

TEST REPORT

Report No.: BCTC2406397844-3E

Applicant: DongGuan Consung Smart Technology CO.,LTD

Product Name: Mini PC

Test Model: ICB88

Tested Date: 2024-06-05 to 2024-06-08

Issued Date: 2024-07-30

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AZ6H-ICB88

Product Name: Mini PC

Trademark: BIENVIDA, WCKUN, TOPMONITOR, CONSUNG

Model/Type Reference: ICB88
AB07, ICB12, ANB88, ANB12

Prepared For: DongGuan Consung Smart Technology CO.,LTD

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Manufacturer: DongGuan Consung Smart Technology CO.,LTD

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Prepared By: Shenzhen BCTC Testing Co., Ltd.

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Sample Received Date: 2024-06-05

Sample Tested Date: 2024-06-05 to 2024-06-08

Issue Date: 2024-07-30

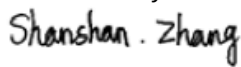
Report No.: BCTC2406397844-3E

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

Test Results: PASS

Remark: This is WIFI-5GHz band radio test report.

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

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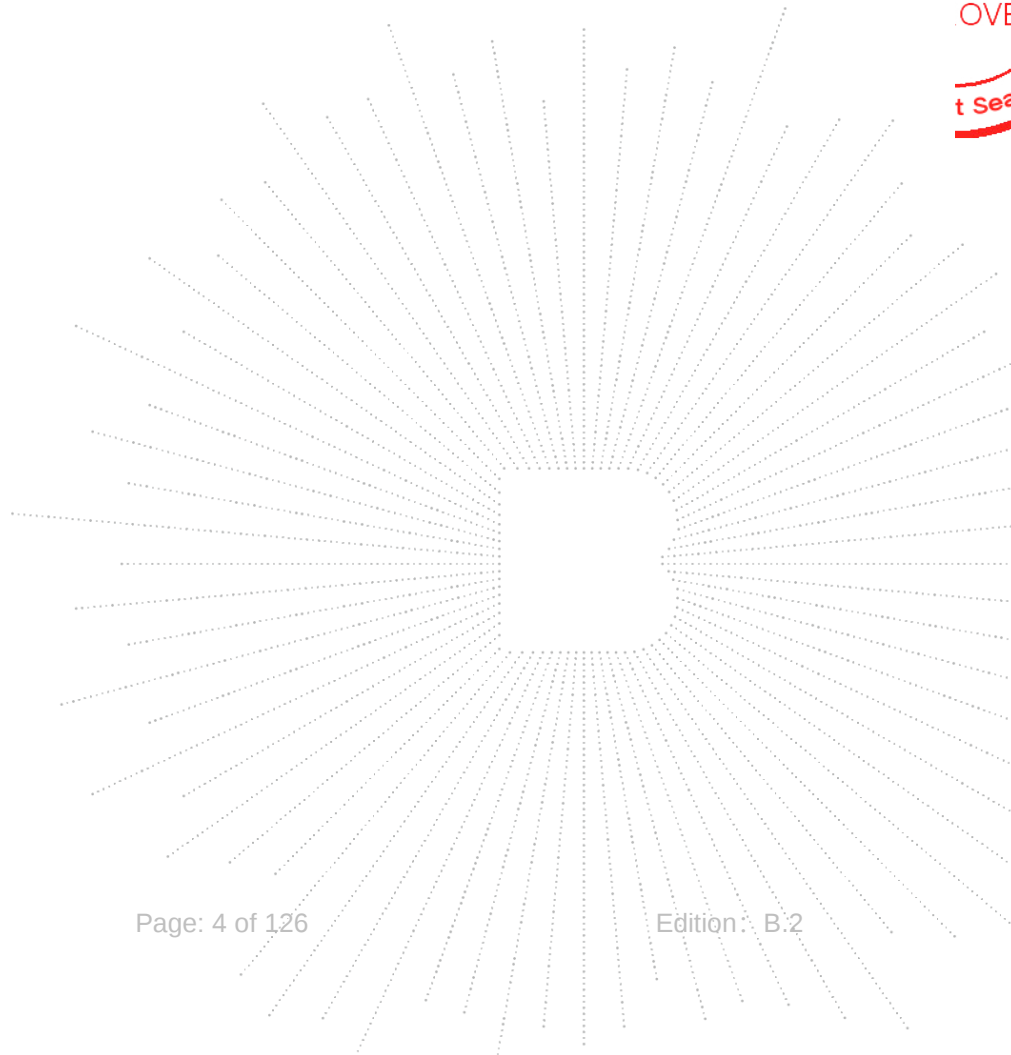
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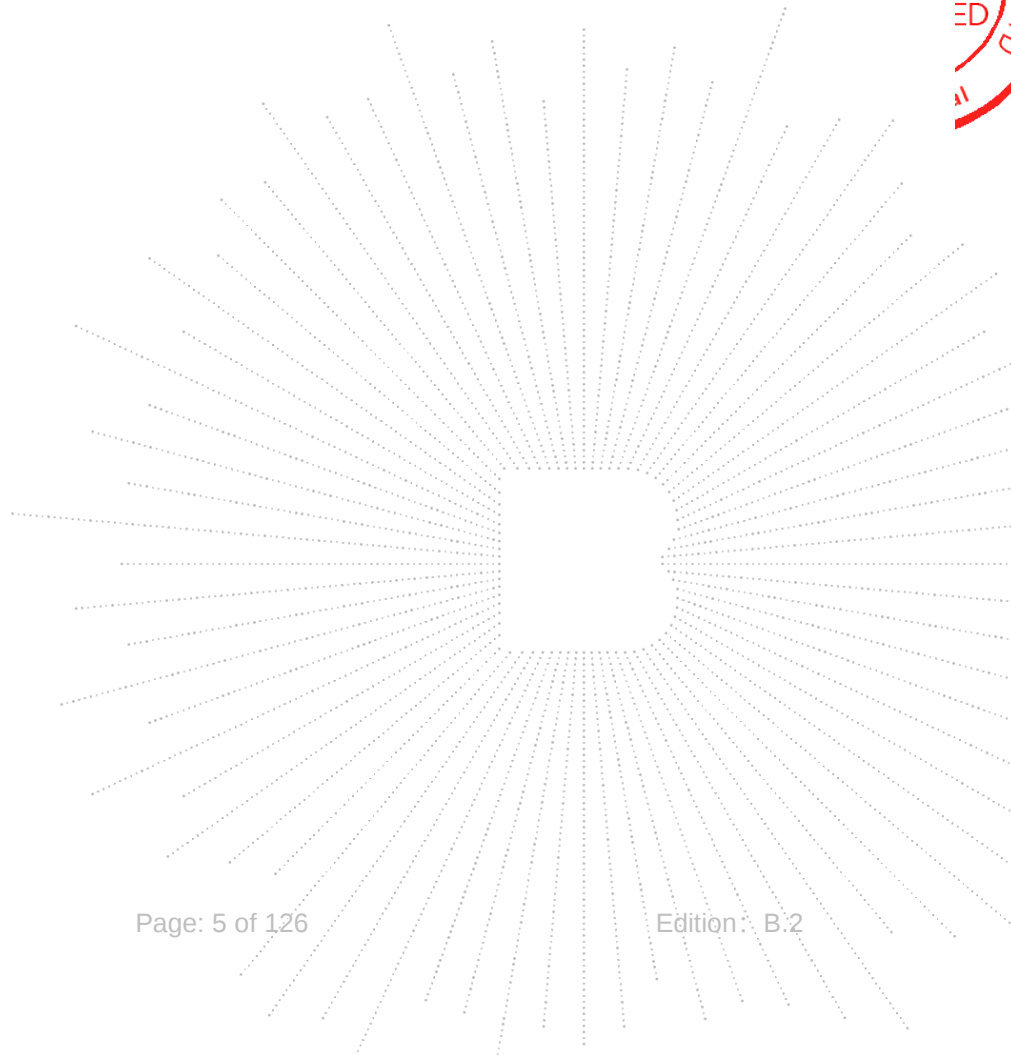
(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2406397844-3E	2024-07-30	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

1	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.

CO., LTD.

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

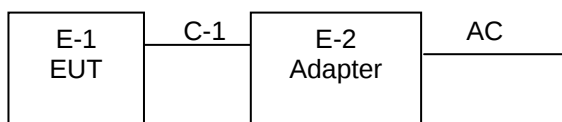
4.1 Product Information

Model/Type Reference:	ICB88 AB07, ICB12, ANB88, ANB12
Model Differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported:	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac20; 5190-5230MHz for 802.11n(HT40)/ac40; 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11a/n(HT40)/ac40; 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:	5.1G: 4.97 dBi 5.8G: 3.96 dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 19V from adapter
Adapter Information:	Model: JHD-AP065U-190342BA-A Input: 100-240V~50/60Hz 1.5A Output: 19.0V ===3420mA

4.2 Test Setup Configuration

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

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Mini PC	BIENVIDA, WCKUN, TOPMONITOR, CONSUNG	ICB88	AB07, ICB12, ANB88, ANB12	EUT
E-2	Adapter	N/A	JHD-AP065U-190 342BA-A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	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

Frequency and Channel list for 802.11a/n /ac (5180-5240MHz):

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)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n /ac (5745-5825MHz):

802.11a/n/ac(20MHz) 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)	Channel	Frequency (MHz)
151	5755	159	5795	-	-	-	-

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

Note: 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	REALTEK		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

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

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

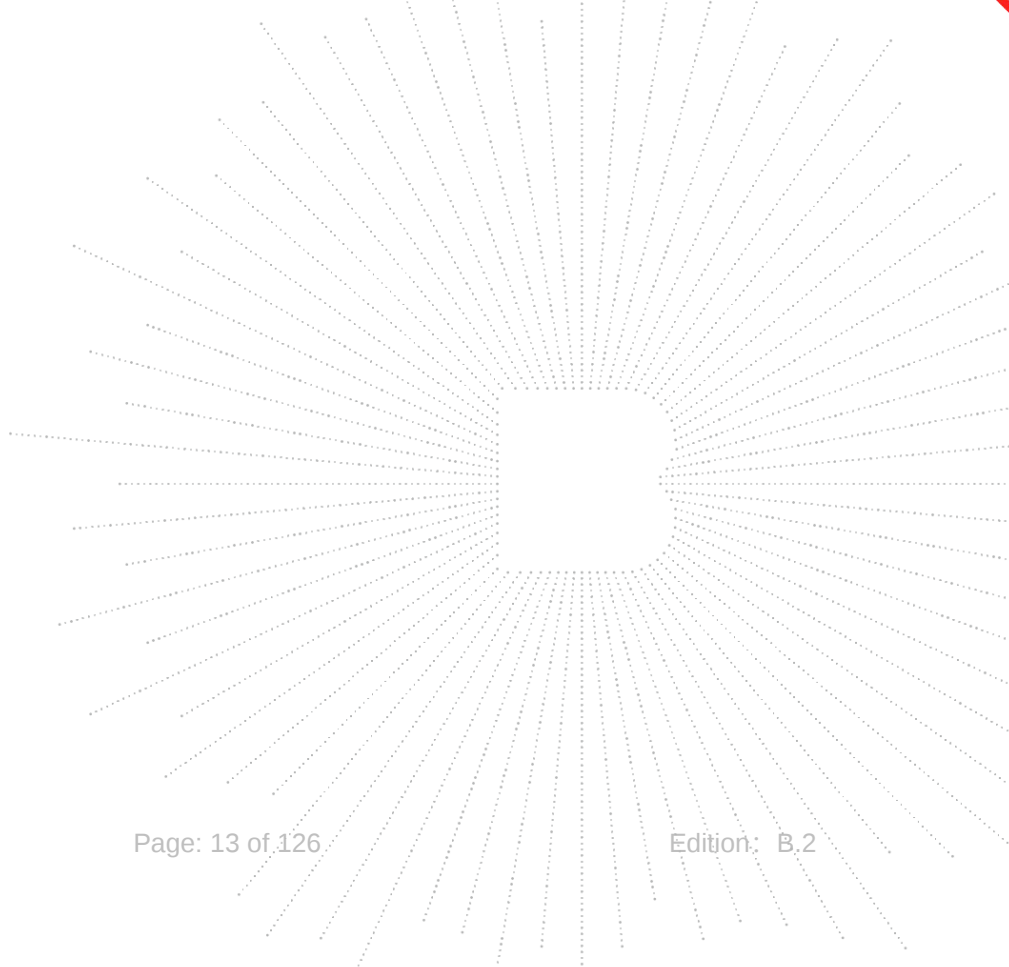
5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD 9561-F	01323	May 16, 2024	May 15, 2025

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

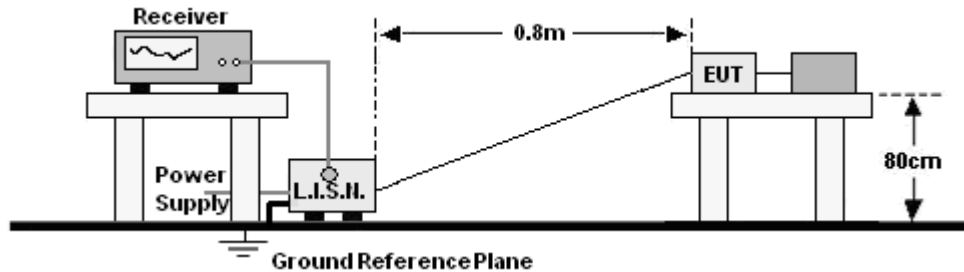
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G1 8G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

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

Notes:
1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- 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.

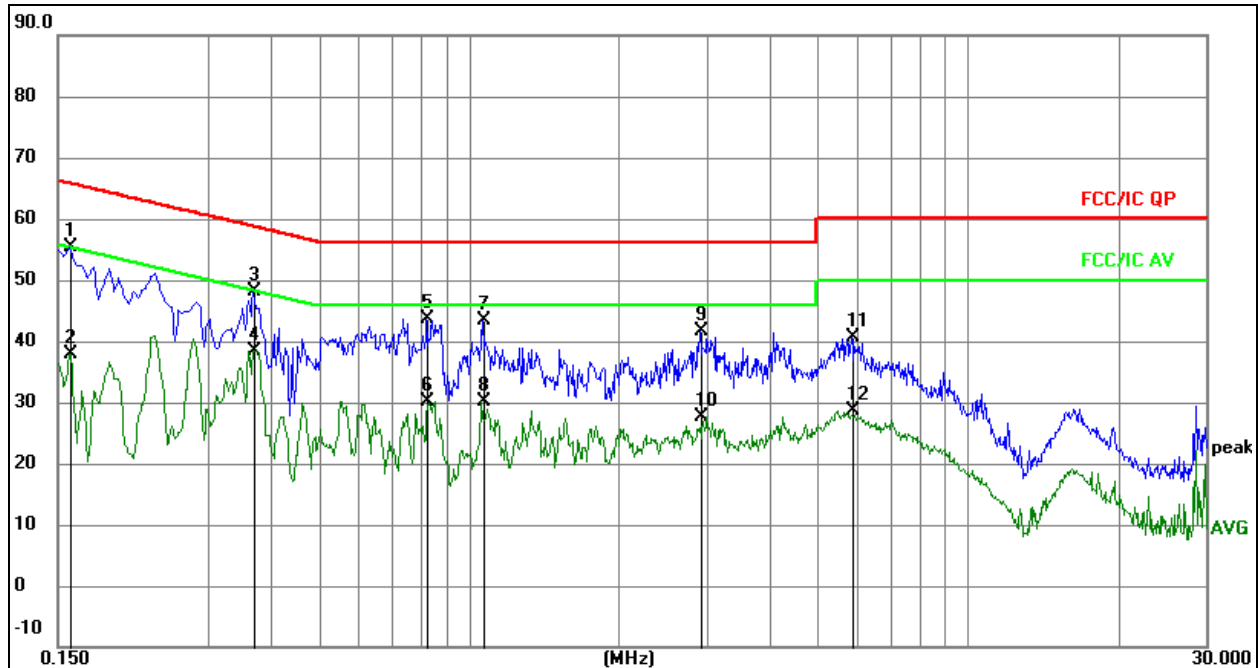
6.4 EUT operating Conditions

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.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	L

