




■ Report No.: DDT-R22062728-2E01

■ Issued Date: Aug. 11, 2022

FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	LOUD AUDIO, LLC
Address	:	19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA
Equipment under Test	:	Wireless Headphones with Wide-Band Active Noise Cancelling
Model No.	:	MC-50BT
Trade Mark	:	
FCC ID	:	2AD4XMC50BT
IC	:	12714A-MC50BT
Manufacturer	:	LOUD AUDIO, LLC
Address	:	19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

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REPORT

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Test Report Declare

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Equipment under Test	:	Wireless Headphones with Wide-Band Active Noise Cancelling
Model No.	:	MC-50BT
Trade Mark	:	
Manufacturer	:	LOUD AUDIO, LLC
Address	:	19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

Test Procedure Used:

ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021).

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No.:	DDT-R22062728-2E01		
Date of Receipt:	Jul. 20, 2022	Date of Test:	Jul. 20, 2022 ~ Aug. 10, 2022

Prepared By:

Jacky Huang

Jacky Huang/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Aug. 11, 2022	

1. Summary of Test Results

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.10:2013 RSS-247 Issue 2	Pass
20dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013 RSS-247 Issue 2	Pass
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10:2013 RSS-247 Issue 2	Pass
Number of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10:2013 RSS-247 Issue 2	Pass
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10:2013 RSS-247 Issue 2	Pass
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10:2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013 RSS-Gen Issue 5	Pass
Antenna Requirement	FCC Part 15: 15.203 RSS-Gen Issue 5	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	: Wireless Headphones with Wide-Band Active Noise Cancelling
Model Number	: MC-50BT
EUT Function Description	: Please reference user manual of this device
Power Supply	: 5V by Type-C port or DC 3.7V Polymer Li-ion built-in battery
Radio Specification	: Bluetooth V5.0
Operation Frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Type	: Ceramic antenna, max peak gain: 3.45 dBi
Sample number	: S22062728-05 for radiation, S22062728-10 for conductive

Note: EUT is the ab. of equipment under test.

Channel Information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
Type-C cable	N/A	N/A	N/A	Length: 81cm, unshielded

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test

EUT

Test software: BQB.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Mode	Channel	Frequency (MHz)
GFSK hopping on Tx mode	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	CH0	2402
	CH39	2441
	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	CH0	2402
	CH39	2441
	CH78	2480
8DPSK hopping off Tx mode	CH0	2402
	CH39	2441
	CH78	2480

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 × 10 ⁻⁸ (Antenna couple method)
	5.5 × 10 ⁻⁸ (Conducted method)
Conducted Spurious Emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 22 GHz)
Uncertainty for Radio Frequency (RBW<20 KHz)	3×10 ⁻⁸
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission Test (30 Mhz-1 Ghz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 Ghz-40 Ghz)	4.10 dB (1-6 GHz)
	4.40 dB (6 GHz-18 GHz)
	3.54 dB (18 GHz-26 GHz)
	4.30 dB (26 GHz-40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.32 dB (150 kHz-30 MHz)

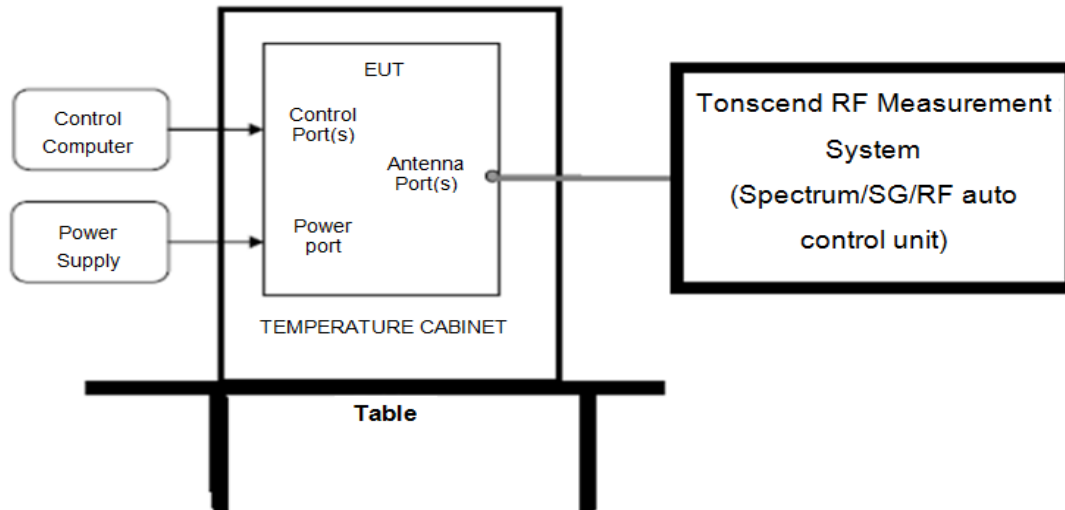
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑RF Connected Test (Tonscend RF Measurement System 1#)					
SIGNAL ANALYZER	R&S	FSQ26	101272	May 18, 2022	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Sep. 02, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 15, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	May 18, 2022	1 Year
RF Control Unit	Tonsend	JS0806-2	158060010	May 18, 2022	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	May 26, 2022	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
☑Radiation 3#chamber					
EMI Test Receiver	R&S	ESU	100472	May 18, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 18, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Jul. 22, 2022	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02468	Nov. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
☑Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 07, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 07, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. Maximum Peak Output Power

4.1. Block diagram of test setup



4.2. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

4.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=3 MHz (above 20 dB bandwidth of measured signal), VBW=10 MHz

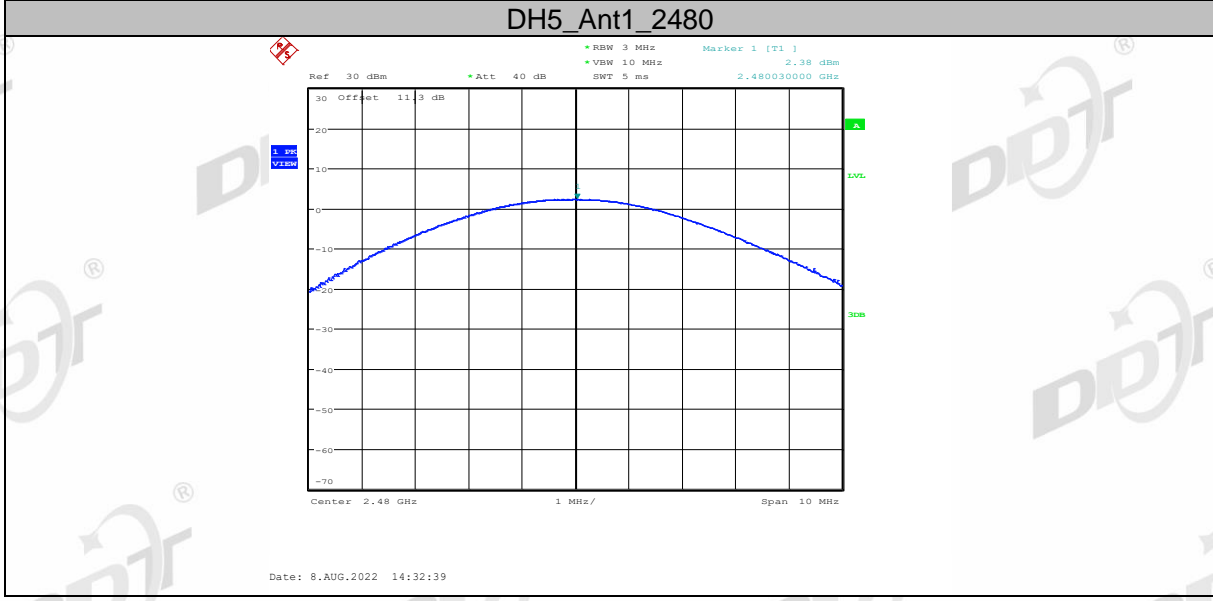
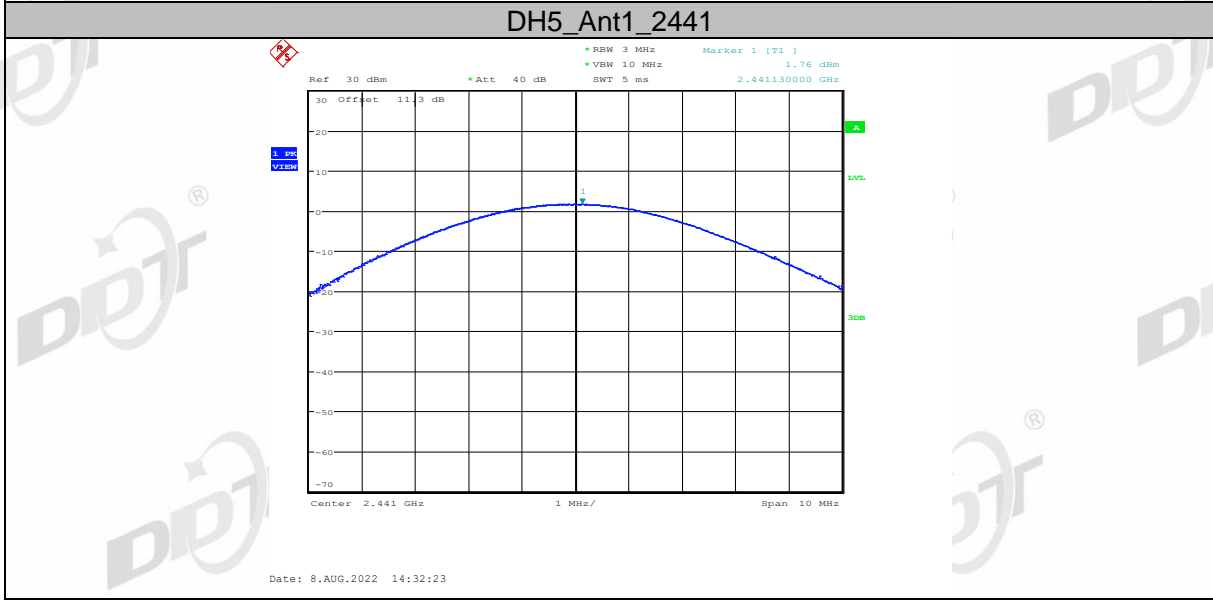
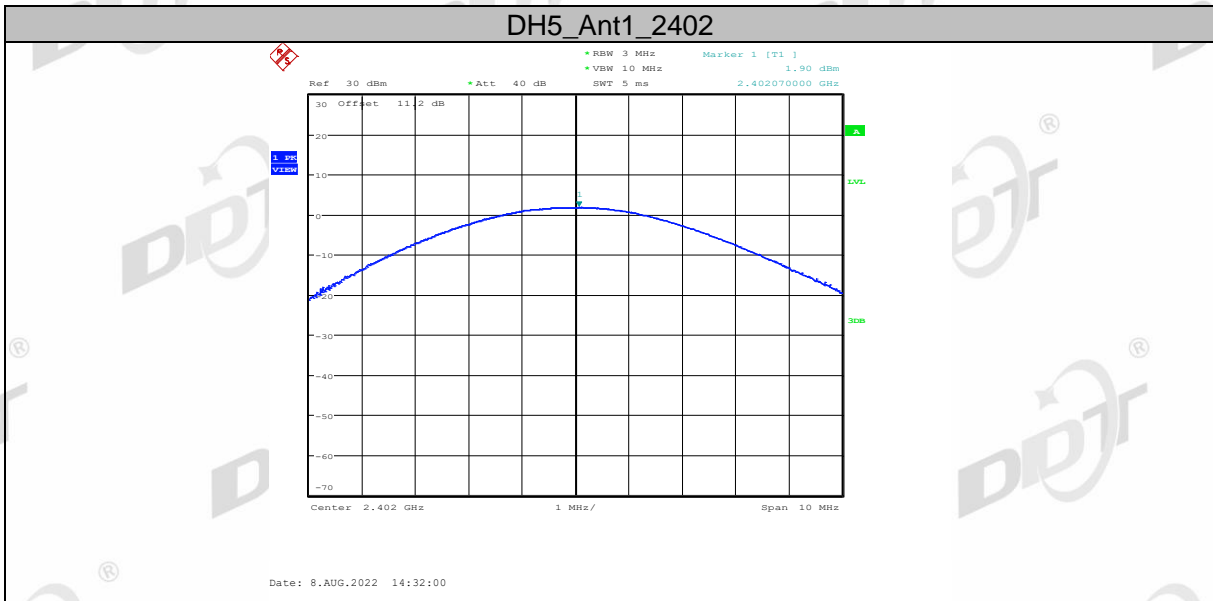
Note: The attenuator loss was inputted into spectrum analyzer as amplitude offset.

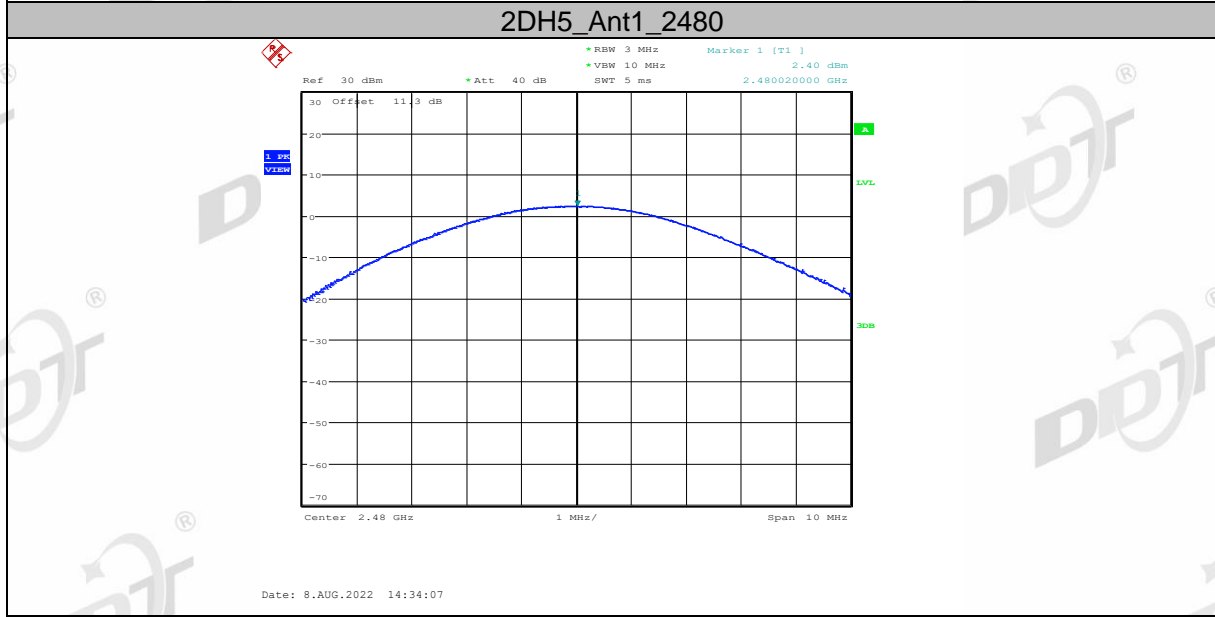
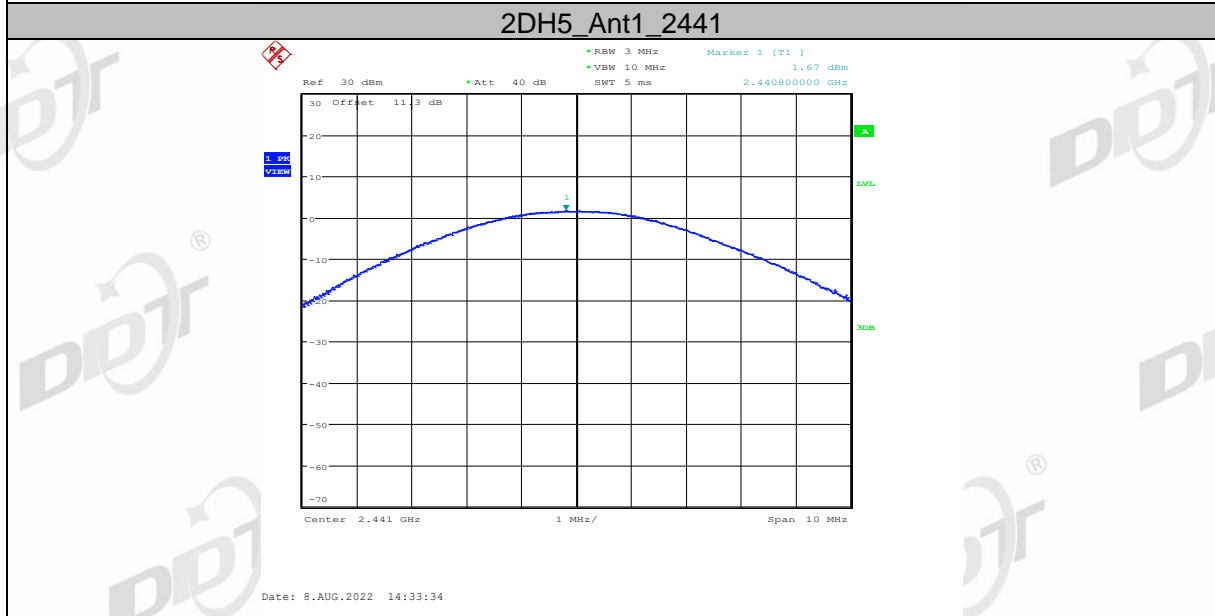
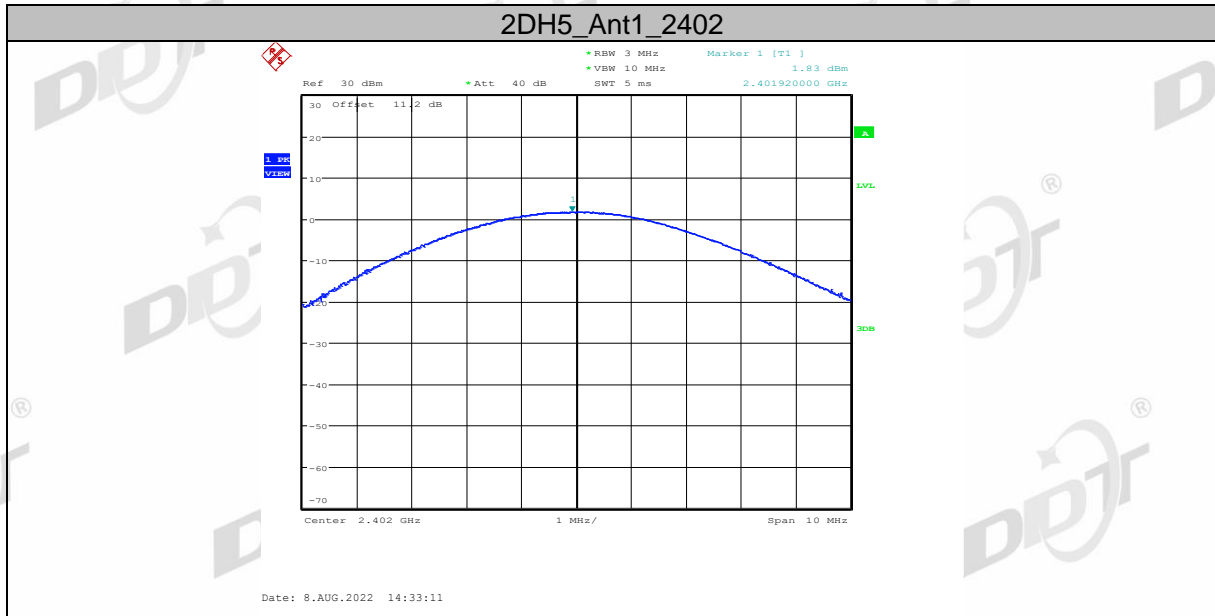
4.4. Test result

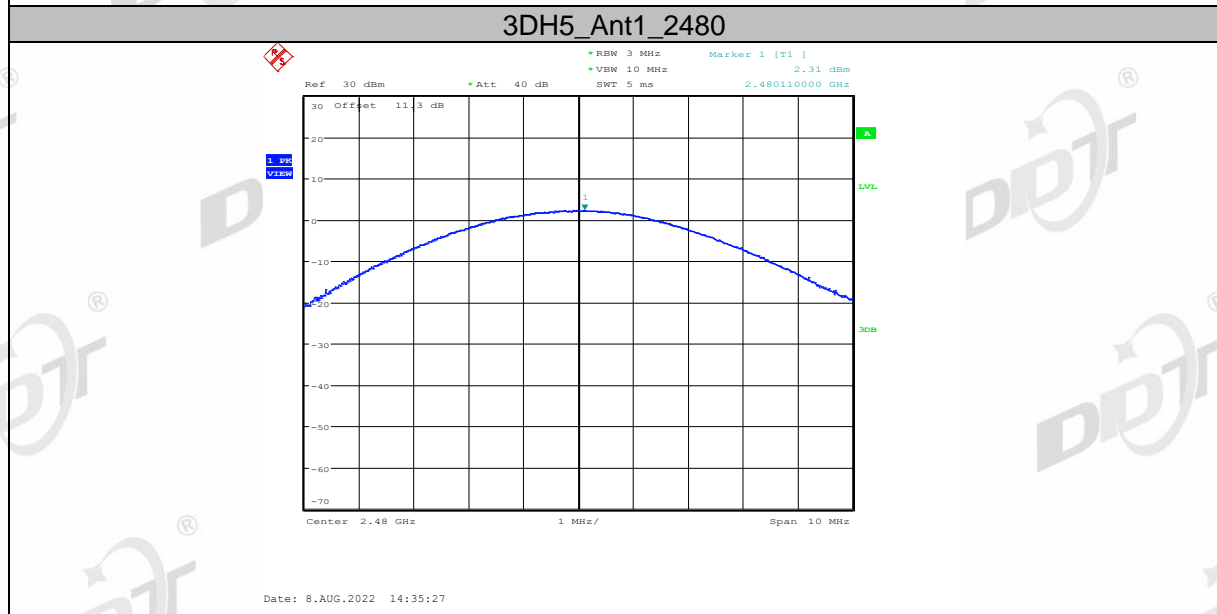
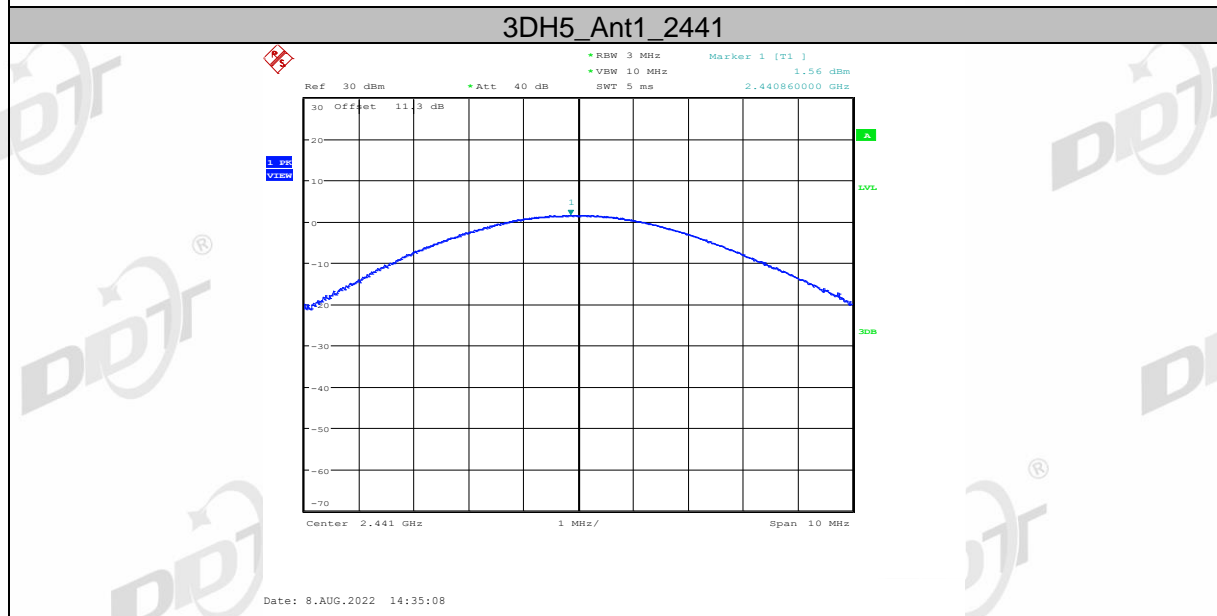
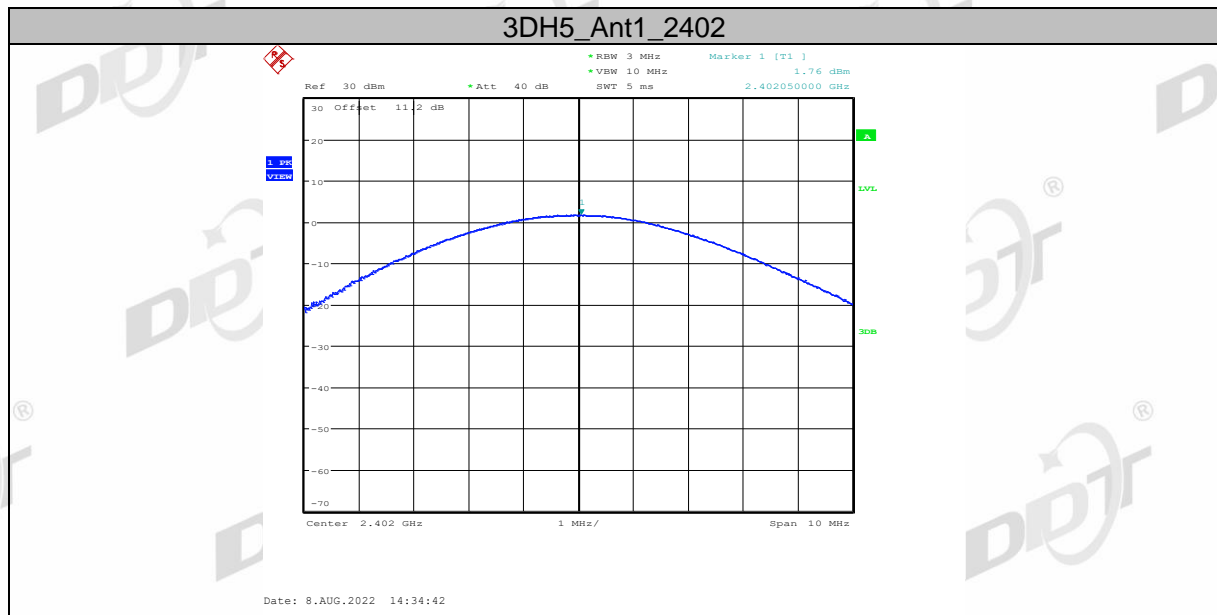
Mode	Antenna	Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GFSK	ANT1	2402	1.90	30	Pass
	ANT1	2441	1.76	30	Pass
	ANT1	2480	2.38	30	Pass
$\pi/4$ -DQPSK	ANT1	2402	1.83	30	Pass
	ANT1	2441	1.67	30	Pass
	ANT1	2480	2.40	30	Pass
8DPSK	ANT1	2402	1.76	30	Pass
	ANT1	2441	1.56	30	Pass
	ANT1	2480	2.31	30	Pass

Mode	Antenna	Freq. (MHz)	e.i.r.p (dBm)	Limit (dBm)	Verdict
GFSK	ANT1	2402	5.35	36	Pass
	ANT1	2441	5.21	36	Pass
	ANT1	2480	5.83	36	Pass
$\pi/4$ -DQPSK	ANT1	2402	5.28	36	Pass
	ANT1	2441	5.12	36	Pass
	ANT1	2480	5.85	36	Pass
8DPSK	ANT1	2402	5.21	36	Pass
	ANT1	2441	5.01	36	Pass
	ANT1	2480	5.76	36	Pass

4.5. Original test data







5. 20dB Bandwidth and 99% Bandwidth

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test procedure

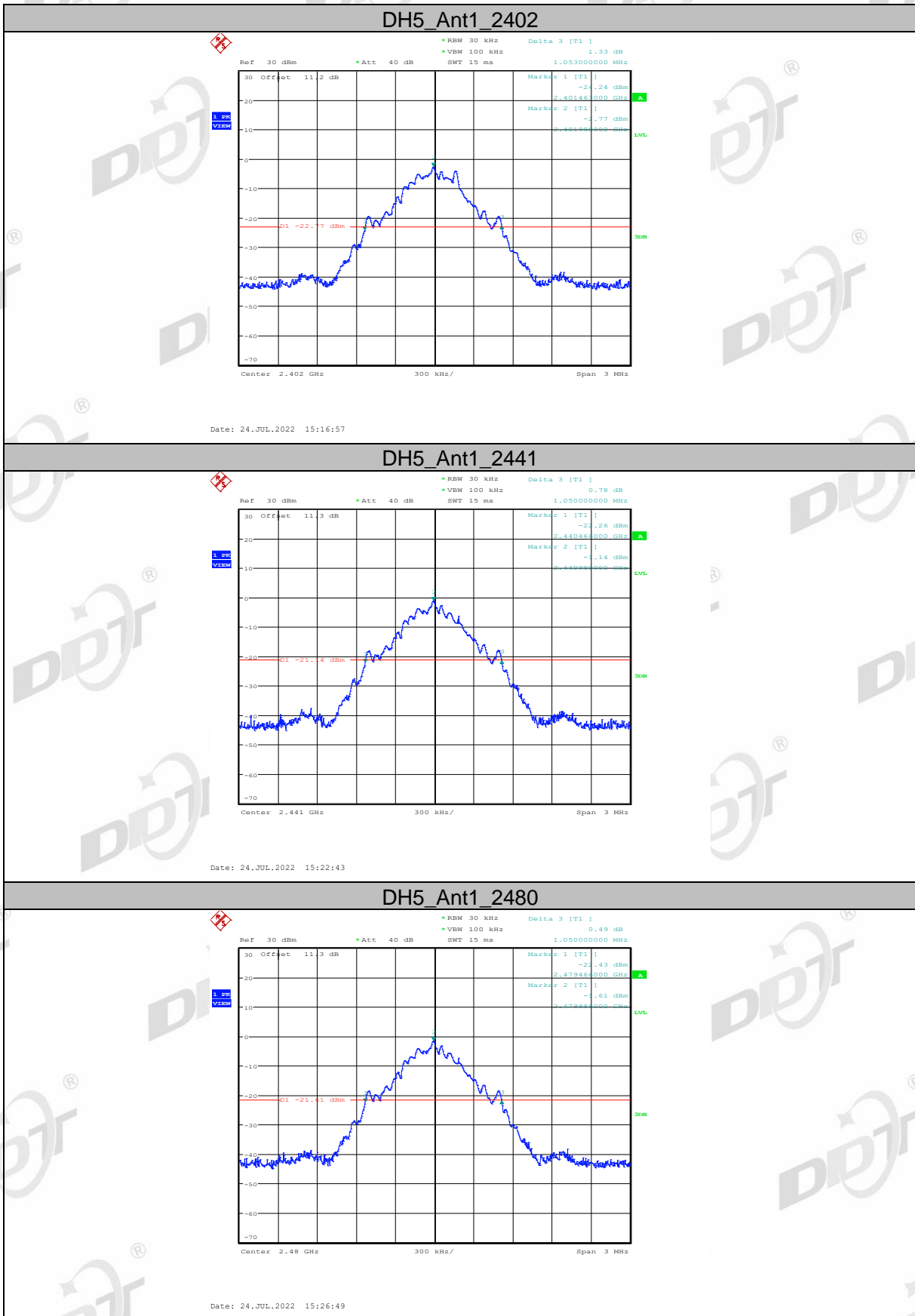
- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 kHz RBW and 100 kHz VBW. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

