

Test Report No:
2350790R-RFUSV01S-B

TEST REPORT

FCC Rules&Regulations

Product Name	VX3 HD Outdoor Camera
Brand Name	resideo
Model No.	CAMWE-WO
FCC ID	CFS8DLCAMWEWO1
Applicant's Name / Address	Ademco Inc. 2 Corporate Center Drive, Suite 100, Melville, New York 11747, United States
Manufacturer's Name / Address	XAVi Technologies Corporation 22 F., No. 69, Sec. 2, Guangfu Rd., Sanchong Dist., New Taipei City 241561, Taiwan (R.O.C.)
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	<i>Amelia Wu</i> Amelia Wu
Approved By	<i>Rueyuan Lin</i> Rueyuan Lin
Date of Receipt	May 29, 2023
Date of Issue	Aug. 31, 2023
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	7
1.3. Testing Applied Standards	8
1.4. Testing Location Information	8
1.5. Measurement Uncertainty	9
1.6. List of Test Equipment	10
2. Test Configuration of EUT	11
2.1. Test Condition	11
2.2. Test Channel Mode.....	11
2.3. Duty Cycle	12
2.4. The Worst Case Measurement Configuration	13
2.5. Tested System Details	14
2.6. Configuration of Tested System	14
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. 20dB Bandwidth	17
4.1. Test Setup.....	17
4.2. Test Limit	17
4.3. Test Procedures.....	17
4.4. Test Result of 20dB Bandwidth	17
5. Carrier Frequency Separation	18
5.1. Test Setup.....	18
5.2. Test Limit	18
5.3. Test Procedures.....	18
5.4. Test Result of Carrier Frequency Separation	18
6. Maximum Conducted Output Power	19
6.1. Test Setup.....	19

6.2.	Test Limit	19
6.3.	Test Procedures.....	19
6.4.	Test Result of Maximum Conducted Output Power	19
7.	Number of Hopping Frequency	20
7.1.	Test Setup.....	20
7.2.	Test Limit	20
7.3.	Test Procedure	20
7.4.	Test Result of Number of Hopping Frequency	20
8.	Dwell Time	21
8.1.	Test Setup.....	21
8.2.	Test Limit	21
8.3.	Test Procedure	21
8.4.	Test Result of Dwell Time	21
9.	Antenna Port Conducted Emission	22
9.1.	Test Setup.....	22
9.2.	Test Limit	22
9.3.	Test Procedure	22
9.4.	Test Result of Antenna Port Conducted Emission	22
10.	Transmitter Radiated Spurious Emission	23
10.1.	Test Setup.....	23
10.2.	Test Limit	24
10.3.	Test Procedure	24
10.4.	Test Result of Transmitter Radiated Spurious Emission	24
Appendix A. Test Result of AC Power Line Conducted Emission		
Appendix B. Test Result of 20dB Bandwidth		
Appendix C. Test Result of Carrier Frequency Separation		
Appendix D. Test Result of Maximum Conducted Output Power		
Appendix E. Test Result of Number of Hopping Frequency		
Appendix F. Test Result of Dwell Time		
Appendix G. Test Result of Antenna Port Conducted Emission		
Appendix H. Test Result of Transmitter Radiated Spurious Emission		
Appendix I. 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	Aug. 31, 2023

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	20dB Bandwidth	PASS	-
5	Carrier Frequency Separation	PASS	-
6	Maximum Conducted Output Power	PASS	-
7	Number of Hopping Frequency	PASS	-
8	Dwell Time	PASS	-
9	Antenna Port Conducted Emission	PASS	-
10	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	2402 ~ 2480 MHz
Channel Number	79 Channels
Type of Modulation	Frequency Hopping Spread Spectrum
Data Rate	BR uses a GFSK (1 Mbps)
	EDR uses a combination of $\pi/4$ -DQPSK (2 Mbps) and 8DPSK (3 Mbps)

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	SWITCHING POWER SUPPLY (Adapter)	KLEC	KL-WA120100-E	INPUT: 100-240V, 50/60Hz 0.5A OUTPUT: 12.0V, 1.0A

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
0	LYNwave	ALX18M052AA3	Embedded	1.80

1.2. EUT Information

EUT Power Type	From Adapter / PoE
----------------	--------------------

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	
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 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	Igor Tseng	23 / 58	2023/06/06
RF Conducted Emission	HC-SR12	Clemens Fang	23 / 64	2023/06/08
Radiated Emission	HC-CB04	Scott Chang	21.5~23.5 / 57~59	2023/06/06~2023/06/09

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
20dB Bandwidth	± 282.55 Hz
Carrier Frequency Separation	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Number of Hopping Frequency	N/A
Dwell Time	± 19.555 msec
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	2022/12/19	2023/12/18
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2022/09/28	2023/09/27
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2023/06/02	2024/06/01
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz-2500 MHz	2022/08/15	2023/08/14
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	2022/11/02	2023/11/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2022/11/02	2023/11/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2022/11/02	2023/11/01
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2022/07/13	2023/07/12

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	10 Hz-40 GHz	2022/09/29	2023/09/28
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2022/06/14	2023/06/13
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18E N	1G-18GHz	2022/11/15	2023/11/14
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2023/02/13	2024/02/12
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2023/04/07	2024/04/06
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2022/07/04	2023/07/03
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2022/09/27	2023/09/26
Coaxial Cable(10m)	Suhner	SF102_SF104	HC-CB04	30M-18 GHz	2022/08/08	2023/08/07
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB04_1	18G-40 GHz	2022/08/14	2023/08/13
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2022/12/01	2023/11/30
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2022/10/21	2023/10/20
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/60Hz

2.2. Test Channel Mode

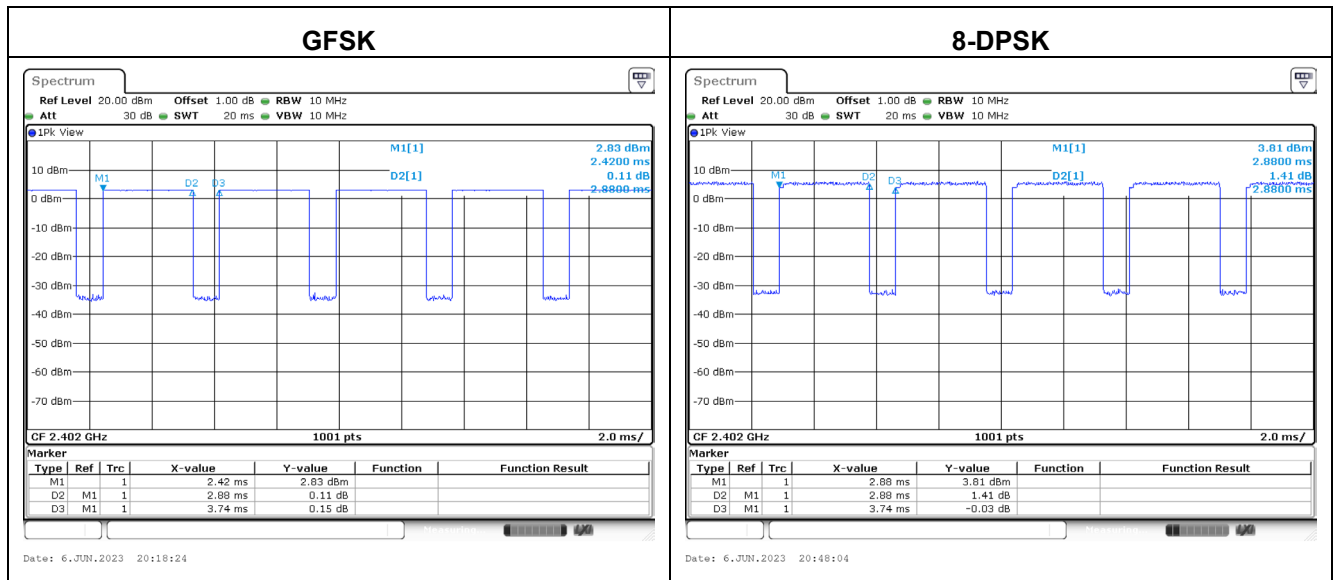
Test Software	TeraTerm
---------------	----------

Modulation	Frequency (MHz)	Power Setting
GFSK	2402	Default
	2441	Default
	2480	Default
8-DPSK	2402	Default
	2441	Default
	2480	Default

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
GFSK	2.880	3.740	77.01	-2.27
8-DPSK	2.880	3.740	77.01	-2.27

Note: If the duty cycle correction factor lower than -20dB, the Max. duty cycle correction factor is -20dB.



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 + Adapter
2	EUT + PoE

Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequency Dwell Time Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

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 + Adapter
2	EUT + PoE
Operating Mode > 1GHz	Transmit
The EUT was performed at X axis, Y axis and Z axis position for transmitter radiated spurious emission test. The worst case was found at Z axis, so the measurement will follow this same test configuration.	

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
3. For radiated 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

