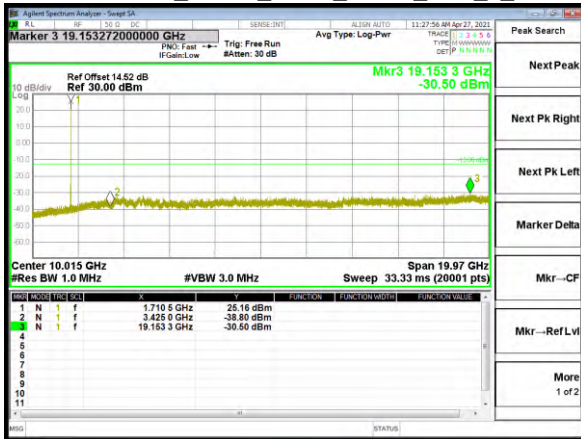
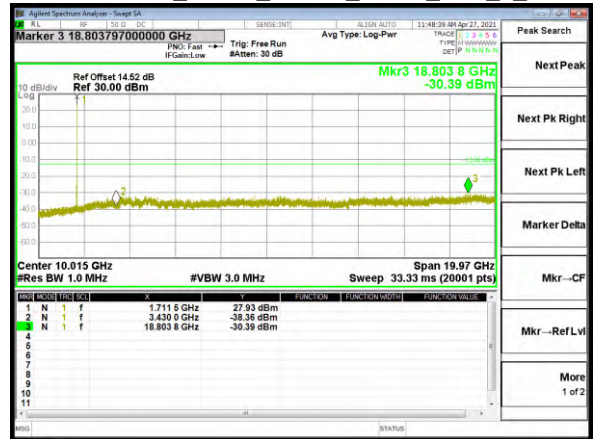


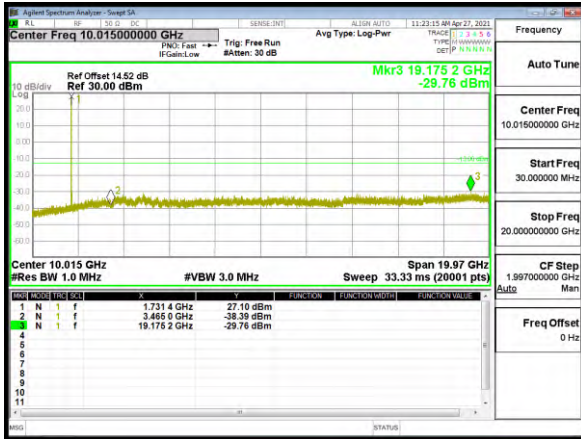
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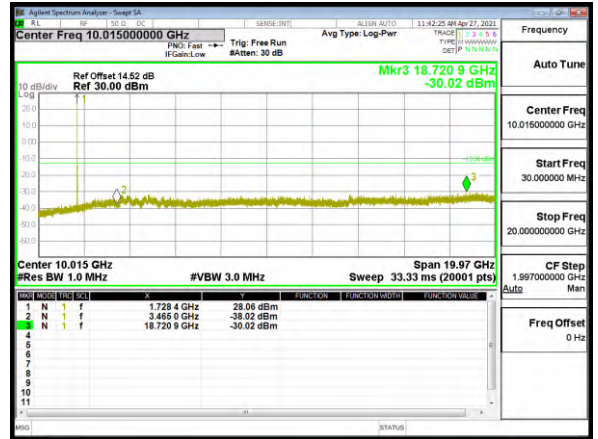
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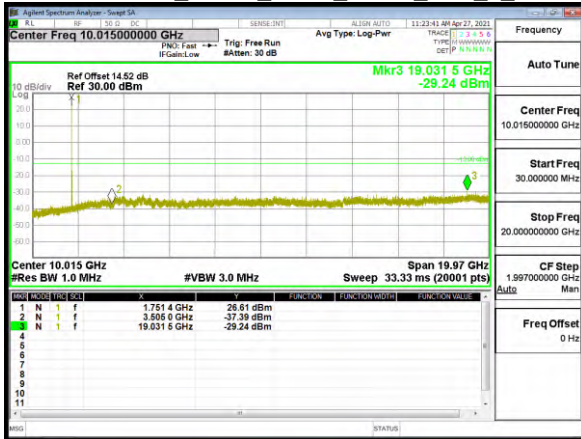
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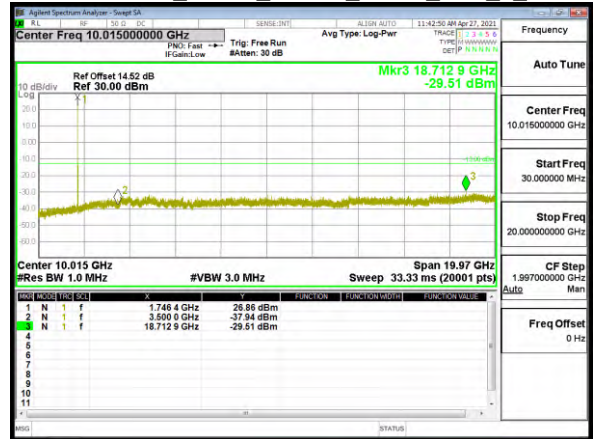
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Spurious Emission_Band4_5MHz_QPSK_RB1_0_CH20375



Spurious Emission_Band4_10MHz_QPSK_RB1_0_CH20350

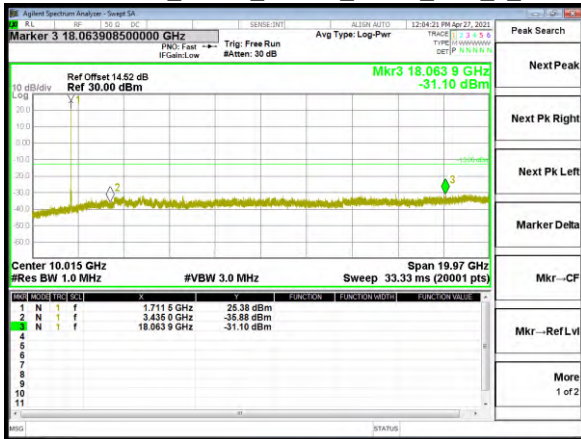


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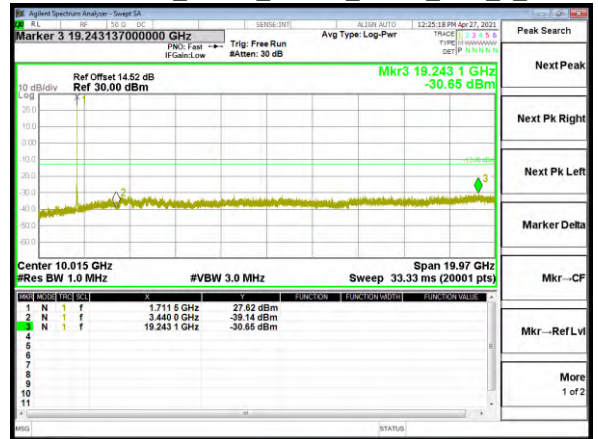
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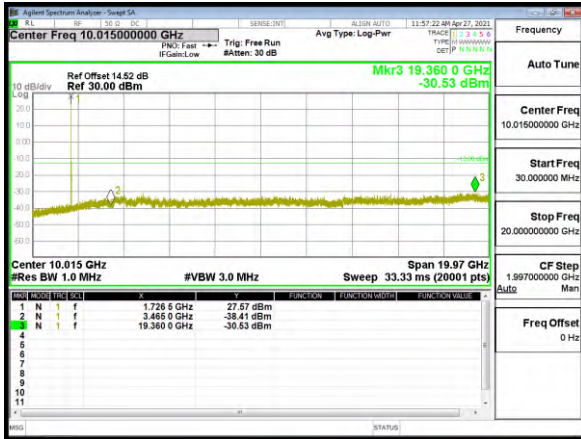
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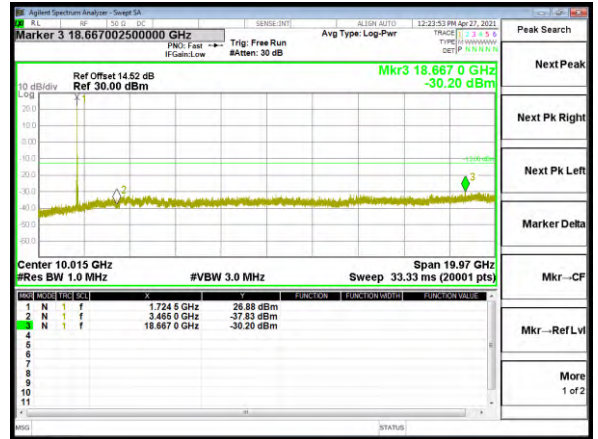
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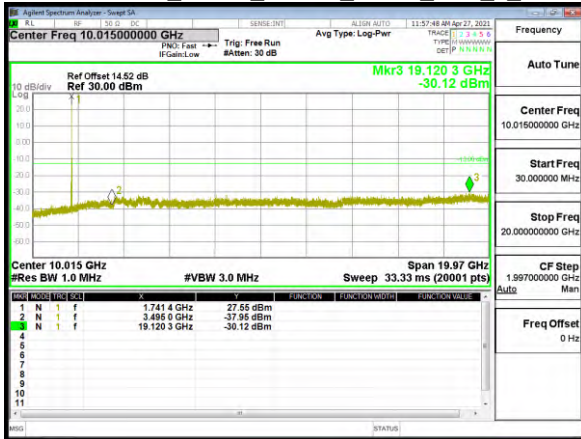
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Spurious Emission_Band4_20MHz_QPSK_RB1_0_CH20175



Spurious Emission_Band4_15MHz_QPSK_RB1_0_CH20325



Spurious Emission_Band4_20MHz_QPSK_RB1_0_CH20300

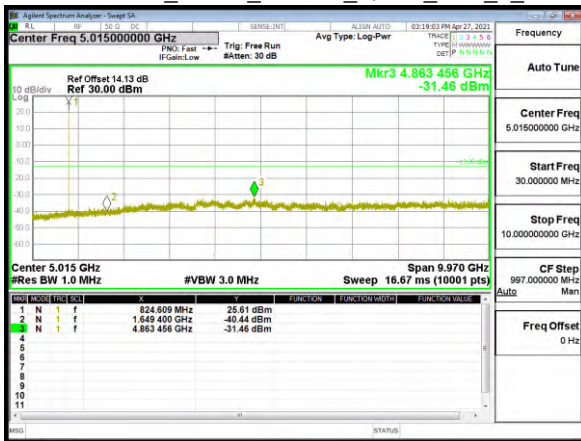


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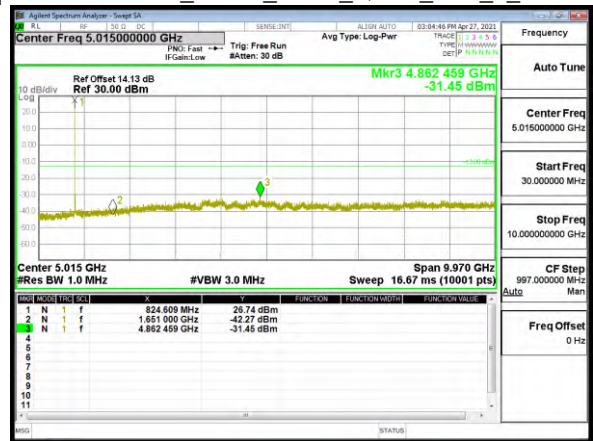
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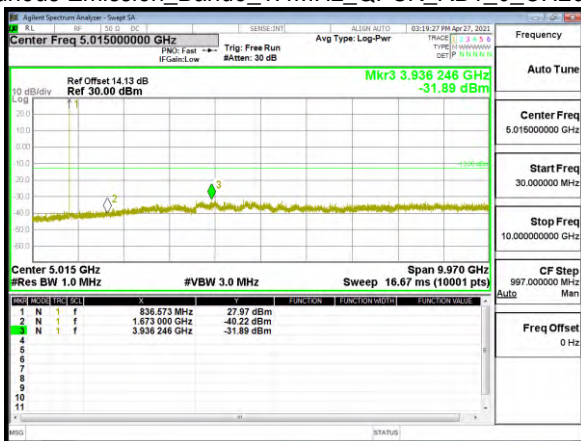
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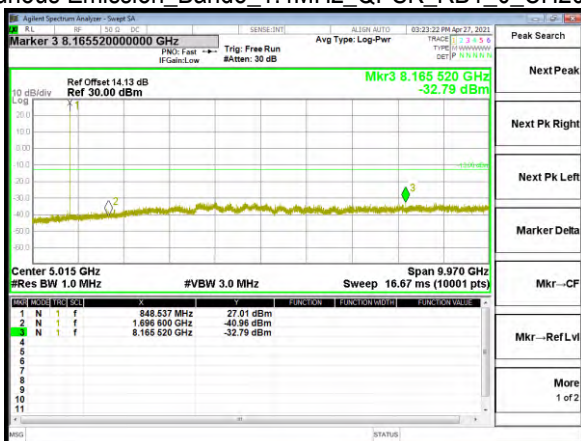
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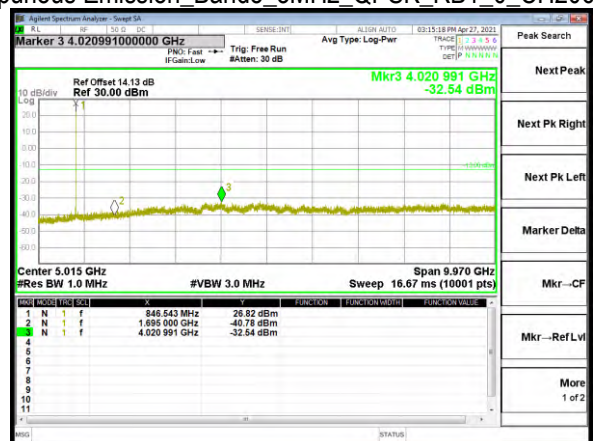
Spurious Emission_Band5_3MHz_QPSK_RB1_0_CH20525



Spurious Emission_Band5_1.4MHz_QPSK_RB1_0_CH20643



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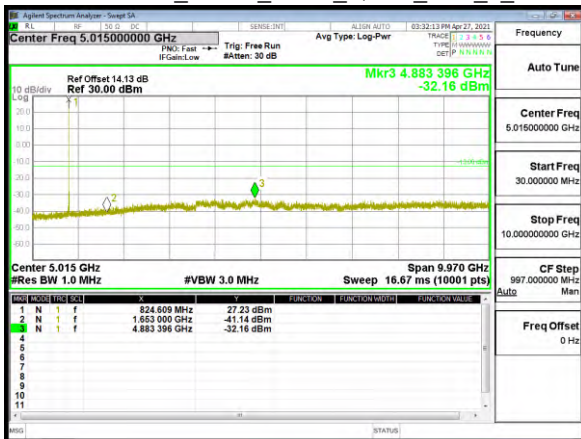


