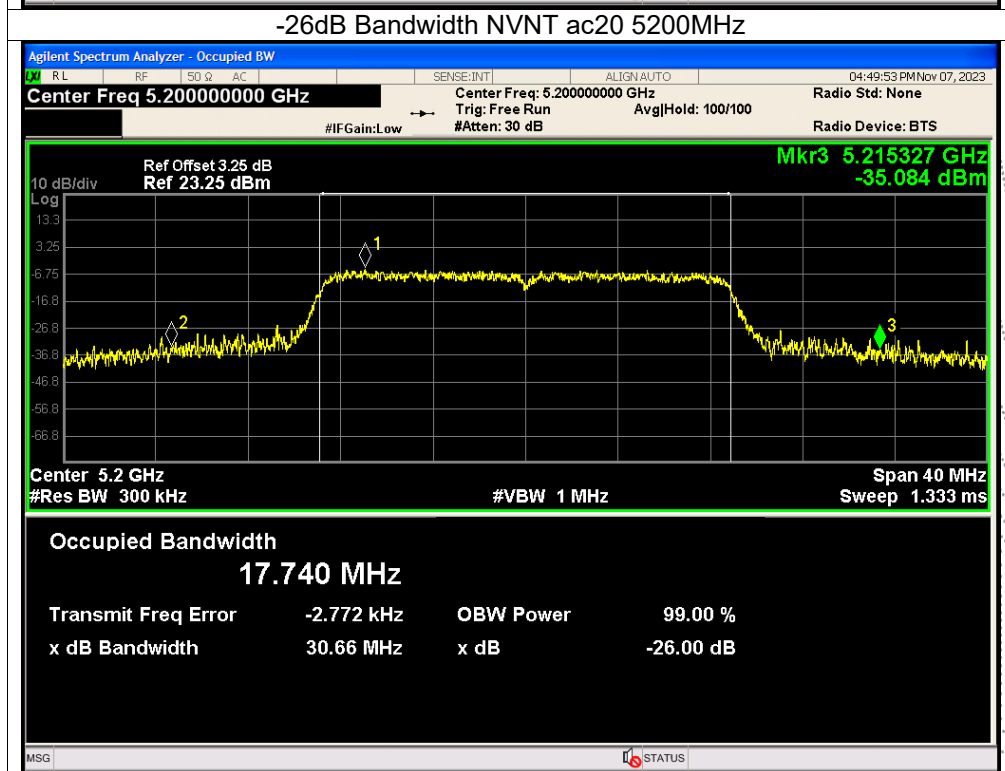
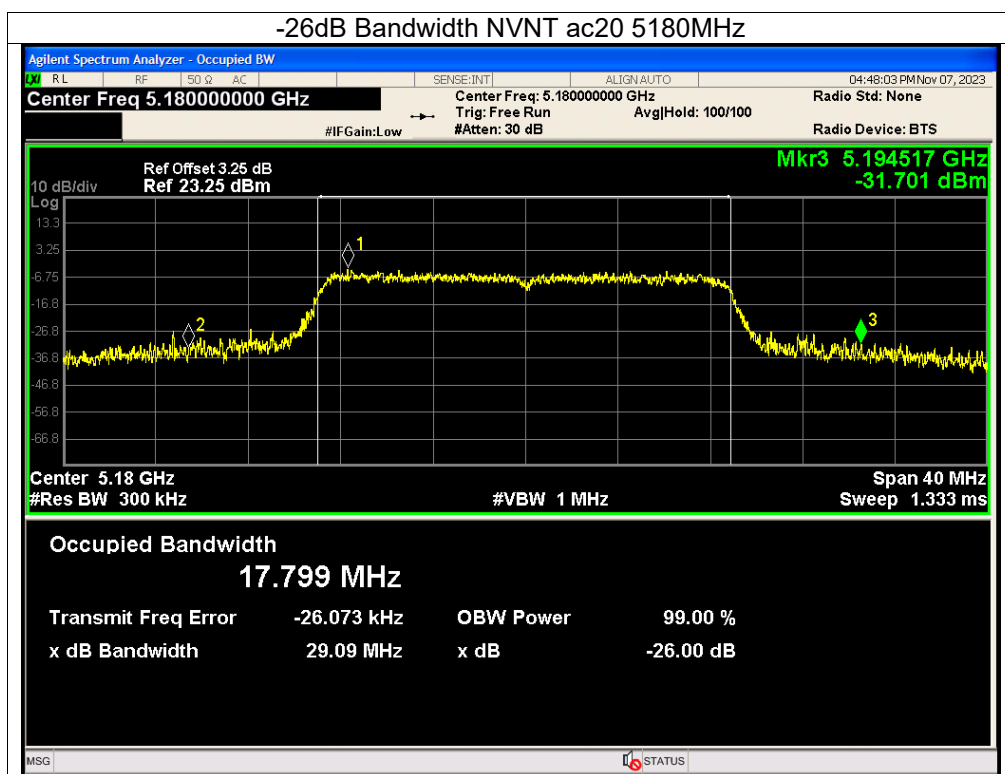
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	26dB bandwidth (MHz)	Limit -26 dB Bandwidth	Result
NVNT	a	5180	16.614	27.738	0.5	Pass
NVNT	a	5200	16.628	28.367	0.5	Pass
