

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

CLASS II PC REPORT

OF

Applicant: Murata Electronics North America
2200 Lake Park Dr #7604, Smyrna, GA 30080 USA

Product Name: Type 1SE

Brand Name: Murata

Model No.: LBAD0ZZ1SE

Model Difference: N/A

Report Number: E2/2020/B0031

FCC ID HSW-TY1SCDM

FCC Rule Part: 2, 22H & 24E & 27C & 90S

Issue Date: December 23, 2020

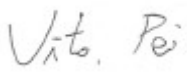
Date of Test: November 19, 2020 - December 16, 2020

Date of EUT Received: November 13, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:
Vito Pei / Sr. Engineer

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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/B0031	Rev.00	Original.	December 23, 2020	Revised By: Susan Lin

Note:**1、Disclaimer**

Antenna information is provided by the applicant, the test results of this report are applicable to the sample EUT received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Type 1SE
Brand Name:	Murata
Model No.:	LBAD0ZZ1SE
Model Difference:	N/A
Hardware Version:	ES2
Software Version:	RK_02_01_02_00_82
Class II Permissive change:	New antenna trace design need compliance C2PC rule
Power Supply:	3.6Vdc from DC power supply
IMEI:	351521100024390

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1.2 Frequency Range

1.2.1 NB IoT

NB IoT Band	Subcarrier Spacing (kHz)	Operation Frequency (MHz)
2	3.75	1850.2 - 1909.8
	15	
4	3.75	1710.2 - 1754.8
	15	
5	3.75	824.2 - 848.8
	15	
12	3.75	699.2 - 715.8
	15	
13	3.75	777.2 - 786.8
	15	

NB IoT Band	Subcarrier Spacing (kHz)	Operation Frequency (MHz)
25	3.75	1850.2 - 1914.8
	15	
17	3.75	704.2 - 715.8
	15	
26	3.75	824.2 - 848.8
	15	
26 Part 90	3.75	814.2 - 823.8
	15	

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1.2.2 Cat. M1

M1 Band	BW (MHz)	Operation Frequency (MHz)	
2	1.4	1850.7	- 1909.3
	3	1851.5	- 1908.5
	5	1852.5	- 1907.5
	10	1855	- 1905
	15	1857.5	- 1902.5
	20	1860	- 1900
4	1.4	1710.7	- 1754.3
	3	1711.5	- 1753.5
	5	1712.5	- 1752.5
	10	1715	- 1750
	15	1717.5	- 1747.5
	20	1720	- 1745
5	1.4	824.7	- 848.3
	3	825.5	- 847.5
	5	826.5	- 846.5
	10	829	- 844
12	1.4	699.7	- 715.3
	3	700.5	- 714.5
	5	701.5	- 713.5
	10	704	- 711
13	5	779.5	- 784.5
	10	782	
14	5	790.5	
	10	793	

M1 Band	BW (MHz)	Operation Frequency (MHz)	
25	1.4	1850.7	- 1914.3
	3	1851.5	- 1913.5
	5	1852.5	- 1912.5
	10	1855	- 1910
	15	1857.5	- 1907.5
	20	1860	- 1905
26	1.4	824.7	- 848.3
	3	825.5	- 847.5
	5	826.5	- 846.5
	10	829	- 844
	15	831.5	- 841.5
26 Part90	1.4	814.7	- 823.3
	3	815.5	- 822.5
	5	816.5	- 821.5
	10	819	
17	5	706.5	- 713.5
	10	709.0	- 711.0

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1.3 Antenna Designation

NB IoT Bands	Allowable Gain (dBi)
2	10.25
4	7.08
5	15.99
12	11.28
13	11.34
17	11.22
25	12.15
26	15.05
26 Part 90	26.63

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

TS 151 010-1 is used to set, and measure the output power.

1.5 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Radiated Emissions (ERP/EIRP)

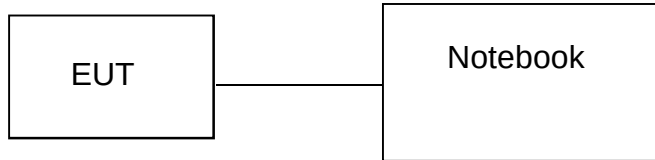
The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

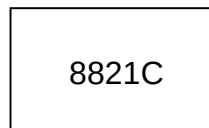


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model / Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8821C	6261786084	shielded	Un-shielded
2.	Notebook	Lenovo	L440	P0000367	N/A	N/A

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3 SUMMARY OF TEST RESULTS

NB IoT

FCC Rules	Description Of Test	Result
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(c)(f) 1559-1610 MHz §90.691	Field Strength of Spurious Radiation	Compliant

Cat M1

FCC Rules	Description Of Test	Result
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(c)(f) 1559-1610 MHz §90.543(e)(3) §90.543 (f) §90.691	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Configuration

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

The EUT Serial Number is K191700015.

4.2 NB IoT

NB IoT Modes	Radiated Emission		
	E1	E2	H
B2	-	V	-
B4	-	V	-
B5	-	V	-
B12	-	V	-
B13	-	V	-
B14	-	V	-
B17	-	V	-
B25	-	V	-
B26	-	V	-
B26 Part 90	-	V	-

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4.3 Cat M1

M1 Band 2

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	18607 to 19193	18607	10MHz	QPSK, 16QAM	6 RB, 0 RB Offset

M1 Band 4

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	19957 to 19393	19957	10MHz	QPSK, 16QAM	6 RB, 0 RB Offset

M1 Band 5

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	20407 to 20643	20407	10MHz	QPSK, 16QAM	6 RB, 0 RB Offset

M1 Band 12

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	23017 to 23173	23017	5MHz	QPSK, 16QAM	6 RB, 0 RB Offset

M1 Band 13

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	23205 to 23255	23205	10MHz	QPSK, 16QAM	6RB/ 0 RB Offset

M1 Band 14

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	23305 to 23355	23305	10MHz	QPSK, 16QAM	6 RB/ 0 RB Offset

M1 Band 17

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	23755 to 23825	23755	10MHz	QPSK, 16QAM	6 RB/ 0 RB Offset

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M1 Band 25

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	26047 to 26683	26047	5MHz	QPSK, 16QAM	6 RB, 0 RB Offset

M1 Band 26

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	26797 to 27033	26797	5MHz	QPSK, 16QAM	6 RB, 0 RB Offset

M1 Band 26 for 90S

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
RADIATED EMISSION	26697 to 26783	26693	5MHz	QPSK, 16QAM	6 RB, 0 RB Offset

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

6.1 Standard Applicable

According to FCC §2.1053,
FCC §22.917(a), §24.238(a), §27.53(h) , §90.543(e)(3)

FCC §27.53(c) for B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53 (f) for B13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §90.543 (f) for LTE B14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g) for B12, 13

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

§90.691 Emission mask requirements for EA-based systems for B26

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

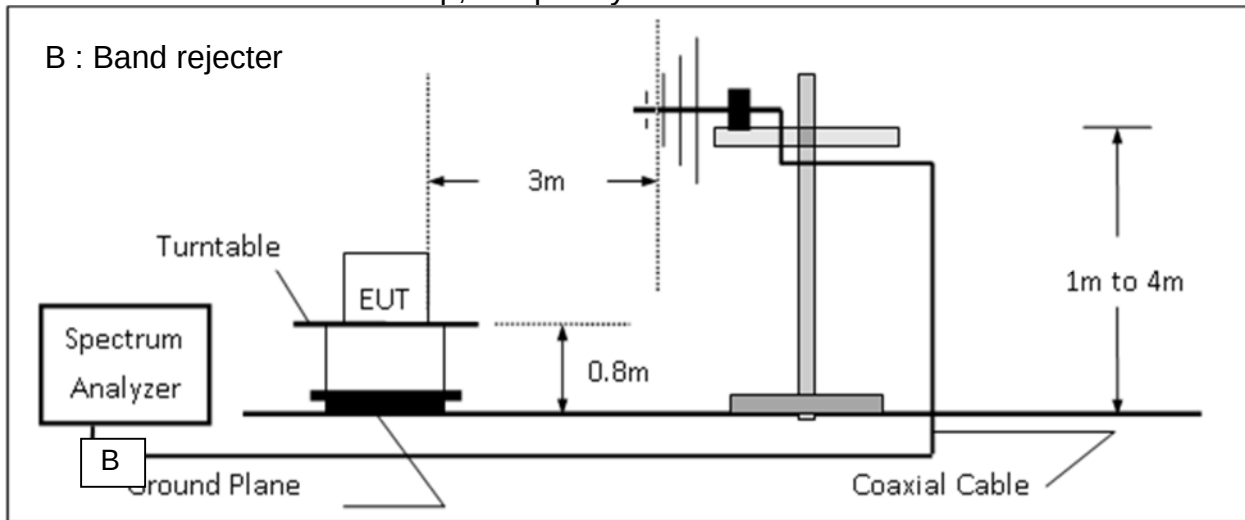
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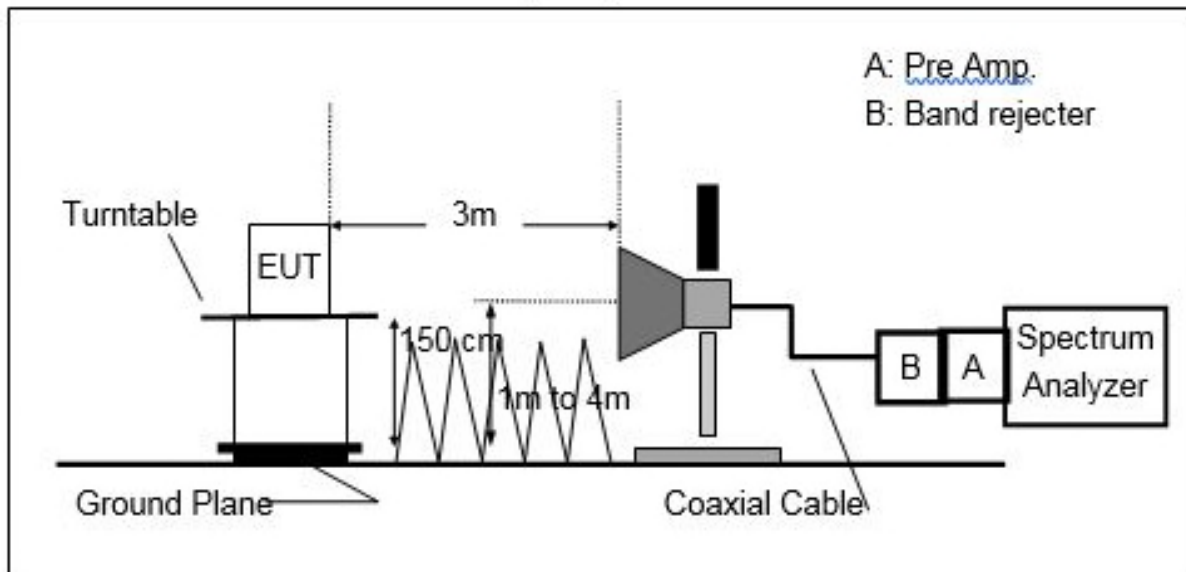
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6.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-Up Frequency Over 1 GHz



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6.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

6.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber

EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
Loop Antenna	ETS.LIND-GREN	6502	143303	04/28/2020	04/27/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
High Pass Filter	WI	WHKX1.1/15G	RF172	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0037	RF177	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Notch Filter	EWT	EWT-54-0038	RF185	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9100	150704	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

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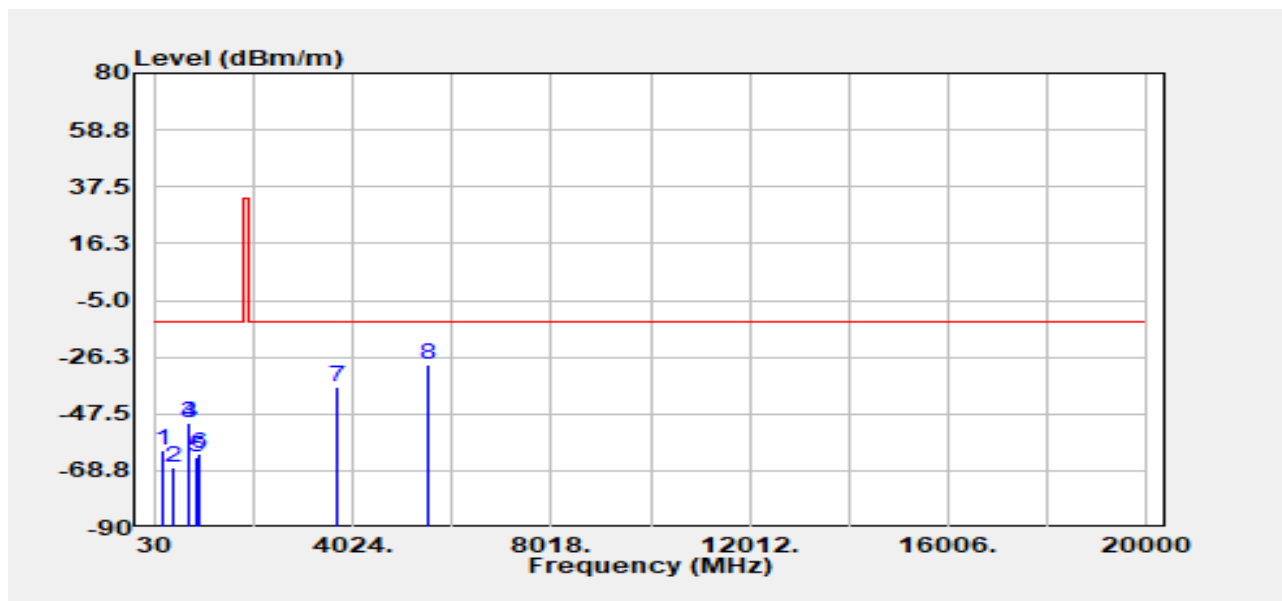
6.5 Measurement Result:

6.5.1 Radiated Spurious Emission

NB IOT Band 2

Report Number :E2/2020/B0031
 Operation Mode :NB IoT B2 BPSK
 Test Mode :TX CH Low
 EUT Pol :E2 Plan
 Test Frequency :1850.1 MHz

Test Site :966 Chamber C
 Test Date :2020-12-16
 Temp./Humi. :21.4/67
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
197.810	-61.21	-59.19	-1.22	-0.80	-13.00	-48.20
423.820	-67.62	-65.65	-0.75	-1.22	-13.00	-54.61
730.340	-50.65	-47.49	-1.17	-1.99	-13.00	-37.64
745.860	-50.64	-47.39	-1.51	-1.74	-13.00	-37.63
877.780	-63.43	-60.65	-1.12	-1.66	-13.00	-50.42
935.010	-62.63	-59.46	-1.42	-1.75	-13.00	-49.62
3700.200	-37.45	-41.79	12.31	-7.97	-13.00	-24.44
5550.300	-29.37	-33.80	12.86	-8.43	-13.00	-16.36

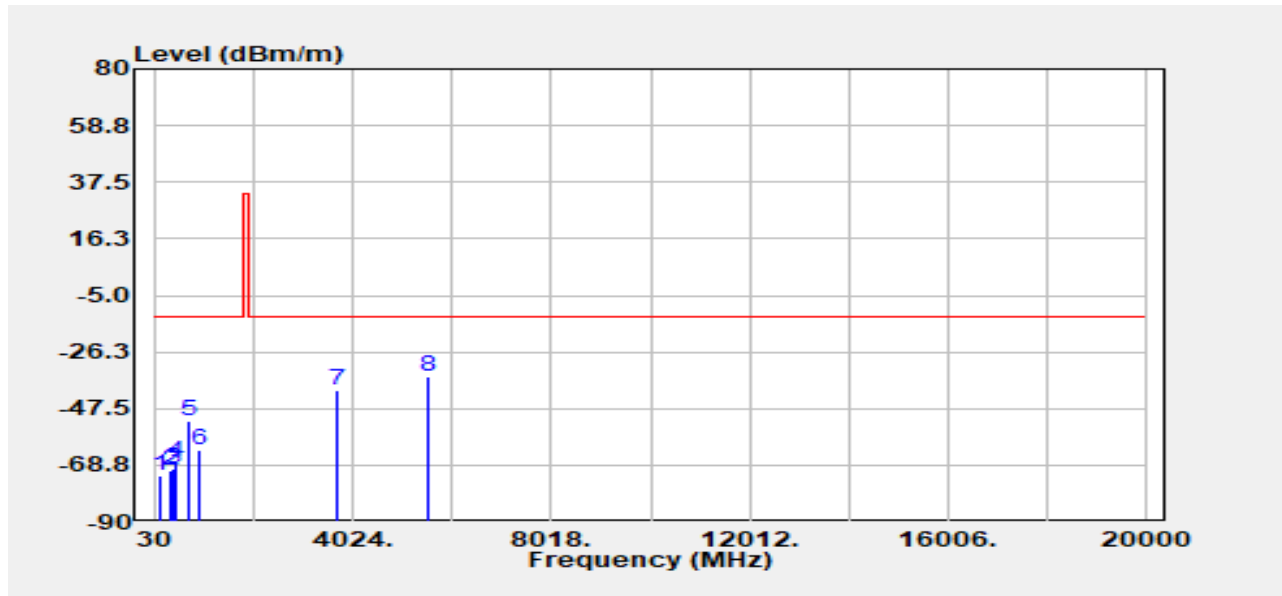
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B2 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :1850.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



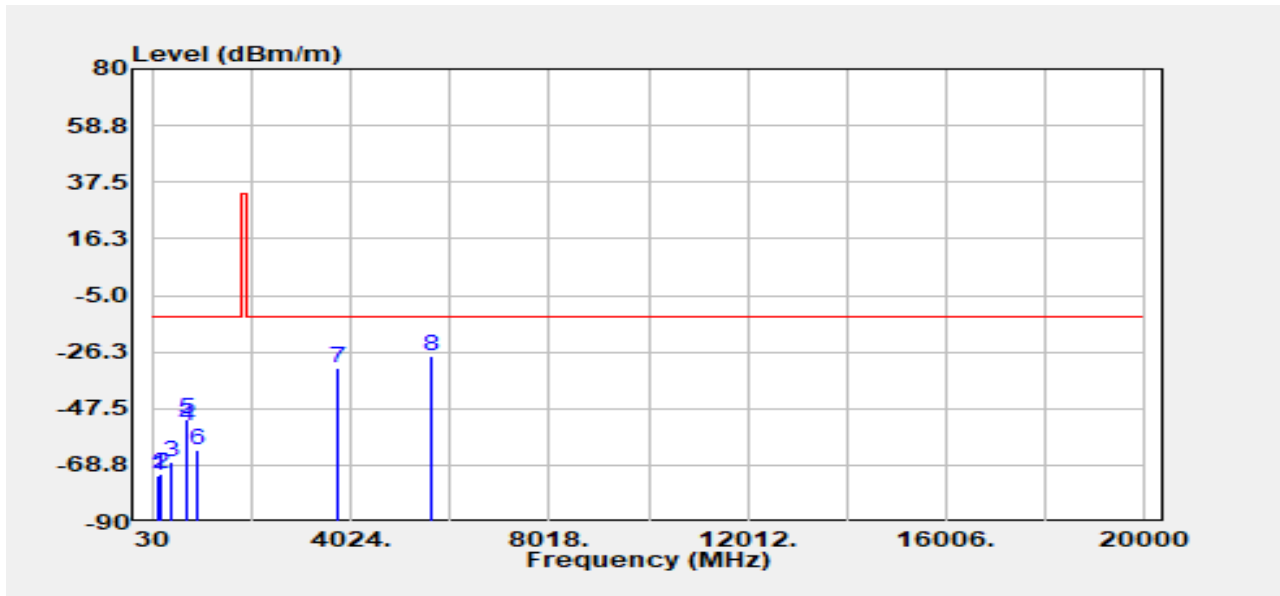
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
141.550	-72.40	-64.80	-6.98	-0.62	-13.00	-59.39
370.470	-71.02	-69.43	-0.58	-1.01	-13.00	-58.01
405.390	-70.41	-68.36	-0.68	-1.37	-13.00	-57.40
486.870	-67.38	-65.13	-0.70	-1.55	-13.00	-54.37
745.860	-52.36	-49.11	-1.51	-1.74	-13.00	-39.35
936.950	-63.08	-59.89	-1.44	-1.75	-13.00	-50.07
3700.200	-40.35	-44.69	12.31	-7.97	-13.00	-27.34
5550.300	-35.35	-39.78	12.86	-8.43	-13.00	-22.34

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B2 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1880 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu


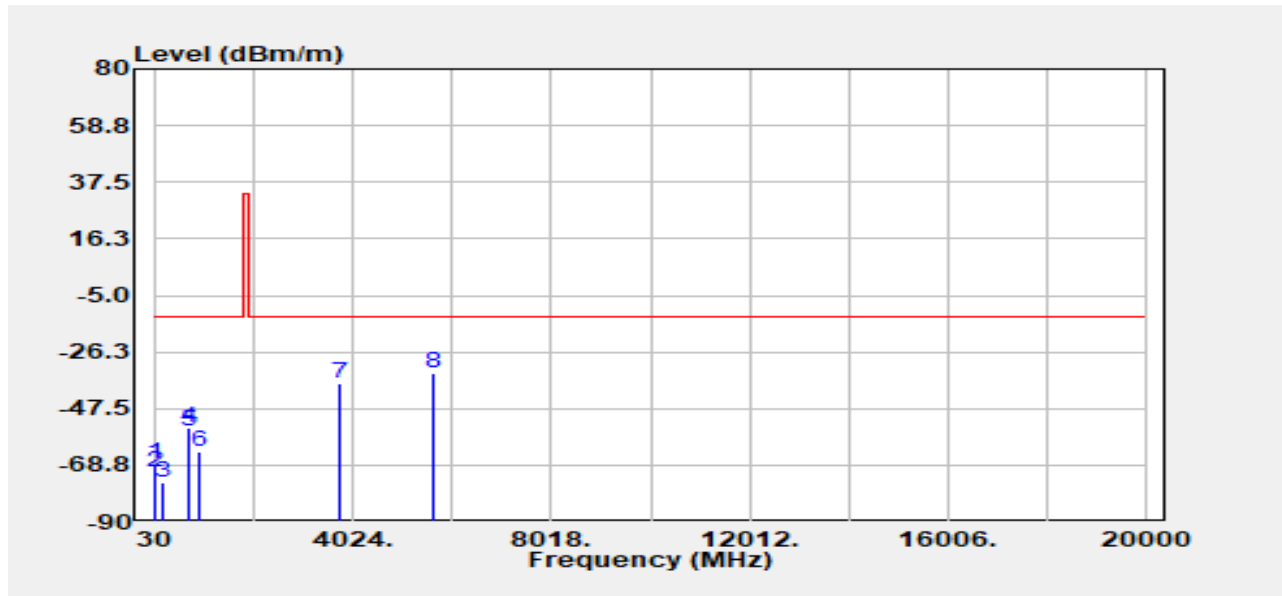
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
140.580	-72.56	-64.96	-6.99	-0.61	-13.00	-59.55
191.020	-72.22	-69.59	-1.82	-0.81	-13.00	-59.21
427.700	-67.26	-65.26	-0.82	-1.18	-13.00	-54.25
730.340	-54.15	-50.99	-1.17	-1.99	-13.00	-41.14
746.830	-51.77	-48.54	-1.51	-1.72	-13.00	-38.76
932.100	-62.91	-59.78	-1.39	-1.74	-13.00	-49.90
3760.000	-31.99	-36.54	12.40	-7.85	-13.00	-18.98
5640.000	-27.73	-31.83	13.00	-8.90	-13.00	-14.72

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B2 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1880 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


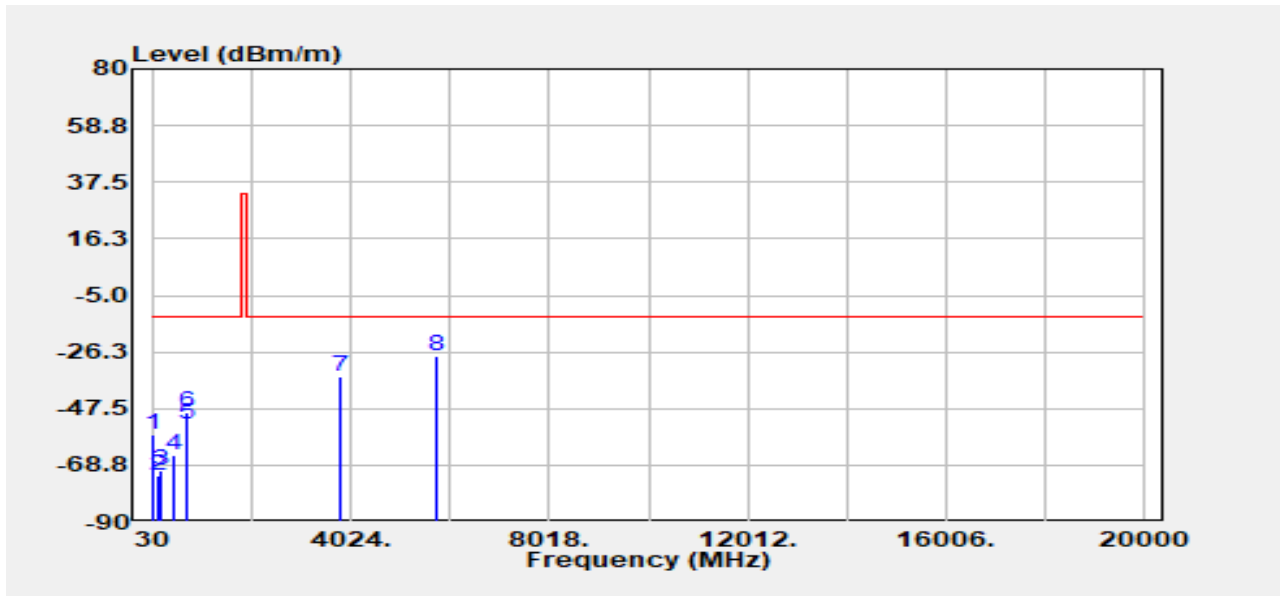
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.850	-68.37	-48.85	-19.27	-0.25	-13.00	-55.36
62.010	-71.41	-56.90	-14.09	-0.42	-13.00	-58.40
201.690	-75.20	-73.44	-0.95	-0.81	-13.00	-62.19
737.130	-54.76	-51.59	-1.27	-1.90	-13.00	-41.75
745.860	-55.98	-52.73	-1.51	-1.74	-13.00	-42.97
935.980	-63.49	-60.31	-1.43	-1.75	-13.00	-50.48
3760.000	-37.72	-42.27	12.40	-7.85	-13.00	-24.71
5640.000	-33.91	-38.01	13.00	-8.90	-13.00	-20.90

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B2 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :1909.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/68
Antenna Pol. :Vertical
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-57.17	-37.95	-18.97	-0.25	-13.00	-44.16
138.640	-72.79	-65.11	-7.07	-0.61	-13.00	-59.78
201.690	-70.89	-69.13	-0.95	-0.81	-13.00	-57.88
445.160	-65.12	-63.12	-0.97	-1.03	-13.00	-52.11
730.340	-53.44	-50.28	-1.17	-1.99	-13.00	-40.43
746.830	-48.75	-45.52	-1.51	-1.72	-13.00	-35.74
3819.800	-35.21	-38.66	12.36	-8.91	-13.00	-22.20
5729.700	-27.92	-31.58	12.80	-9.14	-13.00	-14.91

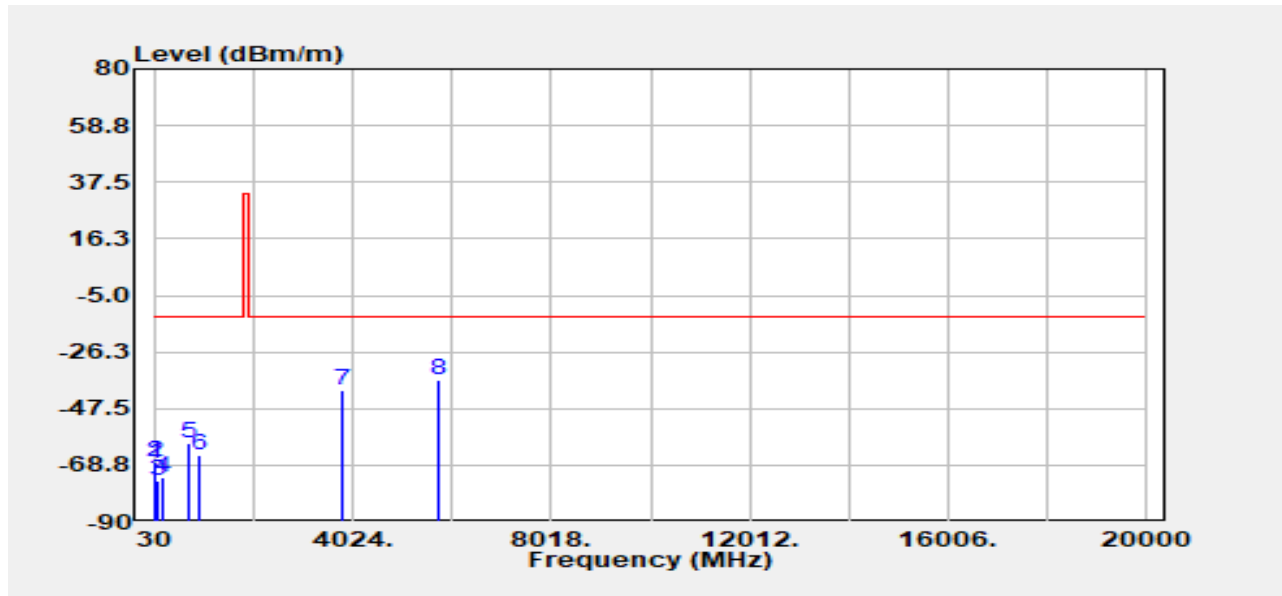
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B2 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :1909.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/68
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.850	-68.10	-48.58	-19.27	-0.25	-13.00	-55.09
52.310	-67.84	-51.10	-16.40	-0.34	-13.00	-54.83
88.200	-74.60	-68.21	-5.91	-0.48	-13.00	-61.59
191.990	-73.47	-70.99	-1.67	-0.81	-13.00	-60.46
730.340	-60.73	-57.57	-1.17	-1.99	-13.00	-47.72
936.950	-65.01	-61.82	-1.44	-1.75	-13.00	-52.00
3819.800	-40.69	-44.14	12.36	-8.91	-13.00	-27.68
5729.700	-36.55	-40.21	12.80	-9.14	-13.00	-23.54

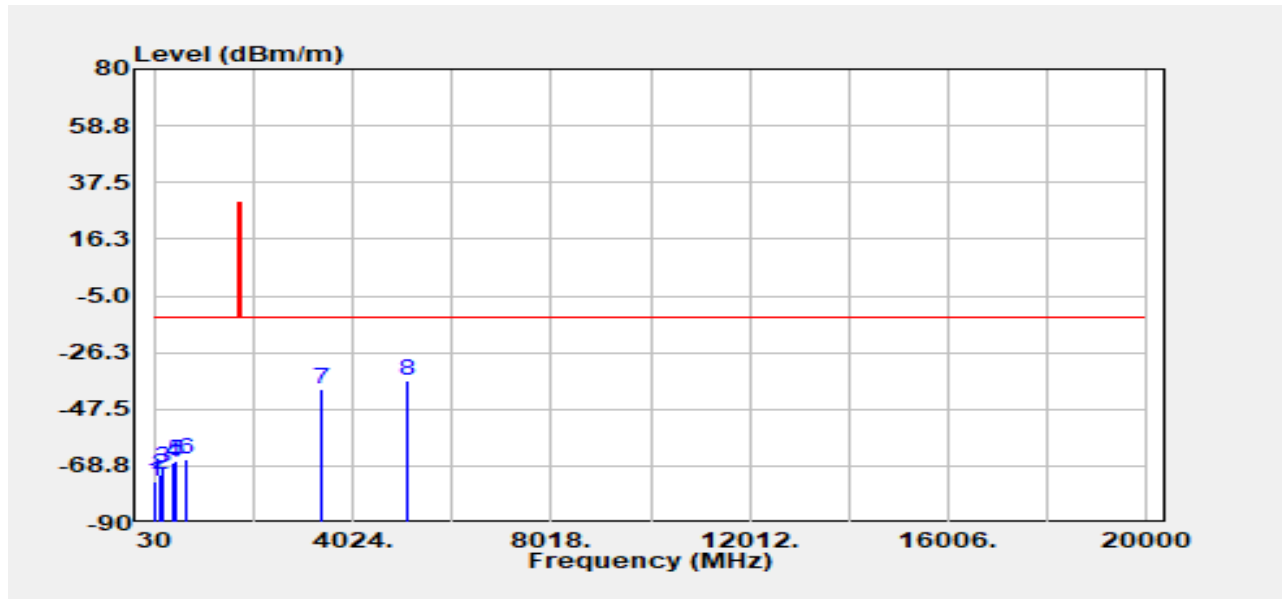
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NB IOT Band 4

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B4 BPSK	Test Date	:2020-12-14
Test Mode	:TX CH Low	Temp./Humi.	:21.1/66
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:1710.1 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
51.340	-74.85	-57.92	-16.60	-0.33	-13.00	-61.84
141.550	-72.14	-64.54	-6.98	-0.62	-13.00	-59.13
201.690	-69.37	-67.61	-0.95	-0.81	-13.00	-56.36
425.760	-67.30	-65.31	-0.79	-1.20	-13.00	-54.29
493.660	-66.64	-64.38	-0.72	-1.54	-13.00	-53.63
693.480	-66.14	-63.93	-0.99	-1.22	-13.00	-53.13
3420.200	-39.87	-44.65	12.57	-7.79	-13.00	-26.86
5130.300	-36.59	-39.79	12.10	-8.90	-13.00	-23.58

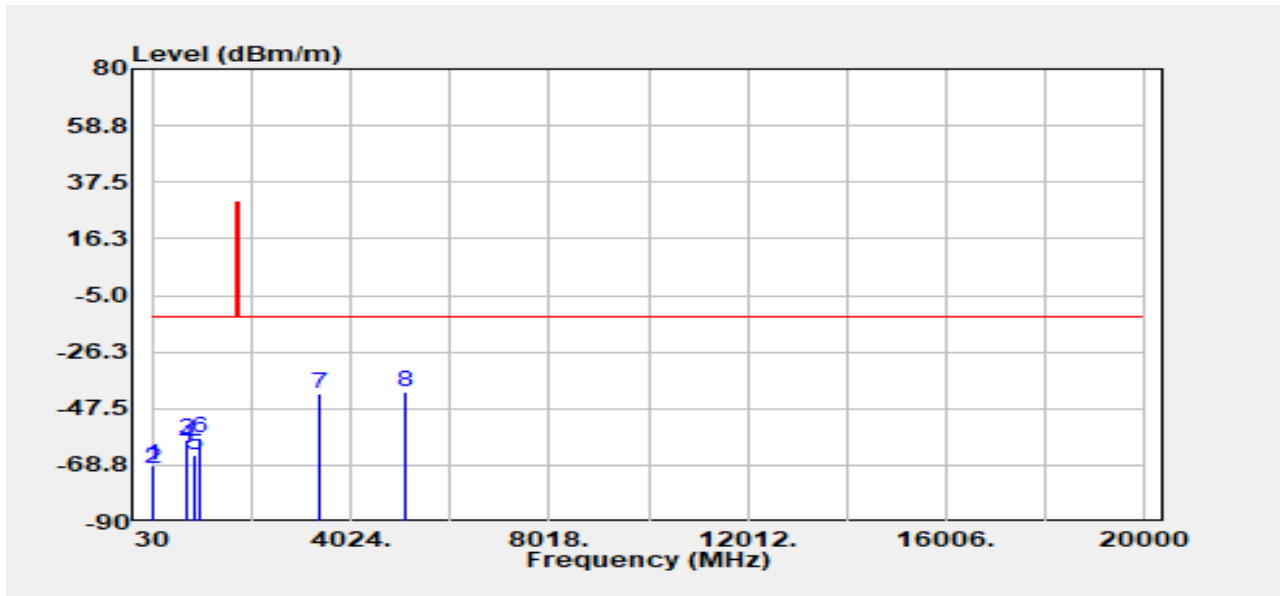
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B4 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :1710.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



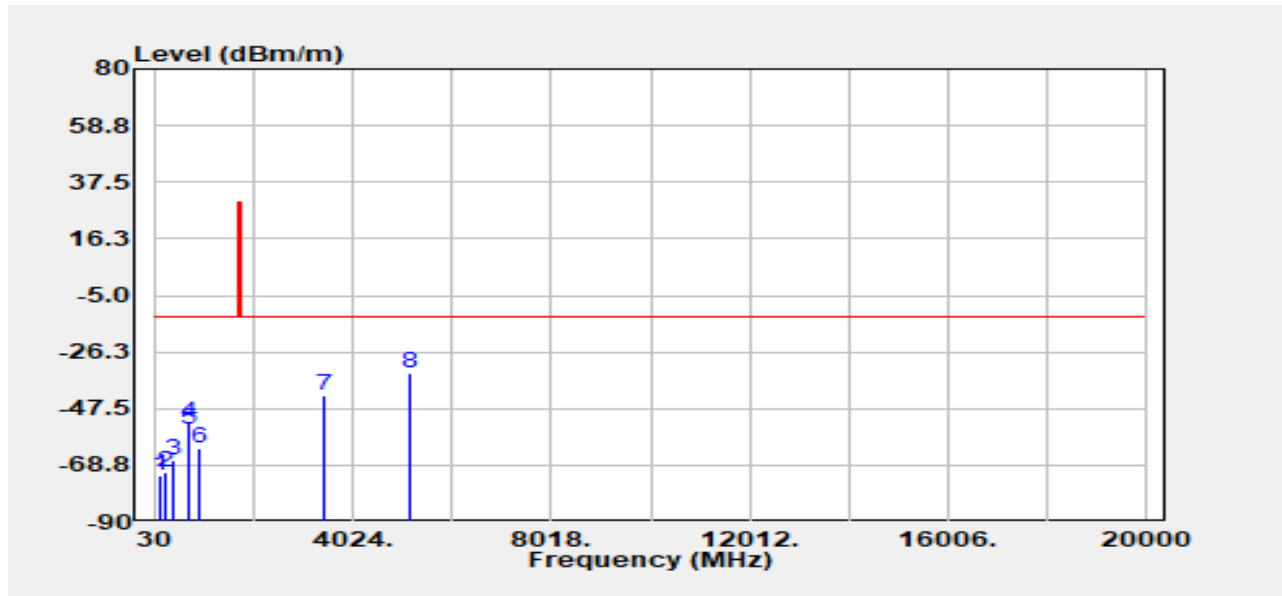
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-68.60	-49.38	-18.97	-0.25	-13.00	-55.59
44.550	-70.05	-51.78	-17.98	-0.29	-13.00	-57.04
734.220	-59.05	-55.92	-1.20	-1.93	-13.00	-46.04
746.830	-60.92	-57.69	-1.51	-1.72	-13.00	-47.91
880.690	-65.08	-62.36	-1.04	-1.68	-13.00	-52.07
1000.000	-58.83	-54.07	-1.04	-3.72	-13.00	-45.82
3420.200	-41.96	-46.52	12.56	-8.00	-13.00	-28.95
5130.300	-41.34	-44.54	12.10	-8.90	-13.00	-28.33

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B4 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1732.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
141.550	-72.65	-65.05	-6.98	-0.62	-13.00	-59.64
249.220	-71.51	-69.76	-0.79	-0.96	-13.00	-58.50
430.610	-67.20	-65.16	-0.88	-1.16	-13.00	-54.19
731.310	-52.67	-49.52	-1.18	-1.97	-13.00	-39.66
746.830	-55.38	-52.15	-1.51	-1.72	-13.00	-42.37
940.830	-62.11	-58.88	-1.47	-1.76	-13.00	-49.10
3465.000	-42.81	-46.20	12.47	-9.08	-13.00	-29.80
5197.500	-34.31	-37.56	12.39	-9.14	-13.00	-21.30

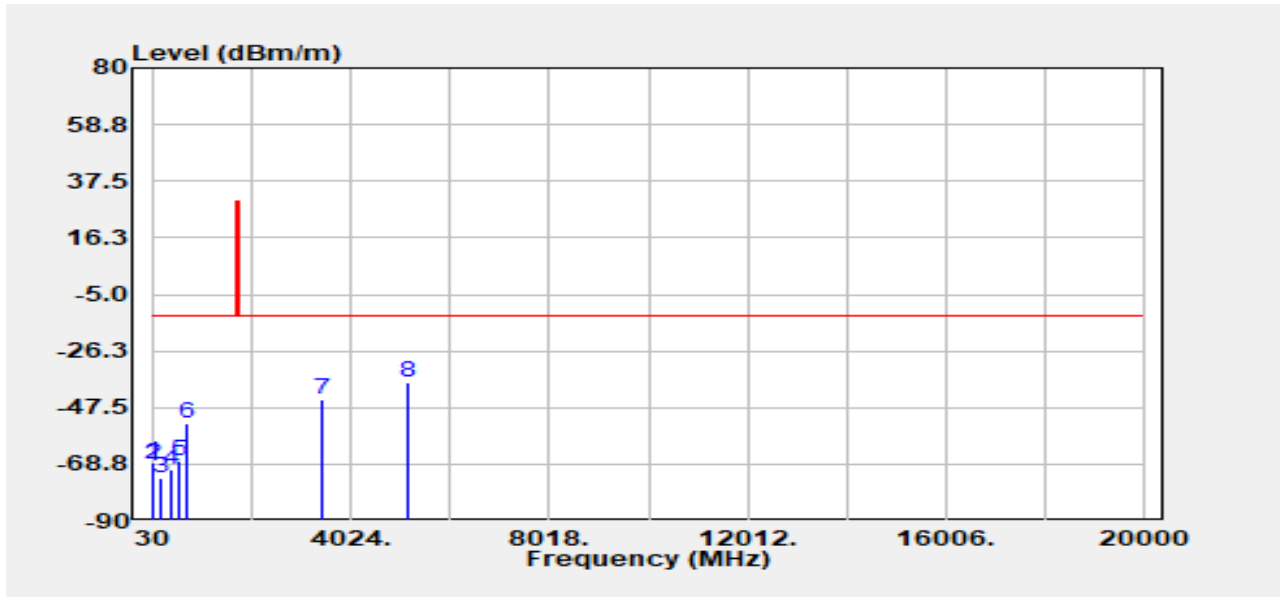
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B4 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1732.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-68.11	-48.89	-18.97	-0.25	-13.00	-55.10
51.340	-68.98	-52.05	-16.60	-0.33	-13.00	-55.97
196.840	-74.20	-72.16	-1.24	-0.80	-13.00	-61.19
433.520	-70.99	-68.91	-0.94	-1.14	-13.00	-57.98
575.140	-67.42	-64.76	-0.95	-1.71	-13.00	-54.41
731.310	-53.21	-50.06	-1.18	-1.97	-13.00	-40.20
3465.000	-44.63	-48.02	12.47	-9.08	-13.00	-31.62
5197.500	-37.98	-41.23	12.39	-9.14	-13.00	-24.97

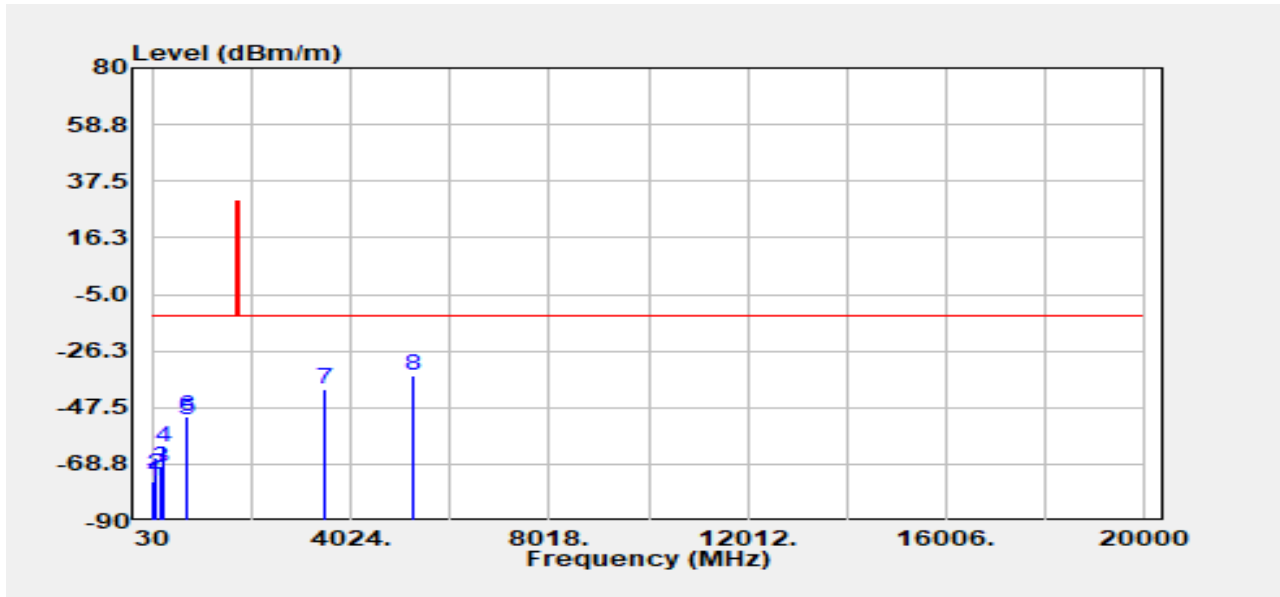
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B4 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :1754.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.340	-74.98	-58.05	-16.60	-0.33	-13.00	-61.97
114.390	-72.40	-65.15	-6.65	-0.60	-13.00	-59.39
197.810	-69.81	-67.79	-1.22	-0.80	-13.00	-56.80
278.320	-62.55	-60.58	-1.05	-0.92	-13.00	-49.54
731.310	-52.46	-49.31	-1.18	-1.97	-13.00	-39.45
745.860	-50.83	-47.58	-1.51	-1.74	-13.00	-37.82
3509.800	-40.37	-43.52	12.40	-9.25	-13.00	-27.36
5264.700	-35.38	-39.43	12.87	-8.82	-13.00	-22.37

