

FCC/ISED - TEST REPORT

Report Number	: 6895025117001	Date of Issue:	2025-09-01
Model/HVIN	: E66		
Product Type	: True Wireless Stereo Earphones		
Applicant	: Dongguan Huien Electronic Technology Co., Ltd		
Address	: Room 301, Building of 1, No. 429, Changdong Road, Changping Town, Dongguan city, Guangdong Province, China		
Manufacturer	: Dongguan Huien Electronic Technology Co., Ltd		
Address	: Room 301, Building of 1, No. 429, Changdong Road, Changping Town, Dongguan city, Guangdong Province, China		
Factory	: Dongguan Huien Electronic Technology Co., Ltd		
Address	: Room 301, Building of 1, No. 429, Changdong Road, Changping Town, Dongguan city, Guangdong Province, China		
Test Result	: ☒ Positive ☐ Negative		
Total pages including Appendices	: 79		

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road
2, Nanshan District
Shenzhen 518052
P.R. China

Telephone: +86 755 8828 6998

Fax: +86 755 828 5299

FCC Registration
No.: 514049

FCC Designation
Number: CN5009

IC Registration
No.: 10320A

ISED CAB
identifier: CN0077

3 Description of the Equipment Under Test

Product:	True Wireless Stereo Earphones
Model no.:	E66
Hardware Version Identification No. (HVIN)	HE-057B
Hardware Version:	XRX-057-V0.1
Software Version/FVIN:	20250808-E-020V_241
Product Marketing Name (PMN)	True Wireless Stereo Earphones
Brand name:	N/A
FCC ID:	2A2BYHE-E66
IC:	29990-E66
Options and accessories:	N/A
Earphones Rating:	Battery: 3.7V=50mAh
RF Transmission Frequency:	2402MHz-2480MHz
No. of Operated Channel:	79
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	Ceramic Antenna
Antenna	Gain: 2.78dBi
Description of the EUT:	The Equipment Under Test (EUT) is True Wireless Stereo Earphones which Support Bluetooth function.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

NOTE 2: The circuit structure and design of the left and right ears are the same, the left ear was selected as representative for all testing unless otherwise specified.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5, April 2018 Amendment 1, March 2019 + Amendment 2, February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 4 July 2025	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE- LAN) Devices

Measurement Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance

ANSI C63.10-2020

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

5 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart C/ RSS-247 Issue 3/RSS-Gen Issue 5			
Test Condition		Test Site	Test Result
§15.207& RSS-Gen 8.8	Conducted emission AC power port	Site 1	Pass
§15.247(b)(1)& RSS-247 6.2.3.2	Conducted peak output power and Equivalent Isotropic Radiated Power	Site 1	Pass
§15.247(a)(1) & RSS-247 6.2.3.1 & RSS-Gen 6.7	20dB bandwidth and 99% occupied bandwidth	Site 1	Pass
§15.247(a)(1) & RSS-247 6.2.3.1	Carrier channel frequency separation	Site 1	Pass
§15.247(a)(1)(iii) & RSS-247 6.2.3.1	Number of hopping frequencies	Site 1	Pass
§15.247(a)(1)(iii) & RSS-247 6.2.3.1	Dwell Time - Average Time of Occupancy	Site 1	Pass
§15.247(d) & RSS-247 6.6	Spurious RF conducted emissions	Site 1	Pass
§15.247(d) & RSS-247 6.6	Band edge	Site 1	Pass
§15.247(d) & §15.209 & §15.205 & RSS-247 6.6 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	Pass
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	Pass

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a Ceramic Antenna, which gain is 2.78dBi. In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2A2BYHE-E66, IC: 29990-E66, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules and RSS-247, RSS-GEN.

SUMMARY:

All tests according to the regulations cited on page 5 were.

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2025-07-08

Testing Start Date: 2025-07-08

Testing End Date: 2025-08-31

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

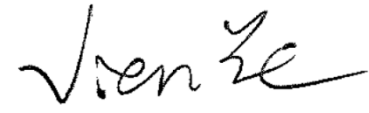
Reviewed by:


John Zhi
Section Manager

Prepared by:

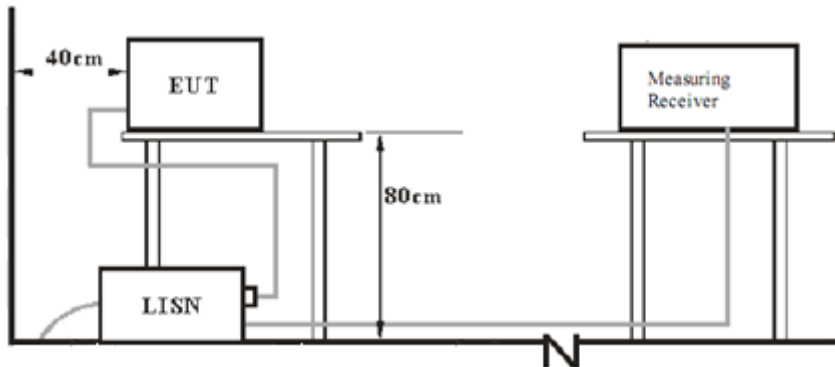

Hayden Hu
Project Engineer

Tested by:


Vier Ye
Test Engineer

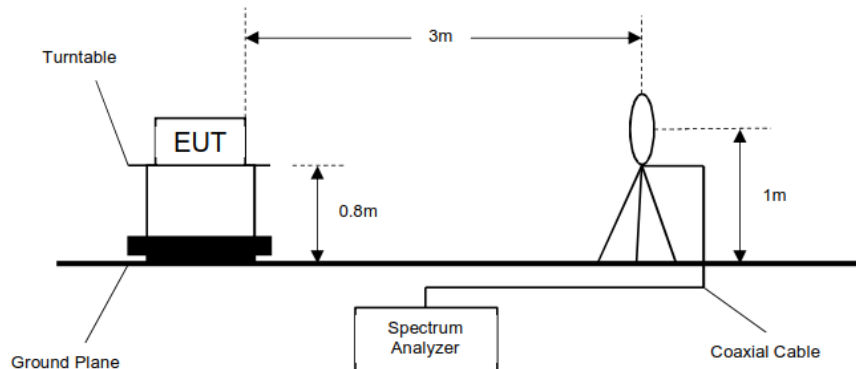
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

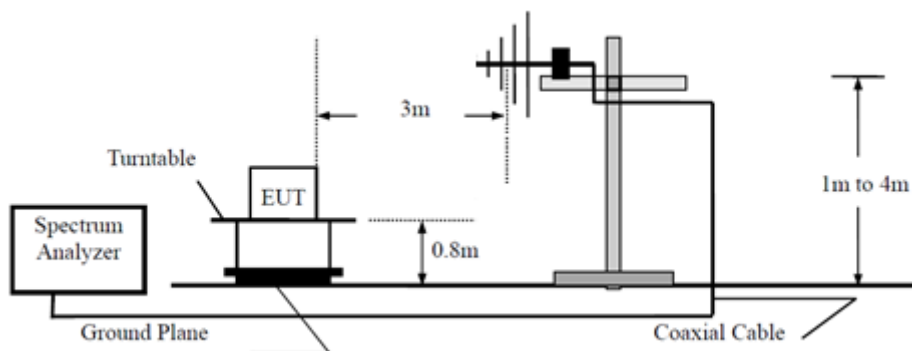


7.2 Radiated test setups

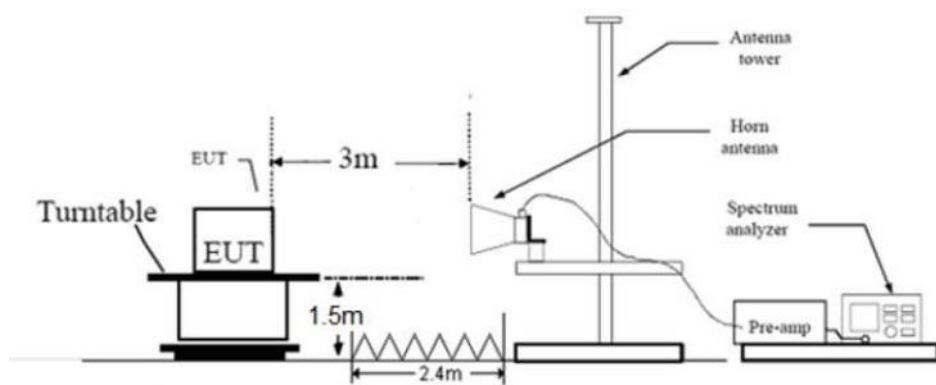
9KHz - 30MHz



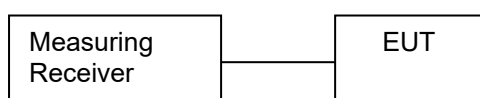
30MHz - 1GHz



Above 1GHz



7.3 Conducted RF test setups



8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
Adapter	Apple	A1443	---
Notebook	LENOVO	X220	---
Charging Base	Dongguan Huien Electronic Technology Co., Ltd	---	---

Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
---	---	---	---

Test software information:

Test Software Version	FCC_assist1.0.4	
Modulation	Setting TX Power	Packet Type
GFSK	9	PRBS9
$\pi/4$ -DQPSK	9	PRBS9
8DPSK	9	PRBS9

