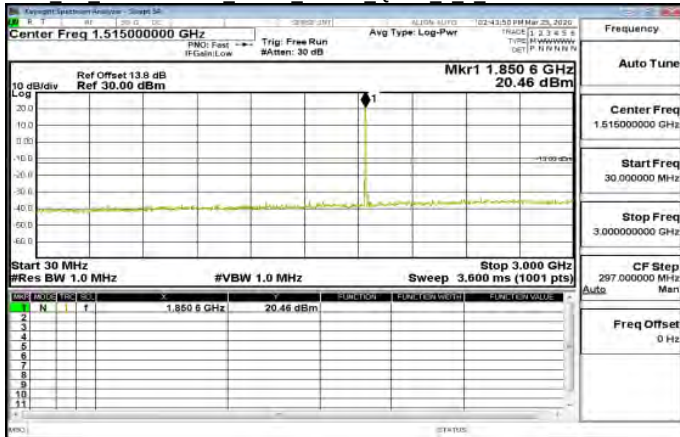
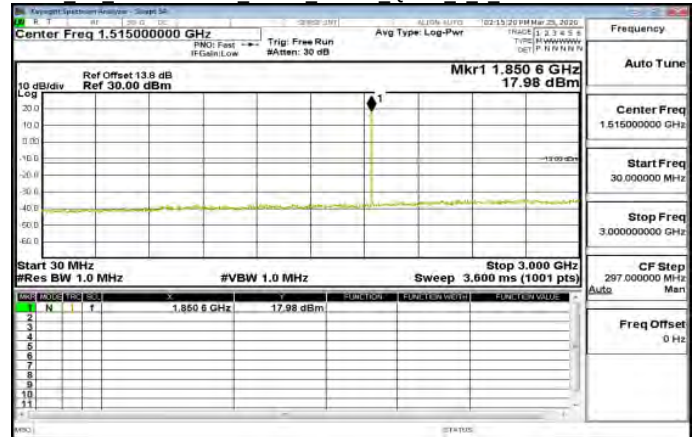


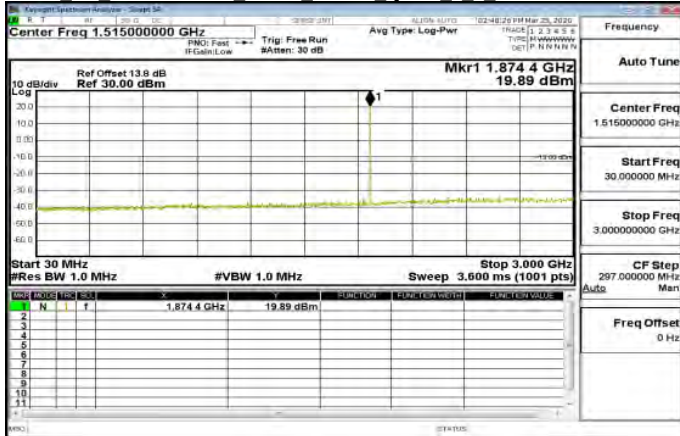
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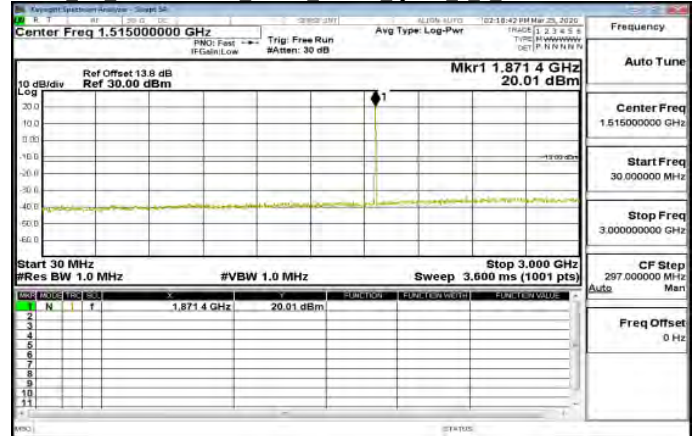
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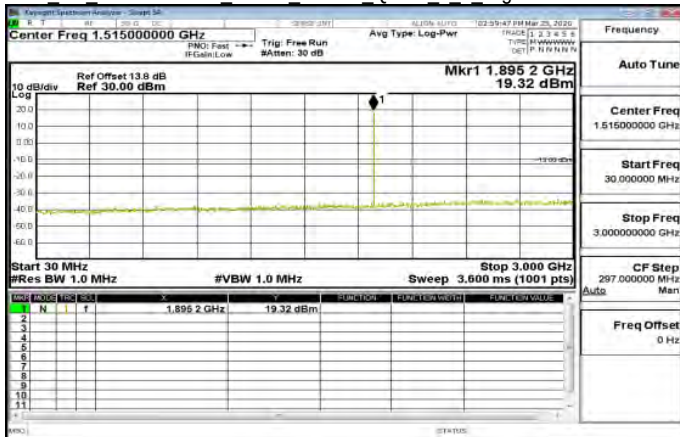
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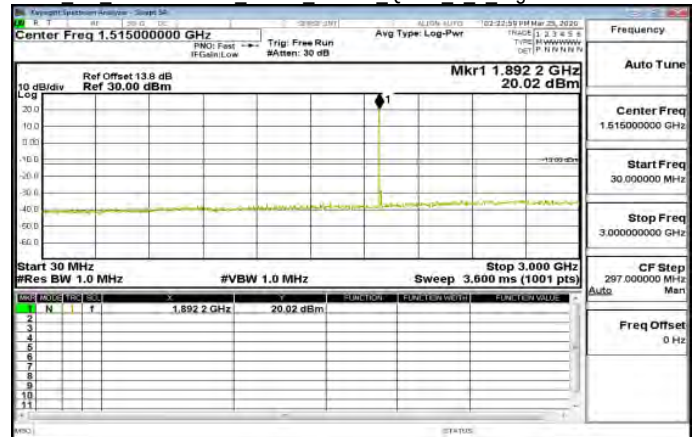
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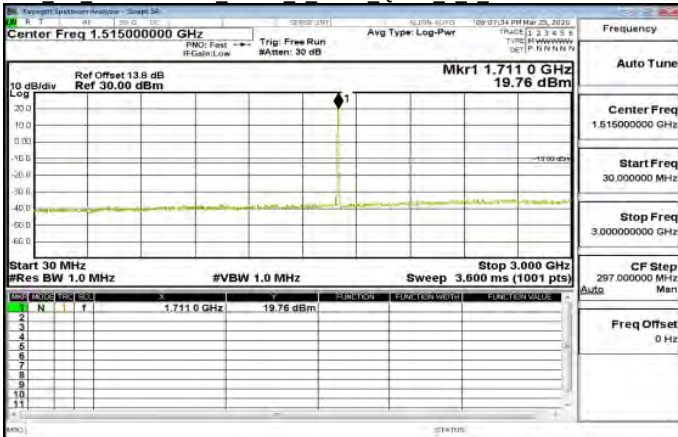


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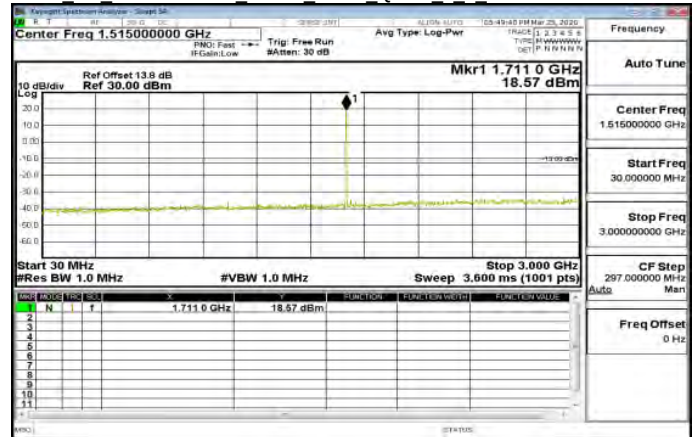
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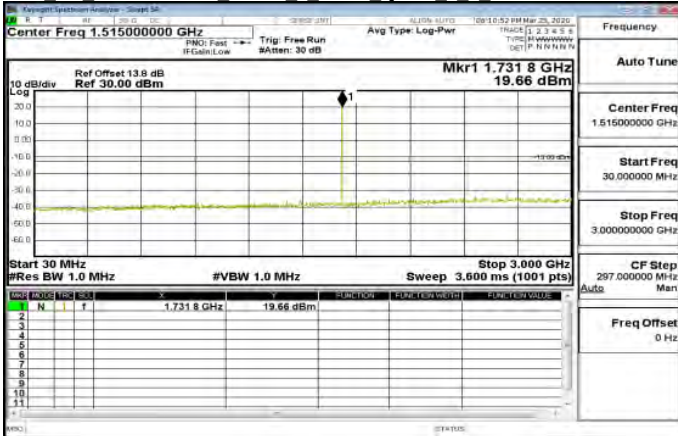
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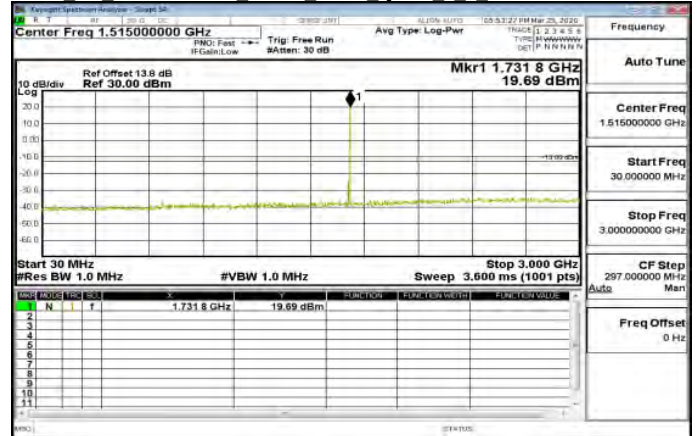
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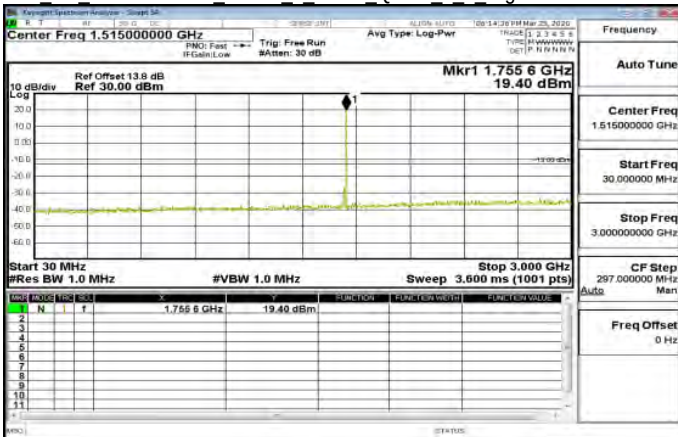
