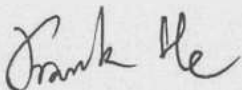
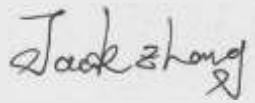


Test report No:
2090075R-RF-US-P06V01

FCC TEST REPORT & ISED TEST REPORT

Product Name	Barcode Scanner
Trademark	Honeywell
Model and /or type reference	8690i
FCC ID	HD5-8690A
IC	1693B-8690A
Applicant's name / address	HONEYWELL INTERNATIONAL INC Honeywell Safety and Productivity Solutions 9680 OLD BAILES RD FORT MILL SC 29707-7539,USA
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10: 2013 KD558074 D01 15.247 Meas Guidance v05r02 RSS-Gen Issue 5 / RSS-247 Issue 2
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Kitty Li/Project Assistant 
Reviewed by (name / position & signature)	Frank He/ Technical Supervisor 
Approved by (name / position & signature)	Jack Zhang/ Supervisor 
Date of issue	2020-10-13
Report template No	Template_FCC 15.247-RF-V1.0

INDEX

	page
General conditions	5
Environmental conditions	5
Possible test case verdicts	6
Abbreviations.....	6
Document History.....	7
Remarks and Comments	7
Used Equipment.....	8
Uncertainty	10
1 General Information	11
1.1 General Description of the Item(s).....	11
1.2 Antenna Information	12
1.3 Channel List.....	13
2 Description of Test Setup.....	14
2.1 Operating mode(s) used for tests	14
2.2 Auxiliary equipment / Test software for the EUT	14
2.3 Test Configuration / Block diagram used for tests.....	15
2.4 Testing process	16
3 Verdict summary section.....	17
3.1 Standards	17
3.2 Deviation(s) from the Standard(s) / Test Specification(s).....	17
3.3 Overview of results	18
3.4 Test Facility.....	20
4 Test Results	21
4.1 Conducted Emission.....	21
4.1.1 Limit	21
4.1.2 Test Setup	21
4.1.3 Test Procedure	21
4.1.4 Test Data	22
4.2 Emissions in restricted frequency bands	24
4.2.1 Limit	24
4.2.2 Test Setup	26
4.2.3 Test Procedure	27
4.2.4 Test Data	28
4.3 20dB Bandwidth.....	50

4.3.1	Limit	50
4.3.2	Test Setup	50
4.3.3	Test Procedure	50
4.3.4	Test Data	51
4.4	Carrier Frequency Separation	56
4.4.1	Limit	56
4.4.2	Test Setup	56
4.4.3	Test Procedure	56
4.4.4	Test Data	57
4.5	Number of hopping Frequencies	62
4.5.1	Limit	62
4.5.2	Test Setup	62
4.5.3	Test Procedure	62
4.5.4	Test Data	63
4.6	Time of Occupancy(Dwell Time)	64
4.6.1	Limit	64
4.6.2	Test Setup	64
4.6.3	Test Procedure	64
4.6.4	Test Data	65
4.7	Peak Output Power.....	68
4.7.1	Limit	68
4.7.2	Test Setup	68
4.7.3	Test Procedure	69
4.7.4	Test Data	70
4.8	Emissions in non-restricted frequency band	71
4.8.1	Limit	71
4.8.2	Test Setup	71
4.8.3	Test Procedure	71
4.8.4	Test Data	72
4.9	Duty cycle	73
4.9.1	Limit	73
4.9.2	Test Setup	73
4.9.3	Test Procedure	73
4.9.4	Test Data	74
4.10	Radiated Emission Band Edge	75
4.10.1	Limit	75
4.10.2	Test Setup	75



4.10.3	Test Procedure	75
4.10.4	Test Data	76
4.11	Antenna Requirement.....	100
4.11.1	Limit:	100
4.11.2	Antenna Connector Construction:	100
5	Test setup photo and EUT Photo	101

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

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Sept. 02, 2020
Date (start test)	Sept. 09, 2020
Date (finish test)	Sept. 28, 2020

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2090075R-RF-US-P06V01	V1.0	Initial issue of report.	2020-10-13

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247, RSS-Gen Issue 5, RSS-247 Issue 2.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Antenna Informaion;
 - Chapter 1.3 Channel List.

USED EQUIPMENT

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100906	2020.04.20	2021.04.19
Two-Line V-Network	R&S	ENV216	101190	2019.12.28	2020.12.27
Two-Line V-Network	R&S	ENV216	101044	2019.12.28	2020.12.27
Current Probe	R&S	EZ-17	100678	2020.03.12	2021.04.11
50ohm Termination	SHX	TF2	07081402	2020.09.23	2021.09.22
50ohm Termination	SHX	TF2	07081403	2020.09.23	2021.09.22
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2020.08.13	2021.08.12
Coaxial Cable	Suhner	RG 223	TR1-C1	2020.08.13	2021.08.12
Coaxial Cable	Suhner	RG 223	TR1-C2	2020.08.13	2021.08.12
Dekra test software	Dekra	-	-	-	-

Emissions in non-restricted frequency bands/ Occupied Bandwidth/ Fundamental emission output power Power Spectral Density / TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2020.08.13	2021.08.12
Dekra test software	Dekra	-	-	-	-

Radiated Emission(30MHz-1GHz) / AC3

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2020.03.03	2021.03.02
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2020.08.19	2021.08.18
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2020.08.13	2021.08.12
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2020.04.05	2021.04.04
Dekra test software	Dekra	-	-	-	-

Radiated Emission / AC5(1GHz-40GHz)(Chamber details)

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2020.05.08	2021.05.07
Preamplifier	Miteq	NSP1800-25	1364185	2020.05.06	2021.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2020.05.06	2021.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2020.01.22	2021.01.21
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2020.08.13	2021.08.12
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2020.04.05	2021.04.04
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2020.04.05	2021.04.04
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2020.04.05	2021.04.04
Dekra test software	Dekra	-	-	-	-

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test item	Uncertainty
Conducted Emission	± 2.02 dB
Emissions in restricted frequency bands	above 1G : ± 3.9 dB below 1G is : ± 3.8 dB
20dB Bandwidth	± 1 kHz
Carrier Frequency Separation	± 1 kHz
Number of Hopping Frequencies	± 1 kHz
Time of Occupancy (Dwell Time)	± 0.1 us
Peak Output Power	± 1.0 dB
Emissions in non-restricted frequency bands	± 1.0 dB
Radiated Emission Band Edge	above 1G : ± 3.9 dB below 1G : ± 3.8 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name	Barcode Scanner
Model No.	8690i
Trademark	Honeywell
FCC ID	HD5-8690A
IC	1693B-8690A
Manufacturer	1.HONEYWELL INTERNATIONAL INC Honeywell Safety and Productivity Solutions 2.Metro(Suzhou)Technologies Co.,Ltd
Manufacturer Address.....	1. 9680 OLD BAILES RD FORT MILL SC 29707-7539,USA 2. No.221 Xinghai street China-Singapore Suzhou Industrial Park

Wireless specification.....	Bluetooth					
Bluetooth Specification.....	V3.0					
Operating frequency range(s)	2400~2483.5MHz					
Type of Modulation.....	GFSK					
PHYS	☒	GFSK	☒	Pi/4 DQPSK	☒	8DPSK
Data Rate	☒	1 Mbit/s	☒	2 Mbit/s	☒	3 Mbit/s
Number of channel.....	79					

Rated power supply	Voltage and Frequency					
	☐	AC: 220 – 240 V, 50 / 60 Hz				
	☐	AC: 100 – 240 V, 50 / 60 Hz				
	☐	DC: 9 - 12 V				
	☒	Battery: 3.7 V				
Mounting position	☐	Table top equipment				
	☐	Wall/Ceiling mounted equipment				
	☐	Floor standing equipment				
	☒	Hand-held equipment				
	☒	Other: Wearable equipment				

1.2 Antenna Information

Antenna model / type number	N/A		
Antenna serial number	N/A		
Antenna Delivery	☒	1TX + 1RX	
	☐	2TX + 2RX	
Antenna technology	☒	SISO	
	☐	MIMO	☐ CDD
			☐ Beam-forming
Antenna Type	☐	External	☐ Dipole
			☐ Sectorized
	☒	Internal	☐ PIFA
			☒ PCB
			☐ Metal Monopole Antenna
			☐ Ceramic chip
			☐ Others.....
Antenna Gain	0.8 dBi		

1.3 Channel List

Bluetooth Working Frequency of Each Channel: (For BR/EDR)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz	03	2405 MHz
04	2406 MHz	05	2407 MHz	06	2408 MHz	07	2409 MHz
08	2410 MHz	09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	N/A	N/A

Note: The General Description of the Item , antenna information and Channel List for the EUT in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

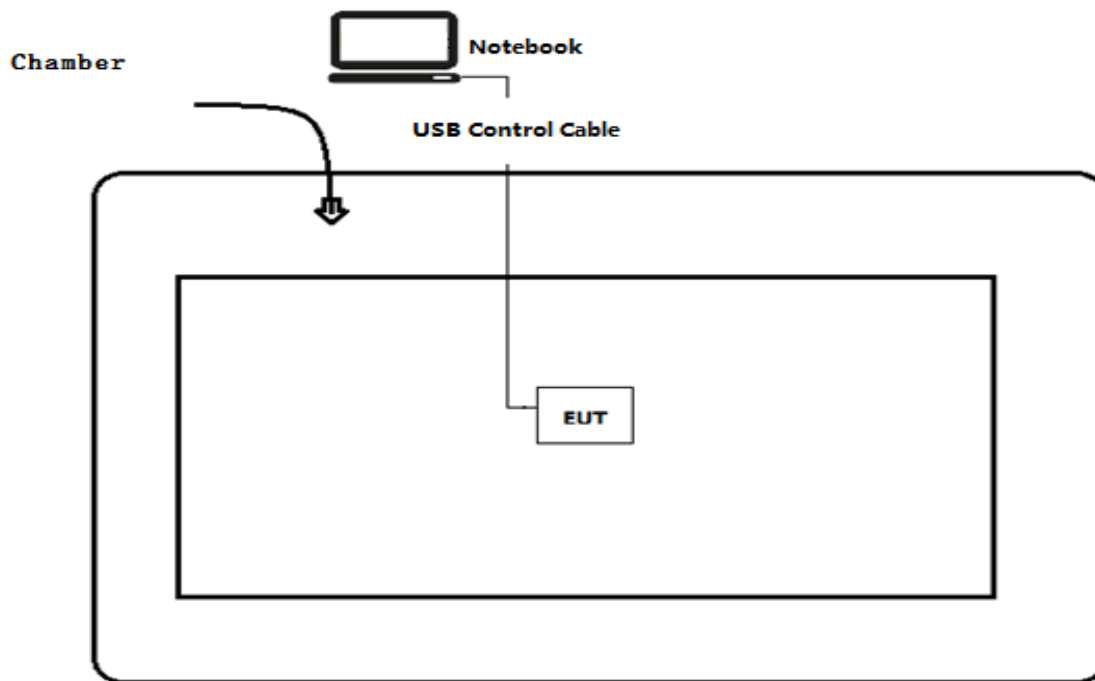
Test Mode For Bluetooth	Mode 1: Transmitter-1Mbps(GFSK_DH5)
	Mode 2: Transmitter-2Mbps(Pi/4 DQPSK_DH5)
	Mode 3: Transmitter-3Mbps(8DPSK_DH5)
	Mode 4: Transmitter-1Mbps(GFSK_DH5)-Hopping
	Mode 5: Transmitter-2Mbps(Pi/4 DQPSK_DH5)-Hopping
	Mode 6: Transmitter-3Mbps(8DPSK_DH5)-Hopping
	Mode 7: Simultaneous transmission.

2.2 Auxiliary equipment / Test software for the EUT

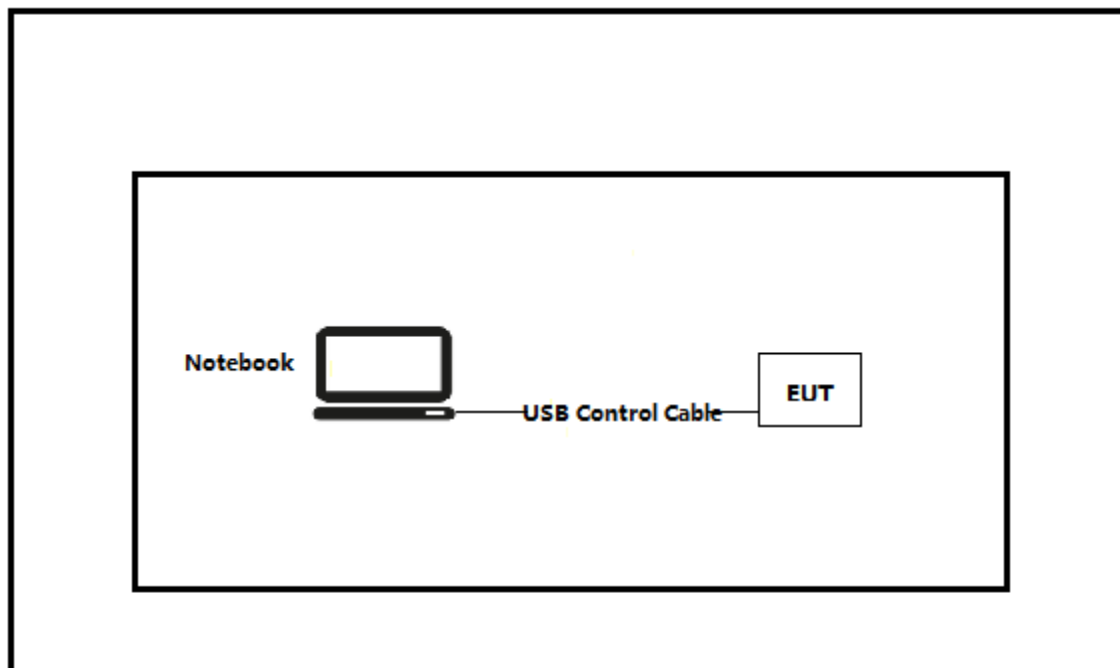
Auxiliary equipment	Type / Version	Manufacturer	Supplied by
Notebook	Think pad x220	Lenovo	Adapter
software	Type / Version	Manufacturer	Supplied by
Putty	0.71	N/A	N/A

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Radiated Test



Test setup Diagram- Conducted test



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Execute the Putty on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2019	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
RSS-Gen Issue 5 Amendment 1	2019	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 2	2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	Yes	No
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	Yes	No
20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(1)	Yes	No
Carrier Frequency Separation	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(1)	Yes	No
Number of Hopping Frequencies	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(1)(iii)	Yes	No
Time of Occupancy (Dwell Time)	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(1)(iii)	Yes	No
Peak Output Power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(1)	Yes	No
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.215(c), 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	Yes	No
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	Yes	No

For ISED

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	RSS-Gen Issue 5 Section 8.8	Yes	No
Radiated Emission	RSS-Gen Issue 5 Section 8.9	Yes	No
20dB Bandwidth	RSS-247 Issue 2 Section 5.1	Yes	No
Carrier Frequency Separation	RSS-247 Issue 2 Section 5.1	Yes	No
Number of Hopping Frequencies	RSS-247 Issue 2 Section 5.1	Yes	No
Time of Occupancy (Dwell Time)	RSS-247 Issue 2 Section 5.1	Yes	No
Peak Output Power	RSS-247 Issue 2 Section 5.4	Yes	No
Emissions in non-restricted frequency bands	RSS-247 Issue 2 Section 5.5	Yes	No
Radiated Emission Band Edge	RSS-Gen Issue 5 Section 8.10	Yes	No
Antenna Requirement	RSS-Gen Issue 5 Section 8.3	Yes	No

3.4 Test Facility

USA	:	FCC Designation Number: CN1199
CA	:	ISED CAB identifier: CN0040

4 TEST RESULTS

4.1 Conducted Emission

VERDICT: N/A

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

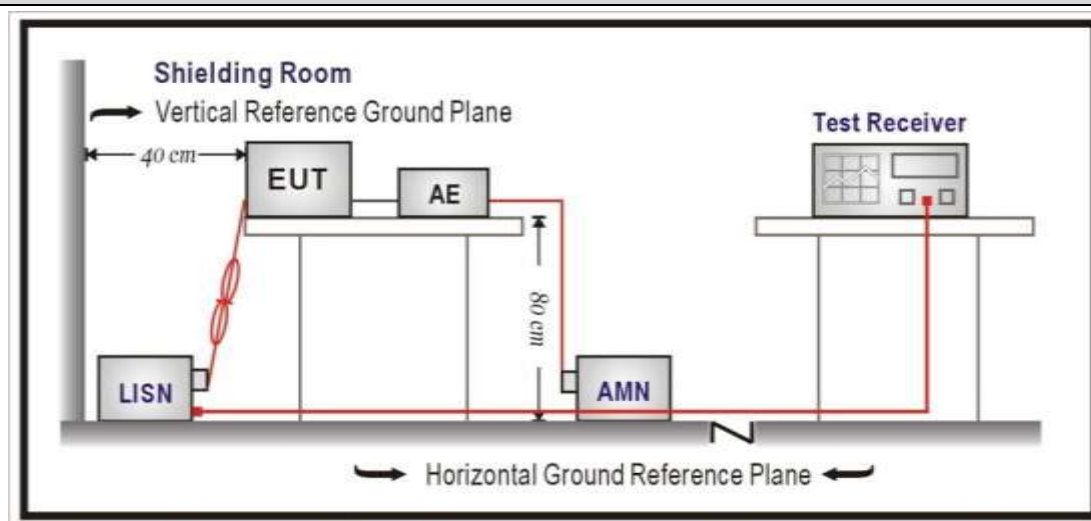
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.1.2 Test Setup

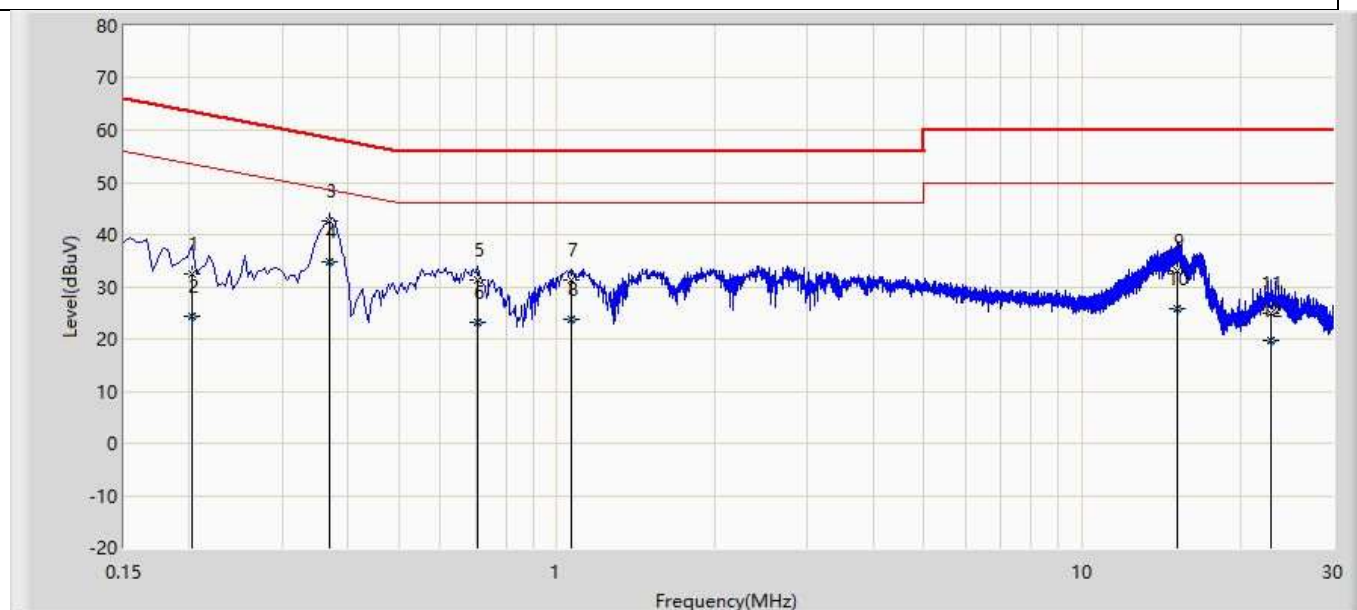


4.1.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

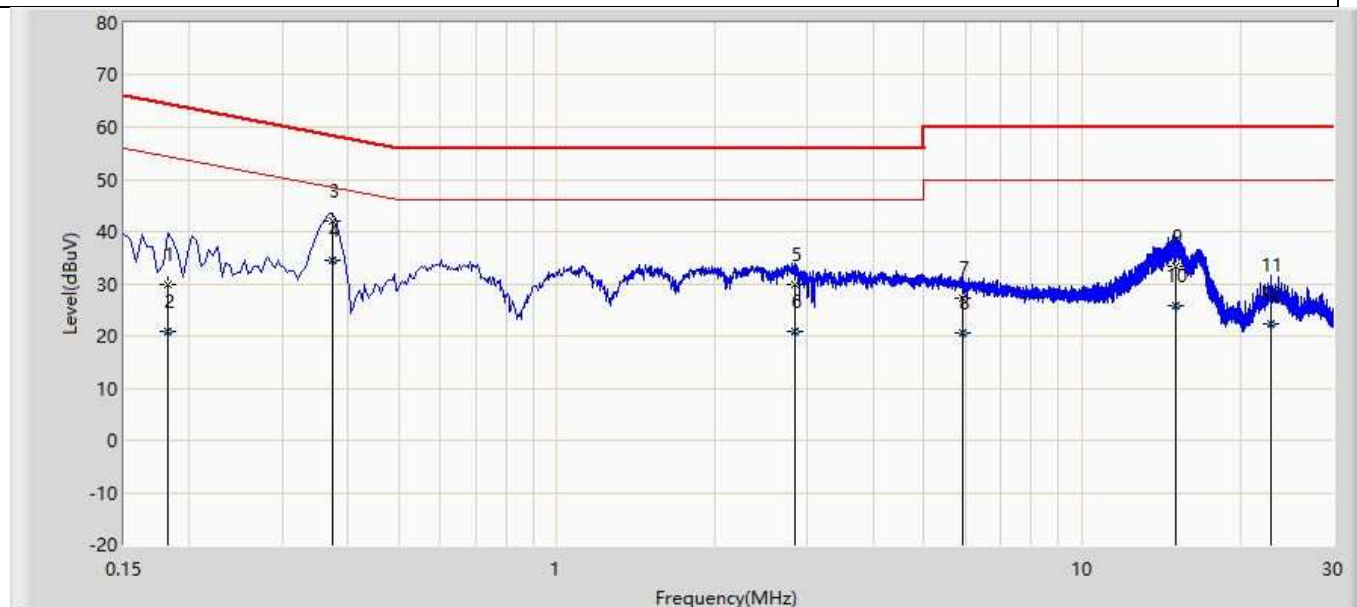
4.1.4 Test Data

Profile: 2090075R	Page No.: 9
Engineer: Pawn	
Site: TR1	Time: 2020/09/27 - 20:54
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: 8690i	Power: AC 120V/60Hz
Note:	



N o	Mar k	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.202	32.436	22.786	-31.092	63.528	9.650	QP
2		0.202	24.415	14.765	-29.113	53.528	9.650	AV
3		0.370	42.511	32.854	-15.990	58.501	9.657	QP
4	*	0.370	34.815	25.158	-13.686	48.501	9.657	AV
5		0.706	31.268	21.599	-24.732	56.000	9.669	QP
6		0.706	23.271	13.603	-22.729	46.000	9.669	AV
7		1.062	31.335	21.645	-24.665	56.000	9.690	QP
8		1.062	23.833	14.143	-22.167	46.000	9.690	AV
9		15.170	32.950	22.831	-27.050	60.000	10.120	QP
10		15.170	25.875	15.755	-24.125	50.000	10.120	AV
11		22.926	24.987	14.614	-35.013	60.000	10.374	QP
12		22.926	19.802	9.428	-30.198	50.000	10.374	AV

Profile: 2090075R	Page No.: 10
Engineer: Pawn	
Site: TR1	Time: 2020/09/27 - 21:00
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: 8690i	Power: AC 120V/60Hz
Note:	



N o	Mar k	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.182	29.946	20.274	-34.447	64.394	9.673	QP
2		0.182	20.988	11.315	-33.406	54.394	9.673	AV
3		0.374	41.931	32.250	-16.481	58.412	9.681	QP
4	*	0.374	34.435	24.754	-13.977	48.412	9.681	AV
5		2.834	29.928	20.168	-26.072	56.000	9.760	QP
6		2.834	20.955	11.195	-25.045	46.000	9.760	AV
7		5.902	27.350	17.493	-32.650	60.000	9.857	QP
8		5.902	20.683	10.826	-29.317	50.000	9.857	AV
9		15.074	33.364	23.235	-26.636	60.000	10.128	QP
10		15.074	25.770	15.642	-24.230	50.000	10.128	AV
11		22.906	27.762	17.377	-32.238	60.000	10.385	QP
12		22.906	22.398	12.012	-27.602	50.000	10.385	AV

4.2 Emissions in restricted frequency bands**VERDICT: PASS****4.2.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.207	
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			
Restricted Bands of operation for ISSED			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.81425 - 8.81475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit

Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

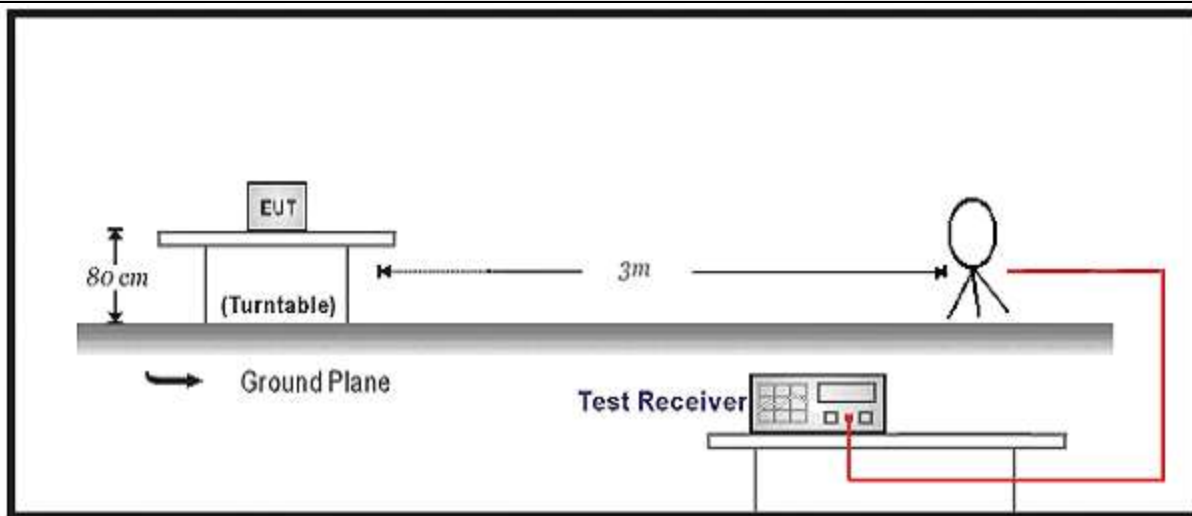
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment.

