

LTE\Band17_10MHz_QPSK_50_0_LowCH23780-709



LTE\Band17_10MHz_QPSK_50_0_HighCH23800-711

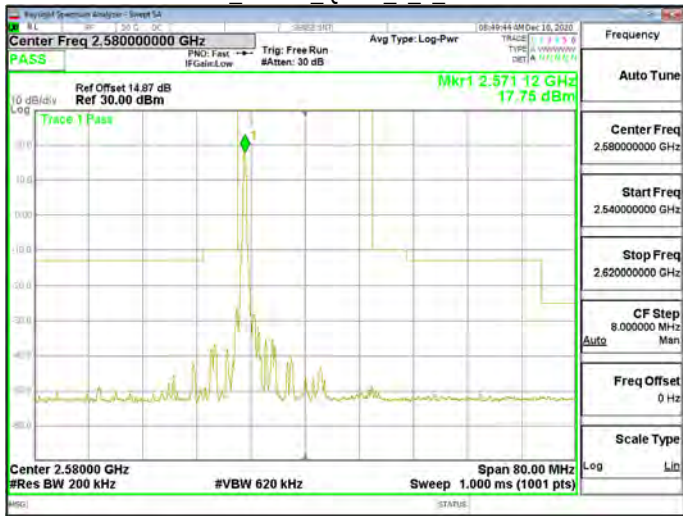


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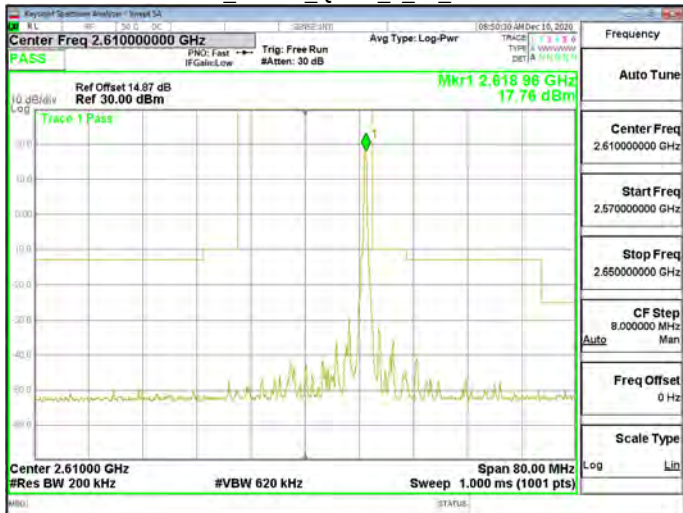
Emission Mask
Band38 20MHz_QPSK_1_0_CH37850



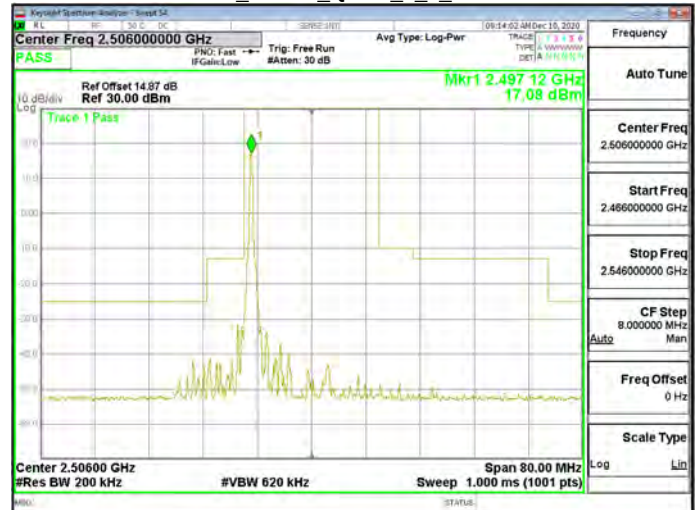
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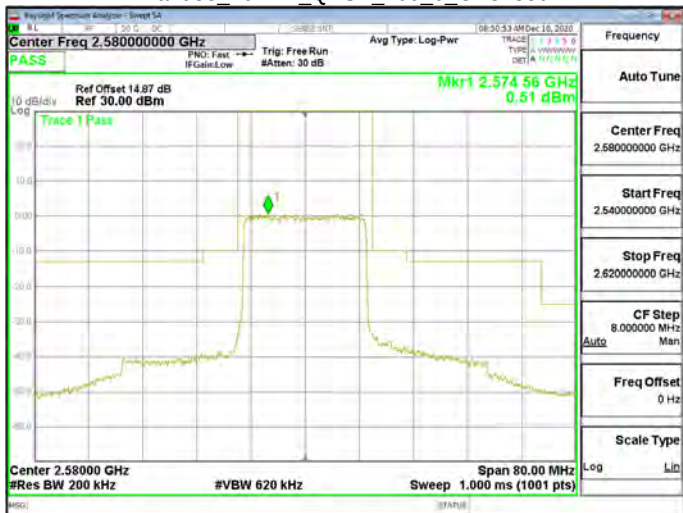
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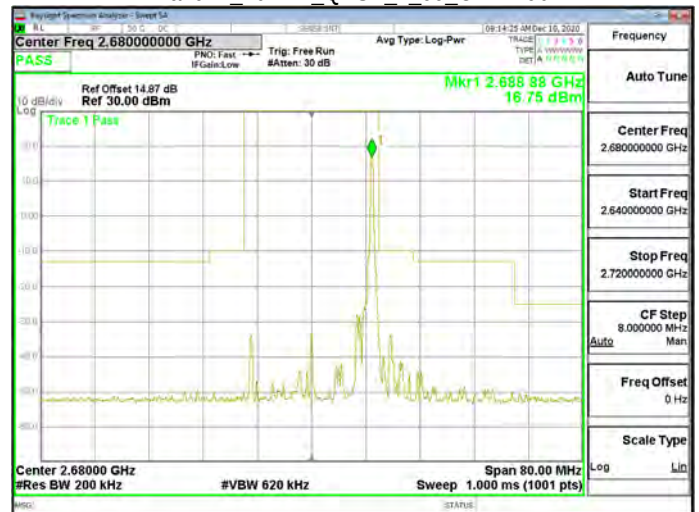
Band41 20MHz_QPSK_1_0_CH39750



Band38 20MHz_QPSK_100_0_CH37850



Band41 20MHz_QPSK_1_99_CH41490

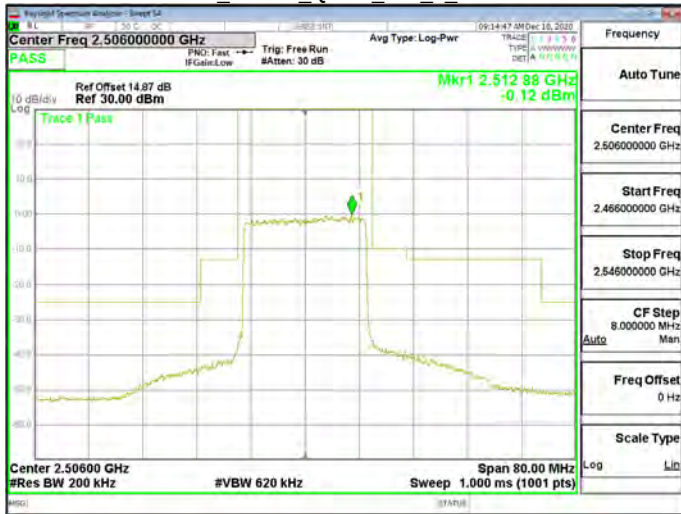


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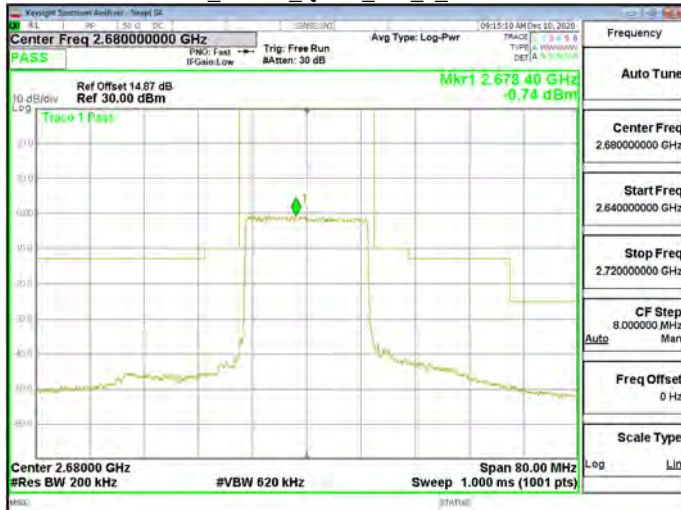
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Band41_20MHz_QPSK_100_0_CH39750



Band41_20MHz_QPSK_100_0_CH41490



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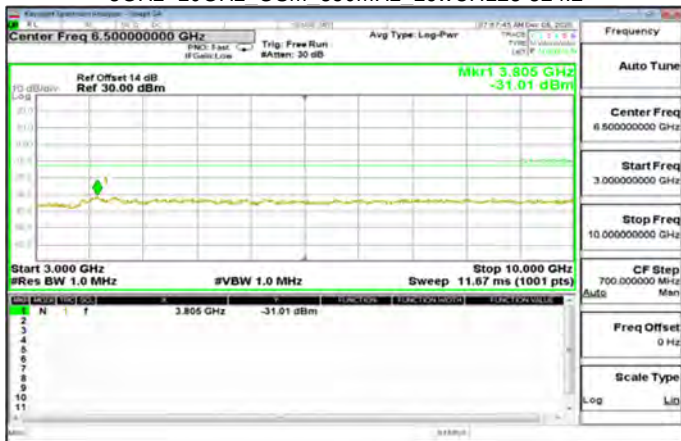
Supurious Emission
30MHz~3GHz GSM 850MHz LowCH128-824.2



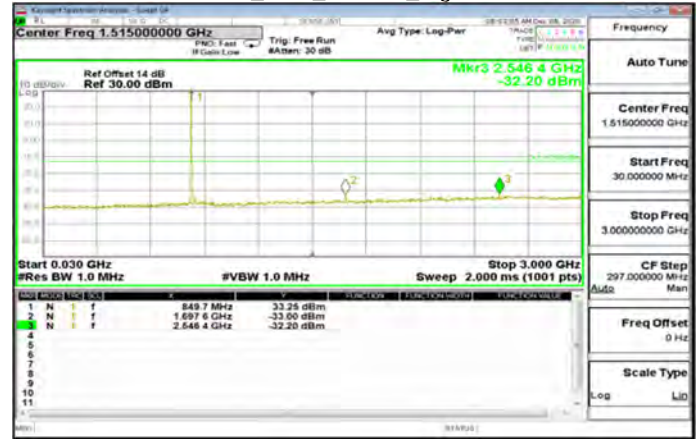
3GHz~10GHz GSM 850MHz MidCH190-836.6



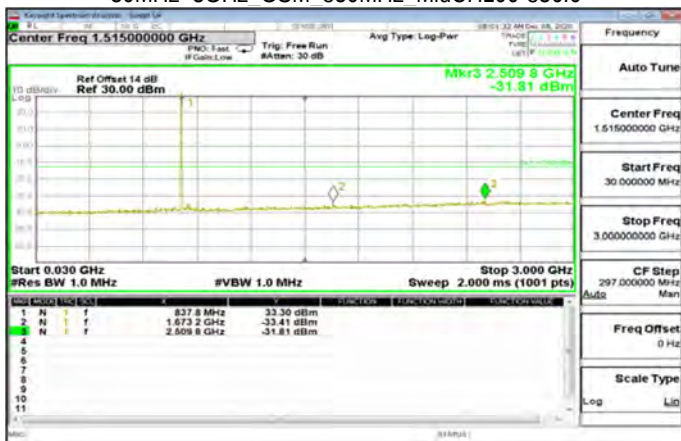
3GHz~10GHz GSM 850MHz LowCH128-824.2



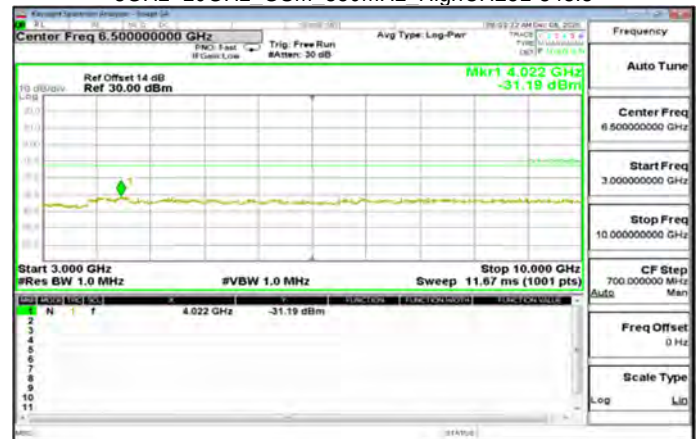
30MHz~3GHz GSM 850MHz HighCH251-848.8



30MHz~3GHz GSM 850MHz MidCH190-836.6



3GHz~10GHz GSM 850MHz HighCH251-848.8



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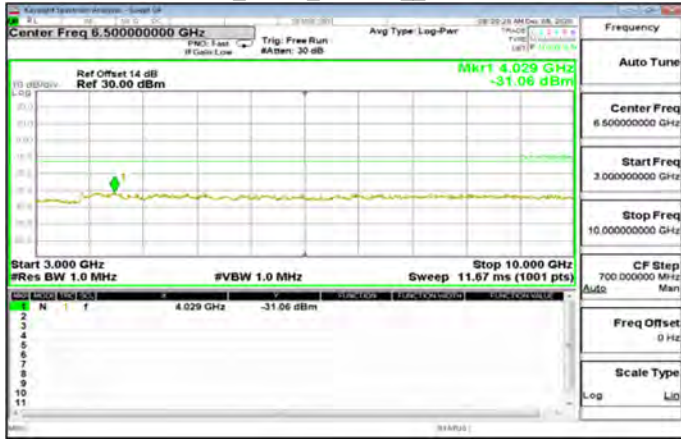
30MHz~3GHz_GPRS_850MHz_LowCH128-824.2



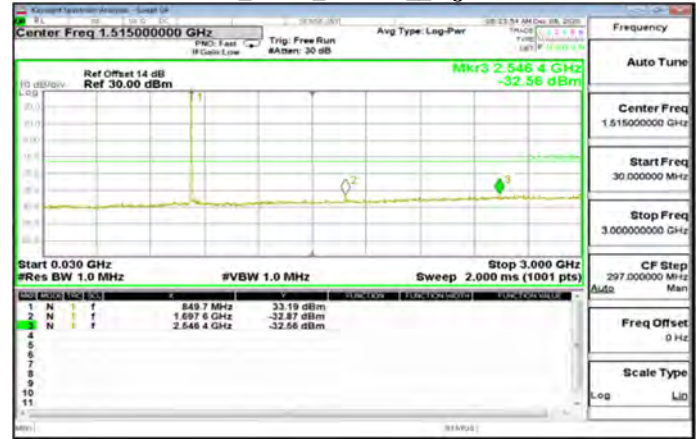
3GHz~10GHz_GPRS_850MHz_MidCH190-836.6



3GHz~10GHz_GPRS_850MHz_LowCH128-824.2



30MHz~3GHz_GPRS_850MHz_HighCH251-848.8



30MHz~3GHz_GPRS_850MHz_MidCH190-836.6



3GHz~10GHz_GPRS_850MHz_HighCH251-848.8

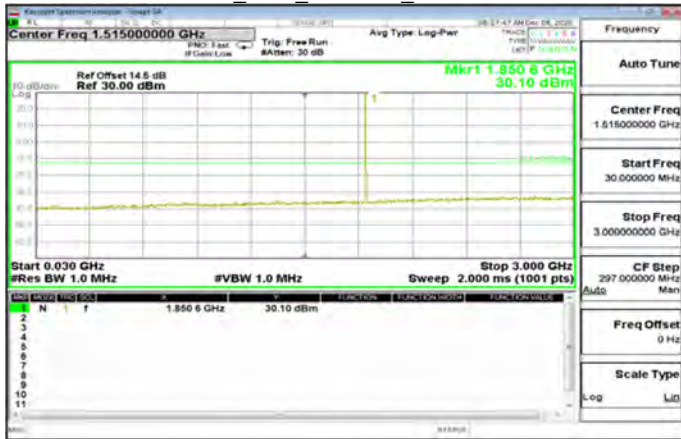


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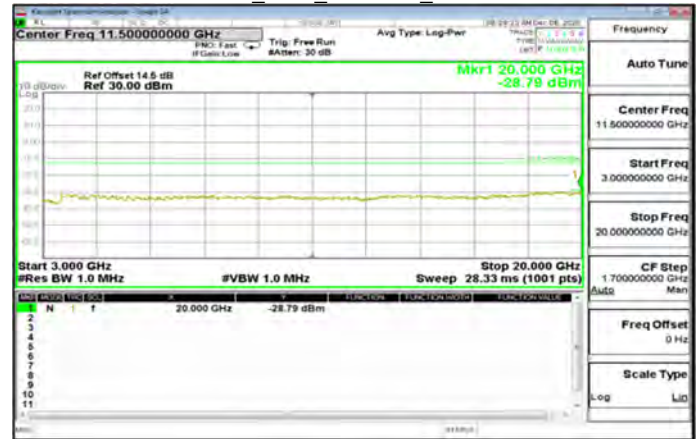
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30MHz~3GHz_GSM_1900MHz_LowCH512-1850.2



3GHz~10GHz_GSM_1900MHz_MidCH661-1880



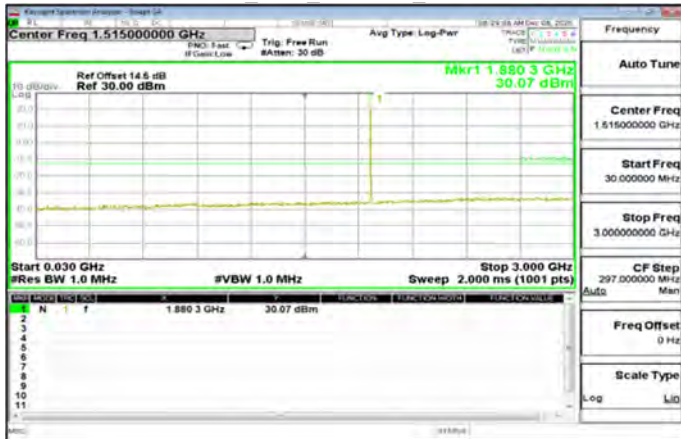
3GHz~10GHz_GSM_1900MHz_LowCH512-1850.2



30MHz~3GHz_GSM_1900MHz_HighCH810-1909.8



30MHz~3GHz_GSM_1900MHz_MidCH661-1880



3GHz~10GHz_GSM_1900MHz_HighCH810-1909.8



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30MHz~3GHz GPRS 1900MHz LowCH512-1850.2



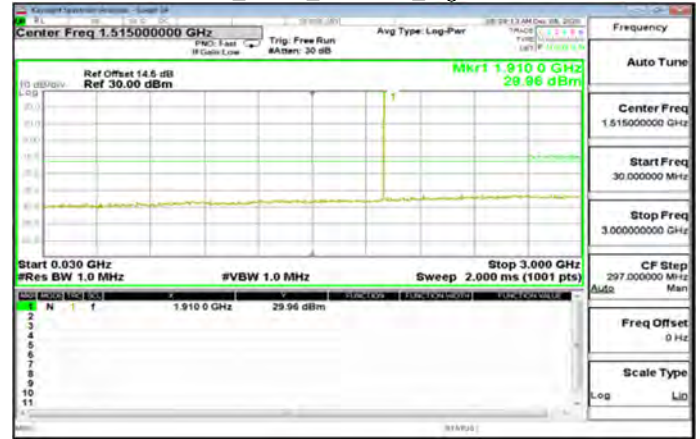
3GHz~10GHz GPRS 1900MHz MidCH661-1880



3GHz~10GHz GPRS 1900MHz LowCH512-1850.2



30MHz~3GHz GPRS 1900MHz HighCH810-1909.8



30MHz~3GHz GPRS 1900MHz MidCH661-1880



3GHz~10GHz GPRS 1900MHz HighCH810-1909.8



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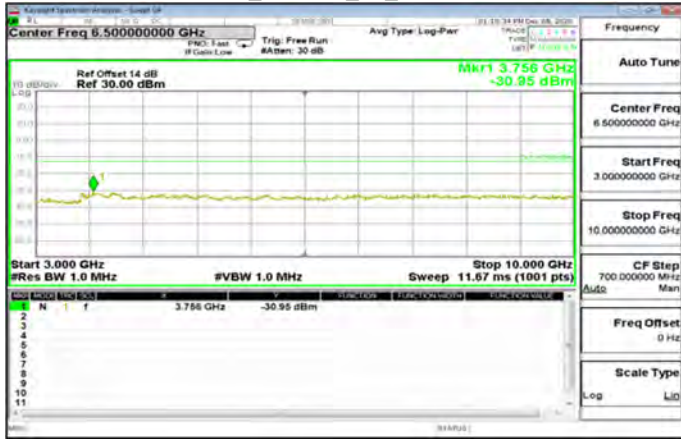
30MHz~3GHz_WCDMA_B5_LowCH4132-826.4



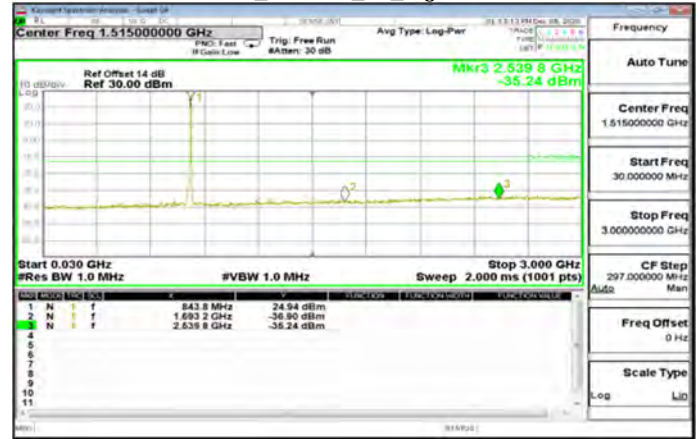
3GHz~10GHz_WCDMA_B5_MidCH4183-836.6



3GHz~10GHz_WCDMA_B5_LowCH4132-826.4



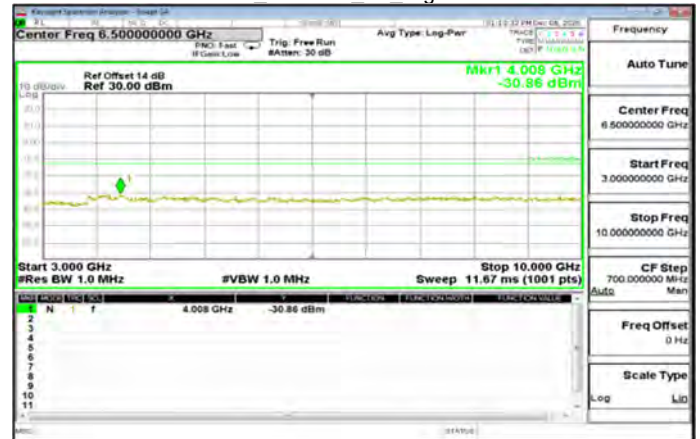
30MHz~3GHz_WCDMA_B5_HighCH4233-846.6



30MHz~3GHz_WCDMA_B5_MidCH4183-836.6



3GHz~10GHz_WCDMA_B5_HighCH4233-846.6



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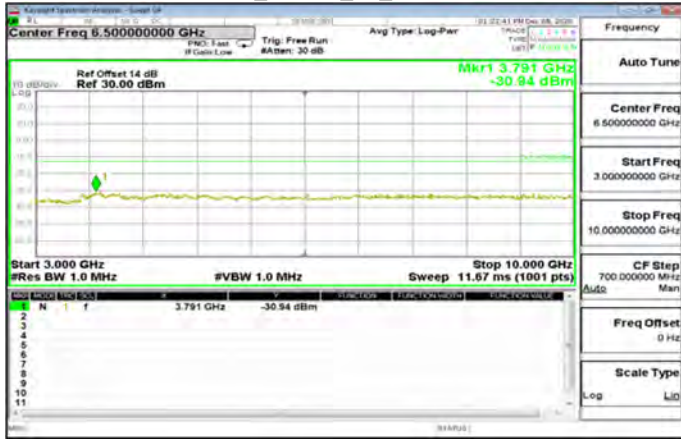
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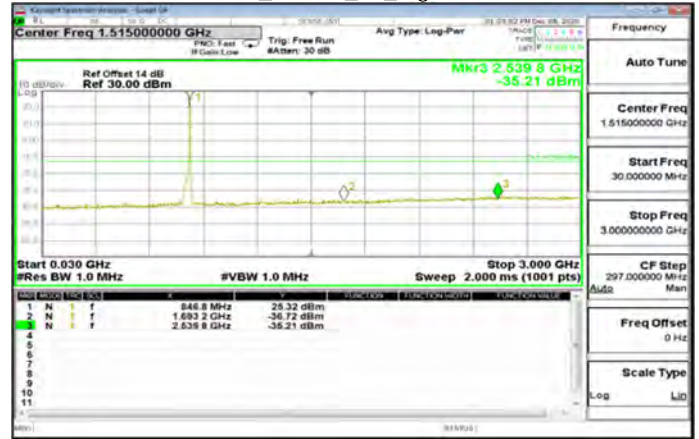
3GHz~10GHz_HSDPA_B5_MidCH4183-836.6



3GHz~10GHz_HSDPA_B5_LowCH4132-826.4



30MHz~3GHz_HSDPA_B5_HighCH4233-846.6



30MHz~3GHz_HSDPA_B5_MidCH4183-836.6



3GHz~10GHz_HSDPA_B5_HighCH4233-846.6



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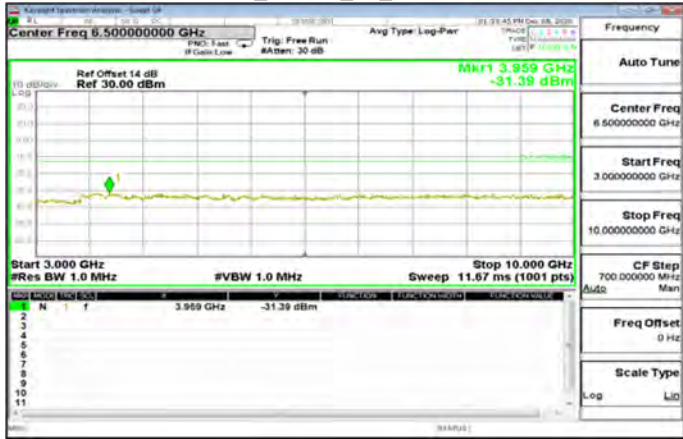
30MHz~3GHz_HSUPA_B5_LowCH4132-826.4



3GHz~10GHz_HSUPA_B5_MidCH4183-836.6



3GHz~10GHz_HSUPA_B5_LowCH4132-826.4



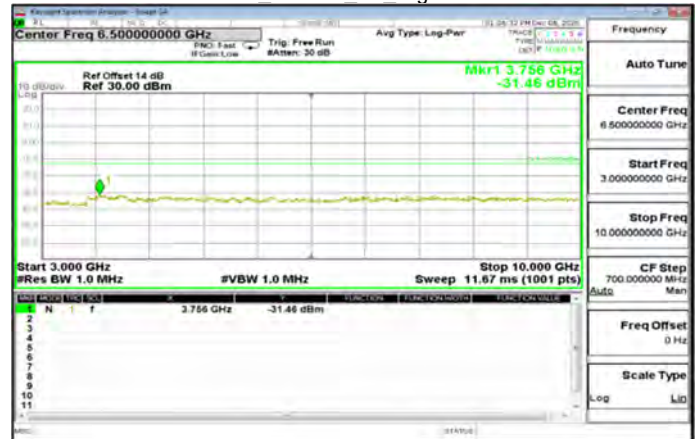
30MHz~3GHz_HSUPA_B5_HighCH4233-846.6



30MHz~3GHz_HSUPA_B5_MidCH4183-836.6



3GHz~10GHz_HSUPA_B5_HighCH4233-846.6



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30MHz~3GHz Band5 10MHz QPSK 1 0 LowCH20450-829



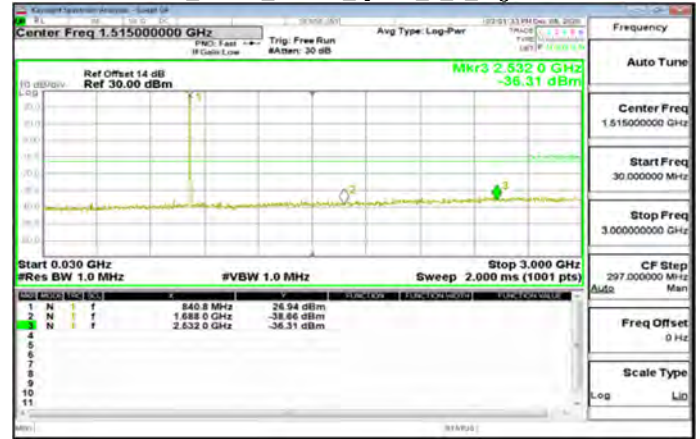
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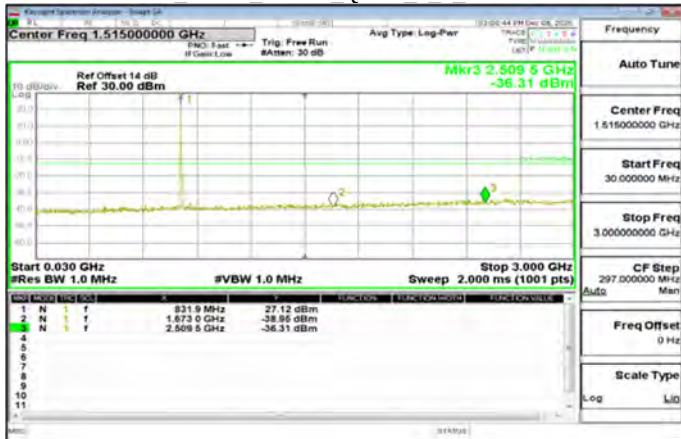
3GHz~10GHz Band5 10MHz QPSK 1 0 LowCH20450-829



30MHz~3GHz Band5 10MHz QPSK 1 0 HighCH20600-844



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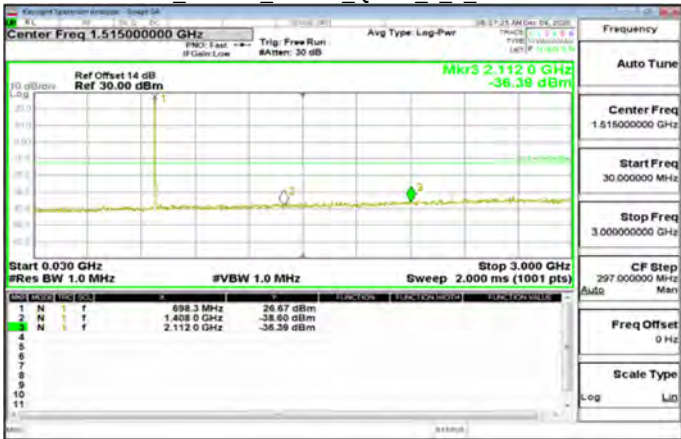