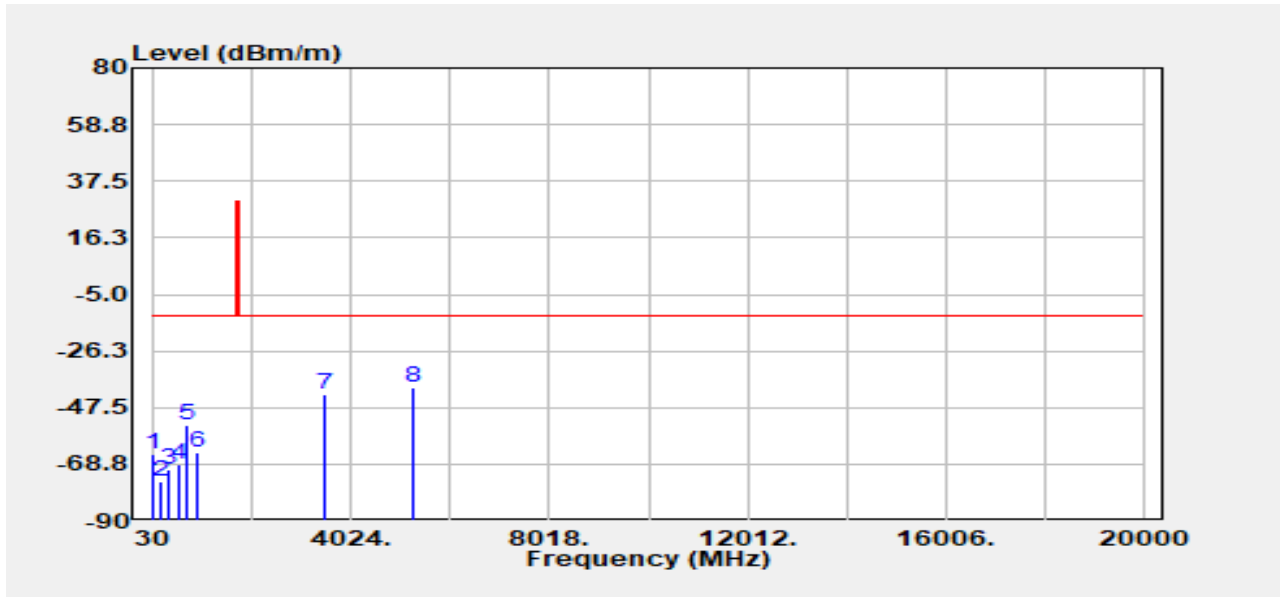
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B4 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :1754.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.550	-65.01	-46.74	-17.98	-0.29	-13.00	-52.00
201.690	-75.23	-73.47	-0.95	-0.81	-13.00	-62.22
345.250	-71.01	-69.39	-0.47	-1.15	-13.00	-58.00
578.050	-68.63	-65.96	-0.96	-1.71	-13.00	-55.62
745.860	-53.76	-50.51	-1.51	-1.74	-13.00	-40.75
943.740	-64.37	-61.16	-1.44	-1.77	-13.00	-51.36
3509.800	-42.65	-46.03	12.40	-9.02	-13.00	-29.64
5264.700	-39.74	-43.79	12.86	-8.81	-13.00	-26.73

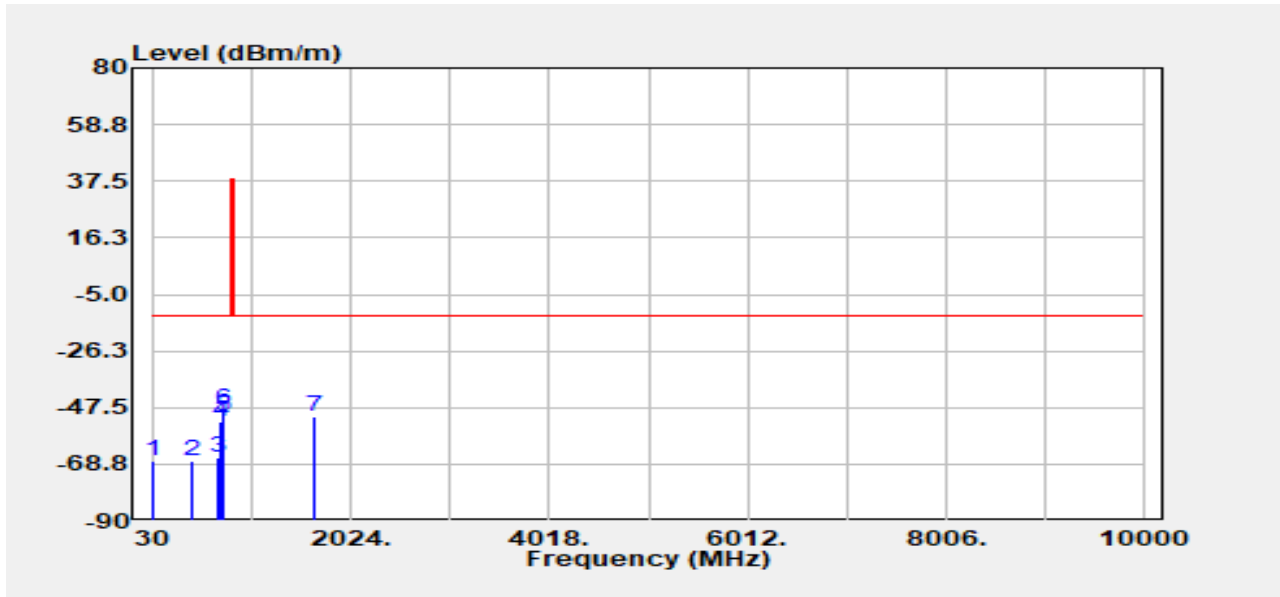
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NB IOT Band 5

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B5 BPSK	Test Date	:2020-12-14
Test Mode	:TX CH Low	Temp./Humi.	:20.5/66
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:824.1 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
47.460	-67.83	-50.01	-17.52	-0.30	-13.00	-54.82
424.790	-67.36	-65.38	-0.77	-1.21	-13.00	-54.35
688.630	-66.00	-63.83	-0.95	-1.22	-13.00	-52.99
731.310	-53.05	-49.90	-1.18	-1.97	-13.00	-40.04
738.100	-50.98	-47.80	-1.30	-1.88	-13.00	-37.97
745.860	-48.32	-45.07	-1.51	-1.74	-13.00	-35.31
1648.200	-50.72	-54.97	9.50	-5.25	-13.00	-37.71

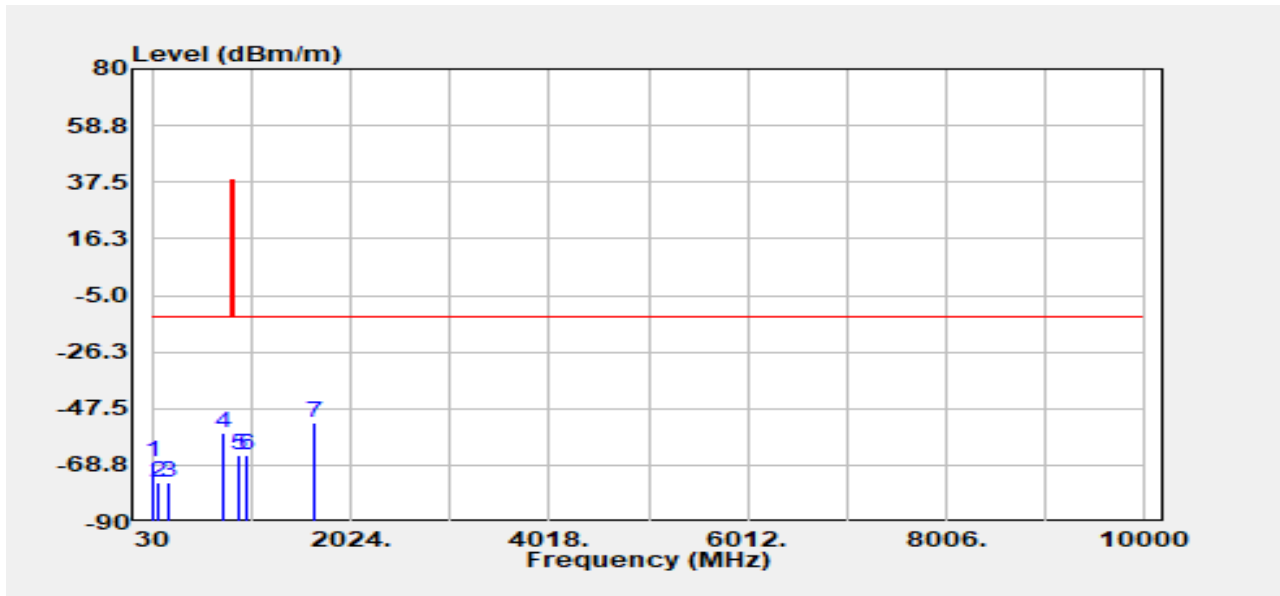
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B5 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :824.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :20.5/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-67.45	-48.23	-18.97	-0.25	-13.00	-54.44
89.170	-74.98	-68.75	-5.75	-0.48	-13.00	-61.97
196.840	-74.93	-72.89	-1.24	-0.80	-13.00	-61.92
746.830	-56.46	-53.23	-1.51	-1.72	-13.00	-43.45
897.180	-65.00	-62.03	-1.08	-1.89	-13.00	-51.99
990.300	-64.68	-61.54	-1.23	-1.91	-13.00	-51.67
1648.200	-52.90	-57.15	9.50	-5.25	-13.00	-39.89

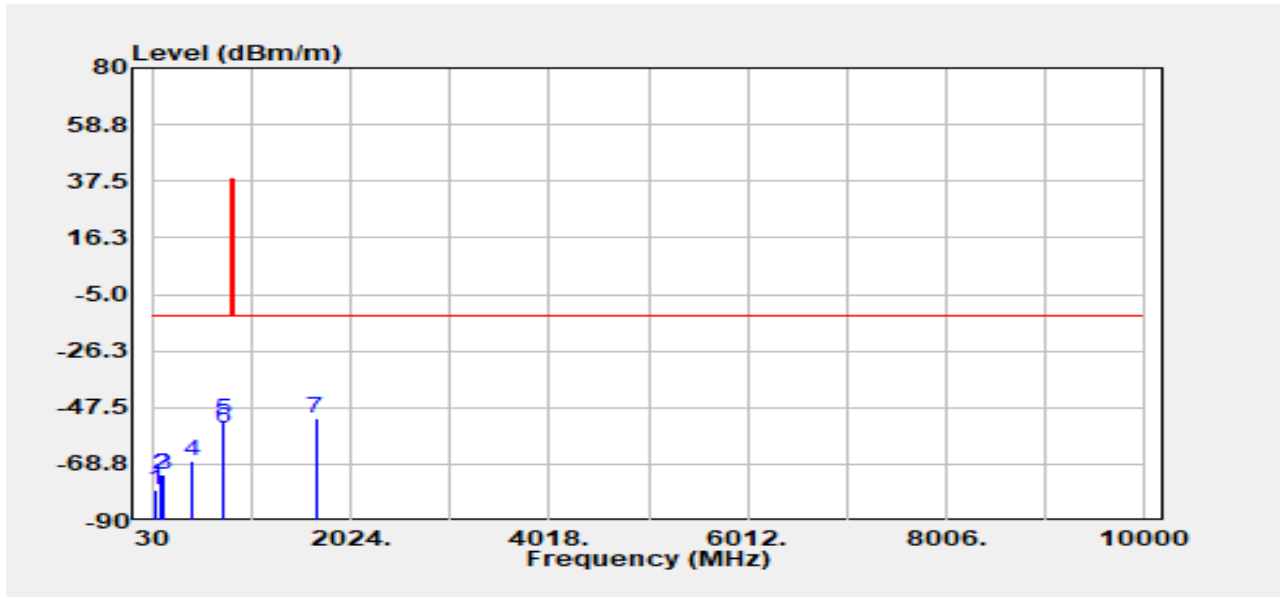
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B5 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :20.5/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.160	-78.57	-62.89	-15.30	-0.38	-13.00	-65.56
118.270	-72.90	-65.58	-6.71	-0.61	-13.00	-59.89
142.520	-72.92	-65.28	-7.01	-0.63	-13.00	-59.91
430.610	-67.44	-65.40	-0.88	-1.16	-13.00	-54.43
735.190	-51.86	-48.72	-1.22	-1.92	-13.00	-38.85
746.830	-55.40	-52.17	-1.51	-1.72	-13.00	-42.39
1673.000	-51.72	-56.05	9.55	-5.22	-13.00	-38.71

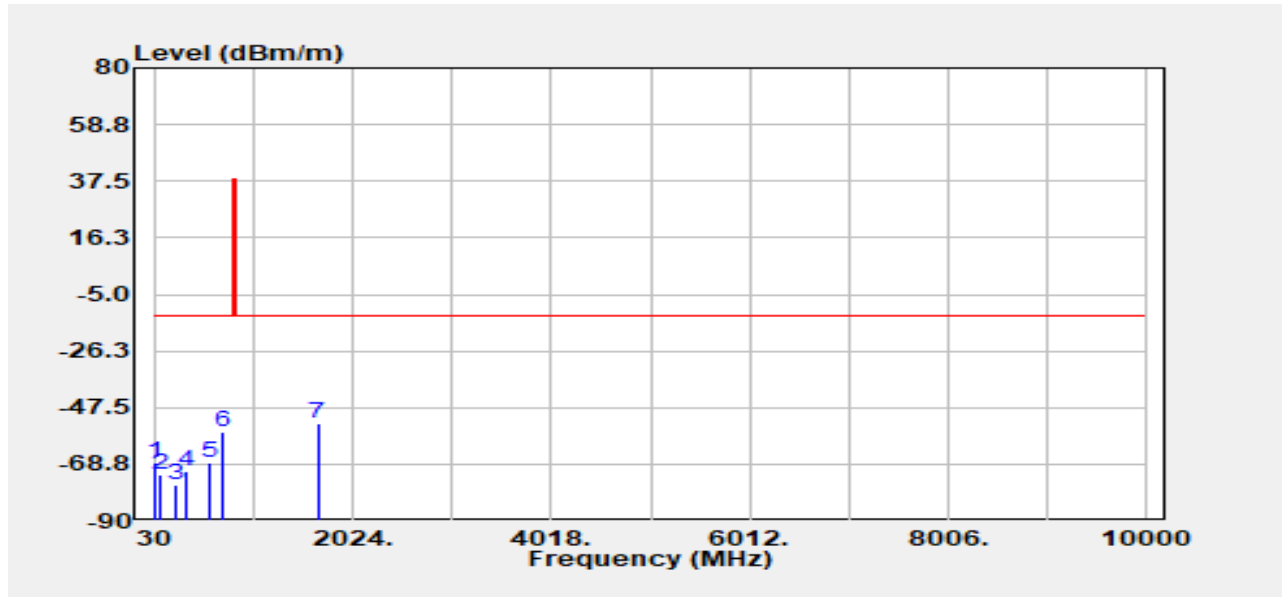
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B5 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :20.5/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-68.10	-48.88	-18.97	-0.25	-13.00	-55.09
103.720	-72.41	-65.86	-5.99	-0.56	-13.00	-59.40
238.550	-76.74	-75.23	-0.65	-0.86	-13.00	-63.73
355.920	-71.43	-69.95	-0.45	-1.03	-13.00	-58.42
600.360	-68.48	-66.01	-1.29	-1.18	-13.00	-55.47
731.310	-56.32	-53.17	-1.18	-1.97	-13.00	-43.31
1673.000	-53.34	-57.67	9.55	-5.22	-13.00	-40.33

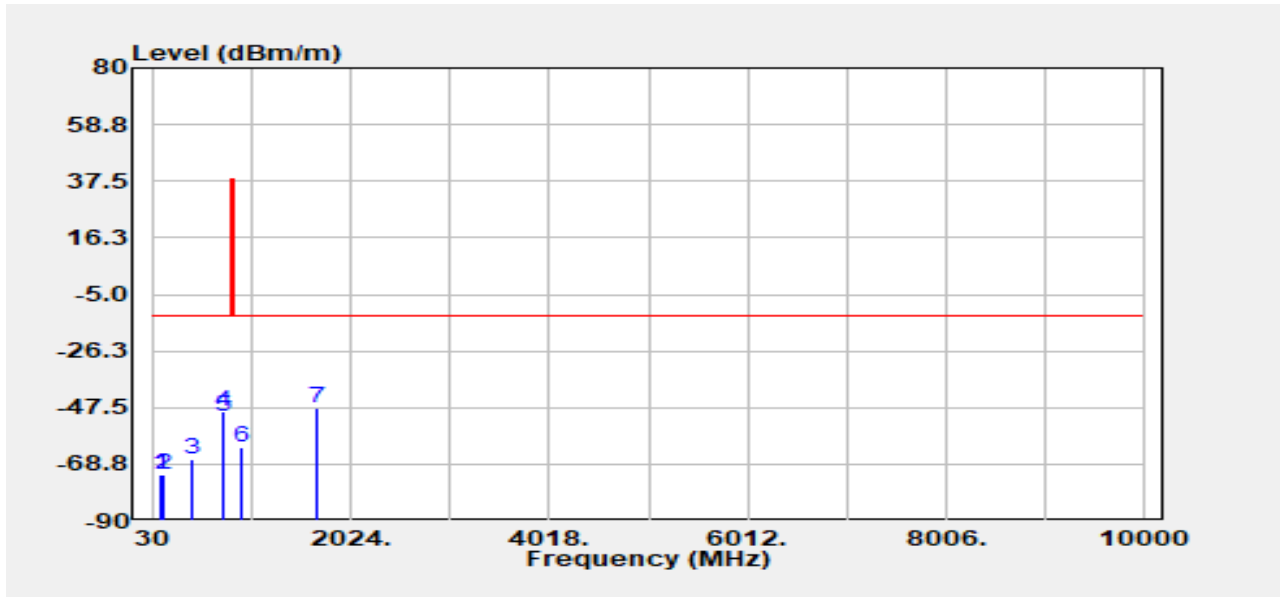
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B5 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :848.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :20.5/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.330	-72.86	-65.63	-6.63	-0.60	-13.00	-59.85
140.580	-72.85	-65.25	-6.99	-0.61	-13.00	-59.84
429.640	-66.67	-64.65	-0.86	-1.16	-13.00	-53.66
733.250	-48.72	-45.57	-1.20	-1.95	-13.00	-35.71
746.830	-51.03	-47.80	-1.51	-1.72	-13.00	-38.02
933.070	-62.31	-59.17	-1.40	-1.74	-13.00	-49.30
1697.800	-47.63	-52.05	9.60	-5.18	-13.00	-34.62

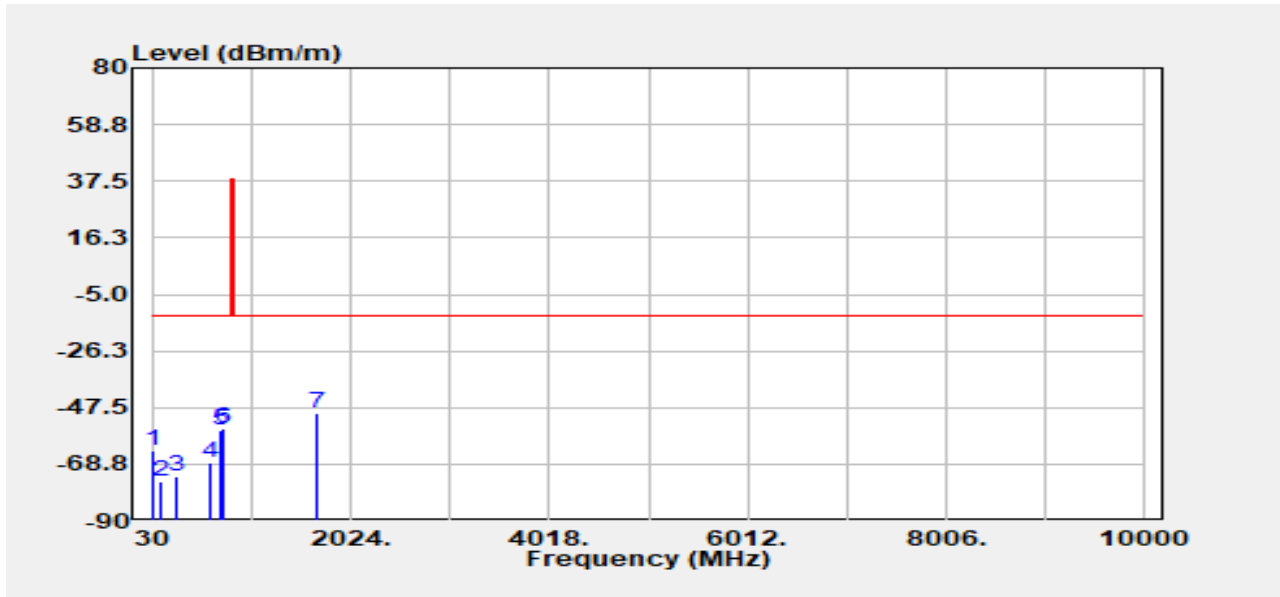
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B5 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :848.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :20.5/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-63.69	-44.47	-18.97	-0.25	-13.00	-50.68
126.030	-75.51	-68.06	-6.84	-0.61	-13.00	-62.50
264.740	-73.02	-71.41	-0.68	-0.93	-13.00	-60.01
612.000	-67.90	-65.33	-1.40	-1.17	-13.00	-54.89
731.310	-55.72	-52.57	-1.18	-1.97	-13.00	-42.71
746.830	-55.18	-51.95	-1.51	-1.72	-13.00	-42.17
1697.800	-49.49	-53.91	9.60	-5.18	-13.00	-36.48

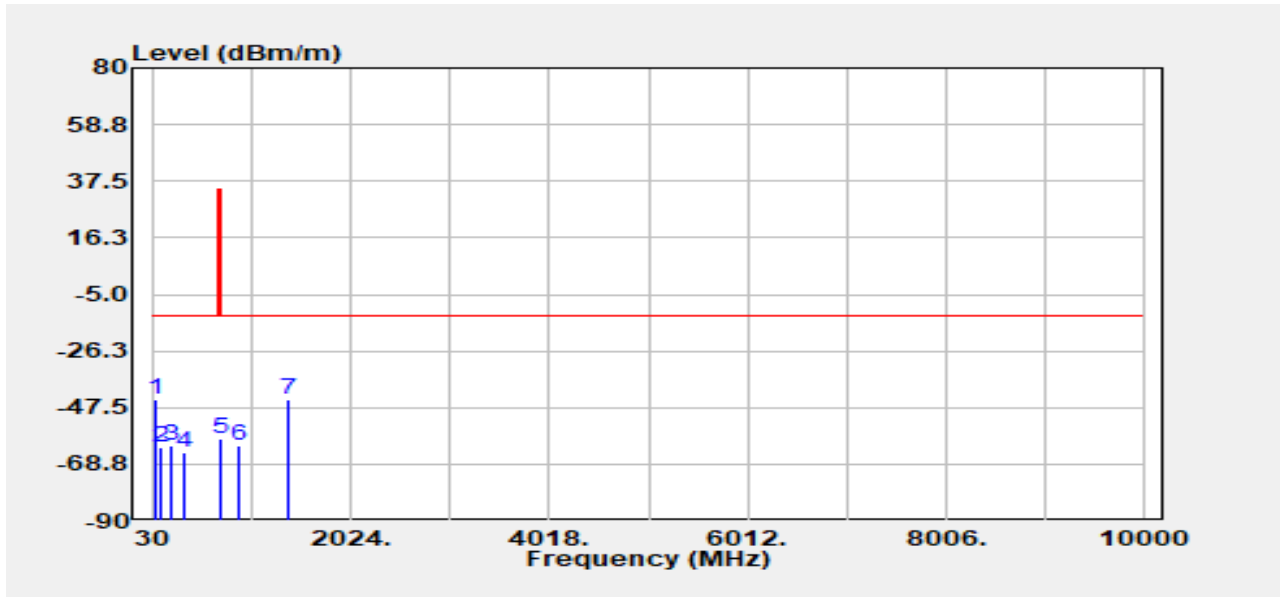
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NB IOT Band 12

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B12 QPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:21.3/62
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:699.1 MHz	Engineer	:Ashton Chiu



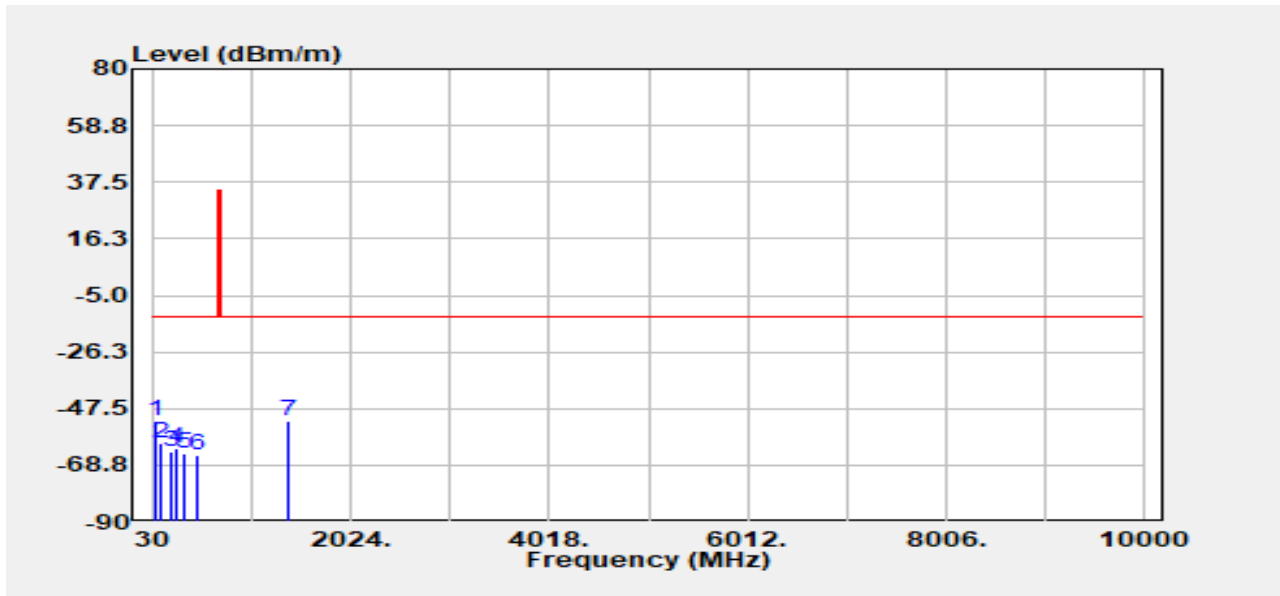
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-44.32	-28.24	-15.72	-0.36	-13.00	-31.31
115.360	-62.62	-55.35	-6.67	-0.60	-13.00	-49.61
212.360	-61.48	-60.25	-0.40	-0.83	-13.00	-48.47
342.340	-64.57	-62.84	-0.55	-1.18	-13.00	-51.56
730.340	-58.96	-55.80	-1.17	-1.99	-13.00	-45.95
906.880	-61.50	-58.39	-1.23	-1.88	-13.00	-48.49
1398.200	-44.67	-47.88	7.58	-4.37	-13.00	-31.66

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B12 QPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :699.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :21.3/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.010	-52.27	-37.76	-14.09	-0.42	-13.00	-39.26
128.940	-60.32	-52.78	-6.93	-0.61	-13.00	-47.31
213.330	-63.73	-62.54	-0.36	-0.83	-13.00	-50.72
266.680	-62.42	-60.72	-0.76	-0.94	-13.00	-49.41
341.370	-64.28	-62.52	-0.57	-1.19	-13.00	-51.27
480.080	-65.29	-63.02	-0.82	-1.45	-13.00	-52.28
1398.200	-52.25	-55.46	7.58	-4.37	-13.00	-39.24

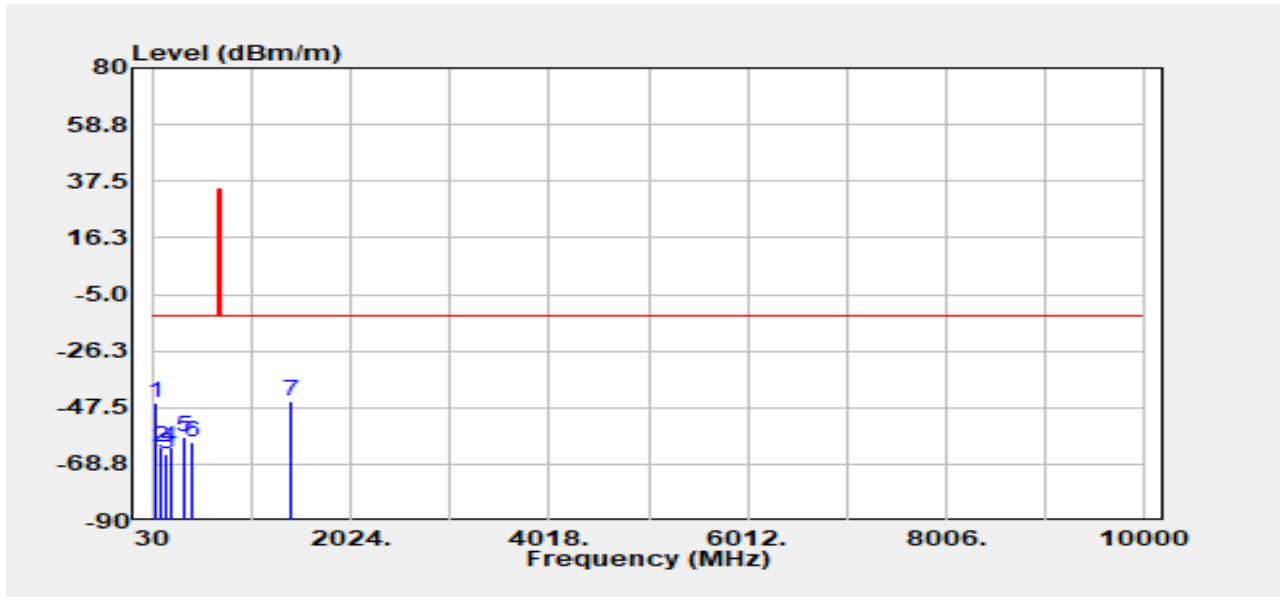
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B12 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :707.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :21.4/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-46.03	-29.95	-15.72	-0.36	-13.00	-33.02
119.240	-62.24	-54.87	-6.76	-0.61	-13.00	-49.23
174.530	-64.73	-59.23	-4.80	-0.70	-13.00	-51.72
209.450	-62.57	-61.21	-0.53	-0.83	-13.00	-49.56
355.920	-58.87	-57.39	-0.45	-1.03	-13.00	-45.86
420.910	-60.79	-58.84	-0.70	-1.25	-13.00	-47.78
1415.000	-45.39	-48.70	7.72	-4.41	-13.00	-32.38

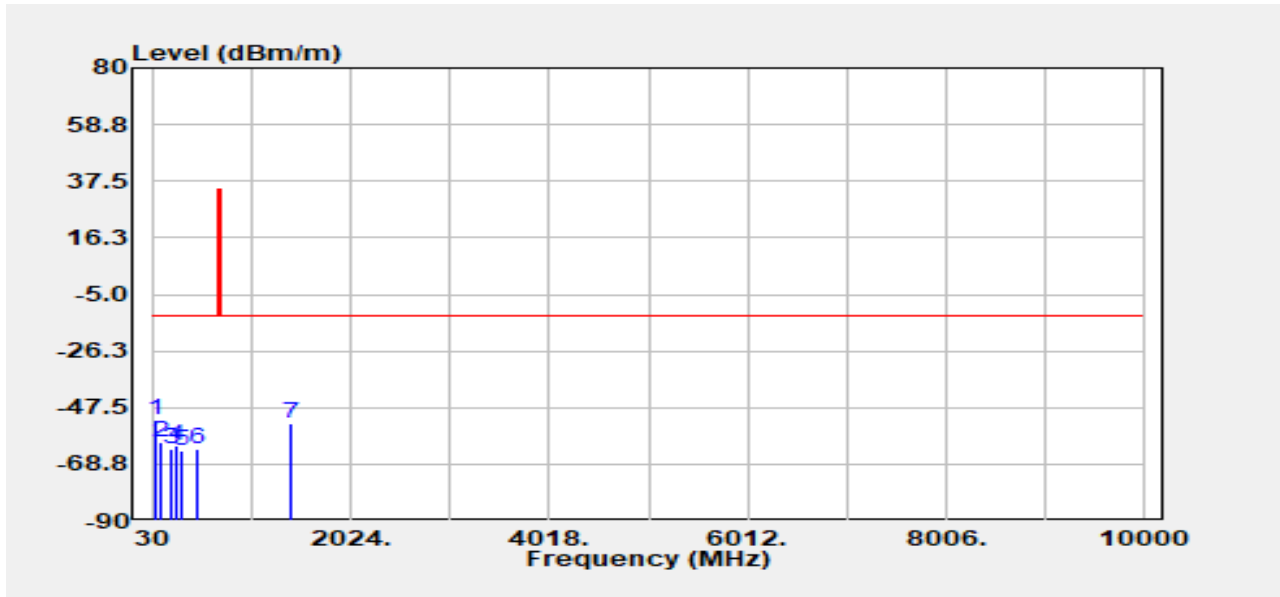
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B12 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :707.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :21.4/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.010	-52.11	-37.60	-14.09	-0.42	-13.00	-39.10
128.940	-60.63	-53.09	-6.93	-0.61	-13.00	-47.62
231.760	-62.76	-61.81	-0.09	-0.86	-13.00	-49.75
262.800	-61.67	-60.09	-0.66	-0.92	-13.00	-48.66
336.520	-63.77	-61.90	-0.70	-1.17	-13.00	-50.76
477.170	-62.88	-60.65	-0.81	-1.42	-13.00	-49.87
1415.000	-53.49	-56.80	7.72	-4.41	-13.00	-40.48

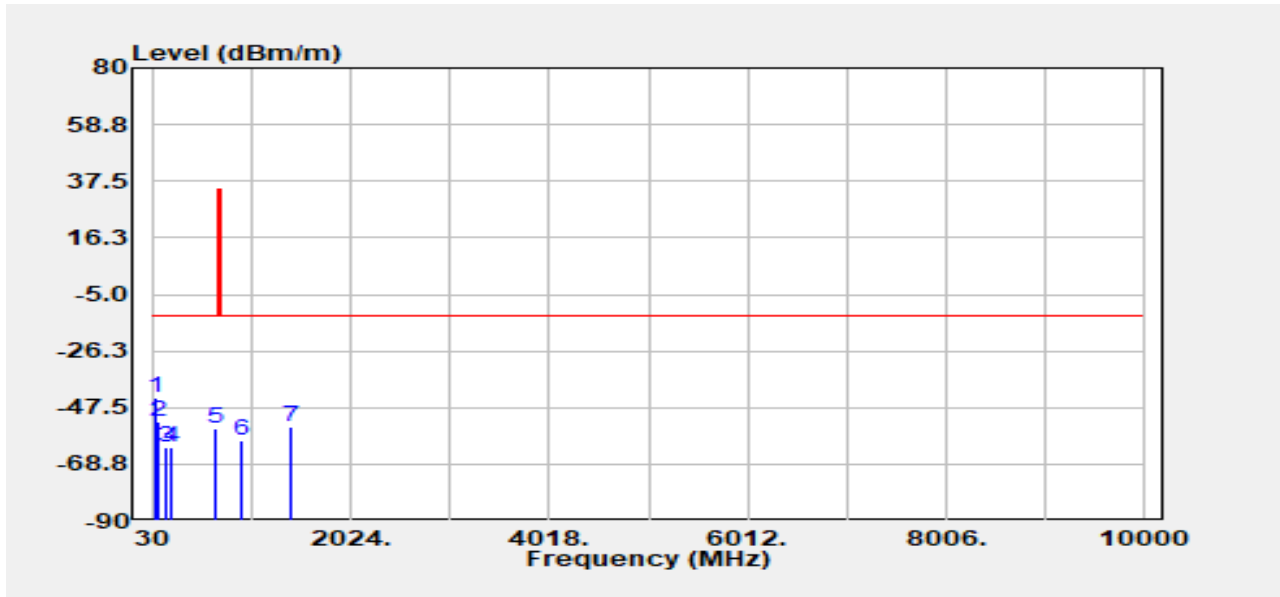
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B12 QPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :715.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :21.4/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-43.65	-27.67	-15.61	-0.37	-13.00	-30.64
102.750	-52.53	-46.00	-5.98	-0.55	-13.00	-39.52
175.500	-62.73	-57.38	-4.65	-0.70	-13.00	-49.72
226.910	-62.19	-61.56	0.22	-0.85	-13.00	-49.18
666.320	-55.11	-52.33	-1.06	-1.72	-13.00	-42.10
937.920	-59.70	-56.49	-1.46	-1.75	-13.00	-46.69
1431.800	-54.97	-58.35	7.86	-4.48	-13.00	-41.96

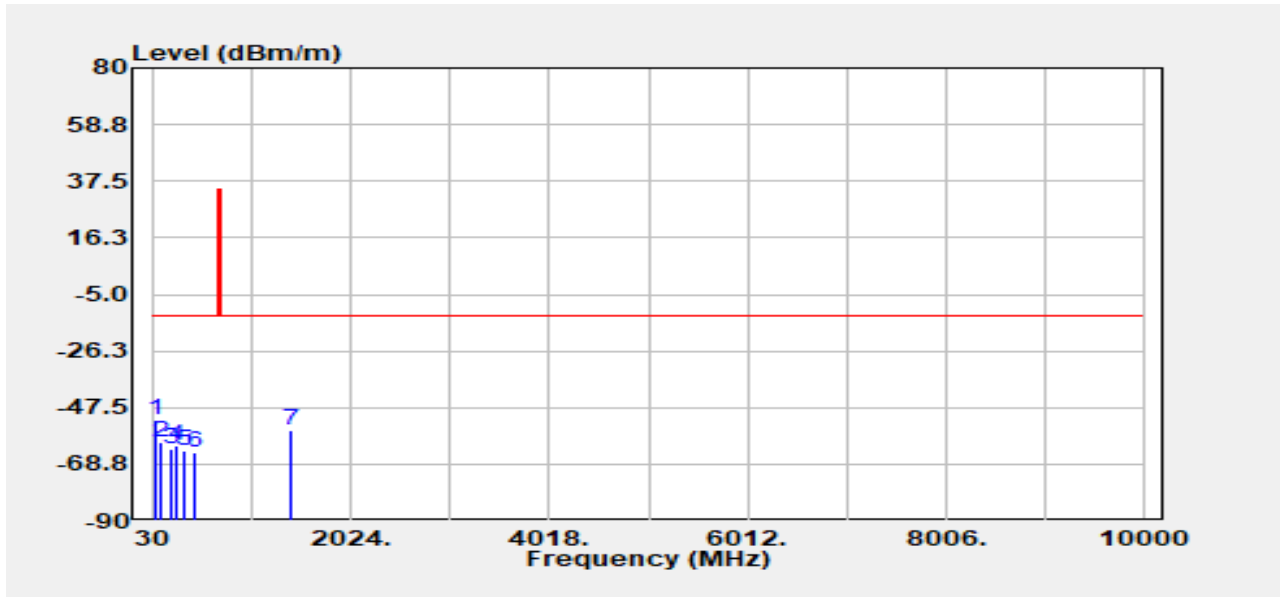
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B12 QPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :715.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :21.4/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.160	-51.89	-36.21	-15.30	-0.38	-13.00	-38.88
128.940	-60.17	-52.63	-6.93	-0.61	-13.00	-47.16
226.910	-63.26	-62.63	0.22	-0.85	-13.00	-50.25
271.530	-61.46	-59.59	-0.92	-0.95	-13.00	-48.45
341.370	-63.81	-62.05	-0.57	-1.19	-13.00	-50.80
464.560	-64.18	-62.09	-0.89	-1.20	-13.00	-51.17
1431.800	-55.97	-59.35	7.86	-4.48	-13.00	-42.96

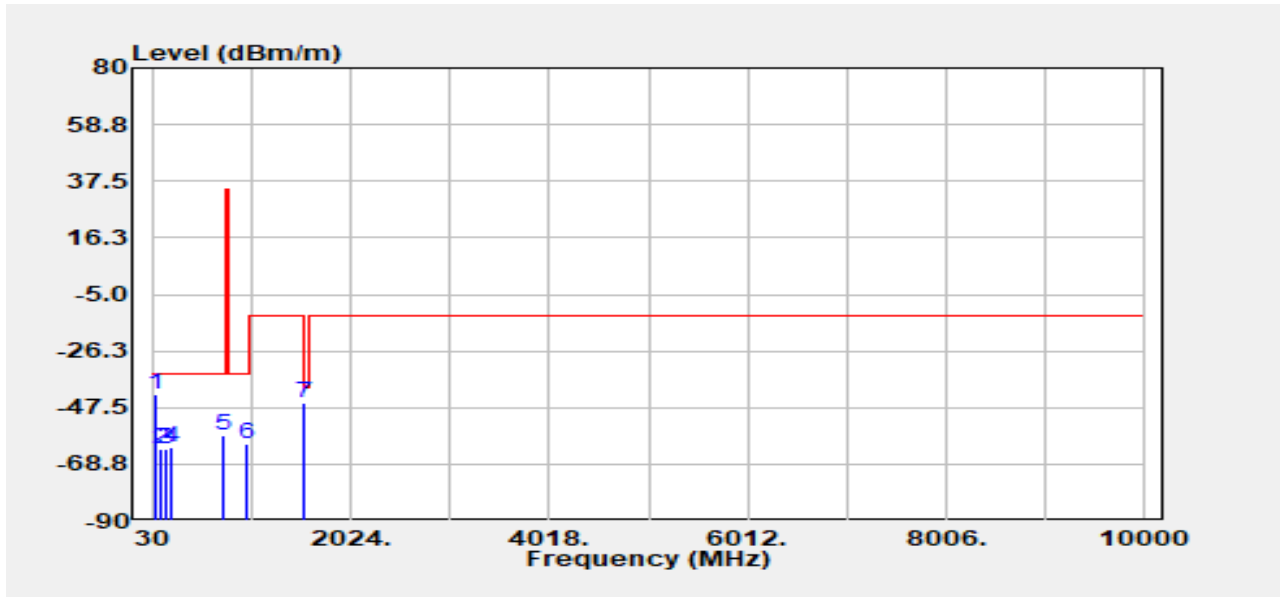
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NB IOT Band 13

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B13 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:22.1/61
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:777.1 MHz	Engineer	:Ashton Chiu



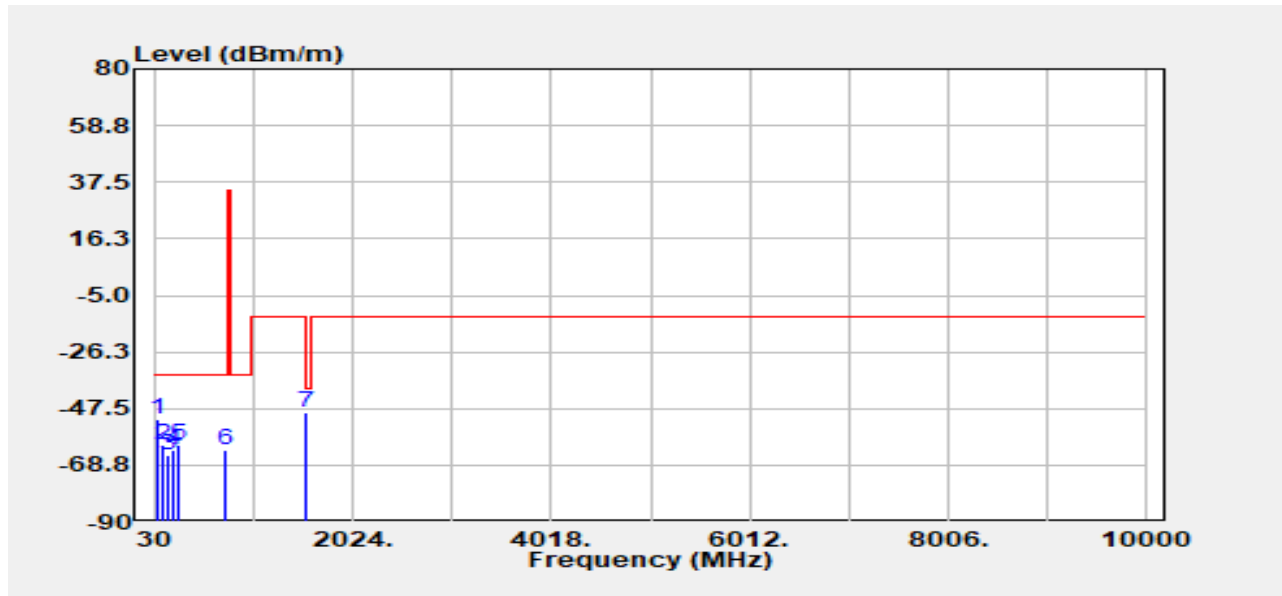
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-42.37	-26.39	-15.61	-0.37	-35.00	-7.36
126.030	-62.85	-55.40	-6.84	-0.61	-35.00	-27.84
175.500	-63.33	-57.98	-4.65	-0.70	-35.00	-28.32
216.240	-62.56	-61.52	-0.21	-0.83	-35.00	-27.55
746.830	-58.12	-54.89	-1.51	-1.72	-35.00	-23.11
988.360	-60.94	-57.83	-1.21	-1.90	-35.00	-25.93
1554.200	-45.59	-49.92	9.13	-4.80	-13.00	-32.58

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :777.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :22.1/61
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


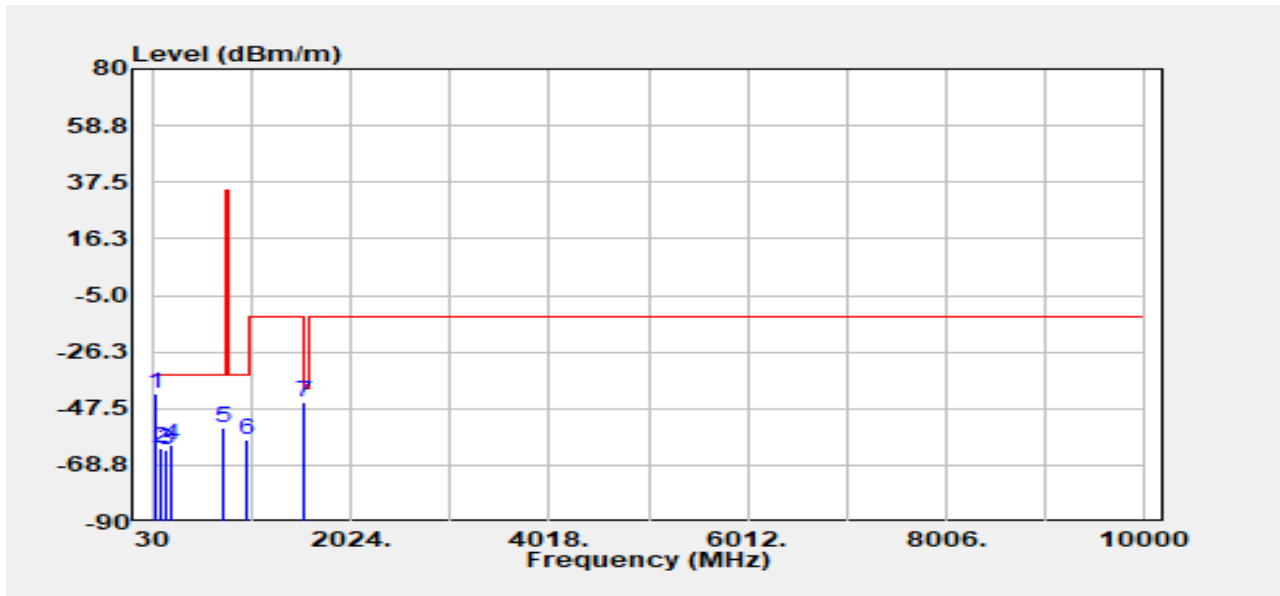
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.010	-51.67	-37.16	-14.09	-0.42	-35.00	-16.66
127.970	-61.43	-53.92	-6.90	-0.61	-35.00	-26.42
169.680	-65.23	-59.02	-5.55	-0.66	-35.00	-30.22
224.970	-63.37	-62.83	0.30	-0.84	-35.00	-28.36
265.710	-60.86	-59.21	-0.71	-0.94	-35.00	-25.85
737.130	-62.87	-59.70	-1.27	-1.90	-35.00	-27.86
1544.200	-48.94	-53.19	9.05	-4.80	-13.00	-35.93