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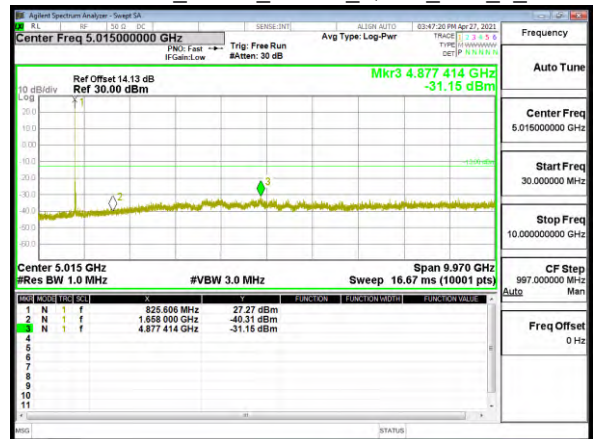
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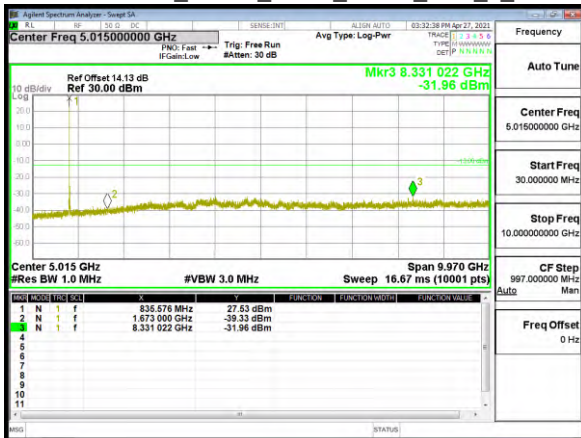
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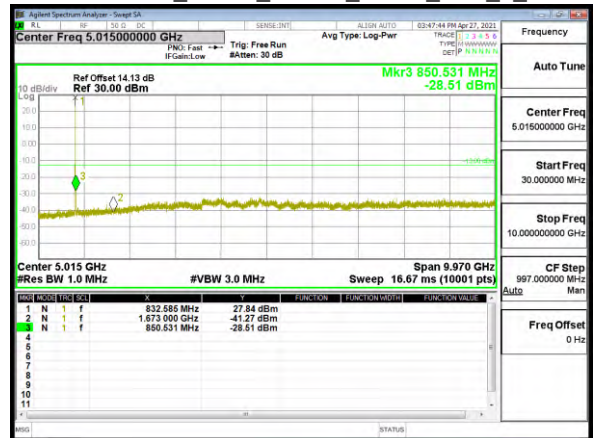
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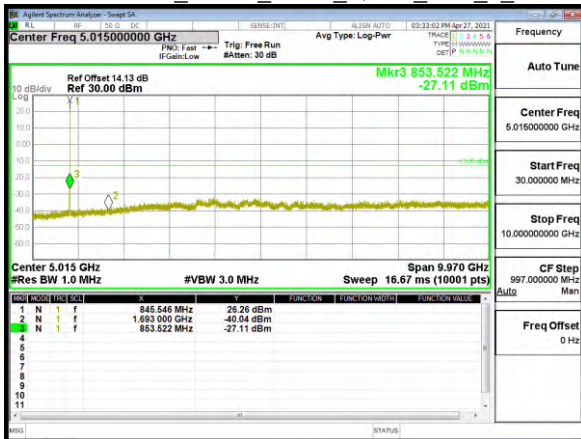
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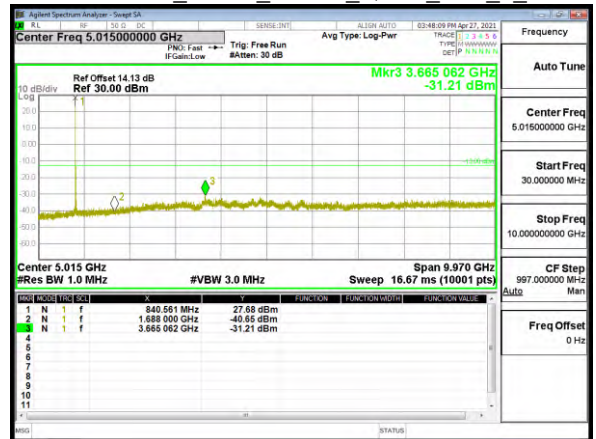
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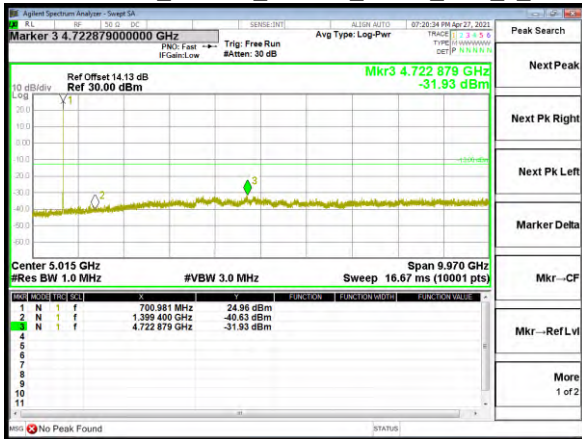


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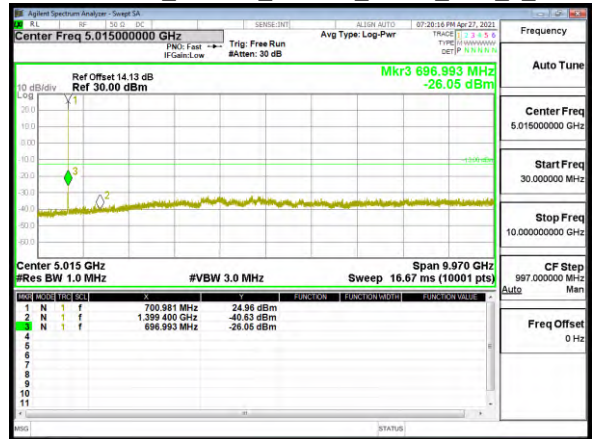
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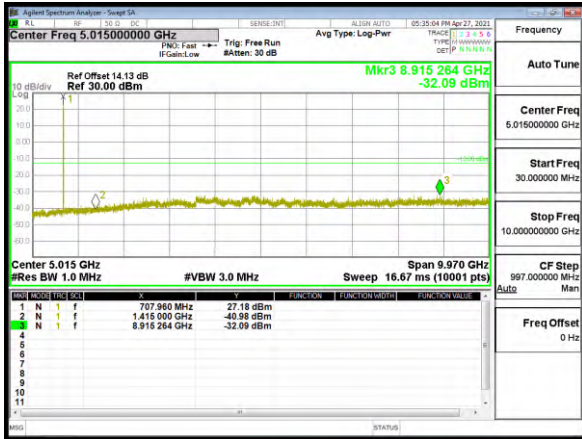
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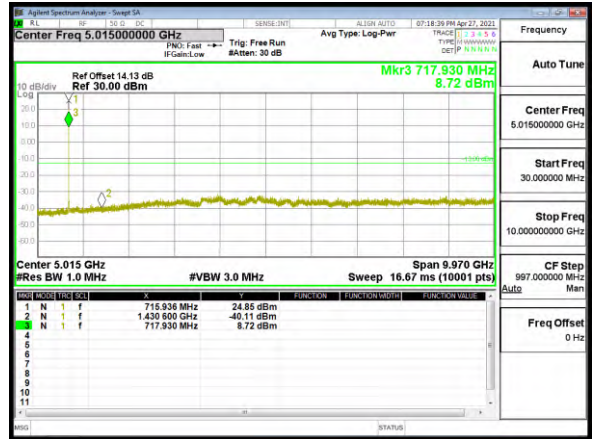
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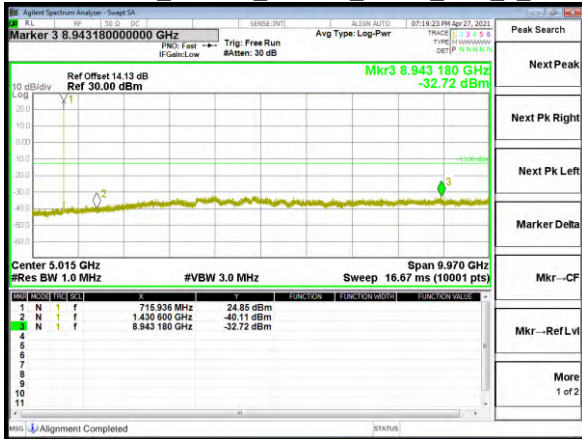
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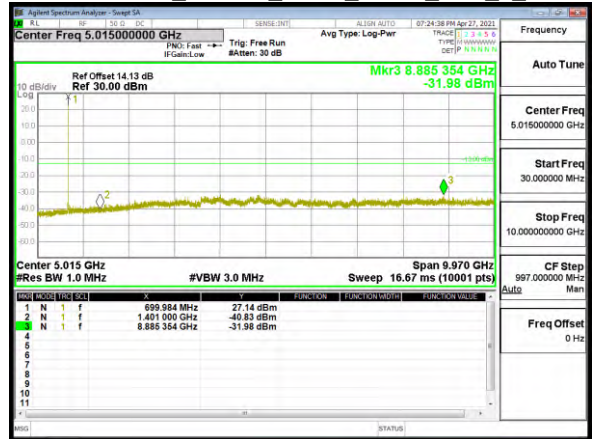
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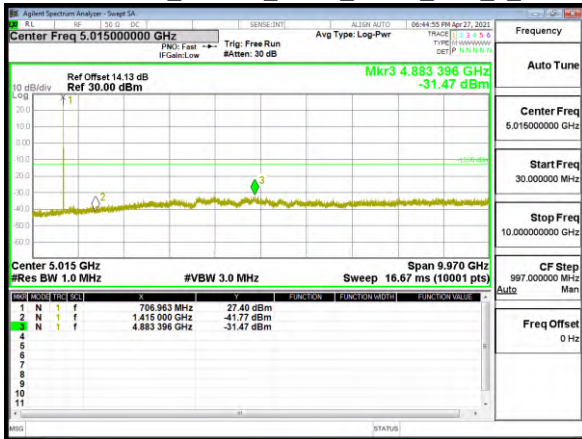


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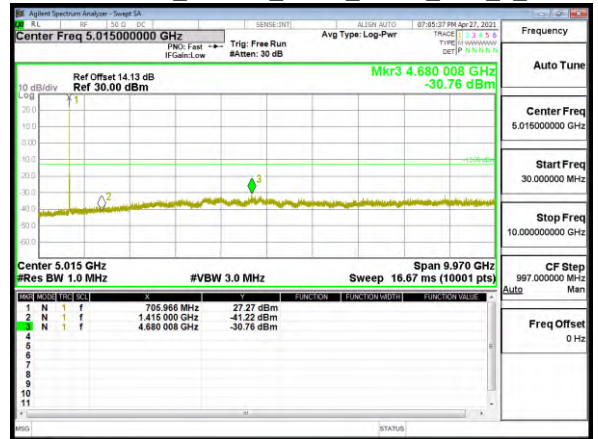
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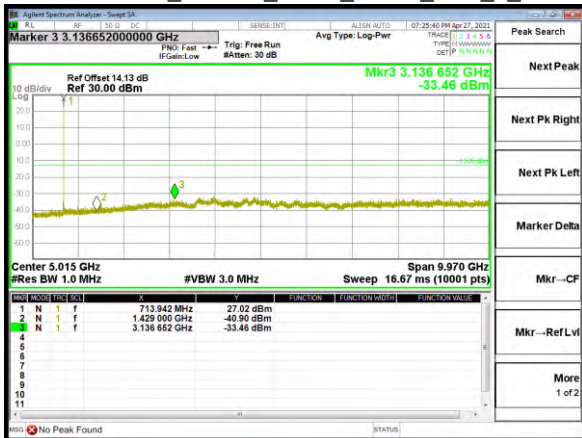
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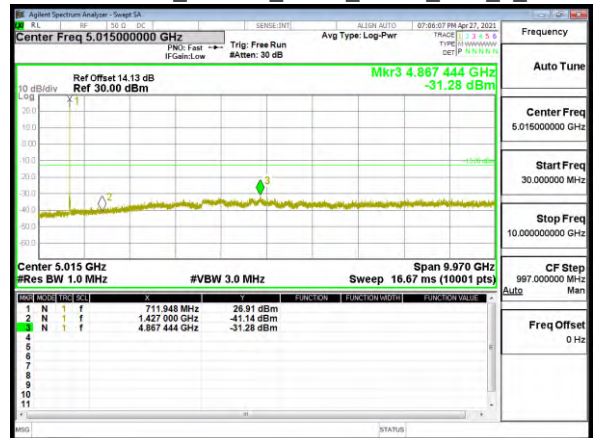
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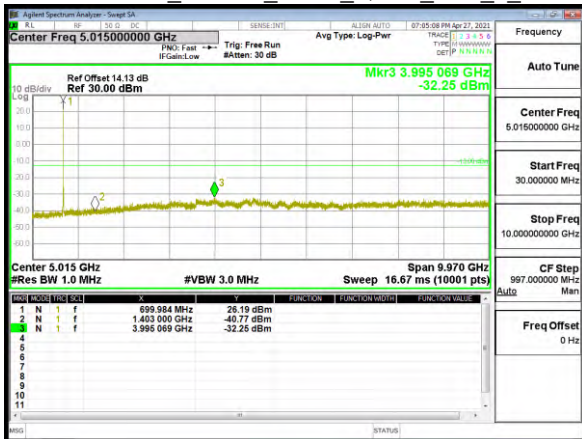
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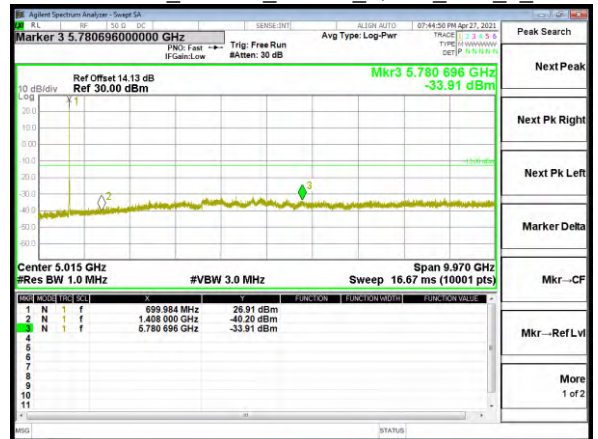
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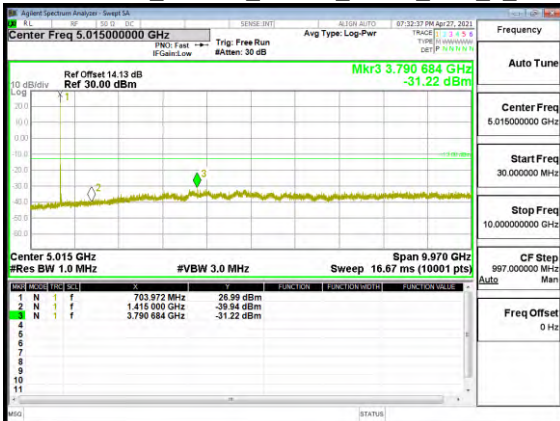


