



RF TEST REPORT

Product Name: PoC Smart Radio

Model Name: TE320A, TE320L, TE320M, TE320G, TE320P, TE320X

FCC ID: 2AYEZ-TE320A

Issued For : Telo Communication (Shenzhen) Co., Ltd

6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT24D119RF04

Sample Received Date: Apr. 22, 2024

Date of Test: Apr. 22, 2024 – May 08, 2024

Date of Issue: May 08, 2024

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TEST REPORT CERTIFICATION

Applicant: Telo Communication (Shenzhen) Co., Ltd
Address: 6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China
Manufacturer: Telo Communication (Shenzhen) Co., Ltd
Address: 6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China
Product Name: PoC Smart Radio
Trademark: TELOX
Model Name: TE320A, TE320L, TE320M, TE320G, TE320P, TE320X
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.407, Subpart E ANSI C63.10-2013	PASS

Prepared by:

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Approved by:

Vita Li

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Technical Director





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-6DB BANDWIDTH	137



Revision History

Rev.	Issue Date	Contents
00	May 08 2024	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Part 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	PoC Smart Radio																					
Trademark:	TELOX																					
Model Name:	TE320A																					
Series Model:	TE320L, TE320M, TE320G, TE320P, TE320X																					
Model Difference:	It's just a different model name																					
Product Description:	<table border="1"> <tr> <td rowspan="10">Operation Frequency:</td> <td>IEEE 802.11a/n(HT20)/ ac(VHT20): 5.180GHz-5.240GHz</td> </tr> <tr> <td>IEEE 802.11n(HT40)/ ac(VHT40): 5.190GHz-5.230GHz</td> </tr> <tr> <td>IEEE 802.11 ac(VHT80): 5.210GHz</td> </tr> <tr> <td>IEEE 802.11a/n(HT20)/ ac(VHT20): 5.260GHz-5.320GHz</td> </tr> <tr> <td>IEEE 802.11 n(HT40)/ ac(VHT40): 5.270GHz-5.310GHz</td> </tr> <tr> <td>IEEE 802.11 ac(VHT80): 5.290GHz</td> </tr> <tr> <td>IEEE 802.11a/n(HT20)/ ac(VHT20): 5.500GHz-5.700GHz</td> </tr> <tr> <td>IEEE 802.11 n(HT40)/ ac(VHT40): 5.510GHz-5.670GHz</td> </tr> <tr> <td>IEEE 802.11 ac(VHT80): 5.530GHz-5.610GHz</td> </tr> <tr> <td>I IEEE 802.11a/n(HT20)/ ac(VHT20): 5.745GHz-5.825GHz</td> </tr> <tr> <td>IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz</td> </tr> <tr> <td>IEEE 802.11 ac(VHT80): 5.775GHz</td> </tr> <tr> <td>Modulation Type:</td> <td>802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</td> </tr> <tr> <td>Antenna Designation:</td> <td>FPC</td> </tr> <tr> <td>Antenna Gain(dBi)</td> <td>0.2</td> </tr> <tr> <td colspan="2">More details of EUT technical specification, please refer to the User Manual.</td> </tr> </table>	Operation Frequency:	IEEE 802.11a/n(HT20)/ ac(VHT20): 5.180GHz-5.240GHz	IEEE 802.11n(HT40)/ ac(VHT40): 5.190GHz-5.230GHz	IEEE 802.11 ac(VHT80): 5.210GHz	IEEE 802.11a/n(HT20)/ ac(VHT20): 5.260GHz-5.320GHz	IEEE 802.11 n(HT40)/ ac(VHT40): 5.270GHz-5.310GHz	IEEE 802.11 ac(VHT80): 5.290GHz	IEEE 802.11a/n(HT20)/ ac(VHT20): 5.500GHz-5.700GHz	IEEE 802.11 n(HT40)/ ac(VHT40): 5.510GHz-5.670GHz	IEEE 802.11 ac(VHT80): 5.530GHz-5.610GHz	I IEEE 802.11a/n(HT20)/ ac(VHT20): 5.745GHz-5.825GHz	IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz	IEEE 802.11 ac(VHT80): 5.775GHz	Modulation Type:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	Antenna Designation:	FPC	Antenna Gain(dBi)	0.2	More details of EUT technical specification, please refer to the User Manual.	
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Antenna Designation:	FPC																					
Antenna Gain(dBi)	0.2																					
More details of EUT technical specification, please refer to the User Manual.																						
Test Channel:	Please refer to the Note 3.																					
Adapter:	Input: AC100V-240V, 50/60Hz, 0.3A Output: 5V, 2A																					
Battery:	Rated Capacity: 4000mAh Rated Voltage: 3.8V																					
Hardware Version:	N/A																					
Software Version:	TE320A-V100R01-20240401																					
Connecting I/O Port(s):	Please refer to the Note 1.																					

Note

- For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3. Operation Frequency of channel

5.180GHz-5.240GHz		5.260GHz-5.320GHz	
Channel	Frequency	Channel	Frequency
36	5180	52	5260
38	5190	54	5270
40	5200	56	5280
42	5210	58	5290
44	5220	60	5300
46	5230	62	5310
48	5240	64	5320
5.500GHz-5.720GHz		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
100	5500	149	5745
102	5510	151	5755
104	5520	153	5765
108	5540	157	5785
110	5550	159	5795
112	5560	161	5805
116	5580	165	5825
118	5590		
120	5600		
124	5620		
126	5630		
128	5640		
132	5660		
134	5670		
136	5680		
140	5700		
142	5710		
144	5720		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

Channel List for 802.11a/n/ac(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	60	5300	116	5580	157	5785
48	5240	64	5320	140	5700	165	5825

Channel List for 802.11n/ac(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
134	5670						

Channel List for 802.11ac(80MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
122	5610						



2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 4	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 5	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 6	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 7	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 8	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 9	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 10	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 11	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 12	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 13	TX IEEE 802.11ac/ax VHT40 CH54 &CH62	NSS1 MCS0
Mode 14	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 15	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 16	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 17	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 18	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

- Note: (1) The measurements are performed at the highest, middle, lowest available channels.
 (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
 (3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
 (4) The battery is fully-charged during the radiated and RF conducted test.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 19: TX Mode



2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 5G WIFI B1	
QRCT_4.0.63.0	Mode Or Modulation type	Power setting
	a	21
	n20	19
	n40	19
	ac20	18
	ac40	18
	ac80	18
Test software Version	Test program: 5G WIFI B2	
QRCT_4.0.63.0	Mode Or Modulation type	Power setting
	a	21
	n20	19
	n40	19
	ac20	18
	ac40	18
	ac80	18
Test software Version	Test program: 5G WIFI B3	
QRCT_4.0.63.0	Mode Or Modulation type	Power setting
	a	17
	n20	13
	n40	13
	ac20	14
	ac40	14
	ac80	14
Test software Version	Test program: 5G WIFI B4	
QRCT_4.0.63.0	Mode Or Modulation type	Power setting
	a	16
	n20	13
	n40	13
	ac20	14
	ac40	14
	ac80	14



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Shenzhen Mao two Power Co., Ltd	MR-0502000US	N/A	Input: 100-240V ~ 50/60Hz 0.3A Output: 5V, 2A
USB-A to USB-C Cable	N/A	N/A	N/A	1m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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



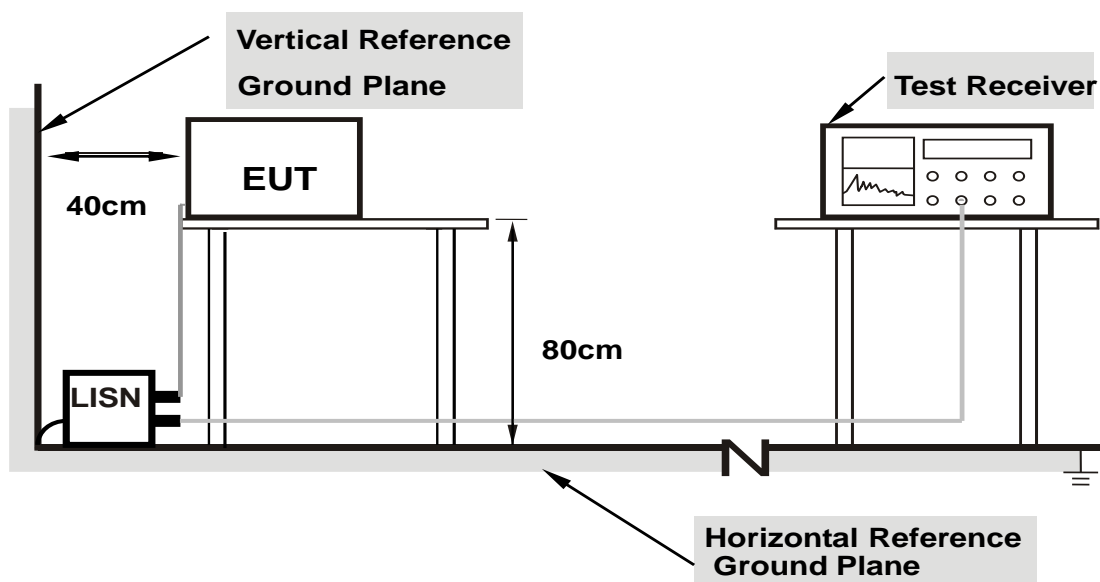
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

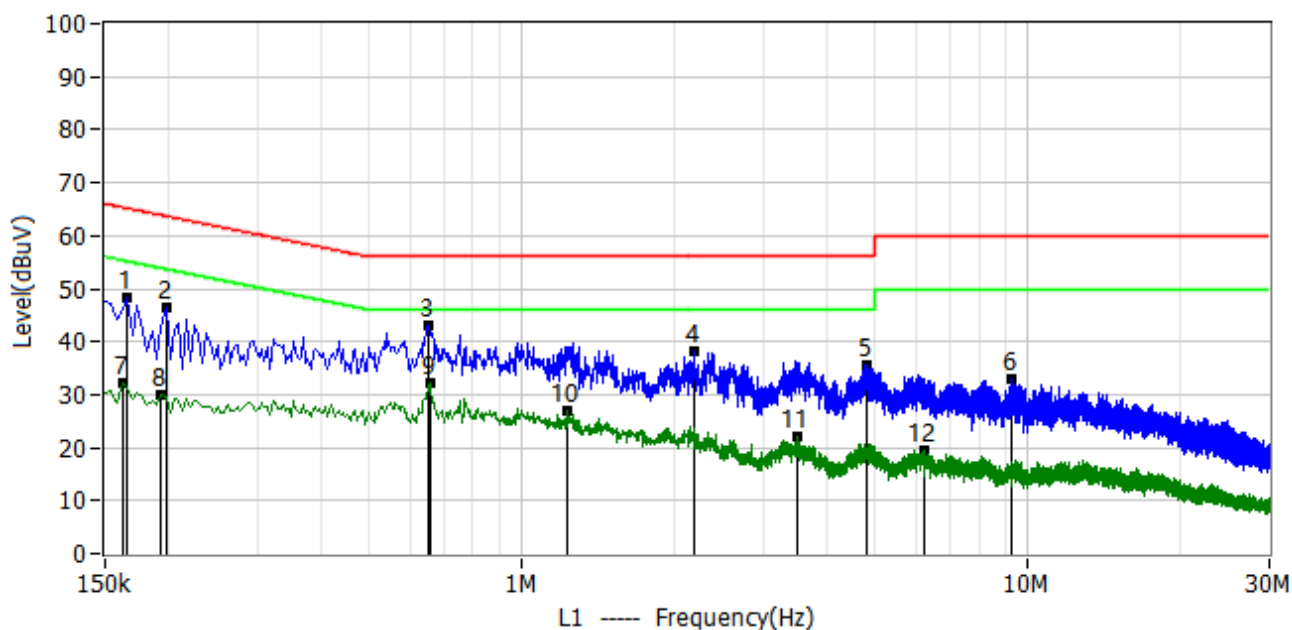
3.1.5 EUT OPERATING CONDITIONS

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.



3.1.6 TEST RESULTS

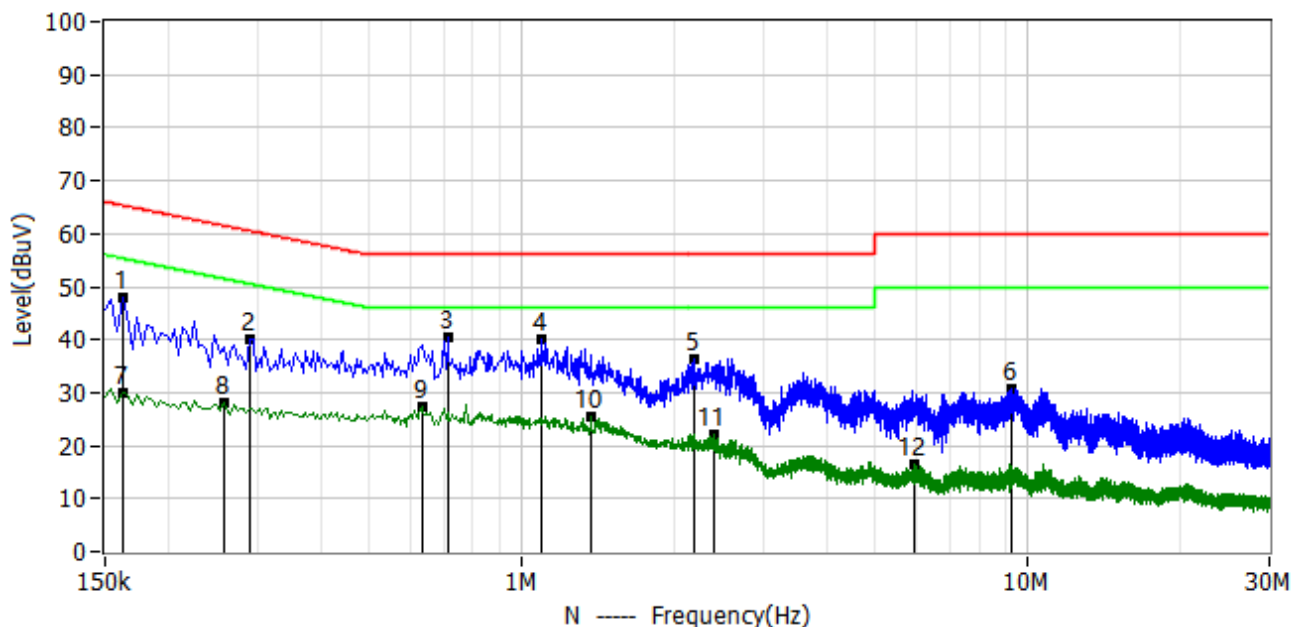
Project: LGT24D119	Test Engineer: LiuH
EUT: PoC Smart Radio	Temperature: 24.1°C
M/N: TE320A	Humidity: 67%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-23
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.166	37.67	10.49	48.16	65.16	-17.00	QP	L1
2*	0.198	35.94	10.49	46.43	63.69	-17.27	QP	L1
3*	0.654	32.62	10.50	43.12	56.00	-12.88	QP	L1
4*	2.182	27.56	10.72	38.28	56.00	-17.72	QP	L1
5*	4.814	24.84	10.80	35.64	56.00	-20.36	QP	L1
6*	9.250	21.85	10.97	32.82	60.00	-27.18	QP	L1
7*	0.162	21.59	10.49	32.08	55.36	-23.28	AV	L1
8*	0.194	19.62	10.49	30.11	53.86	-23.76	AV	L1
9*	0.658	21.68	10.50	32.18	46.00	-13.82	AV	L1
10*	1.234	16.39	10.57	26.96	46.00	-19.04	AV	L1
11*	3.494	11.40	10.76	22.16	46.00	-23.84	AV	L1
12*	6.218	8.79	10.84	19.63	50.00	-30.37	AV	L1



Project: LGT24D119	Test Engineer: LiuH
EUT: PoC Smart Radio	Temperature: 24.1°C
M/N: TE320A	Humidity: 67%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-23
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	37.35	10.49	47.84	65.36	-17.52	QP	N
2*	0.290	29.60	10.49	40.09	60.52	-20.43	QP	N
3*	0.714	29.89	10.50	40.39	56.00	-15.61	QP	N
4*	1.094	29.52	10.54	40.06	56.00	-15.94	QP	N
5*	2.182	25.79	10.72	36.51	56.00	-19.49	QP	N
6*	9.278	19.86	10.99	30.85	60.00	-29.15	QP	N
7*	0.162	19.61	10.49	30.10	55.36	-25.26	AV	N
8*	0.258	17.51	10.49	28.00	51.50	-23.50	AV	N
9*	0.634	16.67	10.50	27.17	46.00	-18.83	AV	N
10*	1.370	14.83	10.59	25.42	46.00	-20.58	AV	N
11*	2.402	11.36	10.73	22.09	46.00	-23.91	AV	N
12*	5.942	5.62	10.84	16.46	50.00	-33.54	AV	N



3.2 RADIATED EMISSION AND (BANDEGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

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

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.



LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: $\text{dBuV/m(at 3M)} = \text{EIRP(dBm)} + 95.3$.

Peak Limit = $-27\text{dBm/MHz} + 95.3 = 68.3 \text{ dBuV/m}$.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

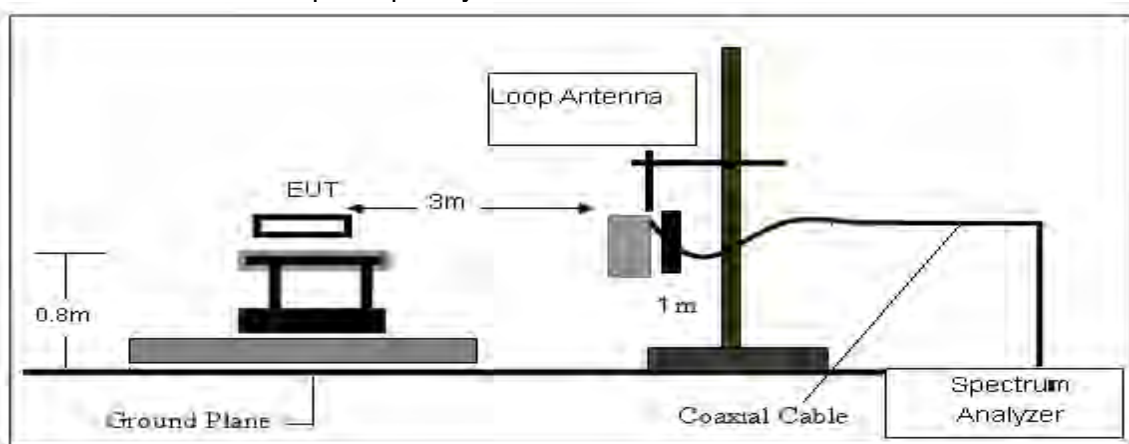
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

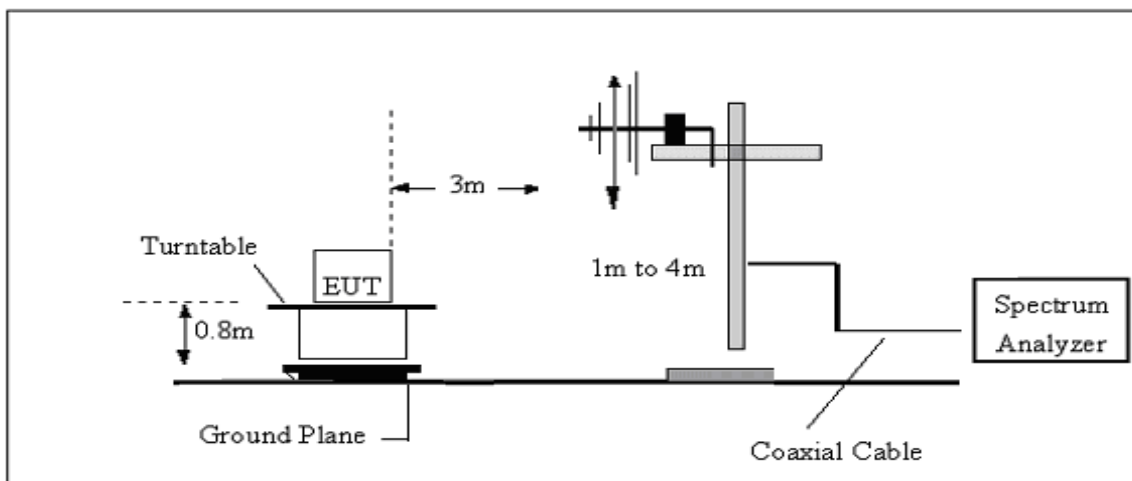
No deviation

3.2.3 TEST SETUP

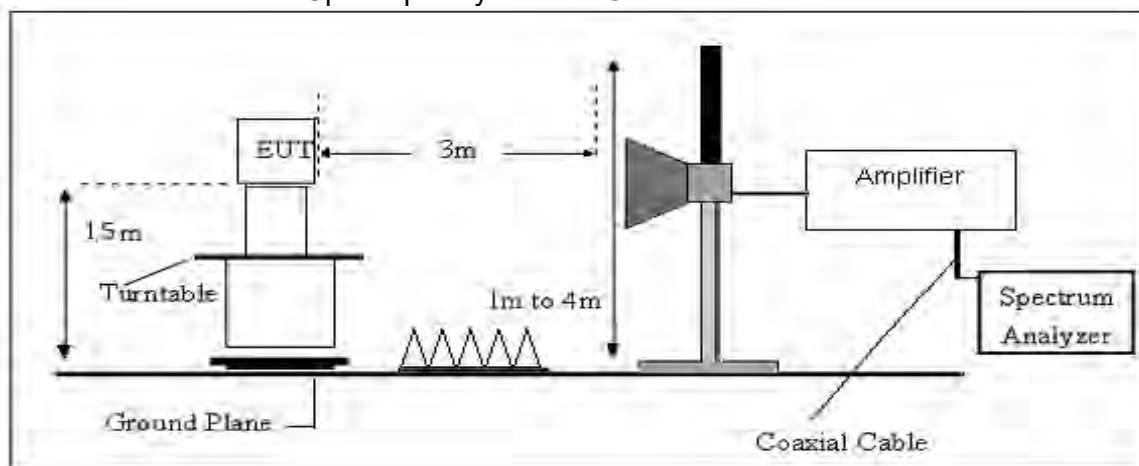
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

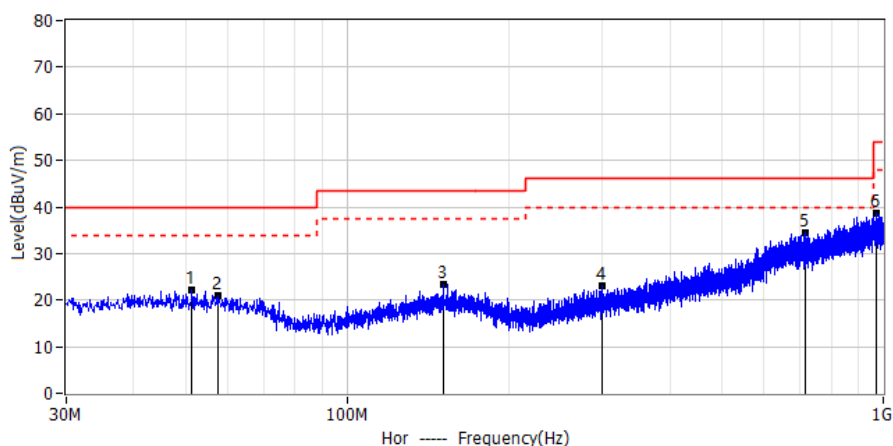
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

