



REPORT No.: SZ21070331W09

TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic AirSurf 5G UW

MODEL NAME : R141TL5

BRAND NAME : Orbic

FCC ID : 2ABGH-R141TL5

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&L
47 CFR Part 27, Subpart A

RECEIPT DATE : 2021-10-18

TEST DATE : 2021-10-18 to 2021-11-30

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Edited by:

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Change History		
Version	Date	Reason for change
1.0	2021-12-07	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United States
Manufacturer:	Unimaxcomm
Manufacturer Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic AirSurf 5G UW	
Hardware Version:	R141-REV12	
Software Version:	ORB141TL5_V1.1.9_SVZ	
IMEI:	N/A	
Serial No.:	(N/A, marked #1 by test site)	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Uplink:2A_4A; 2A_5A; 2A_12A; 2A_13A; 2A_66A; 4A_5A; 4A_12A; 4A_13A; 5A_66A; 13A_66A; 13A_66A; 66B; 66C	
Channel Bandwidth	LTE 2A_4A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_5A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_12A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_13A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_5A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_12A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_13A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 5A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 12A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 13A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 66B	5MHz, 10MHz, 15MHz, 20MHz
	LTE 66C	5MHz, 10MHz, 15MHz, 20MHz



Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	4.54 dBi
	LTE Band 4	4.37 dBi
	LTE Band 5	2.15 dBi
	LTE Band 12	1.33 dBi
	LTE Band 13	-0.03 dBi
	LTE Band 66	4.37 dBi
Accessory Information:	AC Adapter	
	Brand Name:	Orbic
	Model No.:	JHD-AP065U-190342BA-A
	Serial No.:	(N/A, marked #2 by test site)
	Rated Input:	100-240V~ 50/60HZ, 1.5A
	Rated Output:	19V=3420mA
	Manufacturer:	Shenzhen Jihongda Power Co., Ltd
	Battery	
	Brand Name:	Orbic
	Model No.:	BTE-6002
	Serial No.:	(N/A, marked #3 by test site)
	Capacity:	6000mAh
	Rated Voltage:	7.6V
	Charge Limit:	8.7V
	Manufacturer:	GANZHOU NOVEL BATTERY TECHNOLOGY CO.LTD

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Maximum ERP/EIRP and Emission Designator

Channel bandwidth	Maximum ERP/EIRP (W)		
CA_66B	QPSK	16QAM	64QAM
10+10	0.743	0.733	0.427
CA_66C	QPSK	16QAM	64QAM
20+20	0.719	0.698	0.670
CA_2A-4A	QPSK	16QAM	64QAM
20+20	0.718	/	/
CA_2A-5A	QPSK	16QAM	64QAM
20+10	0.731	/	/
CA_2A-12A	QPSK	16QAM	64QAM
20+10	0.706	/	/
CA_2A-13A	QPSK	16QAM	64QAM
20+10	0.726	/	/
CA_2A-66A	QPSK	16QAM	64QAM
20+20	0.726	/	/
CA_4A-5A	QPSK	16QAM	64QAM
20+10	0.670	/	/
CA_4A-12A	QPSK	16QAM	64QAM
20+10	0.689	/	/
CA_4A-13A	QPSK	16QAM	64QAM
20+10	0.630	/	/
CA_5A-66A	QPSK	16QAM	64QAM
10+20	0.373	/	/
CA_12A-66A	QPSK	16QAM	64QAM
10+20	0.305	/	/
CA_13A-66A	QPSK	16QAM	64QAM
10+20	0.224	/	/



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services



Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(2), 24.232(c), 27.50	Transmitter Conducted Output Power and ERP/EIRP	Oct18 to Nov30, 2021	Yi Xiaogang	PASS	No deviation
2.1049	Occupied Bandwidth	Mar 31 to Sep 16, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Conducted Spurious Emissions	Mar 31 to Sep 17, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Band Edge	Mar 31 to Sep18, 2021	Chen Haiju/Li Hanbin	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Radiated Spurious Emissions	Oct18 to Nov30, 2021	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 13dB contains two parts that cable loss 13dB.

Note 3: These items except ERP/EIRP&RSE please refer to the 5G module report SZ21010262W03(LTE-CA) which The FCC ID is 2ABGH-R100ML5 and the 5G module has been certified by Shenzhen Morlab Communications Technology Co., Ltd. on 07/02/2021.



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



2.47 CFR Part 2, 22H, 24E, 27H&F&L Requirements

2.1. Transmitter Conducted Output Power And ERP/EIPR

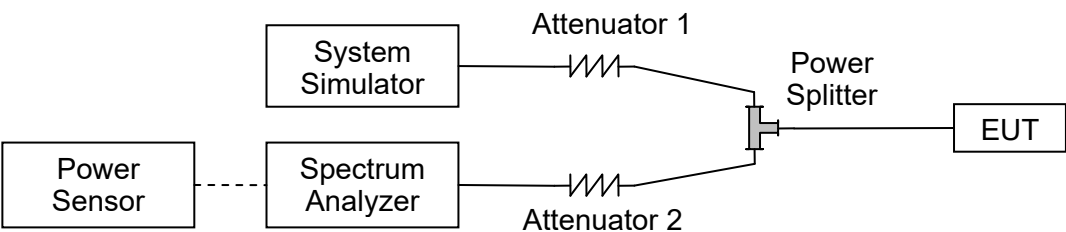
2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 22.913 (a.2) for LTE Band 5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (d)(4) for Band 66, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$$\text{EIRP (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$$

$$\text{ERP (dBm)} = \text{EIPR (dBm)} - 2.15$$

**2.1.4. Result****Effective Radiated Power and Effective Isotropic Radiated Power**

CA_66B									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
132022	132121	QPSK	1	0	0	0	1	28.17	0.656
132373	132472	QPSK	1	0	0	0	1	28.71	0.743
132523	132622	QPSK	1	0	0	0	1	28.69	0.740
132022	132121	16QAM	1	0	0	0	1	27.99	0.630
132373	132472	16QAM	1	0	0	0	1	28.34	0.682
132523	132622	16QAM	1	0	0	0	1	28.65	0.733
132022	132121	64QAM	1	0	0	0	1	25.91	0.390
132373	132472	64QAM	1	0	0	0	1	26.27	0.424
132523	132622	64QAM	1	0	0	0	1	26.3	0.427
132022	132121	QPSK	50	0	0	0	1	27.16	0.520
132373	132472	QPSK	50	0	0	0	1	27.65	0.582
132523	132622	QPSK	50	0	0	0	1	27.54	0.568



CA_66C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
132072	132270	QPSK	1	0	0	0	1	28.15	0.653
132323	132521	QPSK	1	0	0	0	1	28.54	0.714
132374	132572	QPSK	1	0	0	0	1	28.57	0.719
132072	132270	16QAM	1	0	0	0	1	27.99	0.630
132323	132521	16QAM	1	0	0	0	1	28.31	0.678
132374	132572	16QAM	1	0	0	0	1	28.44	0.698
132072	132270	64QAM	1	0	0	0	1	27.75	0.596
132323	132521	64QAM	1	0	0	0	1	28.21	0.662
132374	132572	64QAM	1	0	0	0	1	28.26	0.670
132072	132270	QPSK	50	0	0	0	1	27.25	0.531
132323	132521	QPSK	50	0	0	0	1	27.61	0.577
132374	132572	QPSK	50	0	0	0	1	27.65	0.582

Configure	CA Configuration	PCC				
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)
Inter-band	CA_2A-4A	2	20	19100	1900	QPSK/1#0
	CA_2A-5A	2	20	19100	1900	QPSK/1#0
	CA_2A-12A	2	20	19100	1900	QPSK/1#0
	CA_2A-13A	2	20	19100	1900	QPSK/1#0
	CA_2A-66A	2	20	19100	1900	QPSK/1#0
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0
	CA_4A-12A	4	20	20175	1732.5	QPSK/1#0
	CA_4A-13A	4	20	20175	1732.5	QPSK/1#0
	CA_5A-66A	5	20	20525	836.5	QPSK/1#0
	CA_13A-66A	13	10	23230	782	QPSK/1#0



SCC					
Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Measured EIRP/ERP(W)
4	20	20175	1732.5	28.56	0.718
5	10	20525	836.5	28.64	0.731
12	10	23095	707.5	28.49	0.706
13	10	23230	782	28.61	0.726
66	20	132322	1745	28.61	0.726
5	10	20525	836.5	28.26	0.670
12	10	23095	707.5	28.38	0.689
13	10	23230	782	27.99	0.630
66	20	132322	1745	25.72	0.373
66	20	132322	1745	24.84	0.305
66	20	132322	1745	23.51	0.224

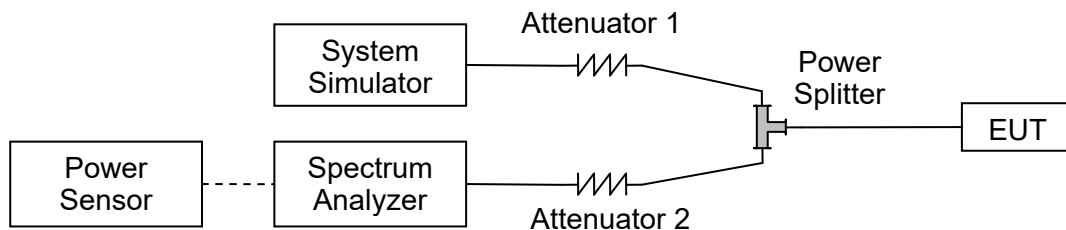
Note: The test results of Output Power please refer to Report No.: SZ21010262W03.

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

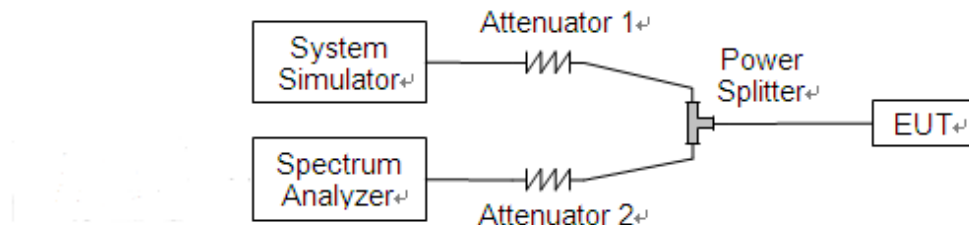
Note: The test results please refer to Report No.: SZ21010262W03.

2.3. Conducted Spurious Emissions

2.3.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.3.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.3.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

Note: The test results please refer to Report No.: SZ21010262W03.

2.4. Band Edge

2.4.1. Requirement

According to FCC section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(c), 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:

On any frequency outside the 746-758 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;

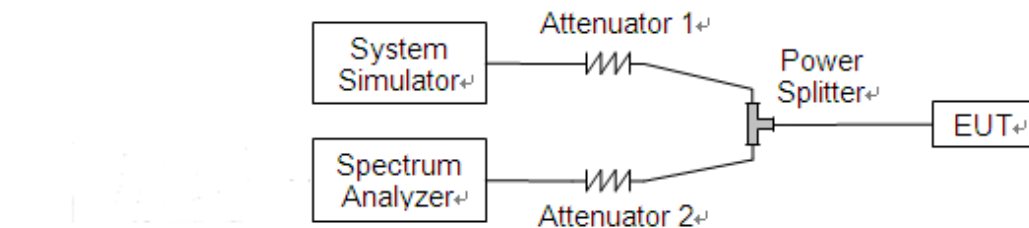
(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) 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;

(4) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(5) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

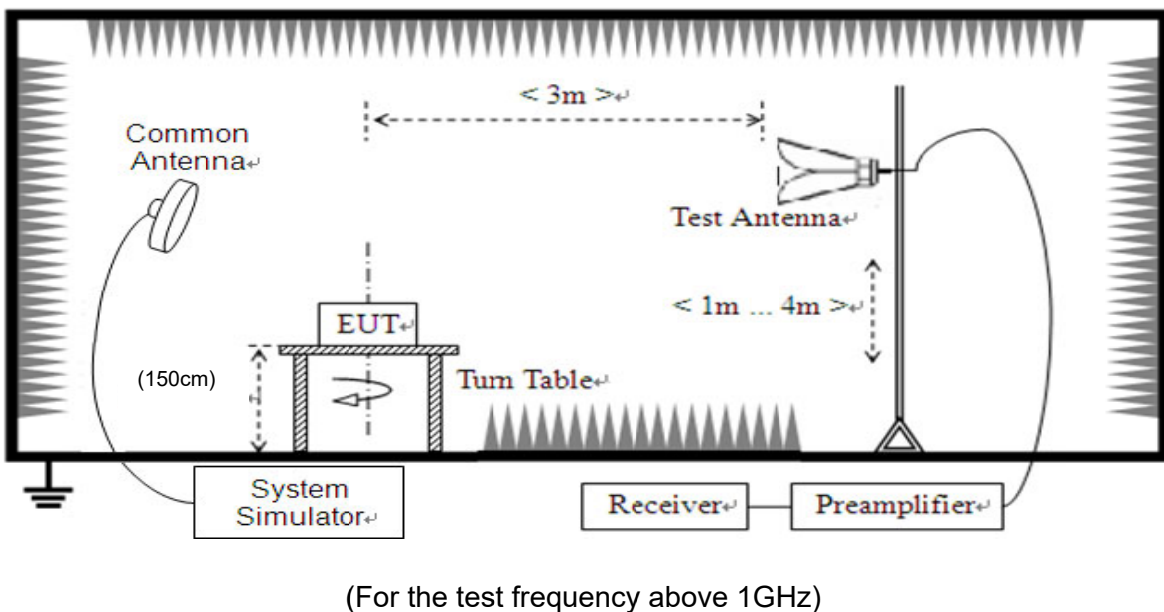
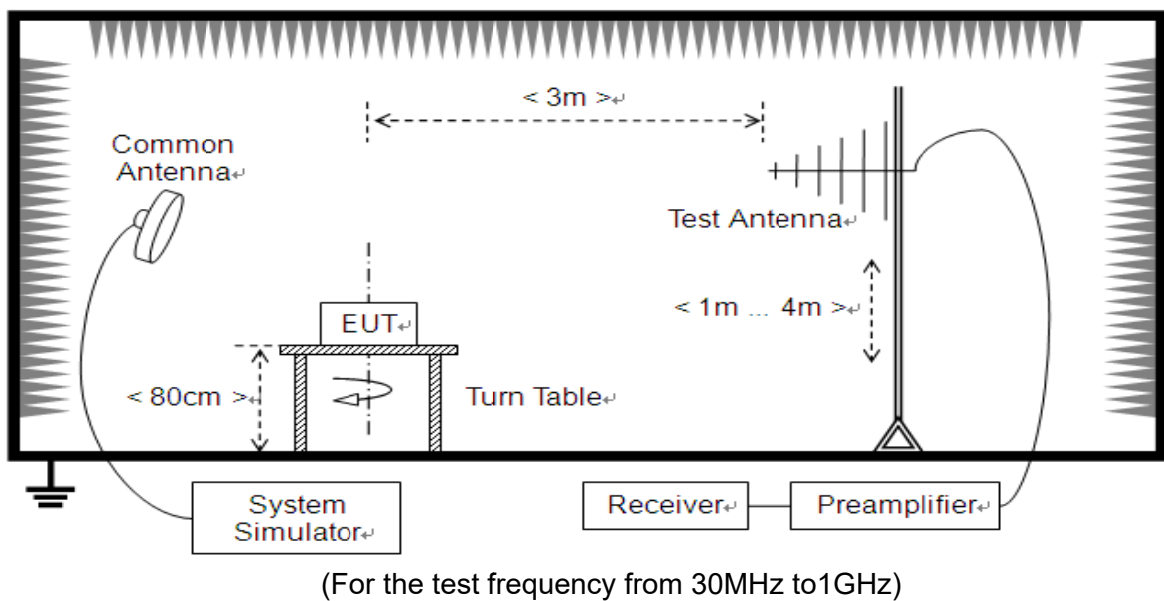
Note: The test results please refer to Report No.: SZ21010262W03.

2.5. Radiated Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB. This calculated to be -13dBm.

2.5.2. Test Description





The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.5.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction



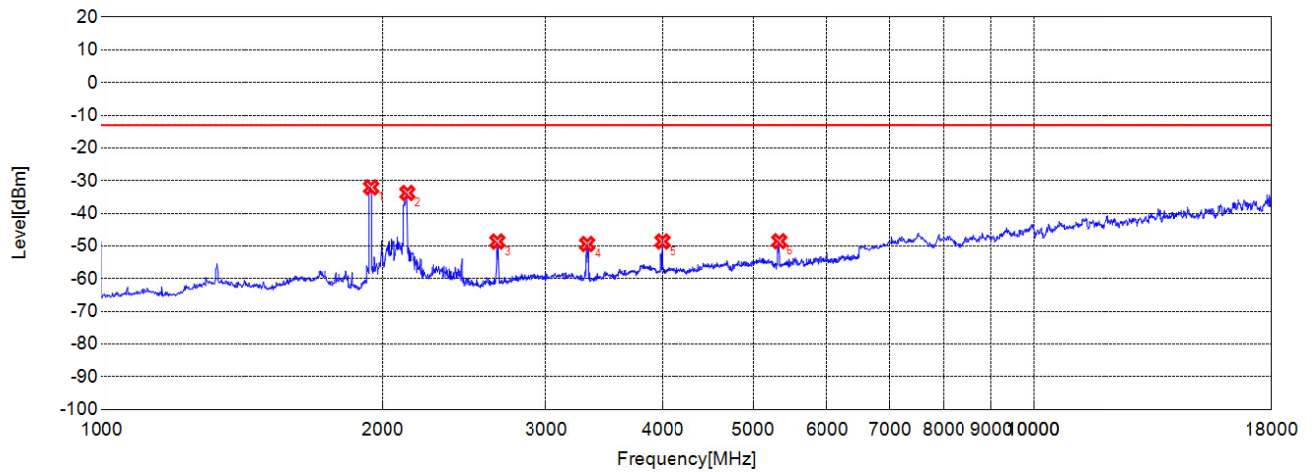
During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and test channel were considered and evaluated respectively by performing full test for each band, only the worst cases were recorded in this test report.

