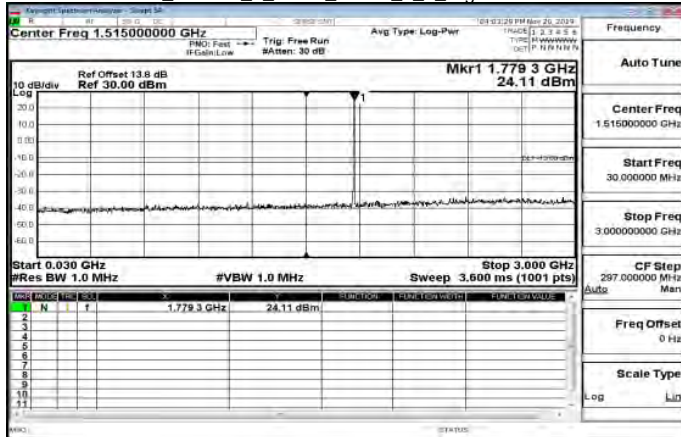
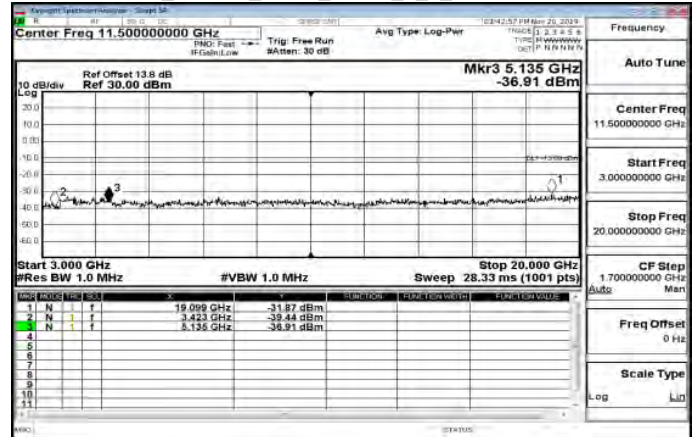


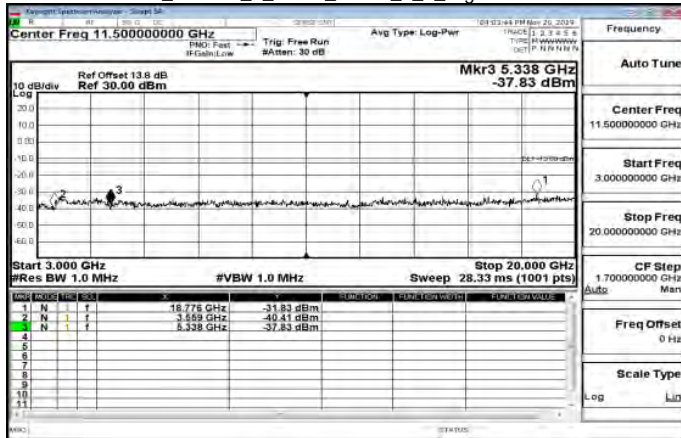
30MHz-3GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665-1779.3



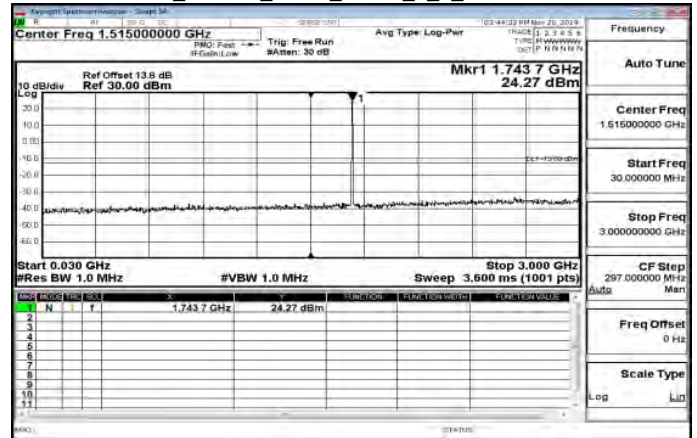
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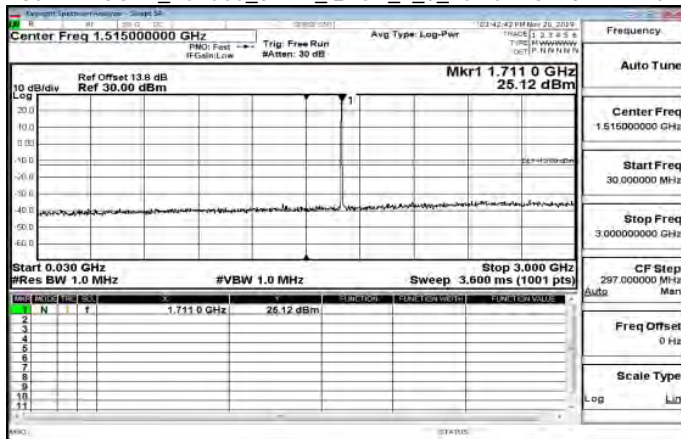
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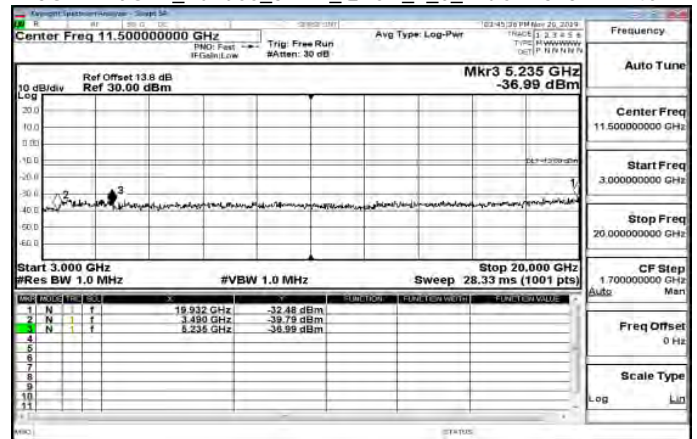
30MHz-3GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745



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3GHz-10GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745

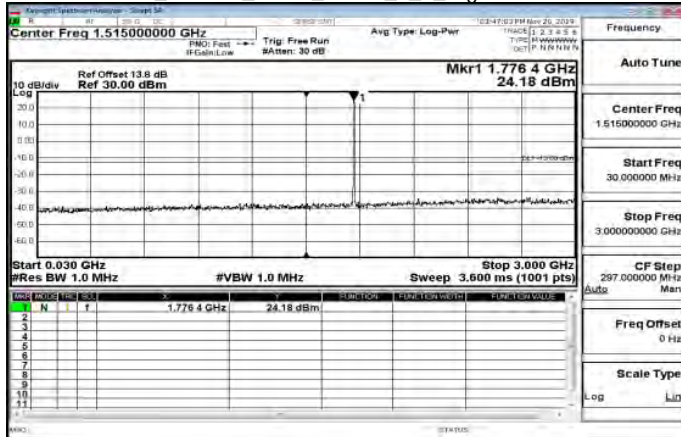


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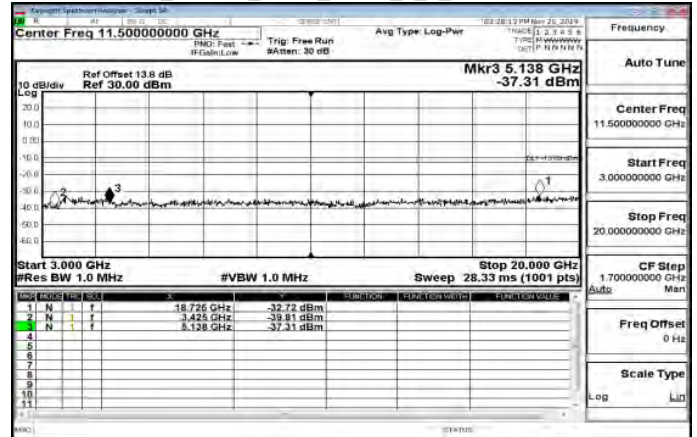
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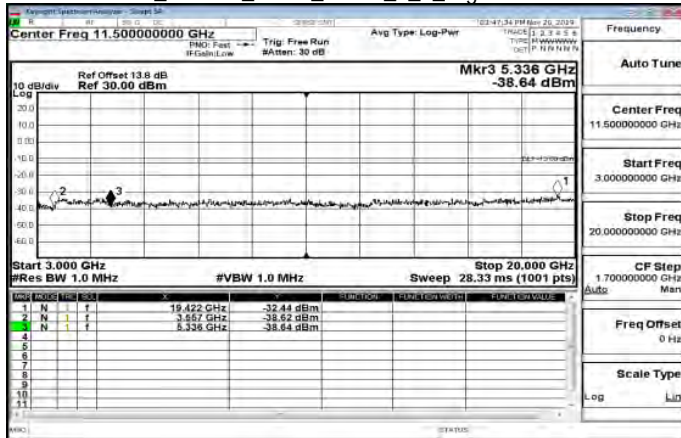
30MHz~3GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5



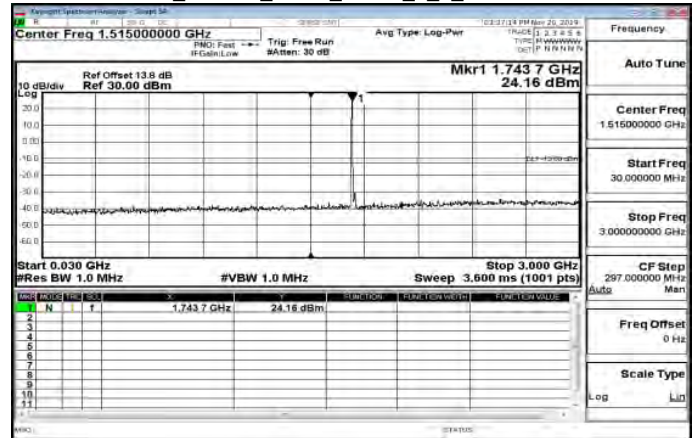
3GHz~10GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5



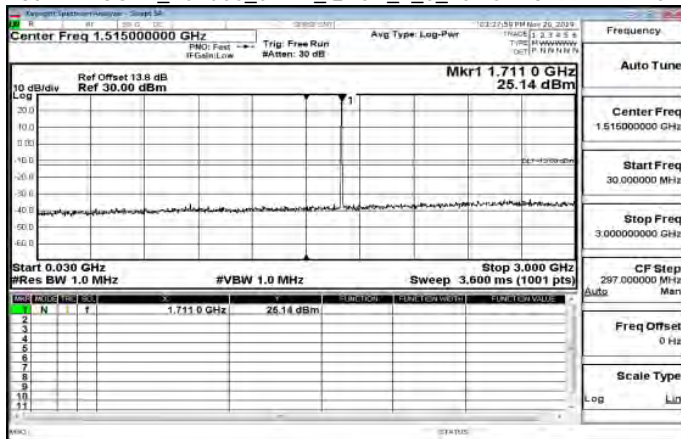
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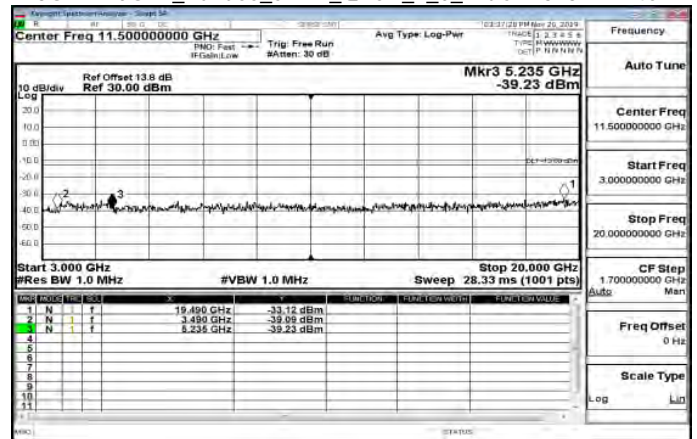
30MHz~3GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745



30MHz~3GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5



3GHz~10GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745

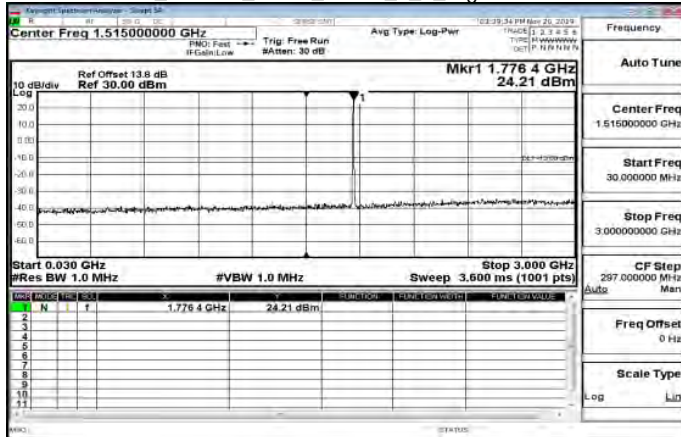


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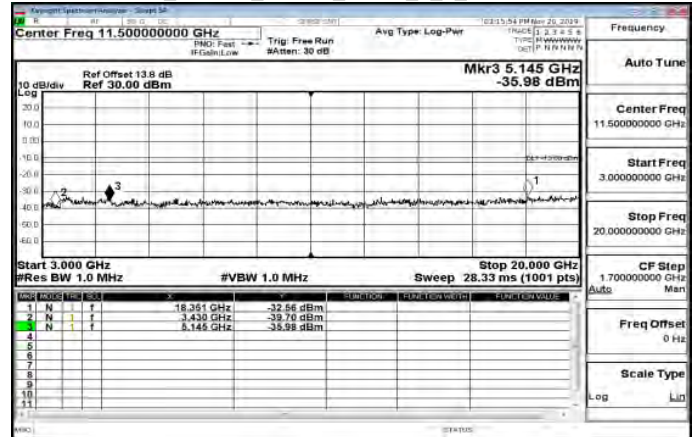
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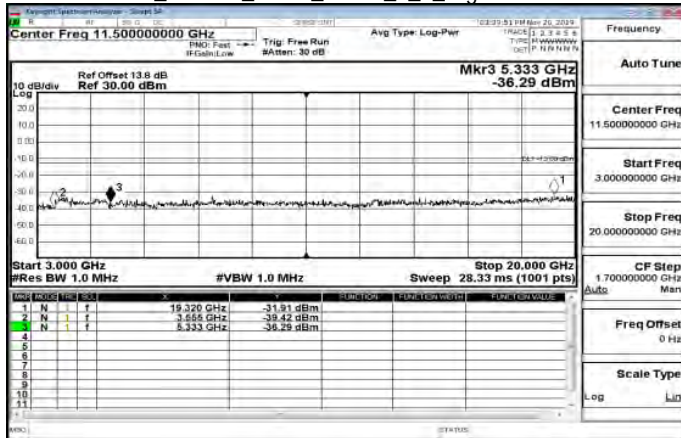
30MHz~3GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5



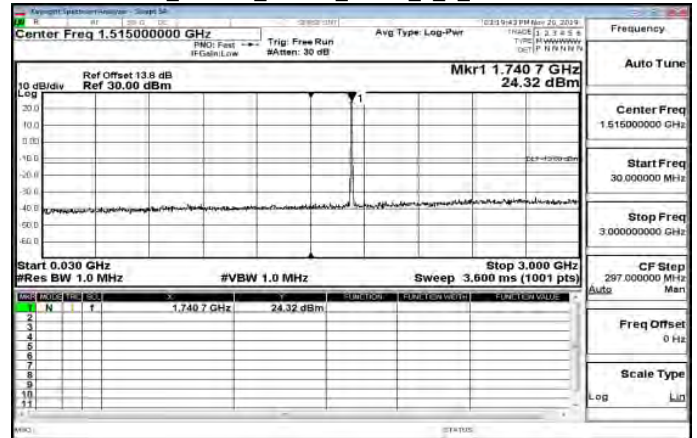
3GHz~10GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715



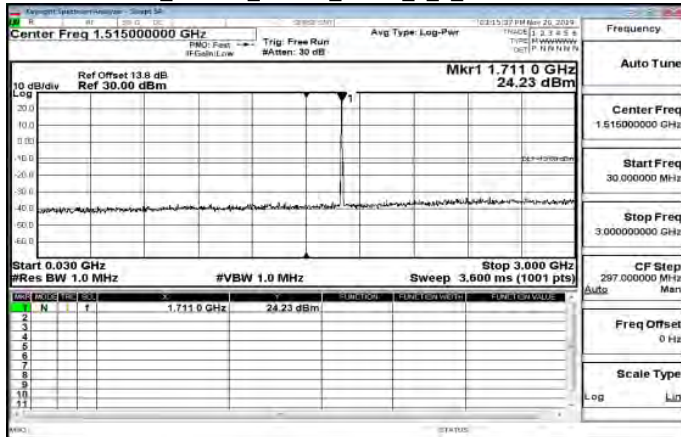
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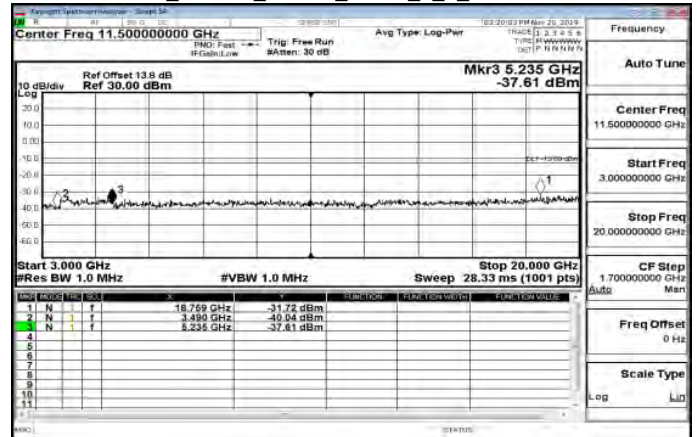
30MHz~3GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745



30MHz~3GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715



3GHz~10GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745

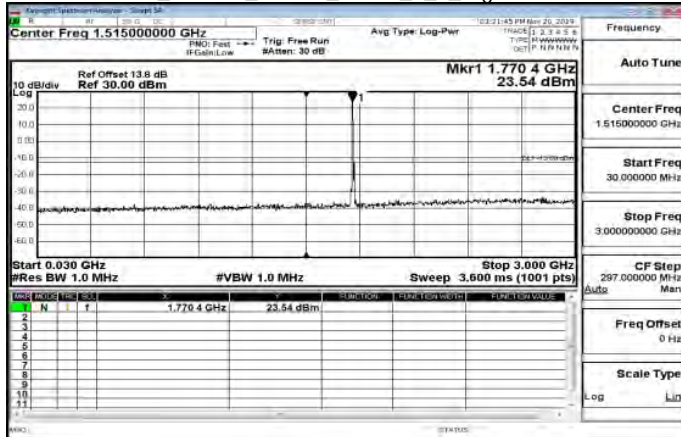


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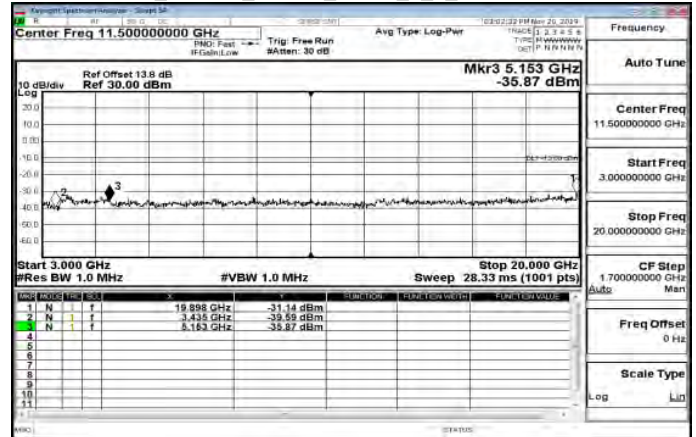
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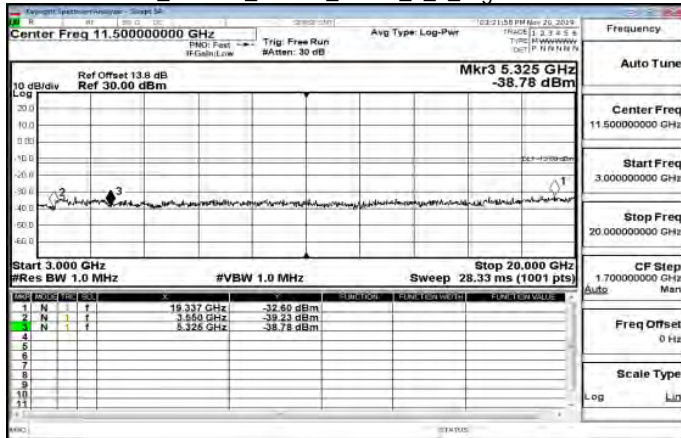
30MHz~3GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775



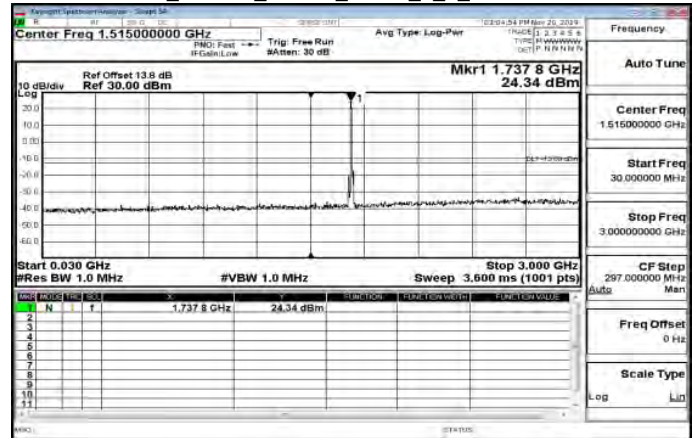
3GHz~10GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5



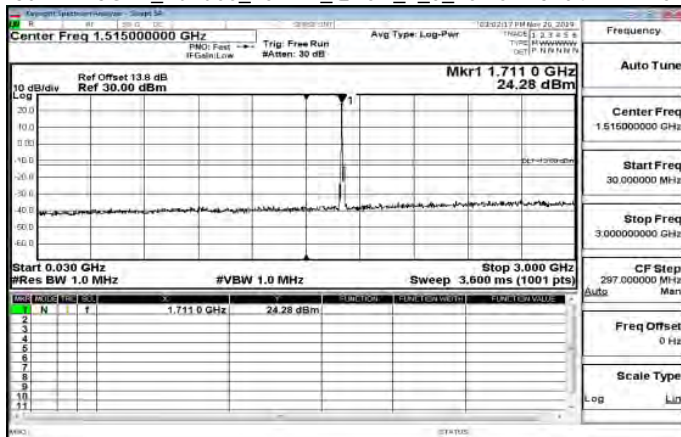
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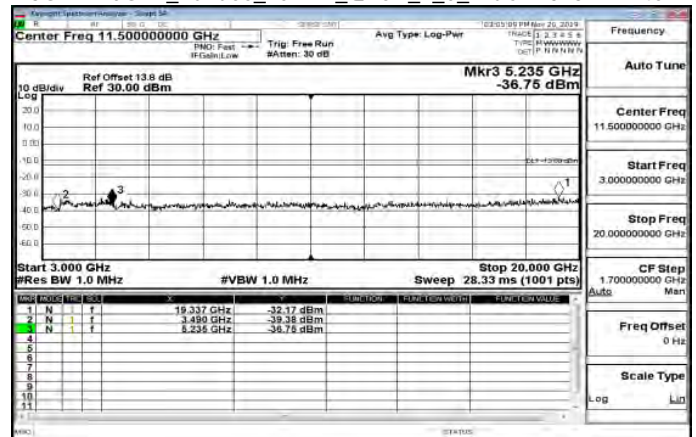
30MHz~3GHz_Band66_15MHz_QPSK_1_0_MidCH132322-1745



30MHz~3GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5



3GHz~10GHz_Band66_15MHz_QPSK_1_0_MidCH132322-1745

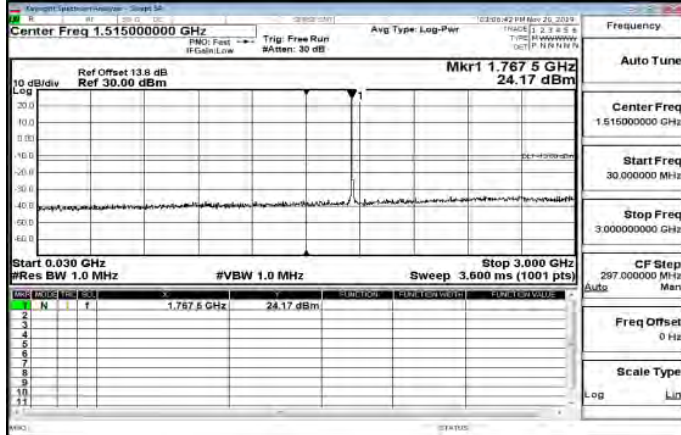


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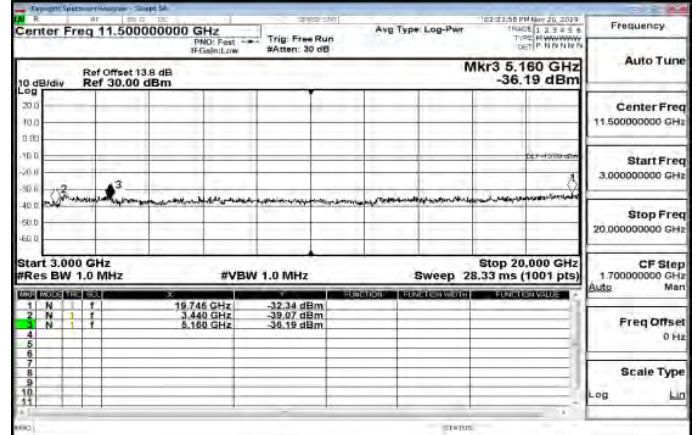
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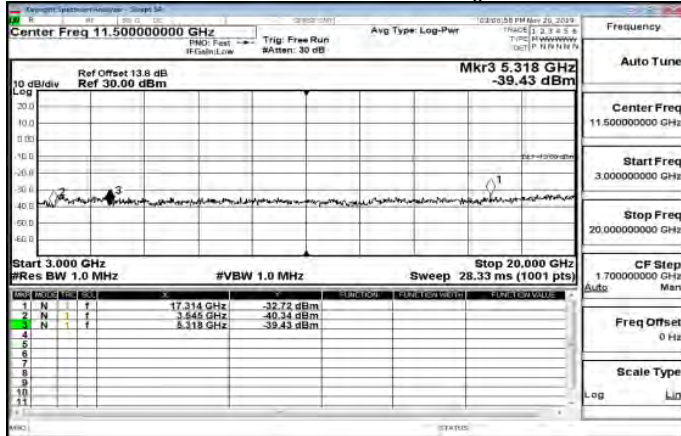
30MHz~3GHz_Band66_15MHz_QPSK_1_0_HighCH132597-1772.5



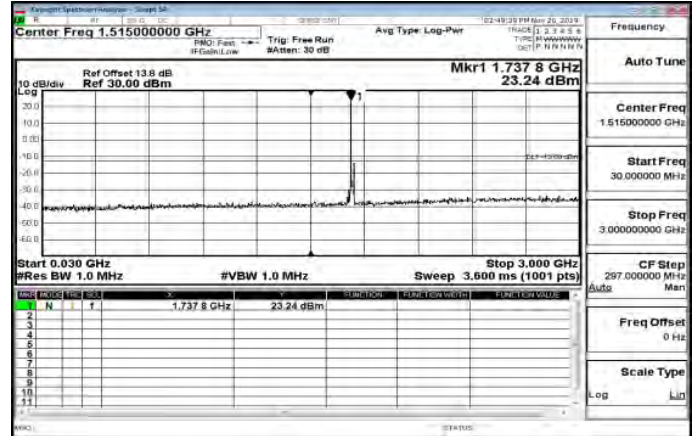
3GHz~10GHz_Band66_20MHz_QPSK_1_0_LowCH132072-1720



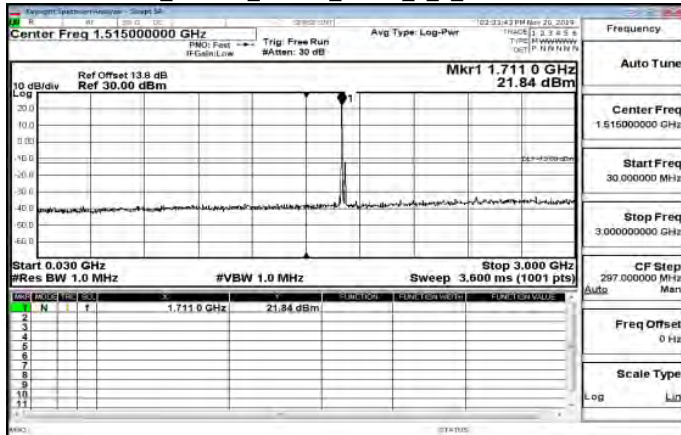
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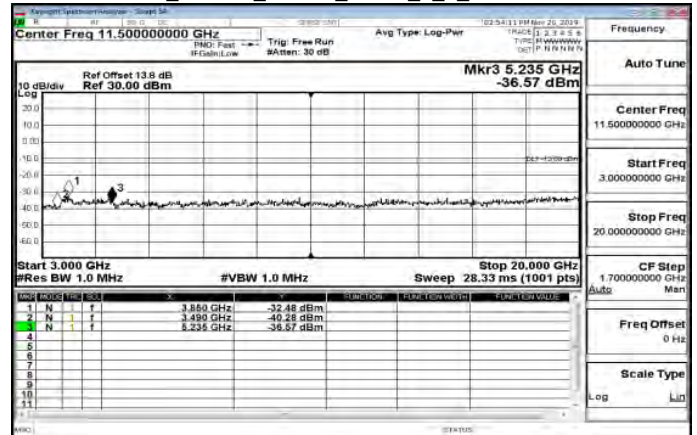
30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745



30MHz~3GHz_Band66_20MHz_QPSK_1_0_LowCH132072-1720



3GHz~10GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745

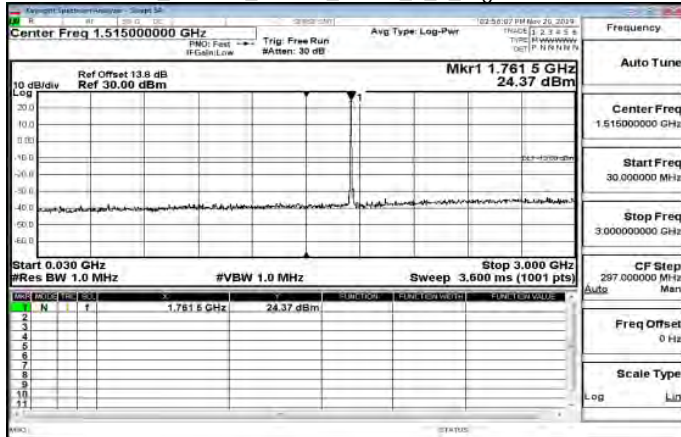


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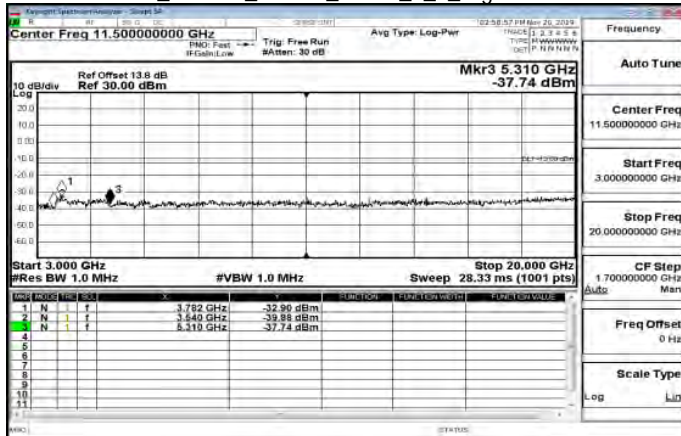
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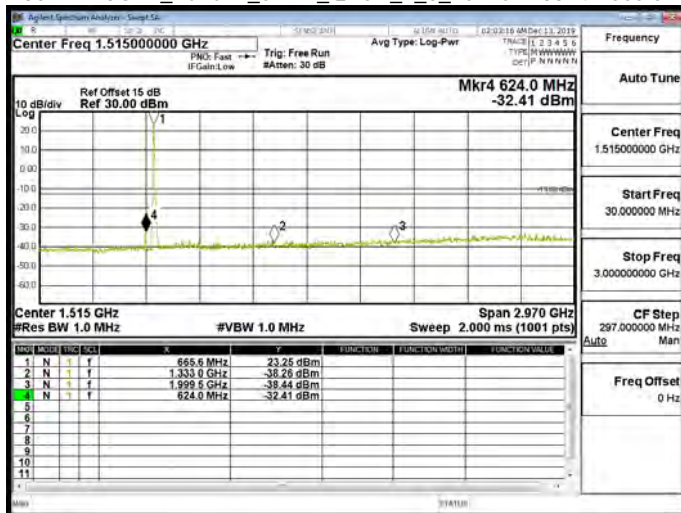
30MHz~3GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770



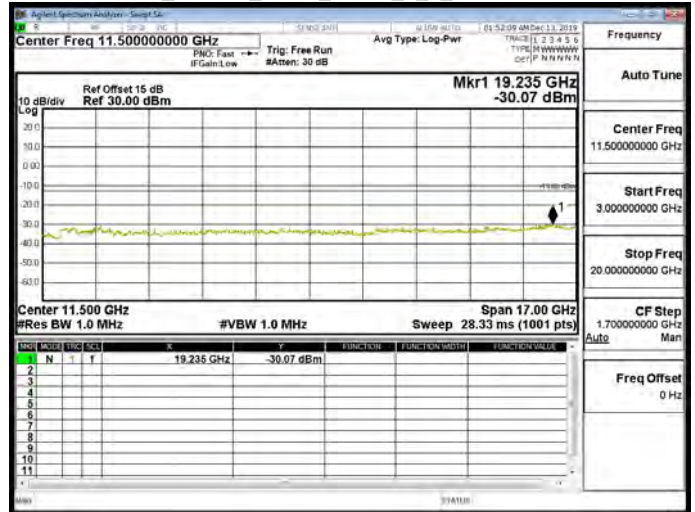
3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770



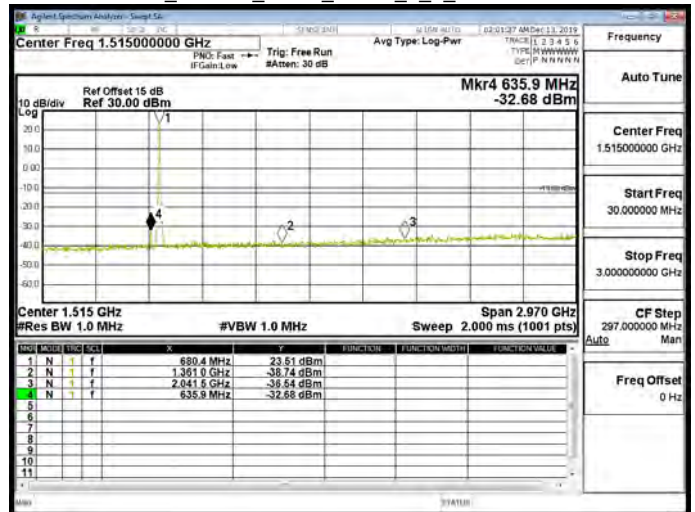
30MHz~3GHz_Band71_5MHz_QPSK_1_0_Low CH133147-665.5



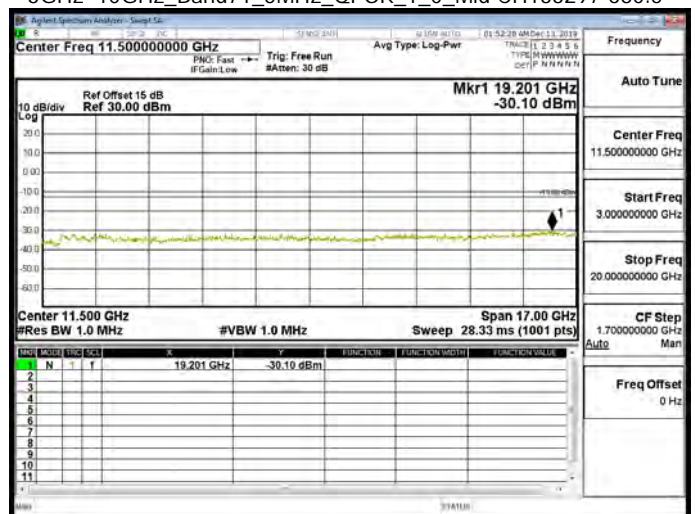
3GHz~10GHz_Band71_5MHz_QPSK_1_0_Low CH133147-665.5



30MHz~3GHz_Band71_5MHz_QPSK_1_0_Mid CH133297-680.5



3GHz~10GHz_Band71_5MHz_QPSK_1_0_Mid CH133297-680.5

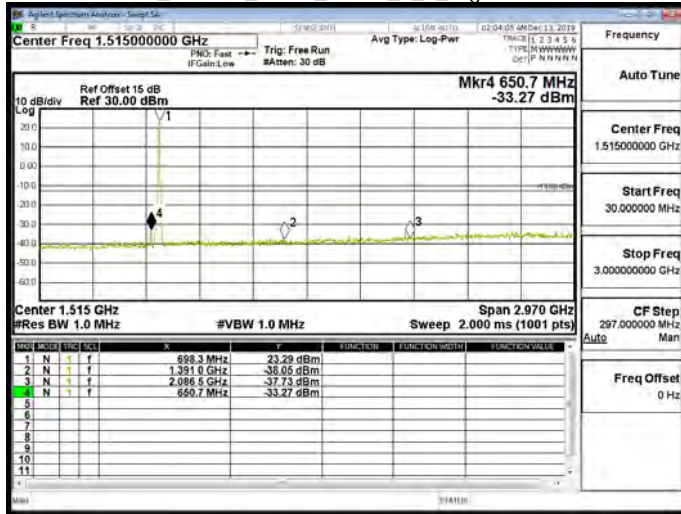


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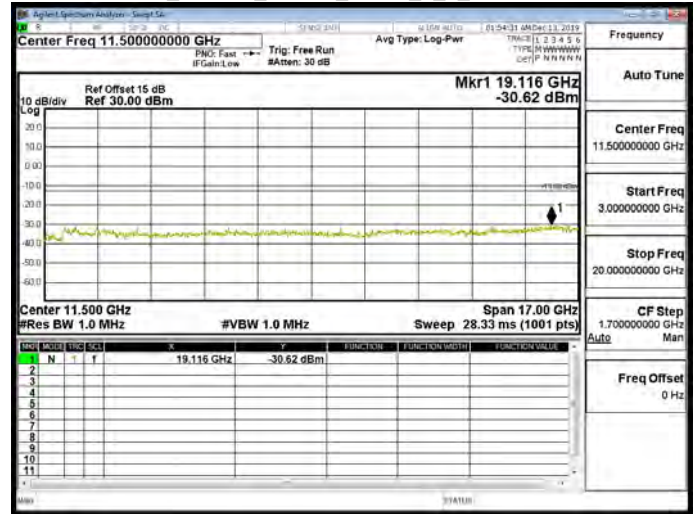
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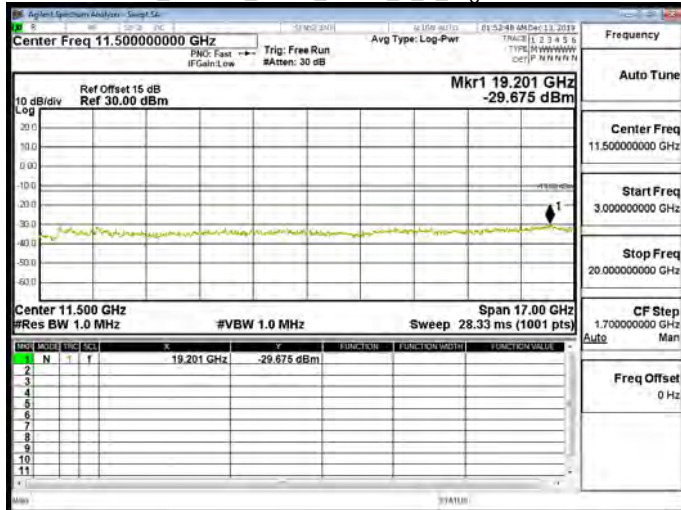
30MHz~3GHz_Band71_5MHz_QPSK_1_0_High CH133447-695.5



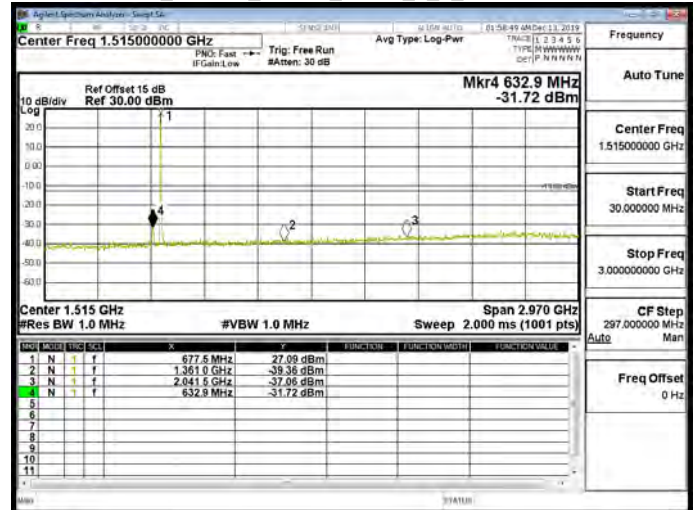
3GHz~10GHz_Band71_10MHz_QPSK_1_0_Low CH133172-668



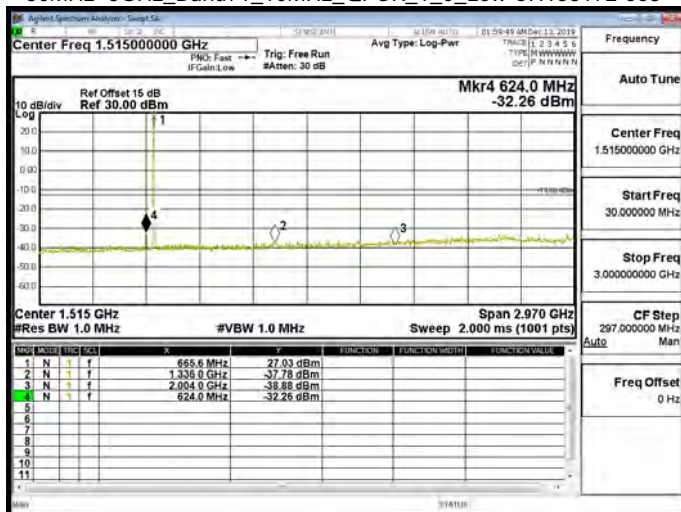
3GHz~10GHz_Band71_5MHz_QPSK_1_0_High CH133447-695.5



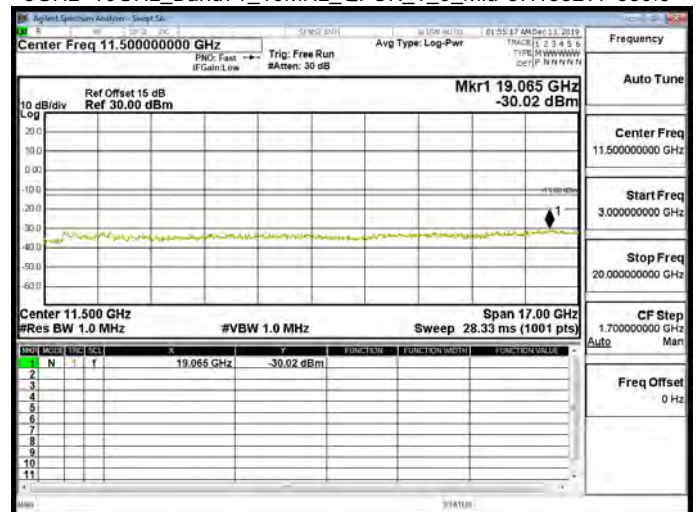
30MHz~3GHz_Band71_10MHz_QPSK_1_0_Mid CH133297-680.5



30MHz~3GHz_Band71_10MHz_QPSK_1_0_Low CH133172-668



3GHz~10GHz_Band71_10MHz_QPSK_1_0_Mid CH133297-680.5

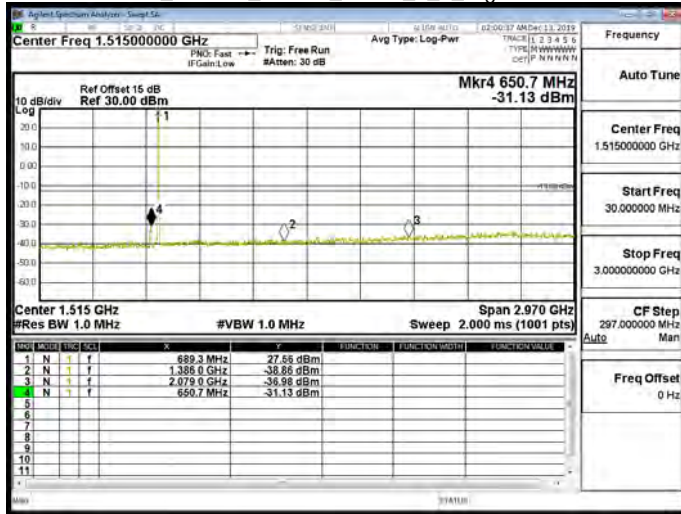


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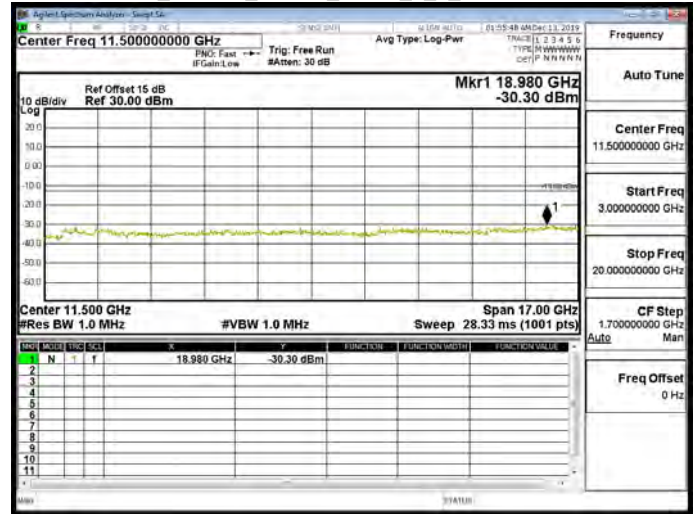
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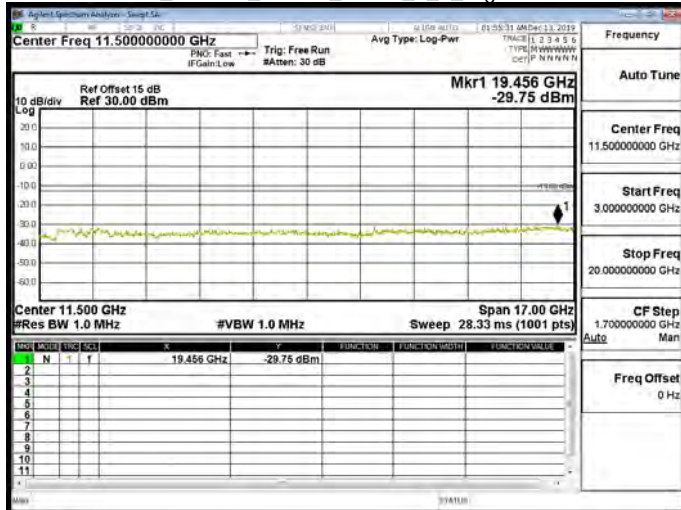
30MHz~3GHz_Band71_10MHz_QPSK_1_0_High CH133422-693



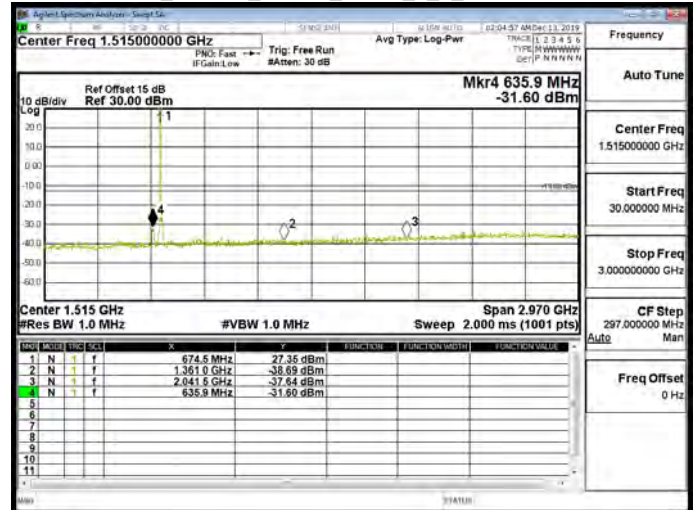
3GHz~10GHz_Band71_15MHz_QPSK_1_0_Low CH133197-670.5



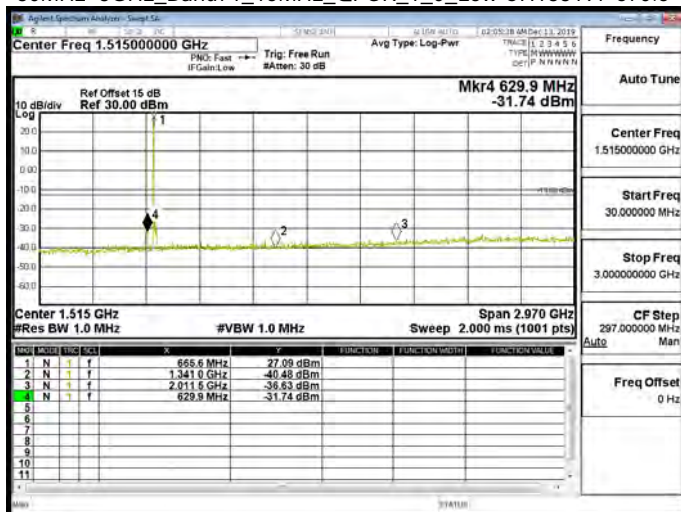
3GHz~10GHz_Band71_10MHz_QPSK_1_0_High CH133422-693



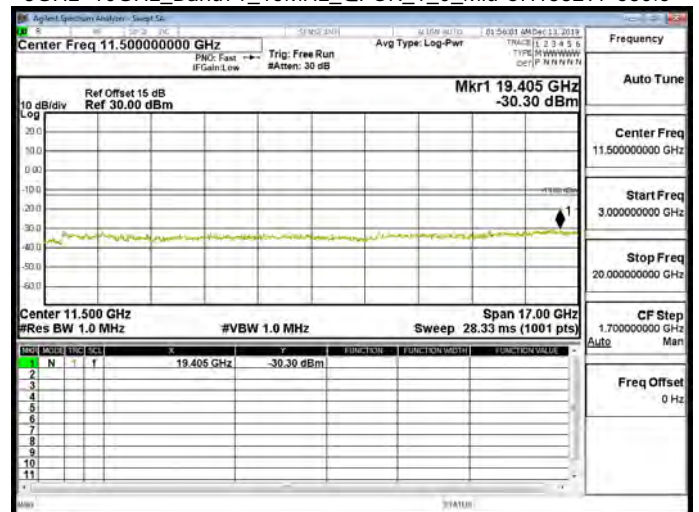
30MHz~3GHz_Band71_15MHz_QPSK_1_0_Mid CH133297-680.5



30MHz~3GHz_Band71_15MHz_QPSK_1_0_Low CH133197-670.5



3GHz~10GHz_Band71_15MHz_QPSK_1_0_Mid CH133297-680.5

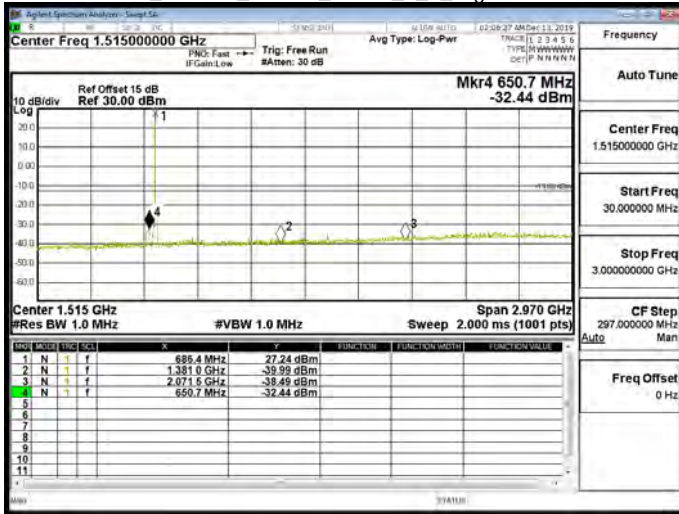


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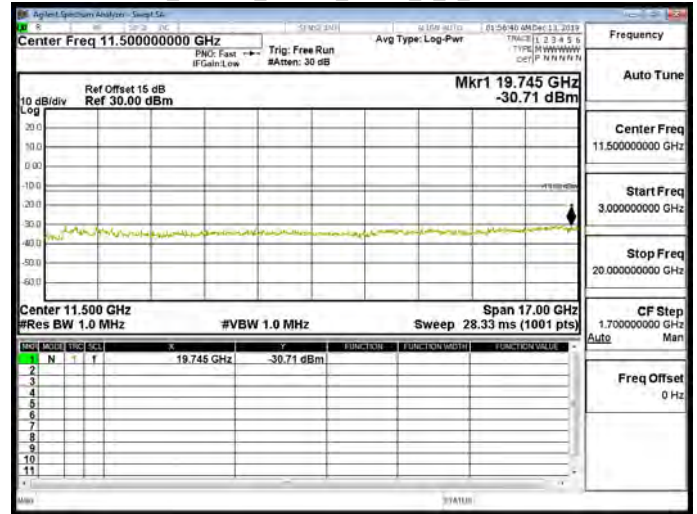
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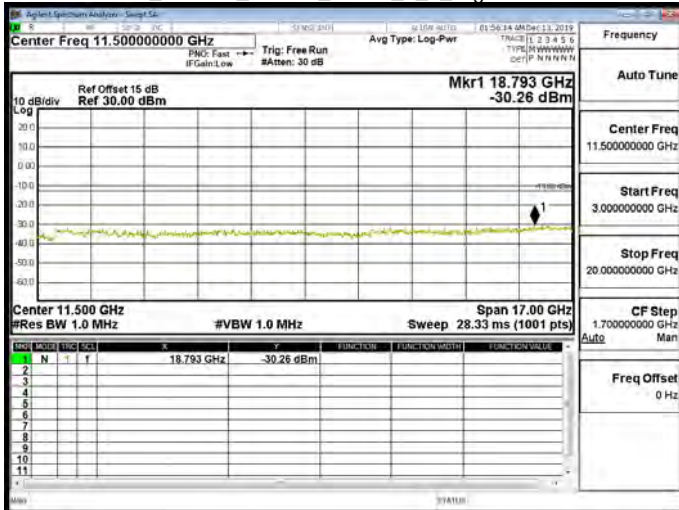
30MHz~3GHz_Band71_15MHz_QPSK_1_0_High CH133397-690.5



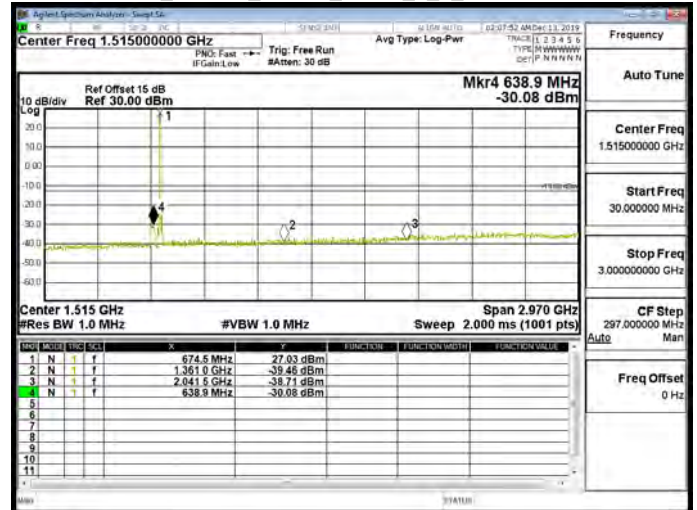
3GHz~10GHz_Band71_20MHz_QPSK_1_0_Low CH133222-673



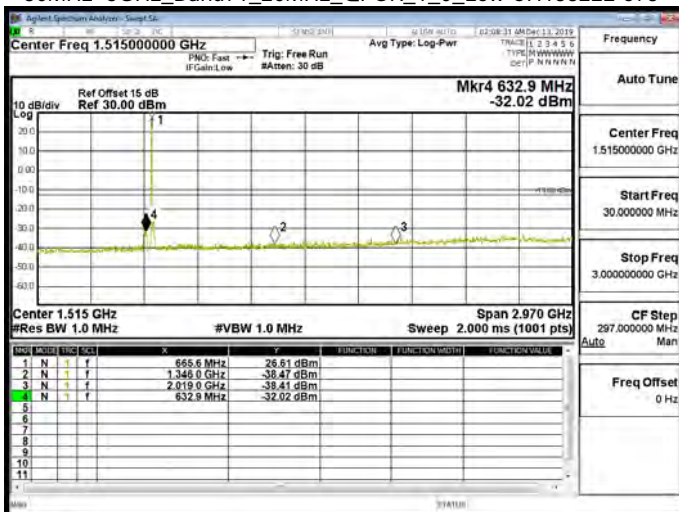
3GHz~10GHz_Band71_15MHz_QPSK_1_0_High CH133397-690.5



30MHz~3GHz_Band71_20MHz_QPSK_1_0_Mid CH133297-680.7



30MHz~3GHz_Band71_20MHz_QPSK_1_0_Low CH133222-673



3GHz~10GHz_Band71_20MHz_QPSK_1_0_Mid CH133297-680.7

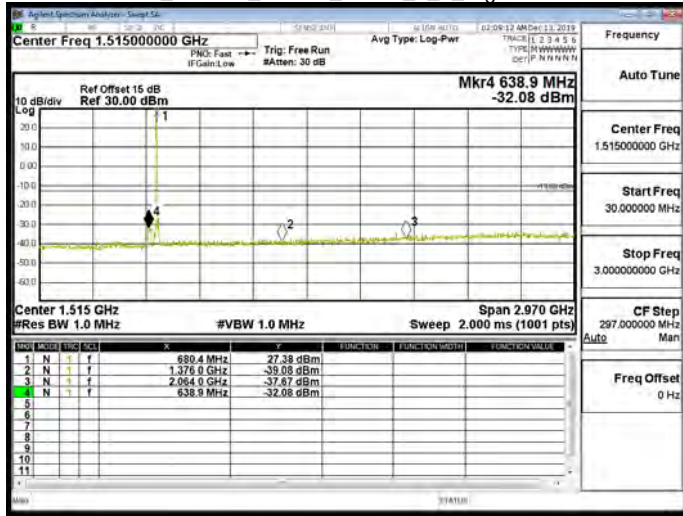


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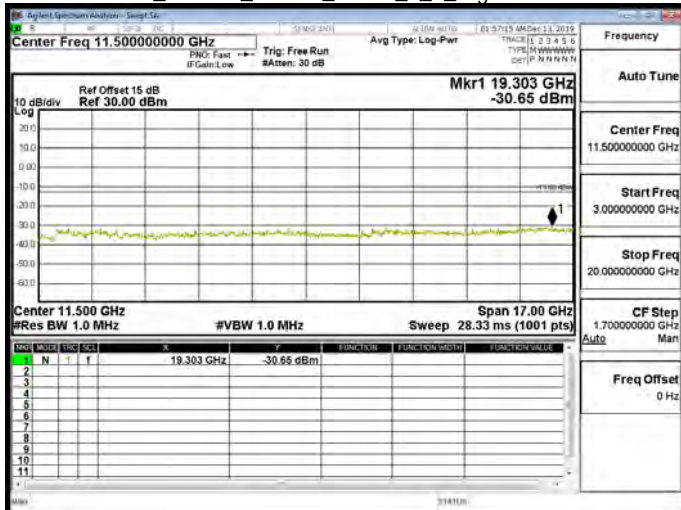
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30MHz~3GHz_Band71_20MHz_QPSK_1_0_High CH133372-688



3GHz~10GHz_Band71_20MHz_QPSK_1_0_High CH133372-688



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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(a) for LTE B30

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

FCC §27.53(c) for LTE B13

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

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

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

FCC §27.53 (f) for LTE B13

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

FCC §27.53(c) for LTE B13

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

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

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

FCC §27.53(c) (5) & FCC §27.53(g) for LTE B12, 13, 71

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(h)(3) for LTE B4, 66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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

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center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC §27.53(m) (4) (6) for LTE B7, 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.