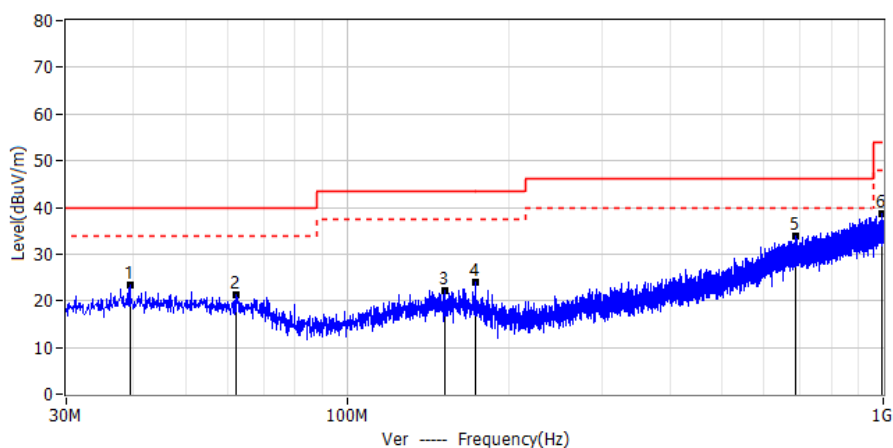


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	51.461	2.96	19.25	22.21	40.00	-17.79	QP	Hor
2*	57.645	2.29	18.81	21.10	40.00	-18.90	QP	Hor
3*	151.614	3.33	19.97	23.30	43.50	-20.20	QP	Hor
4*	299.781	3.11	19.91	23.02	46.00	-22.98	QP	Hor
5*	716.639	4.41	30.00	34.41	46.00	-11.59	QP	Hor
6*	968.111	4.22	34.31	38.53	54.00	-15.47	QP	Hor

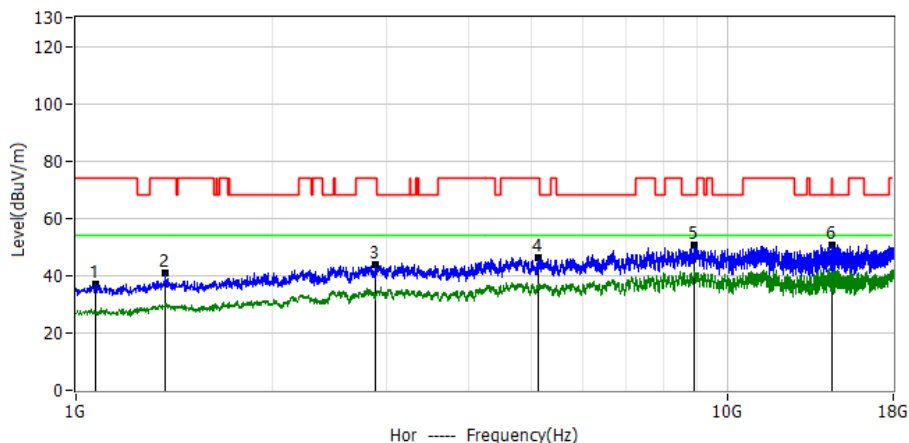


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	39.458	3.95	19.29	23.24	40.00	-16.76	QP	Ver
2*	62.131	2.69	18.51	21.20	40.00	-18.80	QP	Ver
3*	152.584	2.25	19.95	22.20	43.50	-21.30	QP	Ver
4*	173.439	4.60	19.46	24.06	43.50	-19.44	QP	Ver
5*	687.418	4.03	29.69	33.72	46.00	-12.28	QP	Ver
6*	995.878	3.97	34.55	38.52	54.00	-15.48	QP	Ver

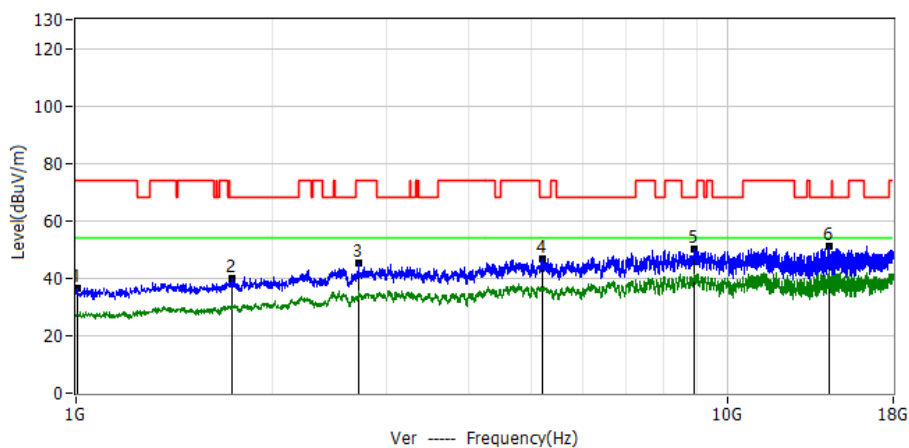


Results of Radiated Emissions (Above 1000MHz)

Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5180	
Note: Worst Case	



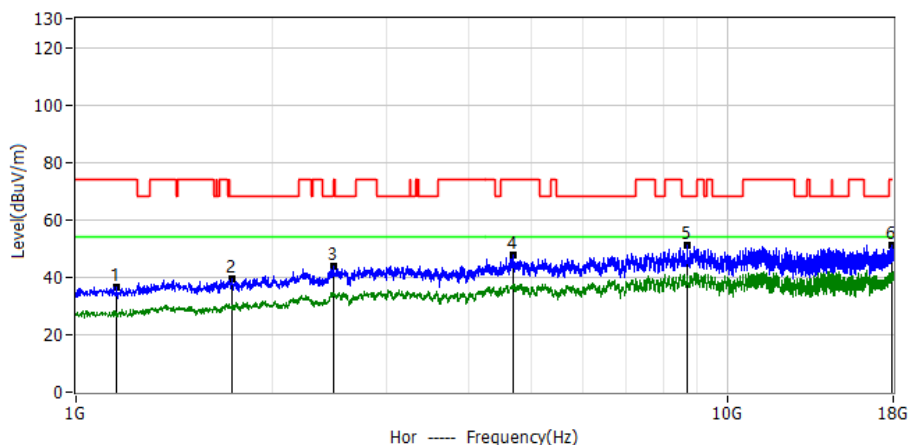
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1072.2000	60.92	-24.12	36.80	74.00	-37.20	PK	Hor
2*	1371.9000	62.54	-21.68	40.86	74.00	-33.14	PK	Hor
3*	2880.6000	53.25	-9.37	43.88	74.00	-30.12	PK	Hor
4*	5122.5000	53.81	-7.42	46.39	74.00	-27.61	PK	Hor
5*	8917.7000	54.33	-3.82	50.51	68.20	-17.69	PK	Hor
6*	14487.4000	50.16	0.67	50.83	74.00	-23.17	PK	Hor



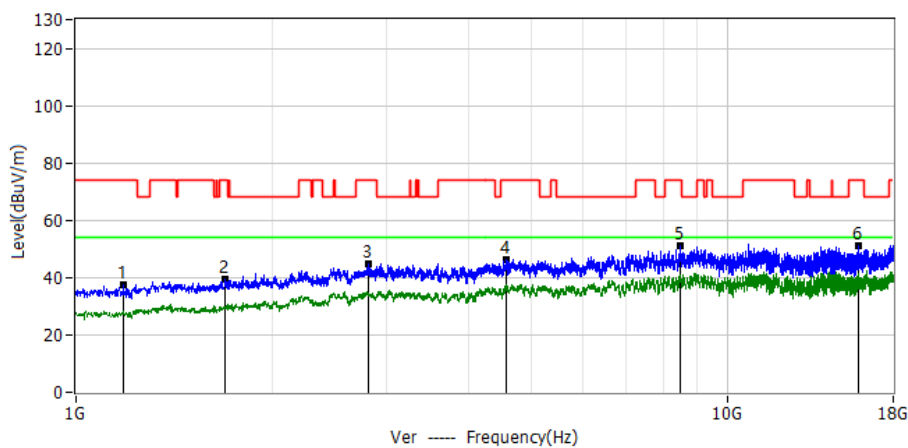
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1004.2000	61.09	-24.71	36.38	74.00	-37.62	PK	Ver
2*	1739.5000	58.96	-18.99	39.97	68.20	-28.23	PK	Ver
3*	2721.2000	55.47	-10.18	45.29	74.00	-28.71	PK	Ver
4*	5216.0000	54.56	-7.73	46.83	68.20	-21.37	PK	Ver
5*	8913.5000	54.18	-3.83	50.35	68.20	-17.85	PK	Ver
6*	14379.0000	50.43	0.71	51.14	68.20	-17.06	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5200	
Note: Worst Case	



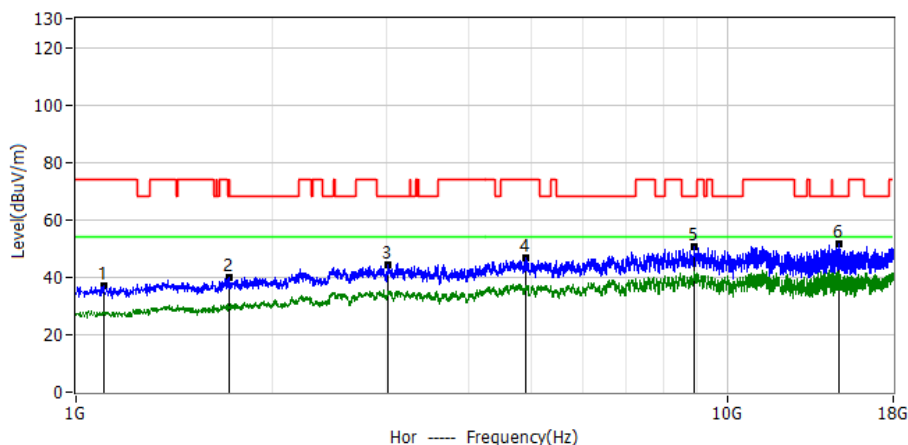
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1155.1000	59.87	-23.40	36.47	74.00	-37.53	PK	Hor
2*	1739.5000	58.40	-18.99	39.41	68.20	-28.79	PK	Hor
3*	2489.6000	55.19	-11.41	43.78	74.00	-30.22	PK	Hor
4*	4703.9000	54.43	-6.71	47.72	74.00	-26.28	PK	Hor
5*	8681.9000	55.16	-4.25	50.91	68.20	-17.29	PK	Hor
6*	17949.0000	49.03	2.00	51.03	74.00	-22.97	PK	Hor



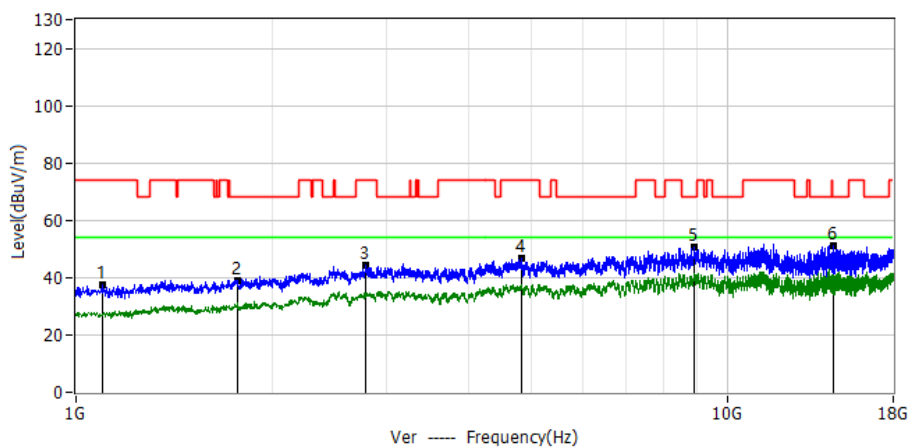
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1182.7000	60.42	-23.16	37.26	74.00	-36.74	PK	Ver
2*	1692.7000	58.72	-19.43	39.29	74.00	-34.71	PK	Ver
3*	2812.6000	54.67	-9.72	44.95	74.00	-29.05	PK	Ver
4*	4567.9000	52.94	-6.57	46.37	74.00	-27.63	PK	Ver
5*	8465.1000	55.86	-4.65	51.21	74.00	-22.79	PK	Ver
6*	15936.6000	50.91	0.27	51.18	74.00	-22.82	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5240	
Note: Worst Case	



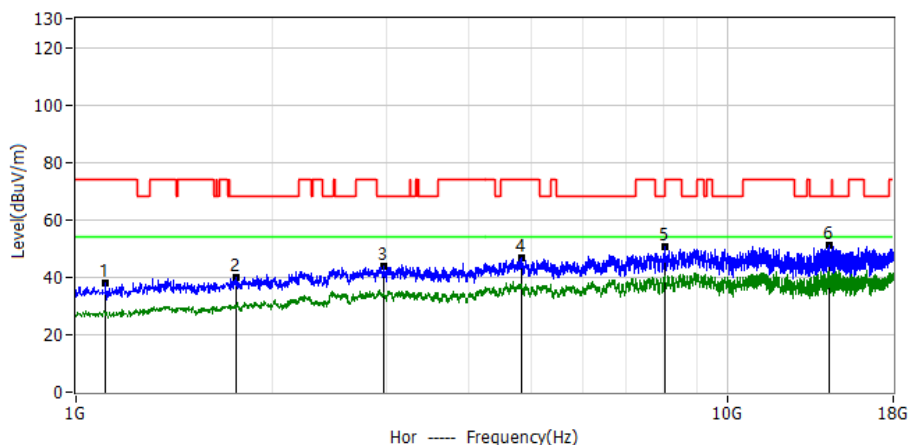
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1102.0000	61.09	-23.86	37.23	74.00	-36.77	PK	Hor
2*	1720.4000	59.13	-19.17	39.96	74.00	-34.04	PK	Hor
3*	3010.2000	53.03	-8.77	44.26	68.20	-23.94	PK	Hor
4*	4907.9000	53.76	-6.91	46.85	74.00	-27.15	PK	Hor
5*	8913.5000	54.26	-3.83	50.43	68.20	-17.77	PK	Hor
6*	14818.9000	51.18	0.53	51.71	68.20	-16.49	PK	Hor



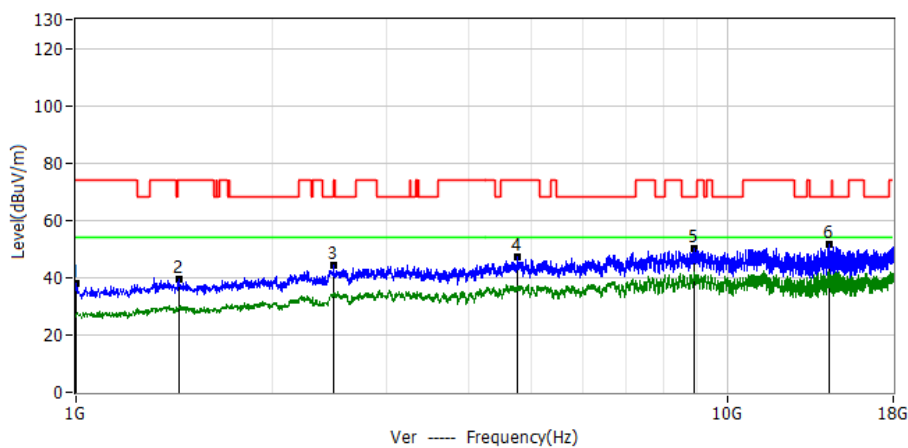
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1095.6000	61.44	-23.92	37.52	74.00	-36.48	PK	Ver
2*	1769.2000	57.79	-18.71	39.08	68.20	-29.12	PK	Ver
3*	2789.2000	53.95	-9.84	44.11	74.00	-29.89	PK	Ver
4*	4827.1000	53.43	-6.83	46.60	74.00	-27.40	PK	Ver
5*	8907.1000	54.29	-3.84	50.45	68.20	-17.75	PK	Ver
6*	14597.9000	50.57	0.62	51.19	68.20	-17.01	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5260	
Note: Worst Case	



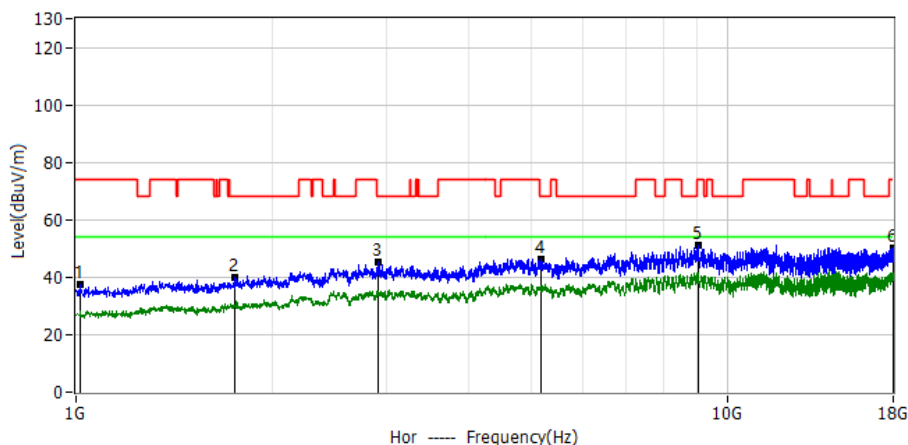
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1108.4000	61.59	-23.81	37.78	74.00	-36.22	PK	Hor
2*	1760.7000	58.48	-18.79	39.69	68.20	-28.51	PK	Hor
3*	2963.5000	52.99	-8.95	44.04	68.20	-24.16	PK	Hor
4*	4831.4000	53.67	-6.83	46.84	74.00	-27.16	PK	Hor
5*	8029.5000	56.00	-5.45	50.55	74.00	-23.45	PK	Hor
6*	14379.0000	50.35	0.71	51.06	68.20	-17.14	PK	Hor



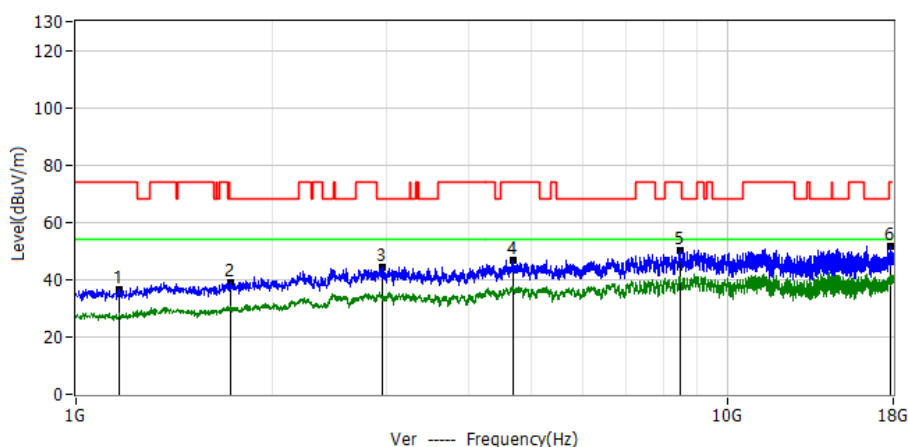
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1002.1000	62.64	-24.73	37.91	74.00	-36.09	PK	Ver
2*	1437.7000	60.60	-21.27	39.33	74.00	-34.67	PK	Ver
3*	2489.6000	55.91	-11.41	44.50	74.00	-29.50	PK	Ver
4*	4754.9000	53.91	-6.76	47.15	74.00	-26.85	PK	Ver
5*	8902.9000	54.08	-3.85	50.23	68.20	-17.97	PK	Ver
6*	14368.4000	50.95	0.72	51.67	68.20	-16.53	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5300	
Note: Worst Case	



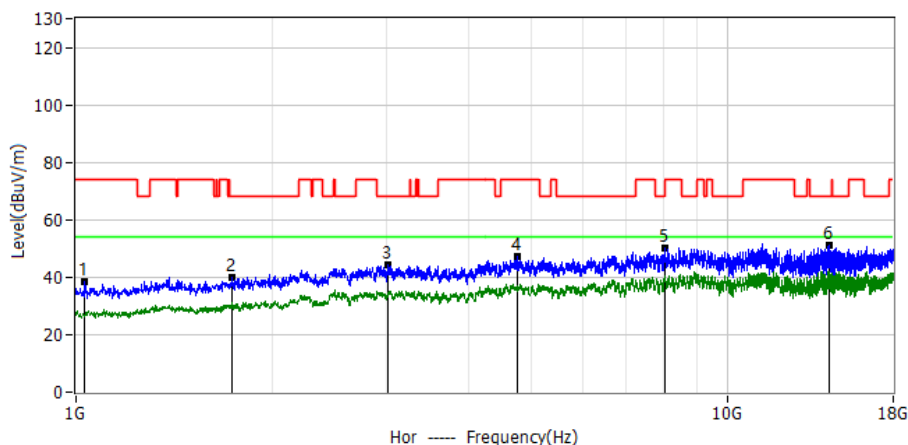
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1012.7000	62.33	-24.64	37.69	74.00	-36.31	PK	Hor
2*	1756.5000	58.62	-18.83	39.79	68.20	-28.41	PK	Hor
3*	2906.1000	54.40	-9.25	45.15	68.20	-23.05	PK	Hor
4*	5169.2000	53.91	-7.58	46.33	68.20	-21.87	PK	Hor
5*	9013.4000	54.96	-3.68	51.28	74.00	-22.72	PK	Hor
6*	17983.0000	48.36	2.01	50.37	74.00	-23.63	PK	Hor



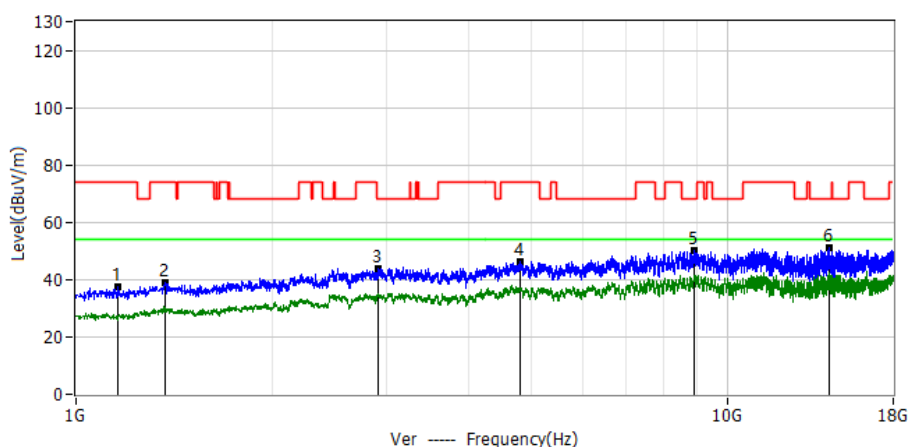
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1163.6000	59.77	-23.33	36.44	74.00	-37.56	PK	Ver
2*	1731.0000	58.19	-19.07	39.12	68.20	-29.08	PK	Ver
3*	2948.6000	53.22	-9.03	44.19	68.20	-24.01	PK	Ver
4*	4691.1000	53.54	-6.69	46.85	74.00	-27.15	PK	Ver
5*	8475.7000	54.97	-4.63	50.34	74.00	-23.66	PK	Ver
6*	17859.7000	49.58	1.96	51.54	74.00	-22.46	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5320	
Note: Worst Case	



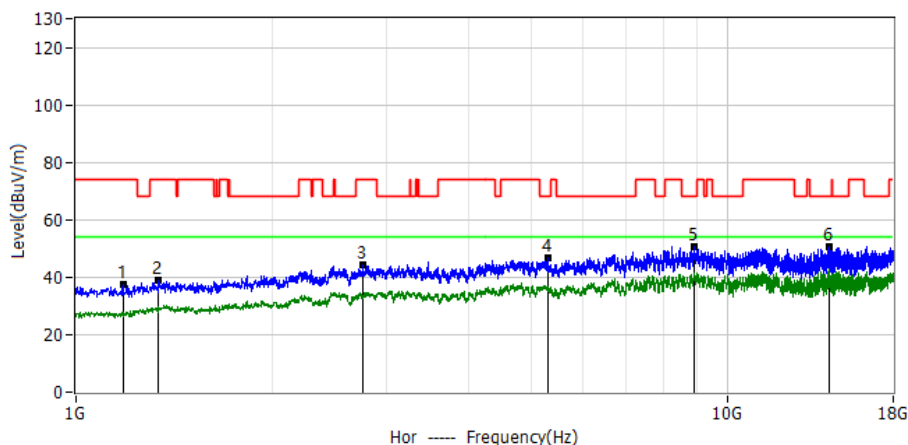
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1031.9000	62.83	-24.47	38.36	74.00	-35.64	PK	Hor
2*	1739.5000	58.91	-18.99	39.92	68.20	-28.28	PK	Hor
3*	3016.6000	53.00	-8.78	44.22	68.20	-23.98	PK	Hor
4*	4752.7000	54.21	-6.75	47.46	74.00	-26.54	PK	Hor
5*	8012.5000	55.74	-5.48	50.26	68.20	-17.94	PK	Hor
6*	14379.0000	50.60	0.71	51.31	68.20	-16.89	PK	Hor