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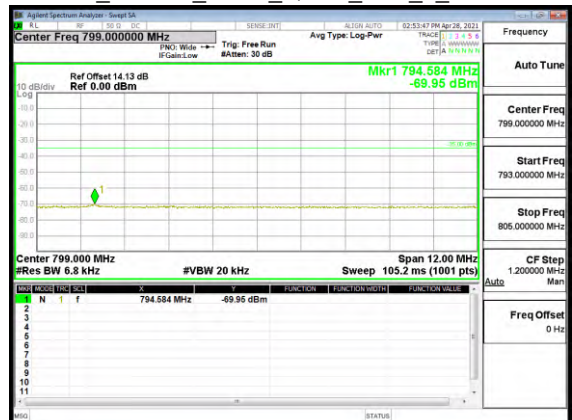
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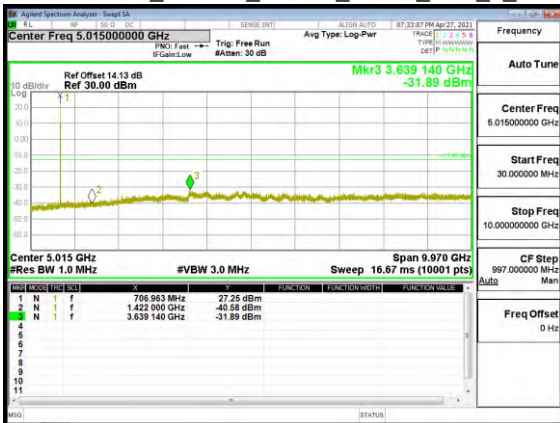
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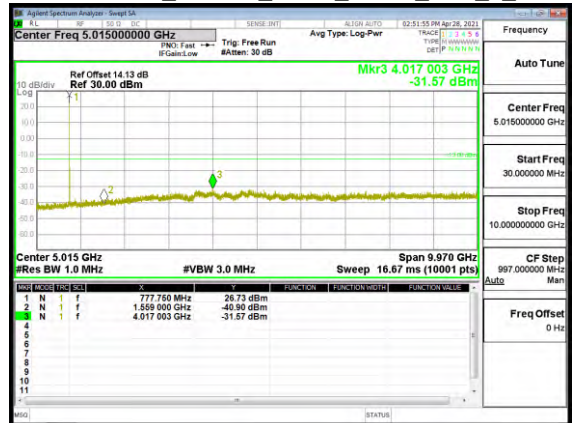
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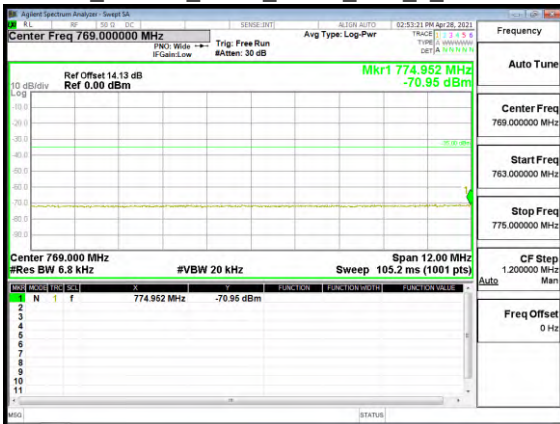
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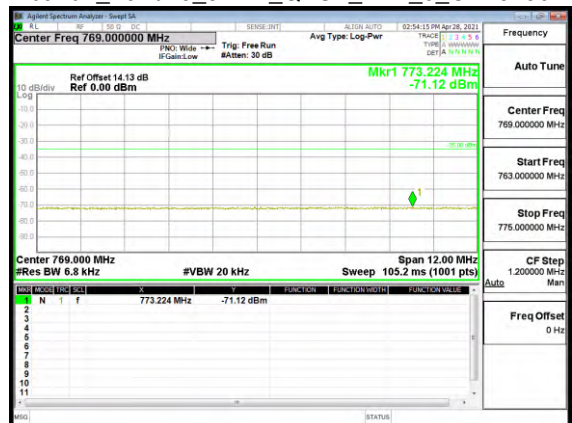
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Spurious Emission In-band1_Band13_5MHz_QPSK_RB1_0_CH23205



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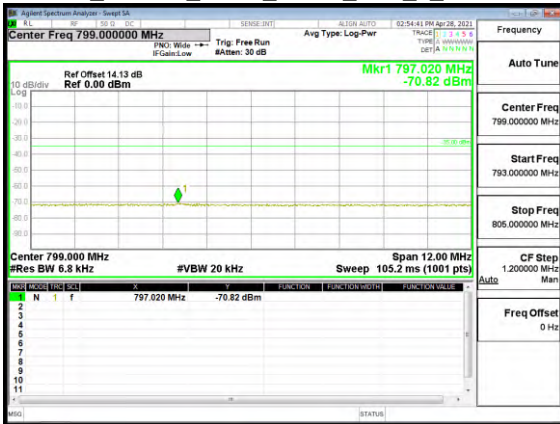


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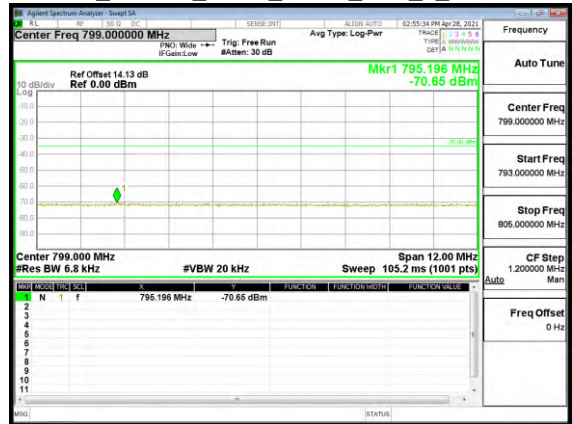
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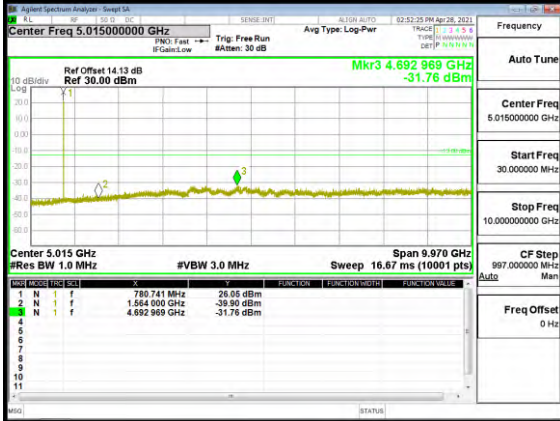
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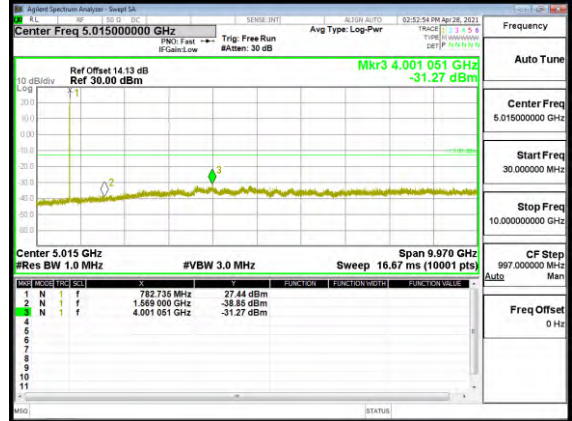
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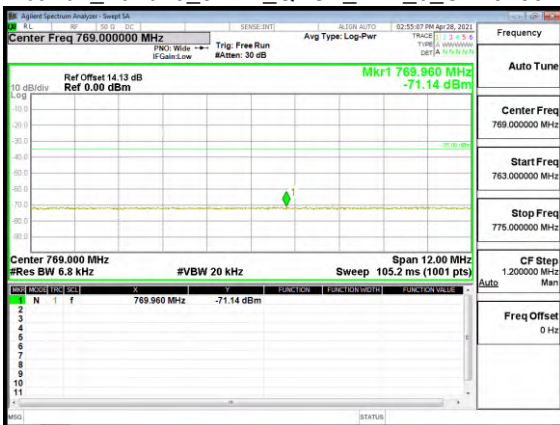
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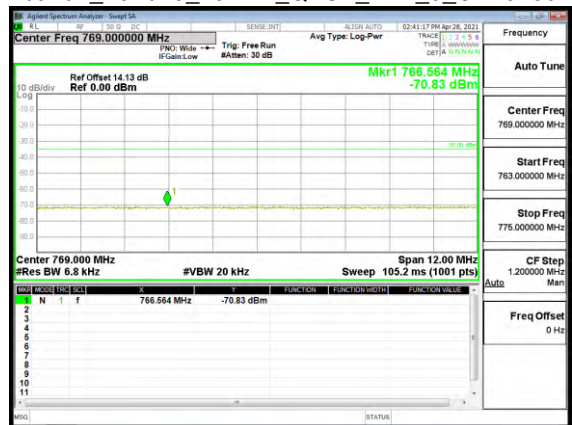
Spurious Emission_Band13_5MHz_QPSK_RB1_0_CH23255



Spurious Emission In-band1_Band13_5MHz_QPSK_RB1_0_CH23255



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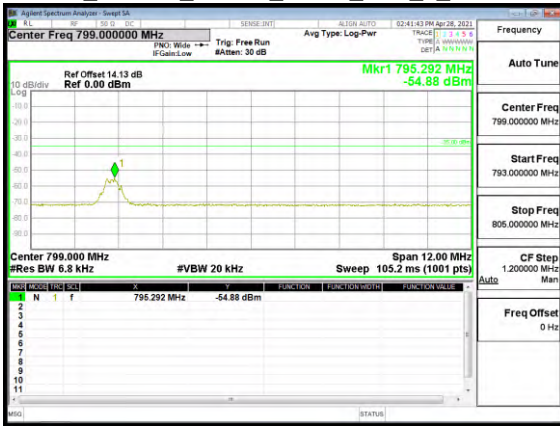


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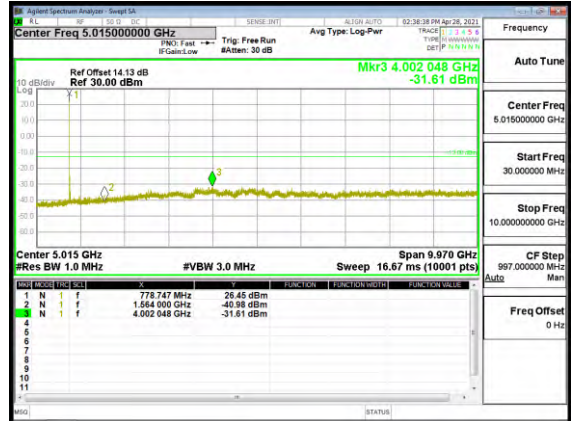
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Spurious Emission In-band2_Band13_10MHz_QPSK_RB1_0_CH23230



Spurious Emission_Band13_10MHz_QPSK_RB1_0_CH23230



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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

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)

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

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 $43 + 10 \log_{10} p$ (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.

RSS-130 §4.7.2

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions: the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

FCC §27.53(h)(1)

(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.

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ISED RSS-132 §5.5

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 $43 + 10 \log_{10} p$ (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 $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

ISED RSS-133 §6.5.1

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 $43 + 10 \log_{10} p$ (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 $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS-139 §6.6

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 $43 + 10 \log_{10} p$ (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 $43 + 10 \log_{10} p$ (watts) dB.

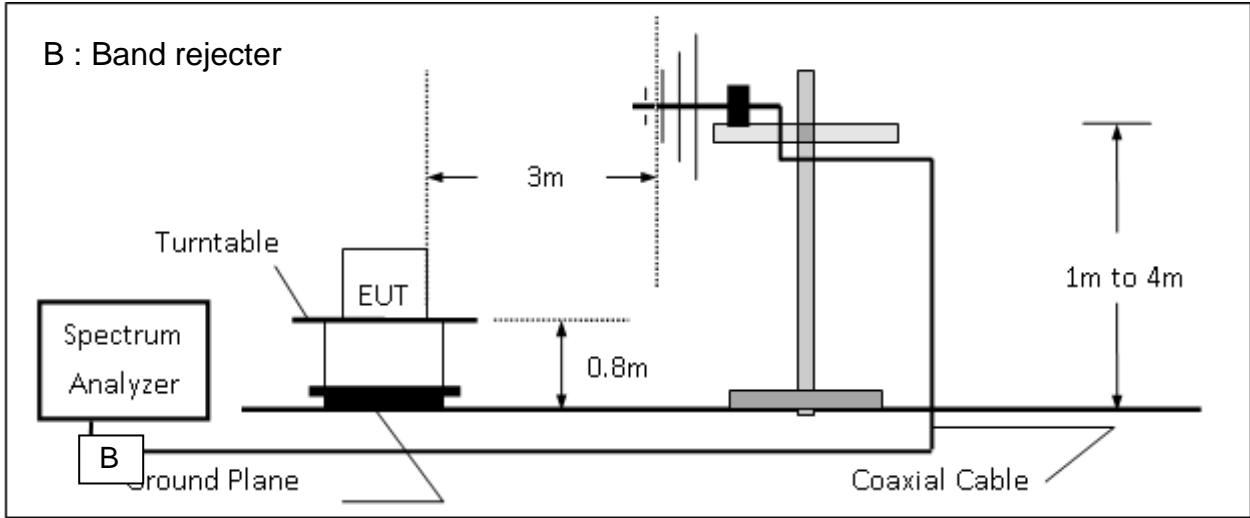
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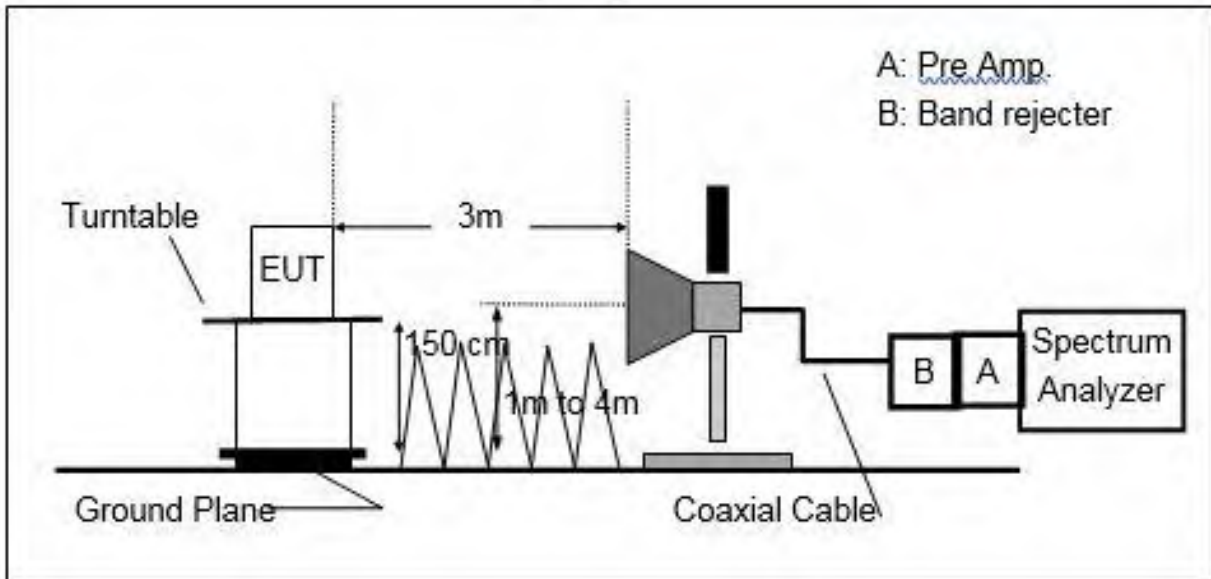
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9.2 EUT Setup

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.