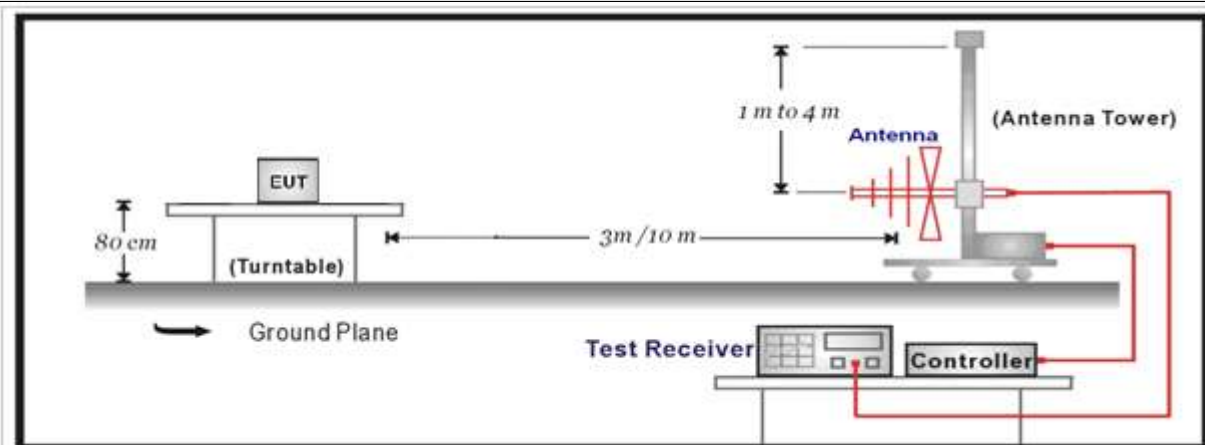
Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.2.2 Test Setup

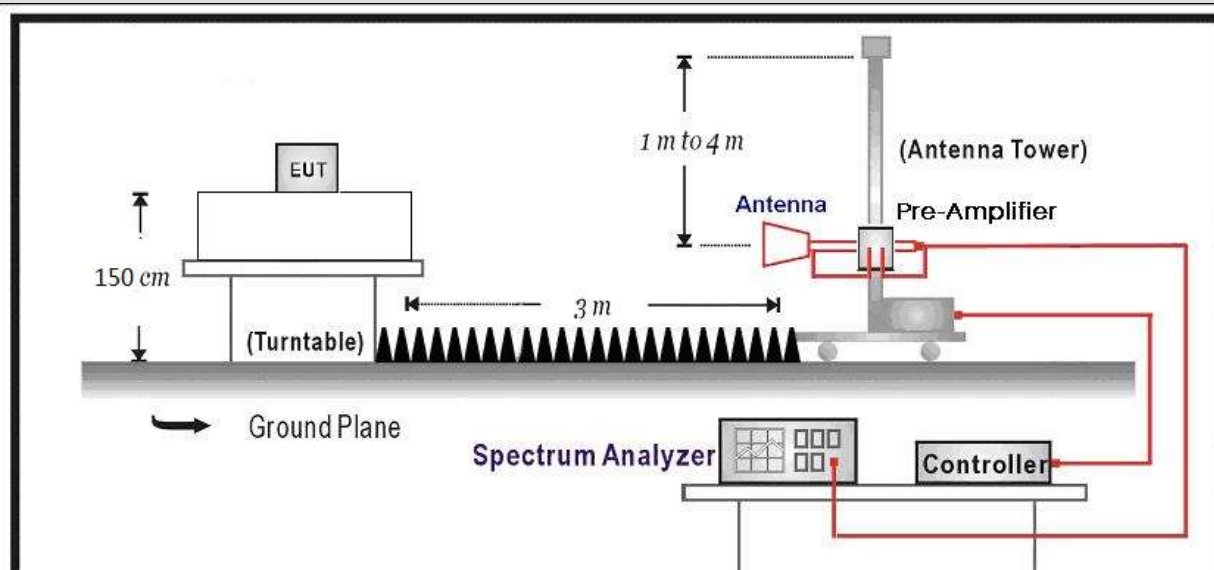
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:

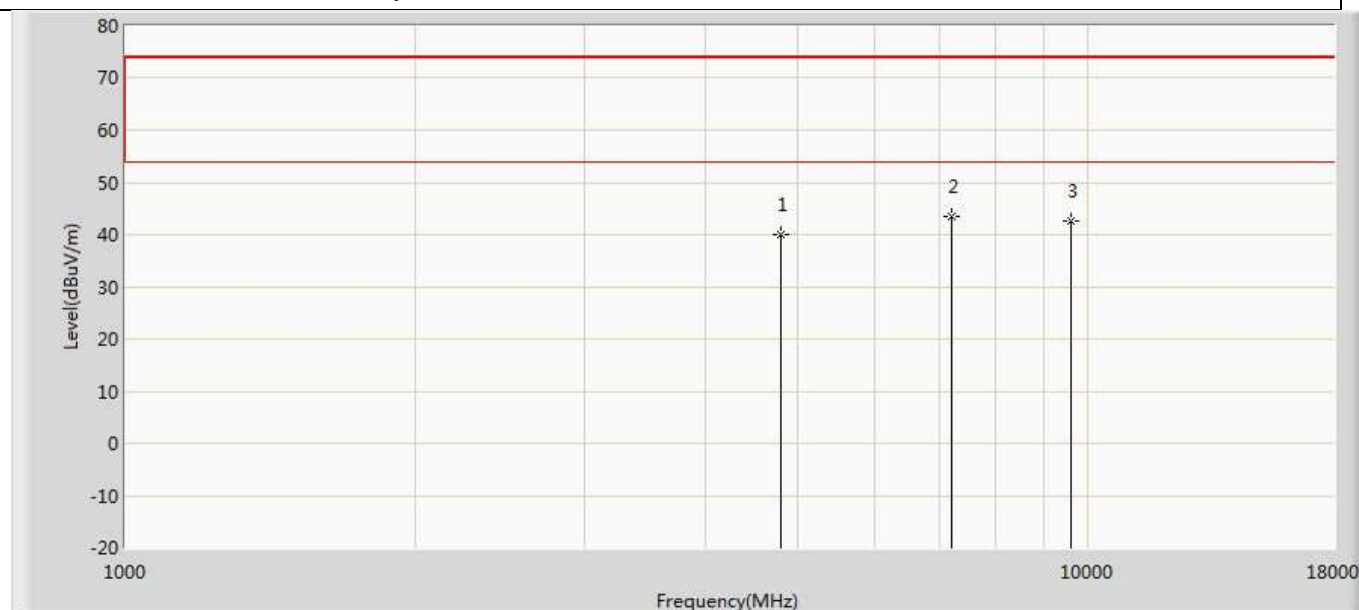


4.2.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

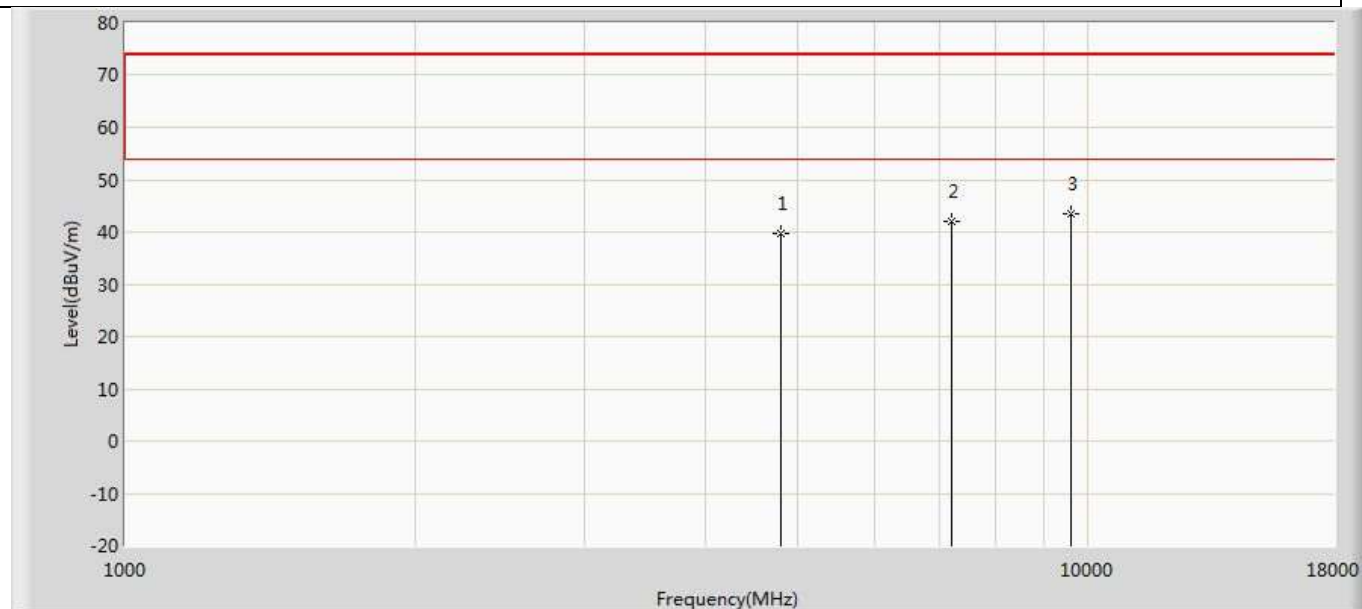
4.2.4 Test Data

Profile: 2090075R	Page No.: 25
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2402MHz by DH5	



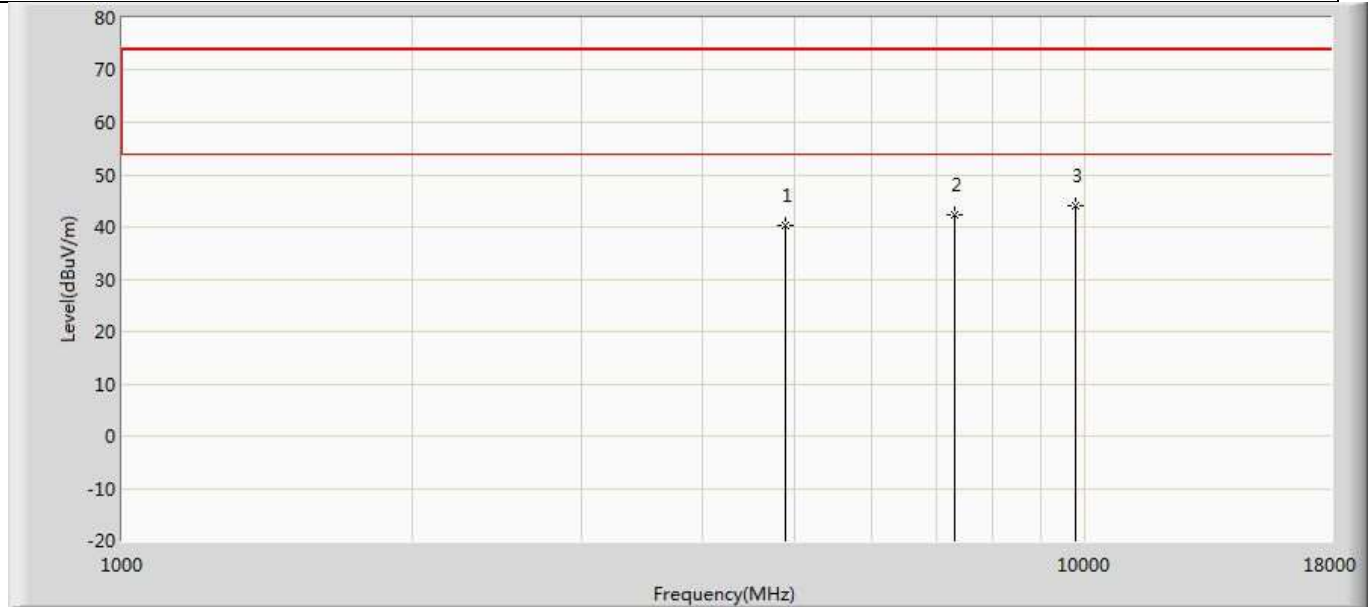
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	39.970	36.309	-34.030	74.000	3.662	PK
2	*	7206.000	43.471	36.808	-30.529	74.000	6.663	PK
3		9608.000	42.534	34.398	-31.466	74.000	8.137	PK

Profile: 2090075R	Page No.: 26
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2402MHz by DH5	



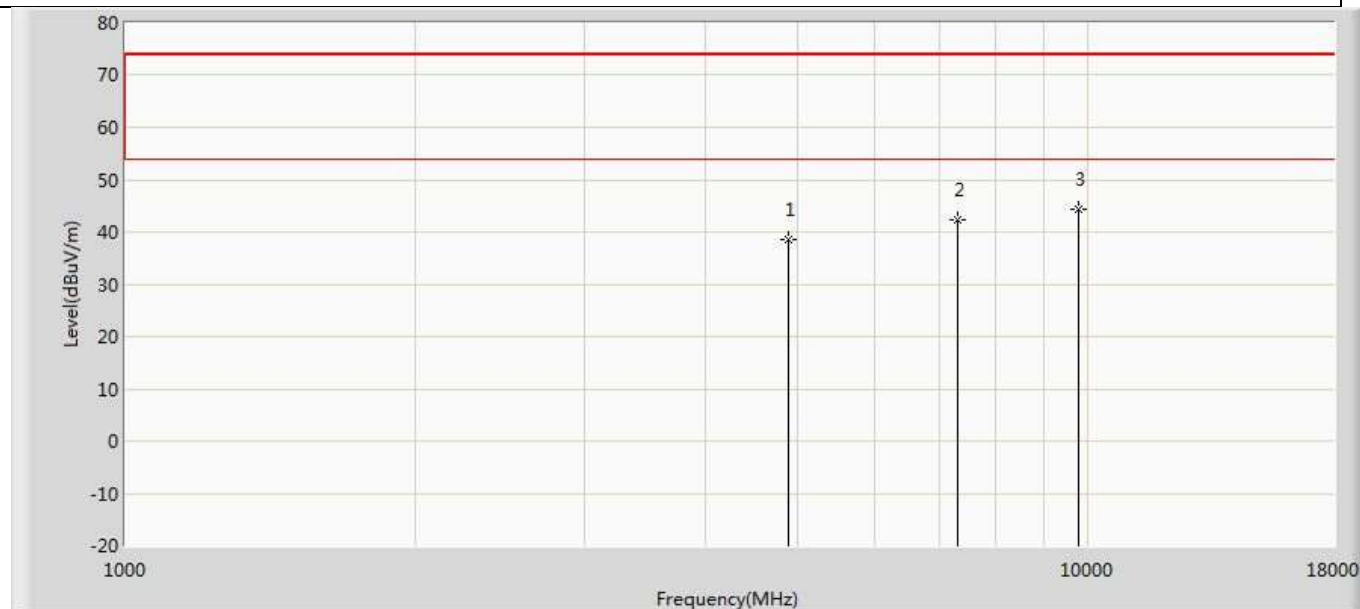
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	39.730	36.069	-34.270	74.000	3.662	PK
2		7206.000	42.030	35.367	-31.970	74.000	6.663	PK
3	*	9608.000	43.581	35.445	-30.419	74.000	8.137	PK

Profile: 2090075R	Page No.: 27
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2441MHz by DH5	



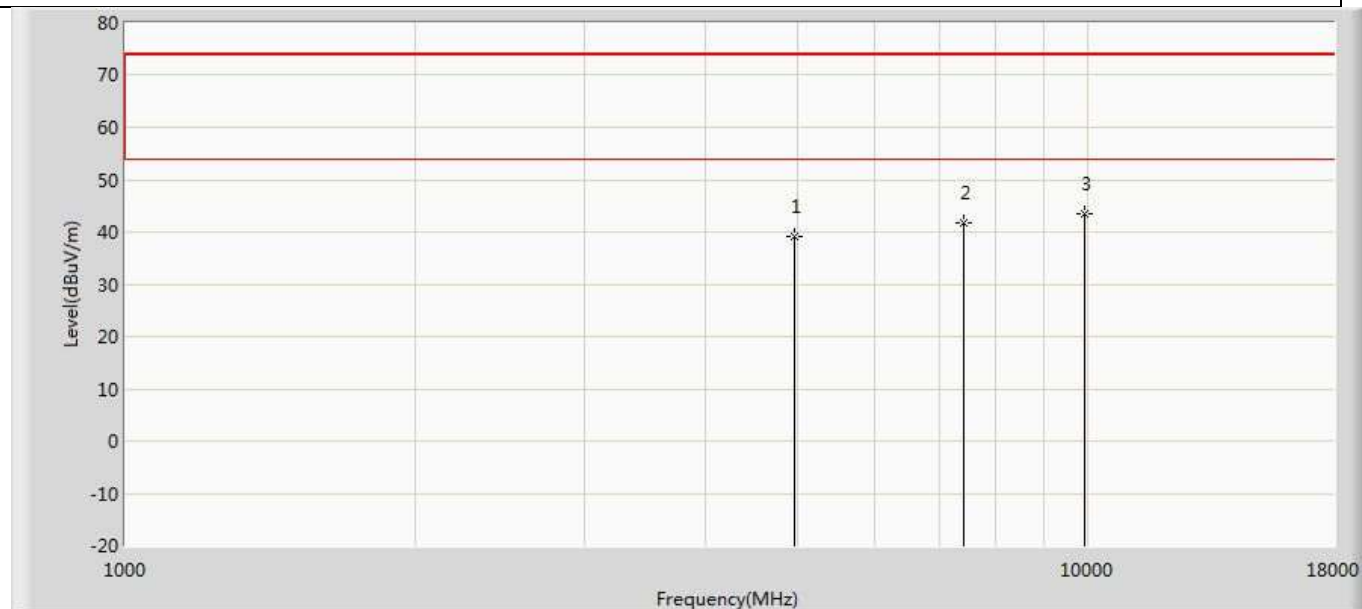
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	40.376	36.758	-33.624	74.000	3.619	PK
2		7323.000	42.210	35.507	-31.790	74.000	6.702	PK
3	*	9764.000	44.120	35.352	-29.880	74.000	8.767	PK

Profile: 2090075R	Page No.: 28
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2441MHz by DH5	



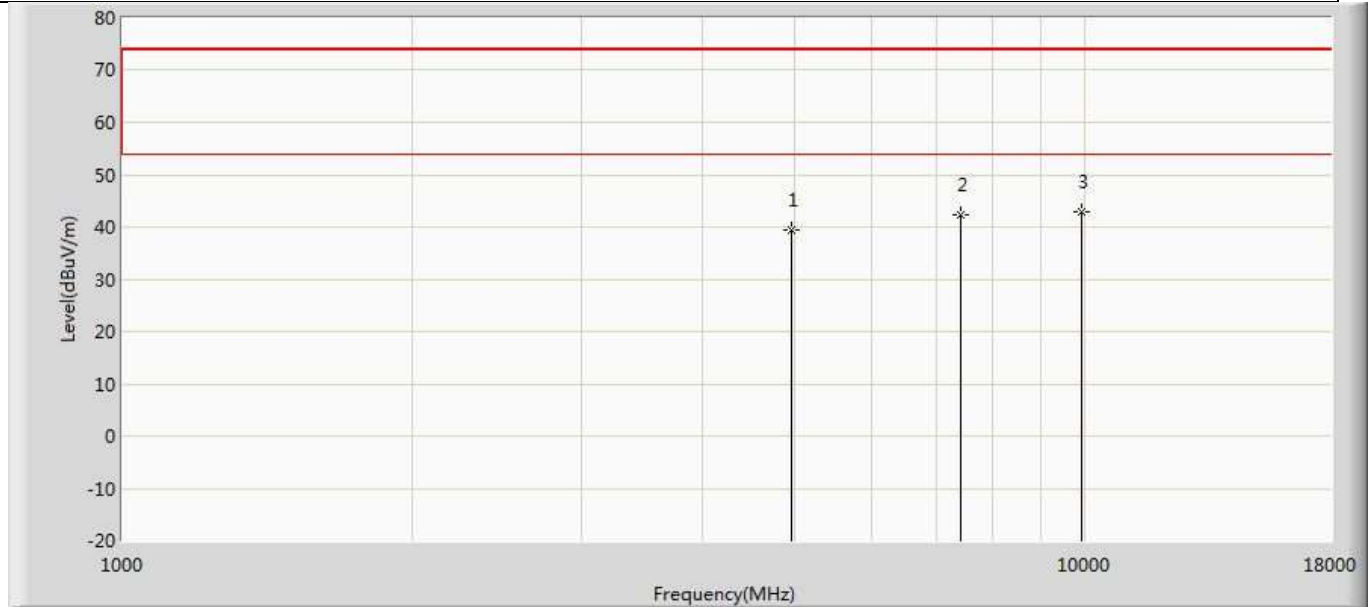
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	38.622	35.004	-35.378	74.000	3.619	PK
2		7323.000	42.327	35.624	-31.673	74.000	6.702	PK
3	*	9764.000	44.425	35.657	-29.575	74.000	8.767	PK

Profile: 2090075R	Page No.: 29
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2480MHz by DH5	



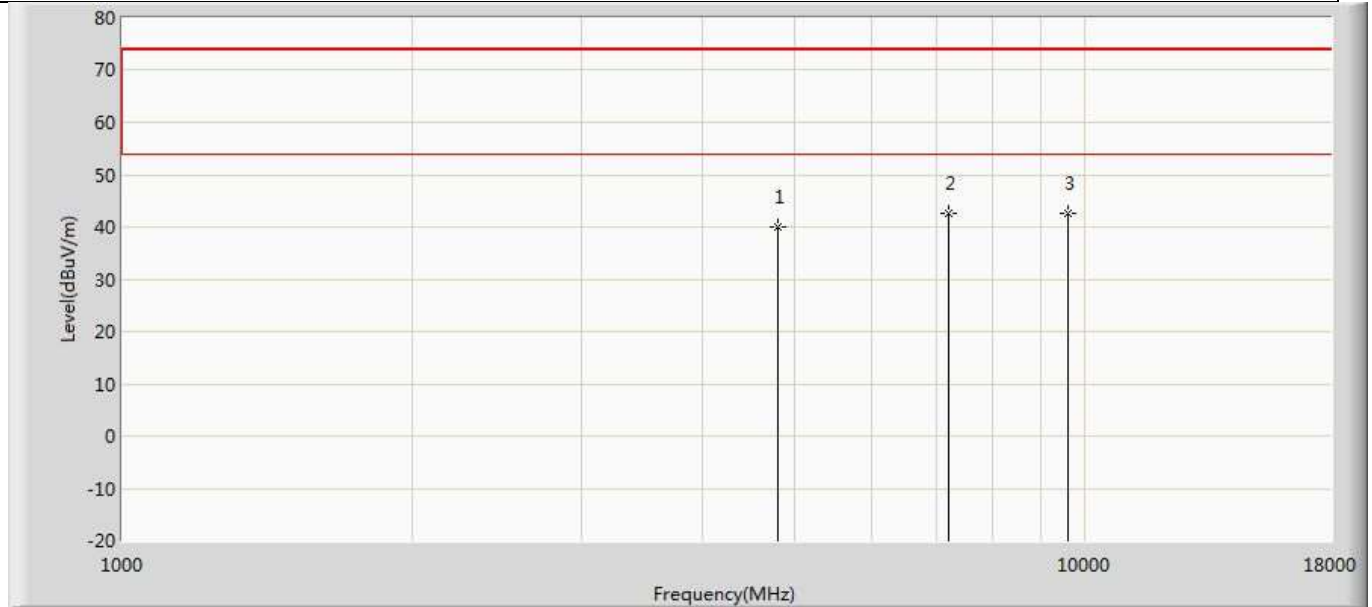
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	39.266	35.655	-34.734	74.000	3.611	PK
2		7440.000	41.639	35.054	-32.361	74.000	6.585	PK
3	*	9920.000	43.497	34.772	-30.503	74.000	8.725	PK

Profile: 2090075R	Page No.: 30
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2480MHz by DH5	



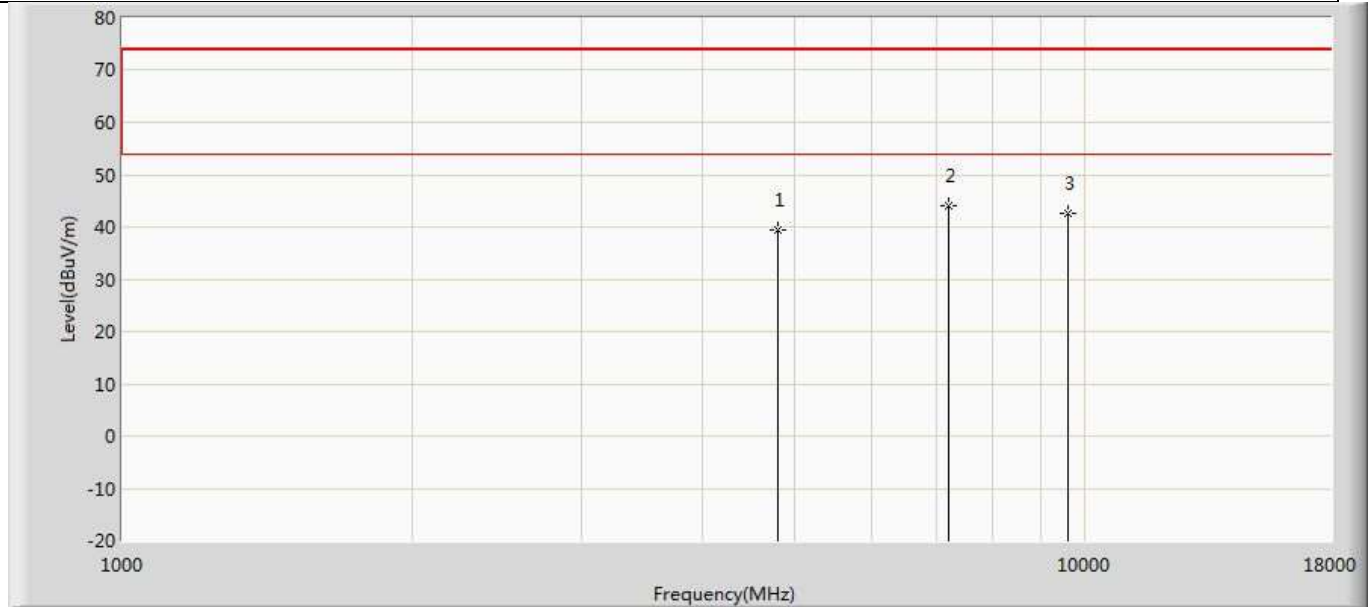
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	39.376	35.765	-34.624	74.000	3.611	PK
2		7440.000	42.455	35.870	-31.545	74.000	6.585	PK
3	*	9920.000	42.899	34.174	-31.101	74.000	8.725	PK

Profile: 2090075R	Page No.: 31
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2402MHz by 2DH5	



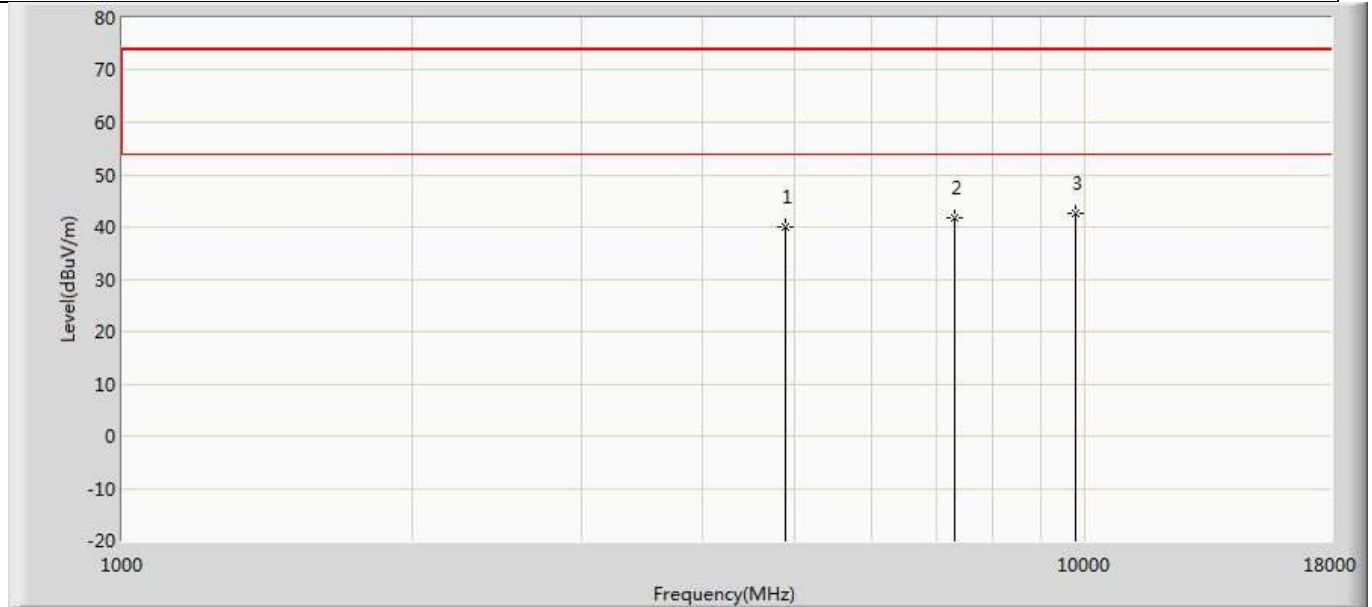
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.101	36.440	-33.899	74.000	3.662	PK
2		7206.000	42.680	36.017	-31.320	74.000	6.663	PK
3	*	9608.000	42.733	34.597	-31.267	74.000	8.137	PK

