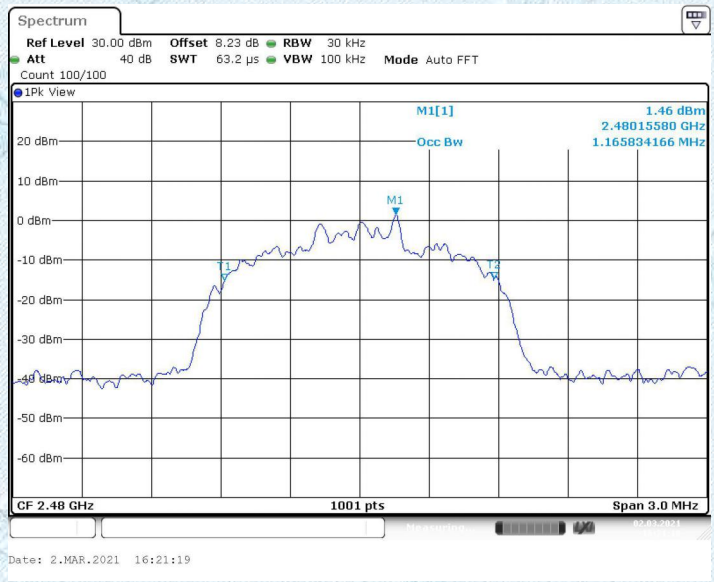
2480 MHz


Spectrum
Ref Level 30.00 dBm Offset 8.23 dB RBW 30 kHz
Att 40 dB SWT 63.2 µs VBW 100 kHz Mode Auto FFT
Count 100/100
1Pk View
M1[1] 1.46 dBm
2.48015580 GHz
Occ Bw 1.165834166 MHz
M1
T1
T2
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 2.48 GHz
1001 pts
Span 3.0 MHz
Date: 2.MAR.2021 16:21:19

3.4. Carrier Frequencies Separation

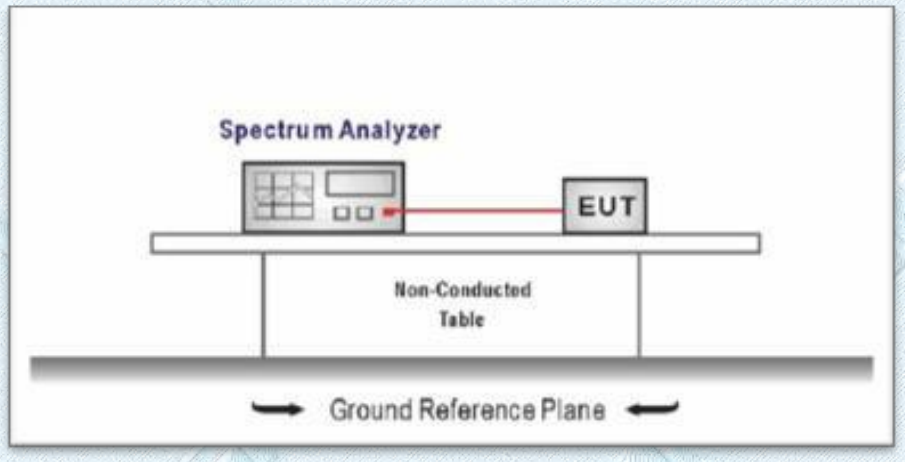
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

Test Item	Limit	Frequency Range(MHz)
Channel Separation	>25KHz or >two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5

Test Configuration



Test Procedure

1.Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2.Spectrum Setting:
(1) Set RBW = 100 kHz.
(2) Set the video bandwidth (VBW) ≥ 3 RBW.
(3) Detector = Peak.
(4) Trace mode = Max hold.
(5) Sweep = Auto couple.
NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.2.

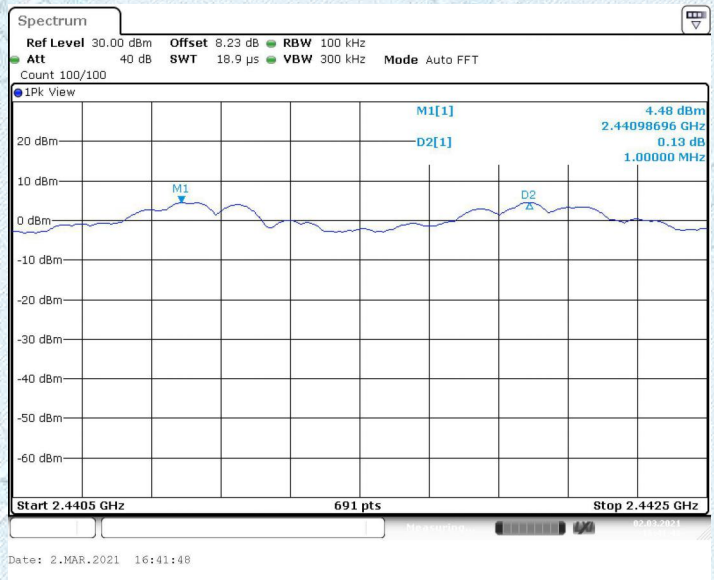
Test Results

Test Mode:	DH5 Hopping Mode		
Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	1.157	>=0.576	PASS

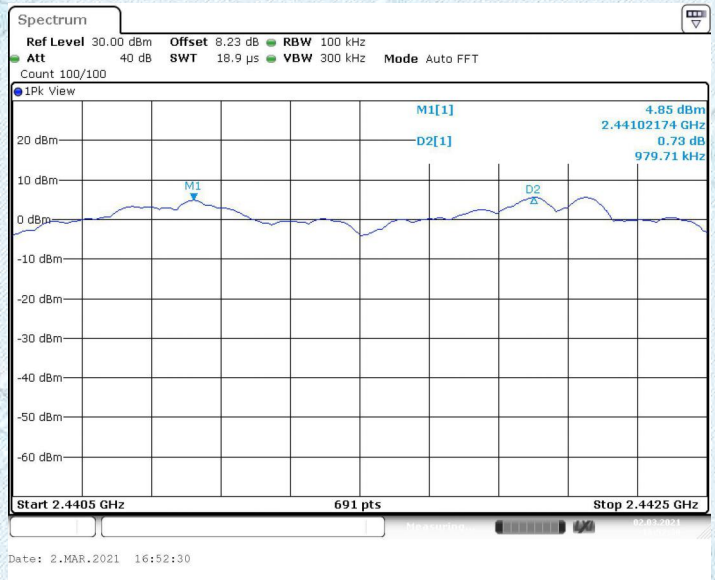
DH5 Hopping Mode

Test Mode:	2DH5 Hopping Mode		
Test Mode	Result[MHz]	Limit[MHz]	Verdict
2DH5	1	>=0.85	PASS

2DH5 Hopping Mode



Test Mode:	3DH5 Hopping Mode		
Test Mode	Result[MHz]	Limit[MHz]	Verdict
3DH5	0.98	>=0.852	PASS
3DH5 Hopping Mode			

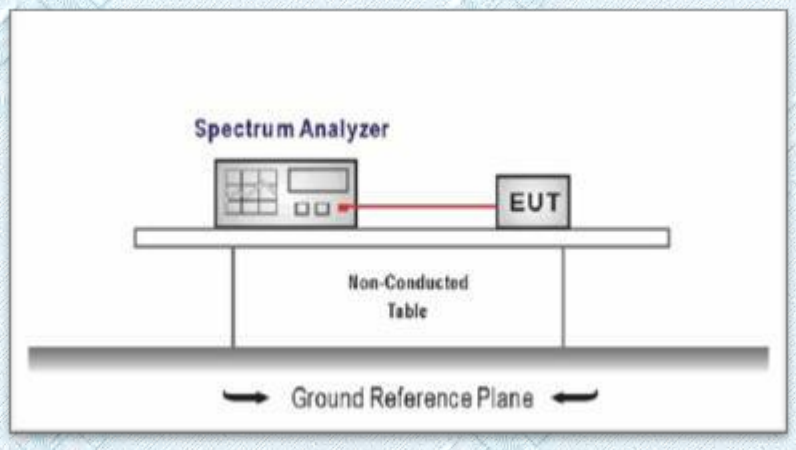


3.5. Number of Hopping Channel

Limit

Section	Test Item	Limit
15.247	Number of Hopping Channel	>15

Test Configuration



Test Procedure

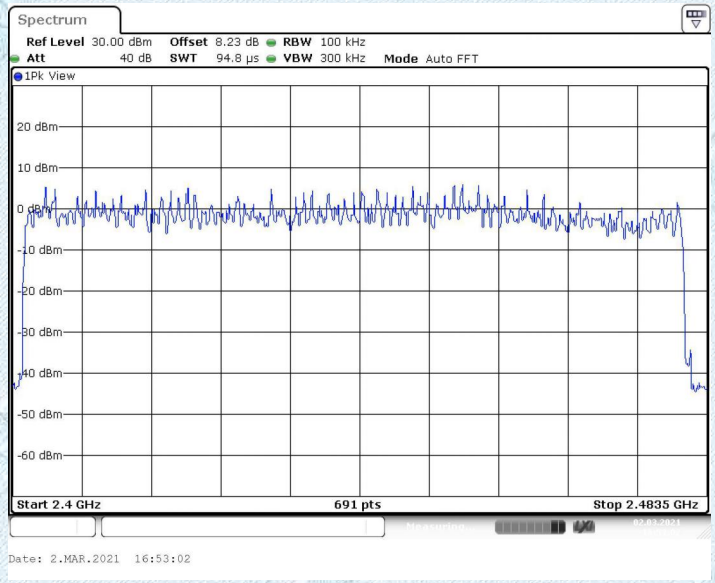
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
   (1) Peak Detector: RBW=100 kHz, VBW≥RBW, Sweep time= Auto.

Test Mode

Please refer to the clause 2.2.

Test Result

Test Mode:	3DH5 Hopping Mode		
Frequency Range	**Test Mode**	**Quantity of Hopping Channel**	**Limit**
2402MHz~2483.5MHz	3DH5	79	**>15**
3DH5 Mode			



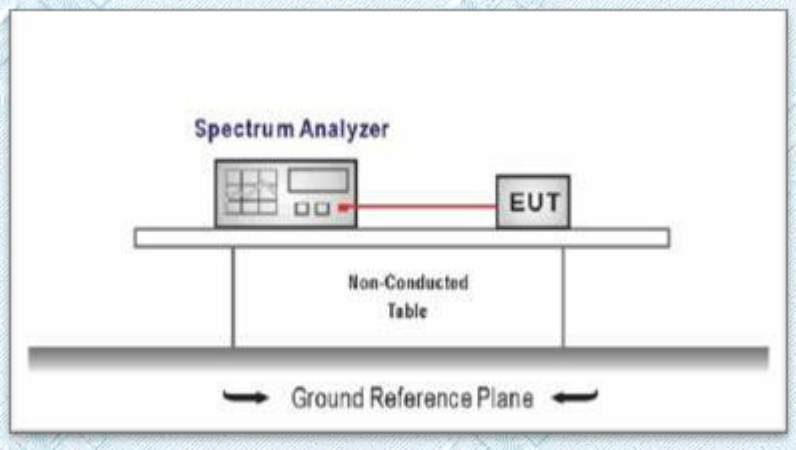
Note: The 8-DPSK（3DH5）modulation is the worst case and recorded in the report.

3.6. Dwell Time

Limit

Section	Test Item	Limit
15.247(a)(1)	Average Time of Occupancy	0.4 sec

Test Configuration



Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
   (1) Spectrum Setting: RBW=1MHz, VBW≥RBW.
   (2) Use video trigger with the trigger level set to enable triggering only on full pulses.
   (3) Sweep Time is more than once pulse time.
   (4) Set the center frequency on any frequency would be measure and set the frequency span to zero.
   (5) Measure the maximum time duration of one single pulse.
   (6) Set the EUT for packet transmitting.

Test Mode

Please refer to the clause 2.2

Test Result

Note:

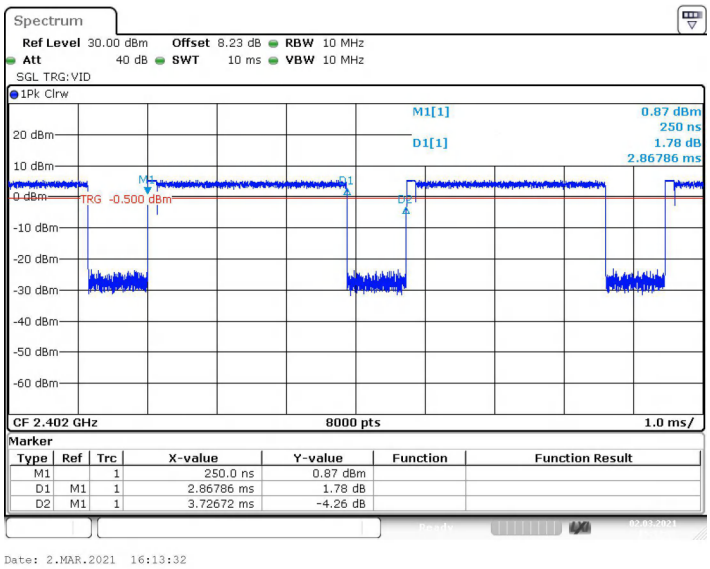
1.Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2DH1, 3DH1

Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second for DH3, 2DH3, 3DH3

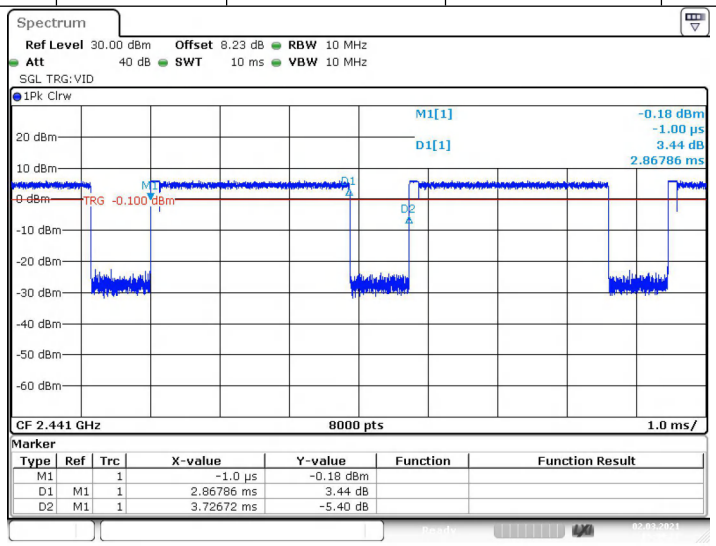
Dwell time=Pulse time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second for DH5, 2DH5, 3DH5

2.The 3DH5 modulation is the worst case and recorded in the report .

Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
3DH5	2402	2.87	306.13	31.6	**400**	**PASS**

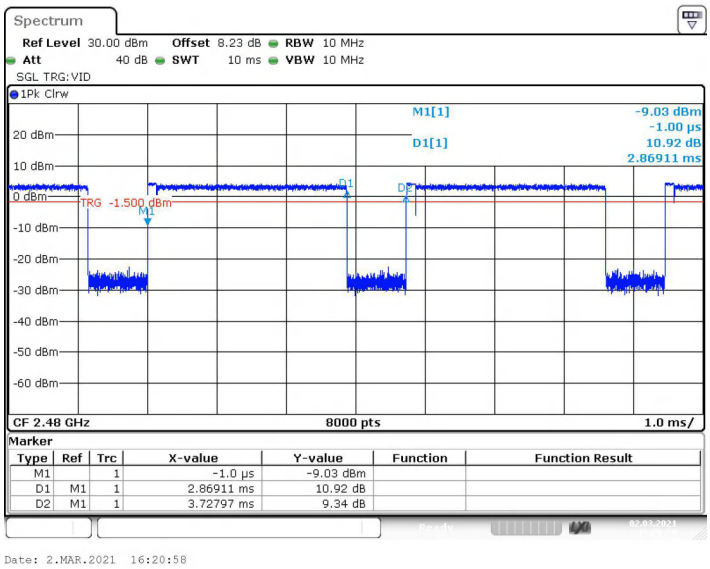


Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
3DH5	2441	2.87	306.13	31.6	**400**	**PASS**



Date: 2.MAR.2021 16:19:27

Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
3DH5	2480	2.87	306.13	31.6	**400**	**PASS**

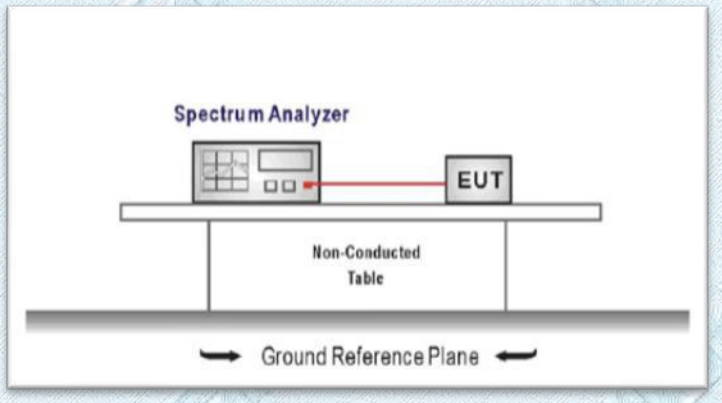


3.7. Band Edge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
   RBW=100KHz
   VBW=3*RBW.
   Detector function: Peak.
   Trace: Max hold.
   Sweep = Auto couple.

   Allow the trace to stabilize.

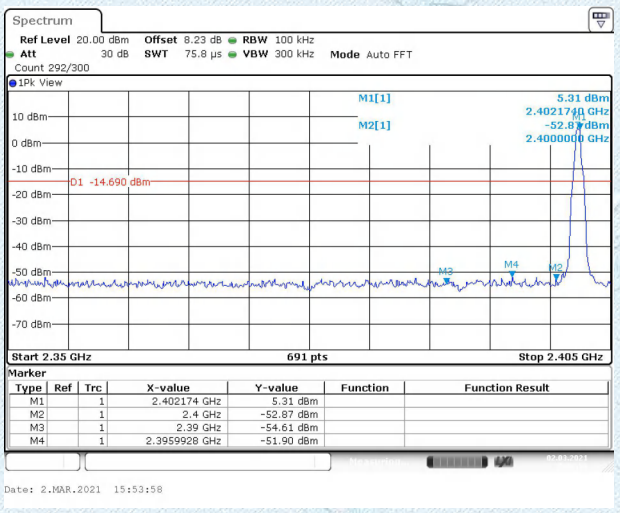
TEST MODE:

Please refer to the clause 2.2.