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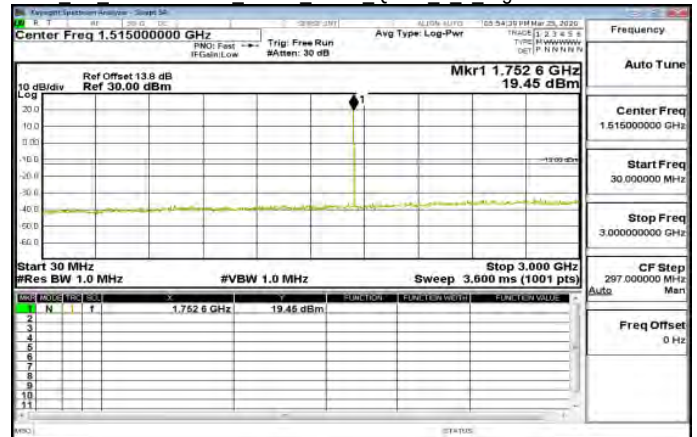
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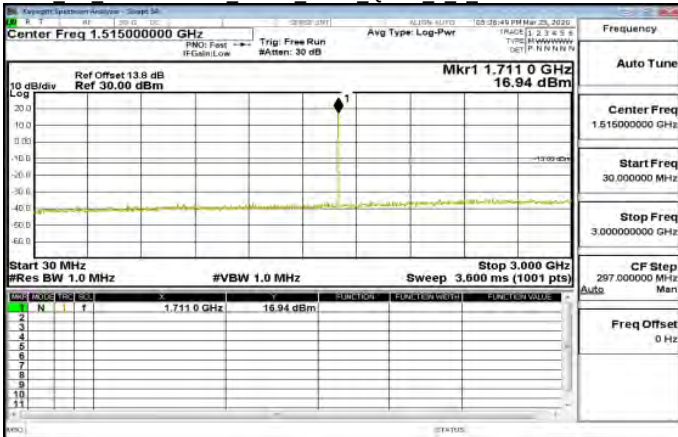


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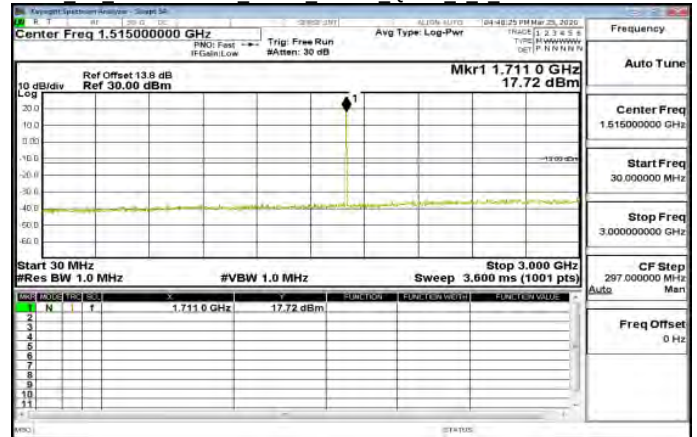
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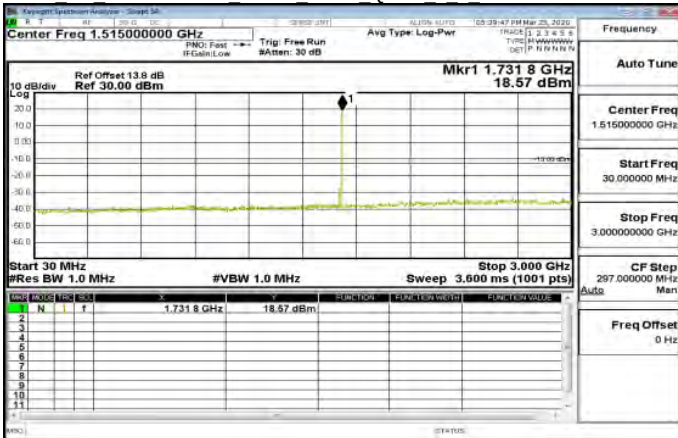
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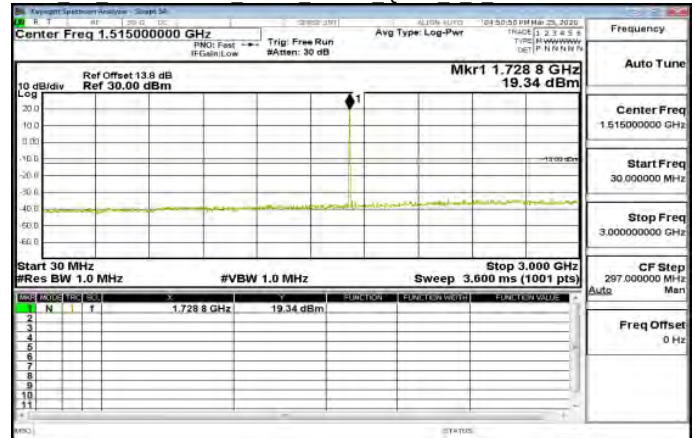
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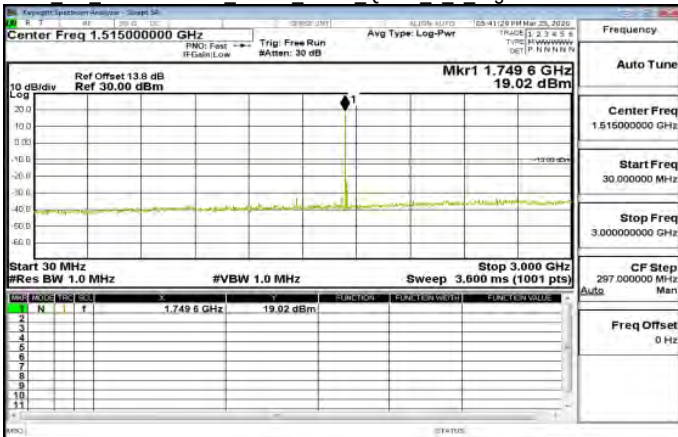
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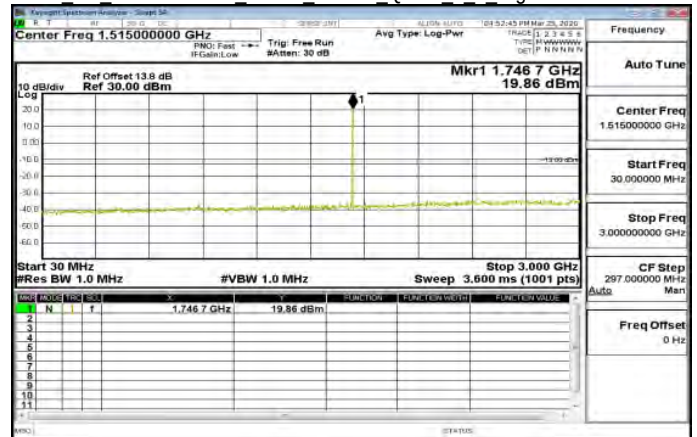
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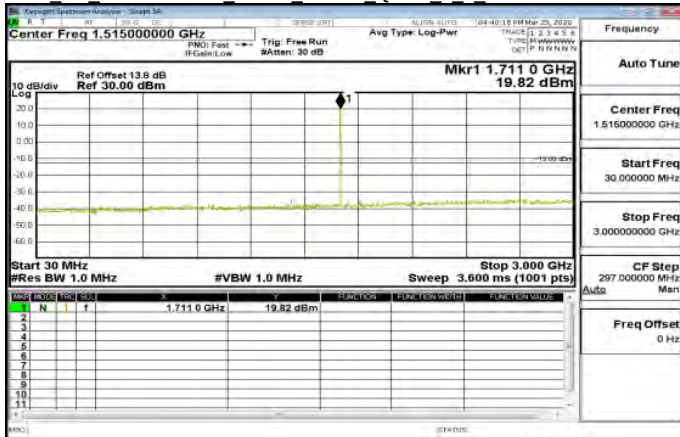


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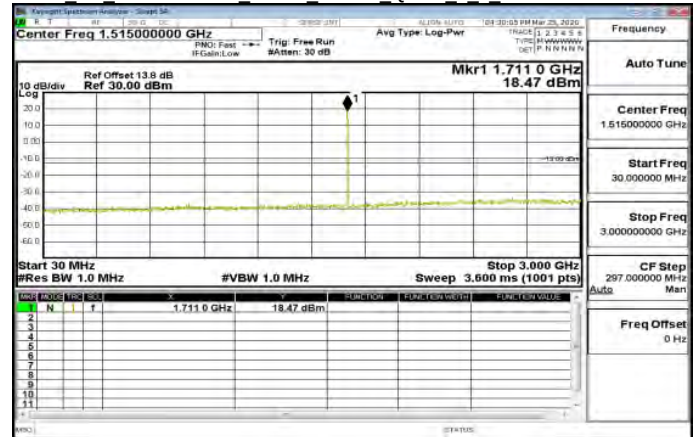
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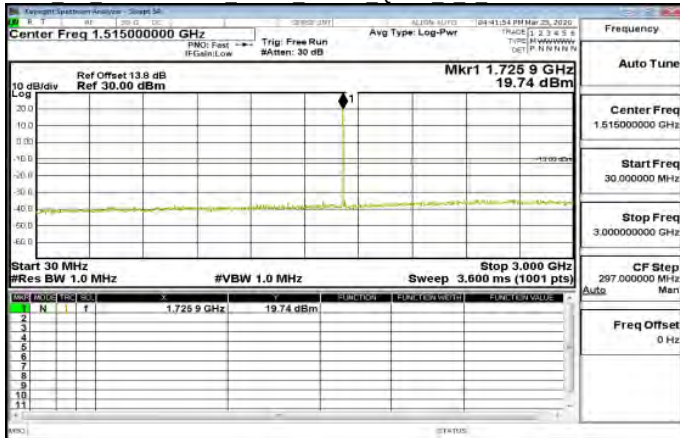