NVNT	a	5240	16.621	28.56	0.5	Pass
NVNT	n20	5180	17.667	28.007	0.5	Pass
NVNT	n20	5200	17.676	29.768	0.5	Pass
NVNT	n20	5240	17.639	26.546	0.5	Pass
NVNT	n40	5190	36.175	51.504	0.5	Pass
NVNT	n40	5230	36.224	51.051	0.5	Pass
NVNT	ac20	5180	17.674	29.086	0.5	Pass
NVNT	ac20	5200	17.652	30.659	0.5	Pass
NVNT	ac20	5240	17.674	28.815	0.5	Pass
NVNT	ac40	5190	36.141	57.01	0.5	Pass
NVNT	ac40	5230	36.18	51.718	0.5	Pass
NVNT	ac80	5210	75.565	87.671	0.5	Pass

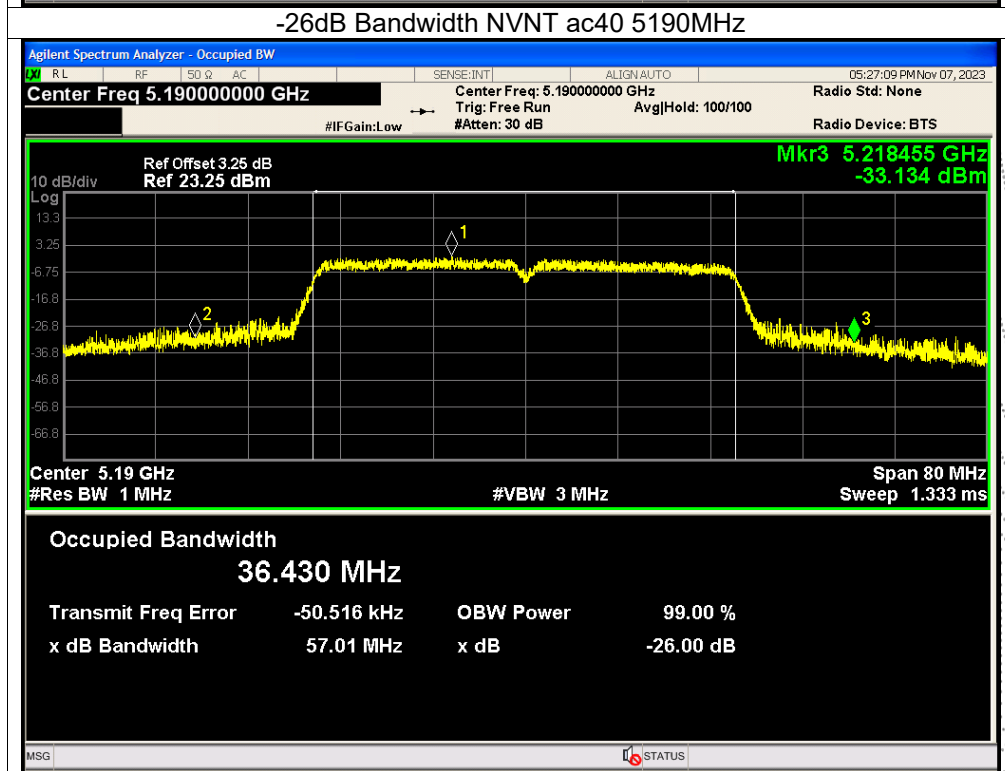
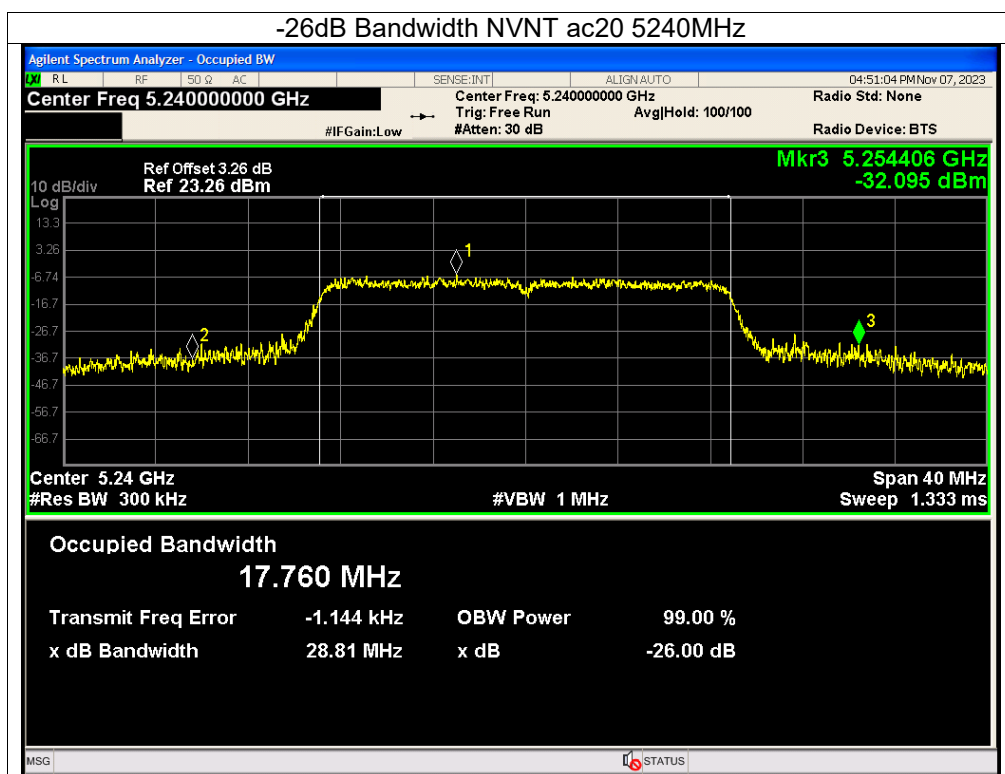