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

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

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9.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	10/16/2020	10/15/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Bi-log Antenna	SCHWAZBECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/29/2020	04/28/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Signal Generator	Agilent	N5183A	MY50140591	12/27/2020	12/26/2021
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Filter 2240-2700	Micro-Tronics	WI	2	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	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	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
Radio Communication Analyser	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Radio Communication Analyser	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022

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Site Cal	SGS	SAC III chamber	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

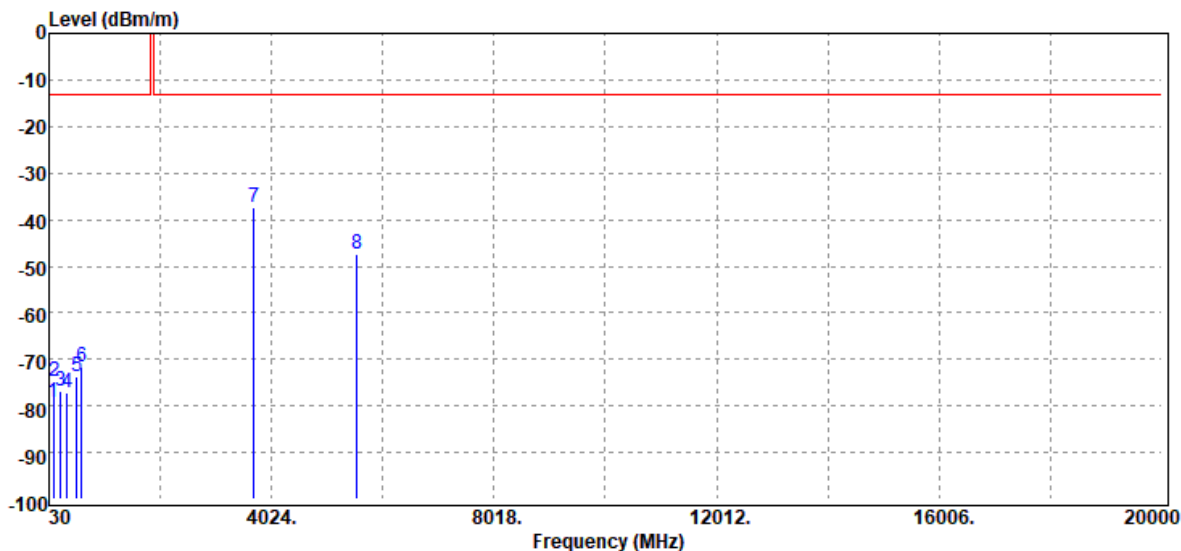
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9.5 Measurement Result:

Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1852.4 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-79.30	-76.58	-1.65	-1.07	-13.00	-66.30
125.06	-74.88	-71.85	-1.88	-1.15	-13.00	-61.88
240.49	-76.88	-79.65	4.38	-1.61	-13.00	-63.88
359.80	-77.08	-79.65	4.51	-1.94	-13.00	-64.08
534.40	-73.78	-75.87	4.24	-2.15	-13.00	-60.78
614.91	-71.79	-72.85	3.46	-2.40	-13.00	-58.79
3704.80	-37.28	-42.06	12.31	-7.53	-13.00	-24.28
5557.20	-47.26	-50.62	12.91	-9.55	-13.00	-34.26

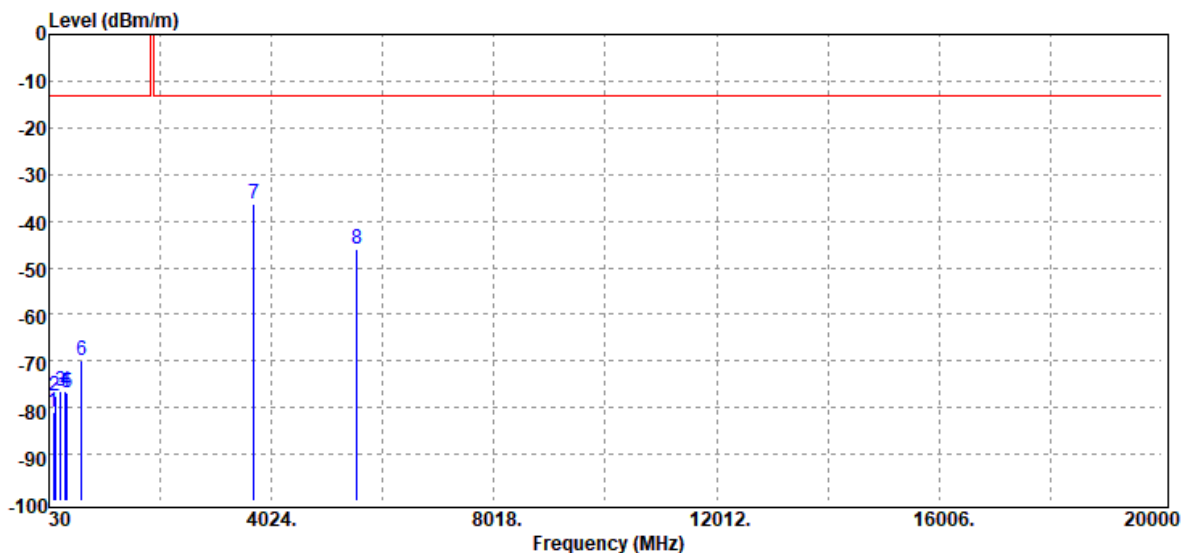
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1852.4 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-81.00	-78.67	-1.30	-1.03	-13.00	-68.00
131.85	-77.36	-74.07	-2.09	-1.20	-13.00	-64.36
243.40	-76.49	-79.25	4.37	-1.61	-13.00	-63.49
325.85	-76.33	-78.74	4.22	-1.81	-13.00	-63.33
357.86	-76.66	-79.20	4.50	-1.96	-13.00	-63.66
618.79	-70.03	-71.15	3.43	-2.31	-13.00	-57.03
3704.80	-36.20	-40.98	12.31	-7.53	-13.00	-23.20
5557.20	-46.11	-49.47	12.91	-9.55	-13.00	-33.11

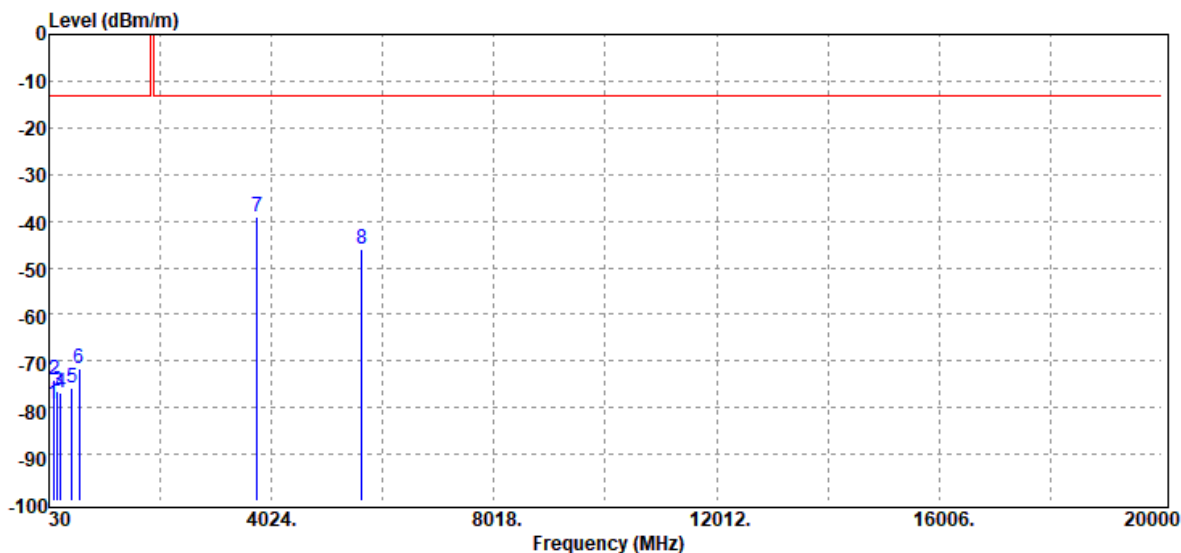
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.18	-76.62	-1.50	-1.06	-13.00	-66.18
125.06	-74.06	-71.03	-1.88	-1.15	-13.00	-61.06
180.35	-76.54	-76.63	1.47	-1.38	-13.00	-63.54
240.49	-76.89	-79.66	4.38	-1.61	-13.00	-63.89
447.10	-75.70	-77.66	4.15	-2.19	-13.00	-62.70
576.11	-71.48	-72.78	3.97	-2.67	-13.00	-58.48
3760.00	-39.05	-43.82	12.40	-7.63	-13.00	-26.05
5640.00	-46.17	-49.94	13.00	-9.23	-13.00	-33.17

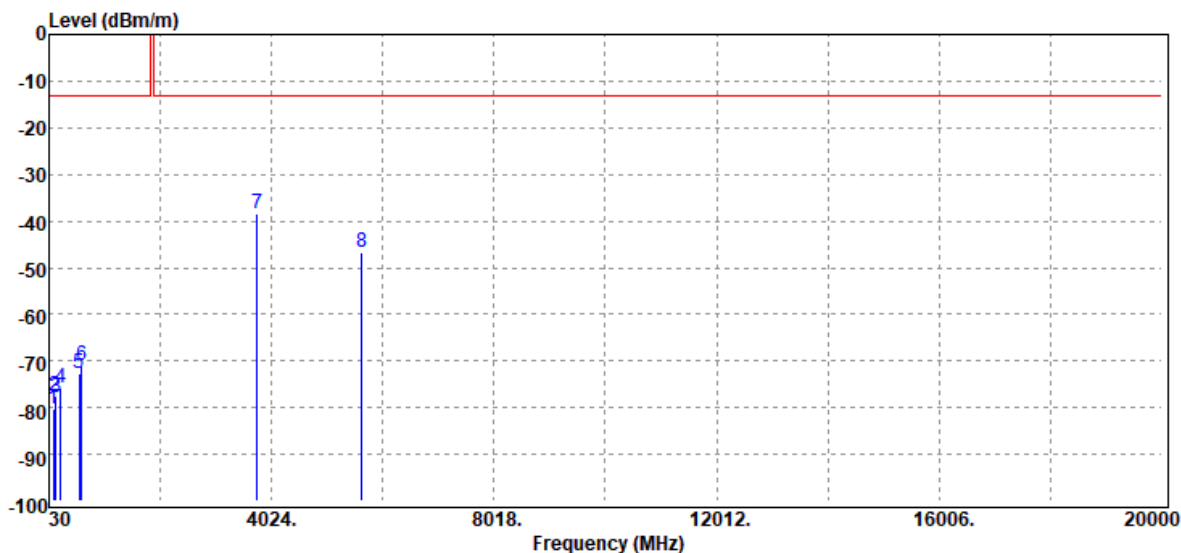
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-80.42	-78.09	-1.30	-1.03	-13.00	-67.42
133.79	-77.44	-74.16	-2.05	-1.23	-13.00	-64.44
149.31	-77.83	-75.04	-1.64	-1.15	-13.00	-64.83
240.49	-75.89	-78.66	4.38	-1.61	-13.00	-62.89
568.35	-72.66	-74.15	4.11	-2.62	-13.00	-59.66
613.94	-71.05	-72.09	3.46	-2.42	-13.00	-58.05
3760.00	-38.49	-43.26	12.40	-7.63	-13.00	-25.49
5640.00	-46.83	-50.60	13.00	-9.23	-13.00	-33.83

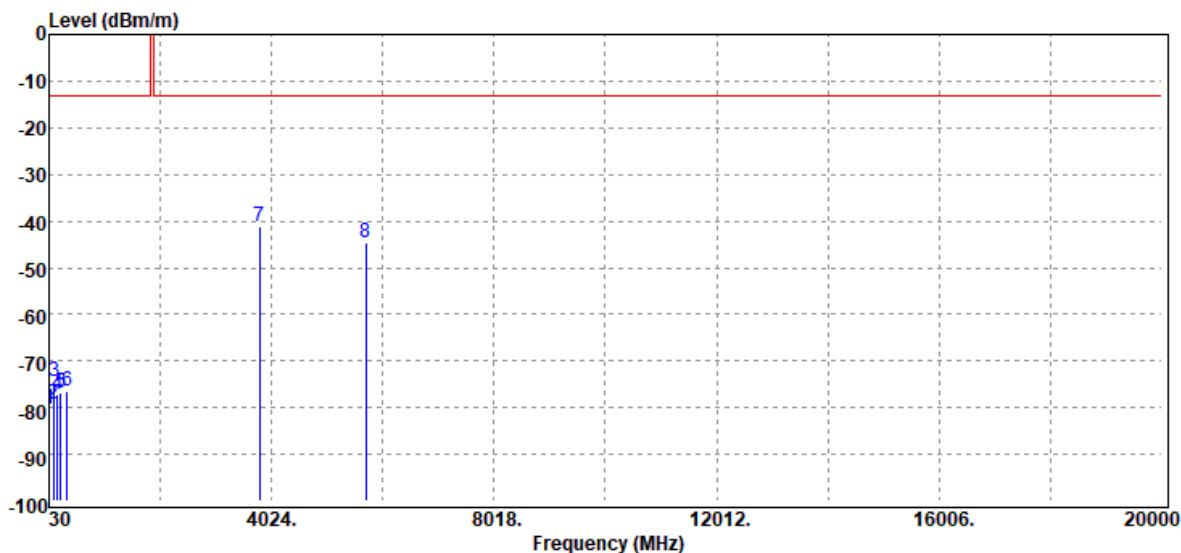
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-80.34	-66.36	-13.29	-0.69	-13.00	-67.34
110.51	-79.18	-76.62	-1.50	-1.06	-13.00	-66.18
125.06	-74.52	-71.49	-1.88	-1.15	-13.00	-61.52
177.44	-77.05	-76.61	0.91	-1.35	-13.00	-64.05
240.49	-76.65	-79.42	4.38	-1.61	-13.00	-63.65
359.80	-76.57	-79.14	4.51	-1.94	-13.00	-63.57
3815.20	-41.14	-45.85	12.37	-7.66	-13.00	-28.14
5722.80	-44.48	-48.23	12.80	-9.05	-13.00	-31.48

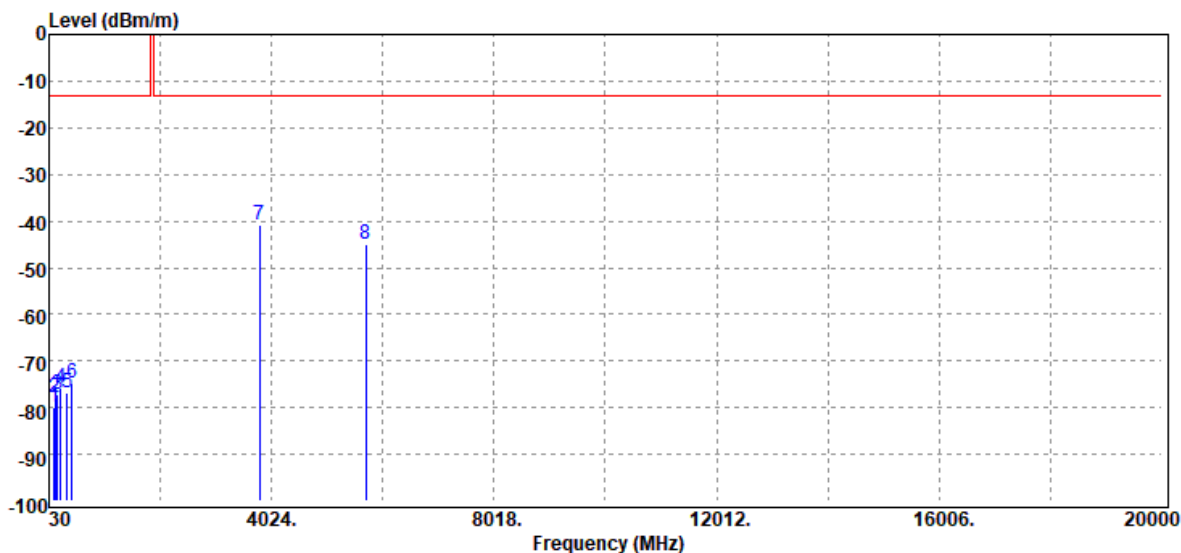
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-80.07	-77.07	-1.85	-1.15	-13.00	-67.07
133.79	-77.84	-74.56	-2.05	-1.23	-13.00	-64.84
182.29	-77.06	-77.59	1.92	-1.39	-13.00	-64.06
241.46	-75.67	-78.44	4.38	-1.61	-13.00	-62.67
359.80	-76.70	-79.27	4.51	-1.94	-13.00	-63.70
445.16	-74.81	-76.76	4.15	-2.20	-13.00	-61.81
3815.20	-40.77	-45.48	12.37	-7.66	-13.00	-27.77
5722.80	-45.09	-48.84	12.80	-9.05	-13.00	-32.09

