



TEST REPORT

For Bluetooth-LE

Report No..... : CHTW25050059

Project No : SHT2502040501W

FCC ID : XAK436HDB

Applicant's name : AudioCodes Ltd.

Address : 6 Ofra Haza Street Oryehuda Israel

Product Name : IP Phone

Trade Mark..... : 

Model No..... : C436HD

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C § 15.247**

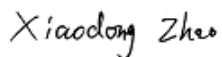
Date of receipt of test sample..... : 2025/3/6

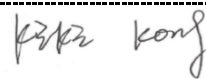
Date of testing : 2025/3/6- 2025/5/20

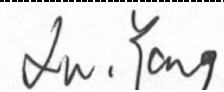
Date of issue..... : 2025/5/21

Result..... : **Pass**



Compiled by
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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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Test Report Form No. : R0054

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2024-05-21	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiangyu Wei
5.2	AC Conducted Emission	15.207	PASS	YATING.CHEN
5.3	Peak Output Power	15.247(b)(3)	PASS	Xiangyu Wei
5.4	Power Spectral Density	15.247(e)	PASS	Xiangyu Wei
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Xiangyu Wei
5.6	99% Occupied Bandwidth	-	PASS*1	Xiangyu Wei
5.7	Duty cycle	-	PASS*1	Xiangyu Wei
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Xiangyu Wei
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Yifan Wang
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifan Wang

Note:

- The measurement uncertainty is not included in the test result.
- *1: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	AudioCodes Ltd.
Address:	6 Ofra Haza Street Oryehuda Israel
Manufacturer:	AudioCodes Ltd.
Address:	6 Ofra Haza Street Oryehuda Israel
Factory:	SerNet (Suzhou) Technologies Corp
Address:	No. 8 Tangzhuang Road, Suzhou Industrial Park, Jiangsu, Suzhou, 215021, CN

3.2. Product Description

Main unit information:	
Product Name:	IP Phone
Trade Mark:	
Model No.:	C436HD
Listed Model(s):	-
Power supply:	DC 12.0V from adapter or 48V POE
Hardware version:	GGWV00810
Software version:	2.7.372
Accessory unit information:	
Adapter information:	Model:RD1201000-C55-26MG Input:100-240Va.c., 50/60Hz 0.6MAX Output:12.0Vd.c.,1.0A

3.3. Radio Specification Description

Bluetooth version:	V5.0
Support function:	BLE 1M,BLE 2M
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC Antenna
Antenna gain:	3.72dBi

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

Channel	Frequency (MHz)
00	2402
01	2404
. . .	. . .
19	2440
. . .	. . .
38	2478
39	2480

4.2. Descriptions of Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For Radiated spurious emissions:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.3. Test sample information

Test item	HTW sample no.
RF Conducted test items	Please refer to the description in the appendix report
RF Radiated test items	YPHT25020405002
EMI test items	YPHT25020405001

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.5. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.7. Equipment Used during the Test

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2024/08/27	2025/08/26
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2024/08/21	2025/08/20
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2025/03/13	2026/03/12
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2024/08/12	2025/08/11
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2024/08/12	2025/08/11
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2024/08/12	2025/08/11
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2024/08/12	2025/08/11
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2024/08/12	2025/08/11
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission – 9kHz~30MHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/04/06	2026/04/05
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2024/08/12	2025/08/11
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2024/04/08	2027/04/07
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission - 30MHz~1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/04/06	2026/04/05
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2024/08/12	2025/08/11
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2023/02/22	2026/02/21
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2024/05/24	2025/05/23
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission- Above 1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/04/17	2026/04/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2024/08/12	2025/08/11
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2024/08/12	2025/0811
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/02/14	2026/02/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2024/06/06	2025/06/05
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2024/06/06	2025/06/05
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a FPC antenna, Refer to the below antenna photo.



5.2. AC Conducted Emission

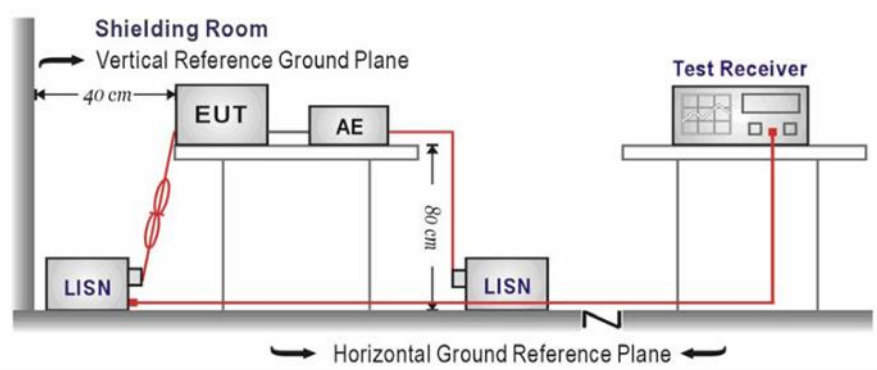
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE

Refer to the clause 4.2

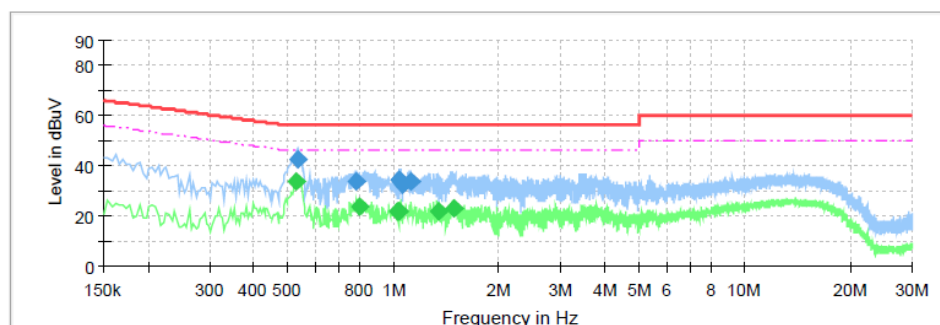
TEST RESULT

☒ Passed ☐ Not Applicable

BLE 1M

Test Line:

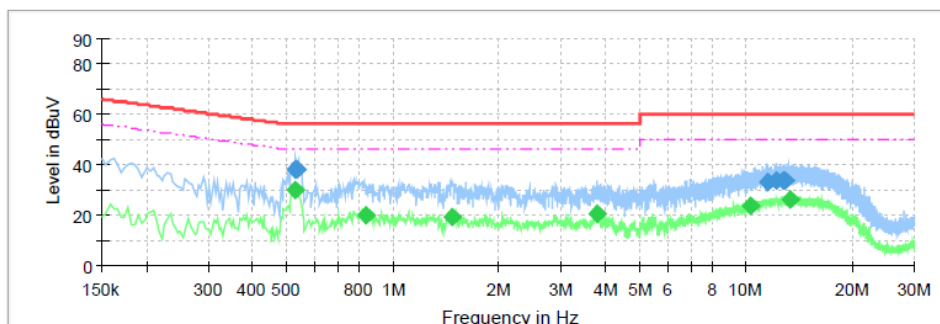
L

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.527500	---	33.58	46.00	12.42	L1	10.4
0.535500	42.40	---	56.00	13.60	L1	10.4
0.783500	34.06	---	56.00	21.94	L1	10.5
0.799500	---	23.75	46.00	22.25	L1	10.5
1.031500	---	22.12	46.00	23.88	L1	10.5
1.035500	34.44	---	56.00	21.56	L1	10.5
1.039500	34.54	---	56.00	21.46	L1	10.5
1.043500	---	22.00	46.00	24.00	L1	10.5
1.067500	32.33	---	56.00	23.67	L1	10.5
1.123500	33.49	---	56.00	22.51	L1	10.5
1.343500	---	21.57	46.00	24.43	L1	10.5
1.491500	---	23.42	46.00	22.58	L1	10.5

Test Line:

N

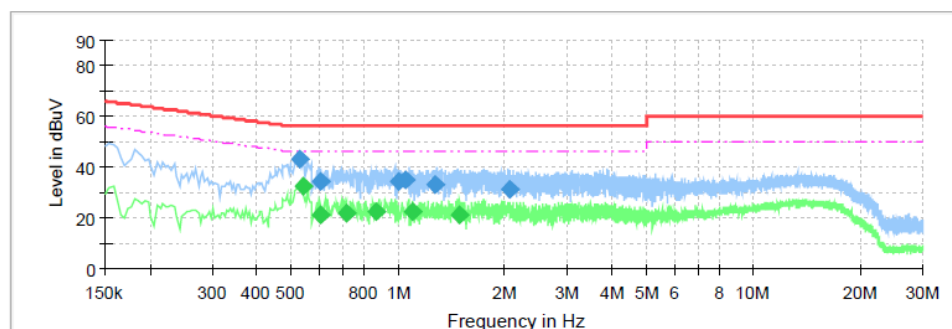
**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.527500	---	29.73	46.00	16.27	N	10.2
0.528500	38.41	---	56.00	17.59	N	10.2
0.535500	38.29	---	56.00	17.71	N	10.2
0.835500	---	19.86	46.00	26.14	N	10.2
1.475500	---	19.67	46.00	26.33	N	10.2
3.795500	---	20.58	46.00	25.42	N	10.3
10.359500	---	23.60	50.00	26.40	N	10.4
11.535500	33.18	---	60.00	26.82	N	10.4
12.200500	33.81	---	60.00	26.19	N	10.4
12.747500	33.62	---	60.00	26.38	N	10.4
12.931500	33.78	---	60.00	26.22	N	10.4
13.403500	---	26.23	50.00	23.77	N	10.4

BLE 2M

Test Line:

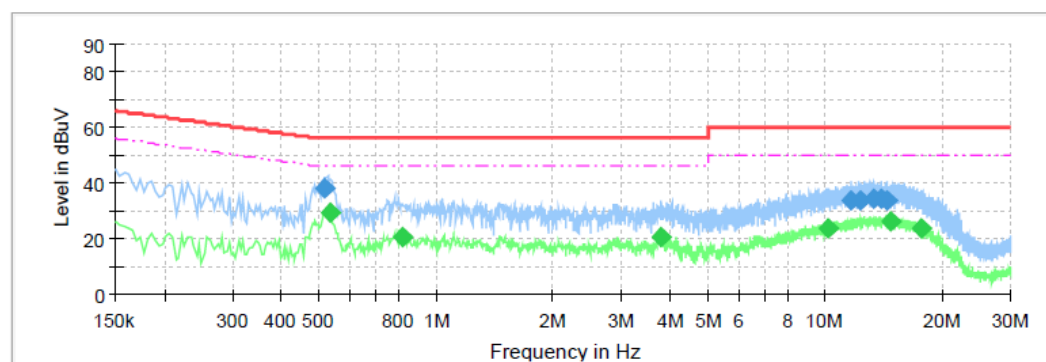
L

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.531500	42.95	---	56.00	13.05	L1	10.4
0.539500	---	32.57	46.00	13.43	L1	10.4
0.603500	34.47	---	56.00	21.53	L1	10.4
0.607500	---	21.43	46.00	24.57	L1	10.4
0.719500	---	21.83	46.00	24.17	L1	10.4
0.867500	---	22.29	46.00	23.71	L1	10.5
1.000500	34.44	---	56.00	21.56	L1	10.5
1.051500	34.92	---	56.00	21.08	L1	10.5
1.095500	---	22.55	46.00	23.45	L1	10.5
1.275500	33.00	---	56.00	23.00	L1	10.5
1.483500	---	21.27	46.00	24.73	L1	10.5
2.063500	30.98	---	56.00	25.02	L1	10.5

