

Test Report No:
2470945R-RFUSV01S-A

TEST REPORT

FCC Rules&Regulations

Product Name	Network Switch
Brand Name	FORTINET
Model No.	FortiSwitch-SASE 124Gxxxxxxxxxx, FORTISWITCH-SASE-124Gxxxxxxxxxx, FS-SASE-124Gxxxxxxxxxx, FortiSwitch-SASE 124G-FPOExxxxxxxxxx, FORTISWITCH-SASE-124G-FPOExxxxxxxxxx, FS-SASE-124G-FPOExxxxxxxxxx (Please refer to the section 1.1 for detail.)
FCC ID	TVE-240803
Applicant's Name / Address	Fortinet, Inc. 909 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer's Name / Address	Fortinet, Inc. 909 Kifer Road, Sunnyvale, CA 94086, USA
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	 Amelia Wu
Approved By	 Allen Lin
Date of Receipt	Jul. 31, 2024
Date of Issue	Dec. 30, 2024
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions	4
Revision History	5
Summary of Test Result.....	6
Comments and Remarks	6
1. General Information.....	7
1.1. EUT Description	7
1.2. EUT Information	8
1.3. Testing Applied Standards.....	8
1.4. Testing Location Information	9
1.5. Measurement Uncertainty	10
1.6. List of Test Equipment	11
2. Test Configuration of EUT	12
2.1. Test Condition.....	12
2.2. Test Frequency Mode	12
2.3. Duty Cycle	13
2.4. The Worst Case Measurement Configuration.....	14
2.5. Tested System Details.....	15
2.6. Configuration of Tested System	15
3. AC Power Line Conducted Emission	16
3.1. Test Setup	16
3.2. Test Limit	16
3.3. Test Procedure	16
3.4. Test Result of AC Power Line Conducted Emission	16
4. Occupied Bandwidth & DTS Bandwidth.....	17
4.1. Test Setup	17
4.2. Test Limit	17
4.3. Test Procedures	17
4.4. Test Result of Occupied Bandwidth & DTS Bandwidth.....	17
5. Maximum Conducted Output Power	18
5.1. Test Setup	18
5.2. Test Limit	18
5.3. Test Procedures	18
5.4. Test Result of Maximum Conducted Output Power	18
6. Maximum Power Spectral Density	19
6.1. Test Setup	19

6.2.	Test Limit	19
6.3.	Test Procedures	19
6.4.	Test Result of Maximum Power Spectral Density	19
7.	Antenna Port Conducted Emission	20
7.1.	Test Setup	20
7.2.	Test Limit	20
7.3.	Test Procedure	20
7.4.	Test Result of Antenna Port Conducted Emission	20
8.	Transmitter Radiated Spurious Emission	21
8.1.	Test Setup	21
8.2.	Test Limit	22
8.3.	Test Procedure	22
8.4.	Test Result of Transmitter Radiated Spurious Emission	22

Appendix A. Test Result of AC Power Line Conducted Emission

Appendix B. Test Result of Occupied Bandwidth & DTS Bandwidth

Appendix C. Test Result of Maximum Conducted Output Power

Appendix D. Test Result of Maximum Power Spectral Density

Appendix E. Test Result of Antenna Port Conducted Emission

Appendix F. Test Result of Transmitter Radiated Spurious Emission

Appendix G. Test Setup Photograph

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Dec. 30, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Occupied Bandwidth & DTS Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Antenna Port Conducted Emission	PASS	-
8	Transmitter Radiated Spurious Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	2400 ~ 2483.5 MHz
Operating Frequency	1 Mbps: 2402 ~ 2480 MHz 2 Mbps: 2402 ~ 2480 MHz
Channel Number	1 Mbps: 40 Channels 2 Mbps: 40 Channels
Mode	Bluetooth LE
Type of Modulation	GFSK

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Description	Remaker
1	Power cord	SPI	PCR-B3US-183C Senao PN: 7003A0081000	Non-Shielded, 1.83m	For FS-SASE-124G series
2	RJ45/USB console cable	CHANT SINCERE	C85881A02E1M8 Senao PN: 7015A0408000	Non-Shielded, 1.8m	-
3	19" Rack mounting bracket - 1 pair (2pcs)	ENRACK	Senao PN: 6301A2281001	-	-
4	Power cord	SPI	PCR-B3US15-J183C Senao PN:7003A0080000	Non-Shielded, 1.83m	For FS-SASE-124G-FPOE series

The difference for each model is shown as below:

EUT	Fortinet Model	Description	PCB size	Overall dimensions of the enclosure	Switch Configuration	PoE port	P/N of PSU
1	FortiSwitch-SASE 124G-FPOExxxxxxxx, FORTISWITCH-SASE-124G-FPOExxxxxxxx, FS-SASE-124G-FPOExxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	All the models are identical, and the difference model names are for software changes or marketing purposes only.	MB: 300*230mm CPU Board: 125*95mm POE Board: 237.73*62.23mm	440*310*44mm	24x 2.5G/1G/100M/POE + 4x SFP+(10G) Port 1 - 24 are POE ports with automatic Max 780W POE output limit	24	EMA900D-A
2	FortiSwitch-SASE 124Gxxxxxxx, FORTISWITCH-SASE-124Gxxxxxxx, FS-SASE-124Gxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	All the models are identical, and the difference model names are for software changes or marketing purposes only.	MB: 300*230mm CPU Board: 125*95mm	440*260*44mm	24x 2.5G/1G/100M + 4x SFP+(10G)	0	EMA135S-12

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
1	Senao	7102A0676000	PIFA	1.74

1.2. EUT Information

EUT Power Type	From AC power			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Gary Liao	22~25 / 62~69	2024/09/03~2024/09/06
RF Conducted Emission	HC-SR12	Kevin Teng	24.2 / 48.2	2024/09/02
Radiated Emission	HC-CB04	Ling Chen Cyril Chen	23~25 / 58~68	2024/09/03~2024/10/22

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Occupied Bandwidth & DTS Bandwidth	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	9kHz-30MHz, 4line/100A	2023/12/15	2024/12/14
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2023/09/19	2024/09/18
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2024/06/03	2025/06/02
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz-2500 MHz	2024/08/15	2025/08/14
EMI Testing System	Audix	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2023/10/25	2024/10/24
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2024/05/17	2025/05/16
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2024/06/11	2025/06/10
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18E N	1G-18GHz	2023/11/17	2024/11/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
Pre-Amplifier	EMCI	EMC01820I	980364	30M-8 GHz,20 dB	2024/06/04	2025/06/03
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2024/07/16	2025/07/15
Pre-Amplifier	SGH	SGH184	20230411-2	18G-40 GHz,54 dB	2024/04/23	2025/04/22
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2023/11/27	2024/11/26
Magnetic Loop Antenna	AMETEK	HLA6121	49611	9K Hz~ 30M	2024/02/23	2025/02/22
Coaxial Cable(11m)	Suhner	SF102_SF104	HC-CB04	30M-18 GHz	2024/08/07	2025/08/06
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB04-1	18G-40 GHz	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB04_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V

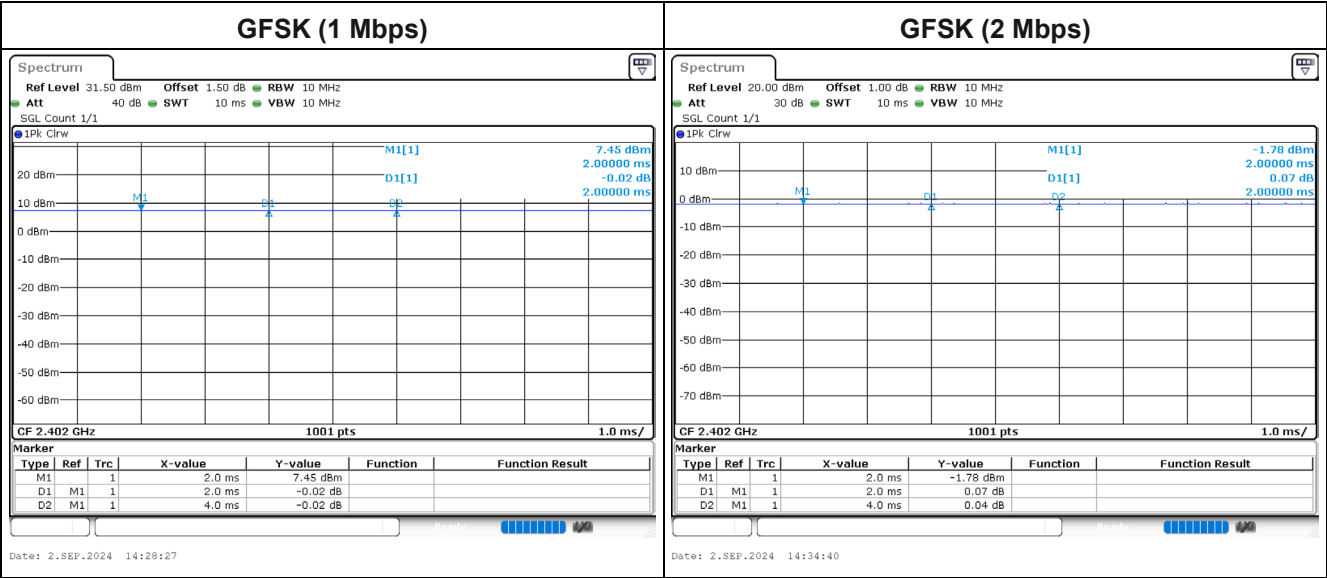
2.2. Test Frequency Mode

Test Software Version	Tera Term Version4.104
-----------------------	------------------------

Modulation	Frequency (MHz)	Power Setting
GFSK (1 Mbps)	2402	x08
	2440	x08
	2480	x08
GFSK (2 Mbps)	2402	x08
	2440	x08
	2480	x08

2.3. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
GFSK (1 Mbps)	--	--	100.00	0.00	0.010
GFSK (2 Mbps)	--	--	100.00	0.00	0.010



2.4. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit
1	EUT 1 (Model: FS-SASE-124G-FPOE) + AC power
2	EUT 2 (Model: FS-SASE-124G) + AC power

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains
1	EUT 1 (Model: FS-SASE-124G-FPOE) + AC power

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
1	EUT 1 (Model: FS-SASE-124G-FPOE) + AC power
2	EUT 2 (Model: FS-SASE-124G) + AC power
Operating Mode > 1GHz	Transmit
1	EUT 1 (Model: FS-SASE-124G-FPOE) + AC power