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :22.3/60
Antenna Pol. :Vertical
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
56.190	-41.68	-25.70	-15.61	-0.37	-35.00	-6.67
122.150	-62.53	-55.02	-6.90	-0.61	-35.00	-27.52
175.500	-62.82	-57.47	-4.65	-0.70	-35.00	-27.81
227.880	-61.34	-60.67	0.18	-0.85	-35.00	-26.33
740.040	-54.65	-51.43	-1.36	-1.86	-35.00	-19.64
982.540	-59.21	-56.14	-1.19	-1.88	-35.00	-24.20
1564.000	-44.87	-49.21	9.18	-4.84	-40.00	-4.86

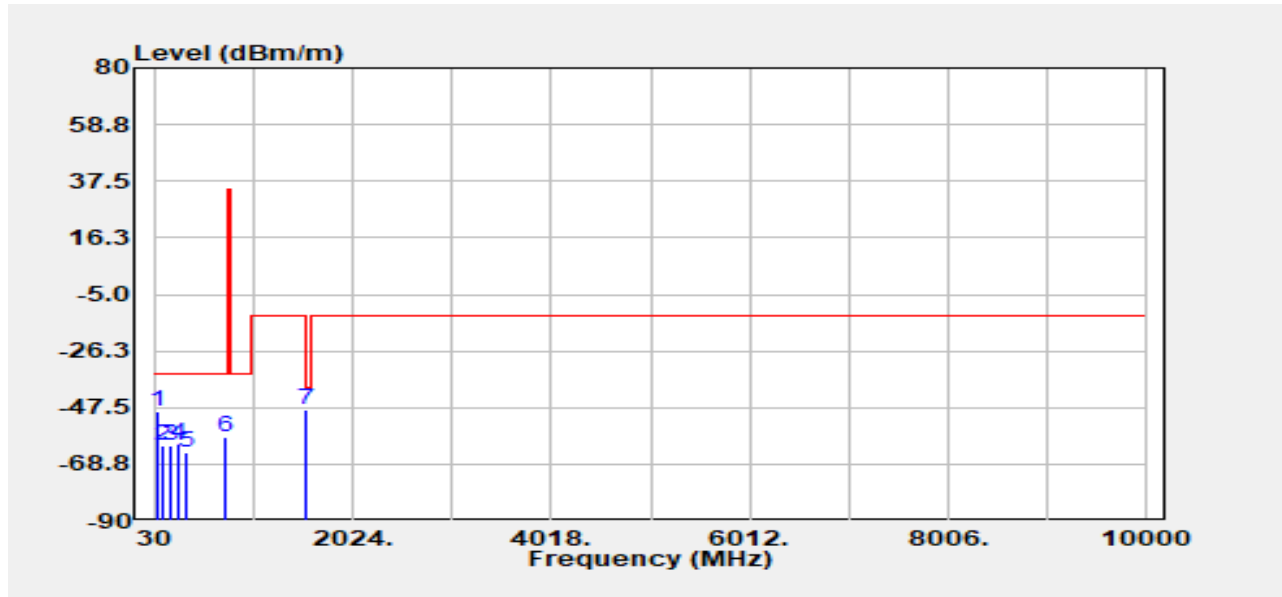
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.3/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-48.95	-32.87	-15.72	-0.36	-35.00	-13.94
127.970	-61.64	-54.13	-6.90	-0.61	-35.00	-26.63
205.570	-62.02	-60.43	-0.77	-0.82	-35.00	-27.01
266.680	-61.09	-59.39	-0.76	-0.94	-35.00	-26.08
341.370	-64.48	-62.72	-0.57	-1.19	-35.00	-29.47
739.070	-58.51	-55.31	-1.33	-1.87	-35.00	-23.50
1564.000	-48.49	-52.83	9.18	-4.84	-40.00	-8.48

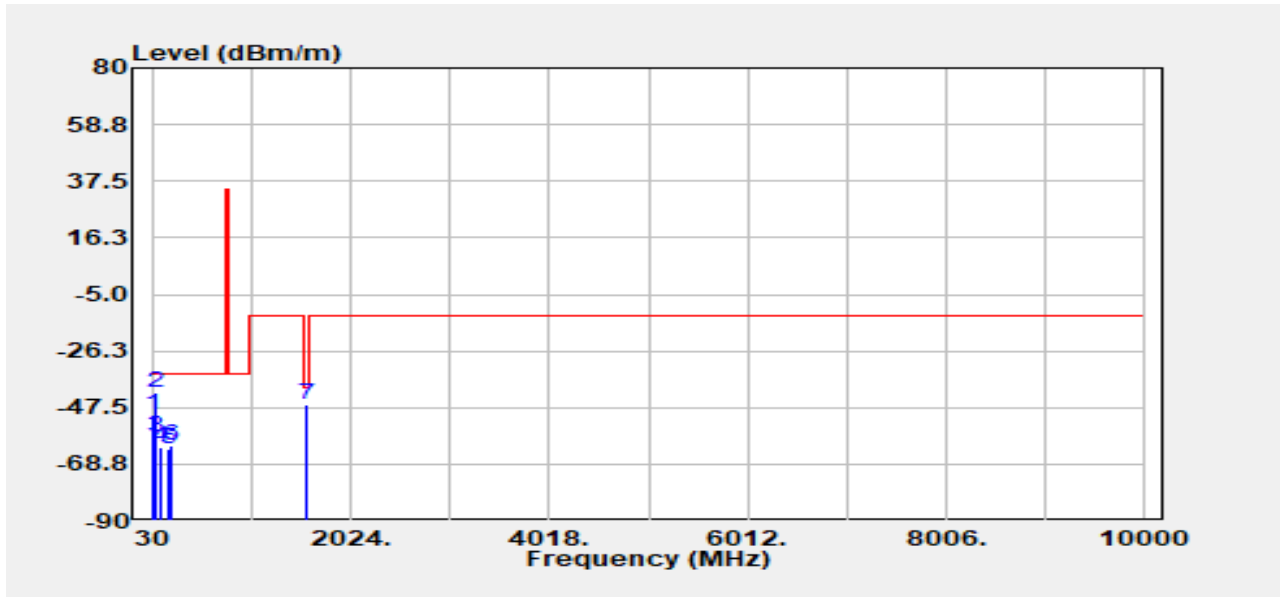
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :786.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :22.7/57
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.340	-50.17	-33.24	-16.60	-0.33	-35.00	-15.16
56.190	-42.11	-26.13	-15.61	-0.37	-35.00	-7.10
66.860	-58.49	-45.18	-12.85	-0.46	-35.00	-23.48
115.360	-62.61	-55.34	-6.67	-0.60	-35.00	-27.60
205.570	-62.89	-61.30	-0.77	-0.82	-35.00	-27.88
226.910	-61.60	-60.97	0.22	-0.85	-35.00	-26.59
1573.800	-46.58	-50.95	9.24	-4.87	-40.00	-6.57

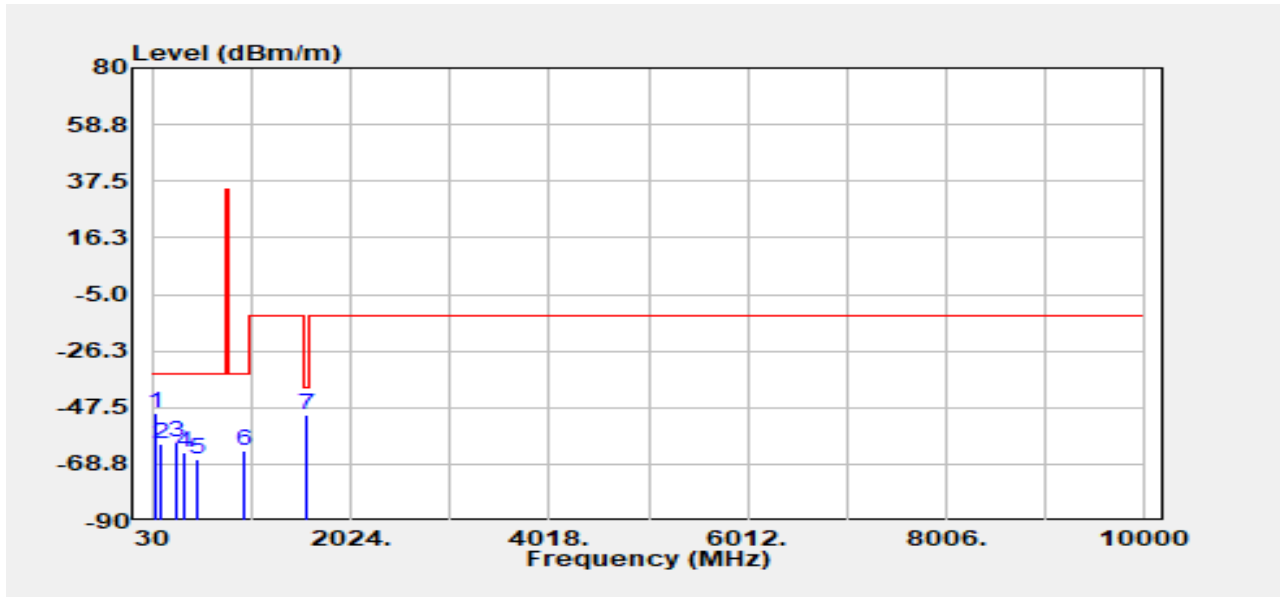
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :786.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :22.7/57
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-49.79	-33.81	-15.61	-0.37	-35.00	-14.78
128.940	-61.14	-53.60	-6.93	-0.61	-35.00	-26.13
269.590	-60.72	-58.88	-0.89	-0.95	-35.00	-25.71
347.190	-64.17	-62.61	-0.43	-1.13	-35.00	-29.16
475.230	-66.79	-64.57	-0.81	-1.41	-35.00	-31.78
951.500	-63.44	-60.28	-1.37	-1.79	-35.00	-28.43
1573.800	-50.01	-54.38	9.24	-4.87	-40.00	-10.00

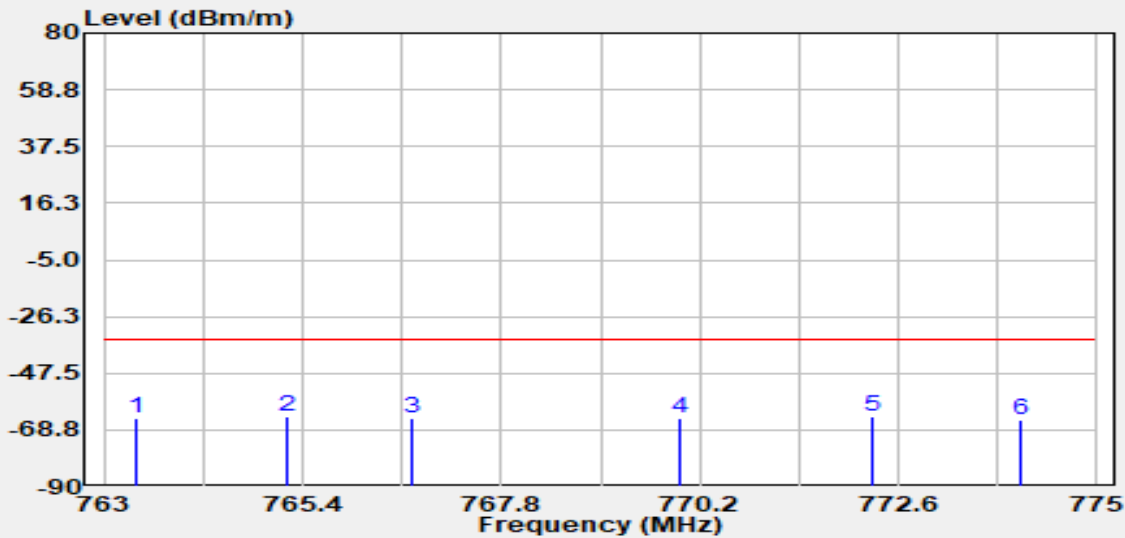
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NB IOT Band 13 (763-775MHz)

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B13 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:23.0/56
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:777.1 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
763.384	-64.54	-61.62	-1.49	-1.43	-35.00	-29.53
765.220	-63.43	-60.55	-1.47	-1.41	-35.00	-28.42
766.708	-64.10	-61.22	-1.48	-1.40	-35.00	-29.09
769.972	-64.09	-61.22	-1.51	-1.36	-35.00	-29.08
772.276	-64.02	-61.12	-1.53	-1.37	-35.00	-29.01
774.064	-64.74	-61.83	-1.54	-1.37	-35.00	-29.73

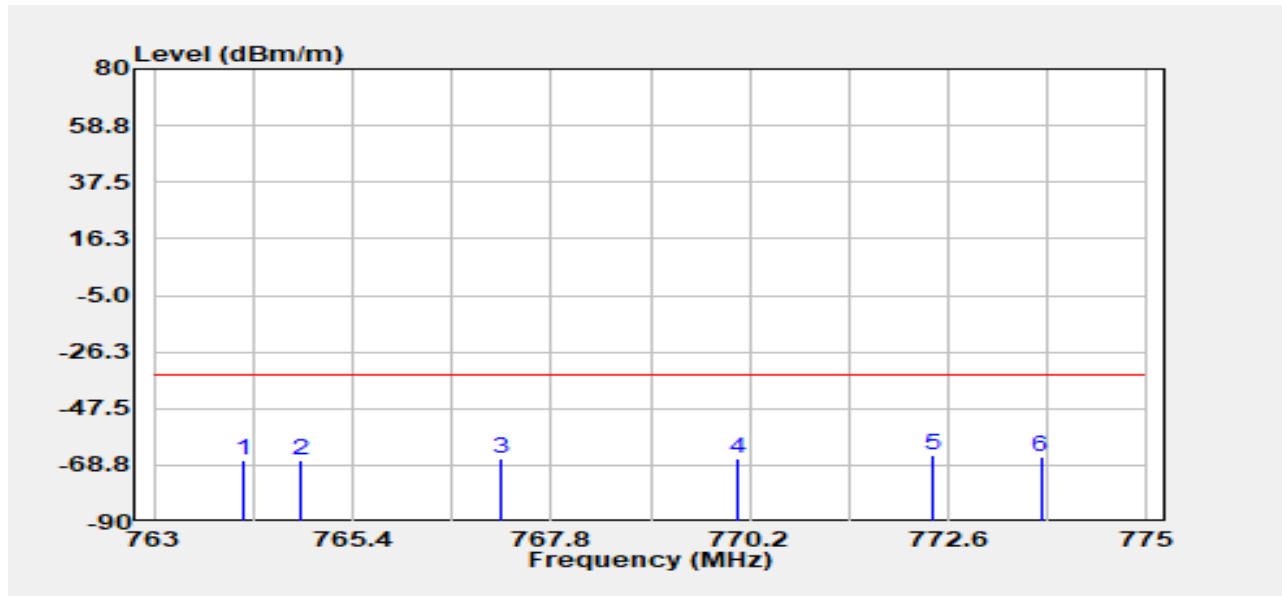
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :777.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.0/56
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
764.080	-67.15	-64.25	-1.48	-1.42	-35.00	-32.14
764.764	-67.07	-64.18	-1.47	-1.42	-35.00	-32.06
767.200	-66.31	-63.43	-1.49	-1.39	-35.00	-31.30
770.044	-66.14	-63.27	-1.51	-1.36	-35.00	-31.13
772.408	-65.20	-62.30	-1.53	-1.37	-35.00	-30.19
773.716	-65.86	-62.95	-1.54	-1.37	-35.00	-30.85

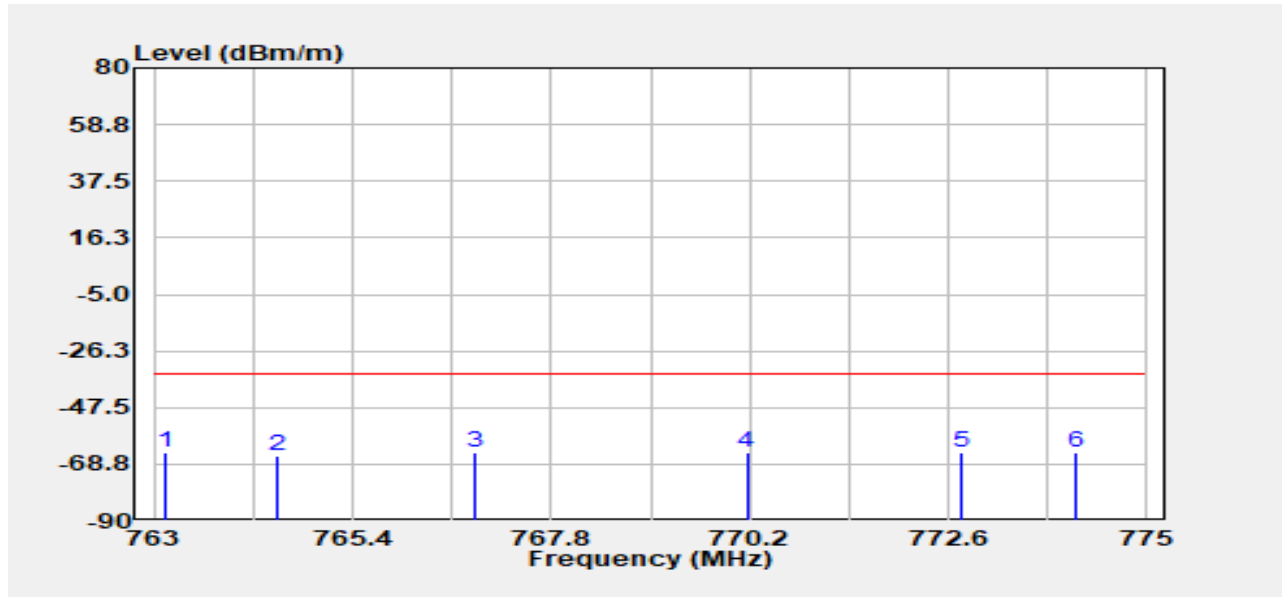
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.0/56
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.132	-64.19	-61.26	-1.49	-1.44	-35.00	-29.18
764.488	-65.75	-62.85	-1.48	-1.42	-35.00	-30.74
766.888	-64.40	-61.52	-1.49	-1.39	-35.00	-29.39
770.164	-64.05	-61.18	-1.51	-1.36	-35.00	-29.04
772.744	-64.30	-61.40	-1.53	-1.37	-35.00	-29.29
774.136	-64.11	-61.20	-1.54	-1.37	-35.00	-29.10

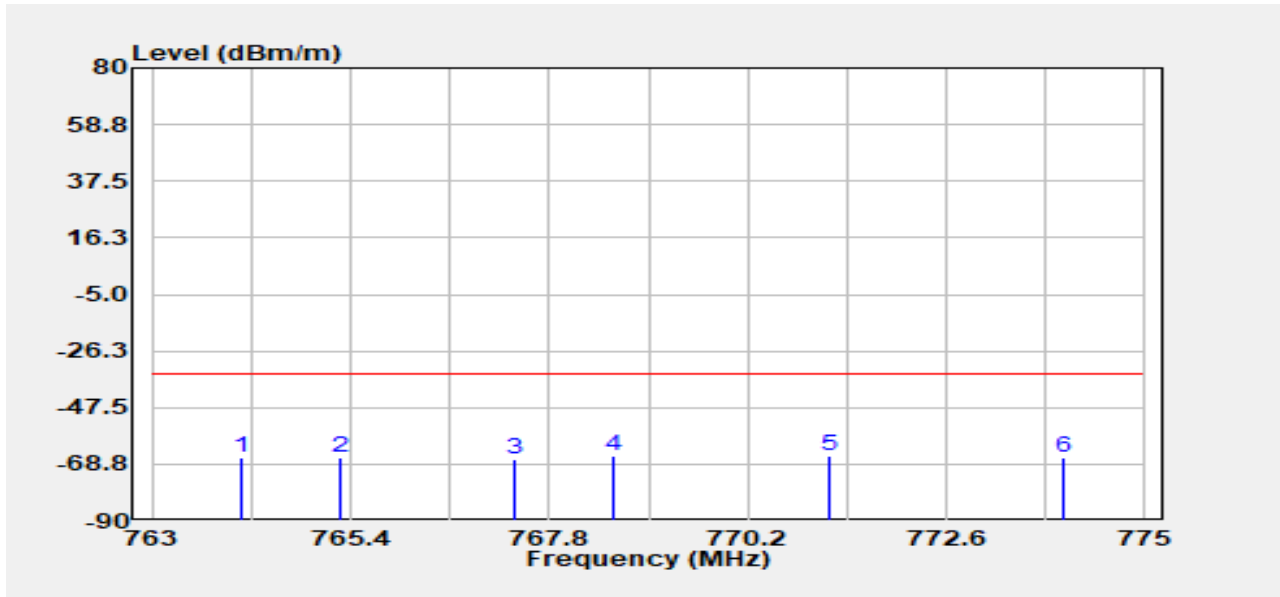
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.0/56
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.080	-66.53	-63.63	-1.48	-1.42	-35.00	-31.52
765.280	-66.55	-63.67	-1.47	-1.41	-35.00	-31.54
767.368	-66.62	-63.74	-1.49	-1.39	-35.00	-31.61
768.580	-65.68	-62.80	-1.50	-1.38	-35.00	-30.67
771.196	-65.44	-62.56	-1.52	-1.36	-35.00	-30.43
774.028	-66.14	-63.23	-1.54	-1.37	-35.00	-31.13

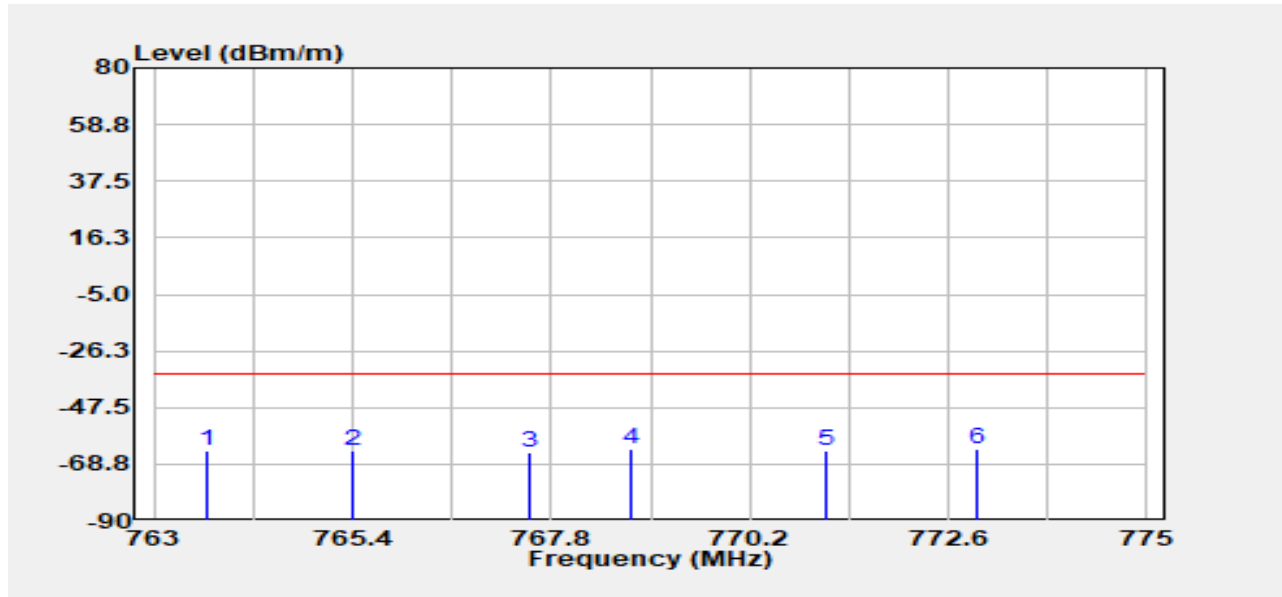
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :786.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.2/55
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.648	-63.44	-60.53	-1.48	-1.43	-35.00	-28.43
765.400	-63.69	-60.81	-1.47	-1.41	-35.00	-28.68
767.548	-64.10	-61.22	-1.49	-1.39	-35.00	-29.09
768.760	-63.38	-60.51	-1.50	-1.37	-35.00	-28.37
771.124	-63.77	-60.89	-1.52	-1.36	-35.00	-28.76
772.948	-63.18	-60.28	-1.53	-1.37	-35.00	-28.17

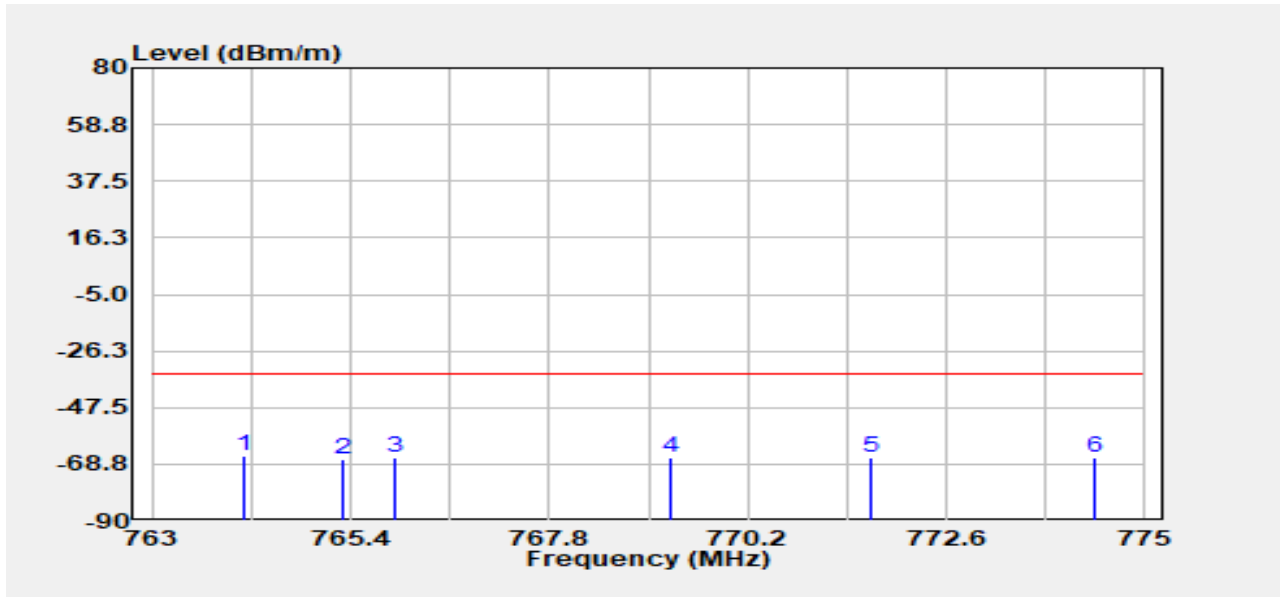
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :786.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.2/55
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.116	-65.54	-62.64	-1.48	-1.42	-35.00	-30.53
765.292	-66.81	-63.93	-1.47	-1.41	-35.00	-31.80
765.928	-66.28	-63.40	-1.48	-1.40	-35.00	-31.27
769.276	-66.02	-63.15	-1.50	-1.37	-35.00	-31.01
771.700	-66.01	-63.12	-1.52	-1.37	-35.00	-31.00
774.400	-66.16	-63.24	-1.55	-1.37	-35.00	-31.15

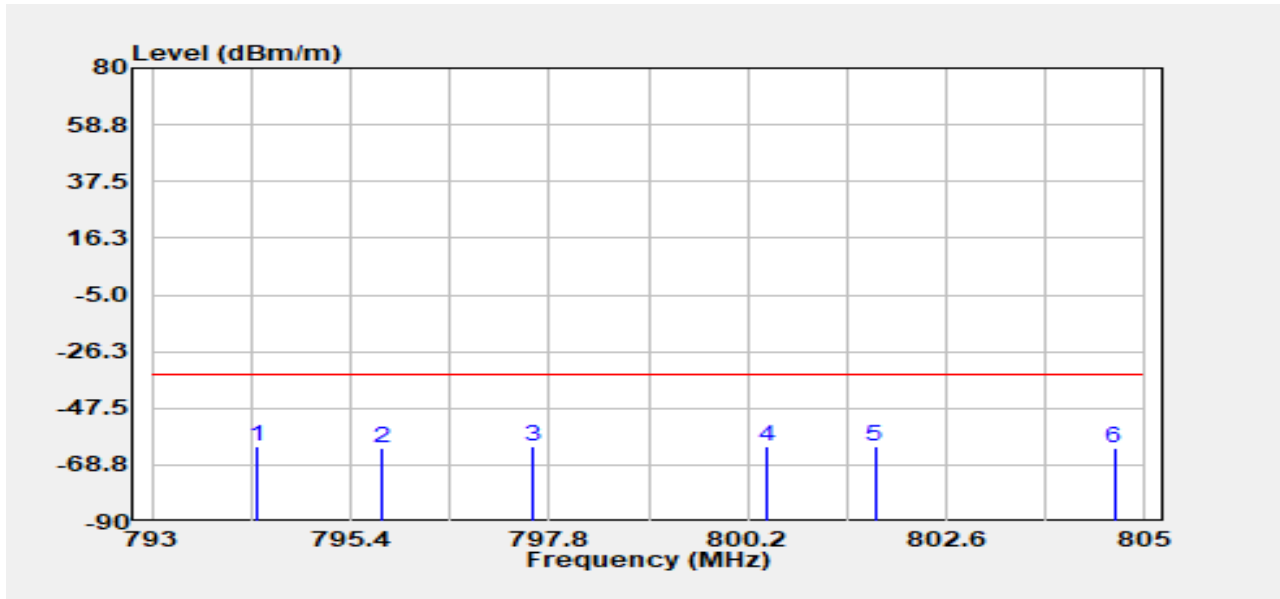
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NB IOT Band 13 (793-805MHz)

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B13 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:23.2/55
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:777.1 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
794.272	-61.83	-26.51	-1.52	-1.56	-35.00	-26.82
795.784	-62.30	-57.42	-1.49	-1.58	-35.00	-27.29
797.596	-62.08	-61.43	-1.40	-1.60	-35.00	-27.07
800.416	-61.99	-61.72	-1.27	-1.64	-35.00	-26.98
801.736	-61.79	-59.60	-1.26	-1.65	-35.00	-26.78
804.628	-62.26	-62.10	-1.22	-1.69	-35.00	-27.25

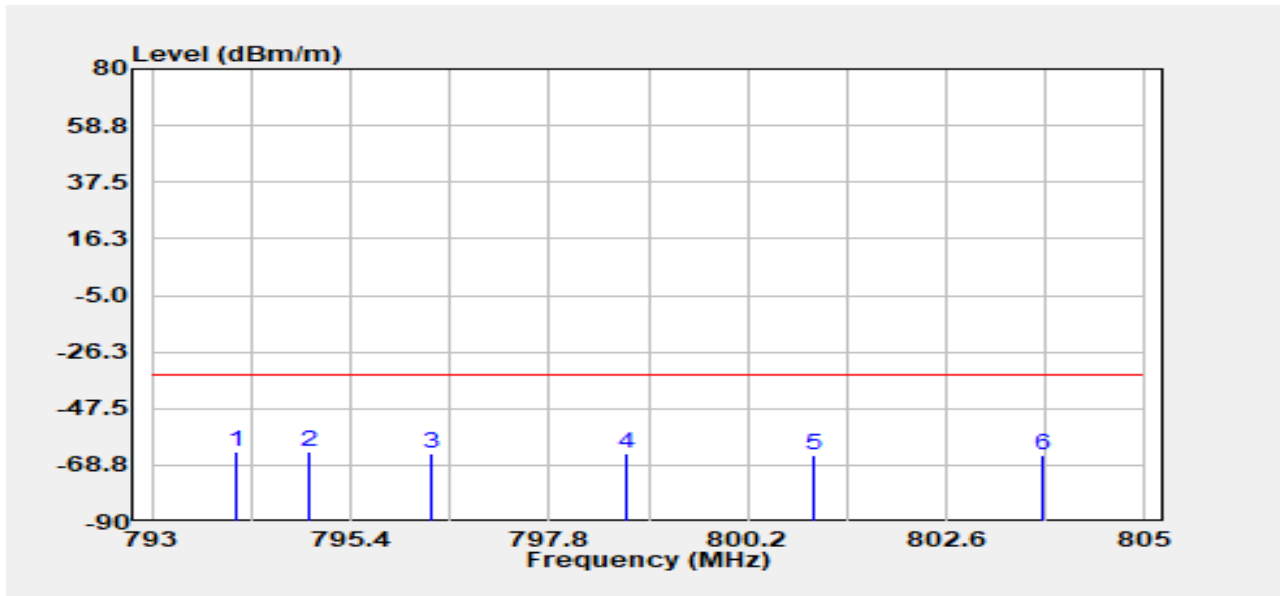
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :777.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.2/55
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



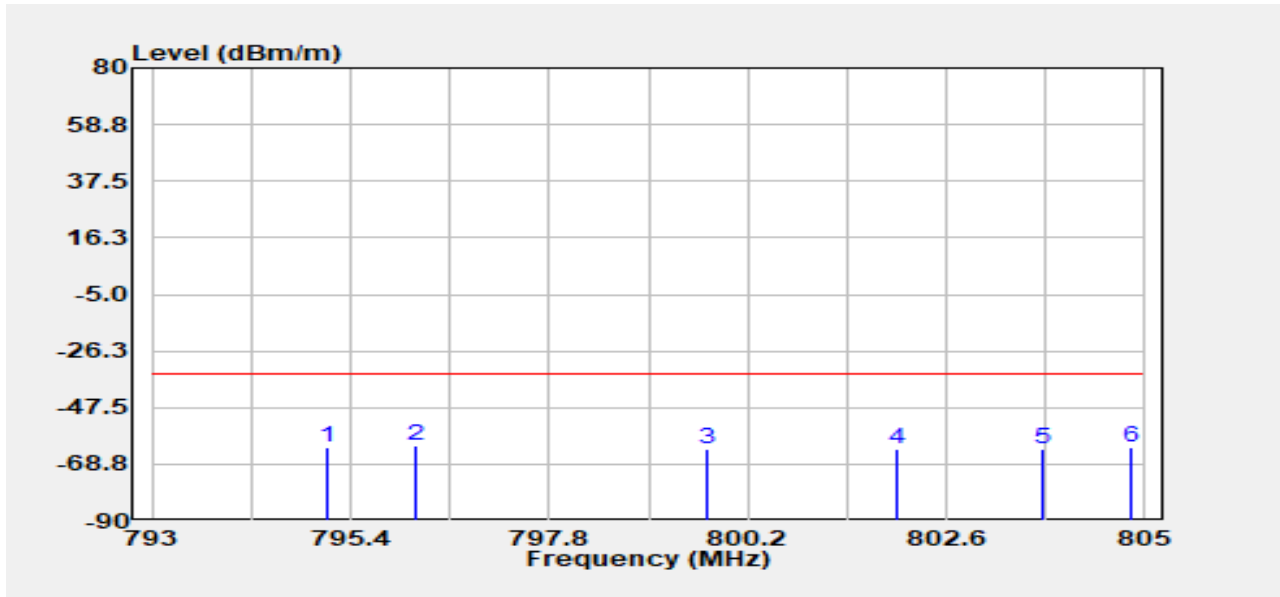
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
794.008	-63.69	-26.51	-1.52	-1.55	-35.00	-28.68
794.908	-63.92	-57.42	-1.53	-1.56	-35.00	-28.91
796.384	-64.06	-61.43	-1.46	-1.58	-35.00	-29.05
798.724	-64.60	-61.72	-1.34	-1.61	-35.00	-29.59
800.992	-64.80	-59.60	-1.27	-1.64	-35.00	-29.79
803.752	-64.84	-62.10	-1.23	-1.68	-35.00	-29.83

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B13 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Mid	Temp./Humi.	:23.2/55
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:782 MHz	Engineer	:Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
795.124	-62.69	-26.51	-1.52	-1.57	-35.00	-27.68
796.192	-61.94	-57.42	-1.47	-1.58	-35.00	-26.93
799.708	-62.90	-61.43	-1.29	-1.63	-35.00	-27.89
801.988	-62.79	-61.72	-1.26	-1.66	-35.00	-27.78
803.752	-62.90	-59.60	-1.23	-1.68	-35.00	-27.89
804.844	-62.29	-62.10	-1.22	-1.69	-35.00	-27.28

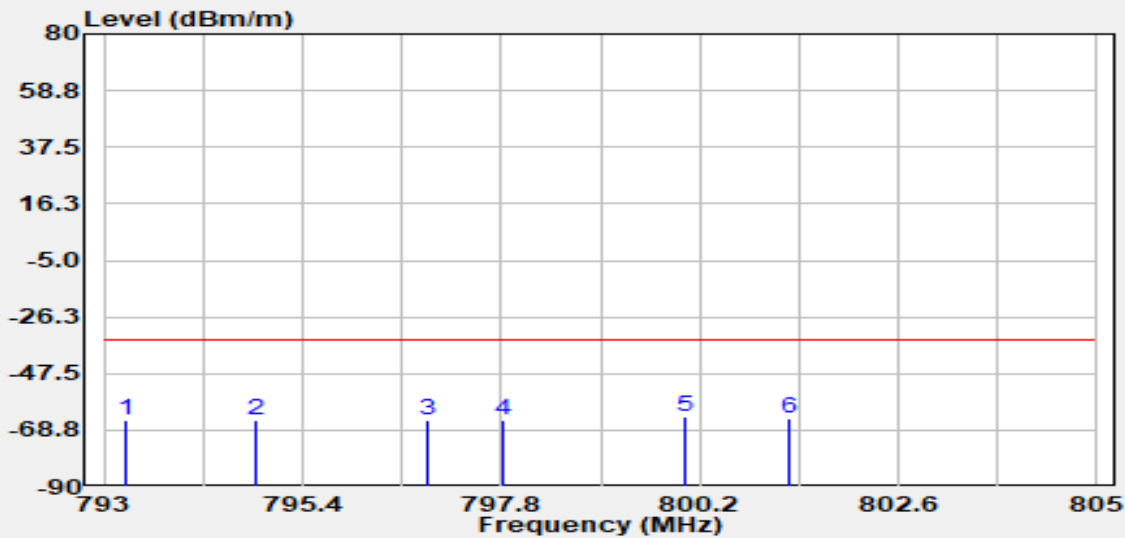
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.2/55
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.276	-64.83	-26.51	-1.52	-1.54	-35.00	-29.82
794.824	-64.73	-57.42	-1.53	-1.56	-35.00	-29.72
796.900	-64.67	-61.43	-1.43	-1.59	-35.00	-29.66
797.812	-64.84	-61.72	-1.39	-1.60	-35.00	-29.83
800.020	-63.87	-59.60	-1.28	-1.63	-35.00	-28.86
801.268	-64.17	-62.10	-1.26	-1.65	-35.00	-29.16

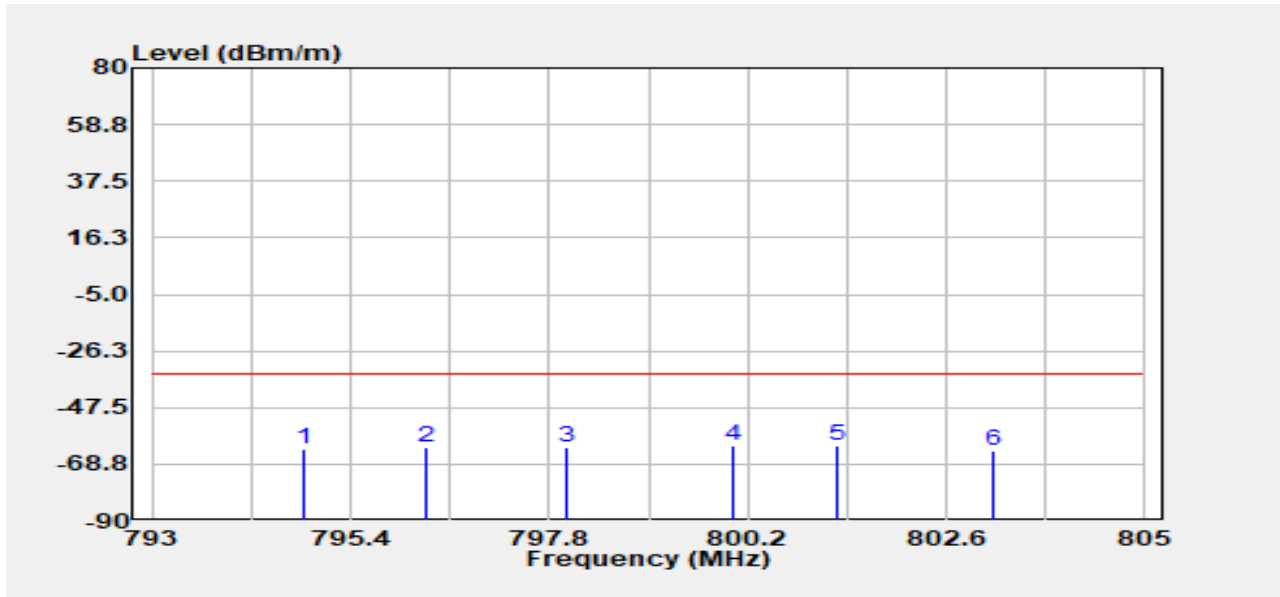
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :786.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.5/54
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.824	-62.80	-26.51	-1.53	-1.56	-35.00	-27.79
796.324	-62.15	-57.42	-1.46	-1.58	-35.00	-27.14
798.004	-62.31	-61.43	-1.38	-1.60	-35.00	-27.30
800.020	-61.82	-61.72	-1.28	-1.63	-35.00	-26.81
801.268	-62.08	-59.60	-1.26	-1.65	-35.00	-27.07
803.152	-63.57	-62.10	-1.24	-1.67	-35.00	-28.56

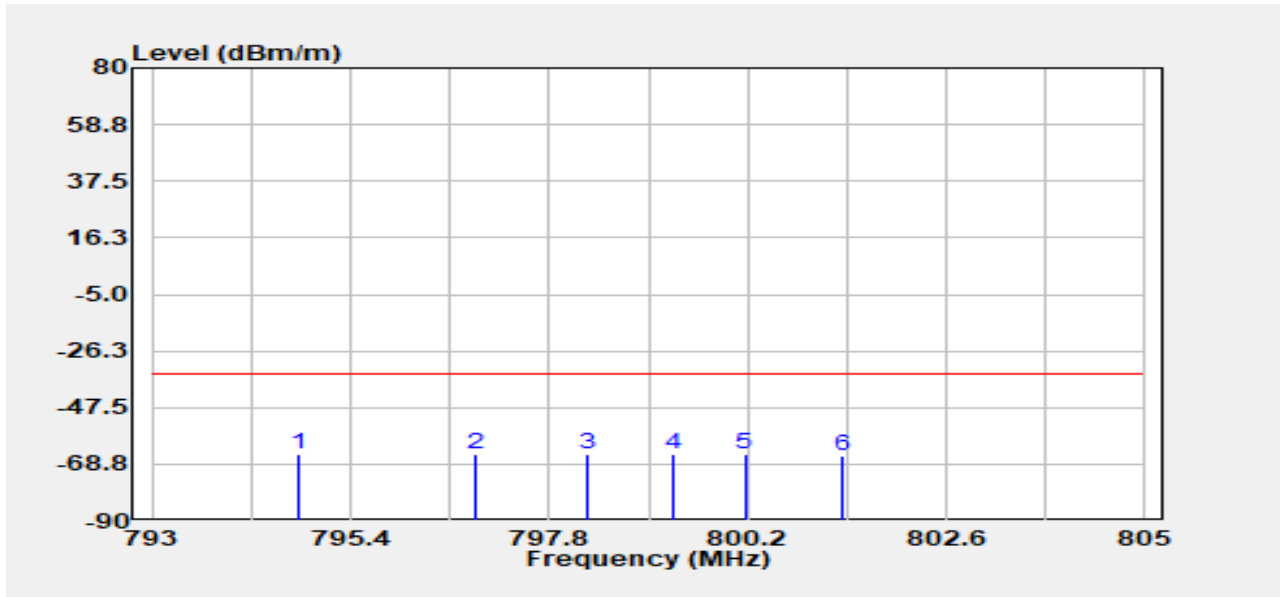
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B13 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :786.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.5/54
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.776	-64.92	-26.51	-1.53	-1.56	-35.00	-29.91
796.912	-64.71	-57.42	-1.43	-1.59	-35.00	-29.70
798.268	-65.06	-61.43	-1.37	-1.61	-35.00	-30.05
799.288	-65.19	-61.72	-1.32	-1.62	-35.00	-30.18
800.164	-65.07	-59.60	-1.28	-1.63	-35.00	-30.06
801.340	-65.39	-62.10	-1.26	-1.65	-35.00	-30.38

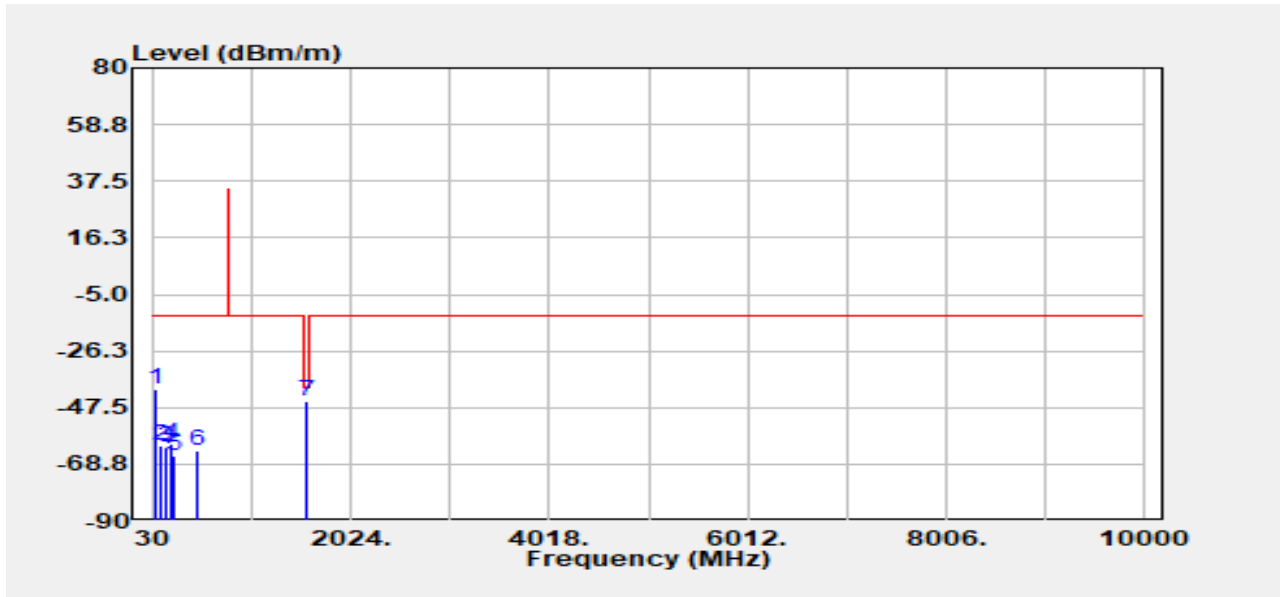
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NB IOT Band 14

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B14 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:23.6/54
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:788.1 MHz	Engineer	:Ashton Chiu