Test Graph

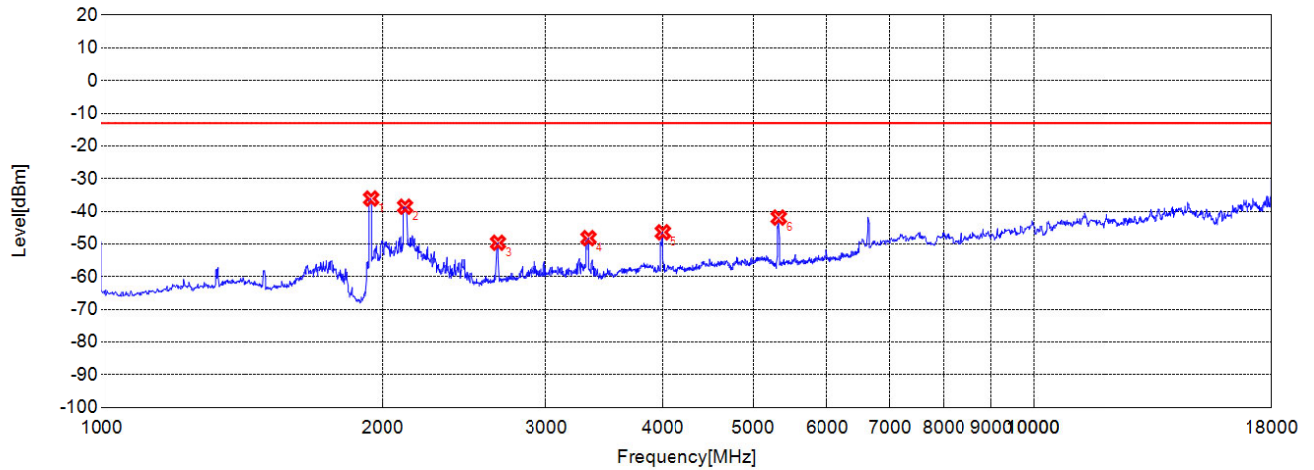


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1942.9430	-32.08	-13.00	19.08	-5.23	-46.47	41.24	NA
2	2129.1290	-33.78	-13.00	20.78	-8.10	-46.98	38.88	NA
3	2657.6580	-48.64	-13.00	35.64	-10.17	-47.31	37.14	Horizontal
4	3322.3220	-49.39	-13.00	36.39	-10.00	-48.05	38.05	Horizontal
5	3994.9950	-48.61	-13.00	35.61	-7.71	-47.33	39.62	Horizontal
6	5329.8300	-48.53	-13.00	35.53	-2.66	-43.18	40.52	Horizontal

CA_2A_4A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

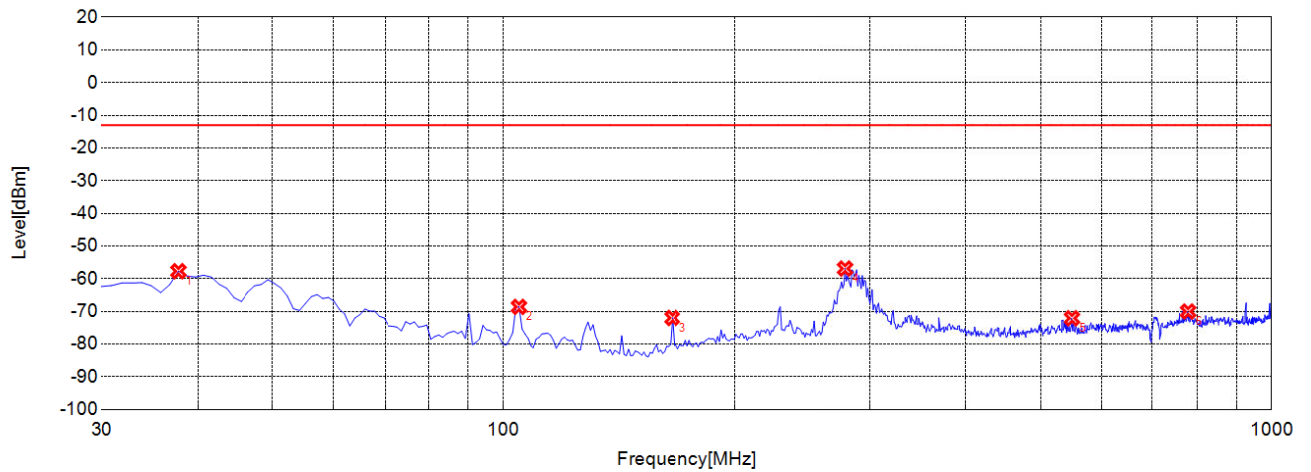


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1942.9430	-36.1	-13.00	23.10	-10.66	-46.47	35.81	NA
2	2117.1170	-38.59	-13.00	25.59	-9.77	-47.13	37.36	NA
3	2661.6620	-49.62	-13.00	36.62	-10.38	-47.32	36.94	Vertical
4	3332.8330	-48.21	-13.00	35.21	-10.54	-48.05	37.51	Vertical
5	3998.4980	-46.42	-13.00	33.42	-8.16	-47.33	39.17	Vertical
6	5322.8230	-41.93	-13.00	28.93	-3.15	-43.23	40.08	Vertical

CA_2A_4A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

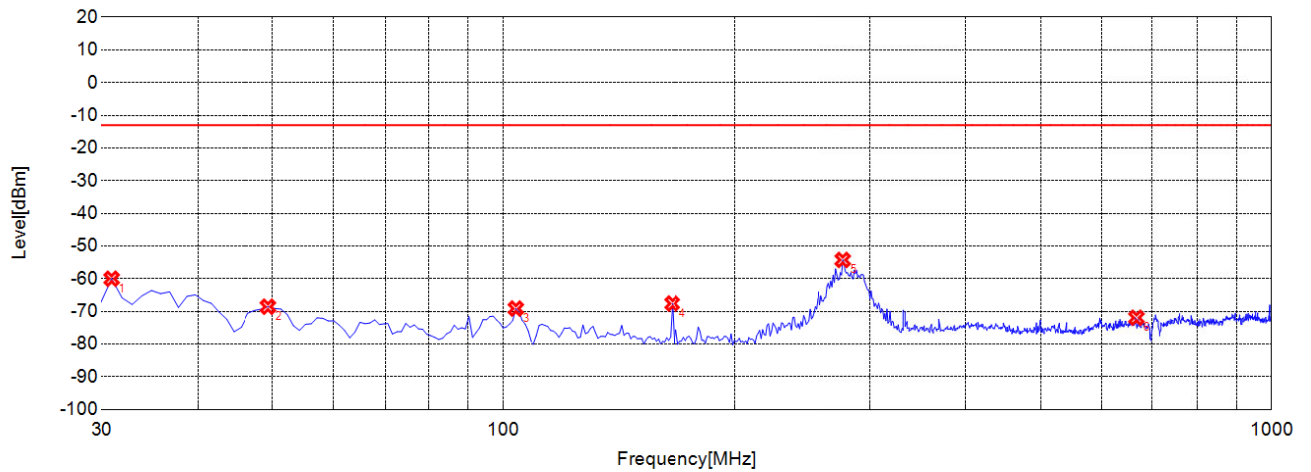


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-57.71	-13.00	44.71	-8.07	-39.56	31.49	Horizontal
2	104.7650	-68.62	-13.00	55.62	-17.53	-38.70	21.17	Horizontal
3	165.9360	-72	-13.00	59.00	-18.94	-38.23	19.29	Horizontal
4	278.5690	-56.9	-13.00	43.90	-12.05	-37.04	24.99	Horizontal
5	549.4690	-72.11	-13.00	59.11	-6.88	-34.81	27.93	Horizontal
6	778.6190	-70.04	-13.00	57.04	-3.11	-34.22	31.11	Horizontal

CA_2A_4A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



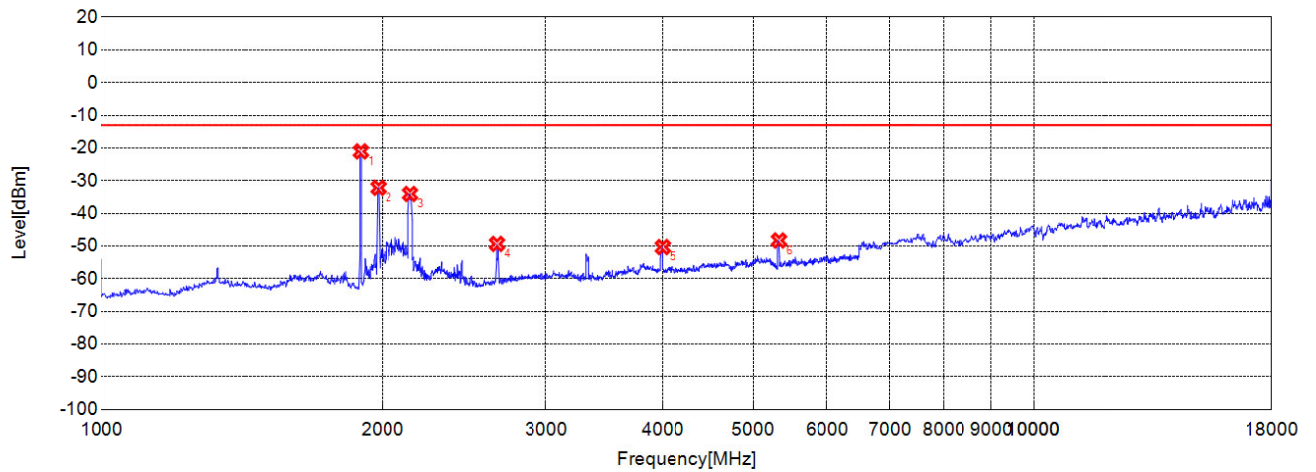
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	30.9710	-60.01	-13.00	47.01	-16.96	-39.61	22.65	Vertical
2	49.4190	-68.57	-13.00	55.57	-15.27	-39.46	24.19	Vertical
3	103.7940	-69.14	-13.00	56.14	-13.84	-38.70	24.86	Vertical
4	165.9360	-67.6	-13.00	54.60	-17.07	-38.23	21.16	Vertical
5	276.6270	-54.26	-13.00	41.26	-12.73	-37.06	24.33	Vertical
6	667.9280	-71.95	-13.00	58.95	-4.36	-34.39	30.03	Vertical

CA_2A_4A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

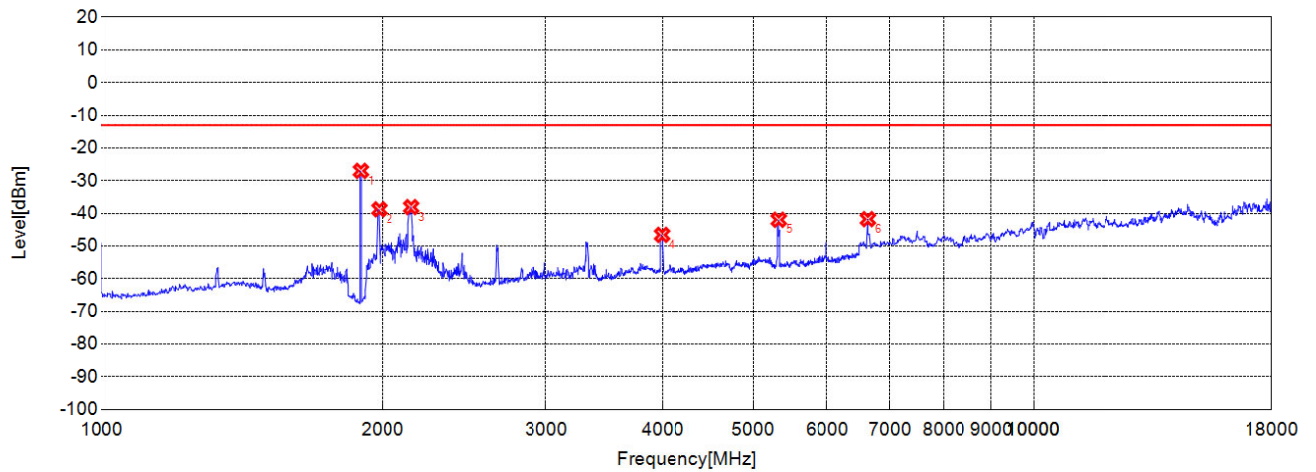


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1894.8950	-21.06	-13.00	8.06	-6.23	-46.73	40.50	NA
2	1978.9790	-32.19	-13.00	19.19	-4.60	-46.34	41.74	NA
3	2143.1430	-34.07	-13.00	21.07	-7.89	-46.81	38.92	NA
4	2655.6560	-49.36	-13.00	36.36	-10.18	-47.31	37.13	Horizontal
5	3998.4980	-50.32	-13.00	37.32	-7.72	-47.33	39.61	Horizontal
6	5326.3260	-48.31	-13.00	35.31	-2.71	-43.21	40.50	Horizontal

CA_2A_4A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

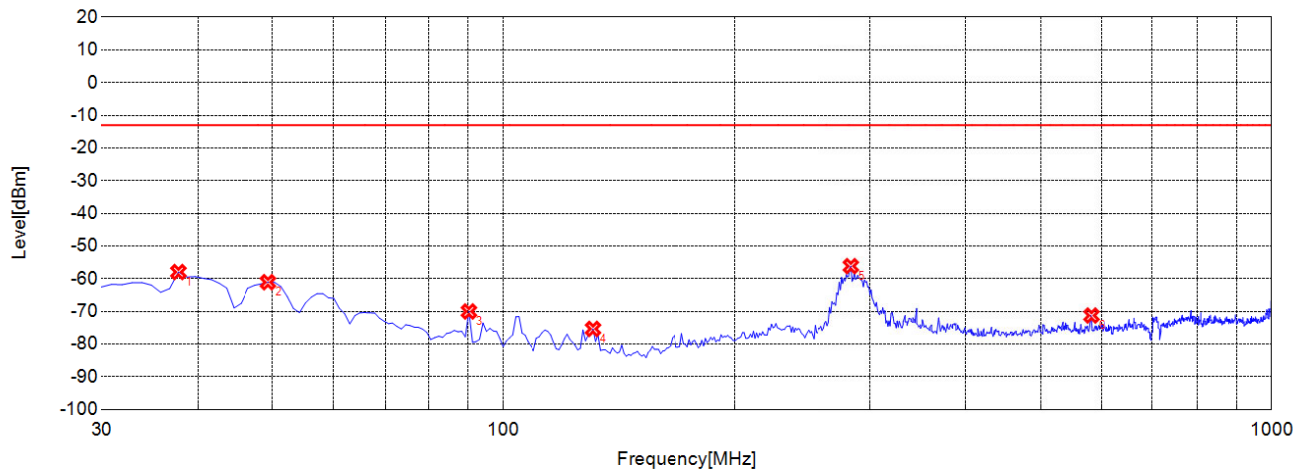


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1894.8950	-27.01	-13.00	14.01	-11.19	-46.73	35.54	NA
2	1982.9830	-38.79	-13.00	25.79	-10.18	-46.32	36.14	NA
3	2149.1490	-38.11	-13.00	25.11	-8.54	-46.73	38.19	NA
4	3991.4910	-46.6	-13.00	33.60	-8.14	-47.33	39.19	Vertical
5	5322.8230	-41.98	-13.00	28.98	-3.15	-43.23	40.08	Vertical
6	6638.1380	-41.79	-13.00	28.79	4.15	-39.19	43.34	Vertical

CA_2A_4A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

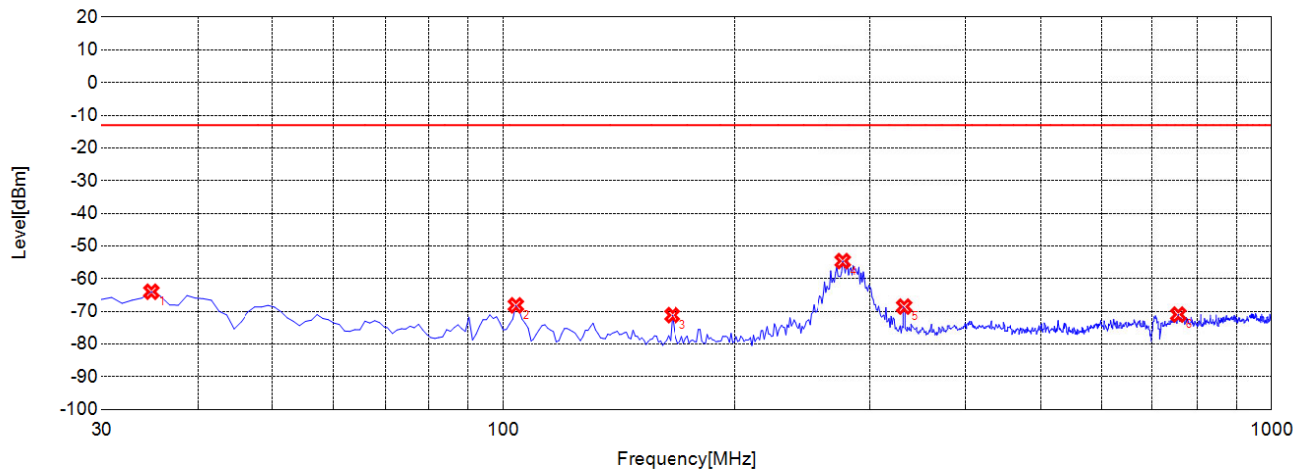


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-57.96	-13.00	44.96	-8.07	-39.56	31.49	Horizontal
2	49.4190	-61.08	-13.00	48.08	-7.01	-39.46	32.45	Horizontal
3	90.2000	-70.03	-13.00	57.03	-18.92	-38.71	19.79	Horizontal
4	130.9810	-75.36	-13.00	62.36	-20.37	-38.51	18.14	Horizontal
5	283.4230	-56.16	-13.00	43.16	-11.94	-37.01	25.07	Horizontal
6	582.4820	-71.27	-13.00	58.27	-6.13	-34.89	28.76	Horizontal