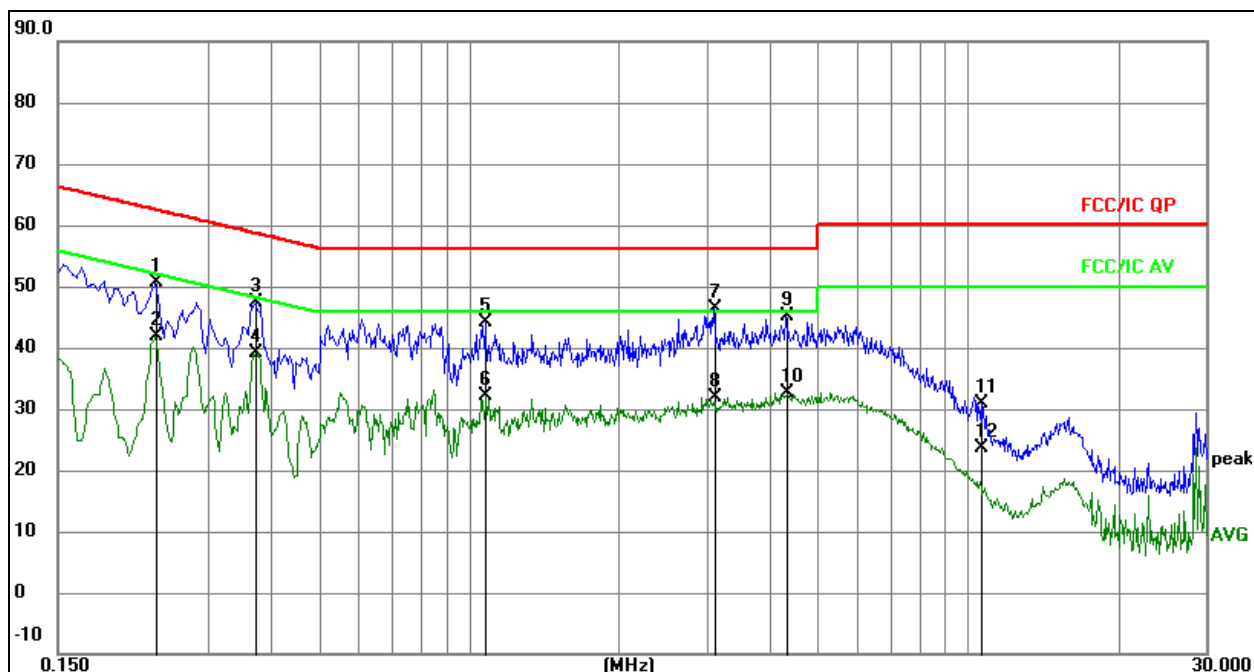


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1590	35.55	19.75	55.30	65.52	-10.22	QP
2		0.1590	18.15	19.75	37.90	55.52	-17.62	AVG
3		0.3704	28.27	19.84	48.11	58.49	-10.38	QP
4	*	0.3704	18.61	19.84	38.45	48.49	-10.04	AVG
5		0.8250	23.77	19.89	43.66	56.00	-12.34	QP
6		0.8250	10.17	19.89	30.06	46.00	-15.94	AVG
7		1.0680	23.47	19.95	43.42	56.00	-12.58	QP
8		1.0680	10.29	19.95	30.24	46.00	-15.76	AVG
9		2.9130	21.30	20.27	41.57	56.00	-14.43	QP
10		2.9130	7.40	20.27	27.67	46.00	-18.33	AVG
11		5.8470	20.44	20.23	40.67	60.00	-19.33	QP
12		5.8470	8.40	20.23	28.63	50.00	-21.37	AVG

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	N


Remark:

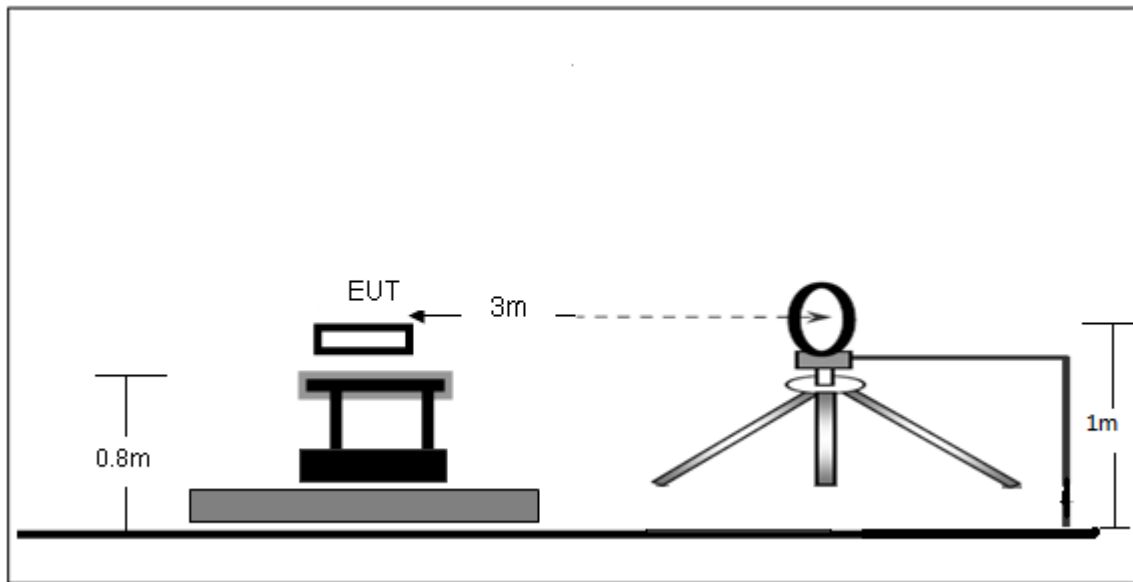
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2355	30.87	19.83	50.70	62.25	-11.55	QP
2		0.2355	22.02	19.83	41.85	52.25	-10.40	AVG
3		0.3750	27.59	19.84	47.43	58.39	-10.96	QP
4	*	0.3750	19.27	19.84	39.11	48.39	-9.28	AVG
5		1.0769	24.07	19.95	44.02	56.00	-11.98	QP
6		1.0769	12.17	19.95	32.12	46.00	-13.88	AVG
7		3.1020	26.09	20.34	46.43	56.00	-9.57	QP
8		3.1020	11.59	20.34	31.93	46.00	-14.07	AVG
9		4.3260	24.49	20.58	45.07	56.00	-10.93	QP
10		4.3260	12.00	20.58	32.58	46.00	-13.42	AVG
11		10.6665	10.91	19.88	30.79	60.00	-29.21	QP
12		10.6665	3.82	19.88	23.70	50.00	-26.30	AVG

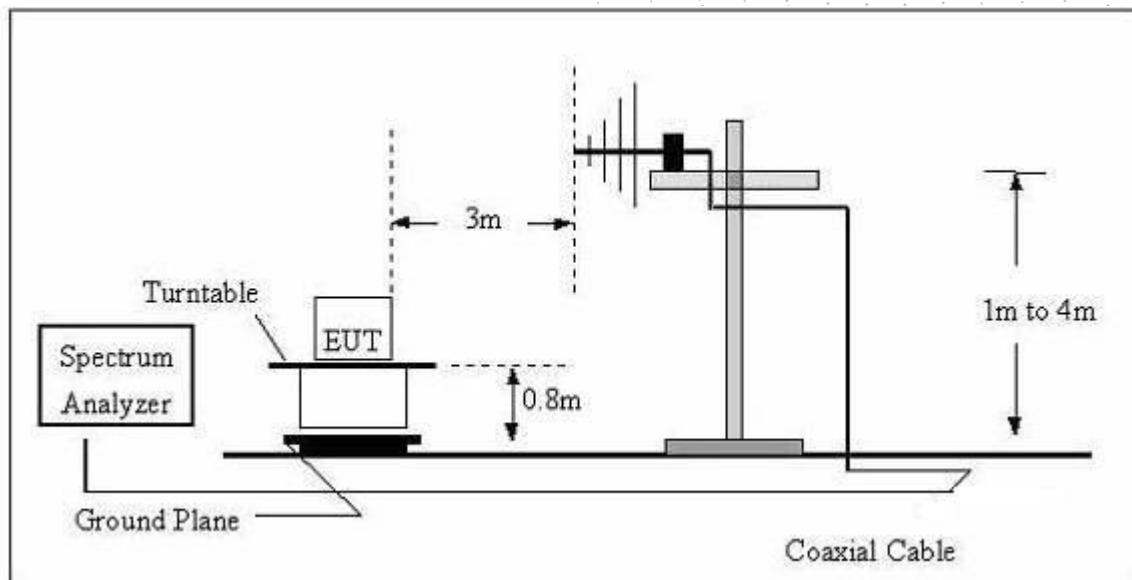
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

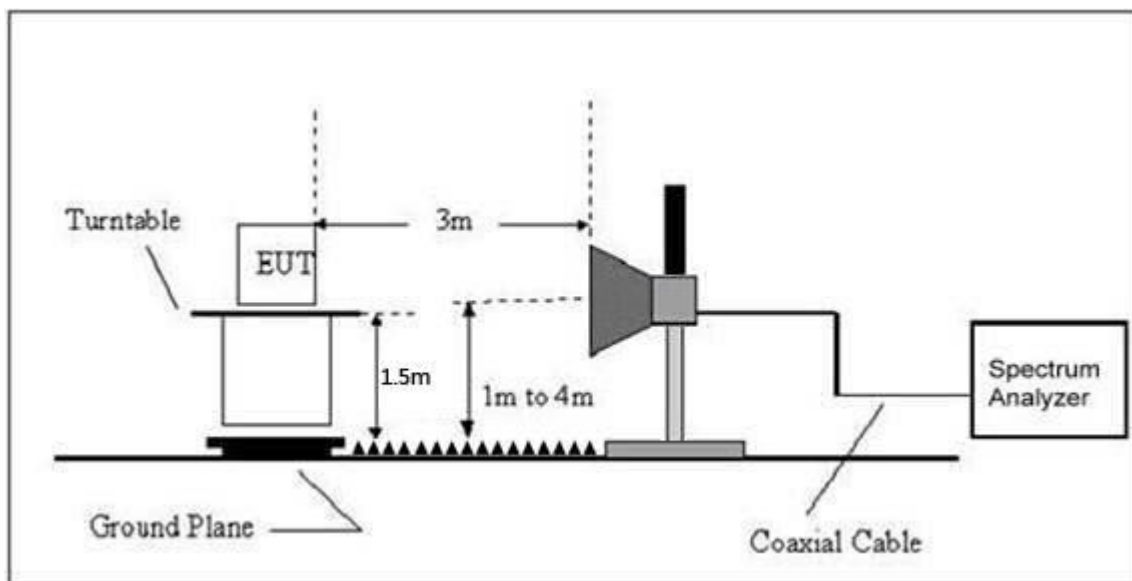
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(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 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4		

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

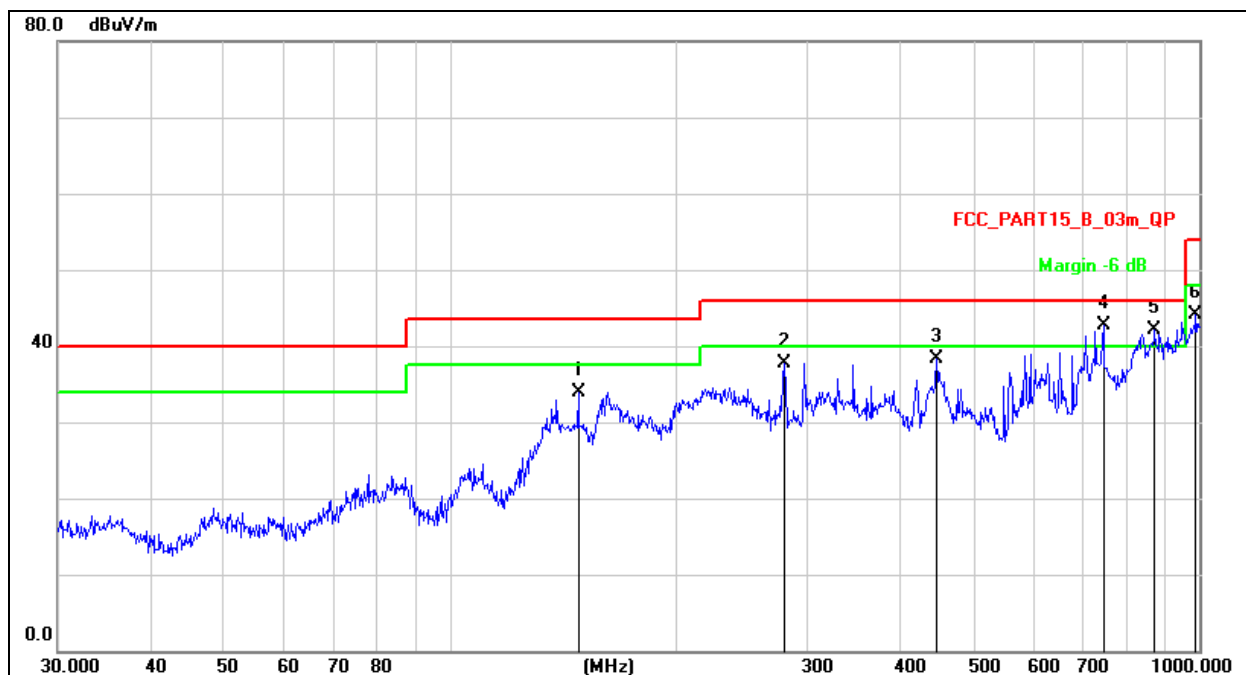
Note:

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

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

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	Horizontal

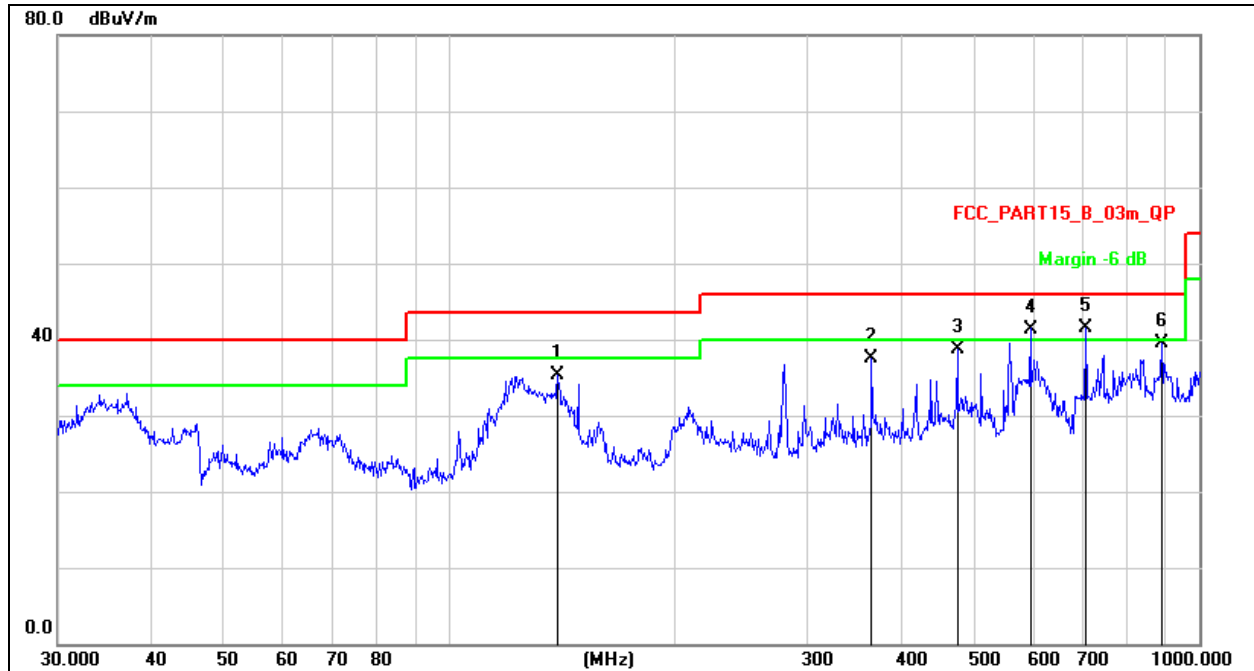


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		148.4410	53.32	-19.32	34.00	43.50	-9.50	QP
2		279.0436	51.35	-13.68	37.67	46.00	-8.33	QP
3		446.4141	48.19	-9.93	38.26	46.00	-7.74	QP
4	*	744.8661	47.68	-5.06	42.62	46.00	-3.38	QP
5	!	872.1832	45.70	-3.60	42.10	46.00	-3.90	QP
6		989.5355	46.55	-2.48	44.07	54.00	-9.93	QP