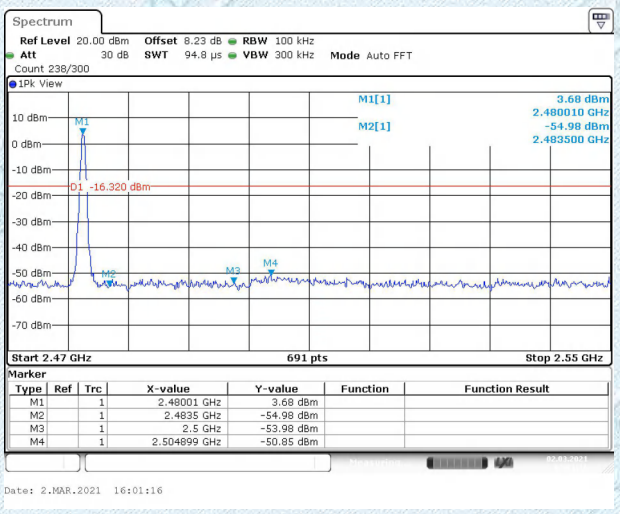
TEST RESULTS

DH5

CH00-Bandedge

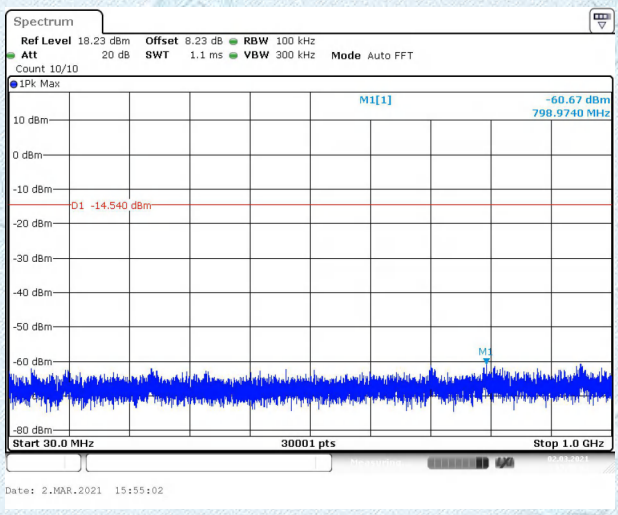


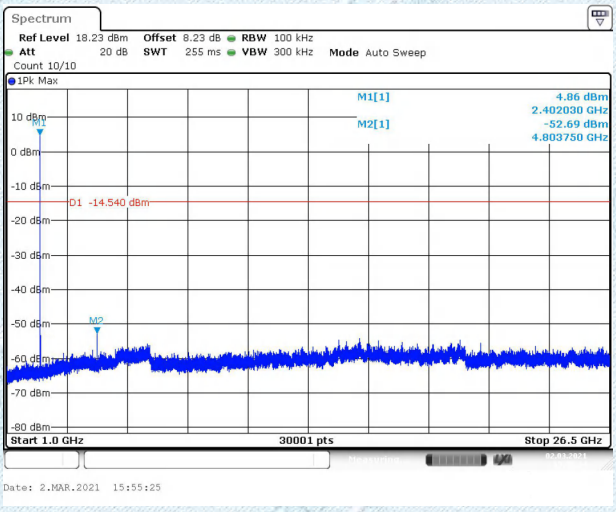
CH78-Bandedge



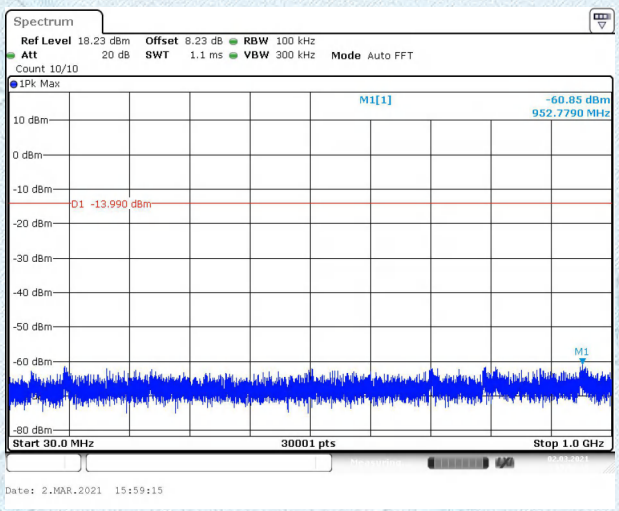
DH5

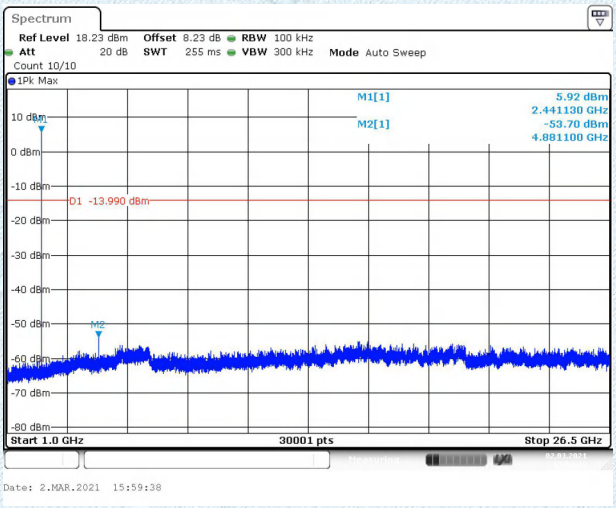
CH00-SE



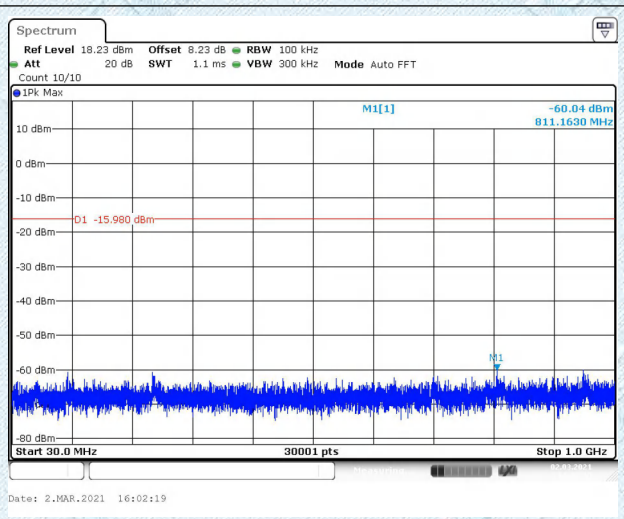


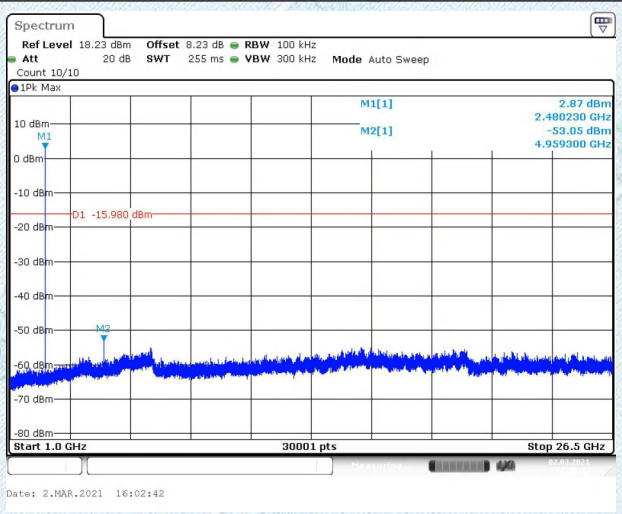
CH39-SE





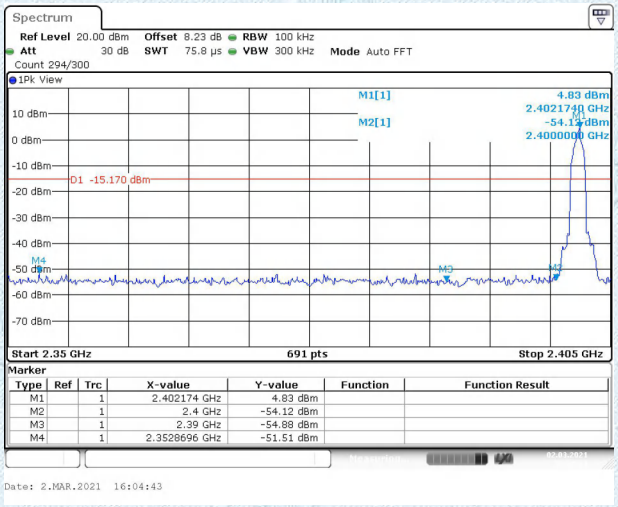
CH78-SE





2DH5

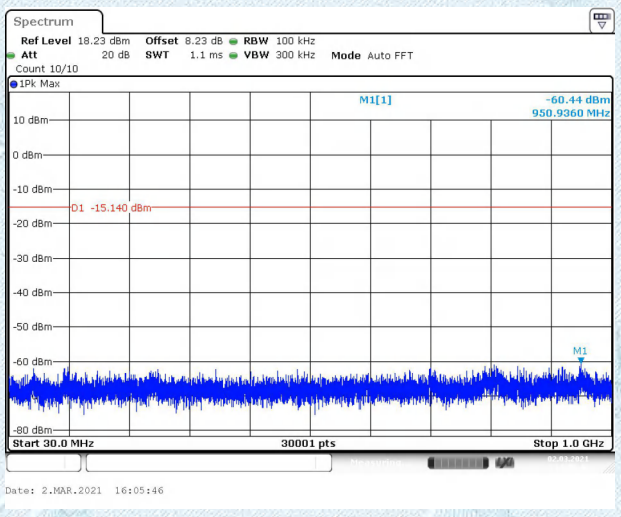
CH00-Bandedge

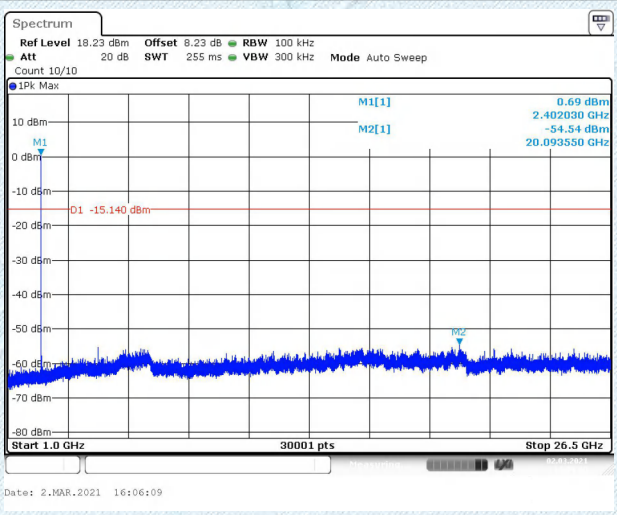


CH78-Bandedge

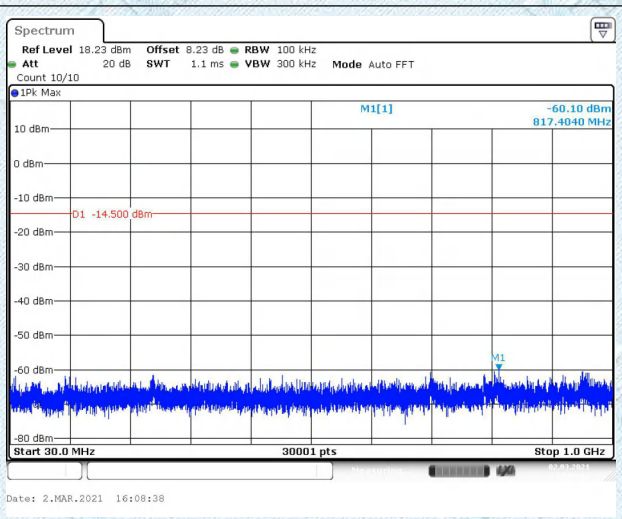
2DH5

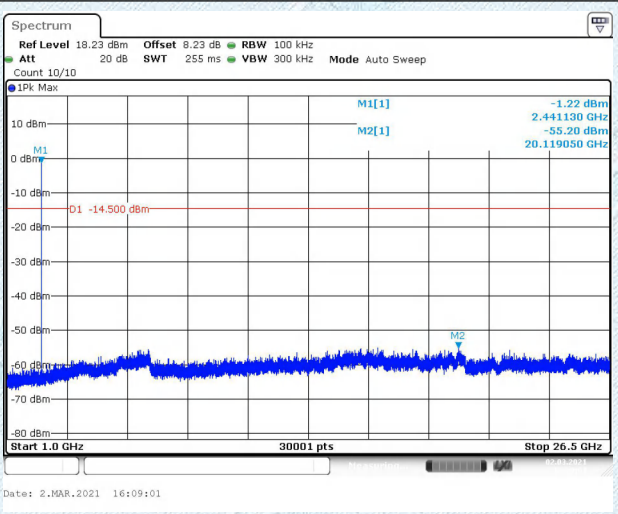
CH00-SE



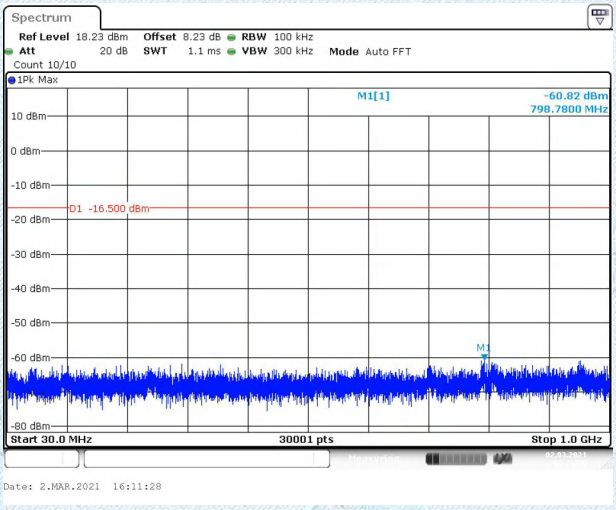


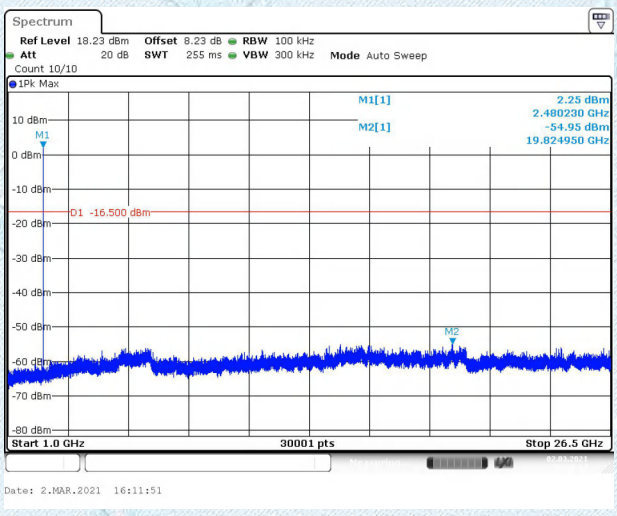
CH39-SE





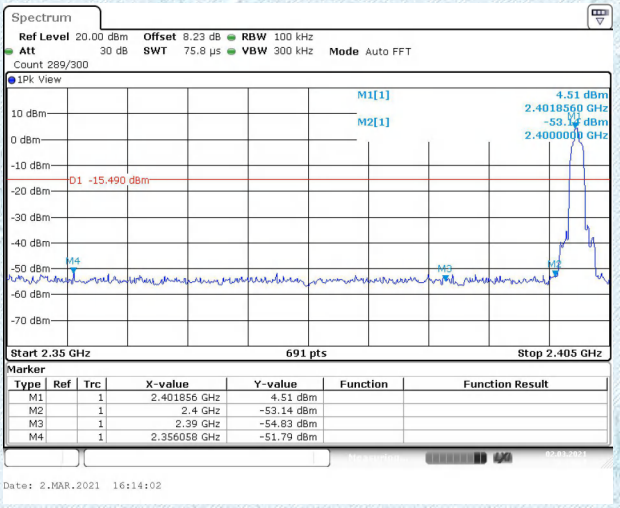
CH78-SE



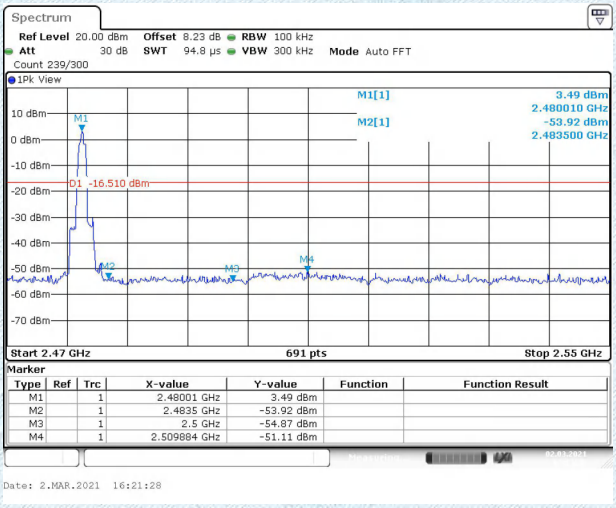


3DH5

CH00-Bandedge

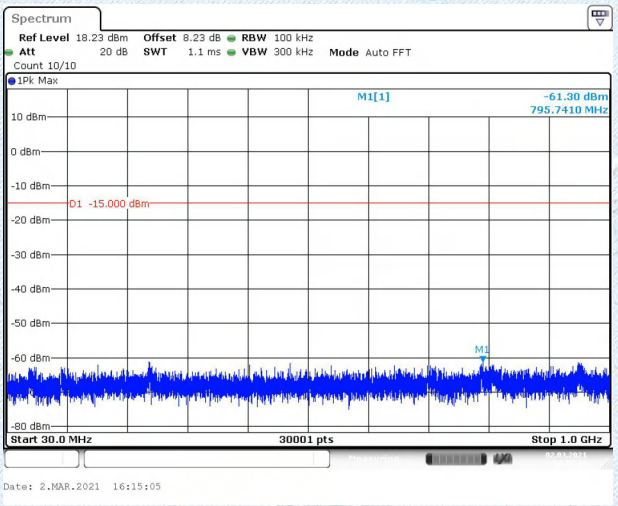


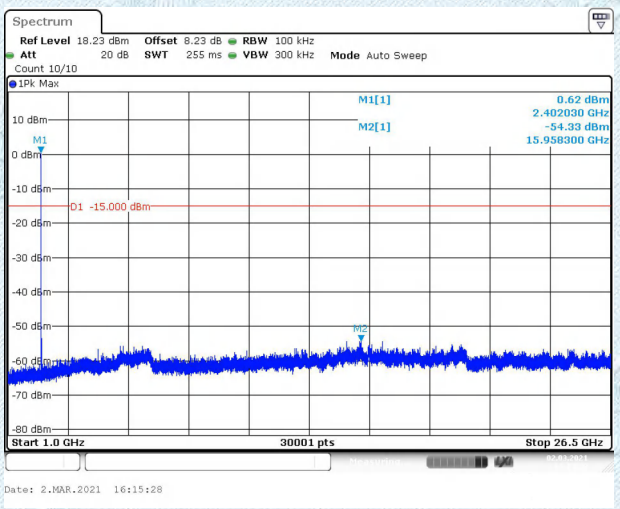
CH78-Bandedge



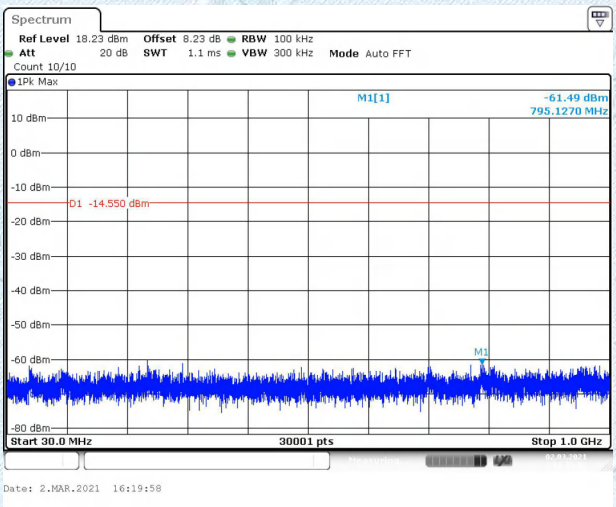
3DH5

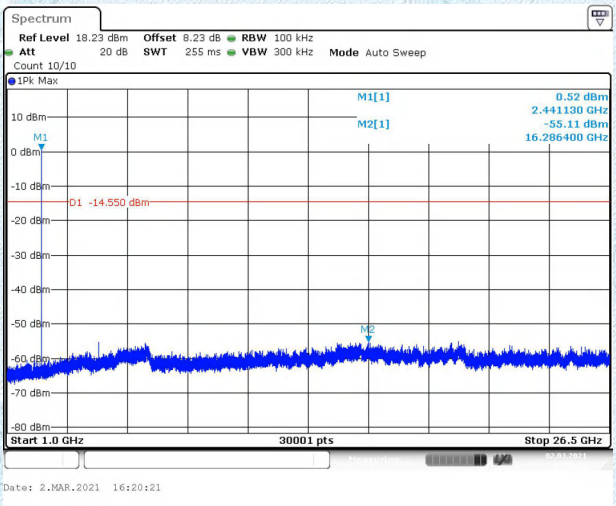
CH00-SE



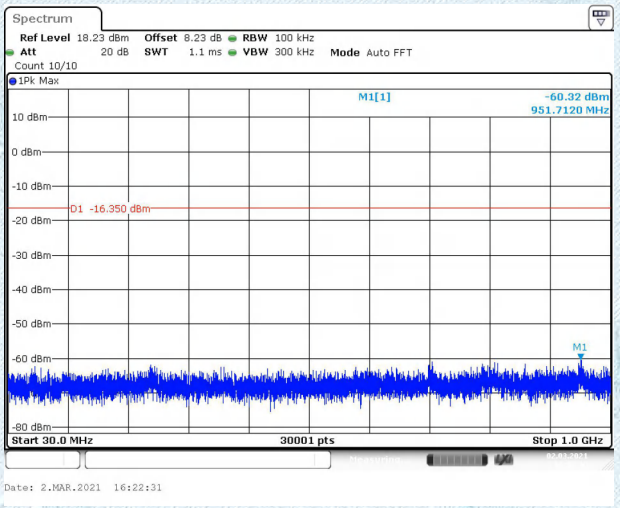


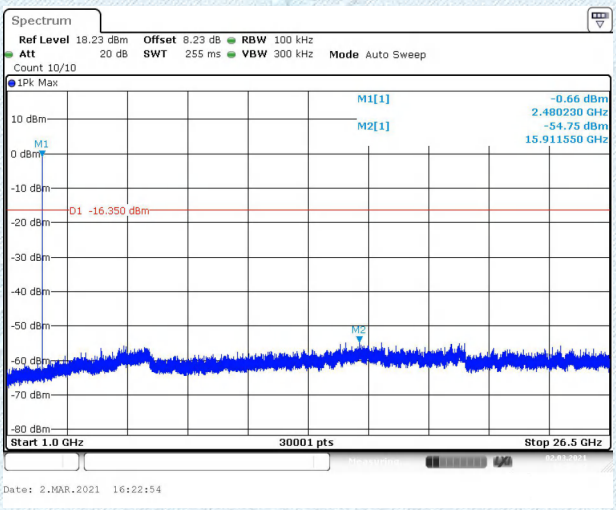
CH39-SE