Profile: 2090075R	Page No.: 32
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2402MHz by 2DH5	



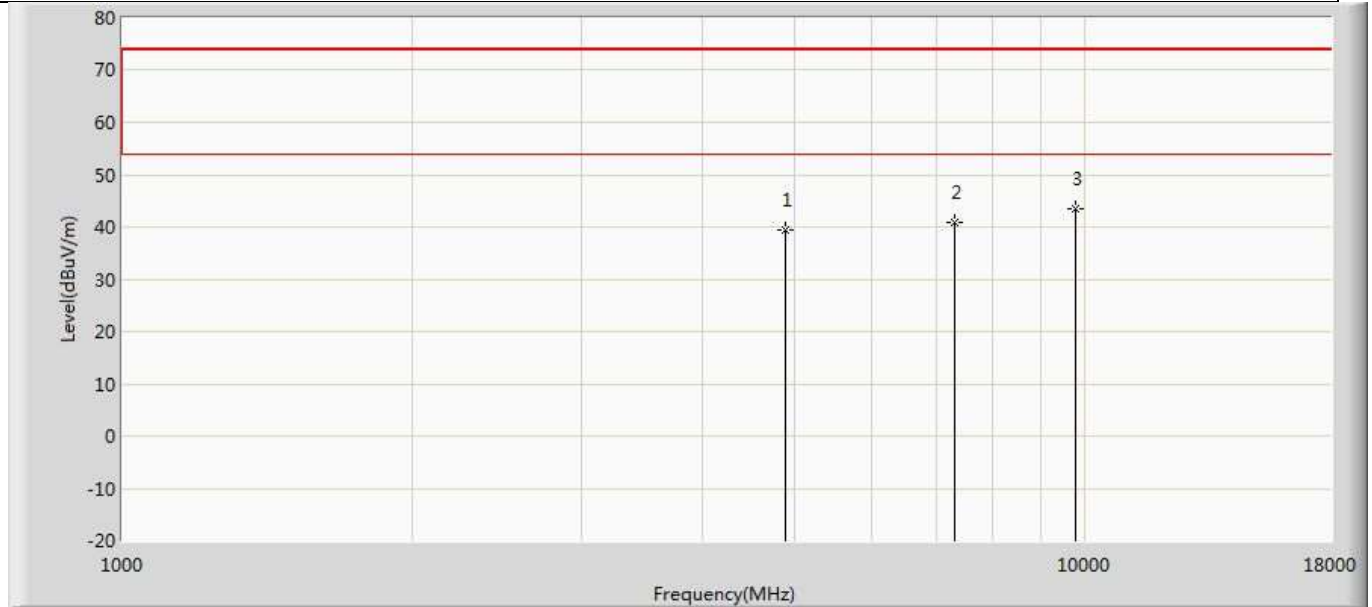
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	39.540	35.879	-34.460	74.000	3.662	PK
2	*	7206.000	44.012	37.349	-29.988	74.000	6.663	PK
3		9608.000	42.691	34.555	-31.309	74.000	8.137	PK

Profile: 2090075R	Page No.: 33
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 09:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2441MHz by 2DH5	



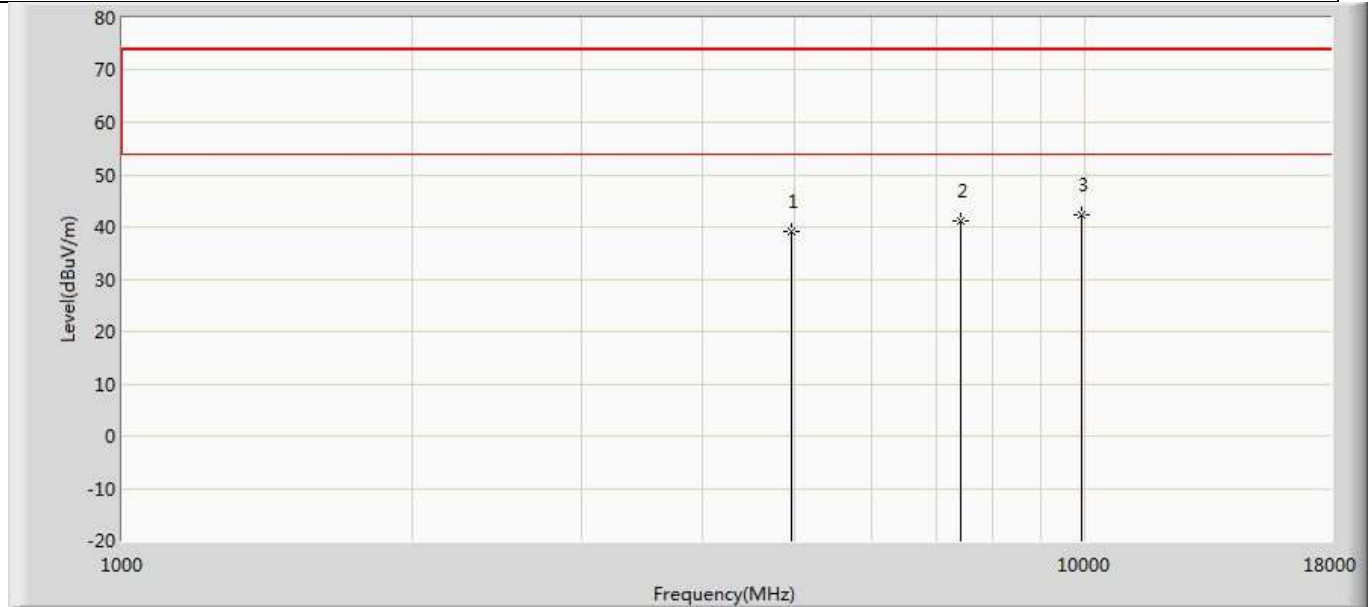
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	39.878	36.260	-34.122	74.000	3.619	PK
2		7323.000	41.827	35.124	-32.173	74.000	6.702	PK
3	*	9764.000	42.730	33.962	-31.270	74.000	8.767	PK

Profile: 2090075R	Page No.: 34
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2441MHz by 2DH5	



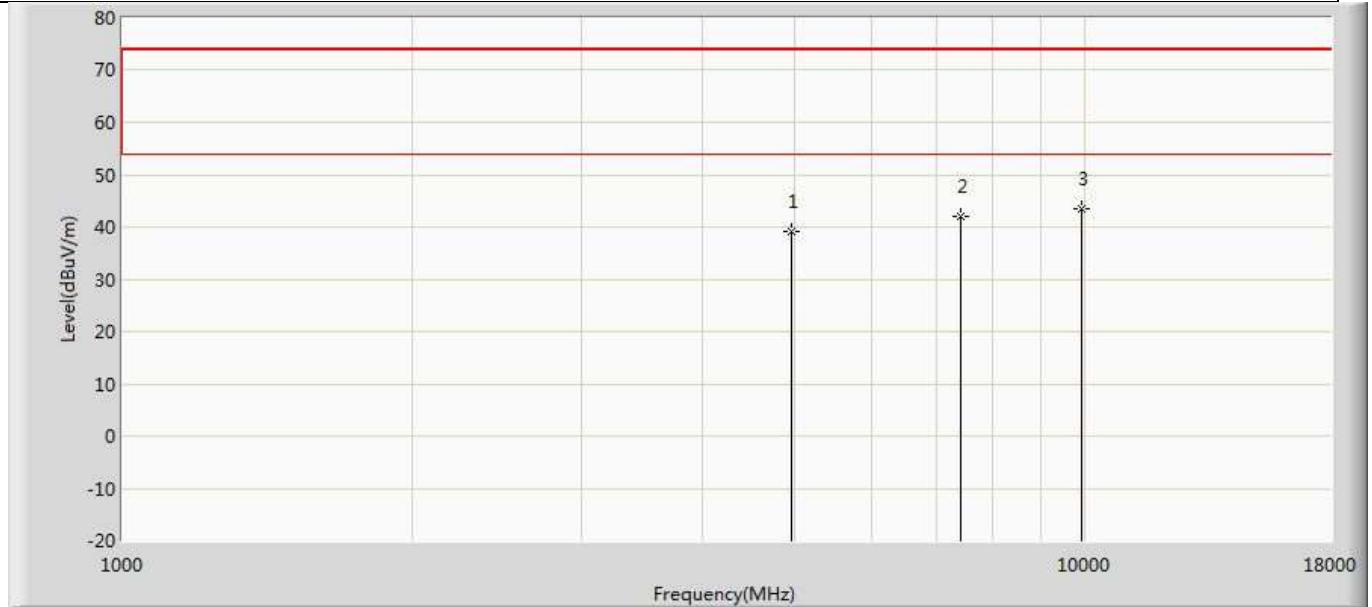
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	39.537	35.919	-34.463	74.000	3.619	PK
2		7323.000	40.960	34.257	-33.040	74.000	6.702	PK
3	*	9764.000	43.431	34.663	-30.569	74.000	8.767	PK

Profile: 2090075R	Page No.: 35
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2480MHz by 2DH5	



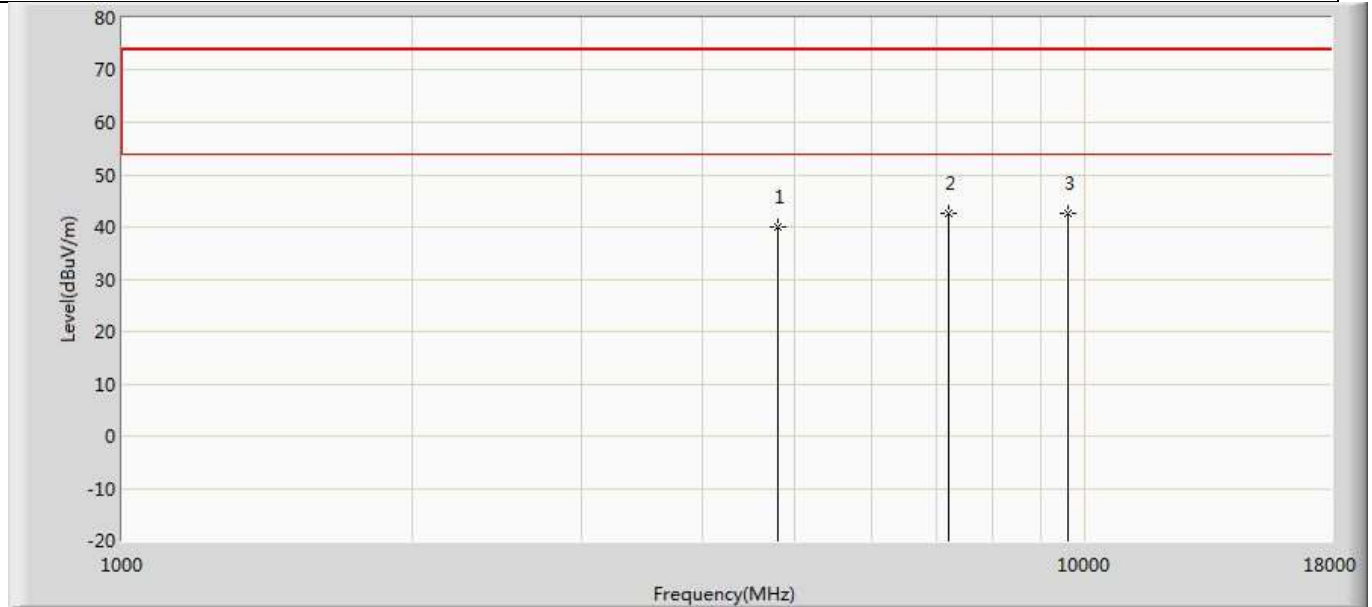
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	39.037	35.426	-34.963	74.000	3.611	PK
2		7440.000	41.102	34.517	-32.898	74.000	6.585	PK
3	*	9920.000	42.271	33.546	-31.729	74.000	8.725	PK

Profile: 2090075R	Page No.: 36
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2480MHz by 2DH5	



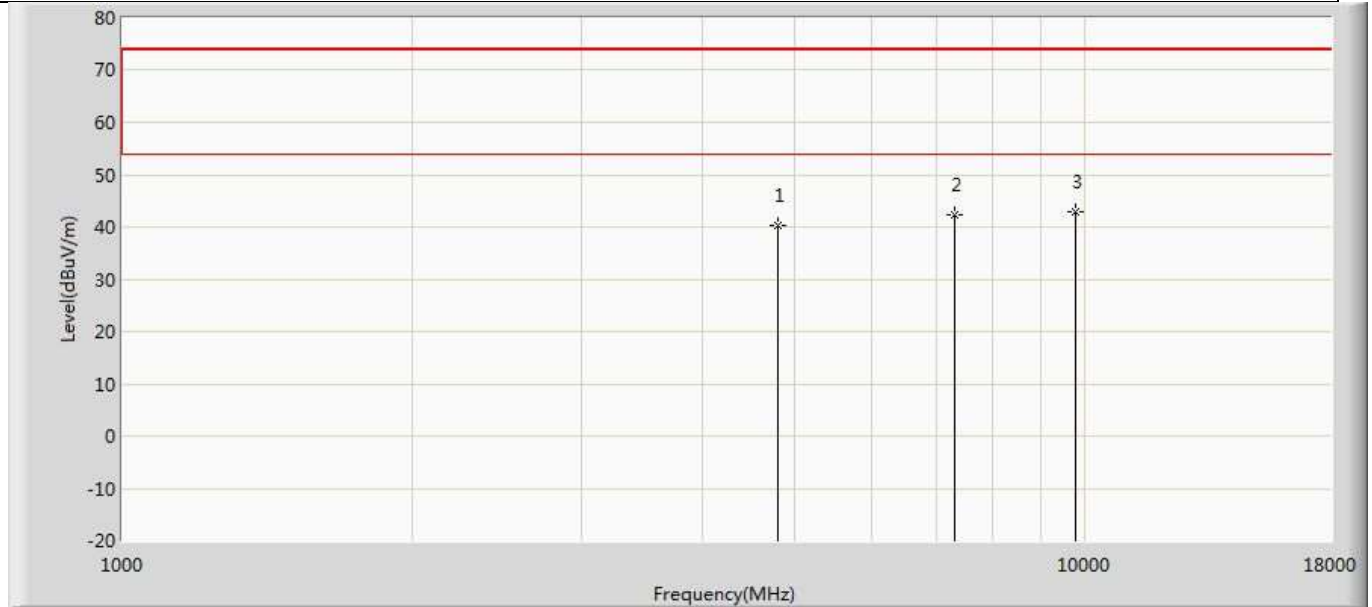
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	39.011	35.400	-34.989	74.000	3.611	PK
2		7440.000	42.021	35.436	-31.979	74.000	6.585	PK
3	*	9920.000	43.336	34.611	-30.664	74.000	8.725	PK

Profile: 2090075R	Page No.: 37
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2402MHz by 3DH5	



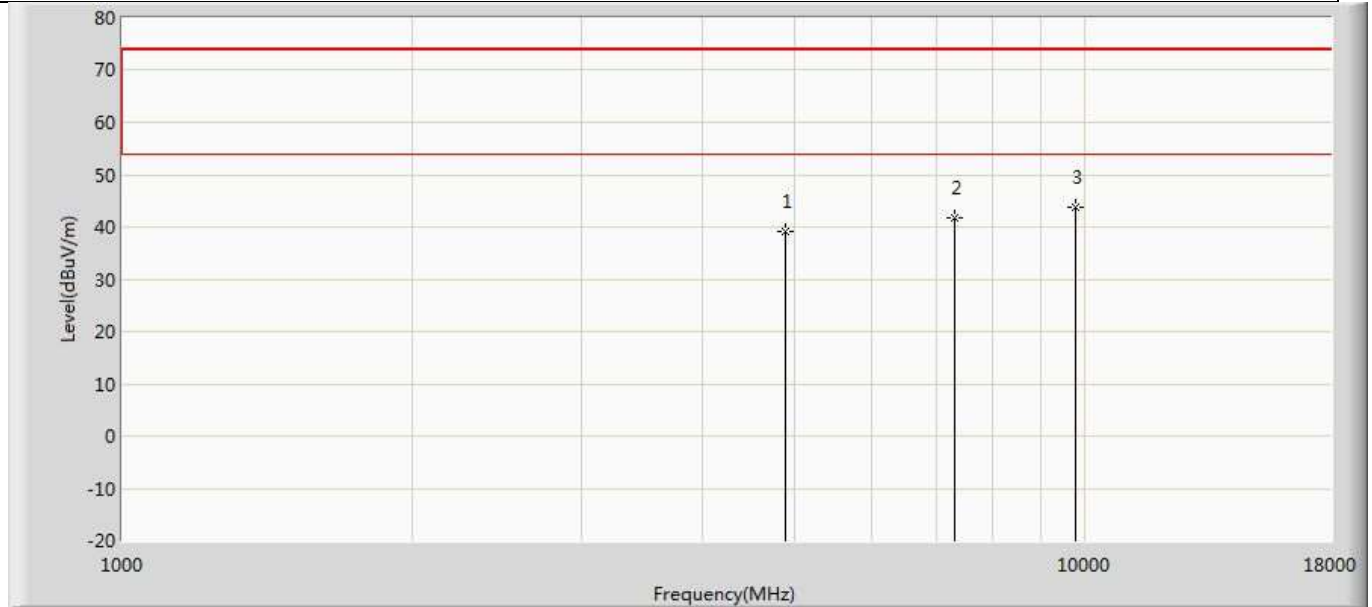
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.105	36.444	-33.895	74.000	3.662	PK
2		7206.000	42.617	35.954	-31.383	74.000	6.663	PK
3	*	9608.000	42.726	34.590	-31.274	74.000	8.137	PK

Profile: 2090075R	Page No.: 38
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 -10:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2402MHz by 3DH5	



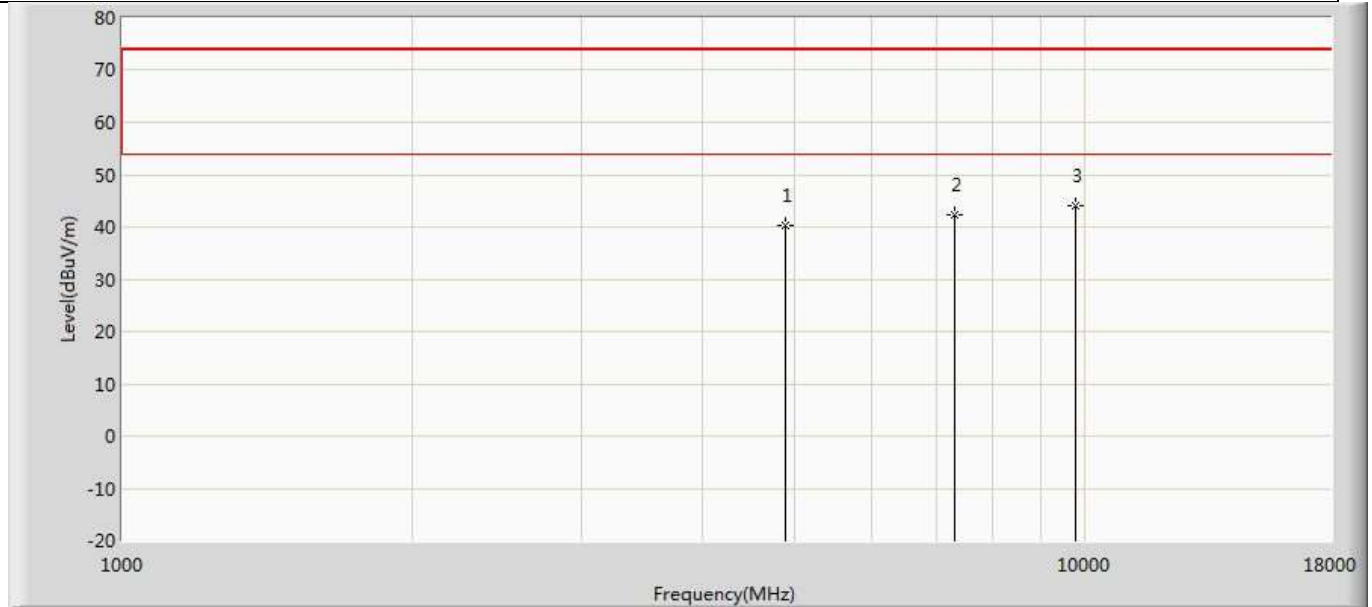
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.351	36.690	-33.649	74.000	3.662	PK
2		7323.000	42.198	35.495	-31.802	74.000	6.702	PK
3	*	9764.000	42.873	34.105	-31.127	74.000	8.767	PK

Profile: 2090075R	Page No.: 39
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2440MHz by 3DH5	



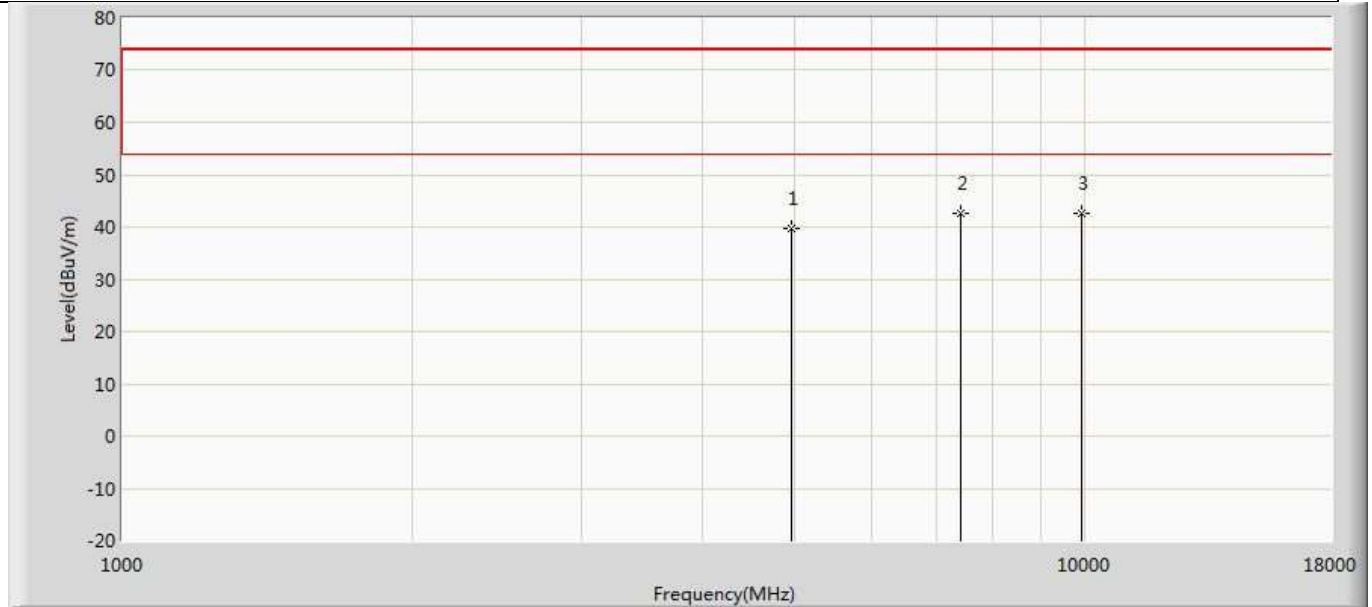
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	39.120	35.502	-34.880	74.000	3.619	PK
2		7323.000	41.860	35.157	-32.140	74.000	6.702	PK
3	*	9764.000	43.791	35.023	-30.209	74.000	8.767	PK

Profile: 2090075R	Page No.: 40
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2440MHz by 3DH5	



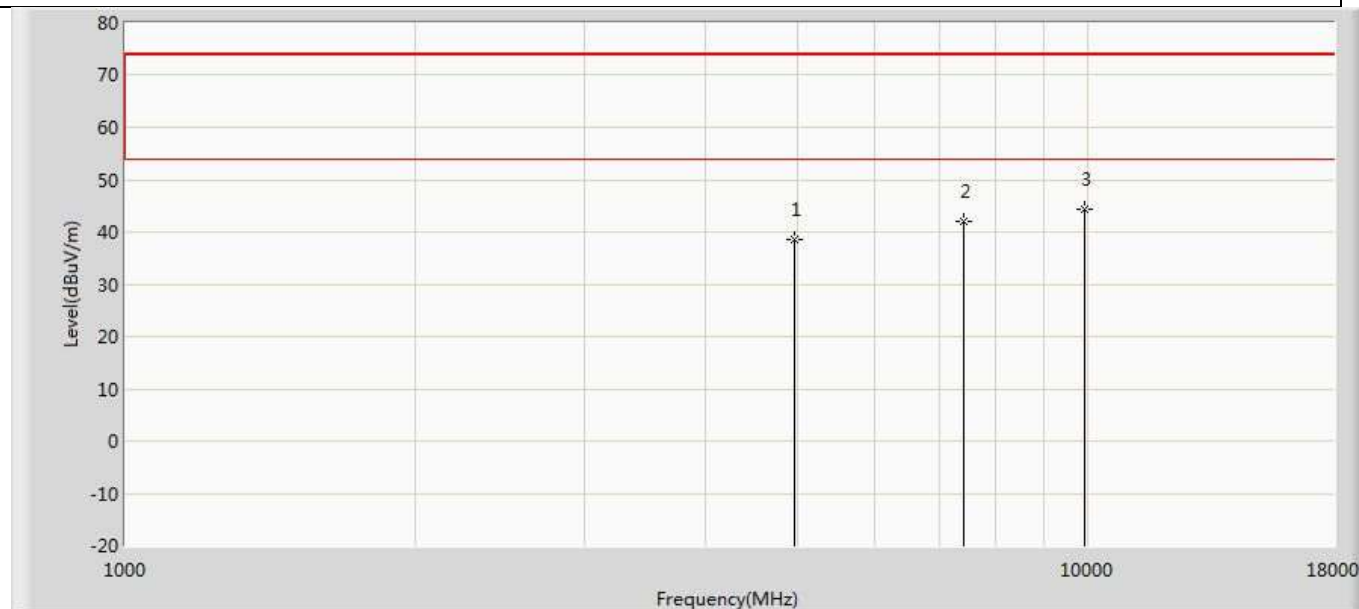
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	40.369	36.751	-33.631	74.000	3.619	PK
2		7323.000	42.386	35.683	-31.614	74.000	6.702	PK
3	*	9764.000	43.989	35.221	-30.011	74.000	8.767	PK

Profile: 2090075R	Page No.: 41
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	39.583	35.972	-34.417	74.000	3.611	PK
2	*	7440.000	42.578	35.993	-31.422	74.000	6.585	PK
3		9920.000	42.497	33.772	-31.503	74.000	8.725	PK

Profile: 2090075R	Page No.: 42
Engineer: Yingfeiwang	
Site: AC5	Time: 2020/08/16 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2480MHz by 3DH5	