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

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

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

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

FCC §90.543 (e) for LTE B14

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB

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

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

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

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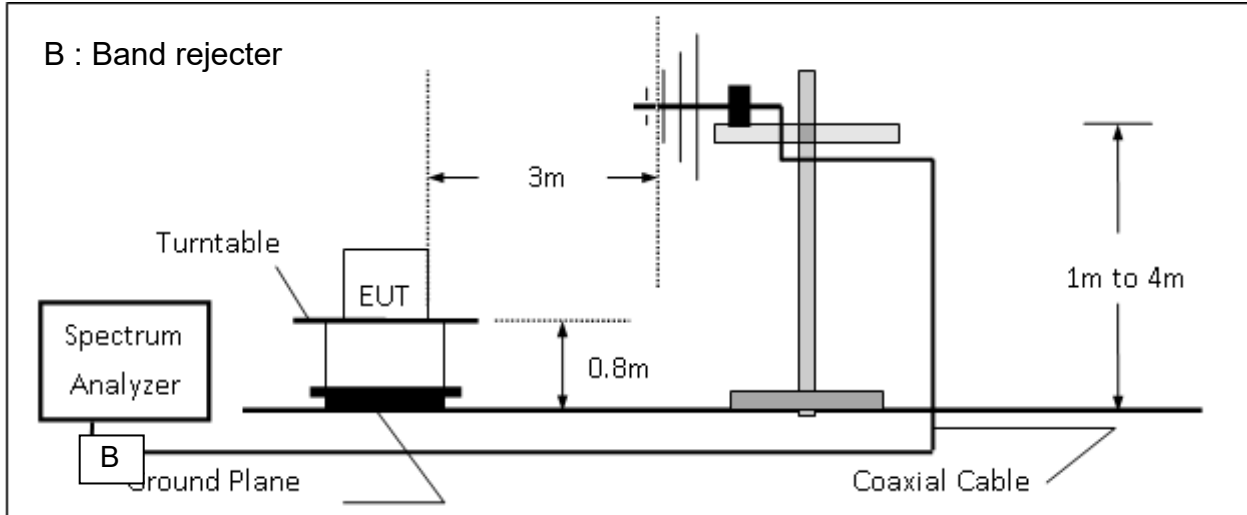
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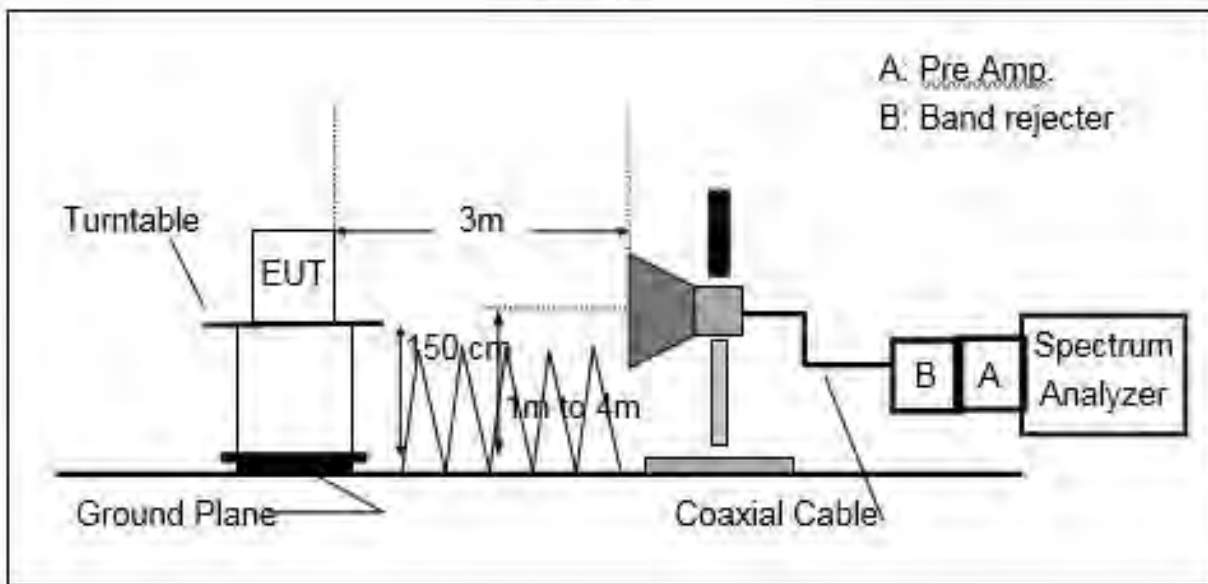
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9.2 EUT Setup

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.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/27/2018	12/26/2019
Loop Antenna	ETS.LINDGREN	6502	143303	04/25/2019	04/24/2020
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0037	RF54	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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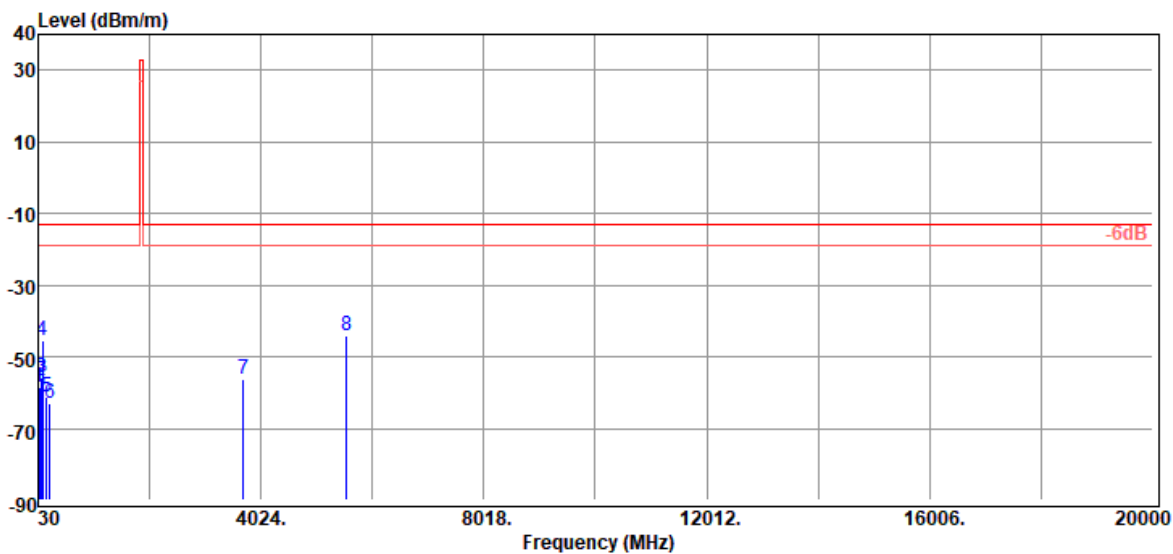
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9.5 Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2

Report Number :E2/2019/A0029
 Operation Mode :WCDMA B2
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Channel :1852.4 MHz

Test Date :2019-12-09
 Temp./Humi. :21.4/51
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-58.41	-41.21	-16.25	-0.95	-13.00	-45.41
78.50	-56.76	-46.78	-8.84	-1.14	-13.00	-43.76
91.11	-55.72	-48.69	-5.85	-1.18	-13.00	-42.72
116.33	-45.62	-37.04	-7.13	-1.45	-13.00	-32.62
186.17	-61.40	-56.16	-3.42	-1.82	-13.00	-48.40
246.31	-62.96	-59.02	-1.71	-2.23	-13.00	-49.96
3704.80	-56.31	-57.31	12.31	-11.31	-13.00	-43.31
5557.20	-44.02	-45.95	13.33	-11.40	-13.00	-31.02

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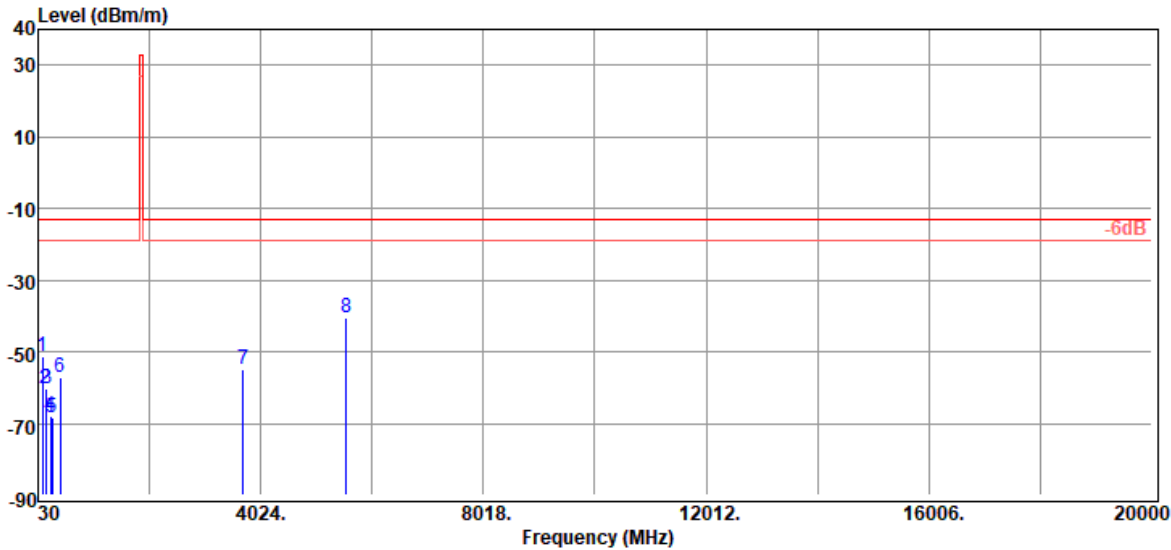
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B2
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :1852.4 MHz

Test Date :2019-12-09
Temp./Humi. :21.4/51
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-51.51	-42.93	-7.13	-1.45	-13.00	-38.51
163.86	-60.17	-51.81	-6.66	-1.70	-13.00	-47.17
183.26	-60.51	-54.88	-3.85	-1.78	-13.00	-47.51
250.19	-68.05	-64.24	-1.58	-2.23	-13.00	-55.05
284.14	-68.54	-64.44	-1.65	-2.45	-13.00	-55.54
423.82	-56.97	-52.49	-1.35	-3.13	-13.00	-43.97
3704.80	-55.11	-56.11	12.31	-11.31	-13.00	-42.11
5557.20	-40.62	-42.55	13.33	-11.40	-13.00	-27.62

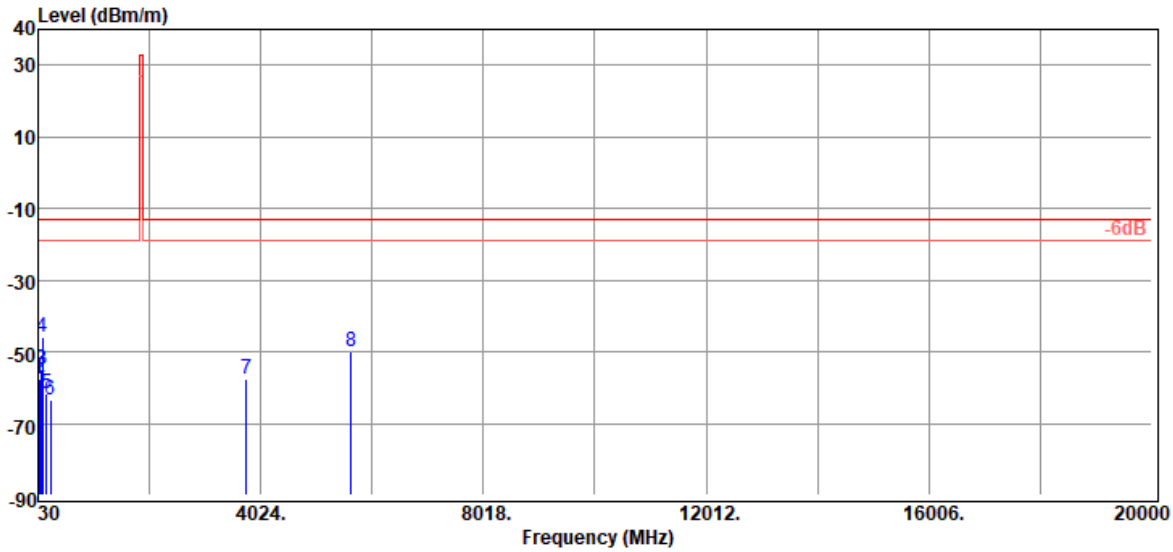
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1880 MHz

Test Date :2019-12-09
Temp./Humi. :21.4/51
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-57.58	-40.38	-16.25	-0.95	-13.00	-44.58
78.50	-57.24	-47.26	-8.84	-1.14	-13.00	-44.24
91.11	-55.12	-48.09	-5.85	-1.18	-13.00	-42.12
116.33	-45.72	-37.14	-7.13	-1.45	-13.00	-32.72
183.26	-61.72	-56.09	-3.85	-1.78	-13.00	-48.72
249.22	-63.27	-59.43	-1.61	-2.23	-13.00	-50.27
3760.00	-57.70	-59.04	12.42	-11.08	-13.00	-44.70
5640.00	-49.83	-51.76	13.50	-11.57	-13.00	-36.83

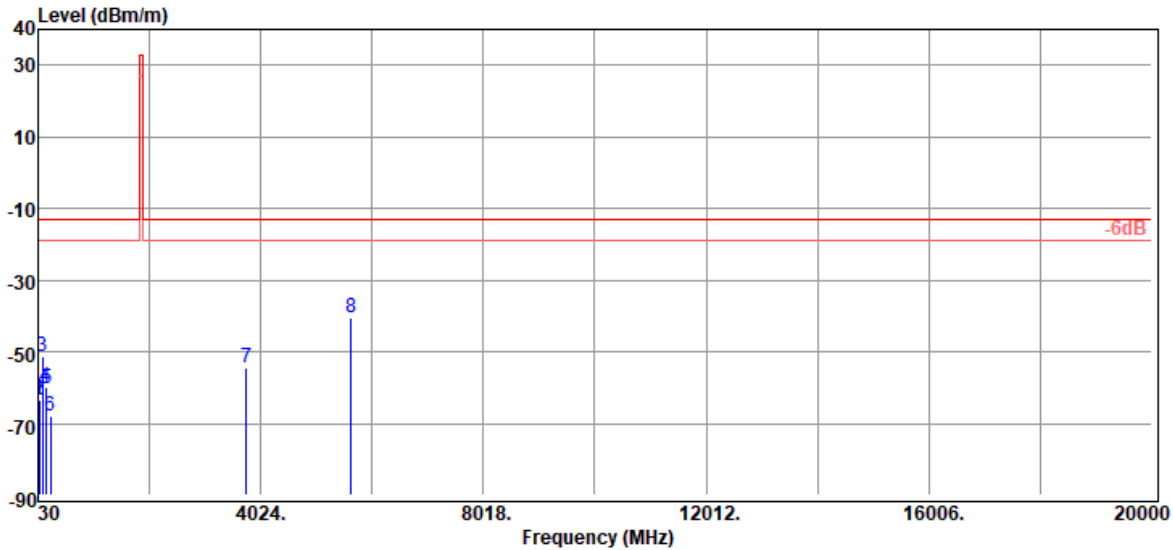
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1880 MHz

Test Date :2019-12-09
Temp./Humi. :21.4/51
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-63.15	-42.38	-20.09	-0.68	-13.00	-50.15
56.19	-63.62	-46.42	-16.25	-0.95	-13.00	-50.62
116.33	-51.53	-42.95	-7.13	-1.45	-13.00	-38.53
165.80	-60.08	-51.82	-6.55	-1.71	-13.00	-47.08
181.32	-60.19	-54.29	-4.14	-1.76	-13.00	-47.19
251.16	-67.76	-63.97	-1.56	-2.23	-13.00	-54.76
3760.00	-54.41	-55.75	12.42	-11.08	-13.00	-41.41
5640.00	-40.30	-42.23	13.50	-11.57	-13.00	-27.30

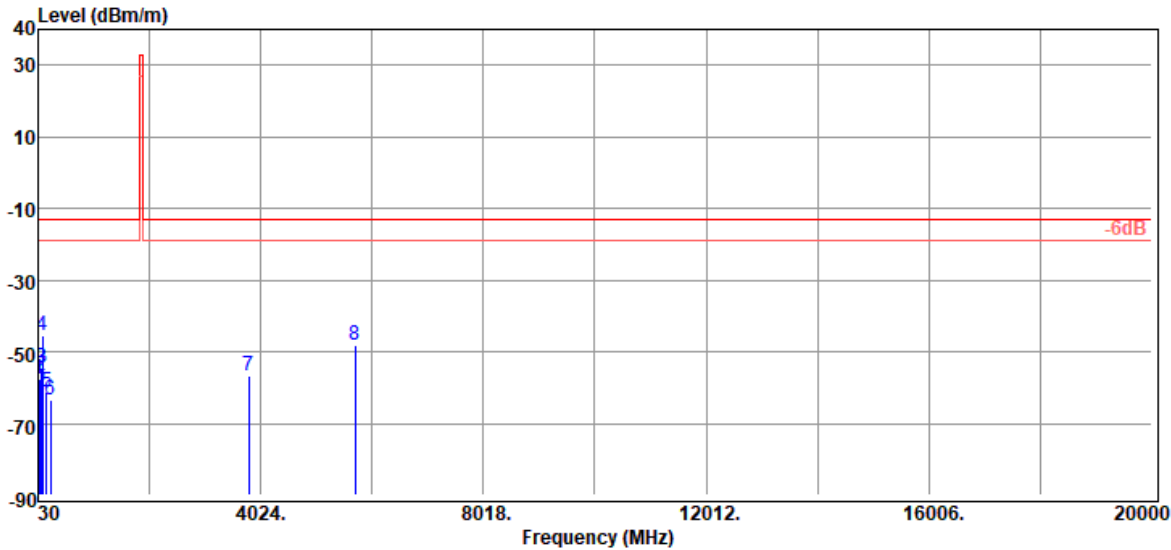
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1907.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.4/51
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-57.67	-40.47	-16.25	-0.95	-13.00	-44.67
78.50	-56.88	-46.90	-8.84	-1.14	-13.00	-43.88
91.11	-54.53	-47.50	-5.85	-1.18	-13.00	-41.53
116.33	-45.60	-37.02	-7.13	-1.45	-13.00	-32.60
185.20	-61.40	-56.02	-3.57	-1.81	-13.00	-48.40
252.13	-63.58	-59.79	-1.55	-2.24	-13.00	-50.58
3815.20	-56.78	-58.39	12.50	-10.89	-13.00	-43.78
5722.80	-47.98	-49.63	13.35	-11.70	-13.00	-34.98

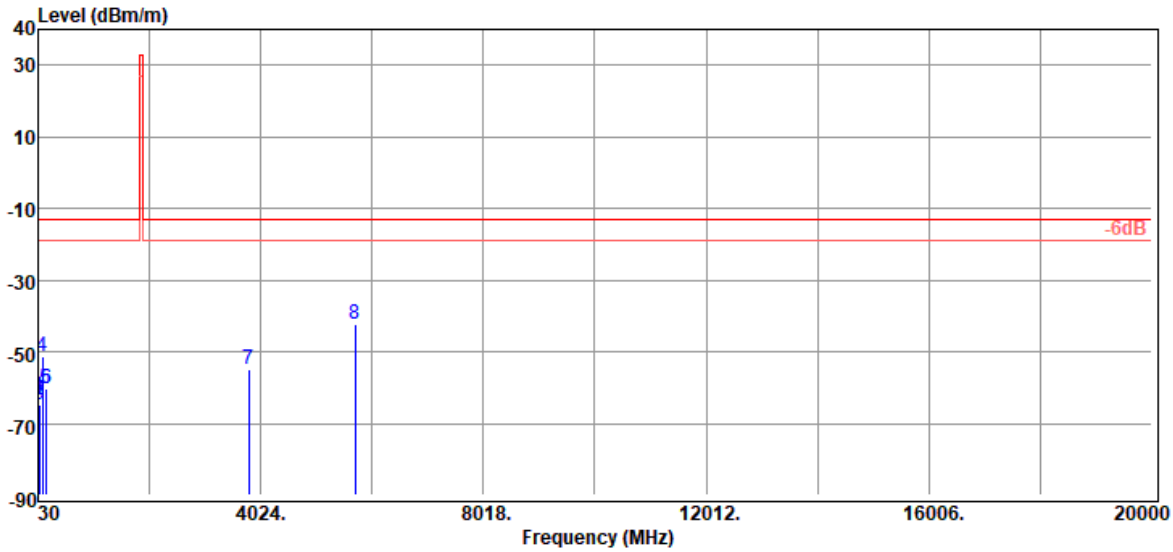
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1907.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.4/51
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-62.74	-41.97	-20.09	-0.68	-13.00	-49.74
38.73	-63.41	-43.33	-19.25	-0.83	-13.00	-50.41
55.22	-65.02	-47.61	-16.48	-0.93	-13.00	-52.02
115.36	-51.17	-42.58	-7.14	-1.45	-13.00	-38.17
163.86	-60.22	-51.86	-6.66	-1.70	-13.00	-47.22
184.23	-60.30	-54.80	-3.71	-1.79	-13.00	-47.30
3815.20	-55.07	-56.68	12.50	-10.89	-13.00	-42.07
5722.80	-42.24	-43.89	13.35	-11.70	-13.00	-29.24

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Radiated Spurious Emission Measurement Result: WCDMA Band 4

Report Number :E2/2019/A0029

Test Date :2019-12-09

Operation Mode :WCDMA B4

Temp./Humi. :21.5/49

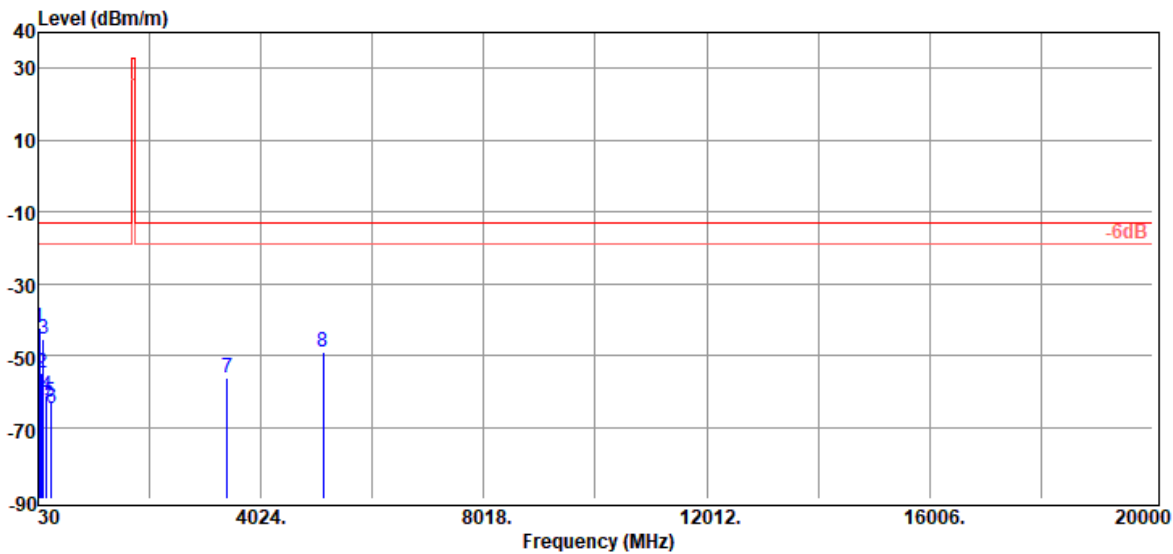
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Ashton

Test Channel :1712.4 MHz



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-42.39	-25.19	-16.25	-0.95	-13.00	-29.39
91.11	-54.80	-47.77	-5.85	-1.18	-13.00	-41.80
117.30	-45.57	-37.03	-7.09	-1.45	-13.00	-32.57
183.26	-61.33	-55.70	-3.85	-1.78	-13.00	-48.33
248.25	-62.82	-58.95	-1.64	-2.23	-13.00	-49.82
265.71	-64.86	-61.01	-1.58	-2.27	-13.00	-51.86
3424.80	-56.04	-57.40	12.65	-11.29	-13.00	-43.04
5137.20	-49.28	-49.95	12.47	-11.80	-13.00	-36.28

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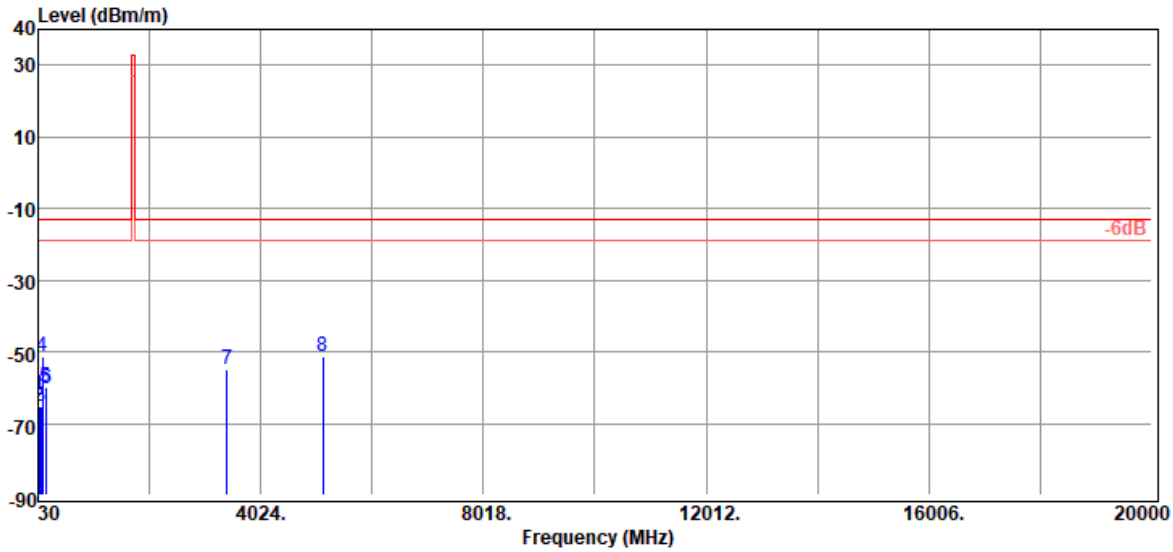
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B4
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :1712.4 MHz

Test Date :2019-12-09
Temp./Humi. :21.5/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-62.12	-41.62	-19.77	-0.73	-13.00	-49.12
55.22	-65.07	-47.66	-16.48	-0.93	-13.00	-52.07
75.59	-65.30	-54.36	-9.85	-1.09	-13.00	-52.30
116.33	-51.27	-42.69	-7.13	-1.45	-13.00	-38.27
164.83	-59.66	-51.35	-6.60	-1.71	-13.00	-46.66
183.26	-60.41	-54.78	-3.85	-1.78	-13.00	-47.41
3424.80	-55.02	-56.38	12.65	-11.29	-13.00	-42.02
5137.20	-51.29	-51.96	12.47	-11.80	-13.00	-38.29

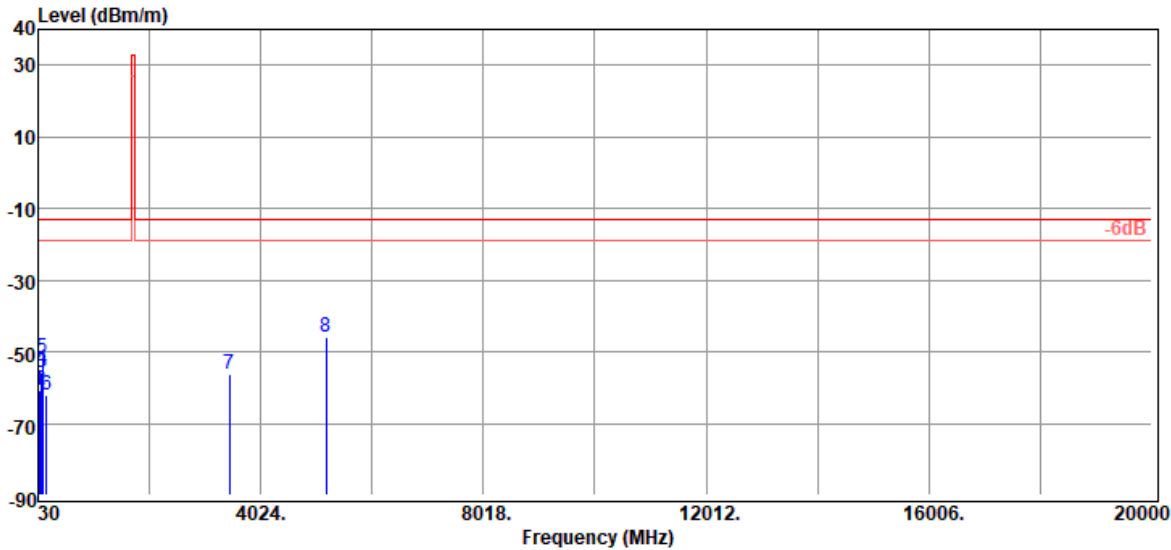
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1732.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.5/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-60.95	-43.75	-16.25	-0.95	-13.00	-47.95
79.47	-60.83	-51.14	-8.54	-1.15	-13.00	-47.83
91.11	-56.02	-48.99	-5.85	-1.18	-13.00	-43.02
103.72	-54.91	-46.90	-6.64	-1.37	-13.00	-41.91
113.42	-51.92	-43.32	-7.15	-1.45	-13.00	-38.92
184.23	-61.91	-56.41	-3.71	-1.79	-13.00	-48.91
3465.20	-56.24	-57.72	12.51	-11.03	-13.00	-43.24
5197.80	-46.13	-46.83	12.69	-11.99	-13.00	-33.13

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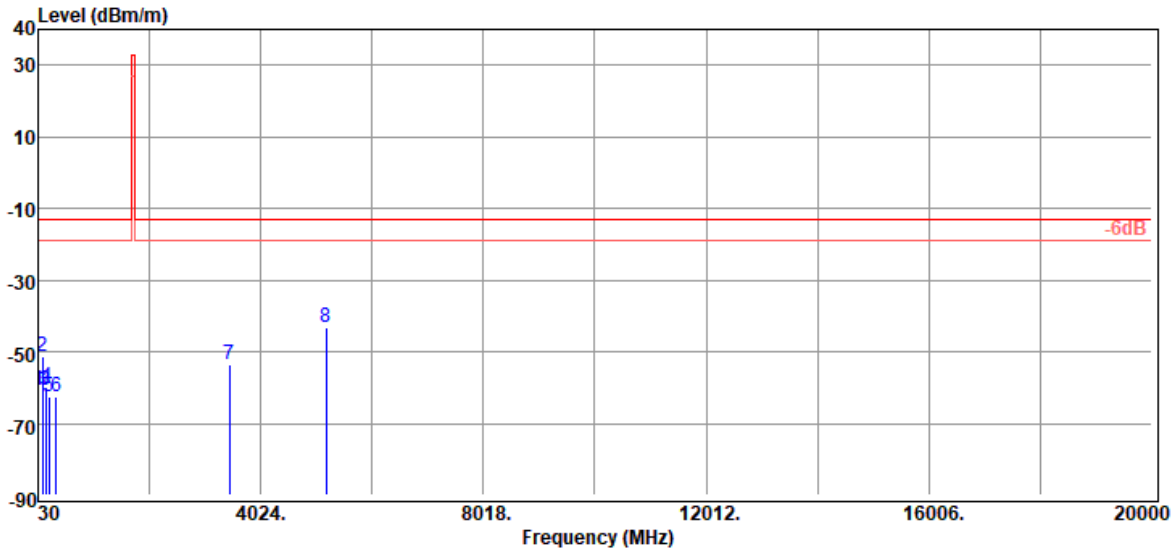
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1732.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.5/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-60.84	-40.29	-19.84	-0.71	-13.00	-47.84
116.33	-51.38	-42.80	-7.13	-1.45	-13.00	-38.38
163.86	-60.90	-52.54	-6.66	-1.70	-13.00	-47.90
181.32	-59.71	-53.81	-4.14	-1.76	-13.00	-46.71
228.85	-62.64	-59.09	-1.36	-2.19	-13.00	-49.64
358.83	-62.56	-58.59	-1.39	-2.58	-13.00	-49.56
3465.20	-53.51	-54.99	12.51	-11.03	-13.00	-40.51
5197.80	-43.17	-43.87	12.69	-11.99	-13.00	-30.17

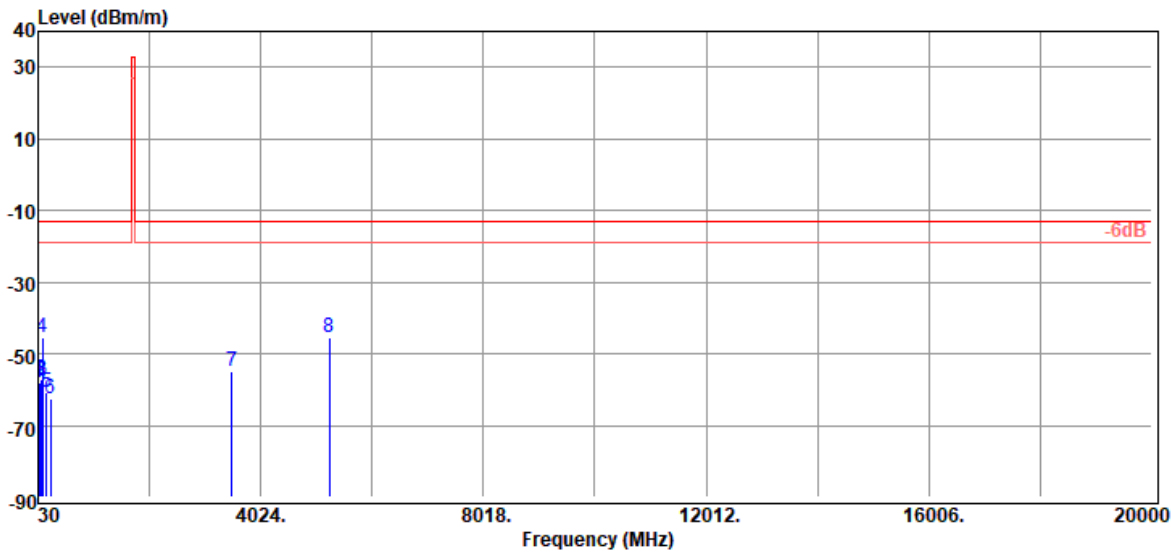
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1752.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.5/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-57.88	-40.68	-16.25	-0.95	-13.00	-44.88
77.53	-57.57	-47.30	-9.15	-1.12	-13.00	-44.57
91.11	-57.06	-50.03	-5.85	-1.18	-13.00	-44.06
116.33	-45.46	-36.88	-7.13	-1.45	-13.00	-32.46
186.17	-60.61	-55.37	-3.42	-1.82	-13.00	-47.61
250.19	-62.45	-58.64	-1.58	-2.23	-13.00	-49.45
3505.20	-55.11	-56.58	12.30	-10.83	-13.00	-42.11
5257.80	-45.46	-46.75	13.13	-11.84	-13.00	-32.46

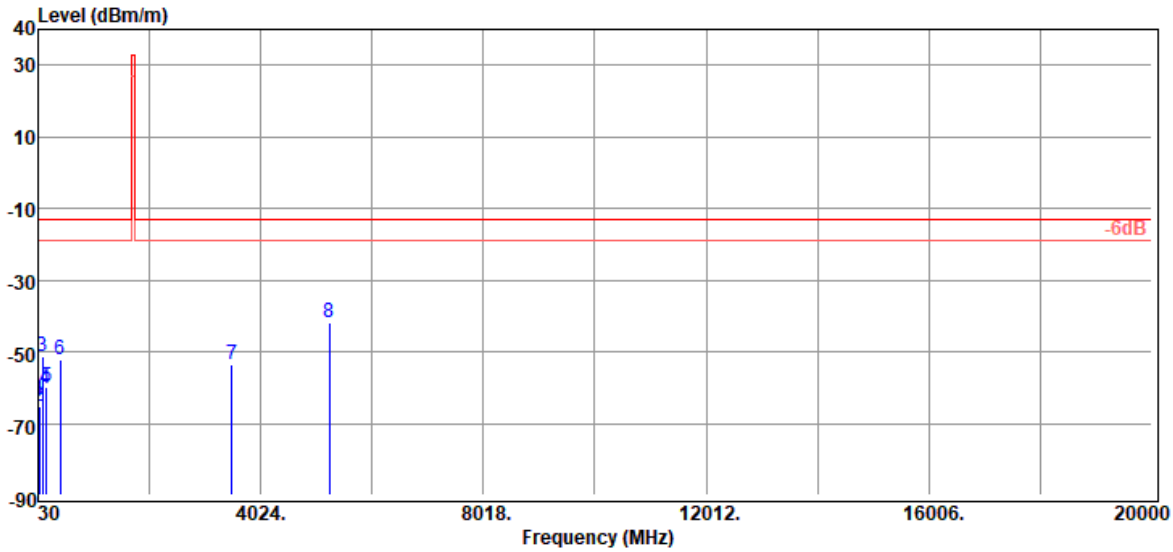
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1752.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.5/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-63.49	-43.09	-19.64	-0.76	-13.00	-50.49
55.22	-65.09	-47.68	-16.48	-0.93	-13.00	-52.09
115.36	-51.29	-42.70	-7.14	-1.45	-13.00	-38.29
167.74	-60.34	-52.16	-6.45	-1.73	-13.00	-47.34
183.26	-59.84	-54.21	-3.85	-1.78	-13.00	-46.84
422.85	-52.38	-47.92	-1.33	-3.13	-13.00	-39.38
3505.20	-53.67	-55.14	12.30	-10.83	-13.00	-40.67
5257.80	-42.03	-43.32	13.13	-11.84	-13.00	-29.03

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Radiated Spurious Emission Measurement Result: WCDMA Band 5

Report Number :E2/2019/A0029

Test Date :2019-12-09

Operation Mode :WCDMA B5

Temp./Humi. :21.7/52

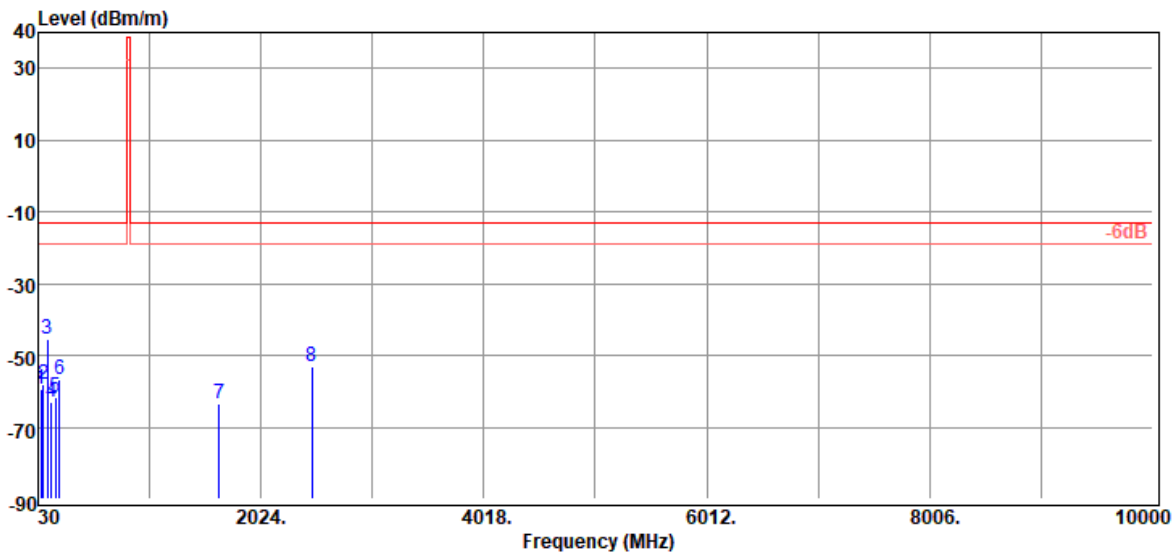
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

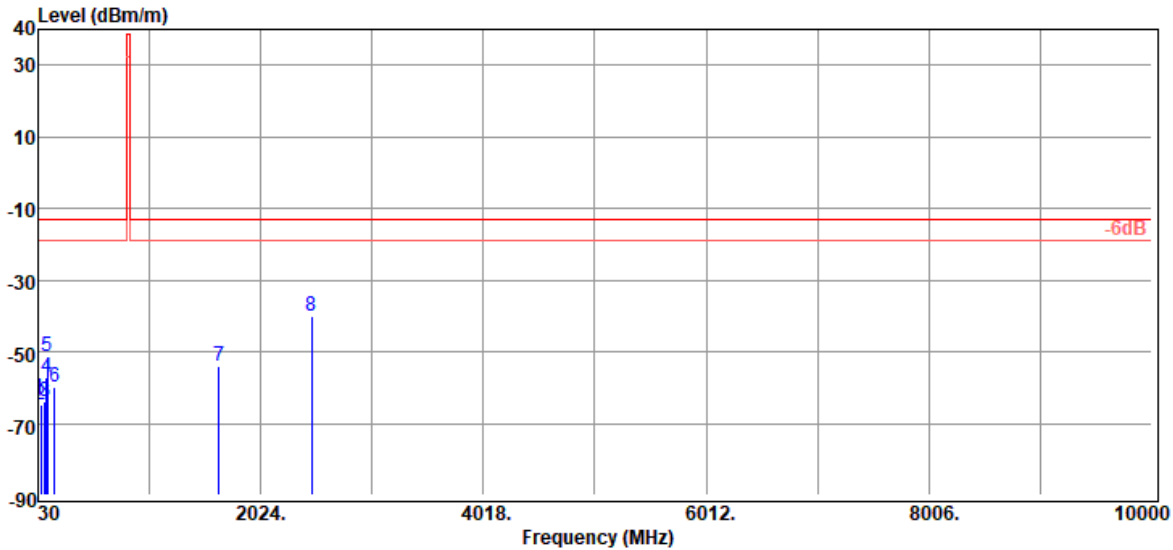
Engineer :Ashton

Test Channel :826.4 MHz



Report Number :E2/2019/A0029
Operation Mode :WCDMA B5
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :826.4 MHz

Test Date :2019-12-09
Temp./Humi. :21.7/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-62.83	-42.62	-19.43	-0.78	-13.00	-49.83
56.19	-64.75	-47.55	-16.25	-0.95	-13.00	-51.75
91.11	-63.89	-56.86	-5.85	-1.18	-13.00	-50.89
105.66	-57.34	-49.11	-6.83	-1.40	-13.00	-44.34
116.33	-51.52	-42.94	-7.13	-1.45	-13.00	-38.52
179.38	-59.87	-53.61	-4.52	-1.74	-13.00	-46.87
1652.80	-54.04	-55.82	9.33	-7.55	-13.00	-41.04
2479.20	-40.24	-41.79	10.56	-9.01	-13.00	-27.24

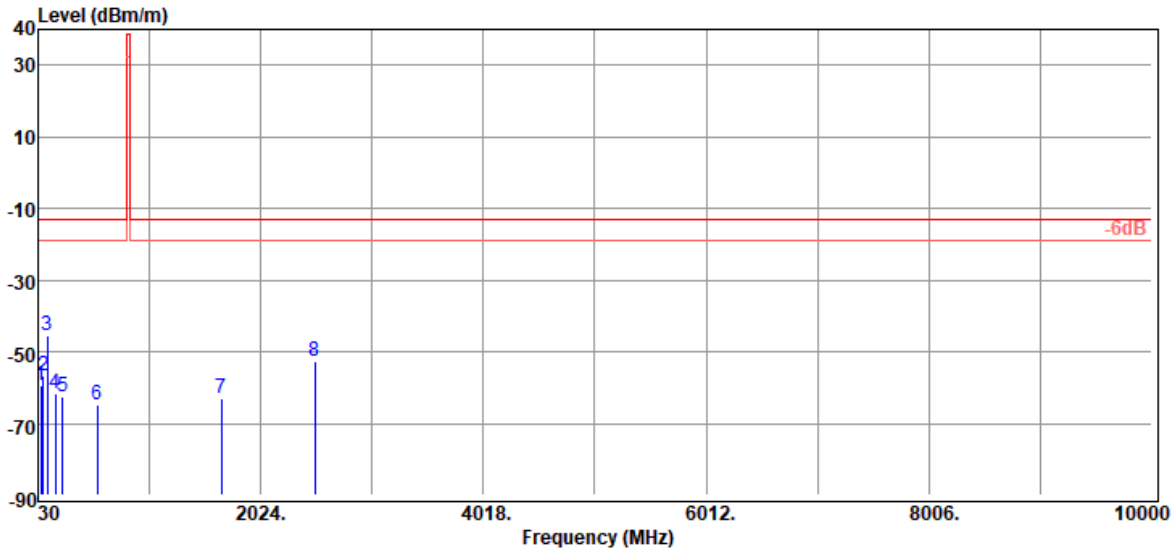
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B5
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :836.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.7/52
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-59.58	-42.38	-16.25	-0.95	-13.00	-46.58
78.50	-56.81	-46.83	-8.84	-1.14	-13.00	-43.81
116.33	-45.53	-36.95	-7.13	-1.45	-13.00	-32.53
185.20	-61.86	-56.48	-3.57	-1.81	-13.00	-48.86
251.16	-62.67	-58.88	-1.56	-2.23	-13.00	-49.67
561.56	-64.93	-60.19	-1.29	-3.45	-13.00	-51.93
1673.20	-62.97	-64.82	9.53	-7.68	-13.00	-49.97
2509.80	-52.76	-54.33	10.62	-9.05	-13.00	-39.76

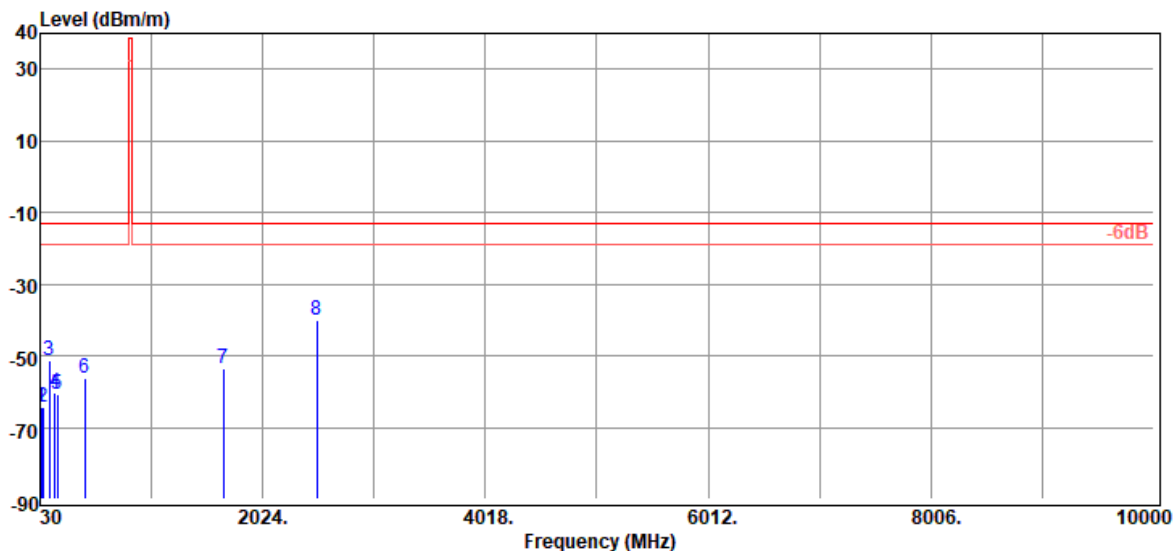
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B5
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :836.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.7/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-64.45	-44.67	-18.92	-0.86	-13.00	-51.45
56.19	-64.46	-47.26	-16.25	-0.95	-13.00	-51.46
116.33	-51.44	-42.86	-7.13	-1.45	-13.00	-38.44
164.83	-60.39	-52.08	-6.60	-1.71	-13.00	-47.39
183.26	-60.57	-54.94	-3.85	-1.78	-13.00	-47.57
427.70	-56.06	-51.51	-1.42	-3.13	-13.00	-43.06
1673.20	-53.41	-55.26	9.53	-7.68	-13.00	-40.41
2509.80	-40.18	-41.75	10.62	-9.05	-13.00	-27.18

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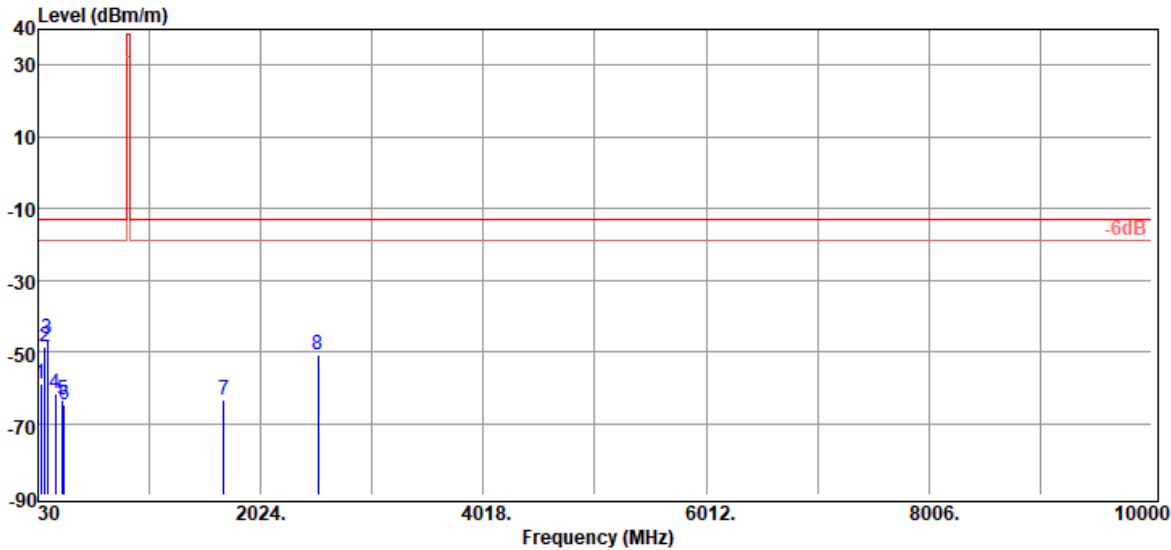
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B5
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :846.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.7/52
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-59.03	-41.83	-16.25	-0.95	-13.00	-46.03
92.08	-48.60	-41.64	-5.76	-1.20	-13.00	-35.60
115.36	-46.27	-37.68	-7.14	-1.45	-13.00	-33.27
185.20	-61.75	-56.37	-3.57	-1.81	-13.00	-48.75
250.19	-63.46	-59.65	-1.58	-2.23	-13.00	-50.46
265.71	-64.83	-60.98	-1.58	-2.27	-13.00	-51.83
1693.20	-63.33	-65.25	9.73	-7.81	-13.00	-50.33
2539.80	-50.74	-52.34	10.68	-9.08	-13.00	-37.74

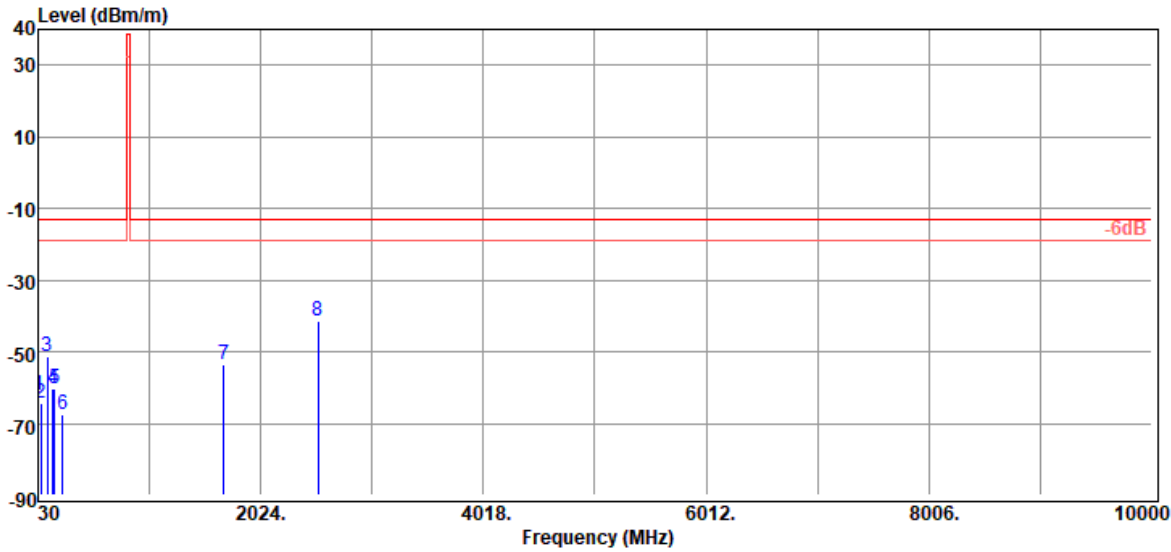
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Report Number :E2/2019/A0029
Operation Mode :WCDMA B5
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :846.6 MHz

Test Date :2019-12-09
Temp./Humi. :21.7/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-62.08	-41.06	-20.36	-0.66	-13.00	-49.08
56.19	-64.52	-47.32	-16.25	-0.95	-13.00	-51.52
116.33	-51.40	-42.82	-7.13	-1.45	-13.00	-38.40
164.83	-60.24	-51.93	-6.60	-1.71	-13.00	-47.24
180.35	-60.53	-54.44	-4.35	-1.74	-13.00	-47.53
250.19	-67.72	-63.91	-1.58	-2.23	-13.00	-54.72
1693.20	-53.65	-55.57	9.73	-7.81	-13.00	-40.65
2539.80	-41.38	-42.98	10.68	-9.08	-13.00	-28.38

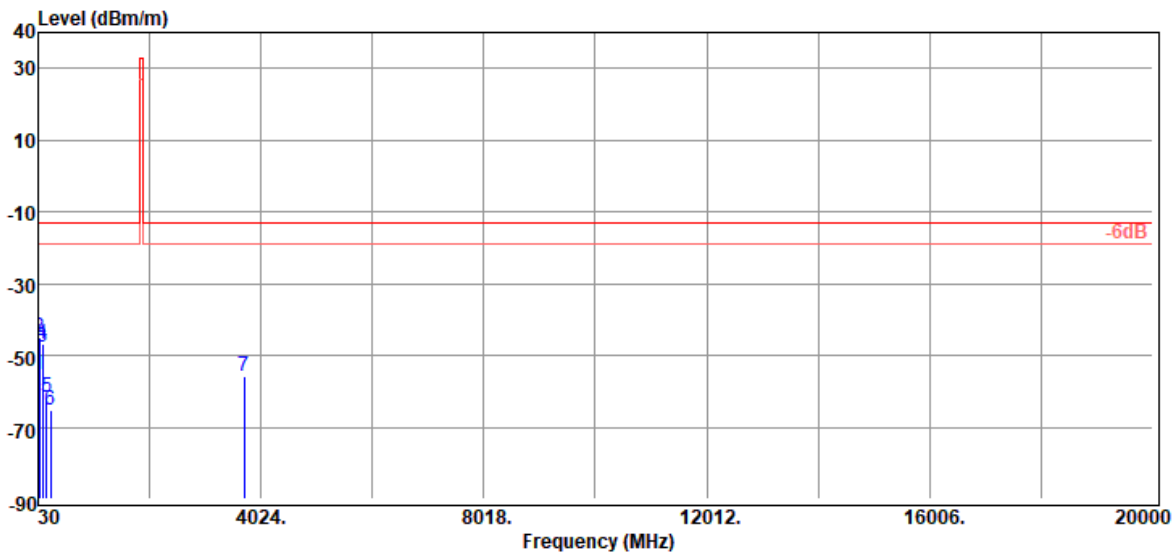
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Radiated Spurious Emission Measurement Result: LTE Band 2 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B2	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1860 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-55.15	-35.00	-19.35	-0.80	-13.00	-42.15
55.22	-44.84	-27.43	-16.48	-0.93	-13.00	-31.84
104.69	-47.83	-39.66	-6.78	-1.39	-13.00	-34.83
116.33	-46.78	-38.20	-7.13	-1.45	-13.00	-33.78
184.23	-61.68	-56.18	-3.71	-1.79	-13.00	-48.68
253.10	-65.29	-61.51	-1.54	-2.24	-13.00	-52.29
3720.00	-55.85	-56.94	12.34	-11.25	-13.00	-42.85

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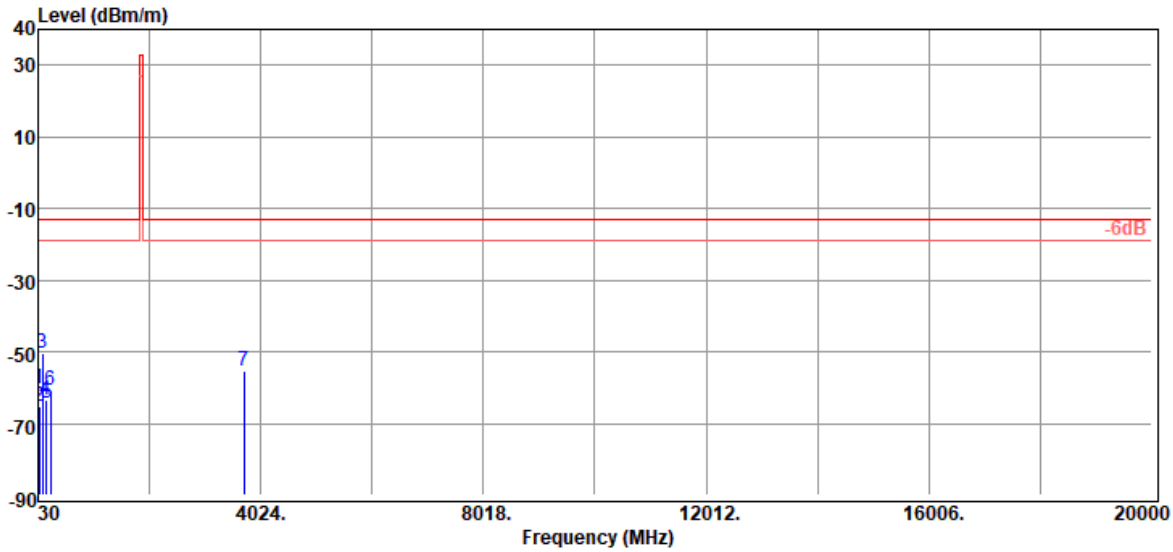
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Report Number :E2/2019/A0029
Operation Mode :LTE B2
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :1860 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-60.50	-40.62	-19.02	-0.86	-13.00	-47.50
56.19	-65.10	-47.90	-16.25	-0.95	-13.00	-52.10
116.33	-50.22	-41.64	-7.13	-1.45	-13.00	-37.22
160.95	-63.62	-55.03	-6.90	-1.69	-13.00	-50.62
180.35	-64.20	-58.11	-4.35	-1.74	-13.00	-51.20
251.16	-60.88	-57.09	-1.56	-2.23	-13.00	-47.88
3720.00	-55.34	-56.43	12.34	-11.25	-13.00	-42.34

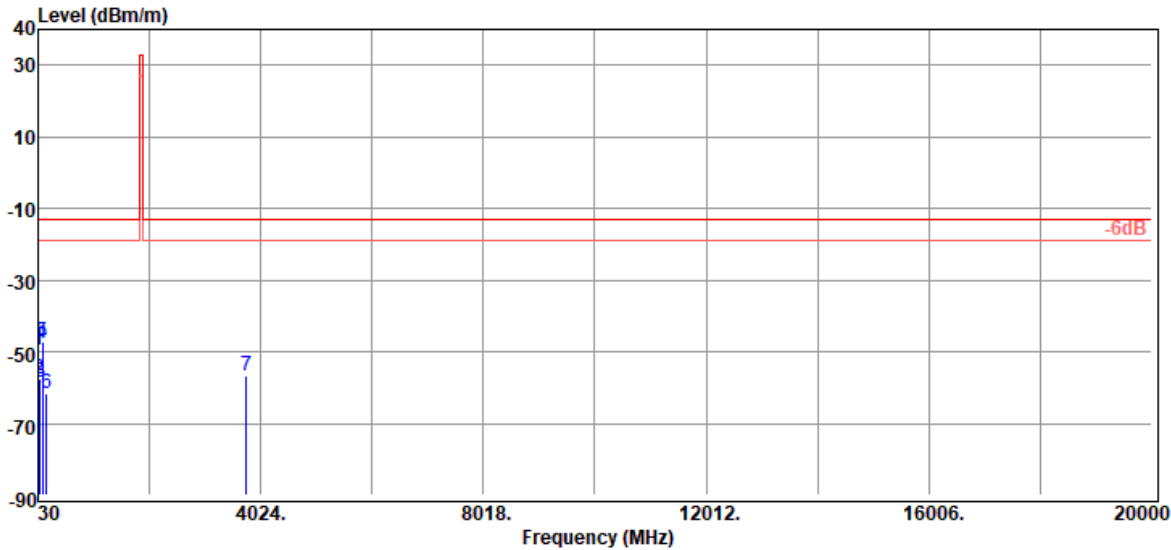
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Report Number :E2/2019/A0029
Operation Mode :LTE B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1880 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-49.73	-29.95	-18.92	-0.86	-13.00	-36.73
57.16	-57.82	-40.80	-16.06	-0.96	-13.00	-44.82
62.98	-58.59	-43.33	-14.26	-1.00	-13.00	-45.59
104.69	-47.80	-39.63	-6.78	-1.39	-13.00	-34.80
116.33	-47.06	-38.48	-7.13	-1.45	-13.00	-34.06
183.26	-61.78	-56.15	-3.85	-1.78	-13.00	-48.78
3760.00	-56.60	-57.94	12.42	-11.08	-13.00	-43.60

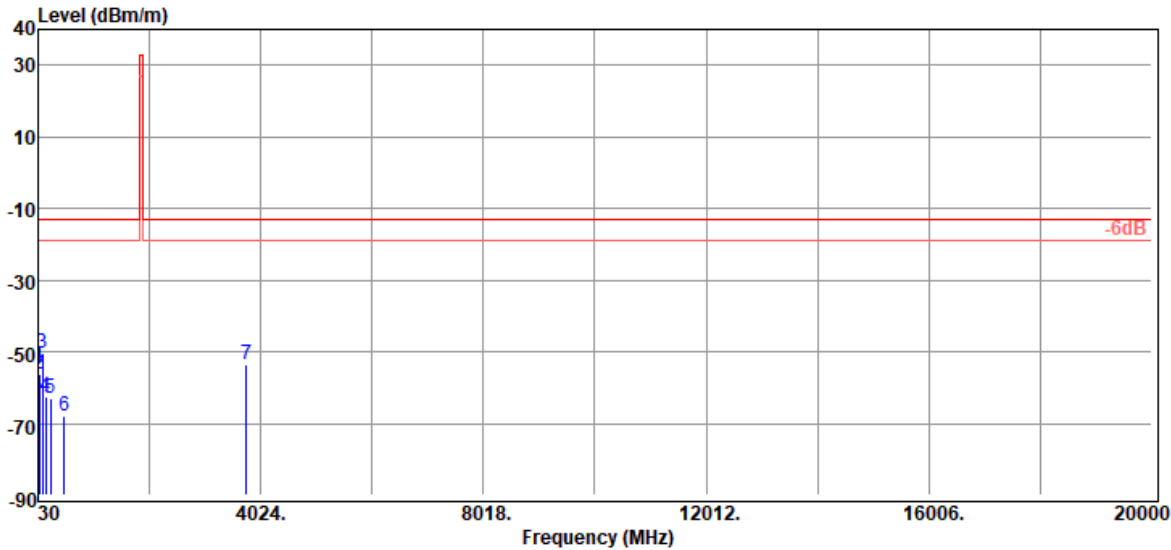
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Report Number :E2/2019/A0029
Operation Mode :LTE B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1880 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-54.35	-34.27	-19.25	-0.83	-13.00	-41.35
58.13	-56.18	-39.47	-15.74	-0.97	-13.00	-43.18
116.33	-50.42	-41.84	-7.13	-1.45	-13.00	-37.42
165.80	-62.62	-54.36	-6.55	-1.71	-13.00	-49.62
252.13	-62.89	-59.10	-1.55	-2.24	-13.00	-49.89
492.69	-67.80	-63.26	-1.05	-3.49	-13.00	-54.80
3760.00	-53.62	-54.96	12.42	-11.08	-13.00	-40.62

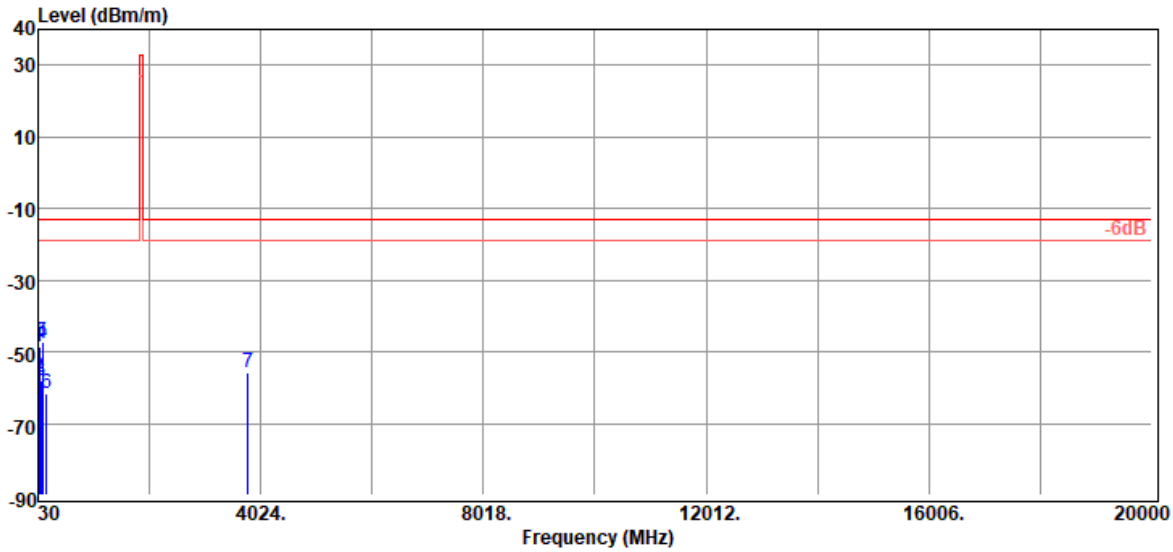
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Report Number :E2/2019/A0029
Operation Mode :LTE B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1900 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-48.47	-29.54	-18.07	-0.86	-13.00	-35.47
55.22	-57.34	-39.93	-16.48	-0.93	-13.00	-44.34
74.62	-57.86	-46.63	-10.16	-1.07	-13.00	-44.86
104.69	-47.72	-39.55	-6.78	-1.39	-13.00	-34.72
116.33	-47.22	-38.64	-7.13	-1.45	-13.00	-34.22
184.23	-61.83	-56.33	-3.71	-1.79	-13.00	-48.83
3800.00	-55.98	-57.56	12.50	-10.92	-13.00	-42.98

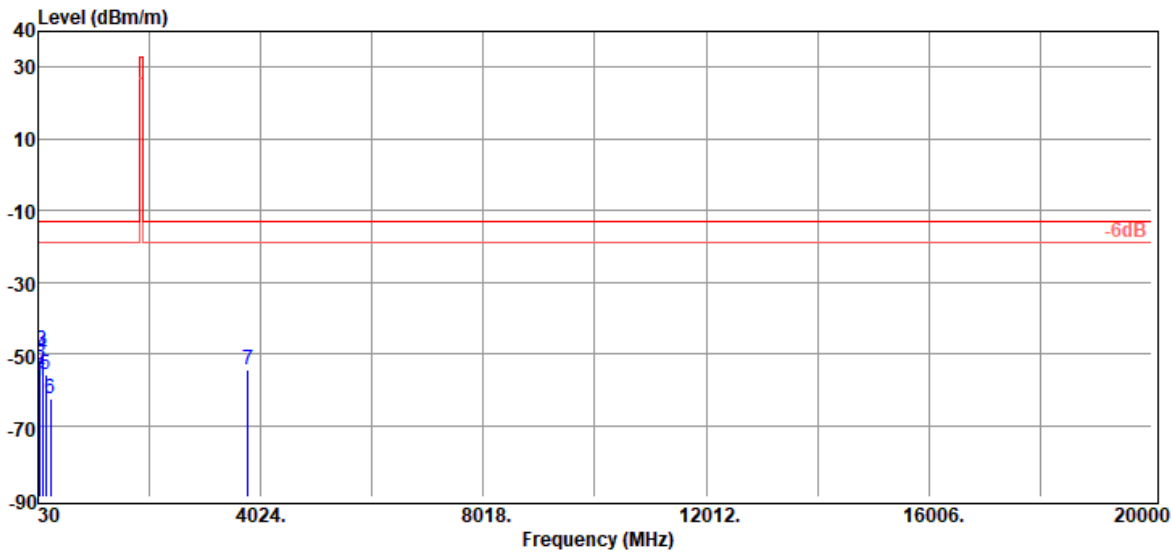
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Report Number :E2/2019/A0029
Operation Mode :LTE B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1900 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-57.71	-37.50	-19.43	-0.78	-13.00	-44.71
65.89	-54.34	-40.04	-13.30	-1.00	-13.00	-41.34
102.75	-48.87	-41.03	-6.48	-1.36	-13.00	-35.87
115.36	-50.23	-41.64	-7.14	-1.45	-13.00	-37.23
163.86	-55.62	-47.26	-6.66	-1.70	-13.00	-42.62
252.13	-62.72	-58.93	-1.55	-2.24	-13.00	-49.72
3800.00	-54.53	-56.11	12.50	-10.92	-13.00	-41.53

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Radiated Spurious Emission Measurement Result: LTE Band 4 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-20

Operation Mode :LTE B4

Temp./Humi. :23.5/57

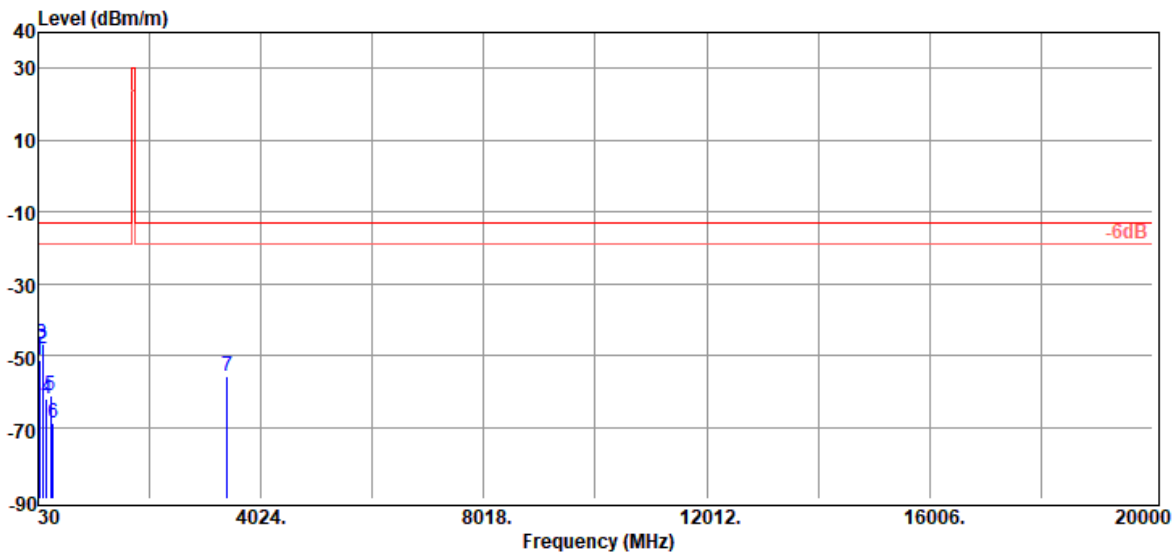
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :1712.5 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
51.34	-51.50	-33.29	-17.33	-0.88	-13.00	-38.50
104.69	-48.33	-40.16	-6.78	-1.39	-13.00	-35.33
116.33	-46.84	-38.26	-7.13	-1.45	-13.00	-33.84
183.26	-61.91	-56.28	-3.85	-1.78	-13.00	-48.91
249.22	-61.40	-57.56	-1.61	-2.23	-13.00	-48.40
304.51	-68.76	-64.69	-1.45	-2.62	-13.00	-55.76
3425.00	-55.64	-57.00	12.65	-11.29	-13.00	-42.64

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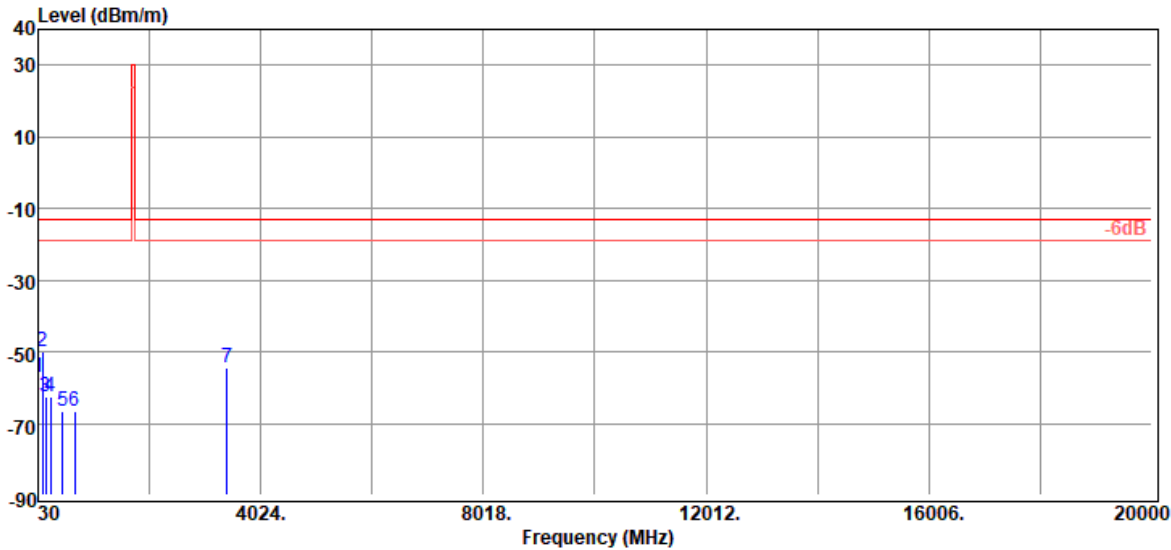
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Report Number :E2/2019/A0029
Operation Mode :LTE B4
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :1712.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-57.22	-37.34	-19.02	-0.86	-13.00	-44.22
115.36	-50.16	-41.57	-7.14	-1.45	-13.00	-37.16
160.95	-62.74	-54.15	-6.90	-1.69	-13.00	-49.74
251.16	-62.53	-58.74	-1.56	-2.23	-13.00	-49.53
466.50	-66.43	-61.93	-1.29	-3.21	-13.00	-53.43
687.66	-66.78	-61.18	-1.39	-4.21	-13.00	-53.78
3425.00	-54.58	-55.94	12.65	-11.29	-13.00	-41.58

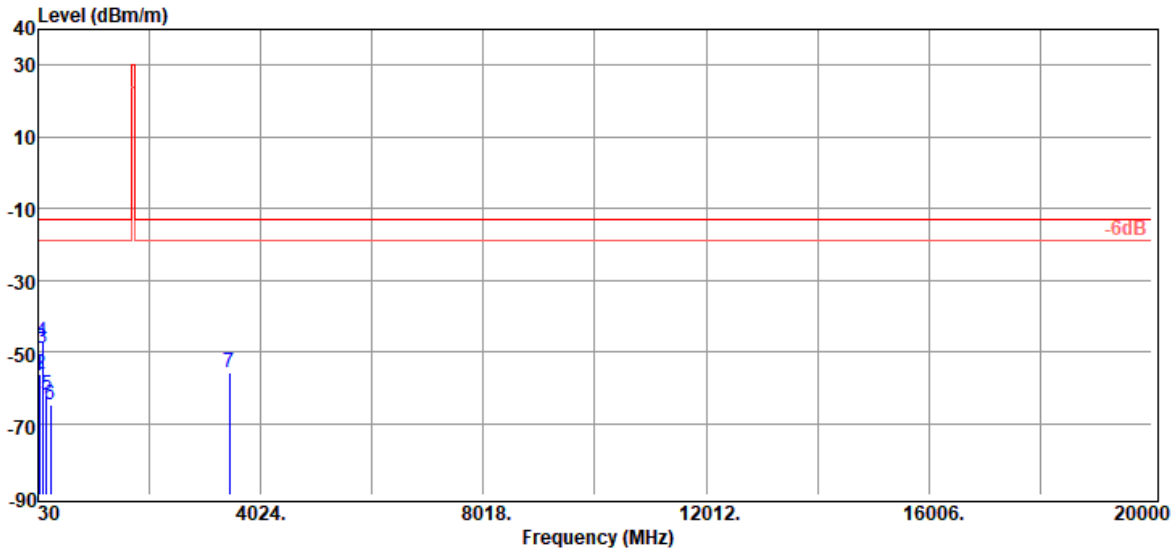
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Report Number :E2/2019/A0029
Operation Mode :LTE B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1732.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-56.69	-36.70	-19.14	-0.85	-13.00	-43.69
59.10	-56.38	-39.89	-15.50	-0.99	-13.00	-43.38
104.69	-49.17	-41.00	-6.78	-1.39	-13.00	-36.17
116.33	-47.27	-38.69	-7.13	-1.45	-13.00	-34.27
183.26	-61.97	-56.34	-3.85	-1.78	-13.00	-48.97
252.13	-64.97	-61.18	-1.55	-2.24	-13.00	-51.97
3465.00	-55.80	-57.28	12.51	-11.03	-13.00	-42.80

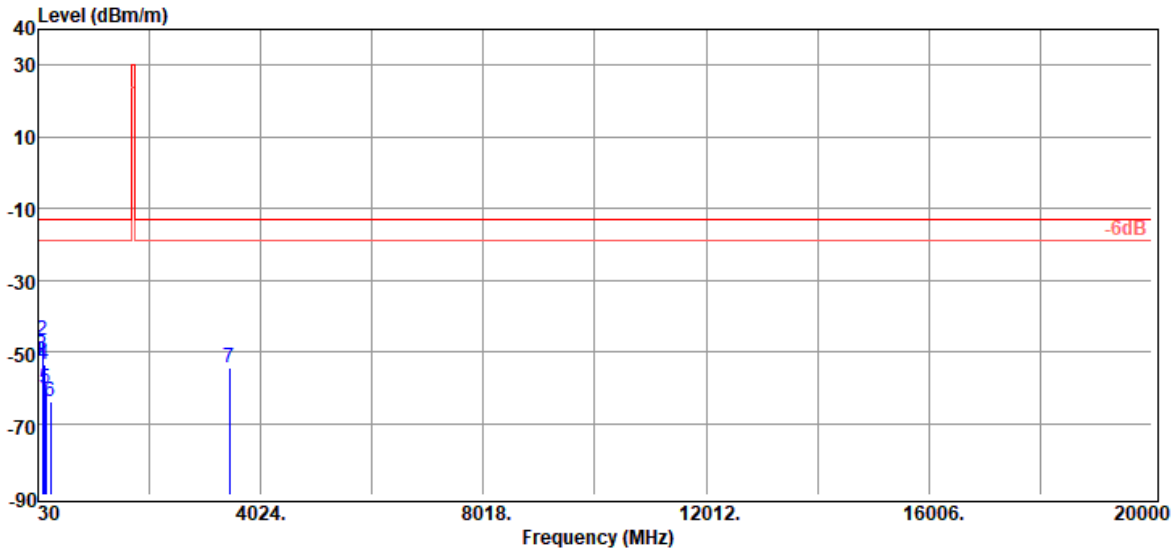
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Report Number :E2/2019/A0029
Operation Mode :LTE B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1732.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-52.79	-32.29	-19.77	-0.73	-13.00	-39.79
104.69	-46.68	-38.51	-6.78	-1.39	-13.00	-33.68
116.33	-50.93	-42.35	-7.13	-1.45	-13.00	-37.93
133.79	-53.44	-44.39	-7.39	-1.66	-13.00	-40.44
164.83	-60.33	-52.02	-6.60	-1.71	-13.00	-47.33
250.19	-63.69	-59.88	-1.58	-2.23	-13.00	-50.69
3465.00	-54.47	-55.95	12.51	-11.03	-13.00	-41.47