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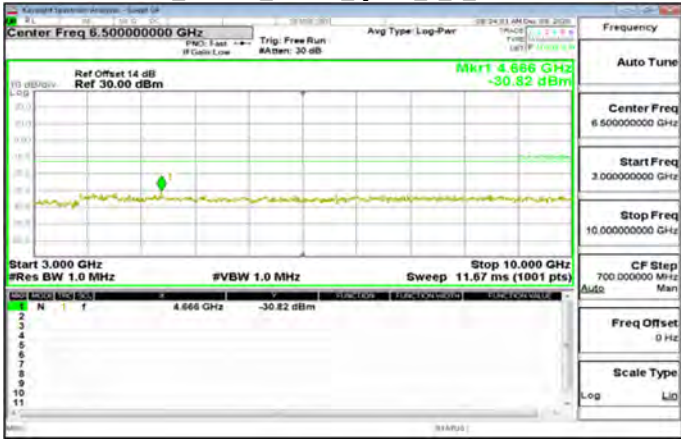
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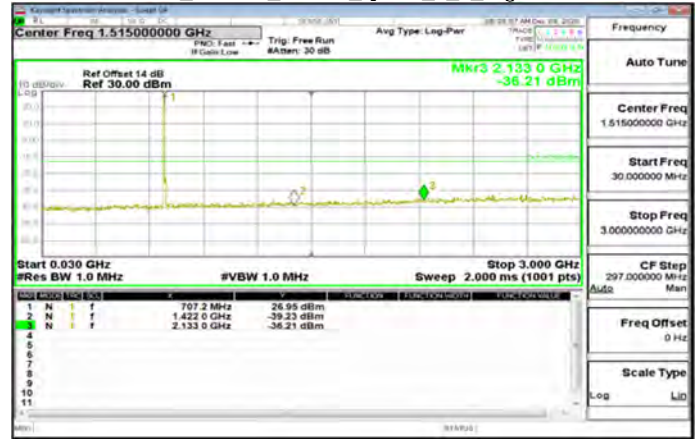
3GHz~10GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



30MHz~3GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



30MHz~3GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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30MHz~3GHz Band17 10MHz_QPSK 1 0 LowCH23780-709



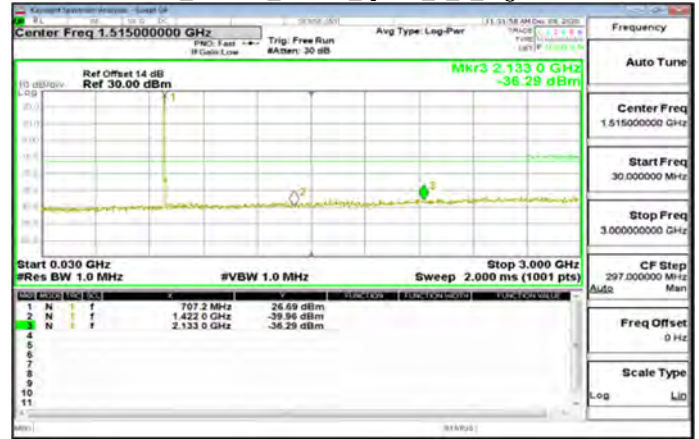
3GHz~10GHz Band17 10MHz_QPSK 1 0 MidCH23790-710



3GHz~10GHz Band17 10MHz_QPSK 1 0 LowCH23780-709



30MHz~3GHz Band17 10MHz_QPSK 1 0 HighCH23800-711



30MHz~3GHz Band17 10MHz_QPSK 1 0 MidCH23790-710



3GHz~10GHz Band17 10MHz_QPSK 1 0 HighCH23800-711

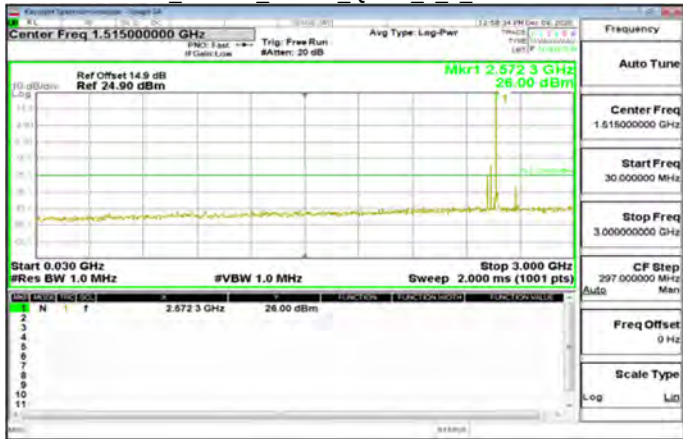


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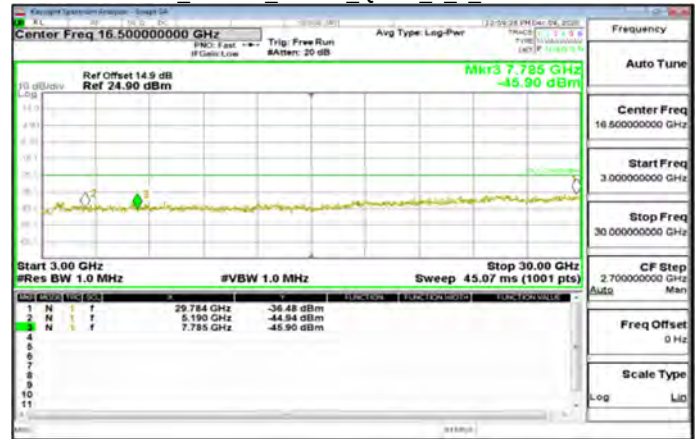
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30MHz~3GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



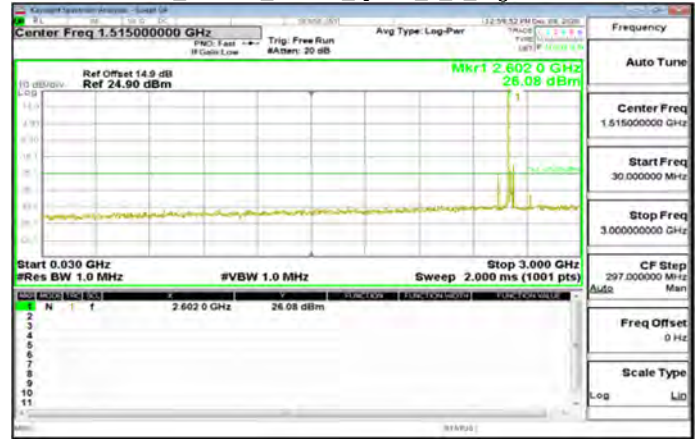
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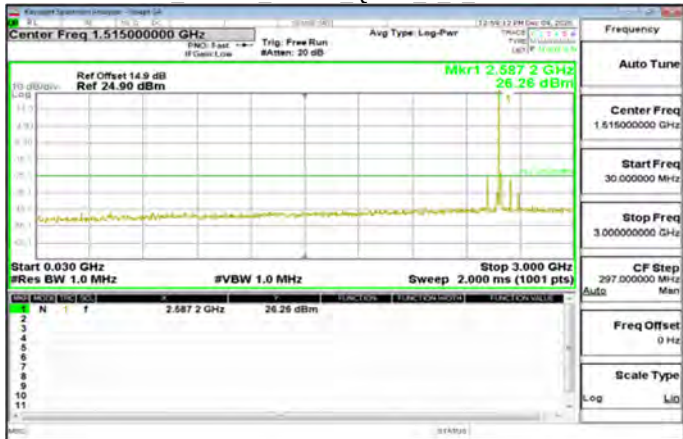
3GHz~10GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



30MHz~3GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610



30MHz~3GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595



3GHz~10GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610

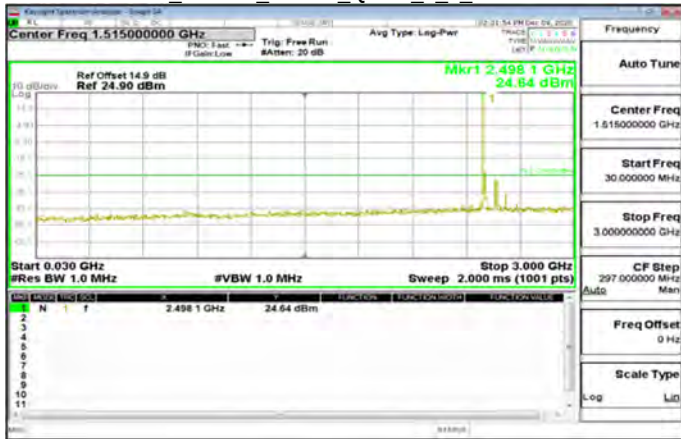


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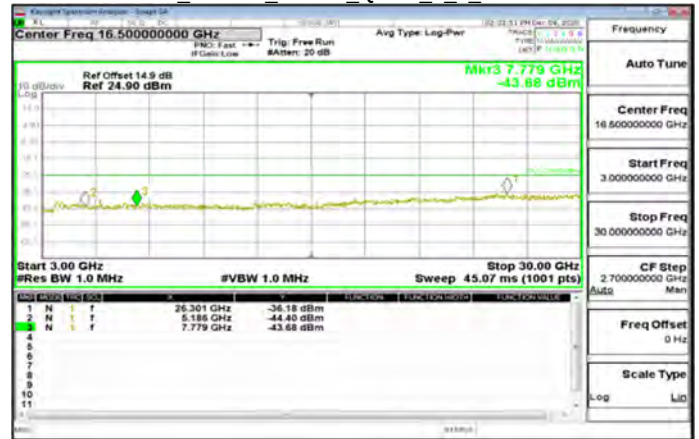
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30MHz~3GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



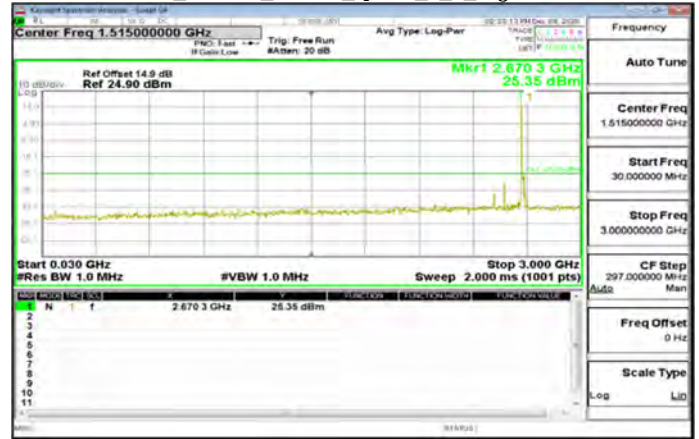
3GHz~10GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



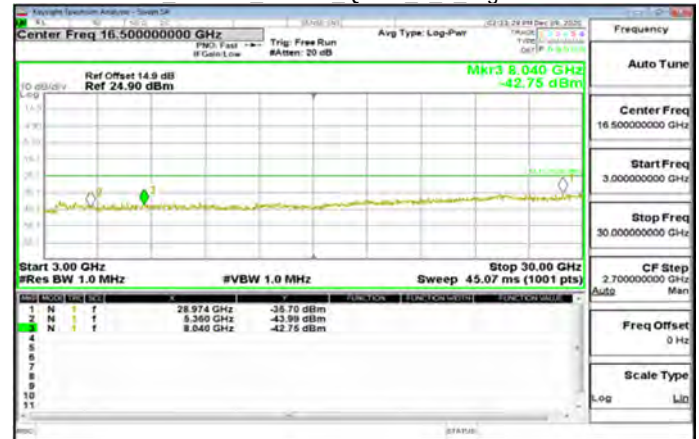
30MHz~3GHz_Band41_20MHz_QPSK_1_0_HighCH41490-2680



30MHz~3GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_20MHz_QPSK_1_0_HighCH41490-2680



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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)

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 LTE B12

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.

FCC §27.53(m) (4) (6) for LTE B38, 41

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 than $43 + 10 \log(P)$ 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 instrumentation 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 compliance with the rules.

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

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

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

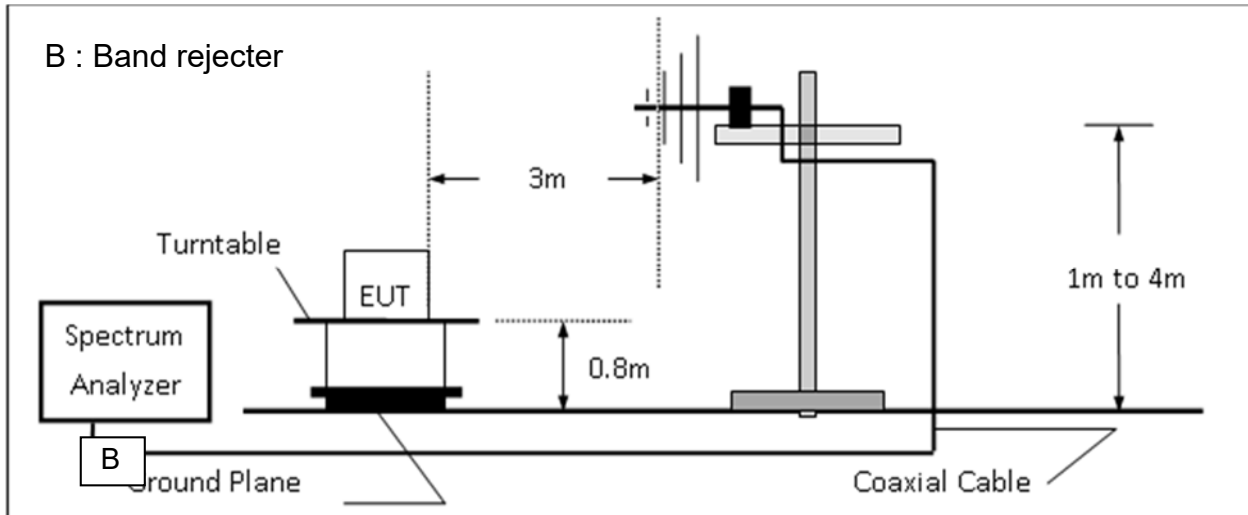
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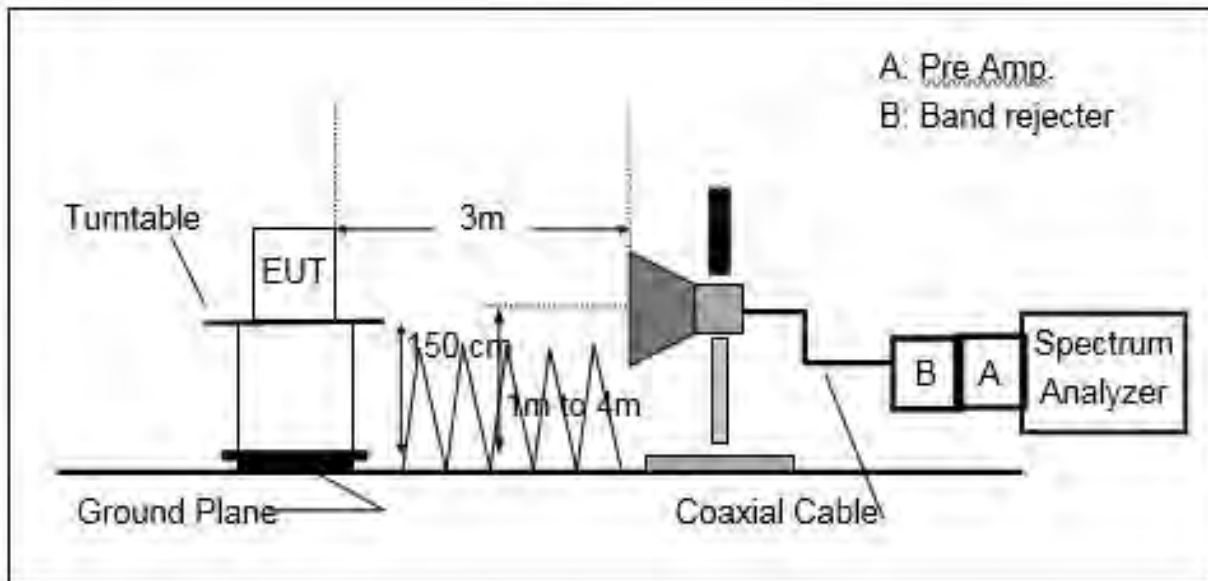
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9.2 EUT Setup

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:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
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
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Signal Generator	Agilent	N5183A	MY50140591	12/20/2019	12/19/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Filter 635-920	Micro-Tronics	WI	4	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_TX	1	01/02/2020	01/01/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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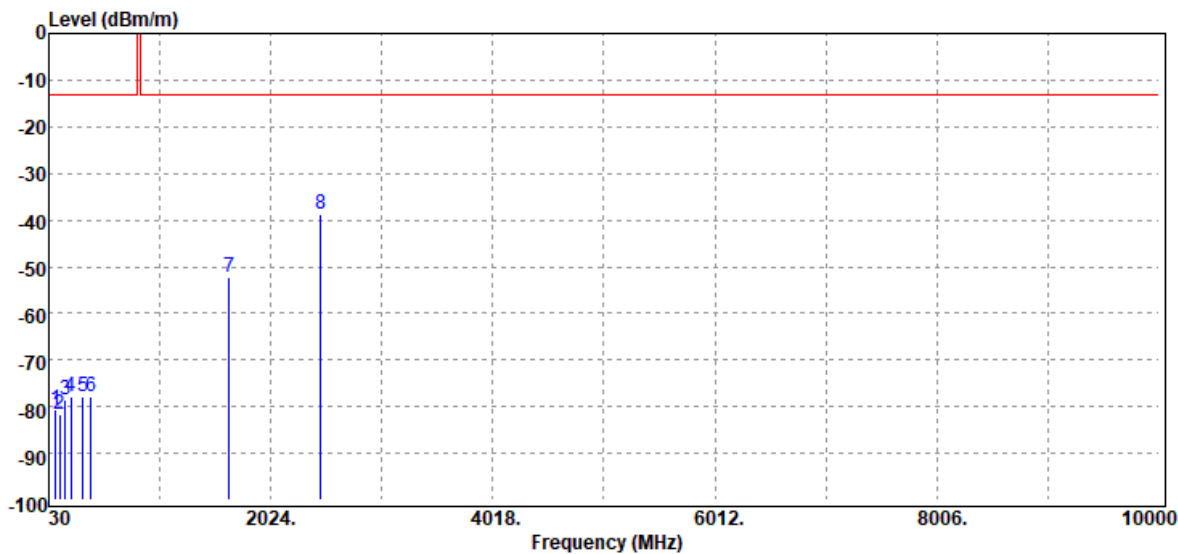
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9.5 Measurement Result:

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:824.2 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-80.49	-72.66	-6.94	-0.89	-13.00	-67.49
129.91	-81.67	-73.64	-7.05	-0.98	-13.00	-68.67
180.35	-78.44	-75.51	-1.70	-1.23	-13.00	-65.44
231.76	-77.79	-74.88	-1.47	-1.44	-13.00	-64.79
337.49	-77.72	-74.64	-1.26	-1.82	-13.00	-64.72
410.24	-77.91	-74.05	-1.98	-1.88	-13.00	-64.91
1648.40	-52.32	-58.35	9.89	-3.86	-13.00	-39.32
2472.60	-38.63	-44.45	10.59	-4.77	-13.00	-25.63

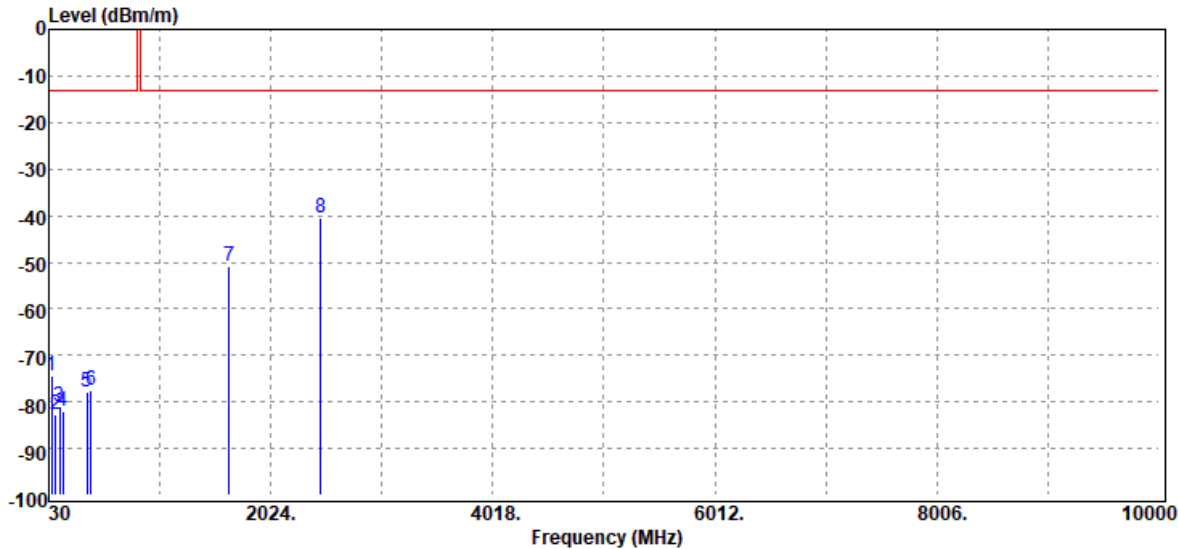
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Report Number :ER-2020-B0118
Operation Mode :GSM 850
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :824.2 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



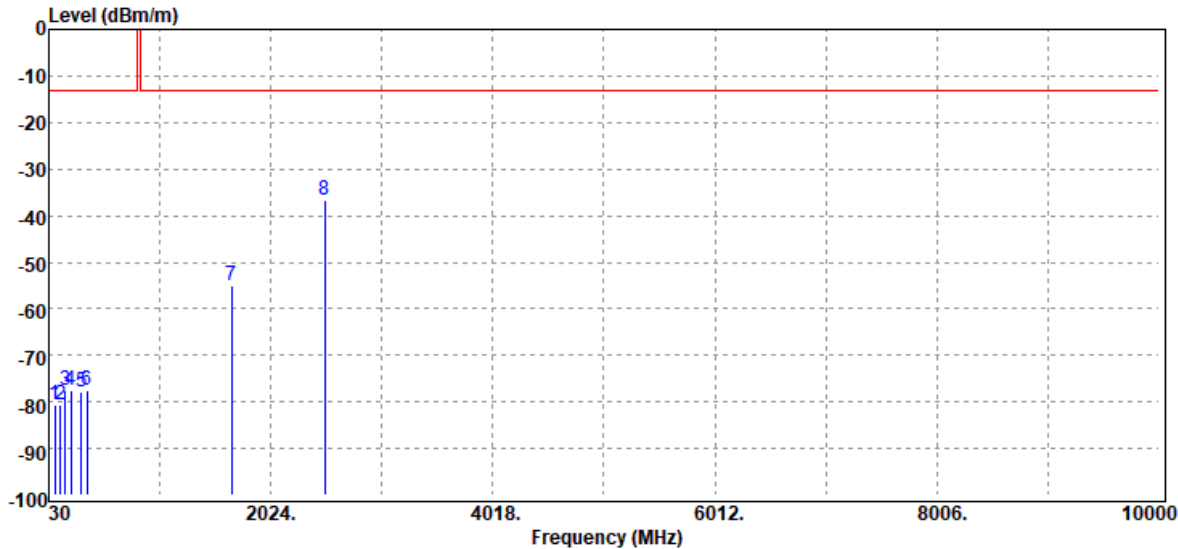
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-74.52	-64.13	-9.70	-0.69	-13.00	-61.52
91.11	-82.57	-74.39	-7.27	-0.91	-13.00	-69.57
129.91	-80.80	-72.77	-7.05	-0.98	-13.00	-67.80
154.16	-81.86	-76.27	-4.37	-1.22	-13.00	-68.86
371.44	-77.69	-74.61	-1.33	-1.75	-13.00	-64.69
406.36	-77.45	-73.82	-1.76	-1.87	-13.00	-64.45
1648.40	-50.99	-57.02	9.89	-3.86	-13.00	-37.99
2472.60	-40.60	-46.42	10.59	-4.77	-13.00	-27.60

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Report Number :ER-2020-B0118
Operation Mode :GSM 850
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.6 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick


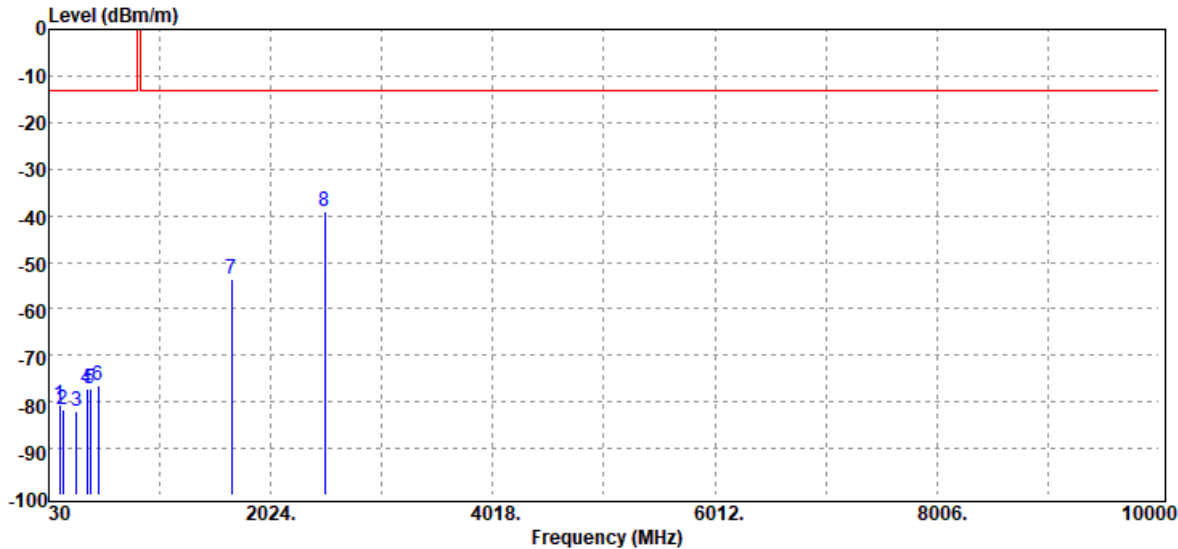
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
85.29	-80.76	-73.24	-6.64	-0.88	-13.00	-67.76
131.85	-80.73	-72.89	-6.84	-1.00	-13.00	-67.73
178.41	-77.62	-74.59	-1.80	-1.23	-13.00	-64.62
231.76	-77.37	-74.46	-1.47	-1.44	-13.00	-64.37
323.91	-77.97	-75.10	-1.20	-1.67	-13.00	-64.97
372.41	-77.36	-74.29	-1.31	-1.76	-13.00	-64.36
1673.20	-55.16	-61.21	9.95	-3.90	-13.00	-42.16
2509.80	-36.85	-42.77	10.74	-4.82	-13.00	-23.85

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Report Number :ER-2020-B0118
Operation Mode :GSM 850
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.6 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
129.91	-80.72	-72.69	-7.05	-0.98	-13.00	-67.72
154.16	-81.61	-76.02	-4.37	-1.22	-13.00	-68.61
282.20	-82.17	-79.04	-1.56	-1.57	-13.00	-69.17
371.44	-77.20	-74.12	-1.33	-1.75	-13.00	-64.20
403.45	-77.24	-73.72	-1.65	-1.87	-13.00	-64.24
471.35	-76.55	-73.51	-1.01	-2.03	-13.00	-63.55
1673.20	-53.72	-59.77	9.95	-3.90	-13.00	-40.72
2509.80	-39.14	-45.06	10.74	-4.82	-13.00	-26.14

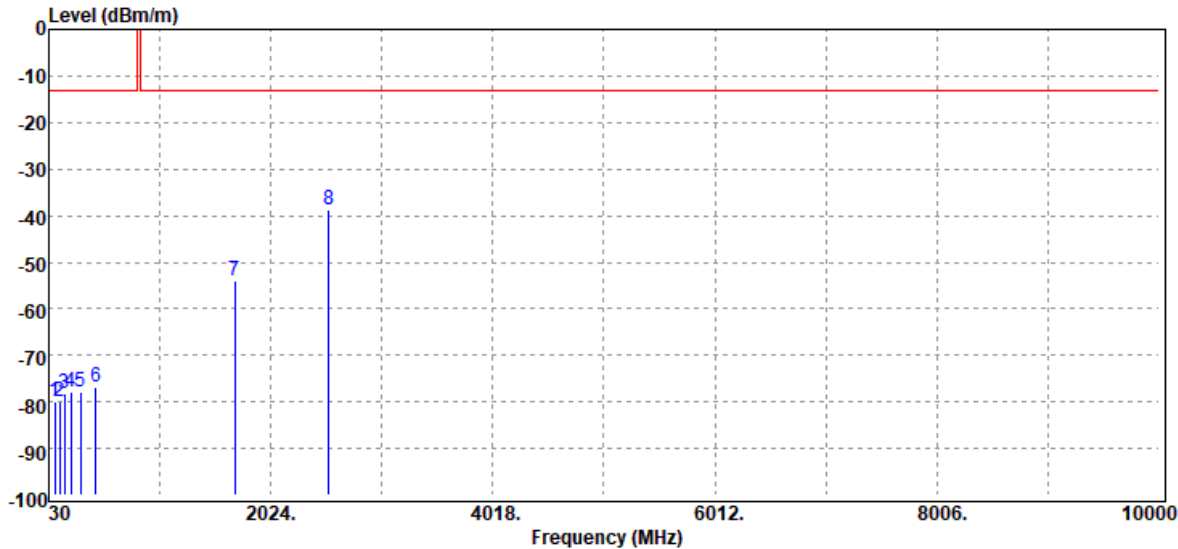
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Report Number :ER-2020-B0118
Operation Mode :GSM 850
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :848.8 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



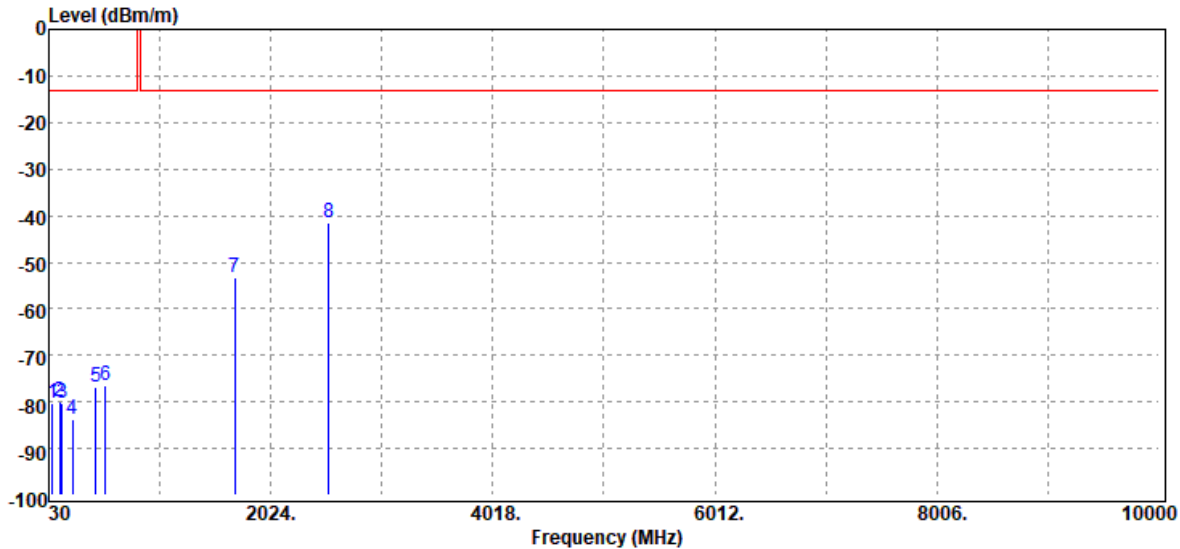
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
81.41	-79.94	-72.58	-6.50	-0.86	-13.00	-66.94
129.91	-79.76	-71.73	-7.05	-0.98	-13.00	-66.76
167.74	-78.35	-74.23	-2.86	-1.26	-13.00	-65.35
230.79	-77.92	-75.06	-1.43	-1.43	-13.00	-64.92
318.09	-77.96	-75.04	-1.28	-1.64	-13.00	-64.96
449.04	-76.98	-74.07	-1.10	-1.81	-13.00	-63.98
1697.60	-53.90	-59.97	10.00	-3.93	-13.00	-40.90
2546.40	-38.78	-44.81	10.89	-4.86	-13.00	-25.78