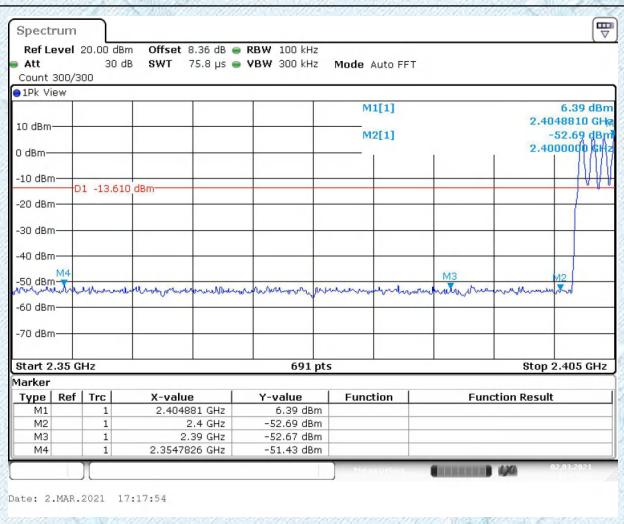


CH78-SE

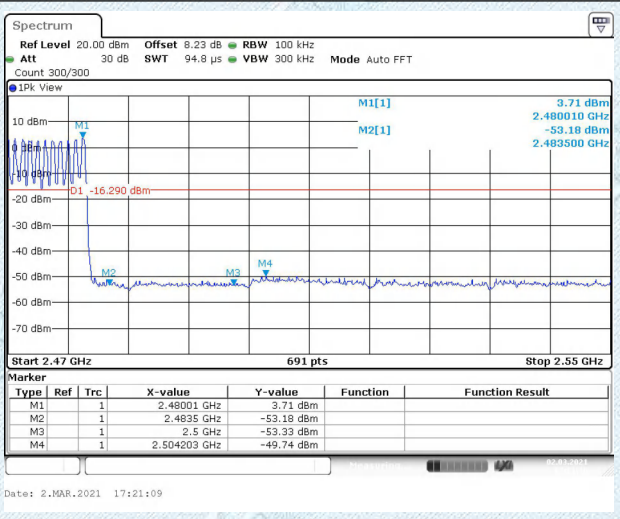




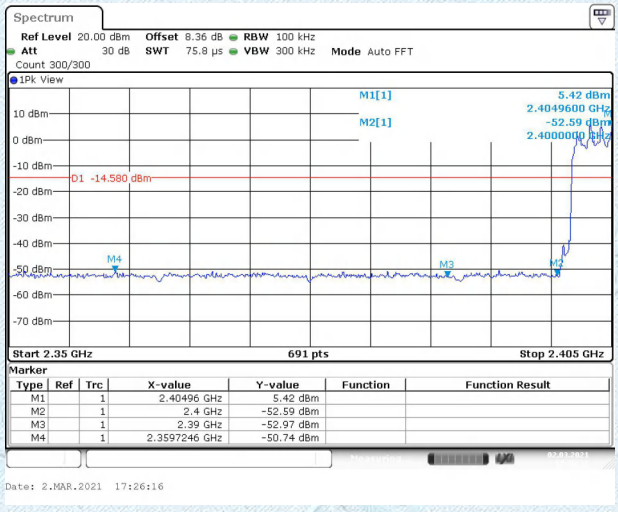
DH5(2402)-Hopping on	DH5(2480)-Hopping on



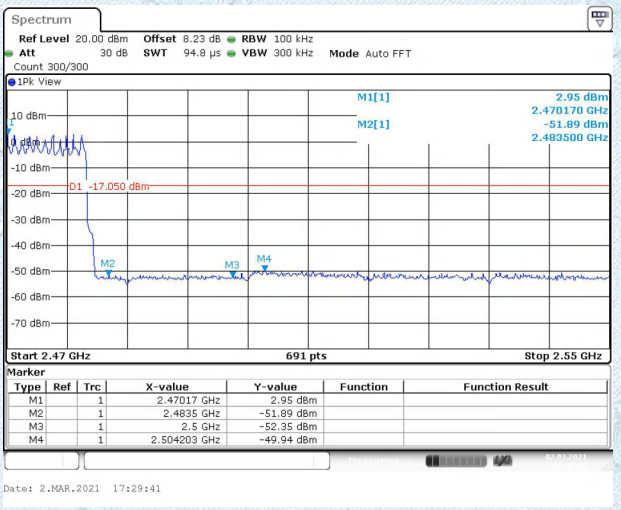
2DH5(2402)-Hopping on



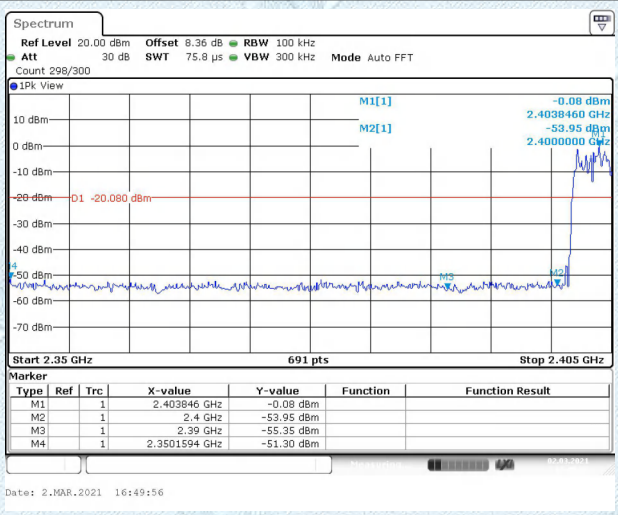
2DH5(2480)-Hopping on

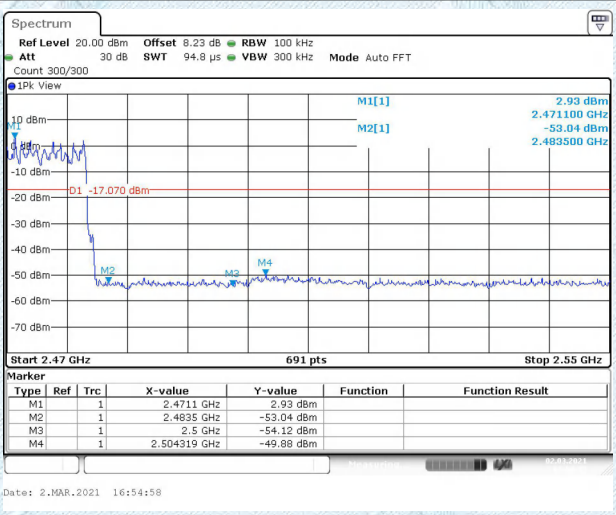


3DH5(2402)-Hopping on



3DH5(2480)-Hopping on



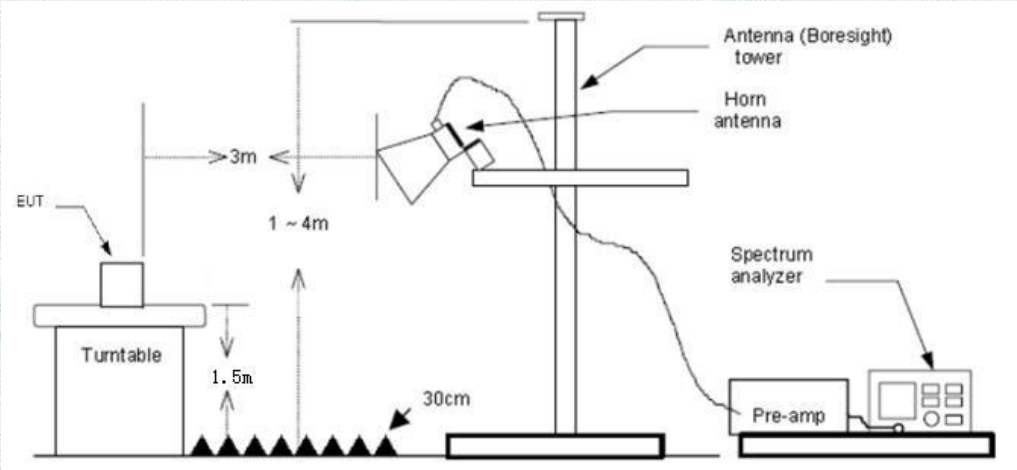


3.8. Band Edge Emissions(Radiated)

Limit

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54
Note: All restriction bands have been tested, only the worst case is reported.		

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
   RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
   RBW=1MHz, VBW=10Hz with PEAK Detector for Average Value.

Test Mode

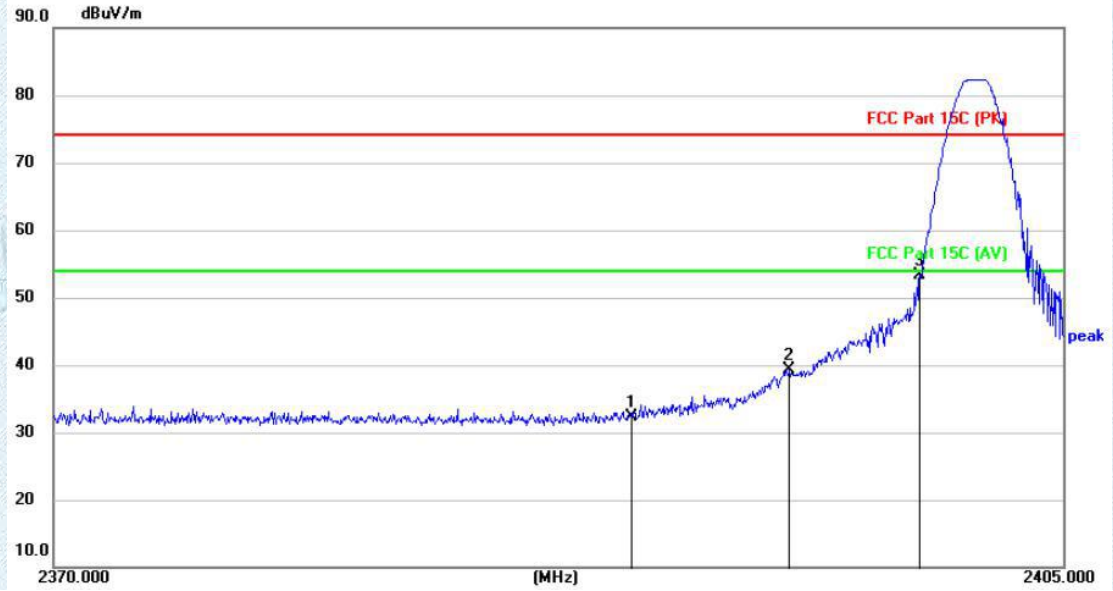
Please refer to the clause 2.2.

Test Results

Note:

1. Measurement = Reading level + Correct Factor
2. Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
3. Pre-scan DH5, 2DH5 and 3DH5 modulation, and found the DH5 modulation which it is worse case, so only show the test data for worse case.