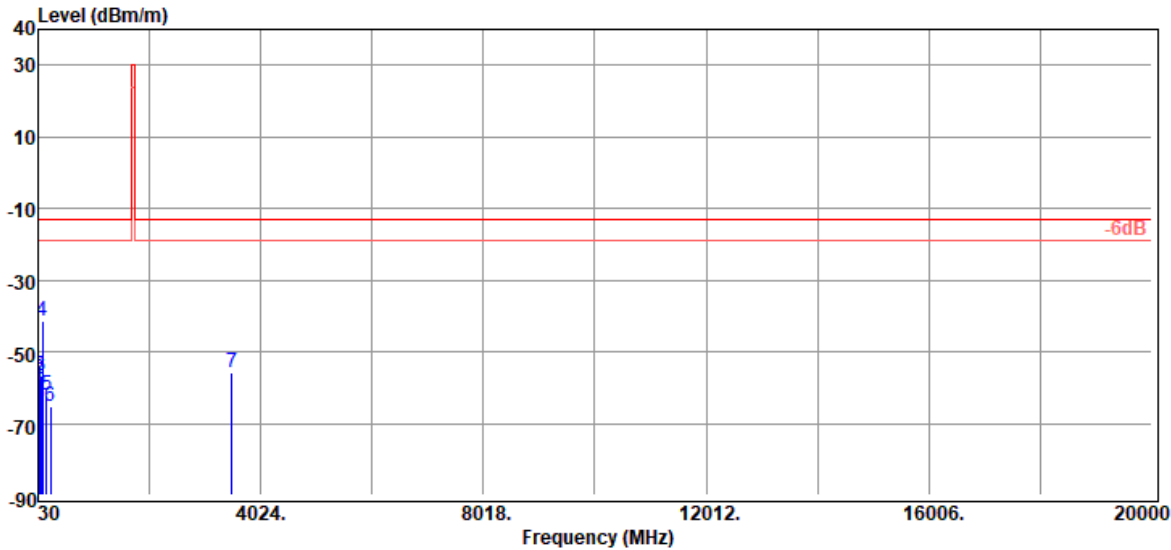
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Report Number :E2/2019/A0029
Operation Mode :LTE B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1752.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-59.82	-41.45	-17.50	-0.87	-13.00	-46.82
56.19	-57.72	-40.52	-16.25	-0.95	-13.00	-44.72
81.41	-56.66	-47.56	-7.94	-1.16	-13.00	-43.66
111.48	-41.45	-32.91	-7.09	-1.45	-13.00	-28.45
182.29	-61.97	-56.20	-4.00	-1.77	-13.00	-48.97
251.16	-65.36	-61.57	-1.56	-2.23	-13.00	-52.36
3505.00	-55.97	-57.44	12.30	-10.83	-13.00	-42.97

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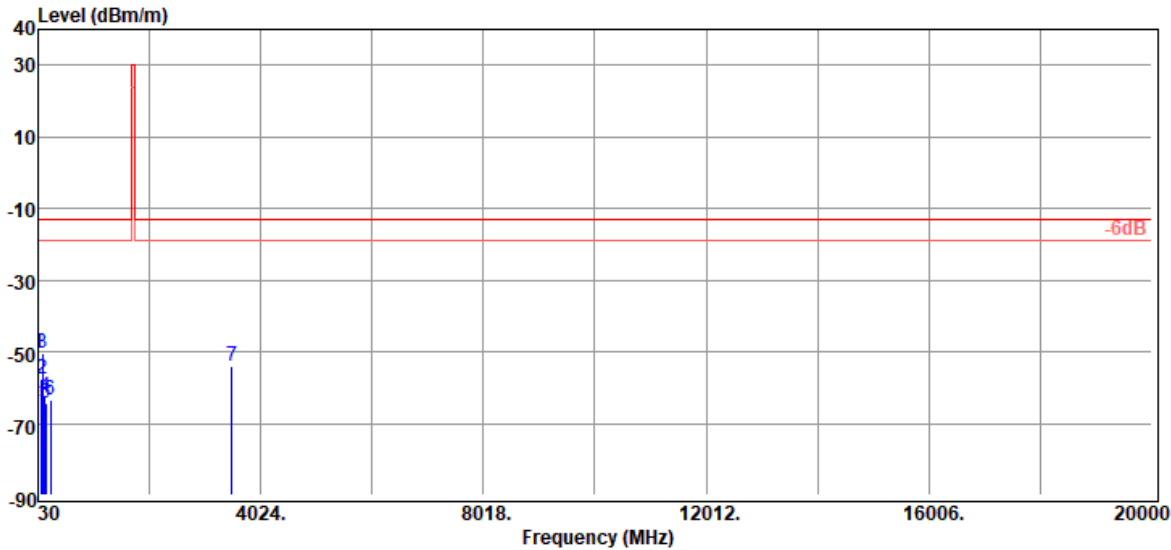
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Report Number :E2/2019/A0029
Operation Mode :LTE B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1752.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-50.39	-30.18	-19.43	-0.78	-13.00	-37.39
93.05	-57.39	-50.41	-5.77	-1.21	-13.00	-44.39
116.33	-50.26	-41.68	-7.13	-1.45	-13.00	-37.26
148.34	-62.68	-53.49	-7.51	-1.68	-13.00	-49.68
163.86	-64.46	-56.10	-6.66	-1.70	-13.00	-51.46
251.16	-63.43	-59.64	-1.56	-2.23	-13.00	-50.43
3505.00	-54.23	-55.70	12.30	-10.83	-13.00	-41.23

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Radiated Spurious Emission Measurement Result: LTE Band 5 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-21

Operation Mode :LTE B5

Temp./Humi. :23.5/57

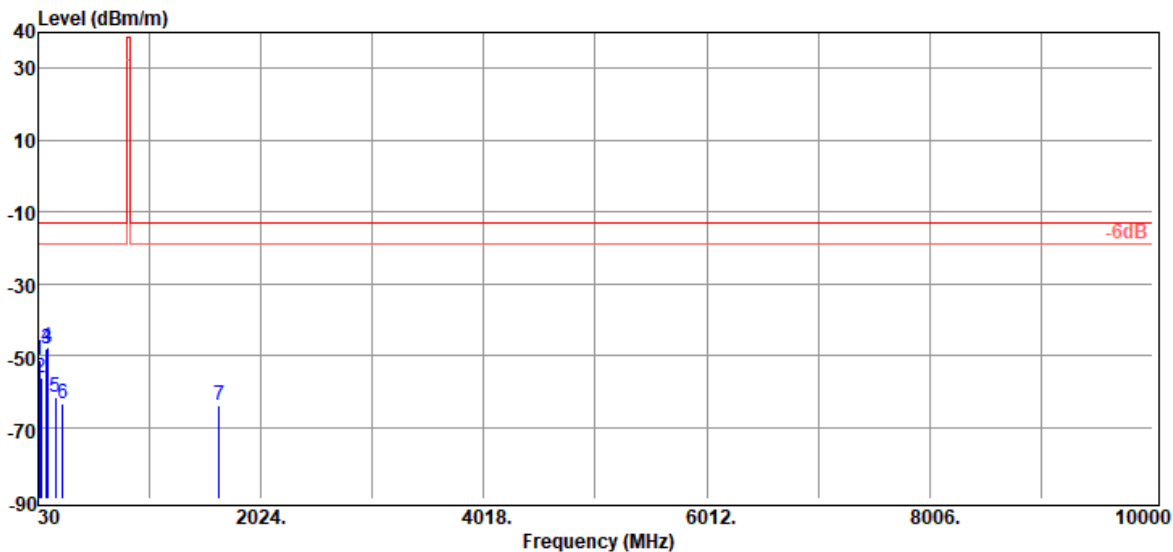
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :826.5 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
38.73	-51.10	-31.02	-19.25	-0.83	-13.00	-38.10
55.22	-56.39	-38.98	-16.48	-0.93	-13.00	-43.39
104.69	-48.09	-39.92	-6.78	-1.39	-13.00	-35.09
116.33	-47.94	-39.36	-7.13	-1.45	-13.00	-34.94
184.23	-61.47	-55.97	-3.71	-1.79	-13.00	-48.47
251.16	-63.44	-59.65	-1.56	-2.23	-13.00	-50.44
1653.00	-64.00	-65.78	9.33	-7.55	-13.00	-51.00

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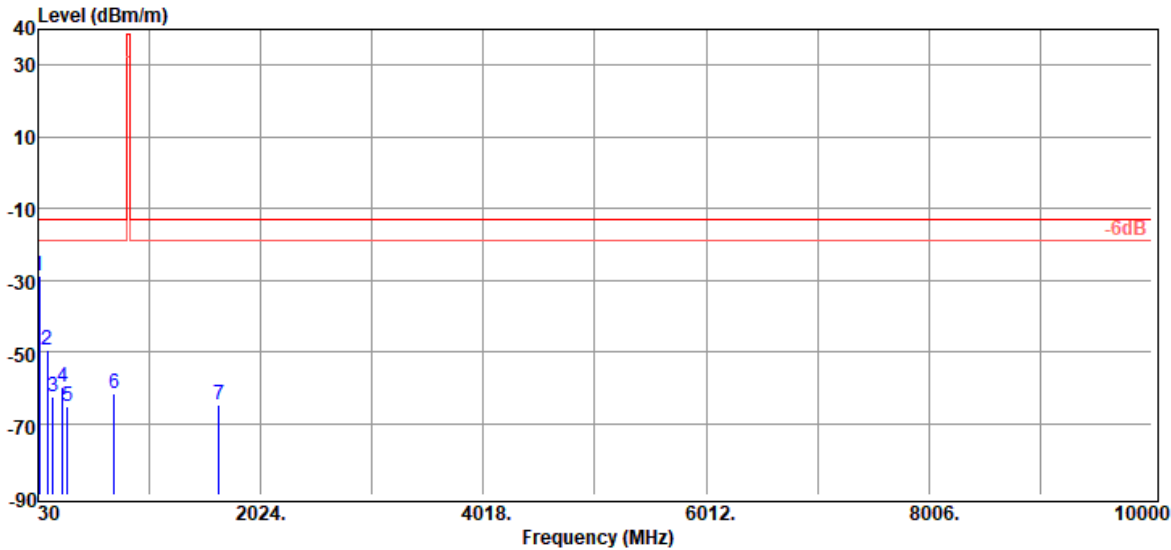
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Report Number :E2/2019/A0029
Operation Mode :LTE B5
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :826.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-29.05	-8.90	-19.35	-0.80	-13.00	-16.05
116.33	-49.54	-40.96	-7.13	-1.45	-13.00	-36.54
165.80	-62.39	-54.13	-6.55	-1.71	-13.00	-49.39
251.16	-59.77	-55.98	-1.56	-2.23	-13.00	-46.77
291.90	-65.31	-61.17	-1.63	-2.51	-13.00	-52.31
713.85	-61.47	-56.23	-1.34	-3.90	-13.00	-48.47
1653.00	-64.96	-66.74	9.33	-7.55	-13.00	-51.96

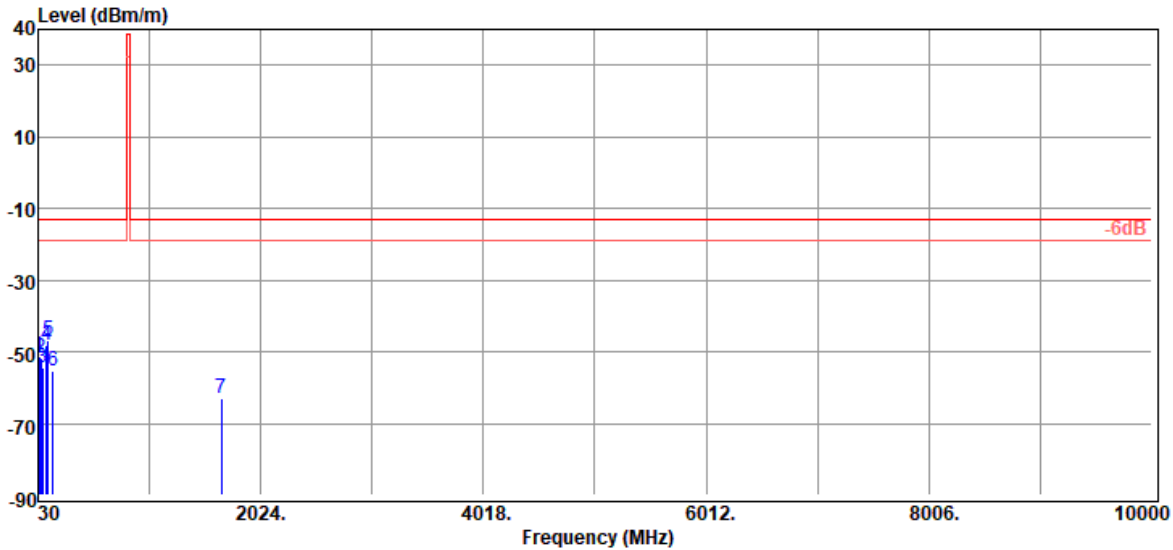
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Report Number :E2/2019/A0029
Operation Mode :LTE B5
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :836.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-51.51	-31.84	-18.81	-0.86	-13.00	-38.51
52.31	-51.54	-33.51	-17.14	-0.89	-13.00	-38.54
70.74	-54.33	-41.60	-11.72	-1.01	-13.00	-41.33
104.69	-48.12	-39.95	-6.78	-1.39	-13.00	-35.12
117.30	-46.79	-38.25	-7.09	-1.45	-13.00	-33.79
160.95	-55.27	-46.68	-6.90	-1.69	-13.00	-42.27
1673.00	-63.17	-65.02	9.53	-7.68	-13.00	-50.17

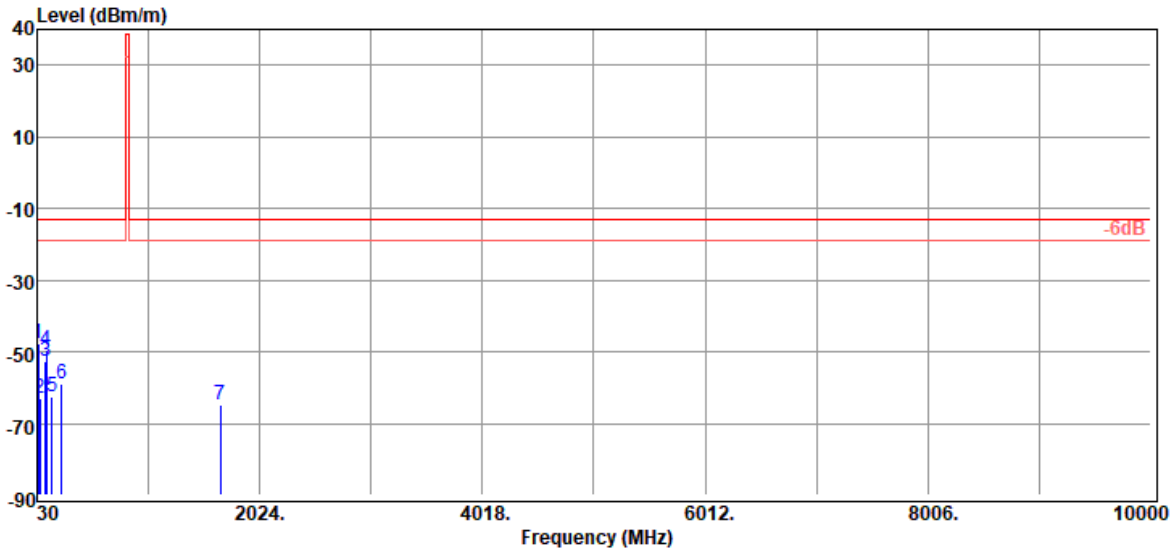
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Report Number :E2/2019/A0029
Operation Mode :LTE B5
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :836.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-47.56	-27.57	-19.14	-0.85	-13.00	-34.56
56.19	-63.06	-45.86	-16.25	-0.95	-13.00	-50.06
103.72	-52.71	-44.70	-6.64	-1.37	-13.00	-39.71
116.33	-49.67	-41.09	-7.13	-1.45	-13.00	-36.67
165.80	-62.39	-54.13	-6.55	-1.71	-13.00	-49.39
251.16	-59.12	-55.33	-1.56	-2.23	-13.00	-46.12
1673.00	-64.59	-66.44	9.53	-7.68	-13.00	-51.59

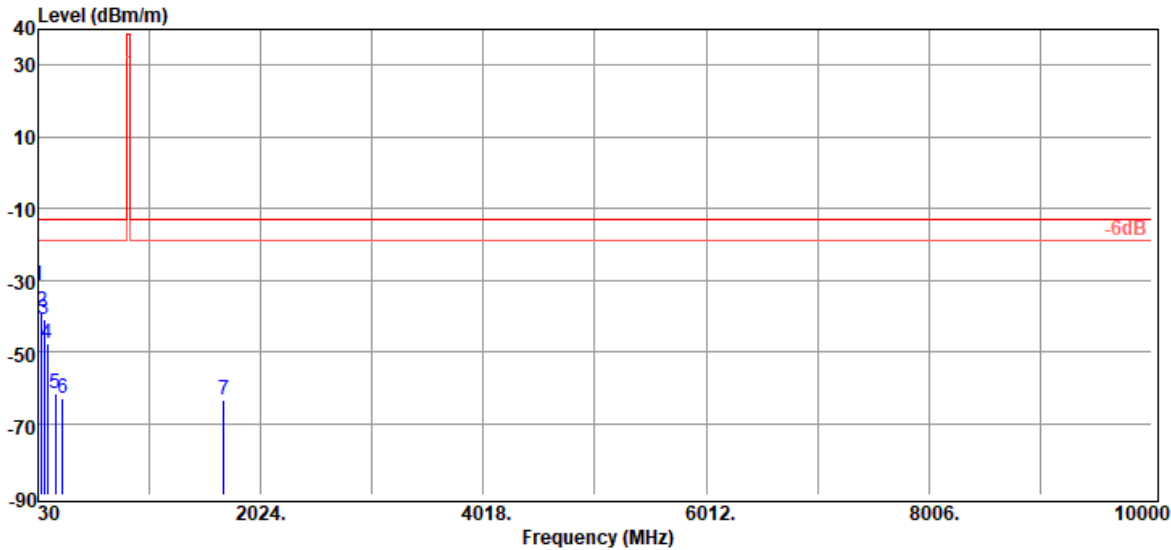
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Report Number :E2/2019/A0029
Operation Mode :LTE B5
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :846.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-31.73	-11.52	-19.43	-0.78	-13.00	-18.73
62.01	-38.83	-23.24	-14.59	-1.00	-13.00	-25.83
81.41	-40.78	-31.68	-7.94	-1.16	-13.00	-27.78
116.33	-47.85	-39.27	-7.13	-1.45	-13.00	-34.85
184.23	-61.62	-56.12	-3.71	-1.79	-13.00	-48.62
250.19	-63.01	-59.20	-1.58	-2.23	-13.00	-50.01
1693.00	-63.66	-65.58	9.73	-7.81	-13.00	-50.66

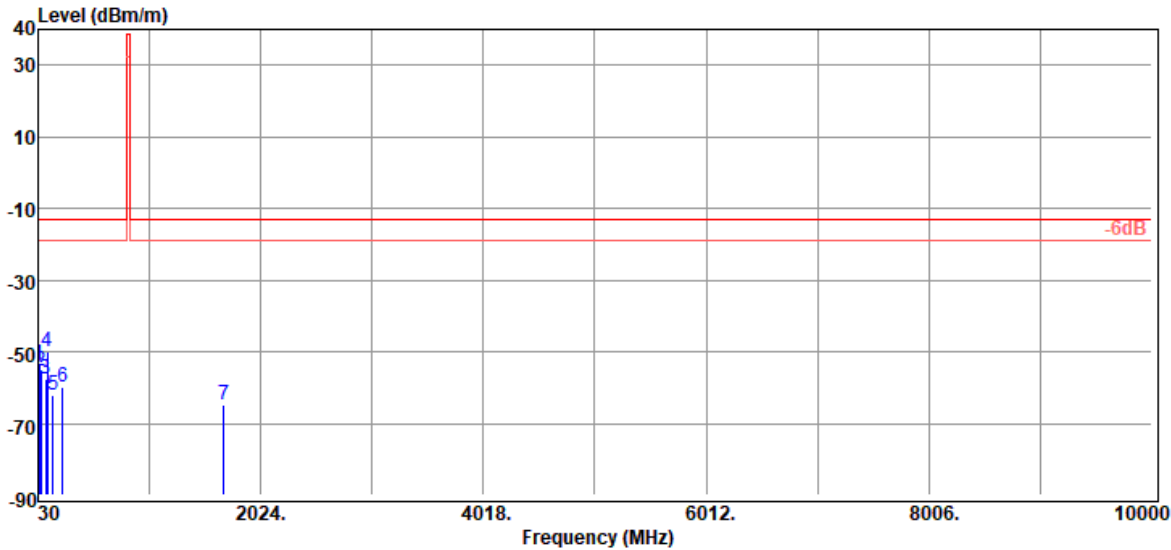
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Report Number :E2/2019/A0029
Operation Mode :LTE B5
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :846.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-53.77	-33.89	-19.02	-0.86	-13.00	-40.77
55.22	-55.54	-38.13	-16.48	-0.93	-13.00	-42.54
94.99	-57.79	-50.86	-5.69	-1.24	-13.00	-44.79
116.33	-50.15	-41.57	-7.13	-1.45	-13.00	-37.15
166.77	-62.20	-53.98	-6.50	-1.72	-13.00	-49.20
253.10	-59.70	-55.92	-1.54	-2.24	-13.00	-46.70
1693.00	-64.63	-66.55	9.73	-7.81	-13.00	-51.63

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Radiated Spurious Emission Measurement Result: LTE Band 7 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-20

Operation Mode :LTE B7

Temp./Humi. :23.5/57

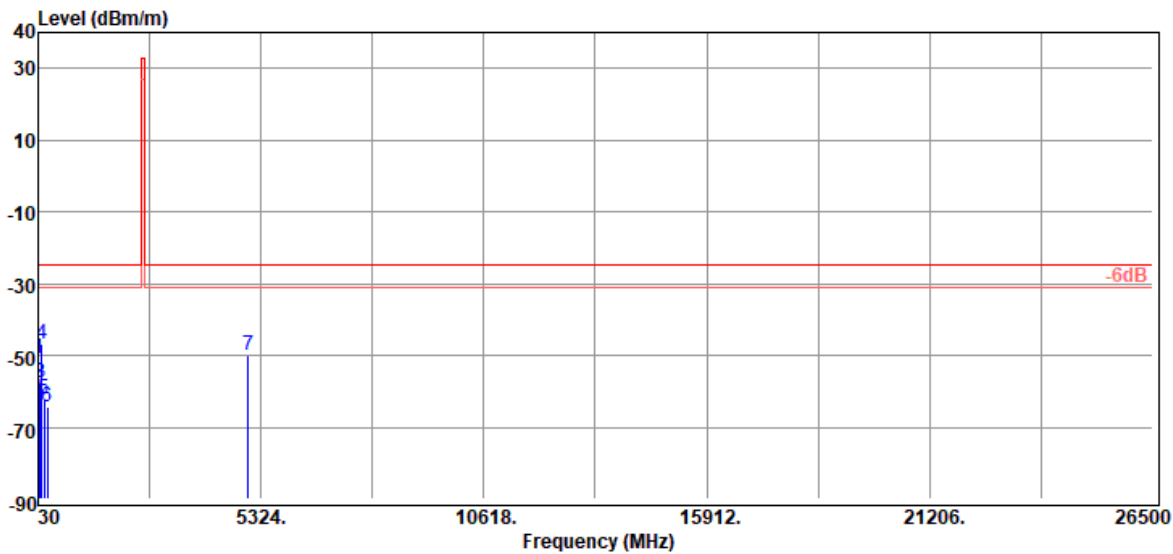
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :2510 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
41.64	-50.79	-31.01	-18.92	-0.86	-25.00	-25.79
50.37	-57.45	-39.08	-17.50	-0.87	-25.00	-32.45
68.80	-57.49	-44.04	-12.45	-1.00	-25.00	-32.49
116.33	-47.00	-38.42	-7.13	-1.45	-25.00	-22.00
182.29	-61.93	-56.16	-4.00	-1.77	-25.00	-36.93
248.25	-64.41	-60.54	-1.64	-2.23	-25.00	-39.41
5020.00	-49.79	-50.79	12.46	-11.46	-25.00	-24.79

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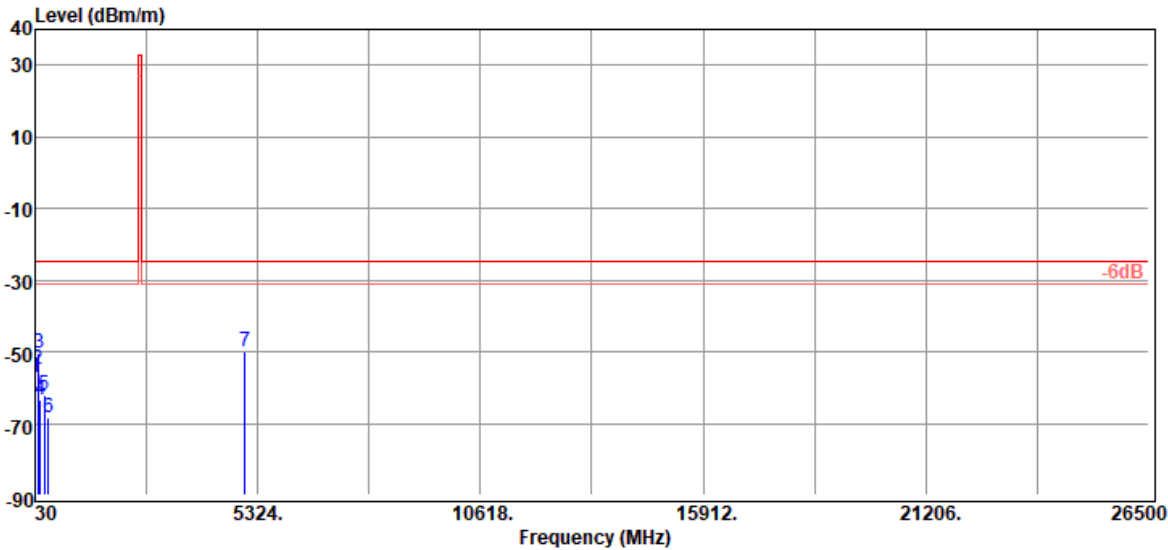
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Report Number :E2/2019/A0029
Operation Mode :LTE B7
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :2510 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-57.34	-37.35	-19.14	-0.85	-25.00	-32.34
102.75	-54.74	-46.90	-6.48	-1.36	-25.00	-29.74
115.36	-50.27	-41.68	-7.14	-1.45	-25.00	-25.27
160.95	-63.57	-54.98	-6.90	-1.69	-25.00	-38.57
250.19	-62.26	-58.45	-1.58	-2.23	-25.00	-37.26
338.46	-68.35	-64.15	-1.55	-2.65	-25.00	-43.35
5020.00	-50.17	-51.17	12.46	-11.46	-25.00	-25.17

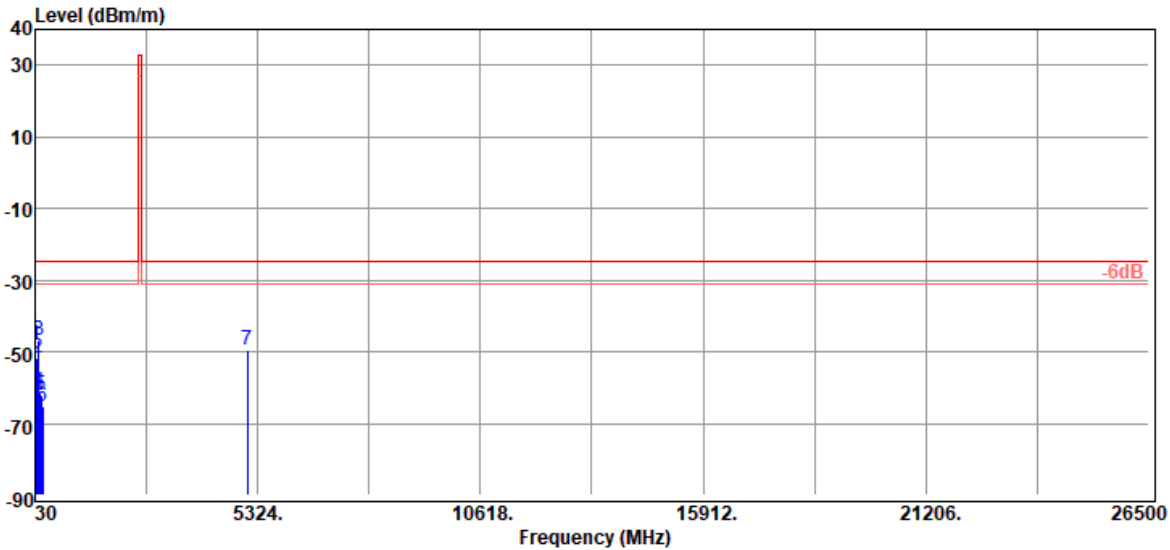
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Report Number :E2/2019/A0029
Operation Mode :LTE B7
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :2535 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-47.98	-29.23	-17.89	-0.86	-25.00	-22.98
69.77	-51.68	-38.57	-12.11	-1.00	-25.00	-26.68
116.33	-46.80	-38.22	-7.13	-1.45	-25.00	-21.80
143.49	-61.07	-51.75	-7.65	-1.67	-25.00	-36.07
182.29	-62.26	-56.49	-4.00	-1.77	-25.00	-37.26
204.60	-65.16	-61.16	-1.92	-2.08	-25.00	-40.16
5070.00	-49.50	-50.30	12.40	-11.60	-25.00	-24.50

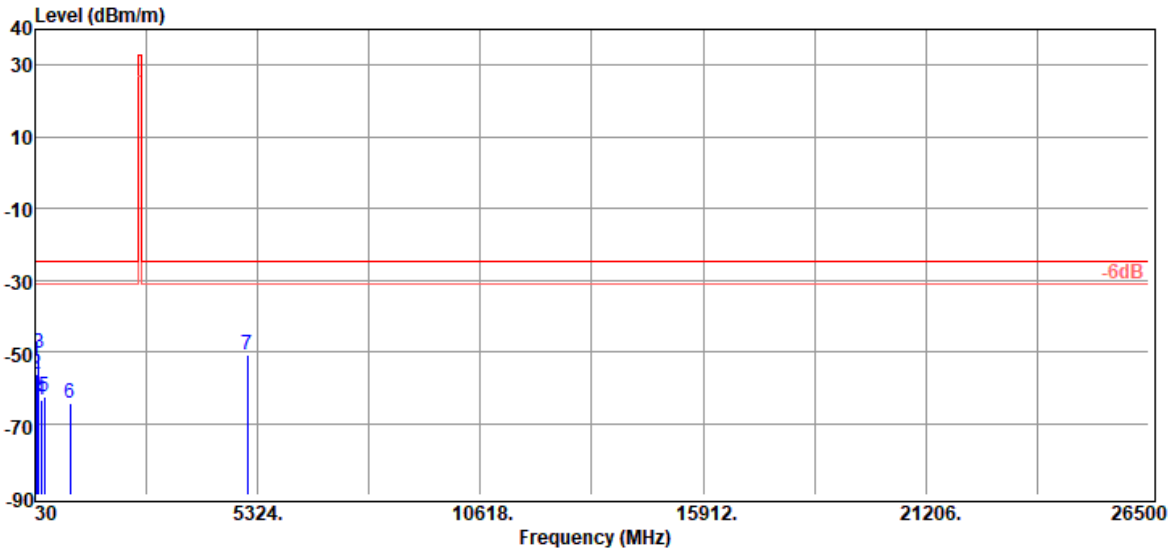
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Report Number :E2/2019/A0029
Operation Mode :LTE B7
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :2535 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-52.55	-32.77	-18.92	-0.86	-25.00	-27.55
62.98	-56.07	-40.81	-14.26	-1.00	-25.00	-31.07
115.36	-50.35	-41.76	-7.14	-1.45	-25.00	-25.35
167.74	-63.39	-55.21	-6.45	-1.73	-25.00	-38.39
248.25	-62.59	-58.72	-1.64	-2.23	-25.00	-37.59
862.26	-64.54	-58.61	-1.33	-4.60	-25.00	-39.54
5070.00	-50.67	-51.47	12.40	-11.60	-25.00	-25.67

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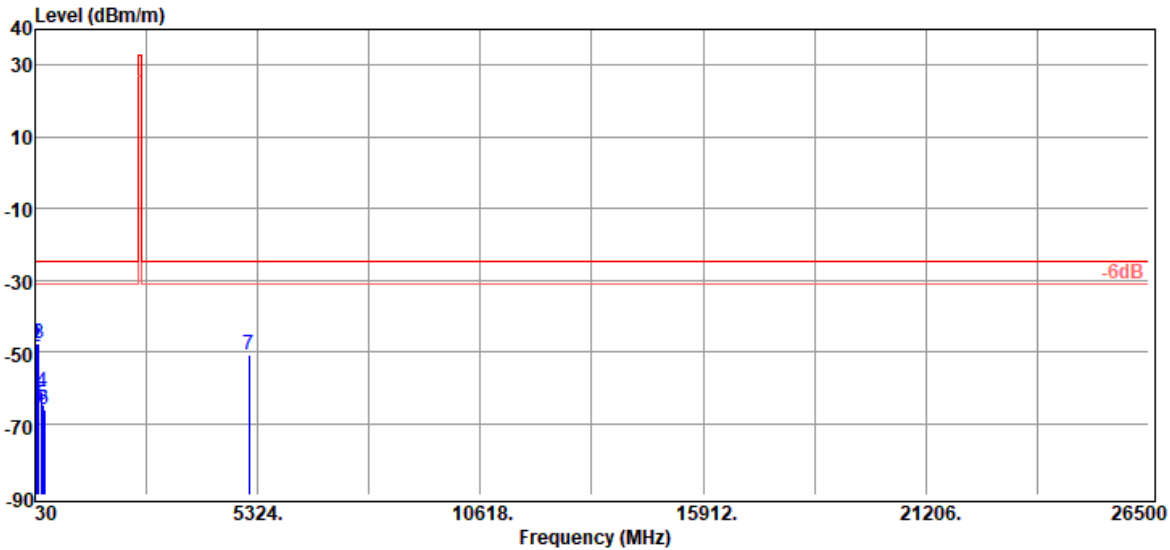
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Report Number :E2/2019/A0029
Operation Mode :LTE B7
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :2560 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-47.84	-30.02	-16.91	-0.91	-25.00	-22.84
59.10	-48.70	-32.21	-15.50	-0.99	-25.00	-23.70
116.33	-47.88	-39.30	-7.13	-1.45	-25.00	-22.88
183.26	-61.41	-55.78	-3.85	-1.78	-25.00	-36.41
204.60	-64.87	-60.87	-1.92	-2.08	-25.00	-39.87
250.19	-66.16	-62.35	-1.58	-2.23	-25.00	-41.16
5120.00	-51.07	-51.77	12.44	-11.74	-25.00	-26.07

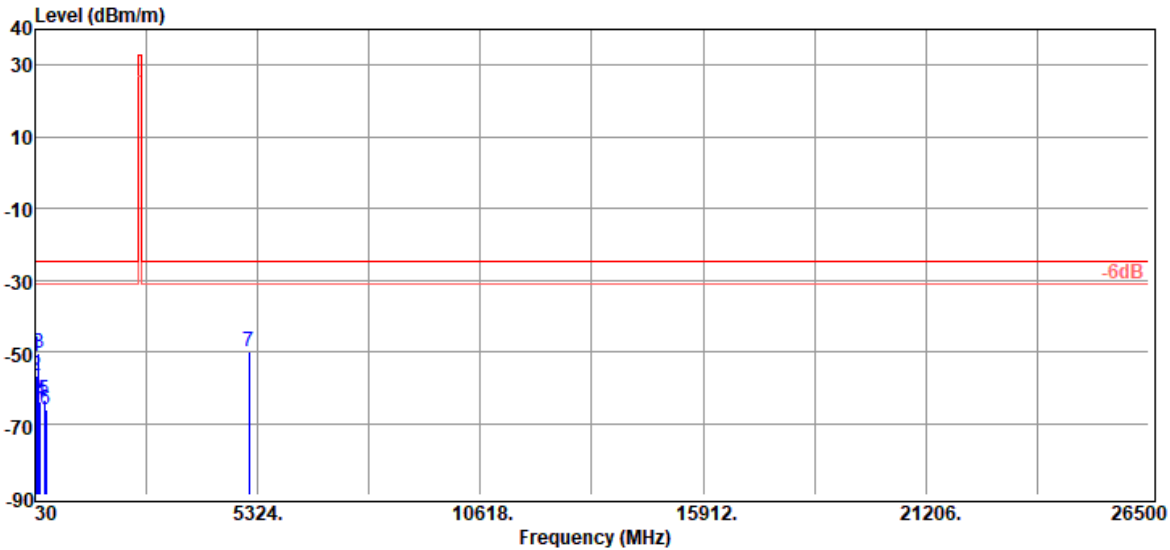
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Report Number :E2/2019/A0029
Operation Mode :LTE B7
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :2560 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-51.44	-30.67	-20.09	-0.68	-25.00	-26.44
64.92	-56.55	-41.84	-13.71	-1.00	-25.00	-31.55
115.36	-50.37	-41.78	-7.14	-1.45	-25.00	-25.37
161.92	-63.77	-55.23	-6.85	-1.69	-25.00	-38.77
250.19	-63.39	-59.58	-1.58	-2.23	-25.00	-38.39
282.20	-66.18	-62.08	-1.67	-2.43	-25.00	-41.18
5120.00	-49.96	-50.66	12.44	-11.74	-25.00	-24.96

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Radiated Spurious Emission Measurement Result: LTE Band 12 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-21

Operation Mode :LTE B12

Temp./Humi. :23.5/57

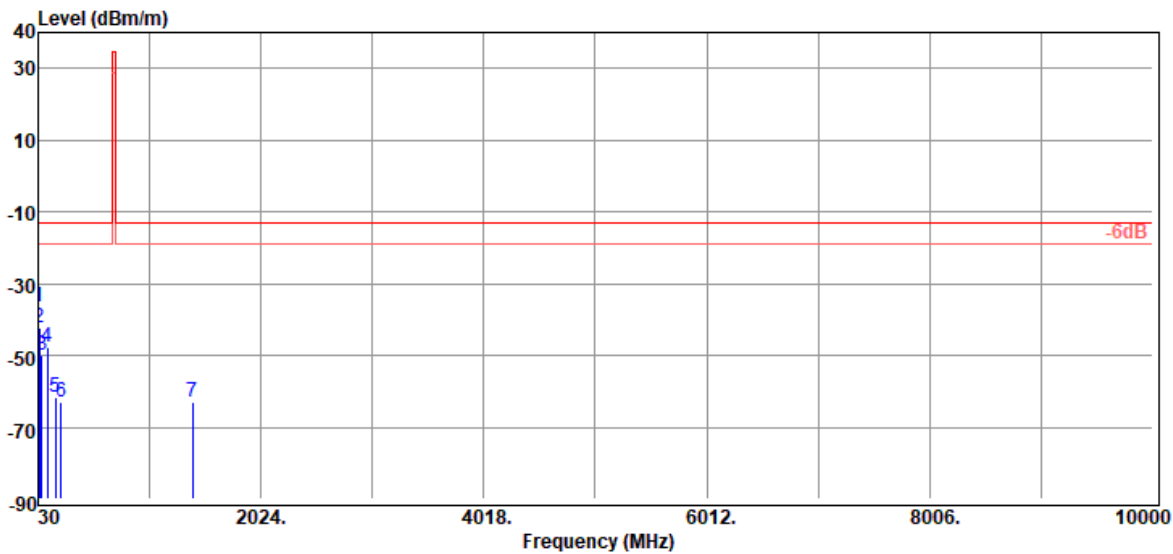
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :704 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.85	-36.55	-16.05	-19.77	-0.73	-13.00	-23.55
41.64	-42.45	-22.67	-18.92	-0.86	-13.00	-29.45
62.98	-50.13	-34.87	-14.26	-1.00	-13.00	-37.13
115.36	-47.88	-39.29	-7.14	-1.45	-13.00	-34.88
183.26	-61.45	-55.82	-3.85	-1.78	-13.00	-48.45
234.67	-62.80	-58.89	-1.70	-2.21	-13.00	-49.80
1408.00	-63.13	-63.66	7.06	-6.53	-13.00	-50.13

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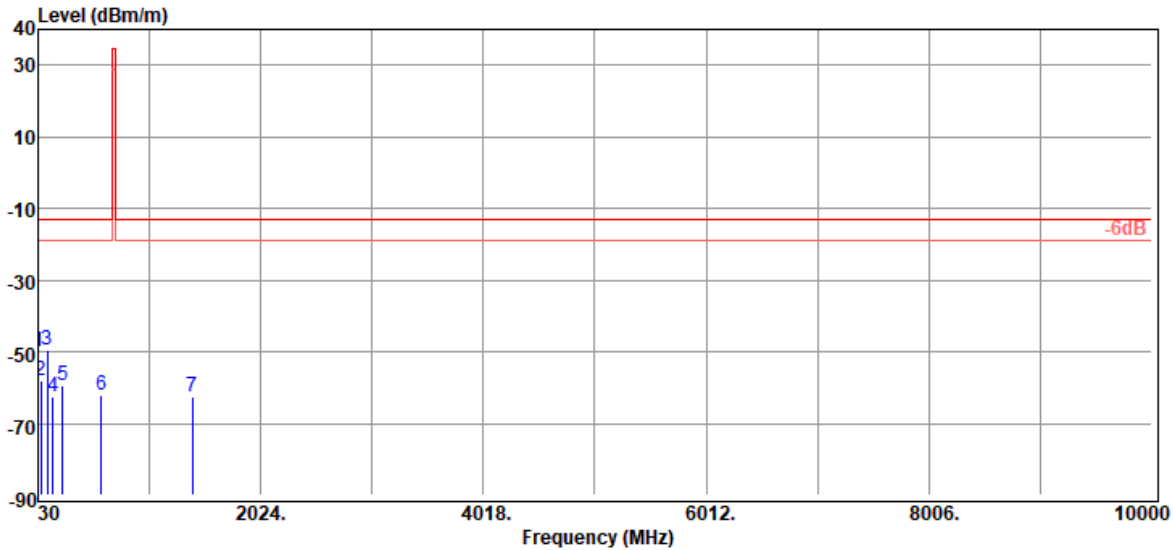
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Report Number :E2/2019/A0029
Operation Mode :LTE B12
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :704 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-49.80	-29.59	-19.43	-0.78	-13.00	-36.80
55.22	-57.91	-40.50	-16.48	-0.93	-13.00	-44.91
116.33	-49.40	-40.82	-7.13	-1.45	-13.00	-36.40
164.83	-62.38	-54.07	-6.60	-1.71	-13.00	-49.38
249.22	-59.29	-55.45	-1.61	-2.23	-13.00	-46.29
593.57	-61.95	-56.61	-1.51	-3.83	-13.00	-48.95
1408.00	-62.78	-63.31	7.06	-6.53	-13.00	-49.78

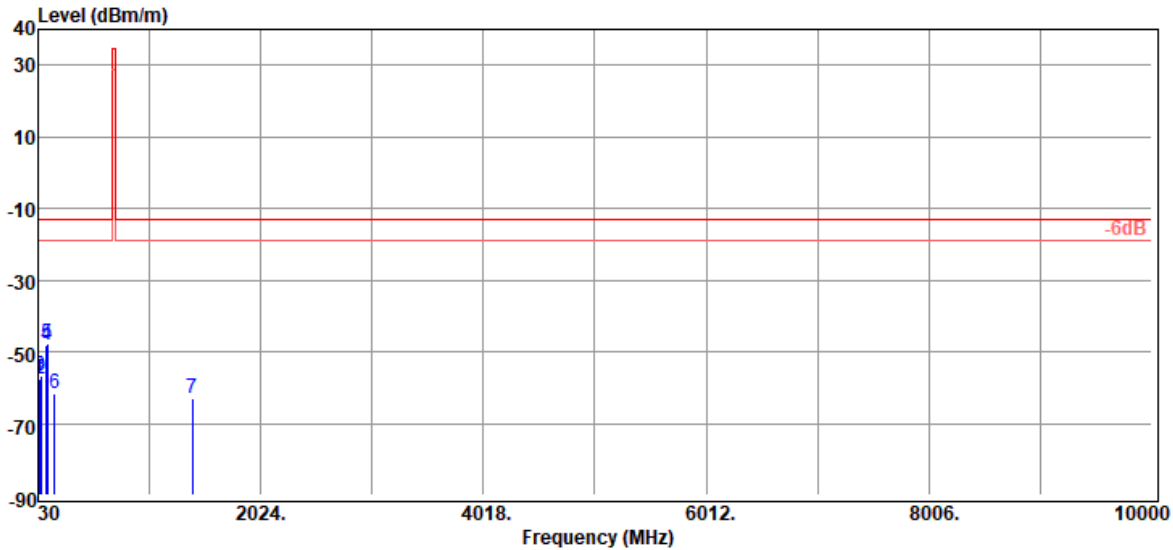
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Report Number :E2/2019/A0029
Operation Mode :LTE B12
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :707.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-57.68	-37.28	-19.64	-0.76	-13.00	-44.68
44.55	-57.71	-38.34	-18.51	-0.86	-13.00	-44.71
55.22	-56.63	-39.22	-16.48	-0.93	-13.00	-43.63
104.69	-48.25	-40.08	-6.78	-1.39	-13.00	-35.25
116.33	-47.88	-39.30	-7.13	-1.45	-13.00	-34.88
181.32	-61.86	-55.96	-4.14	-1.76	-13.00	-48.86
1415.00	-62.82	-63.39	7.12	-6.55	-13.00	-49.82

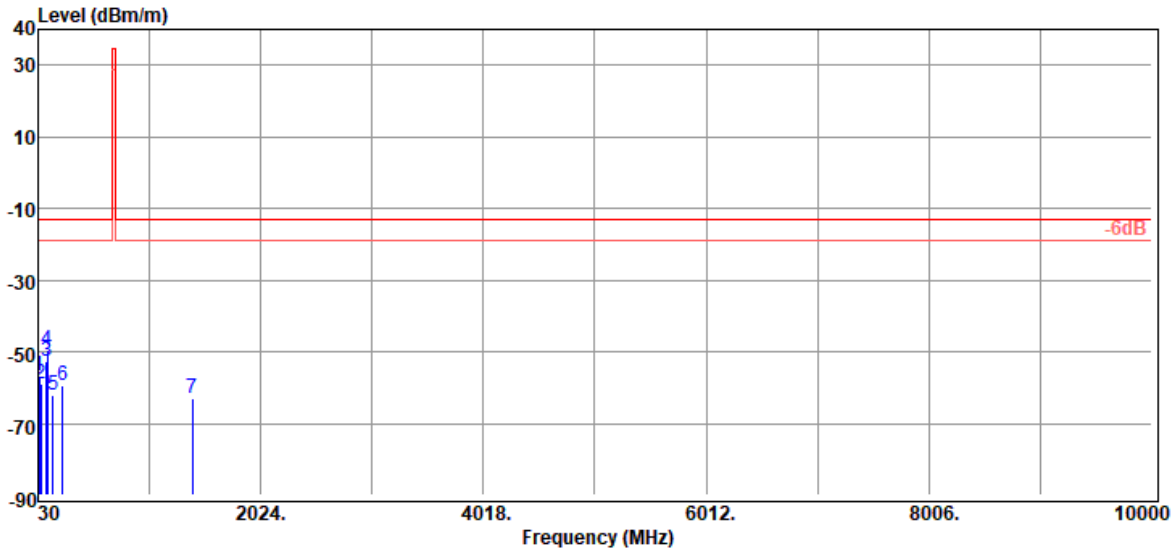
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Report Number :E2/2019/A0029
Operation Mode :LTE B12
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :707.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-56.90	-37.02	-19.02	-0.86	-13.00	-43.90
55.22	-59.18	-41.77	-16.48	-0.93	-13.00	-46.18
104.69	-52.56	-44.39	-6.78	-1.39	-13.00	-39.56
116.33	-49.72	-41.14	-7.13	-1.45	-13.00	-36.72
164.83	-62.25	-53.94	-6.60	-1.71	-13.00	-49.25
250.19	-59.61	-55.80	-1.58	-2.23	-13.00	-46.61
1415.00	-63.02	-63.59	7.12	-6.55	-13.00	-50.02

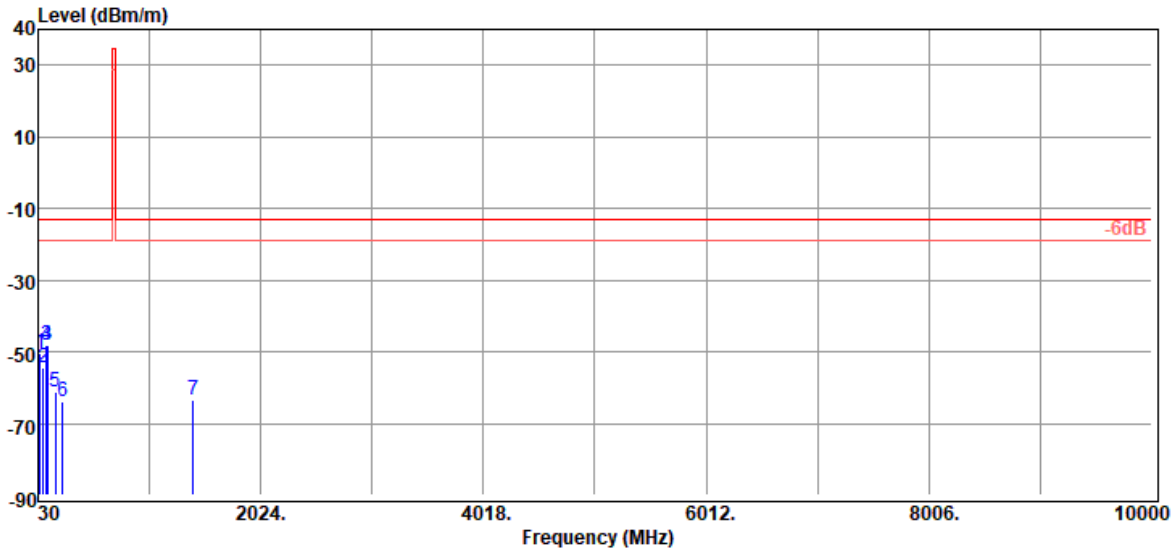
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Report Number :E2/2019/A0029
Operation Mode :LTE B12
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :711 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-50.52	-31.37	-18.29	-0.86	-13.00	-37.52
79.47	-54.38	-44.69	-8.54	-1.15	-13.00	-41.38
104.69	-48.35	-40.18	-6.78	-1.39	-13.00	-35.35
116.33	-48.05	-39.47	-7.13	-1.45	-13.00	-35.05
183.26	-61.01	-55.38	-3.85	-1.78	-13.00	-48.01
252.13	-63.84	-60.05	-1.55	-2.24	-13.00	-50.84
1422.00	-63.31	-63.93	7.18	-6.56	-13.00	-50.31

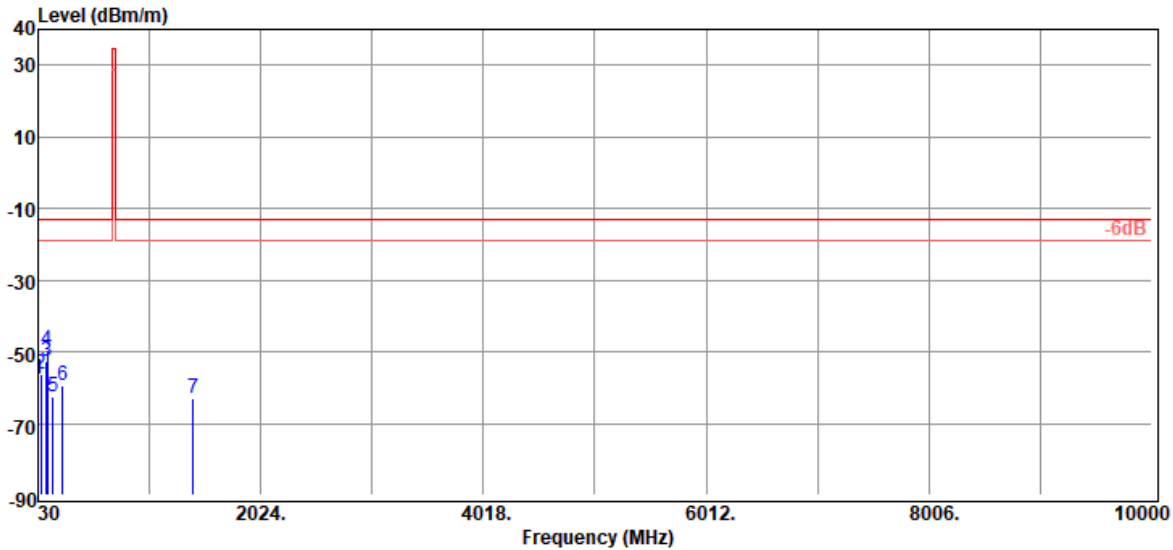
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Report Number :E2/2019/A0029
Operation Mode :LTE B12
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :711 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-57.44	-37.04	-19.64	-0.76	-13.00	-44.44
55.22	-56.23	-38.82	-16.48	-0.93	-13.00	-43.23
103.72	-52.86	-44.85	-6.64	-1.37	-13.00	-39.86
115.36	-49.50	-40.91	-7.14	-1.45	-13.00	-36.50
163.86	-62.48	-54.12	-6.66	-1.70	-13.00	-49.48
250.19	-59.33	-55.52	-1.58	-2.23	-13.00	-46.33
1422.00	-63.20	-63.82	7.18	-6.56	-13.00	-50.20

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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-21

Operation Mode :LTE B13

Temp./Humi. :23.5/57

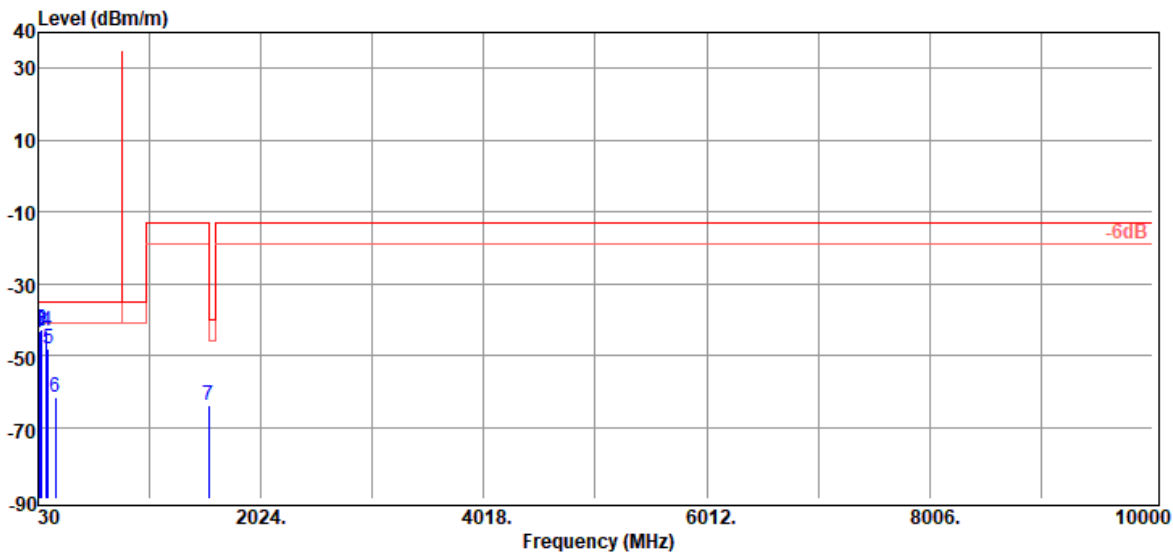
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Frequency :779.5 MHz



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-43.66	-23.51	-19.35	-0.80	-35.00	-8.66
45.52	-43.00	-23.76	-18.38	-0.86	-35.00	-8.00
65.89	-42.64	-28.34	-13.30	-1.00	-35.00	-7.64
104.69	-43.06	-34.89	-6.78	-1.39	-35.00	-8.06
118.27	-47.95	-39.42	-7.08	-1.45	-35.00	-12.95
184.23	-61.59	-56.09	-3.71	-1.79	-35.00	-26.59
1559.00	-63.87	-65.56	8.69	-7.00	-40.00	-23.87

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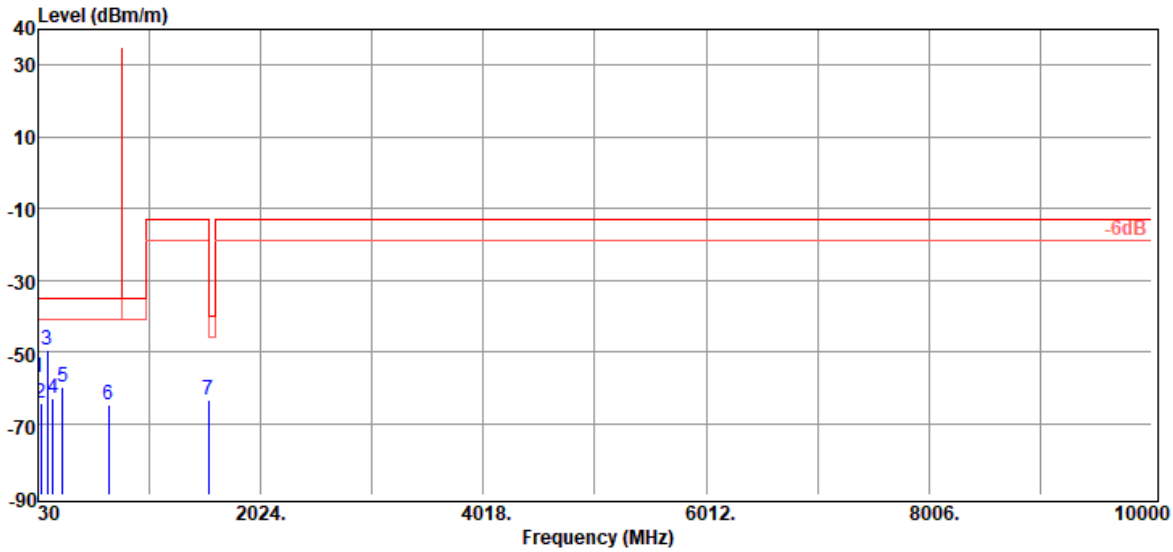
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :779.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-57.12	-36.91	-19.43	-0.78	-35.00	-22.12
56.19	-64.30	-47.10	-16.25	-0.95	-35.00	-29.30
116.33	-49.64	-41.06	-7.13	-1.45	-35.00	-14.64
164.83	-62.98	-54.67	-6.60	-1.71	-35.00	-27.98
249.22	-59.94	-56.10	-1.61	-2.23	-35.00	-24.94
661.47	-64.85	-59.81	-1.23	-3.81	-35.00	-29.85
1559.00	-63.54	-65.23	8.69	-7.00	-40.00	-23.54

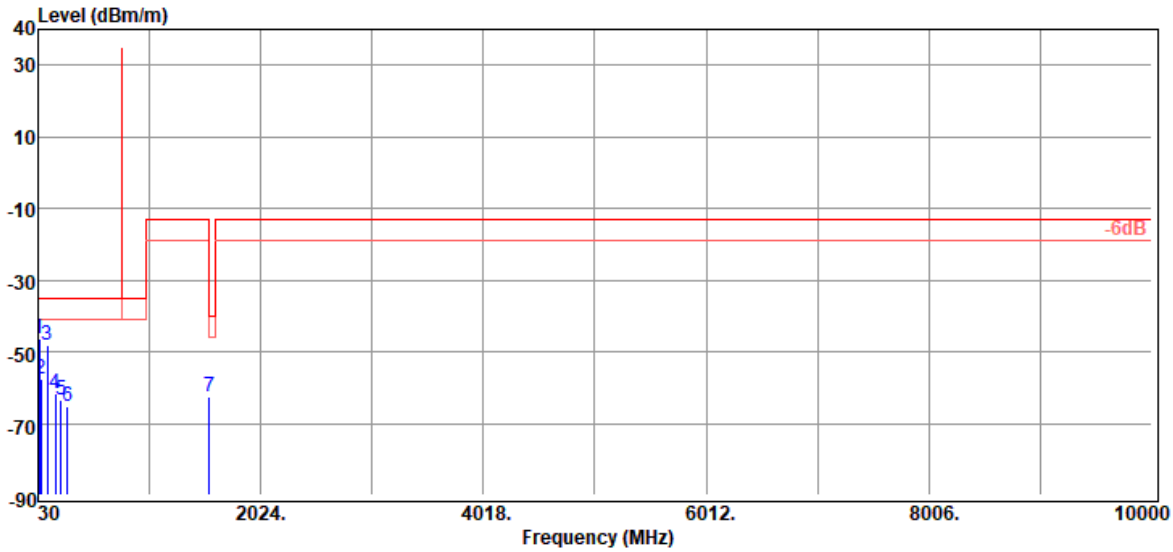
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-46.46	-26.58	-19.02	-0.86	-35.00	-11.46
55.22	-57.64	-40.23	-16.48	-0.93	-35.00	-22.64
116.33	-48.04	-39.46	-7.13	-1.45	-35.00	-13.04
182.29	-61.49	-55.72	-4.00	-1.77	-35.00	-26.49
237.58	-63.26	-59.26	-1.78	-2.22	-35.00	-28.26
289.96	-65.25	-61.05	-1.69	-2.51	-35.00	-30.25
1564.00	-62.67	-64.38	8.74	-7.03	-40.00	-22.67

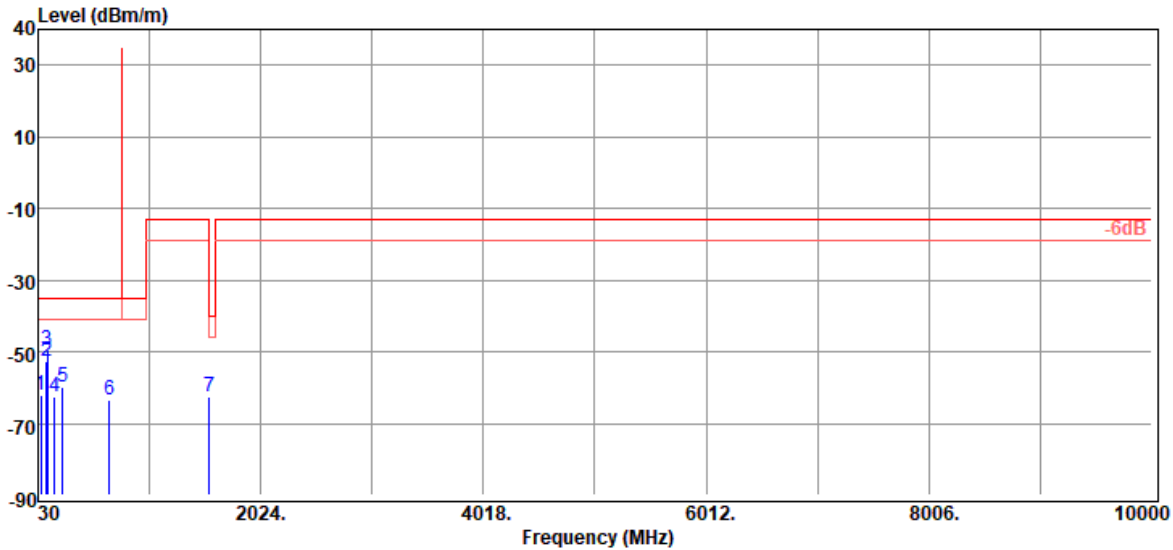
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-62.02	-44.61	-16.48	-0.93	-35.00	-27.02
103.72	-52.78	-44.77	-6.64	-1.37	-35.00	-17.78
116.33	-49.38	-40.80	-7.13	-1.45	-35.00	-14.38
179.38	-62.74	-56.48	-4.52	-1.74	-35.00	-27.74
250.19	-59.75	-55.94	-1.58	-2.23	-35.00	-24.75
665.35	-63.42	-58.36	-1.18	-3.88	-35.00	-28.42
1564.00	-62.75	-64.46	8.74	-7.03	-40.00	-22.75

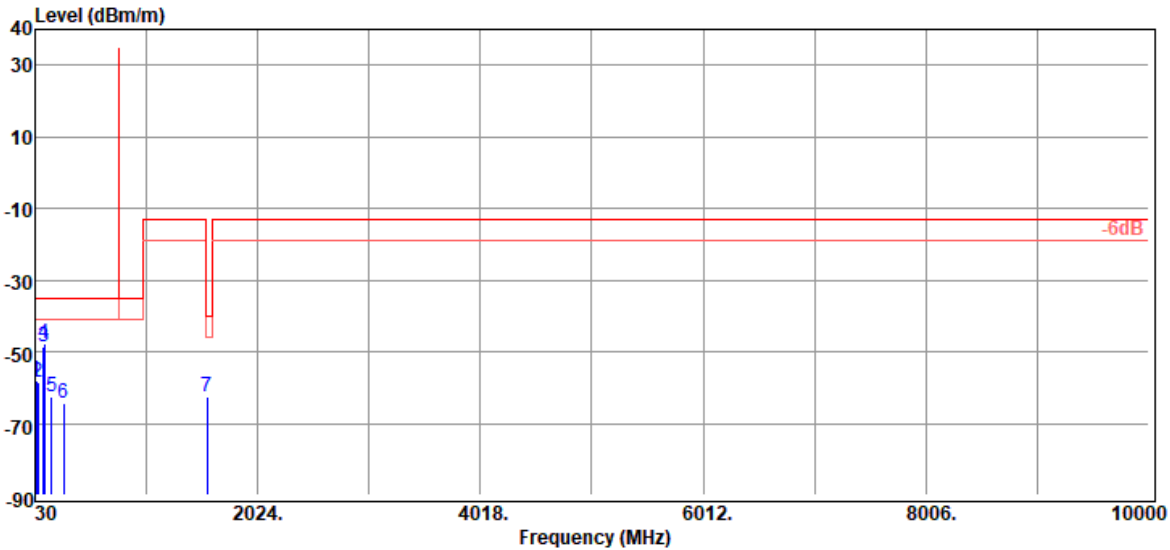
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :784.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-58.17	-38.09	-19.25	-0.83	-35.00	-23.17
56.19	-58.69	-41.49	-16.25	-0.95	-35.00	-23.69
104.69	-48.44	-40.27	-6.78	-1.39	-35.00	-13.44
116.33	-47.87	-39.29	-7.13	-1.45	-35.00	-12.87
180.35	-62.48	-56.39	-4.35	-1.74	-35.00	-27.48
287.05	-64.18	-60.04	-1.66	-2.48	-35.00	-29.18
1569.00	-62.34	-64.08	8.79	-7.05	-40.00	-22.34

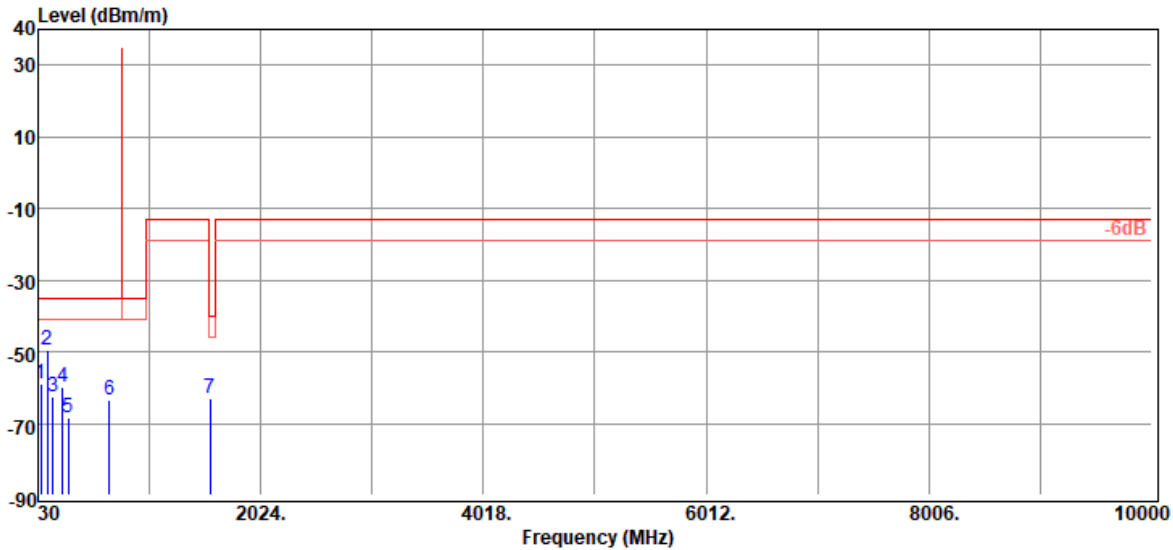
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :784.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-58.78	-41.37	-16.48	-0.93	-35.00	-23.78
115.36	-49.62	-41.03	-7.14	-1.45	-35.00	-14.62
162.89	-62.60	-54.09	-6.81	-1.70	-35.00	-27.60
252.13	-59.77	-55.98	-1.55	-2.24	-35.00	-24.77
301.60	-68.46	-64.43	-1.48	-2.55	-35.00	-33.46
666.32	-63.46	-58.37	-1.19	-3.90	-35.00	-28.46
1569.00	-63.16	-64.90	8.79	-7.05	-40.00	-23.16

