



FCC / IC RF TEST REPORT

Applicant : Mitac International Corporation

Address : Building B, No.209, Sec.1, Nan Gang Rd., Nan Gang Dist., Taipei, Taiwan, R.O.C.

Manufacturer : Mitac Computer (Kunshan) Co., Ltd.

Address : No.269, 2nd Avenue, District A, Comprehensive Free Trade Zone, Kunshan, Jiangsu, P.R.C

Equipment : Portable Navigation Device

Model No. : N538-5000

Brand : Mitac' Mio' Navman' Magellan'

FCC ID : P4Q-N538-5000

IC ID : 2420C-N538

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of **CerpPASS Technology (Suzhou) Corp.**, the test report shall not be reproduced except in full.

I **HEREBY CERTIFY THAT :**

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.10 – 2013** and the energy emitted by this equipment was **passed**.
CISPR PUB. 22 and FCC Part 15 in both radiated and conducted emission class B limits. Testing was carried out on Aug.12,2016~ Sep.13,2016 at **CerpPASS Technology (Suzhou) Co., Ltd.**

Approved by:

Miro Chueh
EMC/RF Manager

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory

<input type="checkbox"/>	NVLAP LAB Code:	200954-0
	TAF LAB Code:	1439

CerpPASS Technology (SuZhou) Co., Ltd.

<input checked="" type="checkbox"/>	NVLAP LAB Code:	200814-0
	CNAS LAB Code:	L5515



Contents

1. Report of Measurements and Examinations	5
2. General Info.....	6
2.1 Description of EUT	6
2.2 Description of wireless module	6
2.3 Description of Antenna.....	6
2.4 Carrier Frequency of Channels.....	7
2.5 The Worst Case Configuration.....	7
2.6 EUT Exercise Software.....	8
2.7 Support equipment.....	9
3. General Information of Test Site	10
3.1 Information of Test Site	10
3.2 Measuring Equipment.....	10
3.3 Measurement Uncertainty.....	11
4. AC Conducted Emission Measurement	13
4.1 Test Limit.....	13
4.2 Test Standard	13
4.3 Test Procedures	13
4.4 Test Setup Layout	14
4.5 Test Result	15
5. Radiated Emission Measurement	17
5.1 Test Limit.....	17
5.2 Test Standard	17
5.3 Test Procedures.....	18
5.4 Test Setup Layout.....	19
5.5 Test Result	21
6. 20dB Bandwidth Measurement	41
6.1 Test Limit.....	41
6.2 Test Standard	41
6.3 Test Procedures	41
6.4 Test Setup Layout	41
6.5 Test Result	42
7. Channel Carrier Frequencies Separation Measurement	45
7.1 Test Limit.....	45
7.2 Test Standard	45
7.3 Test Procedures	45
7.4 Test Setup Layout	45
7.5 Test Result	46
8. Dwell Time Measurement.....	49
8.1 Test Limit.....	49
8.2 Test Standard	49
8.3 Test Procedures	49
8.4 Test Setup Layout	49
8.5 Test Result	50



9. Number of Hopping Channels Measurement 53
9.1 Test Limit 53
9.2 Test Standard 53
9.3 Test Procedures 53
9.4 Test Setup Layout 53
9.5 Test Result 54
10. Peak Output Power Measurement 57
10.1 Test Limit 57
10.2 Test Standard 57
10.3 Test Procedures 57
10.4 Test Setup Layout 57
10.5 Test Result 58
11. Band-edge Compliance & Conducted Spurious Emissions Measurement 61
11.1 Test Limit 61
11.2 Test Standard 61
11.3 Test Procedures 62
11.4 Test Setup Layout 63
11.5 Test Result 64
12. Radiated Emission Band Edge Measurement 70
12.1 Test Limit 70
12.2 Test Standard 70
12.3 Test Procedure 70
12.4 Test Setup Layout 71
12.5 Test Result 72



History of this Test Report

Report No.	Version	Issue Date	Description
SEFB1608030	Rev 01	Sep.13, 2016	Original.



1. Report of Measurements and Examinations

Reference STD		Description of Test	Compliance results
1	FCC Rules §15.207(a); RSS-GEN Section8.8	AC Conducted Emission	PASS
2	FCC Rules §15.209(a) RSS-247 Section 5.5	Radiated Emission	PASS
3	FCC Rules §15.247(a)(1); RSS-247 Section5.1(1)	20dB Bandwidth	PASS
4	FCC Rules §15.247(a)(1); RSS-247 Section5.1(2)	Channel Carrier Frequencies Separation	PASS
5	FCC Rules§15.247(a)(1); RSS-247 Section5.1(3)	Dwell Time	PASS
6	FCC Rules§15.247(b); RSS-247 Section5.1(2)	Number of Hopping Channels	PASS
7	FCC Rules §15.247(b); RSS-247 Section5.1(2)	Peak Output Power	PASS
8	FCC Rules §15.247(d)	Band-edge Compliance & Conducted Spurious Emissions	PASS
9	FCC Rules §15.247(d); RSS-247 Section 5.5	Radiated Emission Band Edges	PASS



2. General Info

2.1 Description of EUT

Product name	Portable Navigation Device		
Model No.	N538-5000		
Power supply	CA-051-00U-09		
	Input:	12/24V $\overline{\text{---}}$ 1A	
	Output:	5V $\overline{\text{---}}$ 1A	
Power supply cable	Non-Shielded, 1.3m		

2.2 Description of wireless module

Wireless Module	MT6622
Bluetooth Specification	V2.1+EDR
Modulation Type	GFSK, Pi/4 DQPSK, 8DPSK
Frequency Range	2402 - 2480 MHz
Channel Number	79
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Channel Separation	1MHz

Note: For more details, please refer to the EUT User manual.

2.3 Description of Antenna

Antenna	Manufacturer	Model No.	Peak Gain
Chip Antenna	INPAQ TECHNOLOGY CO., LTD.	ACA-5036-A2-CC-S	3.0dBi for2.4 GHz ~2.5 GHz



2.4 Carrier Frequency of Channels

Bluetooth Working Frequency of Each Channel:							
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

2.5 The Worst Case Configuration

Data rate Configuration:

Test Mode	
DH5	✓
2DH5	✓
3DH5	✓



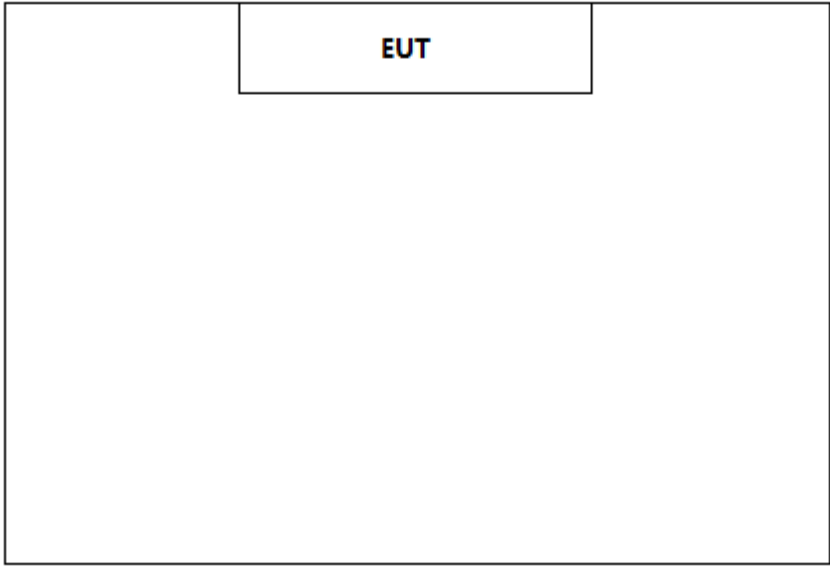
2.6 EUT Exercise Software

1	Turn on the power of equipment.
2	Run 'BT Test', input RF test command and set the test mode and channel, then press OK to start continue transmit or receive.



2.7 Support equipment

Product	Manufacturer	Model No.	Serial No.	Power Cord
N/A	N/A	N/A	N/A	N/A

Connection Diagram	
	
Signal Cable Type	Signal cable Description
A N/A	N/A



3. General Information of Test Site

3.1 Information of Test Site

Test Site	CerpPASS Technology(Suzhou) Co., Ltd.
Test Site Location	No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China
NVLAP LAB Code	200814-0
FCC Registration Number	916572, 331395
IC Registration Number	7290A-1, 7290A-2
VCCI Registration Number	T-1945 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz

3.2 Measuring Equipment

RF Conducted Measuring Equipment-AC104					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Peak Power Sensor	Boonton	55006	9778	2016.06.08	2017.06.07
Series Power Meter	ANRITSU	ML2495A	1224005	2016.03.27	2017.03.26
Spectrum Analyzer	N9010A	Agilent	MY53400169	2015.11.11	2016.11.11
Spectrum Analyzer	E4407B	Agilent	MY44211883	2015.10.15	2016.10.14
Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-003	2016.03.31	2017.03.30

AC Conducted Emission Measuring Equipment-SR101					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A
EMI Test Receiver	R&S	ESCI	100565	2016.03.26	2017.03.25
Artificial-Mains-Network	R&S	ESH2-Z5	100182	2016.08.31	2017.08.30
Line Impedance Stabilization Network	FCC	FCC-LISN-50-200-2-02	112087	2016.08.31	2017.08.30
Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28



Radiated Measuring Equipment-AC102					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Loop Antenna	R&S	HFH2-Z2	100150	2016.08.31	2017.08.30
Bilog Antenna	Sunol Science	JB1	A072414-1	2016.04.16	2017.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2016.07.16	2017.07.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-348	2016.05.07	2017.05.06
Preamplifier	HP	8447F	3113A05582	2016.03.26	2017.03.25
Preamplifier	EMCI	EMC-051835	980085	2016.09.06	2017.09.05
Preamplifier	COM-POWER	PA-840	711885	2016.03.26	2017.03.25
EMI Test Receiver	R&S	ESCI-3	101183	2016.06.29	2017.06.28
Spectrum Analyzer	N9010A	Agilent	MY53400169	2015.11.11	2016.11.11
Spectrum Analyzer	R&S	FS040	100324	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2016.03.31	2017.03.30

3.3 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated 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)).

RF Conducted Measurement

Test Item	Uncertainty	Limit
Radio Frequency	$\pm 8.7 \times 10^{-7}$	$\pm 1 \times 10^{-5}$
RF output power, conducted	$\pm 0.63\text{dB}$	$\pm 1.5\text{dB}$
Power density, conducted	$\pm 1.21\text{dB}$	$\pm 3\text{dB}$
Unwanted emissions, conducted	30-1000MHz	$\pm 0.51\text{dB}$
	1-12.75GHz	$\pm 0.67\text{dB}$
All emissions, radiated	30-1000MHz	$\pm 2.28\text{dB}$
	1-12.75GHz	$\pm 2.59\text{dB}$
Temperature	$\pm 0.8^\circ\text{C}$	$\pm 1^\circ\text{C}$
Humidity	$\pm 3\%$	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$	$\pm 3\%$

AC Conducted Measurement

Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	9KHz-30MHz	+/- 0.7738 dB
Conducted emissions(NEUTRAL)	9KHz-30MHz	+/- 0.7886 dB
Conducted emissions(10Mbps)	150KHz-30MHz	+/- 1.3013dB
Conducted emissions(100Mbps)	150KHz-30MHz	+/- 1.3197 dB
Conducted emissions(1000Mbps)	150KHz-30MHz	+/- 1.2987 dB

Radiated Measurement

Measurement	Polarity	Frequency	Uncertainty
Radiated emissions	Horizontal	below 1GHz	+/- 3.8936 dB
	Vertical	below 1GHz	+/- 3.8928 dB
	Horizontal	above 1GHz	+/- 5.18858dB
	Vertical	above 1GHz	+/- 5.18928 dB



4. AC Conducted Emission Measurement

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013 Section 6.2. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 6.2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Standard

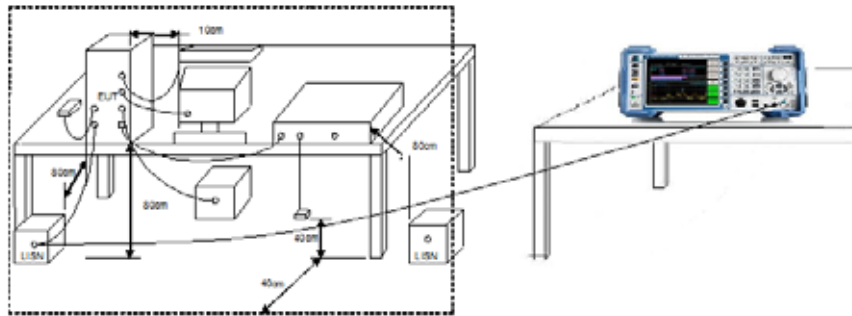
ANSI C63.10-2013 Section 6.2.

4.3 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



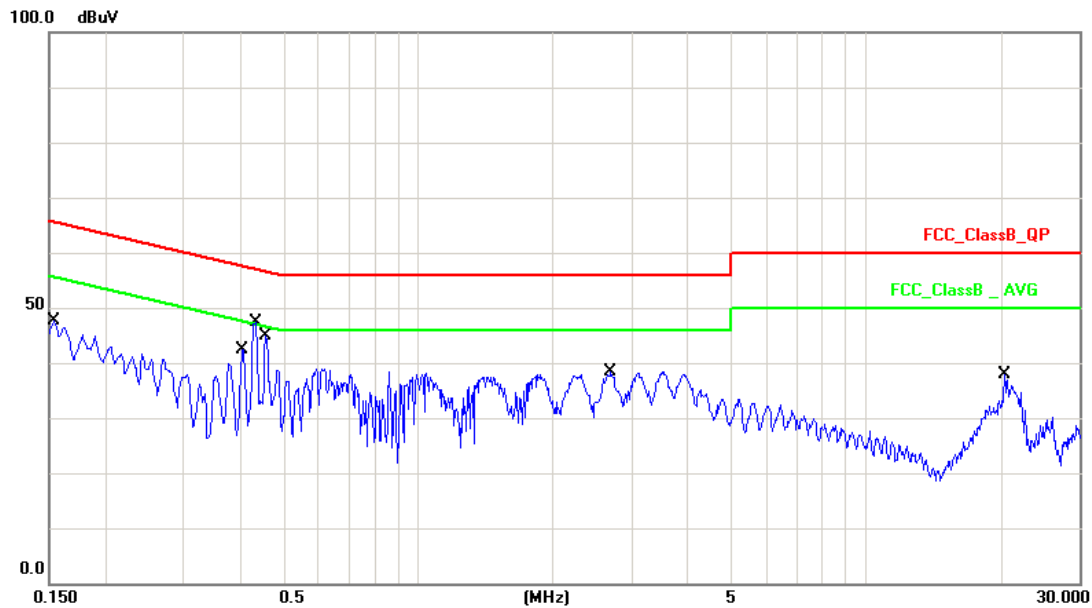
4.4 Test Setup Layout





4.5 Test Result

Test Mode :	Mode 1: Normal Operation with BT on		
AC Power :	DC 12V	Phase:	LINE
Temperature :	26°C	Humidity:	60%
Pressure(mbar) :	1002	Date:	2016/08/15

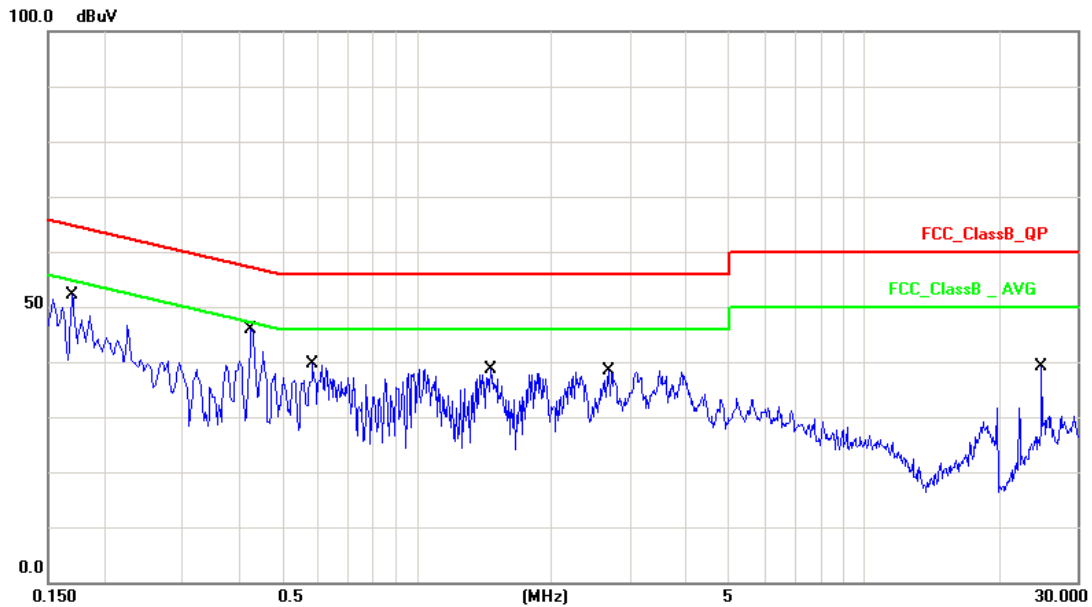


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.13	33.15	43.28	65.78	-22.50	QP
2	0.1539	10.13	19.00	29.13	55.78	-26.65	AVG
3	0.4060	10.15	25.95	36.10	57.73	-21.63	QP
4	0.4060	10.15	17.74	27.89	47.73	-19.84	AVG
5	0.4340	10.15	27.55	37.70	57.18	-19.48	QP
6	0.4340	10.15	19.18	29.33	47.18	-17.85	AVG
7	0.4580	10.16	28.81	38.97	56.73	-17.76	QP
8	0.4580	10.16	20.28	30.44	46.73	-16.29	AVG
9	2.7060	10.18	23.11	33.29	56.00	-22.71	QP
10	2.7060	10.18	12.14	22.32	46.00	-23.68	AVG
11	20.4260	10.35	17.61	27.96	60.00	-32.04	QP
12	20.4260	10.35	10.29	20.64	50.00	-29.36	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with BT on		
AC Power :	DC 12V	Phase :	NEUTRAL
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date:	2016/08/15



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	10.13	30.82	40.95	64.96	-24.01	QP
2	0.1700	10.13	11.85	21.98	54.96	-32.98	AVG
3	0.4260	10.15	33.26	43.41	57.33	-13.92	QP
4	0.4260	10.15	25.35	35.50	47.33	-11.83	AVG
5	0.5860	10.15	25.15	35.30	56.00	-20.70	QP
6	0.5860	10.15	14.08	24.23	46.00	-21.77	AVG
7	1.4660	10.18	22.05	32.23	56.00	-23.77	QP
8	1.4660	10.18	11.41	21.59	46.00	-24.41	AVG
9	2.6940	10.19	19.48	29.67	56.00	-26.33	QP
10	2.6940	10.19	6.55	16.74	46.00	-29.26	AVG
11	24.9340	10.35	7.54	17.89	60.00	-42.11	QP
12	24.9340	10.35	1.27	11.62	50.00	-38.38	AVG

Note: Measurement Level = Reading Level + Correct Factor



5. Radiated Emission Measurement

5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (micro volts/meter)	MEASUREMENT DISTANCE (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

5.2 Test Standard

ANSI C63.10-2013 Section 6.5 & Section 6.6



5.3 Test Procedures

Peak Field Strength Measurements:

Analyzer center frequen was set to the frequency of the radiated spurious emission of interest

1. RBW=As specified in Table 1
2. VBW=3×RBW
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow the trace to stabilize

Table 1-RBW as a function of frequency

Frequency	RBW
9 ~ 150kHz	200 ~ 300Hz
0.15 ~ 30MHz	9 ~ 10kHz
30 ~ 1000MHz	100 ~ 120kHz
> 1000MHz	1MHz

AVE Field Strength Measurements:

Analyzer center frequen was set to the frequency of the radiated spurious emission of interest

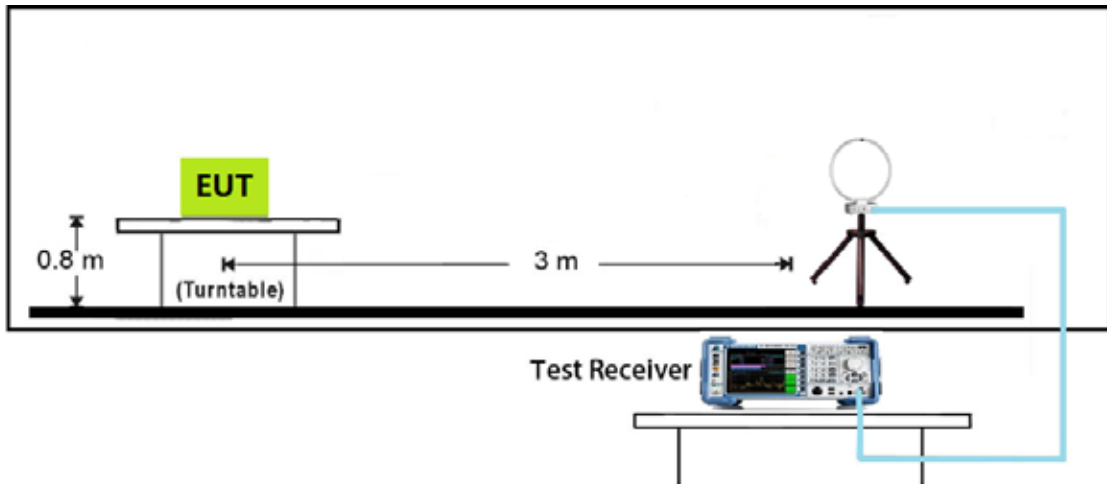
1. RBW= 1MHz
2. VBW≥1/T
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow max hold to run for at least 50 times(1/duty cycle) trace

Do as an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode

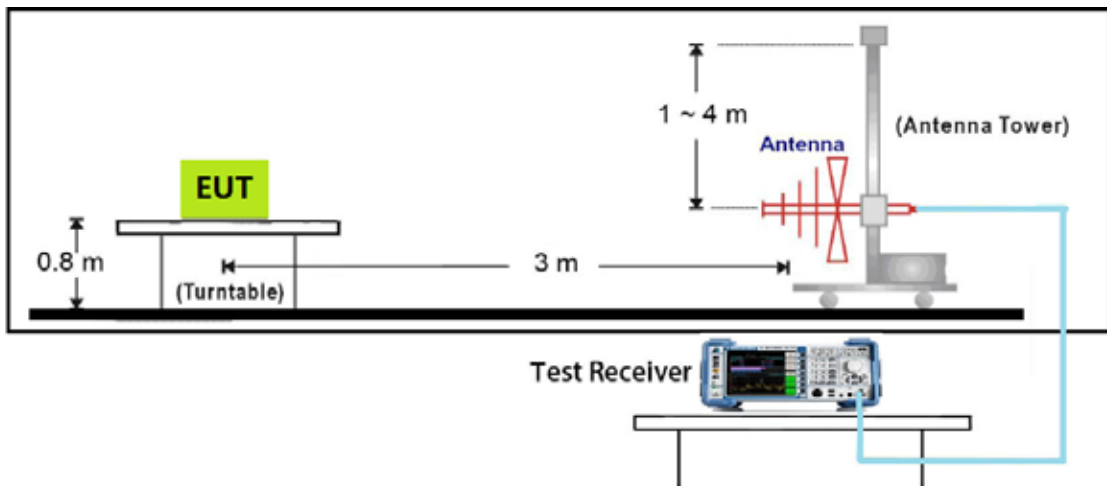


5.4 Test Setup Layout

9kHz~30MHz Test Setup

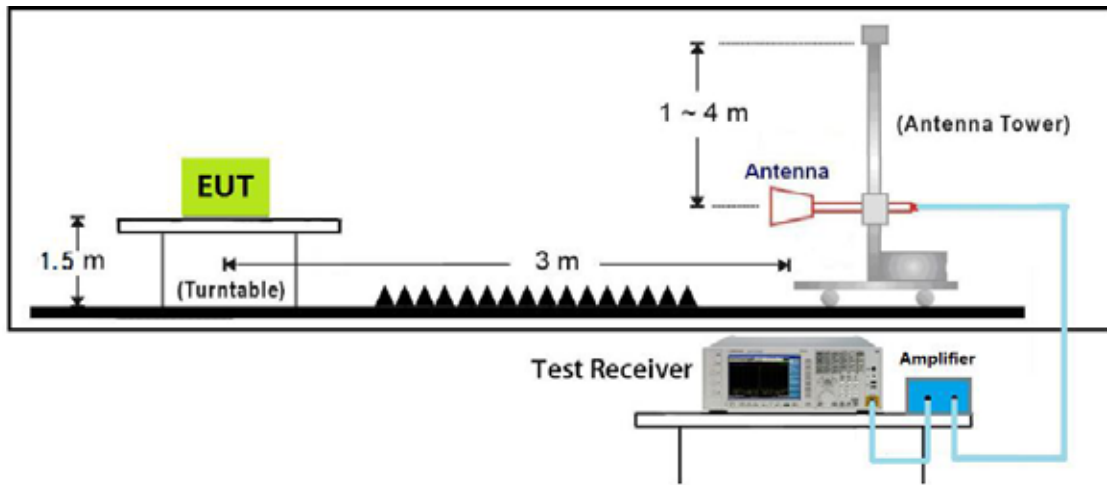


Below 1GHz Test Setup

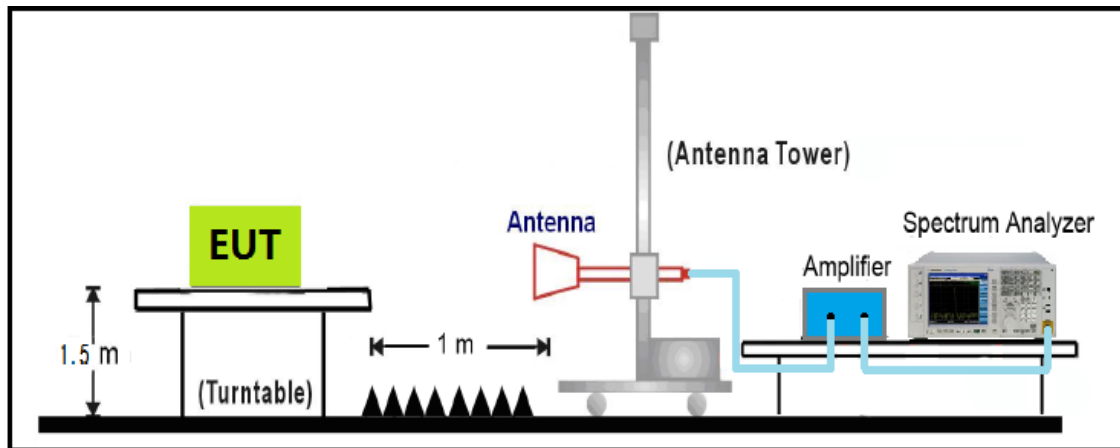




1GHz~18GHz Test Setup



18GHz~40GHz Test Setup



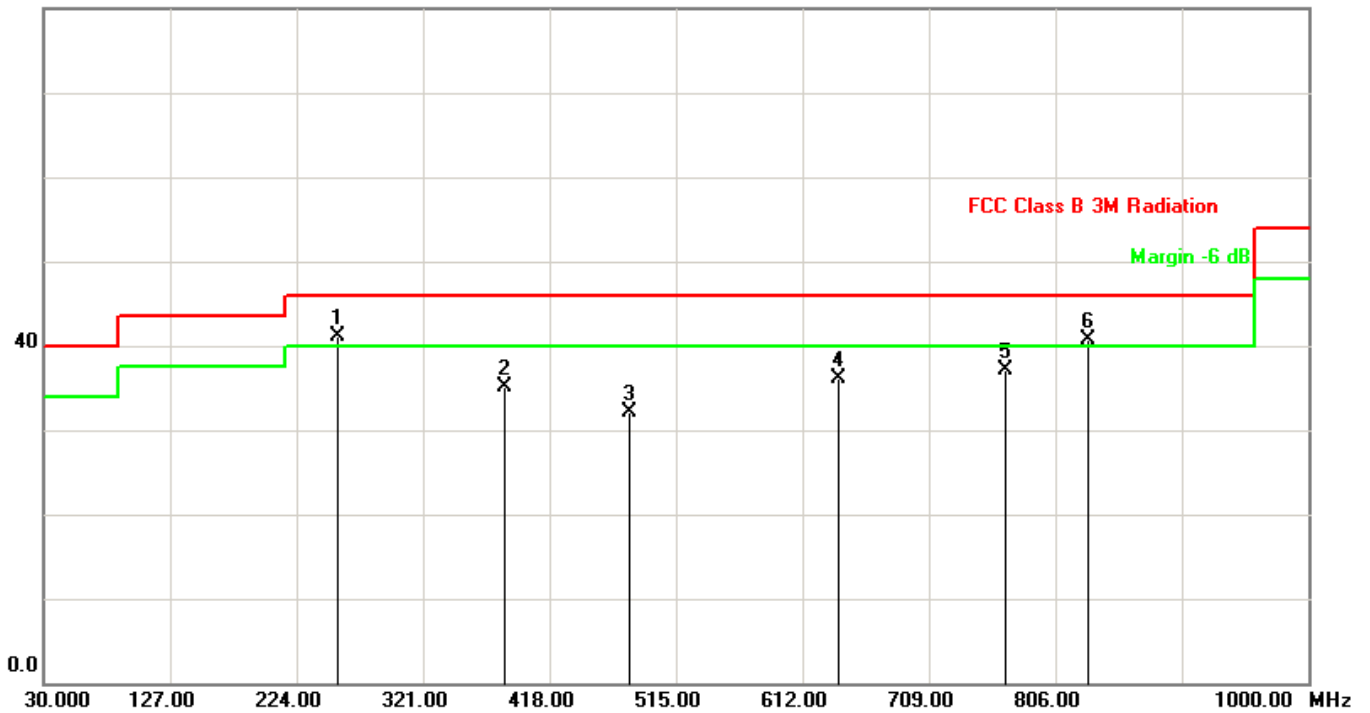


5.5 Test Result

The worst case of Radiated Emission below 1GHz:

Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Model: Transmit DH5 at 2402MHz	