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

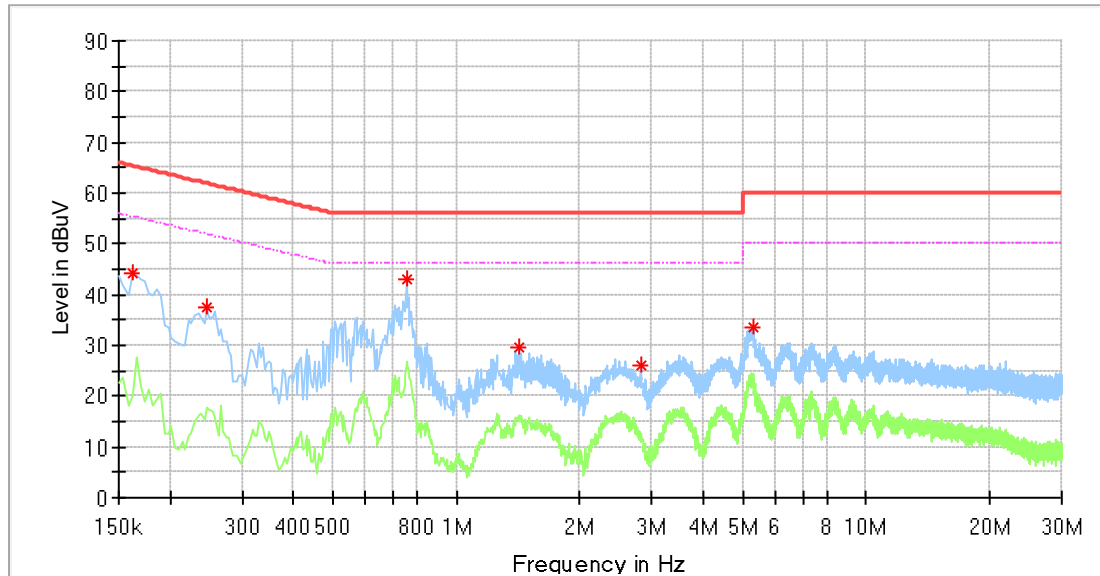
Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Conducted Emission

Product Type : True Wireless Stereo Earphones
 M/N : E66
 Operating Condition : Charging + Transmitting
 Test Specification : Line
 Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.162000	44.34	---	65.36	21.02	L1	10.04
0.246000	37.52	---	61.89	24.37	L1	10.01
0.754000	43.02	---	56.00	12.98	L1	10.05
1.422000	29.71	---	56.00	26.29	L1	10.04
2.814000	26.22	---	56.00	29.78	L1	10.06
5.322000	33.42	---	60.00	26.58	L1	10.14

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---	---	---

Remark:

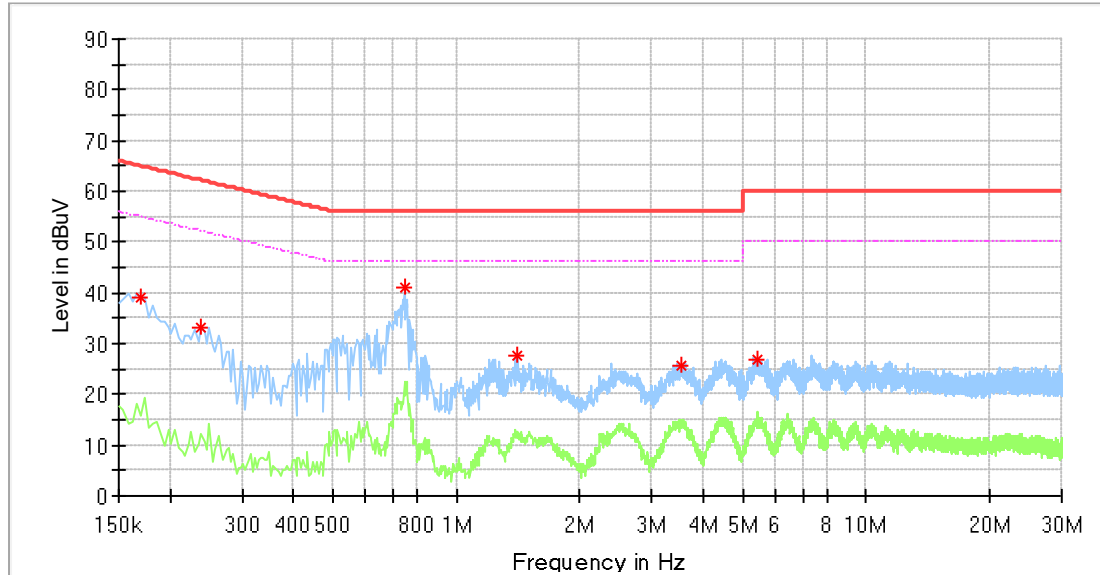
Max Peak= Read level + Corrector factor

Correct factor=cable loss + LISN factor

EUT has more than one typical operation, only the worst test mode will be recorded in this report.

Conducted Emission

Product Type : True Wireless Stereo Earphones
 M/N : E66
 Operating Condition : Charging + Transmitting
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.170000	39.04	---	64.96	25.92	N	10.10
0.238000	33.12	---	62.17	29.05	N	10.06
0.746000	41.19	---	56.00	14.81	N	10.05
1.414000	27.53	---	56.00	28.47	N	10.07
3.534000	25.83	---	56.00	30.17	N	10.14
5.442000	26.82	---	60.00	33.18	N	10.22

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---

Remark:

Max Peak= Read level + Corrector factor

Correct factor=cable loss + LISN factor

EUT has more than one typical operation, only the worst test mode will be recorded in this report.

9.2 Conducted Peak Output Power & EIRP

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following test receiver settings:
Span = approximately 5 times the 20dB bandwidth, centered on a hopping channel
RBW > the 20dB bandwidth of the emission being measured, VBW ≥ RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until all frequencies measured were complete.

Limits

Conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

EIRP limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤4	≤36

Remark: EIRP=Conducted output power + Antenna Gain

Conducted Peak Output Power & EIRP

Bluetooth Mode GFSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Antenna Gain dBi	EIRP dBm	Result
Low channel 2402MHz	0.23	2.78	3.01	Pass
Middle channel 2441MHz	1.08	2.78	3.86	Pass
High channel 2480MHz	1.61	2.78	4.39	Pass

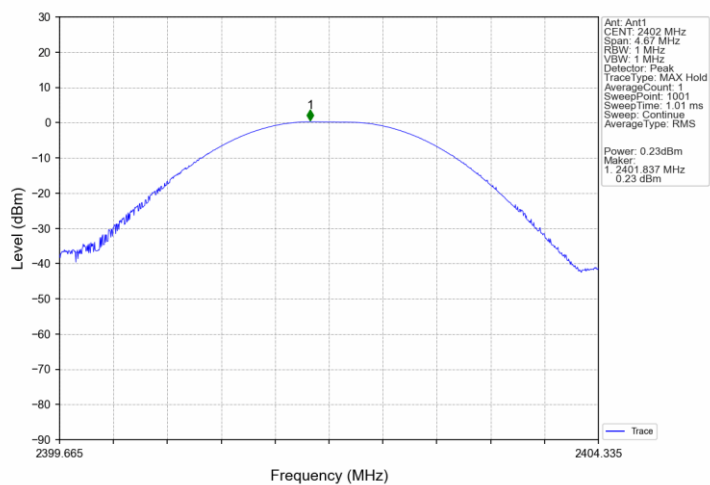
Bluetooth Mode $\pi/4$ -DQPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Antenna Gain dBi	EIRP dBm	Result
Low channel 2402MHz	1.15	2.78	3.93	Pass
Middle channel 2441MHz	-0.56	2.78	2.22	Pass
High channel 2480MHz	-0.07	2.78	2.71	Pass

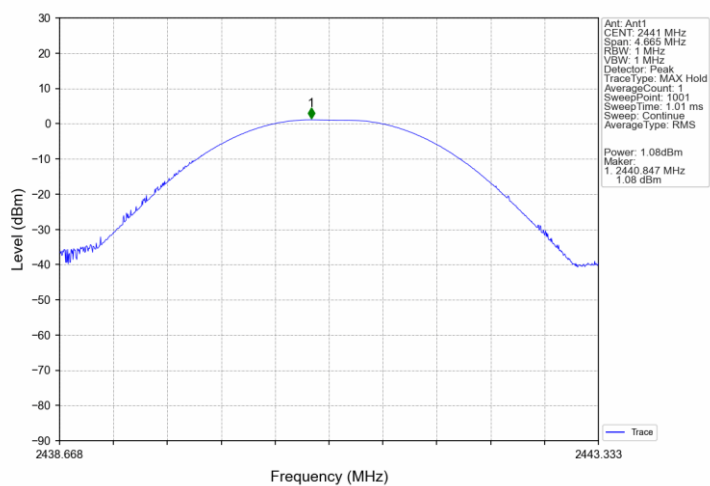
Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Antenna Gain dBi	EIRP dBm	Result
Low channel 2402MHz	-1.33	2.78	1.45	Pass
Middle channel 2441MHz	-0.47	2.78	2.31	Pass
High channel 2480MHz	0.07	2.78	2.85	Pass