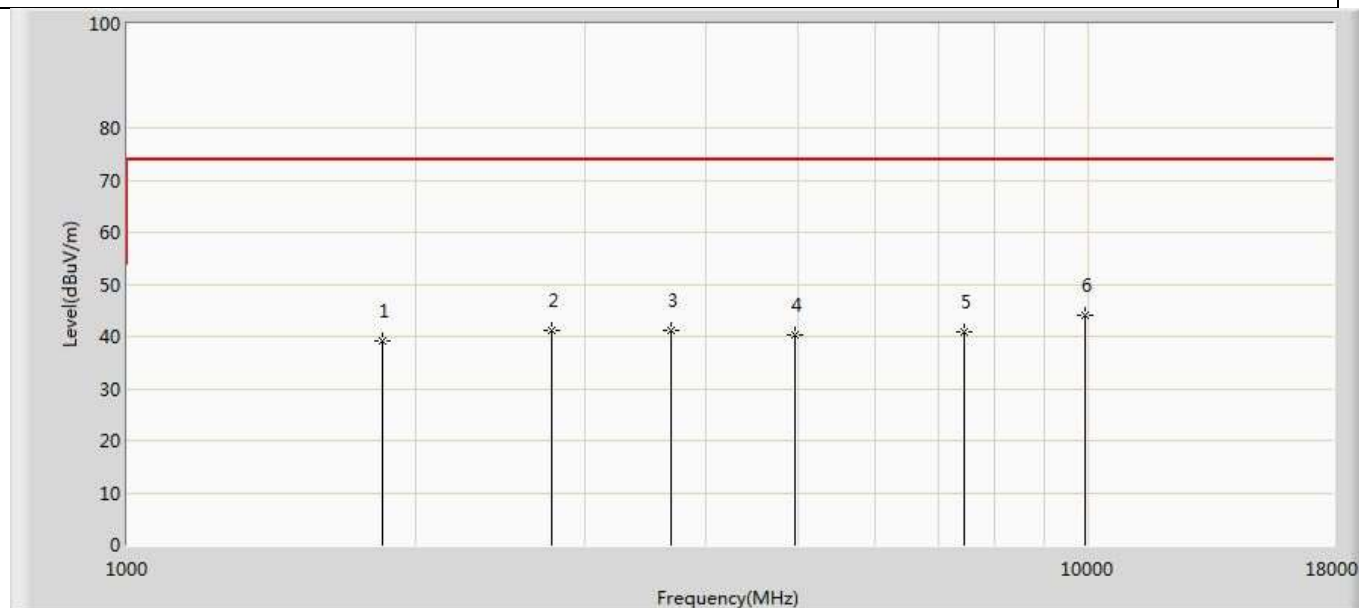
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	38.625	35.014	-35.375	74.000	3.611	PK
2		7440.000	42.124	35.539	-31.876	74.000	6.585	PK
3	*	9920.000	44.396	35.671	-29.604	74.000	8.725	PK

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

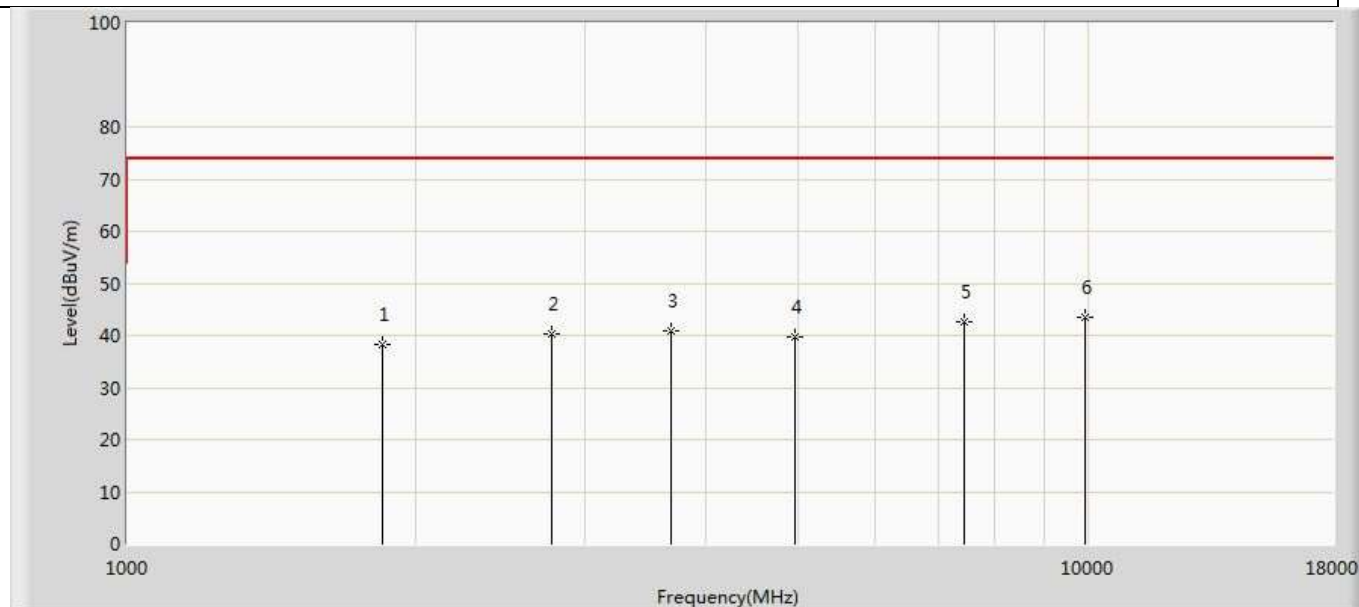
The worst case of Simultaneous transmission:

Profile: 2090075R	Page No.: 5
Engineer: Yingfei.wang	
Site: AC5AC5	Time: 2020/09/22 - 16:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 7 : Transmit at 2480 MHz by DH5 and 920.75 MHz by RFID	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1841.500	38.990	38.758	-35.010	74.000	0.233	PK
2		2762.250	41.273	39.434	-32.727	74.000	1.838	PK
3		3683.000	41.017	37.107	-32.983	74.000	3.910	PK
4		4960.000	40.216	35.431	-33.784	74.000	4.784	PK
5		7440.000	40.737	32.686	-33.263	74.000	8.051	PK
6	*	9920.000	44.168	34.273	-29.832	74.000	9.894	PK

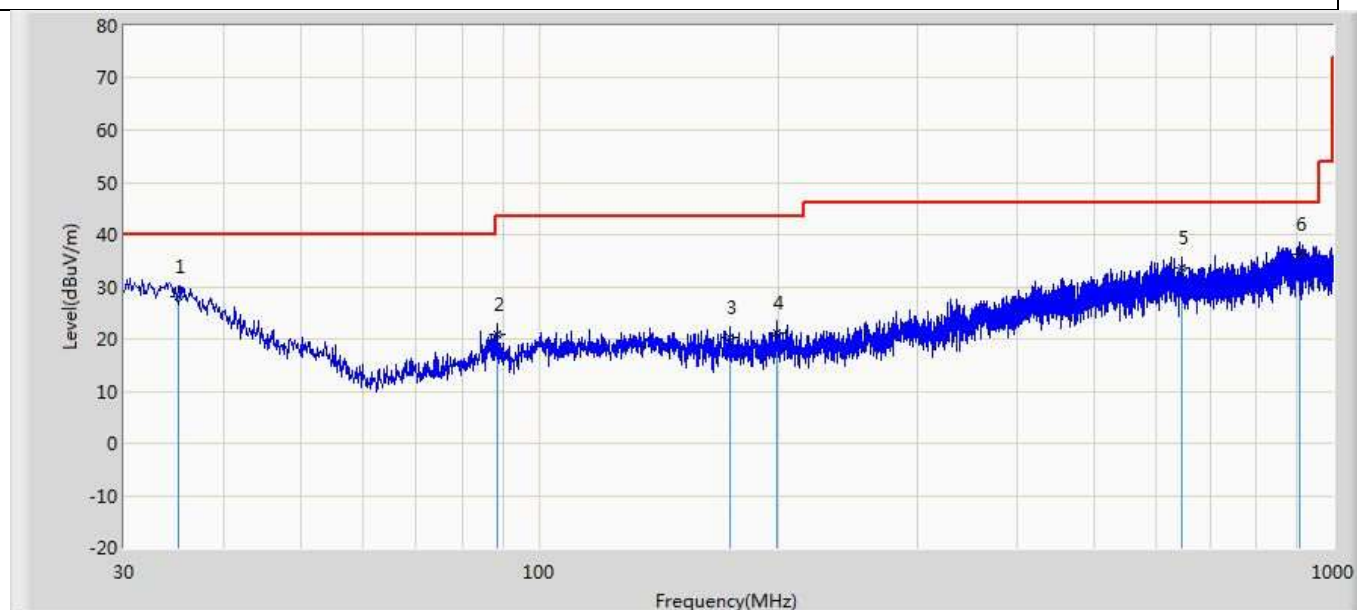
Profile: 2090075R	Page No.: 6
Engineer: Yingfei.wang	
Site: AC5AC5	Time: 2020/09/22 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 7 : Transmit at 2480 MHz by DH5 and 920.75 MHz by RFID	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1841.500	38.320	38.088	-35.680	74.000	0.233	PK
2		2762.250	40.223	38.384	-33.777	74.000	1.838	PK
3		3683.000	40.788	36.878	-33.212	74.000	3.910	PK
4		4960.000	39.763	34.978	-34.237	74.000	4.784	PK
5		7440.000	42.671	34.620	-31.329	74.000	8.051	PK
6	*	9920.000	43.561	33.666	-30.439	74.000	9.894	PK

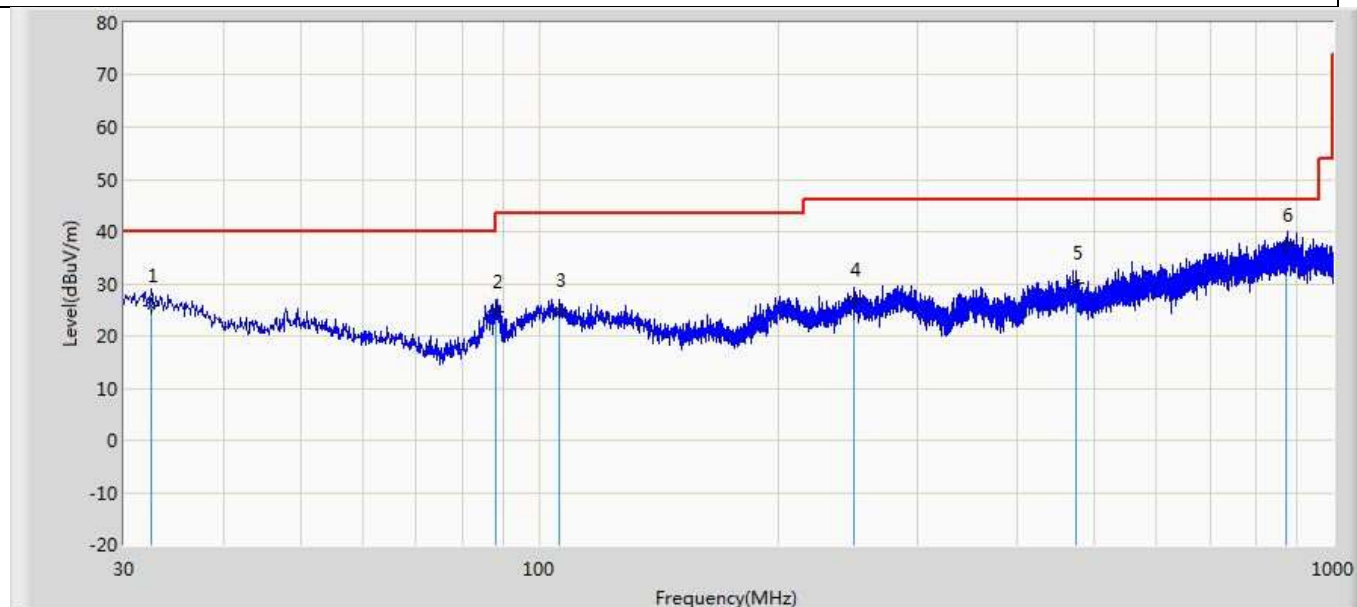
The worst case of Radiated Emission below 1GHz:

Profile: 2090075R	Page No.: 1
Engineer: Yingfei.Wang	
Site: AC2	Time: 2020/09/22 - 20:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: 8690i	Power: Battery
Note: Mode 1	



N o	Mar k	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		35.092	28.076	1.258	-11.924	40.000	26.817	QP
2		88.564	20.749	6.987	-22.751	43.500	13.762	QP
3		174.045	20.218	3.123	-23.282	43.500	17.095	QP
4		199.023	21.161	3.458	-22.339	43.500	17.703	QP
5		644.616	33.668	5.485	-12.332	46.000	28.183	QP
6	*	906.759	36.172	3.458	-9.828	46.000	32.714	QP

Profile: 2090075R	Page No.: 2
Engineer: Yingfei.Wang	
Site: AC2	Time: 2020/09/22 - 20:28
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: 8690i	Power: Battery
Note: Mode 1	



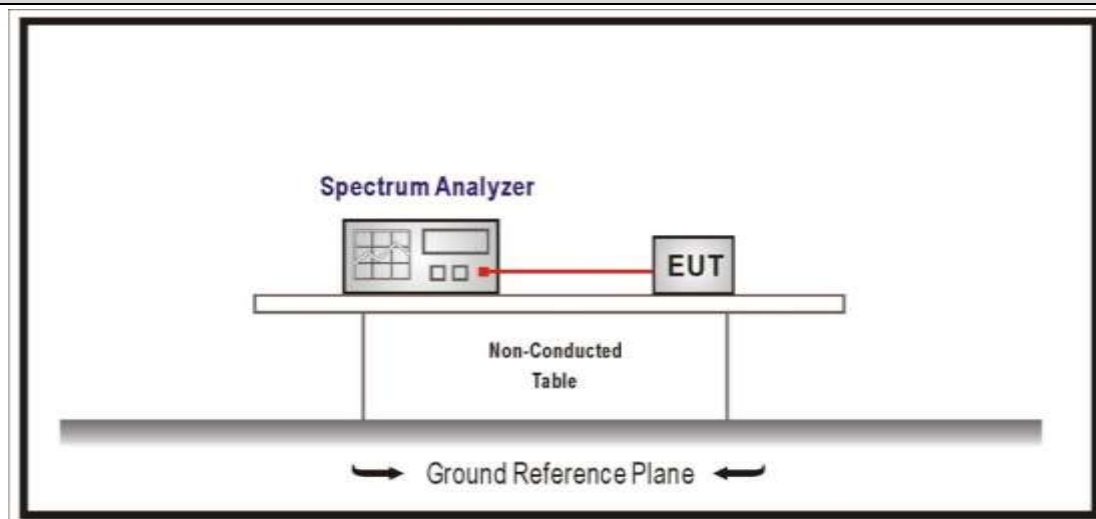
N o	Mar k	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		32.425	25.903	2.698	-14.097	40.000	23.205	QP
2		88.200	24.643	7.984	-18.857	43.500	16.659	QP
3		106.024	25.019	3.012	-18.481	43.500	22.007	QP
4		248.977	26.901	2.589	-19.099	46.000	24.312	QP
5		475.473	30.098	3.984	-15.902	46.000	26.114	QP
6	*	873.051	37.397	4.516	-8.603	46.000	32.881	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4.3 20dB Bandwidth**VERDICT: PASS****4.3.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.247(a)
☒	For frequency hopping systems operating in 2400-2483.5 MHz band, within frequency range.	
☐	For frequency hopping systems operating in 902-928 MHz band, the maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.	
☐	For frequency hopping systems operating in 5725-5850 MHz band, the maximum 20 dB bandwidth of the hopping channel is 1 MHz.	

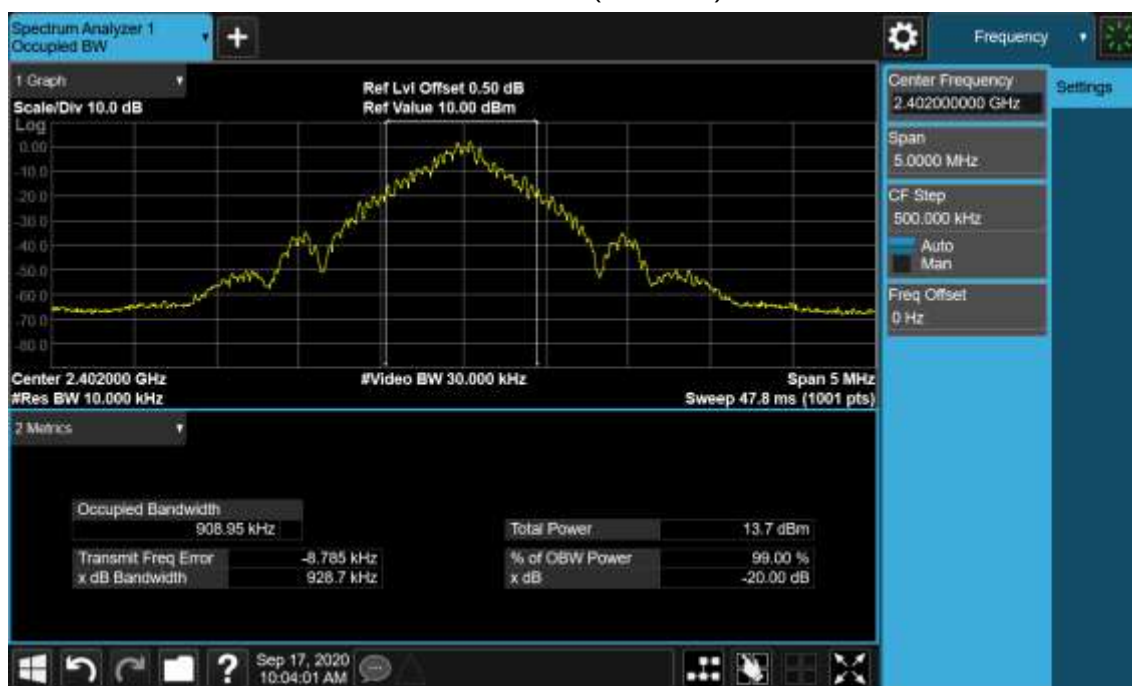
4.3.2 Test Setup**4.3.3 Test Procedure**

References Rule		Chapter	Description
☒	ANSI C63.10	6.9	Occupied bandwidth tests
☒	ANSI C63.10	6.9.2	Occupied bandwidth—relative measurement procedure

4.3.4 Test Data

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
1	00	2402	908.95	928.7	≥ 500	Pass
	39	2441	904.73	926.8	≥ 500	Pass
	79	2480	900.56	926.7	≥ 500	Pass
2	00	2402	1200.00	1354.0	≥ 500	Pass
	39	2441	1199.20	1354.0	≥ 500	Pass
	79	2480	1196.90	1352.0	≥ 500	Pass
3	00	2402	1204.30	1344.0	≥ 500	Pass
	39	2441	1206.20	1345.0	≥ 500	Pass
	79	2480	1205.00	1343.0	≥ 500	Pass

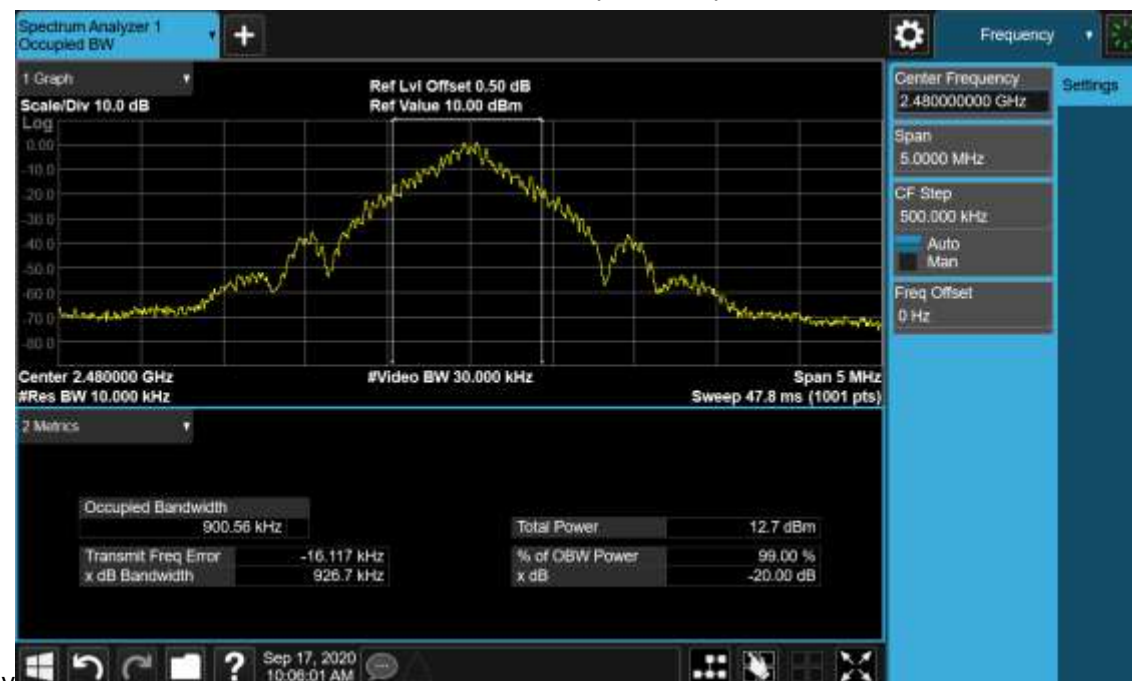
Mode 1 CH00(2402MHz)



Mode 1 CH39(2441MHz)



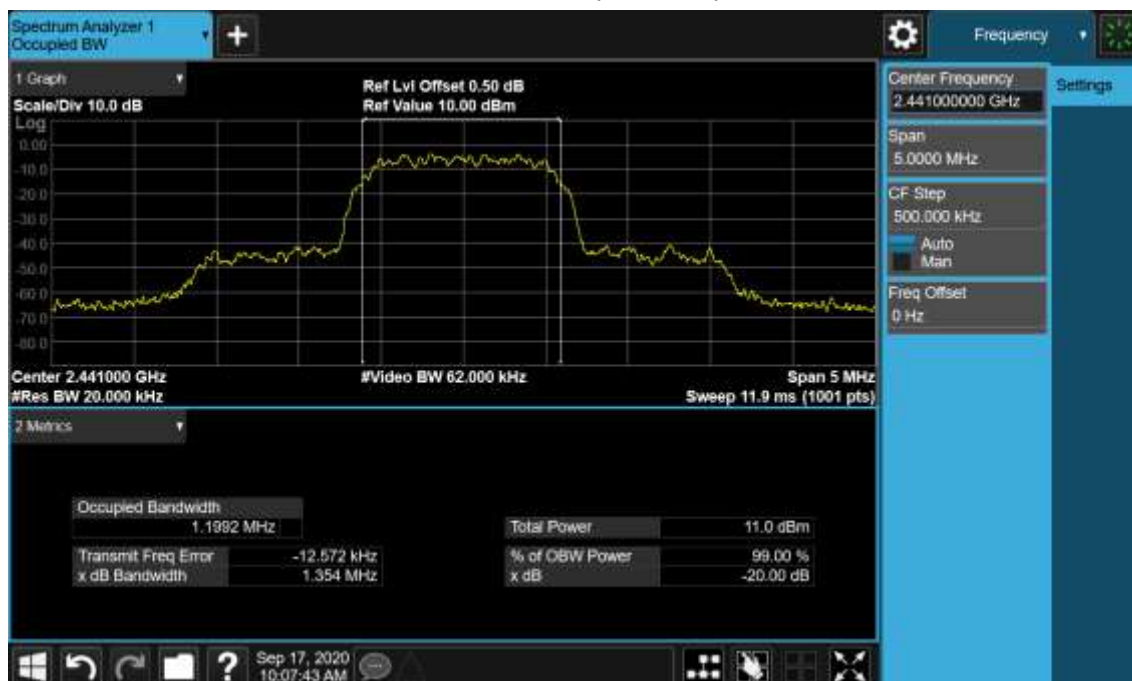
Mode 1 CH78(2480MHz)



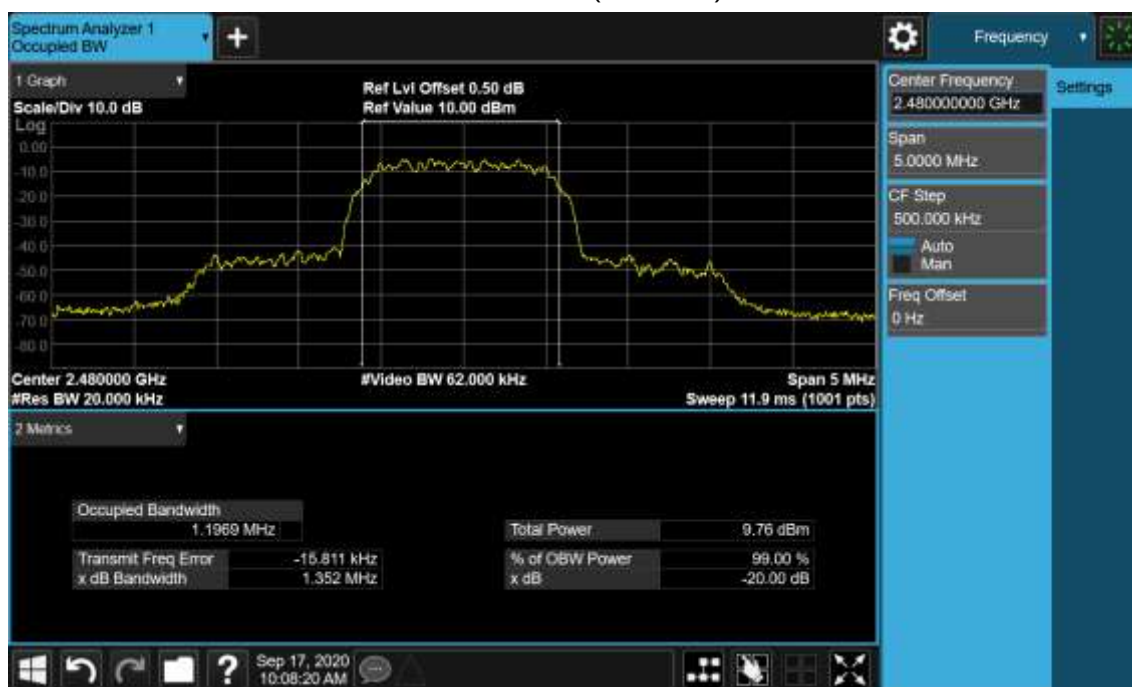
Mode 2 CH00(2402MHz)



Mode 2 CH39(2441MHz)



Mode 2 CH78(2480MHz)



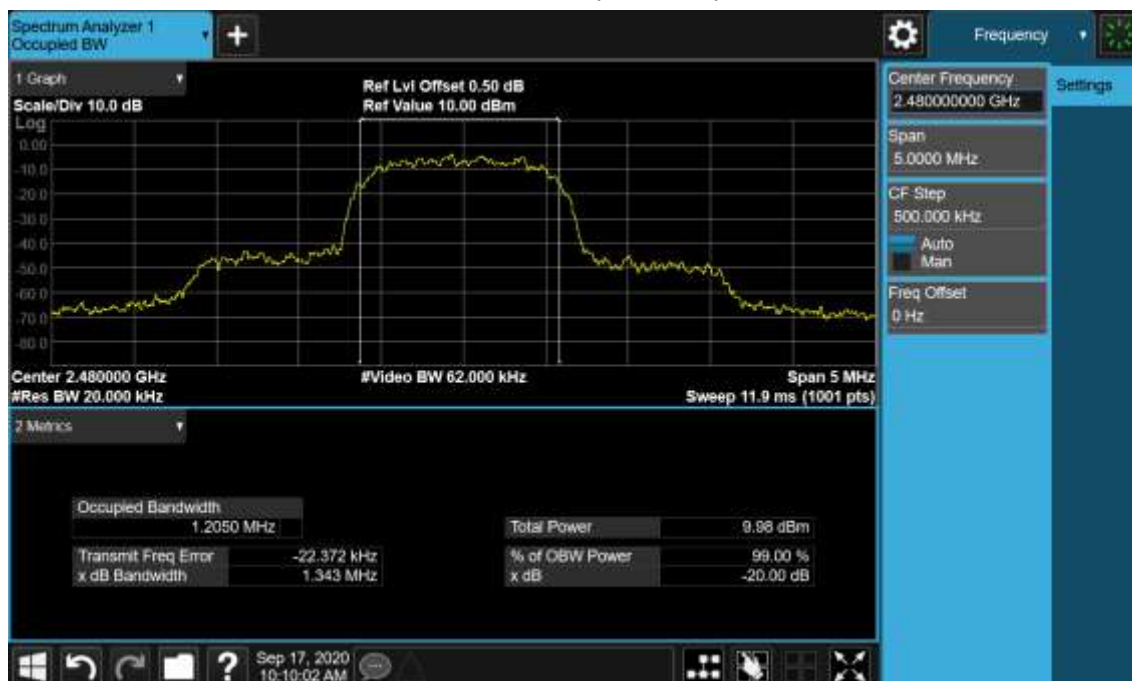
Mode 3 CH00(2402MHz)



Mode 3 CH39(2441MHz)



Mode 3 CH78(2480MHz)



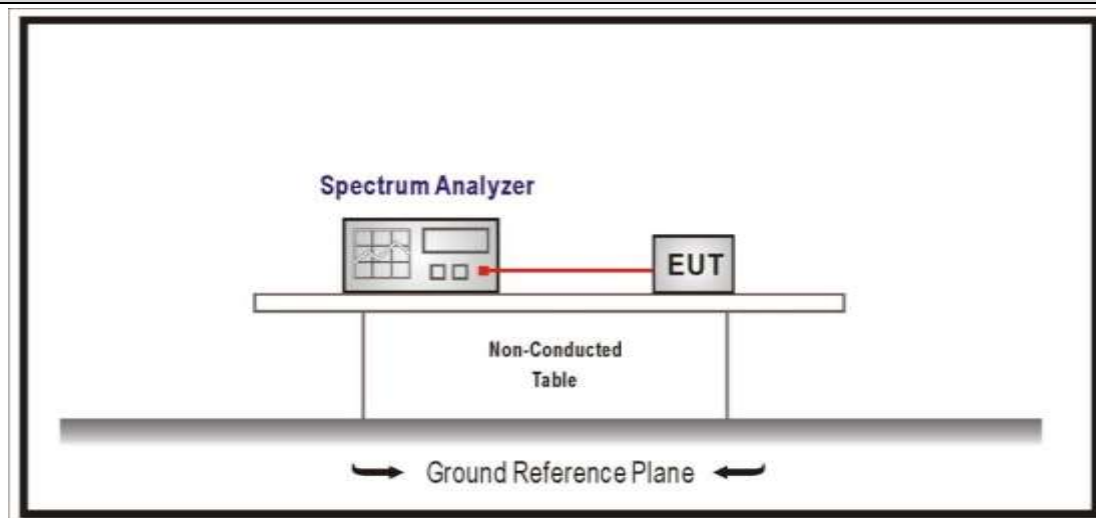
4.4 Carrier Frequency Separation

VERDICT: PASS

4.4.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(a)
☐	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.
☒	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.
☐	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
☐	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
☐	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.

