RADIO TEST REPORT

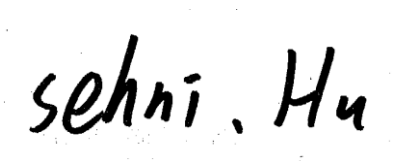
FCC 47 CFR PART 15 SUBPART C (CLASS II PERMISSIVE CHANGE) INDUSTRY CANADA RSS-247 (CLASS IV PERMISSIVE CHANGE)

Test Standard	**FCC Part 15.247 IC RSS-247 issue 3 and IC RSS-GEN issue 5**
Product name	**Smart Module**
Brand Name	**Mio / MAGELLAN / NAVMAN / MiTAC**
Model No.	**SC680A-NA**
Test Result	**Pass**
Statements of Conformity	**Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.**

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Sehni Hu
Supervisor

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 16, 2024	Initial Issue	ALL	Peggy Tsai
01	April 23, 2024	See the following Note Rev. (01)	P.5	Peggy Tsai

Rev. (01):
1. Modify FCC ID in section 1.1.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
Manufacturer	Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
Equipment	Smart Module
Brand Name	Mio / MAGELLAN / NAVMAN / MiTAC
Model Name	SC680A-NA
Model Discrepancy	Difference of the those brand names (list on this report) are just for marketing purpose only.
Host Equipment	Tablet
Host model / HMN	N722
Received Date	November 27, 2023
Date of Test	December 7, 2023 ~ April 10, 2024
Power Supply	1. Power from Cradle. MIO / N564 I/P (1): DC 12V, 1A or DC 24V, 0.5A (Fleet Port) I/P (2): DC 5V, 2A (Micro USB) 2. Power from Adapter. LUCENT TRANS / 1A52-PD2W I/P: 100-240Vac, 800mA, 50-60Hz O/P: 5Vdc, 3A or 9Vdc, 2.22A 3. Power from Adapter. TTT / MSS050200BI I/P: 100-240Vac,0.3A, 50-60Hz O/P: 5Vdc, 2A(10.0W) 4. Power from Battery. Apower Electronics Co., Ltd. / AEC565786B Rating: 3.8Vdc, 4000mAh, 15.2Wh 5. Power from Car Charger. TTT / TCV10100 I/P: DC 12-24V, 1.3A O/P: DC 5V, 2A

PMN	SC680A-NA
EUT Serial #	HKE3AM00013
Class II Permissive Change	The intention of this application is to enable the modular certified FCC ID: P4Q-SC680A to be integrated in MiTAC Tablet N722. The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. Software security remains unchanged from the original application.
Class IV Permissive Change	The intention of this application is to enable the modular certified IC: 2420C-SC680A to be integrated in MiTAC Tablet N722. The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. Software security remains unchanged from the original application.

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: Variant information between/among trademarks is provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.

1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT 20: 2412 MHz ~ 2462 MHz 802.11n HT40: 2422 MHz ~ 2452 MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 MHz mode : OFDM 4. IEEE 802.11n HT 40 MHz mode : OFDM
Number of channel	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode : 11 Channels 4. IEEE 802.11n HT 40 MHz mode : 7 Channels

Remark:
Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table 1 for test channels

Number of frequencies to be tested

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Specification	☒ PIFA ☐ PCB ☐ Dipole ☐ Coils
Antenna Gain	Gain: 0.44 dBi
Brand / Model	MIO / N722 8" PAD

Notes:
1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-GEN 6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.213 dB
RF output power (Power Meter + Power sensor)	± 0.243 dB
Radiated Emission_9kHz-30MHz	± 3.761 dB
Radiated Emission_30MHz-200MHz	± 3.473 dB
Radiated Emission_200MHz-1GHz	± 3.946 dB
Radiated Emission_1GHz-6GHz	± 4.797 dB
Radiated Emission_6GHz-18GHz	± 4.803 dB
Radiated Emission_18GHz-26GHz	± 3.459 dB
Radiated Emission_26GHz-40GHz	± 3.297 dB

Remark:
1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at
☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.
☐ No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan.
CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Czerny Lin	-
Radiation	Tony Chao、Ray Li	-
RF Conducted	Marco Chan	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

1.6 INSTRUMENT CALIBRATION

966A_Radiated Wi-Fi 2.4GHz					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Signal Analyzer	KEYSIGHT	N9010A	MY54200716	2023-10-13	2024-10-12
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-08	2024-12-07
Loop Antenna	COM-POWER	AL-130	121051	2023-05-23	2024-05-22
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07
Preamplifier	EMEC	EM330	060609	2024-02-21	2025-02-20
Cable	Huber+Suhner	104PEA	20995+21000+182330	2024-02-21	2025-02-20
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2023-12-28	2024-12-27
Preamplifier	HP	8449B	3008A00965	2023-12-22	2024-12-21
Cable	EMCI	EMC101G	221213+221011+221012	2023-10-17	2024-10-16
Attenuator	Mini-Circuits	BW-S9W5	BWS9W5-09-966A-01	2024-02-07	2025-02-06
High Pass Filters	Titan Microwave	T04H30001800070S01	22011402-4	2023-06-17	2024-06-16
Horn Antenna	SCHWARZBECK	BBHA9170	1047	2023-12-13	2024-12-12
Pre-Amplifier	EMCI	EMC184045SE	980860	2023-12-12	2024-12-11
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Site Validation	CCS	966A	N/A	2023-07-10	2024-07-09
Software	e3 V9-210616c				

Conducted_FCC_ALL					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EXA Signal Analyzer	Keysight	N9030B	MY62291089	2023-10-13	2024-10-12
Power Meter	Anritsu	ML2496A	2136002	2023-11-16	2024-11-15
Power Sensor	Anritsu	MA2411B	1911386	2023-07-25	2024-07-24
Power Sensor	Anritsu	MA2411B	1911387	2023-07-25	2024-07-24
Software	Radio Test Software Ver. 21				

Remark:
1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

AC Mains Conduction					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI Test Receiver	R&S	ESCI	100064	2023-06-07	2024-06-06
LISN	TESEQ	LN2-16N	22012	2023-03-08	2024-03-07
				2024-02-29	2025-02-27
Cable	EMCI	CFD300-NL	CERF	2023-06-27	2024-06-26
Software	e3 V6-110812				

Remark:
1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

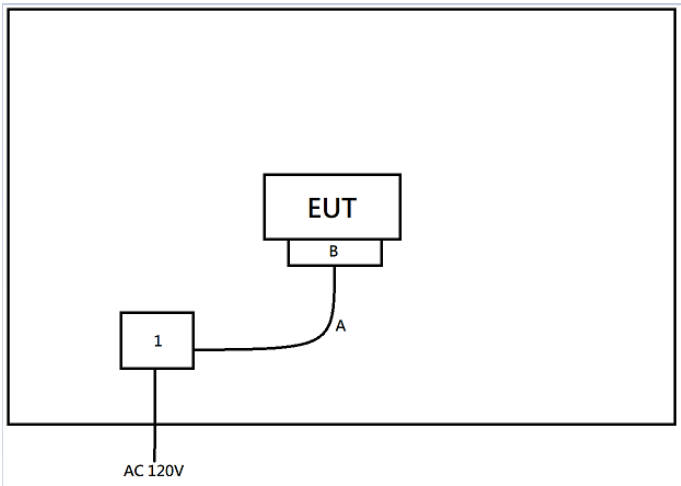
EUT Accessories Equipment						
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**	**IC**
	N/A					

Support Equipment (Conducted)						
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**	**IC**
1	NB(E)	Lenovo	T460	N/A	N/A	N/A

Support Equipment (Conduction)						
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**	**IC**
1	Type C Cable	JHEN VEI ELECTRONIC CO.,LTD	422N63500017	N/A	N/A	N/A
2	USB Cable	Kunshan Cablex [Copartner] MFG	422N46100001	N/A	N/A	N/A
3	Adapter	LUCENT TRANS	1A52-PD20W	N/A	N/A	N/A
4	Adapter	LUCENT TRANS	MSS050200BI	N/A	N/A	N/A

Support Equipment (RSE)						
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**	**IC**
1	DC Power Source	GWINSTEK	SPS-3610	GPE880163	N/A	N/A
A	Fleet Cable	Kunshan Cablex [Copartner] MFG	N/A	N/A	N/A	N/A
B	Cradle	MiTAC	N564	N/A	N/A	N/A

1.8 TEST SETUP DIAGRAM



1.9 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 662911, KDB 558074, RSS-247 Issue 3 and RSS-GEN Issue 5.

2. TEST SUMMARY

IC Standard Section	FCC Standard Section	Report Section	Test Item	Result
RSS-Gen 6.8	15.203	1.3	Antenna Requirement	Pass
RSS-GEN 8.8	15.207(a)	4.1	AC Conducted Emission	Pass
RSS-247(5.4)(d)	15.247(b)(3)	4.2	Output Power Measurement	Pass
RSS-GEN 8.9, 8.10	15.247(d) 15.209 15.205	4.3	Radiation Band Edge	Pass
RSS-GEN 8.9, 8.10	15.247(d) 15.209 15.205	4.3	Radiation Spurious Emission	Pass

Note:
The host antenna is of a different type than originally approved , RF output power was reduced compared to the original application, so conducted performance in the intended frequency bands is expected to be lower than measured in the original modular approval. However, radiation performance will be fully evaluated for product compliance.

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode:1Mbps IEEE 802.11g mode:6Mbps IEEE 802.11n HT20 mode: MCS0 IEEE 802.11n HT40 mode: MCS0
Test Channel Frequencies	**IEEE 802.11b mode :** Low CH: 2412 MHz Mid CH: 2437 MHz High CH: 2462 MHz **IEEE 802.11g mode :** Low CH: 2412 MHz Mid CH: 2437 MHz High CH: 2462 MHz **IEEE 802.11n HT20 mode :** Low CH: 2412 MHz Mid CH: 2437 MHz High CH: 2462 MHz **IEEE 802.11n HT40 mode :** 1. Lowest Channel: 2422 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2452 MHz
Operation Transmitter	IEEE 802.11b mode : 1T1R IEEE 802.11g mode : 1T1R IEEE 802.11n HT20 mode : 1T1R IEEE 802.11n HT40 mode : 1T1R

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all date rates, bandwidths, and modulations.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1:EUT power by Adapter (1A52-PD20W) Mode 2:EUT power by Adapter (MSS050200BI)
Worst Mode	☒ Mode 1 ☒ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by DC12V Fleet Cable withCradle
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by DC12V Fleet Cable with Cradle Mode 2: EUT power by DC24V Fleet Cable with Cradle Mode 3: EUT power by Type C With Adapter(1A52-PD20W) Mode 4: EUT power by Type C With Adapter(MSS050200BI) Mode 5: EUT power by Battery Mode 6: EUT power by DC12V With Car Charger Mode 7: EUT power by DC24V With Car Charger
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement [co-location]	
Test Condition	Radiated Emission [co-location]
Power supply Mode	Mode 1: Wi-Fi 2.4G+LTE B2+NFC Mode 2: Wi-Fi 2.4G+LTE B13+NFC
Worst Mode	☒ Mode 1 ☒ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.
3. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report
4. The platform device has an NFC transmitter and a WLAN&WWAN 's module, which evaluates Radiated Emission based on co-location.

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

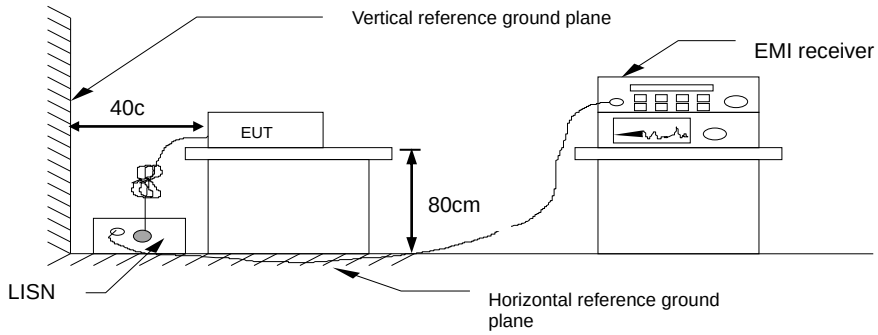
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup

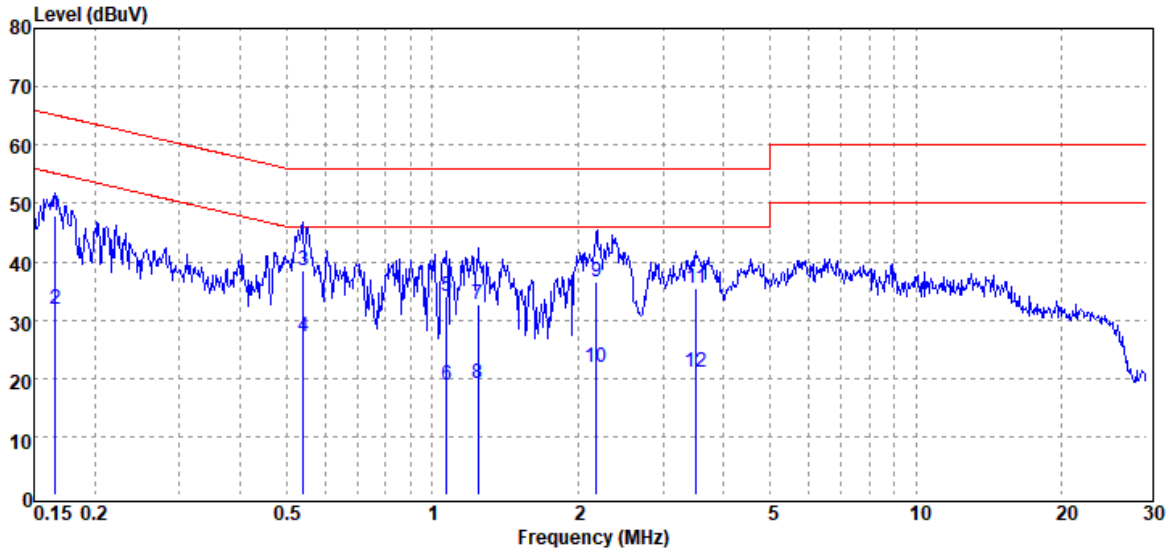


4.1.4 Test Result

PASS.

Test Data

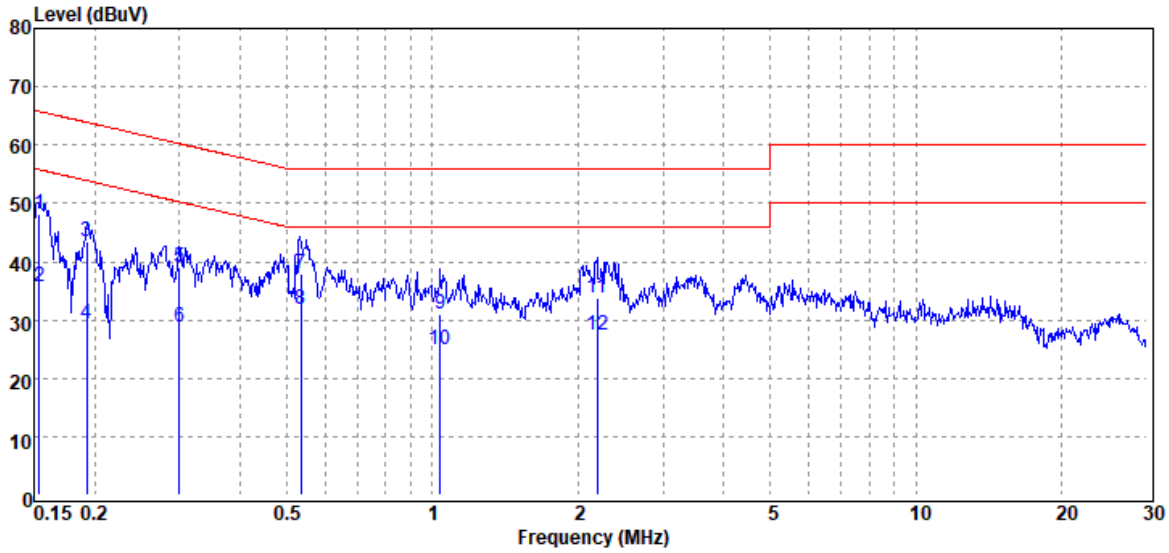
Project No	: TM-2311000354P	Test Date	: 2024-04-02
Operation Mode	: Wifi2.4G	Temp./Humi.	: 23.5°C / 52%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: LINE	Test Voltage	: AC 120V/60Hz
Note	: Mode 1		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.166	QP	47.85	0.15	48.00	65.15	-17.15
0.166	Average	31.78	0.15	31.93	55.15	-23.22
0.540	QP	38.32	0.15	38.47	56.00	-17.53
0.540	Average	26.84	0.15	26.99	46.00	-19.01
1.070	QP	33.77	0.16	33.93	56.00	-22.07
1.070	Average	18.63	0.16	18.79	46.00	-27.21
1.243	QP	32.42	0.18	32.60	56.00	-23.40
1.243	Average	19.03	0.18	19.21	46.00	-26.79
2.187	QP	36.35	0.22	36.57	56.00	-19.43
2.187	Average	21.78	0.22	22.00	46.00	-24.00
3.514	QP	35.31	0.26	35.57	56.00	-20.43
3.514	Average	20.86	0.26	21.12	46.00	-24.88

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

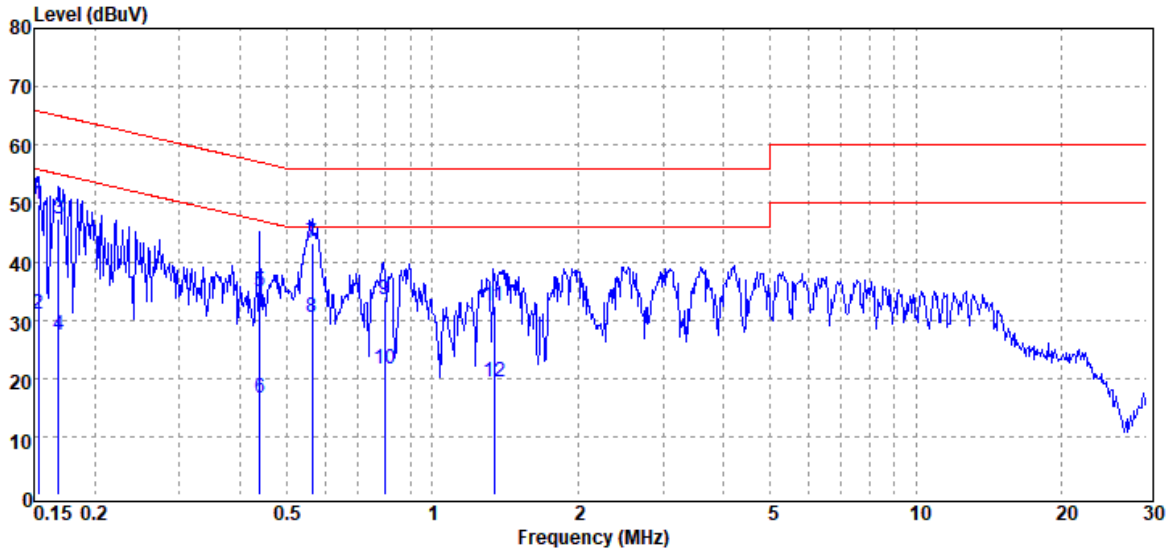
Project No	: TM-2311000354P	Test Date	: 2024-04-02
Operation Mode	: Wifi2.4G	Temp./Humi.	: 23.5°C / 52%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: NEUTRAL	Test Voltage	: AC 120V/60Hz
Note	: Mode 1		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.154	QP	48.10	0.20	48.30	65.80	-17.50
0.154	Average	35.44	0.20	35.64	55.80	-20.16
0.193	QP	43.39	0.19	43.58	63.93	-20.35
0.193	Average	29.25	0.19	29.44	53.93	-24.49
0.299	QP	38.84	0.19	39.03	60.27	-21.24
0.299	Average	28.65	0.19	28.84	50.27	-21.43
0.534	QP	37.72	0.19	37.91	56.00	-18.09
0.534	Average	31.74	0.19	31.93	46.00	-14.07
1.039	QP	30.69	0.21	30.90	56.00	-25.10
1.039	Average	24.68	0.21	24.89	46.00	-21.11
2.191	QP	33.65	0.26	33.91	56.00	-22.09
2.191	Average	27.19	0.26	27.45	46.00	-18.55

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

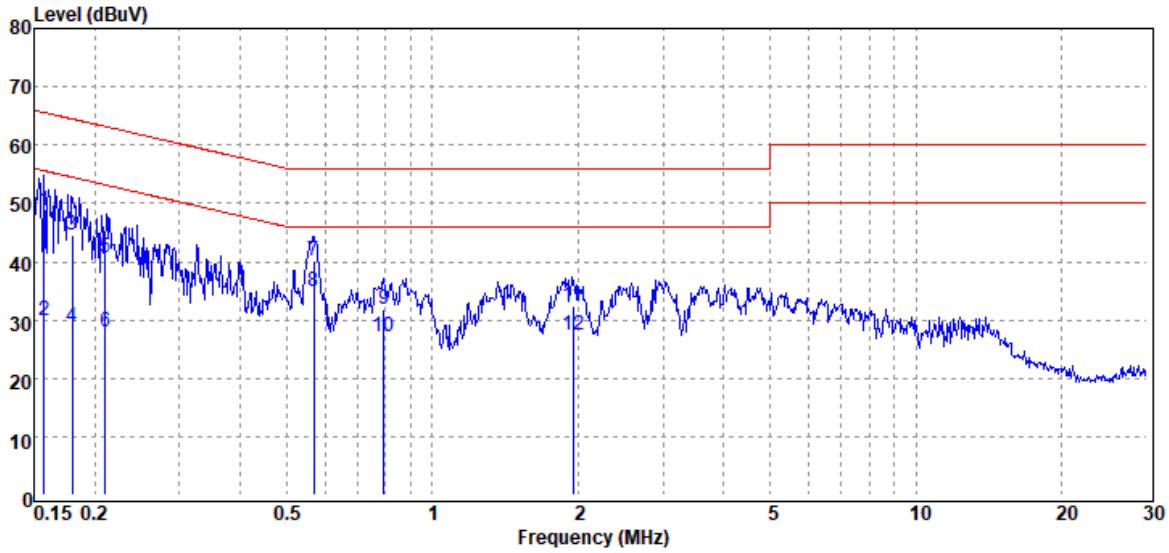
Project No	: TM-2311000354P	Test Date	: 2024-04-02
Operation Mode	: Wifi2.4G	Temp./Humi.	: 23.5°C / 52%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: LINE	Test Voltage	: AC 230V/50Hz
Note	: Mode 1		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.153	QP	49.58	0.15	49.73	65.84	-16.11
0.153	Average	30.91	0.15	31.06	55.84	-24.78
0.169	QP	47.21	0.15	47.36	65.02	-17.66
0.169	Average	27.38	0.15	27.53	55.02	-27.49
0.439	QP	34.82	0.15	34.97	57.08	-22.11
0.439	Average	16.37	0.15	16.52	47.08	-30.56
0.564	QP	42.98	0.15	43.13	56.00	-12.87
0.564	Average	30.21	0.15	30.36	46.00	-15.64
0.796	QP	33.45	0.16	33.61	56.00	-22.39
0.796	Average	21.32	0.16	21.48	46.00	-24.52
1.339	QP	32.22	0.19	32.41	56.00	-23.59
1.339	Average	19.32	0.19	19.51	46.00	-26.49

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

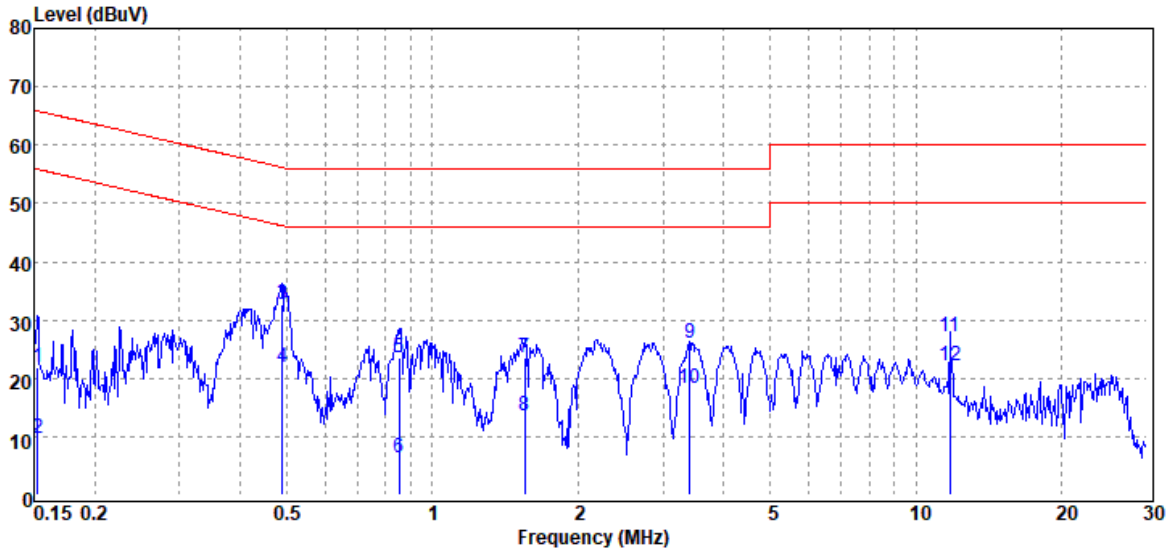
Project No	: TM-2311000354P	Test Date	: 2024-04-02
Operation Mode	: Wifi2.4G	Temp./Humi.	: 23.5°C / 52%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: NEUTRAL	Test Voltage	: AC 230V/50Hz
Note	: Mode 1		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.157	QP	48.46	0.20	48.66	65.61	-16.95
0.157	Average	29.60	0.20	29.80	55.61	-25.81
0.180	QP	44.39	0.20	44.59	64.50	-19.91
0.180	Average	28.50	0.20	28.70	54.50	-25.80
0.211	QP	40.51	0.19	40.70	63.18	-22.48
0.211	Average	27.71	0.19	27.90	53.18	-25.28
0.568	QP	40.04	0.19	40.23	56.00	-15.77
0.568	Average	34.57	0.19	34.76	46.00	-11.24
0.794	QP	31.59	0.21	31.80	56.00	-24.20
0.794	Average	26.82	0.21	27.03	46.00	-18.97
1.953	QP	32.13	0.26	32.39	56.00	-23.61
1.953	Average	27.26	0.26	27.52	46.00	-18.48