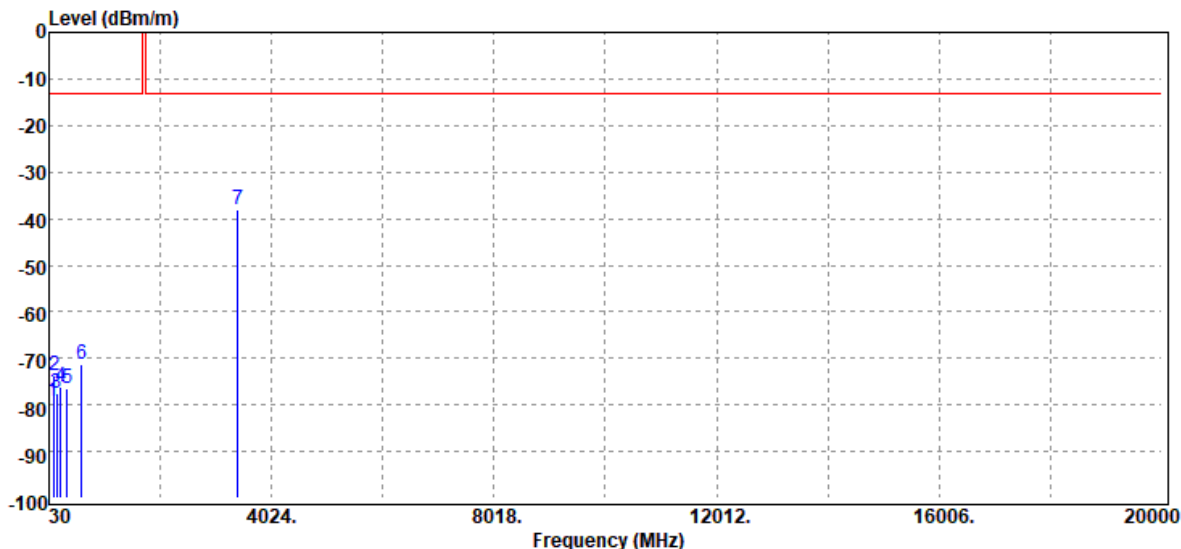
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1712.4 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.32	-76.76	-1.50	-1.06	-13.00	-66.32
125.06	-73.71	-70.68	-1.88	-1.15	-13.00	-60.71
173.56	-77.34	-76.21	0.18	-1.31	-13.00	-64.34
239.52	-76.30	-79.09	4.40	-1.61	-13.00	-63.30
356.89	-76.55	-79.07	4.49	-1.97	-13.00	-63.55
613.94	-71.44	-72.48	3.46	-2.42	-13.00	-58.44
3424.80	-38.20	-44.90	12.55	-5.85	-13.00	-25.20

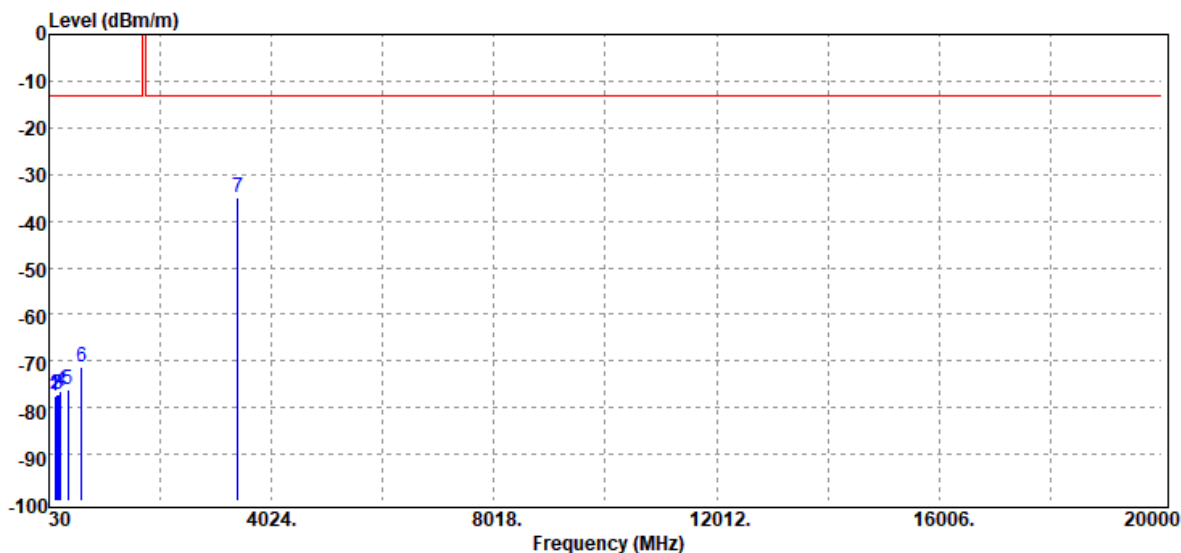
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1712.4 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-77.56	-74.28	-2.05	-1.23	-13.00	-64.56
167.74	-77.22	-75.41	-0.55	-1.26	-13.00	-64.22
191.99	-77.19	-79.30	3.54	-1.43	-13.00	-64.19
240.49	-76.50	-79.27	4.38	-1.61	-13.00	-63.50
364.65	-76.26	-78.73	4.43	-1.96	-13.00	-63.26
612.00	-71.32	-72.33	3.47	-2.46	-13.00	-58.32
3424.80	-34.95	-41.65	12.55	-5.85	-13.00	-21.95

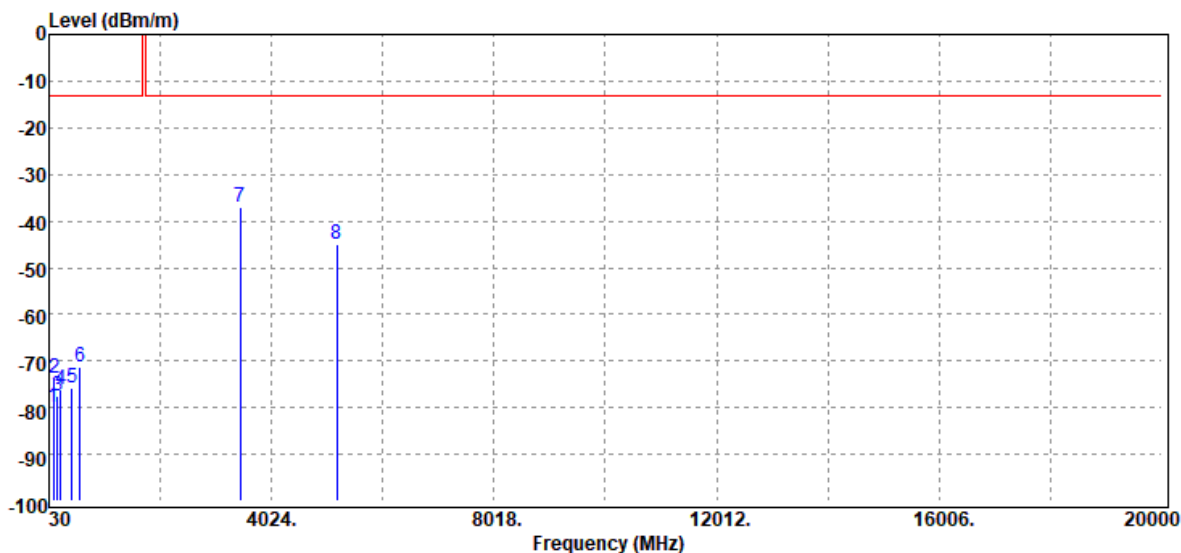
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.4 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-79.77	-77.18	-1.52	-1.07	-13.00	-66.77
125.06	-73.59	-70.56	-1.88	-1.15	-13.00	-60.59
180.35	-77.55	-77.64	1.47	-1.38	-13.00	-64.55
241.46	-76.10	-78.87	4.38	-1.61	-13.00	-63.10
447.10	-75.78	-77.74	4.15	-2.19	-13.00	-62.78
587.75	-71.16	-72.31	3.81	-2.66	-13.00	-58.16
3464.80	-37.03	-43.40	12.47	-6.10	-13.00	-24.03
5197.20	-44.84	-49.34	12.38	-7.88	-13.00	-31.84

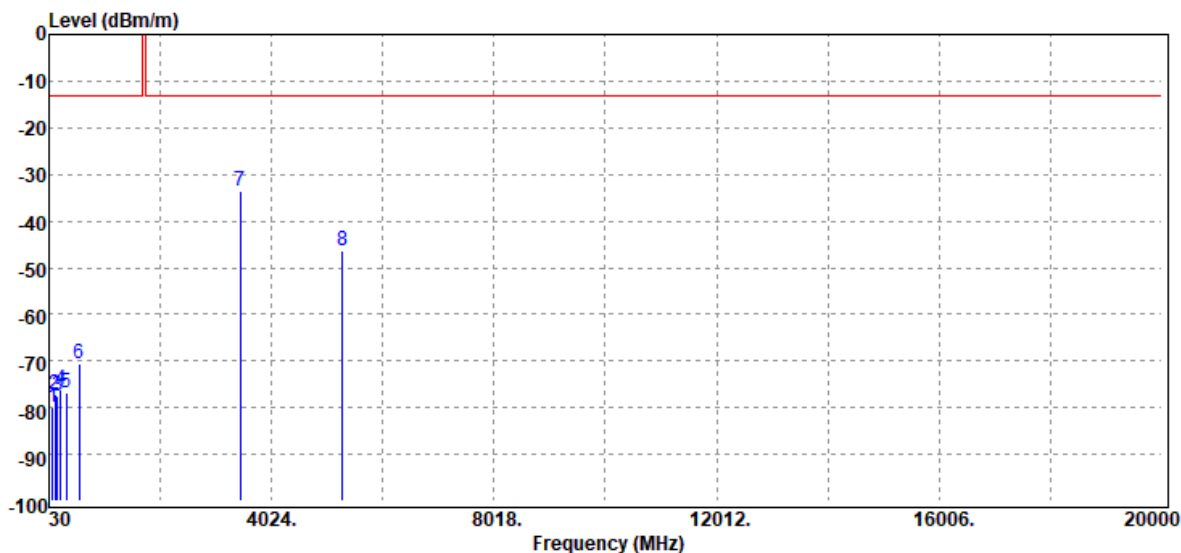
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.4 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-79.98	-78.37	-0.60	-1.01	-13.00	-66.98
132.82	-77.00	-73.82	-1.97	-1.21	-13.00	-64.00
180.35	-77.50	-77.59	1.47	-1.38	-13.00	-64.50
241.46	-75.99	-78.76	4.38	-1.61	-13.00	-62.99
340.40	-76.69	-79.12	4.32	-1.89	-13.00	-63.69
566.41	-70.63	-72.12	4.11	-2.62	-13.00	-57.63
3464.80	-33.47	-39.84	12.47	-6.10	-13.00	-20.47
5297.20	-46.50	-51.30	12.99	-8.19	-13.00	-33.50

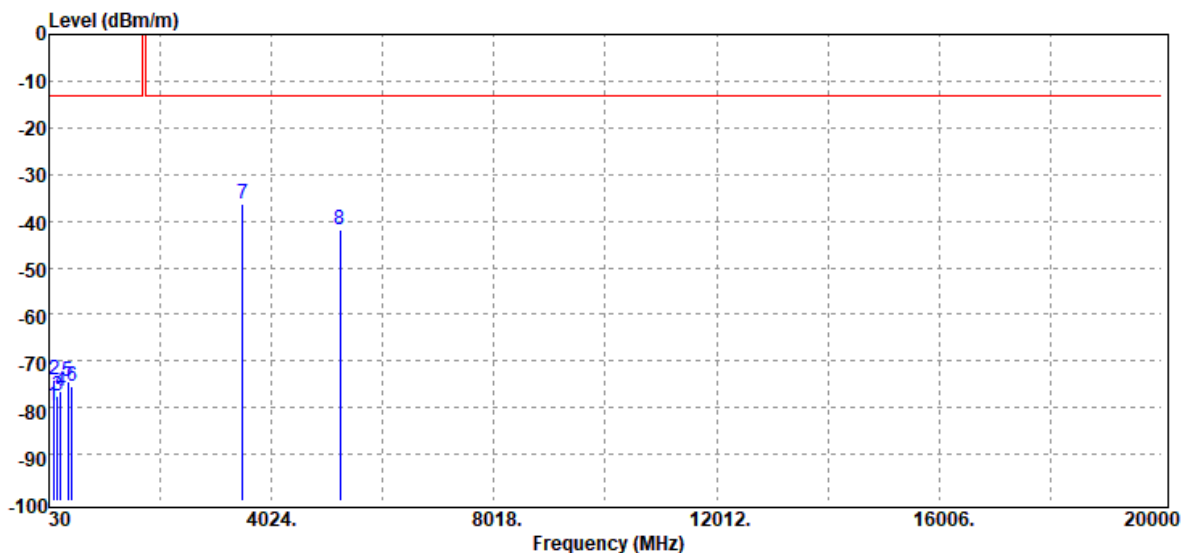
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1752.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.46	-76.90	-1.50	-1.06	-13.00	-66.46
125.06	-74.21	-71.18	-1.88	-1.15	-13.00	-61.21
182.29	-77.64	-78.17	1.92	-1.39	-13.00	-64.64
241.46	-76.47	-79.24	4.38	-1.61	-13.00	-63.47
367.56	-74.46	-76.86	4.38	-1.98	-13.00	-61.46
445.16	-75.57	-77.52	4.15	-2.20	-13.00	-62.57
3505.20	-36.16	-42.22	12.40	-6.34	-13.00	-23.16
5257.80	-42.01	-46.78	12.83	-8.06	-13.00	-29.01