4.4.2 Test Setup



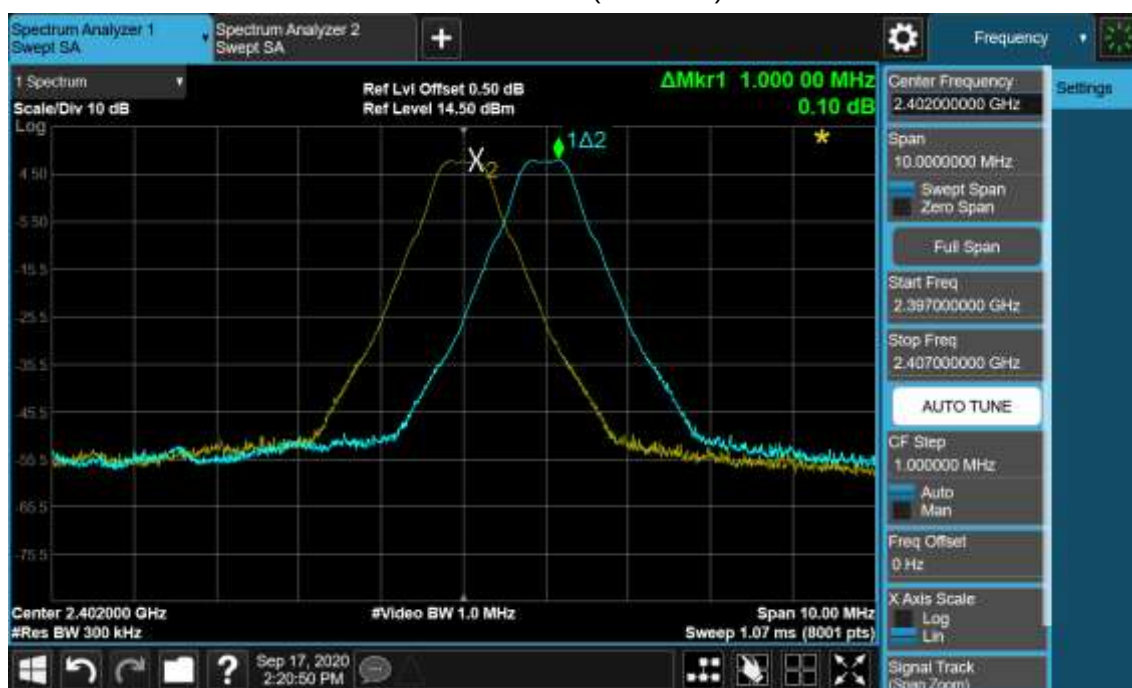
4.4.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.2	Carrier frequency separation

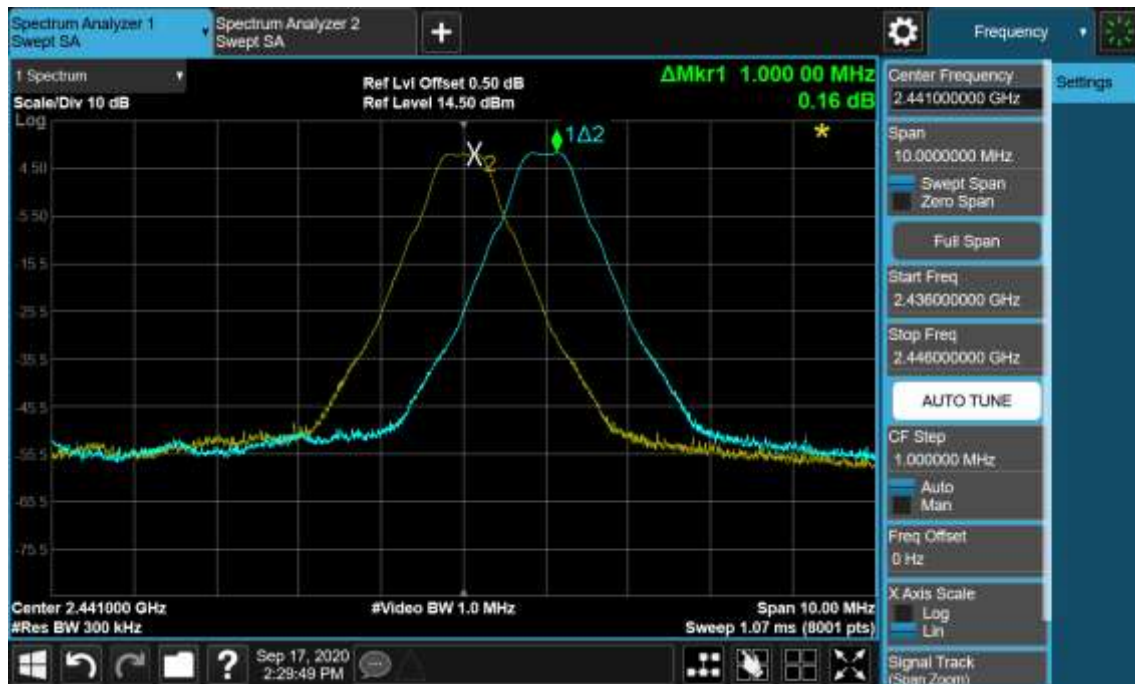
4.4.4 Test Data

Mode	Channel	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
1	00	2402	1000	619.13	Pass
	39	2441	1000	617.87	Pass
	78	2480	1000	617.80	Pass
2	00	2402	1000	902.67	Pass
	39	2441	1000	902.67	Pass
	78	2480	1000	901.33	Pass
3	00	2402	1000	896.00	Pass
	39	2441	1000	896.67	Pass
	78	2480	1000	895.33	Pass

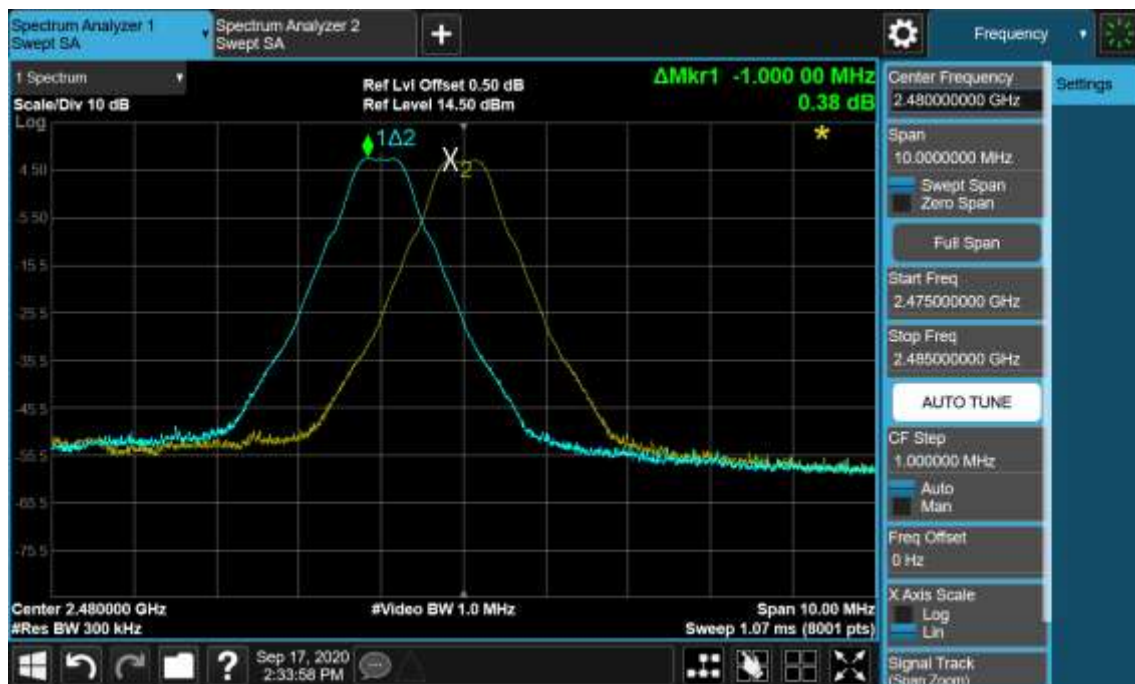
Mode 1 CH00(2402MHz)



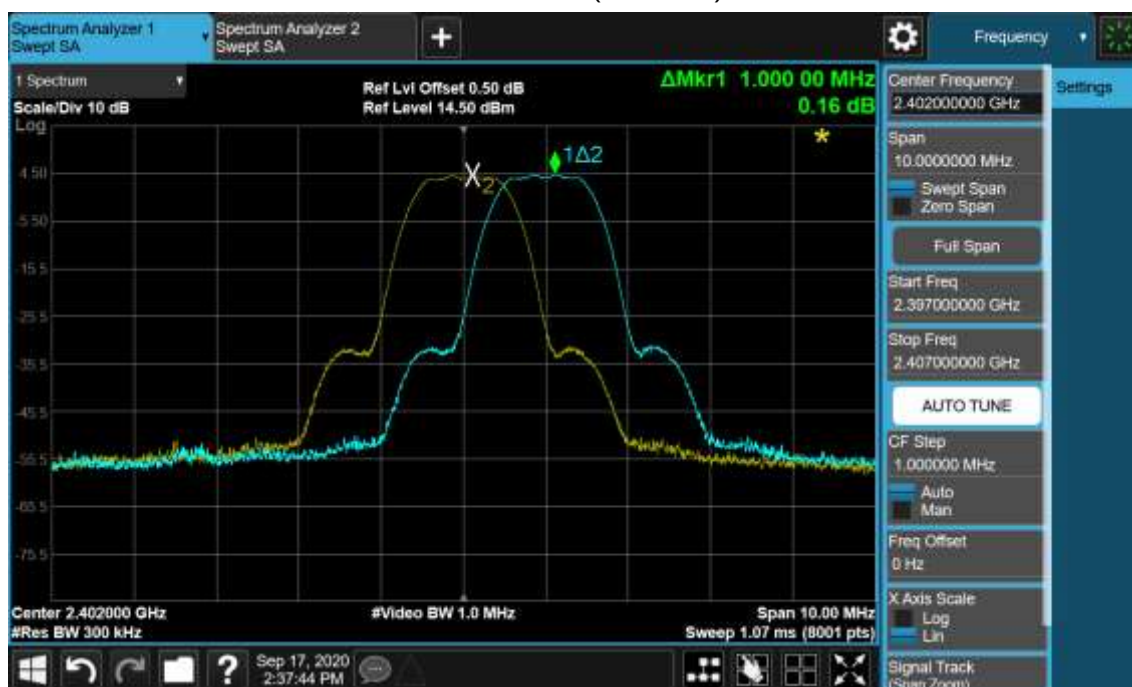
Mode 1 CH39(2441MHz)



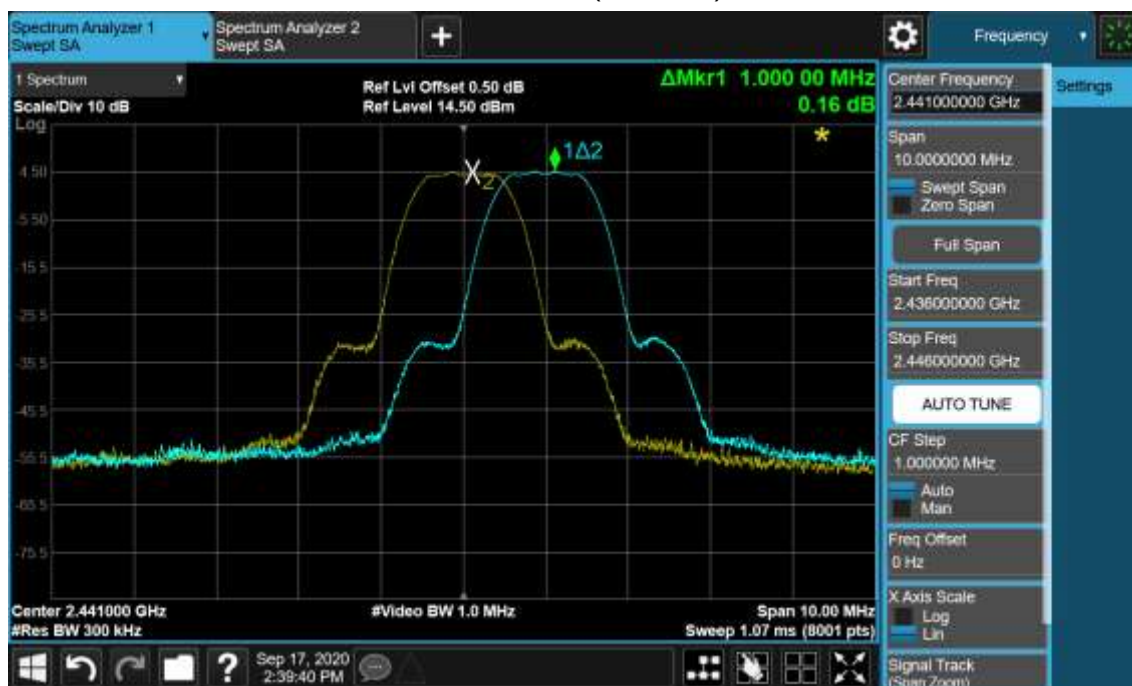
Mode 1 CH78(2480MHz)



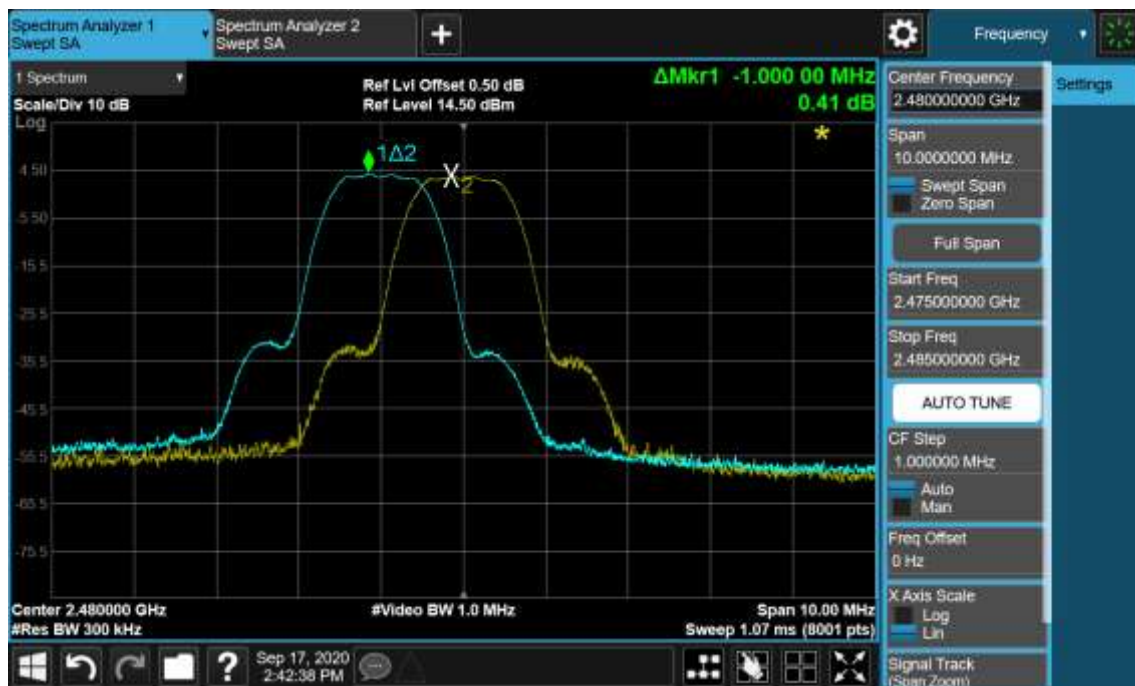
Mode 2 CH00(2402MHz)



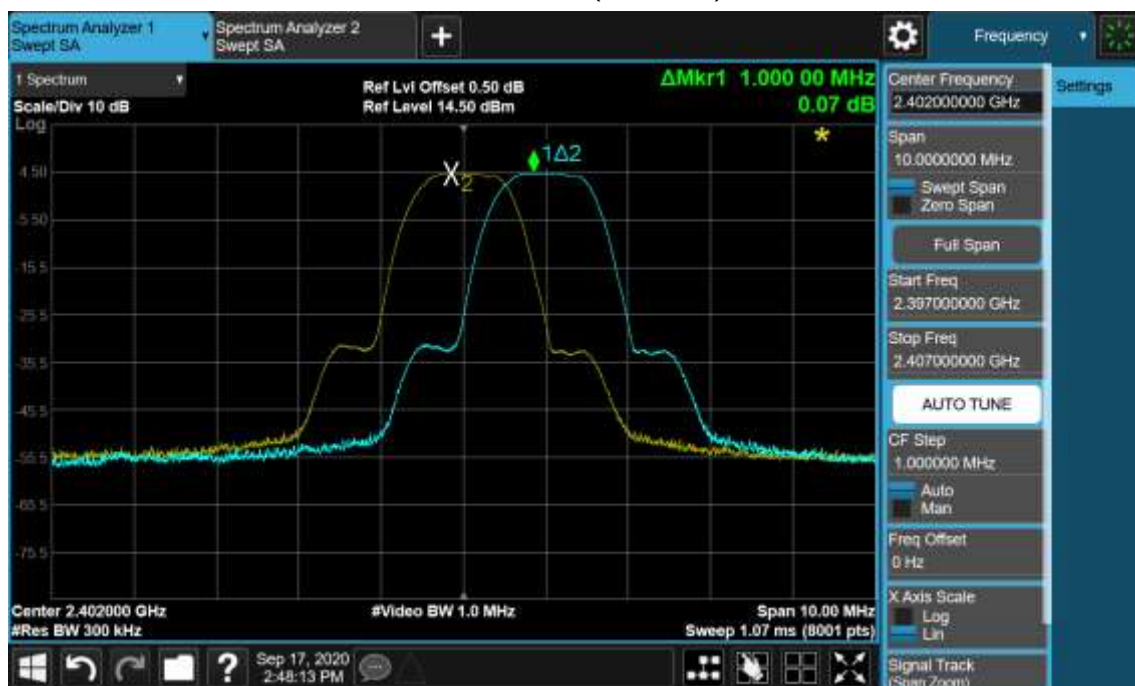
Mode 2 CH39(2441MHz)



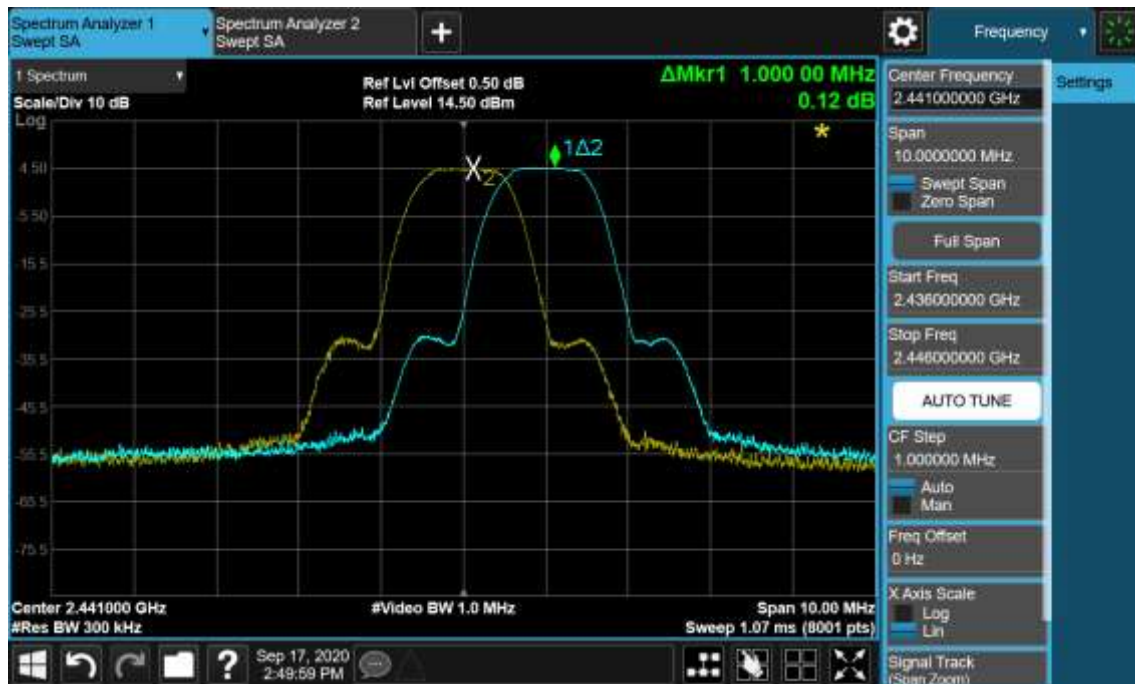
Mode 2 CH78(2480MHz)



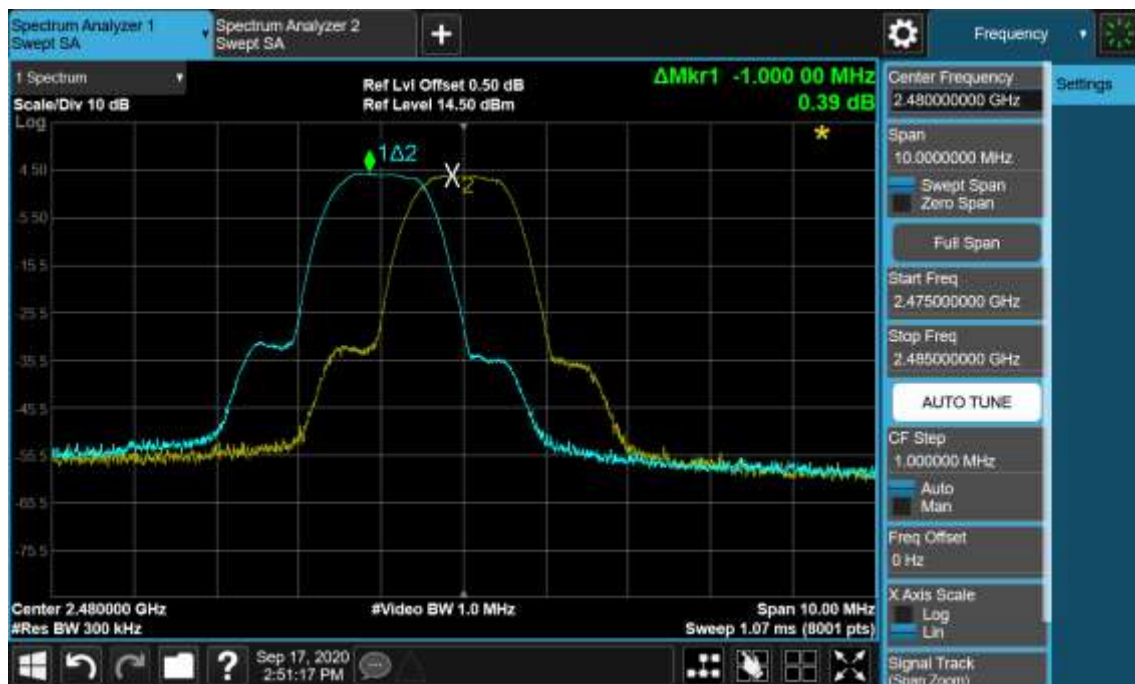
Mode 3 CH00(2402MHz)



Mode 3 CH39(2441MHz)



Mode 3 CH78(2480MHz)



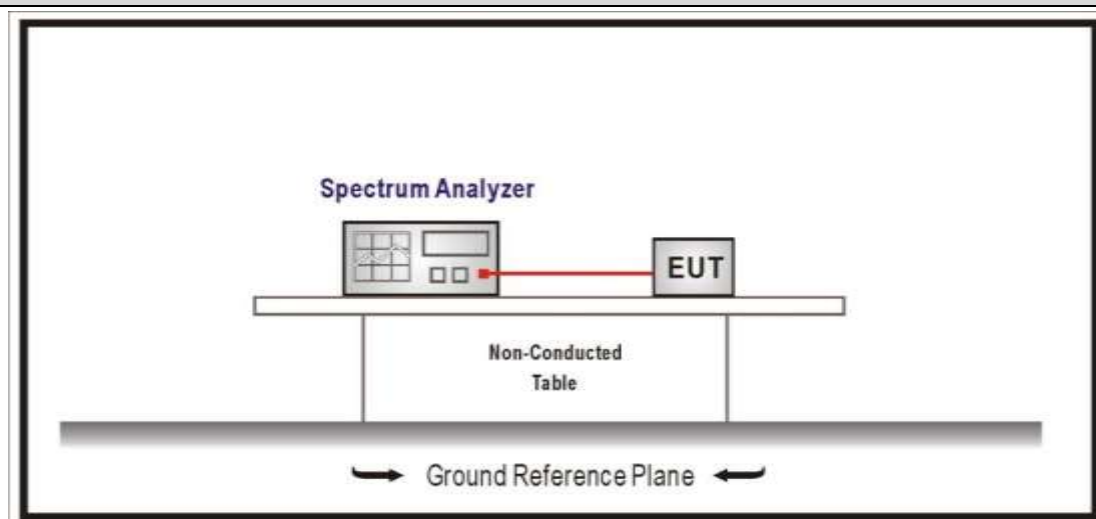
4.5 Number of hopping Frequencies

VERDICT: PASS

4.5.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(a)
☒	For frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is less than 250 kHz, shall use at least 50 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is higher than 250 kHz, shall use at least 25 hopping frequencies.
☐	For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

4.5.2 Test Setup



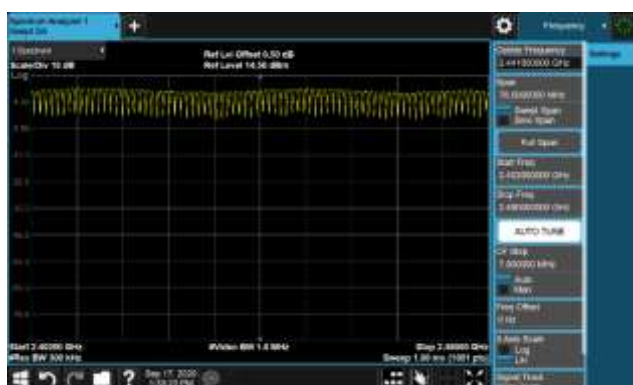
4.5.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	7.8.	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.3	Number of Hopping Frequencies

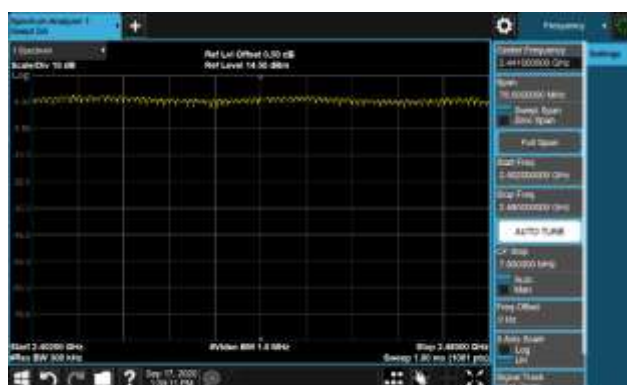
4.5.4 Test Data

Mode	Number of Hopping Frequencies	Limit	Result
4	79	>15	Pass
5	79	>15	Pass
6	79	>15	Pass

Mode 1



Mode 2

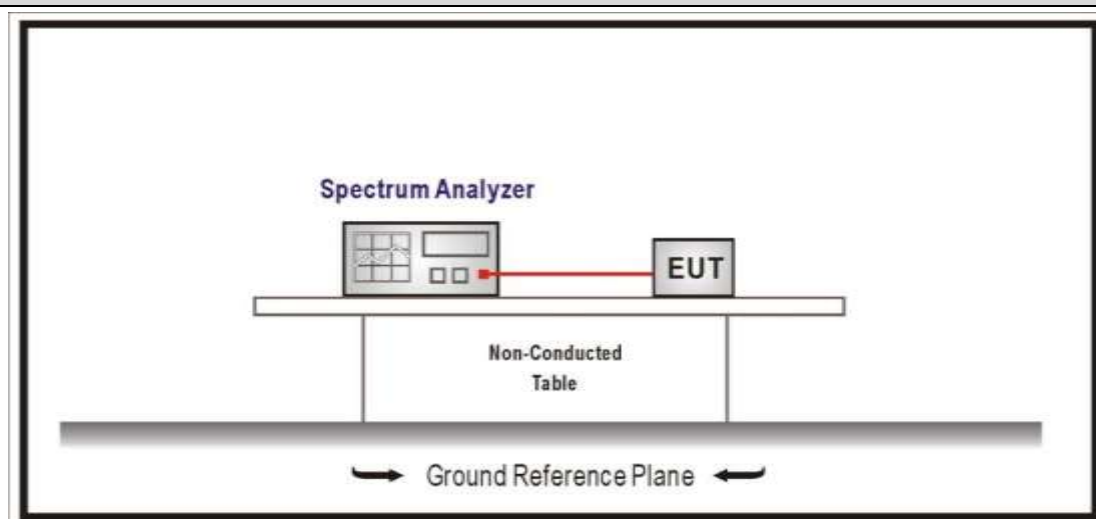


Mode 3



4.6 Time of Occupancy(Dwell Time)**VERDICT: PASS****4.6.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(a)
☒	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.
☐	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
☐	For frequency hopping systems operating in the 902-928 MHz band: 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
☐	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.