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	Vertical



Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		139.3613	54.06	-18.69	35.37	43.50	-8.13	QP
2		365.5391	48.69	-11.28	37.41	46.00	-8.59	QP
3		475.4991	48.02	-9.22	38.80	46.00	-7.20	QP
4	!	595.1329	48.75	-7.35	41.40	46.00	-4.60	QP
5	*	706.6999	47.20	-5.61	41.59	46.00	-4.41	QP
6		890.7278	42.83	-3.28	39.55	46.00	-6.45	QP

☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

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

Test mode: 802.11a Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5149.67	H	61.42	74	45.36	54
5149.45	V	57.28	74	43.21	54

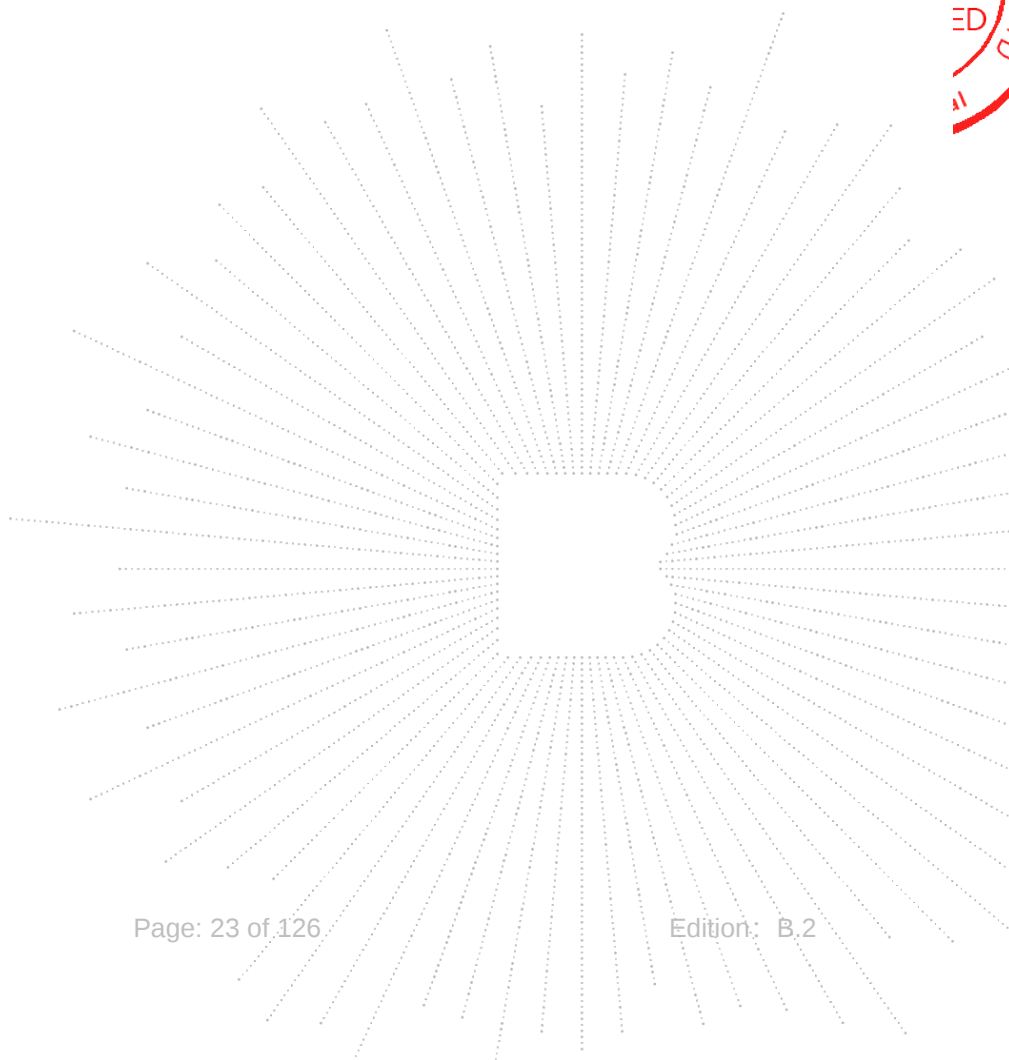
Test mode: 802.11a Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5300.29	H	44.31	74	31.09	54
5300.20	V	40.15	74	29.72	54

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp



Test Mode:	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.131	72.28	-20.73	51.54	68.2	-16.66	PK
V	4434.131	59.67	-20.73	38.93	54	-15.07	AV
V	10360.183	61.99	-9.36	52.63	68.2	-15.57	PK
V	10360.183	49.94	-9.36	40.58	54	-13.42	AV
V	15540.021	60.19	-7.84	52.35	74	-21.65	PK
V	15540.021	49.57	-7.84	41.73	54	-12.27	AV
H	4434.118	71.08	-20.73	50.35	68.2	-17.85	PK
H	4434.118	59.20	-20.73	38.47	54	-15.53	AV
H	10360.143	64.88	-9.36	55.52	68.2	-12.68	PK
H	10360.143	49.83	-9.36	40.47	54	-13.53	AV
H	15540.095	64.10	-7.84	56.26	74	-17.74	PK
H	15540.095	49.11	-7.84	41.27	54	-12.73	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.015	73.09	-20.42	52.67	74	-21.33	PK
V	4592.015	59.58	-20.42	39.16	54	-14.84	AV
V	10400.171	61.54	-9.30	52.24	68.2	-15.96	PK
V	10400.171	49.34	-9.30	40.04	54	-13.96	AV
V	15600.044	64.54	-7.82	56.72	74	-17.28	PK
V	15600.044	49.79	-7.82	41.97	54	-12.03	AV
H	4592.159	74.29	-20.42	53.87	74	-20.13	PK
H	4592.159	59.50	-20.42	39.09	54	-14.91	AV
H	10400.110	64.93	-9.30	55.63	68.2	-12.57	PK
H	10400.110	49.11	-9.30	39.81	54	-14.19	AV
H	15600.078	62.88	-7.82	55.06	74	-18.94	PK
H	15600.078	49.51	-7.82	41.69	54	-12.31	AV
High Channel (5240 MHz)-Above 1G							
V	4739.075	74.03	-20.12	53.90	74	-20.10	PK
V	4739.075	59.68	-20.12	39.56	54	-14.44	AV
V	10480.005	62.31	-9.18	53.13	68.2	-15.07	PK
V	10480.005	49.63	-9.18	40.45	54	-13.55	AV
V	15720.114	60.21	-7.78	52.43	74	-21.57	PK
V	15720.114	49.17	-7.78	41.39	54	-12.61	AV
H	4739.001	72.76	-20.12	52.64	74	-21.36	PK
H	4739.001	59.49	-20.12	39.37	54	-14.63	AV
H	10480.130	62.40	-9.18	53.22	68.2	-14.98	PK
H	10480.130	49.45	-9.18	40.27	54	-13.73	AV
H	15720.144	61.44	-7.78	53.66	74	-20.34	PK
H	15720.144	49.26	-7.78	41.48	54	-12.52	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(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
V	4434.116	74.78	-20.73	54.05	68.2	-14.15	PK
V	4434.116	59.92	-20.73	39.19	54	-14.81	AV
V	10360.082	63.54	-9.36	54.18	68.2	-14.02	PK
V	10360.082	49.18	-9.36	39.82	54	-14.18	AV
V	15540.020	62.08	-7.84	54.24	74	-19.76	PK
V	15540.020	49.63	-7.84	41.79	54	-12.21	AV
H	4434.038	71.19	-20.73	50.46	68.2	-17.74	PK
H	4434.038	59.54	-20.73	38.80	54	-15.20	AV
H	10360.088	61.37	-9.36	52.01	68.2	-16.19	PK
H	10360.088	49.36	-9.36	40.00	54	-14.00	AV
H	15540.185	62.05	-7.84	54.21	74	-19.79	PK
H	15540.185	49.16	-7.84	41.32	54	-12.68	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.060	71.66	-20.42	51.24	74	-22.76	PK
V	4592.060	59.90	-20.42	39.48	54	-14.52	AV
V	10400.078	62.20	-9.30	52.90	68.2	-15.30	PK
V	10400.078	49.82	-9.30	40.52	54	-13.48	AV
V	15600.041	62.92	-7.82	55.10	74	-18.90	PK
V	15600.041	49.29	-7.82	41.47	54	-12.53	AV
H	4592.028	70.01	-20.42	49.60	74	-24.40	PK
H	4592.028	59.23	-20.42	38.82	54	-15.18	AV
H	10400.003	64.90	-9.30	55.60	68.2	-12.60	PK
H	10400.003	49.25	-9.30	39.95	54	-14.05	AV
H	15600.000	63.42	-7.82	55.60	74	-18.40	PK
H	15600.000	49.16	-7.82	41.34	54	-12.66	AV
High Channel (5240 MHz)-Above 1G							
V	4739.137	70.86	-20.12	50.74	74	-23.26	PK
V	4739.137	59.12	-20.12	39.00	54	-15.00	AV
V	10480.198	60.02	-9.18	50.84	68.2	-17.36	PK
V	10480.198	49.59	-9.18	40.41	54	-13.59	AV
V	15720.185	61.14	-7.78	53.36	74	-20.64	PK
V	15720.185	49.03	-7.78	41.25	54	-12.75	AV
H	4739.164	70.49	-20.12	50.37	74	-23.63	PK
H	4739.164	59.36	-20.12	39.24	54	-14.76	AV
H	10480.124	62.39	-9.18	53.21	68.2	-14.99	PK
H	10480.124	49.13	-9.18	39.95	54	-14.05	AV
H	15720.129	63.85	-7.78	56.07	74	-17.93	PK
H	15720.129	49.69	-7.78	41.91	54	-12.09	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(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.178	70.38	-20.73	49.65	68.2	-18.55	PK
V	4434.178	59.19	-20.73	38.45	54	-15.55	AV
V	10380.010	60.16	-9.33	50.83	68.2	-17.37	PK
V	10380.010	49.05	-9.33	39.72	54	-14.28	AV
V	15570.145	64.47	-7.83	56.64	74	-17.36	PK
V	15570.145	49.84	-7.83	42.01	54	-11.99	AV
H	4434.099	73.10	-20.73	52.37	74	-21.63	PK
H	4434.099	59.06	-20.73	38.33	54	-15.67	AV
H	10380.087	64.88	-9.33	55.55	68.2	-12.65	PK
H	10380.087	49.18	-9.33	39.85	54	-14.15	AV
H	15570.032	60.11	-7.83	52.28	74	-21.72	PK
H	15570.032	49.96	-7.83	42.13	54	-11.87	AV
High Channel (5230 MHz)-Above 1G							
V	4739.016	71.85	-20.12	51.73	68.2	-16.47	PK
V	4739.016	59.81	-20.12	39.69	54	-14.31	AV
V	10460.193	61.83	-9.21	52.62	68.2	-15.58	PK
V	10460.193	49.52	-9.21	40.31	54	-13.69	AV
V	15690.126	63.17	-7.79	55.38	74	-18.62	PK
V	15690.126	49.63	-7.79	41.84	54	-12.16	AV
H	4739.198	71.63	-20.12	51.51	68.2	-16.69	PK
H	4739.198	59.10	-20.12	38.97	54	-15.03	AV
H	10460.183	62.61	-9.21	53.40	68.2	-14.80	PK
H	10460.183	49.89	-9.21	40.68	54	-13.32	AV
H	15690.080	60.03	-7.79	52.24	74	-21.76	PK
H	15690.080	49.59	-7.79	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(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.106	72.83	-20.73	52.10	68.2	-16.10	PK
V	4434.106	59.64	-20.73	38.91	54	-15.09	AV
V	10360.156	64.35	-9.36	54.99	68.2	-13.21	PK
V	10360.156	49.00	-9.36	39.64	54	-14.36	AV
V	15540.098	63.11	-7.84	55.27	74	-18.73	PK
V	15540.098	49.21	-7.84	41.37	54	-12.63	AV
H	4434.194	71.30	-20.73	50.57	68.2	-17.63	PK
H	4434.194	59.64	-20.73	38.91	54	-15.09	AV
H	10360.175	62.09	-9.36	52.73	68.2	-15.47	PK
H	10360.175	49.38	-9.36	40.02	54	-13.98	AV
H	15540.033	60.31	-7.84	52.47	74	-21.53	PK
H	15540.033	49.12	-7.84	41.28	54	-12.72	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.158	70.86	-20.42	50.44	74	-23.56	PK
V	4592.158	59.85	-20.42	39.43	54	-14.57	AV
V	10400.027	62.73	-9.30	53.43	68.2	-14.77	PK
V	10400.027	49.34	-9.30	40.04	54	-13.96	AV
V	15600.067	64.09	-7.82	56.27	74	-17.73	PK
V	15600.067	49.29	-7.82	41.47	54	-12.53	AV
H	4592.172	74.75	-20.42	54.34	74	-19.66	PK
H	4592.172	59.15	-20.42	38.73	54	-15.27	AV
H	10400.103	65.00	-9.30	55.70	68.2	-12.50	PK
H	10400.103	49.77	-9.30	40.47	54	-13.53	AV
H	15600.019	64.85	-7.82	57.03	74	-16.97	PK
H	15600.019	49.75	-7.82	41.93	54	-12.07	AV
High Channel (5240 MHz)-Above 1G							
V	4739.173	73.30	-20.12	53.17	74	-20.83	PK
V	4739.173	59.67	-20.12	39.55	54	-14.45	AV
V	10480.028	61.83	-9.18	52.65	68.2	-15.55	PK
V	10480.028	49.02	-9.18	39.84	54	-14.16	AV
V	15720.143	63.50	-7.78	55.72	74	-18.28	PK
V	15720.143	49.69	-7.78	41.91	54	-12.09	AV
H	4739.044	72.24	-20.12	52.12	74	-21.88	PK
H	4739.044	59.75	-20.12	39.63	54	-14.37	AV
H	10480.158	60.18	-9.18	51.00	68.2	-17.20	PK
H	10480.158	49.07	-9.18	39.89	54	-14.11	AV
H	15720.113	61.86	-7.78	54.08	74	-19.92	PK
H	15720.113	49.30	-7.78	41.52	54	-12.48	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.044	73.93	-20.73	53.20	68.2	-15.00	PK
V	4434.044	59.23	-20.73	38.49	54	-15.51	AV
V	10380.018	62.21	-9.33	52.88	68.2	-15.32	PK
V	10380.018	49.08	-9.33	39.75	54	-14.25	AV
V	15570.123	63.28	-7.83	55.45	74	-18.55	PK
V	15570.123	49.02	-7.83	41.19	54	-12.81	AV
H	4434.045	74.77	-20.73	54.04	74	-19.96	PK
H	4434.045	59.24	-20.73	38.51	54	-15.49	AV
H	10380.019	62.35	-9.33	53.02	68.2	-15.18	PK
H	10380.019	49.51	-9.33	40.18	54	-13.82	AV
H	15570.068	64.50	-7.83	56.67	74	-17.33	PK
H	15570.068	49.26	-7.83	41.43	54	-12.57	AV
High Channel (5230 MHz)-Above 1G							
V	4739.127	70.36	-20.12	50.24	68.2	-17.96	PK
V	4739.127	59.05	-20.12	38.92	54	-15.08	AV
V	10460.141	62.01	-9.21	52.80	68.2	-15.40	PK
V	10460.141	49.20	-9.21	39.99	54	-14.01	AV
V	15690.048	63.19	-7.79	55.40	74	-18.60	PK
V	15690.048	49.12	-7.79	41.33	54	-12.67	AV
H	4739.198	74.43	-20.12	54.31	68.2	-13.89	PK
H	4739.198	59.04	-20.12	38.92	54	-15.08	AV
H	10460.108	62.41	-9.21	53.20	68.2	-15.00	PK
H	10460.108	49.82	-9.21	40.61	54	-13.39	AV
H	15690.082	64.65	-7.79	56.86	74	-17.14	PK
H	15690.082	49.86	-7.79	42.07	54	-11.93	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT80
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
V	4434.194	70.84	-20.73	50.10	68.2	-18.10	PK
V	4434.194	59.84	-20.73	39.10	54	-14.90	AV
V	10420.133	61.89	-9.27	52.62	68.2	-15.58	PK
V	10420.133	49.00	-9.27	39.73	54	-14.27	AV
V	15630.010	61.40	-7.81	53.59	74	-20.41	PK
V	15630.010	49.46	-7.81	41.65	54	-12.35	AV
H	4434.094	71.34	-20.73	50.60	68.2	-17.60	PK
H	4434.094	59.37	-20.73	38.64	54	-15.36	AV
H	10420.188	43.95	9.27	53.22	68.2	-14.98	PK
H	10420.188	29.62	9.27	38.89	54	-15.11	AV
H	15630.176	61.28	-7.81	53.47	74	-20.53	PK
H	15630.176	49.95	-7.81	42.14	54	-11.86	AV

