TEST REPORT

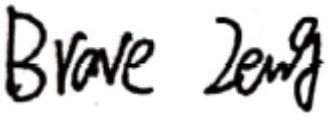
Report No.:	BCTC2403534674-2E
Applicant:	Mofi Network Inc
Product Name:	MOFI6500
Test Model:	MOFI6500-5GXeLTE
Tested Date:	2024-03-11 to 2024-04-18
Issued Date:	2024-05-27

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2AE6X-MOFI6500

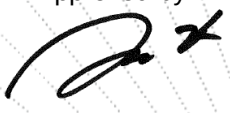
Product Name:	MOFI6500
Trademark:	N/A
Model/Type Ref.:	MOFI6500-5GXeLTE,MOFI6500-5GXeLTE-RM520,MOFI6500-5GXeLTE-EM7411, MOFI6500-5GXelte-FN990
Prepared For:	Mofi Network Inc
Address:	15 SIMS CRES UNITS 4,5,6,Richmond Hill,Canada,L4B1C9
Manufacturer:	Mofi Network Inc
Address:	15 SIMS CRES UNITS 4,5,6,Richmond Hill,Canada,L4B1C9
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2024-03-11
Sample tested Date:	2024-03-11 to 2024-04-18
Report No.:	BCTC2403534674-2E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

Table of Content

1. Version

Report No.	Issue Date	Description	Approved
BCTC2403534674-2E	2024-05-27	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)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)	PASS
6	Band Edge	15.407(b)	PASS
7	Power Spectral Density	15.407 (a)	PASS
8	Spurious Emissions at Antenna Terminals	15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

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

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

4. Product Information and Test Setup

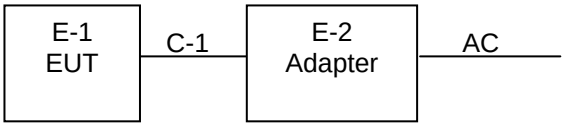
4.1 Product Information

Model/Type Ref.:	MOFI6500-5GXeLTE,MOFI6500-5GXeLTE-RM520,MOFI6500-5GXeLTE-EM7411 ,MOFI6500-5GXelte-FN990
Model differences:	The following models of units we produce are identical in electrical, mechanical and physical structure; The difference is only in the model name, we finally have MOFI6500-5GXeLTE as test model.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	☒802.11a ☒802.11n(20MHz channel bandwidth) ☒802.11n(40MHz channel bandwidth) ☒802.11ac(20MHz channel bandwidth) ☒802.11ac(40MHz channel bandwidth) ☒802.11ac(80MHz channel bandwidth) ☒802.11ax(20MHz channel bandwidth) ☒802.11ax(40MHz channel bandwidth) ☒802.11ax(80MHz channel bandwidth)
Operation Frequency:	5745-5825 MHz for 802.11a/n/ac(HT20)/ax(HE20); 5755-5795 MHz for 802.11n/ac(HT40)/ax(HE40); 5775MHz for 802.11 ac/ax80
Data Rate	☒802.11a:54/48/36/24/18/12/9/6Mbps ☒802.11n:up to 300 Mbps ☒802.11ac:up to 867 Mbps ☒802.11ax:up to 1201 Mbps
Type of Modulation:	☒OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n ☒OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac ☒OFDMA with 1024QAM for 802.11AX HE
Number Of Channel	5 channels for 802.11a/ ac/ax/n20 in the 5745-5825MHz band ; 2 channels for 802.11 ac/ax/n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac/ax80 in the 5775MHz band
Antenna installation:	External antenna*3
Antenna Gain:	Antenna A & B&C: 5.67dBi
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.
Power supply:	DC12V

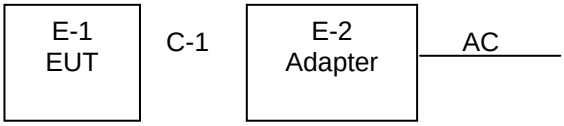
4.2 Test Setup Configuration

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	MOFI6500	N/A	MOFI6500-5GXeLTE	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	Auxiliary

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

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 (5745-5825MHz):

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

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

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

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a /n/ ac/ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac/ax40 CH 151 / CH 159
Mode 3	802.11 ac/ax80 CH 155
Mode 4	Link Mode

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	**CMD**		
Parameters	DEF	DEF	DEF

4.7 Antenna

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	External antenna	5.67	N/A
B	N/A	N/A	External antenna	5.67	N/A
C	N/A	N/A	External antenna	5.67	N/A

EUT has three External antennas with Max gain GANT 5.67dBi on every antenna, CDD device with one spatial streams, also can operat with one spatial streams according to KDB662911 D01 v02r01,

Directional gain = GANT + 10 log (NANT) dBi=5.67+10log (3) =10.441dBi

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

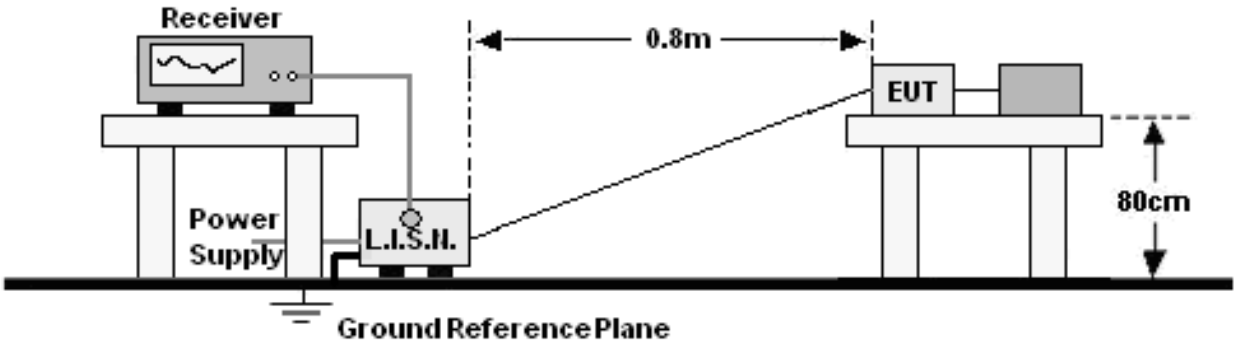
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power Metter	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	\	May 15, 2023	May 14, 2024

Radiated Emissions Test (966 Chamber)					
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	SKET	LAPA_01G18G-45dB	\	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 15, 2023	May 14, 2024
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 15, 2023	May 14, 2024
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 15, 2023	May 14, 2024
RF cables1(9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-0008	May 15, 2023	May 14, 2024
RF cables2(30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 15, 2023	May 14, 2024
RF cables3(1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 15, 2023	May 14, 2024
Power Metter	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	\	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: 1. *Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.		

6.3 Test Procedure

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

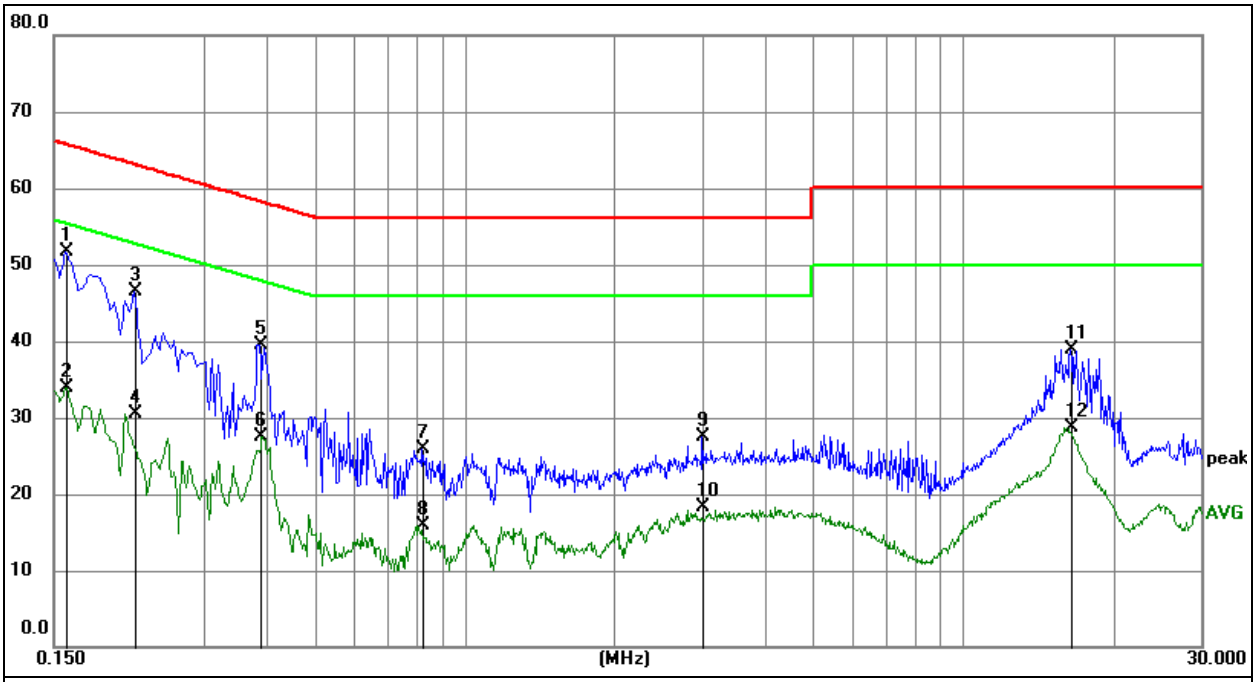
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

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

6.5 Test Result

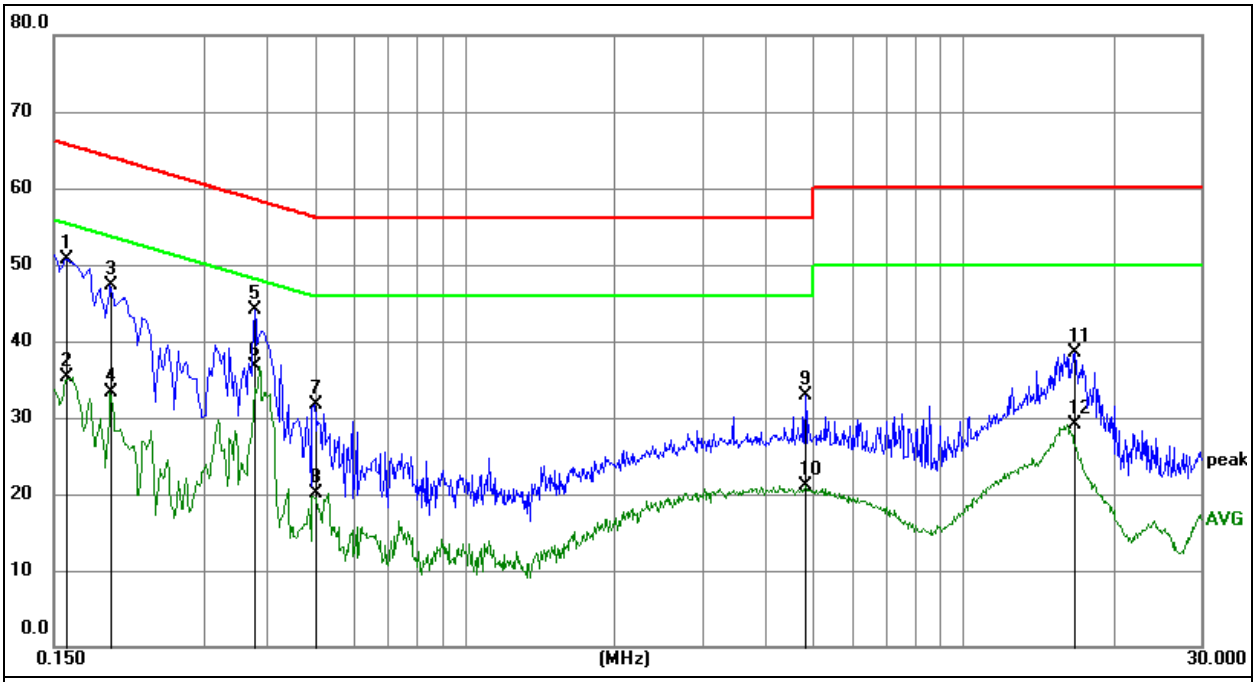
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120/60Hz
Test Mode:	Mode 4	Polarization :	L



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	Measure-ment	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1590	41.58	10.18	51.76	65.52	-13.76	QP	
2		0.1590	23.79	10.18	33.97	55.52	-21.55	AVG	
3		0.2175	36.32	10.19	46.51	62.91	-16.40	QP	
4		0.2175	20.35	10.19	30.54	52.91	-22.37	AVG	
5		0.3885	29.41	10.18	39.59	58.10	-18.51	QP	
6		0.3885	17.35	10.18	27.53	48.10	-20.57	AVG	
7		0.8250	15.81	10.19	26.00	56.00	-30.00	QP	
8		0.8250	5.65	10.19	15.84	46.00	-30.16	AVG	
9		2.9985	17.35	10.17	27.52	56.00	-28.48	QP	
10		2.9985	8.09	10.17	18.26	46.00	-27.74	AVG	
11		16.4175	28.56	10.43	38.99	60.00	-21.01	QP	
12		16.4175	18.24	10.43	28.67	50.00	-21.33	AVG	

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120/60Hz
Test Mode:	Mode 4	Polarization :	N