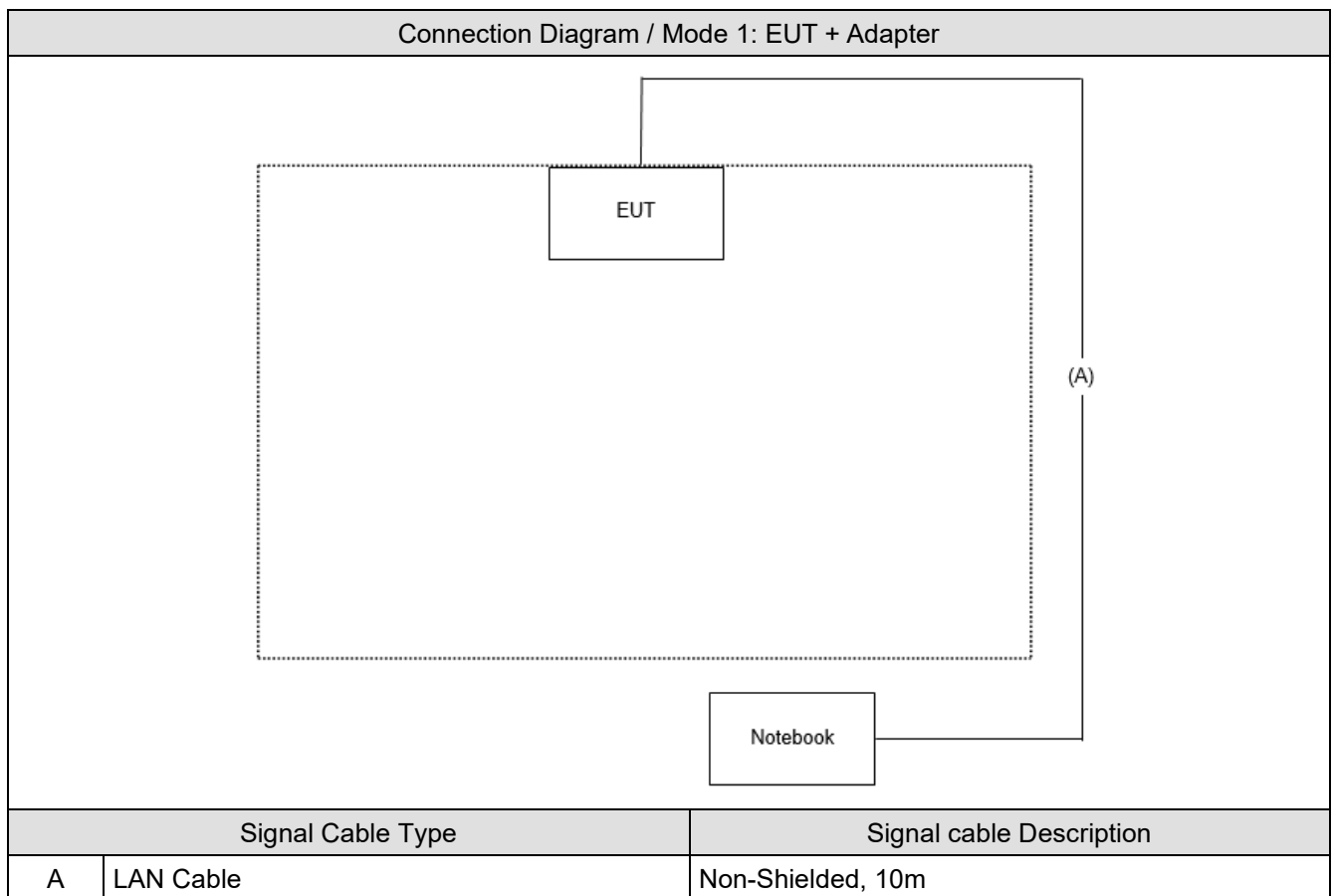
Mode 1: EUT + Adapter

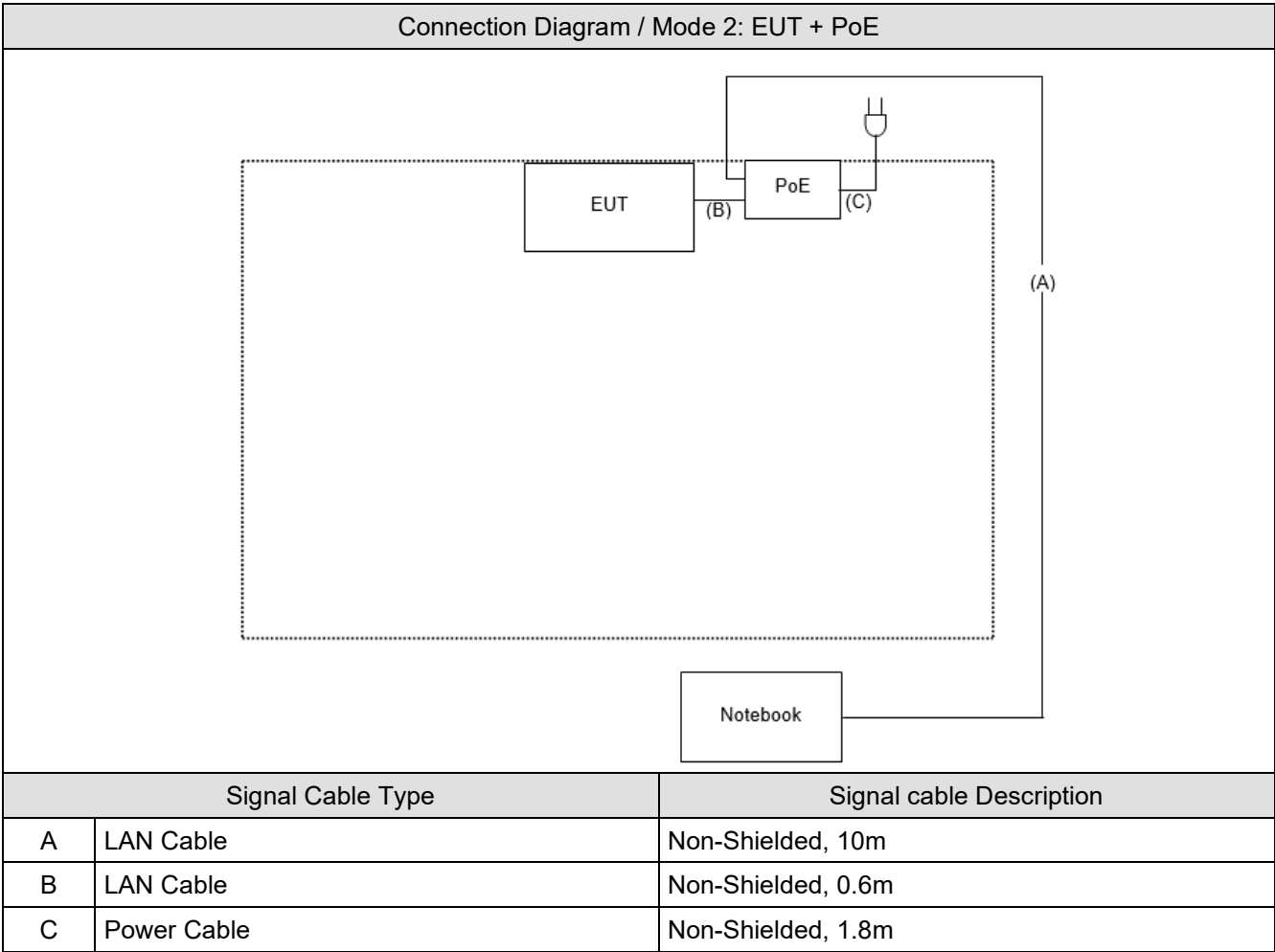
No.	Equipment	Brand Name	Model No.	Serial No.	FCC ID
1	Notebook	DELL	Latitude E6320	8611271467	SDoC

Mode 2: EUT + PoE

No.	Equipment	Brand Name	Model No.	Serial No.	FCC ID
1	Notebook	DELL	Latitude E6320	8611271467	SDoC
2	PoE	BulletPoE	BPI100-H	2205190176	SDoC

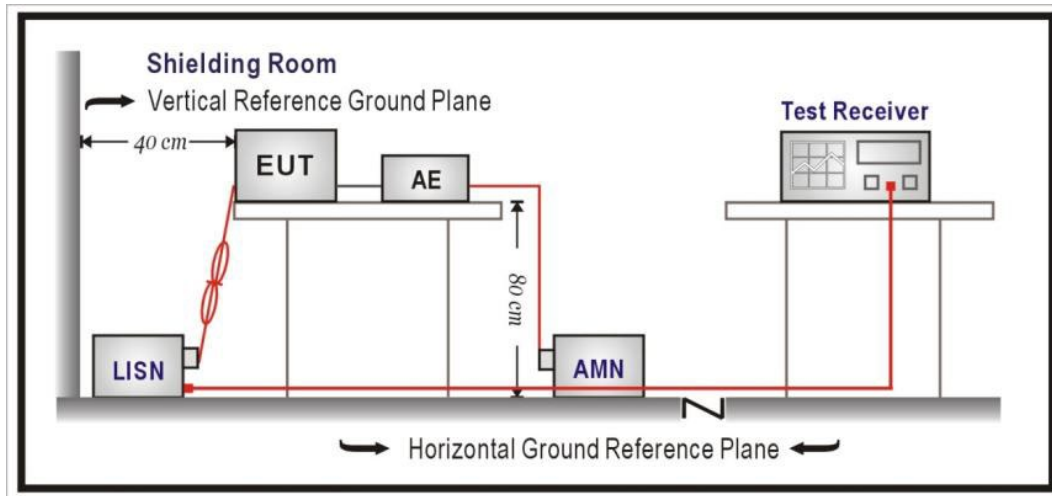
2.6. Configuration of Tested System





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

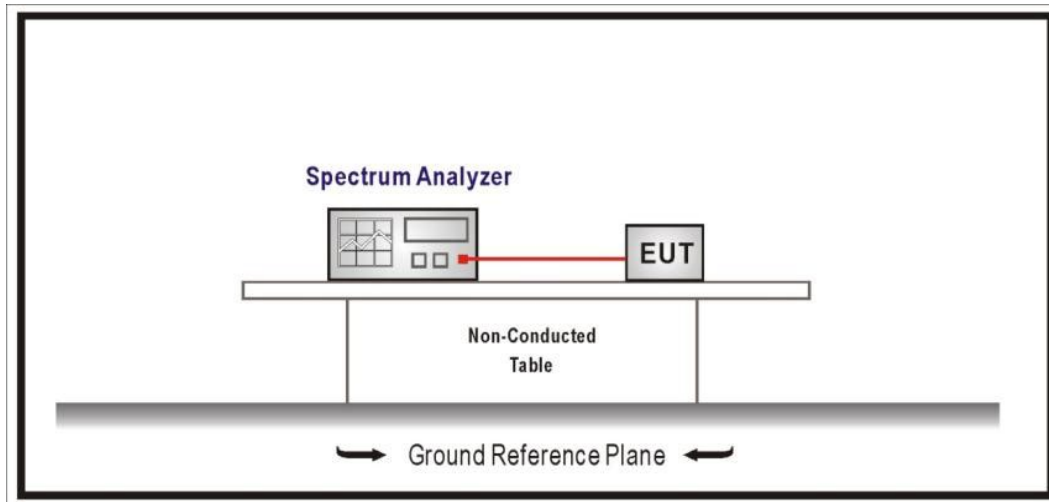
The EUT was setup according to ANSI C63.10: 2013 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. 20dB Bandwidth

4.1. Test Setup



4.2. Test Limit

N/A

4.3. Test Procedures

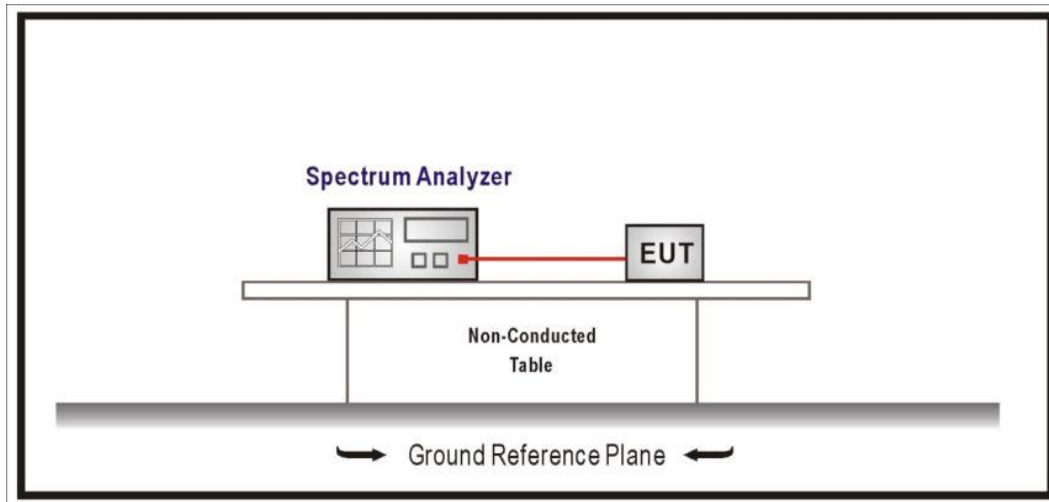
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

4.4. Test Result of 20dB Bandwidth

Refer as Appendix B

5. Carrier Frequency Separation

5.1. Test Setup



5.2. Test Limit

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

5.3. Test Procedures

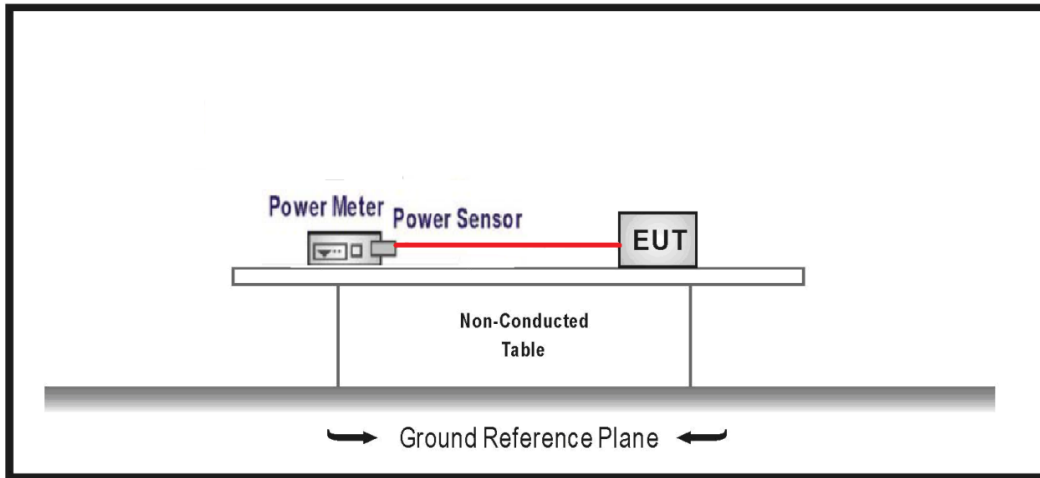
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

5.4. Test Result of Carrier Frequency Separation

Refer as Appendix C

6. Maximum Conducted Output Power

6.1. Test Setup



6.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band:

1. Number of Hopping Frequencies ≥ 50 : 1 watt (30dBm)
2. $50 >$ Number of Hopping Frequencies ≥ 25 : 0.25 watt (23.98dBm)

For frequency hopping systems operating in the 2400 ~ 2483.5 MHz band:

1. Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)
2. $75 >$ Number of Hopping Frequencies ≥ 15 : 0.125 watts (20.97dBm)

For frequency hopping systems operating in the 5725 ~ 5850 MHz band:

Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)

6.3. Test Procedures

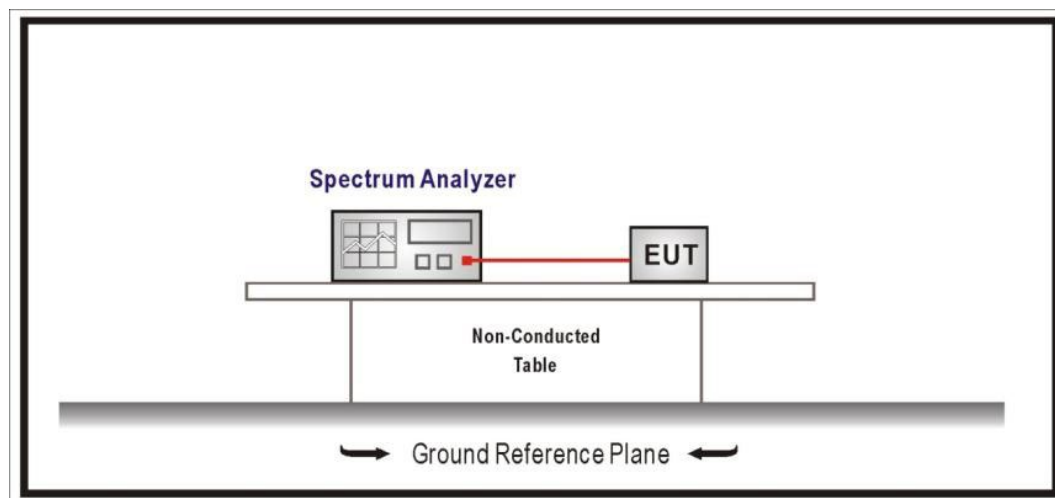
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

6.4. Test Result of Maximum Conducted Output Power

Refer as Appendix D

7. Number of Hopping Frequency

7.1. Test Setup



7.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Frequency hopping systems operating in the 5725 ~ 5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