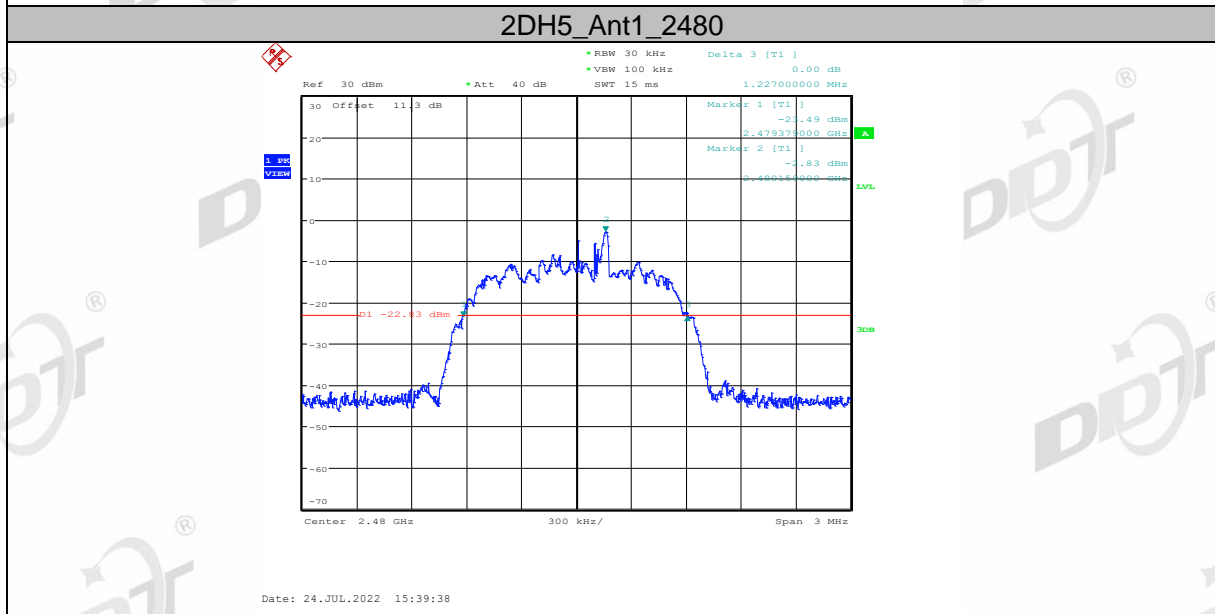
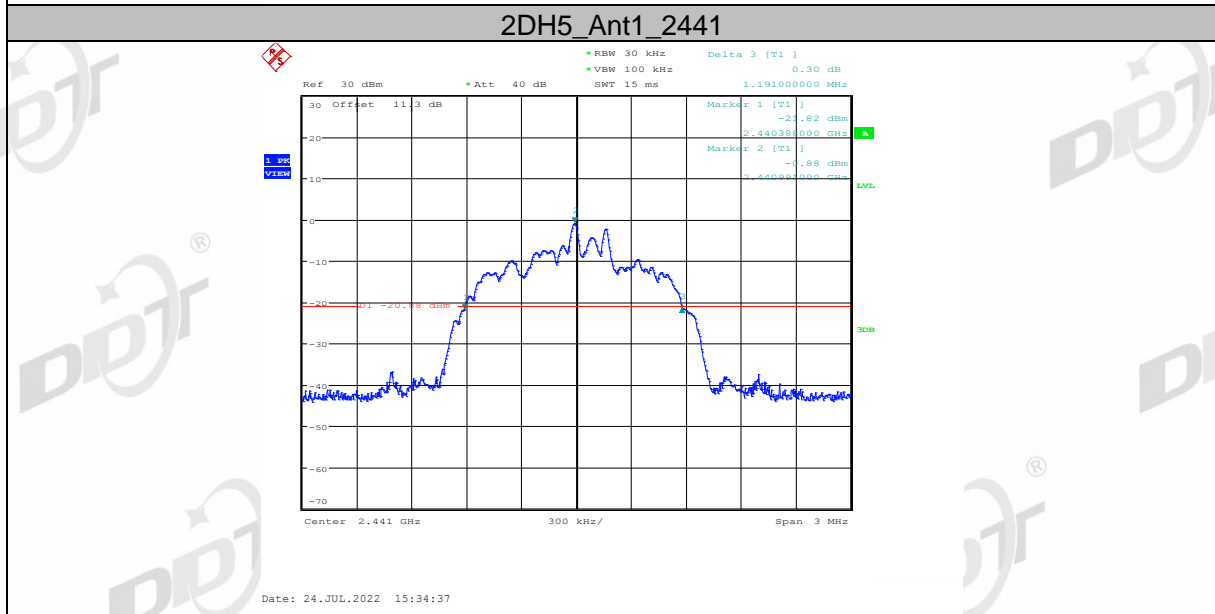
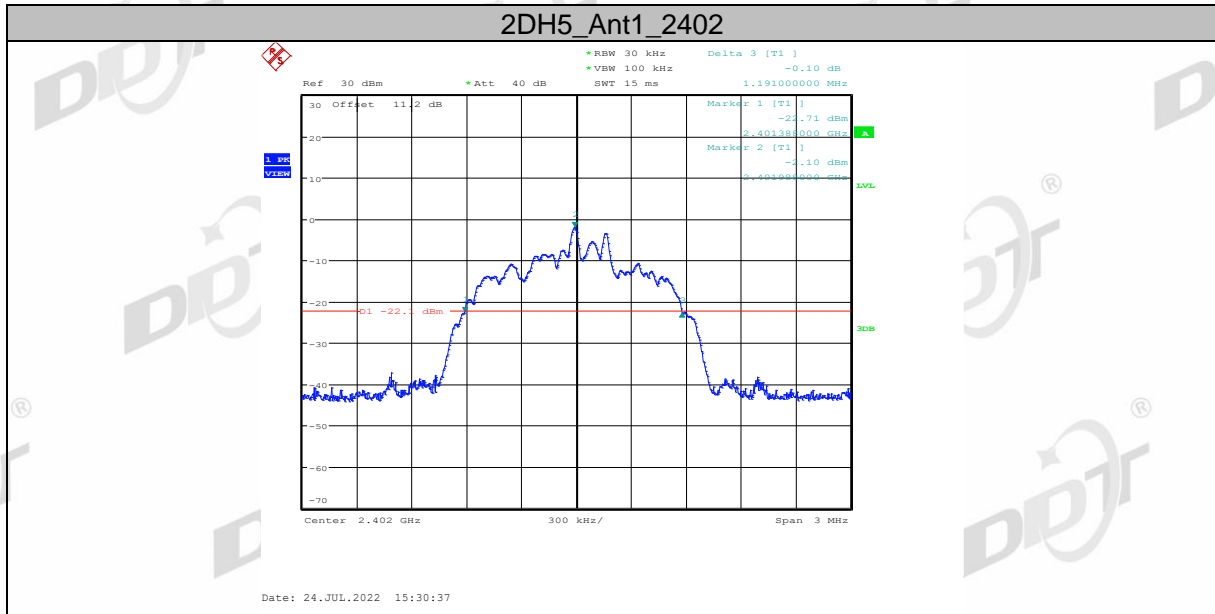
5.4. Test result

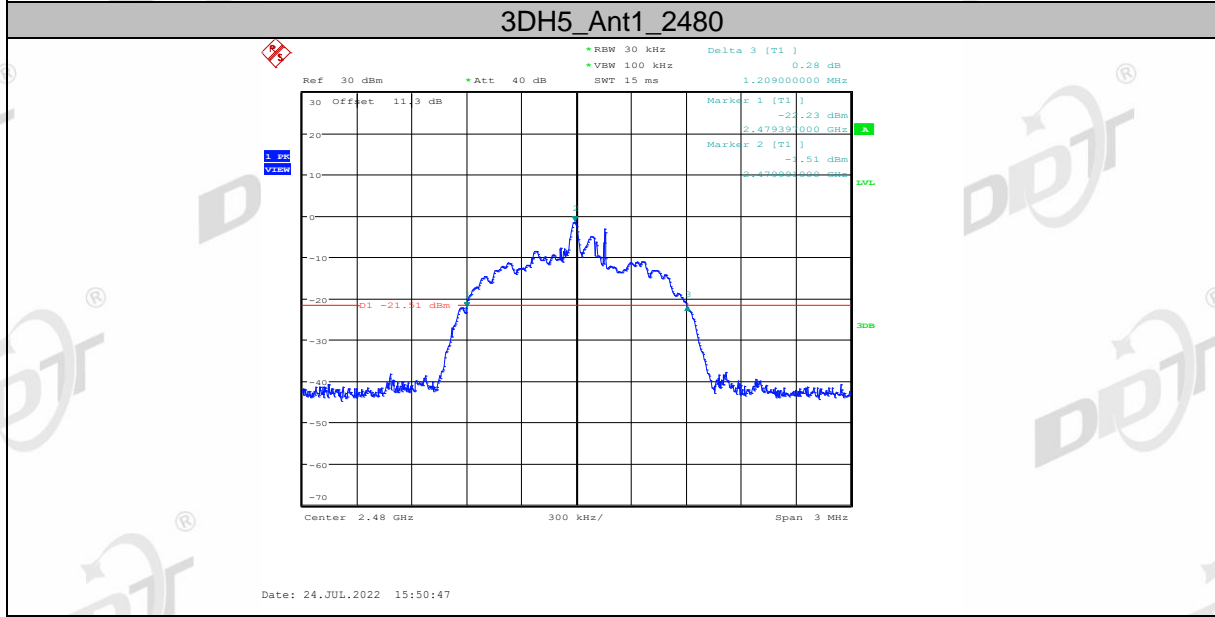
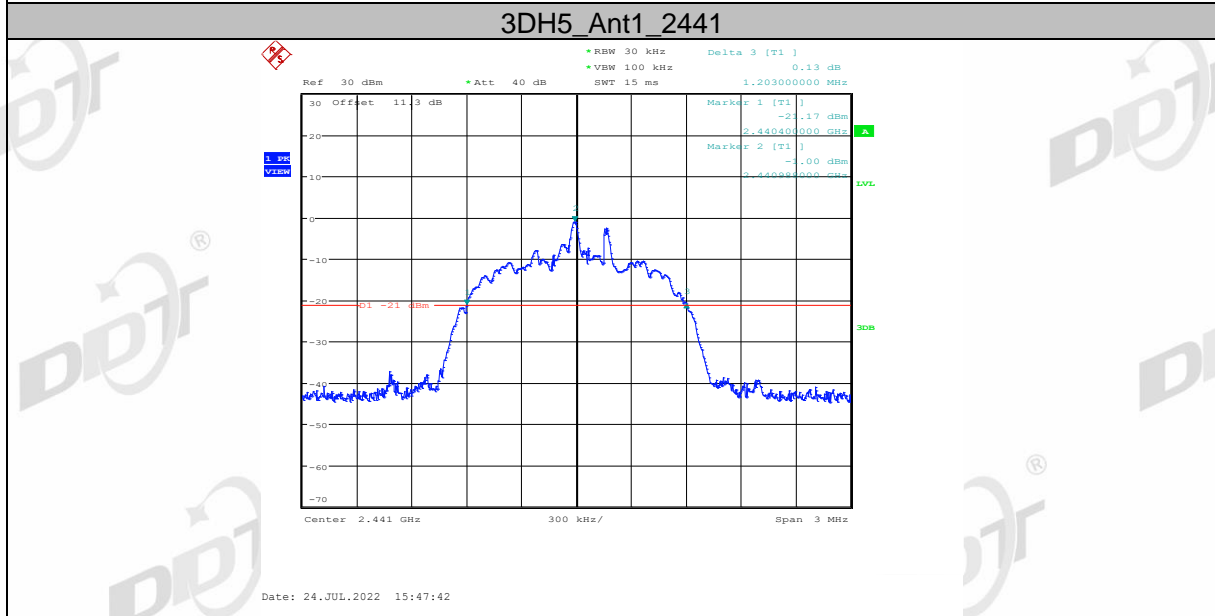
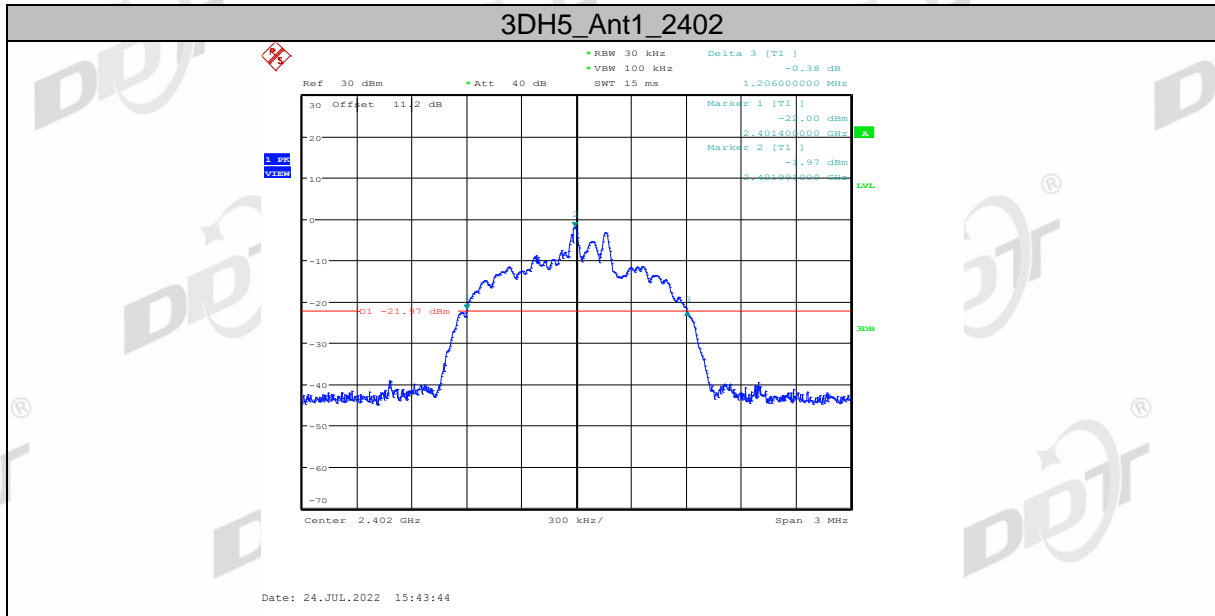
Mode	Freq. (MHz)	20 dB bandwidth Result (MHz)	99% bandwidth Result (MHz)	Verdict
GFSK	2402	1.05	0.966	Pass
	2441	1.05	0.969	Pass
	2480	1.05	0.969	Pass
$\pi/4$ -DQPSK	2402	1.19	1.143	Pass
	2441	1.19	1.140	Pass
	2480	1.23	1.143	Pass
8DPSK	2402	1.21	1.149	Pass
	2441	1.20	1.146	Pass
	2480	1.21	1.149	Pass

5.5. Original test data

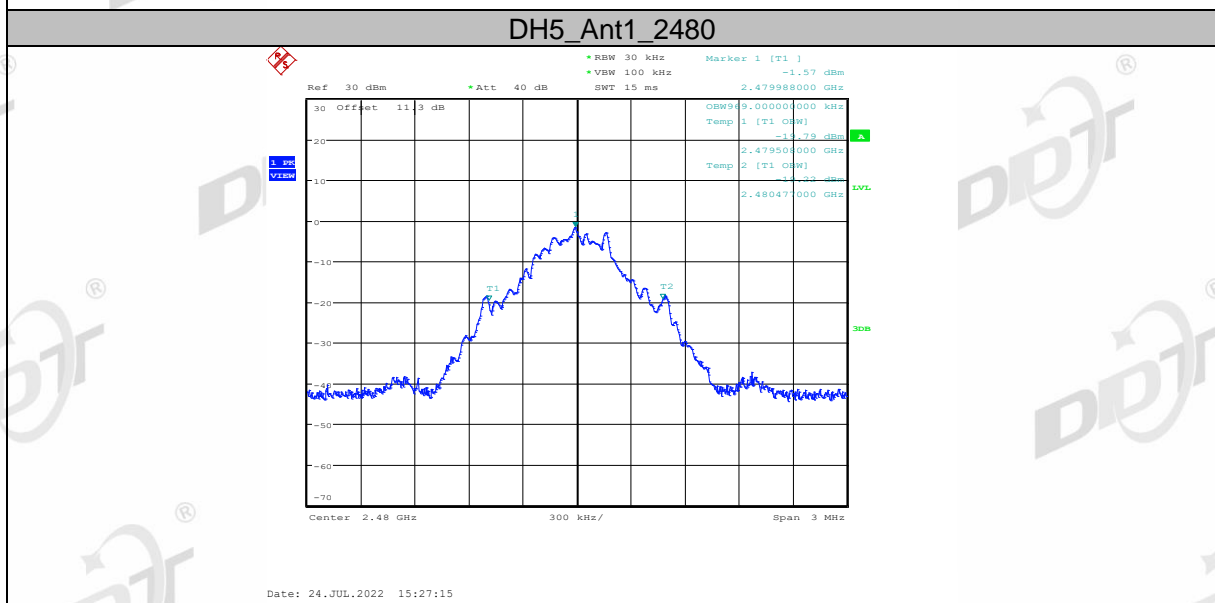
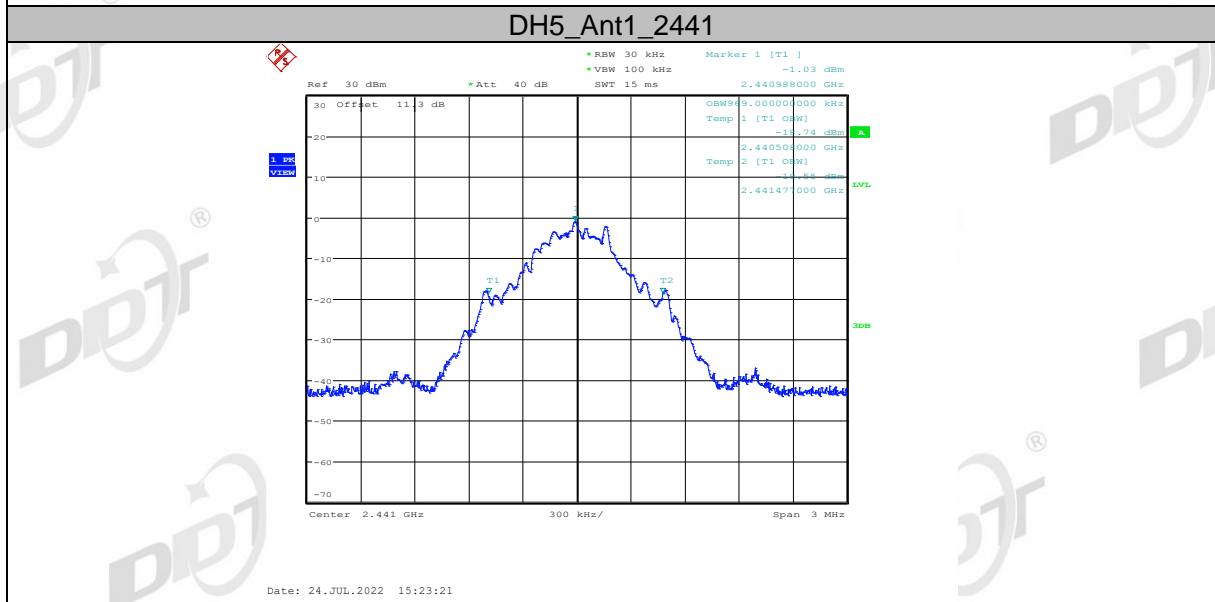
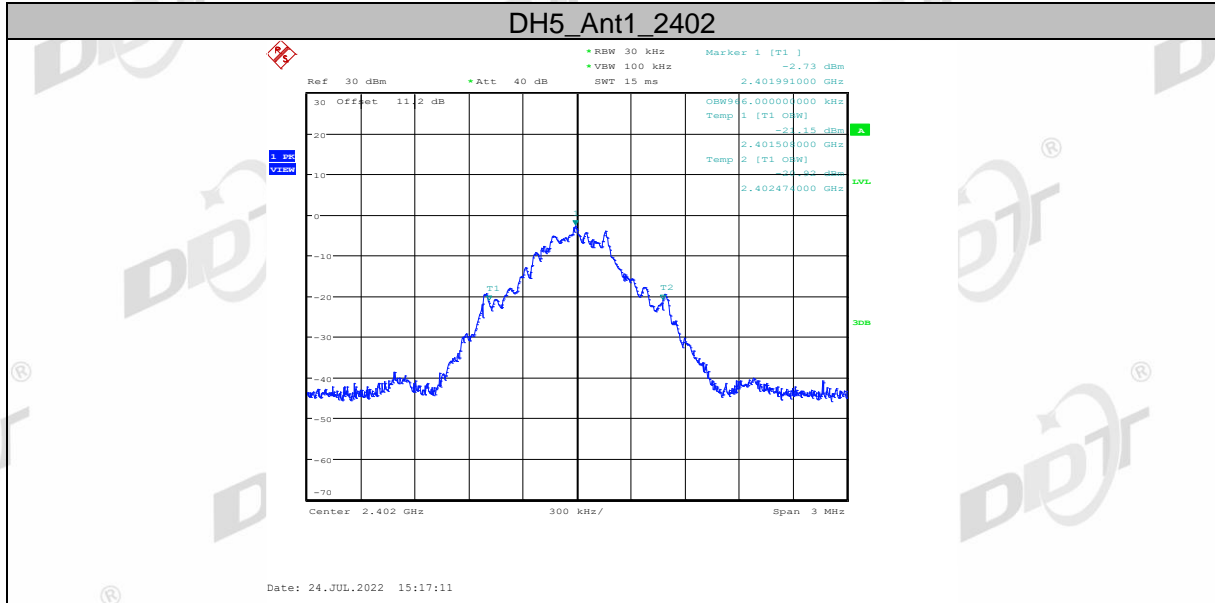
20 dB bandwidth:

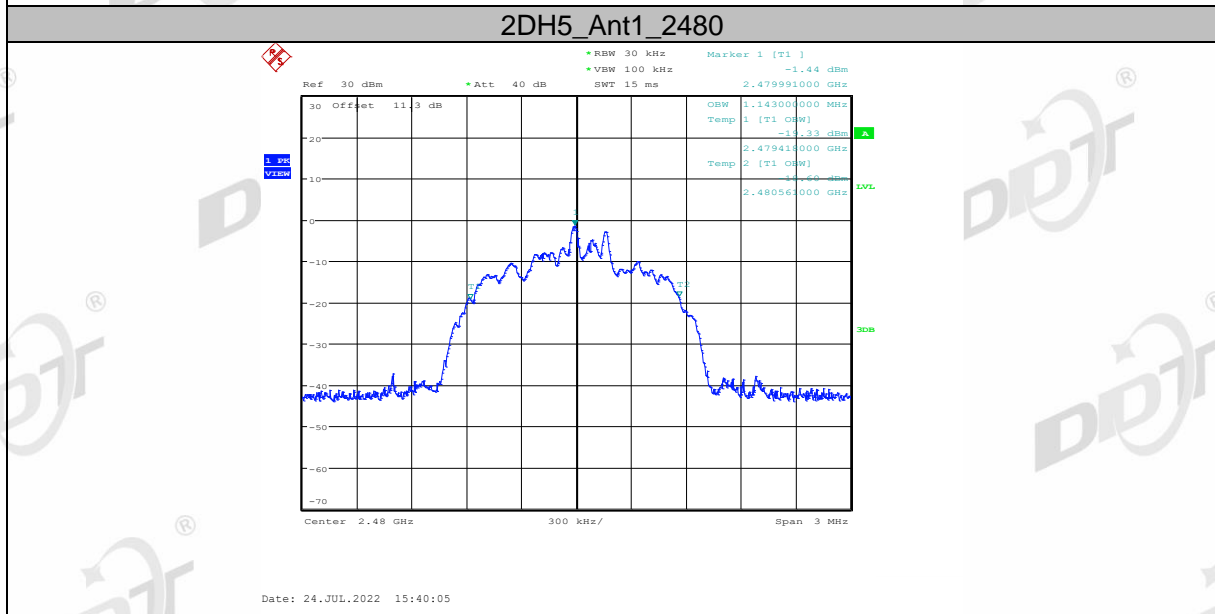
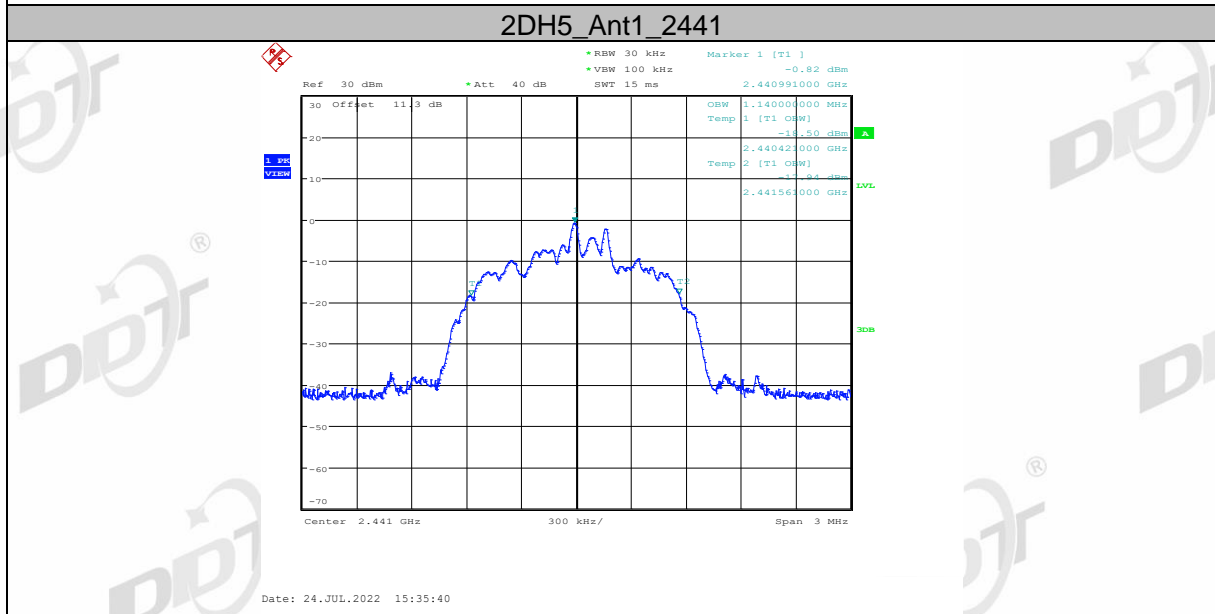
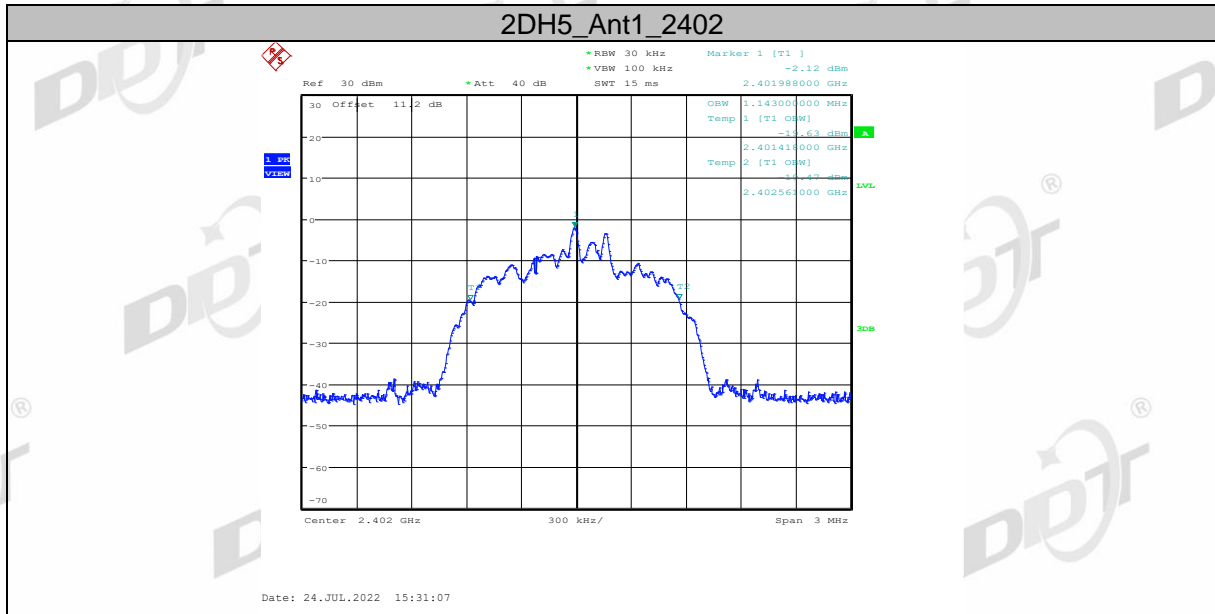


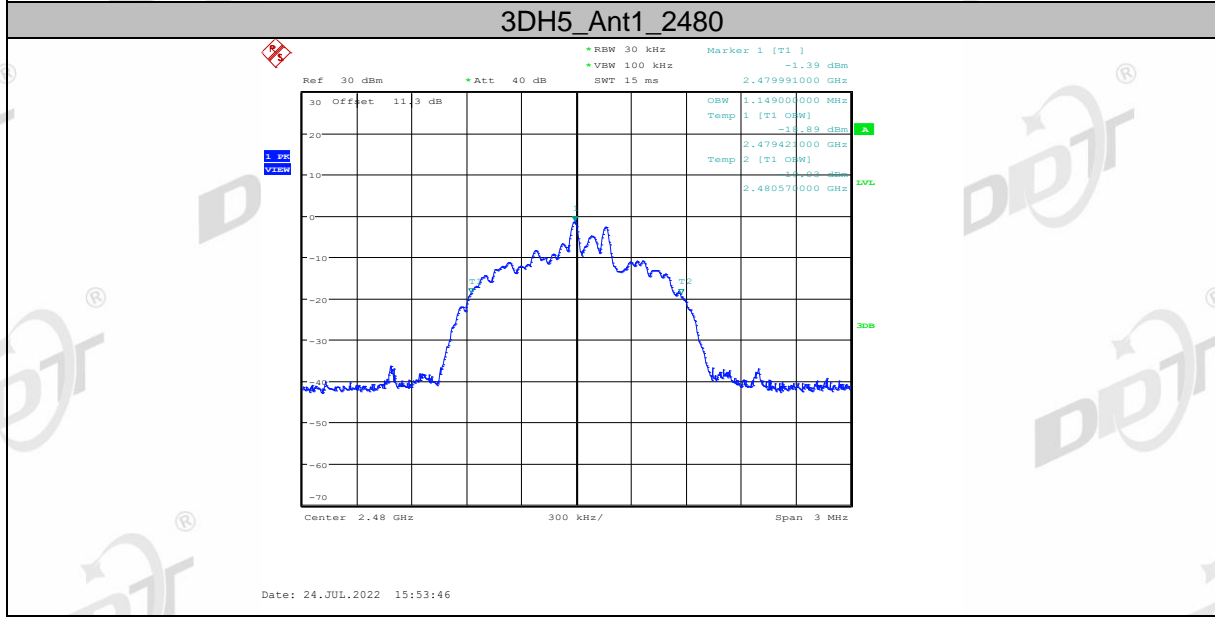
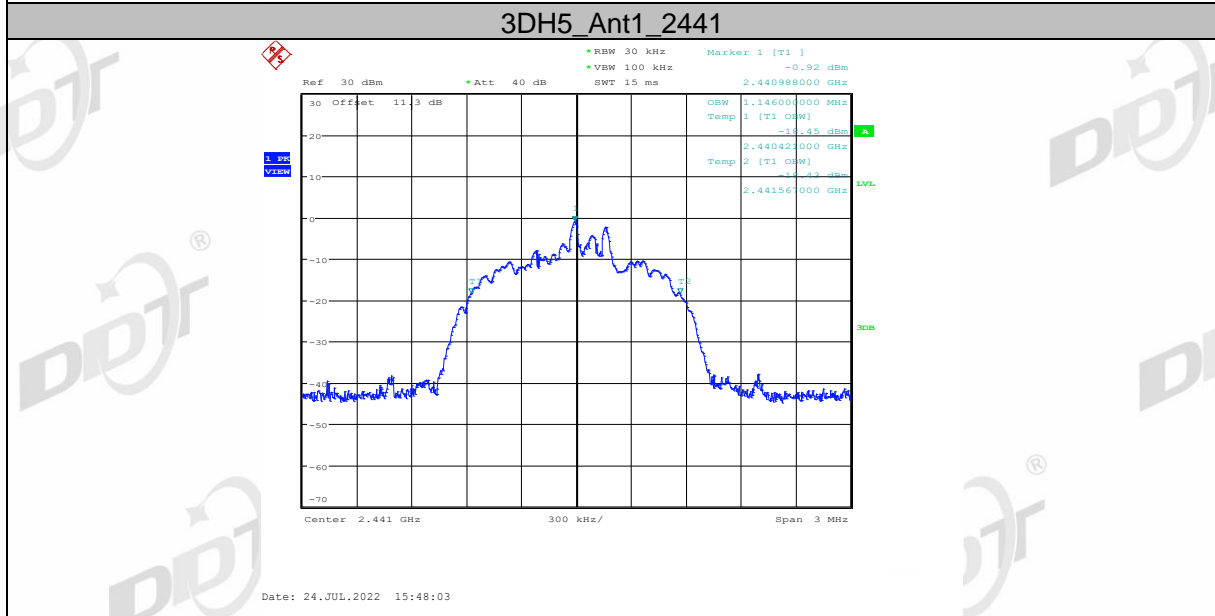
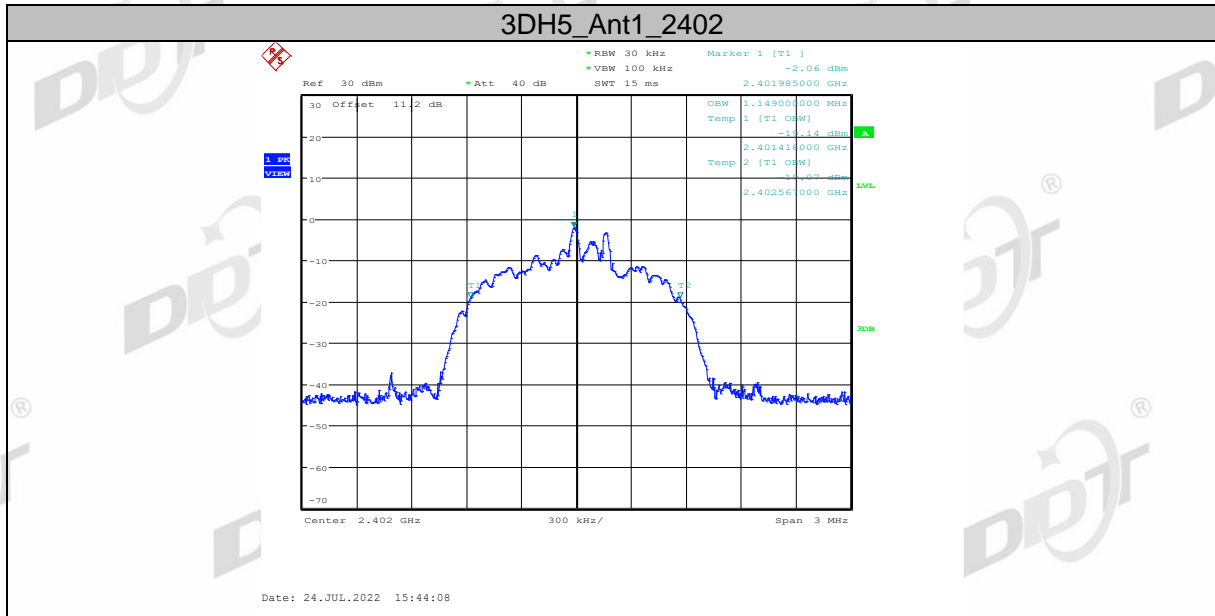




99% bandwidth:







6. Carrier Frequency Separation

6.1. Block diagram of test setup

Same as section 4.1

6.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

Alternatively, 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.