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

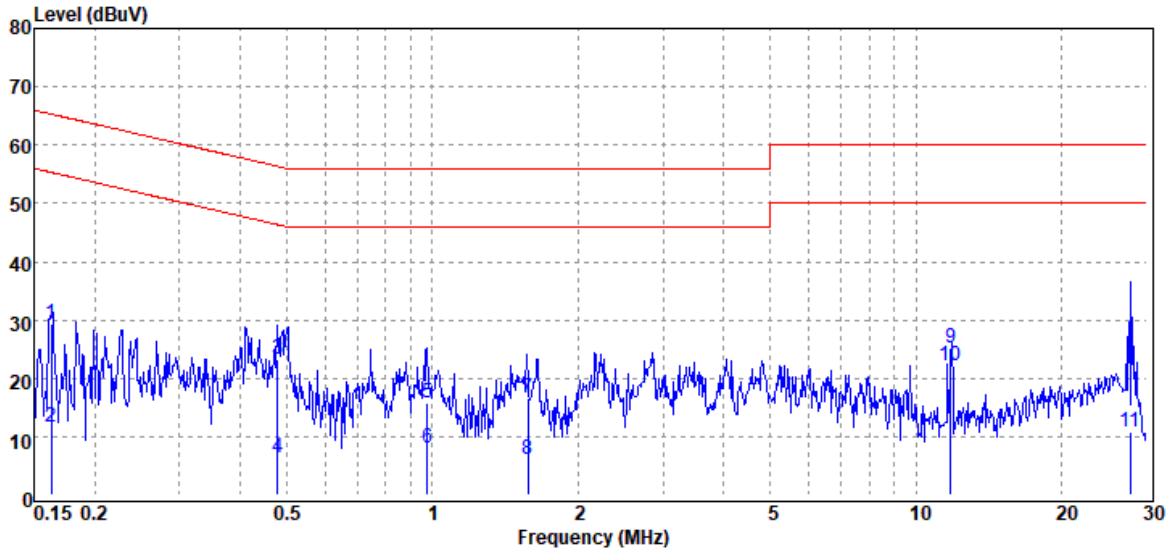
Project No	: TM-2311000354P	Test Date	: 2024-04-08
Operation Mode	: Wifi2.4G	Temp./Humi.	: 21.5°C / 50%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: LINE	Test Voltage	: AC 120V/60Hz
Note	: Mode 2		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.153	QP	21.74	0.15	21.89	65.86	-43.97
0.153	Average	9.54	0.15	9.69	55.86	-46.17
0.490	QP	32.42	0.15	32.57	56.17	-23.60
0.490	Average	21.79	0.15	21.94	46.17	-24.23
0.853	QP	23.25	0.16	23.41	56.00	-32.59
0.853	Average	6.13	0.16	6.29	46.00	-39.71
1.550	QP	23.34	0.20	23.54	56.00	-32.46
1.550	Average	13.37	0.20	13.57	46.00	-32.43
3.410	QP	25.86	0.26	26.12	56.00	-29.88
3.410	Average	18.10	0.26	18.36	46.00	-27.64
11.750	QP	26.61	0.40	27.01	60.00	-32.99
11.750	Average	21.86	0.40	22.26	50.00	-27.74

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

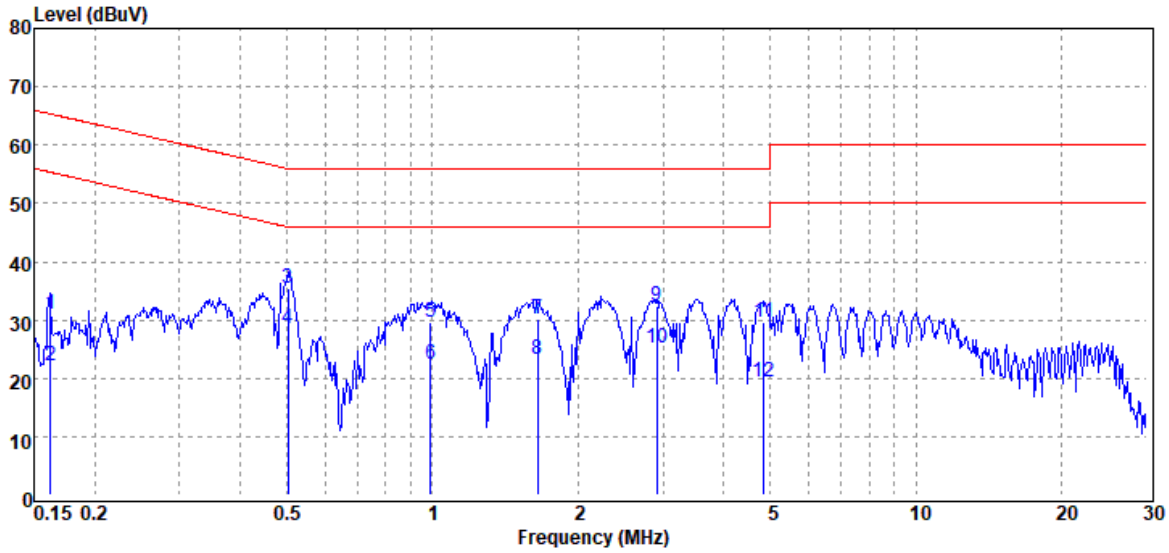
Project No	: TM-2311000354P	Test Date	: 2024-04-08
Operation Mode	: Wifi2.4G	Temp./Humi.	: 21.5°C / 50%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: NEUTRAL	Test Voltage	: AC 120V/60Hz
Note	: Mode 2		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.163	QP	29.17	0.19	29.36	65.32	-35.96
0.163	Average	11.30	0.19	11.49	55.32	-43.83
0.478	QP	23.18	0.19	23.37	56.38	-33.01
0.478	Average	6.04	0.19	6.23	46.38	-40.15
0.974	QP	15.67	0.21	15.88	56.00	-40.12
0.974	Average	7.77	0.21	7.98	46.00	-38.02
1.573	QP	16.28	0.25	16.53	56.00	-39.47
1.573	Average	5.92	0.25	6.17	46.00	-39.83
11.817	QP	24.78	0.42	25.20	60.00	-34.80
11.817	Average	21.84	0.42	22.26	50.00	-27.74
27.767	QP	10.11	0.59	10.70	60.00	-49.30
27.767	Average	-5.92	0.59	-5.33	50.00	-55.33

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

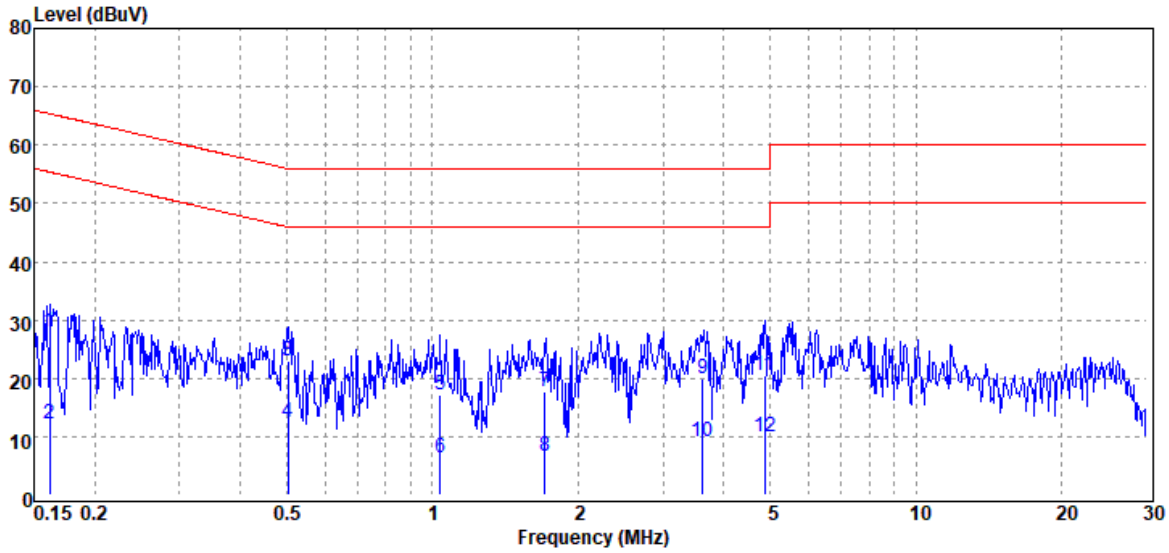
Project No	: TM-2311000354P	Test Date	: 2024-04-08
Operation Mode	: Wifi2.4G	Temp./Humi.	: 21.5°C / 50%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: LINE	Test Voltage	: AC 230V/50Hz
Note	: Mode 2		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.162	QP	30.79	0.15	30.94	65.35	-34.41
0.162	Average	22.05	0.15	22.20	55.35	-33.15
0.503	QP	35.32	0.15	35.47	56.00	-20.53
0.503	Average	28.37	0.15	28.52	46.00	-17.48
0.990	QP	29.54	0.16	29.70	56.00	-26.30
0.990	Average	22.37	0.16	22.53	46.00	-23.47
1.651	QP	29.92	0.20	30.12	56.00	-25.88
1.651	Average	22.96	0.20	23.16	46.00	-22.84
2.915	QP	32.04	0.24	32.28	56.00	-23.72
2.915	Average	24.99	0.24	25.23	46.00	-20.77
4.843	QP	29.35	0.28	29.63	56.00	-26.37
4.843	Average	19.06	0.28	19.34	46.00	-26.66

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

Project No	: TM-2311000354P	Test Date	: 2024-04-08
Operation Mode	: Wifi2.4G	Temp./Humi.	: 21.5°C / 50%
Test Chamber	: Conduction	Engineer	: Czerny Lin
Probe	: NEUTRAL	Test Voltage	: AC 230V/50Hz
Note	: Mode 2		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.162	QP	27.84	0.19	28.03	65.38	-37.35
0.162	Average	11.95	0.19	12.14	55.38	-43.24
0.502	QP	22.66	0.19	22.85	56.00	-33.15
0.502	Average	12.16	0.19	12.35	46.00	-33.65
1.037	QP	16.98	0.21	17.19	56.00	-38.81
1.037	Average	6.18	0.21	6.39	46.00	-39.61
1.708	QP	17.33	0.25	17.58	56.00	-38.42
1.708	Average	6.47	0.25	6.72	46.00	-39.28
3.627	QP	19.70	0.31	20.01	56.00	-35.99
3.627	Average	8.91	0.31	9.22	46.00	-36.78
4.868	QP	20.07	0.33	20.40	56.00	-35.60
4.868	Average	9.56	0.33	9.89	46.00	-36.11

Note: 1. Actual FS= Spectrum Read Level + Factor
Note: 2. Margin= Actual FS - Limit

4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.247(b) and RSS-247 section 5.4(d)

Peak output power：

For FCC:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

For IC:

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

Limit	☒ Antenna not exceed 6 dBi：30dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)] ☐ Point-to-point operation：

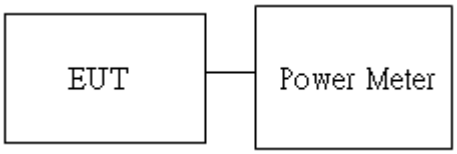
Average output power：For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.2.3 Test Setup



4.2.4 Test Result

Temperature:	16.6 ~ 23.8℃	**Test date:**	December 7, 2023 ~ March 22, 2024
Humidity:	46 ~ 66% RH	**Tested by:**	Marco Chan

Peak & Average output power：

802.11b Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Peak Output Power (dBm)**	**Limit (dBm)**	**RESULT**
1	2412	1	17	18.04	30.00	PASS
6	2437	1	17.5	18.10	30.00	PASS
11	2462	1	17.5	**18.22**	30.00	PASS
802.11b Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Avg. Output Power (dBm)**	**Limit (dBm)**	**RESULT**
1	2412	1	17	15.79	30.00	PASS
6	2437	1	17.5	**15.93**	30.00	PASS
11	2462	1	17.5	15.88	30.00	PASS

802.11g Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Peak Output Power (dBm)**	**Limit (dBm)**	**RESULT**
1	2412	6	16.5	19.57	30.00	PASS
6	2437	6	17	19.46	30.00	PASS
11	2462	6	17	**19.82**	30.00	PASS
802.11g Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Avg. Output Power (dBm)**	**Limit (dBm)**	**RESULT**
1	2412	6	16.5	14.76	30.00	PASS
6	2437	6	17	**14.96**	30.00	PASS
11	2462	6	17	14.70	30.00	PASS

802.11n_HT_20M Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Peak Output Power (dBm)**	**Limit (dBm)**	**RESULT**
1	2412	MCS0	16.5	**19.56**	30.00	PASS
6	2437	MCS0	17	19.44	30.00	PASS
11	2462	MCS0	16.5	19.41	30.00	PASS
802.11n_HT_20M Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Avg. Output Power (dBm)**	**Limit (dBm)**	**RESULT**
1	2412	MCS0	16.5	14.62	30.00	PASS
6	2437	MCS0	17	**14.82**	30.00	PASS
11	2462	MCS0	16.5	14.32	30.00	PASS

802.11n_HT_40M Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Peak Output Power (dBm)**	**Limit (dBm)**	**RESULT**
3	2422	MCS0	16	**20.47**	30.00	PASS
6	2437	MCS0	15.5	20.32	30.00	PASS
9	2452	MCS0	13.5	18.57	30.00	PASS
802.11n_HT_40M Ch0						
CH	**Freq. (MHz)**	**Data Rate**	**Power set**	**Avg. Output Power (dBm)**	**Limit (dBm)**	**RESULT**
3	2422	MCS0	16	**14.79**	30.00	PASS
6	2437	MCS0	15.5	14.03	30.00	PASS
9	2452	MCS0	13.5	11.58	30.00	PASS

EIRP Power

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	15.79	0.44	16.23	36	PASS
6	2437	1	15.93	0.44	**16.37**	36	PASS
11	2462	1	15.88	0.44	16.32	36	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	14.76	0.44	15.20	36	PASS
6	2437	6	14.96	0.44	**15.40**	36	PASS
11	2462	6	14.70	0.44	15.14	36	PASS

802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14.62	0.44	15.06	36	PASS
6	2437	MCS0	14.82	0.44	**15.26**	36	PASS
11	2462	MCS0	14.32	0.44	14.76	36	PASS

802.11n_HT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14.79	0.44	**15.23**	36	PASS
6	2437	MCS0	14.03	0.44	14.47	36	PASS
9	2452	MCS0	11.58	0.44	12.02	36	PASS

4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz (Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz Note	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

4.3.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 1GHz set to high power channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4. The SA setting following：

Below 1G：RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

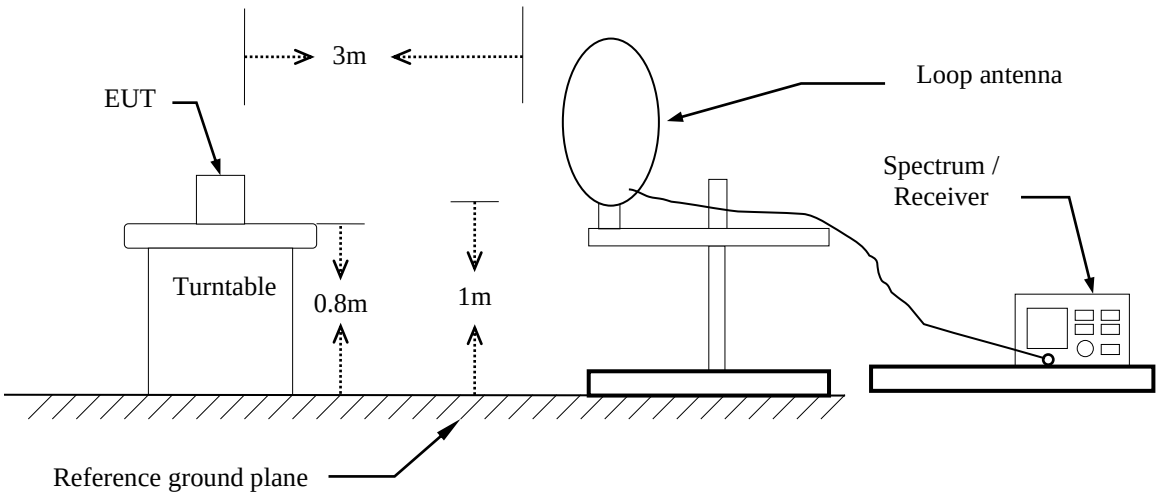
5. Data result：

Actual FS=Spectrum Reading Level + Factor

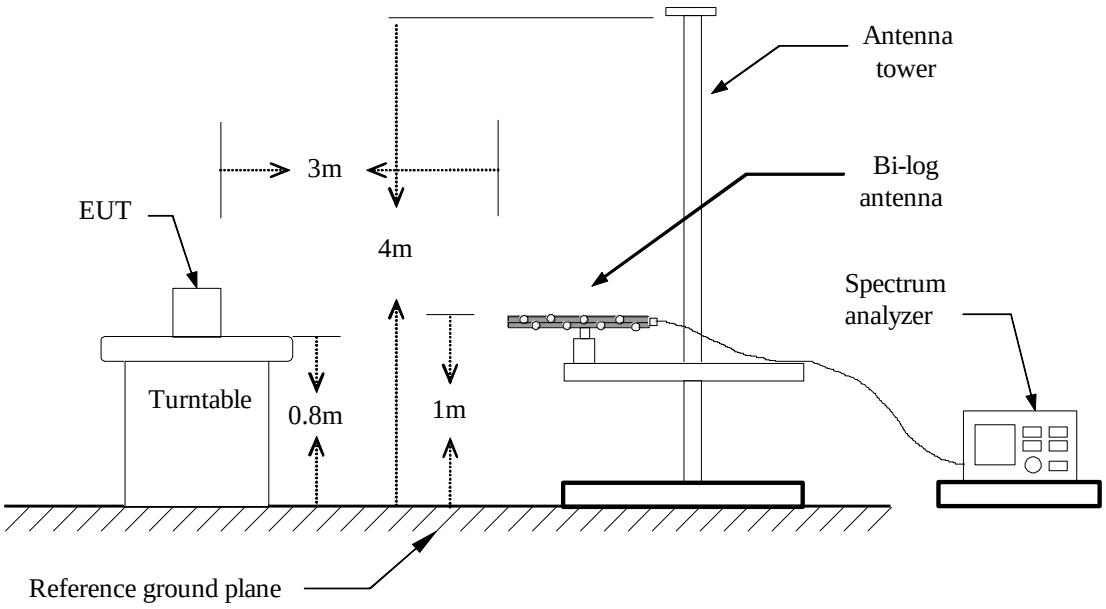
Margin=Actual FS- Limit

4.3.3 Test Setup

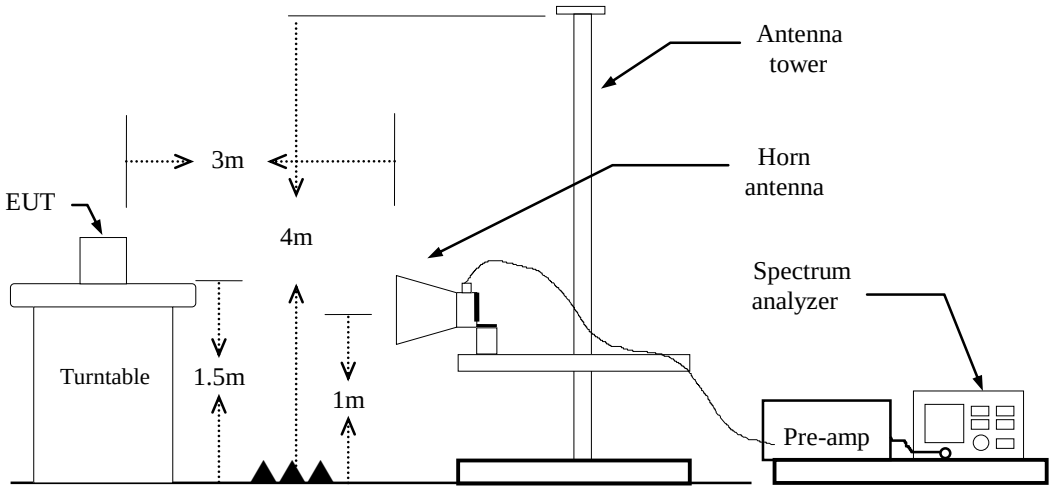
9kHz ~ 30MHz



30MHz ~ 1GHz



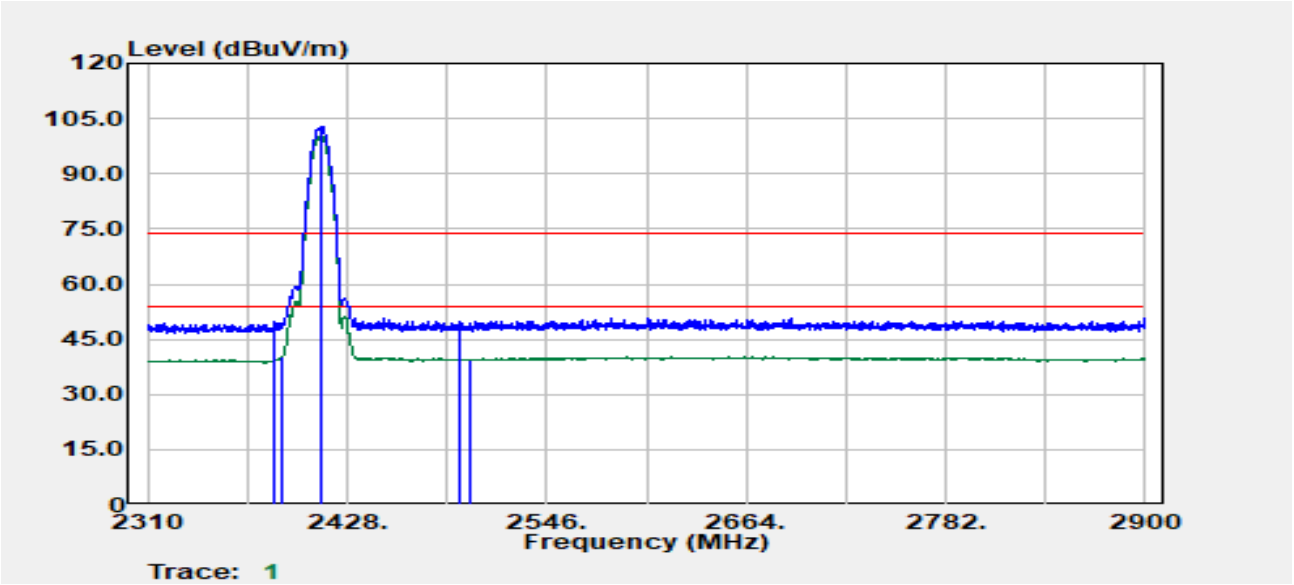
Above 1 GHz



4.3.4 Test Result

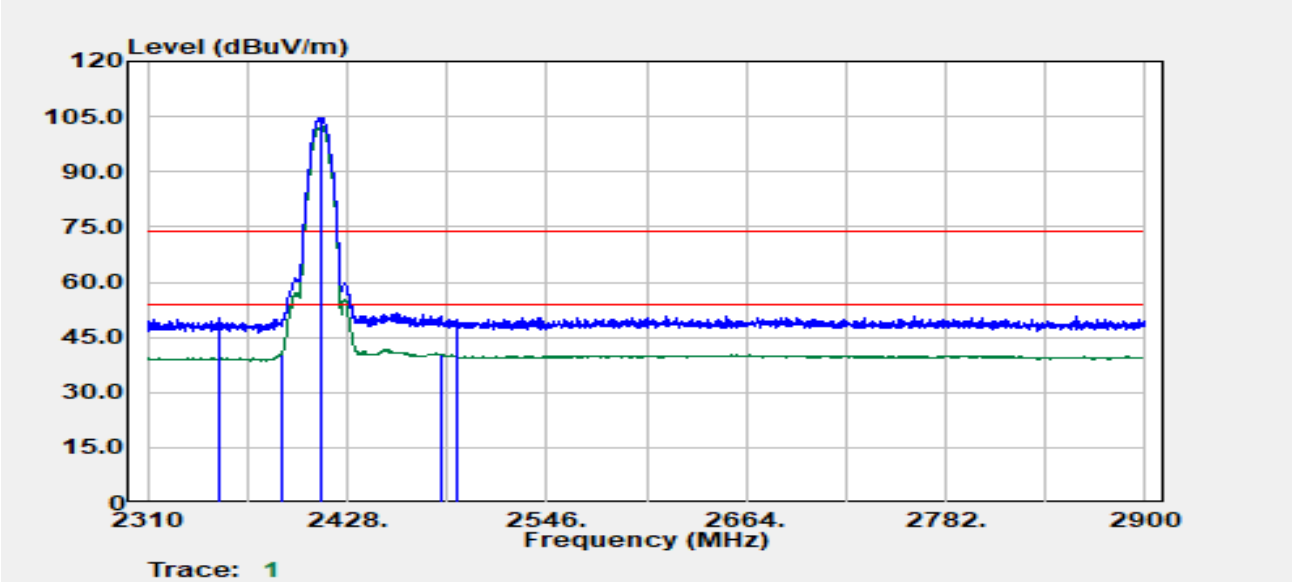
Band Edge Test Data

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



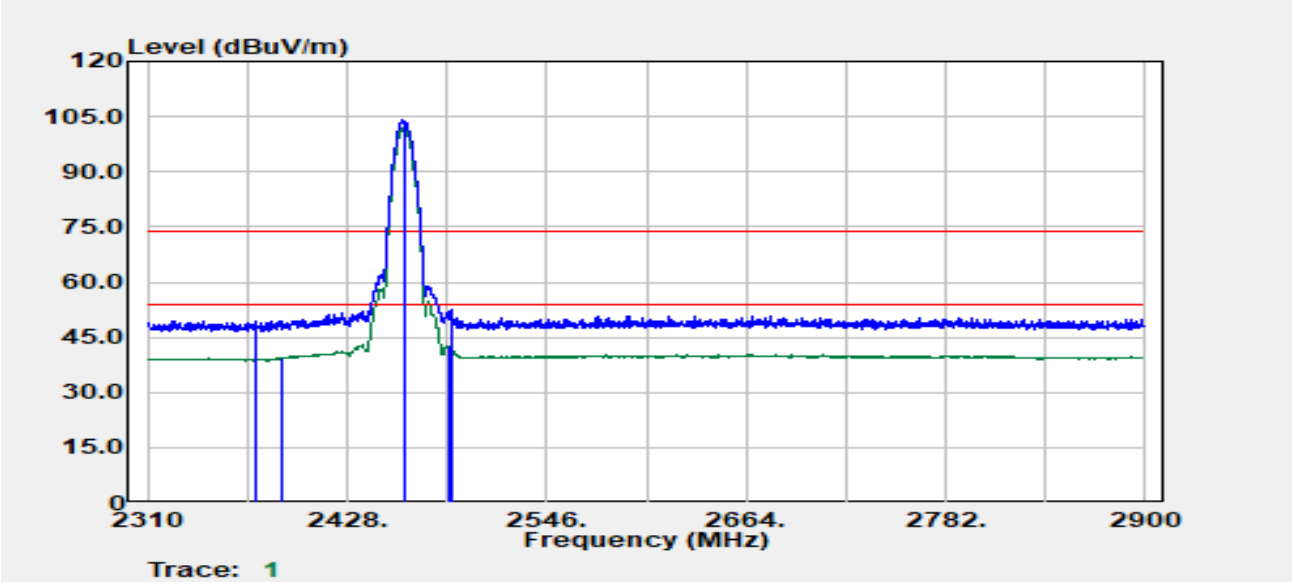
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2385.16	Peak	43.47	6.18	49.65	74.00	-24.35
2389.90	Average	33.96	6.28	40.24	54.00	-13.76
2412.00	Peak	96.41	6.31	102.71	--	--
2412.00	Average	93.97	6.31	100.28	--	--
2494.77	Peak	42.92	6.82	49.74	74.00	-24.26
2500.01	Average	32.78	6.84	39.62	54.00	-14.38