7.3. Test Procedure

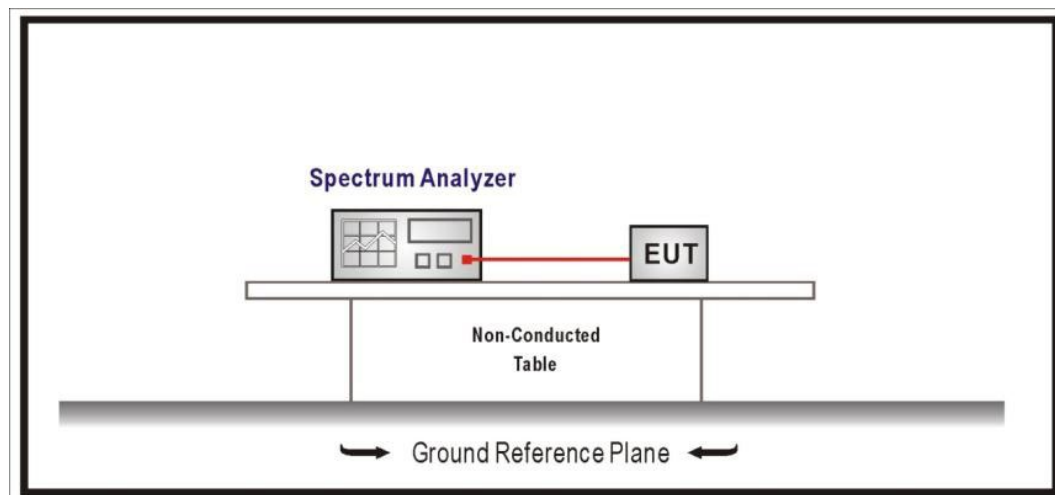
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

7.4. Test Result of Number of Hopping Frequency

Refer as Appendix E

8. Dwell Time

8.1. Test Setup



8.2. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

For frequency hopping systems operating in the 2400-2483.5 MHz bands. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

8.3. Test Procedure

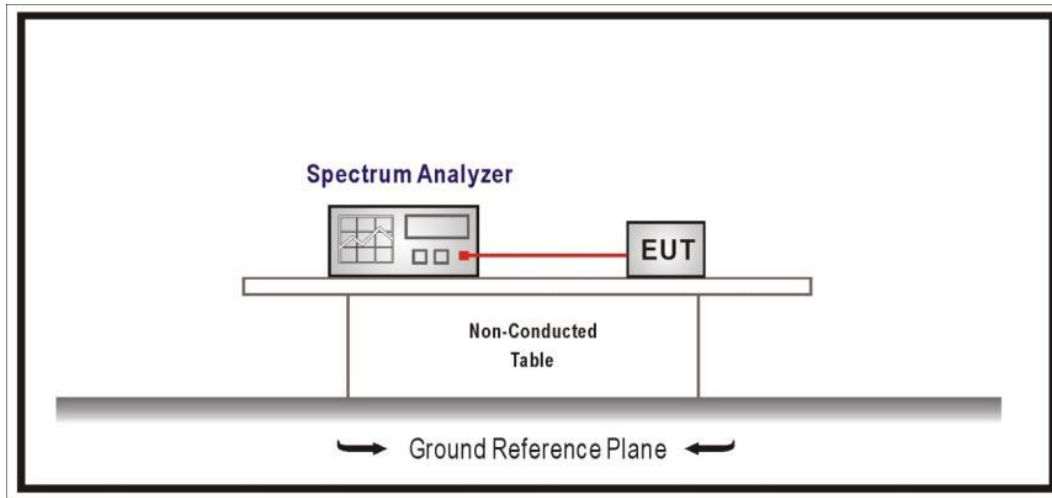
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

8.4. Test Result of Dwell Time

Refer as Appendix F

9. Antenna Port Conducted Emission

9.1. Test Setup



9.2. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.

9.3. Test Procedure

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

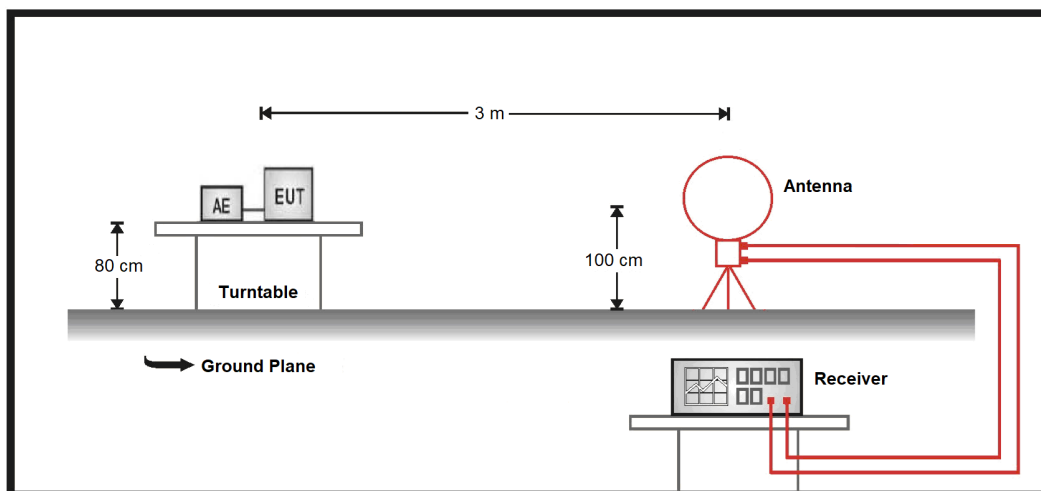
9.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix G

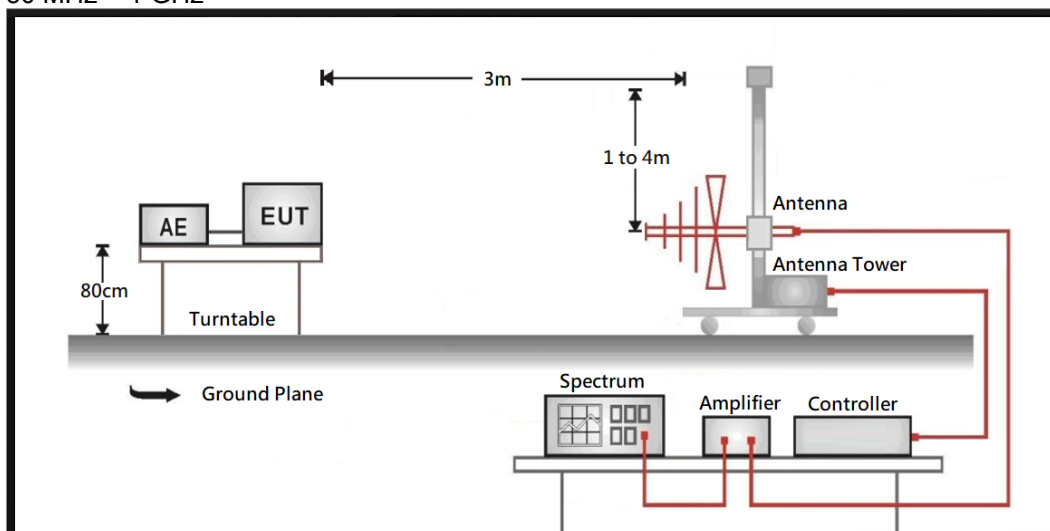
10. Transmitter Radiated Spurious Emission

10.1. Test Setup

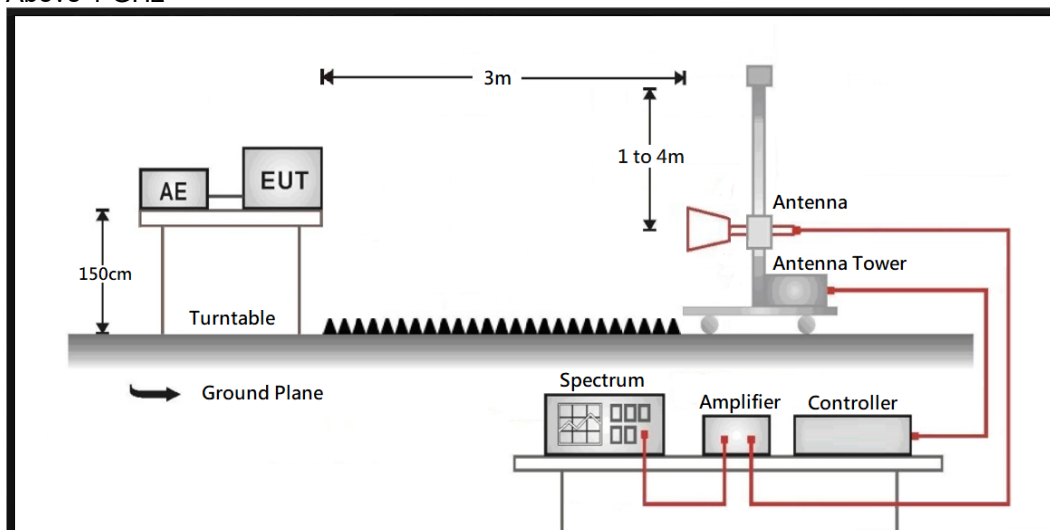
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



10.2. 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.

10.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS 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.

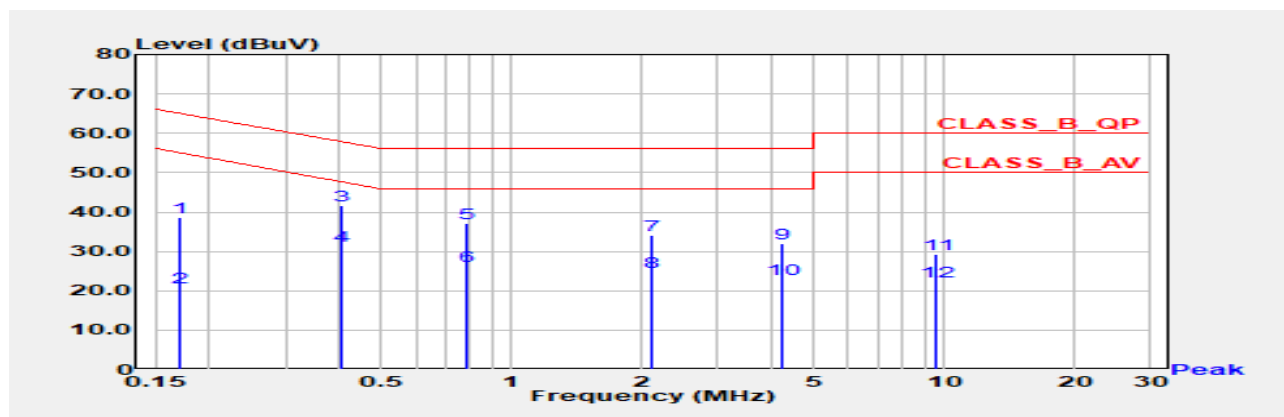
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

10.4. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix H

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1: EUT + Adapter	Phase	Line
Test Condition	GFSK / 2480 MHz		

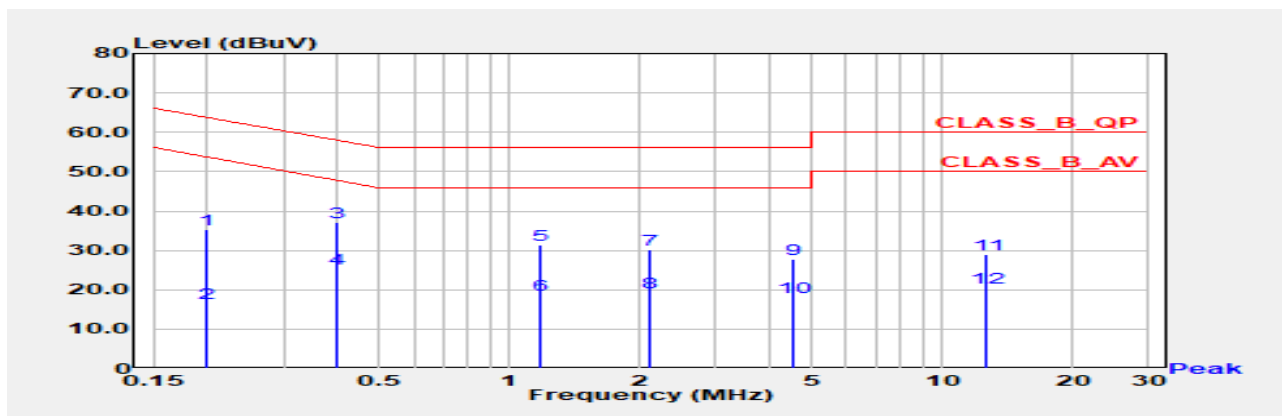


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.170	38.60	64.95	-26.35	28.74	9.85	QP
2	0.170	20.84	54.95	-34.11	10.98	9.85	AV
*3	0.402	41.79	57.81	-16.02	31.91	9.88	QP
*4	0.402	31.27	47.81	-16.54	21.39	9.88	AV
5	0.782	37.04	56.00	-18.96	27.12	9.91	QP
6	0.782	26.15	46.00	-19.85	16.23	9.91	AV
7	2.114	33.97	56.00	-22.03	23.99	9.99	QP
8	2.114	24.65	46.00	-21.35	14.67	9.99	AV
9	4.200	31.87	56.00	-24.13	21.79	10.08	QP
10	4.200	22.83	46.00	-23.17	12.75	10.08	AV
11	9.609	29.28	60.00	-30.72	19.03	10.25	QP
12	9.609	22.43	50.00	-27.57	12.18	10.25	AV