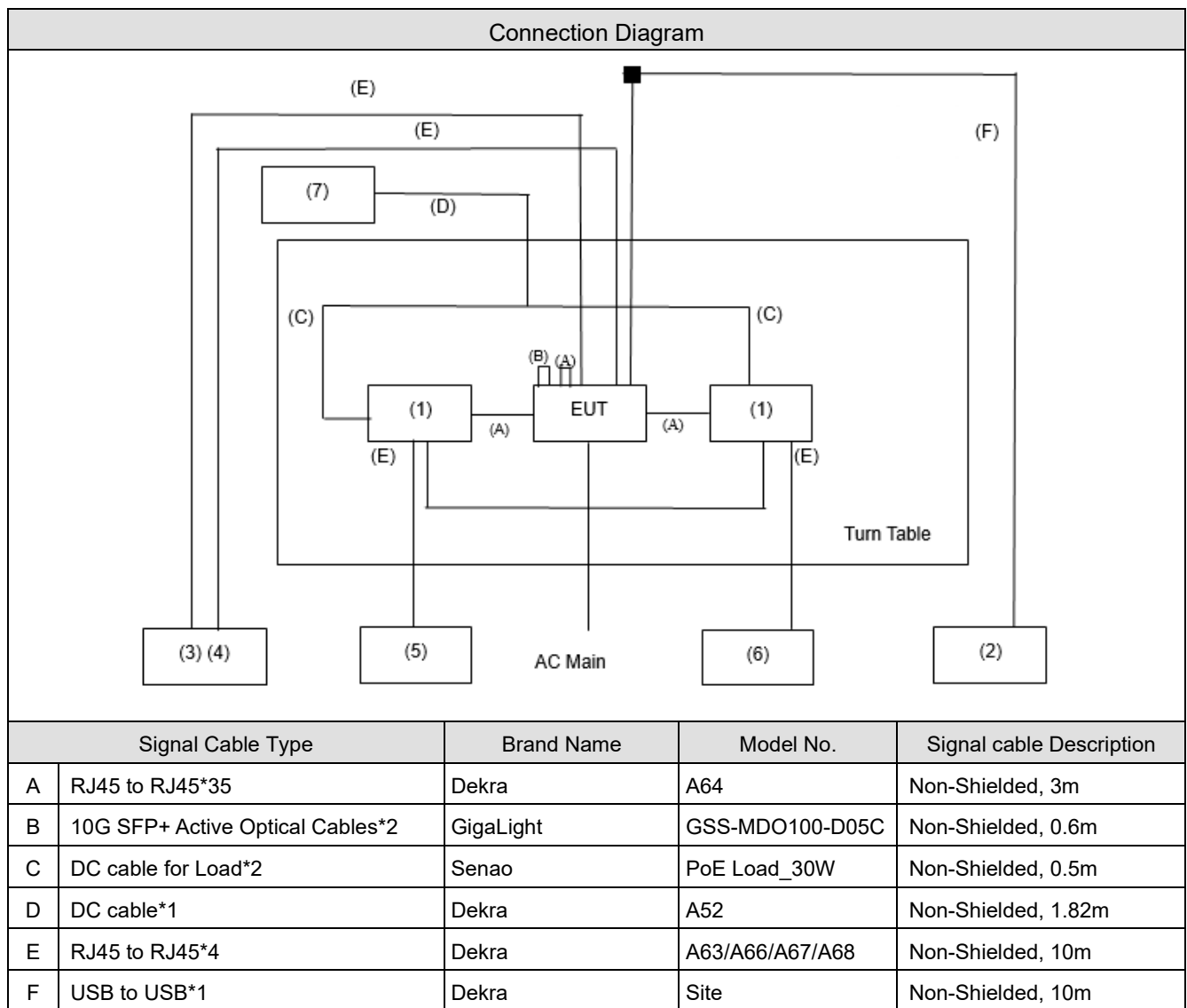
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated spurious emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

2.5. Tested System Details

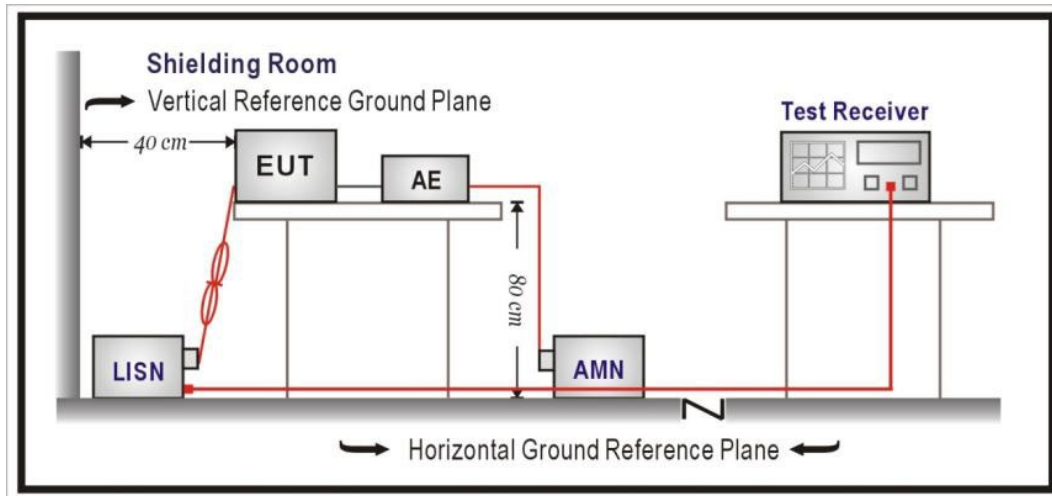
No.	Equipment	Brand Name	Model No.	Serial No.
1	PoE Load*2	Senao	PoE Load_30W	N/A
2	NB-03	Lenovo	Lenovo B590	WB15329782
3	NB-05	ASUS	ASUS X553MA	FAN0CV16858841C
4	NB-06	Acer	Acer Aspire A0753	LUSCV021391150332C2000
5	NB-08	ASUS	E402S	GBN0CV14W050478
6	NB-14	Acer	N16Q2	PF0MEEB0
7	Power Supply	Chroma	62024P-80-60	A01034

2.6. Configuration of Tested System



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

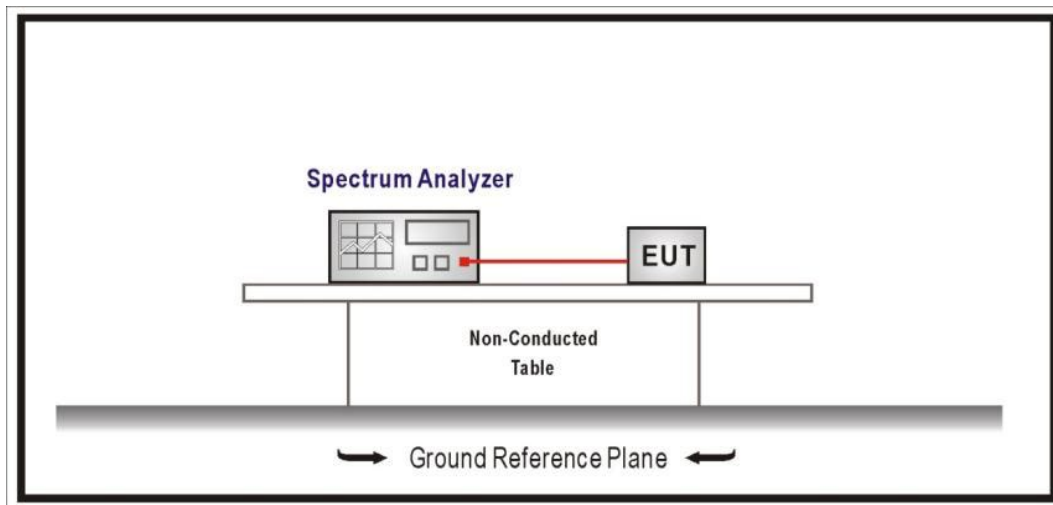
The EUT was setup according to ANSI C63.10: 2013 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Occupied Bandwidth & DTS Bandwidth

4.1. Test Setup



4.2. Test Limit

The 6 dB bandwidth: ≥ 500 kHz.

Occupied Bandwidth: N/A

4.3. Test Procedures

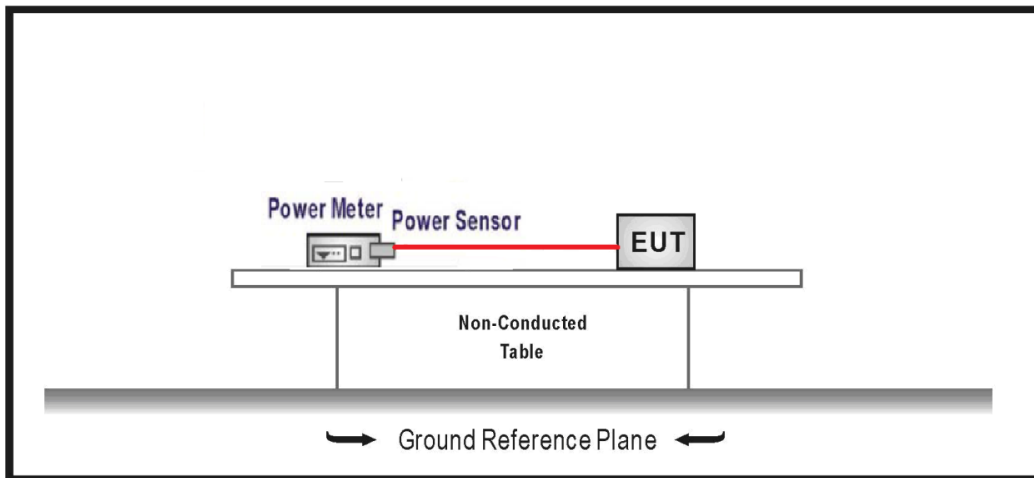
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix B

5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

The Maximum Conducted Output Power shall be less 1 Watt.

5.3. Test Procedures

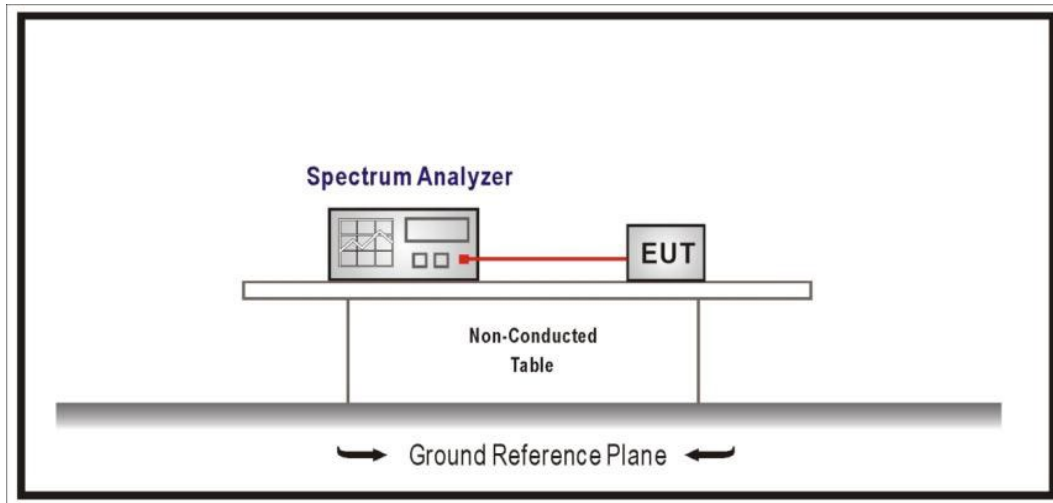
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test Procedures

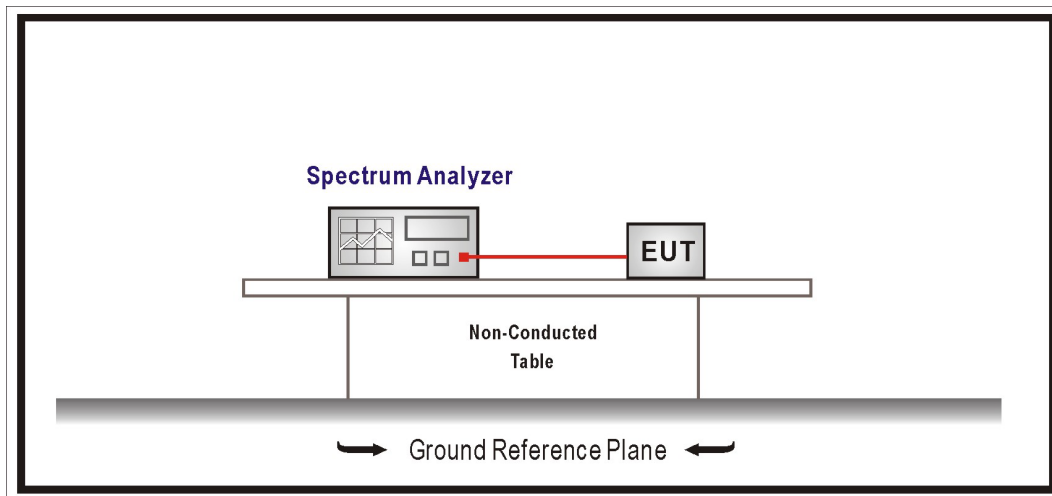
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

7. Antenna Port Conducted Emission

7.1. Test Setup



7.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

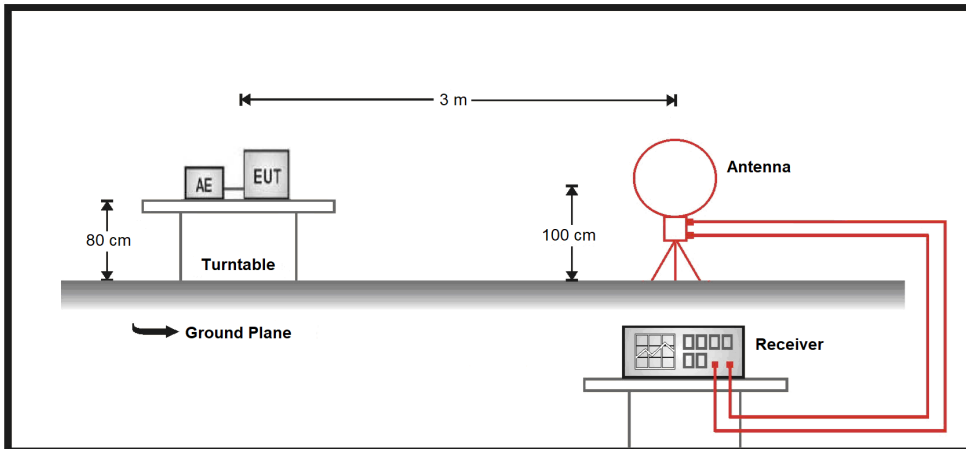
7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