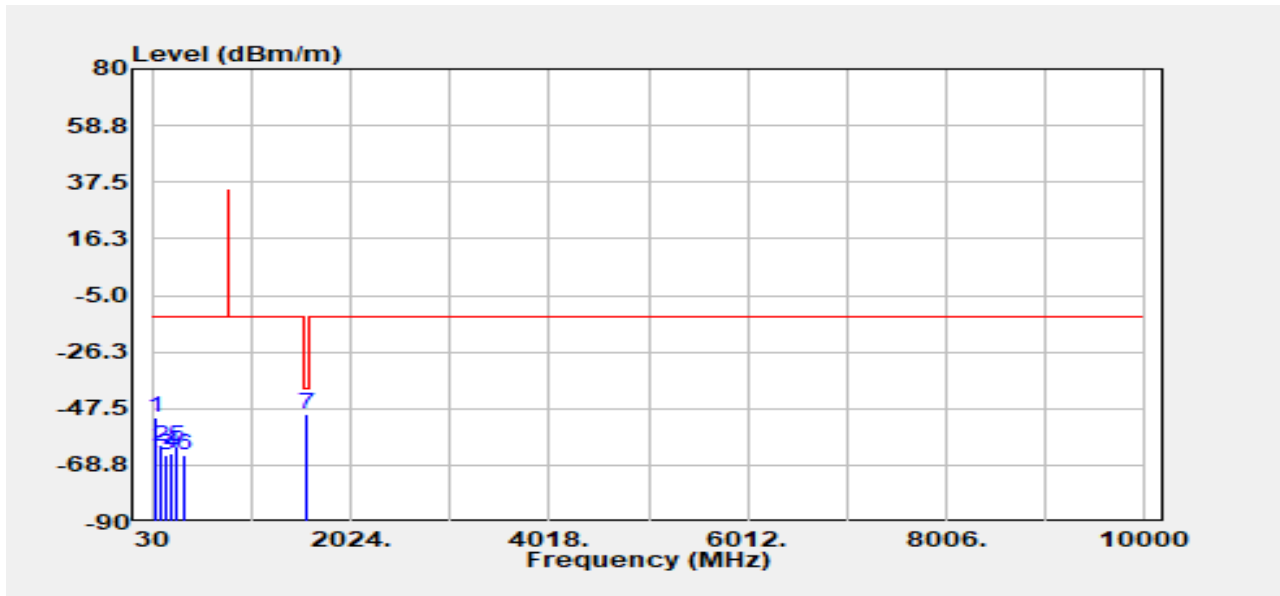
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-40.57	-24.59	-15.61	-0.37	-13.00	-27.56
122.150	-61.86	-54.35	-6.90	-0.61	-13.00	-48.85
175.500	-62.20	-56.85	-4.65	-0.70	-13.00	-49.19
224.000	-61.26	-60.66	0.24	-0.84	-13.00	-48.25
238.550	-65.47	-63.96	-0.65	-0.86	-13.00	-52.46
488.810	-63.77	-61.53	-0.66	-1.58	-13.00	-50.76
1576.200	-44.98	-49.36	9.26	-4.88	-40.00	-4.97

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B14 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :788.1 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :23.6/54
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
56.190	-50.69	-34.71	-15.61	-0.37	-13.00	-37.68
128.940	-61.71	-54.17	-6.93	-0.61	-13.00	-48.70
174.530	-65.14	-59.64	-4.80	-0.70	-13.00	-52.13
211.390	-64.24	-62.97	-0.44	-0.83	-13.00	-51.23
266.680	-61.55	-59.85	-0.76	-0.94	-13.00	-48.54
344.280	-64.68	-63.02	-0.50	-1.16	-13.00	-51.67
1576.200	-49.71	-54.09	9.26	-4.88	-40.00	-9.70

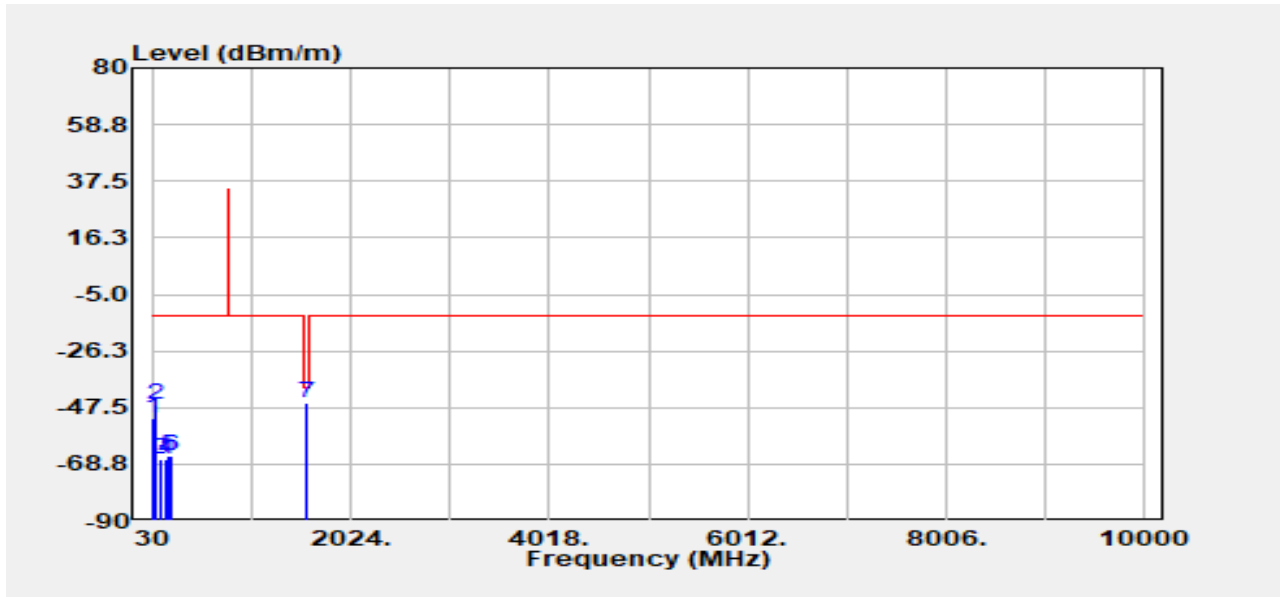
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B14 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :793 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.6/54
Antenna Pol. :Vertical
Engineer :Ashton Chiu



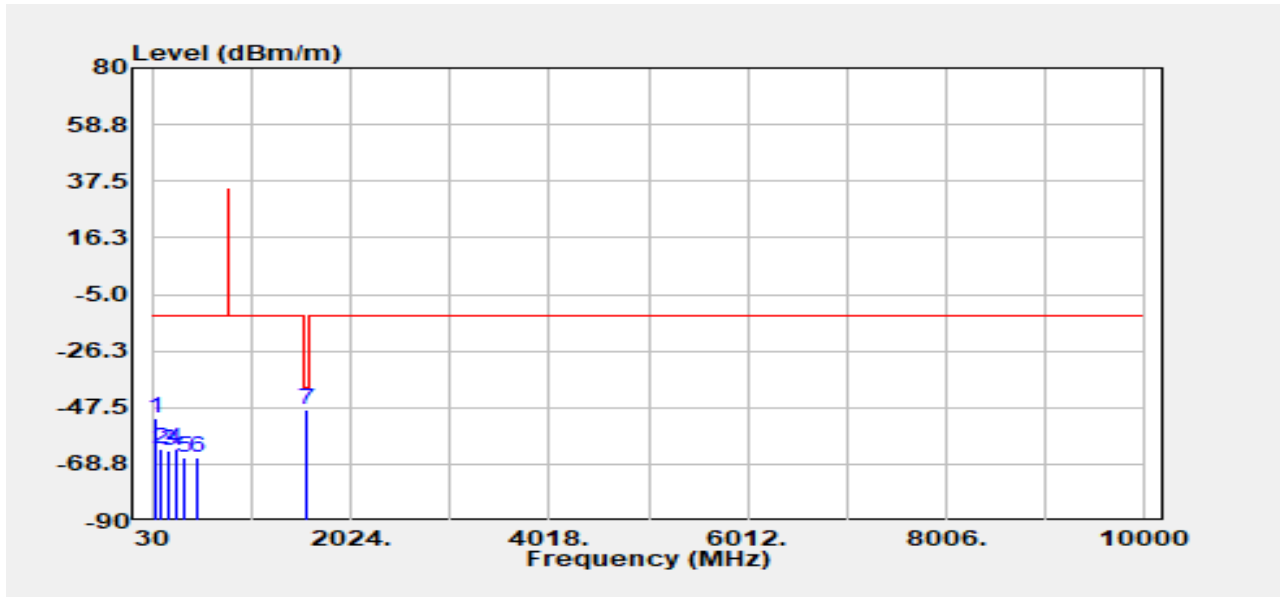
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.370	-51.47	-34.23	-16.92	-0.32	-13.00	-38.46
56.190	-46.39	-30.41	-15.61	-0.37	-13.00	-33.38
119.240	-67.13	-59.76	-6.76	-0.61	-13.00	-54.12
176.470	-67.22	-62.10	-4.41	-0.71	-13.00	-54.21
204.600	-65.88	-64.24	-0.82	-0.82	-13.00	-52.87
211.390	-65.84	-64.57	-0.44	-0.83	-13.00	-52.83
1586.000	-45.67	-50.08	9.32	-4.91	-40.00	-5.66

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B14 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Mid	Temp./Humi.	:23.6/54
EUT Pol	:E2 Plan	Antenna Pol.	:Horizontal
Test Frequency	:793 MHz	Engineer	:Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-51.70	-35.72	-15.61	-0.37	-13.00	-38.69
127.970	-62.81	-55.30	-6.90	-0.61	-13.00	-49.80
199.750	-63.96	-62.13	-1.03	-0.80	-13.00	-50.95
261.830	-63.02	-61.45	-0.65	-0.92	-13.00	-50.01
347.190	-66.55	-64.99	-0.43	-1.13	-13.00	-53.54
480.080	-66.44	-64.17	-0.82	-1.45	-13.00	-53.43
1586.000	-48.46	-52.87	9.32	-4.91	-40.00	-8.45

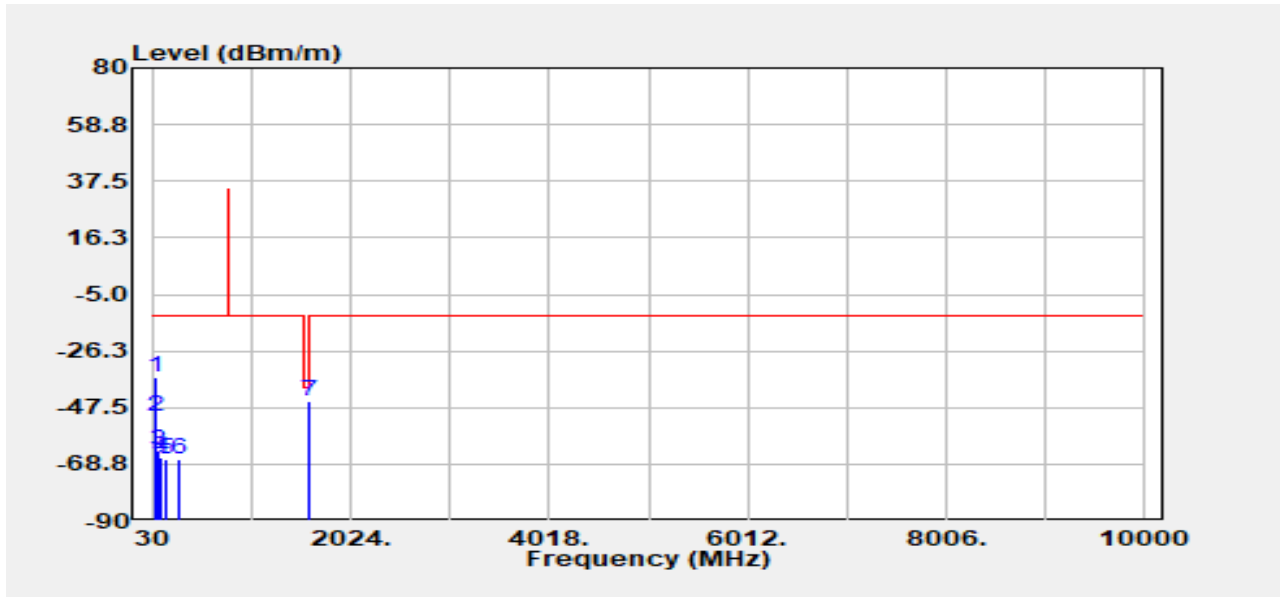
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B14 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :797.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/54
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-35.85	-19.87	-15.61	-0.37	-13.00	-22.84
67.830	-51.12	-37.77	-12.88	-0.47	-13.00	-38.11
88.200	-63.64	-57.25	-5.91	-0.48	-13.00	-50.63
119.240	-66.43	-59.06	-6.76	-0.61	-13.00	-53.42
174.530	-67.22	-61.72	-4.80	-0.70	-13.00	-54.21
292.870	-66.82	-64.84	-1.02	-0.96	-13.00	-53.81
1595.800	-45.37	-49.80	9.38	-4.95	-40.00	-5.36

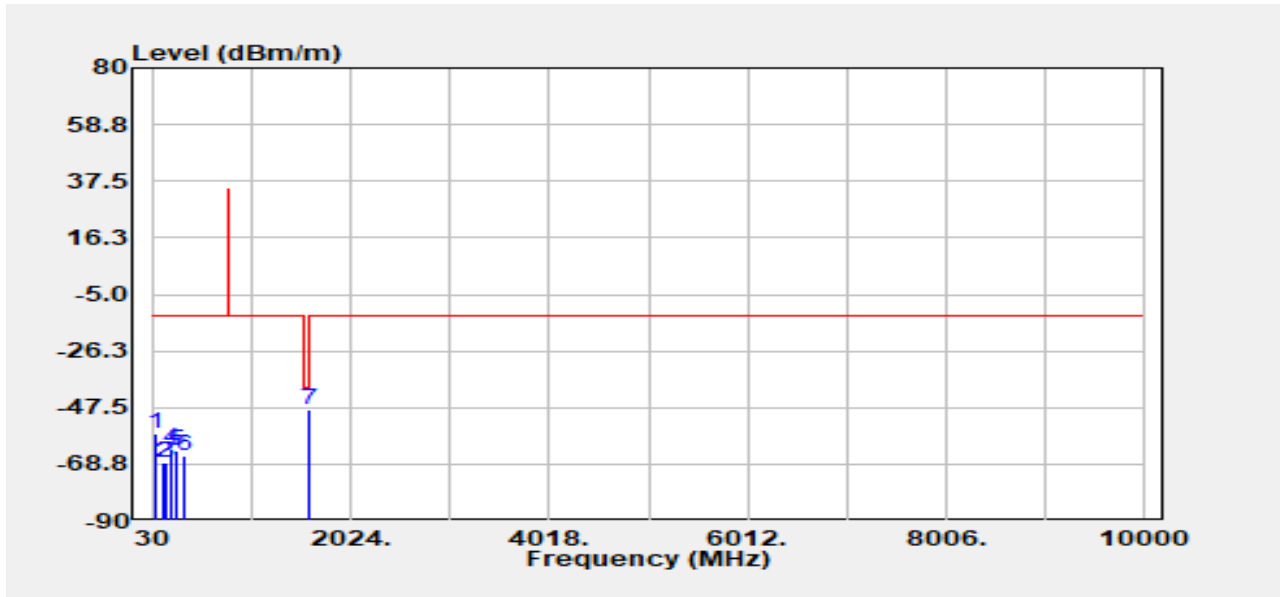
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B14 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :797.9 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/54
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.010	-57.15	-42.64	-14.09	-0.42	-13.00	-44.14
134.760	-68.33	-60.62	-7.10	-0.61	-13.00	-55.32
176.470	-68.35	-63.23	-4.41	-0.71	-13.00	-55.34
230.790	-63.29	-62.44	0.01	-0.86	-13.00	-50.28
272.500	-63.86	-61.99	-0.93	-0.94	-13.00	-50.85
348.160	-65.66	-64.14	-0.40	-1.12	-13.00	-52.65
1595.800	-48.61	-53.04	9.38	-4.95	-40.00	-8.60

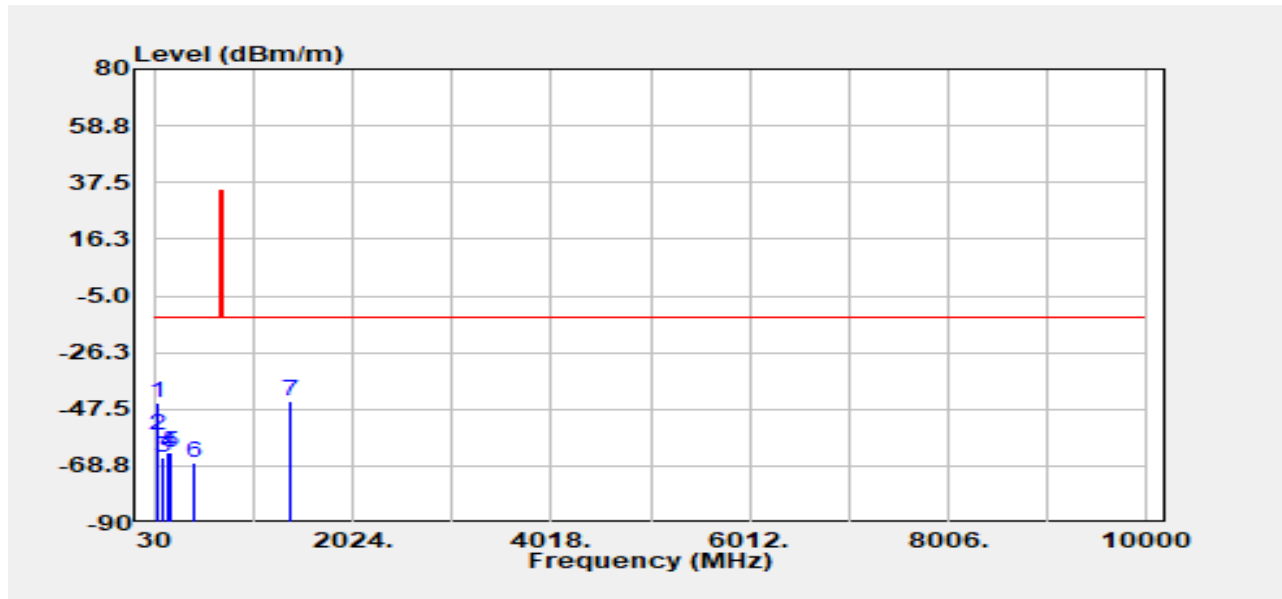
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NB IOT Band 17

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B17 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:23.8/53
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:704.2 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
55.220	-45.24	-29.16	-15.72	-0.36	-13.00	-32.23
67.830	-57.04	-43.69	-12.88	-0.47	-13.00	-44.03
115.360	-65.70	-58.43	-6.67	-0.60	-13.00	-52.69
176.470	-63.61	-58.49	-4.41	-0.71	-13.00	-50.60
205.570	-63.44	-61.85	-0.77	-0.82	-13.00	-50.43
423.820	-67.23	-65.26	-0.75	-1.22	-13.00	-54.22
1408.400	-44.22	-47.50	7.67	-4.39	-13.00	-31.21

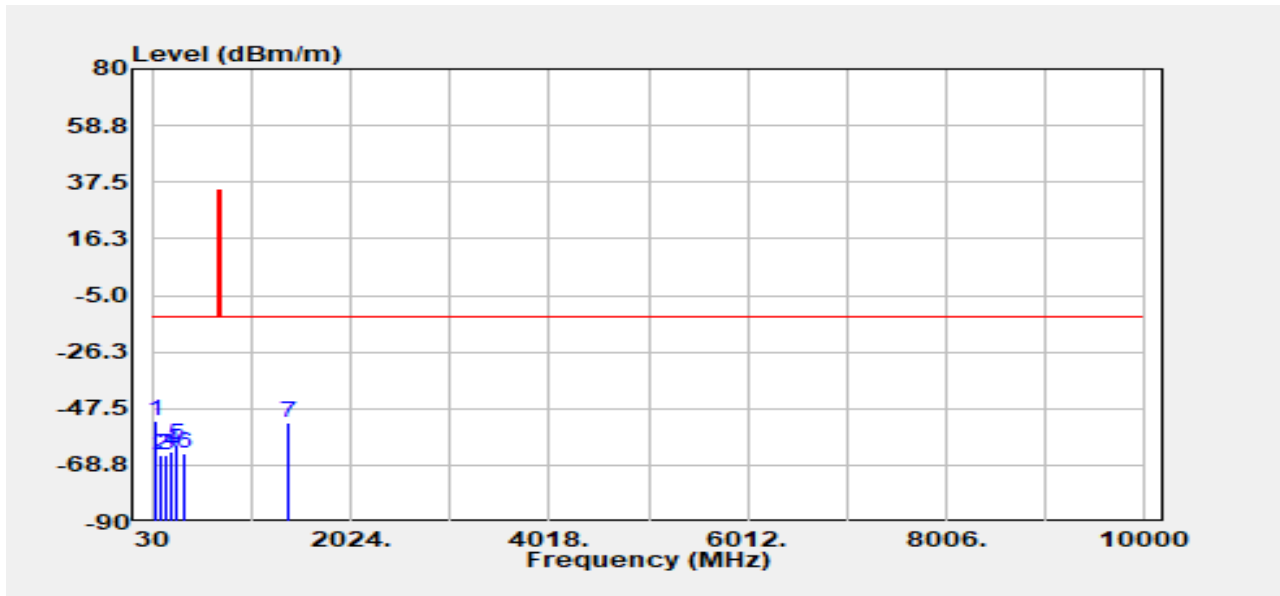
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B17 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :704.2 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/53
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.010	-51.90	-37.39	-14.09	-0.42	-13.00	-38.89
127.970	-64.82	-57.31	-6.90	-0.61	-13.00	-51.81
174.530	-65.10	-59.60	-4.80	-0.70	-13.00	-52.09
232.730	-63.43	-62.38	-0.19	-0.86	-13.00	-50.42
269.590	-61.38	-59.54	-0.89	-0.95	-13.00	-48.37
344.280	-64.62	-62.96	-0.50	-1.16	-13.00	-51.61
1408.400	-52.81	-56.09	7.67	-4.39	-13.00	-39.80

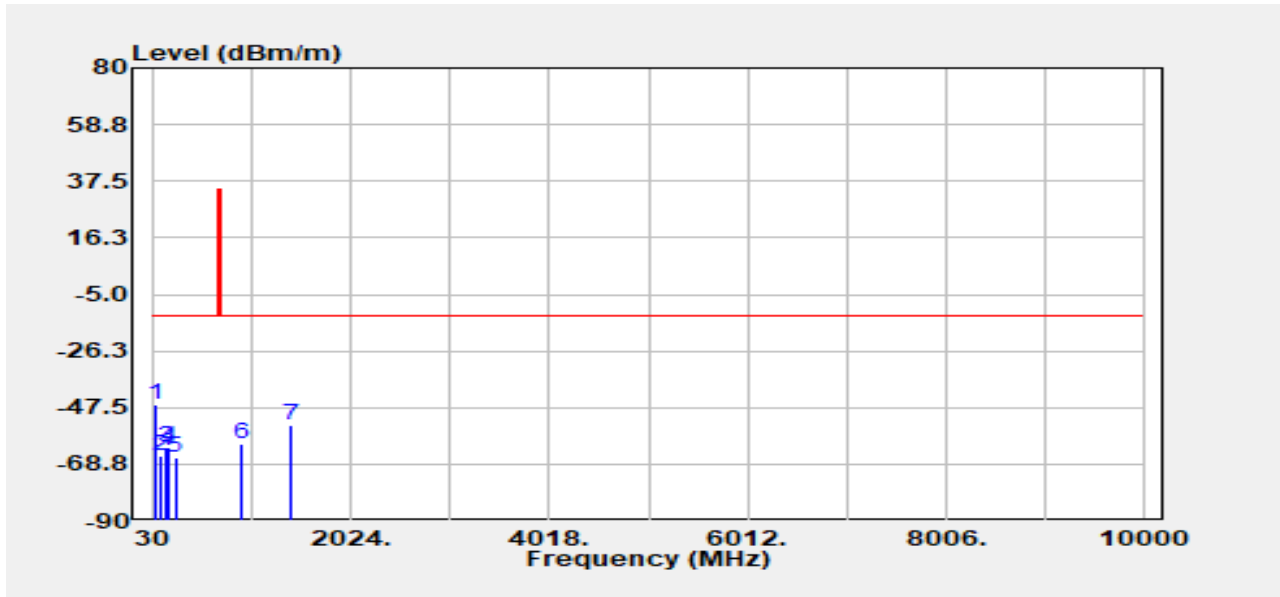
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B17 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :710 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/53
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-46.15	-30.07	-15.72	-0.36	-13.00	-33.14
126.030	-65.86	-58.41	-6.84	-0.61	-13.00	-52.85
180.350	-62.48	-57.99	-3.75	-0.74	-13.00	-49.47
205.570	-62.27	-60.68	-0.77	-0.82	-13.00	-49.26
261.830	-66.38	-64.81	-0.65	-0.92	-13.00	-53.37
935.980	-61.41	-58.23	-1.43	-1.75	-13.00	-48.40
1420.000	-54.36	-57.69	7.76	-4.43	-13.00	-41.35

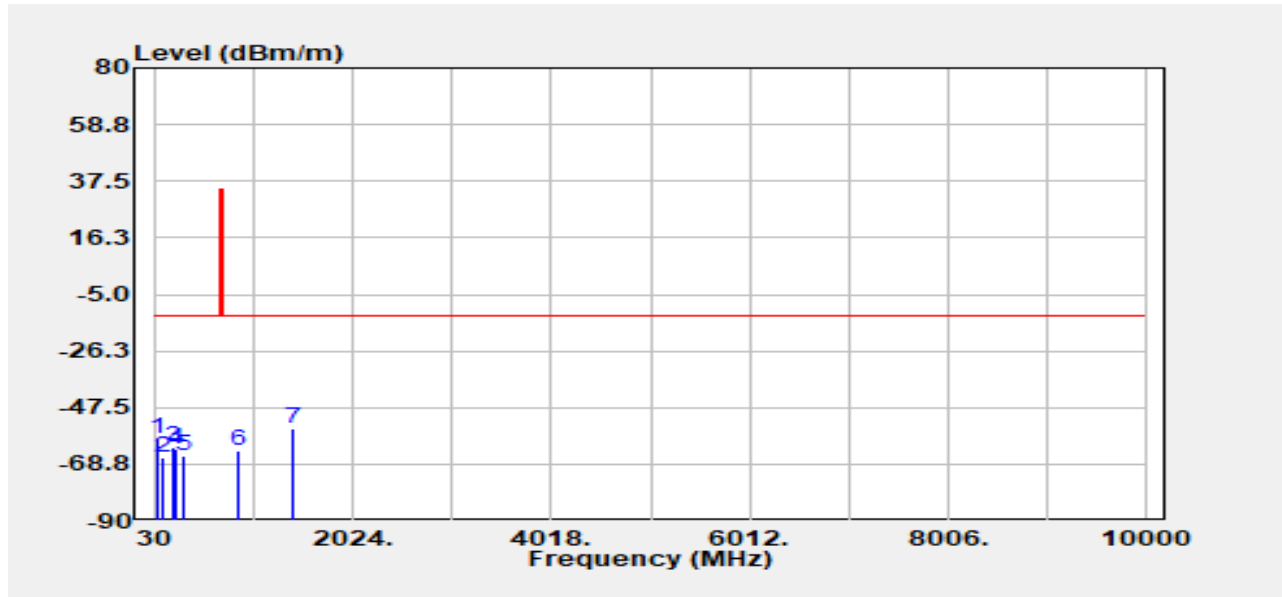
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B17 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :710 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/53
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-59.30	-44.28	-14.61	-0.41	-13.00	-46.29
128.940	-65.98	-58.44	-6.93	-0.61	-13.00	-52.97
232.730	-62.23	-61.18	-0.19	-0.86	-13.00	-49.22
259.890	-63.04	-61.49	-0.64	-0.91	-13.00	-50.03
336.520	-65.39	-63.52	-0.70	-1.17	-13.00	-52.38
879.720	-63.98	-61.25	-1.06	-1.67	-13.00	-50.97
1420.000	-55.07	-58.40	7.76	-4.43	-13.00	-42.06

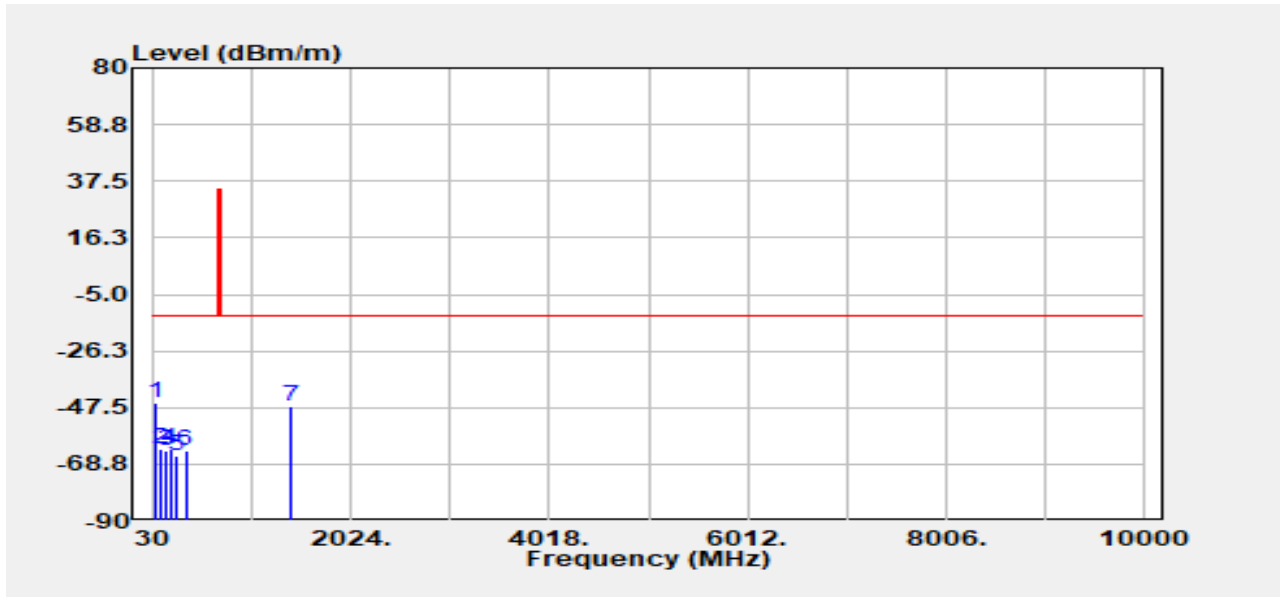
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B17 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :715.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/53
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
58.130	-46.05	-30.55	-15.12	-0.38	-13.00	-33.04
117.300	-62.80	-55.44	-6.76	-0.60	-13.00	-49.79
175.500	-63.62	-58.27	-4.65	-0.70	-13.00	-50.61
209.450	-62.93	-61.57	-0.53	-0.83	-13.00	-49.92
285.110	-65.92	-63.95	-1.04	-0.93	-13.00	-52.91
366.590	-63.68	-62.17	-0.52	-0.99	-13.00	-50.67
1431.600	-46.94	-50.32	7.85	-4.47	-13.00	-33.93

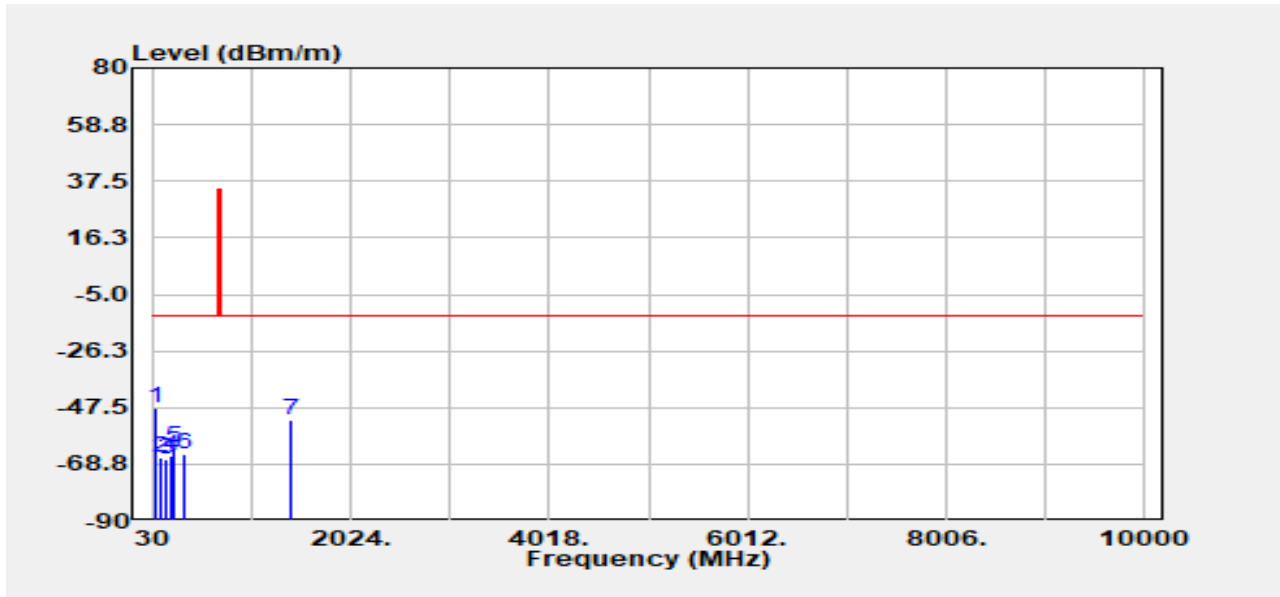
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B17 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :715.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :23.8/53
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.160	-47.40	-31.72	-15.30	-0.38	-13.00	-34.39
128.940	-66.28	-58.74	-6.93	-0.61	-13.00	-53.27
174.530	-66.80	-61.30	-4.80	-0.70	-13.00	-53.79
227.880	-65.40	-64.73	0.18	-0.85	-13.00	-52.39
260.860	-62.49	-60.92	-0.65	-0.92	-13.00	-49.48
351.070	-64.98	-63.51	-0.38	-1.09	-13.00	-51.97
1431.600	-52.39	-55.77	7.85	-4.47	-13.00	-39.38

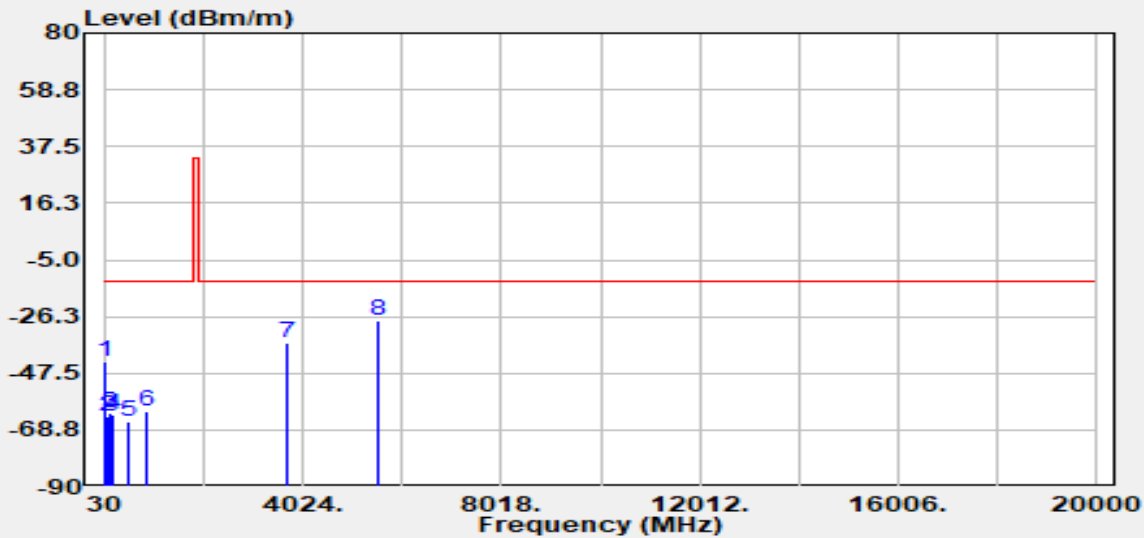
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NB IOT Band 25

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B25 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:24.1/53
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:1850.2 MHz	Engineer	:Ashton Chiu



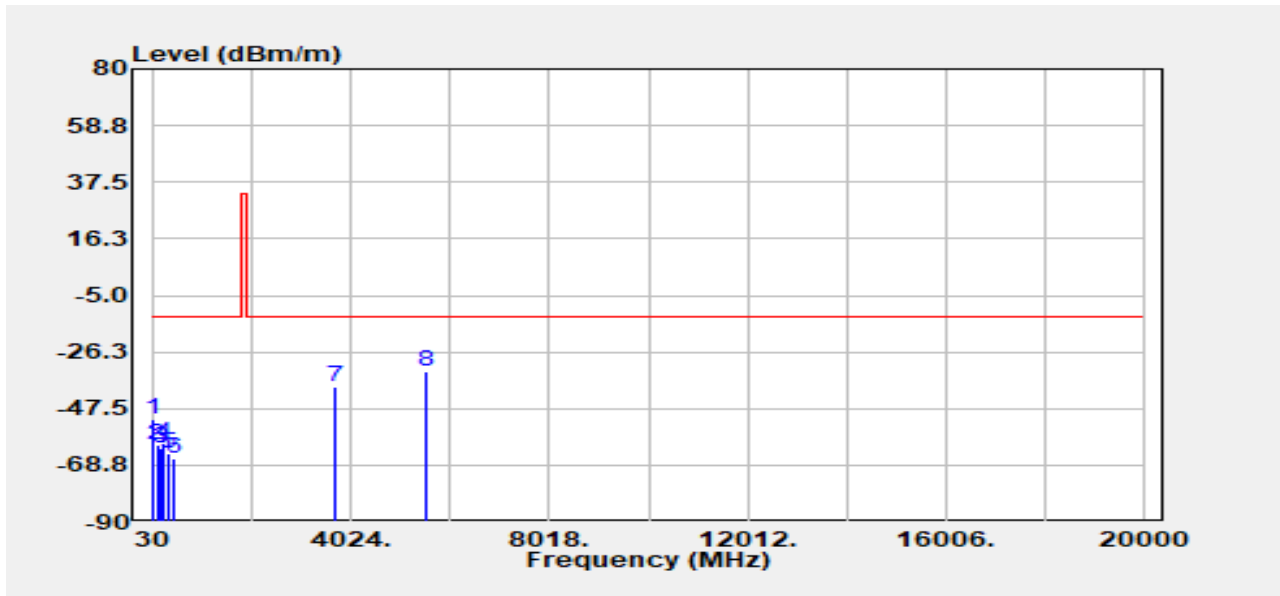
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.160	-43.33	-27.65	-15.30	-0.38	-13.00	-30.32
118.270	-63.57	-56.25	-6.71	-0.61	-13.00	-50.56
175.500	-62.23	-56.88	-4.65	-0.70	-13.00	-49.22
203.630	-62.76	-61.09	-0.86	-0.81	-13.00	-49.75
504.330	-65.64	-63.54	-0.76	-1.34	-13.00	-52.63
898.150	-61.79	-58.82	-1.07	-1.90	-13.00	-48.78
3700.400	-35.99	-31.68	12.30	-7.99	-13.00	-22.98
5550.600	-27.86	-23.49	12.86	-8.43	-13.00	-14.85

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Report Number :E2/2020/B0031
Operation Mode :NB IoT B25 BPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :1850.2 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.1/53
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.010	-51.45	-36.94	-14.09	-0.42	-13.00	-38.44
128.940	-61.15	-53.61	-6.93	-0.61	-13.00	-48.14
226.910	-62.66	-62.03	0.22	-0.85	-13.00	-49.65
257.950	-60.33	-58.70	-0.71	-0.92	-13.00	-47.32
347.190	-64.51	-62.95	-0.43	-1.13	-13.00	-51.50
491.720	-66.12	-63.87	-0.68	-1.57	-13.00	-53.11
3700.400	-39.38	-43.69	12.30	-7.99	-13.00	-26.37
5550.600	-33.39	-37.82	12.86	-8.43	-13.00	-20.38

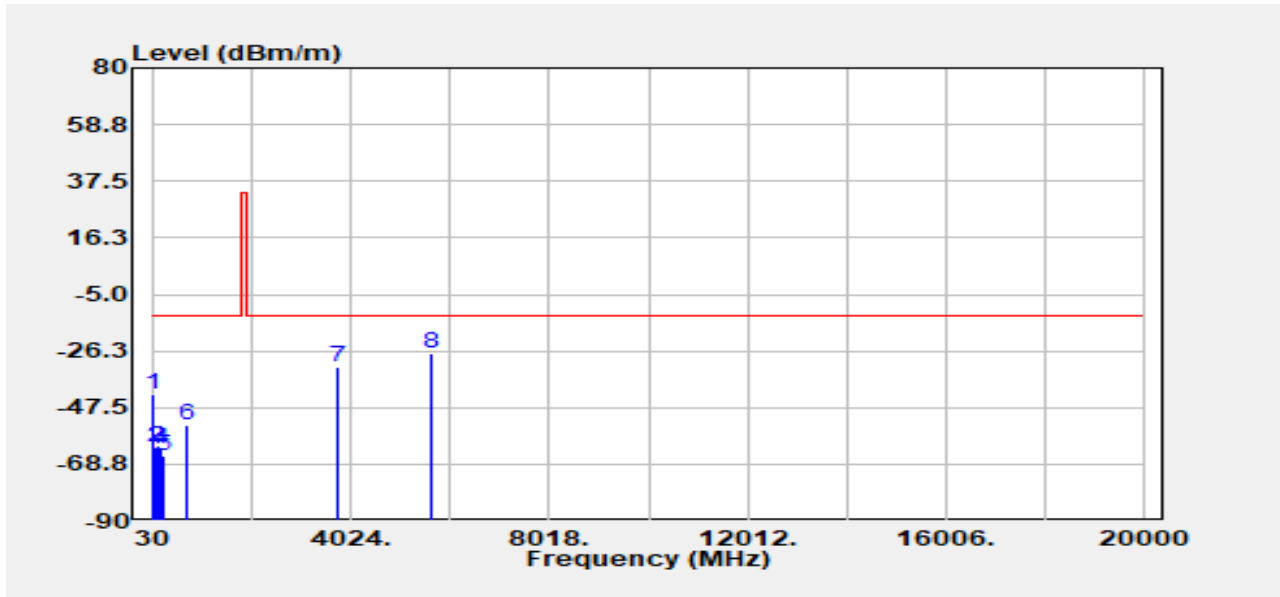
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B25 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1882.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.1/53
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-42.63	-26.55	-15.72	-0.36	-13.00	-29.62
122.150	-62.39	-54.88	-6.90	-0.61	-13.00	-49.38
174.530	-62.37	-56.87	-4.80	-0.70	-13.00	-49.36
207.510	-62.87	-61.40	-0.65	-0.82	-13.00	-49.86
262.800	-65.88	-64.30	-0.66	-0.92	-13.00	-52.87
747.800	-54.20	-50.98	-1.52	-1.70	-13.00	-41.19
3765.000	-32.43	-36.74	12.30	-7.99	-13.00	-19.42
5647.500	-27.34	-32.00	12.90	-8.24	-13.00	-14.33

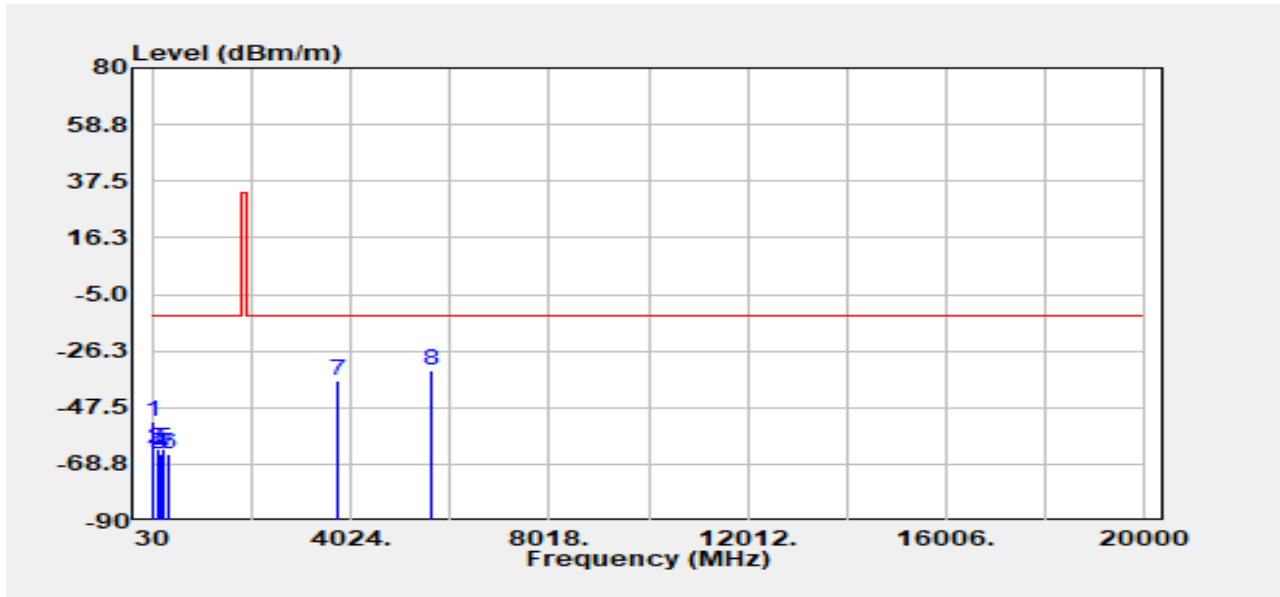
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B25 BPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1882.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.1/53
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.010	-52.58	-38.07	-14.09	-0.42	-13.00	-39.57
127.970	-63.13	-55.62	-6.90	-0.61	-13.00	-50.12
176.470	-65.20	-60.08	-4.41	-0.71	-13.00	-52.19
224.000	-64.87	-64.27	0.24	-0.84	-13.00	-51.86
265.710	-63.28	-61.63	-0.71	-0.94	-13.00	-50.27
348.160	-65.20	-63.68	-0.40	-1.12	-13.00	-52.19
3765.000	-37.71	-42.26	12.40	-7.85	-13.00	-24.70
5647.500	-33.51	-37.61	13.00	-8.90	-13.00	-20.50