Note:

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 + Adapter	Phase	Neutral
Test Condition	GFSK / 2480 MHz		

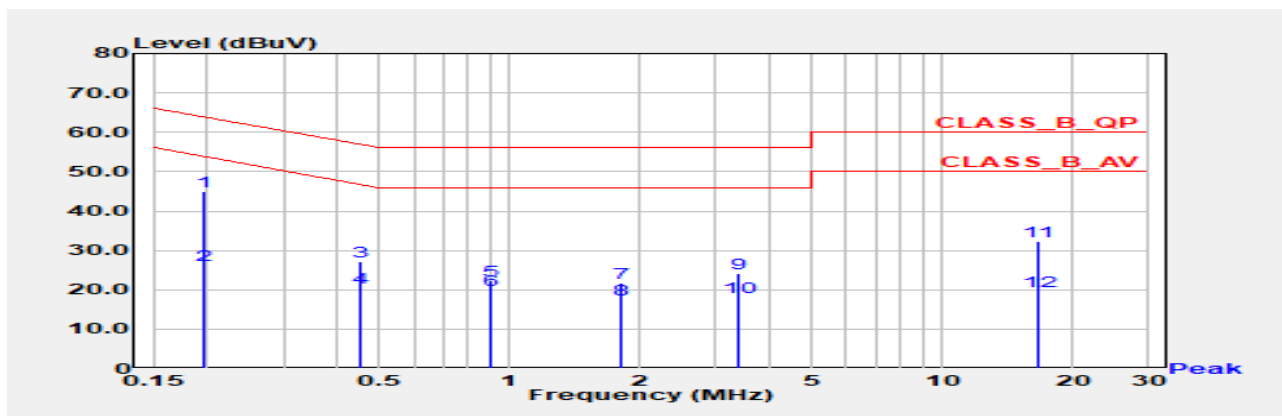


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.199	35.31	63.63	-28.32	25.46	9.85	QP
2	0.199	16.62	53.63	-37.02	6.76	9.85	AV
*3	0.397	37.18	57.91	-20.73	27.31	9.87	QP
*4	0.397	25.43	47.91	-22.48	15.56	9.87	AV
5	1.169	31.30	56.00	-24.70	21.37	9.93	QP
6	1.169	18.80	46.00	-27.20	8.87	9.93	AV
7	2.116	30.18	56.00	-25.82	20.20	9.97	QP
8	2.116	19.36	46.00	-26.64	9.38	9.97	AV
9	4.513	27.69	56.00	-28.31	17.63	10.06	QP
10	4.513	18.24	46.00	-27.76	8.17	10.06	AV
11	12.653	29.12	60.00	-30.88	18.88	10.24	QP
12	12.653	20.62	50.00	-29.38	10.38	10.24	AV

Note:

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 + PoE	Phase	Line
Test Condition	GFSK / 2480 MHz		

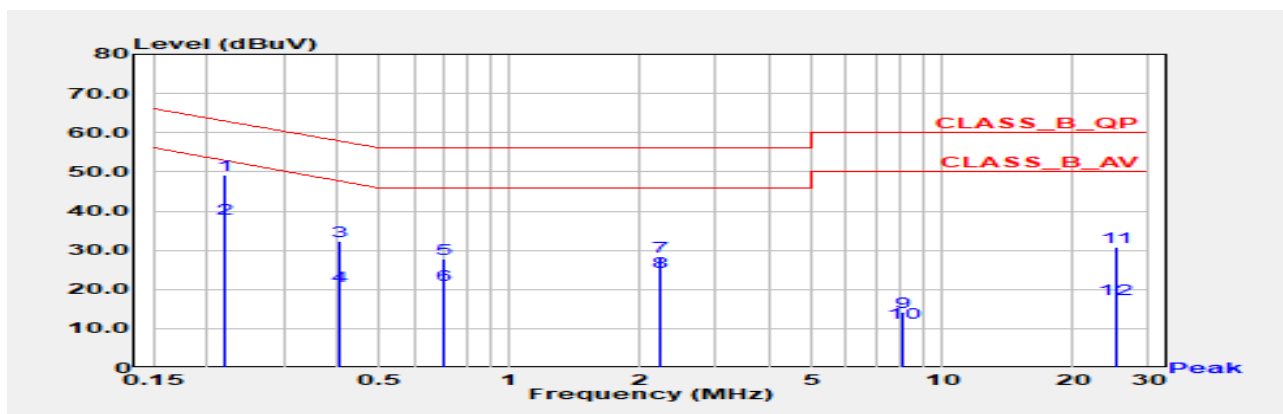


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.197	45.02	63.73	-18.71	35.15	9.87	QP
2	0.197	26.22	53.73	-27.51	16.34	9.87	AV
3	0.449	27.28	56.89	-29.60	17.40	9.89	QP
4	0.449	20.42	46.89	-26.47	10.54	9.89	AV
5	0.899	22.42	56.00	-33.58	12.50	9.92	QP
*6	0.899	19.77	46.00	-26.23	9.85	9.92	AV
7	1.797	21.83	56.00	-34.17	11.86	9.97	QP
8	1.797	17.52	46.00	-28.48	7.55	9.97	AV
9	3.397	24.03	56.00	-31.97	13.99	10.05	QP
10	3.397	18.08	46.00	-27.92	8.04	10.05	AV
11	16.611	32.38	60.00	-27.62	22.00	10.38	QP
12	16.611	19.74	50.00	-30.26	9.37	10.38	AV

Note:

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 + PoE	Phase	Neutral
Test Condition	GFSK / 2480 MHz		



No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
*1	0.220	49.08	62.83	-13.75	39.23	9.86	QP
*2	0.220	37.99	52.83	-14.84	28.14	9.86	AV
3	0.406	32.21	57.72	-25.51	22.34	9.87	QP
4	0.406	20.86	47.72	-26.86	10.99	9.87	AV
5	0.706	27.64	56.00	-28.36	17.74	9.90	QP
6	0.706	21.12	46.00	-24.88	11.22	9.90	AV
7	2.240	28.44	56.00	-27.56	18.46	9.98	QP
8	2.240	24.38	46.00	-21.62	14.40	9.98	AV
9	8.068	14.32	60.00	-45.68	4.16	10.16	QP
10	8.068	11.36	50.00	-38.64	1.20	10.16	AV
11	25.097	30.75	60.00	-29.25	20.33	10.42	QP
12	25.097	17.40	50.00	-32.60	6.98	10.42	AV

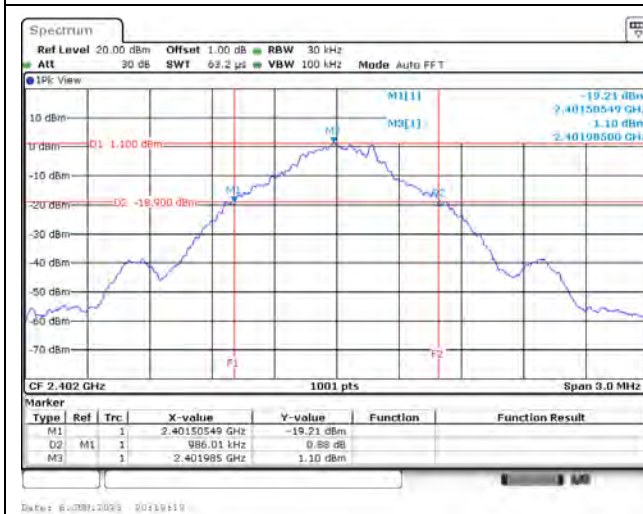
Note:

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.

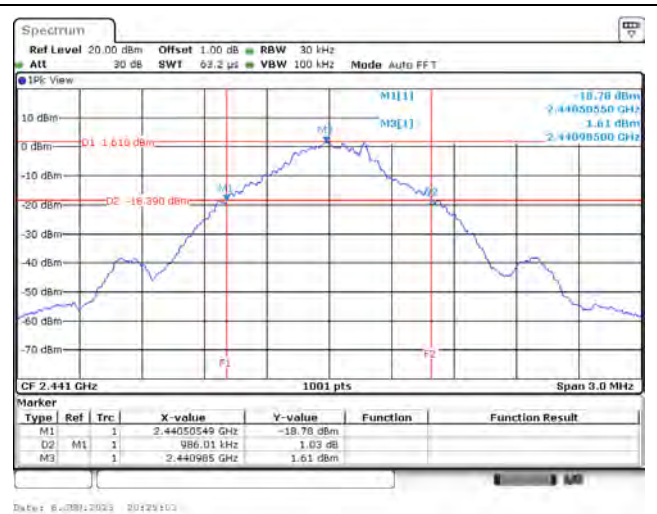
Appendix B. Test Result of 20dB Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
GFSK	2402	0.986	-
	2441	0.986	-
	2480	0.986	-
8-DPSK	2402	1.285	-
	2441	1.285	-
	2480	1.288	-