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

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

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

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



Test Mode:	TX(5.8G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.131	71.22	-20.24	50.98	74	-23.02	PK
V	4679.131	59.11	-20.24	38.87	54	-15.13	AV
V	11490.101	62.47	-8.79	53.68	68.2	-14.52	PK
V	11490.101	49.62	-8.79	40.83	54	-13.17	AV
V	17235.123	57.95	-3.18	54.77	68.2	-13.43	PK
V	17235.123	44.86	-3.18	41.68	54	-12.32	AV
H	4679.162	70.07	-20.73	49.34	74	-24.66	PK
H	4679.162	59.13	-20.73	38.40	54	-15.60	AV
H	11490.137	60.00	-8.79	51.21	68.2	-16.99	PK
H	11490.137	49.58	-8.79	40.79	54	-13.21	AV
H	17235.150	58.46	-3.18	55.28	68.2	-12.92	PK
H	17235.150	44.95	-3.18	41.77	54	-12.23	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.151	70.63	-20.42	50.22	74	-23.78	PK
V	4592.151	59.08	-20.42	38.67	54	-15.33	AV
V	11570.182	62.87	-8.86	54.01	68.2	-14.19	PK
V	11570.182	49.14	-8.86	40.28	54	-13.72	AV
V	17355.050	58.17	-2.52	55.65	68.2	-12.55	PK
V	17355.050	44.42	-2.52	41.90	54	-12.10	AV
H	4592.162	71.61	-20.42	51.19	74	-22.81	PK
H	4592.162	59.12	-20.42	38.70	54	-15.30	AV
H	11570.001	61.43	-8.86	52.57	68.2	-15.63	PK
H	11570.001	49.50	-8.86	40.64	54	-13.36	AV
H	17355.181	58.28	-2.52	55.76	68.2	-12.44	PK
H	17355.181	44.76	-2.52	42.24	54	-11.76	AV
High Channel (5825 MHz)-Above 1G							
V	6039.073	73.80	-18.93	54.86	68.2	-13.34	PK
V	6039.073	59.52	-18.93	40.59	54	-13.41	AV
V	11650.168	64.78	-8.92	55.86	74	-18.14	PK
V	11650.168	49.20	-8.92	40.28	54	-13.72	AV
V	17475.071	57.03	-1.86	55.17	68.2	-13.03	PK
V	17475.071	44.62	-1.86	42.76	54	-11.24	AV
H	6039.120	70.23	-18.93	51.29	68.2	-16.91	PK
H	6039.120	59.70	-18.93	40.77	54	-13.23	AV
H	11650.196	60.13	-8.92	51.21	74	-22.79	PK
H	11650.196	49.78	-8.92	40.86	54	-13.14	AV
H	17475.017	59.99	-1.86	58.13	68.2	-10.07	PK
H	17475.017	44.53	-1.86	42.67	54	-11.33	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(5.8G) - 802.11n-HT20

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.134	73.42	-20.24	53.17	74	-20.83	PK
V	4679.134	59.78	-20.24	39.54	54	-14.46	AV
V	11490.045	62.71	-8.79	53.92	68.2	-14.28	PK
V	11490.045	49.02	-8.79	40.23	54	-13.77	AV
V	17235.076	55.63	-3.18	52.45	68.2	-15.75	PK
V	17235.076	44.31	-3.18	41.13	54	-12.87	AV
H	4679.098	74.62	-20.24	54.38	74	-19.62	PK
H	4679.098	59.38	-20.24	39.14	54	-14.86	AV
H	11490.183	63.49	-8.79	54.70	68.2	-13.50	PK
H	11490.183	49.30	-8.79	40.51	54	-13.49	AV
H	17235.101	57.37	-3.18	54.19	68.2	-14.01	PK
H	17235.101	44.03	-3.18	40.85	54	-13.15	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.003	70.10	-20.42	49.68	74	-24.32	PK
V	4592.003	59.02	-20.42	38.60	54	-15.40	AV
V	11570.165	63.58	-8.86	54.72	68.2	-13.48	PK
V	11570.165	49.00	-8.86	40.14	54	-13.86	AV
V	17355.141	55.07	-2.52	52.55	68.2	-15.65	PK
V	17355.141	44.50	-2.52	41.98	54	-12.02	AV
H	4592.050	72.15	-20.42	51.74	74	-22.26	PK
H	4592.050	59.62	-20.42	39.21	54	-14.79	AV
H	11570.183	61.64	-8.86	52.78	68.2	-15.42	PK
H	11570.183	49.39	-8.86	40.53	54	-13.47	AV
H	17355.153	57.57	-2.52	55.05	68.2	-13.15	PK
H	17355.153	44.15	-2.52	41.63	54	-12.37	AV
High Channel (5825 MHz)-Above 1G							
V	6039.064	73.75	-18.93	54.82	68.2	-13.38	PK
V	6039.064	59.32	-18.93	40.39	54	-13.61	AV
V	11650.024	64.33	-8.92	55.41	74	-18.59	PK
V	11650.024	49.41	-8.92	40.49	54	-13.51	AV
V	17475.029	56.02	-1.86	54.16	68.2	-14.04	PK
V	17475.029	44.54	-1.86	42.68	54	-11.32	AV
H	6039.046	70.10	-18.93	51.17	68.2	-17.03	PK
H	6039.046	59.36	-18.93	40.42	54	-13.58	AV
H	11650.018	60.60	-8.92	51.68	74	-22.32	PK
H	11650.018	49.97	-8.92	41.05	54	-12.95	AV
H	17475.062	58.04	-1.86	56.18	68.2	-12.02	PK
H	17475.062	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) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.127	73.75	-20.24	53.51	74	-20.49	PK
V	4679.127	59.83	-20.24	39.59	54	-14.41	AV
V	11510.025	62.39	-8.81	53.58	74	-20.42	PK
V	11510.025	49.81	-8.81	41.00	54	-13.00	AV
V	17265.027	58.73	-3.01	55.72	68.2	-12.48	PK
V	17265.027	44.69	-3.01	41.68	54	-12.32	AV
H	4679.092	72.81	-20.24	52.57	74	-21.43	PK
H	4679.092	59.10	-20.24	38.86	54	-15.14	AV
H	11510.198	64.66	-8.81	55.85	74	-18.15	PK
H	11510.198	49.68	-8.81	40.87	54	-13.13	AV
H	17265.015	55.01	-3.01	52.00	68.2	-16.20	PK
H	17265.015	44.05	-3.01	41.04	54	-12.96	AV
High Channel (5795 MHz)-Above 1G							
V	6039.095	73.94	-18.93	55.00	68.2	-13.20	PK
V	6039.095	59.57	-18.93	40.64	54	-13.36	AV
V	11590.018	62.69	-8.87	53.82	74	-20.18	PK
V	11590.018	50.00	-8.87	41.13	54	-12.87	AV
V	17385.008	59.13	-2.35	56.78	68.2	-11.42	PK
V	17385.008	44.27	-2.35	41.92	54	-12.08	AV
H	6039.126	70.43	-18.93	51.50	68.2	-16.70	PK
H	6039.126	59.90	-18.93	40.97	54	-13.03	AV
H	11590.078	60.96	-8.87	52.09	74	-21.91	PK
H	11590.078	49.16	-8.87	40.29	54	-13.71	AV
H	17385.039	59.23	-2.35	56.88	68.2	-11.32	PK
H	17385.039	44.41	-2.35	42.06	54	-11.94	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(5.8G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.132	73.46	-20.24	53.22	74	-20.78	PK
V	4679.132	59.75	-20.24	39.51	54	-14.49	AV
V	11490.049	61.86	-8.79	53.07	68.2	-15.13	PK
V	11490.049	49.91	-8.79	41.12	54	-12.88	AV
V	17235.174	59.47	-3.18	56.29	68.2	-11.91	PK
V	17235.174	44.31	-3.18	41.13	54	-12.87	AV
H	4679.005	72.44	-20.24	52.20	74	-21.80	PK
H	4679.005	59.53	-20.24	39.29	54	-14.71	AV
H	11490.162	64.35	-8.79	55.56	68.2	-12.64	PK
H	11490.162	49.23	-8.79	40.44	54	-13.56	AV
H	17235.101	57.46	-3.18	54.28	68.2	-13.92	PK
H	17235.101	44.40	-3.18	41.22	54	-12.78	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.125	72.21	-20.42	51.79	74	-22.21	PK
V	4592.125	59.28	-20.42	38.87	54	-15.13	AV
V	11570.063	63.99	-8.86	55.13	68.2	-13.07	PK
V	11570.063	49.86	-8.86	41.00	54	-13.00	AV
V	17355.151	59.97	-2.52	57.45	68.2	-10.75	PK
V	17355.151	44.93	-2.52	42.41	54	-11.59	AV
H	4592.160	71.07	-20.42	50.66	74	-23.34	PK
H	4592.160	59.22	-20.42	38.80	54	-15.20	AV
H	11570.189	60.32	-8.86	51.46	68.2	-16.74	PK
H	11570.189	49.74	-8.86	40.88	54	-13.12	AV
H	17355.142	56.08	-2.52	53.56	68.2	-14.64	PK
H	17355.142	44.56	-2.52	42.04	54	-11.96	AV
High Channel (5825 MHz)-Above 1G							
V	6039.045	70.89	-18.93	51.96	68.2	-16.24	PK
V	6039.045	59.53	-18.93	40.60	54	-13.40	AV
V	11650.054	62.17	-8.92	53.25	74	-20.75	PK
V	11650.054	49.08	-8.92	40.16	54	-13.84	AV
V	17475.171	59.11	-1.86	57.25	68.2	-10.95	PK
V	17475.171	44.77	-1.86	42.91	54	-11.09	AV
H	6039.009	70.66	-18.93	51.72	68.2	-16.48	PK
H	6039.009	59.51	-18.93	40.58	54	-13.42	AV
H	11650.023	61.69	-8.92	52.77	74	-21.23	PK
H	11650.023	49.81	-8.92	40.89	54	-13.11	AV
H	17475.122	58.66	-1.86	56.80	68.2	-11.40	PK
H	17475.122	44.28	-1.86	42.42	54	-11.58	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	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.176	74.83	-20.24	54.59	74	-19.41	PK
V	4679.176	59.26	-20.24	39.02	54	-14.98	AV
V	11510.033	60.38	-8.81	51.57	74	-22.43	PK
V	11510.033	49.08	-8.81	40.27	54	-13.73	AV
V	17265.109	56.49	-3.01	53.48	68.2	-14.72	PK
V	17265.109	44.44	-3.01	41.43	54	-12.57	AV
H	4679.143	71.52	-20.24	51.28	74	-22.72	PK
H	4679.143	59.49	-20.24	39.25	54	-14.75	AV
H	11510.107	61.17	-8.81	52.36	74	-21.64	PK
H	11510.107	49.99	-8.81	41.18	54	-12.82	AV
H	17265.165	55.52	-3.01	52.51	68.2	-15.69	PK
H	17265.165	44.87	-3.01	41.86	54	-12.14	AV
High Channel (5795 MHz)-Above 1G							
V	6039.199	70.35	-18.93	51.42	68.2	-16.78	PK
V	6039.199	59.98	-18.93	41.05	54	-12.95	AV
V	11590.088	63.95	-8.87	55.08	74	-18.92	PK
V	11590.088	49.27	-8.87	40.40	54	-13.60	AV
V	17385.045	59.65	-2.35	57.30	68.2	-10.90	PK
V	17385.045	44.93	-2.35	42.58	54	-11.42	AV
H	6039.150	72.30	-18.93	53.37	68.2	-14.83	PK
H	6039.150	59.80	-18.93	40.87	54	-13.13	AV
H	11590.079	62.11	-8.87	53.24	74	-20.76	PK
H	11590.079	49.42	-8.87	40.55	54	-13.45	AV
H	17385.122	55.21	-2.35	52.86	68.2	-15.34	PK
H	17385.122	44.11	-2.35	41.76	54	-12.24	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT80
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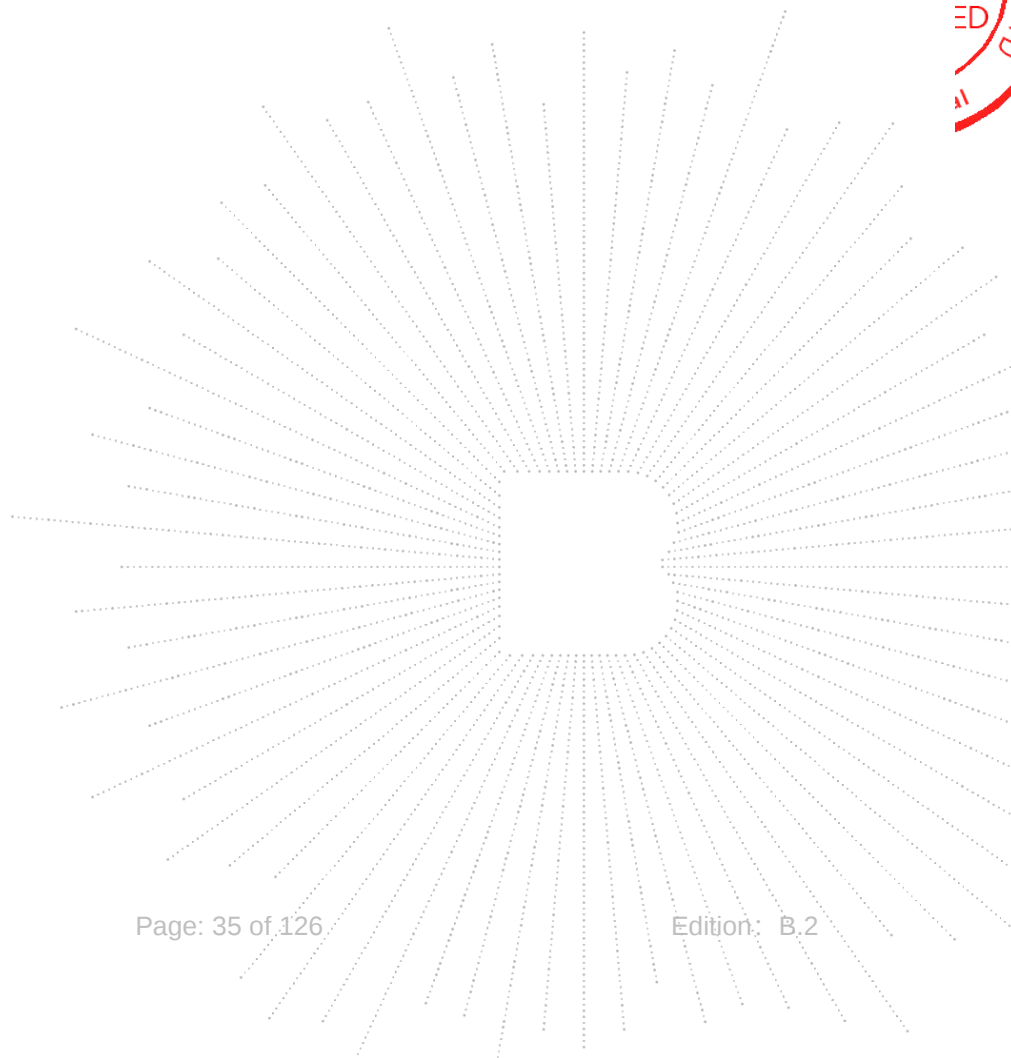
Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
V	4679.175	73.90	-20.24	53.65	74	-20.35	PK
V	4679.175	59.71	-20.24	39.47	54	-14.53	AV
V	11550.129	64.76	-8.84	55.92	74	-18.08	PK
V	11550.129	49.61	-8.84	40.77	54	-13.23	AV
V	17325.089	59.48	-2.68	56.80	68.2	-11.40	PK
V	17325.089	44.53	-2.68	41.85	54	-12.15	AV
H	4679.040	70.35	-20.24	50.10	74	-23.90	PK
H	4679.040	59.91	-20.24	39.67	54	-14.33	AV
H	11550.120	64.44	-8.84	55.60	74	-18.40	PK
H	11550.120	49.65	-8.84	40.81	54	-13.19	AV
H	17325.079	59.33	-2.68	56.65	68.2	-11.55	PK
H	17325.079	44.45	-2.68	41.77	54	-12.23	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.