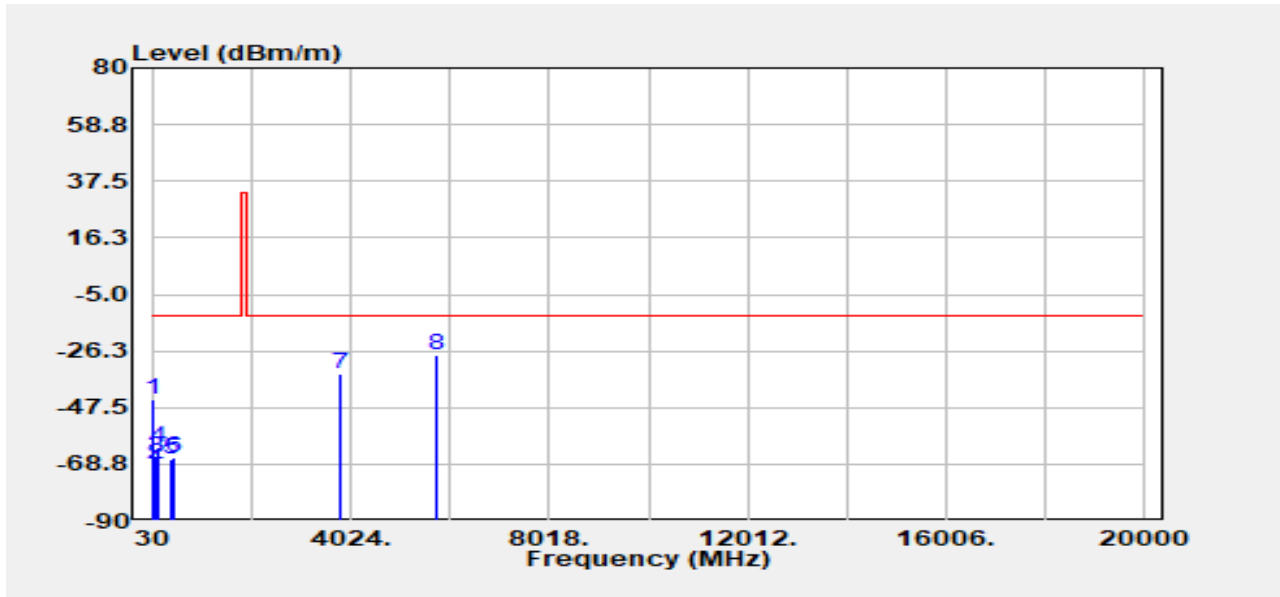
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B25 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :1914.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.1/53
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-44.75	-28.67	-15.72	-0.36	-13.00	-31.74
89.170	-69.02	-62.79	-5.75	-0.48	-13.00	-56.01
122.150	-65.96	-58.45	-6.90	-0.61	-13.00	-52.95
176.470	-62.73	-57.61	-4.41	-0.71	-13.00	-49.72
427.700	-67.22	-65.22	-0.82	-1.18	-13.00	-54.21
489.780	-66.20	-63.96	-0.64	-1.60	-13.00	-53.19
3829.600	-34.92	-38.37	12.36	-8.91	-13.00	-21.91
5744.400	-27.55	-31.16	12.80	-9.19	-13.00	-14.54

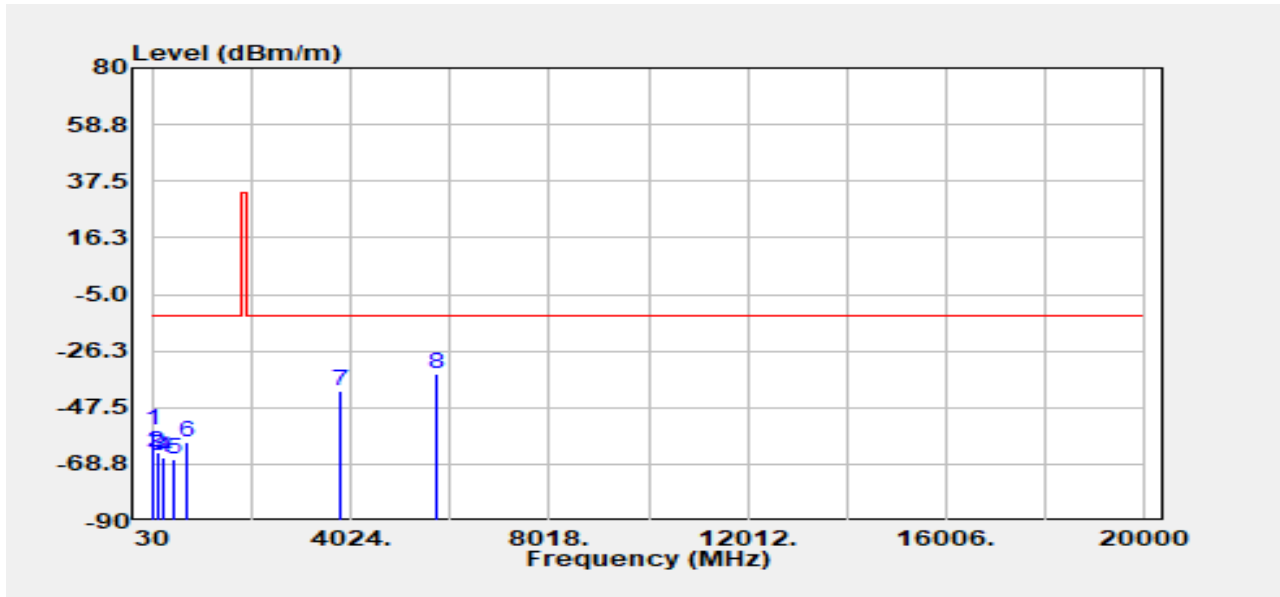
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B25 BPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :1914.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.1/53
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-56.28	-41.26	-14.61	-0.41	-13.00	-43.27
128.940	-64.03	-56.49	-6.93	-0.61	-13.00	-51.02
175.500	-65.38	-60.03	-4.65	-0.70	-13.00	-52.37
266.680	-65.94	-64.24	-0.76	-0.94	-13.00	-52.93
480.080	-66.73	-64.46	-0.82	-1.45	-13.00	-53.72
747.800	-60.61	-57.39	-1.52	-1.70	-13.00	-47.60
3829.600	-41.15	-44.60	12.36	-8.91	-13.00	-28.14
5744.400	-34.71	-38.32	12.80	-9.19	-13.00	-21.70

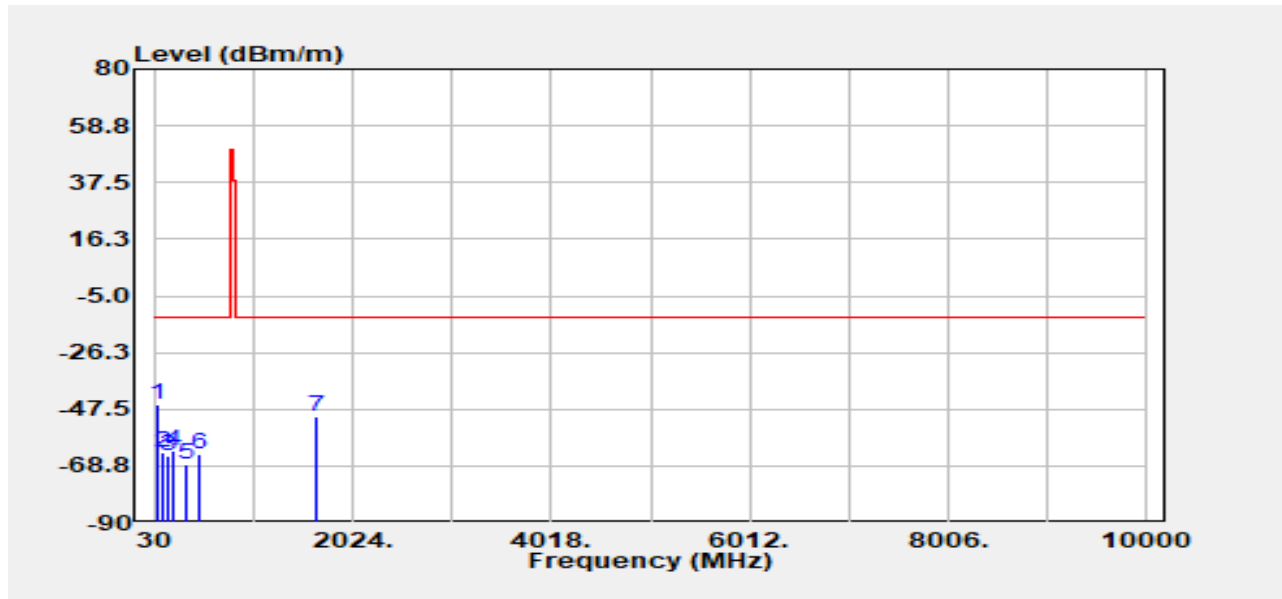
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NB IOT Band 26

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT B26 QPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:24.4/52
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:824.2 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
56.190	-45.66	-29.68	-15.61	-0.37	-13.00	-32.65
118.270	-63.99	-56.67	-6.71	-0.61	-13.00	-50.98
175.500	-65.20	-59.85	-4.65	-0.70	-13.00	-52.19
222.060	-63.21	-62.51	0.13	-0.83	-13.00	-50.20
359.800	-68.05	-66.55	-0.51	-0.99	-13.00	-55.04
488.810	-64.66	-62.42	-0.66	-1.58	-13.00	-51.65
1648.400	-49.95	-54.20	9.50	-5.25	-13.00	-36.94

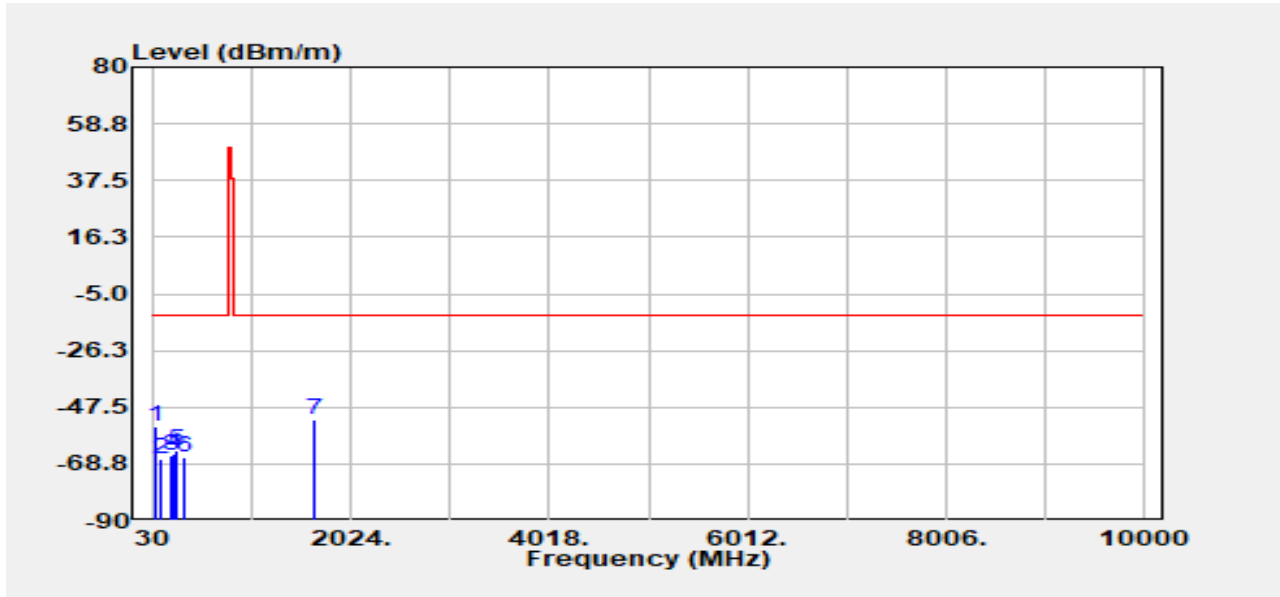
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B26 QPSK
Test Mode :TX CH Low
EUT Pol :E2 Plan
Test Frequency :824.2 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.4/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.010	-54.82	-40.31	-14.09	-0.42	-13.00	-41.81
123.120	-67.11	-59.67	-6.83	-0.61	-13.00	-54.10
232.730	-65.53	-64.48	-0.19	-0.86	-13.00	-52.52
256.980	-65.14	-63.47	-0.74	-0.93	-13.00	-52.13
268.620	-63.98	-62.18	-0.85	-0.95	-13.00	-50.97
344.280	-65.96	-64.30	-0.50	-1.16	-13.00	-52.95
1648.400	-52.15	-56.40	9.50	-5.25	-13.00	-39.14

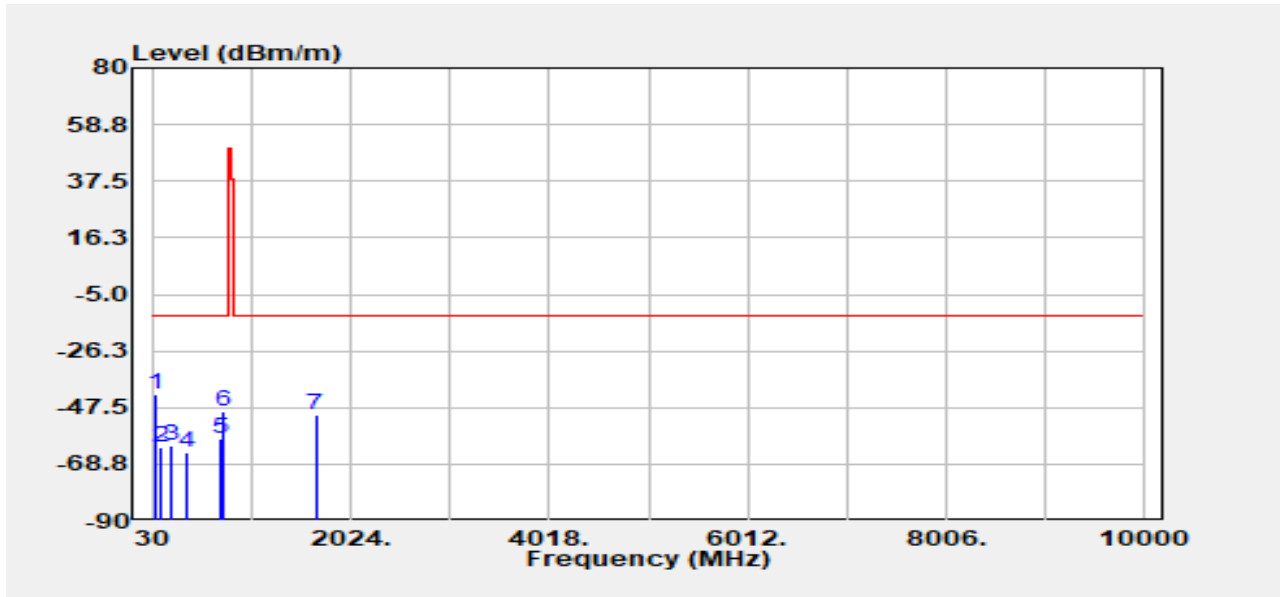
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B26 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.4/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-42.76	-26.78	-15.61	-0.37	-13.00	-29.75
115.360	-62.10	-54.83	-6.67	-0.60	-13.00	-49.09
224.970	-61.91	-61.37	0.30	-0.84	-13.00	-48.90
373.380	-64.43	-62.80	-0.57	-1.06	-13.00	-51.42
711.910	-59.48	-56.86	-1.09	-1.53	-13.00	-46.47
740.040	-48.77	-45.55	-1.36	-1.86	-13.00	-35.76
1673.000	-50.25	-54.58	9.55	-5.22	-13.00	-37.24

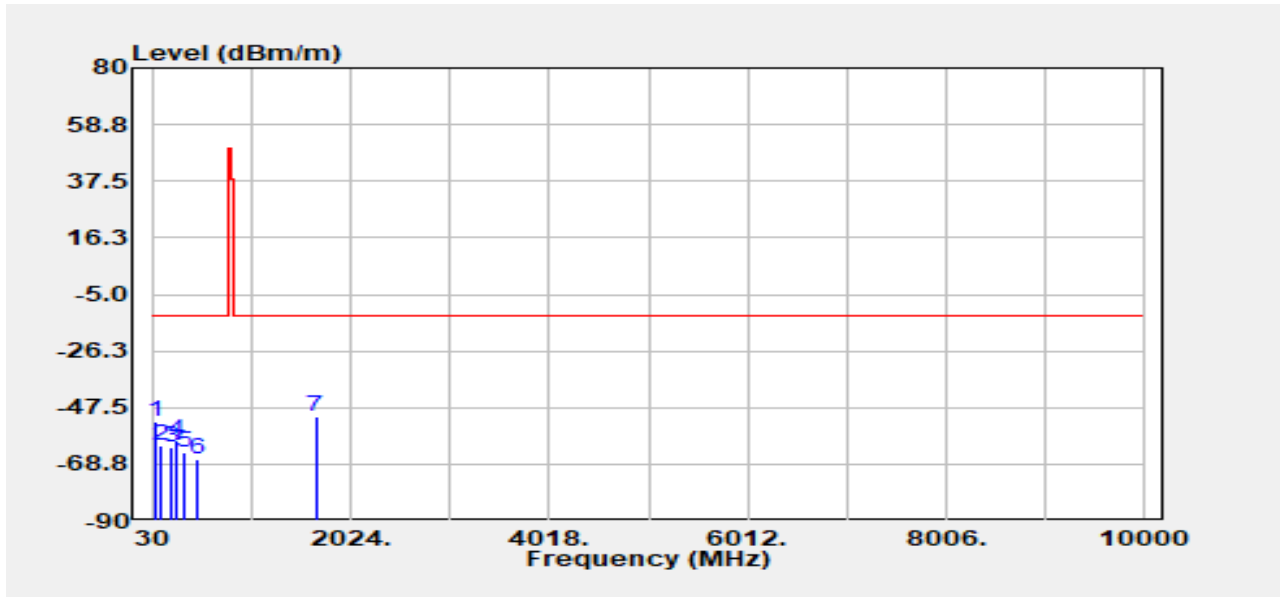
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B26 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.5 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.4/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.010	-52.79	-38.28	-14.09	-0.42	-13.00	-39.78
128.940	-61.66	-54.12	-6.93	-0.61	-13.00	-48.65
230.790	-62.53	-61.68	0.01	-0.86	-13.00	-49.52
268.620	-60.11	-58.31	-0.85	-0.95	-13.00	-47.10
345.250	-64.52	-62.90	-0.47	-1.15	-13.00	-51.51
476.200	-66.71	-64.48	-0.81	-1.42	-13.00	-53.70
1673.000	-51.04	-55.37	9.55	-5.22	-13.00	-38.03

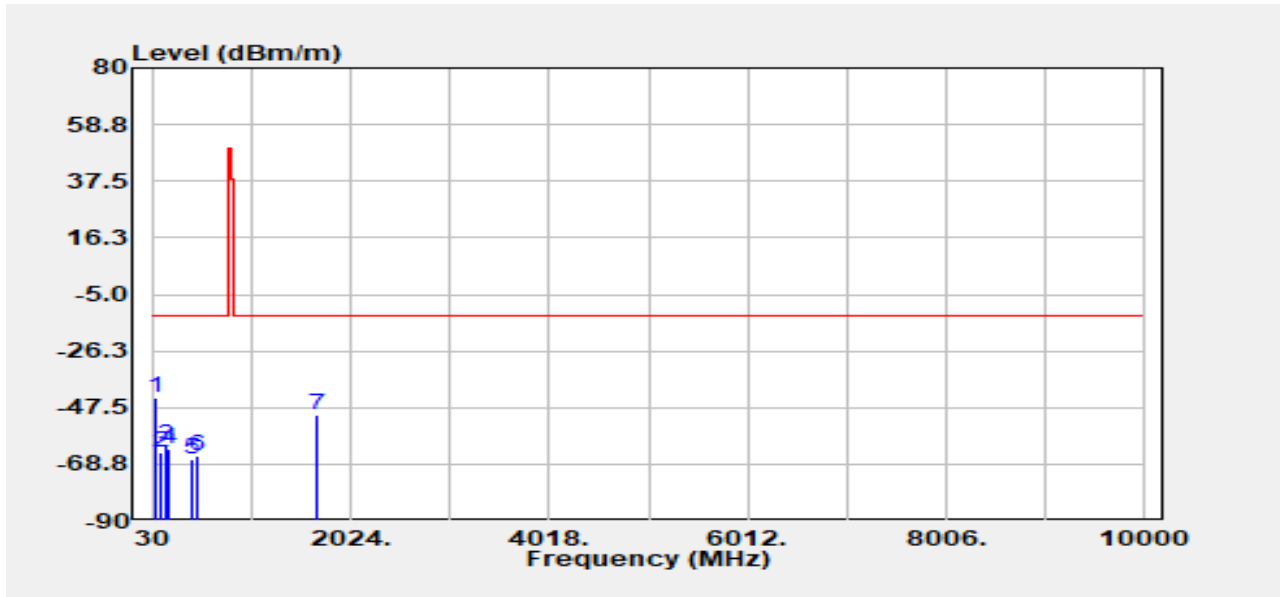
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B26 QPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :848.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.4/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-43.87	-27.79	-15.72	-0.36	-13.00	-30.86
112.450	-64.15	-56.98	-6.57	-0.60	-13.00	-51.14
175.500	-61.89	-56.54	-4.65	-0.70	-13.00	-48.88
198.780	-63.22	-61.33	-1.09	-0.80	-13.00	-50.21
437.400	-66.94	-64.85	-0.97	-1.12	-13.00	-53.93
486.870	-65.73	-63.48	-0.70	-1.55	-13.00	-52.72
1697.600	-50.50	-54.92	9.60	-5.18	-13.00	-37.49

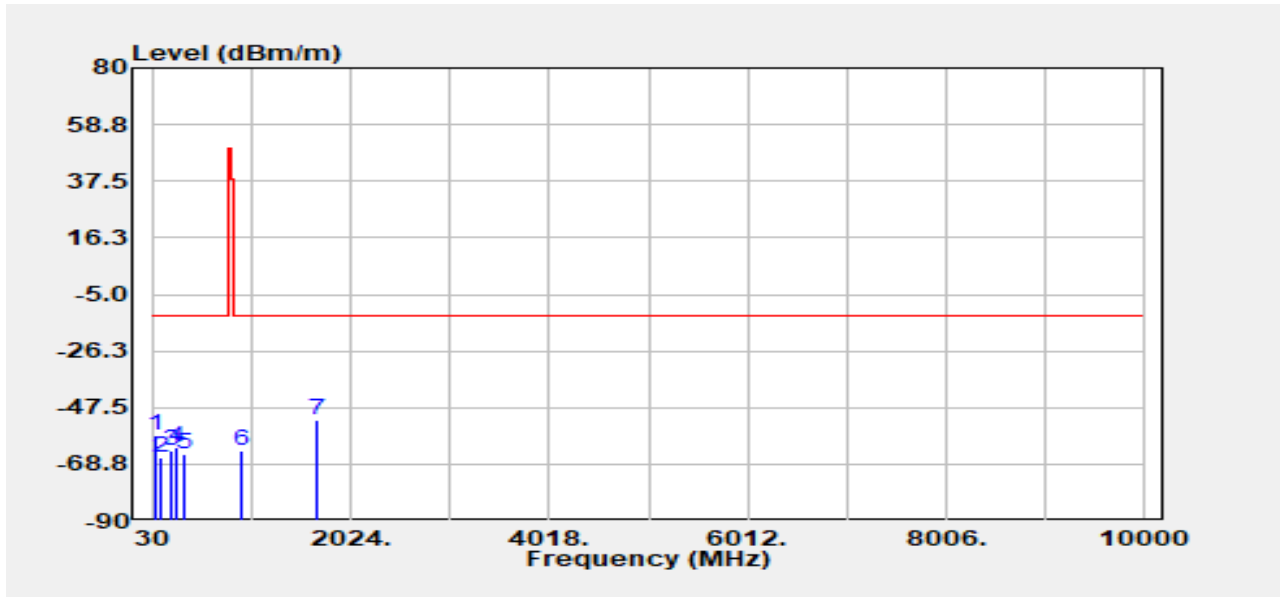
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Report Number :E2/2020/B0031
Operation Mode :NB IoT B26 QPSK
Test Mode :TX CH High
EUT Pol :E2 Plan
Test Frequency :848.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-15
Temp./Humi. :24.4/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.980	-57.86	-43.49	-13.95	-0.42	-13.00	-44.85
128.940	-66.04	-58.50	-6.93	-0.61	-13.00	-53.03
232.730	-63.77	-62.72	-0.19	-0.86	-13.00	-50.76
268.620	-62.15	-60.35	-0.85	-0.95	-13.00	-49.14
348.160	-65.01	-63.49	-0.40	-1.12	-13.00	-52.00
927.250	-64.01	-60.87	-1.40	-1.74	-13.00	-51.00
1697.600	-52.21	-56.63	9.60	-5.18	-13.00	-39.20

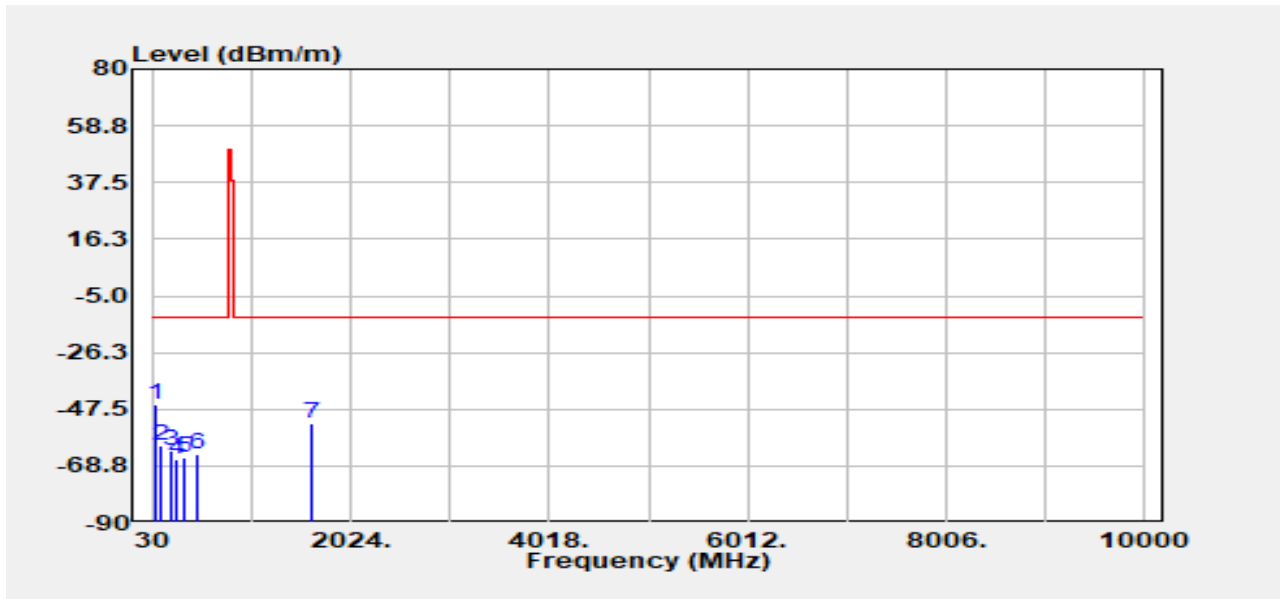
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NB IOT Band 26 (Part 90s)

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT Part 90 B26 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:24.7/52
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:814.2 MHz	Engineer	:Ashton Chiu



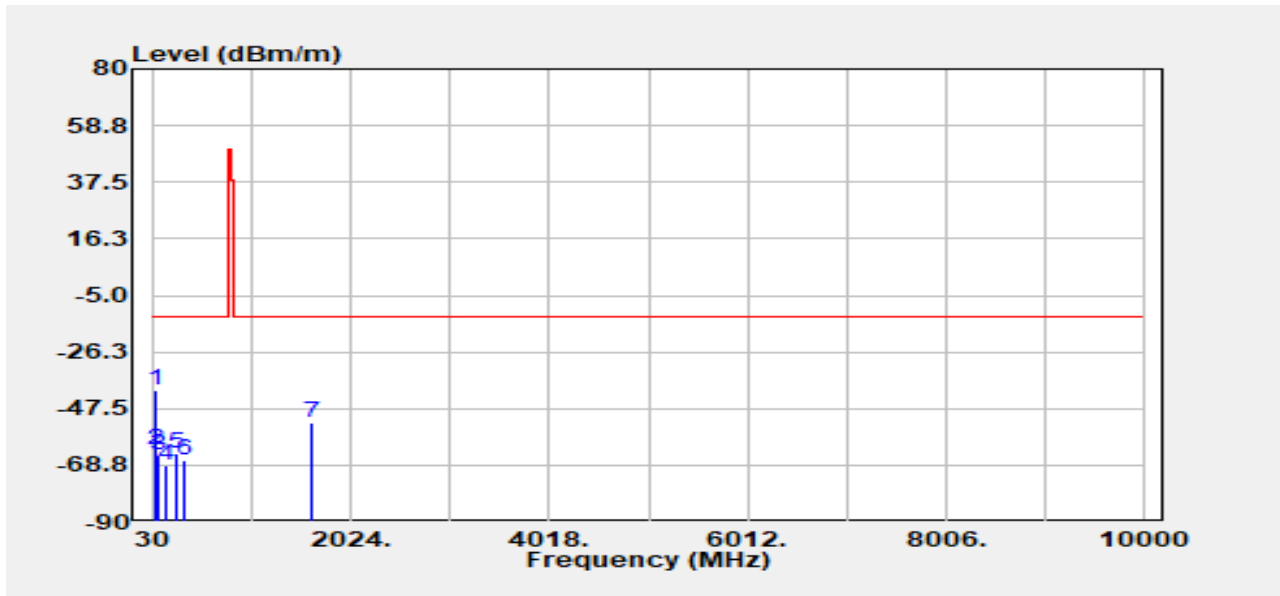
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
56.190	-45.67	-29.69	-15.61	-0.37	-13.00	-32.66
129.910	-61.35	-53.69	-7.05	-0.61	-13.00	-48.34
211.390	-63.02	-61.75	-0.44	-0.83	-13.00	-50.01
281.230	-66.57	-64.56	-1.09	-0.92	-13.00	-53.56
358.830	-65.68	-64.19	-0.49	-1.00	-13.00	-52.67
489.780	-64.08	-61.84	-0.64	-1.60	-13.00	-51.07
1628.400	-52.77	-57.10	9.46	-5.13	-13.00	-39.76

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT Part 90 B26 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Low	Temp./Humi.	:24.7/52
EUT Pol	:E2 Plan	Antenna Pol.	:Horizontal
Test Frequency	:814.2 MHz	Engineer	:Ashton Chiu



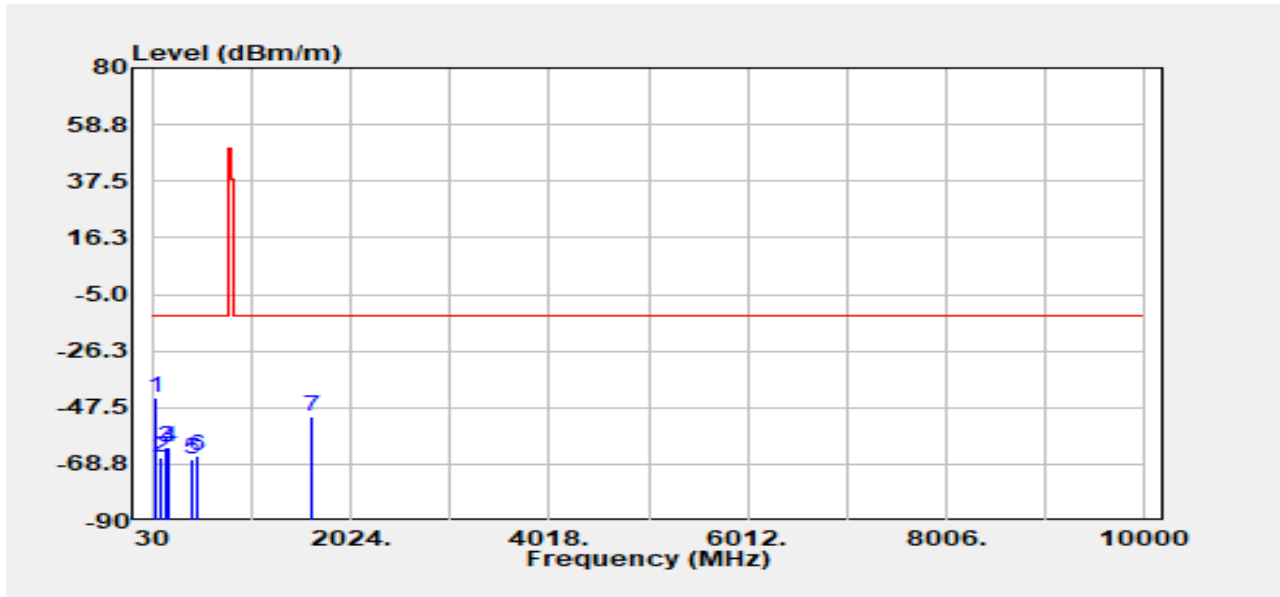
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
55.220	-40.86	-24.78	-15.72	-0.36	-13.00	-27.85
71.710	-63.26	-51.23	-11.55	-0.48	-13.00	-50.25
93.050	-65.12	-59.25	-5.37	-0.50	-13.00	-52.11
181.320	-69.00	-64.74	-3.51	-0.75	-13.00	-55.99
265.710	-64.30	-62.65	-0.71	-0.94	-13.00	-51.29
348.160	-66.60	-65.08	-0.40	-1.12	-13.00	-53.59
1628.400	-52.80	-57.13	9.46	-5.13	-13.00	-39.79

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT Part 90 B26 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Mid	Temp./Humi.	:24.7/52
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:819 MHz	Engineer	:Ashton Chiu



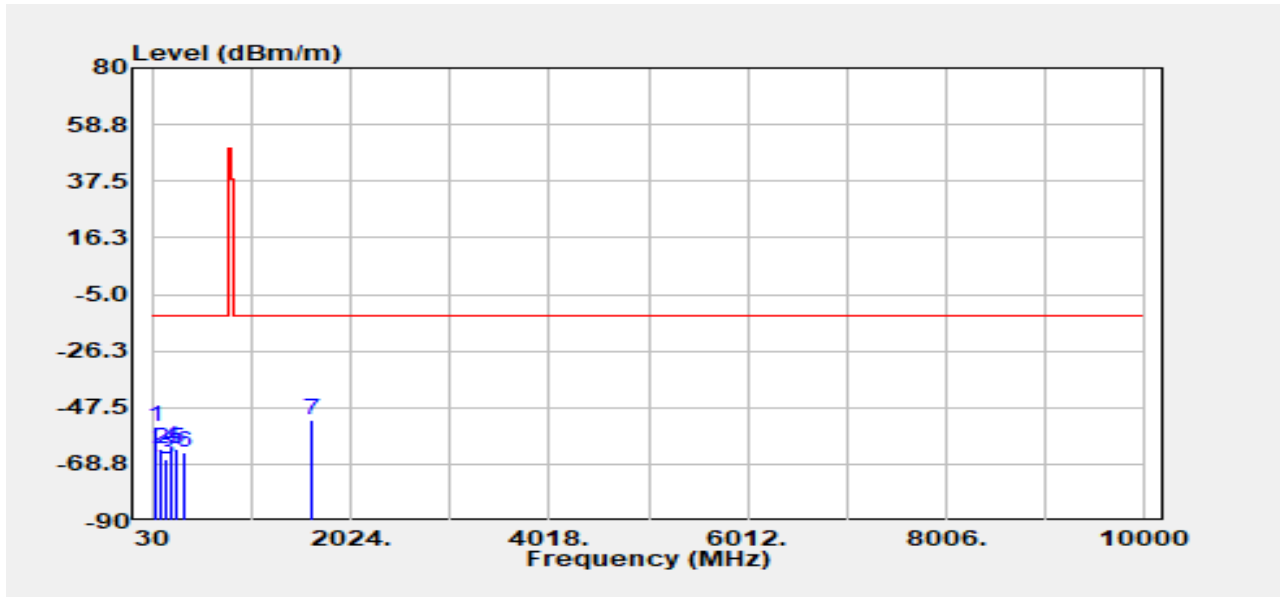
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-43.72	-27.74	-15.61	-0.37	-13.00	-30.71
118.270	-66.21	-58.89	-6.71	-0.61	-13.00	-53.20
176.470	-62.29	-57.17	-4.41	-0.71	-13.00	-49.28
202.660	-62.30	-60.59	-0.90	-0.81	-13.00	-49.29
426.730	-66.86	-64.87	-0.80	-1.19	-13.00	-53.85
490.750	-65.93	-63.68	-0.66	-1.59	-13.00	-52.92
1638.000	-50.61	-54.90	9.48	-5.19	-13.00	-37.60

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT Part 90 B26 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH Mid	Temp./Humi.	:24.7/52
EUT Pol	:E2 Plan	Antenna Pol.	:Horizontal
Test Frequency	:819 MHz	Engineer	:Ashton Chiu



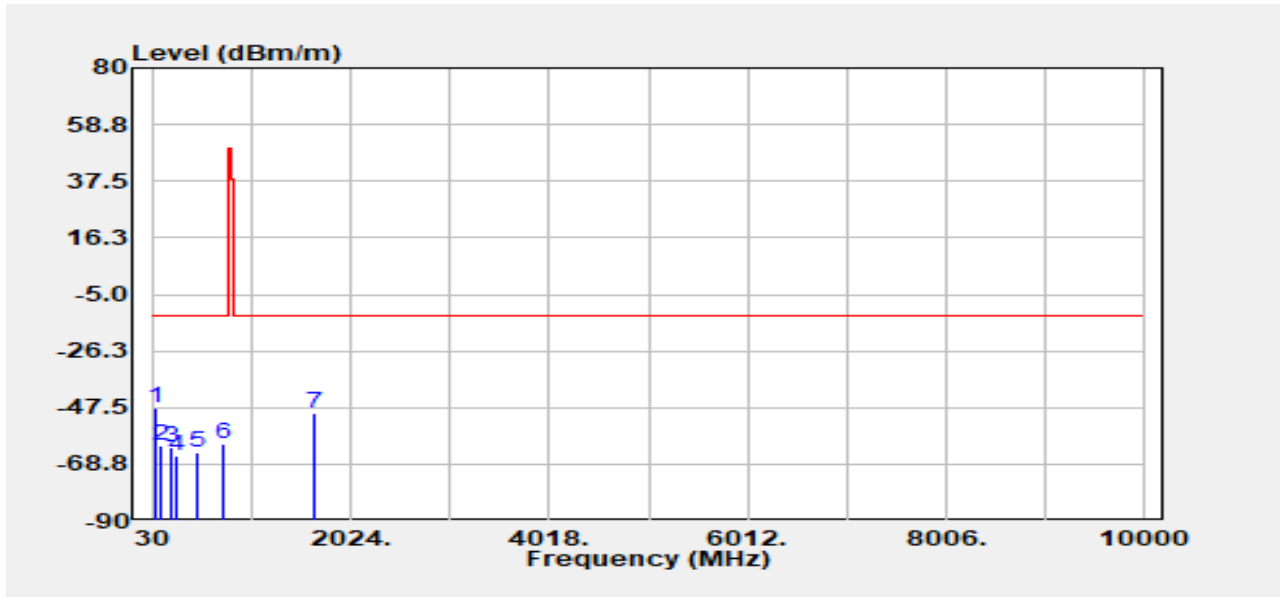
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.010	-55.03	-40.52	-14.09	-0.42	-13.00	-42.02
128.940	-63.33	-55.79	-6.93	-0.61	-13.00	-50.32
175.500	-66.64	-61.29	-4.65	-0.70	-13.00	-53.63
229.820	-62.39	-61.63	0.10	-0.86	-13.00	-49.38
266.680	-63.01	-61.31	-0.76	-0.94	-13.00	-50.00
342.340	-64.54	-62.81	-0.55	-1.18	-13.00	-51.53
1638.000	-52.41	-56.70	9.48	-5.19	-13.00	-39.40

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT Part 90 B26 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH High	Temp./Humi.	:24.7/52
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:823.8 MHz	Engineer	:Ashton Chiu



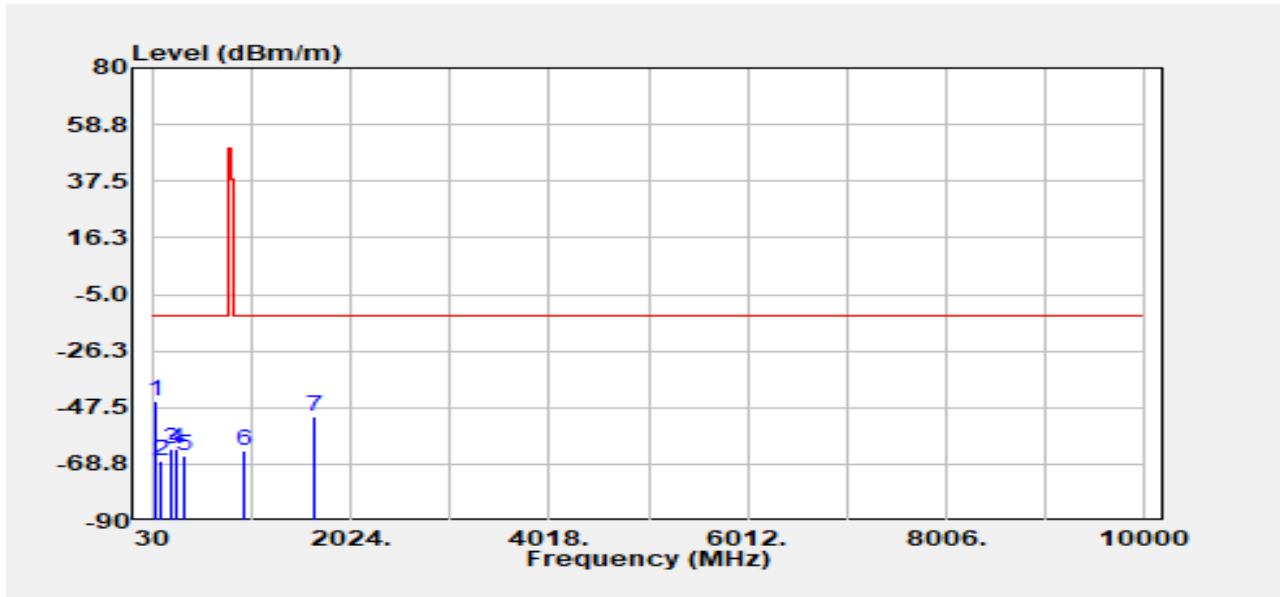
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-47.59	-31.61	-15.61	-0.37	-13.00	-34.58
116.330	-61.54	-54.31	-6.63	-0.60	-13.00	-48.53
211.390	-62.17	-60.90	-0.44	-0.83	-13.00	-49.16
273.470	-65.33	-63.45	-0.94	-0.94	-13.00	-52.32
490.750	-64.18	-61.93	-0.66	-1.59	-13.00	-51.17
741.010	-61.07	-57.84	-1.39	-1.84	-13.00	-48.06
1647.600	-49.82	-54.07	9.50	-5.25	-13.00	-36.81

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:NB IoT Part 90 B26 BPSK	Test Date	:2020-12-15
Test Mode	:TX CH High	Temp./Humi.	:24.7/52
EUT Pol	:E2 Plan	Antenna Pol.	:Horizontal
Test Frequency	:823.8 MHz	Engineer	:Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.160	-44.96	-29.28	-15.30	-0.38	-13.00	-31.95
122.150	-67.67	-60.16	-6.90	-0.61	-13.00	-54.66
224.000	-62.97	-62.37	0.24	-0.84	-13.00	-49.96
266.680	-62.92	-61.22	-0.76	-0.94	-13.00	-49.91
344.280	-65.77	-64.11	-0.50	-1.16	-13.00	-52.76
944.710	-63.80	-60.60	-1.43	-1.77	-13.00	-50.79
1647.600	-51.17	-55.42	9.50	-5.25	-13.00	-38.16

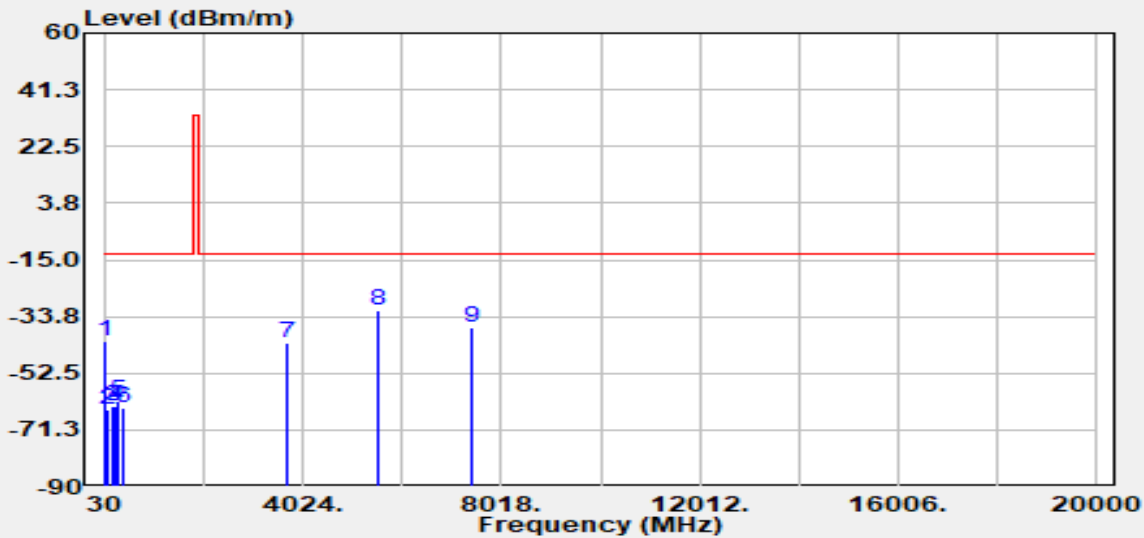
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Cat M1 Band 2

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B2 QPSK	Test Date	:2020-12-16
Test Mode	:TX CH Mid	Temp./Humi.	:21.5/68
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:1851.04 MHz	Engineer	:Ashton Chiu



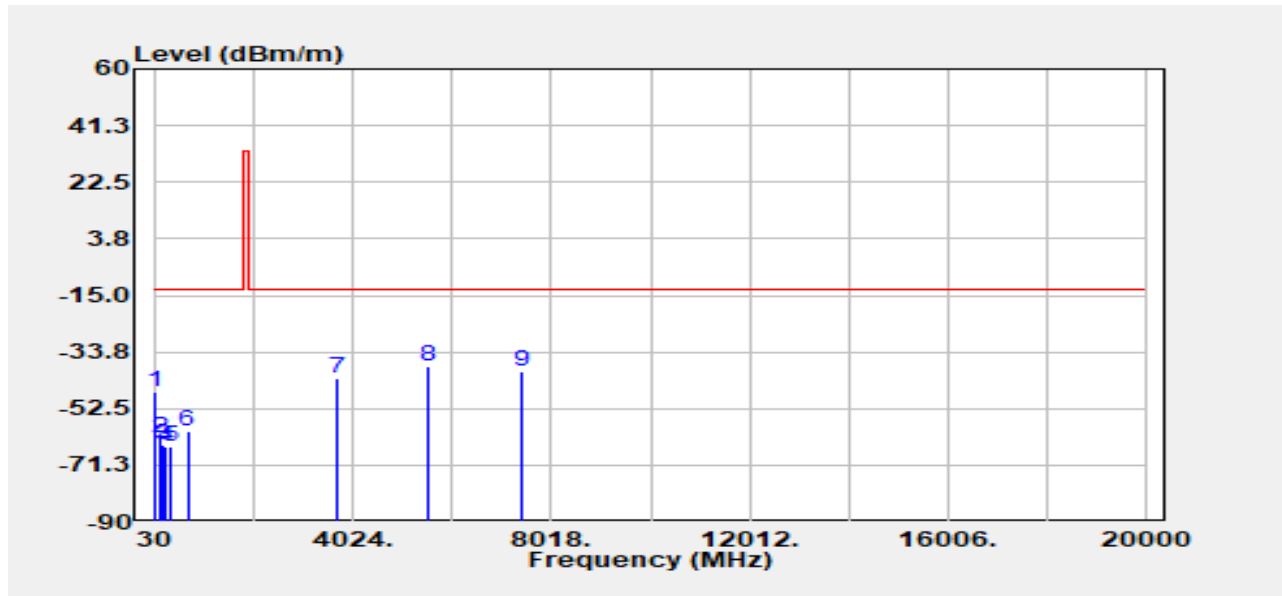
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-41.72	-26.51	-14.82	-0.39	-13.00	-28.71
108.570	-64.28	-57.42	-6.28	-0.58	-13.00	-51.27
197.810	-63.45	-61.43	-1.22	-0.80	-13.00	-50.44
263.770	-63.32	-61.72	-0.67	-0.93	-13.00	-50.31
314.210	-61.64	-59.60	-0.98	-1.06	-13.00	-48.63
429.640	-64.12	-62.10	-0.86	-1.16	-13.00	-51.11
3702.080	-42.69	-46.95	12.29	-8.03	-13.00	-29.68
5553.120	-31.58	-36.24	12.90	-8.24	-13.00	-18.57
7404.160	-37.49	-37.69	11.00	-10.80	-13.00	-24.48