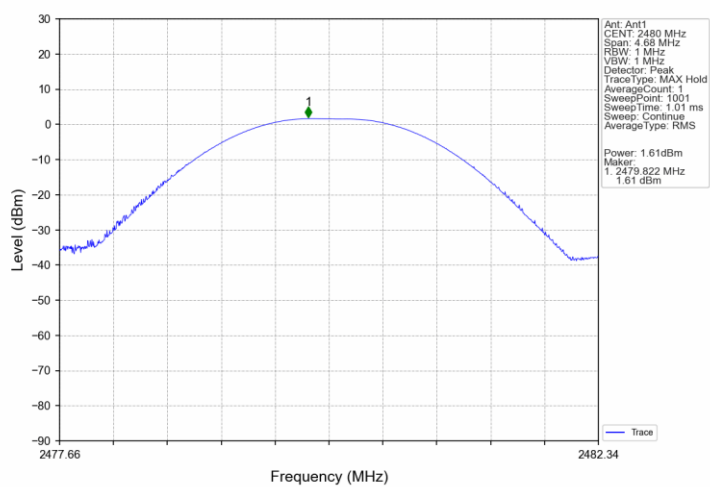
DH5 Ant1 2402



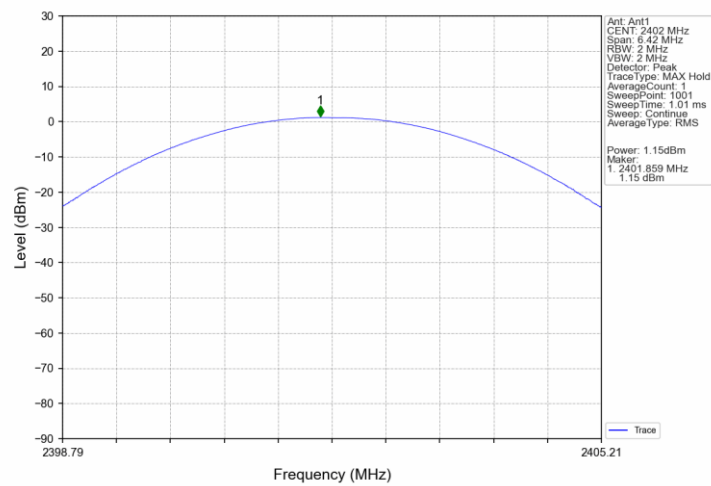
DH5 Ant1 2441



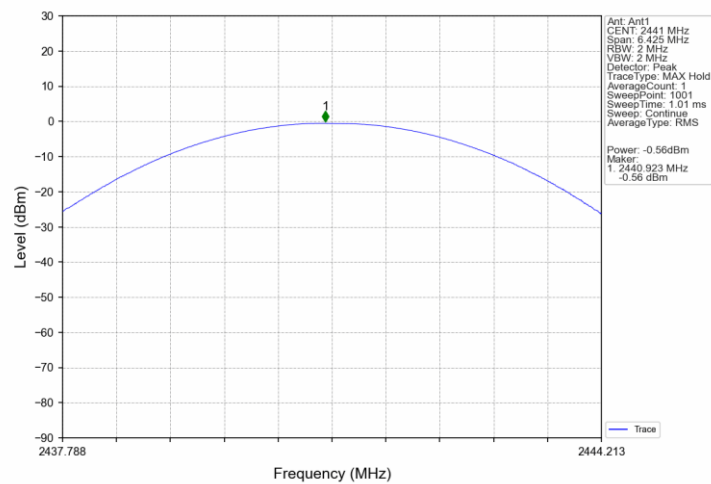
DH5 Ant1 2480



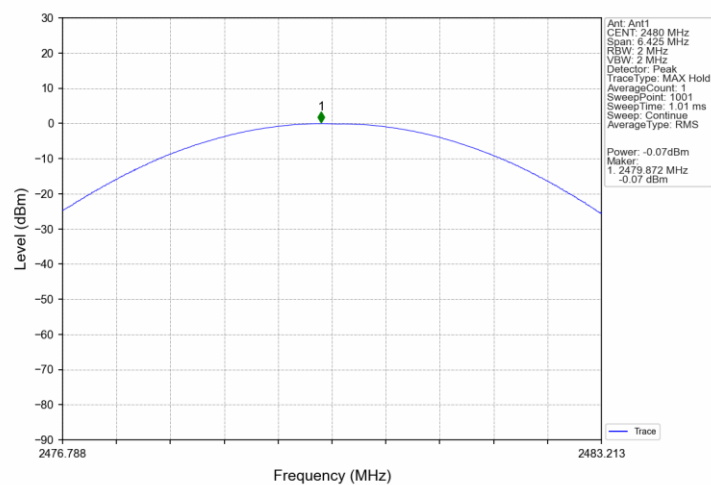
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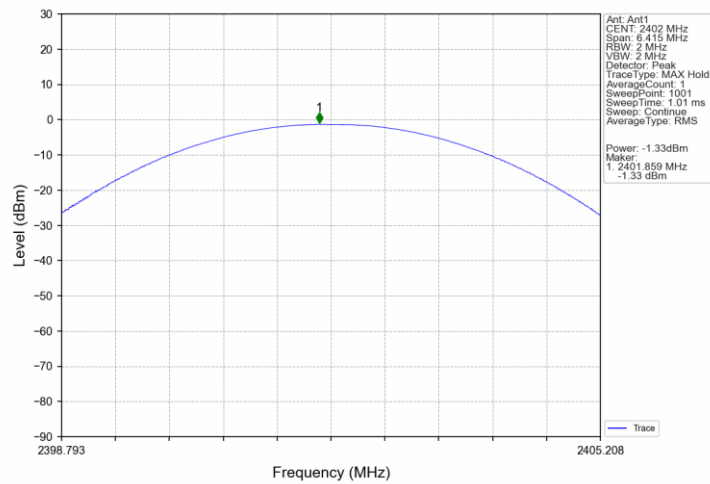
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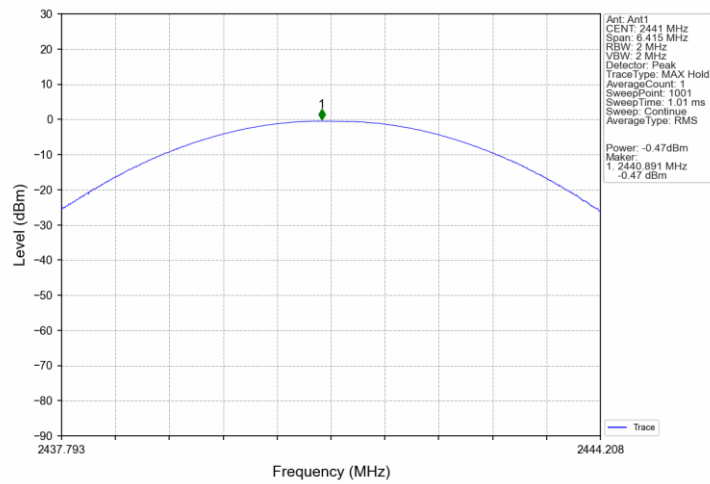
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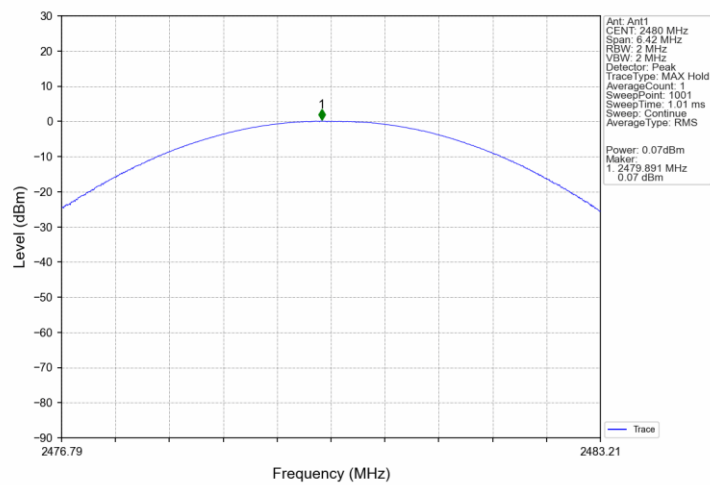
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



9.3 20 dB Bandwidth and 99% Occupied Bandwidth

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following test receiver settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW = 1% to 5% of the OBW, VBW $\geq$ 3RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Measure the frequency difference of two frequencies that were attenuated 20 dB/99% OBW from the reference level. Record the frequency difference as the emission bandwidth. Record the results.
5. Repeat above procedures until all frequencies measured were complete.

Limit

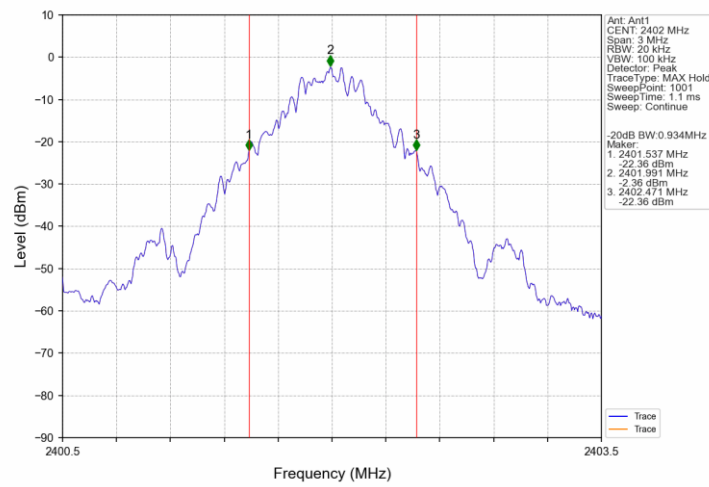
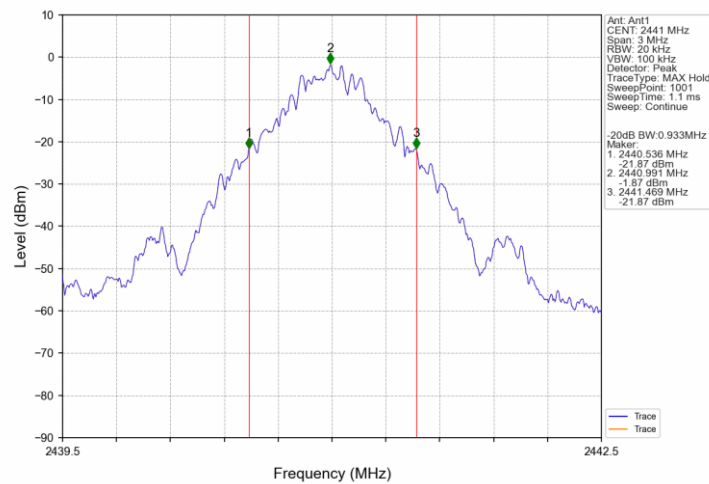
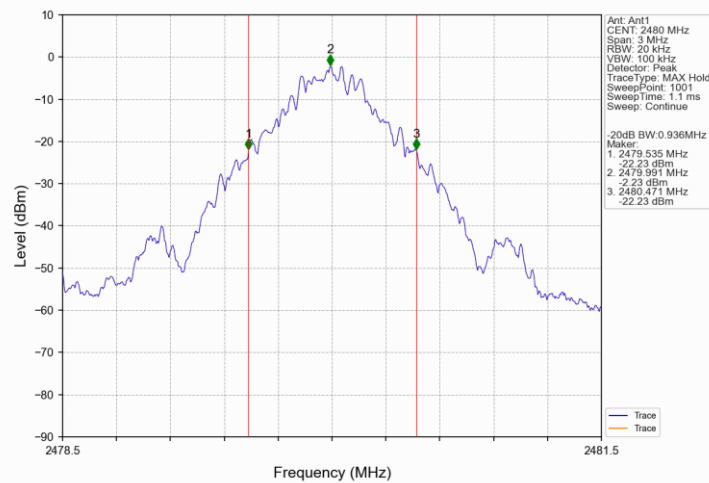
Limit [kHz]