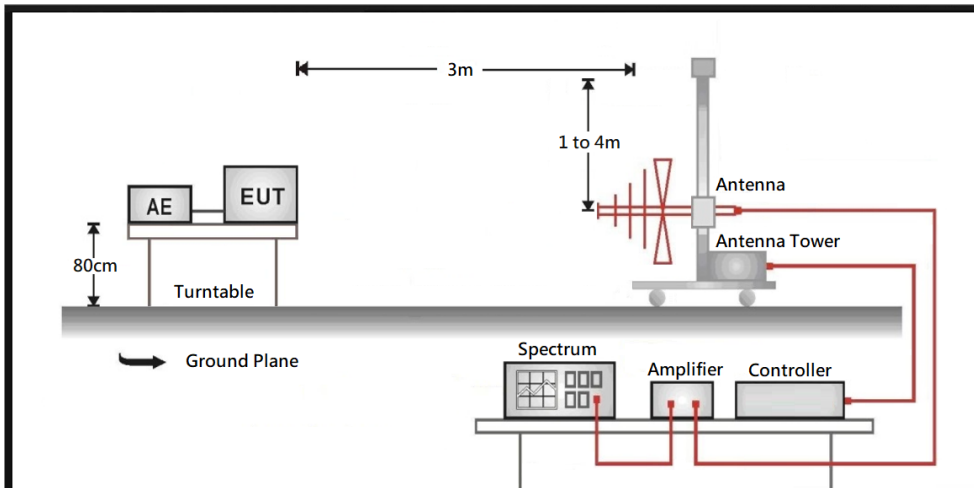
8. Transmitter Radiated Spurious Emission

8.1. Test Setup

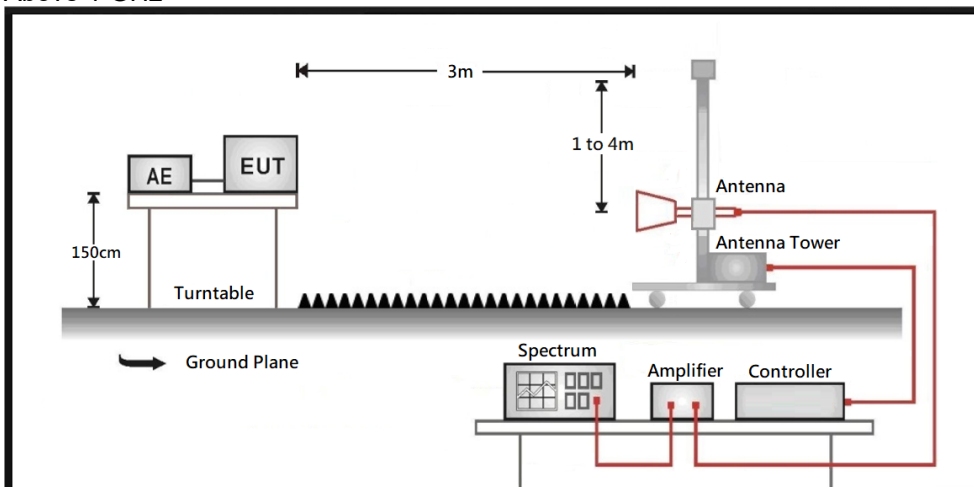
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



8.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

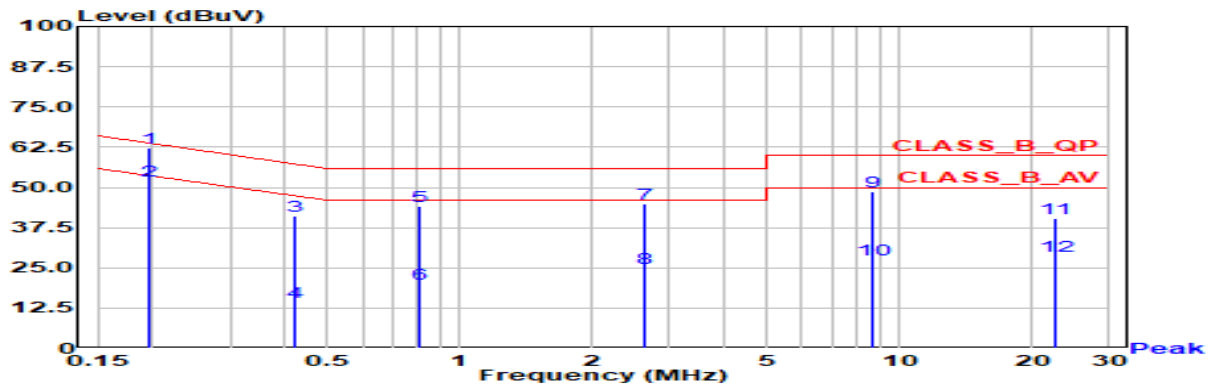
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

8.4. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix F

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1: EUT 1 + AC Power	Phase	Line
Test Condition	GFSK (1 Mbps) / 2402 MHz		

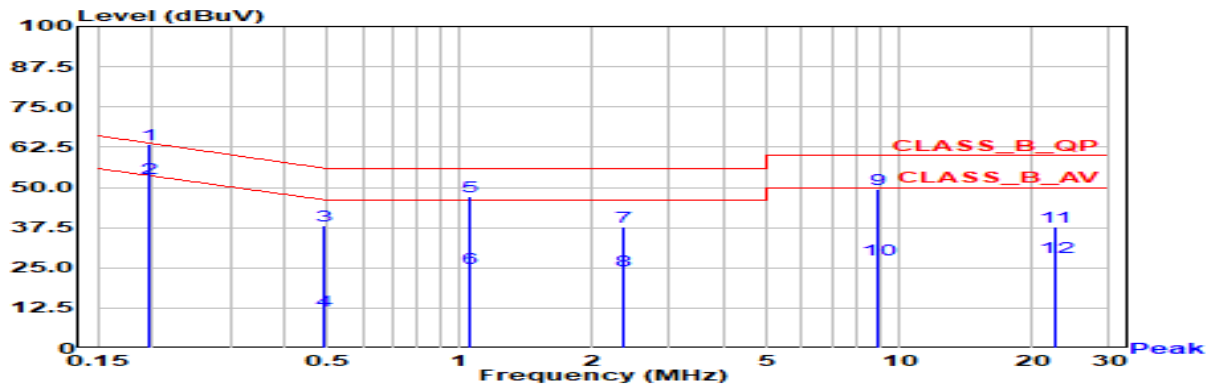


No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
*1	0.197	62.23	63.76	-1.53	52.56	9.67	QP
2	0.197	51.98	53.76	-1.78	42.31	9.67	AV
3	0.419	41.18	57.46	-16.28	31.51	9.67	QP
4	0.419	14.47	47.46	-32.99	4.80	9.67	AV
5	0.805	44.16	56.00	-11.84	34.46	9.70	QP
6	0.805	19.96	46.00	-26.04	10.26	9.70	AV
7	2.636	44.91	56.00	-11.09	35.01	9.90	QP
8	2.636	24.75	46.00	-21.25	14.85	9.90	AV
9	8.730	48.73	60.00	-11.27	38.63	10.10	QP
10	8.730	27.55	50.00	-22.45	17.45	10.10	AV
11	22.655	40.46	60.00	-19.54	29.95	10.52	QP
12	22.655	28.62	50.00	-21.38	18.10	10.52	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1: EUT 1 + AC Power	Phase	Neutral
Test Condition	GFSK (1 Mbps) / 2402 MHz		

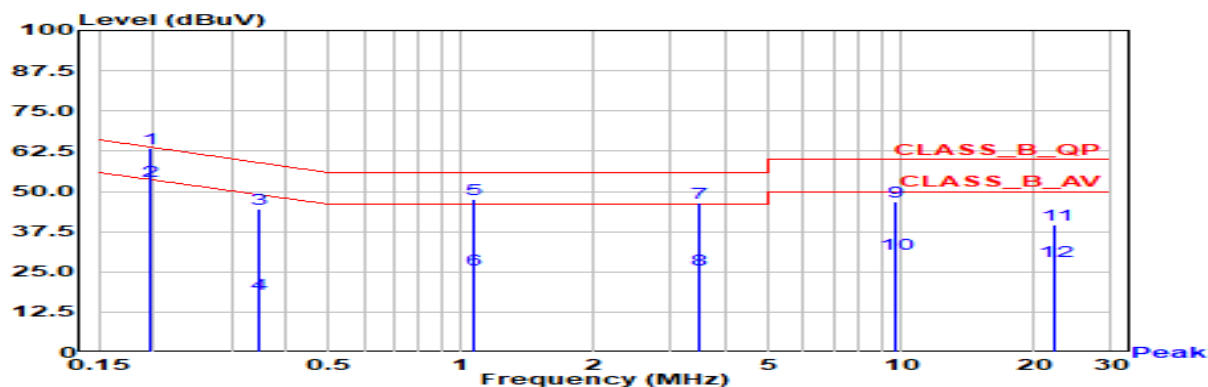


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.197	63.26	63.76	-0.50	53.59	9.67	QP
2	0.197	53.00	53.76	-0.76	43.33	9.67	AV
3	0.491	38.25	56.14	-17.89	28.58	9.67	QP
4	0.491	11.89	46.14	-34.26	2.21	9.67	AV
5	1.060	47.20	56.00	-8.80	37.48	9.72	QP
6	1.060	24.92	46.00	-21.08	15.20	9.72	AV
7	2.346	37.66	56.00	-18.34	27.77	9.89	QP
8	2.346	24.21	46.00	-21.79	14.32	9.89	AV
9	8.917	49.30	60.00	-10.70	39.19	10.10	QP
10	8.917	27.67	50.00	-22.33	17.57	10.10	AV
11	22.534	37.78	60.00	-22.22	27.26	10.51	QP
12	22.534	28.19	50.00	-21.81	17.67	10.51	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2: EUT 2 + AC Power	Phase	Line
Test Condition	GFSK (1 Mbps) / 2402 MHz		

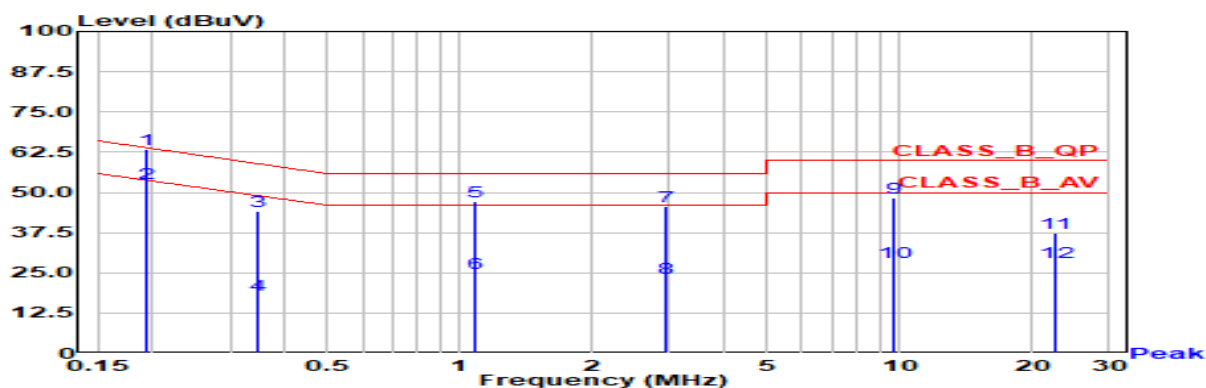


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.195	63.44	63.80	-0.36	53.77	9.67	QP
2	0.195	53.19	53.80	-0.62	43.52	9.67	AV
3	0.346	44.58	59.05	-14.47	34.91	9.67	QP
4	0.346	17.98	49.05	-31.07	8.31	9.67	AV
5	1.065	47.67	56.00	-8.33	37.95	9.72	QP
6	1.065	25.47	46.00	-20.53	15.75	9.72	AV
7	3.454	46.52	56.00	-9.48	36.60	9.92	QP
8	3.454	25.62	46.00	-20.38	15.69	9.92	AV
9	9.653	46.85	60.00	-13.15	36.73	10.13	QP
10	9.653	30.42	50.00	-19.58	20.30	10.13	AV
11	22.418	39.62	60.00	-20.38	29.11	10.51	QP
12	22.418	28.42	50.00	-21.58	17.91	10.51	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2: EUT 2 + AC Power	Phase	Neutral
Test Condition	GFSK (1 Mbps) / 2402 MHz		