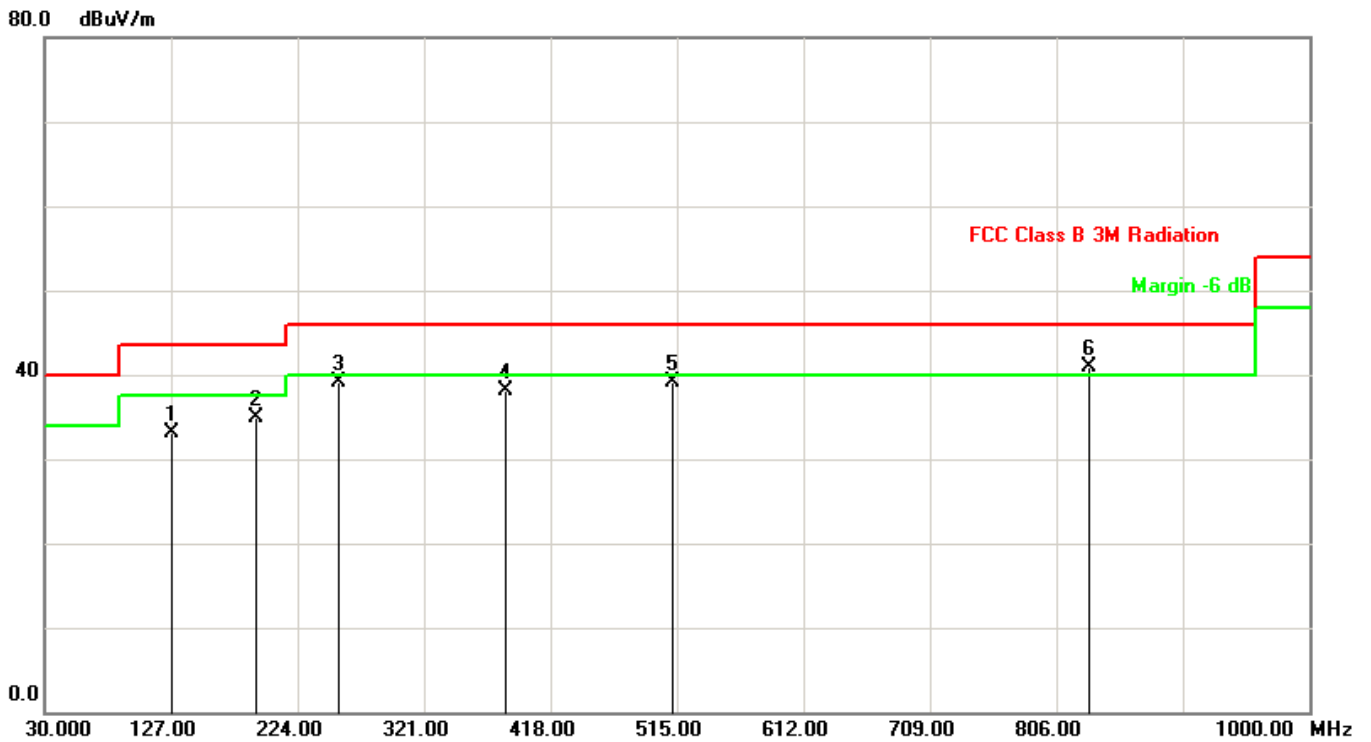
80.0 dBuV/m



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	256.0099	-10.50	51.68	41.18	46.00	-4.82	QP
2	384.0500	-6.75	41.84	35.09	46.00	-10.91	QP
3	480.0799	-6.19	38.39	32.20	46.00	-13.80	QP
4	640.1299	-1.98	38.08	36.10	46.00	-9.90	QP
5	768.1699	0.93	36.12	37.05	46.00	-8.95	QP
6	831.2199	1.24	39.47	40.71	46.00	-5.29	QP



Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2402MHz	

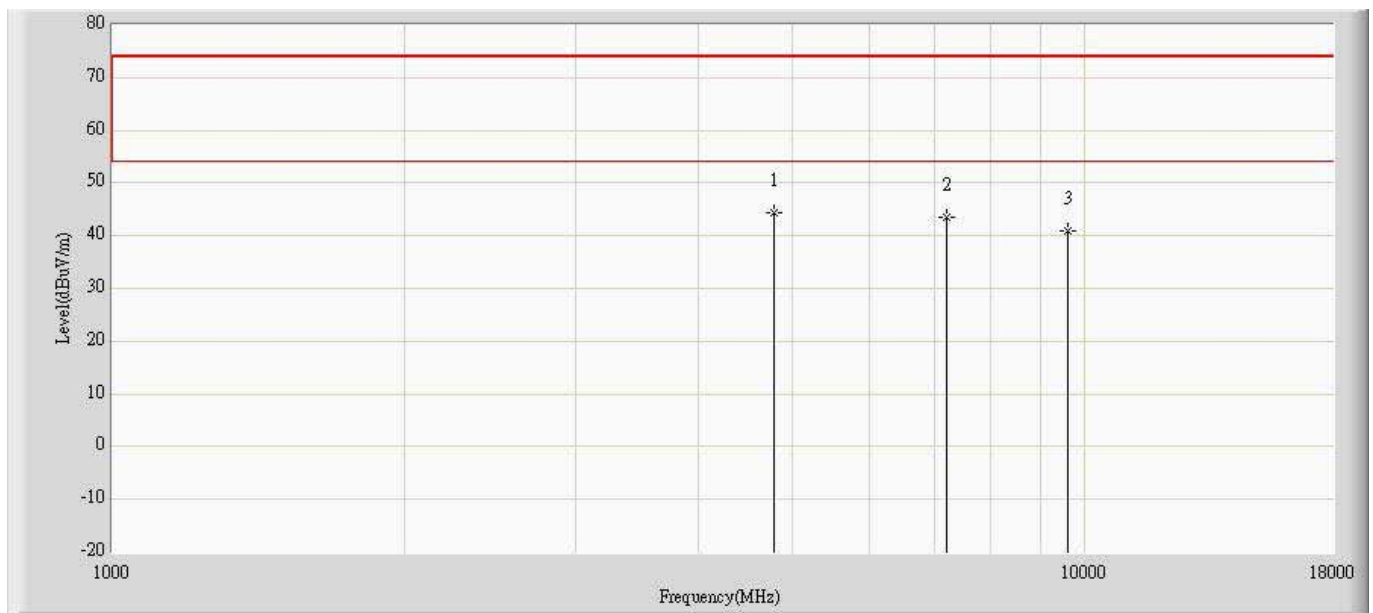


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	127.9699	-9.03	42.06	33.03	43.50	-10.47	QP
2	191.9900	-10.52	45.34	34.82	43.50	-8.68	QP
3	256.0099	-10.50	49.61	39.11	46.00	-6.89	QP
4	384.0500	-6.75	44.77	38.02	46.00	-7.98	QP
5	512.0900	-4.61	43.75	39.14	46.00	-6.86	QP
6	831.2199	1.24	39.67	40.91	46.00	-5.09	QP



Radiated Emission above 1GHz:

Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2402MHz	



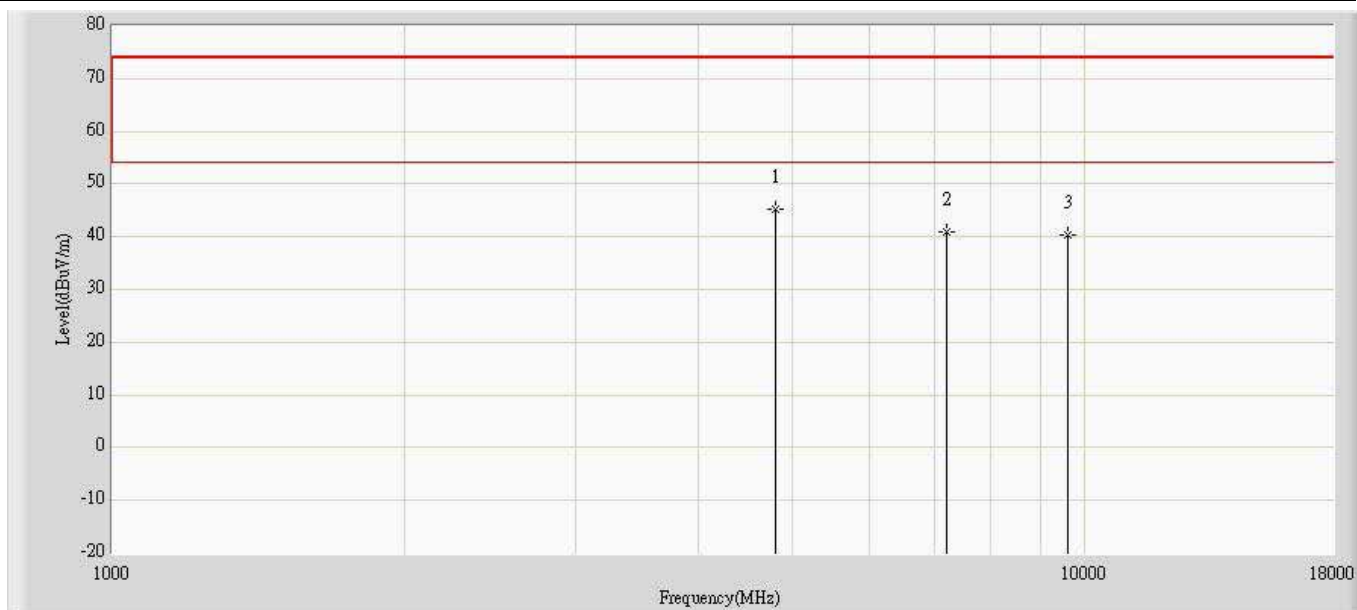
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4804.000	44.800	53.110	-29.200	74.000	-8.310	PK
2			7206.000	43.394	46.854	-30.606	74.000	-3.460	PK
3			9608.000	40.370	37.822	-33.630	74.000	2.548	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2402MHz	



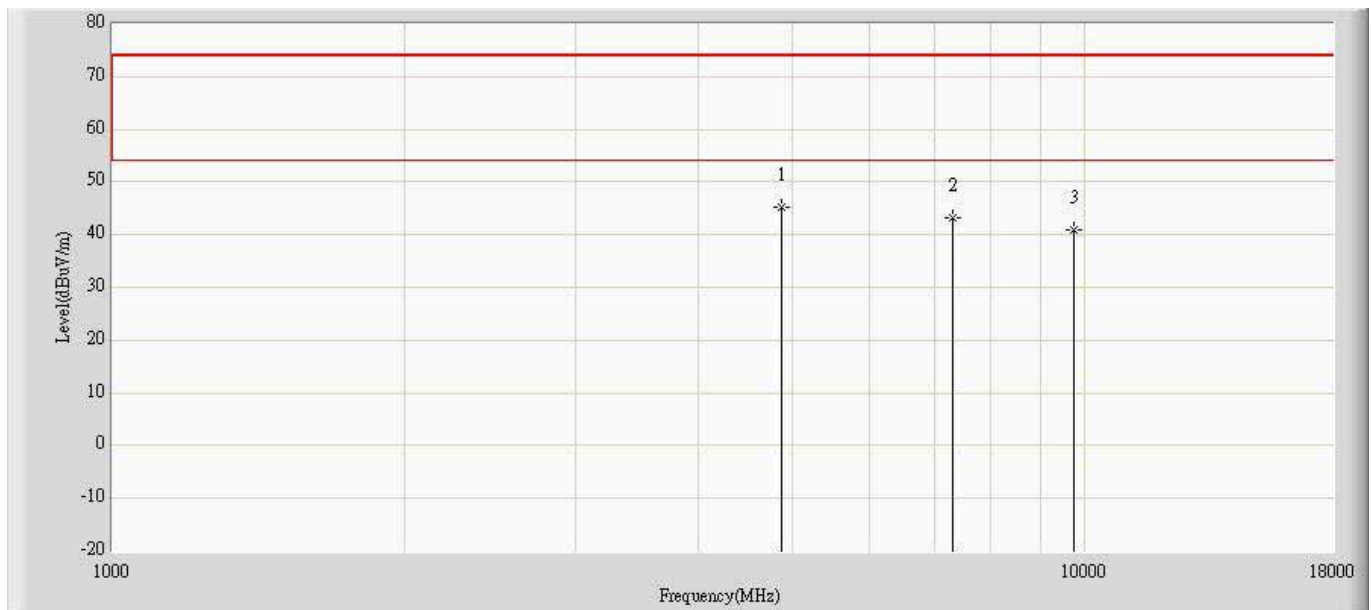
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4804.000	45.528	53.962	-28.472	74.000	-8.434	PK
2			7206.000	40.953	44.449	-33.047	74.000	-3.496	PK
3			9608.000	40.574	37.984	-33.426	74.000	2.590	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2441MHz	



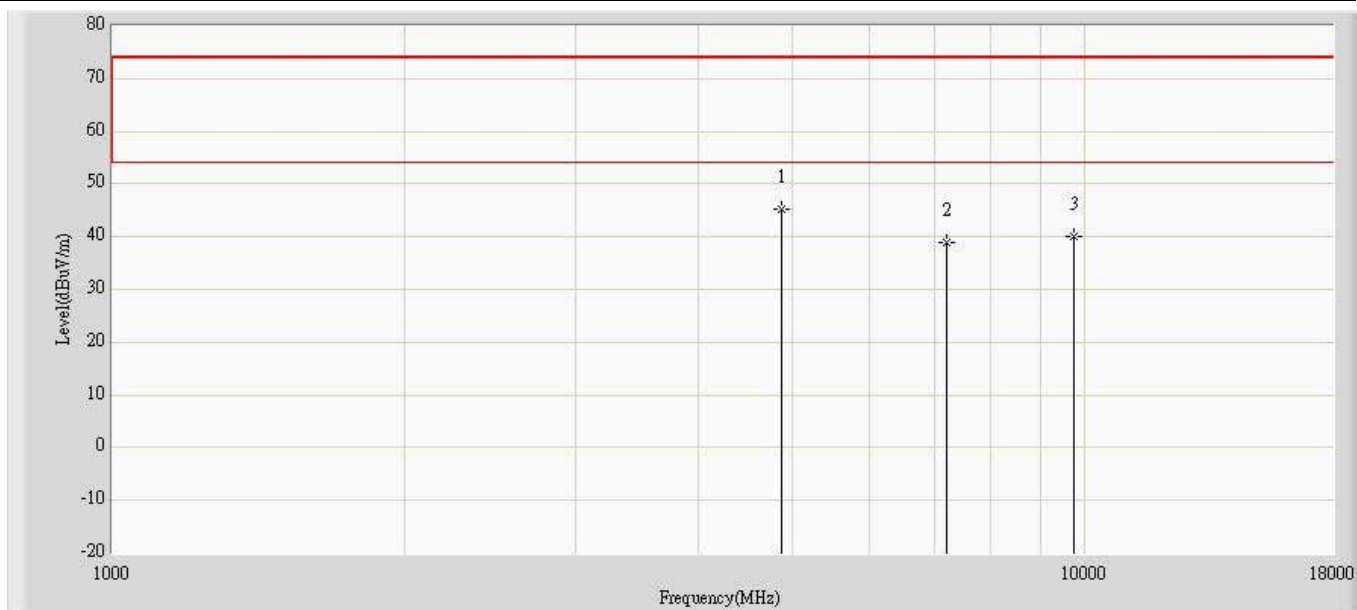
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4882.000	45.677	53.980	-28.323	74.000	-8.303	PK
2			7323.000	42.924	46.184	-31.076	74.000	-3.260	PK
3			9764.000	40.683	37.943	-33.317	74.000	2.740	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2441MHz	



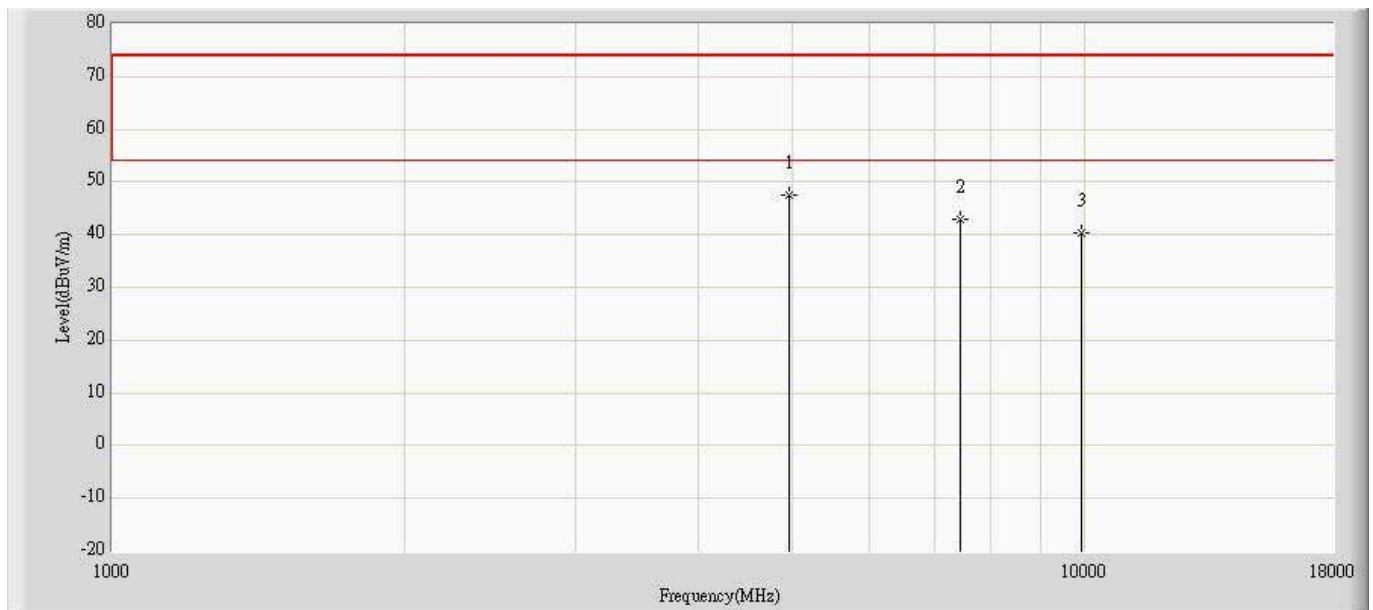
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4882.000	44.918	53.206	-29.082	74.000	-8.288	PK
2			7323.000	39.138	42.631	-34.862	74.000	-3.493	PK
3			9764.000	40.050	37.215	-33.950	74.000	2.835	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2480MHz	



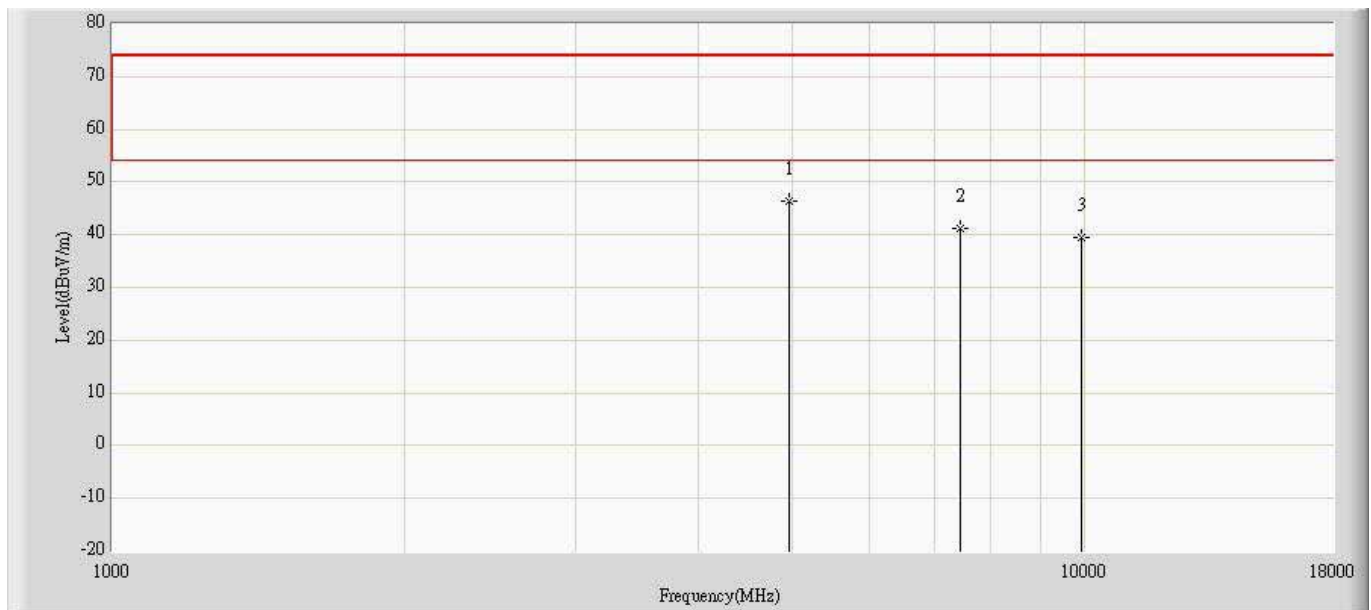
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4960.000	47.076	55.415	-26.924	74.000	-8.339	PK
2			7440.000	43.301	46.194	-30.699	74.000	-2.893	PK
3			9920.000	39.851	36.519	-34.149	74.000	3.332	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode1: Transmit DH5 at 2480MHz	



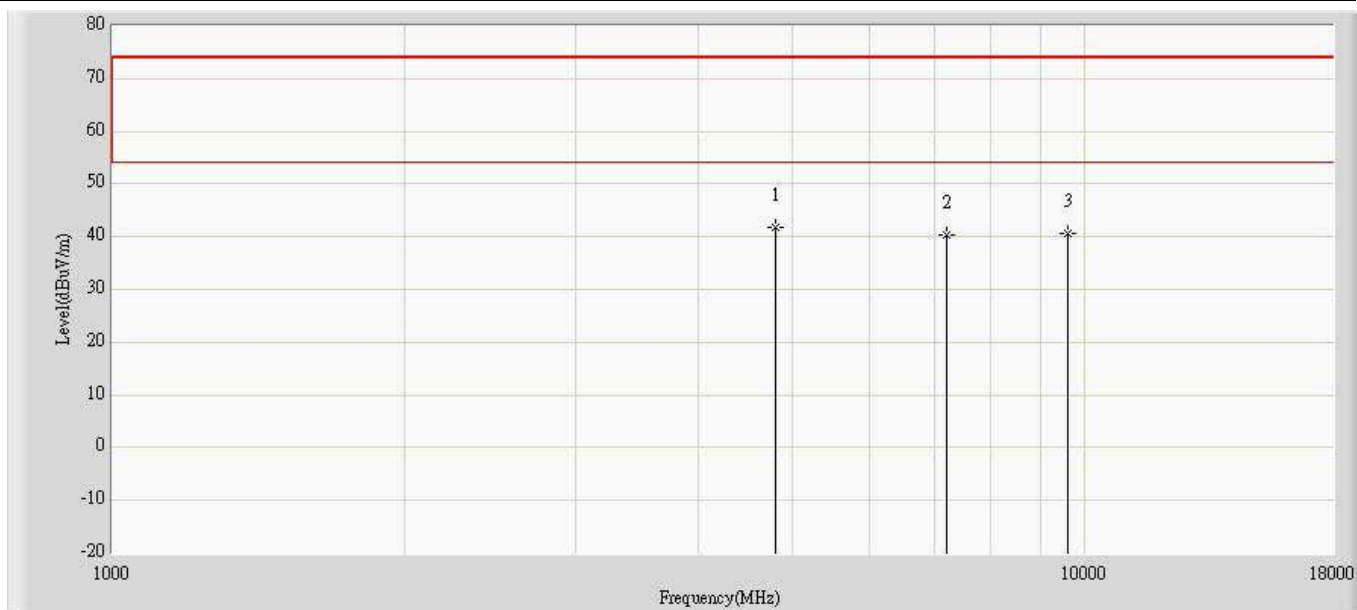
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4960.000	46.057	54.258	-27.943	74.000	-8.201	PK
2			7440.000	41.029	43.922	-32.971	74.000	-2.893	PK
3			9920.000	39.945	36.581	-34.055	74.000	3.364	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode2: Transmit 2DH5 at 2402MHz	



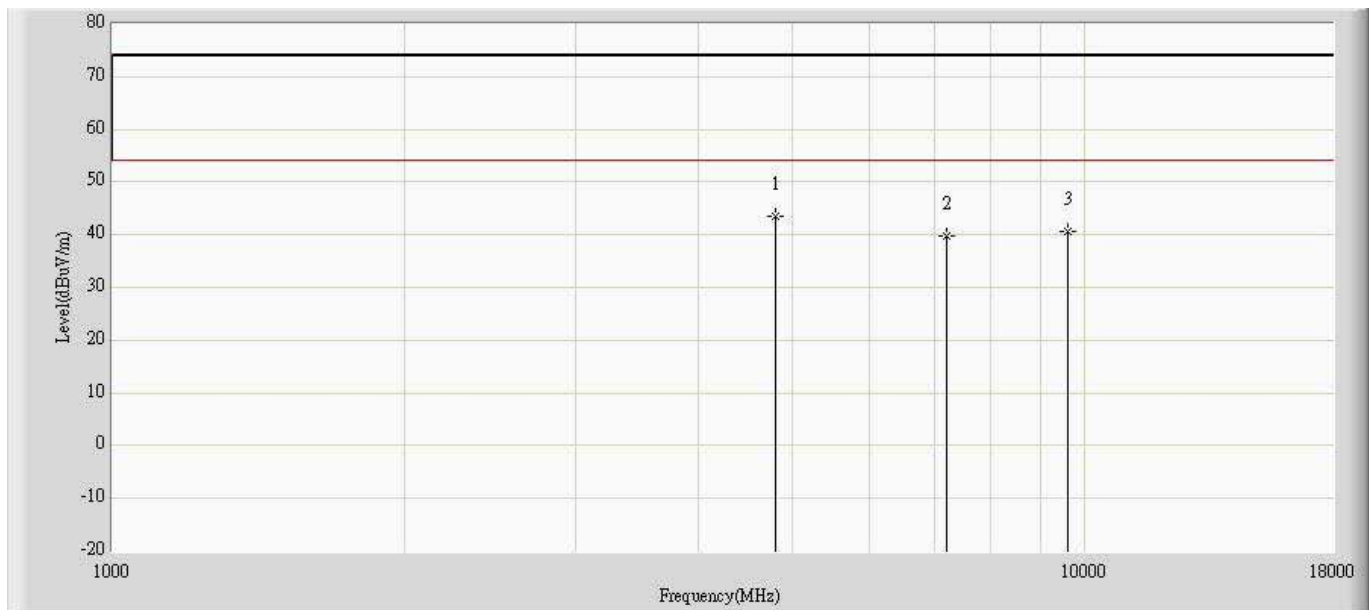
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4804.000	42.132	50.442	-31.868	74.000	-8.310	PK
2			7206.000	40.333	43.793	-33.667	74.000	-3.460	PK
3			9608.000	40.985	38.437	-33.015	74.000	2.548	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode2: Transmit 2DH5 at 2402MHz	



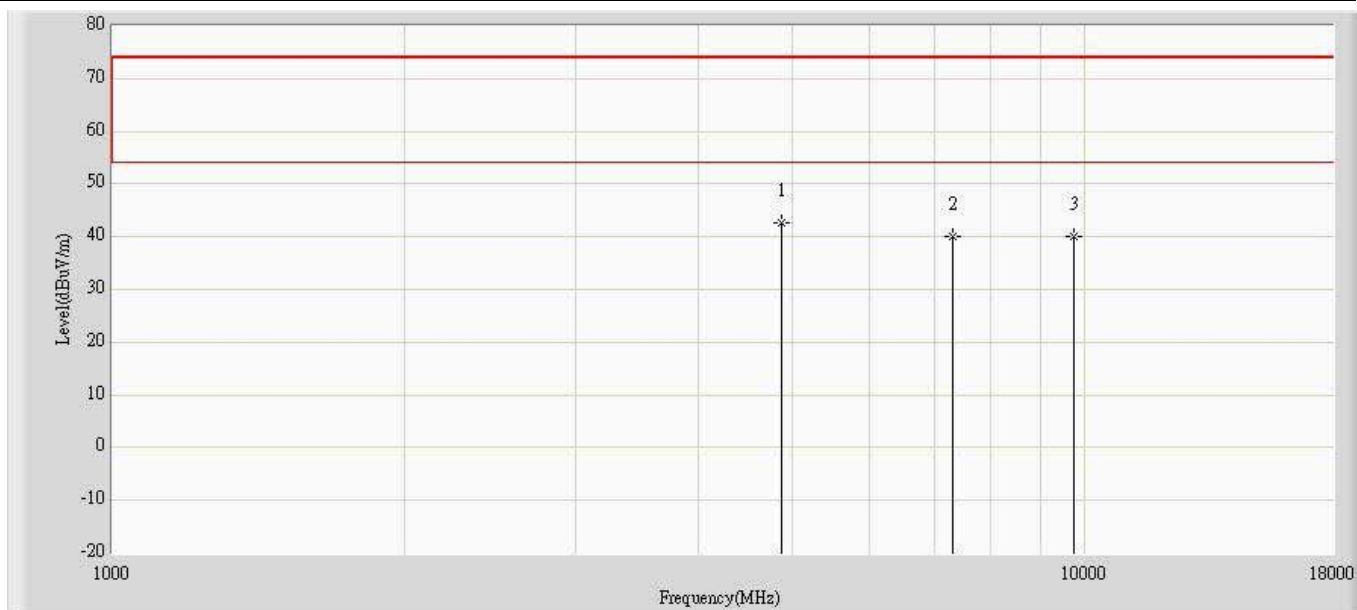
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4804.000	43.640	52.074	-30.360	74.000	-8.434	PK
2			7206.000	40.035	43.531	-33.965	74.000	-3.496	PK
3			9608.000	40.731	38.141	-33.269	74.000	2.590	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode2: Transmit 2DH5 at 2441MHz	