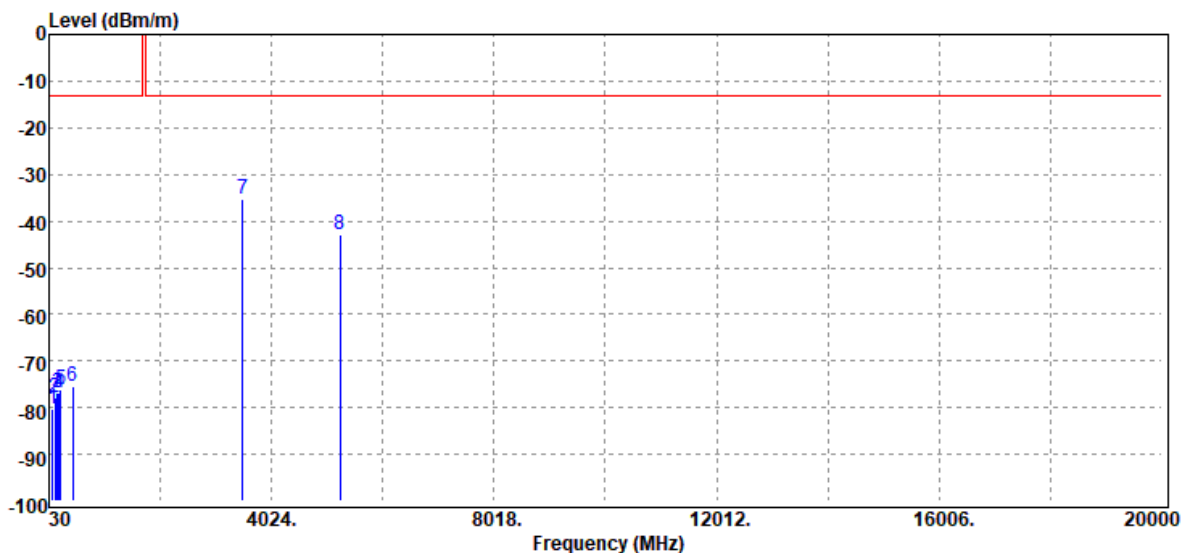
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1752.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



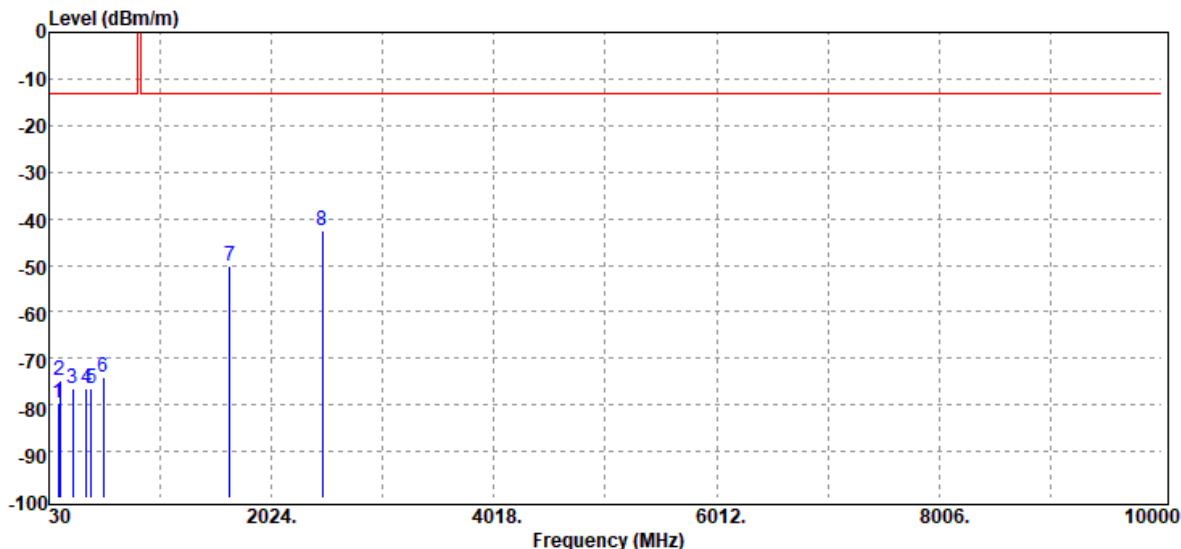
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-80.33	-78.53	-0.79	-1.01	-13.00	-67.33
133.79	-77.73	-74.45	-2.05	-1.23	-13.00	-64.73
180.35	-76.66	-76.75	1.47	-1.38	-13.00	-63.66
204.60	-76.98	-80.03	4.50	-1.45	-13.00	-63.98
240.49	-76.23	-79.00	4.38	-1.61	-13.00	-63.23
456.80	-75.46	-77.29	4.14	-2.31	-13.00	-62.46
3505.20	-35.43	-41.49	12.40	-6.34	-13.00	-22.43
5257.80	-42.82	-47.59	12.83	-8.06	-13.00	-29.82

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B5	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:826.4 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.45	-76.89	-1.50	-1.06	-13.00	-66.45
125.06	-74.77	-71.74	-1.88	-1.15	-13.00	-61.77
240.49	-76.63	-79.40	4.38	-1.61	-13.00	-63.63
364.65	-76.38	-78.85	4.43	-1.96	-13.00	-63.38
410.24	-76.32	-78.91	4.43	-1.84	-13.00	-63.32
516.94	-73.90	-75.86	4.11	-2.15	-13.00	-60.90
1652.80	-50.24	-55.49	9.51	-4.26	-13.00	-37.24
2479.20	-42.69	-48.08	10.56	-5.17	-13.00	-29.69

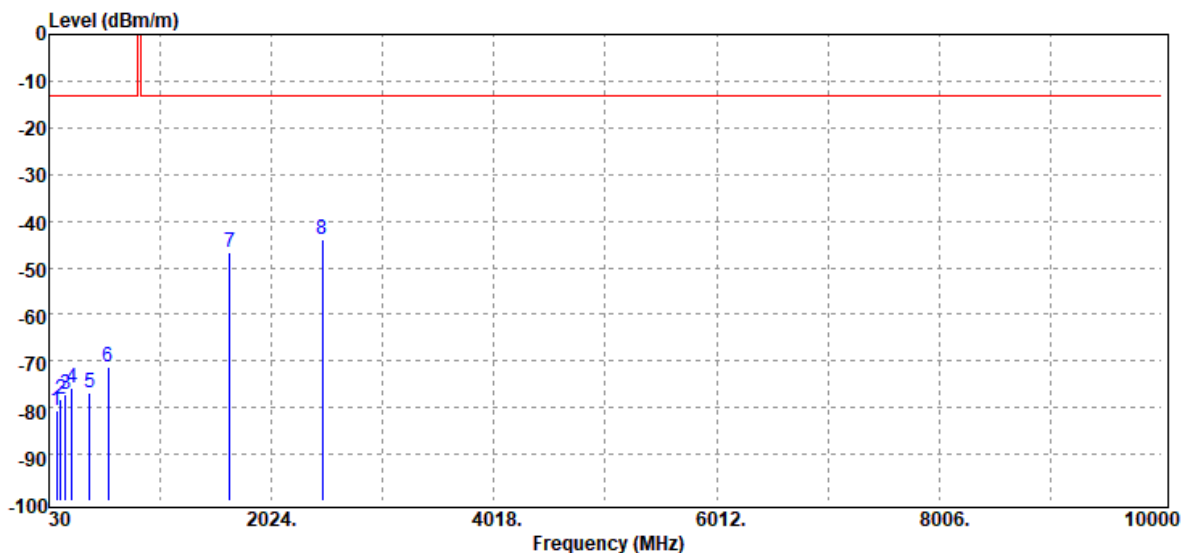
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :826.4 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-80.74	-78.89	-0.83	-1.02	-13.00	-67.74
133.79	-78.24	-74.96	-2.05	-1.23	-13.00	-65.24
175.50	-77.13	-76.27	0.47	-1.33	-13.00	-64.13
238.55	-75.95	-78.76	4.42	-1.61	-13.00	-62.95
391.81	-76.72	-79.03	4.37	-2.06	-13.00	-63.72
563.50	-71.22	-72.76	4.16	-2.62	-13.00	-58.22
1652.80	-46.62	-51.87	9.51	-4.26	-13.00	-33.62
2479.20	-43.84	-49.23	10.56	-5.17	-13.00	-30.84

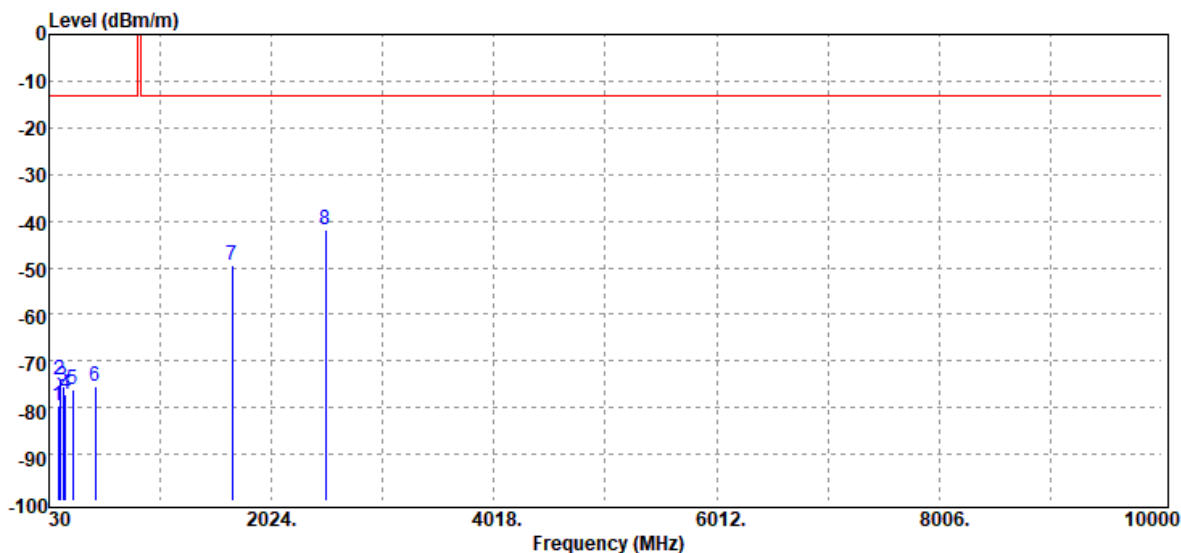
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.53	-76.97	-1.50	-1.06	-13.00	-66.53
125.06	-74.19	-71.16	-1.88	-1.15	-13.00	-61.19
159.01	-75.38	-72.85	-1.29	-1.24	-13.00	-62.38
178.41	-77.22	-76.95	1.09	-1.36	-13.00	-64.22
240.49	-76.00	-78.77	4.38	-1.61	-13.00	-63.00
442.25	-75.59	-77.47	4.09	-2.21	-13.00	-62.59
1673.20	-49.63	-54.89	9.55	-4.29	-13.00	-36.63
2509.80	-41.99	-47.41	10.62	-5.20	-13.00	-28.99

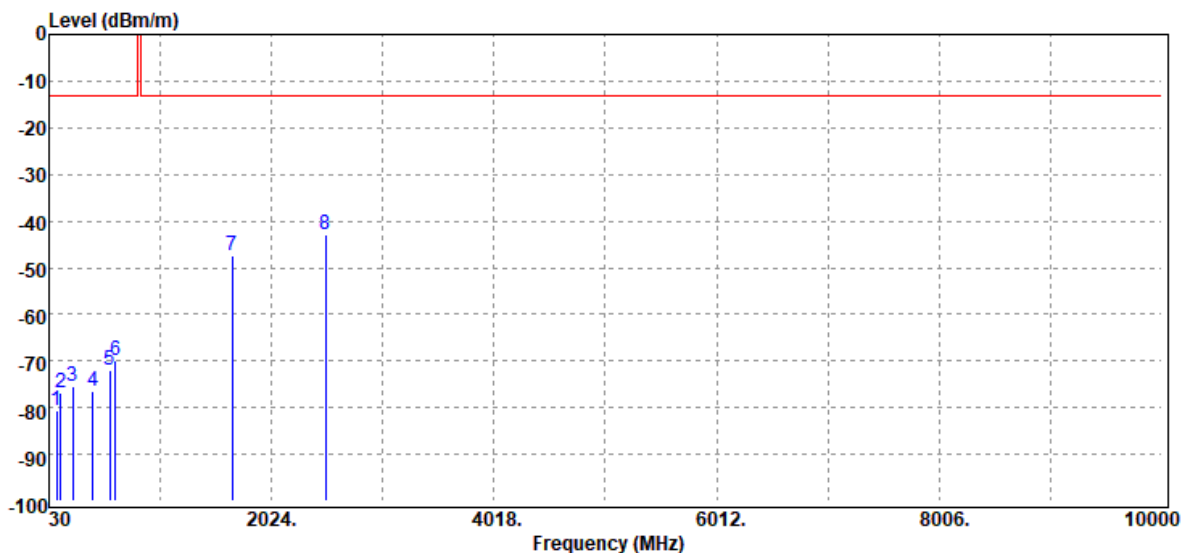
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-80.73	-79.12	-0.60	-1.01	-13.00	-67.73
133.79	-76.77	-73.49	-2.05	-1.23	-13.00	-63.77
241.46	-75.49	-78.26	4.38	-1.61	-13.00	-62.49
422.85	-76.41	-78.62	4.13	-1.92	-13.00	-63.41
573.20	-72.10	-73.47	4.02	-2.65	-13.00	-59.10
621.70	-70.06	-71.20	3.45	-2.31	-13.00	-57.06
1673.20	-47.34	-52.60	9.55	-4.29	-13.00	-34.34
2509.80	-42.83	-48.25	10.62	-5.20	-13.00	-29.83

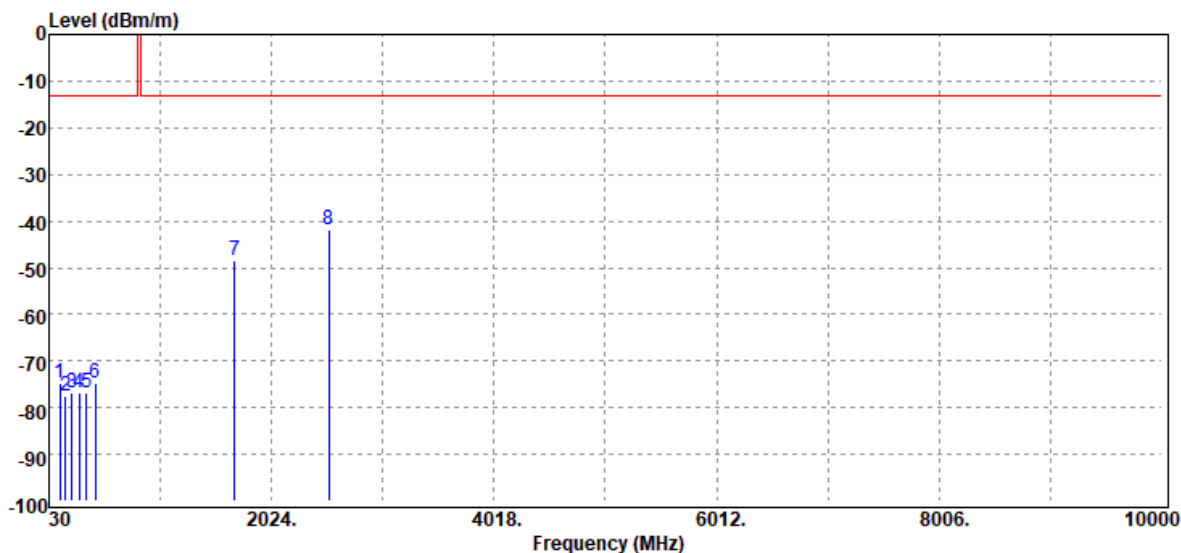
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B5
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :846.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.65	-71.62	-1.88	-1.15	-13.00	-61.65
180.35	-77.59	-77.68	1.47	-1.38	-13.00	-64.59
238.55	-76.71	-79.52	4.42	-1.61	-13.00	-63.71
301.60	-76.97	-79.43	4.24	-1.78	-13.00	-63.97
362.71	-76.69	-79.20	4.46	-1.95	-13.00	-63.69
447.10	-74.57	-76.53	4.15	-2.19	-13.00	-61.57
1693.20	-48.53	-53.80	9.59	-4.32	-13.00	-35.53
2539.80	-42.01	-47.46	10.68	-5.23	-13.00	-29.01