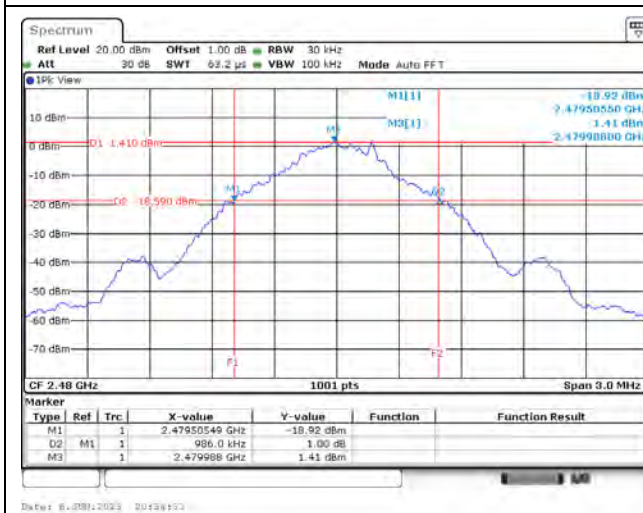
GFSK / 2402 MHz



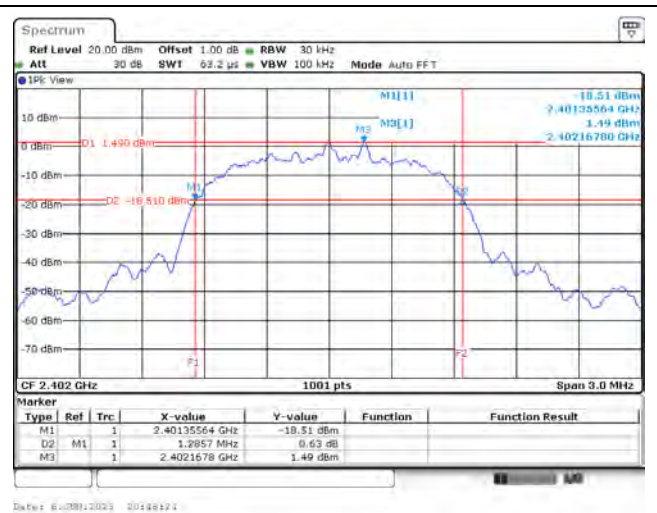
GFSK / 2441 MHz



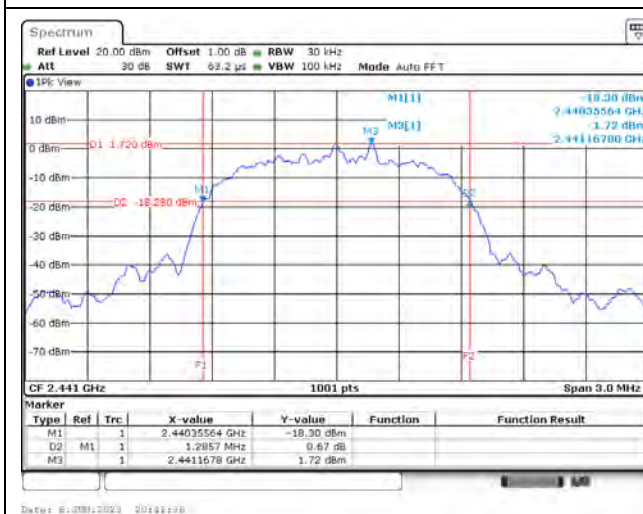
GFSK / 2480 MHz



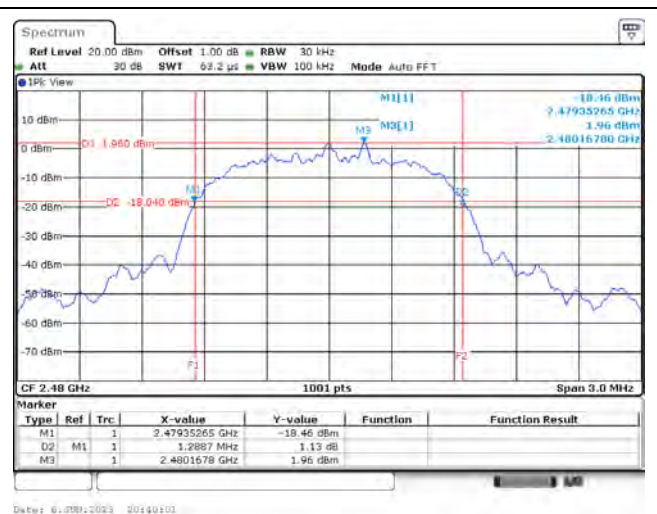
8-DPSK / 2402 MHz



8-DPSK / 2441 MHz



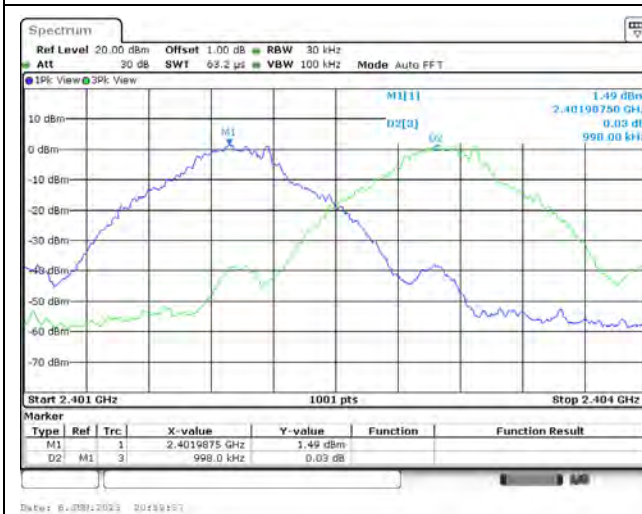
8-DPSK / 2480 MHz



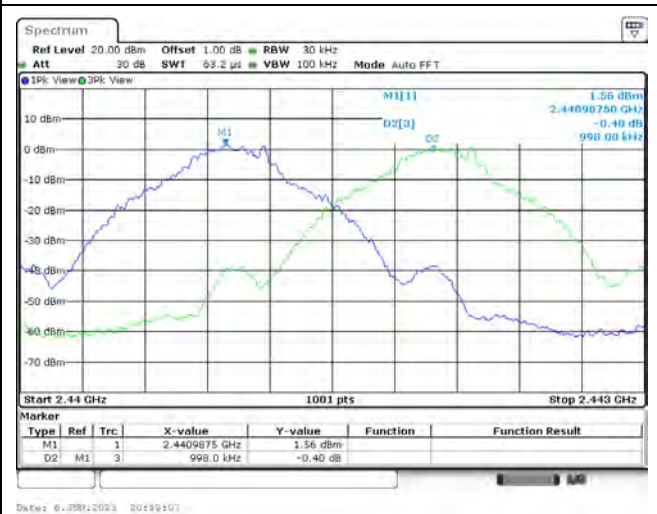
Appendix C. Test Result of Carrier Frequency Separation

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
GFSK	2402	0.998	≥ 0.657	Pass
	2441	0.998	≥ 0.657	Pass
	2480	1.001	≥ 0.657	Pass
8-DPSK	2402	0.998	≥ 0.857	Pass
	2441	1.001	≥ 0.857	Pass
	2480	0.998	≥ 0.859	Pass

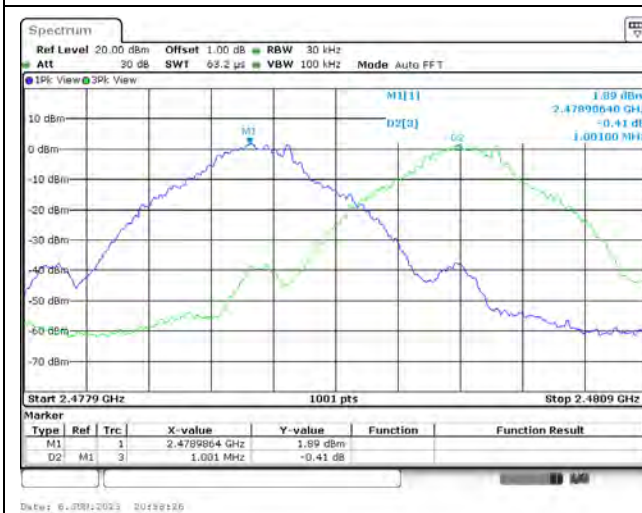
GFSK / 2402 MHz



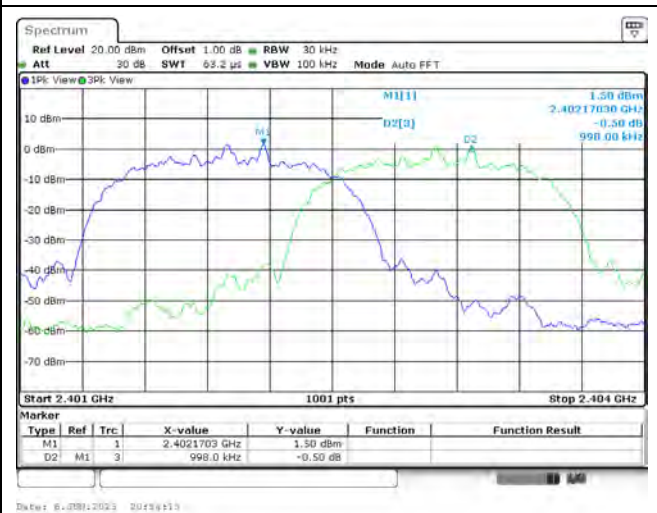
GFSK / 2441 MHz



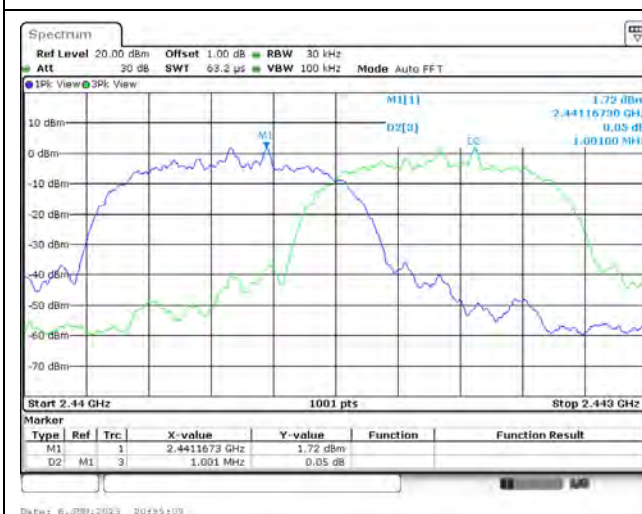
GFSK / 2480 MHz



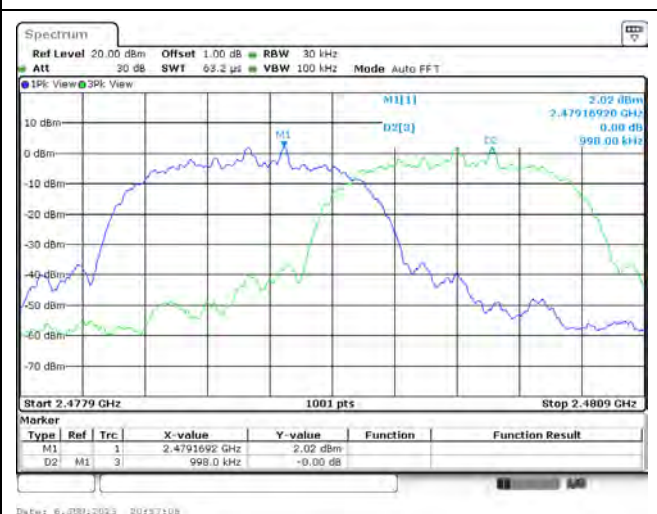
8-DPSK / 2402 MHz



8-DPSK / 2441 MHz



8-DPSK / 2480 MHz

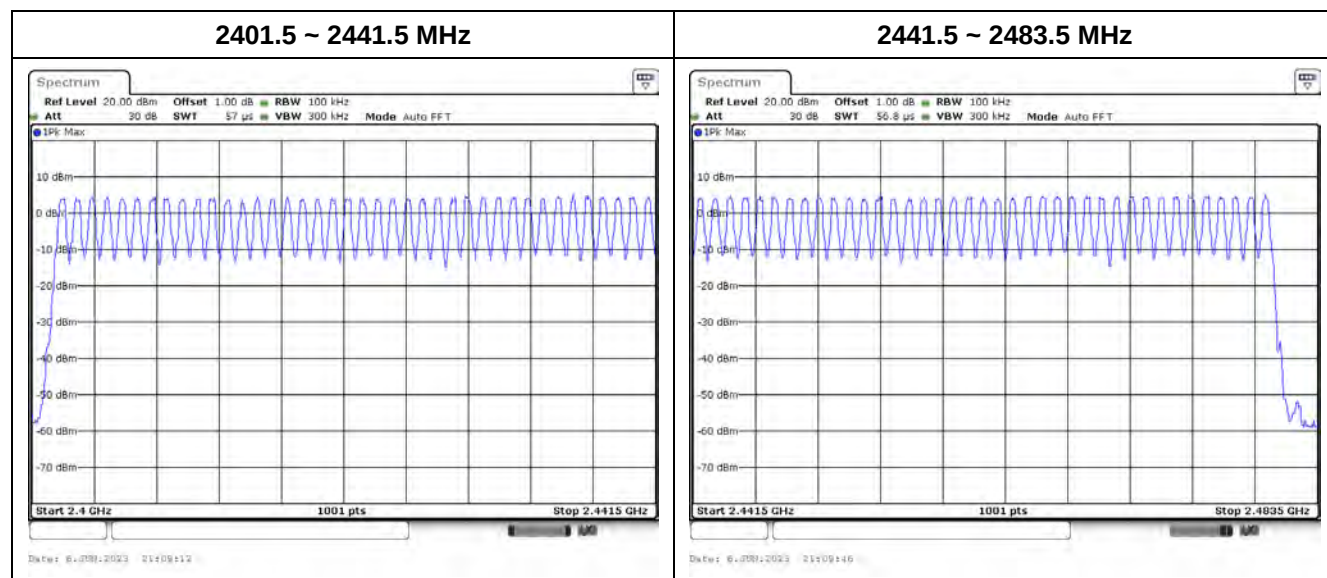


Appendix D. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
GFSK	2402	3.38	≤ 20.97	Pass
	2441	3.51	≤ 20.97	Pass
	2480	3.79	≤ 20.97	Pass
8-DPSK	2402	3.82	≤ 20.97	Pass
	2441	3.62	≤ 20.97	Pass
	2480	4.38	≤ 20.97	Pass

Appendix E. Test Result of Number of Hopping Frequency

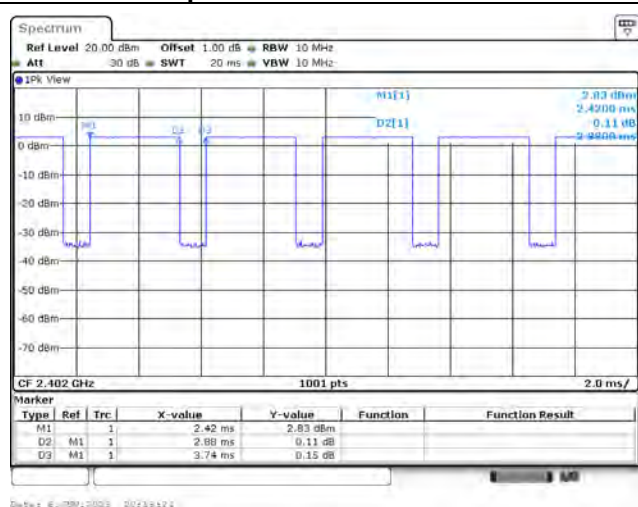
Frequency Range (MHz)	Measure Level (Channels)	Limit (Channels)
2400 ~ 2483.5	79	≥ 75



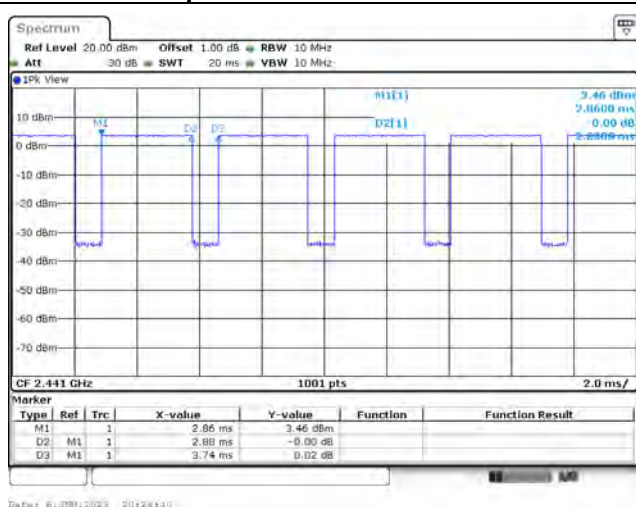
Appendix F. Test Result of Dwell Time

Modulation	Occupancy Time of Frequency Hopping System
GFSK	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.880 ms = 0.002880 sec
	Dwell Time : $0.002880 \times (266.67/79) \times 31.60 = 0.3072$ sec
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.880 ms = 0.002880 sec
	Dwell Time : $0.002880 \times (266.67/79) \times 31.60 = 0.3072$ sec
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.860 ms = 0.002860 sec
	Dwell Time : $0.002860 \times (266.67/79) \times 31.60 = 0.3051$ sec
8-DPSK	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.880 ms = 0.002880 sec
	Dwell Time : $0.002880 \times (266.67/79) \times 31.60 = 0.3081$ sec
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.880 ms = 0.002880 sec
	Dwell Time : $0.002880 \times (266.67/79) \times 31.60 = 0.3072$ sec
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.880 ms = 0.002880 sec
	Dwell Time : $0.002880 \times (266.67/79) \times 31.60 = 0.3072$ sec
Test Result: The Average Occupancy Time of Each Highest, Middle and Lowest Channel Is Less Than 0.4 sec, And Corresponds to The Standard.	