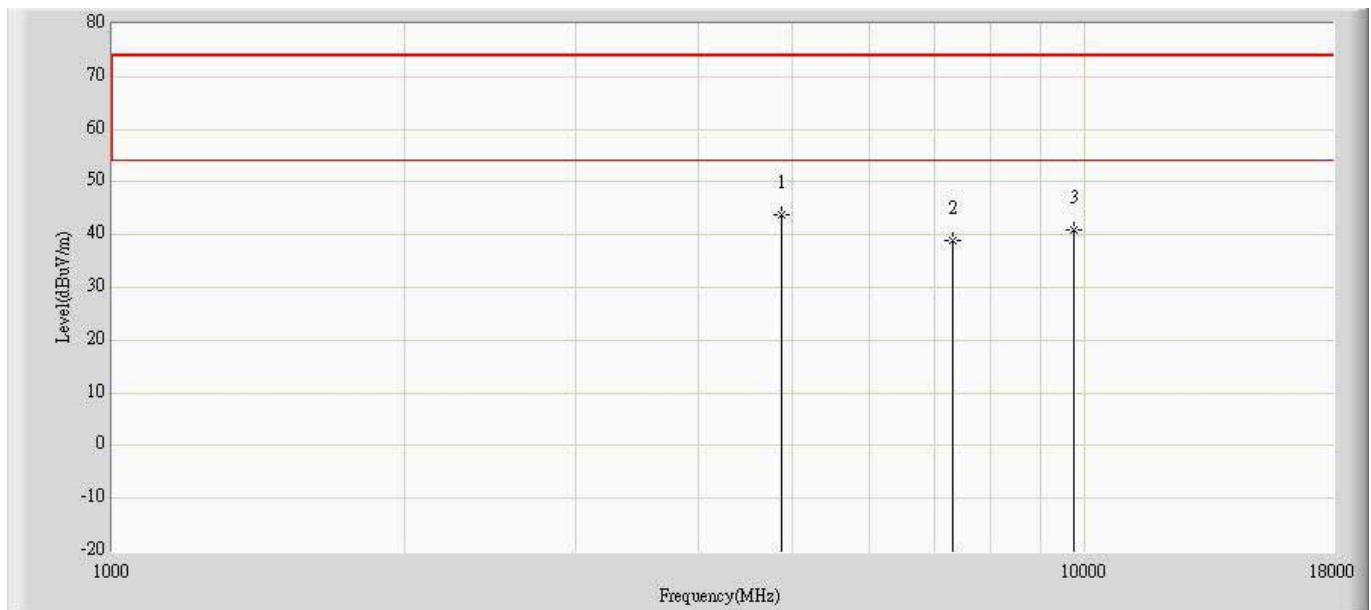
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4882.000	42.887	51.190	-31.113	74.000	-8.303	PK
2			7323.000	39.944	43.204	-34.056	74.000	-3.260	PK
3			9764.000	39.999	37.259	-34.001	74.000	2.740	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode2: Transmit 2DH5 at 2441MHz	



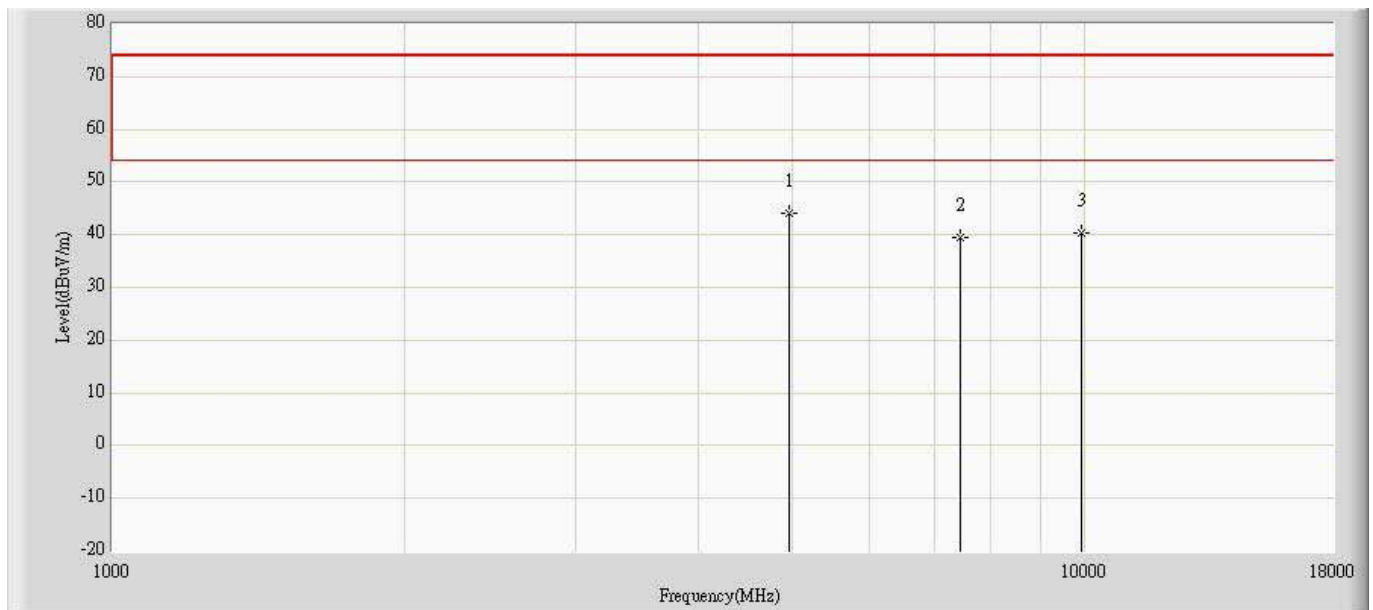
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4882.000	43.570	51.858	-30.430	74.000	-8.288	PK
2			7323.000	38.574	42.067	-35.426	74.000	-3.493	PK
3			9764.000	40.527	37.692	-33.473	74.000	2.835	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode2: Transmit 2DH5 at 2480MHz	



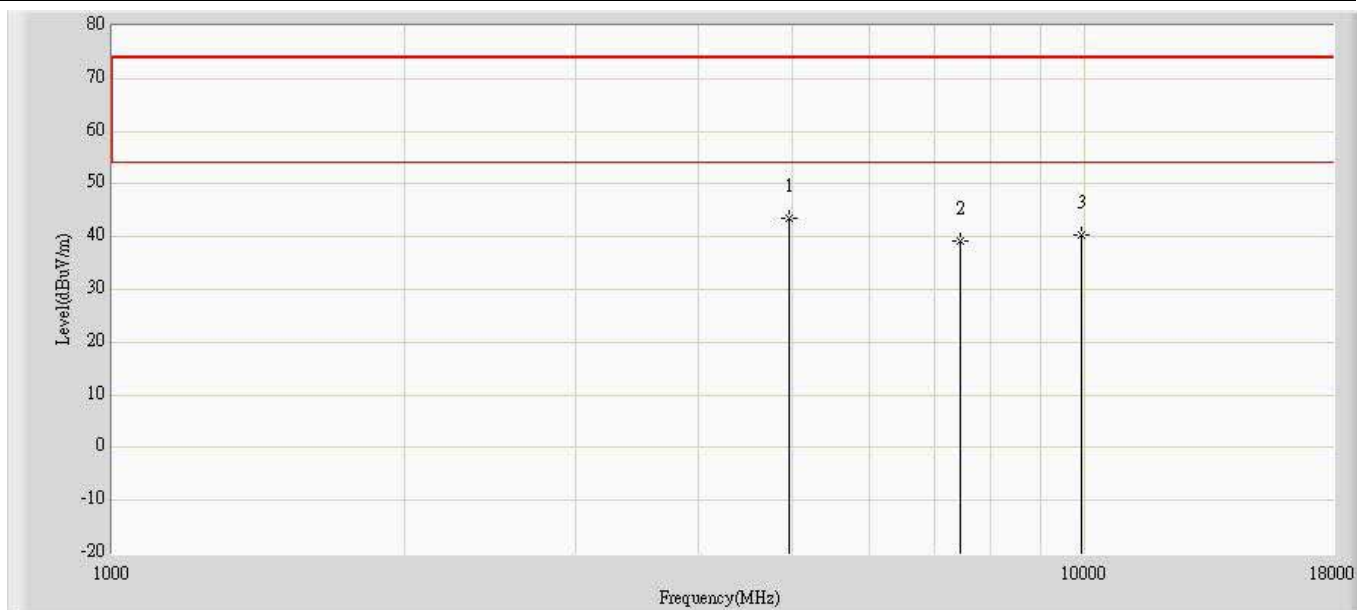
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4960.000	43.833	52.172	-30.167	74.000	-8.339	PK
2			7440.000	39.734	42.627	-34.266	74.000	-2.893	PK
3			9920.000	40.735	37.403	-33.265	74.000	3.332	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode2: Transmit 2DH5 at 2480MHz	



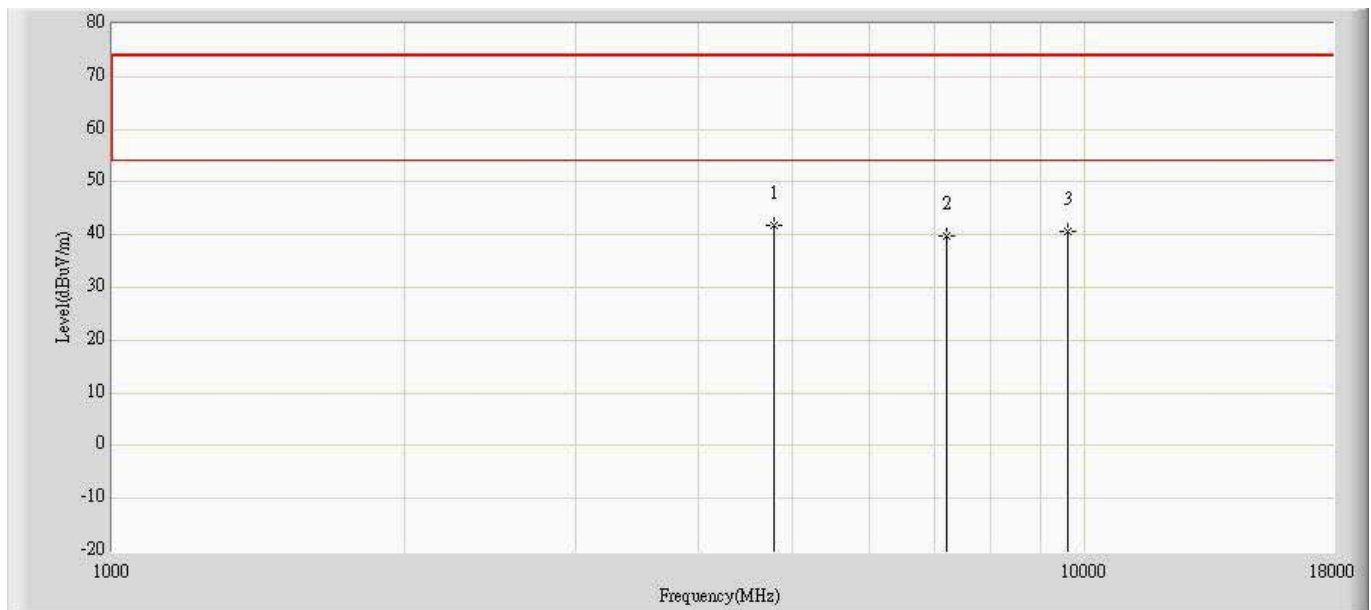
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4960.000	43.514	51.715	-30.486	74.000	-8.201	PK
2			7440.000	38.985	41.878	-35.015	74.000	-2.893	PK
3			9920.000	40.541	37.177	-33.459	74.000	3.364	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode3: Transmit 3DH5 at 2402MHz	



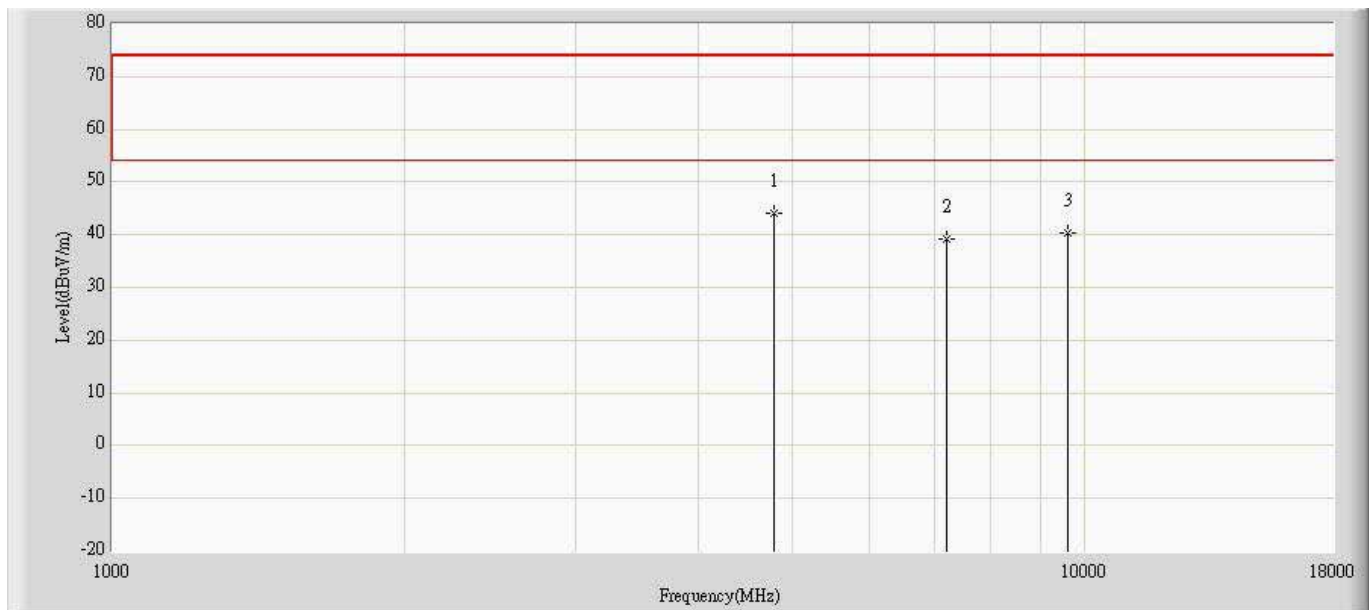
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4804.000	42.005	50.315	-31.995	74.000	-8.310	PK
2			7206.000	40.245	43.705	-33.755	74.000	-3.460	PK
3			9608.000	40.880	38.332	-33.120	74.000	2.548	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode3: Transmit 3DH5 at 2402MHz	



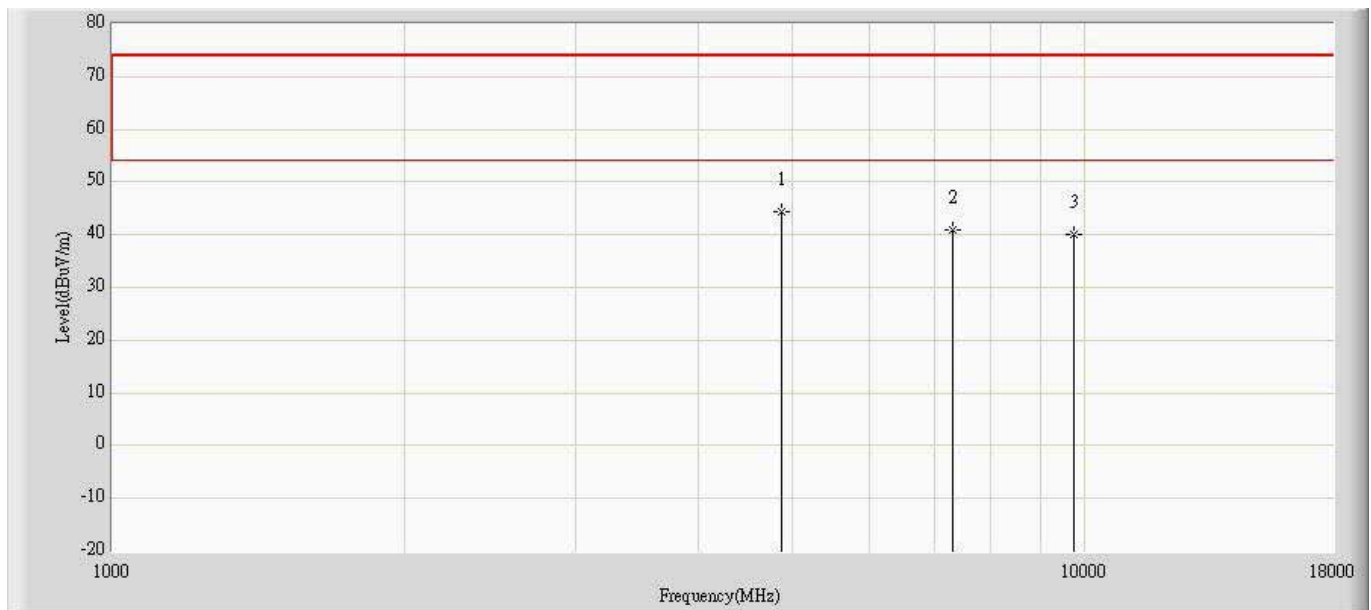
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4804.000	43.695	52.129	-30.305	74.000	-8.434	PK
2			7206.000	39.587	43.083	-34.413	74.000	-3.496	PK
3			9608.000	40.292	37.702	-33.708	74.000	2.590	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode3: Transmit 3DH5 at 2441MHz	



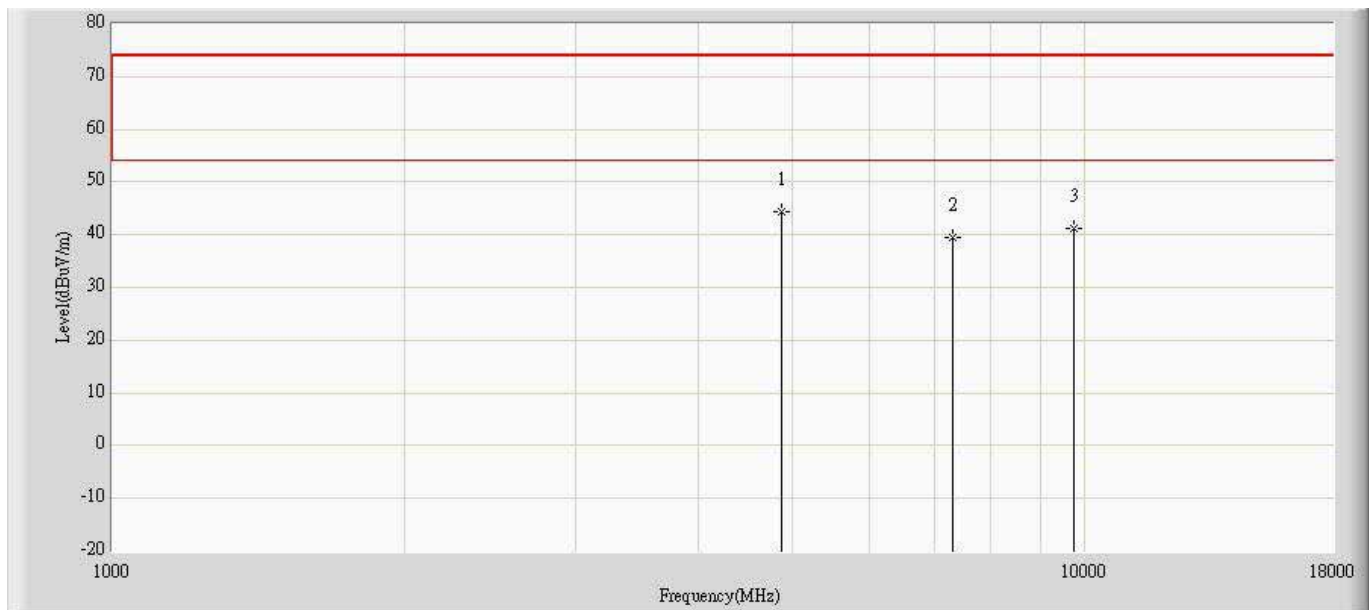
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4882.000	44.231	52.534	-29.769	74.000	-8.303	PK
2			7323.000	40.645	43.905	-33.355	74.000	-3.260	PK
3			9764.000	39.548	36.808	-34.452	74.000	2.740	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode3: Transmit 3DH5 at 2441MHz	



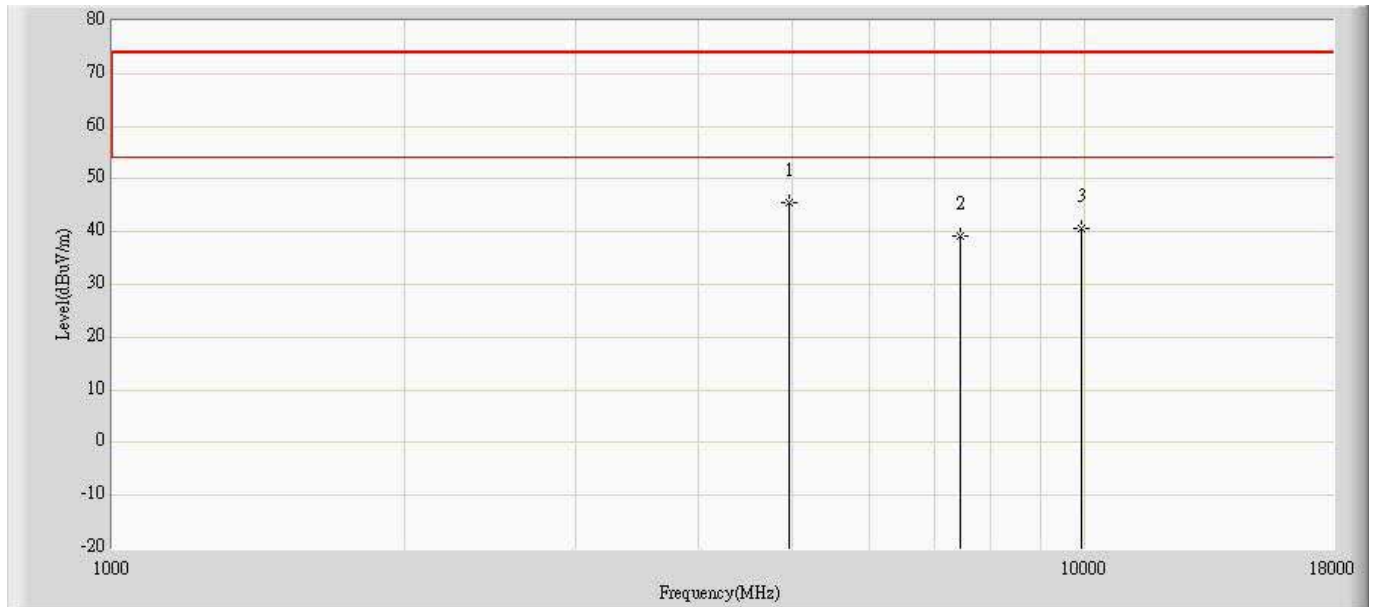
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4882.000	44.159	52.447	-29.841	74.000	-8.288	PK
2			7323.000	39.500	42.993	-34.500	74.000	-3.493	PK
3			9764.000	40.800	37.965	-33.200	74.000	2.835	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:N538-5000	Power: By Battery
Note: Mode3: Transmit 3DH5 at 2480MHz	



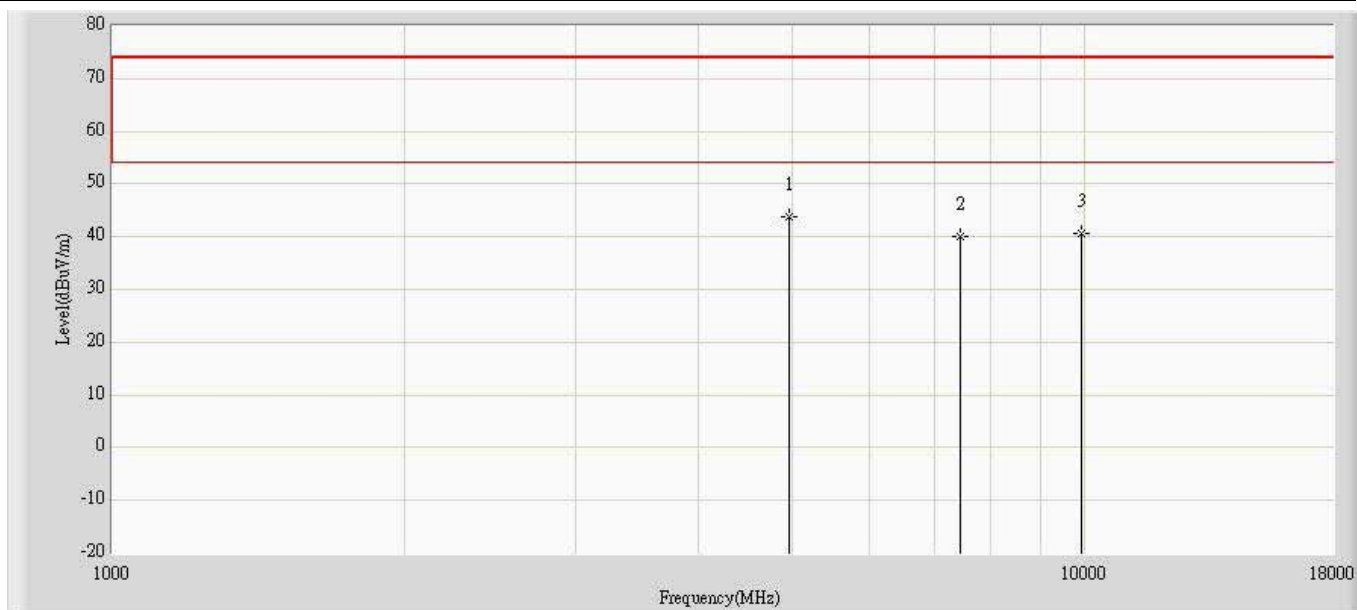
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4960.000	46.081	54.420	-27.919	74.000	-8.339	PK
2			7440.000	39.150	42.043	-34.850	74.000	-2.893	PK
3			9920.000	40.930	37.598	-33.070	74.000	3.332	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/13
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:N538-5000	Power: By Battery
Note: Mode3: Transmit 3DH5 at 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	4960.000	43.608	51.809	-30.392	74.000	-8.201	PK
2			7440.000	40.283	43.176	-33.717	74.000	-2.893	PK
3			9920.000	41.115	37.751	-32.885	74.000	3.364	PK

Note:

1. Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)
2. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)
3. There is the ambient noise within frequency range (9KHz~30MHz,18GHz~40GHz) .
4. The data above is worst case.
5. The average measurement was not performed when the peak measured data under the limit of average detection.
6. The emission levels of other frequencies are very lower than the limit and not show in test report.



6. 20dB Bandwidth Measurement

6.1 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 output power no greater than 125 mW.

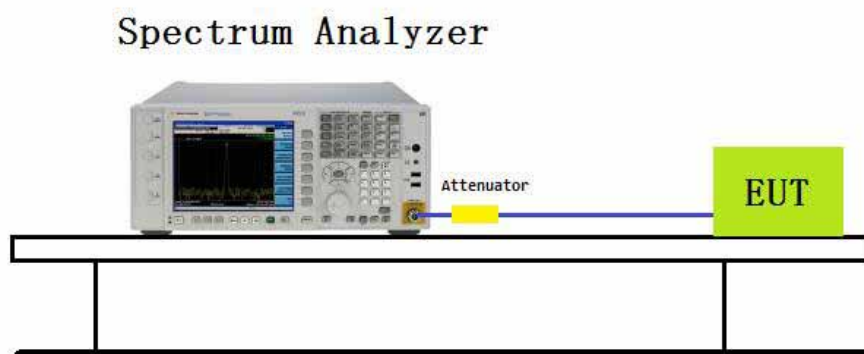
6.2 Test Standard

ANSI C63.10-2013 Section 6.9.2

6.3 Test Procedures

1. Set $RBW \geq 1\%$ of the 20dB bandwidth
2. $VBW \geq 3 \times RBW$
3. Span=Approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points(upper and lower frequencies)that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission