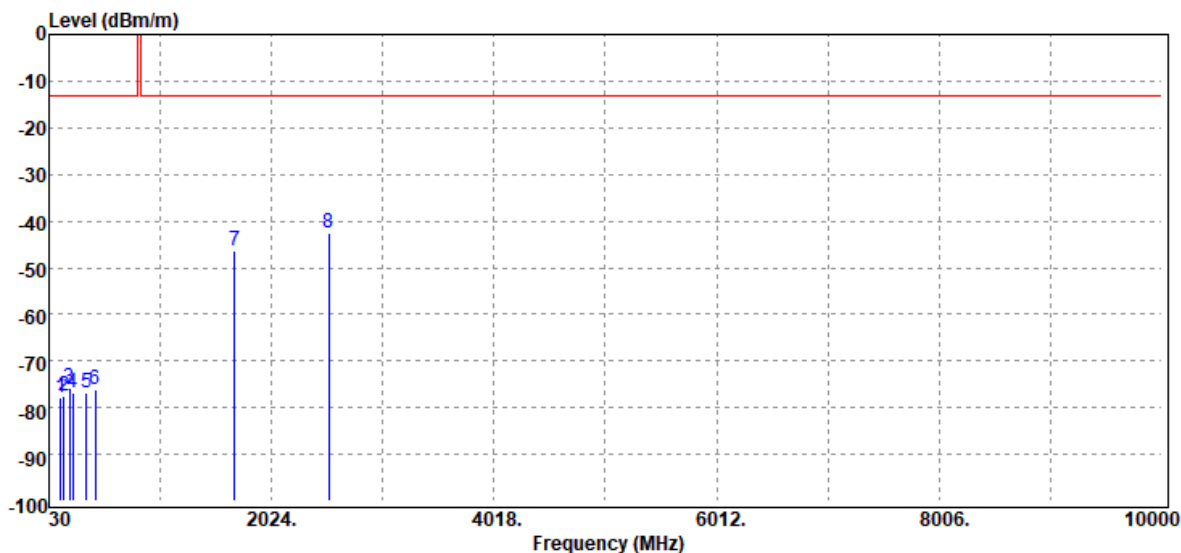
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Report Number :ER-2021-40008
 Operation Mode :WCDMA B5
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :846.6 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-78.02	-74.73	-2.09	-1.20	-13.00	-65.02
162.89	-77.58	-75.35	-0.98	-1.25	-13.00	-64.58
212.36	-75.63	-78.98	4.82	-1.47	-13.00	-62.63
241.46	-76.76	-79.53	4.38	-1.61	-13.00	-63.76
367.56	-76.81	-79.21	4.38	-1.98	-13.00	-63.81
445.16	-76.10	-78.05	4.15	-2.20	-13.00	-63.10
1693.20	-46.50	-51.77	9.59	-4.32	-13.00	-33.50
2539.80	-42.61	-48.06	10.68	-5.23	-13.00	-29.61

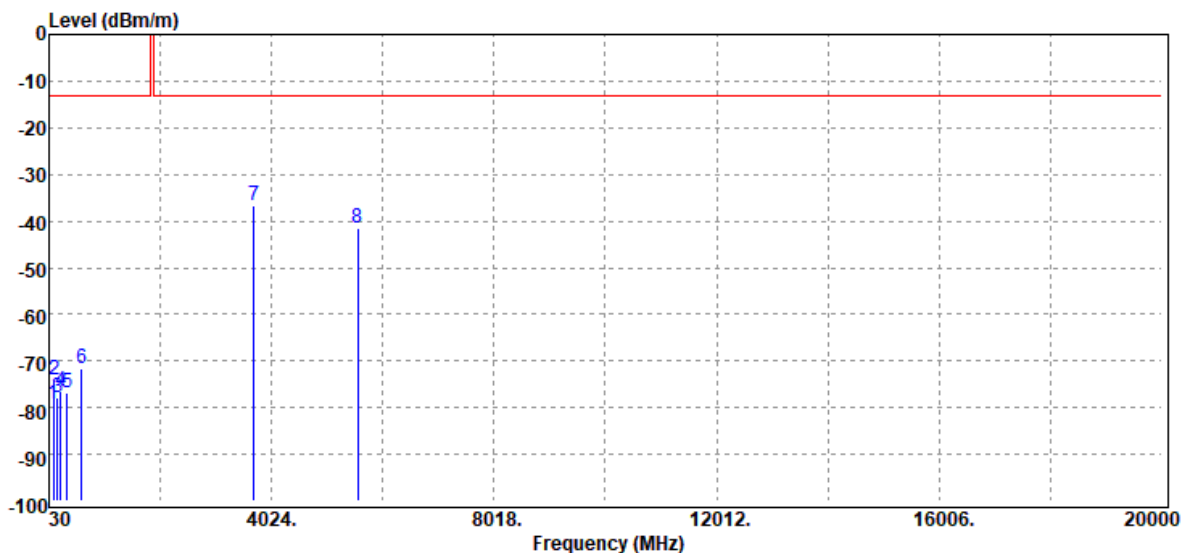
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Report Number :ER-2021-40008
 Operation Mode :LTE B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1855 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.34	-76.78	-1.50	-1.06	-13.00	-66.34
125.06	-74.22	-71.19	-1.88	-1.15	-13.00	-61.22
180.35	-77.72	-77.81	1.47	-1.38	-13.00	-64.72
240.49	-76.55	-79.32	4.38	-1.61	-13.00	-63.55
359.80	-76.89	-79.46	4.51	-1.94	-13.00	-63.89
619.76	-71.75	-72.89	3.43	-2.29	-13.00	-58.75
3710.00	-36.82	-41.60	12.32	-7.54	-13.00	-23.82
5565.00	-41.43	-44.86	12.93	-9.50	-13.00	-28.43

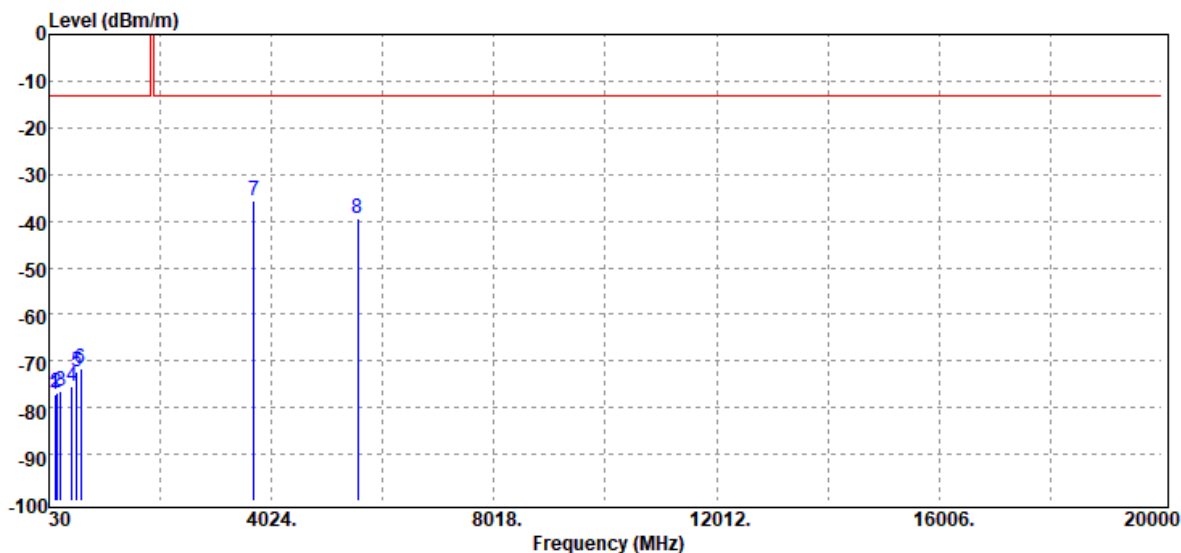
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Report Number :ER-2021-40008
 Operation Mode :LTE B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1855 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-77.13	-73.84	-2.09	-1.20	-13.00	-64.13
168.71	-76.88	-75.21	-0.41	-1.26	-13.00	-63.88
243.40	-76.38	-79.14	4.37	-1.61	-13.00	-63.38
447.10	-75.48	-77.44	4.15	-2.19	-13.00	-62.48
529.55	-72.31	-74.49	4.17	-1.99	-13.00	-59.31
607.15	-71.63	-72.65	3.56	-2.54	-13.00	-58.63
3710.00	-35.70	-40.48	12.32	-7.54	-13.00	-22.70
5565.00	-39.56	-42.99	12.93	-9.50	-13.00	-26.56

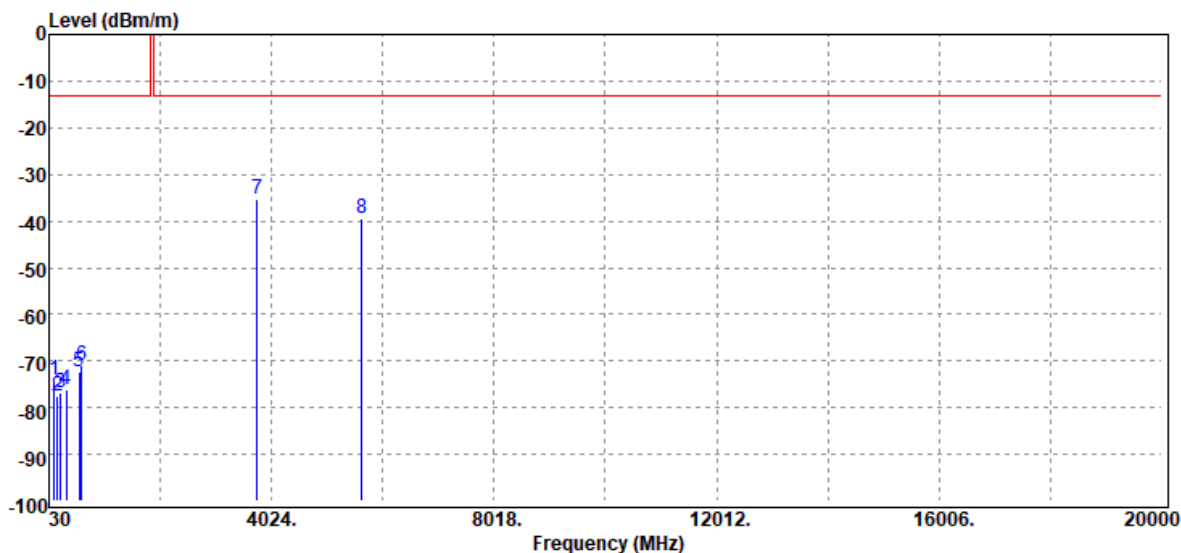
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Report Number :ER-2021-40008
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.14	-71.11	-1.88	-1.15	-13.00	-61.14
177.44	-77.66	-77.22	0.91	-1.35	-13.00	-64.66
246.31	-76.86	-79.62	4.36	-1.60	-13.00	-63.86
347.19	-76.26	-78.76	4.49	-1.99	-13.00	-63.26
573.20	-72.20	-73.57	4.02	-2.65	-13.00	-59.20
619.76	-71.10	-72.24	3.43	-2.29	-13.00	-58.10
3760.00	-35.40	-40.17	12.40	-7.63	-13.00	-22.40
5640.00	-39.35	-43.12	13.00	-9.23	-13.00	-26.35

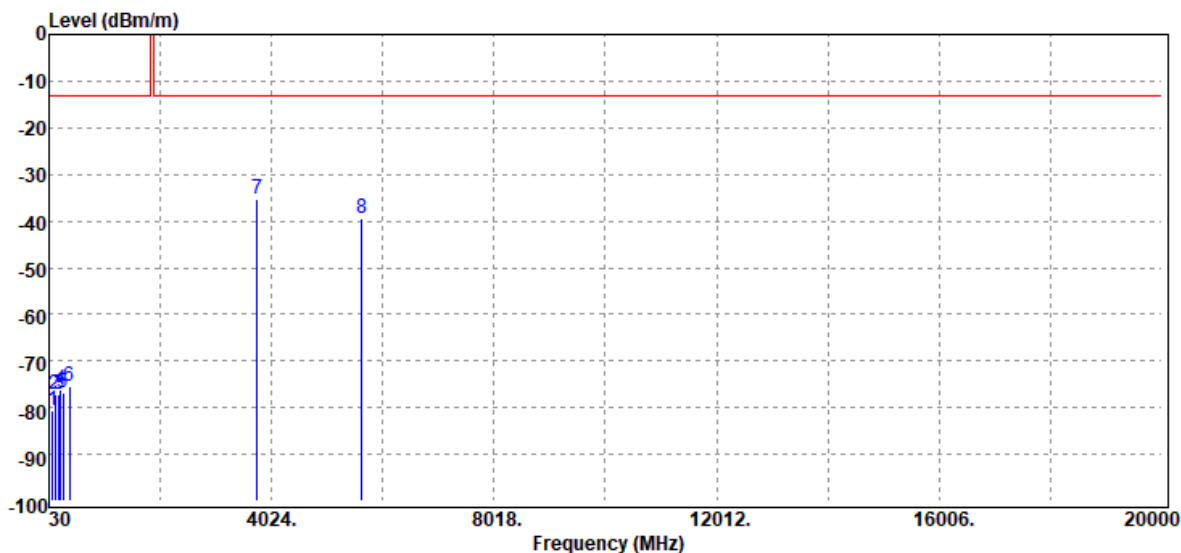
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Report Number :ER-2021-40008
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-80.78	-79.41	-0.37	-1.00	-13.00	-67.78
133.79	-77.17	-73.89	-2.05	-1.23	-13.00	-64.17
216.24	-77.21	-80.69	4.95	-1.47	-13.00	-64.21
240.49	-76.26	-79.03	4.38	-1.61	-13.00	-63.26
284.14	-76.78	-79.14	4.07	-1.71	-13.00	-63.78
400.54	-75.50	-77.70	4.32	-2.12	-13.00	-62.50
3760.00	-35.32	-40.09	12.40	-7.63	-13.00	-22.32
5640.00	-39.48	-43.25	13.00	-9.23	-13.00	-26.48

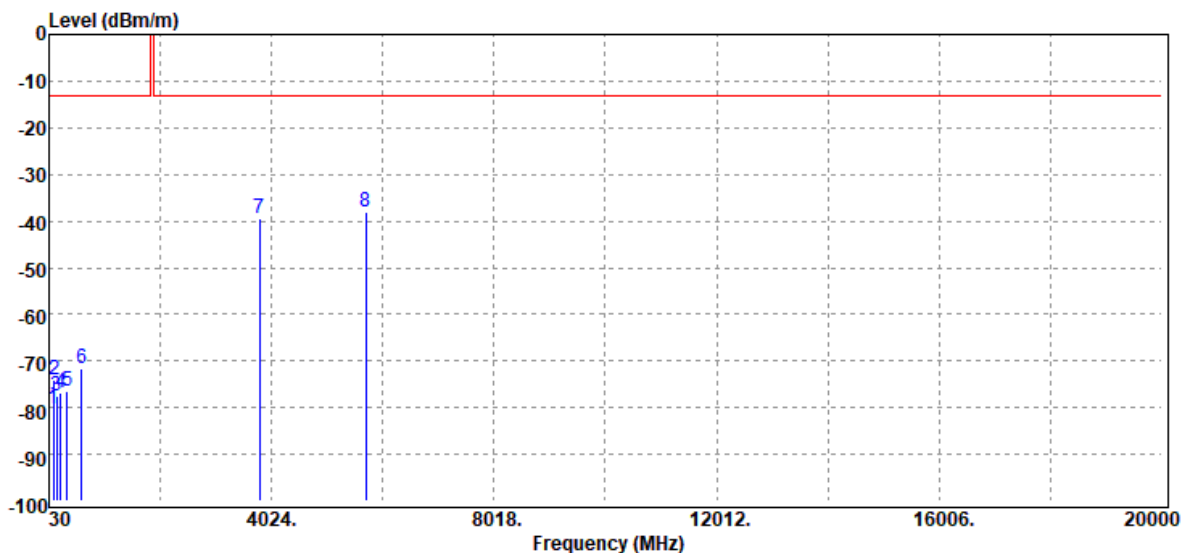
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Report Number :ER-2021-40008
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1905 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-80.32	-77.73	-1.52	-1.07	-13.00	-67.32
125.06	-74.18	-71.15	-1.88	-1.15	-13.00	-61.18
170.65	-77.53	-76.05	-0.21	-1.27	-13.00	-64.53
240.49	-76.83	-79.60	4.38	-1.61	-13.00	-63.83
359.80	-76.50	-79.07	4.51	-1.94	-13.00	-63.50
616.85	-71.55	-72.65	3.45	-2.35	-13.00	-58.55
3810.00	-39.46	-44.17	12.38	-7.67	-13.00	-26.46
5715.00	-38.21	-41.94	12.80	-9.07	-13.00	-25.21

