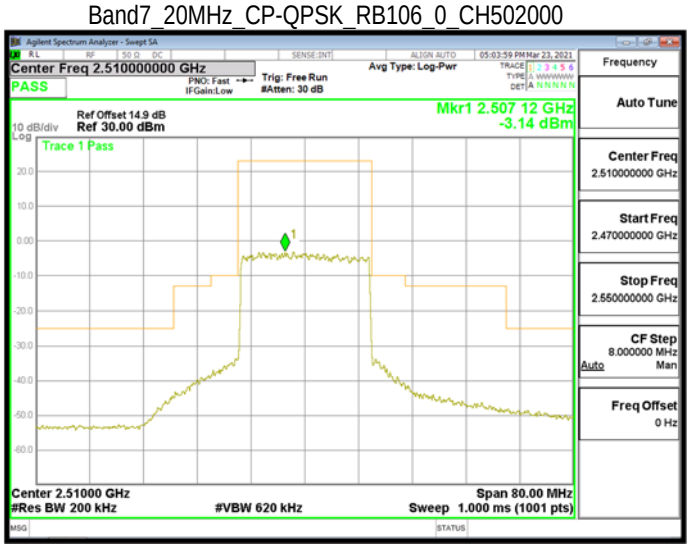
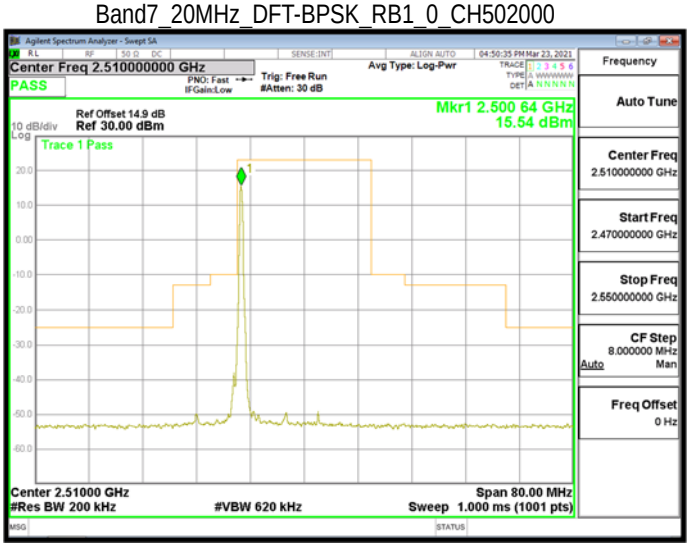
Band7_20MHz_CP-QPSK_RB106_0_CH502000



Band7_20MHz_DFT-BPSK_RB1_0_CH502000



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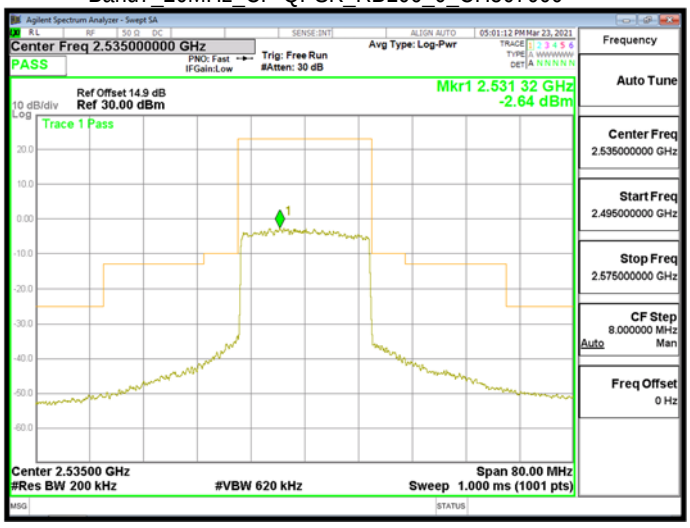

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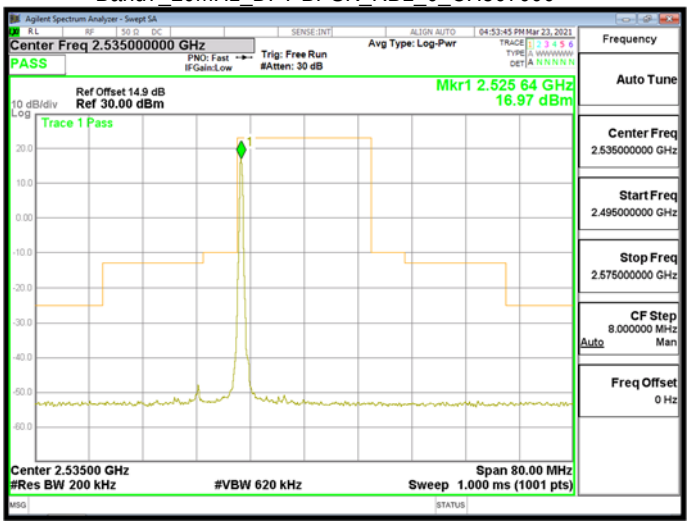

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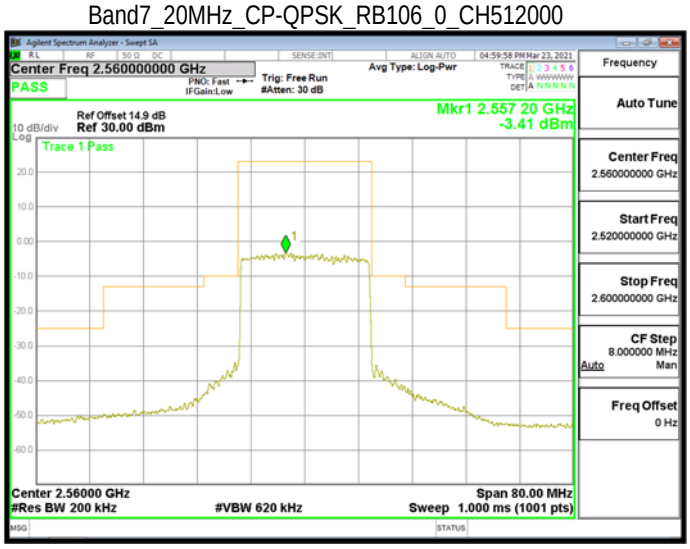
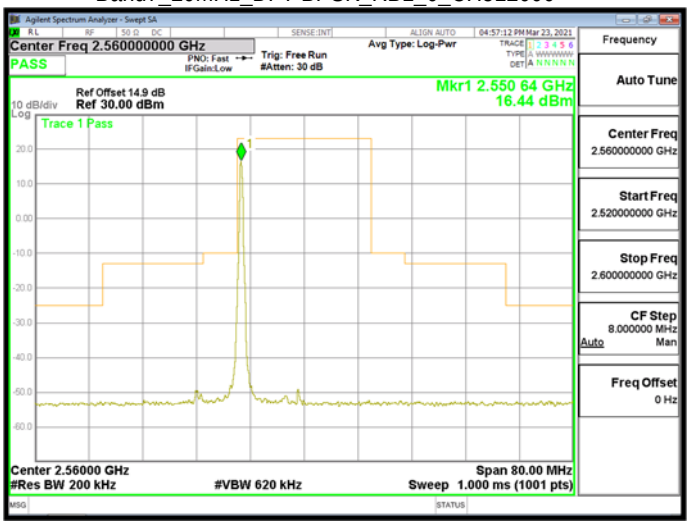


Band7_20MHz_DFT-BPSK_RB1_0_CH512000



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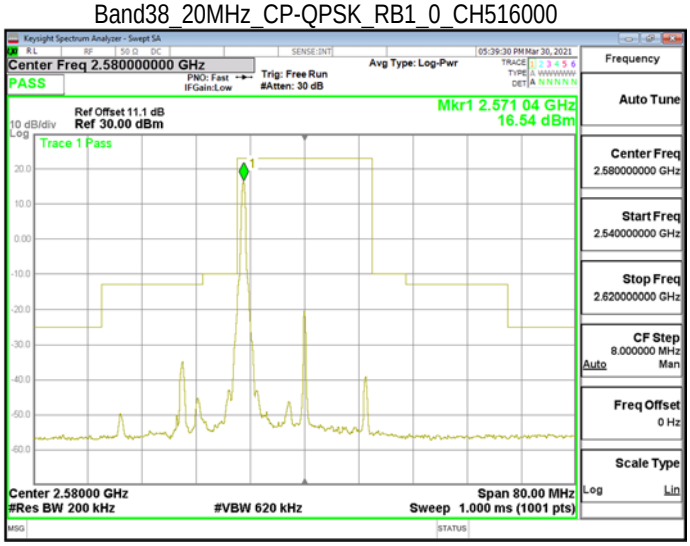
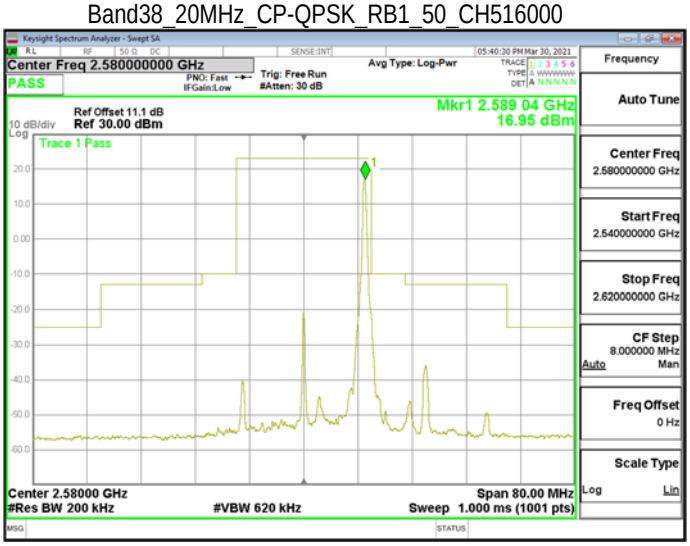
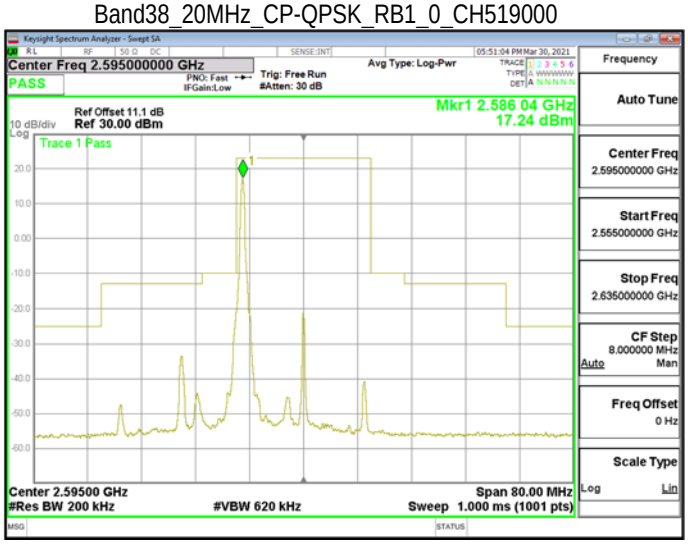
Band38_20MHz_CP-QPSK_RB1_0_CH516000



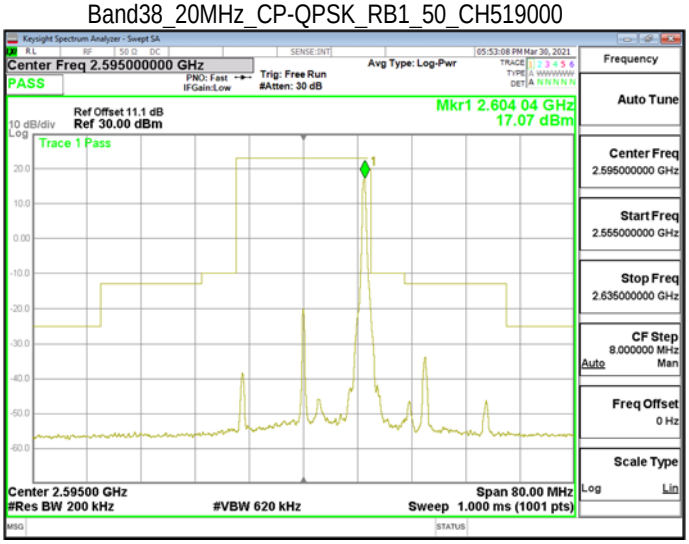
Band38_20MHz_CP-QPSK_RB1_50_CH516000



Band38_20MHz_CP-QPSK_RB1_0_CH519000



Band38_20MHz_CP-QPSK_RB1_50_CH519000



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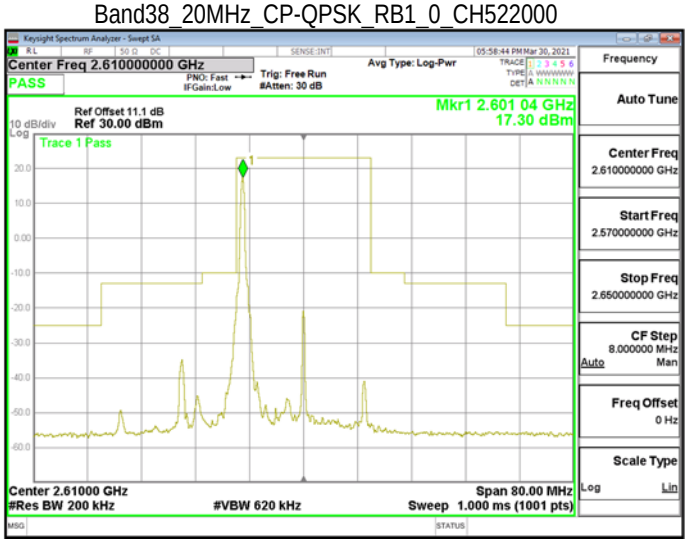
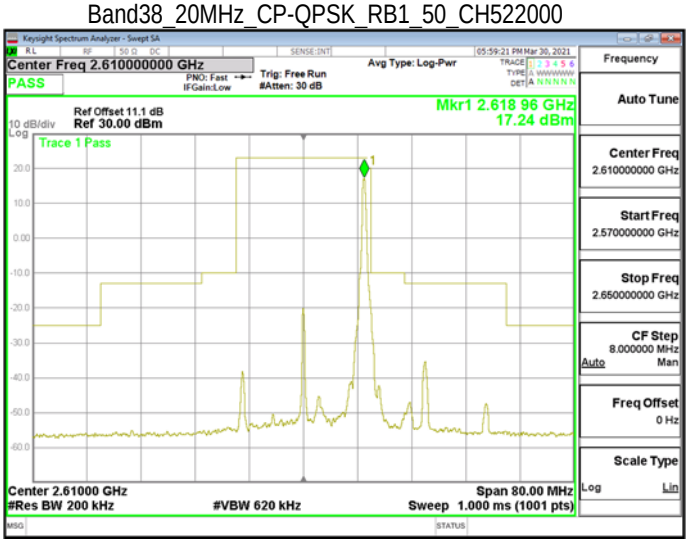


Band38_20MHz_CP-QPSK_RB1_50_CH522000



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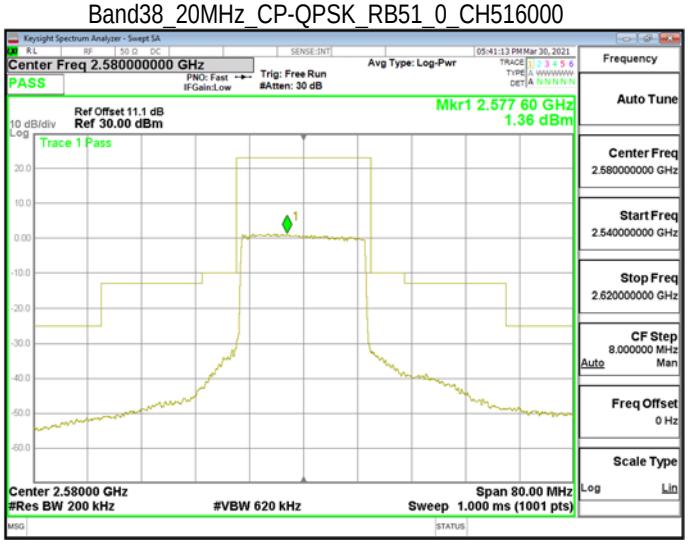
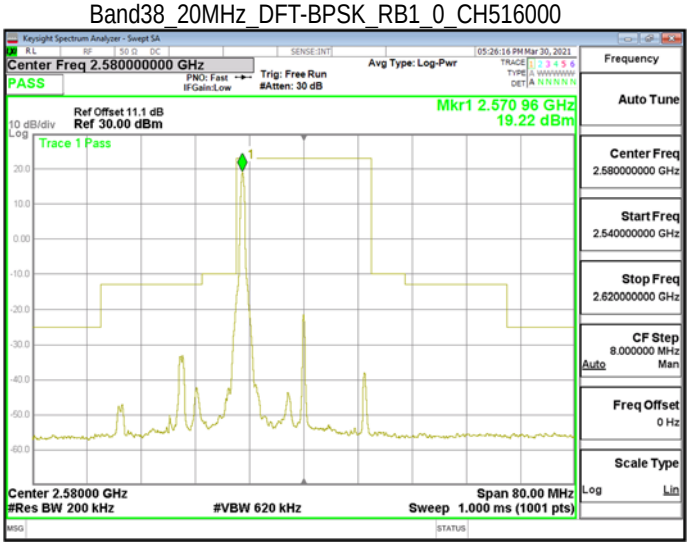
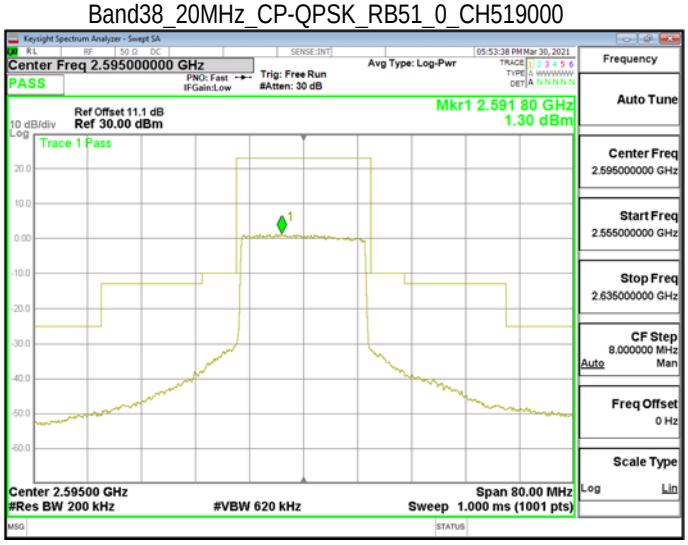
Band38_20MHz_CP-QPSK_RB51_0_CH516000



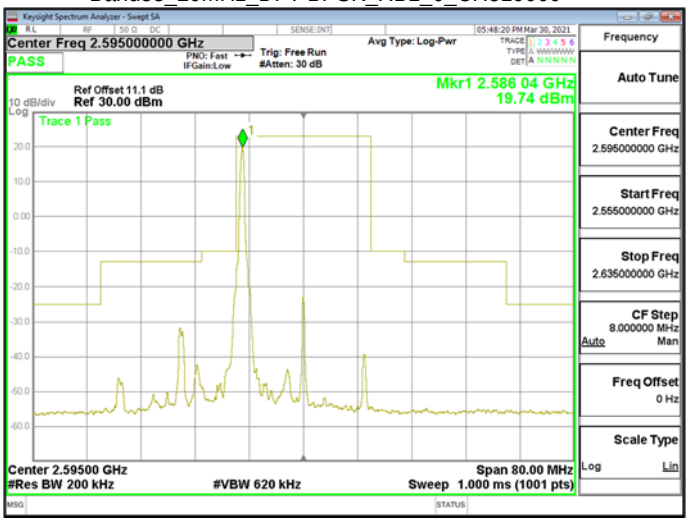
Band38_20MHz_DFT-BPSK_RB1_0_CH516000



Band38_20MHz_CP-QPSK_RB51_0_CH519000



Band38_20MHz_DFT-BPSK_RB1_0_CH519000



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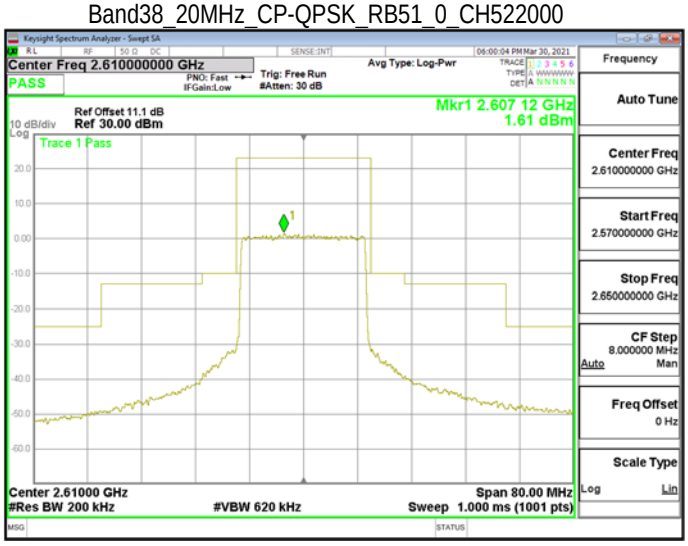
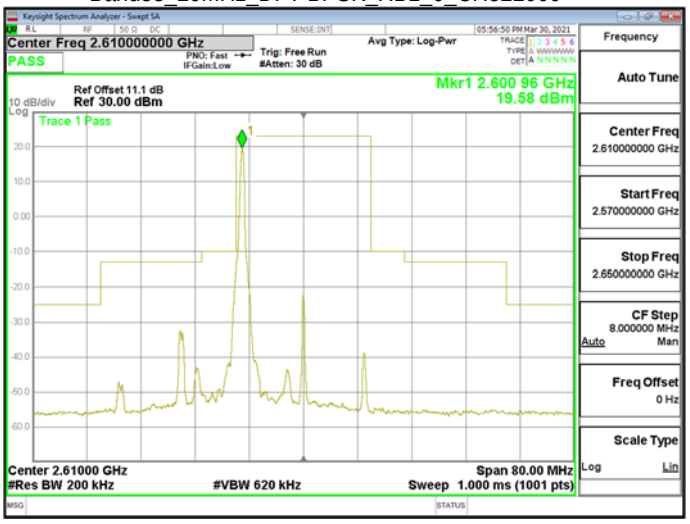


Band38_20MHz_DFT-BPSK_RB1_0_CH522000



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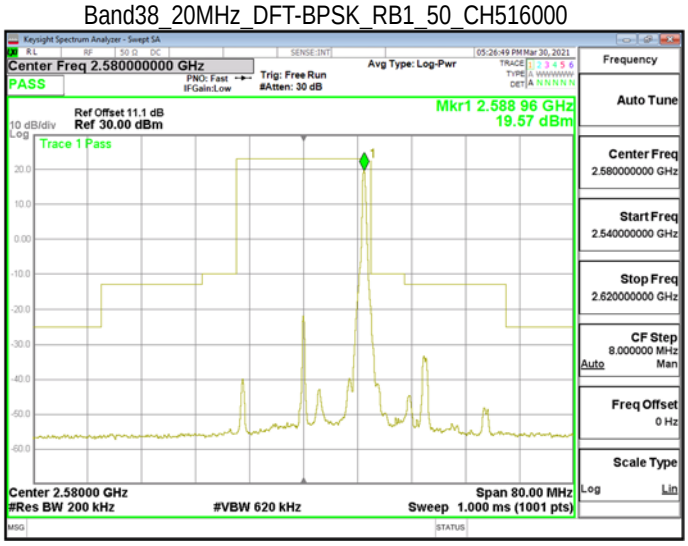
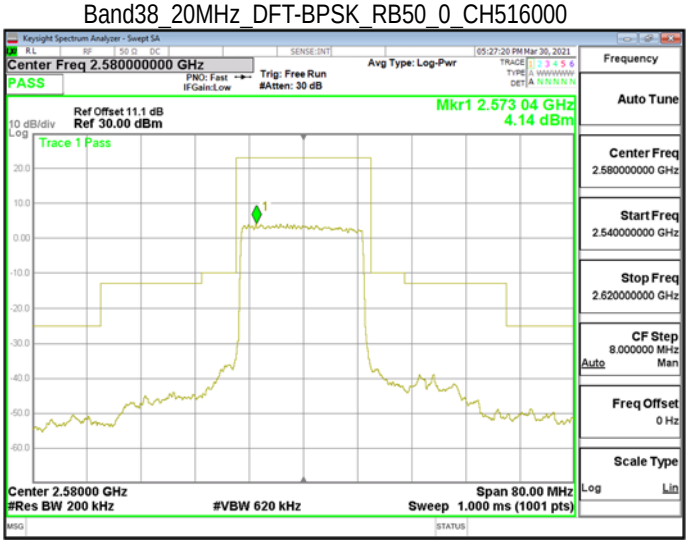
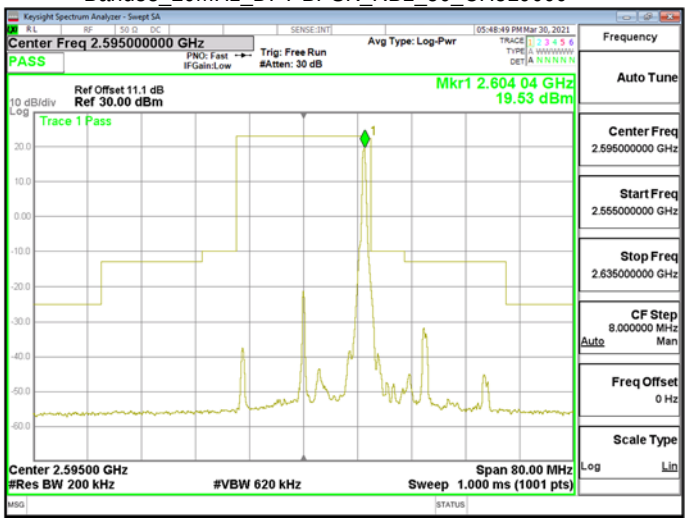
Band38_20MHz_DFT-BPSK_RB1_50_CH516000



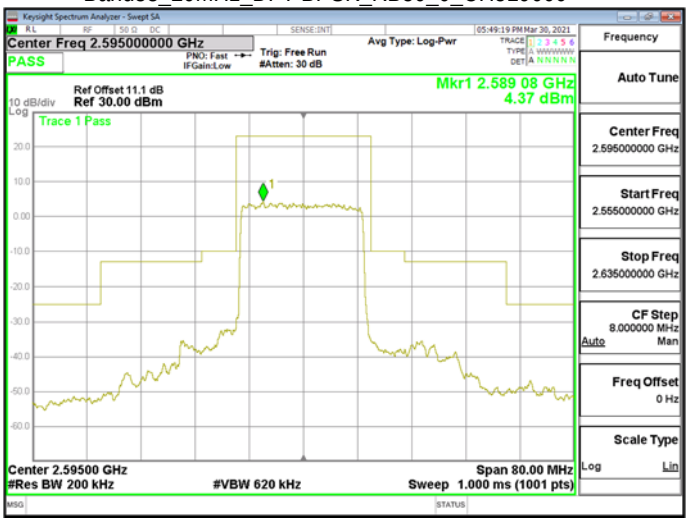
Band38_20MHz_DFT-BPSK_RB50_0_CH516000



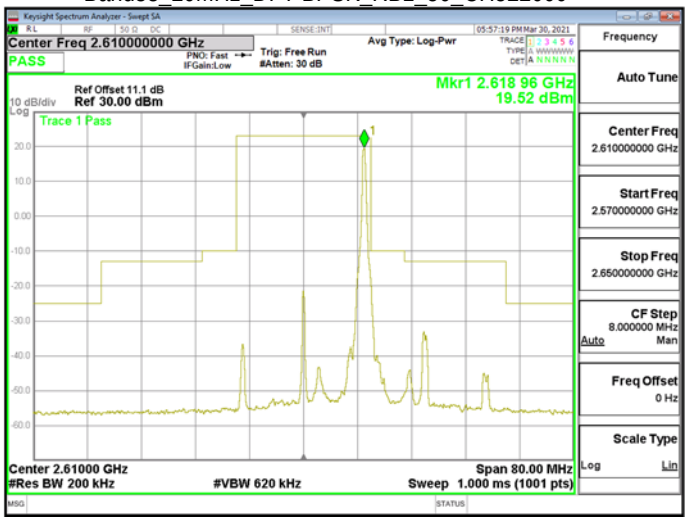
Band38_20MHz_DFT-BPSK_RB1_50_CH519000



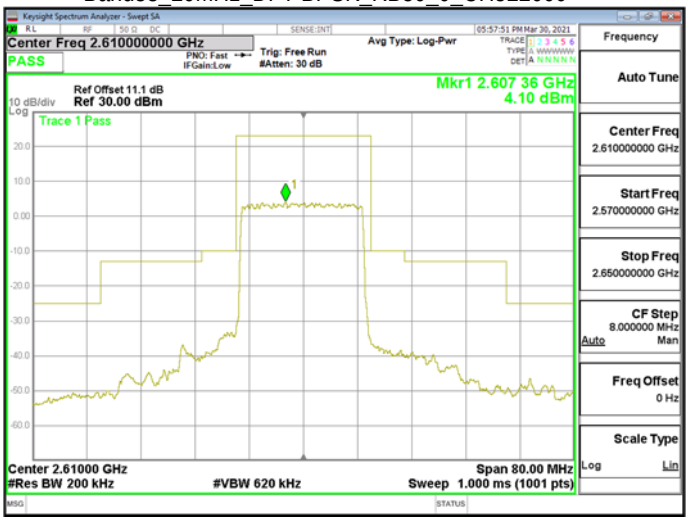
Band38_20MHz_DFT-BPSK_RB50_0_CH519000



Band38_20MHz_DFT-BPSK_RB1_50_CH522000



Band38_20MHz_DFT-BPSK_RB50_0_CH522000



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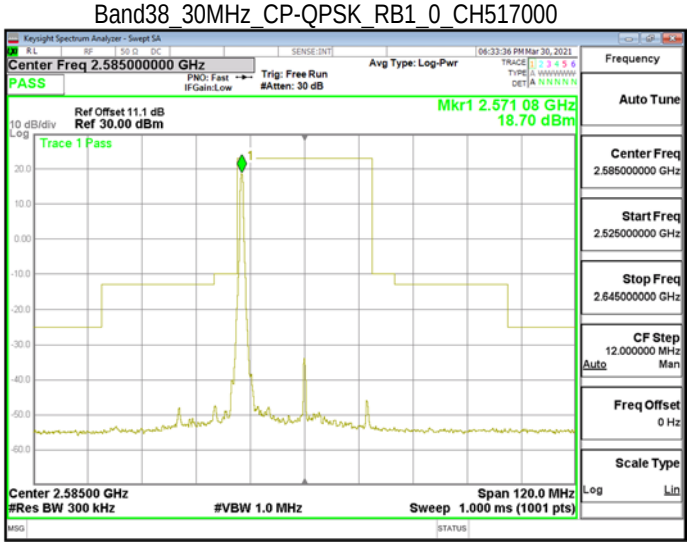
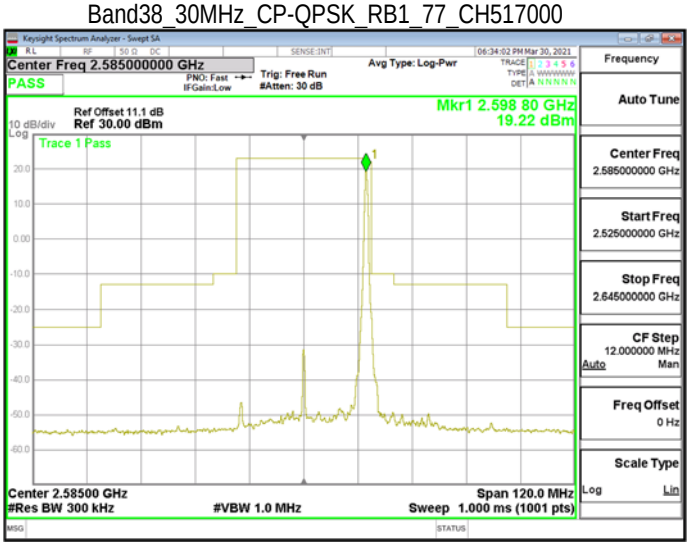
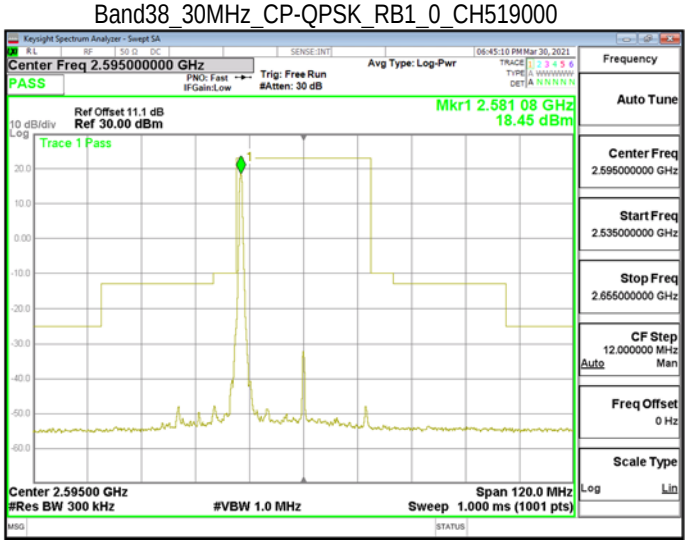
Band38_30MHz_CP-QPSK_RB1_0_CH517000