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Report Number :ER-2020-B0118
Operation Mode :GSM 850
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :848.8 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-80.34	-71.28	-8.31	-0.75	-13.00	-67.34
128.94	-79.98	-71.87	-7.12	-0.99	-13.00	-66.98
149.31	-80.32	-74.27	-4.84	-1.21	-13.00	-67.32
241.46	-83.71	-80.34	-1.89	-1.48	-13.00	-70.71
451.95	-76.94	-74.07	-1.06	-1.81	-13.00	-63.94
537.31	-76.36	-73.45	-1.01	-1.90	-13.00	-63.36
1697.60	-53.18	-59.25	10.00	-3.93	-13.00	-40.18
2546.40	-41.48	-47.51	10.89	-4.86	-13.00	-28.48

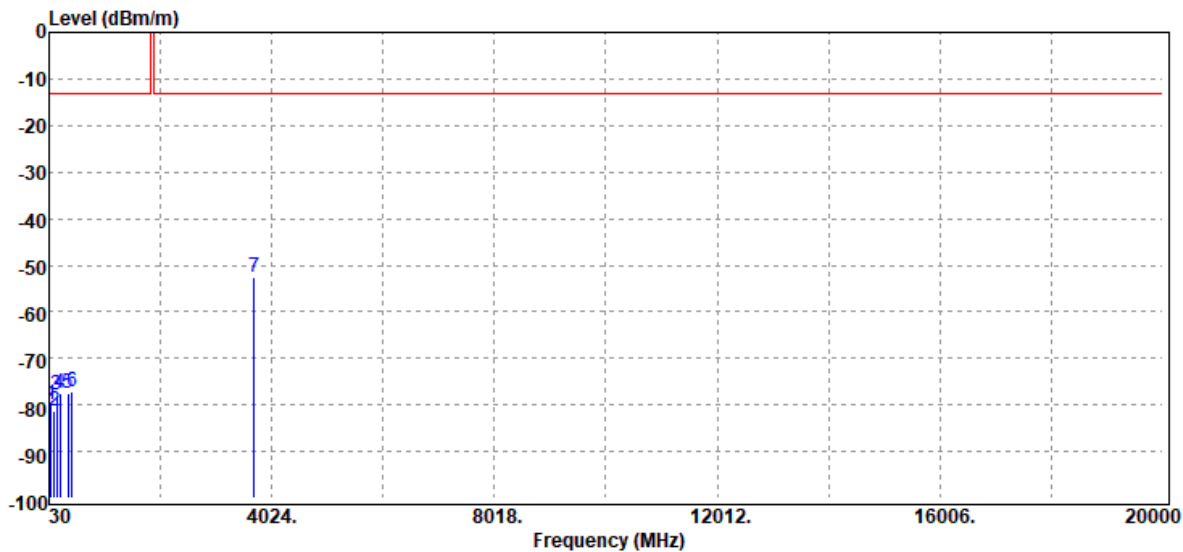
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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1850.2 MHz	Engineer	:Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
66.86	-79.99	-72.06	-7.14	-0.79	-13.00	-66.99
125.06	-81.33	-73.02	-7.29	-1.02	-13.00	-68.33
168.71	-78.02	-73.98	-2.78	-1.26	-13.00	-65.02
231.76	-77.65	-74.74	-1.47	-1.44	-13.00	-64.65
374.35	-77.67	-74.64	-1.26	-1.77	-13.00	-64.67
442.25	-77.21	-74.12	-1.20	-1.89	-13.00	-64.21
3700.40	-52.64	-59.18	12.40	-5.86	-13.00	-39.64

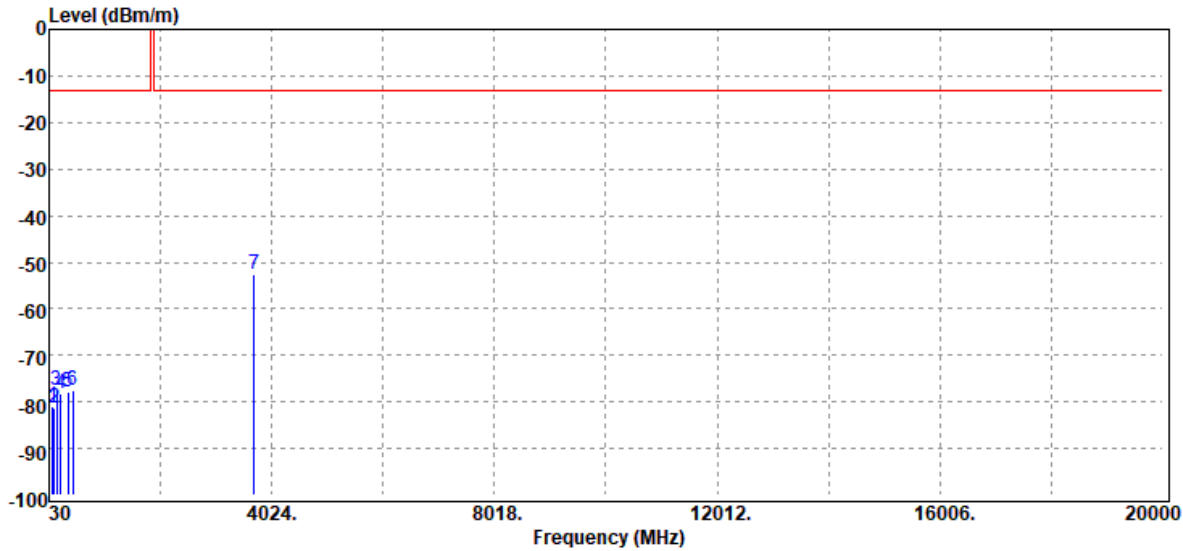
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Report Number :ER-2020-B0118
Operation Mode :GSM 1900
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1850.2 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-81.04	-73.21	-6.94	-0.89	-13.00	-68.04
128.94	-81.47	-73.36	-7.12	-0.99	-13.00	-68.47
167.74	-77.68	-73.56	-2.86	-1.26	-13.00	-64.68
233.70	-78.18	-75.18	-1.55	-1.45	-13.00	-65.18
367.56	-77.96	-74.76	-1.47	-1.73	-13.00	-64.96
459.71	-77.40	-74.35	-1.17	-1.88	-13.00	-64.40
3700.40	-52.67	-59.21	12.40	-5.86	-13.00	-39.67

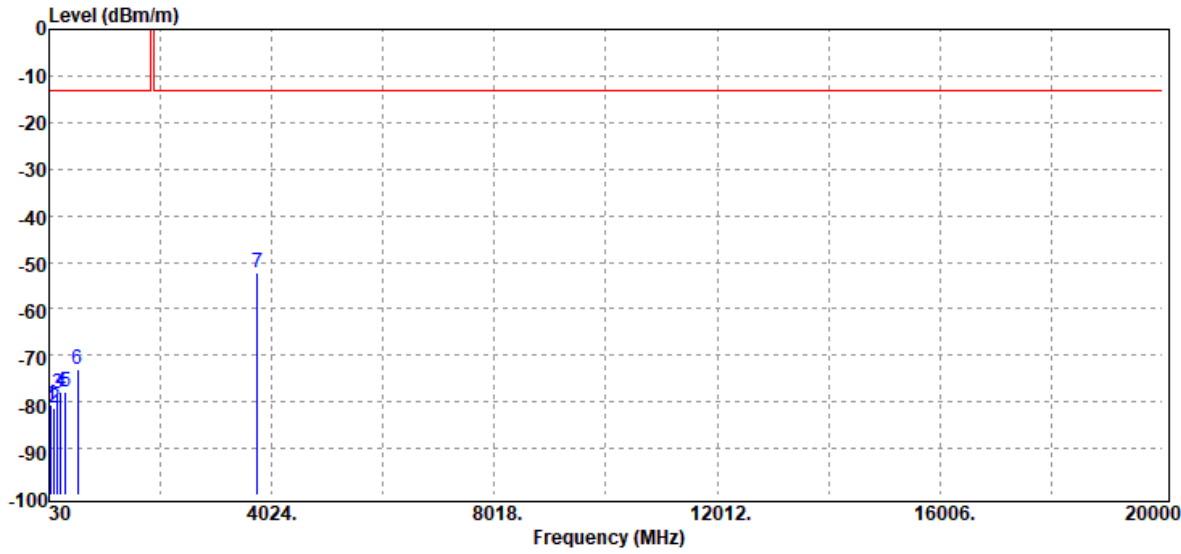
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Report Number :ER-2020-B0118
Operation Mode :GSM 1900
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



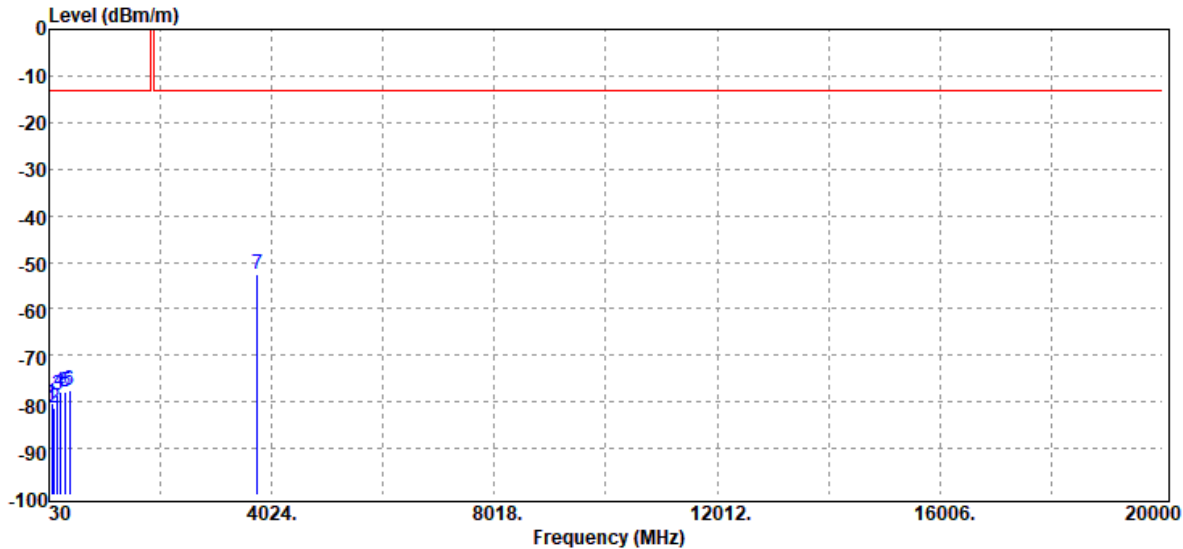
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
65.89	-80.53	-72.39	-7.35	-0.79	-13.00	-67.53
125.06	-81.41	-73.10	-7.29	-1.02	-13.00	-68.41
178.41	-78.23	-75.20	-1.80	-1.23	-13.00	-65.23
233.70	-77.68	-74.68	-1.55	-1.45	-13.00	-64.68
322.94	-77.73	-74.87	-1.20	-1.66	-13.00	-64.73
547.01	-73.06	-69.87	-1.07	-2.12	-13.00	-60.06
3760.00	-52.35	-59.01	12.40	-5.74	-13.00	-39.35

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Report Number :ER-2020-B0118
Operation Mode :GSM 1900
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
85.29	-80.24	-72.72	-6.64	-0.88	-13.00	-67.24
128.94	-81.41	-73.30	-7.12	-0.99	-13.00	-68.41
178.41	-78.53	-75.50	-1.80	-1.23	-13.00	-65.53
231.76	-77.87	-74.96	-1.47	-1.44	-13.00	-64.87
330.70	-77.76	-74.88	-1.17	-1.71	-13.00	-64.76
403.45	-77.37	-73.85	-1.65	-1.87	-13.00	-64.37
3760.00	-52.43	-59.09	12.40	-5.74	-13.00	-39.43

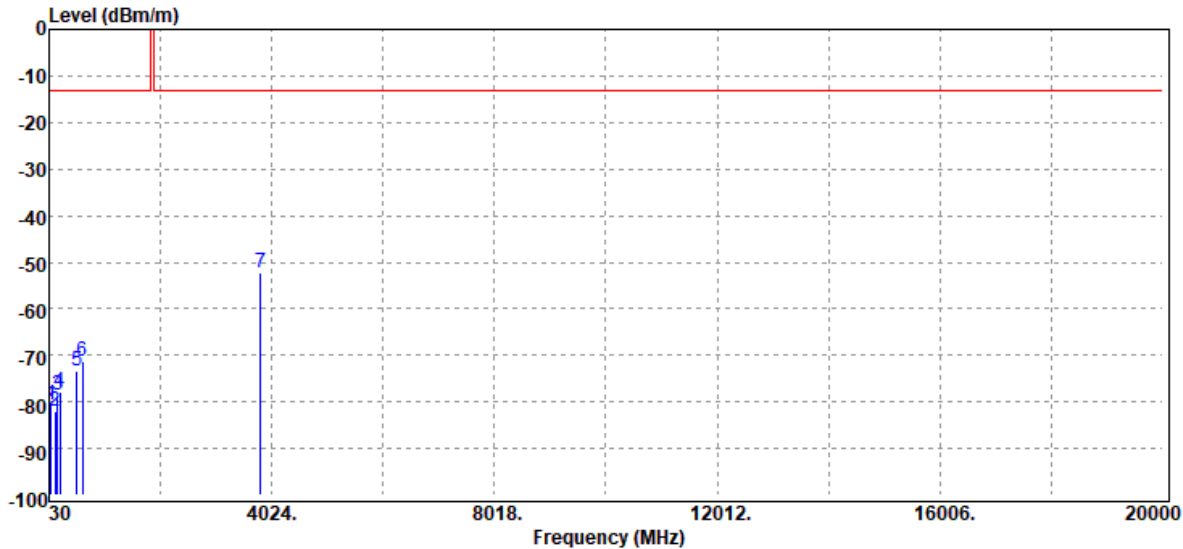
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Report Number :ER-2020-B0118
Operation Mode :GSM 1900
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1909.8 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.71	-73.05	-6.84	-0.82	-13.00	-67.71
131.85	-81.85	-74.01	-6.84	-1.00	-13.00	-68.85
177.44	-78.40	-75.26	-1.90	-1.24	-13.00	-65.40
230.79	-77.79	-74.93	-1.43	-1.43	-13.00	-64.79
522.76	-73.34	-70.41	-0.86	-2.07	-13.00	-60.34
624.61	-71.30	-68.60	-0.52	-2.18	-13.00	-58.30
3819.60	-52.39	-59.00	12.40	-5.79	-13.00	-39.39

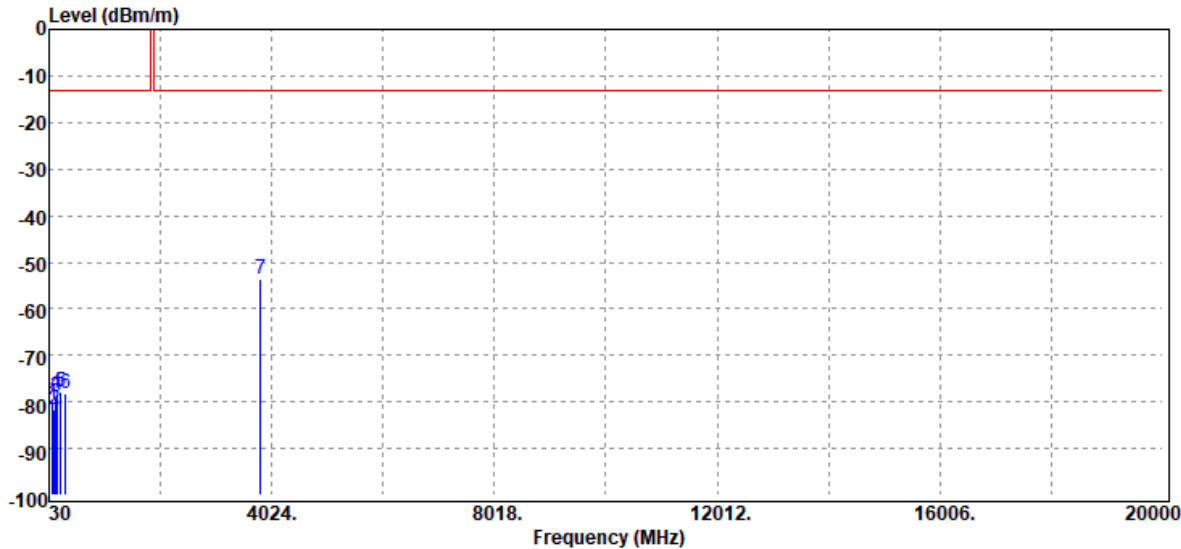
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Report Number :ER-2020-B0118
Operation Mode :GSM 1900
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1909.8 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-80.39	-72.56	-6.94	-0.89	-13.00	-67.39
129.91	-81.78	-73.75	-7.05	-0.98	-13.00	-68.78
154.16	-78.80	-73.21	-4.37	-1.22	-13.00	-65.80
167.74	-78.05	-73.93	-2.86	-1.26	-13.00	-65.05
235.64	-77.91	-74.82	-1.63	-1.46	-13.00	-64.91
325.85	-78.06	-75.20	-1.18	-1.68	-13.00	-65.06
3819.60	-53.61	-60.22	12.40	-5.79	-13.00	-40.61

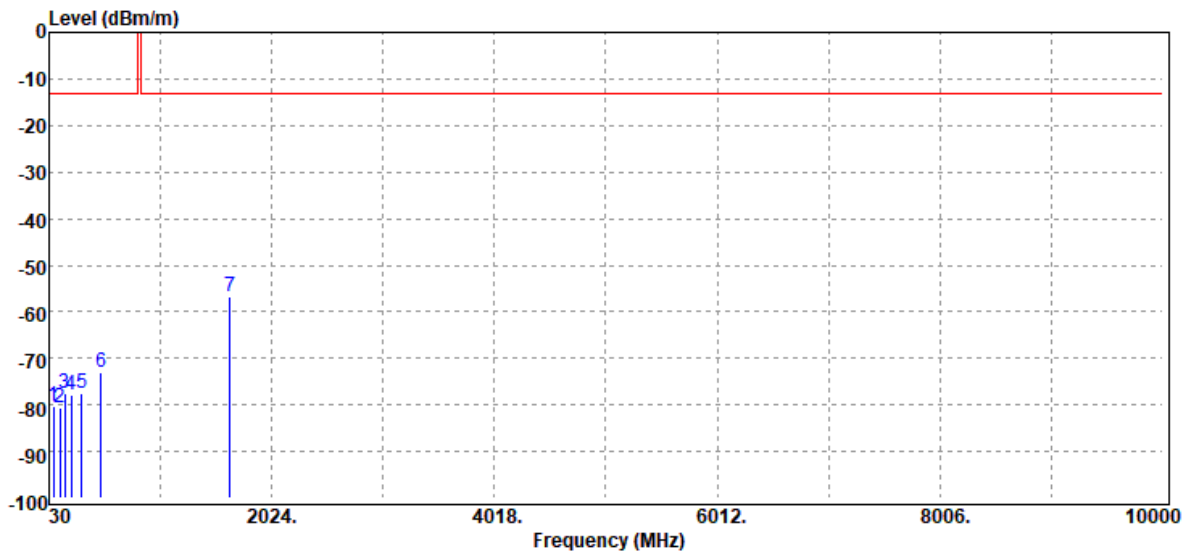
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B5	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:826.4 MHz	Engineer	:Nick



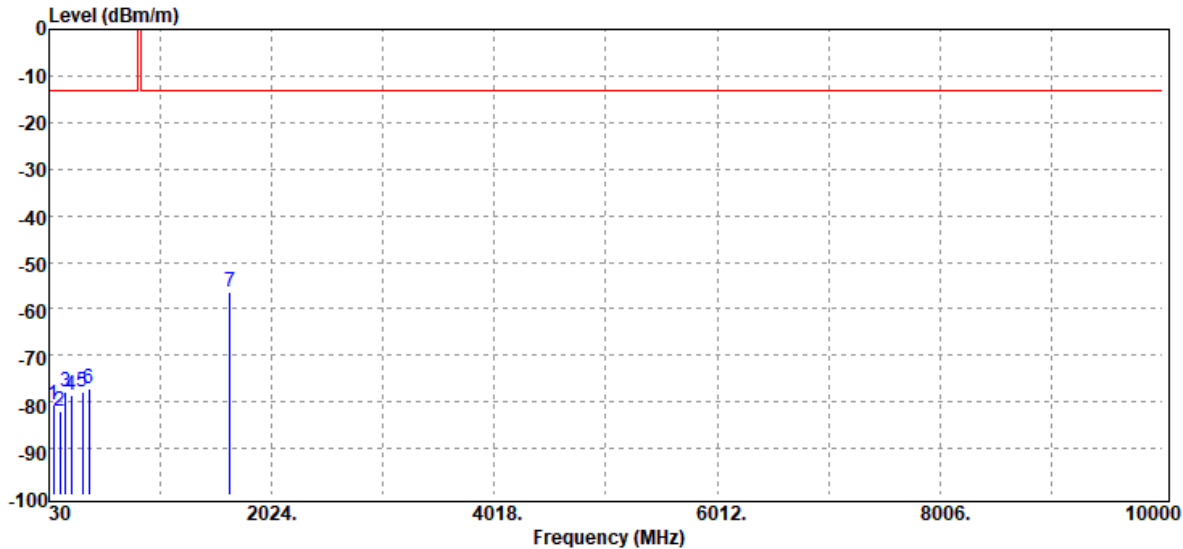
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.80	-80.13	-72.25	-7.07	-0.81	-13.00	-67.13
129.91	-80.68	-72.65	-7.05	-0.98	-13.00	-67.68
173.56	-77.66	-74.17	-2.24	-1.25	-13.00	-64.66
230.79	-77.71	-74.85	-1.43	-1.43	-13.00	-64.71
322.94	-77.65	-74.79	-1.20	-1.66	-13.00	-64.65
498.51	-73.08	-70.01	-0.84	-2.23	-13.00	-60.08
1652.80	-56.87	-62.91	9.91	-3.87	-13.00	-43.87

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Report Number :ER-2020-B0118
Operation Mode :WCDMA B5
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :826.4 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-80.54	-72.66	-7.07	-0.81	-13.00	-67.54
129.91	-81.90	-73.87	-7.05	-0.98	-13.00	-68.90
180.35	-77.99	-75.06	-1.70	-1.23	-13.00	-64.99
228.85	-78.49	-75.75	-1.32	-1.42	-13.00	-65.49
332.64	-77.73	-74.80	-1.19	-1.74	-13.00	-64.73
384.05	-77.16	-74.14	-1.22	-1.80	-13.00	-64.16
1652.80	-56.33	-62.37	9.91	-3.87	-13.00	-43.33

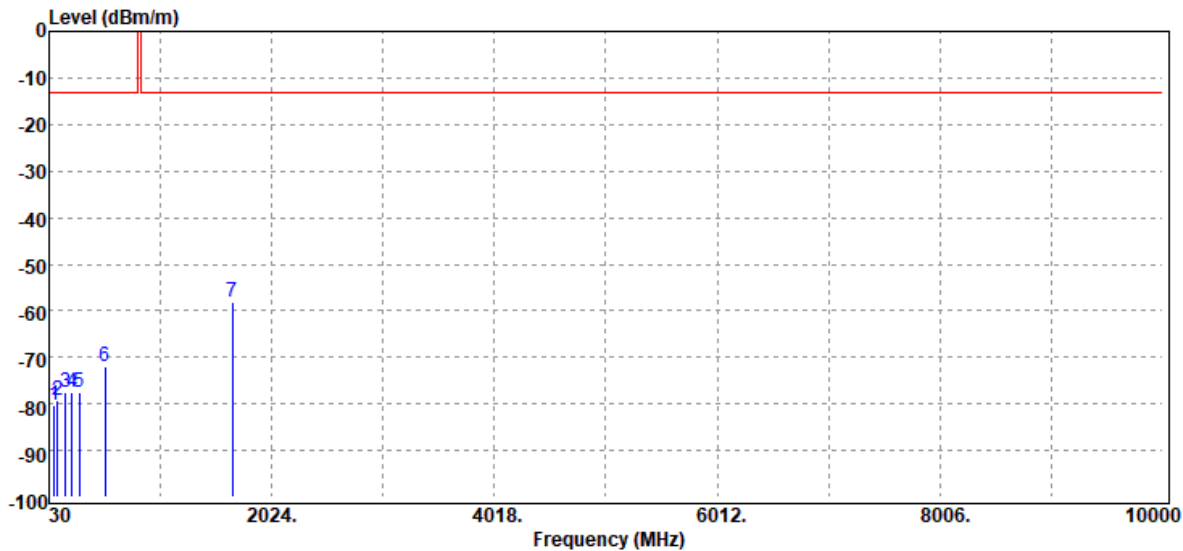
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Report Number :ER-2020-B0118
Operation Mode :WCDMA B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.6 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	-80.40	-72.96	-6.61	-0.83	-13.00	-67.40
107.60	-79.16	-69.98	-8.19	-0.99	-13.00	-66.16
175.50	-77.58	-74.30	-2.04	-1.24	-13.00	-64.58
235.64	-77.59	-74.50	-1.63	-1.46	-13.00	-64.59
299.66	-77.68	-74.67	-1.39	-1.62	-13.00	-64.68
532.46	-72.05	-69.30	-0.90	-1.85	-13.00	-59.05
1673.20	-58.07	-64.12	9.95	-3.90	-13.00	-45.07

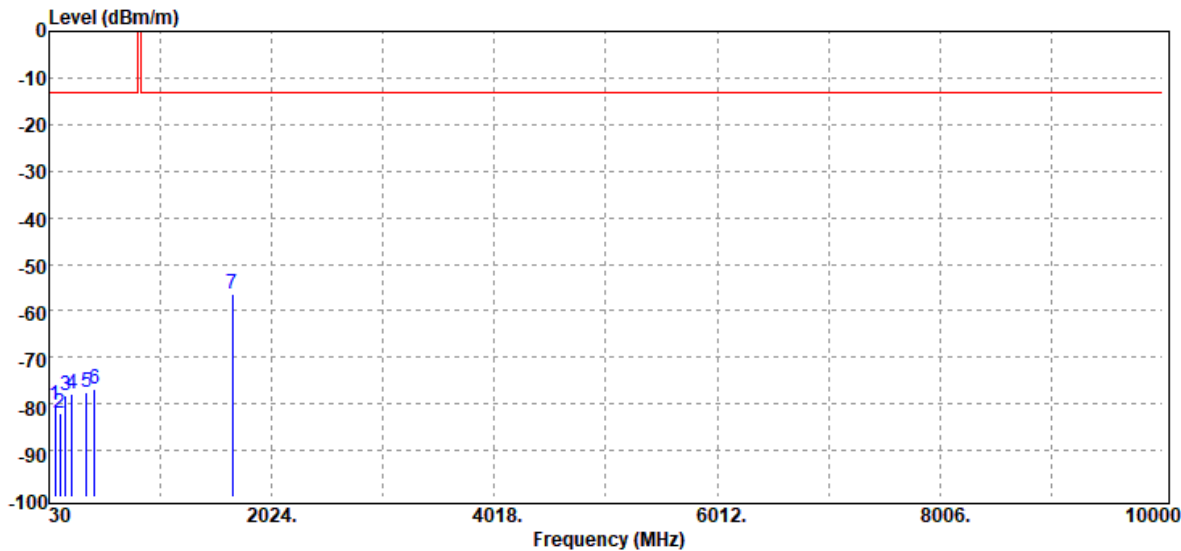
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Report Number :ER-2020-B0118
Operation Mode :WCDMA B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.6 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-80.29	-72.75	-6.66	-0.88	-13.00	-67.29
129.91	-82.02	-73.99	-7.05	-0.98	-13.00	-69.02
178.41	-78.03	-75.00	-1.80	-1.23	-13.00	-65.03
233.70	-77.81	-74.81	-1.55	-1.45	-13.00	-64.81
366.59	-77.45	-74.21	-1.51	-1.73	-13.00	-64.45
440.31	-76.71	-73.64	-1.16	-1.91	-13.00	-63.71
1673.20	-56.28	-62.33	9.95	-3.90	-13.00	-43.28

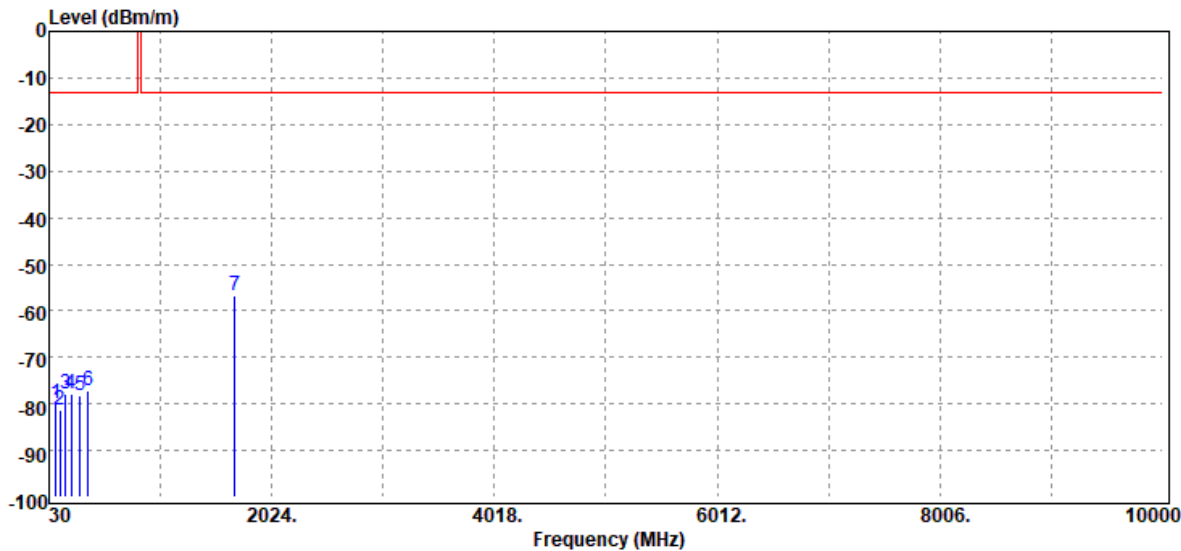
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Report Number :ER-2020-B0118
Operation Mode :WCDMA B5
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :846.6 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
88.20	-79.77	-71.94	-6.94	-0.89	-13.00	-66.77
128.94	-81.18	-73.07	-7.12	-0.99	-13.00	-68.18
177.44	-77.73	-74.59	-1.90	-1.24	-13.00	-64.73
231.76	-77.78	-74.87	-1.47	-1.44	-13.00	-64.78
308.39	-78.05	-75.14	-1.31	-1.60	-13.00	-65.05
381.14	-77.31	-74.27	-1.23	-1.81	-13.00	-64.31
1693.20	-56.90	-62.97	9.99	-3.92	-13.00	-43.90