Test Line:

N

**Final Result**

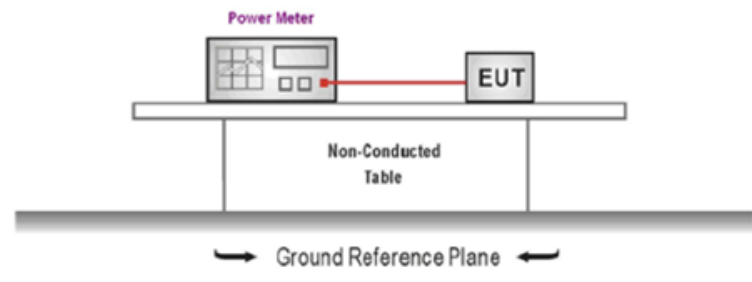
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.519500	38.10	---	56.00	17.90	N	10.2
0.535500	---	29.53	46.00	16.47	N	10.2
0.815500	---	20.53	46.00	25.47	N	10.2
3.795500	---	20.88	46.00	25.12	N	10.3
10.159500	---	23.70	50.00	26.30	N	10.4
11.671500	33.54	---	60.00	26.46	N	10.4
12.279500	33.77	---	60.00	26.23	N	10.4
13.339500	34.45	---	60.00	25.55	N	10.4
13.887500	34.28	---	60.00	25.72	N	10.4
14.431500	33.88	---	60.00	26.12	N	10.4
14.795500	---	26.10	50.00	23.90	N	10.5
17.719500	---	24.04	50.00	25.96	N	10.5

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

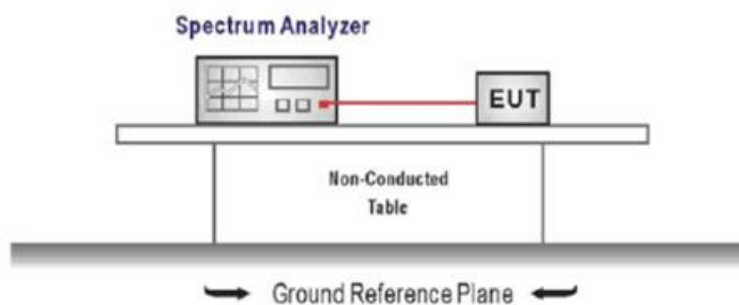
5.4. Power Spectral Density

LIMIT

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

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

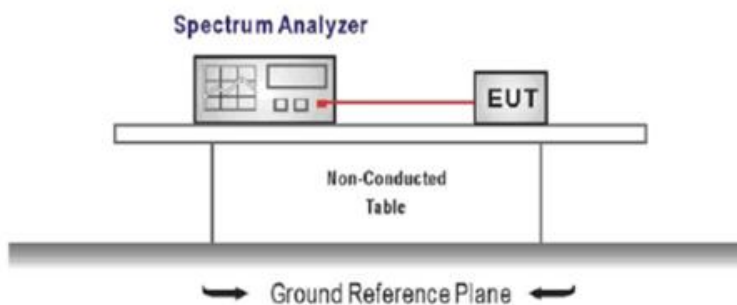
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = DTS channel center frequency
Span = 2 x DTS bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

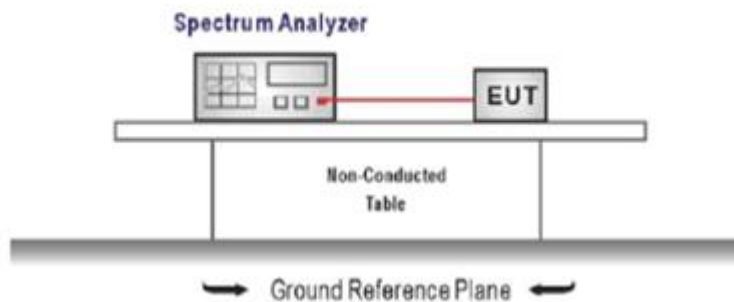
Refer to the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

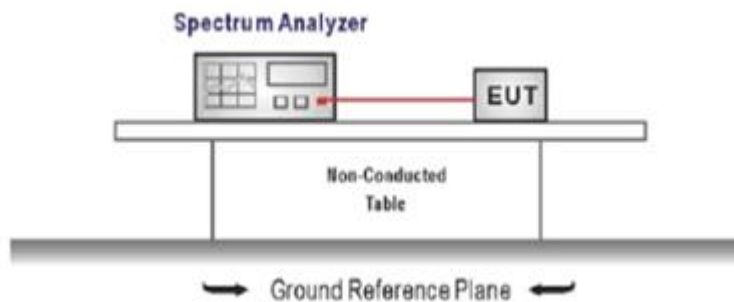
Refer to the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, 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 spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.2

TEST DATA

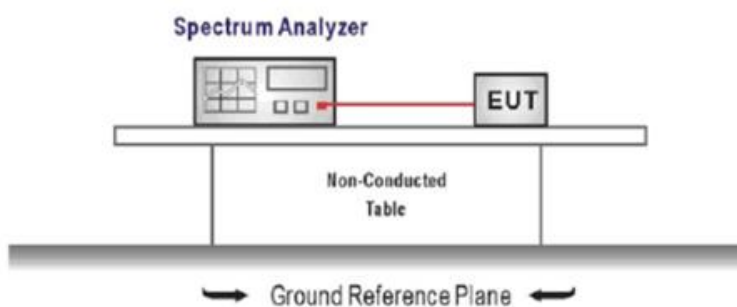
Refer to the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

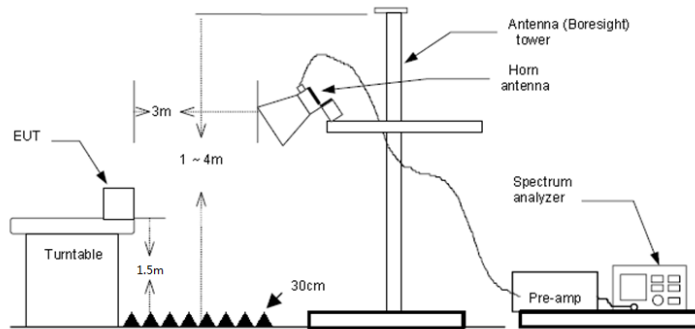
5.9. Radiated Band edge Emission

LIMIT

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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

BLE 1M

Test channel		CH00			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	49.77	27.86	3.95	41.18	40.40	74.00	-33.60	Peak
2	2390.03	52.19	27.54	4.08	41.11	42.70	74.00	-31.30	Peak

Test channel		CH00			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	46.58	27.86	3.95	41.18	37.21	74.00	-36.79	Peak
2	2390.03	49.43	27.54	4.08	41.11	39.94	74.00	-34.06	Peak

Test channel		CH39			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	51.51	27.33	4.18	41.04	41.98	74.00	-32.02	Peak
2	2500.00	51.86	27.30	4.20	41.02	42.34	74.00	-31.66	Peak

Test channel		CH39			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	48.20	27.33	4.18	41.04	38.67	74.00	-35.33	Peak
2	2500.00	47.40	27.30	4.20	41.02	37.88	74.00	-36.12	Peak

BLE 2M

Test channel		CH00			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	55.91	27.33	4.18	41.04	46.38	74.00	-27.62	Peak
2	2500.00	50.02	27.30	4.20	41.02	40.50	74.00	-33.50	Peak

Test channel		CH00			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	47.64	27.86	3.95	41.18	38.27	74.00	-35.73	Peak
2	2390.03	50.22	27.54	4.08	41.11	40.73	74.00	-33.27	Peak

Test channel		CH39			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	55.91	27.33	4.18	41.04	46.38	74.00	-27.62	Peak
2	2500.00	50.02	27.30	4.20	41.02	40.50	74.00	-33.50	Peak

Test channel		CH39			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	53.62	27.33	4.18	41.04	44.09	74.00	-29.91	Peak
2	2500.00	51.95	27.30	4.20	41.02	42.43	74.00	-31.57	Peak

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

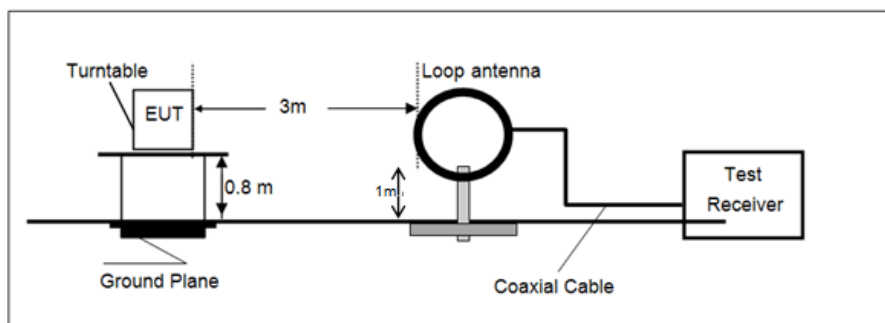
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + $40 \cdot \log(300/3)$ = Limit dBuV/m @300m + 80,

Limit dBuV/m @3m = Limit dBuV/m @30m + $40 \cdot \log(30/3)$ = Limit dBuV/m @30m + 40.