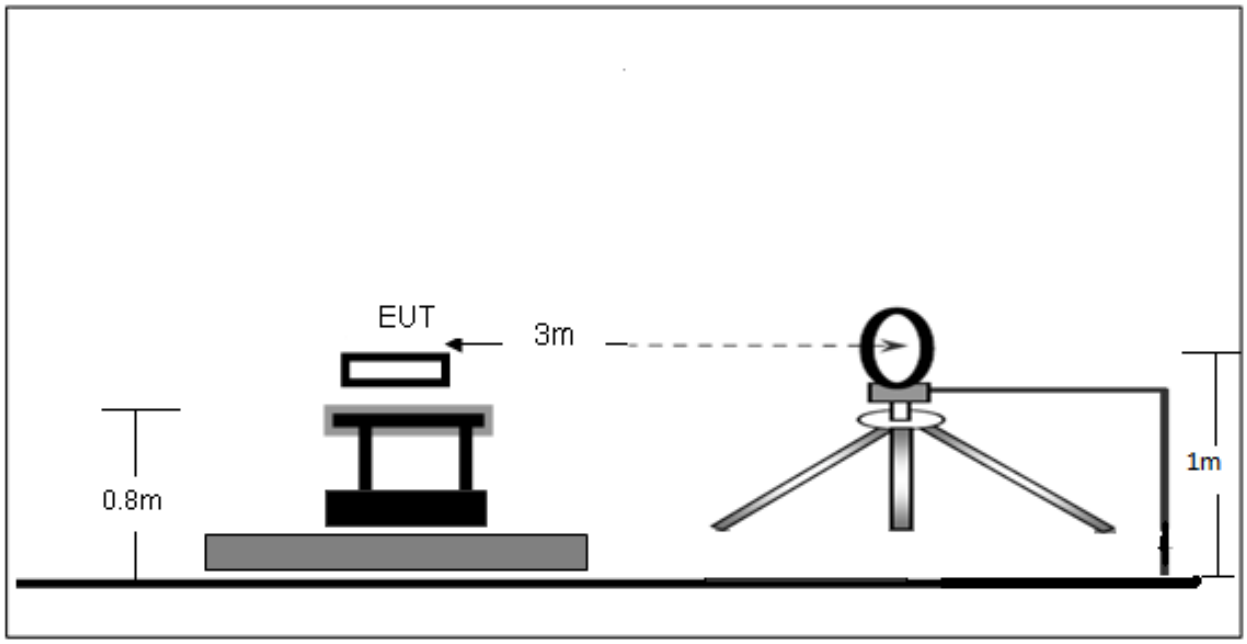
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1		0.1582	40.58	10.18	50.76	65.56	-14.80	QP	
2		0.1582	25.07	10.18	35.25	55.56	-20.31	AVG	
3		0.1945	37.16	10.19	47.35	63.84	-16.49	QP	
4		0.1945	23.04	10.19	33.23	53.84	-20.61	AVG	
5		0.3791	33.90	10.18	44.08	58.30	-14.22	QP	
6	*	0.3791	26.51	10.18	36.69	48.30	-11.61	AVG	
7		0.4994	21.44	10.19	31.63	56.01	-24.38	QP	
8		0.4994	9.99	10.19	20.18	46.01	-25.83	AVG	
9		4.8224	22.42	10.41	32.83	56.00	-23.17	QP	
10		4.8224	10.74	10.41	21.15	46.00	-24.85	AVG	
11		16.7497	28.16	10.43	38.59	60.00	-21.41	QP	
12		16.7497	18.66	10.43	29.09	50.00	-20.91	AVG	

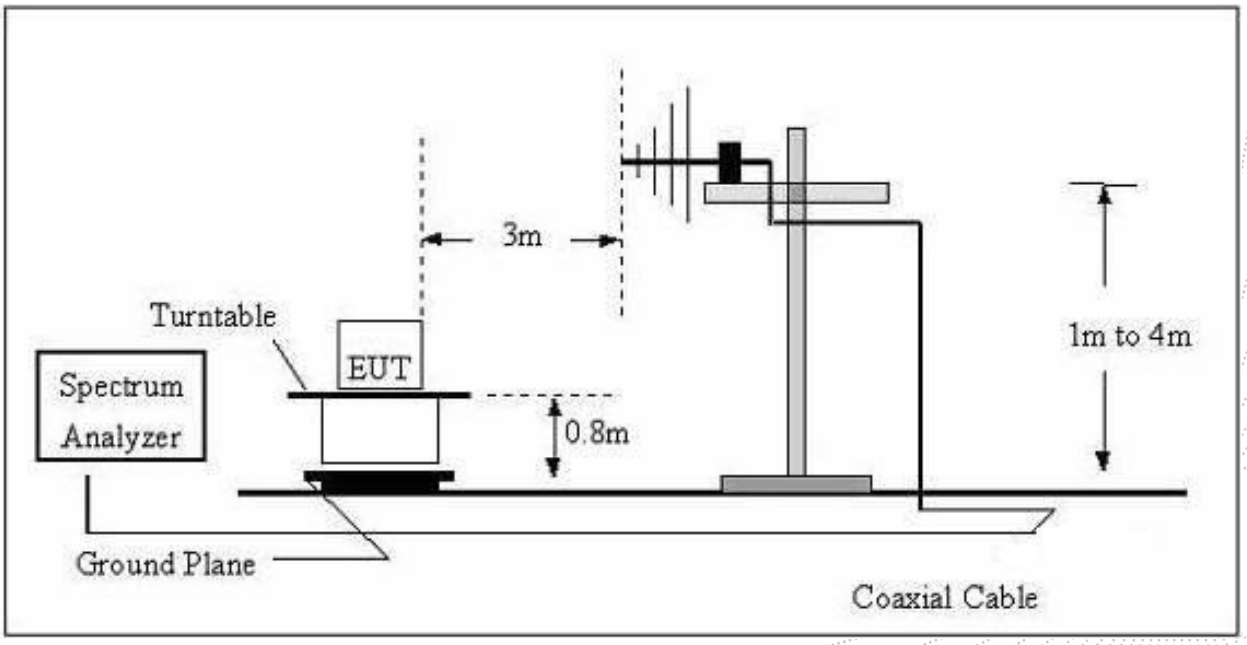
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

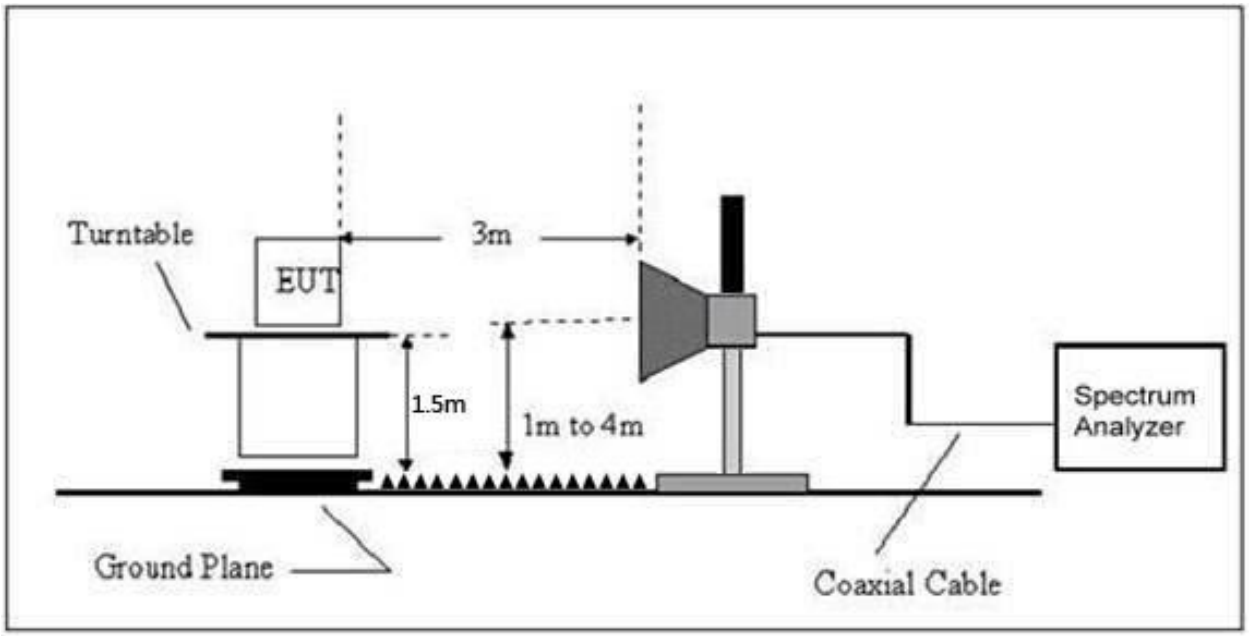
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))}$ + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))}$ + 40
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)}$ + 40
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:
(1)The limit for radiated test was performed according to FCC PART 15C.
(2)The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.
It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

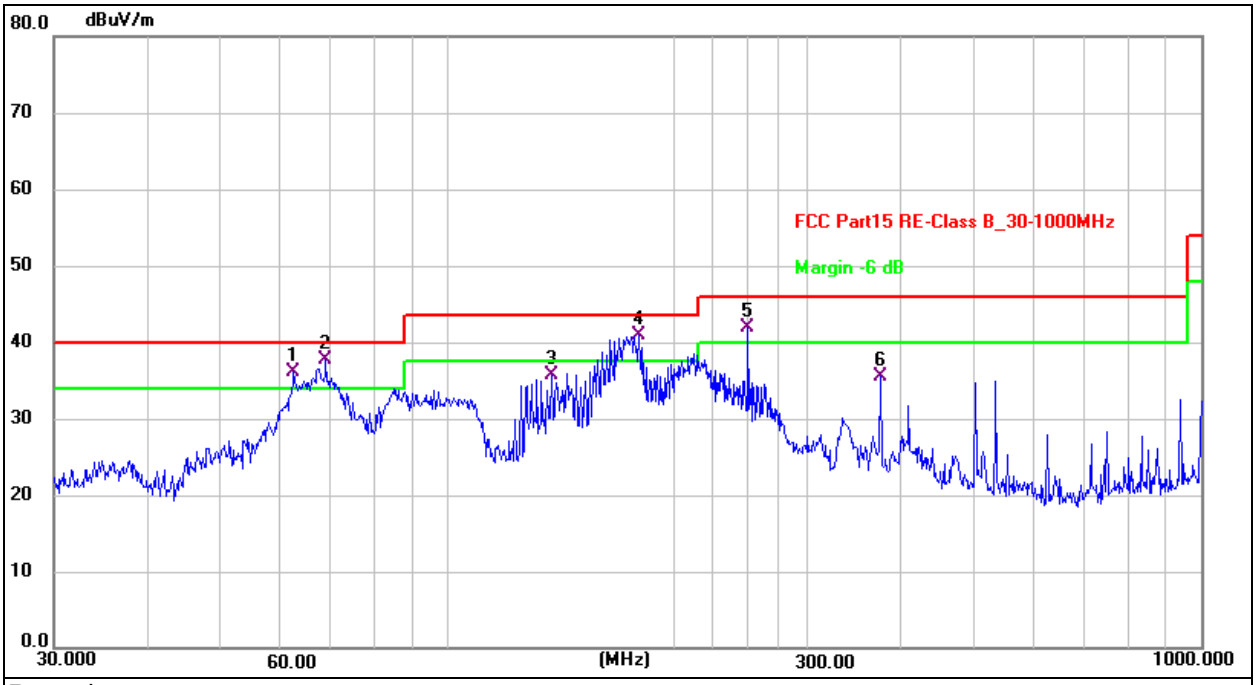
Temperature:	26℃	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage:	DC12V
Test Mode:	Mode 4	Polarization:	--

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

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

Between 30MHz – 1GHz

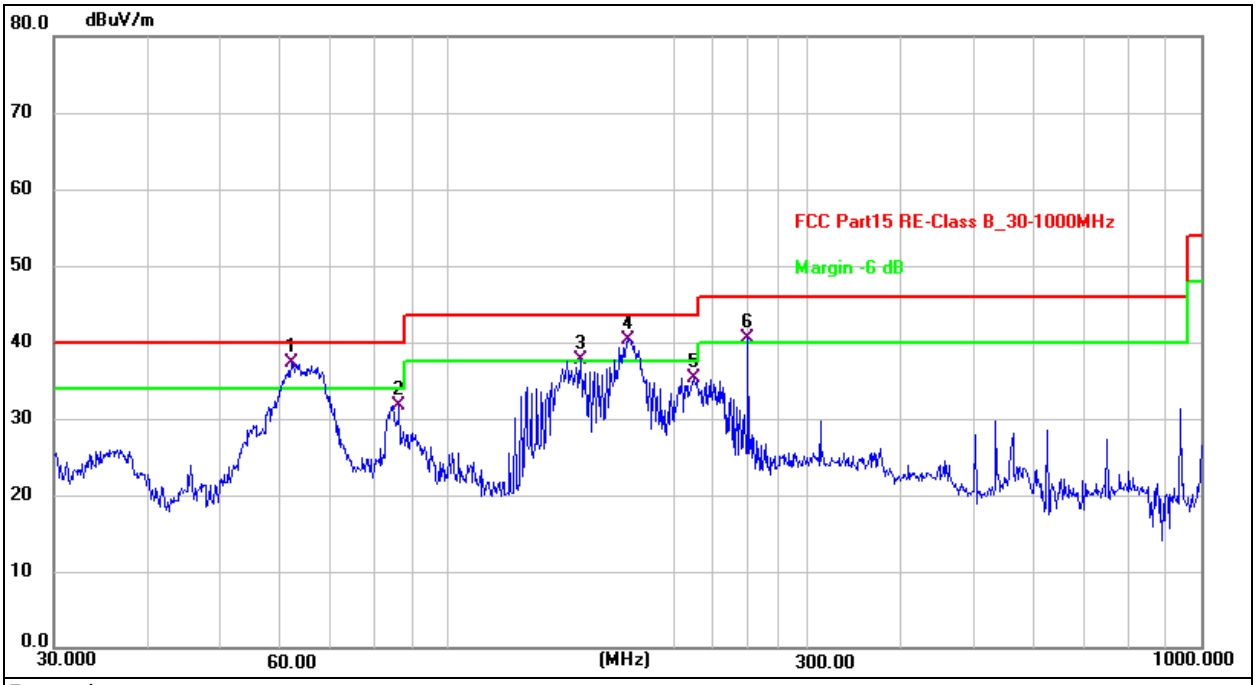
Temperature：	26℃	Relative Humidity：	54%
Pressure：	101 kPa	Test Voltage ：	DC12V
Test Mode ：	Mode 4	Polarization :	Horizontal



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	62.4313	54.28	-18.17	36.11	40.00	-3.89	QP
2 *	68.8721	56.72	-18.92	37.80	40.00	-2.20	QP
3	137.4200	53.69	-17.95	35.74	43.50	-7.76	QP
4 !	179.3863	59.12	-18.25	40.87	43.50	-2.63	QP
5 !	250.3010	60.72	-18.90	41.82	46.00	-4.18	QP
6	375.9384	50.28	-14.73	35.55	46.00	-10.45	QP

Temperature：	26℃	Relative Humidity：	54%
Pressure：	101 kPa	Test Voltage ：	DC12V
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.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	61.9950	55.37	-18.12	37.25	40.00	-2.75	QP
2	86.2000	52.66	-20.88	31.78	40.00	-8.22	QP
3 !	150.0107	55.01	-17.31	37.70	43.50	-5.80	QP
4 !	173.8135	58.08	-17.77	40.31	43.50	-3.19	QP
5	212.2692	55.50	-20.16	35.34	43.50	-8.16	QP
6 !	250.3010	59.49	-18.90	40.59	46.00	-5.41	QP

Test Mode:	TX(5.8G) - 802.11a

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.106	72.72	-20.24	52.48	74	-21.52	Pk
Vertical	4679.106	59.33	-20.24	39.09	54	-14.91	AV
Vertical	11490.182	63.18	-8.79	54.39	68.2	-13.81	Pk
Vertical	11490.182	49.40	-8.79	40.61	54	-13.39	AV
Vertical	17235.118	58.08	-3.18	54.90	68.2	-13.30	Pk
Vertical	17235.118	44.74	-3.18	41.56	54	-12.44	AV
Horizontal	4679.087	73.86	-20.73	53.13	74	-20.87	Pk
Horizontal	4679.087	59.49	-20.73	38.76	54	-15.24	AV
Horizontal	11490.081	60.00	-8.79	51.21	68.2	-16.99	Pk
Horizontal	11490.081	49.39	-8.79	40.60	54	-13.40	AV
Horizontal	17235.081	59.26	-3.18	56.08	68.2	-12.12	Pk
Horizontal	17235.081	44.45	-3.18	41.27	54	-12.73	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.164	70.54	-20.42	50.13	74	-23.87	Pk
Vertical	4592.164	59.73	-20.42	39.31	54	-14.69	AV
Vertical	11570.082	61.13	-8.86	52.27	68.2	-15.93	Pk
Vertical	11570.082	49.88	-8.86	41.02	54	-12.98	AV
Vertical	17355.035	55.69	-2.52	53.17	68.2	-15.03	Pk
Vertical	17355.035	44.09	-2.52	41.57	54	-12.43	AV
Horizontal	4592.062	70.60	-20.42	50.18	74	-23.82	Pk
Horizontal	4592.062	59.52	-20.42	39.10	54	-14.90	AV
Horizontal	11570.008	60.69	-8.86	51.83	68.2	-16.37	Pk
Horizontal	11570.008	49.99	-8.86	41.13	54	-12.87	AV
Horizontal	17355.009	58.42	-2.52	55.90	68.2	-12.30	Pk
Horizontal	17355.009	44.32	-2.52	41.80	54	-12.20	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.139	70.28	-18.93	51.35	68.2	-16.85	Pk
Vertical	6039.139	59.07	-18.93	40.14	54	-13.86	AV
Vertical	11650.105	62.45	-8.92	53.53	74	-20.47	Pk
Vertical	11650.105	49.17	-8.92	40.25	54	-13.75	AV
Vertical	17475.159	59.21	-1.86	57.35	68.2	-10.85	Pk
Vertical	17475.159	44.23	-1.86	42.37	54	-11.63	AV
Horizontal	6039.093	74.51	-18.93	55.58	68.2	-12.62	Pk
Horizontal	6039.093	59.20	-18.93	40.27	54	-13.73	AV
Horizontal	11650.148	63.97	-8.92	55.05	74	-18.95	Pk
Horizontal	11650.148	49.36	-8.92	40.44	54	-13.56	AV
Horizontal	17475.071	55.29	-1.86	53.43	68.2	-14.77	Pk
Horizontal	17475.071	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.
The worst case is Antenna A.