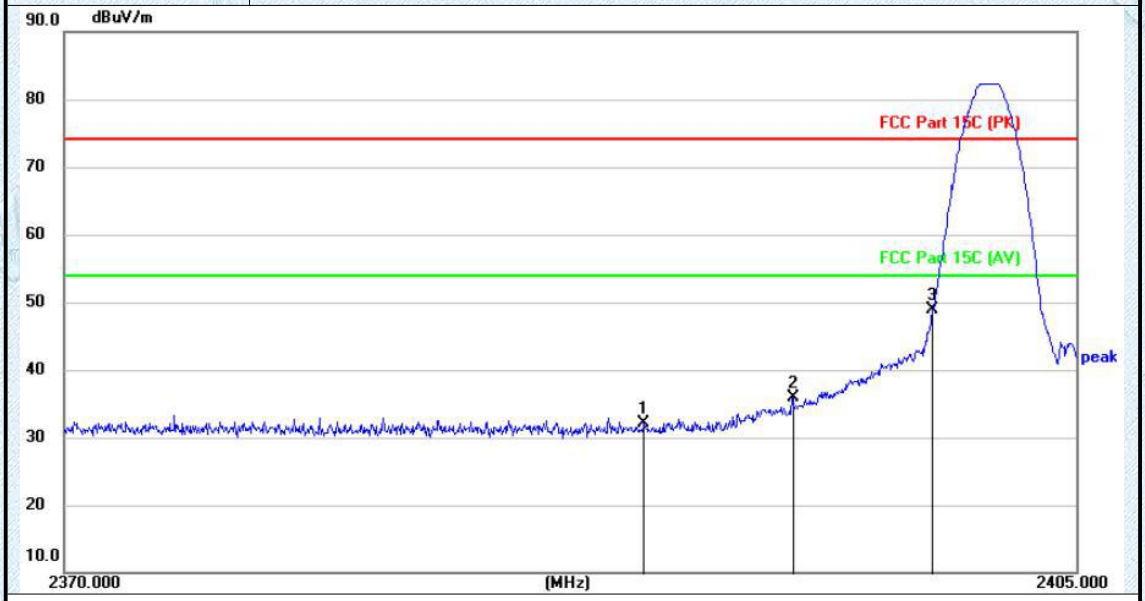
Test Voltage	3.7V
Ant. Pol.	Horizontal
Test Mode:	DH5 Mode 2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2390.000	43.13	-10.92	32.21	74.00	-41.79	peak
2		2395.487	50.13	-10.91	39.22	74.00	-34.78	peak
3	*	2400.000	64.24	-10.92	53.32	74.00	-20.68	peak

Measurement = Reading level + Correct Factor

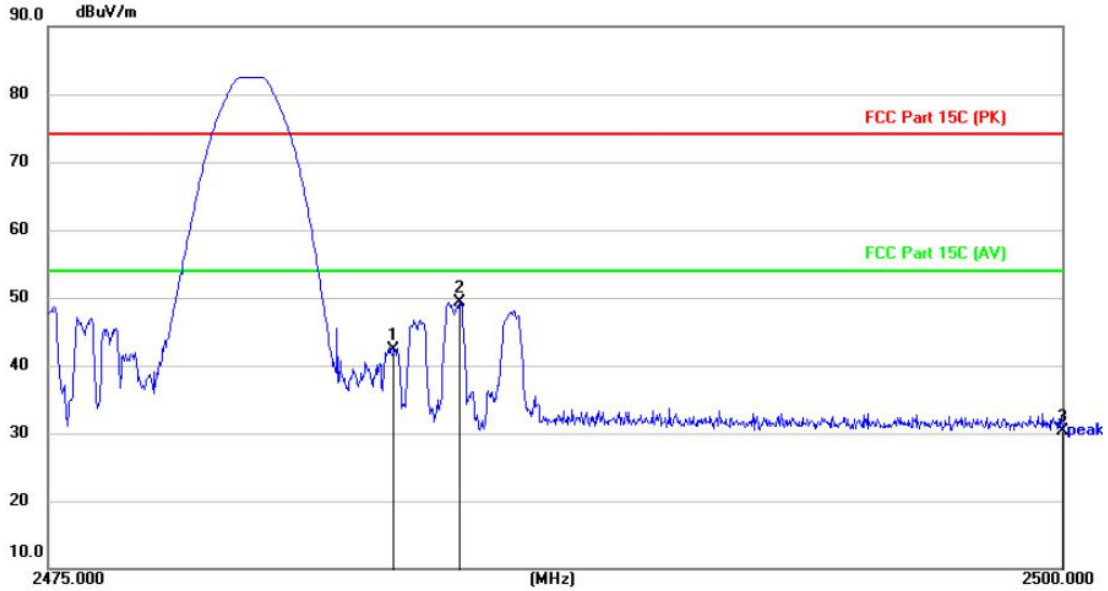
Test Voltage	3.7V
Ant. Pol.	Vertical
Test Mode:	DH5 Mode 2402 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2390.000	42.94	-10.92	32.02	74.00	-41.98	peak
2		2395.175	46.84	-10.91	35.93	74.00	-38.07	peak
3	*	2400.000	59.83	-10.92	48.91	74.00	-25.09	peak

Measurement = Reading level + Correct Factor

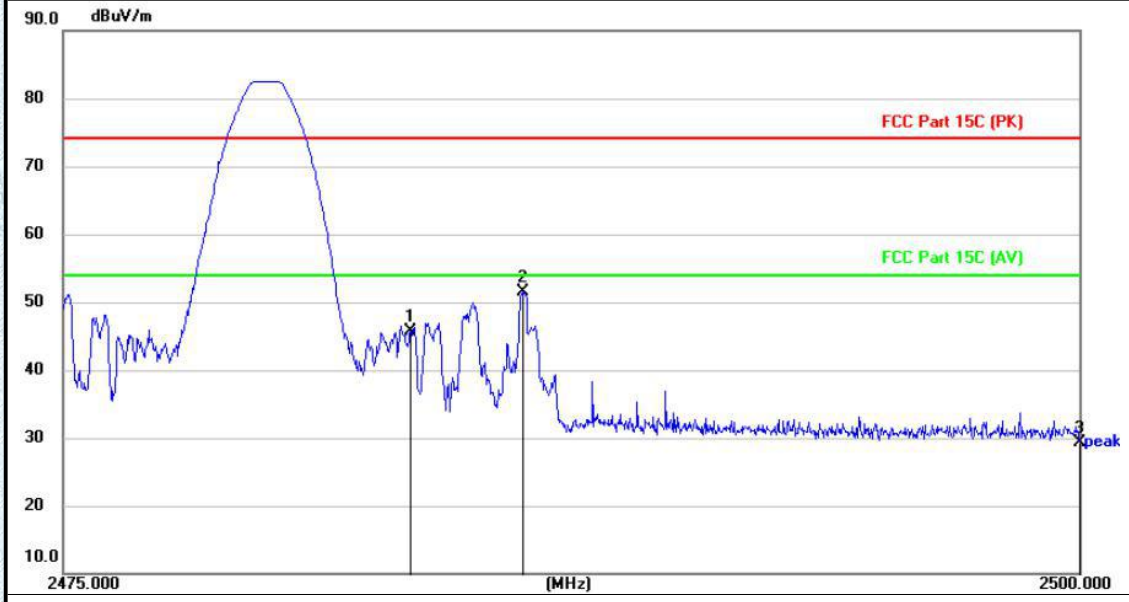
Test Voltage	3.7V
Ant. Pol.	Horizontal
Test Mode:	DH5 Mode 2480MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	53.15	-10.88	42.27	74.00	-31.73	peak
2	*	2485.140	60.24	-10.88	49.36	74.00	-24.64	peak
3		2500.000	41.21	-10.88	30.33	74.00	-43.67	peak

Measurement = Reading level + Correct Factor

Test Voltage	3.7V
Ant. Pol.	Vertical
Test Mode:	DH5 Mode 2480 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	56.58	-10.88	45.70	74.00	-28.30	peak
2	*	2486.269	62.45	-10.88	51.57	74.00	-22.43	peak
3		2500.000	40.28	-10.88	29.40	74.00	-44.60	peak

Measurement = Reading level + Correct Factor

3.9. Radiated Spurious Emissions

Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

Radiated Emission Limit (Above 1000MHz)

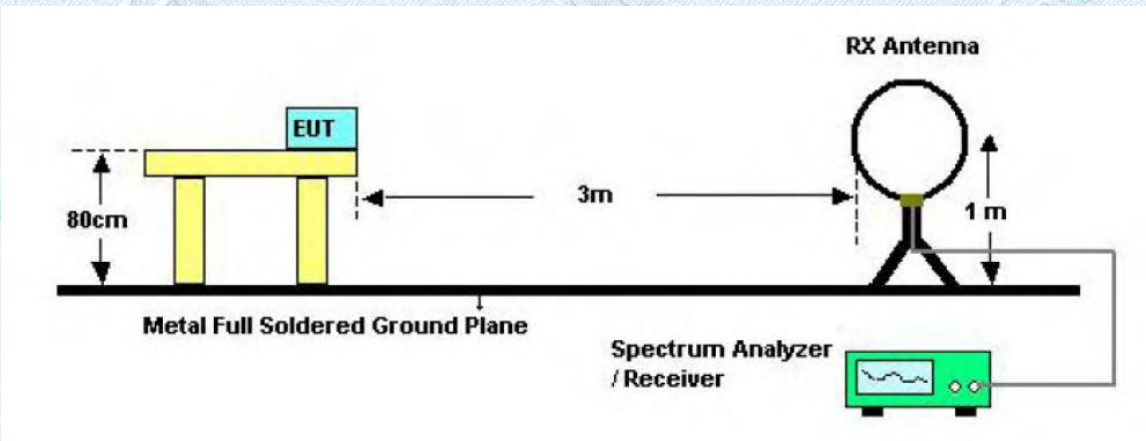
Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

Note:

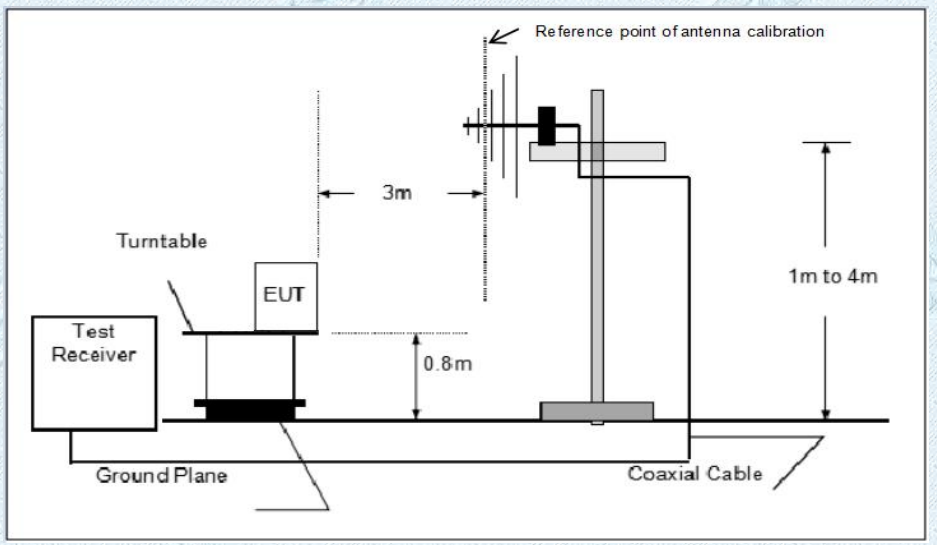
(1) The tighter limit applies at the band edges.

(2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

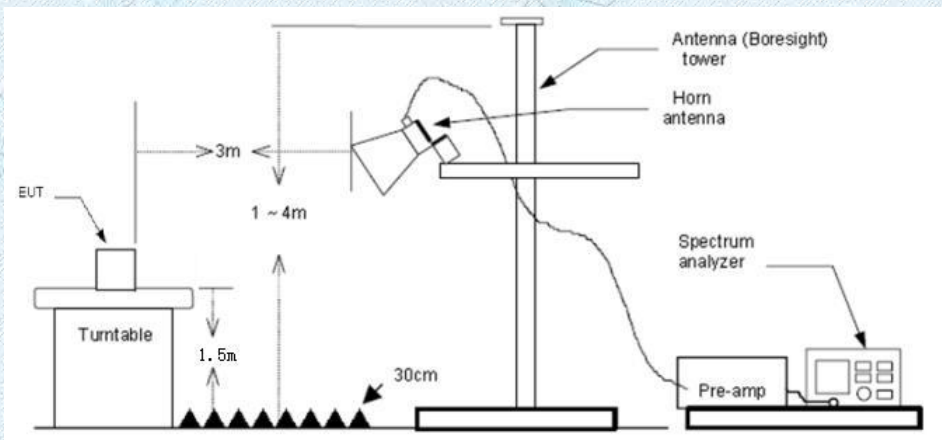
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings

   (1) Span shall wide enough to fully capture the emission being measured;

   (2) Below 1 GHz:

   RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

   If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

   (3) From 1 GHz to 10th harmonic:

   RBW=1MHz, VBW=3MHz Peak detector for Peak value.

   RBW=1MHz, VBW=10Hz Peak detector for Peak value.

Test Mode

Please refer to the clause 2.2.