N/A

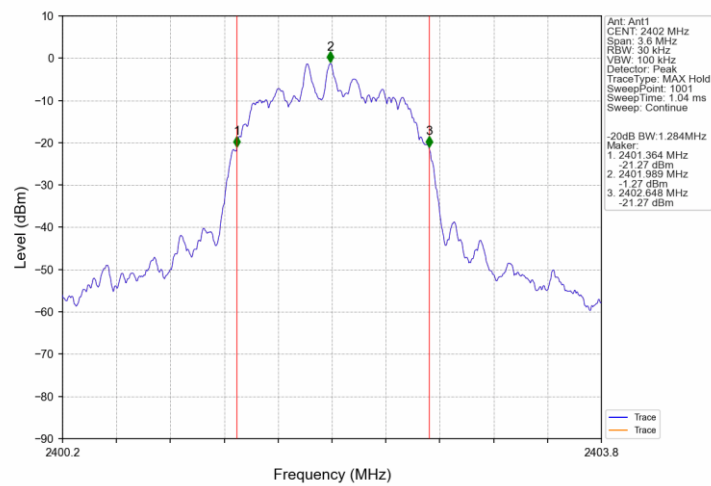
20 dB bandwidth and 99% Occupied Bandwidth

Test result

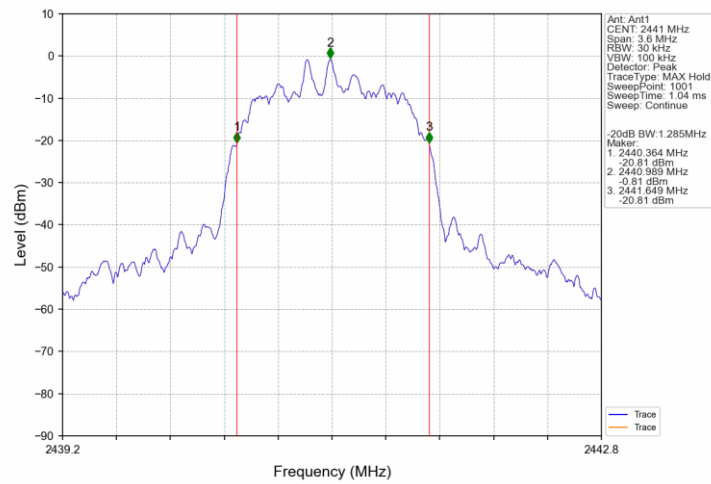
TestMode	Frequency MHz	20 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz	Result
GFSK	2402	0.934	0.857	--	Pass
GFSK	2441	0.933	0.861	--	Pass
GFSK	2480	0.936	0.860	--	Pass
$\pi/4$ -DQPSK	2402	1.284	1.170	--	Pass
$\pi/4$ -DQPSK	2441	1.285	1.171	--	Pass
$\pi/4$ -DQPSK	2480	1.285	1.171	--	Pass
8DPSK	2402	1.283	1.168	--	Pass
8DPSK	2441	1.283	1.171	--	Pass
8DPSK	2480	1.284	1.170	--	Pass

20 dB Bandwidth**DH5 Ant1 2402****DH5 Ant1 2441****DH5 Ant1 2480**

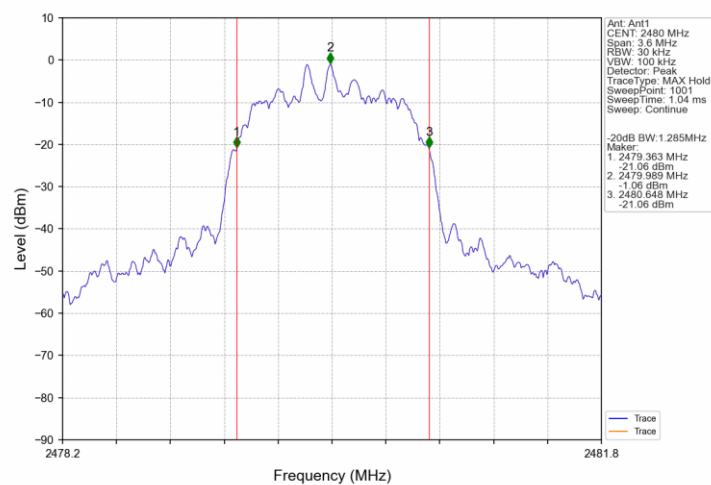
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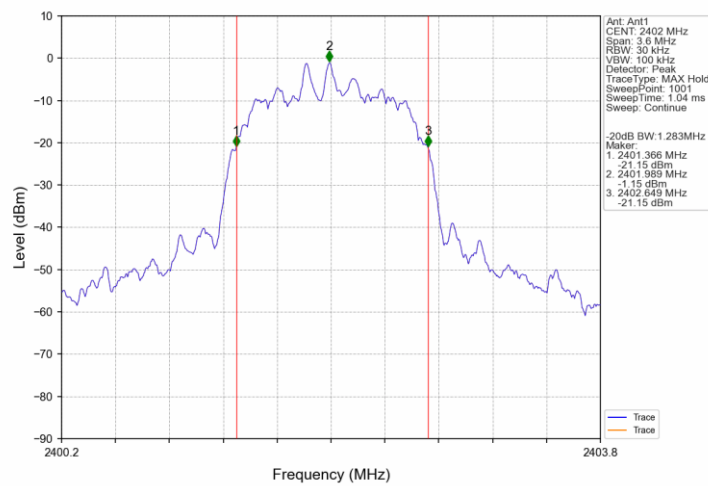
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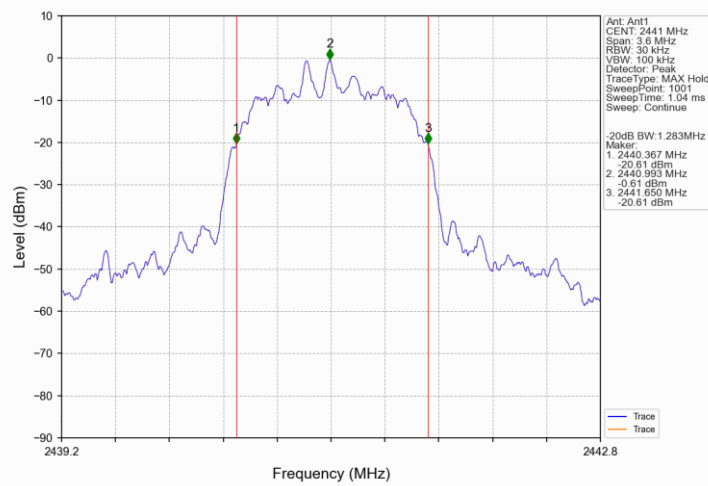
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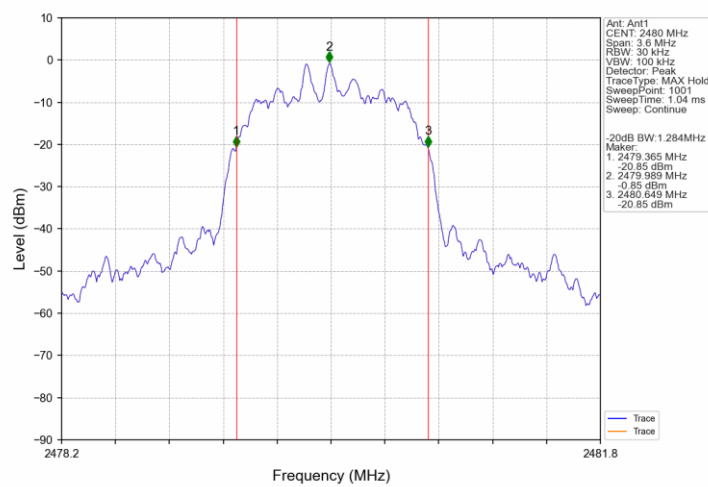
3DH5_Ant1_2402