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.193	63.26	63.89	-0.63	53.59	9.67	QP
2	0.193	52.79	53.89	-1.09	43.12	9.67	AV
3	0.345	44.21	59.09	-14.88	34.54	9.67	QP
4	0.345	18.26	49.09	-30.83	8.59	9.67	AV
5	1.077	47.26	56.00	-8.74	37.53	9.72	QP
6	1.077	24.77	46.00	-21.23	15.04	9.72	AV
7	2.930	45.62	56.00	-10.38	35.72	9.91	QP
8	2.930	23.51	46.00	-22.49	13.60	9.91	AV
9	9.705	48.27	60.00	-11.73	38.14	10.13	QP
10	9.705	28.47	50.00	-21.53	18.34	10.13	AV
11	22.537	37.41	60.00	-22.59	26.89	10.51	QP
12	22.537	28.12	50.00	-21.88	17.60	10.51	AV

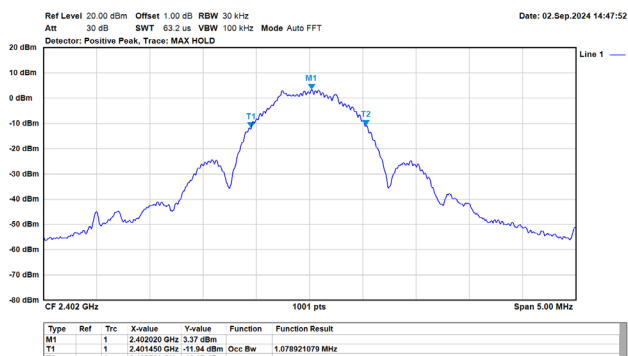
Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

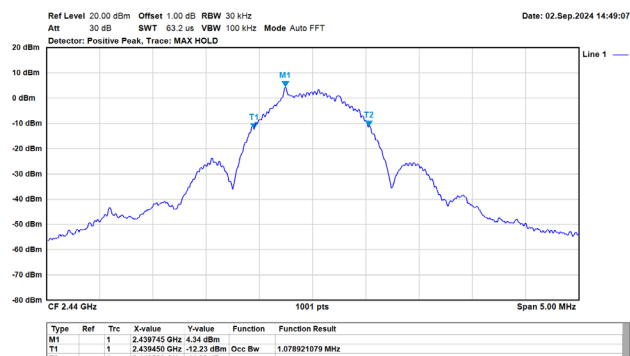
Appendix B.1 Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
GFSK (1 Mbps)	2402	1.078	-
	2440	1.078	-
	2480	1.078	-
GFSK (2 Mbps)	2402	2.072	-
	2440	2.077	-
	2480	2.077	-

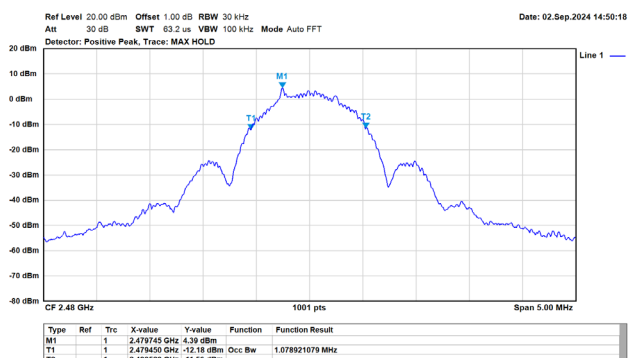
GFSK / 1 MHz / 1M / 2402 MHz / Ch0



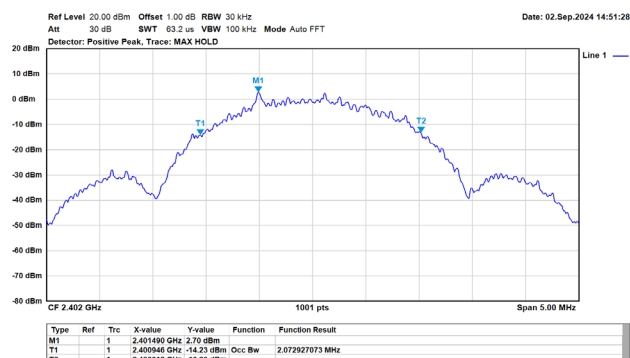
GFSK / 1 MHz / 1M / 2440 MHz / Ch19



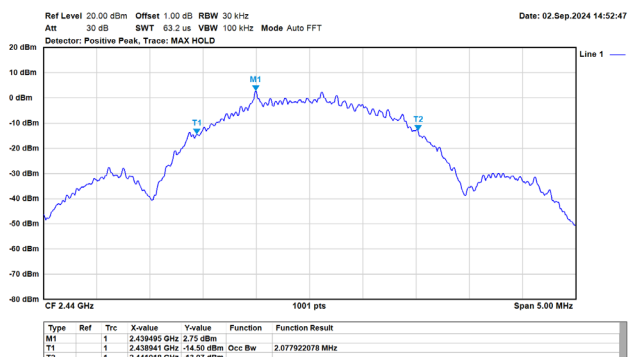
GFSK / 1 MHz / 1M / 2480 MHz / Ch39



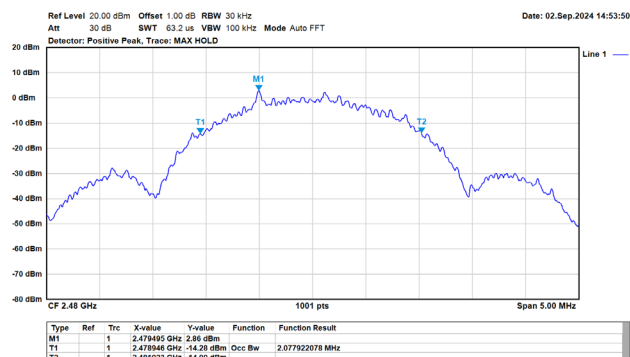
GFSK / 2 MHz / 2M / 2402 MHz / Ch0



GFSK / 2MHz / 2M / 2440 MHz / Ch19



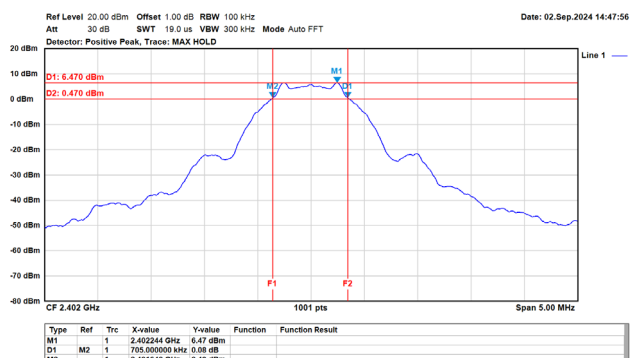
GFSK / 2 MHz / 2M / 2480 MHz / Ch39



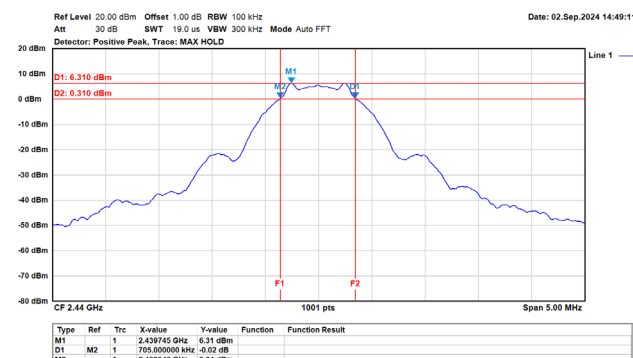
Appendix B.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
GFSK (1 Mbps)	2402	0.705	0.50	Pass
	2440	0.705	0.50	Pass
	2480	0.700	0.50	Pass
GFSK (2 Mbps)	2402	1.390	0.50	Pass
	2440	1.395	0.50	Pass
	2480	1.390	0.50	Pass

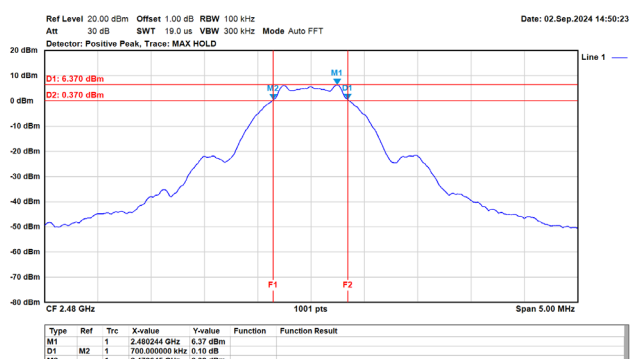
GFSK / 1 MHz / 1M / 2402 MHz / Ch0



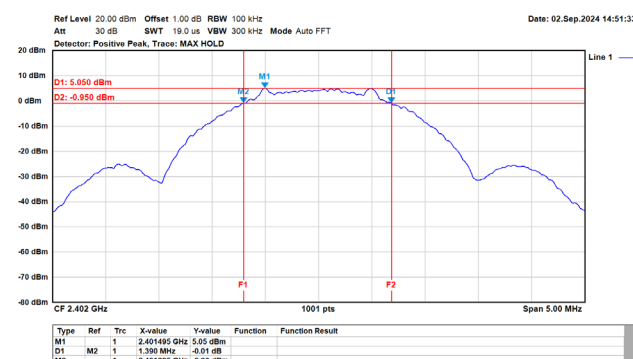
GFSK / 1 MHz / 1M / 2440 MHz / Ch19



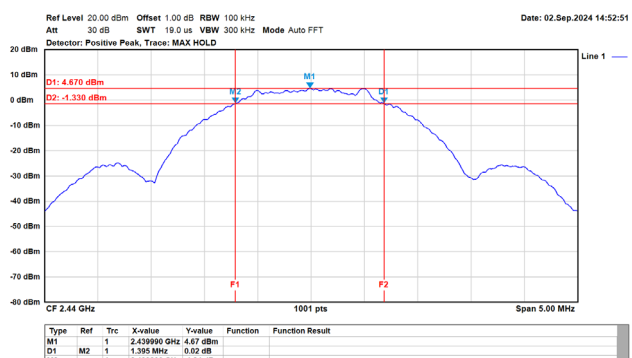
GFSK / 1 MHz / 1M / 2480 MHz / Ch39



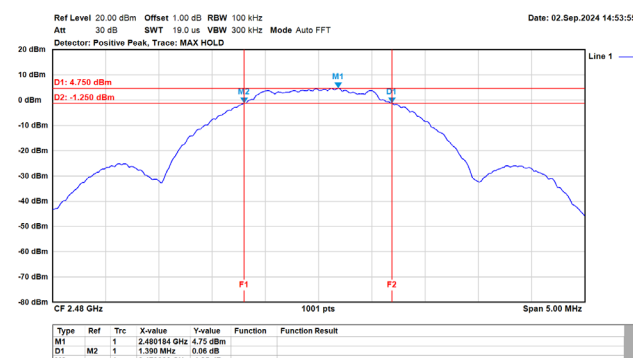
GFSK / 2 MHz / 2M / 2402 MHz / Ch0



GFSK / 2 MHz / 2M / 2440 MHz / Ch19



GFSK / 2MHz / 2M / 2480 MHz / Ch39



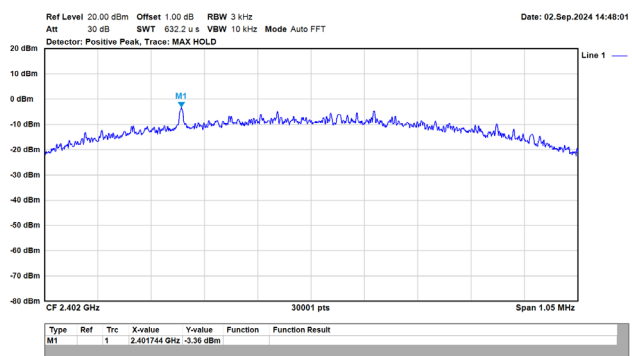
Appendix C. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
GFSK (1 Mbps)	2402	7.22	30.00	Pass
	2440	7.22	30.00	Pass
	2480	7.11	30.00	Pass
GFSK (2 Mbps)	2402	7.12	30.00	Pass
	2440	7.12	30.00	Pass
	2480	7.10	30.00	Pass