Test Result

9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

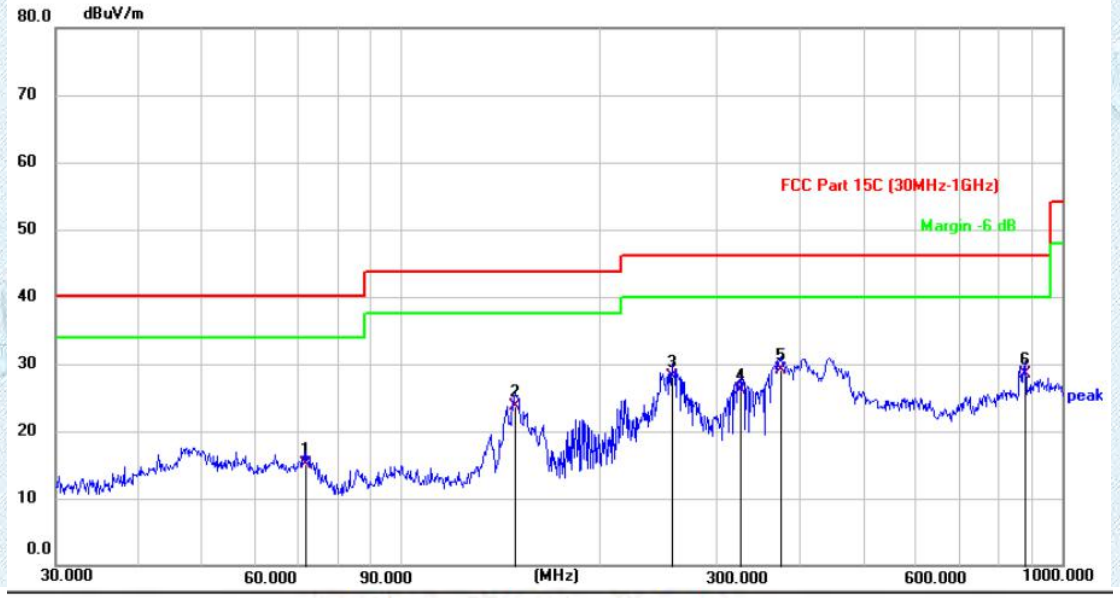
1) Measurement = Reading level + Correct Factor
   Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3) The emission levels of other frequencies are very lower than the limit and not show in test report.
4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
5) Pre-scan DH5, 2DH5 and 3DH5 modulation, found the DH5-CH39 Channel Below 1GHz and found the DH5 modulation which it is worse case for above 1GHz, so only show the test data for worse case.

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

30MHz-1GHz

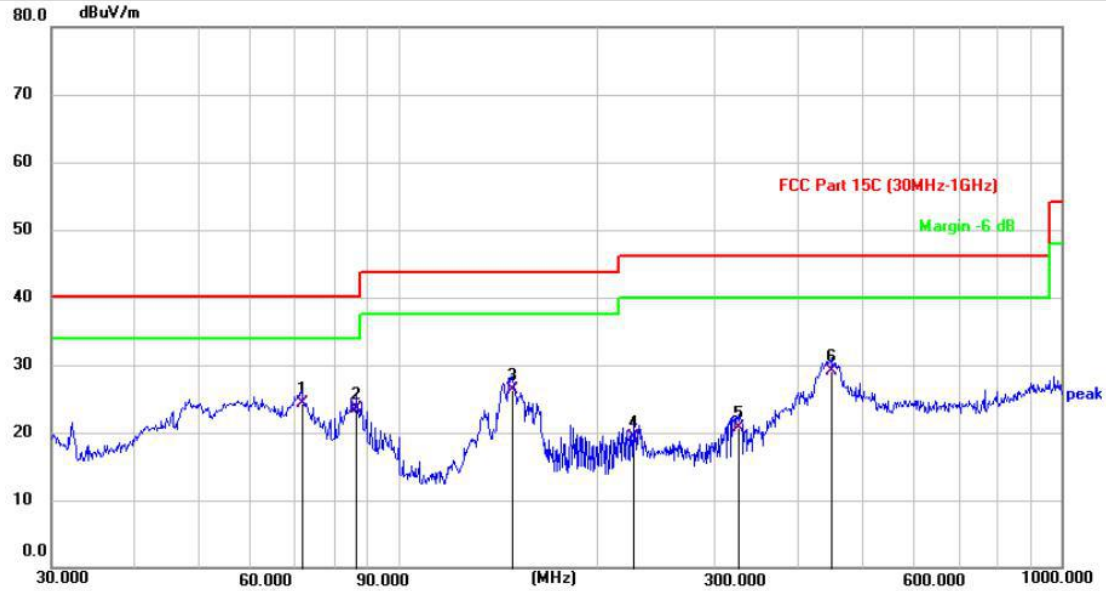
Test Voltage	3.7V
Ant. Pol.	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		71.6057	29.83	-14.67	15.16	40.00	-24.84	QP
2		148.8580	40.23	-16.55	23.68	43.50	-19.82	QP
3		256.7010	39.34	-11.22	28.12	46.00	-17.88	QP
4		326.6250	35.97	-9.89	26.08	46.00	-19.92	QP
5	*	375.2800	38.00	-8.98	29.02	46.00	-16.98	QP
6		879.8627	30.40	-1.84	28.56	46.00	-17.44	QP

Measurement = Reading level + Correct Factor

Test Voltage	3.7V
Ant. Pol.	Vertical

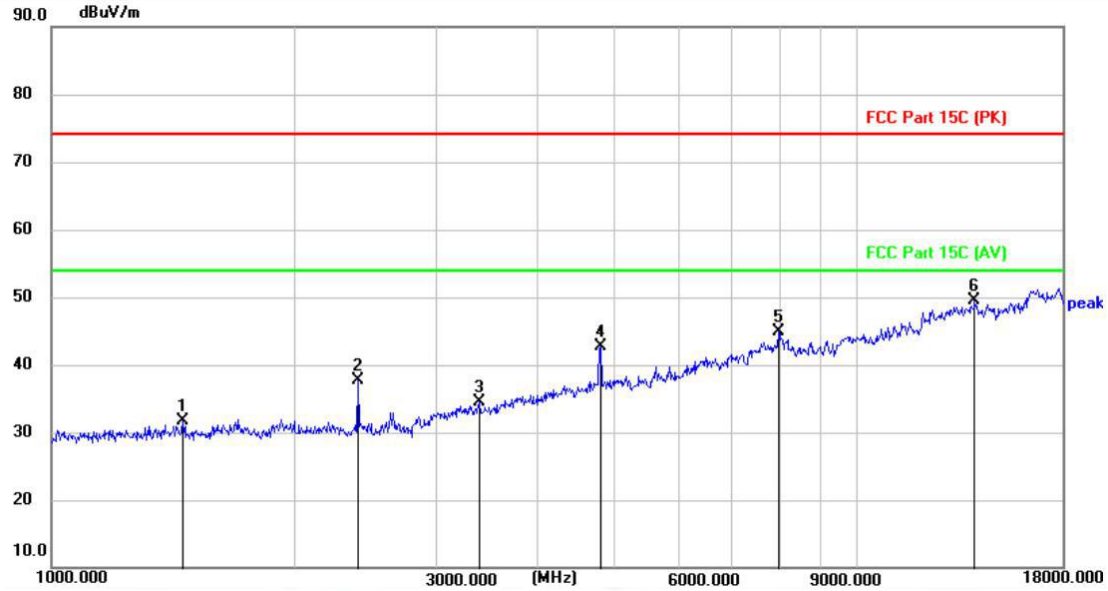


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	*	71.3801	38.91	-14.65	24.26	40.00	-15.74	QP
2		86.5635	38.63	-15.22	23.41	40.00	-16.59	QP
3		148.6494	42.81	-16.54	26.27	43.50	-17.23	QP
4		226.3374	31.52	-12.29	19.23	46.00	-26.77	QP
5		326.6250	30.53	-9.89	20.64	46.00	-25.36	QP
6		449.7135	36.48	-7.35	29.13	46.00	-16.87	QP

Measurement = Reading level + Correct Factor

Adobe 1GHz

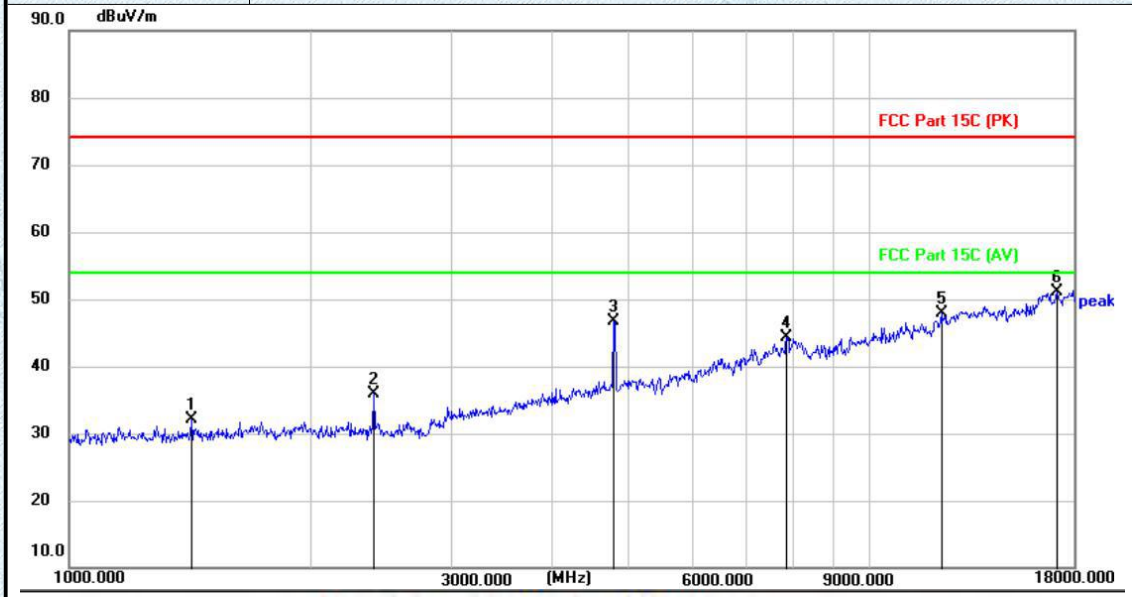
Ant. Pol.	Horizontal
Test Mode:	TX DH5 Mode 2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1459.000	43.50	-11.81	31.69	74.00	-42.31	peak
2		2402.500	48.61	-10.91	37.70	74.00	-36.30	peak
3		3397.000	44.40	-9.86	34.54	74.00	-39.46	peak
4		4804.600	48.72	-5.92	42.80	74.00	-31.20	peak
5		7998.900	42.91	2.07	44.98	74.00	-29.02	peak
6	*	14018.600	38.38	11.21	49.59	74.00	-24.41	peak

Measurement = Reading level + Correct Factor

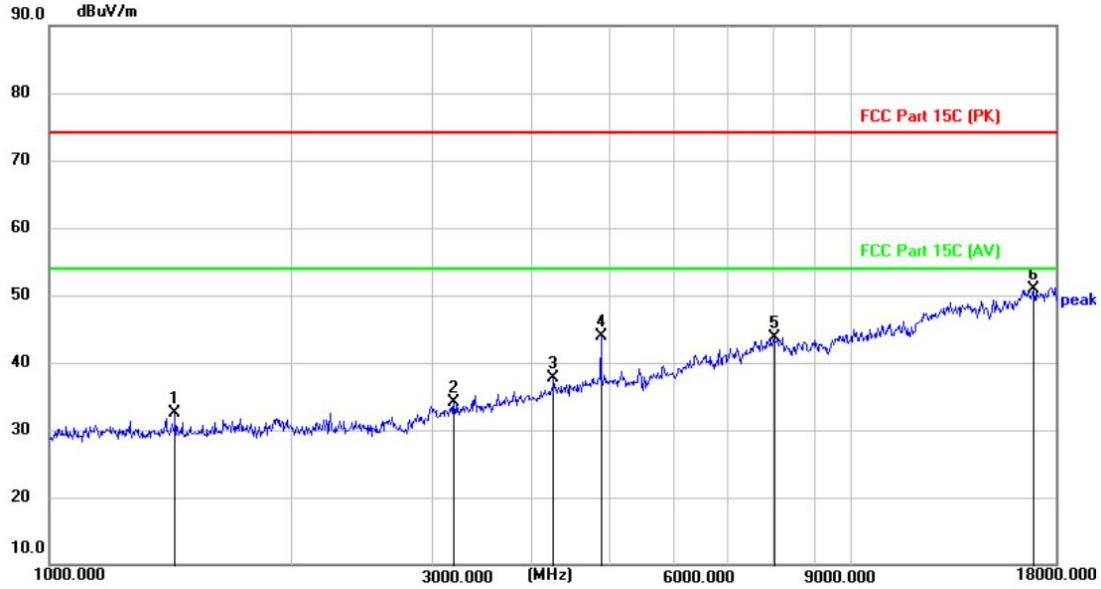
Ant. Pol.	Vertical
Test Mode:	TX DH5 Mode 2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1425.000	43.98	-11.87	32.11	74.00	-41.89	peak
2		2402.500	46.72	-10.91	35.81	74.00	-38.19	peak
3		4802.900	52.68	-5.92	46.76	74.00	-27.24	peak
4		7890.100	42.53	1.79	44.32	74.00	-29.68	peak
5		12308.400	39.29	8.56	47.85	74.00	-26.15	peak
6	*	17138.100	37.90	13.13	51.03	74.00	-22.97	peak