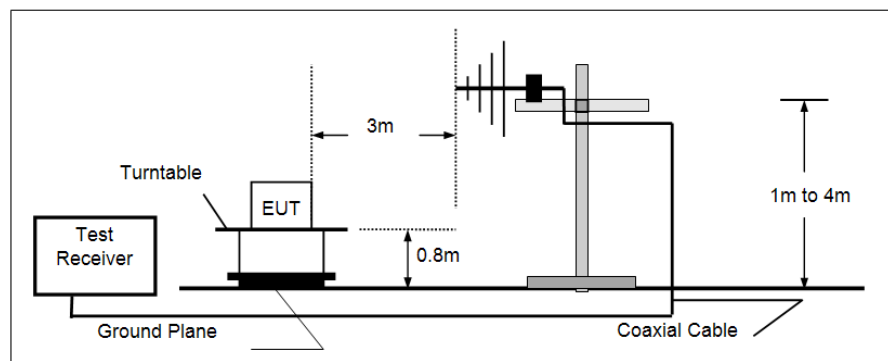
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

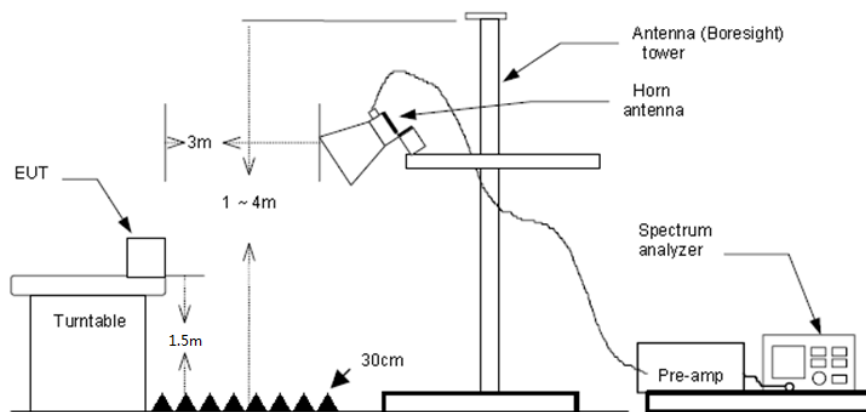
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

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

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

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

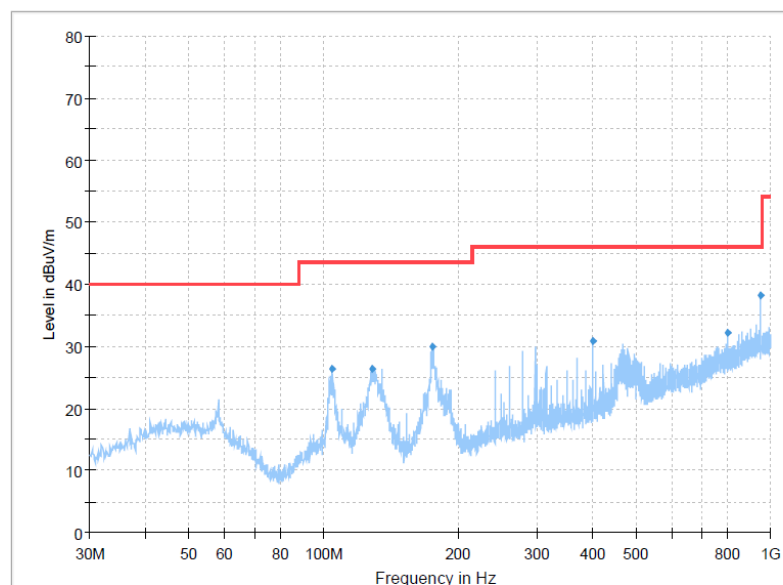
For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH39 which it was worst case, so only show the worst case's data on this report.

BLE 1M

Polarization:

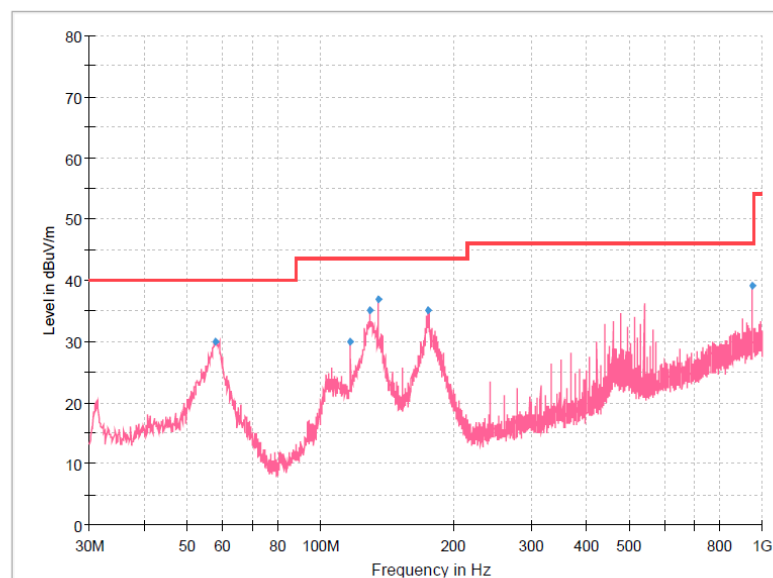
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
104.8113	26.41	43.50	17.09	300.0	H	278.0	-10.3
128.5763	26.41	43.50	17.09	300.0	H	87.0	-13.3
175.2575	29.92	43.50	13.58	100.0	H	120.0	-12.4
400.0550	30.90	46.00	15.10	100.0	H	5.0	-4.0
800.0588	32.13	46.00	13.87	100.0	H	352.0	4.9
948.5900	38.28	46.00	7.72	300.0	H	355.0	7.4

Polarization:

Vertical

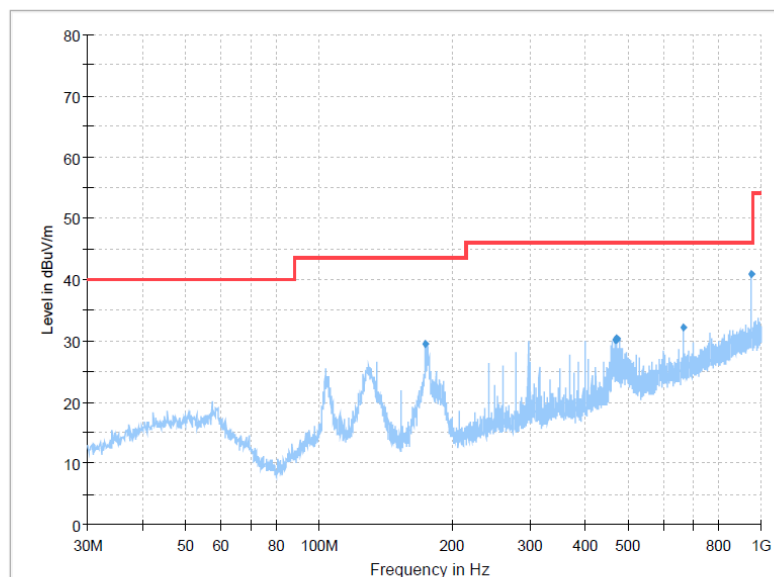
**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.7663	29.95	40.00	10.05	100.0	V	349.0	-9.1
116.9363	29.90	43.50	13.60	100.0	V	266.0	-11.9
129.1825	35.15	43.50	8.35	100.0	V	164.0	-13.3
135.0025	36.77	43.50	6.73	100.0	V	224.0	-13.8
175.3788	35.11	43.50	8.39	100.0	V	123.0	-12.4
948.5900	39.20	46.00	6.80	100.0	V	208.0	7.4

BLE 2M

Polarization:

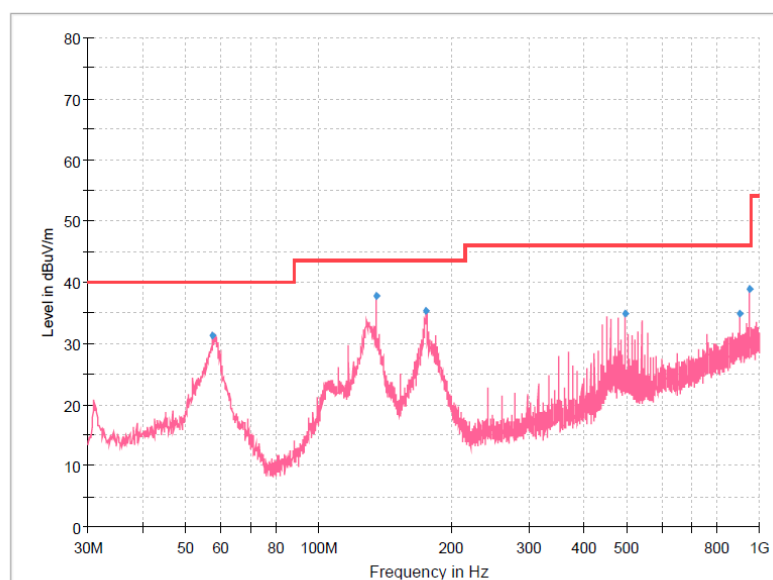
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
174.4088	29.58	43.50	13.92	100.0	H	99.0	-12.5
467.3488	30.22	46.00	15.78	100.0	H	278.0	-2.8
469.5313	30.25	46.00	15.75	100.0	H	278.0	-2.7
471.1075	30.38	46.00	15.62	100.0	H	99.0	-2.6
666.0775	32.16	46.00	13.84	100.0	H	294.0	2.2
948.4688	40.89	46.00	5.11	100.0	H	109.0	7.5

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.6450	31.21	40.00	8.79	100.0	V	5.0	-9.1
135.0025	37.82	43.50	5.68	100.0	V	191.0	-13.8
174.7725	35.33	43.50	8.17	100.0	V	81.0	-12.5
494.9938	34.83	46.00	11.17	100.0	V	349.0	-1.5
900.0900	34.96	46.00	11.04	100.0	V	259.0	7.0
948.5900	38.87	46.00	7.13	100.0	V	275.0	7.4

For 1 GHz ~ 25 GHz**BLE 1M**

Test channel		CH00			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4267.18	45.33	30.07	5.81	40.49	40.72	74.00	-33.28	Peak
2	5865.83	41.82	32.23	6.71	39.27	41.49	74.00	-32.51	Peak
3	9019.05	40.25	38.04	8.41	39.99	46.71	74.00	-27.29	Peak
4	10916.26	42.01	40.50	8.83	40.62	50.72	74.00	-23.28	Peak

Test channel		CH00			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	58.58	28.50	4.53	40.95	50.66	74.00	-23.34	Peak
2	3993.90	49.58	29.79	5.43	40.32	44.48	74.00	-29.52	Peak
3	6992.14	47.06	35.07	7.37	39.47	50.03	74.00	-23.97	Peak
4	11545.04	40.86	40.41	9.25	40.26	50.26	74.00	-23.74	Peak

Test channel		CH19			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3983.75	48.74	29.77	5.41	40.33	43.59	74.00	-30.41	Peak
2	6903.71	43.28	34.53	7.39	39.42	45.78	74.00	-28.22	Peak
3	7981.72	41.82	36.96	8.03	39.94	46.87	74.00	-27.13	Peak
4	11457.21	40.35	40.46	9.17	40.24	49.74	74.00	-24.26	Peak

Test channel		CH19			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	54.95	28.50	4.53	40.95	47.03	74.00	-26.97	Peak
2	4983.99	52.15	31.34	5.99	40.21	49.27	74.00	-24.73	Peak
3	6974.36	48.08	35.00	7.38	39.46	51.00	74.00	-23.00	Peak
4	11399.03	40.77	40.40	9.12	40.30	49.99	74.00	-24.01	Peak

Test channel		CH39			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3993.90	46.41	29.79	5.43	40.32	41.31	74.00	-32.69	Peak
2	4996.69	52.36	31.39	6.00	40.20	49.55	74.00	-24.45	Peak
3	7860.74	41.63	36.44	8.02	39.97	46.12	74.00	-27.88	Peak
4	11457.21	40.19	40.46	9.17	40.24	49.58	74.00	-24.42	Peak