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.174	72.09	-20.24	51.85	74	-22.15	Pk
Vertical	4679.174	59.78	-20.24	39.54	54	-14.46	AV
Vertical	11490.142	61.39	-8.79	52.60	68.2	-15.60	Pk
Vertical	11490.142	49.31	-8.79	40.52	54	-13.48	AV
Vertical	17235.141	58.67	-3.18	55.49	68.2	-12.71	Pk
Vertical	17235.141	44.35	-3.18	41.17	54	-12.83	AV
Horizontal	4679.120	70.11	-20.24	49.87	74	-24.13	Pk
Horizontal	4679.120	59.46	-20.24	39.22	54	-14.78	AV
Horizontal	11490.098	64.87	-8.79	56.08	68.2	-12.12	Pk
Horizontal	11490.098	49.35	-8.79	40.56	54	-13.44	AV
Horizontal	17235.049	57.72	-3.18	54.54	68.2	-13.66	Pk
Horizontal	17235.049	44.80	-3.18	41.62	54	-12.38	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.078	72.81	-20.42	52.40	74	-21.60	Pk
Vertical	4592.078	59.82	-20.42	39.40	54	-14.60	AV
Vertical	11570.188	62.58	-8.86	53.72	68.2	-14.48	Pk
Vertical	11570.188	49.48	-8.86	40.62	54	-13.38	AV
Vertical	17355.078	55.84	-2.52	53.32	68.2	-14.88	Pk
Vertical	17355.078	44.81	-2.52	42.29	54	-11.71	AV
Horizontal	4592.099	74.32	-20.42	53.90	74	-20.10	Pk
Horizontal	4592.099	59.34	-20.42	38.92	54	-15.08	AV
Horizontal	11570.175	63.22	-8.86	54.36	68.2	-13.84	Pk
Horizontal	11570.175	49.24	-8.86	40.38	54	-13.62	AV
Horizontal	17355.074	59.21	-2.52	56.69	68.2	-11.51	Pk
Horizontal	17355.074	44.46	-2.52	41.94	54	-12.06	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.054	74.43	-18.93	55.50	68.2	-12.70	Pk
Vertical	6039.054	59.31	-18.93	40.38	54	-13.62	AV
Vertical	11650.097	63.61	-8.92	54.69	74	-19.31	Pk
Vertical	11650.097	49.91	-8.92	40.99	54	-13.01	AV
Vertical	17475.159	59.30	-1.86	57.44	68.2	-10.76	Pk
Vertical	17475.159	44.76	-1.86	42.90	54	-11.10	AV
Horizontal	6039.084	71.93	-18.93	53.00	68.2	-15.20	Pk
Horizontal	6039.084	59.62	-18.93	40.69	54	-13.31	AV
Horizontal	11650.128	64.00	-8.92	55.08	74	-18.92	Pk
Horizontal	11650.128	49.09	-8.92	40.17	54	-13.83	AV
Horizontal	17475.183	56.49	-1.86	54.63	68.2	-13.57	Pk
Horizontal	17475.183	44.19	-1.86	42.33	54	-11.67	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.056	71.19	-20.24	50.95	74	-23.05	AV
Vertical	4679.056	59.84	-20.24	39.59	54	-14.41	Pk
Vertical	11510.185	61.77	-8.81	52.96	74	-21.04	AV
Vertical	11510.185	49.10	-8.81	40.29	54	-13.71	Pk
Vertical	17265.132	59.27	-3.01	56.26	68.2	-11.94	AV
Vertical	17265.132	44.70	-3.01	41.69	54	-12.31	Pk
Horizontal	4679.039	74.79	-20.24	54.54	74	-19.46	AV
Horizontal	4679.039	59.58	-20.24	39.34	54	-14.66	Pk
Horizontal	11510.059	62.09	-8.81	53.28	74	-20.72	AV
Horizontal	11510.059	49.74	-8.81	40.93	54	-13.07	Pk
Horizontal	17265.005	59.62	-3.01	56.61	68.2	-11.59	AV
Horizontal	17265.005	44.79	-3.01	41.78	54	-12.22	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.111	73.63	-18.93	54.70	68.2	-13.50	Pk
Vertical	6039.111	59.88	-18.93	40.95	54	-13.05	AV
Vertical	11590.055	62.61	-8.87	53.74	74	-20.26	Pk
Vertical	11590.055	49.97	-8.87	41.10	54	-12.90	AV
Vertical	17385.043	59.00	-2.35	56.65	68.2	-11.55	Pk
Vertical	17385.043	44.65	-2.35	42.30	54	-11.70	AV
Horizontal	6039.138	74.12	-18.93	55.19	68.2	-13.01	Pk
Horizontal	6039.138	59.56	-18.93	40.62	54	-13.38	AV
Horizontal	11590.064	61.30	-8.87	52.43	74	-21.57	Pk
Horizontal	11590.064	49.66	-8.87	40.79	54	-13.21	AV
Horizontal	17385.039	55.29	-2.35	52.94	68.2	-15.26	Pk
Horizontal	17385.039	44.17	-2.35	41.82	54	-12.18	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.067	71.04	-20.24	50.80	74	-23.20	Pk
Vertical	4679.067	59.09	-20.24	38.85	54	-15.15	AV
Vertical	11490.037	63.83	-8.79	55.04	68.2	-13.16	Pk
Vertical	11490.037	49.02	-8.79	40.23	54	-13.77	AV
Vertical	17235.117	56.65	-3.18	53.47	68.2	-14.73	Pk
Vertical	17235.117	44.93	-3.18	41.75	54	-12.25	AV
Horizontal	4679.046	70.13	-20.24	49.89	74	-24.11	Pk
Horizontal	4679.046	59.97	-20.24	39.73	54	-14.27	AV
Horizontal	11490.139	63.63	-8.79	54.84	68.2	-13.36	Pk
Horizontal	11490.139	49.76	-8.79	40.97	54	-13.03	AV
Horizontal	17235.002	59.82	-3.18	56.64	68.2	-11.56	Pk
Horizontal	17235.002	44.99	-3.18	41.81	54	-12.19	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.138	70.14	-20.42	49.72	74	-24.28	Pk
Vertical	4592.138	59.49	-20.42	39.07	54	-14.93	AV
Vertical	11570.154	61.32	-8.86	52.46	68.2	-15.74	Pk
Vertical	11570.154	49.68	-8.86	40.82	54	-13.18	AV
Vertical	17355.171	56.71	-2.52	54.19	68.2	-14.01	Pk
Vertical	17355.171	44.67	-2.52	42.15	54	-11.85	AV
Horizontal	4592.072	71.45	-20.42	51.03	74	-22.97	Pk
Horizontal	4592.072	59.33	-20.42	38.91	54	-15.09	AV
Horizontal	11570.124	64.61	-8.86	55.75	68.2	-12.45	Pk
Horizontal	11570.124	49.16	-8.86	40.30	54	-13.70	AV
Horizontal	17355.134	58.54	-2.52	56.02	68.2	-12.18	Pk
Horizontal	17355.134	44.65	-2.52	42.13	54	-11.87	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.195	73.47	-18.93	54.54	68.2	-13.66	Pk
Vertical	6039.195	59.66	-18.93	40.73	54	-13.27	AV
Vertical	11650.109	63.88	-8.92	54.96	74	-19.04	Pk
Vertical	11650.109	49.64	-8.92	40.72	54	-13.28	AV
Vertical	17475.074	58.38	-1.86	56.52	68.2	-11.68	Pk
Vertical	17475.074	44.06	-1.86	42.20	54	-11.80	AV
Horizontal	6039.198	74.02	-18.93	55.08	68.2	-13.12	Pk
Horizontal	6039.198	59.68	-18.93	40.75	54	-13.25	AV
Horizontal	11650.194	60.55	-8.92	51.63	74	-22.37	Pk
Horizontal	11650.194	49.25	-8.92	40.33	54	-13.67	AV
Horizontal	17475.002	58.56	-1.86	56.70	68.2	-11.50	Pk
Horizontal	17475.002	44.03	-1.86	42.17	54	-11.83	AV

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

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

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.053	72.65	-20.24	52.41	74	-21.59	AV
Vertical	4679.053	59.58	-20.24	39.34	54	-14.66	Pk
Vertical	11510.086	63.41	-8.81	54.60	74	-19.40	AV
Vertical	11510.086	49.23	-8.81	40.42	54	-13.58	Pk
Vertical	17265.104	56.88	-3.01	53.87	68.2	-14.33	AV
Vertical	17265.104	44.35	-3.01	41.34	54	-12.66	Pk
Horizontal	4679.099	72.49	-20.24	52.25	74	-21.75	AV
Horizontal	4679.099	59.33	-20.24	39.08	54	-14.92	Pk
Horizontal	11510.044	62.87	-8.81	54.06	74	-19.94	AV
Horizontal	11510.044	49.80	-8.81	40.99	54	-13.01	Pk
Horizontal	17265.037	58.09	-3.01	55.08	68.2	-13.12	AV
Horizontal	17265.037	44.07	-3.01	41.06	54	-12.94	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.173	74.51	-18.93	55.58	68.2	-12.62	Pk
Vertical	6039.173	59.10	-18.93	40.17	54	-13.83	AV
Vertical	11590.031	62.67	-8.87	53.80	74	-20.20	Pk
Vertical	11590.031	49.41	-8.87	40.54	54	-13.46	AV
Vertical	17385.129	57.84	-2.35	55.49	68.2	-12.71	Pk
Vertical	17385.129	44.79	-2.35	42.44	54	-11.56	AV
Horizontal	6039.095	74.12	-18.93	55.18	68.2	-13.02	Pk
Horizontal	6039.095	59.37	-18.93	40.44	54	-13.56	AV
Horizontal	11590.035	64.22	-8.87	55.35	74	-18.65	Pk
Horizontal	11590.035	49.54	-8.87	40.67	54	-13.33	AV
Horizontal	17385.023	55.12	-2.35	52.77	68.2	-15.43	Pk
Horizontal	17385.023	44.60	-2.35	42.25	54	-11.75	AV

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

Test Mode:	TX(5.8G) - 802.11ac-HT80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.019	74.00	-20.24	53.75	74	-20.25	Pk
Vertical	4679.019	59.55	-20.24	39.31	54	-14.69	AV
Vertical	11550.060	61.27	-8.84	52.43	74	-21.57	Pk
Vertical	11550.060	49.36	-8.84	40.52	54	-13.48	AV
Vertical	17325.180	55.27	-2.68	52.59	68.2	-15.61	Pk
Vertical	17325.180	44.06	-2.68	41.38	54	-12.62	AV
Horizontal	4679.183	71.67	-20.24	51.43	74	-22.57	Pk
Horizontal	4679.183	59.86	-20.24	39.62	54	-14.38	AV
Horizontal	11550.186	60.63	-8.84	51.79	74	-22.21	Pk
Horizontal	11550.186	49.77	-8.84	40.93	54	-13.07	AV
Horizontal	17325.119	57.31	-2.68	54.63	68.2	-13.57	Pk
Horizontal	17325.119	44.04	-2.68	41.36	54	-12.64	AV

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

Test Mode:	TX(5.8G) - 802.11ax-HE20

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.130	74.53	-20.24	54.29	74	-19.71	Pk
Vertical	4679.130	59.31	-20.24	39.07	54	-14.93	AV
Vertical	11490.175	60.38	-8.79	51.59	68.2	-16.61	Pk
Vertical	11490.175	49.47	-8.79	40.68	54	-13.32	AV
Vertical	17235.159	59.26	-3.18	56.08	68.2	-12.12	Pk
Vertical	17235.159	44.58	-3.18	41.40	54	-12.60	AV
Horizontal	4679.040	73.12	-20.24	52.88	74	-21.12	Pk
Horizontal	4679.040	59.34	-20.24	39.09	54	-14.91	AV
Horizontal	11490.128	60.83	-8.79	52.04	68.2	-16.16	Pk
Horizontal	11490.128	49.19	-8.79	40.40	54	-13.60	AV
Horizontal	17235.042	59.07	-3.18	55.89	68.2	-12.31	Pk
Horizontal	17235.042	44.32	-3.18	41.14	54	-12.86	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.009	70.92	-20.42	50.50	74	-23.50	Pk
Vertical	4592.009	59.66	-20.42	39.25	54	-14.75	AV
Vertical	11570.045	64.58	-8.86	55.72	68.2	-12.48	Pk
Vertical	11570.045	49.20	-8.86	40.34	54	-13.66	AV
Vertical	17355.121	58.11	-2.52	55.59	68.2	-12.61	Pk
Vertical	17355.121	44.77	-2.52	42.25	54	-11.75	AV
Horizontal	4592.183	73.57	-20.42	53.15	74	-20.85	Pk
Horizontal	4592.183	59.71	-20.42	39.30	54	-14.70	AV
Horizontal	11570.046	64.89	-8.86	56.03	68.2	-12.17	Pk
Horizontal	11570.046	49.42	-8.86	40.56	54	-13.44	AV
Horizontal	17355.003	56.03	-2.52	53.51	68.2	-14.69	Pk
Horizontal	17355.003	44.42	-2.52	41.90	54	-12.10	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.177	74.51	-18.93	55.58	68.2	-12.62	Pk
Vertical	6039.177	59.46	-18.93	40.53	54	-13.47	AV
Vertical	11650.169	60.93	-8.92	52.01	74	-21.99	Pk
Vertical	11650.169	49.07	-8.92	40.15	54	-13.85	AV
Vertical	17475.193	58.98	-1.86	57.12	68.2	-11.08	Pk
Vertical	17475.193	44.95	-1.86	43.09	54	-10.91	AV
Horizontal	6039.108	71.82	-18.93	52.89	68.2	-15.31	Pk
Horizontal	6039.108	59.13	-18.93	40.20	54	-13.80	AV
Horizontal	11650.020	60.18	-8.92	51.26	74	-22.74	Pk
Horizontal	11650.020	49.36	-8.92	40.44	54	-13.56	AV
Horizontal	17475.192	59.60	-1.86	57.74	68.2	-10.46	Pk
Horizontal	17475.192	44.48	-1.86	42.62	54	-11.38	AV