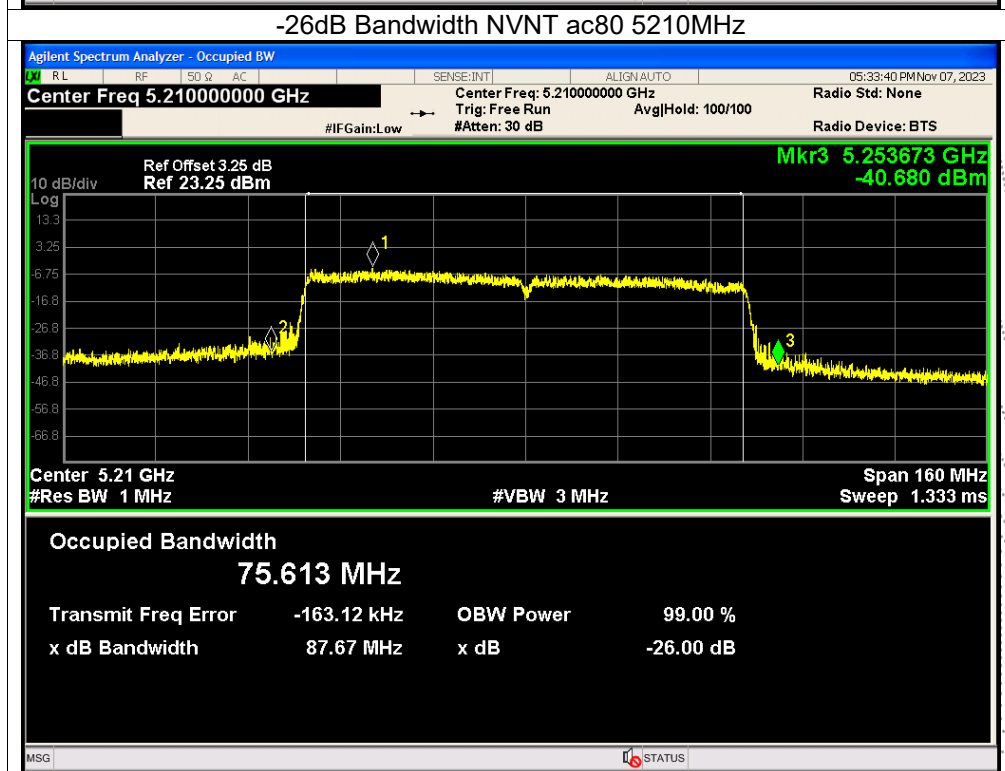
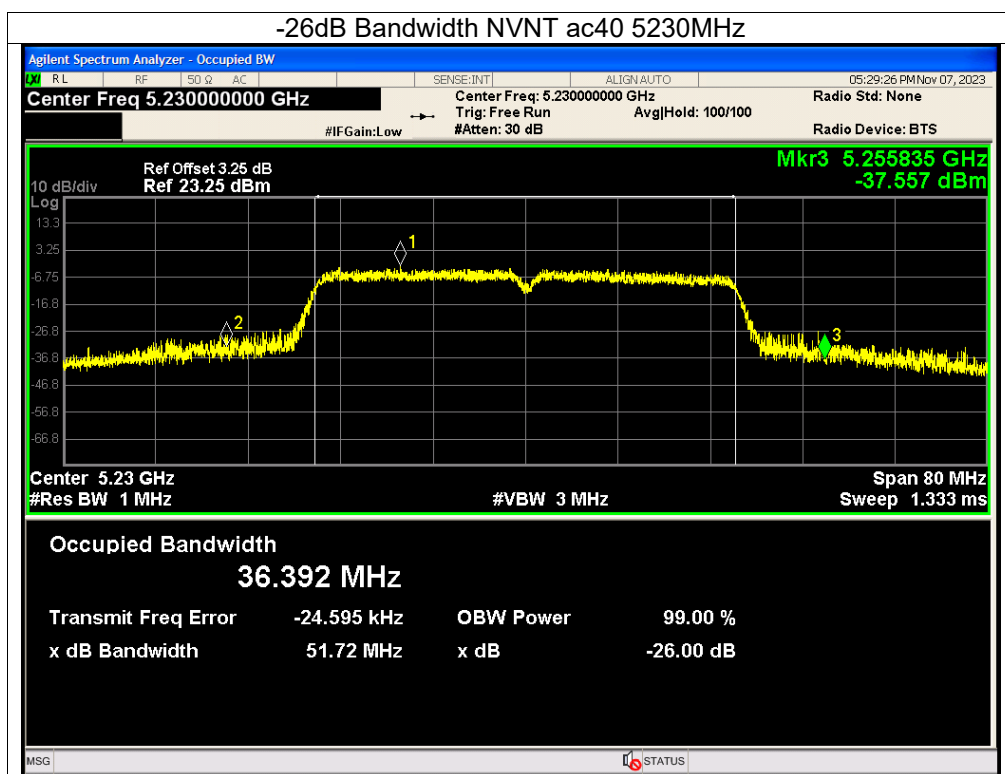


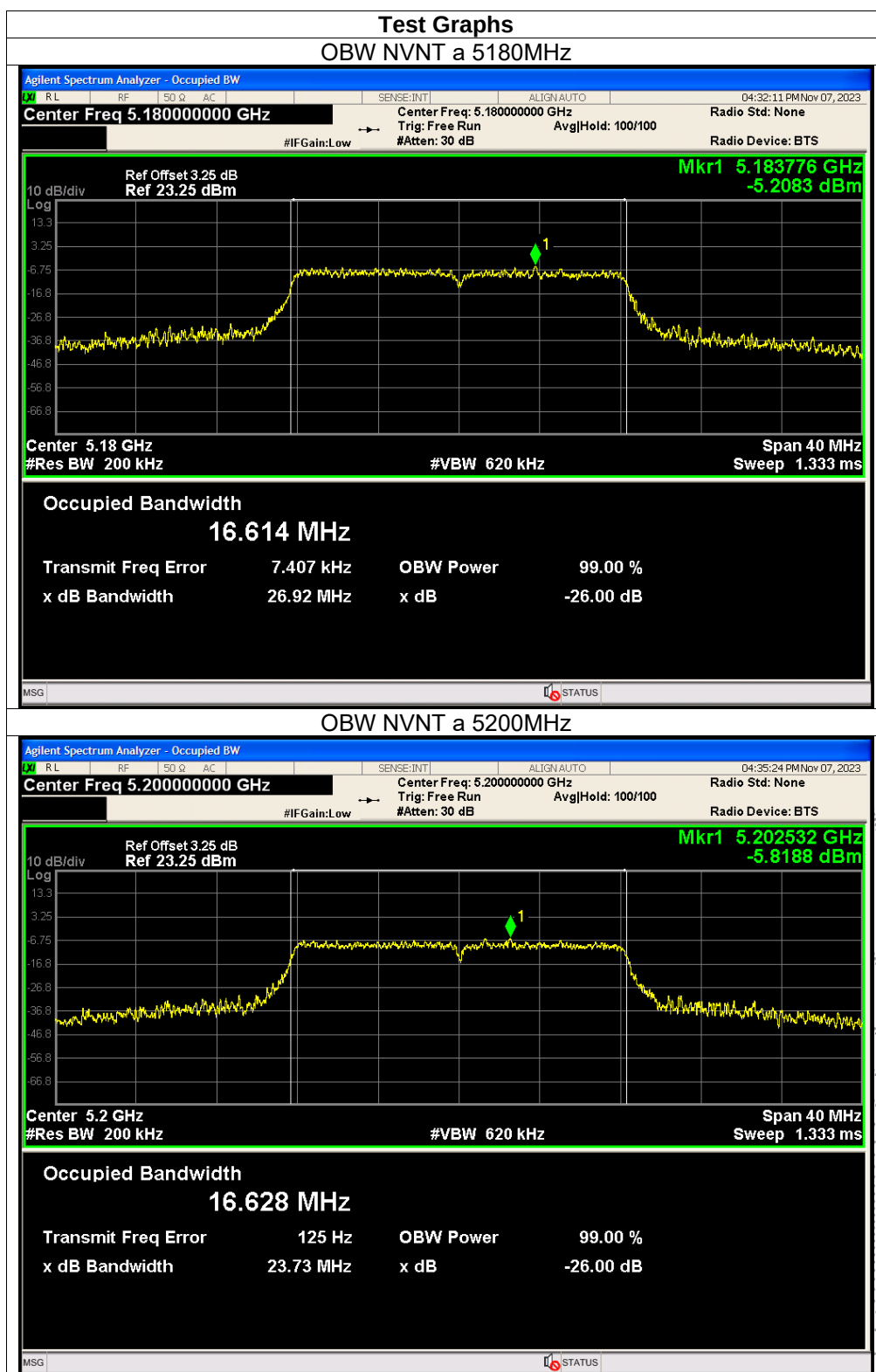


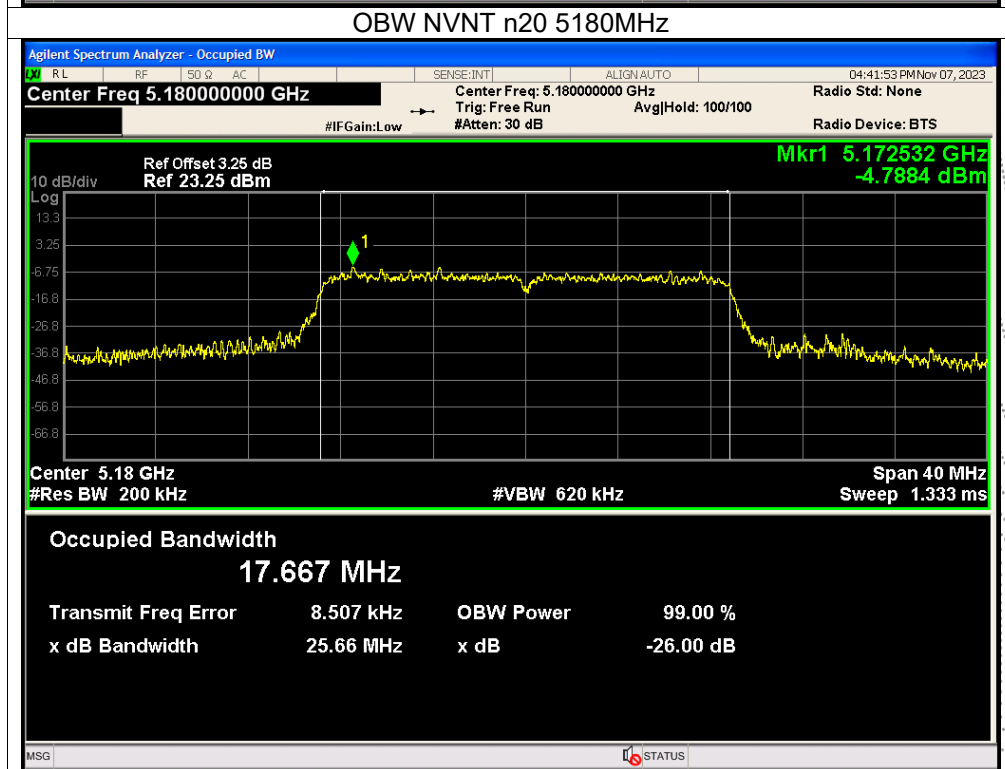
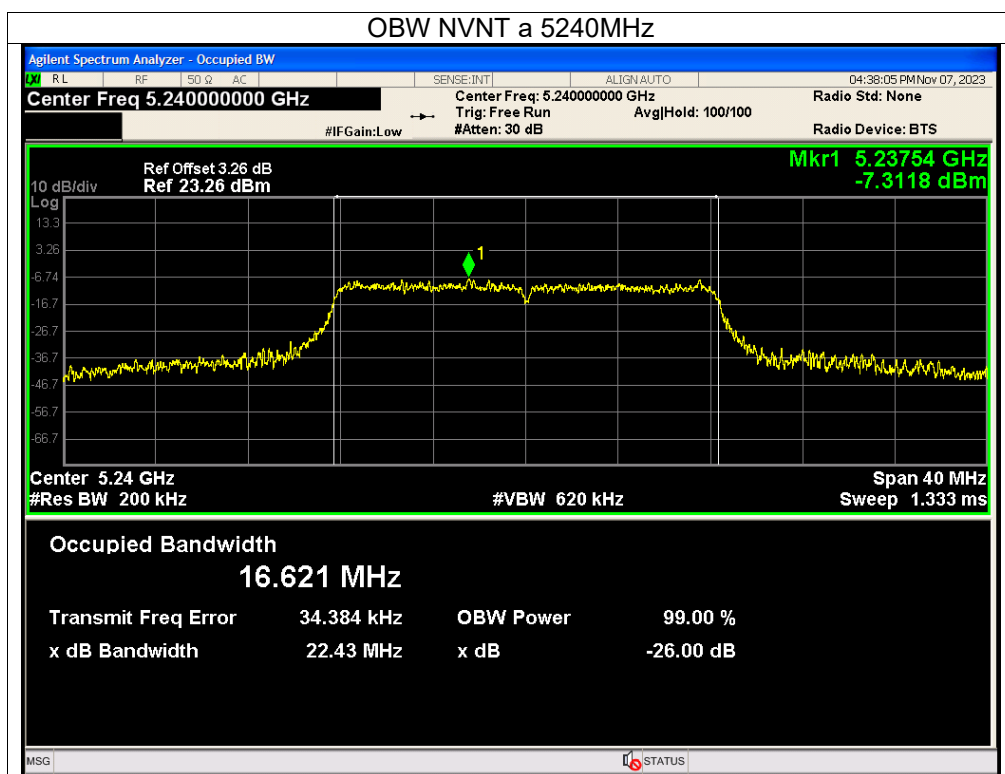


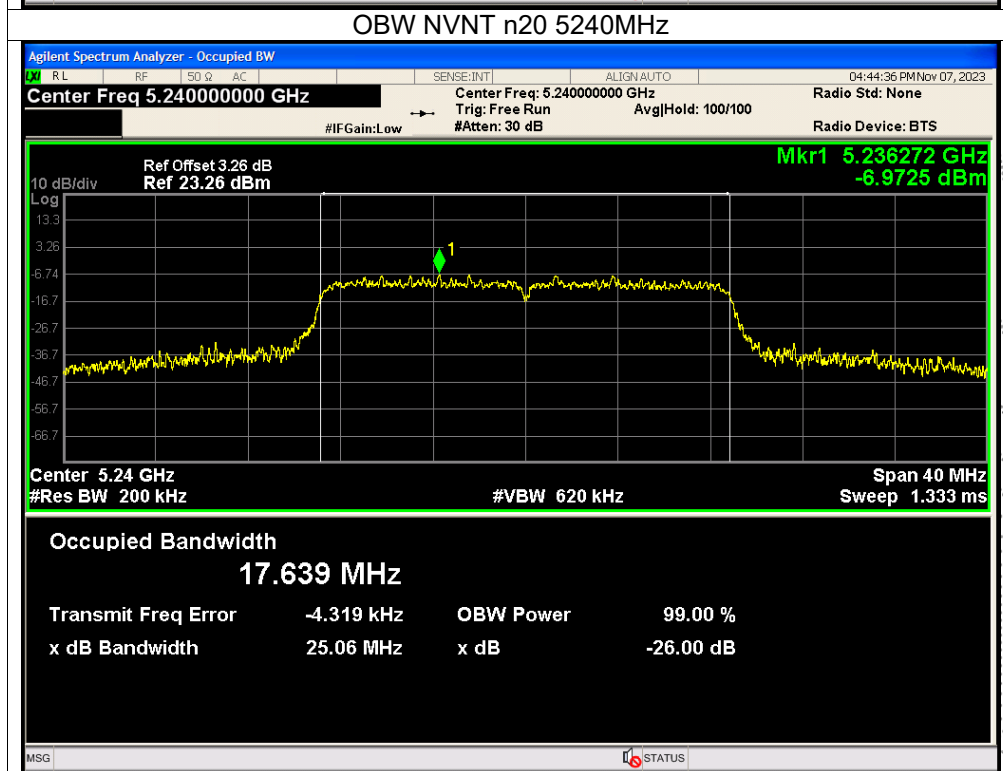