6.4 Test Setup Layout

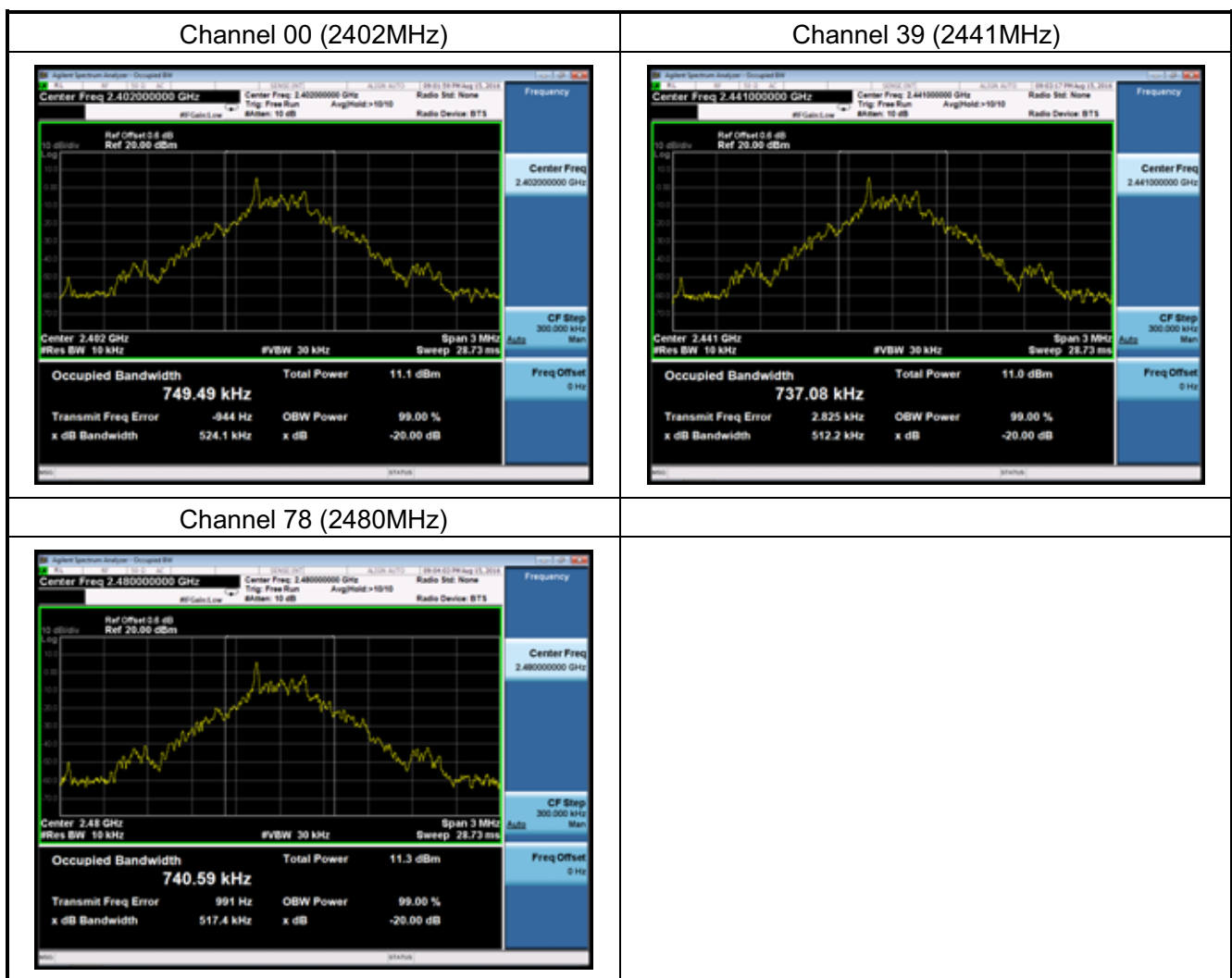




6.5 Test Result

Test Item	Occupied Bandwidth
Test Mode	Mode 1: Transmit by DH5

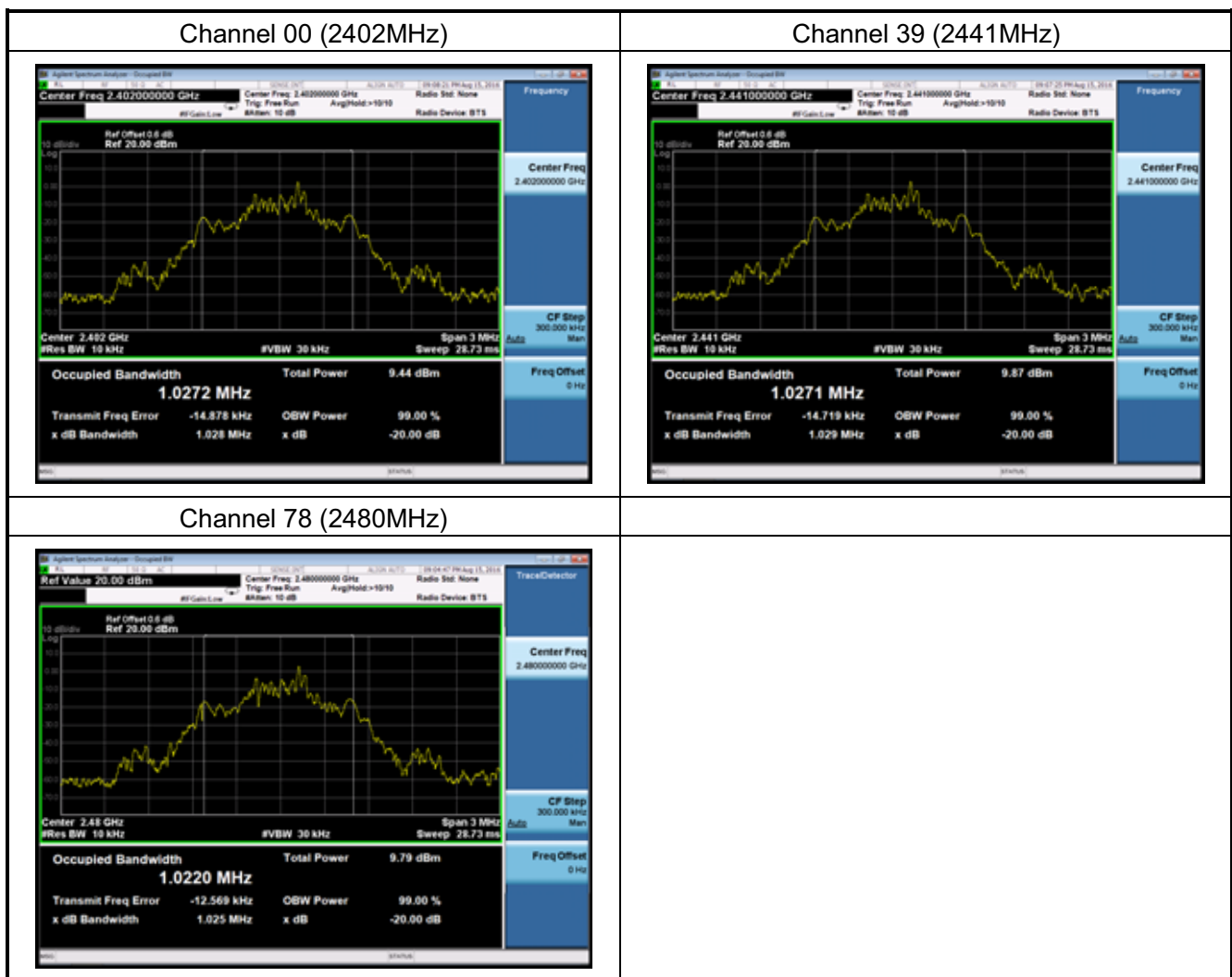
Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	524.1	749.49
39	2441	512.2	737.08
78	2480	517.4	740.59





Test Item	Occupied Bandwidth
Test Mode	Mode 2: Transmit by 2DH5

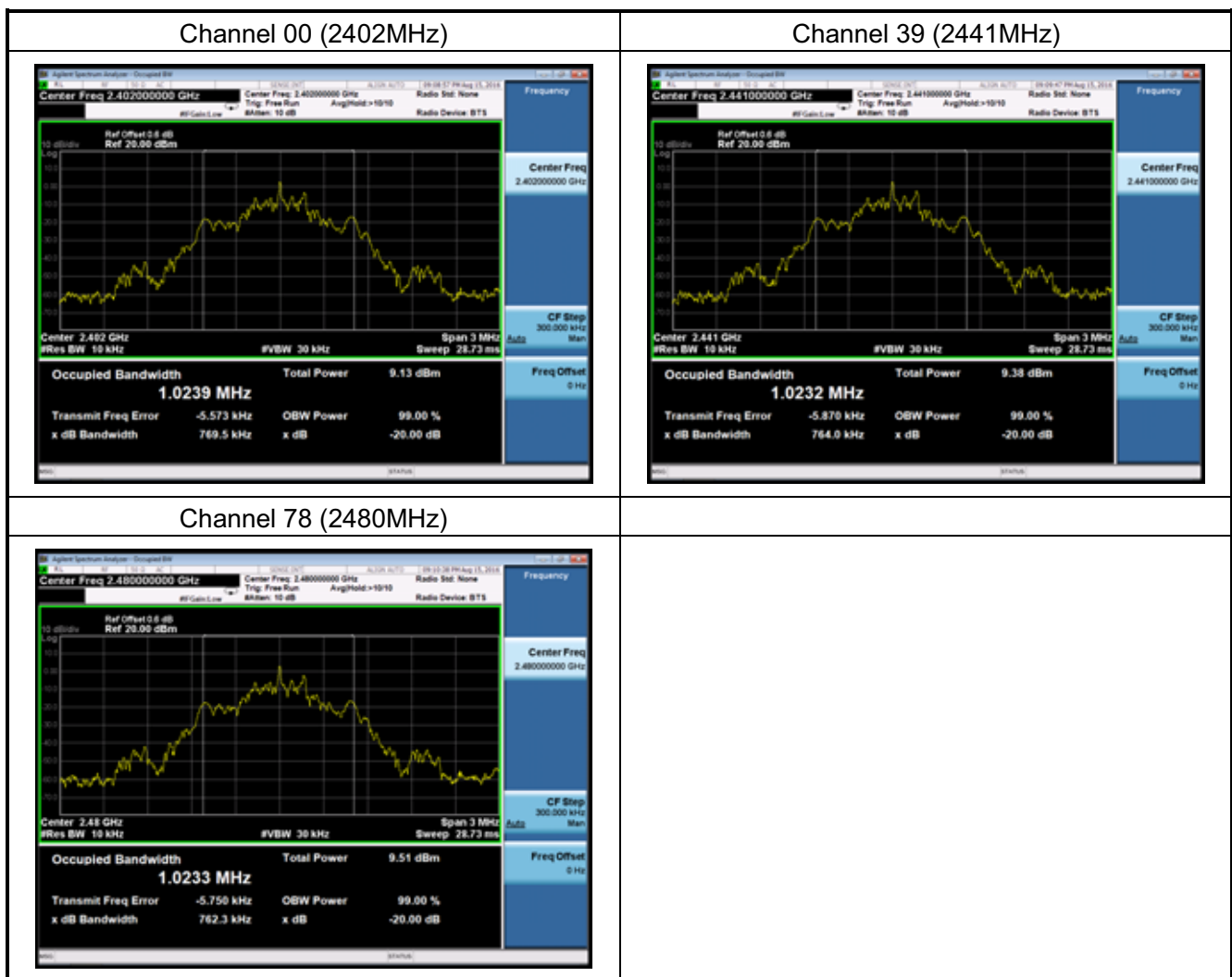
Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	1028	1027.2
39	2441	1029	1027.1
78	2480	1025	1022.0





Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 3DH5

Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	769.5	1023.9
39	2441	764.0	1023.2
78	2480	762.3	1023.3





7. Channel Carrier Frequencies Separation Measurement

7.1 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.

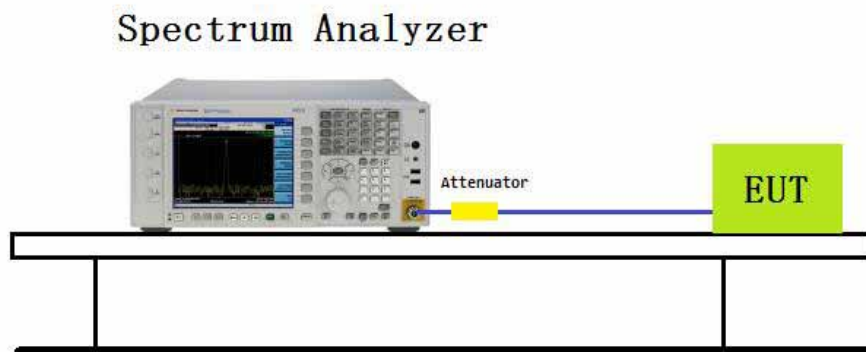
7.2 Test Standard

ANSI C63.10-2013 Section 7.8.2

7.3 Test Procedures

1. RBW approximately 30% of the channel spacing
2. VBW \geq RBW
3. Span=Wide enough to capture the peaks of two adjacent channels
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

7.4 Test Setup Layout

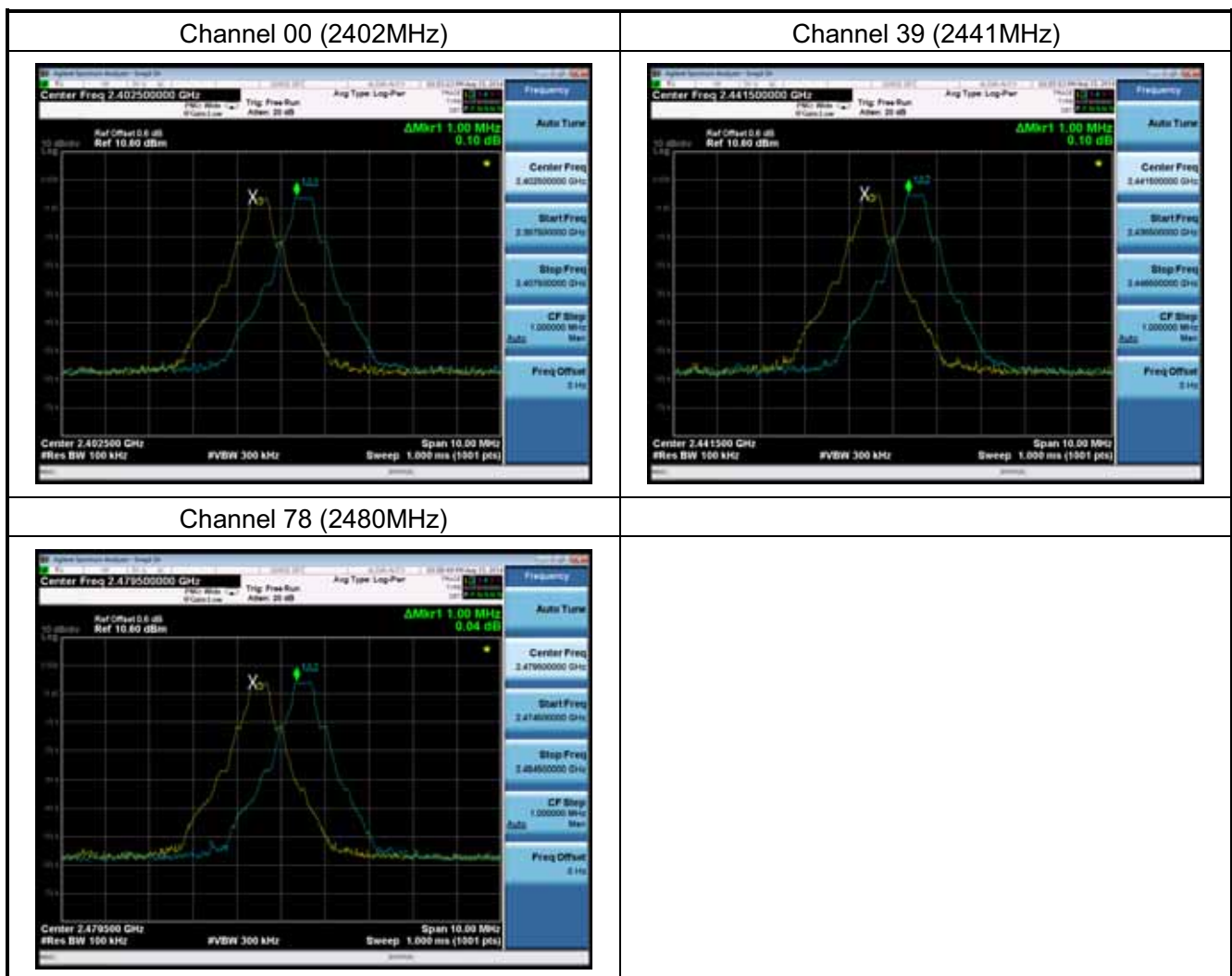




7.5 Test Result

Test Item	:	Channel Carrier Frequency Separation
Test Mode	:	Mode 1: Transmit by DH5

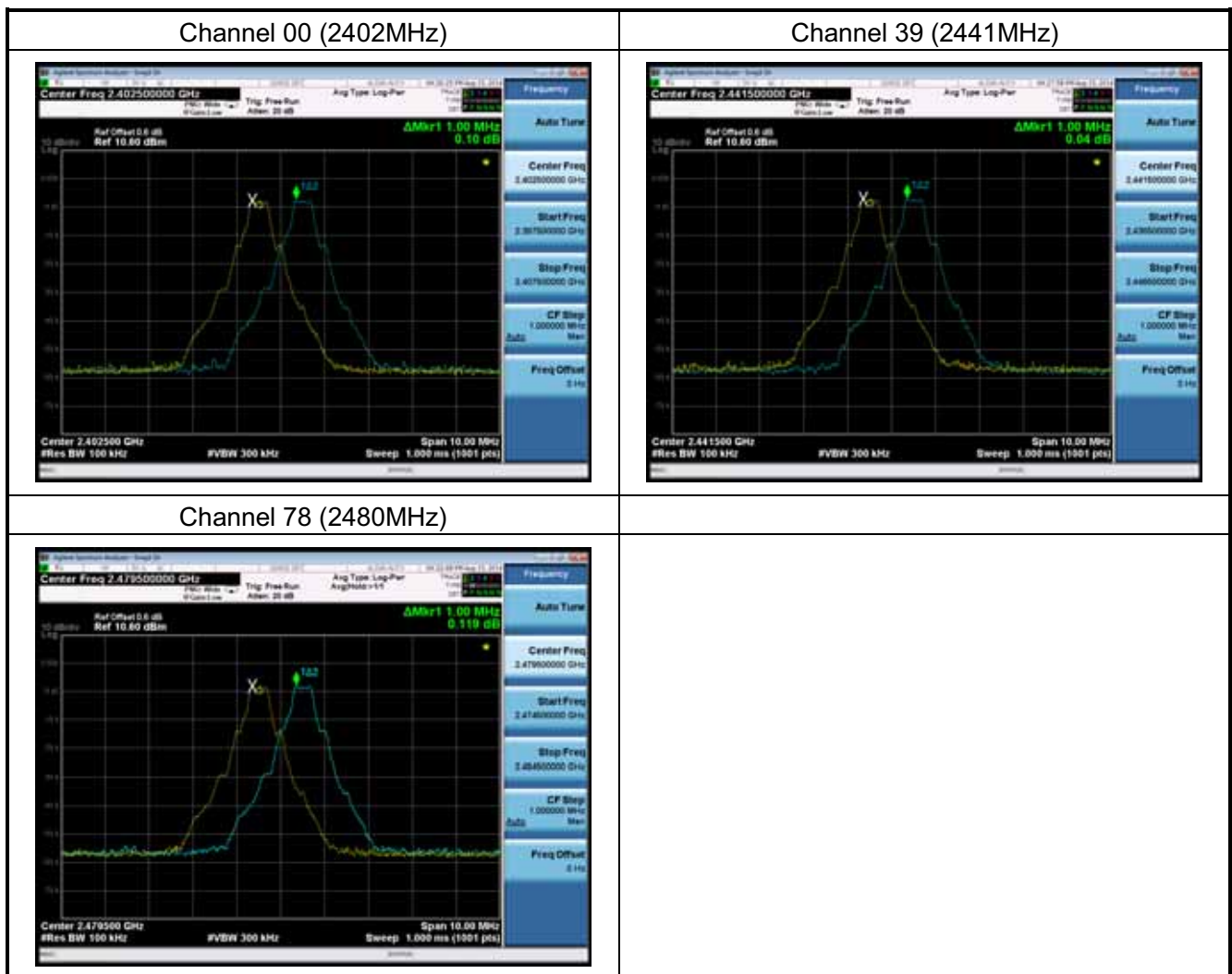
Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass





Test Item	:	Carrier Frequency Separation
Test Mode	:	Mode 2: Transmit by 2DH5

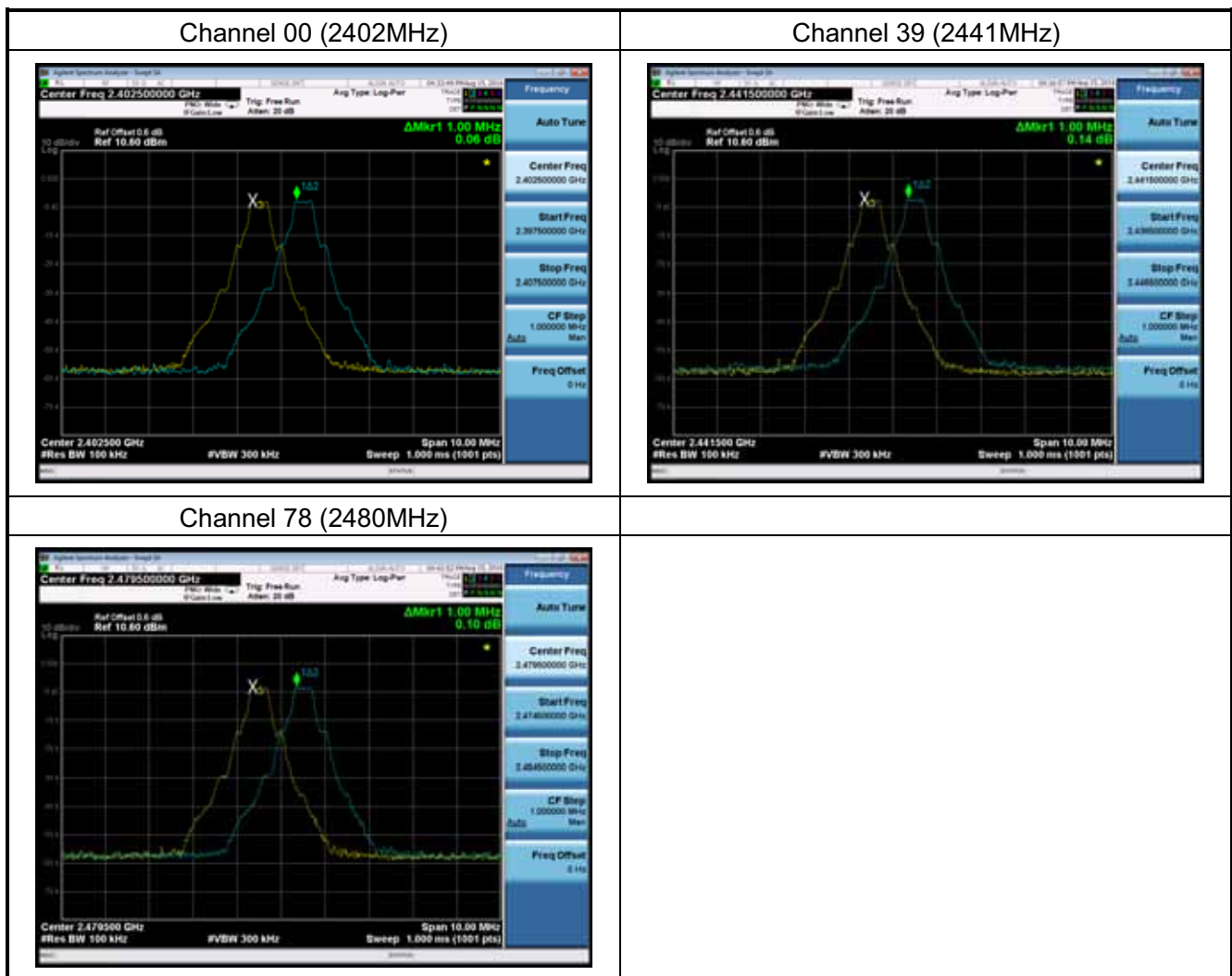
Channel No.	Frequency (MHz)	Carrier Frequency Separation(kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass





Test Item	:	Carrier Frequency Separation
Test Mode	:	Mode 2: Transmit by 3DH5

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass





8. Dwell Time Measurement

8.1 Test Limit

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.

8.2 Test Standard

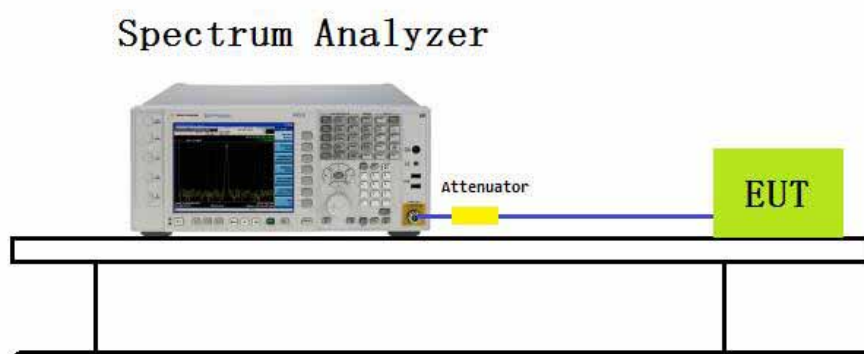
ANSI C63.10-2013- Section 7.8.4

8.3 Test Procedures

1. RBW=1MHz
2. VBW \geq RBW
3. Span=Zero span, centered on a hopping channel
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=As necessary to capture the entire dwell time per hopping channel

If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation(data rate, modulation format, etc.),repeat this test for each variation. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

8.4 Test Setup Layout





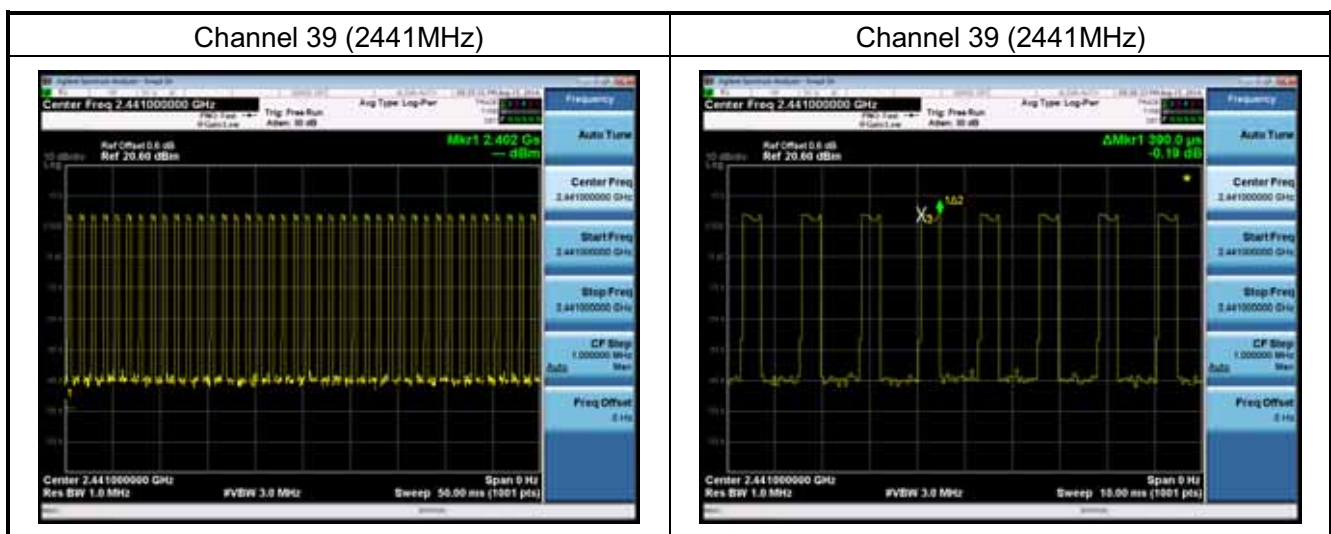
8.5 Test Result

Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 3DH1

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	124.8	< 400	Pass

Test Time Period: 0.4*79=31.6sec, Hopping Times Within 1sec: 40/50msec = 800 hops/sec.

2441MHz, The Maximum Occupancy Time Within 31.6sec: [(0.39ms*800)/79]*31.6 =124.8msec



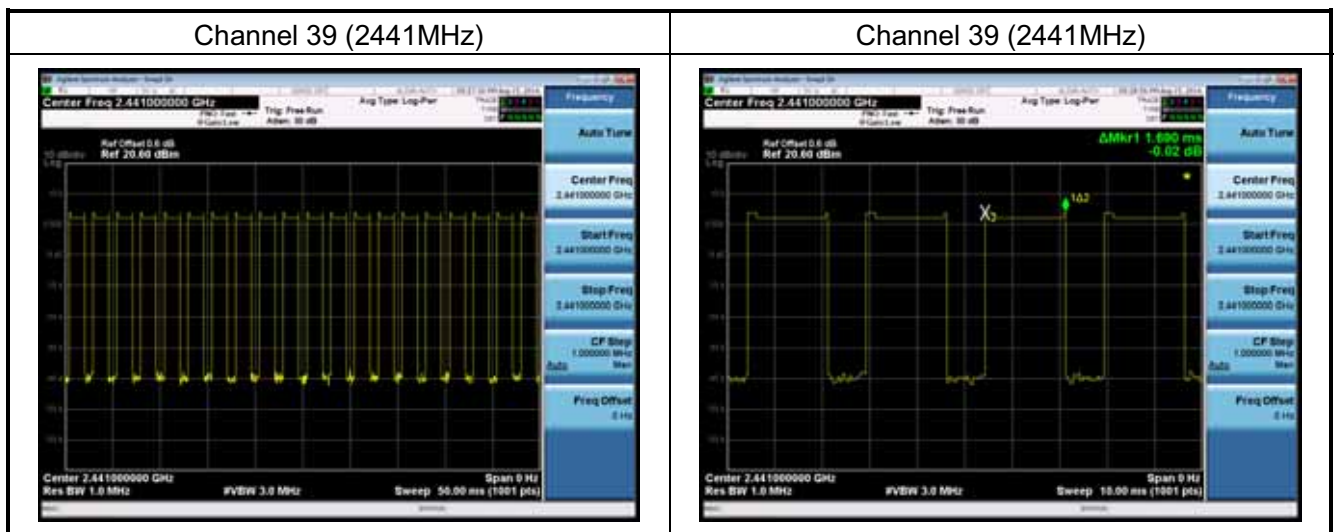


Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 3DH3

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	270.4	< 400	Pass

Test Time Period: $0.4 \times 79 = 31.6$ sec, Hopping Times Within 1sec: $20/50$ msec= 400 hops/sec.

2441MHz, The Maximum Occupancy Time Within 31.6sec: $[(1.69\text{ms} \times 400) / 79] \times 31.6 = 270.4$ msec



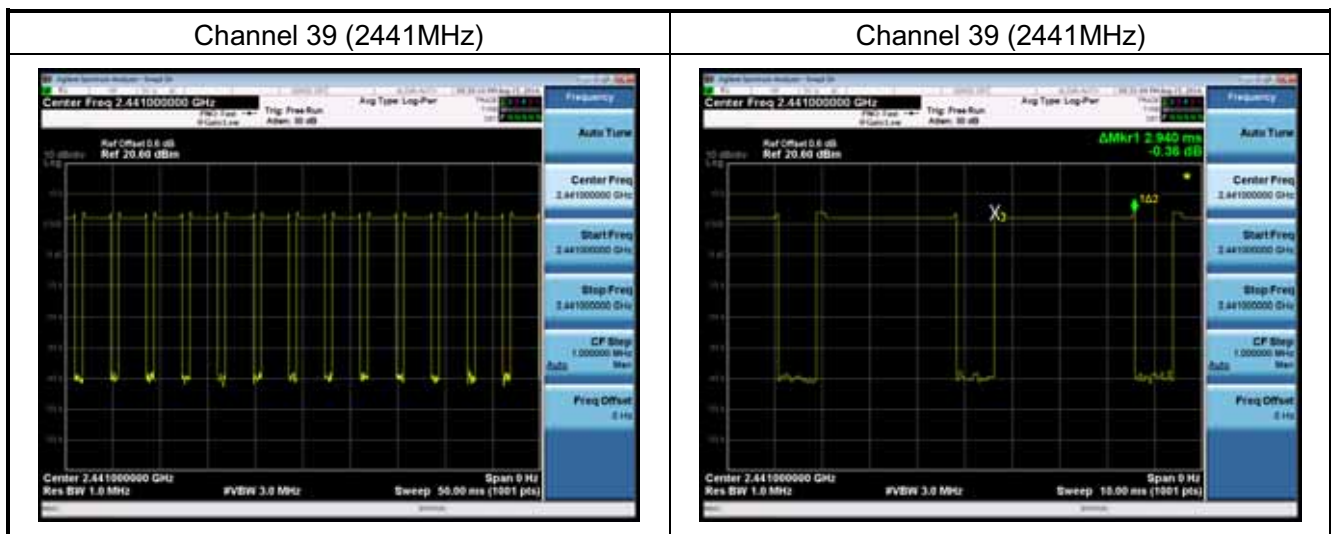


Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 3DH5

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	317.5	< 400	Pass

Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $13.5/50\text{msec} = 270$ hops/sec.