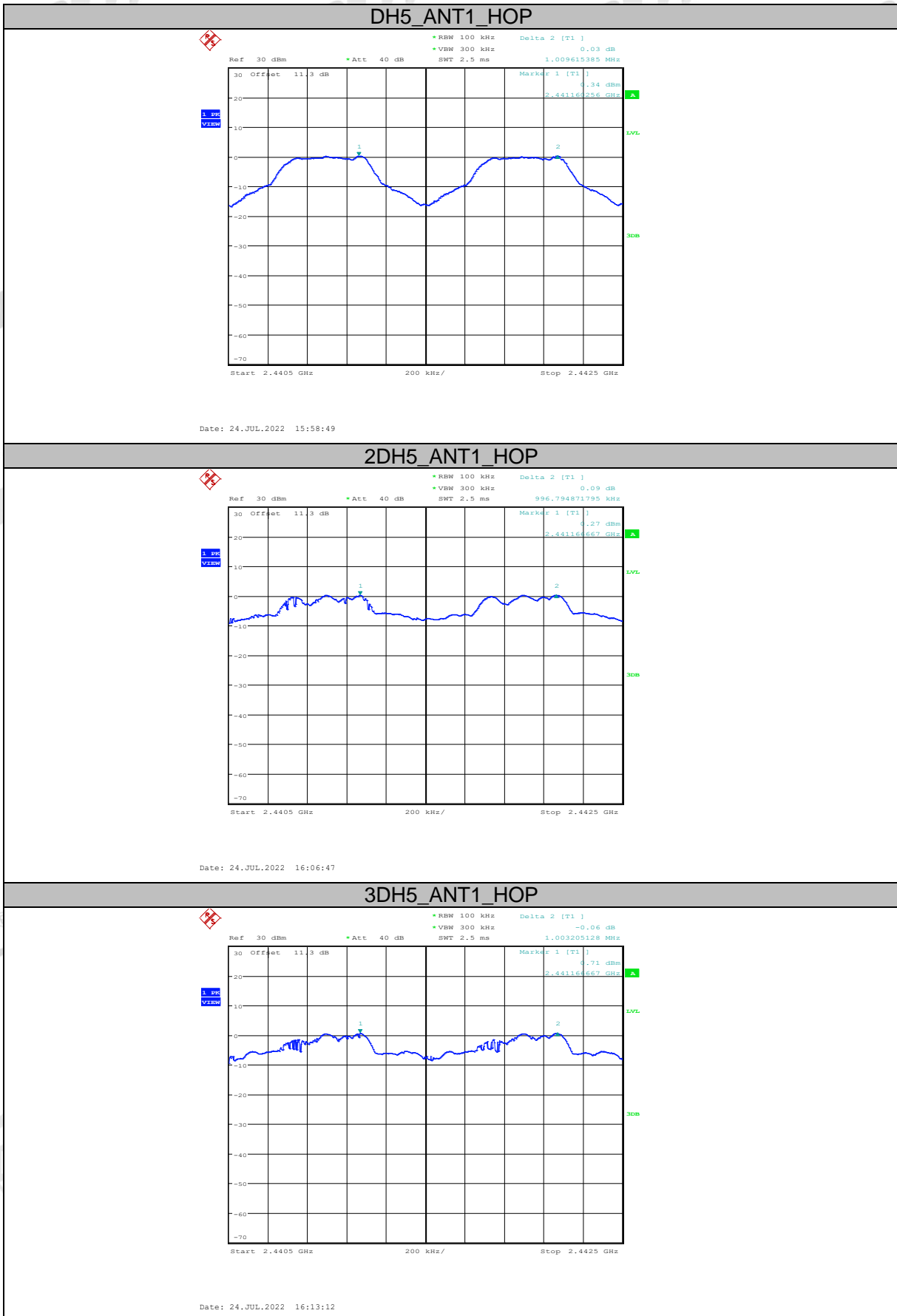
6.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The carrier frequency was measured by spectrum analyzer with 100 kHz RBW and 300 kHz VBW.

6.4. Test result

Mode	Channel separation (MHz)	20dB bandwidth (MHz) (worst case)	Limit (MHz) 2/3 of 20dB bandwidth	Verdict
GFSK	1.010	1.050	≥0.700	Pass
$\pi/4$ -DQPSK	0.997	1.230	≥0.820	Pass
8DPSK	1.003	1.210	≥0.807	Pass

6.5. Original test data



7. Number of Hopping Channel

7.1. Block diagram of test setup

Same as section 4.1

7.2. Limits

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

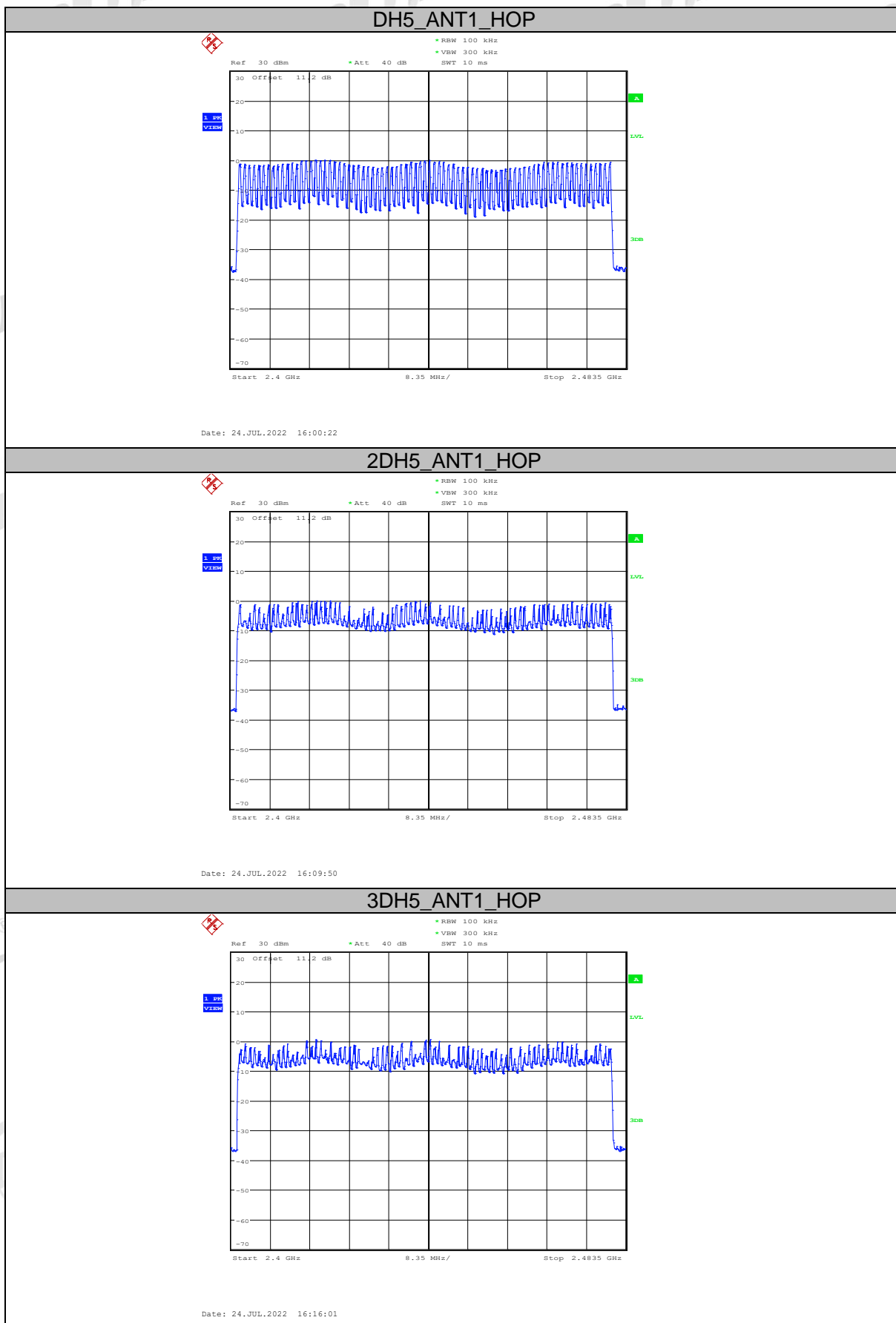
7.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The number of hopping channels was measured by spectrum analyzer with 100 kHz RBW and 300 kHz VBW.

7.4. Test result

Mode	Number of hopping channels	Limit	Verdict
GFSK	79	>15	Pass
$\pi/4$ -DQPSK	79	>15	Pass
8DPSK	79	>15	Pass

7.5. Original test data



8. Dwell Time

8.1. Block diagram of test setup

Same as section 4.1

8.2. Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.3. Test procedure

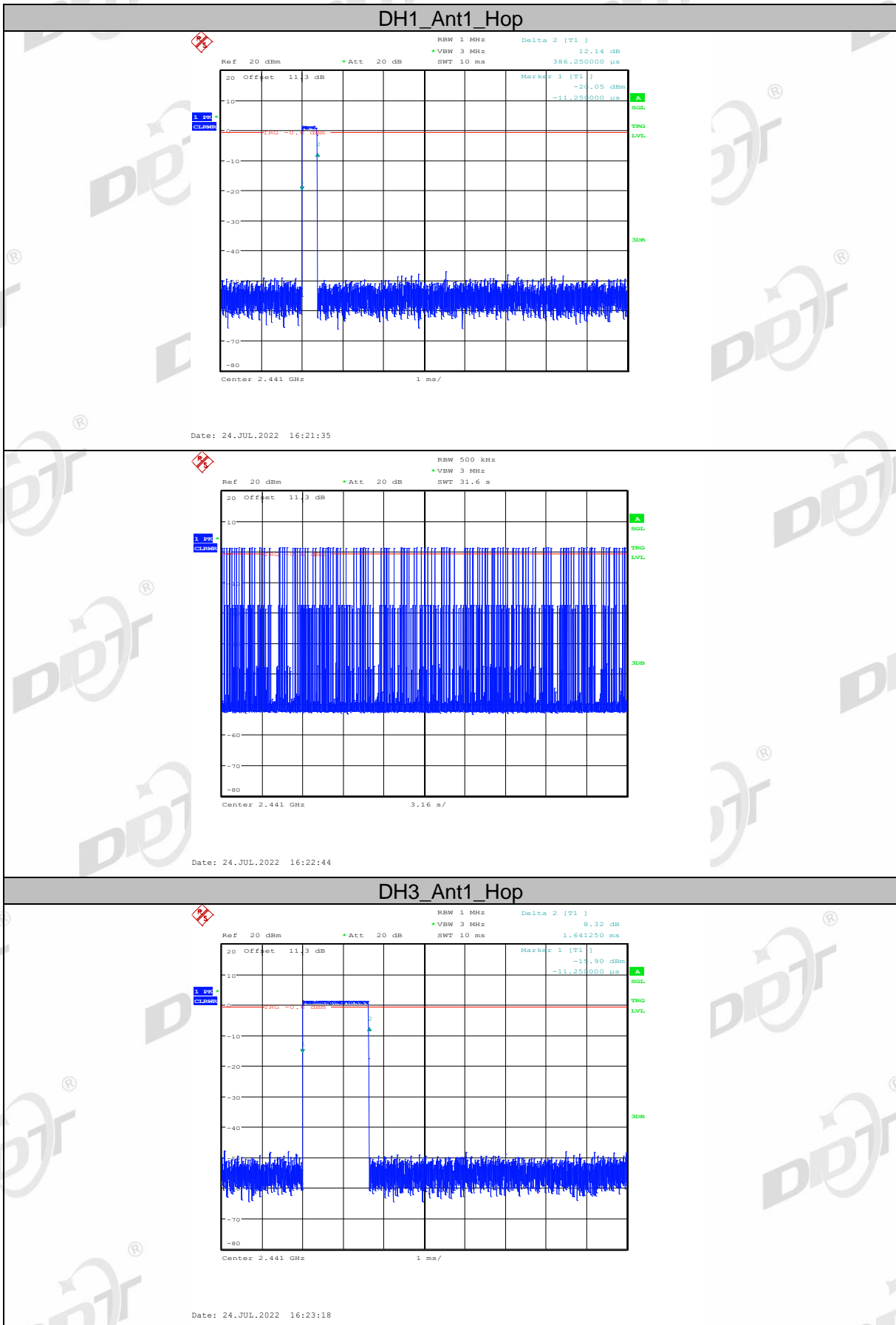
- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$
- (3) Measure the hopping number and on time of each pulse with spectrum analyzer in zero span set, and calculate dwell time with formula $\text{Dwell time} = \text{total hops} * \text{pulse's on time}$.

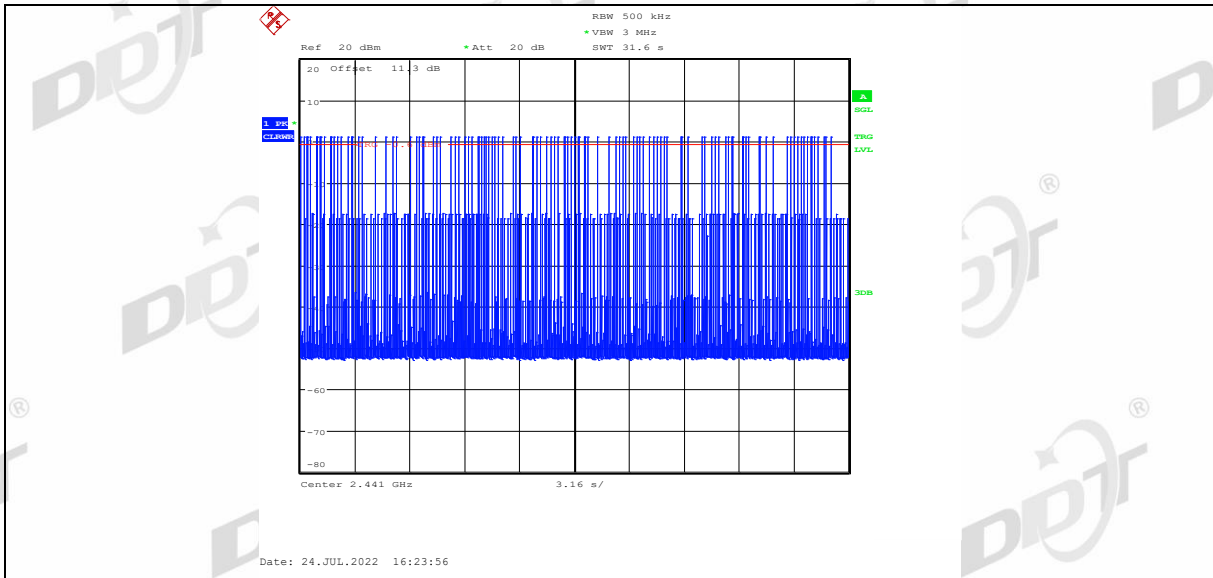
8.4. Test result

Mode	Dwell time (s)	Pulse's on time (ms)	Total hops	Limit	Verdict
DH1	0.060	0.39	155	<400ms	Pass
DH3	0.189	1.64	115	<400ms	Pass
DH5	0.199	2.89	69	<400ms	Pass
2DH1	0.066	0.40	168	<400ms	Pass
2DH3	0.189	1.65	115	<400ms	Pass
2DH5	0.200	2.90	69	<400ms	Pass
3DH1	0.066	0.40	166	<400ms	Pass
3DH3	0.168	1.65	102	<400ms	Pass
3DH5	0.217	2.90	75	<400ms	Pass

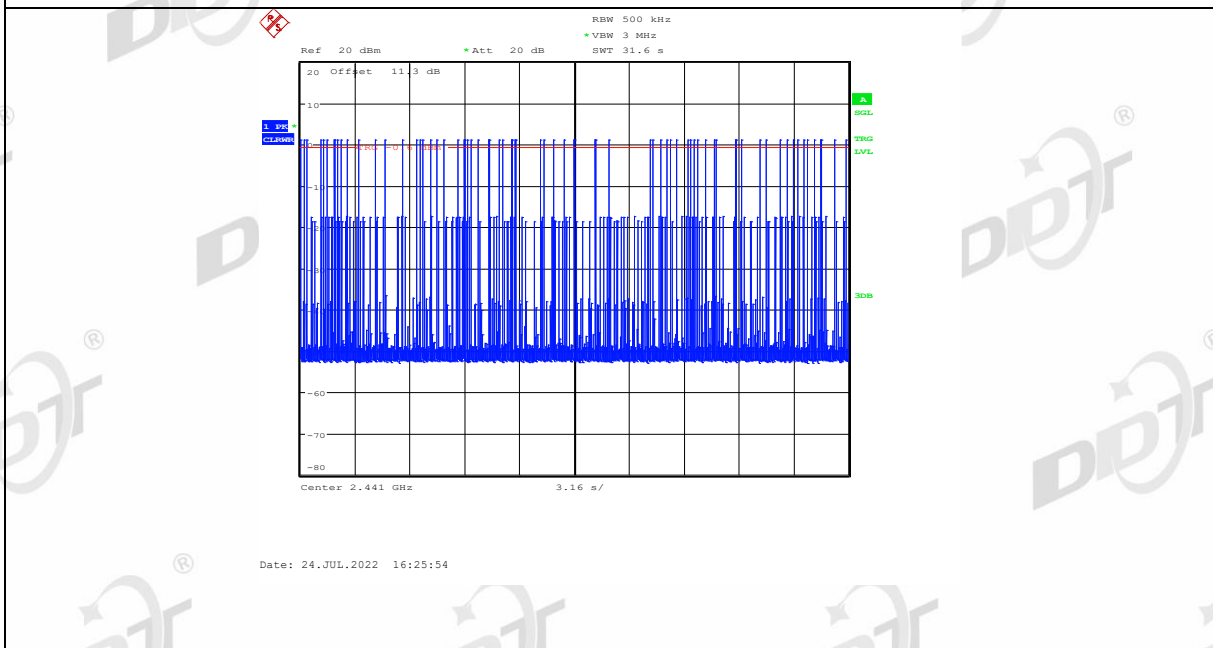
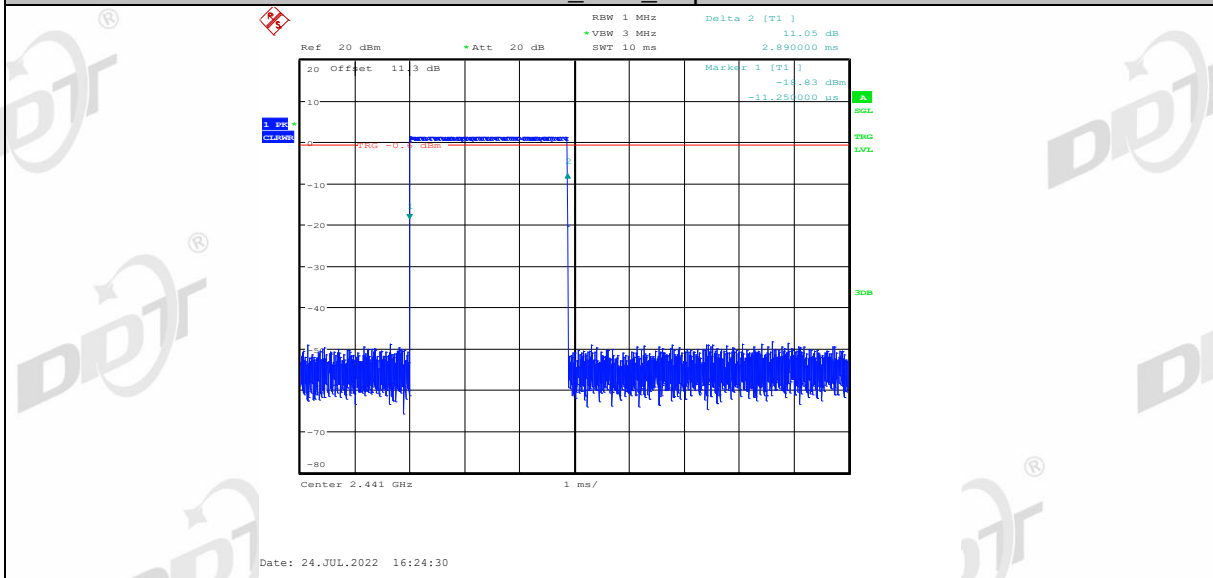
Note: $\text{Dwell time} = \text{total hops} * \text{pulse's on time}$.

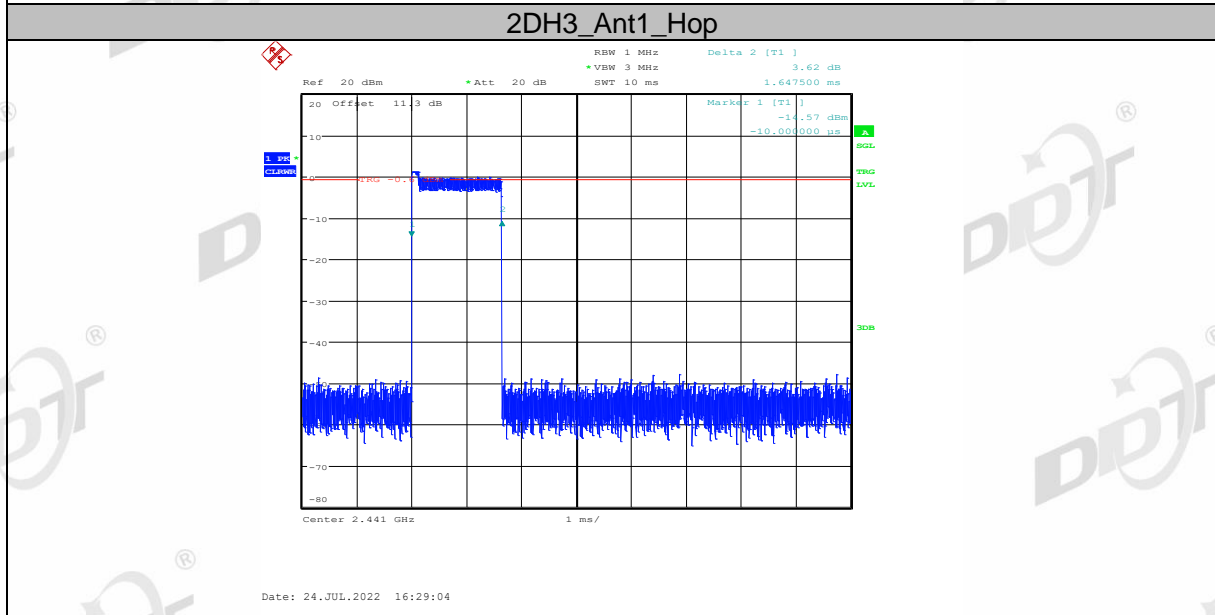
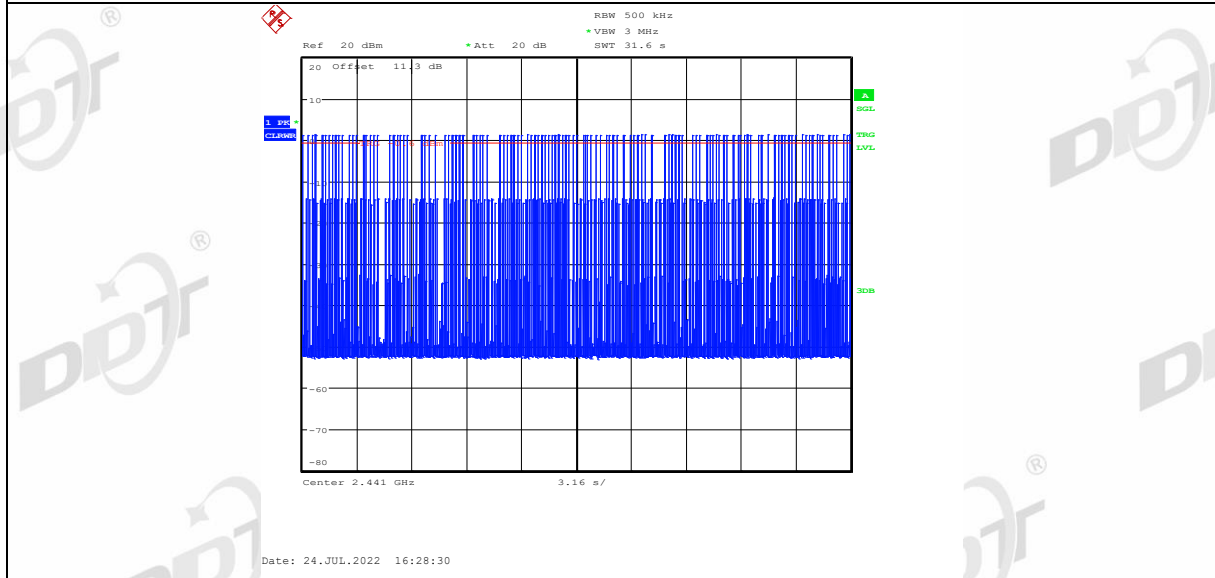
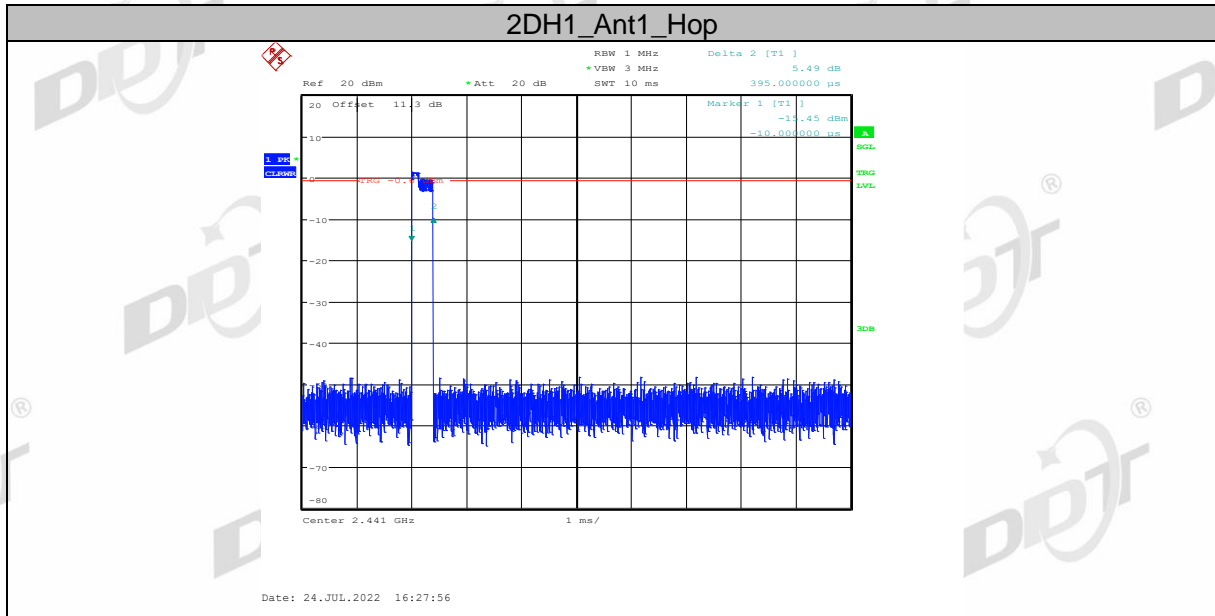
8.5. Original test data

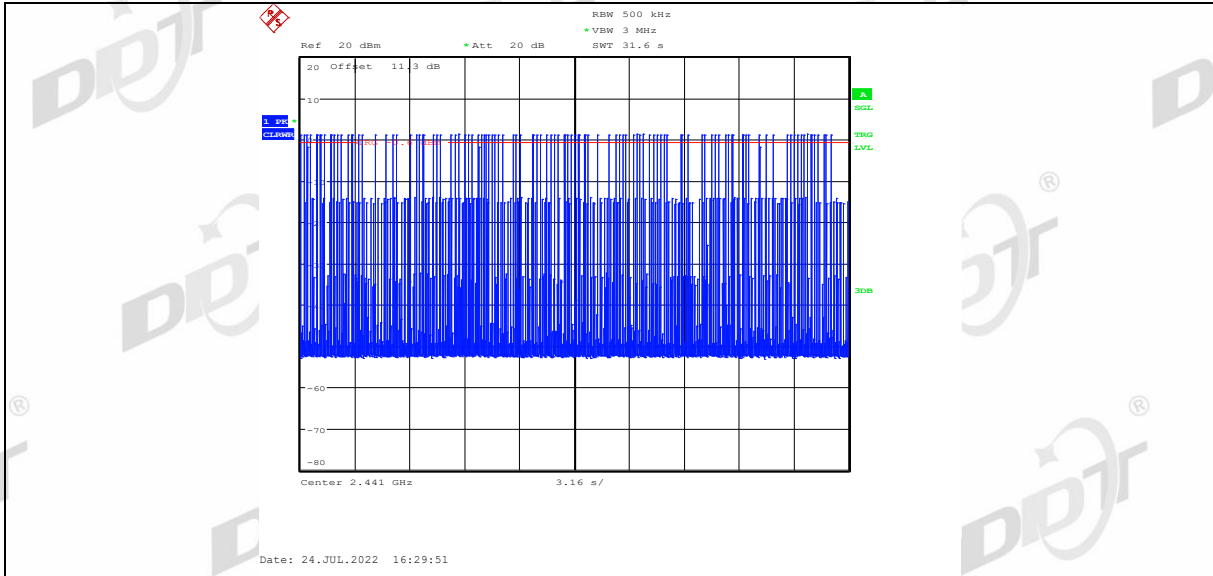




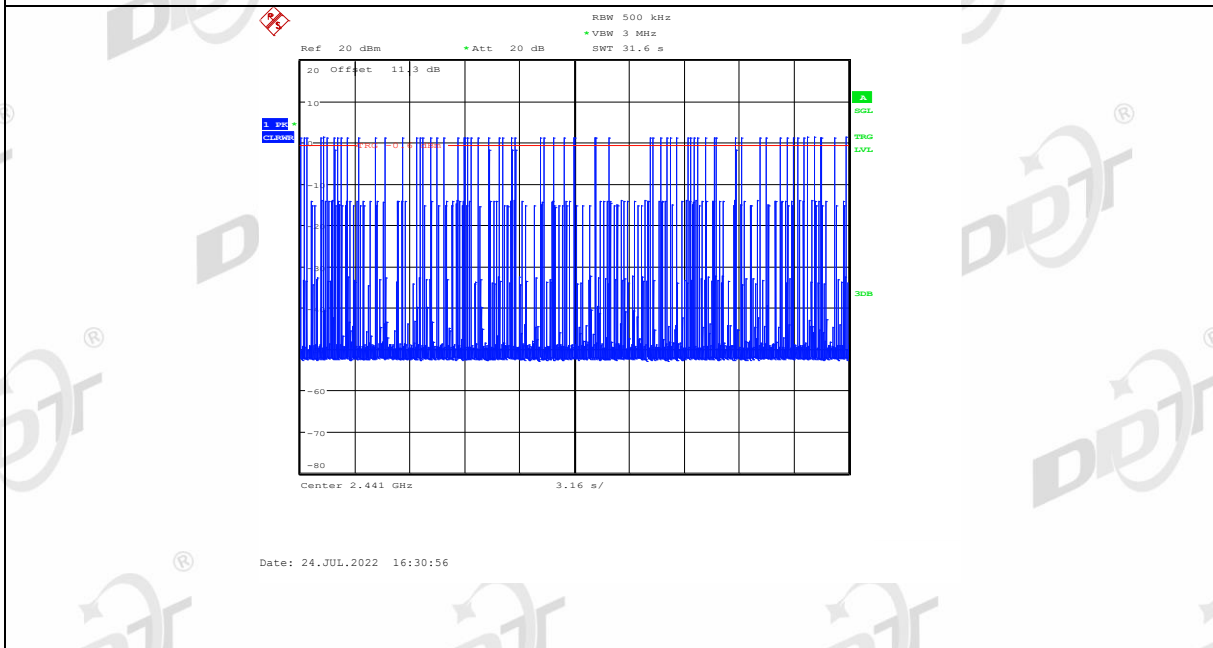
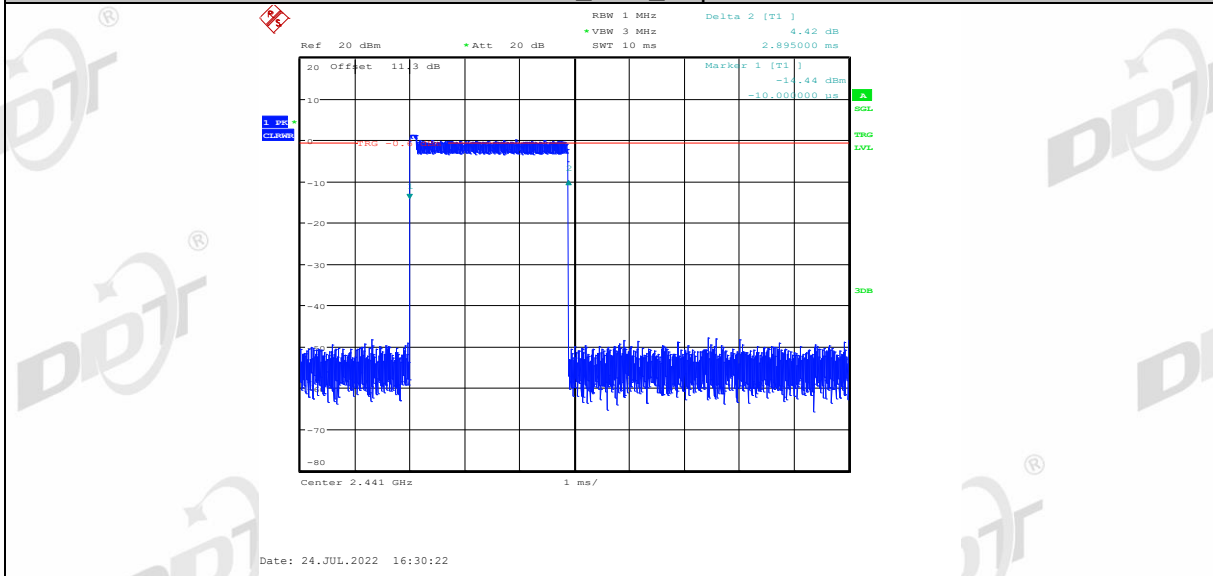
DH5_Ant1_Hop