CA_2A_4A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



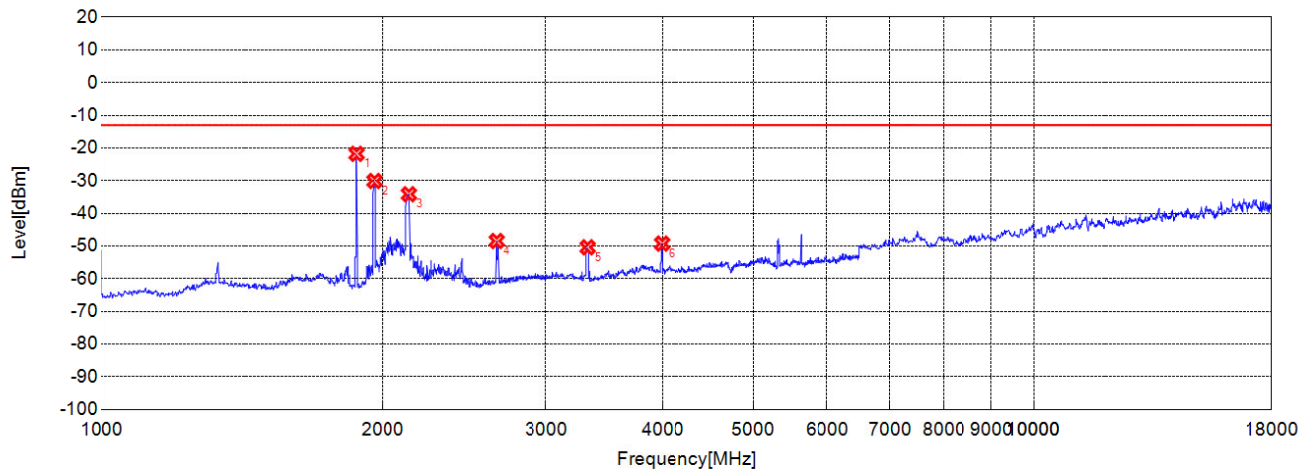
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-63.98	-13.00	50.98	-16.68	-39.58	22.90	Vertical
2	103.7940	-68.15	-13.00	55.15	-13.84	-38.70	24.86	Vertical
3	165.9360	-71.15	-13.00	58.15	-17.07	-38.23	21.16	Vertical
4	276.6270	-54.61	-13.00	41.61	-12.73	-37.06	24.33	Vertical
5	331.9720	-68.54	-13.00	55.54	-10.92	-37.04	26.12	Vertical
6	756.2860	-70.97	-13.00	57.97	-2.42	-34.21	31.79	Vertical

CA_2A_4A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

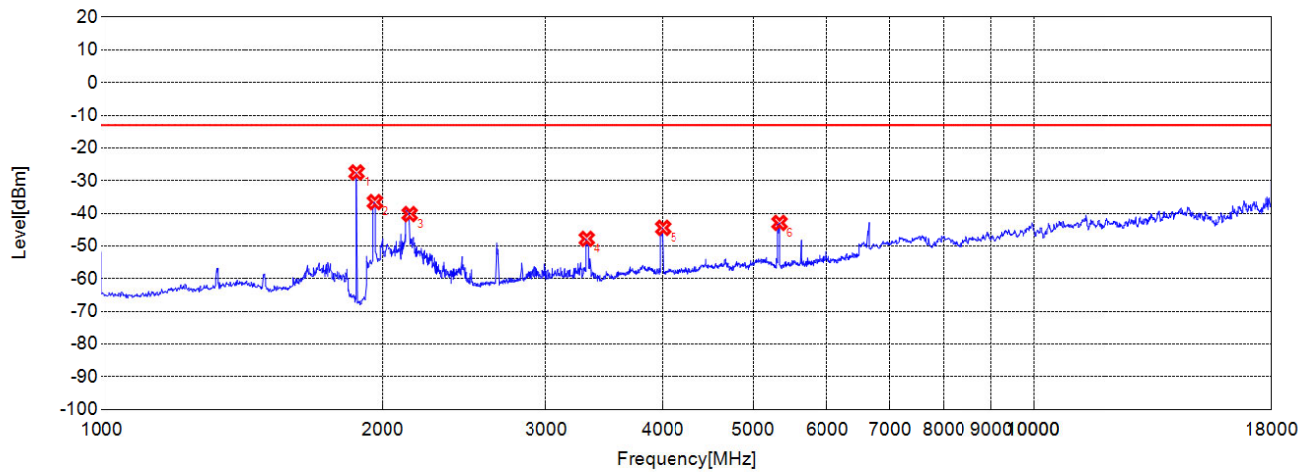


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1874.8750	-21.8	-13.00	8.80	-6.72	-46.70	39.98	NA
2	1958.9590	-30.11	-13.00	17.11	-4.94	-46.40	41.46	NA
3	2137.1370	-34.16	-13.00	21.16	-7.97	-46.88	38.91	NA
4	2653.6540	-48.47	-13.00	35.47	-10.18	-47.30	37.12	Horizontal
5	3325.8260	-50.4	-13.00	37.40	-9.98	-48.05	38.07	Horizontal
6	3991.4910	-49.27	-13.00	36.27	-7.70	-47.33	39.63	Horizontal

CA_2A_4A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

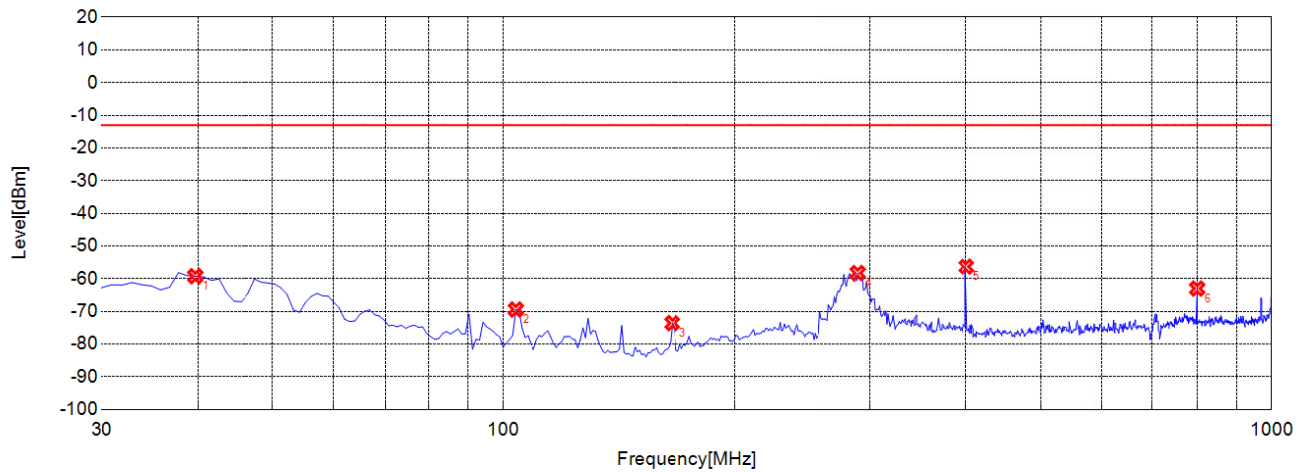


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1874.8750	-27.5	-13.00	14.50	-10.84	-46.70	35.86	NA
2	1960.9610	-36.56	-13.00	23.56	-10.43	-46.39	35.96	NA
3	2141.1410	-40.23	-13.00	27.23	-8.85	-46.83	37.98	NA
4	3318.8190	-47.81	-13.00	34.81	-10.56	-48.05	37.49	Vertical
5	4002.0020	-44.44	-13.00	31.44	-8.12	-47.30	39.18	Vertical
6	5333.3330	-42.92	-13.00	29.92	-3.02	-43.15	40.13	Vertical

CA_2A_4A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

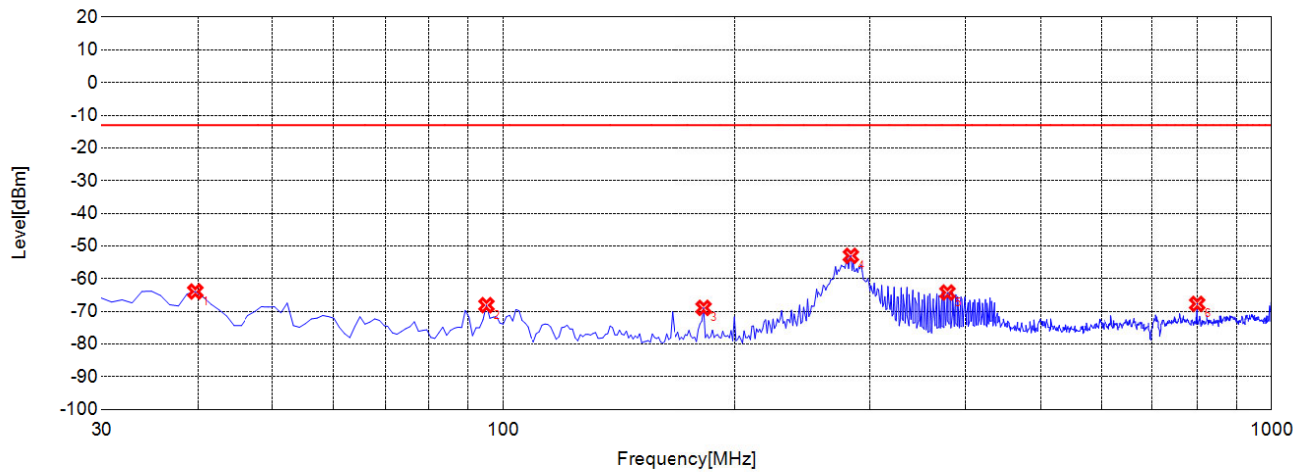


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	39.7100	-59.24	-13.00	46.24	-7.19	-39.54	32.35	Horizontal
2	103.7940	-69.42	-13.00	56.42	-17.50	-38.70	21.20	Horizontal
3	165.9360	-73.6	-13.00	60.60	-18.94	-38.23	19.29	Horizontal
4	289.2490	-58.27	-13.00	45.27	-11.78	-36.97	25.19	Horizontal
5	399.9400	-56.31	-13.00	43.31	-10.14	-36.26	26.12	Horizontal
6	799.9800	-63.01	-13.00	50.01	-3.49	-34.24	30.75	Horizontal

CA_2A_4A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



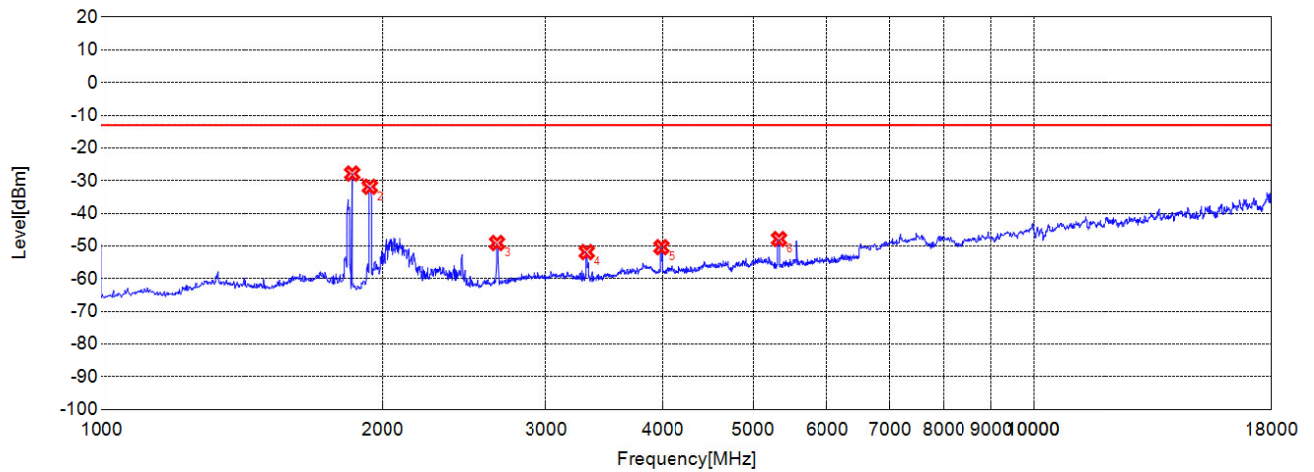
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	39.7100	-63.93	-13.00	50.93	-16.34	-39.54	23.20	Vertical
2	95.0550	-68.1	-13.00	55.10	-14.47	-38.70	24.23	Vertical
3	182.4420	-68.93	-13.00	55.93	-16.34	-38.11	21.77	Vertical
4	283.4230	-53	-13.00	40.00	-12.36	-37.01	24.65	Vertical
5	377.6080	-64.24	-13.00	51.24	-10.47	-36.46	25.99	Vertical
6	799.9800	-67.71	-13.00	54.71	-3.62	-34.24	30.62	Vertical

CA_2A_4A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

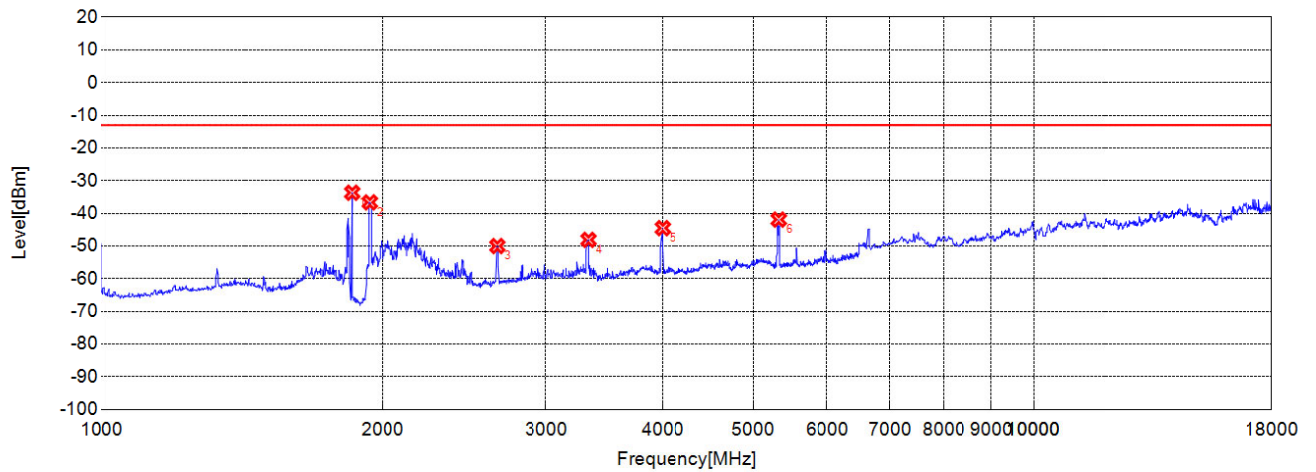


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1854.8550	-27.84	-13.00	14.84	-7.20	-46.67	39.47	NA
2	1936.9370	-31.87	-13.00	18.87	-5.36	-46.51	41.15	NA
3	2655.6560	-49.09	-13.00	36.09	-10.18	-47.31	37.13	Horizontal
4	3318.8190	-51.85	-13.00	38.85	-10.01	-48.05	38.04	Horizontal
5	3984.4840	-50.36	-13.00	37.36	-7.69	-47.33	39.64	Horizontal
6	5326.3260	-47.88	-13.00	34.88	-2.71	-43.21	40.50	Horizontal

CA_2A_5A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

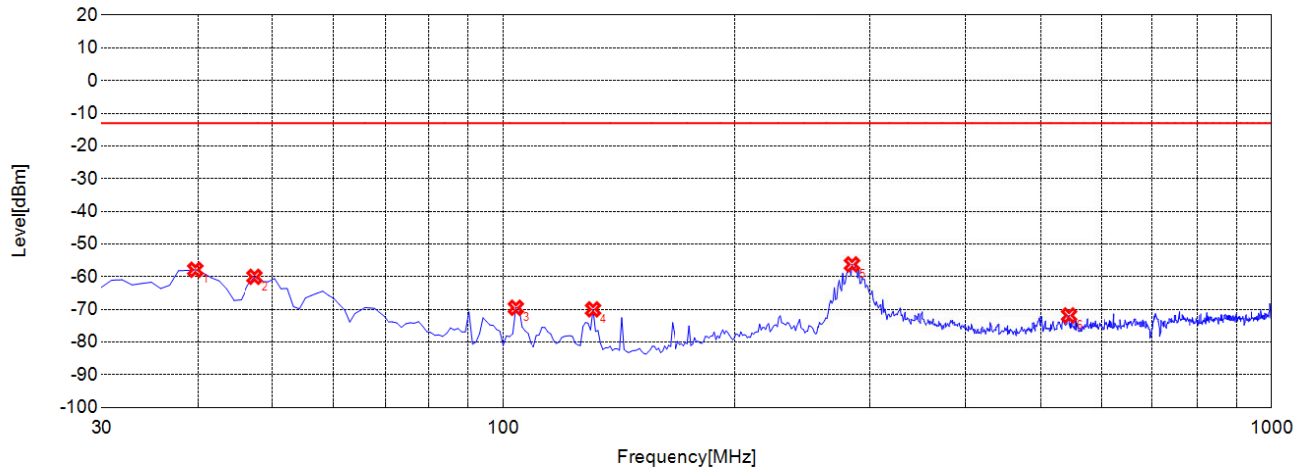


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1854.8550	-33.7	-13.00	20.70	-10.48	-46.67	36.19	NA
2	1936.9370	-36.65	-13.00	23.65	-10.75	-46.51	35.76	NA
3	2657.6580	-50.02	-13.00	37.02	-10.38	-47.31	36.93	Vertical
4	3332.8330	-48.12	-13.00	35.12	-10.54	-48.05	37.51	Vertical
5	3998.4980	-44.53	-13.00	31.53	-8.16	-47.33	39.17	Vertical
6	5322.8230	-41.93	-13.00	28.93	-3.15	-43.23	40.08	Vertical