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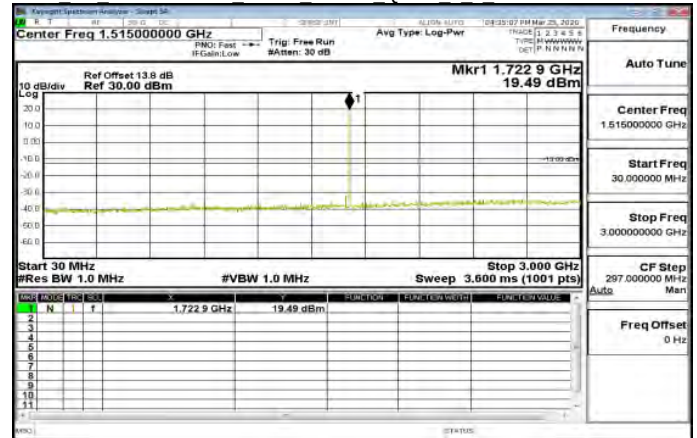
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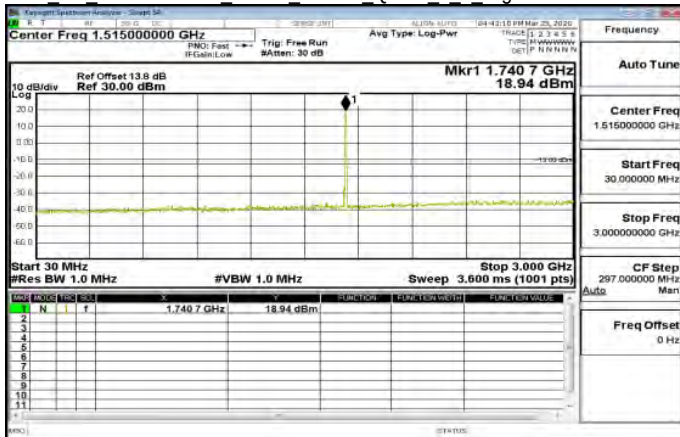
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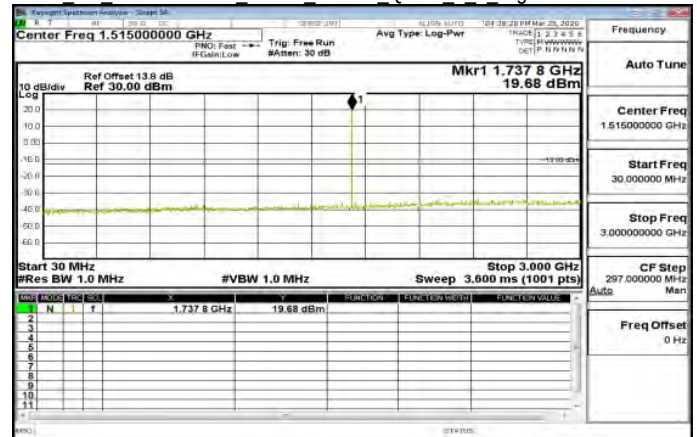
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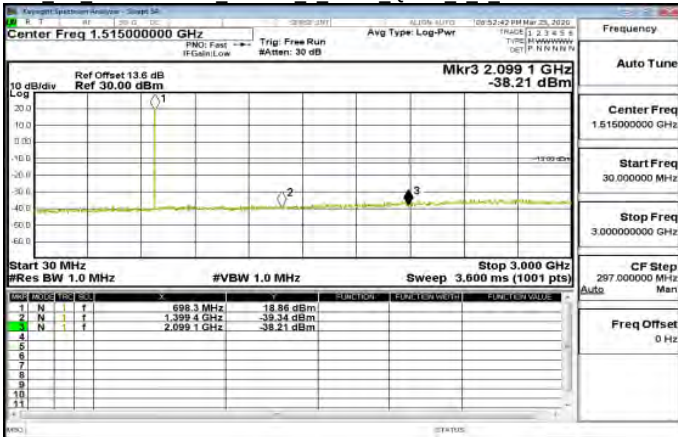


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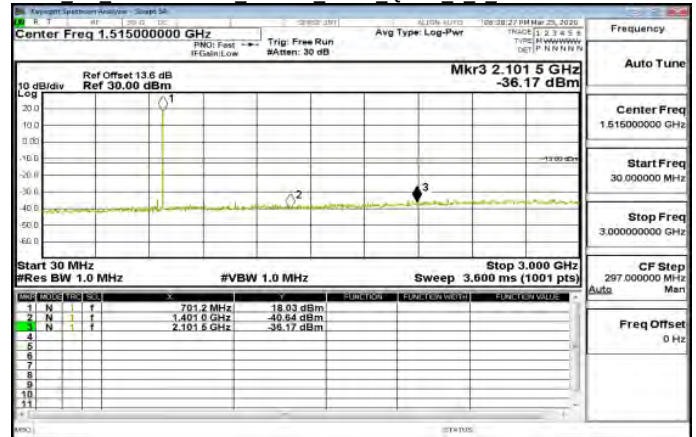
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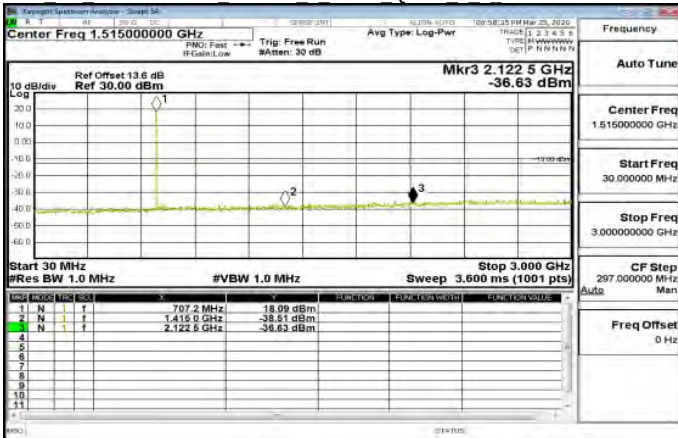
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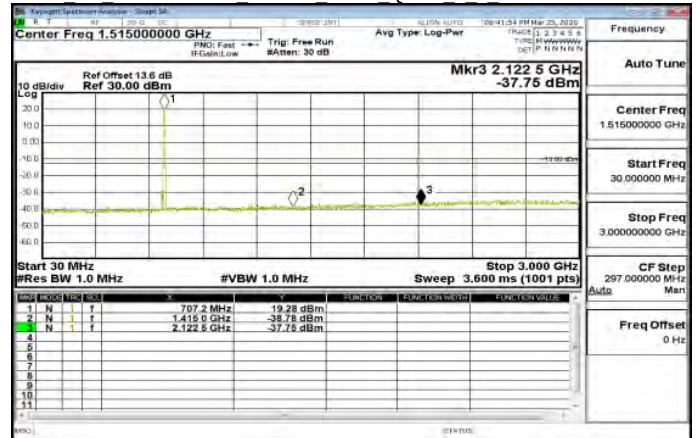
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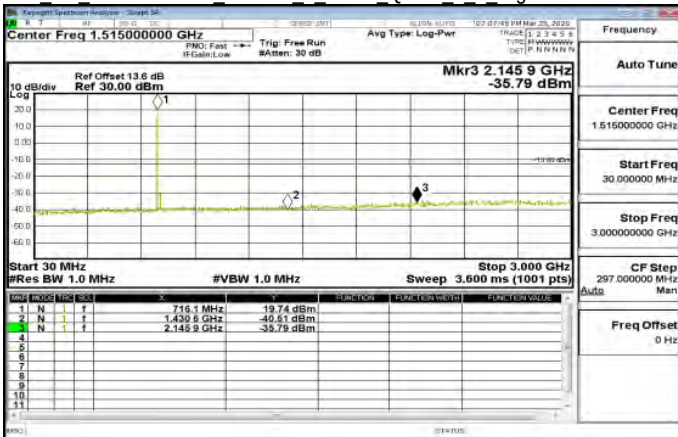
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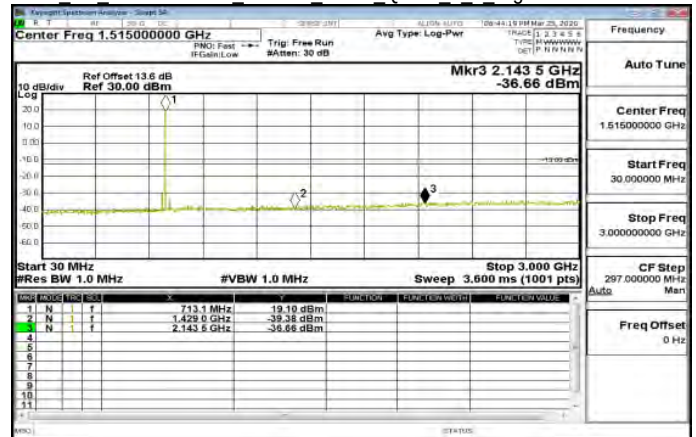