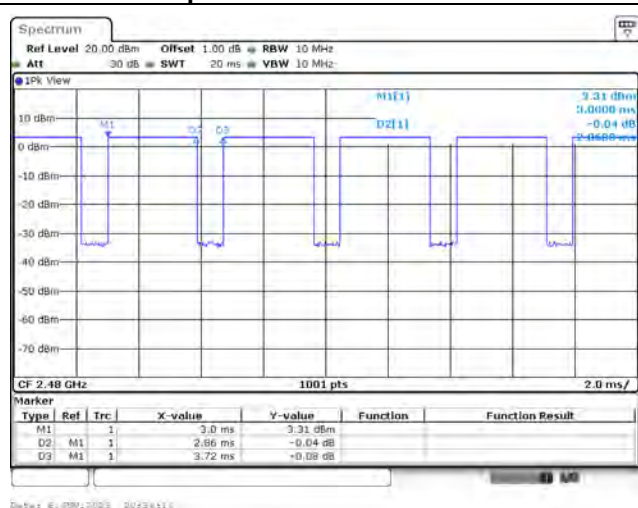
Hop rate / GFSK / 2402 MHz



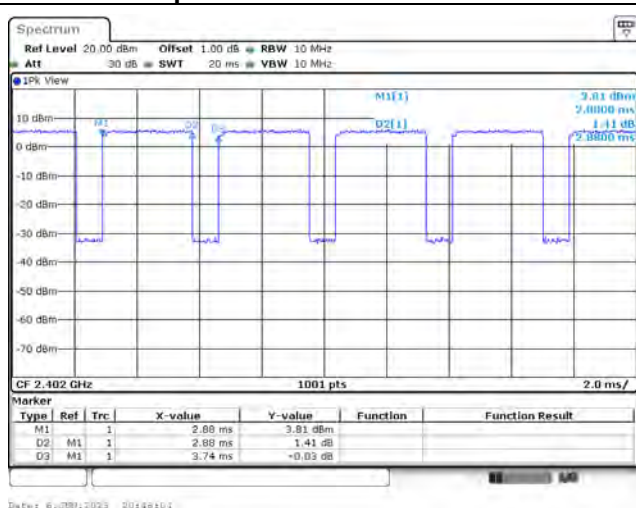
Hop rate / GFSK / 2441 MHz



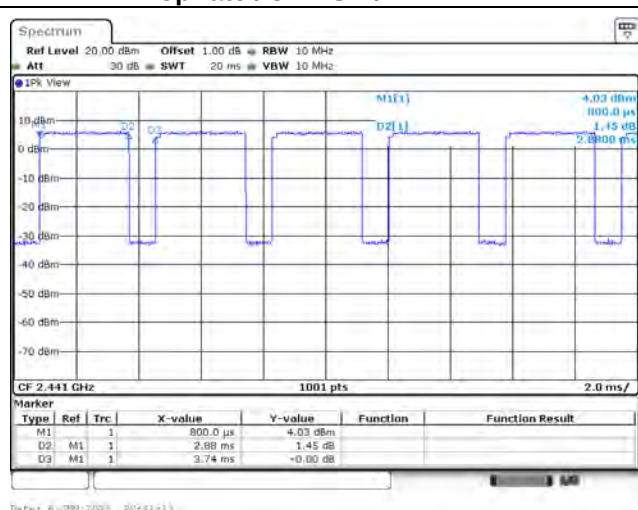
Hop rate / GFSK / 2480 MHz



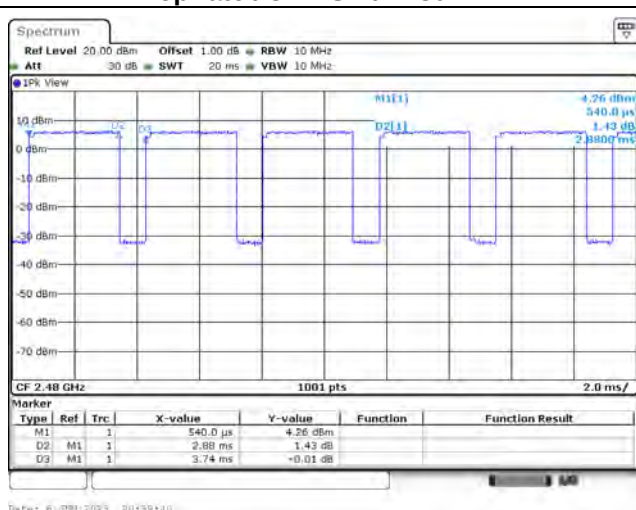
Hop rate / 8-DPSK / 2402 MHz



Hop rate / 8-DPSK / 2441 MHz



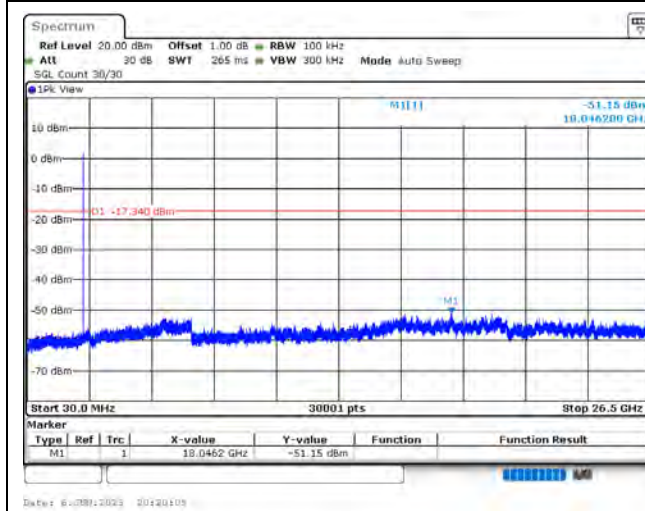
Hop rate / 8-DPSK / 2480 MHz



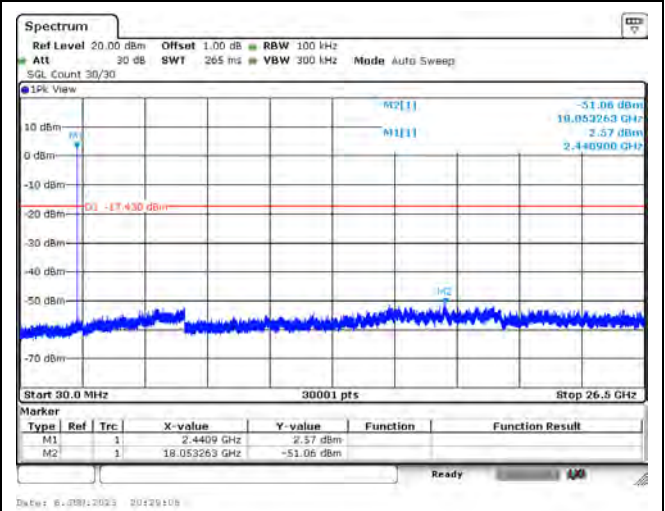
Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Appendix G. Test Result of Antenna Port Conducted Emission

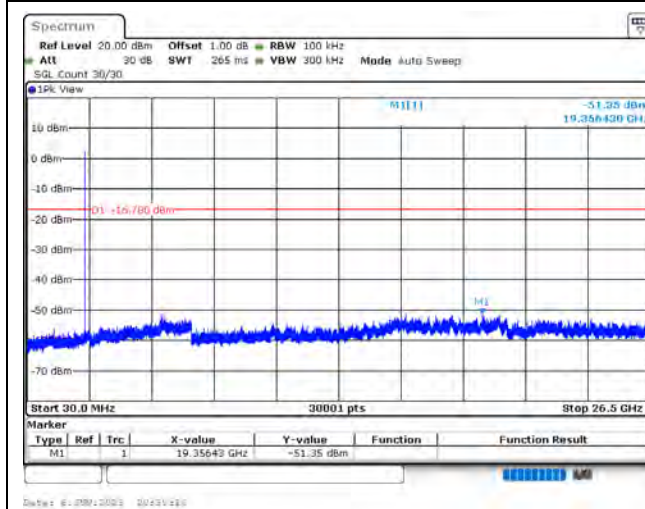
GFSK / 2402 MHz



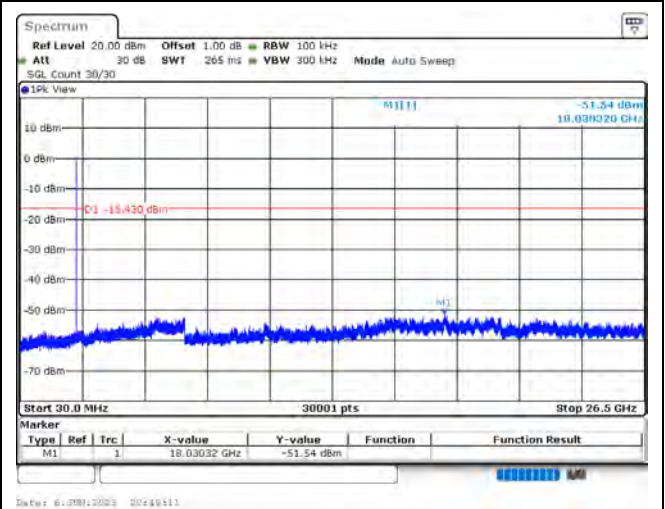
GFSK / 2441 MHz



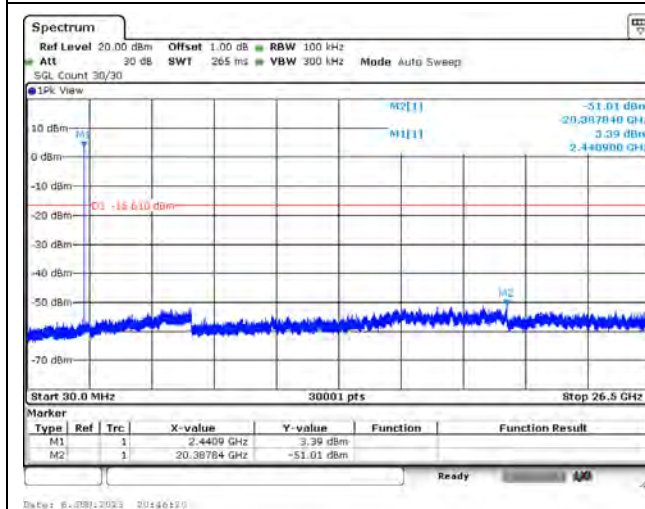
GFSK / 2480 MHz



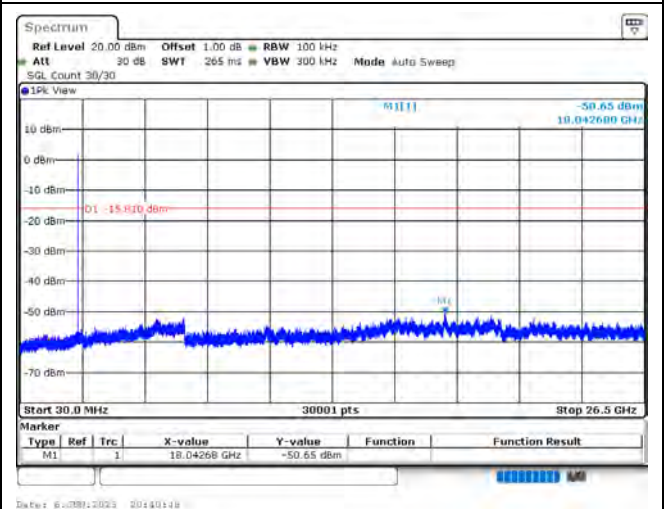
8-DPSK / 2402 MHz



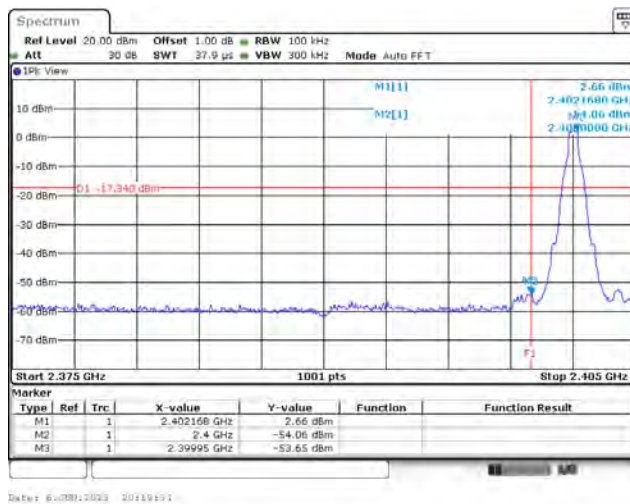
8-DPSK / 2441 MHz



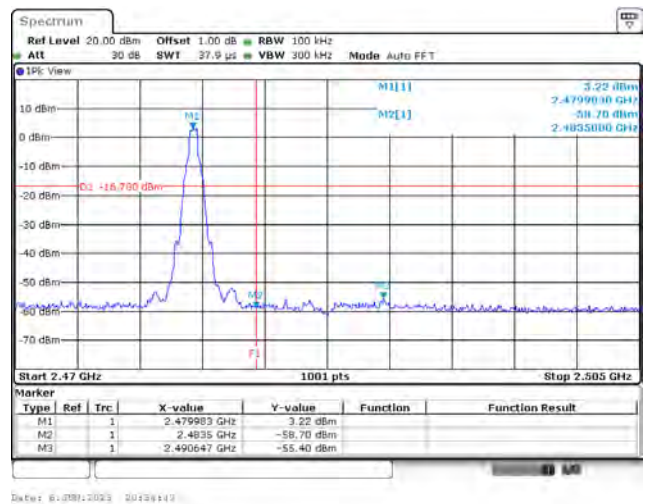
8-DPSK / 2480 MHz



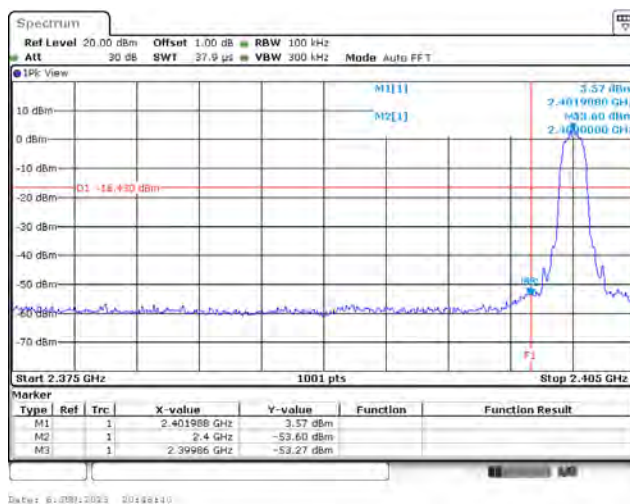
GFSK / 2402 MHz (Band Edge)