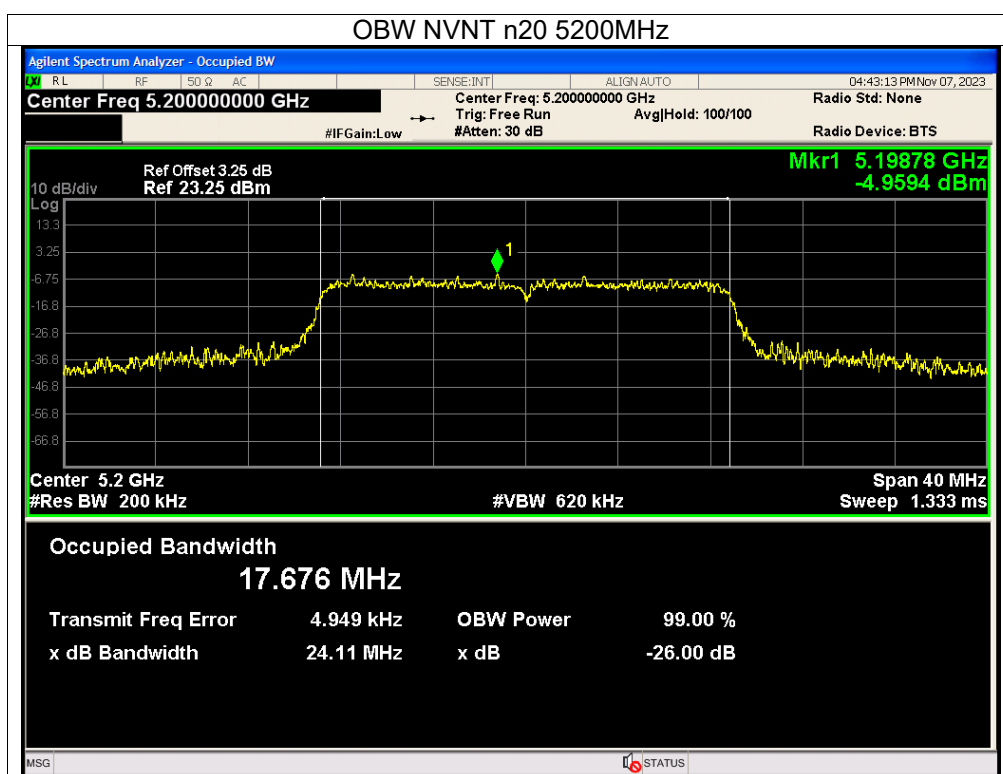


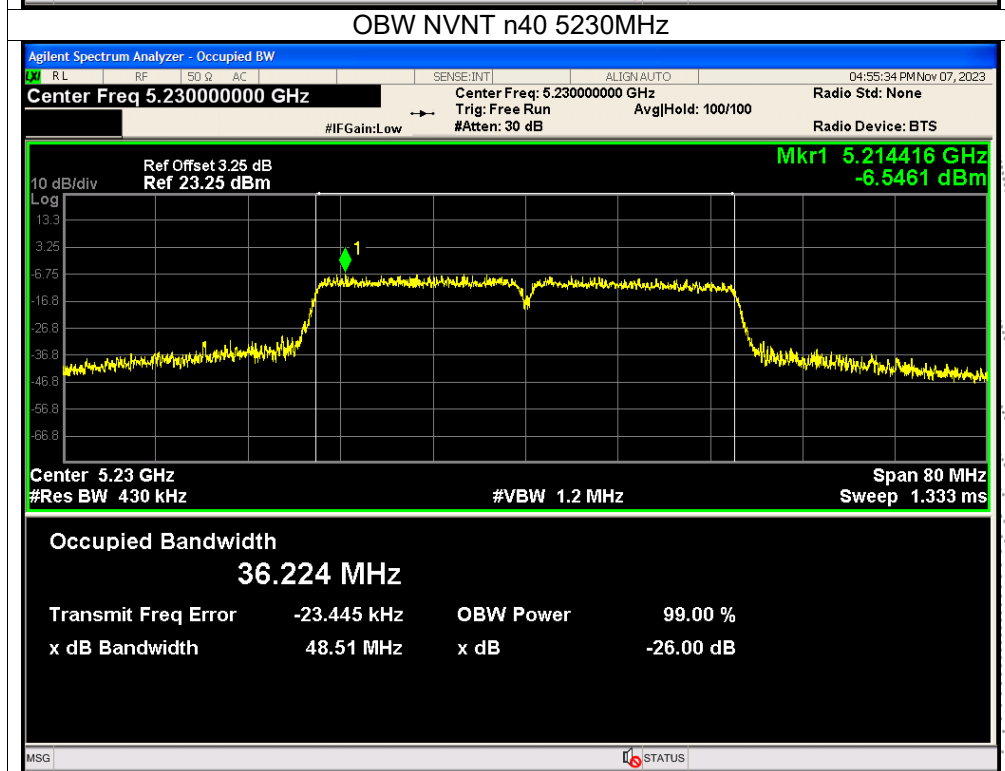
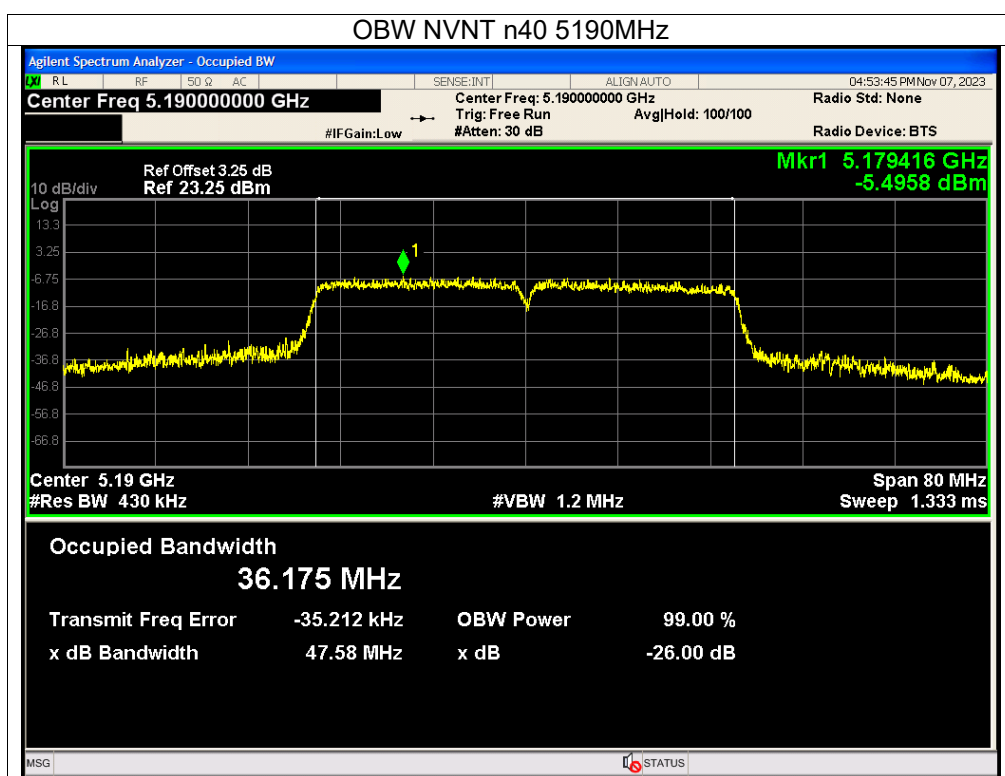


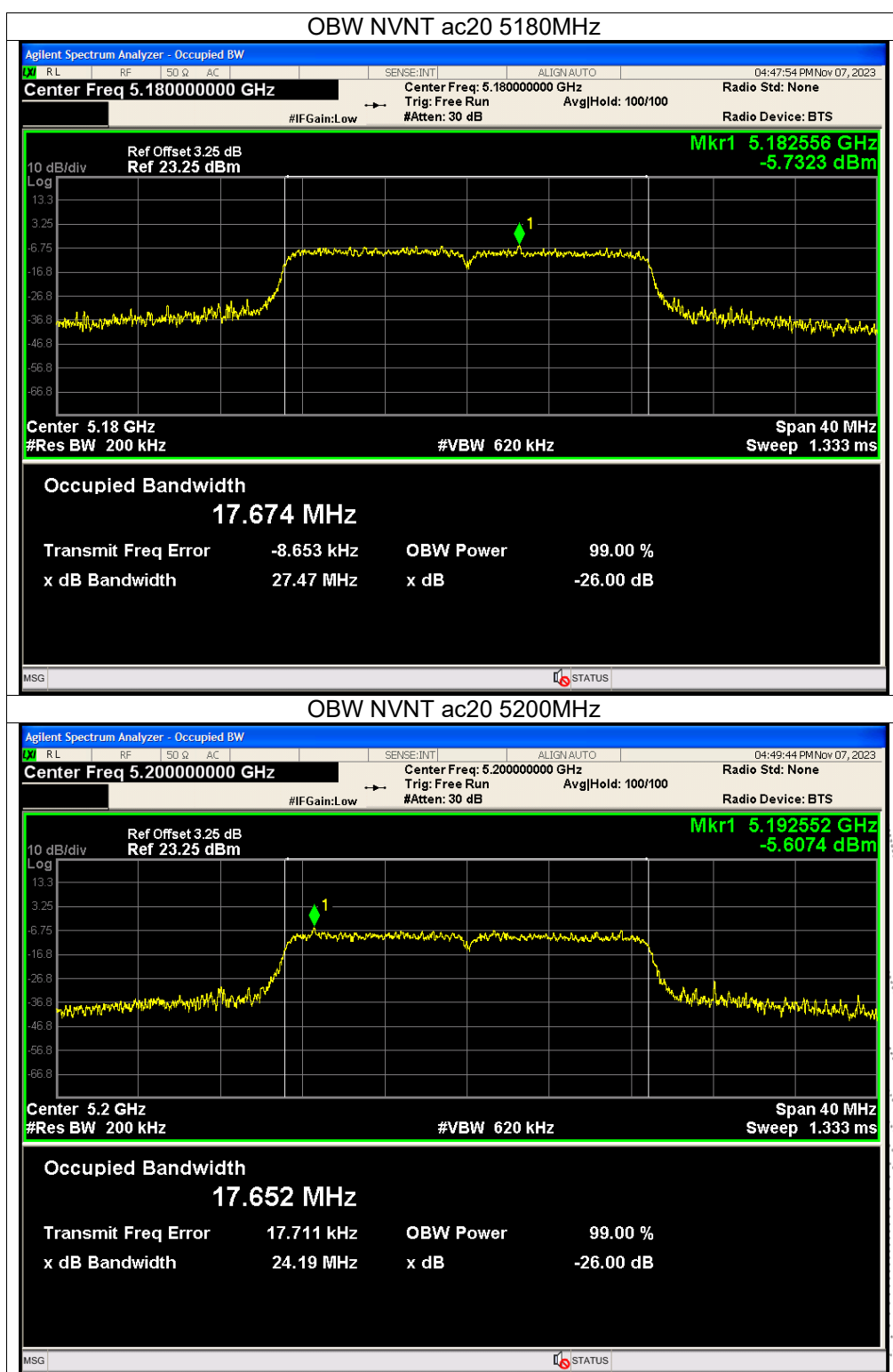


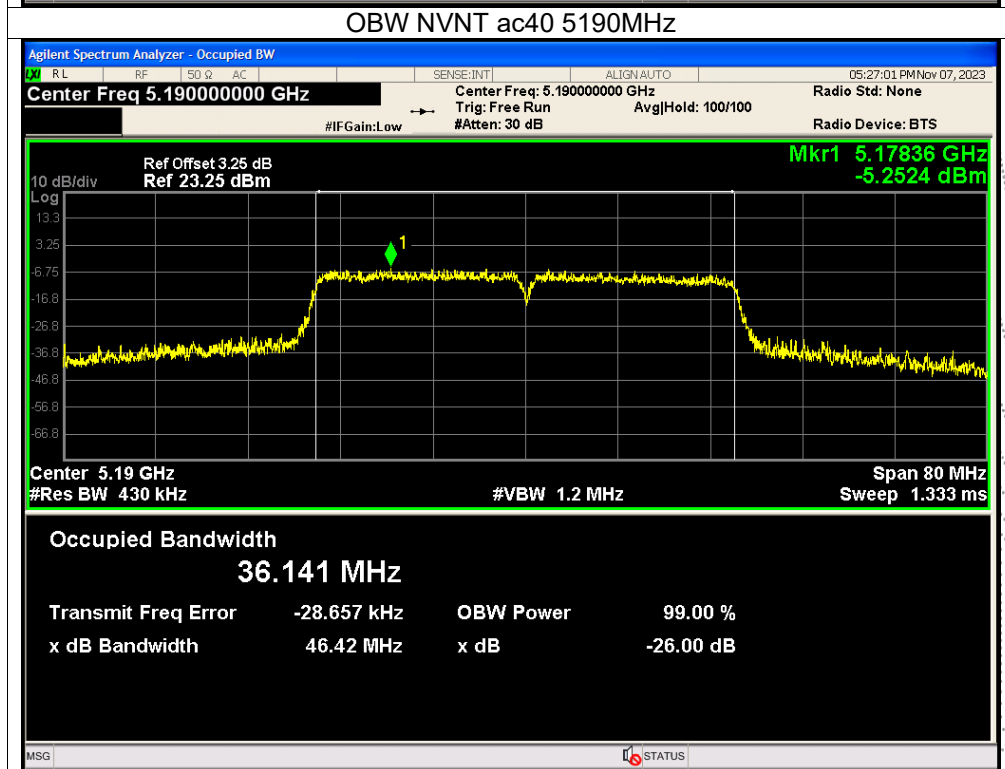
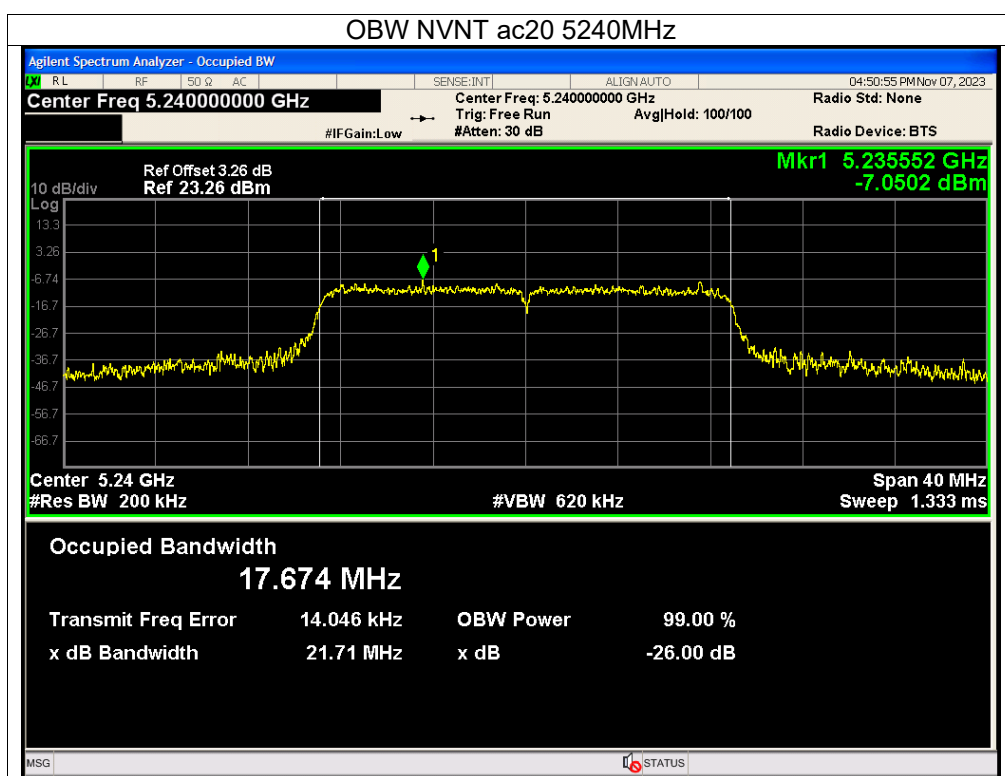