CA_2A_5A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

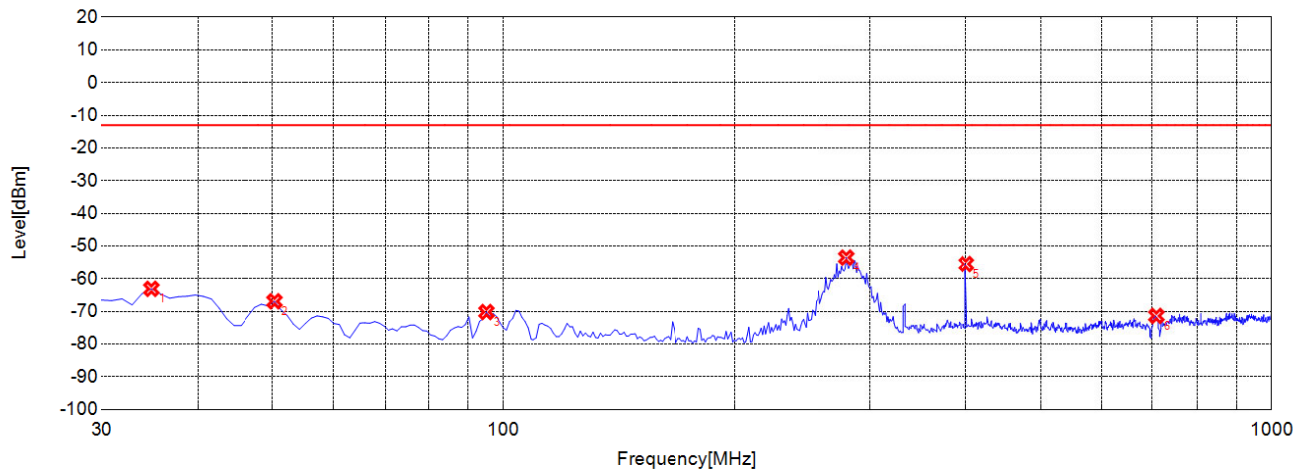


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	39.7100	-57.88	-13.00	44.88	-7.19	-39.54	32.35	Horizontal
2	47.4770	-60.04	-13.00	47.04	-7.02	-39.48	32.46	Horizontal
3	103.7940	-69.51	-13.00	56.51	-17.50	-38.70	21.20	Horizontal
4	130.9810	-69.99	-13.00	56.99	-20.37	-38.51	18.14	Horizontal
5	284.3940	-56.23	-13.00	43.23	-11.92	-37.01	25.09	Horizontal
6	544.6150	-71.84	-13.00	58.84	-6.68	-34.85	28.17	Horizontal

CA_2A_5A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



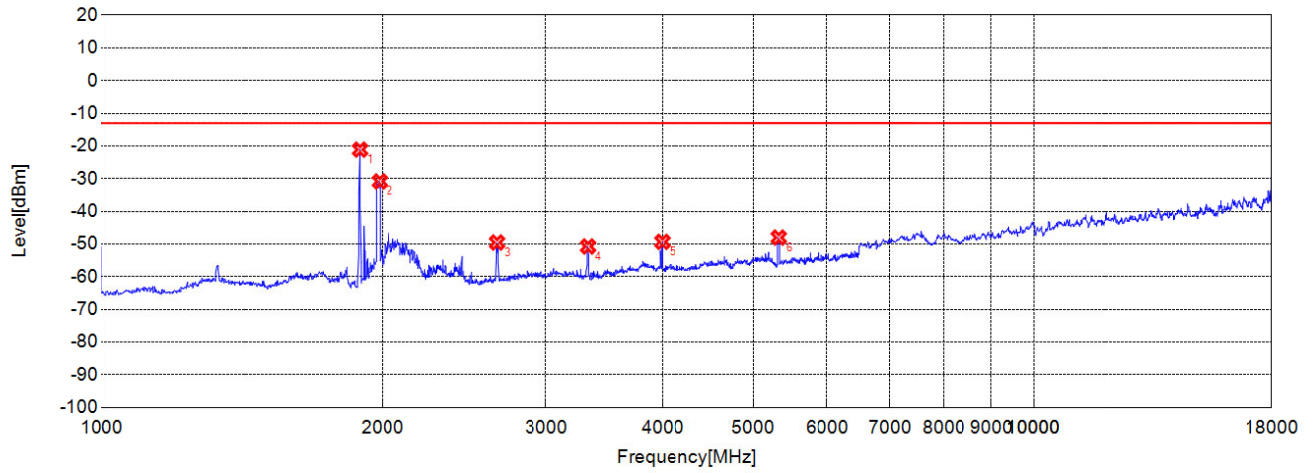
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-63.1	-13.00	50.10	-16.68	-39.58	22.90	Vertical
2	50.3900	-66.91	-13.00	53.91	-15.33	-39.46	24.13	Vertical
3	95.0550	-70.2	-13.00	57.20	-14.47	-38.70	24.23	Vertical
4	279.5400	-53.55	-13.00	40.55	-12.54	-37.04	24.50	Vertical
5	399.9400	-55.52	-13.00	42.52	-9.42	-36.26	26.84	Vertical
6	708.7090	-71.38	-13.00	58.38	-4.18	-34.35	30.17	Vertical

CA_2A_5A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

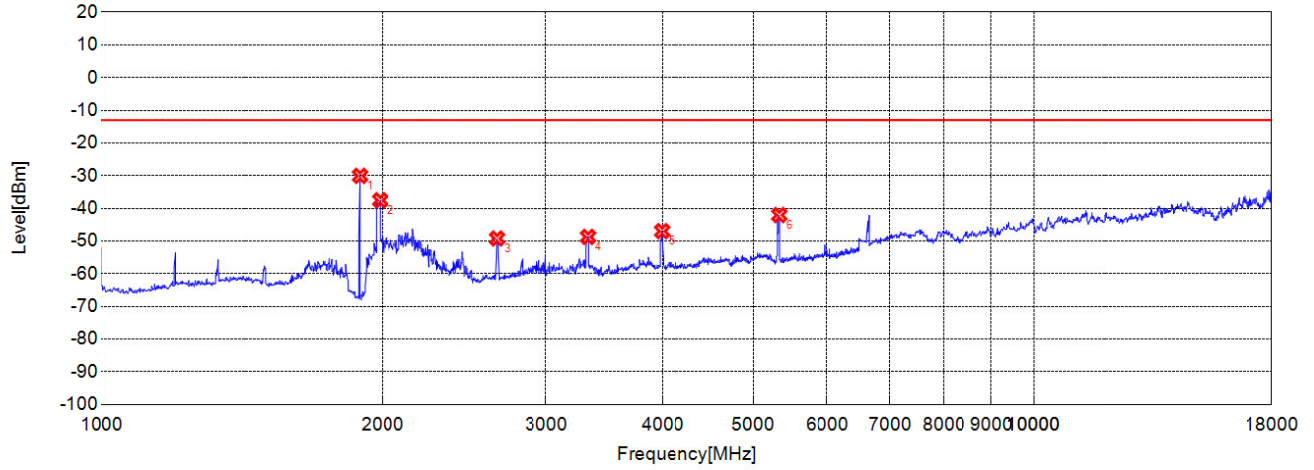


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1890.8910	-21.12	-13.00	8.12	-6.33	-46.73	40.40	NA
2	1984.9850	-30.86	-13.00	17.86	-4.49	-46.32	41.83	NA
3	2655.6560	-49.54	-13.00	36.54	-10.18	-47.31	37.13	Horizontal
4	3329.3290	-50.75	-13.00	37.75	-9.97	-48.05	38.08	Horizontal
5	3994.9950	-49.34	-13.00	36.34	-7.71	-47.33	39.62	Horizontal
6	5322.8230	-48.03	-13.00	35.03	-2.76	-43.23	40.47	Horizontal

CA_2A_5A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

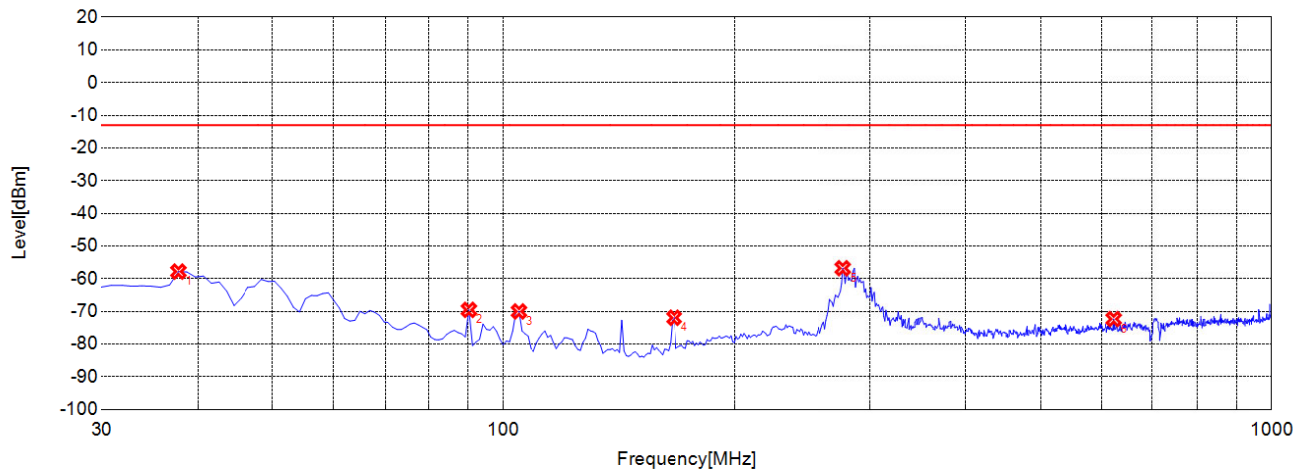


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1890.8910	-30.07	-13.00	17.07	-11.12	-46.73	35.61	NA
2	1986.9870	-37.55	-13.00	24.55	-10.14	-46.31	36.17	NA
3	2655.6560	-49.23	-13.00	36.23	-10.38	-47.31	36.93	Vertical
4	3329.3290	-48.75	-13.00	35.75	-10.54	-48.05	37.51	Vertical
5	3991.4910	-46.99	-13.00	33.99	-8.14	-47.33	39.19	Vertical
6	5329.8300	-42.06	-13.00	29.06	-3.06	-43.18	40.12	Vertical

CA_2A_5A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph



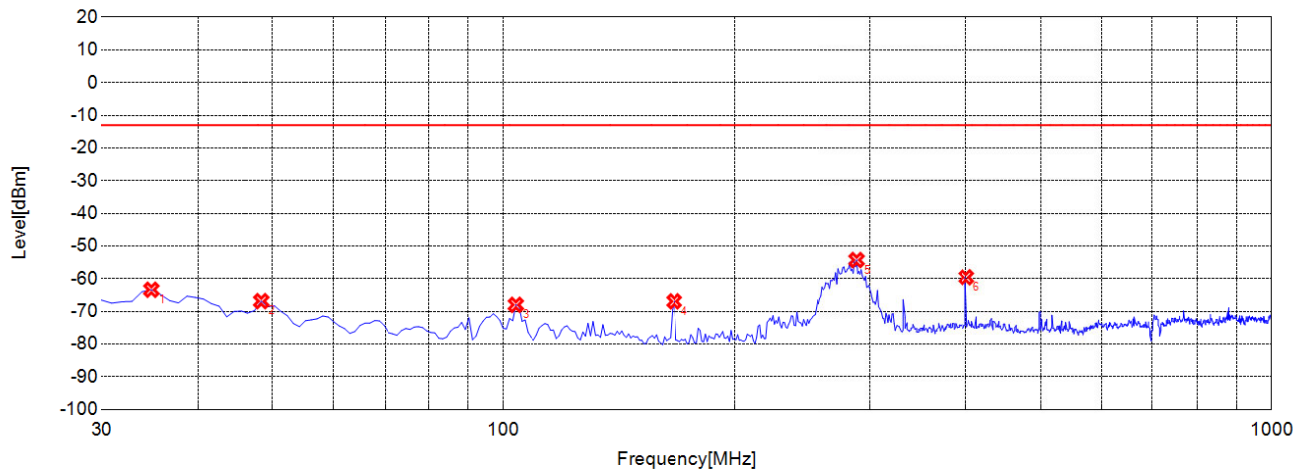
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-57.82	-13.00	44.82	-8.07	-39.56	31.49	Horizontal
2	90.2000	-69.54	-13.00	56.54	-18.92	-38.71	19.79	Horizontal
3	104.7650	-70.02	-13.00	57.02	-17.53	-38.70	21.17	Horizontal
4	166.9070	-71.95	-13.00	58.95	-18.82	-38.20	19.38	Horizontal
5	276.6270	-56.8	-13.00	43.80	-12.09	-37.06	24.97	Horizontal
6	624.2340	-72.34	-13.00	59.34	-5.71	-34.68	28.97	Horizontal

CA_2A_5A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



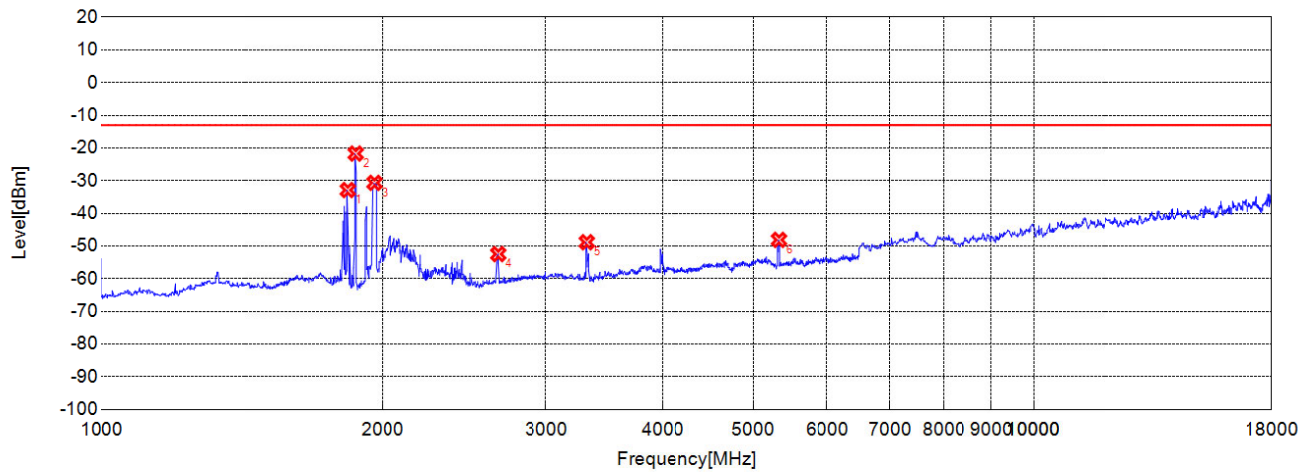
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-63.38	-13.00	50.38	-16.68	-39.58	22.90	Vertical
2	48.4480	-66.87	-13.00	53.87	-15.38	-39.47	24.09	Vertical
3	103.7940	-67.99	-13.00	54.99	-13.84	-38.70	24.86	Vertical
4	166.9070	-66.93	-13.00	53.93	-17.08	-38.20	21.12	Vertical
5	288.2780	-54.29	-13.00	41.29	-12.15	-36.98	24.83	Vertical
6	399.9400	-59.57	-13.00	46.57	-9.42	-36.26	26.84	Vertical

CA_2A_5A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

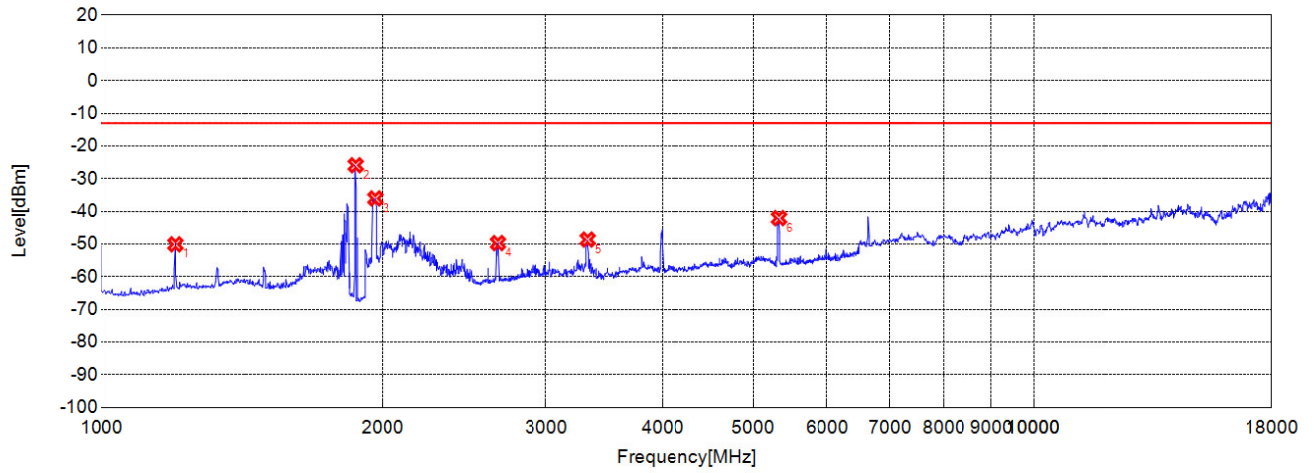


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1834.8350	-32.88	-13.00	19.88	-7.60	-46.56	38.96	Horizontal
2	1870.8710	-21.73	-13.00	8.73	-6.81	-46.69	39.88	NA
3	1958.9590	-30.68	-13.00	17.68	-4.94	-46.40	41.46	NA
4	2663.6640	-52.47	-13.00	39.47	-10.17	-47.33	37.16	Horizontal
5	3318.8190	-48.84	-13.00	35.84	-10.01	-48.05	38.04	Horizontal
6	5326.3260	-48.13	-13.00	35.13	-2.71	-43.21	40.50	Horizontal