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



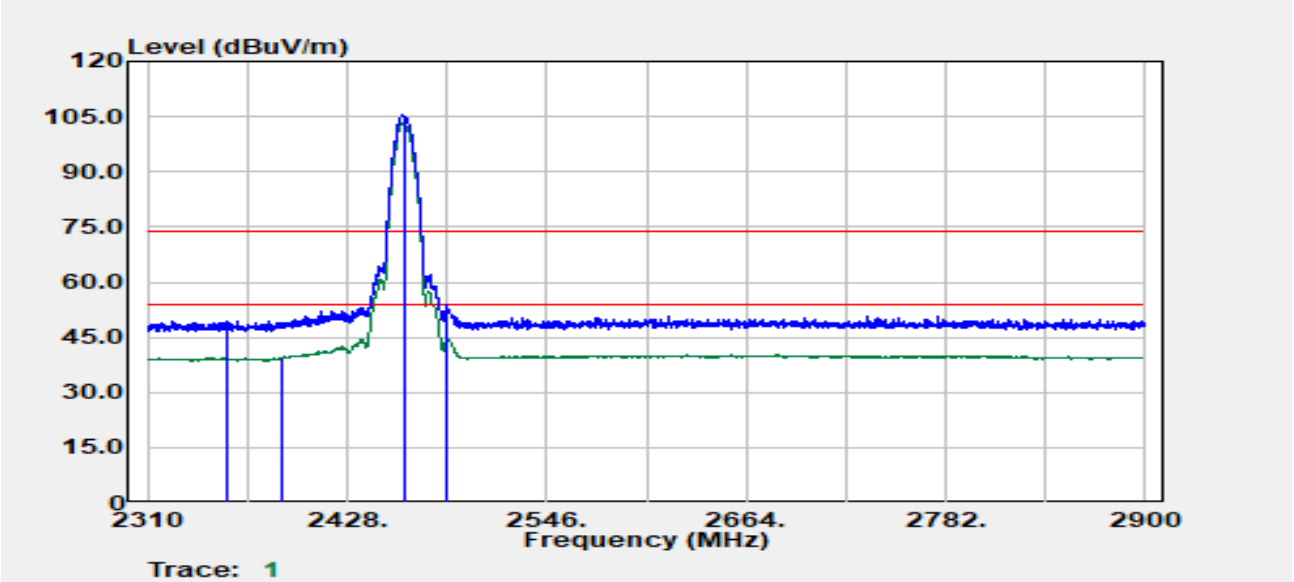
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2352.45	Peak	44.24	6.24	50.48	74.00	-23.52
2389.40	Average	34.22	6.27	40.48	54.00	-13.52
2412.00	Peak	98.52	6.31	104.83	--	--
2412.00	Average	96.12	6.31	102.42	--	--
2483.53	Average	33.53	6.71	40.25	54.00	-13.75
2492.52	Peak	42.90	6.81	49.72	74.00	-24.28

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



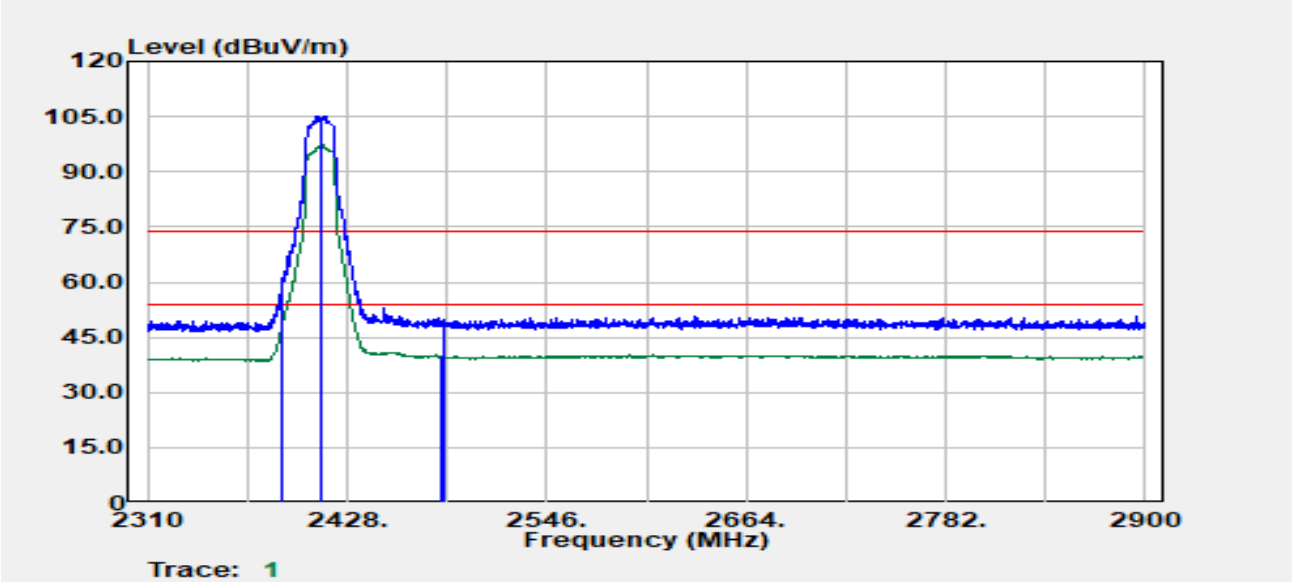
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2373.92	Peak	43.35	6.12	49.47	74.00	-24.53
2389.40	Average	33.18	6.27	39.45	54.00	-14.55
2462.00	Peak	97.72	6.32	104.04	--	--
2462.00	Average	95.34	6.32	101.66	--	--
2488.02	Average	36.01	6.78	42.78	54.00	-11.22
2489.52	Peak	45.57	6.80	52.37	74.00	-21.63

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



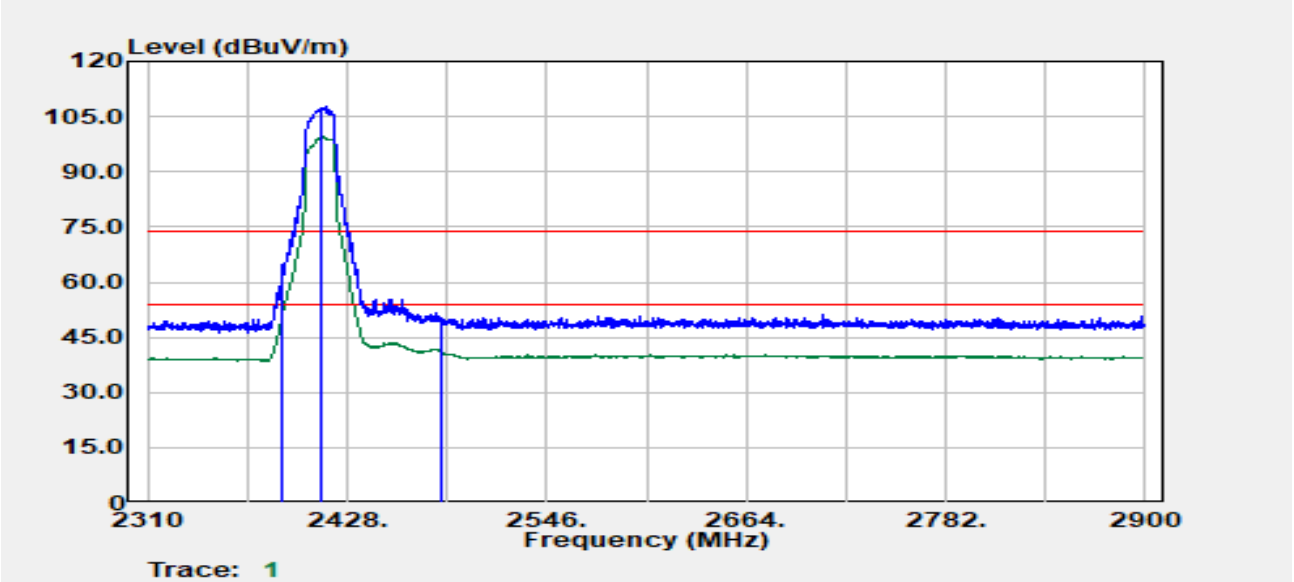
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2356.94	Peak	43.17	6.25	49.42	74.00	-24.58
2389.90	Average	33.28	6.28	39.55	54.00	-14.45
2462.00	Peak	99.26	6.32	105.58	--	--
2462.00	Average	96.84	6.32	103.16	--	--
2487.52	Peak	47.16	6.77	53.93	74.00	-20.07
2487.52	Average	37.69	6.77	44.46	54.00	-9.54

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



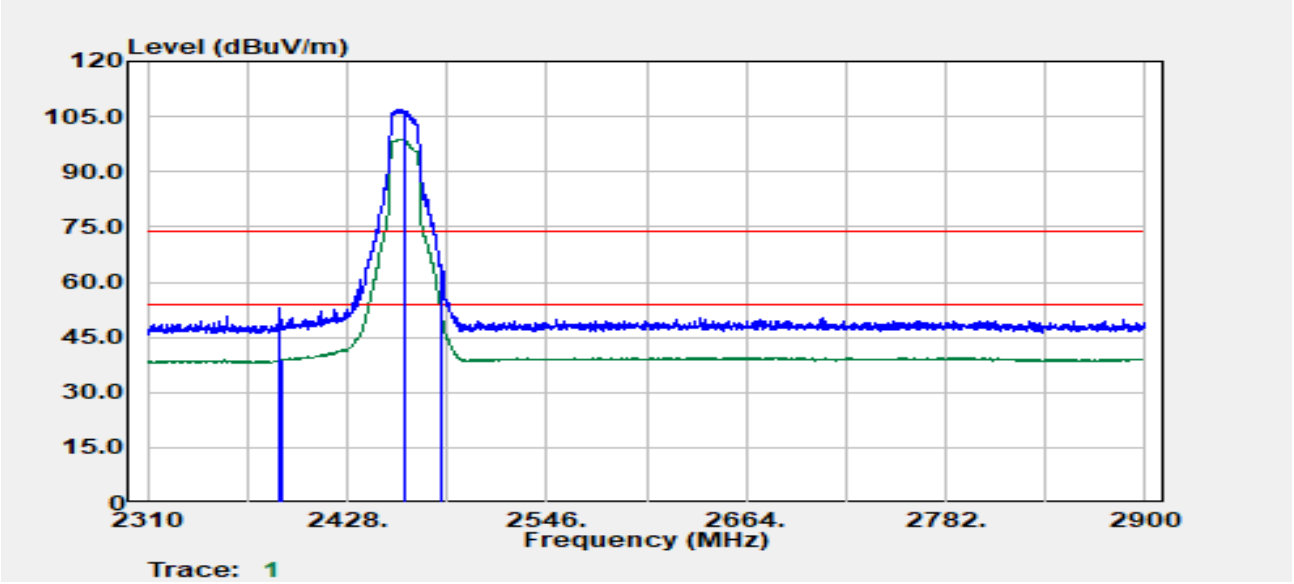
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.90	Peak	54.68	6.28	60.96	74.00	-13.04
2389.90	Average	42.59	6.28	48.87	54.00	-5.13
2412.00	Peak	98.97	6.31	105.28	--	--
2412.00	Average	90.88	6.31	97.18	--	--
2484.28	Average	33.13	6.72	39.86	54.00	-14.14
2485.28	Peak	43.28	6.74	50.02	74.00	-23.98

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



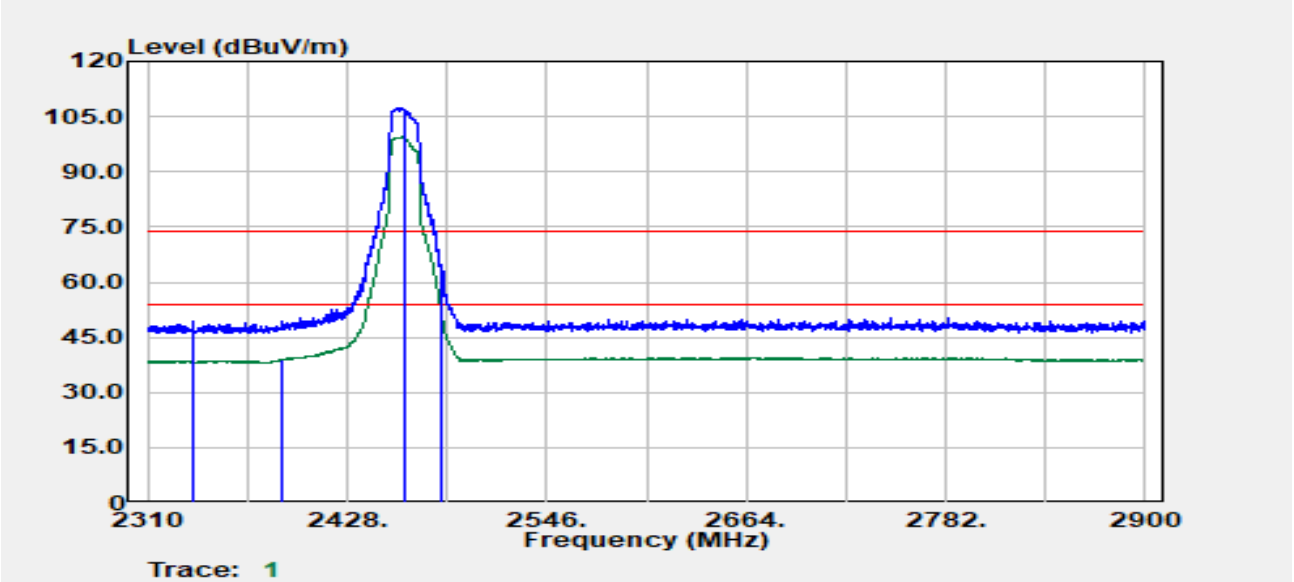
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.15	Peak	58.63	6.26	64.89	74.00	-9.11
2389.90	Average	45.40	6.28	51.68	54.00	-2.32
2412.00	Peak	101.45	6.31	107.76	--	--
2412.00	Average	93.16	6.31	99.46	--	--
2483.53	Peak	43.70	6.71	50.41	74.00	-23.59
2483.78	Average	34.23	6.72	40.95	54.00	-13.05

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



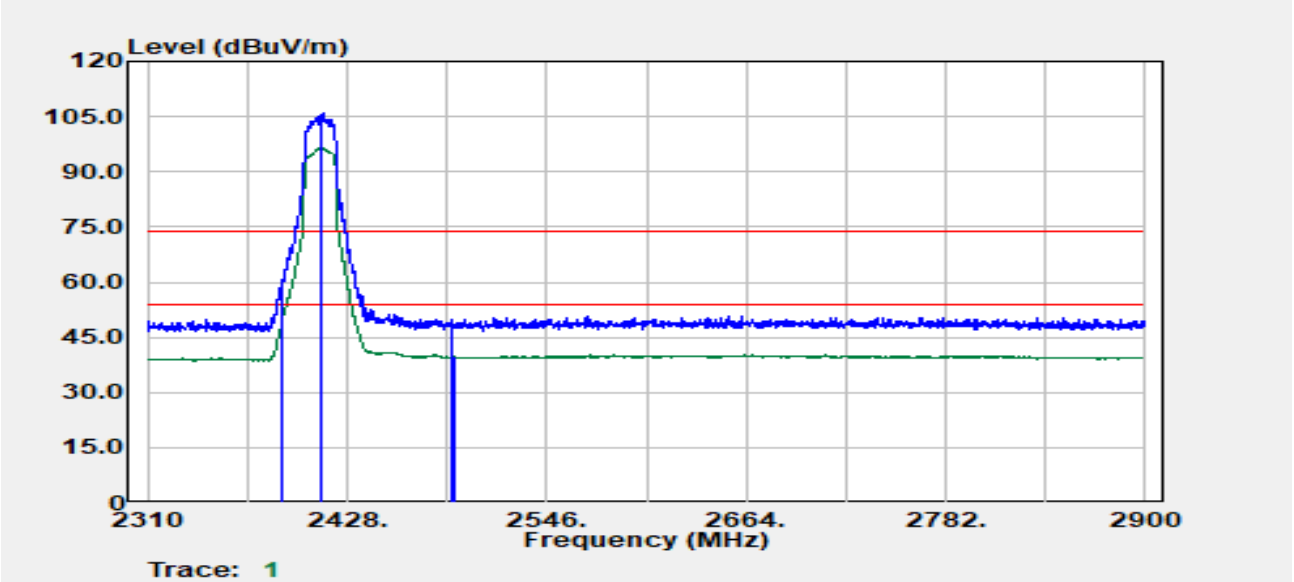
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2333.47	Peak	43.81	6.16	49.97	74.00	-24.03
2389.90	Average	33.36	6.28	39.64	54.00	-14.36
2462.00	Peak	100.37	6.32	106.69	--	--
2462.00	Average	91.97	6.32	98.29	--	--
2483.53	Average	44.41	6.71	51.12	54.00	-2.88
2484.03	Peak	55.68	6.72	62.40	74.00	-11.60

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



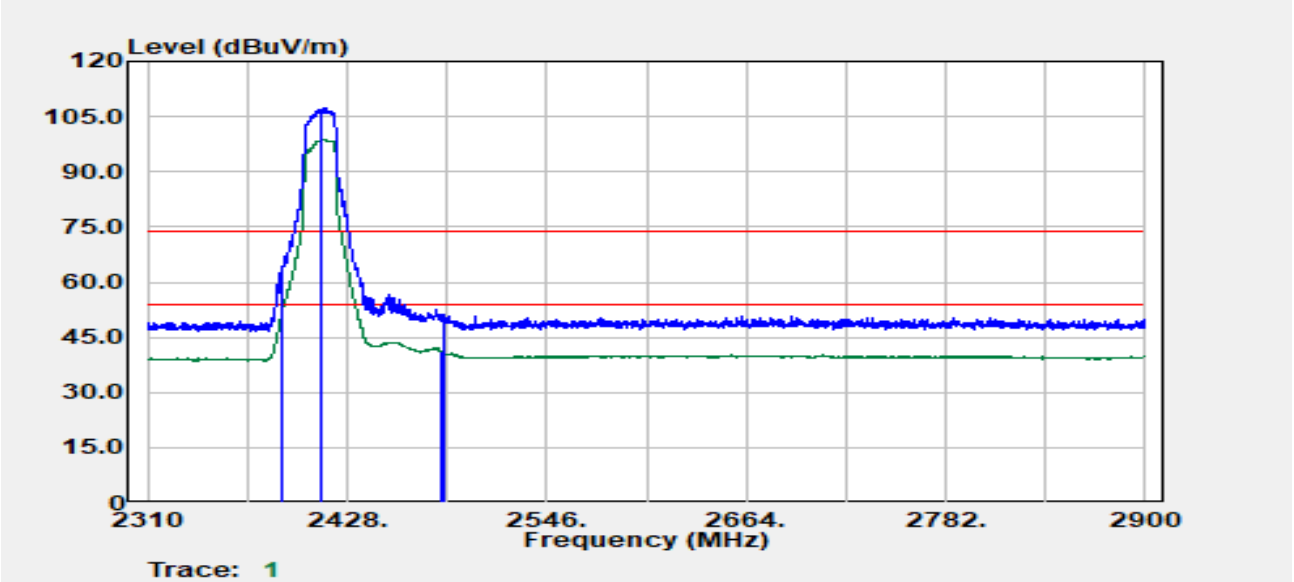
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2336.97	Peak	44.06	5.36	49.43	74.00	-24.57
2389.40	Average	33.52	5.50	39.01	54.00	-14.99
2462.00	Peak	101.94	5.54	107.48	- -	- -
2462.00	Average	93.94	5.54	99.48	- -	- -
2483.53	Average	46.36	5.94	52.30	54.00	-1.70
2484.03	Peak	58.59	5.95	64.54	74.00	-9.46

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



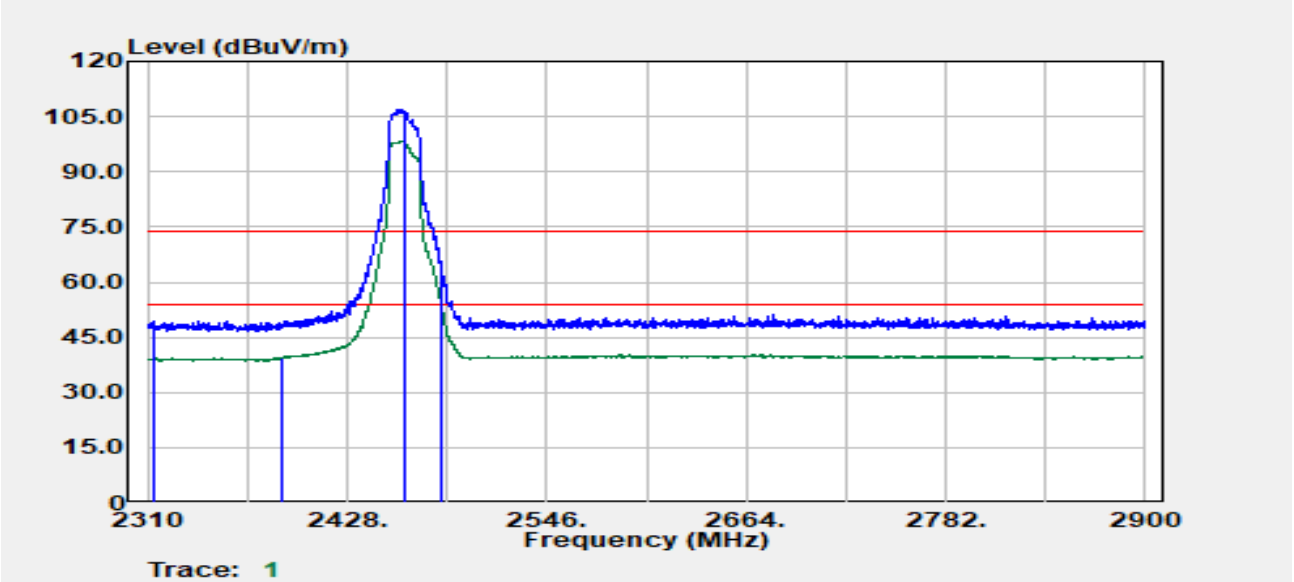
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2389.90	Peak	54.58	6.28	60.86	74.00	-13.14
2389.90	Average	43.94	6.28	50.22	54.00	-3.78
2412.00	Peak	99.50	6.31	105.80	--	--
2412.00	Average	90.33	6.31	96.63	--	--
2490.02	Peak	43.00	6.80	49.80	74.00	-24.20
2491.77	Average	32.91	6.81	39.72	54.00	-14.28