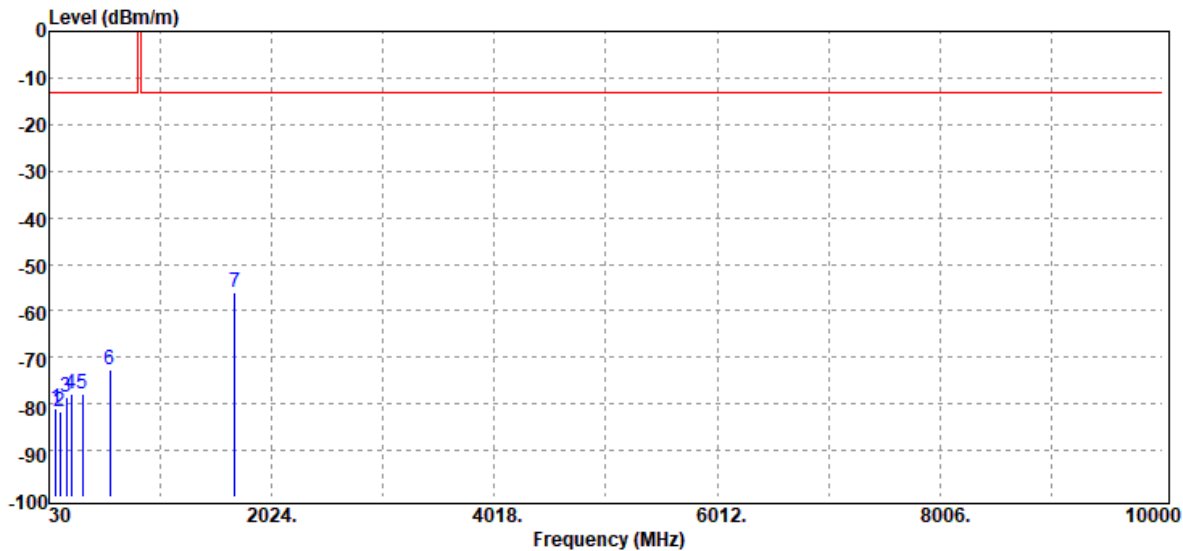
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Report Number :ER-2020-B0118
Operation Mode :WCDMA B5
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :846.6 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-81.02	-73.19	-6.94	-0.89	-13.00	-68.02
129.91	-81.49	-73.46	-7.05	-0.98	-13.00	-68.49
183.26	-78.38	-75.57	-1.57	-1.24	-13.00	-65.38
230.79	-77.86	-75.00	-1.43	-1.43	-13.00	-64.86
327.79	-77.97	-75.11	-1.17	-1.69	-13.00	-64.97
576.11	-72.65	-69.49	-0.76	-2.40	-13.00	-59.65
1693.20	-56.06	-62.13	9.99	-3.92	-13.00	-43.06

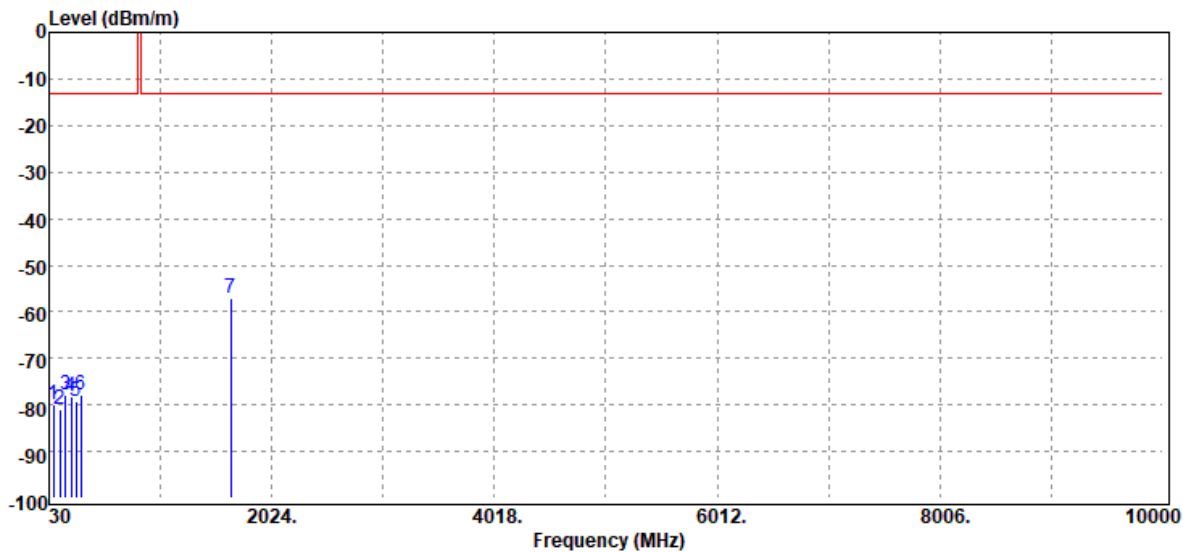
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Radiated Spurious Emission Measurement Result: LTE Band 5 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829 MHz	Engineer	:Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
66.86	-80.04	-72.11	-7.14	-0.79	-13.00	-67.04
125.06	-80.98	-72.67	-7.29	-1.02	-13.00	-67.98
175.50	-77.92	-74.64	-2.04	-1.24	-13.00	-64.92
230.79	-78.12	-75.26	-1.43	-1.43	-13.00	-65.12
274.44	-79.40	-76.09	-1.77	-1.54	-13.00	-66.40
316.15	-77.73	-74.77	-1.33	-1.63	-13.00	-64.73
1658.00	-56.93	-62.97	9.92	-3.88	-13.00	-43.93

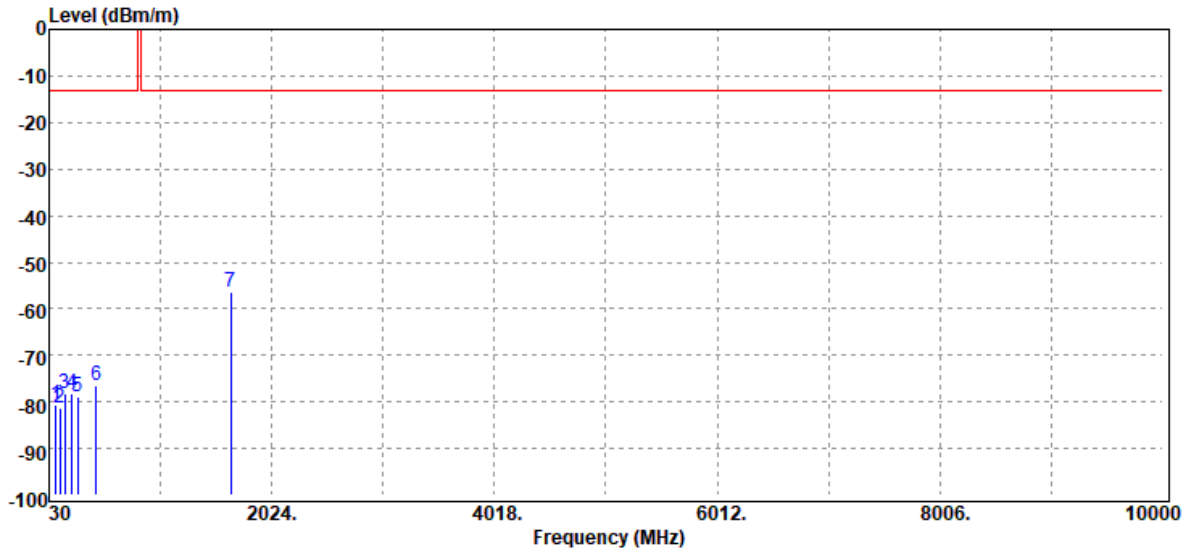
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Report Number :ER-2020-B0118
Operation Mode :LTE B5
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :829 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



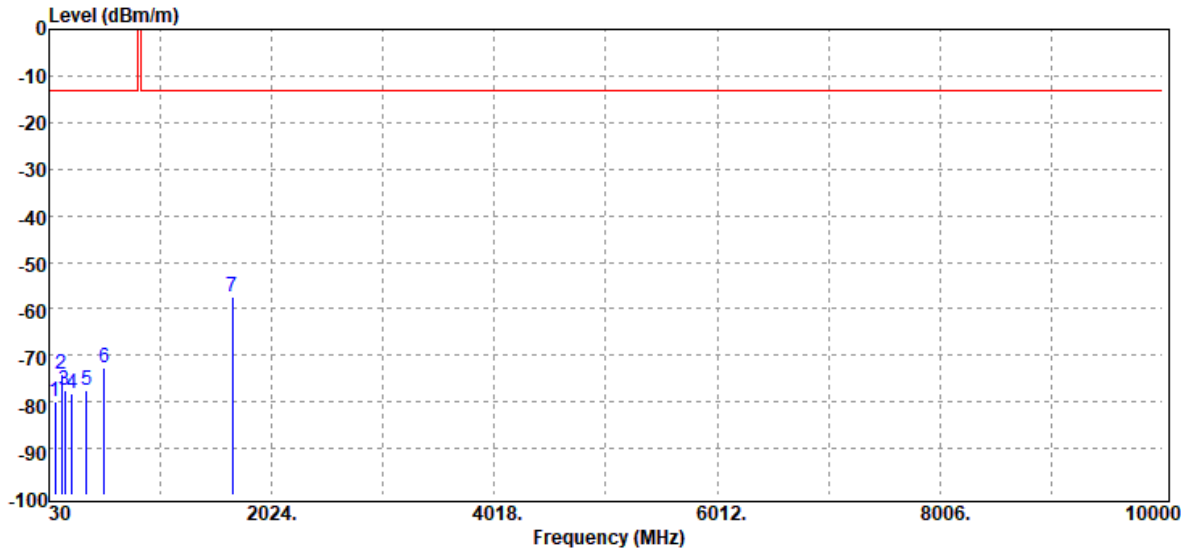
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
88.20	-80.55	-72.72	-6.94	-0.89	-13.00	-67.55
129.91	-81.18	-73.15	-7.05	-0.98	-13.00	-68.18
173.56	-78.09	-74.60	-2.24	-1.25	-13.00	-65.09
235.64	-78.16	-75.07	-1.63	-1.46	-13.00	-65.16
288.99	-78.87	-75.77	-1.49	-1.61	-13.00	-65.87
449.04	-76.41	-73.50	-1.10	-1.81	-13.00	-63.41
1658.00	-56.28	-62.32	9.92	-3.88	-13.00	-43.28

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Report Number :ER-2020-B0118
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
83.35	-79.83	-72.48	-6.48	-0.87	-13.00	-66.83
138.64	-74.17	-67.00	-6.09	-1.08	-13.00	-61.17
173.56	-77.47	-73.98	-2.24	-1.25	-13.00	-64.47
233.70	-78.19	-75.19	-1.55	-1.45	-13.00	-65.19
362.71	-77.60	-74.25	-1.64	-1.71	-13.00	-64.60
524.70	-72.60	-69.77	-0.83	-2.00	-13.00	-59.60
1673.00	-57.46	-63.51	9.95	-3.90	-13.00	-44.46

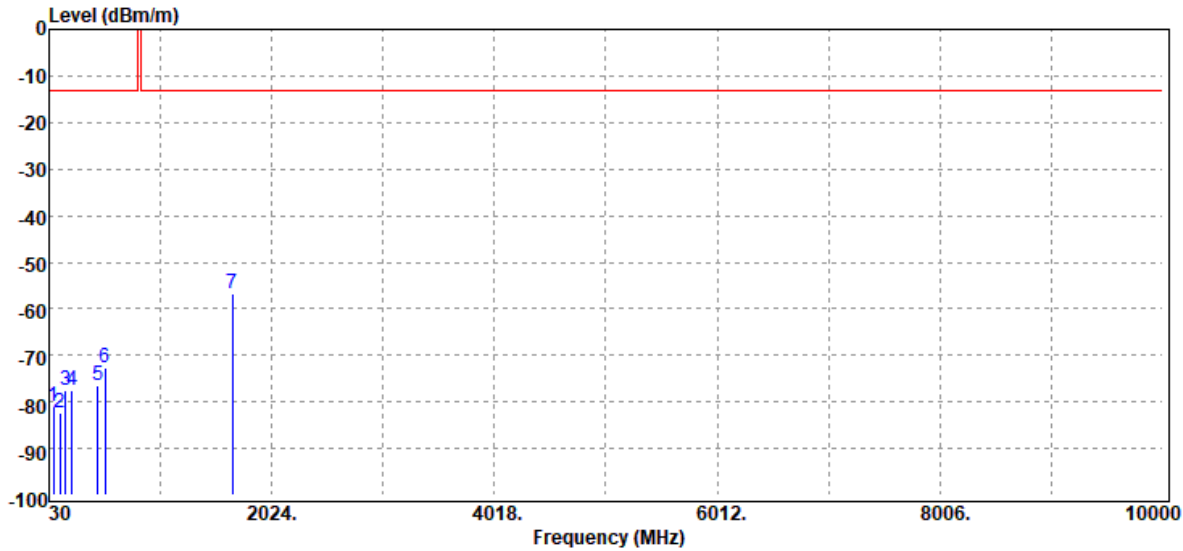
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Report Number :ER-2020-B0118
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-81.12	-73.24	-7.07	-0.81	-13.00	-68.12
128.94	-82.23	-74.12	-7.12	-0.99	-13.00	-69.23
177.44	-77.66	-74.52	-1.90	-1.24	-13.00	-64.66
233.70	-77.64	-74.64	-1.55	-1.45	-13.00	-64.64
463.59	-76.59	-73.56	-1.10	-1.93	-13.00	-63.59
531.49	-72.79	-70.07	-0.88	-1.84	-13.00	-59.79
1673.00	-56.70	-62.75	9.95	-3.90	-13.00	-43.70

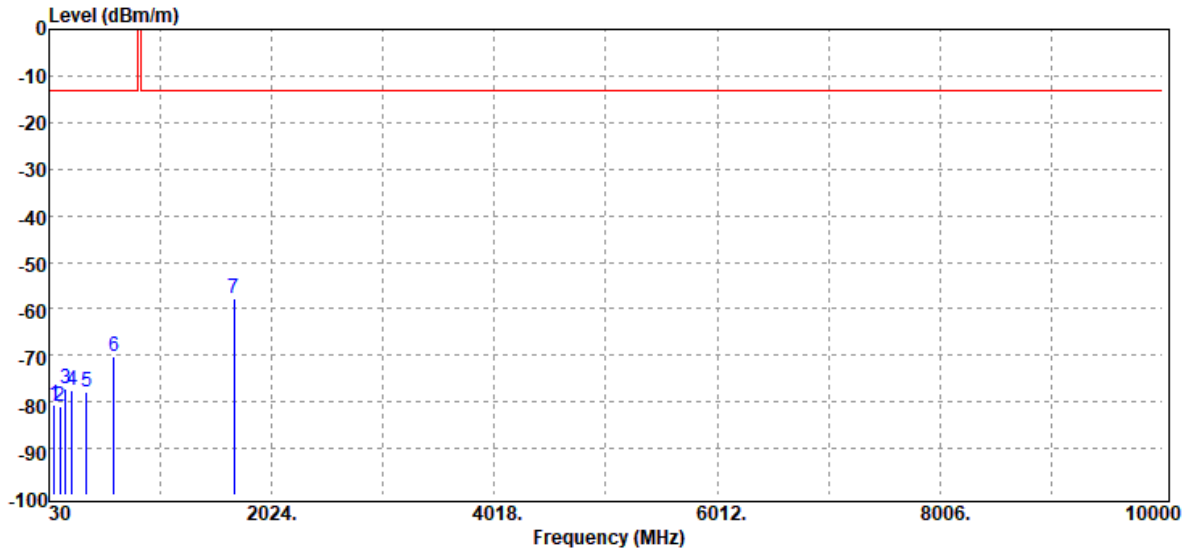
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Report Number :ER-2020-B0118
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :844 MHz

Test Site :SAC III Chamber
 Test Date :2020-12-17
 Temp./Humi. :22.4/60
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-80.47	-72.93	-6.71	-0.83	-13.00	-67.47
125.06	-81.03	-72.72	-7.29	-1.02	-13.00	-68.03
175.50	-77.12	-73.84	-2.04	-1.24	-13.00	-64.12
233.70	-77.47	-74.47	-1.55	-1.45	-13.00	-64.47
362.71	-77.72	-74.37	-1.64	-1.71	-13.00	-64.72
612.00	-70.32	-67.71	-0.63	-1.98	-13.00	-57.32
1688.00	-57.74	-63.80	9.98	-3.92	-13.00	-44.74

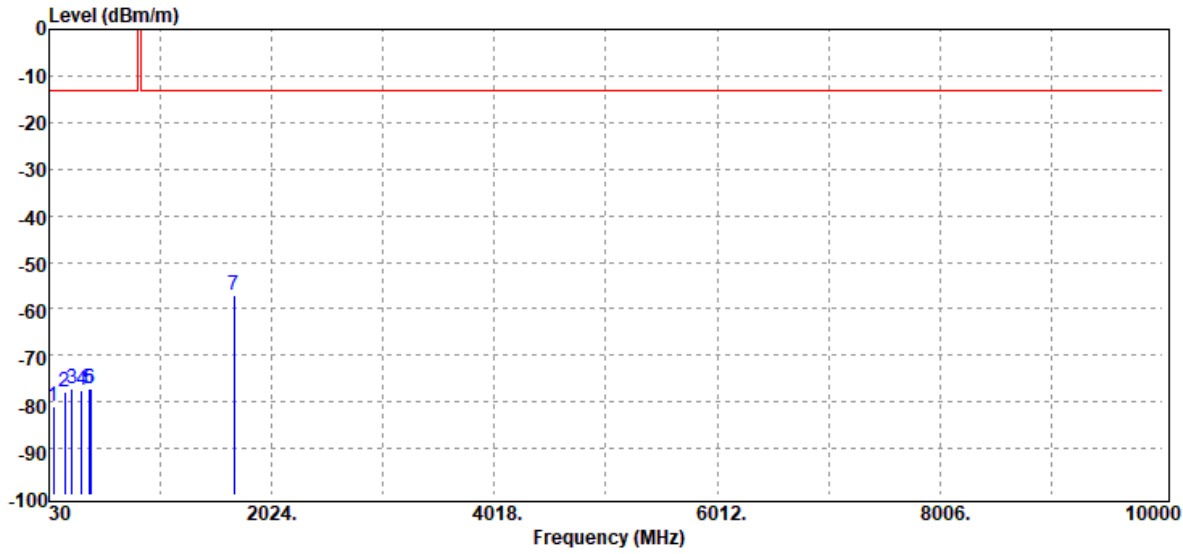
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Report Number :ER-2020-B0118
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :844 MHz

Test Site :SAC III Chamber
 Test Date :2020-12-17
 Temp./Humi. :22.4/60
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
69.77	-80.85	-73.24	-6.80	-0.81	-13.00	-67.85
173.56	-77.81	-74.32	-2.24	-1.25	-13.00	-64.81
233.70	-77.22	-74.22	-1.55	-1.45	-13.00	-64.22
321.00	-77.57	-74.69	-1.22	-1.66	-13.00	-64.57
384.05	-77.05	-74.03	-1.22	-1.80	-13.00	-64.05
400.54	-77.04	-73.57	-1.60	-1.87	-13.00	-64.04
1688.00	-57.18	-63.24	9.98	-3.92	-13.00	-44.18

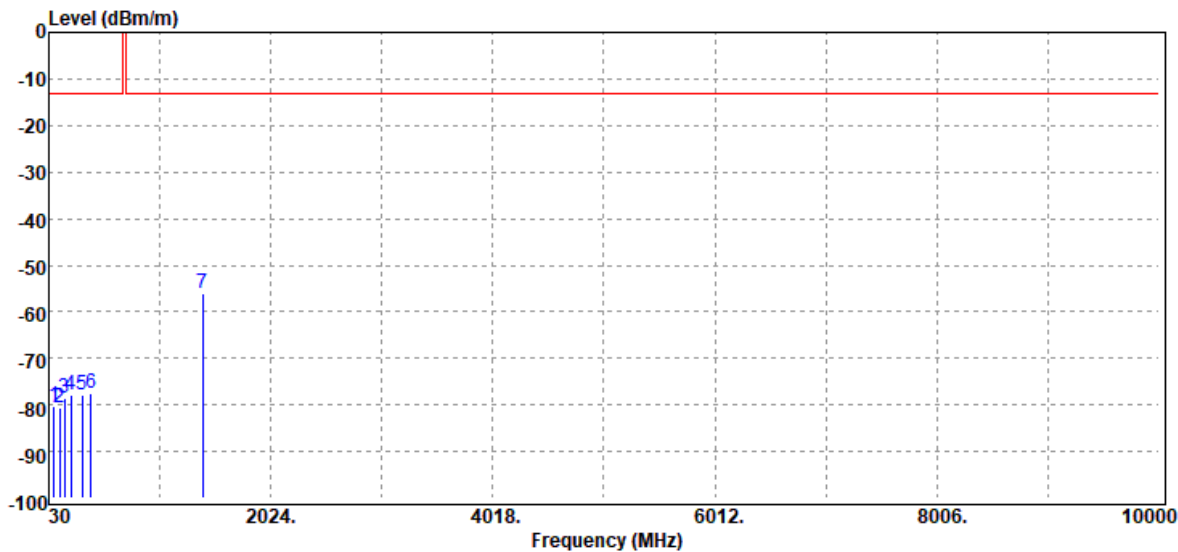
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Radiated Spurious Emission Measurement Result: LTE Band 12 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:LTE B12	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:704 MHz	Engineer	:Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
73.65	-80.16	-72.62	-6.71	-0.83	-13.00	-67.16
125.06	-80.62	-72.31	-7.29	-1.02	-13.00	-67.62
173.56	-78.41	-74.92	-2.24	-1.25	-13.00	-65.41
226.91	-77.92	-75.31	-1.20	-1.41	-13.00	-64.92
328.76	-77.87	-75.02	-1.16	-1.69	-13.00	-64.87
410.24	-77.40	-73.54	-1.98	-1.88	-13.00	-64.40
1408.00	-56.13	-60.50	7.95	-3.58	-13.00	-43.13

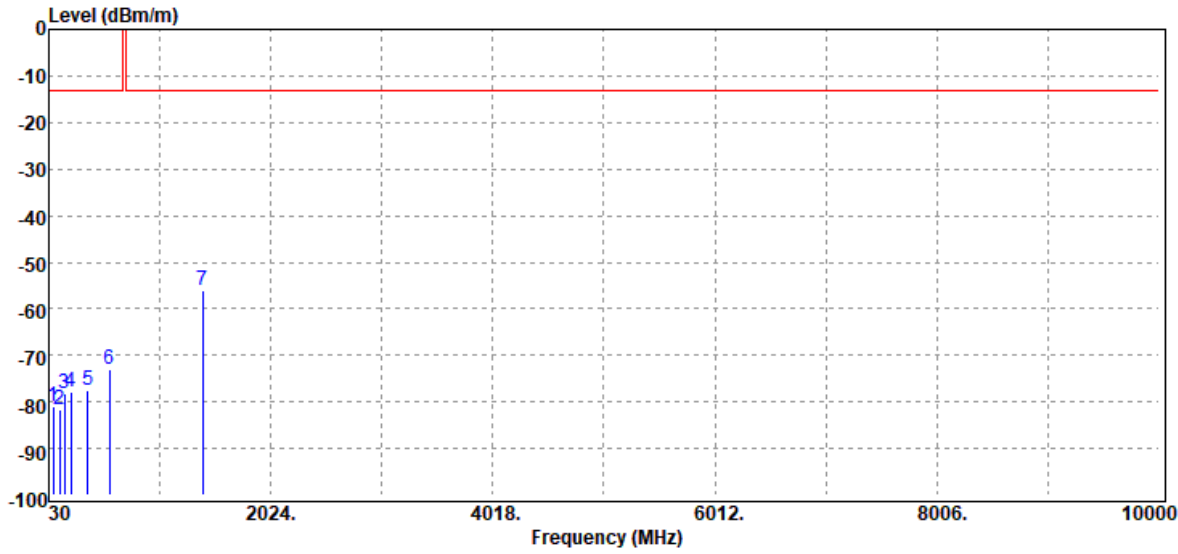
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Report Number :ER-2020-B0118
Operation Mode :LTE B12
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :704 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-81.02	-73.14	-7.07	-0.81	-13.00	-68.02
129.91	-81.73	-73.70	-7.05	-0.98	-13.00	-68.73
172.59	-78.36	-74.77	-2.33	-1.26	-13.00	-65.36
231.76	-77.91	-75.00	-1.47	-1.44	-13.00	-64.91
377.26	-77.60	-74.57	-1.24	-1.79	-13.00	-64.60
575.14	-73.00	-69.88	-0.74	-2.38	-13.00	-60.00
1408.00	-56.01	-60.38	7.95	-3.58	-13.00	-43.01

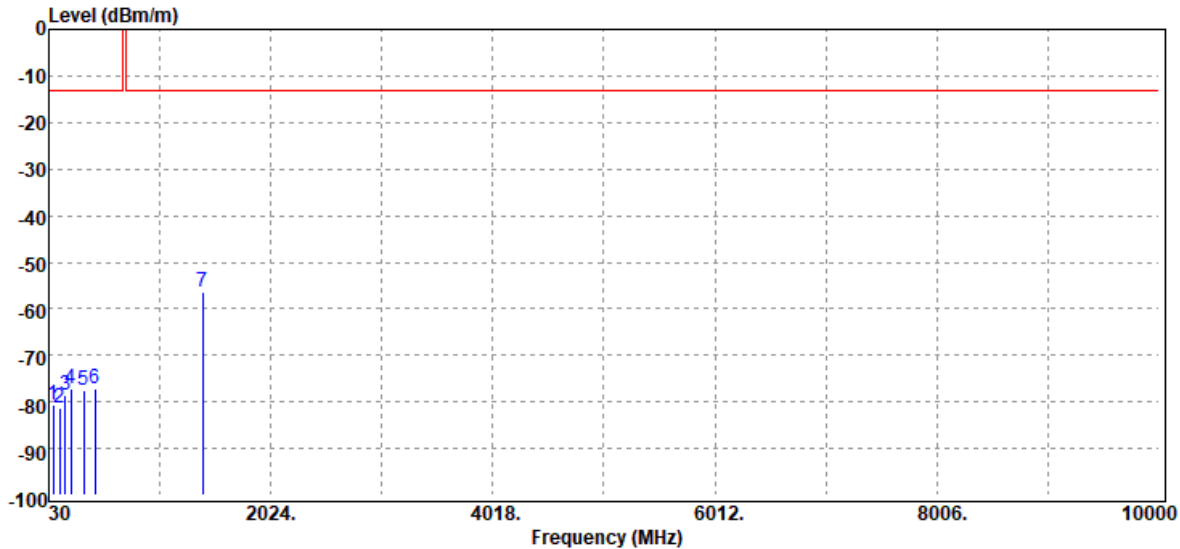
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Report Number :ER-2020-B0118
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :707.5 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.70	-73.04	-6.84	-0.82	-13.00	-67.70
125.06	-81.35	-73.04	-7.29	-1.02	-13.00	-68.35
177.44	-78.39	-75.25	-1.90	-1.24	-13.00	-65.39
230.79	-77.15	-74.29	-1.43	-1.43	-13.00	-64.15
343.31	-77.37	-74.17	-1.35	-1.85	-13.00	-64.37
442.25	-77.25	-74.16	-1.20	-1.89	-13.00	-64.25
1415.00	-56.34	-60.74	7.99	-3.59	-13.00	-43.34

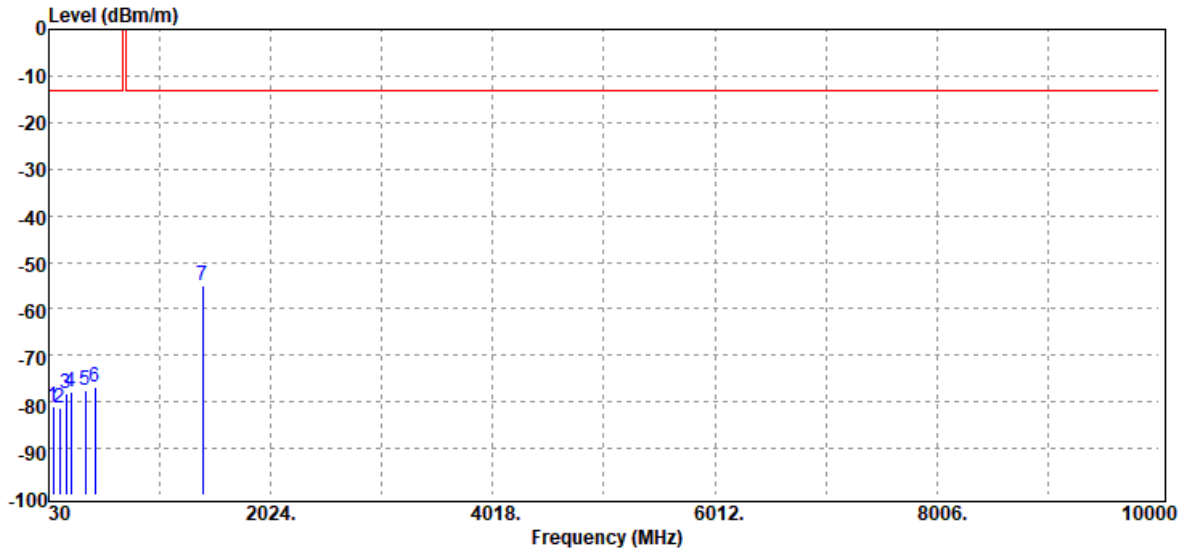
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Report Number :ER-2020-B0118
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :707.5 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
66.86	-80.85	-72.92	-7.14	-0.79	-13.00	-67.85
127.00	-81.18	-72.92	-7.25	-1.01	-13.00	-68.18
185.20	-78.26	-75.46	-1.55	-1.25	-13.00	-65.26
228.85	-78.00	-75.26	-1.32	-1.42	-13.00	-65.00
357.86	-77.38	-73.98	-1.67	-1.73	-13.00	-64.38
444.19	-76.95	-73.84	-1.24	-1.87	-13.00	-63.95
1415.00	-55.01	-59.41	7.99	-3.59	-13.00	-42.01

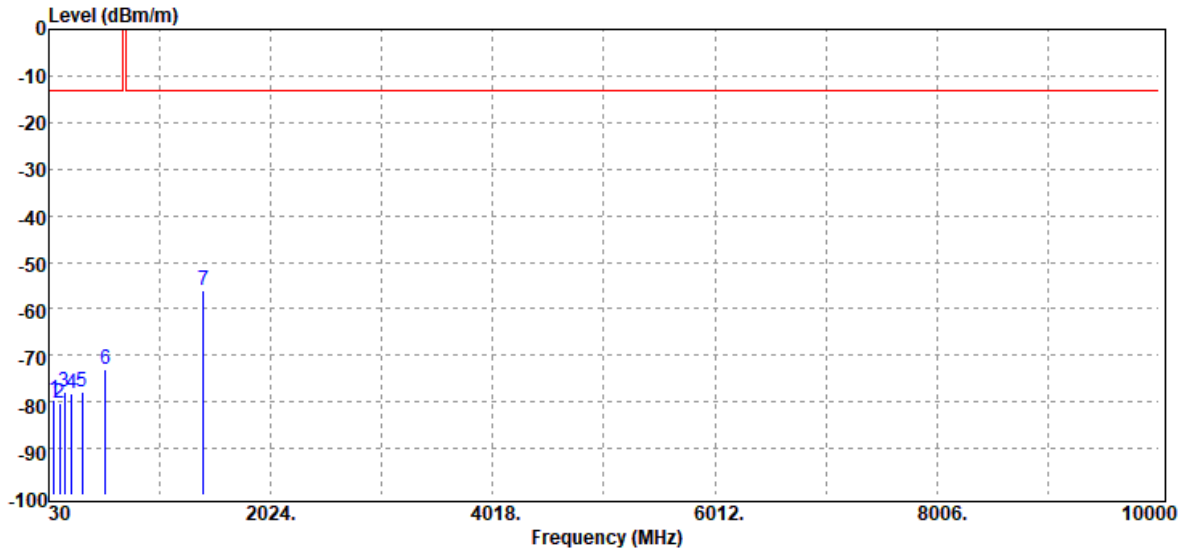
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Report Number :ER-2020-B0118
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :711 MHz