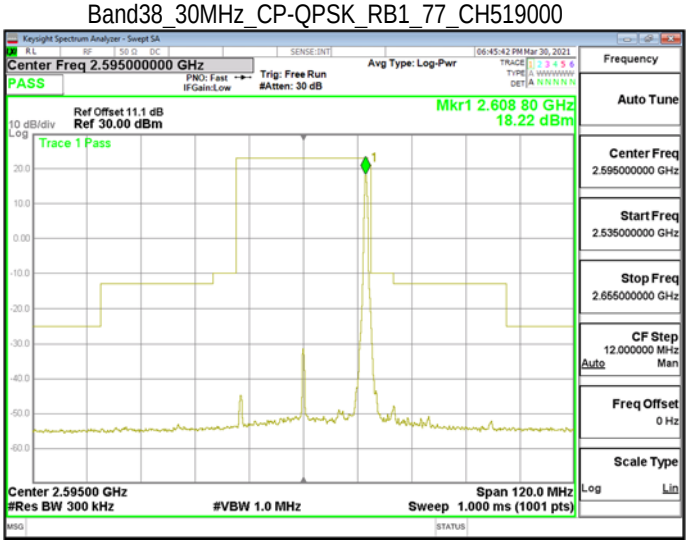
Band38_30MHz_CP-QPSK_RB1_77_CH517000



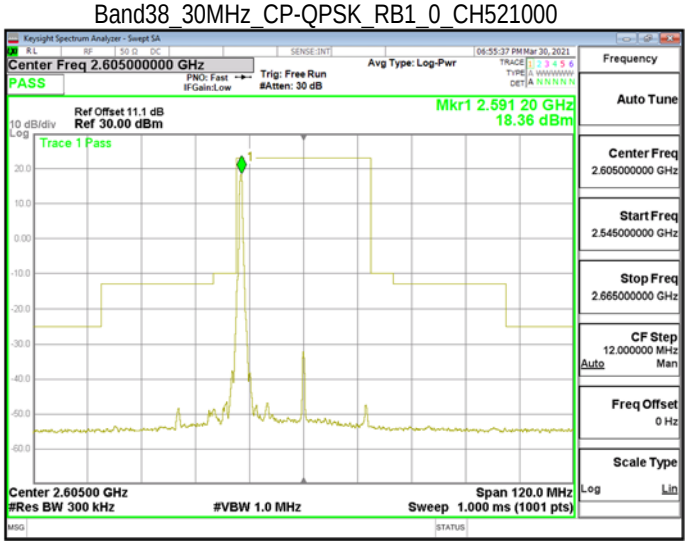
Band38_30MHz_CP-QPSK_RB1_0_CH519000



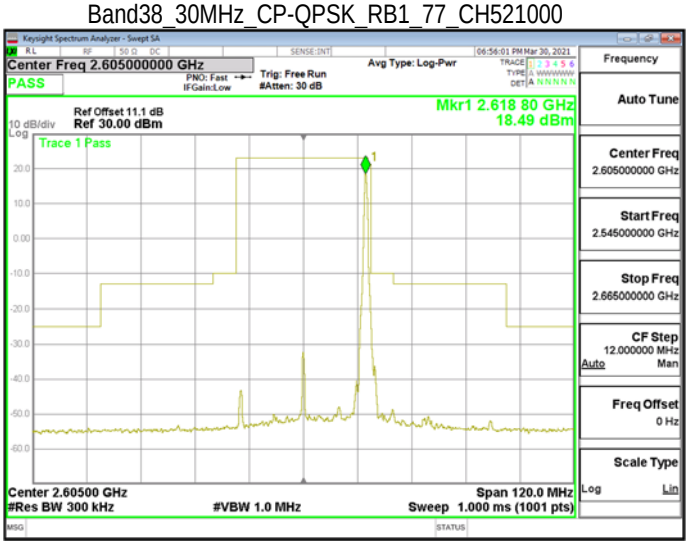
Band38_30MHz_CP-QPSK_RB1_77_CH519000



Band38_30MHz_CP-QPSK_RB1_0_CH521000



Band38_30MHz_CP-QPSK_RB1_77_CH521000



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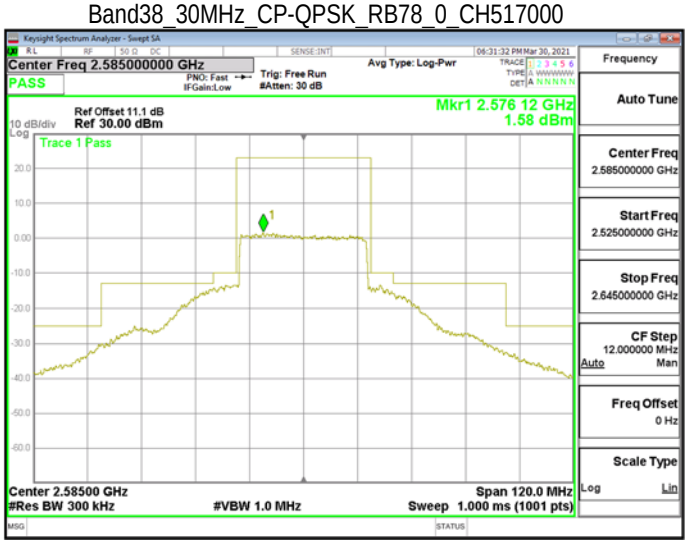
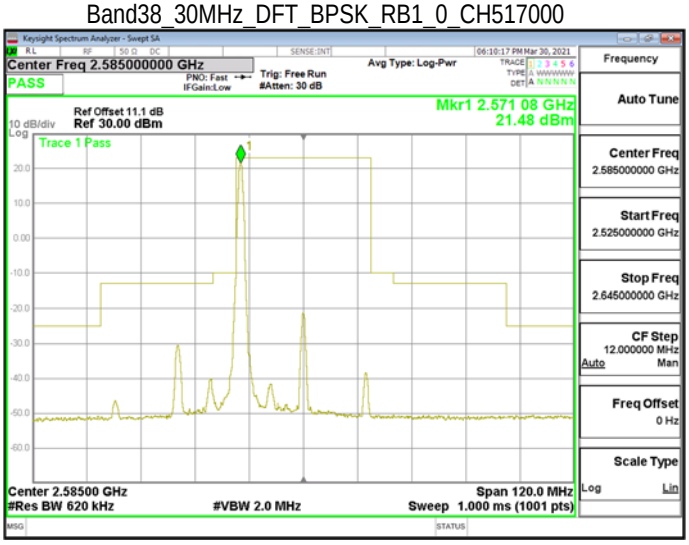
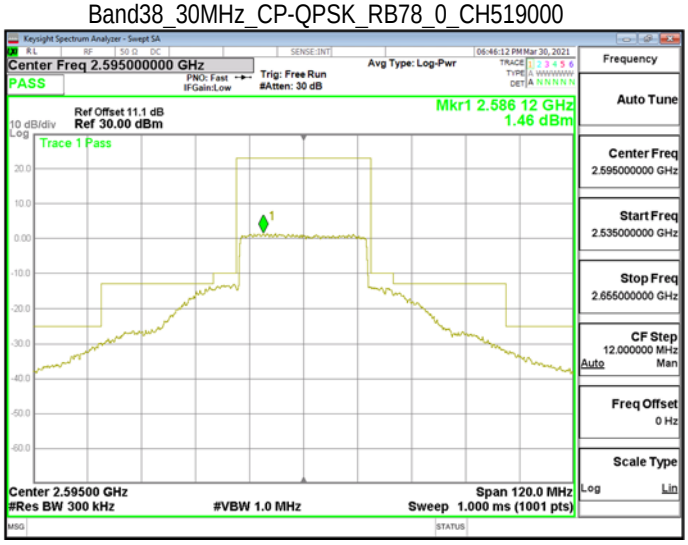
Band38_30MHz_CP-QPSK_RB78_0_CH517000



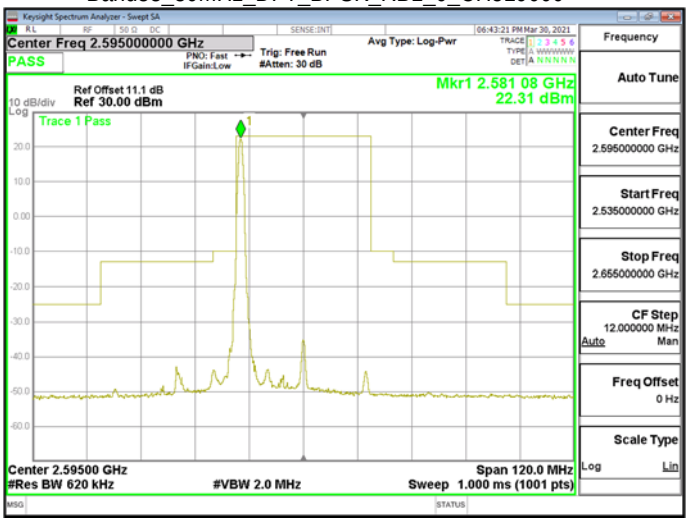
Band38_30MHz_DFT_BPSK_RB1_0_CH517000



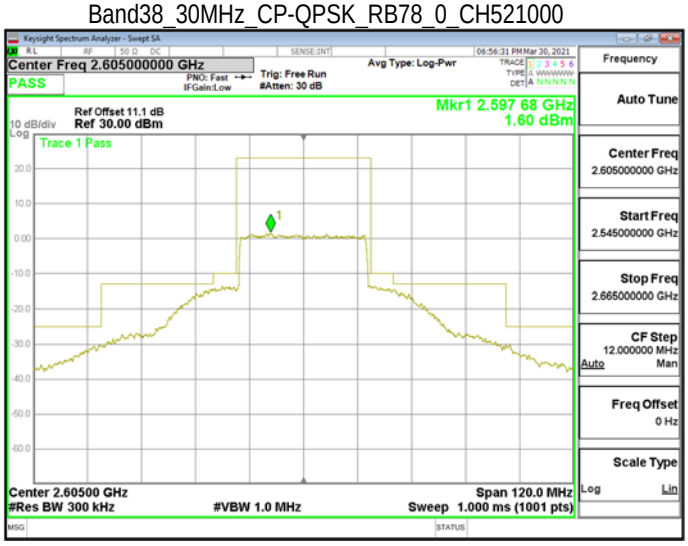
Band38_30MHz_CP-QPSK_RB78_0_CH519000



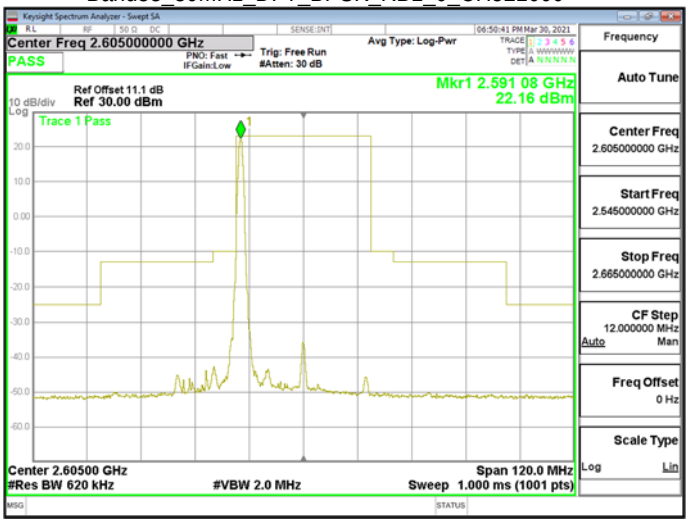
Band38_30MHz_DFT_BPSK_RB1_0_CH519000



Band38_30MHz_CP-QPSK_RB78_0_CH521000



Band38_30MHz_DFT_BPSK_RB1_0_CH521000



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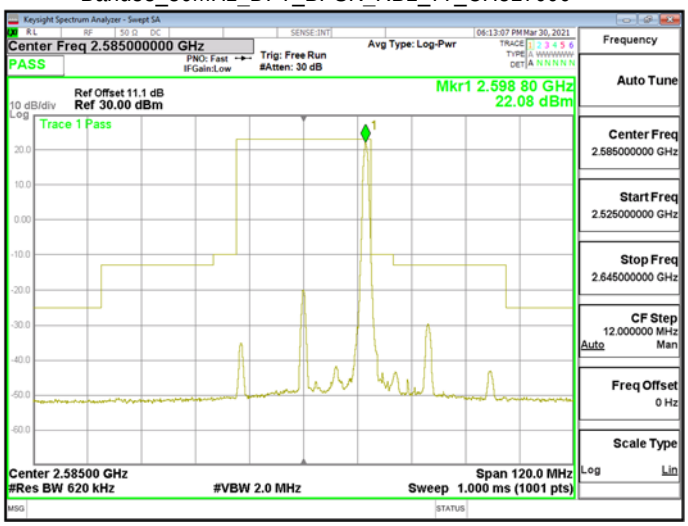
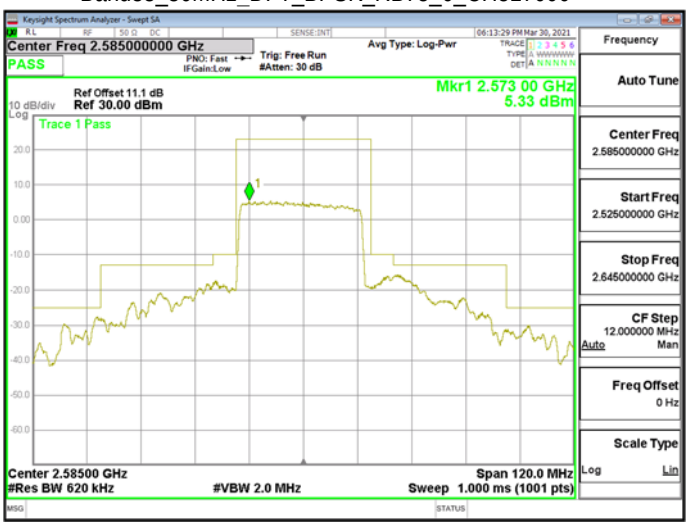
Band38_30MHz_DFT_BPSK_RB1_77_CH517000



Band38_30MHz_DFT_BPSK_RB75_0_CH517000



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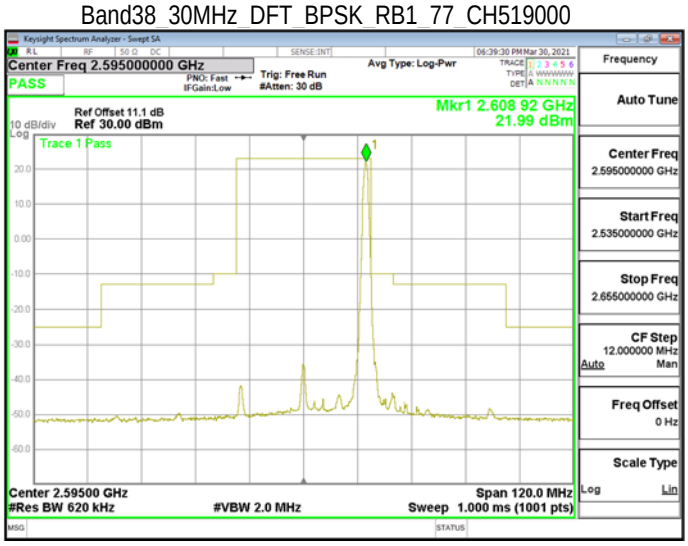

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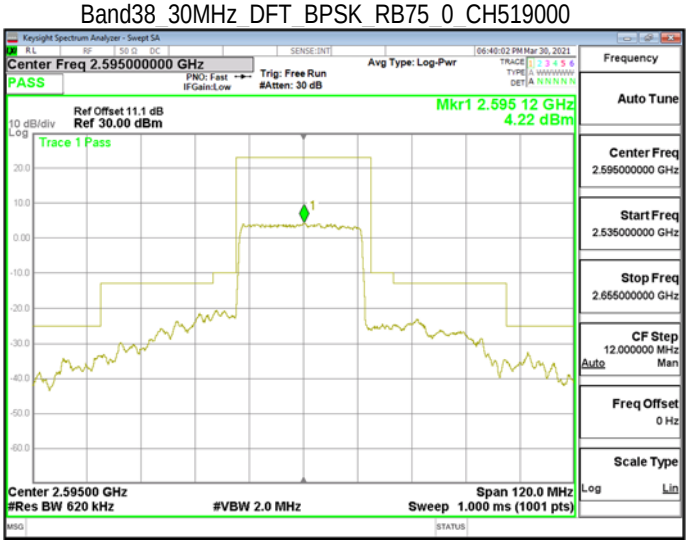

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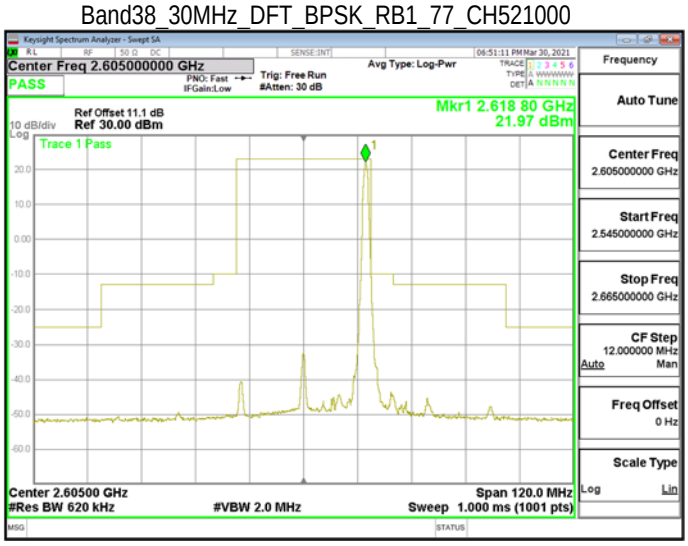

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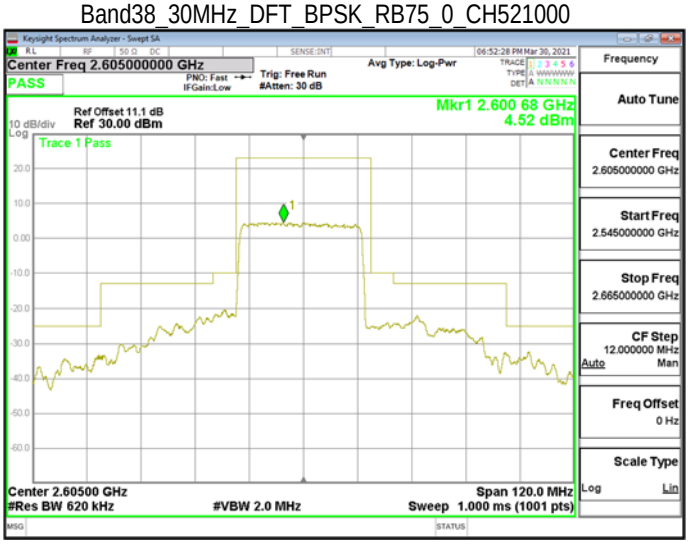

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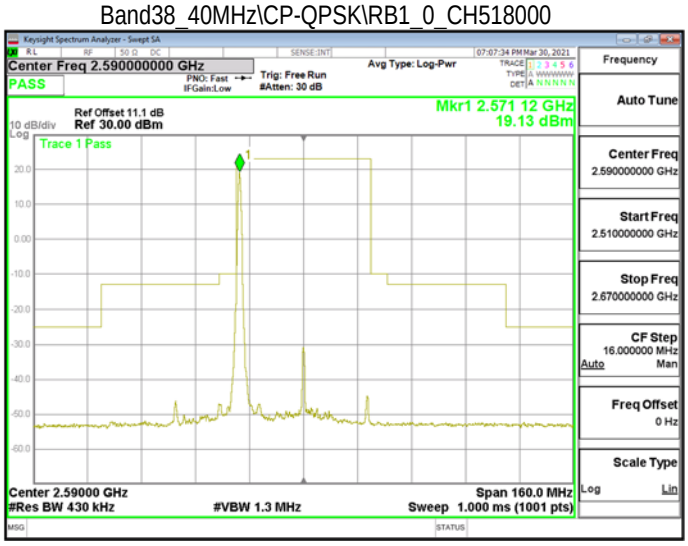
Band38_40MHz\CP-QPSK\RB1_0_CH518000



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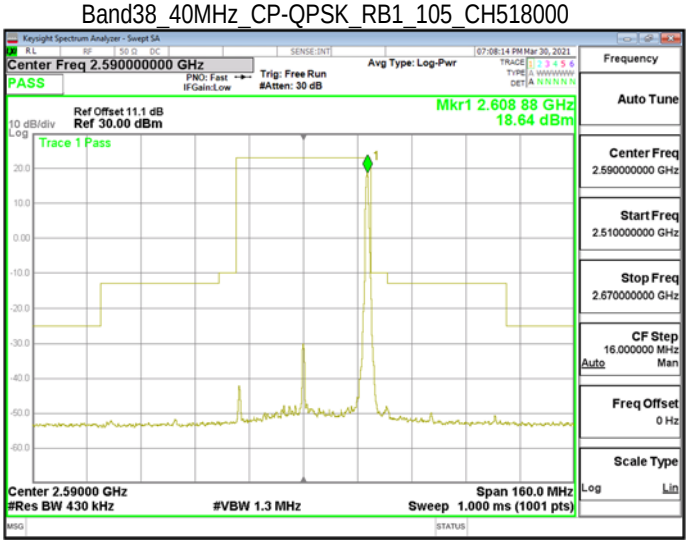

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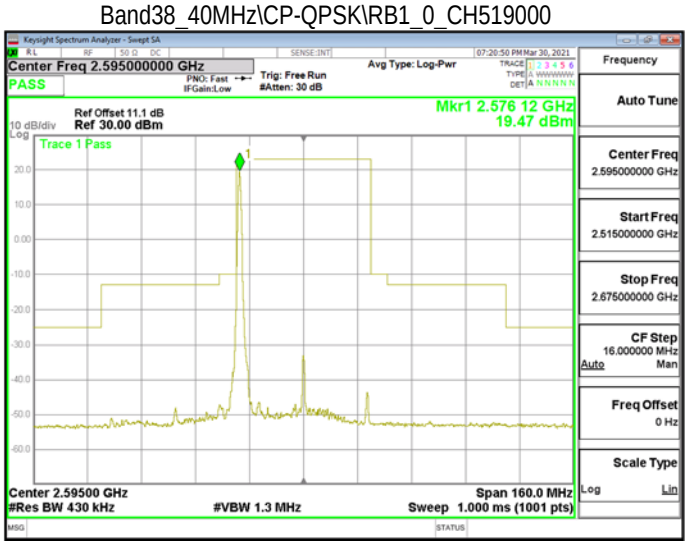

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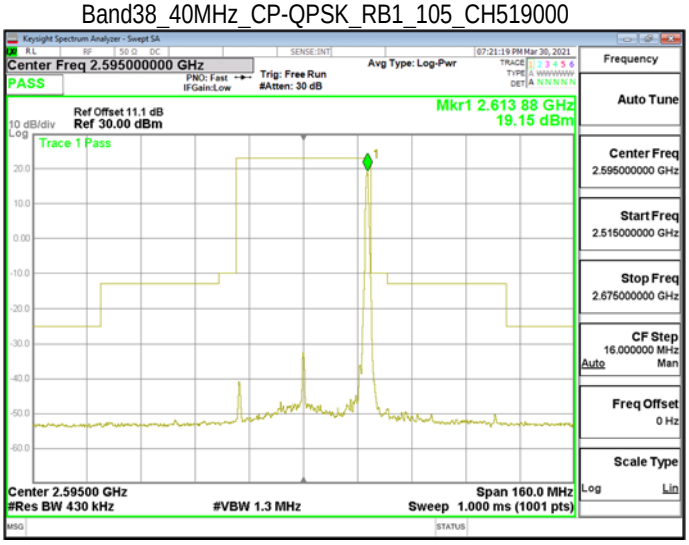

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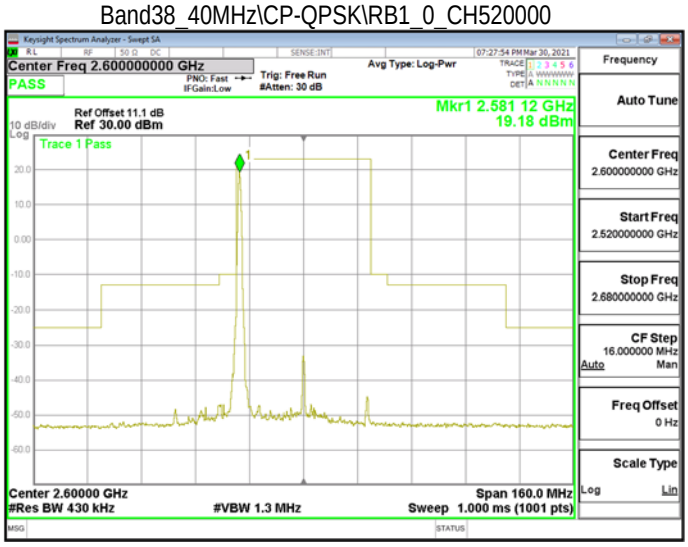

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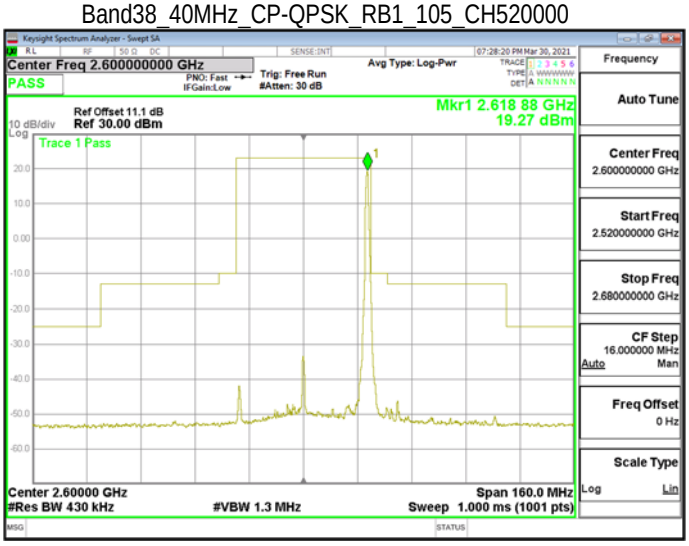

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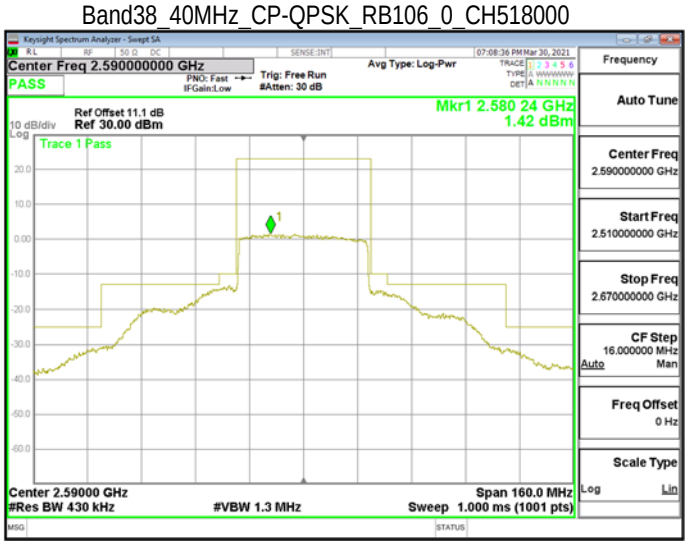
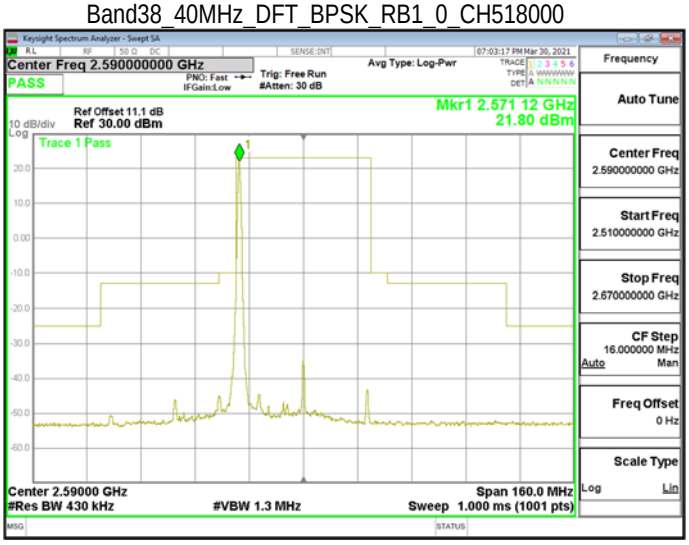
Band38_40MHz_CP-QPSK_RB106_0_CH518000



Band38_40MHz_DFT_BPSK_RB1_0_CH518000



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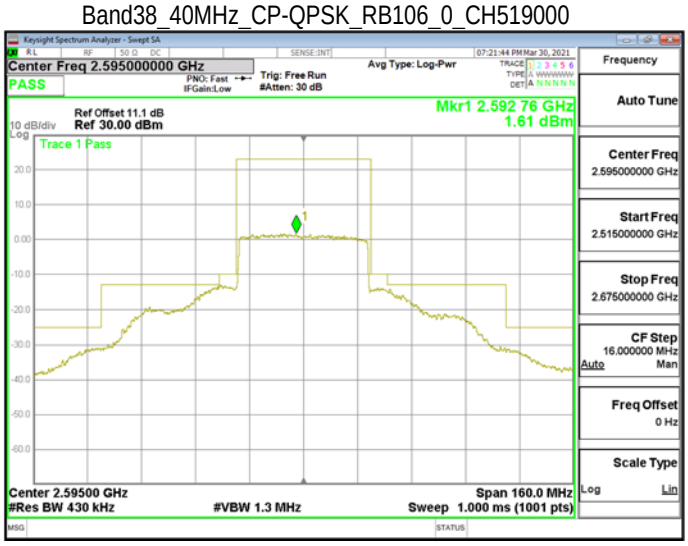

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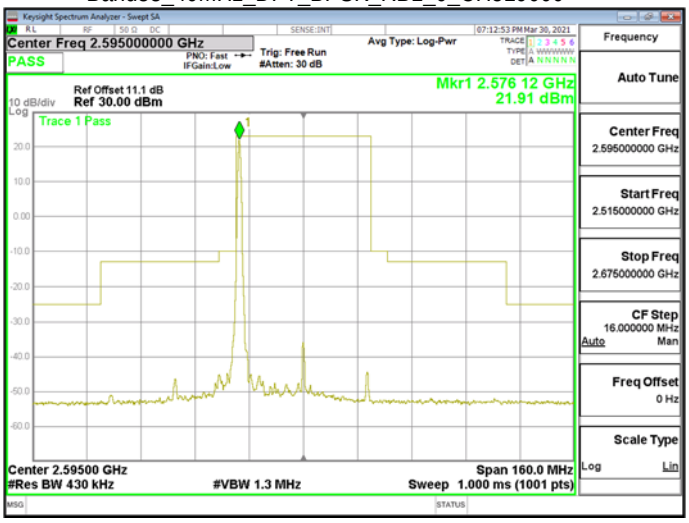

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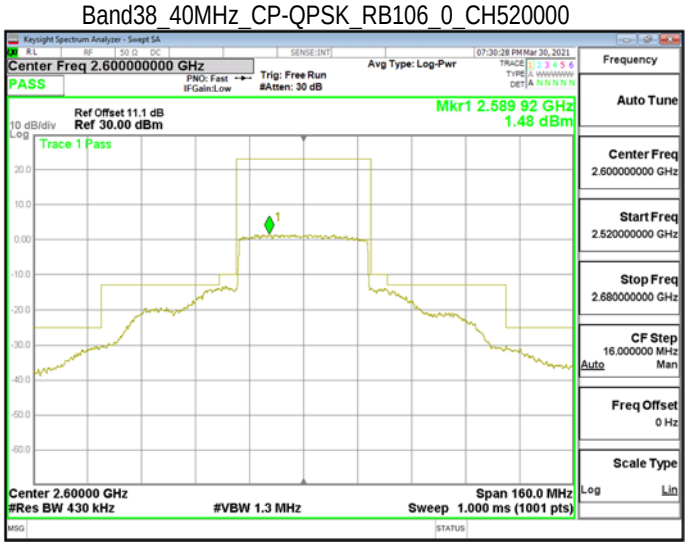