Test channel		CH39			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.41	28.50	4.53	40.95	47.49	74.00	-26.51	Peak
2	4996.69	49.83	31.39	6.00	40.20	47.02	74.00	-26.98	Peak
3	6992.14	46.48	35.07	7.37	39.47	49.45	74.00	-24.55	Peak
4	9935.05	42.36	39.30	8.60	39.89	50.37	74.00	-23.63	Peak

BLE 2M

Test channel		CH00			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4983.99	44.78	31.34	5.99	40.21	41.90	74.00	-32.10	Peak
2	7264.28	41.76	36.03	7.58	39.75	45.62	74.00	-28.38	Peak
3	9611.66	41.71	39.12	8.60	39.82	49.61	74.00	-24.39	Peak
4	11457.21	41.13	40.46	9.17	40.24	50.52	74.00	-23.48	Peak

Test channel		CH00			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	58.17	28.50	4.53	40.96	50.24	74.00	-23.76	Peak
2	4996.69	53.40	31.39	6.00	40.20	50.59	74.00	-23.41	Peak
3	6974.36	47.67	35.00	7.38	39.46	50.59	74.00	-23.41	Peak
4	10374.42	41.56	39.82	8.90	40.12	50.16	74.00	-23.84	Peak

Test channel		CH19			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5086.52	41.40	31.92	6.07	40.10	39.29	74.00	-34.71	Peak
2	6903.71	43.83	34.53	7.39	39.42	46.33	74.00	-27.67	Peak
3	7981.72	41.75	36.96	8.03	39.94	46.80	74.00	-27.20	Peak
4	11457.21	40.67	40.46	9.17	40.24	50.06	74.00	-23.94	Peak

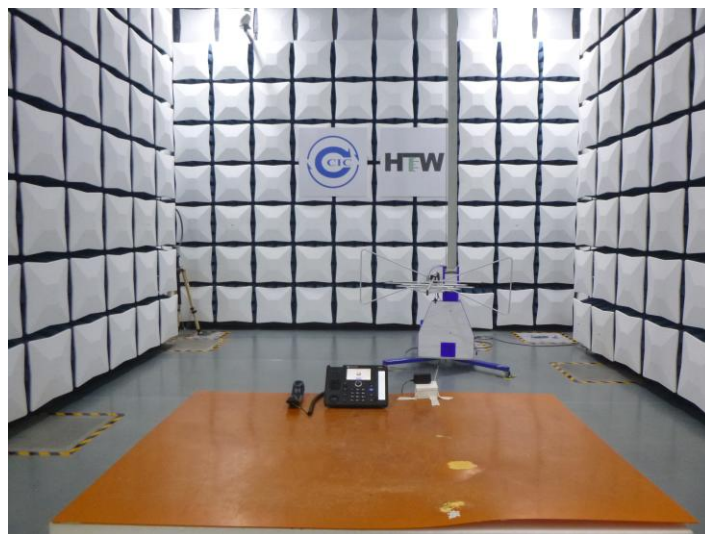
Test channel		CH19			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3003.17	56.65	28.51	4.54	40.95	48.75	74.00	-25.25	Peak
2	4983.99	51.16	31.34	5.99	40.21	48.28	74.00	-25.72	Peak
3	6974.36	46.65	35.00	7.38	39.46	49.57	74.00	-24.43	Peak
4	8973.25	43.53	37.95	8.39	40.01	49.86	74.00	-24.14	Peak

Test channel		CH39			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4004.08	47.58	29.81	5.44	40.31	42.52	74.00	-31.48	Peak
2	5099.49	42.31	32.00	6.08	40.08	40.31	74.00	-33.69	Peak
3	7981.72	42.50	36.96	8.03	39.94	47.55	74.00	-26.45	Peak
4	11486.41	40.34	40.49	9.19	40.21	49.81	74.00	-24.19	Peak

Test channel		CH39			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	56.43	28.50	4.53	40.96	48.50	74.00	-25.50	Peak
2	4983.99	49.72	31.34	5.99	40.21	46.84	74.00	-27.16	Peak
3	6974.36	47.97	35.00	7.38	39.46	50.89	74.00	-23.11	Peak
4	8973.25	43.96	37.95	8.39	40.01	50.29	74.00	-23.71	Peak

6. TEST SETUP PHOTOS

Radiated Emission





AC Conducted Emission



7. EXTERNAL AND INTERNAL PHOTOS

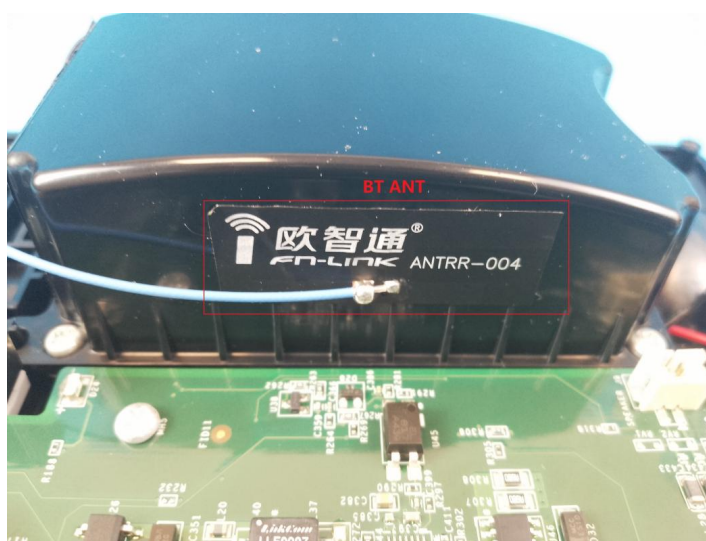
7.1. External Photos

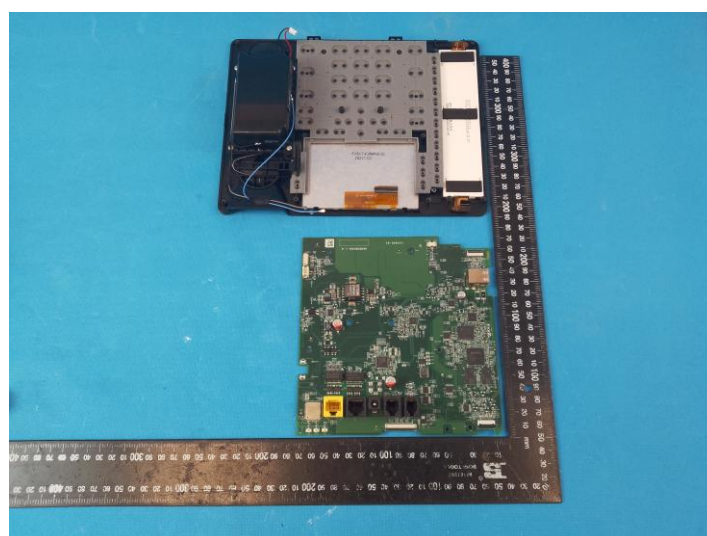


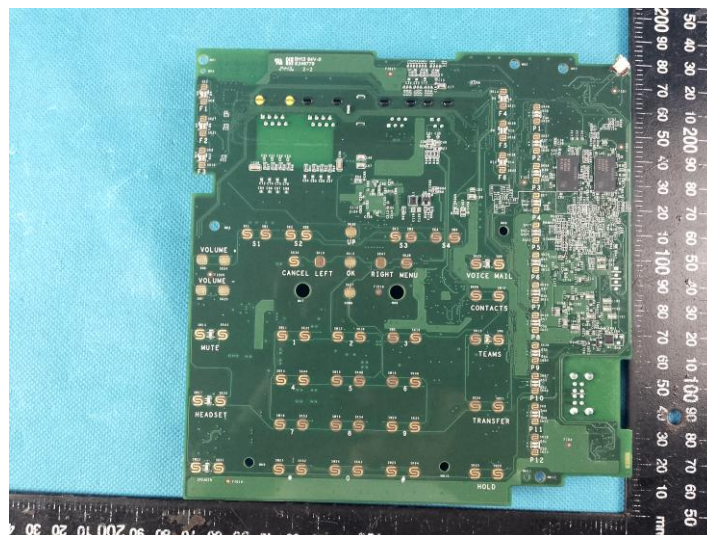
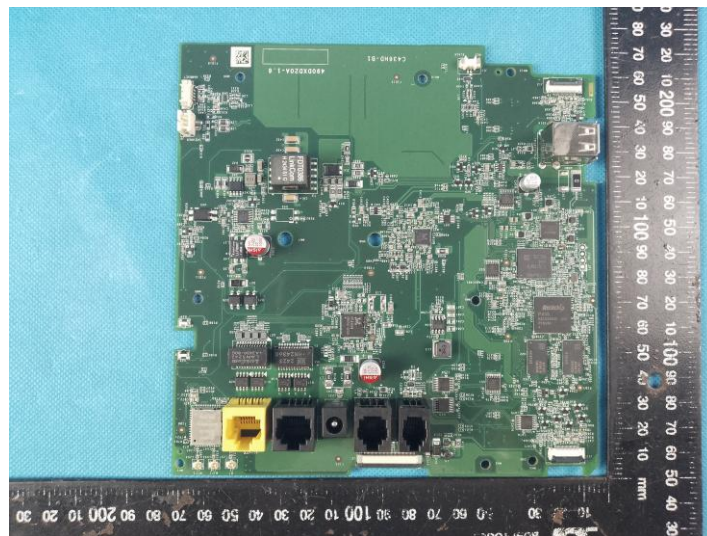