3DH5_Ant1_2441

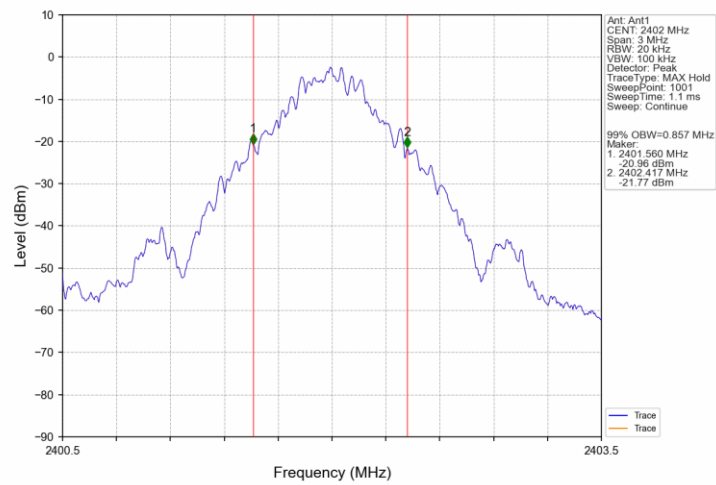


3DH5_Ant1_2480

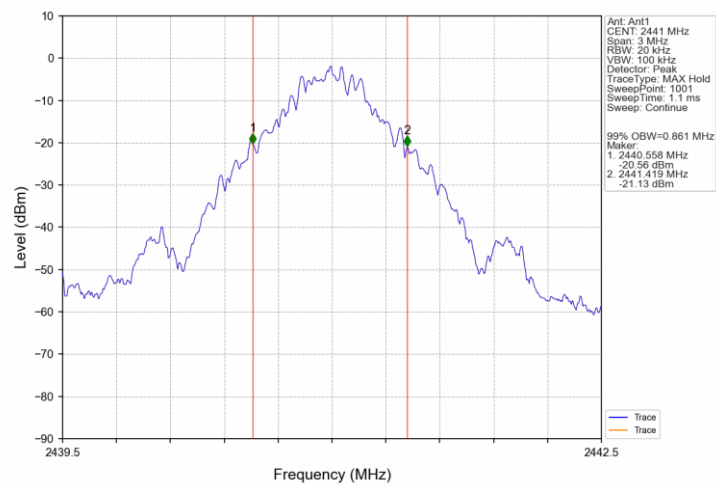


99% Occupied Bandwidth

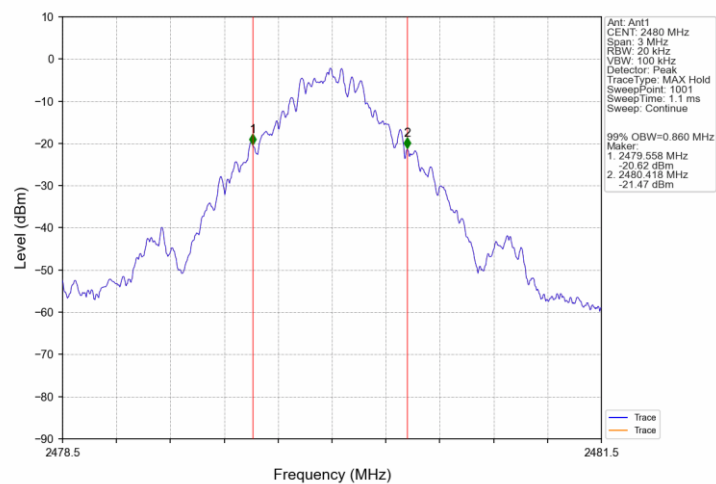
DH5_Ant1_2402



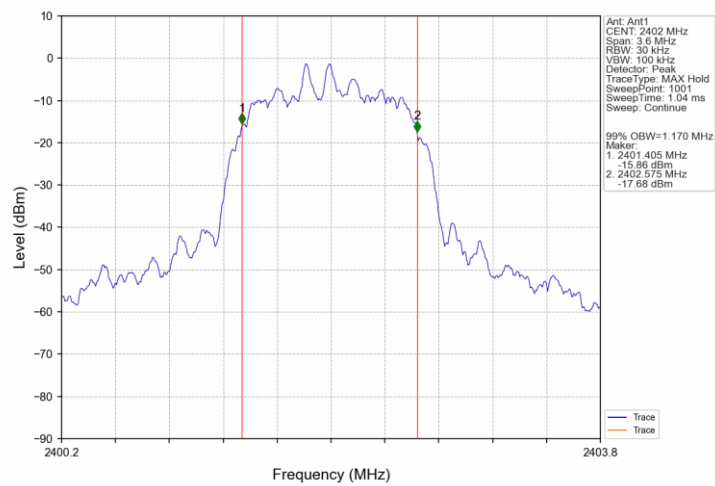
DH5_Ant1_2441



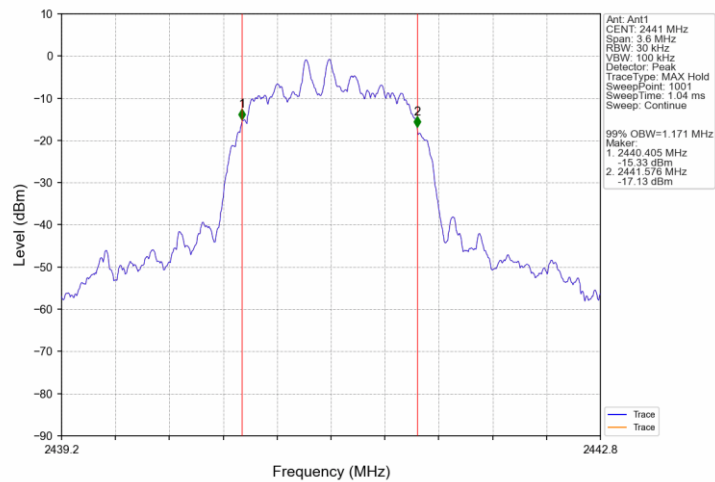
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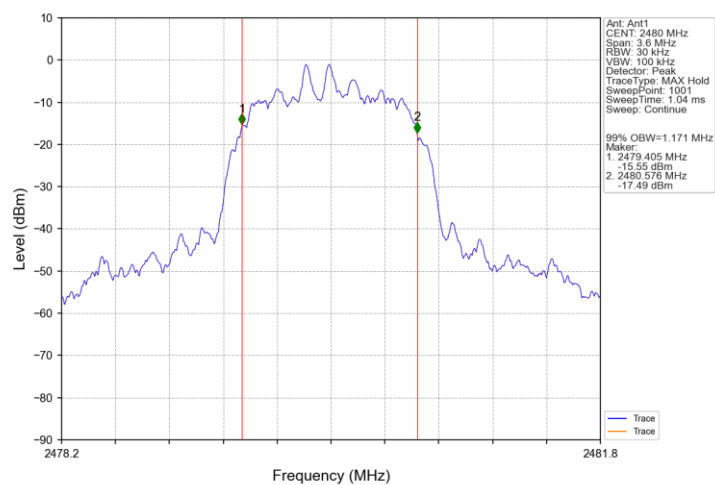
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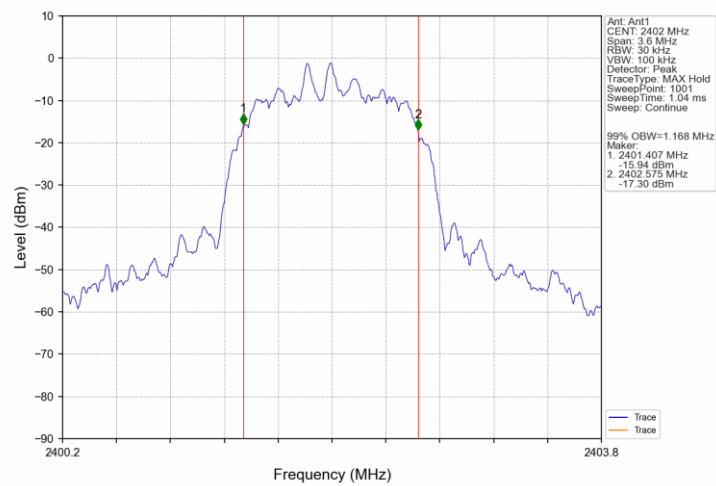
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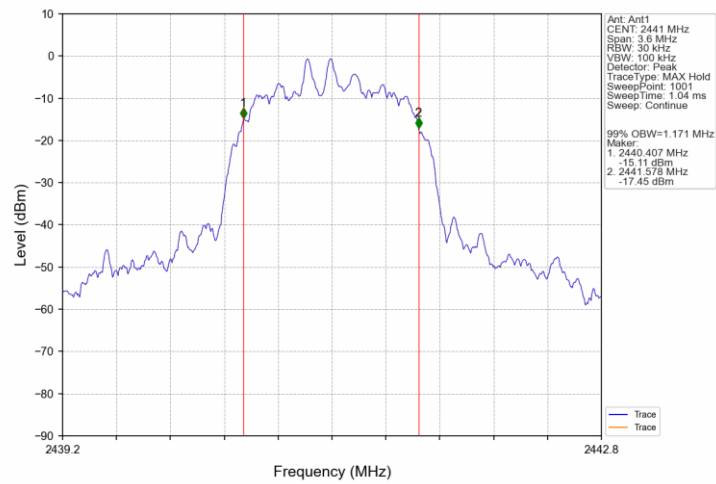
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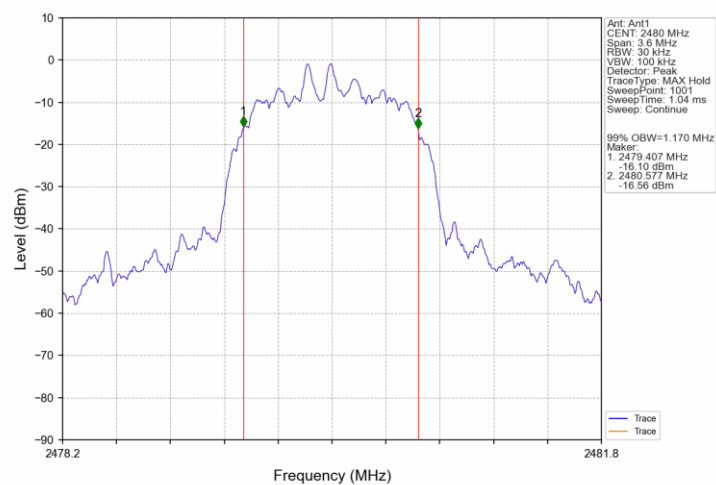
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



9.4 Carrier Frequency Separation

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit to hopping mode.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels, RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW $\geq$ RBW, Sweep = auto, Detector function = peak.
4. By using the Max-Hold function record the separation of two adjacent channels.
5. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function. Record the results.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Limit kHz
$\geq 25\text{kHz}$ or $2/3$ of the 20 dB bandwidth which is greater