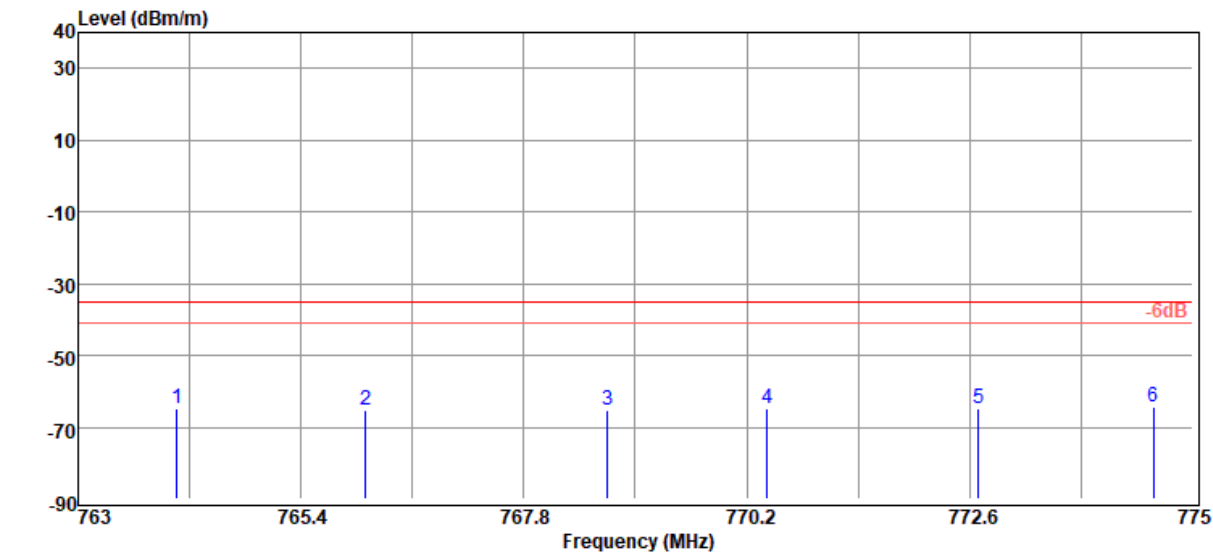
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (763-775MHz)

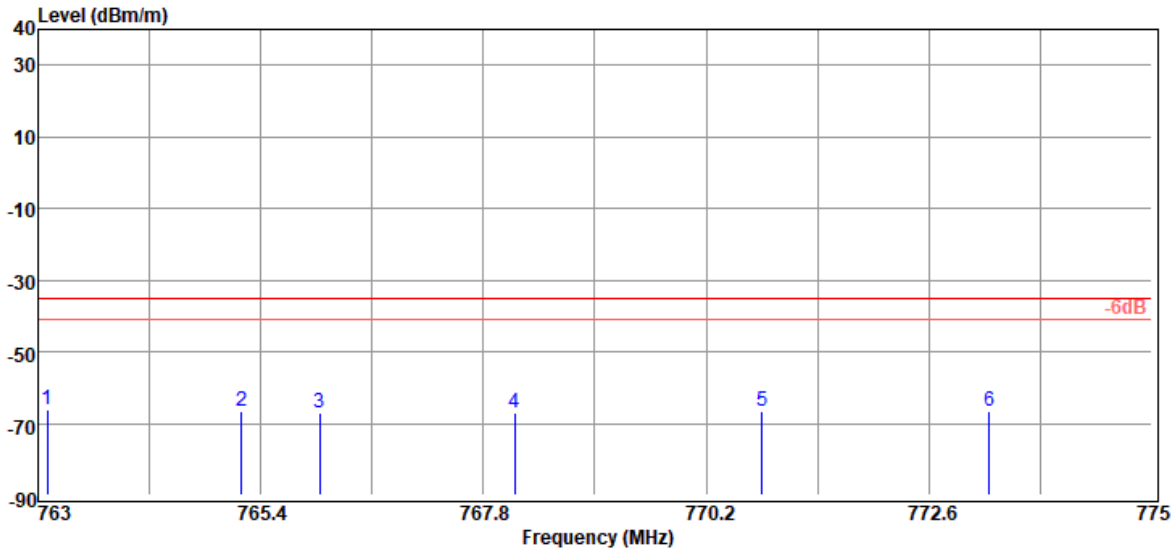
Report Number	:E2/2019/A0029	Test Date	:2020-05-19
Operation Mode	:LTE B13	Temp./Humi.	:24.8/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Frequency	:779.5 MHz		



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
764.07	-64.86	-58.91	-1.68	-4.27	-35.00	-29.86
766.10	-65.17	-59.24	-1.66	-4.27	-35.00	-30.17
768.70	-65.48	-59.58	-1.63	-4.27	-35.00	-30.48
770.42	-64.80	-58.90	-1.61	-4.29	-35.00	-29.80
772.70	-64.79	-58.84	-1.58	-4.37	-35.00	-29.79
774.58	-64.52	-58.52	-1.56	-4.44	-35.00	-29.52

Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :779.5 MHz

Test Date :2020-05-19
Temp./Humi. :24.8/57
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.10	-65.95	-59.99	-1.69	-4.27	-35.00	-30.95
765.20	-66.72	-60.78	-1.67	-4.27	-35.00	-31.72
766.04	-66.93	-61.00	-1.66	-4.27	-35.00	-31.93
768.14	-67.03	-61.13	-1.63	-4.27	-35.00	-32.03
770.80	-66.40	-60.50	-1.60	-4.30	-35.00	-31.40
773.25	-66.75	-60.79	-1.57	-4.39	-35.00	-31.75

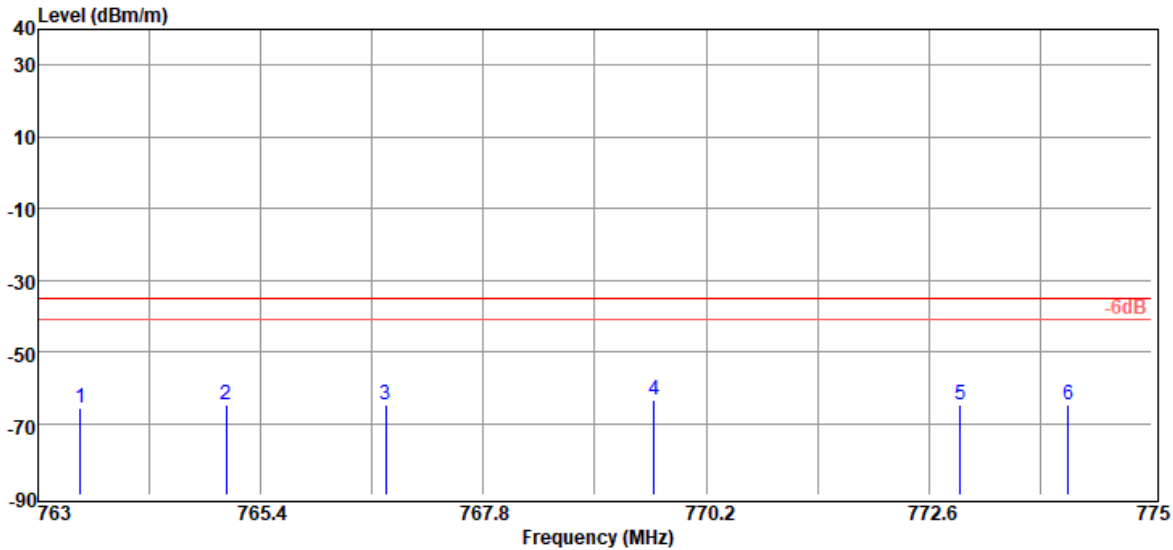
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Date :2020-05-19
Temp./Humi. :24.8/57
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.46	-65.59	-59.63	-1.69	-4.27	-35.00	-30.59
765.03	-64.69	-58.75	-1.67	-4.27	-35.00	-29.69
766.74	-65.03	-59.11	-1.65	-4.27	-35.00	-30.03
769.64	-63.45	-57.57	-1.61	-4.27	-35.00	-28.45
772.94	-64.92	-58.97	-1.57	-4.38	-35.00	-29.92
774.10	-64.66	-58.68	-1.56	-4.42	-35.00	-29.66

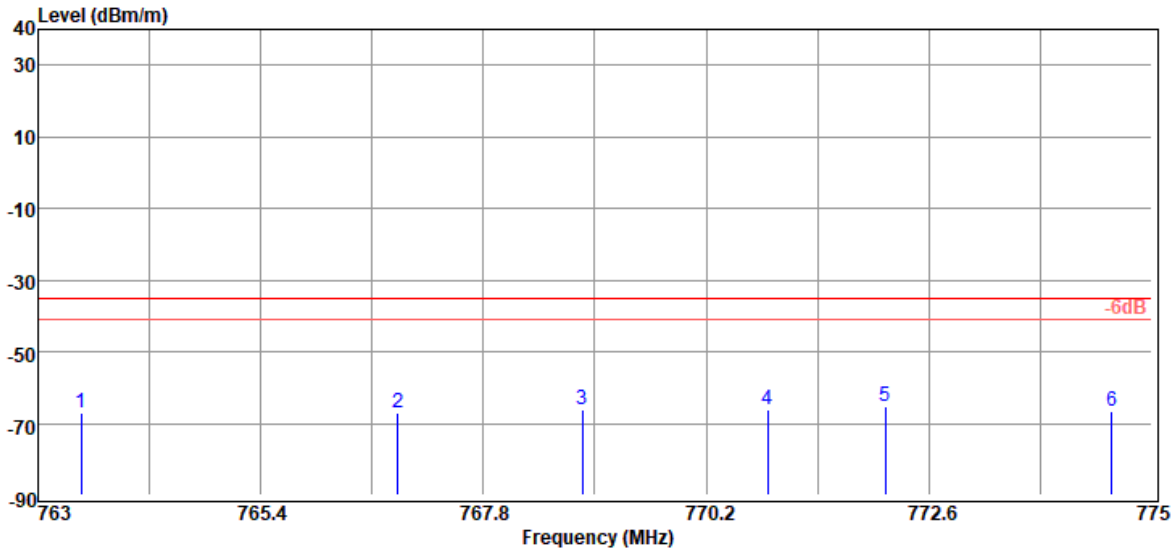
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Date :2020-05-19
Temp./Humi. :24.8/57
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
763.47	-66.86	-60.90	-1.69	-4.27	-35.00	-31.86
766.88	-66.92	-61.00	-1.65	-4.27	-35.00	-31.92
768.87	-65.94	-60.05	-1.62	-4.27	-35.00	-30.94
770.86	-66.18	-60.28	-1.60	-4.30	-35.00	-31.18
772.13	-65.33	-59.40	-1.58	-4.35	-35.00	-30.33
774.57	-66.39	-60.39	-1.56	-4.44	-35.00	-31.39

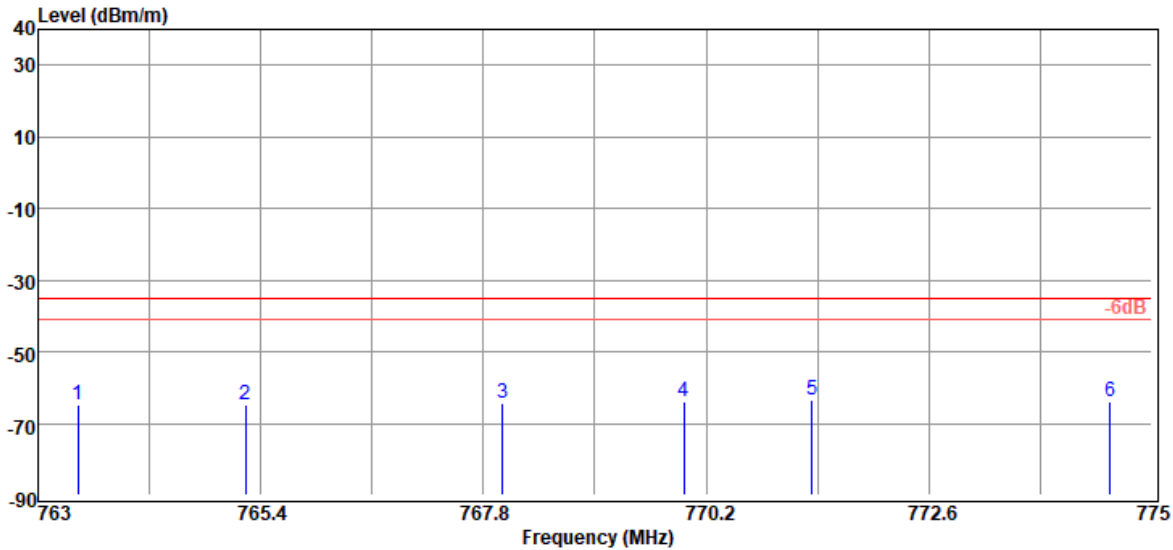
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :484.5 MHz

Test Date :2020-05-19
Temp./Humi. :24.8/57
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
763.43	-64.82	-58.86	-1.69	-4.27	-35.00	-29.82
765.23	-64.71	-58.77	-1.67	-4.27	-35.00	-29.71
768.00	-64.20	-58.30	-1.63	-4.27	-35.00	-29.20
769.96	-64.05	-58.17	-1.61	-4.27	-35.00	-29.05
771.34	-63.55	-57.64	-1.59	-4.32	-35.00	-28.55
774.56	-63.82	-57.82	-1.56	-4.44	-35.00	-28.82

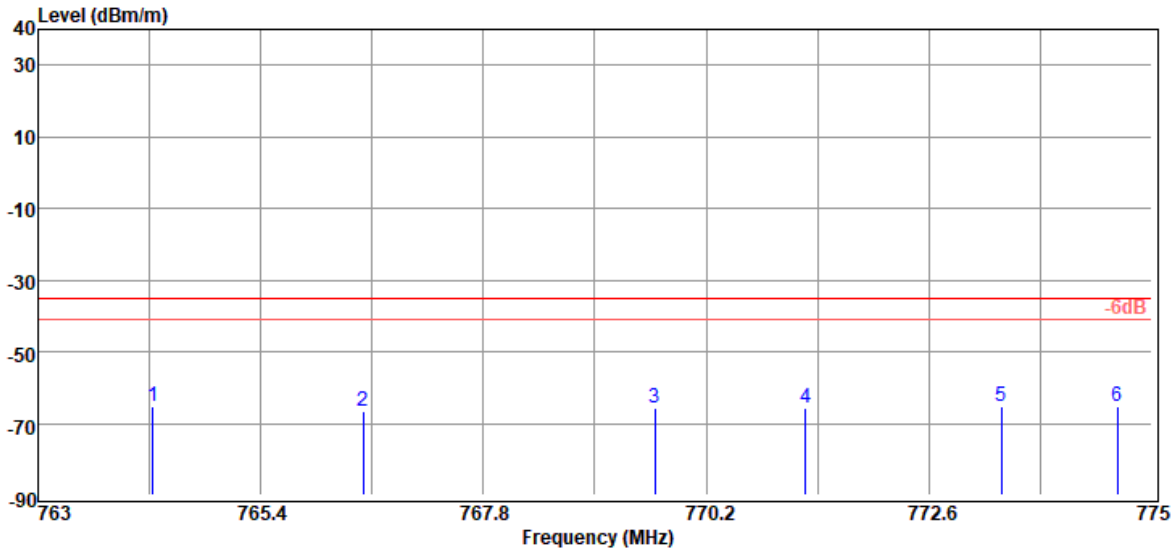
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :484.5 MHz

Test Date :2020-05-19
Temp./Humi. :24.8/57
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
764.24	-65.48	-59.53	-1.68	-4.27	-35.00	-30.48
766.50	-66.47	-60.55	-1.65	-4.27	-35.00	-31.47
769.65	-65.90	-60.02	-1.61	-4.27	-35.00	-30.90
771.27	-65.54	-59.63	-1.59	-4.32	-35.00	-30.54
773.38	-65.48	-59.51	-1.57	-4.40	-35.00	-30.48
774.63	-65.43	-59.44	-1.55	-4.44	-35.00	-30.43

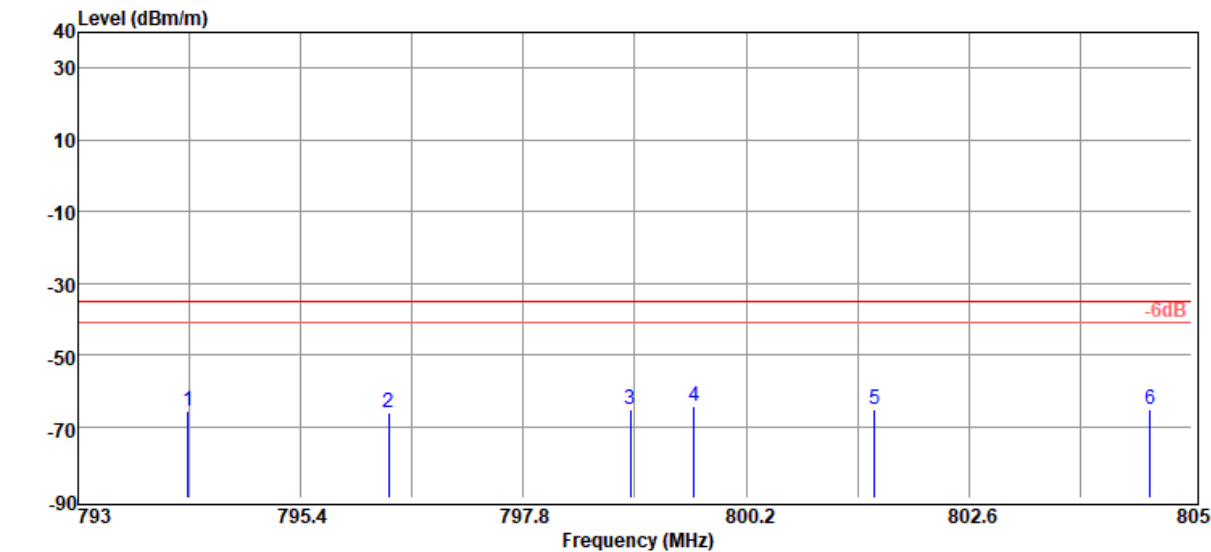
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (793-805MHz)

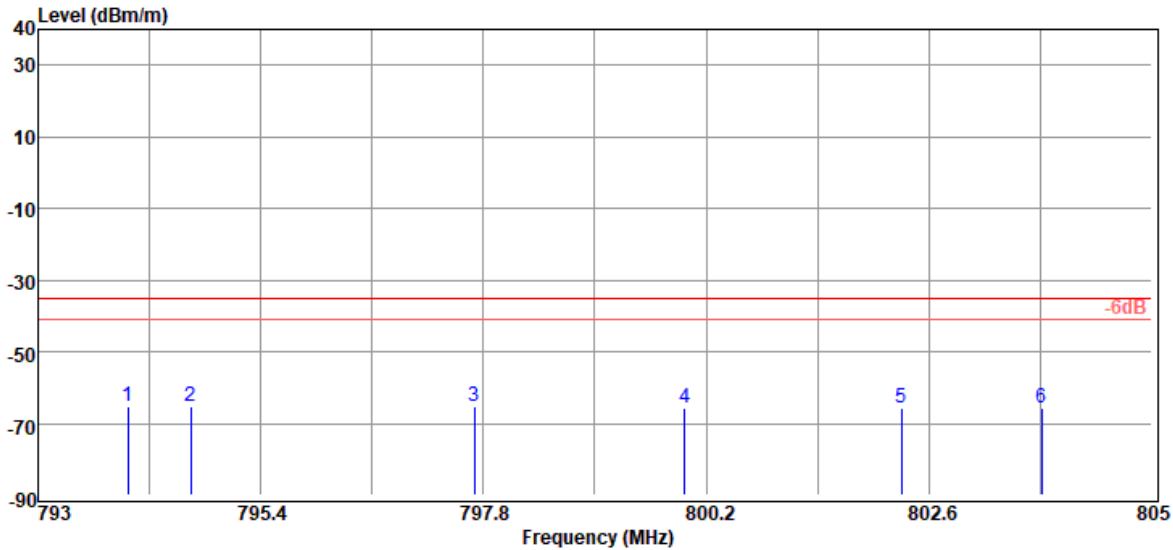
Report Number	:E2/2019/A0029	Test Date	:2020-05-19
Operation Mode	:LTE B13	Temp./Humi.	:24.6/56
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Frequency	:779.5 MHz		



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
794.19	-65.93	-59.75	-1.72	-4.46	-35.00	-30.93
796.35	-66.07	-60.01	-1.69	-4.37	-35.00	-31.07
798.95	-65.33	-59.46	-1.61	-4.26	-35.00	-30.33
799.64	-64.39	-58.56	-1.59	-4.24	-35.00	-29.39
801.58	-65.19	-59.41	-1.56	-4.22	-35.00	-30.19
804.56	-65.39	-59.64	-1.53	-4.22	-35.00	-30.39

Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :779.5 MHz

Test Date :2020-05-19
Temp./Humi. :24.6/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
793.97	-65.30	-59.11	-1.72	-4.47	-35.00	-30.30
794.64	-65.42	-59.25	-1.73	-4.44	-35.00	-30.42
797.70	-65.28	-59.31	-1.65	-4.32	-35.00	-30.28
799.97	-65.92	-60.12	-1.58	-4.22	-35.00	-30.92
802.30	-65.84	-60.07	-1.55	-4.22	-35.00	-30.84
803.81	-65.68	-59.93	-1.53	-4.22	-35.00	-30.68

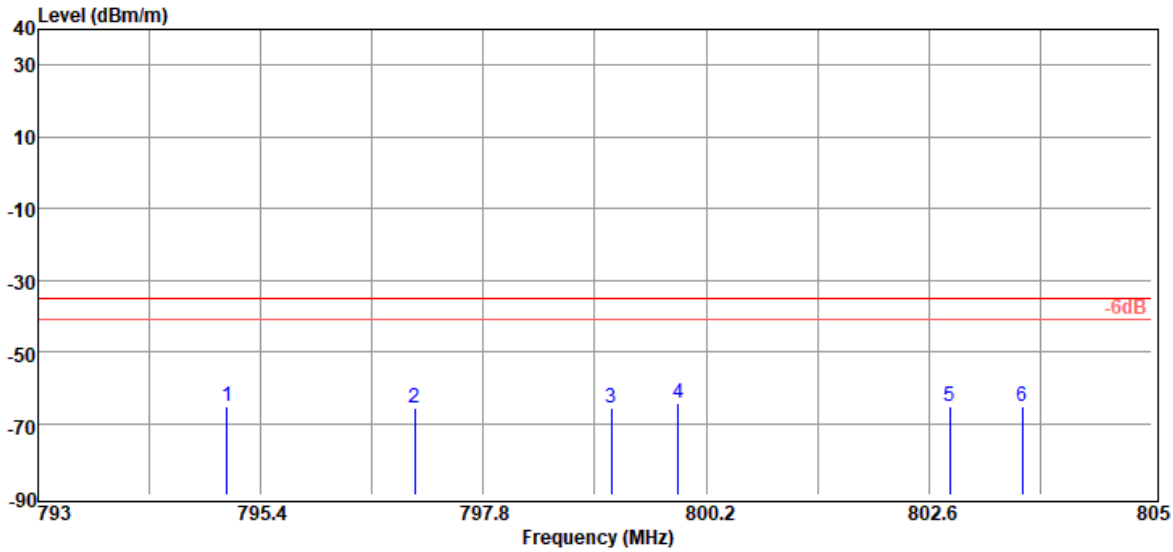
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Date :2020-05-19
Temp./Humi. :24.6/56
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
795.04	-65.14	-58.98	-1.73	-4.43	-35.00	-30.14
797.06	-65.93	-59.92	-1.67	-4.34	-35.00	-30.93
799.18	-65.75	-59.90	-1.60	-4.25	-35.00	-30.75
799.90	-64.44	-58.64	-1.58	-4.22	-35.00	-29.44
802.83	-65.19	-59.42	-1.55	-4.22	-35.00	-30.19
803.61	-65.12	-59.36	-1.54	-4.22	-35.00	-30.12

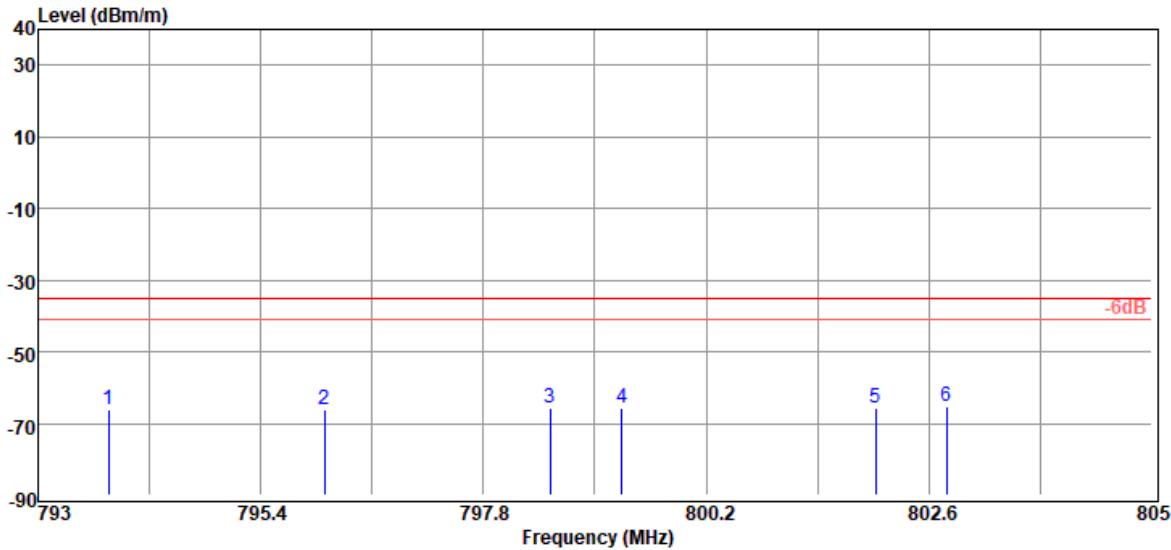
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :782 MHz

Test Date :2020-05-19
Temp./Humi. :24.6/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.76	-66.00	-59.80	-1.72	-4.48	-35.00	-31.00
796.08	-66.06	-59.98	-1.70	-4.38	-35.00	-31.06
798.52	-65.60	-59.70	-1.62	-4.28	-35.00	-30.60
799.29	-65.69	-59.84	-1.60	-4.25	-35.00	-30.69
802.02	-65.64	-59.86	-1.56	-4.22	-35.00	-30.64
802.79	-65.42	-59.65	-1.55	-4.22	-35.00	-30.42

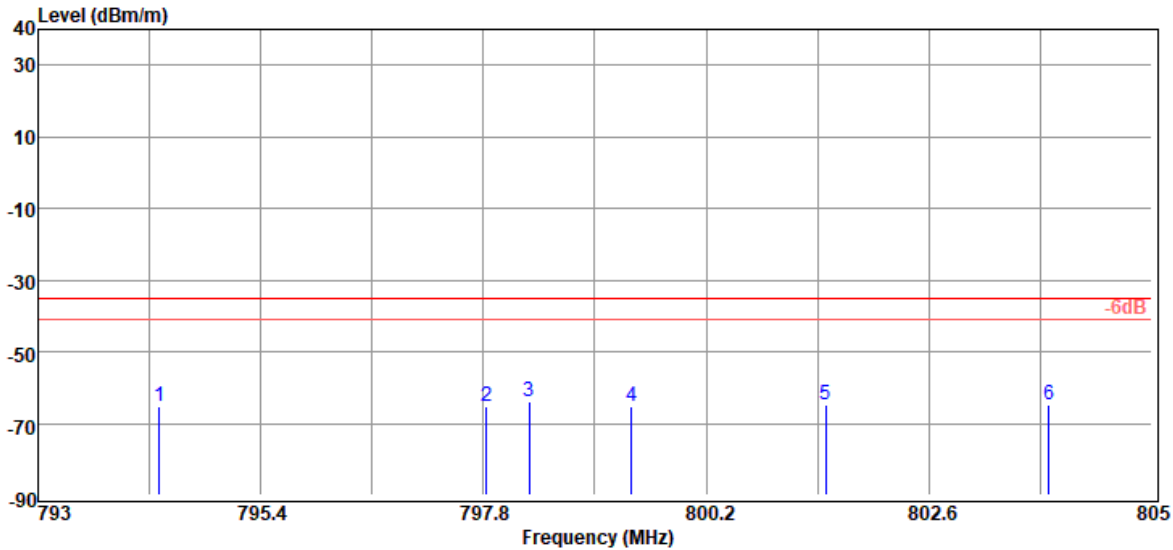
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :784.5 MHz

Test Date :2020-05-19
Temp./Humi. :24.6/56
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
794.31	-65.28	-59.10	-1.72	-4.46	-35.00	-30.28
797.84	-65.35	-59.40	-1.64	-4.31	-35.00	-30.35
798.29	-64.03	-58.11	-1.63	-4.29	-35.00	-29.03
799.40	-65.13	-59.28	-1.60	-4.25	-35.00	-30.13
801.48	-64.85	-59.07	-1.56	-4.22	-35.00	-29.85
803.90	-64.81	-59.06	-1.53	-4.22	-35.00	-29.81

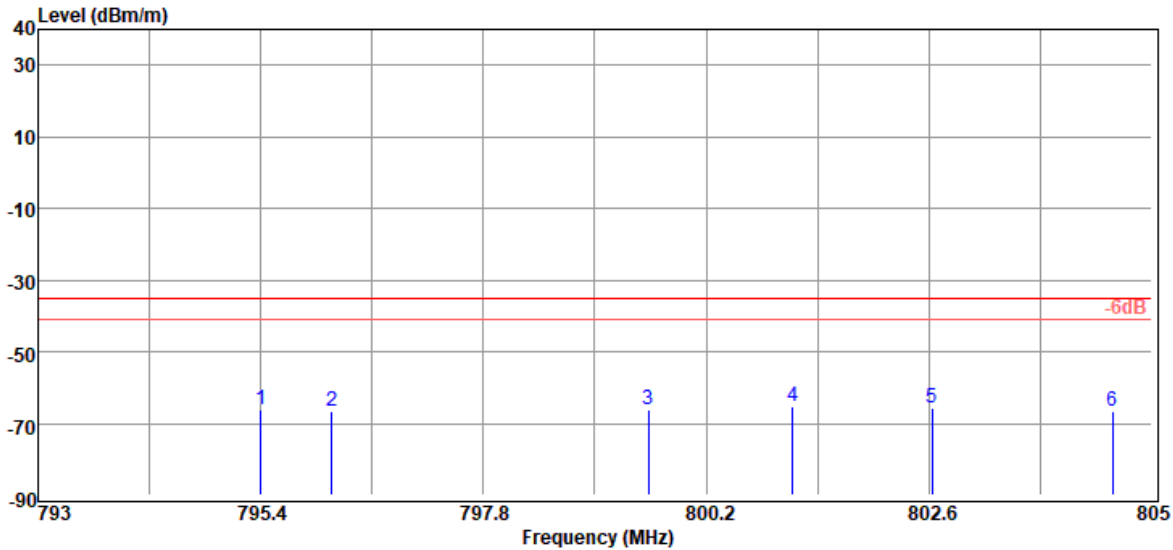
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :784.5 MHz

Test Date :2020-05-19
Temp./Humi. :24.6/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
795.40	-66.36	-60.23	-1.72	-4.41	-35.00	-31.36
796.17	-66.42	-60.35	-1.69	-4.38	-35.00	-31.42
799.58	-66.01	-60.18	-1.59	-4.24	-35.00	-31.01
801.14	-65.34	-59.55	-1.57	-4.22	-35.00	-30.34
802.64	-65.52	-59.75	-1.55	-4.22	-35.00	-30.52
804.58	-66.63	-60.88	-1.53	-4.22	-35.00	-31.63

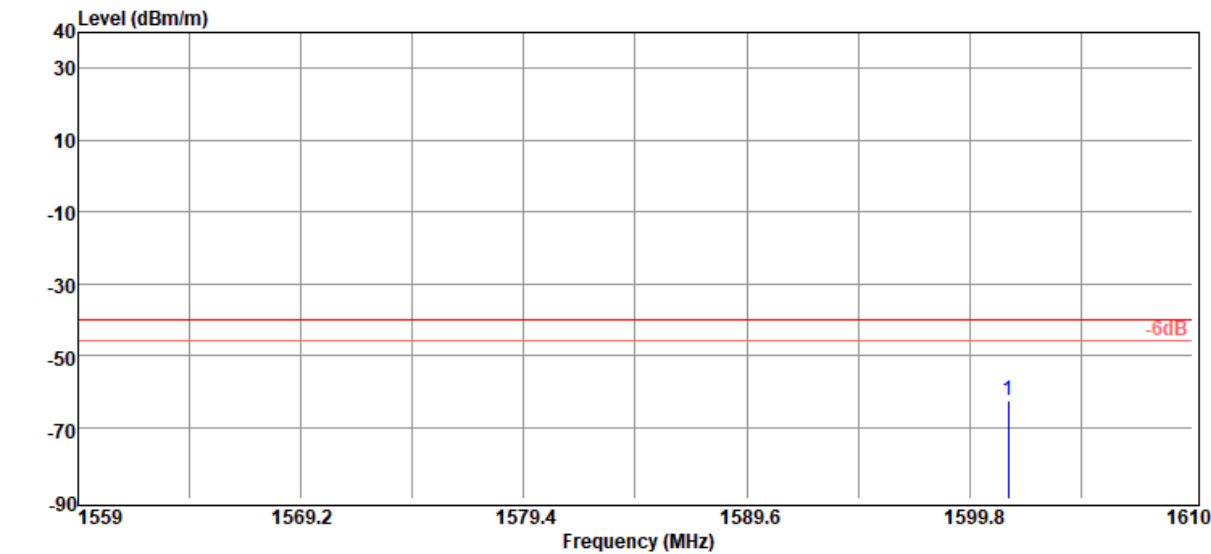
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (1559-1610MHz)

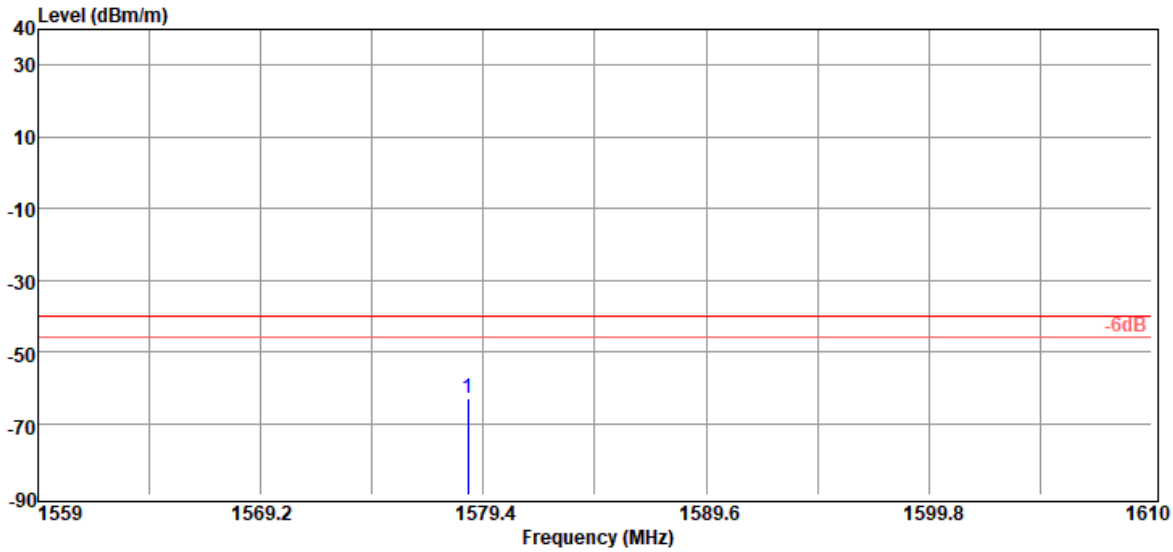
Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B13	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:779.5 MHz		



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
1601.59	-62.38	-64.27	9.11	-7.22	-40.00	-22.38

Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
1578.69	-62.99	-64.78	8.89	-7.10	-40.00	-22.99

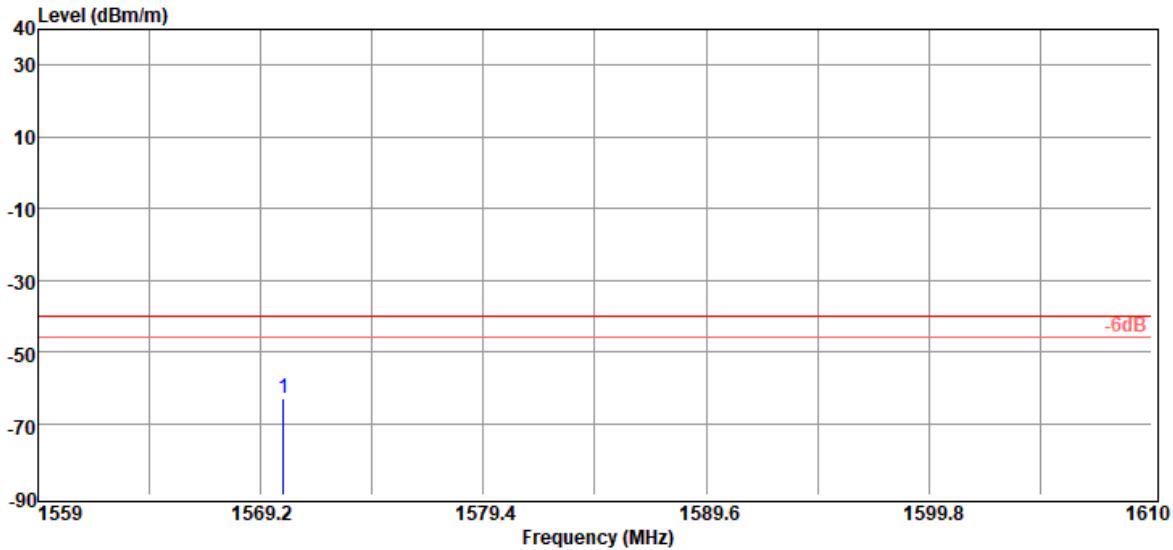
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :782 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
1570.22	-63.12	-64.86	8.80	-7.06	-40.00	-23.12

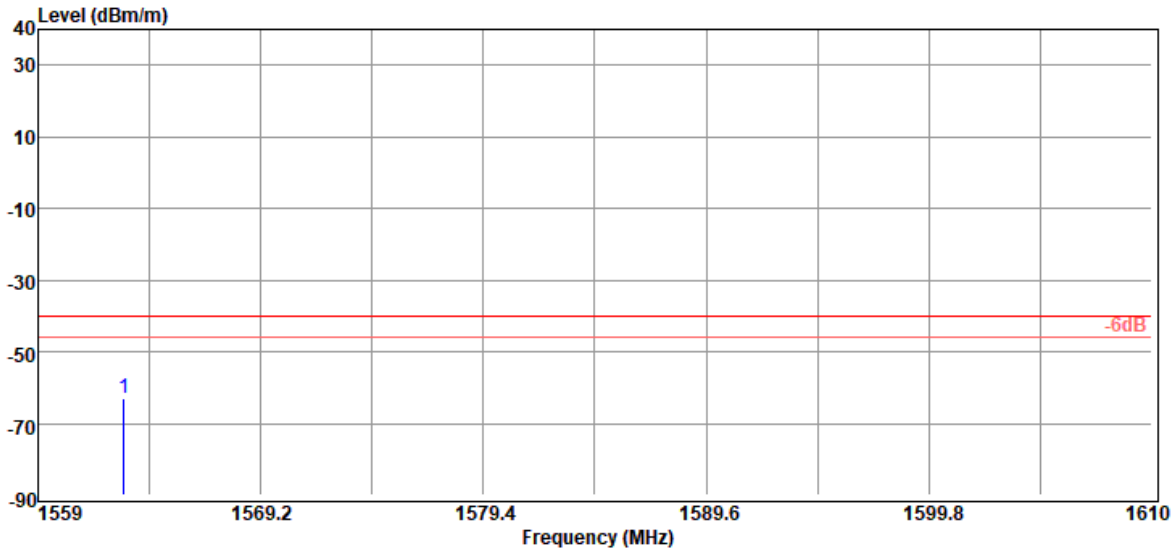
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :782 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
1562.93	-62.96	-64.67	8.73	-7.02	-40.00	-22.96

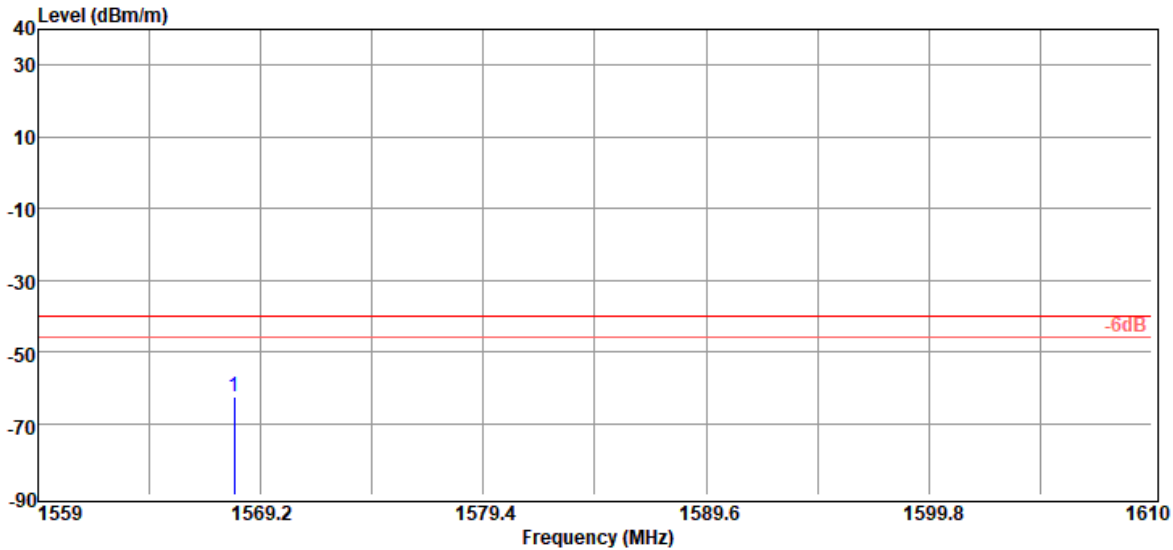
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :784.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
1567.98	-62.59	-64.32	8.78	-7.05	-40.00	-22.59

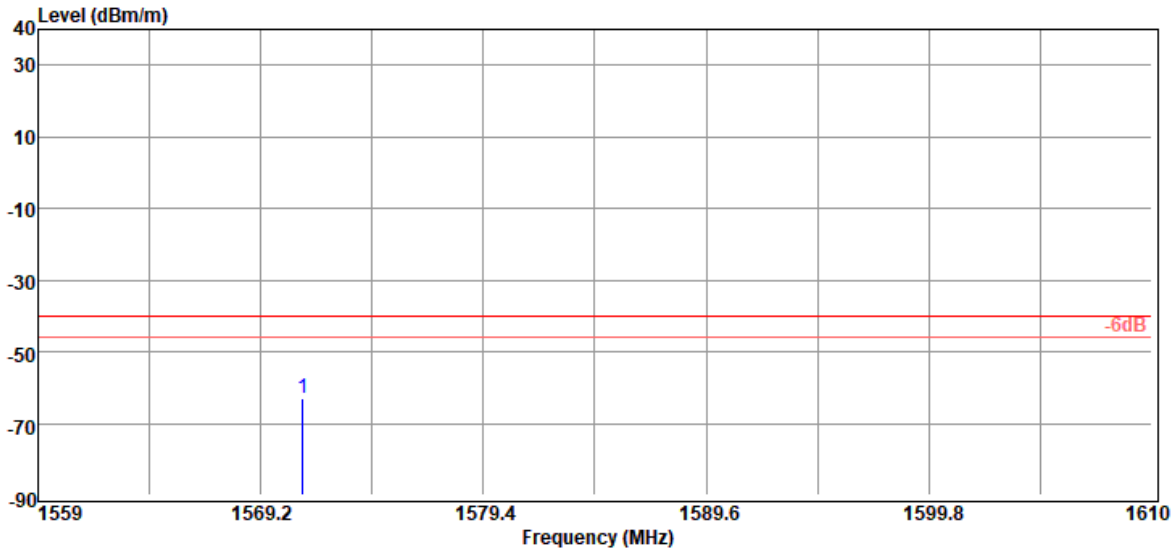
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Report Number :E2/2019/A0029
Operation Mode :LTE B13
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :784.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
1571.14	-63.11	-64.86	8.81	-7.06	-40.00	-23.11

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Radiated Spurious Emission Measurement Result: LTE Band 14 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-21

Operation Mode :LTE B14

Temp./Humi. :23.5/57

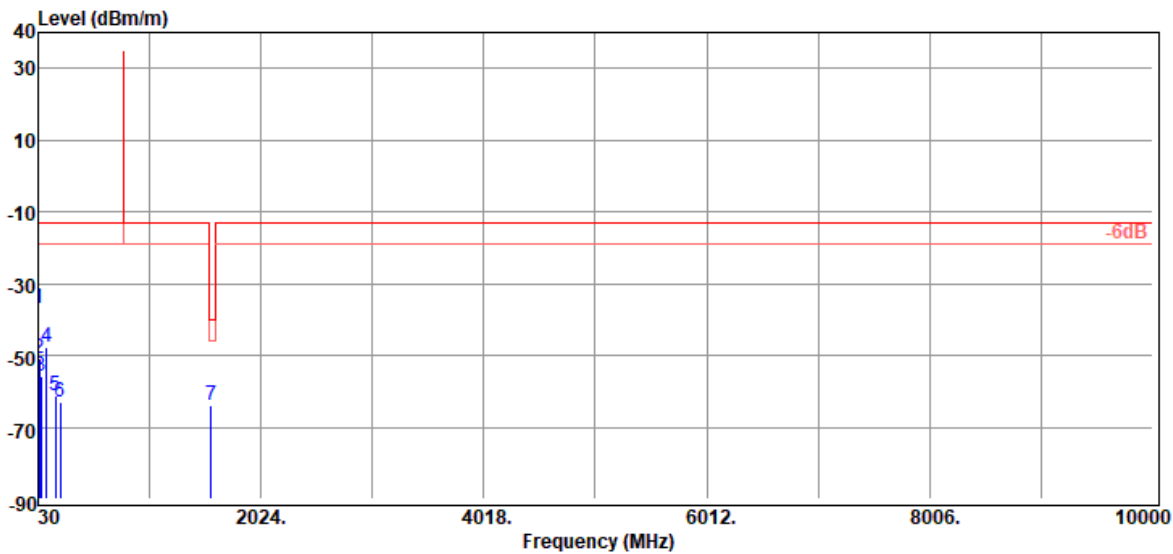
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :790.5 MHz



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-36.78	-16.38	-19.64	-0.76	-13.00	-23.78
43.58	-50.99	-31.42	-18.71	-0.86	-13.00	-37.99
55.22	-55.93	-38.52	-16.48	-0.93	-13.00	-42.93
104.69	-47.67	-39.50	-6.78	-1.39	-13.00	-34.67
183.26	-61.13	-55.50	-3.85	-1.78	-13.00	-48.13
228.85	-62.96	-59.41	-1.36	-2.19	-13.00	-49.96
1581.00	-63.81	-65.61	8.91	-7.11	-40.00	-23.81

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台灣檢驗科技股份有限公司

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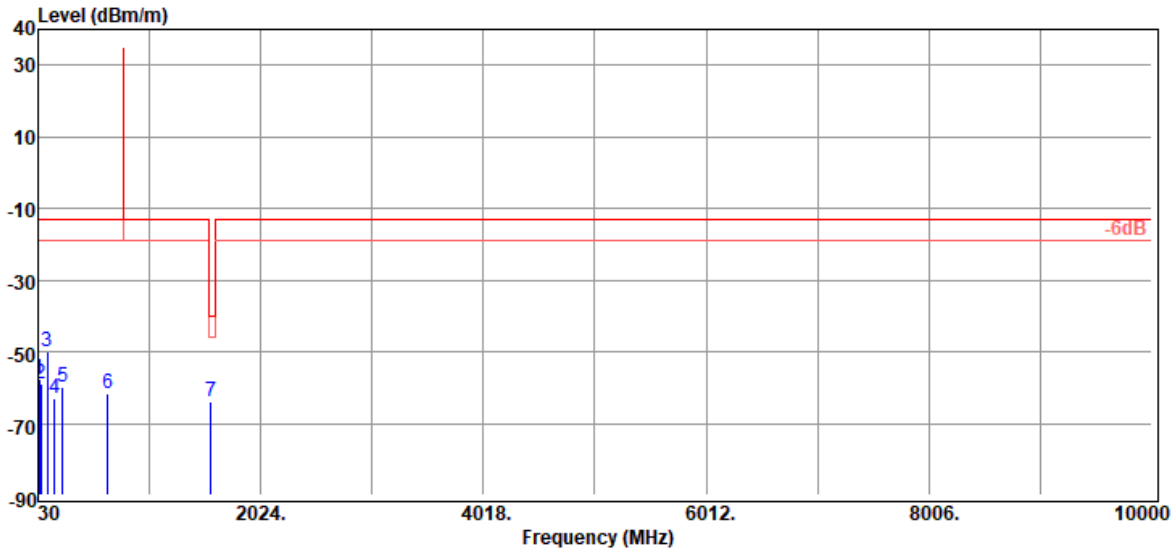
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Member of SGS Group

Report Number :E2/2019/A0029
Operation Mode :LTE B14
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :790.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-57.60	-37.72	-19.02	-0.86	-13.00	-44.60
55.22	-58.74	-41.33	-16.48	-0.93	-13.00	-45.74
115.36	-49.81	-41.22	-7.14	-1.45	-13.00	-36.81
177.44	-62.88	-56.27	-4.87	-1.74	-13.00	-49.88
249.22	-59.79	-55.95	-1.61	-2.23	-13.00	-46.79
657.59	-61.73	-56.61	-1.33	-3.79	-13.00	-48.73
1581.00	-63.78	-65.58	8.91	-7.11	-40.00	-23.78

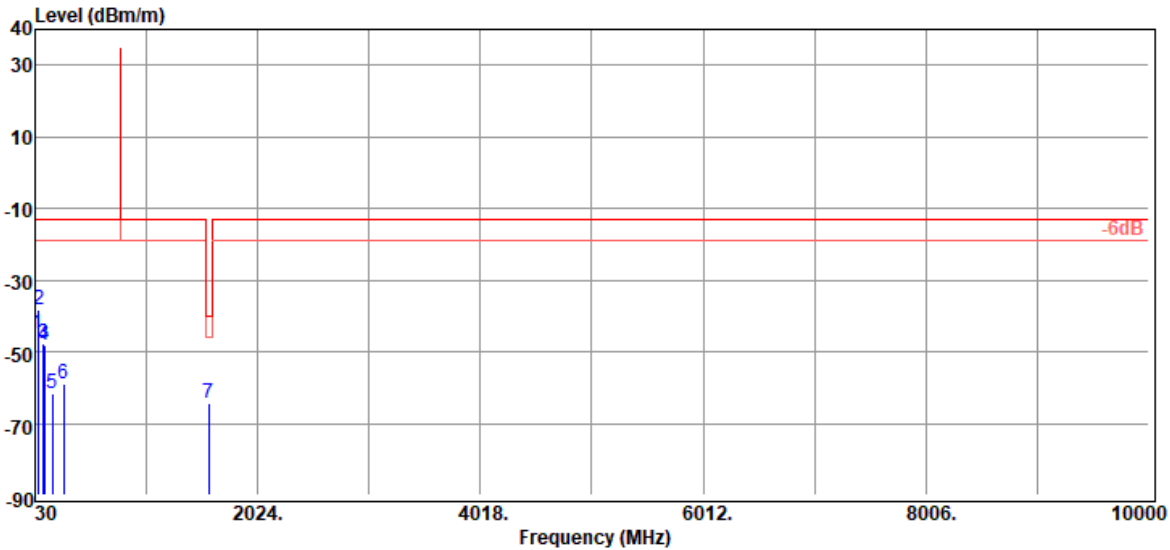
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Report Number :E2/2019/A0029
Operation Mode :LTE B14
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :793 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-45.08	-27.88	-16.25	-0.95	-13.00	-32.08
63.95	-38.33	-23.30	-14.03	-1.00	-13.00	-25.33
104.69	-47.68	-39.51	-6.78	-1.39	-13.00	-34.68
116.33	-48.30	-39.72	-7.13	-1.45	-13.00	-35.30
185.20	-61.72	-56.34	-3.57	-1.81	-13.00	-48.72
288.99	-59.10	-54.92	-1.68	-2.50	-13.00	-46.10
1586.00	-64.39	-66.21	8.96	-7.14	-40.00	-24.39

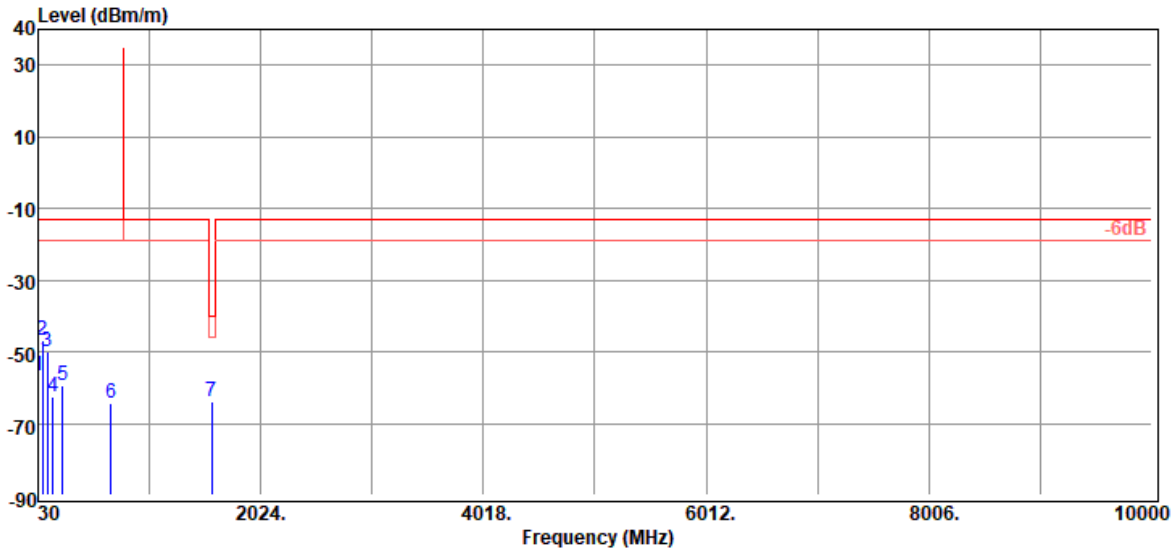
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Report Number :E2/2019/A0029
Operation Mode :LTE B14
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :793 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.77	-35.26	-20.90	-0.61	-13.00	-43.77
66.86	-46.88	-32.83	-13.05	-1.00	-13.00	-33.88
116.33	-49.86	-41.28	-7.13	-1.45	-13.00	-36.86
164.83	-62.36	-54.05	-6.60	-1.71	-13.00	-49.36
251.16	-59.46	-55.67	-1.56	-2.23	-13.00	-46.46
679.90	-64.16	-58.91	-1.29	-3.96	-13.00	-51.16
1586.00	-63.87	-65.69	8.96	-7.14	-40.00	-23.87

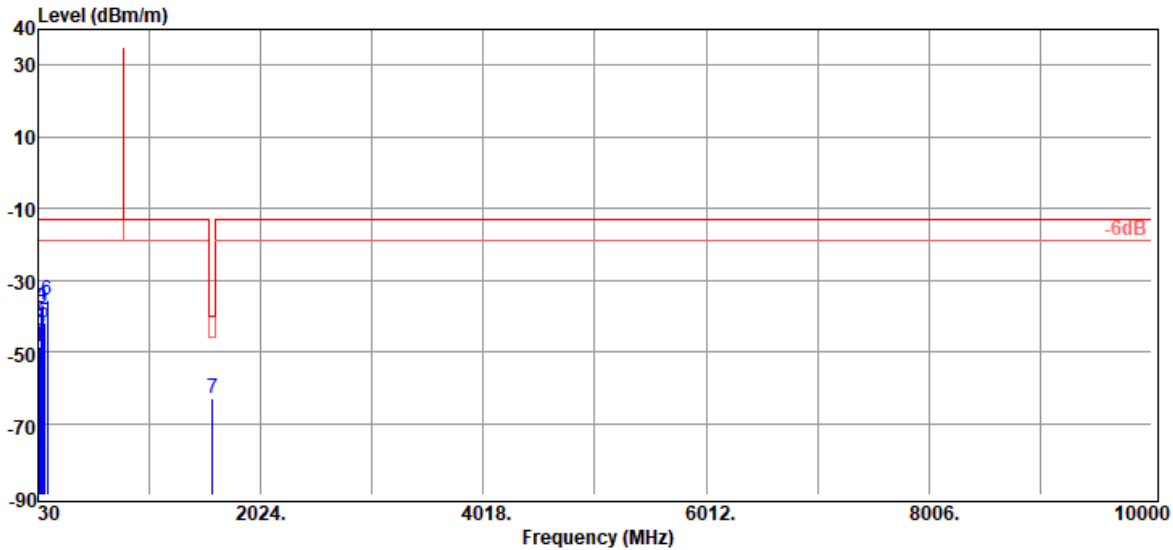
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Report Number :E2/2019/A0029
Operation Mode :LTE B14
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :795.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-48.50	-28.83	-18.81	-0.86	-13.00	-35.50
55.22	-45.37	-27.96	-16.48	-0.93	-13.00	-32.37
62.98	-37.90	-22.64	-14.26	-1.00	-13.00	-24.90
69.77	-37.04	-23.93	-12.11	-1.00	-13.00	-24.04
82.38	-41.90	-33.06	-7.68	-1.16	-13.00	-28.90
110.51	-35.60	-27.13	-7.02	-1.45	-13.00	-22.60
1591.00	-63.13	-64.98	9.01	-7.16	-40.00	-23.13

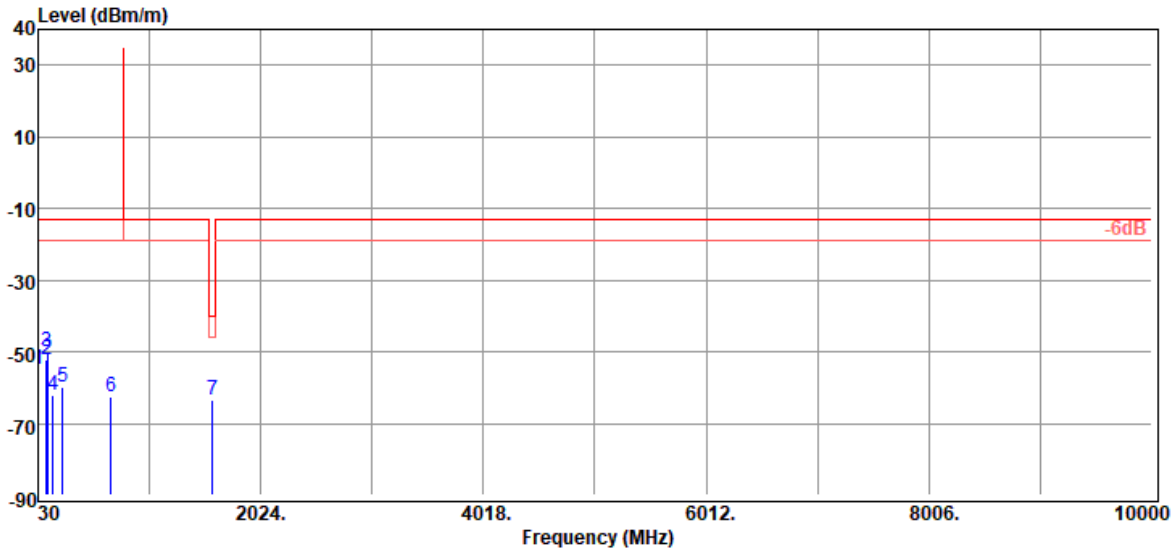
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Report Number :E2/2019/A0029
Operation Mode :LTE B14
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :795.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-54.84	-33.59	-20.62	-0.63	-13.00	-41.84
104.69	-52.13	-43.96	-6.78	-1.39	-13.00	-39.13
116.33	-49.84	-41.26	-7.13	-1.45	-13.00	-36.84
164.83	-62.21	-53.90	-6.60	-1.71	-13.00	-49.21
251.16	-59.81	-56.02	-1.56	-2.23	-13.00	-46.81
680.87	-62.78	-57.48	-1.31	-3.99	-13.00	-49.78
1591.00	-63.39	-65.24	9.01	-7.16	-40.00	-23.39

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Radiated Spurious Emission Measurement Result: LTE Band 25 Mode

Report Number :E2/2019/A0029

Test Date :2019-12-06

Operation Mode :LTE B25

Temp./Humi. :24.2/48

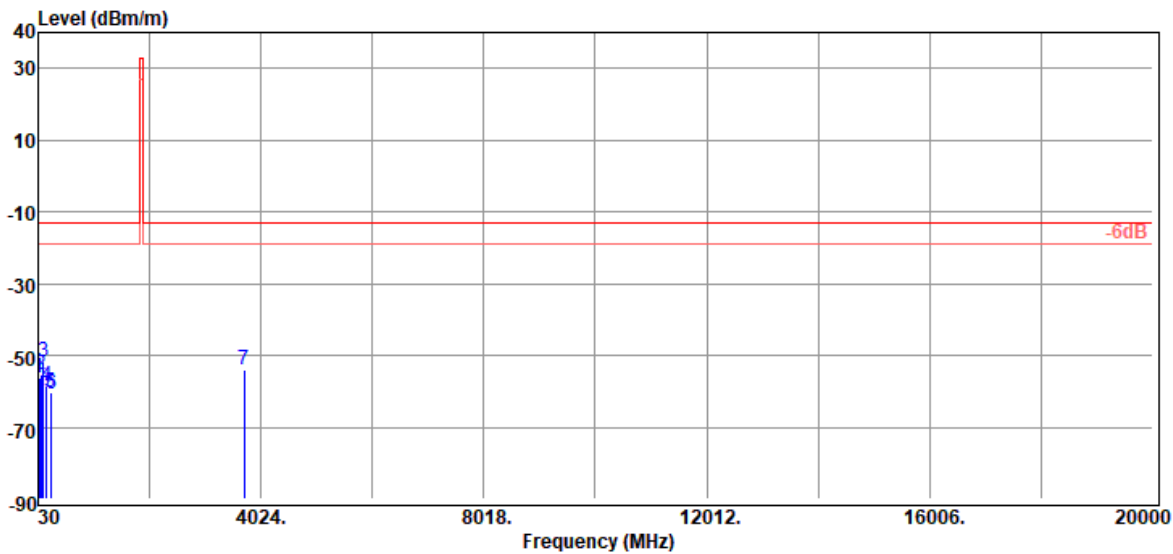
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Ashton

Test Channel :1860 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
57.16	-56.42	-39.40	-16.06	-0.96	-13.00	-43.42
76.56	-55.20	-44.61	-9.49	-1.10	-13.00	-42.20
119.24	-51.71	-43.22	-7.04	-1.45	-13.00	-38.71
183.26	-58.72	-53.09	-3.85	-1.78	-13.00	-45.72
250.19	-60.42	-56.61	-1.58	-2.23	-13.00	-47.42
261.83	-60.54	-56.72	-1.55	-2.27	-13.00	-47.54
3720.00	-54.16	-55.25	12.34	-11.25	-13.00	-41.16

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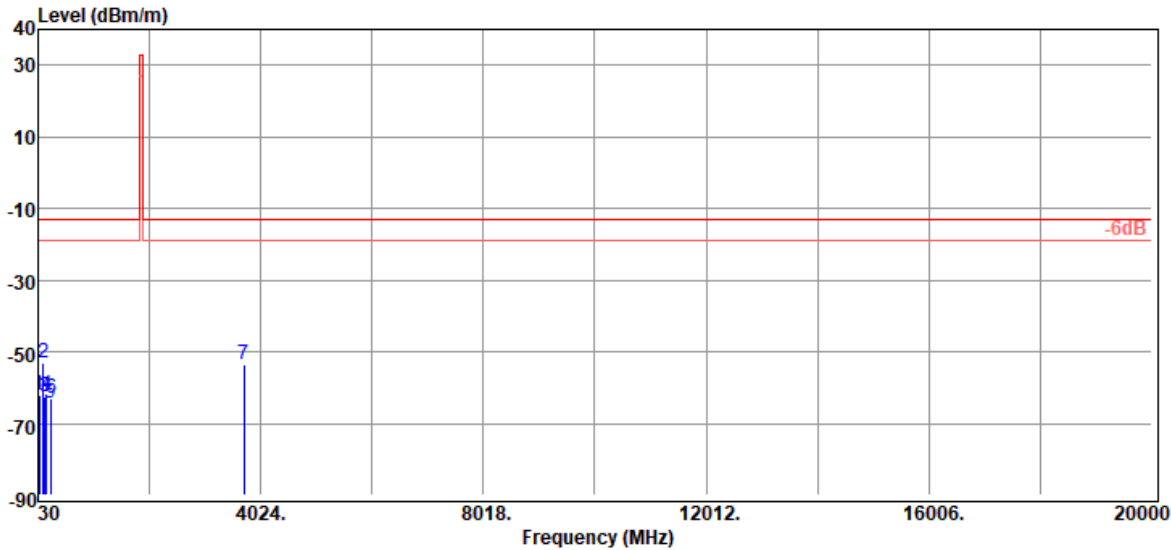
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Report Number :E2/2019/A0029
Operation Mode :LTE B25
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :1860 MHz

Test Date :2019-12-06
Temp./Humi. :24.2/48
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-62.23	-45.21	-16.06	-0.96	-13.00	-49.23
118.27	-52.96	-44.43	-7.08	-1.45	-13.00	-39.96
154.16	-62.53	-53.65	-7.20	-1.68	-13.00	-49.53
184.23	-62.03	-56.53	-3.71	-1.79	-13.00	-49.03
248.25	-64.56	-60.69	-1.64	-2.23	-13.00	-51.56
263.77	-63.21	-59.37	-1.57	-2.27	-13.00	-50.21
3720.00	-53.66	-54.75	12.34	-11.25	-13.00	-40.66

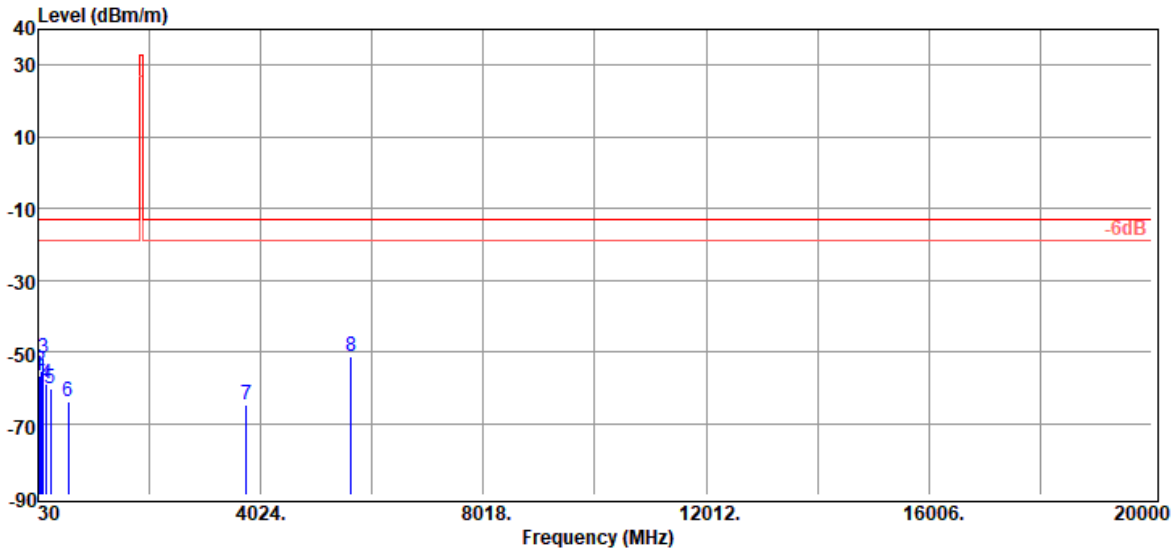
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Report Number :E2/2019/A0029
Operation Mode :LTE B25
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1882.5 MHz

Test Date :2019-12-06
Temp./Humi. :24.4/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-56.57	-39.37	-16.25	-0.95	-13.00	-43.57
76.56	-55.42	-44.83	-9.49	-1.10	-13.00	-42.42
119.24	-51.72	-43.23	-7.04	-1.45	-13.00	-38.72
185.20	-58.93	-53.55	-3.57	-1.81	-13.00	-45.93
252.13	-60.38	-56.59	-1.55	-2.24	-13.00	-47.38
575.14	-63.86	-58.81	-1.45	-3.60	-13.00	-50.86
3765.00	-64.80	-66.17	12.43	-11.06	-13.00	-51.80
5647.50	-51.16	-53.07	13.50	-11.59	-13.00	-38.16

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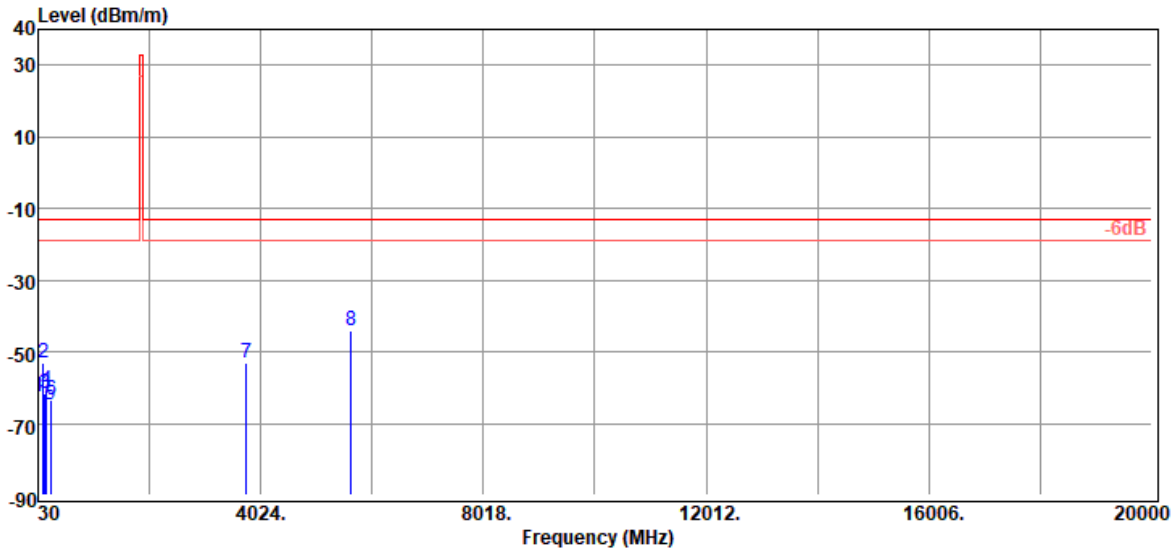
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Report Number :E2/2019/A0029
Operation Mode :LTE B25
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1882.5 MHz