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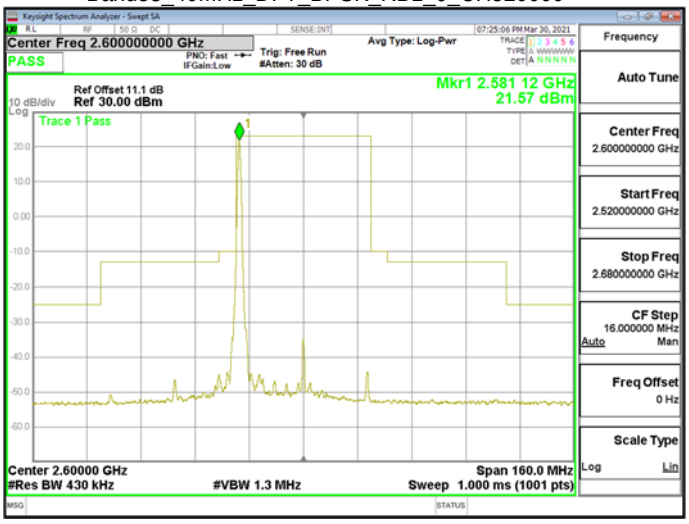

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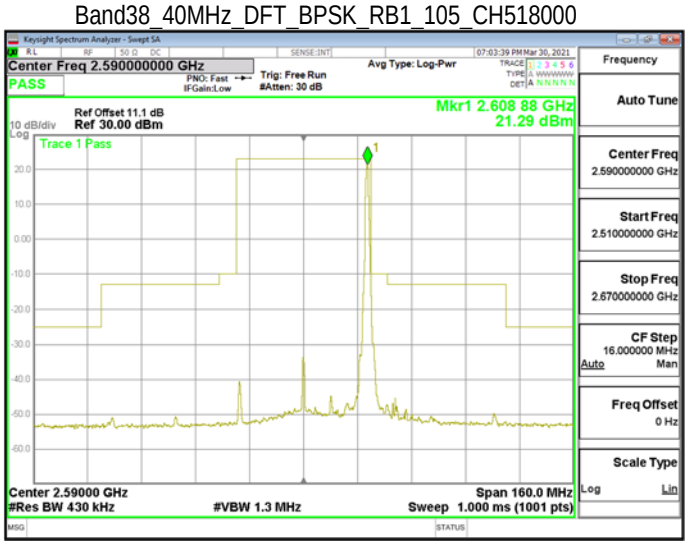
Band38_40MHz_DFT_BPSK_RB1_105_CH518000



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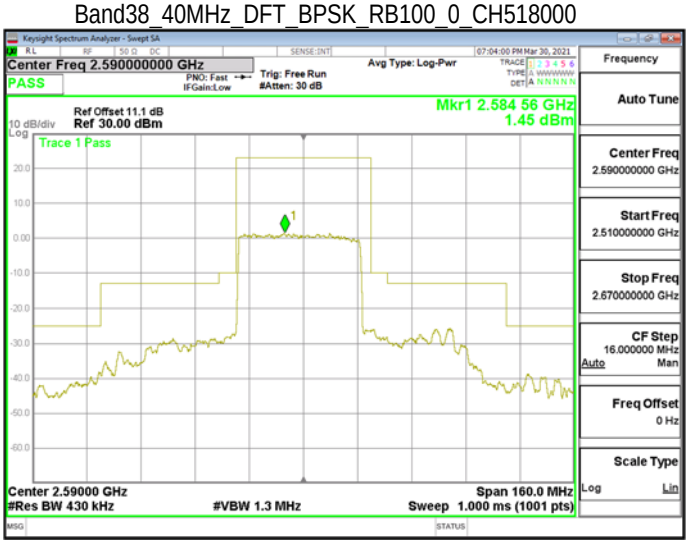

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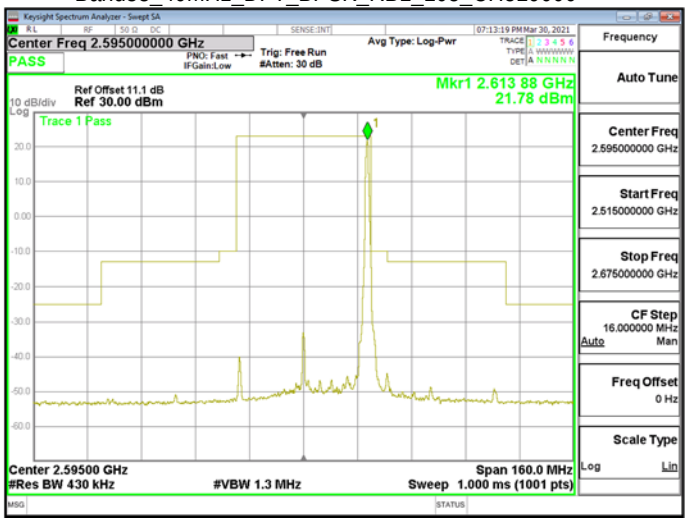

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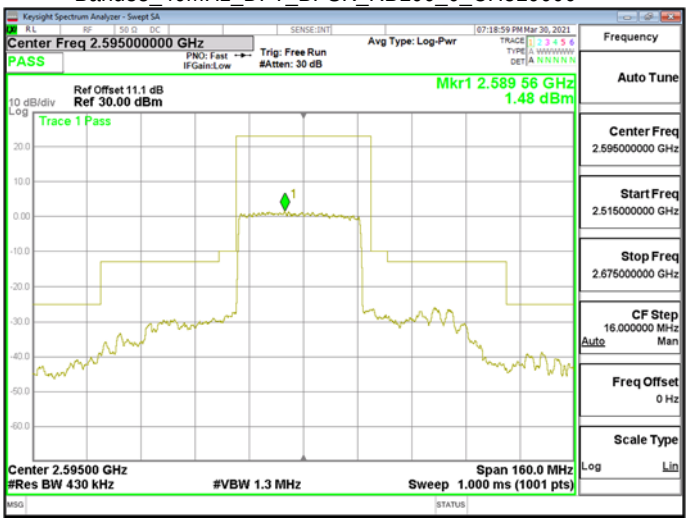

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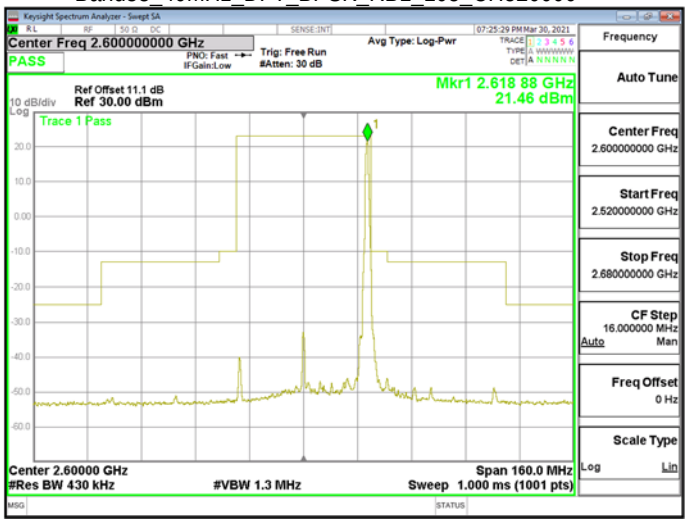

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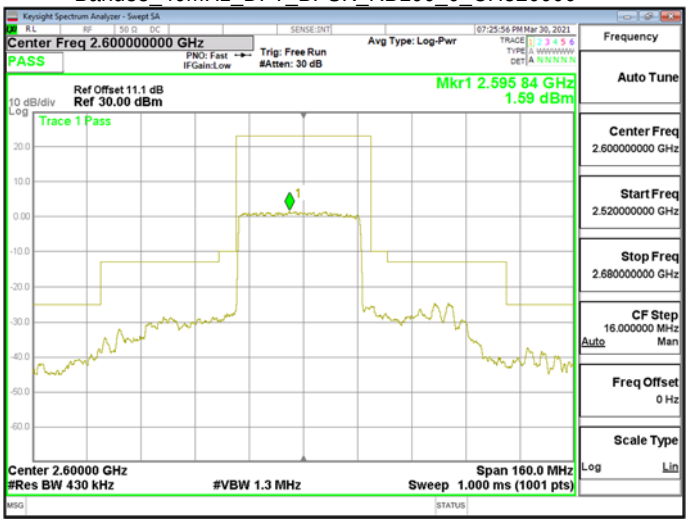

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h),
RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6, RSS-199 §4.5

Out of band emissions.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.

FCC §27.53(g) for 5G NR n12, n71

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.

(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 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
(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;

RSS-130 §4.7.1 for 5G NR n12, n71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

FCC §27.53(h)(1) for 5G NR n66

(h) *AWS emission limits*—(1) *General protection levels.* Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 $\log_{10}$ (P) dB.

ISED RSS-132 §5.5 for 5G NR n5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p (watts).

ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

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ISED RSS-133 §6.5.1 for 5G NR n2, n25

Equipment shall comply with the limits in (i) and (ii) below.

i. In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts).

ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS-139 §6.6 for 5G NR n66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.
After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

FCC §27.53(m) (4) (6) for 5G NR n7, n38

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure

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compliance with the rules.

RSS-199 §4.5 for 5G NR n7, n38

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.
Equipment shall comply with the following unwanted emission limits:
for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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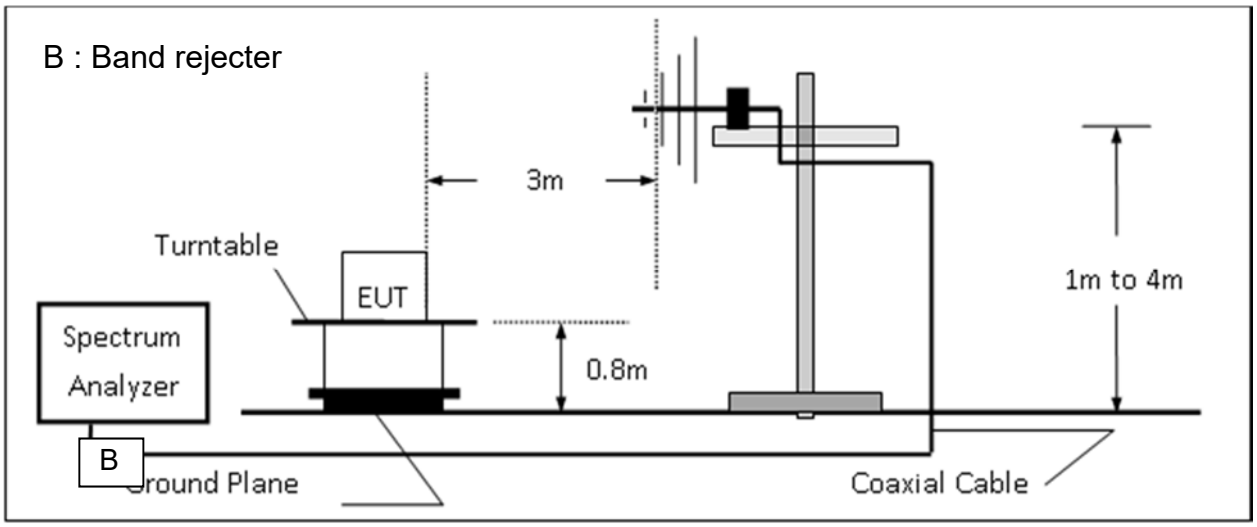
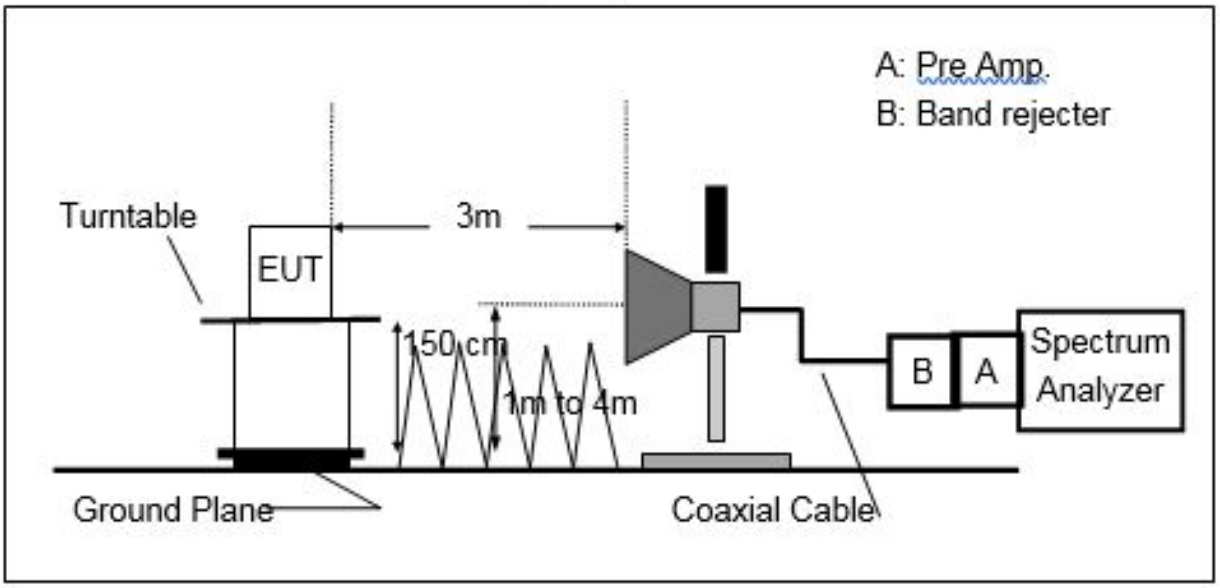
9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3 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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	SCHWAZBECK	BBHA9120D	603	04/29/2020	04/28/2021
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/30/2020	07/29/2021
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
UXM 5G	KEYSIGHT	E7515B	MY60101215	11/04/2020	11/03/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/16/2020	12/15/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/16/2020	12/15/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	WHKX4.0/18G-10SS	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021

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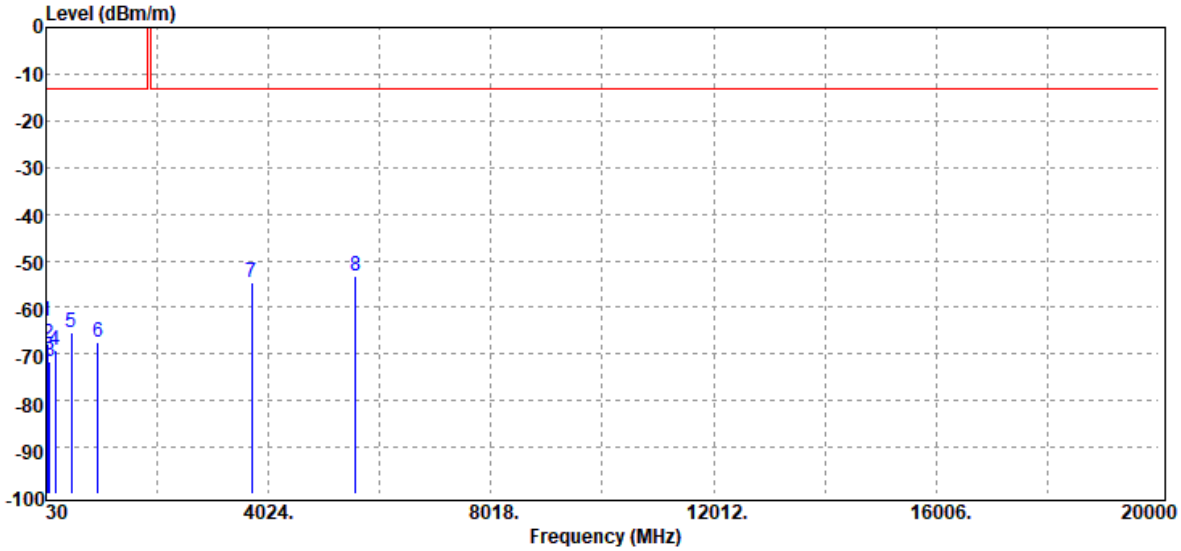
9.5 Measurement Result:

Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.07	-48.75	-13.66	-0.66	-13.00	-50.07
65.89	-67.92	-59.33	-7.79	-0.80	-13.00	-54.92
94.99	-71.76	-70.39	-0.37	-1.00	-13.00	-58.76
191.99	-69.25	-71.36	3.54	-1.43	-13.00	-56.25
479.11	-65.27	-67.05	4.21	-2.43	-13.00	-52.27
968.96	-67.60	-68.55	3.81	-2.86	-13.00	-54.60
3720.00	-54.74	-59.52	12.34	-7.56	-13.00	-41.74
5580.00	-53.16	-56.70	12.96	-9.42	-13.00	-40.16

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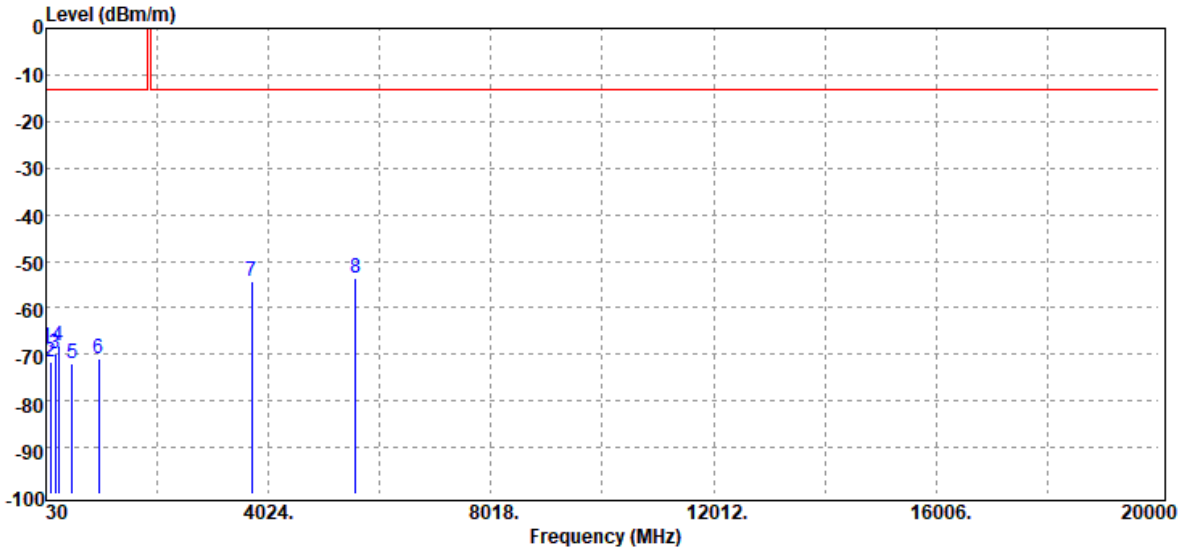
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-68.61	-54.29	-13.66	-0.66	-13.00	-55.61
105.66	-71.59	-69.21	-1.34	-1.04	-13.00	-58.59
190.05	-69.76	-71.58	3.26	-1.44	-13.00	-56.76
250.19	-68.33	-71.08	4.34	-1.59	-13.00	-55.33
500.45	-71.92	-73.76	4.25	-2.41	-13.00	-58.92
978.66	-70.85	-71.66	3.82	-3.01	-13.00	-57.85
3720.00	-54.47	-59.25	12.34	-7.56	-13.00	-41.47
5580.00	-53.56	-57.10	12.96	-9.42	-13.00	-40.56

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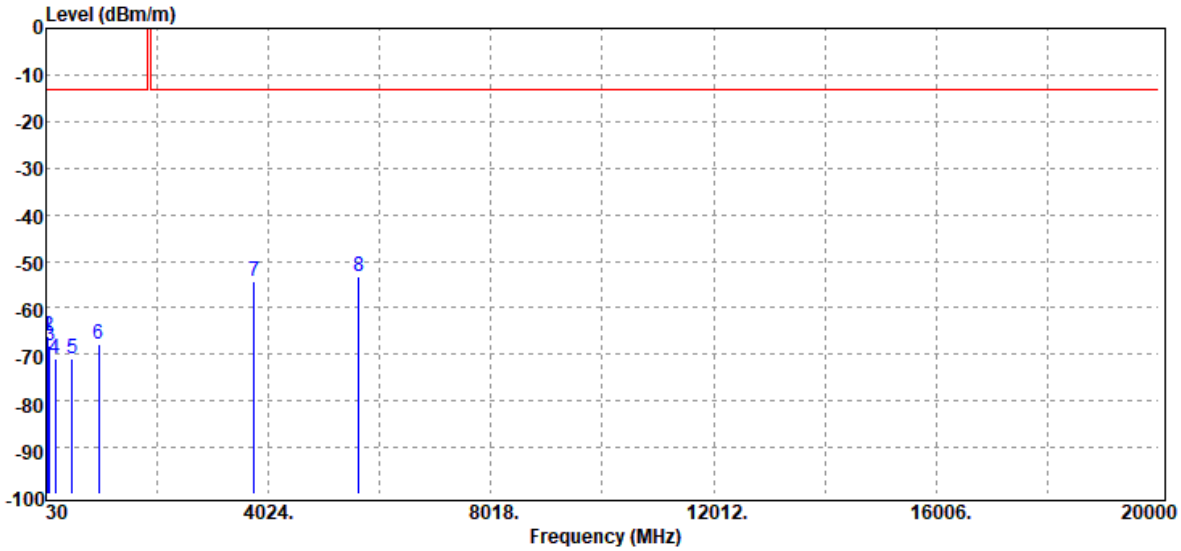
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-66.13	-52.15	-13.29	-0.69	-13.00	-53.13
65.89	-66.02	-57.43	-7.79	-0.80	-13.00	-53.02
94.99	-68.04	-66.67	-0.37	-1.00	-13.00	-55.04
192.96	-70.92	-73.18	3.69	-1.43	-13.00	-57.92
500.45	-70.94	-72.78	4.25	-2.41	-13.00	-57.94
983.51	-67.90	-68.71	3.91	-3.10	-13.00	-54.90
3760.00	-54.29	-59.06	12.40	-7.63	-13.00	-41.29
5640.00	-53.40	-57.17	13.00	-9.23	-13.00	-40.40

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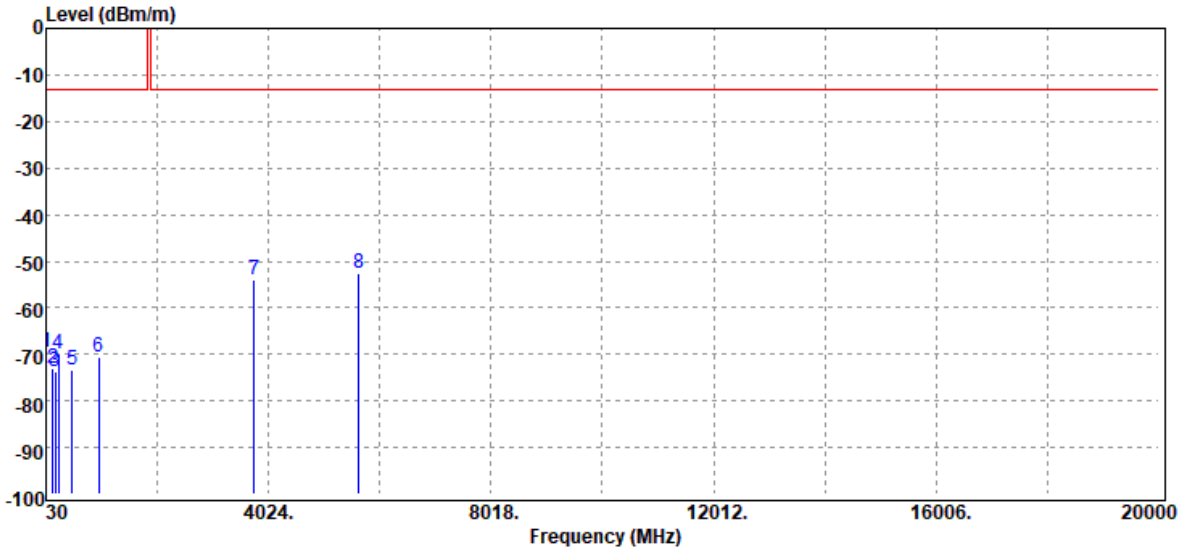
Operation Mode	:n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-69.43	-55.11	-13.66	-0.66	-13.00	-56.43
158.04	-73.11	-70.63	-1.25	-1.23	-13.00	-60.11
193.93	-73.75	-76.15	3.83	-1.43	-13.00	-60.75
250.19	-69.76	-72.51	4.34	-1.59	-13.00	-56.76
500.45	-73.32	-75.16	4.25	-2.41	-13.00	-60.32
977.69	-70.50	-71.33	3.83	-3.00	-13.00	-57.50
3760.00	-53.96	-58.73	12.40	-7.63	-13.00	-40.96
5640.00	-52.75	-56.52	13.00	-9.23	-13.00	-39.75

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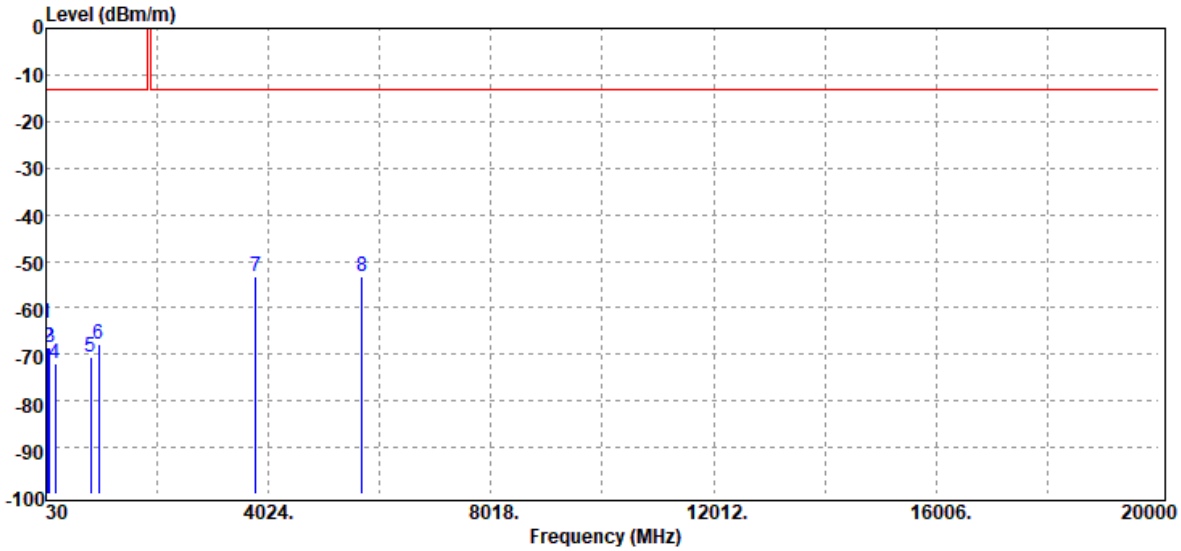
Operation Mode	:n2A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.26	-48.94	-13.66	-0.66	-13.00	-50.26
66.86	-68.61	-60.28	-7.53	-0.80	-13.00	-55.61
94.99	-68.46	-67.09	-0.37	-1.00	-13.00	-55.46
190.05	-72.03	-73.85	3.26	-1.44	-13.00	-59.03
838.01	-70.44	-72.03	4.64	-3.05	-13.00	-57.44
972.84	-67.87	-68.80	3.84	-2.91	-13.00	-54.87
3800.00	-53.41	-58.11	12.40	-7.70	-13.00	-40.41
5700.00	-53.29	-56.99	12.80	-9.10	-13.00	-40.29

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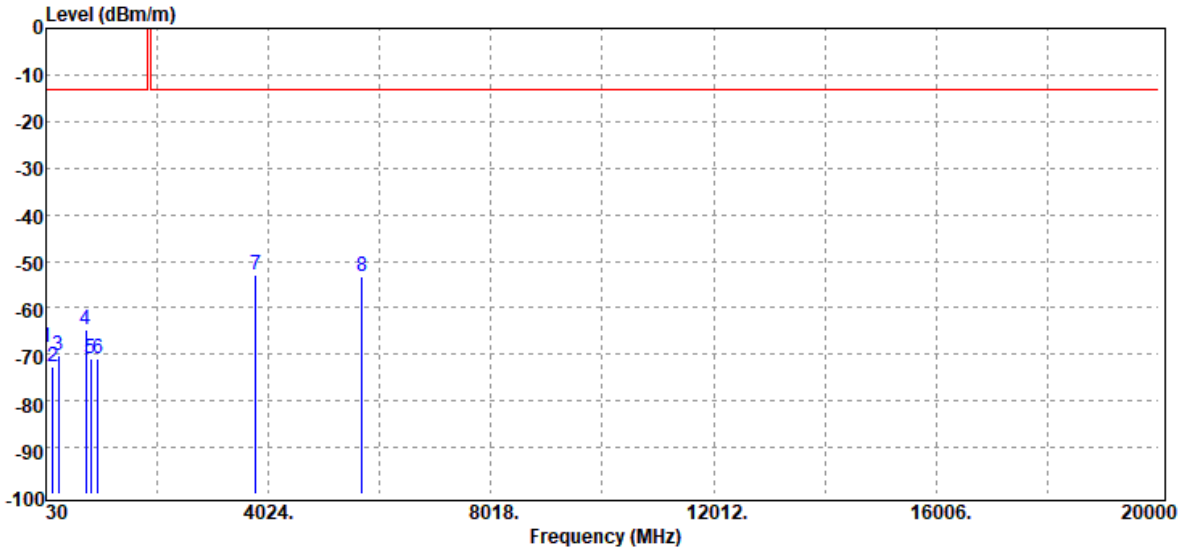
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n2A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.51	-54.14	-13.72	-0.65	-13.00	-55.51
159.01	-72.60	-70.07	-1.29	-1.24	-13.00	-59.60
250.19	-70.28	-73.03	4.34	-1.59	-13.00	-57.28
745.86	-64.66	-65.04	2.83	-2.45	-13.00	-51.66
832.19	-70.90	-72.55	4.58	-2.93	-13.00	-57.90
967.99	-70.99	-71.92	3.80	-2.87	-13.00	-57.99
3800.00	-53.05	-57.75	12.40	-7.70	-13.00	-40.05
5700.00	-53.17	-56.87	12.80	-9.10	-13.00	-40.17

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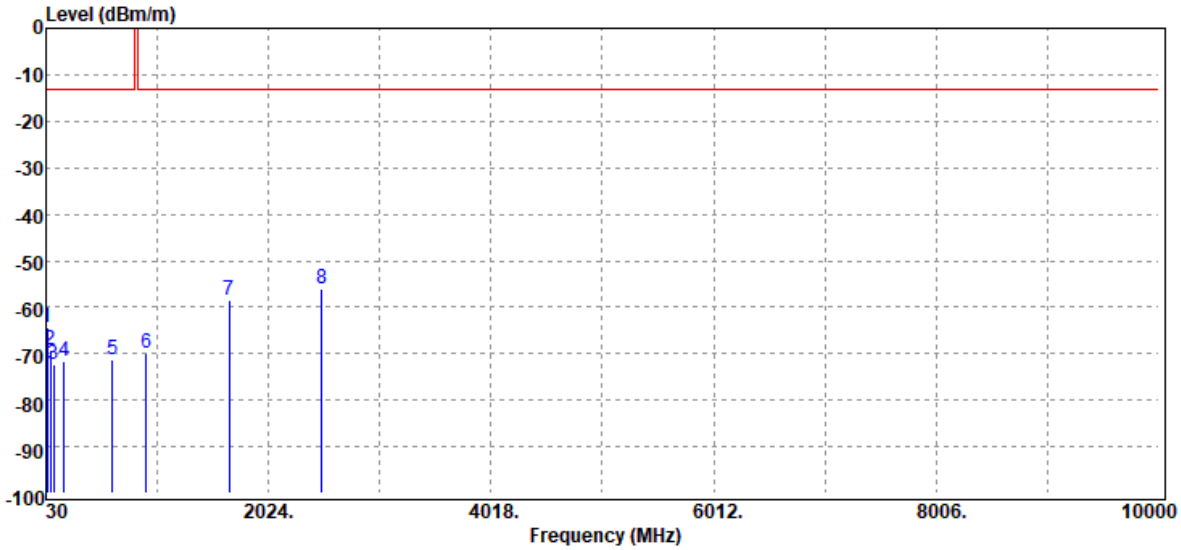
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n5A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:834 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-64.28	-49.96	-13.66	-0.66	-13.00	-51.28
66.86	-69.06	-60.73	-7.53	-0.80	-13.00	-56.06
94.99	-72.27	-70.90	-0.37	-1.00	-13.00	-59.27
191.99	-71.60	-73.71	3.54	-1.43	-13.00	-58.60
624.61	-71.13	-72.28	3.49	-2.34	-13.00	-58.13
929.19	-69.80	-70.29	3.64	-3.15	-13.00	-56.80
1668.00	-58.41	-63.67	9.54	-4.28	-13.00	-45.41
2502.00	-56.01	-61.42	10.60	-5.19	-13.00	-43.01