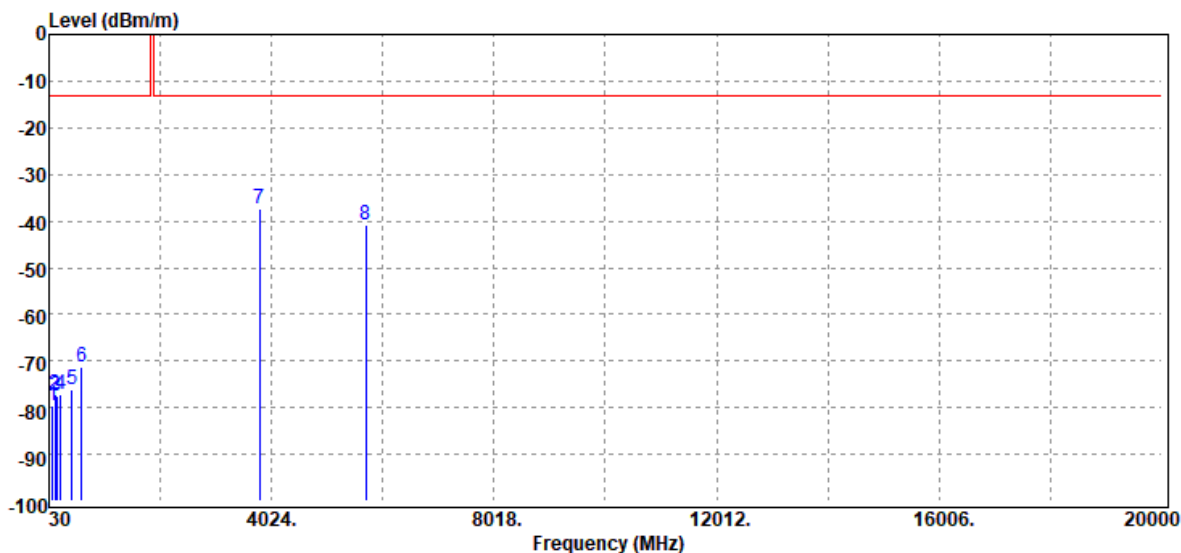
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Report Number :ER-2021-40008
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1905 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



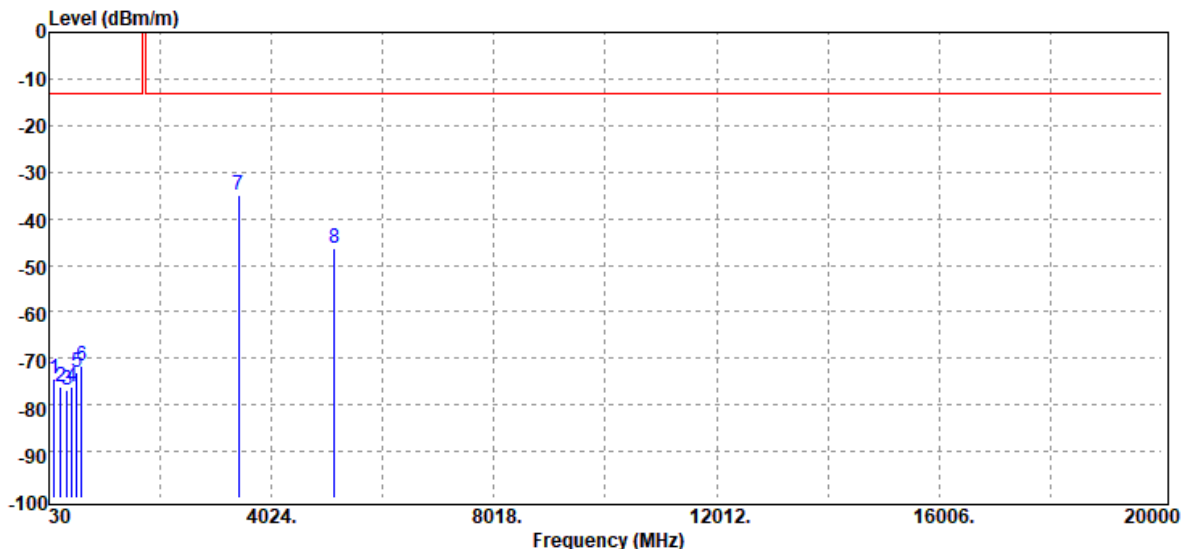
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-79.61	-78.33	-0.28	-1.00	-13.00	-66.61
131.85	-77.11	-73.82	-2.09	-1.20	-13.00	-64.11
170.65	-77.55	-76.07	-0.21	-1.27	-13.00	-64.55
240.49	-77.06	-79.83	4.38	-1.61	-13.00	-64.06
439.34	-76.29	-78.13	4.04	-2.20	-13.00	-63.29
612.00	-71.31	-72.32	3.47	-2.46	-13.00	-58.31
3810.00	-37.39	-42.10	12.38	-7.67	-13.00	-24.39
5715.00	-40.70	-44.43	12.80	-9.07	-13.00	-27.70

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Report Number	:ER-2021-40008	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2021-04-27
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/62
EUT Pol	:E2 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1717.5 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.30	-71.27	-1.88	-1.15	-13.00	-61.30
241.46	-76.29	-79.06	4.38	-1.61	-13.00	-63.29
359.80	-76.87	-79.44	4.51	-1.94	-13.00	-63.87
440.31	-76.15	-77.99	4.06	-2.22	-13.00	-63.15
532.46	-73.04	-75.18	4.21	-2.07	-13.00	-60.04
616.85	-71.53	-72.63	3.45	-2.35	-13.00	-58.53
3435.00	-34.87	-41.49	12.53	-5.91	-13.00	-21.87
5152.50	-46.54	-50.72	12.12	-7.94	-13.00	-33.54

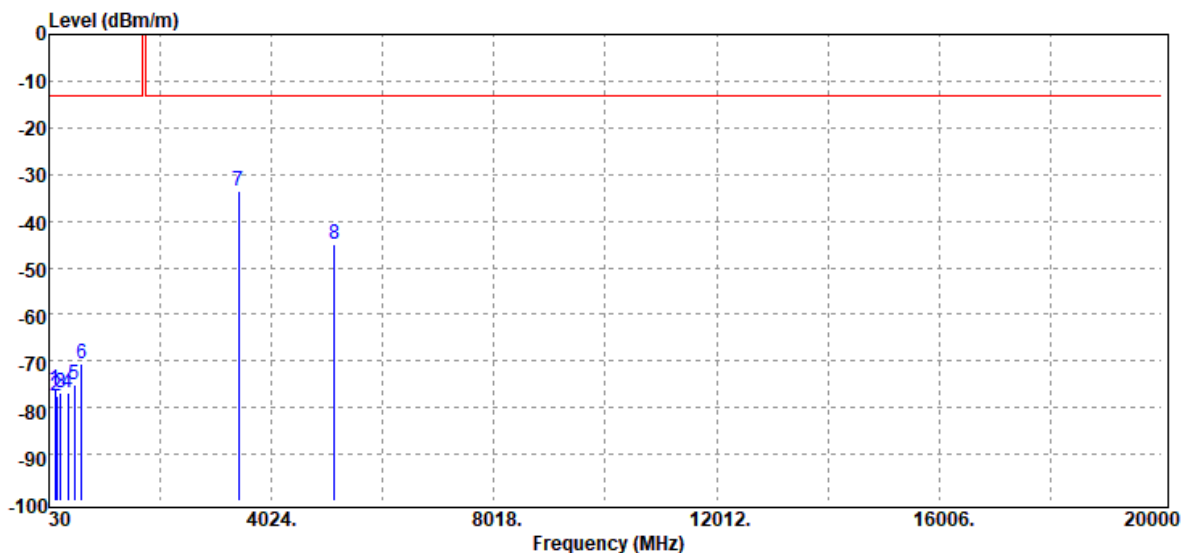
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Report Number :ER-2021-40008
 Operation Mode :LTE B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1717.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-76.27	-72.99	-2.05	-1.23	-13.00	-63.27
173.56	-77.60	-76.47	0.18	-1.31	-13.00	-64.60
236.61	-76.73	-79.58	4.46	-1.61	-13.00	-63.73
376.29	-76.68	-79.04	4.36	-2.00	-13.00	-63.68
488.81	-75.01	-77.03	4.29	-2.27	-13.00	-62.01
616.85	-70.66	-71.76	3.45	-2.35	-13.00	-57.66
3435.00	-33.44	-40.06	12.53	-5.91	-13.00	-20.44
5152.50	-45.02	-49.20	12.12	-7.94	-13.00	-32.02

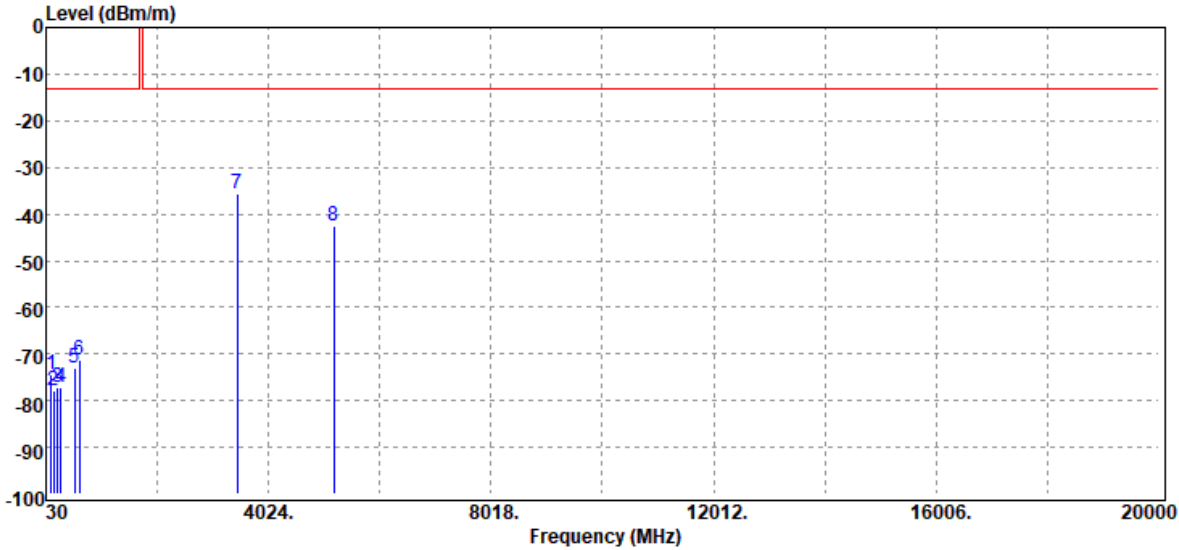
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Report Number :ER-2021-40008
 Operation Mode :LTE B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-74.39	-71.36	-1.88	-1.15	-13.00	-61.39
167.74	-77.74	-75.93	-0.55	-1.26	-13.00	-64.74
239.52	-77.00	-79.79	4.40	-1.61	-13.00	-64.00
291.90	-77.08	-79.39	4.05	-1.74	-13.00	-64.08
541.19	-72.86	-74.89	4.38	-2.35	-13.00	-59.86
624.61	-71.20	-72.35	3.49	-2.34	-13.00	-58.20
3465.00	-35.69	-42.06	12.47	-6.10	-13.00	-22.69
5197.50	-42.70	-47.21	12.39	-7.88	-13.00	-29.70

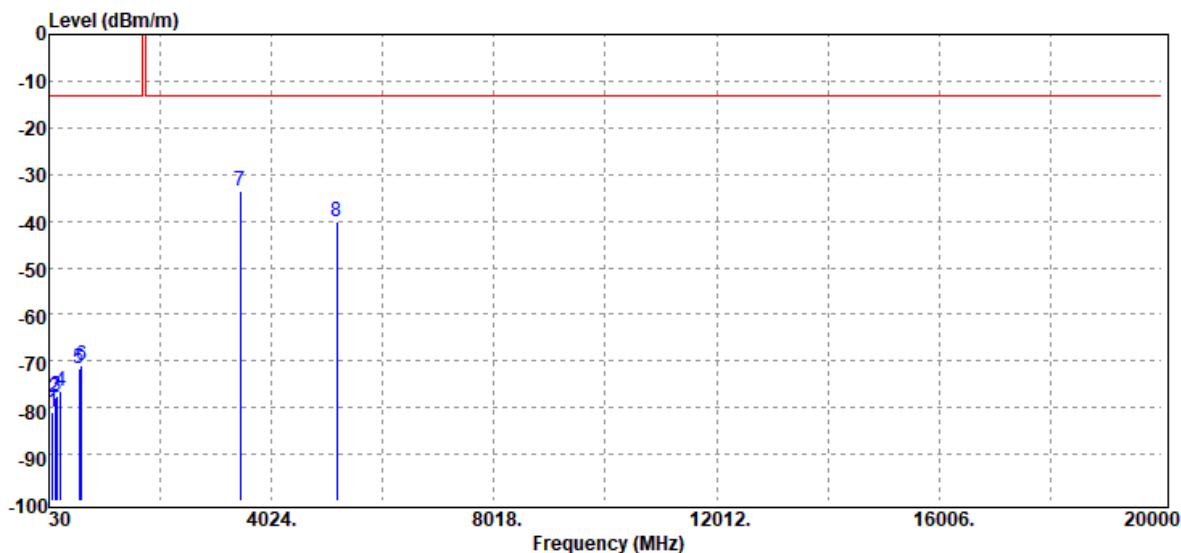
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Report Number :ER-2021-40008
 Operation Mode :LTE B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.5 MHz

Test Site :SAC III Chamber
 Test Date :2021-04-27
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-81.00	-79.75	-0.26	-0.99	-13.00	-68.00
133.79	-77.72	-74.44	-2.05	-1.23	-13.00	-64.72
168.71	-77.46	-75.79	-0.41	-1.26	-13.00	-64.46
236.61	-76.37	-79.22	4.46	-1.61	-13.00	-63.37
570.29	-71.67	-73.14	4.09	-2.62	-13.00	-58.67
619.76	-70.89	-72.03	3.43	-2.29	-13.00	-57.89
3465.00	-33.49	-39.86	12.47	-6.10	-13.00	-20.49
5197.50	-40.28	-44.79	12.39	-7.88	-13.00	-27.28

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