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



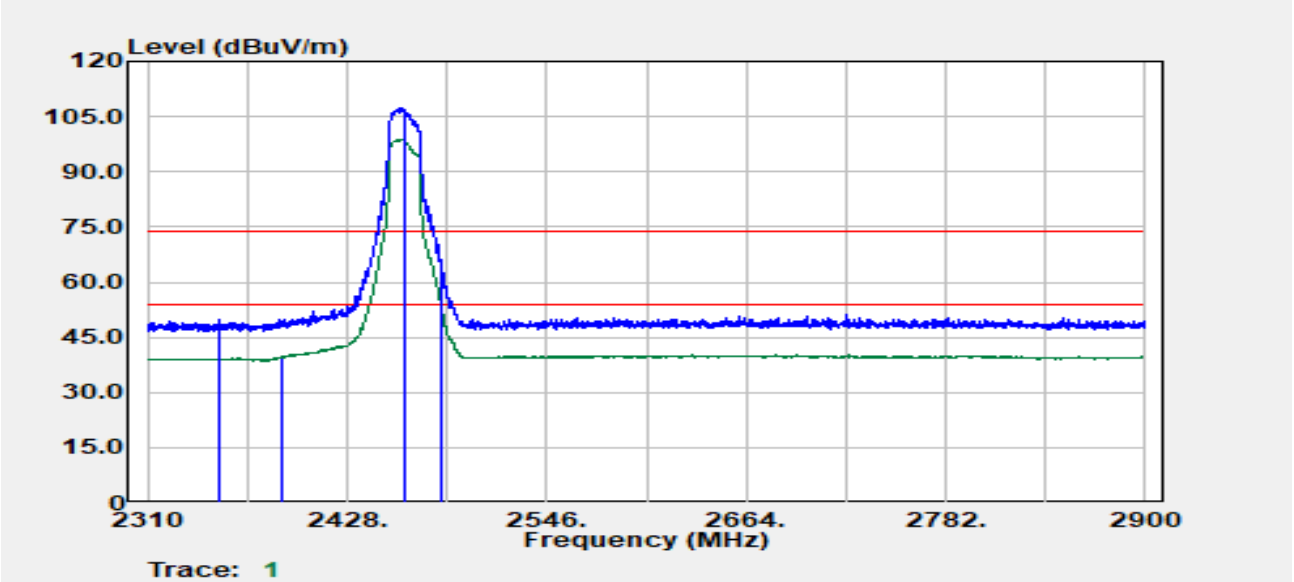
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2389.15	Peak	57.97	6.26	64.24	74.00	-9.76
2389.90	Average	46.19	6.28	52.47	54.00	-1.53
2412.00	Peak	101.05	6.31	107.35	--	--
2412.00	Average	92.62	6.31	98.92	--	--
2483.53	Average	34.40	6.71	41.12	54.00	-12.88
2484.53	Peak	44.51	6.73	51.24	74.00	-22.76

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



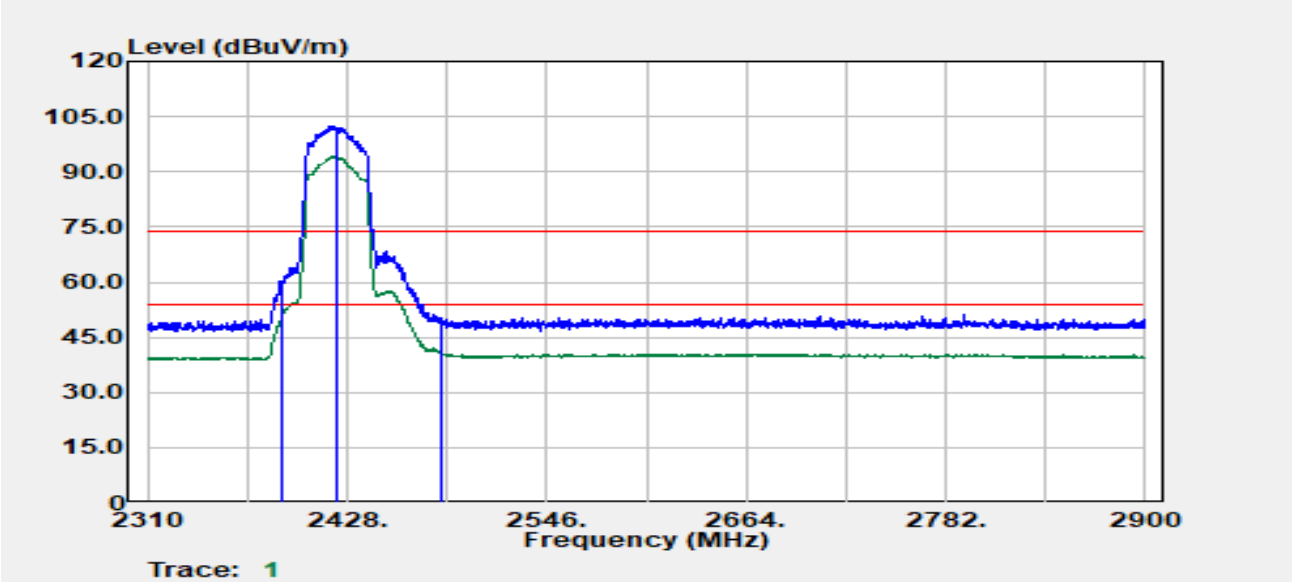
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2313.25	Peak	43.26	6.14	49.40	74.00	-24.60
2389.65	Average	33.22	6.27	39.50	54.00	-14.50
2462.00	Peak	100.72	6.32	107.04	--	--
2462.00	Average	91.89	6.32	98.21	--	--
2483.53	Peak	58.00	6.71	64.71	74.00	-9.29
2483.53	Average	45.60	6.71	52.31	54.00	-1.69

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



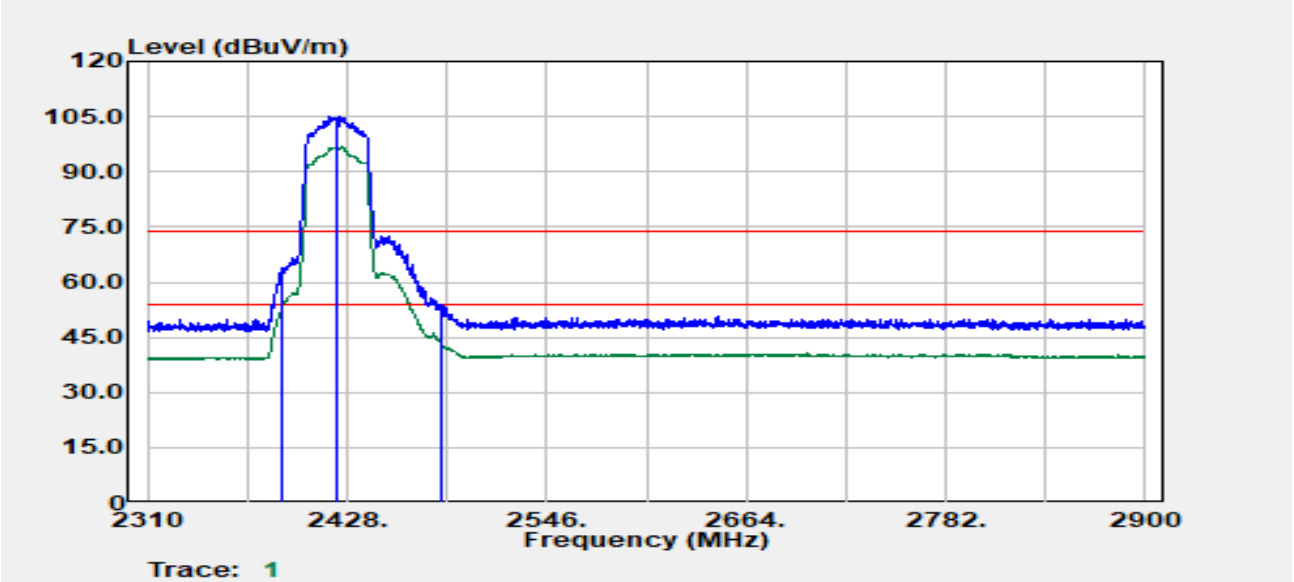
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2352.20	Peak	43.74	6.24	49.98	74.00	-24.02
2388.90	Average	33.30	6.26	39.55	54.00	-14.45
2462.00	Peak	101.19	6.32	107.51	--	--
2462.00	Average	92.49	6.32	98.81	--	--
2483.53	Peak	56.48	6.71	63.19	74.00	-10.81
2483.53	Average	46.76	6.71	53.47	54.00	-0.53

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



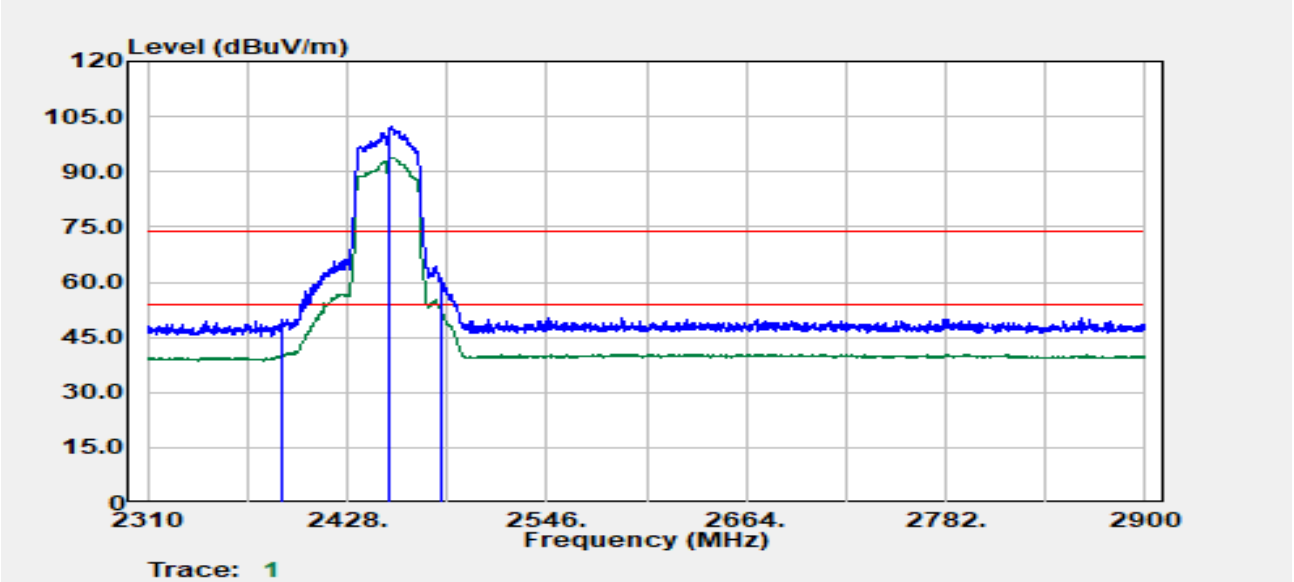
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2389.65	Peak	54.07	6.27	60.34	74.00	-13.66
2389.90	Average	44.79	6.28	51.07	54.00	-2.93
2422.00	Peak	96.22	6.34	102.56	--	--
2422.00	Average	87.99	6.34	94.33	--	--
2483.53	Average	33.90	6.71	40.62	54.00	-13.38
2484.03	Peak	43.38	6.72	50.10	74.00	-23.90

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2422 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



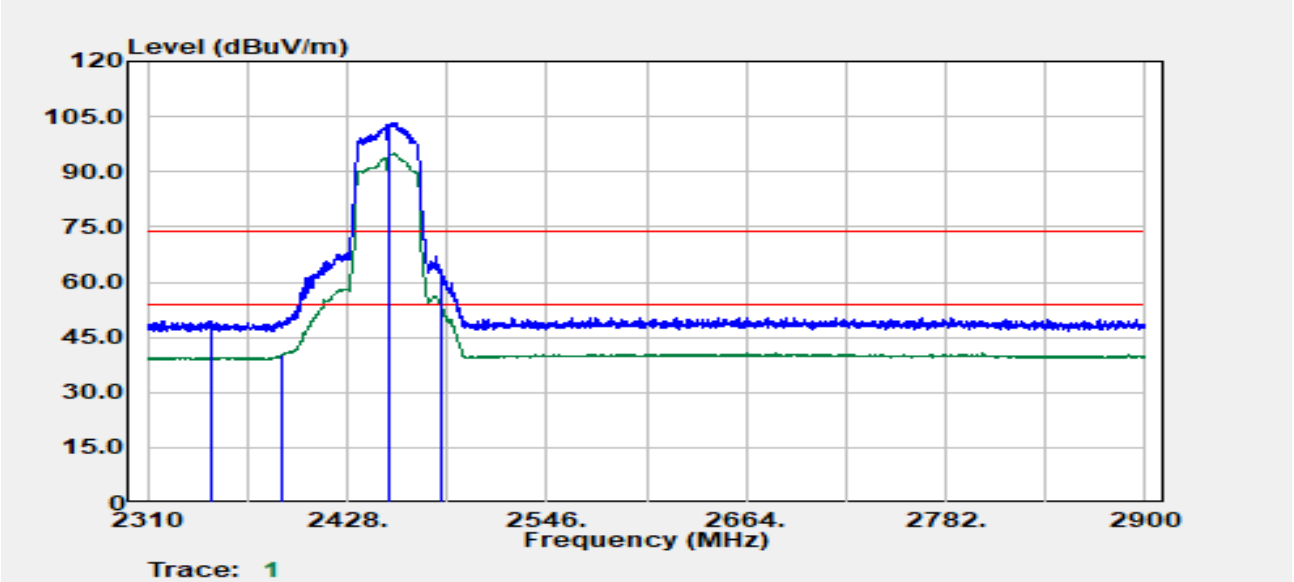
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2389.15	Peak	57.20	6.26	63.46	74.00	-10.54
2389.90	Average	47.05	6.28	53.33	54.00	-0.67
2422.00	Peak	98.74	6.34	105.08	--	--
2422.00	Average	90.42	6.34	96.75	--	--
2483.53	Average	36.81	6.71	43.53	54.00	-10.47
2484.03	Peak	47.05	6.72	53.77	74.00	-20.23

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2389.65	Peak	43.46	6.27	49.74	74.00	-24.26
2389.65	Average	33.74	6.27	40.02	54.00	-13.98
2452.00	Peak	95.97	6.34	102.31	--	--
2452.00	Average	87.60	6.34	93.94	--	--
2483.50	Peak	54.07	6.71	60.79	74.00	-13.21
2483.53	Average	45.86	6.71	52.57	54.00	-1.43

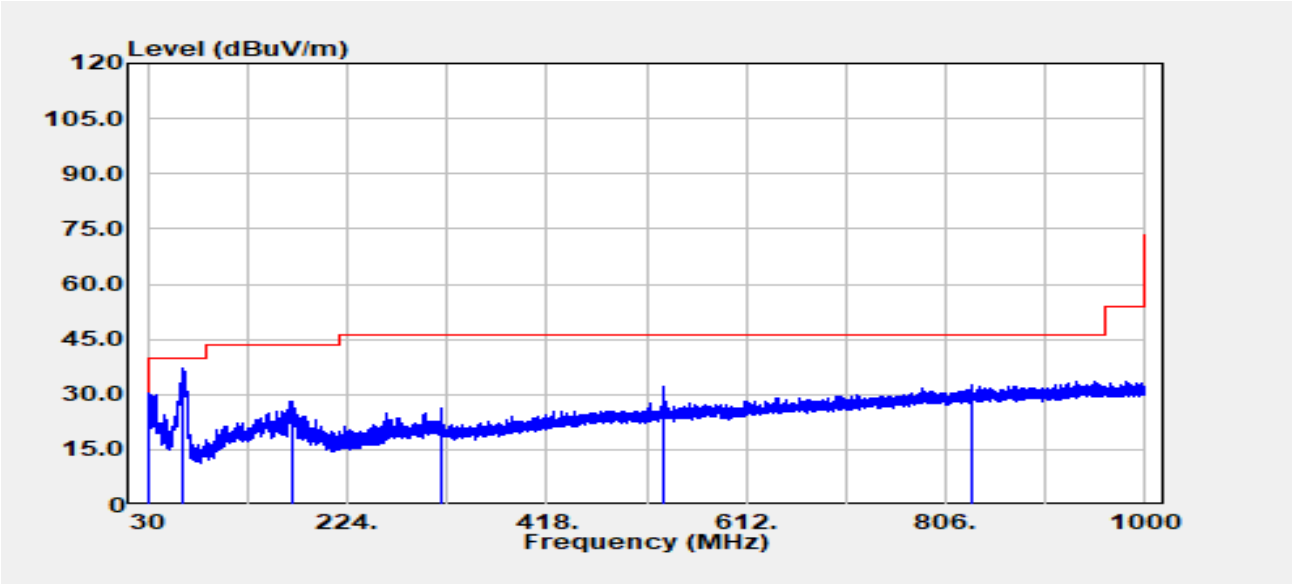
Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2347.45	Peak	43.25	6.21	49.46	74.00	-24.54
2389.65	Average	34.00	6.27	40.27	54.00	-13.73
2452.00	Peak	96.94	6.34	103.28	--	--
2452.00	Average	88.63	6.34	94.97	--	--
2483.53	Average	46.63	6.71	53.34	54.00	-0.66
2484.03	Peak	55.38	6.72	62.10	74.00	-11.90

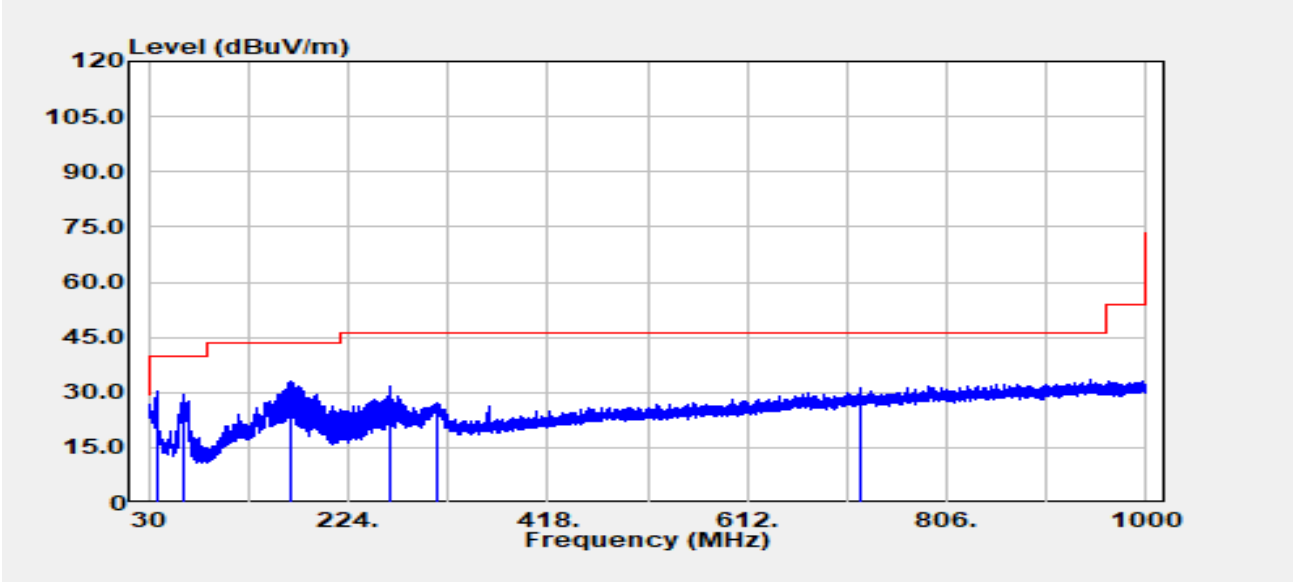
TX Test Data

Project No	:TM-2311000354P	Test Date	:2024-03-29
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



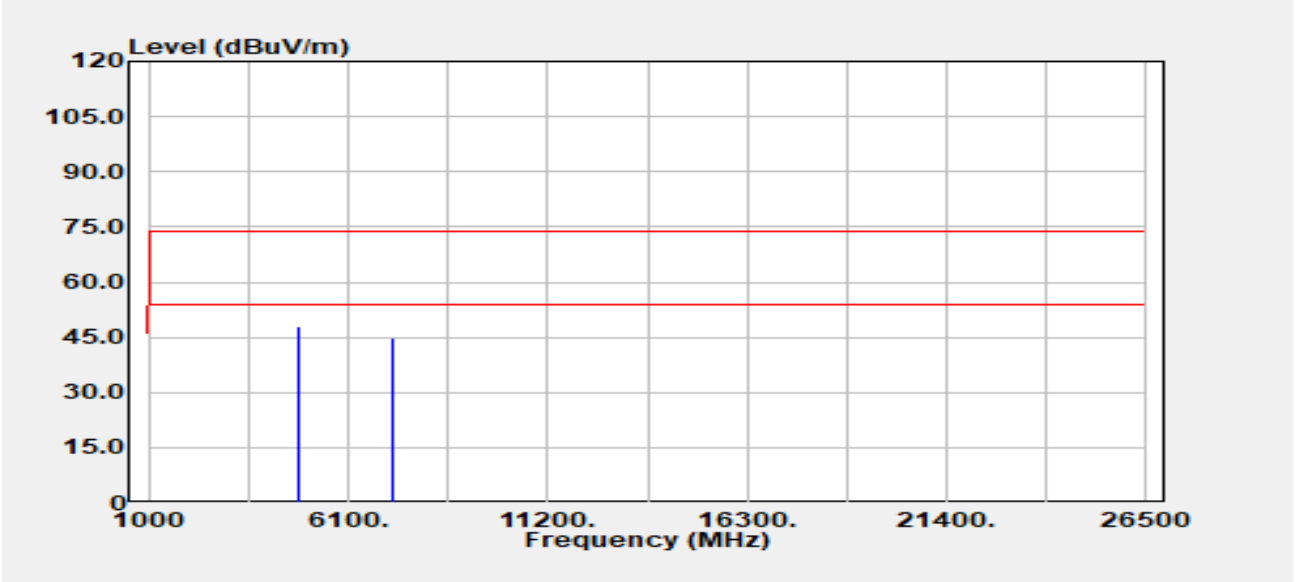
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
31.90	Peak	33.65	-3.40	30.25	40.00	-9.75
64.60	Peak	52.53	-15.30	37.23	40.00	-2.77
170.20	Peak	39.09	-11.08	28.01	43.50	-15.49
314.90	Peak	34.21	-8.13	26.08	46.00	-19.92
531.10	Peak	34.97	-2.96	32.01	46.00	-13.99
830.20	Peak	30.32	2.06	32.39	46.00	-13.61

Project No	:TM-2311000354P	Test Date	:2024-03-29
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



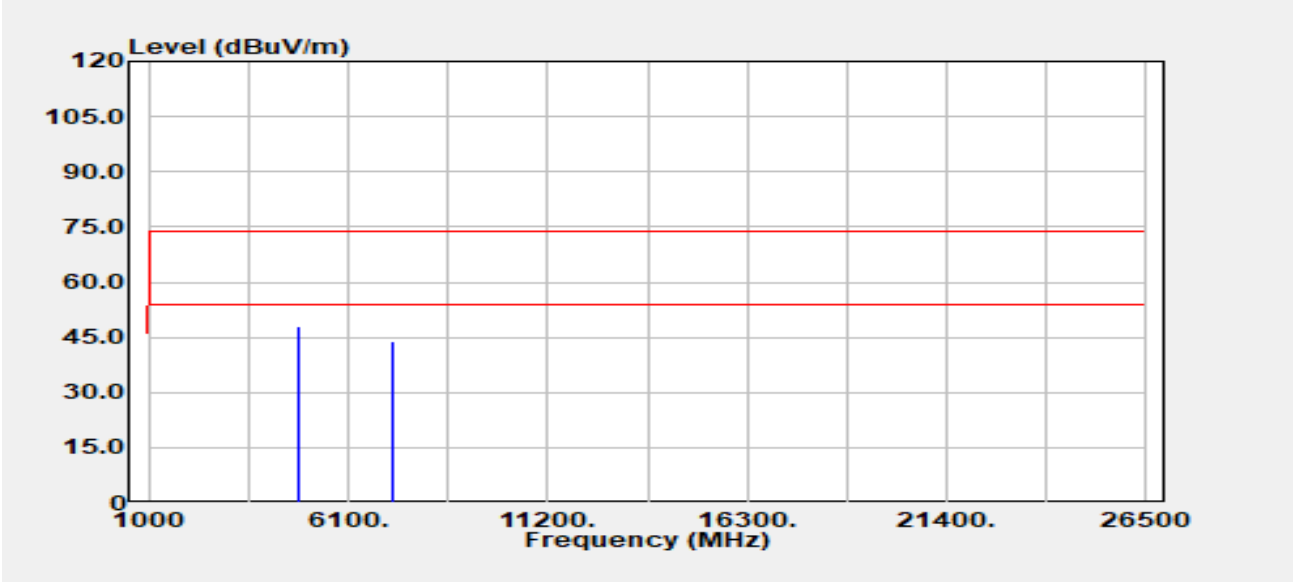
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
37.60	Peak	38.05	-7.71	30.34	40.00	-9.66
64.30	Peak	44.77	-15.33	29.44	40.00	-10.56
167.90	Peak	43.77	-10.91	32.86	43.50	-10.64
264.10	Peak	41.13	-9.55	31.58	46.00	-14.42
309.30	Peak	35.62	-8.36	27.26	46.00	-18.74
721.30	Peak	30.81	0.36	31.17	46.00	-14.83