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

Test Mode:	TX(5.8G) - 802.11ax-HE40

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.132	72.22	-20.24	51.97	74	-22.03	AV
Vertical	4679.132	59.68	-20.24	39.43	54	-14.57	Pk
Vertical	11510.194	60.78	-8.81	51.97	74	-22.03	AV
Vertical	11510.194	49.33	-8.81	40.52	54	-13.48	Pk
Vertical	17265.142	57.82	-3.01	54.81	68.2	-13.39	AV
Vertical	17265.142	44.58	-3.01	41.57	54	-12.43	Pk
Horizontal	4679.001	70.05	-20.24	49.81	74	-24.19	AV
Horizontal	4679.001	59.37	-20.24	39.13	54	-14.87	Pk
Horizontal	11510.082	63.64	-8.81	54.83	74	-19.17	AV
Horizontal	11510.082	49.70	-8.81	40.89	54	-13.11	Pk
Horizontal	17265.070	57.98	-3.01	54.97	68.2	-13.23	AV
Horizontal	17265.070	44.66	-3.01	41.65	54	-12.35	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.052	70.81	-18.93	51.88	68.2	-16.32	Pk
Vertical	6039.052	59.98	-18.93	41.05	54	-12.95	AV
Vertical	11590.089	60.05	-8.87	51.18	74	-22.82	Pk
Vertical	11590.089	49.60	-8.87	40.73	54	-13.27	AV
Vertical	17385.051	55.16	-2.35	52.81	68.2	-15.39	Pk
Vertical	17385.051	44.89	-2.35	42.54	54	-11.46	AV
Horizontal	6039.054	72.04	-18.93	53.11	68.2	-15.09	Pk
Horizontal	6039.054	59.52	-18.93	40.59	54	-13.41	AV
Horizontal	11590.065	62.35	-8.87	53.48	74	-20.52	Pk
Horizontal	11590.065	49.96	-8.87	41.09	54	-12.91	AV
Horizontal	17385.169	56.03	-2.35	53.68	68.2	-14.52	Pk
Horizontal	17385.169	44.30	-2.35	41.95	54	-12.05	AV

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

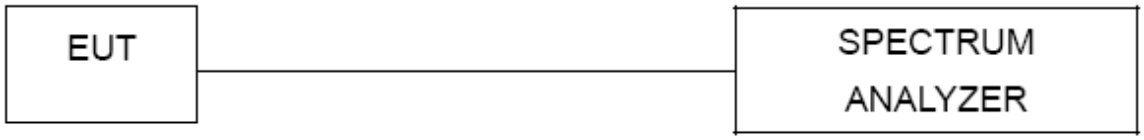
Test Mode:	TX(5.8G) - 802.11ax-HE80

Polar	Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.008	73.78	-20.24	53.54	74	-20.46	Pk
Vertical	4679.008	59.43	-20.24	39.19	54	-14.81	AV
Vertical	11550.046	64.50	-8.84	55.66	74	-18.34	Pk
Vertical	11550.046	49.13	-8.84	40.29	54	-13.71	AV
Vertical	17325.066	58.27	-2.68	55.59	68.2	-12.61	Pk
Vertical	17325.066	44.12	-2.68	41.44	54	-12.56	AV
Horizontal	4679.153	70.47	-20.24	50.23	74	-23.77	Pk
Horizontal	4679.153	59.70	-20.24	39.46	54	-14.54	AV
Horizontal	11550.025	61.28	-8.84	52.44	74	-21.56	Pk
Horizontal	11550.025	49.78	-8.84	40.94	54	-13.06	AV
Horizontal	17325.152	55.82	-2.68	53.14	68.2	-15.06	Pk
Horizontal	17325.152	44.19	-2.68	41.51	54	-12.49	AV

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

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

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

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

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

For the band 5.725-5.85 GHz

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

8.3 Test Procedure

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

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

8.4 EUT Operating Conditions

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

8.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC12V
Test Mode:	(5745-5825MHz)		

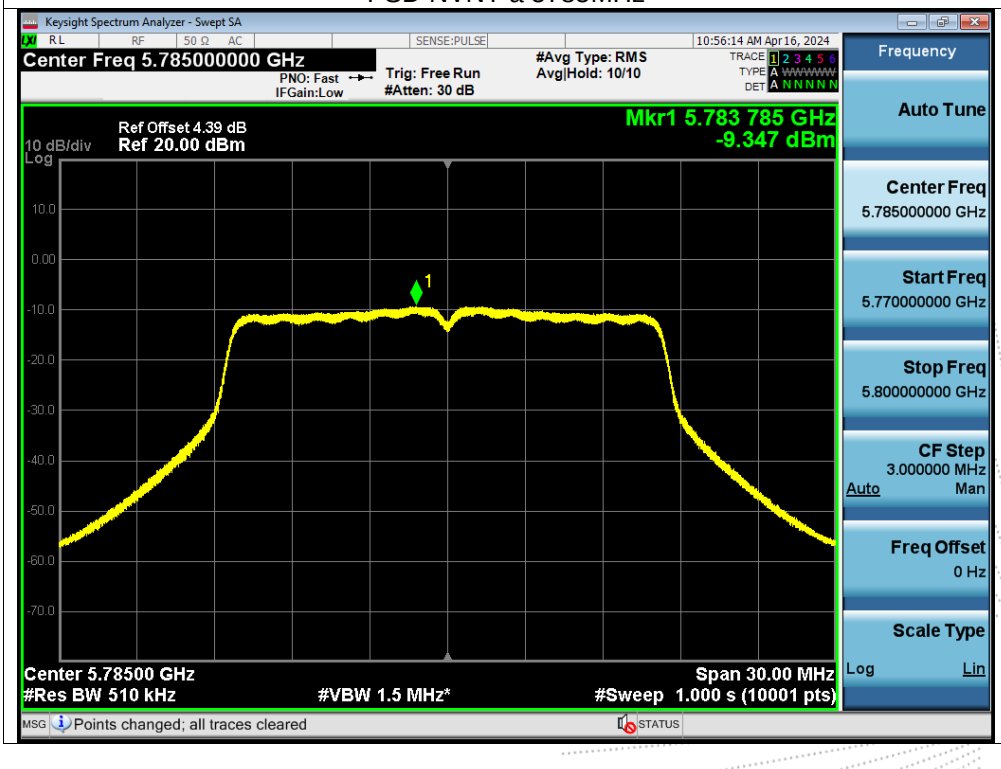
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)			Total (dBm/500KH)	Limit (dBm/500KHz)	Verdict
			Ant A	Ant B	Ant C			
NVNT	a	5745	-9.33	-9.89	-9.55	/	30	Pass
NVNT	a	5785	-9.35	-9.98	-9.92	/	30	Pass
NVNT	a	5825	-9.69	-9.4	-9.59	/	30	Pass
NVNT	n20	5745	-9.91	-9.57	-9.72	-4.96	25.56	Pass
NVNT	n20	5785	-9.15	-9.62	-10.06	-4.82	25.56	Pass
NVNT	n20	5825	-9.89	-9.89	-10.1	-5.19	25.56	Pass
NVNT	n40	5755	-11.74	-11.92	-11.81	-7.05	25.56	Pass
NVNT	n40	5795	-11.43	-11.64	-11.8	-6.85	25.56	Pass
NVNT	ac20	5745	-9.57	-8.62	-9.4	-4.41	25.56	Pass
NVNT	ac20	5785	-10.51	-10.44	-10.56	-5.73	25.56	Pass
NVNT	ac20	5825	-9.92	-10.08	-10.04	-5.24	25.56	Pass
NVNT	ac40	5755	-10.95	-10.04	-10.36	-5.66	25.56	Pass
NVNT	ac40	5795	-13.24	-12.66	-13.01	-8.19	25.56	Pass
NVNT	ac80	5775	-15.56	-15.72	-15.59	-10.85	25.56	Pass
NVNT	ax20	5745	-9.85	-10.54	-10.11	-5.39	25.56	Pass
NVNT	ax20	5785	-9.89	-9.7	-10.2	-5.15	25.56	Pass
NVNT	ax20	5825	-9.98	-10.06	-10.32	-5.35	25.56	Pass
NVNT	ax40	5755	-13.07	-13.12	-13.32	-8.40	25.56	Pass
NVNT	ax40	5795	-13.48	-13.36	-13.33	-8.62	25.56	Pass
NVNT	ax80	5775	-17.11	-15.91	-16.36	-11.66	25.56	Pass

Total：antenna A+ antenna B + antenna C

Ant A:

Test Graphs
PSD NVNT a 5745MHz

PSD NVNT a 5785MHz



PSD NVNT a 5825MHz

PSD NVNT n20 5745MHz

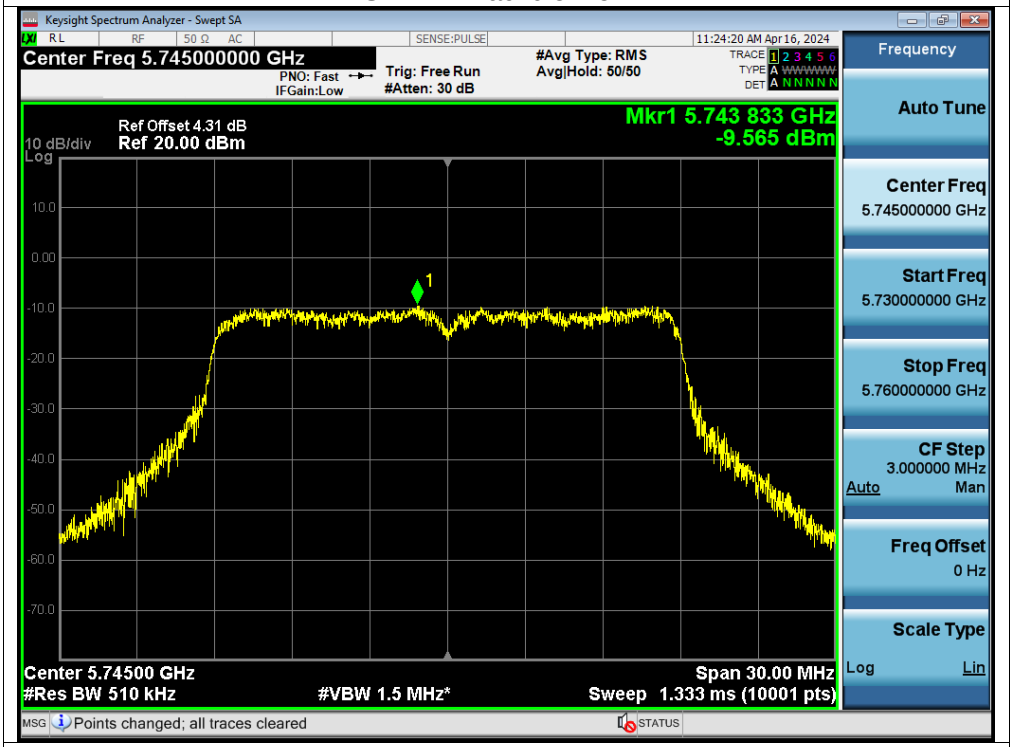
PSD NVNT n20 5785MHz

PSD NVNT n20 5825MHz

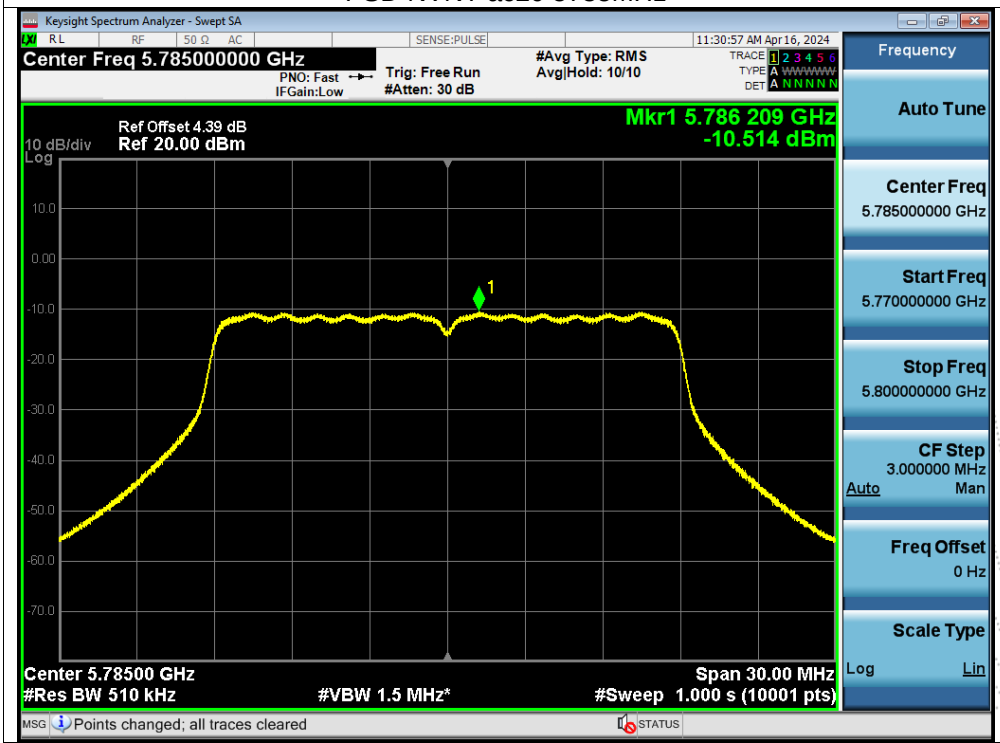
PSD NVNT n40 5755MHz

PSD NVNT n40 5795MHz

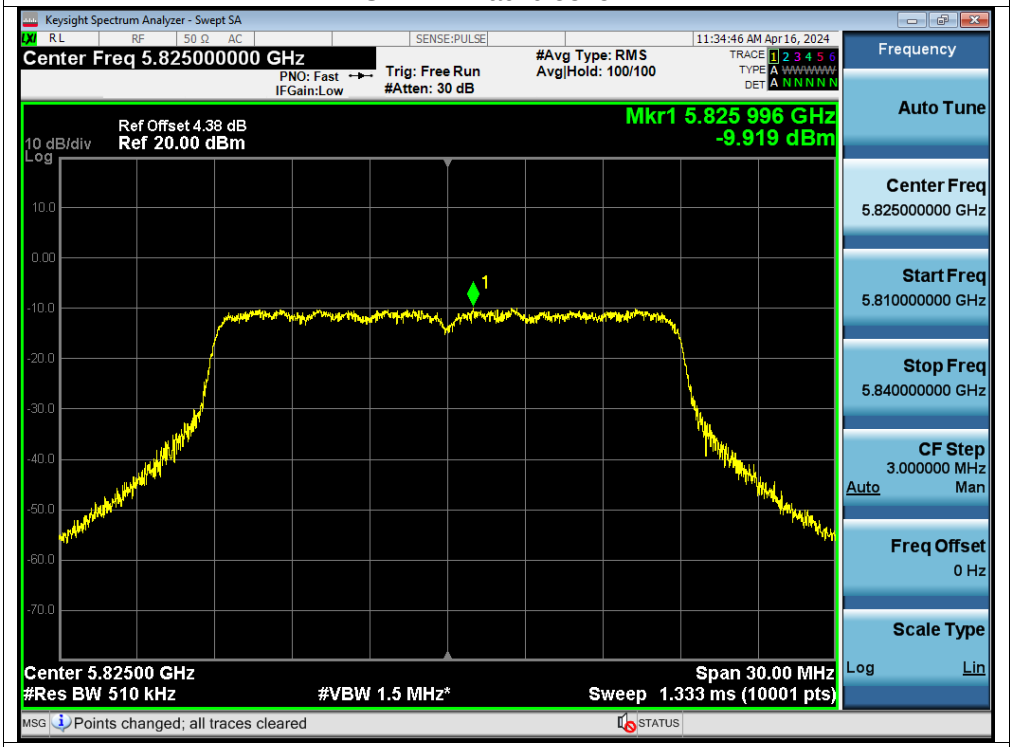
PSD NVNT ac20 5745MHz



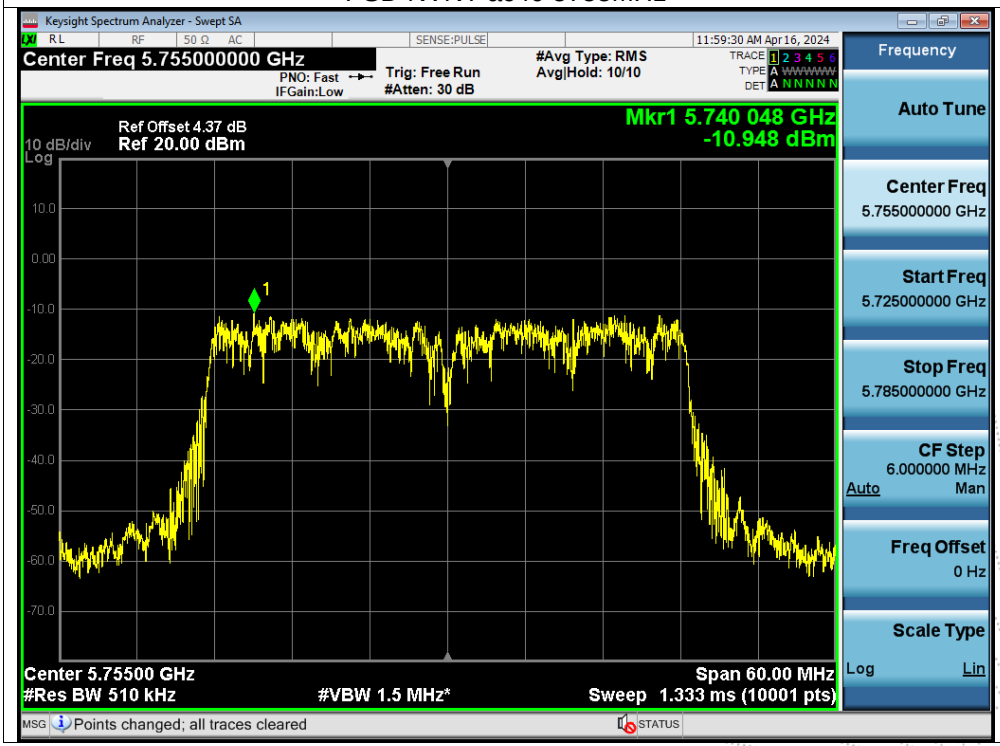
PSD NVNT ac20 5785MHz



PSD NVNT ac20 5825MHz

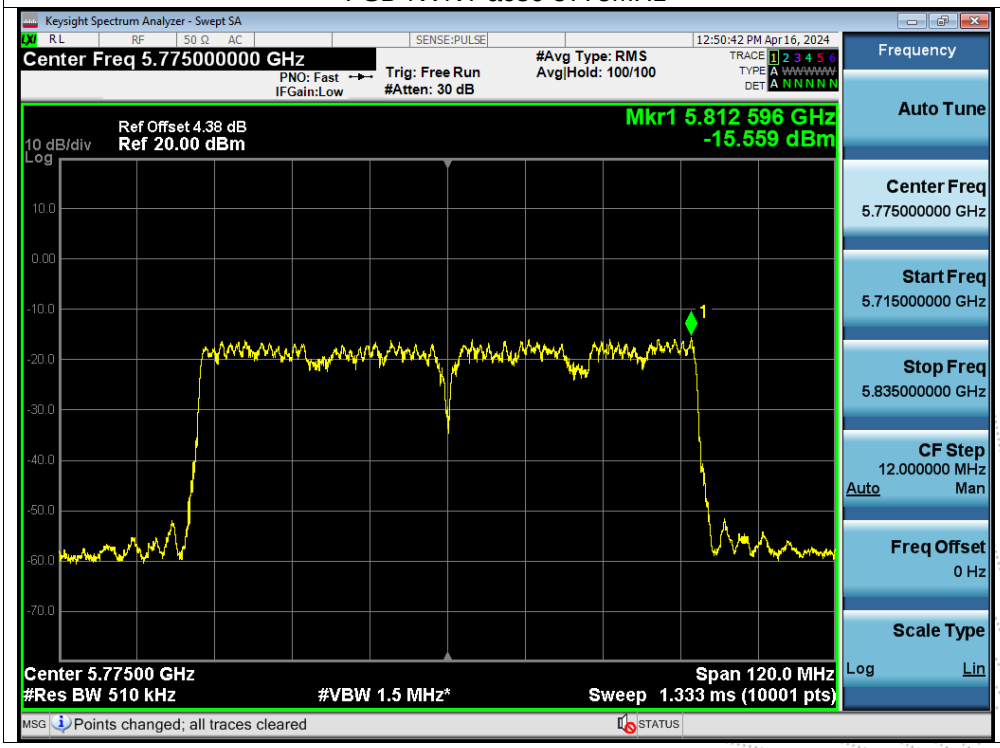