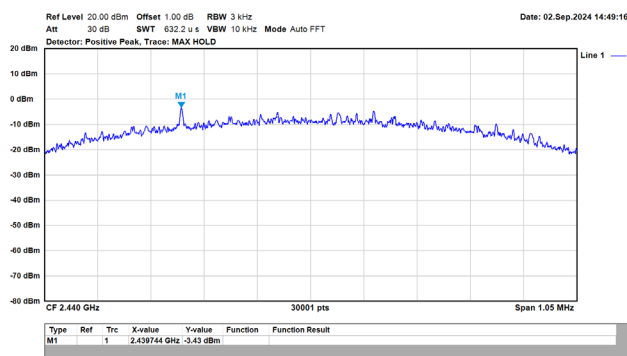
Appendix D. Test Result of Maximum Power Spectral Density

Modulation	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK (1 Mbps)	2402	-3.36	8.00	Pass
	2440	-3.43	8.00	Pass
	2480	-4.64	8.00	Pass
GFSK (2 Mbps)	2402	-6.96	8.00	Pass
	2440	-6.98	8.00	Pass
	2480	-7.84	8.00	Pass

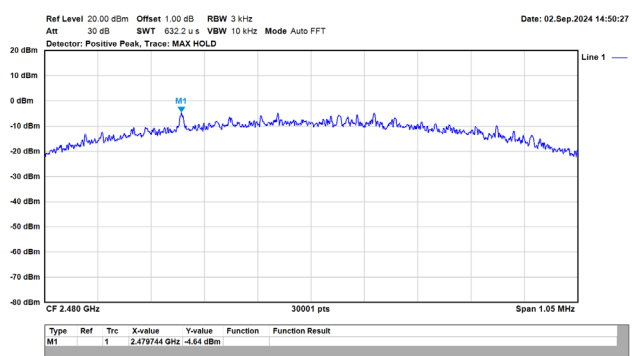
GFSK / 1 MHz / 1M / 2402 MHz / Ch0



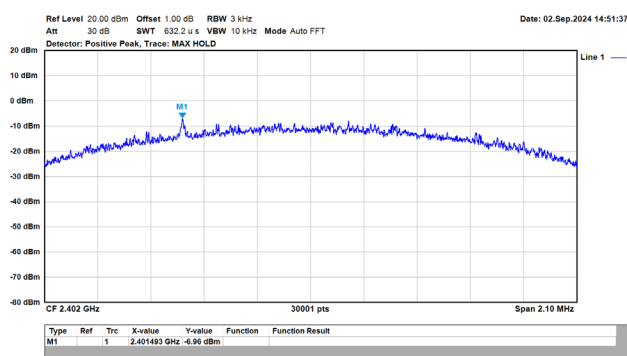
GFSK / 1 MHz / 1M / 2440 MHz / Ch19



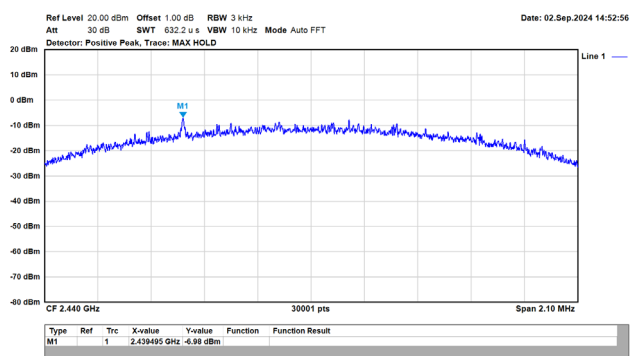
GFSK / 1 MHz / 1M / 2480 MHz / Ch39



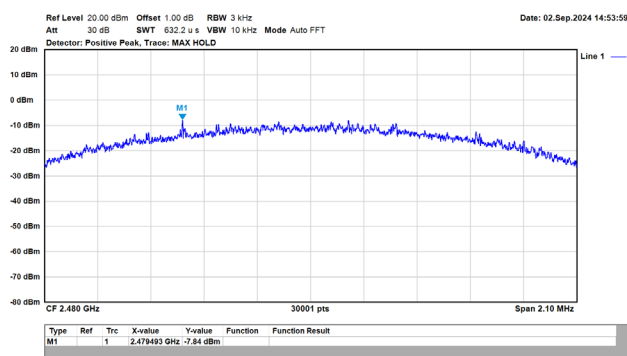
GFSK / 2 MHz / 2M / 2402 MHz / Ch0



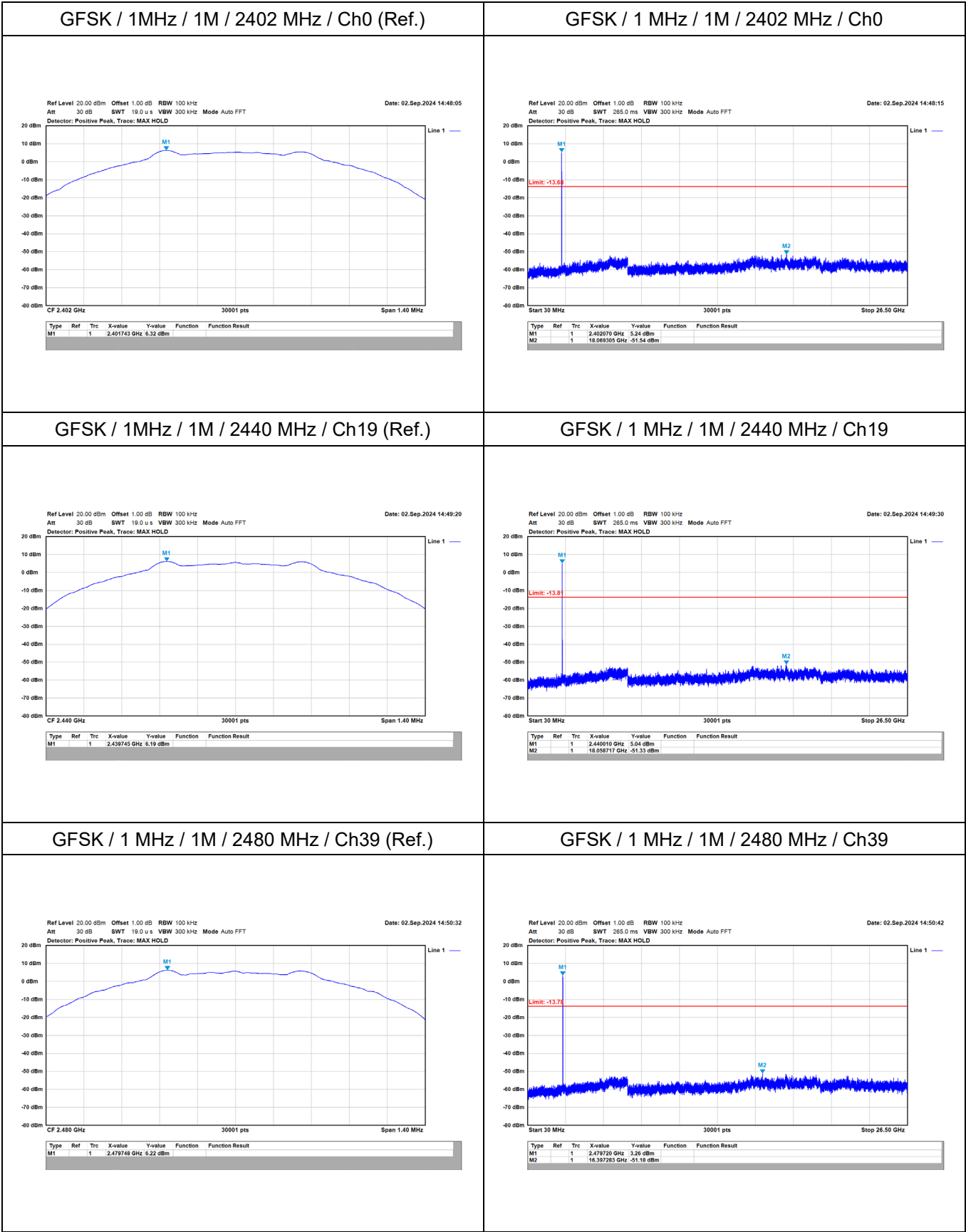
GFSK / 2 MHz / 2M / 2440 MHz / Ch19



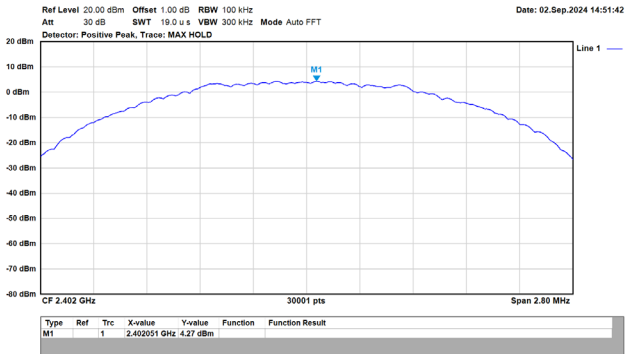
GFSK / 2 MHz / 2M / 2480 MHz / Ch39



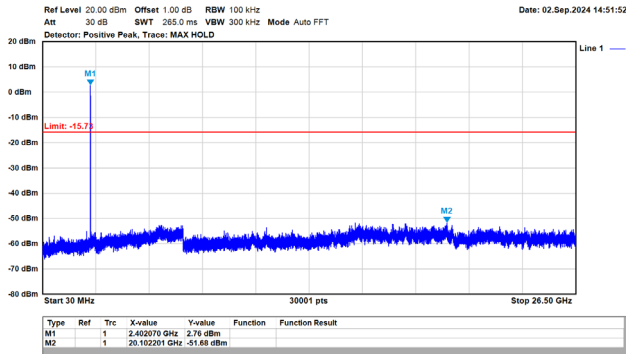
Appendix E. Test Result of Antenna Port Conducted Emission



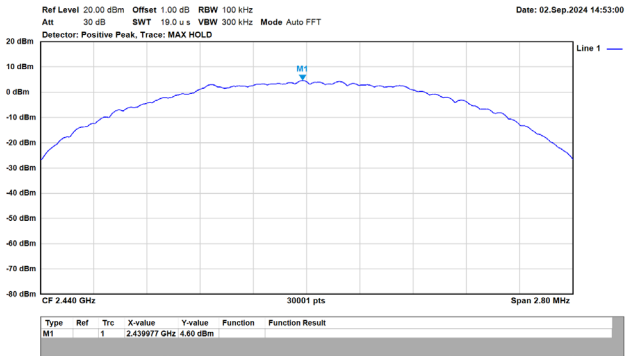
GFSK / 2 MHz / 2M / 2402 MHz / Ch0 (Ref.)



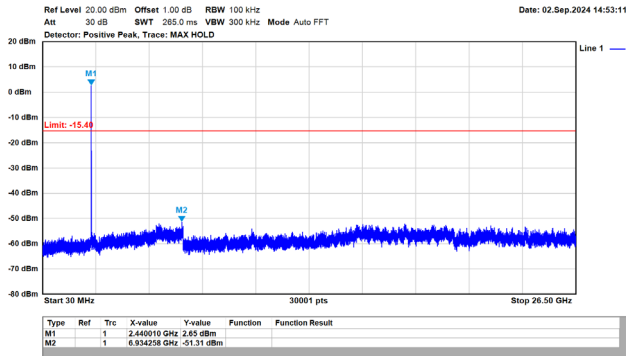
GFSK / 2 MHz / 2M / 2402 MHz / Ch0



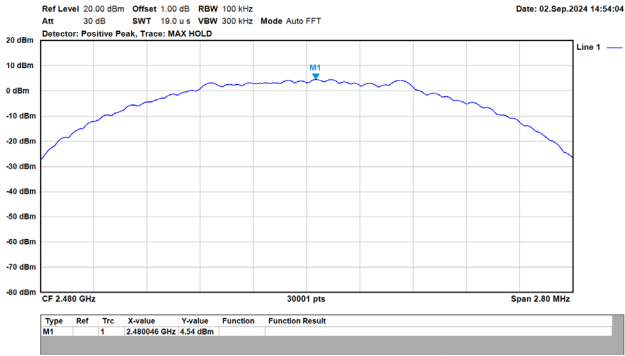
GFSK / 2 MHz / 2M / 2440 MHz / Ch19 (Ref.)