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



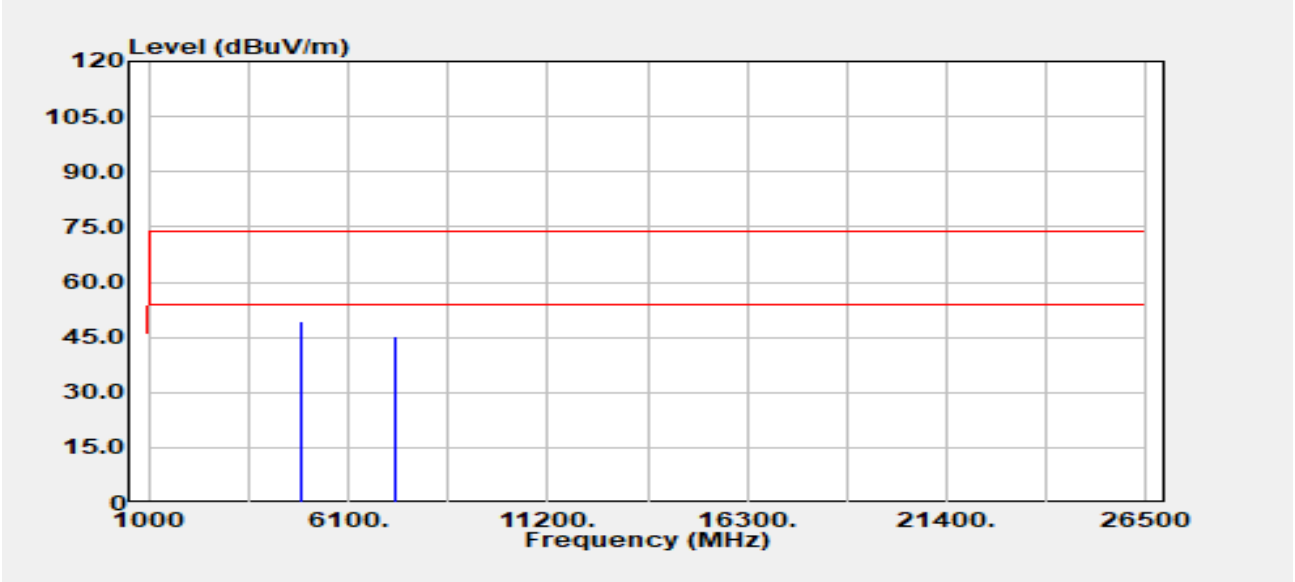
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	45.97	2.25	48.22	74.00	-25.78
4824.00	Average	45.45	2.25	47.70	54.00	-6.30
7236.00	Peak	35.51	9.17	44.68	74.00	-29.32
7236.00	Average	28.76	9.17	37.92	54.00	-16.08

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



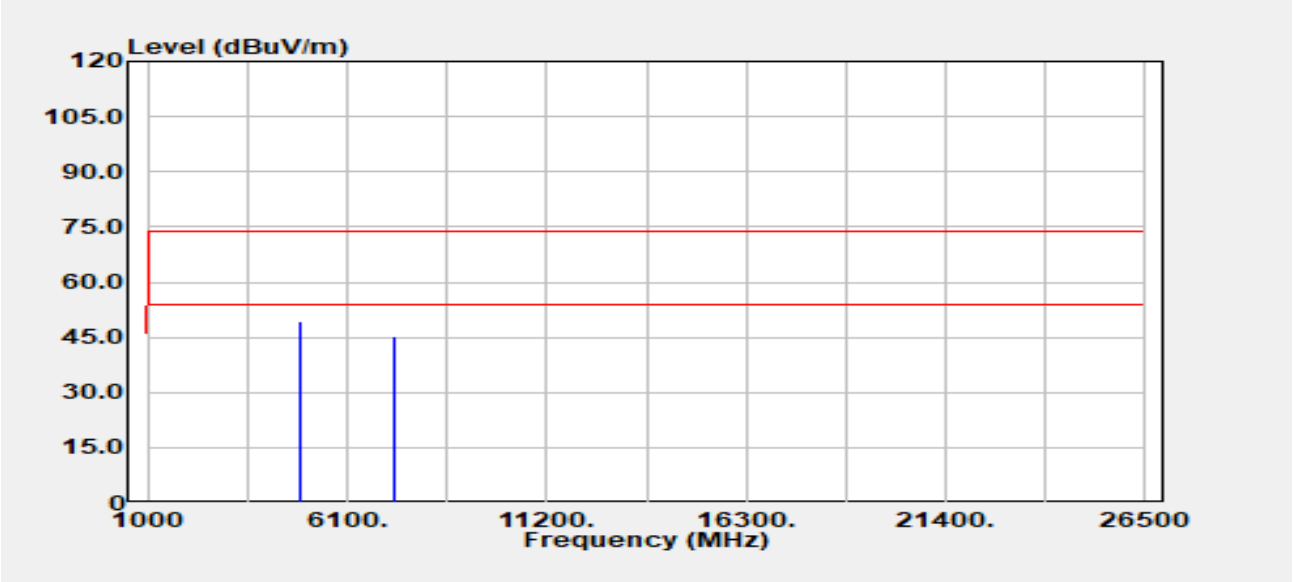
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	45.78	2.25	48.03	74.00	-25.97
4824.00	Average	43.88	2.25	46.14	54.00	-7.86
7236.00	Peak	34.98	9.17	44.15	74.00	-29.85
7236.00	Average	28.22	9.17	37.38	54.00	-16.62

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



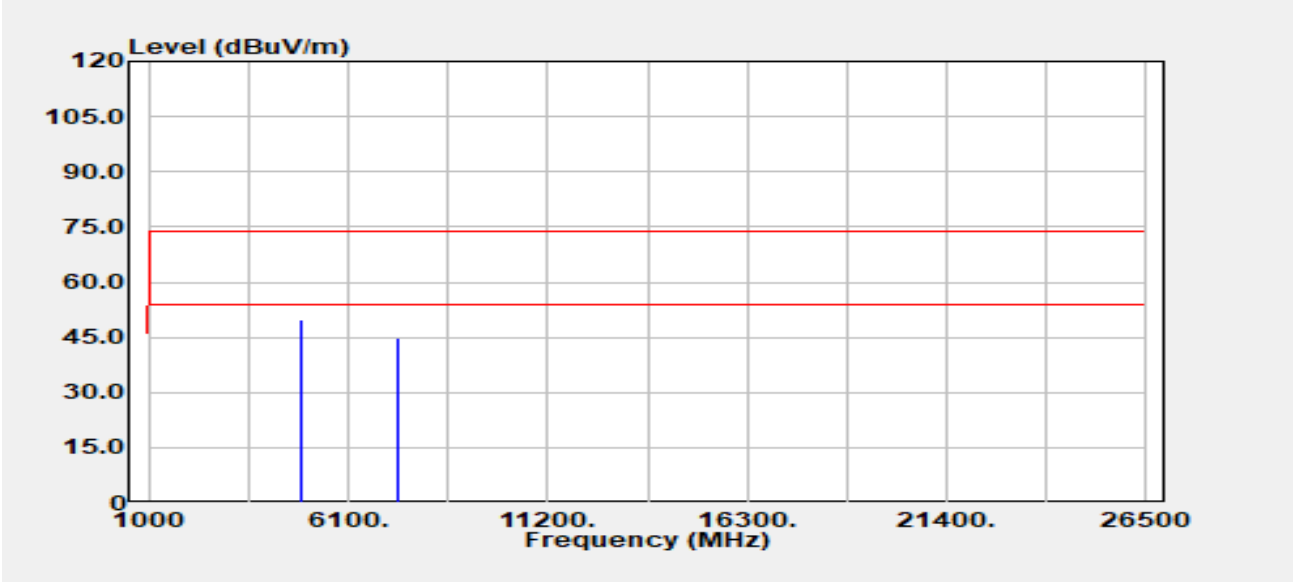
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	46.76	2.49	49.25	74.00	-24.75
4874.00	Average	45.01	2.49	47.50	54.00	-6.50
7311.00	Peak	36.19	8.96	45.15	74.00	-28.85
7311.00	Average	30.86	8.96	39.83	54.00	-14.17

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



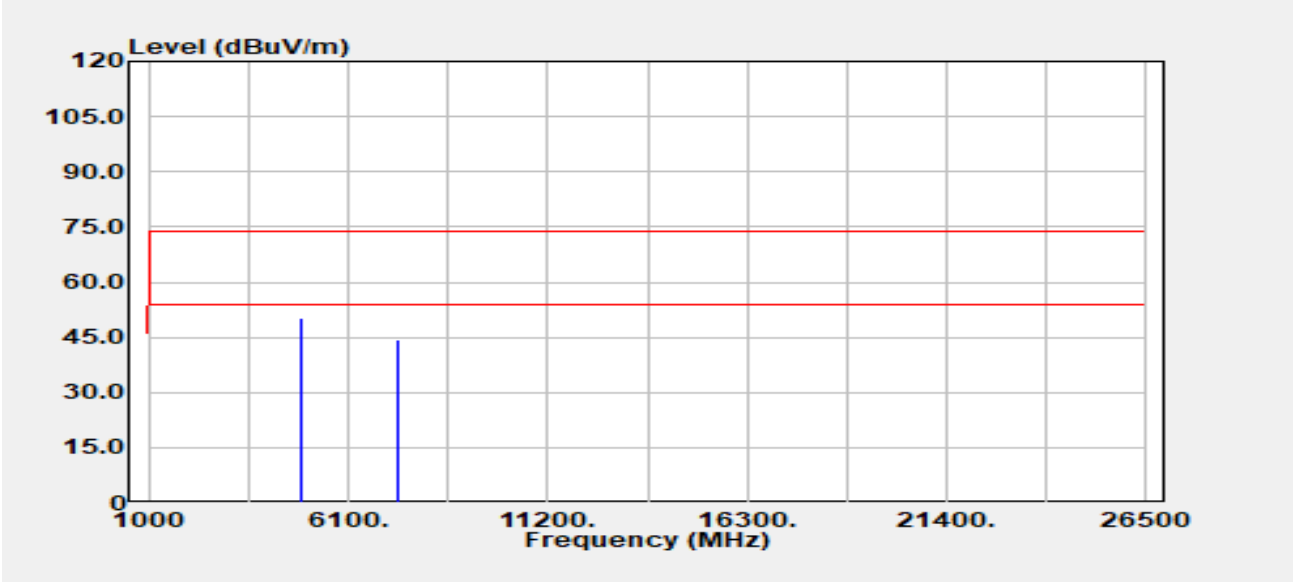
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	47.05	2.49	49.54	74.00	-24.46
4874.00	Average	45.58	2.49	48.07	54.00	-5.93
7311.00	Peak	36.22	8.96	45.18	74.00	-28.82
7311.00	Average	30.12	8.96	39.09	54.00	-14.91

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



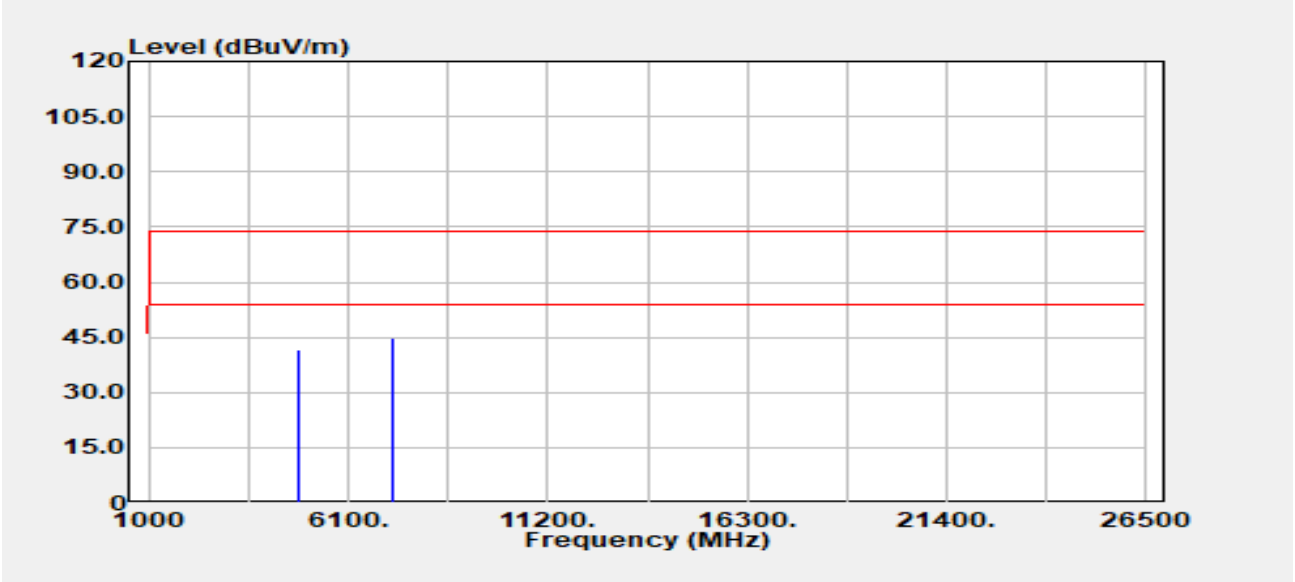
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	47.09	2.93	50.02	74.00	-23.98
4924.00	Average	47.04	2.93	49.97	54.00	-4.03
7386.00	Peak	35.73	9.01	44.75	74.00	-29.25
7386.00	Average	30.26	9.01	39.27	54.00	-14.73

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11b	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



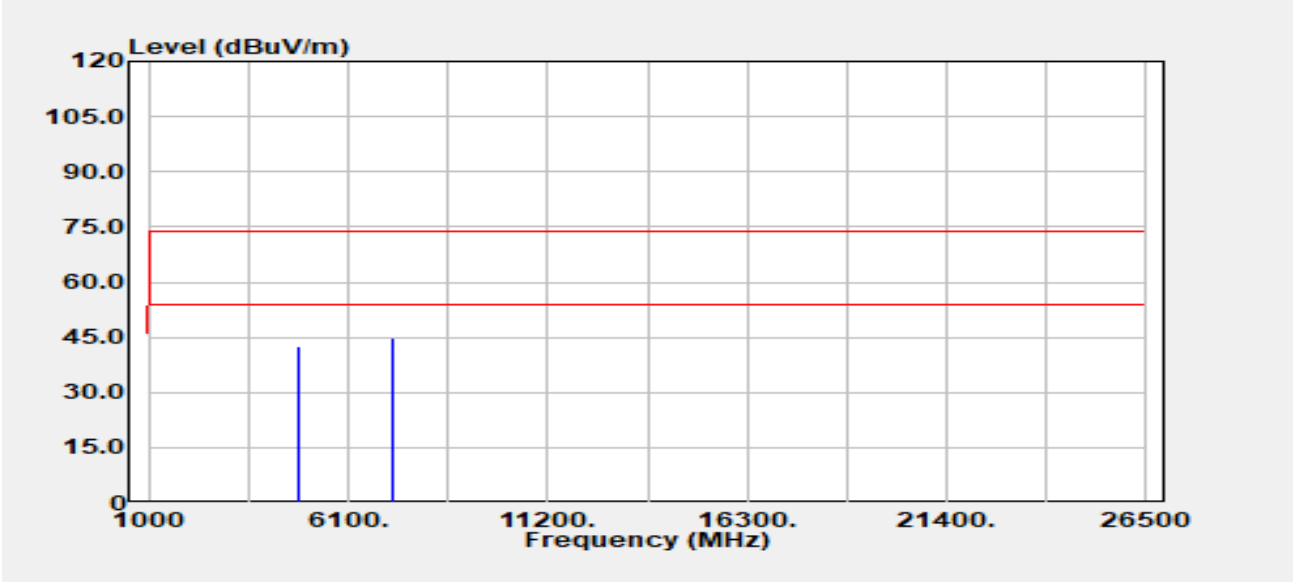
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	47.14	2.93	50.07	74.00	-23.93
4924.00	Average	45.87	2.93	48.80	54.00	-5.20
7386.00	Peak	35.45	9.01	44.46	74.00	-29.54
7386.00	Average	30.96	9.01	39.97	54.00	-14.03

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



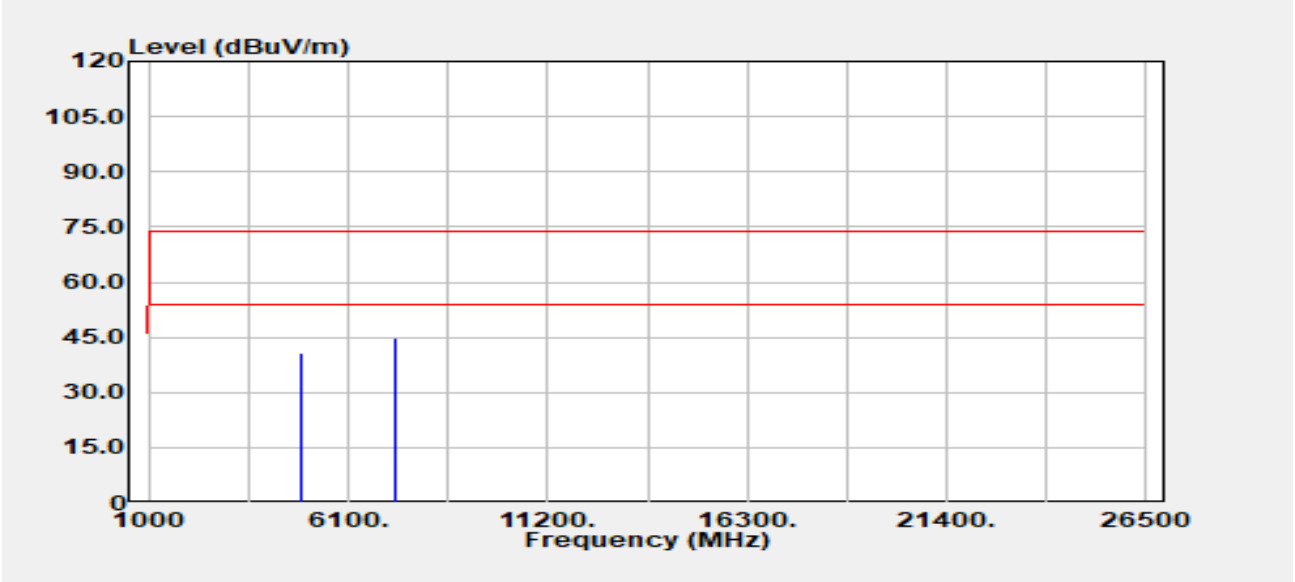
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	39.38	2.25	41.63	74.00	-32.37
4824.00	Average	33.74	2.25	35.99	54.00	-18.01
7236.00	Peak	35.63	9.17	44.79	74.00	-29.21
7236.00	Average	26.33	9.17	35.50	54.00	-18.50

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



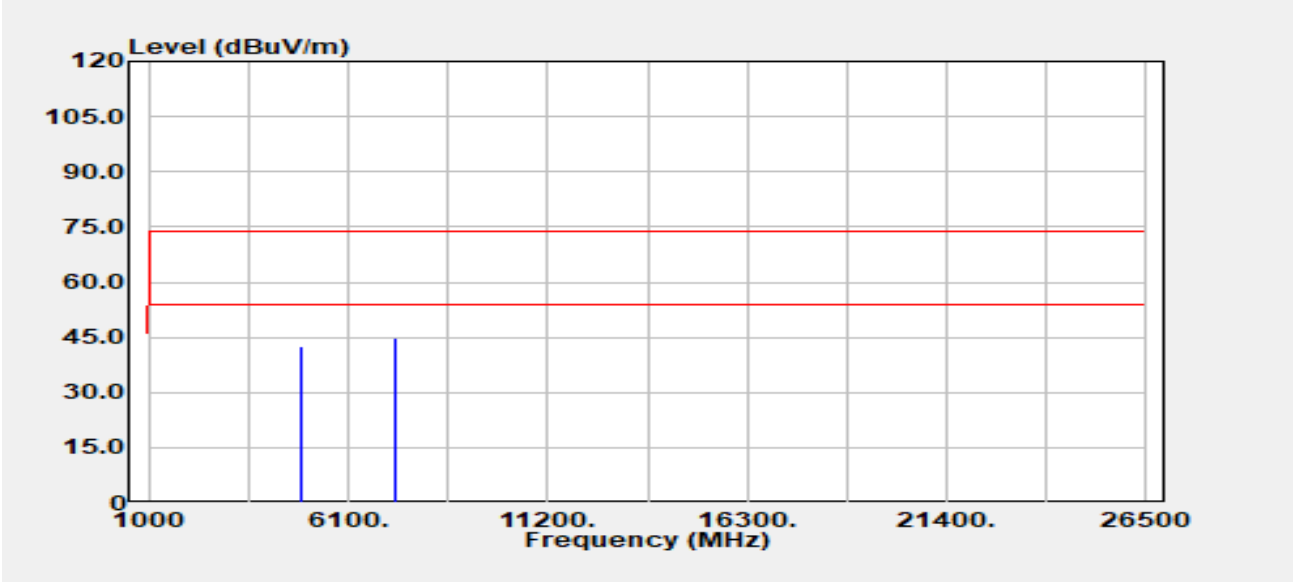
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	40.45	2.25	42.70	74.00	-31.30
4824.00	Average	32.52	2.25	34.77	54.00	-19.23
7236.00	Peak	35.68	9.17	44.85	74.00	-29.15
7236.00	Average	26.20	9.17	35.37	54.00	-18.63

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



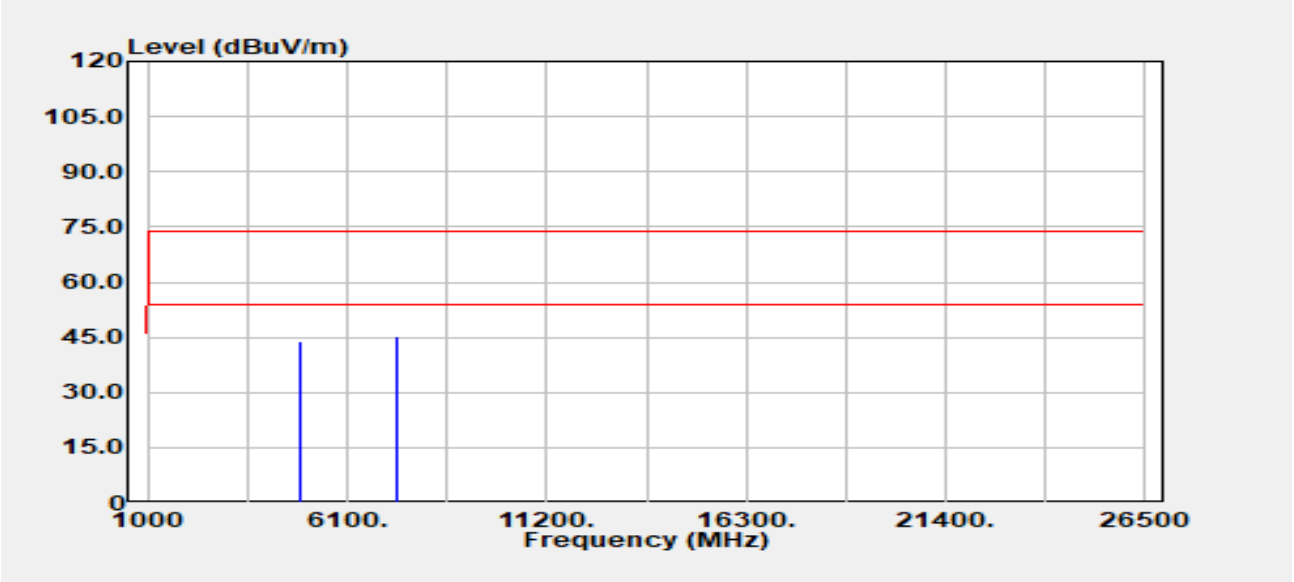
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	38.35	2.49	40.84	74.00	-33.16
4874.00	Average	32.38	2.49	34.87	54.00	-19.13
7311.00	Peak	35.67	8.96	44.63	74.00	-29.37
7311.00	Average	26.52	8.96	35.49	54.00	-18.51