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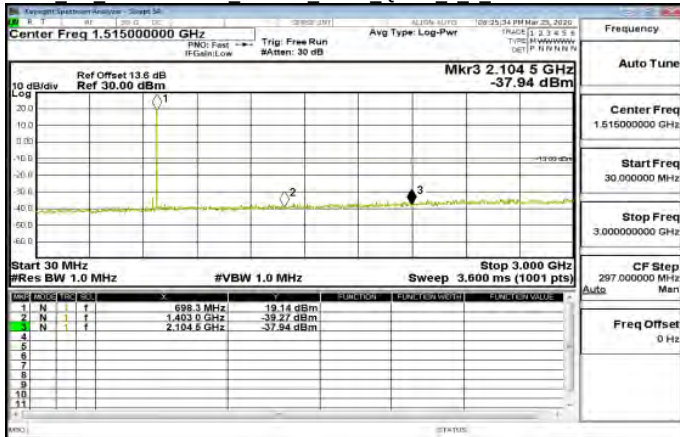


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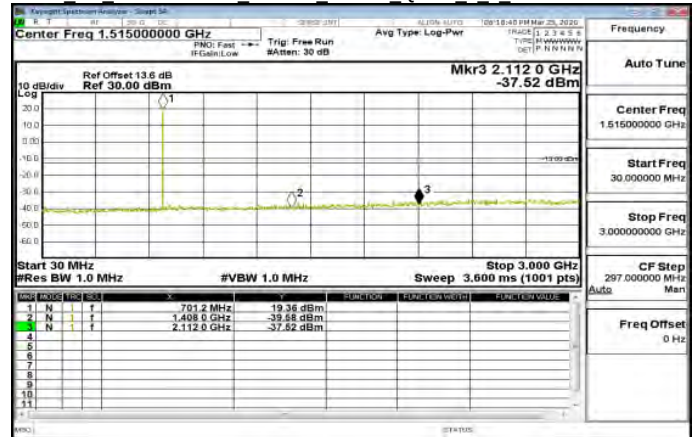
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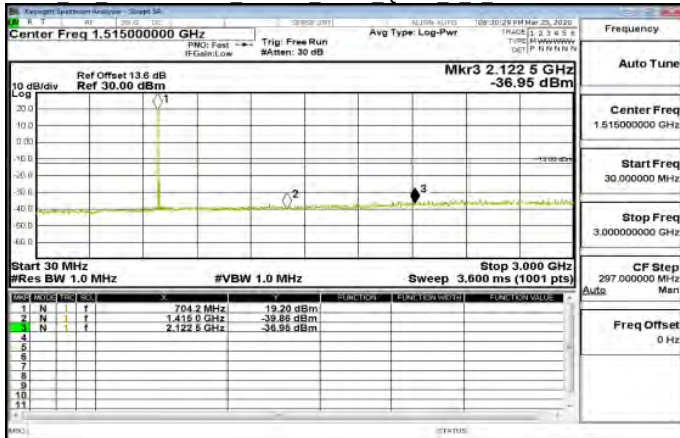
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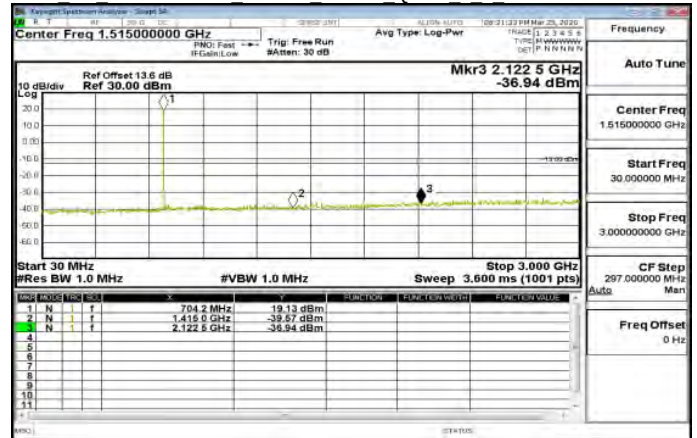
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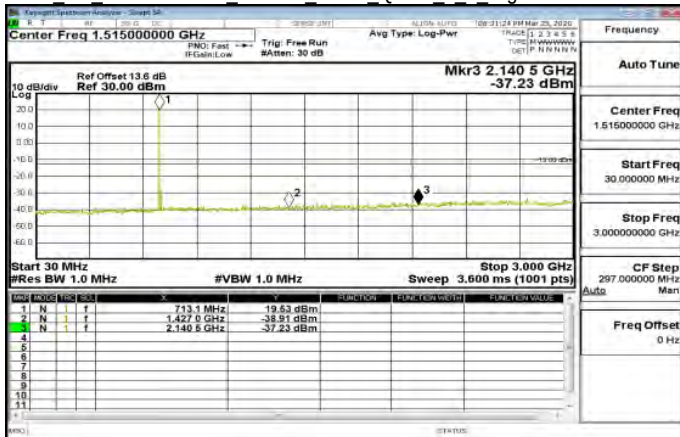
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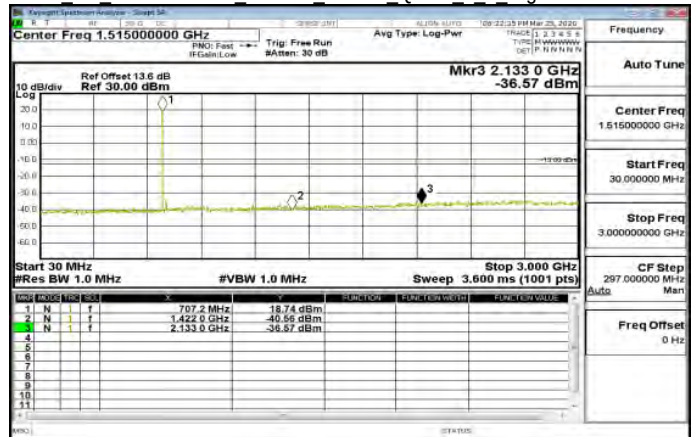
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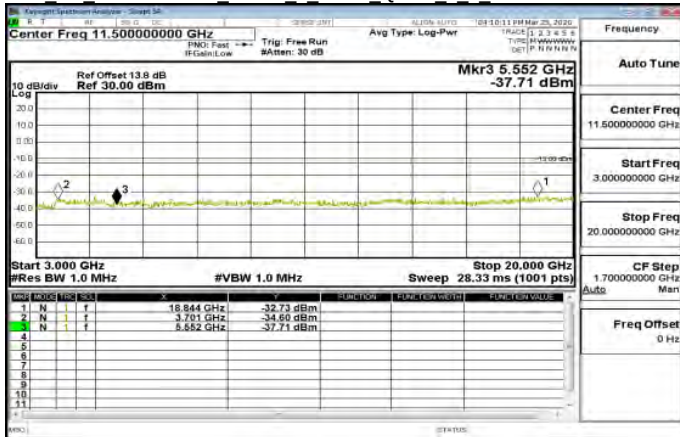


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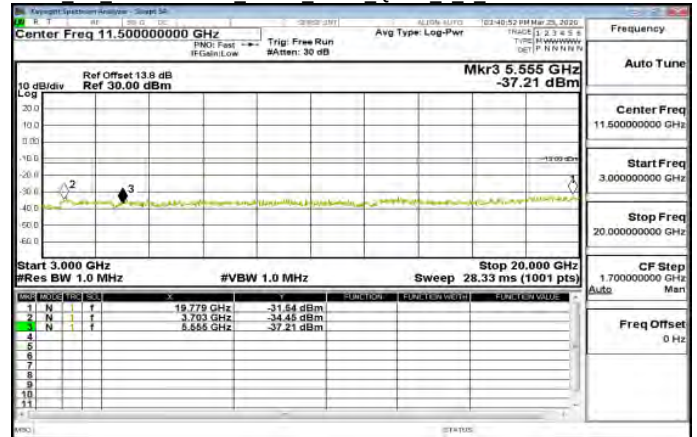
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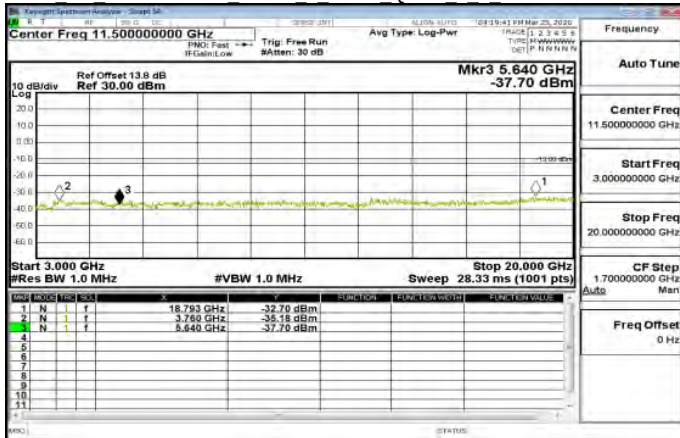
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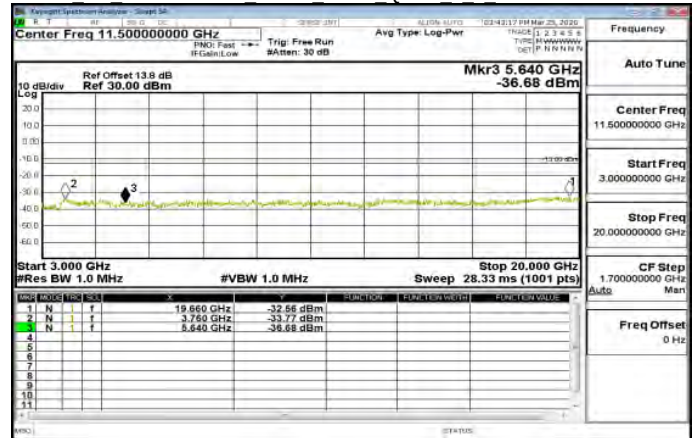