CA_2A_5A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

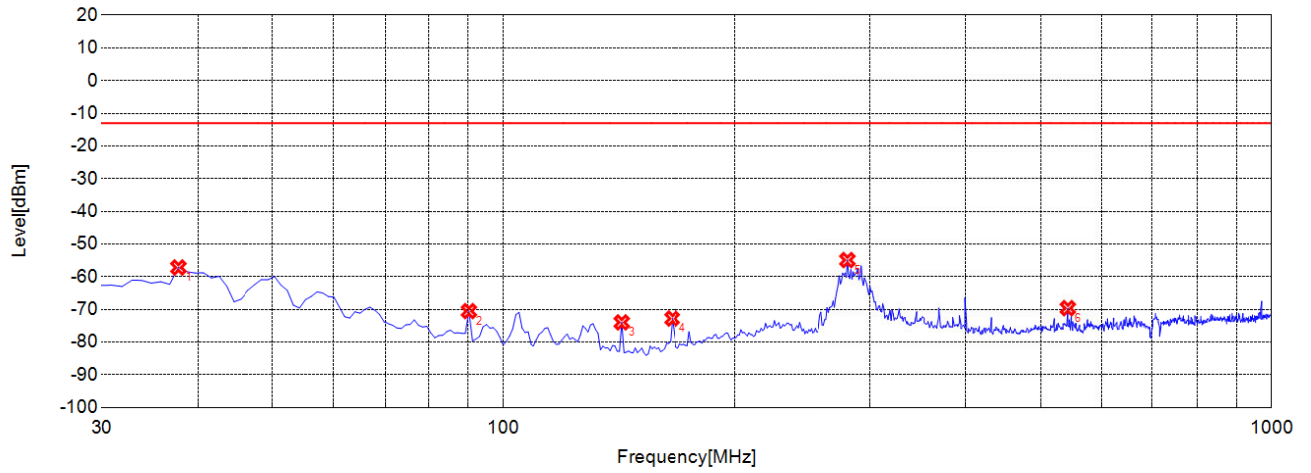


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1200.2000	-50.09	-13.00	37.09	-10.72	-45.85	35.13	Vertical
2	1870.8710	-25.9	-13.00	12.90	-10.76	-46.69	35.93	NA
3	1962.9630	-36.06	-13.00	23.06	-10.41	-46.39	35.98	NA
4	2661.6620	-49.72	-13.00	36.72	-10.38	-47.32	36.94	Vertical
5	3325.8260	-48.65	-13.00	35.65	-10.55	-48.05	37.50	Vertical
6	5326.3260	-42.08	-13.00	29.08	-3.11	-43.21	40.10	Vertical

CA_2A_5A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

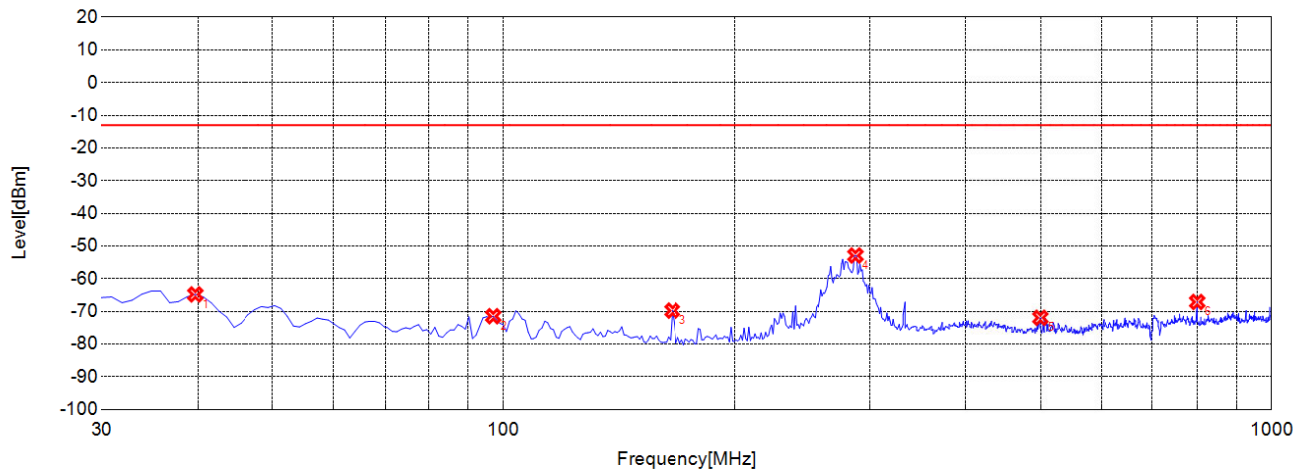


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-57.18	-13.00	44.18	-8.07	-39.56	31.49	Horizontal
2	90.2000	-70.53	-13.00	57.53	-18.92	-38.71	19.79	Horizontal
3	142.6330	-73.98	-13.00	60.98	-20.95	-38.60	17.65	Horizontal
4	165.9360	-72.81	-13.00	59.81	-18.94	-38.23	19.29	Horizontal
5	280.5110	-54.91	-13.00	41.91	-12.02	-37.03	25.01	Horizontal
6	542.6730	-69.63	-13.00	56.63	-6.60	-34.87	28.27	Horizontal

CA_2A_5A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



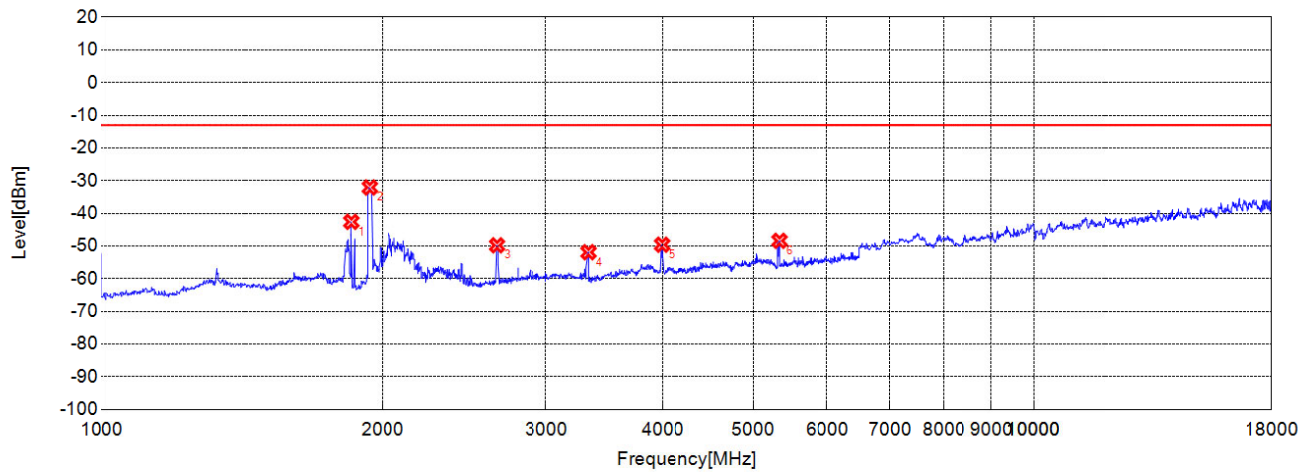
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	39.7100	-64.81	-13.00	51.81	-16.34	-39.54	23.20	Vertical
2	96.9970	-71.48	-13.00	58.48	-13.67	-38.70	25.03	Vertical
3	165.9360	-69.77	-13.00	56.77	-17.07	-38.23	21.16	Vertical
4	287.3070	-52.9	-13.00	39.90	-12.20	-36.99	24.79	Vertical
5	499.9500	-71.96	-13.00	58.96	-8.28	-35.28	27.00	Vertical
6	799.9800	-67.12	-13.00	54.12	-3.62	-34.24	30.62	Vertical

CA_2A_5A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

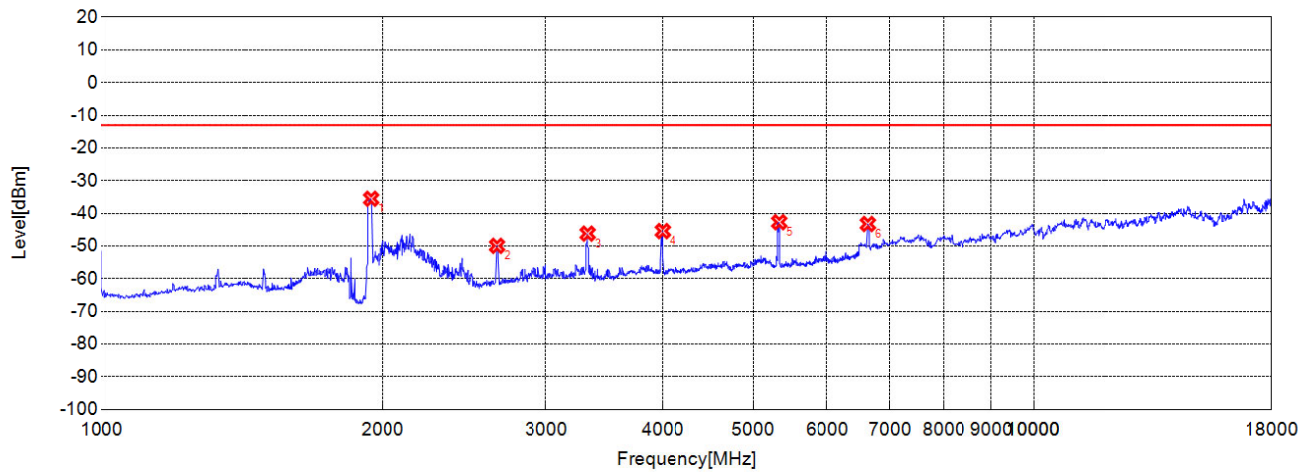


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1850.8510	-42.61	-13.00	29.61	-7.29	-46.66	39.37	NA
2	1936.9370	-32.09	-13.00	19.09	-5.36	-46.51	41.15	NA
3	2655.6560	-49.79	-13.00	36.79	-10.18	-47.31	37.13	Horizontal
4	3332.8330	-51.9	-13.00	38.90	-9.96	-48.05	38.09	Horizontal
5	3991.4910	-49.6	-13.00	36.60	-7.70	-47.33	39.63	Horizontal
6	5333.3330	-48.41	-13.00	35.41	-2.61	-43.15	40.54	Horizontal

CA_2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

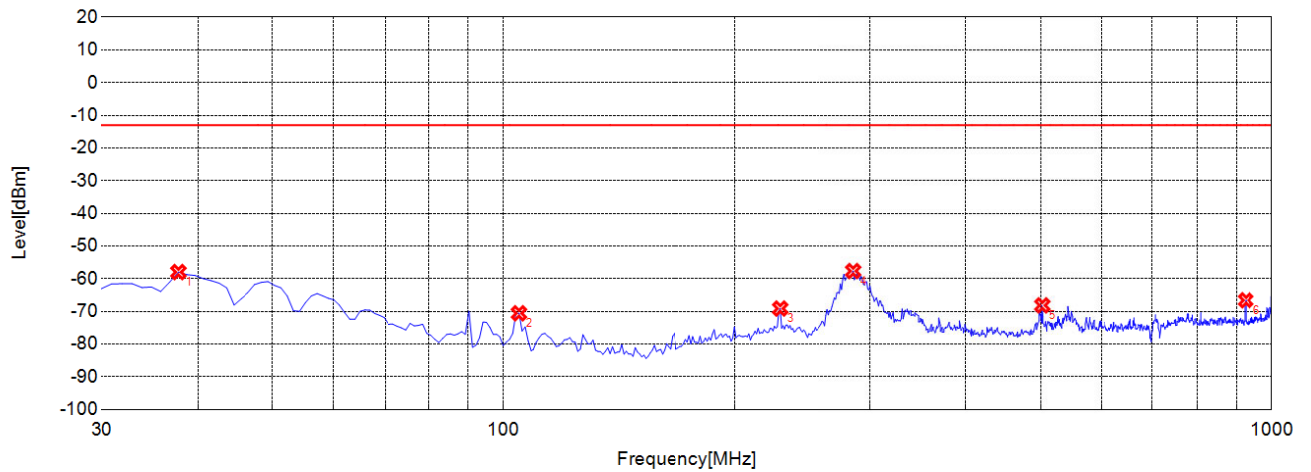


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1942.9430	-35.55	-13.00	22.55	-10.66	-46.47	35.81	NA
2	2655.6560	-49.95	-13.00	36.95	-10.38	-47.31	36.93	Vertical
3	3325.8260	-46.21	-13.00	33.21	-10.55	-48.05	37.50	Vertical
4	3998.4980	-45.43	-13.00	32.43	-8.16	-47.33	39.17	Vertical
5	5329.8300	-42.71	-13.00	29.71	-3.06	-43.18	40.12	Vertical
6	6638.1380	-43.26	-13.00	30.26	4.15	-39.19	43.34	Vertical

CA_2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

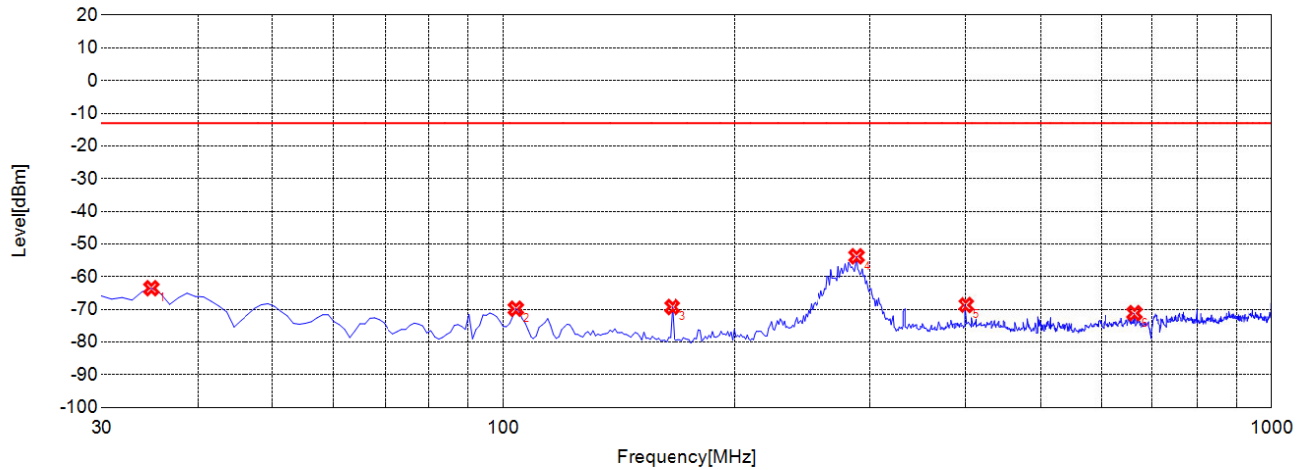


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-57.97	-13.00	44.97	-8.07	-39.56	31.49	Horizontal
2	104.7650	-70.58	-13.00	57.58	-17.53	-38.70	21.17	Horizontal
3	229.0490	-69.13	-13.00	56.13	-10.79	-37.53	26.74	Horizontal
4	285.3650	-57.66	-13.00	44.66	-11.89	-37.00	25.11	Horizontal
5	502.8630	-68.16	-13.00	55.16	-7.53	-35.25	27.72	Horizontal
6	925.2350	-66.6	-13.00	53.60	-2.20	-34.03	31.83	Horizontal

CA_2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



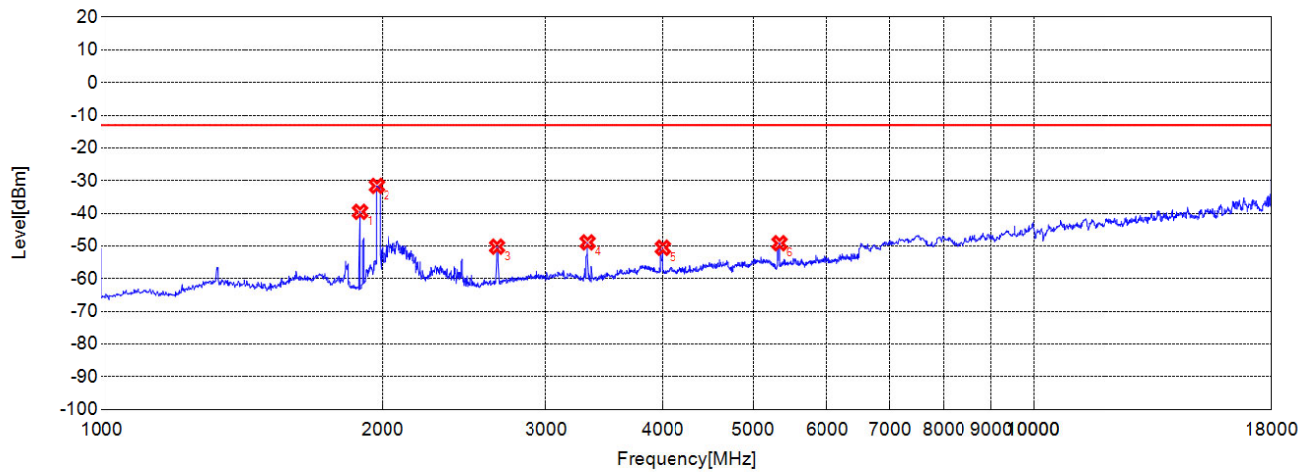
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-63.52	-13.00	50.52	-16.68	-39.58	22.90	Vertical
2	103.7940	-69.8	-13.00	56.80	-13.84	-38.70	24.86	Vertical
3	165.9360	-69.27	-13.00	56.27	-17.07	-38.23	21.16	Vertical
4	288.2780	-53.76	-13.00	40.76	-12.15	-36.98	24.83	Vertical
5	399.9400	-68.67	-13.00	55.67	-9.42	-36.26	26.84	Vertical
6	664.0440	-71.16	-13.00	58.16	-4.35	-34.39	30.04	Vertical