Limit

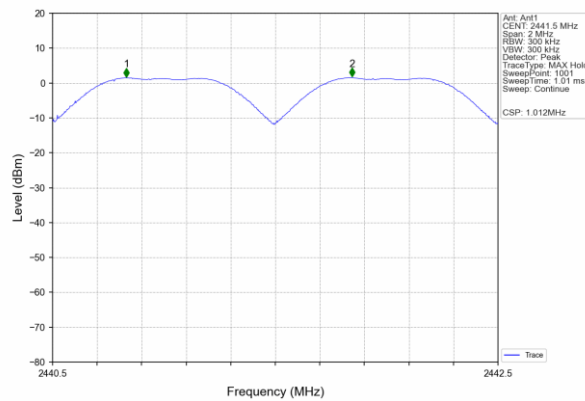
Modulation	Frequency MHz	2/3 of 20 dB Bandwidth kHz
GFSK	2441	936
$\pi/4$ -DQPSK	2441	857
8DPSK	2441	856

Carrier Frequency Separation

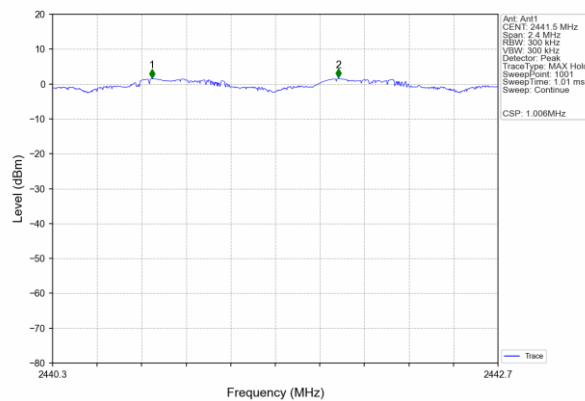
Test result: The measurement was performed with the typical configuration (normal hopping status).

Modulation	Frequency MHz	Carrier Frequency Separation MHz	Result
GFSK	2441	1.012	Pass
$\pi/4$ -DQPSK	2441	1.006	Pass
8DPSK	2441	1.006	Pass

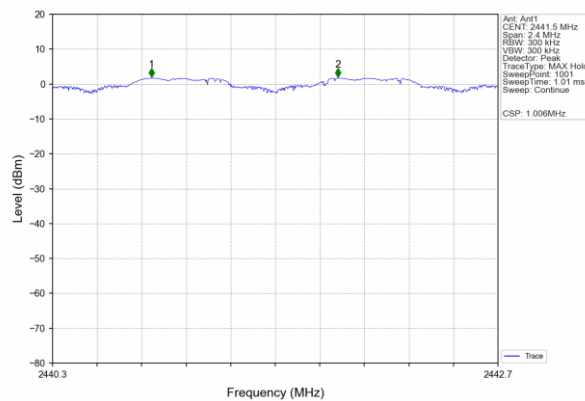
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



9.5 Number of Hopping Frequencies

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit to hopping mode.
3. Use the following spectrum analyzer settings:
Span = the frequency band of operation, RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace=Max hold.
4. Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

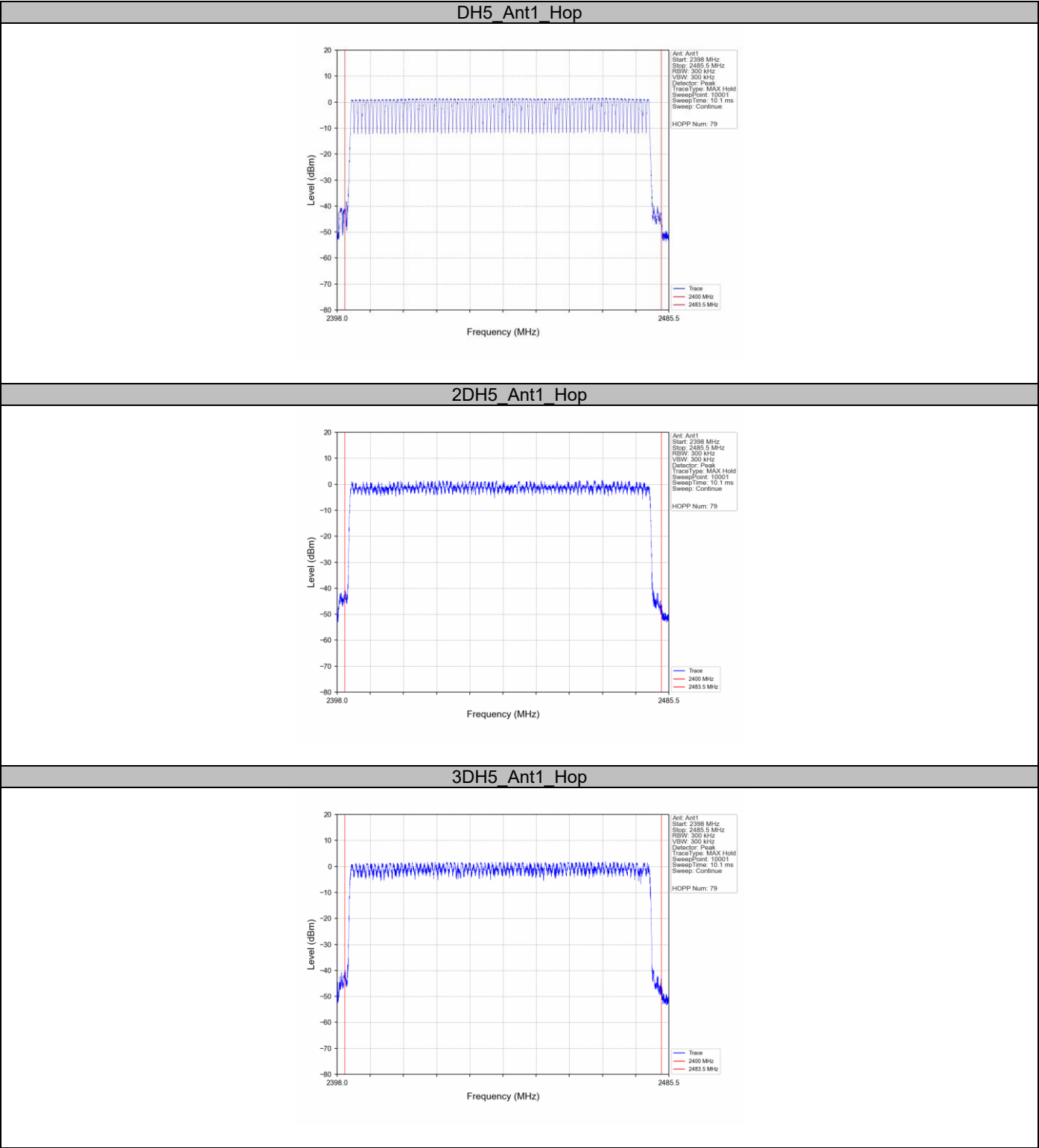
Limit

Limit
number

 ≥ 15

Number of Hopping Frequencies

Number of hopping frequencies	Result
79	Pass



9.6 Dwell Time

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit to hopping mode.
3. Span: Zero span, centered on a hopping channel.
4. RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
5. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
6. Detector function: Peak.
7. Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Limit

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

Dwell Time

Dwell time

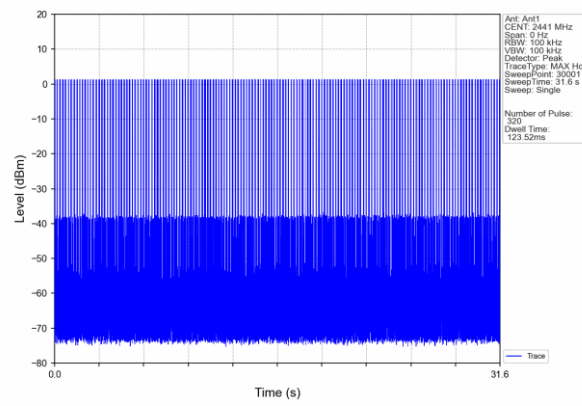
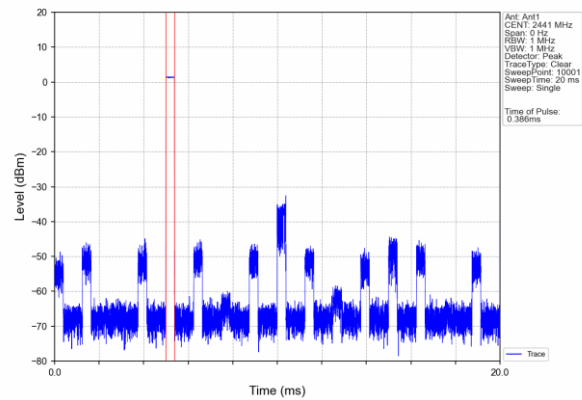
The maximum dwell time shall be 0.4 s.

The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s]}$

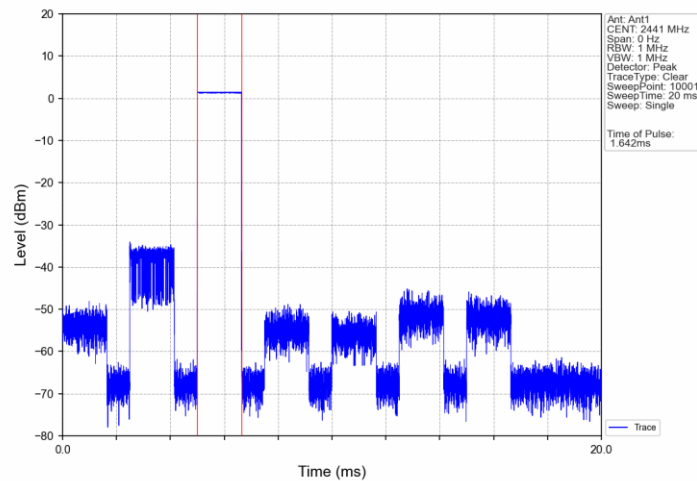
The Dwell Time = Burst Width * Total Hops.