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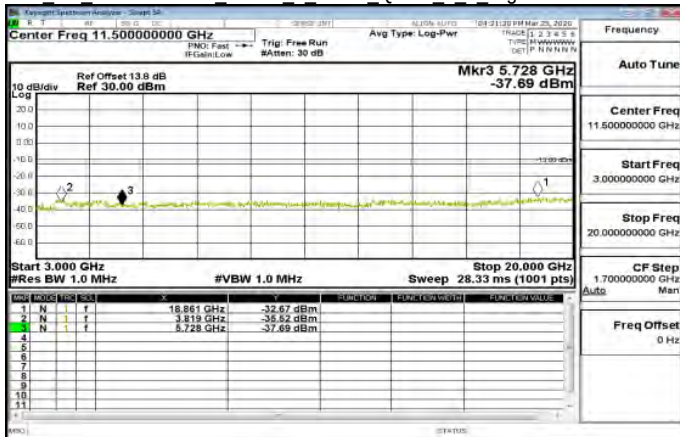
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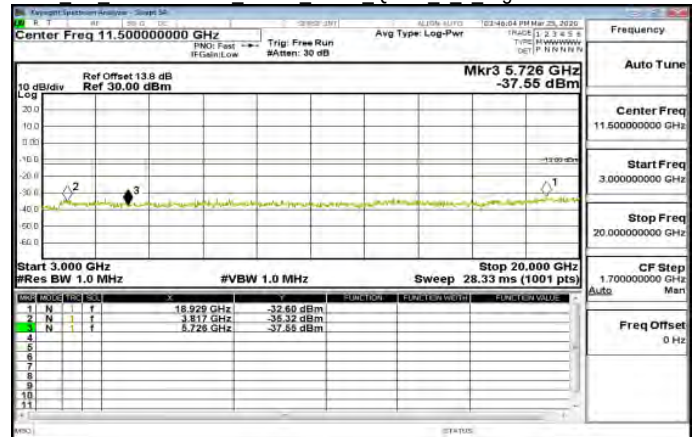
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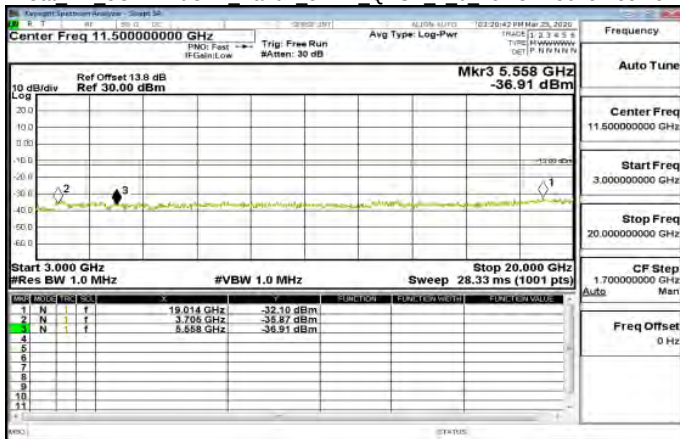


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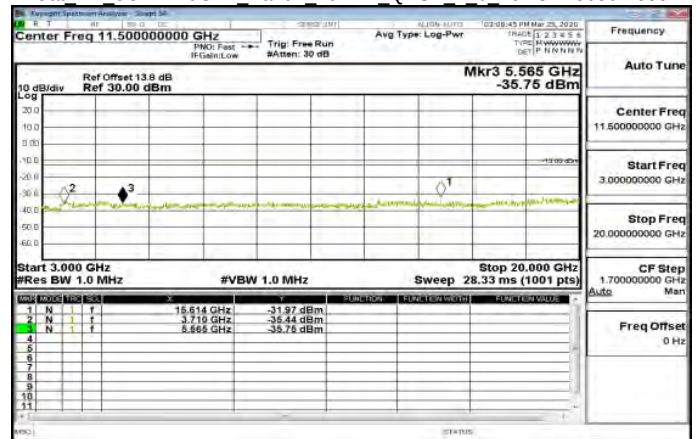
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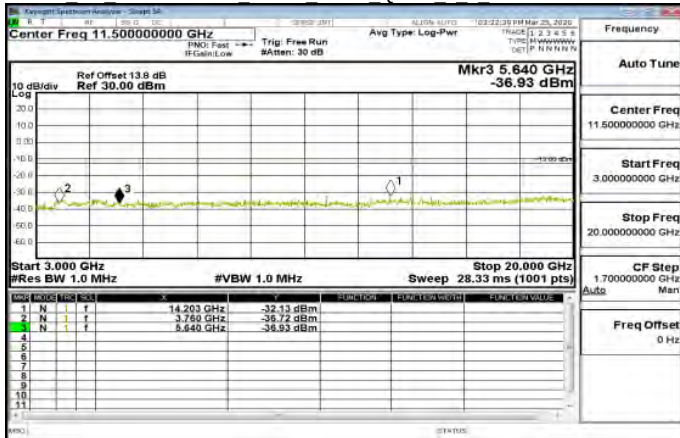
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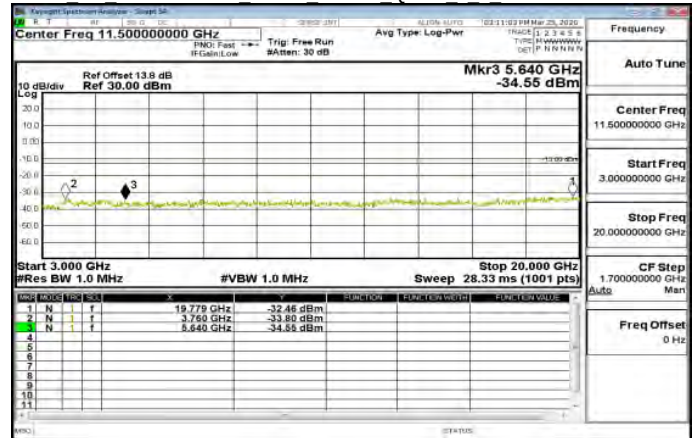
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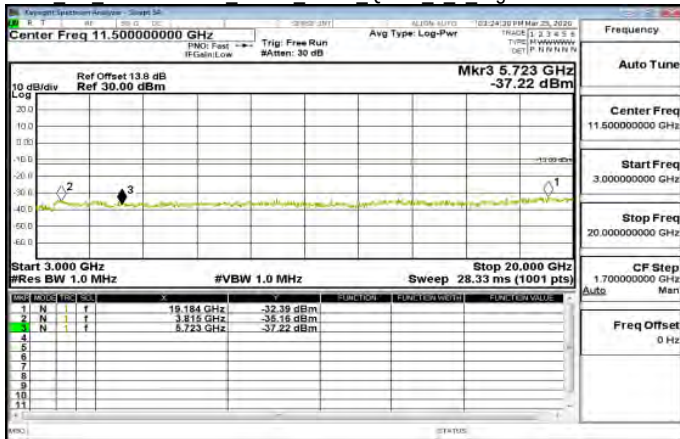
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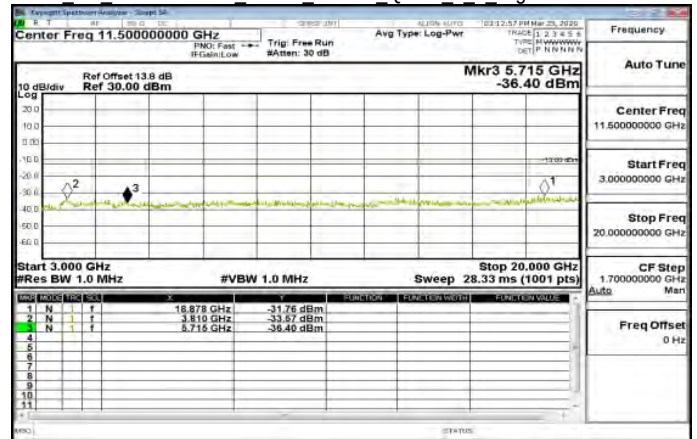
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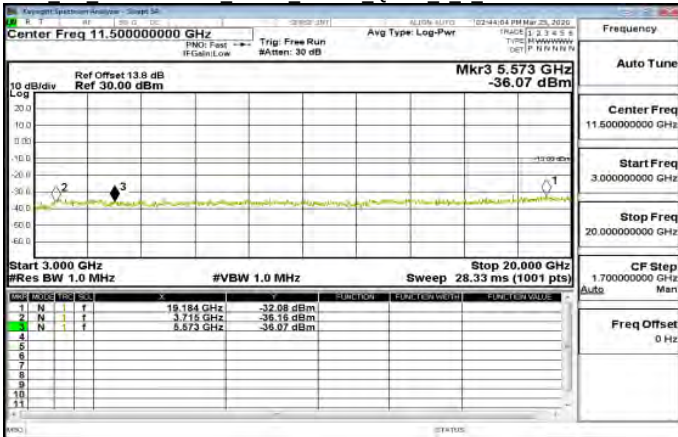