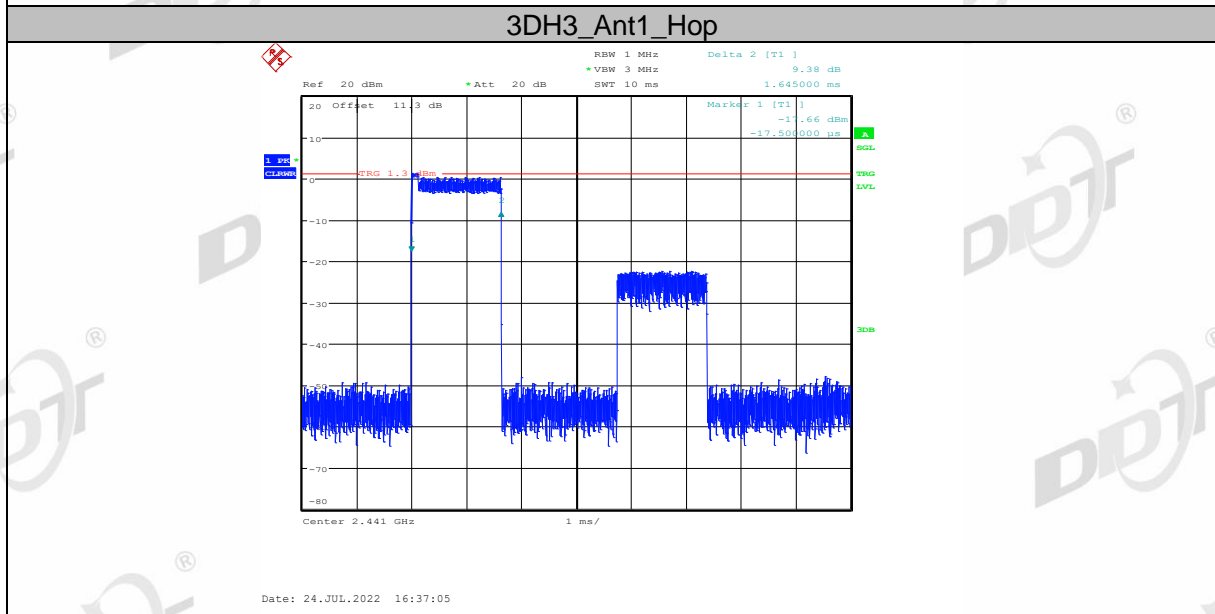
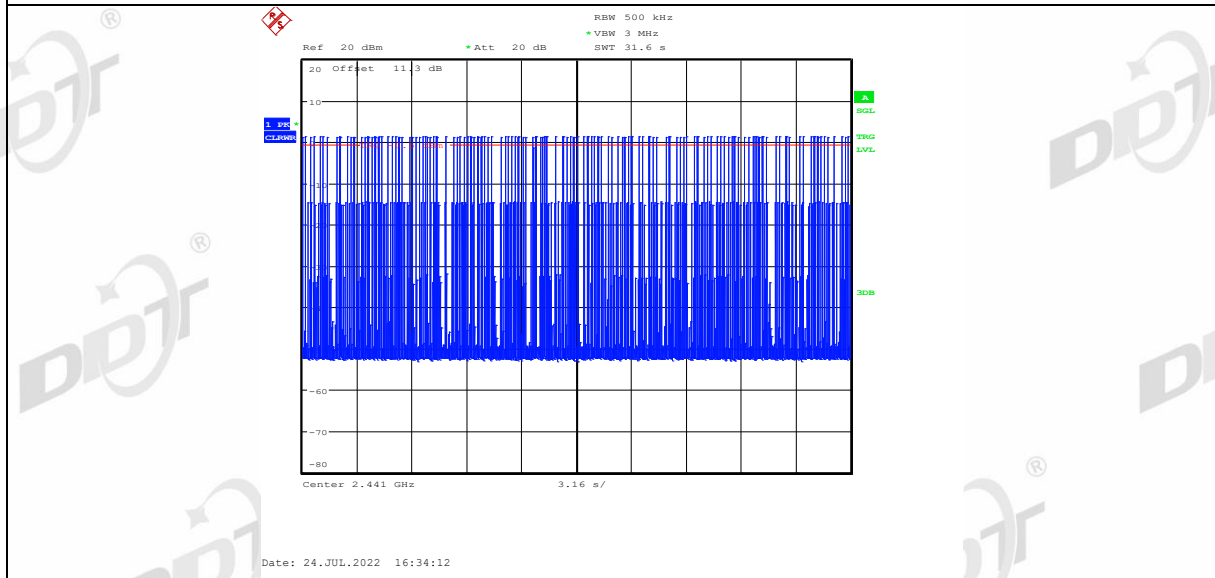
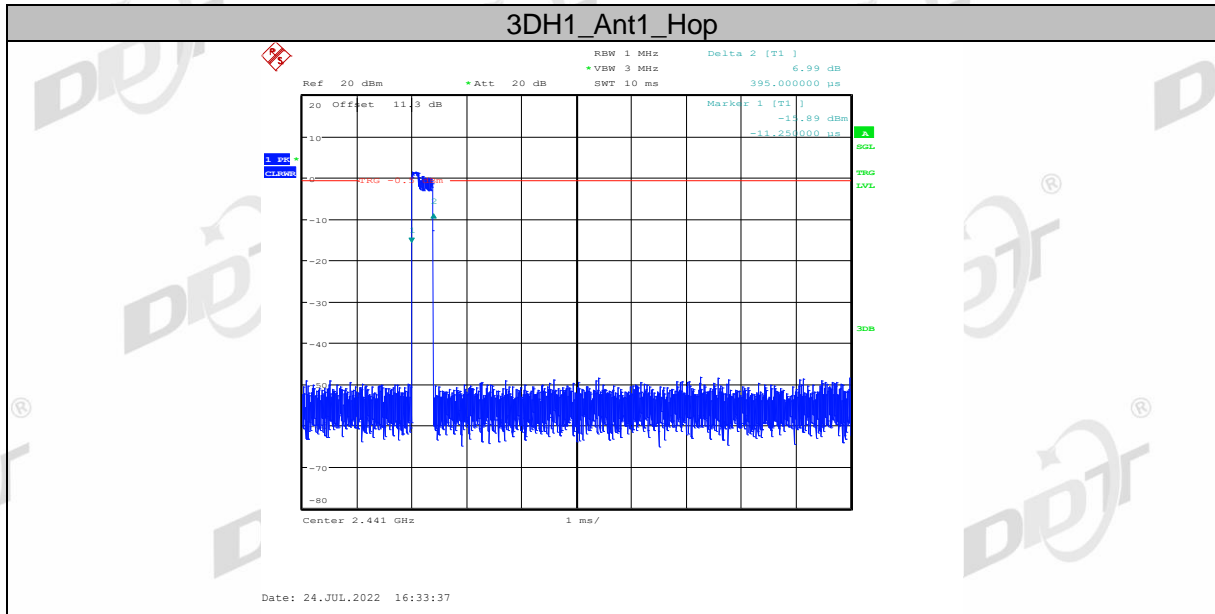


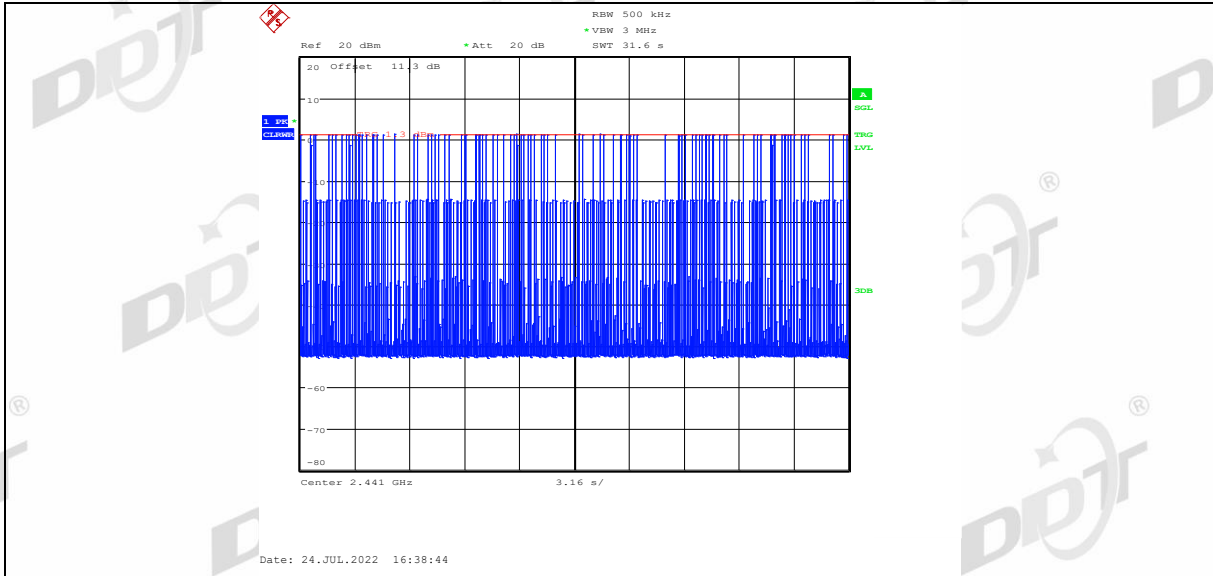




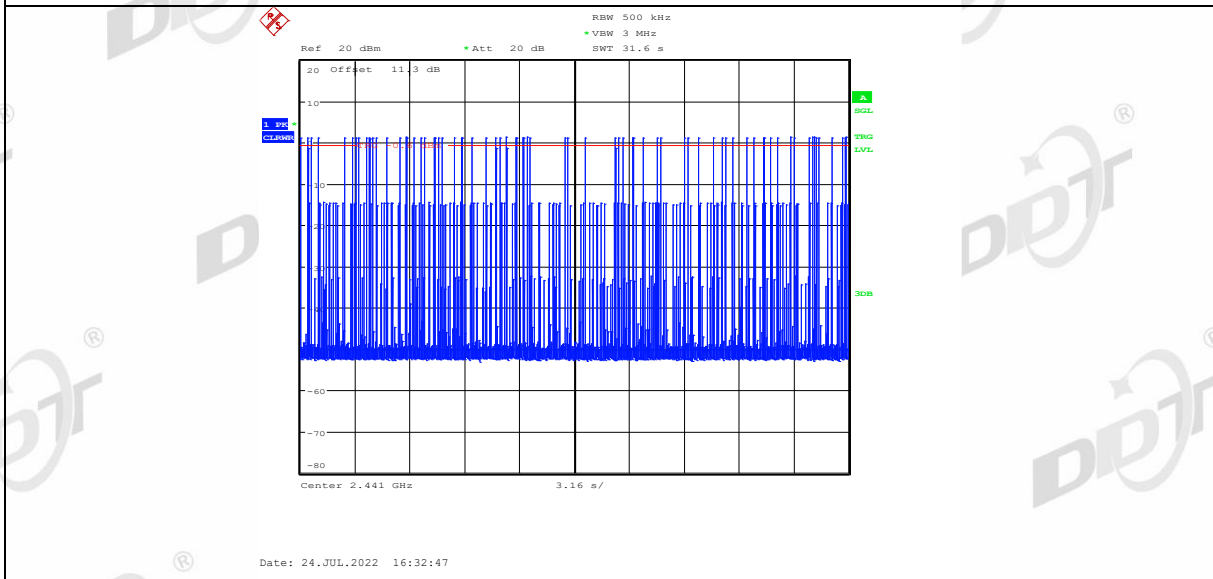
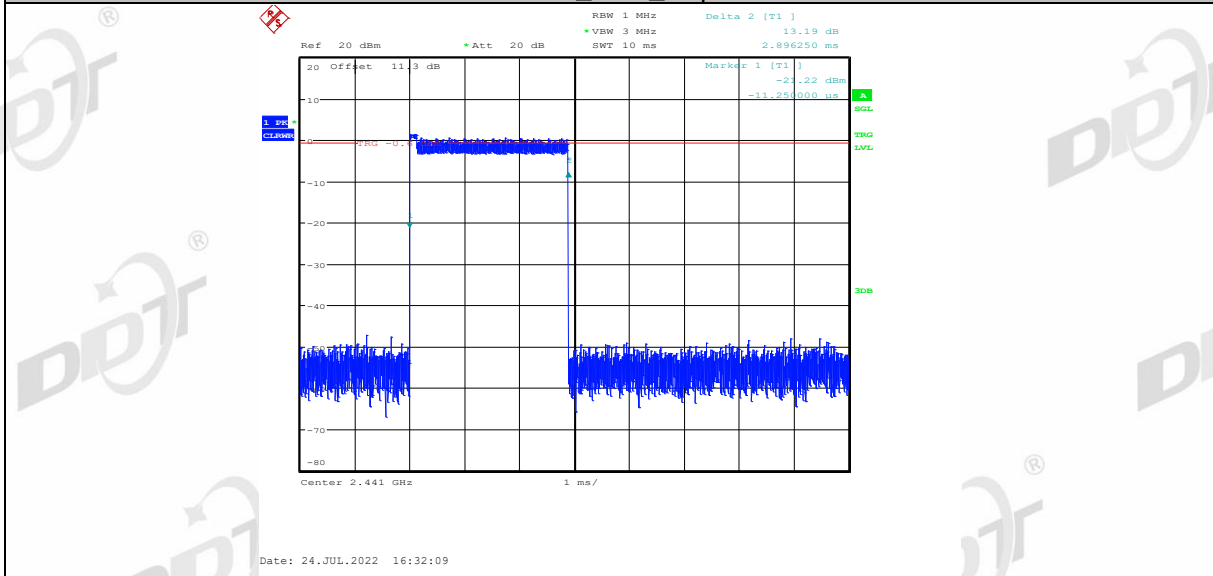
2DH5_Ant1_Hop







3DH5_Ant1_Hop



9. Band Edge Compliance (Conducted Method)

9.1. Block diagram of test setup

Same as section 4.1

9.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

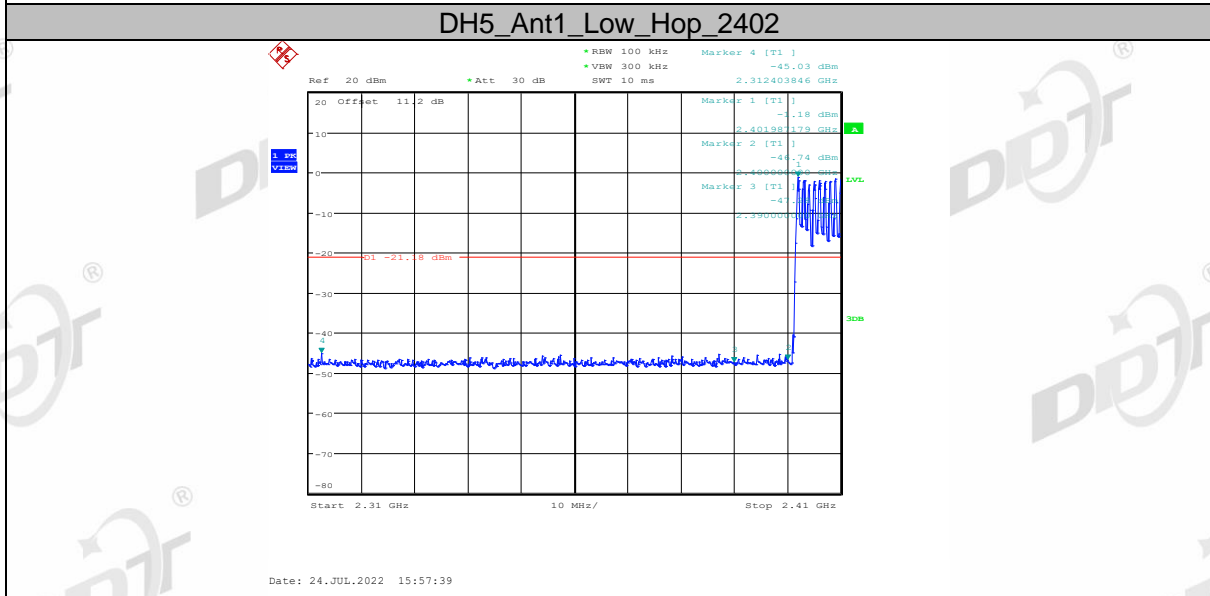
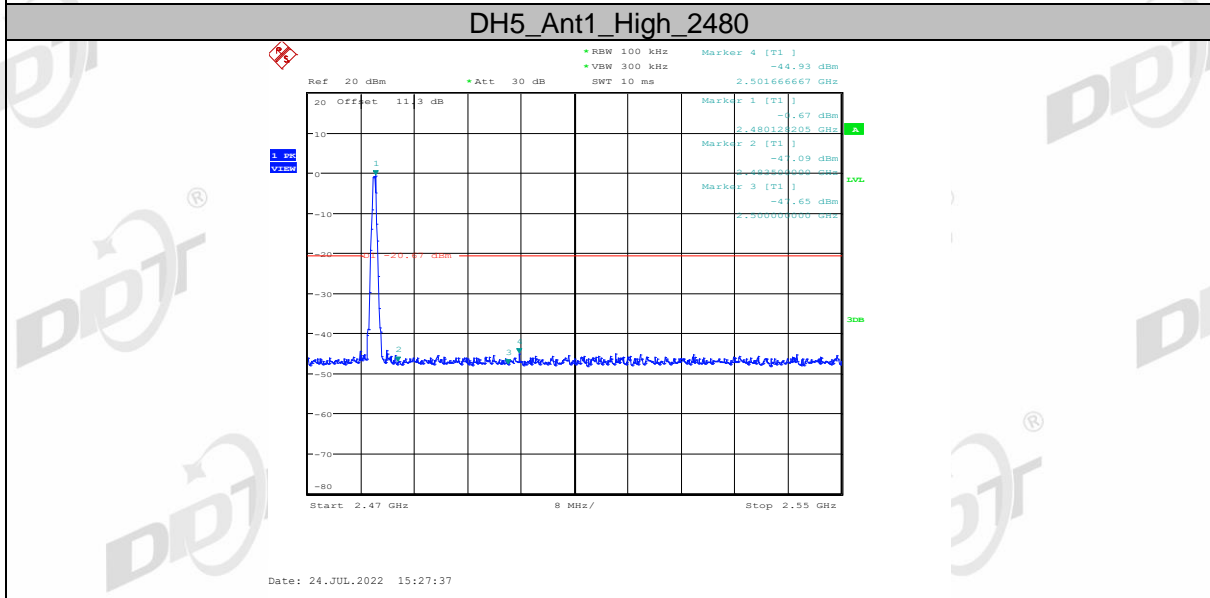
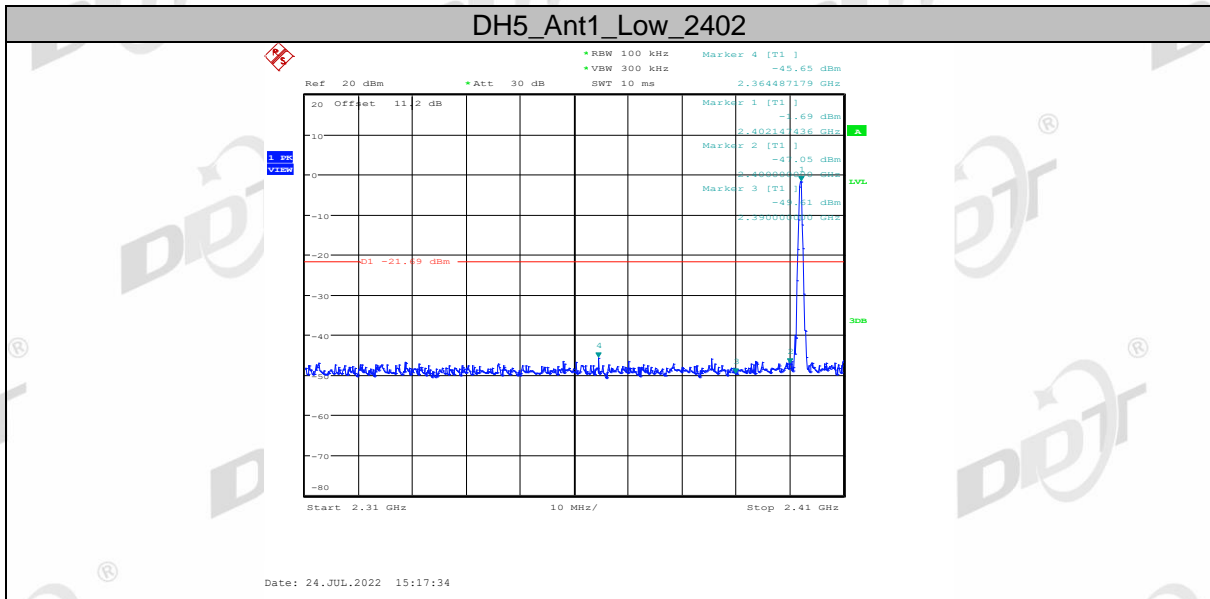
9.3. Test procedure

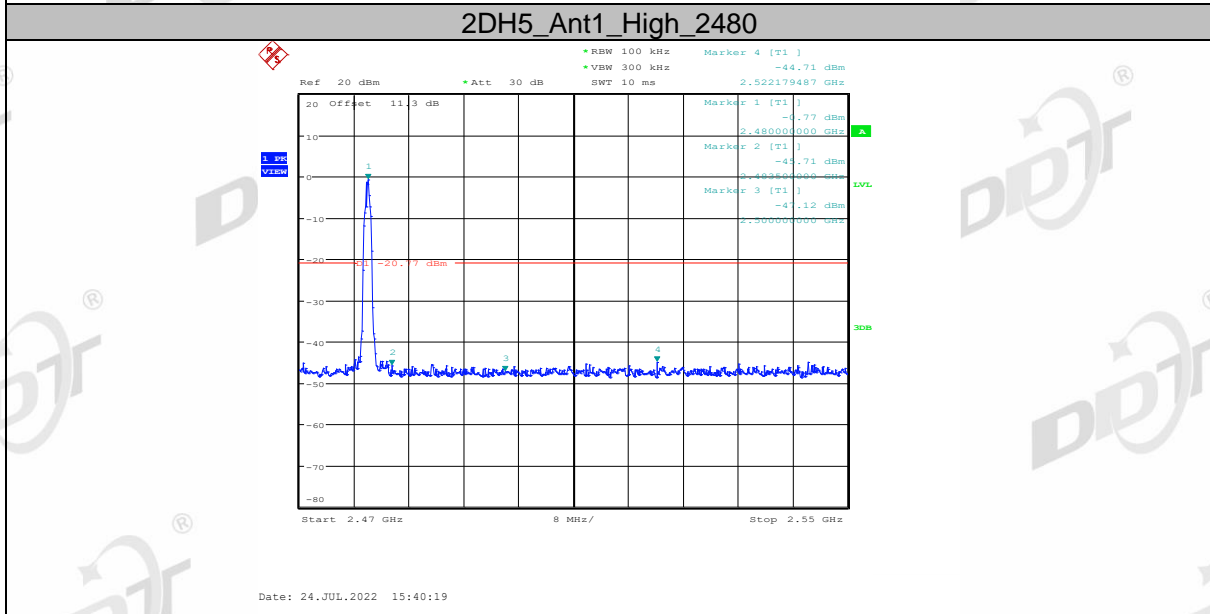
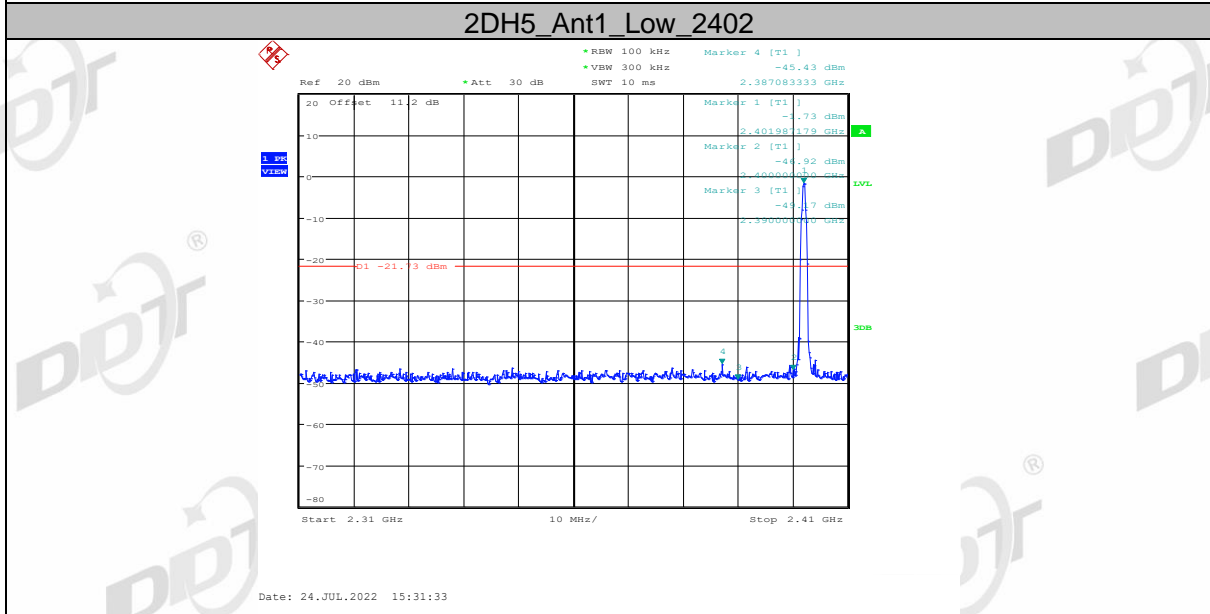
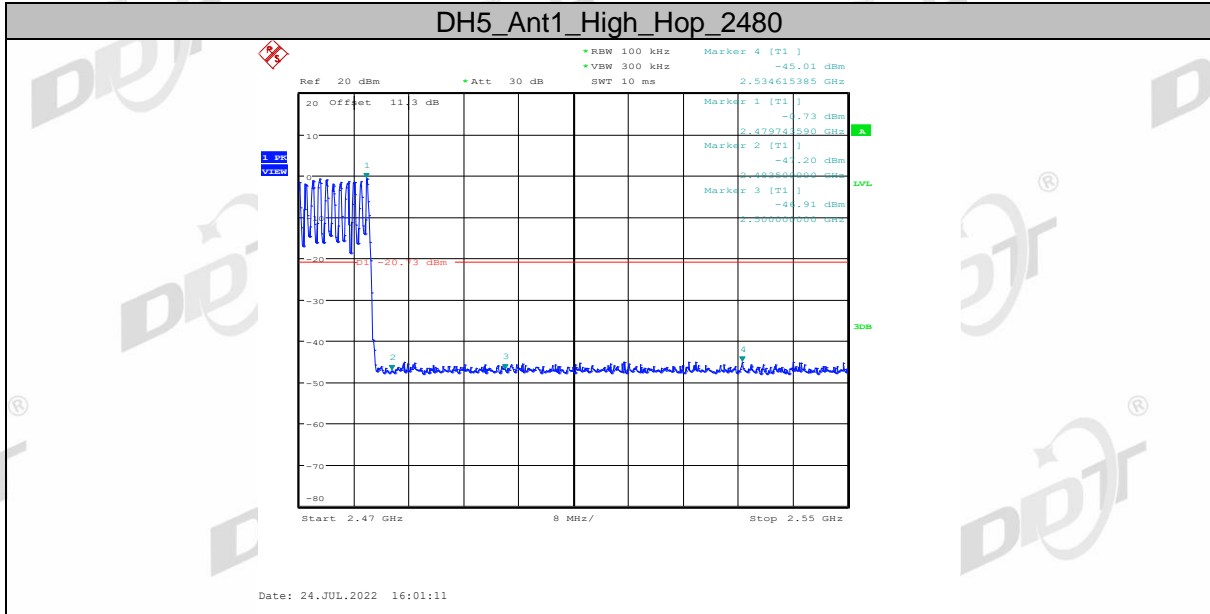
- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the EUT to the lowest frequency channel, highest frequency channel and hopping on mode.
- (3) Frequency range from 2310 MHz to 2410 MHz and 2470 MHz to 2550 MHz.
- (4) Attenuation: Auto (at least 10 dB preferred), Sweep time: Auto
- (5) Resolution bandwidth: 100 kHz, Video bandwidth: 300 kHz.
- (6) Detector: Peak.
- (7) Trace: Max-hold.
- (8) Allow the trace to stabilize.
- (9) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level and determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

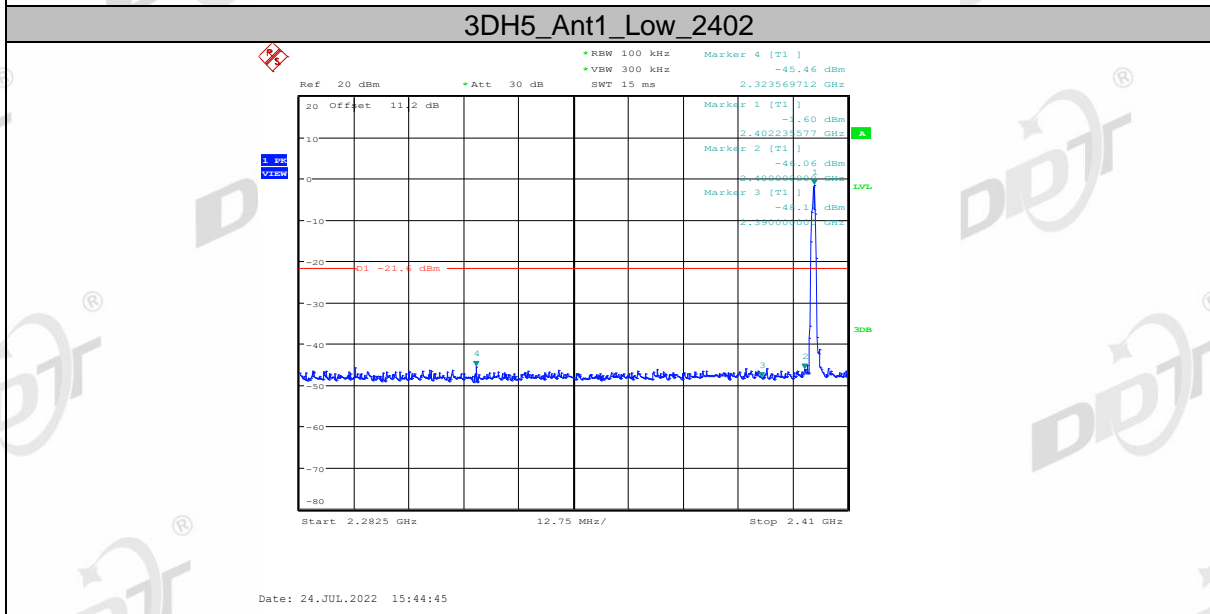
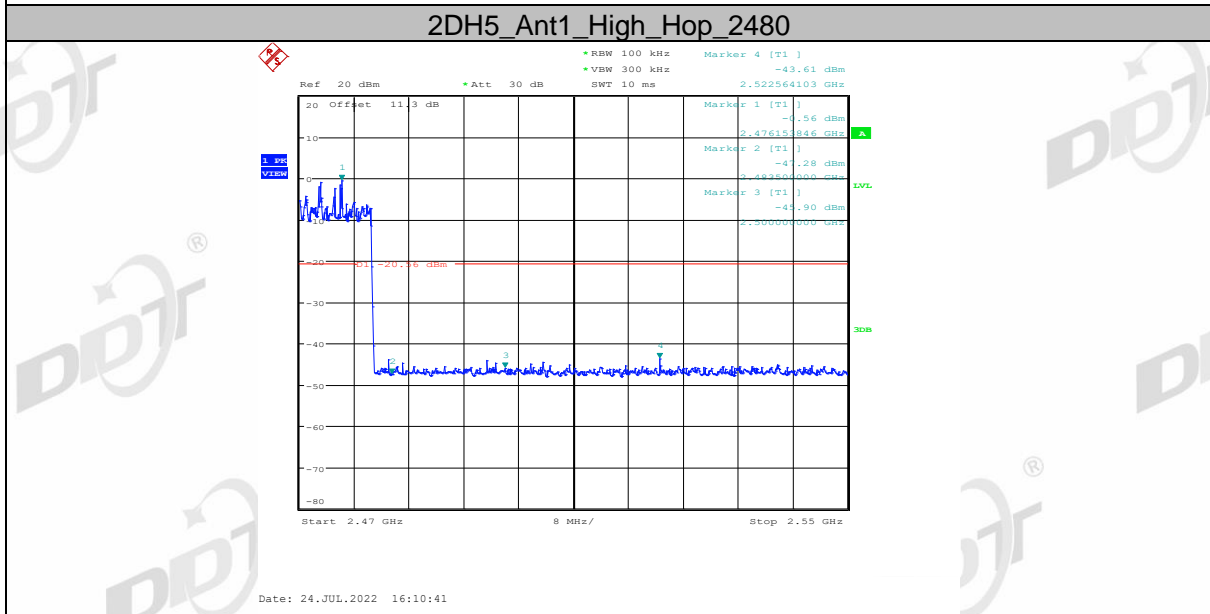
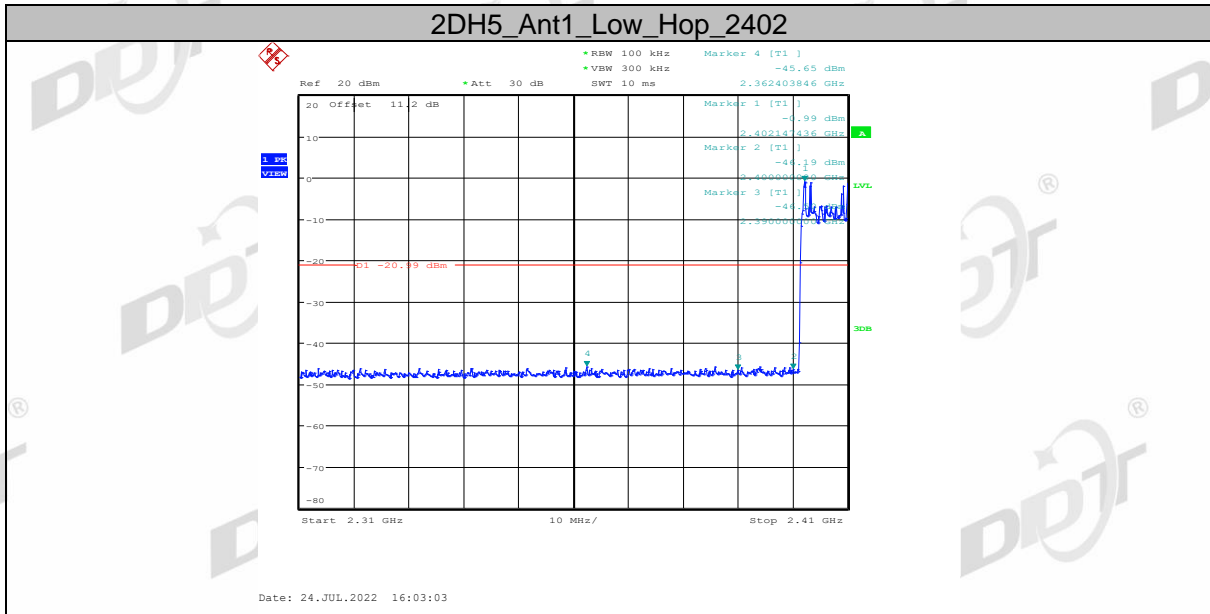
9.4. Test result