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Report Number :E2/2020/B0031
Operation Mode :M1 B2 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1851.04 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.5/68
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
59.100	-47.15	-31.94	-14.82	-0.39	-13.00	-34.14
144.460	-62.26	-54.58	-7.04	-0.64	-13.00	-49.25
227.880	-64.34	-63.67	0.18	-0.85	-13.00	-51.33
276.380	-64.95	-63.03	-0.99	-0.93	-13.00	-51.94
345.250	-64.95	-63.33	-0.47	-1.15	-13.00	-51.94
704.150	-60.22	-57.78	-1.07	-1.37	-13.00	-47.21
3702.080	-42.54	-46.80	12.29	-8.03	-13.00	-29.53
5553.120	-38.36	-43.02	12.90	-8.24	-13.00	-25.35
7404.160	-40.41	-40.61	11.00	-10.80	-13.00	-27.40

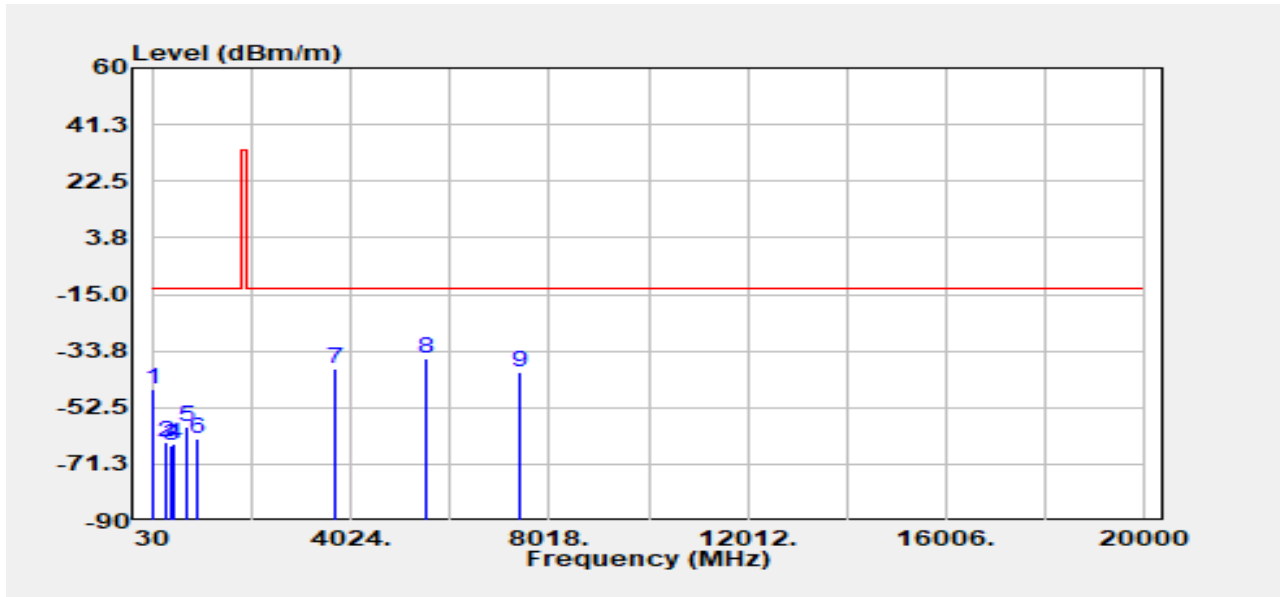
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Report Number :E2/2020/B0031
Operation Mode :M1 B2 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1851.04 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.5/64
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-46.66	-31.45	-14.82	-0.39	-13.00	-33.65
298.690	-64.09	-62.05	-1.01	-1.03	-13.00	-51.08
432.550	-65.37	-63.31	-0.92	-1.14	-13.00	-52.36
489.780	-64.40	-62.16	-0.64	-1.60	-13.00	-51.39
741.010	-58.94	-55.71	-1.39	-1.84	-13.00	-45.93
940.830	-62.63	-59.40	-1.47	-1.76	-13.00	-49.62
3702.080	-39.90	-44.16	12.29	-8.03	-13.00	-26.89
5549.680	-36.24	-40.90	12.90	-8.24	-13.00	-23.23
7404.160	-41.00	-41.20	11.00	-10.80	-13.00	-27.99

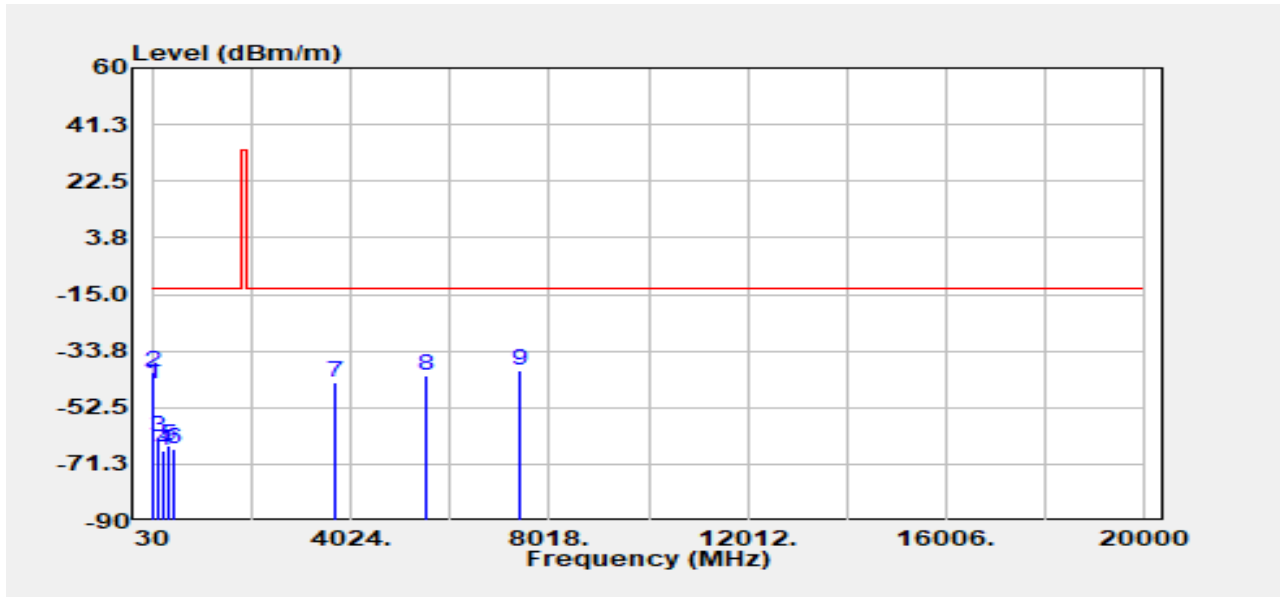
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Report Number :E2/2020/B0031
Operation Mode :M1 B2 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1851.04 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.4/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-44.54	-25.32	-18.97	-0.25	-13.00	-31.53
59.100	-40.83	-25.62	-14.82	-0.39	-13.00	-27.82
143.490	-62.52	-54.84	-7.05	-0.63	-13.00	-49.51
252.130	-66.86	-65.12	-0.79	-0.95	-13.00	-53.85
348.160	-65.35	-63.83	-0.40	-1.12	-13.00	-52.34
474.260	-66.18	-63.96	-0.82	-1.40	-13.00	-53.17
3702.080	-44.15	-48.41	12.29	-8.03	-13.00	-31.14
5553.120	-41.63	-46.29	12.90	-8.24	-13.00	-28.62
7404.160	-40.07	-40.27	11.00	-10.80	-13.00	-27.06

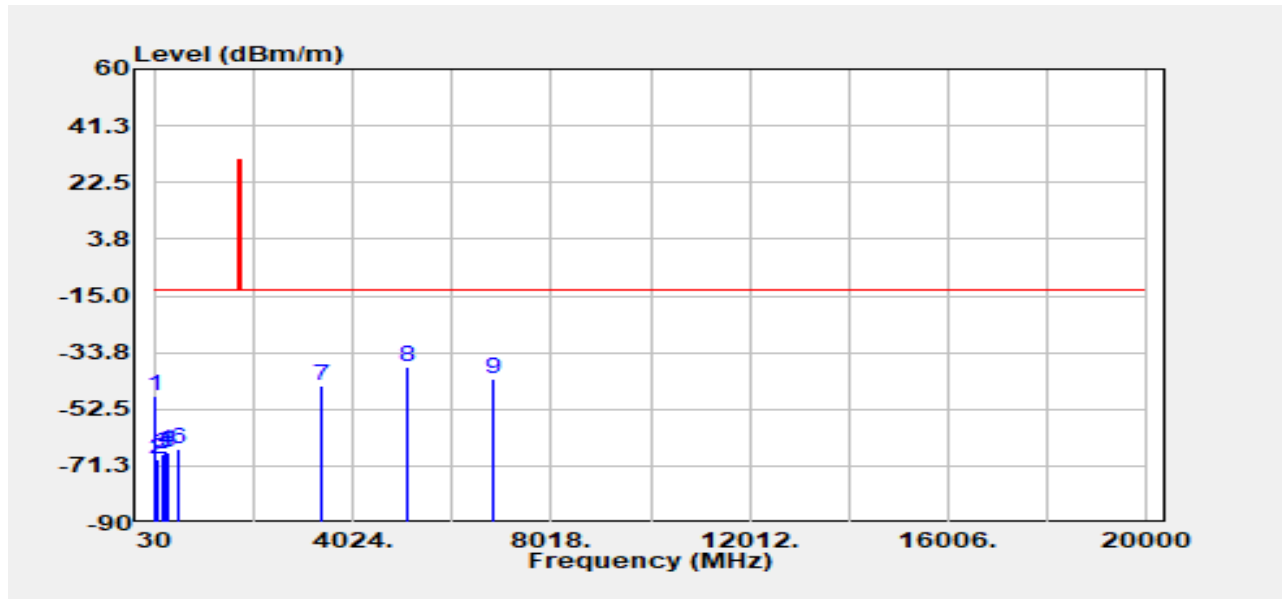
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Cat M1 Band 4

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B4 QPSK	Test Date	:2020-12-16
Test Mode	:TX CH Mid	Temp./Humi.	:21.4/63
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:1711.04 MHz	Engineer	:Ashton Chiu



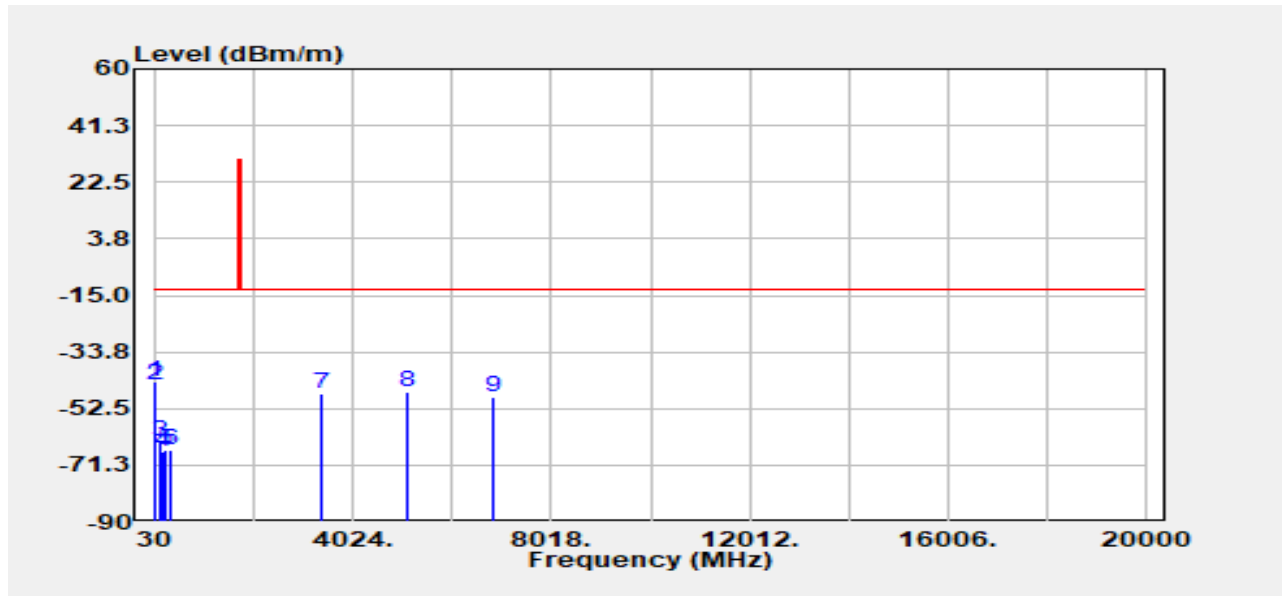
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
59.100	-47.87	-32.66	-14.82	-0.39	-13.00	-34.86
89.170	-68.87	-62.64	-5.75	-0.48	-13.00	-55.86
196.840	-67.15	-65.11	-1.24	-0.80	-13.00	-54.14
263.770	-66.10	-64.50	-0.67	-0.93	-13.00	-53.09
328.760	-66.77	-64.86	-0.80	-1.11	-13.00	-53.76
501.420	-65.89	-63.79	-0.69	-1.41	-13.00	-52.88
3422.080	-44.44	-48.94	12.56	-8.06	-13.00	-31.43
5133.120	-38.73	-42.09	12.10	-8.74	-13.00	-25.72
6844.160	-42.62	-45.07	12.02	-9.57	-13.00	-29.61

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Report Number :E2/2020/B0031
Operation Mode :M1 B4 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1711.04 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.4/63
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-43.79	-24.57	-18.97	-0.25	-13.00	-30.78
59.100	-44.51	-29.30	-14.82	-0.39	-13.00	-31.50
156.100	-63.24	-56.01	-6.57	-0.66	-13.00	-50.23
196.840	-66.75	-64.71	-1.24	-0.80	-13.00	-53.74
263.770	-66.08	-64.48	-0.67	-0.93	-13.00	-53.07
347.190	-66.28	-64.72	-0.43	-1.13	-13.00	-53.27
3422.080	-47.71	-52.11	12.55	-8.15	-13.00	-34.70
5133.120	-46.85	-49.95	12.10	-9.00	-13.00	-33.84
6844.160	-48.42	-50.74	11.93	-9.61	-13.00	-35.41

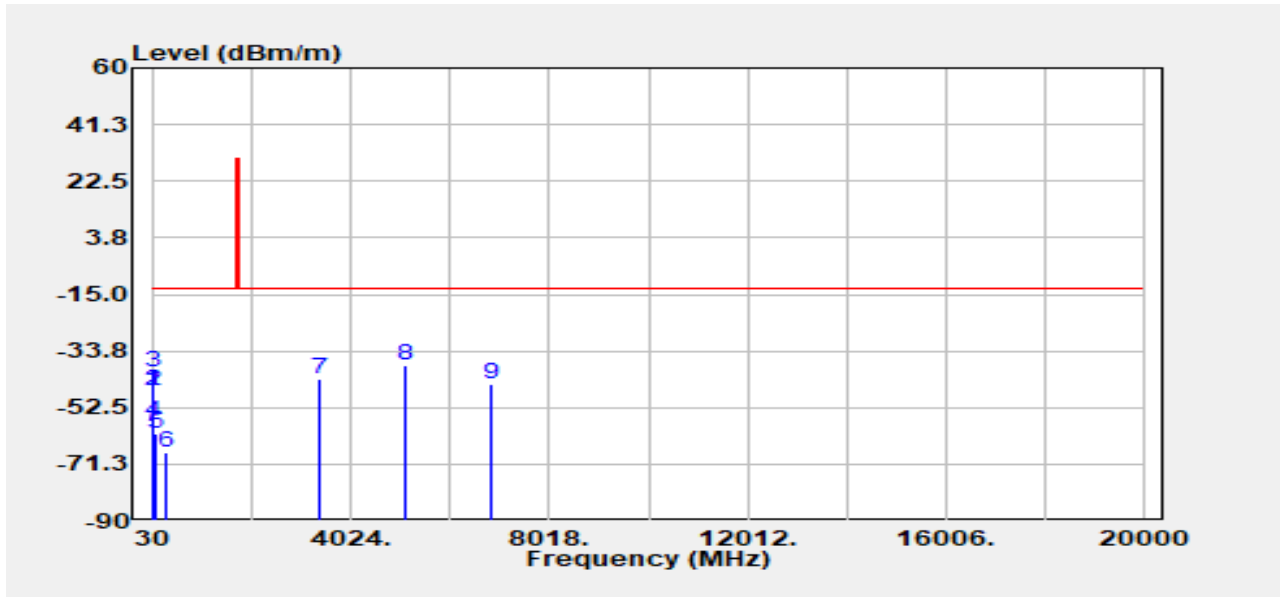
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Report Number :E2/2020/B0031
Operation Mode :M1 B4 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1711.04 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.4/60
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-46.82	-27.30	-19.27	-0.25	-13.00	-33.81
45.520	-46.96	-28.79	-17.88	-0.29	-13.00	-33.95
59.100	-40.77	-25.56	-14.82	-0.39	-13.00	-27.76
71.710	-57.07	-45.04	-11.55	-0.48	-13.00	-44.06
79.470	-61.19	-52.09	-8.64	-0.46	-13.00	-48.18
306.450	-67.27	-65.26	-0.97	-1.04	-13.00	-54.26
3422.080	-43.21	-47.61	12.55	-8.15	-13.00	-30.20
5133.120	-38.75	-41.85	12.10	-9.00	-13.00	-25.74
6844.160	-44.59	-47.04	12.02	-9.57	-13.00	-31.58

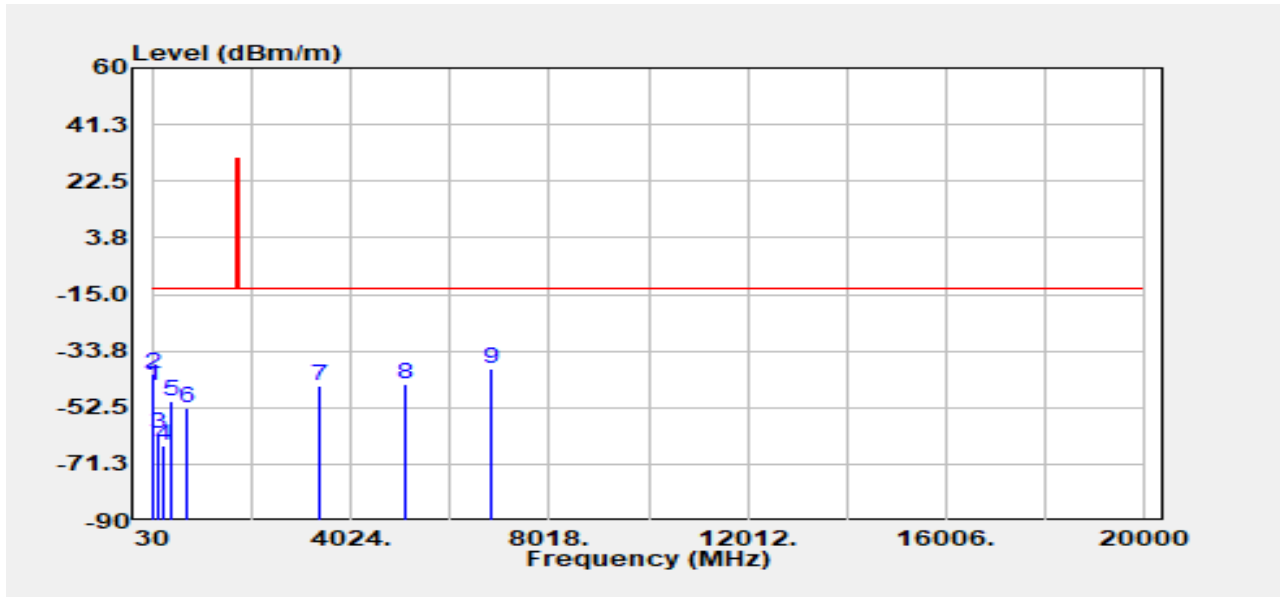
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Report Number :E2/2020/B0031
Operation Mode :M1 B4 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :1711.04 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.4/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-45.44	-26.22	-18.97	-0.25	-13.00	-32.43
59.100	-41.29	-26.08	-14.82	-0.39	-13.00	-28.28
143.490	-61.23	-53.55	-7.05	-0.63	-13.00	-48.22
252.130	-64.99	-63.25	-0.79	-0.95	-13.00	-51.98
420.910	-50.13	-48.18	-0.70	-1.25	-13.00	-37.12
737.130	-52.44	-49.27	-1.27	-1.90	-13.00	-39.43
3422.080	-45.17	-49.57	12.55	-8.15	-13.00	-32.16
5133.120	-44.85	-48.21	12.10	-8.74	-13.00	-31.84
6844.160	-39.45	-41.90	12.02	-9.57	-13.00	-26.44

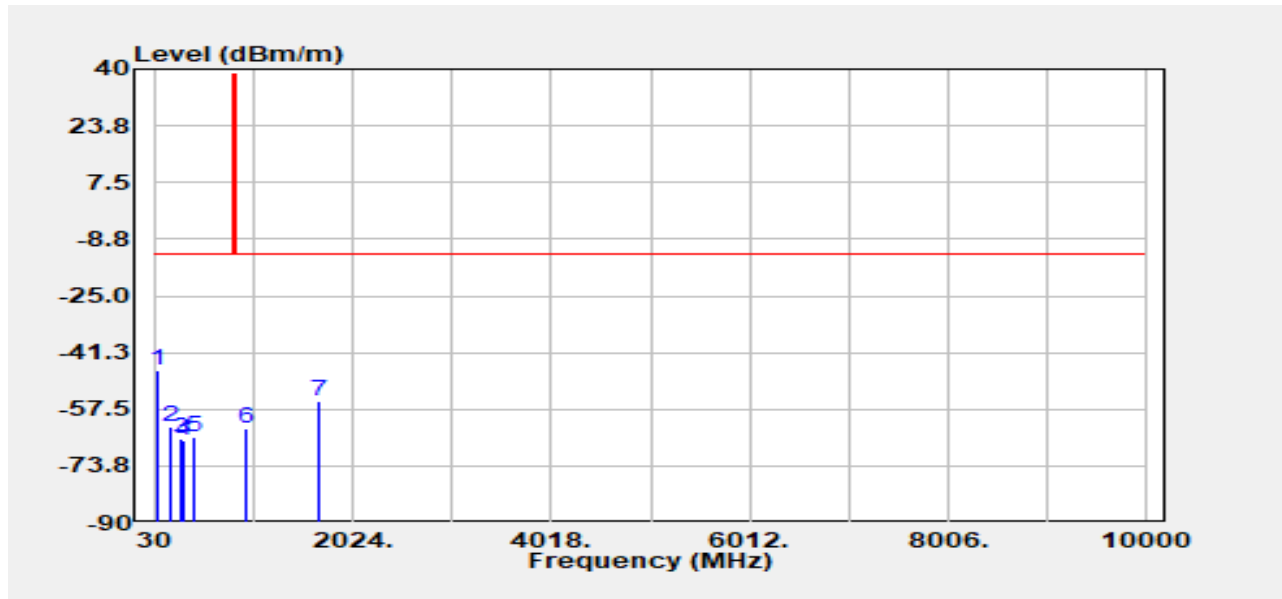
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Cat M1 Band 5

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B5 16QAM	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.3/66
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:836.86 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
59.100	-46.21	-31.00	-14.82	-0.39	-13.00	-33.20
197.810	-62.64	-60.62	-1.22	-0.80	-13.00	-49.63
306.450	-65.98	-63.97	-0.97	-1.04	-13.00	-52.97
326.820	-66.40	-64.45	-0.85	-1.10	-13.00	-53.39
422.850	-65.71	-63.75	-0.73	-1.23	-13.00	-52.70
943.740	-62.78	-59.57	-1.44	-1.77	-13.00	-49.77
1673.720	-55.03	-59.36	9.55	-5.22	-13.00	-42.02

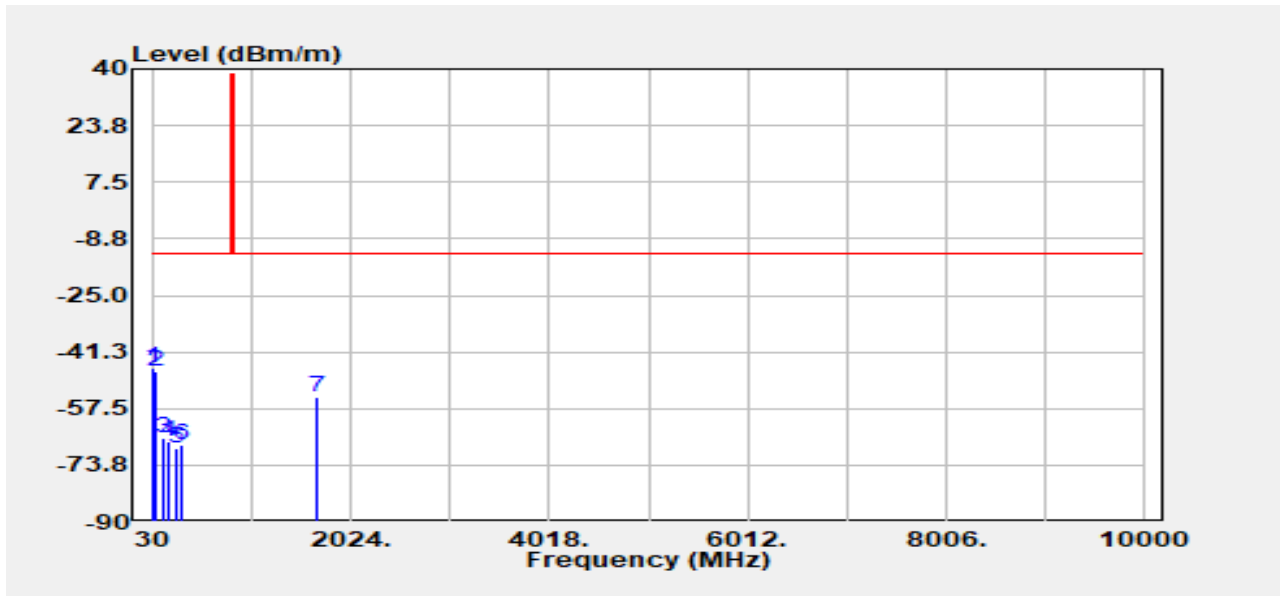
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Report Number :E2/2020/B0031
Operation Mode :M1 B5 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.86 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.850	-45.95	-26.43	-19.27	-0.25	-13.00	-32.94
60.070	-46.86	-31.69	-14.77	-0.40	-13.00	-33.85
143.490	-65.87	-58.19	-7.05	-0.63	-13.00	-52.86
196.840	-67.05	-65.01	-1.24	-0.80	-13.00	-54.04
263.770	-69.15	-67.55	-0.67	-0.93	-13.00	-56.14
324.880	-67.88	-65.89	-0.90	-1.09	-13.00	-54.87
1673.720	-54.16	-58.49	9.55	-5.22	-13.00	-41.15

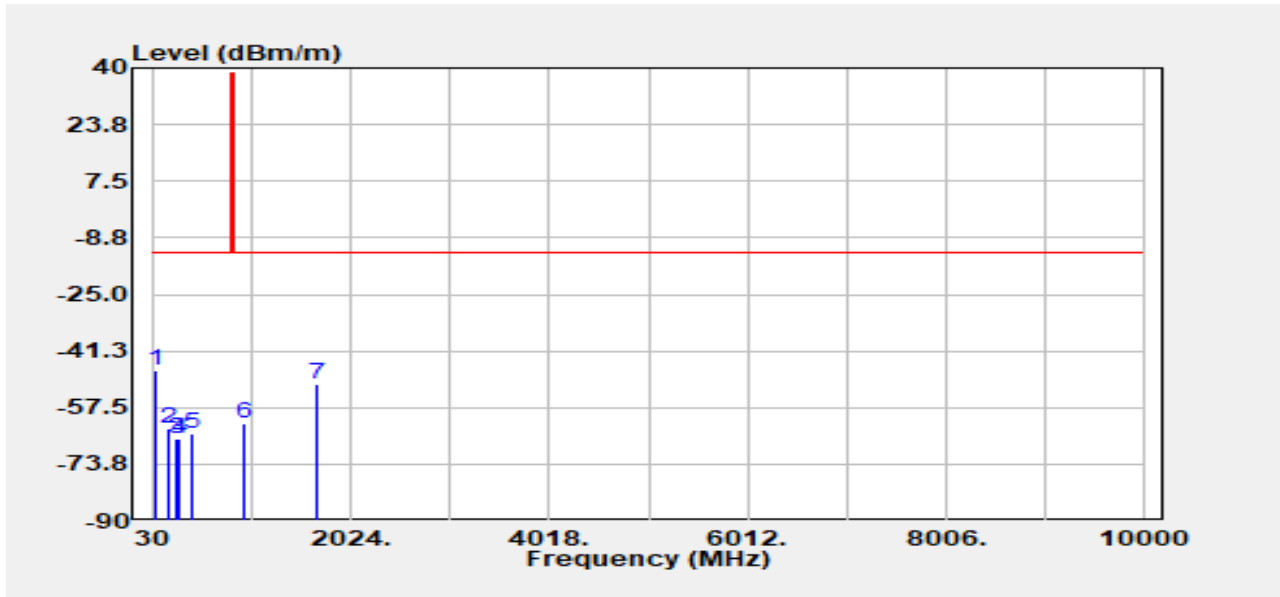
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Report Number :E2/2020/B0031
Operation Mode :M1 B5 QPAK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.86 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-46.68	-31.47	-14.82	-0.39	-13.00	-33.67
197.810	-63.34	-61.32	-1.22	-0.80	-13.00	-50.33
262.800	-66.58	-65.00	-0.66	-0.92	-13.00	-53.57
306.450	-66.30	-64.29	-0.97	-1.04	-13.00	-53.29
427.700	-65.15	-63.15	-0.82	-1.18	-13.00	-52.14
944.710	-61.89	-58.69	-1.43	-1.77	-13.00	-48.88
1673.720	-50.58	-54.91	9.55	-5.22	-13.00	-37.57

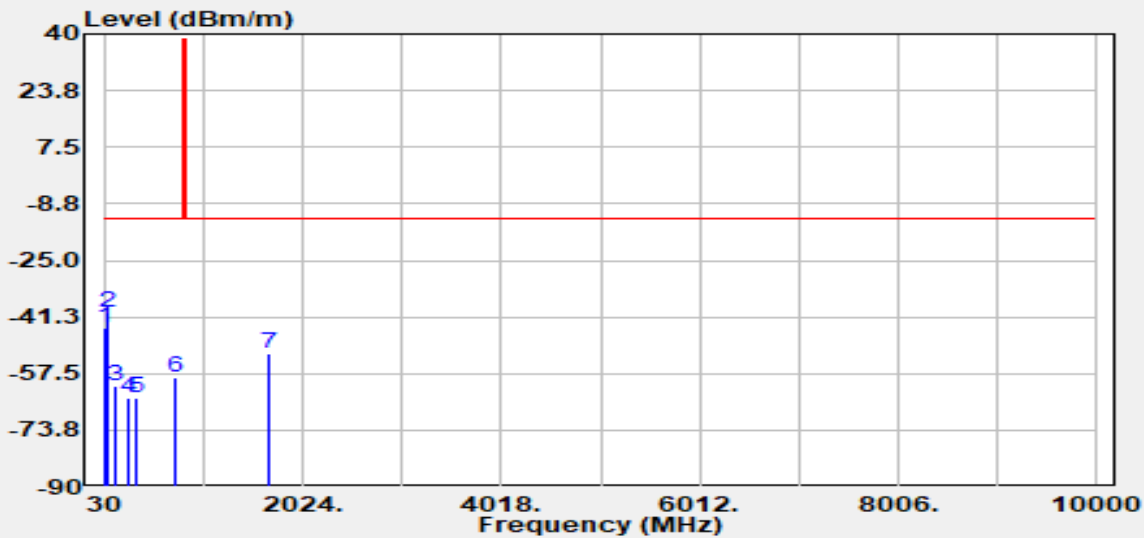
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Report Number :E2/2020/B0031
Operation Mode :M1 B5 QPAK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :836.86 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-44.14	-24.92	-18.97	-0.25	-13.00	-31.13
59.100	-40.05	-24.84	-14.82	-0.39	-13.00	-27.04
155.130	-61.16	-53.79	-6.71	-0.66	-13.00	-48.15
264.740	-64.67	-63.06	-0.68	-0.93	-13.00	-51.66
351.070	-64.66	-63.19	-0.38	-1.09	-13.00	-51.65
737.130	-58.61	-55.44	-1.27	-1.90	-13.00	-45.60
1673.720	-51.86	-56.19	9.55	-5.22	-13.00	-38.85

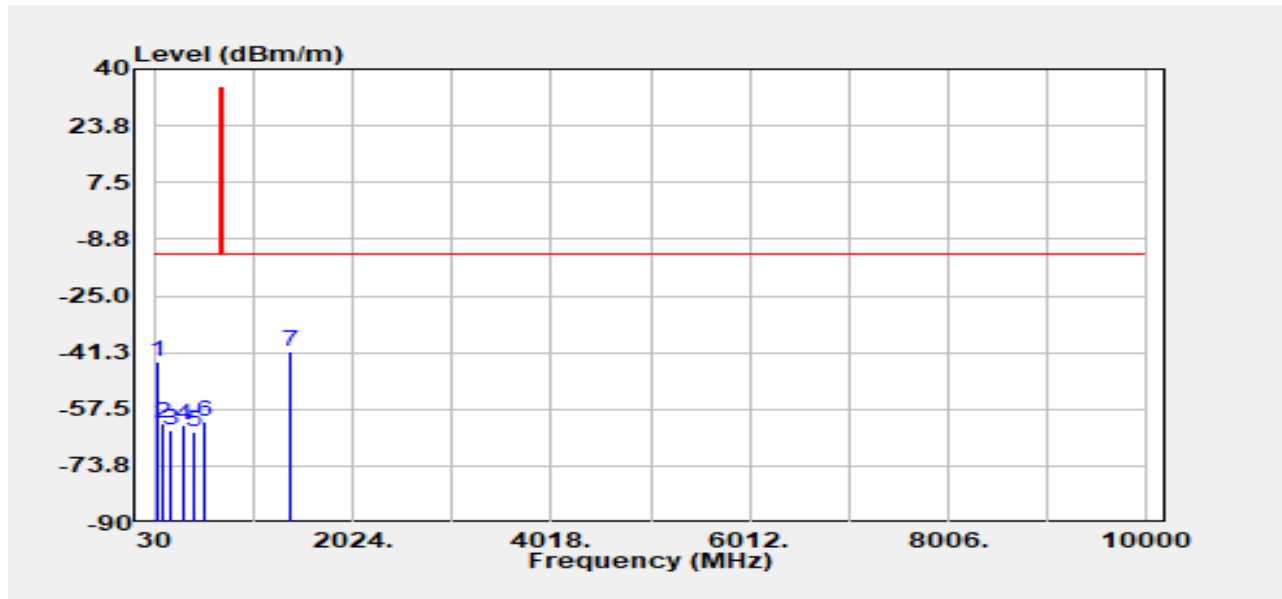
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Cat M1 Band 12

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B12 QPAK	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.1/64
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:699.79 MHz	Engineer	:Ashton Chiu



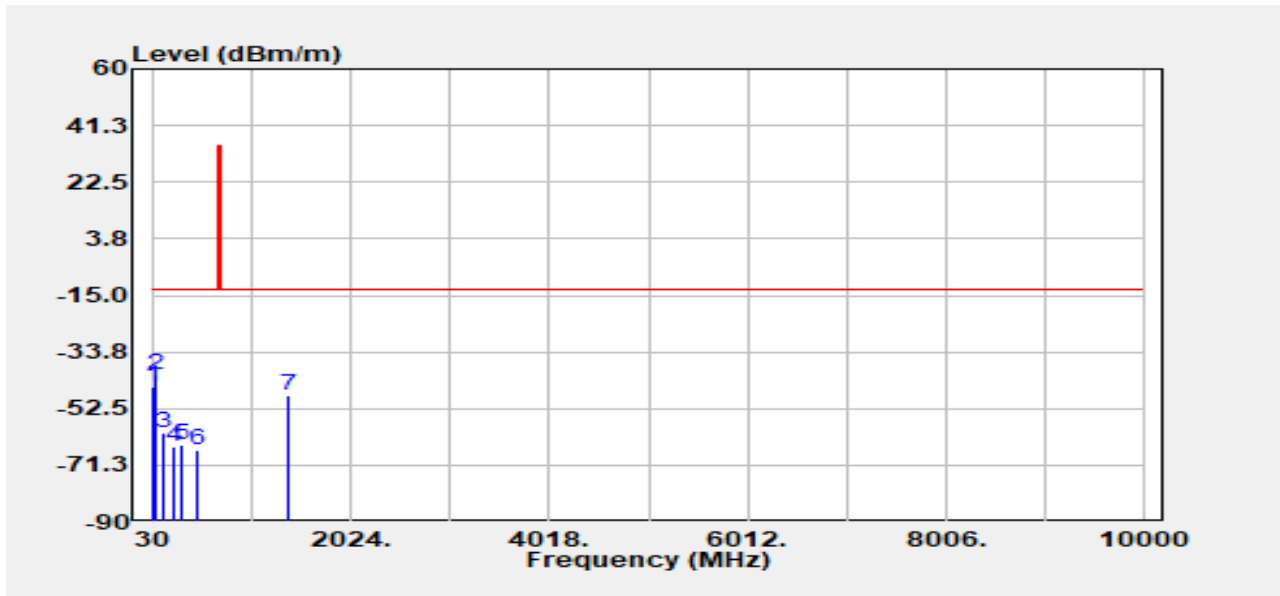
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-43.67	-28.46	-14.82	-0.39	-13.00	-30.66
110.510	-61.61	-54.55	-6.47	-0.59	-13.00	-48.60
196.840	-63.41	-61.37	-1.24	-0.80	-13.00	-50.40
316.150	-61.81	-59.76	-0.99	-1.06	-13.00	-48.80
423.820	-64.22	-62.25	-0.75	-1.22	-13.00	-51.21
527.610	-61.09	-59.21	-0.85	-1.03	-13.00	-48.08
1399.580	-40.91	-44.15	7.60	-4.36	-13.00	-27.90

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Report Number :E2/2020/B0031
Operation Mode :M1 B12 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :699.79 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.3/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.850	-45.43	-25.91	-19.27	-0.25	-13.00	-32.42
60.070	-41.10	-25.93	-14.77	-0.40	-13.00	-28.09
156.100	-60.50	-53.27	-6.57	-0.66	-13.00	-47.49
252.130	-65.26	-63.52	-0.79	-0.95	-13.00	-52.25
331.670	-64.63	-62.74	-0.76	-1.13	-13.00	-51.62
474.260	-66.13	-63.91	-0.82	-1.40	-13.00	-53.12
1399.580	-47.87	-51.11	7.60	-4.36	-13.00	-34.86

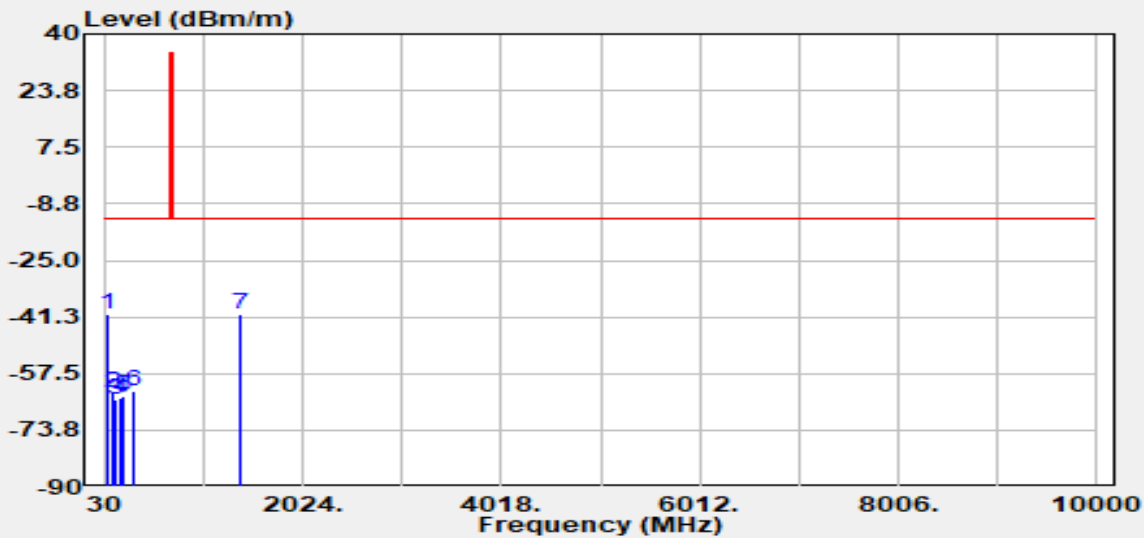
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Report Number :E2/2020/B0031
Operation Mode :M1 B12 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :699.79 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/65
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-40.70	-25.49	-14.82	-0.39	-13.00	-27.69
109.540	-63.07	-56.02	-6.46	-0.59	-13.00	-50.06
156.100	-64.86	-57.63	-6.57	-0.66	-13.00	-51.85
196.840	-64.30	-62.26	-1.24	-0.80	-13.00	-51.29
226.910	-63.78	-63.15	0.22	-0.85	-13.00	-50.77
323.910	-62.43	-60.41	-0.93	-1.09	-13.00	-49.42
1399.580	-40.61	-43.85	7.60	-4.36	-13.00	-27.60

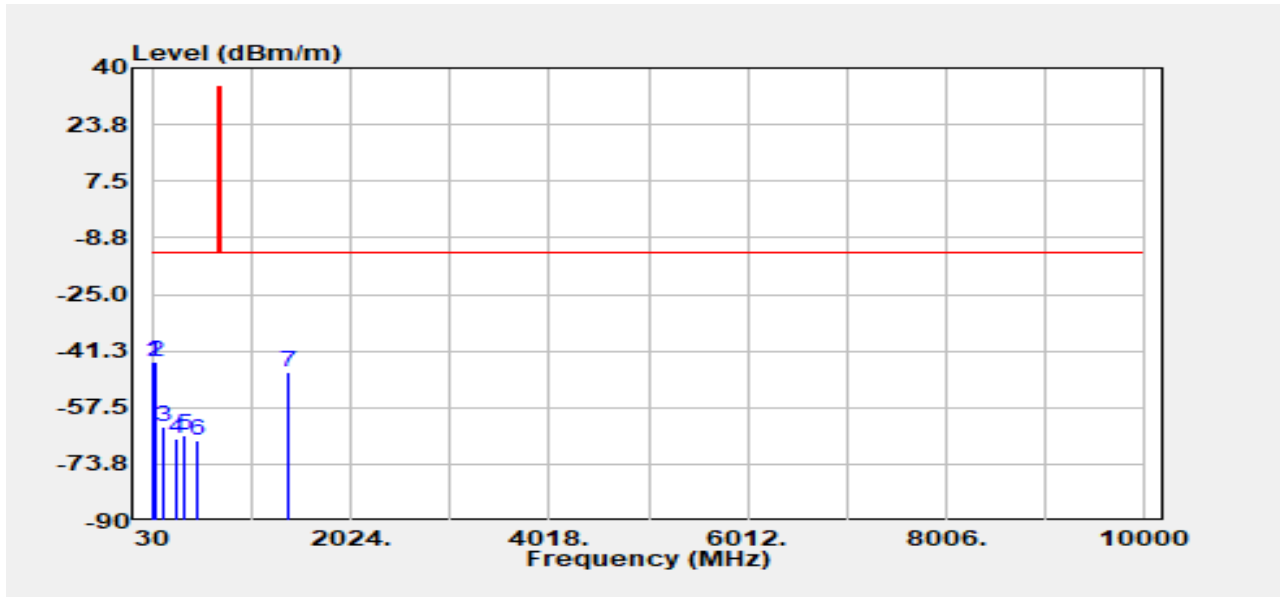
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Report Number :E2/2020/B0031
Operation Mode :M1 B12 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :699.79 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-44.26	-25.04	-18.97	-0.25	-13.00	-31.25
60.070	-44.47	-29.30	-14.77	-0.40	-13.00	-31.46
156.100	-62.90	-55.67	-6.57	-0.66	-13.00	-49.89
263.770	-66.64	-65.04	-0.67	-0.93	-13.00	-53.63
345.250	-65.33	-63.71	-0.47	-1.15	-13.00	-52.32
474.260	-66.77	-64.55	-0.82	-1.40	-13.00	-53.76
1399.580	-47.36	-50.60	7.60	-4.36	-13.00	-34.35

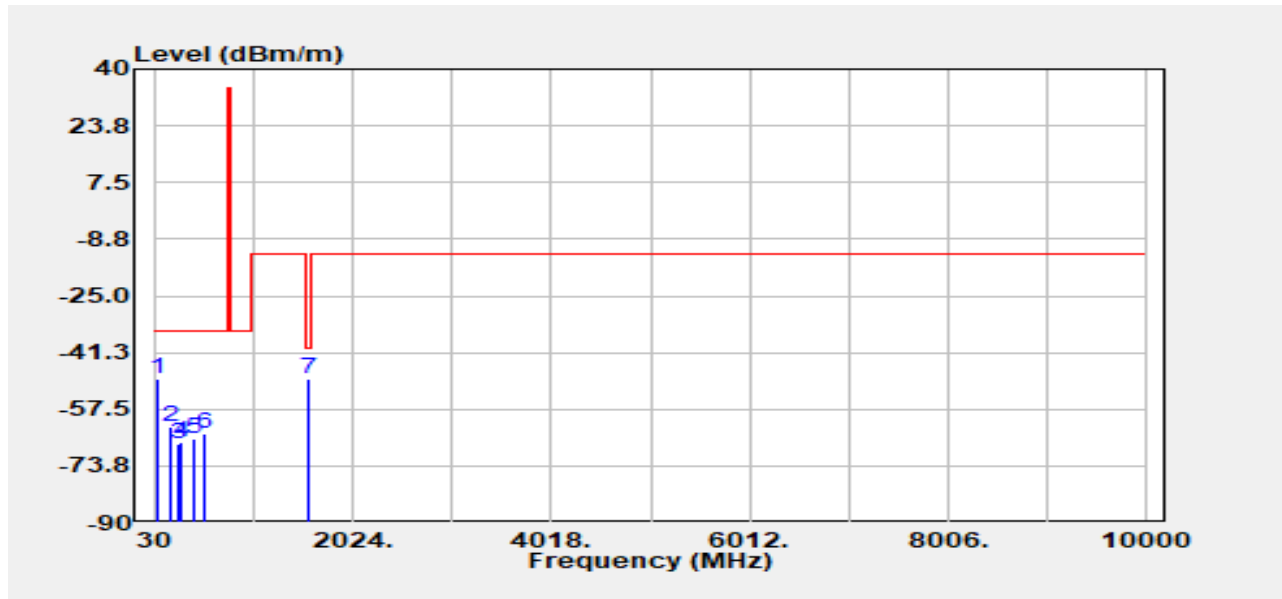
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Cat M1 Band 13