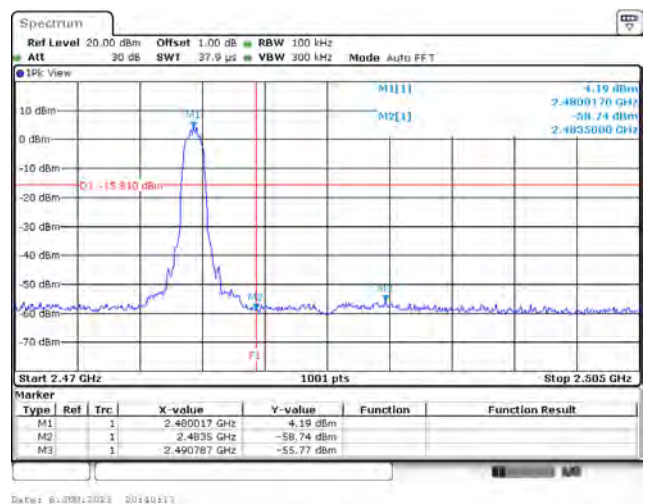
GFSK / 2480 MHz (Band Edge)



8-DPSK / 2402 MHz (Band Edge)



8-DPSK / 2480 MHz (Band Edge)

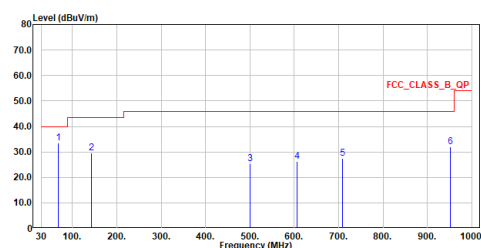


Appendix H. Test Result of Transmitter Radiated Spurious Emission

30 MHz ~ 1 GHz

Mode 1: EUT + Adapter

Site : HC-CB04
Condition : 3m Horizontal
Mode : LF_DPSK_TX_2480MHz(Adapter)
Test by : Scott

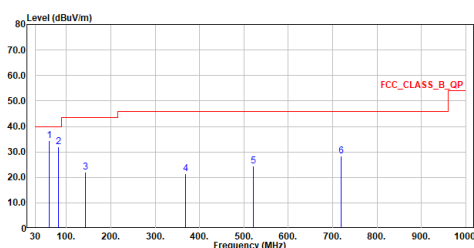


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	67.442	33.39	40.00	-6.61	37.45	-4.06	QP
2	142.714	29.48	43.50	-14.02	32.93	-3.45	QP
3	500.062	25.21	46.00	-20.79	23.01	2.20	QP
4	606.568	26.33	46.00	-19.67	21.58	4.75	QP
5	709.194	27.52	46.00	-18.48	21.38	6.14	QP
6	952.373	31.99	46.00	-14.01	22.68	9.31	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_DPSK_TX_2480MHz(Adapter)
Test by : Scott



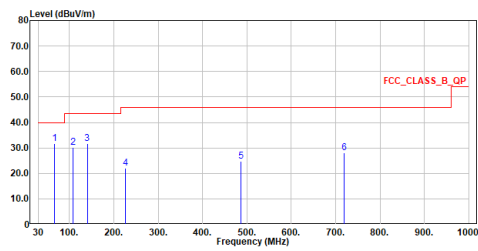
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	60.846	34.49	40.00	-5.51	37.66	-3.17	QP
2	82.380	32.00	40.00	-8.00	39.58	-7.58	QP
3	142.811	21.96	43.50	-21.54	25.39	-3.43	QP
4	368.530	21.52	46.00	-24.48	22.50	-0.98	QP
5	521.402	24.38	46.00	-21.62	21.62	2.76	QP
6	719.282	28.51	46.00	-17.49	22.23	6.28	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 + PoE

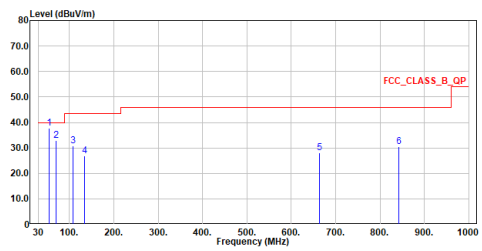
Site :HC-CB04
Condition :3m Horizontal
Mode :LF_DPSK_TX_2480MHz(POE)
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	66.569	31.58	40.00	-8.42	35.90	-4.32	QP
2	107.212	30.22	43.50	-13.28	36.95	-6.73	QP
3	139.998	31.65	43.50	-11.85	35.62	-3.97	QP
4	225.940	22.14	46.00	-23.86	28.56	-6.42	QP
5	486.579	24.86	46.00	-21.14	23.15	1.71	QP
6	719.864	28.10	46.00	-17.90	21.93	6.17	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_DPSK_TX_2480MHz(POE)
Test by :Scott



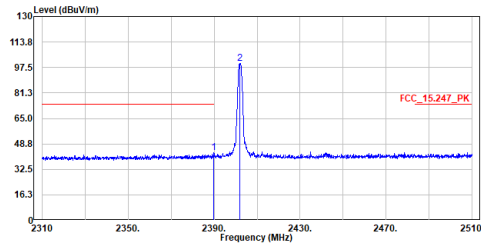
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	53.474	37.74	40.00	-2.26	40.60	-2.86	QP
2	70.061	32.99	40.00	-7.01	37.76	-4.77	QP
3	107.115	30.84	43.50	-12.66	37.57	-6.73	QP
4	134.566	26.95	43.50	-16.55	31.13	-4.18	QP
5	663.216	27.93	46.00	-18.07	22.79	5.14	QP
6	842.181	30.40	46.00	-15.60	22.71	7.69	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

Band Edge and Harmonic

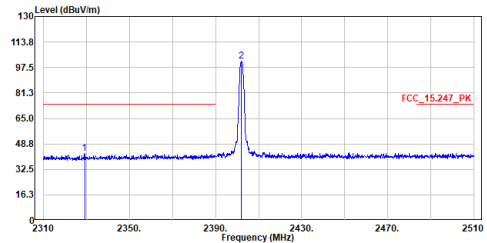
Site :HC-CB04
Condition :3m ,Horizontal
Mode :GFSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.900	43.23	74.00	-30.77	30.91	12.32	Peak
2	2402.100	99.92	68.20	31.72	87.53	12.39	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.

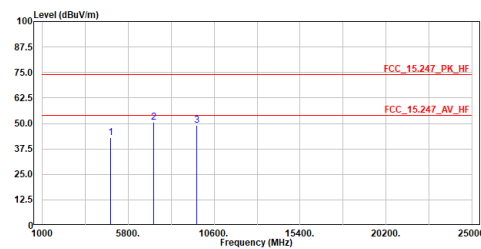
Site :HC-CB04
Condition :3m ,Vertical
Mode :GFSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2329.100	42.45	74.00	-31.55	30.44	12.01	Peak
2	2402.100	101.31	68.20	33.11	88.92	12.39	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.

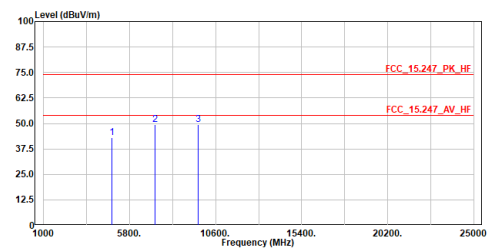
Site :HC-CB04
Condition :3m ,Horizontal
Mode :GFSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4804.000	42.87	74.00	-31.13	58.80	-15.93	Peak
2	7206.000	50.41	74.00	-23.59	60.89	-10.48	Peak
3	9608.000	48.98	74.00	-25.02	55.45	-6.47	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.

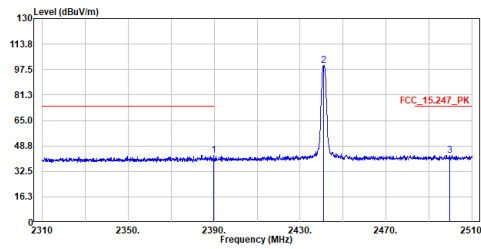
Site :HC-CB04
Condition :3m ,Vertical
Mode :GFSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4804.000	43.17	74.00	-30.83	59.10	-15.93	Peak
2	7206.000	49.28	74.00	-24.72	59.76	-10.48	Peak
3	9608.000	49.36	74.00	-24.64	55.83	-6.47	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.

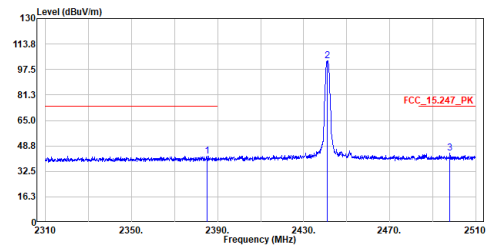
Site :HC-CB04
Condition :3m ,Horizontal
Mode :GFSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.700	42.72	74.00	-31.28	30.40	12.32	Peak
2	2441.100	100.07	68.20	31.87	87.48	12.59	Peak
3	2499.600	42.76	74.00	-31.24	29.86	12.90	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.

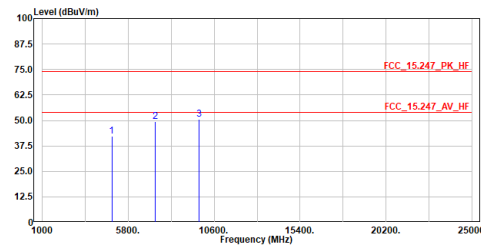
Site :HC-CB04
Condition :3m ,Vertical
Mode :GFSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2385.000	42.24	74.00	-31.76	29.94	12.30	Peak
2	2440.900	103.02	68.20	34.82	90.43	12.59	Peak
3	2498.000	43.99	74.00	-30.01	31.09	12.90	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.

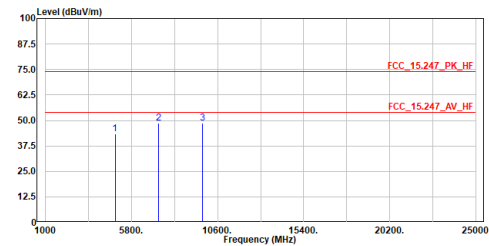
Site :HC-CB04
Condition :3m ,Horizontal
Mode :GFSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4882.000	42.40	74.00	-31.60	58.05	-15.65	Peak
2	7323.000	49.25	74.00	-24.75	59.50	-10.25	Peak
3	9764.000	50.50	74.00	-23.50	56.75	-6.25	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.

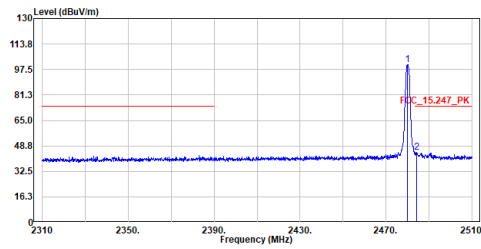
Site :HC-CB04
Condition :3m ,Vertical
Mode :GFSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4882.000	43.37	74.00	-30.63	59.02	-15.65	Peak
2	7323.000	48.77	74.00	-25.23	59.02	-10.25	Peak
3	9764.000	48.84	74.00	-25.16	55.09	-6.25	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.

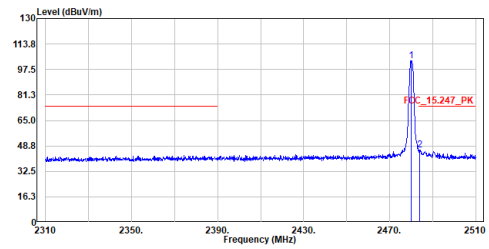
Site :HC-CB04
Condition :3m ,Horizontal
Mode :GFSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2480.100	100.40	68.20	32.20	87.94	12.46	Peak
2	2484.300	44.49	74.00	-29.51	32.02	12.47	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.