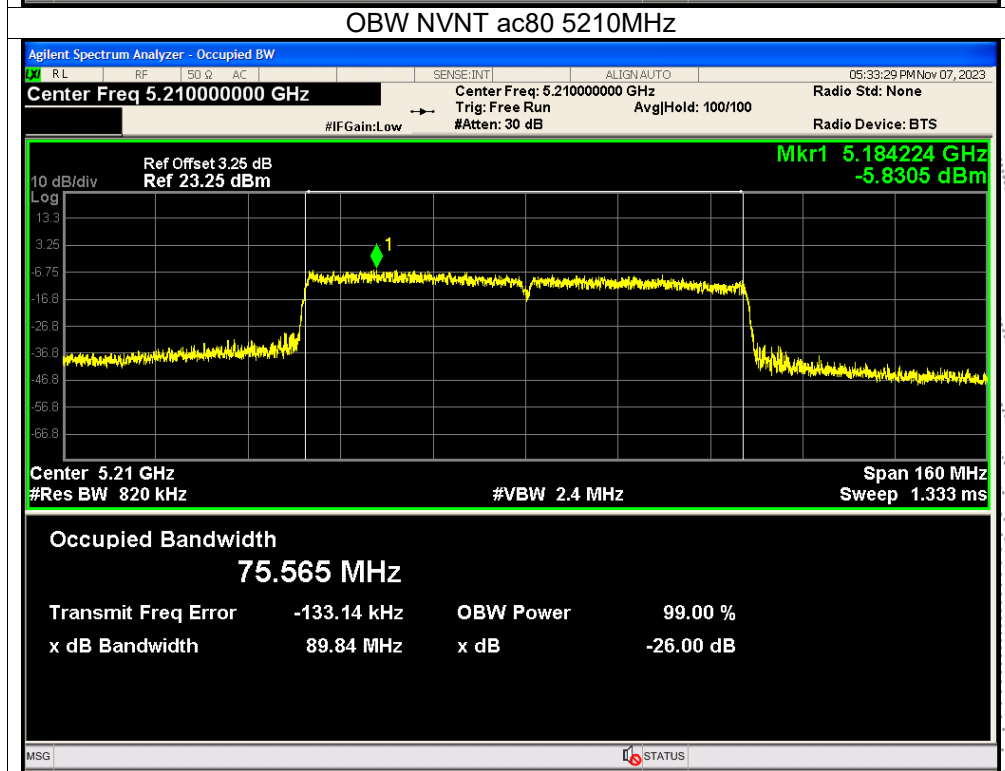
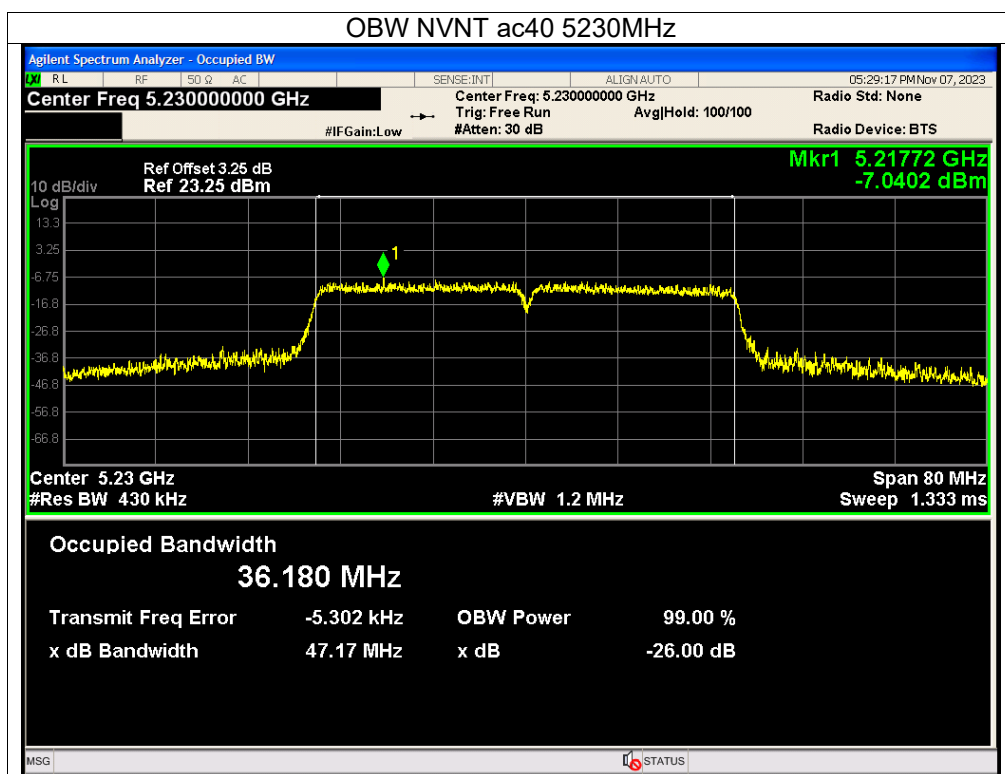












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 5V
Test Mode:	TX Frequency U-NII-3(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth MHz	Result
NVNT	a	5745	18.038	16.312	≥500	Pass
NVNT	a	5785	18.102	16.315	≥500	Pass
NVNT	a	5825	18.483	16.328	≥500	Pass
NVNT	n20	5745	18.473	17.382	≥500	Pass
NVNT	n20	5785	18.638	17.13	≥500	Pass
NVNT	n20	5825	19.03	17.131	≥500	Pass
NVNT	n40	5755	36.407	36.003	≥500	Pass
NVNT	n40	5795	36.522	36.029	≥500	Pass
NVNT	ac20	5745	18.31	17.131	≥500	Pass
NVNT	ac20	5785	18.74	16.959	≥500	Pass
NVNT	ac20	5825	18.685	17.012	≥500	Pass
NVNT	ac40	5755	36.412	35.864	≥500	Pass
NVNT	ac40	5795	36.498	36.025	≥500	Pass
NVNT	ac80	5775	75.572	75.532	≥500	Pass