Test Date :2019-12-06
Temp./Humi. :24.4/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-62.52	-42.37	-19.35	-0.80	-13.00	-49.52
119.24	-53.23	-44.74	-7.04	-1.45	-13.00	-40.23
152.22	-61.88	-52.91	-7.29	-1.68	-13.00	-48.88
183.26	-60.92	-55.29	-3.85	-1.78	-13.00	-47.92
248.25	-64.77	-60.90	-1.64	-2.23	-13.00	-51.77
266.68	-63.41	-59.55	-1.59	-2.27	-13.00	-50.41
3765.00	-53.12	-54.49	12.43	-11.06	-13.00	-40.12
5647.50	-44.05	-45.96	13.50	-11.59	-13.00	-31.05

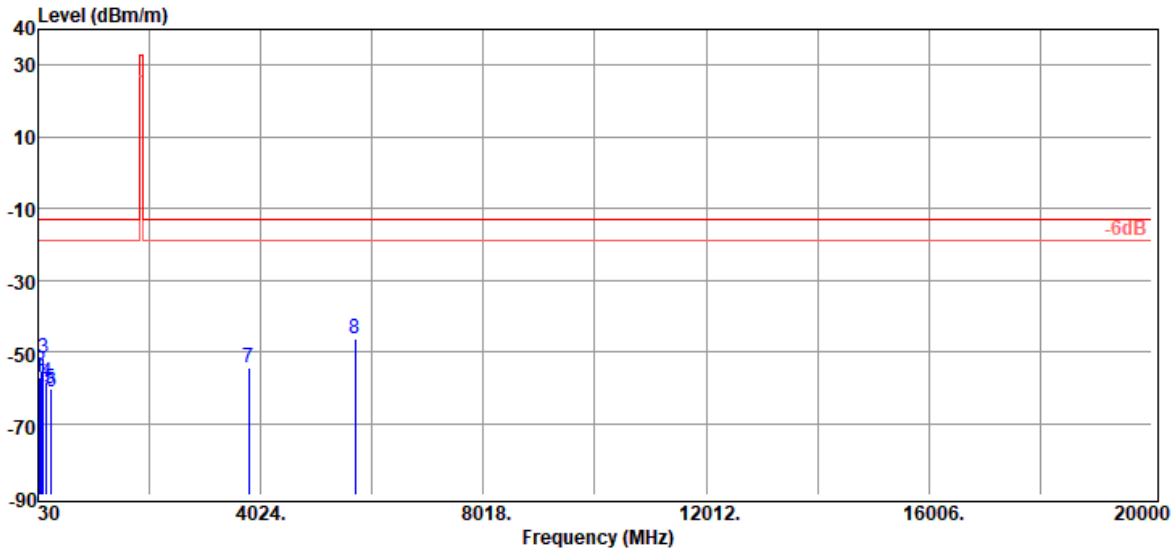
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Report Number :E2/2019/A0029
Operation Mode :LTE B25
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1905 MHz

Test Date :2019-12-06
Temp./Humi. :24.5/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-57.04	-39.84	-16.25	-0.95	-13.00	-44.04
76.56	-55.26	-44.67	-9.49	-1.10	-13.00	-42.26
119.24	-51.60	-43.11	-7.04	-1.45	-13.00	-38.60
187.14	-58.61	-53.50	-3.28	-1.83	-13.00	-45.61
251.16	-60.50	-56.71	-1.56	-2.23	-13.00	-47.50
261.83	-61.18	-57.36	-1.55	-2.27	-13.00	-48.18
3810.00	-54.54	-56.14	12.50	-10.90	-13.00	-41.54
5715.00	-46.54	-48.20	13.37	-11.71	-13.00	-33.54

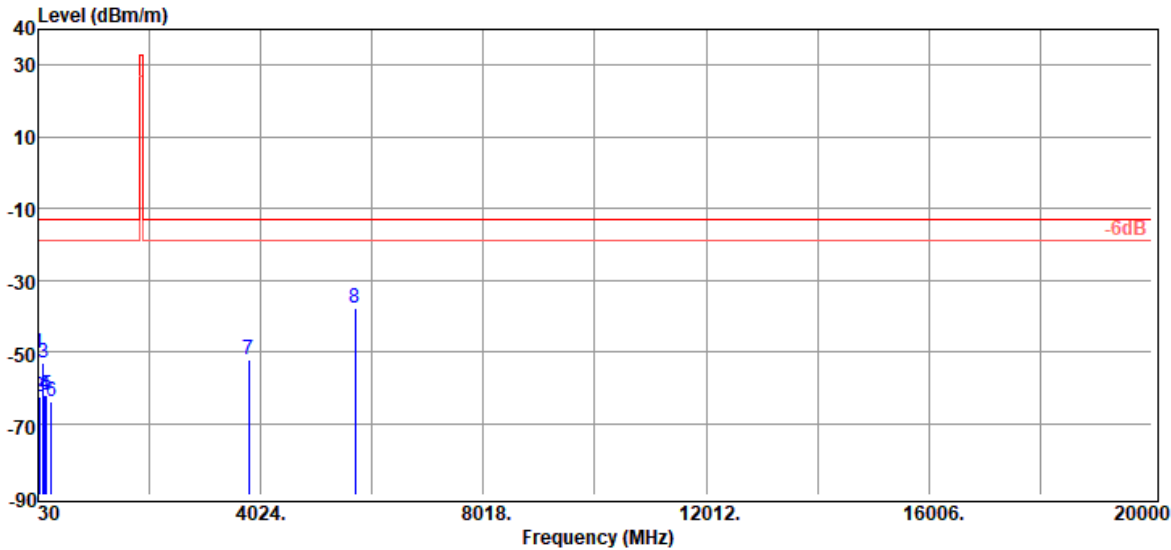
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Report Number :E2/2019/A0029
Operation Mode :LTE B25
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1905 MHz

Test Date :2019-12-06
Temp./Humi. :24.5/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-50.20	-29.80	-19.64	-0.76	-13.00	-37.20
55.22	-62.62	-45.21	-16.48	-0.93	-13.00	-49.62
119.24	-53.16	-44.67	-7.04	-1.45	-13.00	-40.16
155.13	-62.14	-53.25	-7.21	-1.68	-13.00	-49.14
182.29	-62.07	-56.30	-4.00	-1.77	-13.00	-49.07
266.68	-63.93	-60.07	-1.59	-2.27	-13.00	-50.93
3810.00	-52.39	-53.99	12.50	-10.90	-13.00	-39.39
5715.00	-37.92	-39.58	13.37	-11.71	-13.00	-24.92

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Radiated Spurious Emission Measurement Result: LTE Band 26 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-21

Operation Mode :LTE B26

Temp./Humi. :23.5/57

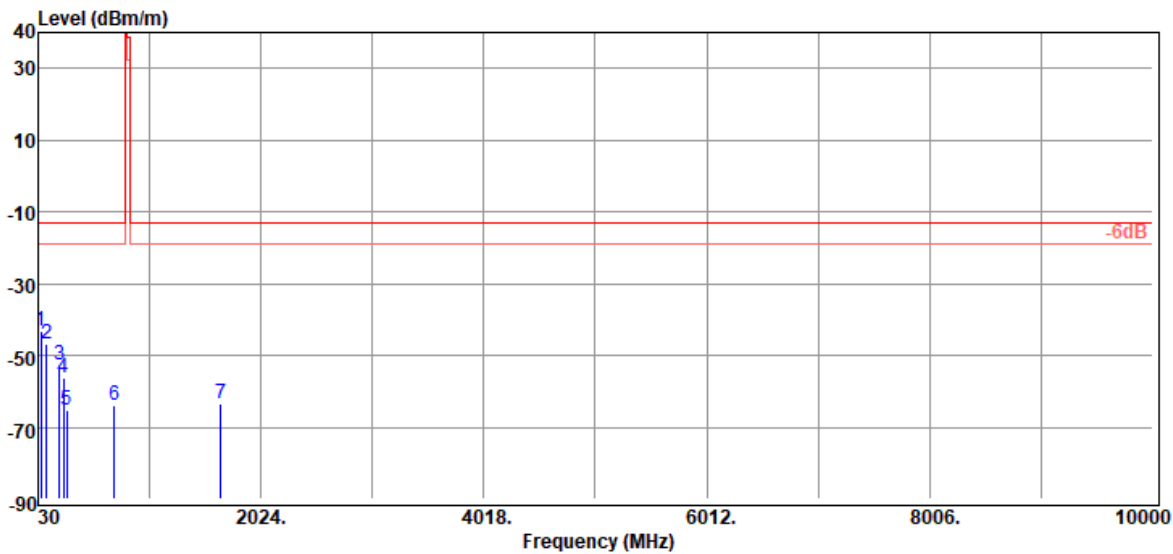
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :831.5 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
55.22	-43.13	-25.72	-16.48	-0.93	-13.00	-30.13
104.69	-46.65	-38.48	-6.78	-1.39	-13.00	-33.65
220.12	-52.78	-49.30	-1.29	-2.19	-13.00	-39.78
256.98	-56.19	-52.41	-1.52	-2.26	-13.00	-43.19
286.08	-65.10	-60.98	-1.65	-2.47	-13.00	-52.10
711.91	-63.92	-58.69	-1.33	-3.90	-13.00	-50.92
1663.00	-63.31	-65.13	9.43	-7.61	-13.00	-50.31

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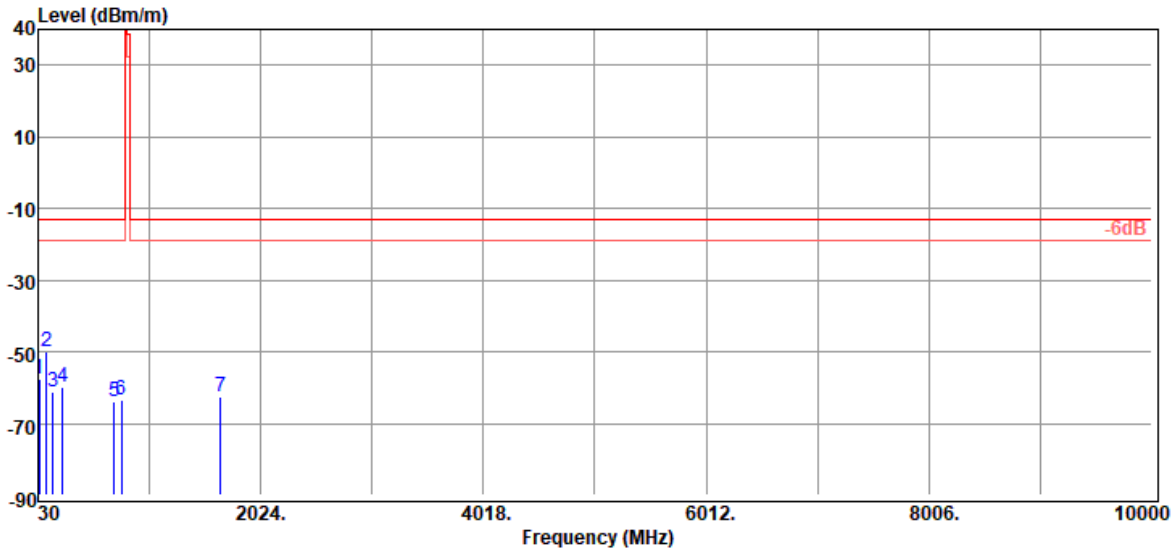
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Member of SGS Group

Report Number :E2/2019/A0029
Operation Mode :LTE B26
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :831.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-57.71	-37.83	-19.02	-0.86	-13.00	-44.71
103.72	-50.15	-42.14	-6.64	-1.37	-13.00	-37.15
166.77	-61.27	-53.05	-6.50	-1.72	-13.00	-48.27
250.19	-60.00	-56.19	-1.58	-2.23	-13.00	-47.00
711.91	-64.10	-58.87	-1.33	-3.90	-13.00	-51.10
775.93	-63.68	-57.63	-1.56	-4.49	-13.00	-50.68
1663.00	-62.77	-64.59	9.43	-7.61	-13.00	-49.77

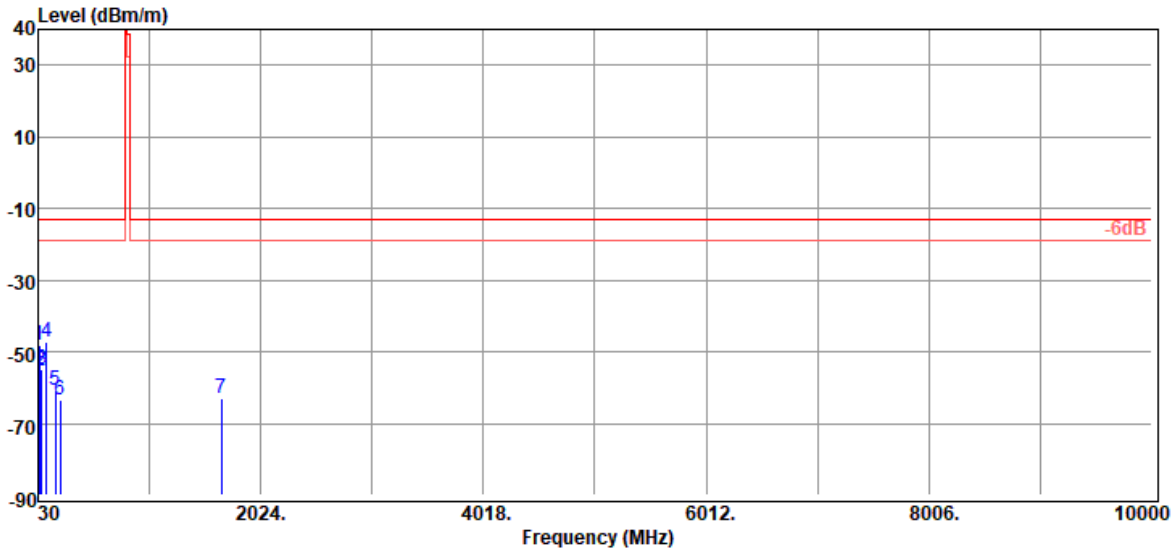
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Report Number :E2/2019/A0029
Operation Mode :LTE B26
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :836.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-48.33	-28.25	-19.25	-0.83	-13.00	-35.33
56.19	-55.54	-38.34	-16.25	-0.95	-13.00	-42.54
65.89	-54.78	-40.48	-13.30	-1.00	-13.00	-41.78
103.72	-47.06	-39.05	-6.64	-1.37	-13.00	-34.06
183.26	-60.76	-55.13	-3.85	-1.78	-13.00	-47.76
231.76	-63.52	-59.80	-1.52	-2.20	-13.00	-50.52
1673.00	-63.16	-65.01	9.53	-7.68	-13.00	-50.16

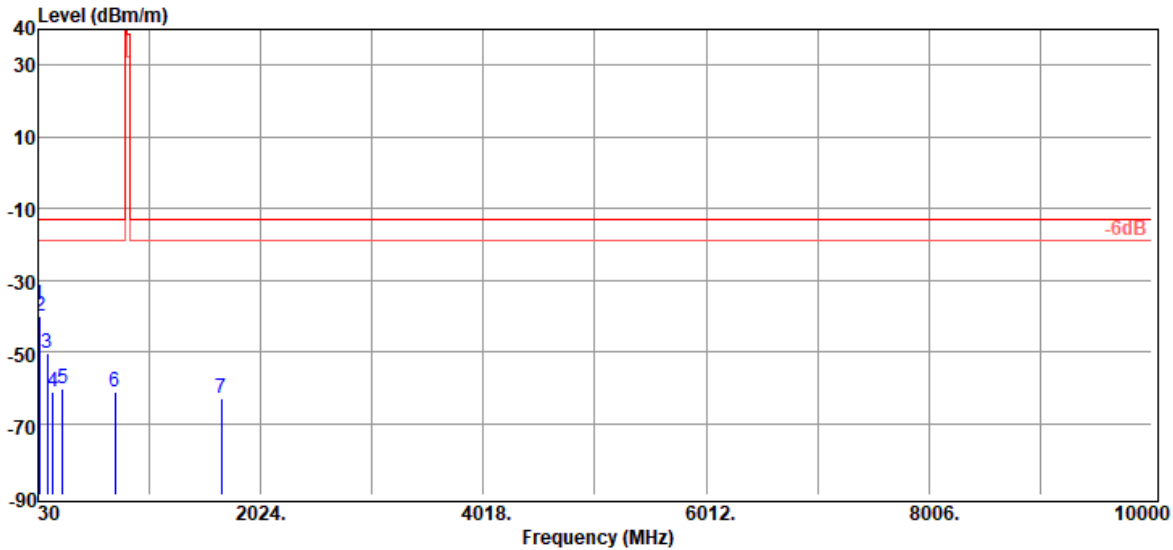
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Report Number :E2/2019/A0029
Operation Mode :LTE B26
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :836.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-37.12	-16.10	-20.36	-0.66	-13.00	-24.12
45.52	-40.06	-20.82	-18.38	-0.86	-13.00	-27.06
116.33	-50.27	-41.69	-7.13	-1.45	-13.00	-37.27
163.86	-61.32	-52.96	-6.66	-1.70	-13.00	-48.32
251.16	-60.27	-56.48	-1.56	-2.23	-13.00	-47.27
719.67	-61.43	-56.14	-1.39	-3.90	-13.00	-48.43
1673.00	-63.20	-65.05	9.53	-7.68	-13.00	-50.20

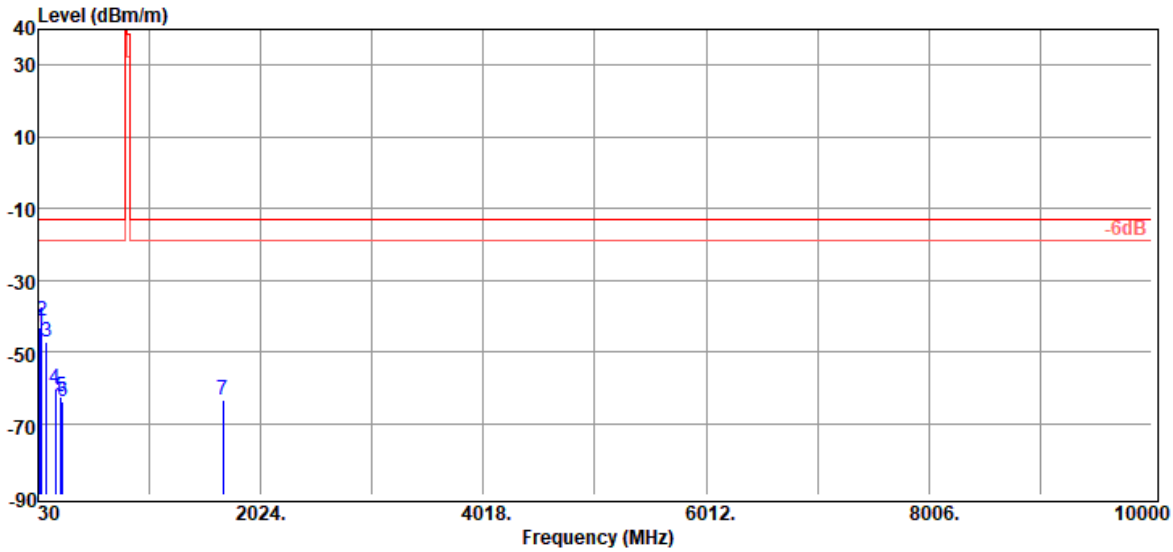
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Report Number :E2/2019/A0029
Operation Mode :LTE B26
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :841.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-43.37	-24.22	-18.29	-0.86	-13.00	-30.37
61.04	-41.50	-25.58	-14.92	-1.00	-13.00	-28.50
103.72	-47.15	-39.14	-6.64	-1.37	-13.00	-34.15
182.29	-60.33	-54.56	-4.00	-1.77	-13.00	-47.33
235.64	-62.77	-58.82	-1.74	-2.21	-13.00	-49.77
251.16	-63.84	-60.05	-1.56	-2.23	-13.00	-50.84
1683.00	-63.63	-65.52	9.63	-7.74	-13.00	-50.63

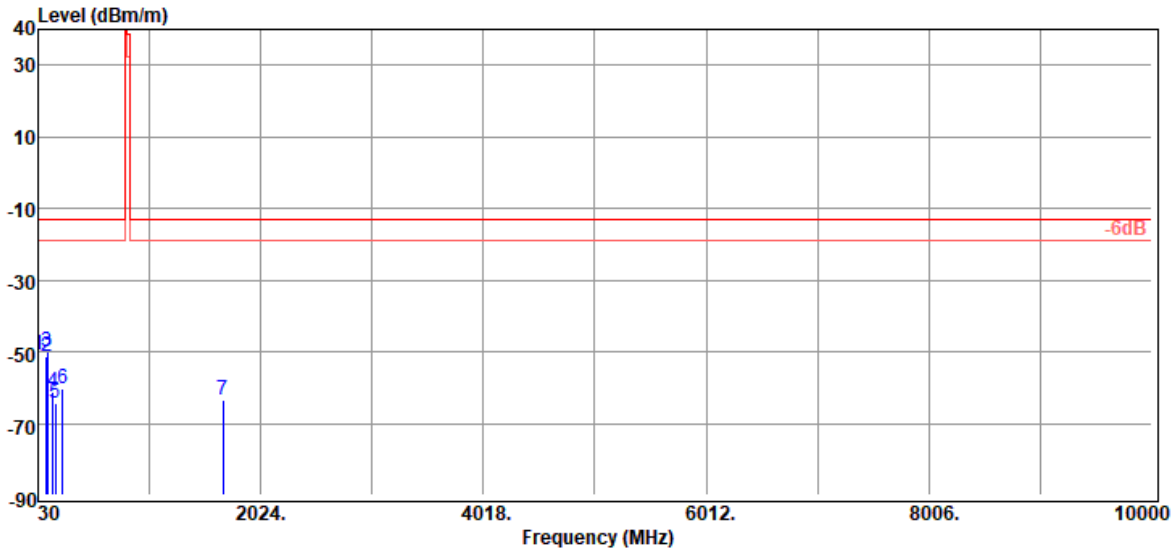
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Report Number :E2/2019/A0029
Operation Mode :LTE B26
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :841.5 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-50.82	-29.31	-20.90	-0.61	-13.00	-37.82
103.72	-51.33	-43.32	-6.64	-1.37	-13.00	-38.33
116.33	-50.05	-41.47	-7.13	-1.45	-13.00	-37.05
165.80	-61.39	-53.13	-6.55	-1.71	-13.00	-48.39
182.29	-64.24	-58.47	-4.00	-1.77	-13.00	-51.24
251.16	-60.10	-56.31	-1.56	-2.23	-13.00	-47.10
1683.00	-63.52	-65.41	9.63	-7.74	-13.00	-50.52

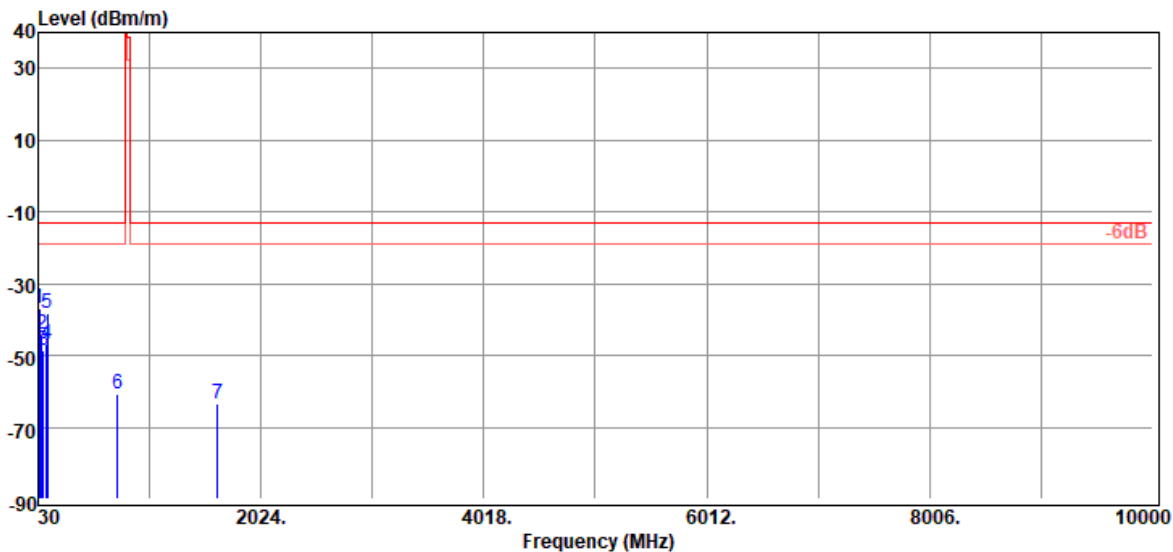
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Radiated Spurious Emission Measurement Result: LTE Band 26 Mode (Part 90)

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B26 Part 90	Temp./Humi.	:23.5/57
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:819 MHz		



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
38.73	-36.91	-16.83	-19.25	-0.83	-13.00	-23.91
60.07	-43.92	-27.66	-15.26	-1.00	-13.00	-30.92
74.62	-48.66	-37.43	-10.16	-1.07	-13.00	-35.66
104.69	-46.72	-38.55	-6.78	-1.39	-13.00	-33.72
114.39	-38.06	-29.50	-7.11	-1.45	-13.00	-25.06
739.07	-60.73	-55.00	-1.53	-4.20	-13.00	-47.73
1638.00	-63.24	-65.04	9.25	-7.45	-13.00	-50.24

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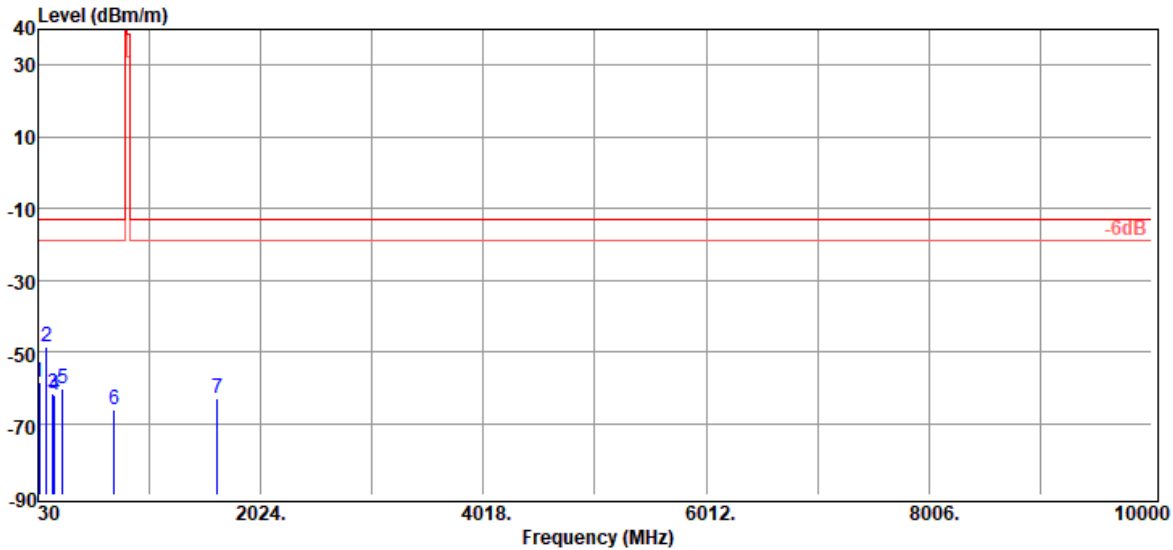
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Report Number :E2/2019/A0029
Operation Mode :LTE B26 Part 30
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :819 MHz

Test Date :2019-11-21
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-58.37	-38.22	-19.35	-0.80	-13.00	-45.37
103.72	-48.79	-40.78	-6.64	-1.37	-13.00	-35.79
164.83	-61.61	-53.30	-6.60	-1.71	-13.00	-48.61
174.53	-62.26	-55.07	-5.45	-1.74	-13.00	-49.26
251.16	-60.33	-56.54	-1.56	-2.23	-13.00	-47.33
711.91	-65.94	-60.71	-1.33	-3.90	-13.00	-52.94
1638.00	-62.90	-64.70	9.25	-7.45	-13.00	-49.90

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Radiated Spurious Emission Measurement Result: LTE Band 30 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-20

Operation Mode :LTE B30

Temp./Humi. :23.5/57

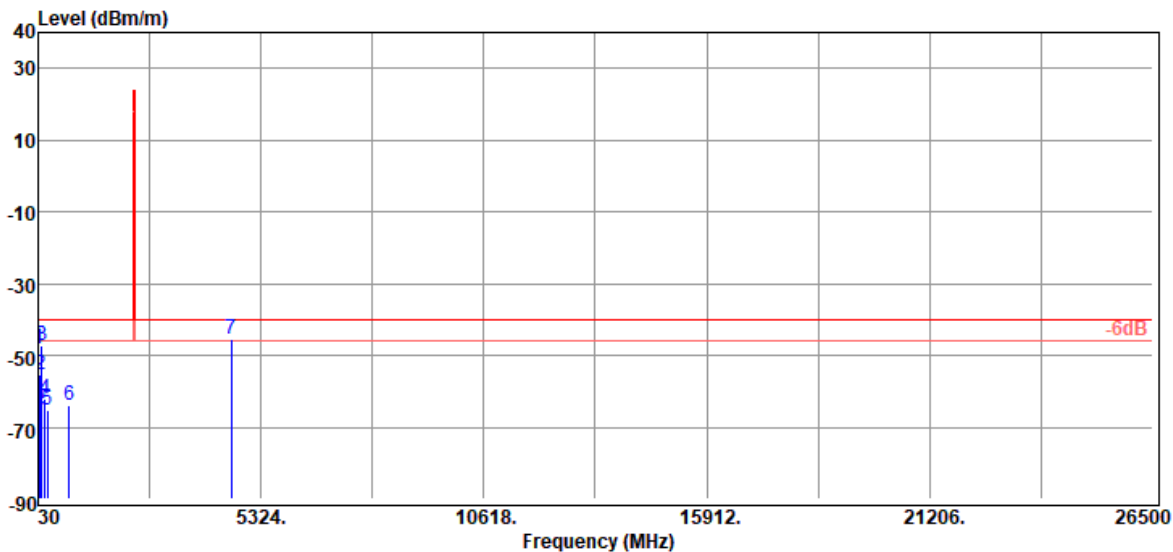
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :2307.5 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
48.43	-48.02	-29.27	-17.89	-0.86	-40.00	-8.02
83.35	-55.19	-46.58	-7.45	-1.16	-40.00	-15.19
116.33	-47.24	-38.66	-7.13	-1.45	-40.00	-7.24
183.26	-62.13	-56.50	-3.85	-1.78	-40.00	-22.13
255.04	-65.18	-61.42	-1.51	-2.25	-40.00	-25.18
762.35	-64.13	-58.16	-1.70	-4.27	-40.00	-24.13
4615.00	-45.33	-46.72	12.54	-11.15	-40.00	-5.33

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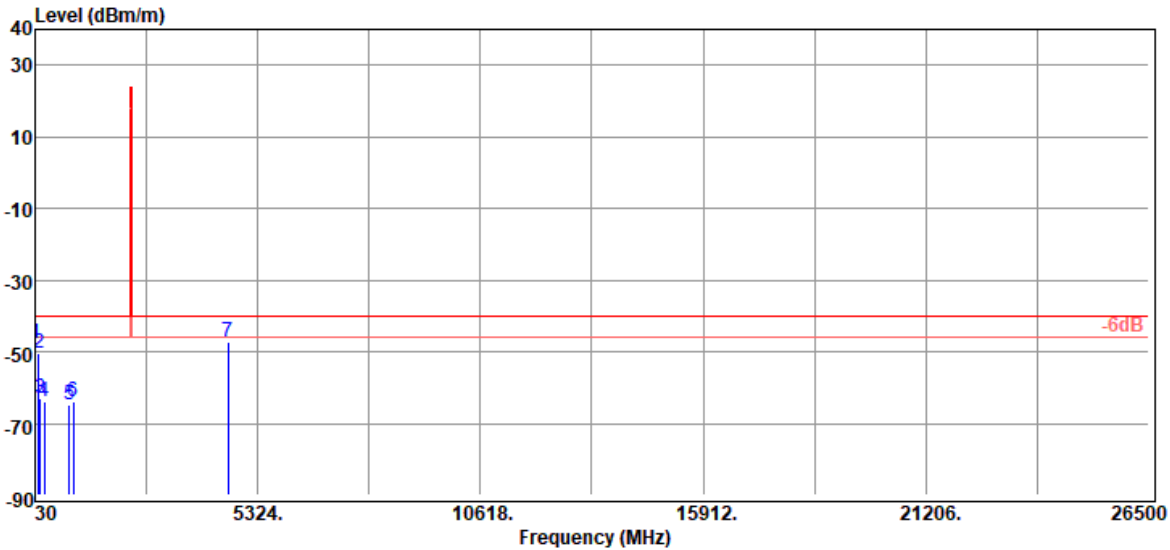
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Report Number :E2/2019/A0029
Operation Mode :LTE B30
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :2307.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-47.90	-28.02	-19.02	-0.86	-40.00	-7.90
116.33	-50.31	-41.73	-7.13	-1.45	-40.00	-10.31
163.86	-63.14	-54.78	-6.66	-1.70	-40.00	-23.14
250.19	-63.72	-59.91	-1.58	-2.23	-40.00	-23.72
835.10	-64.65	-58.70	-1.41	-4.54	-40.00	-24.65
947.62	-64.11	-57.65	-1.66	-4.80	-40.00	-24.11
4615.00	-47.17	-48.56	12.54	-11.15	-40.00	-7.17

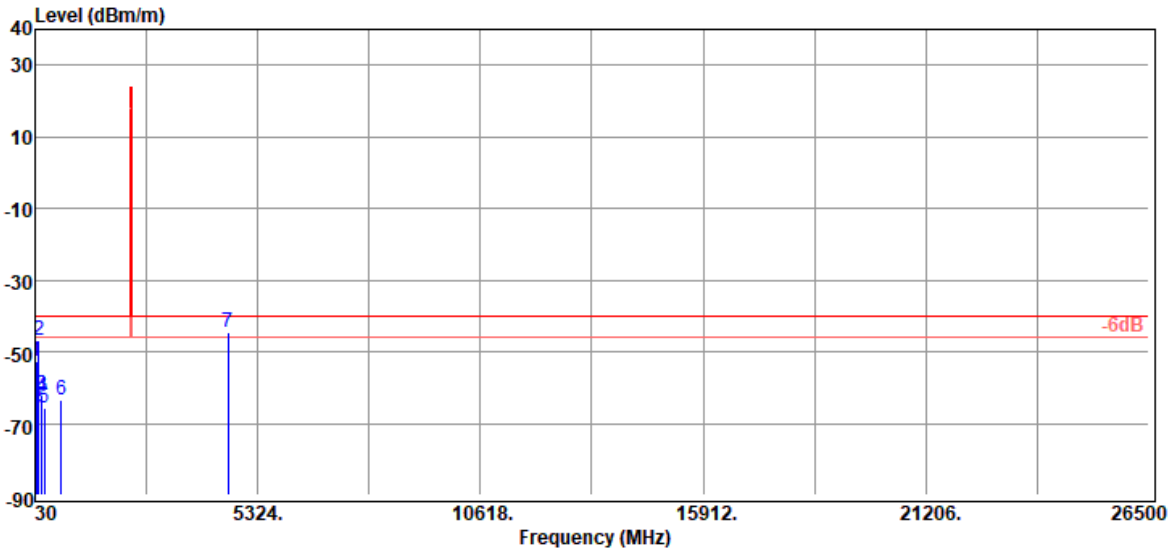
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Report Number :E2/2019/A0029
Operation Mode :LTE B30
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :2310 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-52.60	-36.68	-14.92	-1.00	-40.00	-12.60
115.36	-46.80	-38.21	-7.14	-1.45	-40.00	-6.80
183.26	-61.89	-56.26	-3.85	-1.78	-40.00	-21.89
200.72	-62.76	-58.59	-2.09	-2.08	-40.00	-22.76
245.34	-65.52	-61.54	-1.75	-2.23	-40.00	-25.52
650.80	-63.63	-58.54	-1.30	-3.79	-40.00	-23.63
4620.00	-44.35	-45.70	12.52	-11.17	-40.00	-4.35

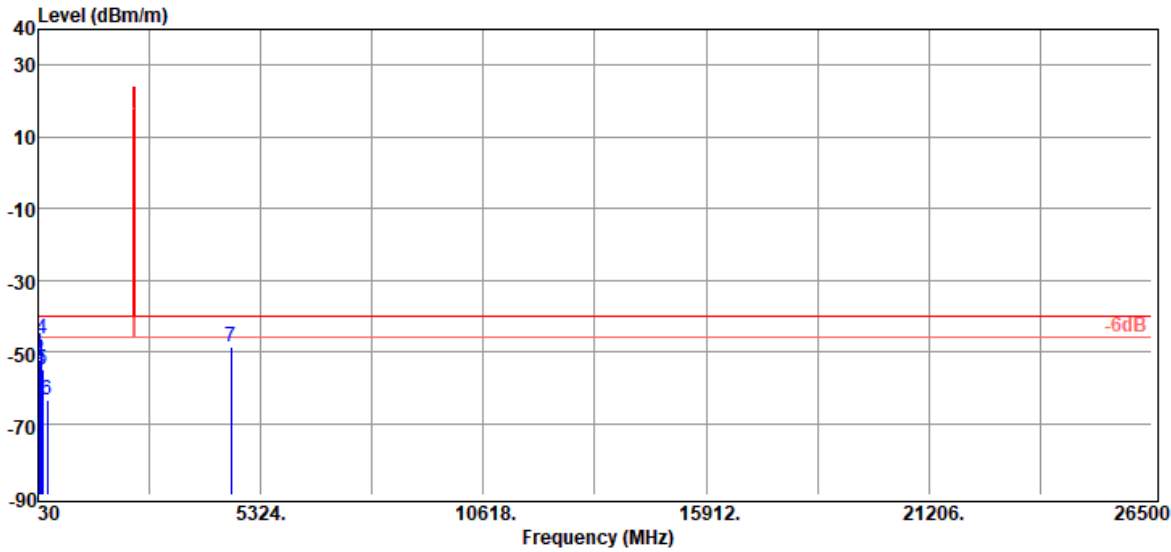
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Report Number :E2/2019/A0029
Operation Mode :LTE B30
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :2310 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-50.42	-30.75	-18.81	-0.86	-40.00	-10.42
55.22	-52.20	-34.79	-16.48	-0.93	-40.00	-12.20
81.41	-55.44	-46.34	-7.94	-1.16	-40.00	-15.44
108.57	-46.45	-38.04	-6.98	-1.43	-40.00	-6.45
135.73	-54.72	-45.50	-7.56	-1.66	-40.00	-14.72
251.16	-63.28	-59.49	-1.56	-2.23	-40.00	-23.28
4620.00	-48.61	-49.96	12.52	-11.17	-40.00	-8.61

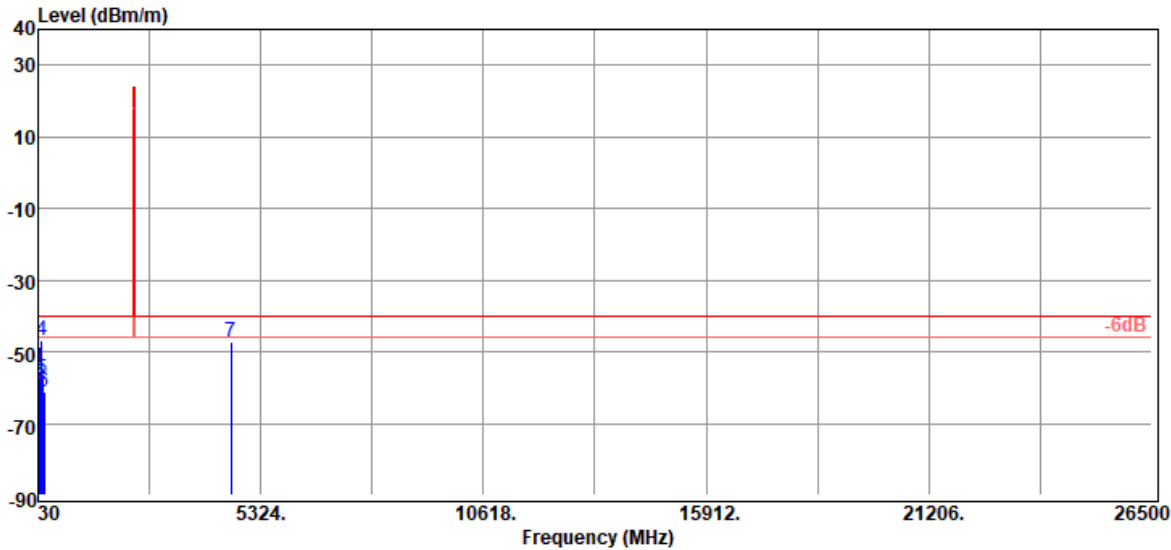
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Report Number :E2/2019/A0029
Operation Mode :LTE B30
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :2312.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-54.29	-33.74	-19.84	-0.71	-40.00	-14.29
49.40	-58.03	-39.44	-17.73	-0.86	-40.00	-18.03
76.56	-59.69	-49.10	-9.49	-1.10	-40.00	-19.69
116.33	-46.84	-38.26	-7.13	-1.45	-40.00	-6.84
136.70	-57.67	-48.41	-7.60	-1.66	-40.00	-17.67
182.29	-61.34	-55.57	-4.00	-1.77	-40.00	-21.34
4625.00	-47.07	-48.38	12.50	-11.19	-40.00	-7.07

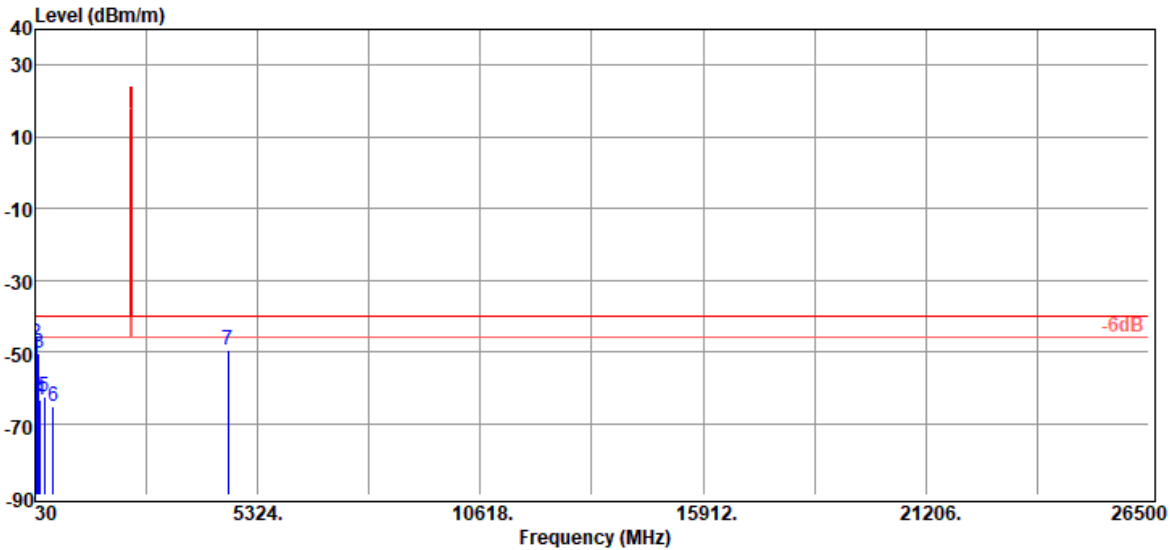
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Report Number :E2/2019/A0029
Operation Mode :LTE B30
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :2312.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-51.69	-31.29	-19.64	-0.76	-40.00	-11.69
64.92	-47.90	-33.19	-13.71	-1.00	-40.00	-7.90
115.36	-50.37	-41.78	-7.14	-1.45	-40.00	-10.37
160.95	-63.31	-54.72	-6.90	-1.69	-40.00	-23.31
249.22	-62.45	-58.61	-1.61	-2.23	-40.00	-22.45
459.71	-65.39	-60.71	-1.29	-3.39	-40.00	-25.39
4625.00	-49.48	-50.79	12.50	-11.19	-40.00	-9.48

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Radiated Spurious Emission Measurement Result: LTE Band 41 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-20

Operation Mode :LTE B41

Temp./Humi. :23.5/57

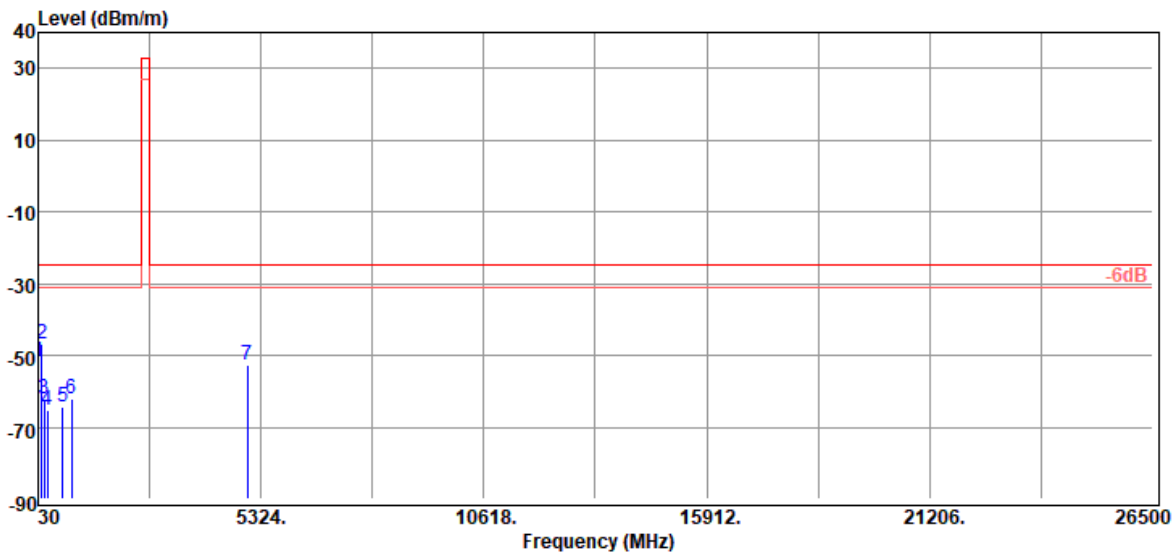
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :2503.5 MHz



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-51.72	-32.97	-17.89	-0.86	-25.00	-26.72
116.33	-46.74	-38.16	-7.13	-1.45	-25.00	-21.74
182.29	-62.06	-56.29	-4.00	-1.77	-25.00	-37.06
251.16	-65.30	-61.51	-1.56	-2.23	-25.00	-40.30
621.70	-64.32	-59.18	-1.57	-3.57	-25.00	-39.32
825.40	-62.08	-55.94	-1.60	-4.54	-25.00	-37.08
5007.00	-52.54	-53.61	12.49	-11.42	-25.00	-27.54

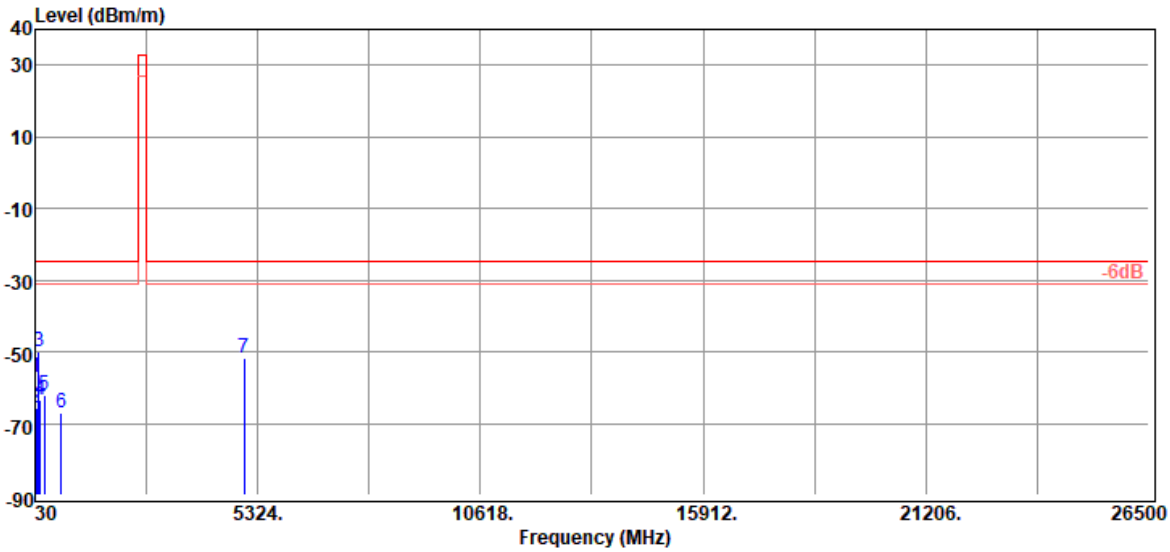
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Report Number :E2/2019/A0029
Operation Mode :LTE B41
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :2503.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-56.98	-36.83	-19.35	-0.80	-25.00	-31.98
57.16	-65.73	-48.71	-16.06	-0.96	-25.00	-40.73
115.36	-50.18	-41.59	-7.14	-1.45	-25.00	-25.18
161.92	-63.66	-55.12	-6.85	-1.69	-25.00	-38.66
249.22	-62.14	-58.30	-1.61	-2.23	-25.00	-37.14
644.98	-66.85	-61.54	-1.35	-3.96	-25.00	-41.85
5007.00	-51.90	-52.97	12.49	-11.42	-25.00	-26.90

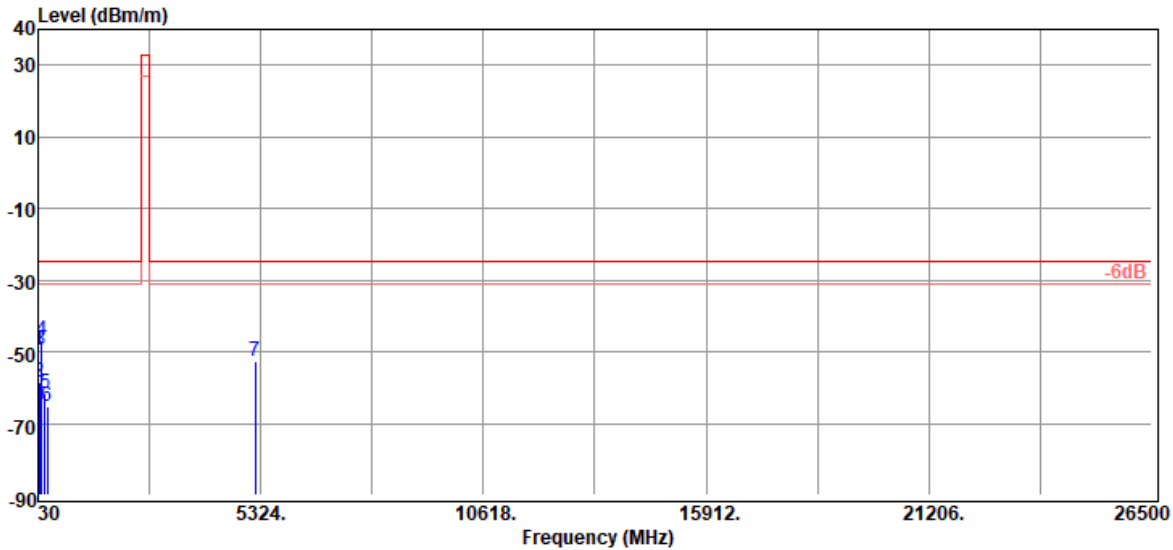
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Report Number :E2/2019/A0029
Operation Mode :LTE B41
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :2593 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.63	-30.70	-18.07	-0.86	-25.00	-24.63
56.19	-58.32	-41.12	-16.25	-0.95	-25.00	-33.32
104.69	-49.59	-41.42	-6.78	-1.39	-25.00	-24.59
116.33	-46.79	-38.21	-7.13	-1.45	-25.00	-21.79
183.26	-61.75	-56.12	-3.85	-1.78	-25.00	-36.75
251.16	-65.45	-61.66	-1.56	-2.23	-25.00	-40.45
5186.00	-52.88	-53.56	12.64	-11.96	-25.00	-27.88

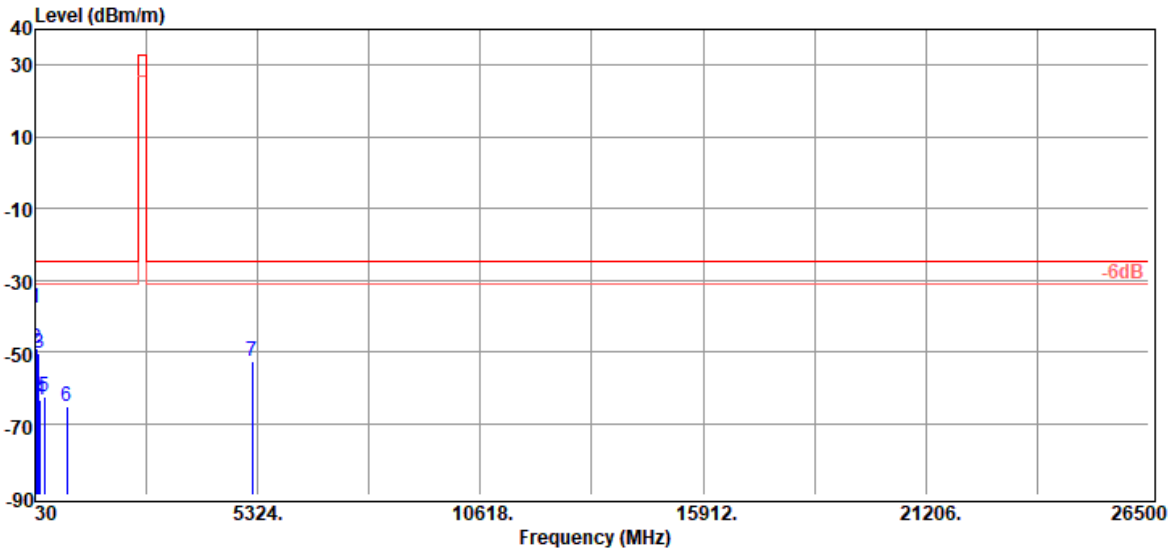
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Report Number :E2/2019/A0029
Operation Mode :LTE B41
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :2593 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-37.99	-17.78	-19.43	-0.78	-25.00	-12.99
49.40	-48.93	-30.34	-17.73	-0.86	-25.00	-23.93
115.36	-50.23	-41.64	-7.14	-1.45	-25.00	-25.23
163.86	-63.45	-55.09	-6.66	-1.70	-25.00	-38.45
252.13	-62.45	-58.66	-1.55	-2.24	-25.00	-37.45
785.63	-65.40	-59.03	-1.73	-4.64	-25.00	-40.40
5186.00	-52.60	-53.28	12.64	-11.96	-25.00	-27.60

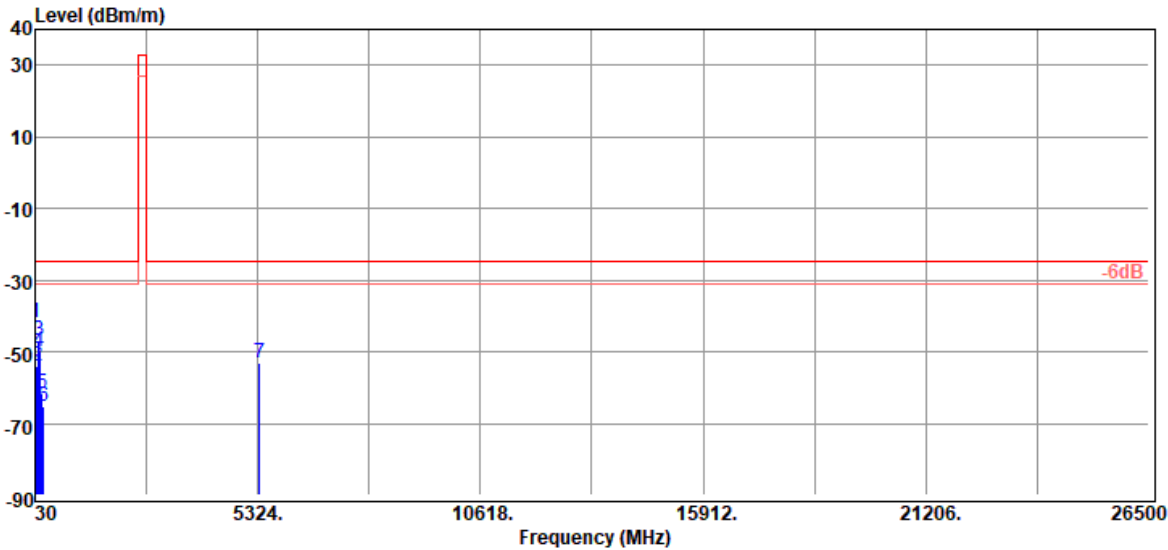
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Report Number :E2/2019/A0029
Operation Mode :LTE B41
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :2682.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-41.86	-21.87	-19.14	-0.85	-25.00	-16.86
82.38	-54.23	-45.39	-7.68	-1.16	-25.00	-29.23
116.33	-46.72	-38.14	-7.13	-1.45	-25.00	-21.72
140.58	-50.11	-40.81	-7.64	-1.66	-25.00	-25.11
183.26	-61.62	-55.99	-3.85	-1.78	-25.00	-36.62
237.58	-65.25	-61.25	-1.78	-2.22	-25.00	-40.25
5365.00	-52.91	-54.89	13.44	-11.46	-25.00	-27.91

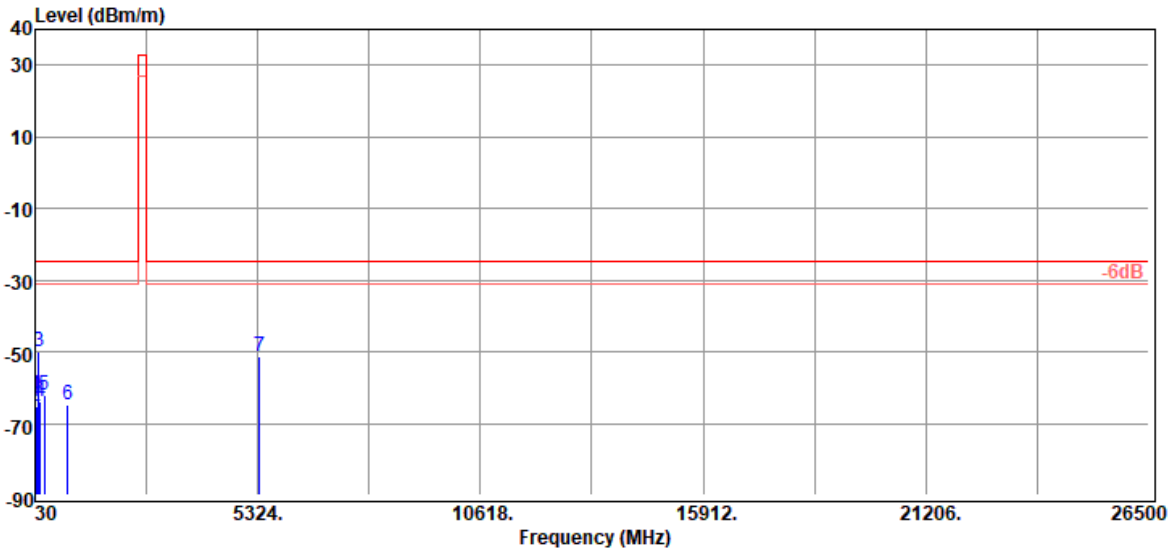
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Operation Mode :LTE B41
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :2682.5 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-62.29	-41.79	-19.77	-0.73	-25.00	-37.29
56.19	-65.15	-47.95	-16.25	-0.95	-25.00	-40.15
116.33	-50.18	-41.60	-7.13	-1.45	-25.00	-25.18
163.86	-63.71	-55.35	-6.66	-1.70	-25.00	-38.71
249.22	-62.28	-58.44	-1.61	-2.23	-25.00	-37.28
806.97	-64.68	-58.96	-1.50	-4.22	-25.00	-39.68
5365.00	-51.47	-53.45	13.44	-11.46	-25.00	-26.47

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Radiated Spurious Emission Measurement Result: LTE Band 66 Mode

Report Number :E2/2019/A0029

Test Date :2019-11-20

Operation Mode :LTE B66

Temp./Humi. :23.5/57

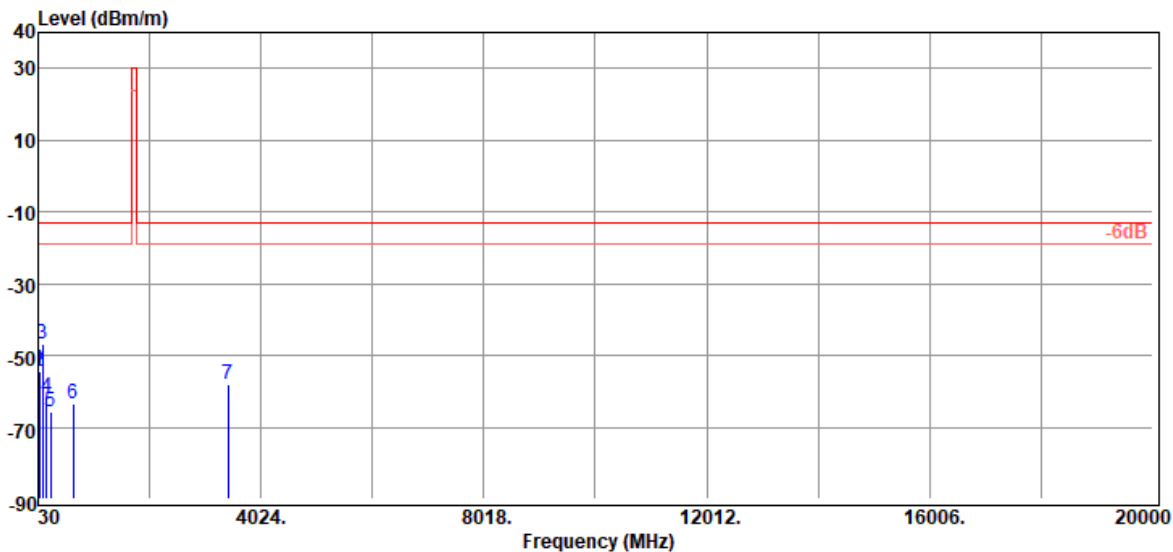
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Enzo

Test Channel :1720 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.82	-54.14	-33.74	-19.64	-0.76	-13.00	-41.14
52.31	-54.41	-36.38	-17.14	-0.89	-13.00	-41.41
116.33	-46.76	-38.18	-7.13	-1.45	-13.00	-33.76
183.26	-61.48	-55.85	-3.85	-1.78	-13.00	-48.48
251.16	-65.53	-61.74	-1.56	-2.23	-13.00	-52.53
663.41	-63.54	-58.49	-1.20	-3.85	-13.00	-50.54
3440.00	-57.93	-59.36	12.62	-11.19	-13.00	-44.93

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

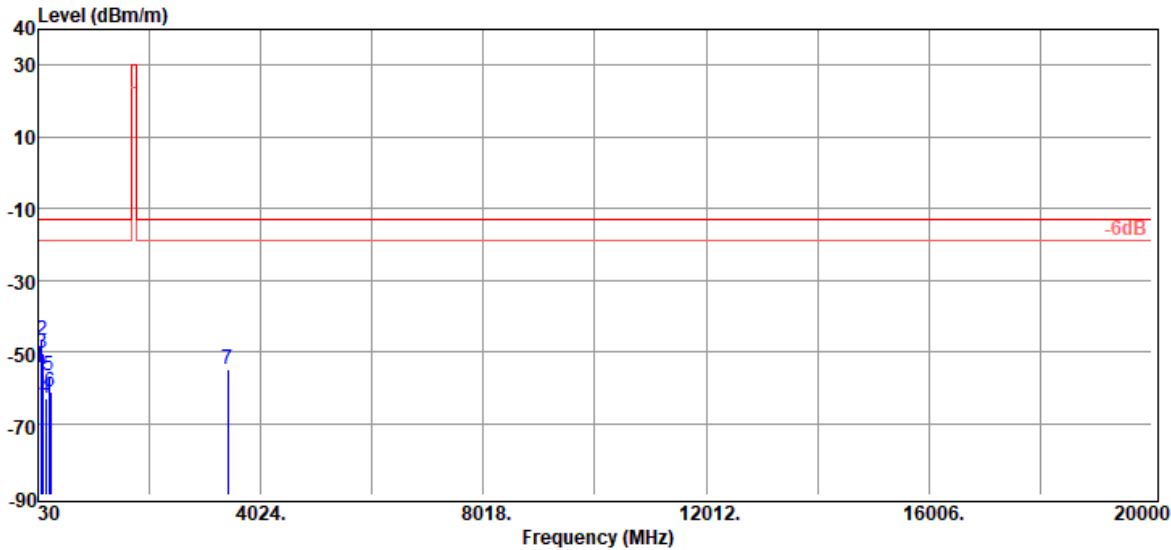
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :E2/2019/A0029
Operation Mode :LTE B66
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :1720 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-54.67	-34.59	-19.25	-0.83	-13.00	-41.67
99.84	-46.64	-39.09	-6.22	-1.33	-13.00	-33.64
115.36	-50.44	-41.85	-7.14	-1.45	-13.00	-37.44
161.92	-63.00	-54.46	-6.85	-1.69	-13.00	-50.00
225.94	-56.75	-53.32	-1.24	-2.19	-13.00	-43.75
247.28	-61.40	-57.49	-1.68	-2.23	-13.00	-48.40
3440.00	-55.05	-56.48	12.62	-11.19	-13.00	-42.05

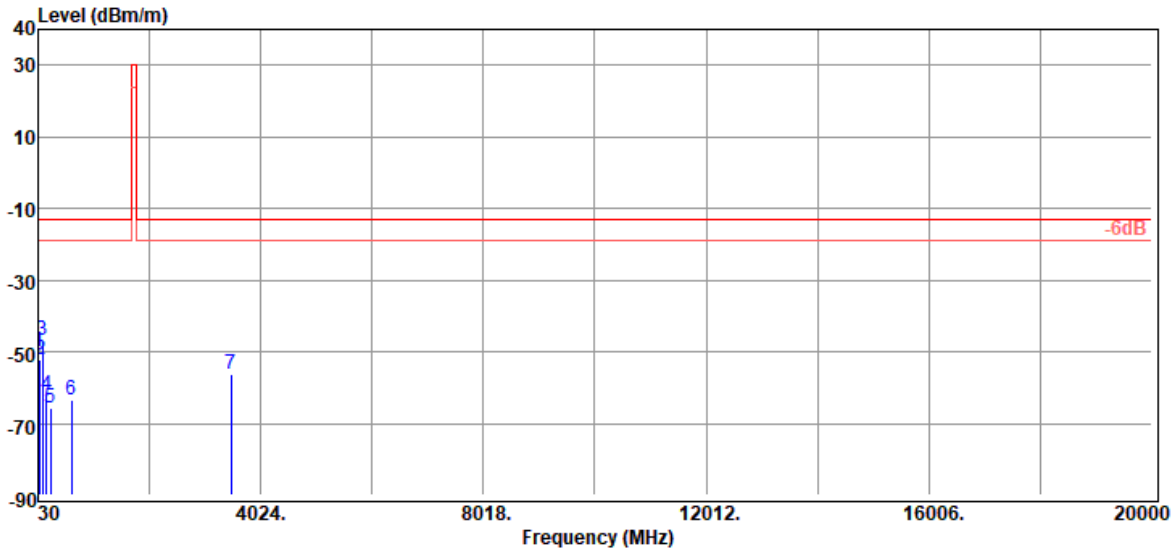
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Report Number :E2/2019/A0029
Operation Mode :LTE B66
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1745 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-49.84	-30.06	-18.92	-0.86	-13.00	-36.84
67.83	-52.16	-38.33	-12.83	-1.00	-13.00	-39.16
115.36	-46.70	-38.11	-7.14	-1.45	-13.00	-33.70
183.26	-62.09	-56.46	-3.85	-1.78	-13.00	-49.09
248.25	-65.73	-61.86	-1.64	-2.23	-13.00	-52.73
631.40	-63.68	-58.50	-1.53	-3.65	-13.00	-50.68
3490.00	-56.24	-57.73	12.36	-10.87	-13.00	-43.24

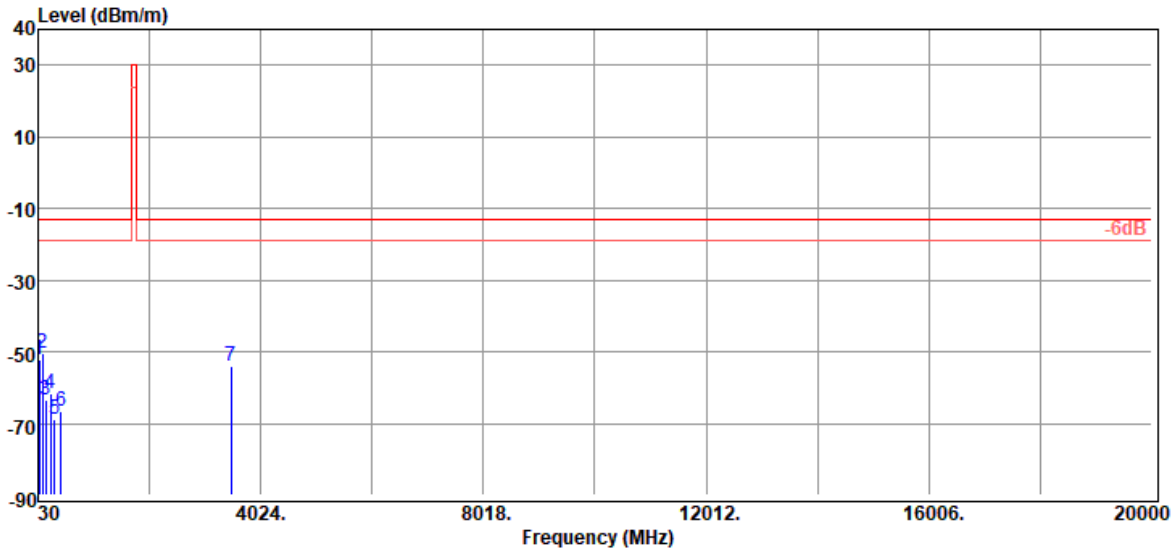
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Report Number :E2/2019/A0029
Operation Mode :LTE B66
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :1745 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-52.06	-32.91	-18.29	-0.86	-13.00	-39.06
115.36	-50.22	-41.63	-7.14	-1.45	-13.00	-37.22
162.89	-63.49	-54.98	-6.81	-1.70	-13.00	-50.49
250.19	-61.86	-58.05	-1.58	-2.23	-13.00	-48.86
331.67	-69.01	-64.77	-1.59	-2.65	-13.00	-56.01
437.40	-66.82	-62.48	-1.37	-2.97	-13.00	-53.82
3490.00	-54.01	-55.50	12.36	-10.87	-13.00	-41.01