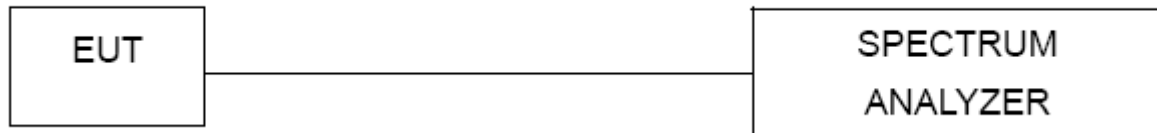
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

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

For the band 5.725-5.85 GHz

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

8.3 Test procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

8.4 EUT operating Conditions

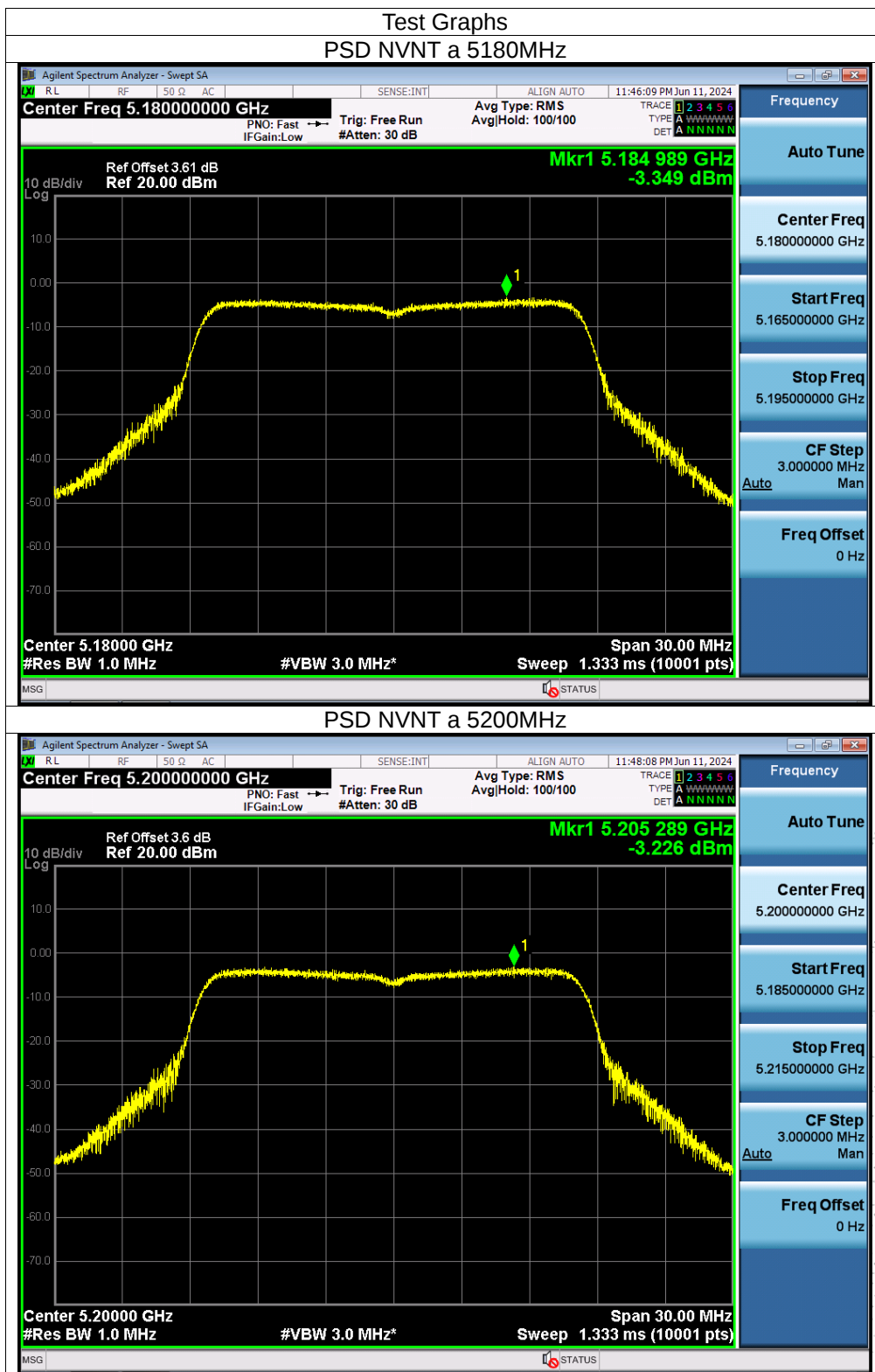
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

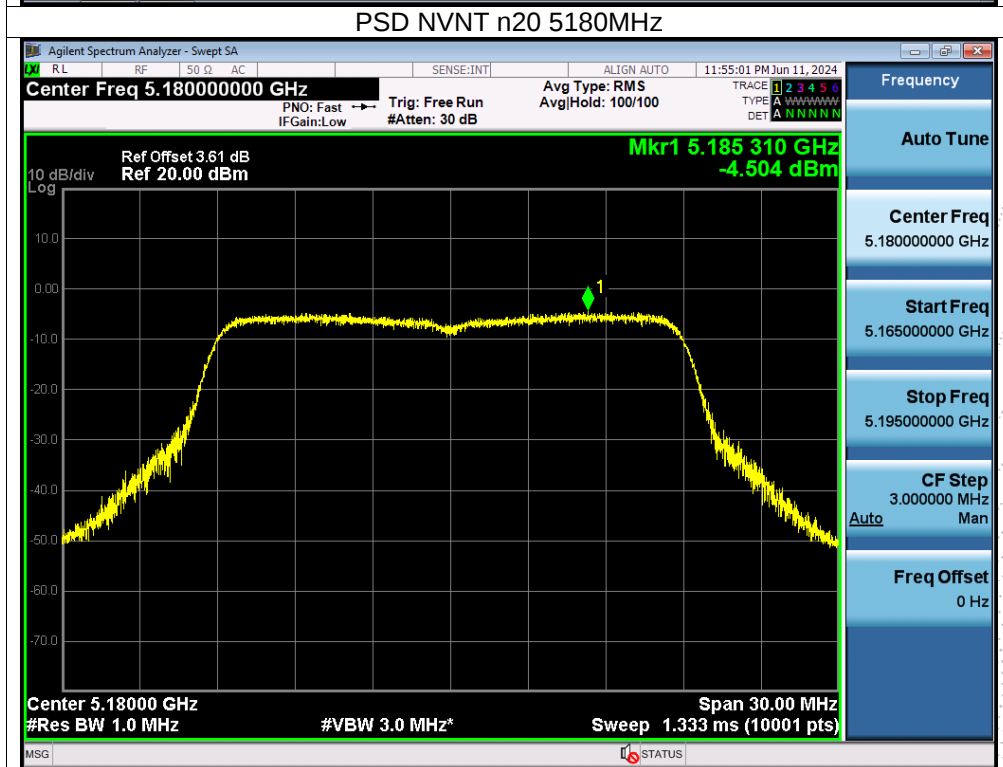
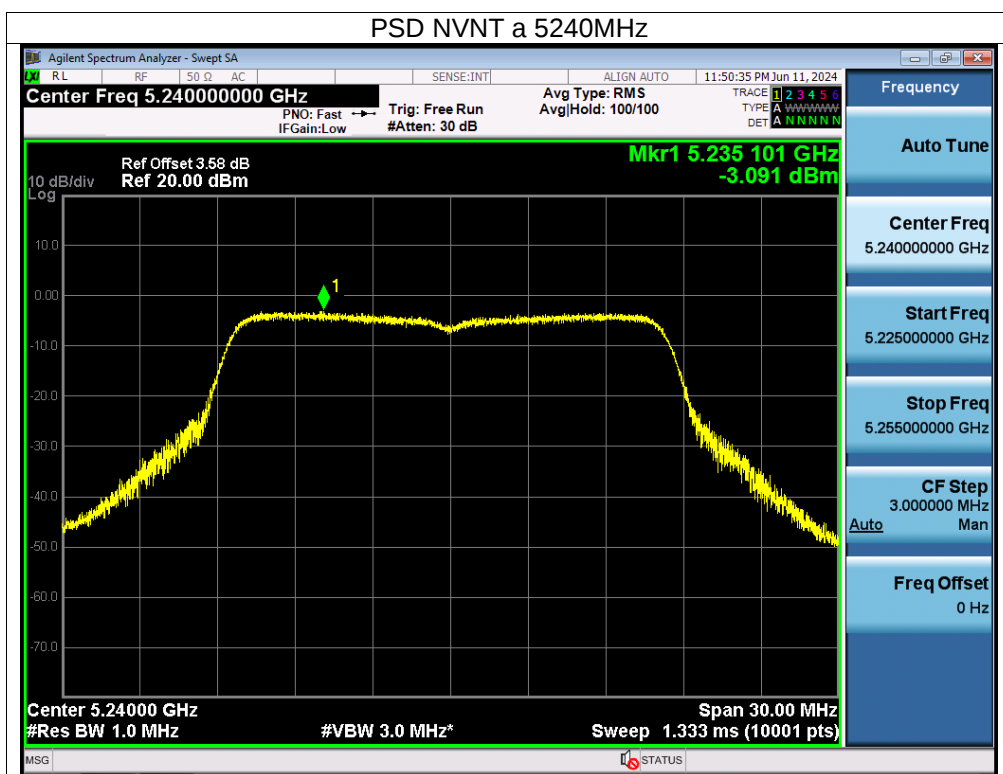
8.5 Test Result

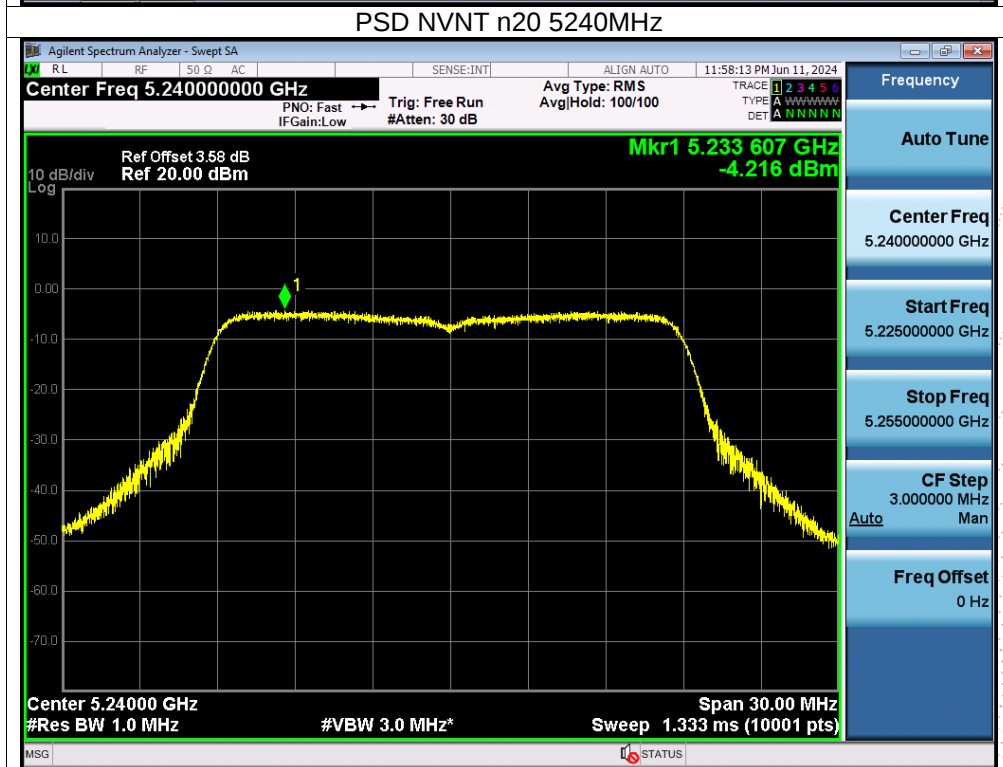
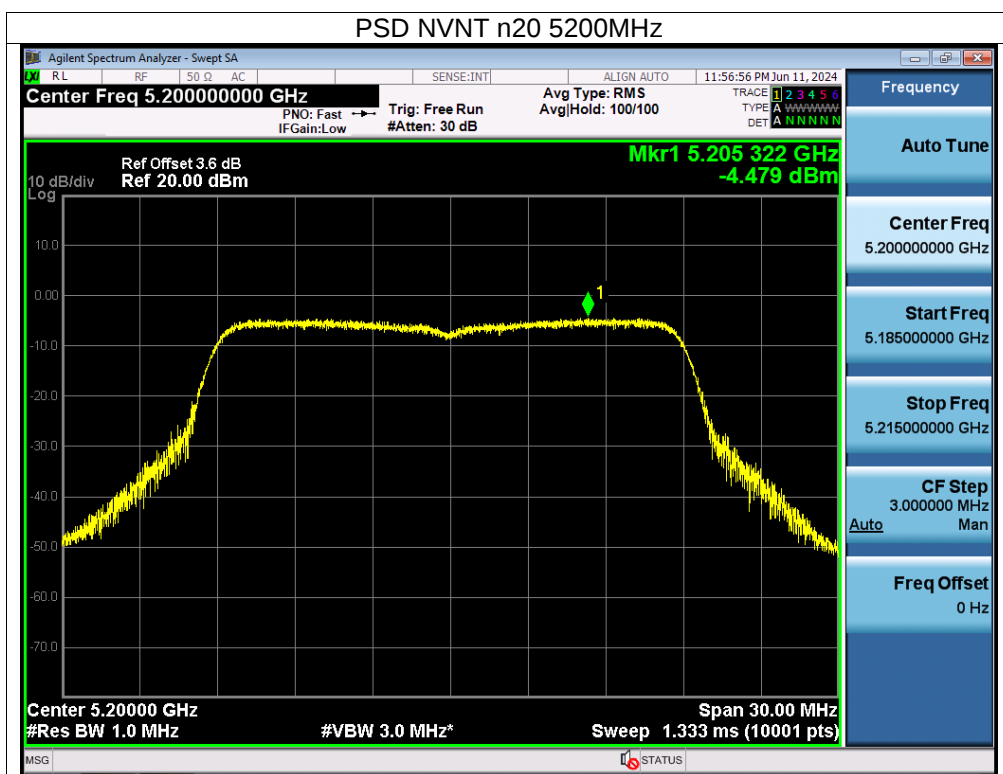
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