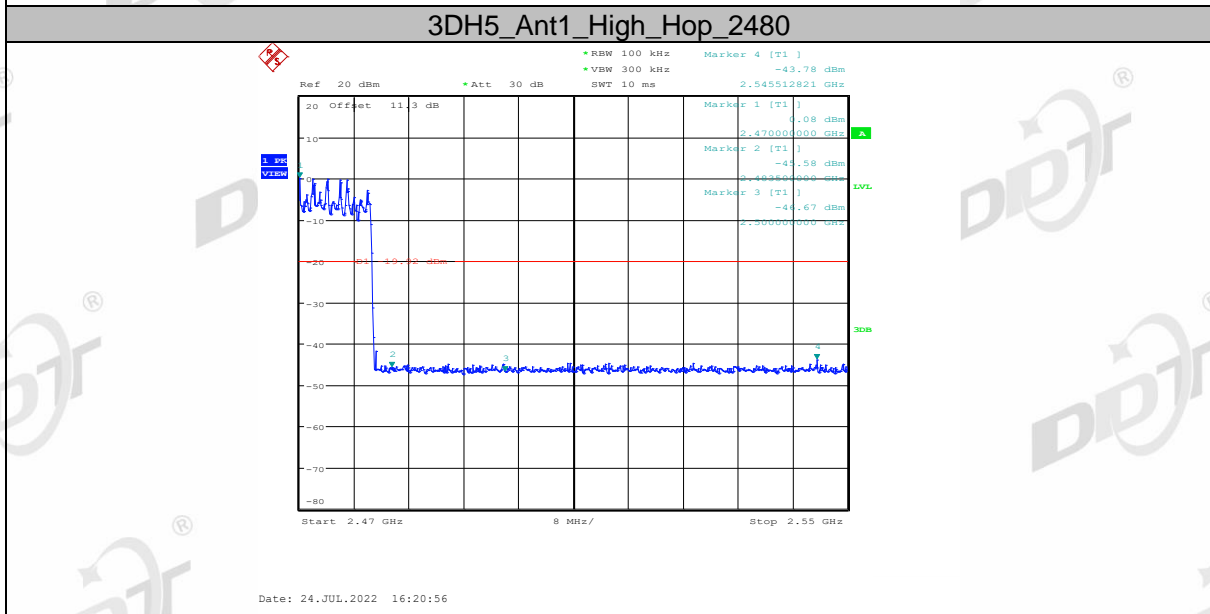
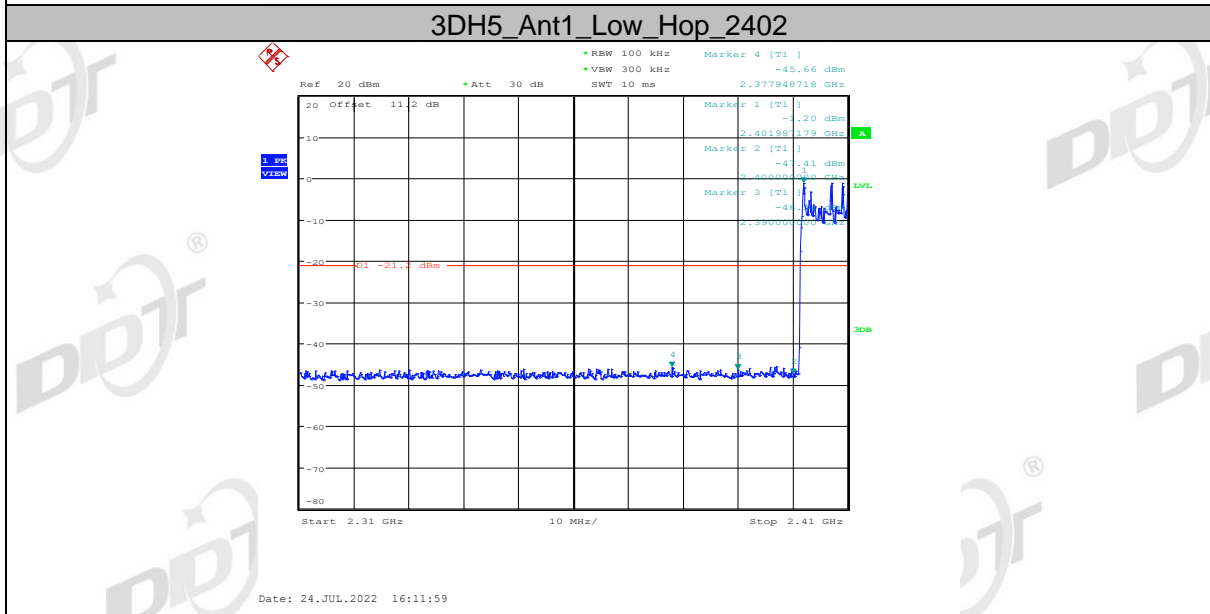
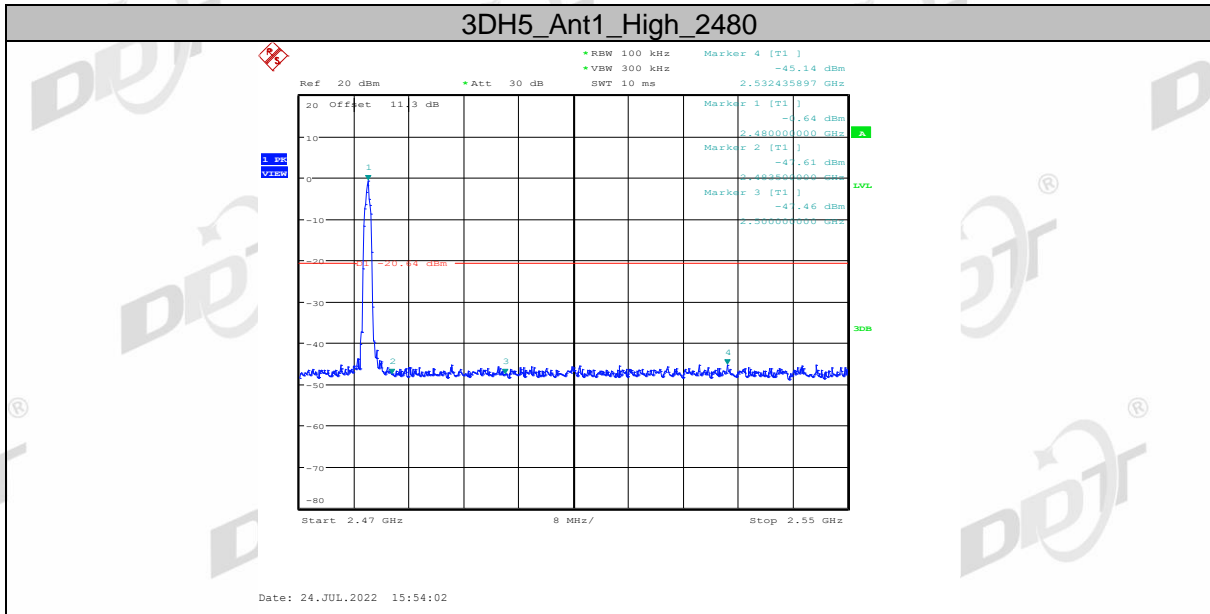
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass

9.5. Original test data





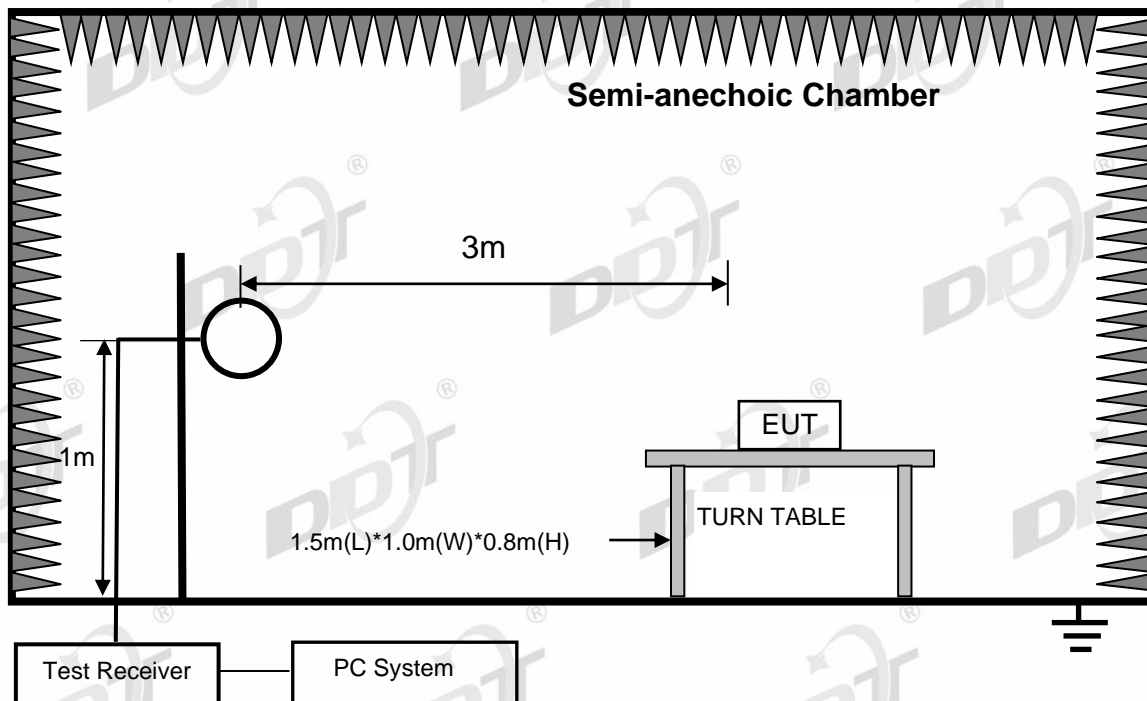




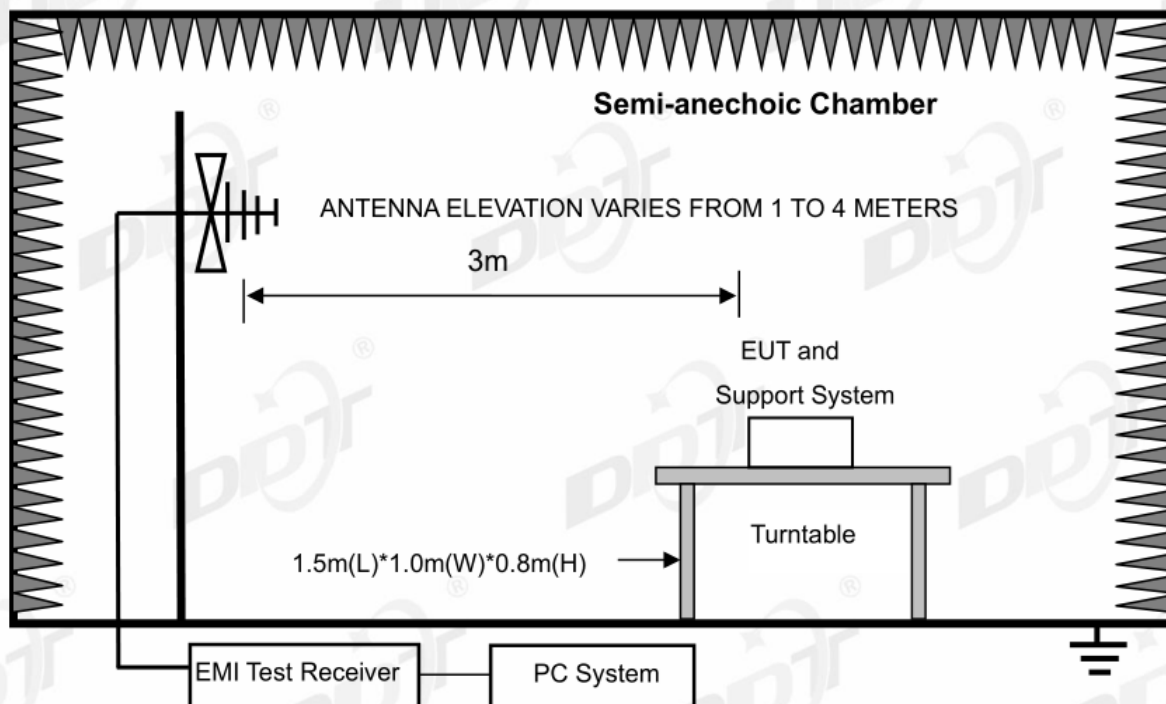
10. Radiated Emission

10.1. Block diagram of test setup

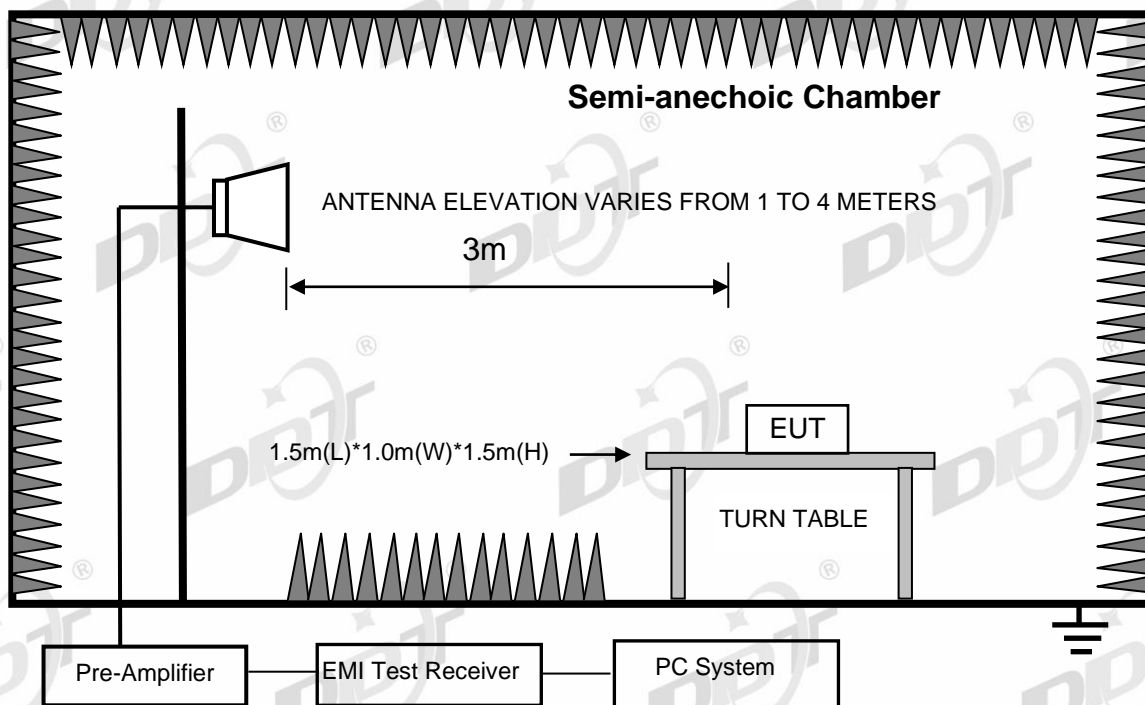
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

10.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit.

Frequency (MHz)	Measurement distance (meters)	Field strength limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{kHz})$	$67.6-20\log(\text{F})$
0.490 ~ 1.705	30	$24000/\text{F}(\text{kHz})$	$87.6-20\log(\text{F})$
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

10.3. Test procedure

- (1) EUT was placed on a non-metallic table, 10 mm above the ground plane inside a semi-anechoic chamber for below 1G and 10 mm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3m
18GHz-40GHz	Horn Antenna(18GHz-40GHz)	1m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m (Except loop antenna, it's fixed 1m above ground.)

- (b) Change work frequency or channel of device if practicable.

- (c) Change modulation type of device if practicable.

- (d) Change power supply range from 85% to 115% of the rated supply voltage

- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was

investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90 kHz, 110 kHz-490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

10.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz.

Note2: 30MHz~25GHz: Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK, the worst case is 8DPSK Mode.

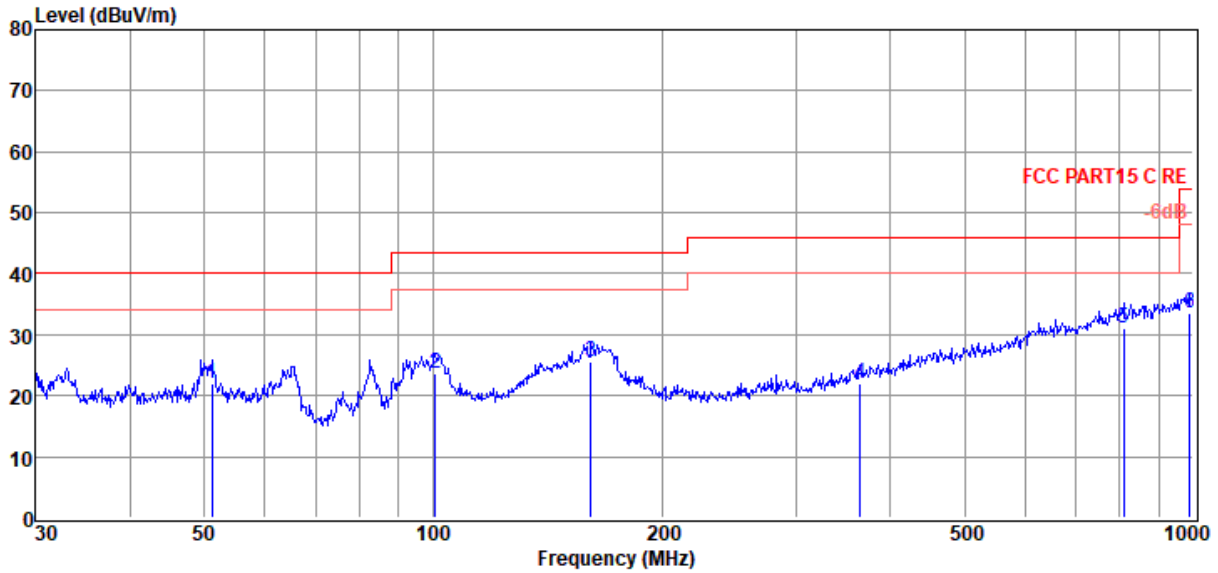
Note3: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in $\pi/4$ -DQPSK, Tx 2402 MHz mode.

Note4: For emissions above 1 GHz, only recorded the worst case $\pi/4$ -DQPSK Tx Mode. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission Test (below 1GHz) TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3# Test Date : 2022-07-27 EUT : Wireless Headphones with Wide-Band Active Noise Cancelling Power Supply : Battery Condition : Temp:23.3°C,Humi:54.1%,Press:100.3kPa Memo : BT	D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC BELOW 1G.EM6 Tested By : Bairong Model Number : MC-50BT Test Mode : TX mode Antenna/Distance : 2022 9161 #3/3m/HORIZONTAL
--	--

Data:
1



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	51.12	6.53	11.68	3.68	21.89	40.00	-18.11	QP	HORIZONTAL
2	100.58	7.32	12.36	3.98	23.66	43.50	-19.84	QP	HORIZONTAL
3	161.47	2.12	19.19	4.30	25.61	43.50	-17.89	QP	HORIZONTAL
4	364.26	2.18	14.76	5.04	21.98	46.00	-24.02	QP	HORIZONTAL
5	810.27	2.86	22.00	6.25	31.11	46.00	-14.89	QP	HORIZONTAL
6	989.54	3.05	23.80	6.78	33.63	54.00	-20.37	QP	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.11\2022 Report Data\Q22062728-2E MC-50BT\FCC BELOW 1G.EM6

Test Date : 2022-07-27

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band
Active Noise Cancelling

Model Number : MC-50BT

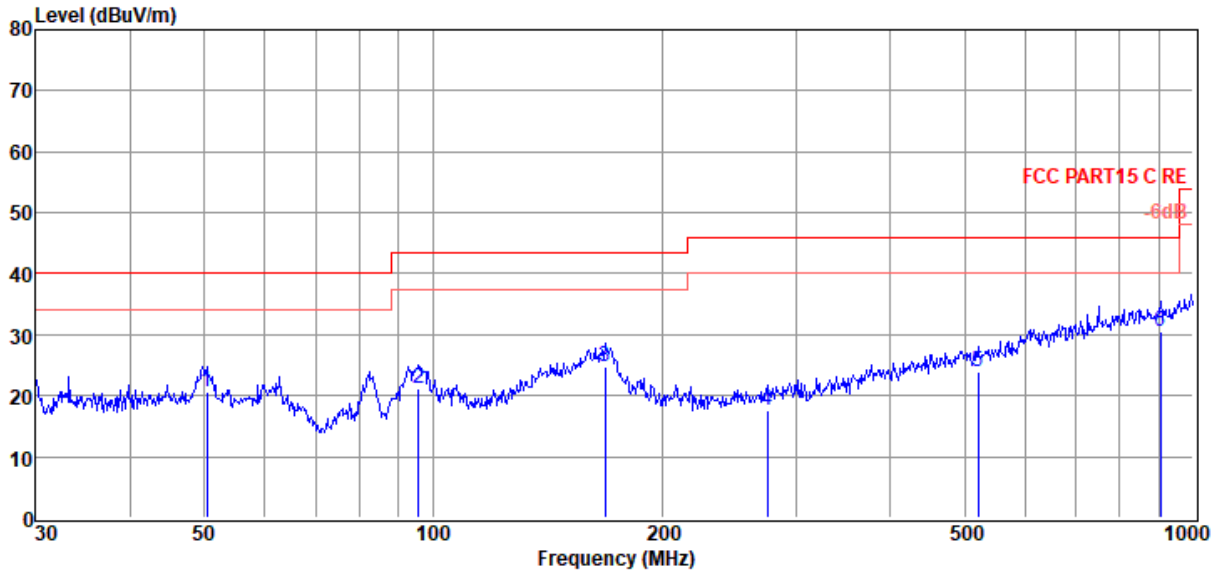
Power Supply : Battery

Test Mode : TX mode

Condition : Temp:23.3°C,Humi:54.1%,Press:100.3kPa **Antenna/Distance** : 2022 9161 #3/3m/VERTICAL

Memo : BT

Data:
2



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	50.41	5.14	11.88	3.67	20.69	40.00	-19.31	QP	VERTICAL
2	95.76	5.19	11.98	3.96	21.13	43.50	-22.37	QP	VERTICAL
3	168.41	0.85	19.46	4.33	24.64	43.50	-18.86	QP	VERTICAL
4	275.16	0.35	12.60	4.74	17.69	46.00	-28.31	QP	VERTICAL
5	520.89	0.66	17.82	5.52	24.00	46.00	-22.00	QP	VERTICAL
6	906.48	1.32	22.74	6.49	30.55	46.00	-15.45	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz) TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

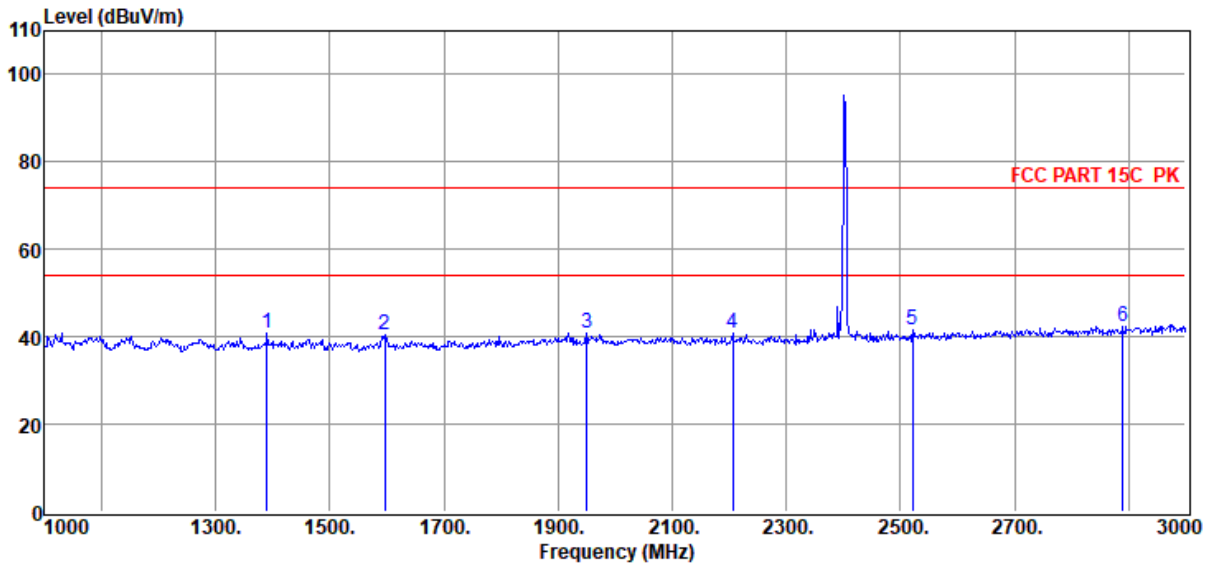
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2402

Data: 1



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1390.00	51.86	25.42	38.49	1.32	0.57	40.68	74.00	-33.32	Peak	HORIZONTAL
2	1596.00	51.59	25.65	38.79	1.42	0.61	40.48	74.00	-33.52	Peak	HORIZONTAL
3	1950.00	51.36	26.57	39.33	1.58	0.67	40.85	74.00	-33.15	Peak	HORIZONTAL
4	2206.00	50.77	27.07	39.50	1.66	0.70	40.70	74.00	-33.30	Peak	HORIZONTAL
5	2522.00	51.02	27.68	39.66	1.75	0.74	41.53	74.00	-32.47	Peak	HORIZONTAL
6	2890.00	50.63	29.08	39.85	1.84	0.78	42.48	74.00	-31.52	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

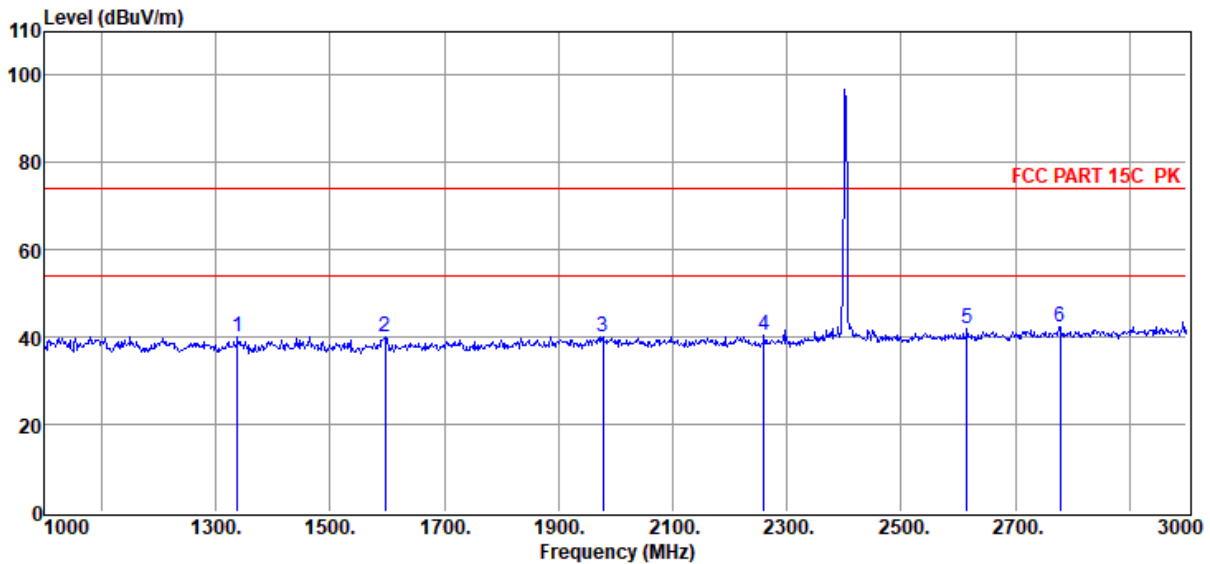
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2402

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1338.00	51.04	25.43	38.41	1.29	0.56	39.91	74.00	-34.09	Peak	VERTICAL
2	1596.00	51.16	25.65	38.79	1.42	0.61	40.05	74.00	-33.95	Peak	VERTICAL
3	1978.00	50.68	26.64	39.37	1.59	0.68	40.22	74.00	-33.78	Peak	VERTICAL
4	2260.00	50.38	27.17	39.53	1.67	0.71	40.40	74.00	-33.60	Peak	VERTICAL
5	2616.00	51.02	28.04	39.71	1.77	0.75	41.87	74.00	-32.13	Peak	VERTICAL
6	2778.00	50.96	28.66	39.79	1.81	0.77	42.41	74.00	-31.59	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

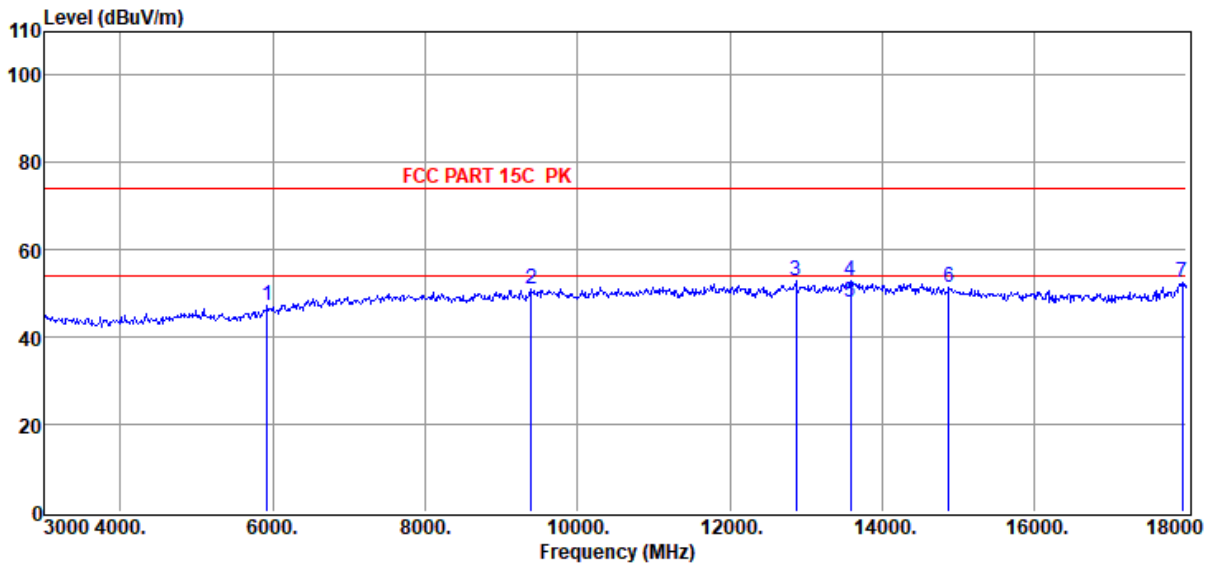
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2402

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5925.00	48.07	33.82	40.49	2.96	2.75	47.11	74.00	-26.89	Peak	HORIZONTAL
2	9390.00	46.64	38.61	40.17	3.56	2.30	50.94	74.00	-23.06	Peak	HORIZONTAL
3	12870.00	46.60	39.44	40.36	4.22	2.89	52.79	74.00	-21.21	Peak	HORIZONTAL
4	13590.00	46.08	39.98	39.99	4.09	2.92	53.08	74.00	-20.92	Peak	HORIZONTAL
5	13590.00	41.08	39.98	39.99	4.09	2.92	48.08	54.00	-5.92	Average	HORIZONTAL
6	14880.00	44.42	39.60	39.61	4.44	2.65	51.50	74.00	-22.50	Peak	HORIZONTAL
7	17940.00	42.22	42.13	40.66	4.94	3.77	52.40	74.00	-21.60	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-08-03

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

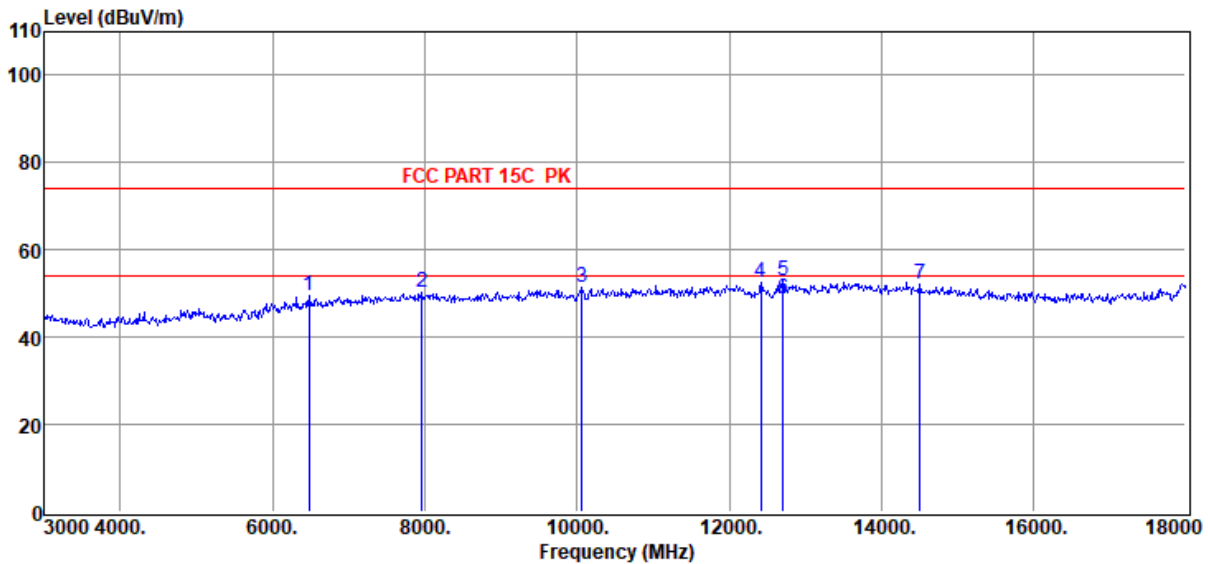
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2402