Measurement = Reading level + Correct Factor

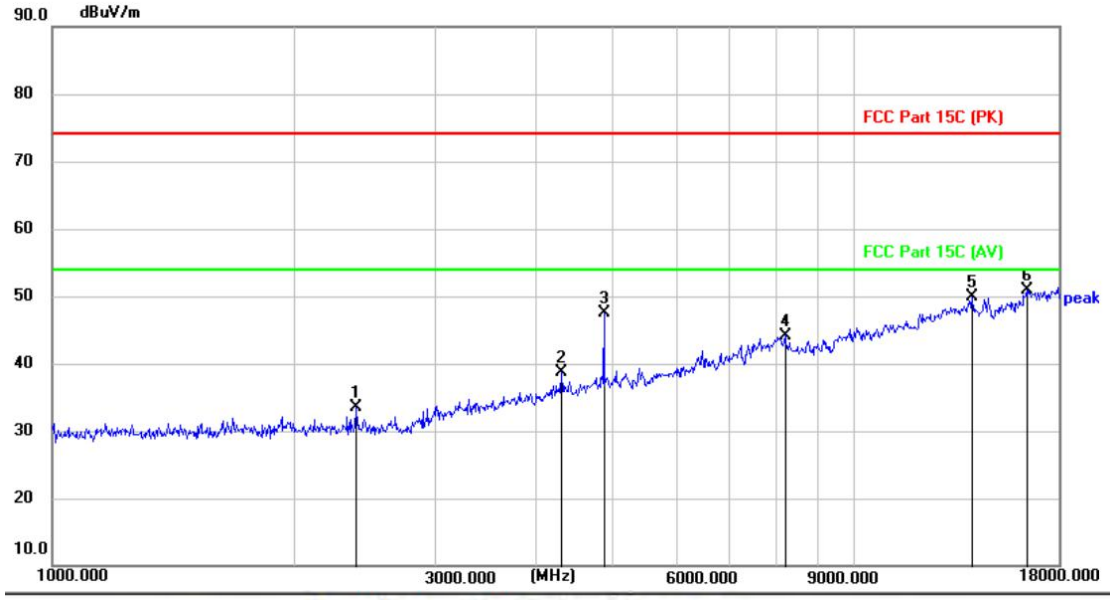
Ant. Pol.	Horizontal
Test Mode:	TX DH5 Mode 2441MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1438.600	44.30	-11.85	32.45	74.00	-41.55	peak
2		3199.800	44.33	-10.23	34.10	74.00	-39.90	peak
3		4257.200	45.26	-7.57	37.69	74.00	-36.31	peak
4		4882.800	49.68	-5.71	43.97	74.00	-30.03	peak
5		8022.700	41.64	2.06	43.70	74.00	-30.30	peak
6	*	16900.100	37.63	13.19	50.82	74.00	-23.18	peak

Measurement = Reading level + Correct Factor

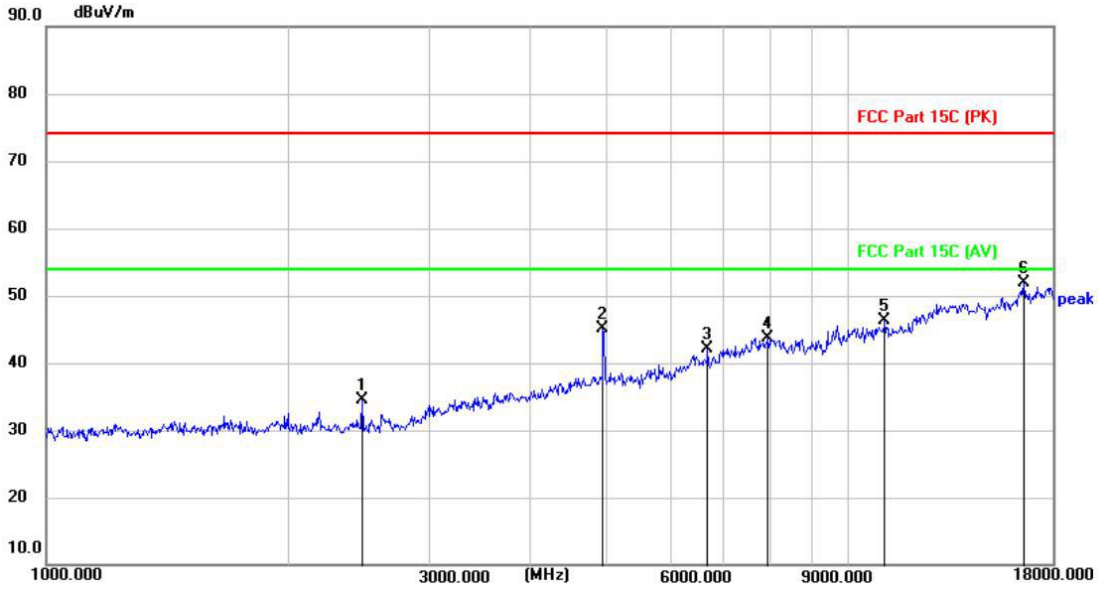
Ant. Pol.	Vertical
Test Mode:	TX DH5 Mode 2441MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2399.100	44.37	-10.92	33.45	74.00	-40.55	peak
2		4318.400	46.04	-7.36	38.68	74.00	-35.32	peak
3		4881.100	53.15	-5.71	47.44	74.00	-26.56	peak
4		8201.200	42.18	2.02	44.20	74.00	-29.80	peak
5		14047.500	38.70	11.16	49.86	74.00	-24.14	peak
6	*	16415.600	37.22	13.61	50.83	74.00	-23.17	peak

Measurement = Reading level + Correct Factor

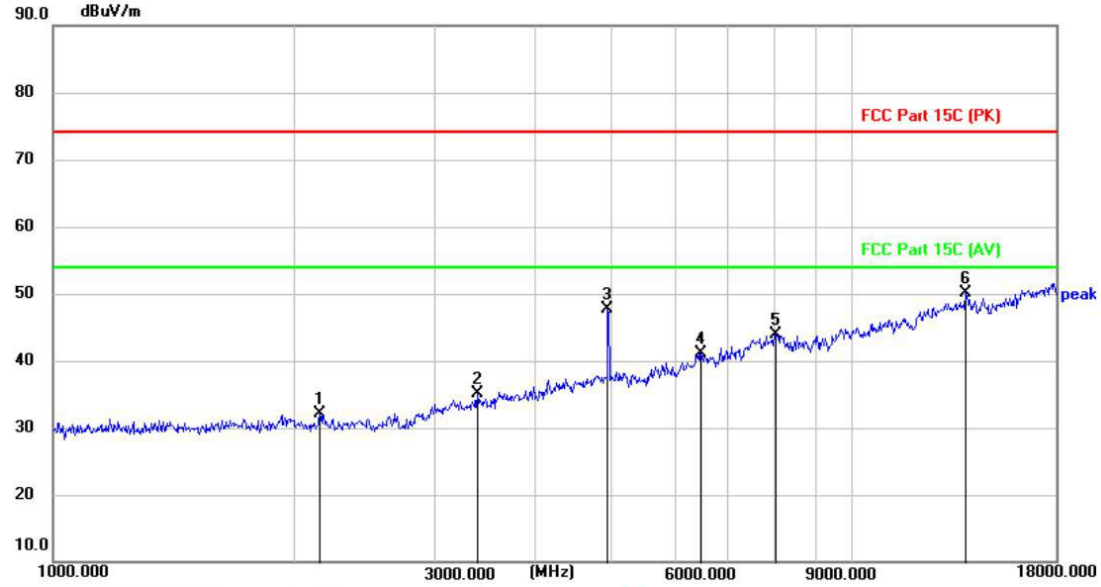
Ant. Pol.	Horizontal
Test Mode:	TX DH5 Mode 2480MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2480.700	45.31	-10.89	34.42	74.00	-39.58	peak
2		4959.300	50.60	-5.51	45.09	74.00	-28.91	peak
3		6679.700	43.75	-1.60	42.15	74.00	-31.85	peak
4		7954.700	41.78	1.96	43.74	74.00	-30.26	peak
5		11118.400	40.42	5.98	46.40	74.00	-27.60	peak
6	*	16570.300	38.23	13.70	51.93	74.00	-22.07	peak

Measurement = Reading level + Correct Factor

Ant. Pol.	Vertical
Test Mode:	TX DH5 Mode 2480MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2159.400	43.05	-11.00	32.05	74.00	-41.95	peak
2		3398.700	44.95	-9.86	35.09	74.00	-38.91	peak
3		4959.300	53.23	-5.51	47.72	74.00	-26.28	peak
4		6475.700	43.35	-2.19	41.16	74.00	-32.84	peak
5		8015.900	41.87	2.07	43.94	74.00	-30.06	peak
6	*	13916.600	39.08	11.12	50.20	74.00	-23.80	peak

Measurement = Reading level + Correct Factor

Note:

All test modes had been tested. The GFSK(DH5) modulation is the worst case and recorded in the report.

3.10. Conducted Emission

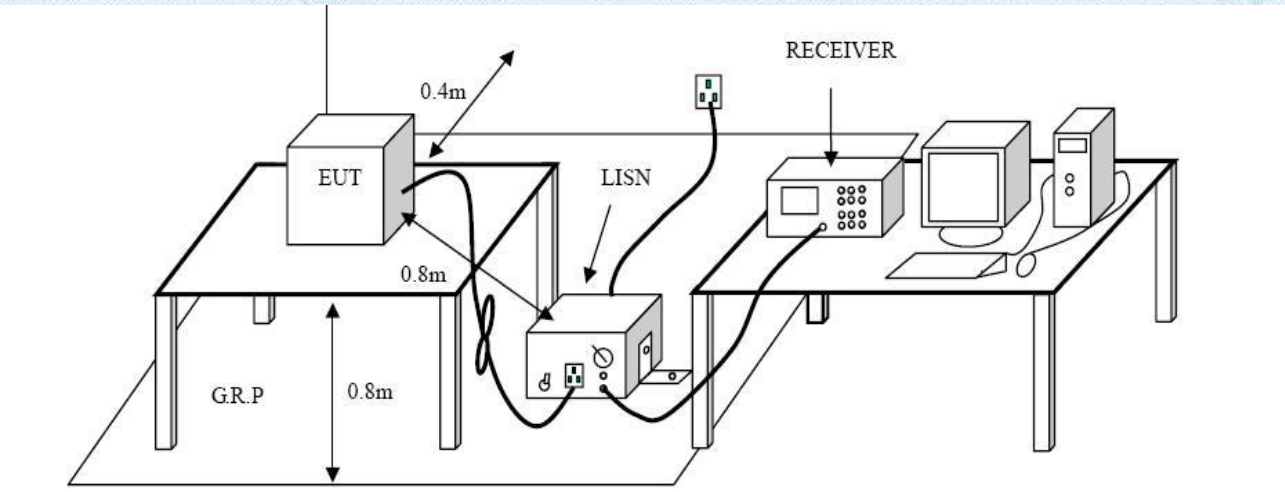
Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dBμV)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:
(1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequencies.
(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.
   The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

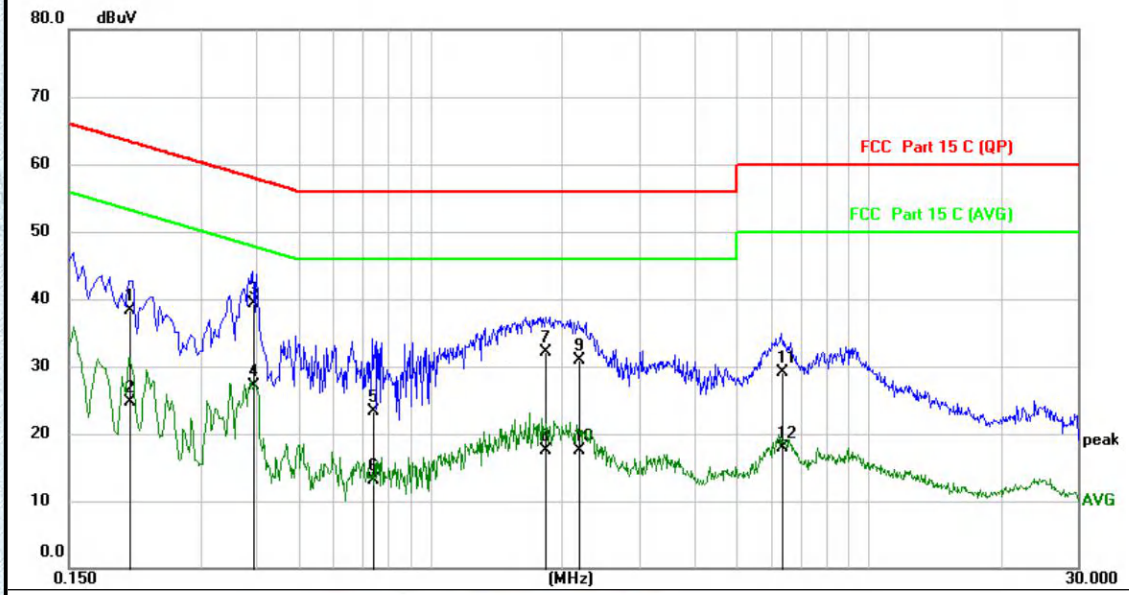
Test Mode:

Please refer to the clause 2.2

Test Results

Pre-scan DH5, 2DH5,3DH5 modulation, and found the DH5 modulation 2402MHz which it is worse case, so only show the test data for worse case.