2441MHz, The Maximum Occupancy Time Within 31.6sec: $[(2.94\text{ms} \times 270) / 79] \times 31.6 = 317.5\text{msec}$





9. Number of Hopping Channels Measurement

9.1 Test Limit

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

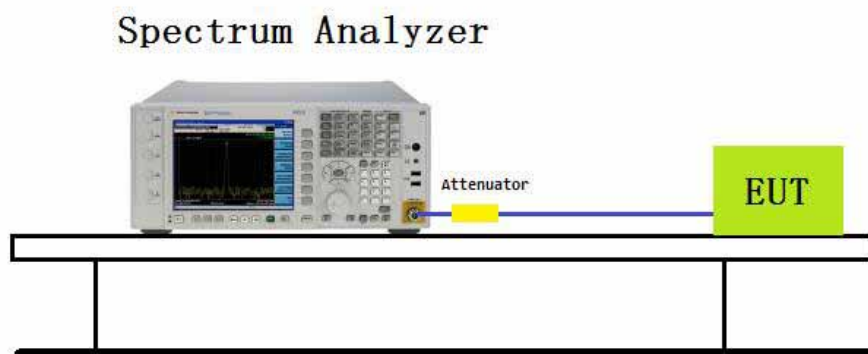
9.2 Test Standard

ANSI C63.10-2013- Section 7.8.3

9.3 Test Procedures

1. $RBW \leq 30\%$ of the channel spacing or the 20dB bandwidth
2. $VBW \geq RBW$
3. Span=The frequency band of operation
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

9.4 Test Setup Layout



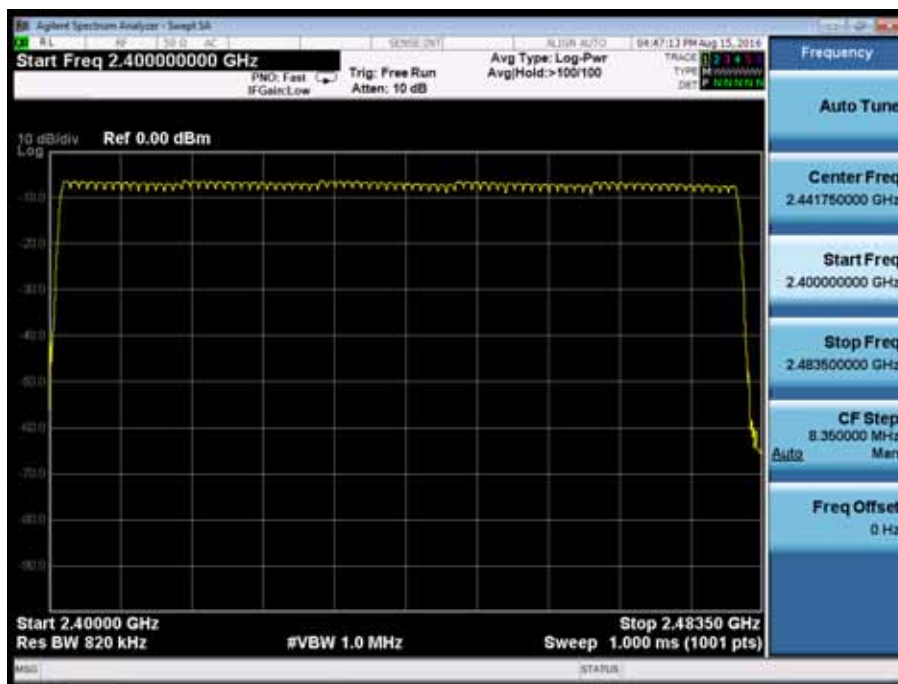


9.5 Test Result

Test Item	:	Number of Hopping Frequencies
Test Mode	:	Mode 1: Transmit by DH5

Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz

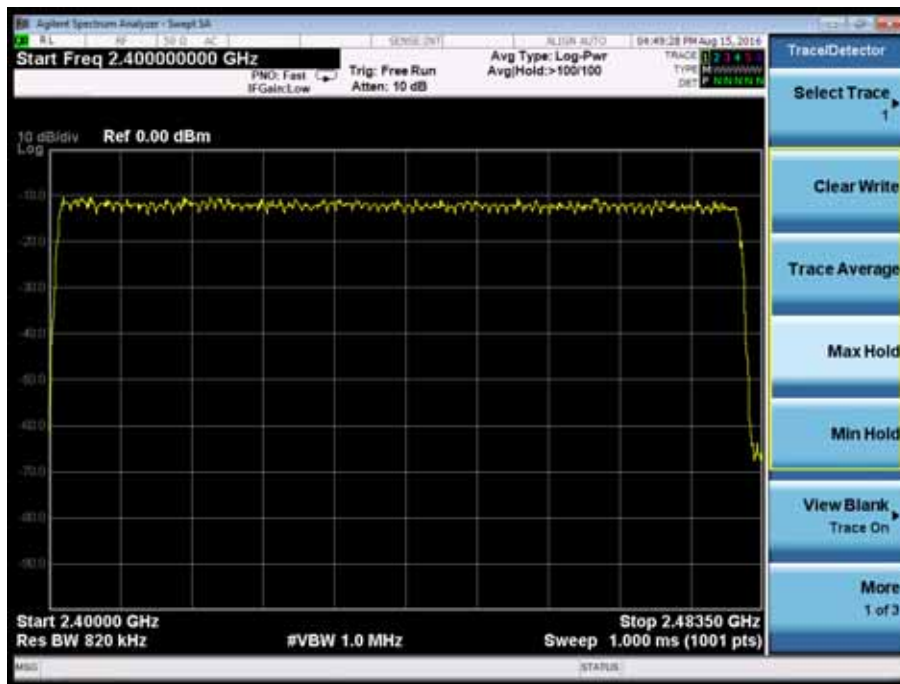




Test Item	:	Number of Hopping Frequencies
Test Mode	:	Mode 2: Transmit by 2DH5

Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz

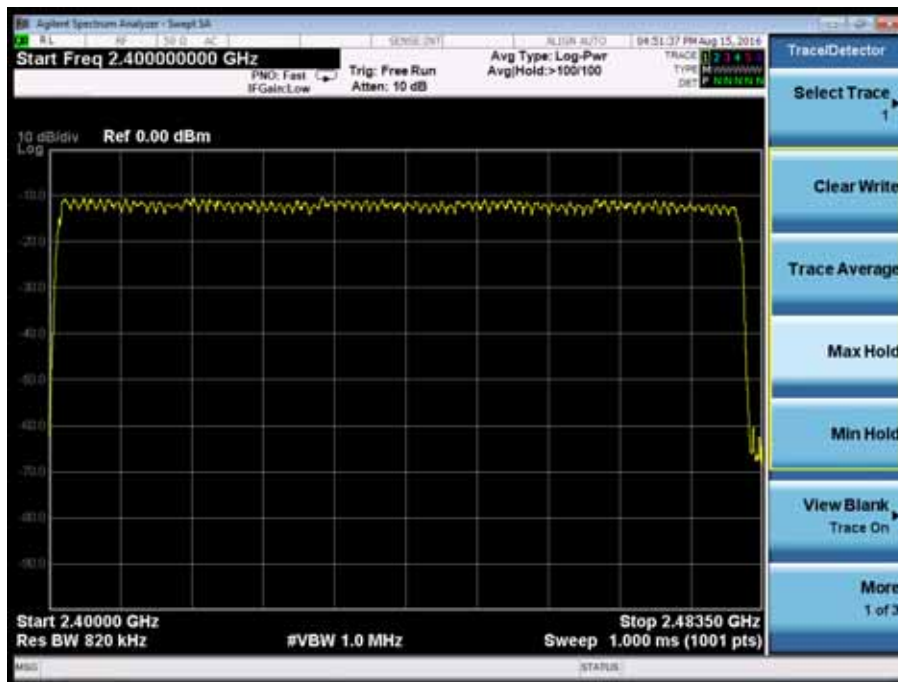




Test Item	:	Number of Hopping Frequencies
Test Mode	:	Mode 3: Transmit by 3DH5

Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz





10. Peak Output Power Measurement

10.1 Test Limit

The Maximum Peak Output Power Measurement is 125mW (20.97dBm).

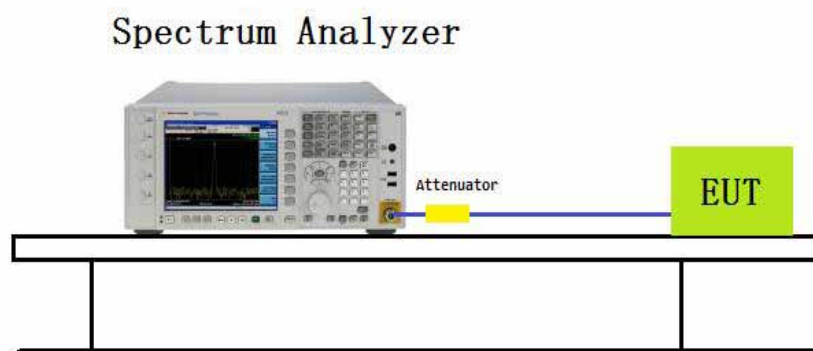
10.2 Test Standard

ANSI C63.10-2013- Section 7.8.5

10.3 Test Procedures

1. $RBW \geq$ the 20dB bandwidth of the emission being measured
2. $VBW \geq 3 \times RBW$
3. Span=Approximately 5 times the 20dB bandwidth, centered on a hopping channel
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize, Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power(don't forget added the external attenuation and cable loss)

10.4 Test Setup Layout

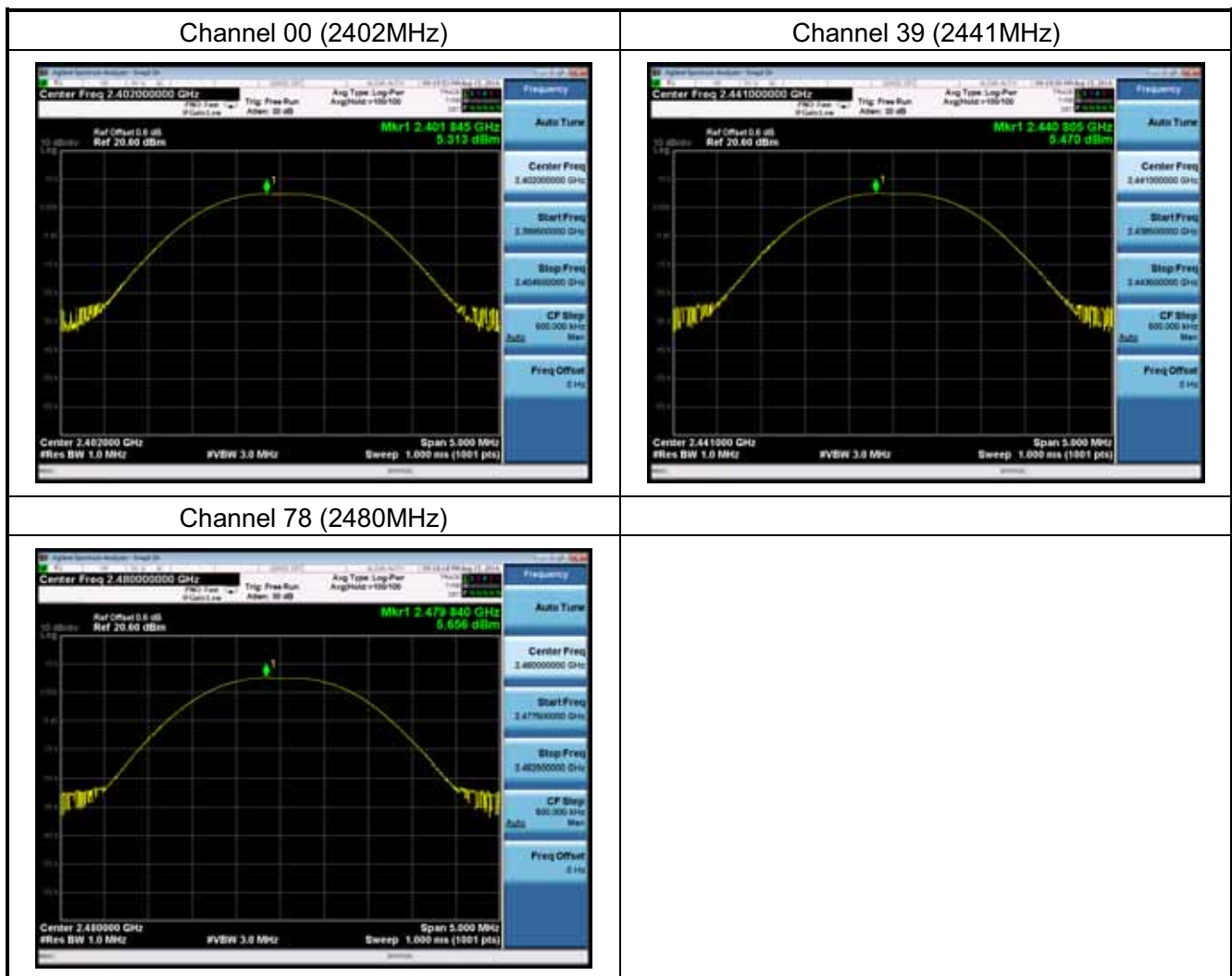




10.5 Test Result

Test Item	:	Peak Output Power
Test Mode	:	Mode 1: Transmit by DH5

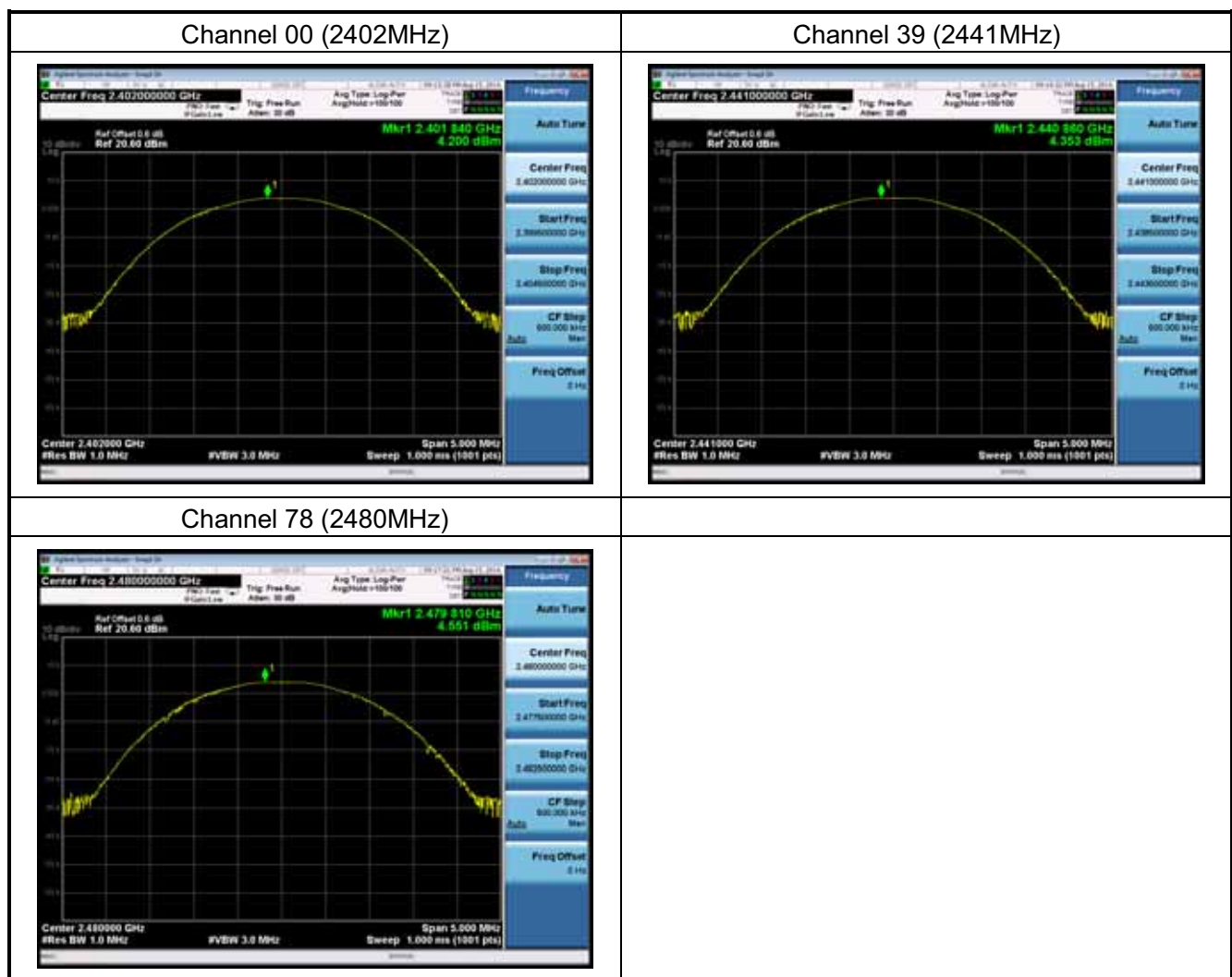
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	5.313	20.97	Pass
39	2441	5.470	20.97	Pass
78	2480	5.656	20.97	Pass





Test Item	:	Peak Output Power
Test Mode	:	Mode 2: Transmit by 2DH5

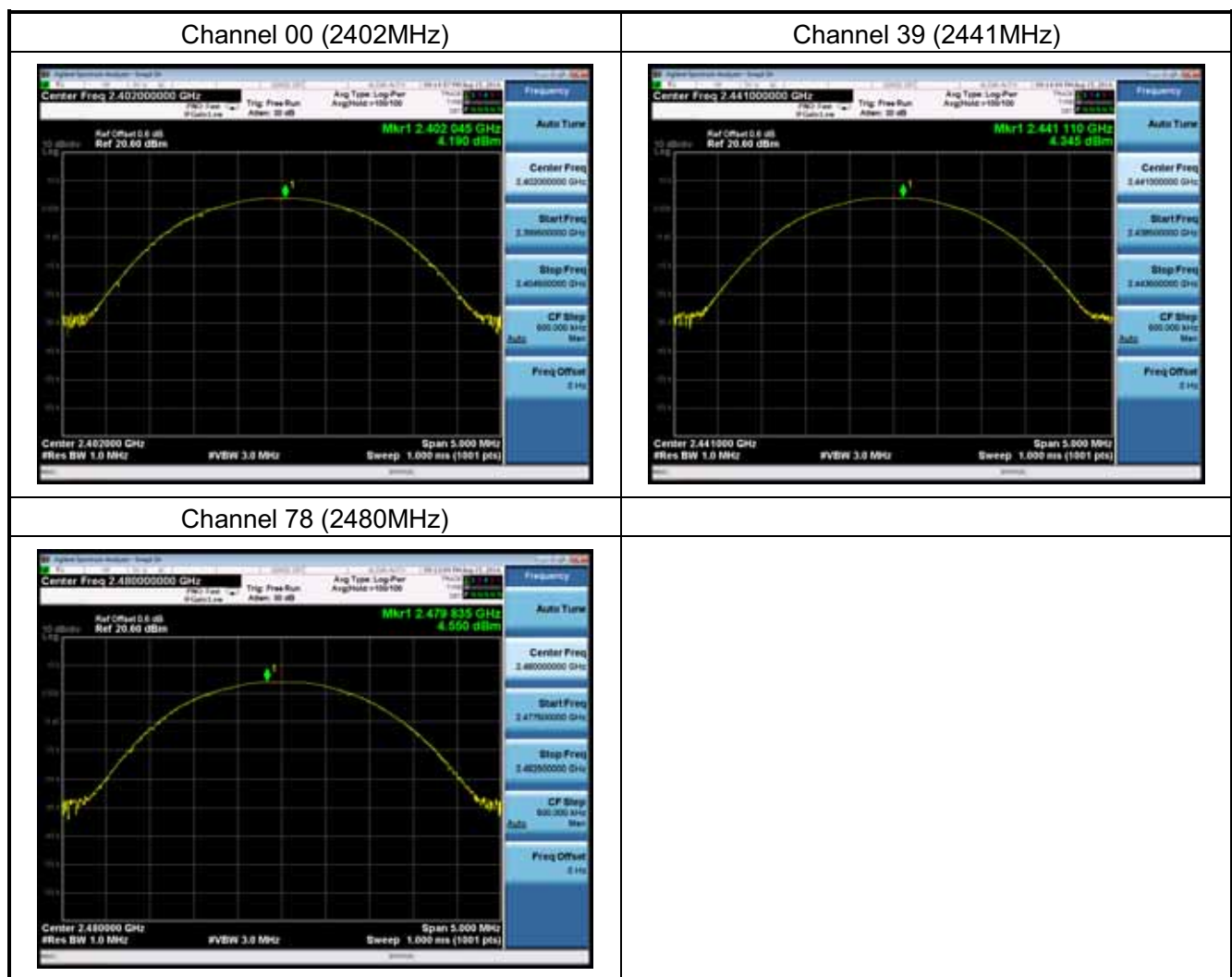
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	4.200	20.97	Pass
39	2441	4.353	20.97	Pass
78	2480	4.551	20.97	Pass





Test Item	:	Peak Output Power
Test Mode	:	Mode 3: Transmit by 3DH5

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	4.190	20.97	Pass
39	2441	4.345	20.97	Pass
78	2480	4.550	20.97	Pass





11. Band-edge Compliance & Conducted Spurious Emissions Measurement

11.1 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) of FCC part 15 is not required.

11.2 Test Standard

Band-edge Compliance:

ANSI C63.10-2013 Section 7.8.6

Conducted Spurious Emissions:

ANSI C63.10-2013 Section 7.8.8



11.3 Test Procedures

Band-edge Compliance:

1. RBW \geq 1% of spectrum analyzer display span
2. VBW \geq RBW
3. Span= Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, than use the marker-to-peak function to move the marker to the peak of the in-band emission.

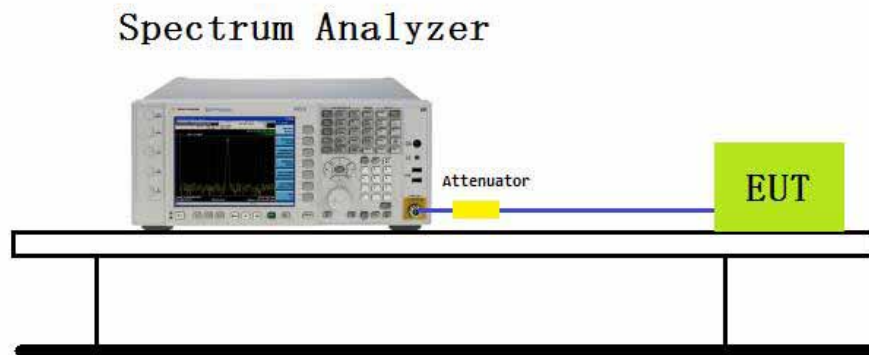
Conducted Spurious Emissions:

1. RBW=100kHz
2. VBW=300kHz
3. Span= Wide enough to capture the peak level of the in-band emission all spurious emissions(e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.



11.4 Test Setup Layout

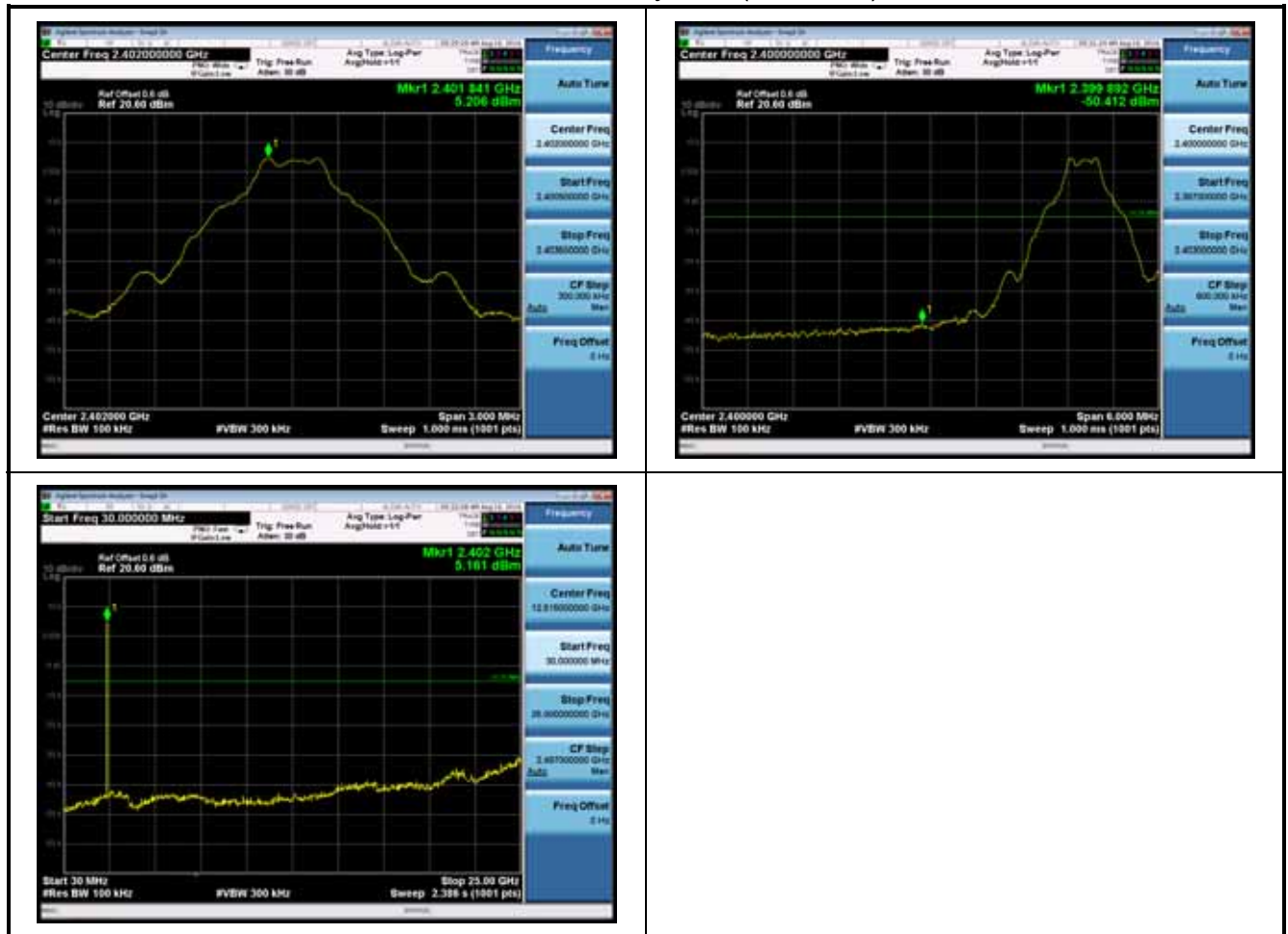




11.5 Test Result

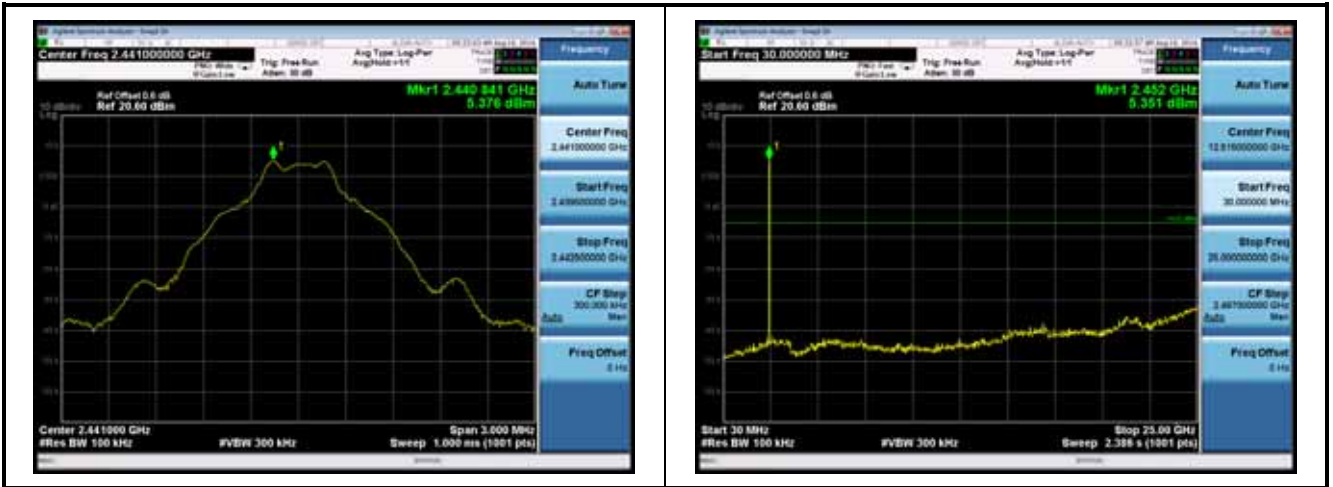
Test Item	: Band-edge Compliance & Conducted Spurious Emissions
Test Mode	: Mode 1: Transmit by DH5

Mode 1: Transmit by DH5 (2402MHz)