CA_2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

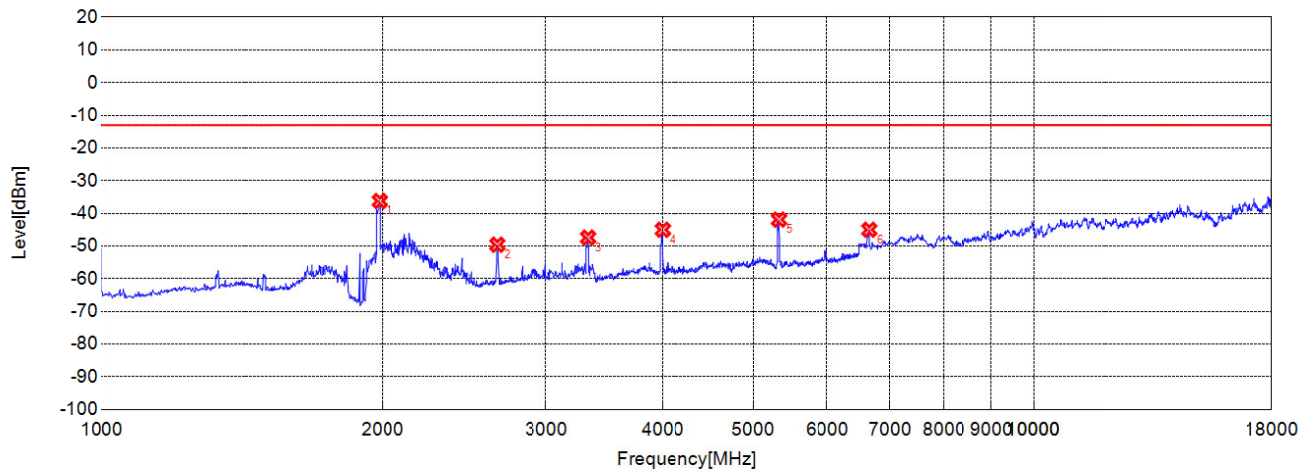


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1890.8910	-39.54	-13.00	26.54	-6.33	-46.73	40.40	NA
2	1970.9710	-31.61	-13.00	18.61	-4.73	-46.36	41.63	NA
3	2655.6560	-50.2	-13.00	37.20	-10.18	-47.31	37.13	Horizontal
4	3325.8260	-48.89	-13.00	35.89	-9.98	-48.05	38.07	Horizontal
5	3998.4980	-50.53	-13.00	37.53	-7.72	-47.33	39.61	Horizontal
6	5333.3330	-49.14	-13.00	36.14	-2.61	-43.15	40.54	Horizontal

CA_2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

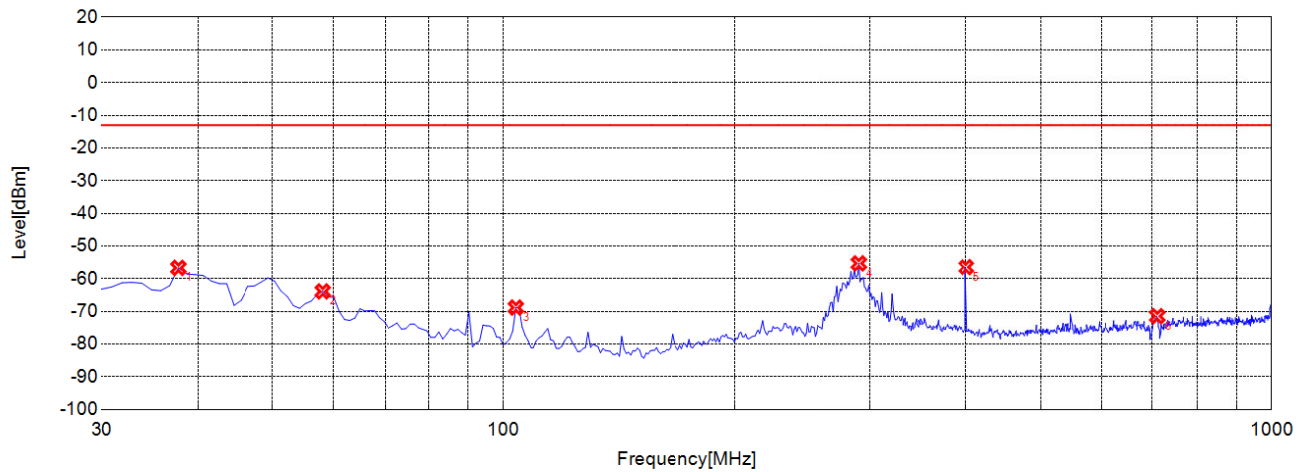


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1984.9850	-36.24	-13.00	23.24	-10.16	-46.32	36.16	NA
2	2657.6580	-49.59	-13.00	36.59	-10.38	-47.31	36.93	Vertical
3	3329.3290	-47.43	-13.00	34.43	-10.54	-48.05	37.51	Vertical
4	3998.4980	-45.03	-13.00	32.03	-8.16	-47.33	39.17	Vertical
5	5326.3260	-41.93	-13.00	28.93	-3.11	-43.21	40.10	Vertical
6	6661.1610	-45.03	-13.00	32.03	3.96	-39.21	43.17	Vertical

CA_2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

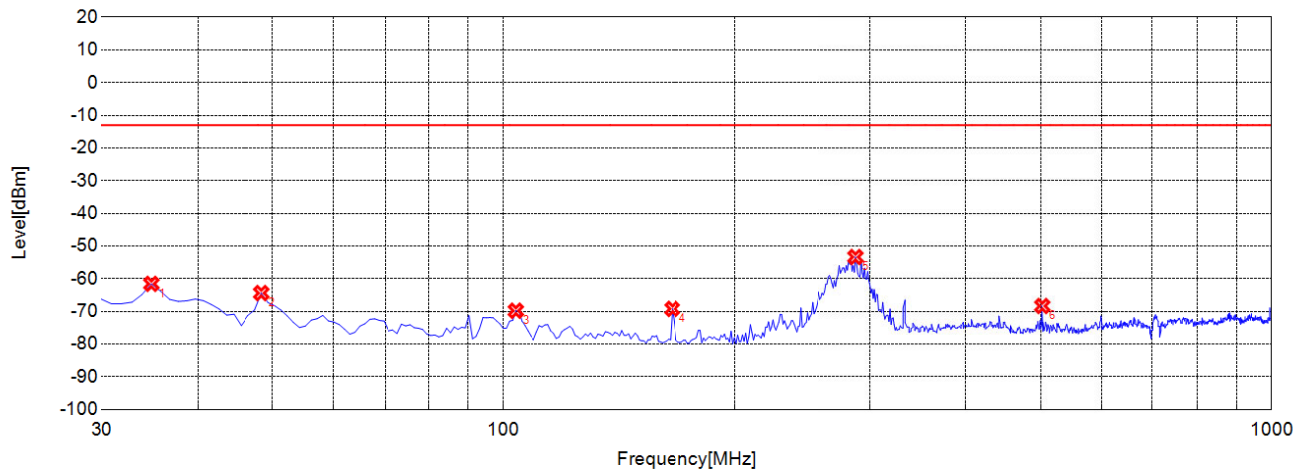


Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.68	-13.00	43.68	-8.07	-39.56	31.49	Horizontal
2	58.1580	-63.88	-13.00	50.88	-10.21	-39.48	29.27	Horizontal
3	103.7940	-68.83	-13.00	55.83	-17.50	-38.70	21.20	Horizontal
4	290.2200	-55.32	-13.00	42.32	-11.77	-36.97	25.20	Horizontal
5	399.9400	-56.46	-13.00	43.46	-10.14	-36.26	26.12	Horizontal
6	710.6510	-71.47	-13.00	58.47	-4.16	-34.34	30.18	Horizontal

CA_2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



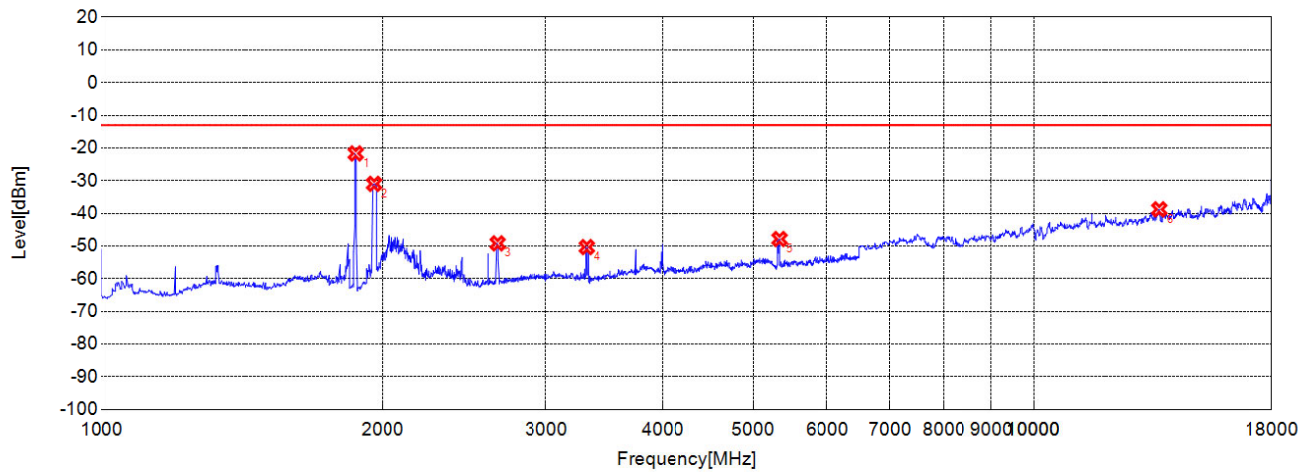
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-61.58	-13.00	48.58	-16.68	-39.58	22.90	Vertical
2	48.4480	-64.4	-13.00	51.40	-15.38	-39.47	24.09	Vertical
3	103.7940	-69.79	-13.00	56.79	-13.84	-38.70	24.86	Vertical
4	165.9360	-69.23	-13.00	56.23	-17.07	-38.23	21.16	Vertical
5	287.3070	-53.37	-13.00	40.37	-12.20	-36.99	24.79	Vertical
6	502.8630	-68.36	-13.00	55.36	-8.06	-35.25	27.19	Vertical

CA_2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

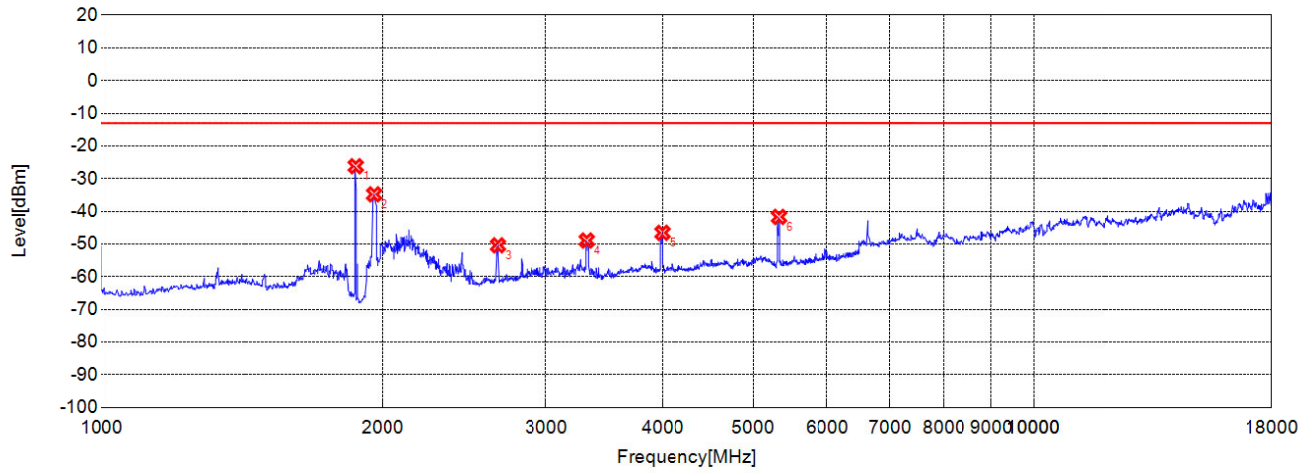


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1870.8710	-21.69	-13.00	8.69	-6.81	-46.69	39.88	NA
2	1956.9570	-30.99	-13.00	17.99	-4.98	-46.41	41.43	NA
3	2659.6600	-49.19	-13.00	36.19	-10.18	-47.32	37.14	Horizontal
4	3318.8190	-50.33	-13.00	37.33	-10.01	-48.05	38.04	Horizontal
5	5333.3330	-47.87	-13.00	34.87	-2.61	-43.15	40.54	Horizontal
6	13648.6490	-38.78	-13.00	25.78	22.45	-27.59	50.04	Horizontal

CA_2A_12A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

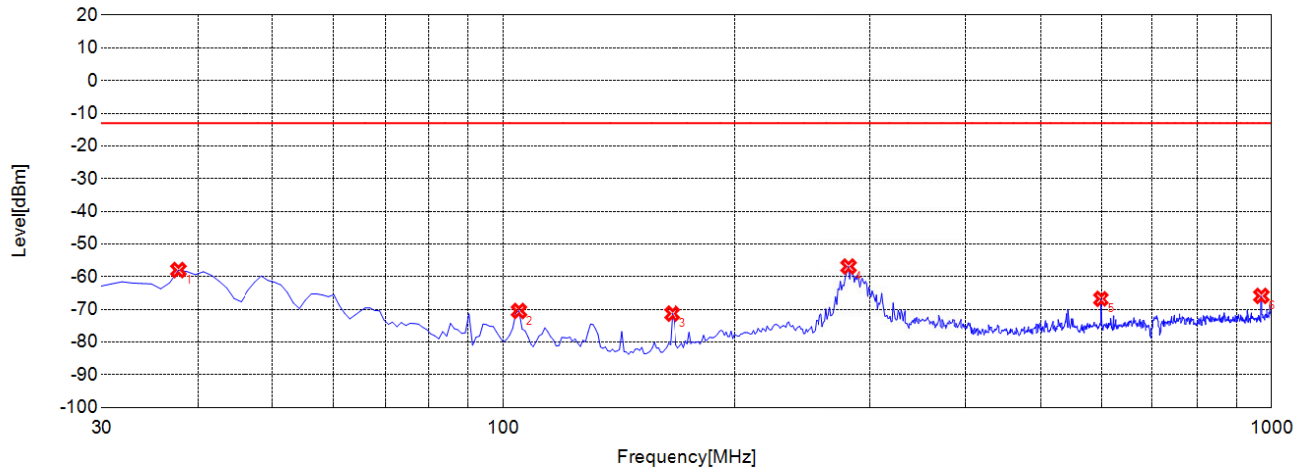


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1870.8710	-26.21	-13.00	13.21	-10.76	-46.69	35.93	NA
2	1956.9570	-34.8	-13.00	21.80	-10.48	-46.41	35.93	NA
3	2661.6620	-50.41	-13.00	37.41	-10.38	-47.32	36.94	Vertical
4	3318.8190	-48.93	-13.00	35.93	-10.56	-48.05	37.49	Vertical
5	3994.9950	-46.58	-13.00	33.58	-8.15	-47.33	39.18	Vertical
6	5326.3260	-41.72	-13.00	28.72	-3.11	-43.21	40.10	Vertical

CA_2A_12A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

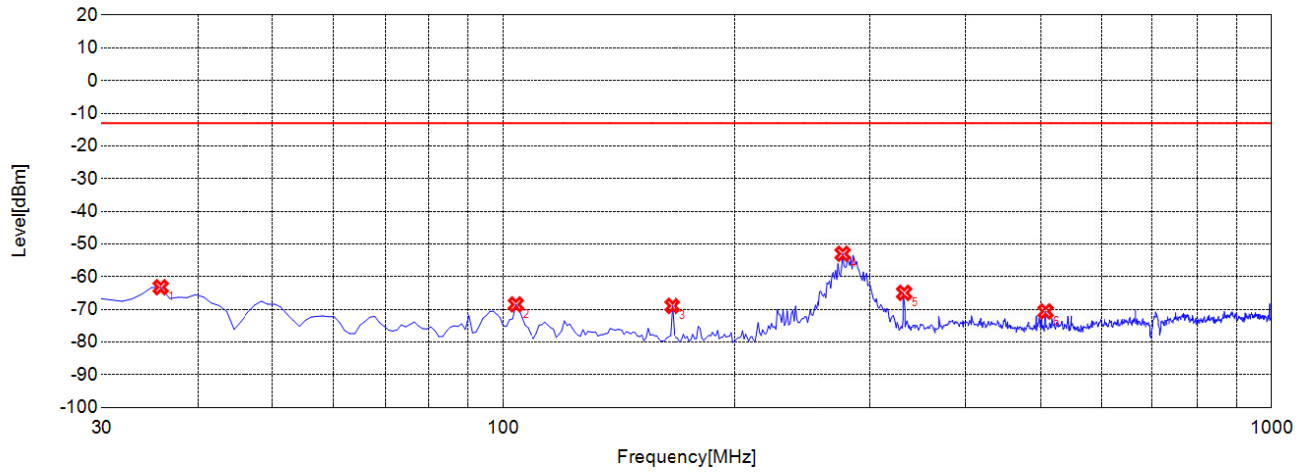


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-57.97	-13.00	44.97	-8.07	-39.56	31.49	Horizontal
2	104.7650	-70.48	-13.00	57.48	-17.53	-38.70	21.17	Horizontal
3	165.9360	-71.3	-13.00	58.30	-18.94	-38.23	19.29	Horizontal
4	281.4810	-56.89	-13.00	43.89	-12.00	-37.03	25.03	Horizontal
5	599.9600	-66.78	-13.00	53.78	-6.13	-34.94	28.81	Horizontal
6	970.8710	-65.88	-13.00	52.88	-1.71	-34.06	32.35	Horizontal