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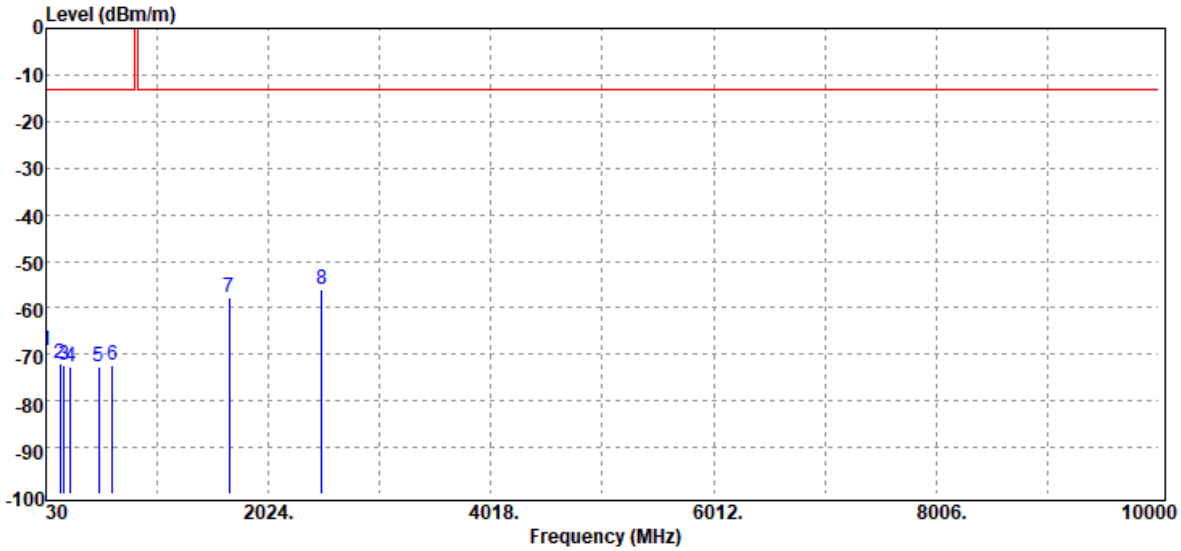
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n5A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:834 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-69.11	-54.74	-13.72	-0.65	-13.00	-56.11
159.01	-72.09	-69.56	-1.29	-1.24	-13.00	-59.09
192.96	-72.21	-74.47	3.69	-1.43	-13.00	-59.21
250.19	-72.70	-75.45	4.34	-1.59	-13.00	-59.70
500.45	-72.77	-74.61	4.25	-2.41	-13.00	-59.77
624.61	-72.47	-73.62	3.49	-2.34	-13.00	-59.47
1668.00	-57.63	-62.89	9.54	-4.28	-13.00	-44.63
2502.00	-56.16	-61.57	10.60	-5.19	-13.00	-43.16

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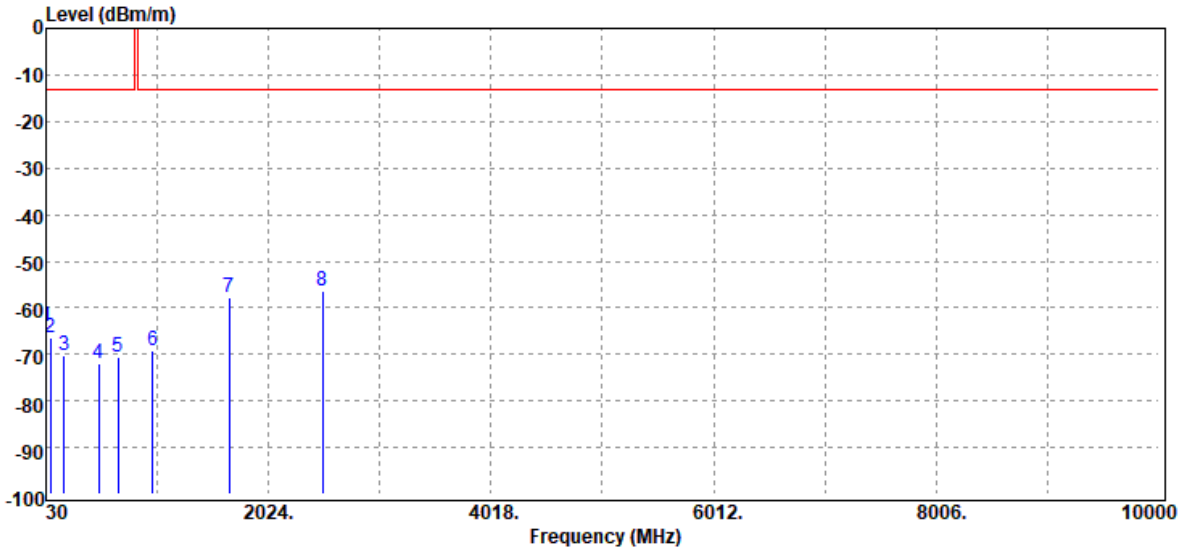
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n5A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-63.95	-49.58	-13.72	-0.65	-13.00	-50.95
66.86	-66.58	-58.25	-7.53	-0.80	-13.00	-53.58
191.99	-70.13	-72.24	3.54	-1.43	-13.00	-57.13
500.45	-71.88	-73.72	4.25	-2.41	-13.00	-58.88
673.11	-70.74	-71.46	3.80	-3.08	-13.00	-57.74
983.51	-69.19	-70.00	3.91	-3.10	-13.00	-56.19
1673.00	-57.88	-63.14	9.55	-4.29	-13.00	-44.88
2509.50	-56.50	-61.92	10.62	-5.20	-13.00	-43.50

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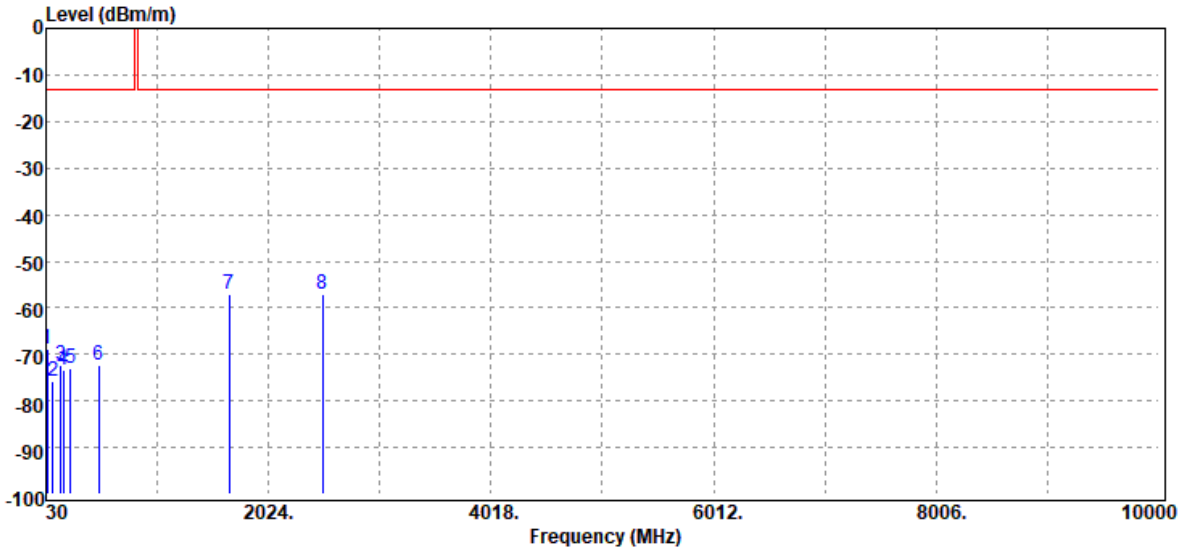
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n5A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-68.77	-54.45	-13.66	-0.66	-13.00	-55.77
90.14	-75.78	-74.39	-0.41	-0.98	-13.00	-62.78
160.95	-72.43	-70.09	-1.09	-1.25	-13.00	-59.43
183.26	-73.19	-73.87	2.07	-1.39	-13.00	-60.19
250.19	-72.94	-75.69	4.34	-1.59	-13.00	-59.94
500.45	-72.28	-74.12	4.25	-2.41	-13.00	-59.28
1673.00	-56.99	-62.25	9.55	-4.29	-13.00	-43.99
2509.50	-57.17	-62.59	10.62	-5.20	-13.00	-44.17

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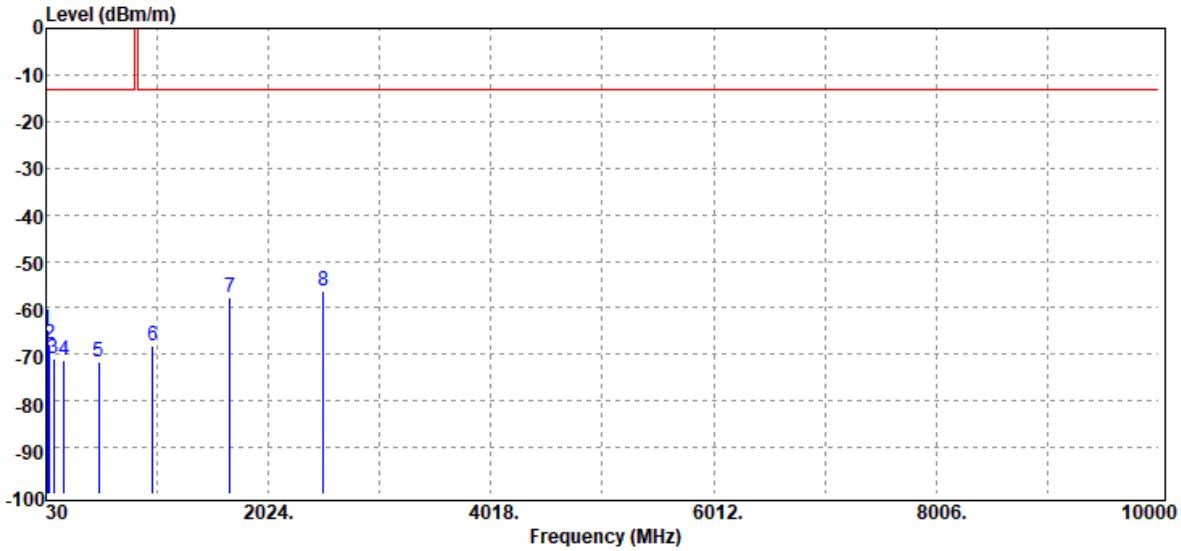
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n5A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:839 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-64.70	-50.38	-13.66	-0.66	-13.00	-51.70
65.89	-67.79	-59.20	-7.79	-0.80	-13.00	-54.79
95.96	-70.85	-69.57	-0.28	-1.00	-13.00	-57.85
192.96	-71.35	-73.61	3.69	-1.43	-13.00	-58.35
500.45	-71.57	-73.41	4.25	-2.41	-13.00	-58.57
987.39	-68.33	-69.12	3.97	-3.18	-13.00	-55.33
1678.00	-57.80	-63.06	9.56	-4.30	-13.00	-44.80
2517.00	-56.41	-61.84	10.63	-5.20	-13.00	-43.41

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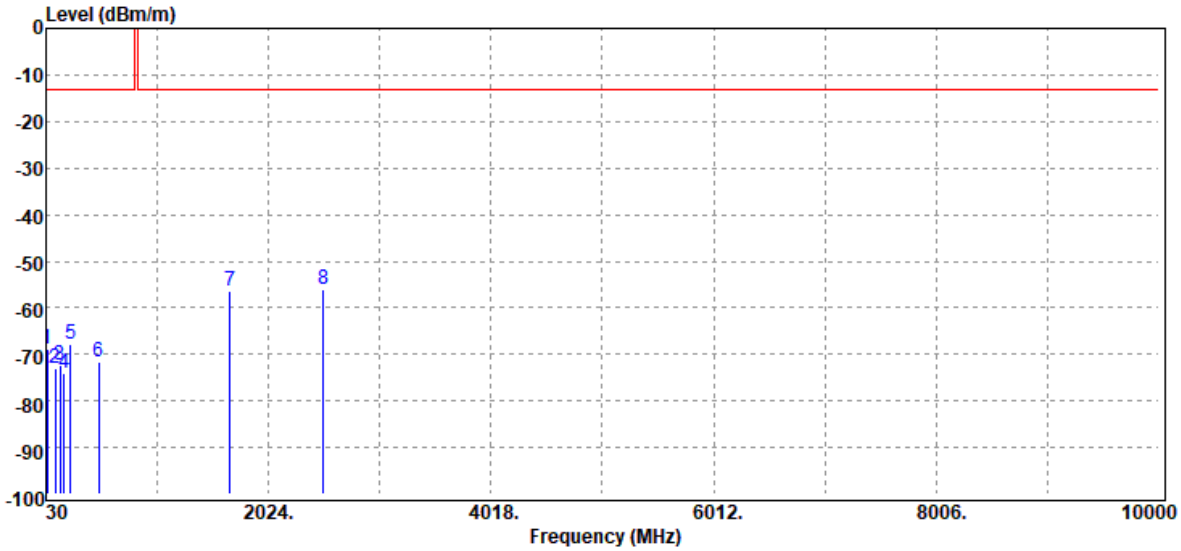
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n5A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:839 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-68.98	-54.66	-13.66	-0.66	-13.00	-55.98
110.51	-72.95	-70.39	-1.50	-1.06	-13.00	-59.95
159.01	-72.37	-69.84	-1.29	-1.24	-13.00	-59.37
192.96	-74.05	-76.31	3.69	-1.43	-13.00	-61.05
250.19	-67.81	-70.56	4.34	-1.59	-13.00	-54.81
500.45	-71.64	-73.48	4.25	-2.41	-13.00	-58.64
1678.00	-56.53	-61.79	9.56	-4.30	-13.00	-43.53
2517.00	-55.99	-61.42	10.63	-5.20	-13.00	-42.99

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n7A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2510 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-64.38	-50.06	-13.66	-0.66	-25.00	-39.38
65.89	-67.98	-59.39	-7.79	-0.80	-25.00	-42.98
193.93	-72.21	-74.61	3.83	-1.43	-25.00	-47.21
500.45	-70.72	-72.56	4.25	-2.41	-25.00	-45.72
833.16	-68.92	-70.56	4.59	-2.95	-25.00	-43.92
987.39	-67.67	-68.46	3.97	-3.18	-25.00	-42.67
5020.00	-53.02	-57.83	12.34	-7.53	-25.00	-28.02
7530.00	-45.87	-47.63	11.06	-9.30	-25.00	-20.87

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n7A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2510 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-69.92	-55.55	-13.72	-0.65	-25.00	-44.92
159.01	-71.43	-68.90	-1.29	-1.24	-25.00	-46.43
180.35	-73.01	-73.10	1.47	-1.38	-25.00	-48.01
250.19	-67.65	-70.40	4.34	-1.59	-25.00	-42.65
500.45	-72.93	-74.77	4.25	-2.41	-25.00	-47.93
839.95	-70.26	-71.84	4.67	-3.09	-25.00	-45.26
5020.00	-52.98	-57.79	12.34	-7.53	-25.00	-27.98
7530.00	-46.28	-48.04	11.06	-9.30	-25.00	-21.28

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n7A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2535 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-62.89	-48.73	-13.48	-0.68	-25.00	-37.89
66.86	-66.77	-58.44	-7.53	-0.80	-25.00	-41.77
94.99	-71.20	-69.83	-0.37	-1.00	-25.00	-46.20
192.96	-69.49	-71.75	3.69	-1.43	-25.00	-44.49
500.45	-71.16	-73.00	4.25	-2.41	-25.00	-46.16
987.39	-66.80	-67.59	3.97	-3.18	-25.00	-41.80
5070.00	-52.09	-56.36	12.10	-7.83	-25.00	-27.09
7605.00	-46.41	-48.01	11.21	-9.61	-25.00	-21.41

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n7A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2535 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-69.29	-54.92	-13.72	-0.65	-25.00	-44.29
159.01	-72.97	-70.44	-1.29	-1.24	-25.00	-47.97
250.19	-69.13	-71.88	4.34	-1.59	-25.00	-44.13
500.45	-72.15	-73.99	4.25	-2.41	-25.00	-47.15
915.61	-71.49	-72.05	3.79	-3.23	-25.00	-46.49
968.96	-70.73	-71.68	3.81	-2.86	-25.00	-45.73
5070.00	-52.07	-56.34	12.10	-7.83	-25.00	-27.07
7605.00	-47.06	-48.66	11.21	-9.61	-25.00	-22.06

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n7A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2560 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-65.09	-50.77	-13.66	-0.66	-25.00	-40.09
62.01	-70.42	-60.79	-8.87	-0.76	-25.00	-45.42
94.99	-71.73	-70.36	-0.37	-1.00	-25.00	-46.73
192.96	-70.27	-72.53	3.69	-1.43	-25.00	-45.27
828.31	-70.00	-71.58	4.51	-2.93	-25.00	-45.00
985.45	-68.17	-68.98	3.95	-3.14	-25.00	-43.17
5120.00	-53.28	-57.40	12.10	-7.98	-25.00	-28.28
7680.00	-45.73	-47.27	11.42	-9.88	-25.00	-20.73

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n7A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2560 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.05	-53.68	-13.72	-0.65	-25.00	-43.05
159.01	-73.35	-70.82	-1.29	-1.24	-25.00	-48.35
190.05	-72.63	-74.45	3.26	-1.44	-25.00	-47.63
250.19	-69.41	-72.16	4.34	-1.59	-25.00	-44.41
500.45	-71.87	-73.71	4.25	-2.41	-25.00	-46.87
846.74	-70.97	-73.00	4.70	-2.67	-25.00	-45.97
5120.00	-52.85	-56.97	12.10	-7.98	-25.00	-27.85
7680.00	-45.74	-47.28	11.42	-9.88	-25.00	-20.74

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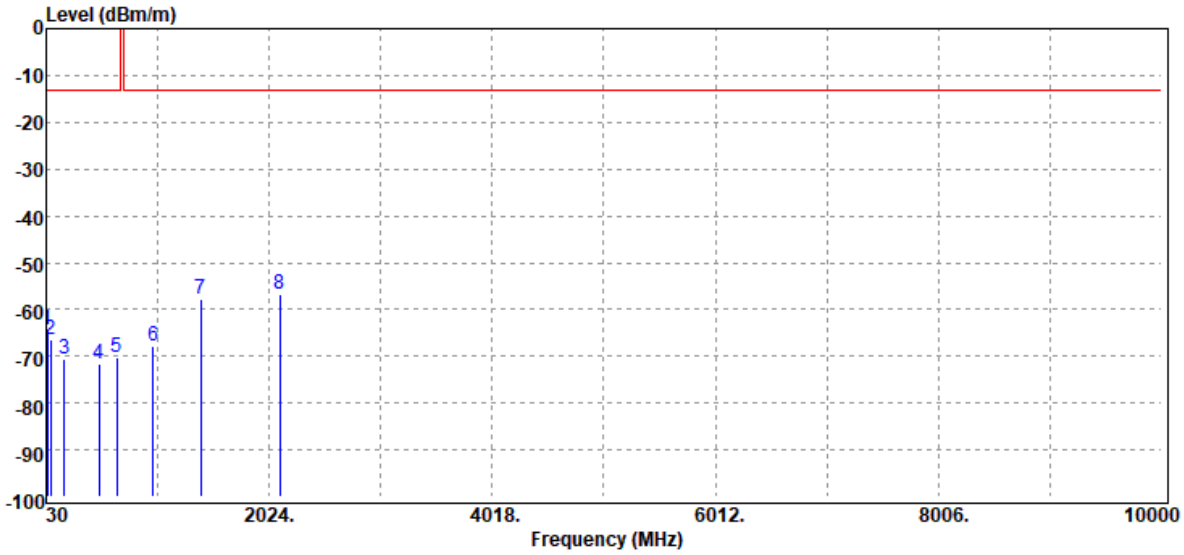
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n12A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:706.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-64.29	-49.97	-13.66	-0.66	-13.00	-51.29
66.86	-66.37	-58.04	-7.53	-0.80	-13.00	-53.37
191.99	-70.53	-72.64	3.54	-1.43	-13.00	-57.53
500.45	-71.52	-73.36	4.25	-2.41	-13.00	-58.52
660.50	-70.35	-71.62	3.68	-2.41	-13.00	-57.35
988.36	-67.89	-68.67	3.98	-3.20	-13.00	-54.89
1413.00	-57.76	-61.61	7.71	-3.86	-13.00	-44.76
2119.50	-56.84	-61.71	9.66	-4.79	-13.00	-43.84

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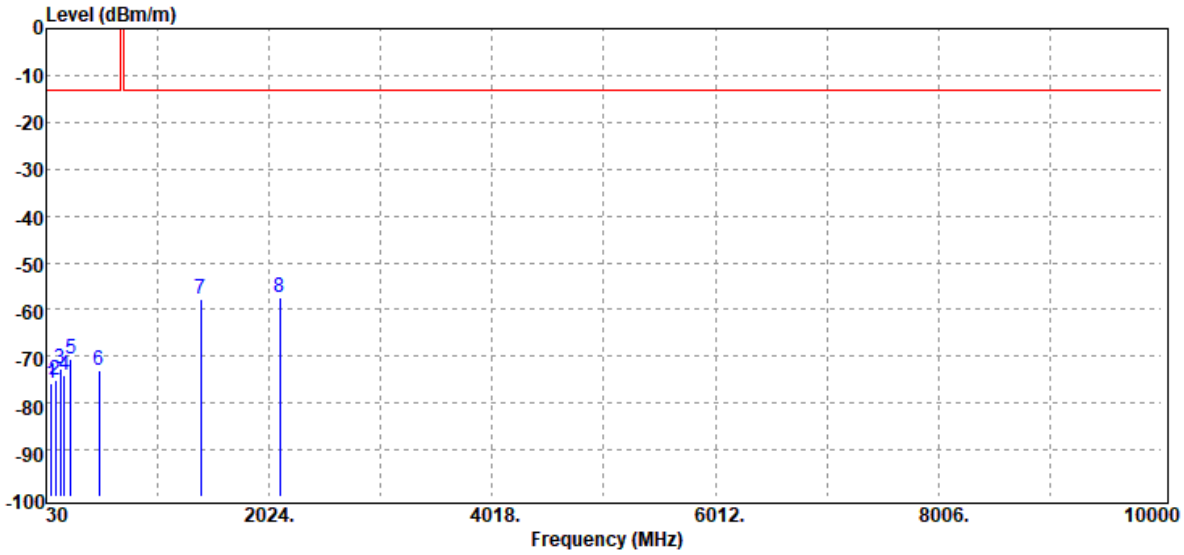
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n12A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:706.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-75.86	-69.58	-5.42	-0.86	-13.00	-62.86
112.45	-74.99	-72.27	-1.65	-1.07	-13.00	-61.99
159.01	-72.71	-70.18	-1.29	-1.24	-13.00	-59.71
191.99	-74.11	-76.22	3.54	-1.43	-13.00	-61.11
250.19	-70.74	-73.49	4.34	-1.59	-13.00	-57.74
500.45	-73.17	-75.01	4.25	-2.41	-13.00	-60.17
1413.00	-57.82	-61.67	7.71	-3.86	-13.00	-44.82
2119.50	-57.39	-62.26	9.66	-4.79	-13.00	-44.39

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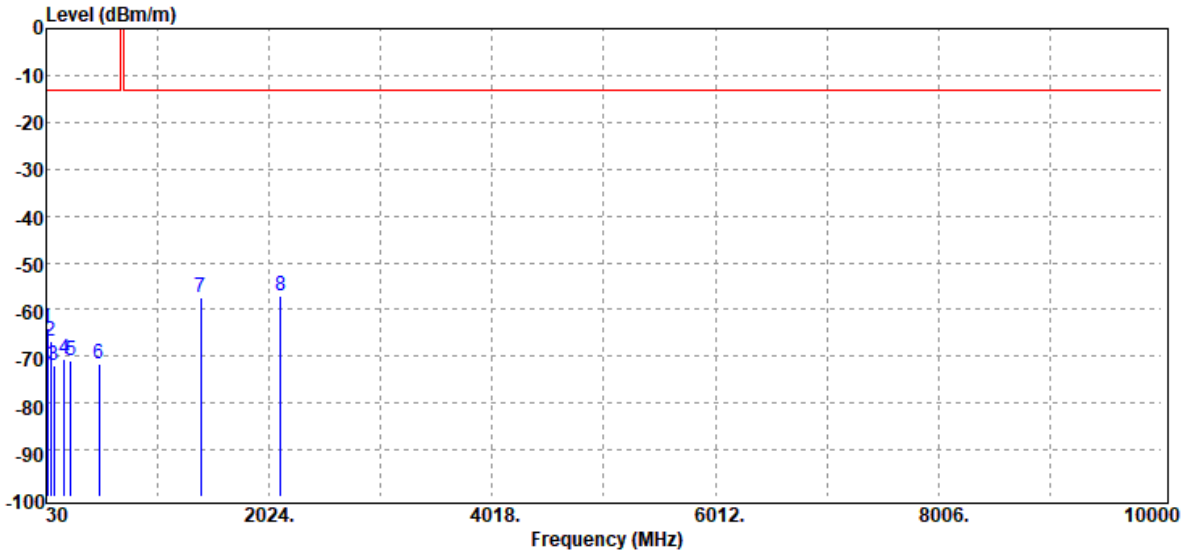
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n12A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:707.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-64.11	-49.95	-13.48	-0.68	-13.00	-51.11
66.86	-66.64	-58.31	-7.53	-0.80	-13.00	-53.64
95.96	-72.04	-70.76	-0.28	-1.00	-13.00	-59.04
191.99	-70.44	-72.55	3.54	-1.43	-13.00	-57.44
250.19	-70.91	-73.66	4.34	-1.59	-13.00	-57.91
500.45	-71.66	-73.50	4.25	-2.41	-13.00	-58.66
1415.00	-57.49	-61.35	7.72	-3.86	-13.00	-44.49
2122.50	-56.99	-61.82	9.63	-4.80	-13.00	-43.99

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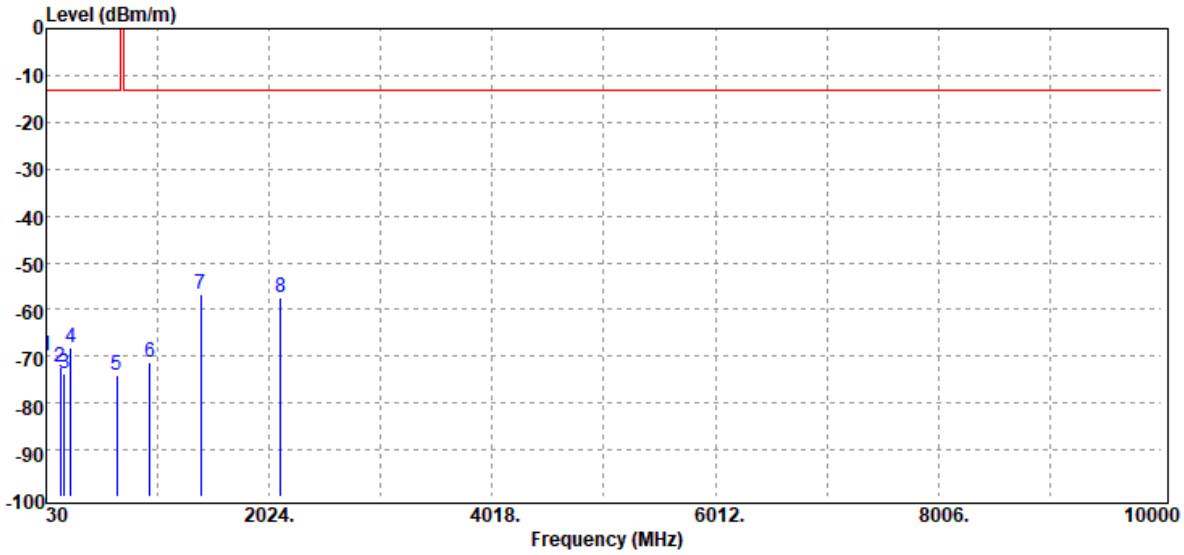
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n12A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:707.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-69.74	-55.12	-14.01	-0.61	-13.00	-56.74
159.01	-72.45	-69.92	-1.29	-1.24	-13.00	-59.45
192.96	-73.76	-76.02	3.69	-1.43	-13.00	-60.76
250.19	-68.28	-71.03	4.34	-1.59	-13.00	-55.28
659.53	-73.93	-75.21	3.66	-2.38	-13.00	-60.93
958.29	-71.14	-71.94	3.74	-2.94	-13.00	-58.14
1415.00	-56.91	-60.77	7.72	-3.86	-13.00	-43.91
2122.50	-57.37	-62.20	9.63	-4.80	-13.00	-44.37

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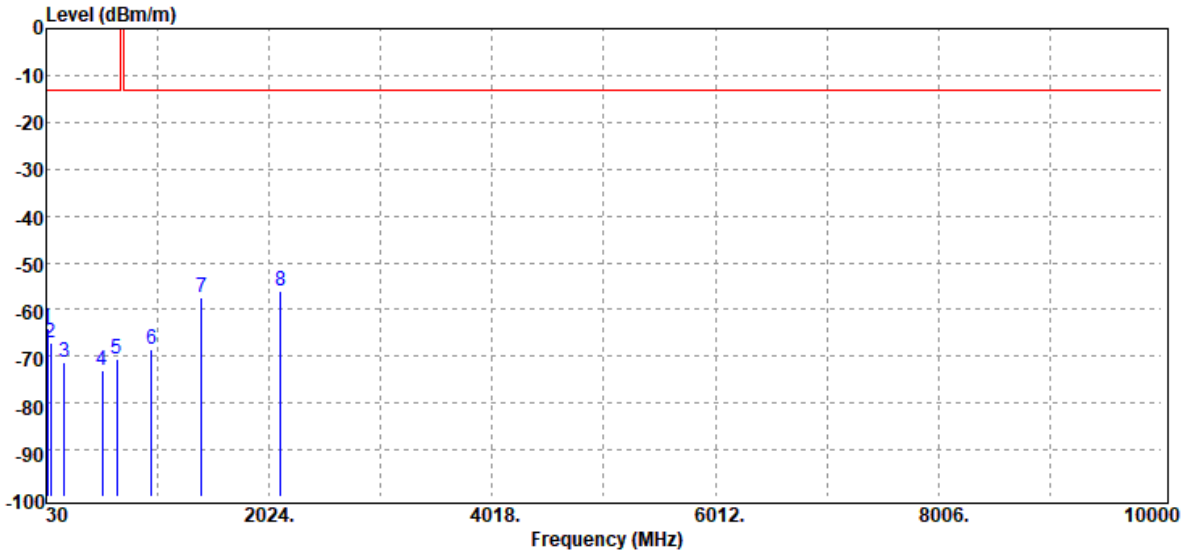
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n12A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:708.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.94	-49.62	-13.66	-0.66	-13.00	-50.94
66.86	-67.04	-58.71	-7.53	-0.80	-13.00	-54.04
192.96	-71.26	-73.52	3.69	-1.43	-13.00	-58.26
534.40	-72.86	-74.95	4.24	-2.15	-13.00	-59.86
660.50	-70.47	-71.74	3.68	-2.41	-13.00	-57.47
970.90	-68.47	-69.41	3.82	-2.88	-13.00	-55.47
1417.00	-57.56	-61.43	7.74	-3.87	-13.00	-44.56
2125.50	-56.06	-60.85	9.59	-4.80	-13.00	-43.06

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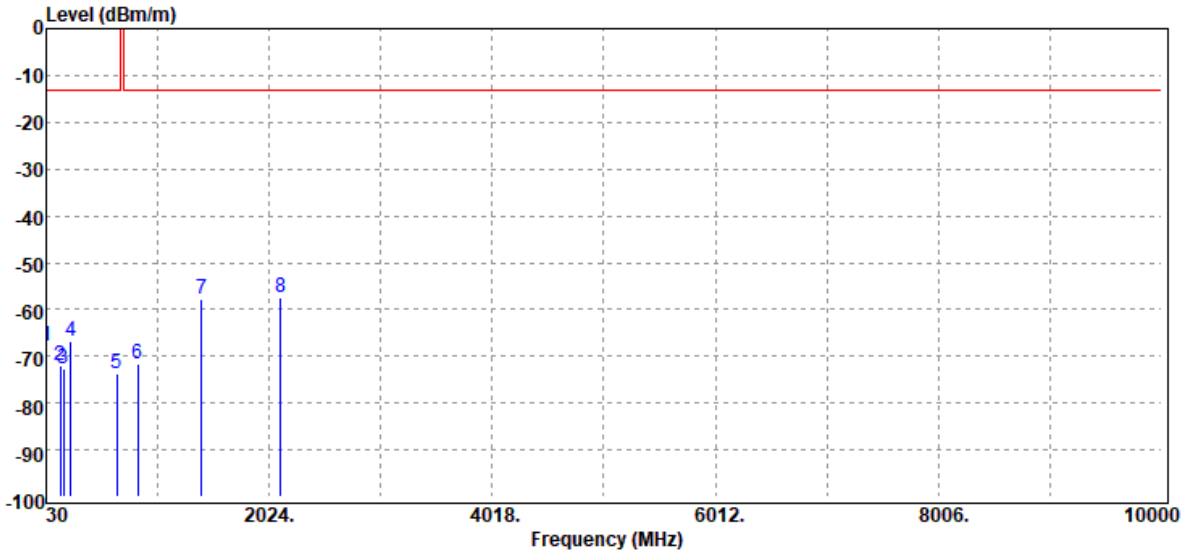
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n12A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:708.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-67.99	-53.62	-13.72	-0.65	-13.00	-54.99
159.01	-71.85	-69.32	-1.29	-1.24	-13.00	-58.85
182.29	-72.52	-73.05	1.92	-1.39	-13.00	-59.52
250.19	-66.76	-69.51	4.34	-1.59	-13.00	-53.76
659.53	-73.53	-74.81	3.66	-2.38	-13.00	-60.53
851.59	-71.62	-73.76	4.65	-2.51	-13.00	-58.62
1417.00	-57.92	-61.79	7.74	-3.87	-13.00	-44.92
2125.50	-57.30	-62.09	9.59	-4.80	-13.00	-44.30