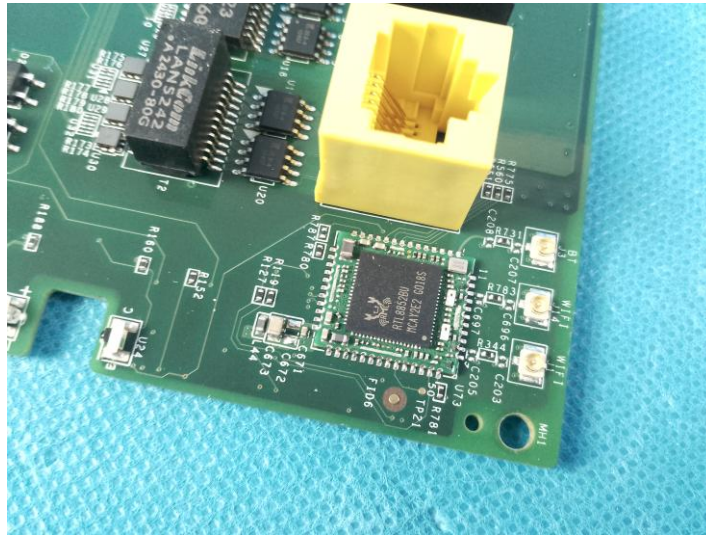


7.2. Internal Photos









8. APPENDIX REPORT

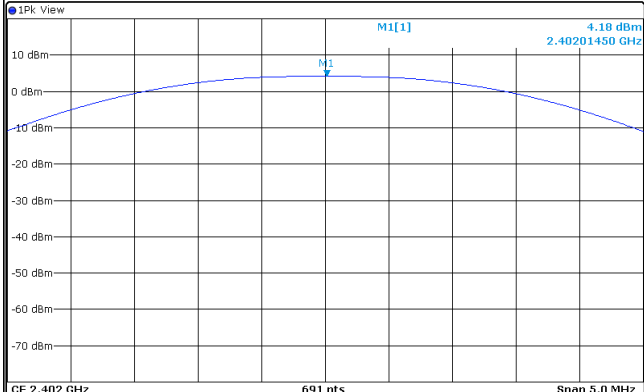
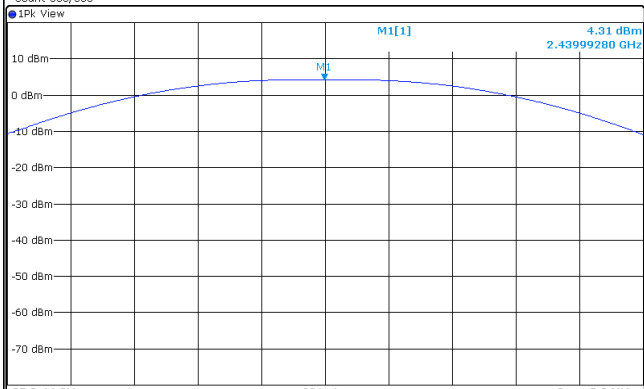
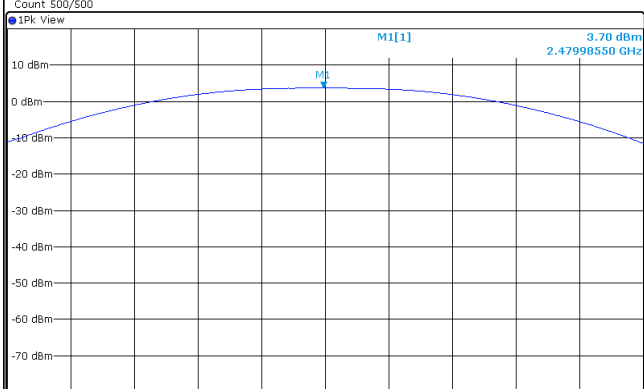
APPENDIX REPORT

Project No.	SHT2502040501W	Radio Specification	Bluetooth BLE
Test sample No.	YPHT25020405002	Model No.	C436HD
Start test date	2025-04-30	Finish date	2025-05-07
Temperature	23.7℃	Humidity	51%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhuo

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	4.18	4.02	≤ 30.00	Pass
	19	4.31	4.15		
	39	3.70	3.53		
2Mbps	00	3.78	3.65	≤ 30.00	Pass
	19	3.91	3.80		
	39	3.31	3.15		

Test rate:		1Mbps
CH00	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 2 MHz Att 30 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPk View M1 M1[1] 4.18 dBm 2.40201450 GHz  CF 2.402 GHz 691 pts Span 5.0 MHz Date: 27 APR 2025 23:03:22	
CH19	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 2 MHz Att 30 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPk View M1 M1[1] 4.31 dBm 2.43999280 GHz  CF 2.44 GHz 691 pts Span 5.0 MHz Date: 27 APR 2025 23:05:20	
CH39	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 2 MHz Att 30 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPk View M1 M1[1] 3.70 dBm 2.47998550 GHz  CF 2.48 GHz 691 pts Span 5.0 MHz Date: 27 APR 2025 23:07:09	

Test rate: 2Mbps	
CH00	The spectrum plot for CH00 shows a single peak at 2.4020430 GHz with a power level of 3.78 dBm. The plot is titled 'Spectrum' and includes settings: Ref Level 20.00 dBm, Att 30 dB, Offset 0.50 dB, RBW 3 MHz, Count 500/500, Mode Auto Sweep. The x-axis is labeled 'CF 2.402 GHz' and the y-axis is labeled 'Span 10.0 MHz'. The peak is labeled 'M1[1]'.
CH19	The spectrum plot for CH19 shows a single peak at 2.400290 GHz with a power level of 3.91 dBm. The plot is titled 'Spectrum' and includes settings: Ref Level 20.00 dBm, Att 30 dB, Offset 0.50 dB, RBW 3 MHz, Count 500/500, Mode Auto Sweep. The x-axis is labeled 'CF 2.44 GHz' and the y-axis is labeled 'Span 10.0 MHz'. The peak is labeled 'M1[1]'.
CH39	The spectrum plot for CH39 shows a single peak at 2.4800140 GHz with a power level of 3.31 dBm. The plot is titled 'Spectrum' and includes settings: Ref Level 20.00 dBm, Att 30 dB, Offset 0.50 dB, RBW 3 MHz, Count 500/500, Mode Auto Sweep. The x-axis is labeled 'CF 2.48 GHz' and the y-axis is labeled 'Span 10.0 MHz'. The peak is labeled 'M1[1]'.

Appendix B: Power Spectral Density

Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-11.37	≤8.00	Pass
	19	-11.18		
	39	-12.38		
2Mbps	00	-14.67	≤8.00	Pass
	19	-13.87		
	39	-15.74		

Test rate: 1Mbps

CH00

Spectrum

Ref Level 20.00 dBm Offset 0.50 dB RBW 3 kHz
Att 30 dB SWT 632.3 μ s VBW 10 kHz Mode Auto FFT
Count 100/100

1Pk Max

M1[1] -11.37 dBm 2.40197830 GHz

10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

CF 2.402 GHz 691 pts Span 1.0 MHz

Date: 27 APR 2025 23:03:36

CH19

Spectrum

Ref Level 20.00 dBm Offset 0.50 dB RBW 3 kHz
Att 30 dB SWT 632.3 μ s VBW 10 kHz Mode Auto FFT
Count 100/100

1Pk Max

M1[1] -11.18 dBm 2.43989440 GHz

10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

CF 2.44 GHz 691 pts Span 1.0 MHz

Date: 27 APR 2025 23:03:34

CH39

Spectrum

Ref Level 20.00 dBm Offset 0.50 dB RBW 3 kHz
Att 30 dB SWT 632.3 μ s VBW 10 kHz Mode Auto FFT
Count 100/100