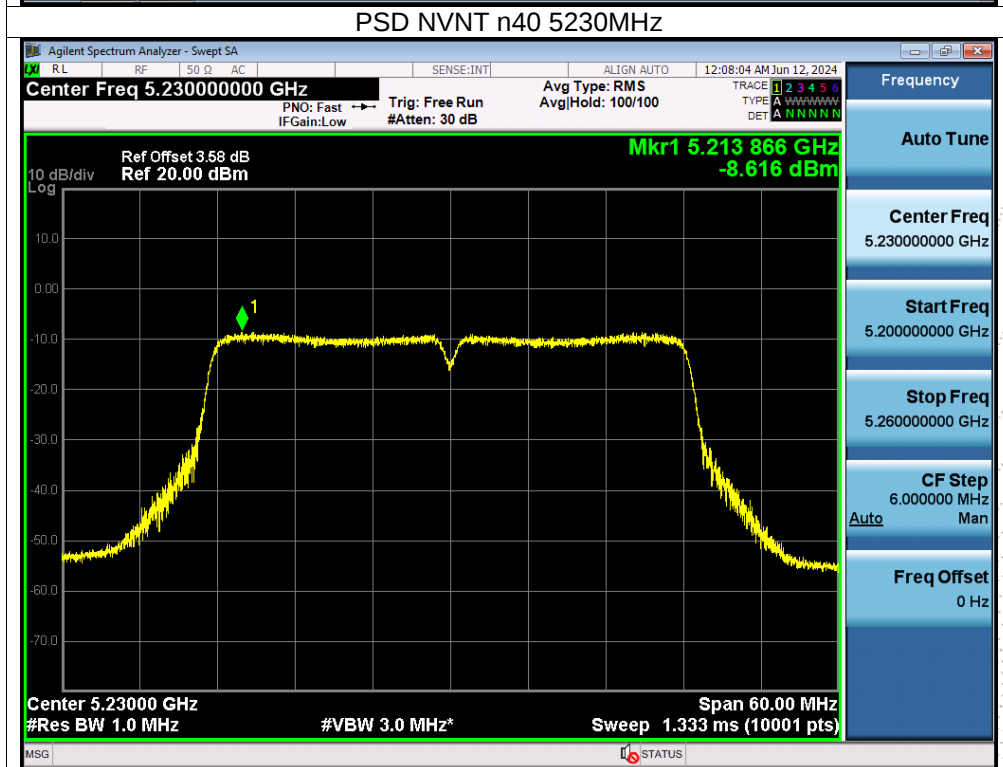
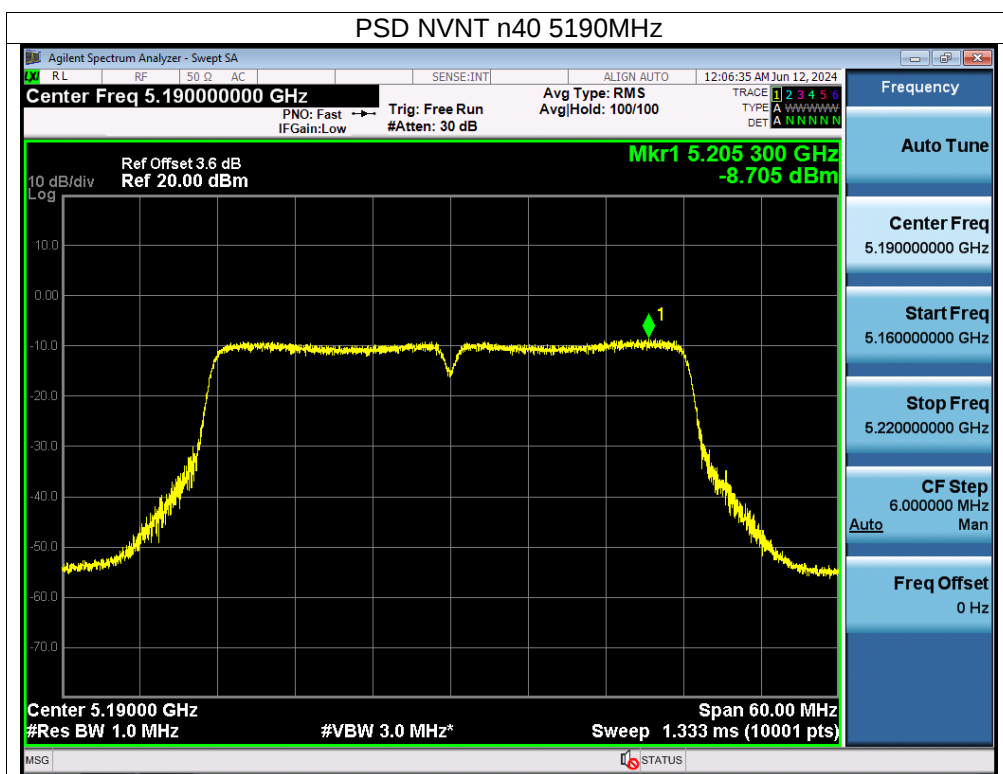
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-3.35	11	Pass
NVNT	a	5200	-3.23	11	Pass
NVNT	a	5240	-3.09	11	Pass
NVNT	n20	5180	-4.50	11	Pass
NVNT	n20	5200	-4.48	11	Pass
NVNT	n20	5240	-4.22	11	Pass
NVNT	n40	5190	-8.71	11	Pass
NVNT	n40	5230	-8.62	11	Pass
NVNT	ac20	5180	-4.78	11	Pass
NVNT	ac20	5200	-4.55	11	Pass
NVNT	ac20	5240	-4.22	11	Pass
NVNT	ac40	5190	-8.40	11	Pass
NVNT	ac40	5230	-8.26	11	Pass
NVNT	ac80	5210	-11.85	11	Pass

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-1.71	30	Pass
NVNT	a	5785	-1.89	30	Pass
NVNT	a	5825	-2.31	30	Pass
NVNT	n20	5745	-2.34	30	Pass
NVNT	n20	5785	-2.41	30	Pass
NVNT	n20	5825	-2.28	30	Pass
NVNT	n40	5755	-7.14	30	Pass
NVNT	n40	5795	-7.70	30	Pass
NVNT	ac20	5745	-2.31	30	Pass
NVNT	ac20	5785	-2.78	30	Pass
NVNT	ac20	5825	-2.87	30	Pass
NVNT	ac40	5755	-7.19	30	Pass
NVNT	ac40	5795	-8.18	30	Pass
NVNT	ac80	5775	-11.16	30	Pass

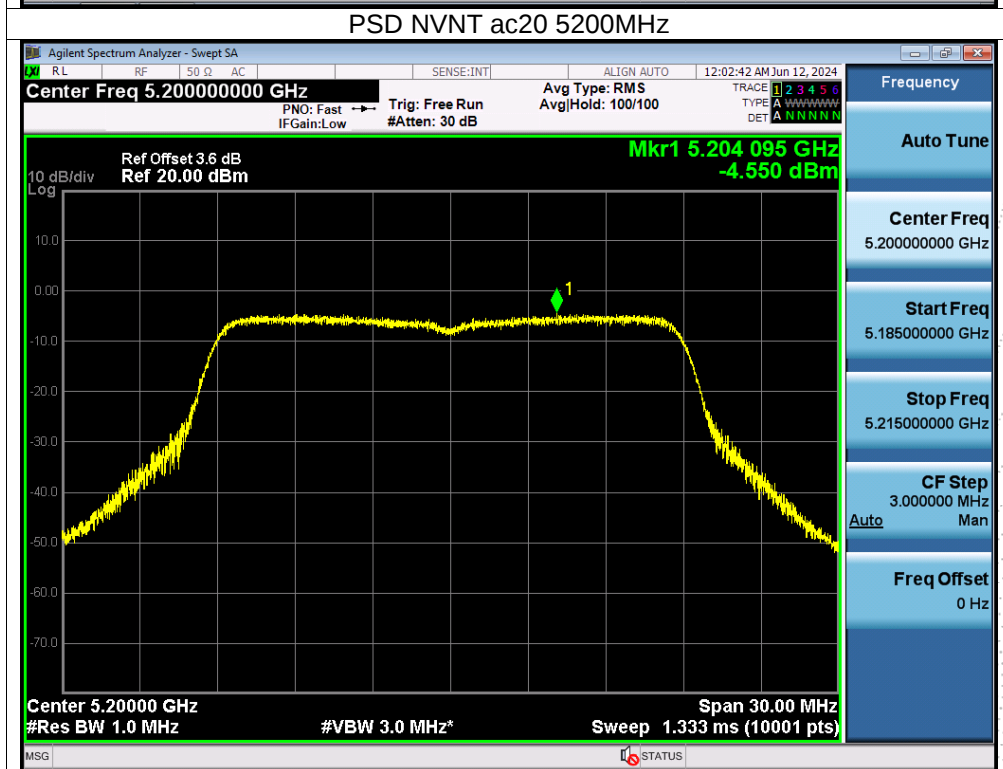
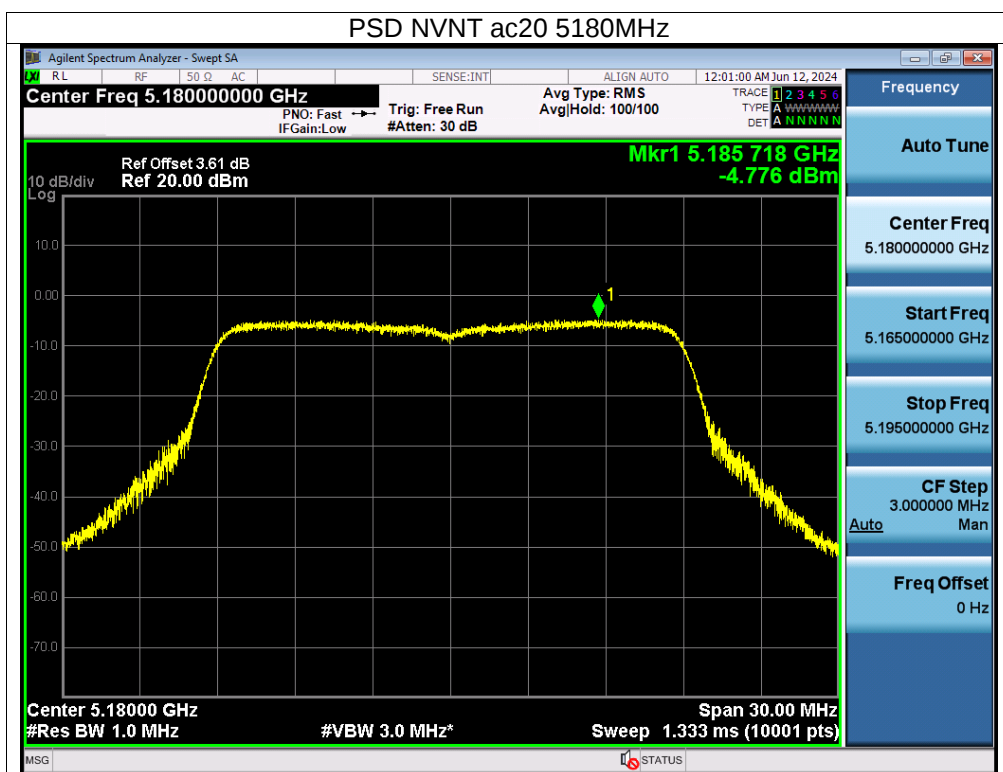


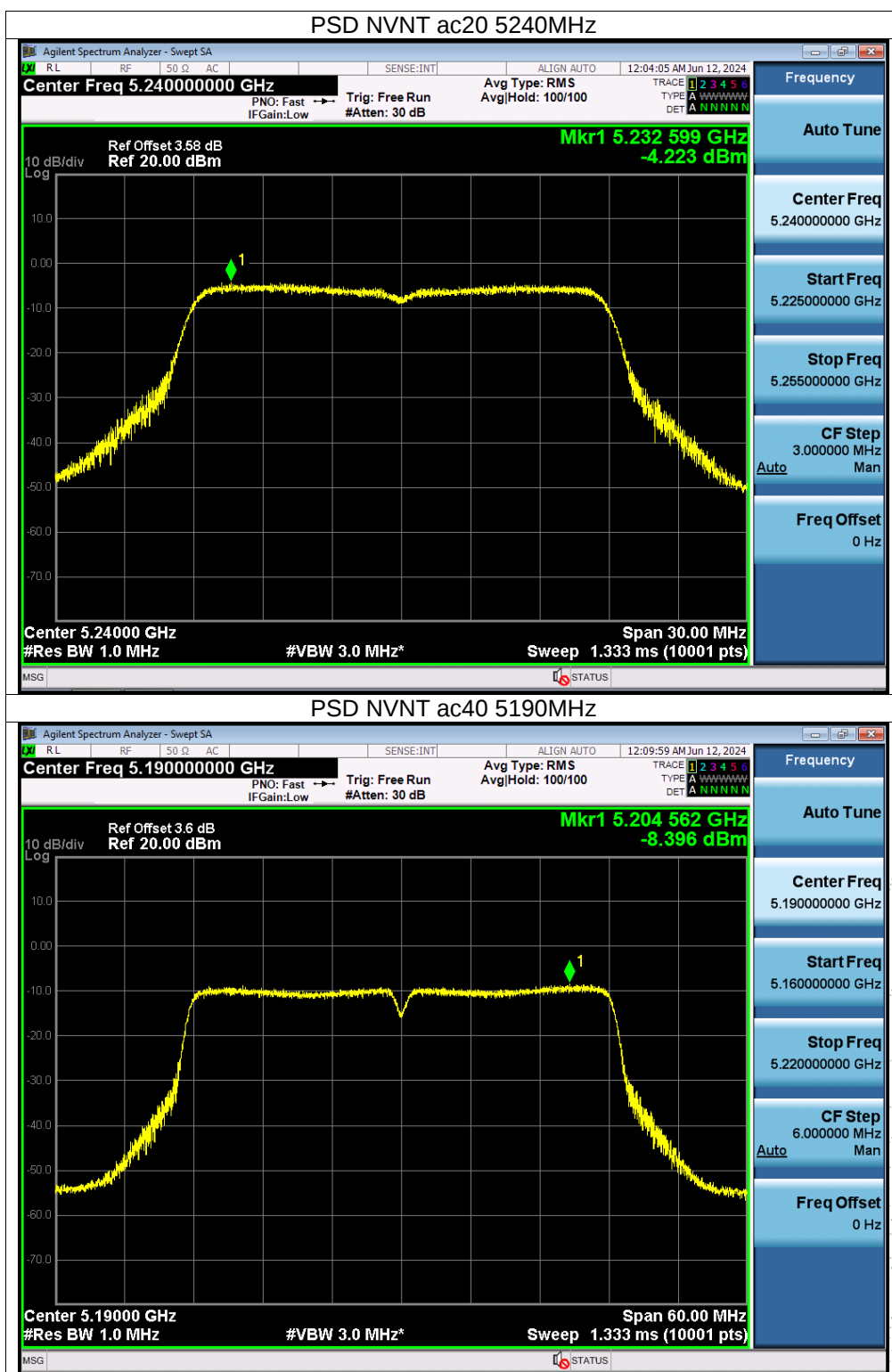


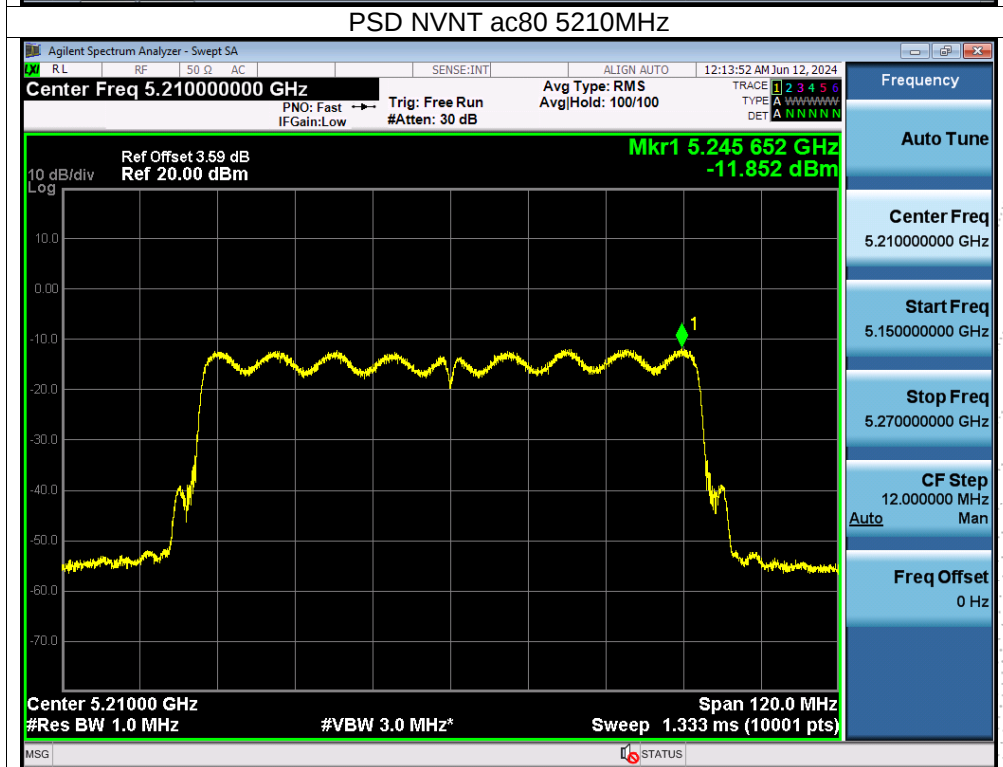
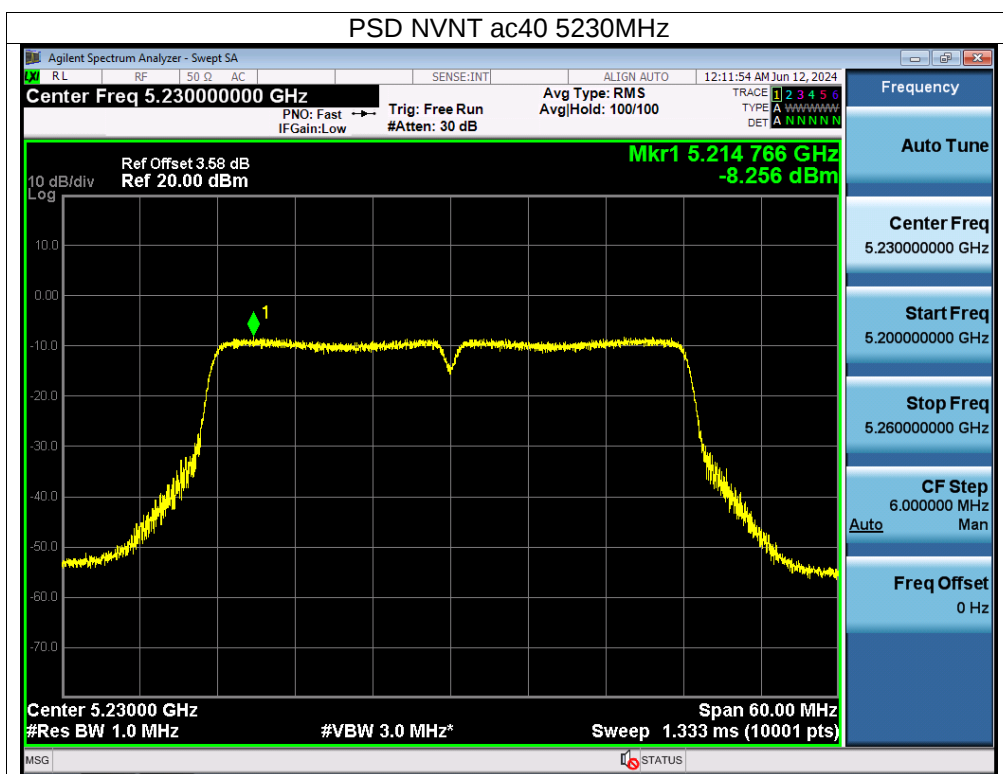