4.6.2 Test Setup**4.6.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.4	Time of occupancy (dwell time)

4.6.4 Test Data

Mode	Channel	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
4	39	2441	122.56	< 400	Pass

Note1: Test Time Period: $0.4 \times 79 = 31.6 \text{ sec}$

Note2: Time of Occupancy = $0.383 \times 32 \times 31.6 / 3.16 = 122.56 \text{ ms}$

Note3: We have evaluated different packet type, shown in the report is the worst data.

Channel 39 (2441MHz) - (DH1)



Mode	Channel	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
1	39	2441	218.29	< 400	Pass

Note1: Test Time Period: $0.4 \times 79 = 31.6 \text{ sec}$

Note2: Time of Occupancy = $1.629 \times 134 = 218.29 \text{ ms}$

Note3: We have evaluated different packet type, shown in the report is the worst data.

Channel 39 (2441MHz) - (DH3)



Mode	Channel	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
1	39	2441	201.60	< 400	Pass

Note1: Test Time Period: $0.4 \times 79 = 31.6 \text{ sec}$

Note2: Time of Occupancy = $2.880 \times 7 \times 31.6 / 3.16 = 201.60 \text{ ms}$

Note3: We have evaluated different packet type, shown in the report is the worst data.

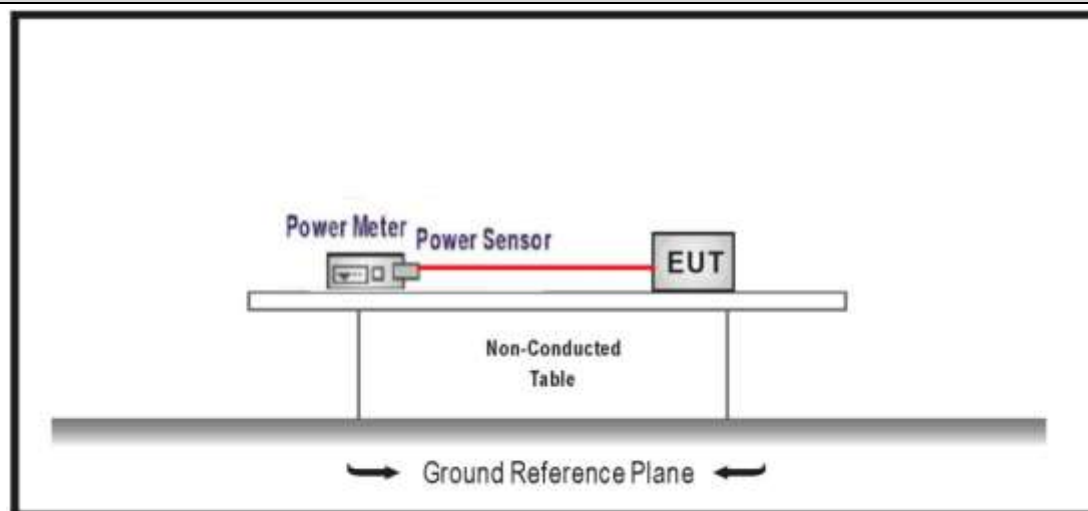
Channel 39 (2441MHz) - (DH5)



Note: The packet time of AFH mode is same as normal mode, due to the packet time of AFH mode multiply with lesser factor is dwell time of $0.4 \times 20 = 8 \text{ S}$, the dwell time of AFH mode comply with the limit.

4.7 Peak Output Power**VERDICT: PASS****4.7.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(1)
☐	Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
☐	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels

4.7.2 Test Setup

4.7.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		7.8	Evaluation of frequency-hopping device parameters
	☒	ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

4.7.4 Test Data

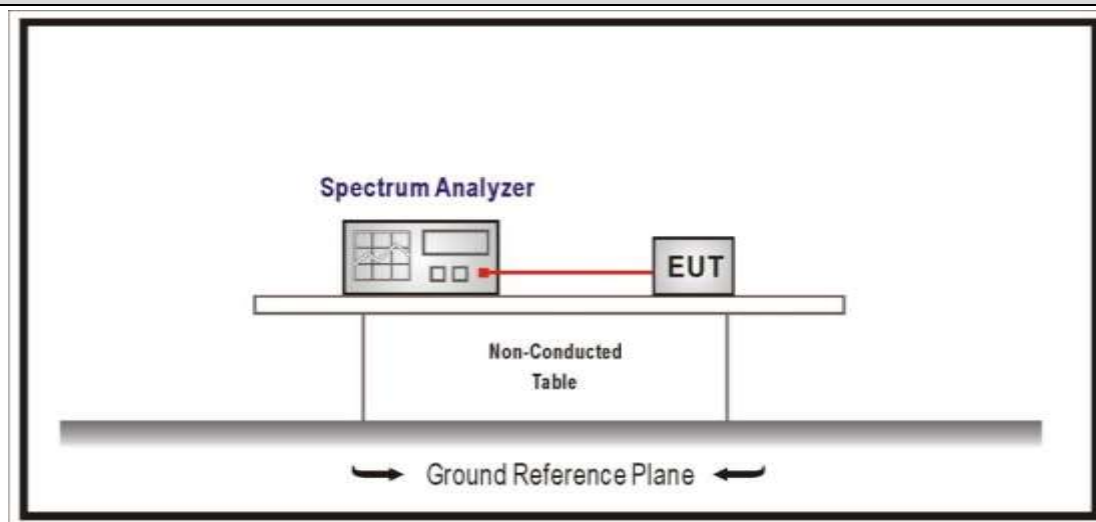
Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	Result
Mode 1	00	2402	6.06	≤ 21	Pass
	39	2442	6.01	≤ 21	Pass
	78	2480	6.51	≤ 21	Pass
Mode 2	00	2402	5.36	≤ 21	Pass
	39	2442	5.29	≤ 21	Pass
	78	2480	5.67	≤ 21	Pass
Mode 3	00	2402	5.65	≤ 21	Pass
	39	2442	5.57	≤ 21	Pass
	78	2480	5.97	≤ 21	Pass

4.8 Emissions in non-restricted frequency band**VERDICT: PASS****4.8.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.8.2 Test Setup**4.8.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.6	Band-edge measurements for RF conducted emissions

4.8.4 Test Data

Mode	Channel	Test Frequency (MHz)	Maximum In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	00	2402	7.396	2400.000	-54.72	62.116	>20	Pass
	78	2480	6.788	2500.000	-65.85	72.638	>20	Pass
2	00	2402	2.650	2400.000	-55.41	58.060	>20	Pass
	78	2480	1.898	2500.000	-65.39	67.288	>20	Pass
3	00	2402	2.774	2400.000	-57.33	60.104	>20	Pass
	78	2480	2.012	2500.000	-66.15	68.162	>20	Pass
4	00 ~ 78	Low	8.358	2399.390	-55.52	63.878	>20	Pass
		High	7.949	2500.000	-66.28	74.229	>20	Pass
5	00 ~ 78	Low	4.949	2399.521	-53.25	58.199	>20	Pass
		High	5.369	2500.000	-66.37	71.739	>20	Pass
6	00 ~ 78	Low	4.845	2399.555	-50.16	55.005	>20	Pass
		High	2.617	2500.000	-67.69	70.307	>20	Pass

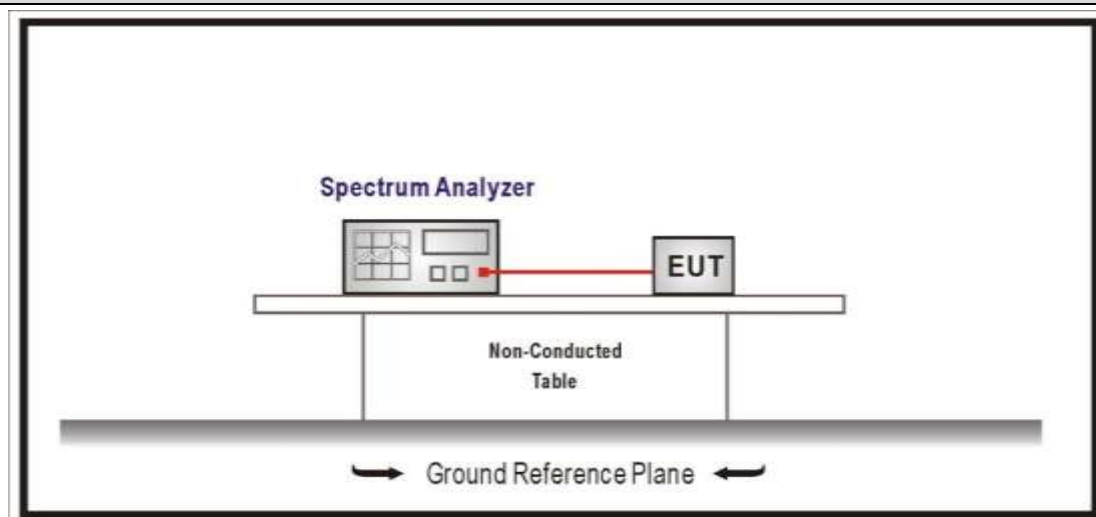
Note: The worst data as shown in below:

Mode 6 CH Low



4.9 Duty cycle**VERDICT: PASS****4.9.1 Limit**

N/A

4.9.2 Test Setup**4.9.3 Test Procedure**

References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.9.4 Test Data

Test Mode	Tx On (ms)	Tx Off (ms)	VBW (kHz)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1	N/A	N/A	0.01	N/A	100%
Mode 2	N/A	N/A	0.01	N/A	100%
Mode 3	N/A	N/A	0.01	N/A	100%

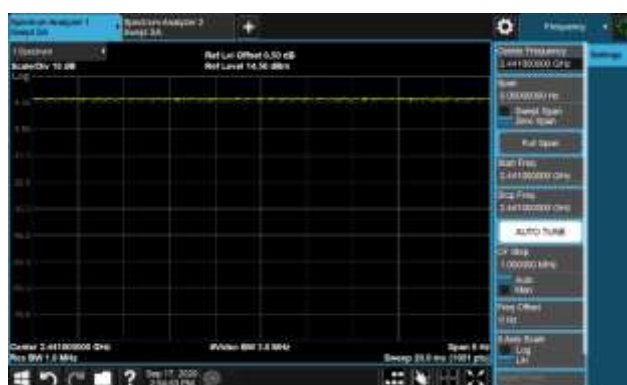
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: $VBW \geq 1/T$ will be used.

Mode 1 CH39 2441MHz



Mode 2 CH39 2441MHz



Mode 3 CH39 2441MHz



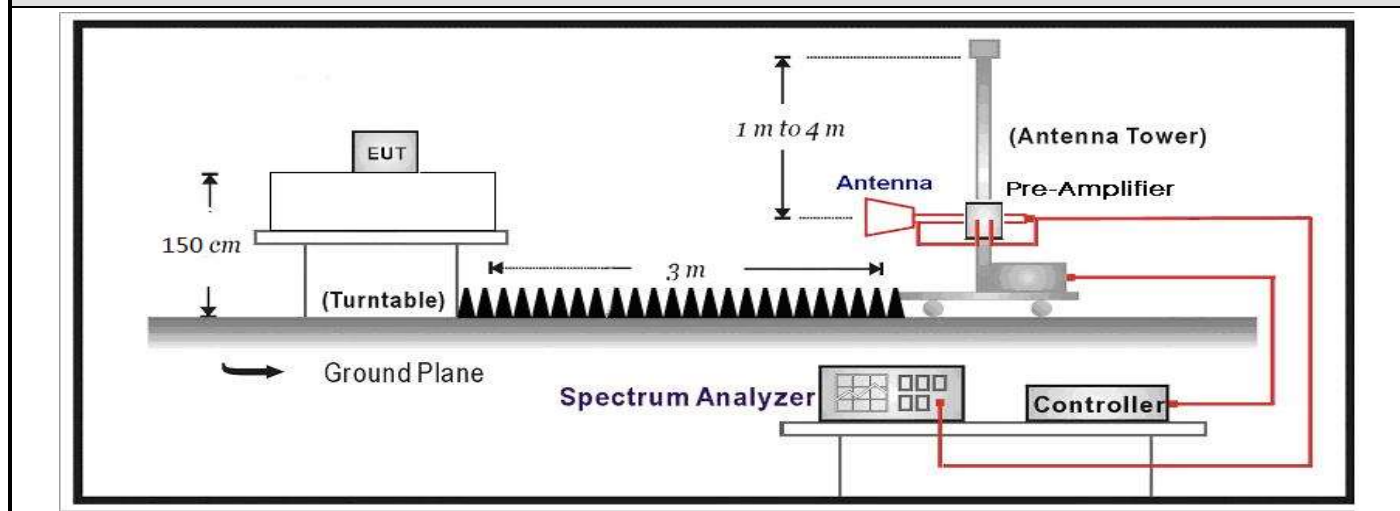
4.10 Radiated Emission Band Edge**VERDICT: PASS****4.10.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.10.2 Test Setup

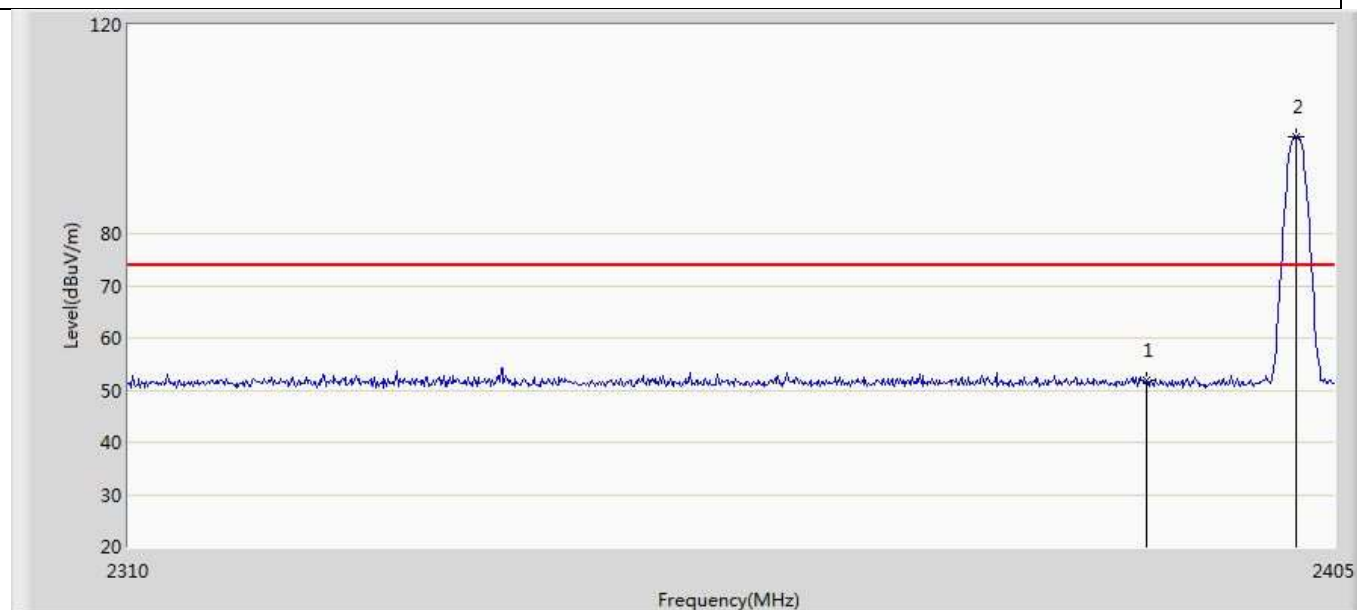
Above 1GHz Test Setup:

**4.10.3 Test Procedure**

Test Method			
	References Rule	Chapter	Description
☐	DA 00-705	N/A	duty cycle correction factor
☒	ANSI C63.10	6.10	Band-edge testing
☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
☐	ANSI C63.10	6.10.6	Marker-delta method
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

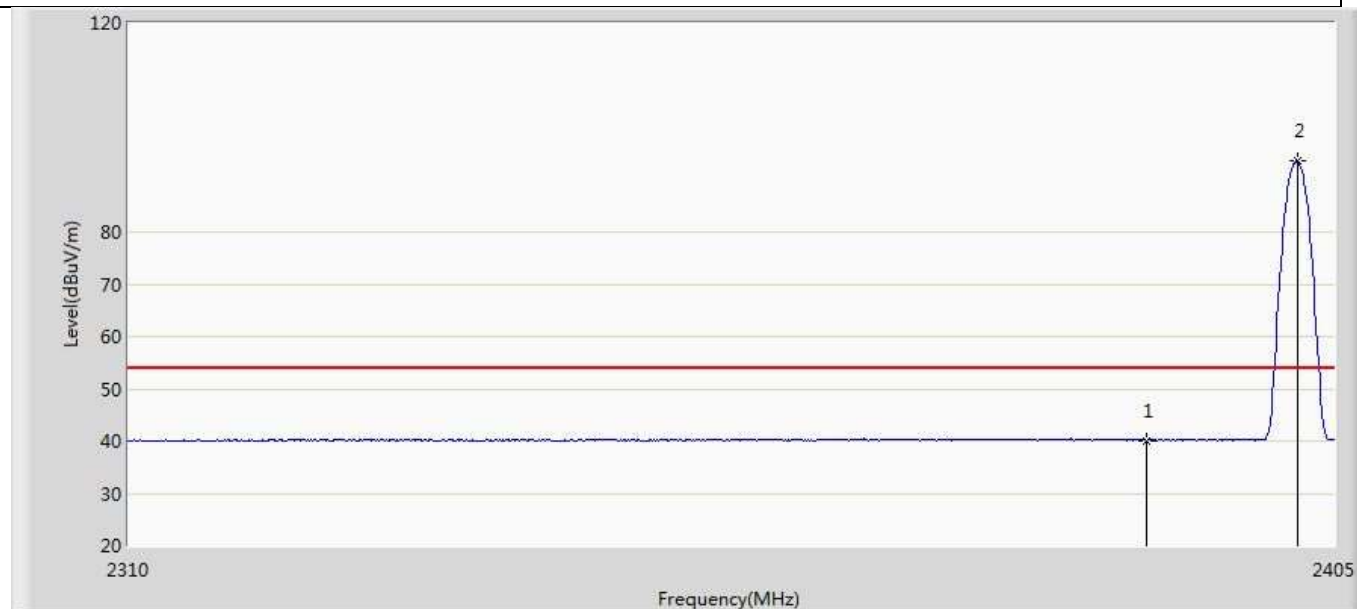
4.10.4 Test Data

Profile: 2090075R	Page No.: 1
Engineer: YULIU	
Site: AC5	Time: 2020/03/12 - 00:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2402MHz by DH5	



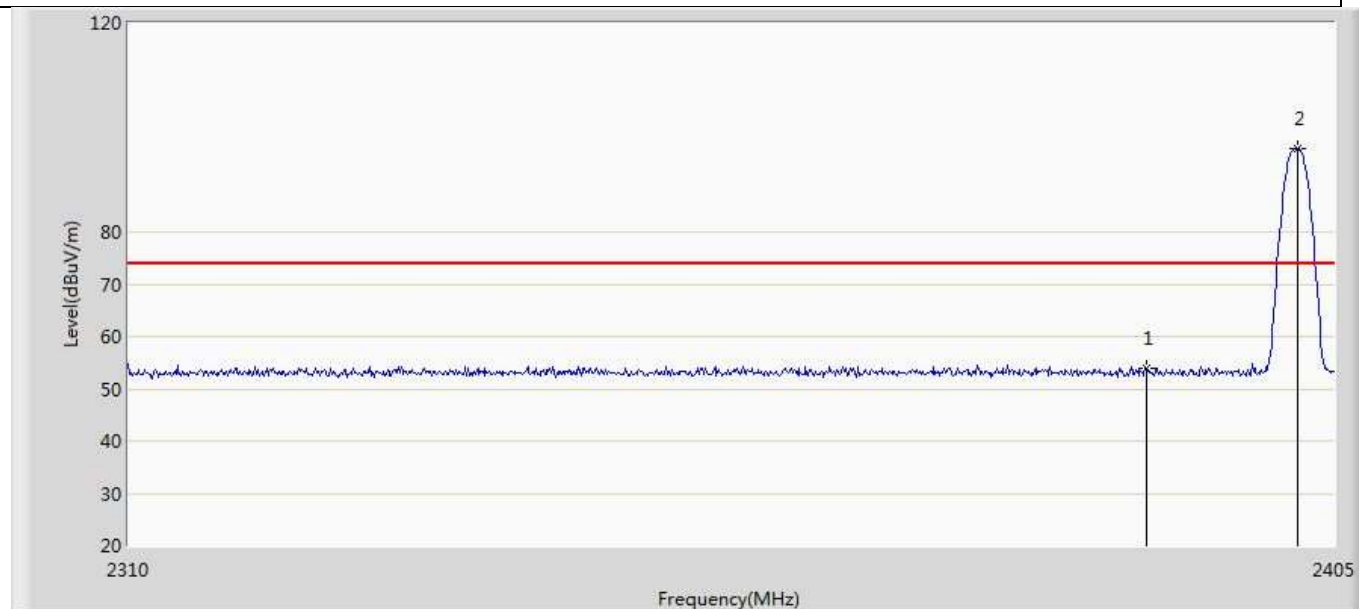
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.752	16.437	-22.248	74.000	35.315	PK
2	*	2401.960	98.542	63.230	24.542	74.000	35.312	PK

Profile: 2090075R	Page No.: 2
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2402MHz by DH5	



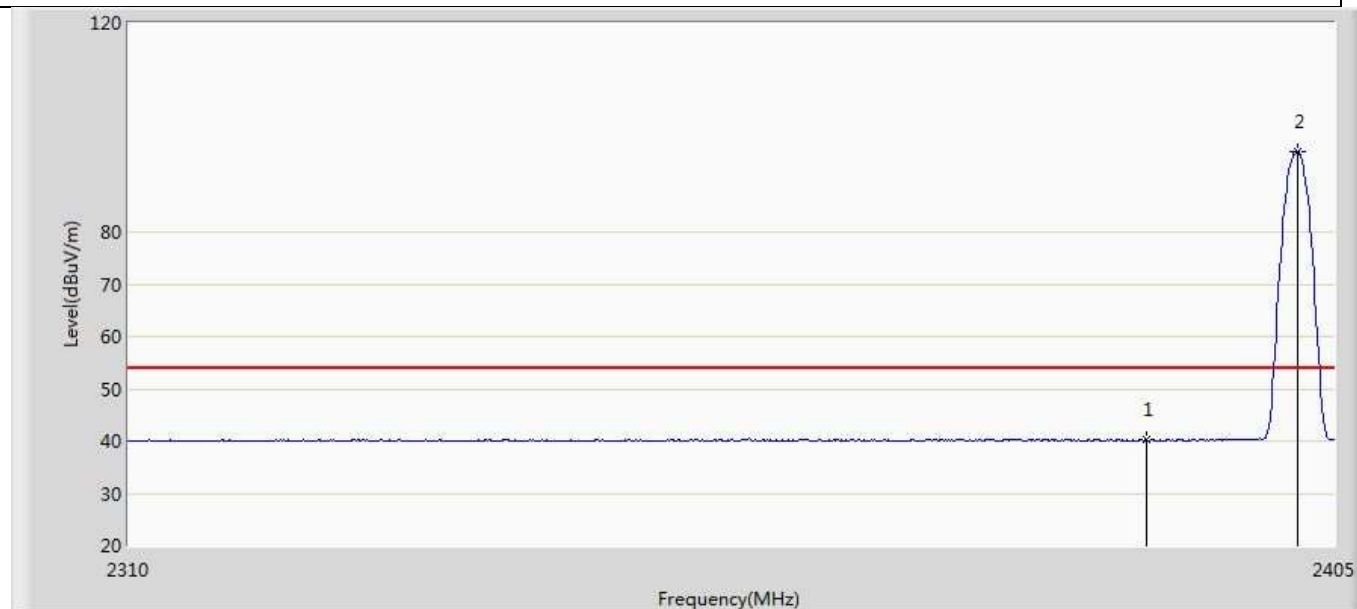
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.125	4.810	-13.875	54.000	35.315	AV
2	*	2402.055	93.552	58.240	39.552	54.000	35.312	AV

Profile: 2090075R	Page No.: 3
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2402MHz by DH5	