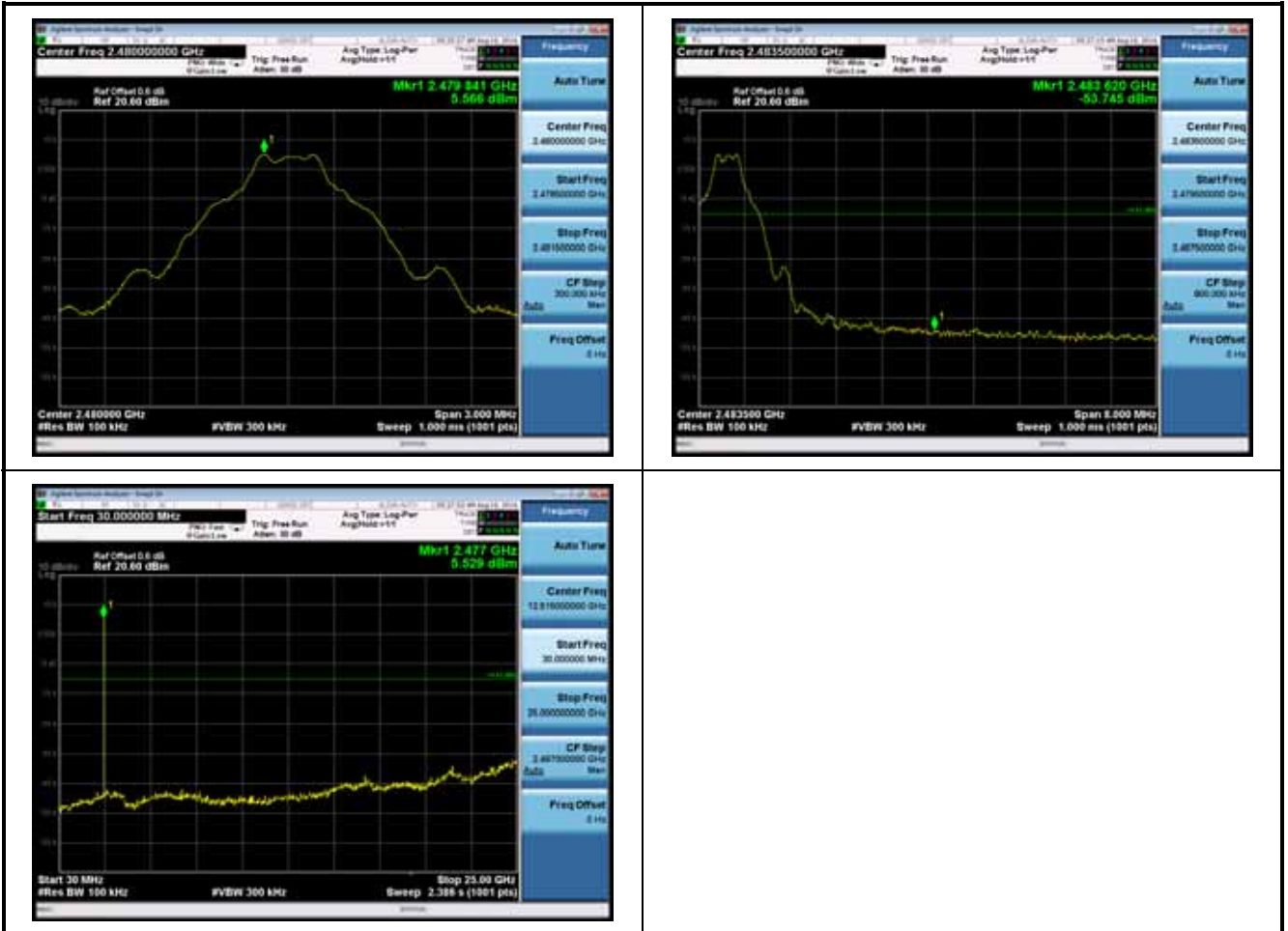




Mode 1: Transmit by DH5 (2441MHz)



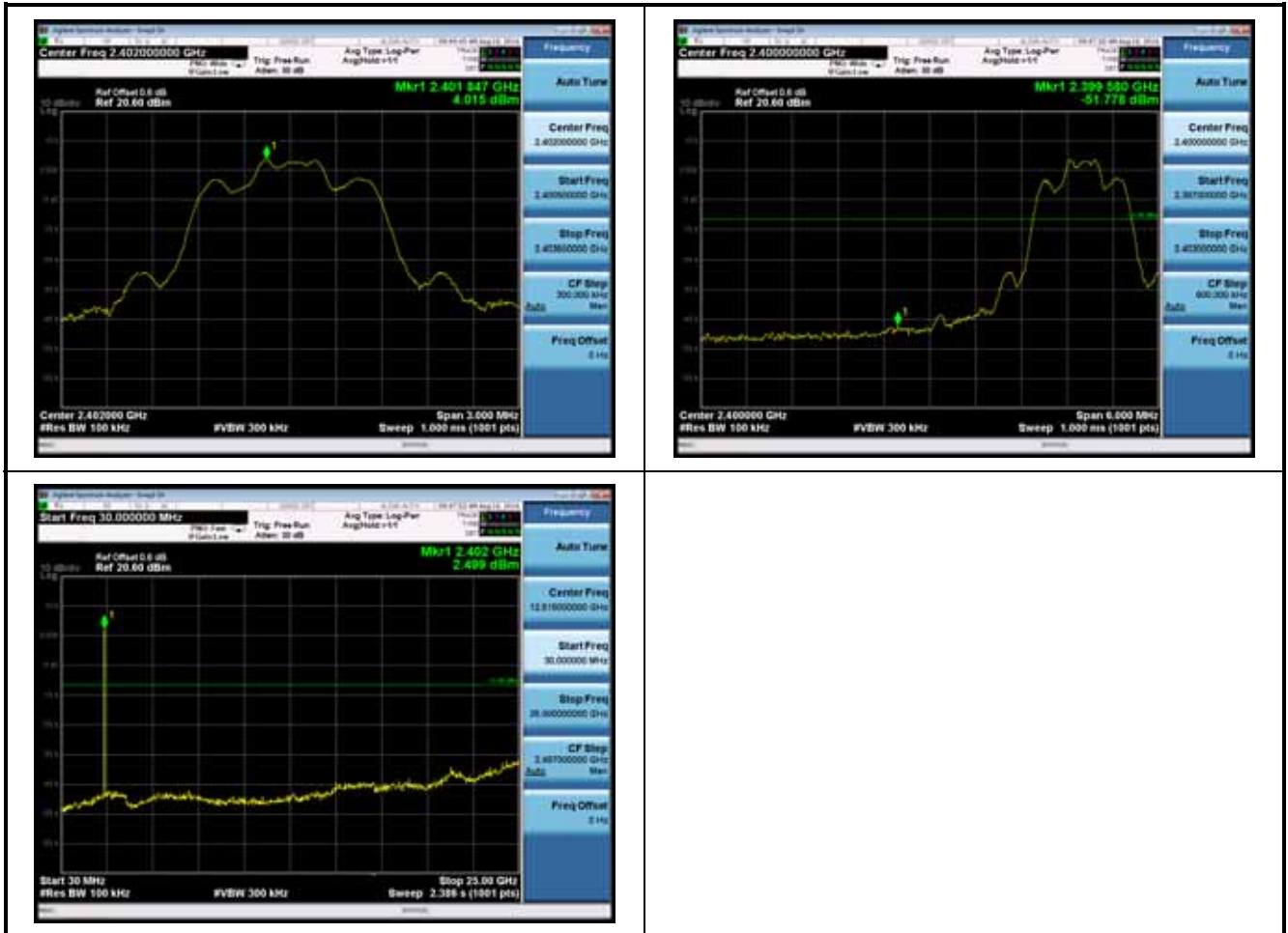
Mode 1: Transmit by DH5 (2480MHz)





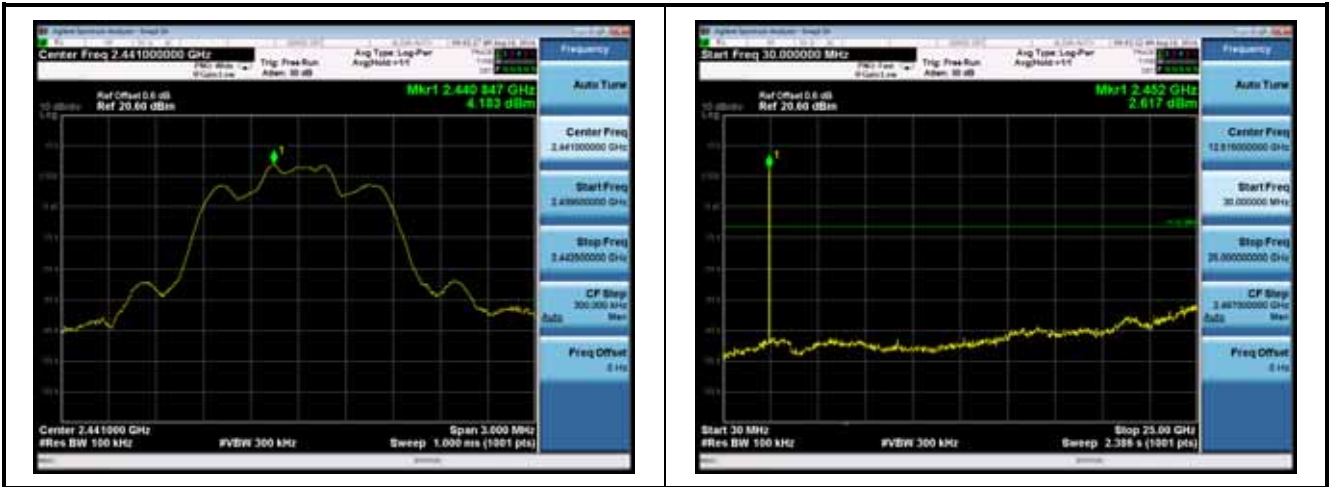
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 2: Transmit by 2DH5

Mode 2: Transmit by 2DH5 (2402MHz)

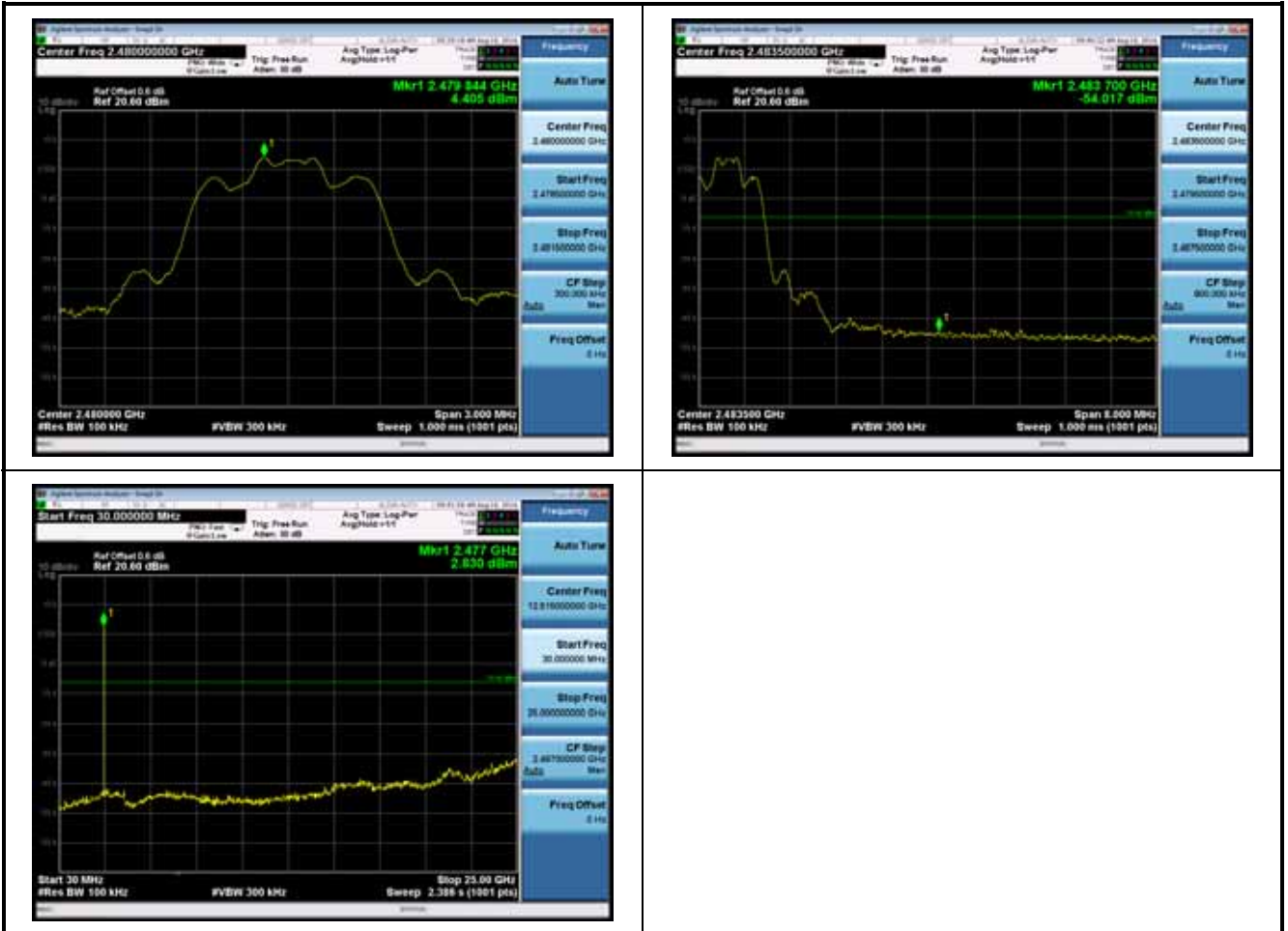




Mode 2: Transmit by 2DH5 (2441MHz)



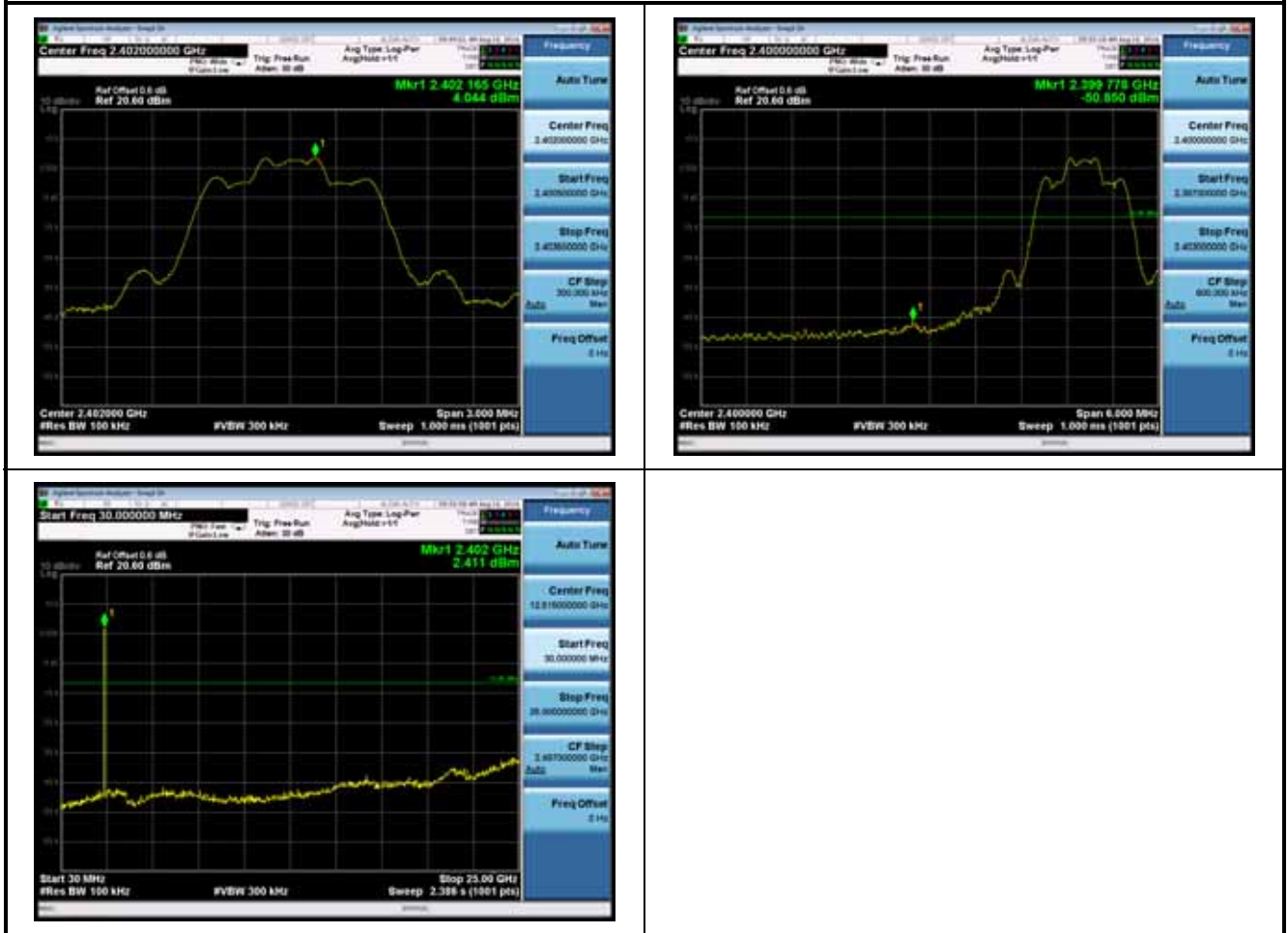
Mode 2: Transmit by 2DH5 (2480MHz)





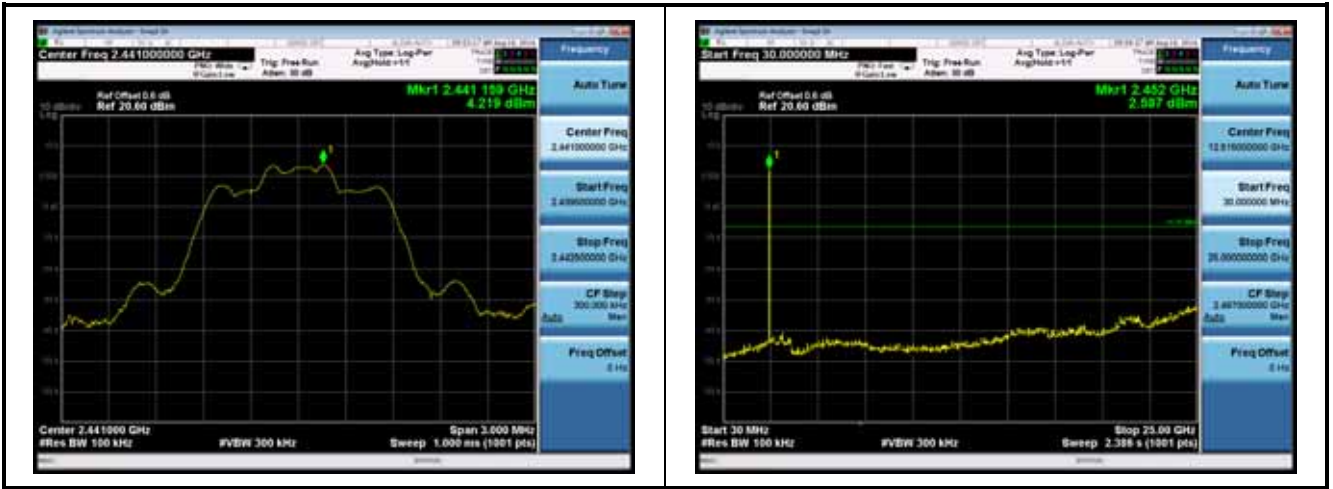
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 3: Transmit by 3DH5

Mode 3: Transmit by 3DH5 (2402MHz)

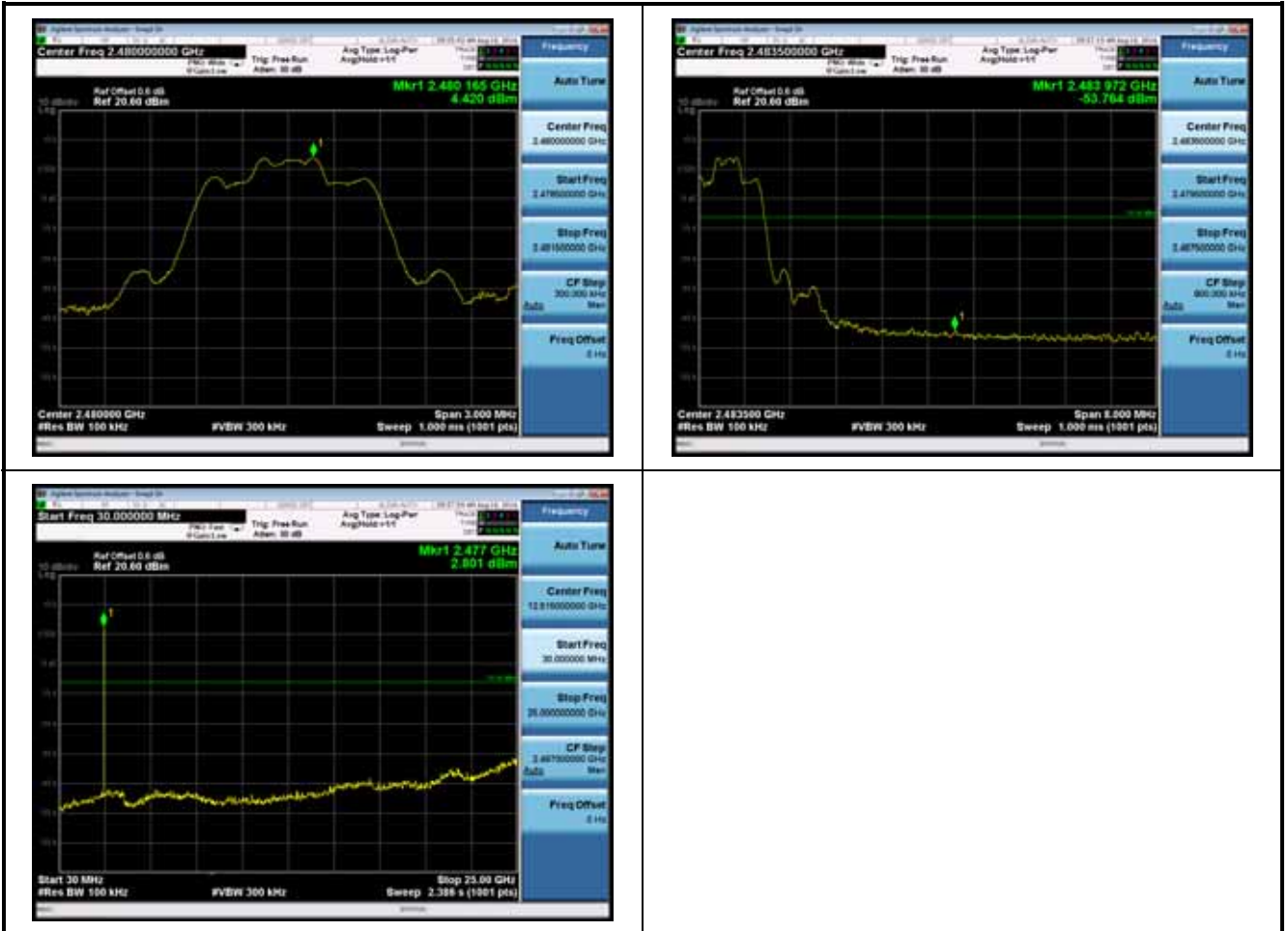




Mode 3: Transmit by 3DH5 (2441MHz)



Mode 3: Transmit by 3DH5 (2480MHz)





12. Radiated Emission Band Edge Measurement

12.1 Test Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) of FCC part 15.

12.2 Test Standard

ANSI C63.10-2013 Section 6.10.5

12.3 Test Procedure

Peak Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

7. RBW=As specified in Table 1
8. VBW=3×RBW
9. Detector=Peak
10. Trace mode=Max hold
11. Sweep time=Auto couple
12. Allow the trace to stabilize

Table 1-RBW as a function of frequency

Frequency	RBW
9 ~ 150kHz	200 ~ 300Hz
0.15 ~ 30MHz	9 ~ 10kHz
30 ~ 1000MHz	100 ~ 120kHz
> 1000MHz	1MHz



AVE Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

7. RBW= 1MHz

8. VBW \geq 1/T

9. Detector=Peak

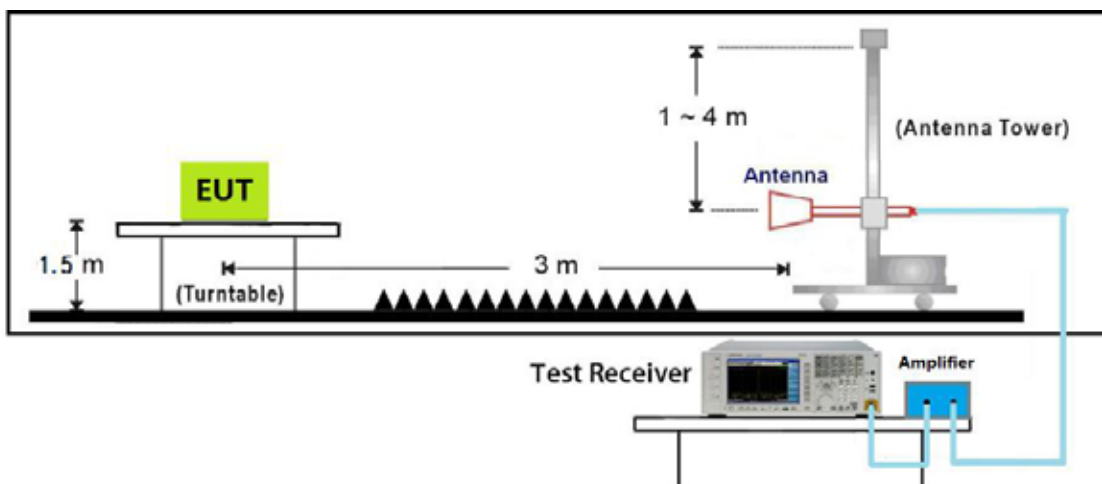
10. Trace mode=Max hold

11. Sweep time=Auto couple

12. Allow max hold to run for at least 50 times(1/duty cycle) trace

Do as an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode

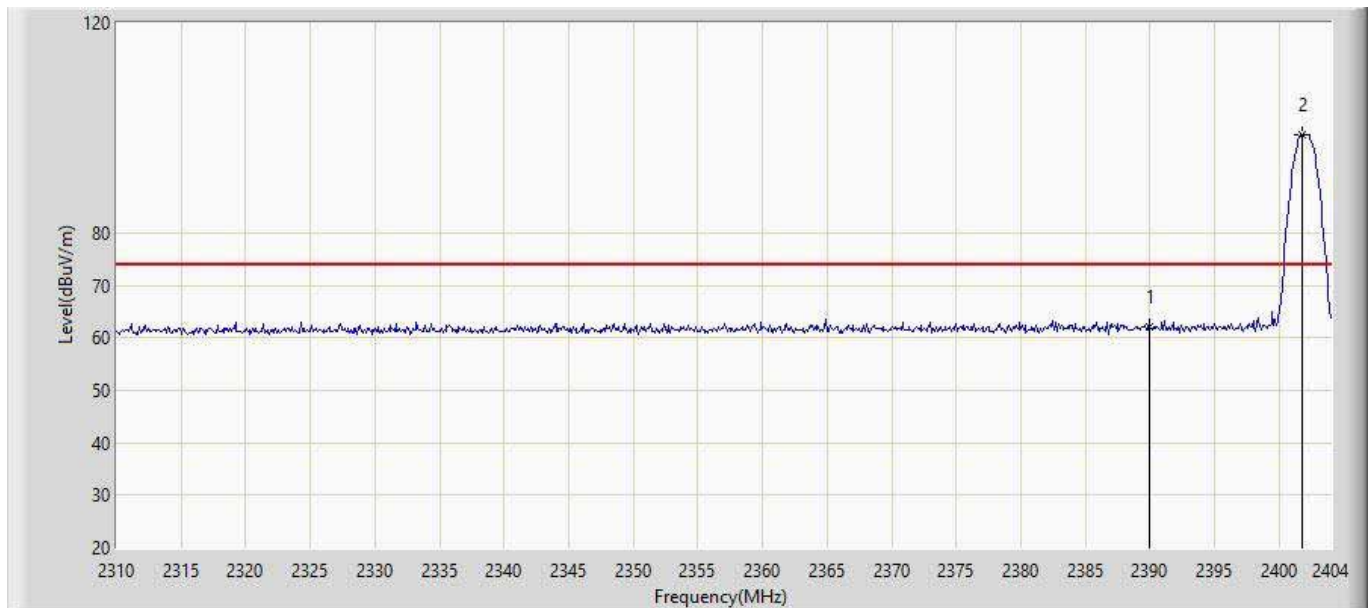
12.4 Test Setup Layout





12.5 Test Result

Site: AC102	Time: 2016/08/14 - 16:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2402MHz	



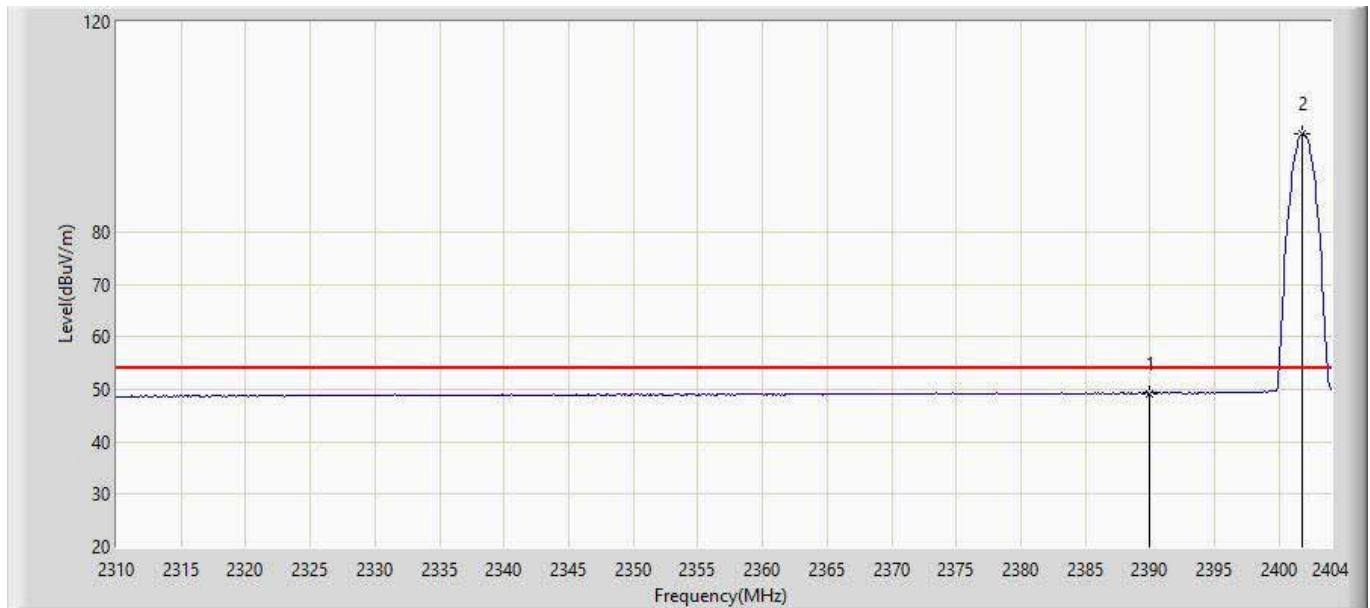
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	61.942	28.831	-12.058	74.000	33.111	PK
2	*	2401.744	98.730	65.571	N/A	N/A	33.160	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2402MHz	