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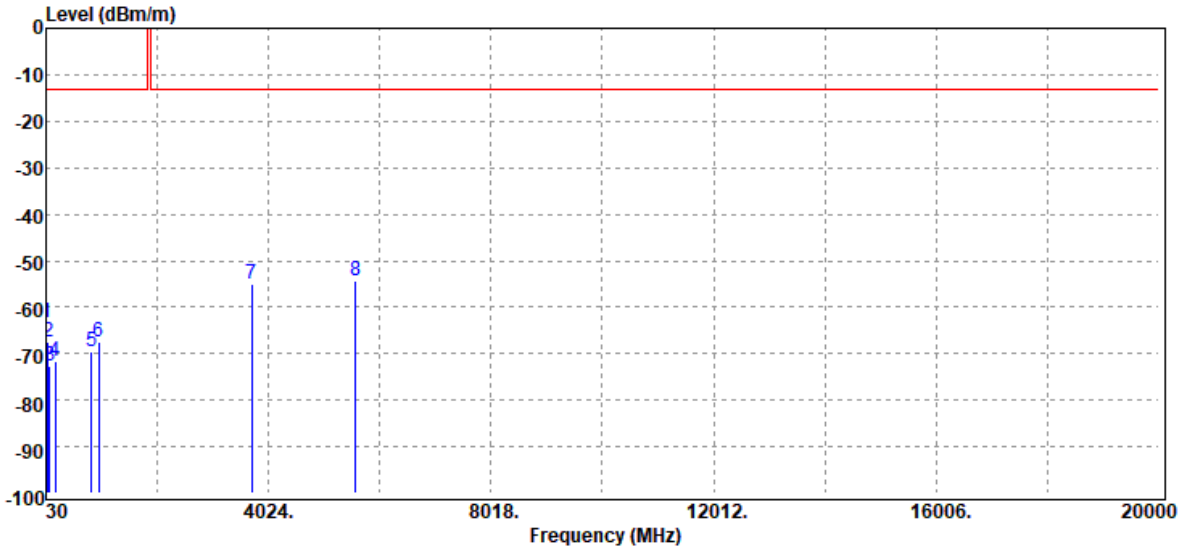
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n25A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.19	-48.87	-13.66	-0.66	-13.00	-50.19
65.89	-67.52	-58.93	-7.79	-0.80	-13.00	-54.52
94.99	-72.73	-71.36	-0.37	-1.00	-13.00	-59.73
192.96	-71.76	-74.02	3.69	-1.43	-13.00	-58.76
841.89	-69.59	-71.31	4.69	-2.97	-13.00	-56.59
982.54	-67.52	-68.31	3.88	-3.09	-13.00	-54.52
3720.00	-55.02	-59.80	12.34	-7.56	-13.00	-42.02
5580.00	-54.32	-57.86	12.96	-9.42	-13.00	-41.32

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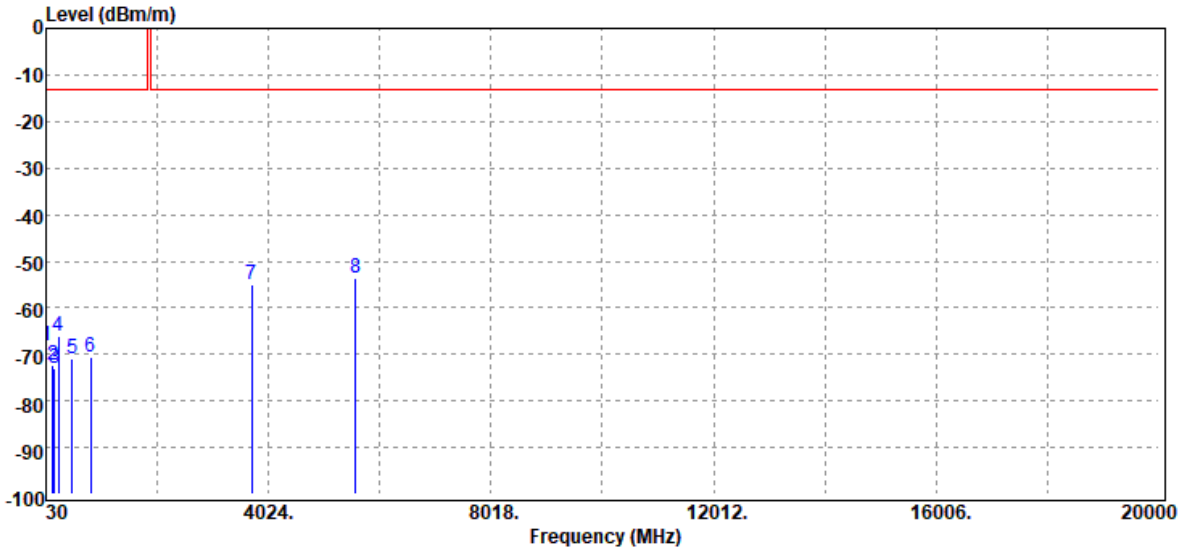
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n25A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.26	-53.89	-13.72	-0.65	-13.00	-55.26
158.04	-72.44	-69.96	-1.25	-1.23	-13.00	-59.44
182.29	-72.89	-73.42	1.92	-1.39	-13.00	-59.89
250.19	-65.94	-68.69	4.34	-1.59	-13.00	-52.94
500.45	-70.98	-72.82	4.25	-2.41	-13.00	-57.98
838.01	-70.61	-72.20	4.64	-3.05	-13.00	-57.61
3720.00	-54.92	-59.70	12.34	-7.56	-13.00	-41.92
5580.00	-53.57	-57.11	12.96	-9.42	-13.00	-40.57

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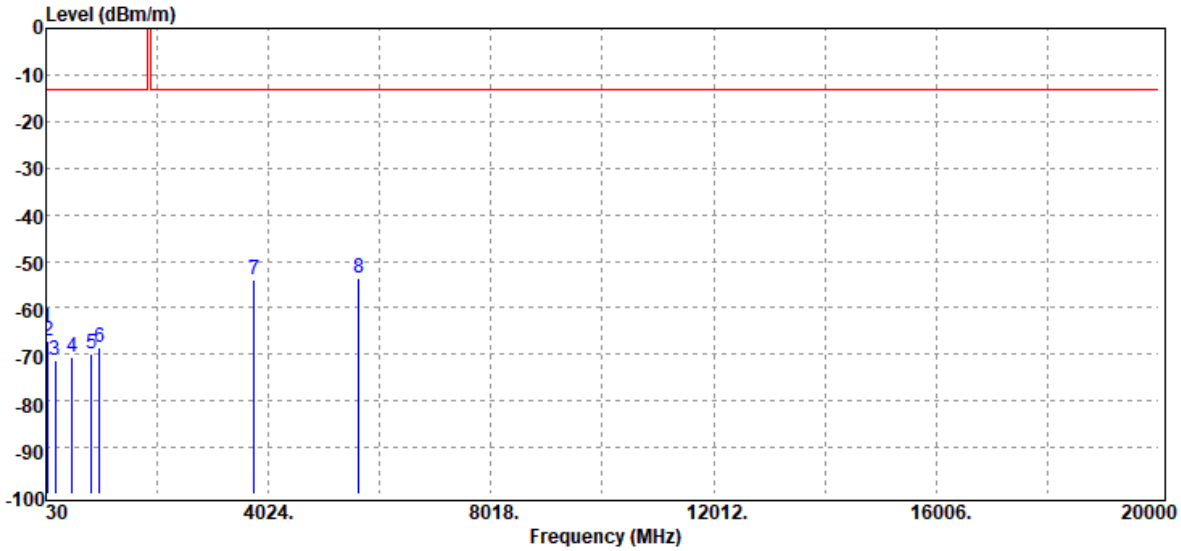
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n25A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1882.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-64.31	-50.15	-13.48	-0.68	-13.00	-51.31
65.89	-67.02	-58.43	-7.79	-0.80	-13.00	-54.02
190.05	-71.34	-73.16	3.26	-1.44	-13.00	-58.34
500.45	-70.48	-72.32	4.25	-2.41	-13.00	-57.48
844.80	-70.05	-71.98	4.72	-2.79	-13.00	-57.05
985.45	-68.48	-69.29	3.95	-3.14	-13.00	-55.48
3765.00	-54.07	-58.83	12.40	-7.64	-13.00	-41.07
5647.50	-53.64	-57.43	13.00	-9.21	-13.00	-40.64

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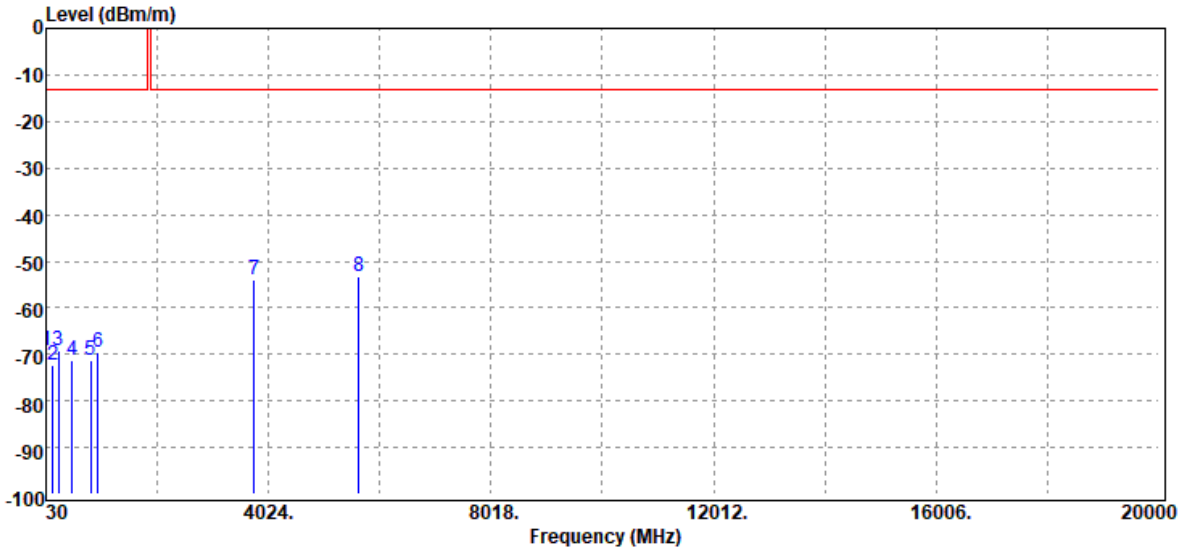
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n25A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1882.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-69.23	-54.91	-13.66	-0.66	-13.00	-56.23
158.04	-72.42	-69.94	-1.25	-1.23	-13.00	-59.42
250.19	-69.27	-72.02	4.34	-1.59	-13.00	-56.27
500.45	-71.12	-72.96	4.25	-2.41	-13.00	-58.12
830.25	-71.18	-72.85	4.56	-2.89	-13.00	-58.18
956.35	-69.57	-70.35	3.77	-2.99	-13.00	-56.57
3765.00	-53.83	-58.59	12.40	-7.64	-13.00	-40.83
5647.50	-53.38	-57.17	13.00	-9.21	-13.00	-40.38

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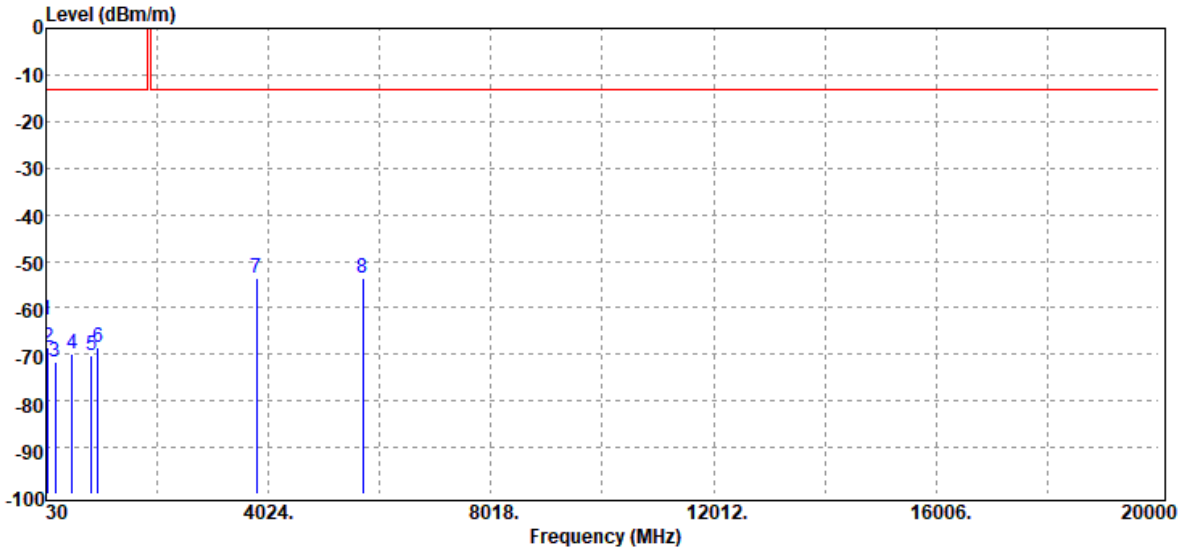
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n25A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1905 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-62.75	-48.38	-13.72	-0.65	-13.00	-49.75
65.89	-68.64	-60.05	-7.79	-0.80	-13.00	-55.64
191.99	-71.61	-73.72	3.54	-1.43	-13.00	-58.61
500.45	-69.88	-71.72	4.25	-2.41	-13.00	-56.88
852.56	-70.18	-72.28	4.64	-2.54	-13.00	-57.18
968.96	-68.37	-69.32	3.81	-2.86	-13.00	-55.37
3810.00	-53.50	-58.21	12.38	-7.67	-13.00	-40.50
5715.00	-53.65	-57.38	12.80	-9.07	-13.00	-40.65

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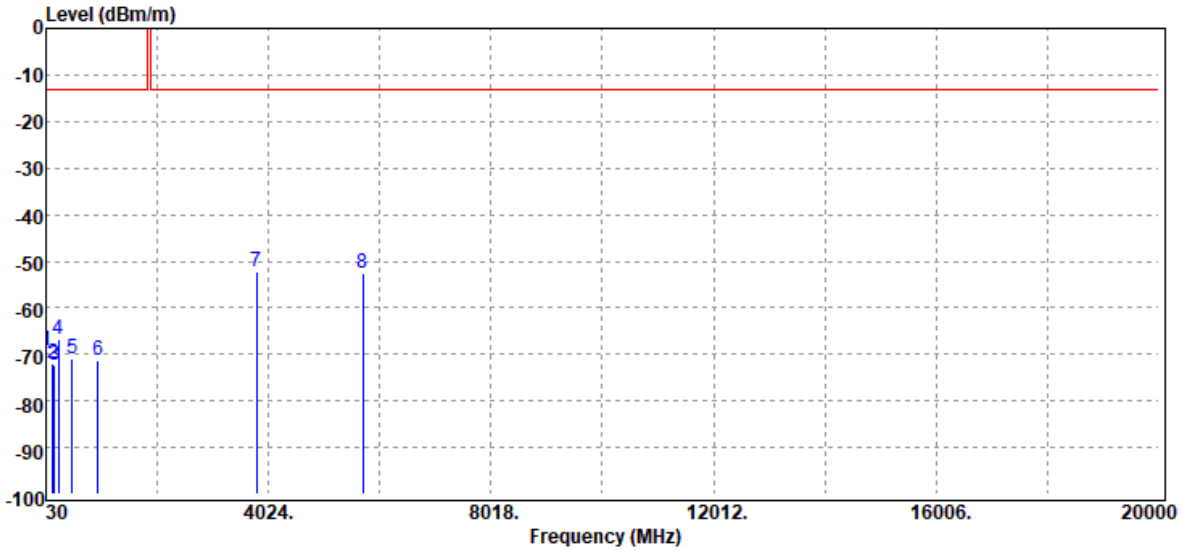
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n25A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1905 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-69.16	-54.79	-13.72	-0.65	-13.00	-56.16
158.04	-71.86	-69.38	-1.25	-1.23	-13.00	-58.86
180.35	-72.20	-72.29	1.47	-1.38	-13.00	-59.20
250.19	-66.94	-69.69	4.34	-1.59	-13.00	-53.94
500.45	-71.10	-72.94	4.25	-2.41	-13.00	-58.10
958.29	-71.22	-72.02	3.74	-2.94	-13.00	-58.22
3810.00	-52.42	-57.13	12.38	-7.67	-13.00	-39.42
5715.00	-52.65	-56.38	12.80	-9.07	-13.00	-39.65

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2590 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.92	-49.60	-13.66	-0.66	-25.00	-38.92
65.89	-67.50	-58.91	-7.79	-0.80	-25.00	-42.50
94.99	-69.72	-68.35	-0.37	-1.00	-25.00	-44.72
192.96	-70.79	-73.05	3.69	-1.43	-25.00	-45.79
847.71	-69.62	-71.71	4.69	-2.60	-25.00	-44.62
988.36	-67.66	-68.44	3.98	-3.20	-25.00	-42.66
5180.00	-52.16	-56.54	12.28	-7.90	-25.00	-27.16
7770.00	-48.13	-49.22	11.50	-10.41	-25.00	-23.13

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2590 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.37	-54.00	-13.72	-0.65	-25.00	-43.37
158.04	-72.27	-69.79	-1.25	-1.23	-25.00	-47.27
183.26	-72.37	-73.05	2.07	-1.39	-25.00	-47.37
250.19	-65.89	-68.64	4.34	-1.59	-25.00	-40.89
500.45	-73.01	-74.85	4.25	-2.41	-25.00	-48.01
720.64	-69.45	-70.31	3.48	-2.62	-25.00	-44.45
5180.00	-51.93	-56.31	12.28	-7.90	-25.00	-26.93
7770.00	-48.54	-49.63	11.50	-10.41	-25.00	-23.54

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2595 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-64.10	-49.78	-13.66	-0.66	-25.00	-39.10
66.86	-68.39	-60.06	-7.53	-0.80	-25.00	-43.39
94.99	-71.03	-69.66	-0.37	-1.00	-25.00	-46.03
194.90	-71.79	-74.24	3.88	-1.43	-25.00	-46.79
500.45	-70.29	-72.13	4.25	-2.41	-25.00	-45.29
716.76	-64.13	-64.88	3.49	-2.74	-25.00	-39.13
5190.00	-52.30	-56.75	12.34	-7.89	-25.00	-27.30
7785.00	-49.16	-50.15	11.50	-10.51	-25.00	-24.16

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2595 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-67.91	-53.54	-13.72	-0.65	-25.00	-42.91
159.01	-71.84	-69.31	-1.29	-1.24	-25.00	-46.84
182.29	-73.78	-74.31	1.92	-1.39	-25.00	-48.78
250.19	-66.31	-69.06	4.34	-1.59	-25.00	-41.31
713.85	-66.92	-67.52	3.45	-2.85	-25.00	-41.92
844.80	-71.37	-73.30	4.72	-2.79	-25.00	-46.37
5190.00	-51.31	-55.76	12.34	-7.89	-25.00	-26.31
7785.00	-49.52	-50.51	11.50	-10.51	-25.00	-24.52

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n38A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2600 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-65.11	-50.79	-13.66	-0.66	-25.00	-40.11
66.86	-66.91	-58.58	-7.53	-0.80	-25.00	-41.91
192.96	-70.59	-72.85	3.69	-1.43	-25.00	-45.59
500.45	-71.12	-72.96	4.25	-2.41	-25.00	-46.12
847.71	-70.09	-72.18	4.69	-2.60	-25.00	-45.09
975.75	-67.63	-68.52	3.85	-2.96	-25.00	-42.63
5200.00	-52.38	-56.90	12.40	-7.88	-25.00	-27.38
7800.00	-49.67	-50.56	11.50	-10.61	-25.00	-24.67

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n38A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2600 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-69.23	-54.91	-13.66	-0.66	-25.00	-44.23
73.65	-73.71	-67.43	-5.42	-0.86	-25.00	-48.71
158.04	-73.53	-71.05	-1.25	-1.23	-25.00	-48.53
190.05	-71.77	-73.59	3.26	-1.44	-25.00	-46.77
716.76	-73.08	-73.83	3.49	-2.74	-25.00	-48.08
839.95	-70.56	-72.14	4.67	-3.09	-25.00	-45.56
5200.00	-52.10	-56.62	12.40	-7.88	-25.00	-27.10
7800.00	-49.25	-50.14	11.50	-10.61	-25.00	-24.25

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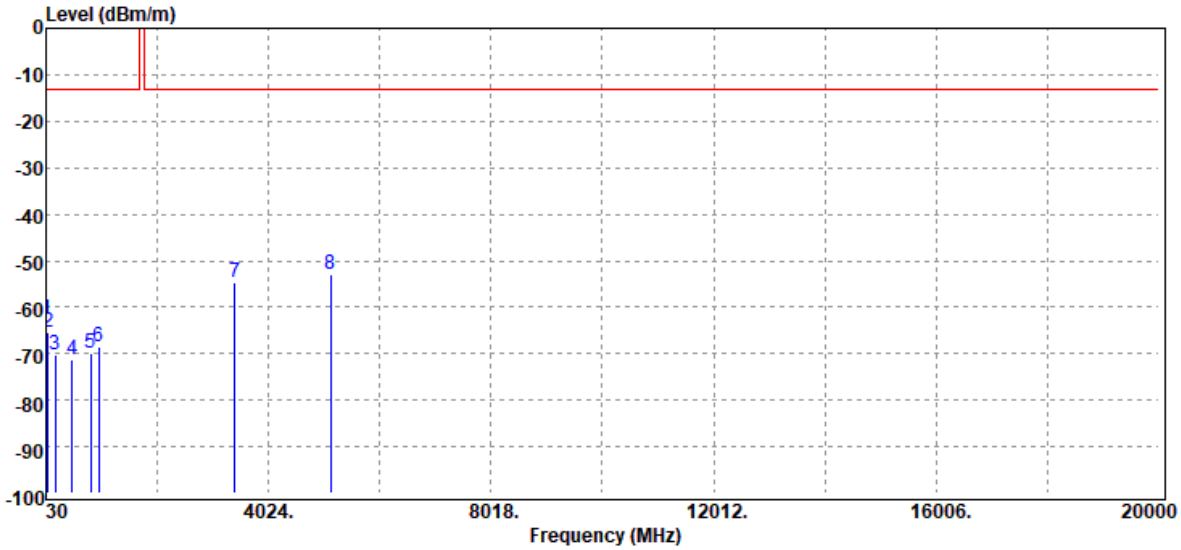
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1712.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-62.71	-48.34	-13.72	-0.65	-13.00	-49.71
66.86	-65.45	-57.12	-7.53	-0.80	-13.00	-52.45
191.99	-70.24	-72.35	3.54	-1.43	-13.00	-57.24
500.45	-71.19	-73.03	4.25	-2.41	-13.00	-58.19
832.19	-69.78	-71.43	4.58	-2.93	-13.00	-56.78
970.90	-68.59	-69.53	3.82	-2.88	-13.00	-55.59
3425.00	-54.69	-61.39	12.55	-5.85	-13.00	-41.69
5137.50	-53.00	-57.15	12.10	-7.95	-13.00	-40.00

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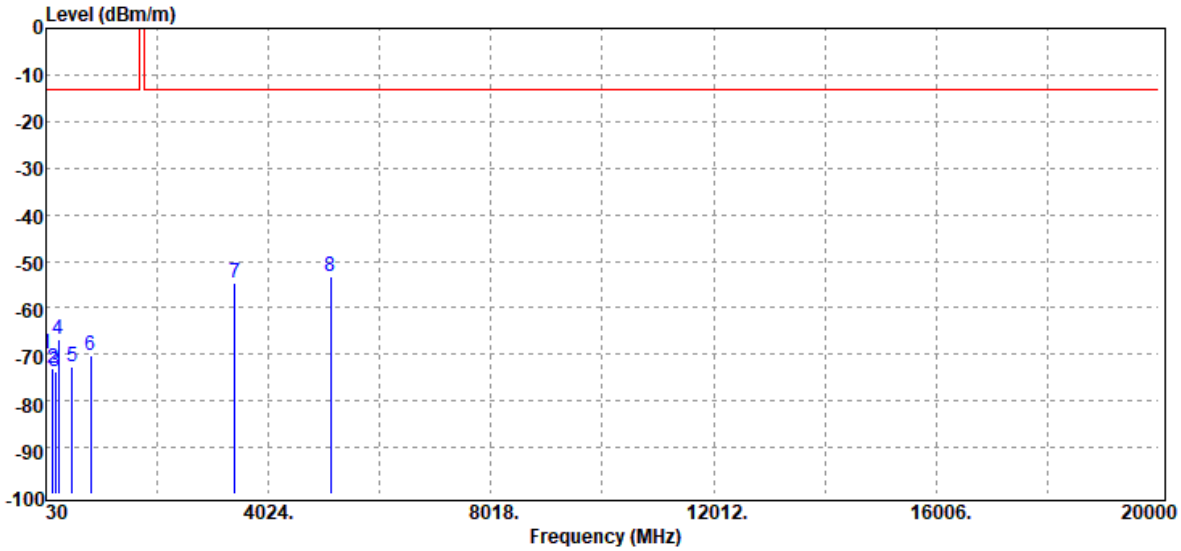
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1712.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-70.01	-55.64	-13.72	-0.65	-13.00	-57.01
158.04	-73.18	-70.70	-1.25	-1.23	-13.00	-60.18
190.05	-73.57	-75.39	3.26	-1.44	-13.00	-60.57
250.19	-66.91	-69.66	4.34	-1.59	-13.00	-53.91
500.45	-72.66	-74.50	4.25	-2.41	-13.00	-59.66
830.25	-70.28	-71.95	4.56	-2.89	-13.00	-57.28
3425.00	-54.51	-61.21	12.55	-5.85	-13.00	-41.51
5137.50	-53.16	-57.31	12.10	-7.95	-13.00	-40.16

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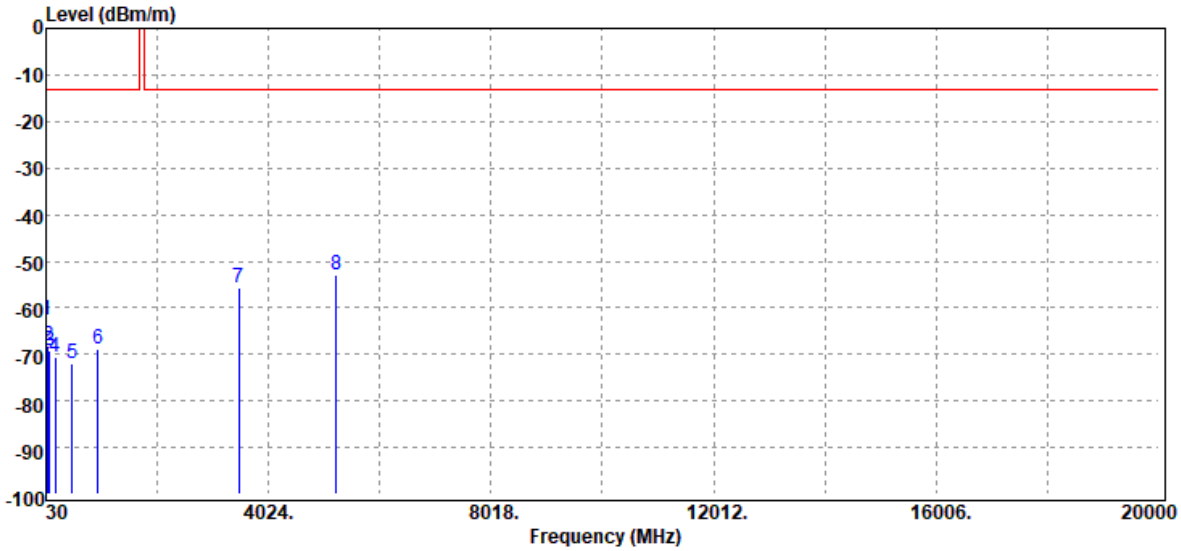
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1745 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-62.64	-48.32	-13.66	-0.66	-13.00	-49.64
65.89	-68.06	-59.47	-7.79	-0.80	-13.00	-55.06
95.96	-69.08	-67.80	-0.28	-1.00	-13.00	-56.08
194.90	-70.75	-73.20	3.88	-1.43	-13.00	-57.75
500.45	-71.95	-73.79	4.25	-2.41	-13.00	-58.95
967.99	-68.75	-69.68	3.80	-2.87	-13.00	-55.75
3490.00	-55.82	-61.98	12.42	-6.26	-13.00	-42.82
5235.00	-52.80	-57.49	12.68	-7.99	-13.00	-39.80

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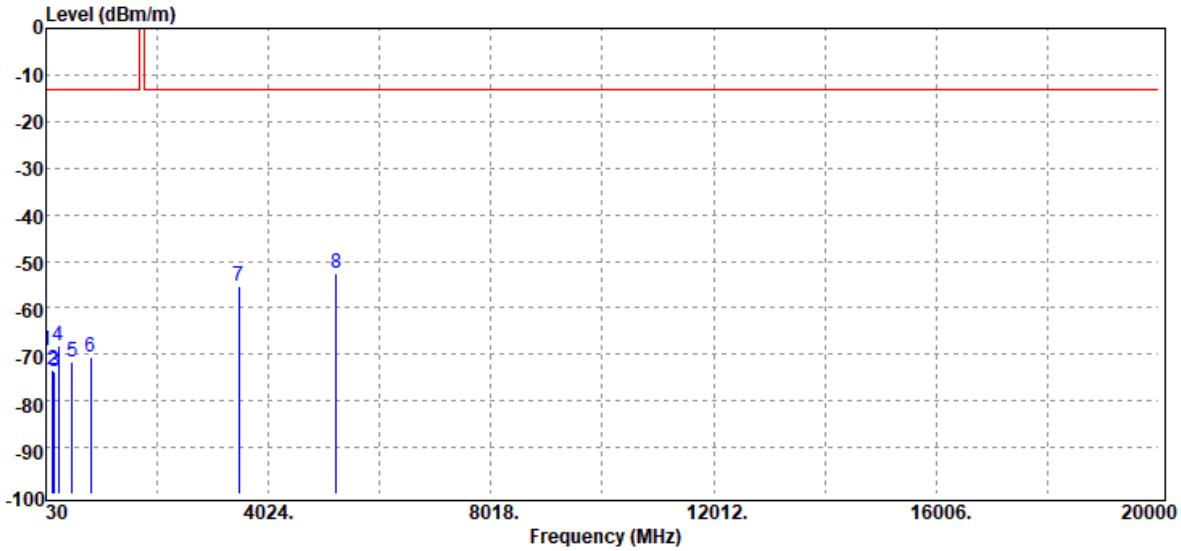
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1745 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-69.22	-54.90	-13.66	-0.66	-13.00	-56.22
159.01	-73.35	-70.82	-1.29	-1.24	-13.00	-60.35
183.26	-73.55	-74.23	2.07	-1.39	-13.00	-60.55
250.19	-68.27	-71.02	4.34	-1.59	-13.00	-55.27
500.45	-71.50	-73.34	4.25	-2.41	-13.00	-58.50
838.01	-70.49	-72.08	4.64	-3.05	-13.00	-57.49
3490.00	-55.48	-61.64	12.42	-6.26	-13.00	-42.48
5235.00	-52.63	-57.32	12.68	-7.99	-13.00	-39.63