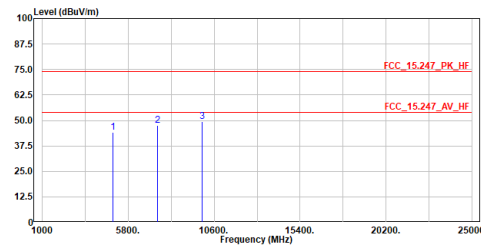
Site :HC-CB04
Condition :3m ,Vertical
Mode :GFSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2480.000	102.99	68.20	34.79	90.53	12.46	Peak
2	2484.000	46.11	74.00	-27.89	33.64	12.47	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.

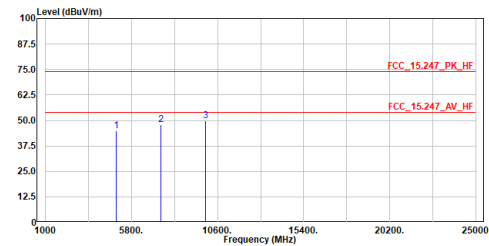
Site :HC-CB04
Condition :3m ,Horizontal
Mode :GFSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4960.000	44.09	74.00	-29.91	59.46	-15.37	Peak
2	7440.000	47.45	74.00	-26.55	57.48	-10.03	Peak
3	9920.000	49.34	74.00	-24.66	55.36	-6.02	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.

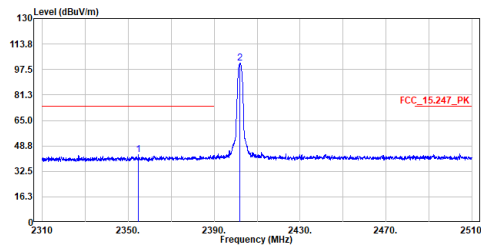
Site :HC-CB04
Condition :3m ,Vertical
Mode :GFSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4960.000	44.79	74.00	-29.21	60.16	-15.37	Peak
2	7440.000	47.82	74.00	-26.18	57.85	-10.03	Peak
3	9920.000	49.67	74.00	-24.33	55.69	-6.02	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.

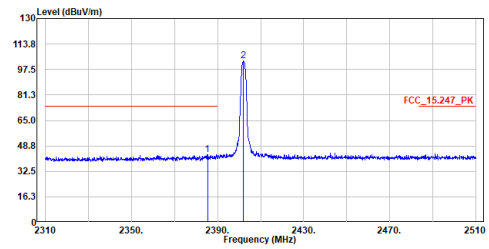
Site :HC-CB04
Condition :3m ,Horizontal
Mode :DPSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2354.800	43.28	74.00	-30.72	31.13	12.15	Peak
2	2402.100	101.41	68.20	33.21	89.02	12.39	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.

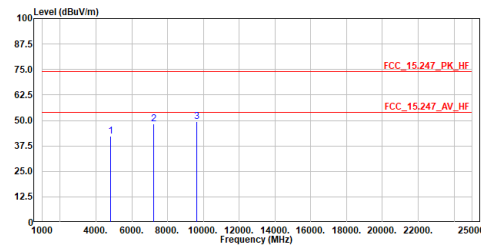
Site :HC-CB04
Condition :3m ,Vertical
Mode :DPSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2385.300	43.25	74.00	-30.75	30.95	12.30	Peak
2	2402.100	102.93	68.20	34.73	90.54	12.39	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.

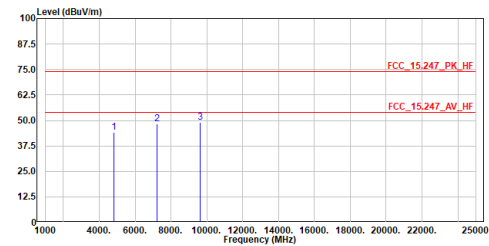
Site :HC-CB04
Condition :3m Horizontal
Mode :DPSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4804.000	42.37	74.00	-31.63	58.30	-15.93	Peak
2	7206.000	48.23	74.00	-25.77	58.71	-10.48	Peak
3	9608.000	49.30	74.00	-24.70	55.77	-6.47	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.

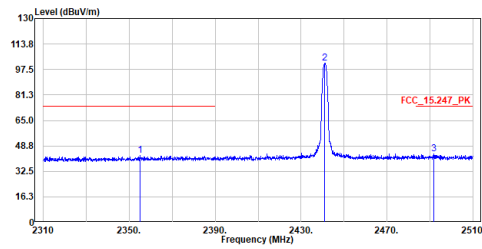
Site :HC-CB04
Condition :3m Vertical
Mode :DPSK_TX_2402MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4804.000	44.22	74.00	-29.78	60.15	-15.93	Peak
2	7206.000	48.45	74.00	-25.55	58.93	-10.48	Peak
3	9608.000	49.15	74.00	-24.85	55.62	-6.47	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.

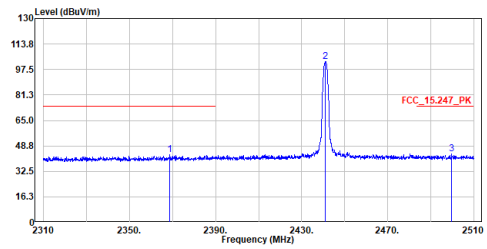
Site :HC-CB04
Condition :3m ,Horizontal
Mode :DPSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2354.900	42.58	74.00	-31.42	30.43	12.15	Peak
2	2441.100	101.70	68.20	33.50	89.11	12.59	Peak
3	2491.800	43.53	74.00	-30.47	30.67	12.86	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.

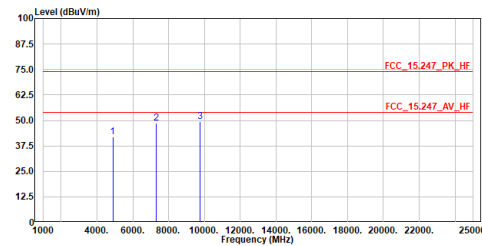
Site :HC-CB04
Condition :3m ,Vertical
Mode :DPSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2368.700	43.07	74.00	-30.93	30.85	12.22	Peak
2	2441.100	102.48	68.20	34.28	89.89	12.59	Peak
3	2499.700	43.45	74.00	-30.55	30.55	12.90	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.

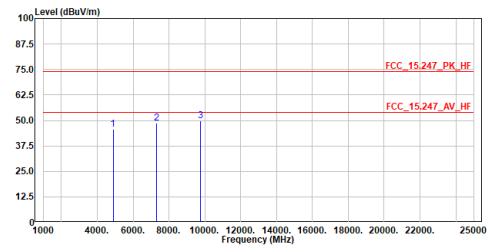
Site :HC-CB04
Condition :3m Horizontal
Mode :DPSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4882.000	41.96	74.00	-32.04	57.61	-15.65	Peak
2	7323.000	48.52	74.00	-25.48	58.77	-10.25	Peak
3	9764.000	49.28	74.00	-24.72	55.53	-6.25	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.

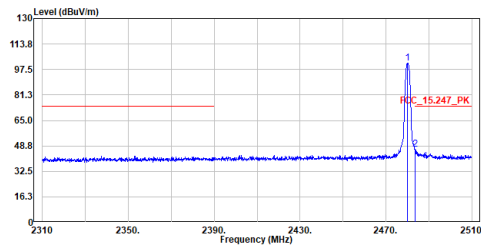
Site :HC-CB04
Condition :3m Vertical
Mode :DPSK_TX_2441MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4882.000	45.54	74.00	-28.46	61.19	-15.65	Peak
2	7323.000	48.72	74.00	-25.28	58.97	-10.25	Peak
3	9764.000	49.65	74.00	-24.35	55.90	-6.25	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.

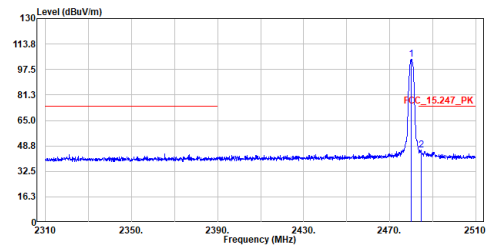
Site :HC-CB04
Condition :3m ,Horizontal
Mode :DPSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2480.100	101.45	68.20	33.25	88.65	12.80	Peak
2	2483.600	46.68	74.00	-27.32	33.87	12.81	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.

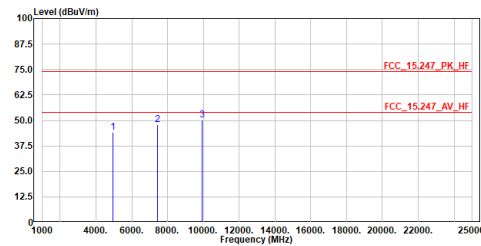
Site :HC-CB04
Condition :3m ,Vertical
Mode :DPSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2480.100	103.85	68.20	35.65	91.05	12.80	Peak
2	2484.600	46.05	74.00	-27.95	33.23	12.82	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.

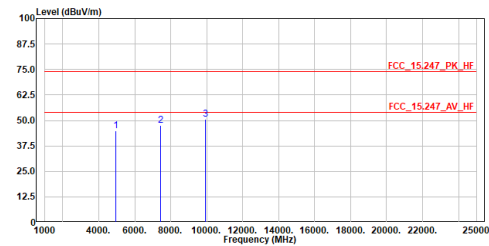
Site :HC-CB04
Condition :3m Horizontal
Mode :DPSK_TX_2480MHz
Test by :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4960.000	44.04	74.00	-29.96	59.41	-15.37	Peak
2	7440.000	47.90	74.00	-26.10	57.93	-10.03	Peak
3	9920.000	50.15	74.00	-23.85	56.17	-6.02	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 :DPSK_TX_2480MHz
Test by :Scott

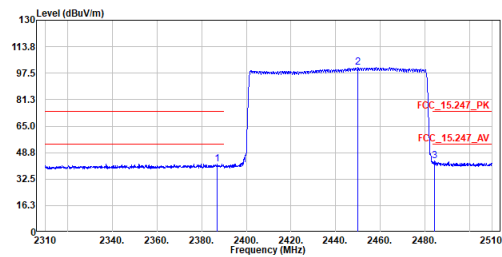


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4960.000	45.02	74.00	-28.98	60.39	-15.37	Peak
2	7440.000	47.52	74.00	-26.48	57.55	-10.03	Peak
3	9920.000	50.61	74.00	-23.39	56.63	-6.02	Peak

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.

Band Edge – Hopping

Site :HC-CB04
Condition :3m Horizontal
Mode :DPSK_TX_Hopping
Test by :Ling

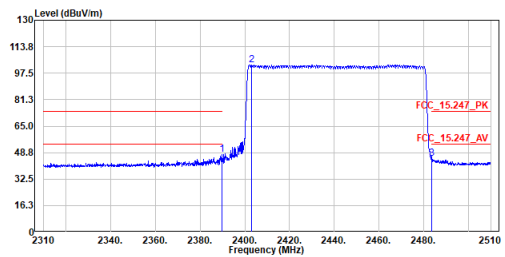


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.800	41.75	74.00	-32.25	29.36	12.39	Peak
2	2450.000	100.87	74.00	26.87	88.14	12.73	Peak
3	2484.300	43.50	74.00	-30.50	30.58	12.92	Peak

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 :DPSK_TX_Hopping
Test by :Ling

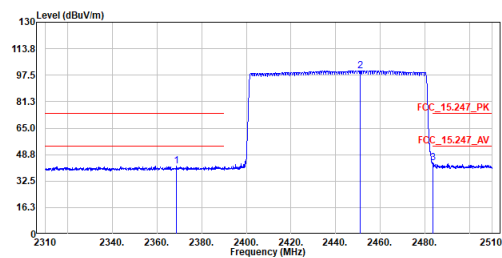


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.800	47.53	74.00	-26.47	35.13	12.40	Peak
2	2403.000	102.62	74.00	28.62	90.14	12.48	Peak
3	2483.700	45.00	74.00	-29.00	32.08	12.92	Peak

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
Mode :GFSK_TX_Hopping
Test by :Ling

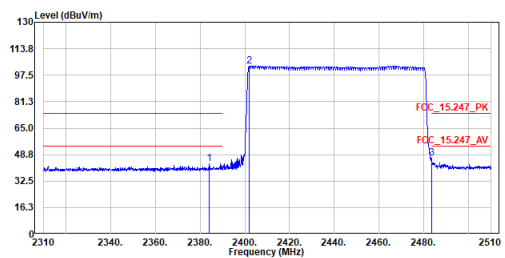


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2368.700	41.69	74.00	-32.31	29.39	12.30	Peak
2	2451.100	100.21	74.00	26.21	87.47	12.74	Peak
3	2483.500	43.56	74.00	-30.44	30.65	12.91	Peak

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 :GFSK_TX_Hopping
Test by :Ling



No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2384.100	43.01	74.00	-30.99	30.63	12.38	Peak
2	2402.100	103.22	74.00	29.22	90.75	12.47	Peak
3	2483.500	46.39	74.00	-27.61	33.48	12.91	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.