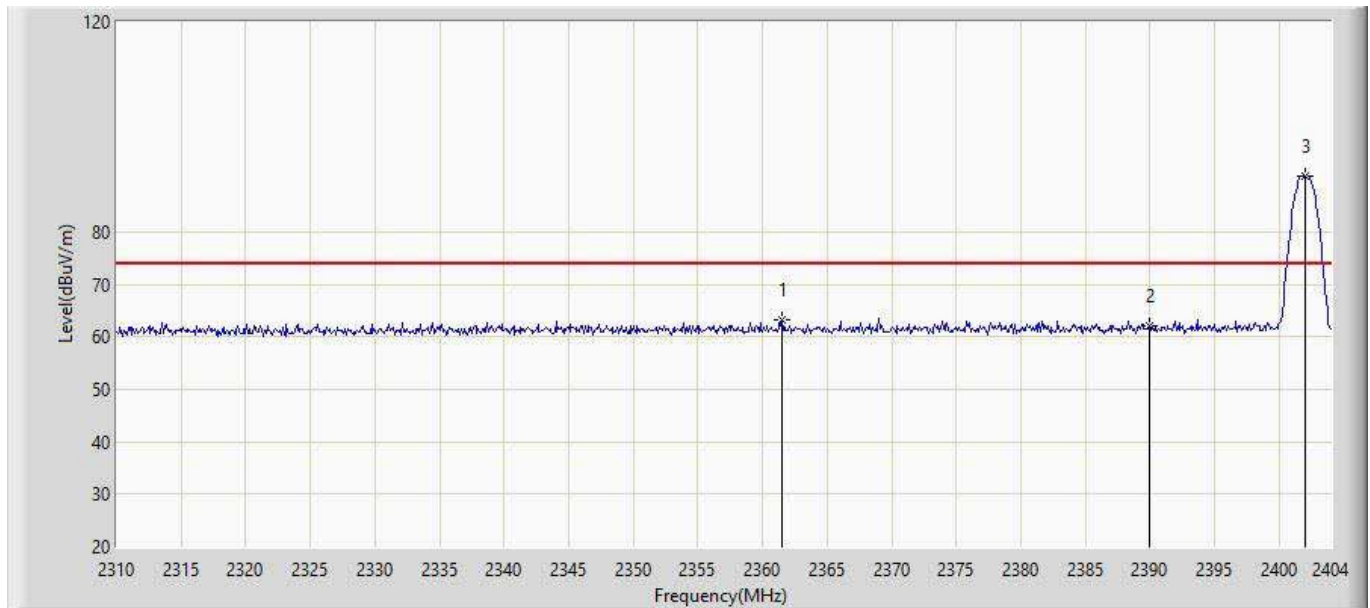
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.250	16.139	-4.750	54.000	33.111	AV
2	*	2401.744	98.587	65.428	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2402MHz	



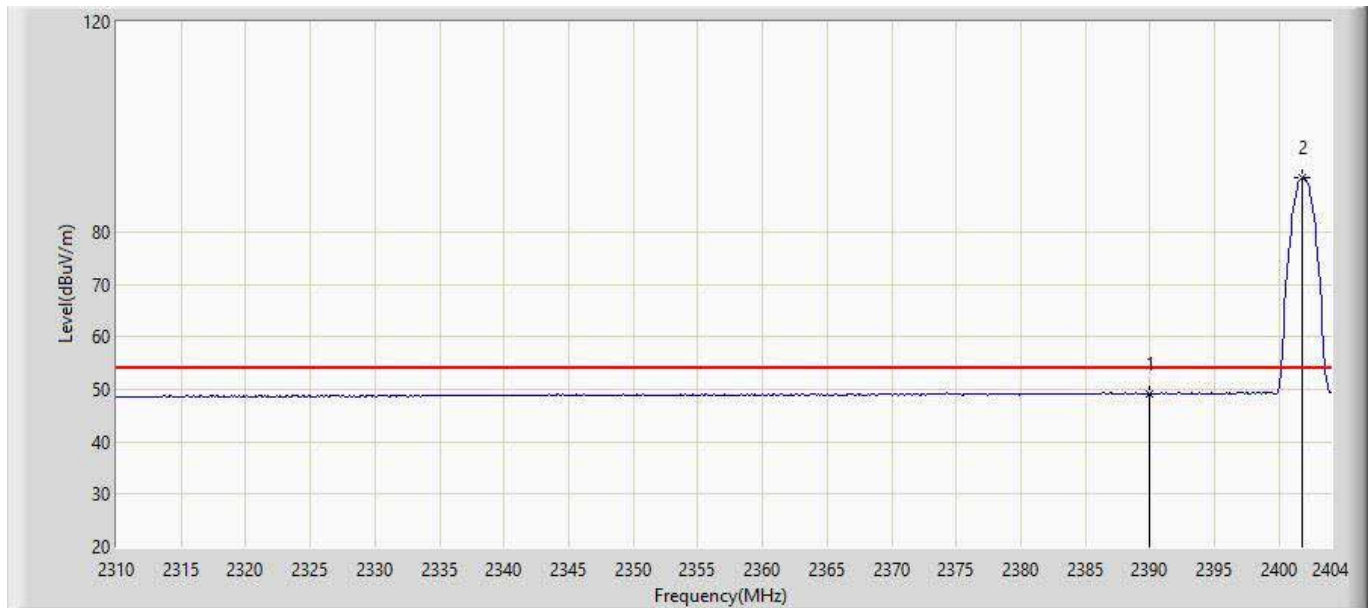
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2361.512	63.318	30.323	-10.682	74.000	32.995	PK
2		2390.000	61.940	28.829	-12.060	74.000	33.111	PK
3	*	2402.026	90.689	57.528	N/A	N/A	33.161	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2402MHz	



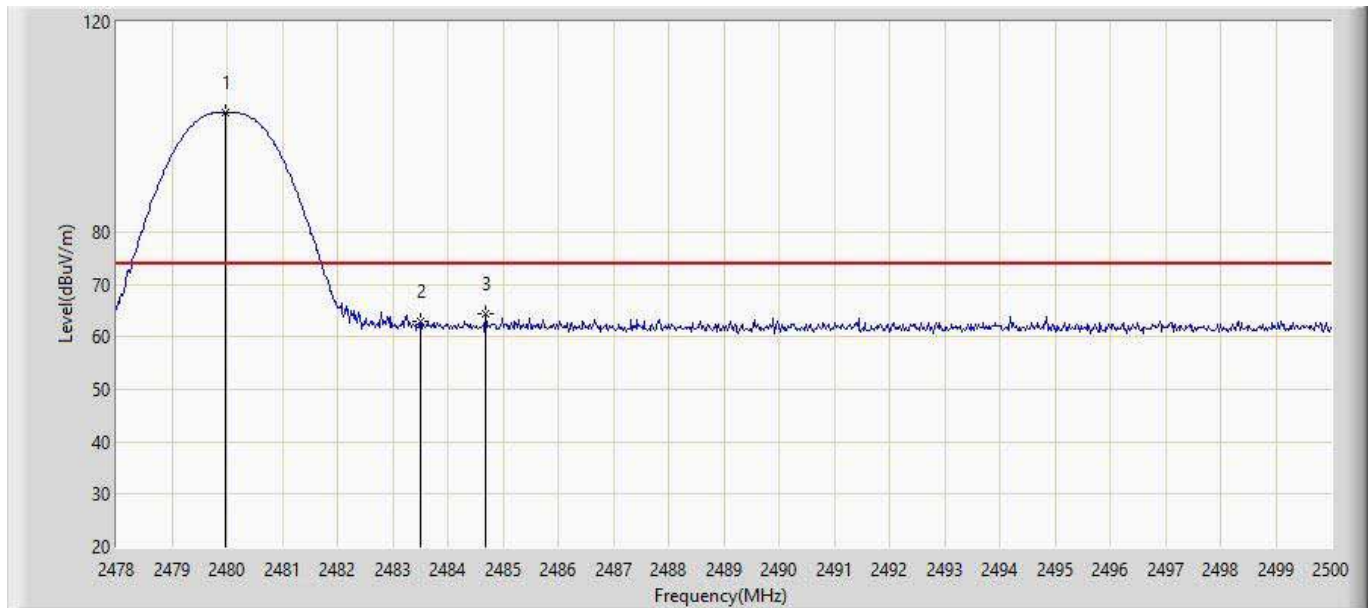
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.107	15.996	-4.893	54.000	33.111	AV
2	*	2401.744	90.400	57.241	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2480MHz	



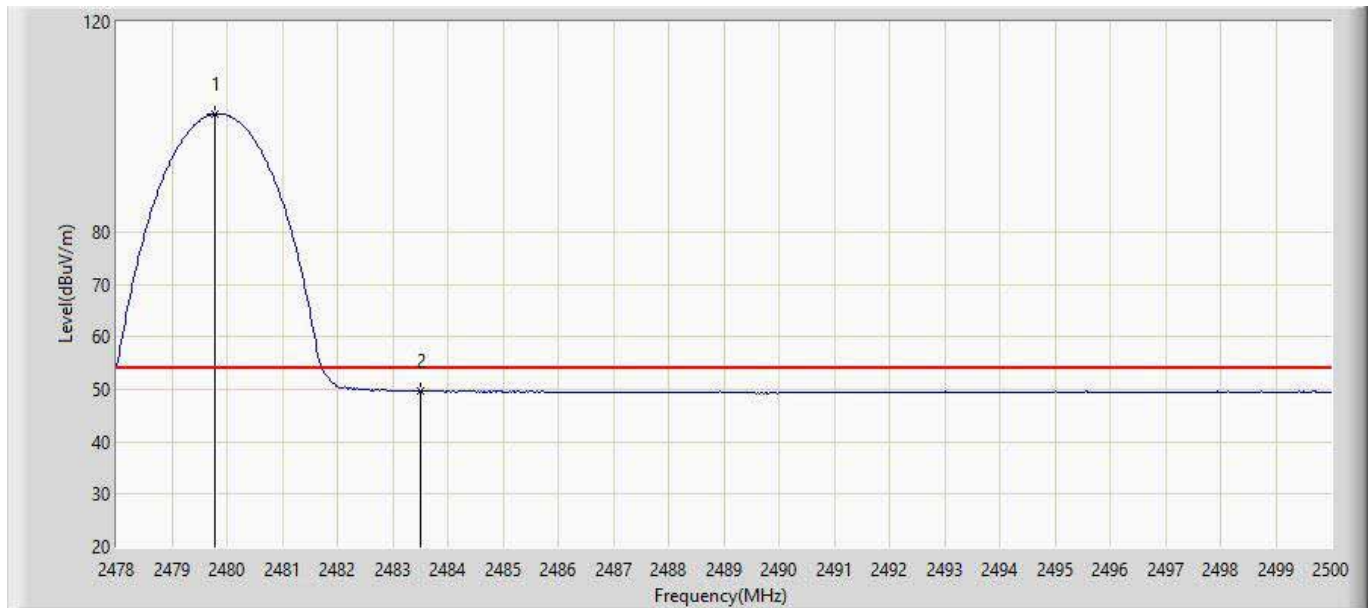
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.980	102.640	69.162	N/A	N/A	33.478	PK
2		2483.500	62.905	29.413	-11.095	74.000	33.493	PK
3		2484.688	64.266	30.769	-9.734	74.000	33.497	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2480MHz	



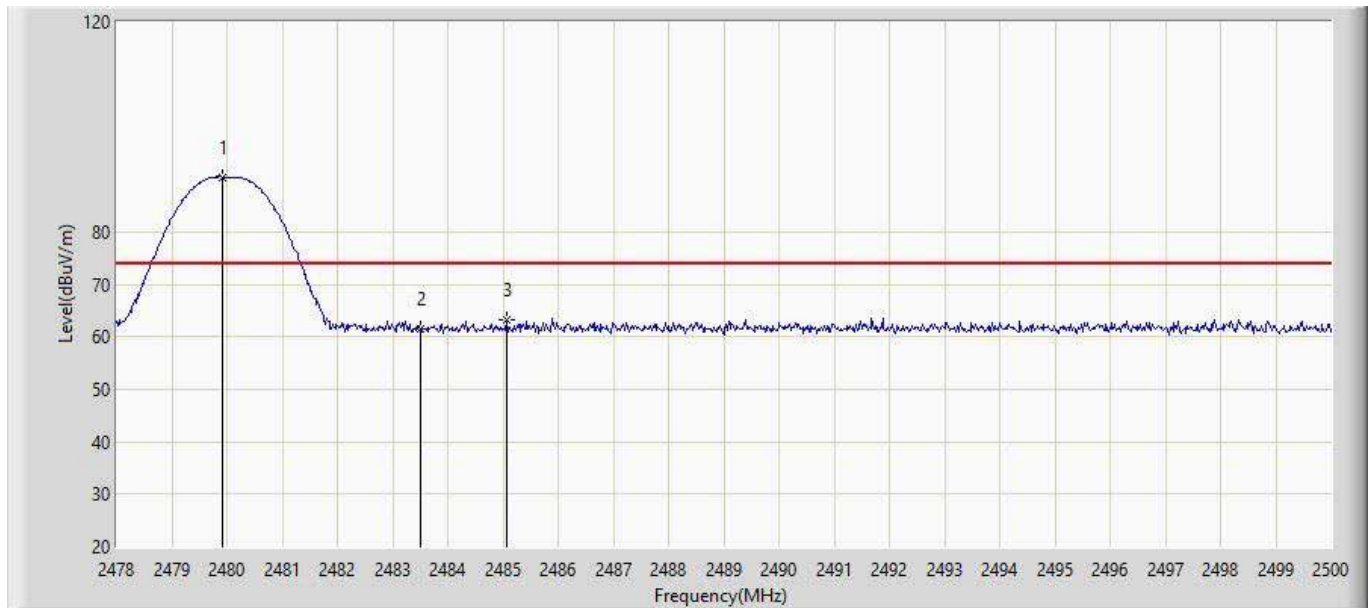
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.782	102.464	68.986	N/A	N/A	33.477	AV
2		2483.500	49.624	16.132	-4.376	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2480MHz	



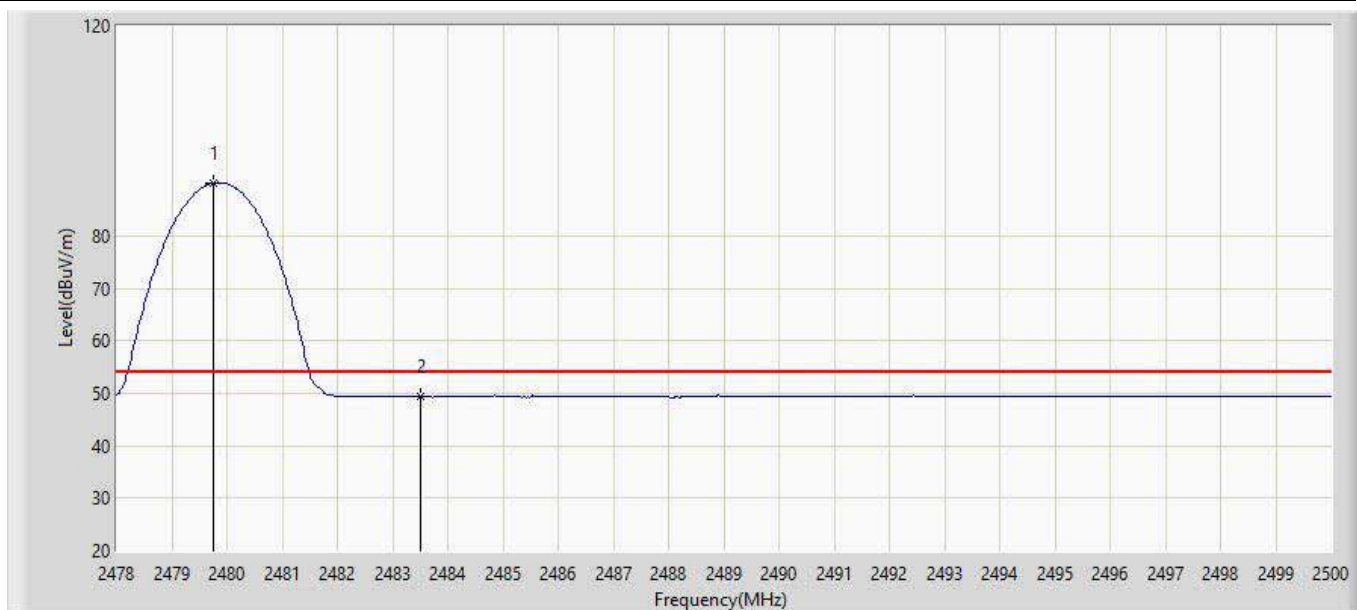
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.914	90.459	56.981	N/A	N/A	33.478	PK
2		2483.500	61.461	27.969	-12.539	74.000	33.493	PK
3		2485.062	63.344	29.845	-10.656	74.000	33.499	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit DH5 at 2480MHz	



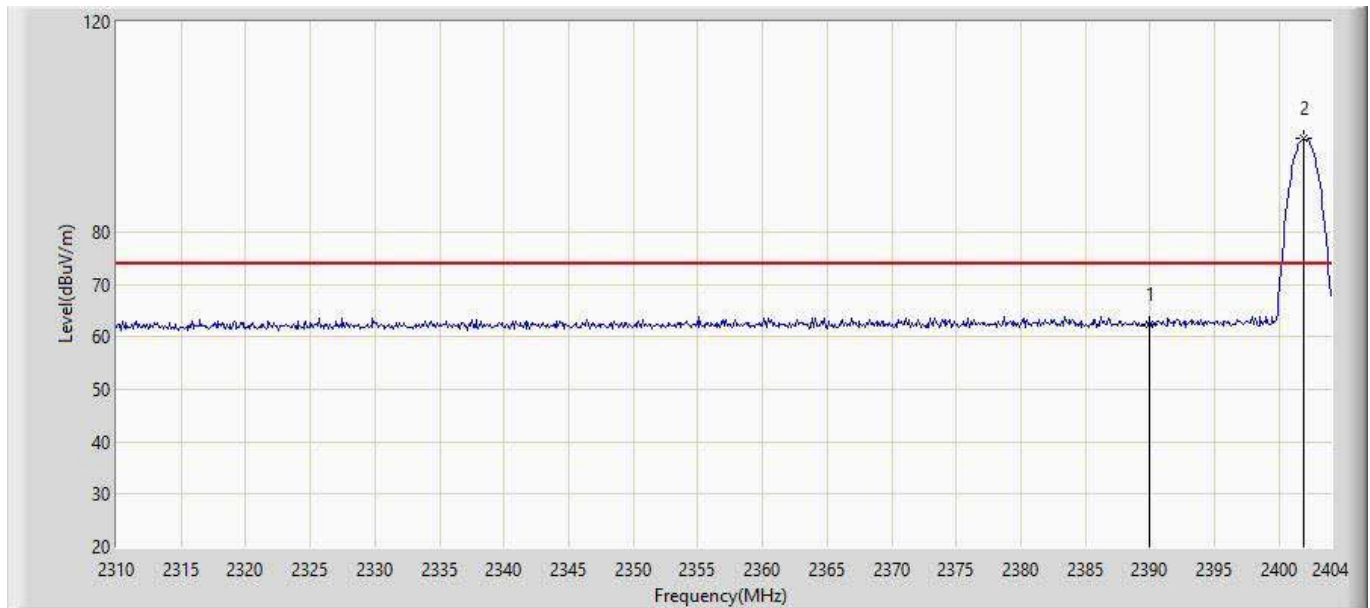
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.760	90.104	56.627	N/A	N/A	33.477	AV
2		2483.500	49.303	15.811	-4.697	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2402MHz	



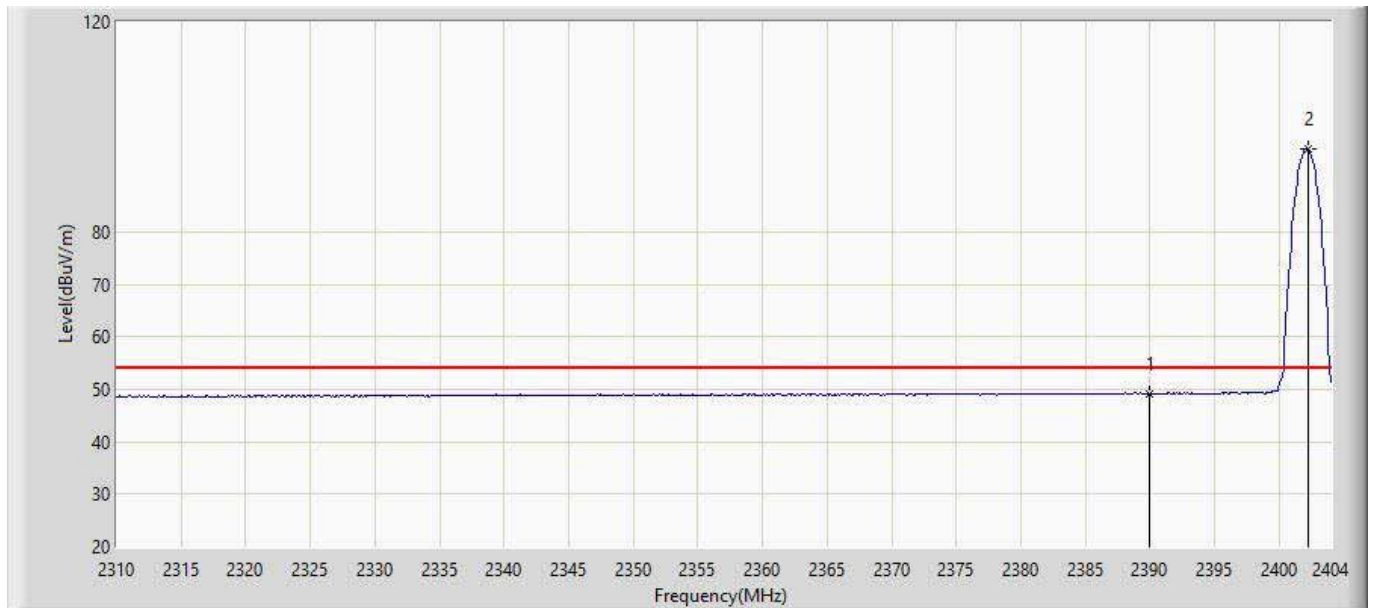
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.337	29.226	-11.663	74.000	33.111	PK
2	*	2401.932	97.738	64.578	N/A	N/A	33.160	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2402MHz	



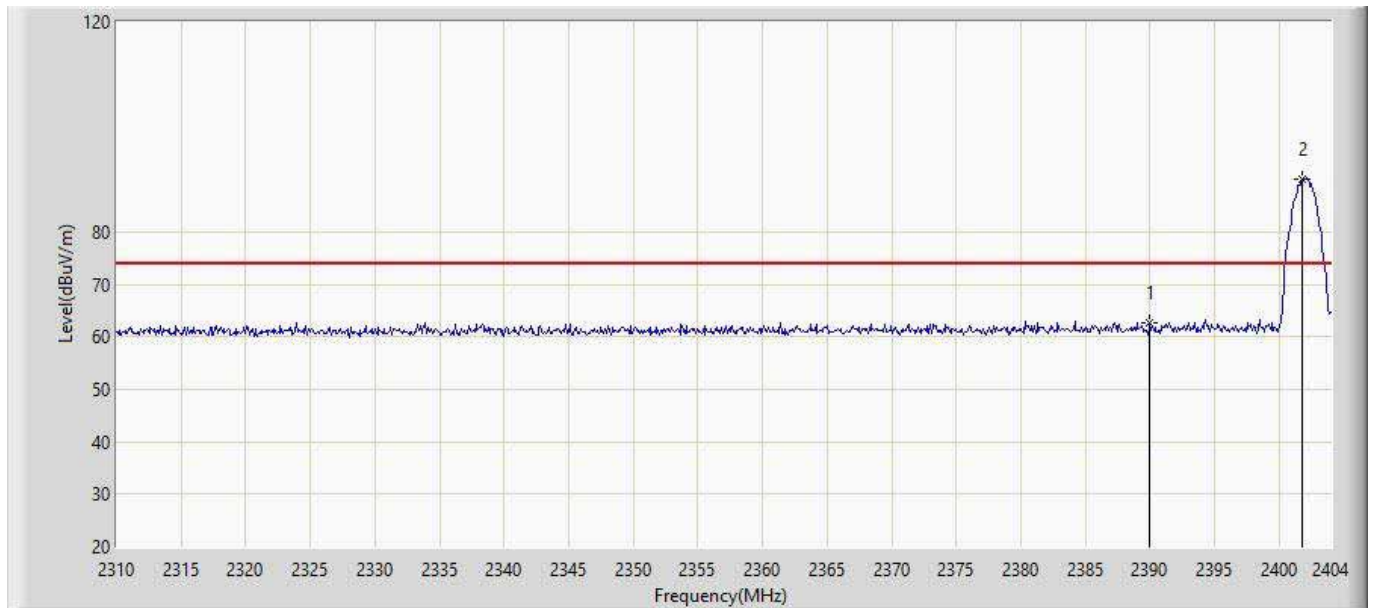
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.222	16.111	-4.778	54.000	33.111	AV
2	*	2402.214	95.691	62.530	N/A	N/A	33.162	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2402MHz	



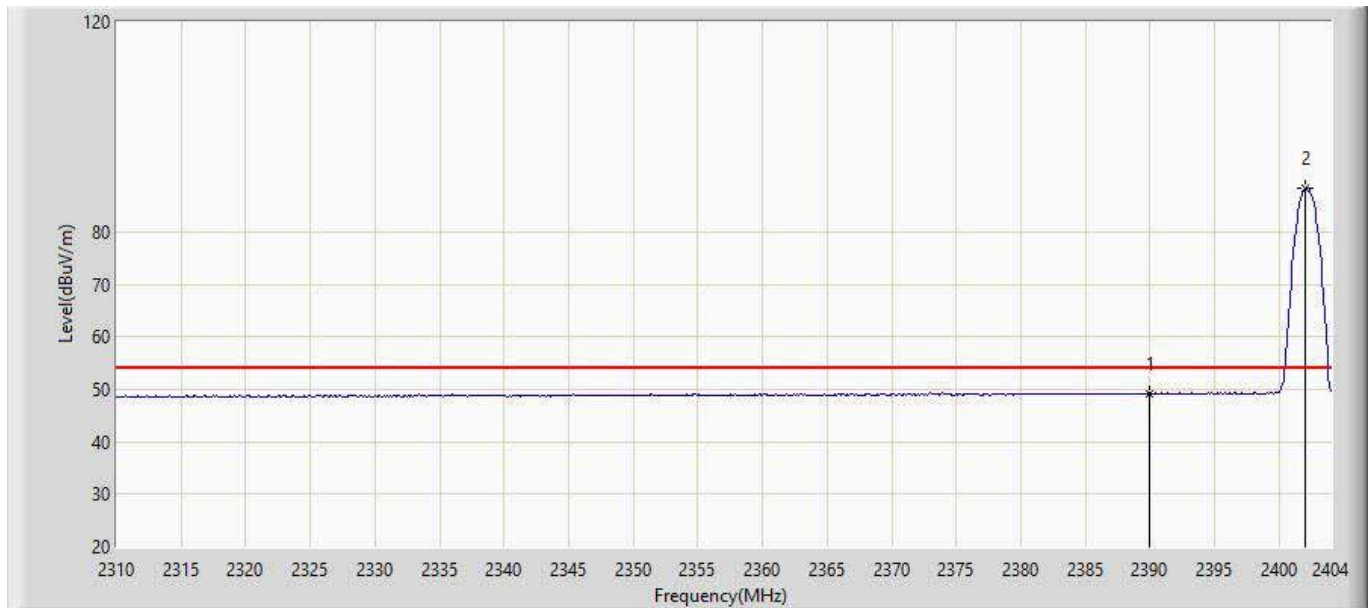
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.592	29.481	-11.408	74.000	33.111	PK
2	*	2401.744	90.085	56.926	N/A	N/A	33.160	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 16:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2402MHz	



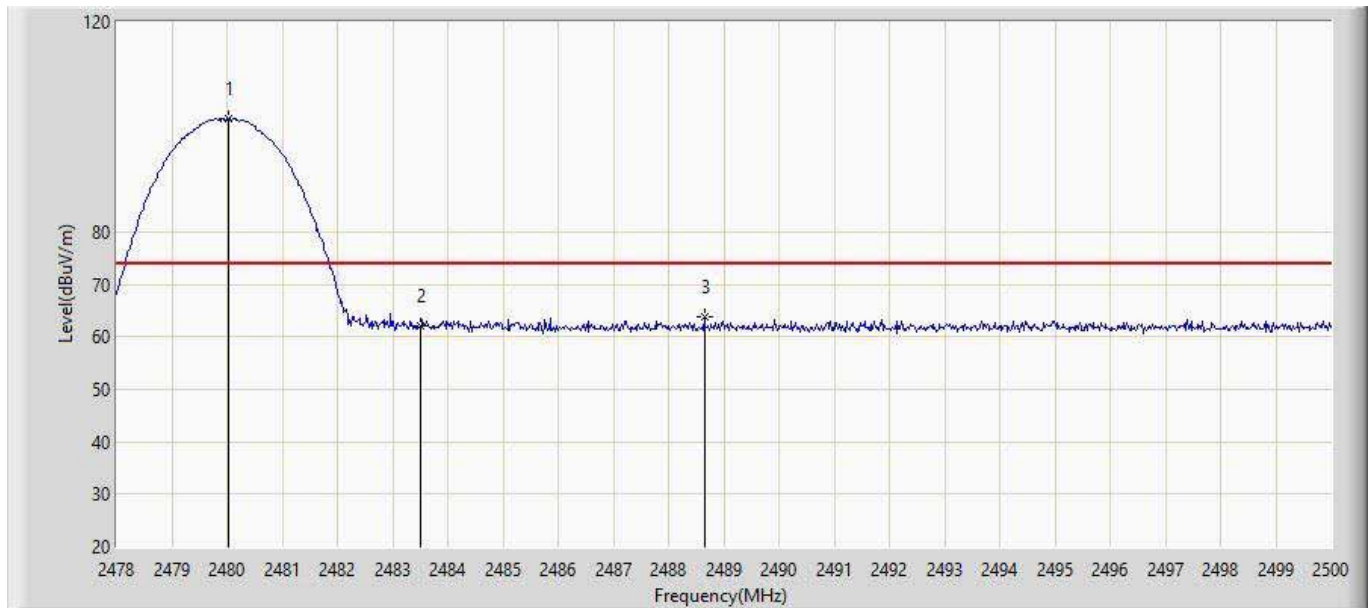
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.186	16.075	-4.814	54.000	33.111	AV
2	*	2402.026	88.358	55.197	N/A	N/A	33.161	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2480MHz	