CA_2A_12A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



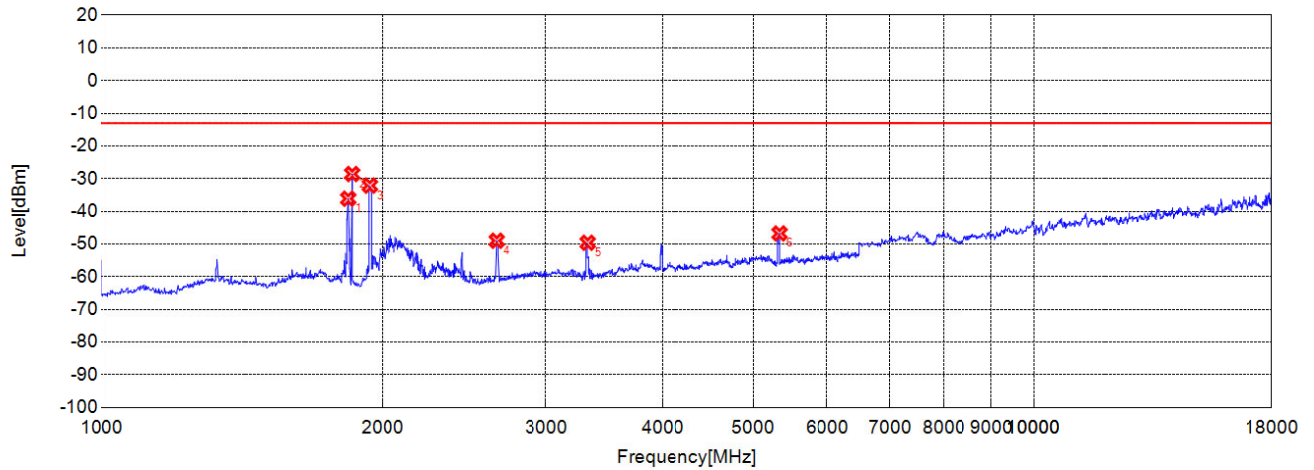
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	35.8260	-63.22	-13.00	50.22	-16.61	-39.57	22.96	Vertical
2	103.7940	-68.47	-13.00	55.47	-13.84	-38.70	24.86	Vertical
3	165.9360	-68.94	-13.00	55.94	-17.07	-38.23	21.16	Vertical
4	276.6270	-52.99	-13.00	39.99	-12.73	-37.06	24.33	Vertical
5	331.9720	-64.94	-13.00	51.94	-10.92	-37.04	26.12	Vertical
6	507.7180	-70.64	-13.00	57.64	-7.69	-35.21	27.52	Vertical

CA_2A_12A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

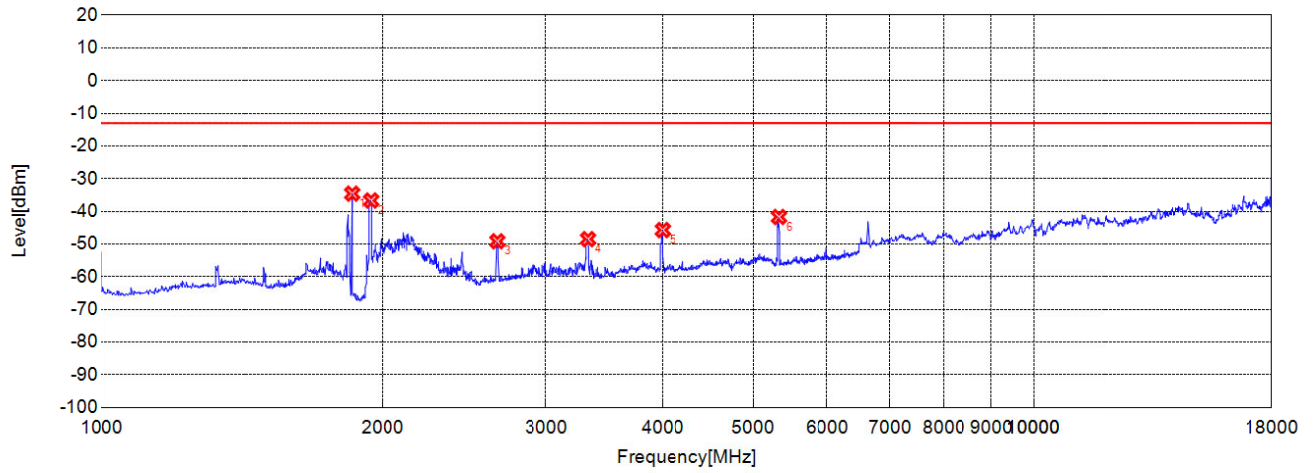


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1836.8370	-36.13	-13.00	23.13	-7.56	-46.57	39.01	Horizontal
2	1854.8550	-28.58	-13.00	15.58	-7.20	-46.67	39.47	NA
3	1936.9370	-32.13	-13.00	19.13	-5.36	-46.51	41.15	NA
4	2653.6540	-48.99	-13.00	35.99	-10.18	-47.30	37.12	Horizontal
5	3325.8260	-49.62	-13.00	36.62	-9.98	-48.05	38.07	Horizontal
6	5333.3330	-46.77	-13.00	33.77	-2.61	-43.15	40.54	Horizontal

CA_2A_13A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

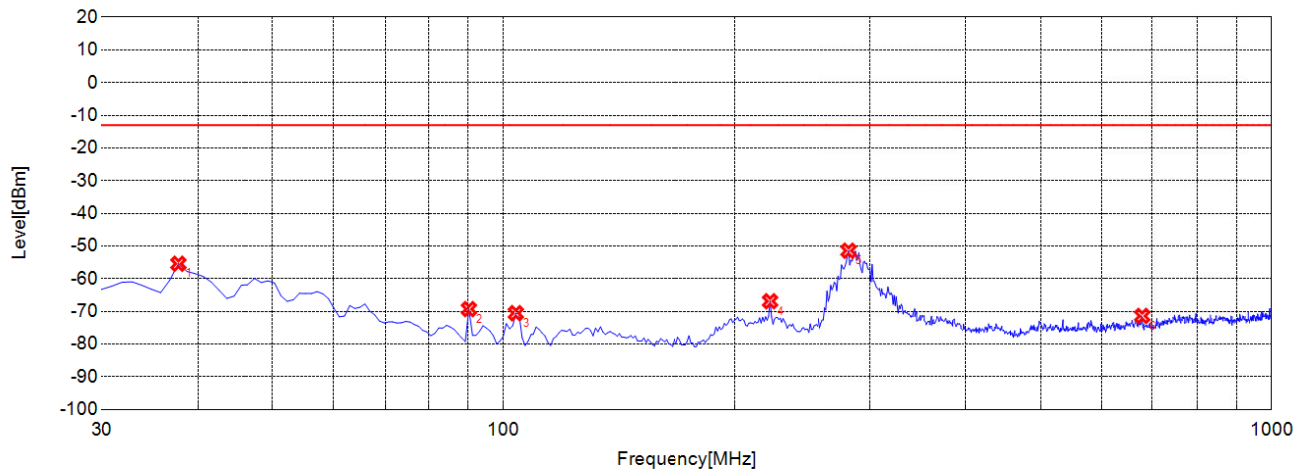


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1854.8550	-34.59	-13.00	21.59	-10.48	-46.67	36.19	NA
2	1942.9430	-36.7	-13.00	23.70	-10.66	-46.47	35.81	NA
3	2657.6580	-49.17	-13.00	36.17	-10.38	-47.31	36.93	Vertical
4	3329.3290	-48.5	-13.00	35.50	-10.54	-48.05	37.51	Vertical
5	3998.4980	-45.73	-13.00	32.73	-8.16	-47.33	39.17	Vertical
6	5326.3260	-41.73	-13.00	28.73	-3.11	-43.21	40.10	Vertical

CA_2A_13A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph



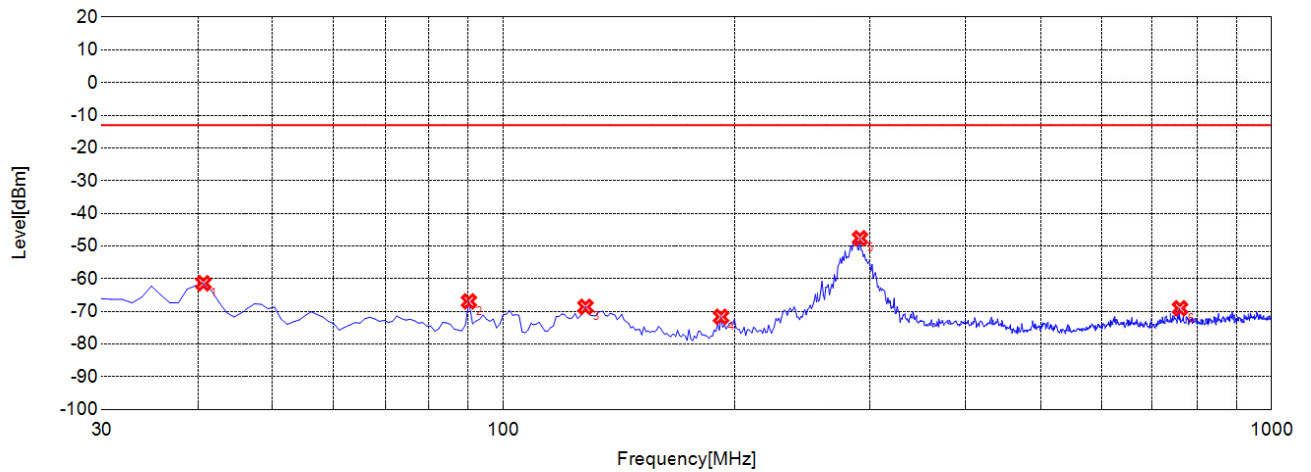
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-55.43	-13.00	42.43	-8.07	-39.56	31.49	Horizontal
2	90.2000	-69.3	-13.00	56.30	-18.92	-38.71	19.79	Horizontal
3	103.7940	-70.56	-13.00	57.56	-17.50	-38.70	21.20	Horizontal
4	222.2520	-66.9	-13.00	53.90	-11.91	-37.55	25.64	Horizontal
5	281.4810	-51.44	-13.00	38.44	-12.00	-37.03	25.03	Horizontal
6	679.5800	-71.4	-13.00	58.40	-4.47	-34.39	29.92	Horizontal

CA_2A_13A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



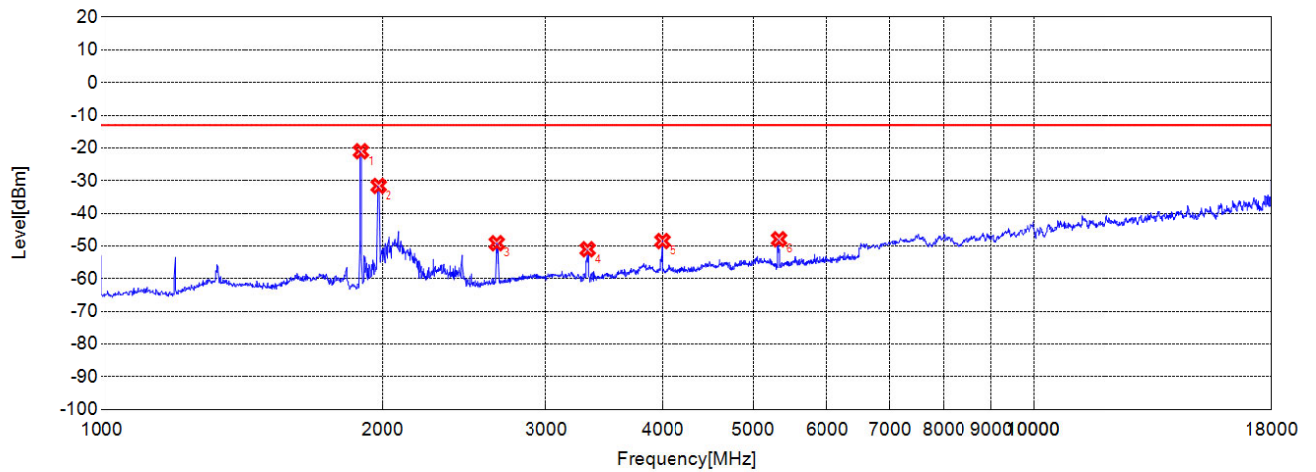
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	40.6810	-61.4	-13.00	48.40	-16.24	-39.53	23.29	Vertical
2	90.2000	-66.93	-13.00	53.93	-16.50	-38.71	22.21	Vertical
3	128.0680	-68.61	-13.00	55.61	-16.58	-38.52	21.94	Vertical
4	192.1520	-71.66	-13.00	58.66	-15.55	-38.04	22.49	Vertical
5	291.1910	-47.65	-13.00	34.65	-12.07	-36.97	24.90	Vertical
6	760.1700	-69.05	-13.00	56.05	-2.30	-34.21	31.91	Vertical

CA_2A_13A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

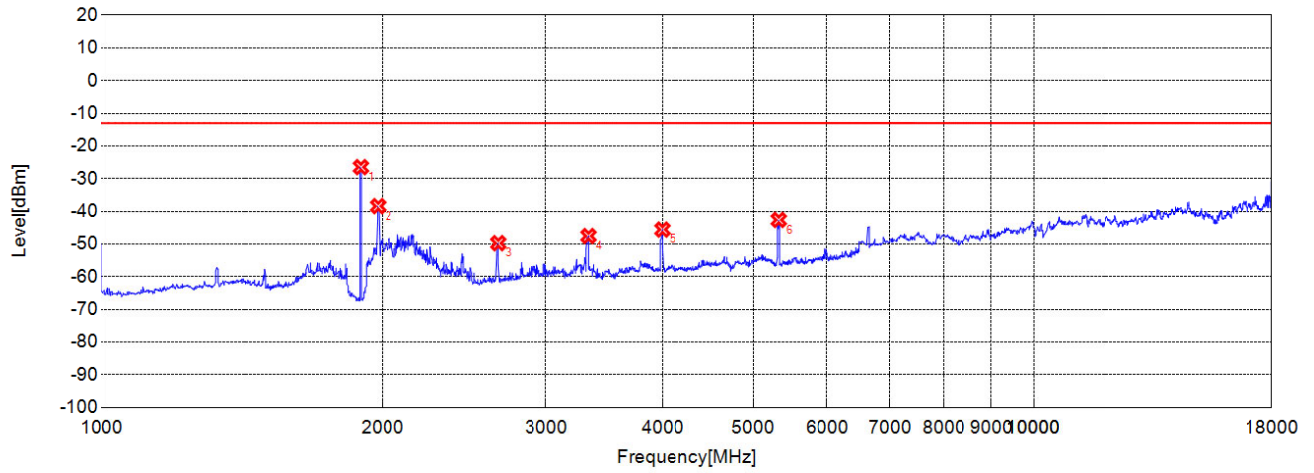


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1894.8950	-21.01	-13.00	8.01	-6.23	-46.73	40.50	NA
2	1978.9790	-31.62	-13.00	18.62	-4.60	-46.34	41.74	NA
3	2653.6540	-49.16	-13.00	36.16	-10.18	-47.30	37.12	Horizontal
4	3325.8260	-51	-13.00	38.00	-9.98	-48.05	38.07	Horizontal
5	3994.9950	-48.48	-13.00	35.48	-7.71	-47.33	39.62	Horizontal
6	5326.3260	-47.95	-13.00	34.95	-2.71	-43.21	40.50	Horizontal