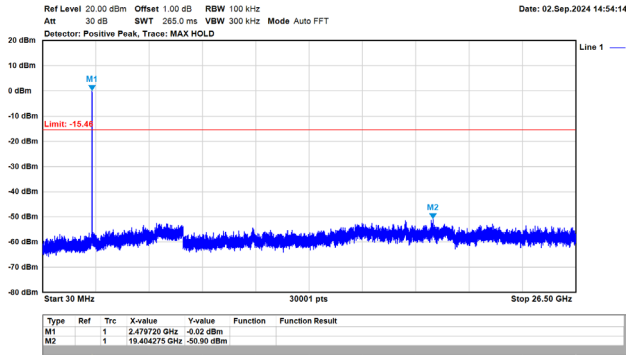
GFSK / 2 MHz / 2M / 2440 MHz / Ch19



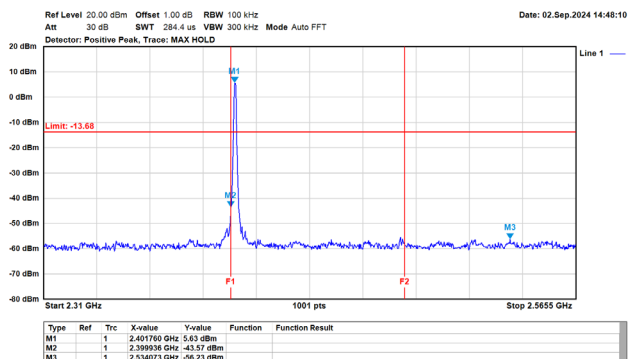
GFSK / 2 MHz / 2M / 2480 MHz / Ch39 (Ref.)



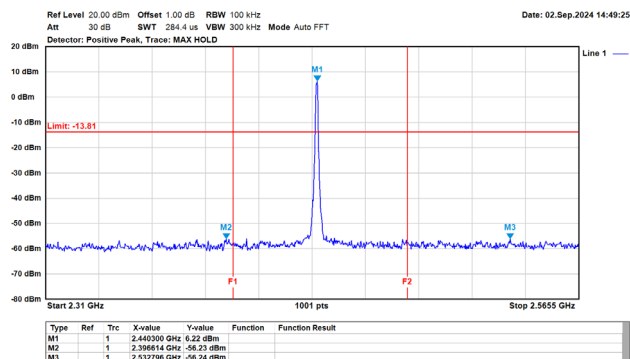
GFSK / 2 MHz / 2M / 2480 MHz / Ch39



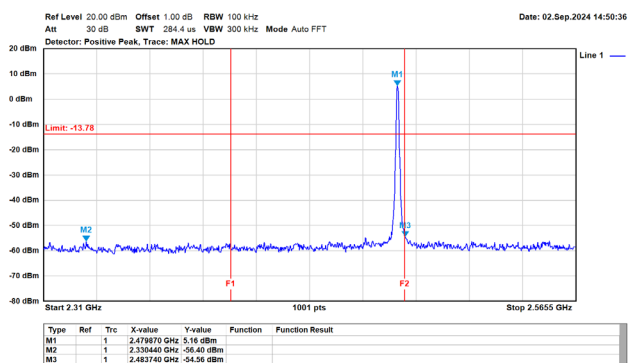
GFSK / 1 MHz / 1M / 2402 MHz / Ch0 (Band Edge)



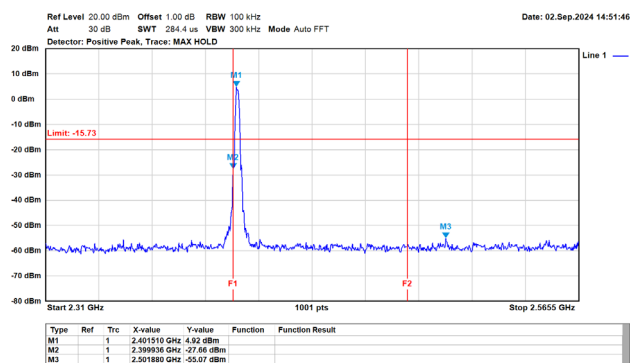
GFSK / 1 MHz / 1M / 2440 MHz / Ch19 (Band Edge)



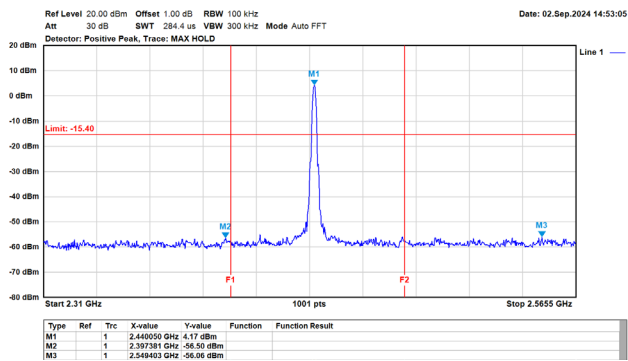
GFSK / 1 MHz / 1M / 2480 MHz / Ch39 (Band Edge)



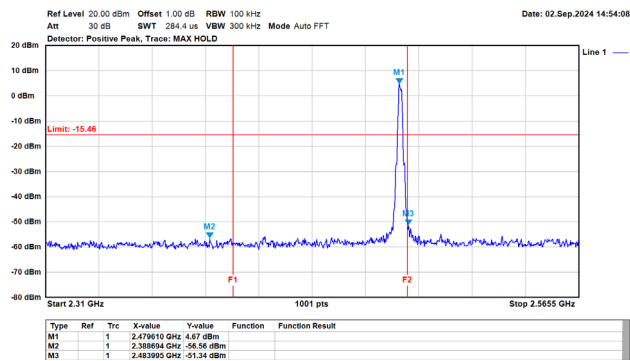
GFSK / 2 MHz / 2M / 2402 MHz / Ch0 (Band Edge)



GFSK / 2 MHz / 2M / 2440 MHz / Ch19 (Band Edge)



GFSK / 2 MHz / 2M / 2480 MHz / Ch39 (Band Edge)

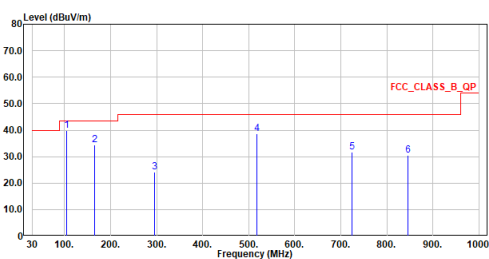


Appendix F. Test Result of Transmitter Radiated Spurious Emission

30 MHz ~ 1 GHz

Mode 1: EUT 1 + AC Power

Site :HC-CB04
Condition :3m Horizontal
Mode :LF_BLE_1M_TX_2402MHz
Test by :Cyril

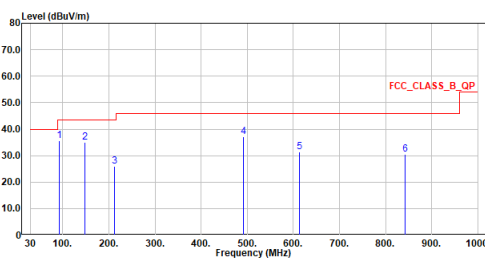


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	103.720	39.86	43.50	-3.64	46.45	-6.59	QP
2	164.830	34.46	43.50	-9.04	37.31	-2.85	QP
3	296.168	24.18	46.00	-21.82	26.25	-2.07	QP
4	517.037	38.70	46.00	-7.30	35.35	3.35	QP
5	725.005	31.62	46.00	-14.38	24.16	7.46	QP
6	845.673	30.41	46.00	-15.59	21.25	9.16	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :LF_BLE_1M_TX_2402MHz
Test by :Cyril



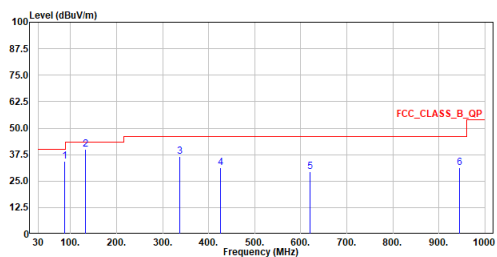
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	91.498	35.65	43.50	-7.85	44.00	-8.35	QP
2	148.437	34.90	43.50	-8.60	37.70	-2.80	QP
3	211.584	25.95	43.50	-17.55	31.91	-5.96	QP
4	492.399	37.12	46.00	-8.88	34.29	2.83	QP
5	612.776	31.38	46.00	-14.62	25.59	5.79	QP
6	842.472	30.37	46.00	-15.63	21.28	9.09	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Mode 2: EUT 2 + AC Power

Site :HC-CB04
 Condition :3m Horizontal
 Mode :LF_BLE_1M_TX_2402MHz
 Test By :Ling Chen

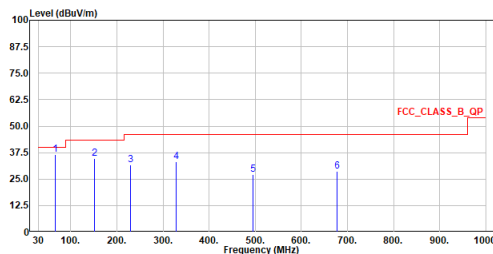


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	86.406	34.46	40.00	-5.54	43.39	-8.93	QP
2	131.899	39.82	43.50	-3.68	44.33	-4.51	QP
3	336.326	36.54	46.00	-9.46	38.19	-1.65	QP
4	425.906	31.40	46.00	-14.60	30.92	0.48	QP
5	619.712	29.35	46.00	-16.65	24.50	4.85	QP
6	945.535	31.43	46.00	-14.57	21.87	9.56	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
 Condition :3m Vertical
 Mode :LF_BLE_1M_TX_2402MHz
 Test By :Ling Chen



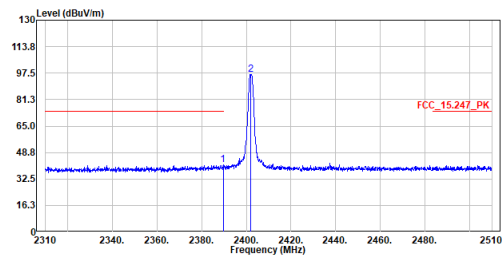
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	66.618	36.47	40.00	-3.53	40.79	-4.32	QP
2	150.620	34.89	43.50	-8.61	37.88	-2.99	QP
3	229.966	31.64	46.00	-14.36	37.39	-5.75	QP
4	327.596	33.28	46.00	-12.72	35.11	-1.83	QP
5	495.455	27.20	46.00	-18.80	25.16	2.04	QP
6	678.009	28.85	46.00	-17.15	23.26	5.59	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Above 1 GHz**Mode 1: EUT 1 + AC Power**

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 3000
Mode :BLE_1M_TX_2402MHz
Test By :Ling Chen

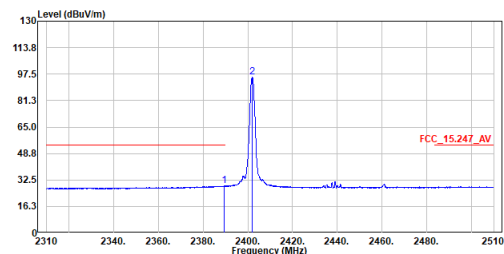


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.600	41.09	74.00	-32.91	30.68	10.41	Peak
2	2401.800	96.52	74.00	22.52	86.08	10.44	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 0.01
Mode :BLE_1M_TX_2402MHz
Test By :Ling Chen