Test Site :SAC III Chamber
 Test Date :2020-12-17
 Temp./Humi. :22.4/60
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
73.65	-79.68	-72.14	-6.71	-0.83	-13.00	-66.68
125.06	-80.44	-72.13	-7.29	-1.02	-13.00	-67.44
170.65	-78.01	-74.16	-2.58	-1.27	-13.00	-65.01
238.55	-78.27	-75.04	-1.76	-1.47	-13.00	-65.27
327.79	-77.83	-74.97	-1.17	-1.69	-13.00	-64.83
539.25	-73.12	-70.14	-1.06	-1.92	-13.00	-60.12
1422.00	-55.97	-60.41	8.03	-3.59	-13.00	-42.97

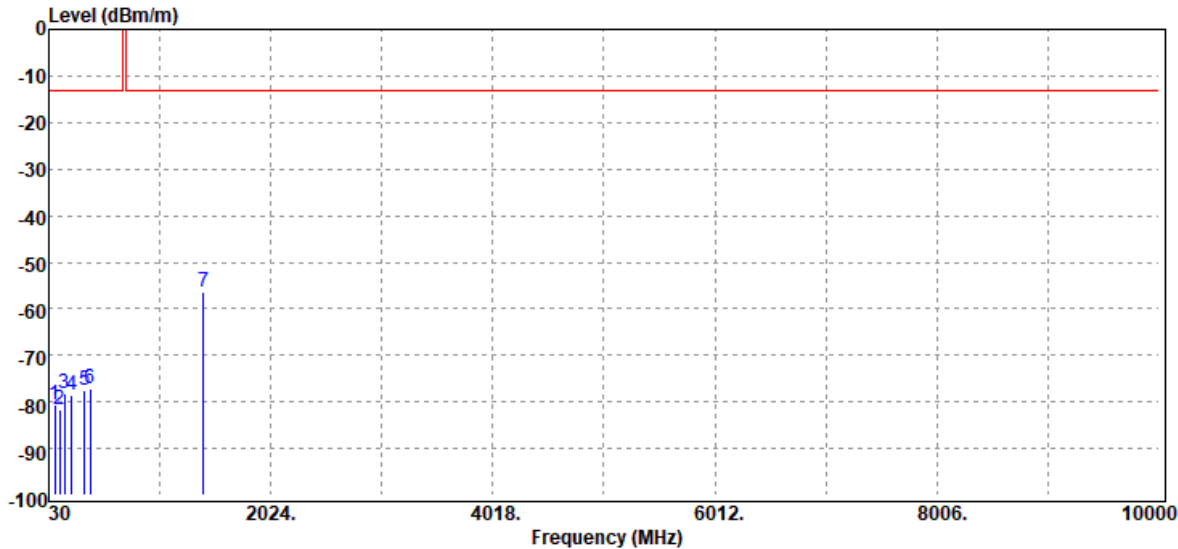
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Report Number :ER-2020-B0118
Operation Mode :LTE B12
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :711 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
83.35	-80.75	-73.40	-6.48	-0.87	-13.00	-67.75
128.94	-81.70	-73.59	-7.12	-0.99	-13.00	-68.70
173.56	-78.31	-74.82	-2.24	-1.25	-13.00	-65.31
238.55	-78.48	-75.25	-1.76	-1.47	-13.00	-65.48
353.01	-77.58	-74.24	-1.55	-1.79	-13.00	-64.58
401.51	-77.01	-73.53	-1.61	-1.87	-13.00	-64.01
1422.00	-56.24	-60.68	8.03	-3.59	-13.00	-43.24

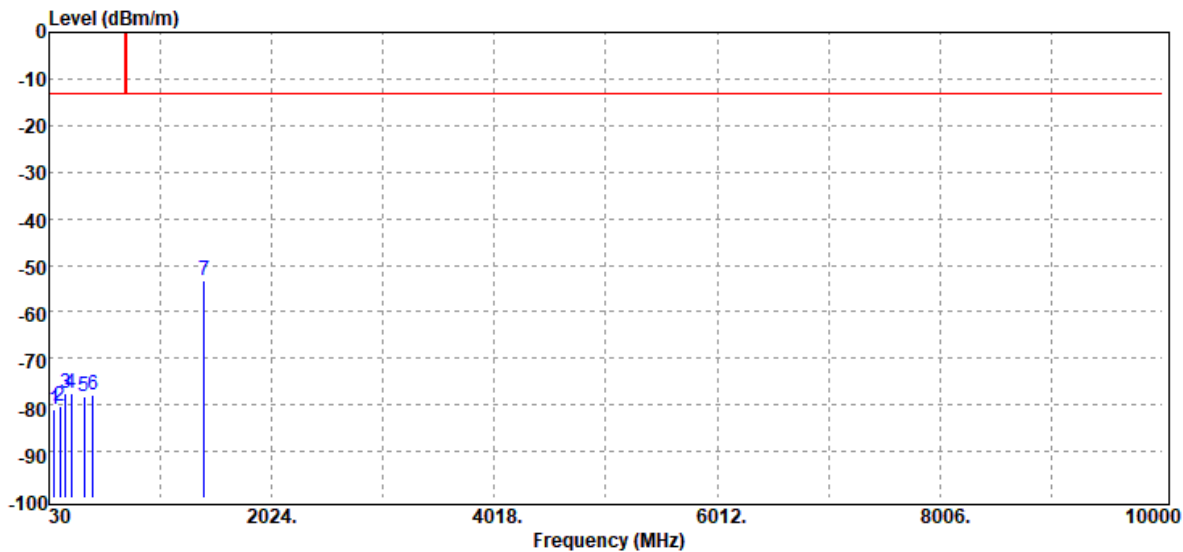
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Radiated Spurious Emission Measurement Result: LTE Band 17 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:LTE B17	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:709 MHz	Engineer	:Nick



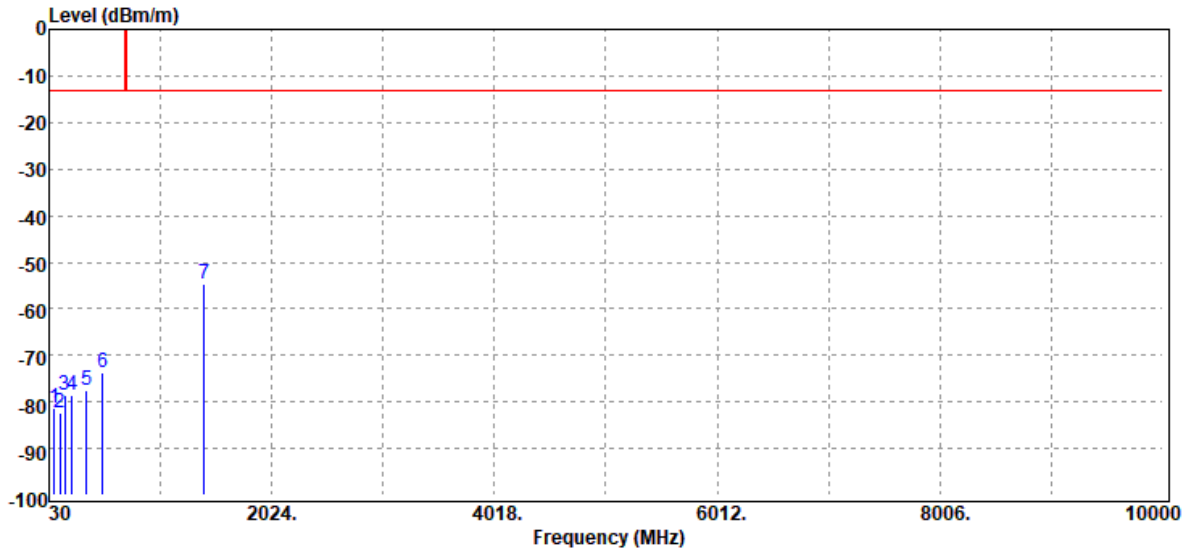
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
76.56	-81.06	-73.62	-6.60	-0.84	-13.00	-68.06
129.91	-80.43	-72.40	-7.05	-0.98	-13.00	-67.43
175.50	-77.38	-74.10	-2.04	-1.24	-13.00	-64.38
225.94	-77.56	-75.02	-1.14	-1.40	-13.00	-64.56
345.25	-78.21	-74.99	-1.37	-1.85	-13.00	-65.21
424.79	-77.99	-74.19	-1.67	-2.13	-13.00	-64.99
1418.00	-53.29	-57.71	8.01	-3.59	-13.00	-40.29

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Report Number :ER-2020-B0118
Operation Mode :LTE B17
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :709 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
80.44	-81.26	-73.89	-6.52	-0.85	-13.00	-68.26
128.94	-82.42	-74.31	-7.12	-0.99	-13.00	-69.42
173.56	-78.40	-74.91	-2.24	-1.25	-13.00	-65.40
235.64	-78.41	-75.32	-1.63	-1.46	-13.00	-65.41
367.56	-77.58	-74.38	-1.47	-1.73	-13.00	-64.58
510.15	-73.80	-70.35	-1.07	-2.38	-13.00	-60.80
1418.00	-54.73	-59.15	8.01	-3.59	-13.00	-41.73

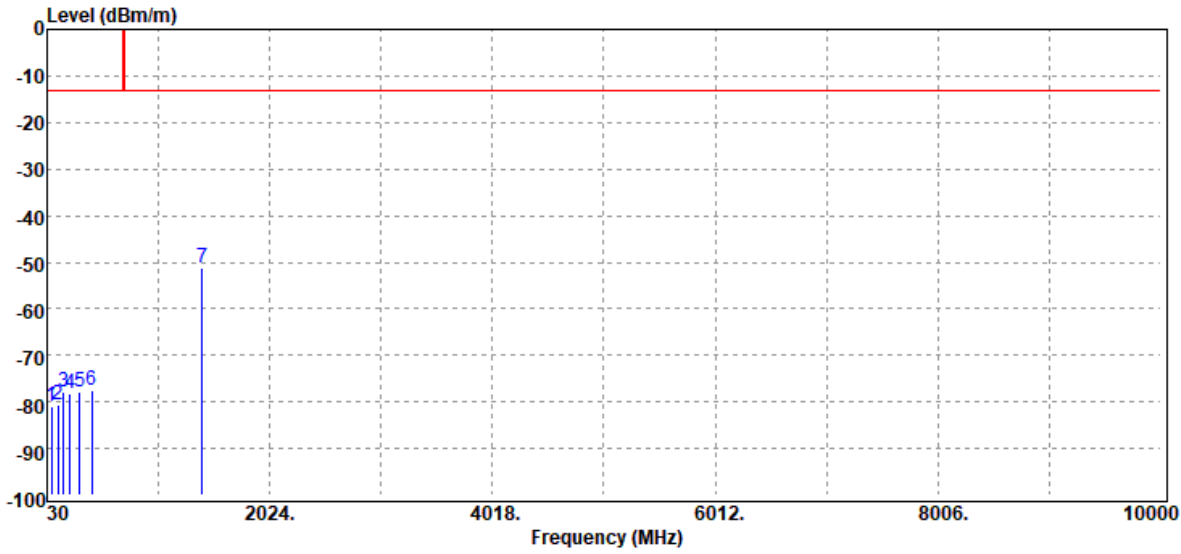
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Report Number :ER-2020-B0118
 Operation Mode :LTE B17
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :710 MHz

Test Site :SAC III Chamber
 Test Date :2020-12-17
 Temp./Humi. :22.4/60
 Antenna Pol. :VERTICAL
 Engineer :Nick



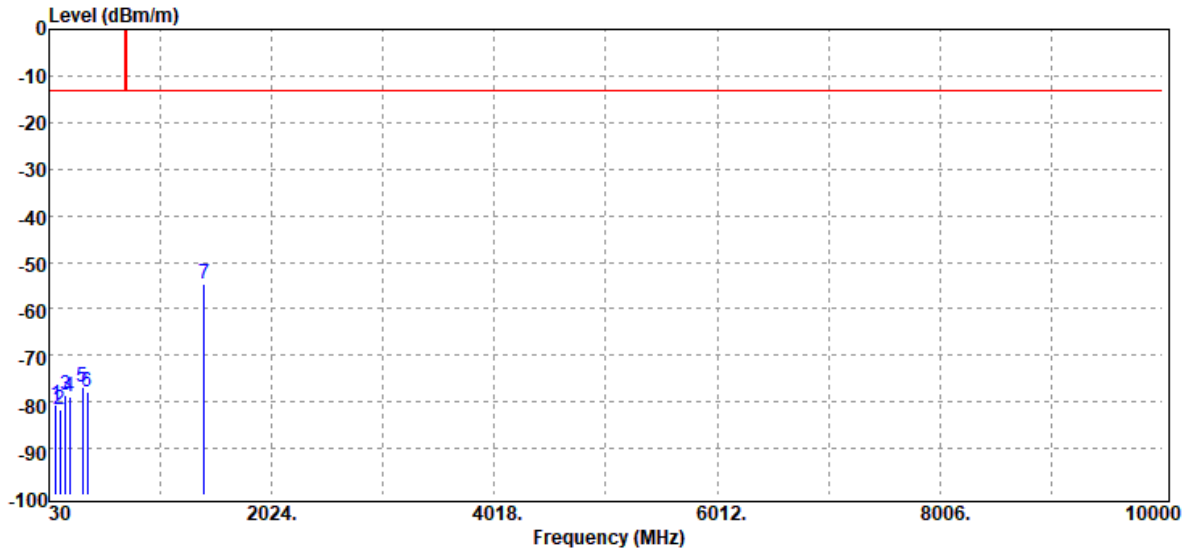
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-80.92	-73.26	-6.84	-0.82	-13.00	-67.92
125.06	-80.68	-72.37	-7.29	-1.02	-13.00	-67.68
175.50	-77.95	-74.67	-2.04	-1.24	-13.00	-64.95
233.70	-78.24	-75.24	-1.55	-1.45	-13.00	-65.24
323.91	-77.90	-75.03	-1.20	-1.67	-13.00	-64.90
430.61	-77.43	-73.91	-1.36	-2.16	-13.00	-64.43
1420.00	-51.30	-55.73	8.02	-3.59	-13.00	-38.30

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Report Number :ER-2020-B0118
Operation Mode :LTE B17
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :710 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick


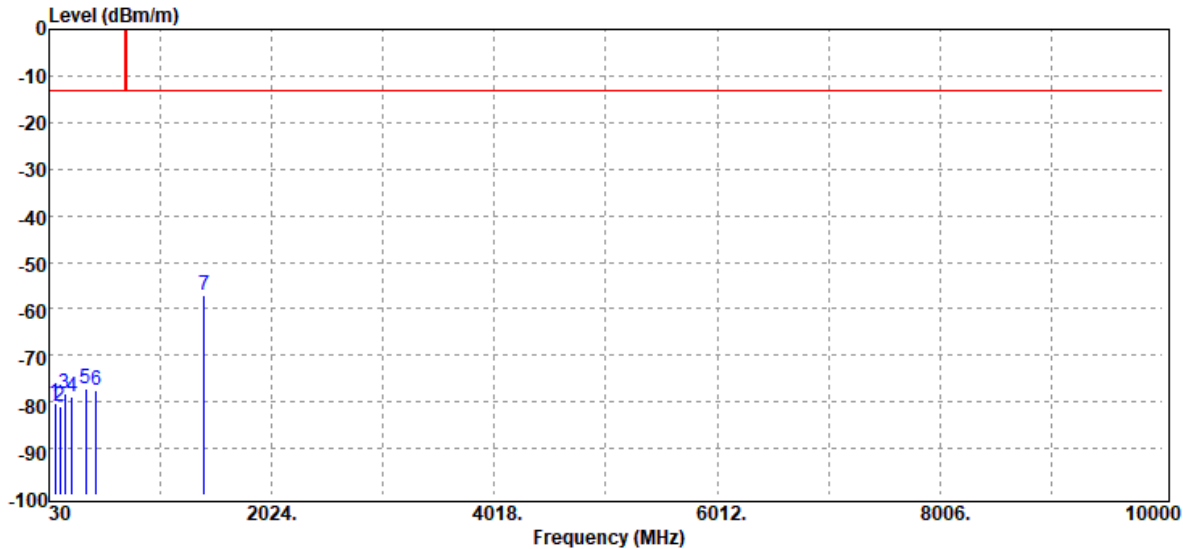
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-80.48	-72.65	-6.94	-0.89	-13.00	-67.48
127.00	-81.83	-73.57	-7.25	-1.01	-13.00	-68.83
178.41	-78.64	-75.61	-1.80	-1.23	-13.00	-65.64
216.24	-78.74	-76.39	-0.98	-1.37	-13.00	-65.74
328.76	-76.90	-74.05	-1.16	-1.69	-13.00	-63.90
372.41	-77.77	-74.70	-1.31	-1.76	-13.00	-64.77
1420.00	-54.81	-59.24	8.02	-3.59	-13.00	-41.81

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Report Number :ER-2020-B0118
Operation Mode :LTE B17
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :711 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
83.35	-80.21	-72.86	-6.48	-0.87	-13.00	-67.21
125.06	-80.92	-72.61	-7.29	-1.02	-13.00	-67.92
170.65	-78.22	-74.37	-2.58	-1.27	-13.00	-65.22
233.70	-78.79	-75.79	-1.55	-1.45	-13.00	-65.79
361.74	-76.99	-73.62	-1.66	-1.71	-13.00	-63.99
449.04	-77.65	-74.74	-1.10	-1.81	-13.00	-64.65
1422.00	-57.06	-61.50	8.03	-3.59	-13.00	-44.06

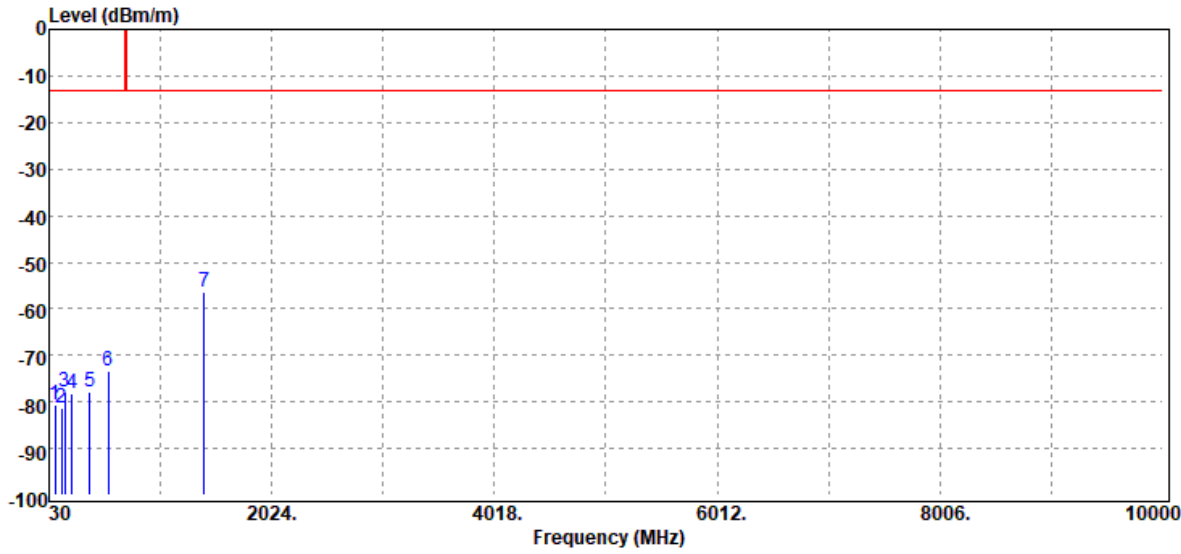
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Report Number :ER-2020-B0118
 Operation Mode :LTE B17
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :711 MHz

Test Site :SAC III Chamber
 Test Date :2020-12-17
 Temp./Humi. :22.4/60
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
86.26	-80.61	-73.07	-6.66	-0.88	-13.00	-67.61
143.49	-81.34	-74.71	-5.49	-1.14	-13.00	-68.34
173.56	-77.86	-74.37	-2.24	-1.25	-13.00	-64.86
235.64	-78.24	-75.15	-1.63	-1.46	-13.00	-65.24
390.84	-77.96	-74.82	-1.34	-1.80	-13.00	-64.96
563.50	-73.19	-70.07	-0.84	-2.28	-13.00	-60.19
1422.00	-56.34	-60.78	8.03	-3.59	-13.00	-43.34

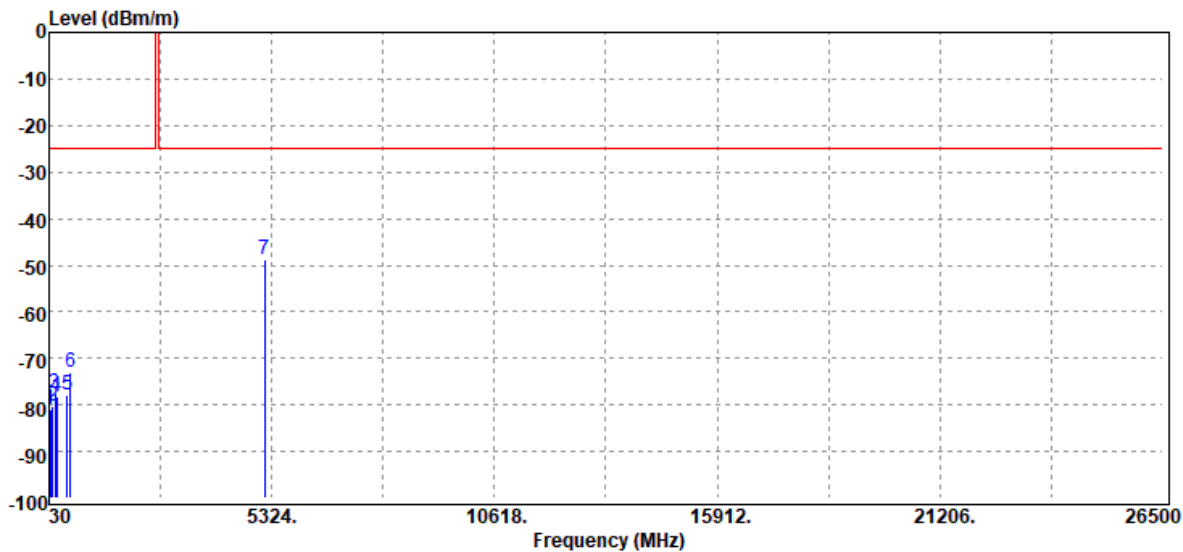
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Radiated Spurious Emission Measurement Result: LTE Band 38 Mode

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2580 MHz	Engineer	:Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.89	-80.91	-72.77	-7.35	-0.79	-25.00	-55.91
125.06	-80.17	-71.86	-7.29	-1.02	-25.00	-55.17
168.71	-77.53	-73.49	-2.78	-1.26	-25.00	-52.53
221.09	-78.26	-75.89	-1.00	-1.37	-25.00	-53.26
456.80	-77.68	-74.73	-1.10	-1.85	-25.00	-52.68
529.55	-73.13	-70.45	-0.84	-1.84	-25.00	-48.13
5160.00	-48.69	-54.24	12.56	-7.01	-25.00	-23.69

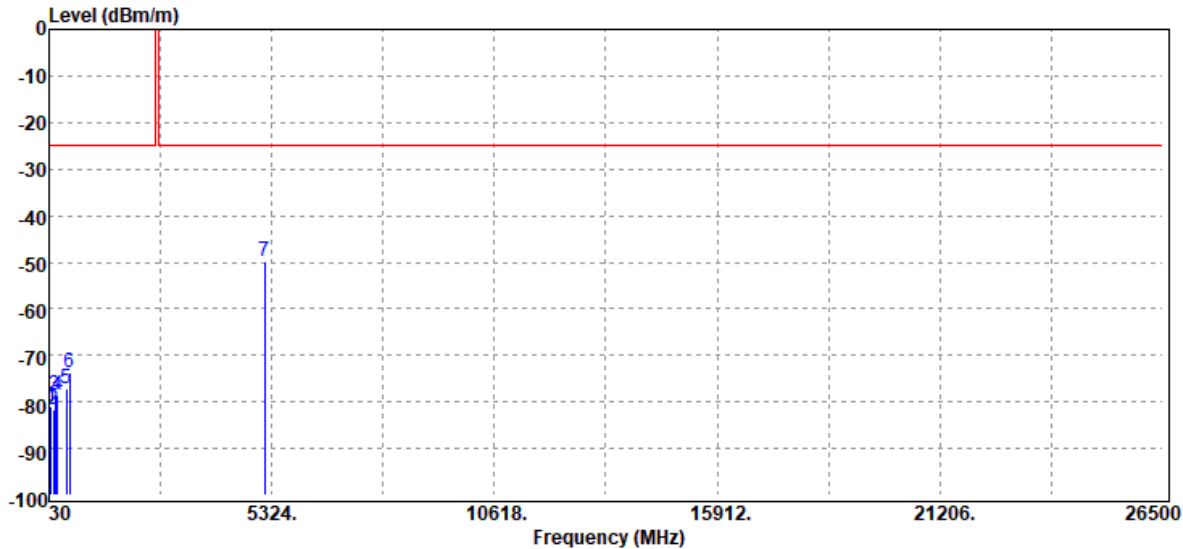
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Report Number :ER-2020-B0118
Operation Mode :LTE B38
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :2580 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
71.71	-81.00	-73.34	-6.84	-0.82	-25.00	-56.00
128.94	-81.49	-73.38	-7.12	-0.99	-25.00	-56.49
177.44	-78.57	-75.43	-1.90	-1.24	-25.00	-53.57
235.64	-78.63	-75.54	-1.63	-1.46	-25.00	-53.63
447.10	-77.21	-74.20	-1.18	-1.83	-25.00	-52.21
524.70	-73.65	-70.82	-0.83	-2.00	-25.00	-48.65
5160.00	-49.91	-55.46	12.56	-7.01	-25.00	-24.91

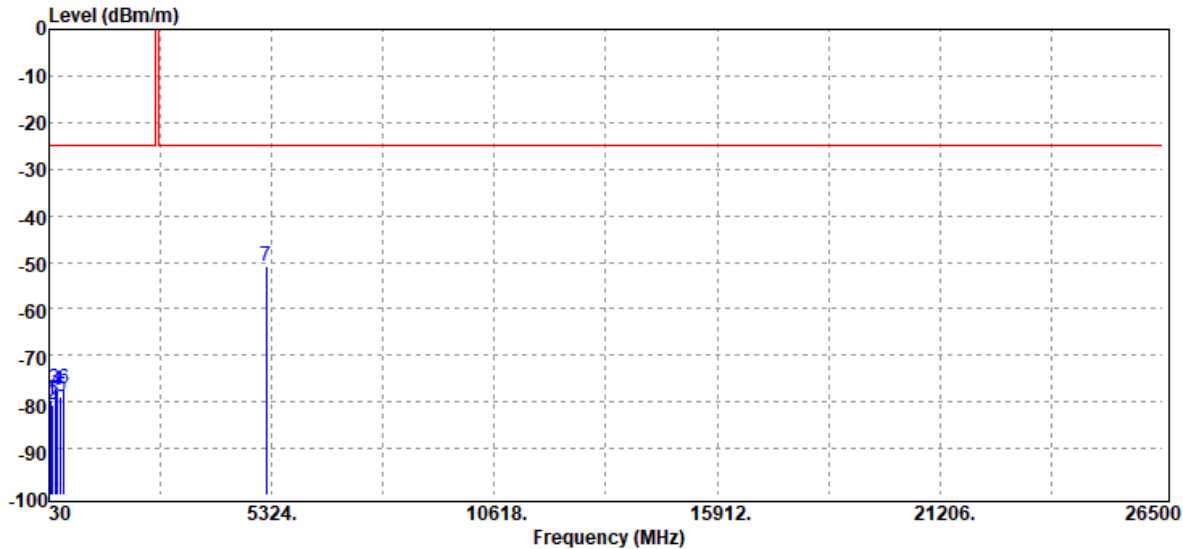
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Report Number :ER-2020-B0118
Operation Mode :LTE B38
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :2595 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-79.71	-72.17	-6.71	-0.83	-25.00	-54.71
125.06	-80.54	-72.23	-7.29	-1.02	-25.00	-55.54
177.44	-77.28	-74.14	-1.90	-1.24	-25.00	-52.28
233.70	-77.41	-74.41	-1.55	-1.45	-25.00	-52.41
303.54	-78.84	-75.88	-1.35	-1.61	-25.00	-53.84
388.90	-77.31	-74.22	-1.29	-1.80	-25.00	-52.31
5190.00	-50.74	-56.35	12.74	-7.13	-25.00	-25.74

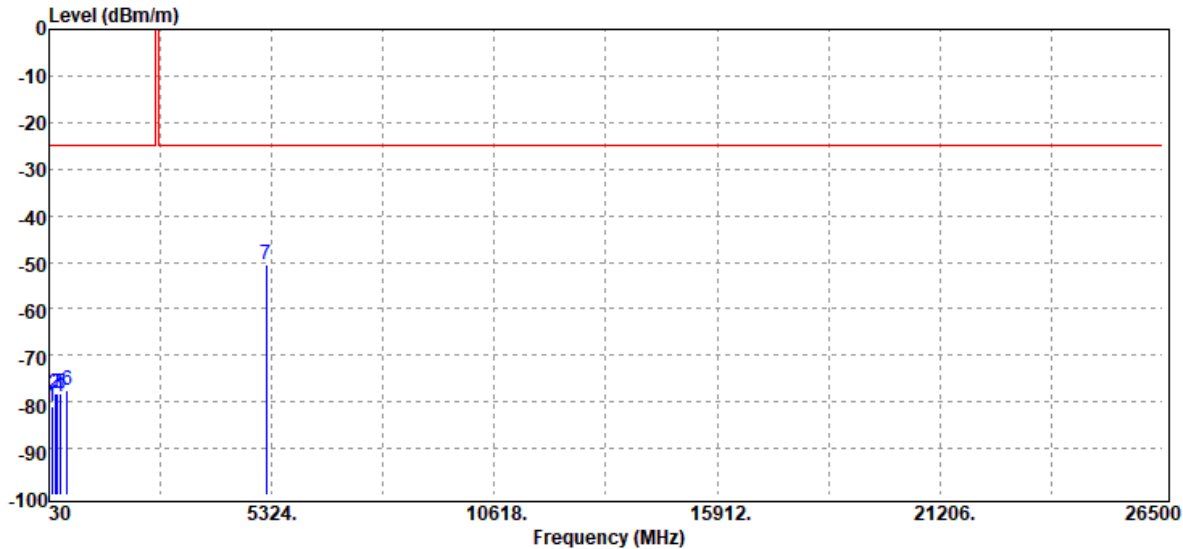
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Report Number :ER-2020-B0118
Operation Mode :LTE B38
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :2595 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
88.20	-80.85	-73.02	-6.94	-0.89	-25.00	-55.85
175.50	-78.33	-75.05	-2.04	-1.24	-25.00	-53.33
235.64	-78.22	-75.13	-1.63	-1.46	-25.00	-53.22
288.99	-78.88	-75.78	-1.49	-1.61	-25.00	-53.88
314.21	-78.31	-75.34	-1.35	-1.62	-25.00	-53.31
463.59	-77.40	-74.37	-1.10	-1.93	-25.00	-52.40
5190.00	-50.37	-55.98	12.74	-7.13	-25.00	-25.37