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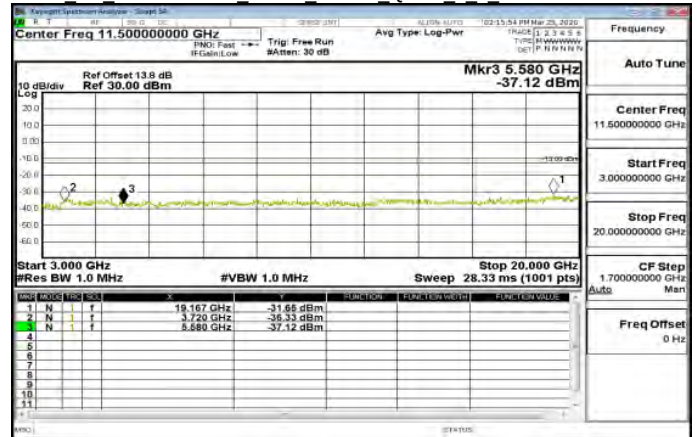
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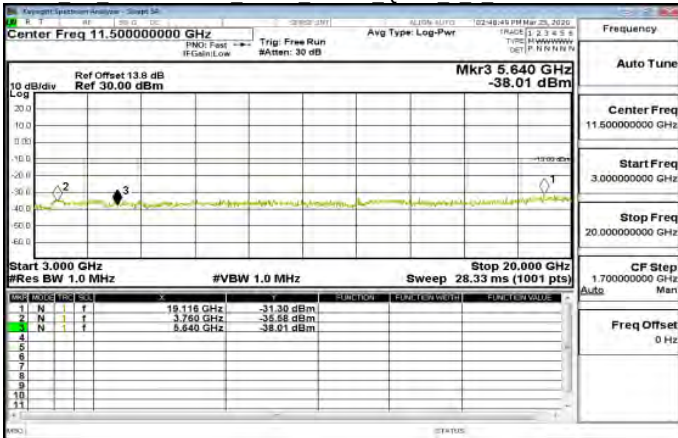
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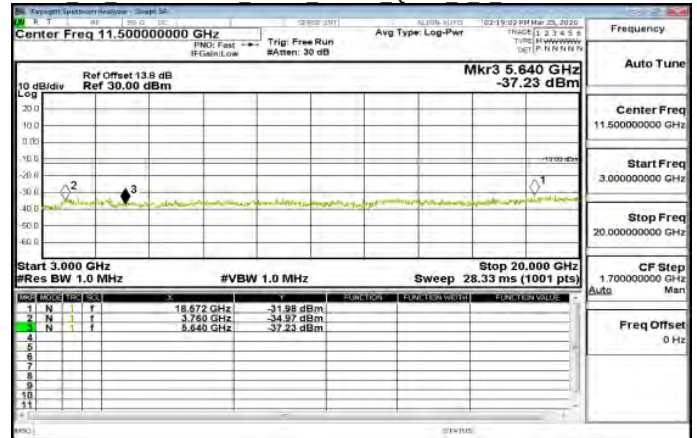
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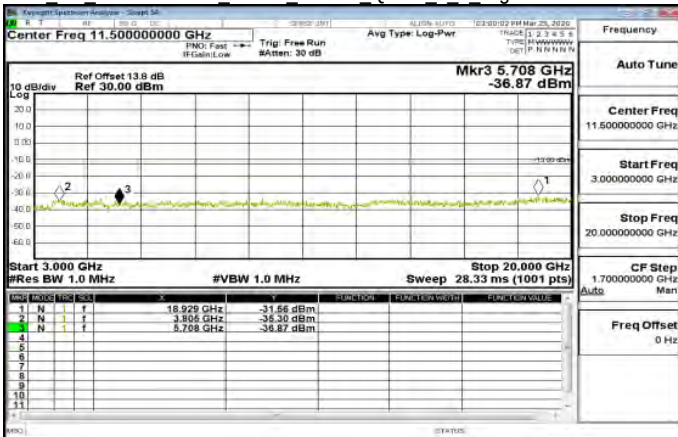
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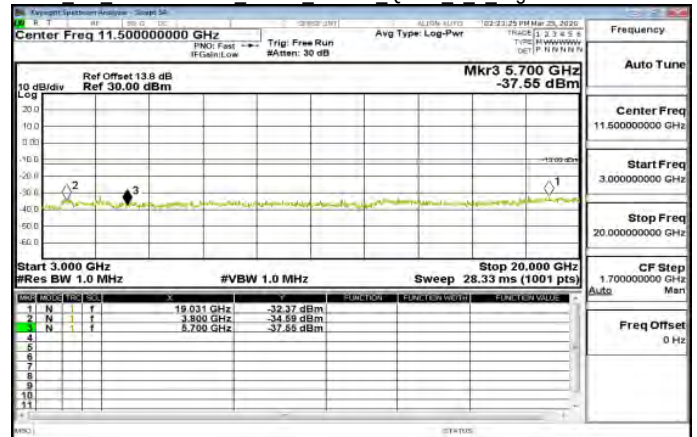
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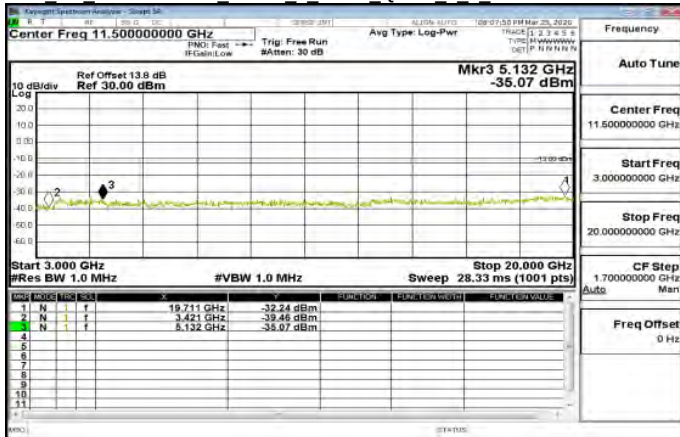


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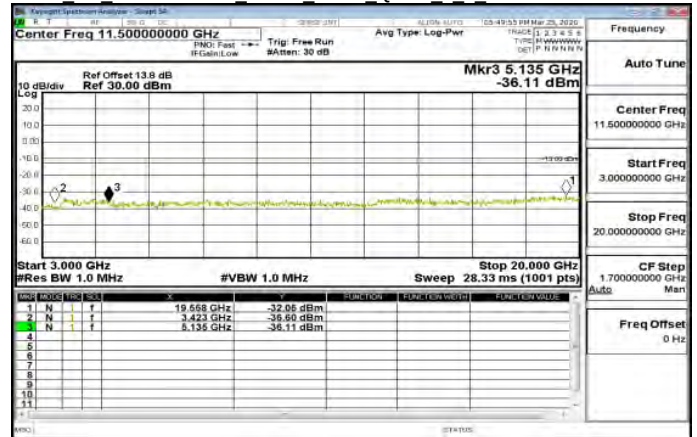
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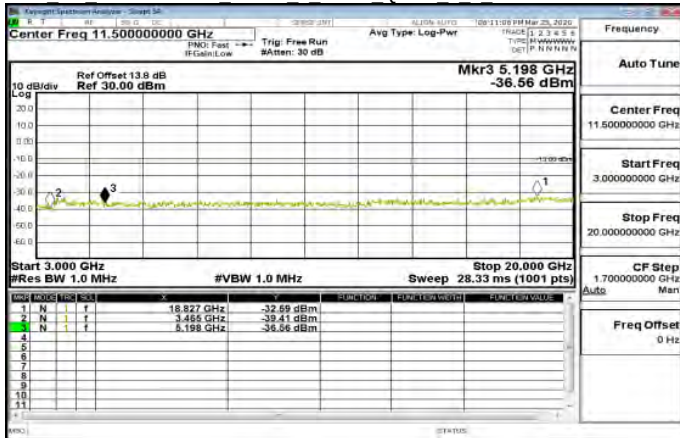
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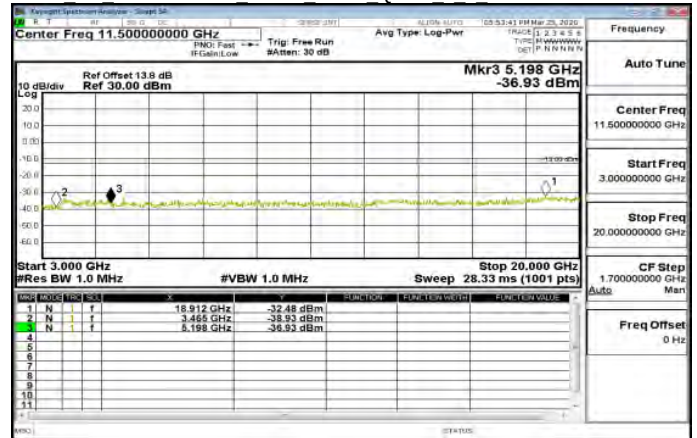
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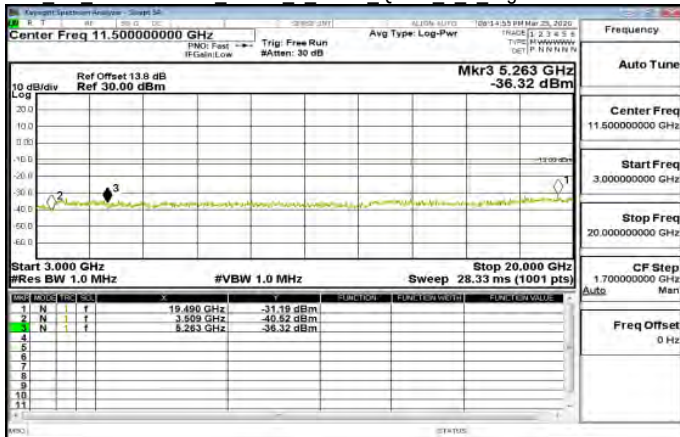