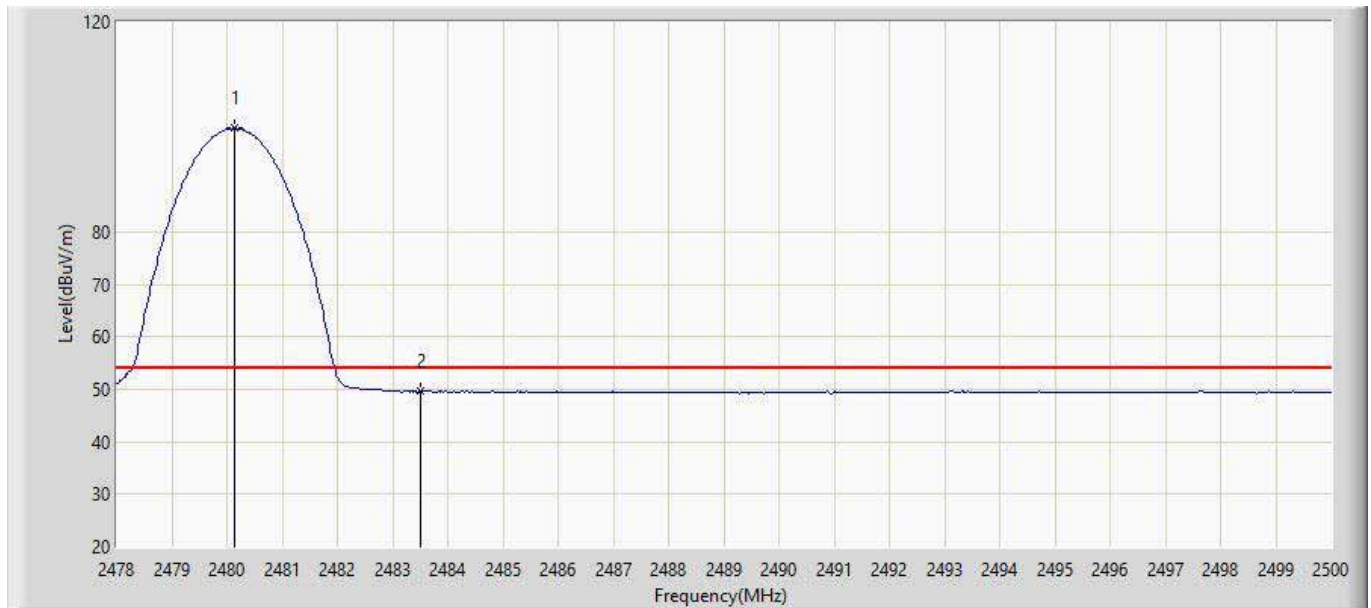
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	101.413	67.934	N/A	N/A	33.479	PK
2		2483.500	62.039	28.547	-11.961	74.000	33.493	PK
3		2488.648	63.743	30.230	-10.257	74.000	33.514	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2480MHz	



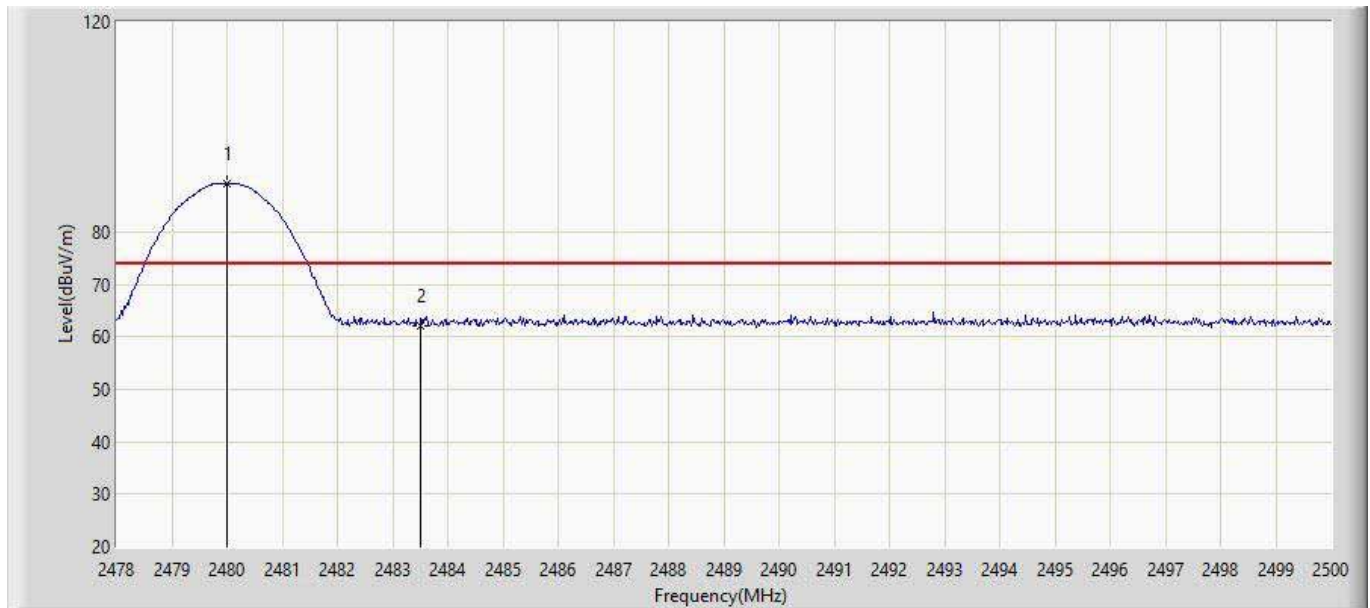
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.134	99.685	66.206	N/A	N/A	33.479	AV
2		2483.500	49.643	16.151	-4.357	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2480MHz	



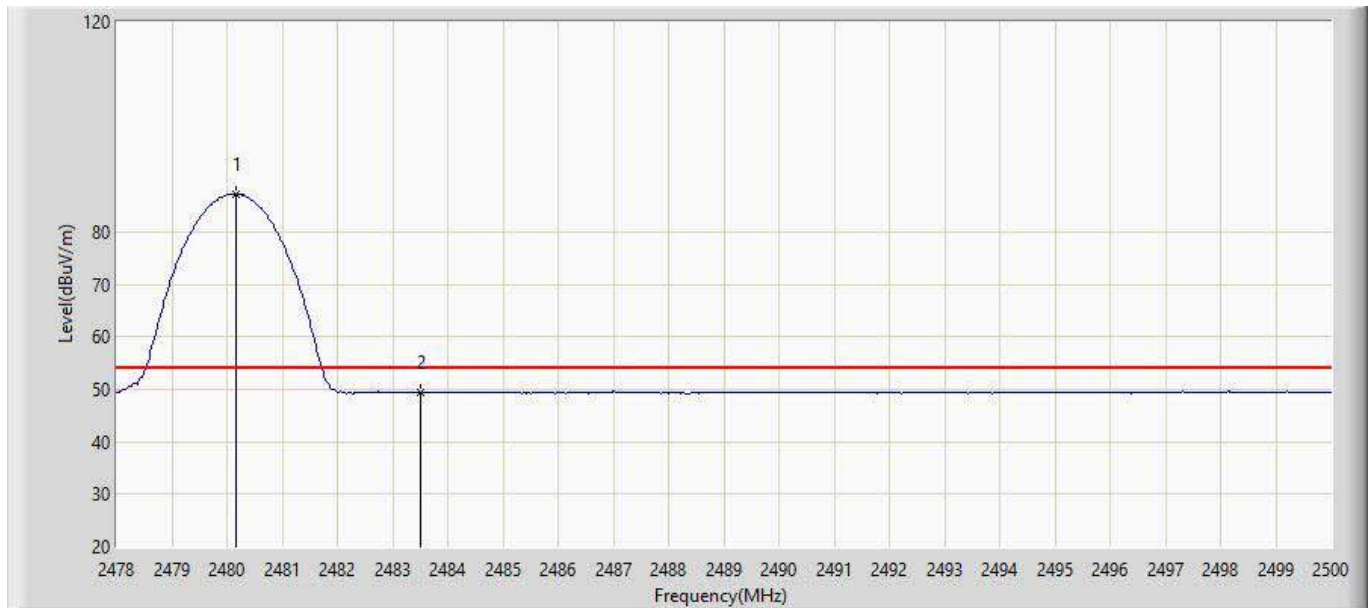
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.002	89.106	55.628	N/A	N/A	33.478	PK
2		2483.500	62.108	28.616	-11.892	74.000	33.493	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 2DH5 at 2480MHz	



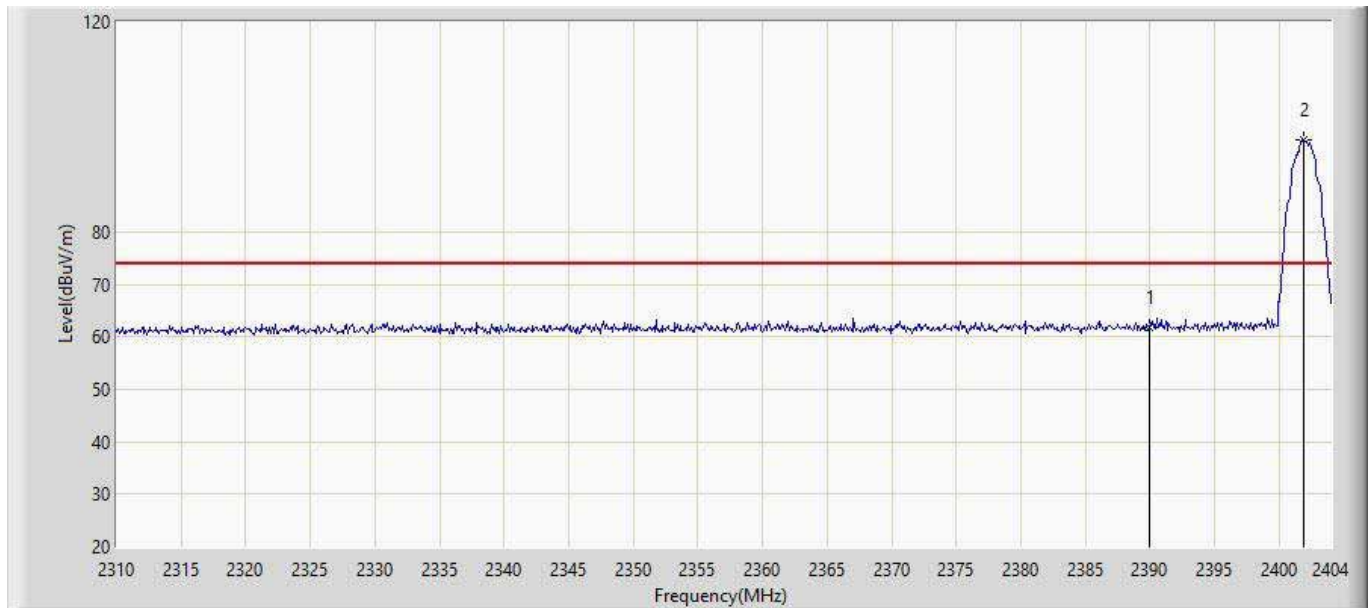
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.156	87.163	53.684	N/A	N/A	33.479	AV
2		2483.500	49.388	15.896	-4.612	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2402MHz	



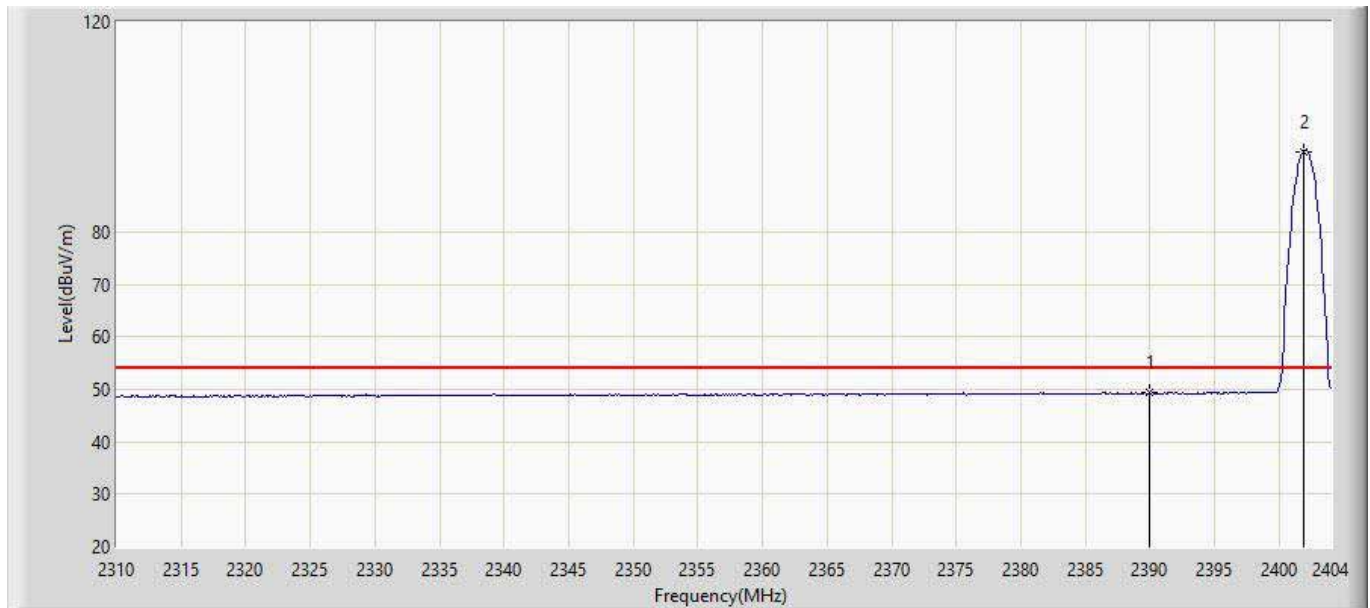
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	61.657	28.546	-12.343	74.000	33.111	PK
2	*	2401.838	97.552	64.392	N/A	N/A	33.160	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2402MHz	



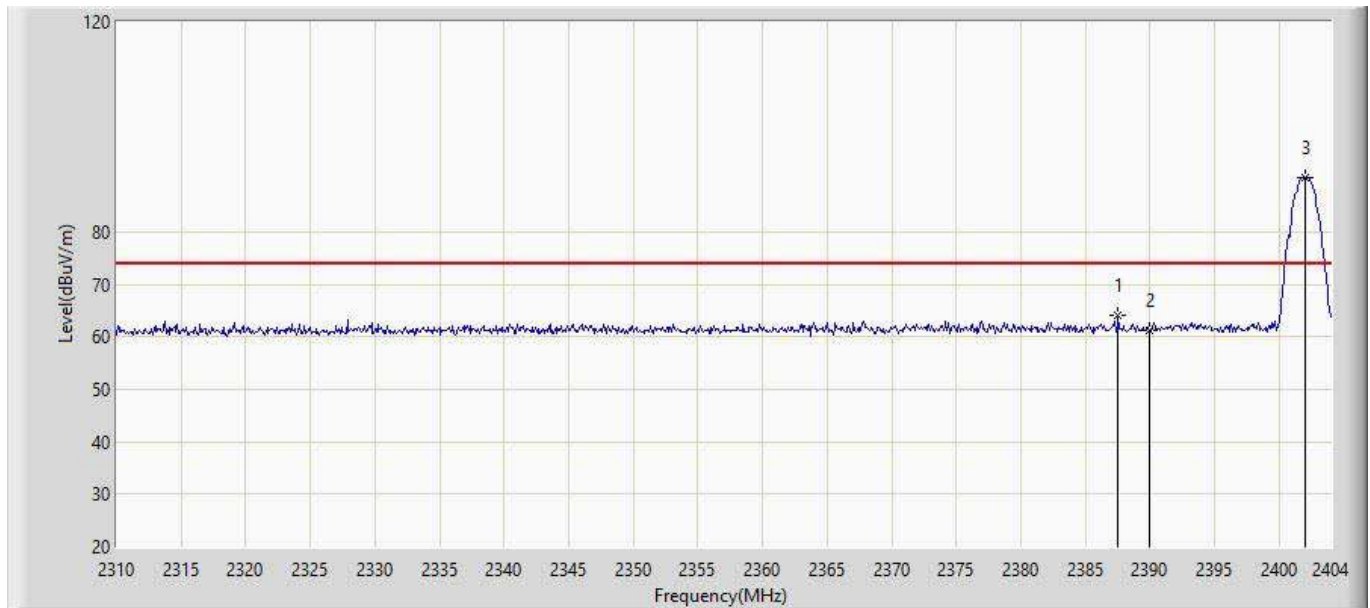
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.273	16.162	-4.727	54.000	33.111	AV
2	*	2401.838	95.345	62.185	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2402MHz	



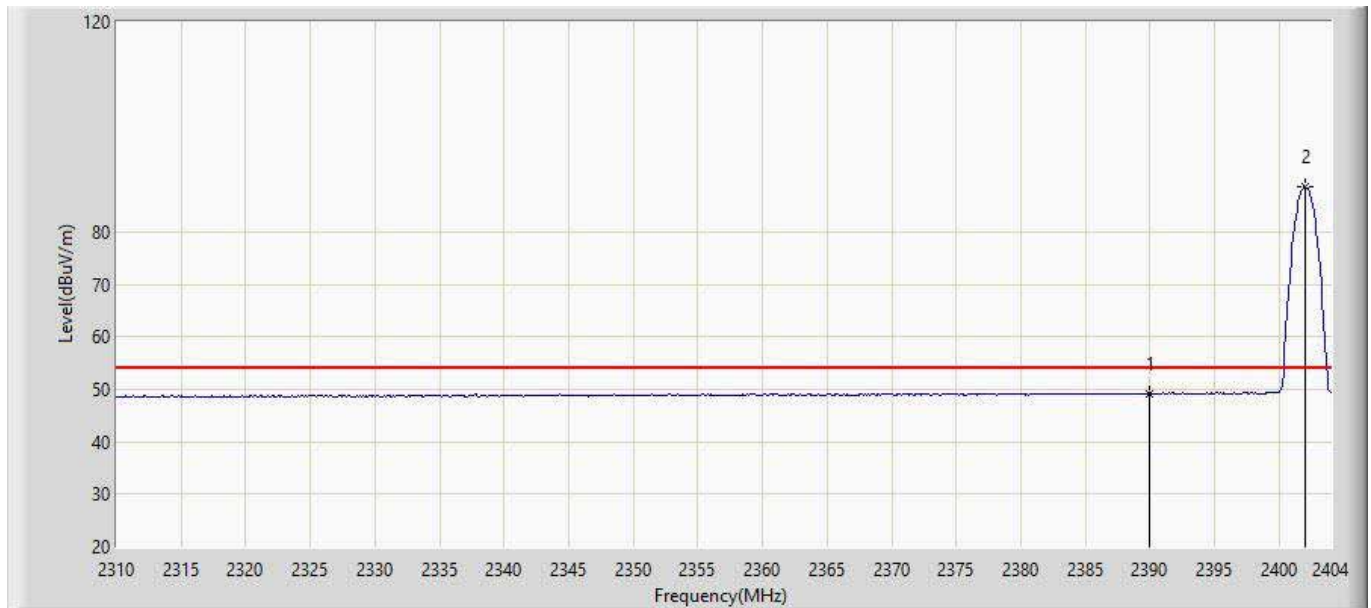
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2387.550	64.050	30.949	-9.950	74.000	33.101	PK
2		2390.000	61.303	28.192	-12.697	74.000	33.111	PK
3	*	2402.026	90.387	57.226	N/A	N/A	33.161	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2402MHz	



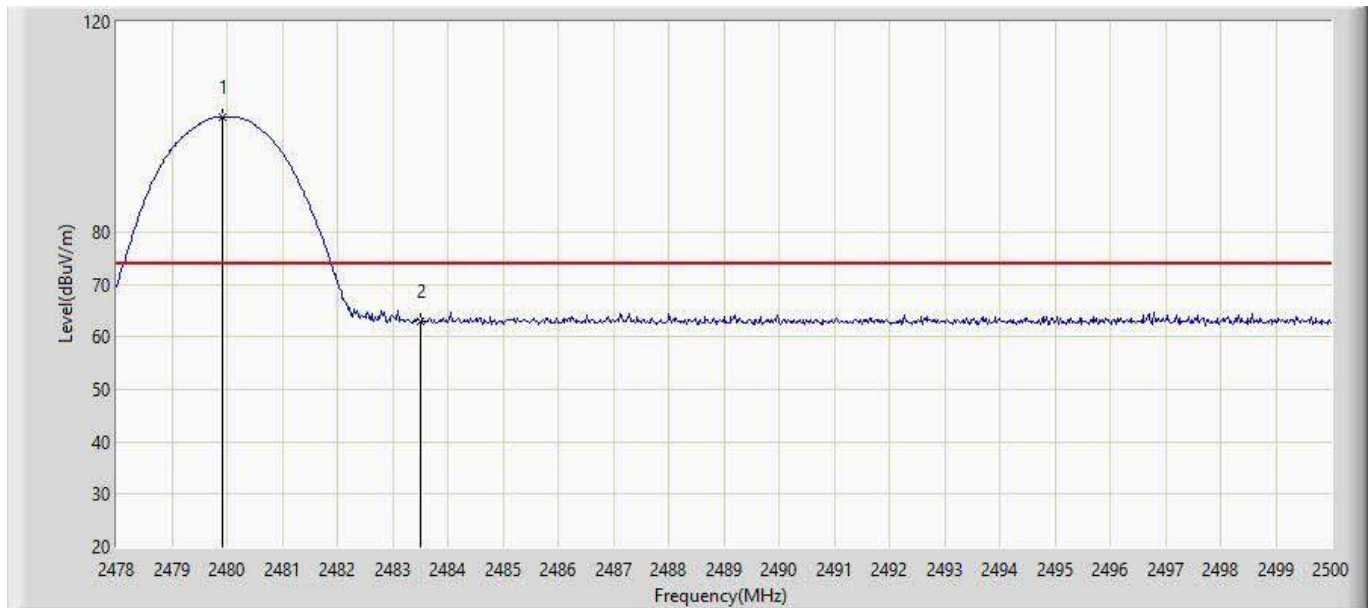
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.094	15.983	-4.906	54.000	33.111	AV
2	*	2402.026	88.563	55.402	N/A	N/A	33.161	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2480MHz	



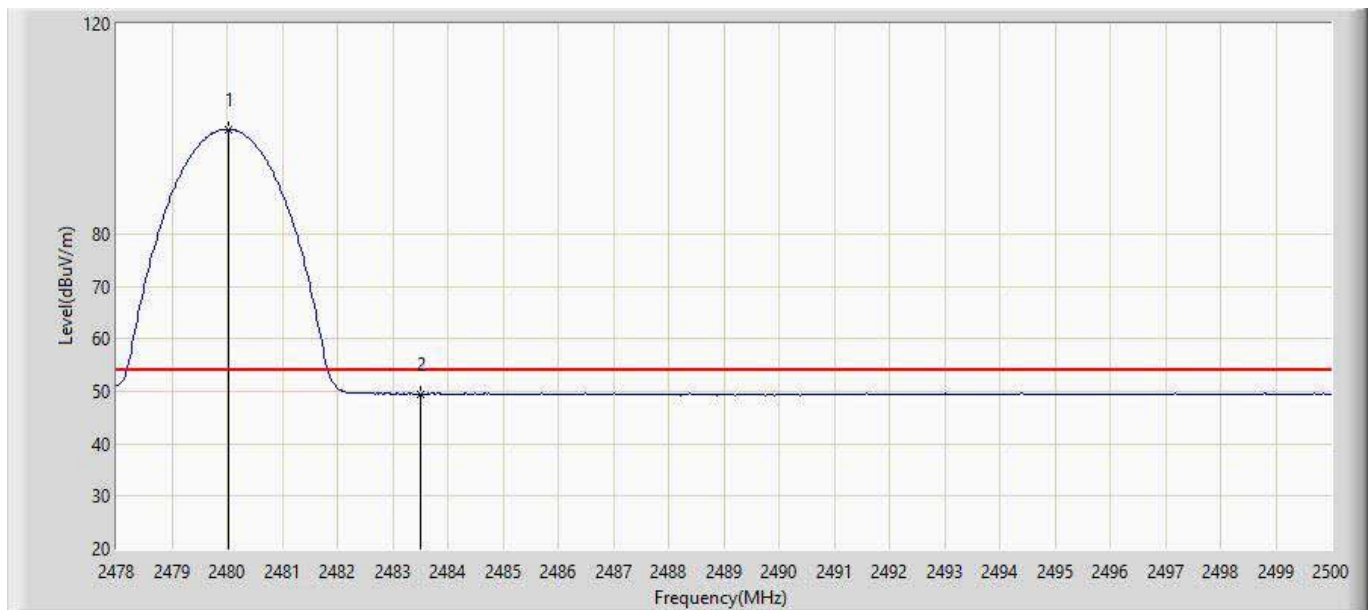
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.914	101.770	68.292	N/A	N/A	33.478	PK
2		2483.500	62.806	29.314	-11.194	74.000	33.493	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2480MHz	



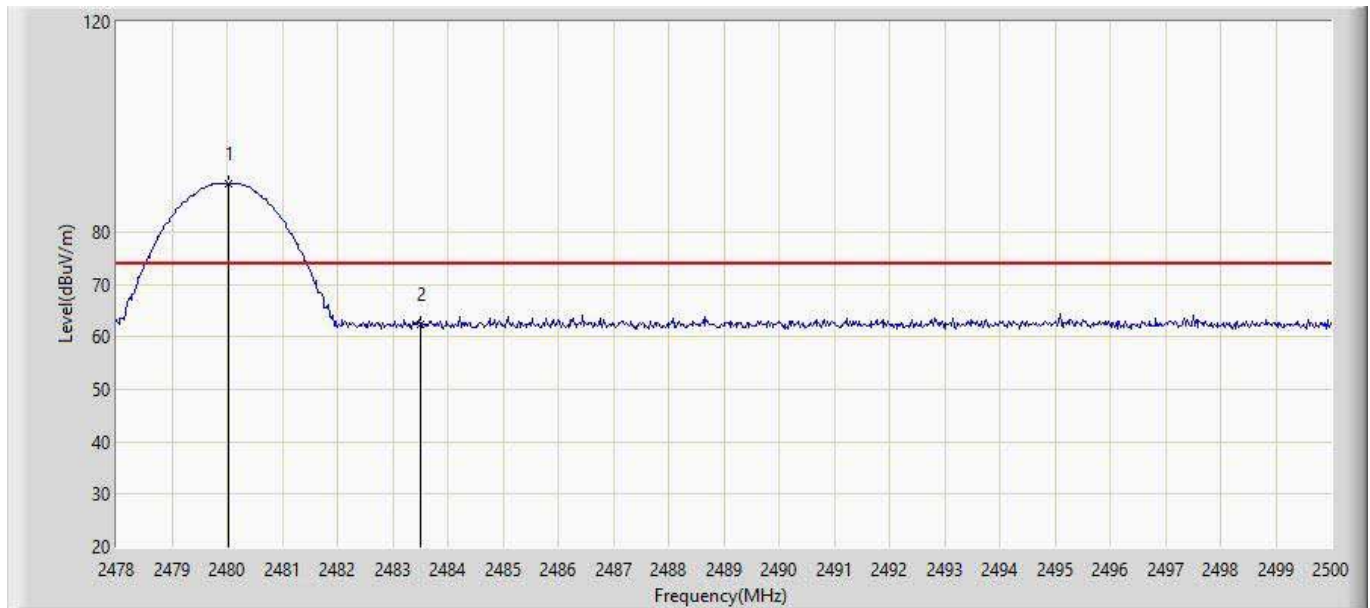
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	99.919	66.440	N/A	N/A	33.479	AV
2		2483.500	49.418	15.926	-4.582	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2480MHz	



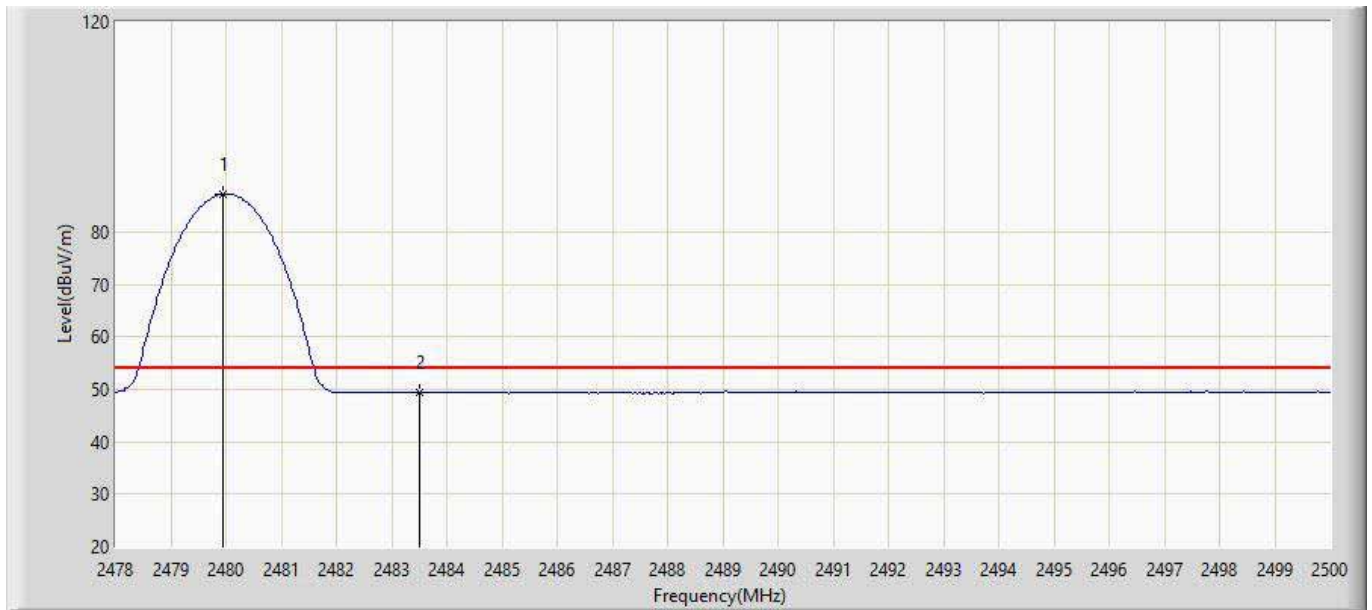
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	89.115	55.636	N/A	N/A	33.479	PK
2		2483.500	62.323	28.831	-11.677	74.000	33.493	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/14 - 17:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: N538-5000	Power: By Battery
Note: Mdoe:Transmit 3DH5 at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.958	87.172	53.694	N/A	N/A	33.478	AV
2		2483.500	49.441	15.949	-4.559	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

The End