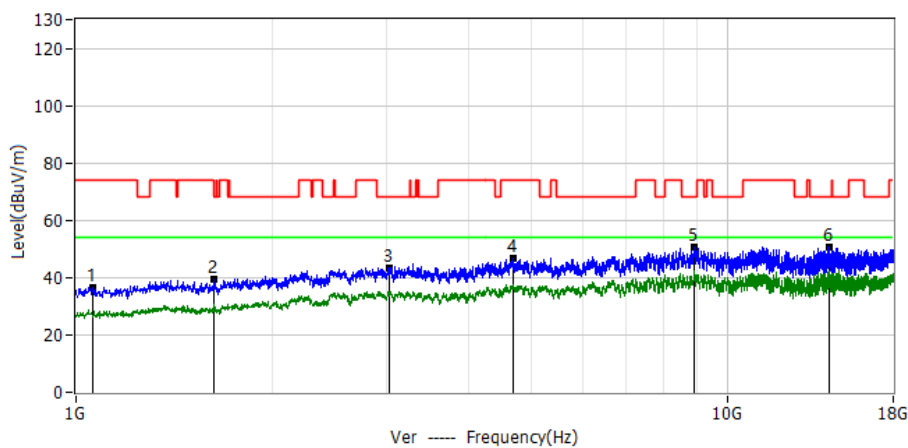
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1161.5000	60.67	-23.34	37.33	74.00	-36.67	PK	Ver
2*	1371.9000	60.54	-21.68	38.86	74.00	-35.14	PK	Ver
3*	2914.6000	53.18	-9.20	43.98	68.20	-24.22	PK	Ver
4*	4803.7000	53.17	-6.80	46.37	74.00	-27.63	PK	Ver
5*	8905.0000	54.02	-3.84	50.18	68.20	-18.02	PK	Ver
6*	14374.7000	50.61	0.72	51.33	68.20	-16.87	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5500	
Note: Worst Case	



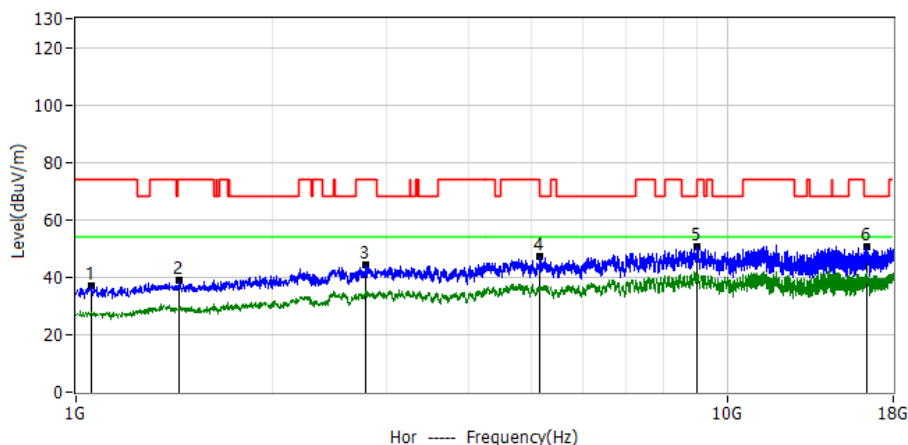
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1182.7000	60.86	-23.16	37.70	74.00	-36.30	PK	Hor
2*	1340.0000	61.09	-21.93	39.16	74.00	-34.84	PK	Hor
3*	2761.6000	54.52	-9.98	44.54	74.00	-29.46	PK	Hor
4*	5301.0000	54.92	-8.02	46.90	68.20	-21.30	PK	Hor
5*	8913.5000	54.46	-3.83	50.63	68.20	-17.57	PK	Hor
6*	14359.9000	49.95	0.72	50.67	68.20	-17.53	PK	Hor



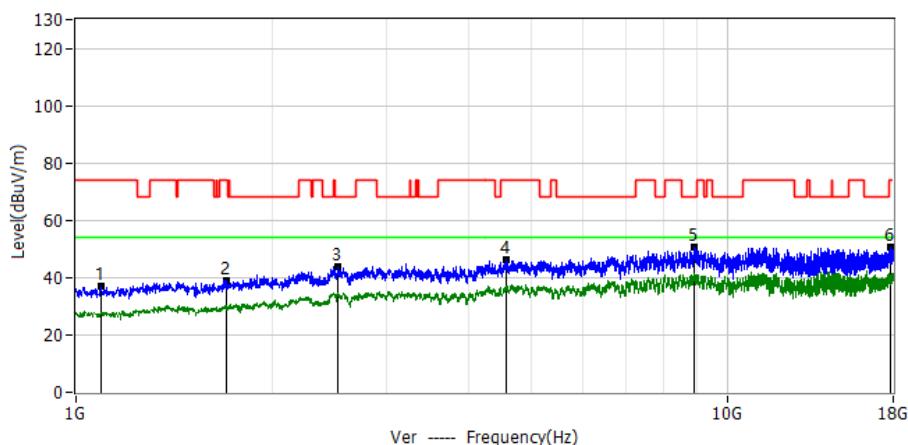
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1061.6000	60.92	-24.21	36.71	74.00	-37.29	PK	Ver
2*	1631.1000	59.44	-20.01	39.43	68.20	-28.77	PK	Ver
3*	3025.1000	52.32	-8.78	43.54	68.20	-24.66	PK	Ver
4*	4691.1000	53.61	-6.69	46.92	74.00	-27.08	PK	Ver
5*	8917.7000	54.66	-3.82	50.84	68.20	-17.36	PK	Ver
6*	14362.0000	50.05	0.72	50.77	68.20	-17.43	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5580	
Note: Worst Case	



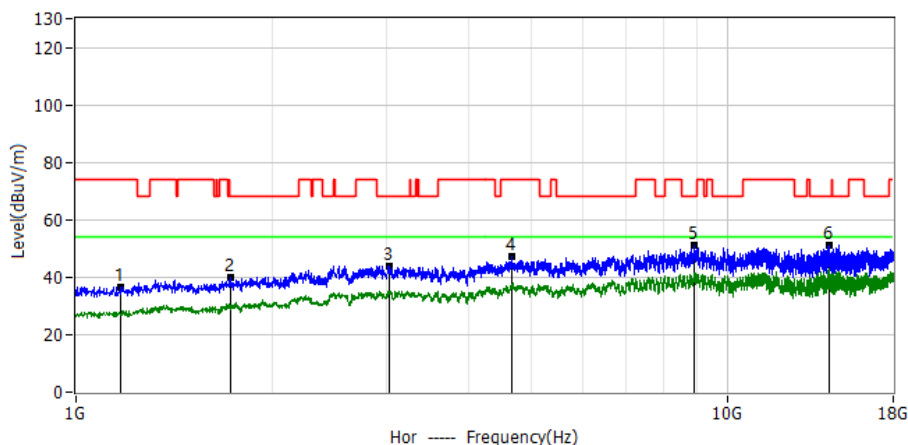
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1053.1000	61.28	-24.29	36.99	74.00	-37.01	PK	Hor
2*	1437.7000	60.36	-21.27	39.09	74.00	-34.91	PK	Hor
3*	2780.7000	54.30	-9.88	44.42	74.00	-29.58	PK	Hor
4*	5148.0000	54.56	-7.50	47.06	74.00	-26.94	PK	Hor
5*	9000.6000	54.22	-3.67	50.55	74.00	-23.45	PK	Hor
6*	16380.7000	50.04	0.76	50.80	68.20	-17.40	PK	Hor



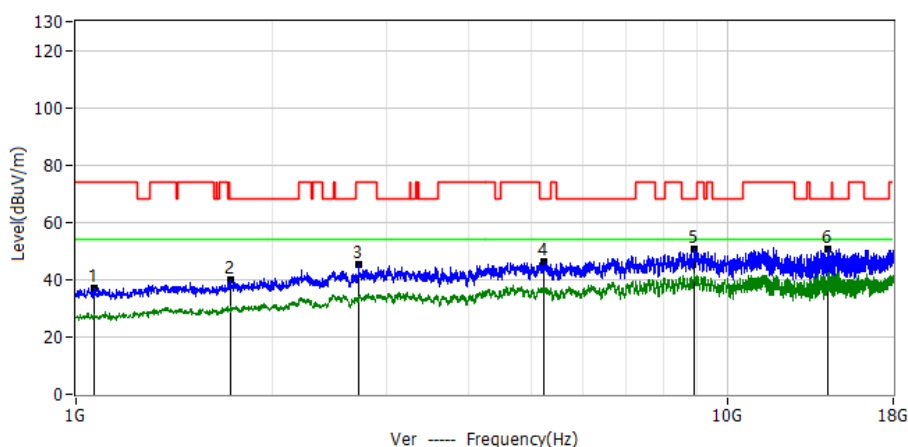
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1091.4000	60.91	-23.95	36.96	74.00	-37.04	PK	Ver
2*	1701.2000	58.37	-19.35	39.02	74.00	-34.98	PK	Ver
3*	2521.5000	55.25	-11.20	44.05	68.20	-24.15	PK	Ver
4*	4582.7000	52.77	-6.59	46.18	74.00	-27.82	PK	Ver
5*	8919.9000	54.36	-3.82	50.54	68.20	-17.66	PK	Ver
6*	17853.4000	48.76	1.95	50.71	74.00	-23.29	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5700	
Note: Worst Case	



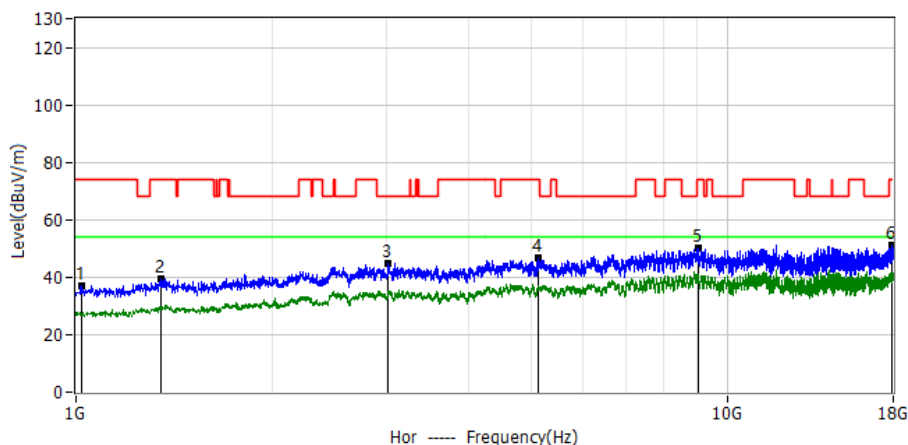
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1172.1000	59.91	-23.25	36.66	74.00	-37.34	PK	Hor
2*	1728.9000	58.91	-19.09	39.82	68.20	-28.38	PK	Hor
3*	3025.1000	52.77	-8.78	43.99	68.20	-24.21	PK	Hor
4*	4672.0000	53.76	-6.67	47.09	74.00	-26.91	PK	Hor
5*	8915.6000	54.76	-3.82	50.94	68.20	-17.26	PK	Hor
6*	14370.5000	50.40	0.72	51.12	68.20	-17.08	PK	Hor



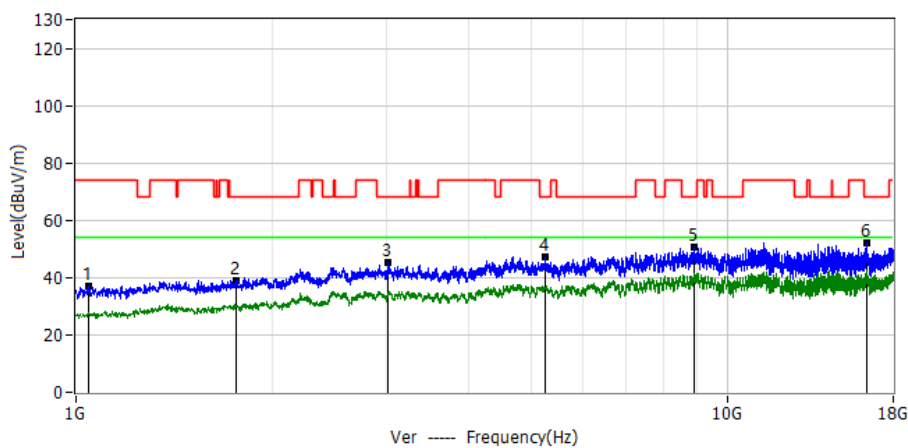
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1063.7000	61.20	-24.20	37.00	74.00	-37.00	PK	Ver
2*	1728.9000	58.79	-19.09	39.70	68.20	-28.50	PK	Ver
3*	2712.7000	55.54	-10.23	45.31	74.00	-28.69	PK	Ver
4*	5226.6000	54.02	-7.77	46.25	68.20	-21.95	PK	Ver
5*	8905.0000	54.28	-3.84	50.44	68.20	-17.76	PK	Ver
6*	14262.1000	50.09	0.76	50.85	68.20	-17.35	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5745	
Note: Worst Case	



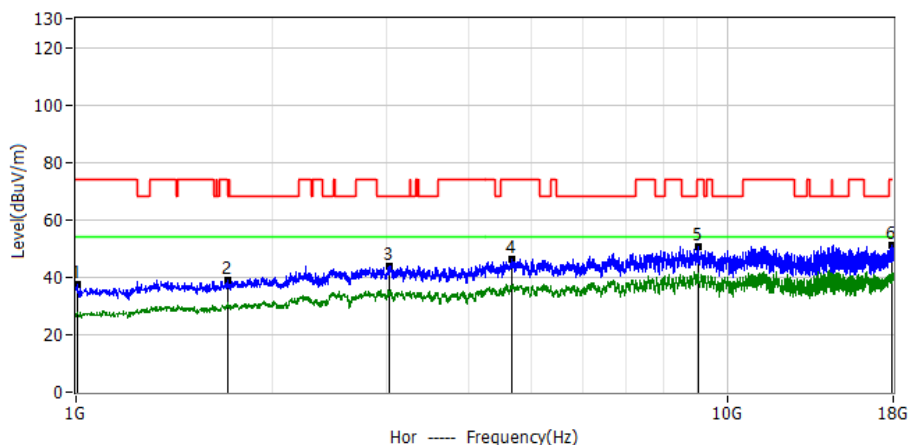
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1021.2000	61.81	-24.57	37.24	74.00	-36.76	PK	Hor
2*	1350.6000	61.30	-21.85	39.45	74.00	-34.55	PK	Hor
3*	3012.4000	53.51	-8.78	44.73	68.20	-23.47	PK	Hor
4*	5133.1000	53.99	-7.45	46.54	74.00	-27.46	PK	Hor
5*	9032.5000	53.82	-3.69	50.13	74.00	-23.87	PK	Hor
6*	17953.2000	49.12	2.00	51.12	74.00	-22.88	PK	Hor



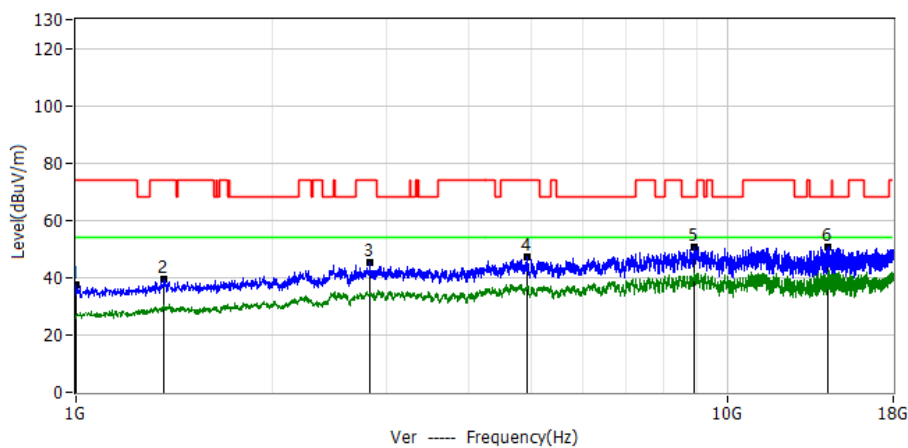
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1044.6000	61.35	-24.36	36.99	74.00	-37.01	PK	Ver
2*	1760.7000	57.95	-18.79	39.16	68.20	-29.04	PK	Ver
3*	3010.2000	53.86	-8.77	45.09	68.20	-23.11	PK	Ver
4*	5258.5000	55.27	-7.88	47.39	68.20	-20.81	PK	Ver
5*	8907.1000	54.60	-3.84	50.76	68.20	-17.44	PK	Ver
6*	16385.0000	51.17	0.76	51.93	68.20	-16.27	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5785	
Note: Worst Case	



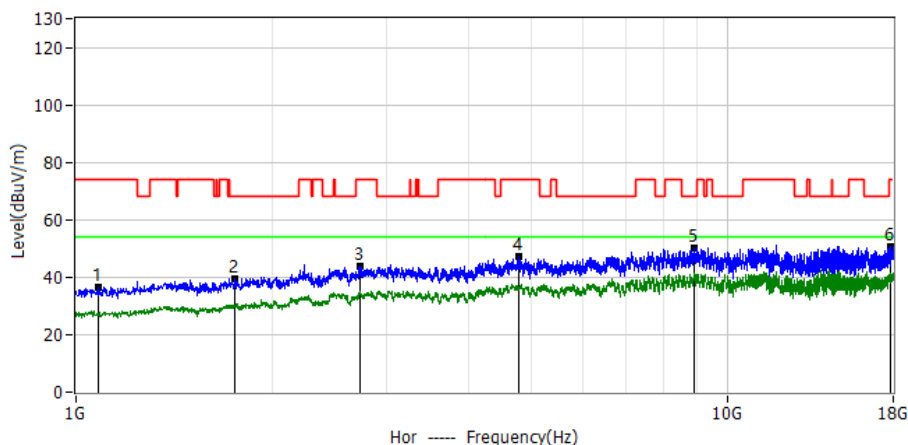
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1006.4000	62.06	-24.69	37.37	74.00	-36.63	PK	Hor
2*	1709.7000	58.16	-19.27	38.89	74.00	-35.11	PK	Hor
3*	3027.2000	52.39	-8.78	43.61	68.20	-24.59	PK	Hor
4*	4676.2000	53.13	-6.68	46.45	74.00	-27.55	PK	Hor
5*	9017.6000	54.23	-3.68	50.55	74.00	-23.45	PK	Hor
6*	17951.1000	49.02	2.00	51.02	74.00	-22.98	PK	Hor



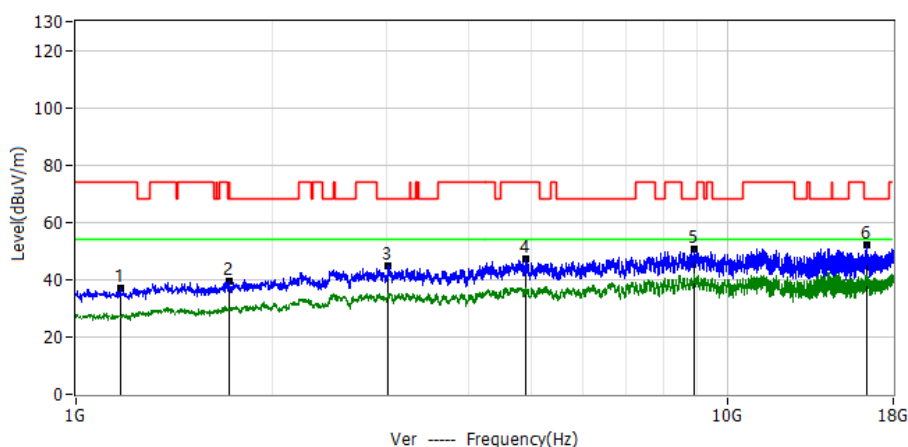
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1002.1000	62.06	-24.73	37.33	74.00	-36.67	PK	Ver
2*	1365.5000	61.08	-21.73	39.35	74.00	-34.65	PK	Ver
3*	2823.2000	54.86	-9.67	45.19	74.00	-28.81	PK	Ver
4*	4941.9000	54.08	-6.94	47.14	74.00	-26.86	PK	Ver
5*	8913.5000	54.38	-3.83	50.55	68.20	-17.65	PK	Ver
6*	14270.6000	50.10	0.76	50.86	68.20	-17.34	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5825	
Note: Worst Case	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1082.9000	60.71	-24.03	36.68	74.00	-37.32	PK	Hor
2*	1756.5000	58.34	-18.83	39.51	68.20	-28.69	PK	Hor
3*	2727.6000	53.80	-10.15	43.65	74.00	-30.35	PK	Hor
4*	4786.7000	53.93	-6.79	47.14	74.00	-26.86	PK	Hor
5*	8915.6000	54.05	-3.82	50.23	68.20	-17.97	PK	Hor
6*	17853.4000	48.74	1.95	50.69	74.00	-23.31	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1170.0000	60.06	-23.27	36.79	74.00	-37.21	PK	Ver
2*	1718.2000	58.68	-19.19	39.49	68.20	-28.71	PK	Ver
3*	3018.7000	53.71	-8.78	44.93	68.20	-23.27	PK	Ver
4*	4910.0000	54.37	-6.91	47.46	74.00	-26.54	PK	Ver
5*	8894.4000	54.42	-3.86	50.56	68.20	-17.64	PK	Ver
6*	16387.1000	51.17	0.77	51.94	68.20	-16.26	PK	Ver

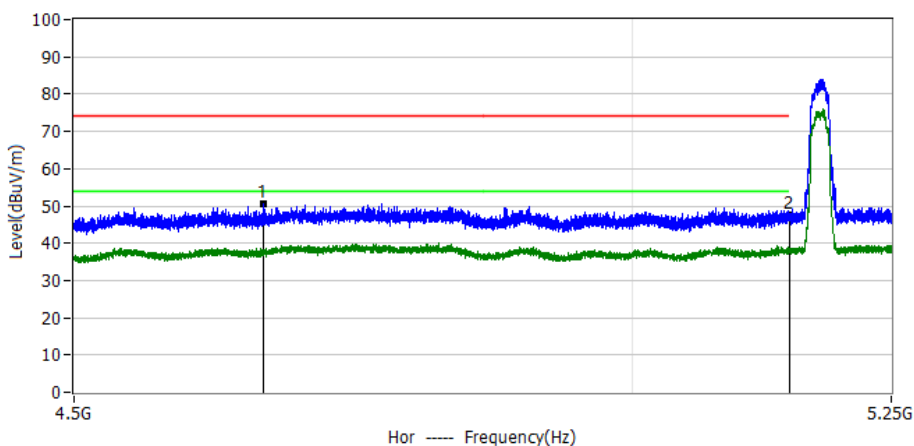
Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

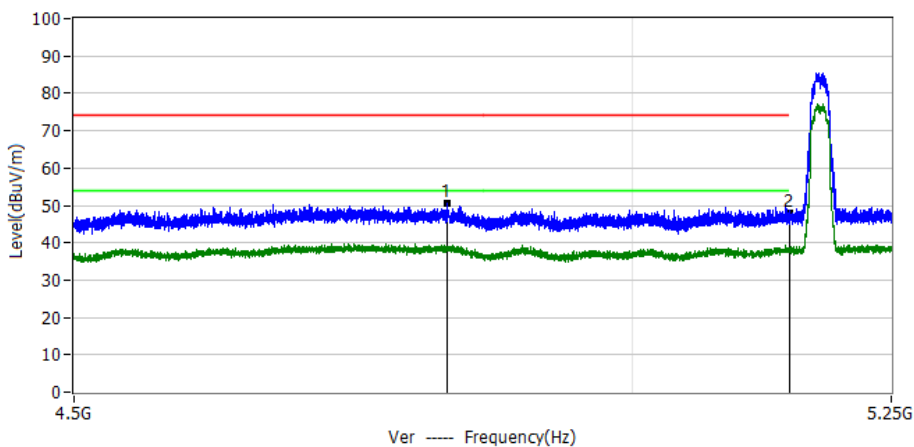


3.2.7 TEST RESULTS(Band edge Requirements)

Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5180	
Note:	