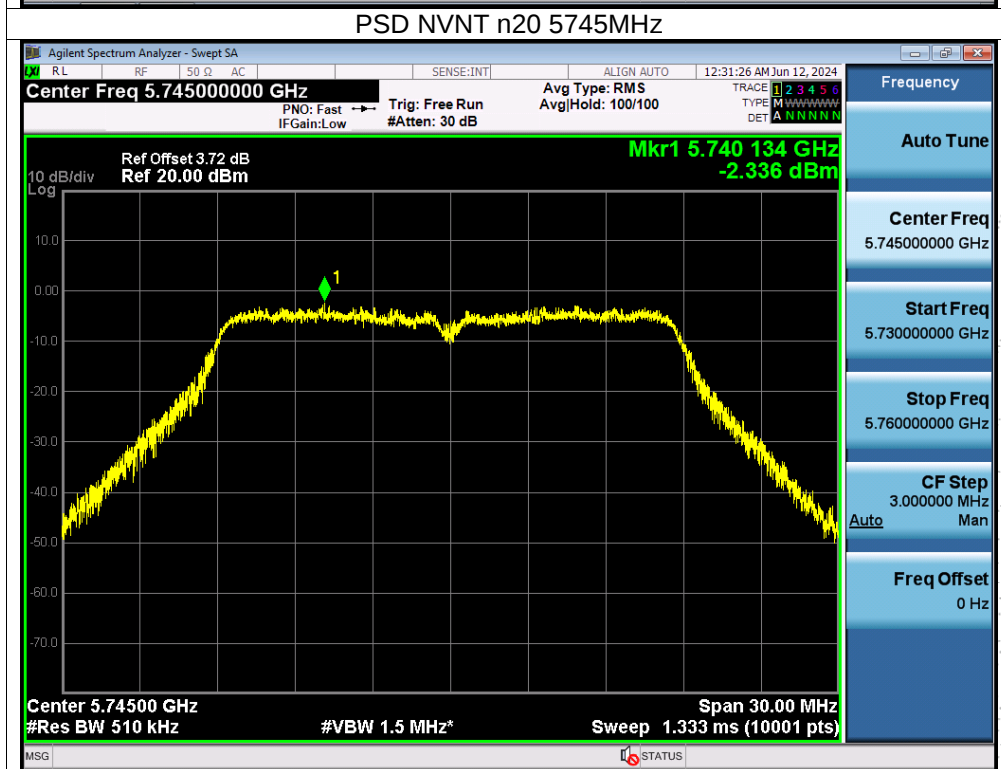
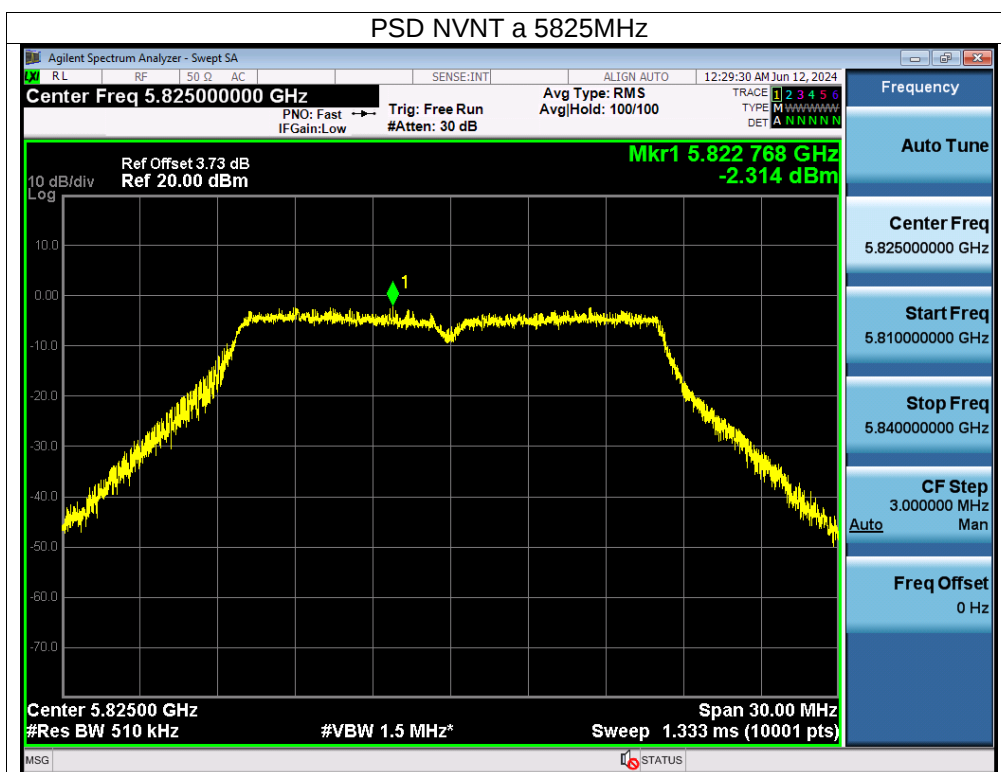
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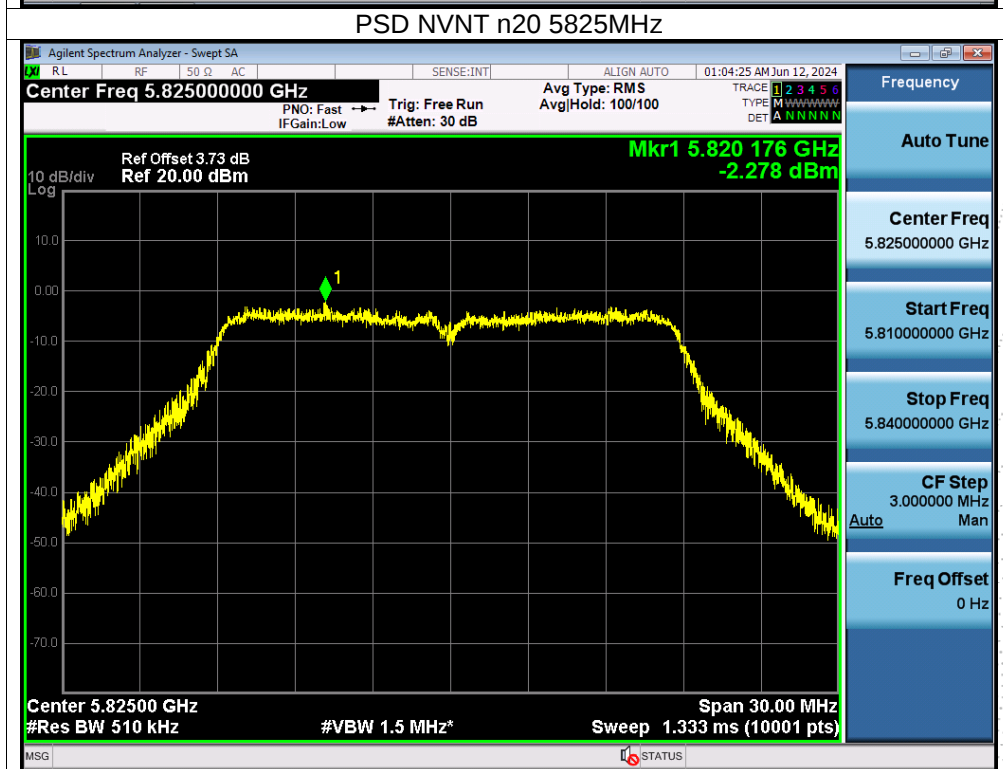
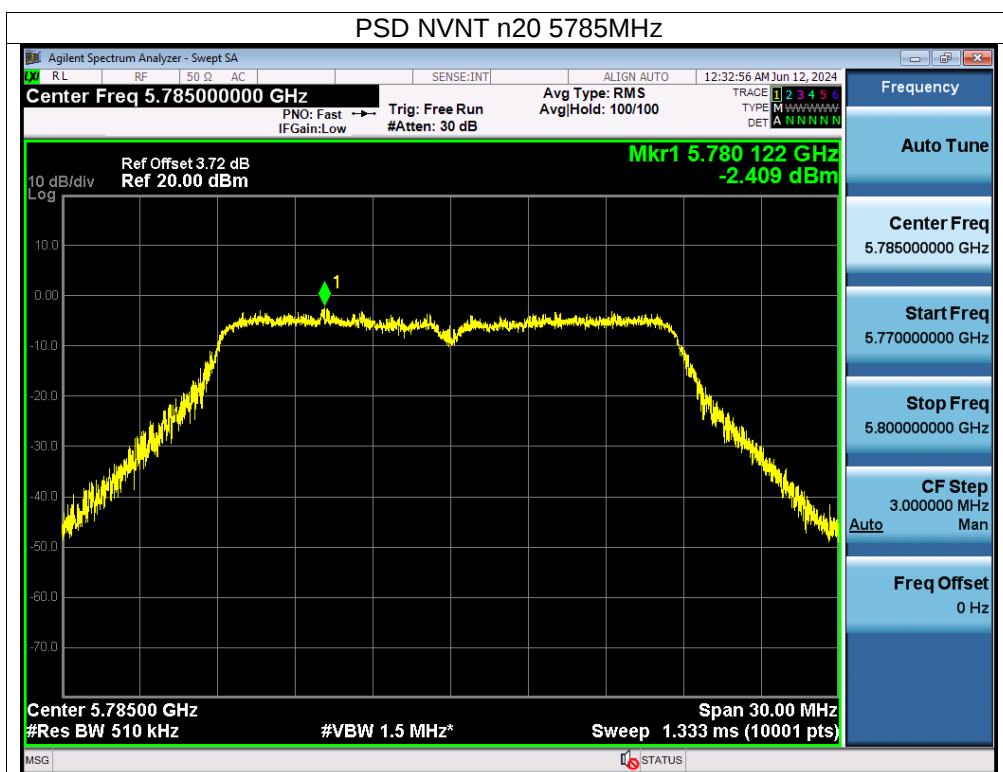




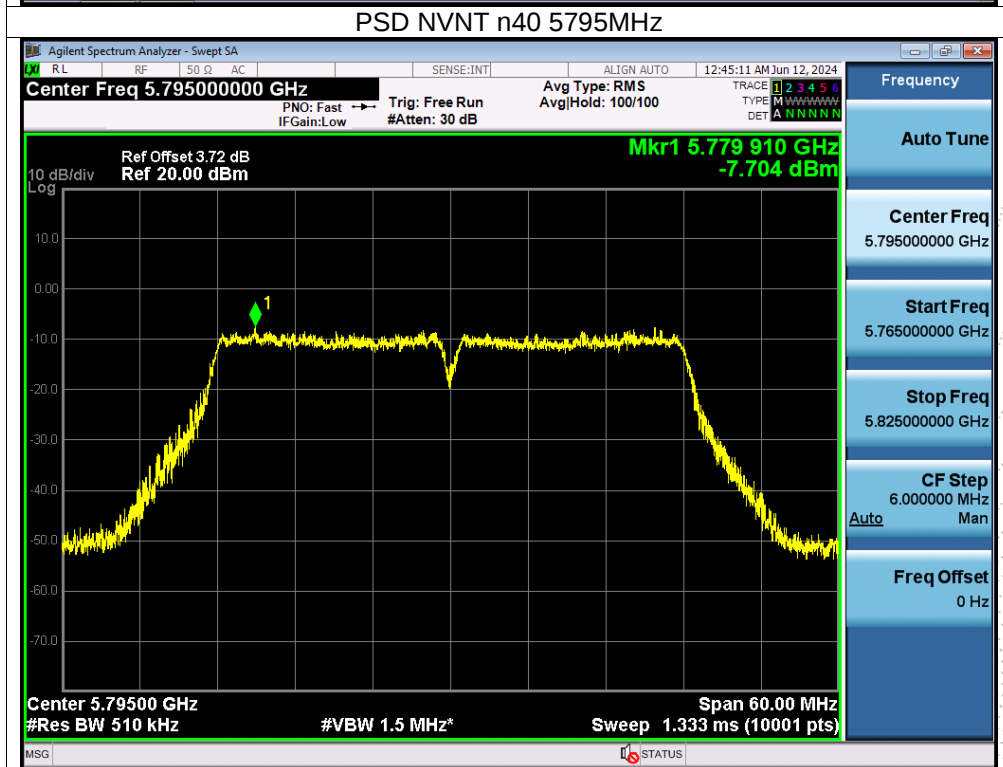
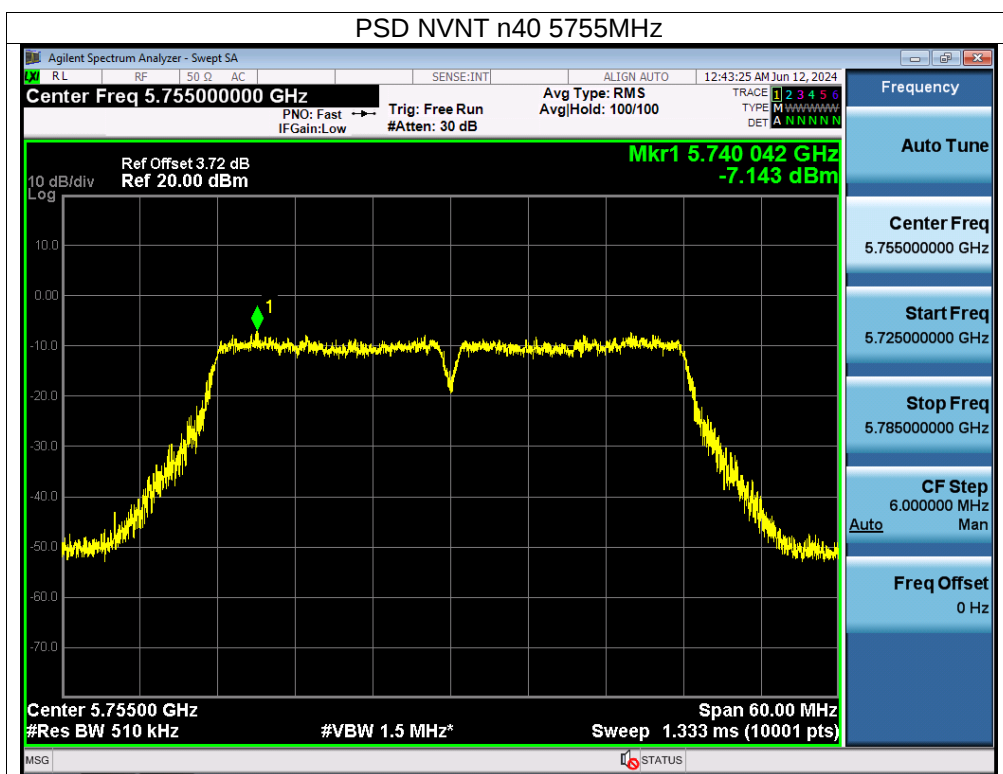