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



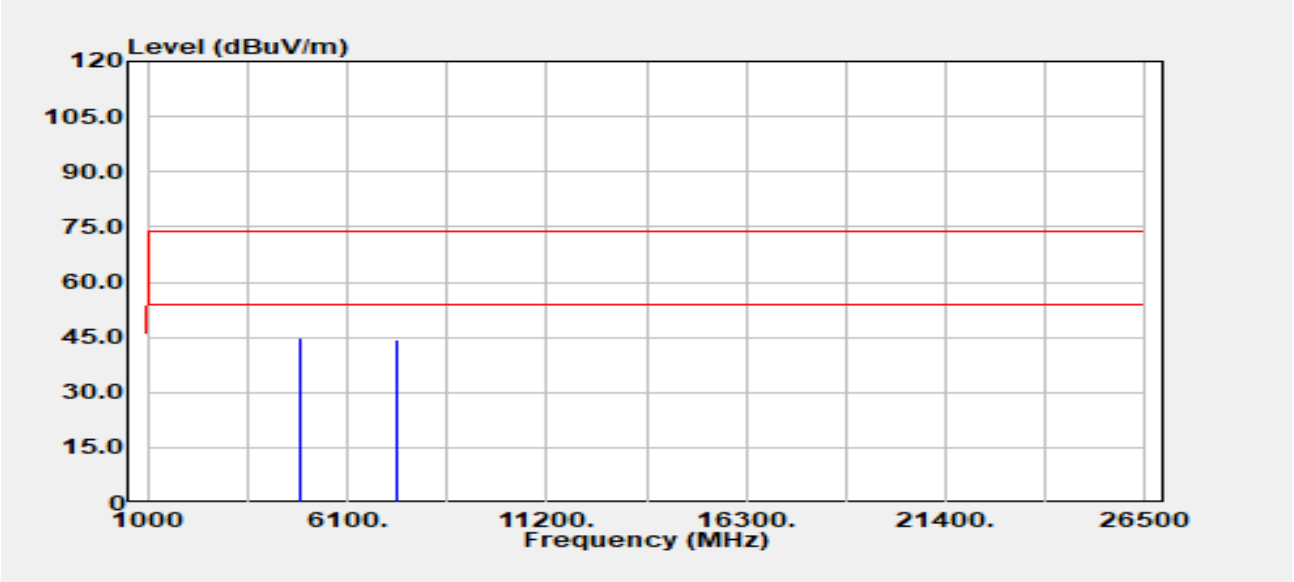
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	40.15	2.49	42.65	74.00	-31.35
4874.00	Average	31.83	2.49	34.32	54.00	-19.68
7311.00	Peak	35.98	8.96	44.95	74.00	-29.05
7311.00	Average	26.34	8.96	35.30	54.00	-18.70

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



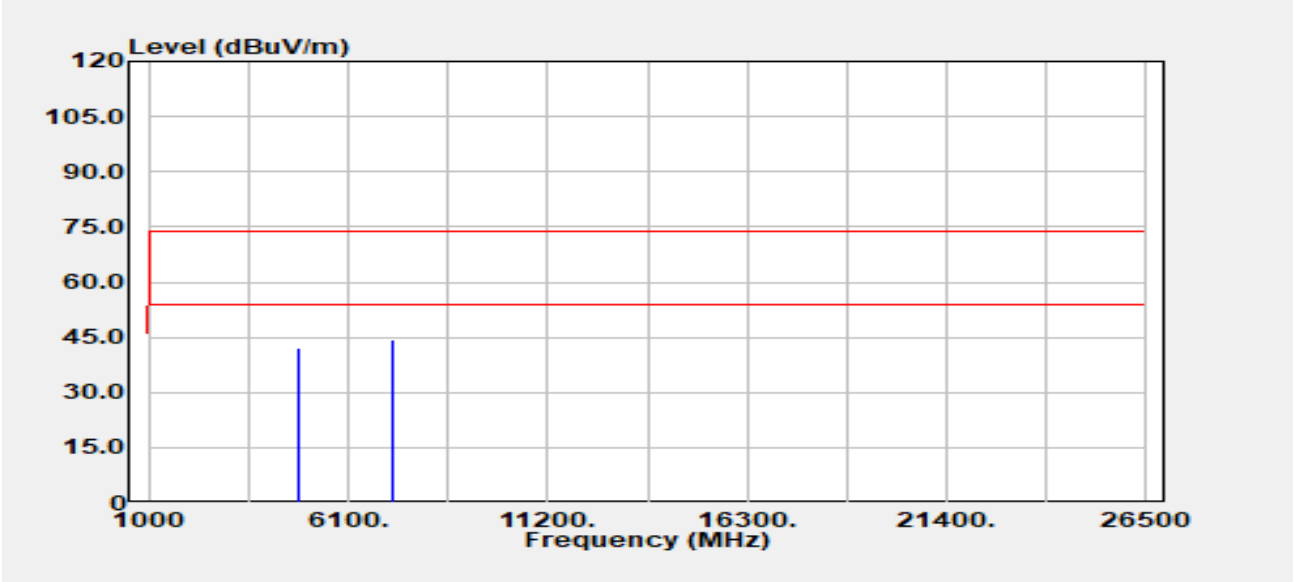
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	41.20	2.93	44.13	74.00	-29.87
4924.00	Average	33.19	2.93	36.11	54.00	-17.89
7386.00	Peak	36.09	9.01	45.10	74.00	-28.90
7386.00	Average	26.26	9.01	35.27	54.00	-18.73

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11g	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



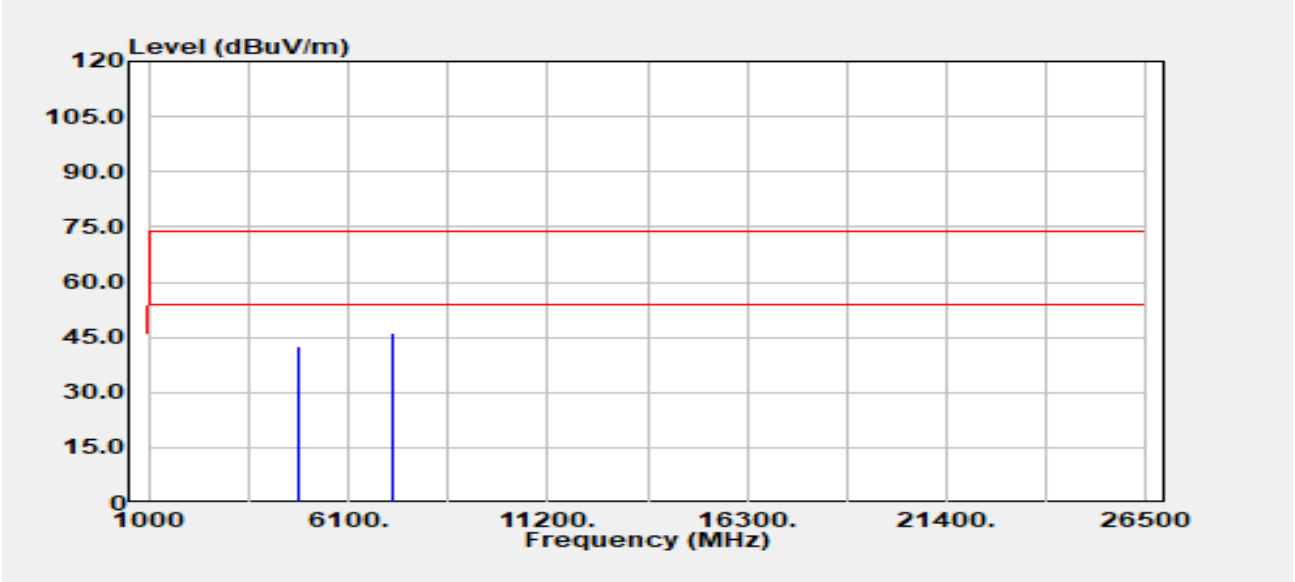
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	41.73	2.93	44.65	74.00	-29.35
4924.00	Average	33.63	2.93	36.55	54.00	-17.45
7386.00	Peak	35.41	9.01	44.42	74.00	-29.58
7386.00	Average	26.19	9.01	35.21	54.00	-18.79

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



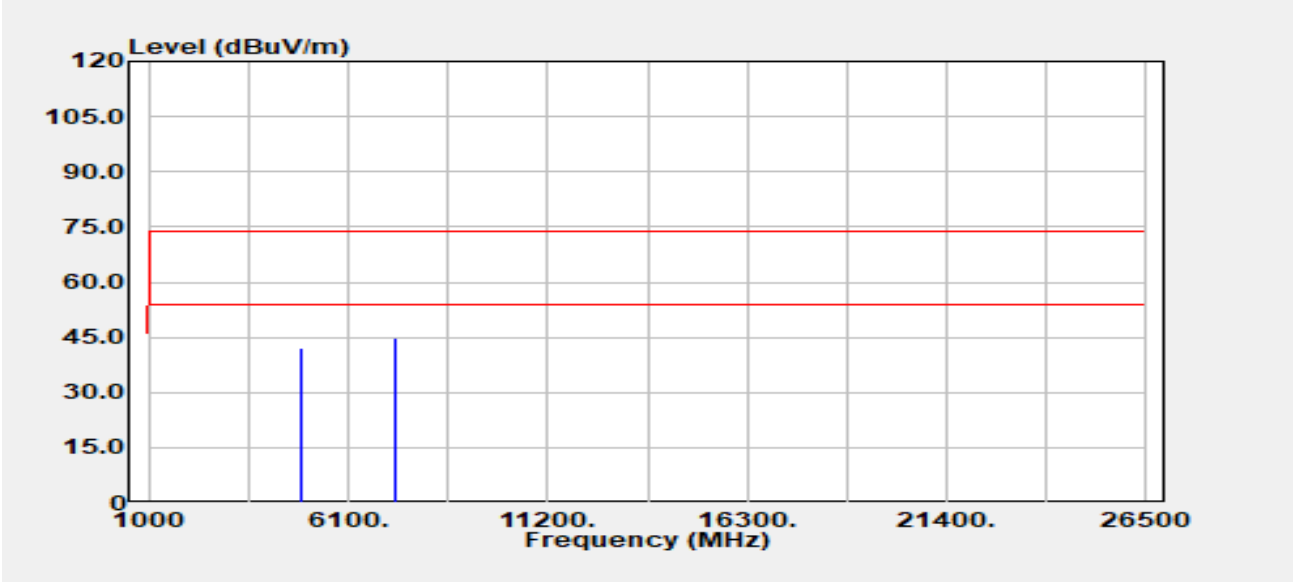
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	40.06	2.25	42.31	74.00	-31.69
4824.00	Average	32.53	2.25	34.78	54.00	-19.22
7236.00	Peak	35.23	9.17	44.40	74.00	-29.60
7236.00	Average	26.34	9.17	35.50	54.00	-18.50

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2412 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



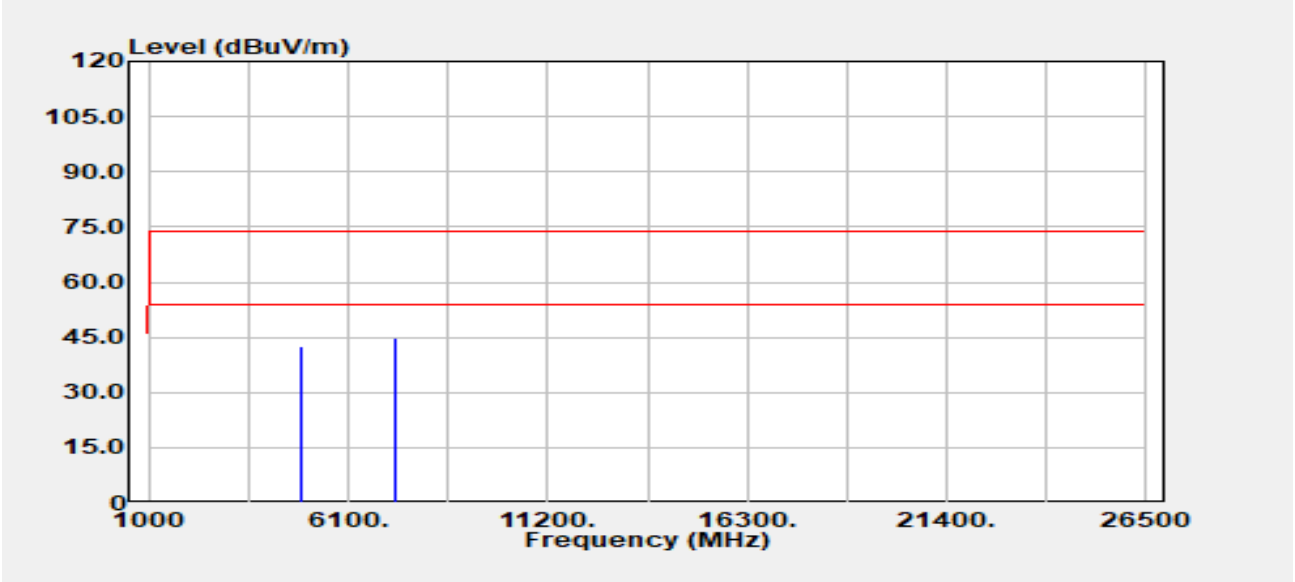
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4824.00	Peak	40.39	2.25	42.64	74.00	-31.36
4824.00	Average	31.85	2.25	34.10	54.00	-19.90
7236.00	Peak	37.00	9.17	46.16	74.00	-27.84
7236.00	Average	26.28	9.17	35.45	54.00	-18.55

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



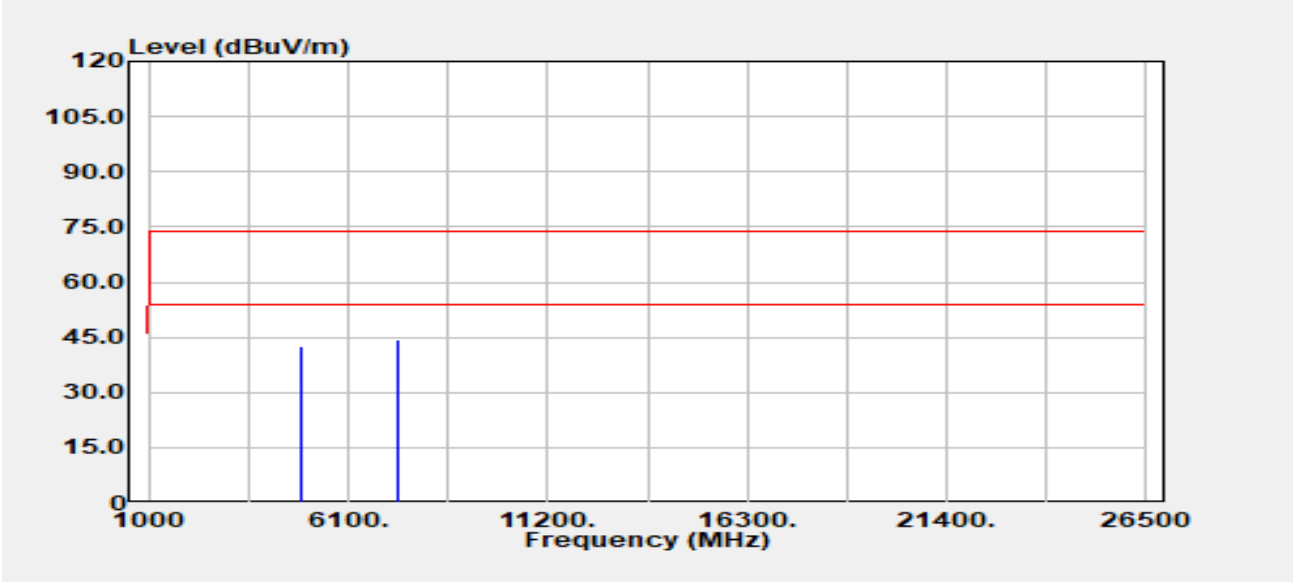
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	39.45	2.49	41.95	74.00	-32.05
4874.00	Average	31.94	2.49	34.44	54.00	-19.56
7311.00	Peak	35.91	8.96	44.88	74.00	-29.12
7311.00	Average	26.64	8.96	35.60	54.00	-18.40

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



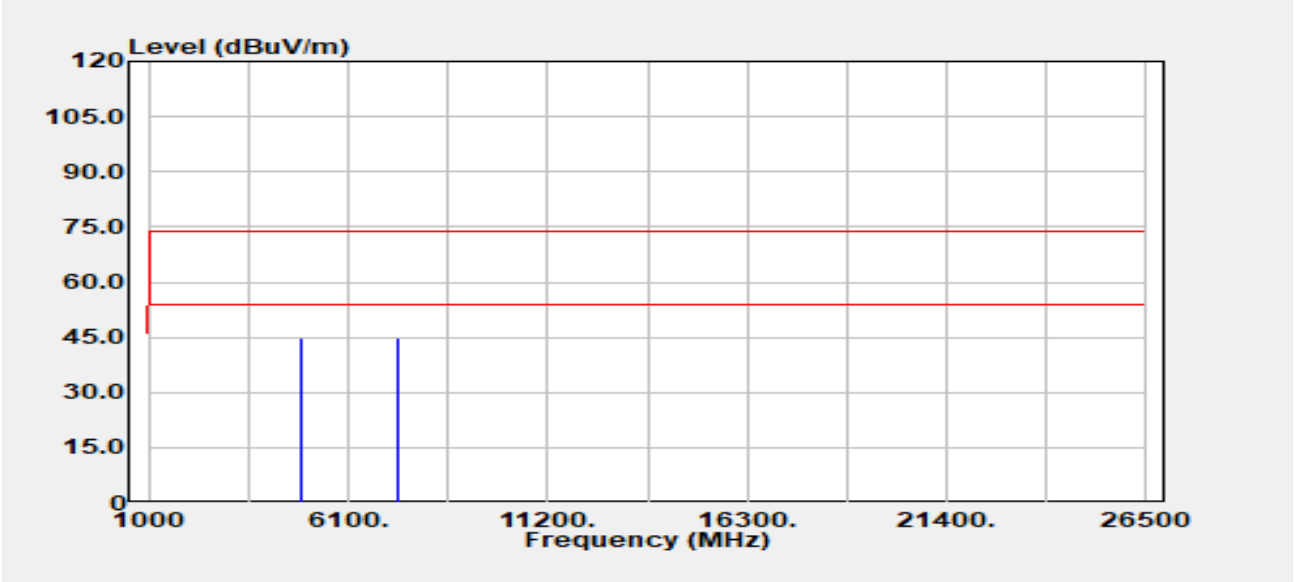
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	40.09	2.49	42.58	74.00	-31.42
4874.00	Average	31.35	2.49	33.84	54.00	-20.16
7311.00	Peak	35.92	8.96	44.89	74.00	-29.11
7311.00	Average	26.38	8.96	35.35	54.00	-18.65

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



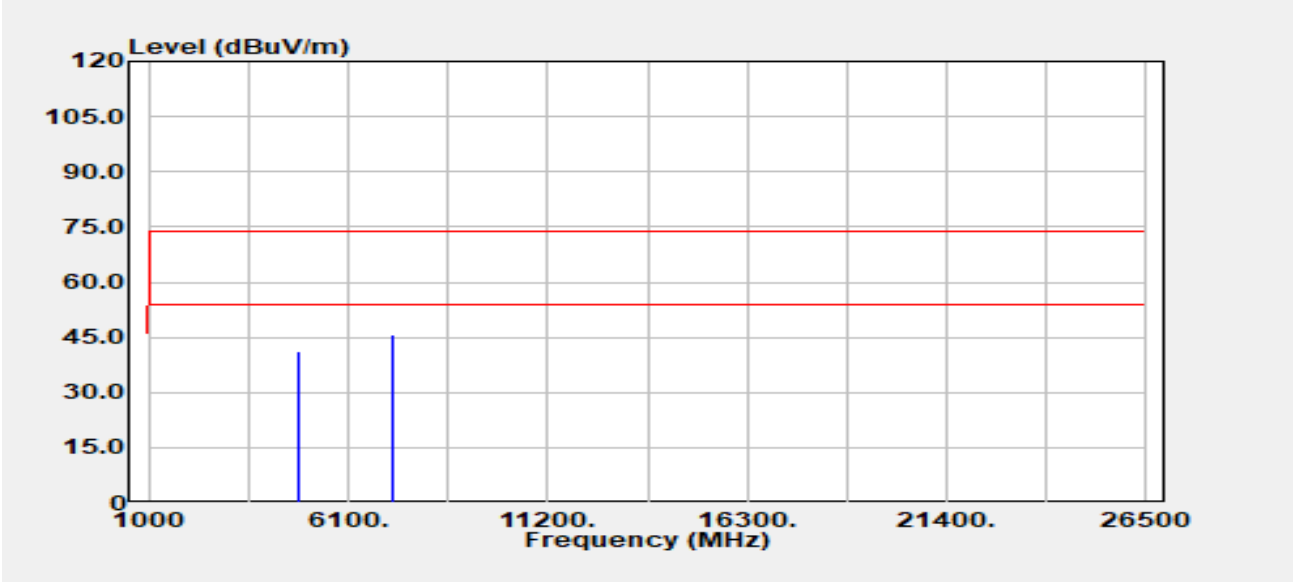
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	39.46	2.93	42.39	74.00	-31.61
4924.00	Average	32.40	2.93	35.33	54.00	-18.67
7386.00	Peak	35.30	9.01	44.31	74.00	-29.69
7386.00	Average	26.20	9.01	35.22	54.00	-18.78

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n20	Temp./Humi.	:24.6/57
Frequency	:2462 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



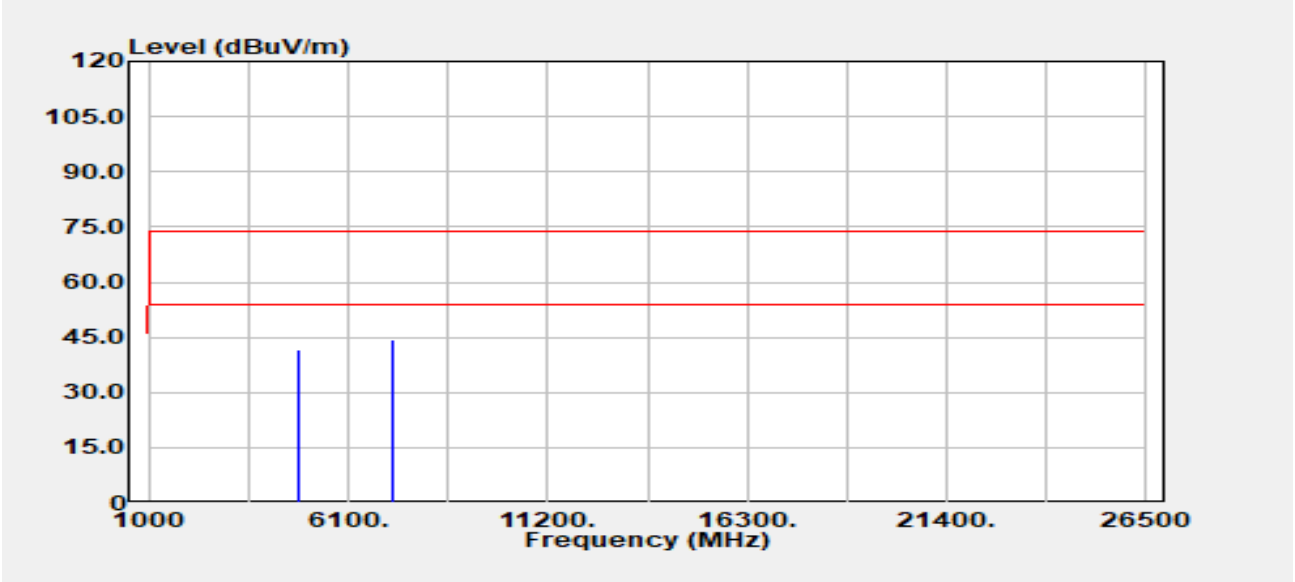
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4924.00	Peak	42.08	2.93	45.01	74.00	-28.99
4924.00	Average	33.01	2.93	35.94	54.00	-18.06
7386.00	Peak	35.78	9.01	44.79	74.00	-29.21
7386.00	Average	26.22	9.01	35.23	54.00	-18.77

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2422 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



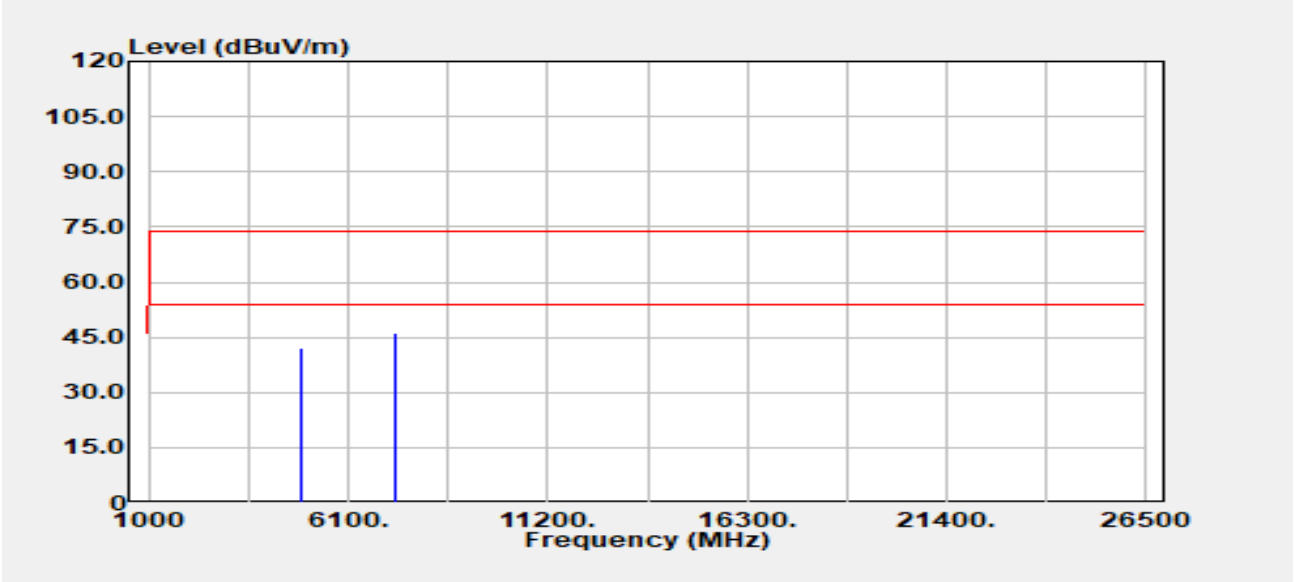
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4844.00	Peak	39.09	2.28	41.36	74.00	-32.64
4844.00	Average	32.38	2.28	34.66	54.00	-19.34
7266.00	Peak	36.41	9.15	45.56	74.00	-28.44
7266.00	Average	26.97	9.15	36.12	54.00	-17.88