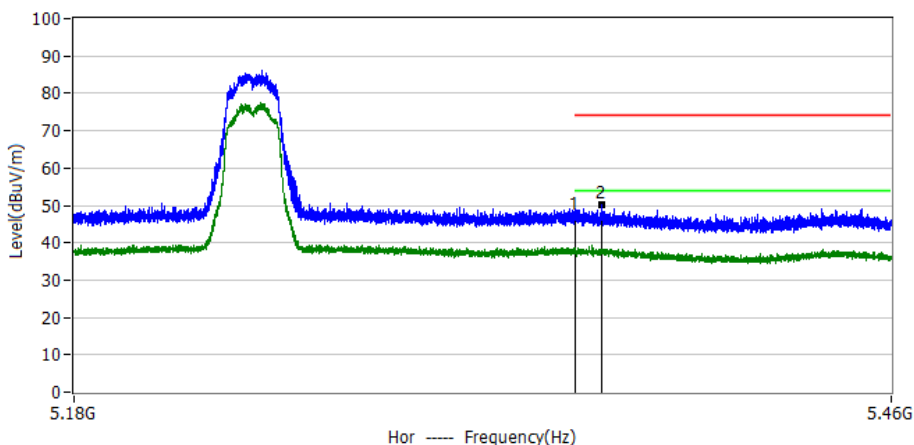
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4664.2000	57.22	-6.67	50.55	74.00	-23.45	PK	Hor
2*	5150.0000	54.91	-7.51	47.40	74.00	-26.60	PK	Hor



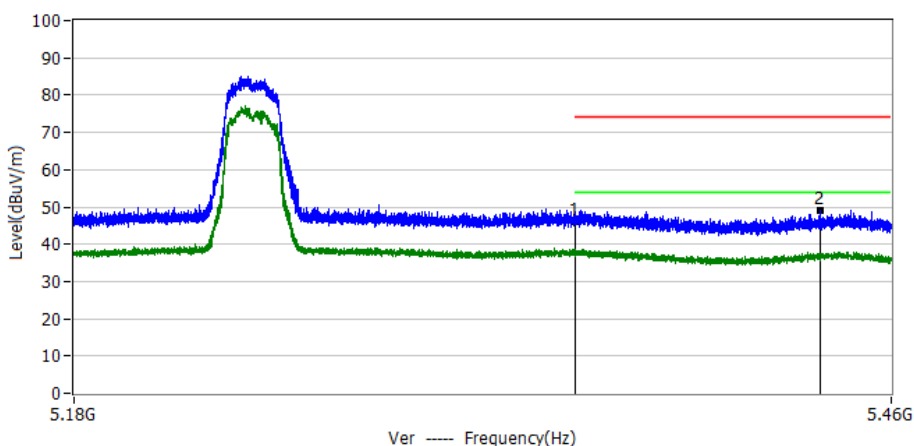
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4828.7000	57.21	-6.83	50.38	74.00	-23.62	PK	Ver
2*	5150.0000	55.41	-7.51	47.90	74.00	-26.10	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5240	
Note:	



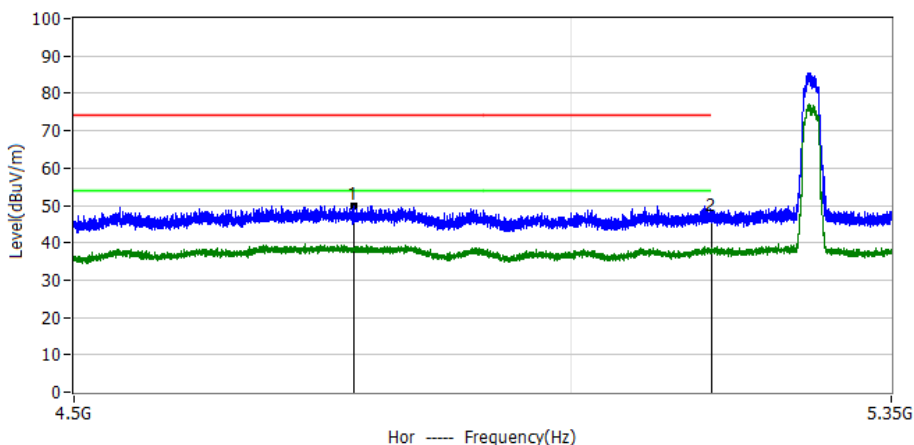
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5350.0000	55.29	-8.19	47.10	74.00	-26.90	PK	Hor
2*	5359.3000	58.33	-8.22	50.11	74.00	-23.89	PK	Hor



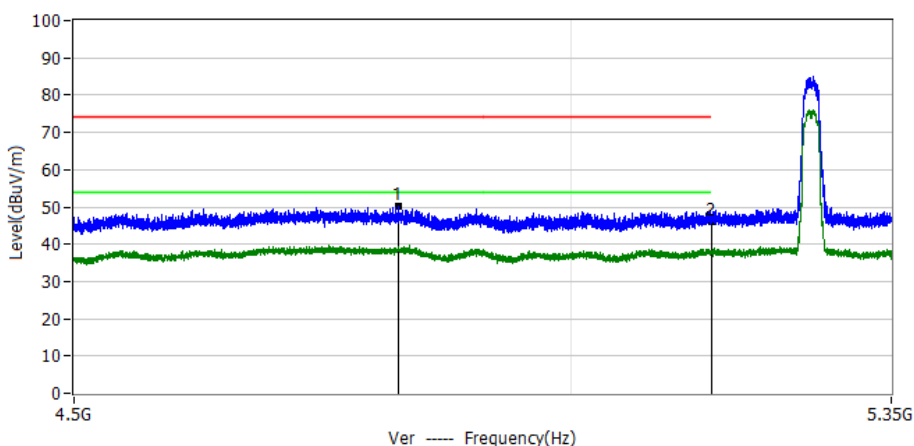
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5350.0000	54.29	-8.19	46.10	74.00	-27.90	PK	Ver
2*	5435.3000	57.56	-8.48	49.08	74.00	-24.92	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5260	
Note:	



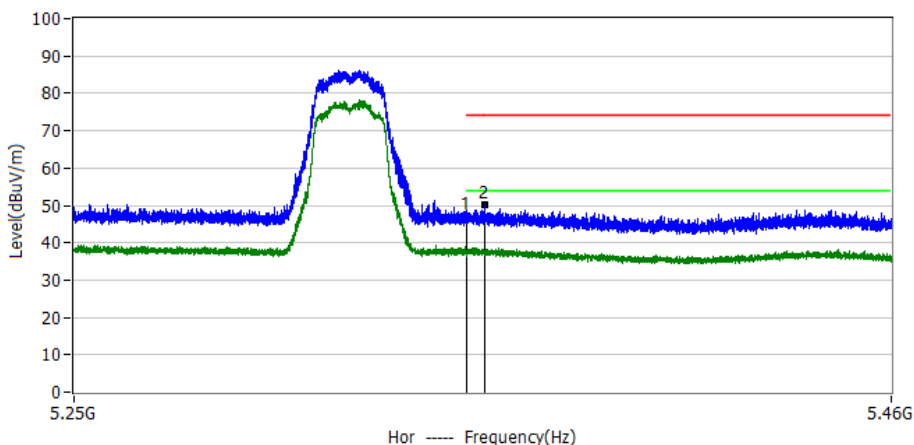
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4774.5000	56.72	-6.78	49.94	74.00	-24.06	PK	Hor
2*	5150.0000	54.51	-7.51	47.00	74.00	-27.00	PK	Hor



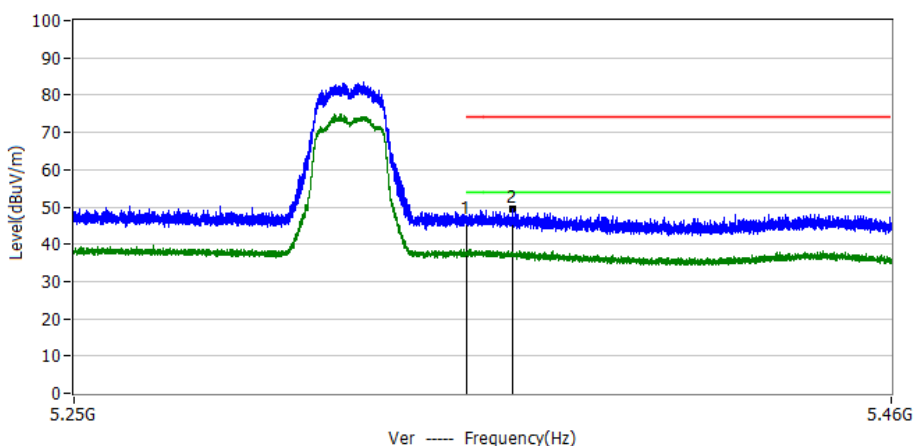
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4819.5000	57.02	-6.82	50.20	74.00	-23.80	PK	Ver
2*	5150.0000	53.61	-7.51	46.10	74.00	-27.90	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5320	
Note:	



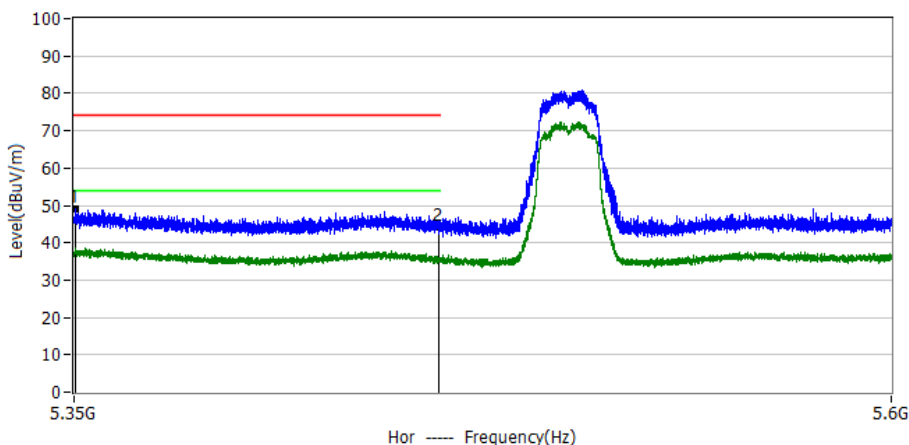
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5350.0000	55.39	-8.19	47.20	74.00	-26.80	PK	Hor
2*	5354.4000	58.24	-8.21	50.03	74.00	-23.97	PK	Hor



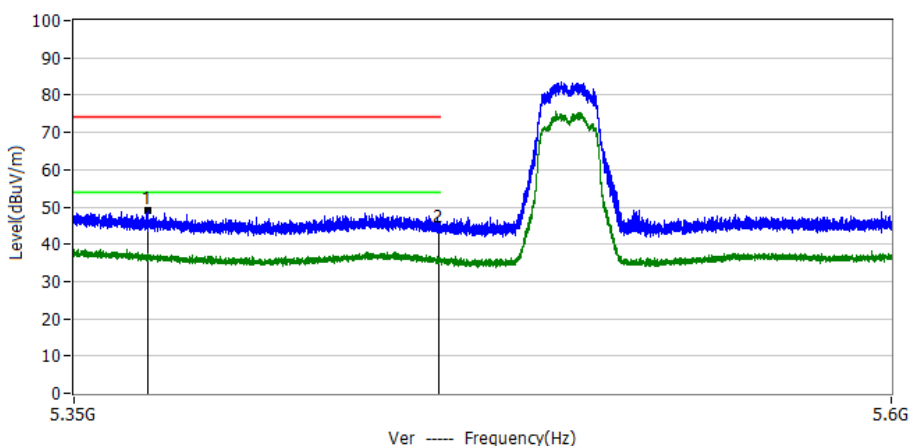
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5350.0000	54.49	-8.19	46.30	74.00	-27.70	PK	Ver
2*	5361.6000	57.65	-8.23	49.42	74.00	-24.58	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5500	
Note:	



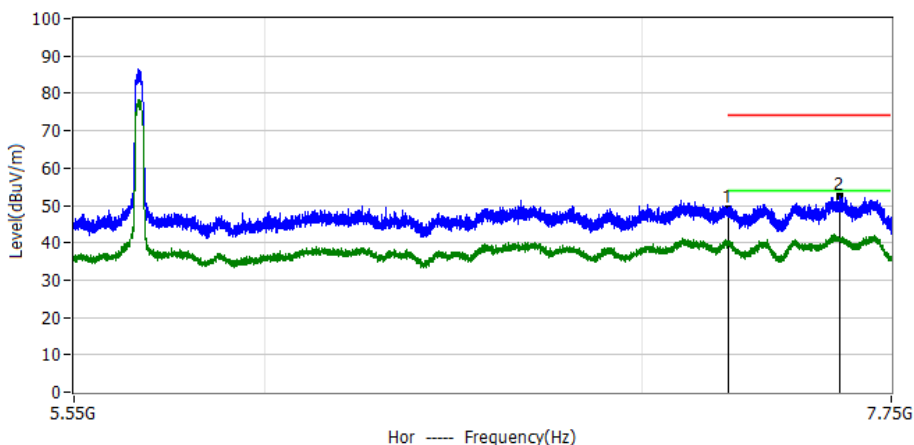
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5350.6000	57.14	-8.19	48.95	74.00	-25.05	PK	Hor
2*	5460.0000	52.67	-8.57	44.10	74.00	-29.90	PK	Hor



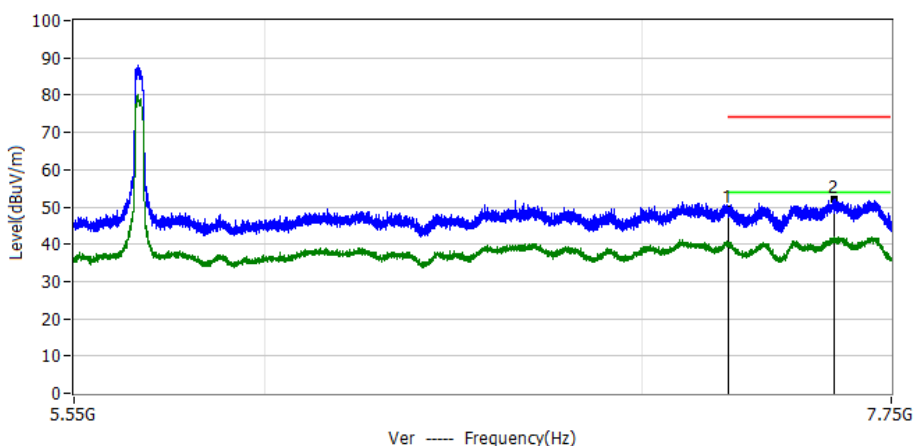
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	5372.1000	57.30	-8.27	49.03	74.00	-24.97	PK	Ver
2*	5460.0000	52.77	-8.57	44.20	74.00	-29.80	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5700	
Note:	



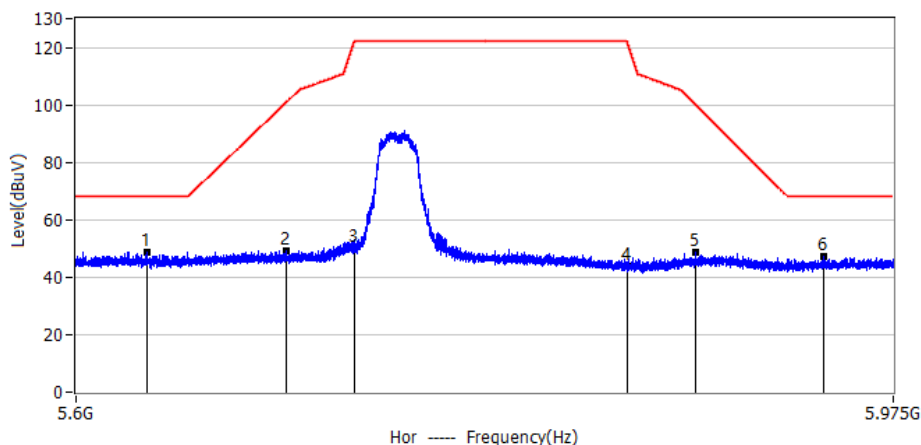
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	7250.0000	55.33	-6.33	49.00	74.00	-25.00	PK	Hor
2*	7586.9000	57.94	-5.66	52.28	74.00	-21.72	PK	Hor



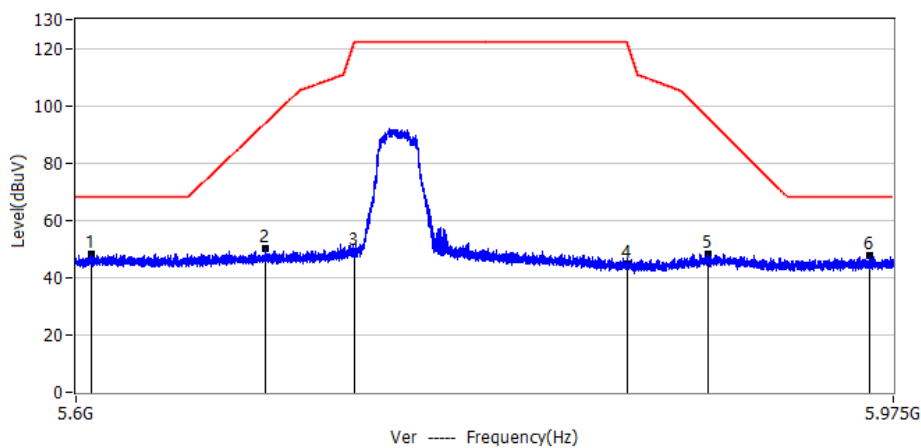
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	7250.0000	55.63	-6.33	49.30	74.00	-24.70	PK	Ver
2*	7571.0000	57.69	-5.66	52.03	74.00	-21.97	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5745	
Note:	



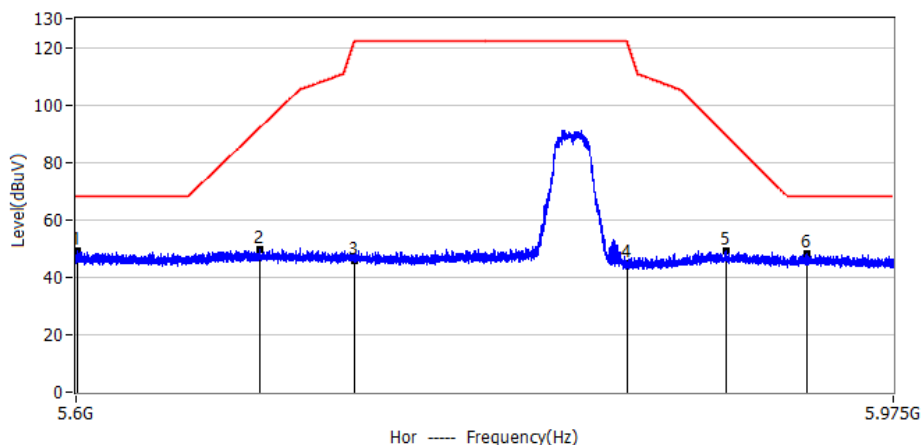
No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	5631.8000	57.30	-8.68	48.62	68.20	-19.58	PK	Hor
2*	5693.9000	58.08	-8.67	49.41	100.73	-51.32	PK	Hor
3*	5725.0000	58.76	-8.66	50.10	122.20	-72.00	PK	Hor
4*	5850.0000	52.54	-8.64	43.90	122.20	-78.20	PK	Hor
5*	5881.9000	57.14	-8.63	48.51	100.07	-51.56	PK	Hor
6*	5942.2000	55.63	-8.62	47.01	68.20	-21.19	PK	Hor



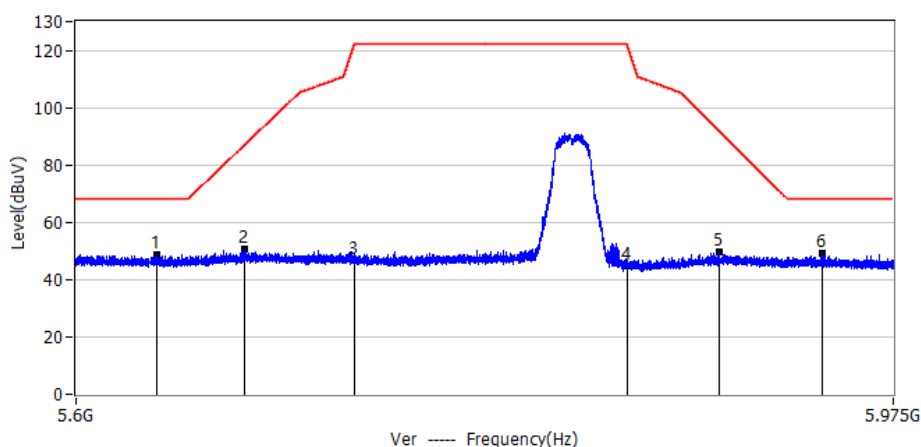
No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	5607.1000	56.79	-8.68	48.11	68.20	-20.09	PK	Ver
2*	5684.7000	58.68	-8.67	50.01	93.91	-43.91	PK	Ver
3*	5725.0000	57.96	-8.66	49.30	122.20	-72.80	PK	Ver
4*	5850.0000	53.54	-8.64	44.90	122.20	-77.20	PK	Ver
5*	5887.6000	57.07	-8.63	48.44	95.86	-47.42	PK	Ver
6*	5963.7000	56.29	-8.62	47.67	68.20	-20.53	PK	Ver



Project: LGT24D119	Test Engineer: Xiangdong Ma
EUT: PoC Smart Radio	Temperature: 20.4°C
M/N: TE320A	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2024-04-27
Test Mode: 802.11a 5825	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	5600.9000	57.96	-8.69	49.27	68.20	-18.93	PK	Hor
2*	5682.5000	58.24	-8.67	49.57	92.25	-42.68	PK	Hor
3*	5725.0000	54.56	-8.66	45.90	122.20	-76.30	PK	Hor
4*	5850.0000	53.64	-8.64	45.00	122.20	-77.20	PK	Hor
5*	5896.1000	57.65	-8.63	49.02	89.58	-40.55	PK	Hor
6*	5934.1000	56.63	-8.62	48.01	68.20	-20.19	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	5635.7000	57.22	-8.68	48.54	68.20	-19.66	PK	Ver
2*	5675.3000	59.36	-8.67	50.69	86.98	-36.30	PK	Ver
3*	5725.0000	55.56	-8.66	46.90	122.20	-75.30	PK	Ver
4*	5850.0000	53.64	-8.64	45.00	122.20	-77.20	PK	Ver
5*	5893.3000	58.22	-8.63	49.59	91.59	-42.00	PK	Ver
6*	5941.2000	57.71	-8.62	49.09	68.20	-19.11	PK	Ver



4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable 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.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, 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 $RBW (< 500 \text{ kHz})$ 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 $RBW (< 1 \text{ MHz})$ 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 $RBW=100 \text{ KHZ}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.



4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.



5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW \geq RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak 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%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

For the measurement records, refer to the appendix I.



5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

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

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

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.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5 TEST RESULTS

For the measurement records, refer to the appendix I.



5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3.5 TEST RESULTS

For the measurement records, refer to the appendix I.