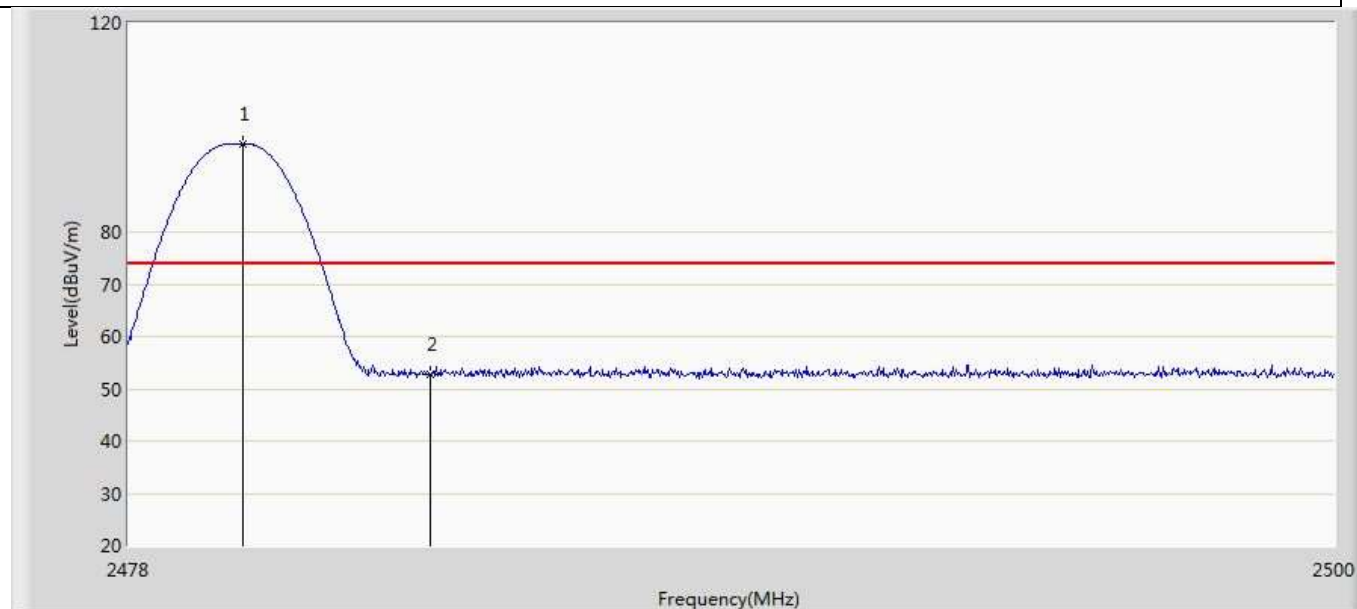
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.955	18.640	-20.045	74.000	35.315	PK
2	*	2402.055	95.847	60.535	21.847	74.000	35.312	PK

Profile: 2090075R	Page No.: 4
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2402MHz by DH5	



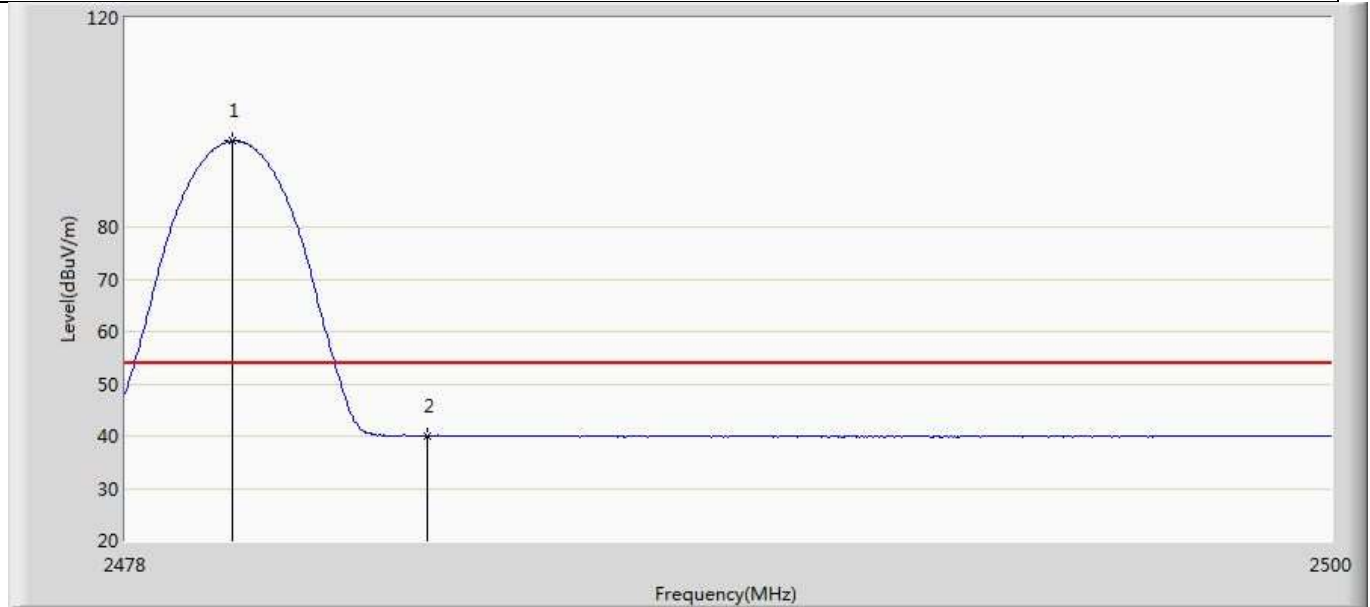
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.263	4.948	-13.737	54.000	35.315	AV
2	*	2402.055	95.402	60.090	41.402	54.000	35.312	AV

Profile: 2090075R	Page No.: 5
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2480MHz by DH5	



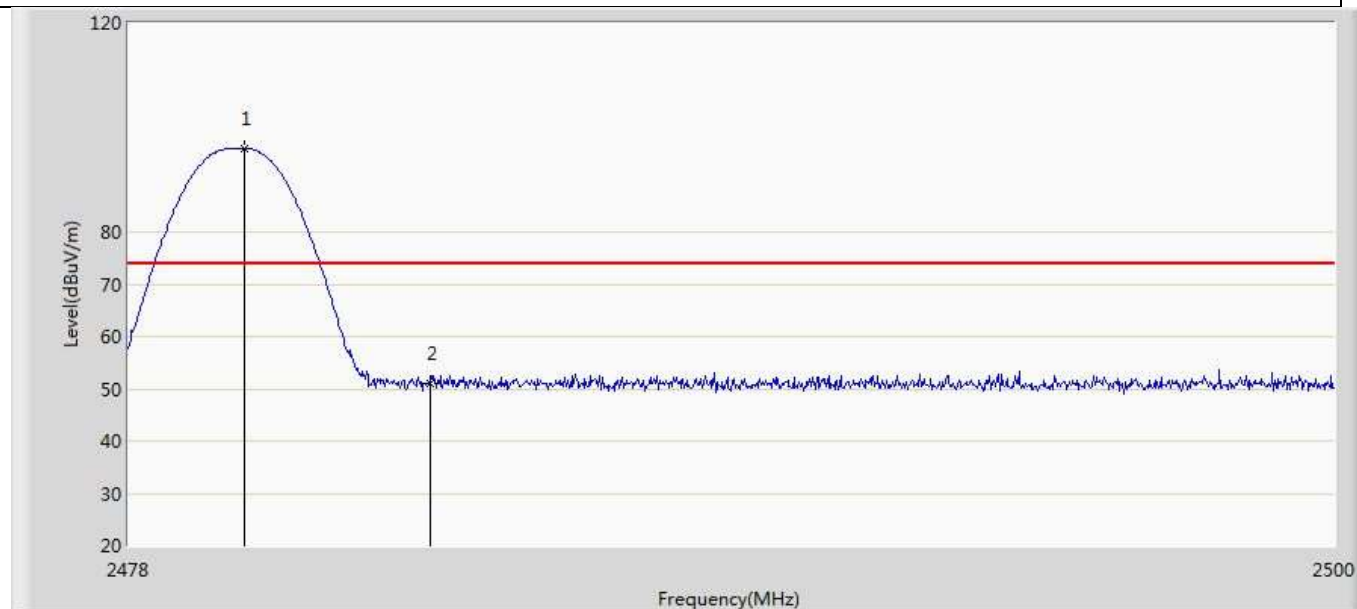
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.090	96.868	61.569	22.868	74.000	35.299	PK
2		2483.500	52.725	17.427	-21.275	74.000	35.297	PK

Profile: 2090075R	Page No.: 6
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2480MHz by DH5	



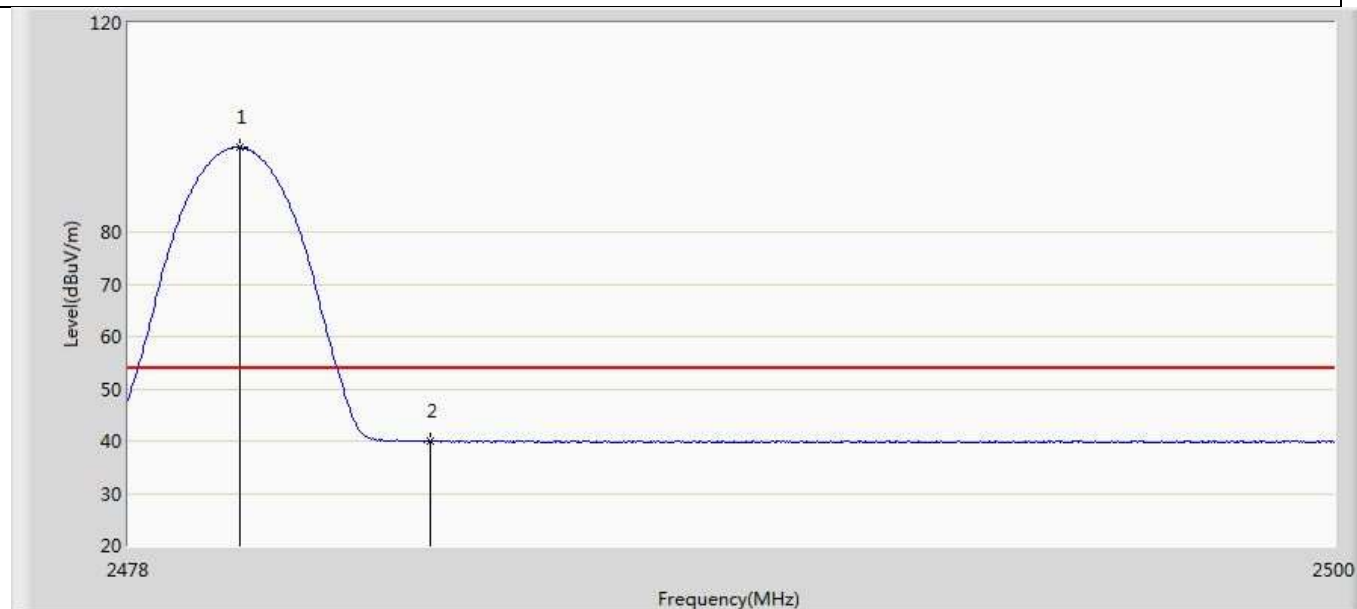
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.958	96.428	61.129	42.428	54.000	35.299	AV
2		2483.500	40.028	4.730	-13.972	54.000	35.297	AV

Profile: 2090075R	Page No.: 7
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2480MHz by DH5	



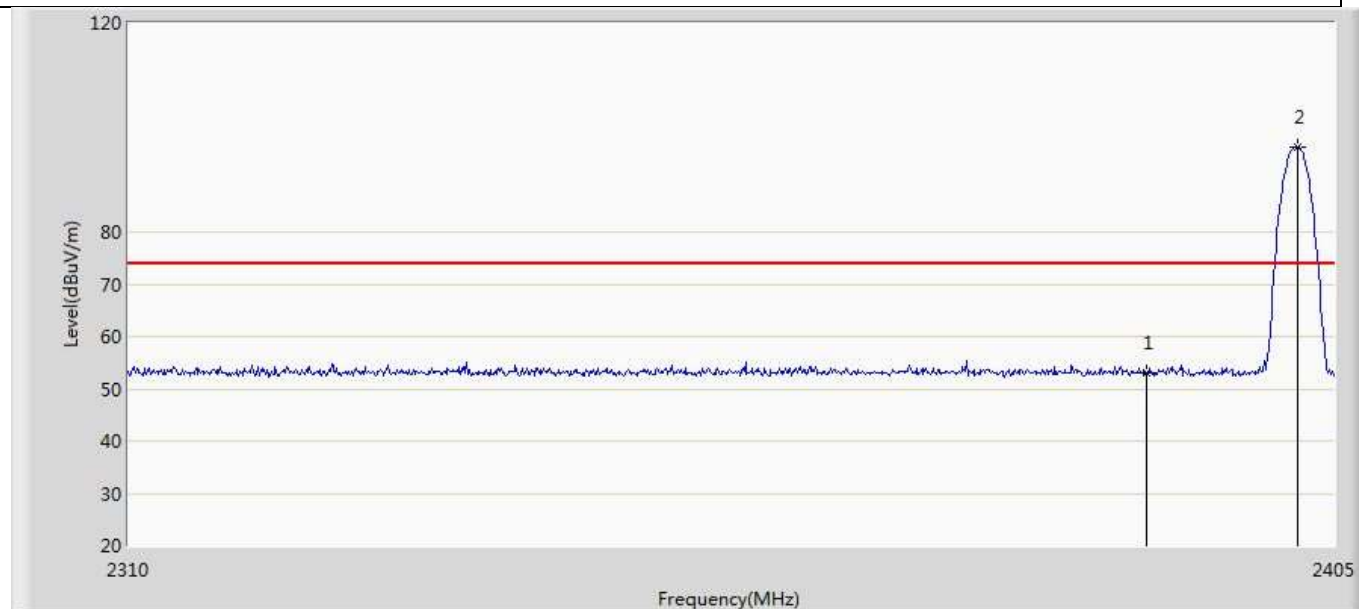
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.112	95.964	60.665	21.964	74.000	35.299	PK
2		2483.500	51.155	15.857	-22.845	74.000	35.297	PK

Profile: 2090075R	Page No.: 8
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 1:Transmit at 2480MHz by DH5	



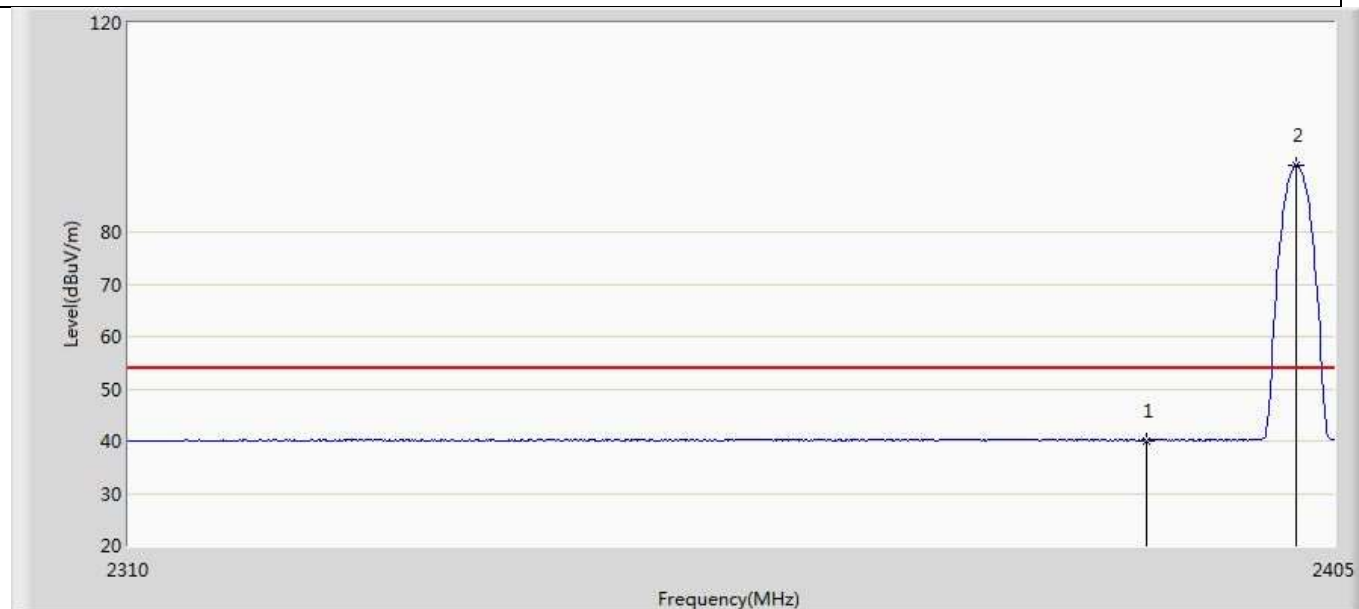
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	96.169	60.870	42.169	54.000	35.299	AV
2		2483.500	39.936	4.638	-14.064	54.000	35.297	AV

Profile: 2090075R	Page No.: 9
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2402MHz by 2DH5	



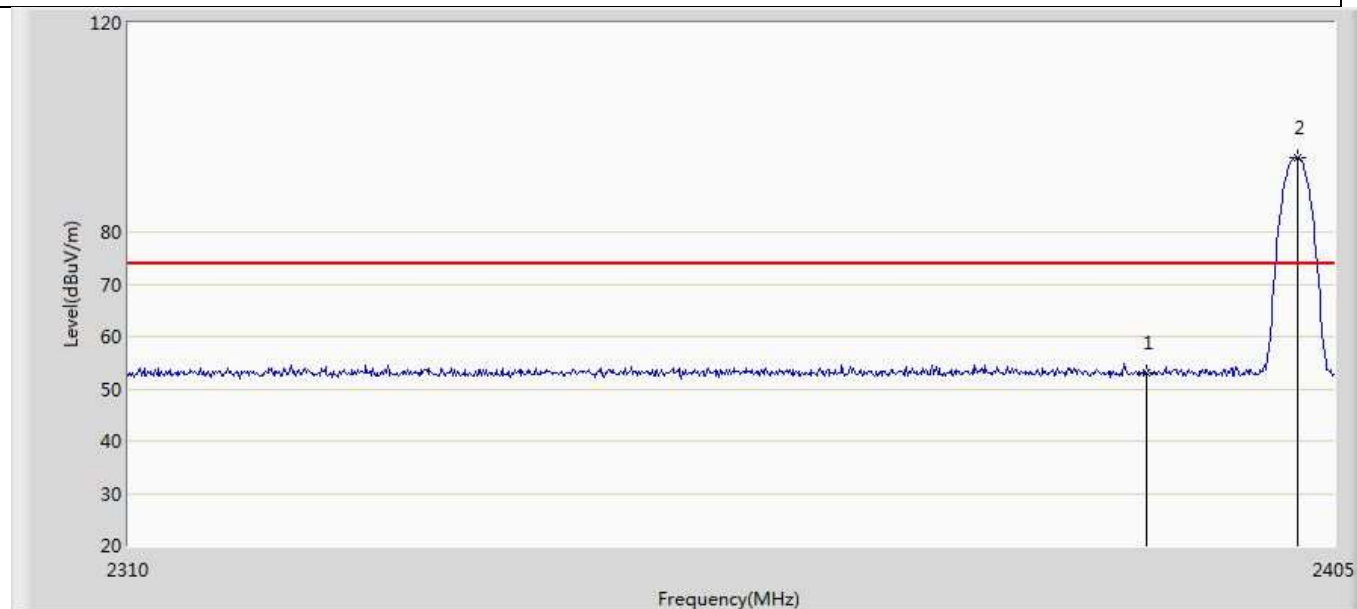
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.154	17.839	-20.846	74.000	35.315	PK
2	*	2402.055	96.286	60.974	22.286	74.000	35.312	PK

Profile: 2090075R	Page No.: 10
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2402MHz by 2DH5	



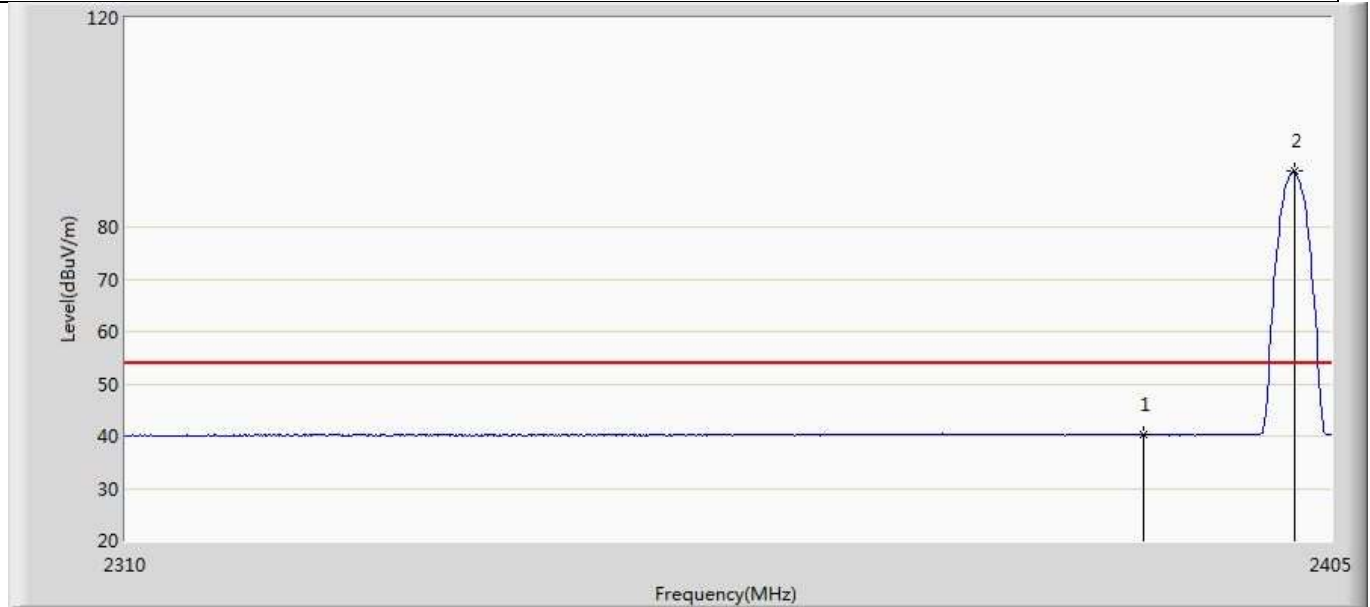
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.136	4.821	-13.864	54.000	35.315	AV
2	*	2401.960	92.879	57.567	38.879	54.000	35.312	AV

Profile: 2090075R	Page No.: 11
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2402MHz by 2DH5	



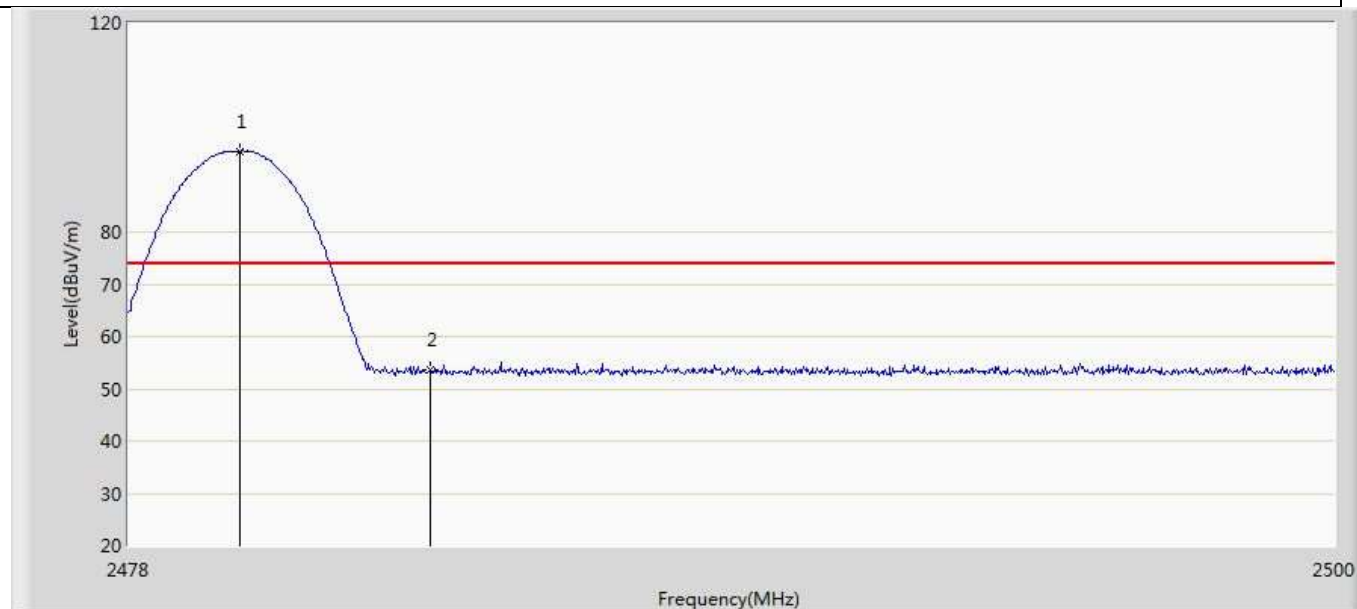
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.929	17.614	-21.071	74.000	35.315	PK
2	*	2402.055	94.165	58.853	20.165	74.000	35.312	PK

Profile: 2090075R	Page No.: 12
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2402MHz by 2DH5	



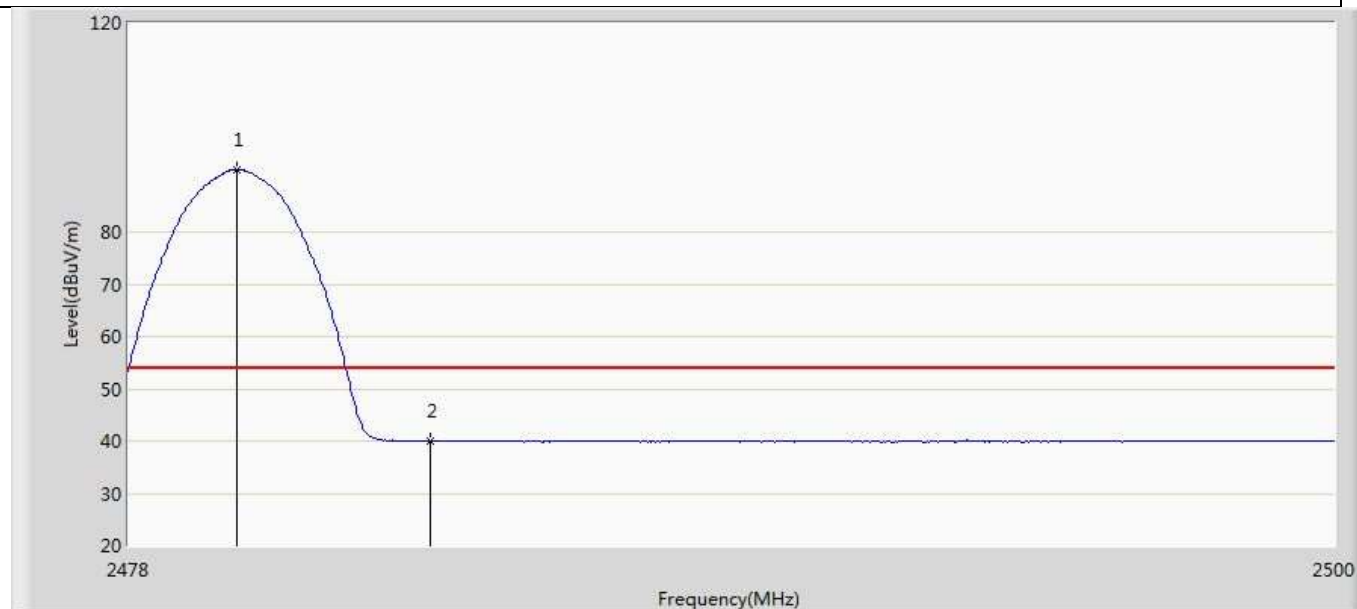
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.216	4.901	-13.784	54.000	35.315	AV
2	*	2402.055	90.648	55.336	36.648	54.000	35.312	AV

Profile: 2090075R	Page No.: 13
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 20:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2480MHz by 2DH5	