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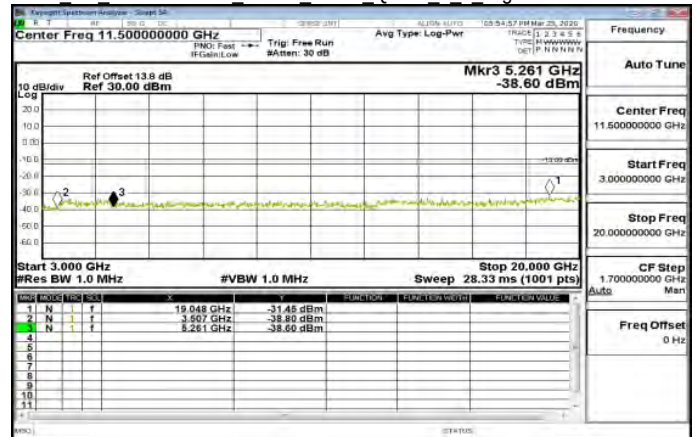
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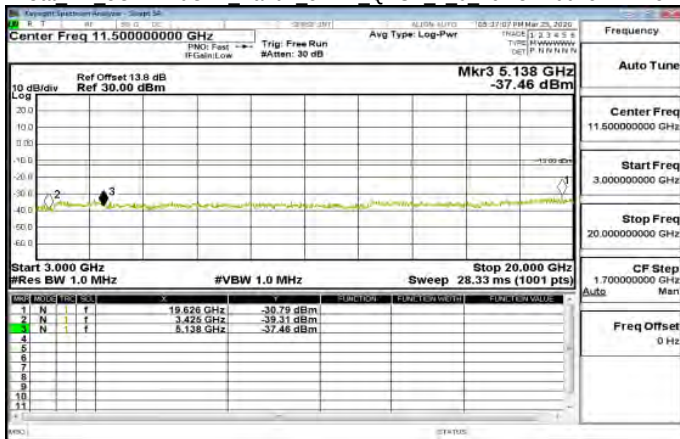


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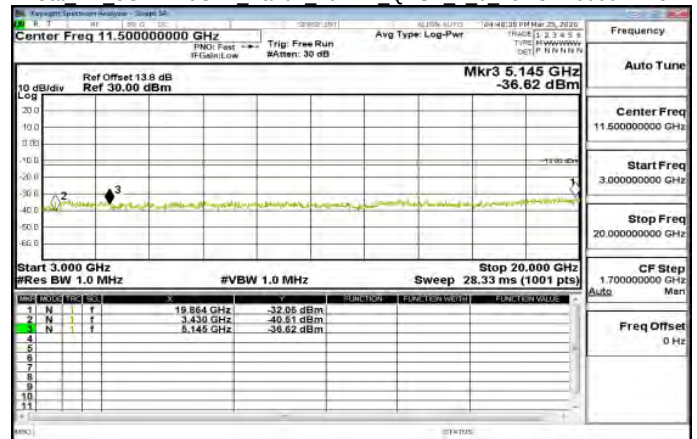
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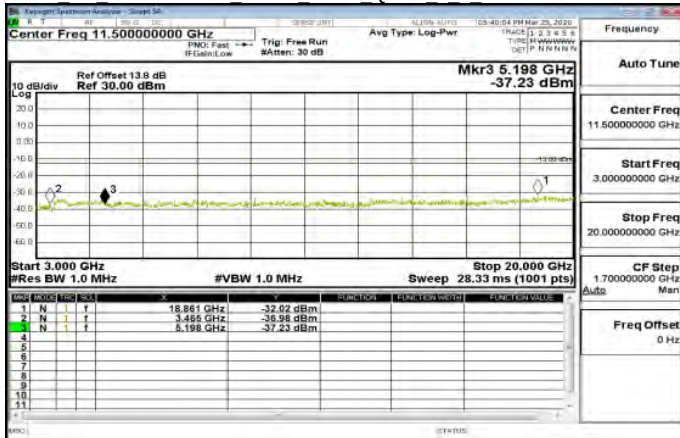
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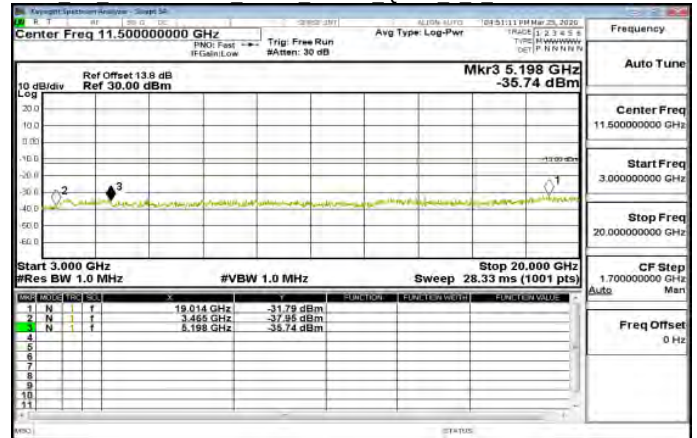
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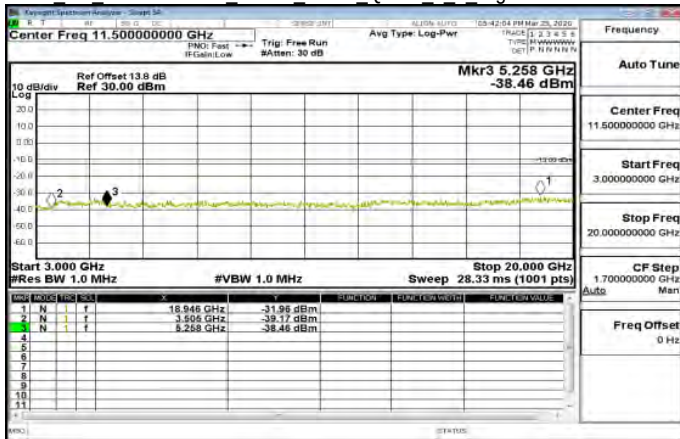
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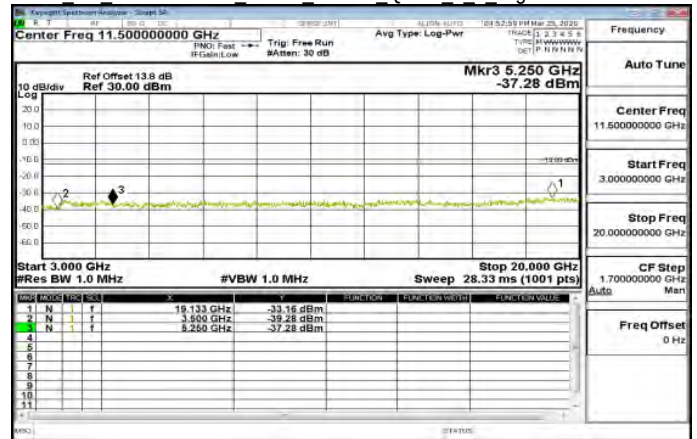
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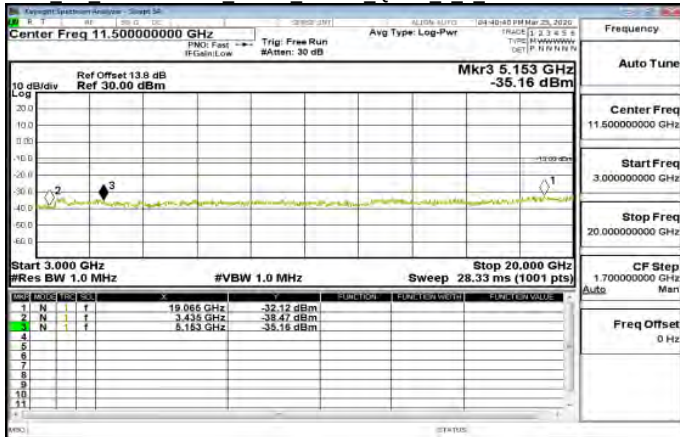


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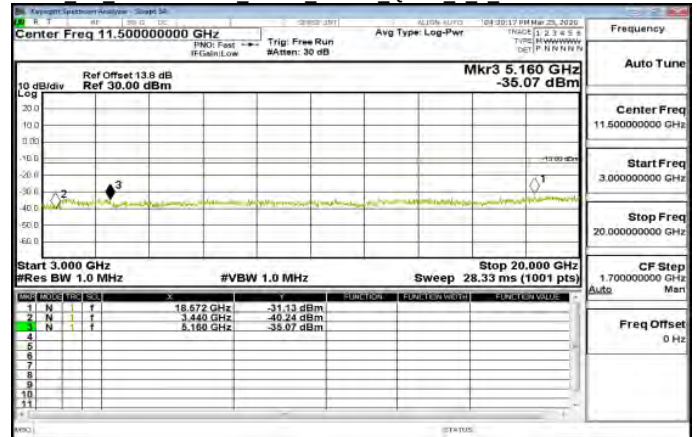