6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz, if transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Peak Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or $11 \text{ dBm} + 10 \log (26 \text{ dB emission bandwidth})$	5250-5350	
5470-5725				
15.407(a) (3)		1 watt	5725-5825	

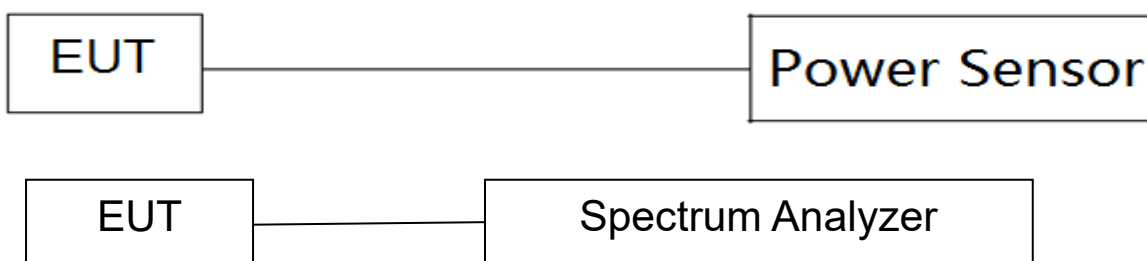
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

Part 15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is FPC Antenna. It comply with the standard requirement.



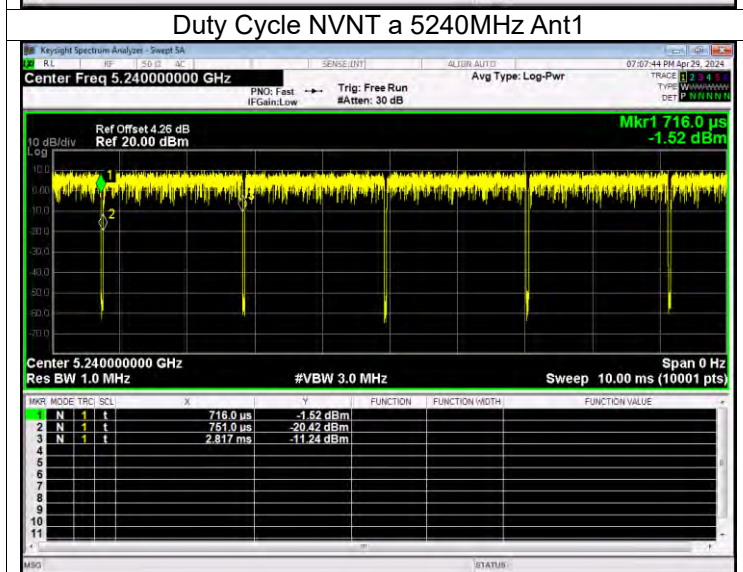
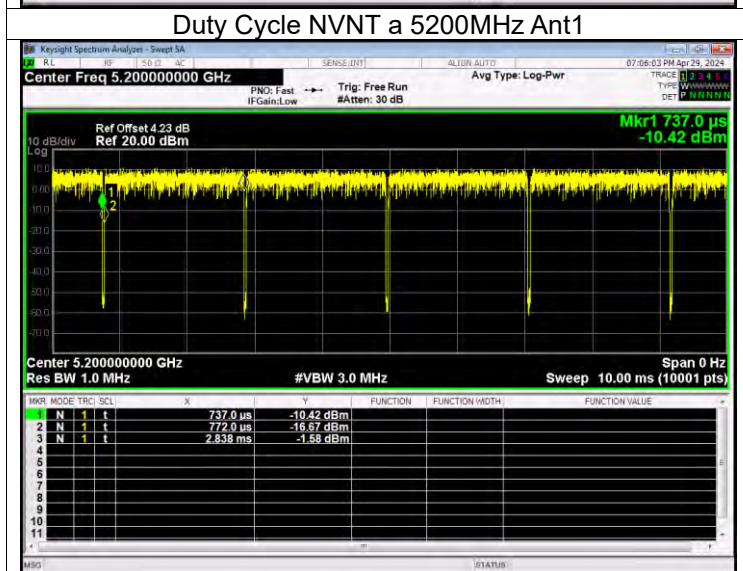
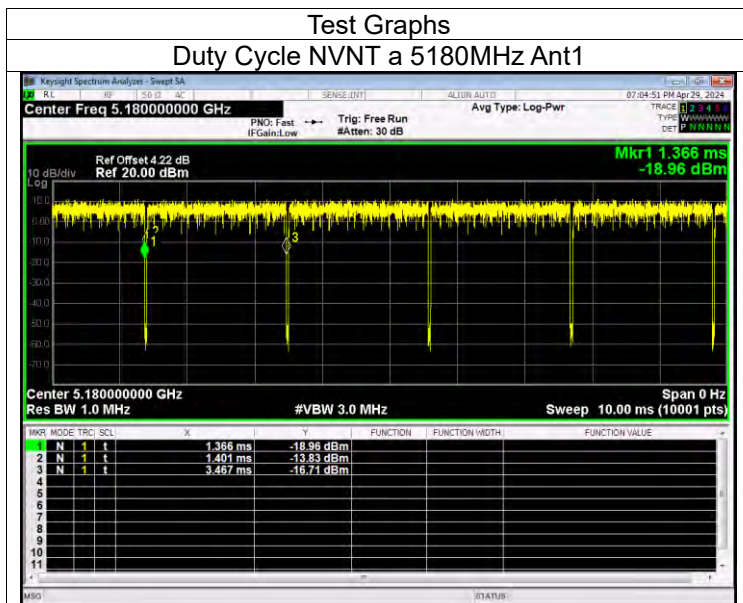
APPENDIX I - TEST RESULTS

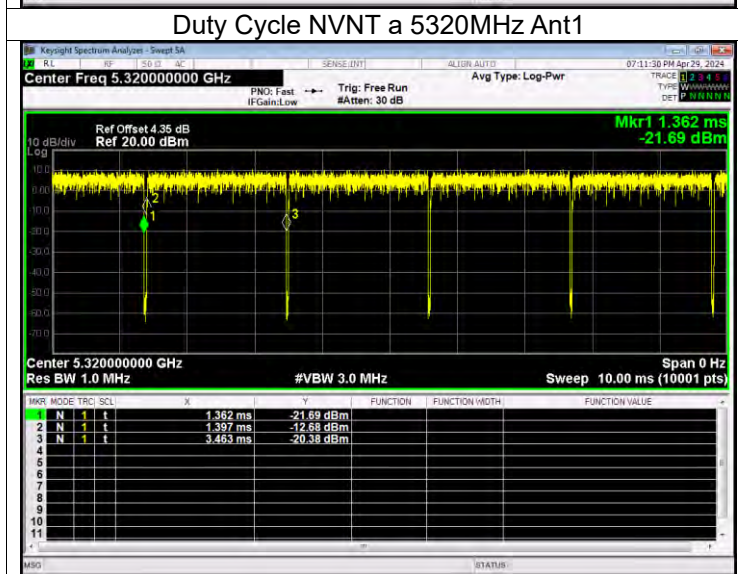
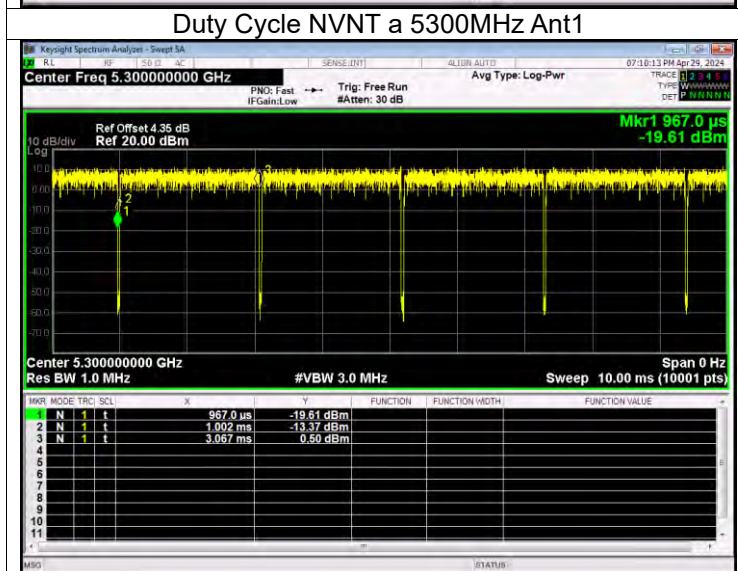
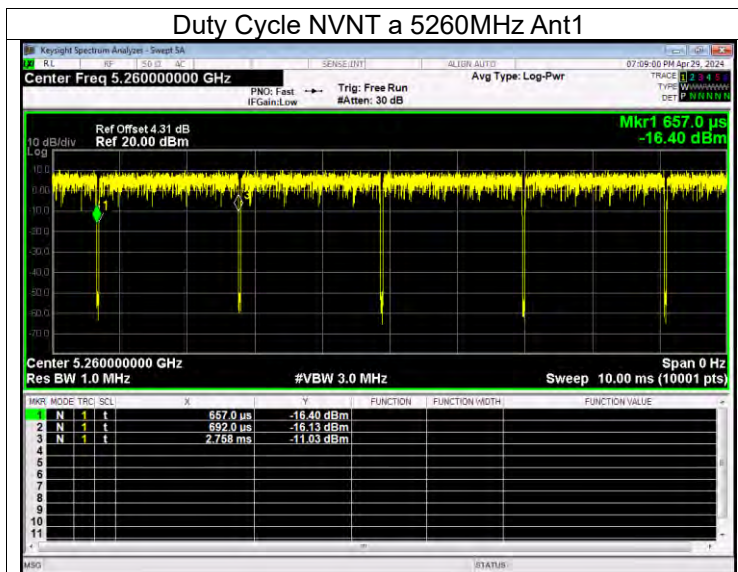
Duty Cycle

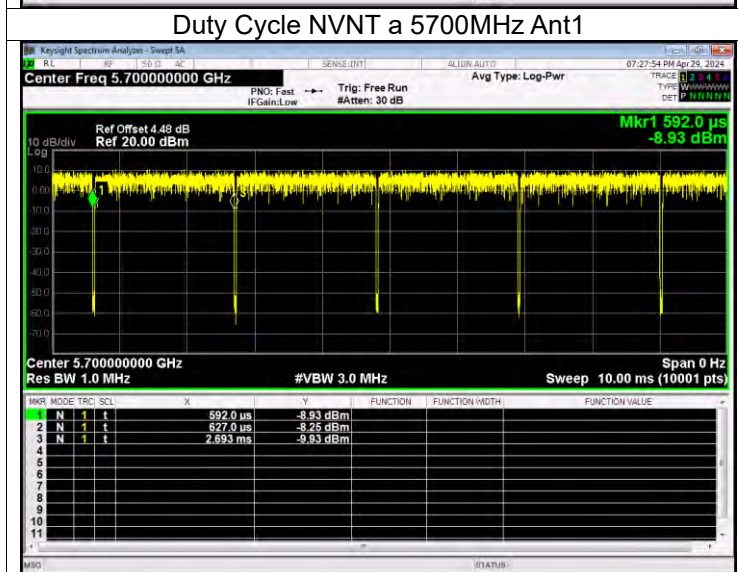
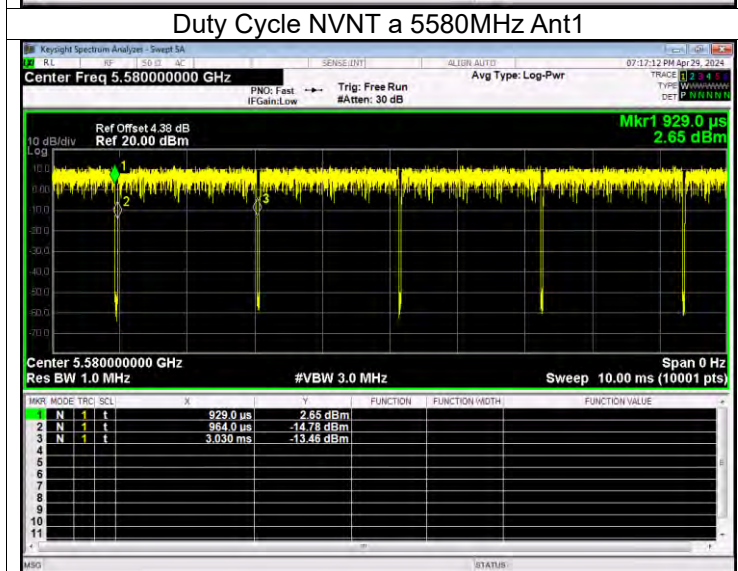
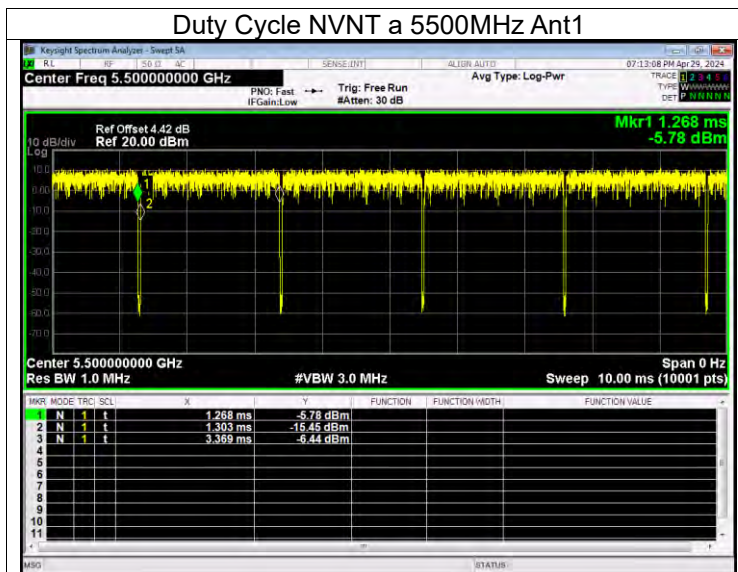
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.33	0	0.48
NVNT	a	5200	Ant1	98.33	0	0.48
NVNT	a	5240	Ant1	98.33	0	0.48
NVNT	a	5260	Ant1	98.33	0	0.48
NVNT	a	5300	Ant1	98.33	0	0.48
NVNT	a	5320	Ant1	98.33	0	0.48
NVNT	a	5500	Ant1	98.33	0	0.48
NVNT	a	5580	Ant1	98.33	0	0.48
NVNT	a	5700	Ant1	98.33	0	0.48
NVNT	a	5745	Ant1	98.33	0	0.48
NVNT	a	5785	Ant1	98.38	0	0.48
NVNT	a	5825	Ant1	98.38	0	0.48
NVNT	n20	5180	Ant1	98.22	0	0.52
NVNT	n20	5200	Ant1	98.22	0	0.52
NVNT	n20	5240	Ant1	98.21	0	0.52
NVNT	n20	5260	Ant1	98.22	0	0.52
NVNT	n20	5300	Ant1	98.16	0	0.52
NVNT	n20	5320	Ant1	98.22	0	0.52
NVNT	n20	5500	Ant1	98.22	0	0.52
NVNT	n20	5580	Ant1	98.22	0	0.52
NVNT	n20	5700	Ant1	98.27	0	0.52
NVNT	n20	5745	Ant1	98.27	0	0.52
NVNT	n20	5785	Ant1	98.22	0	0.52
NVNT	n20	5825	Ant1	98.22	0	0.52
NVNT	n40	5190	Ant1	96.54	0.15	1.05
NVNT	n40	5230	Ant1	96.54	0.15	1.05
NVNT	n40	5270	Ant1	96.44	0.16	1.05
NVNT	n40	5310	Ant1	96.44	0.16	1.05
NVNT	n40	5510	Ant1	96.44	0.16	1.05
NVNT	n40	5550	Ant1	96.44	0.16	1.05
NVNT	n40	5670	Ant1	96.44	0.16	1.05
NVNT	n40	5755	Ant1	96.45	0.16	1.05
NVNT	n40	5795	Ant1	96.44	0.16	1.05
NVNT	ac20	5180	Ant1	98.22	0	0.52
NVNT	ac20	5200	Ant1	98.17	0	0.52
NVNT	ac20	5240	Ant1	98.17	0	0.52
NVNT	ac20	5260	Ant1	98.22	0	0.52
NVNT	ac20	5300	Ant1	98.22	0	0.52
NVNT	ac20	5320	Ant1	98.22	0	0.52
NVNT	ac20	5500	Ant1	98.22	0	0.52
NVNT	ac20	5580	Ant1	98.22	0	0.52
NVNT	ac20	5700	Ant1	98.22	0	0.52
NVNT	ac20	5745	Ant1	98.22	0	0.52
NVNT	ac20	5785	Ant1	98.22	0	0.52
NVNT	ac20	5825	Ant1	98.22	0	0.52
NVNT	ac40	5190	Ant1	96.46	0.16	1.05
NVNT	ac40	5230	Ant1	96.46	0.16	1.05
NVNT	ac40	5270	Ant1	96.46	0.16	1.05
NVNT	ac40	5310	Ant1	96.46	0.16	1.05
NVNT	ac40	5510	Ant1	96.46	0.16	1.05
NVNT	ac40	5550	Ant1	96.46	0.16	1.05
NVNT	ac40	5670	Ant1	96.46	0.16	1.05
NVNT	ac40	5755	Ant1	96.46	0.16	1.05
NVNT	ac40	5795	Ant1	96.46	0.16	1.05
NVNT	ac80	5210	Ant1	93	0.32	2.15
NVNT	ac80	5290	Ant1	93	0.32	2.15

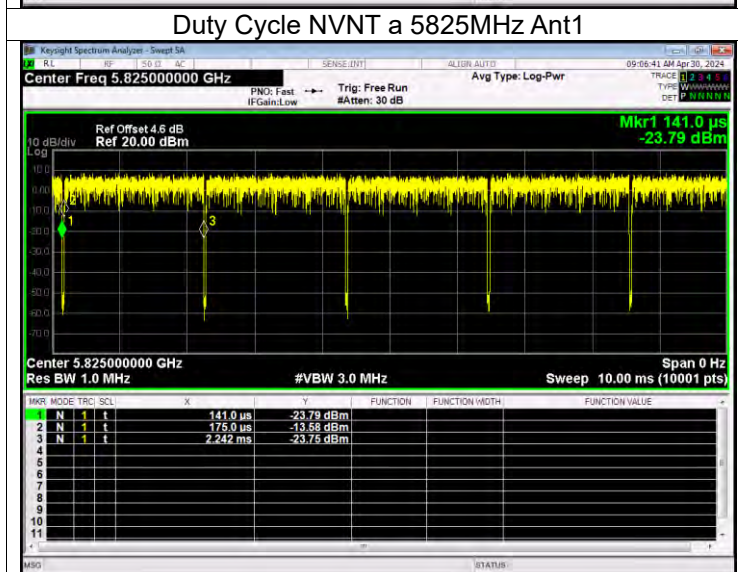
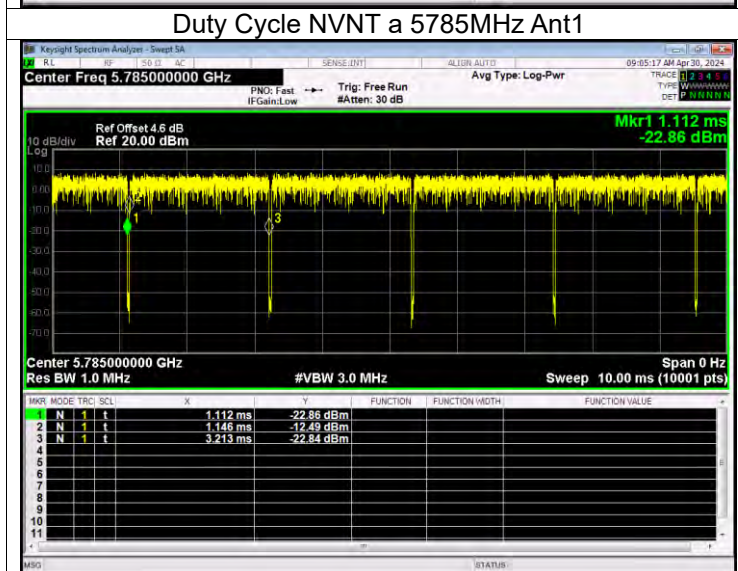
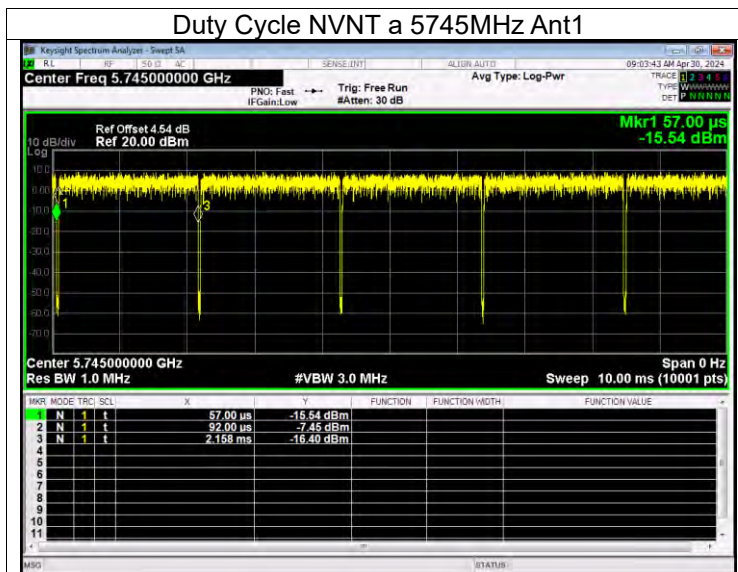


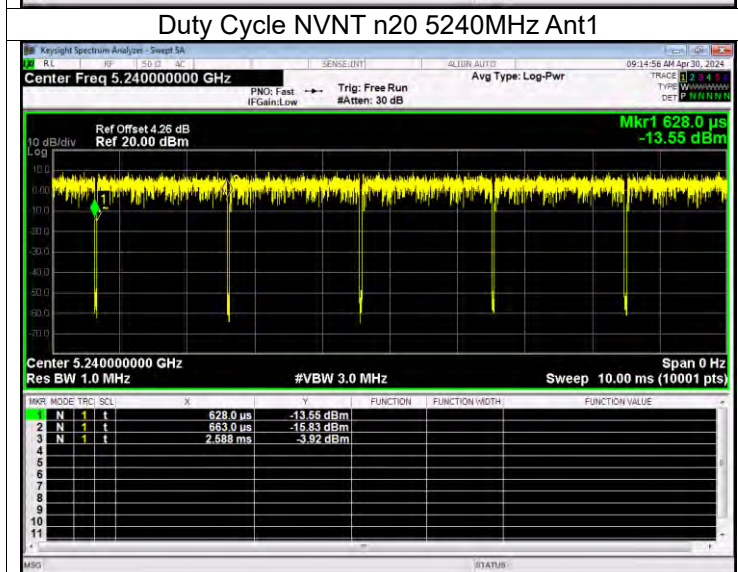
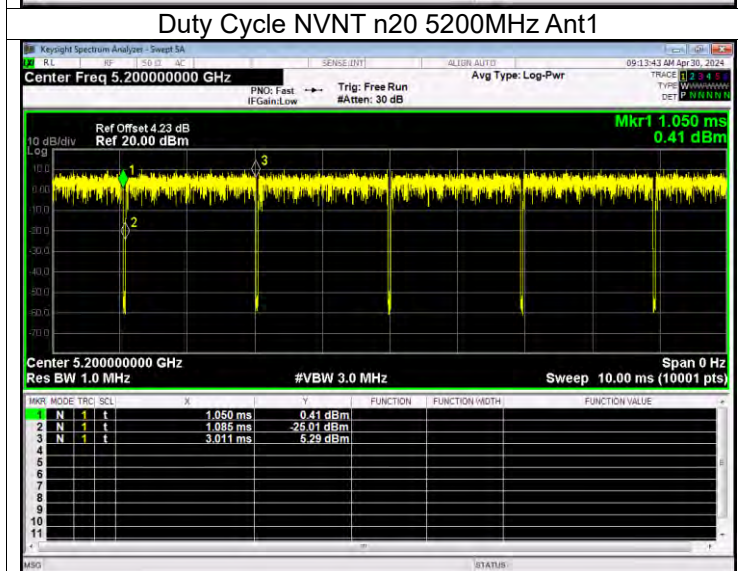
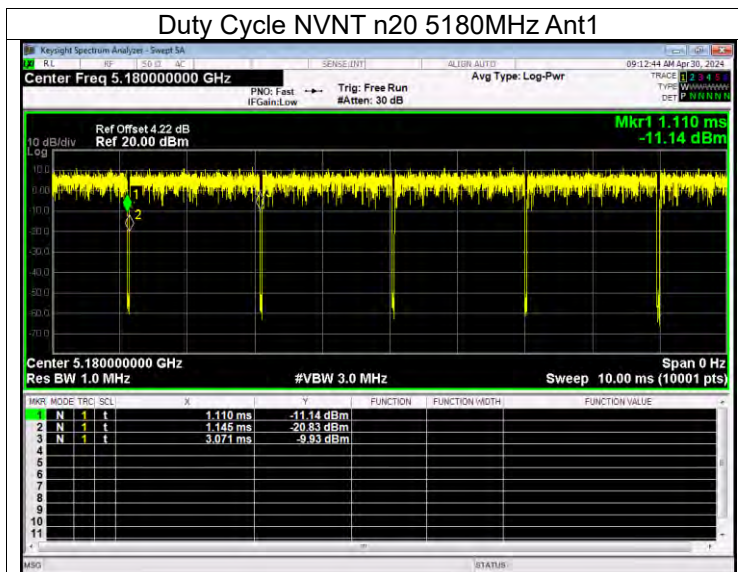
NVNT	ac80	5530	Ant1	93	0.32	2.15
NVNT	ac80	5610	Ant1	93	0.32	2.15
NVNT	ac80	5775	Ant1	93	0.32	2.15