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6480.00	48.64	35.15	40.12	3.26	2.54	49.47	74.00	-24.53	Peak	VERTICAL
2	7965.00	47.47	36.96	39.80	3.19	2.28	50.10	74.00	-23.90	Peak	VERTICAL
3	10065.00	47.43	38.48	40.57	3.67	2.47	51.48	74.00	-22.52	Peak	VERTICAL
4	12420.00	47.29	39.03	40.23	3.76	2.64	52.49	74.00	-21.51	Peak	VERTICAL
5	12705.00	47.05	39.25	40.31	3.99	2.79	52.77	74.00	-21.23	Peak	VERTICAL
6	12705.00	43.05	39.25	40.31	3.99	2.79	48.77	54.00	-5.23	Average	VERTICAL
7	14505.00	44.64	39.90	39.65	4.35	2.76	52.00	74.00	-22.00	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

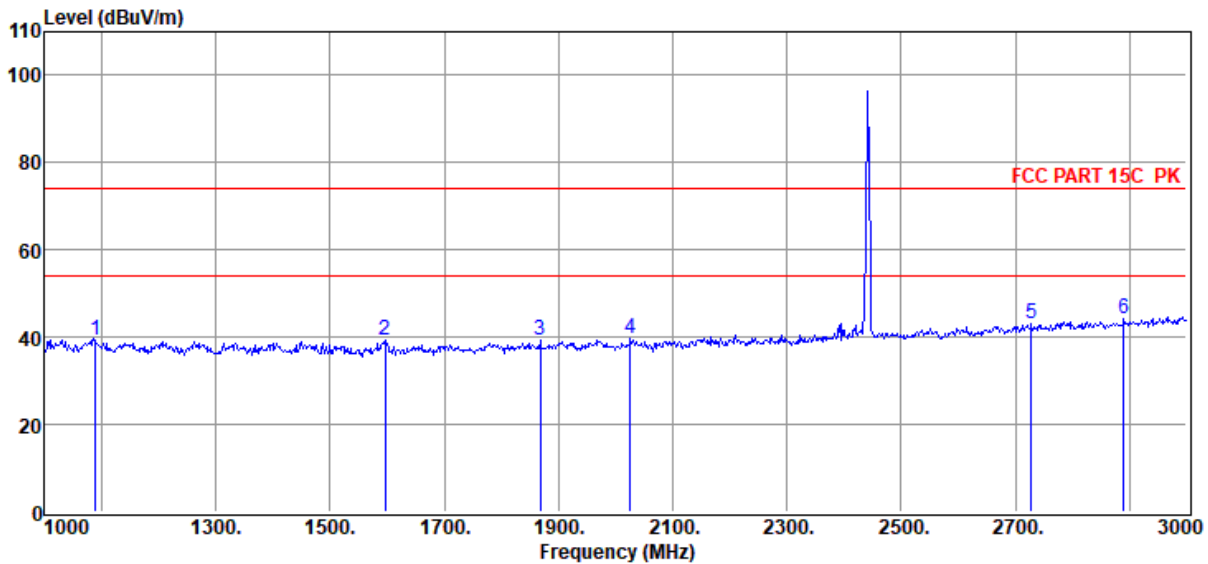
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2441

Data: 5



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1090.00	50.35	25.48	38.03	1.15	0.52	39.47	74.00	-34.53	Peak	HORIZONTAL
2	1596.00	50.49	25.65	38.79	1.42	0.61	39.38	74.00	-34.62	Peak	HORIZONTAL
3	1868.00	49.95	26.36	39.20	1.54	0.66	39.31	74.00	-34.69	Peak	HORIZONTAL
4	2026.00	49.96	26.75	39.41	1.61	0.68	39.59	74.00	-34.41	Peak	HORIZONTAL
5	2728.00	51.75	28.47	39.76	1.80	0.76	43.02	74.00	-30.98	Peak	HORIZONTAL
6	2890.00	52.45	29.08	39.85	1.84	0.78	44.30	74.00	-29.70	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

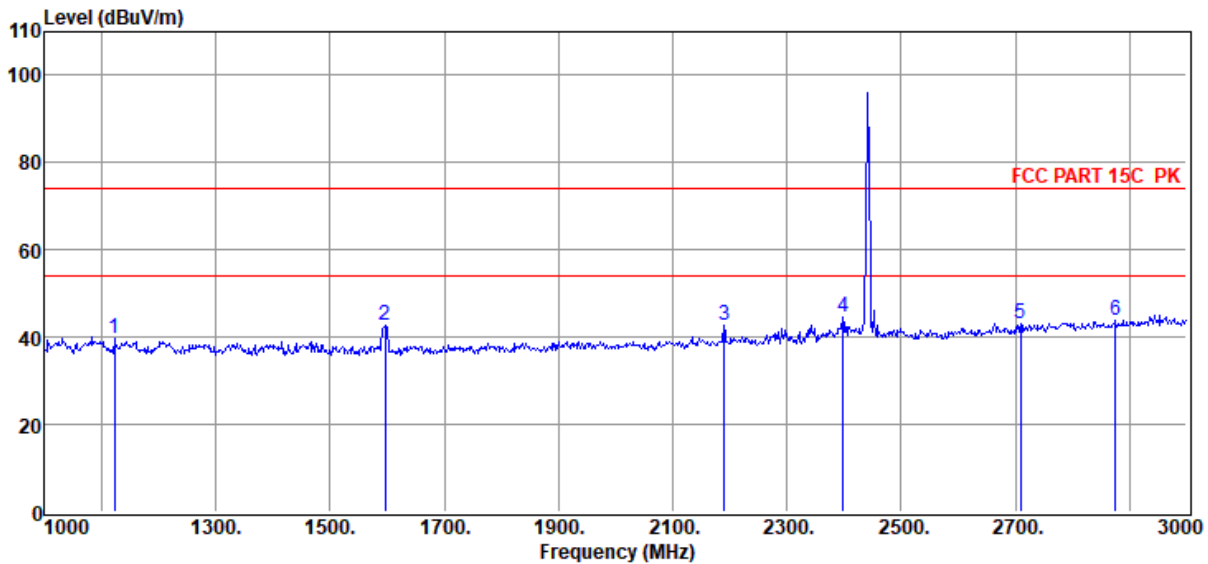
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2441

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1122.00	50.61	25.48	38.08	1.17	0.52	39.70	74.00	-34.30	Peak	VERTICAL
2	1596.00	53.78	25.65	38.79	1.42	0.61	42.67	74.00	-31.33	Peak	VERTICAL
3	2190.00	52.74	27.04	39.50	1.65	0.70	42.63	74.00	-31.37	Peak	VERTICAL
4	2398.00	54.28	27.42	39.60	1.71	0.72	44.53	74.00	-29.47	Peak	VERTICAL
5	2710.00	51.86	28.40	39.76	1.79	0.76	43.05	74.00	-30.95	Peak	VERTICAL
6	2876.00	51.97	29.03	39.84	1.84	0.78	43.78	74.00	-30.22	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

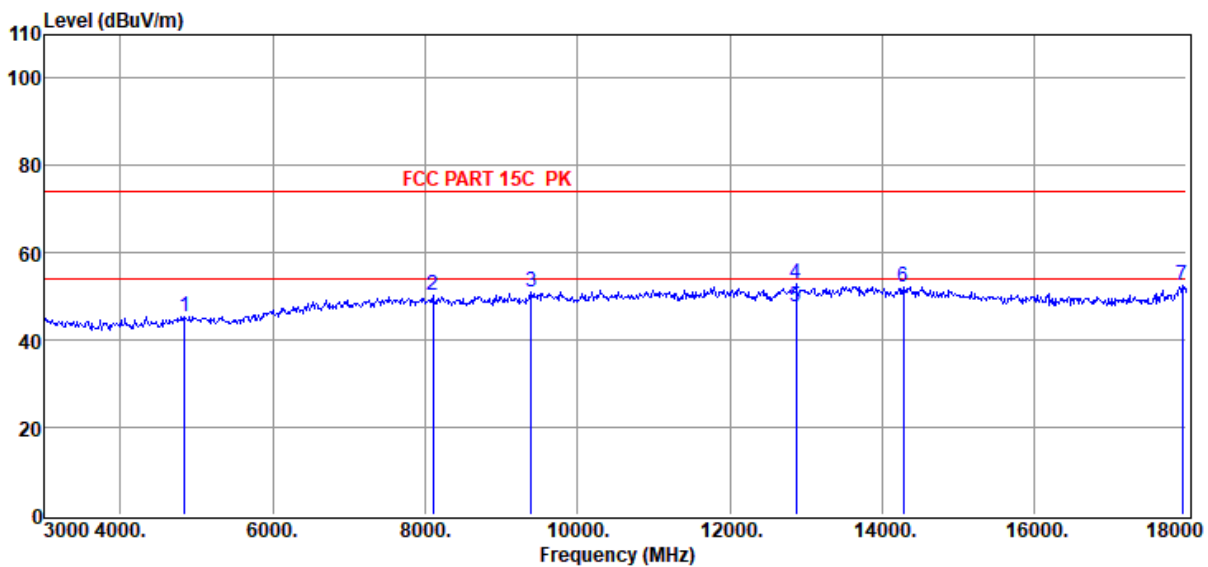
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2441

Data: 7



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4845.00	48.51	32.60	40.37	2.48	2.17	45.39	74.00	-28.61	Peak	HORIZONTAL
2	8100.00	47.39	37.16	39.81	3.20	2.27	50.21	74.00	-23.79	Peak	HORIZONTAL
3	9390.00	46.64	38.61	40.17	3.56	2.30	50.94	74.00	-23.06	Peak	HORIZONTAL
4	12870.00	46.60	39.44	40.36	4.22	2.89	52.79	74.00	-21.21	Peak	HORIZONTAL
5	12870.00	41.60	39.44	40.36	4.22	2.89	47.79	54.00	-6.21	Average	HORIZONTAL
6	14280.00	44.75	39.90	39.67	4.43	2.82	52.23	74.00	-21.77	Peak	HORIZONTAL
7	17940.00	42.22	42.13	40.66	4.94	3.77	52.40	74.00	-21.60	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-08-03

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

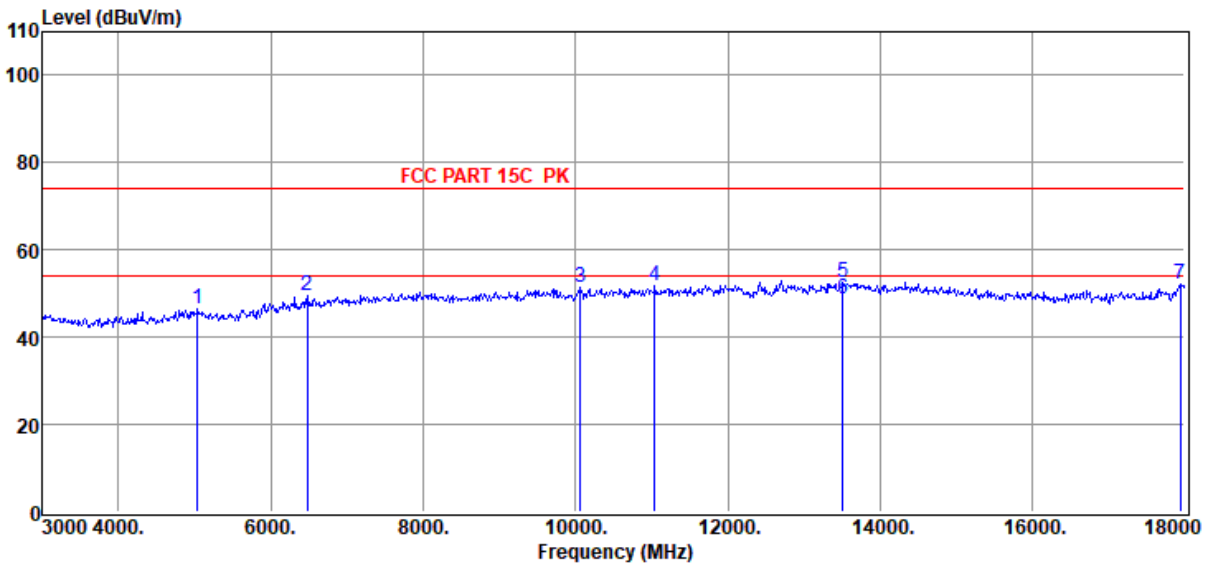
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2441

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5040.00	49.07	33.08	40.40	2.54	2.21	46.50	74.00	-27.50	Peak	VERTICAL
2	6480.00	48.64	35.15	40.12	3.26	2.54	49.47	74.00	-24.53	Peak	VERTICAL
3	10065.00	47.43	38.48	40.57	3.67	2.47	51.48	74.00	-22.52	Peak	VERTICAL
4	11040.00	46.38	39.28	40.20	3.81	2.38	51.65	74.00	-22.35	Peak	VERTICAL
5	13515.00	45.72	40.00	40.04	4.01	2.93	52.62	74.00	-21.38	Peak	VERTICAL
6	13515.00	41.72	40.00	40.04	4.01	2.93	48.62	54.00	-5.38	Average	VERTICAL
7	17940.00	41.86	42.13	40.66	4.94	3.77	52.04	74.00	-21.96	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

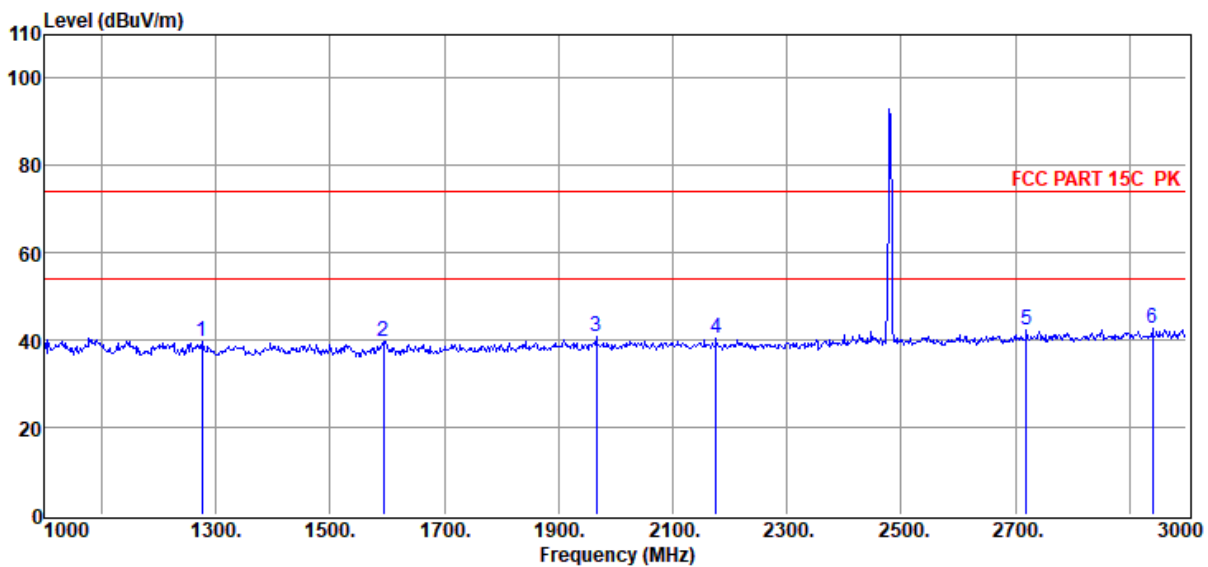
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2480

Data: 9



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1276.00	50.74	25.44	38.31	1.25	0.55	39.67	74.00	-34.33	Peak	HORIZONTAL
2	1594.00	50.68	25.64	38.79	1.42	0.61	39.56	74.00	-34.44	Peak	HORIZONTAL
3	1966.00	51.27	26.61	39.35	1.59	0.67	40.79	74.00	-33.21	Peak	HORIZONTAL
4	2176.00	50.66	27.02	39.49	1.65	0.70	40.54	74.00	-33.46	Peak	HORIZONTAL
5	2720.00	51.18	28.44	39.76	1.80	0.76	42.42	74.00	-31.58	Peak	HORIZONTAL
6	2940.00	50.62	29.27	39.87	1.85	0.78	42.65	74.00	-31.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

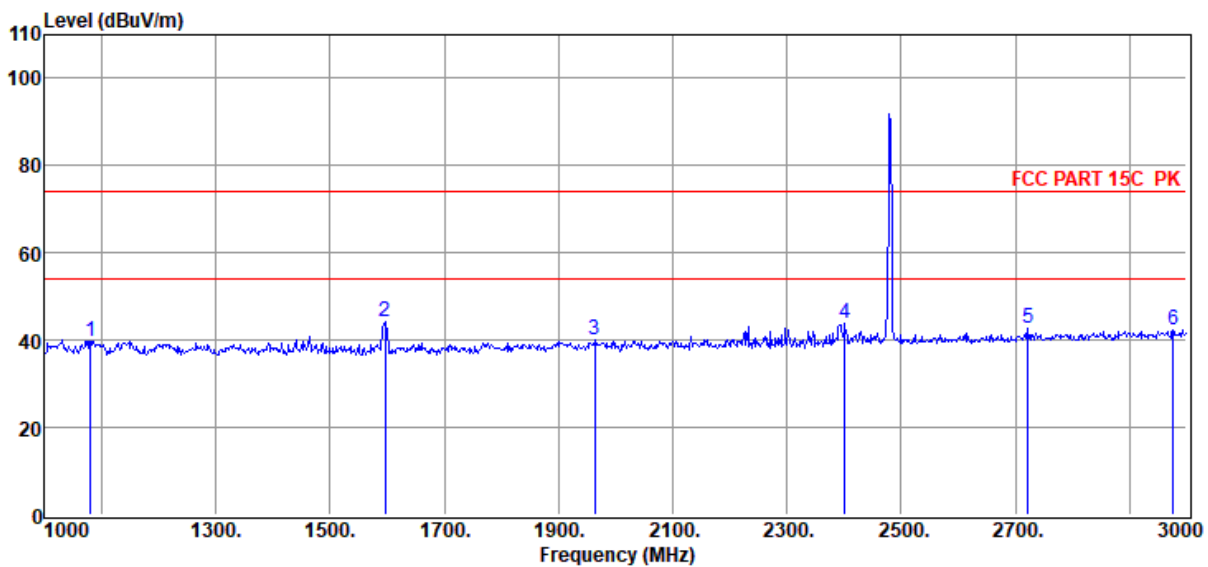
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2480

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1080.00	50.67	25.48	38.02	1.14	0.51	39.78	74.00	-34.22	Peak	VERTICAL
2	1596.00	55.37	25.65	38.79	1.42	0.61	44.26	74.00	-29.74	Peak	VERTICAL
3	1964.00	50.73	26.61	39.35	1.58	0.67	40.24	74.00	-33.76	Peak	VERTICAL
4	2402.00	53.65	27.42	39.60	1.71	0.72	43.90	74.00	-30.10	Peak	VERTICAL
5	2722.00	51.40	28.44	39.76	1.80	0.76	42.64	74.00	-31.36	Peak	VERTICAL
6	2976.00	50.31	29.41	39.89	1.86	0.79	42.48	74.00	-31.52	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

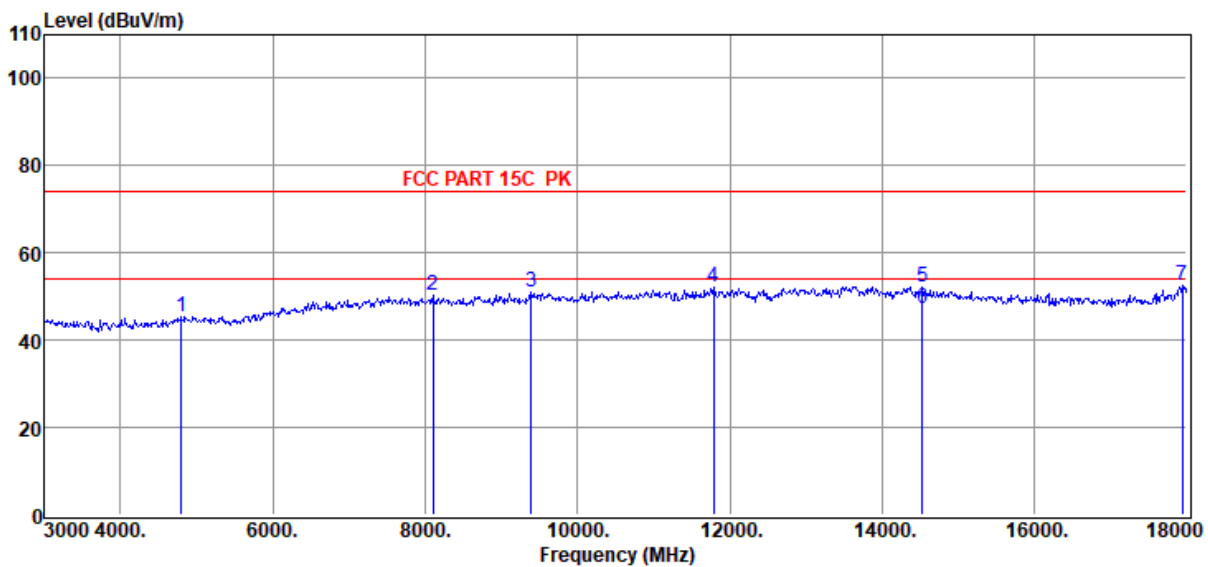
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2480

Data: 11



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4800.00	48.60	32.46	40.36	2.47	2.16	45.33	74.00	-28.67	Peak	HORIZONTAL
2	8100.00	47.39	37.16	39.81	3.20	2.27	50.21	74.00	-23.79	Peak	HORIZONTAL
3	9390.00	46.64	38.61	40.17	3.56	2.30	50.94	74.00	-23.06	Peak	HORIZONTAL
4	11790.00	46.58	39.12	40.12	4.02	2.40	52.00	74.00	-22.00	Peak	HORIZONTAL
5	14535.00	44.79	39.87	39.65	4.36	2.75	52.12	74.00	-21.88	Peak	HORIZONTAL
6	14535.00	39.79	39.87	39.65	4.36	2.75	47.12	54.00	-6.88	Average	HORIZONTAL
7	17940.00	42.22	42.13	40.66	4.94	3.77	52.40	74.00	-21.60	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-26

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

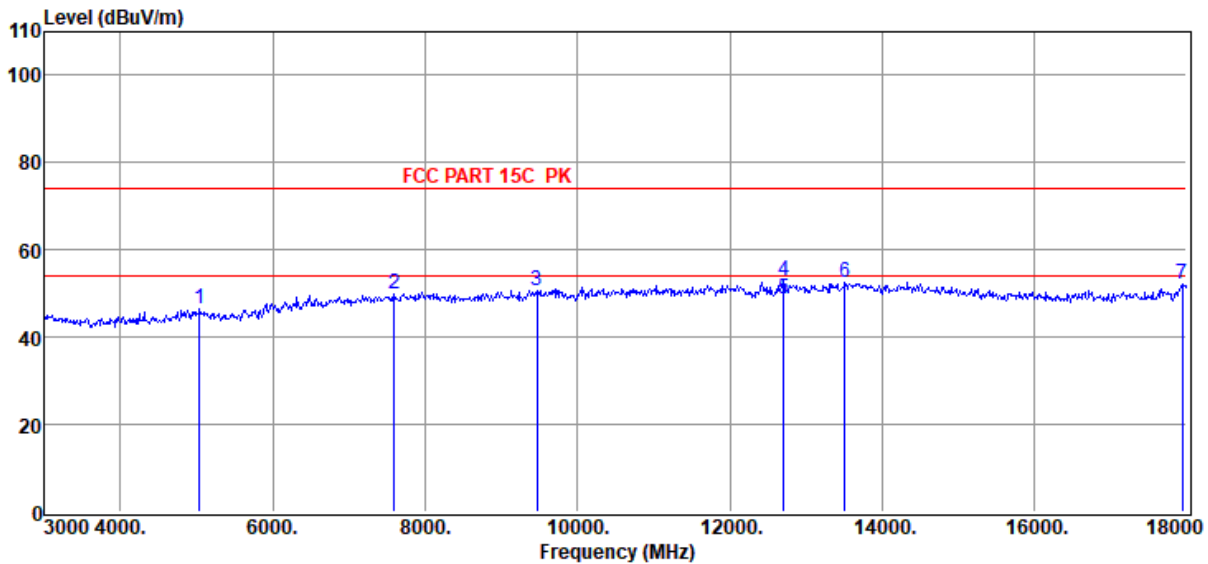
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2480

Data: 12



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5040.00	49.07	33.08	40.40	2.54	2.21	46.50	74.00	-27.50	Peak	VERTICAL
2	7590.00	47.58	36.51	39.76	3.15	2.27	49.75	74.00	-24.25	Peak	VERTICAL
3	9465.00	46.48	38.67	40.23	3.60	2.32	50.84	74.00	-23.16	Peak	VERTICAL
4	12705.00	47.05	39.25	40.31	3.99	2.79	52.77	74.00	-21.23	Peak	VERTICAL
5	12705.00	43.05	39.25	40.31	3.99	2.79	48.77	54.00	-5.23	Average	VERTICAL
6	13515.00	45.72	40.00	40.04	4.01	2.93	52.62	74.00	-21.38	Peak	VERTICAL
7	17940.00	41.86	42.13	40.66	4.94	3.77	52.04	74.00	-21.96	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. RF Conducted Spurious Emissions

11.1. Block diagram of test setup

Same as section 4.1

11.2. Limits

In any 100 kHz bandwidth outside the frequency bands 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.

11.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

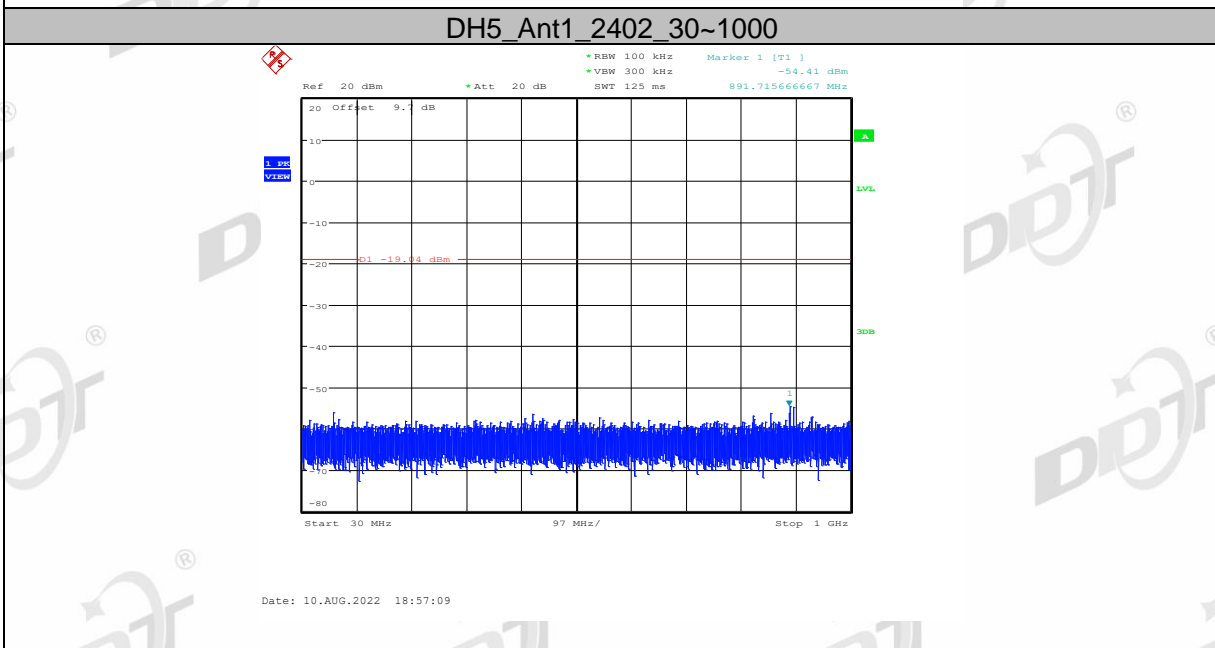
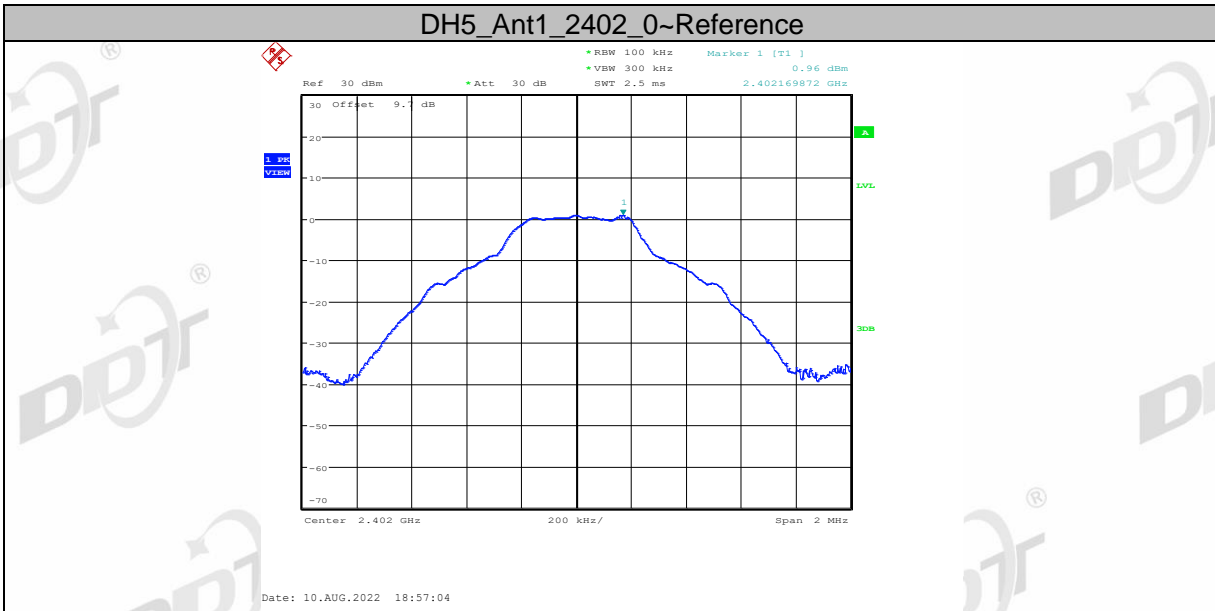
RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