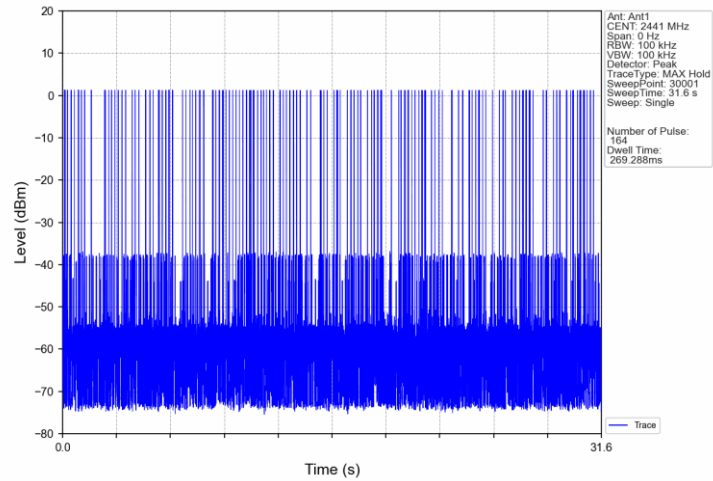
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	320	123.520	<=400	Pass
			DH3	1.642	31.600	164	269.288	<=400	Pass
			DH5	2.898	31.600	109	315.882	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	319	126.324	<=400	Pass
			2DH3	1.646	31.600	158	260.068	<=400	Pass
			2DH5	2.894	31.600	109	315.446	<=400	Pass
8DPSK	SISO	HOPP	3DH1	6.678	31.600	52	347.256	<=400	Pass
			3DH3	0.656	31.600	157	102.992	<=400	Pass
			3DH5	0.900	31.600	101	90.900	<=400	Pass

DH1_Ant1_Hop

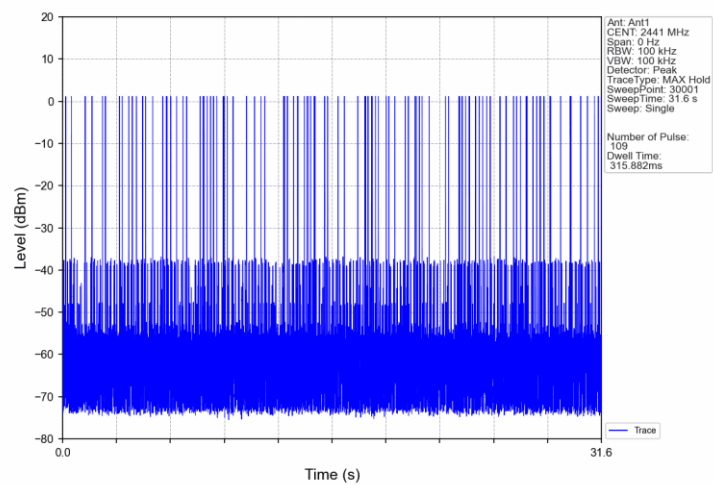
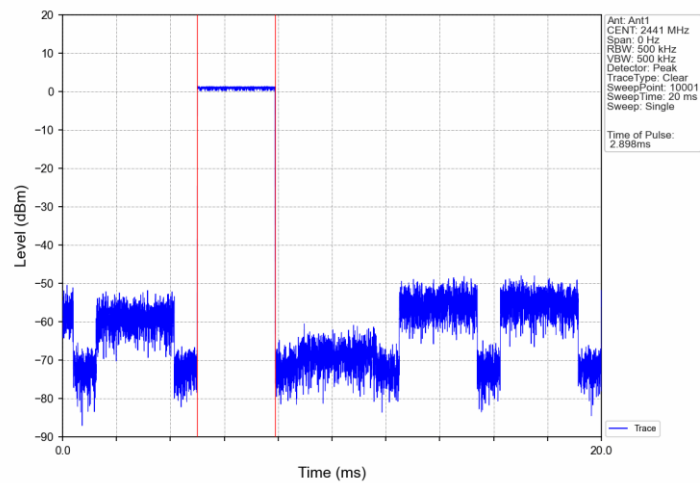


DH3_Ant1_Hop

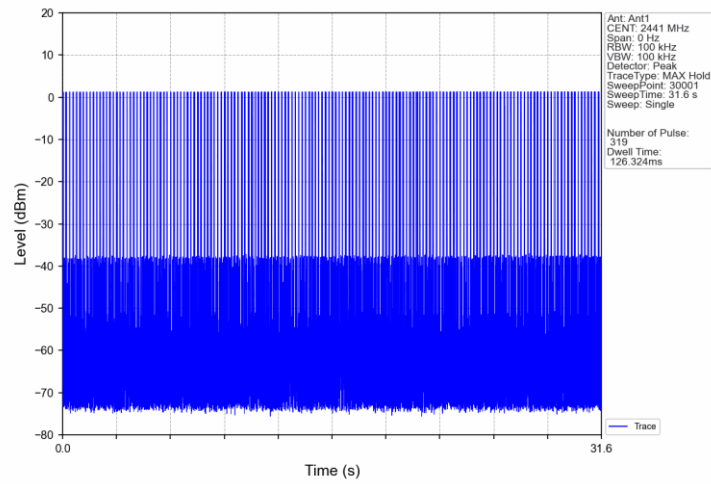
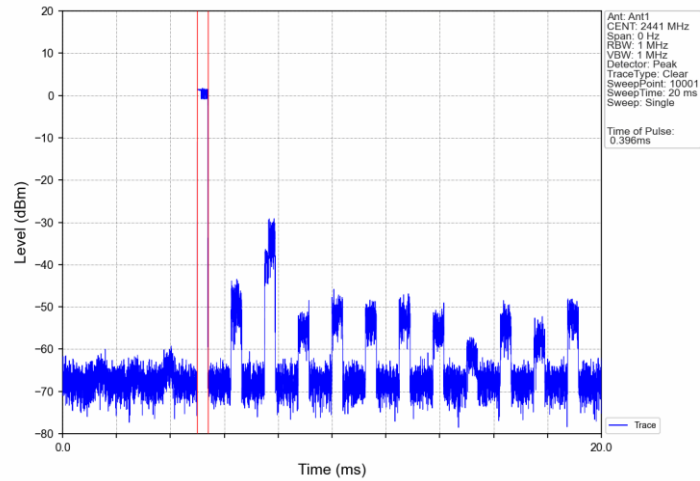




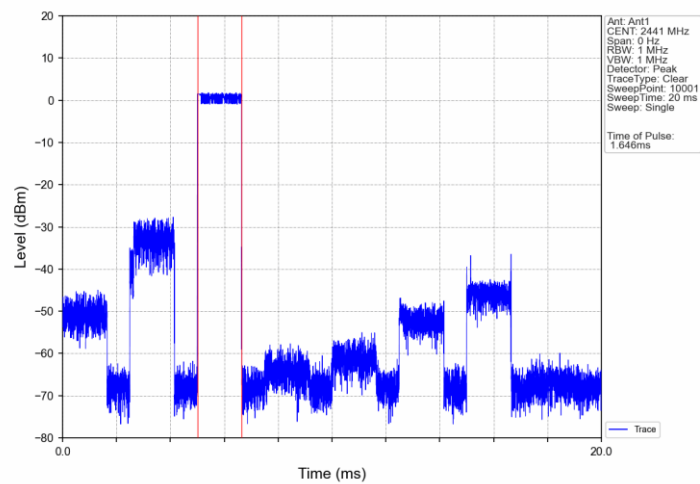
DH5_Ant1_Hop

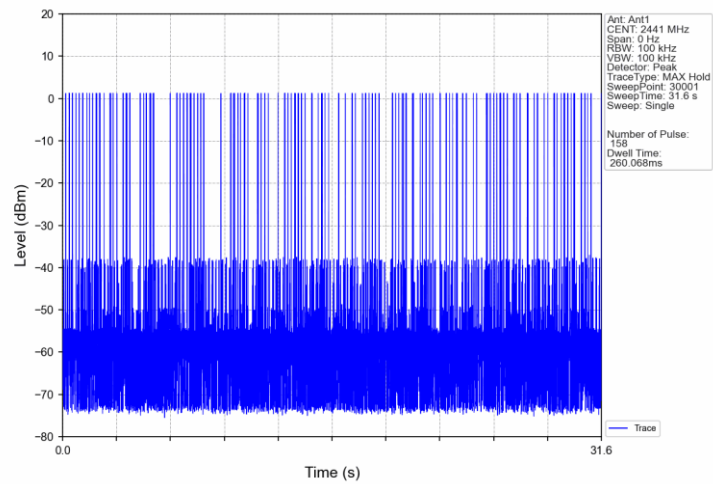


2DH1_Ant1_Hop

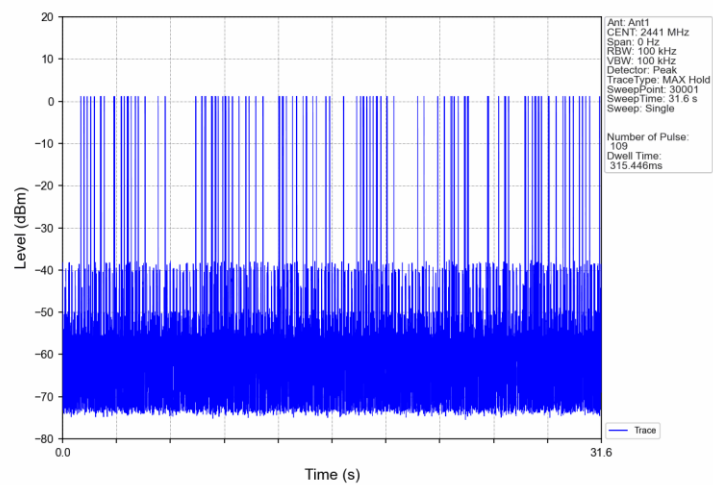
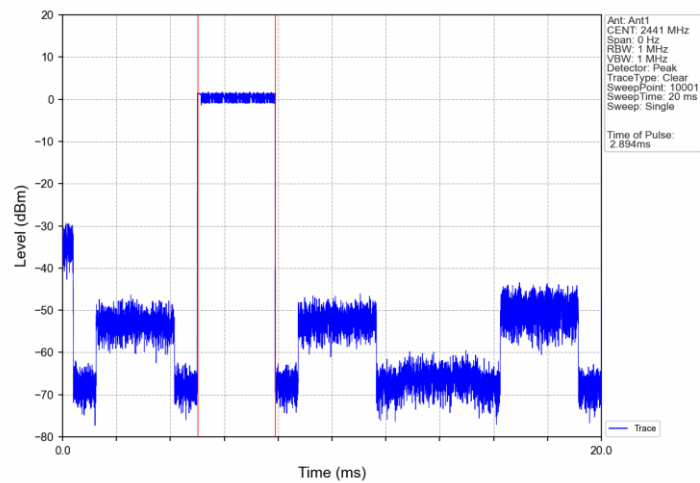