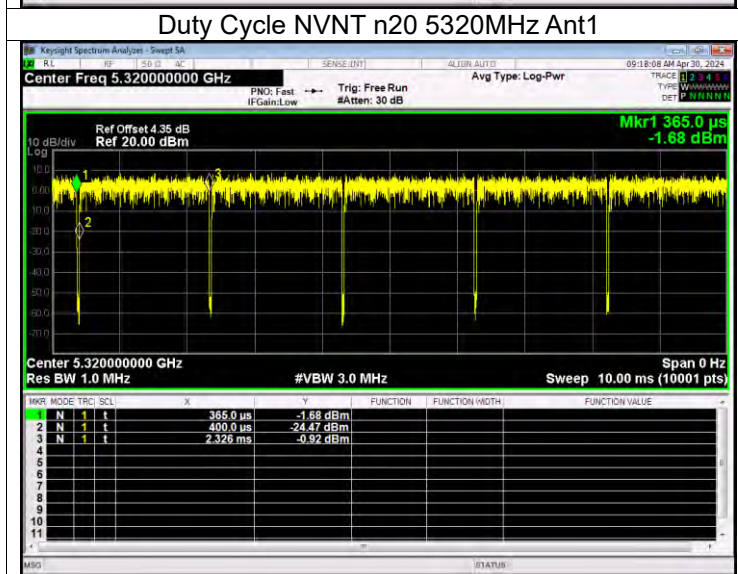
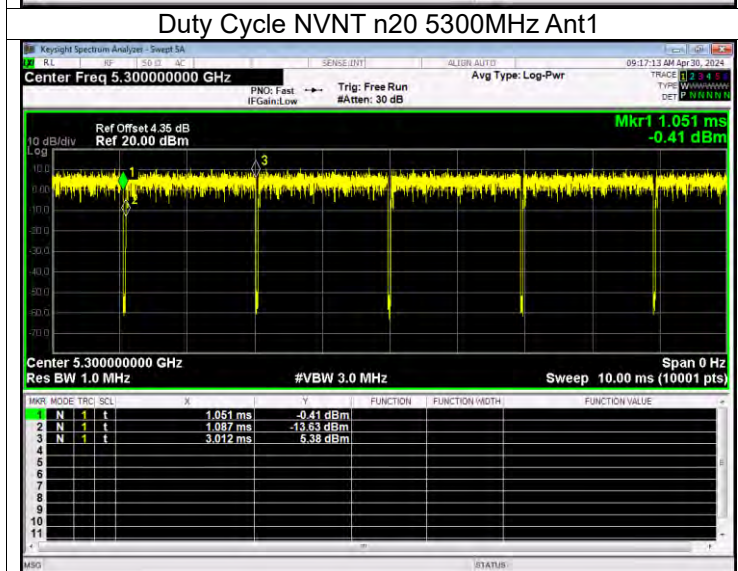
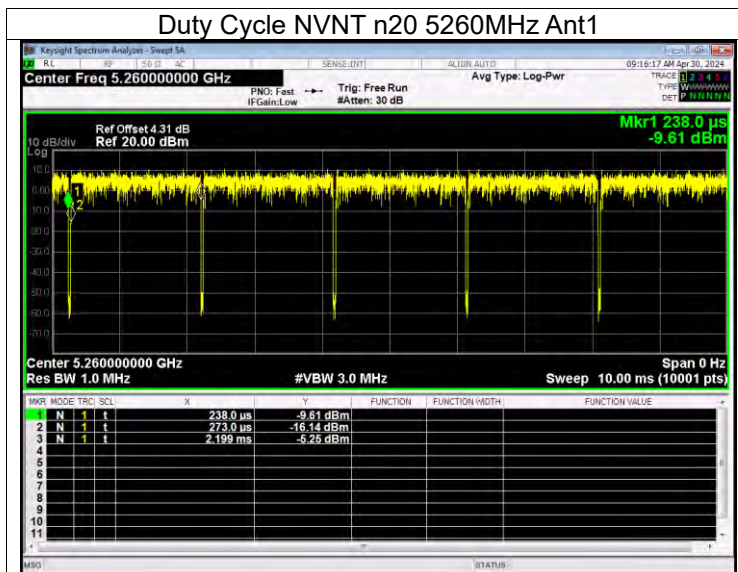


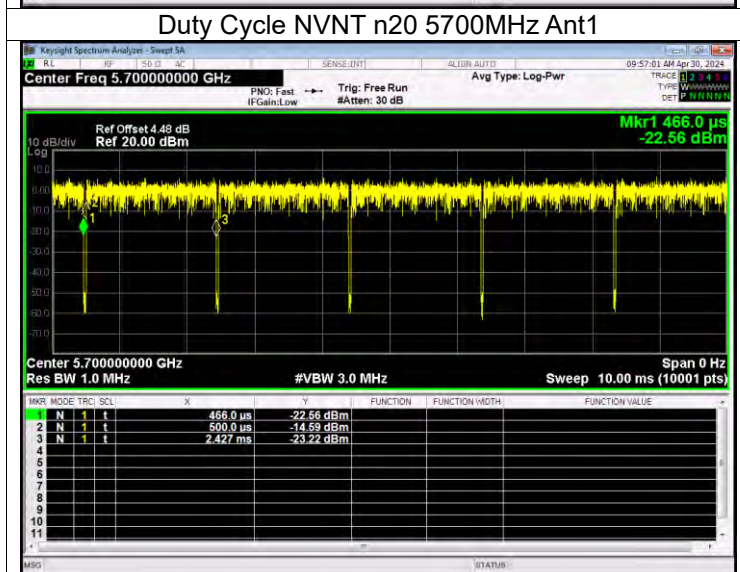
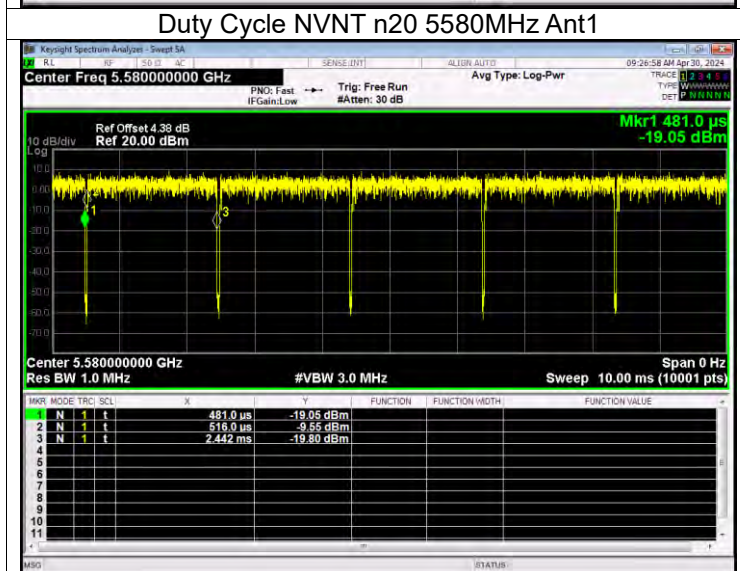
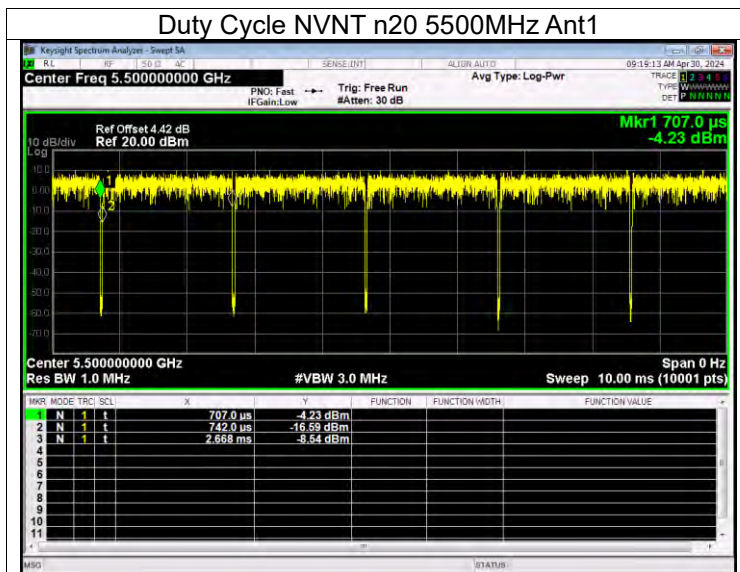


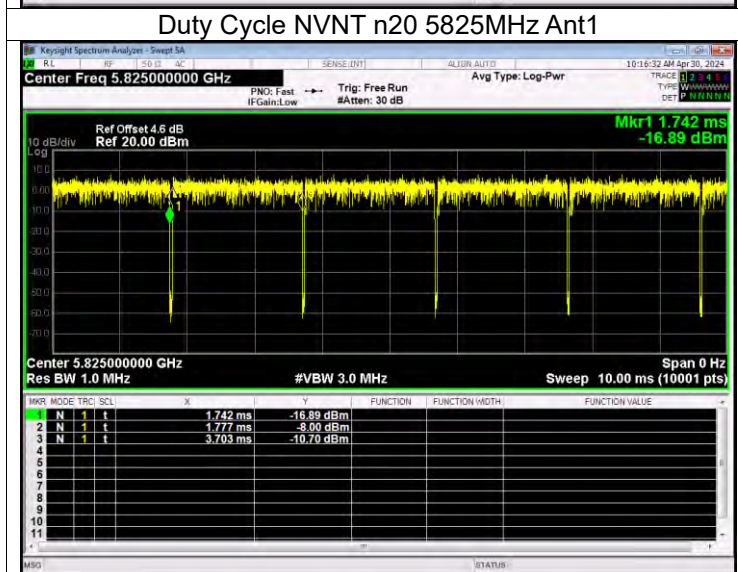
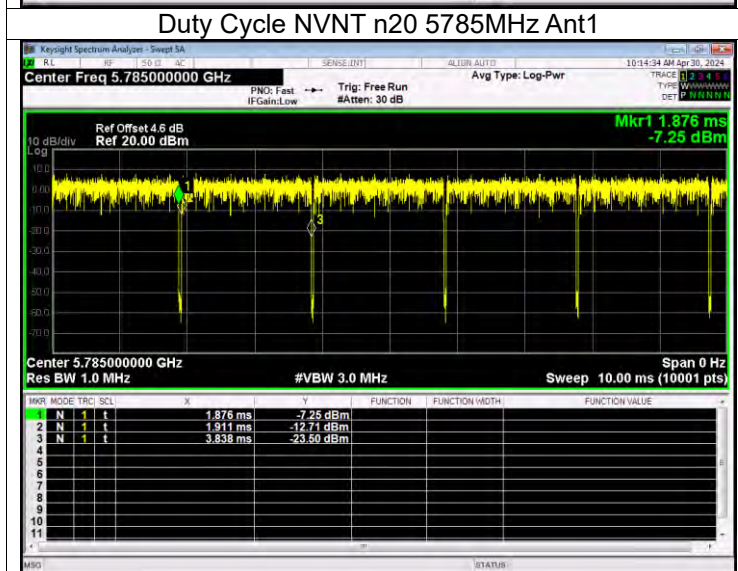
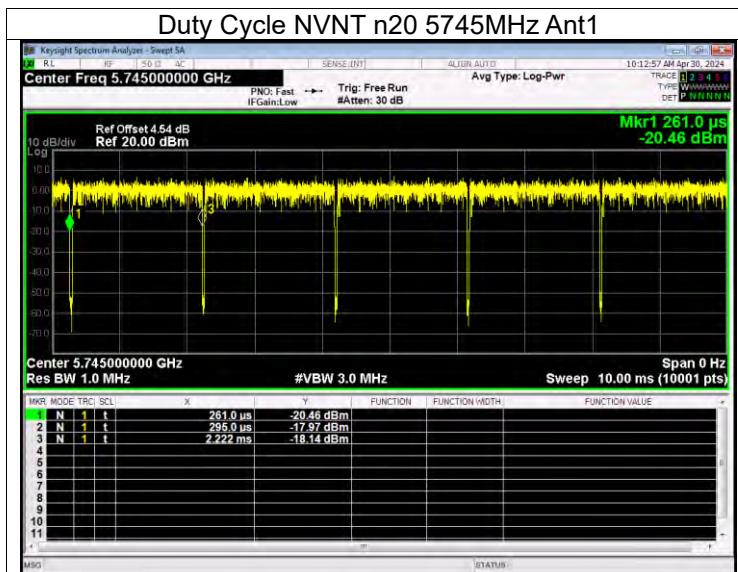


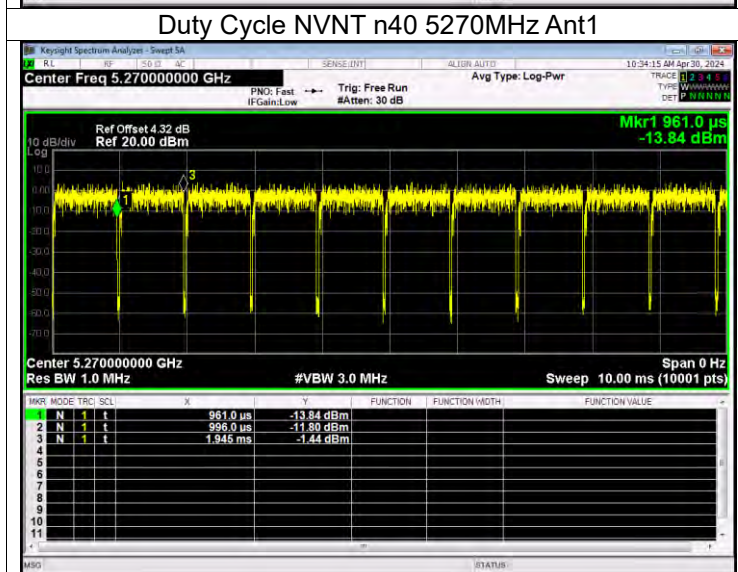
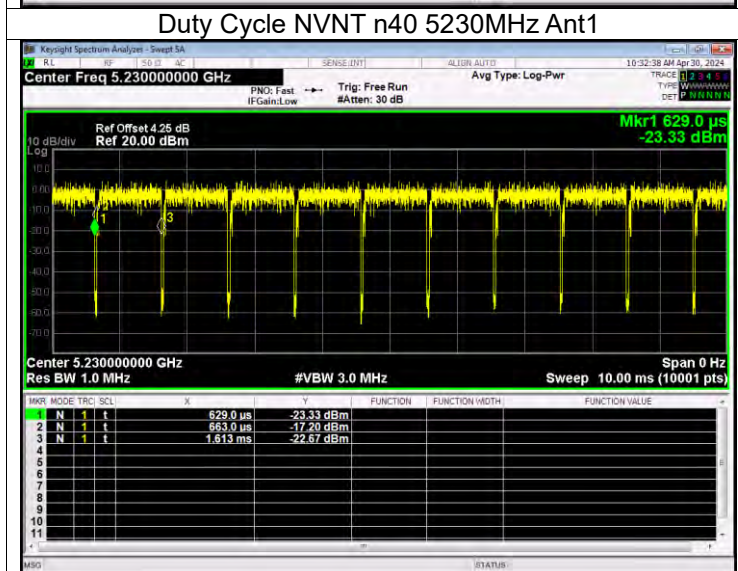
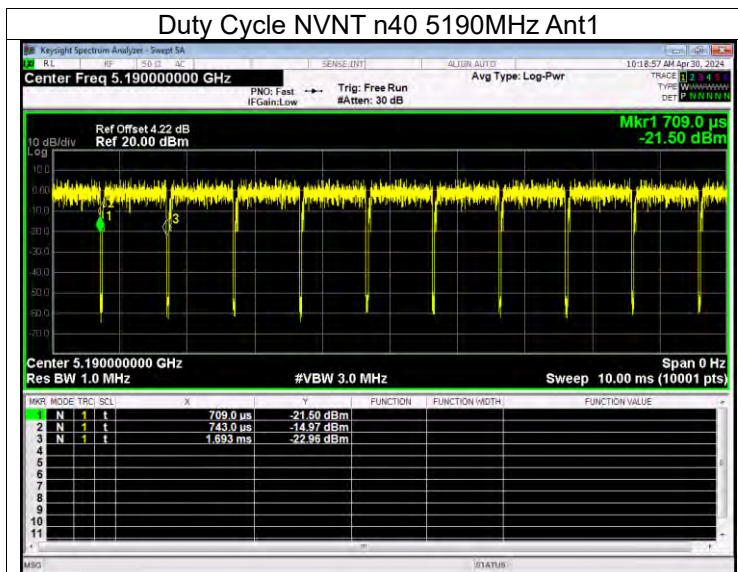


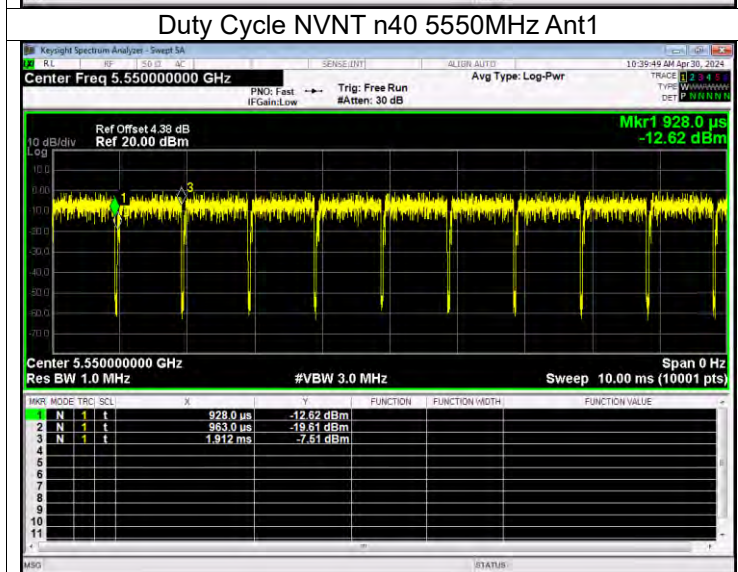
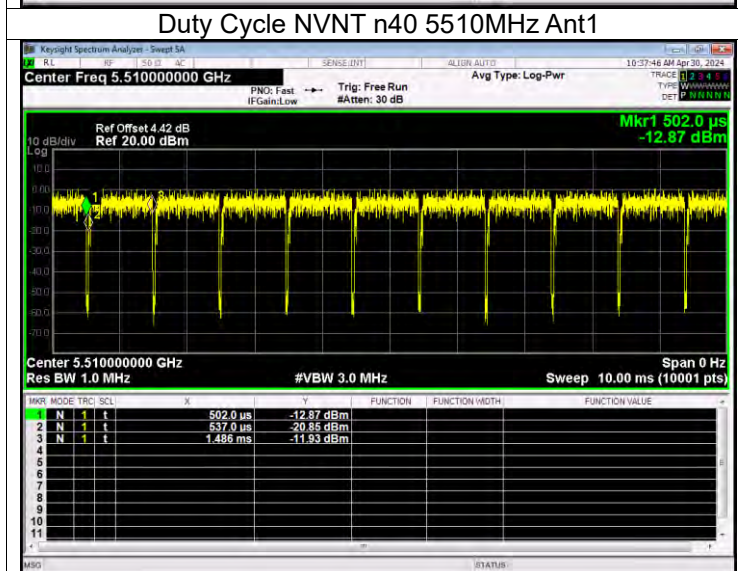
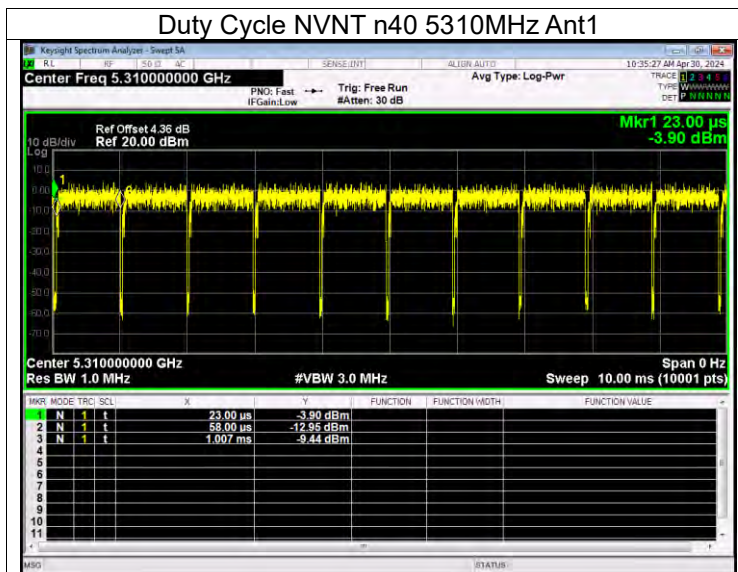