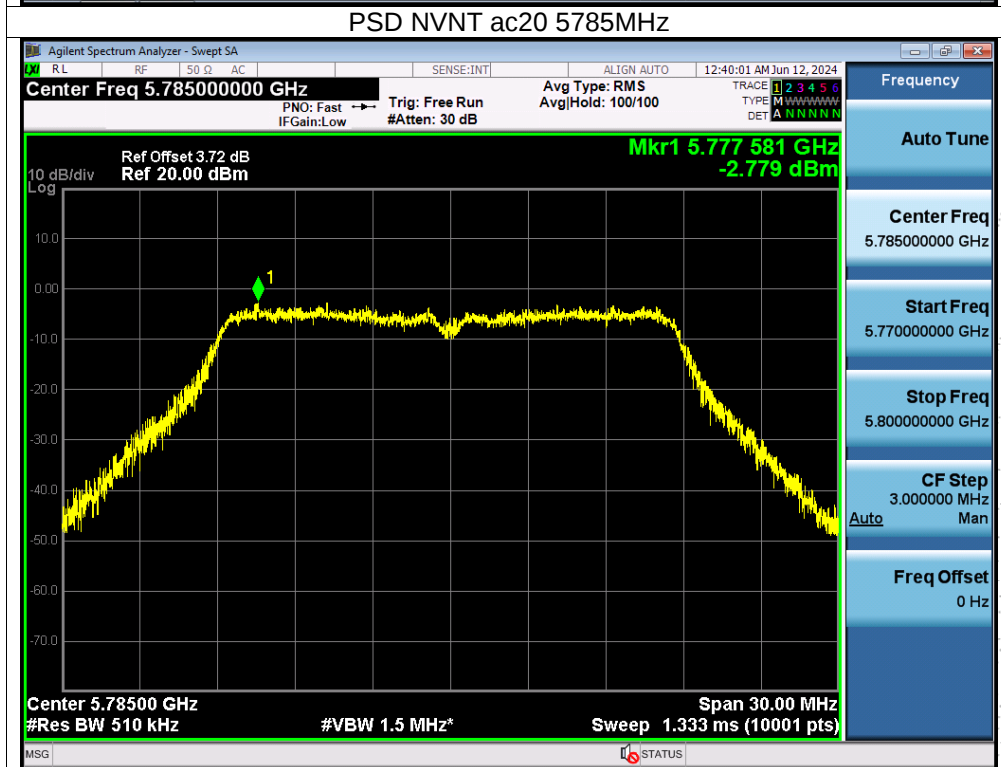
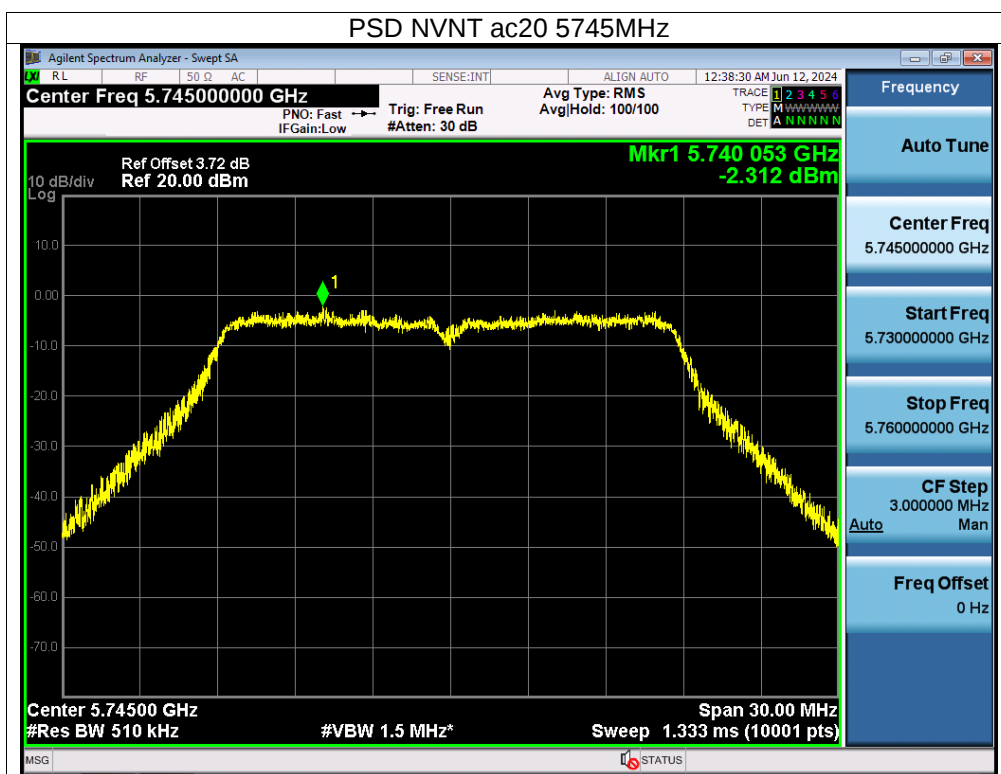




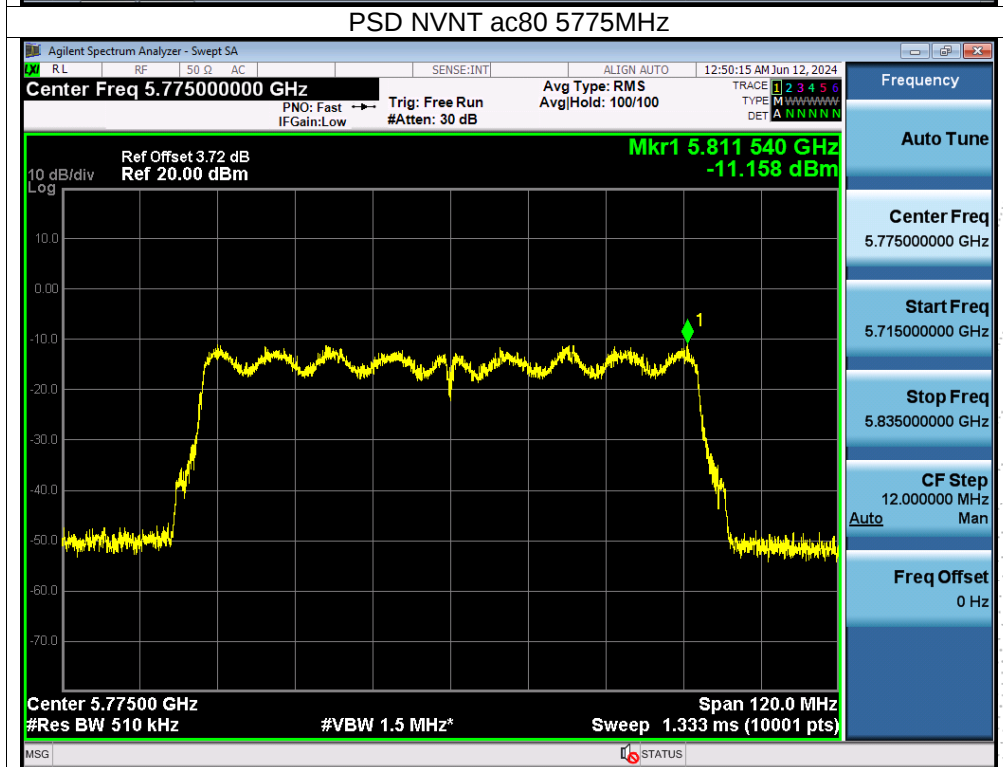
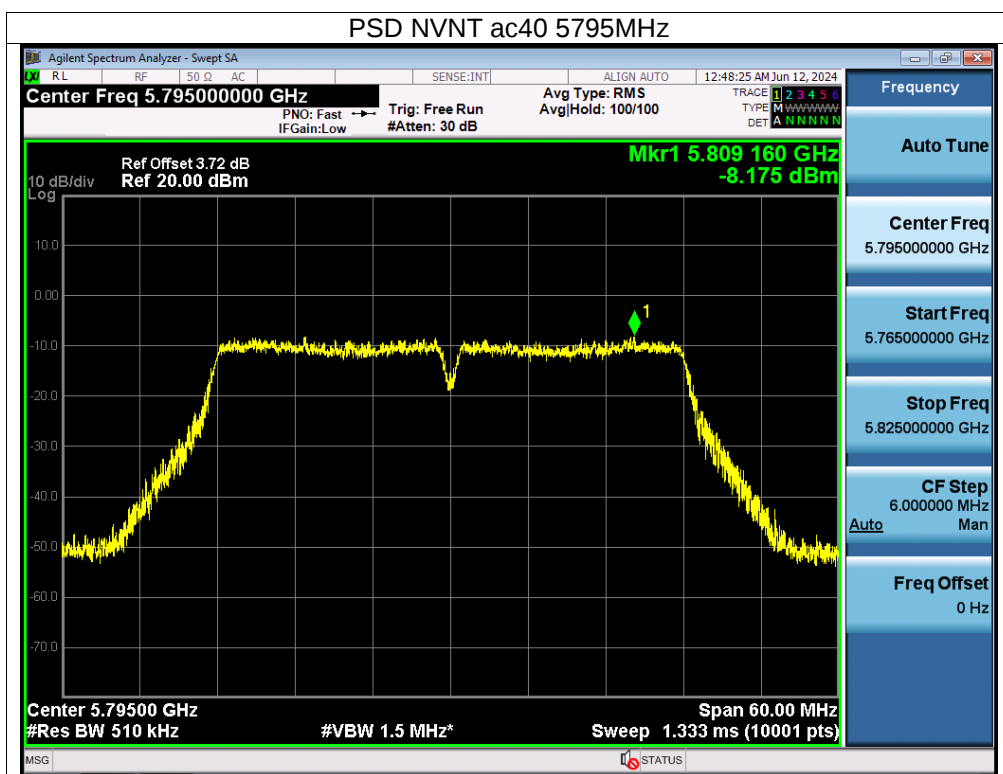
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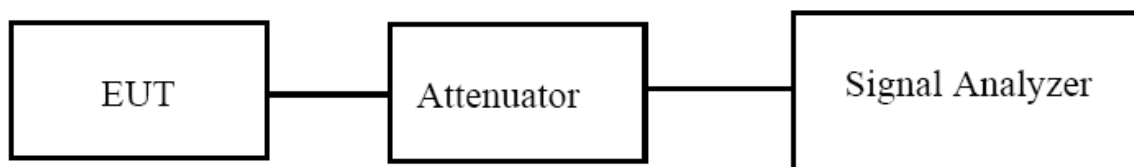






9. 26dB & 6dB & 99% Emission Bandwidth

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.

9.3 Test procedure

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW $\geq 3 \cdot$ RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

9.4 EUT operating Conditions

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

9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)
NVNT	a	5180	21.049
NVNT	a	5200	21.546
NVNT	a	5240	21.482
NVNT	n20	5180	22.201
NVNT	n20	5200	22.234
NVNT	n20	5240	21.980
NVNT	n40	5190	44.157
NVNT	n40	5230	43.274
NVNT	ac20	5180	22.218
NVNT	ac20	5200	22.235
NVNT	ac20	5240	22.055
NVNT	ac40	5190	43.806
NVNT	ac40	5230	43.749
NVNT	ac80	5210	83.633

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.586
NVNT	a	5200	16.643
NVNT	a	5240	16.622
NVNT	n20	5180	17.816
NVNT	n20	5200	17.820
NVNT	n20	5240	17.804
NVNT	n40	5190	36.477
NVNT	n40	5230	36.437
NVNT	ac20	5180	17.784
NVNT	ac20	5200	17.812
NVNT	ac20	5240	17.832
NVNT	ac40	5190	36.470
NVNT	ac40	5230	36.419
NVNT	ac80	5210	75.864

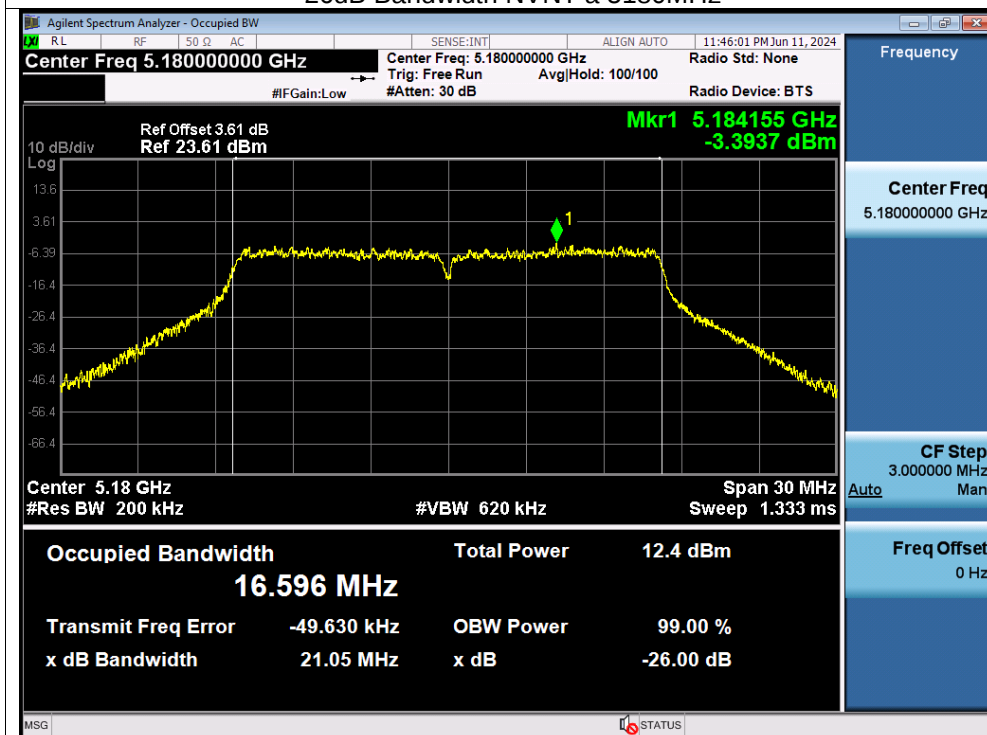
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.546	0.5	Pass
NVNT	a	5785	16.563	0.5	Pass
NVNT	a	5825	16.560	0.5	Pass
NVNT	n20	5745	17.800	0.5	Pass
NVNT	n20	5785	17.757	0.5	Pass
NVNT	n20	5825	17.765	0.5	Pass
NVNT	n40	5755	36.501	0.5	Pass
NVNT	n40	5795	36.555	0.5	Pass
NVNT	ac20	5745	17.768	0.5	Pass
NVNT	ac20	5785	17.805	0.5	Pass
NVNT	ac20	5825	17.774	0.5	Pass
NVNT	ac40	5755	36.529	0.5	Pass
NVNT	ac40	5795	36.542	0.5	Pass
NVNT	ac80	5775	76.405	0.5	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.640
NVNT	a	5785	16.658
NVNT	a	5825	16.648
NVNT	n20	5745	17.828
NVNT	n20	5785	17.791
NVNT	n20	5825	17.790
NVNT	n40	5755	36.515
NVNT	n40	5795	36.458
NVNT	ac20	5745	17.802
NVNT	ac20	5785	17.834
NVNT	ac20	5825	17.830
NVNT	ac40	5755	36.515
NVNT	ac40	5795	36.462
NVNT	ac80	5775	75.865

Test Graphs

-26dB Bandwidth NVNT a 5180MHz



-26dB Bandwidth NVNT a 5200MHz