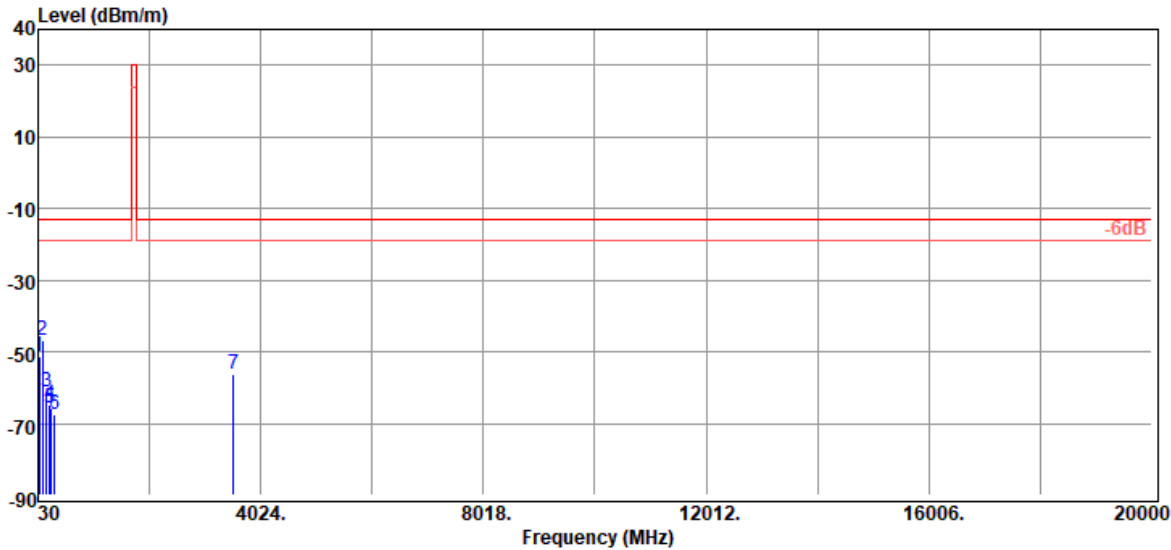
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Report Number :E2/2019/A0029
Operation Mode :LTE B66
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1770 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-51.34	-33.13	-17.33	-0.88	-13.00	-38.34
115.36	-46.78	-38.19	-7.14	-1.45	-13.00	-33.78
185.20	-61.35	-55.97	-3.57	-1.81	-13.00	-48.35
235.64	-64.78	-60.83	-1.74	-2.21	-13.00	-51.78
250.19	-65.76	-61.95	-1.58	-2.23	-13.00	-52.76
322.94	-67.64	-63.39	-1.53	-2.72	-13.00	-54.64
3540.00	-56.18	-57.49	12.30	-10.99	-13.00	-43.18

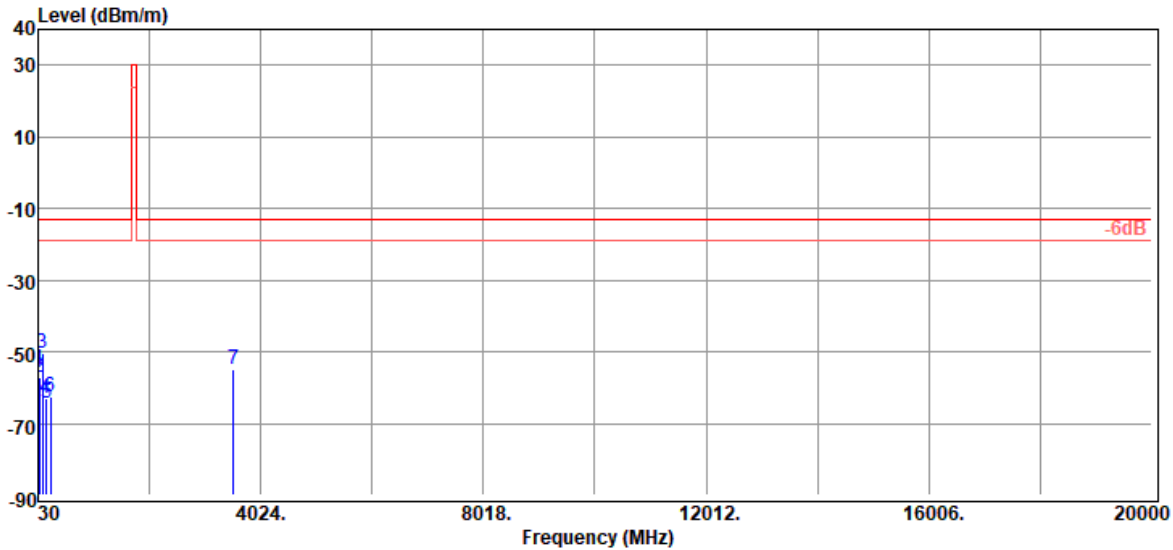
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Report Number :E2/2019/A0029
Operation Mode :LTE B66
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :1770 MHz

Test Date :2019-11-20
Temp./Humi. :23.5/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-54.78	-35.00	-18.92	-0.86	-13.00	-41.78
51.34	-57.33	-39.12	-17.33	-0.88	-13.00	-44.33
116.33	-50.30	-41.72	-7.13	-1.45	-13.00	-37.30
162.89	-63.07	-54.56	-6.81	-1.70	-13.00	-50.07
179.38	-64.51	-58.25	-4.52	-1.74	-13.00	-51.51
251.16	-62.68	-58.89	-1.56	-2.23	-13.00	-49.68
3540.00	-55.06	-56.37	12.30	-10.99	-13.00	-42.06

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Radiated Spurious Emission Measurement Result: LTE Band 71 Mode

Report Number :E2/2019/A0029

Test Date :2019-12-12

Operation Mode :LTE B71

Temp./Humi. :24.0/44

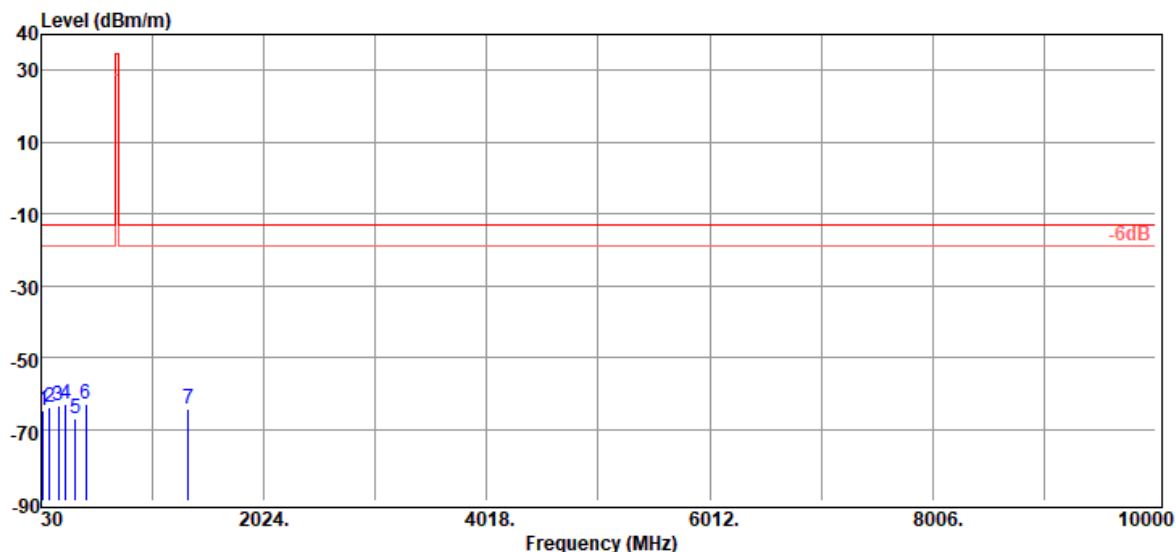
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Ashton

Test Channel :673 MHz



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
49.40	-64.87	-46.28	-17.73	-0.86	-13.00	-51.87
107.60	-63.94	-55.56	-6.96	-1.42	-13.00	-50.94
182.29	-63.58	-57.81	-4.00	-1.77	-13.00	-50.58
252.13	-63.17	-59.38	-1.55	-2.24	-13.00	-50.17
334.58	-67.13	-62.85	-1.63	-2.65	-13.00	-54.13
431.58	-62.88	-58.34	-1.44	-3.10	-13.00	-49.88
1346.00	-64.41	-64.63	6.52	-6.30	-13.00	-51.41

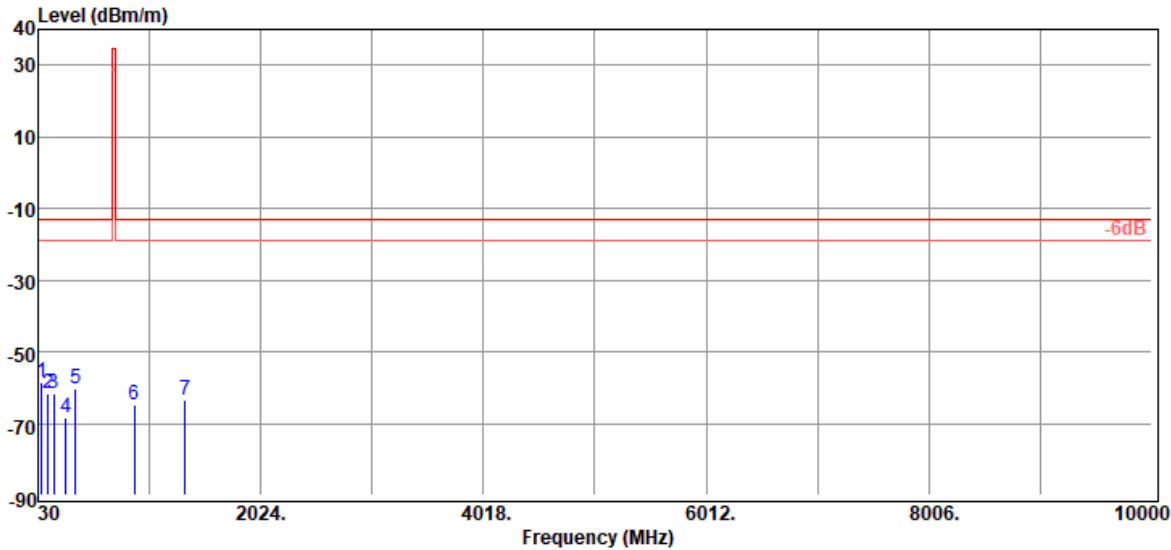
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Report Number :E2/2019/A0029
Operation Mode :LTE B71
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Channel :673 MHz

Test Date :2019-12-12
Temp./Humi. :24.0/44
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.98	-58.63	-43.37	-14.26	-1.00	-13.00	-45.63
120.21	-61.63	-53.12	-7.06	-1.45	-13.00	-48.63
167.74	-61.63	-53.45	-6.45	-1.73	-13.00	-48.63
281.23	-68.25	-64.14	-1.69	-2.42	-13.00	-55.25
363.68	-60.22	-56.05	-1.47	-2.70	-13.00	-47.22
891.36	-64.76	-58.71	-1.44	-4.61	-13.00	-51.76
1346.00	-63.30	-63.52	6.52	-6.30	-13.00	-50.30

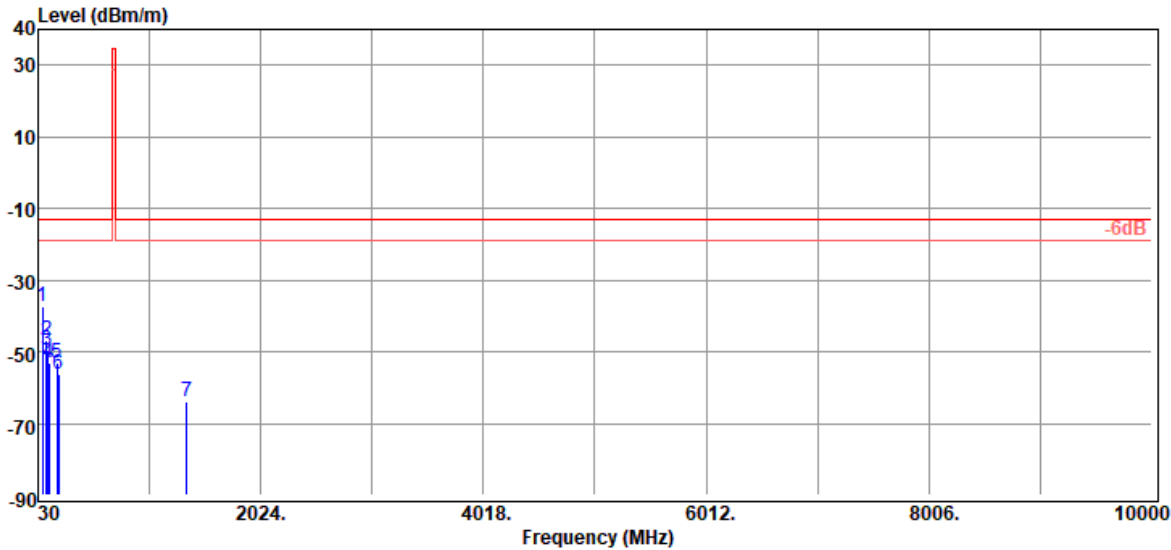
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Report Number :E2/2019/A0029
Operation Mode :LTE B71
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :680.5 MHz

Test Date :2019-12-12
Temp./Humi. :24.1/44
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-37.29	-23.24	-13.05	-1.00	-13.00	-24.29
103.72	-46.73	-38.72	-6.64	-1.37	-13.00	-33.73
115.36	-49.62	-41.03	-7.14	-1.45	-13.00	-36.62
130.88	-53.32	-44.37	-7.29	-1.66	-13.00	-40.32
197.81	-53.25	-48.98	-2.24	-2.03	-13.00	-40.25
217.21	-56.25	-52.74	-1.35	-2.16	-13.00	-43.25
1361.00	-64.05	-64.30	6.61	-6.36	-13.00	-51.05

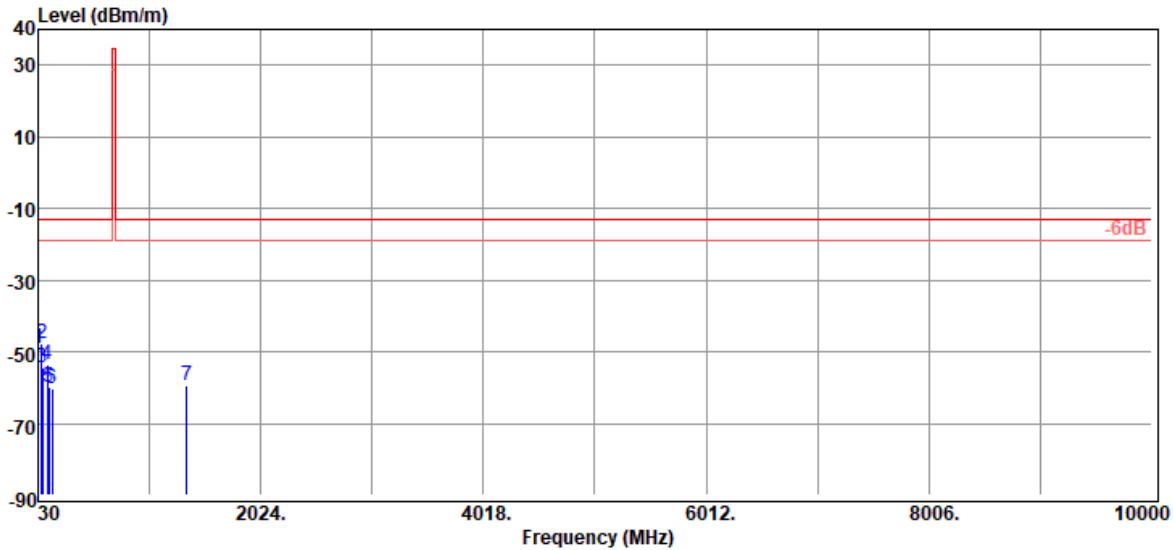
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Report Number :E2/2019/A0029
Operation Mode :LTE B71
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :680.5 MHz

Test Date :2019-12-12
Temp./Humi. :24.1/44
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-48.85	-28.64	-19.43	-0.78	-13.00	-35.85
62.98	-47.73	-32.47	-14.26	-1.00	-13.00	-34.73
71.71	-54.33	-41.92	-11.38	-1.03	-13.00	-41.33
111.48	-53.36	-44.82	-7.09	-1.45	-13.00	-40.36
126.03	-59.94	-51.23	-7.13	-1.58	-13.00	-46.94
153.19	-60.17	-51.25	-7.24	-1.68	-13.00	-47.17
1361.00	-59.38	-59.63	6.61	-6.36	-13.00	-46.38

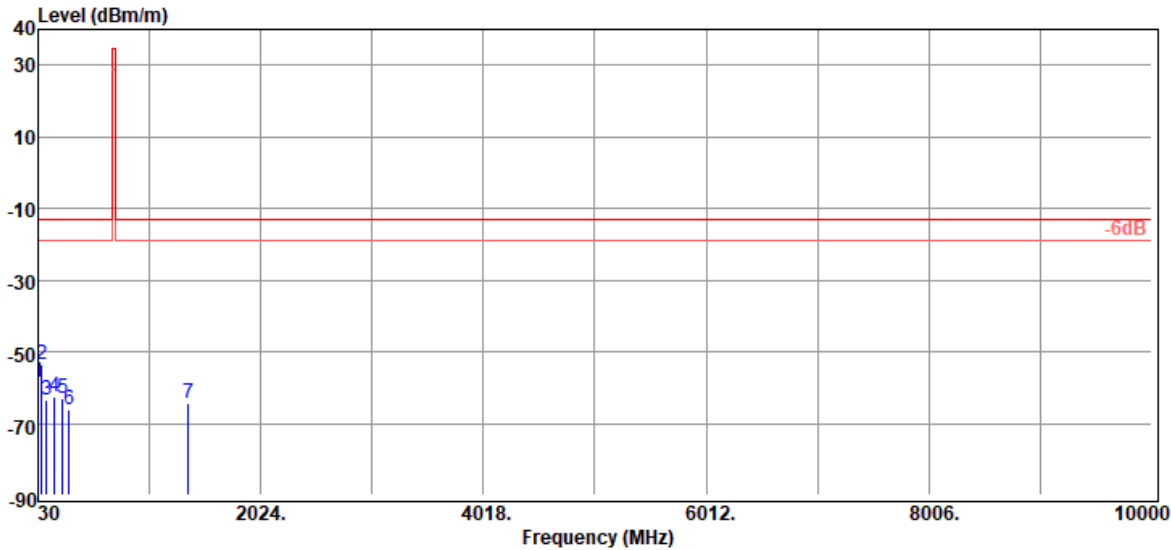
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Report Number :E2/2019/A0029
Operation Mode :LTE B71
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :688 MHz

Test Date :2019-12-12
Temp./Humi. :24.2/43
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-58.65	-37.88	-20.09	-0.68	-13.00	-45.65
62.98	-53.41	-38.15	-14.26	-1.00	-13.00	-40.41
107.60	-63.48	-55.10	-6.96	-1.42	-13.00	-50.48
179.38	-62.47	-56.21	-4.52	-1.74	-13.00	-49.47
250.19	-63.03	-59.22	-1.58	-2.23	-13.00	-50.03
307.42	-66.15	-61.98	-1.48	-2.69	-13.00	-53.15
1376.00	-64.39	-64.73	6.76	-6.42	-13.00	-51.39

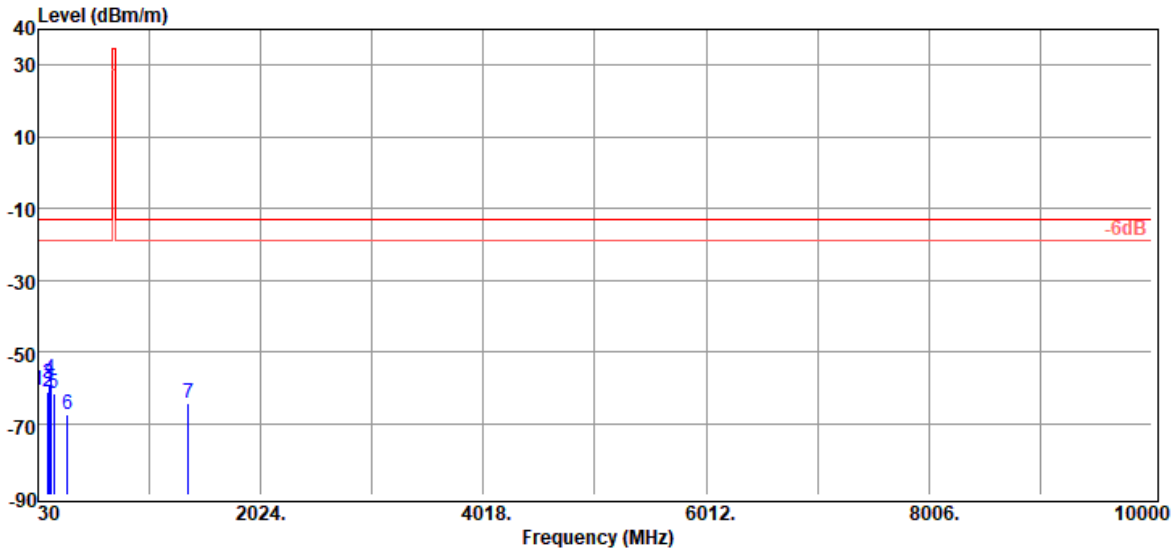
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Report Number :E2/2019/A0029
Operation Mode :LTE B71
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Channel :688 MHz

Test Date :2019-12-12
Temp./Humi. :24.2/43
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-60.68	-39.43	-20.62	-0.63	-13.00	-47.68
119.24	-61.15	-52.66	-7.04	-1.45	-13.00	-48.15
130.88	-59.06	-50.11	-7.29	-1.66	-13.00	-46.06
142.52	-57.59	-48.26	-7.66	-1.67	-13.00	-44.59
170.65	-61.52	-53.75	-6.03	-1.74	-13.00	-48.52
294.81	-67.44	-63.38	-1.55	-2.51	-13.00	-54.44
1376.00	-64.45	-64.79	6.76	-6.42	-13.00	-51.45

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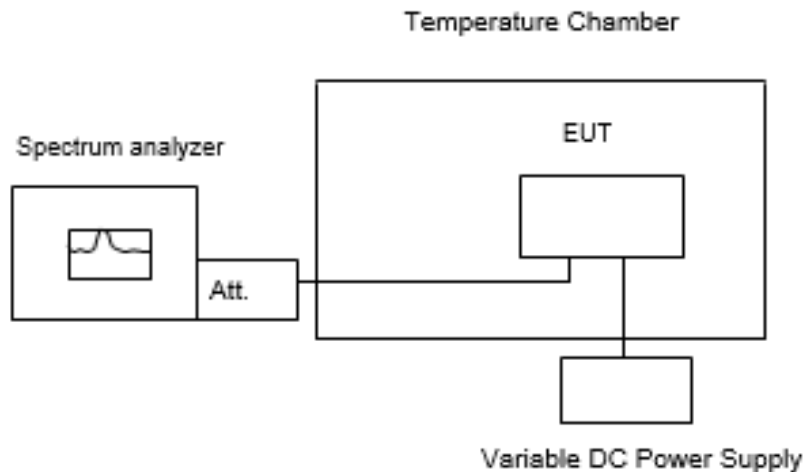
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10 FREQUENCY STABILITY MEASUREMENT

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.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF30	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Splitter	Woken	DOM35LW1A2	RF83	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A18 5C	RF229	11/20/2019	11/19/2020

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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10.5 Measurement Result

Note: The battery is rated 3.3V dc.

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
3.465	20	1880.000009	9	4700
3.3	20	1880.000006	6	4700
3.135	20	1880.000003	3	4700
3.1	20	1879.999996	-4	4700
FREQUENCY ERROR vs. Temp.				
3.3	50	1880.000007	7	4700
3.3	40	1880.000004	4	4700
3.3	30	1880	0	4700
3.3	20	1879.999998	-2	4700
3.3	10	1879.999996	-4	4700
3.3	0	1879.999994	-6	4700
3.3	-10	1879.999999	-1	4700
3.3	-20	1880.000001	1	4700
3.3	-30	1880.000003	3	4700

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WCDMA IV Mid Channel			1732.6	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
3.465	20	1732.600008	8	4331
3.3	20	1732.600003	3	4331
3.135	20	1732.600006	6	4331
3.1	20	1732.599999	-1	4331
FREQUENCY ERROR vs. Temp.				
3.3	50	1732.600007	7	4331
3.3	40	1732.600003	3	4331
3.3	30	1732.600005	5	4331
3.3	20	1732.600002	2	4331
3.3	10	1732.599997	-3	4331
3.3	0	1732.599995	-5	4331
3.3	-10	1732.599999	-1	4331
3.3	-20	1732.599996	-4	4331
3.3	-30	1732.6	0	4331
WCDMA V Mid Channel			836.6	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
3.465	20	836.60001	10	2091
3.3	20	836.600007	7	2091
3.135	20	836.600003	3	2091
3.1	20	836.599997	-3	2091
FREQUENCY ERROR vs. Temp.				
3.3	50	836.600008	8	2091
3.3	40	836.600004	4	2091
3.3	30	836.600001	1	2091
3.3	20	836.599997	-3	2091
3.3	10	836.599994	-6	2091
3.3	0	836.599999	-1	2091
3.3	-10	836.600002	2	2091
3.3	-20	836.599998	-2	2091
3.3	-30	836.599995	-5	2091

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Reference Freq.:		LTE B2 Mid Channel		1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	1880.000017	17	4700	
3.3	25	1880.000008	8	4700	
3.135	25	1880.000022	22	4700	
2.9 (End Point)	25	1880.000012	12	4700	
Freq. ERROR vs. Temp.					
3.3	-30	1879.999995	-5	4700	
3.3	-20	1879.999989	-11	4700	
3.3	-10	1879.999982	-18	4700	
3.3	0	1879.999981	-19	4700	
3.3	10	1880.000002	2	4700	
3.3	20	1879.999993	-7	4700	
3.3	30	1879.999980	-20	4700	
3.3	40	1879.999992	-8	4700	
3.3	50	1879.999992	-8	4700	
Reference Freq.:		LTE B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	1732.500021	21	4331	
3.3	25	1732.500008	8	4331	
3.135	25	1732.500008	8	4331	
2.9 (End Point)	25	1732.500011	11	4331	
Freq. ERROR vs. Temp.					
3.3	-30	1732.499997	-3	4331	
3.3	-20	1732.499998	-2	4331	
3.3	-10	1732.499983	-17	4331	
3.3	0	1732.499987	-13	4331	
3.3	10	1732.500006	6	4331	
3.3	20	1732.499988	-12	4331	
3.3	30	1732.499984	-16	4331	
3.3	40	1732.499994	-6	4331	
3.3	50	1732.499997	-3	4331	

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Reference Freq.:		LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	836.500017	17	2091	
3.3	25	836.500018	18	2091	
3.135	25	836.500005	5	2091	
2.9 (End Point)	25	836.500012	12	2091	
Freq. ERROR vs. Temp.					
3.3	-30	836.499993	-7	2091	
3.3	-20	836.499982	-18	2091	
3.3	-10	836.499981	-19	2091	
3.3	0	836.499986	-14	2091	
3.3	10	836.500015	15	2091	
3.3	20	836.499990	-10	2091	
3.3	30	836.499986	-14	2091	
3.3	40	836.499992	-8	2091	
3.3	50	836.499995	-5	2091	
Reference Freq.:		LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	2535.000018	18	6338	
3.3	25	2535.000007	7	6338	
3.135	25	2535.000011	11	6338	
2.9 (End Point)	25	2535.000007	7	6338	
Freq. ERROR vs. Temp.					
3.3	-30	2535.000001	1	6338	
3.3	-20	2534.999993	-7	6338	
3.3	-10	2534.999982	-18	6338	
3.3	0	2534.999980	-20	6338	
3.3	10	2535.000011	11	6338	
3.3	20	2534.999983	-17	6338	
3.3	30	2534.999981	-19	6338	
3.3	40	2534.999993	-7	6338	
3.3	50	2534.999989	-11	6338	

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Reference Freq.:		LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	707.500024	24	1769	
3.3	25	707.500008	8	1769	
3.135	25	707.500010	10	1769	
2.9 (End Point)	25	707.500006	6	1769	
Freq. ERROR vs. Temp.					
3.3	-30	707.499988	-12	1769	
3.3	-20	707.499991	-9	1769	
3.3	-10	707.499973	-27	1769	
3.3	0	707.499979	-21	1769	
3.3	10	707.500000	0	1769	
3.3	20	707.499983	-17	1769	
3.3	30	707.499986	-14	1769	
3.3	40	707.499992	-8	1769	
3.3	50	707.500000	0	1769	
Reference Freq.:		LTE B13 Mid Channel		782	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	782.000015	15	1955	
3.3	25	782.000017	17	1955	
3.135	25	782.000009	9	1955	
2.9 (End Point)	25	782.000015	15	1955	
Freq. ERROR vs. Temp.					
3.3	-30	781.999990	-10	1955	
3.3	-20	781.999986	-14	1955	
3.3	-10	781.999970	-30	1955	
3.3	0	781.999988	-12	1955	
3.3	10	782.000001	1	1955	
3.3	20	781.999993	-7	1955	
3.3	30	781.999982	-18	1955	
3.3	40	781.999997	-3	1955	
3.3	50	781.999989	-11	1955	

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Reference Freq.:		LTE B14 Mid Channel		793	MHz 10M QPSK CH 23330
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 1.25 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	793.000017	17	1983	
3.3	25	793.000006	6	1983	
3.135	25	793.000010	10	1983	
2.9 (End Point)	25	793.000008	8	1983	
Freq. ERROR vs. Temp.					
3.3	-30	792.999997	-3	1983	
3.3	-20	792.999996	-4	1983	
3.3	-10	792.999973	-27	1983	
3.3	0	792.999992	-8	1983	
3.3	10	793.000011	11	1983	
3.3	20	792.999991	-9	1983	
3.3	30	792.999993	-7	1983	
3.3	40	792.999992	-8	1983	
3.3	50	792.999987	-13	1983	
Reference Freq.:		LTE B25 Mid Channel		1882.5	MHz 20M QPSK CH 26365
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	1882.500019	19	4700	
3.3	25	1882.500003	3	4700	
3.135	25	1882.500008	8	4700	
2.9 (End Point)	25	1882.500017	17	4700	
Freq. ERROR vs. Temp.					
3.3	-30	1882.499997	-3	4700	
3.3	-20	1882.499998	-2	4700	
3.3	-10	1882.499968	-32	4700	
3.3	0	1882.499981	-19	4700	
3.3	10	1882.500005	5	4700	
3.3	20	1882.499979	-21	4700	
3.3	30	1882.499987	-13	4700	
3.3	40	1882.499992	-8	4700	
3.3	50	1882.499995	-5	4700	

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Reference Freq.:		LTE B26 Mid Channel		831.5	MHz 15M QPSK CH 26865
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	831.500019	19	2091	
3.3	25	831.500011	11	2091	
3.135	25	831.500016	16	2091	
2.9 (End Point)	25	831.500003	3	2091	
Freq. ERROR vs. Temp.					
3.3	-30	831.499999	-1	2091	
3.3	-20	831.499982	-18	2091	
3.3	-10	831.499970	-30	2091	
3.3	0	831.499984	-16	2091	
3.3	10	831.500004	4	2091	
3.3	20	831.499981	-19	2091	
3.3	30	831.499991	-9	2091	
3.3	40	831.499995	-5	2091	
3.3	50	831.500000	0	2091	

Reference Freq.:		Part 90 LTE B26 Mid Channel		819	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)					
3.465	25	819.000024	24	2048	
3.3	25	819.000005	5	2048	
3.135	25	819.000007	7	2048	
2.9 (End Point)	25	819.000009	9	2048	
Freq. ERROR vs. Temp.					
3.3	-30	818.999987	-13	2048	
3.3	-20	818.999998	-2	2048	
3.3	-10	818.999975	-25	2048	
3.3	0	818.999990	-10	2048	
3.3	10	819.000007	7	2048	
3.3	20	818.999985	-15	2048	
3.3	30	818.999991	-9	2048	
3.3	40	818.999992	-8	2048	
3.3	50	818.999994	-6	2048	

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Reference Freq.:		LTE B30 Mid Channel		2310 MHz	10M QPSK CH 27710
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	2310.000006	6	6488	
3.3	25	2310.000006	6	6488	
3.135	25	2310.000021	21	6488	
2.9 (End Point)	25	2310.000009	9	6488	
Freq. ERROR vs. Temp.					
3.3	-30	2309.999984	-16	6488	
3.3	-20	2309.999983	-17	6488	
3.3	-10	2309.999982	-18	6488	
3.3	0	2309.999988	-12	6488	
3.3	10	2310.000001	1	6488	
3.3	20	2309.999976	-24	6488	
3.3	30	2309.999997	-3	6488	
3.3	40	2309.999996	-4	6488	
3.3	50	2309.999999	-1	6488	

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					
3.465	25	2593.000014	14	6488	
3.3	25	2593.000020	20	6488	
3.135	25	2593.000011	11	6488	
2.9 (End Point)	25	2593.000006	6	6488	
Freq. ERROR vs. Temp.					
3.3	-30	2592.999993	-7	6488	
3.3	-20	2592.999999	-1	6488	
3.3	-10	2592.999975	-25	6488	
3.3	0	2592.999978	-22	6488	
3.3	10	2593.000004	4	6488	
3.3	20	2592.999990	-10	6488	
3.3	30	2592.999987	-13	6488	
3.3	40	2592.999992	-8	6488	
3.3	50	2593.000001	1	6488	

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Reference Freq.:		LTE B66 Mid Channel		1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
3.465	25	1745.000022	22	6488	
3.3	25	1745.000012	12	6488	
3.135	25	1745.000019	19	6488	
2.9 (End Point)	25	1745.000011	11	6488	
Freq. ERROR vs. Temp.					
3.3	-30	1744.999990	-10	6488	
3.3	-20	1744.999988	-12	6488	
3.3	-10	1744.999971	-29	6488	
3.3	0	1744.999980	-20	6488	
3.3	10	1745.000000	0	6488	
3.3	20	1744.999976	-24	6488	
3.3	30	1744.999992	-8	6488	
3.3	40	1744.999992	-8	6488	
3.3	50	1745.000002	2	6488	
Reference Freq.:		LTE B71 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					
3.465	25	2593.000021	21	6338	
3.3	25	2593.000017	17	6338	
3.135	25	2593.000013	13	6338	
2.9 (End Point)	25	2593.000013	13	6338	
Freq. ERROR vs. Temp.					
3.3	-30	2592.999988	-12	6338	
3.3	-20	2592.999981	-19	6338	
3.3	-10	2592.999967	-33	6338	
3.3	0	2592.999985	-15	6338	
3.3	10	2593.000003	3	6338	
3.3	20	2592.999989	-11	6338	
3.3	30	2592.999983	-17	6338	
3.3	40	2592.999992	-8	6338	
3.3	50	2592.999999	-1	6338	

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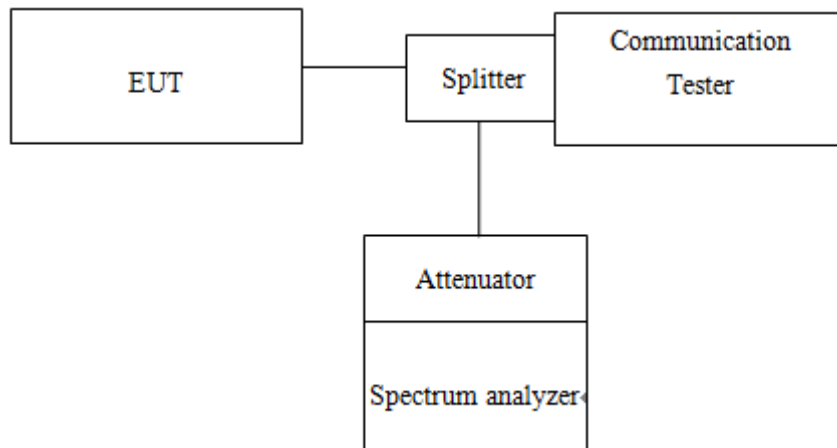
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11 PEAK TO AVERAGE RATIO

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.

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11.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF30	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Splitter	Woken	DOM35LW1A2	RF83	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A18 5C	RF229	11/20/2019	11/19/2020

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.90	2.89	2.90
1880	9400	2.87	2.87	2.85
1907.6	9538	2.88	2.87	2.89
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.91	2.86	2.87
1732.6	1413	3.21	3.26	3.29
1752.6	1513	3.37	3.30	3.32
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.86	2.89	2.87
836.6	4183	2.81	2.82	2.80
846.6	4233	2.84	2.86	2.85

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1850.7	18607	6.54	13	1851.5	18615	6.83	13
1880.0	18900	6.63	13	1880.0	18900	6.64	13
1909.3	19193	6.72	13	1908.5	19185	6.40	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1852.5	18625	6.75	13	1855.0	18650	6.35	13
1880.0	18900	6.55	13	1880.0	18900	6.61	13
1907.5	19175	6.43	13	1905.0	19150	6.62	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1857.5	18675	6.57	13	1860.0	18700	6.74	13
1880.0	18900	6.69	13	1880.0	18900	6.53	13
1902.5	19125	6.56	13	1900.0	19100	6.90	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1710.7	19957	6.73	13	1711.5	19965	6.60	13
1732.5	20175	6.75	13	1732.5	20175	6.58	13
1754.3	20393	6.75	13	1753.5	20385	6.56	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1712.5	19957	6.59	13	1715.0	20000	6.50	13
1732.5	20175	6.58	13	1732.5	20175	6.51	13
1752.5	20375	6.53	13	1750.0	20350	6.61	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1717.5	20025	6.70	13	1720.0	20050	6.57	13
1732.5	20175	6.45	13	1732.5	20175	6.62	13
1747.5	20325	6.65	13	1745.0	20300	6.70	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
824.7	20407	6.57	13	825.5	20415	6.72	13
836.5	20525	6.59	13	836.5	20525	6.76	13
848.3	20643	6.43	13	847.5	20635	6.44	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
826.5	20425	6.77	13	829.0	20450	6.52	13
836.5	20525	6.70	13	836.5	20525	6.58	13
846.5	20625	6.61	13	844.0	20600	6.53	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2502.5	20775	6.63	13	2505.0	20800	6.58	13
2535.0	21100	6.63	13	2535.0	21100	6.50	13
2567.5	21375	6.49	13	2565.0	21350	6.51	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2507.5	20825	6.52	13	2510	20850	6.56	13
2535.0	21100	6.54	13	2535	21100	6.67	13
2562.5	21375	6.64	13	2560	21350	6.64	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
699.7	23017	6.93	13	700.5	23025	6.60	13
707.5	23095	6.86	13	707.5	23095	6.71	13
715.3	23173	6.53	13	714.5	23165	6.55	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
701.5	23035	6.50	13	704.0	23060	4.78	13
707.5	23095	6.76	13	707.5	23095	5.01	13
713.5	23155	6.49	13	711.0	23130	4.96	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
779.5	23205	6.87	13	782.0	23230	6.55	13
782.0	23230	6.26	13				
784.5	23255	6.81	13				

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LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
790.5	23305	6.55	13	793.0	23330	6.46	13
793	23330	6.68	13				
795.5	23355	6.74	13				

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1850.7	26047	6.94	13	1851.5	26055	6.30	13
1882.5	26365	6.24	13	1882.5	26365	6.44	13
1914.3	26683	6.63	13	1913.5	26675	6.45	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1857.5	26115	6.47	13	1860.0	26140	6.65	13
1882.5	26365	6.45	13	1882.5	26365	6.37	13
1907.5	26615	6.63	13	1905.0	26590	6.90	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
814.7	26697	6.75	13	815.5	26705	6.75	13
831.5	26865	6.86	13	831.5	26865	6.32	13
848.3	27033	7.18	13	847.5	27025	6.56	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
816.5	26715	6.63	13	820.0	26750	6.58	13
831.5	26865	6.74	13	831.5	26865	6.47	13
846.5	27015	6.53	13	844.0	26990	6.52	13

LTE BAND 26			
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
822.5	26775	6.66	13
831.5	26865	6.66	13
841.5	26965	6.55	13

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
814.7	26697	7.04	13	815.5	26705	6.69	13
819.0	26740	7.37	13	819	26740	6.68	13
823.3	26783	6.67	13	822.5	26775	6.48	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
816.5	26715	6.70	13	819.0	26740	6.70	13
819.0	26740	6.57	13				
821.5	26765	6.55	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		256QAM	Limit			256QAM	Limit
2307.5	27685	6.66	13	2310.0	27710	6.61	13
2310.0	27710	6.60	13				
2312.5	27735	6.43	13				

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2498.5	39675	7.21	13	2501.0	39700	7.95	13
2593.0	40620	7.29	13	2593.0	40620	8.15	13
2687.5	41565	7.00	13	2685.0	41540	7.15	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		256QAM	Limit			256QAM	Limit
1710.7	131979	6.85	13	1711.5	131987	6.69	13
1745.0	132322	7.00	13	1745.0	132322	6.66	13
1779.3	132665	7.27	13	1778.5	132657	6.73	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		256QAM	Limit			256QAM	Limit
1712.5	131997	6.64	13	1715.0	132022	6.55	13
1745.0	132322	6.61	13	1745.0	132322	6.68	13
1777.5	132647	6.62	13	1775.0	132622	6.69	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1717.5	132047	6.65	13	1720.0	132072	6.63	13
1745.0	132322	6.61	13	1745.0	132322	6.67	13
1772.5	132597	6.59	13	1770.0	132572	6.74	13

LTE BAND 71							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
665.5	133147	6.58	13	688.0	133172	6.52	13
680.5	133297	6.58	13	680.5	133297	6.68	13
695.5	133447	6.68	13	693.0	133422	6.66	13

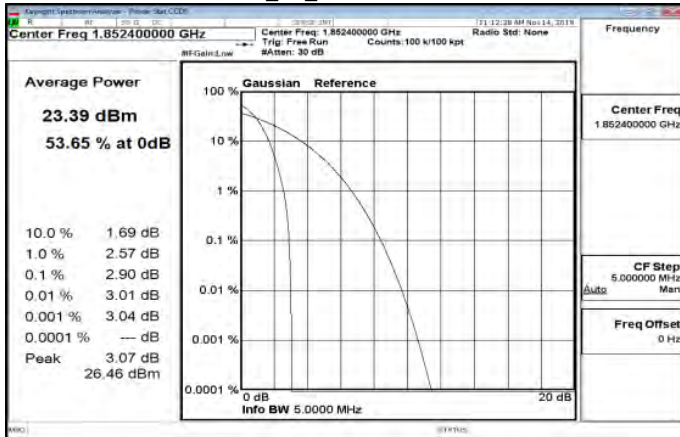
LTE BAND 71							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
670.5	133197	6.58	13	673.0	133222	6.83	13
680.5	133297	6.55	13	680.5	133297	6.60	13
690.5	133397	6.53	13	688.0	133372	7.05	13

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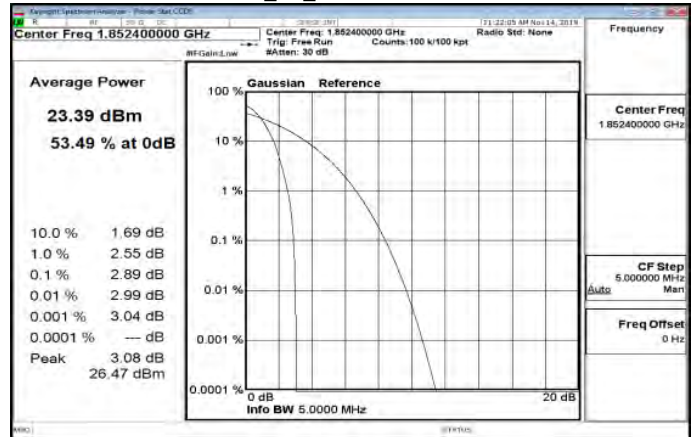
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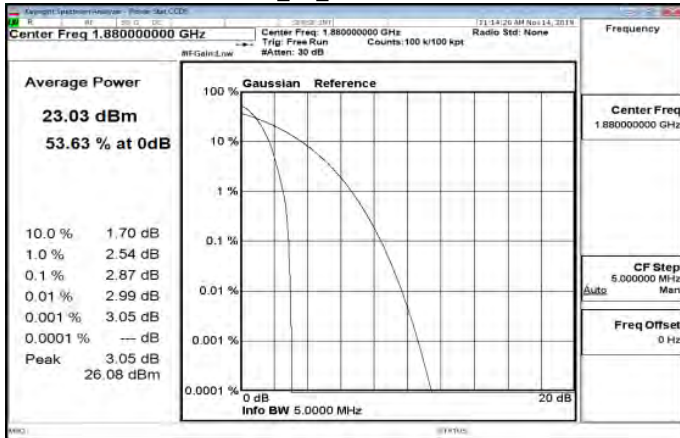
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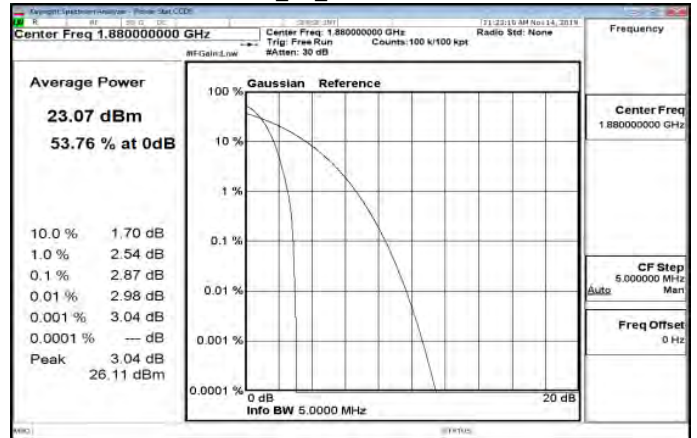
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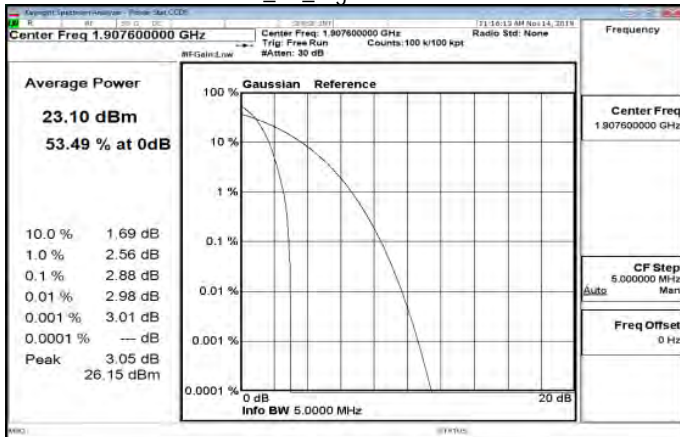
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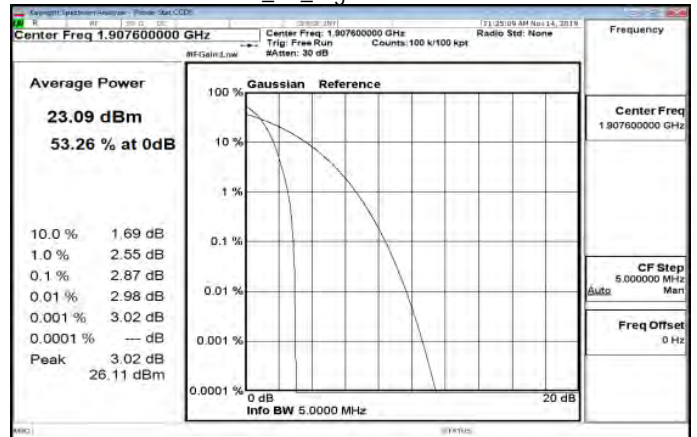
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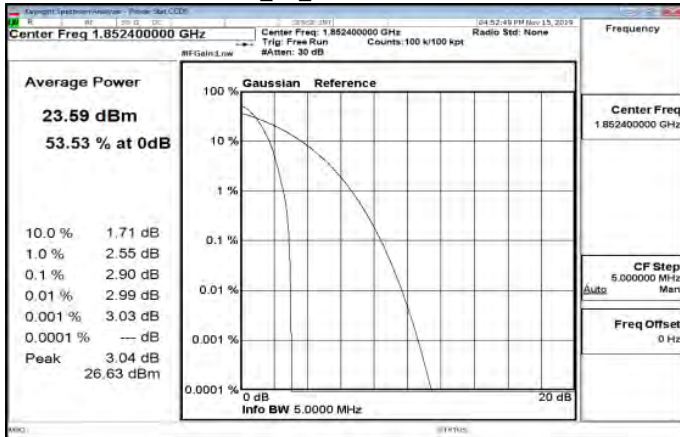


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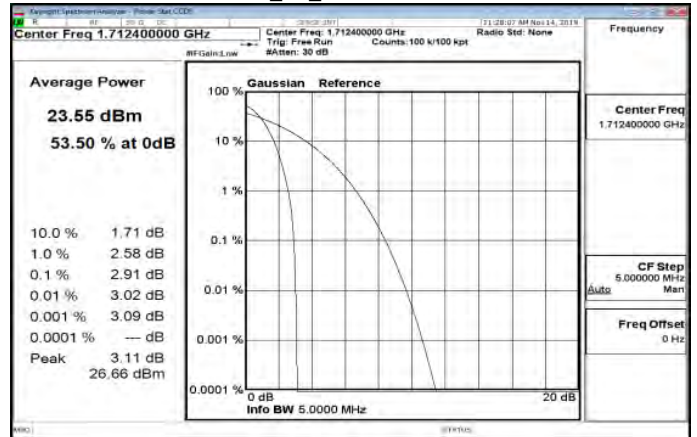
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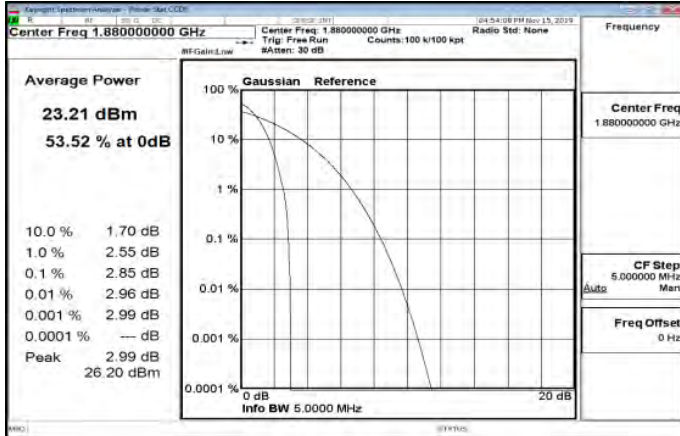
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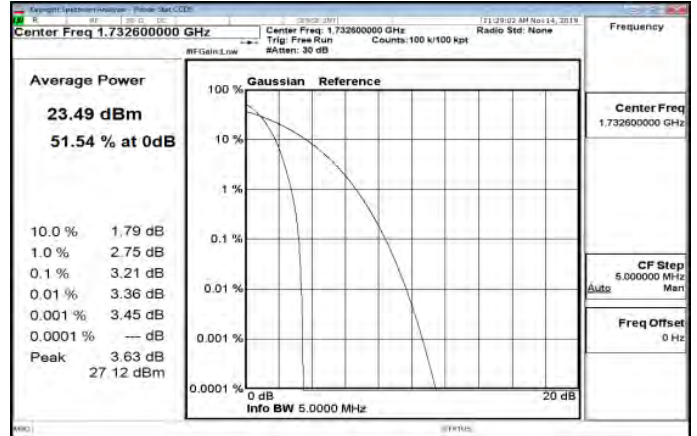
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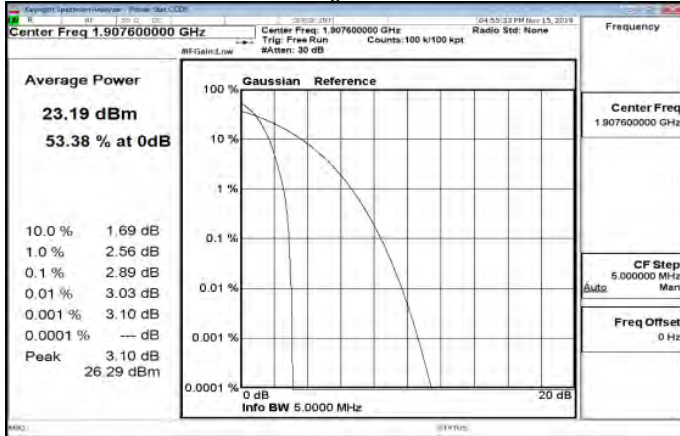
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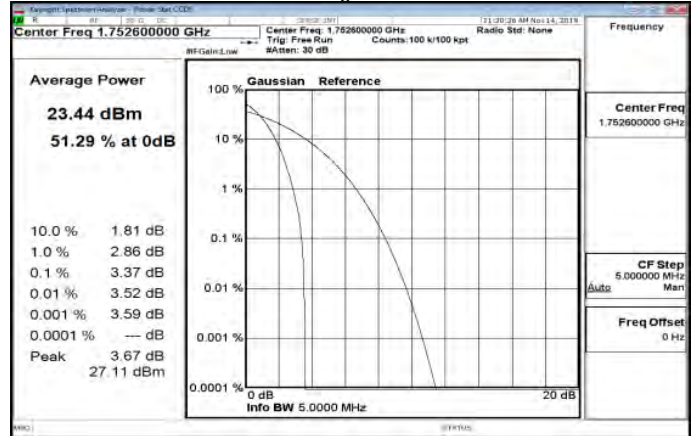
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HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6

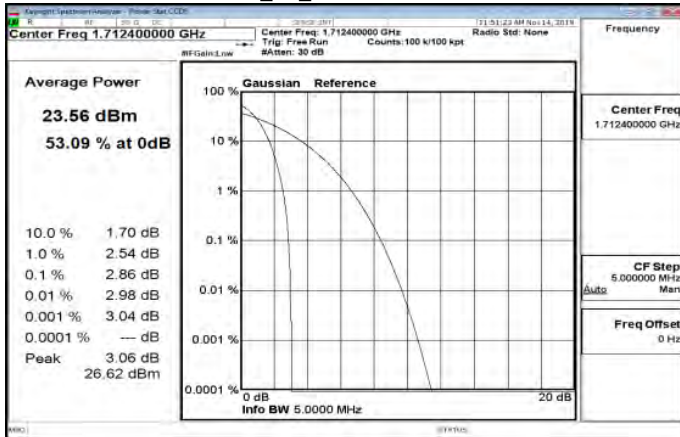


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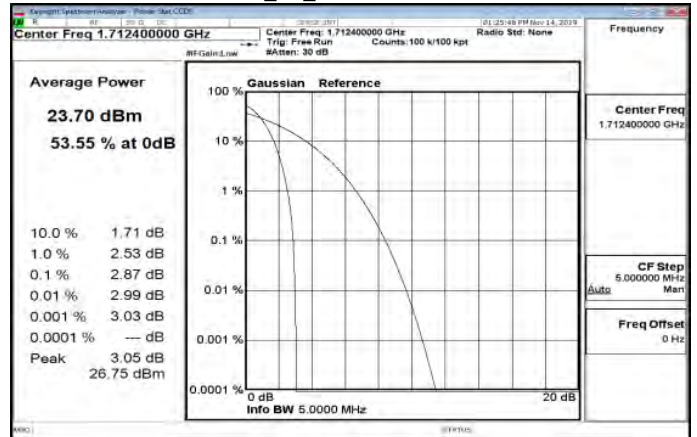
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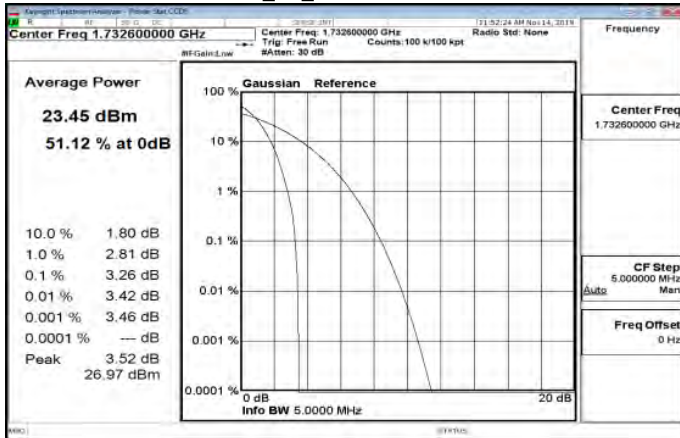
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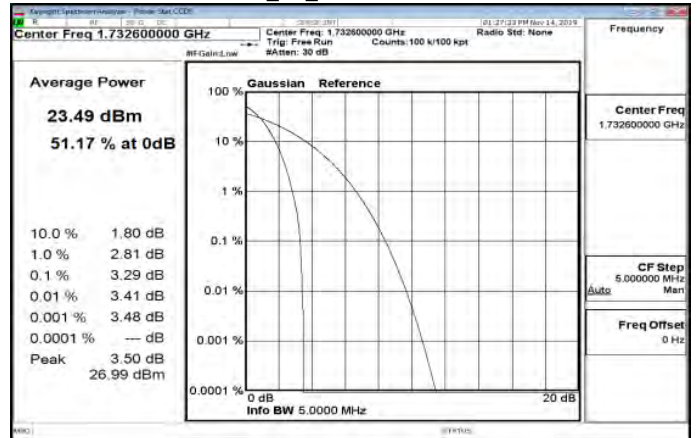
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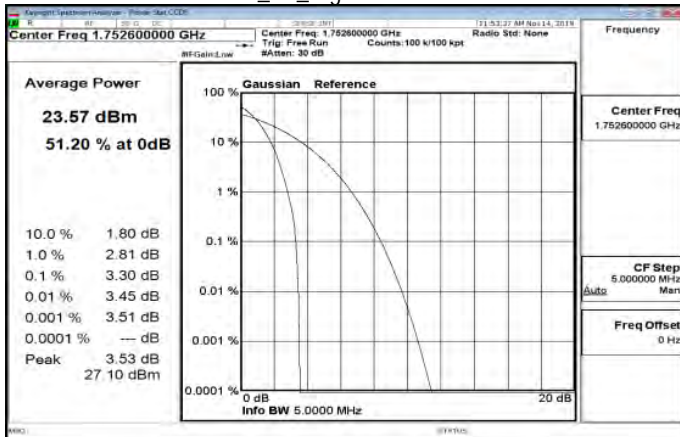
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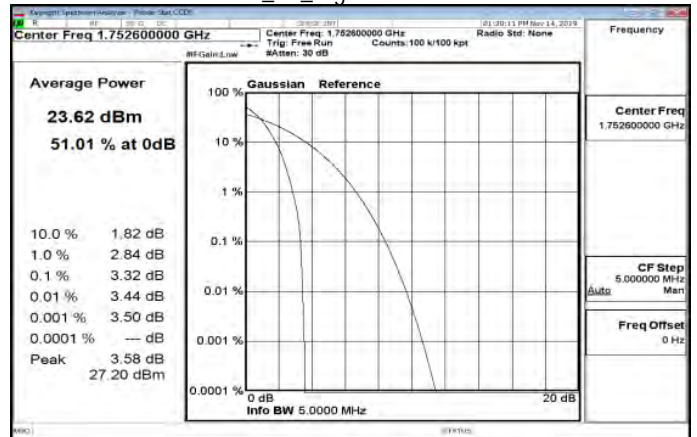
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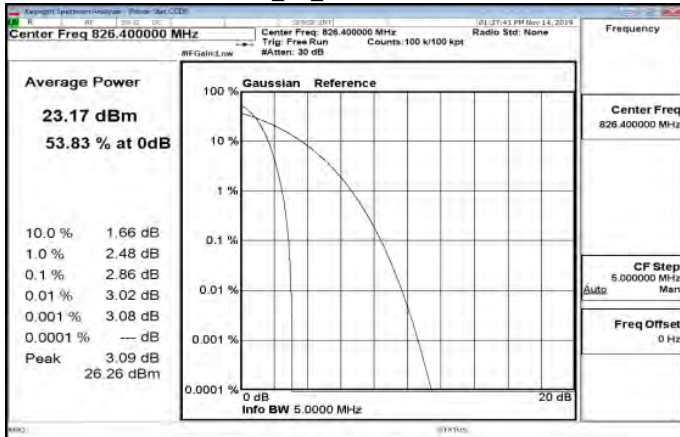


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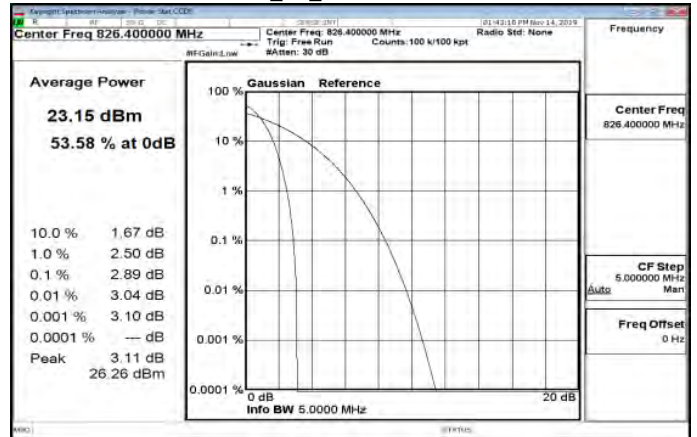
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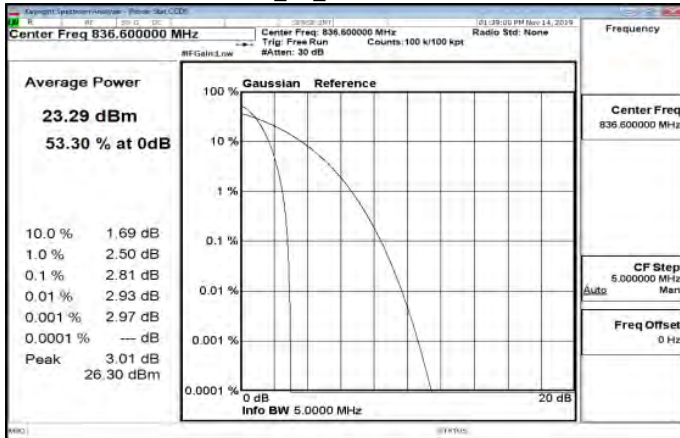
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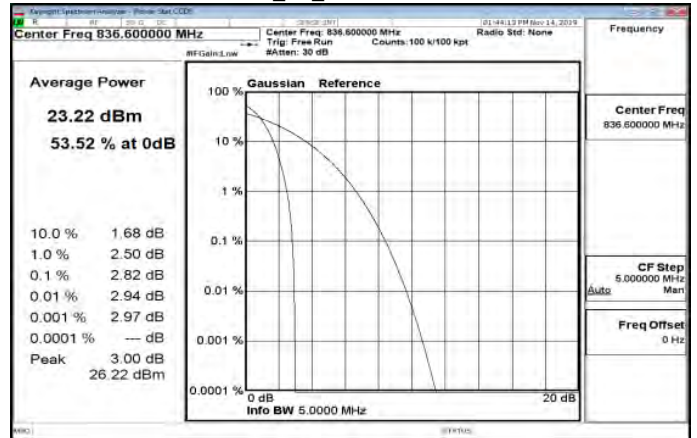
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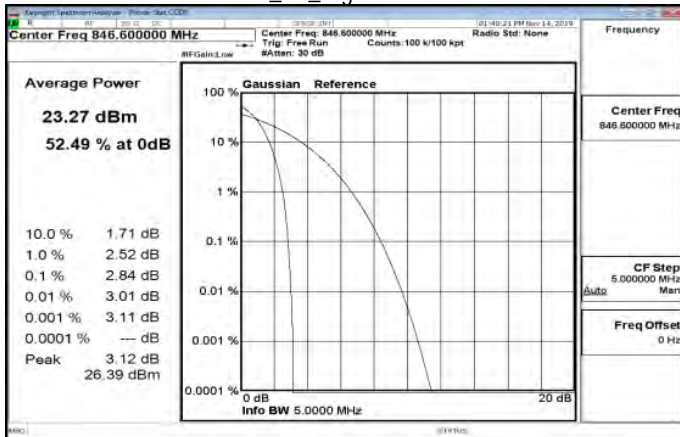
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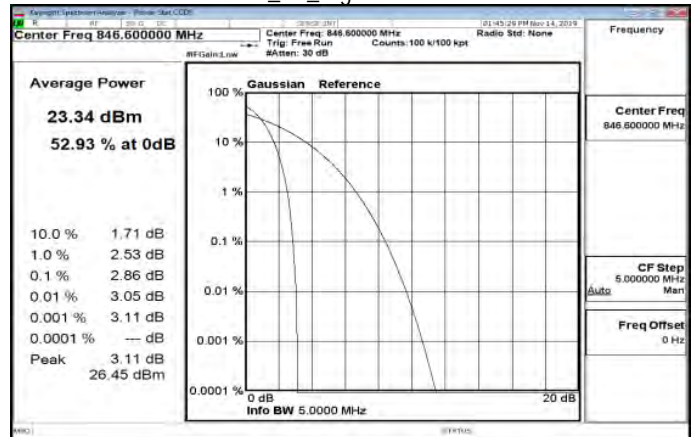
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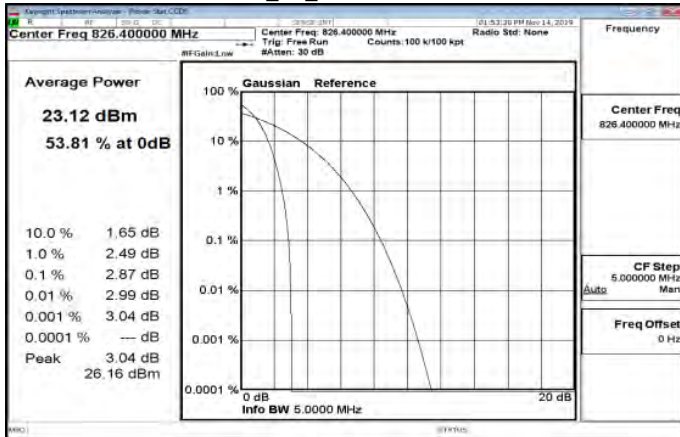


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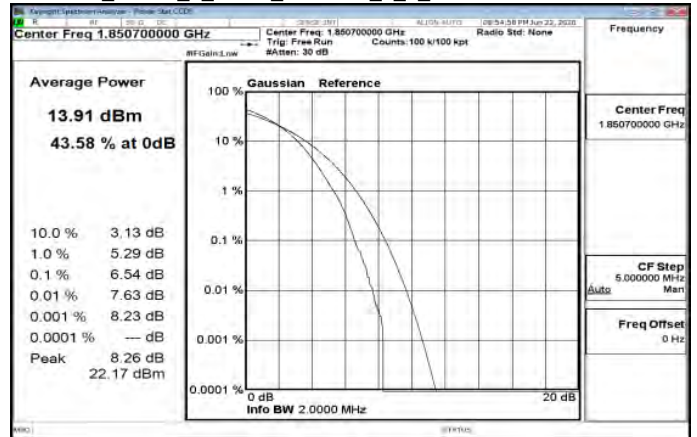
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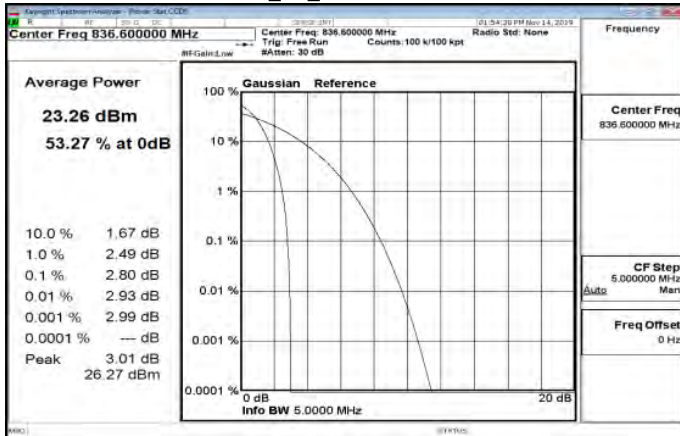
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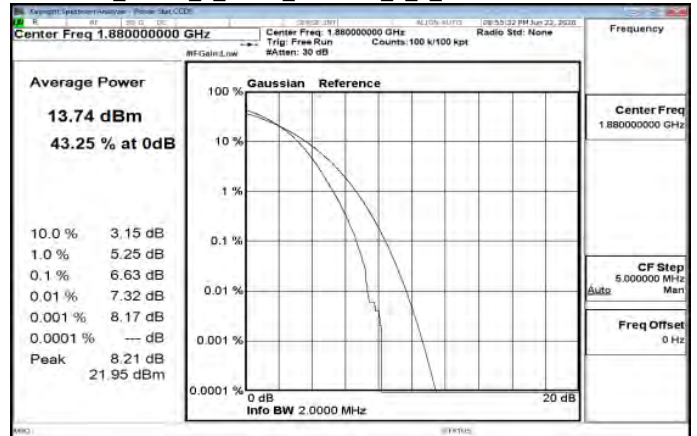
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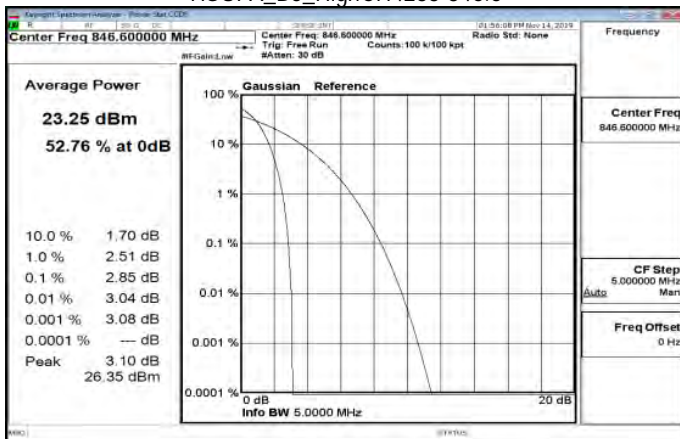
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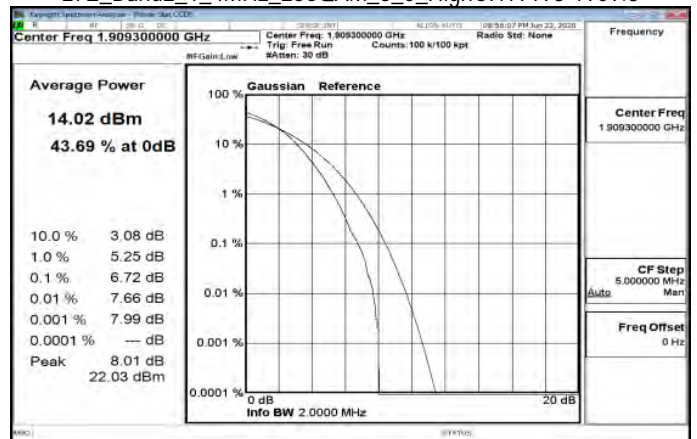
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HSUPA_B5_HighCH4233-846.6