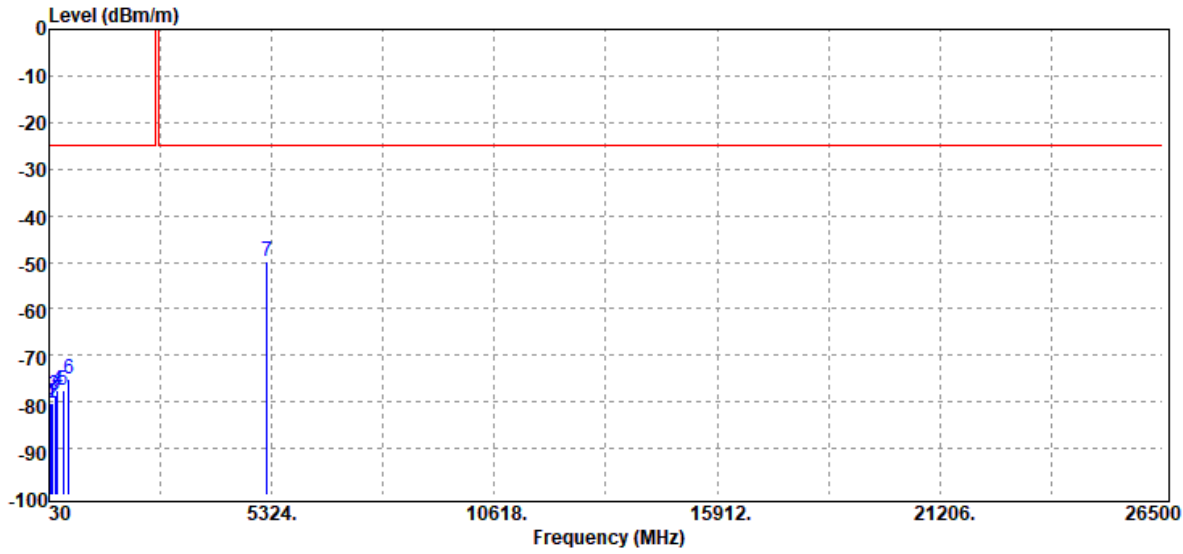
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Report Number :ER-2020-B0118
Operation Mode :LTE B38
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :2610 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-80.25	-72.37	-7.07	-0.81	-25.00	-55.25
125.06	-80.14	-71.83	-7.29	-1.02	-25.00	-55.14
168.71	-78.46	-74.42	-2.78	-1.26	-25.00	-53.46
226.91	-77.63	-75.02	-1.20	-1.41	-25.00	-52.63
369.50	-77.56	-74.44	-1.38	-1.74	-25.00	-52.56
505.30	-74.95	-71.66	-0.97	-2.32	-25.00	-49.95
5220.00	-49.97	-55.72	12.92	-7.17	-25.00	-24.97

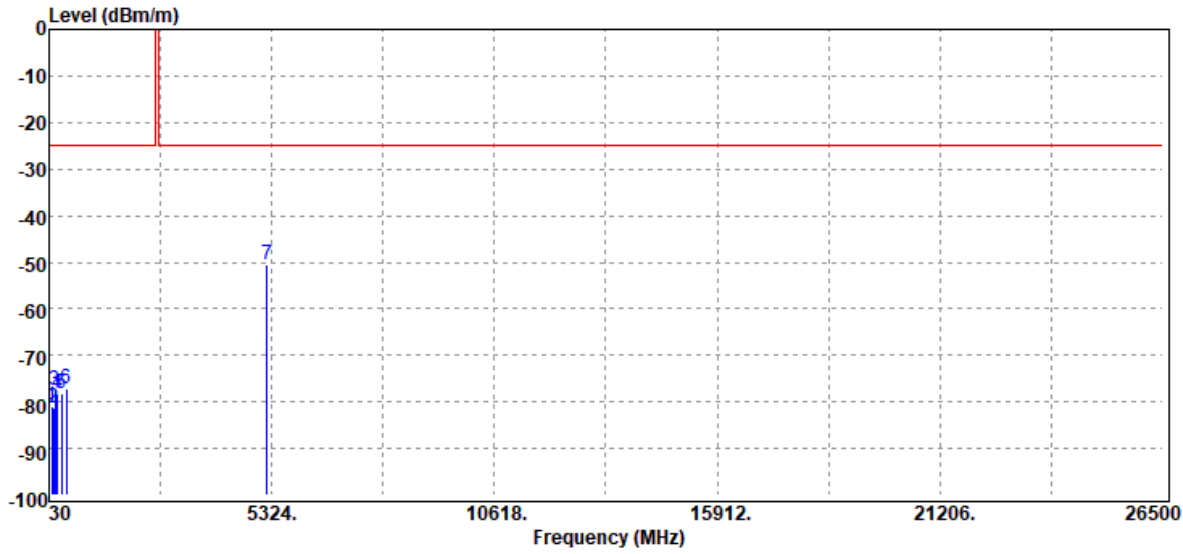
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Report Number :ER-2020-B0118
Operation Mode :LTE B38
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :2610 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-81.12	-73.29	-6.94	-0.89	-25.00	-56.12
128.94	-81.23	-73.12	-7.12	-0.99	-25.00	-56.23
175.50	-77.49	-74.21	-2.04	-1.24	-25.00	-52.49
235.64	-78.37	-75.28	-1.63	-1.46	-25.00	-53.37
329.73	-78.31	-75.45	-1.16	-1.70	-25.00	-53.31
445.16	-77.04	-73.94	-1.25	-1.85	-25.00	-52.04
5220.00	-50.60	-56.35	12.92	-7.17	-25.00	-25.60

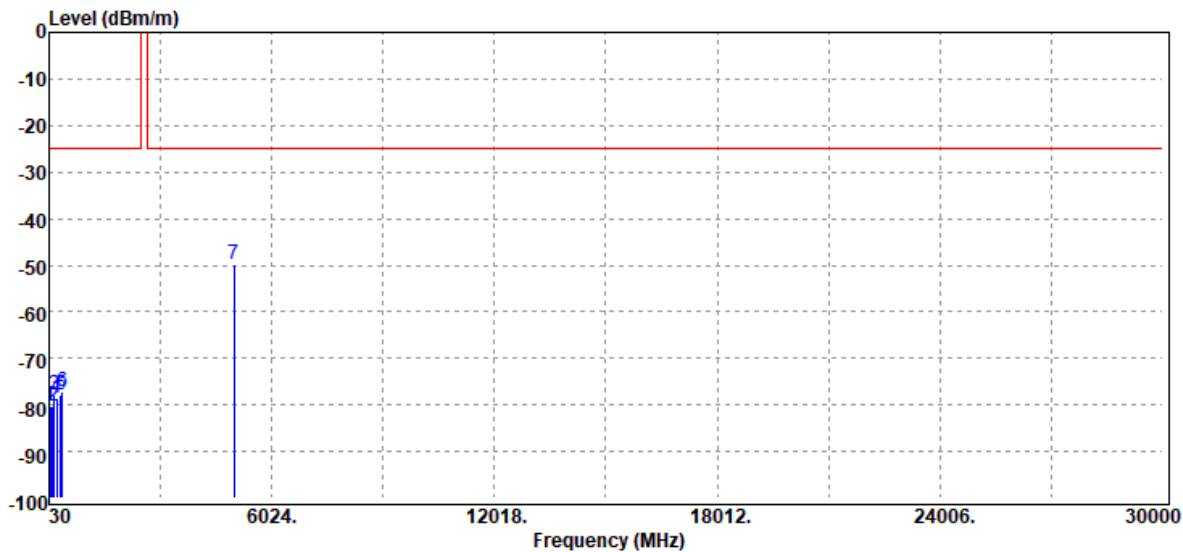
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Radiated Spurious Emission Measurement Result: LTE Band 41 Mode_Main

Report Number	:ER-2020-B0118	Test Site	:SAC III Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2506 MHz	Engineer	:Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.89	-80.36	-72.22	-7.35	-0.79	-25.00	-55.36
125.06	-80.38	-72.07	-7.29	-1.02	-25.00	-55.38
177.44	-77.86	-74.72	-1.90	-1.24	-25.00	-52.86
233.70	-78.50	-75.50	-1.55	-1.45	-25.00	-53.50
350.10	-77.81	-74.53	-1.45	-1.83	-25.00	-52.81
395.69	-77.17	-73.82	-1.51	-1.84	-25.00	-52.17
5012.00	-49.73	-55.37	12.50	-6.86	-25.00	-24.73

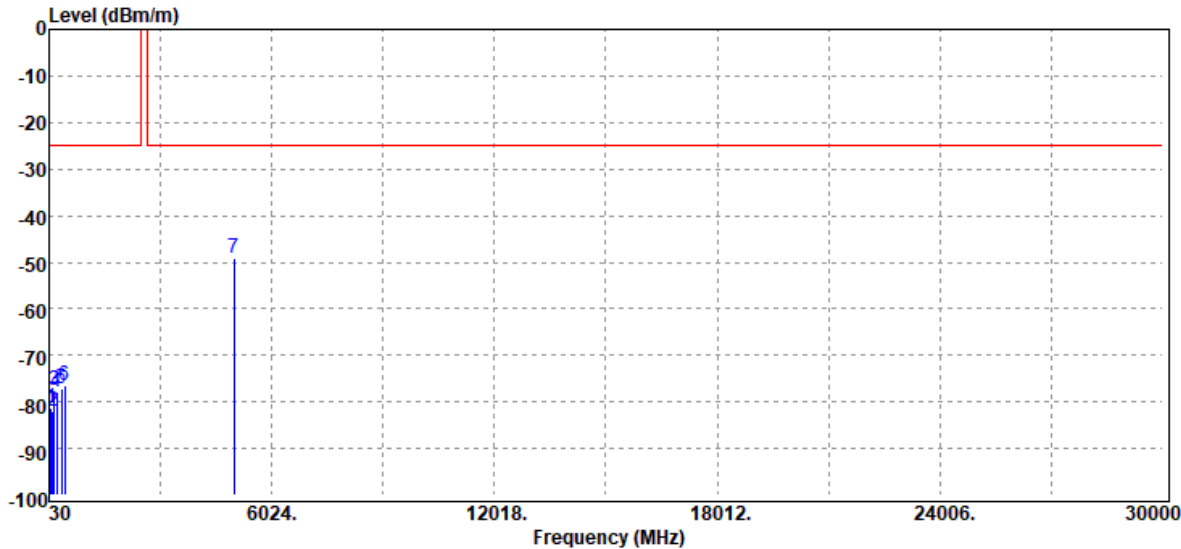
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Report Number :ER-2020-B0118
Operation Mode :LTE B41
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :2506 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
88.20	-81.37	-73.54	-6.94	-0.89	-25.00	-56.37
129.91	-81.98	-73.95	-7.05	-0.98	-25.00	-56.98
178.41	-77.68	-74.65	-1.80	-1.23	-25.00	-52.68
238.55	-77.69	-74.46	-1.76	-1.47	-25.00	-52.69
367.56	-77.16	-73.96	-1.47	-1.73	-25.00	-52.16
445.16	-76.43	-73.33	-1.25	-1.85	-25.00	-51.43
5012.00	-49.12	-54.76	12.50	-6.86	-25.00	-24.12

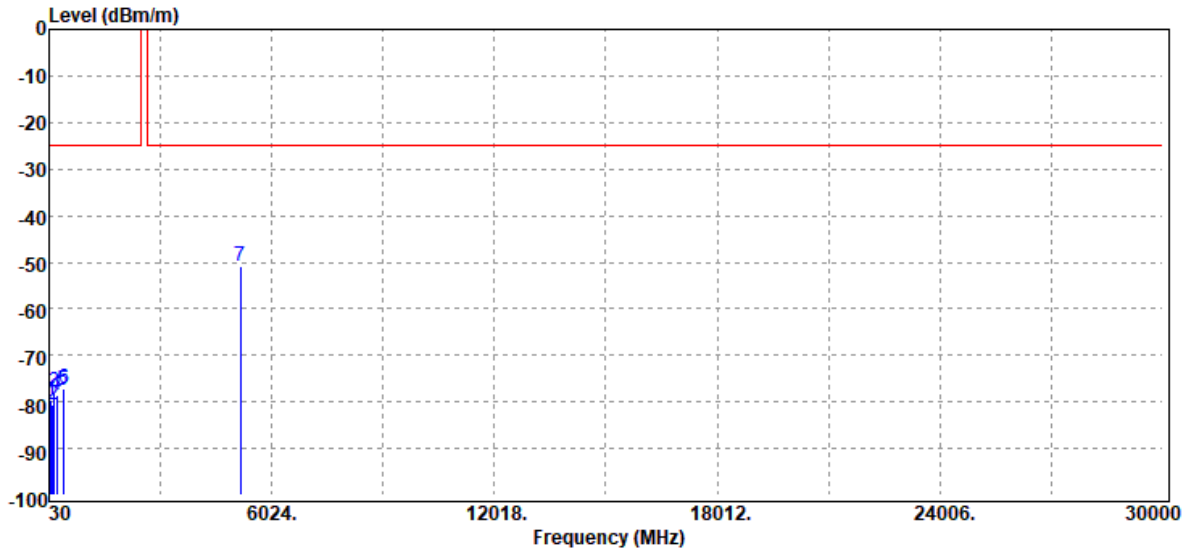
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Report Number :ER-2020-B0118
Operation Mode :LTE B41
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :2593 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-79.59	-72.05	-6.71	-0.83	-25.00	-54.59
129.91	-80.78	-72.75	-7.05	-0.98	-25.00	-55.78
172.59	-77.82	-74.23	-2.33	-1.26	-25.00	-52.82
233.70	-78.46	-75.46	-1.55	-1.45	-25.00	-53.46
400.54	-77.63	-74.16	-1.60	-1.87	-25.00	-52.63
437.40	-77.10	-73.86	-1.26	-1.98	-25.00	-52.10
5186.00	-51.03	-56.64	12.72	-7.11	-25.00	-26.03

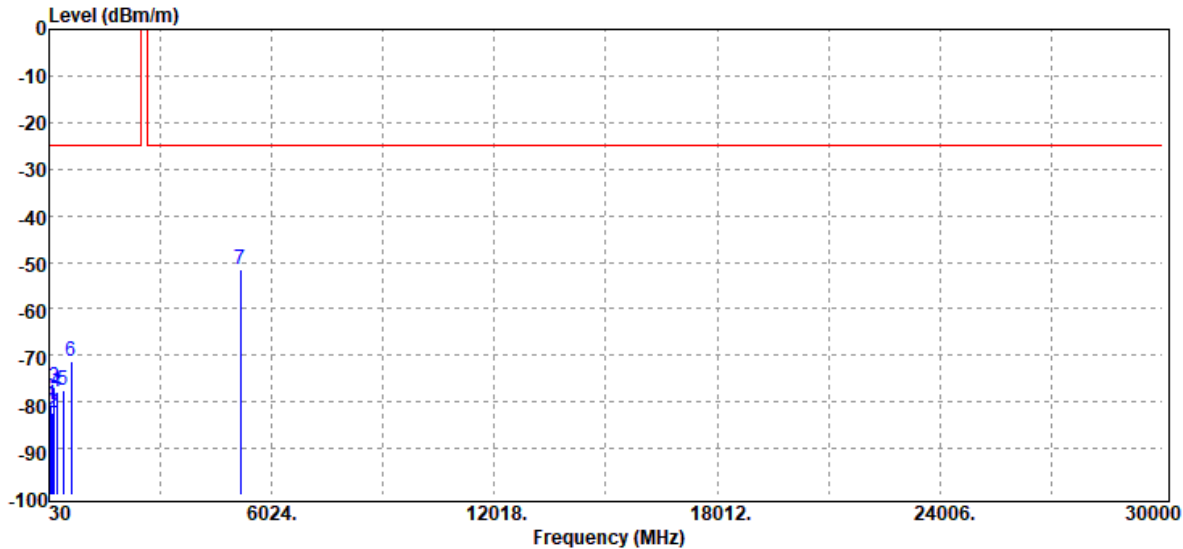
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Report Number :ER-2020-B0118
Operation Mode :LTE B41
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :2593 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
88.20	-80.53	-72.70	-6.94	-0.89	-25.00	-55.53
128.94	-82.37	-74.26	-7.12	-0.99	-25.00	-57.37
175.50	-76.96	-73.68	-2.04	-1.24	-25.00	-51.96
231.76	-77.71	-74.80	-1.47	-1.44	-25.00	-52.71
401.51	-77.52	-74.04	-1.61	-1.87	-25.00	-52.52
621.70	-71.35	-68.63	-0.62	-2.10	-25.00	-46.35
5186.00	-51.46	-57.07	12.72	-7.11	-25.00	-26.46

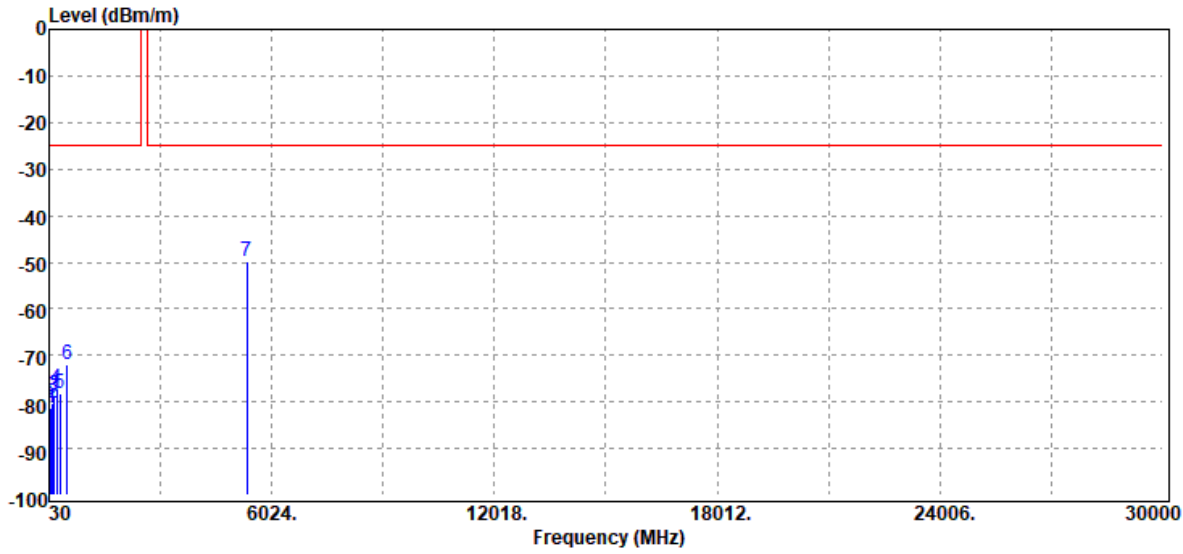
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Report Number :ER-2020-B0118
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :2680 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
91.11	-81.19	-73.01	-7.27	-0.91	-25.00	-56.19
125.06	-80.20	-71.89	-7.29	-1.02	-25.00	-55.20
170.65	-78.58	-74.73	-2.58	-1.27	-25.00	-53.58
225.94	-77.09	-74.55	-1.14	-1.40	-25.00	-52.09
328.76	-78.21	-75.36	-1.16	-1.69	-25.00	-53.21
522.76	-71.88	-68.95	-0.86	-2.07	-25.00	-46.88
5360.00	-49.76	-56.00	13.28	-7.04	-25.00	-24.76

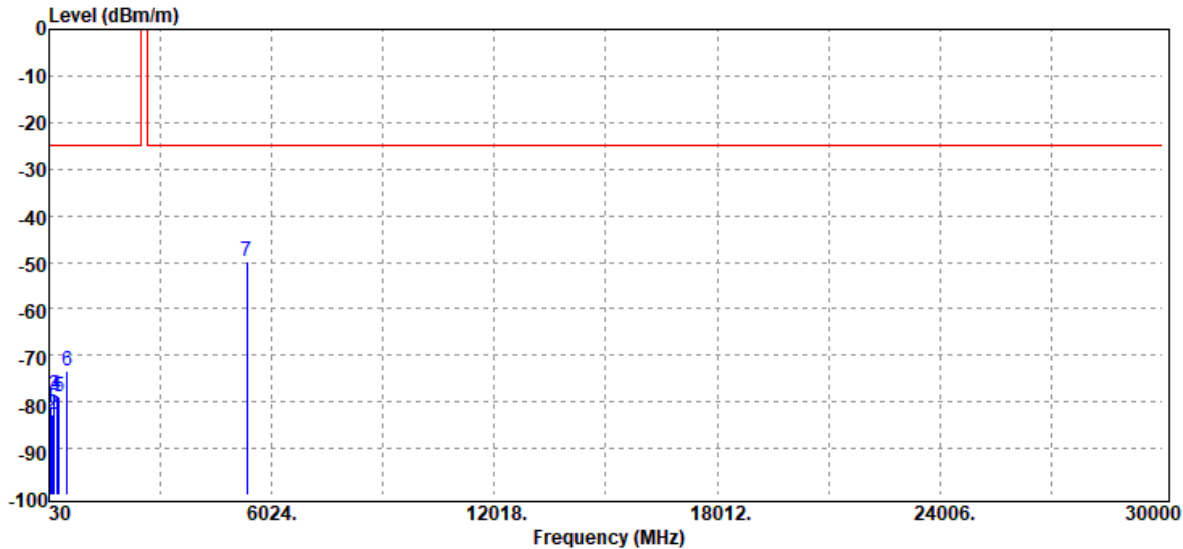
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Report Number :ER-2020-B0118
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :2680 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-81.47	-73.86	-6.80	-0.81	-25.00	-56.47
129.91	-82.80	-74.77	-7.05	-0.98	-25.00	-57.80
173.56	-78.52	-75.03	-2.24	-1.25	-25.00	-53.52
233.70	-78.56	-75.56	-1.55	-1.45	-25.00	-53.56
303.54	-78.76	-75.80	-1.35	-1.61	-25.00	-53.76
516.94	-73.19	-70.00	-0.96	-2.23	-25.00	-48.19
5360.00	-49.95	-56.19	13.28	-7.04	-25.00	-24.95

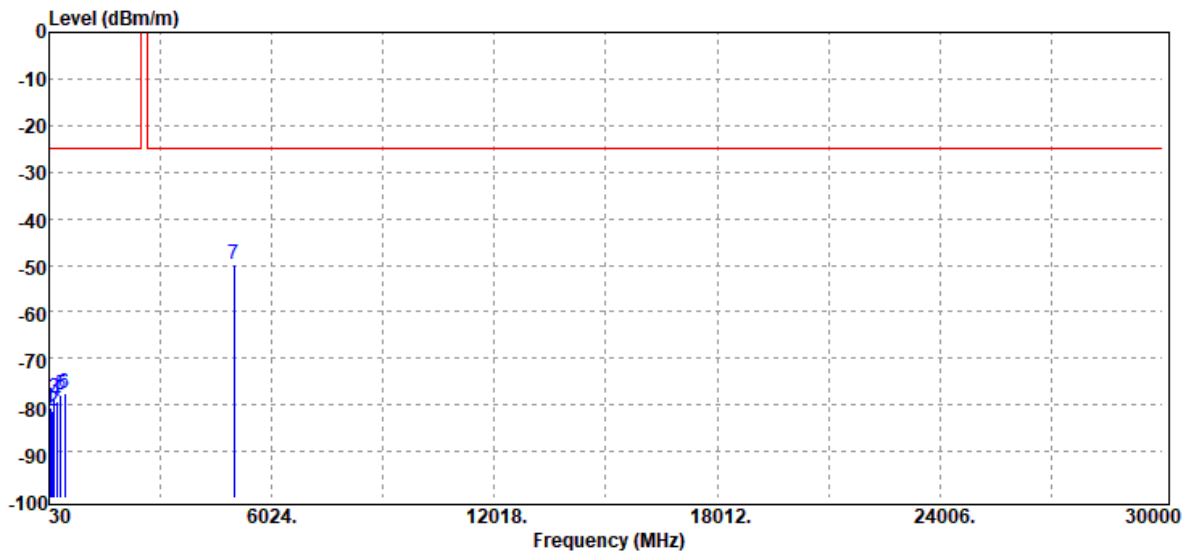
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Radiated Spurious Emission Measurement Result: LTE Band 41 Mode_Sub

Report Number	:ER-2020-B0118-01	Test Site	:SAC III Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-17
Test Mode	:Tx CH Low	Temp./Humi.	:22.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2506 MHz	Engineer	:Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
71.71	-80.73	-73.07	-6.84	-0.82	-25.00	-55.73
131.85	-81.24	-73.40	-6.84	-1.00	-25.00	-56.24
172.59	-78.57	-74.98	-2.33	-1.26	-25.00	-53.57
236.61	-79.17	-76.03	-1.68	-1.46	-25.00	-54.17
337.49	-77.94	-74.86	-1.26	-1.82	-25.00	-52.94
447.10	-77.38	-74.37	-1.18	-1.83	-25.00	-52.38
5012.00	-49.85	-55.49	12.50	-6.86	-25.00	-24.85

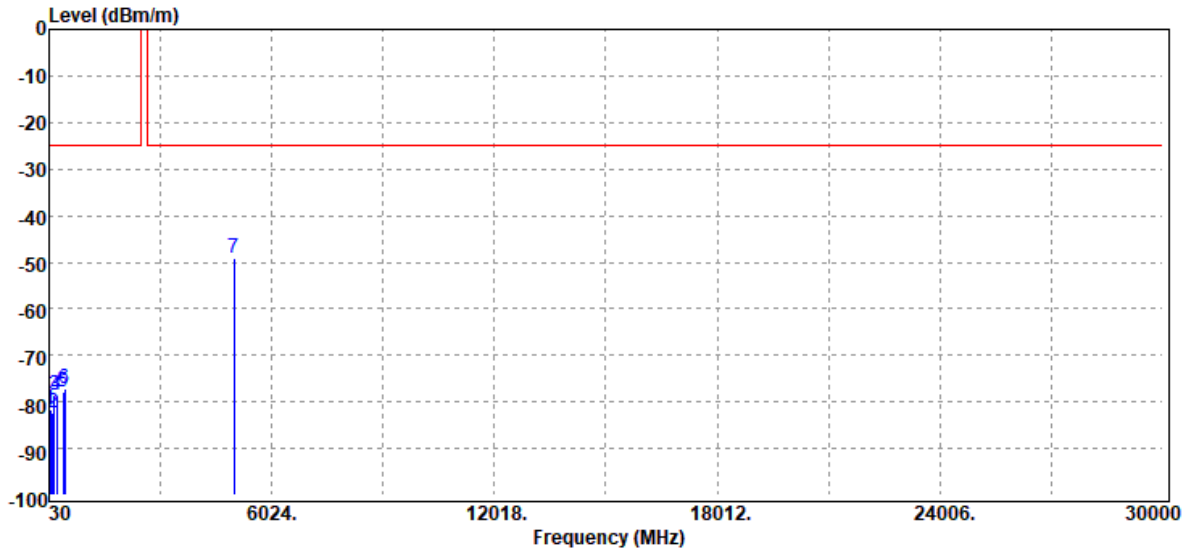
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Report Number :ER-2020-B0118-01
Operation Mode :LTE B41
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :2506 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.80	-81.53	-73.65	-7.07	-0.81	-25.00	-56.53
128.94	-82.23	-74.12	-7.12	-0.99	-25.00	-57.23
167.74	-78.60	-74.48	-2.86	-1.26	-25.00	-53.60
228.85	-78.61	-75.87	-1.32	-1.42	-25.00	-53.61
403.45	-77.84	-74.32	-1.65	-1.87	-25.00	-52.84
451.95	-77.08	-74.21	-1.06	-1.81	-25.00	-52.08
5012.00	-49.11	-54.75	12.50	-6.86	-25.00	-24.11

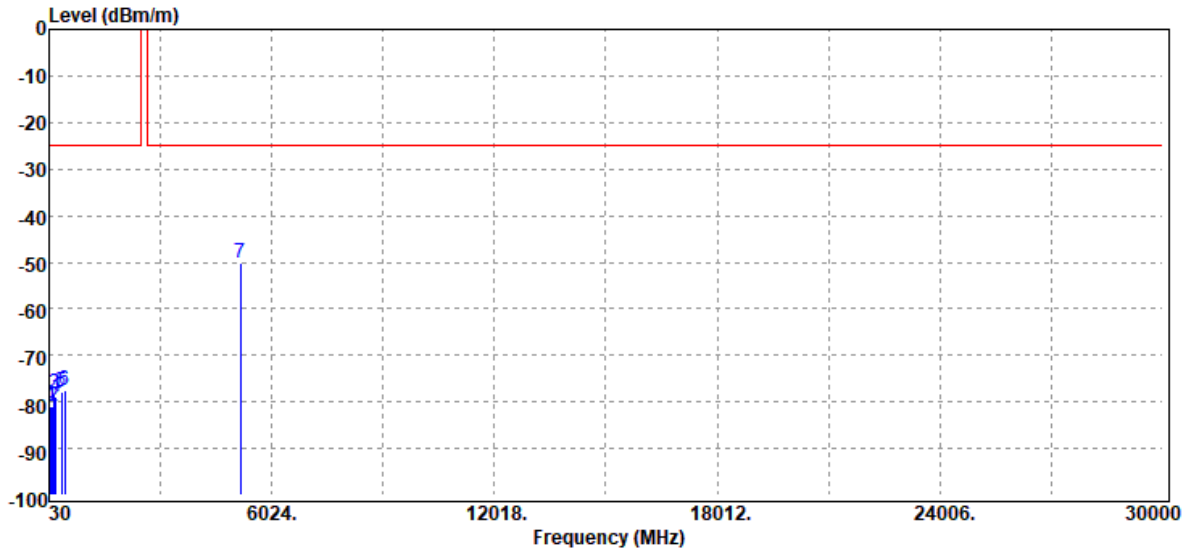
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Report Number :ER-2020-B0118-01
Operation Mode :LTE B41
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :2593 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-80.95	-73.41	-6.66	-0.88	-25.00	-55.95
125.06	-80.83	-72.52	-7.29	-1.02	-25.00	-55.83
174.53	-78.26	-74.87	-2.14	-1.25	-25.00	-53.26
211.39	-79.05	-76.41	-1.27	-1.37	-25.00	-54.05
371.44	-77.96	-74.88	-1.33	-1.75	-25.00	-52.96
451.95	-77.46	-74.59	-1.06	-1.81	-25.00	-52.46
5186.00	-50.03	-55.64	12.72	-7.11	-25.00	-25.03