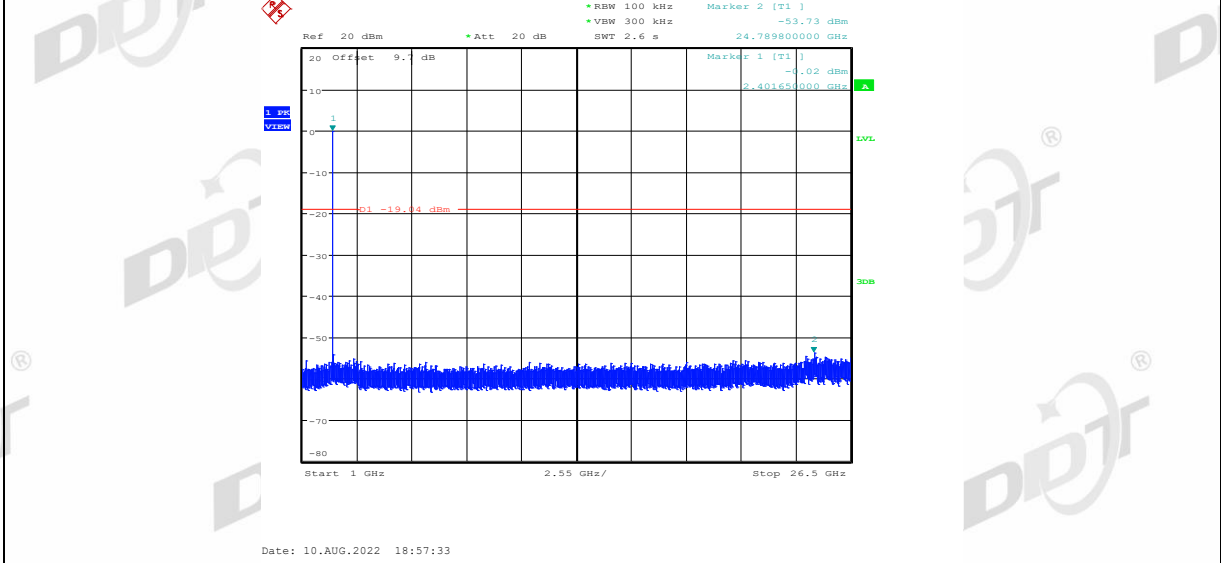
11.4. Test result

Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

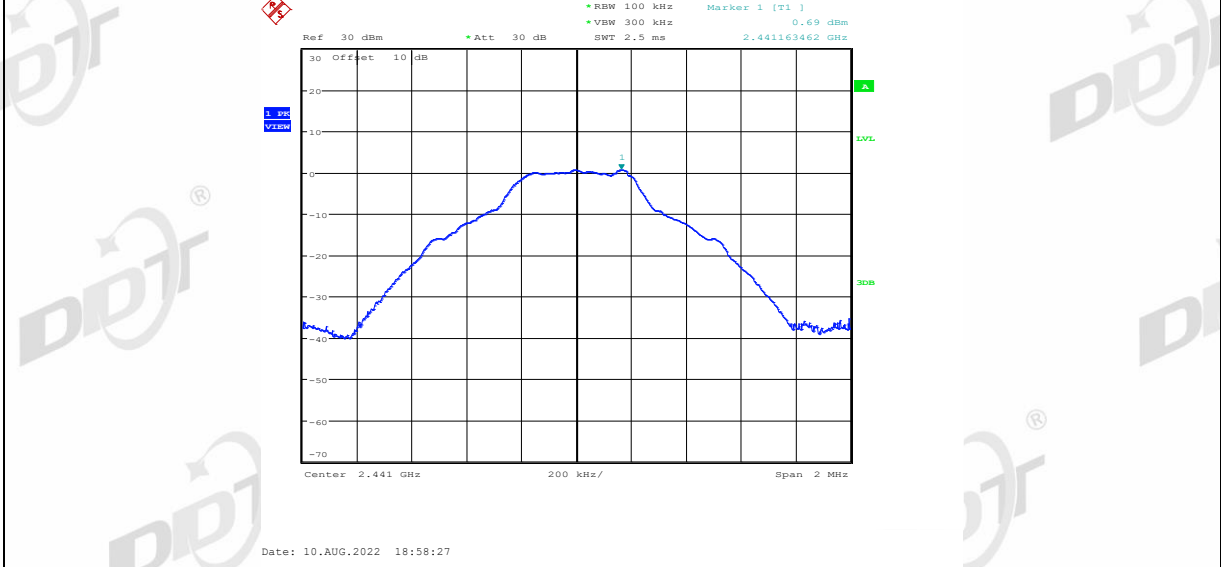
11.5. Original test data



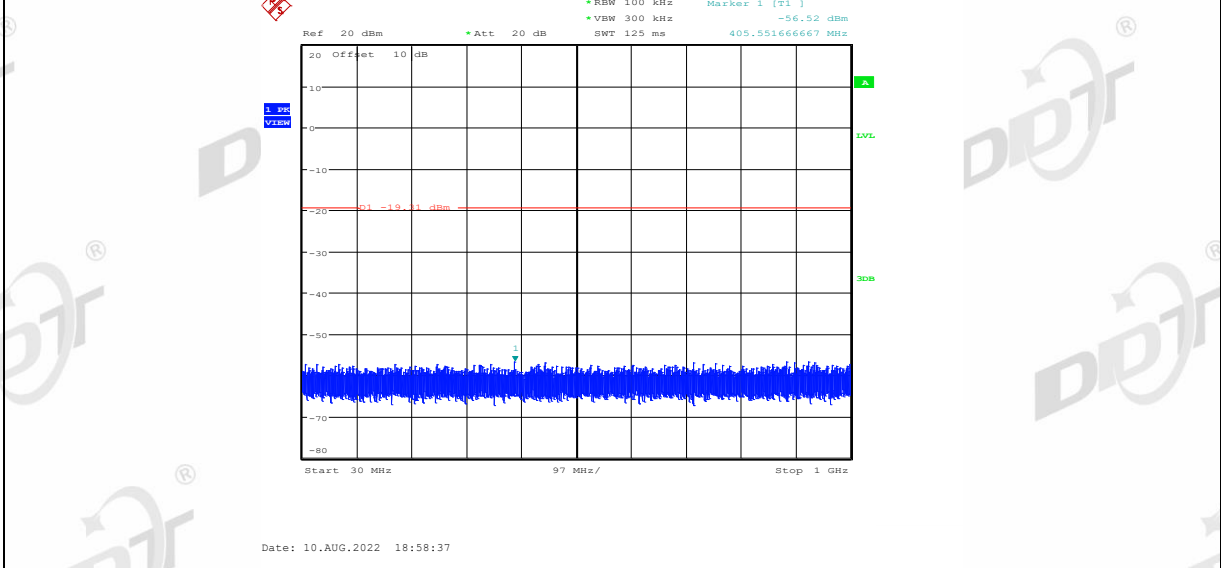
DH5_Ant1_2402_1000~26500



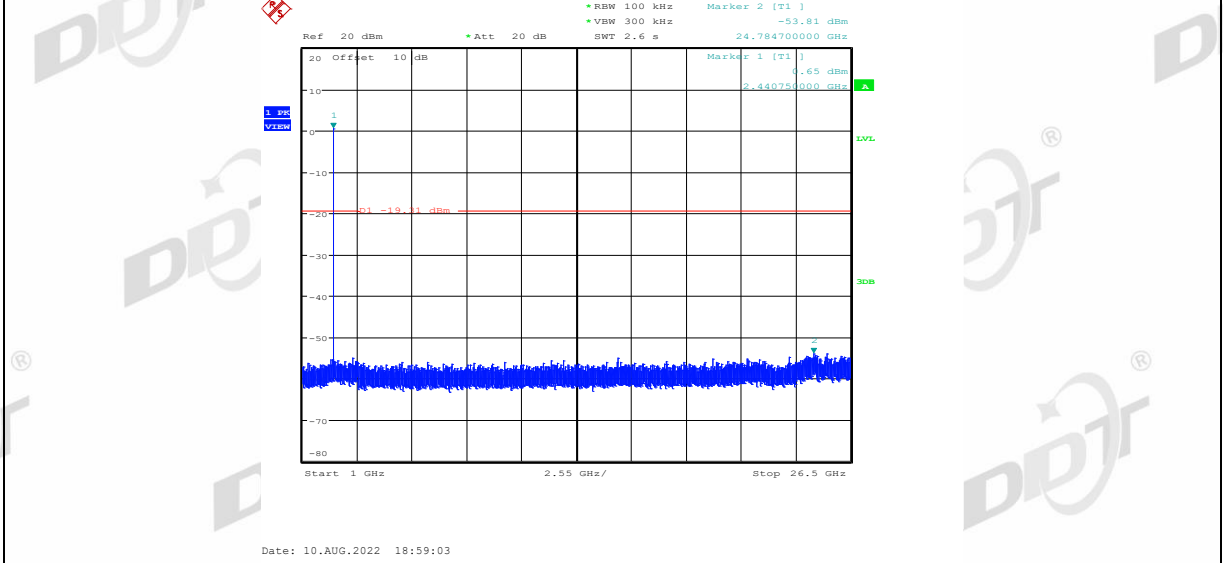
DH5_Ant1_2441_0~Reference



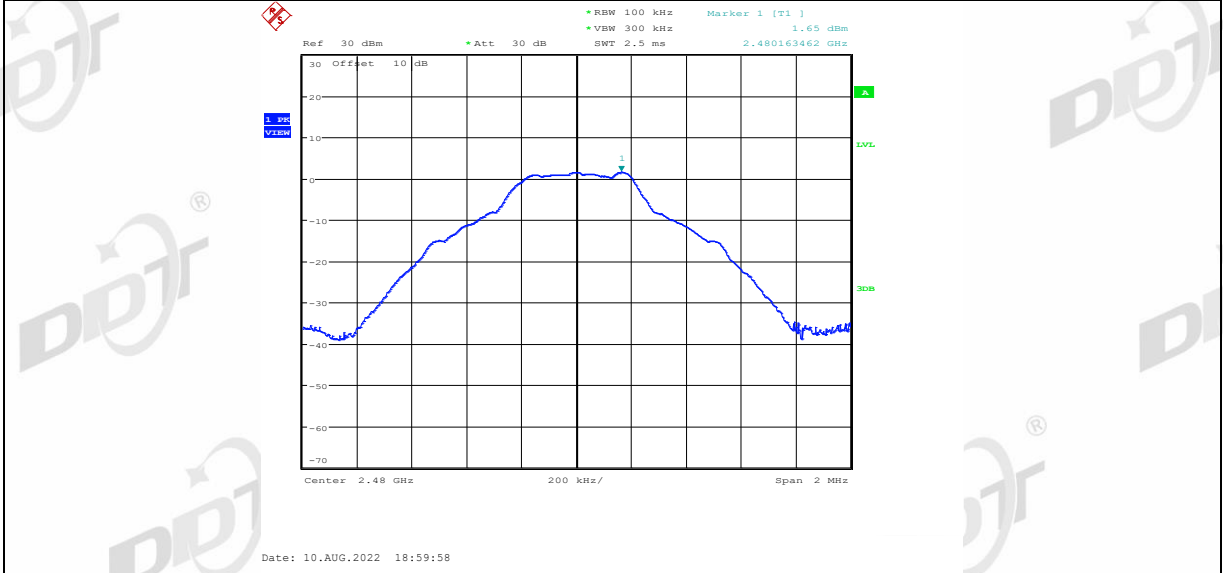
DH5_Ant1_2441_30~1000



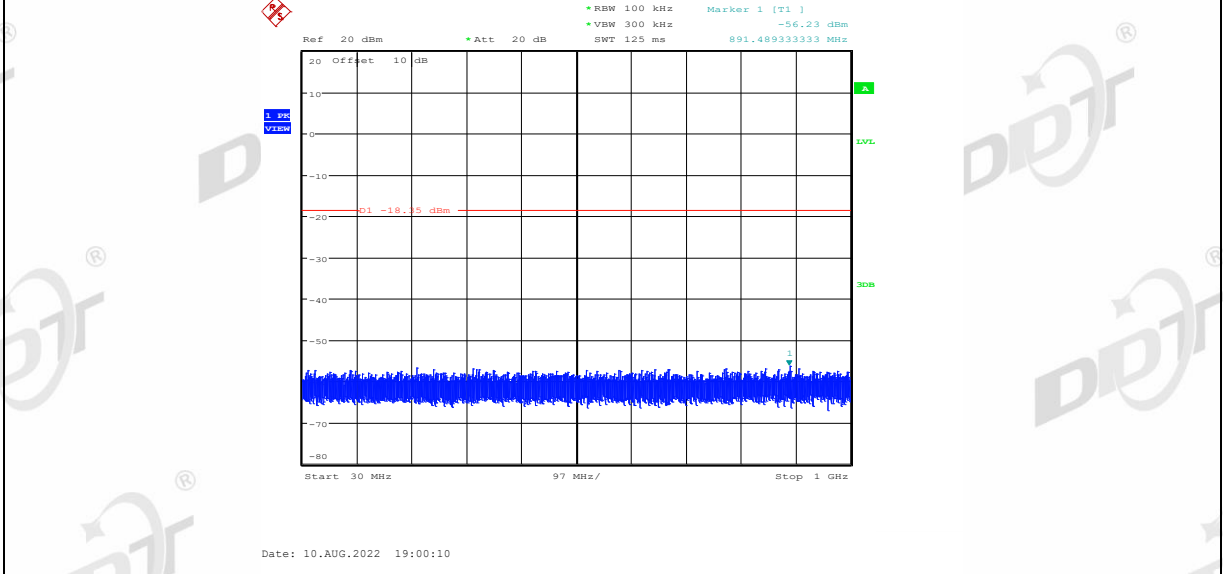
DH5_Ant1_2441_1000~26500



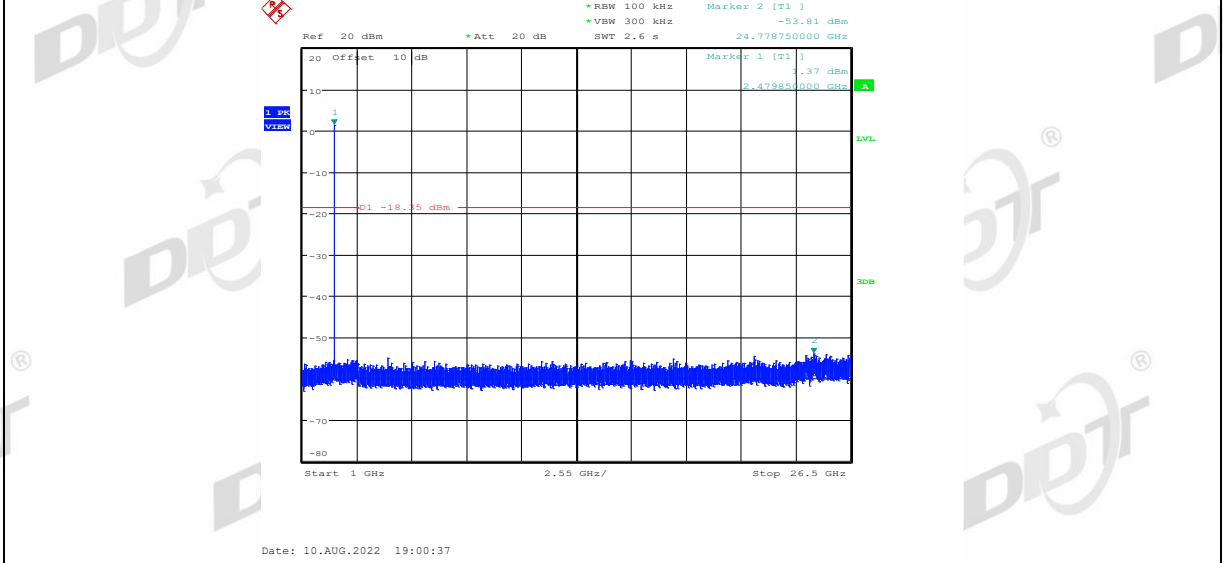
DH5_Ant1_2480_0~Reference



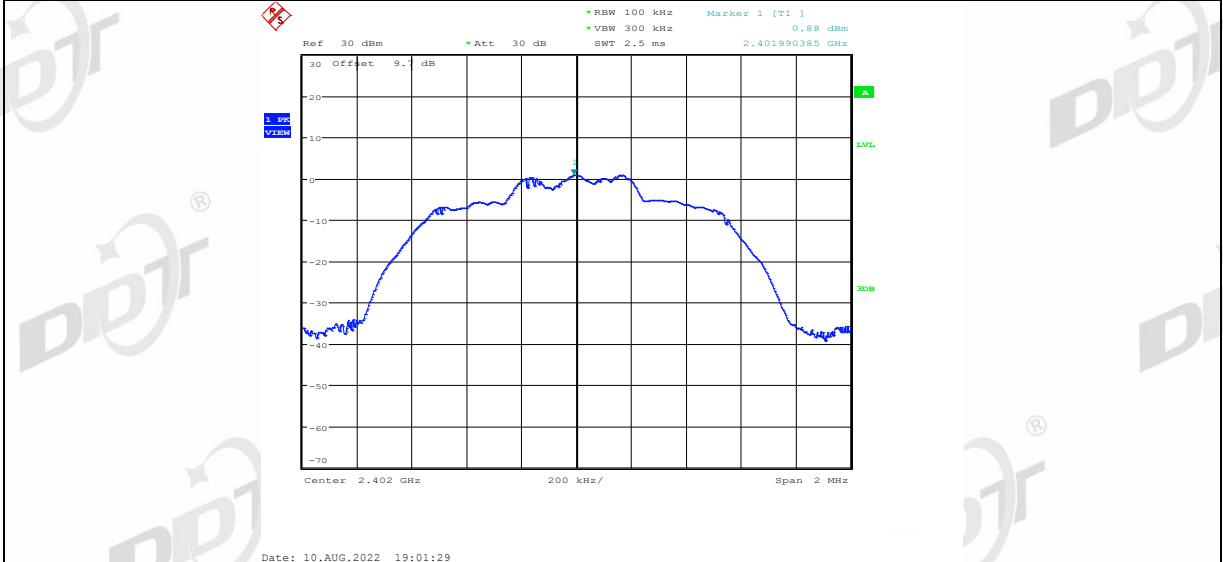
DH5_Ant1_2480_30~1000



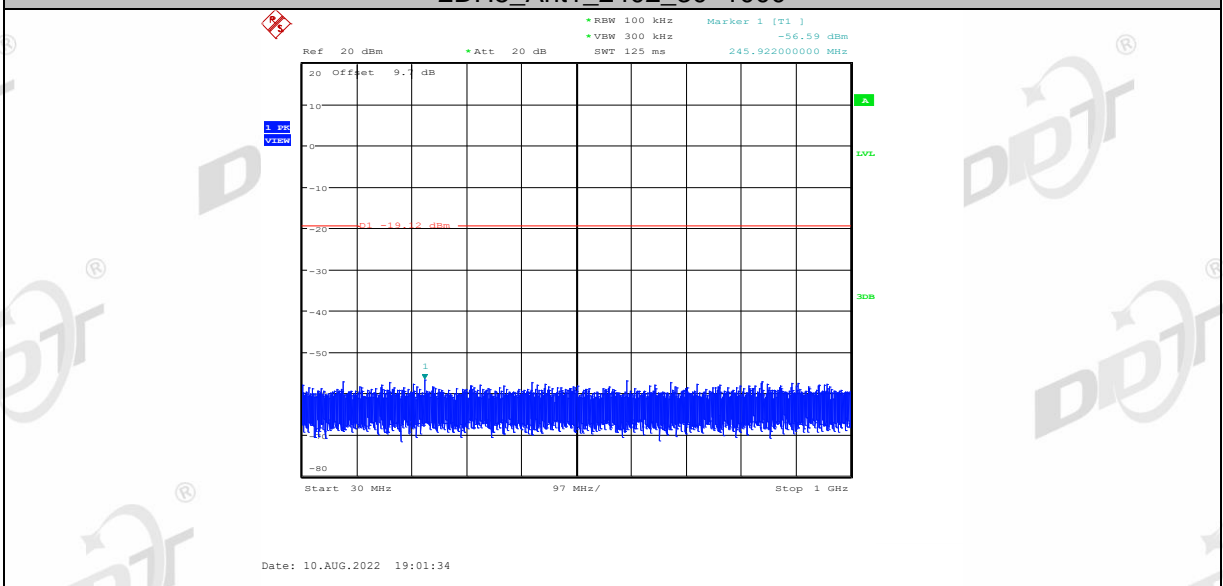
DH5_Ant1_2480_1000~26500



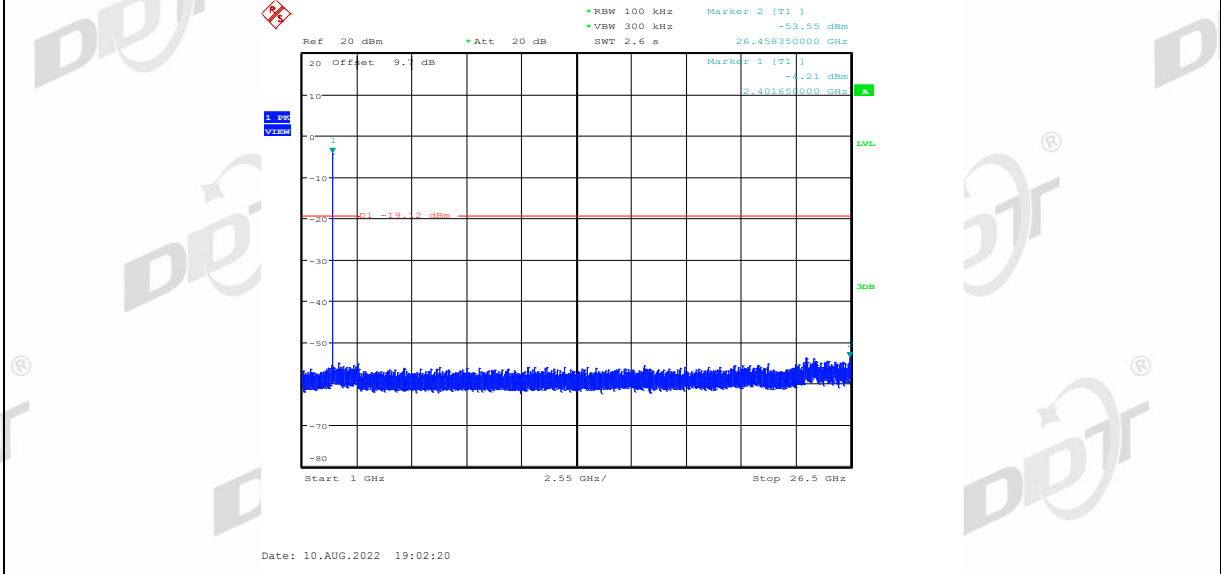
2DH5_Ant1_2402_0~Reference



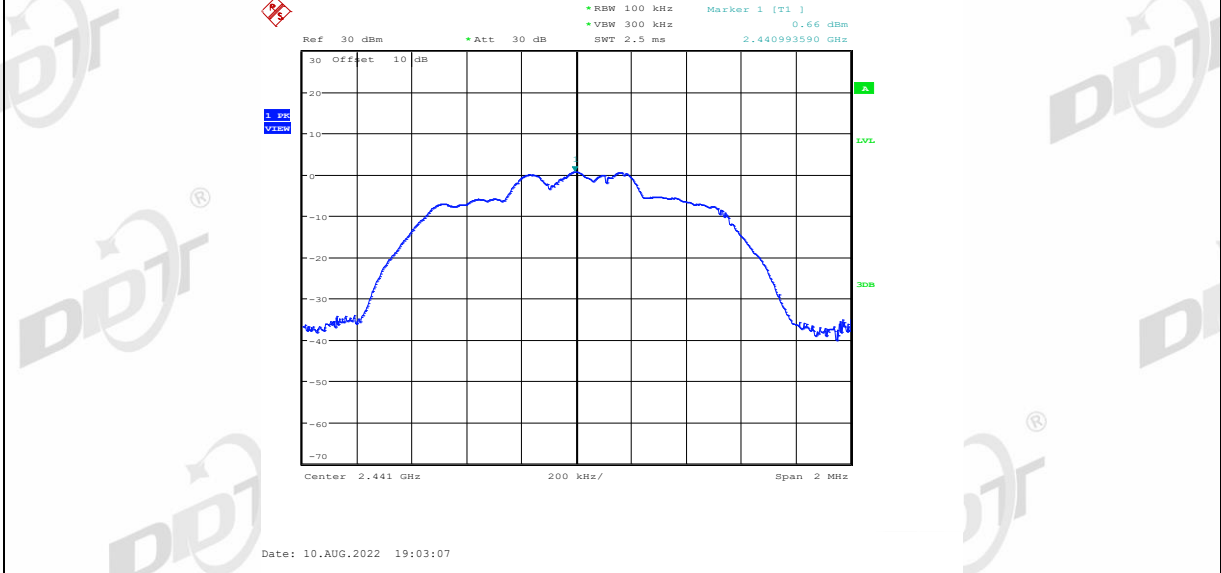
2DH5_Ant1_2402_30~1000



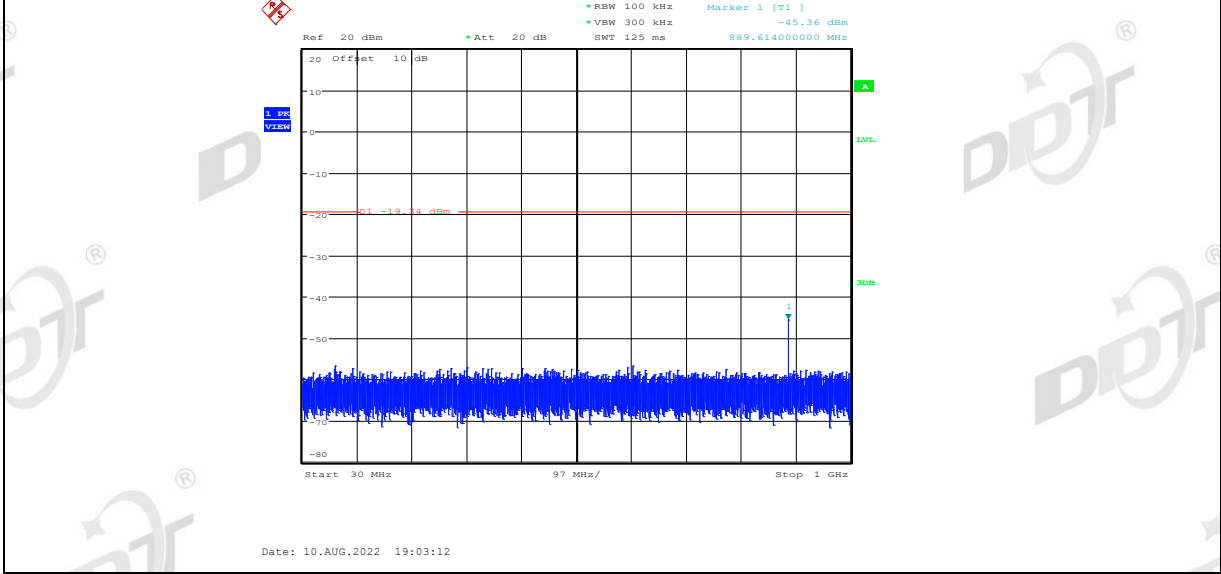
2DH5_Ant1_2402_1000~26500



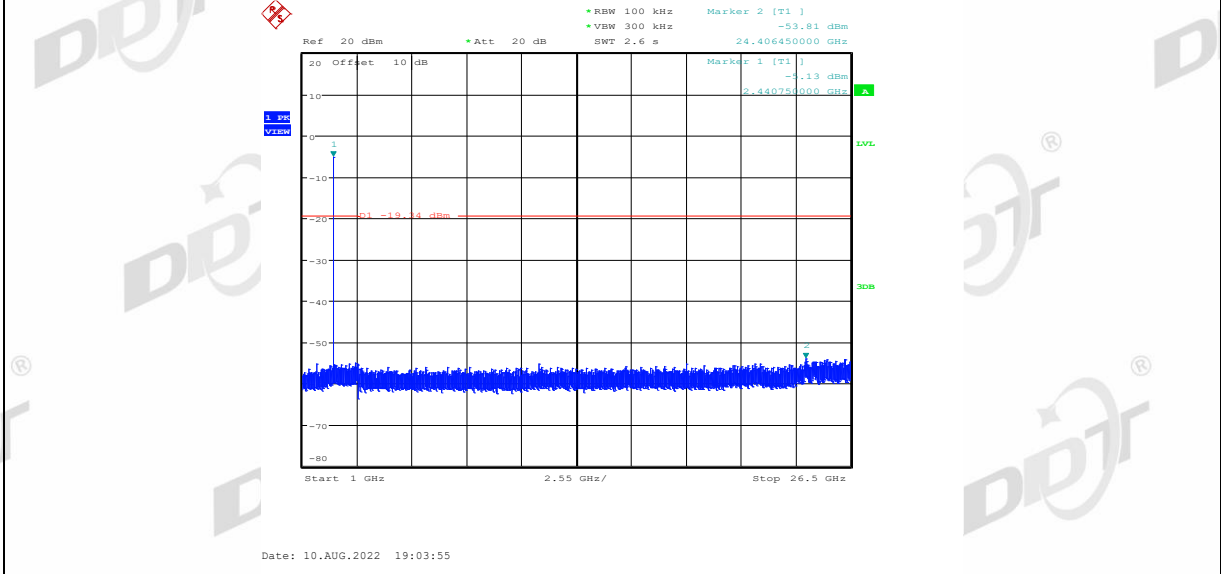
2DH5_Ant1_2441_0~Reference



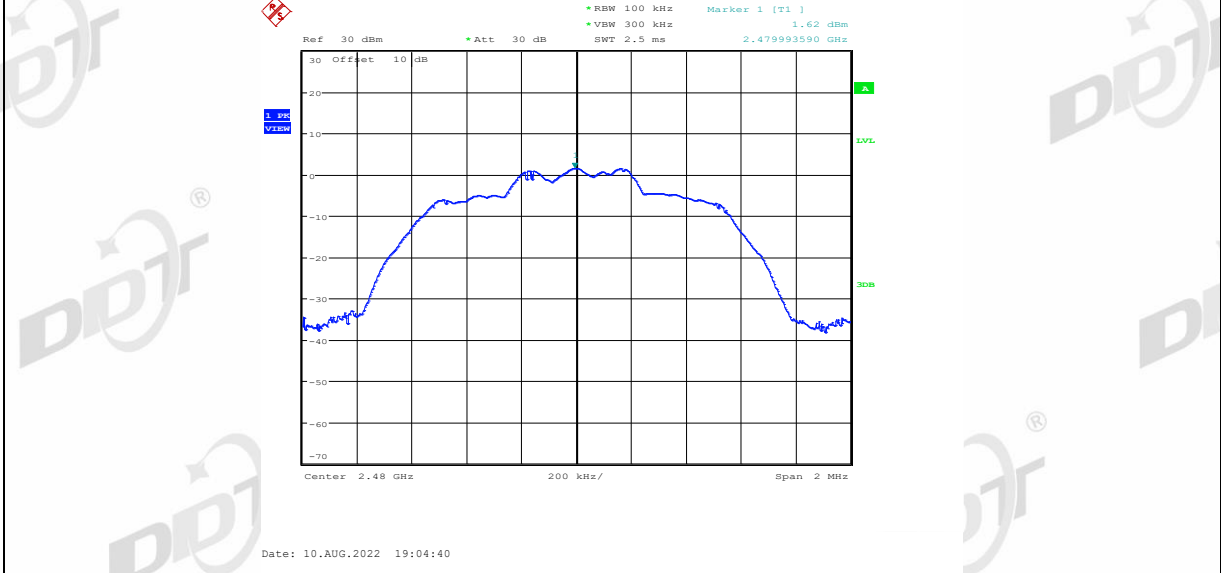
2DH5_Ant1_2441_30~1000



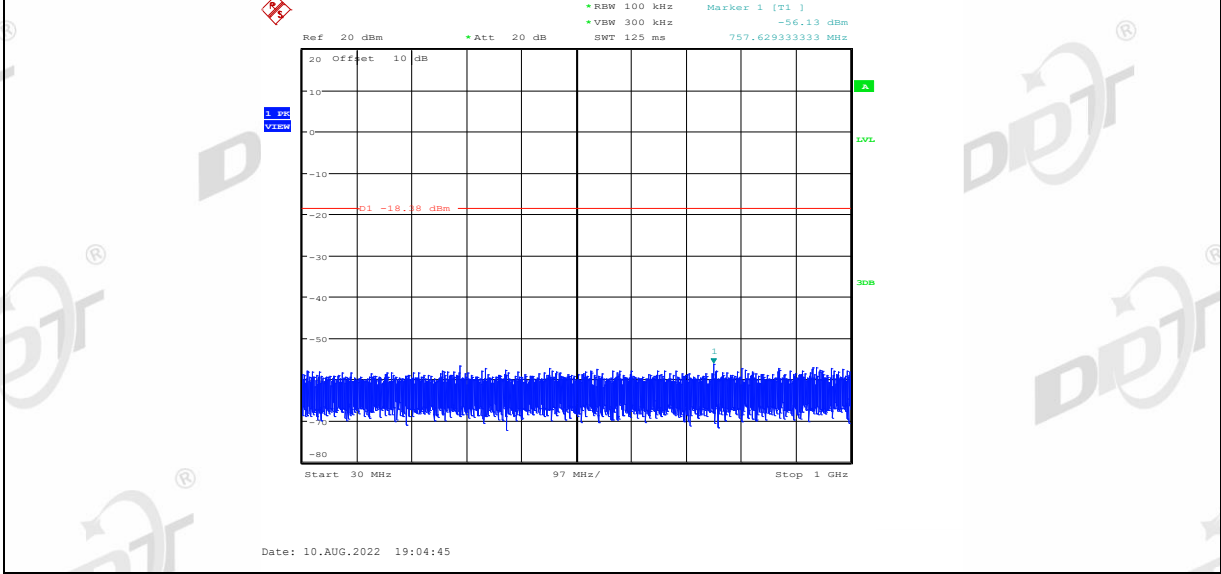
2DH5_Ant1_2441_1000~26500



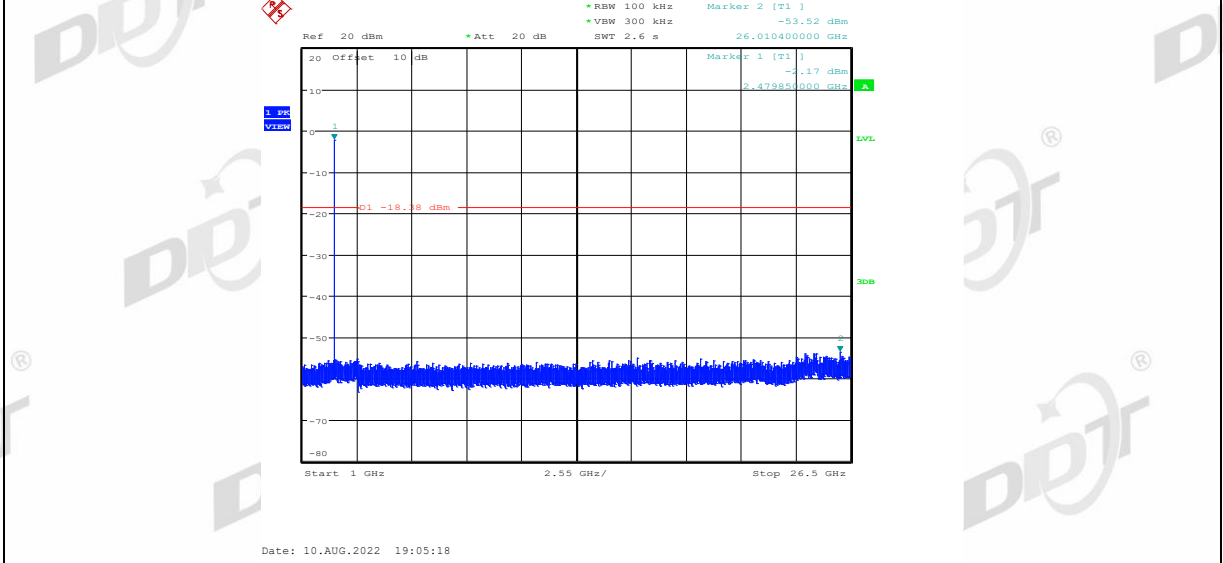
2DH5_Ant1_2480_0~Reference



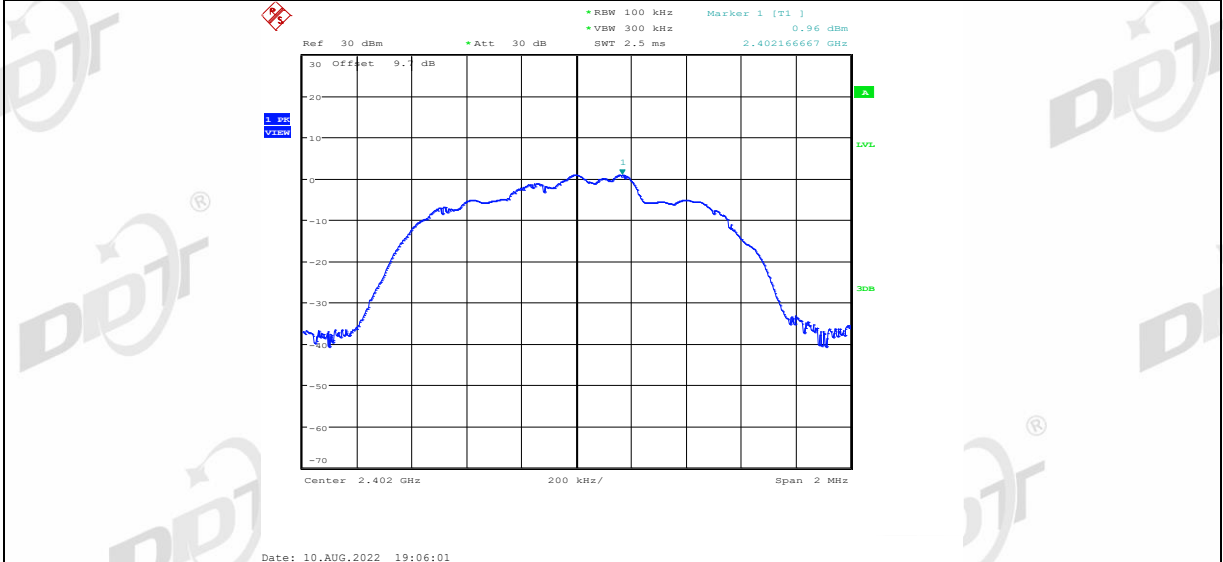
2DH5_Ant1_2480_30~1000



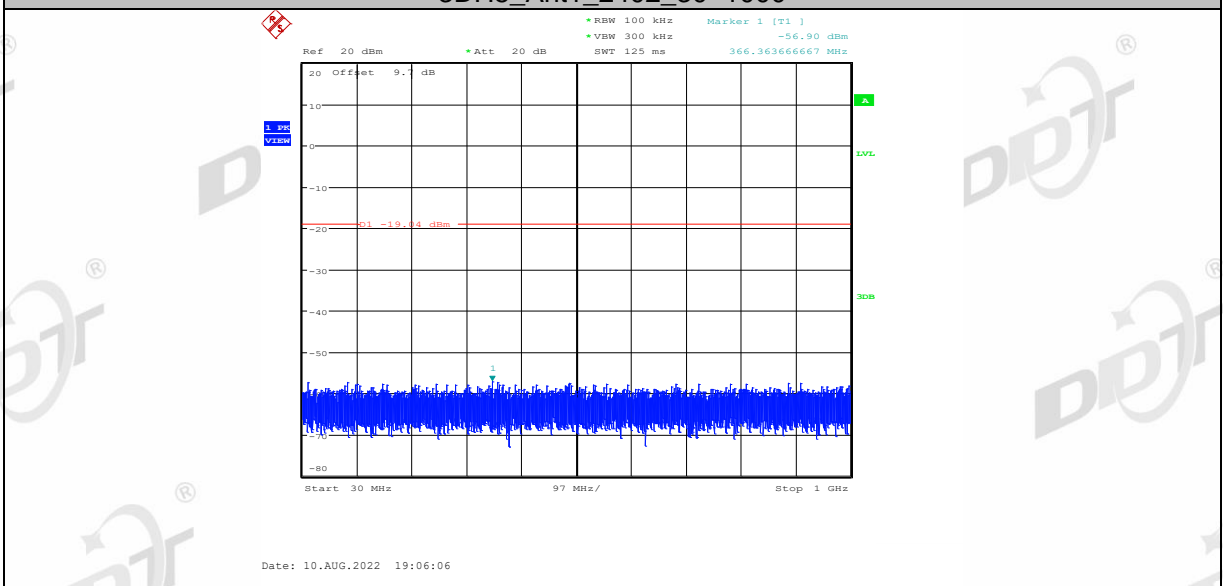
2DH5_Ant1_2480_1000~26500



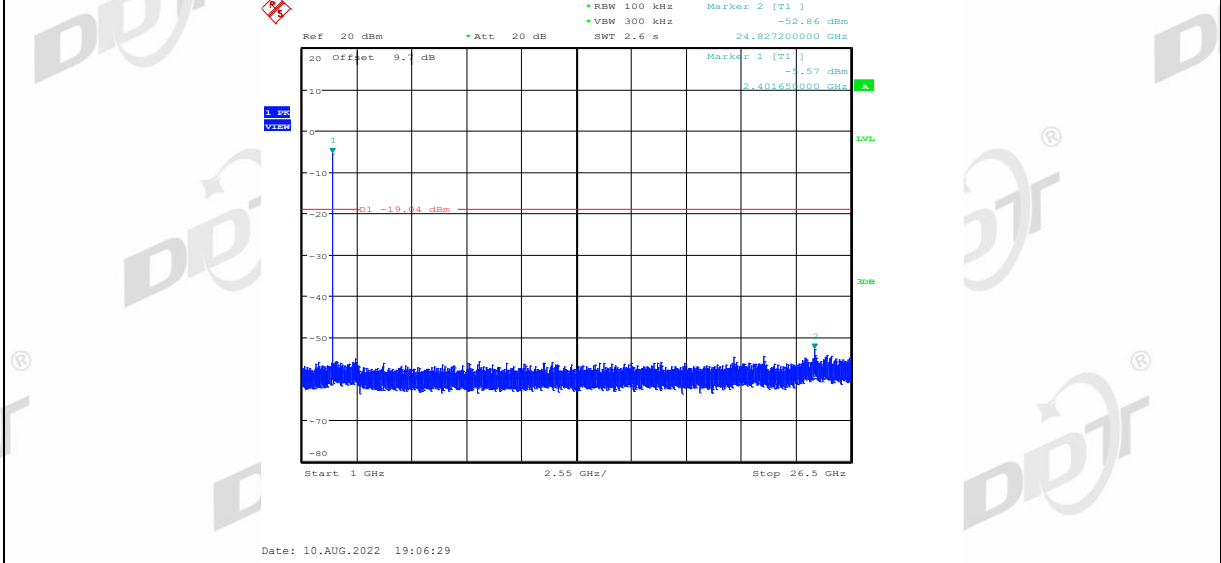
3DH5_Ant1_2402_0~Reference



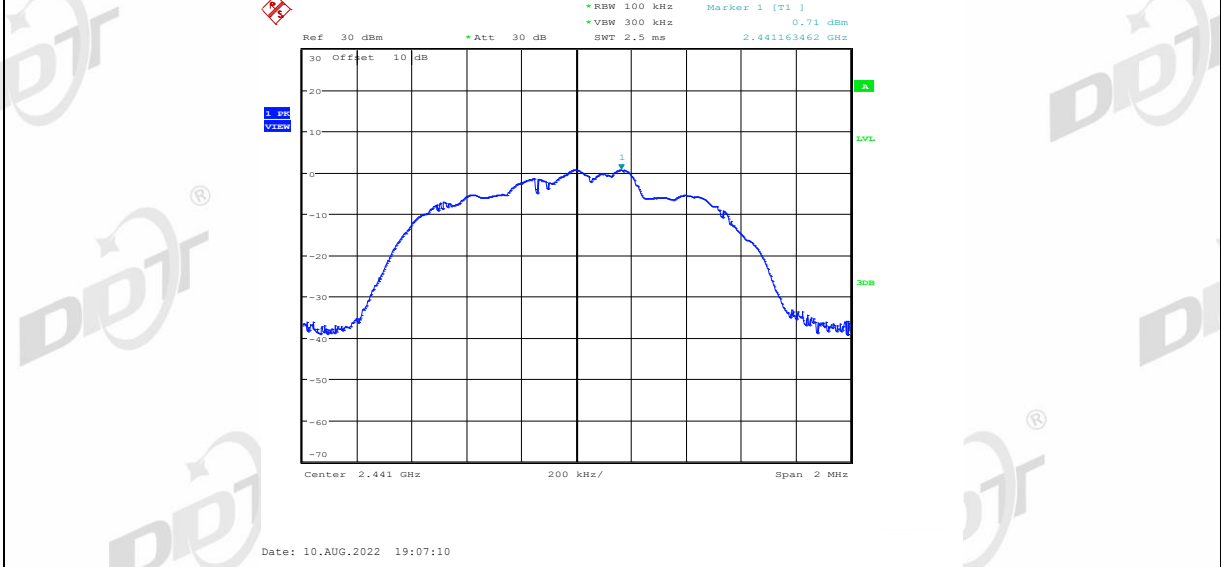
3DH5_Ant1_2402_30~1000



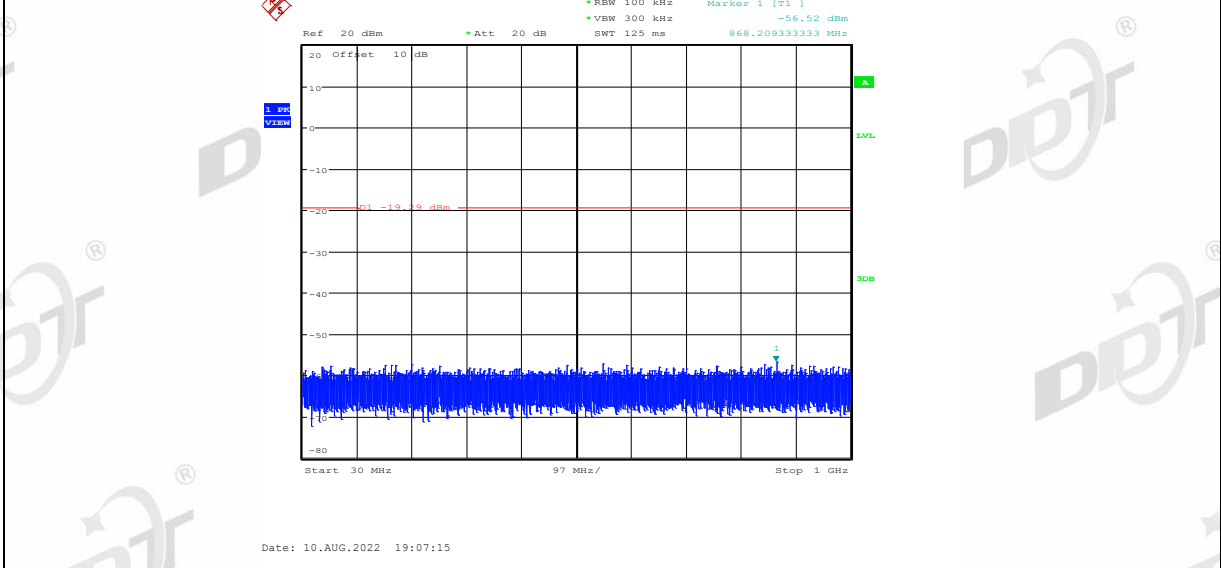
3DH5_Ant1_2402_1000~26500



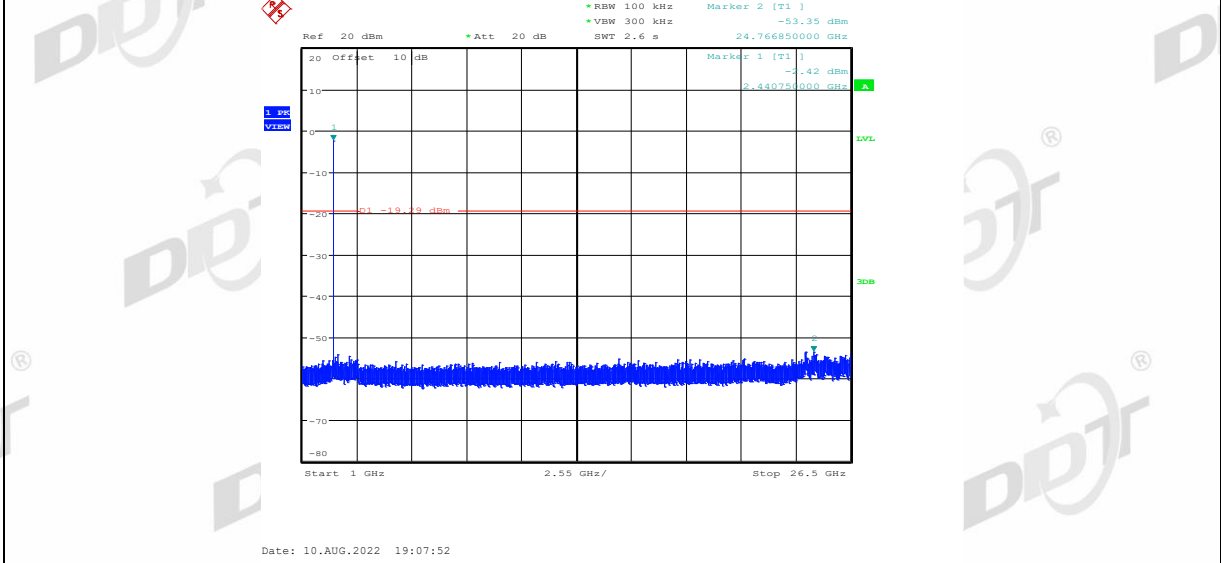
3DH5_Ant1_2441_0~Reference



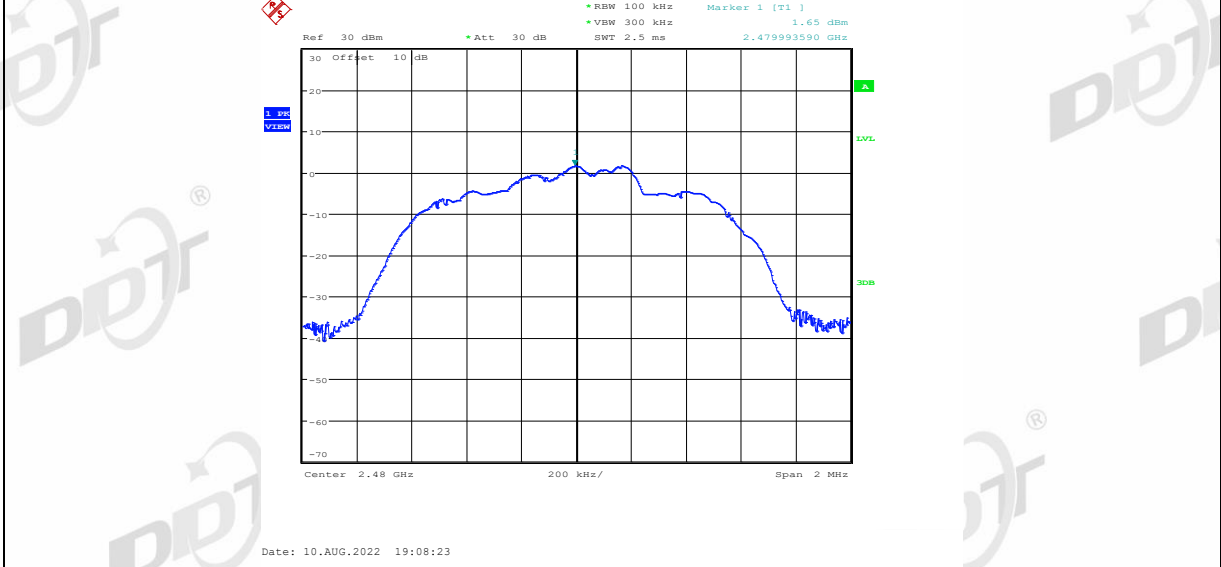
3DH5_Ant1_2441_30~1000



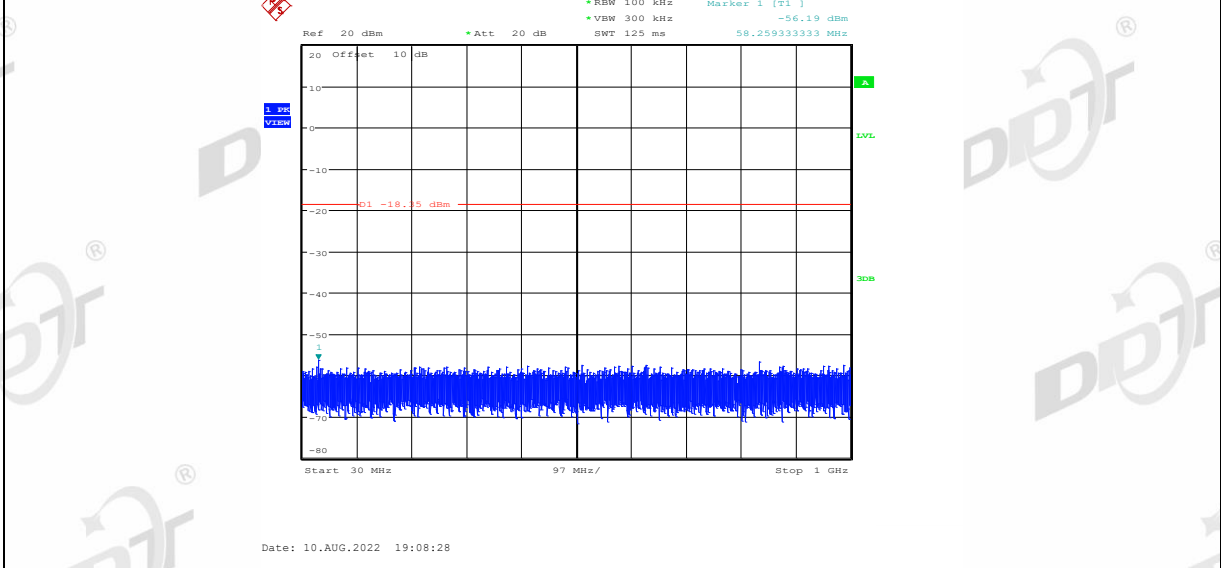
3DH5_Ant1_2441_1000~26500

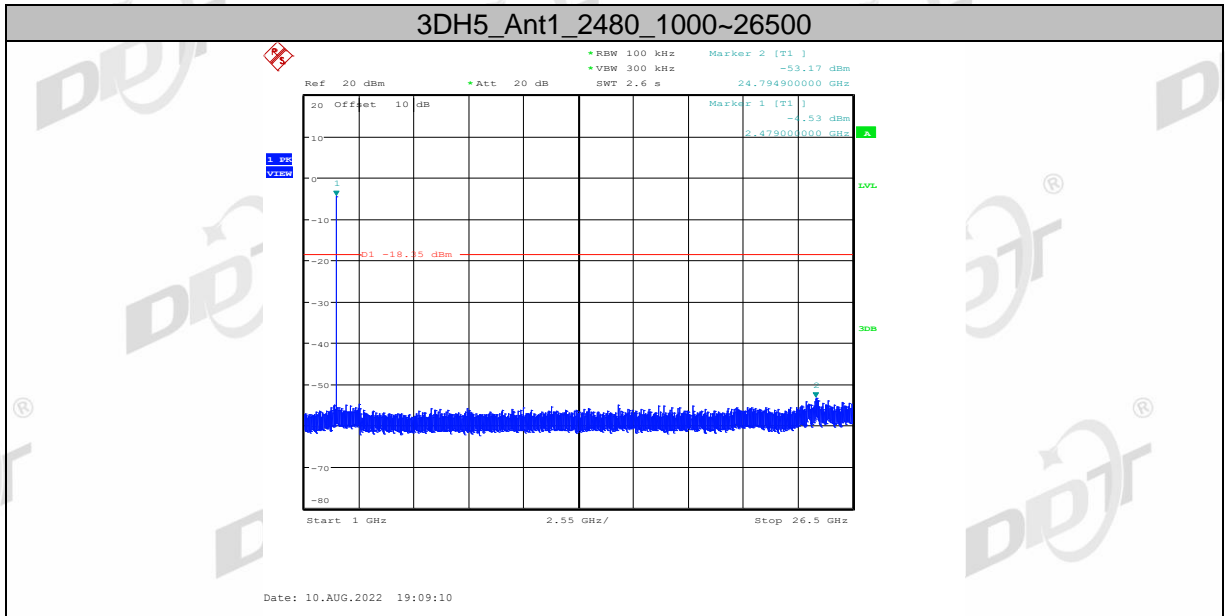


3DH5_Ant1_2480_0~Reference



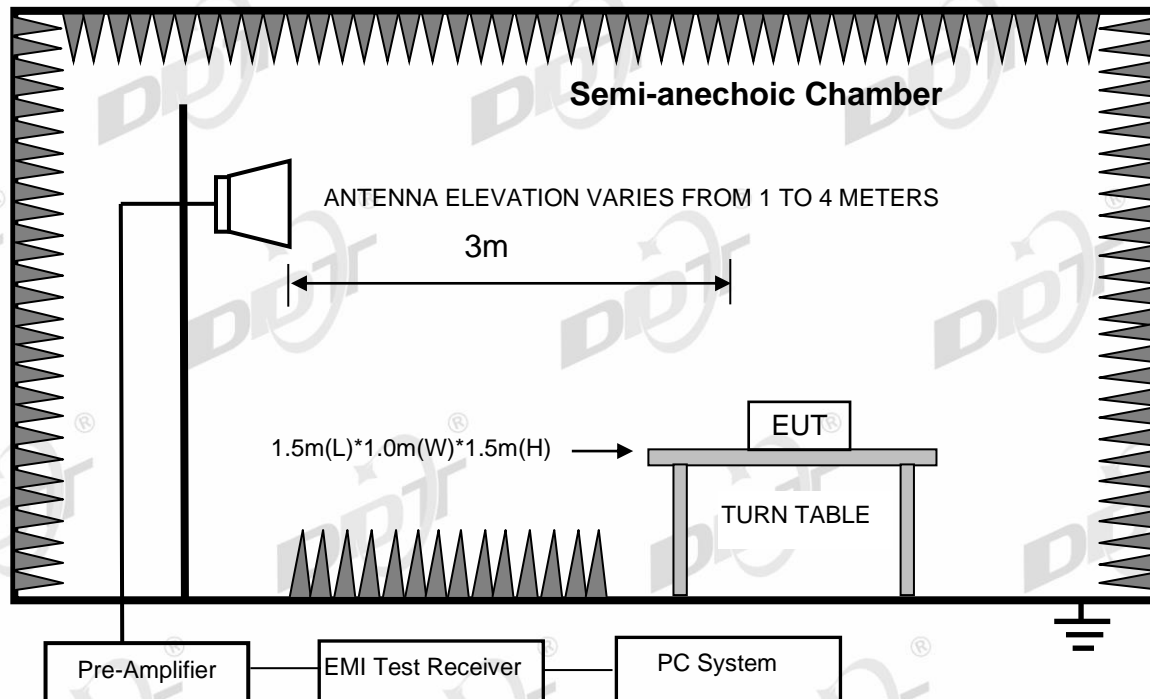
3DH5_Ant1_2480_30~1000





12. Band Edge Compliance (Radiated Method)

12.1. Block diagram of test setup



12.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

12.3. Test procedure

Same with clause 10.3 except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

12.4. Test result

Pass. (See below detailed test result)

Remark: hopping on and hopping off mode all have been test, hopping off mode is worse and reported only in this report.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-27