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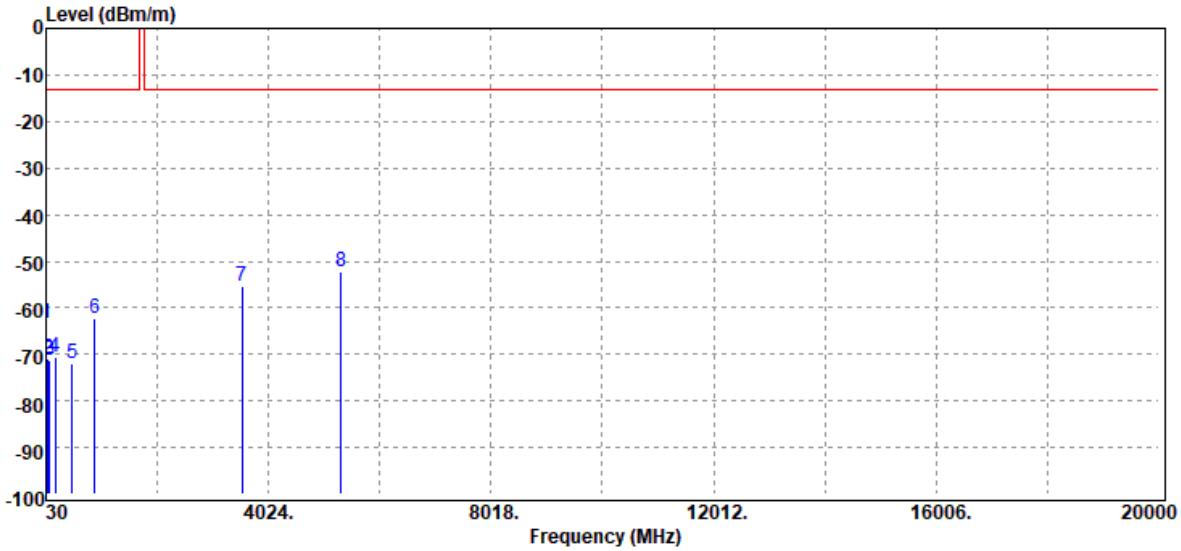
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n66A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1777.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-63.19	-48.82	-13.72	-0.65	-13.00	-50.19
66.86	-70.87	-62.54	-7.53	-0.80	-13.00	-57.87
95.96	-71.43	-70.15	-0.28	-1.00	-13.00	-58.43
191.99	-70.64	-72.75	3.54	-1.43	-13.00	-57.64
500.45	-71.88	-73.72	4.25	-2.41	-13.00	-58.88
904.94	-62.15	-63.01	4.21	-3.35	-13.00	-49.15
3555.00	-55.37	-61.21	12.38	-6.54	-13.00	-42.37
5332.50	-52.09	-56.54	13.00	-8.55	-13.00	-39.09

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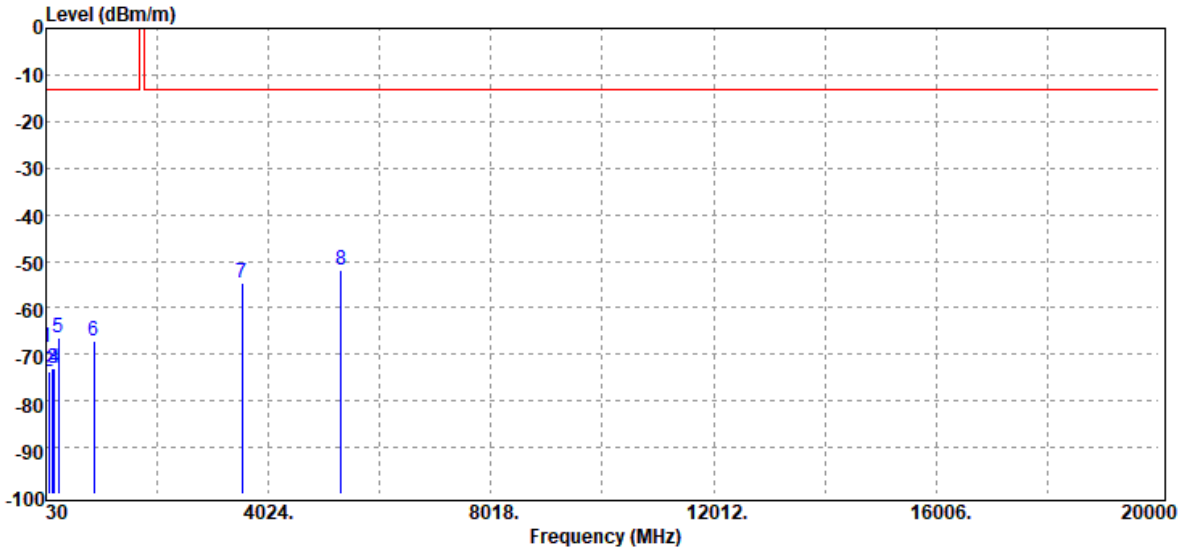
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n66A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1777.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.60	-54.23	-13.72	-0.65	-13.00	-55.60
73.65	-73.72	-67.44	-5.42	-0.86	-13.00	-60.72
158.04	-73.15	-70.67	-1.25	-1.23	-13.00	-60.15
182.29	-72.99	-73.52	1.92	-1.39	-13.00	-59.99
250.19	-66.57	-69.32	4.34	-1.59	-13.00	-53.57
896.21	-67.10	-68.09	4.33	-3.34	-13.00	-54.10
3555.00	-54.55	-60.39	12.38	-6.54	-13.00	-41.55
5332.50	-51.97	-56.42	13.00	-8.55	-13.00	-38.97

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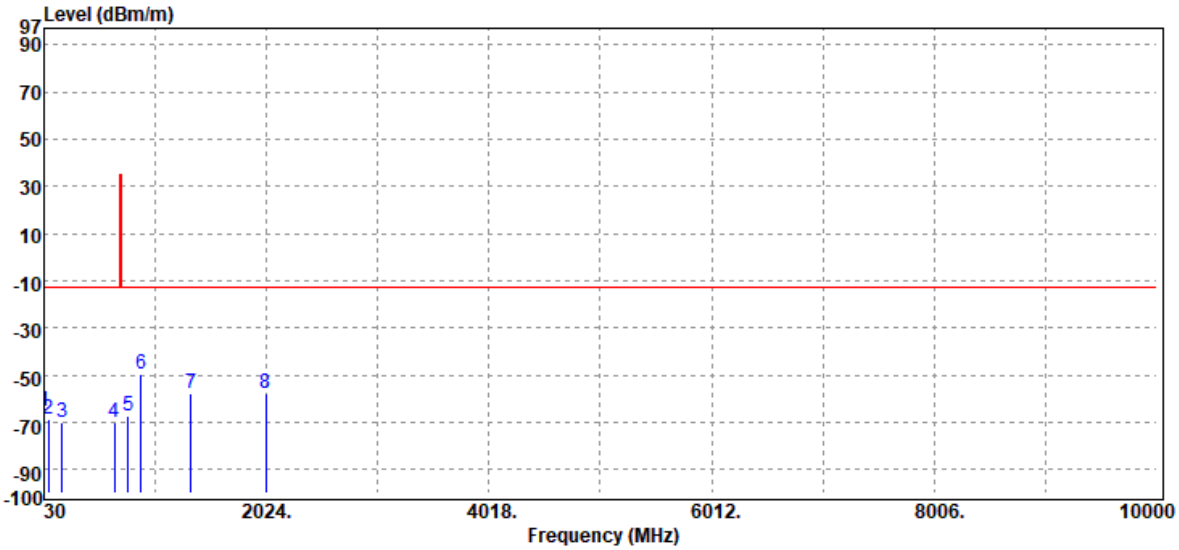
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-65.36	-51.05	-13.67	-0.64	-13.00	-52.36
66.86	-68.64	-60.31	-7.53	-0.80	-13.00	-55.64
192.96	-70.20	-72.46	3.69	-1.43	-13.00	-57.20
660.50	-70.30	-71.57	3.68	-2.41	-13.00	-57.30
784.66	-66.99	-67.45	3.56	-3.10	-13.00	-53.99
896.21	-49.58	-50.57	4.33	-3.34	-13.00	-36.58
1346.00	-58.01	-61.34	7.11	-3.78	-13.00	-45.01
2019.00	-57.88	-63.34	10.16	-4.70	-13.00	-44.88

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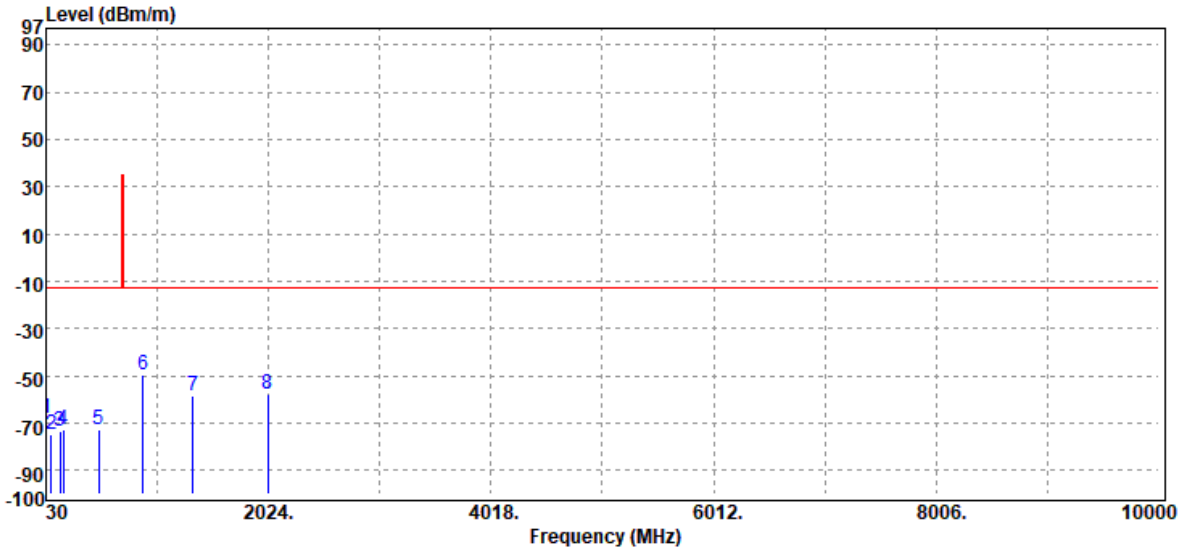
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.12	-53.75	-13.72	-0.65	-13.00	-55.12
73.65	-74.79	-68.51	-5.42	-0.86	-13.00	-61.79
158.04	-73.17	-70.69	-1.25	-1.23	-13.00	-60.17
183.26	-72.76	-73.44	2.07	-1.39	-13.00	-59.76
500.45	-72.44	-74.28	4.25	-2.41	-13.00	-59.44
896.21	-49.77	-50.76	4.33	-3.34	-13.00	-36.77
1346.00	-58.50	-61.83	7.11	-3.78	-13.00	-45.50
2019.00	-57.50	-62.96	10.16	-4.70	-13.00	-44.50

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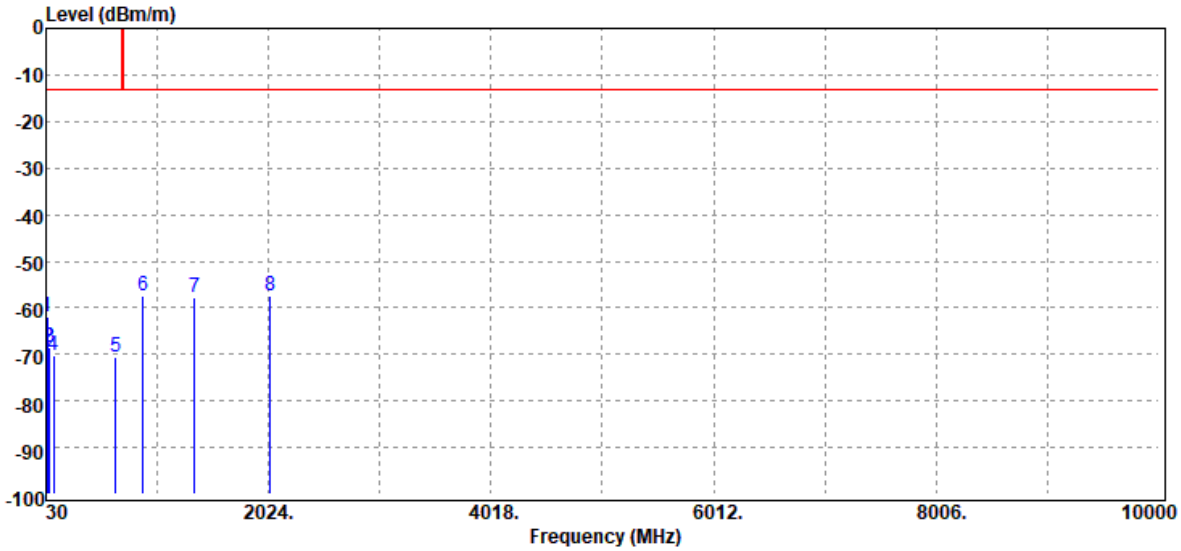
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:680.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-62.05	-47.73	-13.66	-0.66	-13.00	-49.05
56.19	-68.38	-57.25	-10.41	-0.72	-13.00	-55.38
63.95	-68.59	-59.21	-8.60	-0.78	-13.00	-55.59
95.96	-70.12	-68.84	-0.28	-1.00	-13.00	-57.12
657.59	-70.58	-71.83	3.64	-2.39	-13.00	-57.58
896.21	-57.35	-58.34	4.33	-3.34	-13.00	-44.35
1361.00	-57.84	-61.26	7.21	-3.79	-13.00	-44.84
2041.50	-57.35	-62.75	10.12	-4.72	-13.00	-44.35

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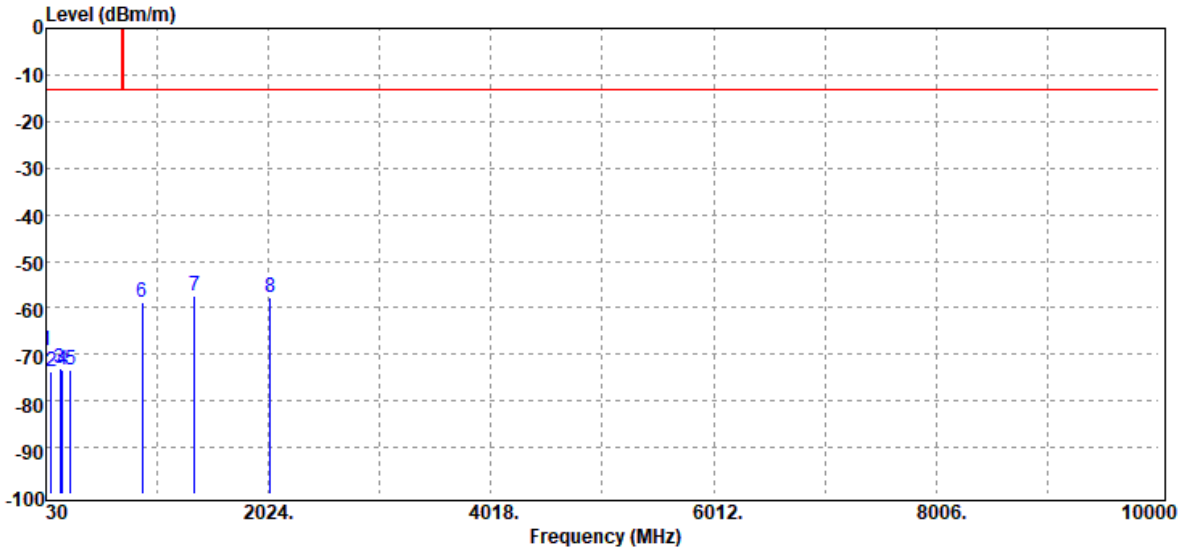
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Mid	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:680.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-69.05	-54.68	-13.72	-0.65	-13.00	-56.05
73.65	-73.61	-67.33	-5.42	-0.86	-13.00	-60.61
158.04	-73.12	-70.64	-1.25	-1.23	-13.00	-60.12
180.35	-73.49	-73.58	1.47	-1.38	-13.00	-60.49
250.19	-73.44	-76.19	4.34	-1.59	-13.00	-60.44
895.24	-58.86	-59.87	4.32	-3.31	-13.00	-45.86
1361.00	-57.32	-60.74	7.21	-3.79	-13.00	-44.32
2041.50	-57.86	-63.26	10.12	-4.72	-13.00	-44.86

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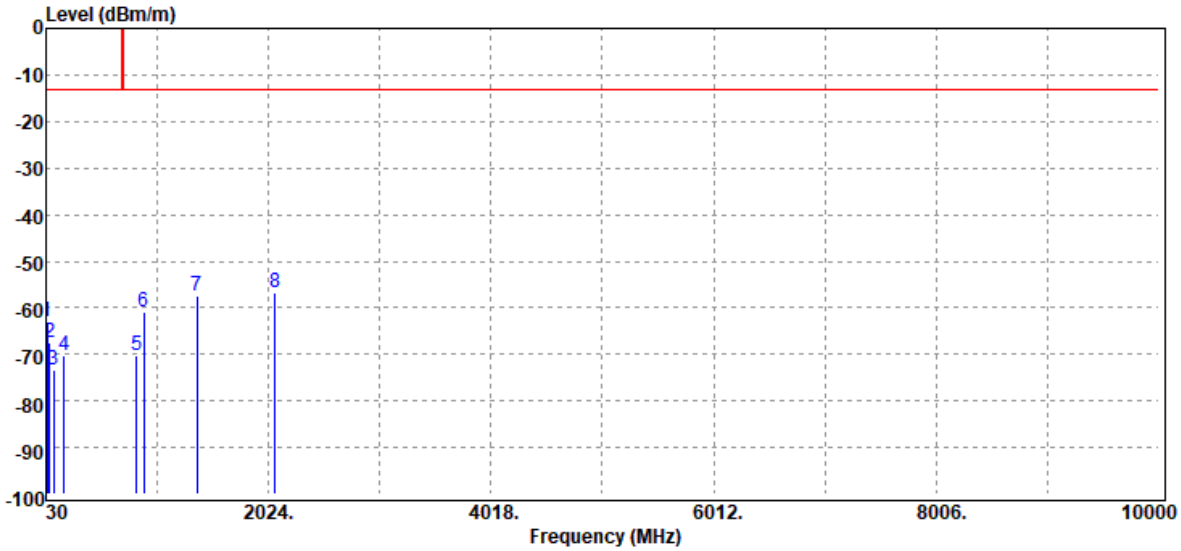
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n71A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:693 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-62.86	-48.54	-13.66	-0.66	-13.00	-49.86
65.89	-67.33	-58.74	-7.79	-0.80	-13.00	-54.33
94.99	-73.30	-71.93	-0.37	-1.00	-13.00	-60.30
192.96	-70.30	-72.56	3.69	-1.43	-13.00	-57.30
844.80	-70.15	-72.08	4.72	-2.79	-13.00	-57.15
904.94	-60.86	-61.72	4.21	-3.35	-13.00	-47.86
1386.00	-57.39	-61.02	7.46	-3.83	-13.00	-44.39
2079.00	-56.74	-61.97	9.98	-4.75	-13.00	-43.74

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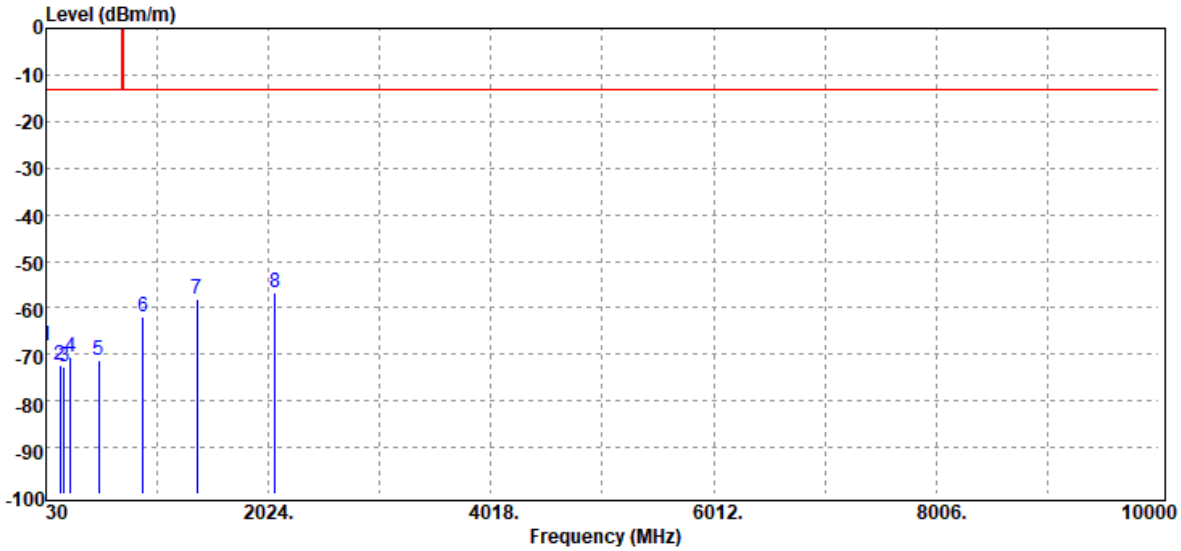
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:n71A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:693 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-68.30	-53.93	-13.72	-0.65	-13.00	-55.30
158.04	-72.32	-69.84	-1.25	-1.23	-13.00	-59.32
191.99	-72.82	-74.93	3.54	-1.43	-13.00	-59.82
250.19	-70.70	-73.45	4.34	-1.59	-13.00	-57.70
500.45	-71.11	-72.95	4.25	-2.41	-13.00	-58.11
896.21	-61.99	-62.98	4.33	-3.34	-13.00	-48.99
1386.00	-58.06	-61.69	7.46	-3.83	-13.00	-45.06
2079.00	-56.67	-61.90	9.98	-4.75	-13.00	-43.67

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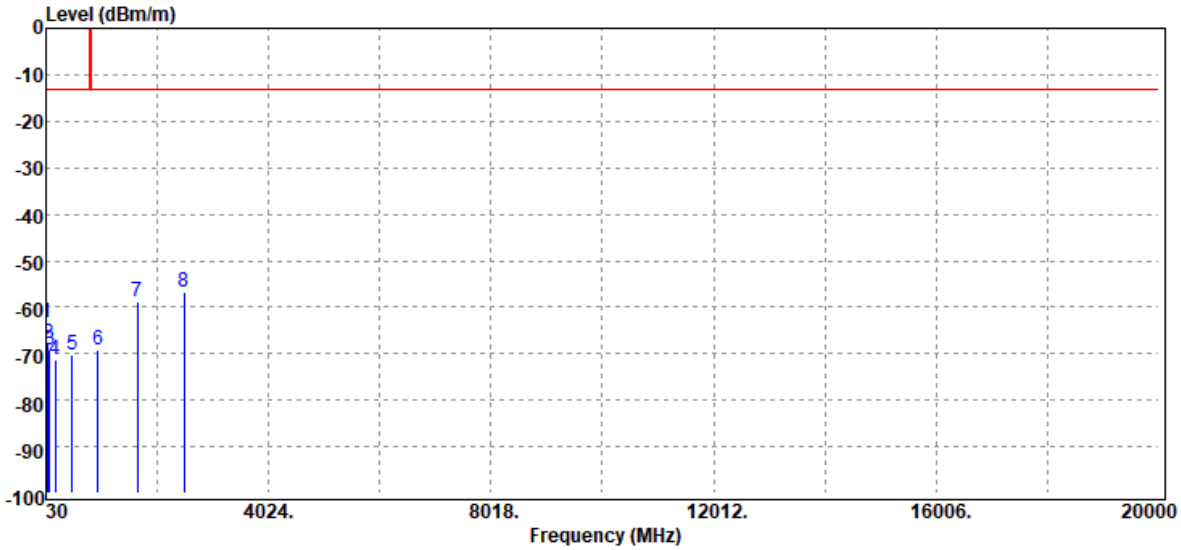
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900_834 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.38	-49.06	-13.66	-0.66	-13.00	-50.38
63.95	-67.82	-58.44	-8.60	-0.78	-13.00	-54.82
95.96	-69.36	-68.08	-0.28	-1.00	-13.00	-56.36
192.96	-71.36	-73.62	3.69	-1.43	-13.00	-58.36
500.45	-70.31	-72.15	4.25	-2.41	-13.00	-57.31
966.05	-69.26	-70.17	3.78	-2.87	-13.00	-56.26
1668.00	-58.69	-63.95	9.54	-4.28	-13.00	-45.69
2502.00	-56.67	-62.08	10.60	-5.19	-13.00	-43.67

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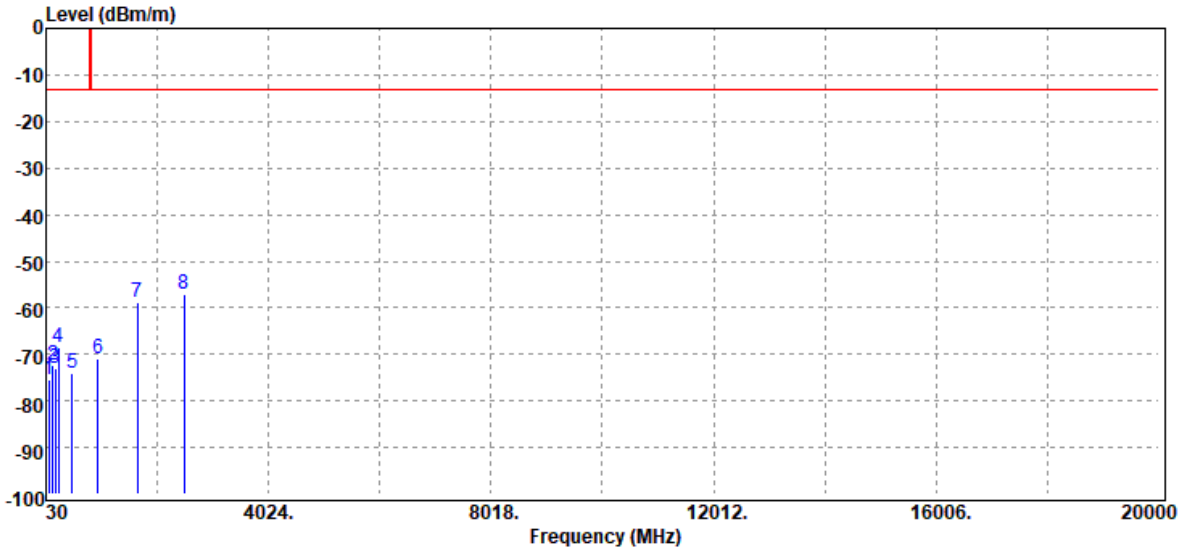
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900_834 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-75.54	-69.26	-5.42	-0.86	-13.00	-62.54
158.04	-72.49	-70.01	-1.25	-1.23	-13.00	-59.49
190.05	-73.01	-74.83	3.26	-1.44	-13.00	-60.01
250.19	-68.43	-71.18	4.34	-1.59	-13.00	-55.43
500.45	-74.08	-75.92	4.25	-2.41	-13.00	-61.08
959.26	-70.77	-71.58	3.73	-2.92	-13.00	-57.77
1668.00	-58.76	-64.02	9.54	-4.28	-13.00	-45.76
2502.00	-57.20	-62.61	10.60	-5.19	-13.00	-44.20

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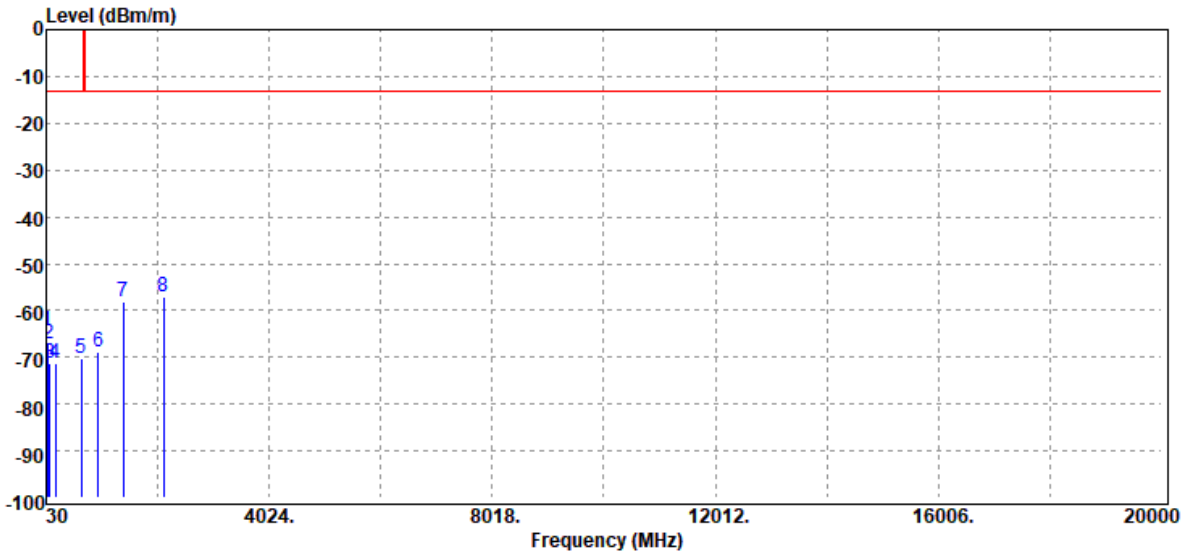
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:2A_n12A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900_708.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-64.36	-49.99	-13.72	-0.65	-13.00	-51.36
63.95	-67.25	-57.87	-8.60	-0.78	-13.00	-54.25
94.99	-71.11	-69.74	-0.37	-1.00	-13.00	-58.11
194.90	-71.38	-73.83	3.88	-1.43	-13.00	-58.38
665.35	-70.34	-71.26	3.73	-2.81	-13.00	-57.34
967.99	-68.89	-69.82	3.80	-2.87	-13.00	-55.89
1417.00	-58.12	-61.99	7.74	-3.87	-13.00	-45.12
2125.50	-57.06	-61.85	9.59	-4.80	-13.00	-44.06

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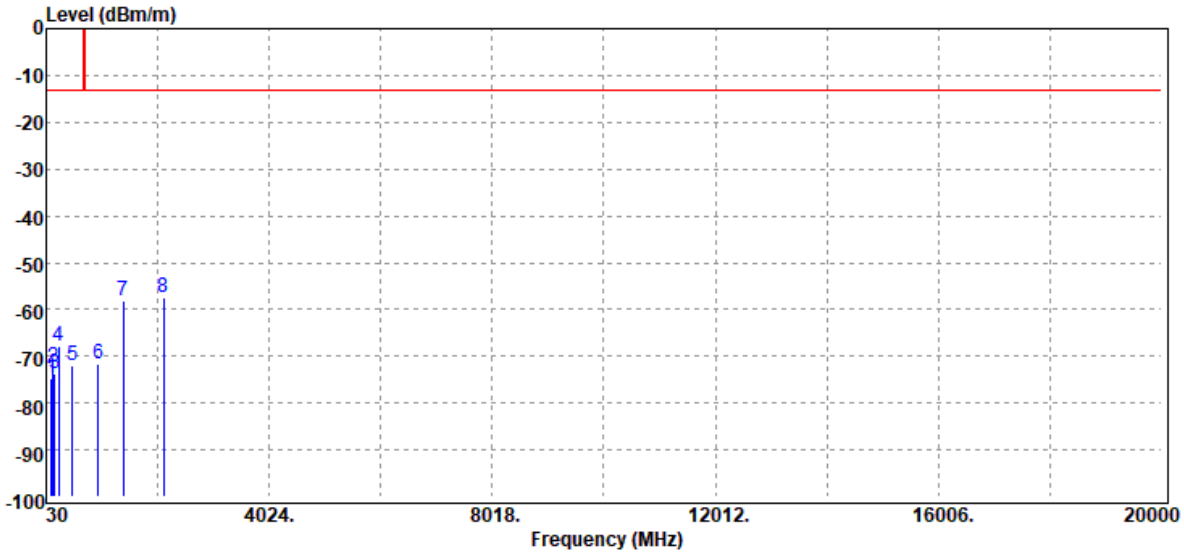
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:2A_n12A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900_708.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.79	-71.76	-1.88	-1.15	-13.00	-61.79
158.04	-72.22	-69.74	-1.25	-1.23	-13.00	-59.22
180.35	-73.67	-73.76	1.47	-1.38	-13.00	-60.67
250.19	-67.93	-70.68	4.34	-1.59	-13.00	-54.93
500.45	-72.08	-73.92	4.25	-2.41	-13.00	-59.08
961.20	-71.78	-72.63	3.74	-2.89	-13.00	-58.78
1417.00	-58.17	-62.04	7.74	-3.87	-13.00	-45.17
2125.50	-57.59	-62.38	9.59	-4.80	-13.00	-44.59