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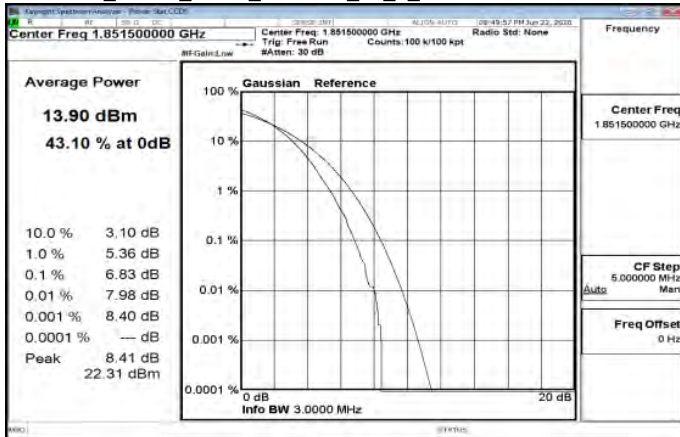


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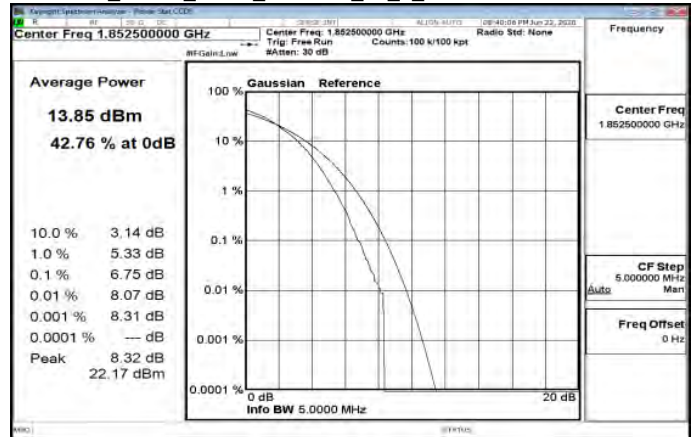
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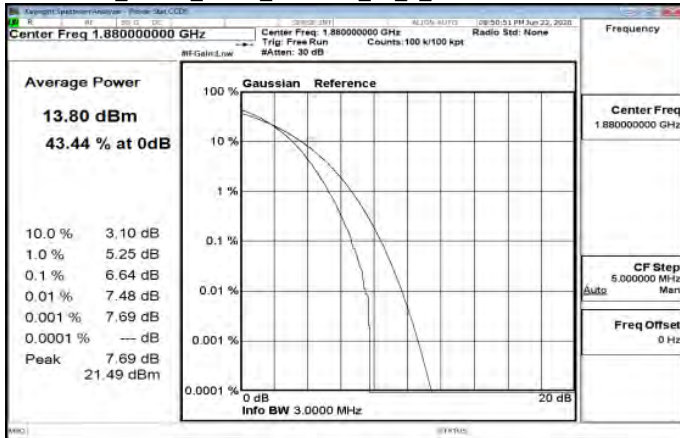
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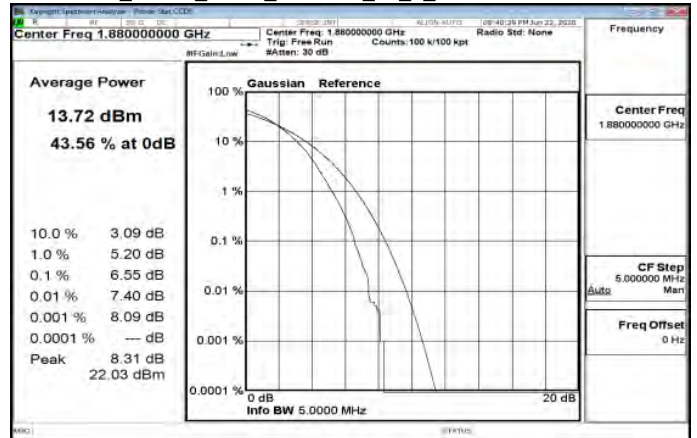
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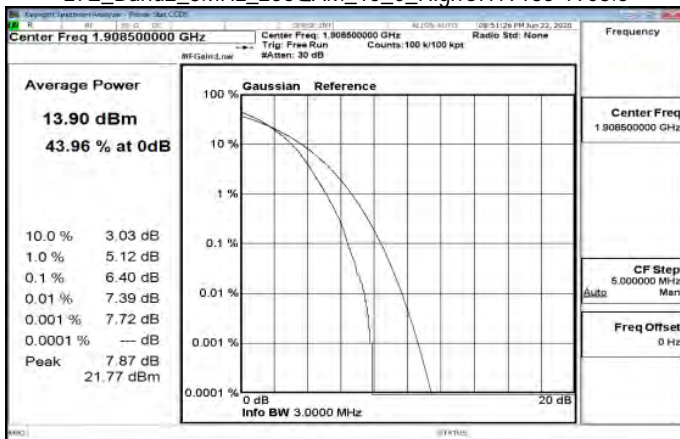
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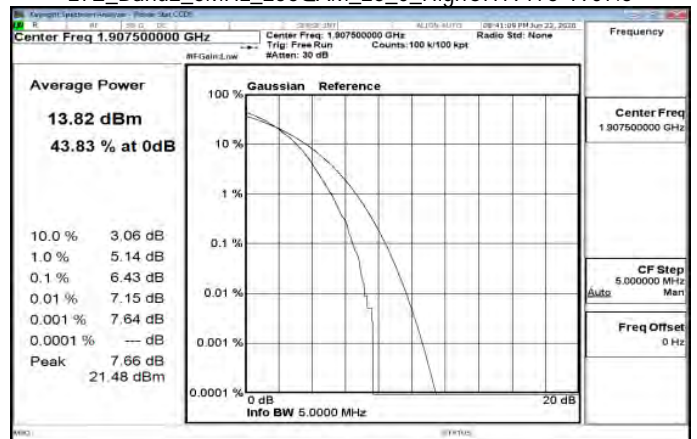
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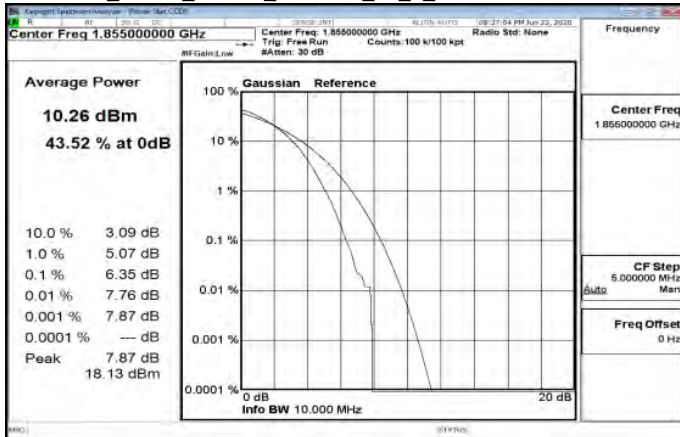


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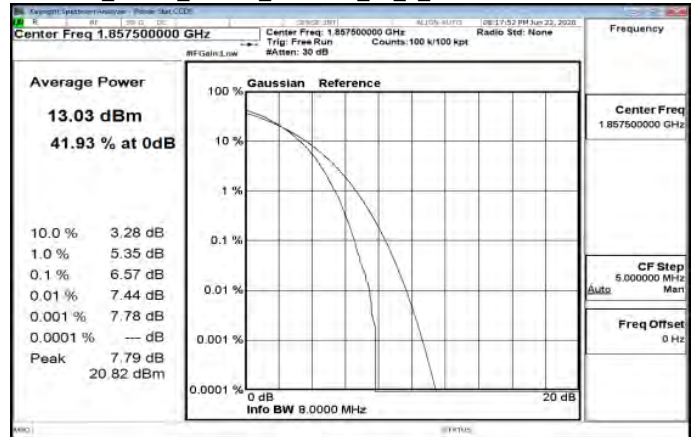
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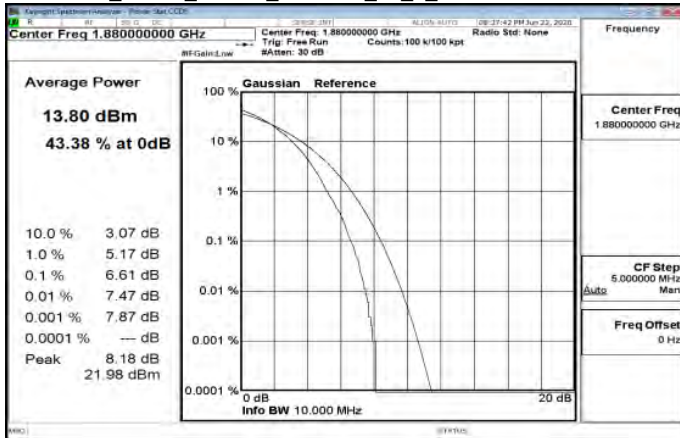
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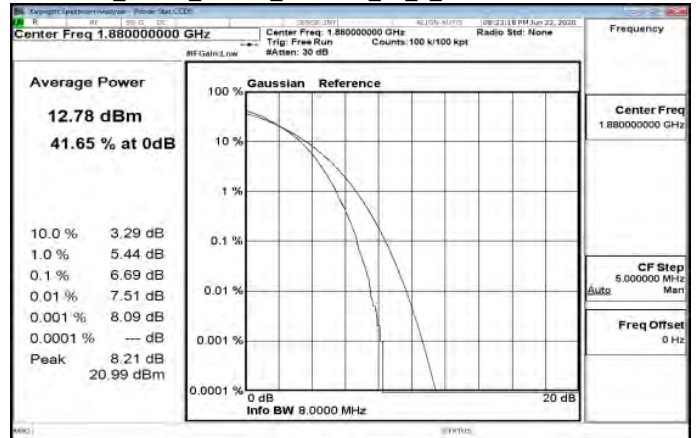
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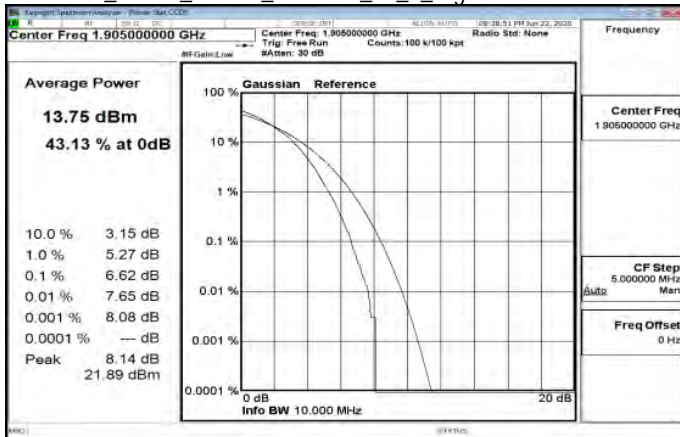
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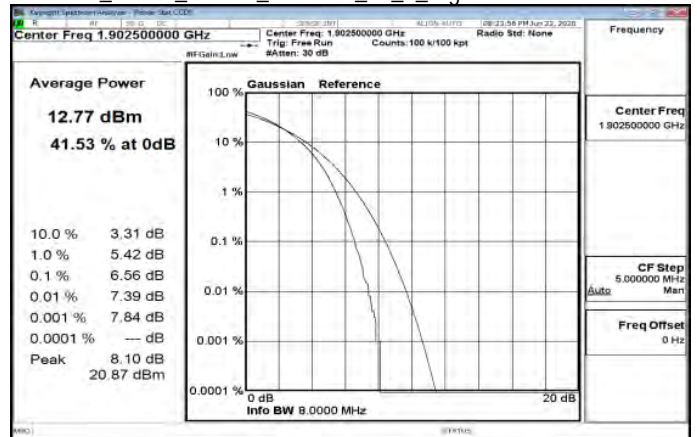
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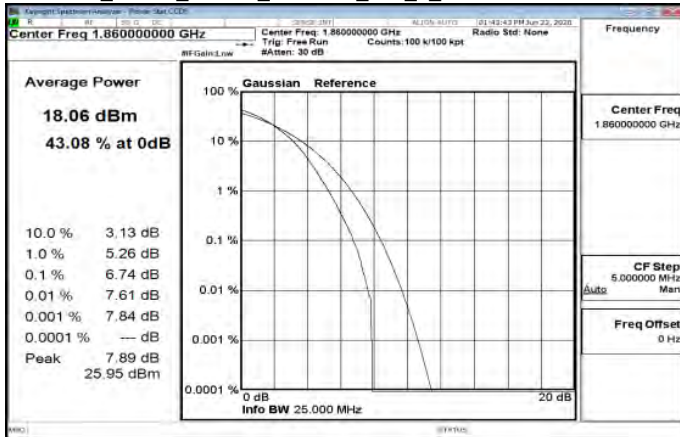


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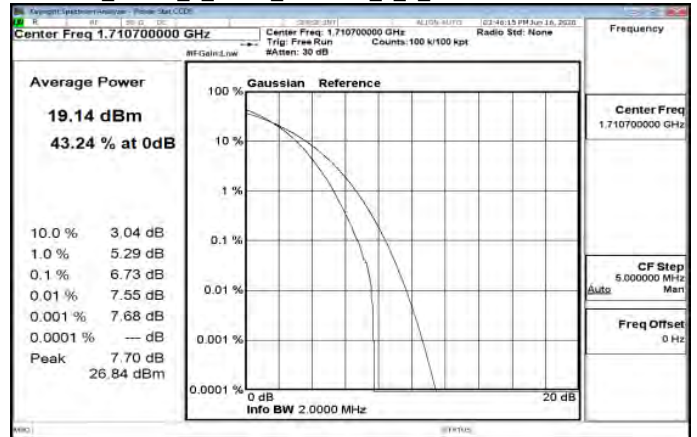
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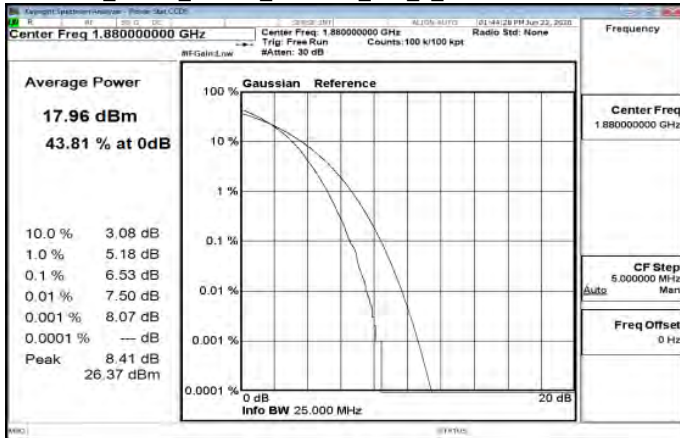
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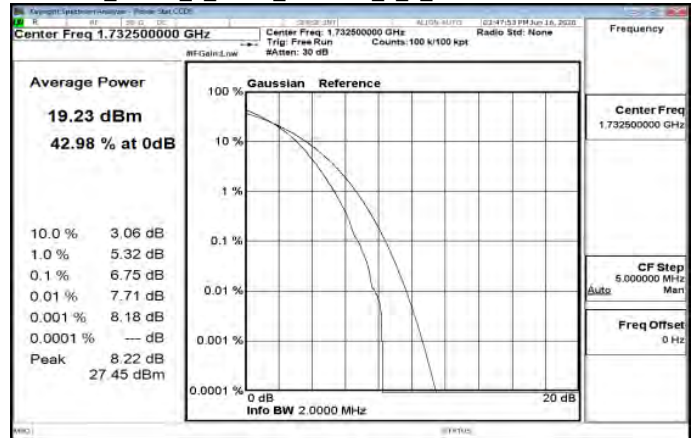
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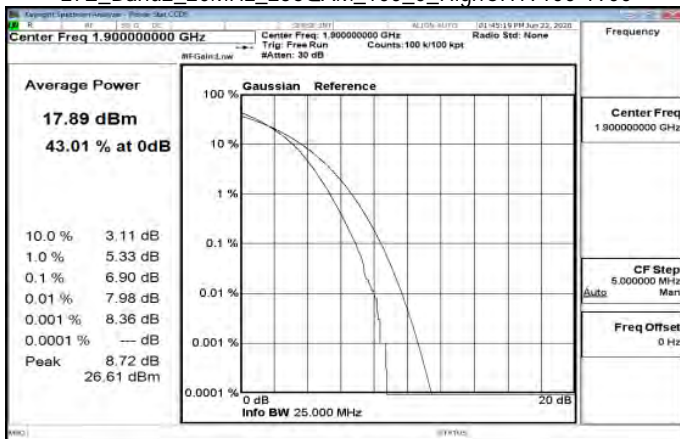
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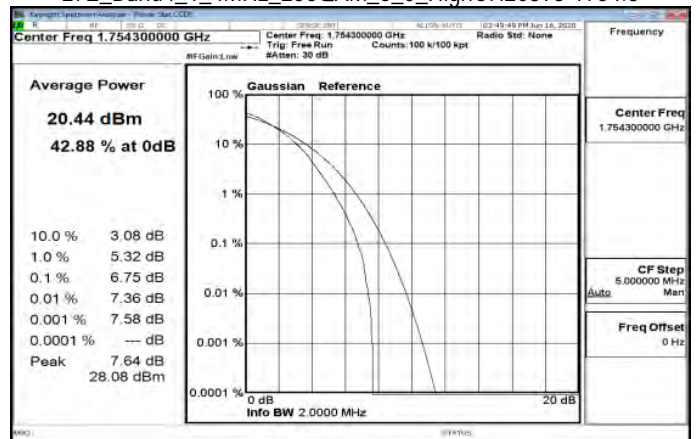
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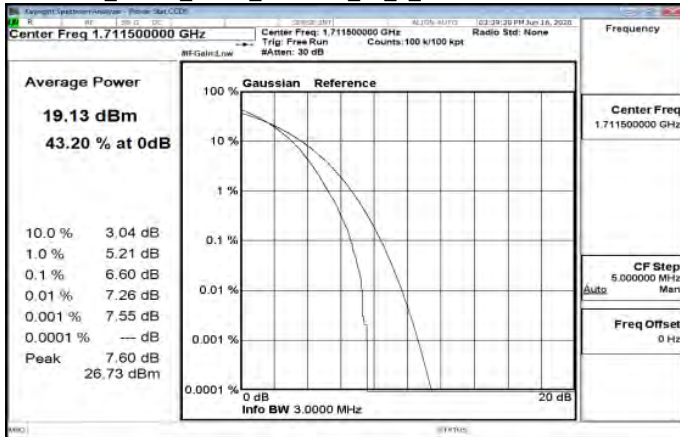


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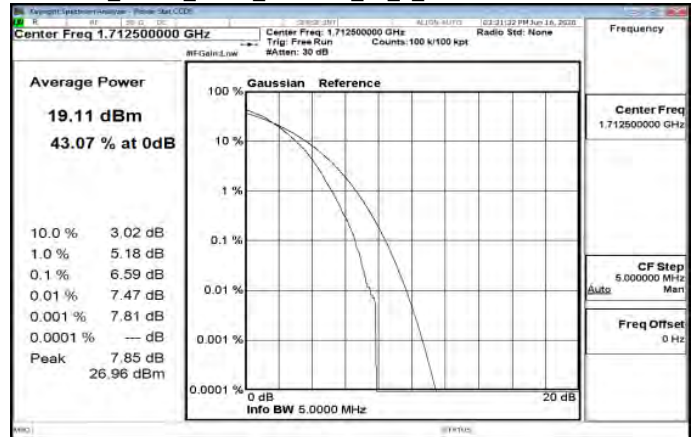
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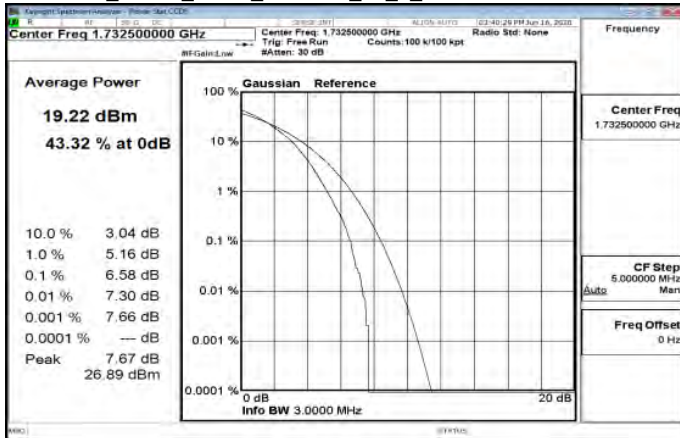
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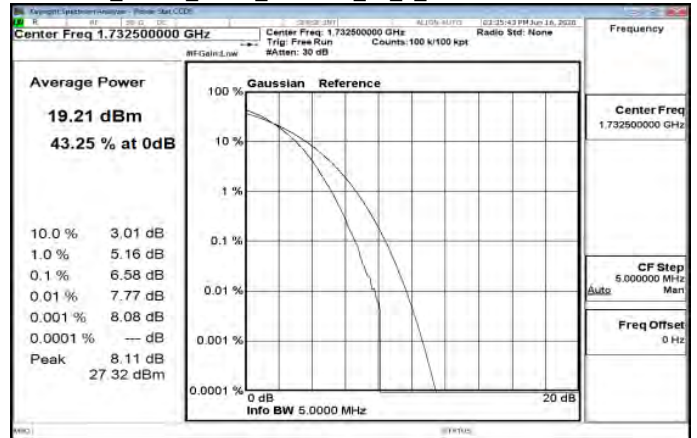
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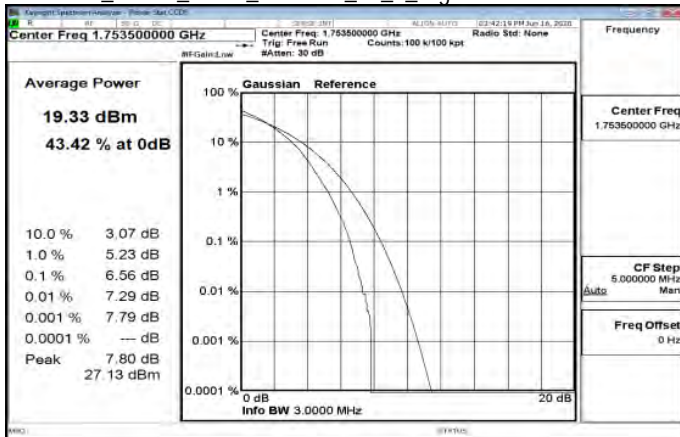
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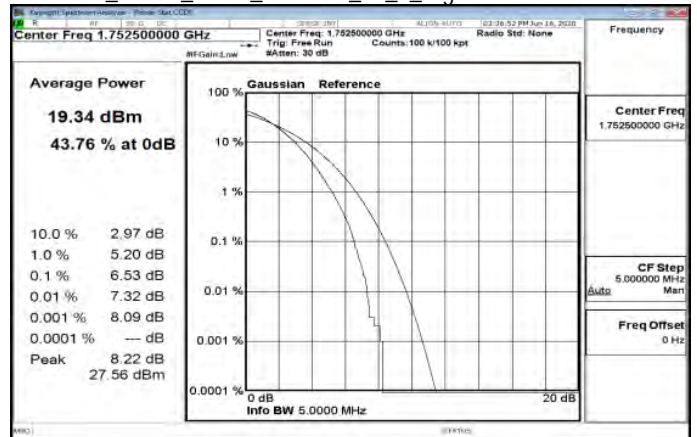
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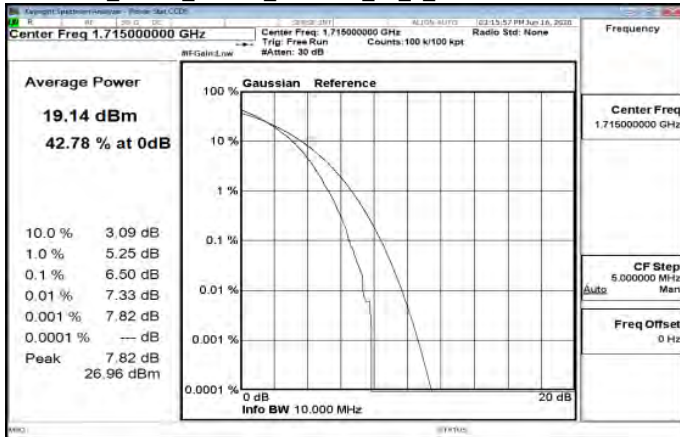


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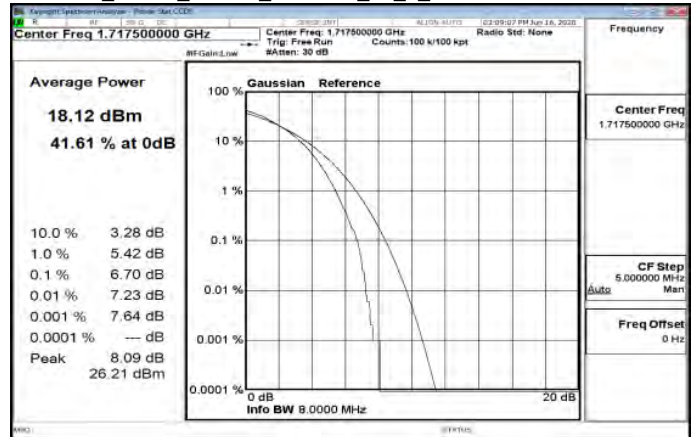
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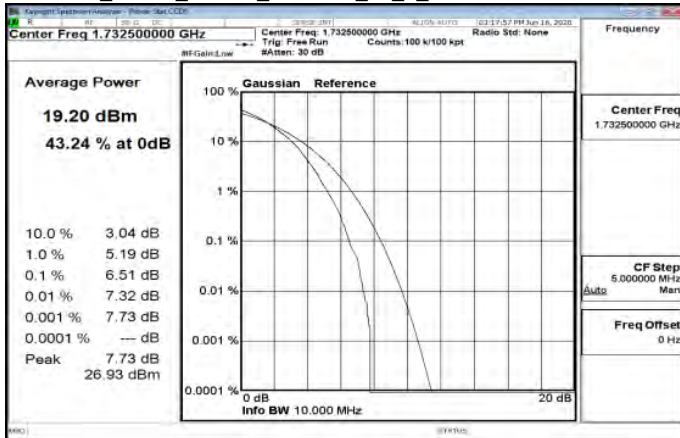
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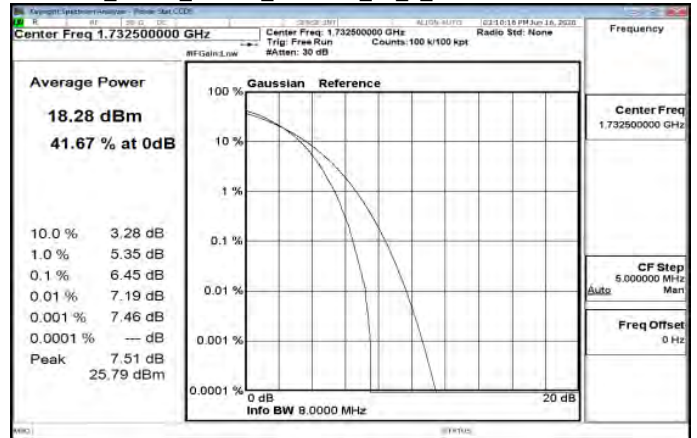
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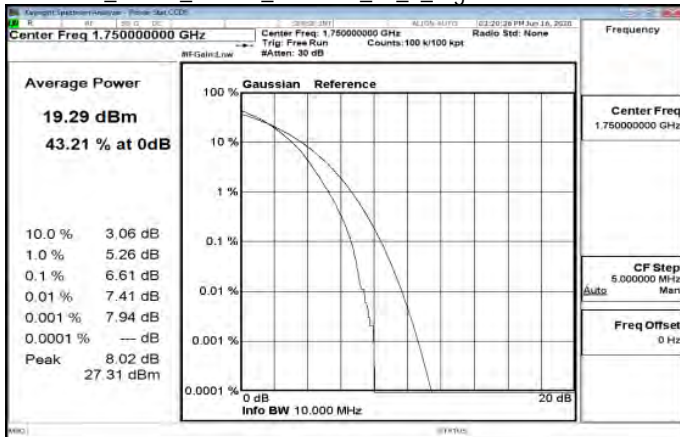
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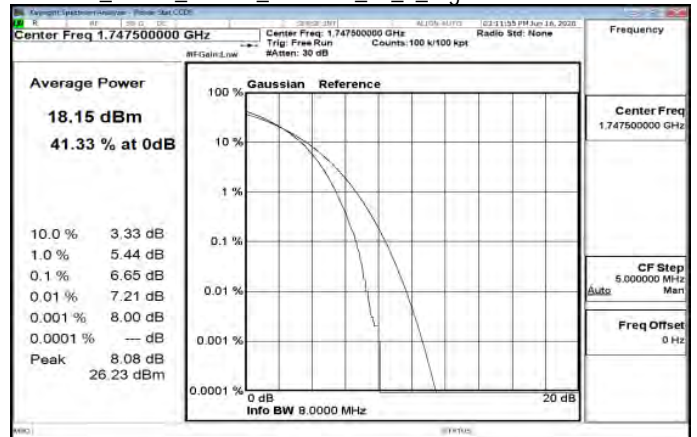
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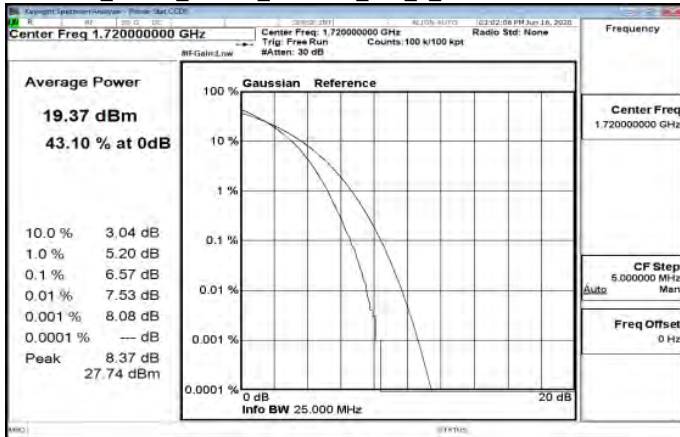


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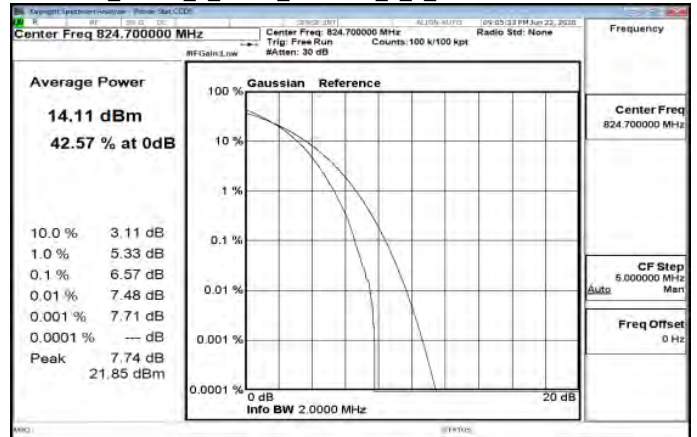
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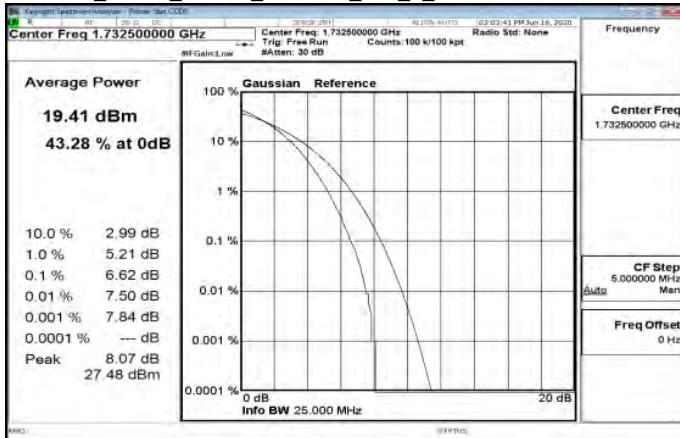
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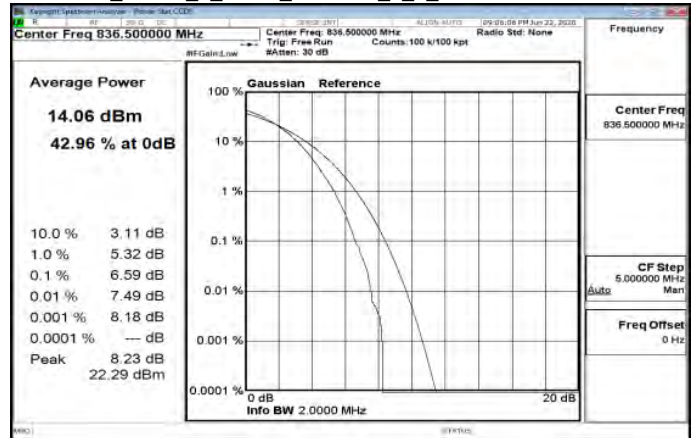
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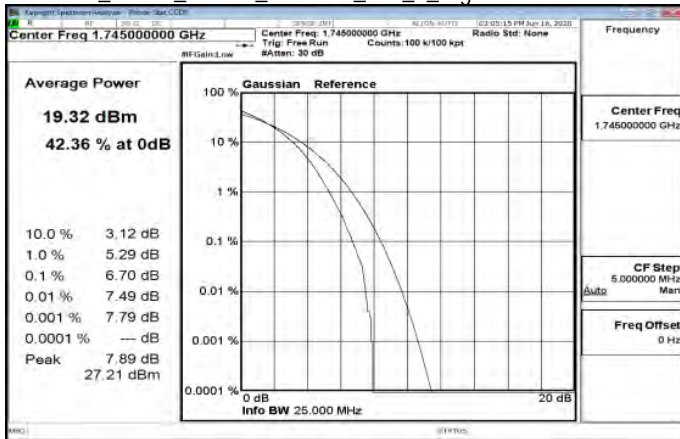
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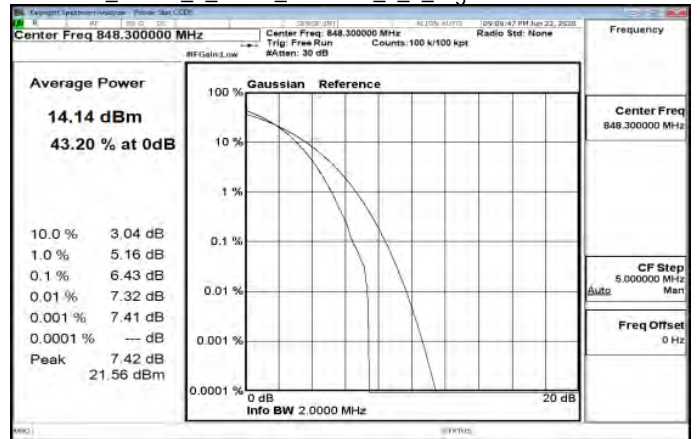
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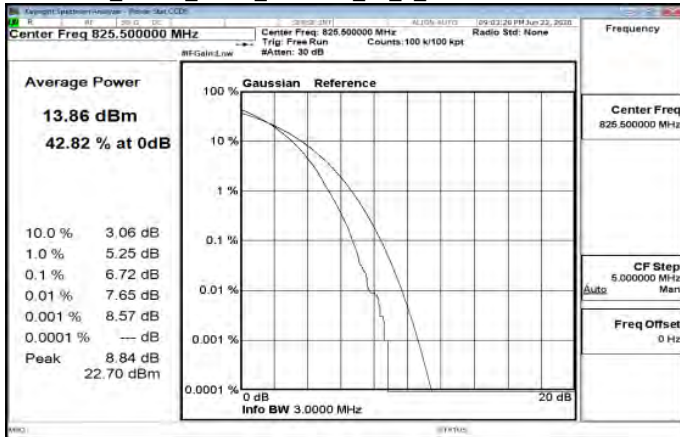


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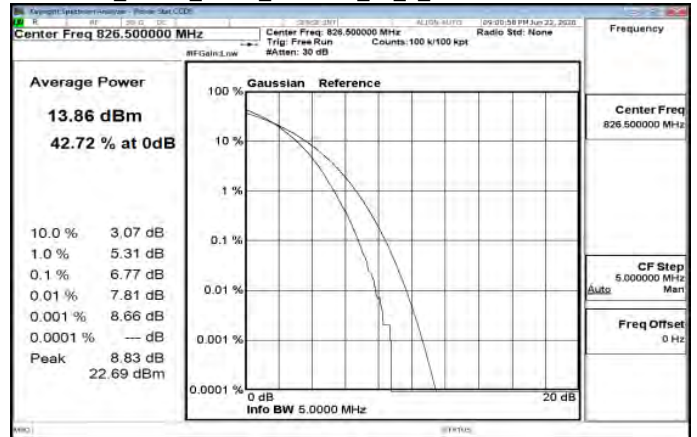
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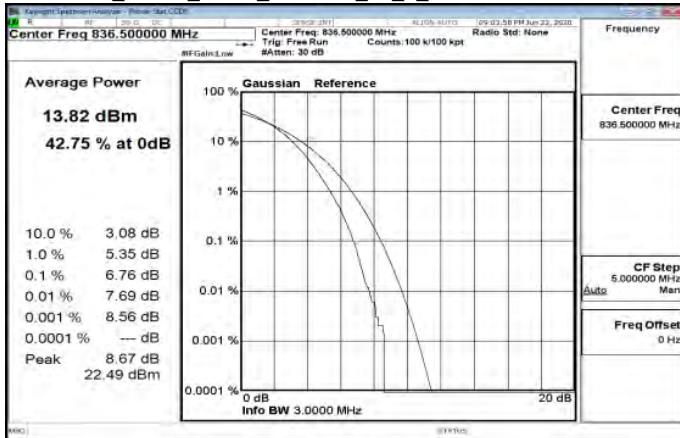
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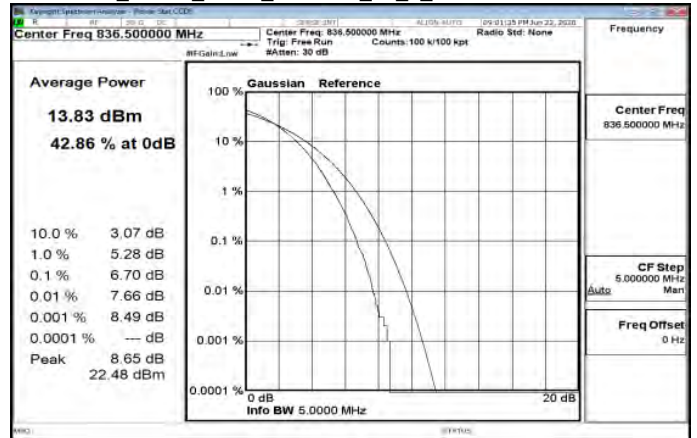
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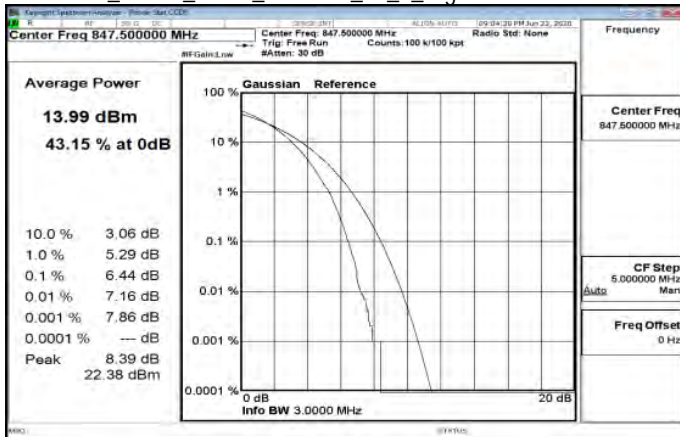
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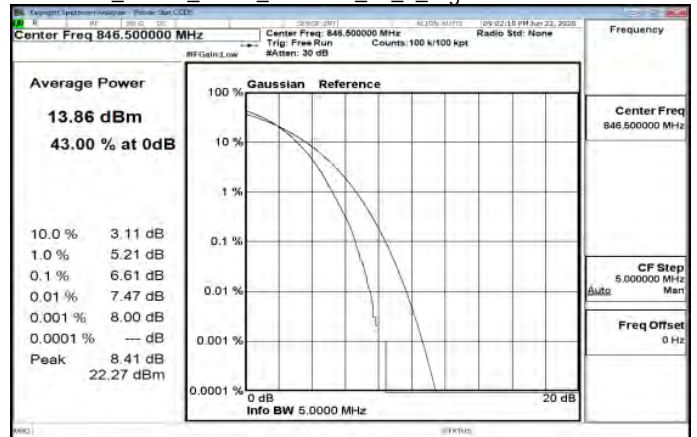
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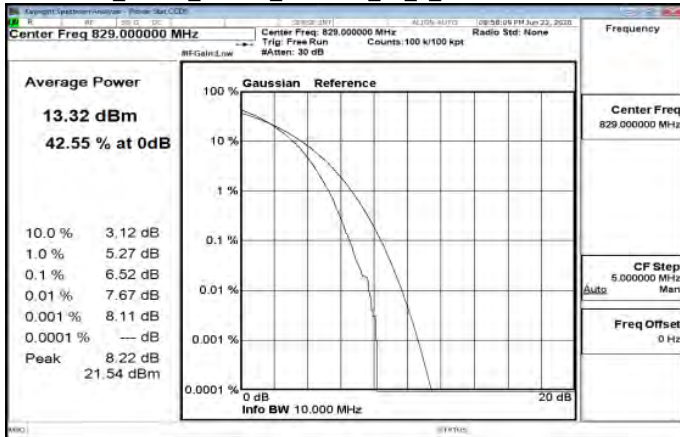


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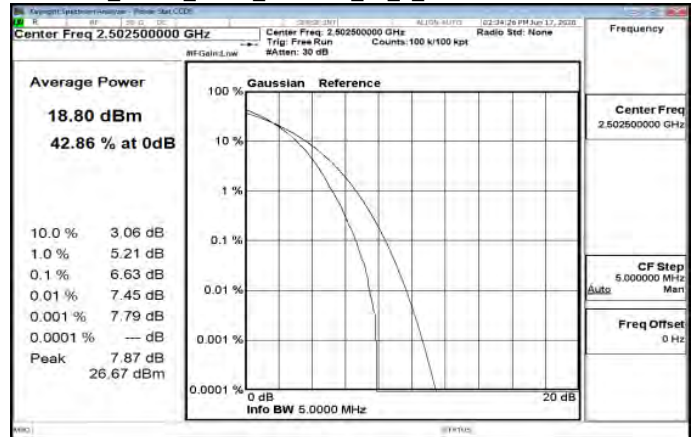
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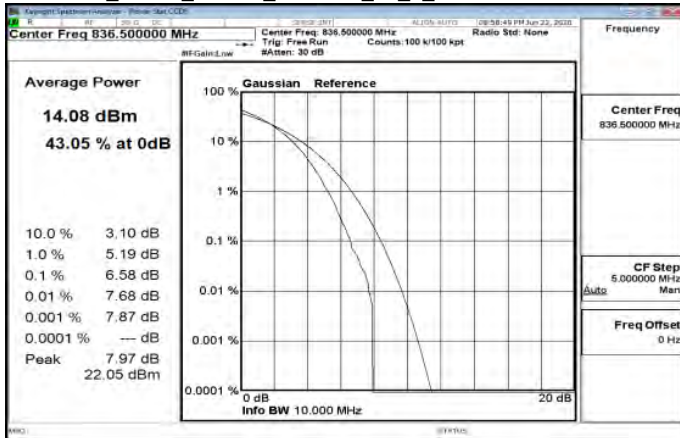
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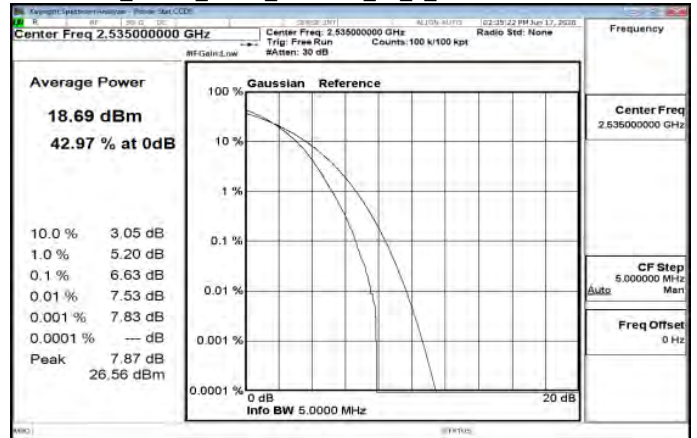
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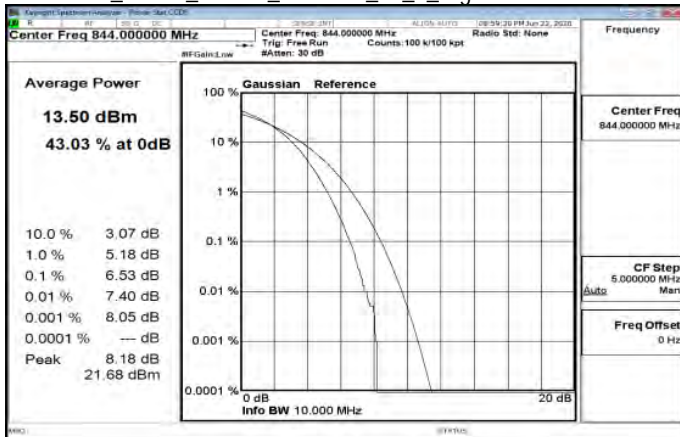
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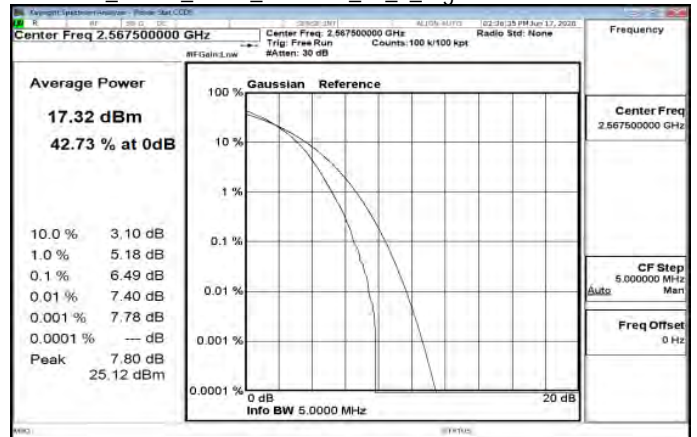
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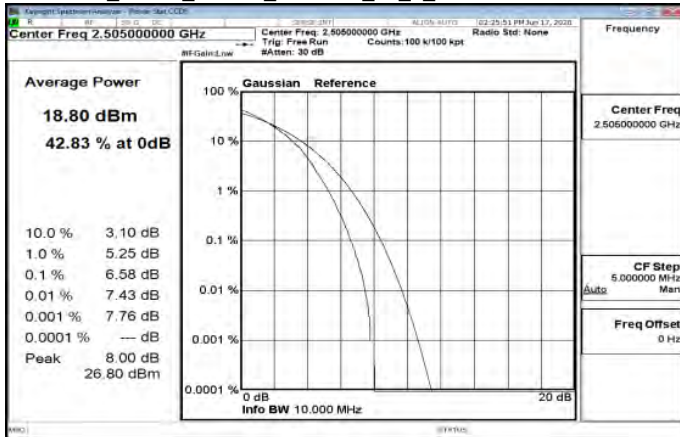


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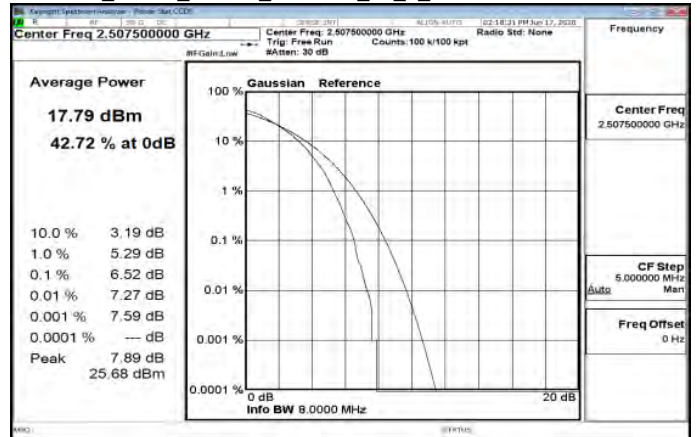
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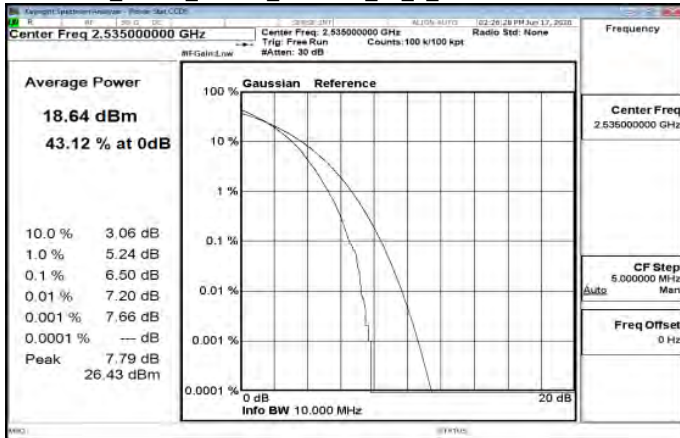
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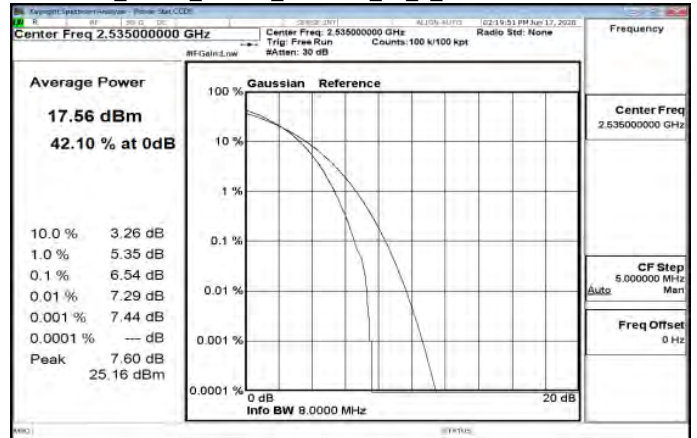
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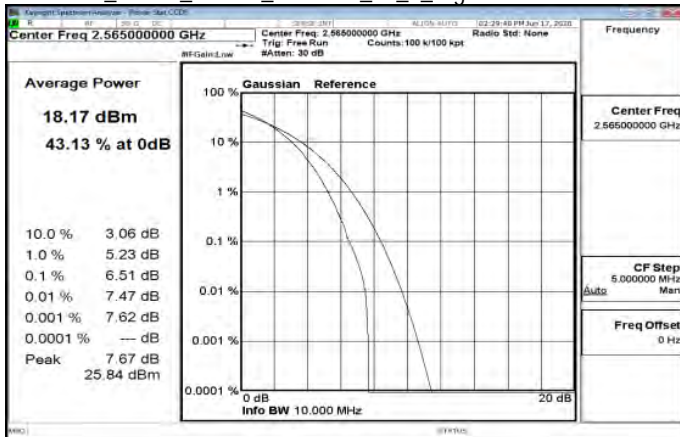
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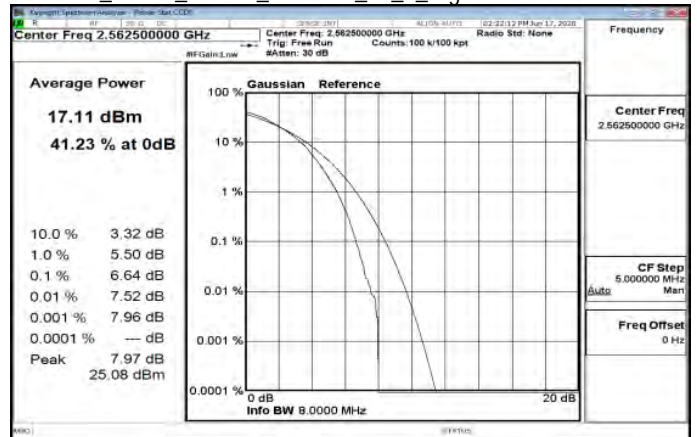
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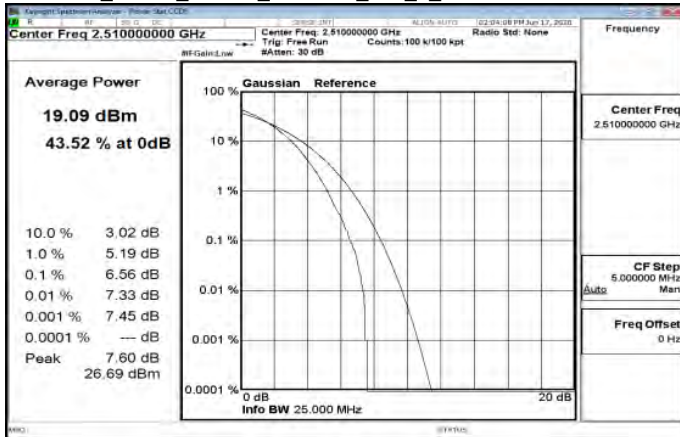


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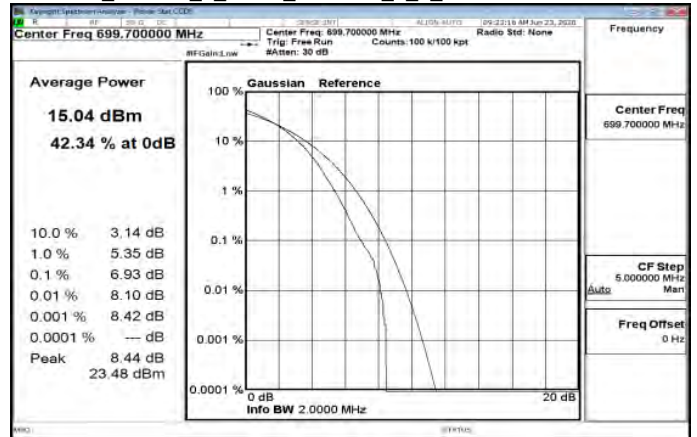
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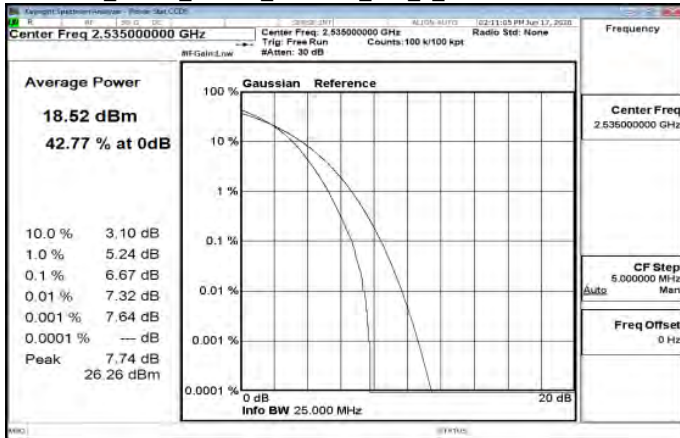
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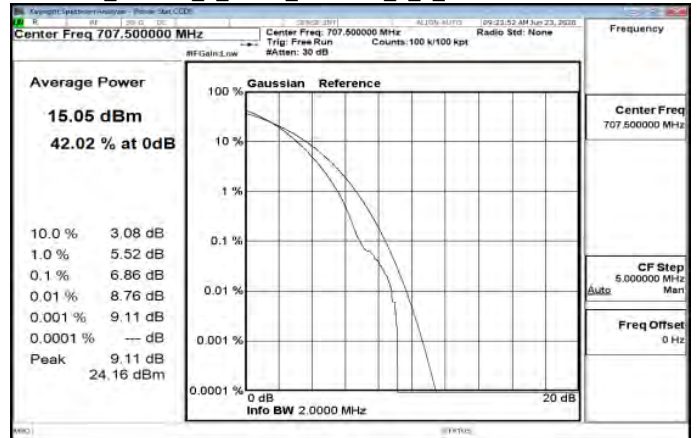
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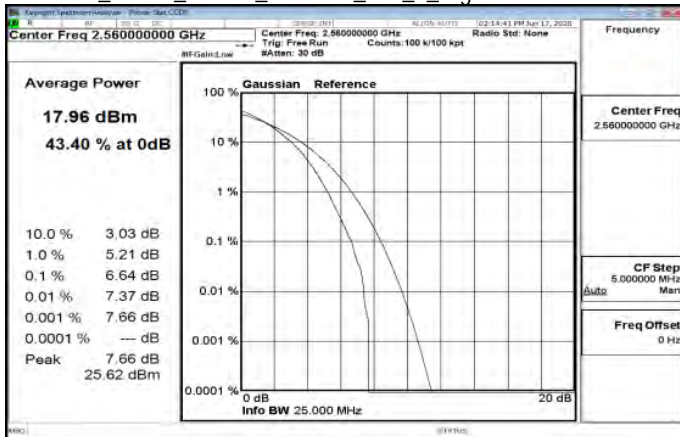
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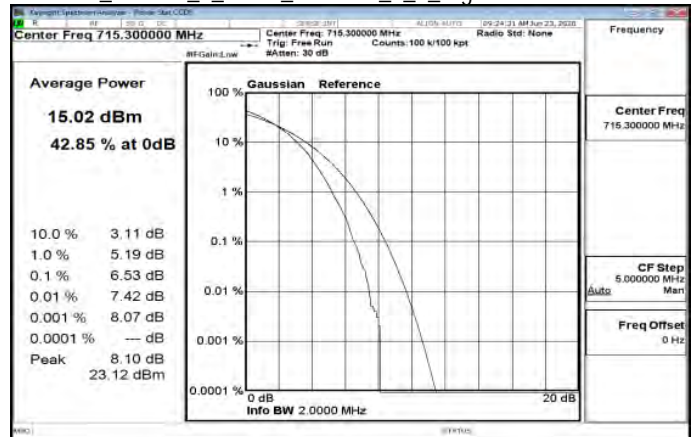
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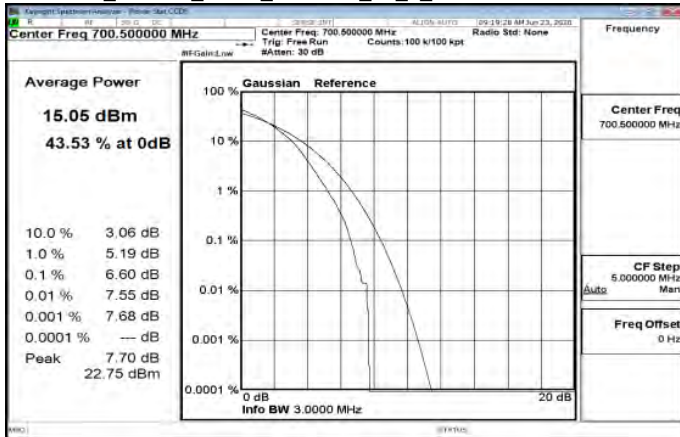


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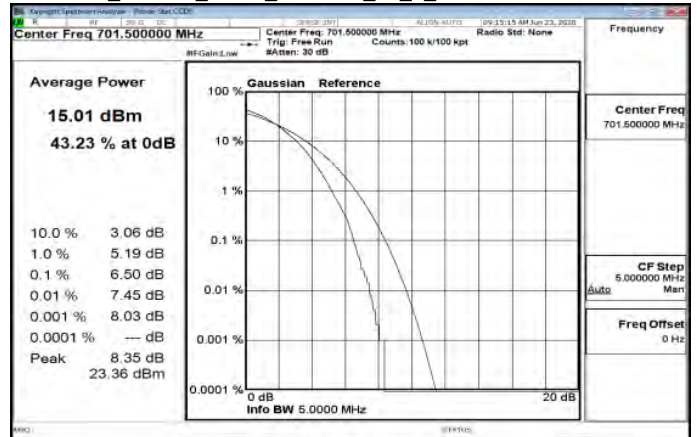
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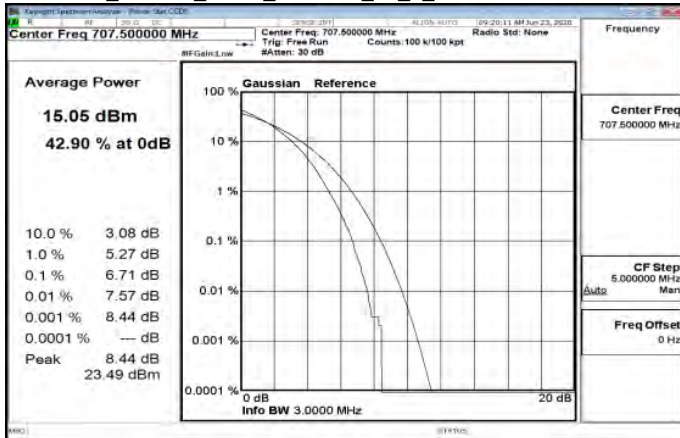
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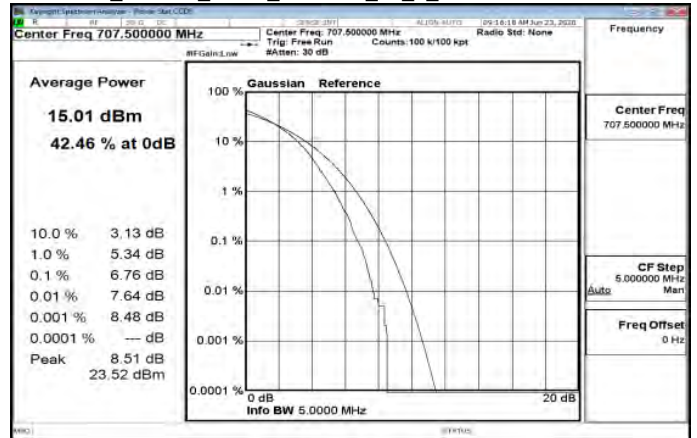
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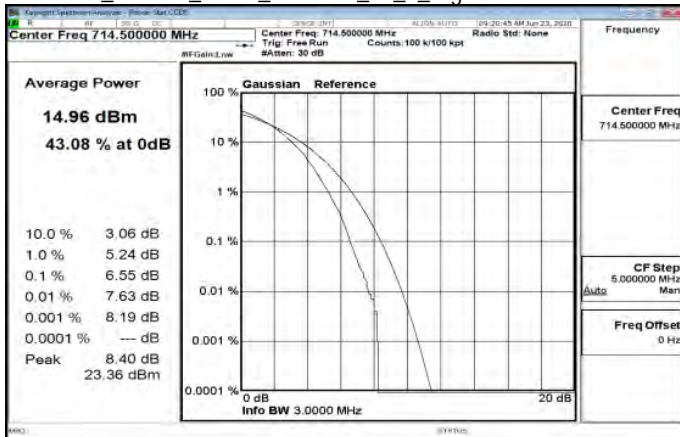
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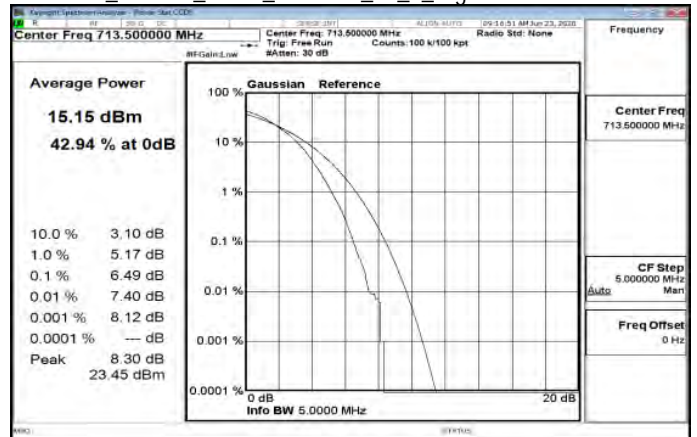
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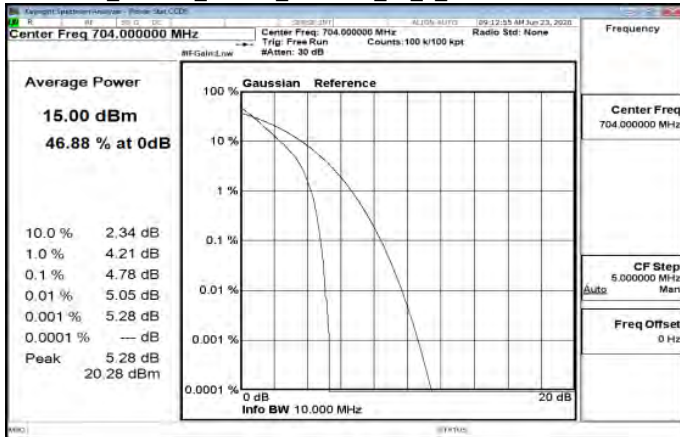


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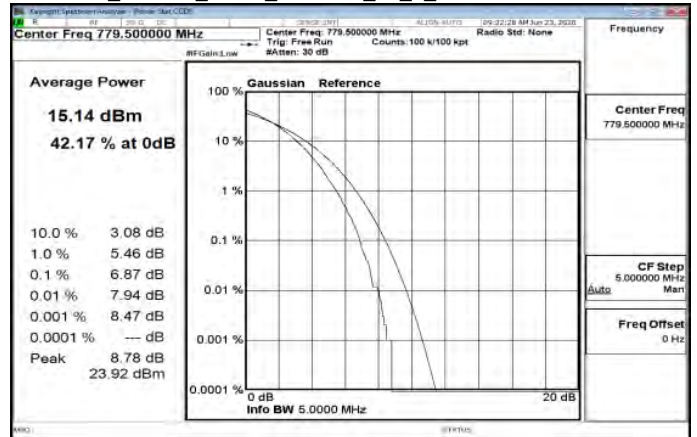
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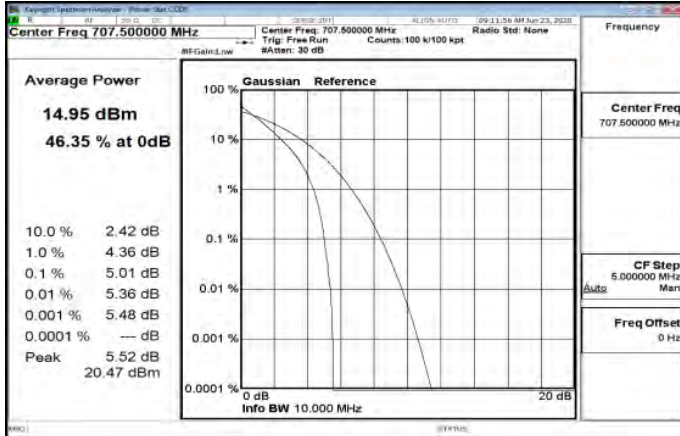
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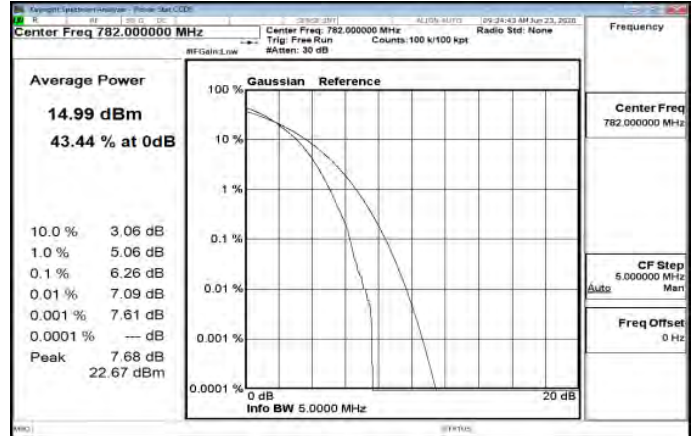
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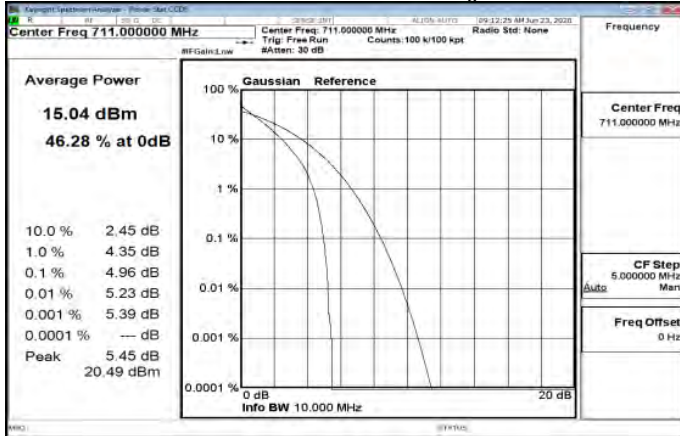
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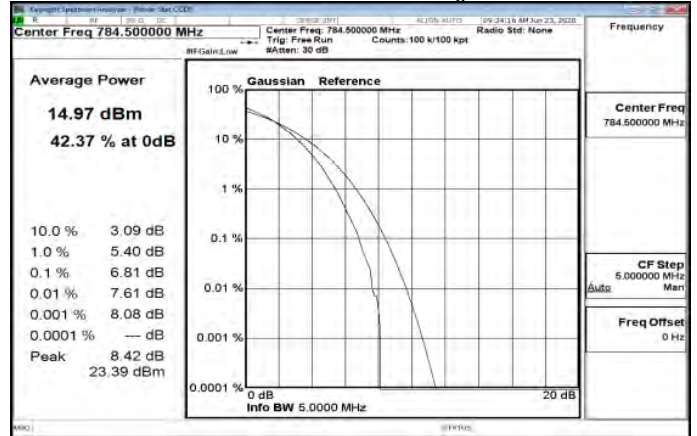
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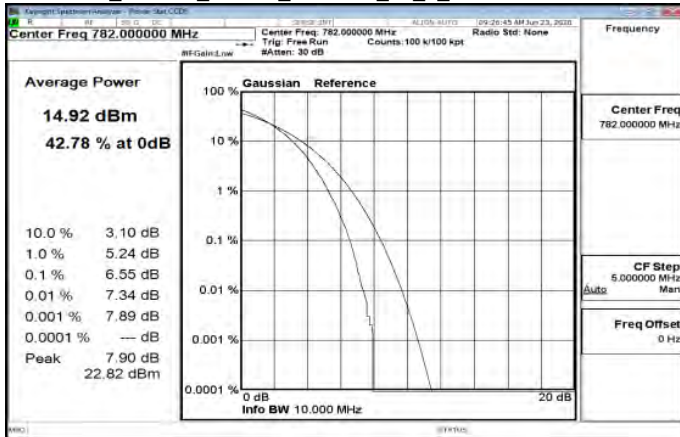