CA_2A_13A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

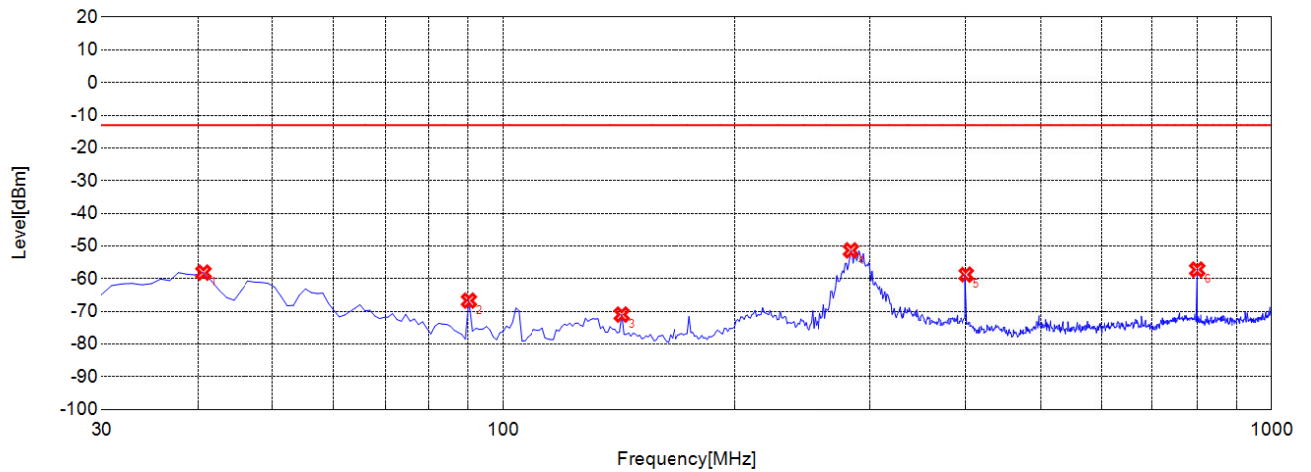


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1894.8950	-26.48	-13.00	13.48	-11.19	-46.73	35.54	NA
2	1976.9770	-38.43	-13.00	25.43	-10.25	-46.34	36.09	NA
3	2663.6640	-49.74	-13.00	36.74	-10.38	-47.33	36.95	Vertical
4	3332.8330	-47.56	-13.00	34.56	-10.54	-48.05	37.51	Vertical
5	3994.9950	-45.58	-13.00	32.58	-8.15	-47.33	39.18	Vertical
6	5322.8230	-42.63	-13.00	29.63	-3.15	-43.23	40.08	Vertical

CA_2A_13A High 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

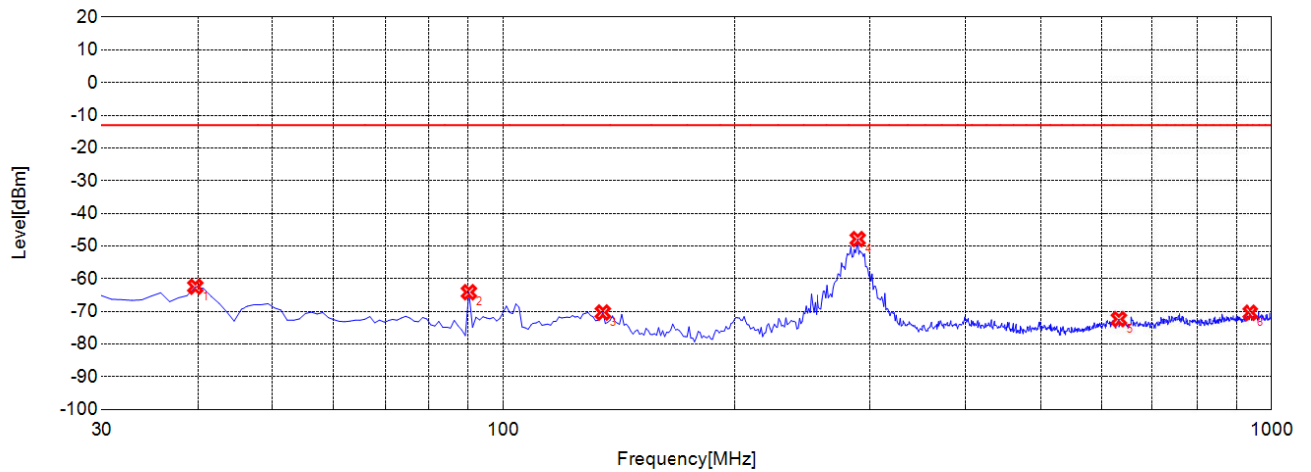


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	40.6810	-58.14	-13.00	45.14	-7.05	-39.53	32.48	Horizontal
2	90.2000	-66.71	-13.00	53.71	-18.92	-38.71	19.79	Horizontal
3	142.6330	-70.98	-13.00	57.98	-20.95	-38.60	17.65	Horizontal
4	283.4230	-51.34	-13.00	38.34	-11.94	-37.01	25.07	Horizontal
5	399.9400	-58.75	-13.00	45.75	-10.14	-36.26	26.12	Horizontal
6	799.9800	-57.22	-13.00	44.22	-3.49	-34.24	30.75	Horizontal

CA_2A_13A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



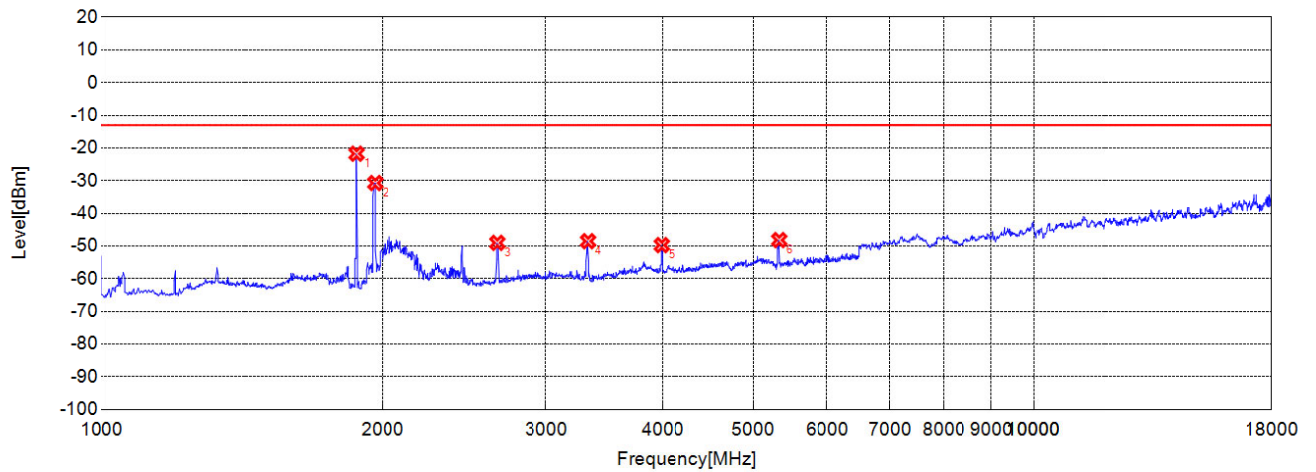
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	39.7100	-62.45	-13.00	49.45	-16.34	-39.54	23.20	Vertical
2	90.2000	-64.14	-13.00	51.14	-16.50	-38.71	22.21	Vertical
3	134.8650	-70.35	-13.00	57.35	-16.03	-38.54	22.51	Vertical
4	289.2490	-47.89	-13.00	34.89	-12.11	-36.97	24.86	Vertical
5	633.9440	-72.36	-13.00	59.36	-5.29	-34.57	29.28	Vertical
6	937.8580	-70.42	-13.00	57.42	-1.54	-34.05	32.51	Vertical

CA_2A_13A High 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph

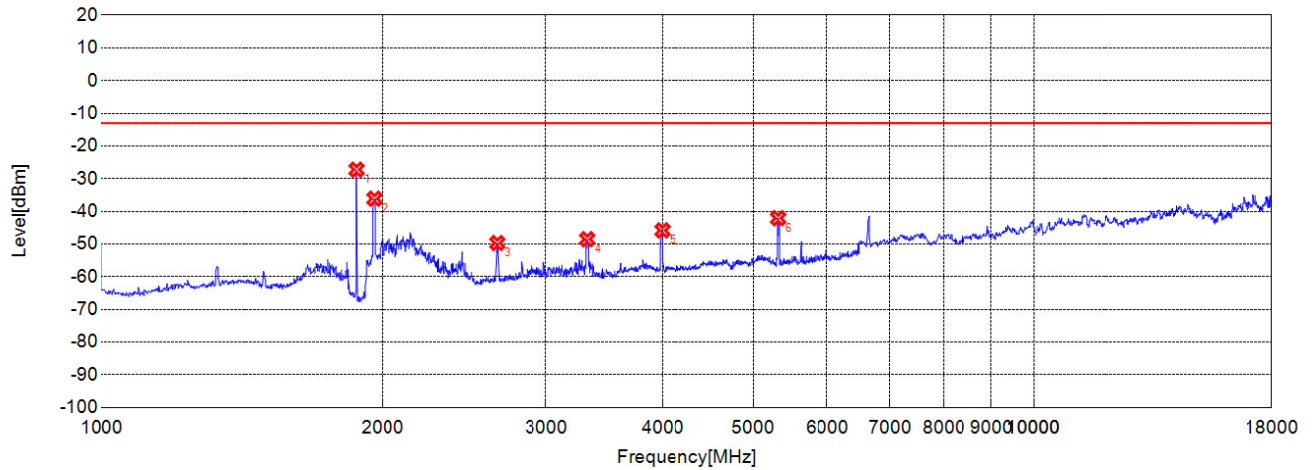


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1874.8750	-21.77	-13.00	8.77	-6.72	-46.70	39.98	NA
2	1962.9630	-30.73	-13.00	17.73	-4.87	-46.39	41.52	NA
3	2657.6580	-49.04	-13.00	36.04	-10.17	-47.31	37.14	Horizontal
4	3329.3290	-48.53	-13.00	35.53	-9.97	-48.05	38.08	Horizontal
5	3987.9880	-49.73	-13.00	36.73	-7.69	-47.33	39.64	Horizontal
6	5329.8300	-48.19	-13.00	35.19	-2.66	-43.18	40.52	Horizontal

CA_2A_13A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H

Test Graph

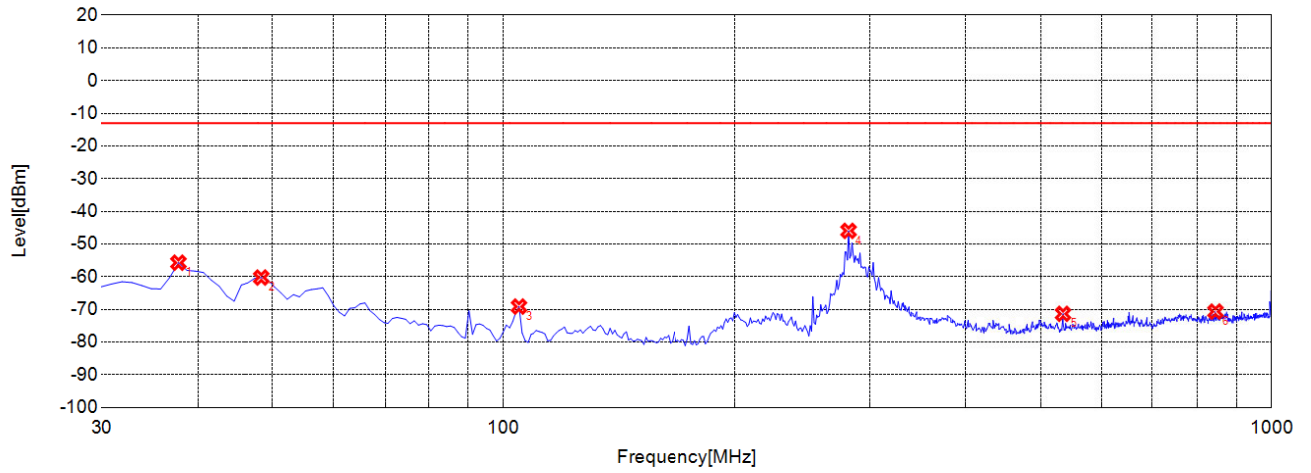


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1874.8750	-27.25	-13.00	14.25	-10.84	-46.70	35.86	NA
2	1958.9590	-36.12	-13.00	23.12	-10.46	-46.40	35.94	NA
3	2657.6580	-49.7	-13.00	36.70	-10.38	-47.31	36.93	Vertical
4	3322.3220	-48.53	-13.00	35.53	-10.55	-48.05	37.50	Vertical
5	3994.9950	-45.83	-13.00	32.83	-8.15	-47.33	39.18	Vertical
6	5315.8160	-42.11	-13.00	29.11	-3.23	-43.28	40.05	Vertical

CA_2A_13A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G V

Test Graph

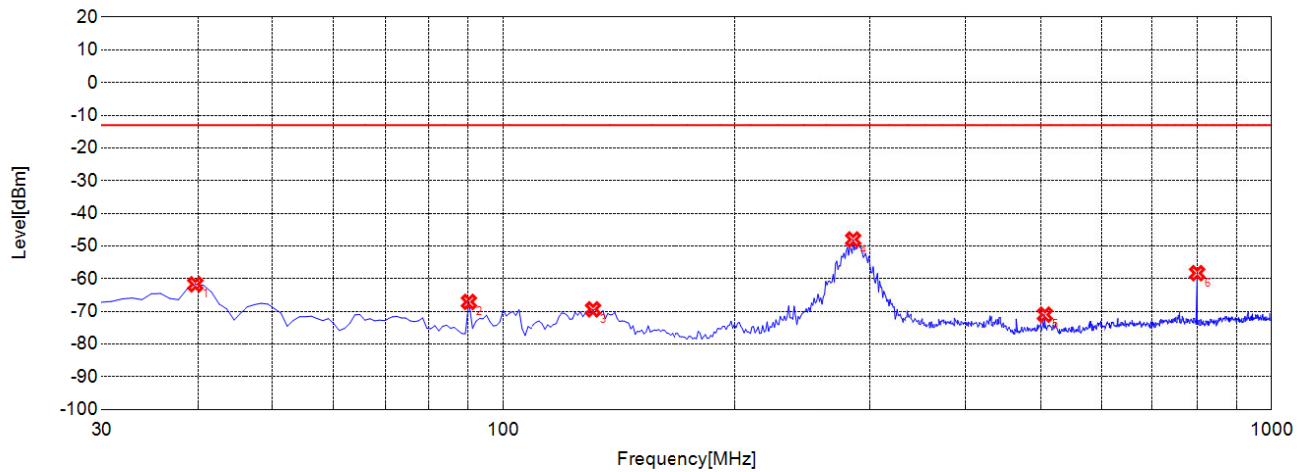


○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-55.72	-13.00	42.72	-8.07	-39.56	31.49	Horizontal
2	48.4480	-60.26	-13.00	47.26	-7.02	-39.47	32.45	Horizontal
3	104.7650	-69.14	-13.00	56.14	-17.53	-38.70	21.17	Horizontal
4	281.4810	-45.97	-13.00	32.97	-12.00	-37.03	25.03	Horizontal
5	534.9050	-71.36	-13.00	58.36	-6.36	-34.94	28.58	Horizontal
6	844.6450	-70.68	-13.00	57.68	-2.48	-34.11	31.63	Horizontal

CA_2A_13A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G H

Test Graph



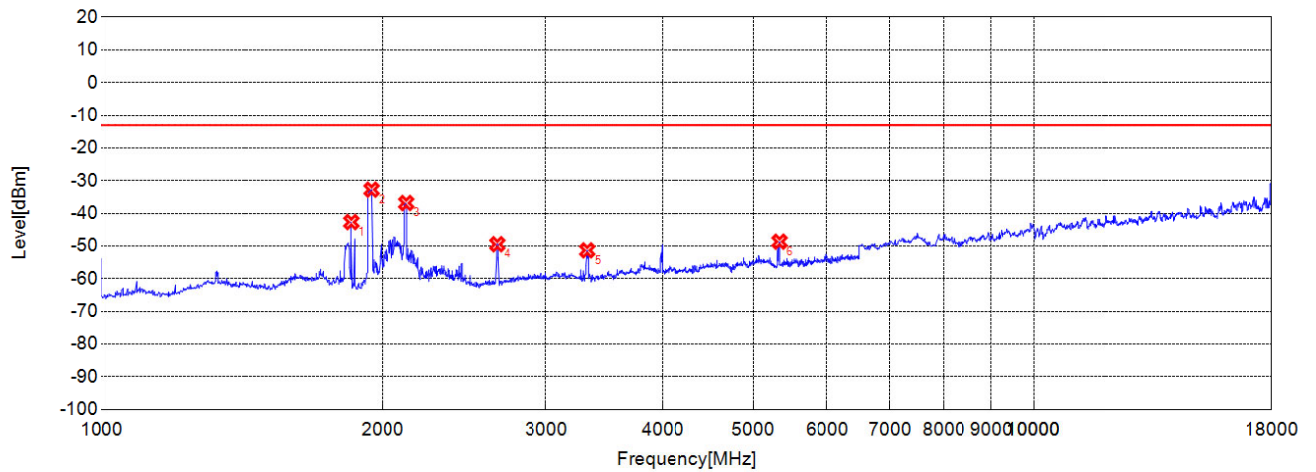
○ Final Test

Suspected List

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	39.7100	-61.71	-13.00	48.71	-16.34	-39.54	23.20	Vertical
2	90.2000	-67.09	-13.00	54.09	-16.50	-38.71	22.21	Vertical
3	130.9810	-69.36	-13.00	56.36	-16.73	-38.51	21.78	Vertical
4	285.3650	-48	-13.00	35.00	-12.28	-37.00	24.72	Vertical
5	506.7470	-71.01	-13.00	58.01	-7.76	-35.22	27.46	Vertical
6	799.9800	-58.3	-13.00	45.30	-3.62	-34.24	30.62	Vertical

CA_2A_13A Middle 20M QPSK PCC RB 1 0 SCC RB 0 0 30M-1G V

Test Graph



○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1850.8510	-42.68	-13.00	29.68	-7.29	-46.66	39.37	NA
2	1944.9450	-32.76	-13.00	19.76	-5.20	-46.46	41.26	NA
3	2123.1230	-36.85	-13.00	23.85	-8.19	-47.05	38.86	NA
4	2657.6580	-49.46	-13.00	36.46	-10.17	-47.31	37.14	Horizontal
5	3322.3220	-51.32	-13.00	38.32	-10.00	-48.05	38.05	Horizontal
6	5333.3330	-48.68	-13.00	35.68	-2.61	-43.15	40.54	Horizontal

CA_2A_66A Low 20M QPSK PCC RB 1 0 SCC RB 0 0 1-18G H