1Pk Max

M1[1] -12.38 dBm 2.47990010 GHz

10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

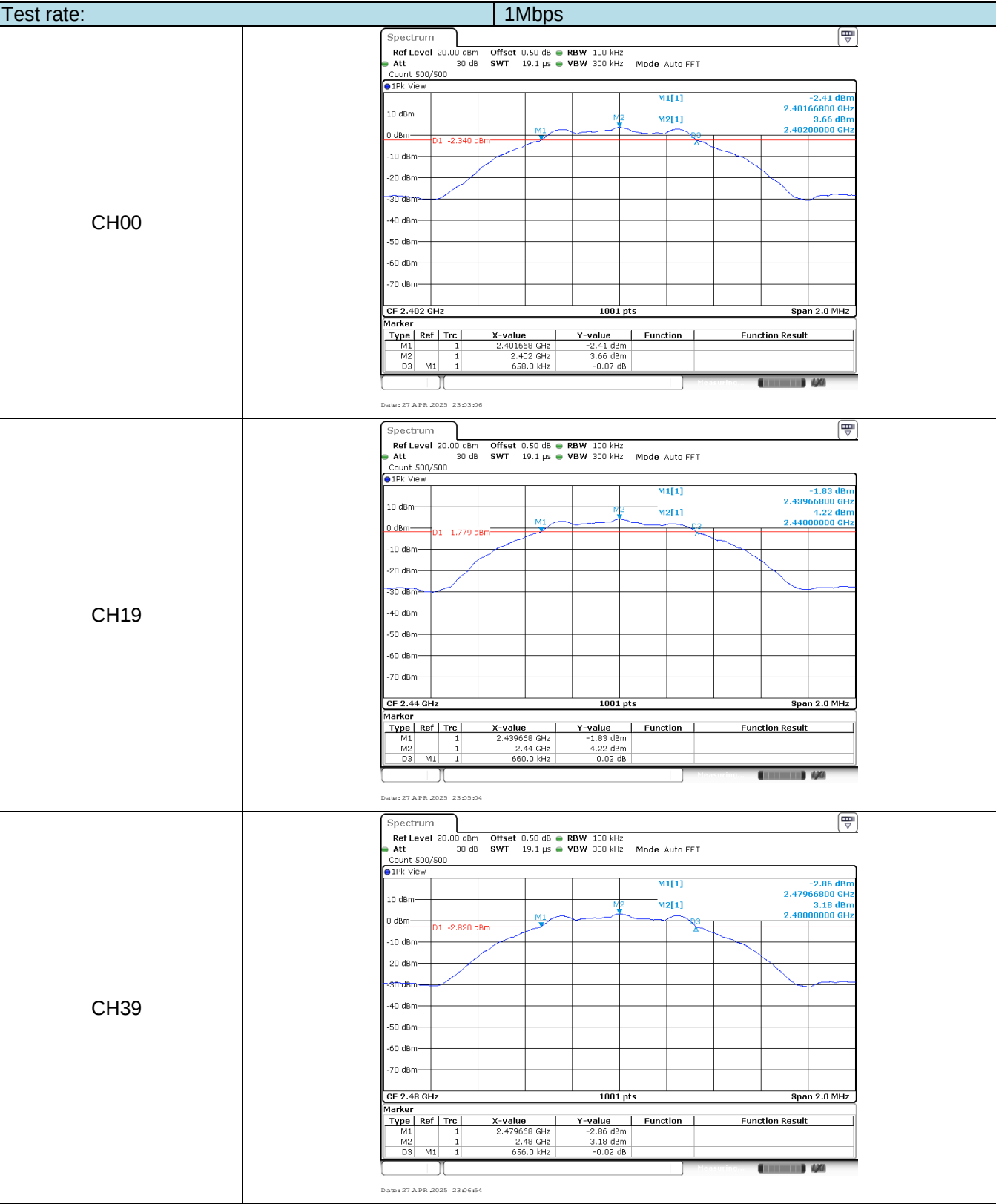
CF 2.48 GHz 691 pts Span 1.0 MHz

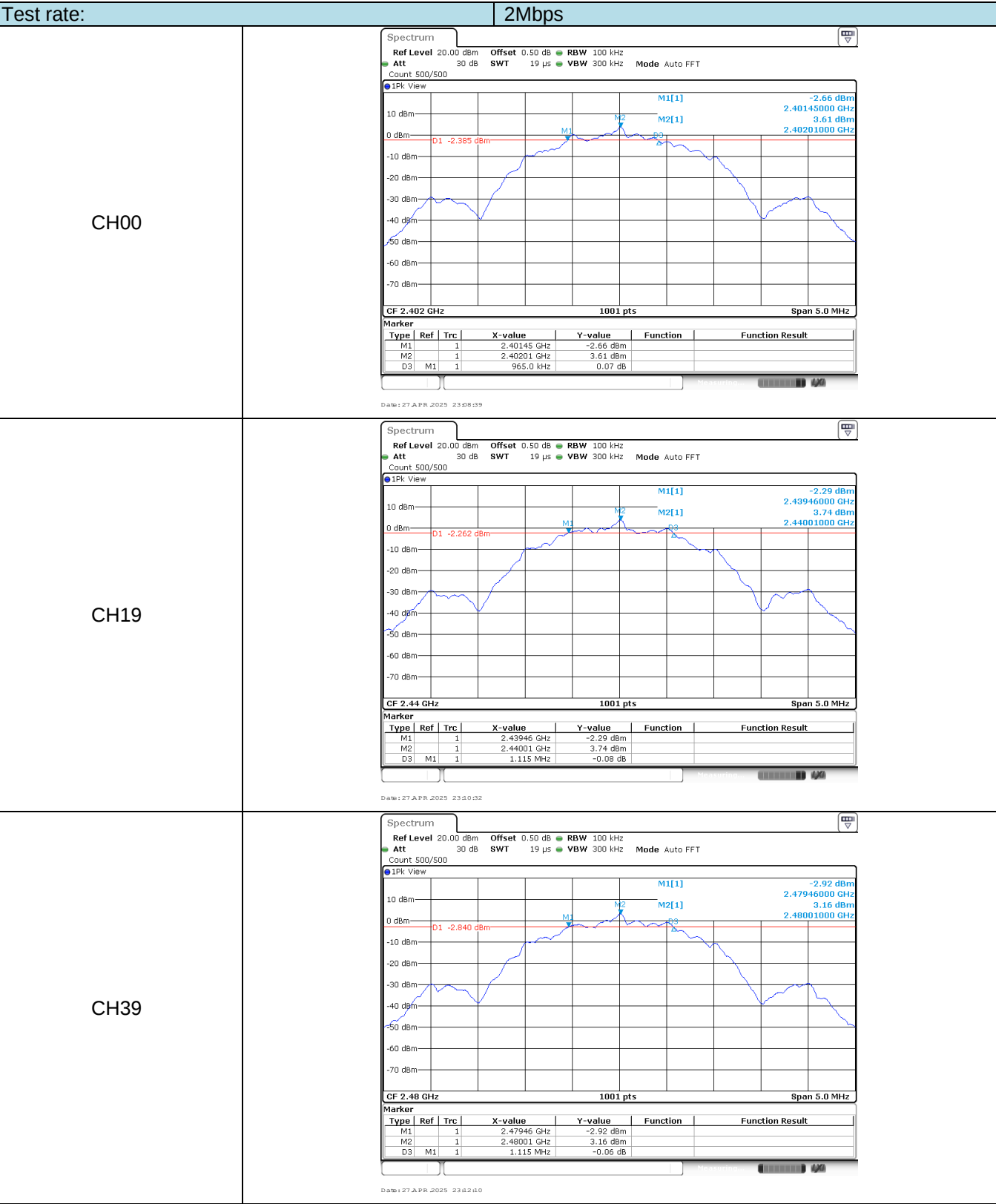
Date: 27 APR 2025 23:07:23

Appendix report page: 7 of 22

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	658.00	≥500	Pass
	19	660.00		
	39	656.00		
2Mbps	00	965.00	≥500	Pass
	19	1115.00		
	39	1115.00		





Appendix D: 99% Occupied Bandwidth

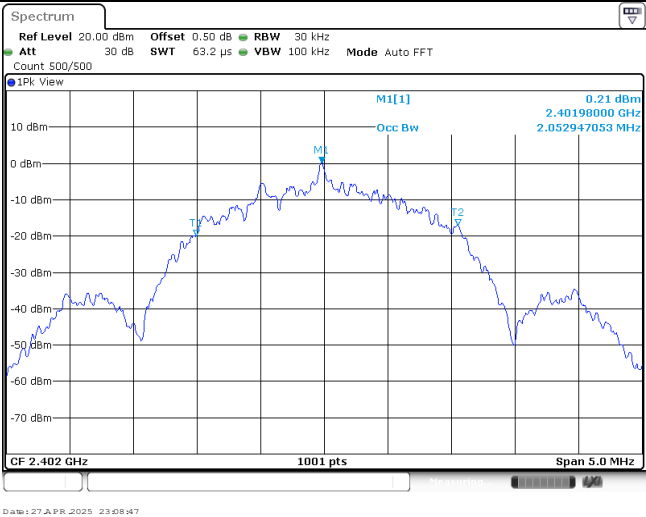
Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.02	-	Pass
	19	1.02		
	39	1.02		
2Mbps	00	2.05	-	Pass
	19	2.04		
	39	2.06		

Appendix report page: 12 of 22

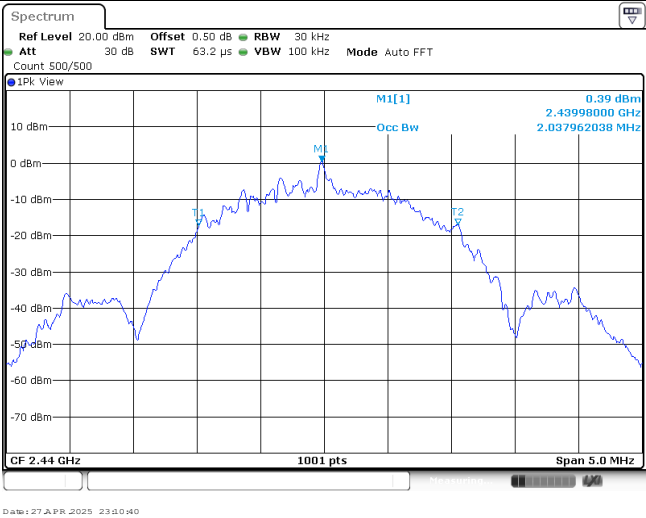
Test rate:

2Mbps

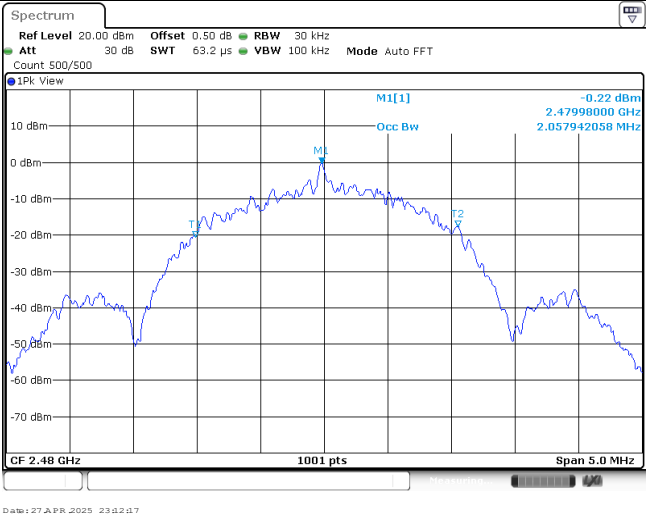
CH00



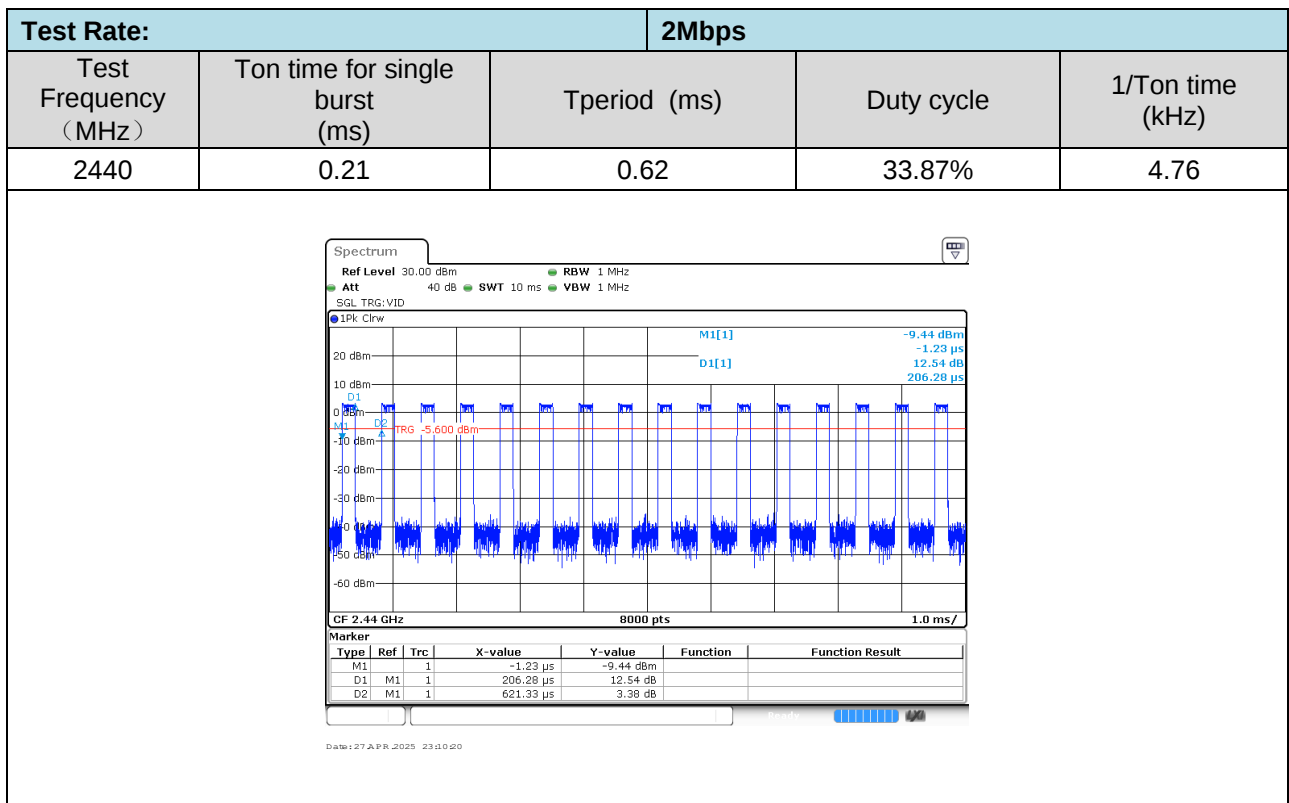
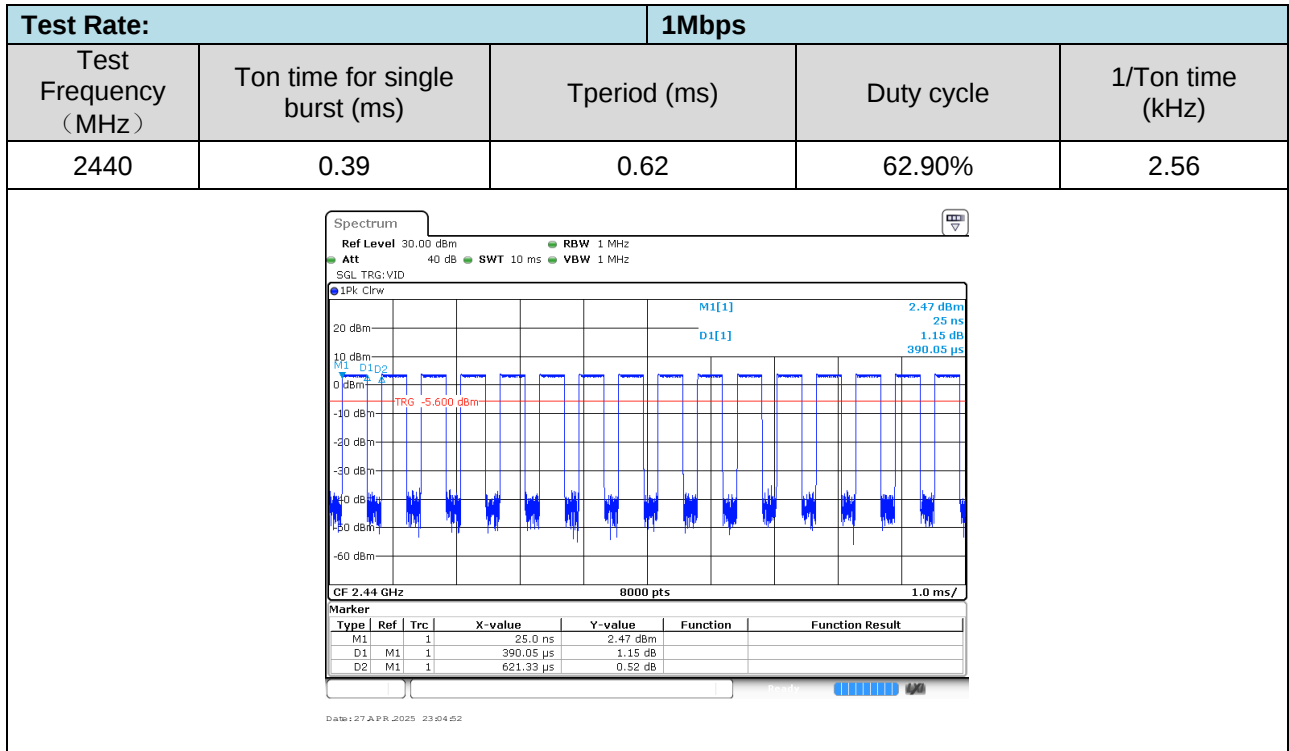
CH19