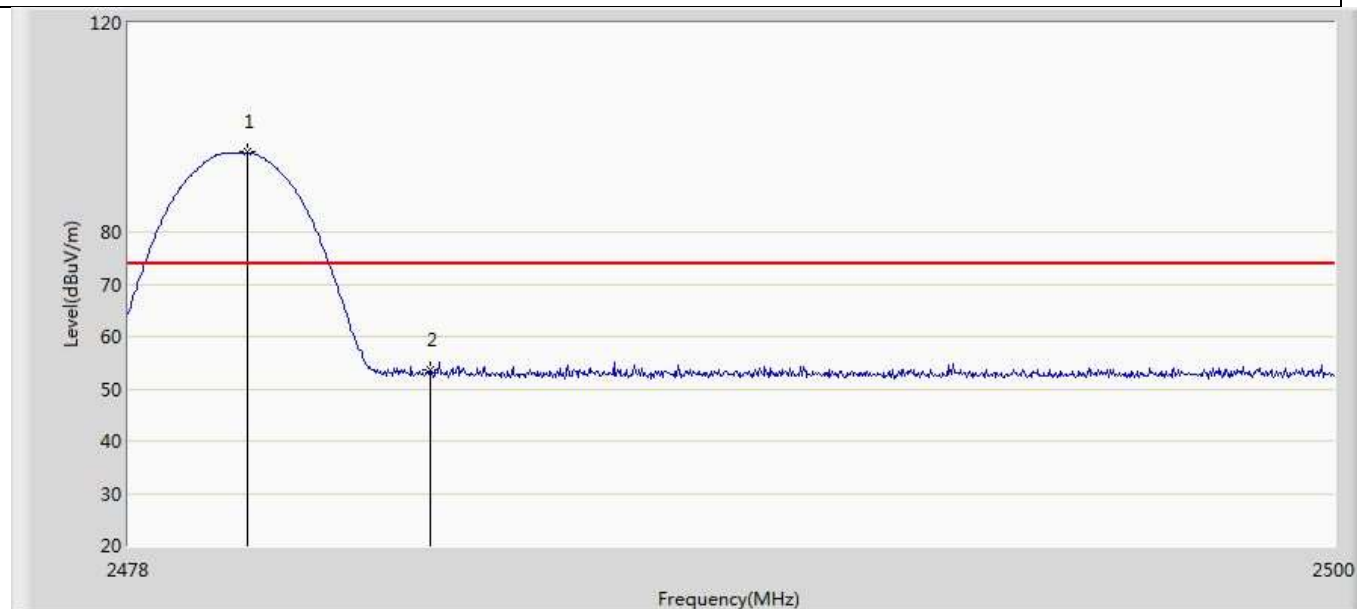
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	95.371	60.072	21.371	74.000	35.299	PK
2		2483.500	53.565	18.267	-20.435	74.000	35.297	PK

Profile: 2090075R	Page No.: 14
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2480MHz by 2DH5	



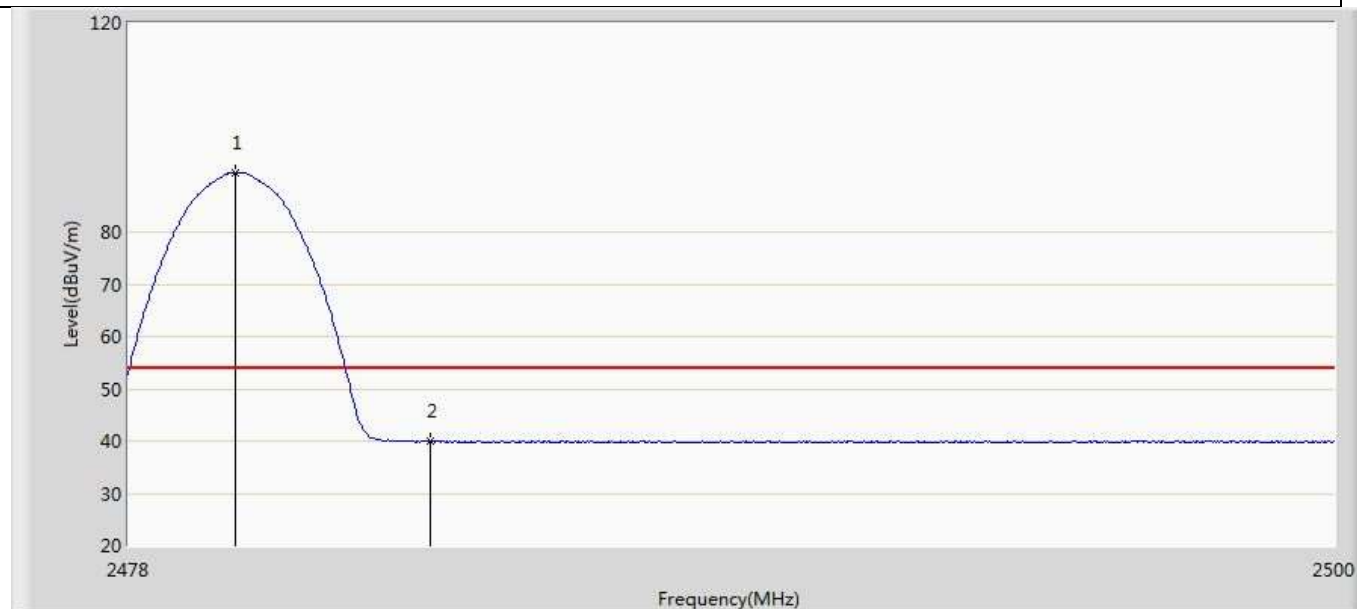
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.980	91.904	56.605	37.904	54.000	35.299	AV
2		2483.500	39.945	4.647	-14.055	54.000	35.297	AV

Profile: 2090075R	Page No.: 15
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2480MHz by 2DH5	



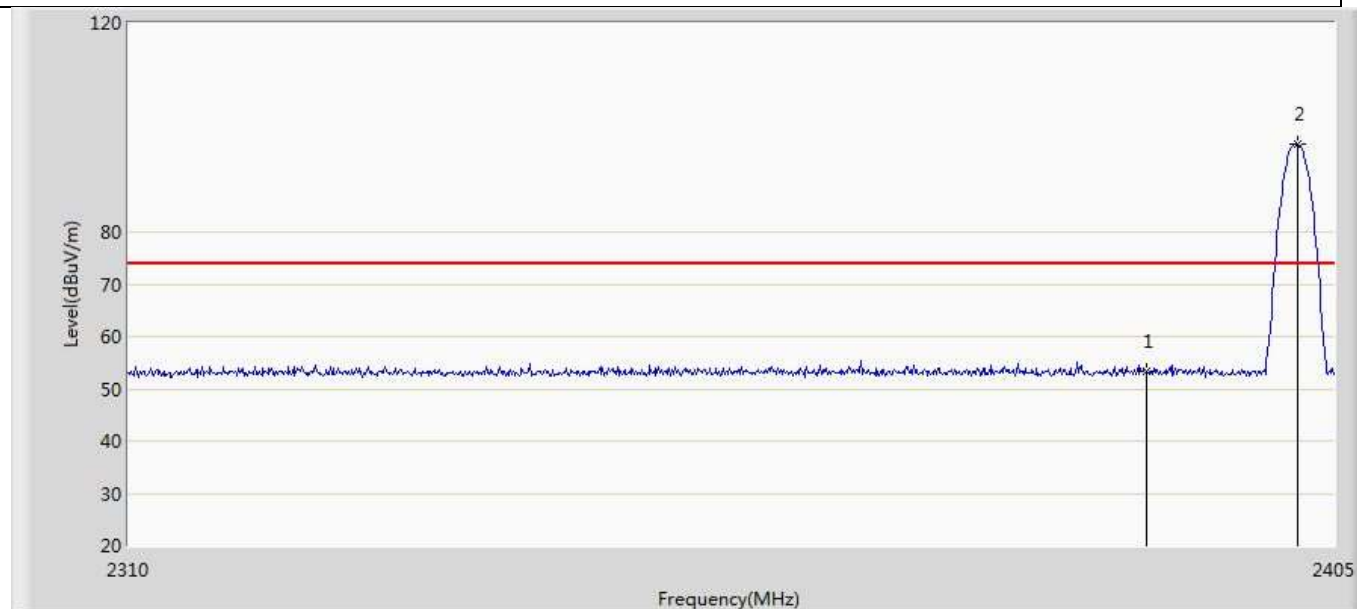
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.156	95.240	59.941	21.240	74.000	35.299	PK
2		2483.500	53.594	18.296	-20.406	74.000	35.297	PK

Profile: 2090075R	Page No.: 16
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 2:Transmit at 2480MHz by 2DH5	



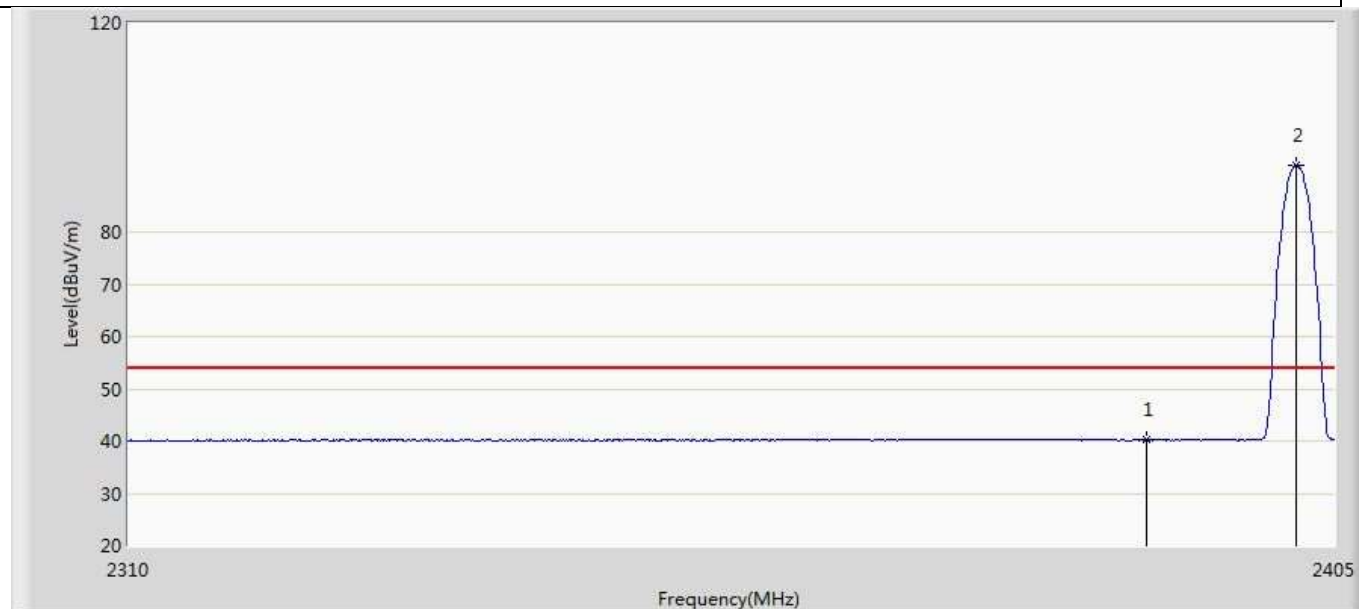
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.958	91.429	56.130	37.429	54.000	35.299	AV
2		2483.500	39.931	4.633	-14.069	54.000	35.297	AV

Profile: 2090075R	Page No.: 17
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2402MHz by 3DH5	



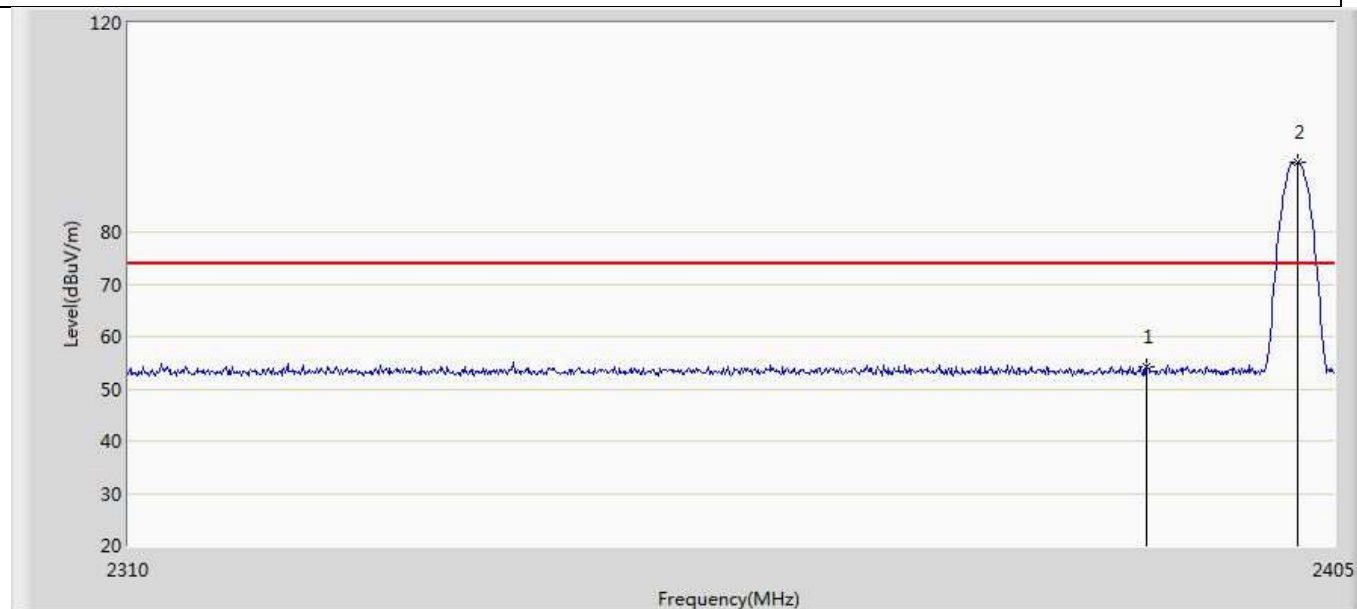
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.412	18.097	-20.588	74.000	35.315	PK
2	*	2402.055	96.752	61.440	22.752	74.000	35.312	PK

Profile: 2090075R	Page No.: 18
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2402MHz by 3DH5	



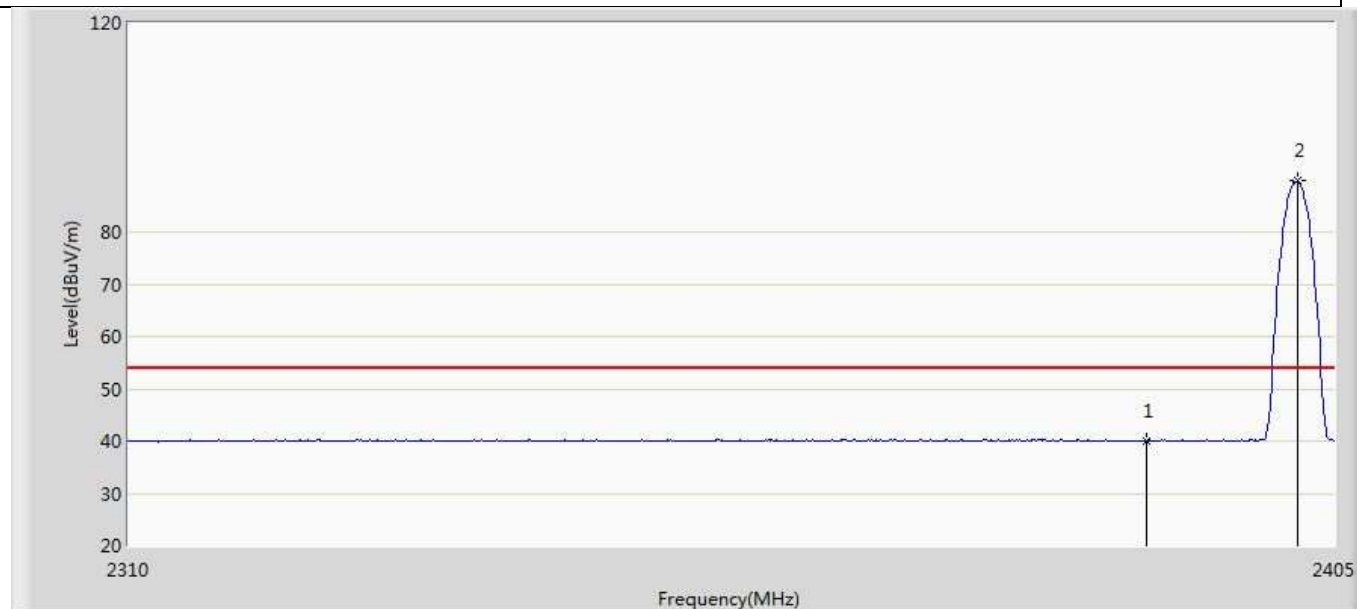
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.206	4.891	-13.794	54.000	35.315	AV
2	*	2401.960	92.856	57.544	38.856	54.000	35.312	AV

Profile: 2090075R	Page No.: 19
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2402MHz by 3DH5	



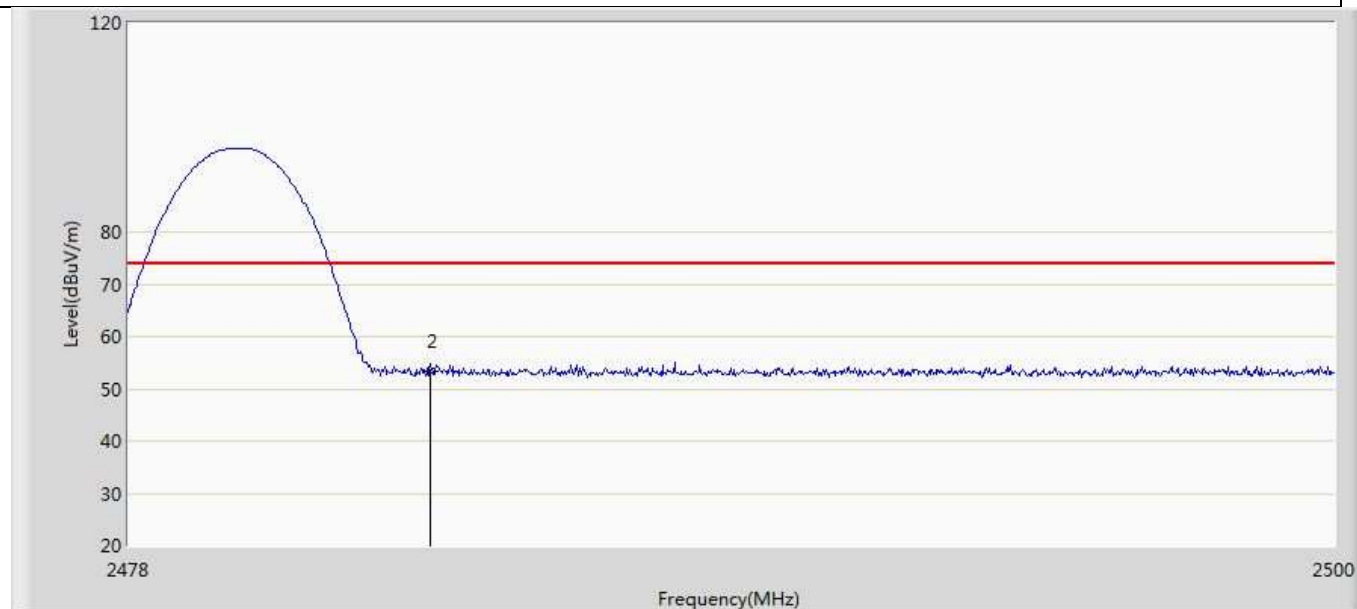
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	54.346	19.031	-19.654	74.000	35.315	PK
2	*	2402.055	93.456	58.144	19.456	74.000	35.312	PK

Profile: 2090075R	Page No.: 20
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2402MHz by 3DH5	



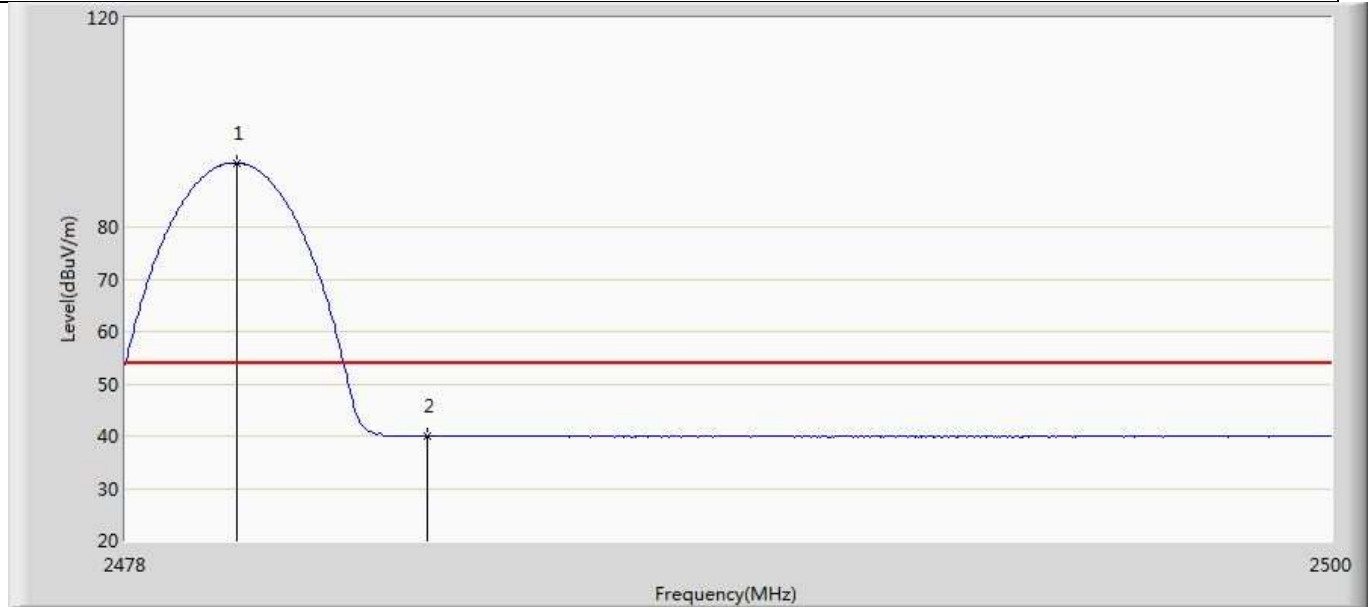
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.061	4.746	-13.939	54.000	35.315	AV
2	*	2402.055	89.714	54.402	35.714	54.000	35.312	AV

Profile: 2090075R	Page No.: 21
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2480MHz by 3DH5	



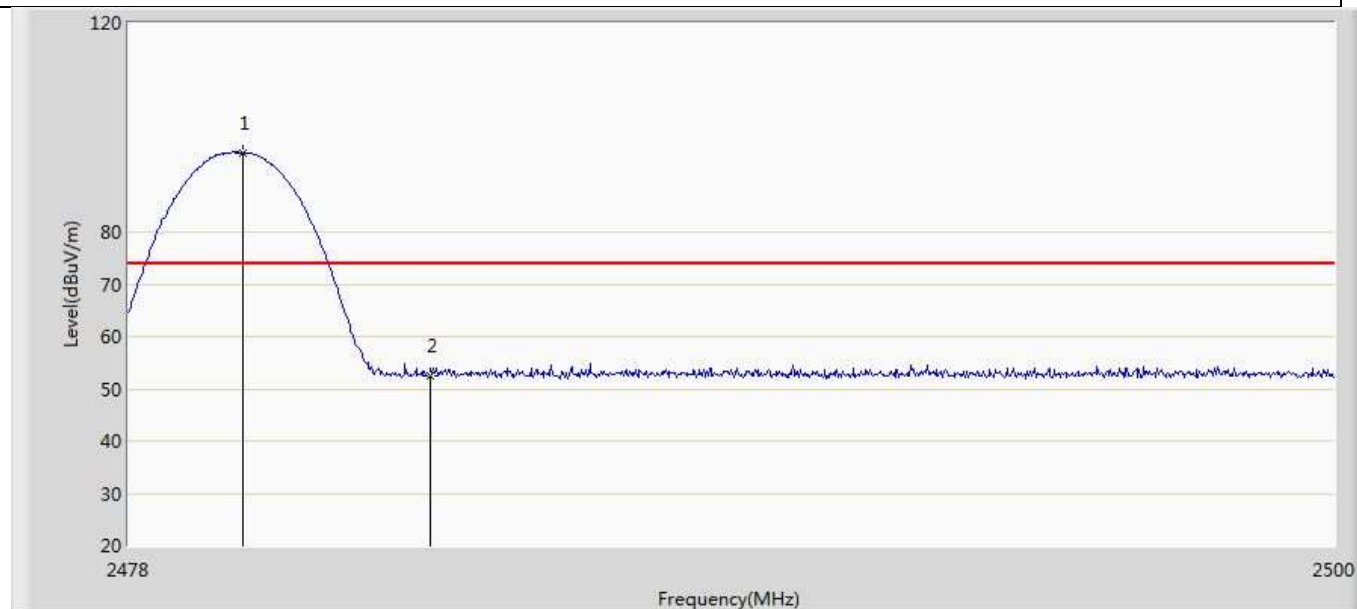
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2402.055	89.714	54.402	15.714	74.000	35.312	PK
2		2483.500	53.251	17.953	-20.749	74.000	35.297	PK

Profile: 2090075R	Page No.: 22
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2480MHz by 3DH5	



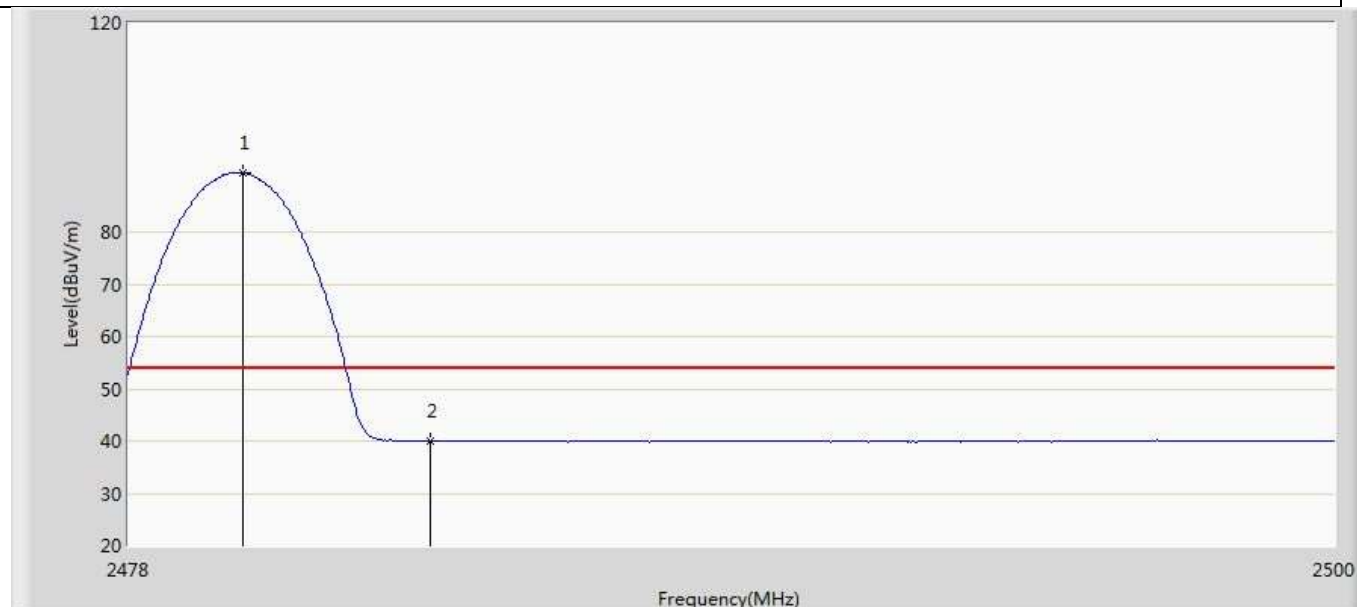
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	92.231	56.932	38.231	54.000	35.299	AV
2		2483.500	39.950	4.652	-14.050	54.000	35.297	AV

Profile: 2090075R	Page No.: 23
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.090	95.112	59.813	21.112	74.000	35.299	PK
2		2483.500	52.345	17.047	-21.655	74.000	35.297	PK

Profile: 2090075R	Page No.: 24
Engineer: YULIU	
Site: AC5	Time: 2020/04/28 - 21:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 8960i	Power: Battery
Note: Mode 3:Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.090	91.305	56.006	37.305	54.000	35.299	AV
2		2483.500	40.027	4.729	-13.973	54.000	35.297	AV

Note:

1. Measured Level = Reading Level + Factor.
2. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
3. As the radiated emission was performed, so conducted emission was not tested.

4.11 Antenna Requirement**VERDICT: PASS****4.11.1 Limit:**

Standard	FCC Part 15 Subpart C Paragraph 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	

4.11.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☒ | The use of a permanently attached antenna |
| ☐ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

_____ The End _____