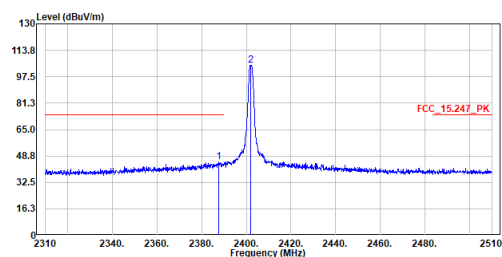


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.400	28.87	54.00	-25.13	18.46	10.41	Average
2	2402.000	95.53	74.00	21.53	85.09	10.44	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 3000
Mode :BLE_1M_TX_2402MHz
Test By :Ling Chen

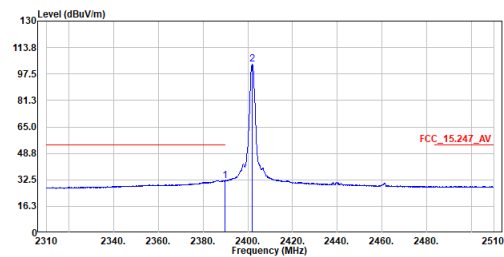


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2387.500	45.04	74.00	-28.96	34.64	10.40	Peak
2	2401.800	104.38	74.00	30.38	93.94	10.44	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 0.01
Mode :BLE_1M_TX_2402MHz
Test By :Ling Chen

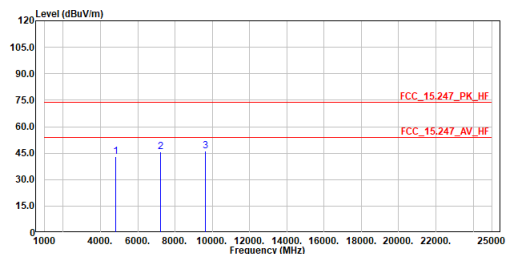


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.800	32.11	54.00	-21.89	21.70	10.41	Average
2	2402.000	103.42	74.00	29.42	92.98	10.44	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :BLE_1M_TX_2402MHz
Test By :Ling Chen

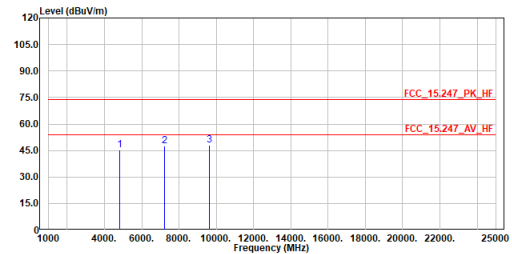


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4804.000	42.80	74.00	-31.20	60.62	-17.82	Peak
2	7206.000	45.61	74.00	-28.39	58.44	-12.83	Peak
3	9608.000	46.19	74.00	-27.81	55.34	-9.15	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :BLE_1M_TX_2402MHz
Test By :Ling Chen

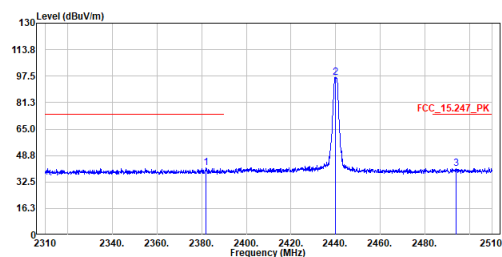


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4804.000	45.29	74.00	-28.71	63.11	-17.82	Peak
2	7206.000	47.69	74.00	-26.31	60.52	-12.83	Peak
3	9608.000	47.79	74.00	-26.21	56.94	-9.15	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 3000
Mode :BLE_1M_TX_2440MHz
Test By :Ling Chen

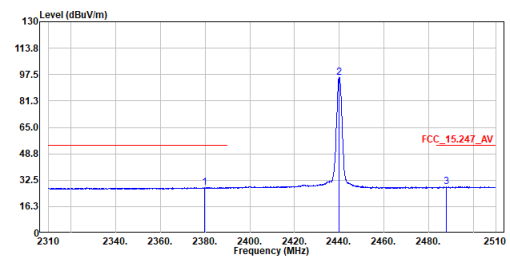


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2382.000	41.01	74.00	-32.99	30.63	10.38	Peak
2	2439.800	96.58	-----	-----	86.05	10.53	Peak
3	2493.900	40.91	74.00	-33.09	30.25	10.66	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 0.01
Mode :BLE_1M_TX_2440MHz
Test By :Ling Chen

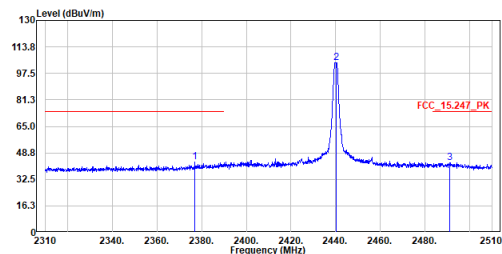


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2379.900	28.13	54.00	-25.87	17.75	10.38	Average
2	2440.000	95.60	-----	-----	85.07	10.53	Average
3	2487.900	28.59	54.00	-25.41	17.94	10.65	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 3000
Mode :BLE_1M_TX_2440MHz
Test By :Ling Chen

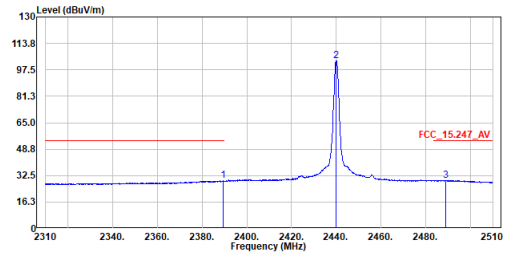


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2376.900	43.01	74.00	-30.99	32.63	10.38	Peak
2	2440.000	104.19	-----	-----	93.65	10.54	Peak
3	2491.100	42.86	74.00	-31.14	32.20	10.66	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 0.01
Mode :BLE_1M_TX_2440MHz
Test By :Ling Chen

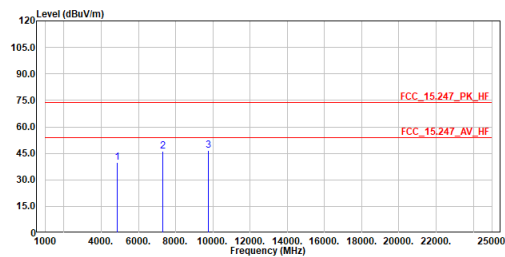


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.300	29.31	54.00	-24.69	18.90	10.41	Average
2	2440.000	103.25	-----	-----	92.72	10.53	Average
3	2488.900	29.66	54.00	-24.34	19.01	10.65	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :BLE_1M_TX_2440MHz
Test By :Ling Chen

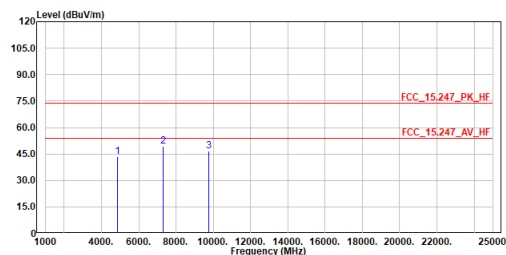


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4880.000	40.04	74.00	-33.96	57.65	-17.61	Peak
2	7320.000	46.24	74.00	-27.76	58.88	-12.64	Peak
3	9760.000	46.69	74.00	-27.31	55.64	-8.95	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :BLE_1M_TX_2440MHz
Test By :Ling Chen

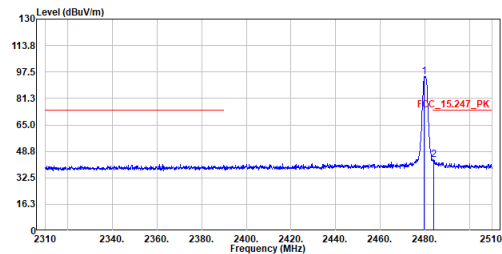


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4880.000	43.69	74.00	-30.31	61.30	-17.61	Peak
2	7320.000	49.32	74.00	-24.68	61.96	-12.64	Peak
3	9760.000	46.62	74.00	-27.38	55.57	-8.95	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 3000
Mode :BLE_1M_TX_2480MHz
Test By :Ling Chen

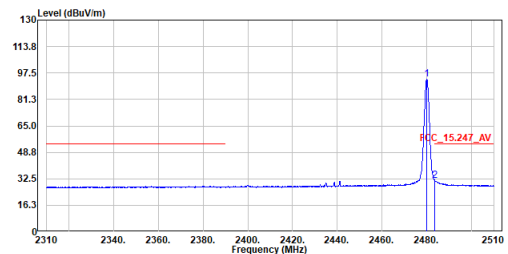


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2479.800	94.54	-----	-----	83.91	10.63	Peak
2	2484.100	43.84	74.00	-30.16	33.19	10.65	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 0.01
Mode :BLE_1M_TX_2480MHz
Test By :Ling Chen

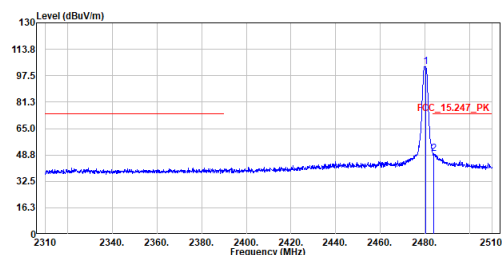


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2480.100	93.67	-----	-----	83.04	10.63	Average
2	2483.600	31.30	54.00	-22.70	20.66	10.64	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 3000
Mode :BLE_1M_TX_2480MHz
Test By :Ling Chen

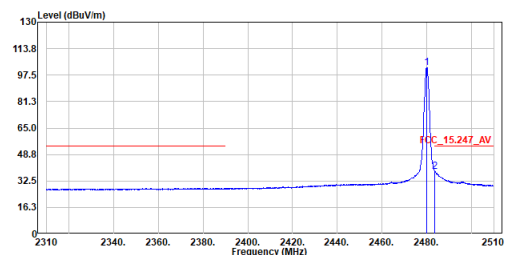


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2480.300	103.14	-----	-----	92.51	10.63	Peak
2	2483.900	49.72	74.00	-24.28	39.07	10.65	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 0.01
Mode :BLE_1M_TX_2480MHz
Test By :Ling Chen

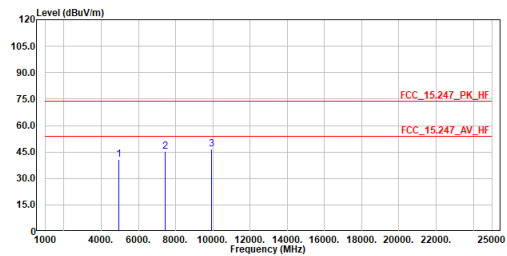


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2480.100	102.23	-----	-----	91.60	10.63	Average
2	2483.600	38.51	54.00	-15.49	27.87	10.64	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :BLE_1M_TX_2480MHz
Test By :Ling Chen

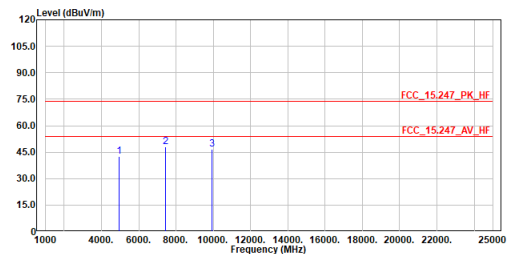


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4960.000	40.81	74.00	-33.19	58.21	-17.40	Peak
2	7440.000	45.43	74.00	-28.57	57.87	-12.44	Peak
3	9920.000	46.66	74.00	-27.34	55.43	-8.77	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :BLE_1M_TX_2480MHz
Test By :Ling Chen

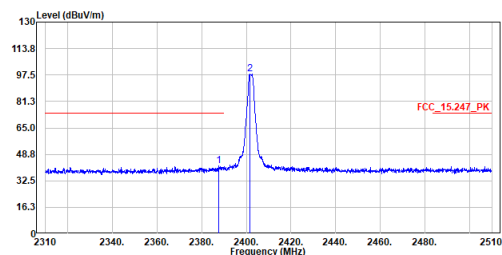


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4960.000	42.58	74.00	-31.42	59.98	-17.40	Peak
2	7440.000	48.21	74.00	-25.79	60.65	-12.44	Peak
3	9920.000	46.80	74.00	-27.20	55.57	-8.77	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 3000
Mode :BLE_2M_TX_2402MHz
Test By :Ling Chen