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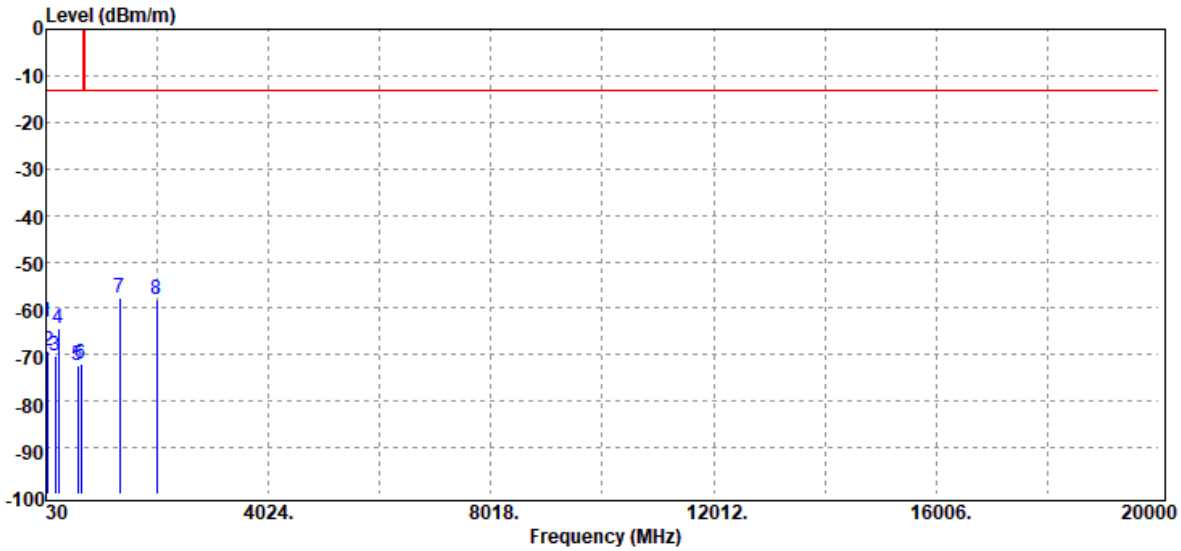
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900_673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-62.89	-48.52	-13.72	-0.65	-13.00	-49.89
63.95	-69.12	-59.74	-8.60	-0.78	-13.00	-56.12
196.84	-70.20	-72.83	4.06	-1.43	-13.00	-57.20
250.19	-64.20	-66.95	4.34	-1.59	-13.00	-51.20
595.51	-72.17	-73.28	3.76	-2.65	-13.00	-59.17
658.56	-72.06	-73.33	3.65	-2.38	-13.00	-59.06
1346.00	-57.68	-61.01	7.11	-3.78	-13.00	-44.68
2019.00	-58.07	-63.53	10.16	-4.70	-13.00	-45.07

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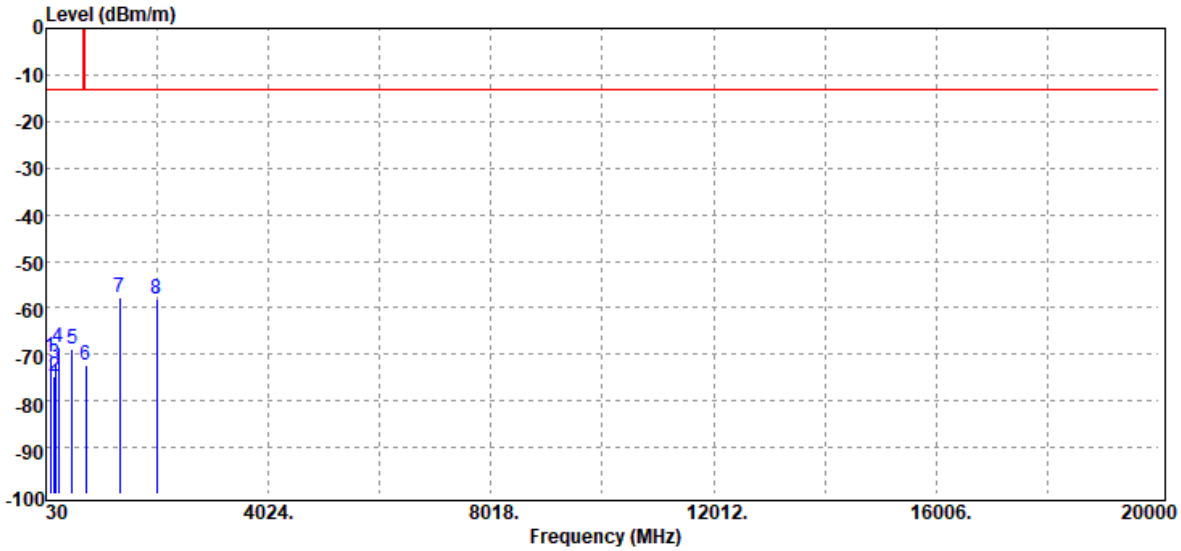
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900_673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-70.65	-68.32	-1.30	-1.03	-13.00	-57.65
182.29	-74.60	-75.13	1.92	-1.39	-13.00	-61.60
199.75	-72.00	-74.86	4.29	-1.43	-13.00	-59.00
250.19	-68.36	-71.11	4.34	-1.59	-13.00	-55.36
500.45	-68.98	-70.82	4.25	-2.41	-13.00	-55.98
745.86	-72.43	-72.81	2.83	-2.45	-13.00	-59.43
1346.00	-57.64	-60.97	7.11	-3.78	-13.00	-44.64
2019.00	-58.24	-63.70	10.16	-4.70	-13.00	-45.24

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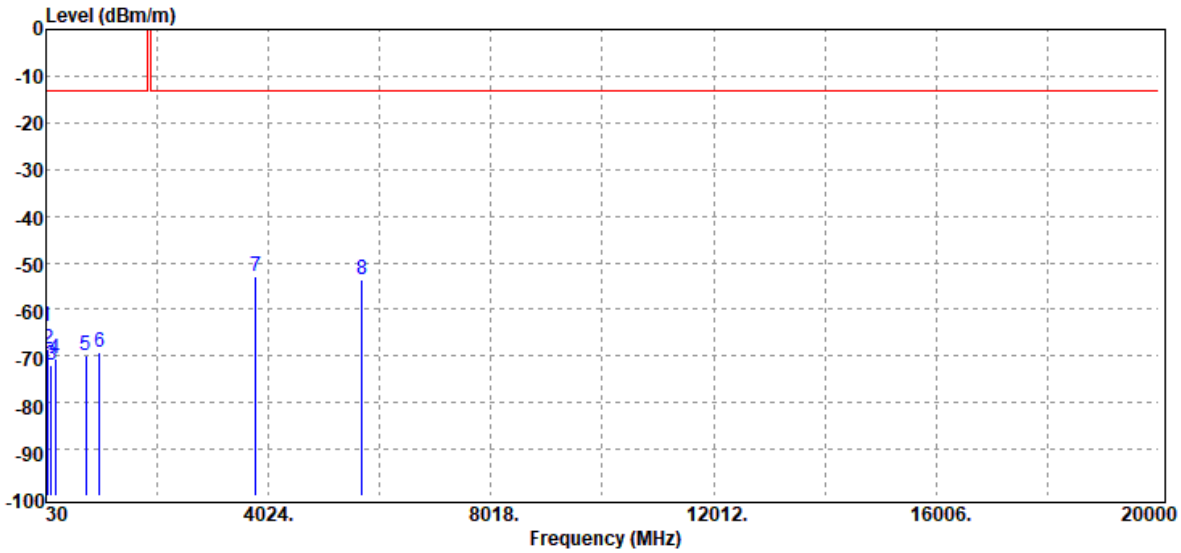
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829_1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.82	-49.50	-13.66	-0.66	-13.00	-50.82
63.95	-68.35	-58.97	-8.60	-0.78	-13.00	-55.35
125.06	-71.92	-68.89	-1.88	-1.15	-13.00	-58.92
192.96	-70.60	-72.86	3.69	-1.43	-13.00	-57.60
745.86	-69.75	-70.13	2.83	-2.45	-13.00	-56.75
985.45	-69.31	-70.12	3.95	-3.14	-13.00	-56.31
3800.00	-52.81	-57.51	12.40	-7.70	-13.00	-39.81
5700.00	-53.70	-57.40	12.80	-9.10	-13.00	-40.70

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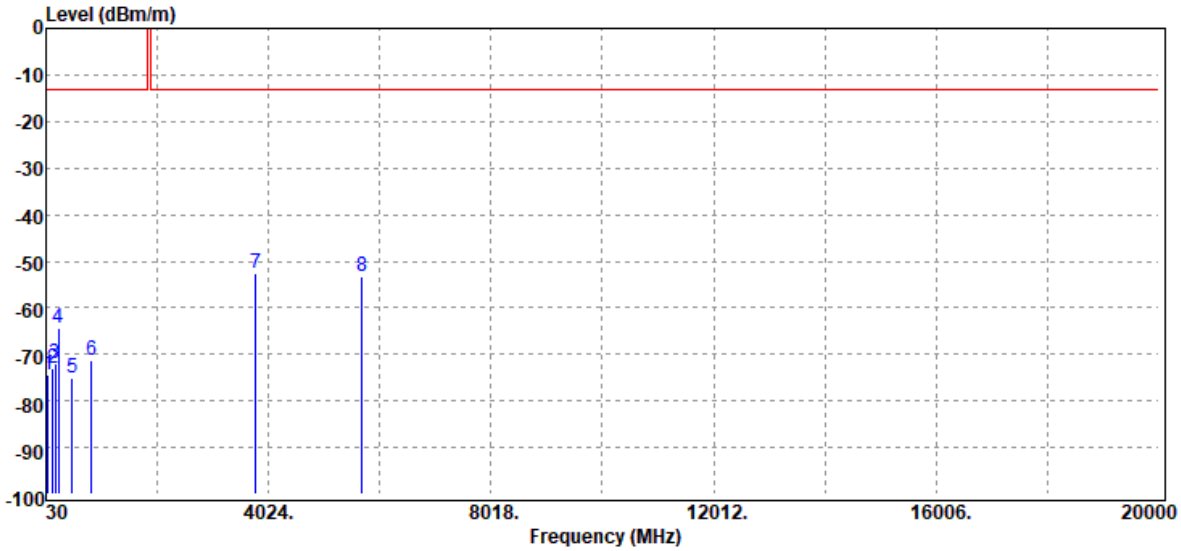
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:829_1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-74.38	-65.79	-7.79	-0.80	-13.00	-61.38
159.01	-72.86	-70.33	-1.29	-1.24	-13.00	-59.86
191.99	-72.09	-74.20	3.54	-1.43	-13.00	-59.09
250.19	-64.46	-67.21	4.34	-1.59	-13.00	-51.46
500.45	-74.92	-76.76	4.25	-2.41	-13.00	-61.92
851.59	-71.13	-73.27	4.65	-2.51	-13.00	-58.13
3800.00	-52.56	-57.26	12.40	-7.70	-13.00	-39.56
5700.00	-53.21	-56.91	12.80	-9.10	-13.00	-40.21

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:5A_n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829_2590 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-64.33	-50.17	-13.48	-0.68	-25.00	-39.33
65.89	-66.94	-58.35	-7.79	-0.80	-25.00	-41.94
95.96	-72.23	-70.95	-0.28	-1.00	-25.00	-47.23
190.05	-71.22	-73.04	3.26	-1.44	-25.00	-46.22
830.25	-70.31	-71.98	4.56	-2.89	-25.00	-45.31
986.42	-68.21	-69.01	3.96	-3.16	-25.00	-43.21
5180.00	-52.66	-57.04	12.28	-7.90	-25.00	-27.66
7770.00	-49.19	-50.28	11.50	-10.41	-25.00	-24.19

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:5A_n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:829_2590 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-72.48	-66.20	-5.42	-0.86	-25.00	-47.48
158.04	-72.85	-70.37	-1.25	-1.23	-25.00	-47.85
250.19	-65.55	-68.30	4.34	-1.59	-25.00	-40.55
500.45	-73.96	-75.80	4.25	-2.41	-25.00	-48.96
844.80	-71.26	-73.19	4.72	-2.79	-25.00	-46.26
977.69	-70.34	-71.17	3.83	-3.00	-25.00	-45.34
5180.00	-51.79	-56.17	12.28	-7.90	-25.00	-26.79
7770.00	-49.08	-50.17	11.50	-10.41	-25.00	-24.08

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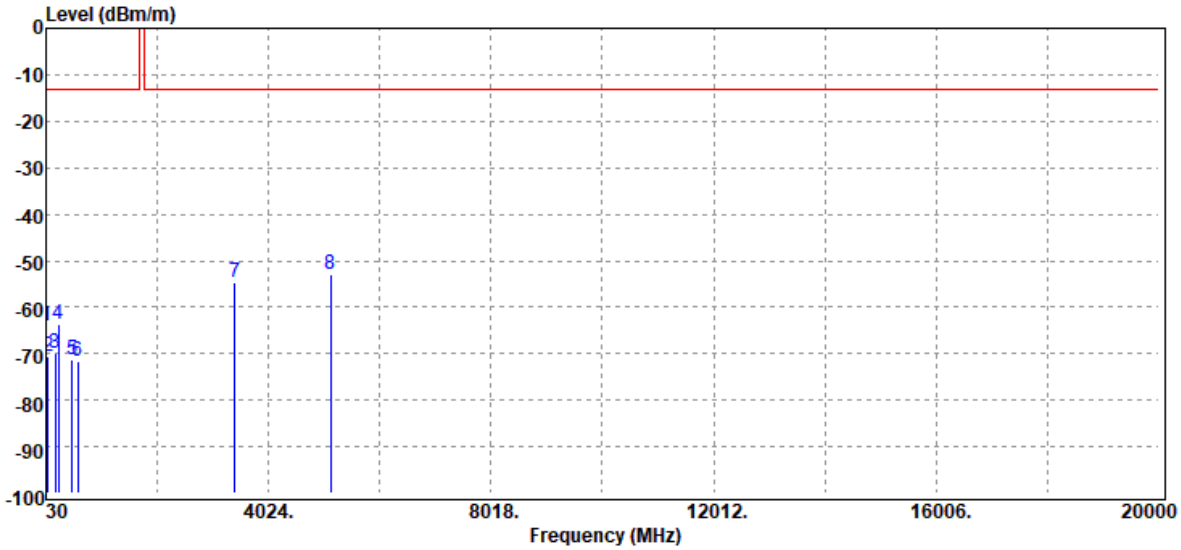
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829_1712.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-64.14	-49.83	-13.67	-0.64	-13.00	-51.14
63.95	-70.72	-61.34	-8.60	-0.78	-13.00	-57.72
199.75	-70.00	-72.86	4.29	-1.43	-13.00	-57.00
250.19	-63.52	-66.27	4.34	-1.59	-13.00	-50.52
500.45	-71.29	-73.13	4.25	-2.41	-13.00	-58.29
600.36	-71.71	-72.71	3.64	-2.64	-13.00	-58.71
3425.00	-54.72	-61.42	12.55	-5.85	-13.00	-41.72
5137.50	-53.06	-57.21	12.10	-7.95	-13.00	-40.06

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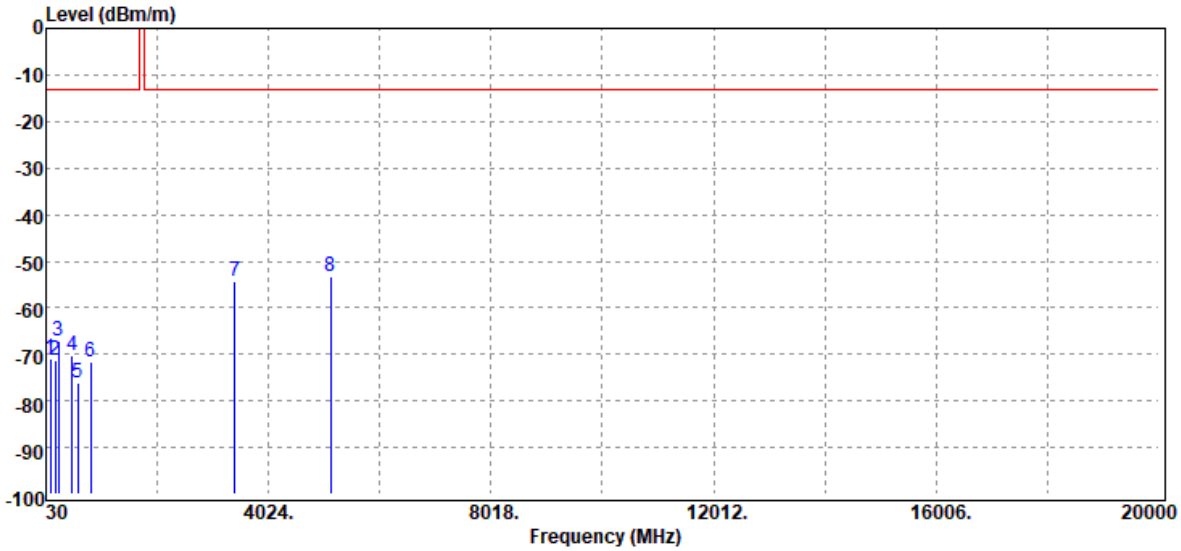
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:829_1712.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-70.82	-68.49	-1.30	-1.03	-13.00	-57.82
197.81	-71.43	-74.19	4.19	-1.43	-13.00	-58.43
250.19	-67.11	-69.86	4.34	-1.59	-13.00	-54.11
500.45	-70.08	-71.92	4.25	-2.41	-13.00	-57.08
604.24	-76.06	-77.10	3.62	-2.58	-13.00	-63.06
833.16	-71.66	-73.30	4.59	-2.95	-13.00	-58.66
3425.00	-54.39	-61.09	12.55	-5.85	-13.00	-41.39
5137.50	-53.31	-57.46	12.10	-7.95	-13.00	-40.31

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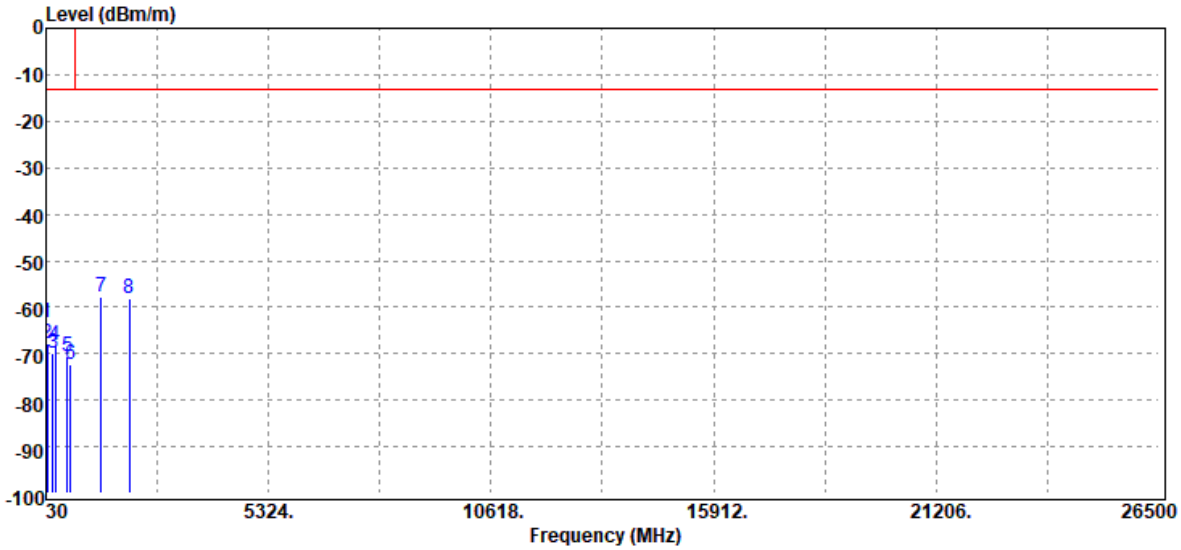
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:7A_n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2535_673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-63.30	-48.93	-13.72	-0.65	-13.00	-50.30
65.89	-67.99	-59.40	-7.79	-0.80	-13.00	-54.99
196.84	-69.99	-72.62	4.06	-1.43	-13.00	-56.99
250.19	-68.20	-70.95	4.34	-1.59	-13.00	-55.20
532.46	-70.54	-72.68	4.21	-2.07	-13.00	-57.54
609.09	-72.15	-73.14	3.51	-2.52	-13.00	-59.15
1346.00	-57.74	-61.07	7.11	-3.78	-13.00	-44.74
2019.00	-58.27	-63.73	10.16	-4.70	-13.00	-45.27

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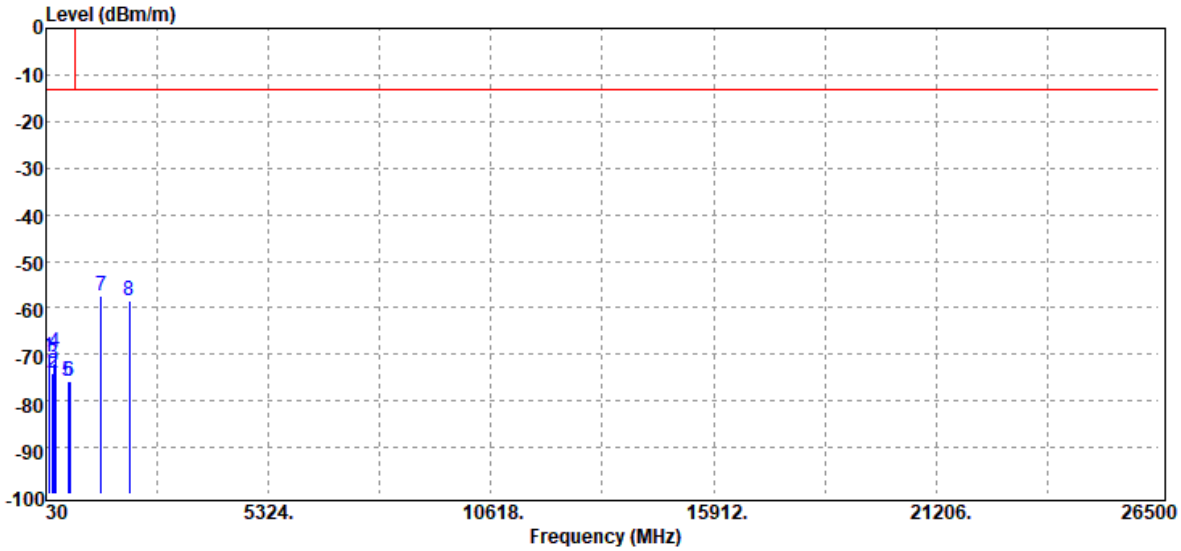
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:7A_n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2535_673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-70.72	-68.39	-1.30	-1.03	-13.00	-57.72
185.20	-73.93	-74.89	2.37	-1.41	-13.00	-60.93
204.60	-71.97	-75.02	4.50	-1.45	-13.00	-58.97
250.19	-69.42	-72.17	4.34	-1.59	-13.00	-56.42
548.95	-75.83	-77.74	4.19	-2.28	-13.00	-62.83
599.39	-75.66	-76.68	3.66	-2.64	-13.00	-62.66
1346.00	-57.35	-60.68	7.11	-3.78	-13.00	-44.35
2019.00	-58.51	-63.97	10.16	-4.70	-13.00	-45.51

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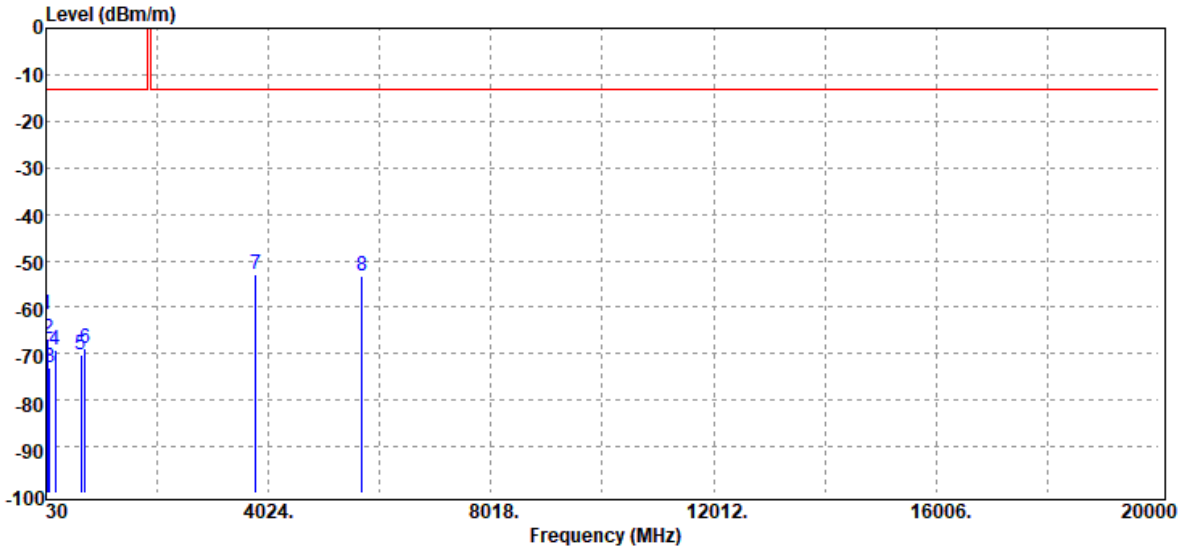
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:12A_n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:711_1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-61.53	-47.21	-13.66	-0.66	-13.00	-48.53
66.86	-66.76	-58.43	-7.53	-0.80	-13.00	-53.76
95.96	-72.93	-71.65	-0.28	-1.00	-13.00	-59.93
192.96	-69.14	-71.40	3.69	-1.43	-13.00	-56.14
658.56	-70.27	-71.54	3.65	-2.38	-13.00	-57.27
730.34	-68.83	-69.24	3.14	-2.73	-13.00	-55.83
3800.00	-52.83	-57.53	12.40	-7.70	-13.00	-39.83
5700.00	-53.37	-57.07	12.80	-9.10	-13.00	-40.37

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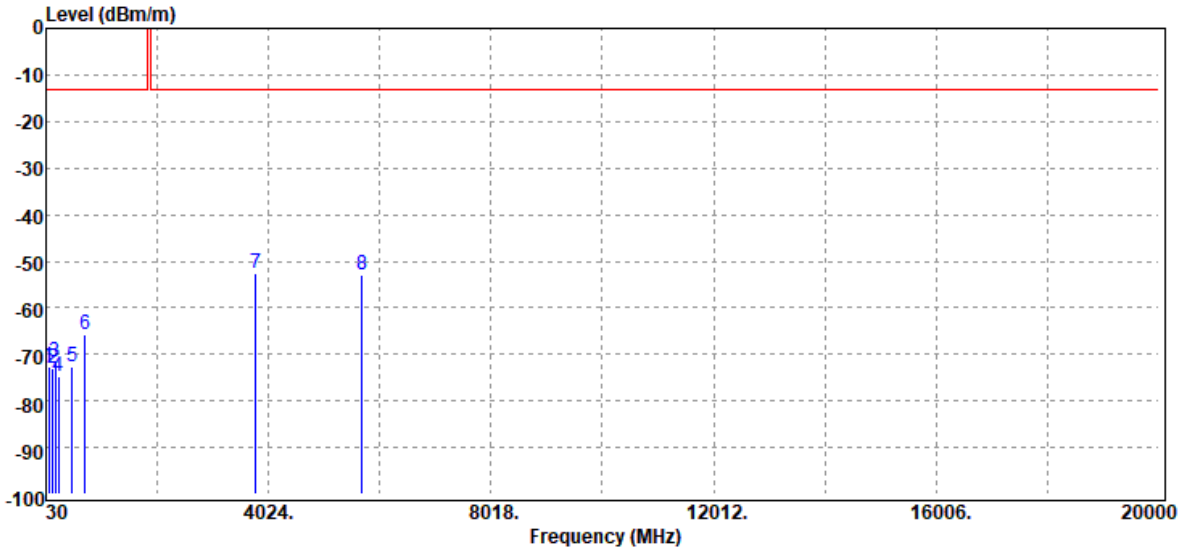
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:12A_n2A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:711_1900 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-72.81	-66.53	-5.42	-0.86	-13.00	-59.81
158.04	-73.15	-70.67	-1.25	-1.23	-13.00	-60.15
192.96	-71.68	-73.94	3.69	-1.43	-13.00	-58.68
250.19	-74.65	-77.40	4.34	-1.59	-13.00	-61.65
500.45	-72.70	-74.54	4.25	-2.41	-13.00	-59.70
730.34	-65.80	-66.21	3.14	-2.73	-13.00	-52.80
3800.00	-52.74	-57.44	12.40	-7.70	-13.00	-39.74
5700.00	-53.05	-56.75	12.80	-9.10	-13.00	-40.05

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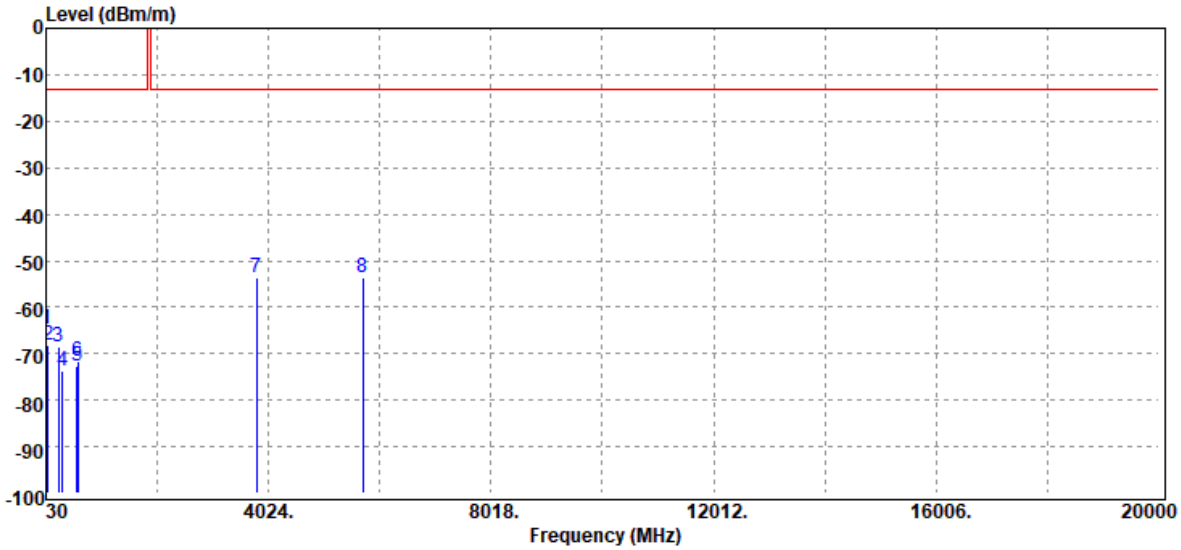
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:12A_n25A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:711_1905 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-64.62	-50.25	-13.72	-0.65	-13.00	-51.62
65.89	-68.19	-59.60	-7.79	-0.80	-13.00	-55.19
250.19	-68.45	-71.20	4.34	-1.59	-13.00	-55.45
328.76	-73.68	-76.04	4.24	-1.88	-13.00	-60.68
589.69	-72.61	-73.76	3.80	-2.65	-13.00	-59.61
599.39	-71.77	-72.79	3.66	-2.64	-13.00	-58.77
3810.00	-53.62	-58.33	12.38	-7.67	-13.00	-40.62
5715.00	-53.55	-57.28	12.80	-9.07	-13.00	-40.55

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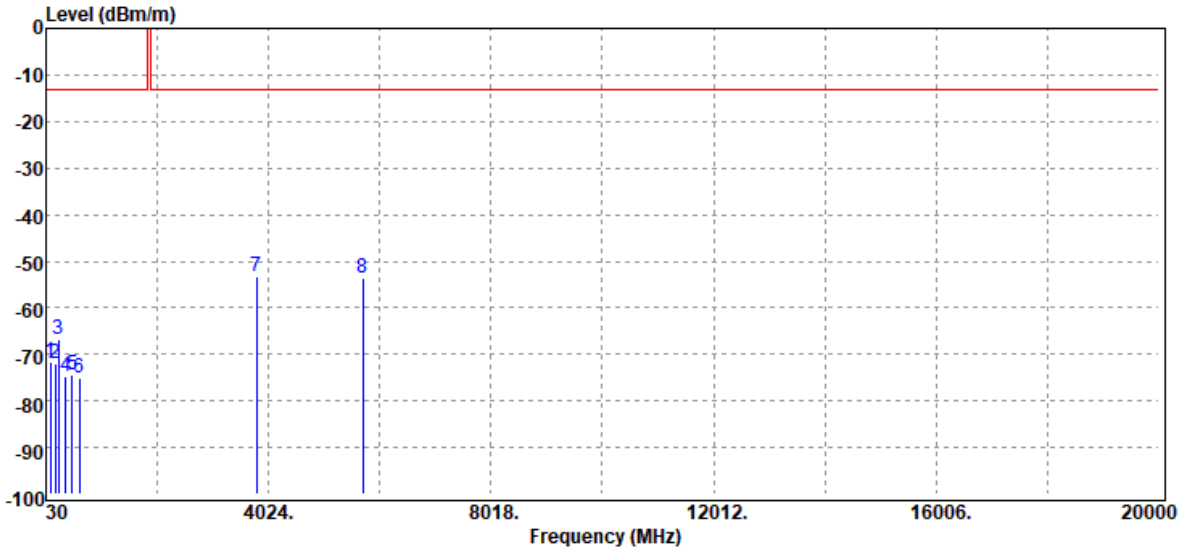
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:12A_n25A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:711_1905 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-71.46	-69.13	-1.30	-1.03	-13.00	-58.46
199.75	-71.82	-74.68	4.29	-1.43	-13.00	-58.82
250.19	-66.86	-69.61	4.34	-1.59	-13.00	-53.86
388.90	-74.73	-77.09	4.40	-2.04	-13.00	-61.73
500.45	-74.47	-76.31	4.25	-2.41	-13.00	-61.47
624.61	-75.24	-76.39	3.49	-2.34	-13.00	-62.24
3810.00	-53.27	-57.98	12.38	-7.67	-13.00	-40.27
5715.00	-53.49	-57.22	12.80	-9.07	-13.00	-40.49