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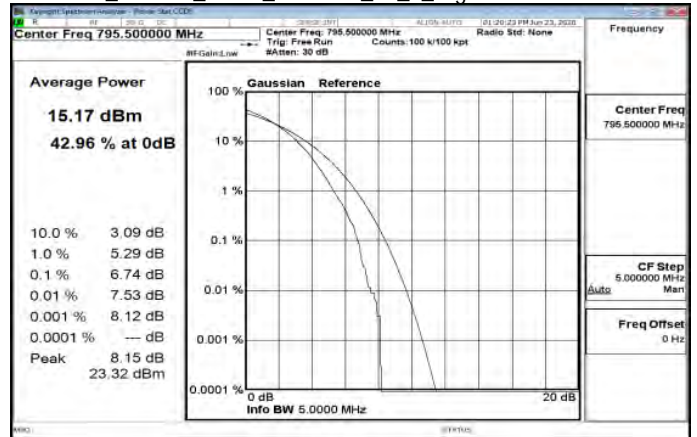
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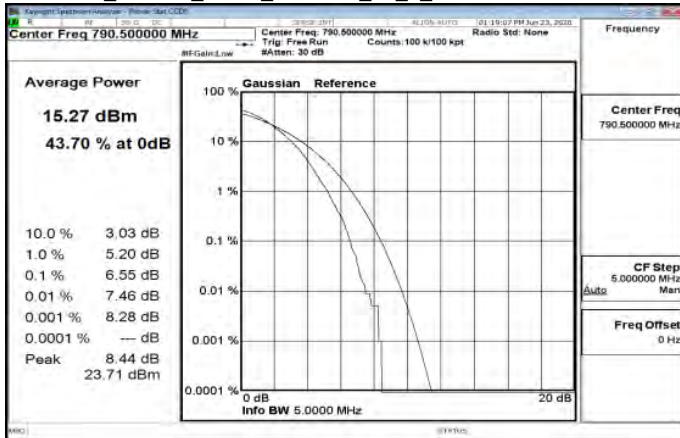
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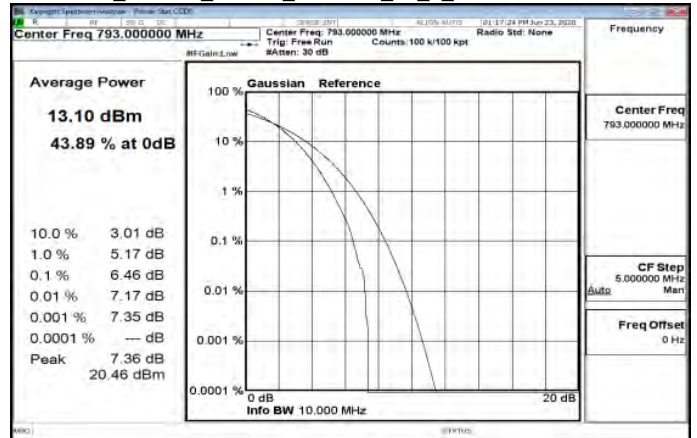
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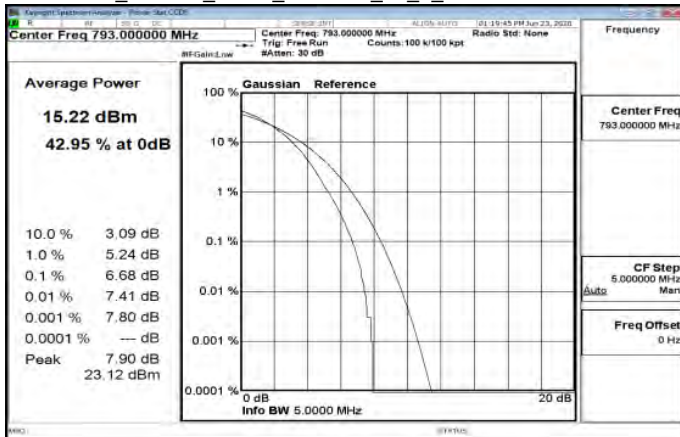
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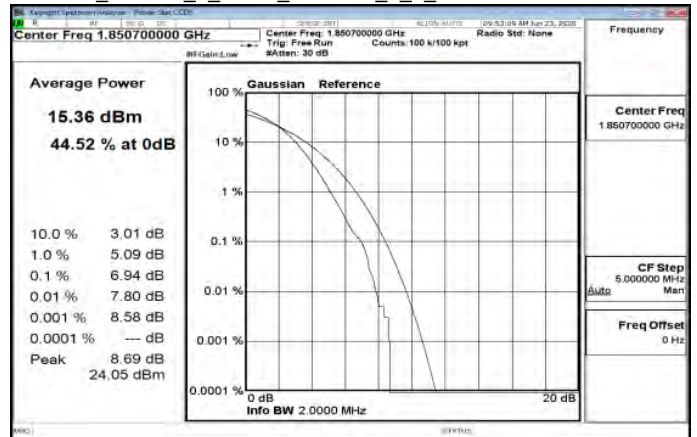
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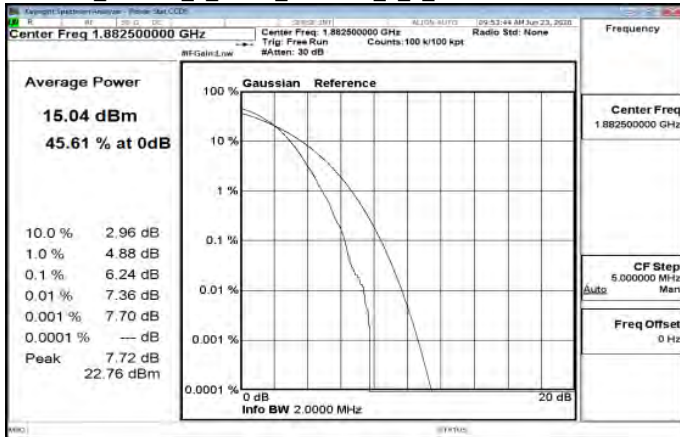


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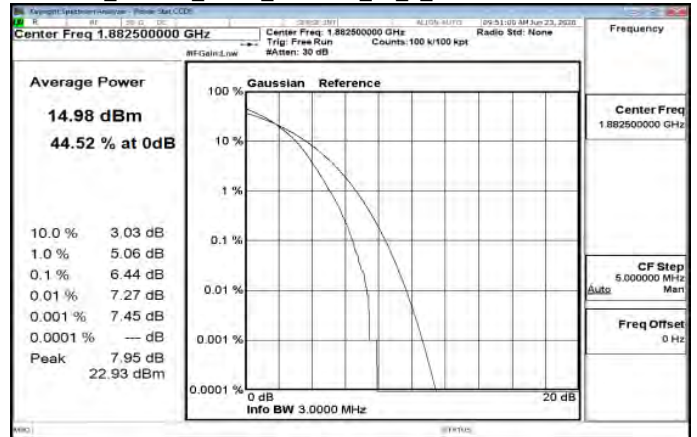
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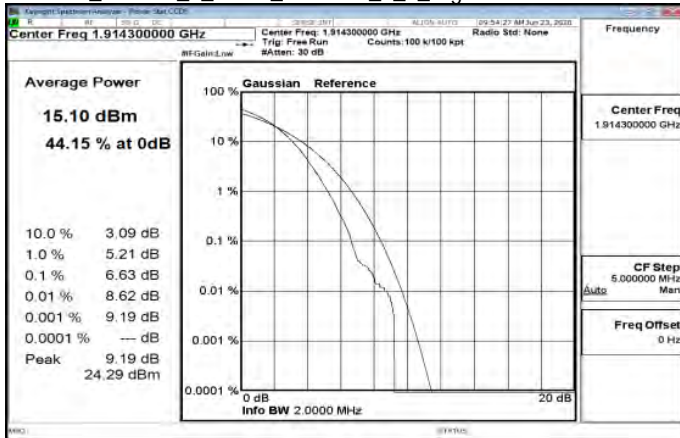
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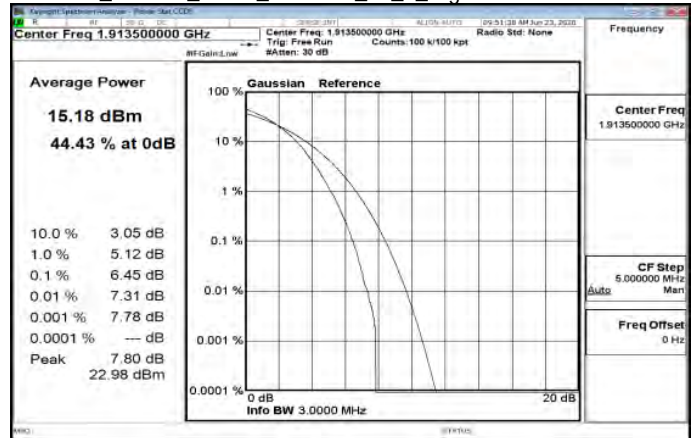
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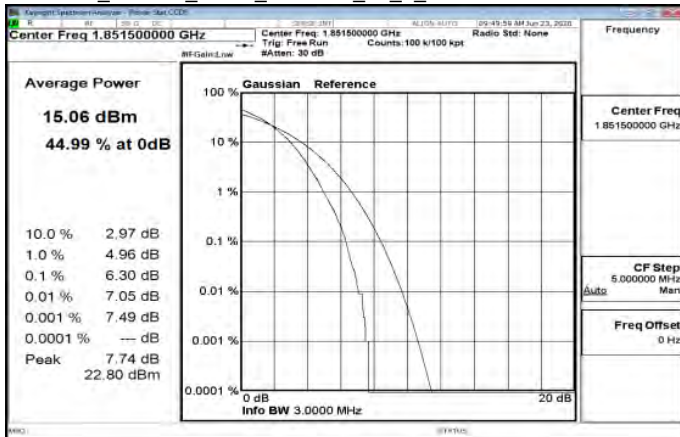
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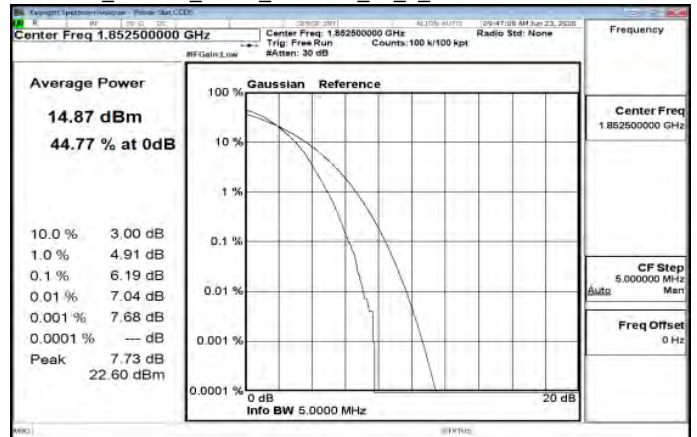
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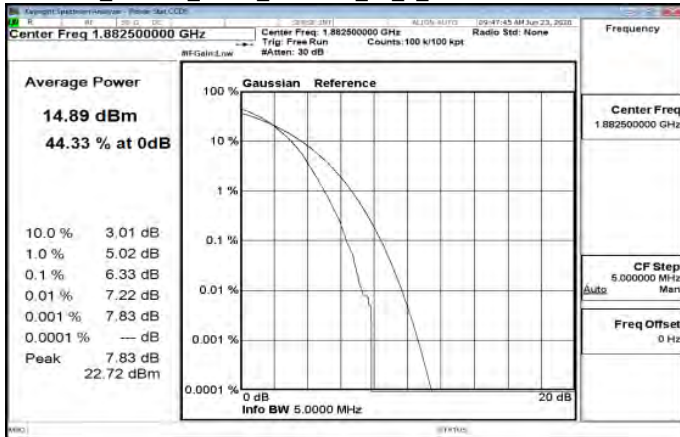


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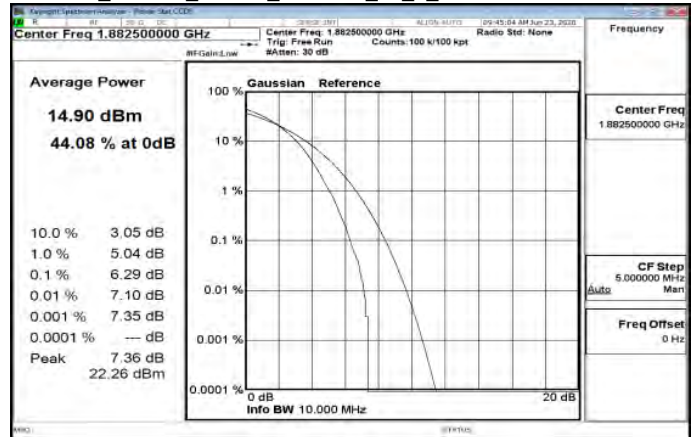
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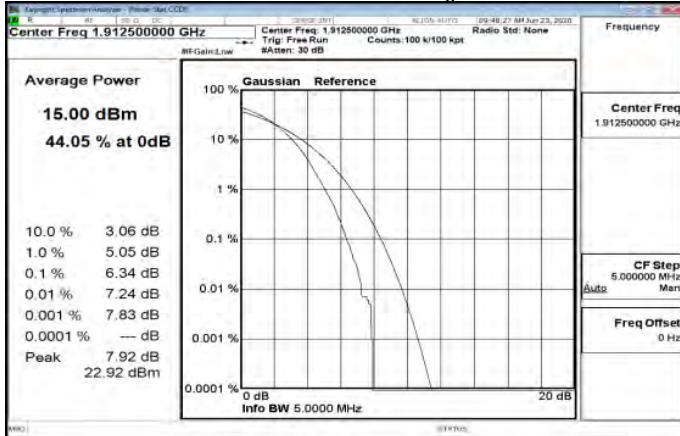
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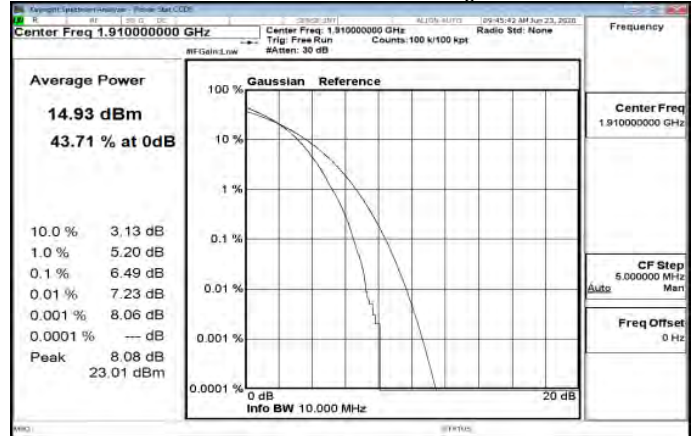
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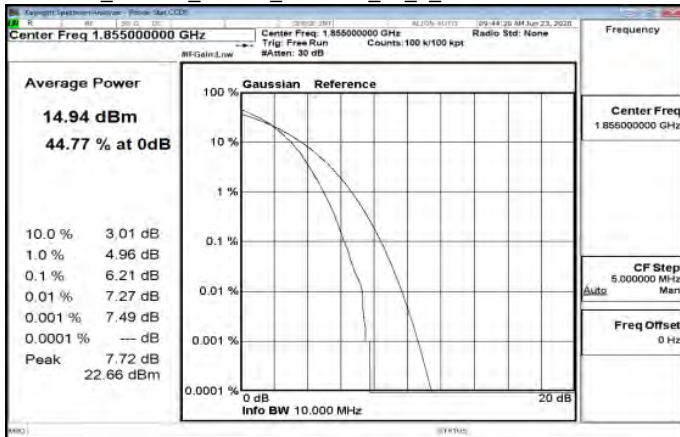
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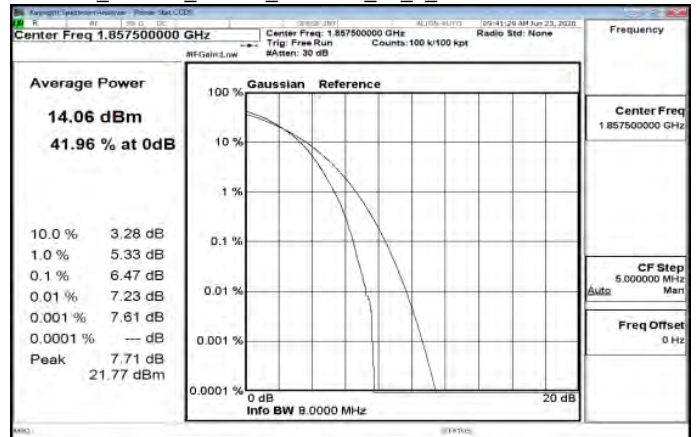
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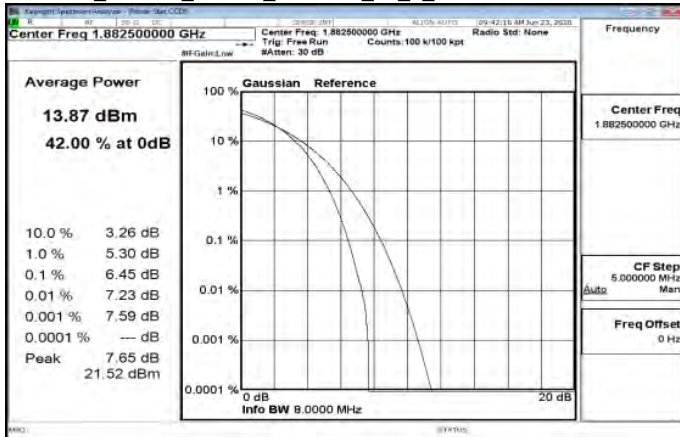


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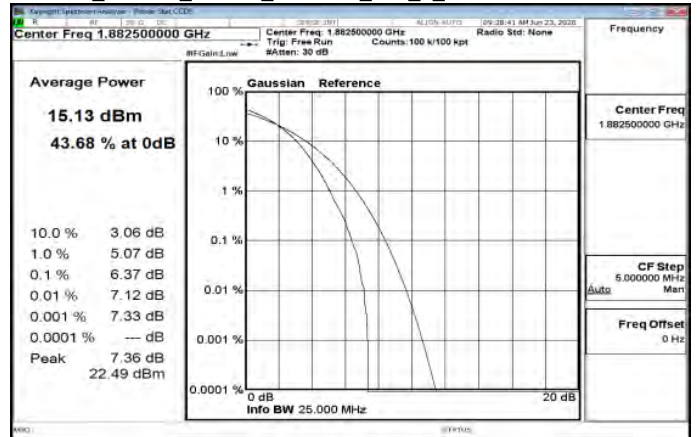
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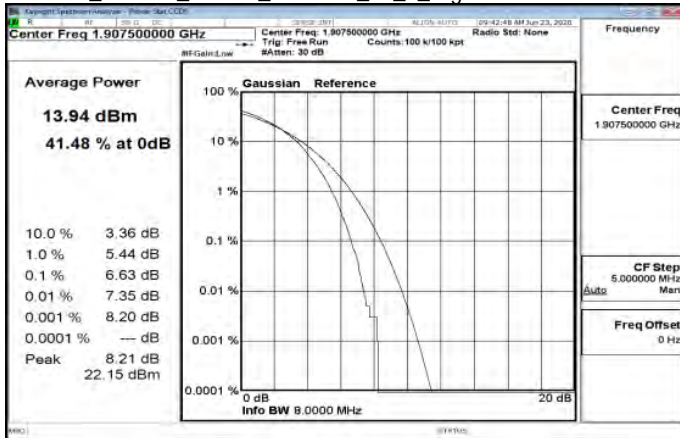
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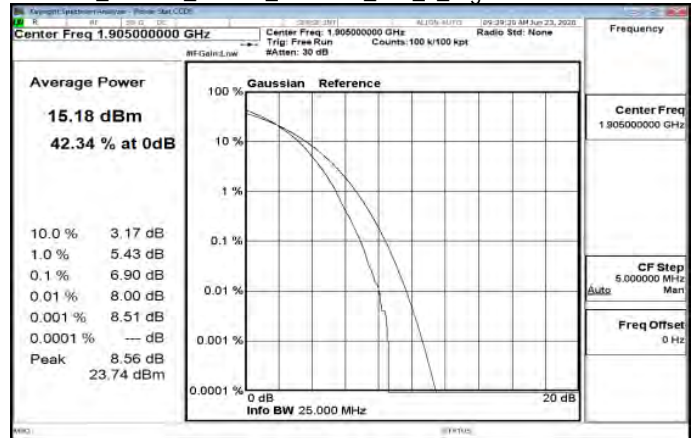
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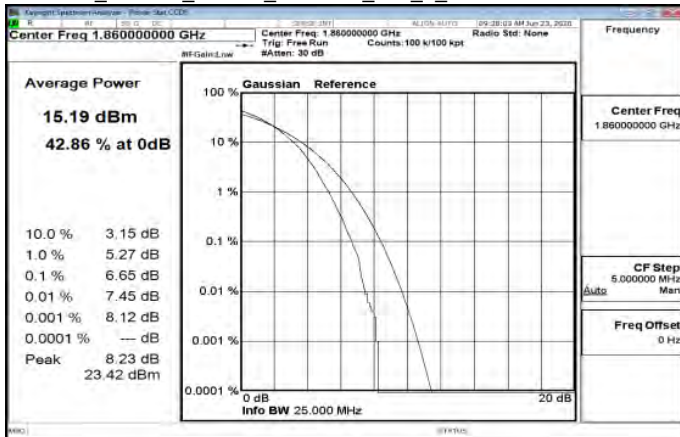
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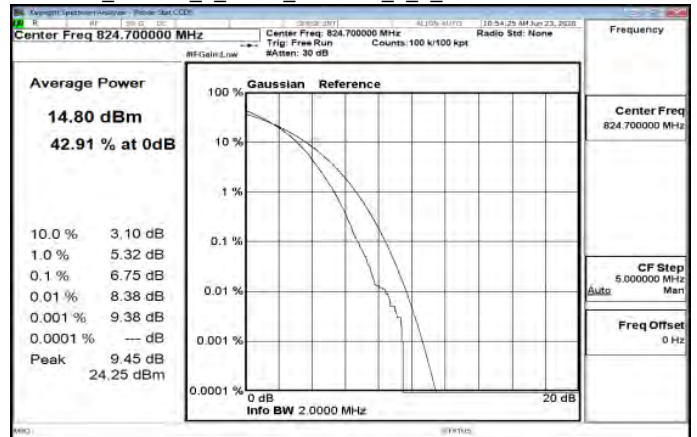
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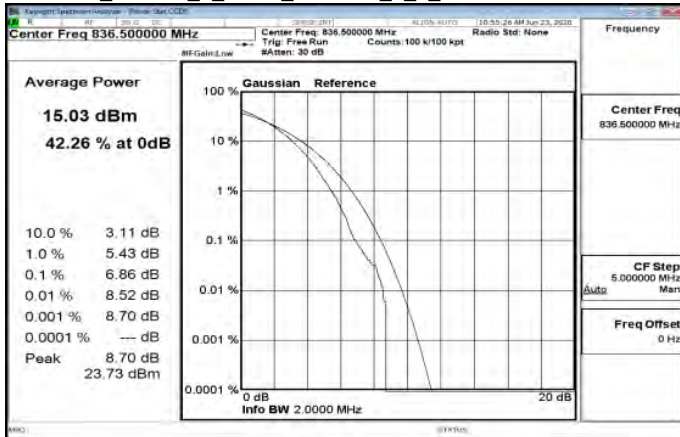


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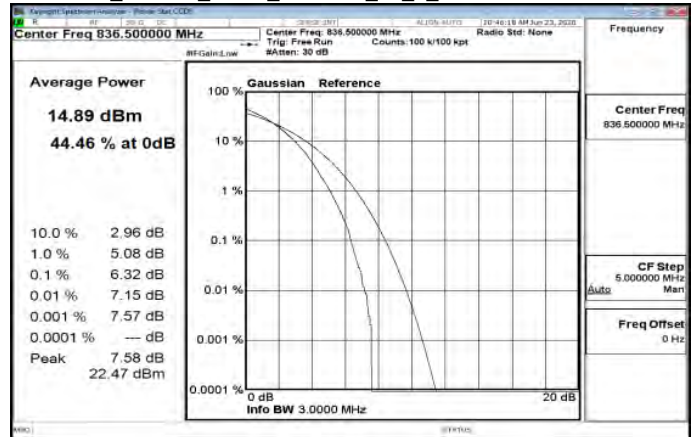
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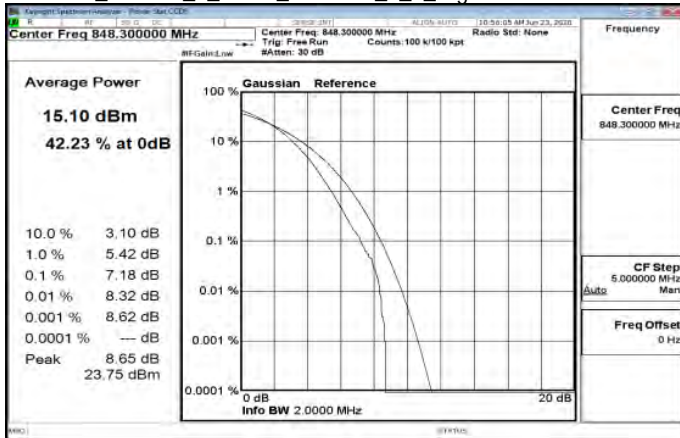
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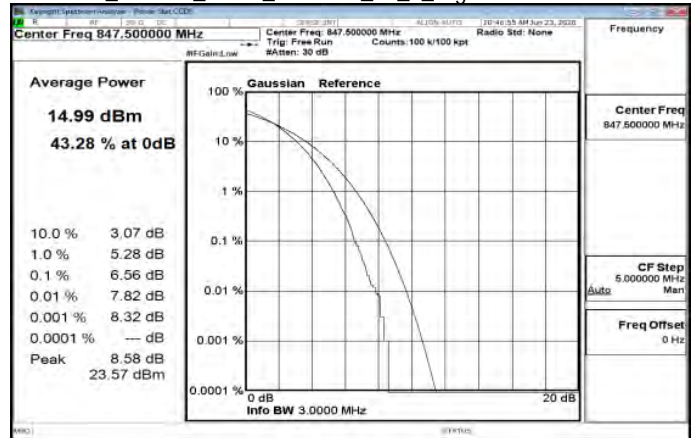
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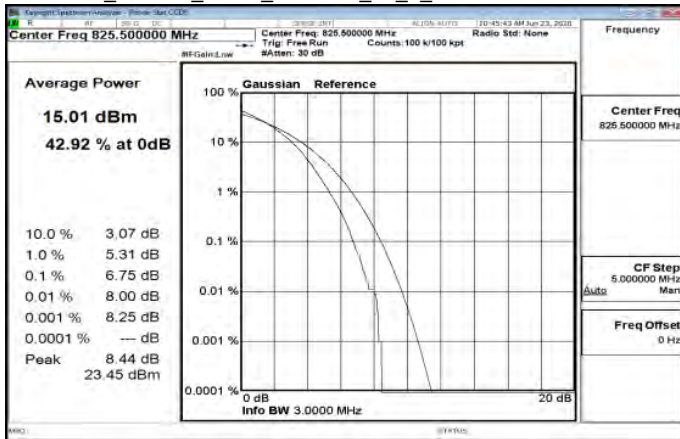
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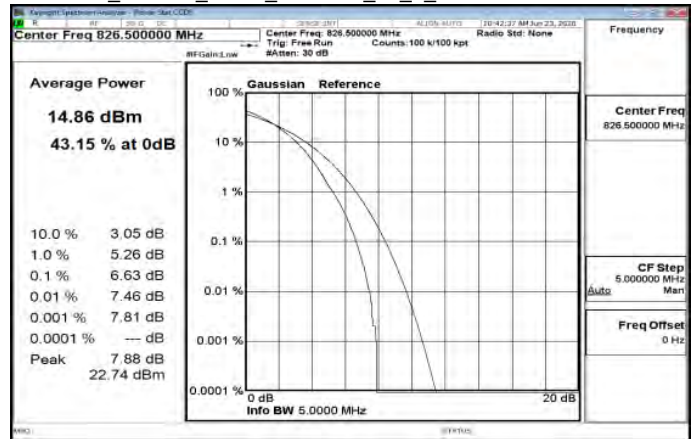
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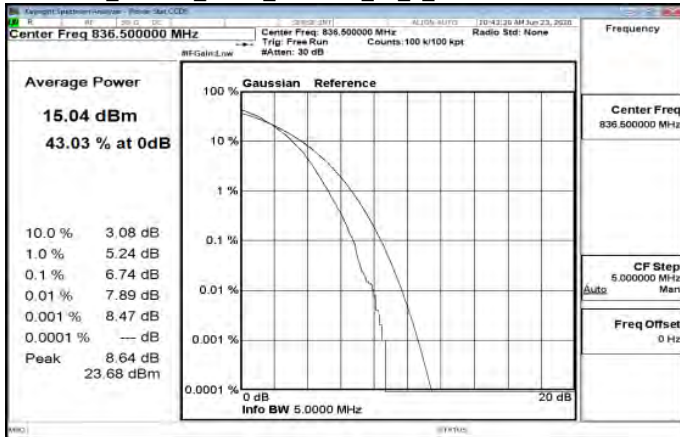


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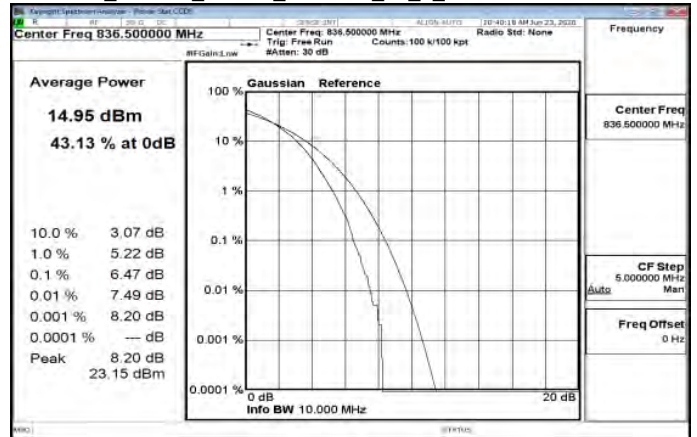
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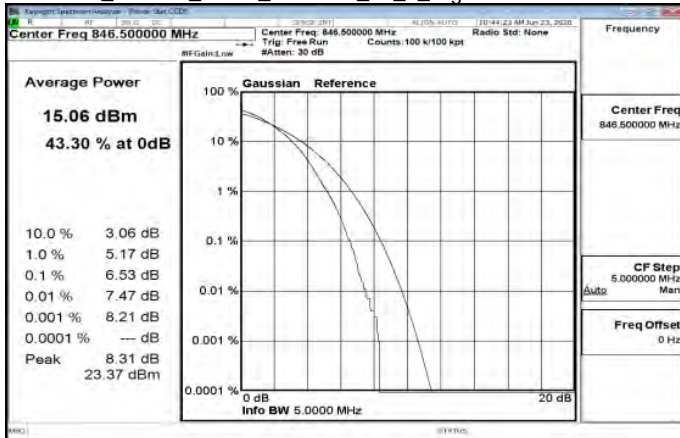
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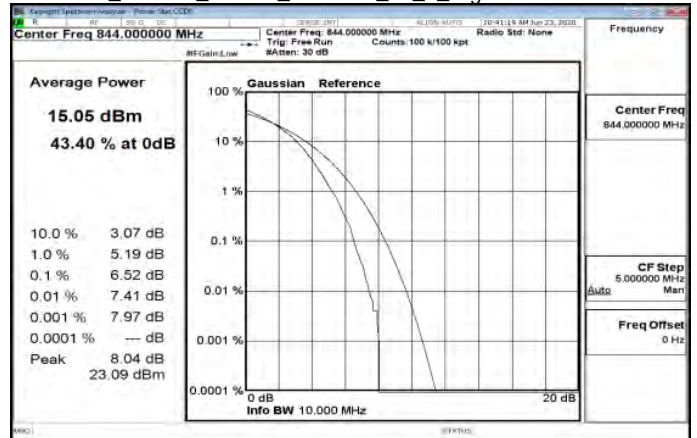
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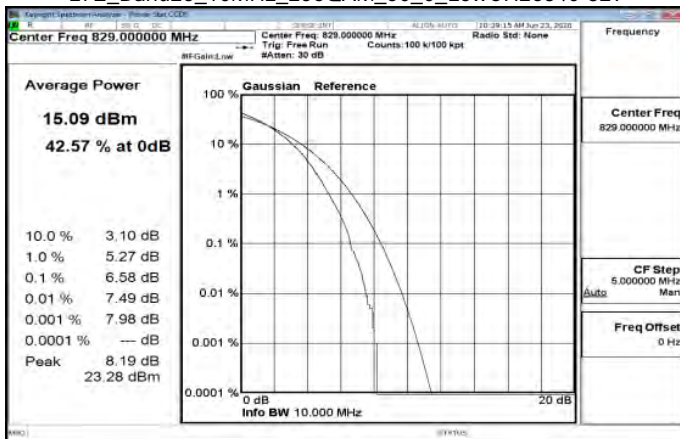
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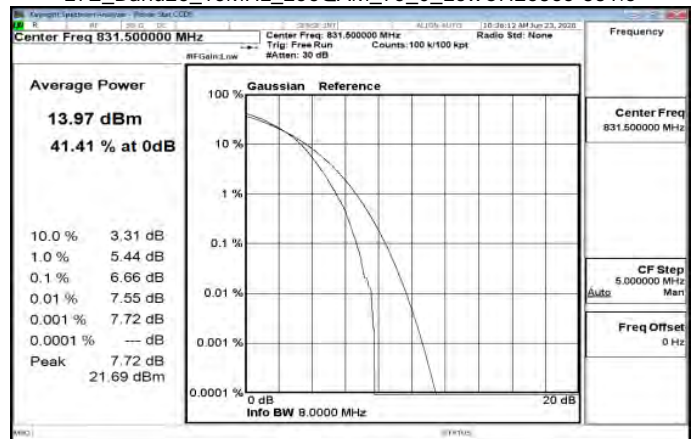
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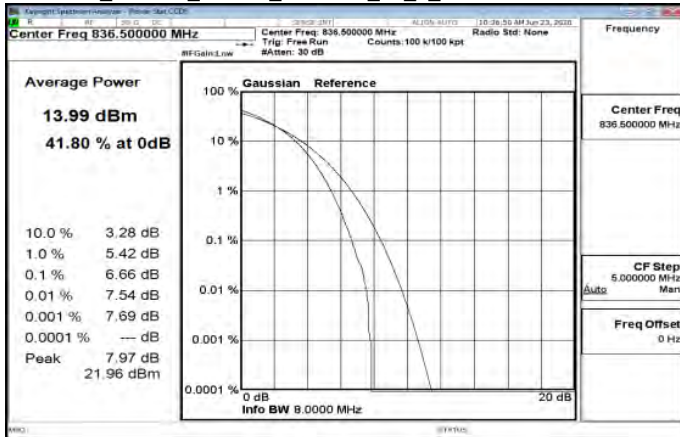


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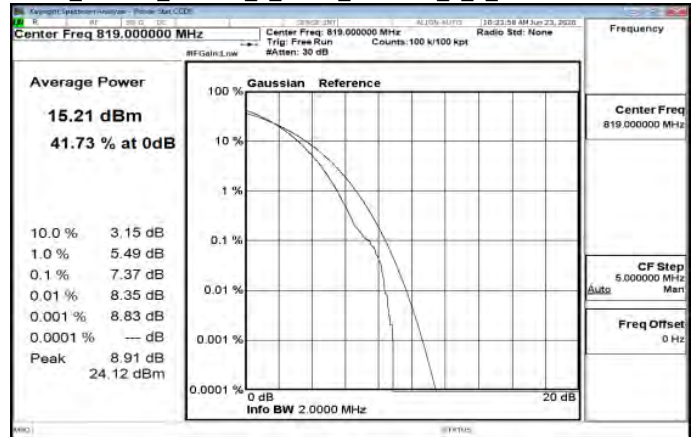
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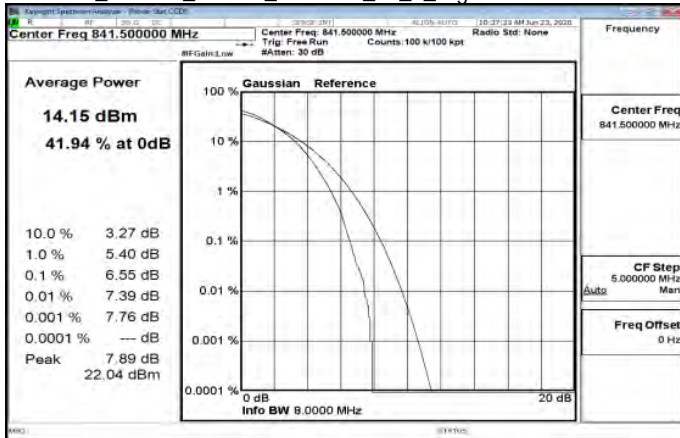
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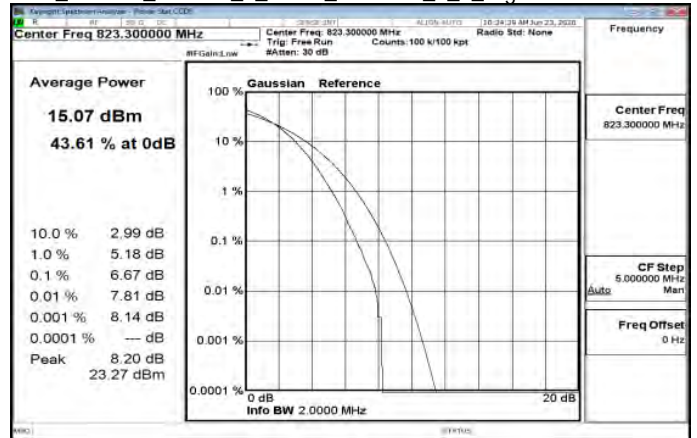
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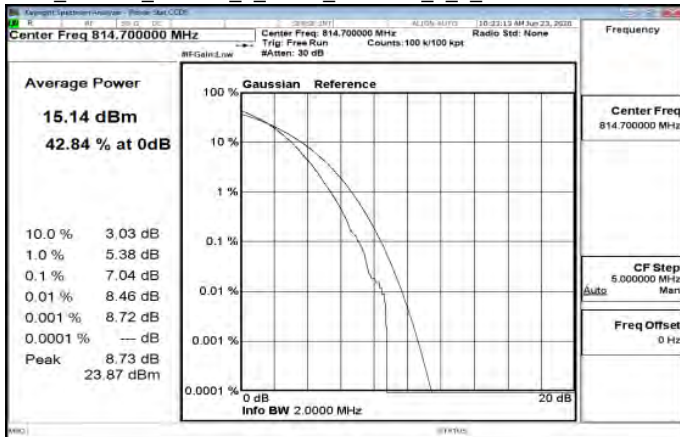
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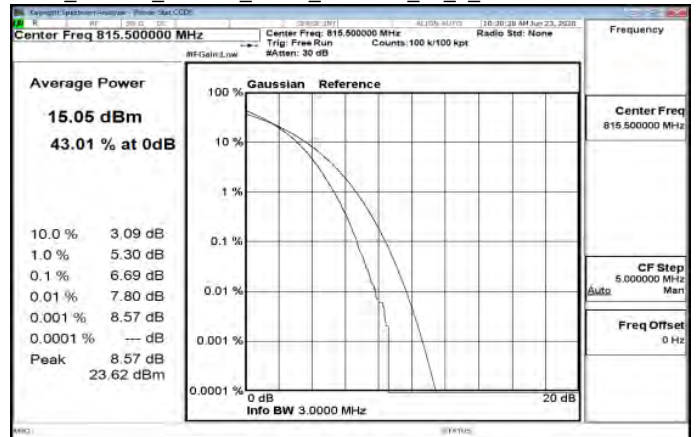
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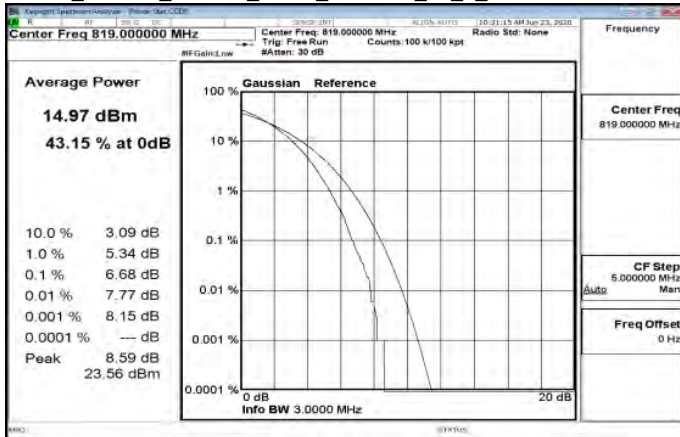


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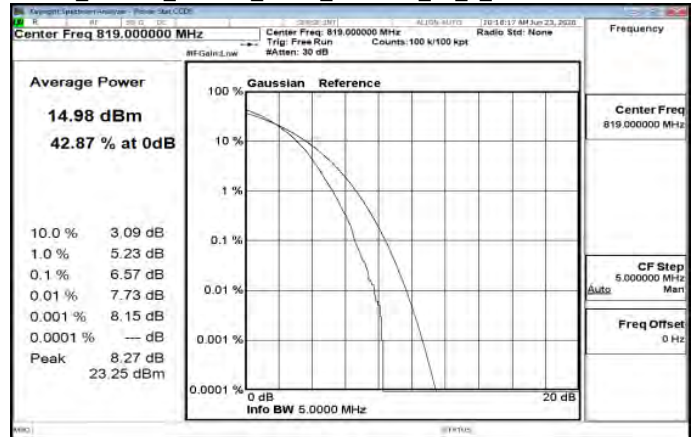
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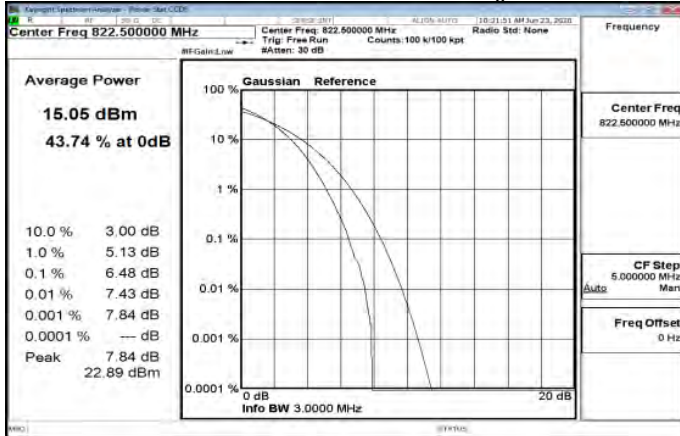
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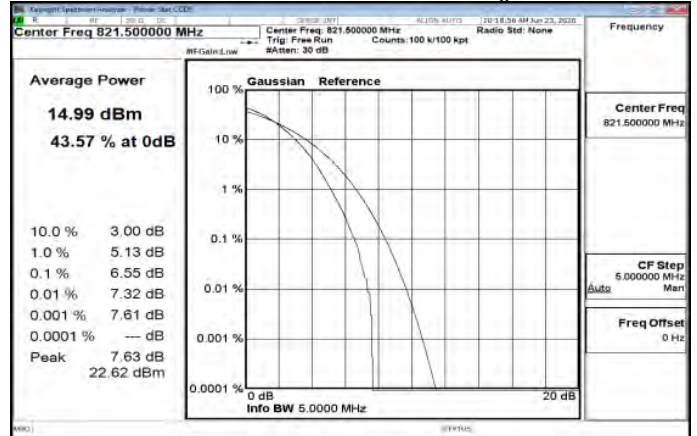
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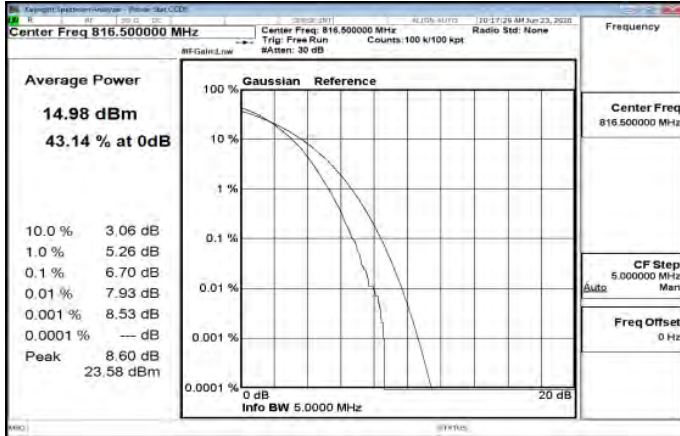
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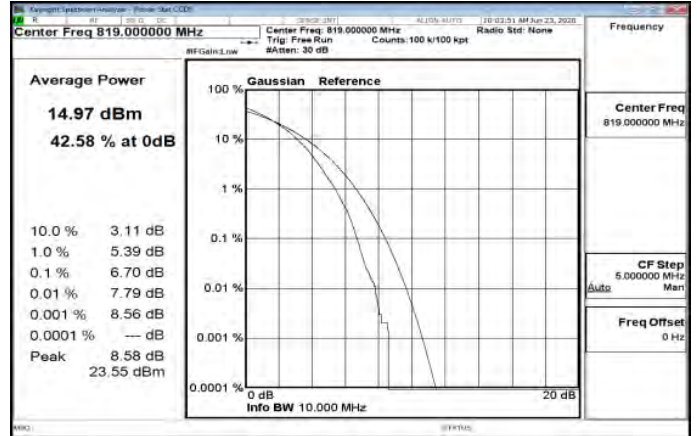
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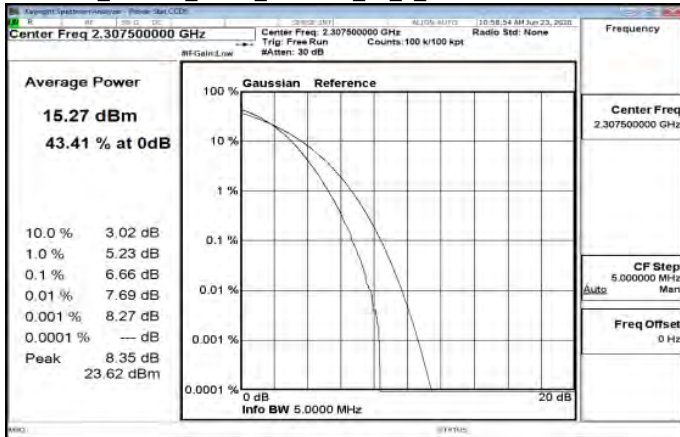


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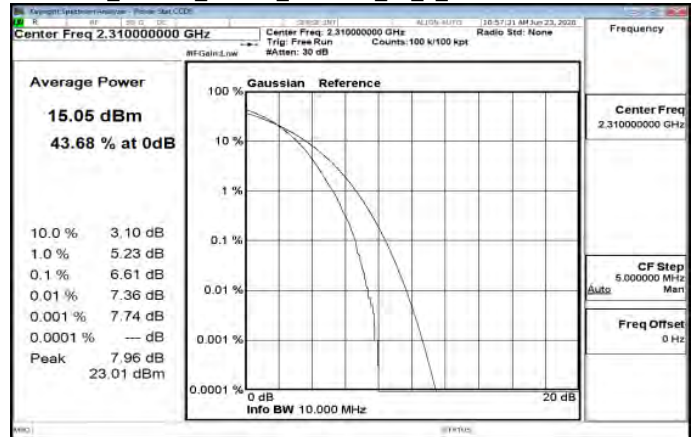
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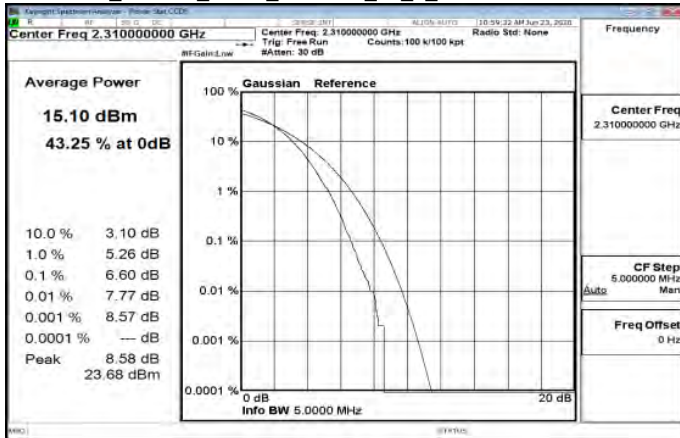
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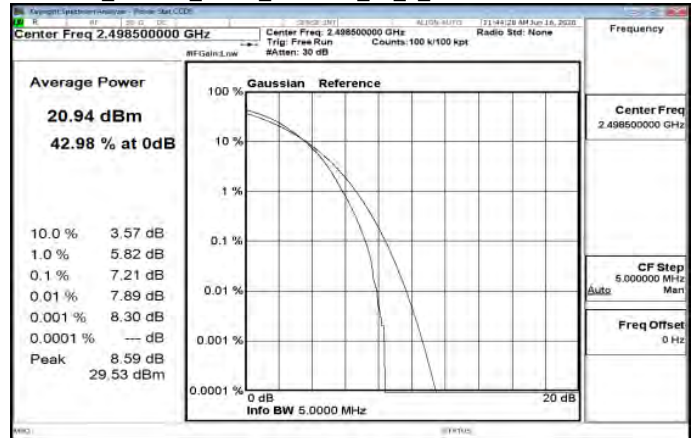
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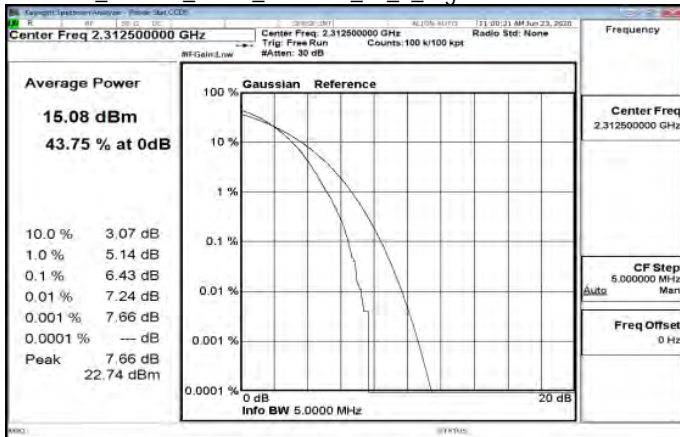
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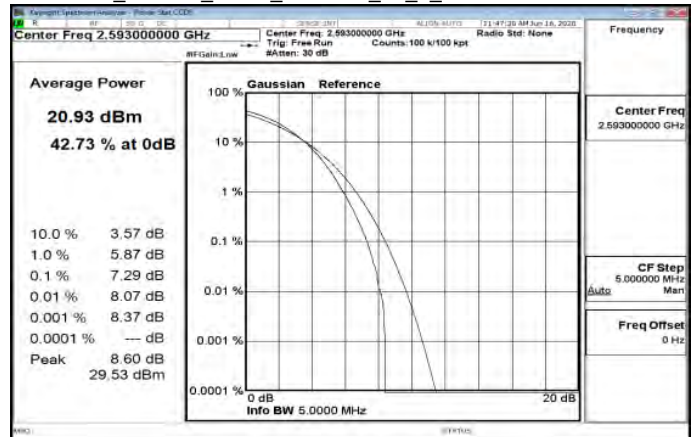
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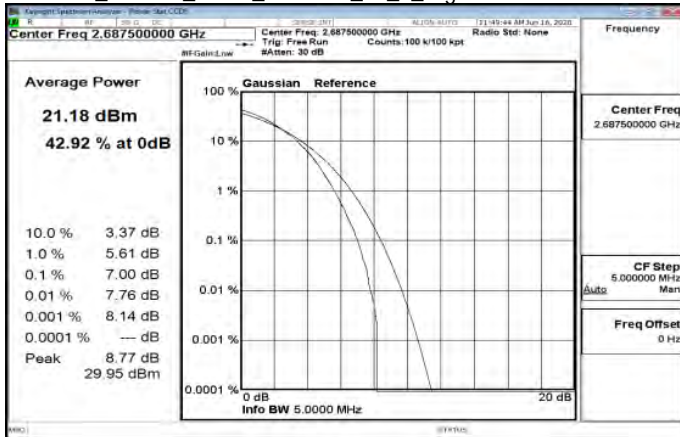


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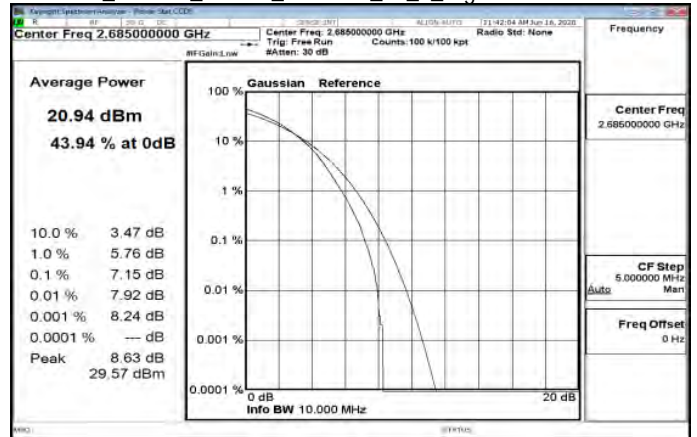
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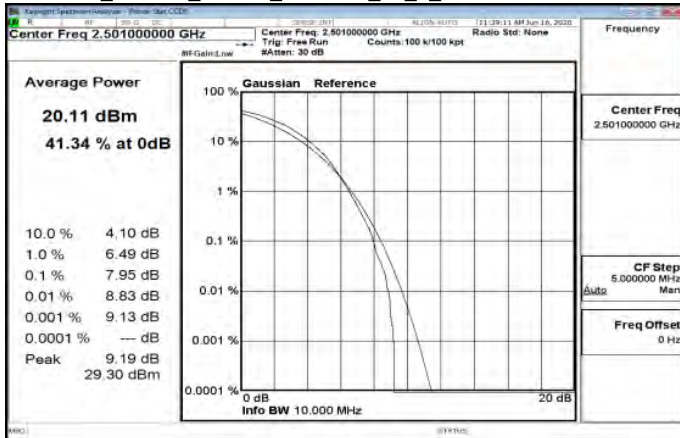
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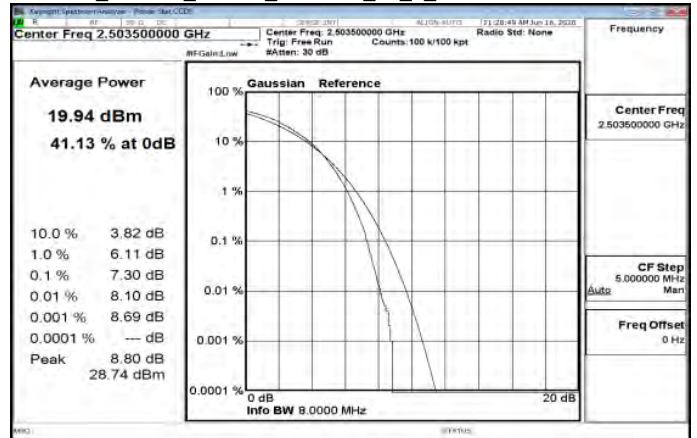
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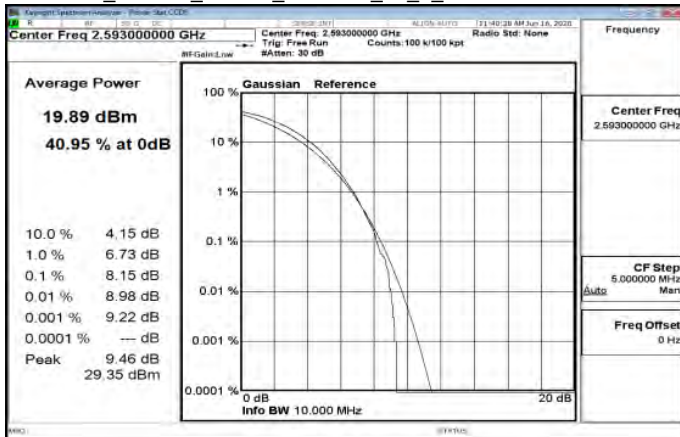
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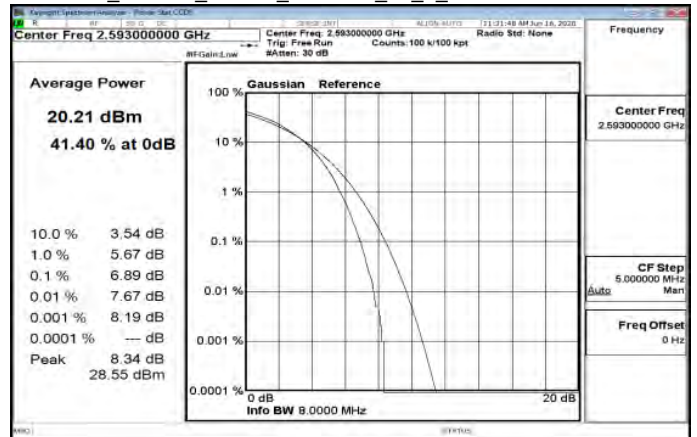
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LTE_Band41_10MHz_256QAM_50_0_MidCH40620-2593



LTE_Band41_15MHz_256QAM_75_0_MidCH40620-2593

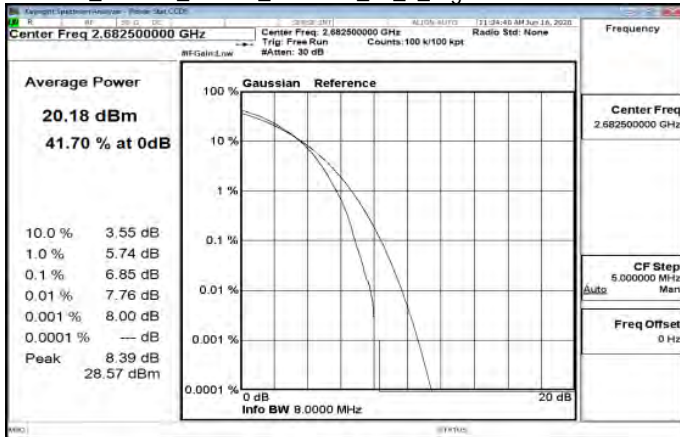


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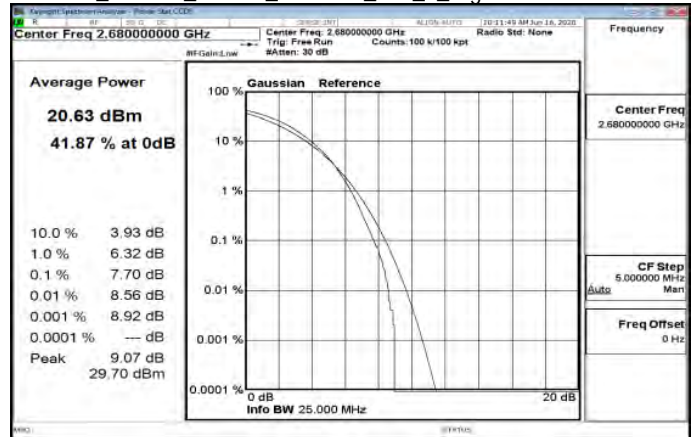
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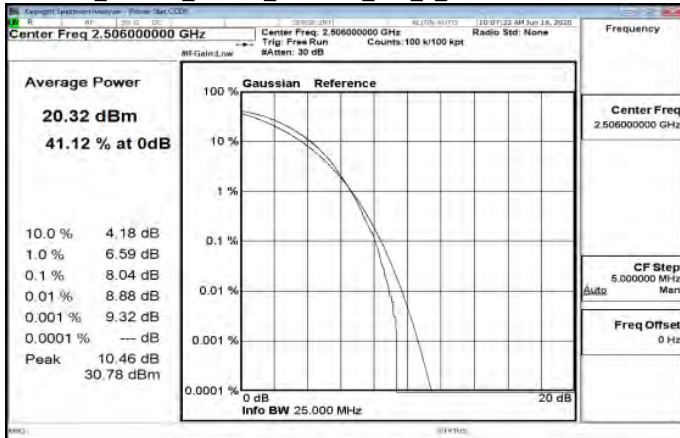
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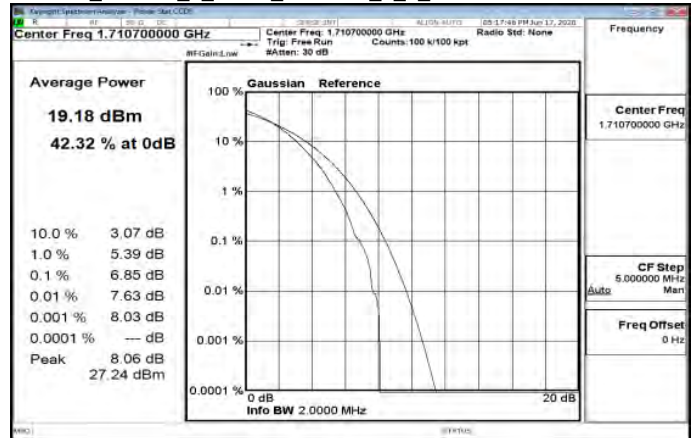
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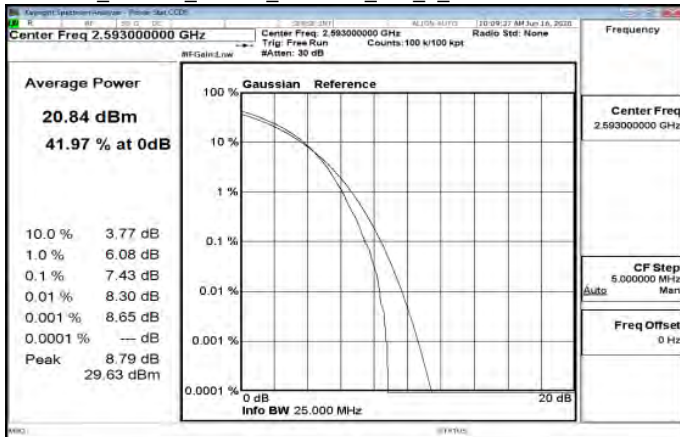
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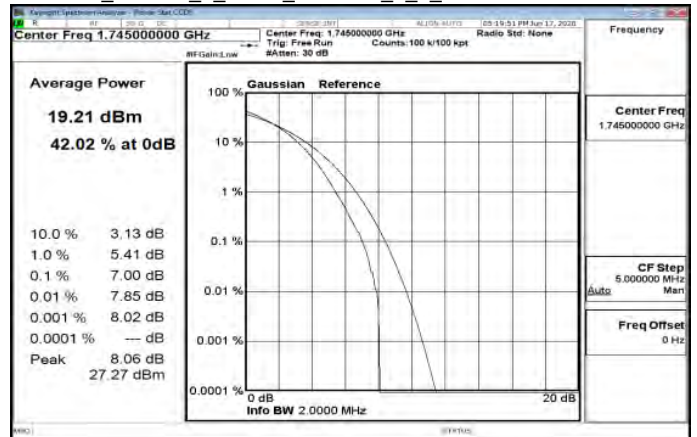
LTE_Band66_1_4MHz_256QAM_6_0_LowCH131979-1710.7



LTE_Band41_20MHz_256QAM_100_0_MidCH40620-2593



LTE_Band66_1_4MHz_256QAM_6_0_MidCH132322-1745

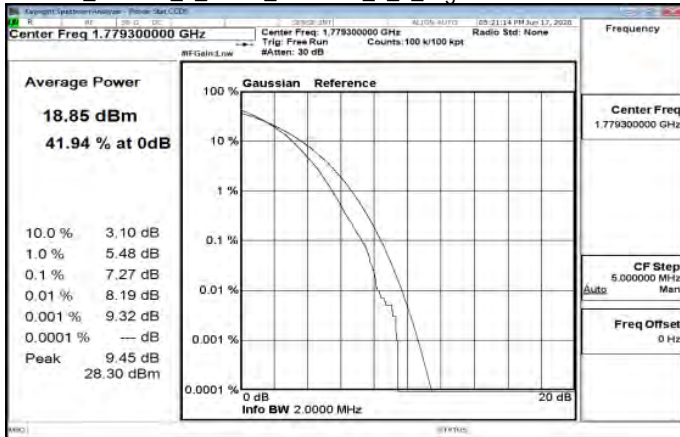


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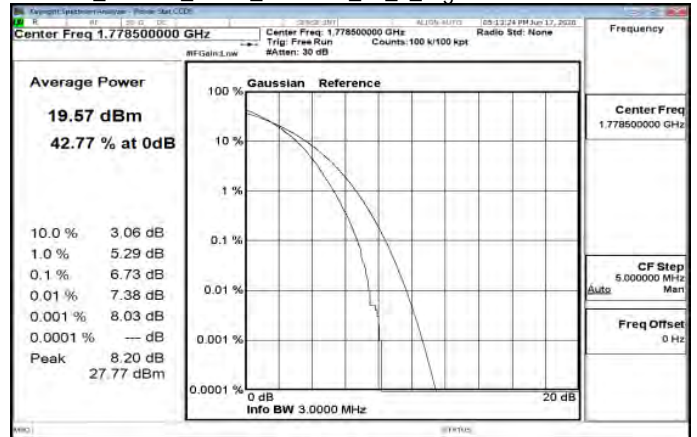
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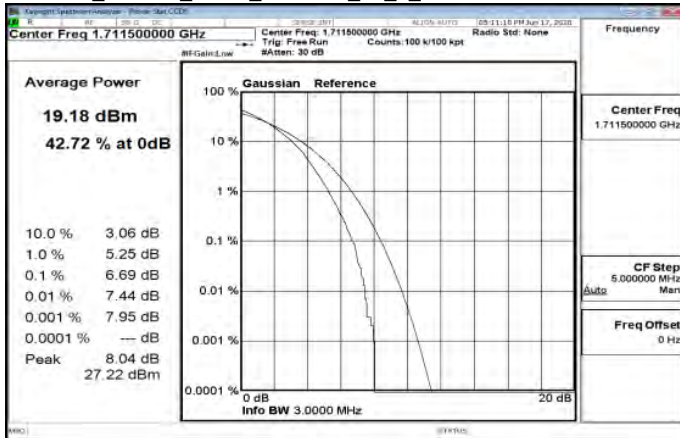
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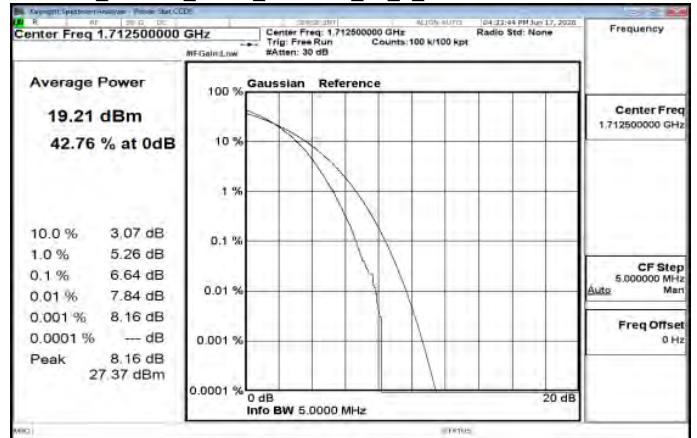
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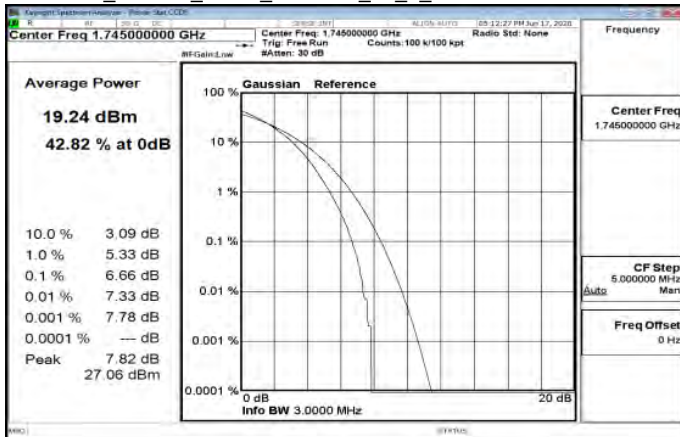
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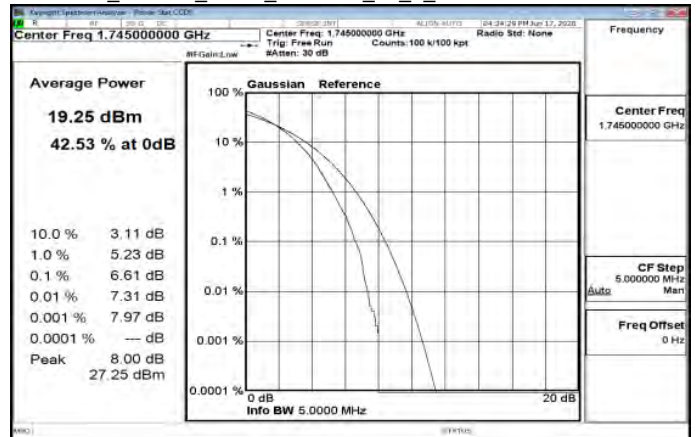
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LTE_Band66_3MHz_256QAM_15_0_MidCH132322-1745



LTE_Band66_5MHz_256QAM_25_0_MidCH132322-1745



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