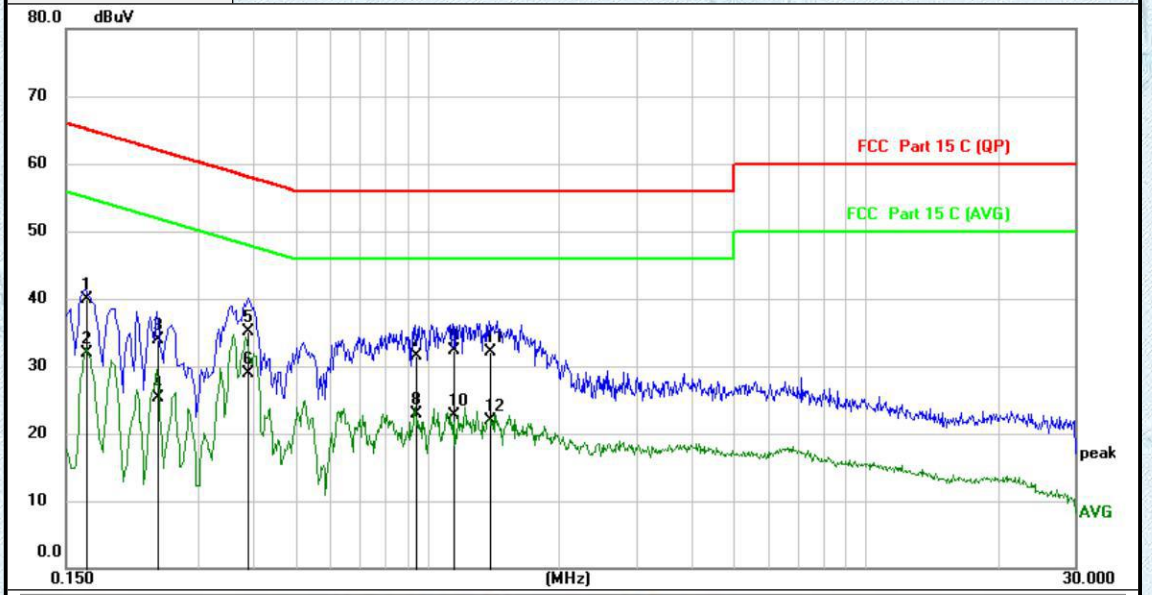
Test Voltage:	AC 120V/60 Hz
Terminal:	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2060	27.38	10.88	38.26	63.37	-25.11	QP
2		0.2060	13.82	10.88	24.70	53.37	-28.67	AVG
3	*	0.3940	28.44	10.89	39.33	57.98	-18.65	QP
4		0.3940	16.31	10.89	27.20	47.98	-20.78	AVG
5		0.7420	12.46	10.88	23.34	56.00	-32.66	QP
6		0.7420	2.15	10.88	13.03	46.00	-32.97	AVG
7		1.8380	21.21	10.88	32.09	56.00	-23.91	QP
8		1.8380	6.55	10.88	17.43	46.00	-28.57	AVG
9		2.1820	20.10	10.89	30.99	56.00	-25.01	QP
10		2.1820	6.55	10.89	17.44	46.00	-28.56	AVG
11		6.3220	18.10	10.97	29.07	60.00	-30.93	QP
12		6.3220	6.86	10.97	17.83	50.00	-32.17	AVG

Remarks:
1.Measurement = Reading Level+ Correct Factor
2.Over = Measurement -Limit

Test Voltage:	AC 120V/60 Hz
Terminal:	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1660	29.15	10.84	39.99	65.16	-25.17	QP
2		0.1660	21.05	10.84	31.89	55.16	-23.27	AVG
3		0.2420	23.04	10.86	33.90	62.03	-28.13	QP
4		0.2420	14.50	10.86	25.36	52.03	-26.67	AVG
5		0.3899	24.18	10.86	35.04	58.07	-23.03	QP
6	*	0.3899	18.02	10.86	28.88	48.07	-19.19	AVG
7		0.9420	20.56	10.87	31.43	56.00	-24.57	QP
8		0.9420	11.97	10.87	22.84	46.00	-23.16	AVG
9		1.1420	21.44	10.87	32.31	56.00	-23.69	QP
10		1.1420	11.77	10.87	22.64	46.00	-23.36	AVG
11		1.3820	21.14	10.88	32.02	56.00	-23.98	QP
12		1.3820	10.96	10.88	21.84	46.00	-24.16	AVG

Remarks:
1.Measurement = Reading Level+ Correct Factor
2.Over = Measurement -Limit

3.11. Pseudorandom Frequency Hopping Sequence

LIMIT

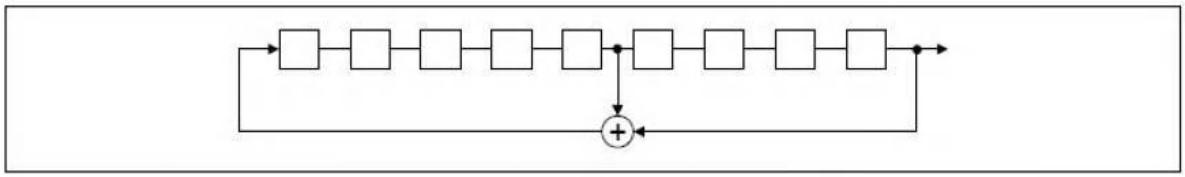
FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Al-ternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their cor-responding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

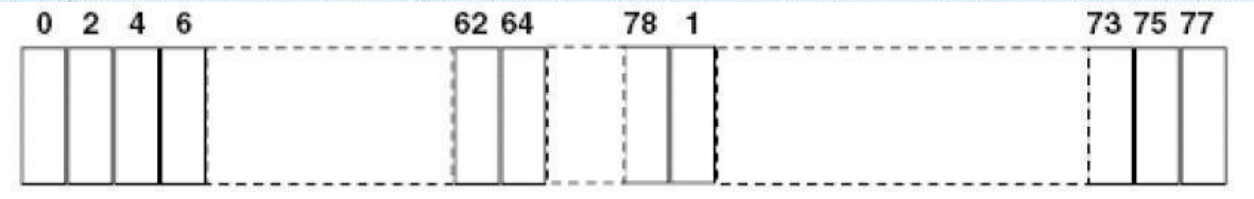
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage.And the result is fed back to the input of the friststage.The sequence begins with the frist one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An explame of pseudorandom frequency hopping sequence as follows:

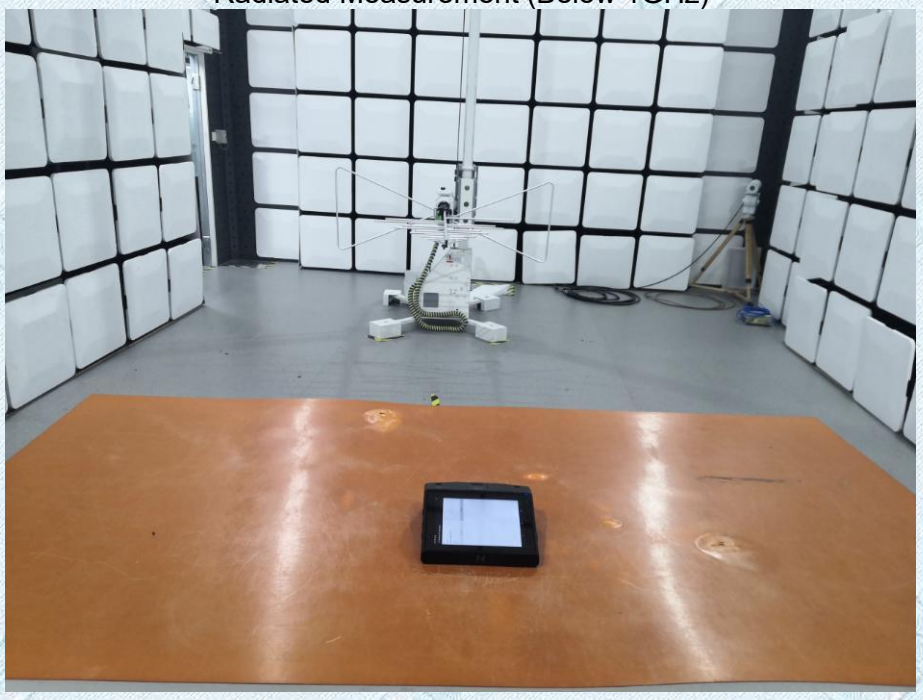


Each frequency used equally one the average by each transmitter.

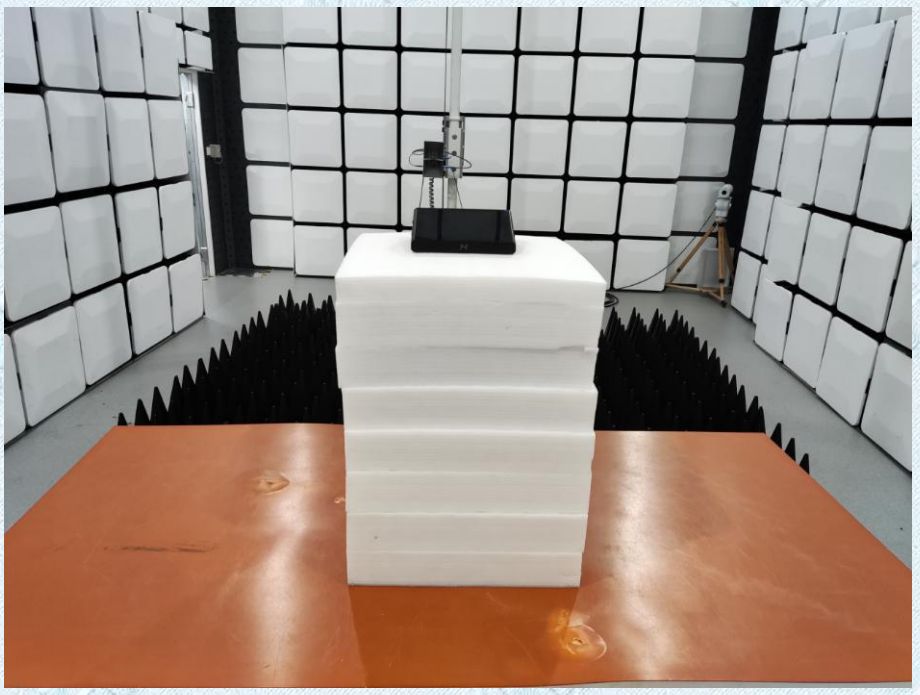
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

4.EUT TEST PHOTOS

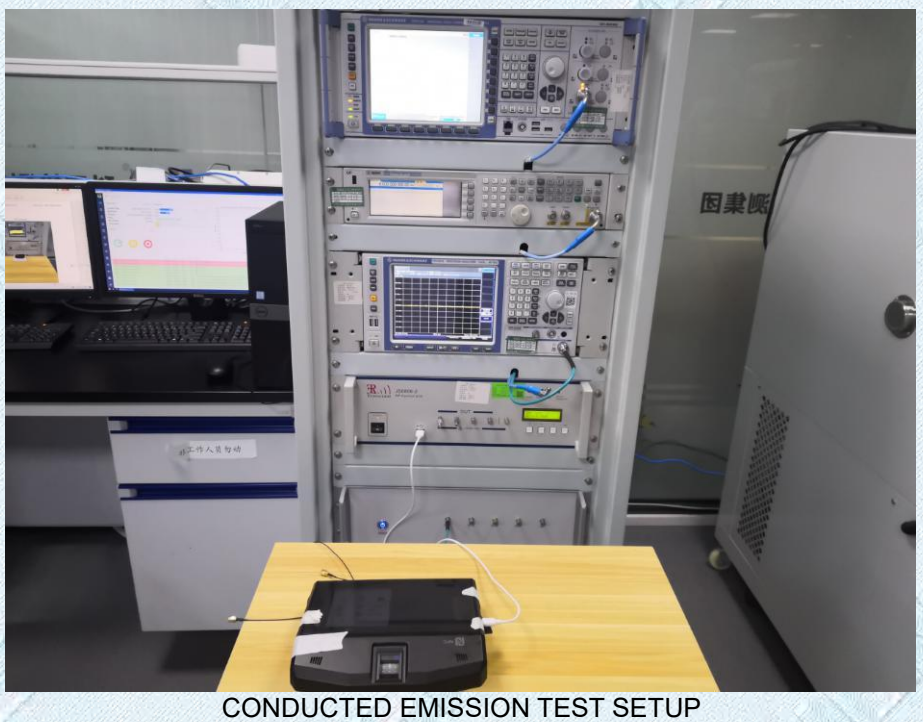
Radiated Measurement (Below 1GHz)



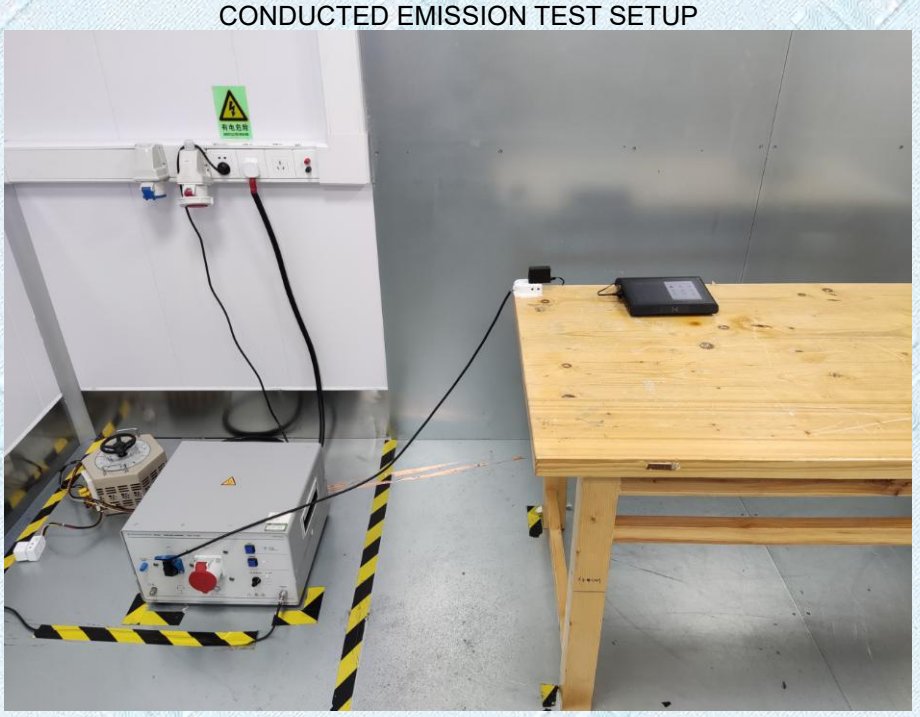
Radiated Measurement (Above 1GHz)



RF Conducted



CONDUCTED EMISSION TEST SETUP



5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please refer to External Photographs and Internal Photographs

**********THE END**********