2DH3_Ant1_Hop

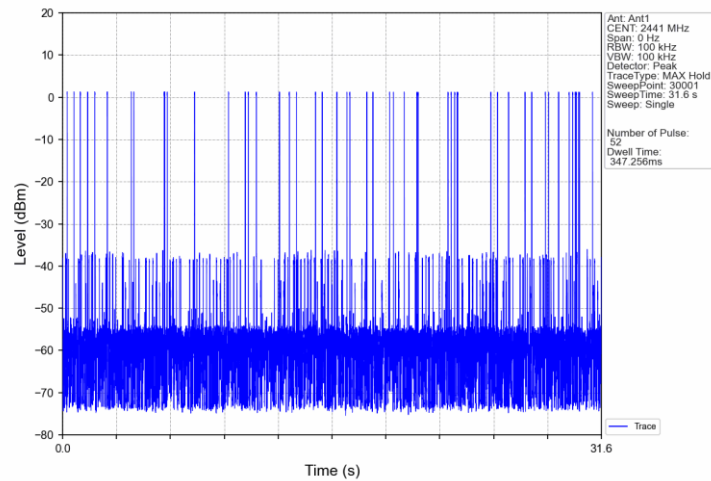
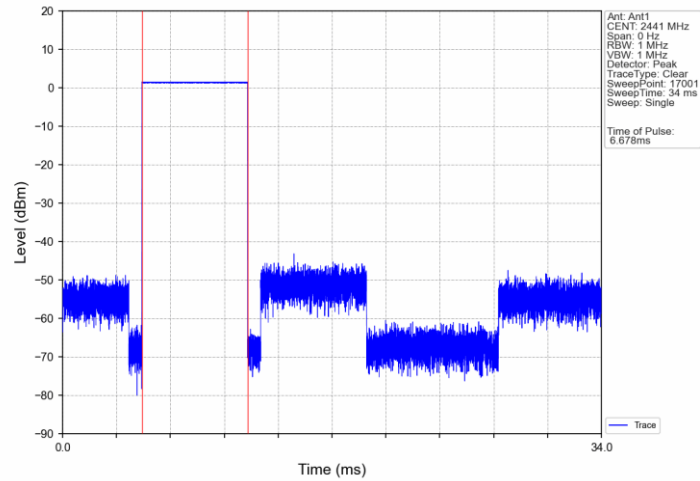




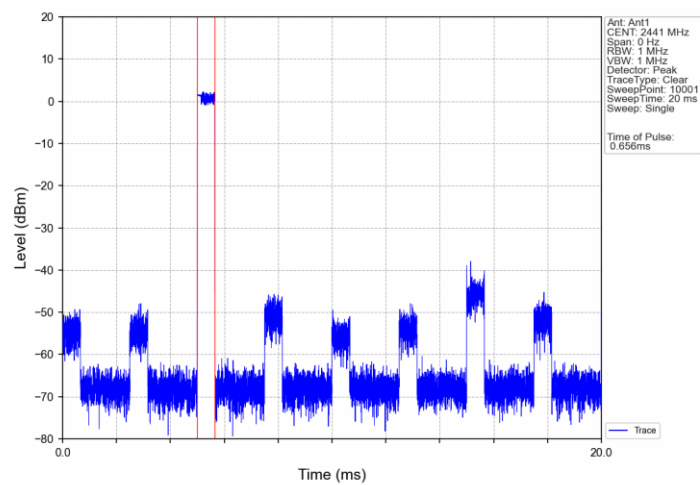
2DH5_Ant1_Hop

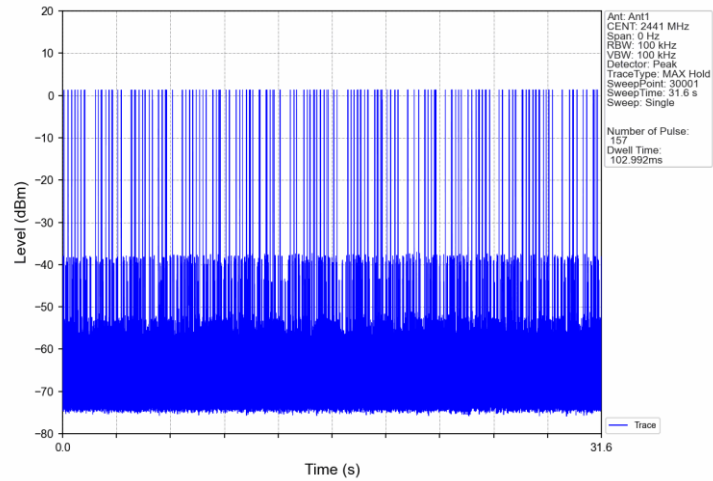


3DH1_Ant1_Hop

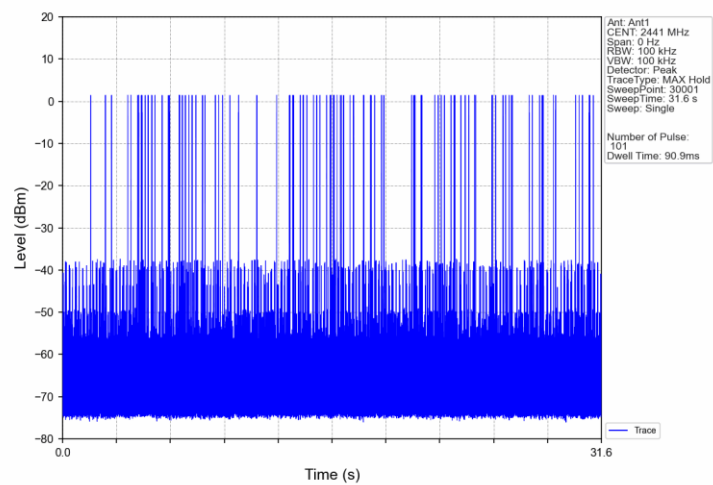
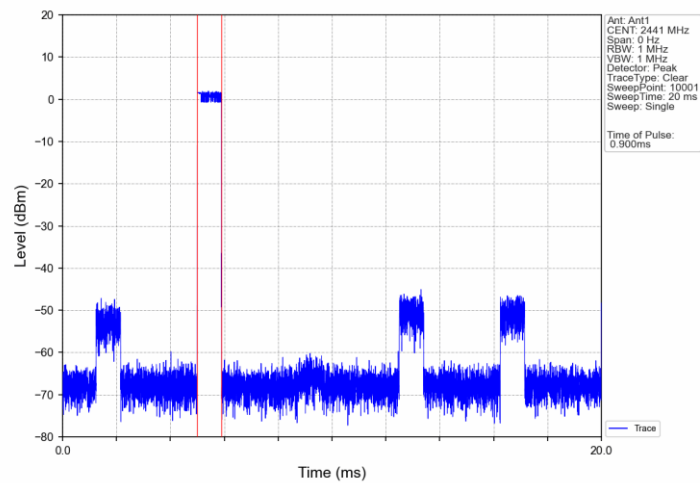


3DH3_Ant1_Hop





3DH5_Ant1_Hop



9.7 Spurious RF Conducted Emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector, Sweep = auto, Span = wide enough to capture the peak level of the in-band emission and all spurious emissions, Trace = max hold. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.
4. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF Conducted Emissions

Ref:

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.84
		2441	DH5	1	1.33
		2480	DH5	1	1.05
		HOPP	DH5	1	1.45
					1.45
Pi/4DQPSK	SISO	2402	2DH5	1	0.97
		2441	2DH5	1	1.47
		2480	2DH5	1	1.21
		HOPP	2DH5	1	1.56
					1.56
8DPSK	SISO	2402	3DH5	1	1.07
		2441	3DH5	1	1.62
		2480	3DH5	1	1.40
		HOPP	3DH5	1	1.72
					1.72

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

CSE:

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.84	-19.16	Pass
		2441	DH5	1	1.33	-18.67	Pass
		2480	DH5	1	1.05	-18.95	Pass
		HOPP	DH5	1	1.45	-18.55	Pass
					1.45	-18.55	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.97	-19.03	Pass
		2441	2DH5	1	1.47	-18.53	Pass
		2480	2DH5	1	1.21	-18.79	Pass
		HOPP	2DH5	1	1.56	-18.44	Pass
					1.56	-18.44	Pass
8DPSK	SISO	2402	3DH5	1	1.07	-18.93	Pass
		2441	3DH5	1	1.62	-18.38	Pass
		2480	3DH5	1	1.40	-18.60	Pass
		HOPP	3DH5	1	1.72	-18.28	Pass
					1.72	-18.28	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.