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

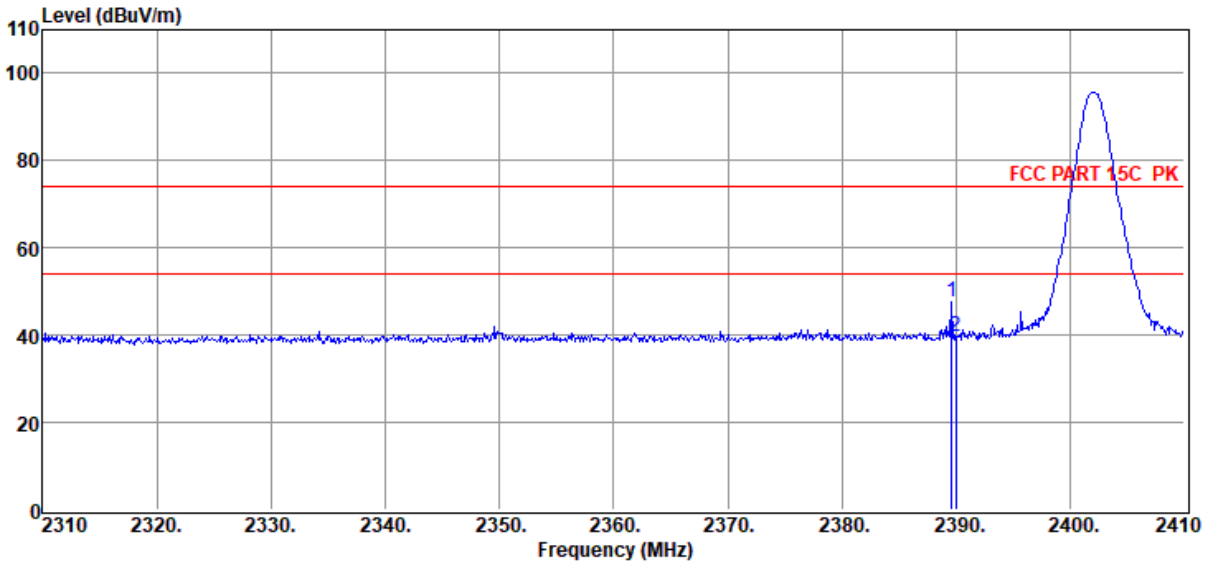
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : DH5 2402

Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.60	57.29	27.40	39.59	1.71	0.72	47.53	74.00	-26.47	Peak	HORIZONTAL
2	2390.00	49.48	27.40	39.60	1.71	0.72	39.71	74.00	-34.29	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-27

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

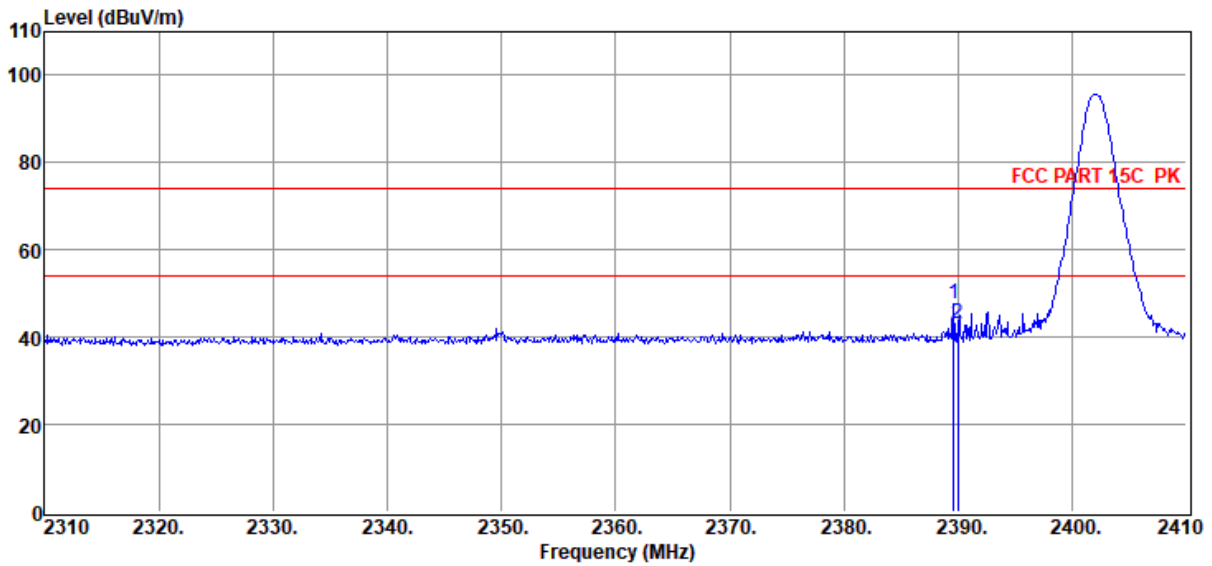
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : DH5 2402

Data: 14



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.60	57.29	27.40	39.59	1.71	0.72	47.53	74.00	-26.47	Peak	VERTICAL
2	2390.00	52.82	27.40	39.60	1.71	0.72	43.05	74.00	-30.95	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-27

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

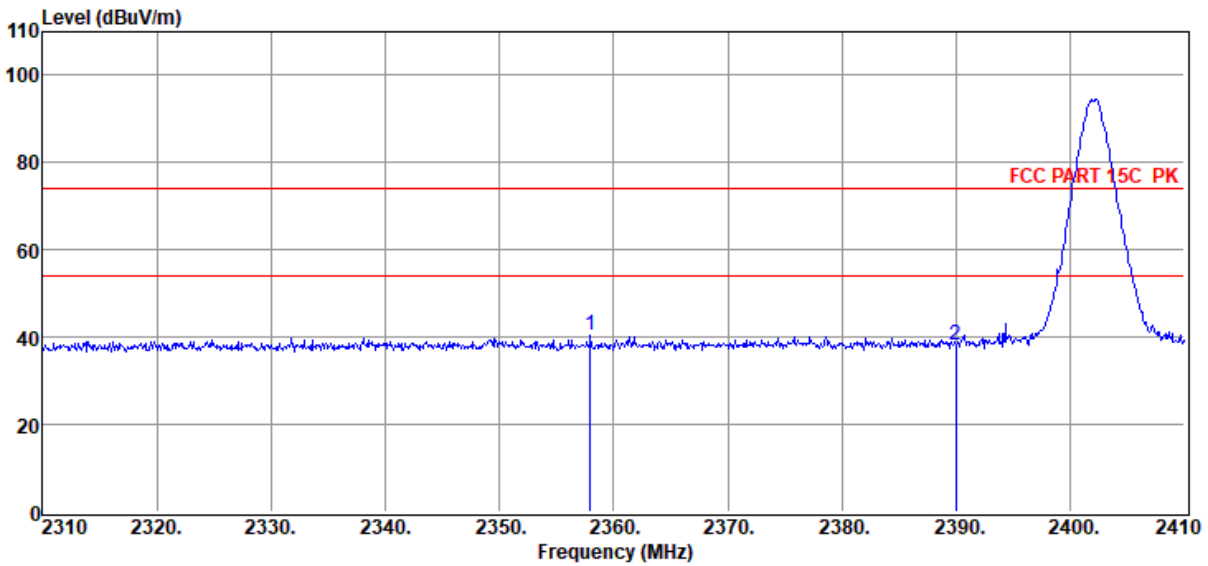
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 2DH5 2402

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2358.00	50.31	27.34	39.58	1.70	0.72	40.49	74.00	-33.51	Peak	HORIZONTAL
2	2390.00	47.80	27.40	39.60	1.71	0.72	38.03	74.00	-35.97	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-27

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

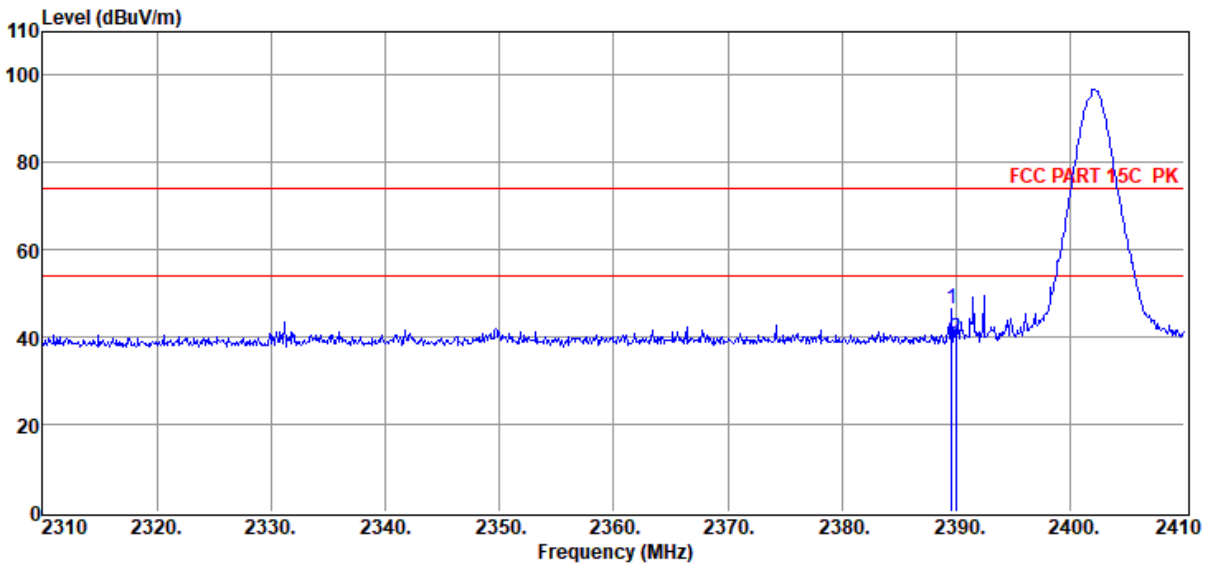
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 2DH5 2402

Data: 16



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.60	56.42	27.40	39.59	1.71	0.72	46.66	74.00	-27.34	Peak	VERTICAL
2	2390.00	49.48	27.40	39.60	1.71	0.72	39.71	74.00	-34.29	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22062728-2E MC-50BT\FCC ABOVE 1G .EM6

Test Date : 2022-07-27

Tested By : Bairong

EUT : Wireless Headphones with Wide-Band Active Noise Cancelling

Model Number : MC-50BT

Power Supply : Battery

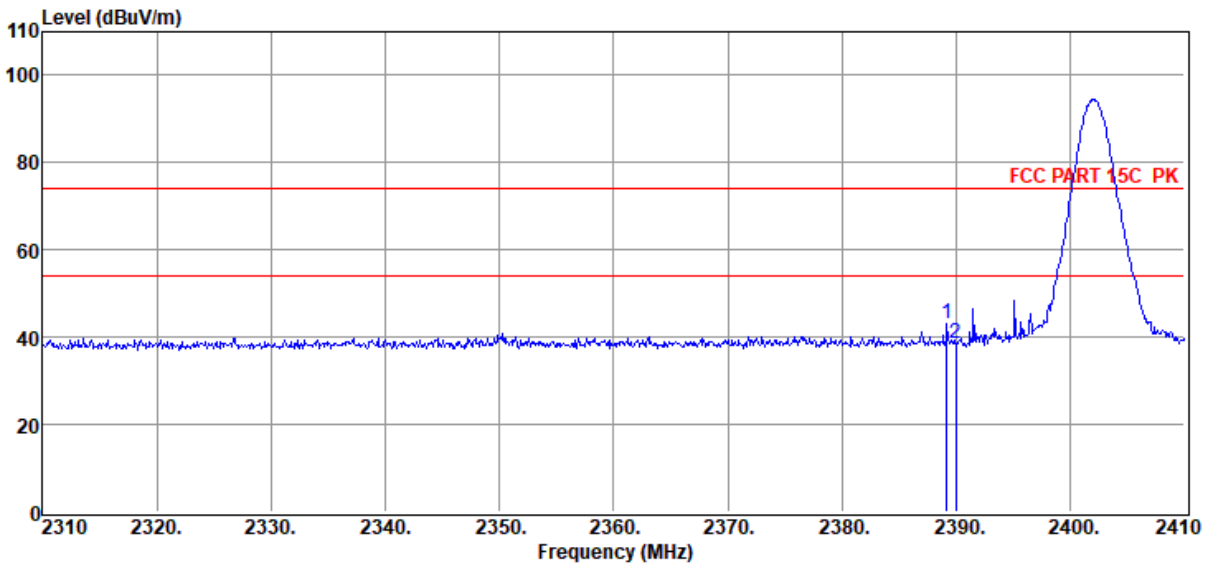
Test Mode : Tx Mode

Condition : Temp:22°C,Humi:59.4%,Press:100.3kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 3DH5 2402

Data: 17



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.20	52.94	27.40	39.59	1.71	0.72	43.18	74.00	-30.82	Peak	HORIZONTAL
2	2390.00	48.24	27.40	39.60	1.71	0.72	38.47	74.00	-35.53	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.