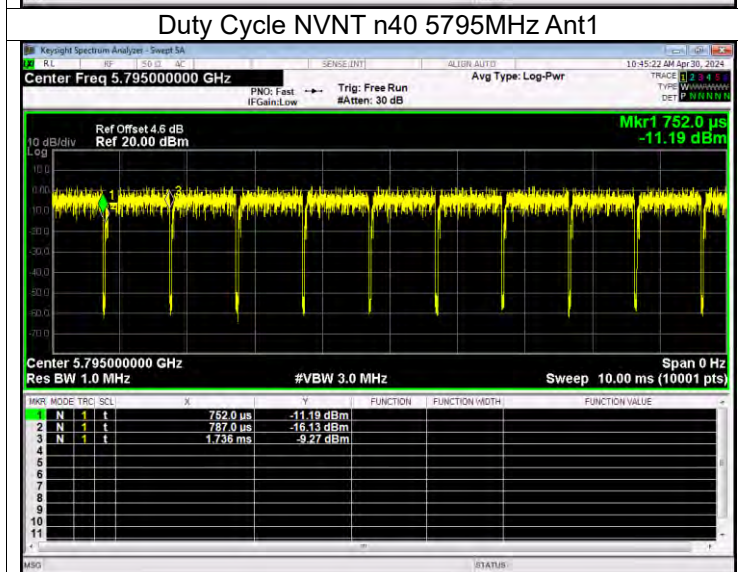
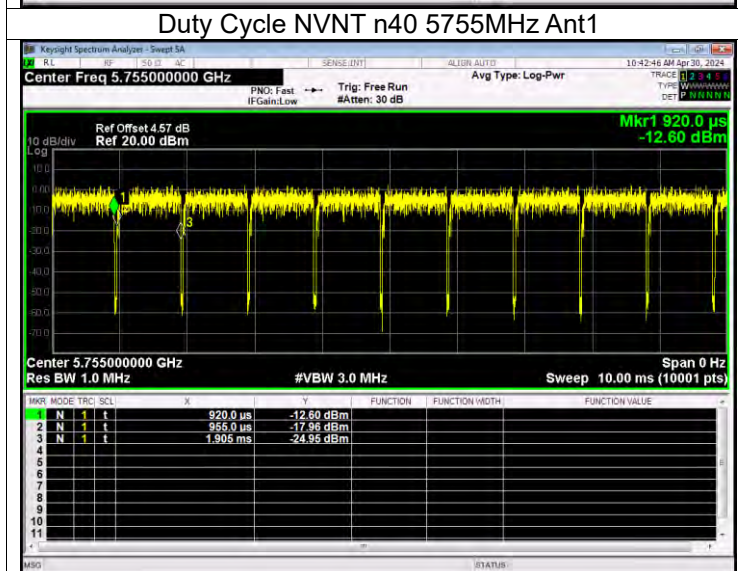
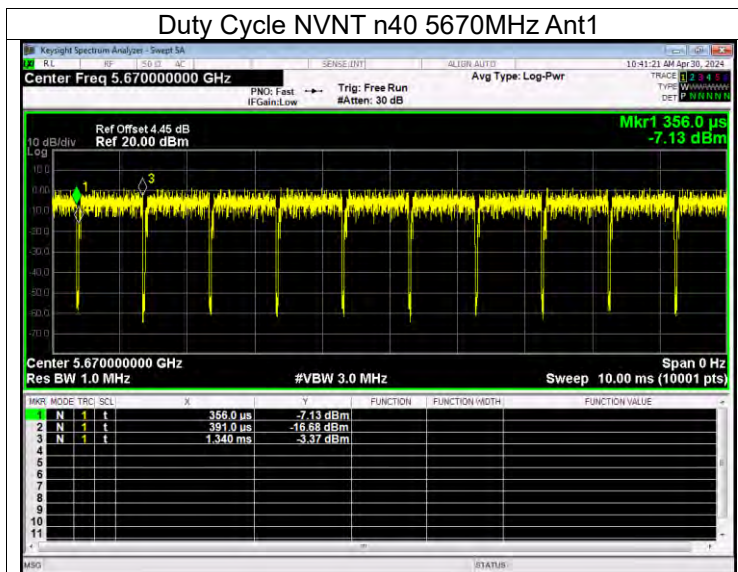


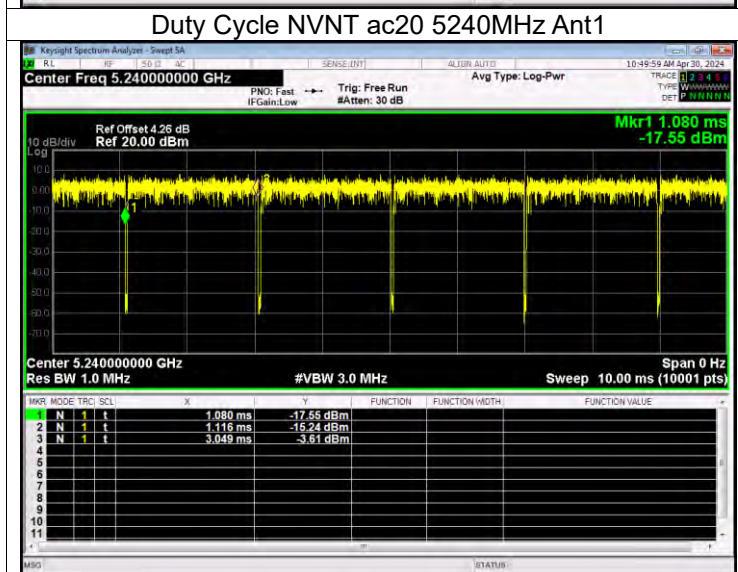
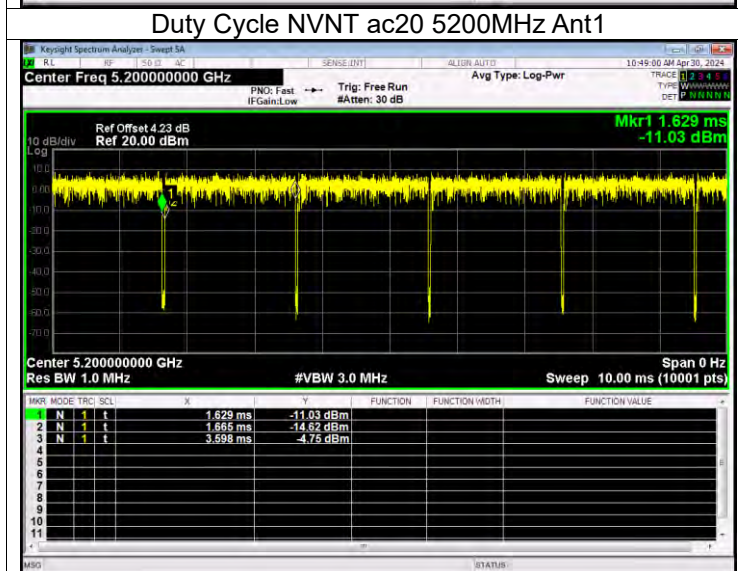
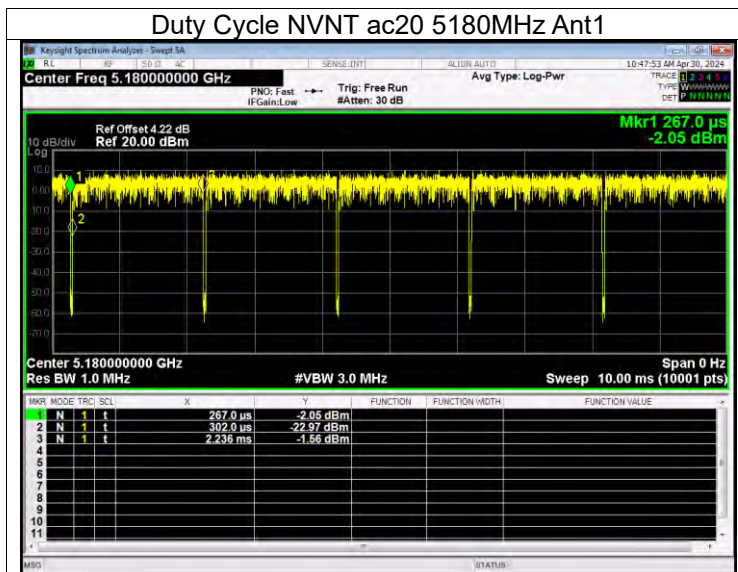


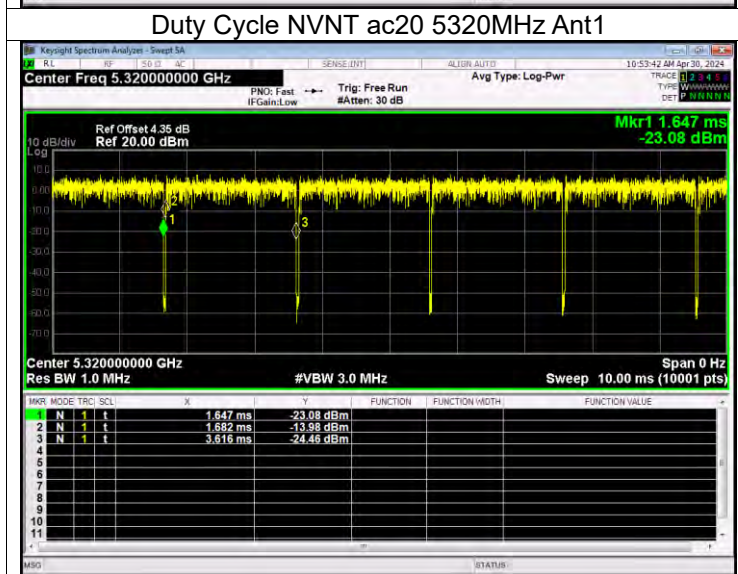
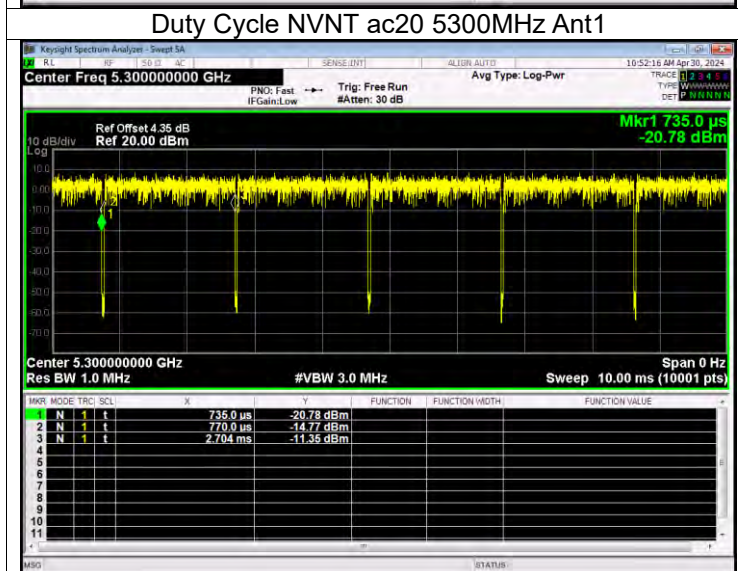
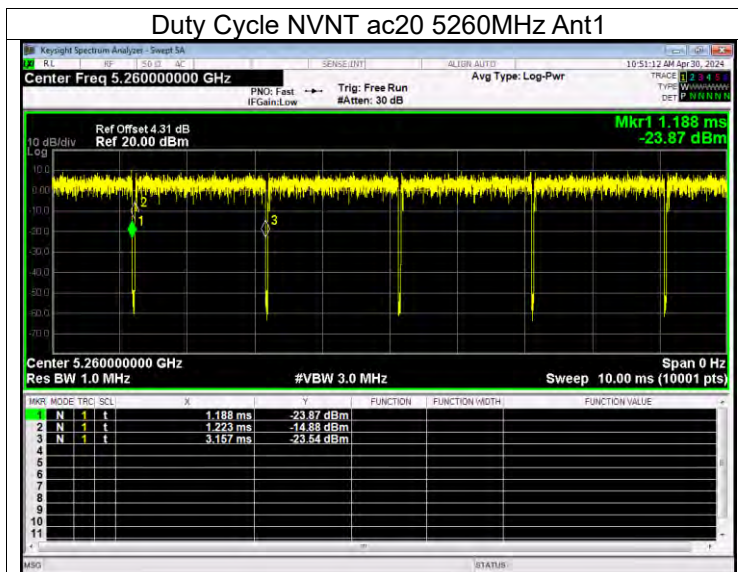


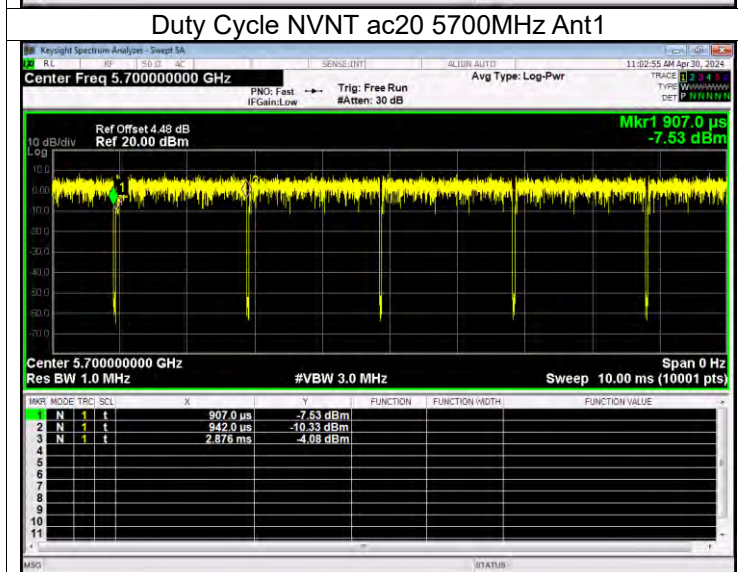
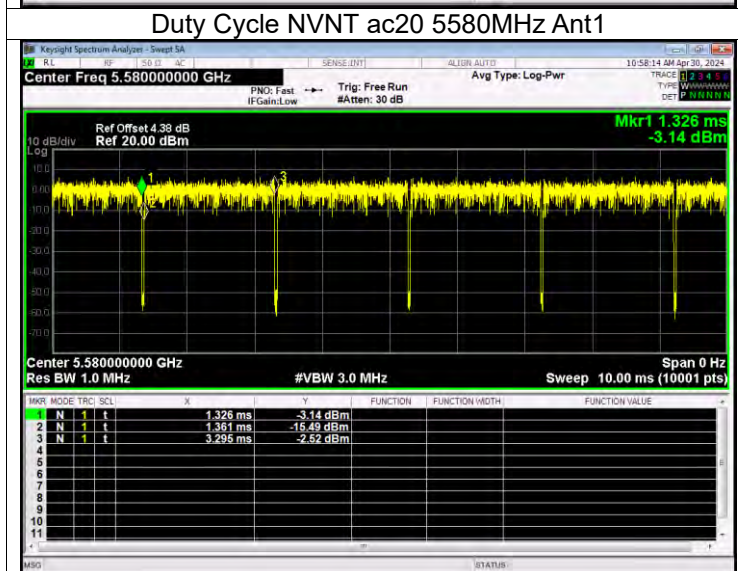
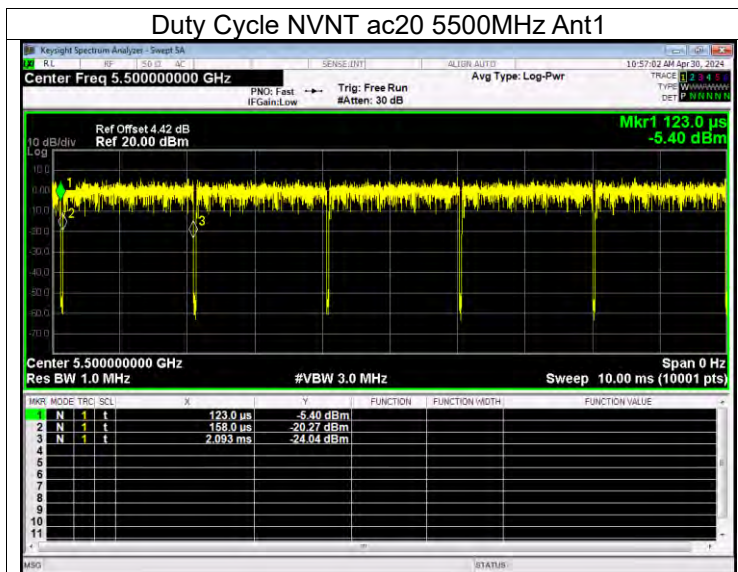


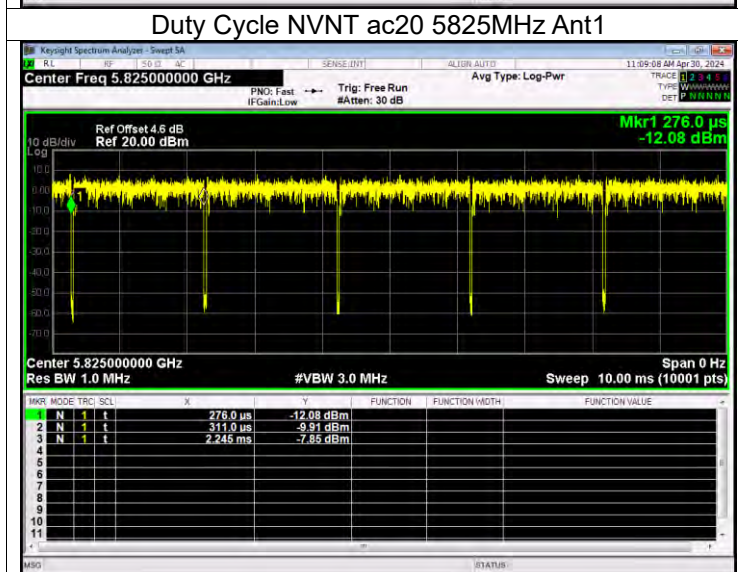
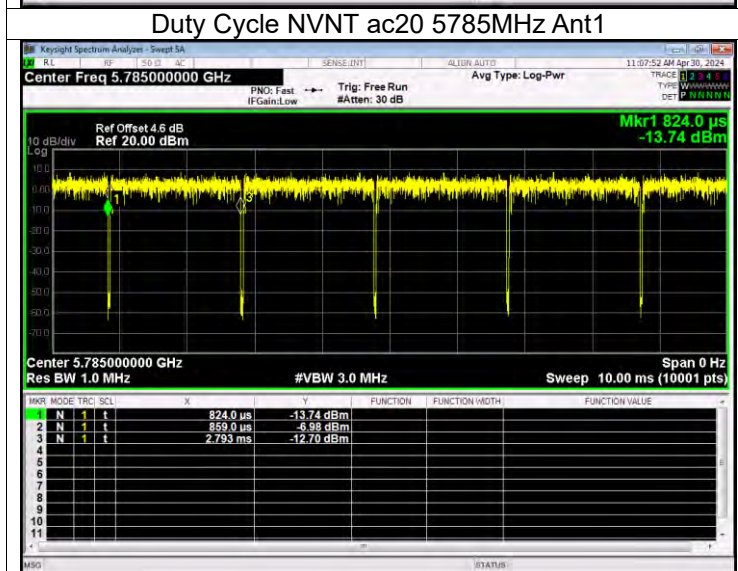
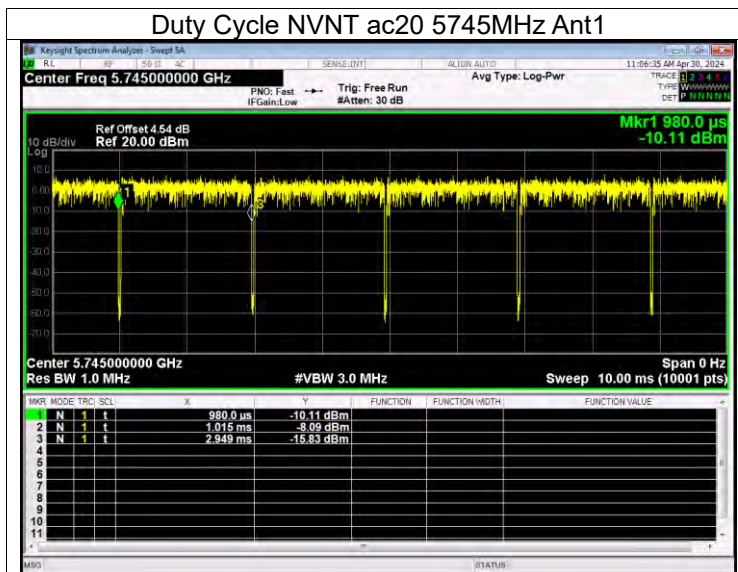


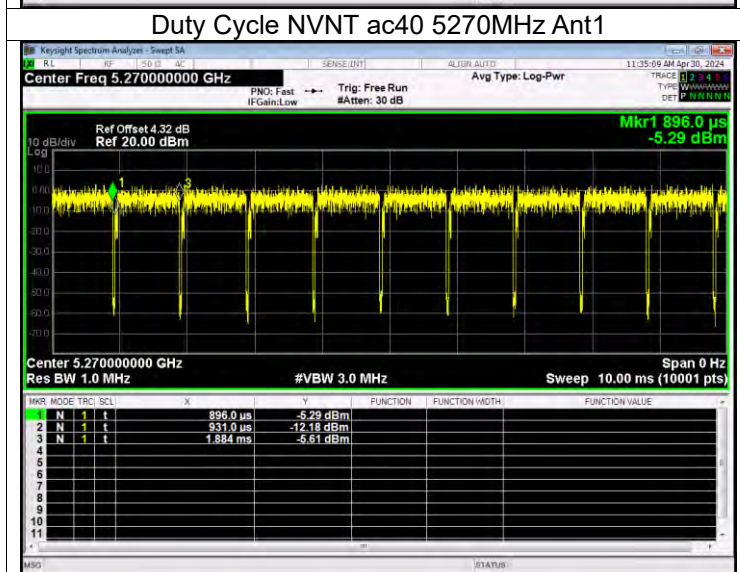
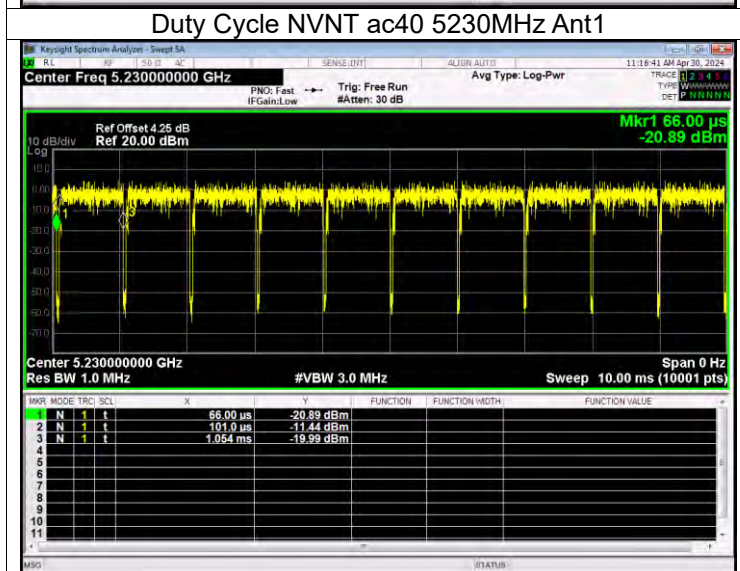
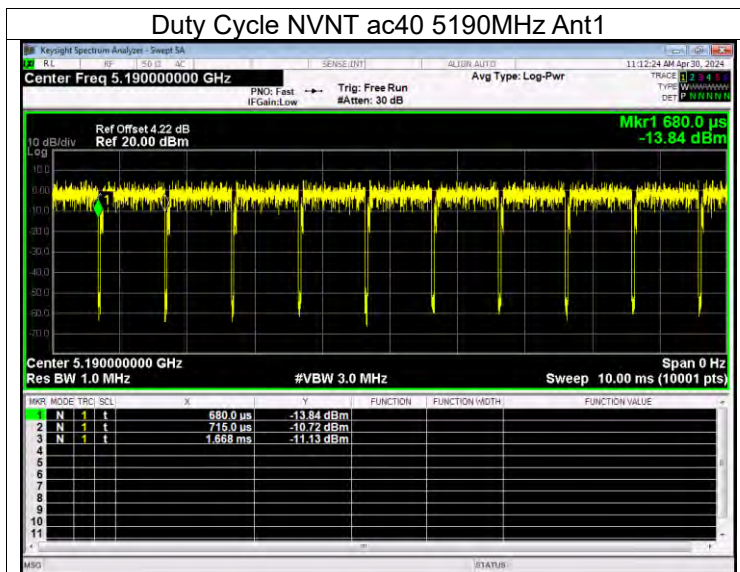