PSD NVNT ac40 5755MHz

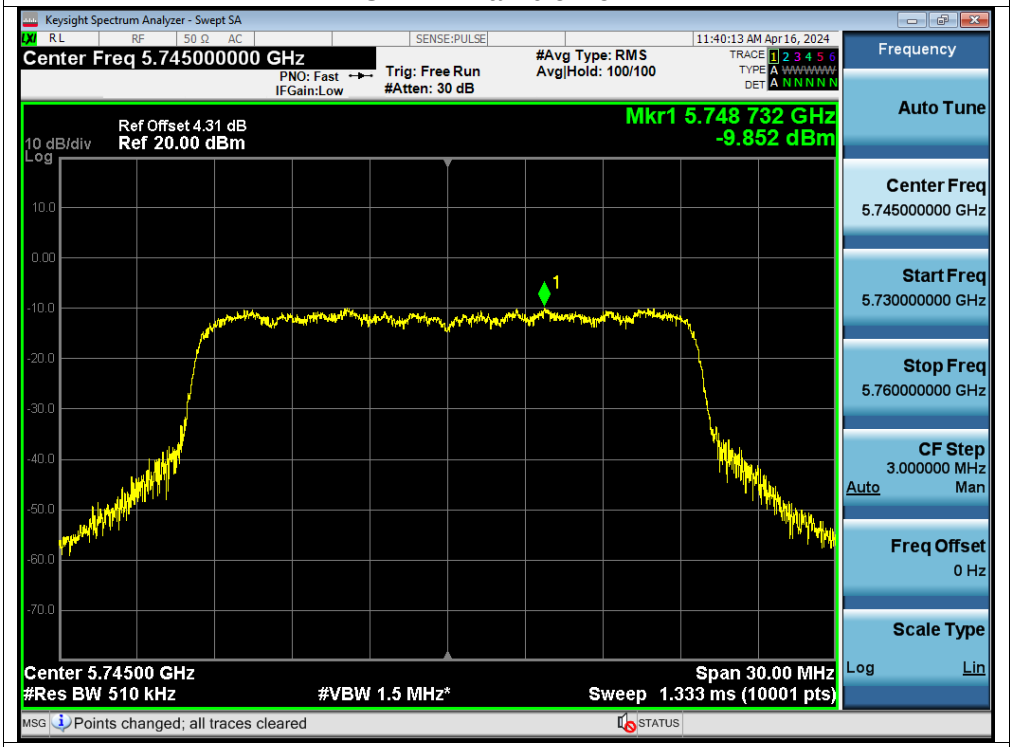


PSD NVNT ac40 5795MHz

PSD NVNT ac80 5775MHz

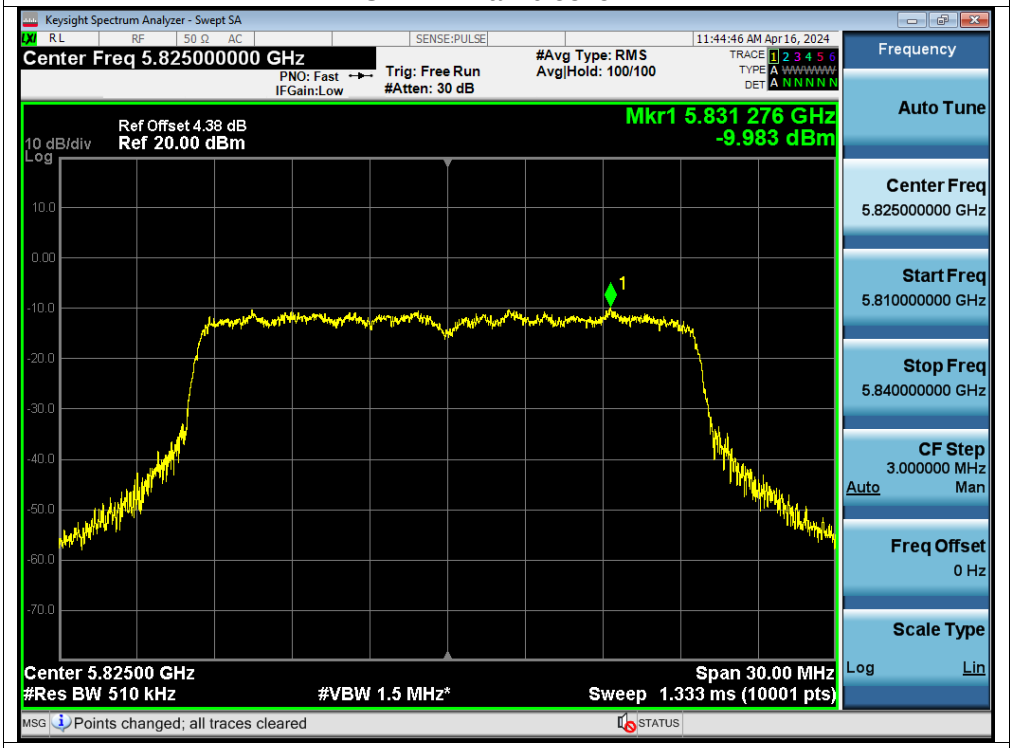


PSD NVNT ax20 5745MHz

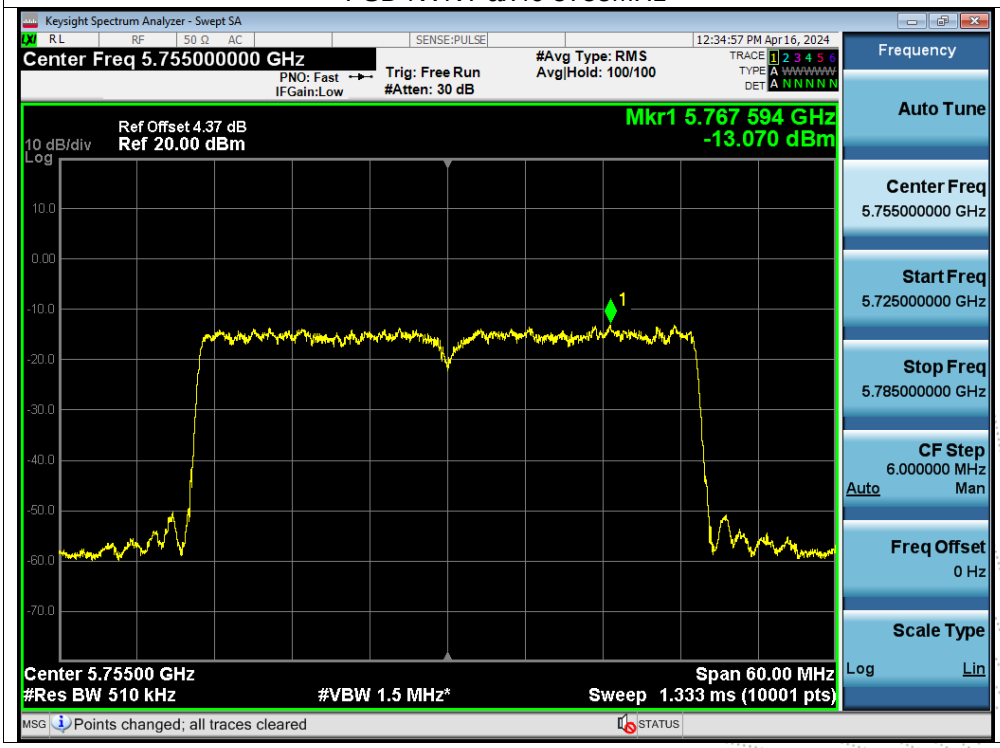


PSD NVNT ax20 5785MHz

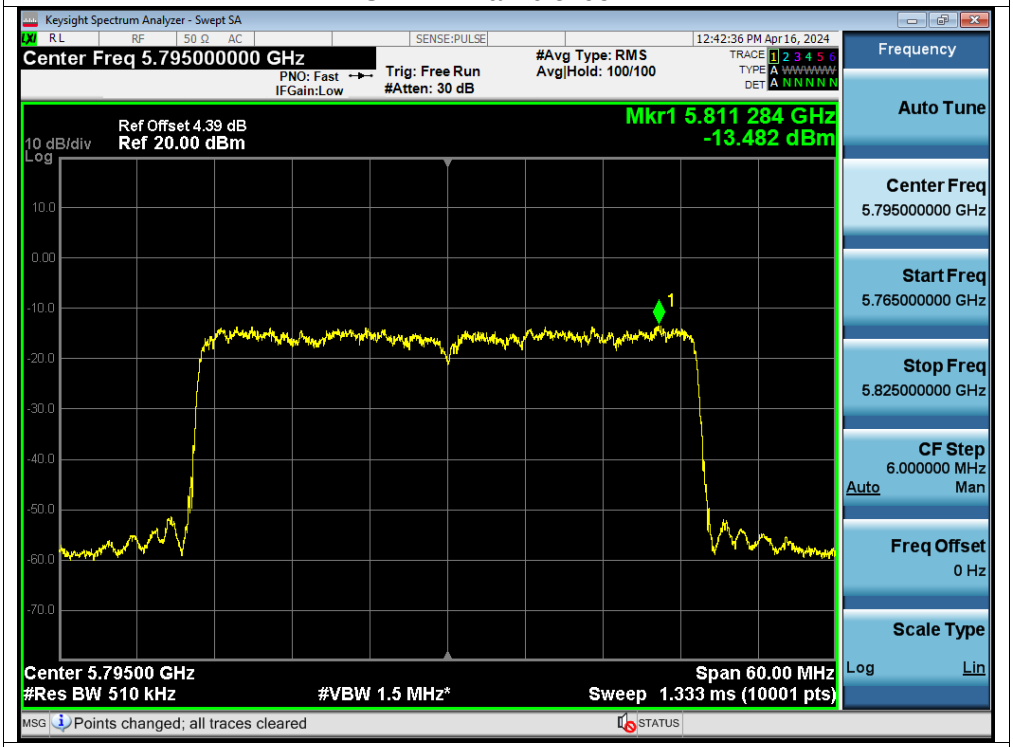
PSD NVNT ax20 5825MHz



PSD NVNT ax40 5755MHz



PSD NVNT ax40 5795MHz

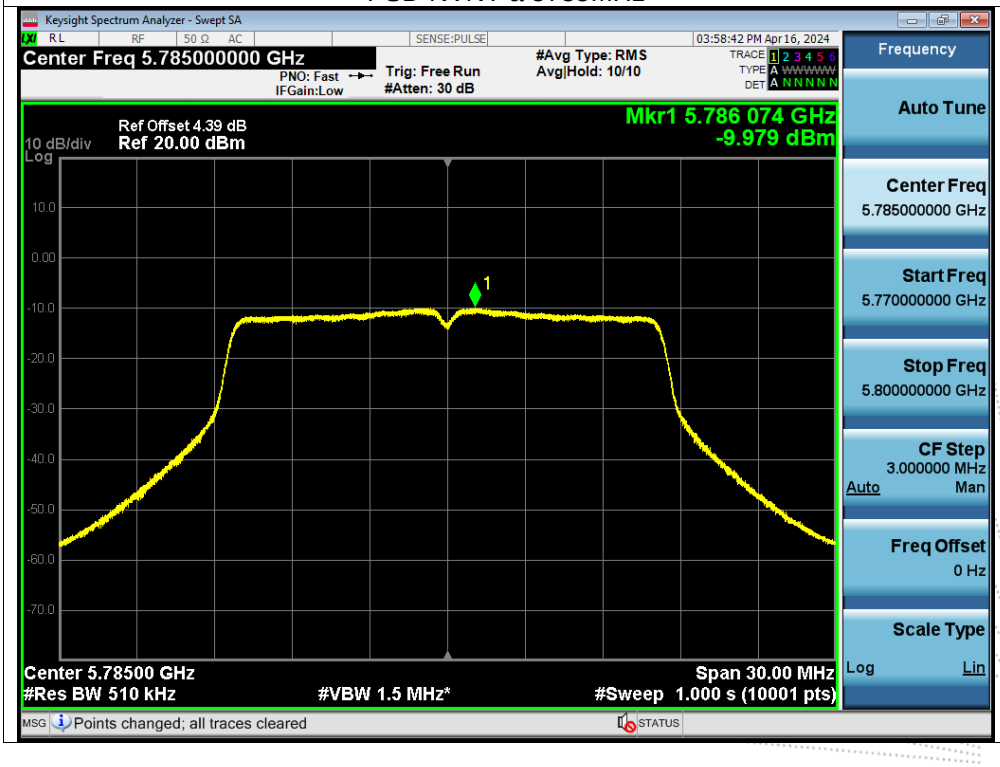


PSD NVNT ax80 5775MHz

AntB:

Test Graphs
PSD NVNT a 5745MHz

PSD NVNT a 5785MHz



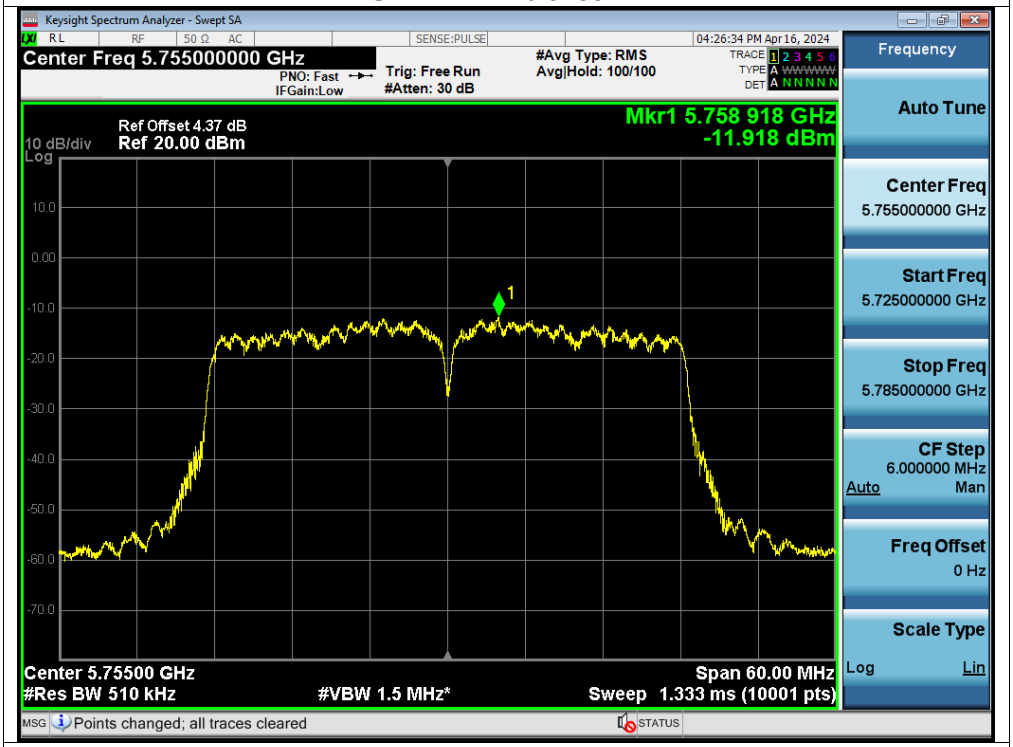
PSD NVNT a 5825MHz

PSD NVNT n20 5745MHz

PSD NVNT n20 5785MHz

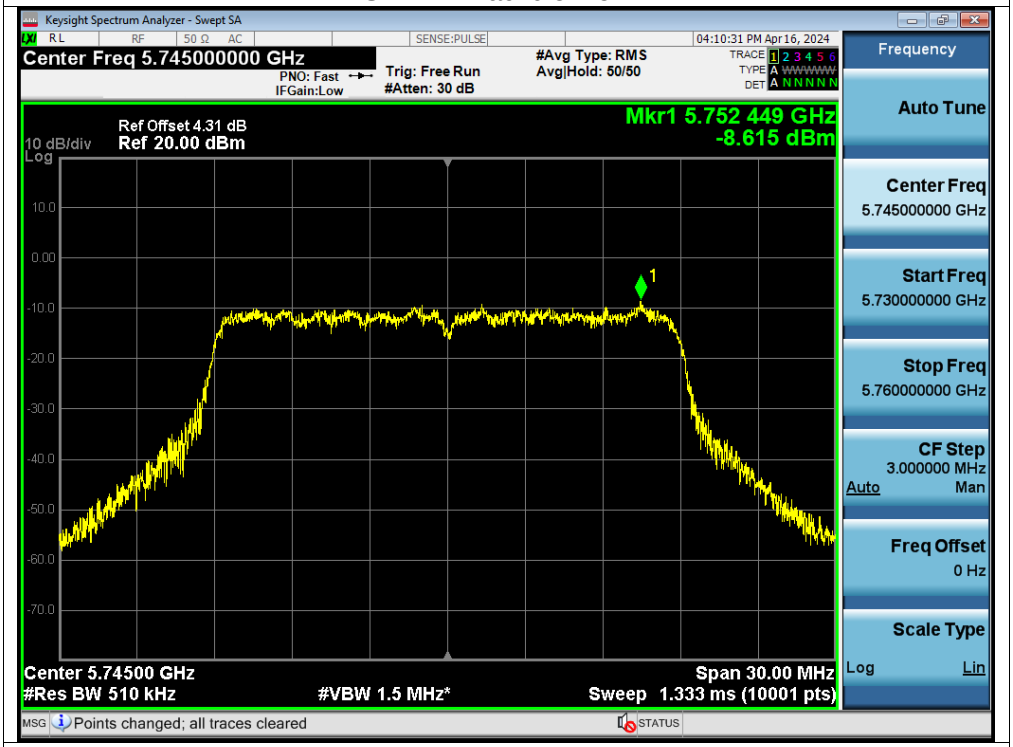
PSD NVNT n20 5825MHz

PSD NVNT n40 5755MHz

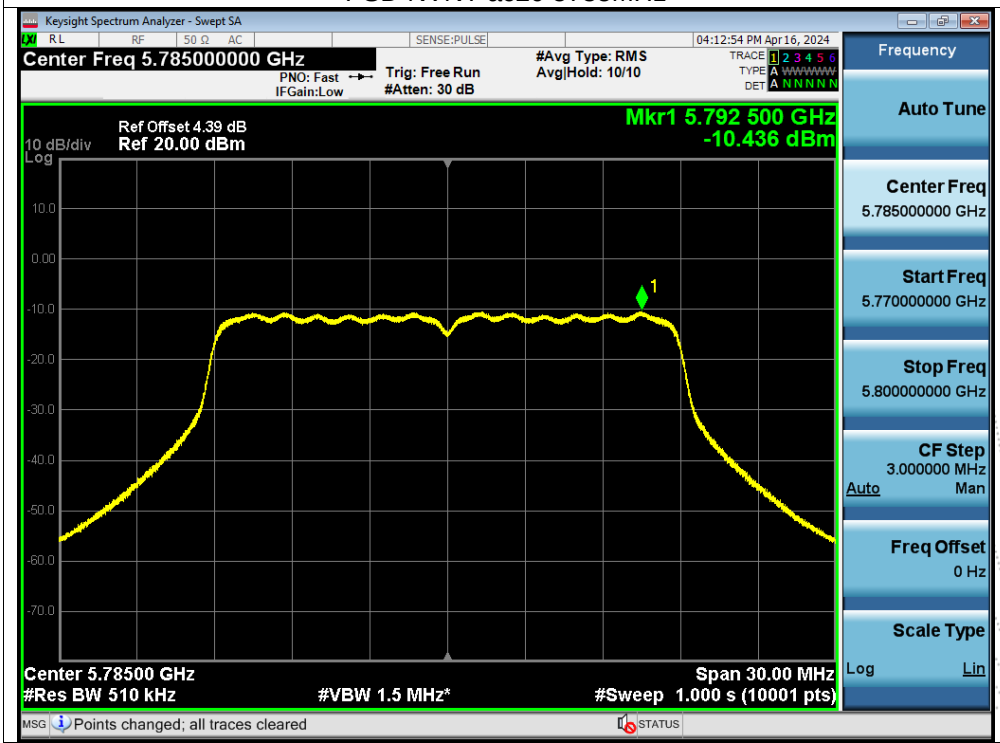


PSD NVNT n40 5795MHz

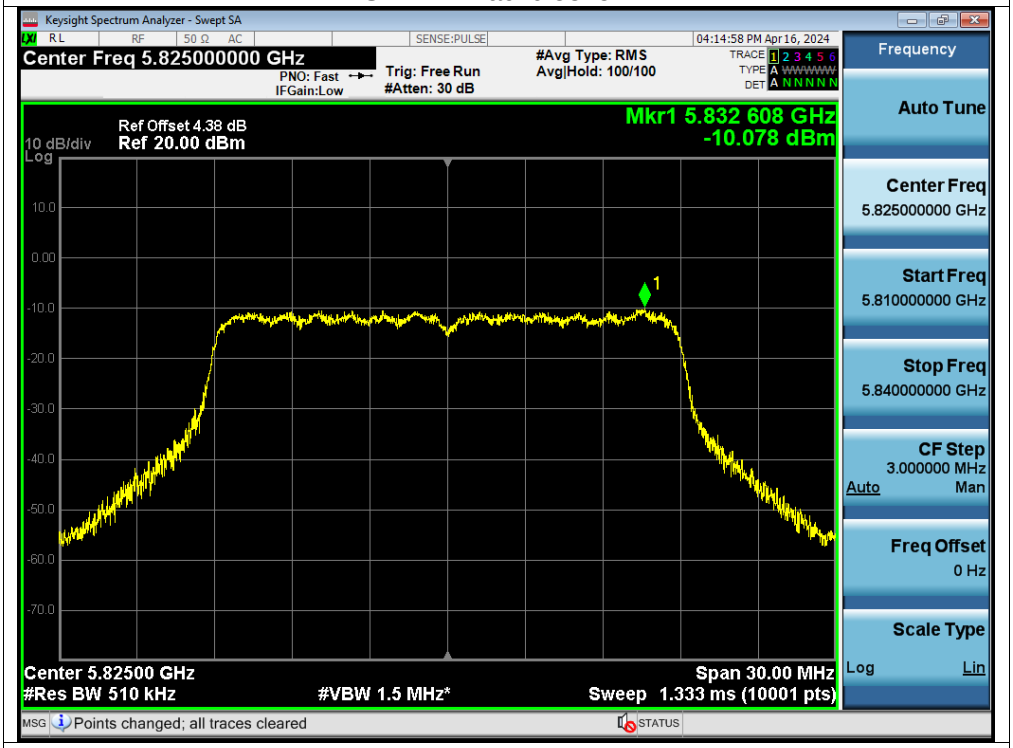
PSD NVNT ac20 5745MHz



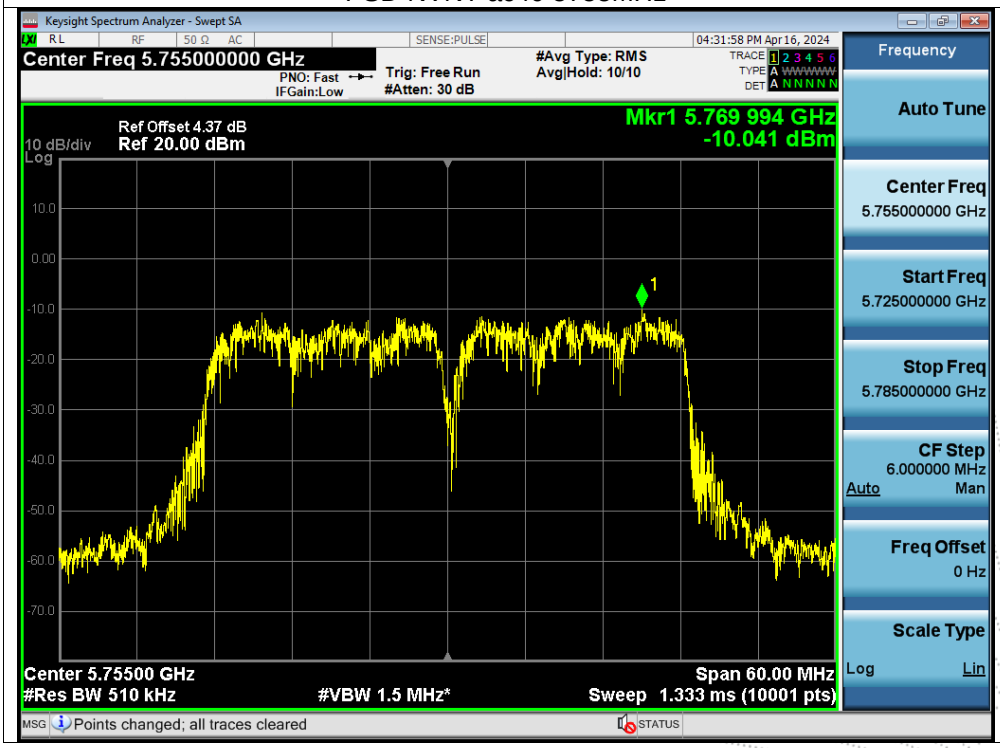
PSD NVNT ac20 5785MHz



PSD NVNT ac20 5825MHz



PSD NVNT ac40 5755MHz

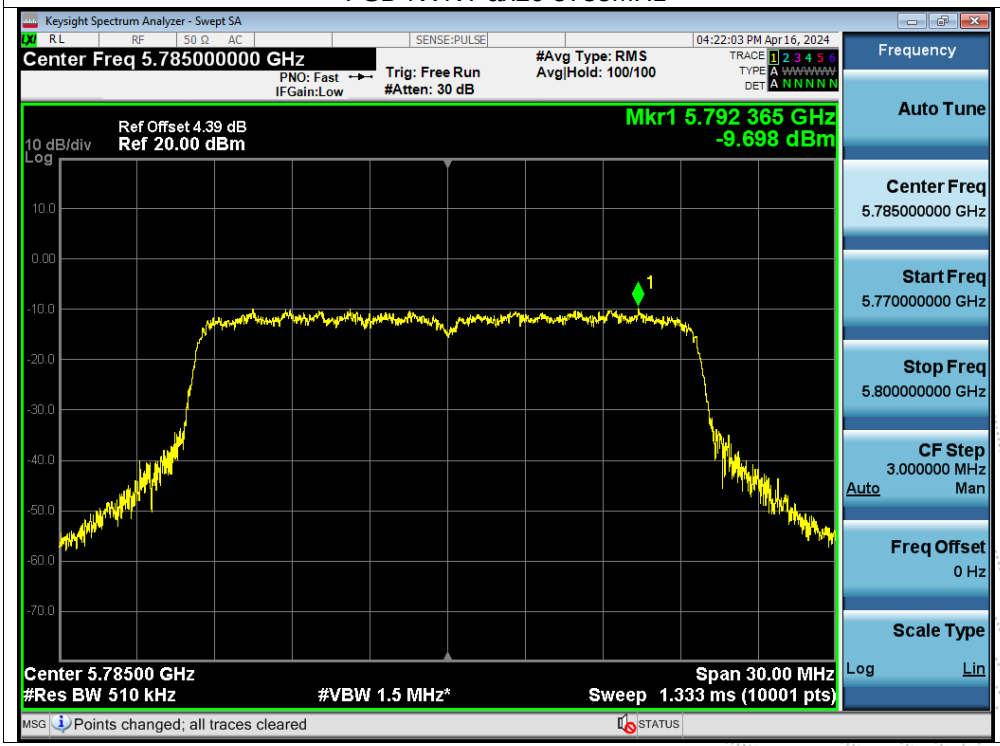


PSD NVNT ac40 5795MHz

PSD NVNT ac80 5775MHz

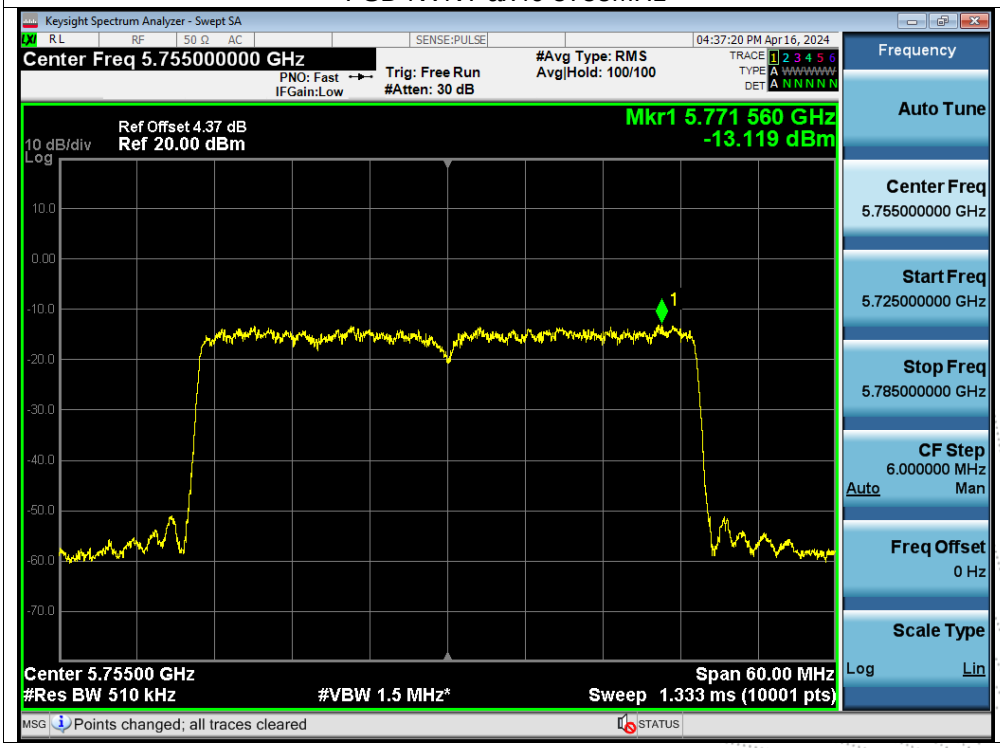
PSD NVNT ax20 5745MHz

PSD NVNT ax20 5785MHz



PSD NVNT ax20 5825MHz

PSD NVNT ax40 5755MHz



PSD NVNT ax40 5795MHz

PSD NVNT ax80 5775MHz

Ant C:

Test Graphs
PSD NVNT a 5745MHz

PSD NVNT a 5785MHz

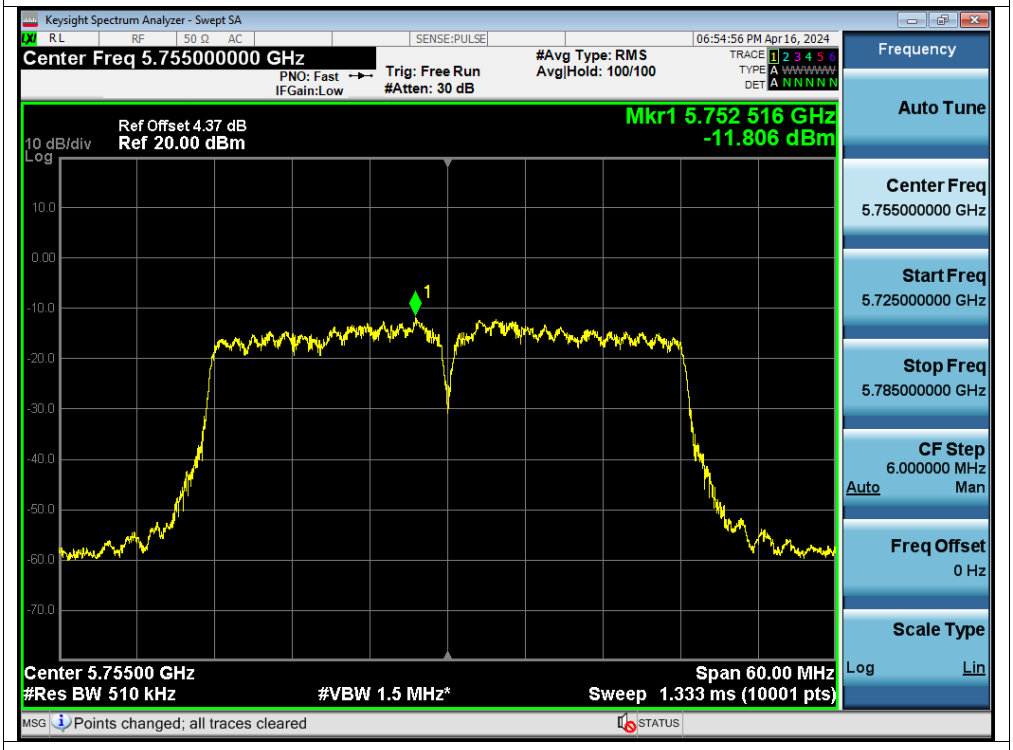
PSD NVNT a 5825MHz

PSD NVNT n20 5745MHz

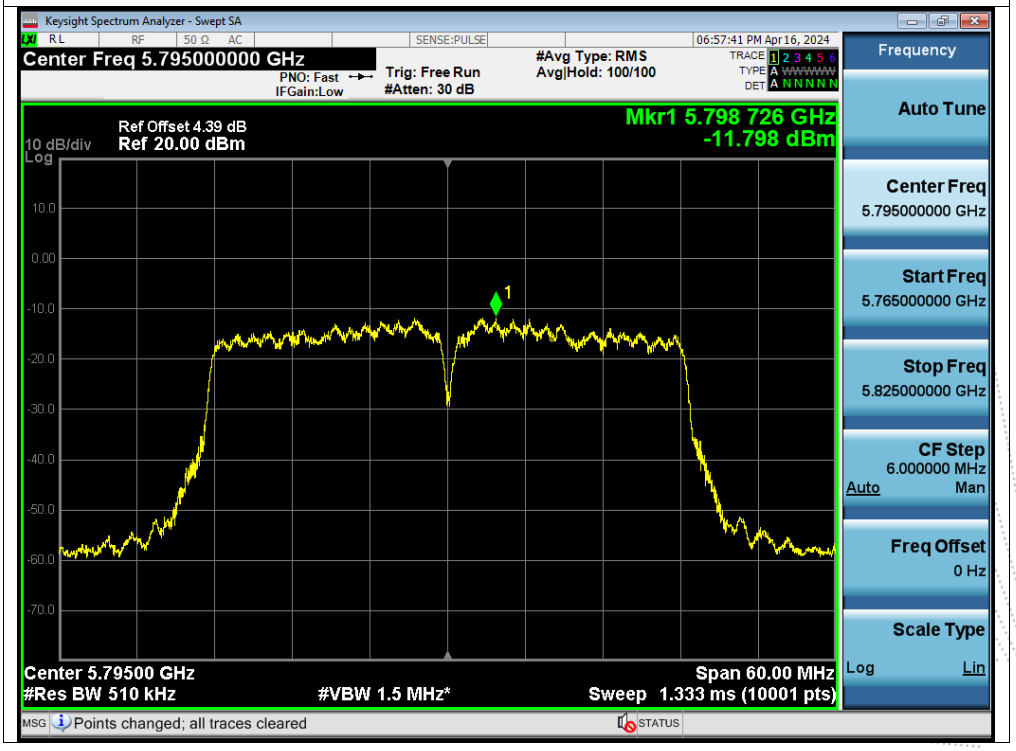
PSD NVNT n20 5785MHz

PSD NVNT n20 5825MHz

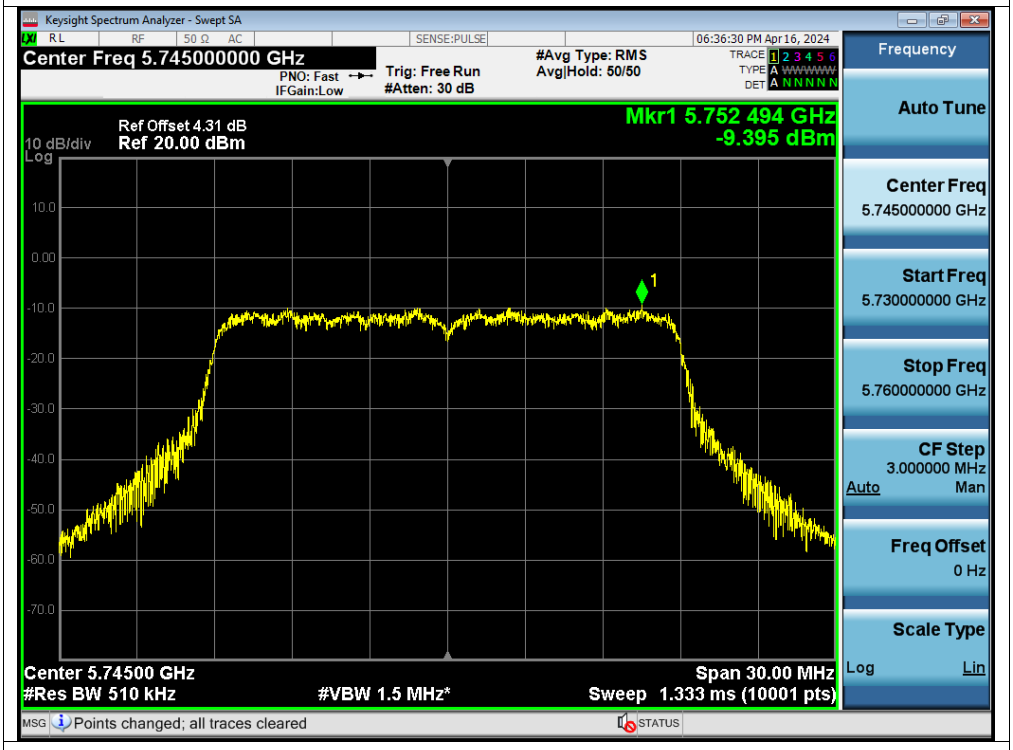
PSD NVNT n40 5755MHz



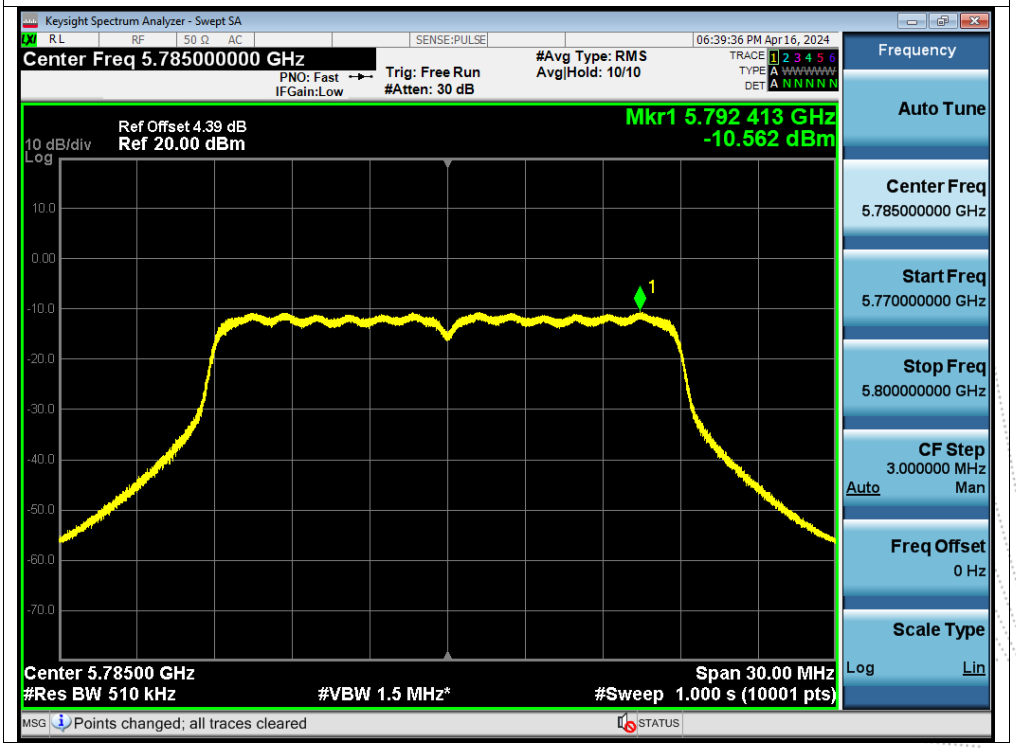
PSD NVNT n40 5795MHz



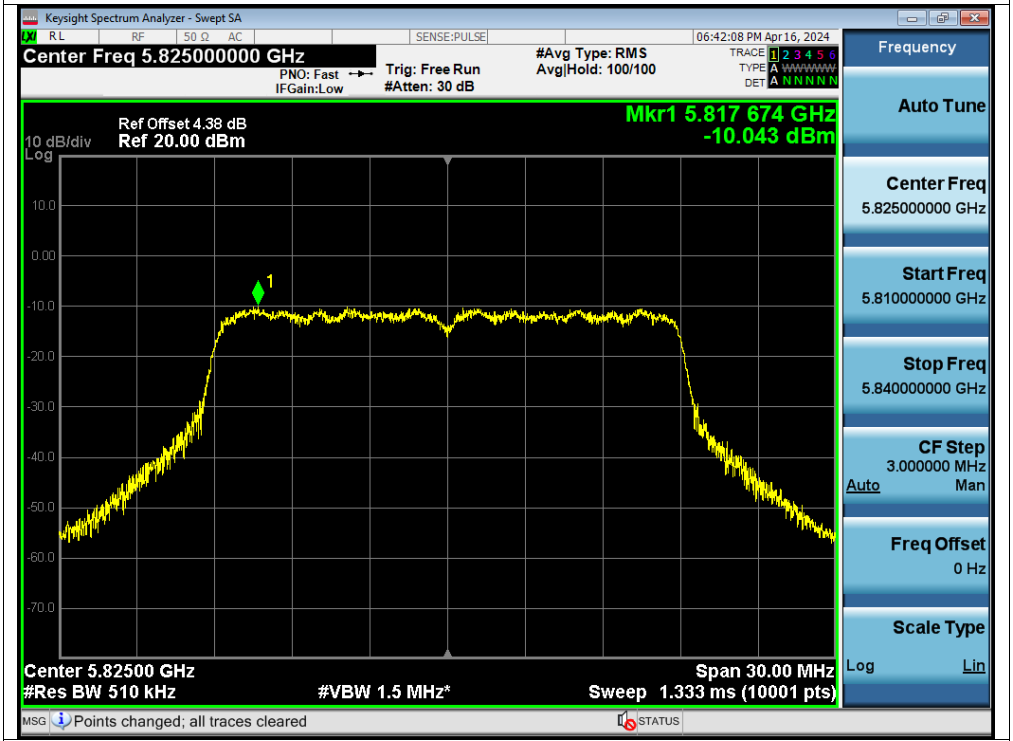
PSD NVNT ac20 5745MHz



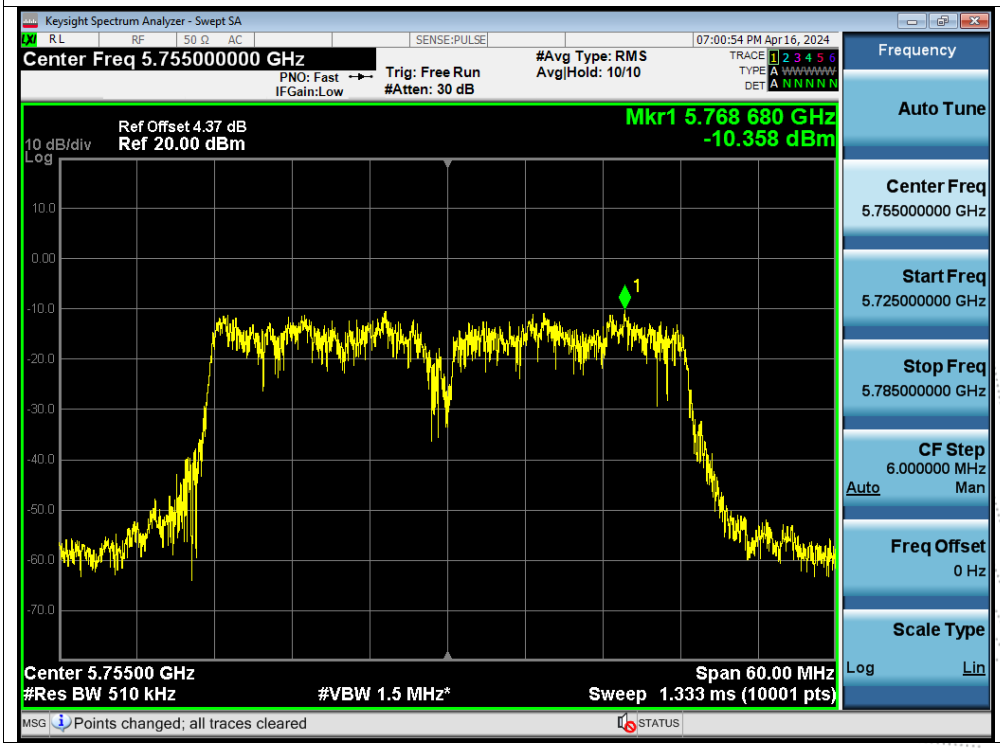
PSD NVNT ac20 5785MHz



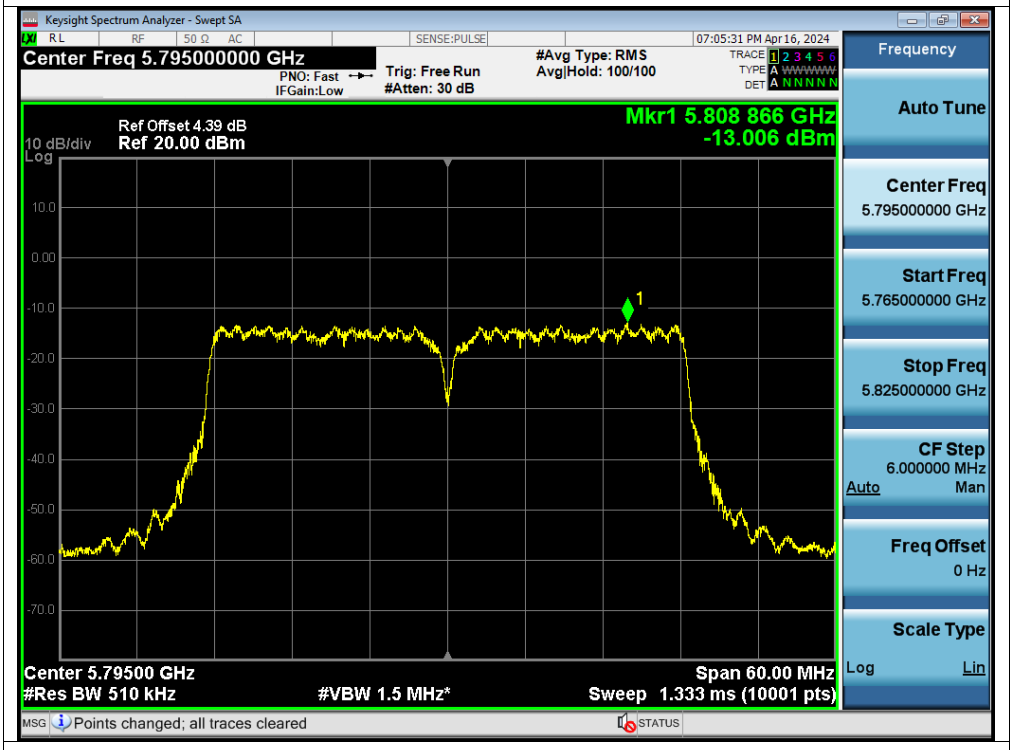
PSD NVNT ac20 5825MHz



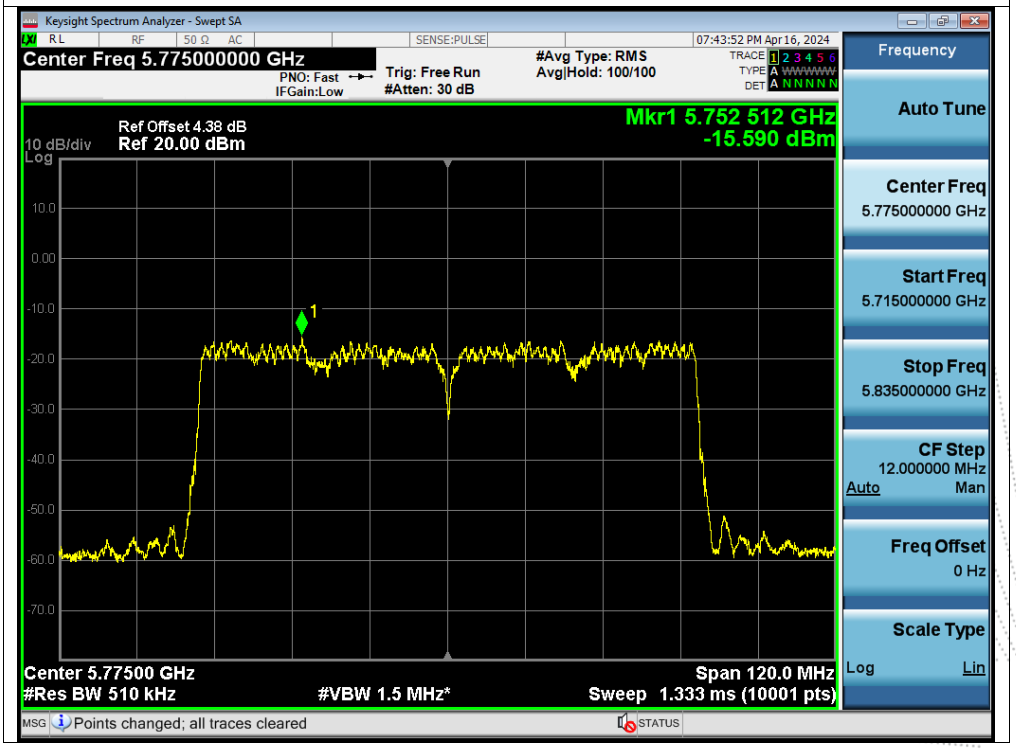
PSD NVNT ac40 5755MHz



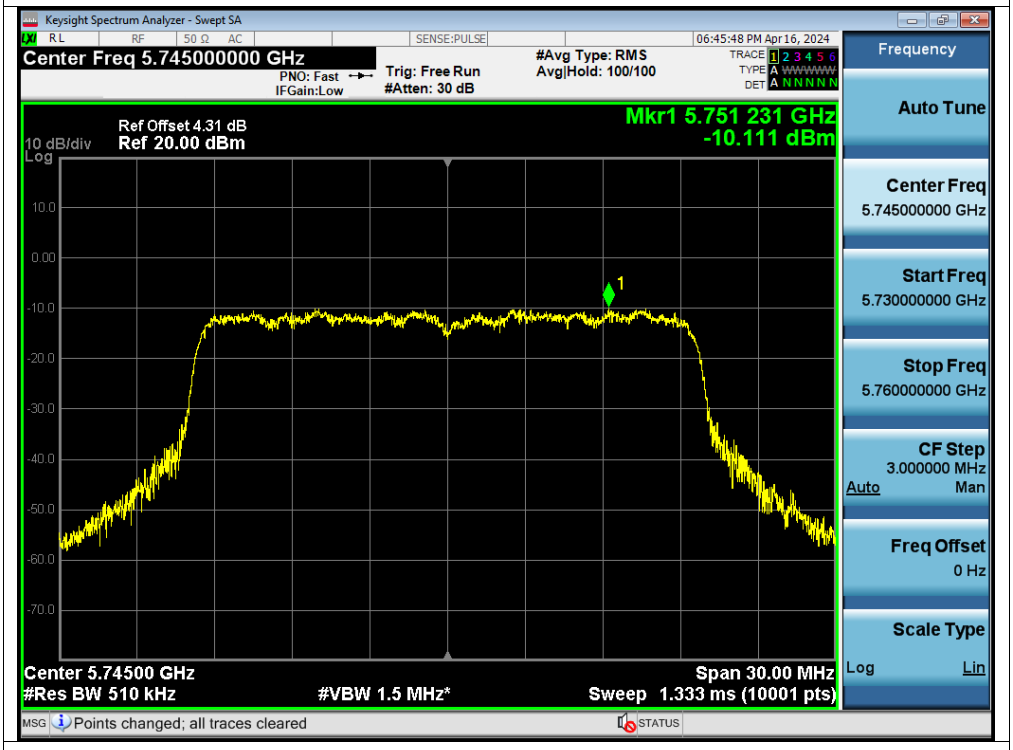
PSD NVNT ac40 5795MHz



PSD NVNT ac80 5775MHz



PSD NVNT ax20 5745MHz



PSD NVNT ax20 5785MHz