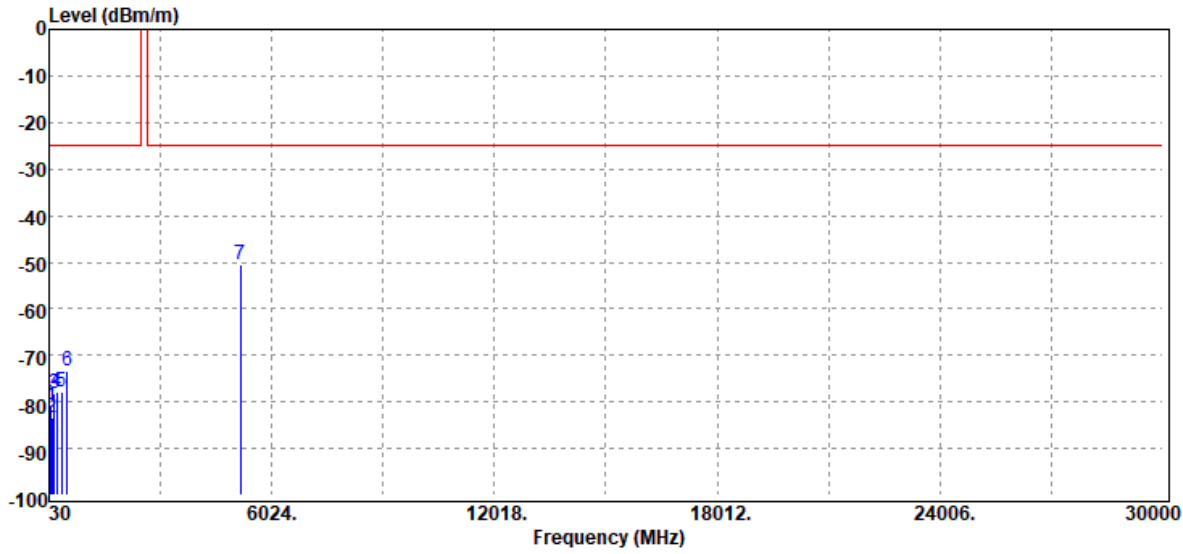
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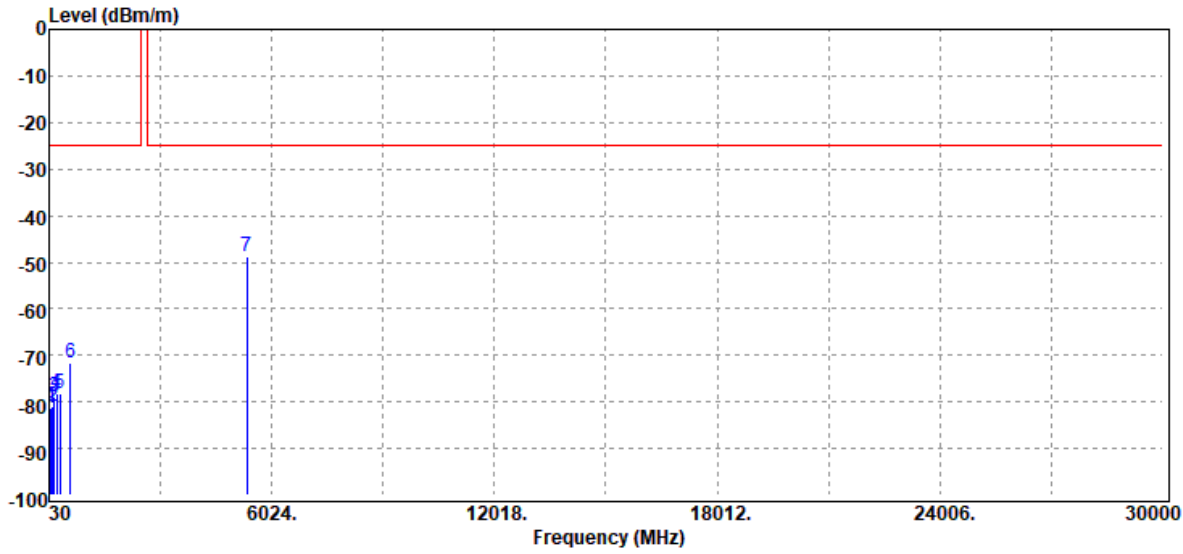
Report Number :ER-2020-B0118-01
Operation Mode :LTE B41
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :2593 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Report Number :ER-2020-B0118-01
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :2680 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-81.23	-73.69	-6.71	-0.83	-25.00	-56.23
129.91	-80.97	-72.94	-7.05	-0.98	-25.00	-55.97
177.44	-78.97	-75.83	-1.90	-1.24	-25.00	-53.97
233.70	-78.37	-75.37	-1.55	-1.45	-25.00	-53.37
319.06	-78.24	-75.34	-1.25	-1.65	-25.00	-53.24
610.06	-71.73	-69.15	-0.62	-1.96	-25.00	-46.73
5360.00	-48.76	-55.00	13.28	-7.04	-25.00	-23.76

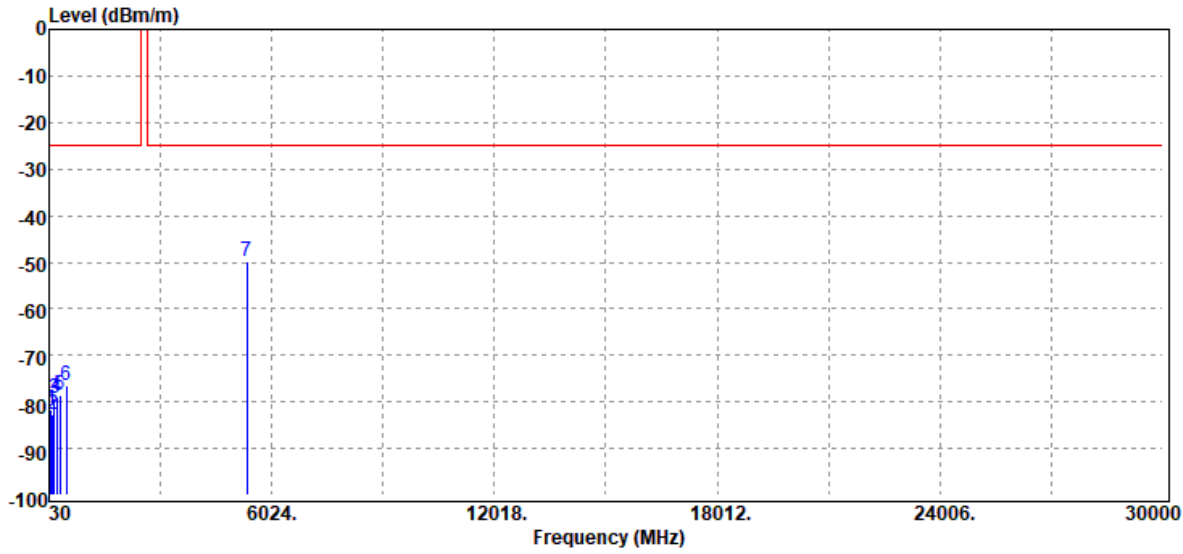
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Report Number :ER-2020-B0118-01
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :2680 MHz

Test Site :SAC III Chamber
Test Date :2020-12-17
Temp./Humi. :22.4/60
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-81.51	-73.68	-6.94	-0.89	-25.00	-56.51
127.00	-82.85	-74.59	-7.25	-1.01	-25.00	-57.85
180.35	-79.07	-76.14	-1.70	-1.23	-25.00	-54.07
230.79	-78.80	-75.94	-1.43	-1.43	-25.00	-53.80
322.94	-78.62	-75.76	-1.20	-1.66	-25.00	-53.62
485.90	-76.34	-73.14	-1.10	-2.10	-25.00	-51.34
5360.00	-49.91	-56.15	13.28	-7.04	-25.00	-24.91

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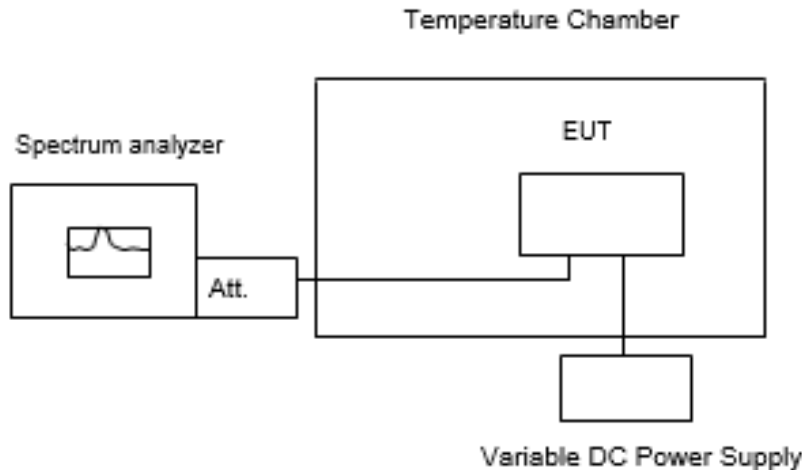
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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°C. 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 (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

10.5 Measurement Result

Note: The battery is rated 3.85V dc.

GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	836.599994	-6	2091
3.85	20	836.600003	3	2091
3.465	20	836.599991	-9	2091
3.1 (End point)	20	836.600007	7	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.600004	4	2091
3.85	40	836.599998	-2	2091
3.85	30	836.599993	-7	2091
3.85	20	836.600006	6	2091
3.85	10	836.599991	-9	2091
3.85	0	836.600005	5	2091
3.85	-10	836.600001	10	2091
3.85	-20	836.599999	-1	2091
3.85	-30	836.600004	4	2091

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GPRS 1900 Mid Channel			1880	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	1879.999994	-6	4700
3.85	20	1879.999997	-3	4700
3.465	20	1879.99999	-10	4700
3.1 (End point)	20	1880.000001	1	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999996	-4	4700
3.85	40	1880.000009	9	4700
3.85	30	1879.999991	-9	4700
3.85	20	1879.999997	-3	4700
3.85	10	1879.99999	-10	4700
3.85	0	1879.999998	-2	4700
3.85	-10	1879.999996	-4	4700
3.85	-20	1879.999997	-3	4700
3.85	-30	1880.000008	8	4700

WCDMA V Mid Channel		836.6	MHz	
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.235	20	836.599996	-4	2091
3.85	20	836.600001	10	2091
3.465	20	836.600007	7	2091
3.1 (End point)	20	836.600002	2	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.600001	1	2091
3.85	40	836.600006	6	2091
3.85	30	836.599996	-4	2091
3.85	20	836.599993	-7	2091
3.85	10	836.599999	-10	2091
3.85	0	836.599991	-9	2091
3.85	-10	836.600008	8	2091
3.85	-20	836.600005	5	2091
3.85	-30	836.599999	-1	2091

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Reference Freq.:	LTE B5 Mid		836.5	MHz 10M QPSK CH 20525
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	836.499997	-3	2091
3.85	25	836.499992	-8	2091
3.465	25	836.500001	1	2091
3.1	25	836.500009	9	2091
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	836.499990	-10	2091
3.85	-20	836.499994	-6	2091
3.85	-10	836.500004	4	2091
3.85	0	836.499993	-7	2091
3.85	10	836.499998	-2	2091
3.85	20	836.500006	6	2091
3.85	30	836.500004	4	2091
3.85	40	836.500003	3	2091
3.85	50	836.499995	-5	2091
Reference Freq.:	LTE B12 Mid		707.5	MHz 10M QPSK CH 23095
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	707.500006	6	1769
3.85	25	707.499992	-8	1769
3.465	25	707.500002	2	1769
3.1	25	707.499990	-10	1769
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	707.499994	-6	1769
3.85	-20	707.499997	-3	1769
3.85	-10	707.500002	2	1769
3.85	0	707.500007	7	1769
3.85	10	707.499990	-10	1769
3.85	20	707.500009	9	1769
3.85	30	707.500003	3	1769
3.85	40	707.499996	-4	1769
3.85	50	707.499995	-5	1769

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Reference Freq.:	LTE B17 Mid Channel		710	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	709.999997	-3	1775
3.85	25	709.999993	-7	1775
3.465	25	709.999995	-5	1775
3.1 (End Point)	25	710.000008	8	1775
Freq. ERROR vs. Temp.				
3.85	-30	709.999992	-8	1775
3.85	-20	709.999995	-5	1775
3.85	-10	710.000002	2	1775
3.85	0	710.000003	3	1775
3.85	10	709.999991	-9	1775
3.85	20	709.999995	-5	1775
3.85	30	710.000010	10	1775
3.85	40	710.000005	5	1775
3.85	50	709.999996	-4	1775
Reference Freq.:	LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	2595.000008	8	6488
3.85	25	2595.000002	2	6488
3.465	25	2595.000001	1	6488
3.1 (End Point)	25	2594.999991	-9	6488
Freq. ERROR vs. Temp.				
3.85	-30	2595.000001	1	6488
3.85	-20	2595.000008	8	6488
3.85	-10	2595.000007	7	6488
3.85	0	2595.000009	9	6488
3.85	10	2594.999995	-5	6488
3.85	20	2594.999994	-6	6488
3.85	30	2594.999992	-8	6488
3.85	40	2594.999990	-10	6488
3.85	50	2594.999999	-1	6488

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Reference Freq.:	LTE B41 Mid Channel		2593	MHz 10M QPSK CH 40620
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.235	25	2593.000001	1	6483
3.85	25	2593.000002	2	6483
3.465	25	2593.000006	6	6483
3.1	25	2592.999994	-6	6483
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	2593.000010	10	6483
3.85	-20	2592.999998	-2	6483
3.85	-10	2593.000007	7	6483
3.85	0	2593.000006	6	6483
3.85	10	2592.999995	-5	6483
3.85	20	2593.000009	9	6483
3.85	30	2592.999993	-7	6483
3.85	40	2592.999997	-3	6483
3.85	50	2593.000008	8	6483

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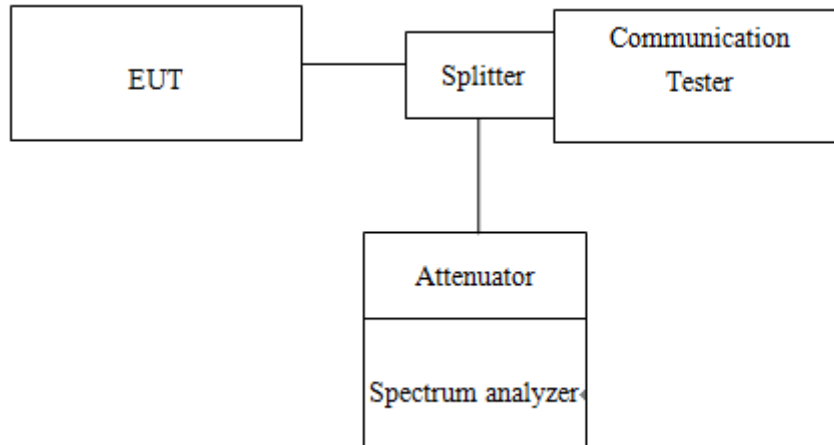
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11 PEAK TO AVERAGE RATIO

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 $\geq$ 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 (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average	
		GSM 1900	GPRS 1900
1850.2	512	9.59	9.42
1880	661	9.55	9.33
1909.8	810	9.44	9.49

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	6.28	13	700.5	23025	6.24	13
707.5	23095	6.66	13	707.5	23095	6.44	13
715.3	23173	6.53	13	714.5	23165	6.63	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.37	13	704.0	23060	6.52	13
707.5	23095	6.47	13	707.5	23095	6.38	13
713.5	23155	6.42	13	711.0	23130	6.32	13

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	6.50	13	709.0	23780	6.27	13
710.0	23790	6.34	13	710.0	23790	6.21	13
713.5	23825	6.46	13	711.0	23800	6.14	13

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	9.00	13	2575	37800	8.96	13
2595.0	38000	9.15	13	2595	38000	12.13	13
2617.5	38225	12.06	13	2615	38200	10.33	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	12.87	13	2580.0	37850	10.07	13
2595.0	38000	10.42	13	2595.0	38000	9.39	13
2612.5	38175	8.57	13	2610.0	38150	9.64	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	12.36	13	2501.0	39700	11.17	13
2593.0	40620	11.32	13	2593.0	40620	8.71	13
2687.5	41565	11.94	13	2685.0	41540	10.63	13

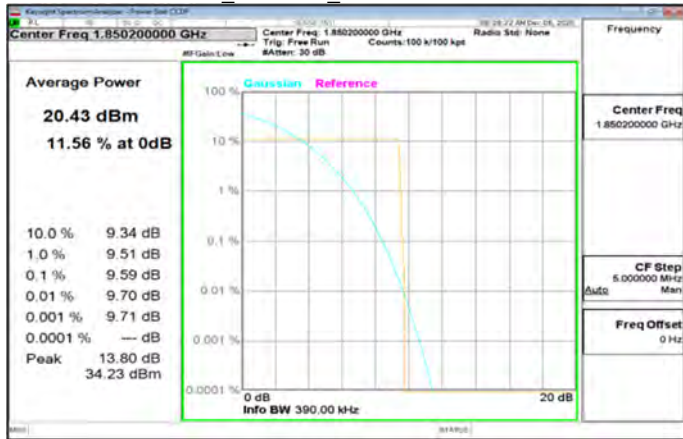
LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	12.41	13	2506.0	39750	10.36	13
2593.0	40620	11.70	13	2593.0	40620	8.84	13
2682.5	41515	8.74	13	2680.0	41490	11.27	13

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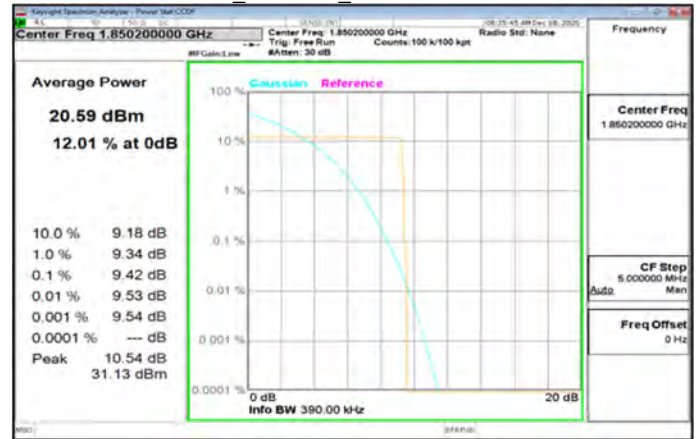
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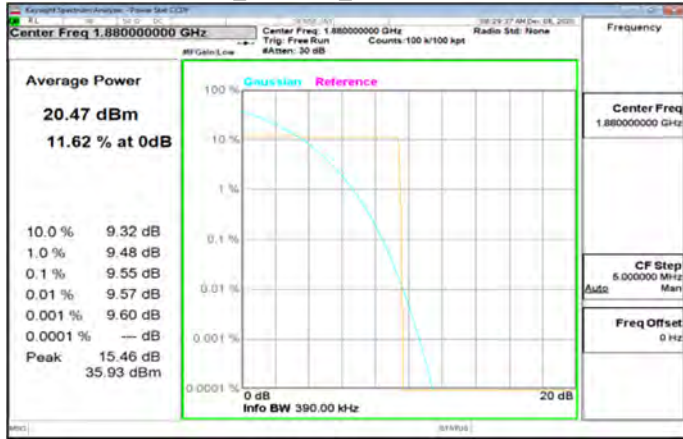
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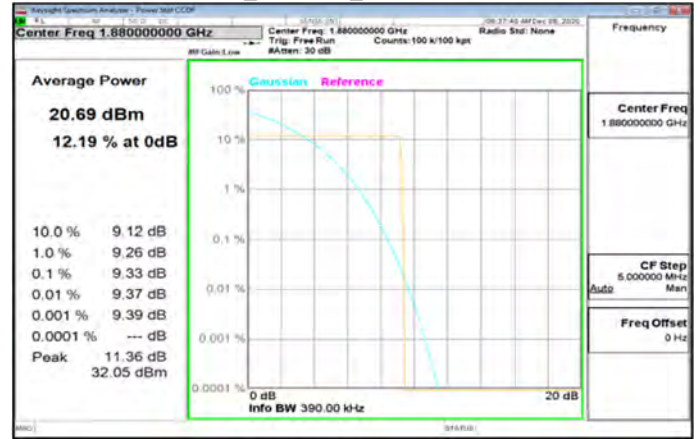
GPRS 1900MHz LowCH512-1850.2



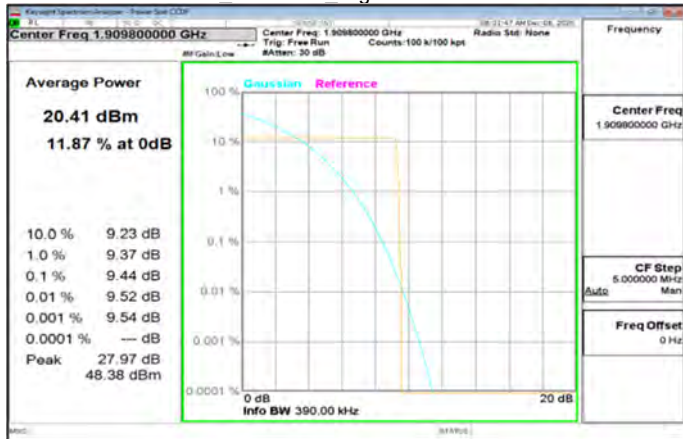
GSM 1900MHz MidCH661-1880



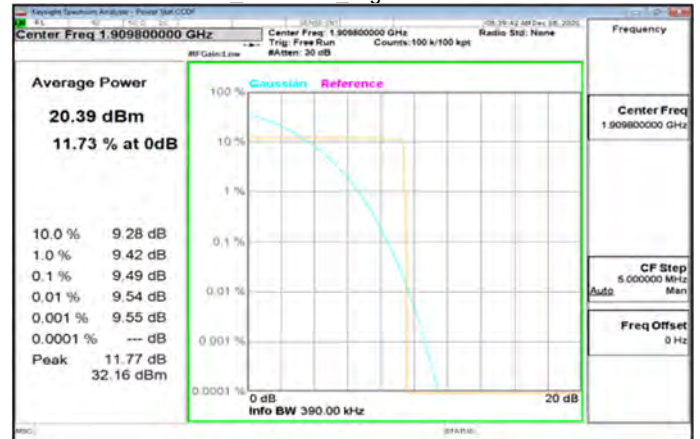
GPRS 1900MHz MidCH661-1880



GSM 1900MHz HighCH810-1909.8



GPRS 1900MHz HighCH810-1909.8

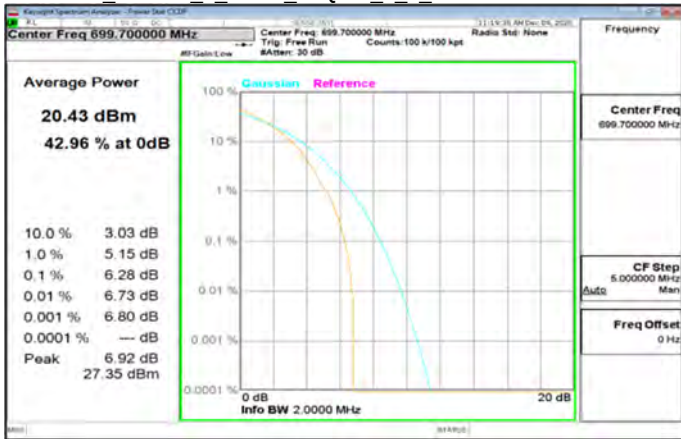


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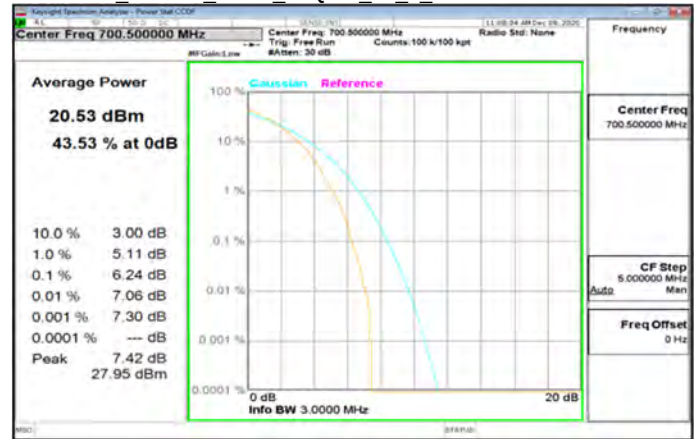
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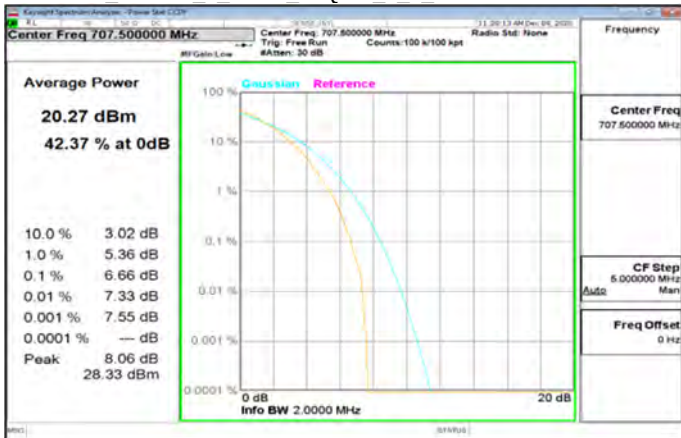
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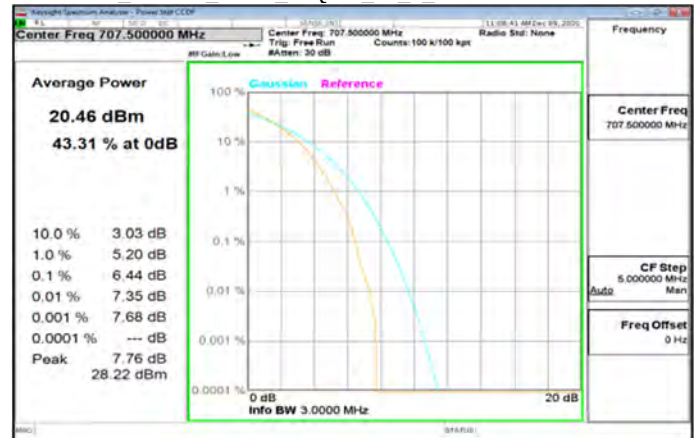
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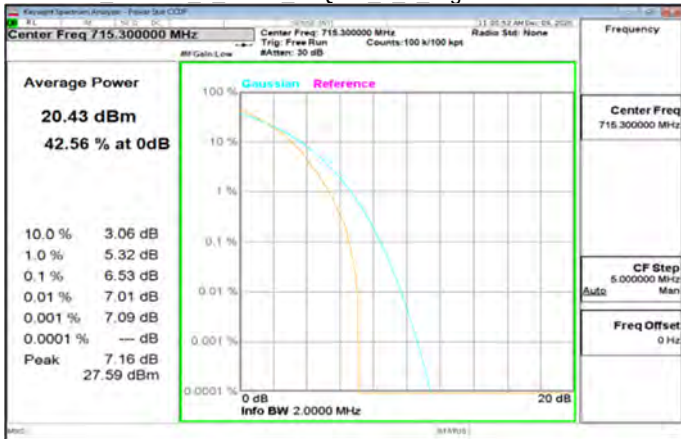
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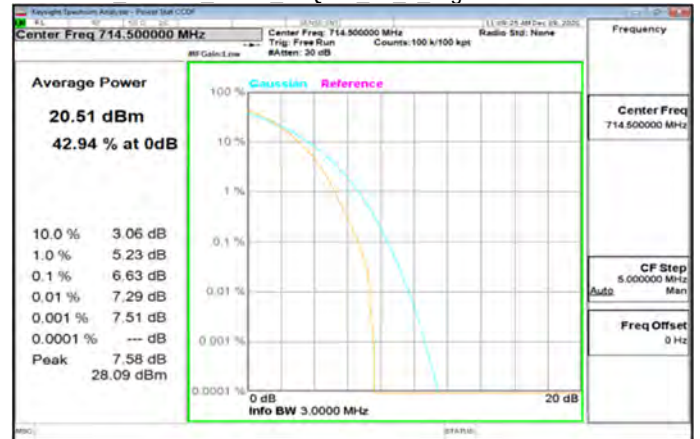
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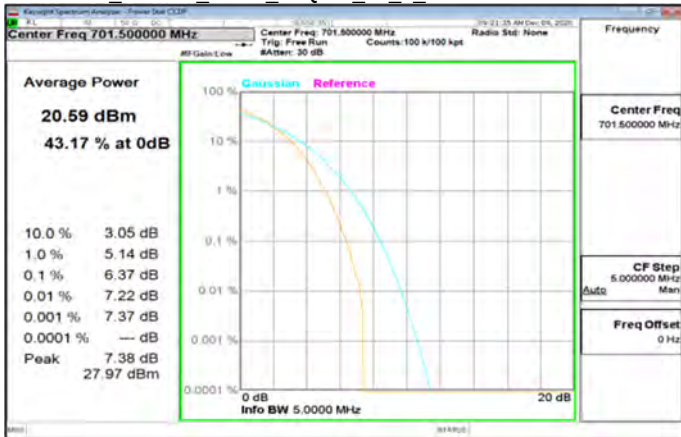