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2422 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



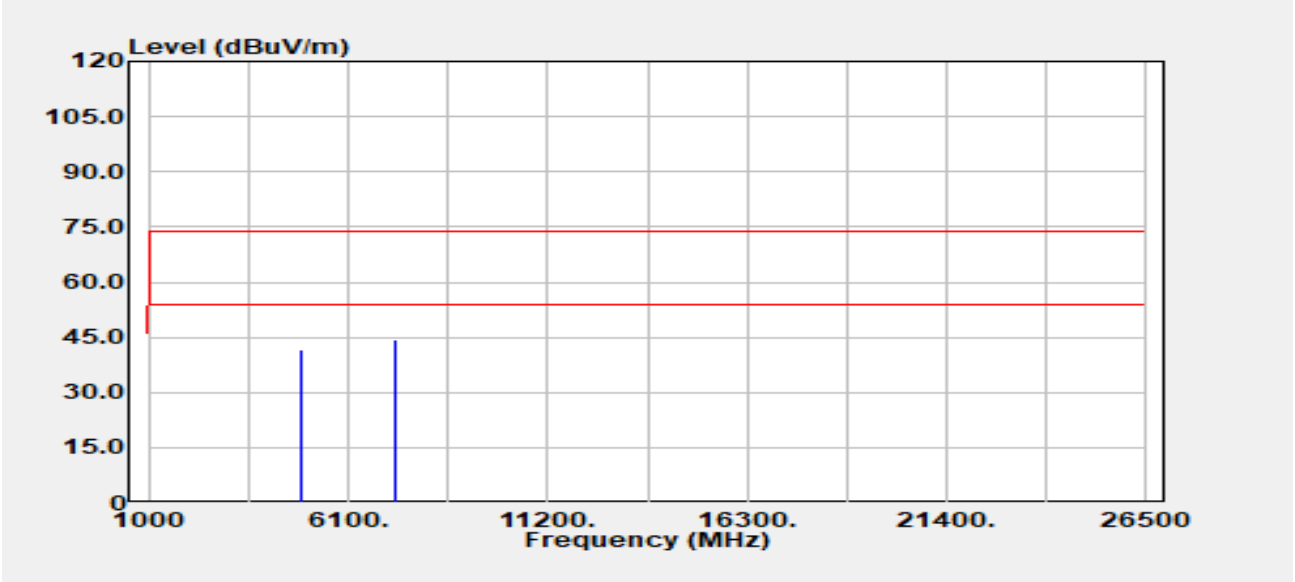
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4844.00	Peak	39.24	2.28	41.52	74.00	-32.48
4844.00	Average	31.86	2.28	34.14	54.00	-19.86
7266.00	Peak	35.11	9.15	44.27	74.00	-29.73
7266.00	Average	26.93	9.15	36.09	54.00	-17.91

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



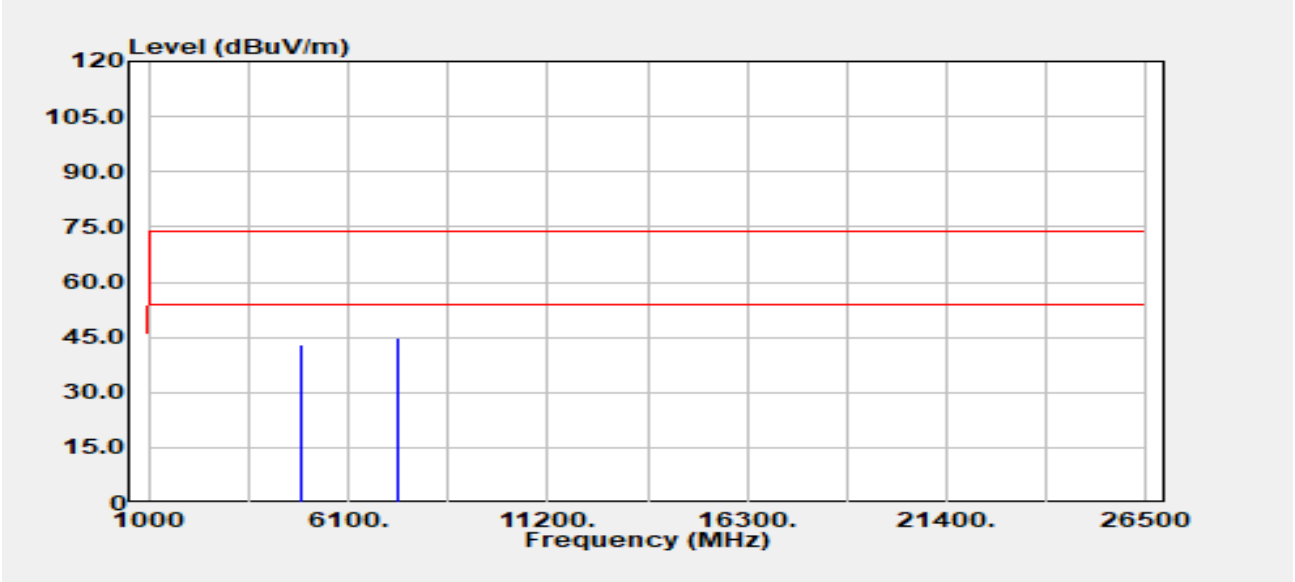
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	39.57	2.49	42.06	74.00	-31.94
4874.00	Average	31.14	2.49	33.64	54.00	-20.36
7311.00	Peak	37.38	8.96	46.34	74.00	-27.66
7311.00	Average	27.09	8.96	36.05	54.00	-17.95

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2437 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



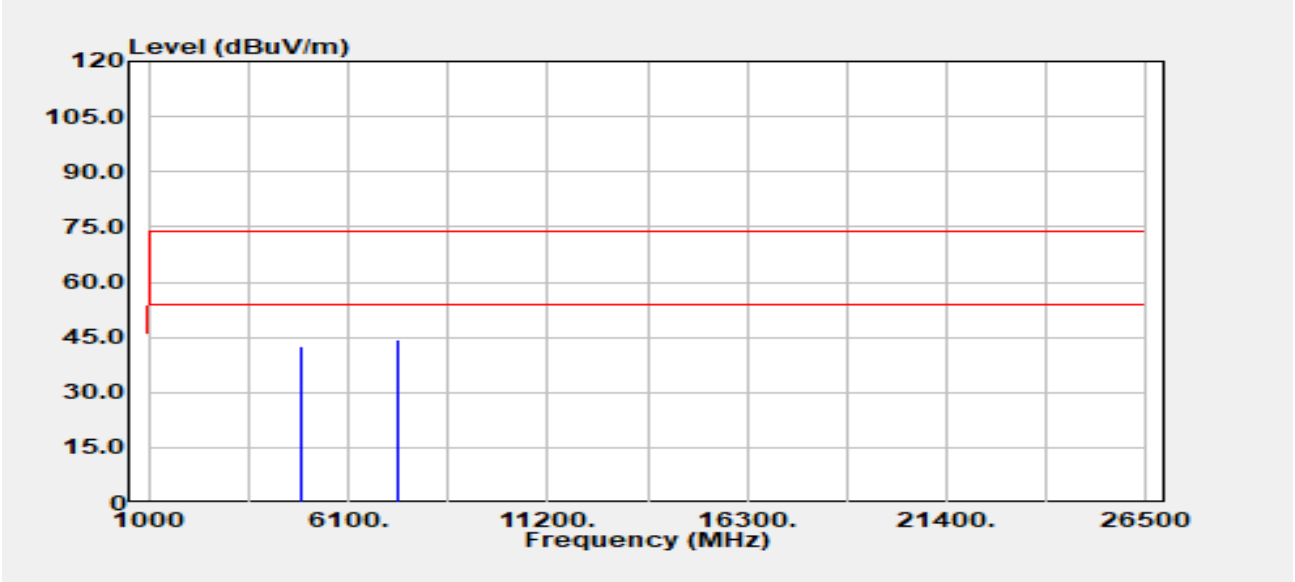
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4874.00	Peak	39.09	2.49	41.58	74.00	-32.42
4874.00	Average	30.40	2.49	32.89	54.00	-21.11
7311.00	Peak	35.53	8.96	44.50	74.00	-29.50
7311.00	Average	27.13	8.96	36.09	54.00	-17.91

Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4904.00	Peak	40.38	2.75	43.14	74.00	-30.86
4904.00	Average	31.43	2.75	34.18	54.00	-19.82
7356.00	Peak	35.66	8.95	44.61	74.00	-29.39
7356.00	Average	26.99	8.95	35.94	54.00	-18.06

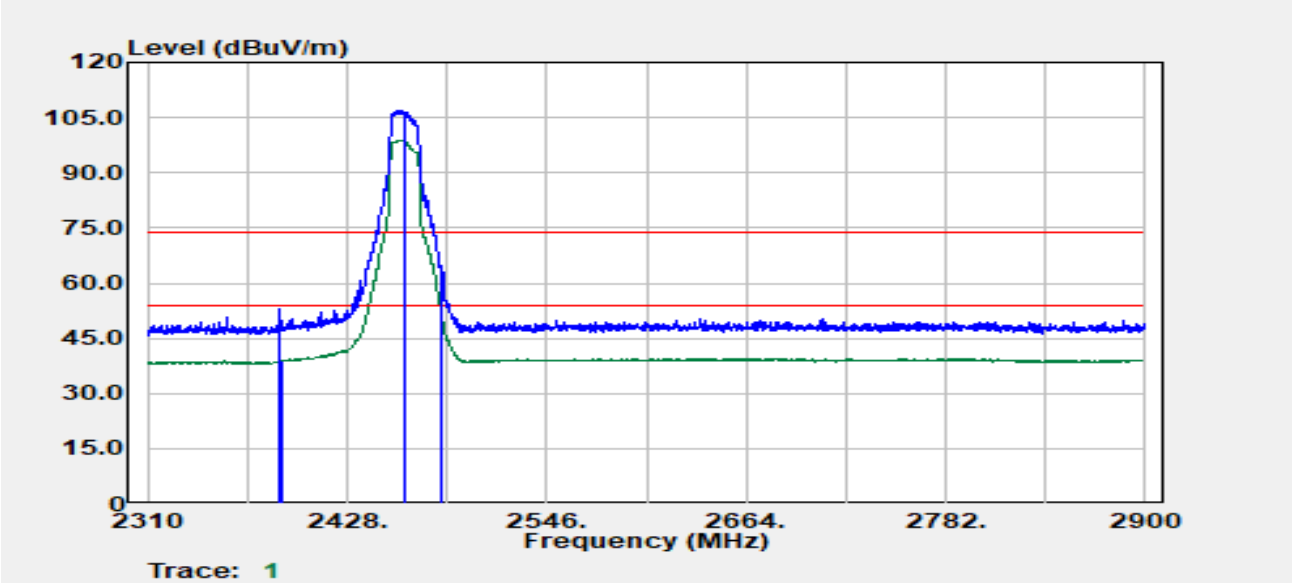
Project No	:TM-2311000354P	Test Date	:2024-03-27
Operation Band	:802.11n40	Temp./Humi.	:24.6/57
Frequency	:2452 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4904.00	Peak	39.79	2.75	42.54	74.00	-31.46
4904.00	Average	31.41	2.75	34.17	54.00	-19.83
7356.00	Peak	35.38	8.95	44.34	74.00	-29.66
7356.00	Average	26.96	8.95	35.91	54.00	-18.09

Co-location

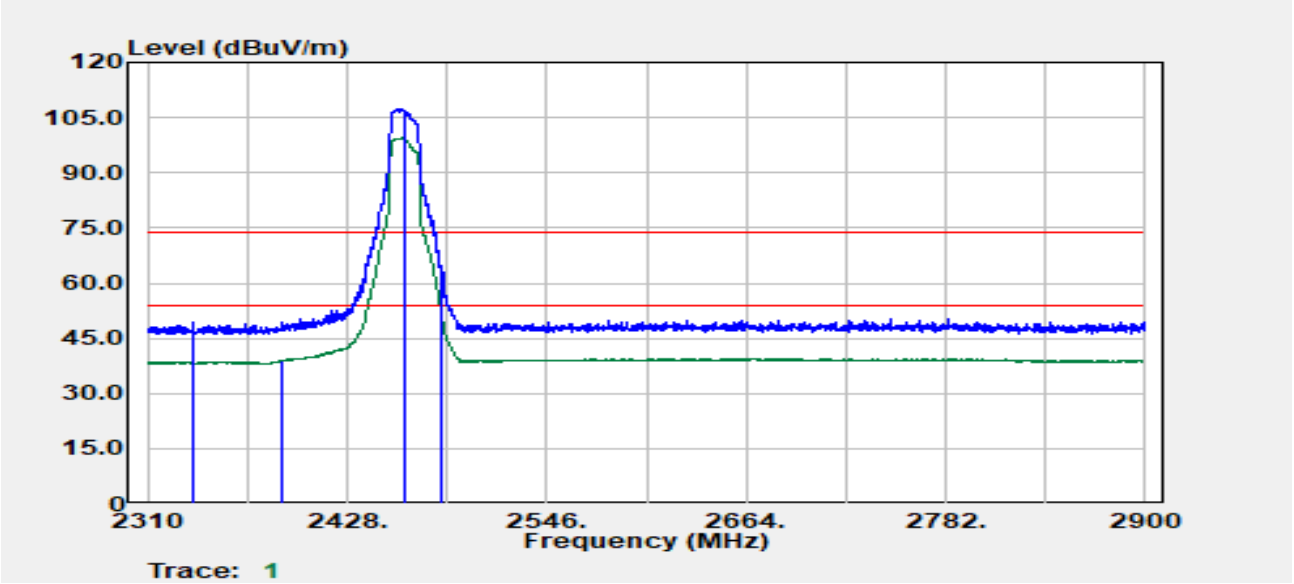
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0_20M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_1871 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2388.53	Peak	47.64	5.48	53.12	74.00	-20.88
2389.28	Average	33.65	5.49	39.14	54.00	-14.86
2462.00	Peak	101.54	5.54	107.08	- -	- -
2462.00	Average	93.38	5.54	98.92	- -	- -
2483.57	Peak	58.63	5.94	64.58	74.00	-9.42
2483.57	Average	46.08	5.94	52.02	54.00	-1.98

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

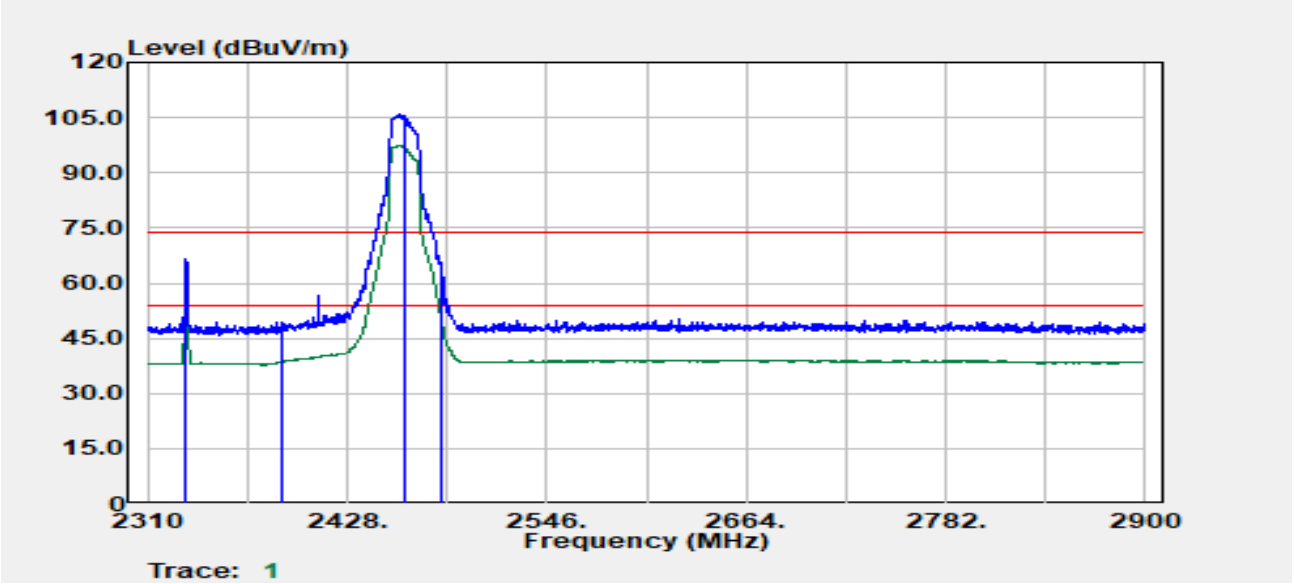
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0_20M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_1871 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2336.97	Peak	44.06	5.36	49.43	74.00	-24.57
2389.40	Average	33.52	5.50	39.01	54.00	-14.99
2462.00	Peak	101.94	5.54	107.48	- -	- -
2462.00	Average	93.94	5.54	99.48	- -	- -
2483.53	Average	46.36	5.94	52.30	54.00	-1.70
2484.03	Peak	58.59	5.95	64.54	74.00	-9.46

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

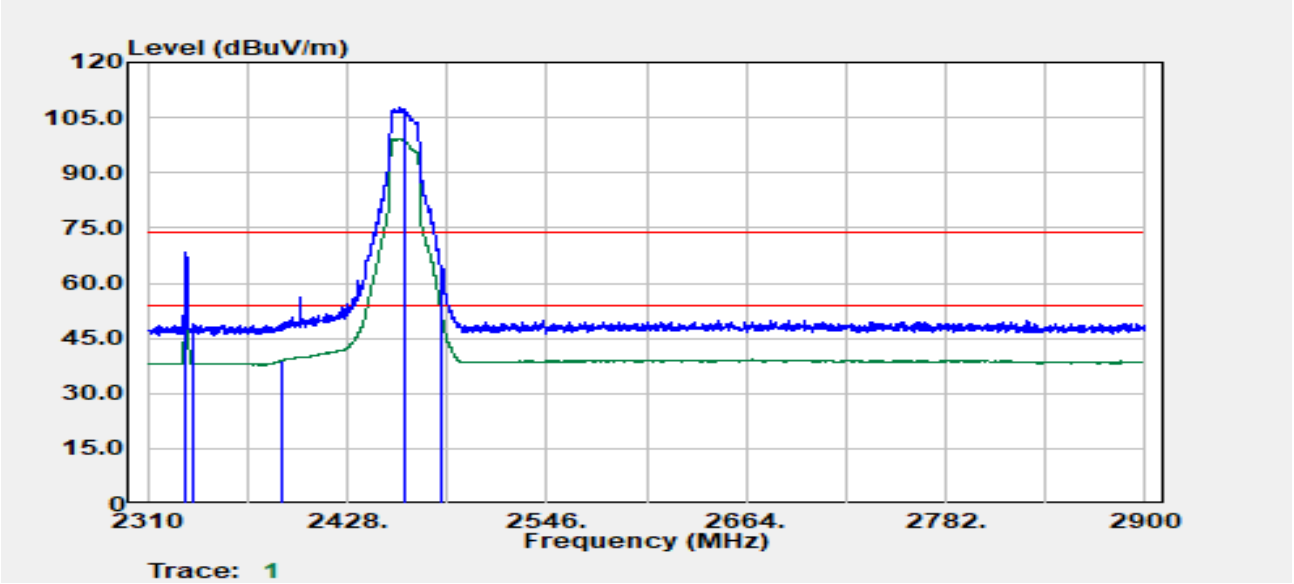
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0_10M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_777.6 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
2332.80	Peak	61.20	5.39	66.60	82.20	-15.60
2389.90	Peak	43.85	5.51	49.36	74.00	-24.64
2389.90	Average	33.25	5.51	38.75	54.00	-15.25
2462.00	Peak	100.29	5.54	105.83	--	--
2462.00	Average	91.80	5.54	97.34	--	--
2483.53	Peak	56.84	5.94	62.79	74.00	-11.21
2483.53	Average	44.47	5.94	50.41	54.00	-3.59

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

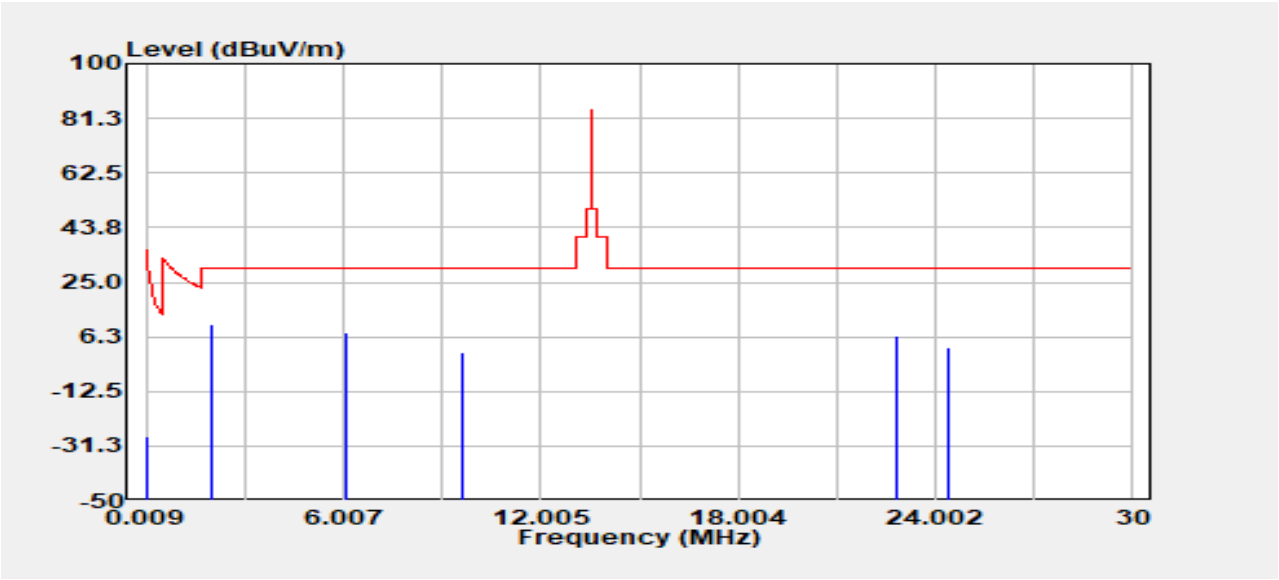
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0_10M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_777.6 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2332.80	Peak	62.88	5.39	68.27	82.20	-13.93
2336.72	Peak	43.68	5.37	49.05	74.00	-24.95
2389.90	Average	33.41	5.51	38.92	54.00	-15.08
2462.00	Peak	102.11	5.54	107.65	--	--
2462.00	Average	93.54	5.54	99.08	--	--
2483.53	Peak	58.26	5.94	64.20	74.00	-9.80
2483.53	Average	46.50	5.94	52.44	54.00	-1.56

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

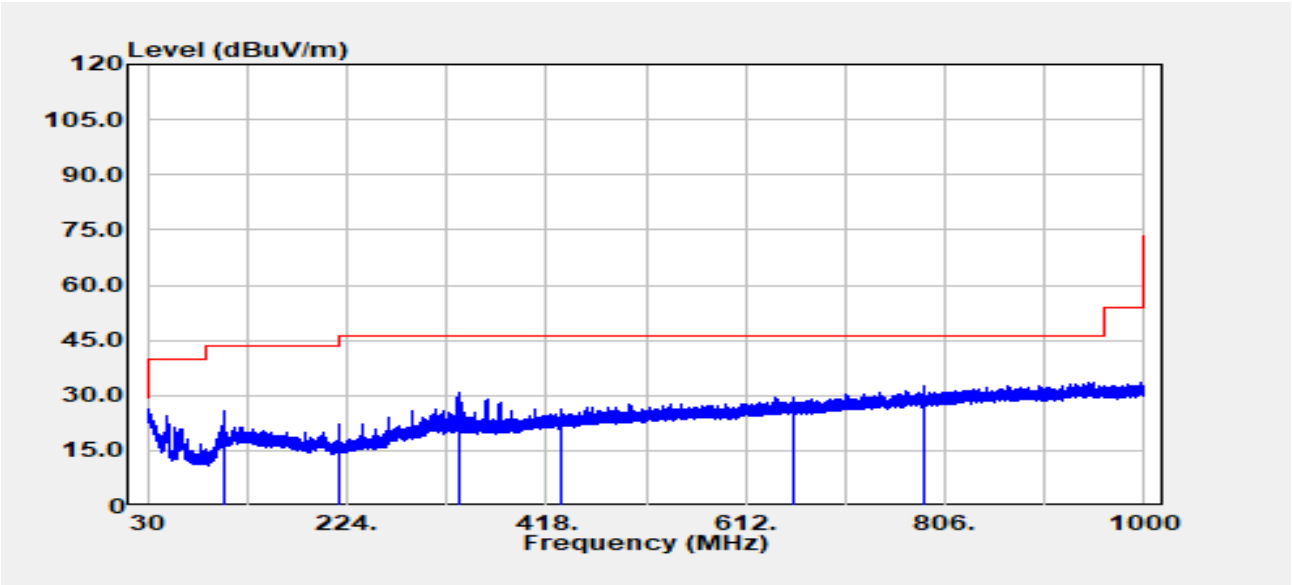
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0 20M	Temp./Humi.	:24.4/59
Frequency	:13.56 MHz_2462 MHz_1871 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level @3m	Factor @3m	Actual FS @3m	Factor @30m&300m	Actual FS @30m&300m	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dB	dBµV/m	dBµV/m	dB
0.07	Peak	38.17	13.87	52.04	-80.00	-27.96	30.35	-58.31
2.04	Peak	35.82	14.87	50.68	-40.00	10.68	29.54	-18.86
6.12	Peak	30.89	16.66	47.55	-40.00	7.55	29.54	-21.99
9.60	Peak	24.25	16.54	40.79	-40.00	0.79	29.54	-28.75
22.80	Peak	30.08	16.27	46.35	-40.00	6.35	29.54	-23.19
24.43	Peak	25.80	16.82	42.62	-40.00	2.62	29.54	-26.92