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B13 QPSK	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.1/65
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:785.96 MHz	Engineer	:Ashton Chiu



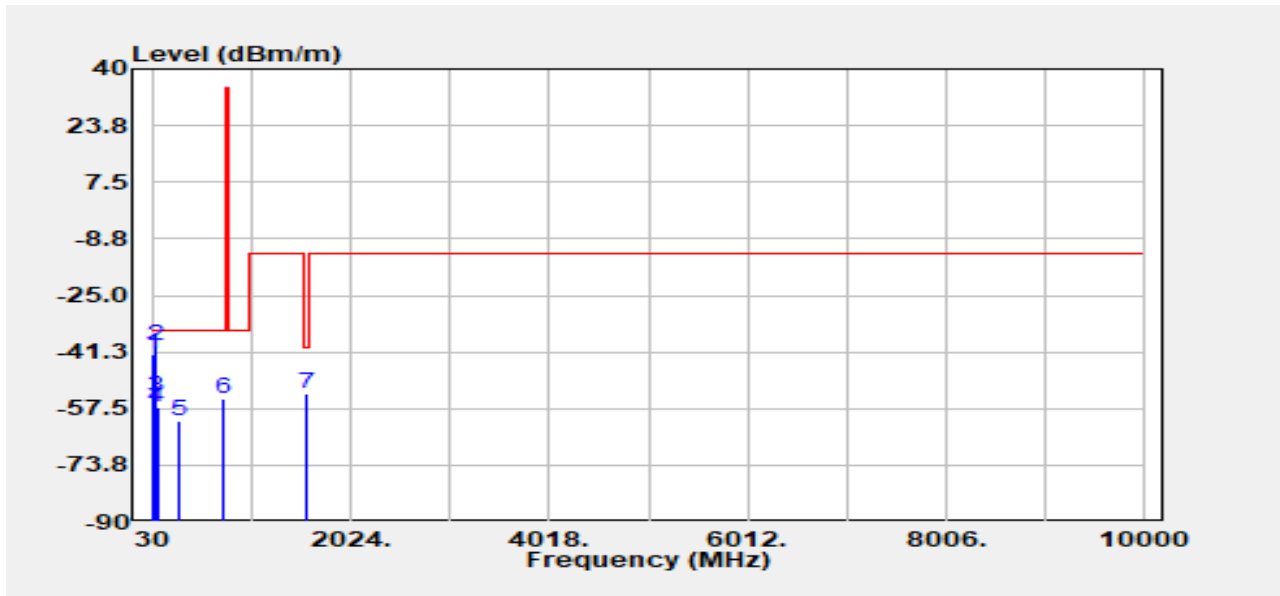
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-48.69	-33.48	-14.82	-0.39	-35.00	-13.68
197.810	-62.44	-60.42	-1.22	-0.80	-35.00	-27.43
263.770	-67.65	-66.05	-0.67	-0.93	-35.00	-32.64
309.360	-66.94	-64.90	-1.00	-1.04	-35.00	-31.93
427.700	-65.90	-63.90	-0.82	-1.18	-35.00	-30.89
526.640	-64.31	-62.43	-0.84	-1.04	-35.00	-29.30
1571.920	-49.00	-53.36	9.23	-4.87	-40.00	-8.99

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Report Number :E2/2020/B0031
Operation Mode :M1 B13 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.1/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
30.970	-42.05	-21.88	-19.92	-0.25	-35.00	-7.04
60.070	-39.23	-24.06	-14.77	-0.40	-35.00	-4.22
71.710	-54.36	-42.33	-11.55	-0.48	-35.00	-19.35
79.470	-57.32	-48.22	-8.64	-0.46	-35.00	-22.31
310.330	-61.13	-59.08	-1.01	-1.04	-35.00	-26.12
744.890	-54.61	-51.35	-1.50	-1.76	-35.00	-19.60
1571.920	-53.43	-57.79	9.23	-4.87	-40.00	-13.42

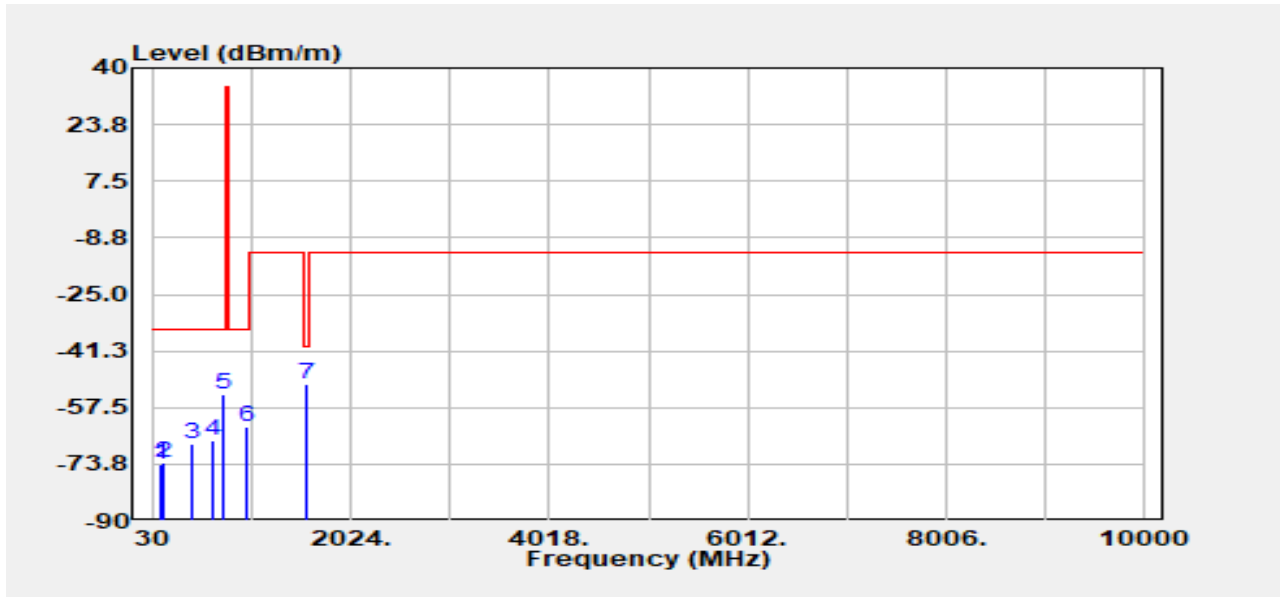
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
118.270	-73.60	-66.28	-6.71	-0.61	-35.00	-38.59
146.400	-73.53	-65.97	-6.91	-0.65	-35.00	-38.52
424.790	-67.88	-65.90	-0.77	-1.21	-35.00	-32.87
636.250	-66.92	-63.93	-1.29	-1.70	-35.00	-31.91
746.830	-53.60	-50.37	-1.51	-1.72	-35.00	-18.59
976.720	-62.99	-59.83	-1.31	-1.85	-35.00	-27.98
1571.920	-50.72	-55.08	9.23	-4.87	-40.00	-10.71

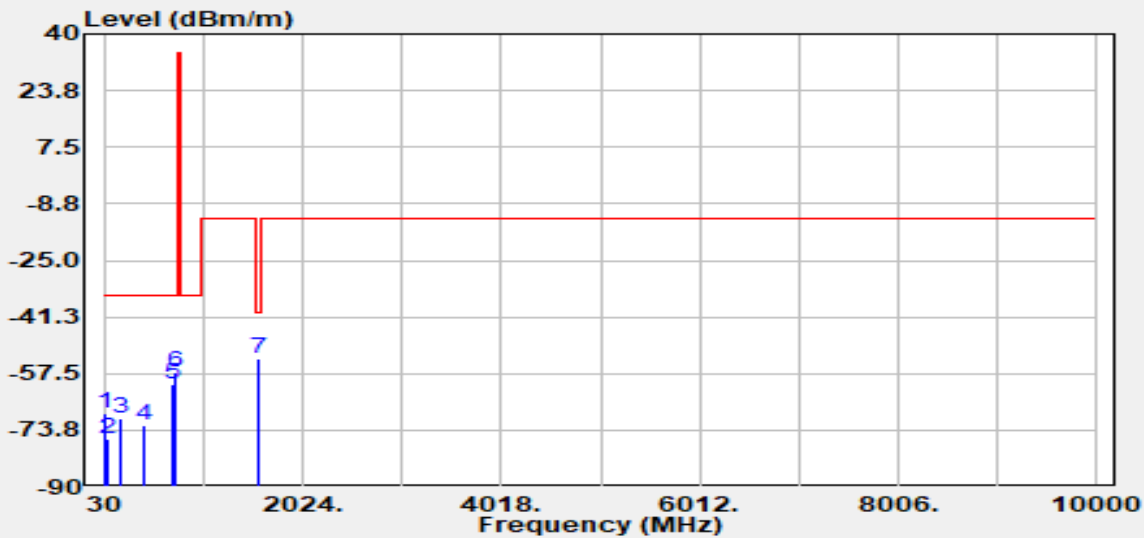
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-68.83	-49.61	-18.97	-0.25	-35.00	-33.82
78.500	-76.13	-66.78	-8.89	-0.46	-35.00	-41.12
197.810	-70.24	-68.22	-1.22	-0.80	-35.00	-35.23
424.790	-72.22	-70.24	-0.77	-1.21	-35.00	-37.21
729.370	-60.73	-57.59	-1.16	-1.98	-35.00	-25.72
747.800	-57.32	-54.10	-1.52	-1.70	-35.00	-22.31
1571.920	-53.14	-57.50	9.23	-4.87	-40.00	-13.13

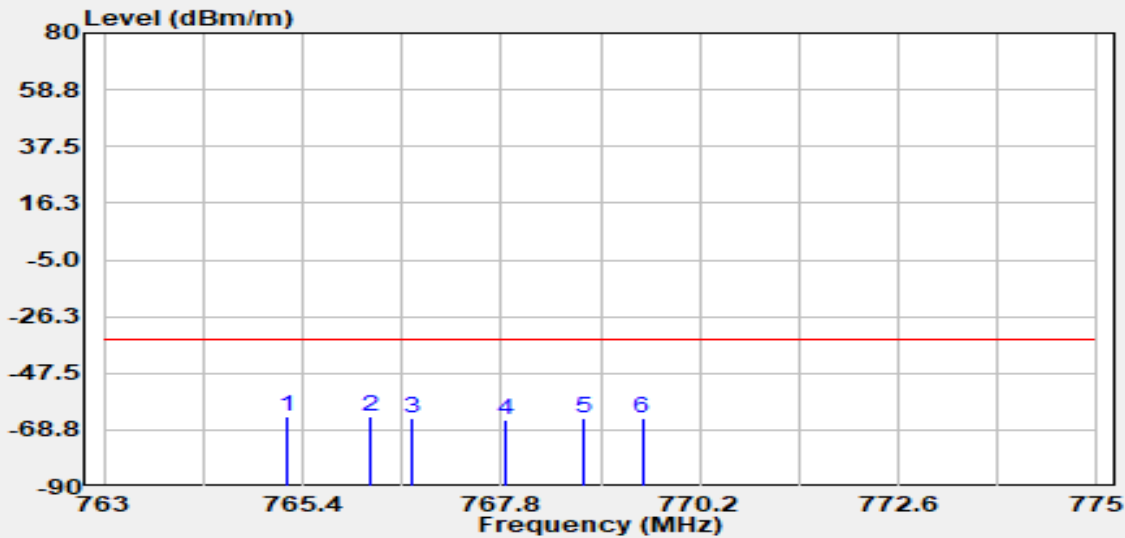
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Cat M1 Band 13 (763-775MHz)

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B13 QPSK	Test Date	:2020-12-16
Test Mode	:TX CH Mid	Temp./Humi.	:22.7/59
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:785.96 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
765.220	-63.43	-60.55	-1.47	-1.41	-35.00	-28.42
766.216	-64.00	-61.12	-1.48	-1.40	-35.00	-28.99
766.708	-64.10	-61.22	-1.48	-1.40	-35.00	-29.09
767.848	-65.09	-62.22	-1.49	-1.38	-35.00	-30.08
768.784	-64.51	-61.64	-1.50	-1.37	-35.00	-29.50
769.504	-64.17	-61.29	-1.51	-1.37	-35.00	-29.16

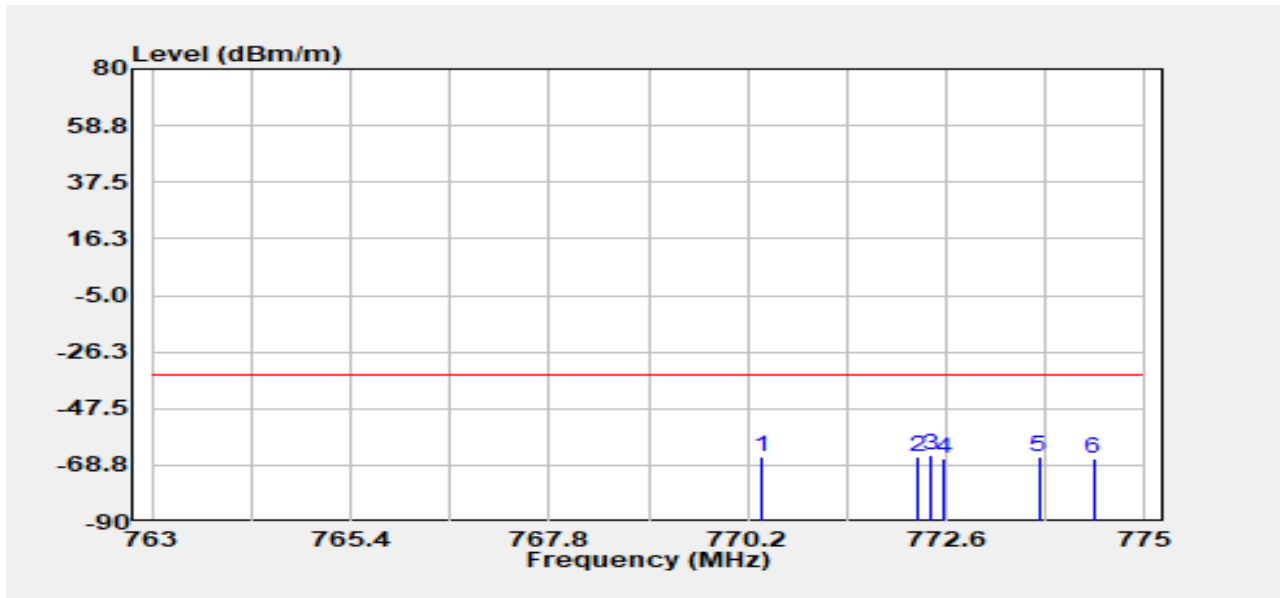
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.7/59
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
770.380	-65.65	-62.78	-1.51	-1.36	-35.00	-30.64
772.252	-65.38	-62.48	-1.53	-1.37	-35.00	-30.37
772.408	-65.20	-62.30	-1.53	-1.37	-35.00	-30.19
772.576	-65.97	-63.07	-1.53	-1.37	-35.00	-30.96
773.716	-65.86	-62.95	-1.54	-1.37	-35.00	-30.85
774.376	-65.98	-63.06	-1.55	-1.37	-35.00	-30.97

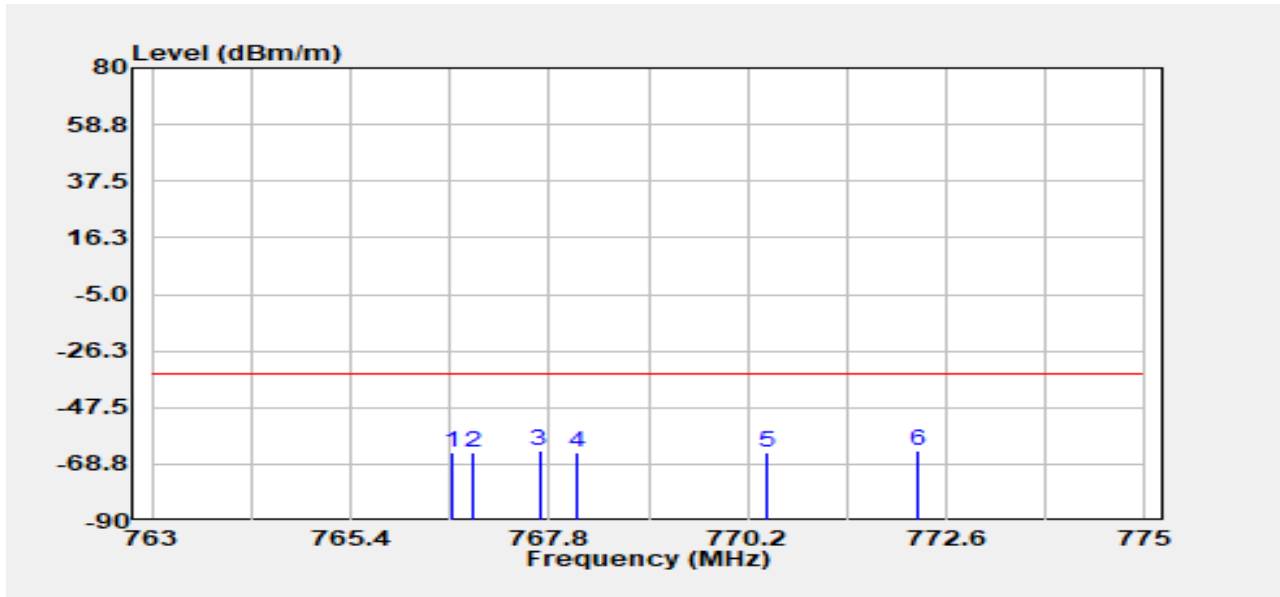
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.7/59
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
766.636	-64.45	-61.57	-1.48	-1.40	-35.00	-29.44
766.888	-64.40	-61.52	-1.49	-1.39	-35.00	-29.39
767.680	-63.95	-61.07	-1.49	-1.39	-35.00	-28.94
768.124	-64.18	-61.30	-1.50	-1.38	-35.00	-29.17
770.416	-64.23	-61.36	-1.51	-1.36	-35.00	-29.22
772.240	-63.53	-60.63	-1.53	-1.37	-35.00	-28.52

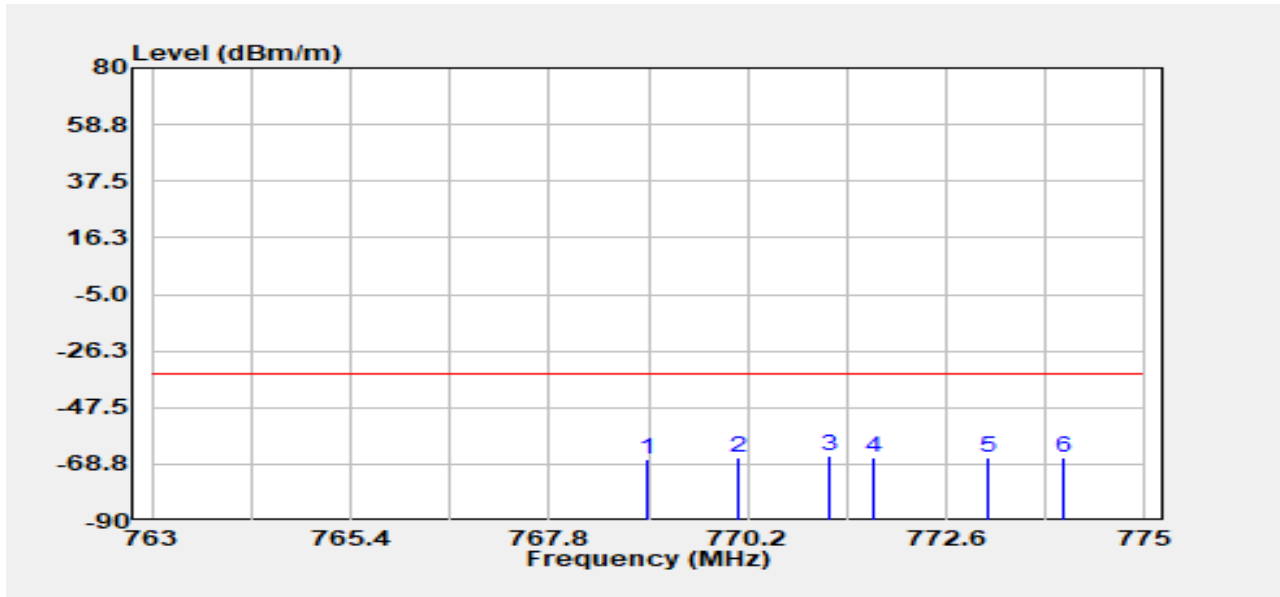
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.7/59
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
768.988	-66.73	-63.86	-1.50	-1.37	-35.00	-31.72
770.080	-66.20	-63.33	-1.51	-1.36	-35.00	-31.19
771.196	-65.44	-62.56	-1.52	-1.36	-35.00	-30.43
771.712	-66.12	-63.23	-1.52	-1.37	-35.00	-31.11
773.092	-66.54	-63.64	-1.53	-1.37	-35.00	-31.53
774.028	-66.14	-63.23	-1.54	-1.37	-35.00	-31.13

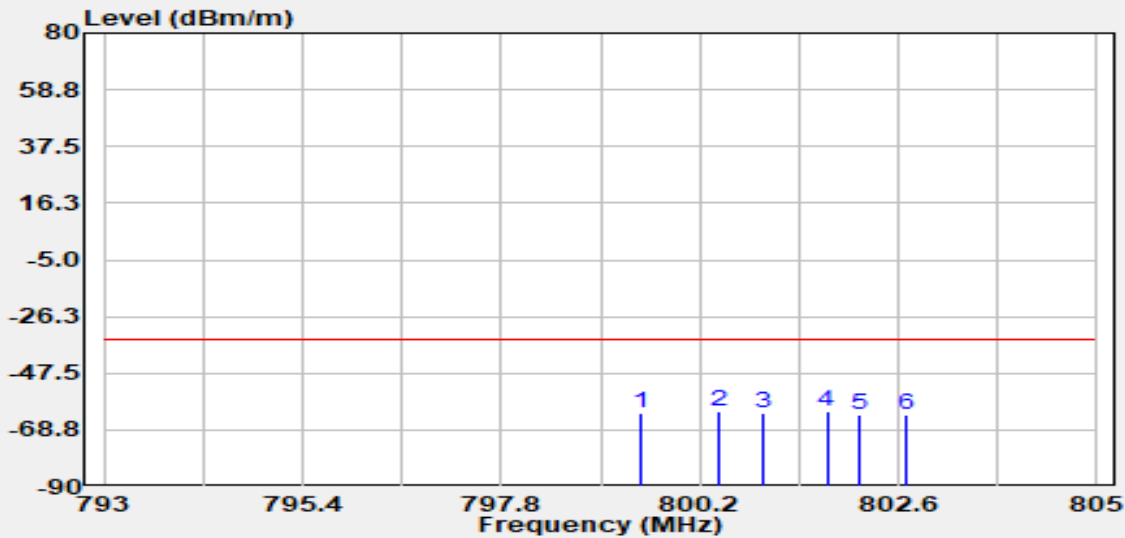
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Cat M1 Band 13 (793-805MHz)

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B13 QPSK	Test Date	:2020-12-16
Test Mode	:TX CH Mid	Temp./Humi.	:22.7/59
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:785.96 MHz	Engineer	:Ashton Chiu



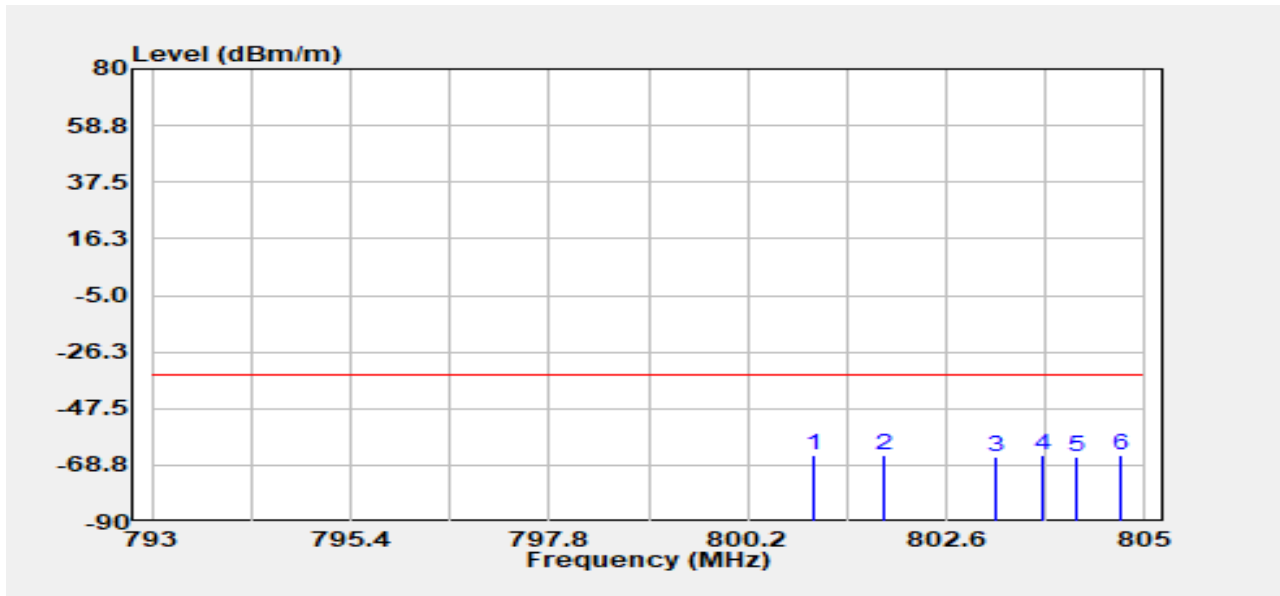
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
799.492	-62.38	-59.45	-1.31	-1.62	-35.00	-27.37
800.416	-61.99	-59.08	-1.27	-1.64	-35.00	-26.98
800.956	-62.64	-59.73	-1.27	-1.64	-35.00	-27.63
801.736	-61.79	-58.88	-1.26	-1.65	-35.00	-26.78
802.120	-62.96	-60.05	-1.25	-1.66	-35.00	-27.95
802.684	-62.85	-59.93	-1.25	-1.67	-35.00	-27.84

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Report Number :E2/2020/B0031
Operation Mode :M1 B13 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.7/59
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
800.992	-64.80	-61.89	-1.27	-1.64	-35.00	-29.79
801.844	-64.76	-61.85	-1.26	-1.65	-35.00	-29.75
803.200	-65.49	-62.58	-1.24	-1.67	-35.00	-30.48
803.752	-64.84	-61.93	-1.23	-1.68	-35.00	-29.83
804.172	-65.42	-62.51	-1.23	-1.68	-35.00	-30.41
804.700	-64.99	-62.08	-1.22	-1.69	-35.00	-29.98

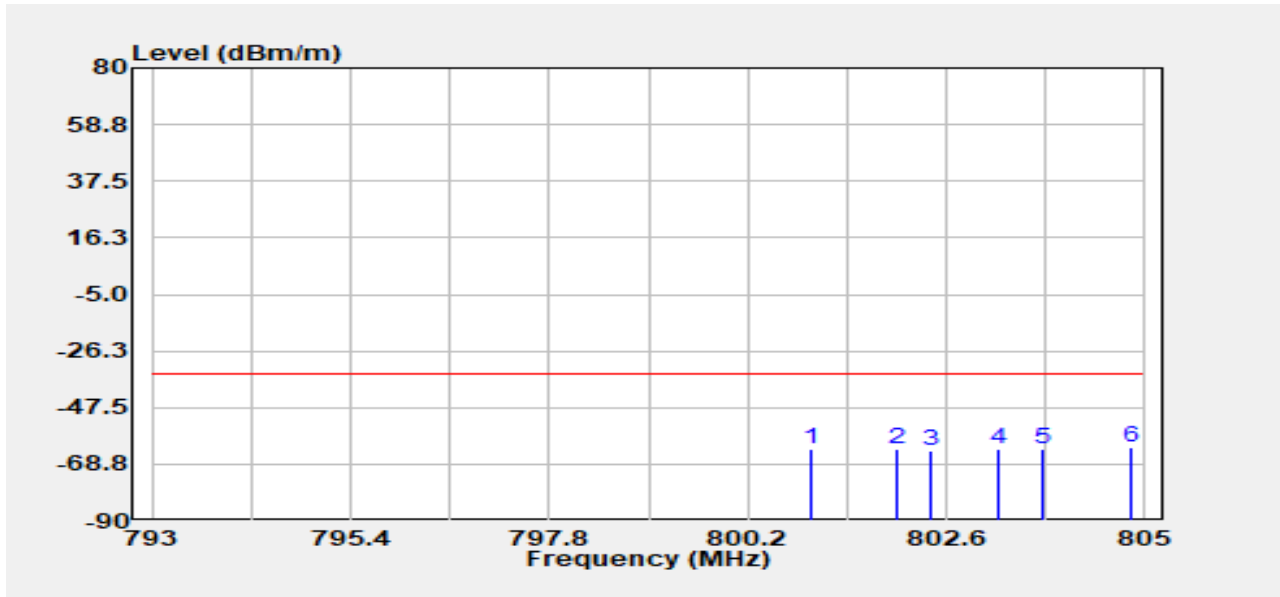
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.7/59
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
800.980	-63.05	-60.14	-1.27	-1.64	-35.00	-28.04
801.988	-62.79	-59.87	-1.26	-1.66	-35.00	-27.78
802.408	-63.39	-60.48	-1.25	-1.66	-35.00	-28.38
803.224	-63.00	-60.09	-1.24	-1.67	-35.00	-27.99
803.752	-62.90	-59.99	-1.23	-1.68	-35.00	-27.89
804.844	-62.29	-59.38	-1.22	-1.69	-35.00	-27.28

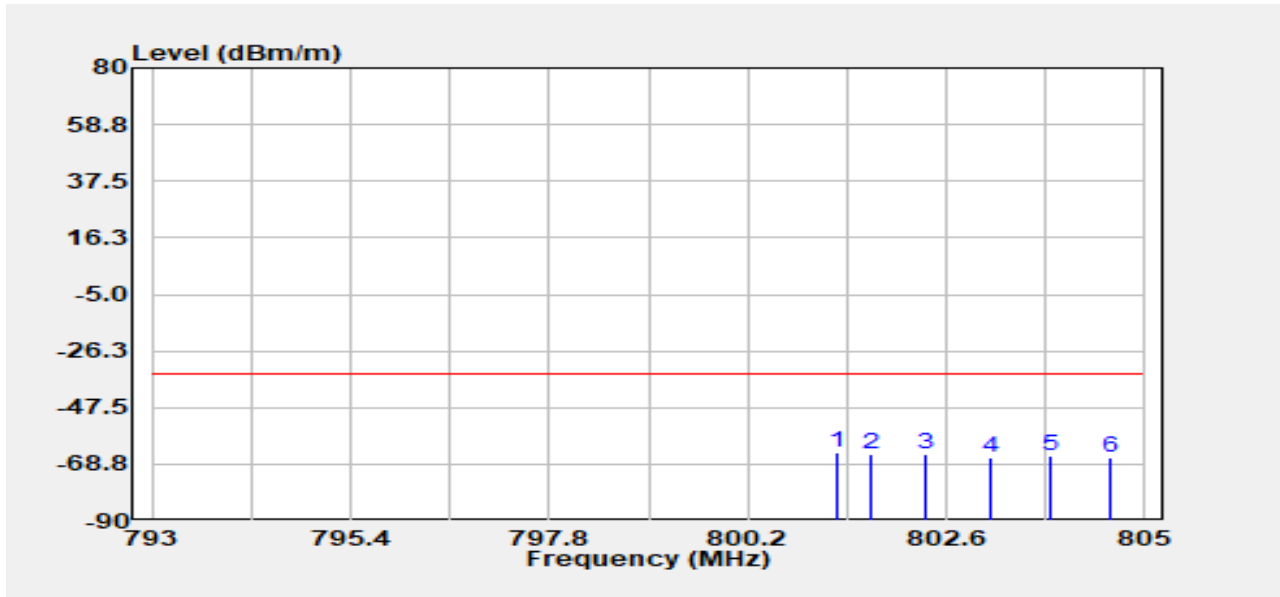
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Report Number :E2/2020/B0031
Operation Mode :M1 B13 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :785.96 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :22.7/59
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
801.268	-64.17	-61.26	-1.26	-1.65	-35.00	-29.16
801.688	-65.05	-62.14	-1.26	-1.65	-35.00	-30.04
802.336	-65.27	-62.36	-1.25	-1.66	-35.00	-30.26
803.140	-65.94	-63.03	-1.24	-1.67	-35.00	-30.93
803.860	-65.35	-62.44	-1.23	-1.68	-35.00	-30.34
804.592	-65.96	-63.05	-1.22	-1.69	-35.00	-30.95

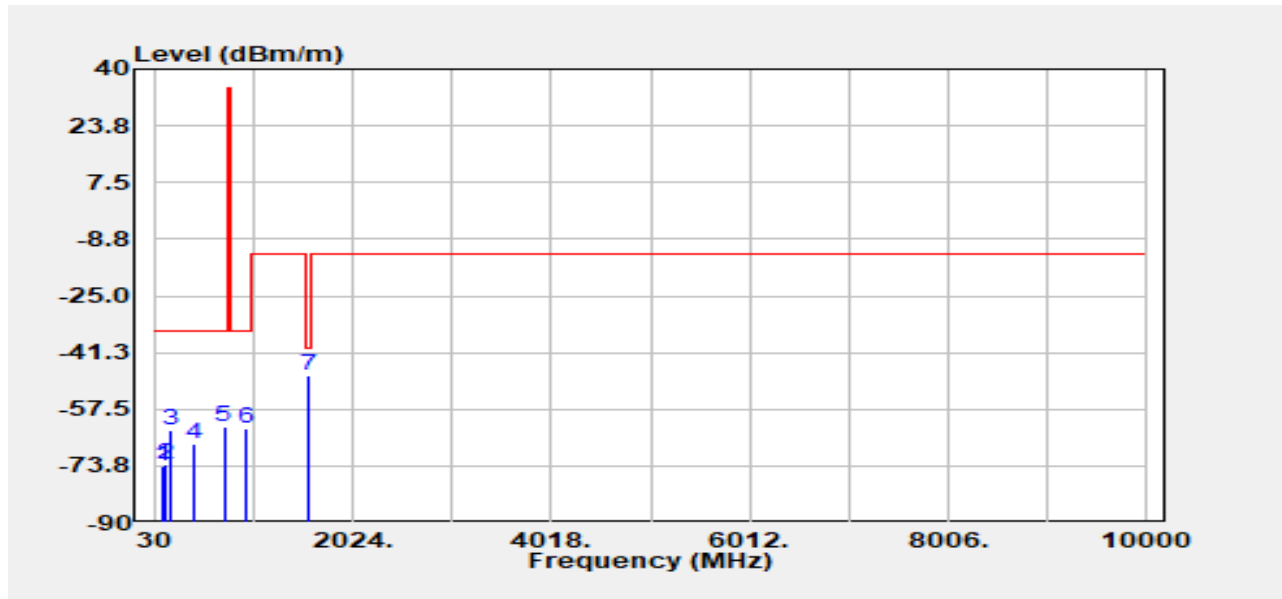
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Cat M1 Band 14

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B14 QPSK	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.3/66
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:789.25 MHz	Engineer	:Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
117.300	-73.74	-66.38	-6.76	-0.60	-35.00	-38.73
139.610	-73.52	-65.87	-7.04	-0.61	-35.00	-38.51
196.840	-63.57	-61.53	-1.24	-0.80	-35.00	-28.56
423.820	-67.43	-65.46	-0.75	-1.22	-35.00	-32.42
732.280	-62.64	-59.49	-1.19	-1.96	-35.00	-27.63
950.530	-63.12	-59.96	-1.38	-1.78	-35.00	-28.11
1578.500	-47.68	-52.06	9.27	-4.89	-40.00	-7.67

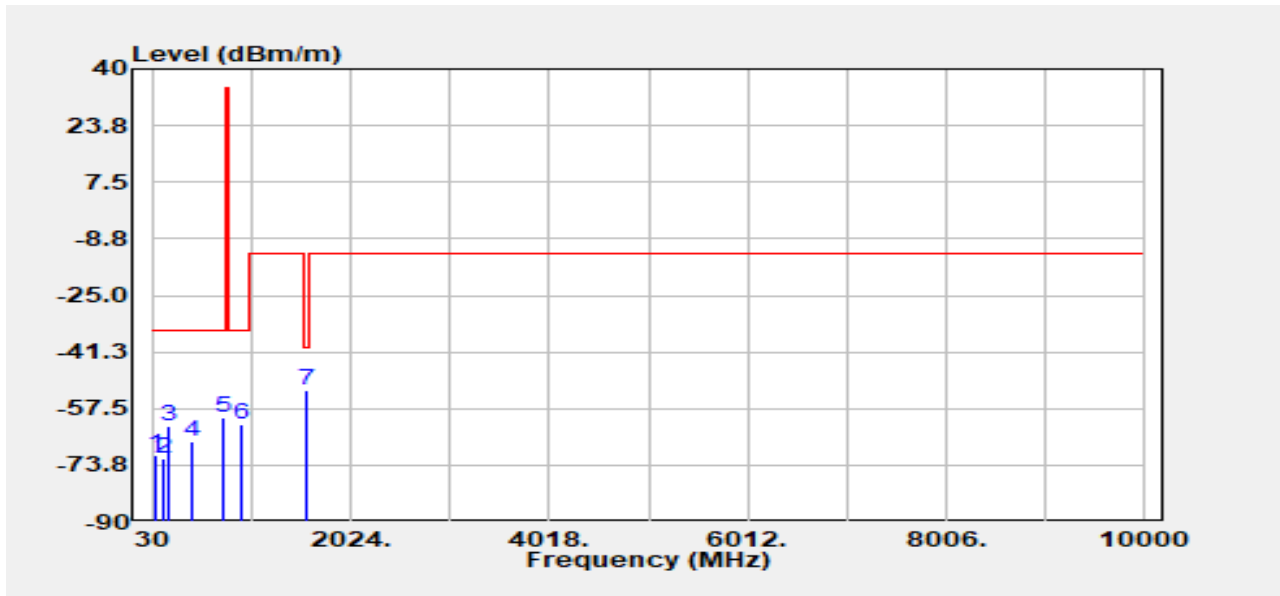
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Report Number :E2/2020/B0031
Operation Mode :M1 B14 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :789.25 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.980	-70.72	-56.35	-13.95	-0.42	-35.00	-35.71
140.580	-71.87	-64.27	-6.99	-0.61	-35.00	-36.86
196.840	-62.49	-60.45	-1.24	-0.80	-35.00	-27.48
425.760	-67.11	-65.12	-0.79	-1.20	-35.00	-32.10
737.130	-60.06	-56.89	-1.27	-1.90	-35.00	-25.05
935.010	-62.03	-58.86	-1.42	-1.75	-35.00	-27.02
1578.500	-52.26	-56.64	9.27	-4.89	-40.00	-12.25

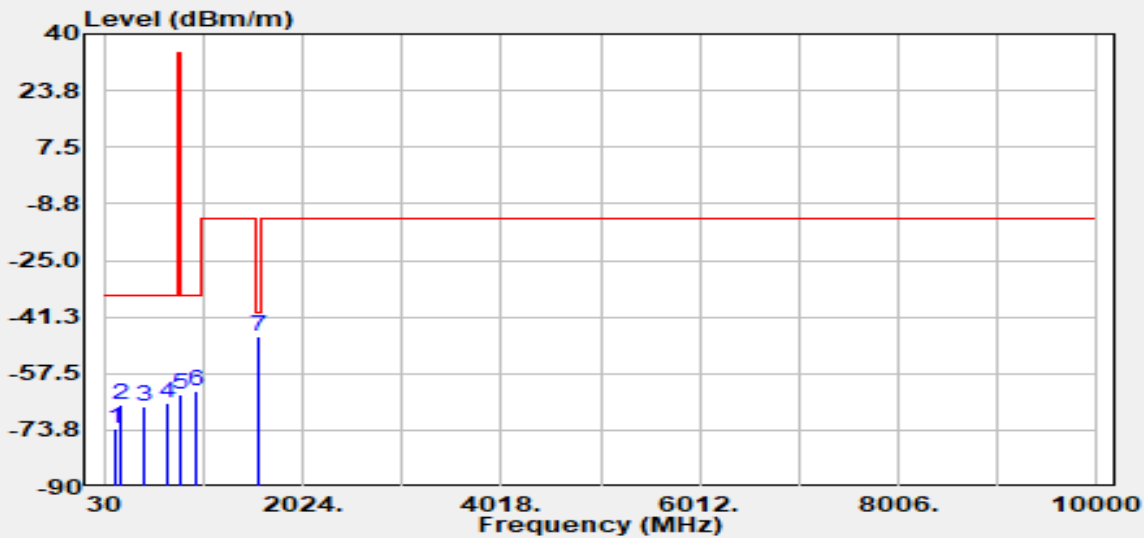
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Report Number :E2/2020/B0031
Operation Mode :M1 B14 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :789.25 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/66
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
144.460	-73.39	-65.71	-7.04	-0.64	-35.00	-38.38
196.840	-66.32	-64.28	-1.24	-0.80	-35.00	-31.31
430.610	-67.14	-65.10	-0.88	-1.16	-35.00	-32.13
671.170	-65.91	-63.26	-1.00	-1.65	-35.00	-30.90
795.330	-63.48	-60.40	-1.51	-1.57	-35.00	-28.47
944.710	-62.51	-59.31	-1.43	-1.77	-35.00	-27.50
1578.500	-46.85	-51.23	9.27	-4.89	-40.00	-6.84

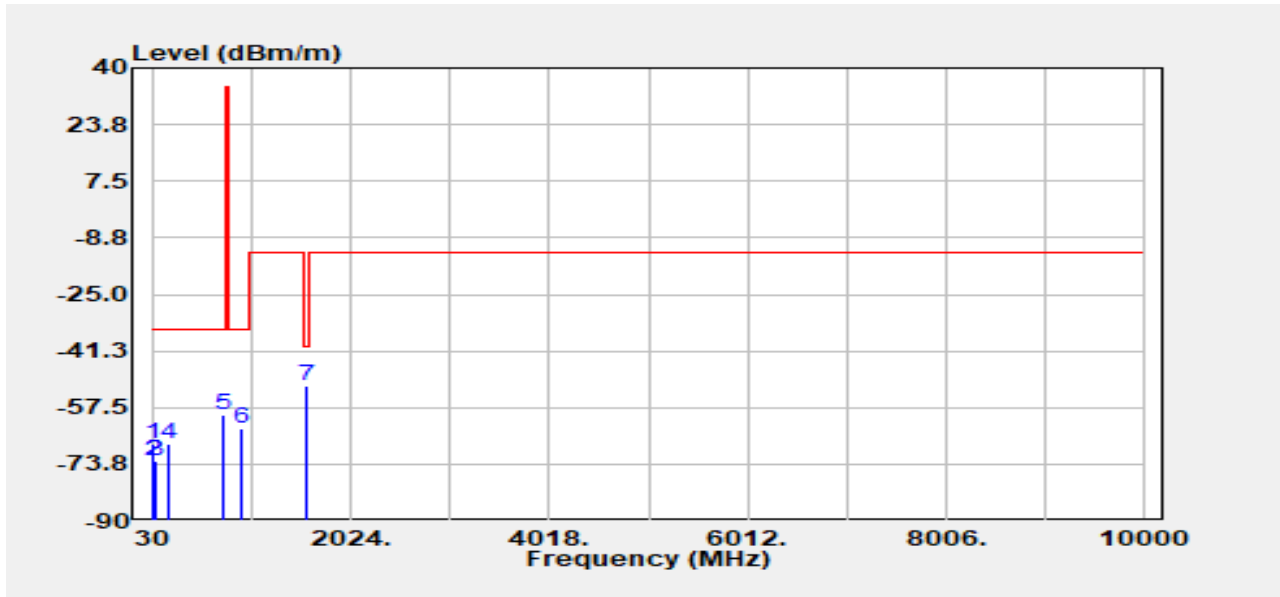
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Report Number :E2/2020/B0031
Operation Mode :M1 B14 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :789.25 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.3/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-67.82	-48.60	-18.97	-0.25	-35.00	-32.81
51.340	-72.96	-56.03	-16.60	-0.33	-35.00	-37.95
62.010	-73.04	-58.53	-14.09	-0.42	-35.00	-38.03
196.840	-67.77	-65.73	-1.24	-0.80	-35.00	-32.76
740.040	-59.75	-56.53	-1.36	-1.86	-35.00	-24.74
936.950	-63.50	-60.31	-1.44	-1.75	-35.00	-28.49
1578.500	-51.08	-55.46	9.27	-4.89	-40.00	-11.07

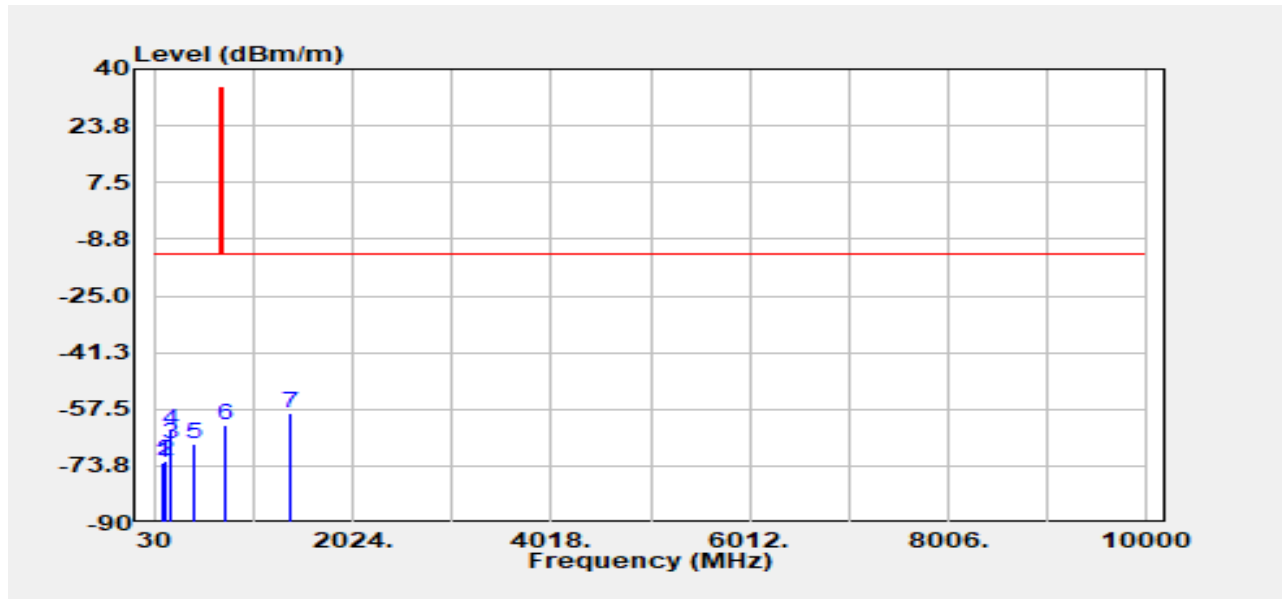
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Cat M1 Band 17