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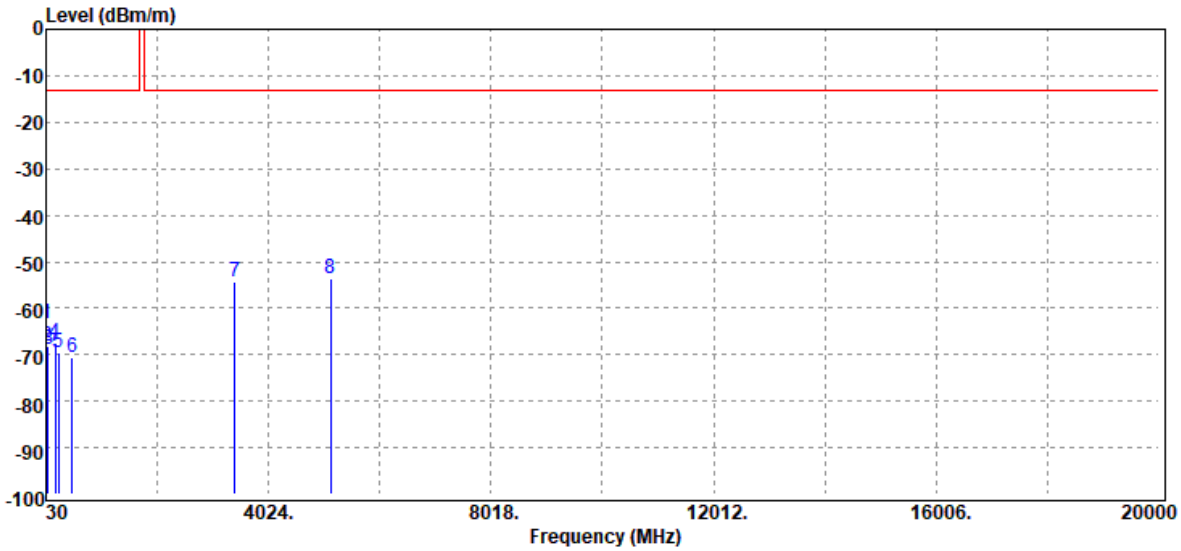
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:12A_n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:711_1712.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-63.42	-49.05	-13.72	-0.65	-13.00	-50.42
54.25	-68.09	-56.64	-10.73	-0.72	-13.00	-55.09
65.89	-68.78	-60.19	-7.79	-0.80	-13.00	-55.78
201.69	-67.64	-70.57	4.37	-1.44	-13.00	-54.64
250.19	-69.41	-72.16	4.34	-1.59	-13.00	-56.41
500.45	-70.57	-72.41	4.25	-2.41	-13.00	-57.57
3425.00	-54.35	-61.05	12.55	-5.85	-13.00	-41.35
5137.50	-53.47	-57.62	12.10	-7.95	-13.00	-40.47

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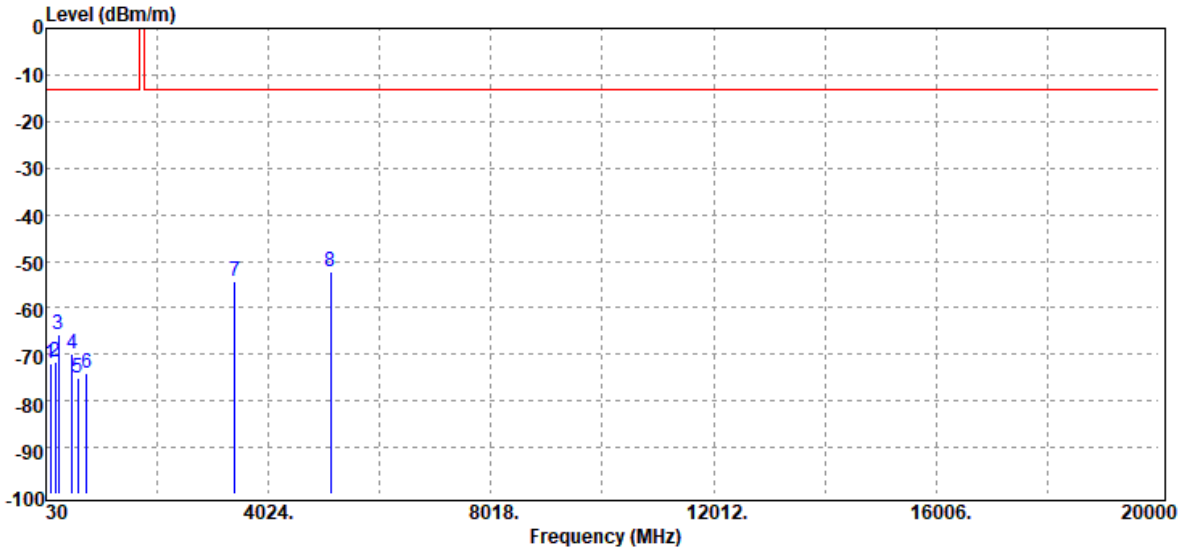
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:12A_n66A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:711_1712.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-71.95	-69.62	-1.30	-1.03	-13.00	-58.95
199.75	-71.78	-74.64	4.29	-1.43	-13.00	-58.78
250.19	-65.79	-68.54	4.34	-1.59	-13.00	-52.79
500.45	-70.06	-71.90	4.25	-2.41	-13.00	-57.06
600.36	-74.92	-75.92	3.64	-2.64	-13.00	-61.92
755.56	-73.91	-74.39	2.95	-2.47	-13.00	-60.91
3425.00	-54.26	-60.96	12.55	-5.85	-13.00	-41.26
5137.50	-52.16	-56.31	12.10	-7.95	-13.00	-39.16

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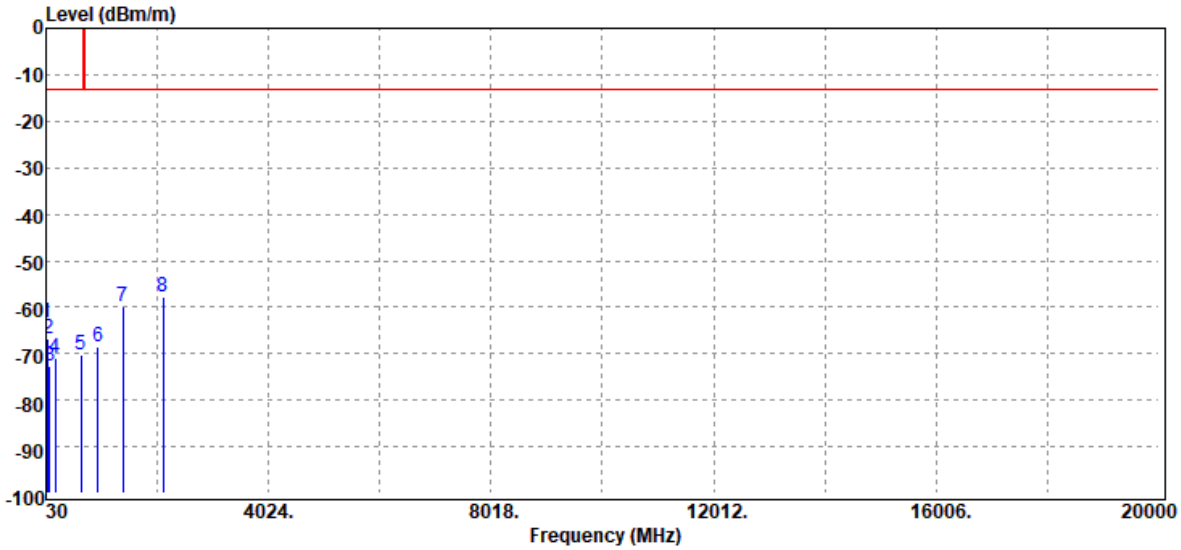
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:66A_n12A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1745_708.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-63.28	-48.91	-13.72	-0.65	-13.00	-50.28
66.86	-66.74	-58.41	-7.53	-0.80	-13.00	-53.74
94.99	-72.70	-71.33	-0.37	-1.00	-13.00	-59.70
194.90	-70.84	-73.29	3.88	-1.43	-13.00	-57.84
657.59	-70.36	-71.61	3.64	-2.39	-13.00	-57.36
964.11	-68.46	-69.34	3.76	-2.88	-13.00	-55.46
1417.00	-59.80	-63.67	7.74	-3.87	-13.00	-46.80
2125.50	-57.95	-62.74	9.59	-4.80	-13.00	-44.95

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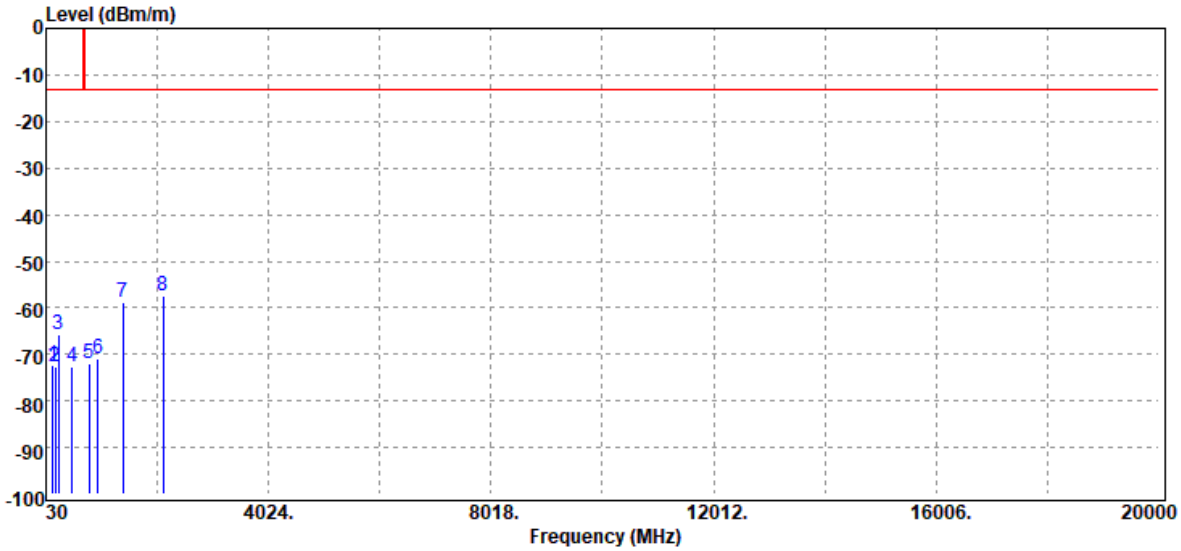
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:66A_n12A	Test Date	:2021-04-08
Test Mode	:Tx CH High	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1745_708.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
159.01	-72.47	-69.94	-1.29	-1.24	-13.00	-59.47
191.99	-72.62	-74.73	3.54	-1.43	-13.00	-59.62
250.19	-65.86	-68.61	4.34	-1.59	-13.00	-52.86
500.45	-72.75	-74.59	4.25	-2.41	-13.00	-59.75
807.94	-71.93	-73.09	4.23	-3.07	-13.00	-58.93
958.29	-70.80	-71.60	3.74	-2.94	-13.00	-57.80
1417.00	-58.74	-62.61	7.74	-3.87	-13.00	-45.74
2125.50	-57.47	-62.26	9.59	-4.80	-13.00	-44.47

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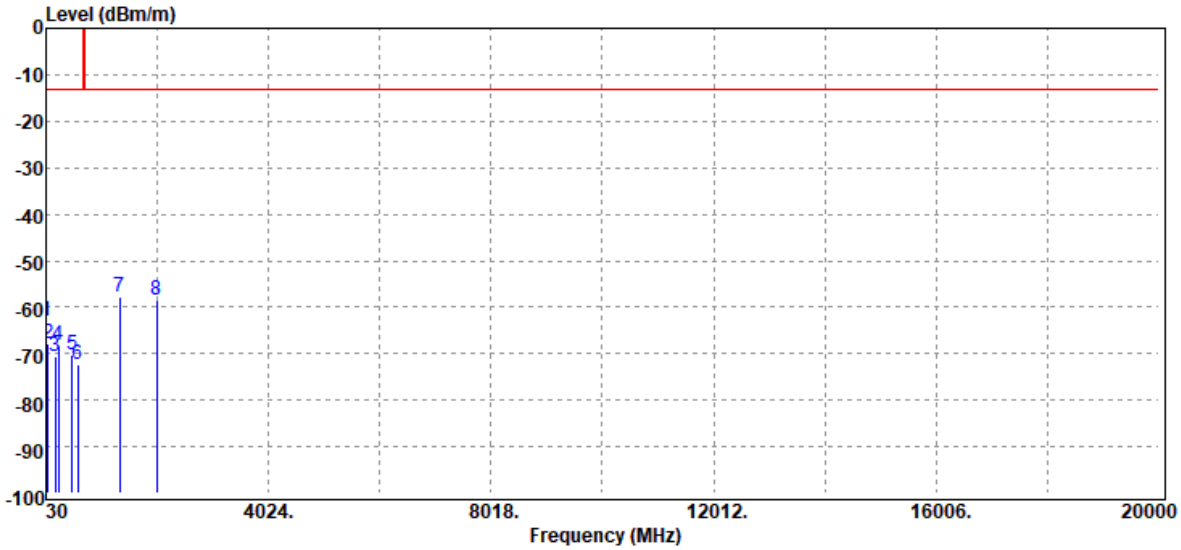
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:66A_n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1745_673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-63.13	-48.48	-14.03	-0.62	-13.00	-50.13
65.89	-67.77	-59.18	-7.79	-0.80	-13.00	-54.77
202.66	-70.68	-73.66	4.42	-1.44	-13.00	-57.68
250.19	-68.12	-70.87	4.34	-1.59	-13.00	-55.12
500.45	-70.14	-71.98	4.25	-2.41	-13.00	-57.14
595.51	-72.18	-73.29	3.76	-2.65	-13.00	-59.18
1346.00	-57.82	-61.15	7.11	-3.78	-13.00	-44.82
2019.00	-58.38	-63.84	10.16	-4.70	-13.00	-45.38

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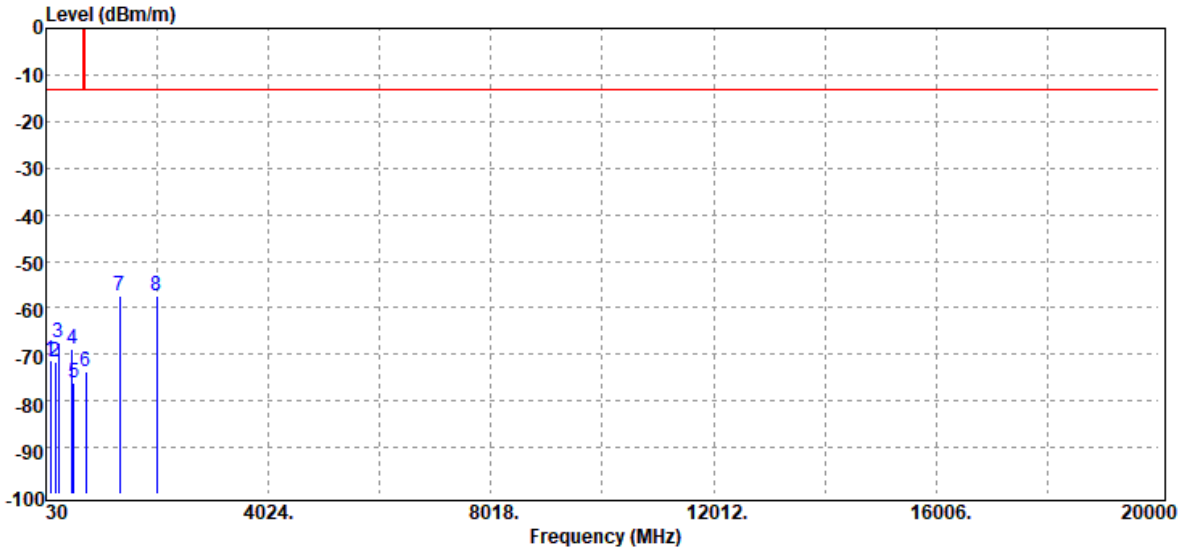
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:66A_n71A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1745_673 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-71.19	-68.86	-1.30	-1.03	-13.00	-58.19
197.81	-71.67	-74.43	4.19	-1.43	-13.00	-58.67
250.19	-67.59	-70.34	4.34	-1.59	-13.00	-54.59
500.45	-68.78	-70.62	4.25	-2.41	-13.00	-55.78
524.70	-76.14	-78.22	4.18	-2.10	-13.00	-63.14
745.86	-73.74	-74.12	2.83	-2.45	-13.00	-60.74
1346.00	-57.41	-60.74	7.11	-3.78	-13.00	-44.41
2019.00	-57.54	-63.00	10.16	-4.70	-13.00	-44.54

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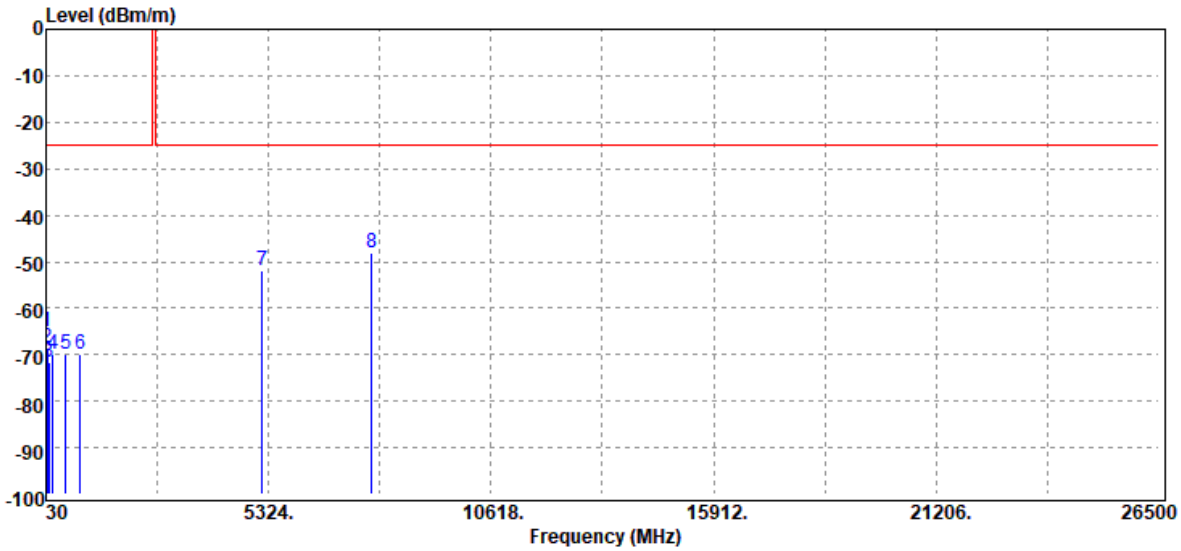
Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:71A_n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:673_2590 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-64.94	-50.78	-13.48	-0.68	-25.00	-39.94
65.89	-68.57	-59.98	-7.79	-0.80	-25.00	-43.57
94.99	-71.76	-70.39	-0.37	-1.00	-25.00	-46.76
194.90	-69.85	-72.30	3.88	-1.43	-25.00	-44.85
500.45	-70.02	-71.86	4.25	-2.41	-25.00	-45.02
835.10	-69.92	-71.54	4.61	-2.99	-25.00	-44.92
5180.00	-52.04	-56.42	12.28	-7.90	-25.00	-27.04
7770.00	-48.16	-49.25	11.50	-10.41	-25.00	-23.16

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Report Number	:ER/2021/20012	Test Site	:SAC I Chamber
Operation Mode	:71A_n38A	Test Date	:2021-04-08
Test Mode	:Tx CH Low	Temp./Humi.	:23.9/61
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:673_2590 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
159.01	-73.54	-71.01	-1.29	-1.24	-25.00	-48.54
180.35	-72.86	-72.95	1.47	-1.38	-25.00	-47.86
250.19	-66.25	-69.00	4.34	-1.59	-25.00	-41.25
500.45	-71.20	-73.04	4.25	-2.41	-25.00	-46.20
624.61	-71.87	-73.02	3.49	-2.34	-25.00	-46.87
975.75	-69.95	-70.84	3.85	-2.96	-25.00	-44.95
5180.00	-51.73	-56.11	12.28	-7.90	-25.00	-26.73
7770.00	-47.34	-48.43	11.50	-10.41	-25.00	-22.34

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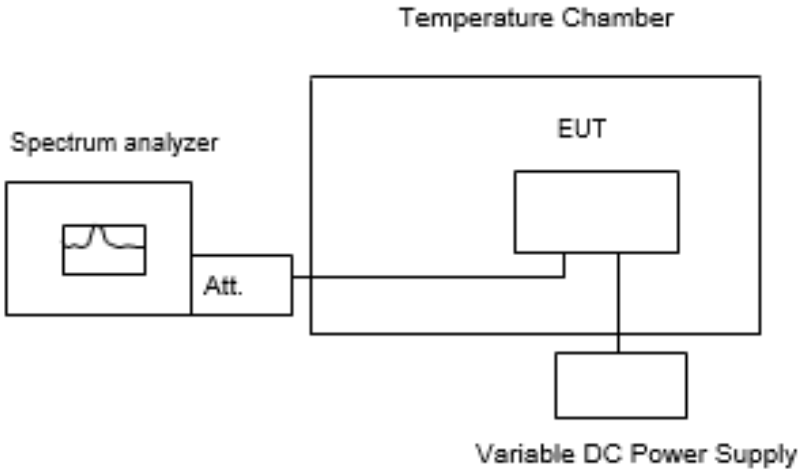
10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2 Test Set-up



Note: *Measurement setup for testing on Antenna connector*

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G18G	18112200202	12/16/2020	12/15/2021

10.5 Measurement Result

NR Band 2				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	1880 MHz 20M CH 376000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	1879.999980	-20	4700
3.87	25	1879.999990	-10	4700
3.483	25	1879.999971	-29	4700
3.4 (End Point)	25	1879.999983	-17	4700
Freq. ERROR vs. Temp.				
3.87	-30	1880.000002	2	4700
3.87	-20	1879.999977	-23	4700
3.87	-10	1880.000036	36	4700
3.87	0	1880.000003	3	4700
3.87	10	1879.999989	-11	4700
3.87	20	1880.000022	22	4700
3.87	30	1879.999980	-20	4700
3.87	40	1880.000035	35	4700
3.87	50	1880.000022	22	4700

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NR Band 5				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	836.5	MHz 20M CH 167300
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	836.499971	-29	2091
3.87	25	836.499980	-20	2091
3.483	25	836.499974	-26	2091
3.4 (End Point)	25	836.499977	-23	2091
Freq. ERROR vs. Temp.				
3.87	-30	836.499980	-20	2091
3.87	-20	836.499987	-13	2091
3.87	-10	836.499988	-12	2091
3.87	0	836.499998	-2	2091
3.87	10	836.499999	-1	2091
3.87	20	836.499995	-5	2091
3.87	30	836.500035	35	2091
3.87	40	836.500011	11	2091
3.87	50	836.500012	12	2091

NR Band 7				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	2535	MHz 20M CH 507000
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	2535.000025	25	6338
3.87	25	2534.999998	-2	6338
3.483	25	2534.999989	-11	6338
3.4 (End Point)	25	2534.999977	-23	6338
Freq. ERROR vs. Temp.				
3.87	-30	2535.000035	35	6338
3.87	-20	2534.999976	-24	6338
3.87	-10	2535.000018	18	6338
3.87	0	2535.000028	28	6338
3.87	10	2535.000040	40	6338
3.87	20	2535.000029	29	6338
3.87	30	2535.000029	29	6338
3.87	40	2535.000009	9	6338
3.87	50	2534.999985	-15	6338

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NR Band 12				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	707.5 MHz 15M CH 141500	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	707.499978	-22	1769
3.87	25	707.499992	-8	1769
3.483	25	707.499984	-16	1769
3.4 (End Point)	25	707.500017	17	1769
Freq. ERROR vs. Temp.				
3.87	-30	707.499983	-17	1769
3.87	-20	707.499981	-19	1769
3.87	-10	707.499990	-10	1769
3.87	0	707.499981	-19	1769
3.87	10	707.500015	15	1769
3.87	20	707.499987	-13	1769
3.87	30	707.500028	28	1769
3.87	40	707.500032	32	1769
3.87	50	707.499983	-17	1769

NR Band 25				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	1882.5 MHz 20M CH 376500	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	1882.500016	16	4706
3.87	25	1882.500006	6	4706
3.483	25	1882.499978	-22	4706
3.4 (End Point)	25	1882.500007	7	4706
Freq. ERROR vs. Temp.				
3.87	-30	1882.499972	-28	4706
3.87	-20	1882.499996	-4	4706
3.87	-10	1882.500031	31	4706
3.87	0	1882.499998	-2	4706
3.87	10	1882.499971	-29	4706
3.87	20	1882.500010	10	4706
3.87	30	1882.499980	-20	4706
3.87	40	1882.499981	-19	4706
3.87	50	1882.499972	-28	4706

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NR Band 38				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	2595	MHz 20M CH 519000
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	2594.999972	-28	6488
3.87	25	2594.999997	-3	6488
3.483	25	2594.999978	-22	6488
3.4 (End Point)	25	2595.000006	6	6488
Freq. ERROR vs. Temp.				
3.87	-30	2595.000027	27	6488
3.87	-20	2594.999996	-4	6488
3.87	-10	2594.999987	-13	6488
3.87	0	2595.000018	18	6488
3.87	10	2595.000014	14	6488
3.87	20	2595.000011	11	6488
3.87	30	2594.999988	-12	6488
3.87	40	2594.999972	-28	6488
3.87	50	2594.999982	-18	6488

NR Band 66				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	1745	MHz 20M CH 349000
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	1744.999985	-15	4363
3.87	25	1745.000020	20	4363
3.483	25	1745.000032	32	4363
3.4 (End Point)	25	1744.999990	-10	4363
Freq. ERROR vs. Temp.				
3.87	-30	1745.000038	38	4363
3.87	-20	1745.000034	34	4363
3.87	-10	1744.999978	-22	4363
3.87	0	1745.000031	31	4363
3.87	10	1745.000036	36	4363
3.87	20	1745.000039	39	4363
3.87	30	1745.000024	24	4363
3.87	40	1744.999999	-1	4363
3.87	50	1744.999984	-16	4363

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NR Band 71				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	680.5 MHz 20M CH 136100	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	680.499986	-14	1701
3.87	25	680.500016	16	1701
3.483	25	680.499974	-26	1701
3.4 (End Point)	25	680.500012	12	1701
Freq. ERROR vs. Temp.				
3.87	-30	680.500017	17	1701
3.87	-20	680.499988	-12	1701
3.87	-10	680.499974	-26	1701
3.87	0	680.500016	16	1701
3.87	10	680.499987	-13	1701
3.87	20	680.499983	-17	1701
3.87	30	680.500008	8	1701
3.87	40	680.500038	38	1701
3.87	50	680.500001	1	1701

Note: *The battery is rated 3.87V dc.*

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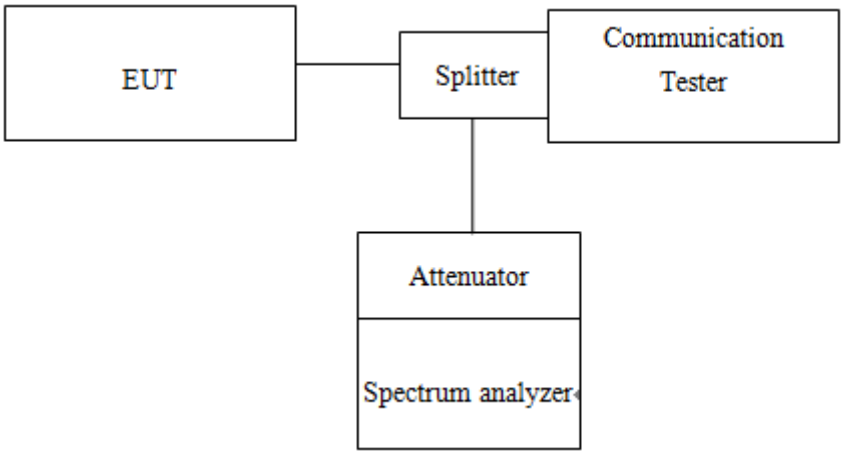
11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2 Test SET-UP



11.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G18G	18112200202	12/16/2020	12/15/2021

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11.5 Measurement Result

NR BAND 2															
DFT-S-OFDM_SCS 15 kHz															
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit			256QAM	Limit
1852.5	370500	7.53	13	1855.0	371000	7.43	13	1857.5	371500	7.86	13	1860.0	372000	7.62	13
1880.0	376000	7.64	13	1880.0	376000	7.53	13	1880.0	376000	7.84	13	1880.0	376000	7.80	13
1907.5	381500	7.50	13	1905.0	381000	7.38	13	1902.5	380500	7.98	13	1900.0	380000	7.67	13

NR BAND 5															
DFT-S-OFDM_SCS 15 kHz															
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit			256QAM	Limit
826.5	165300	7.62	13	829.0	165800	7.26	13	831.5	166300	7.85	13	834.0	166800	7.56	13
836.5	167300	7.29	13	836.5	167300	7.33	13	836.5	167300	7.93	13	836.5	167300	7.32	13
846.5	169300	7.51	13	844.0	168800	7.47	13	841.5	168300	7.60	13	839.0	167800	7.28	13

NR BAND 7															
DFT-S-OFDM_SCS 15 kHz															
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit			256QAM	Limit
2502.5	500500	7.54	13	2505.0	501000	7.60	13	2507.5	501500	7.89	13	2510.0	502000	7.57	13
2535.0	507000	7.65	13	2535.0	507000	7.51	13	2535.0	507000	7.67	13	2535.0	507000	7.33	13
2567.5	513500	7.46	13	2565.0	513000	7.62	13	2562.5	512500	7.88	13	2560.0	512000	7.63	13

NR BAND 12											
DFT-S-OFDM_SCS 15 kHz								DFT-OFDM_SCS 15 kHz			
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit
701.5	140300	7.41	13	704.0	140800	7.37	13	706.5	141300	7.79	13
707.5	141500	7.33	13	707.5	141500	7.31	13	707.5	141500	7.69	13
713.5	142700	7.42	13	711.0	142200	7.34	13	708.5	141700	7.85	13

NR BAND 25															
DFT-S-OFDM_SCS 15 kHz															
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit			256QAM	Limit
1852.5	370500	7.50	13	1855.0	371000	7.52	13	1857.5	371500	7.87	13	1860.0	372000	7.58	13
1882.5	376500	7.53	13	1882.5	376500	7.48	13	1882.5	376500	7.93	13	1882.5	376500	7.59	13
1912.5	382500	7.56	13	1910.0	382000	7.40	13	1907.5	381500	7.84	13	1905.0	381000	7.68	13

NR BAND 38											
DFT-S-OFDM_SCS 30 kHz								DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 20MHz				Channel bandwidth: 30MHz				Channel bandwidth: 40MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit
2580.0	516000	6.93	13	2585.0	517000	7.43	13	2590.0	518000	7.66	13
2595.0	519000	6.79	13	2595.0	519000	7.28	13	2595.0	519000	7.41	13
2610.0	522000	6.97	13	2605.0	521000	7.52	13	2600.0	520000	7.65	13

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NR BAND 66								NR BAND 66							
DFT-S-OFDM_SCS 15 kHz								DFT-S-OFDM_SCS 15 kHz							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit			256QAM	Limit
1712.5	342500	7.60	13	1715.0	343000	7.49	13	1717.5	343500	7.64	13	1720.0	344000	7.29	13
1745.0	349000	7.59	13	1745.0	349000	7.58	13	1745.0	349000	7.60	13	1745.0	349000	7.27	13
1777.5	355500	7.49	13	1775.0	355000	7.43	13	1772.5	354500	7.63	13	1770.0	354000	7.46	13

NR BAND 71								NR BAND 71							
DFT-S-OFDM_SCS 15 kHz								DFT-S-OFDM_SCS 15 kHz							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit			256QAM	Limit
665.5	133100	7.92	13	668.0	133600	7.60	13	670.5	134100	7.82	13	673.0	134600	7.48	13
680.5	136100	7.61	13	680.5	136100	7.57	13	680.5	136100	7.81	13	680.5	136100	7.51	13
695.5	139100	7.71	13	693.0	138600	7.68	13	690.5	138100	7.83	13	688.0	137500	7.53	13

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