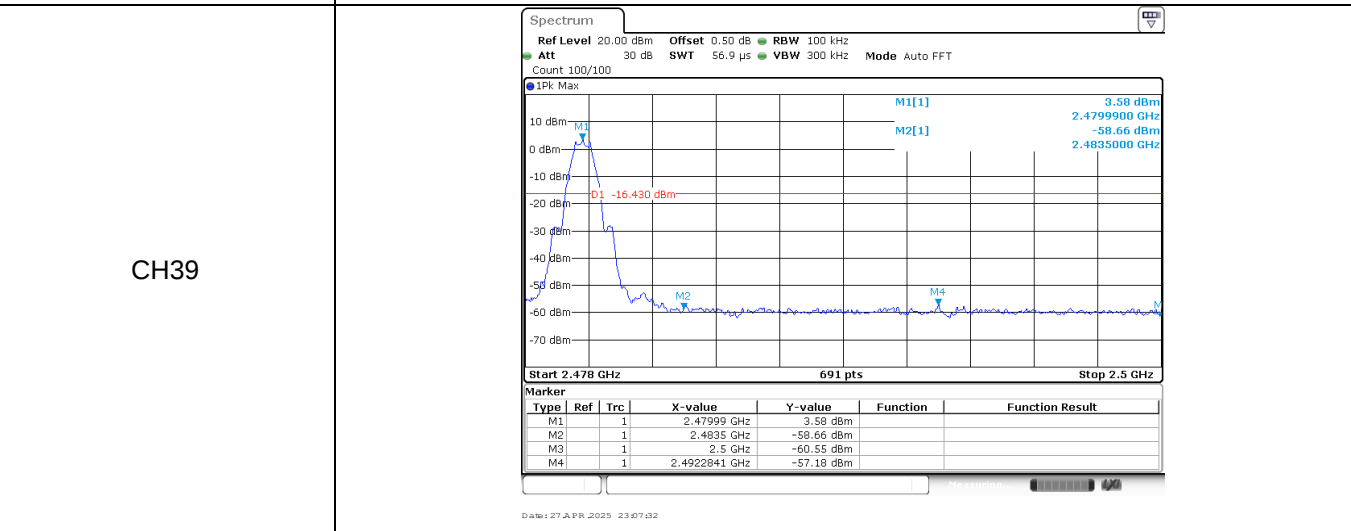
CH39

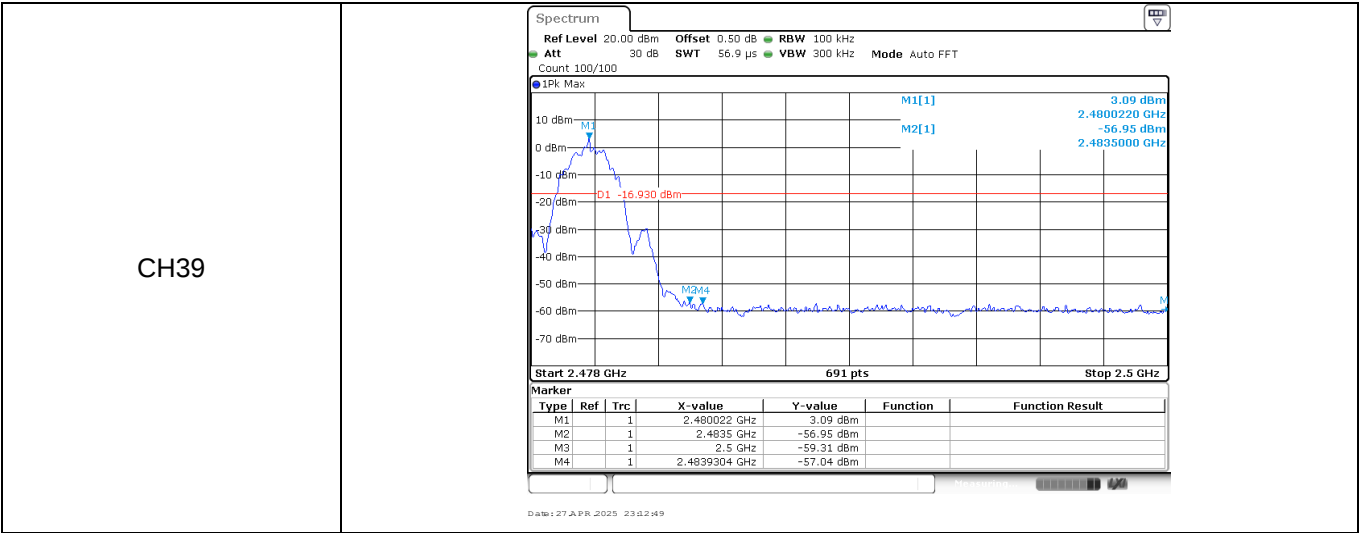


Appendix E: Duty cycle

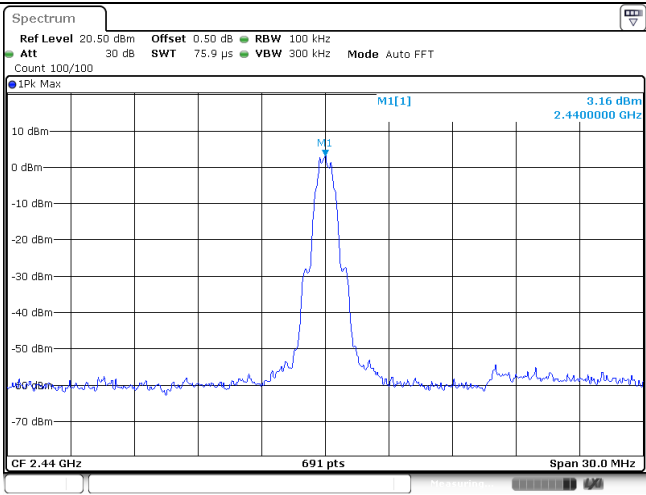
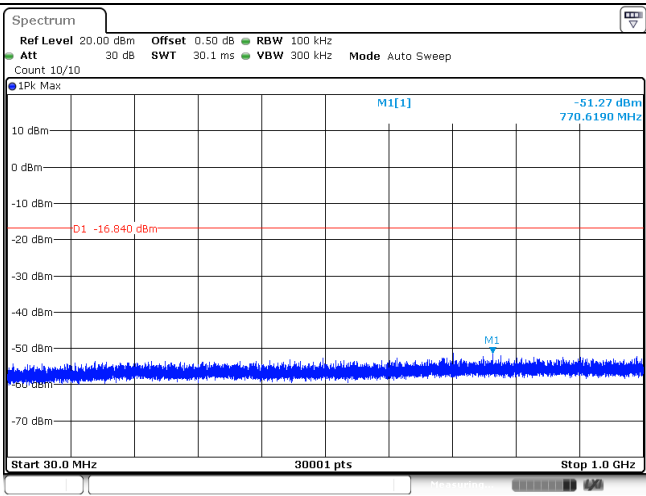
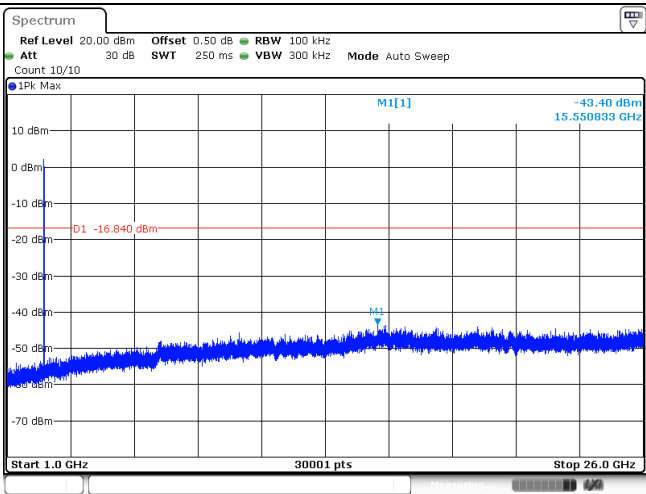