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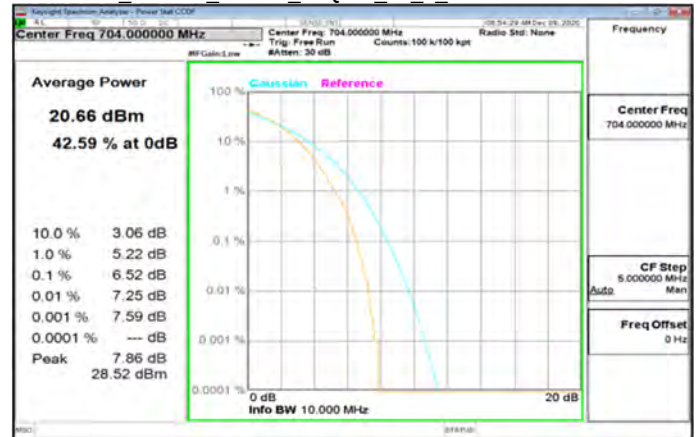
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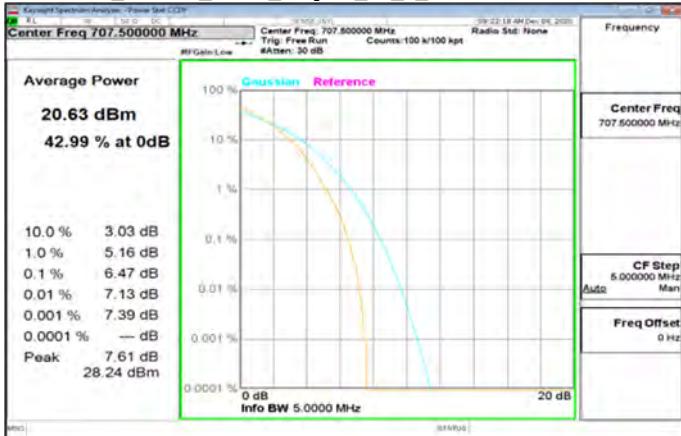
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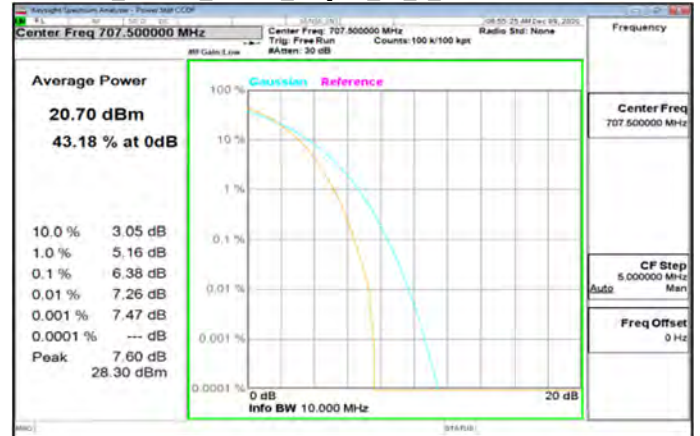
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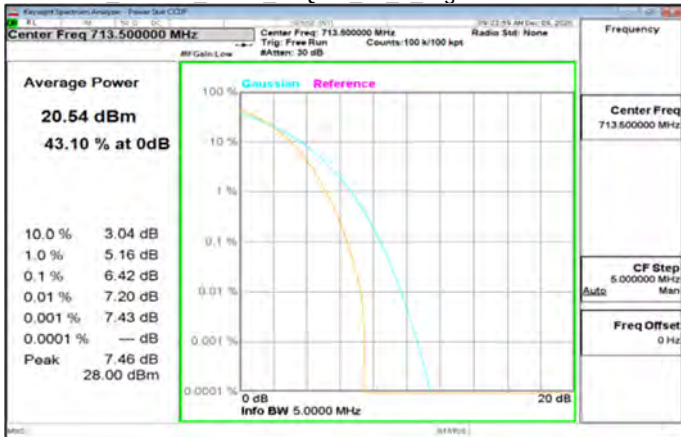
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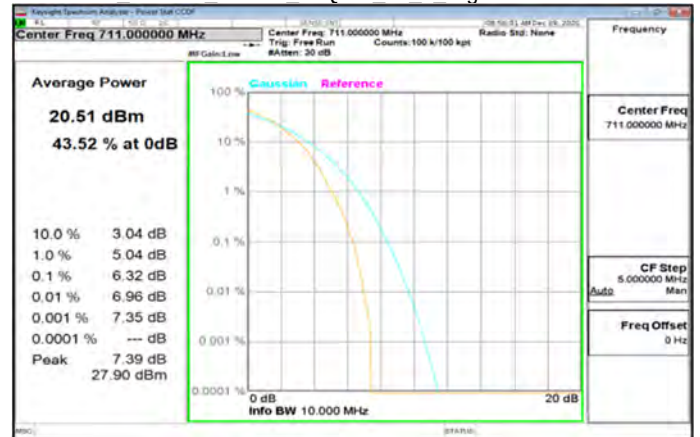
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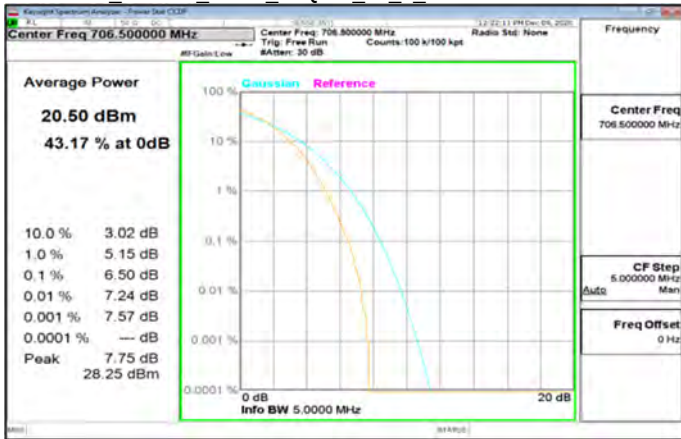


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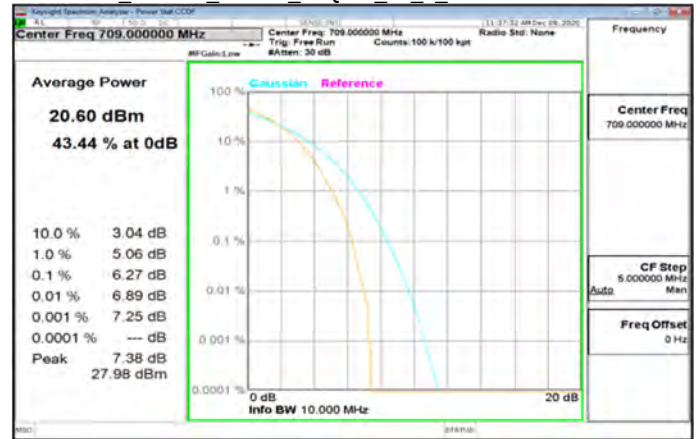
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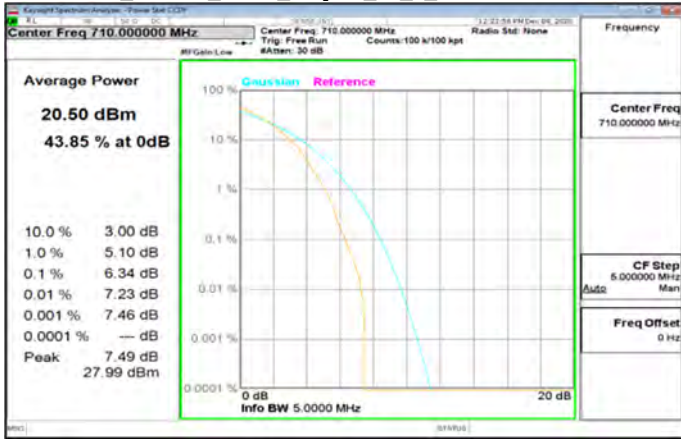
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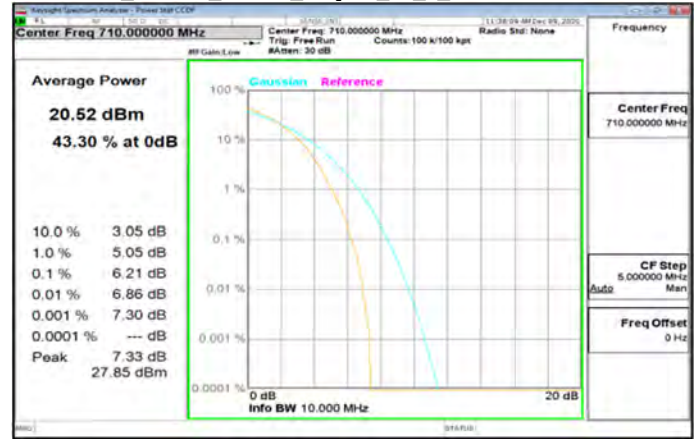
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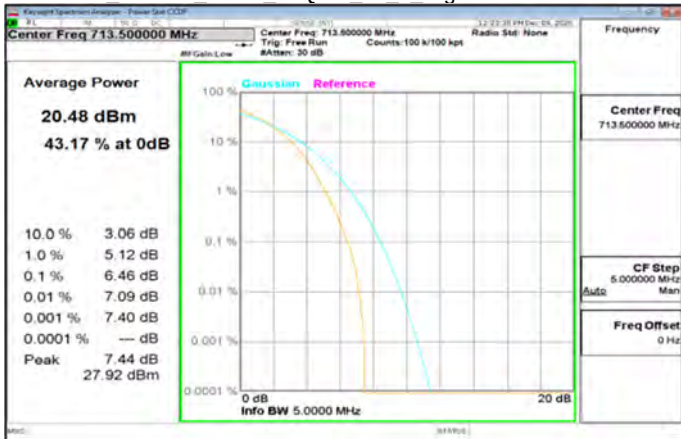
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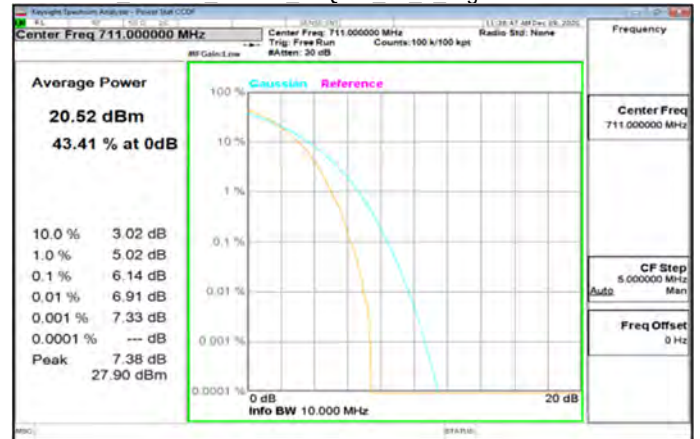
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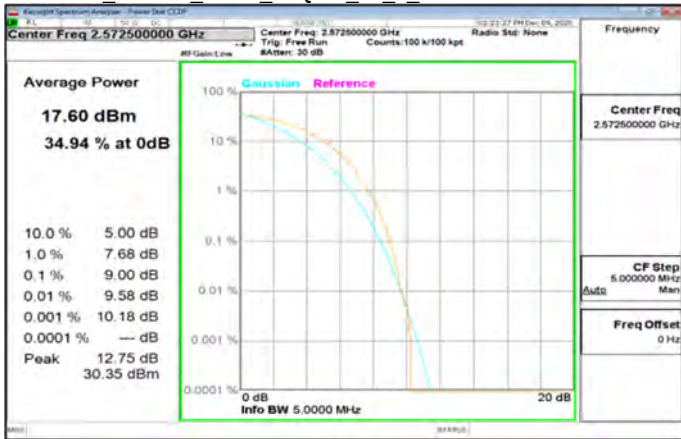


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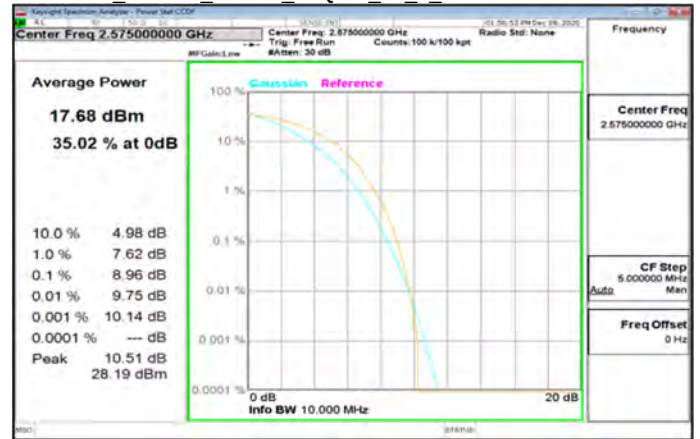
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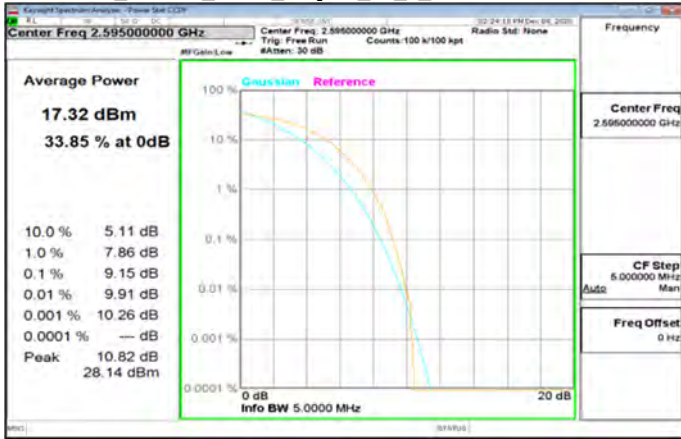
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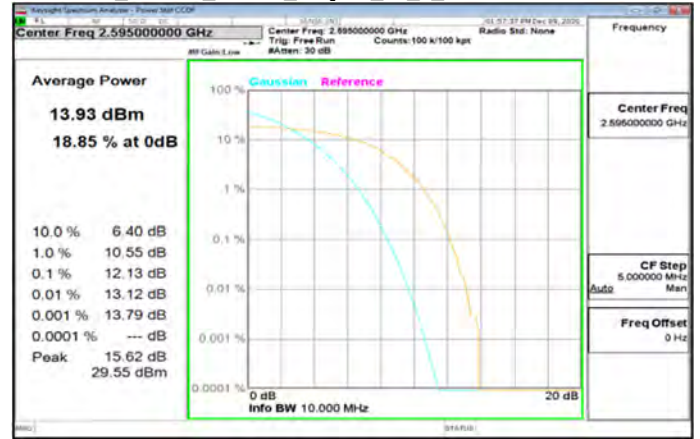
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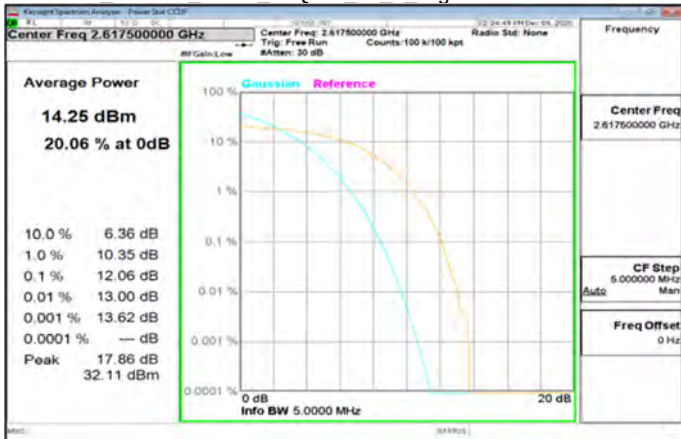
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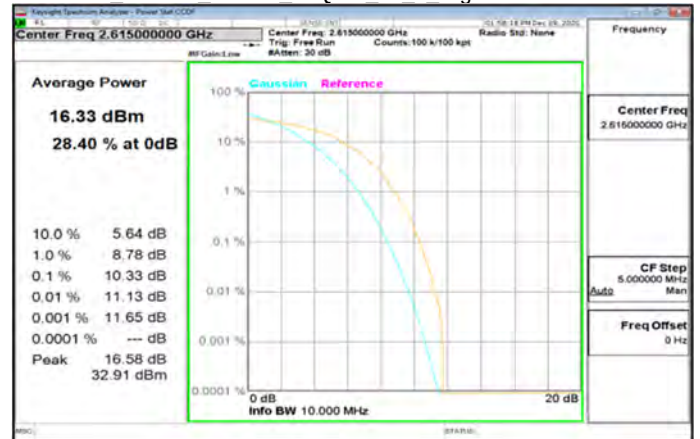
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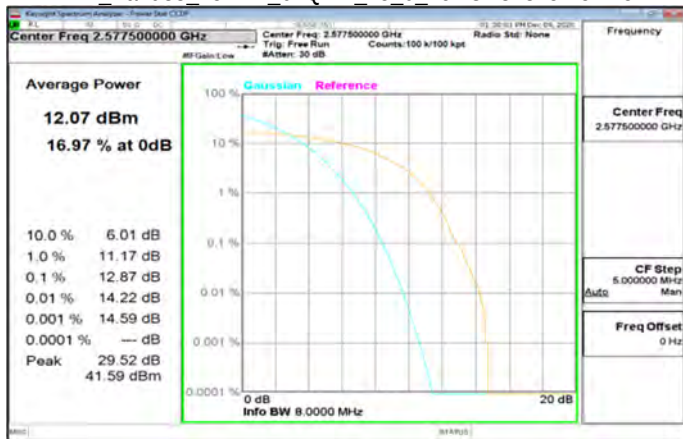


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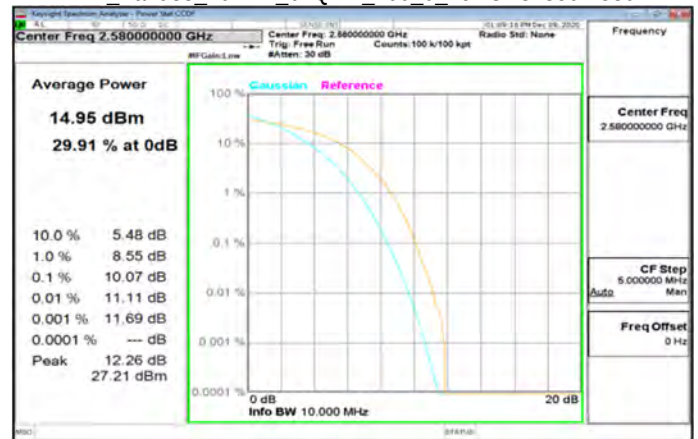
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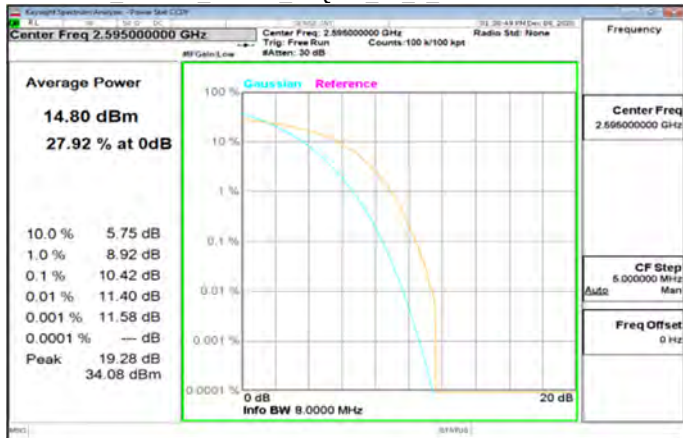
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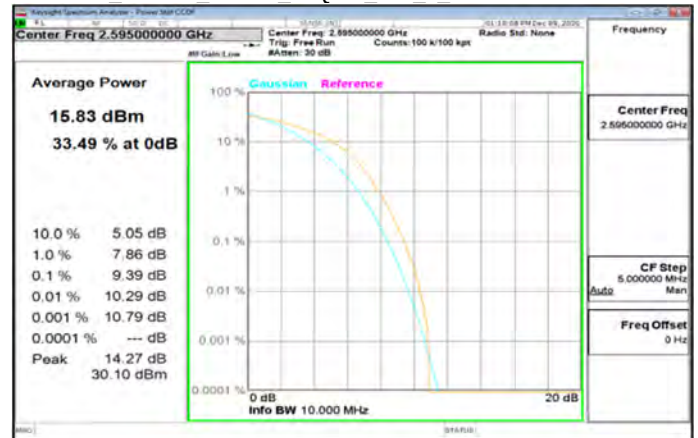
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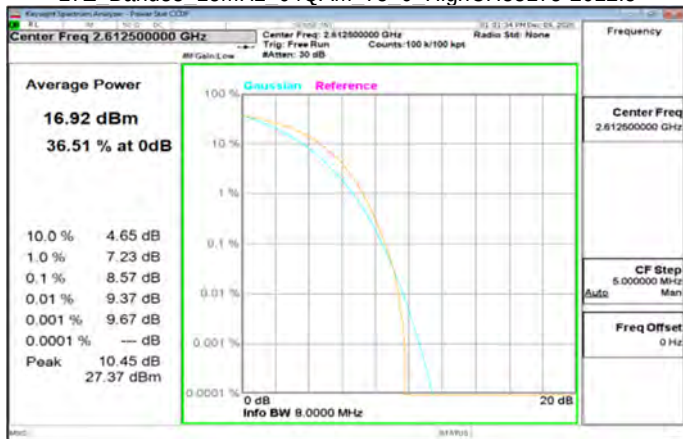
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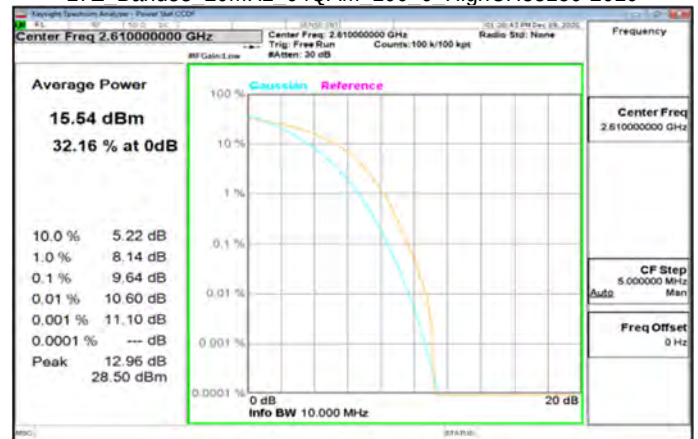
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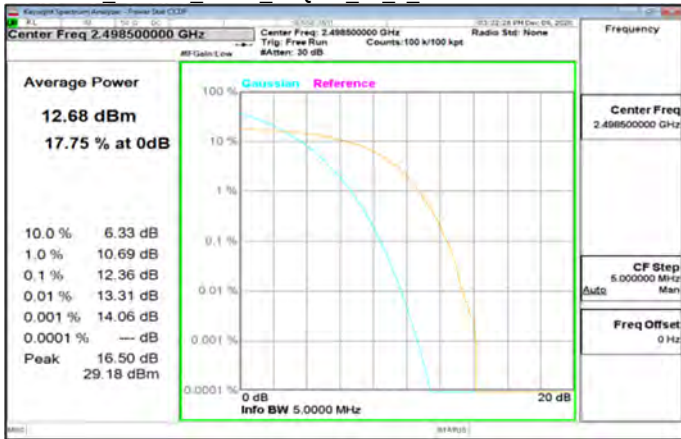


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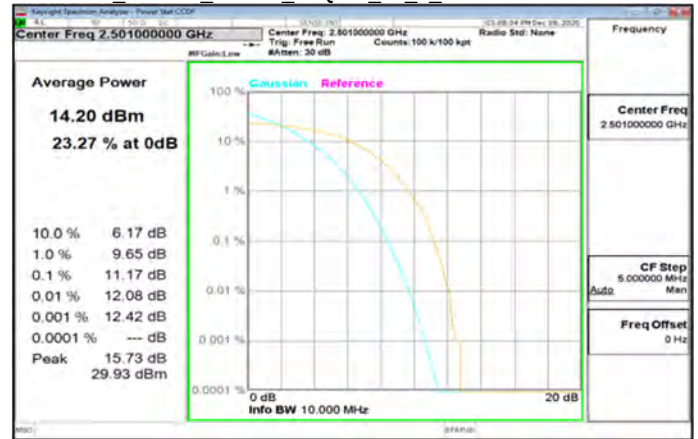
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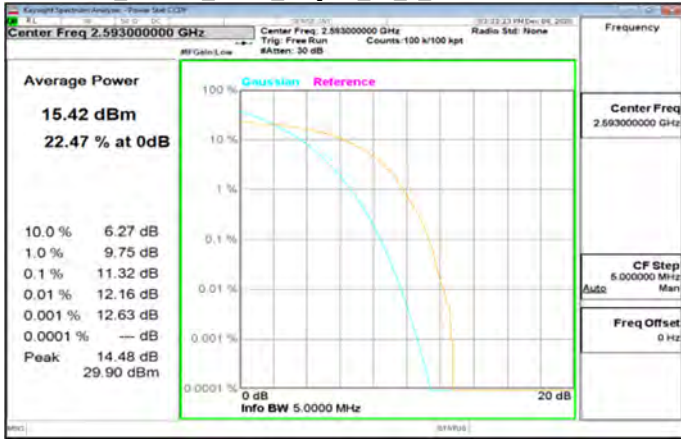
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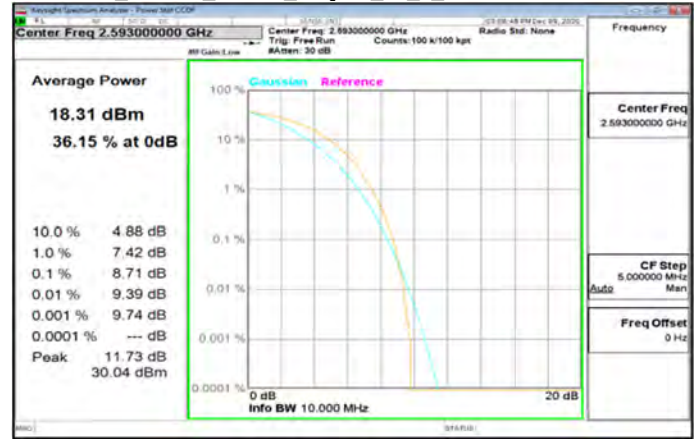
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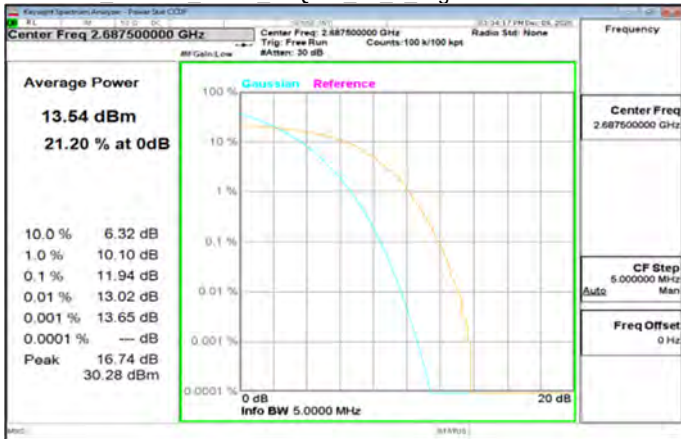
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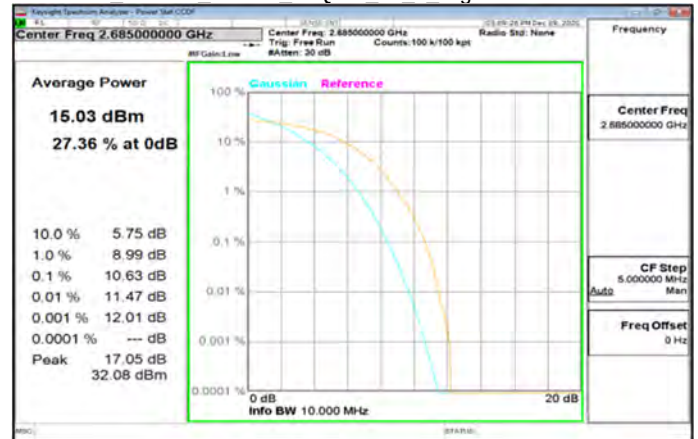
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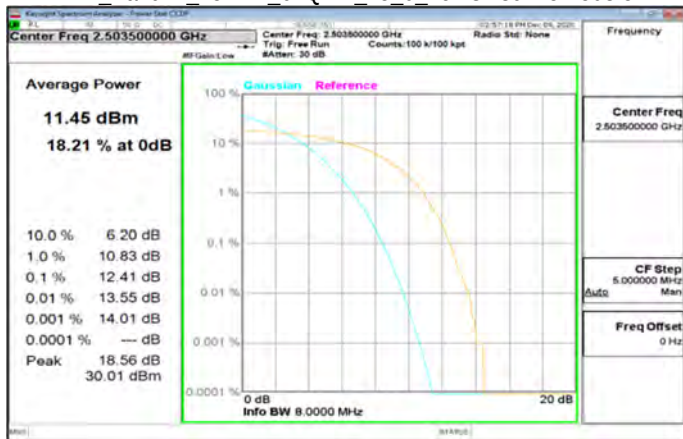


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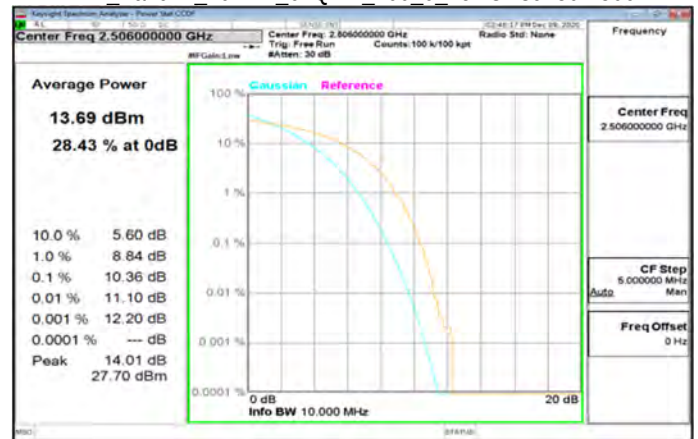
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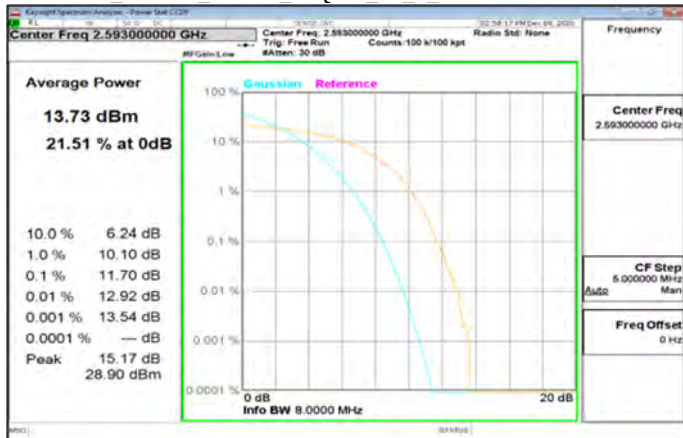
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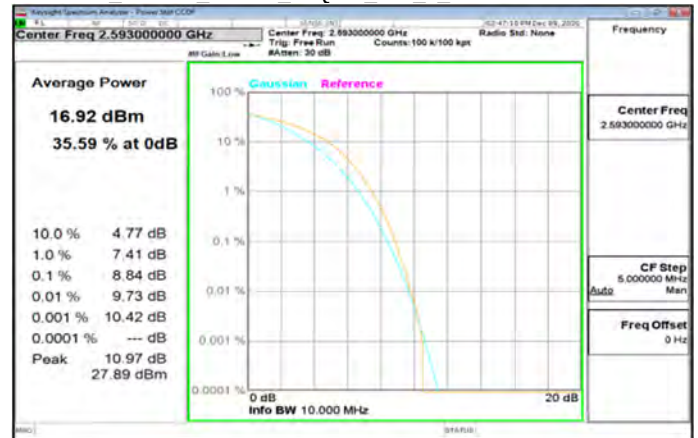
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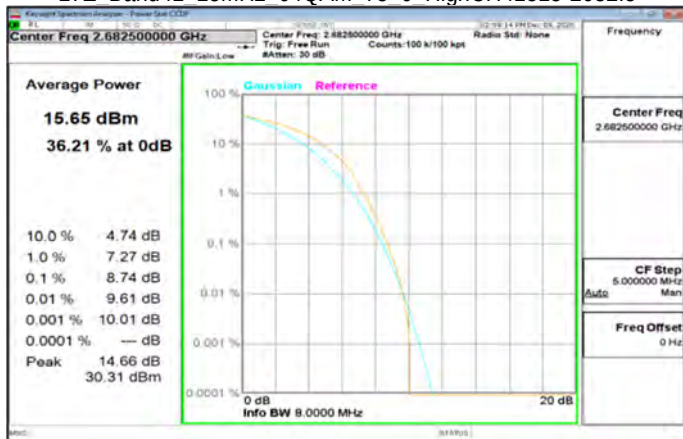
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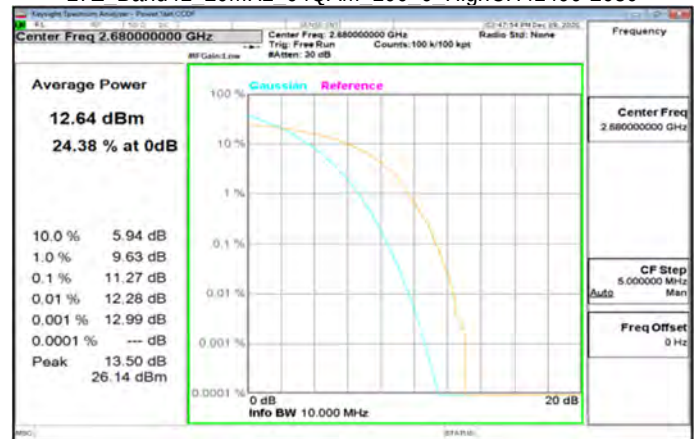
LTE Band41 20MHz 64QAM 100 0 MidCH40620-2593



LTE Band41 15MHz 64QAM 75 0 HighCH41515-2682.5



LTE Band41 20MHz 64QAM 100 0 HighCH41490-2680



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