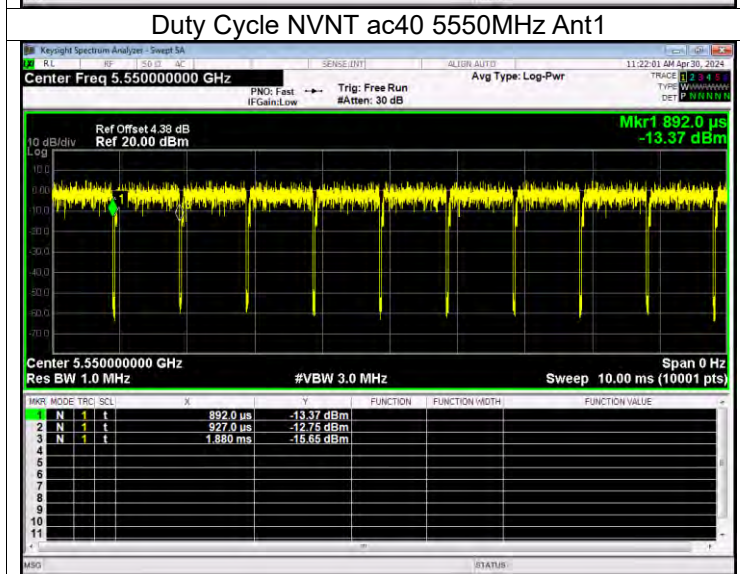
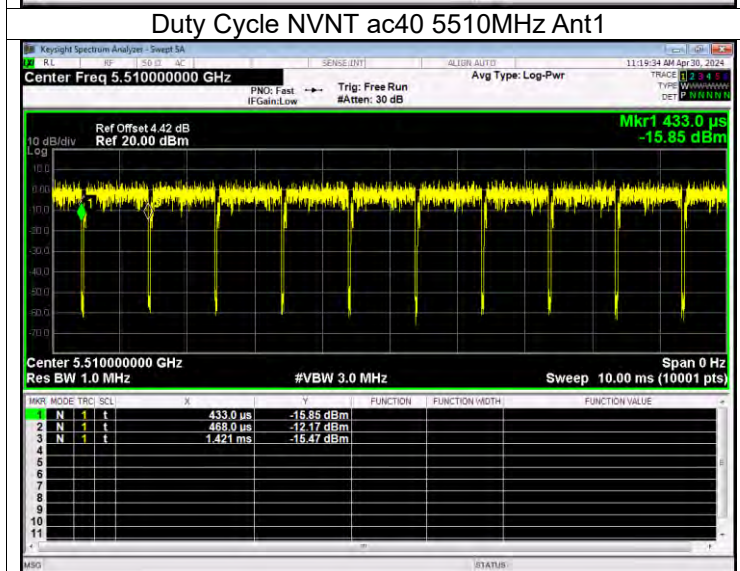
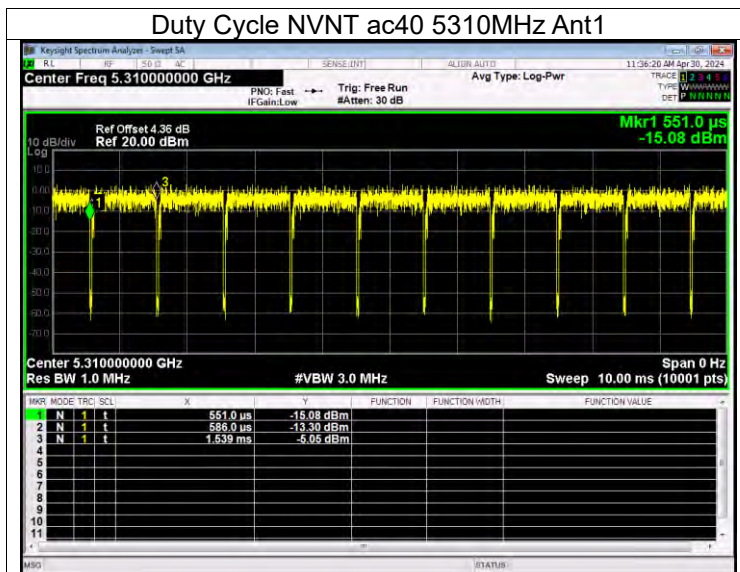


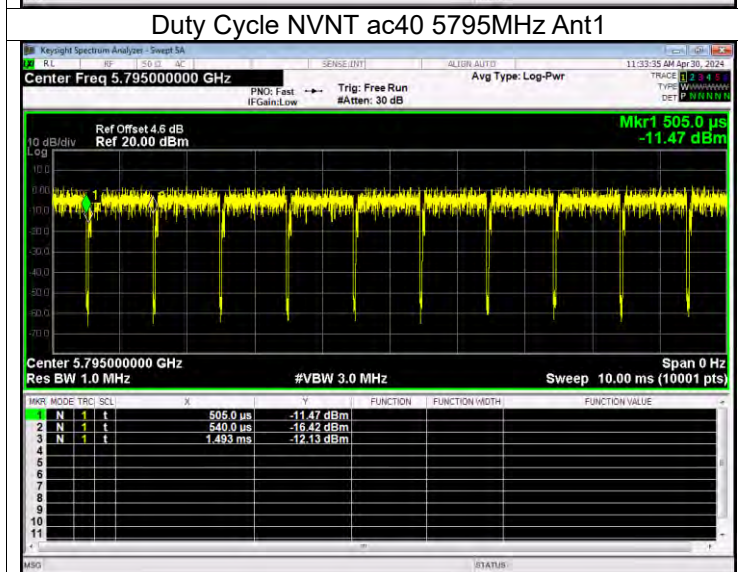
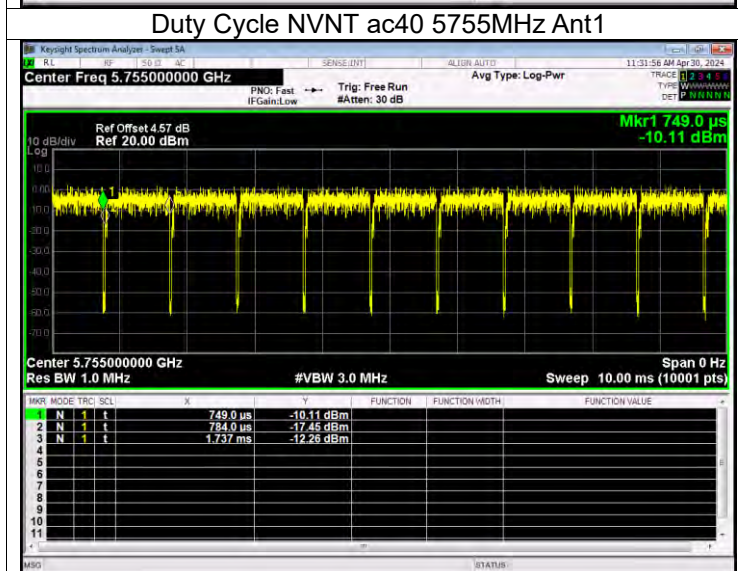
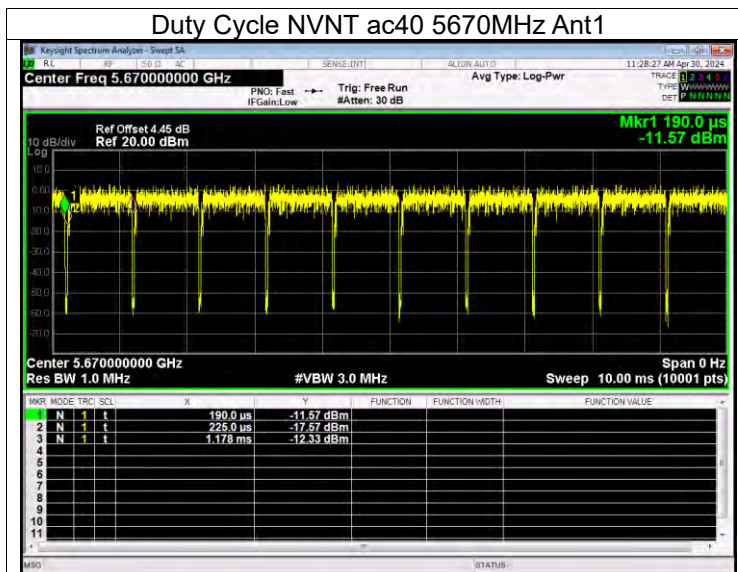


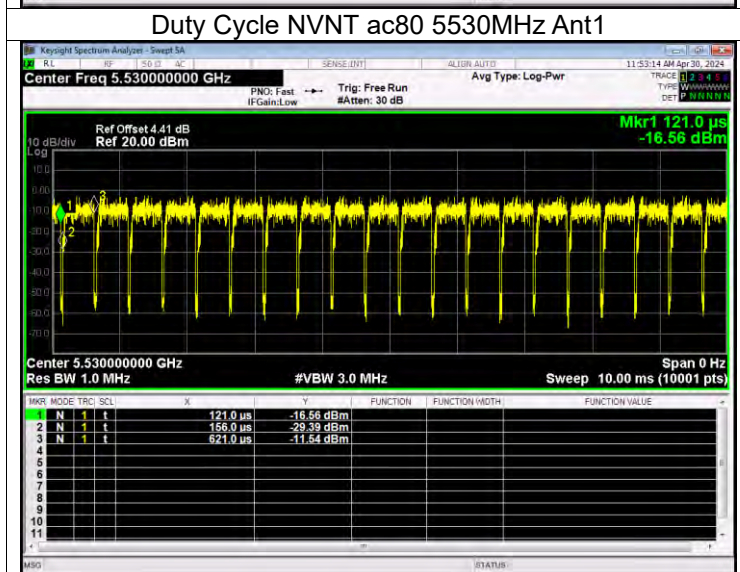
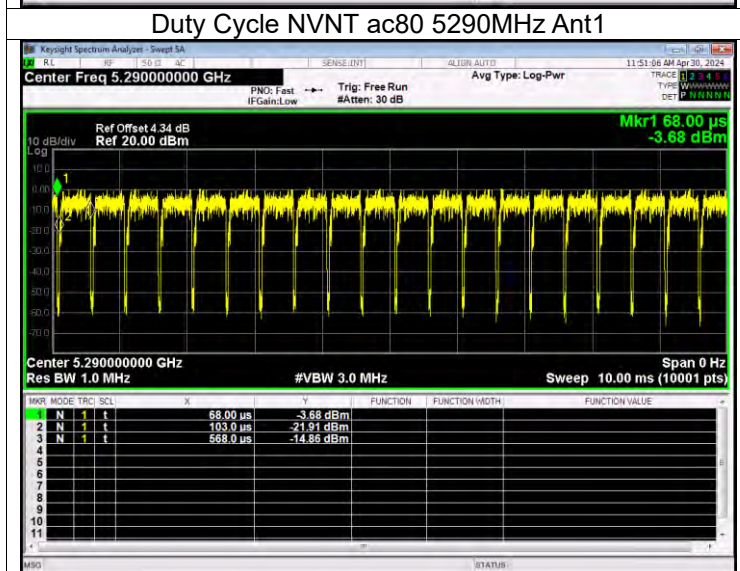
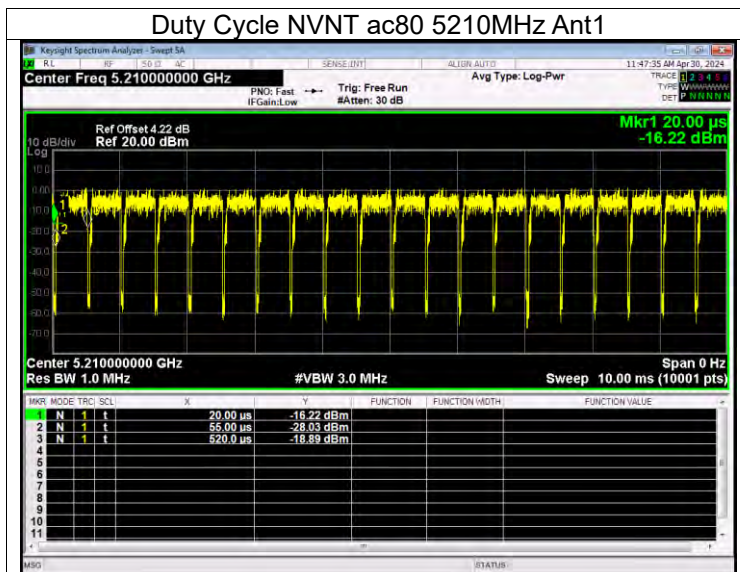


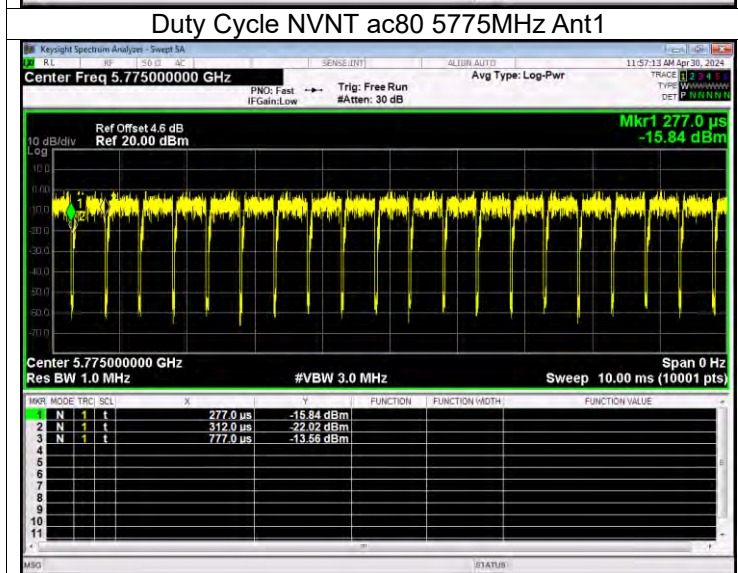
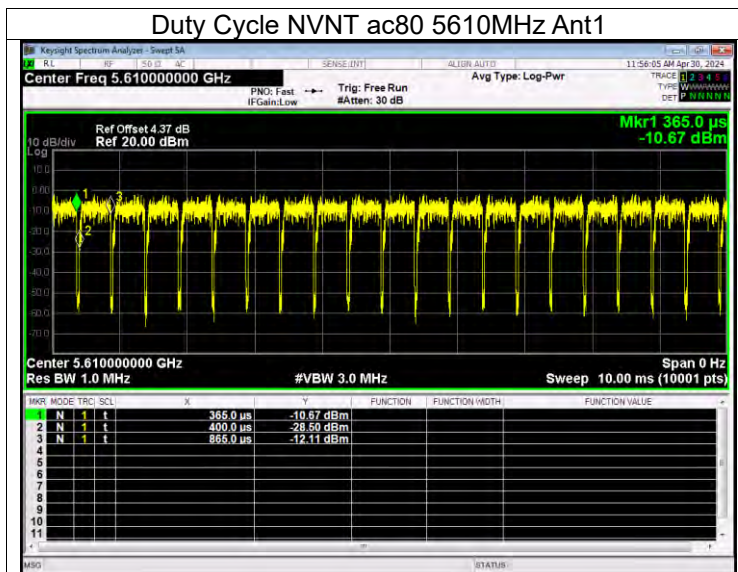














Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	15.57	0	15.57	24	Pass
NVNT	a	5200	Ant1	15.42	0	15.42	24	Pass
NVNT	a	5240	Ant1	14.82	0	14.82	24	Pass
NVNT	a	5260	Ant1	15.04	0	15.04	24	Pass
NVNT	a	5300	Ant1	16.52	0	16.52	24	Pass
NVNT	a	5320	Ant1	15.76	0	15.76	24	Pass
NVNT	a	5500	Ant1	12.21	0	12.21	24	Pass
NVNT	a	5580	Ant1	12.82	0	12.82	24	Pass
NVNT	a	5700	Ant1	12.83	0	12.83	24	Pass
NVNT	a	5745	Ant1	13.19	0	13.19	30	Pass
NVNT	a	5785	Ant1	12.44	0	12.44	30	Pass
NVNT	a	5825	Ant1	12.41	0	12.41	30	Pass
NVNT	n20	5180	Ant1	14.59	0	14.59	24	Pass
NVNT	n20	5200	Ant1	13.47	0	13.47	24	Pass
NVNT	n20	5240	Ant1	12.88	0	12.88	24	Pass
NVNT	n20	5260	Ant1	14	0	14	24	Pass
NVNT	n20	5300	Ant1	13.84	0	13.84	24	Pass
NVNT	n20	5320	Ant1	12.37	0	12.37	24	Pass
NVNT	n20	5500	Ant1	9.01	0	9.01	24	Pass
NVNT	n20	5580	Ant1	9.26	0	9.26	24	Pass
NVNT	n20	5700	Ant1	9.77	0	9.77	24	Pass
NVNT	n20	5745	Ant1	10.08	0	10.08	30	Pass
NVNT	n20	5785	Ant1	11.12	0	11.12	30	Pass
NVNT	n20	5825	Ant1	11.05	0	11.05	30	Pass
NVNT	n40	5190	Ant1	15.22	0.15	15.37	24	Pass
NVNT	n40	5230	Ant1	13.98	0.15	14.13	24	Pass
NVNT	n40	5270	Ant1	13.63	0.16	13.79	24	Pass
NVNT	n40	5310	Ant1	13.62	0.16	13.78	24	Pass
NVNT	n40	5510	Ant1	10.16	0.16	10.32	24	Pass
NVNT	n40	5550	Ant1	9.38	0.16	9.54	24	Pass
NVNT	n40	5670	Ant1	10.6	0.16	10.76	24	Pass
NVNT	n40	5755	Ant1	11.48	0.16	11.64	30	Pass
NVNT	n40	5795	Ant1	11.7	0.16	11.86	30	Pass
NVNT	ac20	5180	Ant1	13.6	0	13.6	24	Pass
NVNT	ac20	5200	Ant1	12.5	0	12.5	24	Pass
NVNT	ac20	5240	Ant1	11.87	0	11.87	24	Pass
NVNT	ac20	5260	Ant1	13.06	0	13.06	24	Pass
NVNT	ac20	5300	Ant1	11.92	0	11.92	24	Pass
NVNT	ac20	5320	Ant1	11.48	0	11.48	24	Pass
NVNT	ac20	5500	Ant1	9.88	0	9.88	24	Pass
NVNT	ac20	5580	Ant1	9.16	0	9.16	24	Pass
NVNT	ac20	5700	Ant1	10.5	0	10.5	24	Pass
NVNT	ac20	5745	Ant1	10.87	0	10.87	30	Pass
NVNT	ac20	5785	Ant1	11.66	0	11.66	30	Pass
NVNT	ac20	5825	Ant1	10.84	0	10.84	30	Pass
NVNT	ac40	5190	Ant1	14.42	0.16	14.58	24	Pass
NVNT	ac40	5230	Ant1	13.94	0.16	14.1	24	Pass
NVNT	ac40	5270	Ant1	12.6	0.16	12.76	24	Pass
NVNT	ac40	5310	Ant1	12.62	0.16	12.78	24	Pass
NVNT	ac40	5510	Ant1	9.98	0.16	10.14	24	Pass
NVNT	ac40	5550	Ant1	10.2	0.16	10.36	24	Pass
NVNT	ac40	5670	Ant1	12.26	0.16	12.42	24	Pass
NVNT	ac40	5755	Ant1	11.42	0.16	11.58	30	Pass
NVNT	ac40	5795	Ant1	11.57	0.16	11.73	30	Pass
NVNT	ac80	5210	Ant1	13.48	0.32	13.8	24	Pass
NVNT	ac80	5290	Ant1	12.94	0.32	13.26	24	Pass



NVNT	ac80	5530	Ant1	9.46	0.32	9.78	24	Pass
NVNT	ac80	5610	Ant1	10.31	0.32	10.63	24	Pass
NVNT	ac80	5775	Ant1	11.91	0.32	12.23	30	Pass



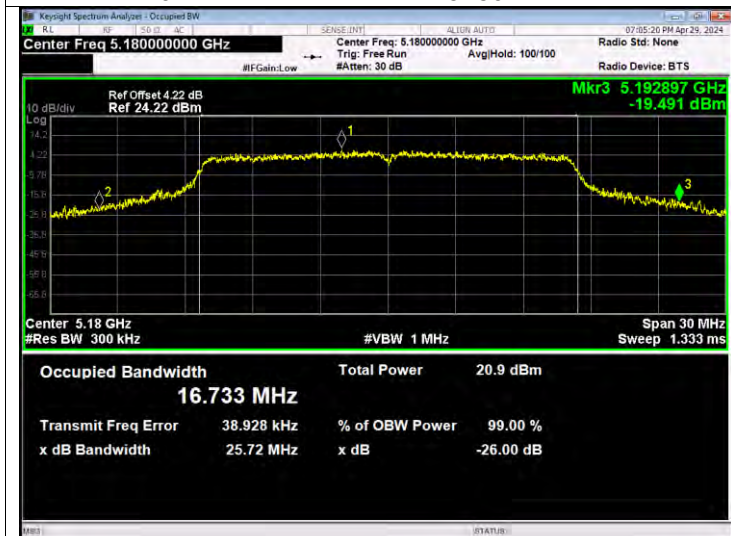
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	25.716	Pass
NVNT	a	5200	Ant1	24.587	Pass
NVNT	a	5240	Ant1	25.745	Pass
NVNT	a	5260	Ant1	24.729	Pass
NVNT	a	5300	Ant1	27.05	Pass
NVNT	a	5320	Ant1	24.705	Pass
NVNT	a	5500	Ant1	23.707	Pass
NVNT	a	5580	Ant1	29.382	Pass
NVNT	a	5700	Ant1	29.388	Pass
NVNT	n20	5180	Ant1	27.373	Pass
NVNT	n20	5200	Ant1	23.971	Pass
NVNT	n20	5240	Ant1	24.457	Pass
NVNT	n20	5260	Ant1	25.87	Pass
NVNT	n20	5300	Ant1	26.2	Pass
NVNT	n20	5320	Ant1	24.666	Pass
NVNT	n20	5500	Ant1	23.98	Pass
NVNT	n20	5580	Ant1	28.759	Pass
NVNT	n20	5700	Ant1	29.919	Pass
NVNT	n40	5190	Ant1	51.164	Pass
NVNT	n40	5230	Ant1	41.315	Pass
NVNT	n40	5270	Ant1	41.375	Pass
NVNT	n40	5310	Ant1	48.672	Pass
NVNT	n40	5510	Ant1	41.281	Pass
NVNT	n40	5550	Ant1	46.338	Pass
NVNT	n40	5670	Ant1	59.28	Pass
NVNT	ac20	5180	Ant1	24.376	Pass
NVNT	ac20	5200	Ant1	24.299	Pass
NVNT	ac20	5240	Ant1	24.233	Pass
NVNT	ac20	5260	Ant1	23.859	Pass
NVNT	ac20	5300	Ant1	23.411	Pass
NVNT	ac20	5320	Ant1	23.714	Pass
NVNT	ac20	5500	Ant1	24.108	Pass
NVNT	ac20	5580	Ant1	28.278	Pass
NVNT	ac20	5700	Ant1	29.773	Pass
NVNT	ac40	5190	Ant1	45.139	Pass
NVNT	ac40	5230	Ant1	41.527	Pass
NVNT	ac40	5270	Ant1	41.275	Pass
NVNT	ac40	5310	Ant1	41.417	Pass
NVNT	ac40	5510	Ant1	41.178	Pass
NVNT	ac40	5550	Ant1	51.708	Pass
NVNT	ac40	5670	Ant1	59.876	Pass
NVNT	ac80	5210	Ant1	104.64	Pass
NVNT	ac80	5290	Ant1	98.155	Pass
NVNT	ac80	5530	Ant1	98.48	Pass
NVNT	ac80	5610	Ant1	117.472	Pass

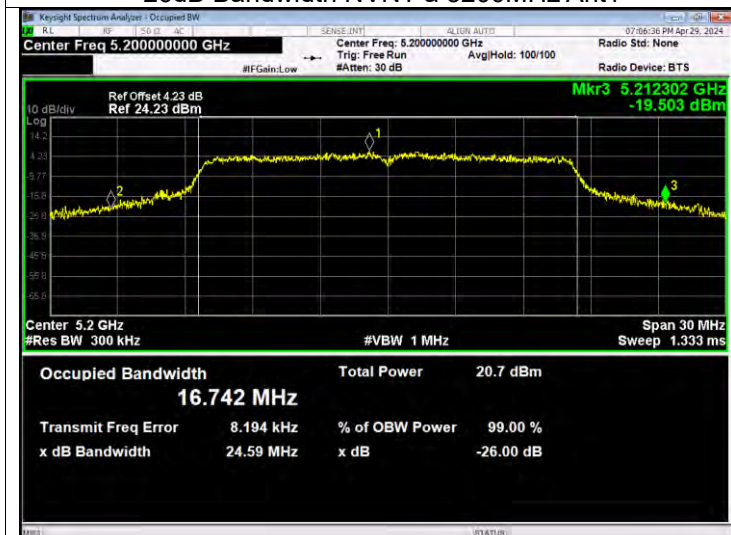


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1