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

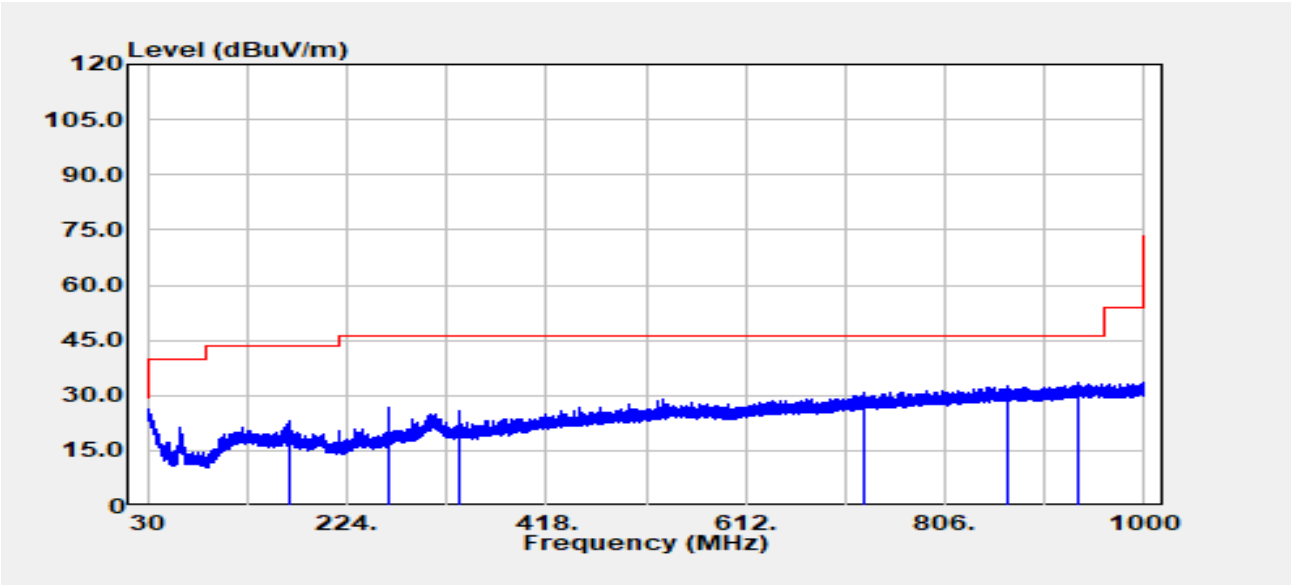
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0 20M	Temp./Humi.	:24.4/59
Frequency	:13.56 MHz_2462 MHz_1871 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
104.91	Peak	37.13	-11.32	25.81	43.50	-17.69
216.02	Peak	34.15	-11.94	22.21	46.00	-23.79
332.51	Peak	38.85	-7.90	30.94	46.00	-15.06
432.90	Peak	31.38	-4.91	26.47	46.00	-19.53
657.63	Peak	30.36	-0.79	29.58	46.00	-16.42
786.51	Peak	31.12	1.30	32.42	46.00	-13.58

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

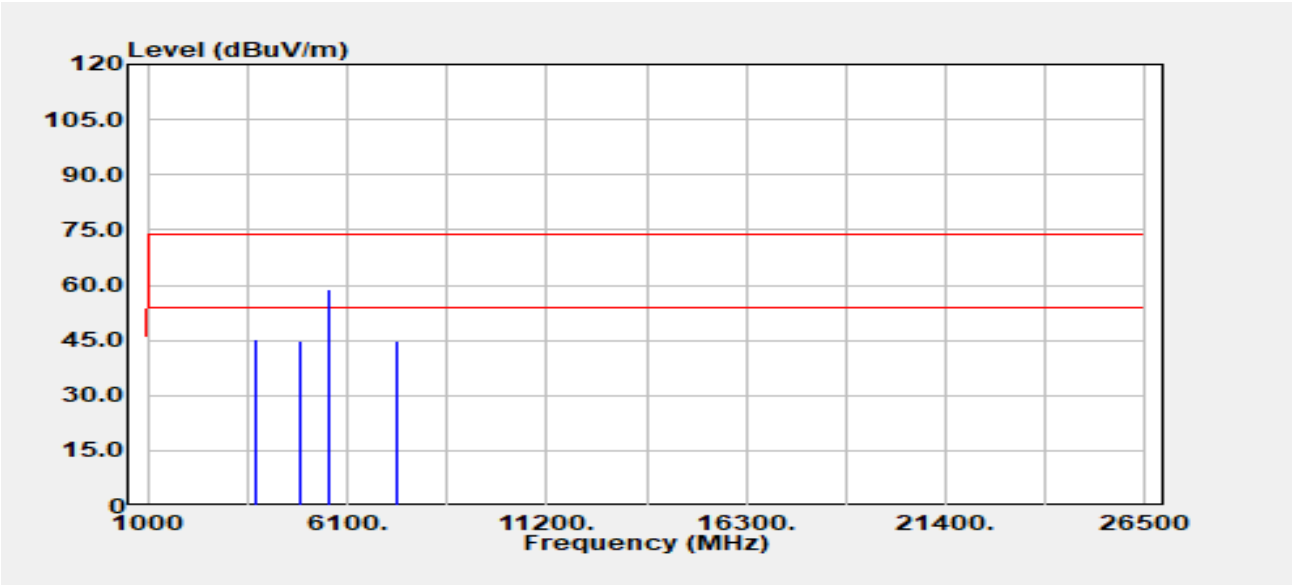
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0 20M	Temp./Humi.	:24.4/59
Frequency	:13.56 MHz_2462 MHz_1871 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
168.00	Peak	33.95	-10.99	22.96	43.50	-20.54
263.99	Peak	36.28	-9.69	26.59	46.00	-19.41
333.17	Peak	33.69	-7.90	25.79	46.00	-20.21
727.25	Peak	30.62	0.24	30.87	46.00	-15.13
866.89	Peak	30.04	2.37	32.41	46.00	-13.59
936.69	Peak	29.73	3.57	33.31	46.00	-12.69

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

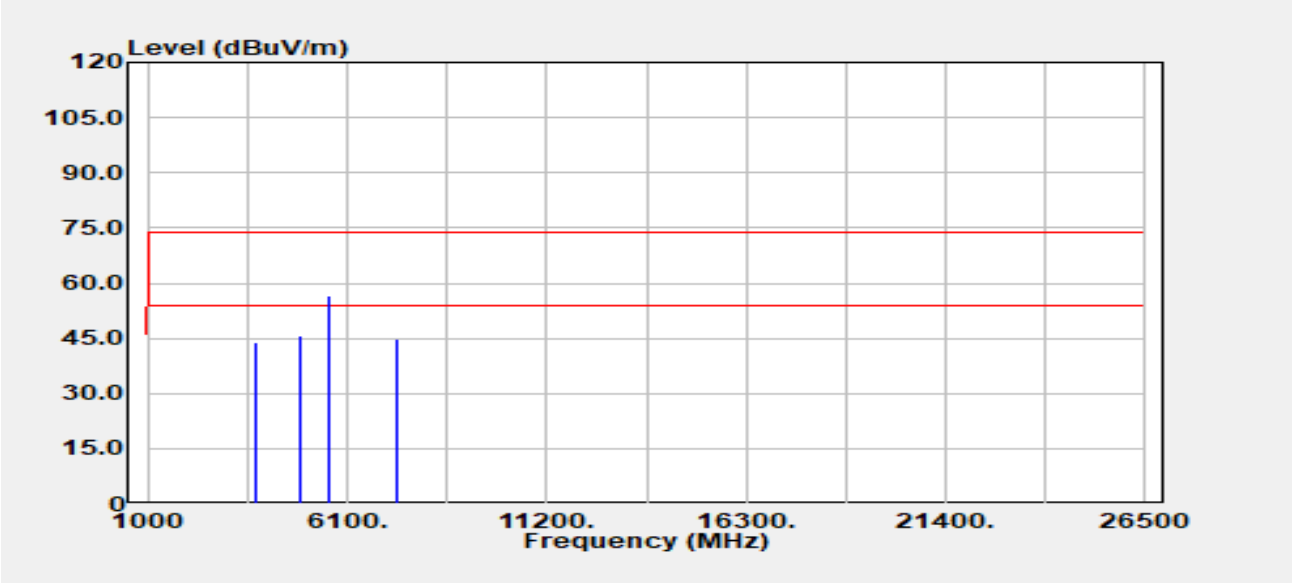
Project No	:TM-2311000354P	Test Date	:2024-04-09
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0_20M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_1871 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
3742.00	Peak	44.98	0.23	45.20	82.20	-37.00
4924.00	Peak	42.10	2.93	45.03	74.00	-28.97
4924.00	Average	33.70	2.93	36.63	54.00	-17.37
5613.00	Peak	53.74	4.91	58.65	82.20	-23.55
7386.00	Peak	35.76	9.01	44.77	74.00	-29.23
7386.00	Average	26.50	9.01	35.51	54.00	-18.49

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

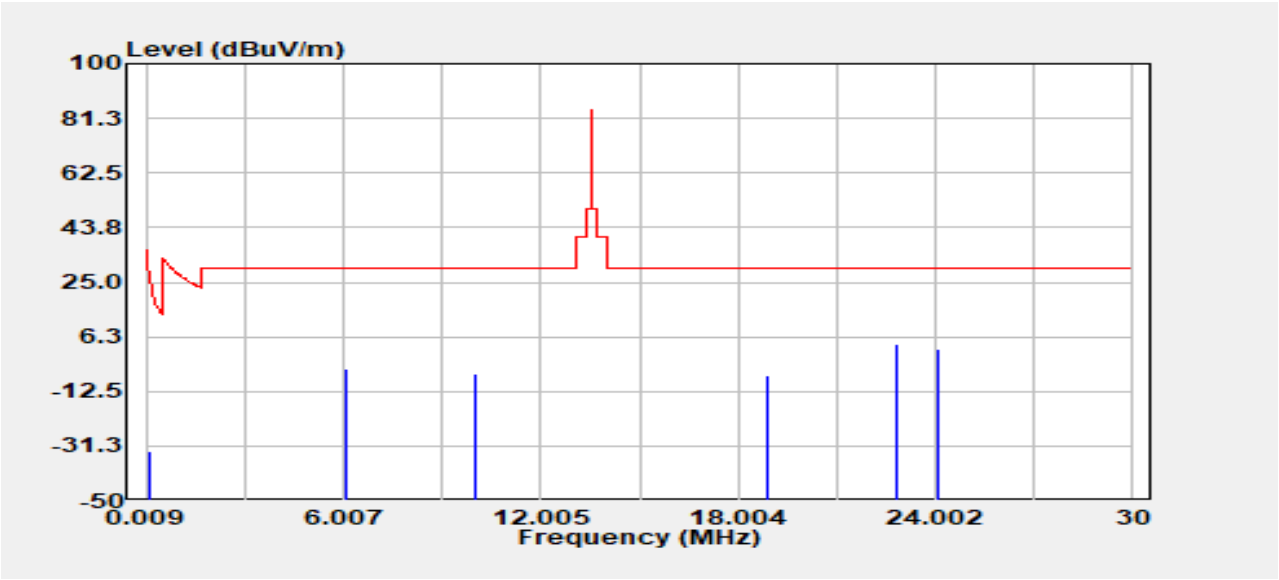
Project No	:TM-2311000354P	Test Date	:2024-04-09
Operation Band	:NFC_802.11g_LTE Band2 QPSK1,0_20M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_1871 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
3742.00	Peak	43.77	0.23	44.00	82.20	-38.20
4924.00	Peak	42.96	2.93	45.89	74.00	-28.11
4924.00	Average	32.96	2.93	35.89	54.00	-18.11
5613.00	Peak	51.64	4.91	56.55	82.20	-25.65
7386.00	Peak	35.80	9.01	44.81	74.00	-29.19
7386.00	Average	26.40	9.01	35.41	54.00	-18.59

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

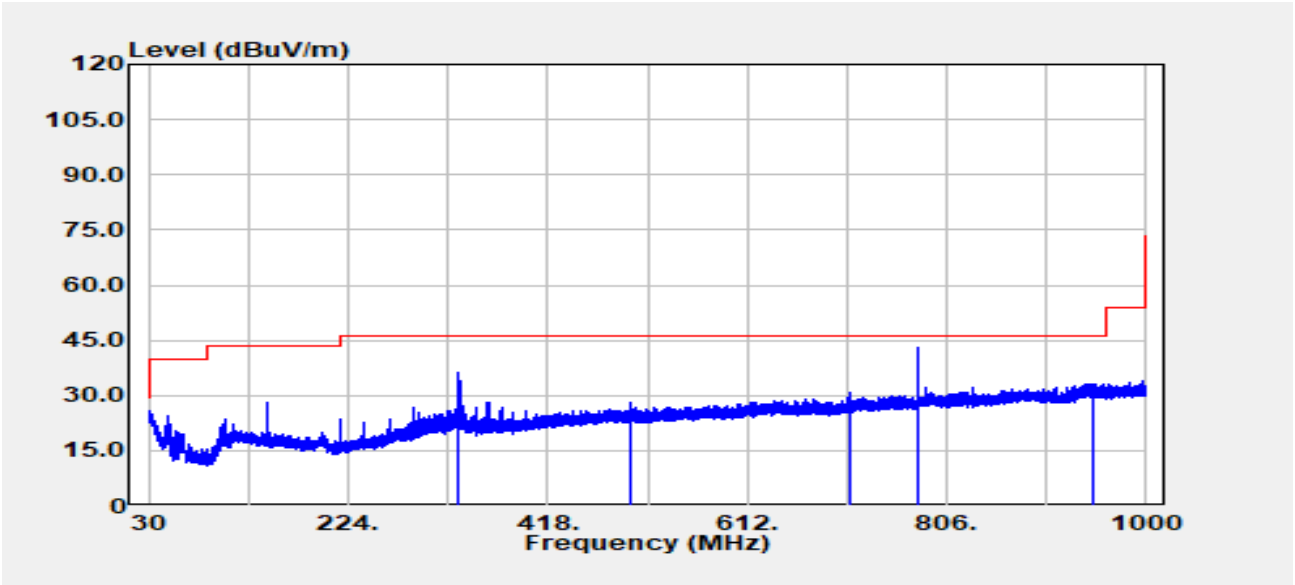
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0 10M	Temp./Humi.	:24.4/59
Frequency	:13.56 MHz_2462 MHz_777.6 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level @3m	Factor @3m	Actual FS @3m	Factor @30m&300m	Actual FS @30m&300m	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dB	dBµV/m	dBµV/m	dB
0.12	Peak	33.20	13.76	46.96	-80.00	-33.04	25.78	-58.82
6.05	Peak	18.58	16.69	35.27	-40.00	-4.73	29.54	-34.27
9.98	Peak	17.09	16.77	33.86	-40.00	-6.14	29.54	-35.68
18.93	Peak	15.18	17.62	32.80	-40.00	-7.20	29.54	-36.74
22.80	Peak	27.51	16.27	43.78	-40.00	3.78	29.54	-25.76
24.11	Peak	25.55	16.50	42.05	-40.00	2.05	29.54	-27.49

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

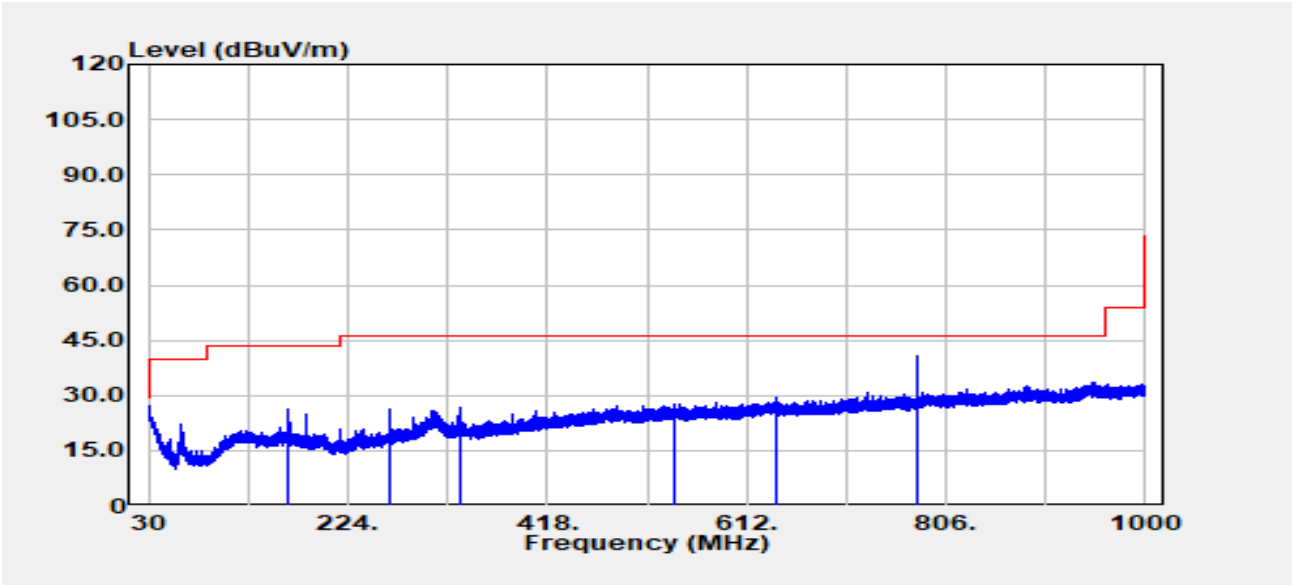
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0 10M	Temp./Humi.	:24.4/59
Frequency	:13.56 MHz_2462 MHz_777.6 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
331.93	Peak	43.99	-7.91	36.08	46.00	-9.92
331.93	Peak	43.99	-7.91	36.08	46.00	-9.92
498.33	Peak	31.46	-3.59	27.86	46.00	-18.14
712.84	Peak	30.62	0.11	30.72	46.00	-15.28
777.56	Peak	41.73	1.12	42.85	46.00	-3.15
947.62	Peak	29.47	3.68	33.15	46.00	-12.85

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

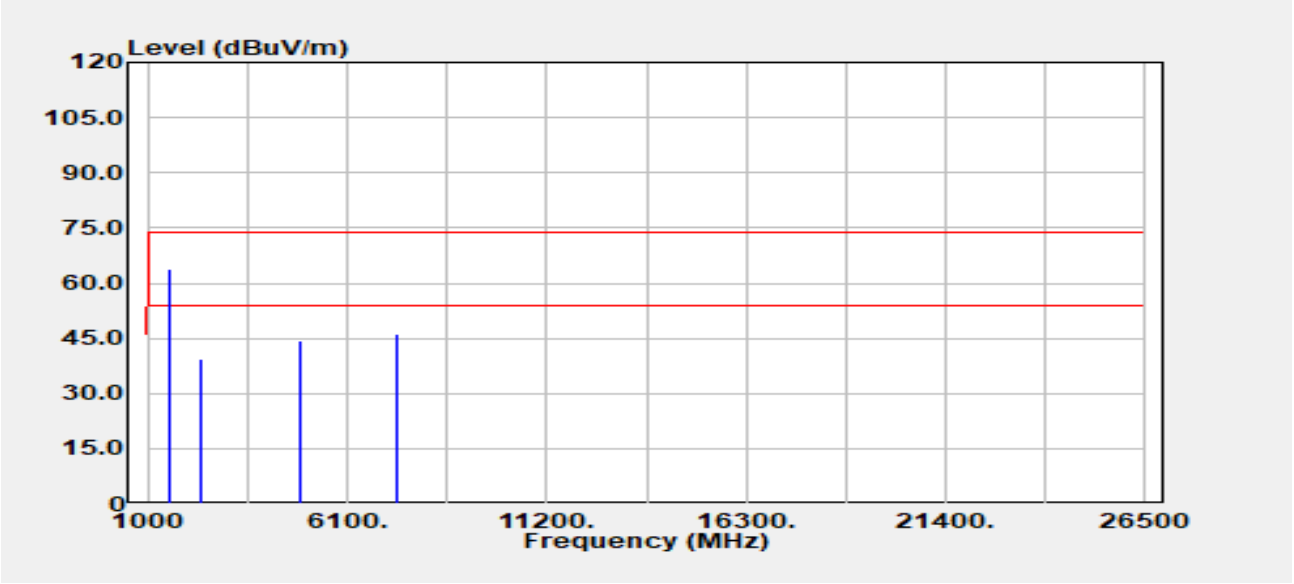
Project No	:TM-2311000354P	Test Date	:2024-04-10
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0 10M	Temp./Humi.	:24.4/59
Frequency	:13.56 MHz_2462 MHz_777.6 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
166.29	Peak	37.00	-10.92	26.08	43.50	-17.42
263.99	Peak	36.07	-9.69	26.38	46.00	-19.62
332.68	Peak	34.64	-7.90	26.73	46.00	-19.27
541.10	Peak	30.61	-3.01	27.60	46.00	-18.40
640.48	Peak	30.14	-0.91	29.23	46.00	-16.77
777.56	Peak	39.46	1.12	40.58	46.00	-5.42

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

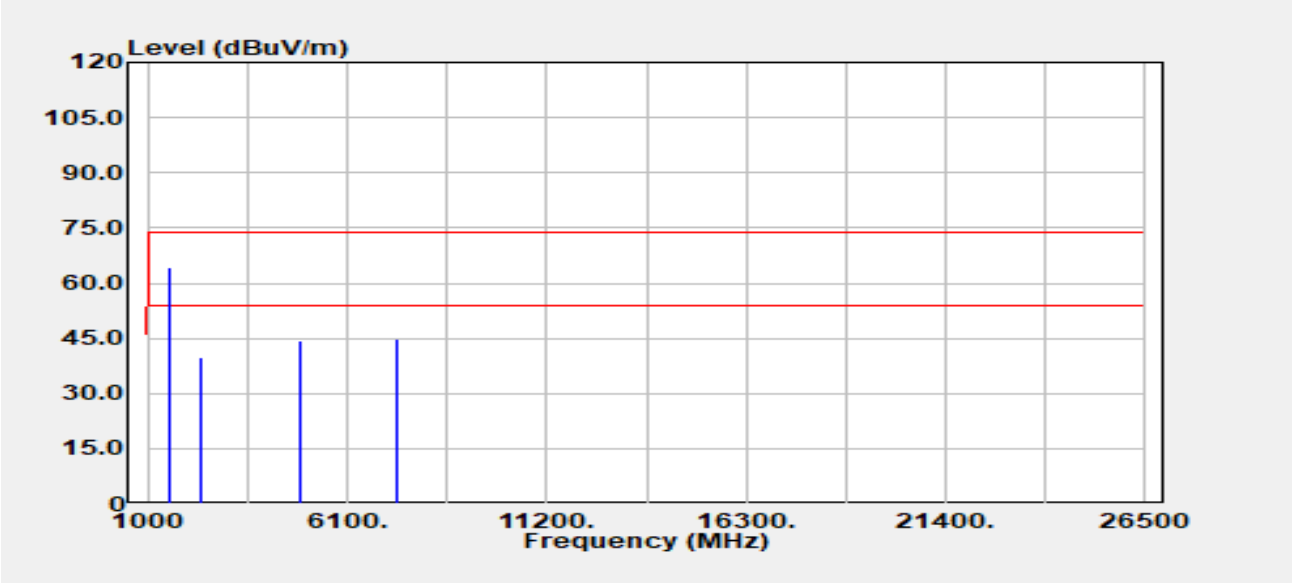
Project No	:TM-2311000354P	Test Date	:2024-04-09
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0_10M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_777.6 MHz	Antenna Pol.	:Vertical
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
1555.20	Peak	71.18	-7.24	63.94	82.20	-18.26
2332.80	Peak	42.85	-3.61	39.24	82.20	-42.96
4924.00	Peak	41.42	2.93	44.35	74.00	-29.65
4924.00	Average	29.97	2.93	32.90	54.00	-21.10
7386.00	Peak	37.08	9.01	46.09	74.00	-27.91
7386.00	Average	26.42	9.01	35.43	54.00	-18.57

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Project No	:TM-2311000354P	Test Date	:2024-04-09
Operation Band	:NFC_802.11g_LTE Band13 QPSK1,0_10M	Temp./Humi.	:24.3/60
Frequency	:2462 MHz_777.6 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
1555.20	Peak	71.54	-7.24	64.30	82.20	-17.90
2332.80	Peak	43.28	-3.61	39.68	82.20	-42.52
4924.00	Peak	41.45	2.93	44.37	74.00	-29.63
4924.00	Average	32.51	2.93	35.44	54.00	-18.56
7386.00	Peak	35.99	9.01	45.00	74.00	-29.00
7386.00	Average	26.53	9.01	35.54	54.00	-18.46

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

- End of Test Report -