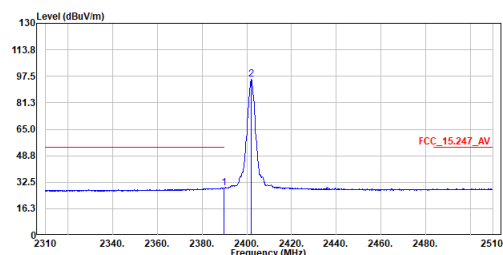


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2387.700	41.45	74.00	-32.55	31.05	10.40	Peak
2	2401.600	98.02	-----	-----	87.58	10.44	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 0.01
Mode :BLE_2M_TX_2402MHz
Test By :Ling Chen

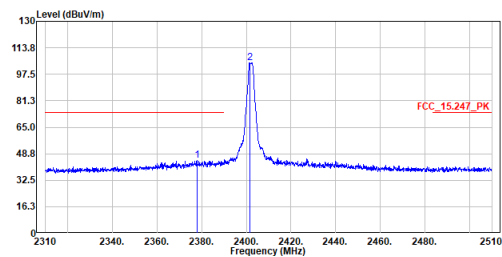


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.900	29.16	54.00	-24.84	18.75	10.41	Average
2	2402.100	95.61	-----	-----	85.17	10.44	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 3000
Mode :BLE_2M_TX_2402MHz
Test By :Ling Chen

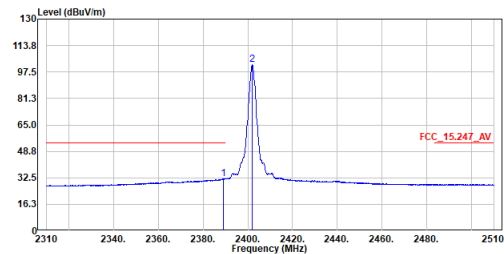


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2377.800	44.80	74.00	-29.20	34.42	10.38	Peak
2	2401.600	104.59	-----	-----	94.15	10.44	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 0.01
Mode :BLE_2M_TX_2402MHz
Test By :Ling Chen

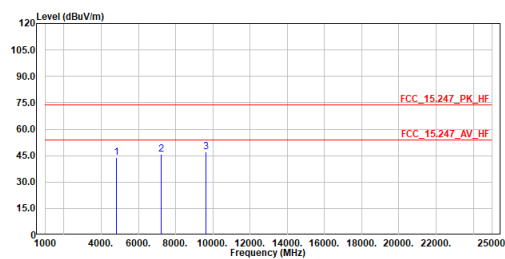


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2388.900	31.84	54.00	-22.16	21.44	10.40	Average
2	2402.000	101.99	-----	-----	91.55	10.44	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :BLE_2M_TX_2402MHz
Test By :Ling Chen

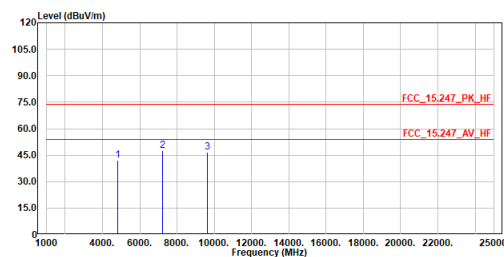


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4804.000	43.85	74.00	-30.15	61.67	-17.82	Peak
2	7206.000	45.66	74.00	-28.34	58.49	-12.83	Peak
3	9608.000	47.05	74.00	-26.95	56.20	-9.15	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :BLE_2M_TX_2402MHz
Test By :Ling Chen

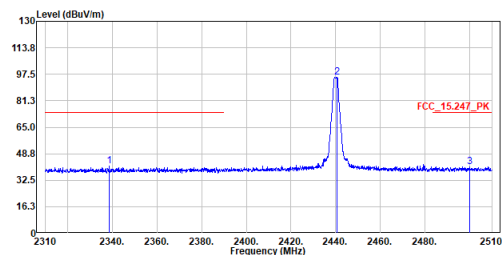


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4804.000	42.24	74.00	-31.76	60.06	-17.82	Peak
2	7206.000	47.73	74.00	-26.27	60.56	-12.83	Peak
3	9608.000	46.73	74.00	-27.27	55.88	-9.15	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 3000
Mode :BLE_2M_TX_2440MHz
Test By :Ling Chen

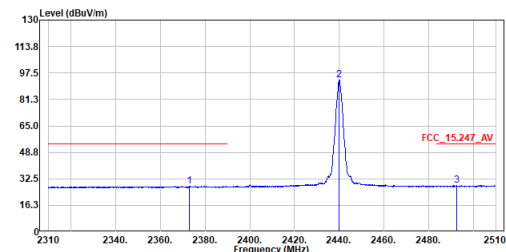


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2338.500	41.05	74.00	-32.95	30.77	10.28	Peak
2	2440.000	95.76	-----	-----	85.22	10.54	Peak
3	2499.900	40.89	74.00	-33.11	30.21	10.68	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 0.01
Mode :BLE_2M_TX_2440MHz
Test By :Ling Chen

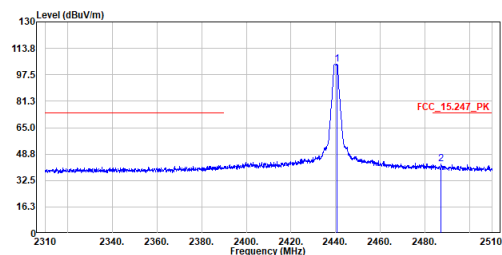


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2373.100	27.99	54.00	-26.01	17.63	10.36	Average
2	2440.000	93.19	-----	-----	82.66	10.53	Average
3	2492.600	28.42	54.00	-25.58	17.76	10.66	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 3000
Mode :BLE_2M_TX_2440MHz
Test By :Ling Chen

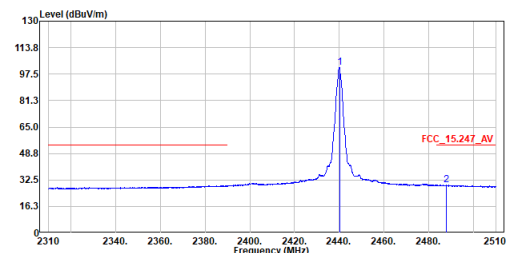


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2440.000	104.12	-----	-----	93.58	10.54	Peak
2	2487.200	42.81	74.00	-31.19	32.16	10.65	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 0.01
Mode :BLE_2M_TX_2440MHz
Test By :Ling Chen

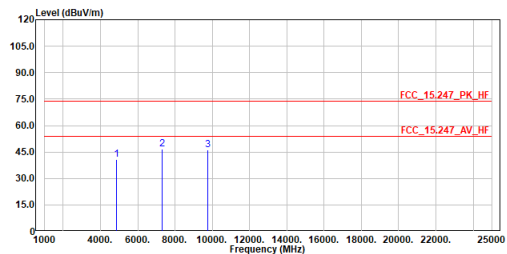


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2440.100	101.47	-----	-----	90.94	10.53	Average
2	2488.000	29.41	54.00	-24.59	18.76	10.65	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :BLE_2M_TX_2440MHz
Test By :Ling Chen

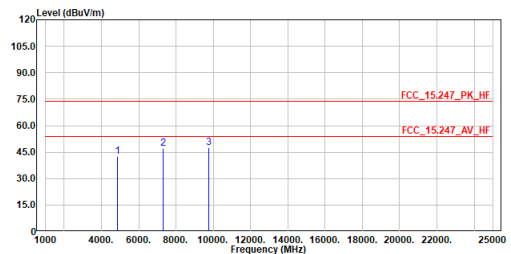


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4880.000	48.97	74.00	-33.03	58.58	-17.61	Peak
2	7320.000	46.53	74.00	-27.47	59.17	-12.64	Peak
3	9760.000	46.10	74.00	-27.90	55.05	-8.95	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :BLE_2M_TX_2440MHz
Test By :Ling Chen

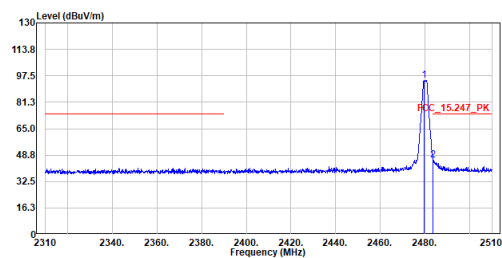


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4880.000	42.51	74.00	-31.49	60.12	-17.61	Peak
2	7320.000	47.26	74.00	-26.74	59.90	-12.64	Peak
3	9760.000	47.41	74.00	-26.59	56.36	-8.95	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 3000
Mode :BLE_2M_TX_2480MHz
Test By :Ling Chen

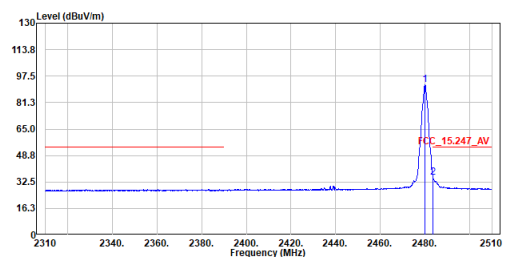


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2479.600	94.72	-----	-----	84.09	10.63	Peak
2	2483.700	45.86	74.00	-28.14	35.21	10.65	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
RB/VB(kHz):1000 / 0.01
Mode :BLE_2M_TX_2480MHz
Test By :Ling Chen

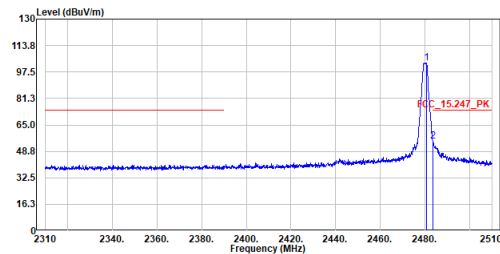


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2480.000	92.17	-----	-----	81.54	10.63	Average
2	2483.600	35.23	54.00	-18.77	24.59	10.64	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 3000
Mode :BLE_2M_TX_2480MHz
Test By :Ling Chen

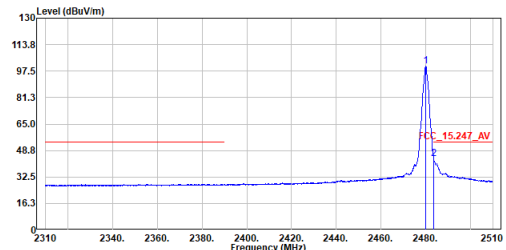


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2480.600	103.06	-----	-----	92.43	10.63	Peak
2	2483.700	54.76	74.00	-19.24	44.11	10.65	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
RB/VB(kHz):1000 / 0.01
Mode :BLE_2M_TX_2480MHz
Test By :Ling Chen

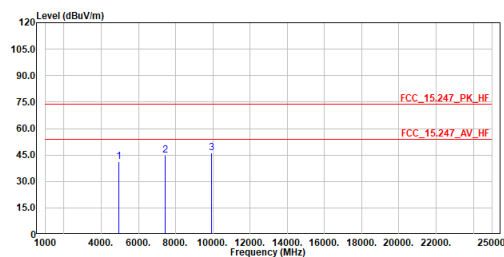


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2480.100	100.56	-----	-----	89.93	10.63	Average
2	2483.600	43.52	54.00	-10.48	32.88	10.64	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :BLE_2M_TX_2480MHz
Test By :Ling Chen

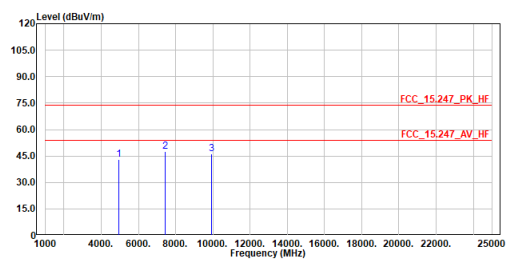


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4960.000	41.12	74.00	-32.88	58.52	-17.40	Peak
2	7440.000	44.88	74.00	-29.12	57.32	-12.44	Peak
3	9920.000	46.17	74.00	-27.83	54.94	-8.77	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :BLE_2M_TX_2480MHz
Test By :Ling Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4960.000	42.98	74.00	-31.02	60.38	-17.40	Peak
2	7440.000	47.65	74.00	-26.35	60.09	-12.44	Peak
3	9920.000	46.15	74.00	-27.85	54.92	-8.77	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.