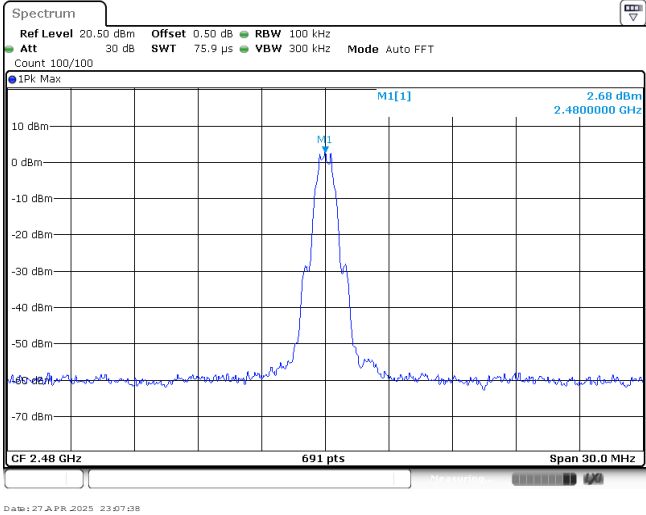
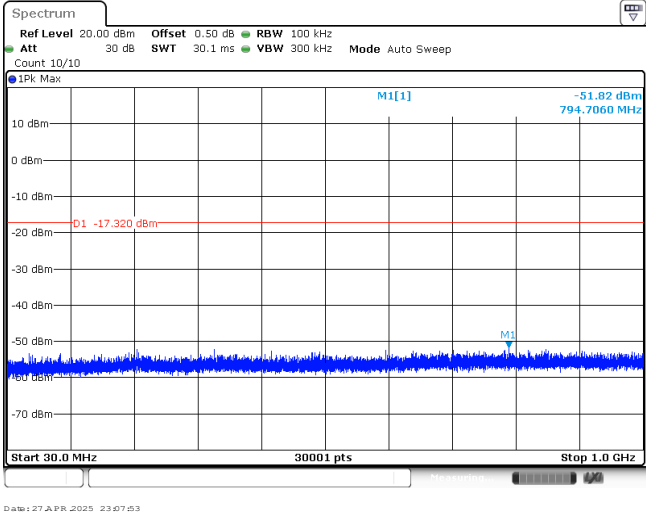
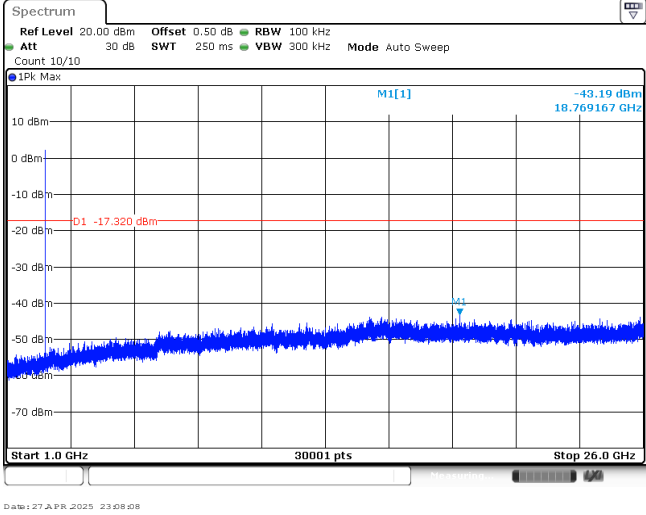
Test Item:	Band edge	Test Rate:	1Mbps
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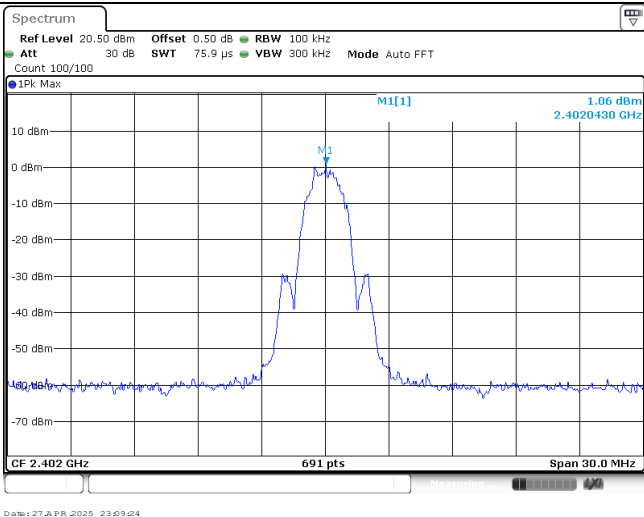
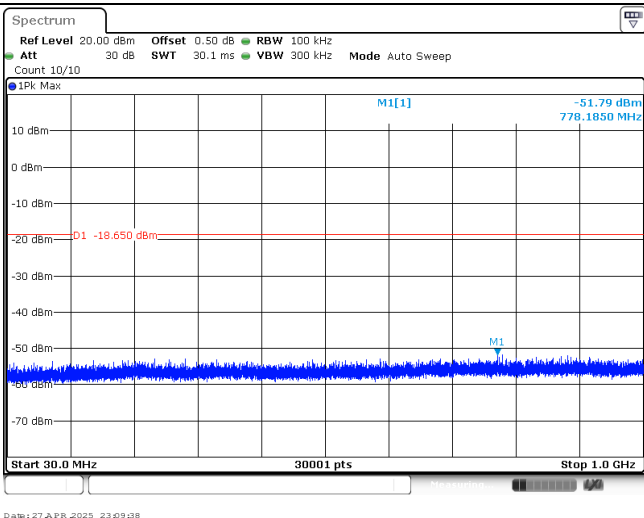
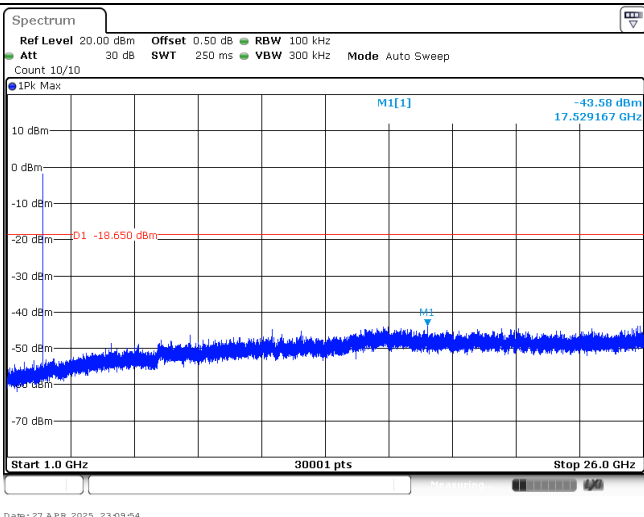


Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 3.01 dBm 2.4020430 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 691 pts Span 30.0 MHz Date: 27 APR.2025 23:03:51		
CH00 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB SWT 30.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.10 dBm 226.2410 MHz D1 -16.990 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27 APR.2025 23:04:06		
CH00 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB SWT 250 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -43.89 dBm 16.268333 GHz D1 -16.990 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27 APR.2025 23:04:21		

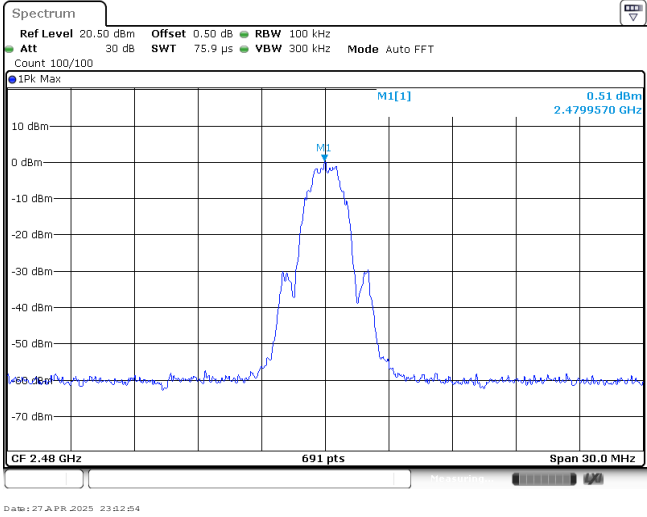
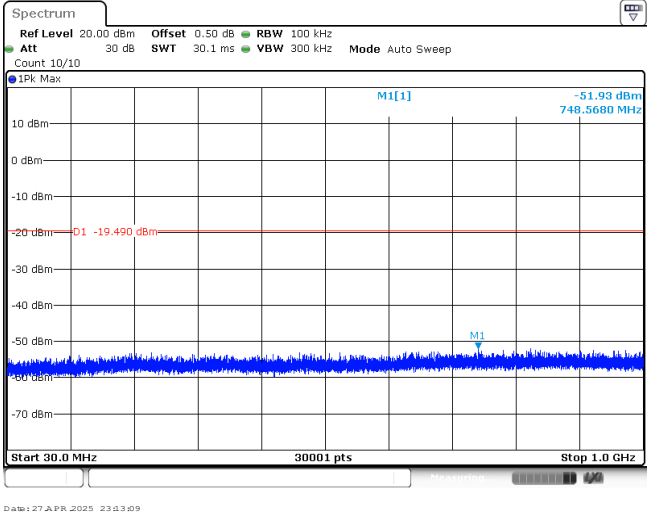
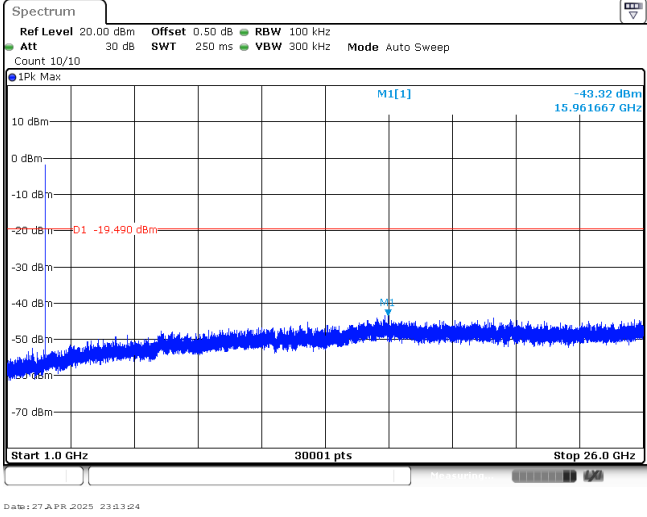
CH19 Reference level	 The spectrum plot shows a single sharp peak at 2.440000 GHz. The peak power is 3.16 dBm. The y-axis ranges from -70 dBm to 10 dBm. The x-axis is centered at 2.44 GHz with a span of 30.0 MHz. The plot includes parameters: Ref Level 20.50 dBm, Att 30 dB, Offset 0.50 dB, RBW 100 kHz, Count 100/100, Mode Auto FFT, and Span 30.0 MHz.
CH19 30MHz~1000MHz	 The spectrum plot shows a noise floor across the 30 MHz to 1000 MHz range. The noise floor level is -51.27 dBm. The y-axis ranges from -70 dBm to 10 dBm. The x-axis ranges from 30.0 MHz to 1.0 GHz. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 0.50 dB, RBW 100 kHz, Count 10/10, Mode Auto Sweep, and Span 30001 pts.
CH19 1GHz~26GHz	 The spectrum plot shows a noise floor across the 1 GHz to 26 GHz range. The noise floor level is -43.40 dBm. The y-axis ranges from -70 dBm to 10 dBm. The x-axis ranges from 1.0 GHz to 26.0 GHz. The plot includes parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 0.50 dB, RBW 100 kHz, Count 10/10, Mode Auto Sweep, and Span 30001 pts.

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

Test Item:	SE	Test Rate:	2Mbps
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CH00 Reference level	
CH00 30MHz~1000MHz	
CH00 1GHz~26GHz	

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

-----End of Report-----