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B17 QPSK	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.2/64
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:705.17 MHz	Engineer	:Ashton Chiu



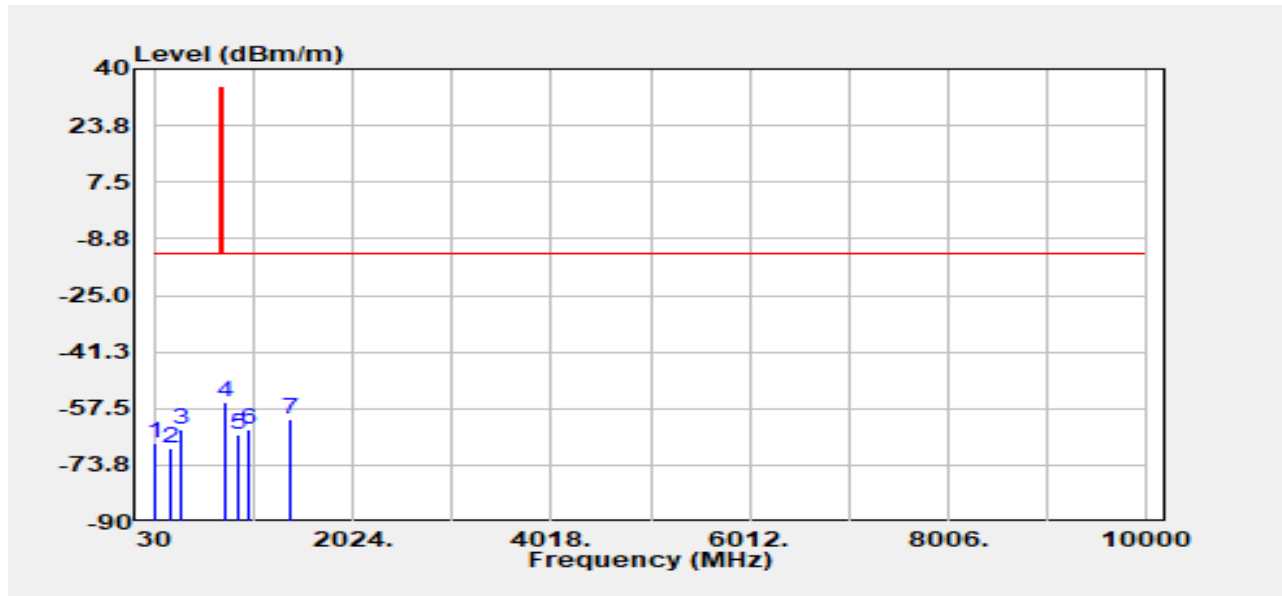
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
116.330	-72.69	-65.46	-6.63	-0.60	-13.00	-59.68
142.520	-72.53	-64.89	-7.01	-0.63	-13.00	-59.52
190.050	-67.66	-64.80	-2.05	-0.81	-13.00	-54.65
197.810	-63.70	-61.68	-1.22	-0.80	-13.00	-50.69
428.670	-67.64	-65.63	-0.84	-1.17	-13.00	-54.63
737.130	-61.81	-58.64	-1.27	-1.90	-13.00	-48.80
1410.340	-58.38	-61.66	7.68	-4.40	-13.00	-45.37

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Report Number :E2/2020/B0031
Operation Mode :M1 B17 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :705.17 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.2/64
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
33.880	-67.53	-47.97	-19.31	-0.25	-13.00	-54.52
197.810	-68.91	-66.89	-1.22	-0.80	-13.00	-55.90
301.600	-63.41	-61.39	-0.98	-1.04	-13.00	-50.40
745.860	-55.74	-52.49	-1.51	-1.74	-13.00	-42.73
882.630	-65.08	-62.33	-1.02	-1.73	-13.00	-52.07
983.510	-63.64	-60.58	-1.18	-1.88	-13.00	-50.63
1410.340	-60.67	-63.95	7.68	-4.40	-13.00	-47.66

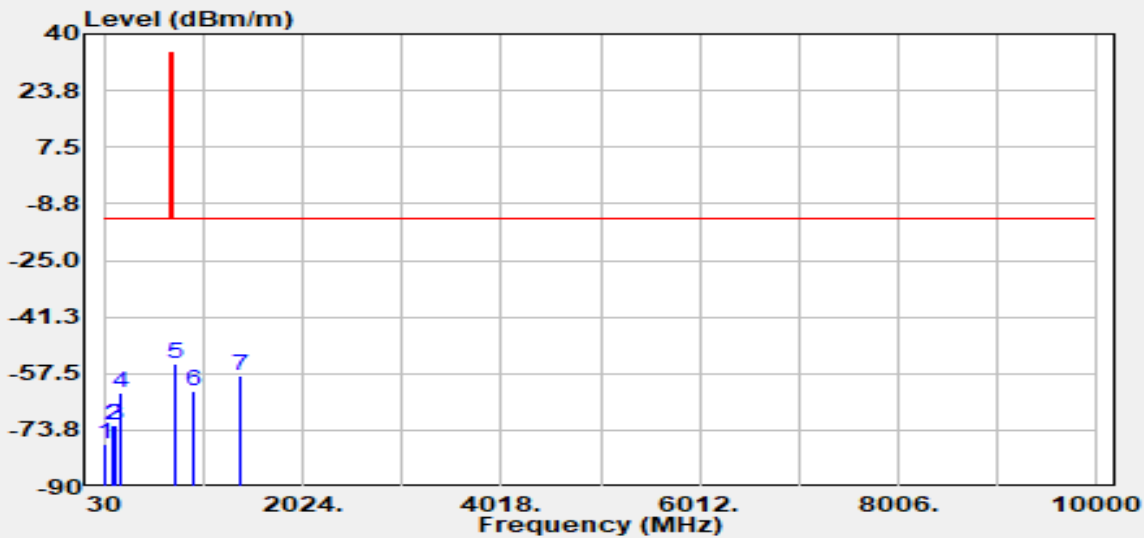
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Report Number :E2/2020/B0031
Operation Mode :M1 B17 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :705.17 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.2/64
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.310	-77.72	-60.98	-16.40	-0.34	-13.00	-64.71
120.210	-72.25	-64.82	-6.82	-0.61	-13.00	-59.24
141.550	-72.41	-64.81	-6.98	-0.62	-13.00	-59.40
196.840	-63.02	-60.98	-1.24	-0.80	-13.00	-50.01
746.830	-54.85	-51.62	-1.51	-1.72	-13.00	-41.84
933.070	-62.53	-59.39	-1.40	-1.74	-13.00	-49.52
1410.340	-58.00	-61.28	7.68	-4.40	-13.00	-44.99

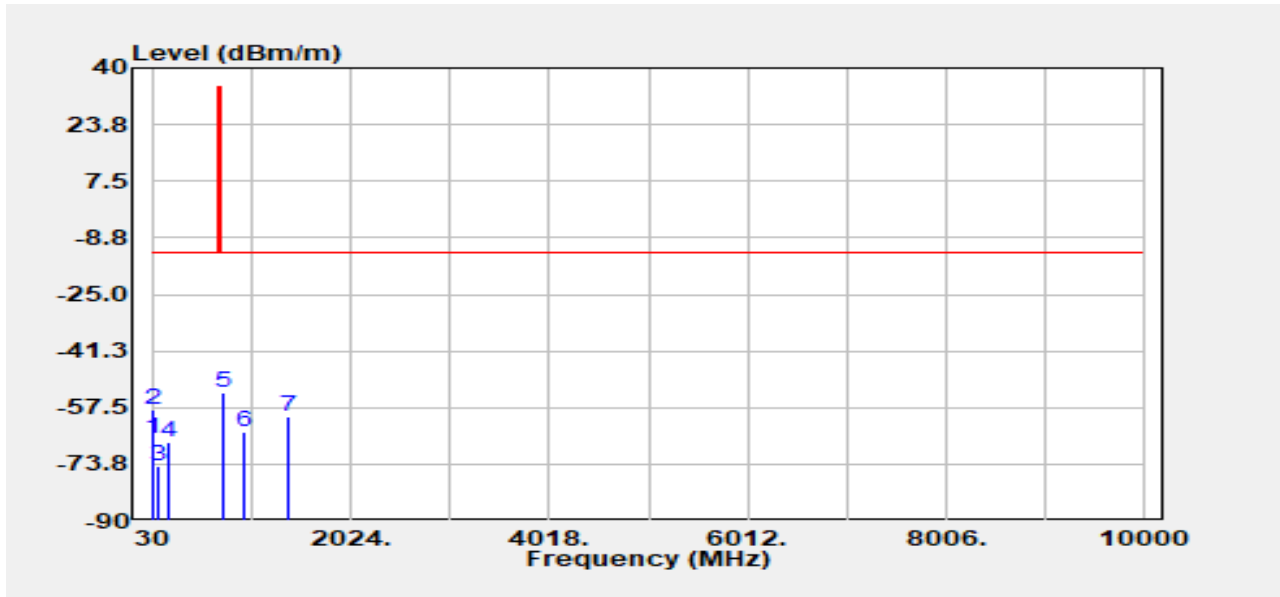
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Report Number :E2/2020/B0031
Operation Mode :M1 B17 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :705.17 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.2/64
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.790	-66.58	-47.35	-18.97	-0.26	-13.00	-53.57
49.400	-58.21	-40.85	-17.05	-0.31	-13.00	-45.20
89.170	-74.37	-68.14	-5.75	-0.48	-13.00	-61.36
196.840	-67.47	-65.43	-1.24	-0.80	-13.00	-54.46
746.830	-53.22	-49.99	-1.51	-1.72	-13.00	-40.21
945.680	-64.37	-61.18	-1.42	-1.77	-13.00	-51.36
1410.340	-60.27	-63.55	7.68	-4.40	-13.00	-47.26

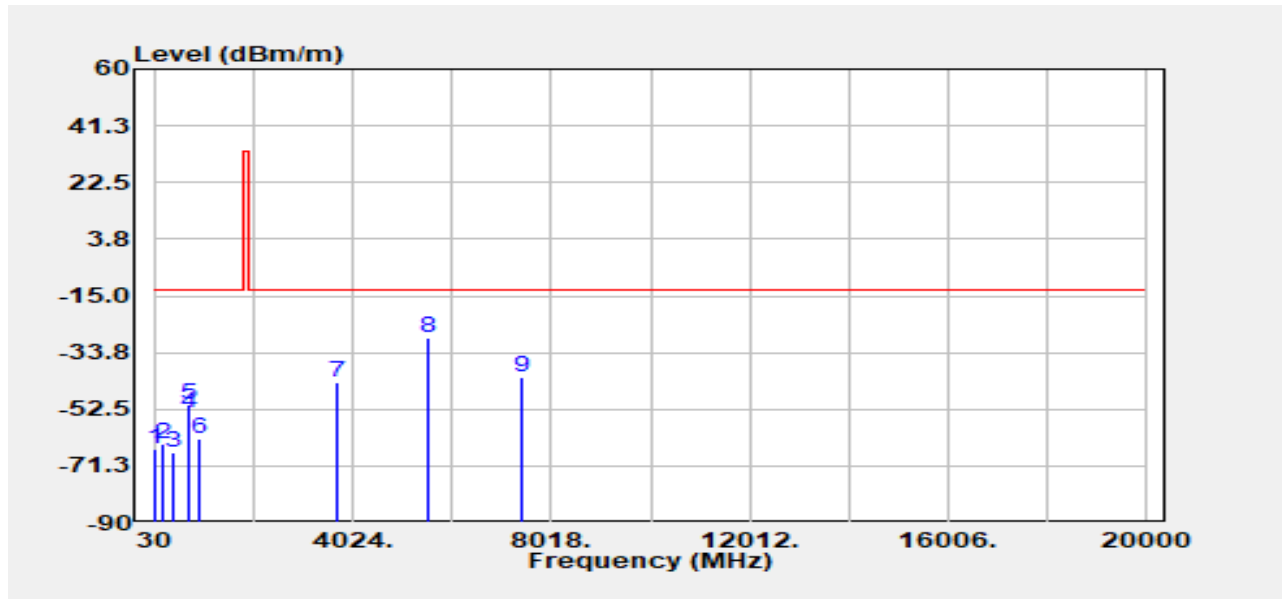
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Cat M1 Band 25

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B25 QPSK	Test Date	:2020-12-16
Test Mode	:TX CH Mid	Temp./Humi.	:21.4/60
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:1850.8 MHz	Engineer	:Ashton Chiu



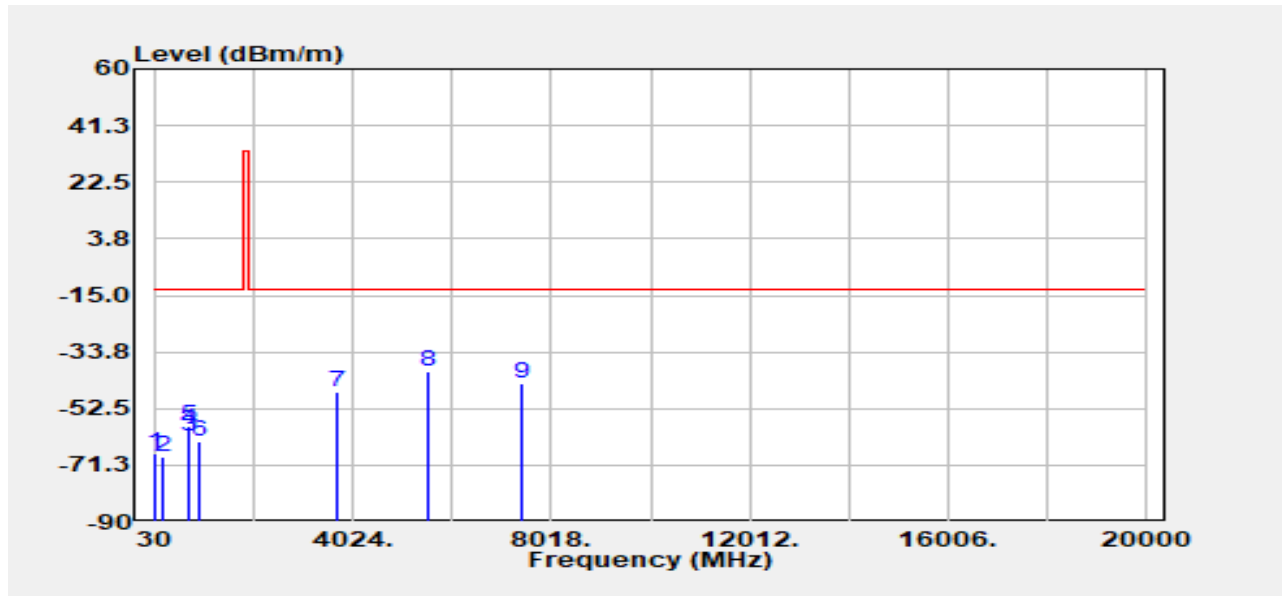
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
63.950	-65.57	-51.22	-13.92	-0.43	-13.00	-52.56
197.810	-64.13	-62.11	-1.22	-0.80	-13.00	-51.12
420.910	-66.82	-64.87	-0.70	-1.25	-13.00	-53.81
731.310	-53.83	-50.68	-1.18	-1.97	-13.00	-40.82
743.920	-51.02	-47.77	-1.47	-1.78	-13.00	-38.01
949.560	-62.43	-59.26	-1.39	-1.78	-13.00	-49.42
3701.600	-43.51	-47.77	12.29	-8.03	-13.00	-30.50
5552.400	-29.00	-33.66	12.90	-8.24	-13.00	-15.99
7403.200	-41.78	-41.98	11.00	-10.80	-13.00	-28.77

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Report Number :E2/2020/B0031
Operation Mode :M1 B25 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency : 1850.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.4/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.850	-67.22	-47.70	-19.27	-0.25	-13.00	-54.21
197.810	-68.69	-66.67	-1.22	-0.80	-13.00	-55.68
730.340	-61.92	-58.76	-1.17	-1.99	-13.00	-48.91
740.040	-59.58	-56.36	-1.36	-1.86	-13.00	-46.57
745.860	-58.36	-55.11	-1.51	-1.74	-13.00	-45.35
948.590	-63.65	-60.47	-1.40	-1.78	-13.00	-50.64
3701.600	-47.22	-51.48	12.29	-8.03	-13.00	-34.21
5552.400	-40.28	-44.92	12.90	-8.26	-13.00	-27.27
7403.200	-44.29	-44.49	10.99	-10.79	-13.00	-31.28

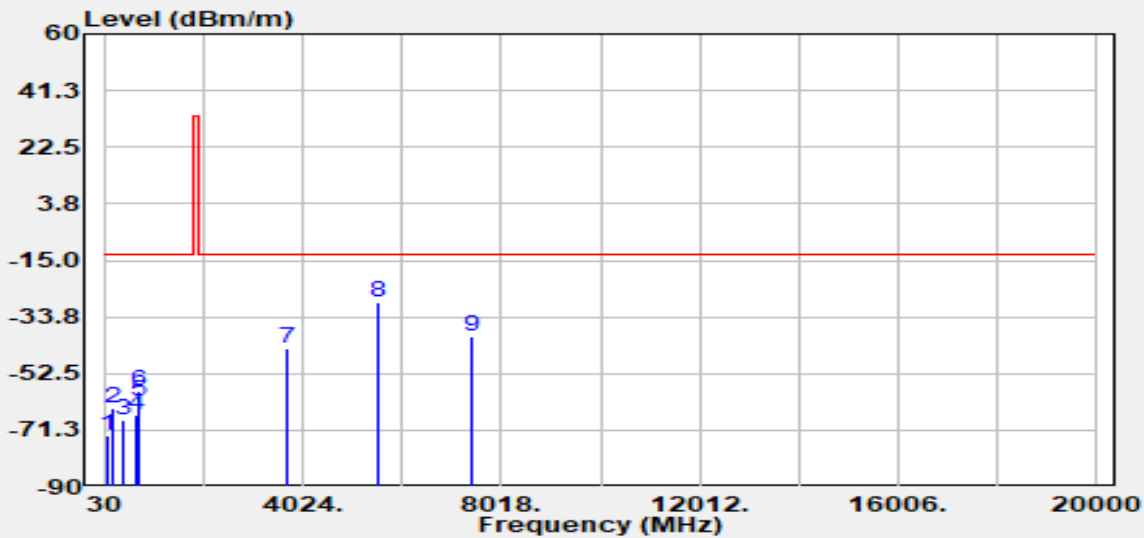
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Report Number :E2/2020/B0031
Operation Mode :M1 B25 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency : 1850.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.5/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-73.28	-66.03	-6.65	-0.60	-13.00	-60.27
196.840	-63.81	-61.77	-1.24	-0.80	-13.00	-50.80
421.880	-67.82	-65.87	-0.71	-1.24	-13.00	-54.81
674.080	-66.28	-63.73	-0.96	-1.59	-13.00	-53.27
730.340	-61.63	-58.47	-1.17	-1.99	-13.00	-48.62
746.830	-58.44	-55.21	-1.51	-1.72	-13.00	-45.43
3701.600	-44.37	-48.63	12.29	-8.03	-13.00	-31.36
5552.400	-29.11	-33.77	12.90	-8.24	-13.00	-16.10
7403.200	-39.97	-40.17	11.00	-10.80	-13.00	-26.96

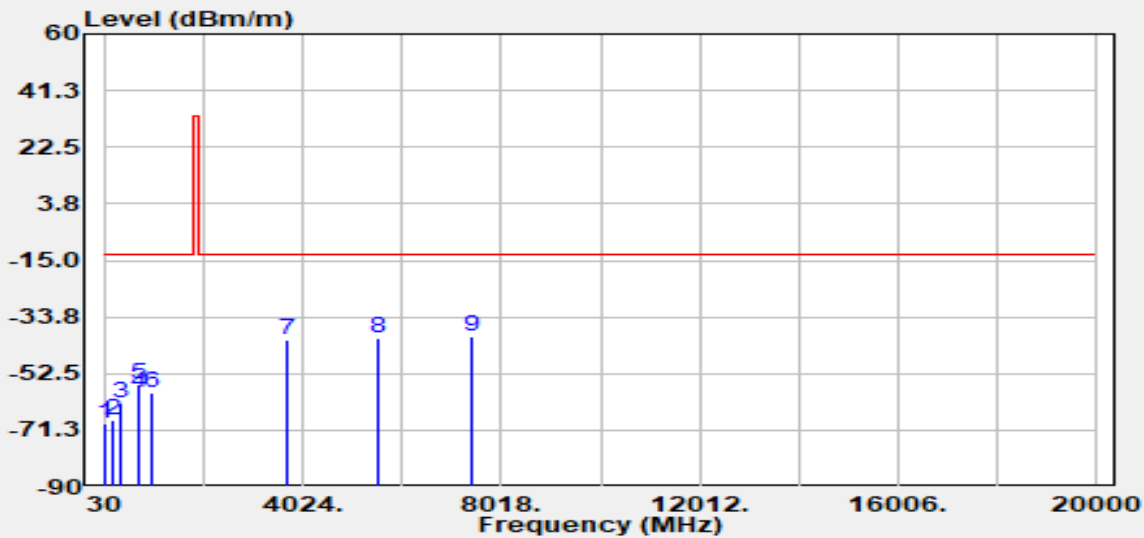
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Report Number :E2/2020/B0031
Operation Mode :M1 B25 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency : 1850.8 MHz

Test Site :966 Chamber C
Test Date :2020-12-16
Temp./Humi. :21.5/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-68.90	-49.68	-18.97	-0.25	-13.00	-55.89
196.840	-68.08	-66.04	-1.24	-0.80	-13.00	-55.07
377.260	-62.52	-60.85	-0.55	-1.12	-13.00	-49.51
730.340	-59.01	-55.85	-1.17	-1.99	-13.00	-46.00
744.890	-56.00	-52.74	-1.50	-1.76	-13.00	-42.99
1000.000	-58.88	-54.12	-1.04	-3.72	-13.00	-45.87
3701.600	-41.27	-45.53	12.29	-8.03	-13.00	-28.26
5552.400	-40.99	-45.65	12.90	-8.24	-13.00	-27.98
7403.200	-40.04	-40.24	11.00	-10.80	-13.00	-27.03

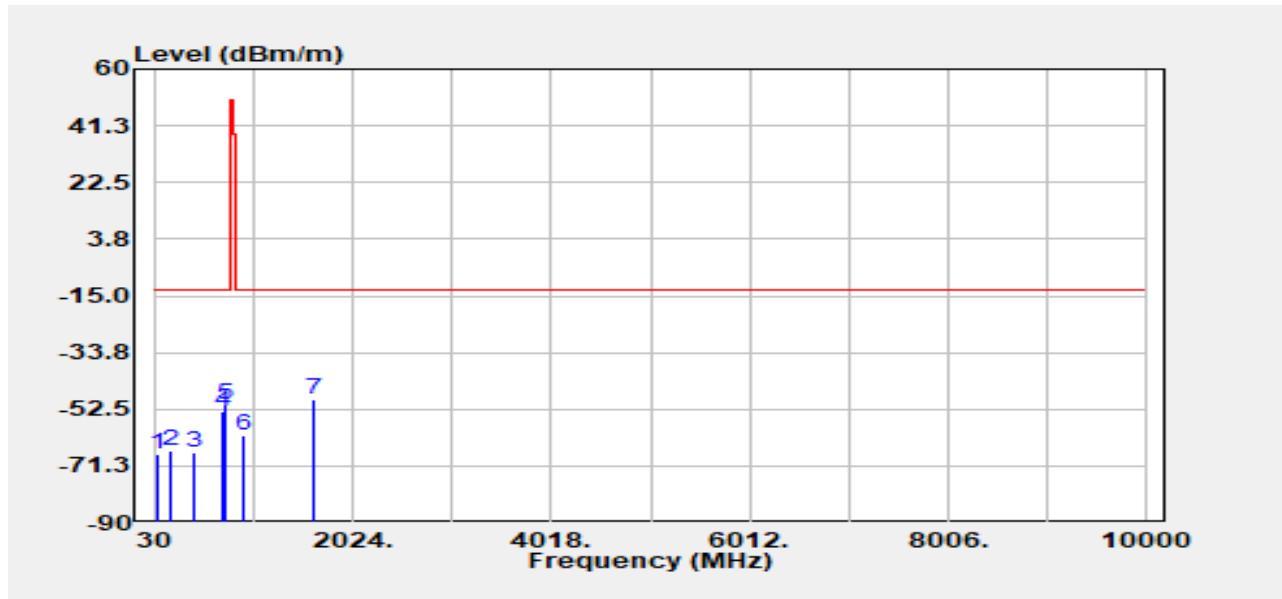
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Cat M1 Band 26

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 B26 QPSK	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.4/67
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:814.79 MHz	Engineer	:Ashton Chiu



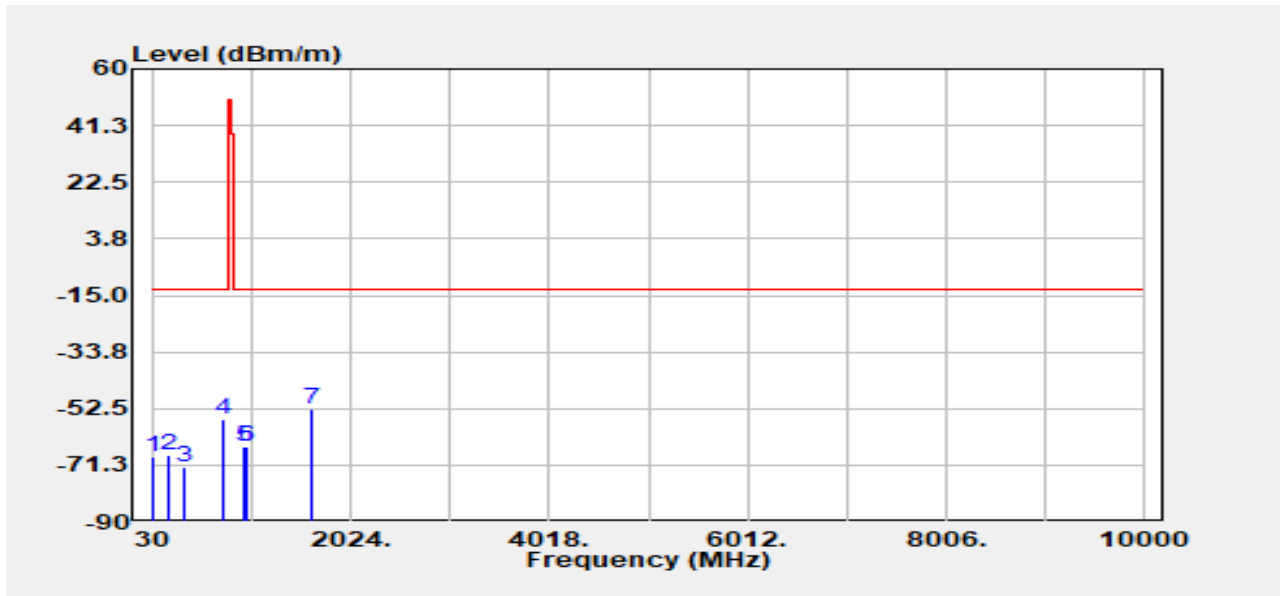
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.890	-67.51	-53.96	-13.10	-0.45	-13.00	-54.50
197.810	-65.97	-63.95	-1.22	-0.80	-13.00	-52.96
424.790	-66.76	-64.78	-0.77	-1.21	-13.00	-53.75
730.340	-52.94	-49.78	-1.17	-1.99	-13.00	-39.93
744.890	-51.07	-47.81	-1.50	-1.76	-13.00	-38.06
934.040	-60.98	-57.83	-1.41	-1.74	-13.00	-47.97
1629.580	-49.28	-53.60	9.46	-5.14	-13.00	-36.27

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Report Number :E2/2020/B0031
Operation Mode :M1 B26 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :814.79 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
36.790	-68.41	-49.18	-18.97	-0.26	-13.00	-55.40
196.840	-67.89	-65.85	-1.24	-0.80	-13.00	-54.88
348.160	-71.70	-70.18	-0.40	-1.12	-13.00	-58.69
733.250	-55.94	-52.79	-1.20	-1.95	-13.00	-42.93
945.680	-65.18	-61.99	-1.42	-1.77	-13.00	-52.17
980.600	-64.82	-61.74	-1.21	-1.87	-13.00	-51.81
1629.580	-52.48	-56.80	9.46	-5.14	-13.00	-39.47

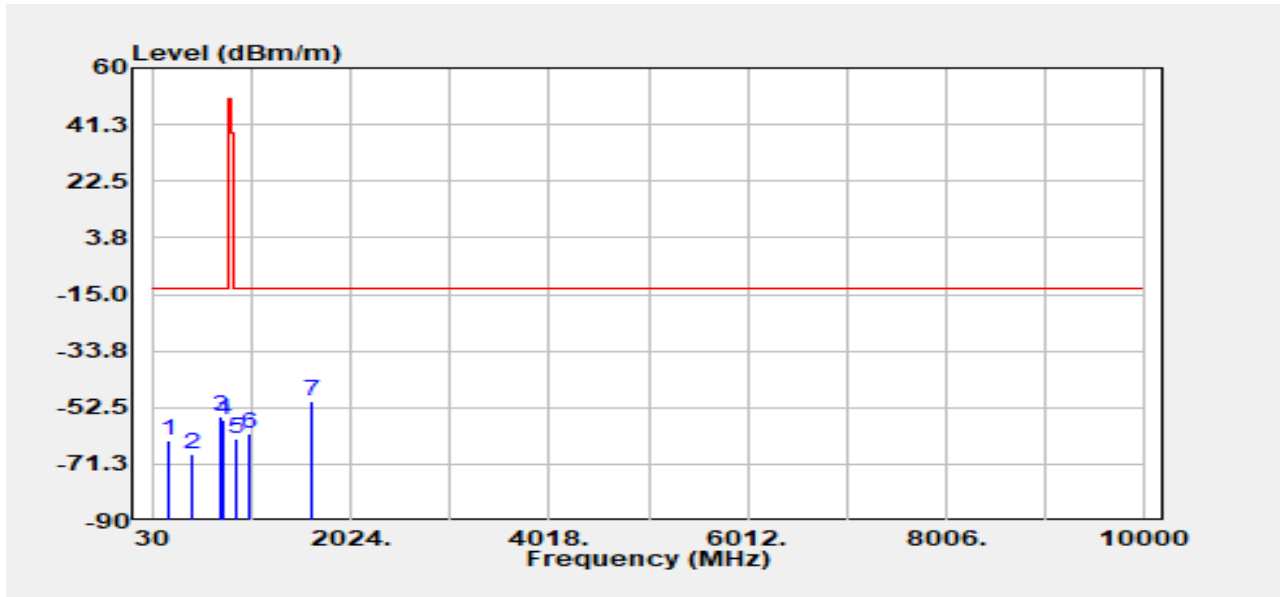
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Report Number :E2/2020/B0031
Operation Mode :M1 B26 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :814.79 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
196.840	-63.12	-61.08	-1.24	-0.80	-13.00	-50.11
422.850	-67.78	-65.82	-0.73	-1.23	-13.00	-54.77
730.340	-55.28	-52.12	-1.17	-1.99	-13.00	-42.27
744.890	-56.60	-53.34	-1.50	-1.76	-13.00	-43.59
884.570	-62.87	-60.10	-1.00	-1.77	-13.00	-49.86
1000.000	-61.35	-56.59	-1.04	-3.72	-13.00	-48.34
1629.580	-50.41	-54.73	9.46	-5.14	-13.00	-37.40

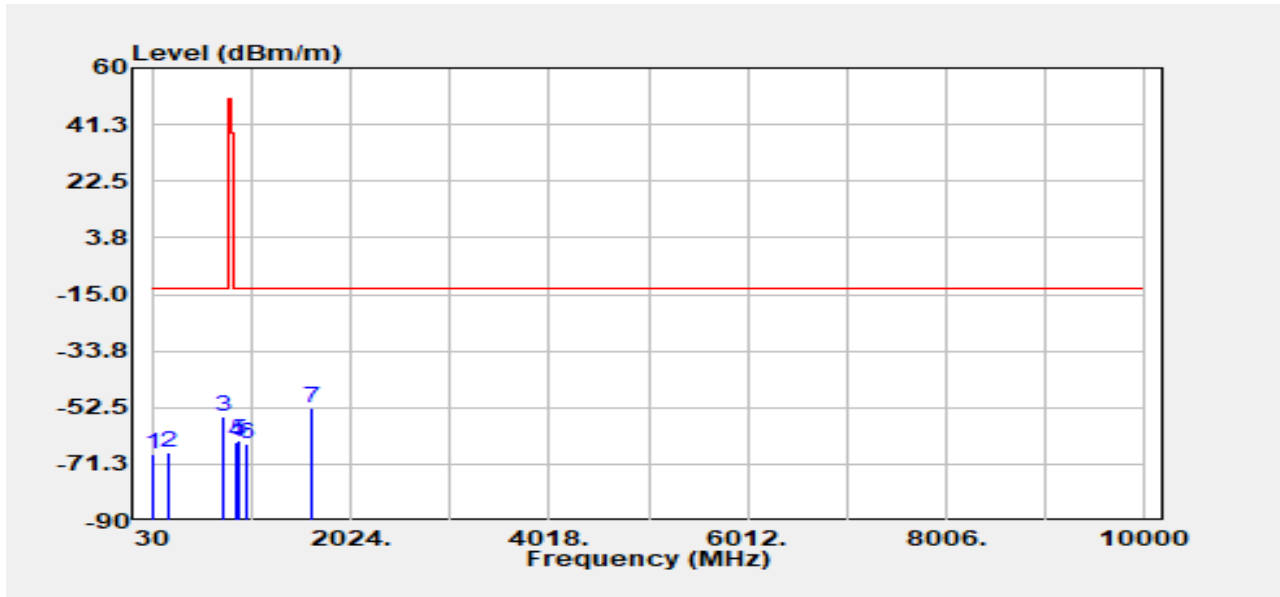
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Report Number :E2/2020/B0031
Operation Mode :M1 B26 16QAM
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :814.79 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-67.98	-48.76	-18.97	-0.25	-13.00	-54.97
196.840	-67.42	-65.38	-1.24	-0.80	-13.00	-54.41
745.860	-55.63	-52.38	-1.51	-1.74	-13.00	-42.62
885.540	-63.78	-60.98	-1.01	-1.79	-13.00	-50.77
911.730	-63.31	-60.18	-1.28	-1.85	-13.00	-50.30
981.570	-64.48	-61.40	-1.20	-1.88	-13.00	-51.47
1629.580	-52.38	-56.70	9.46	-5.14	-13.00	-39.37

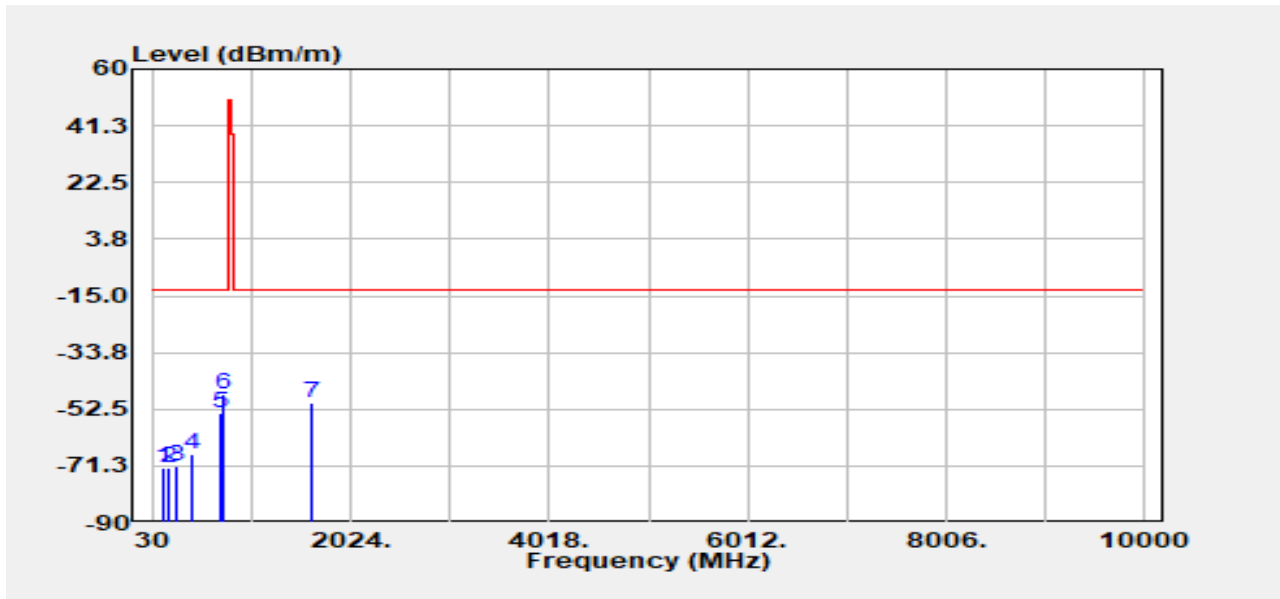
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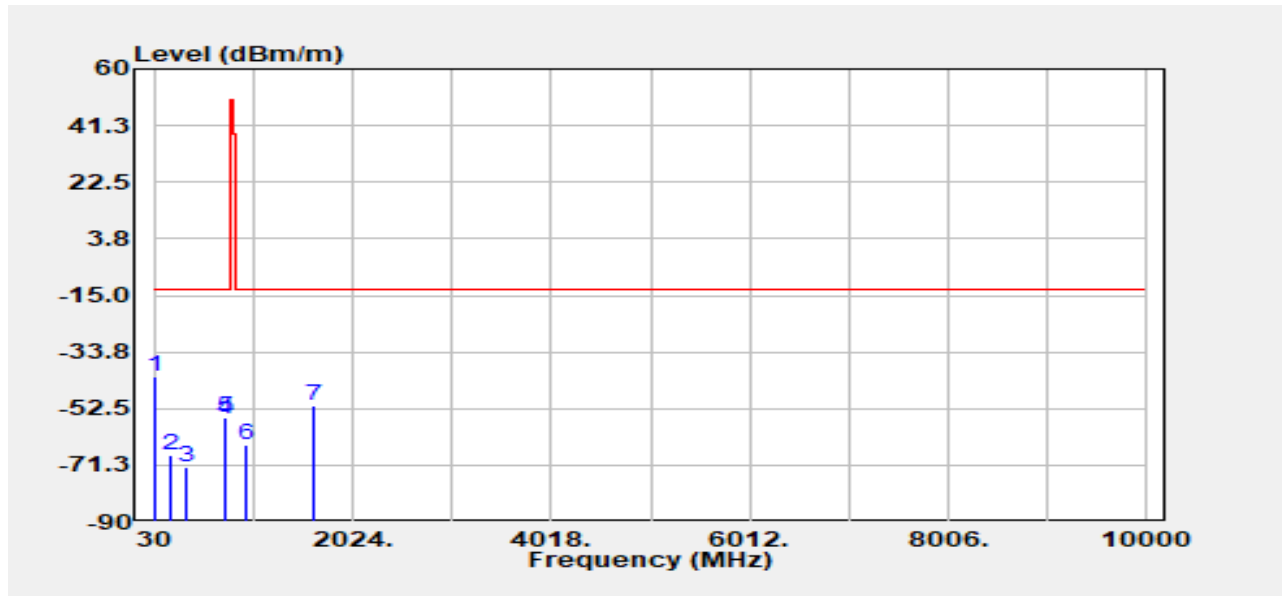
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Cat M1 Band 26 (Part 90s)

Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 Part 90 B26 QPSK	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.4/67
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:814.7 MHz	Engineer	:Ashton Chiu



Report Number :E2/2020/B0031
Operation Mode :M1 Part 90 B26 QPSK
Test Mode :TX CH Mid
EUT Pol :E2 Plan
Test Frequency :814.7 MHz

Test Site :966 Chamber C
Test Date :2020-12-14
Temp./Humi. :21.4/67
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


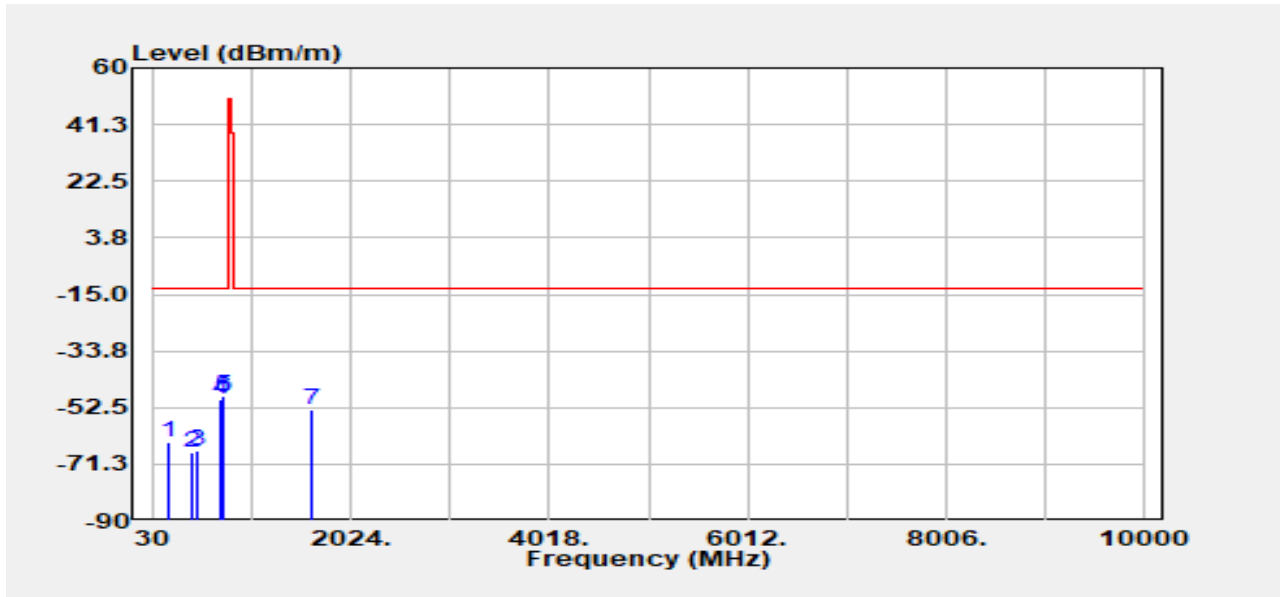
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-42.15	-22.93	-18.97	-0.25	-13.00	-29.14
197.810	-68.10	-66.08	-1.22	-0.80	-13.00	-55.09
362.710	-72.13	-70.64	-0.50	-0.99	-13.00	-59.12
740.040	-56.15	-52.93	-1.36	-1.86	-13.00	-43.14
746.830	-55.37	-52.14	-1.51	-1.72	-13.00	-42.36
942.770	-64.49	-61.27	-1.45	-1.77	-13.00	-51.48
1629.400	-51.67	-55.99	9.46	-5.14	-13.00	-38.66

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 Part 90 B26 16QAM	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.4/67
EUT Pol	:E2 Plan	Antenna Pol.	:Vertical
Test Frequency	:814.7 MHz	Engineer	:Ashton Chiu



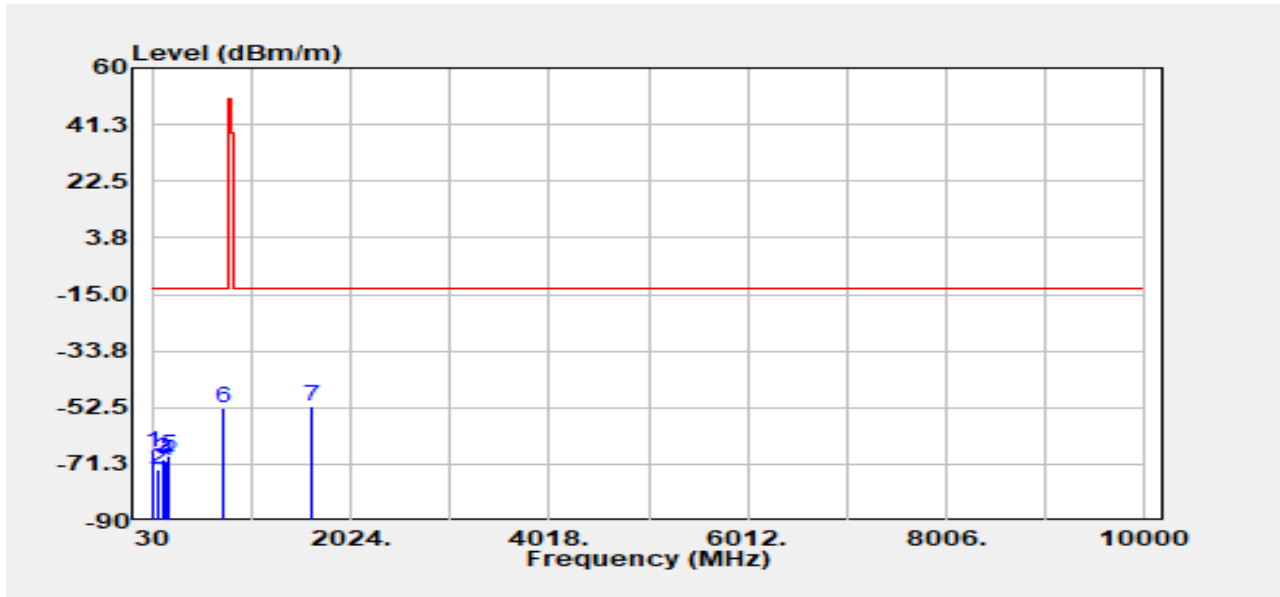
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
196.840	-63.84	-61.80	-1.24	-0.80	-13.00	-50.83
424.790	-67.22	-65.24	-0.77	-1.21	-13.00	-54.21
489.780	-66.58	-64.34	-0.64	-1.60	-13.00	-53.57
730.340	-50.02	-46.86	-1.17	-1.99	-13.00	-37.01
737.130	-48.81	-45.64	-1.27	-1.90	-13.00	-35.80
746.830	-49.08	-45.85	-1.51	-1.72	-13.00	-36.07
1629.400	-52.97	-57.29	9.46	-5.14	-13.00	-39.96

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Report Number	:E2/2020/B0031	Test Site	:966 Chamber C
Operation Mode	:M1 Part 90 B26 16QAM	Test Date	:2020-12-14
Test Mode	:TX CH Mid	Temp./Humi.	:21.4/67
EUT Pol	:E2 Plan	Antenna Pol.	:Horizontal
Test Frequency	:814.7 MHz	Engineer	:Ashton Chiu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-67.54	-48.02	-19.27	-0.25	-13.00	-54.53
97.900	-73.07	-66.92	-5.62	-0.53	-13.00	-60.06
134.760	-69.84	-62.13	-7.10	-0.61	-13.00	-56.83
173.560	-70.39	-64.76	-4.94	-0.69	-13.00	-57.38
196.840	-68.73	-66.69	-1.24	-0.80	-13.00	-55.72
746.830	-52.49	-49.26	-1.51	-1.72	-13.00	-39.48
1629.400	-51.95	-56.27	9.46	-5.14	-13.00	-38.94

~ End of Report ~

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