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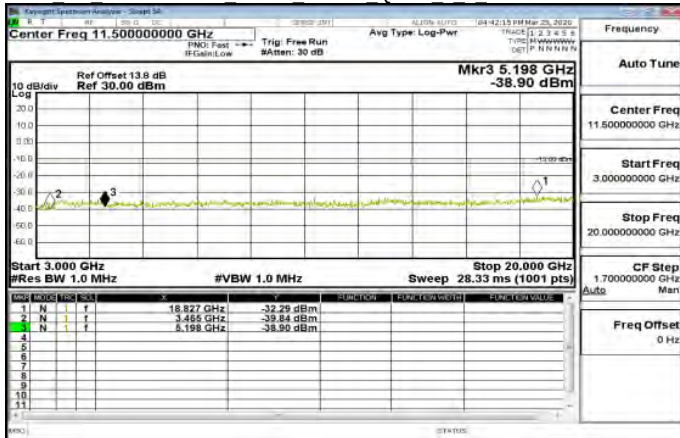
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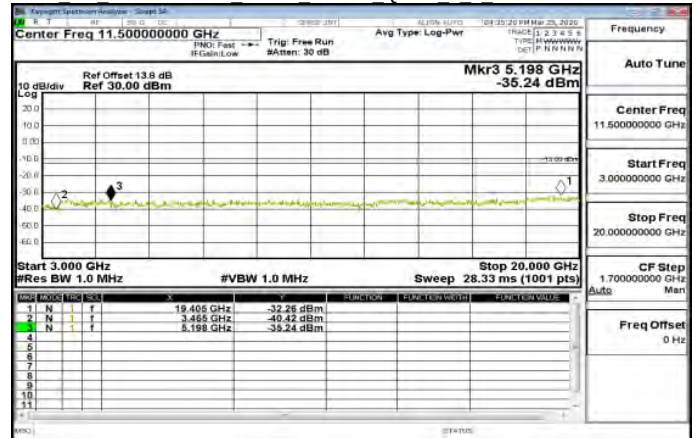
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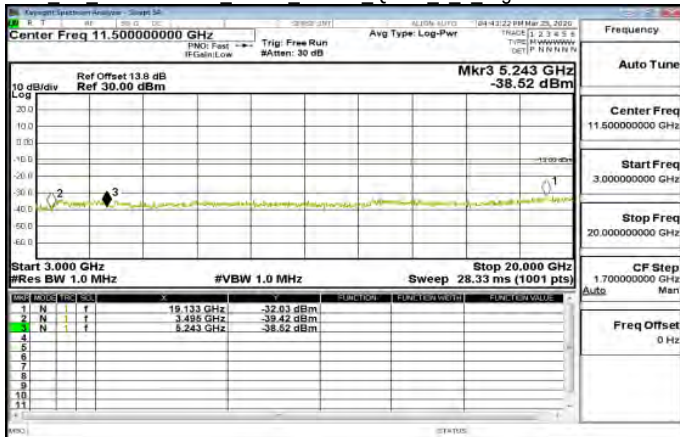
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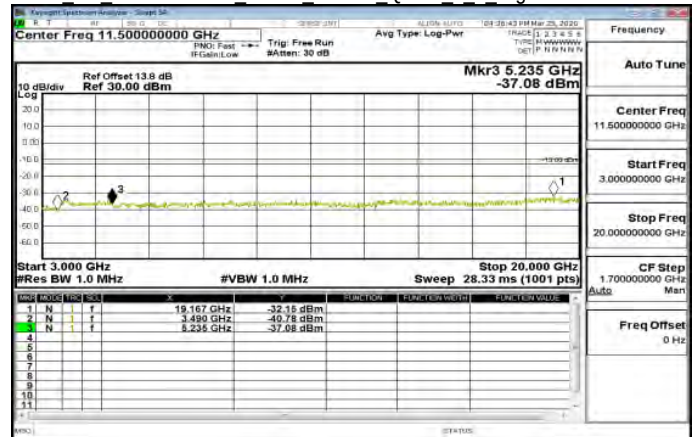
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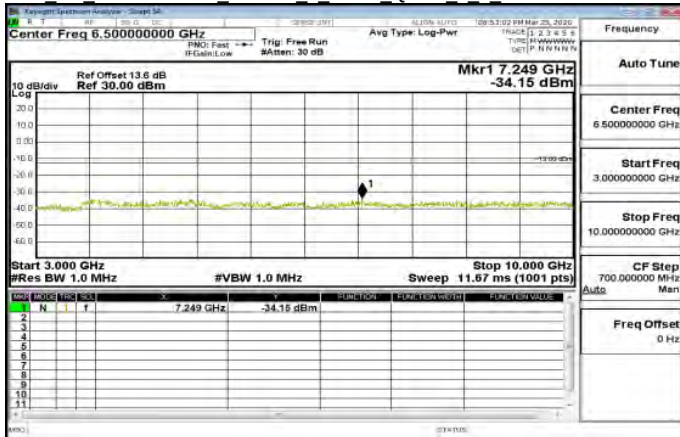


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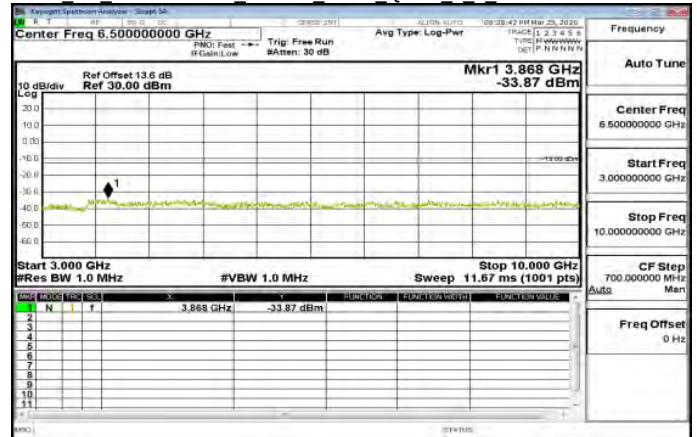
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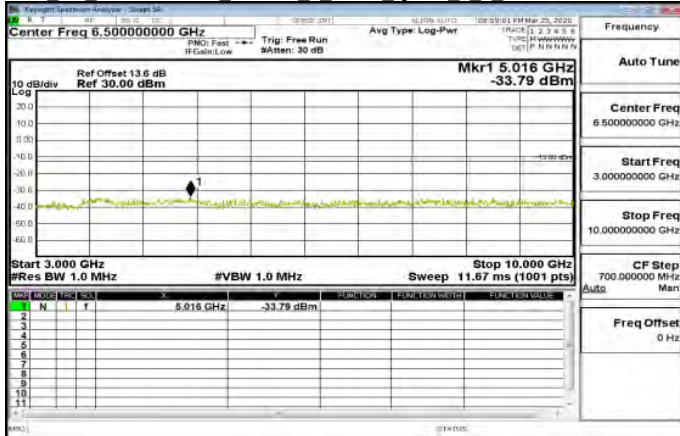
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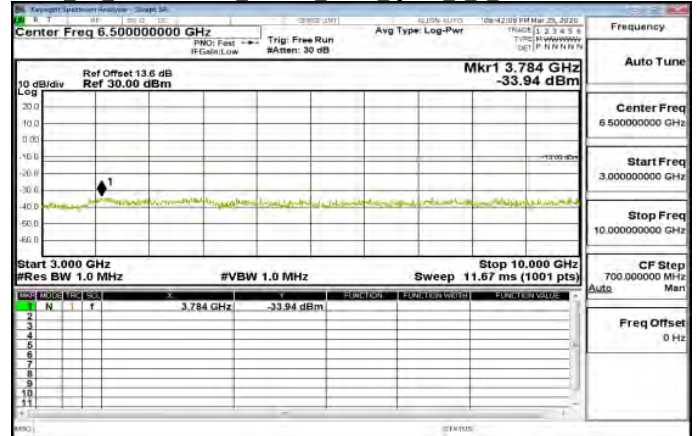
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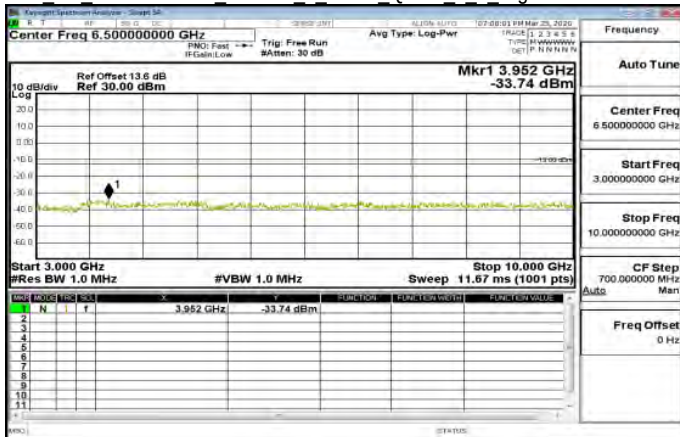
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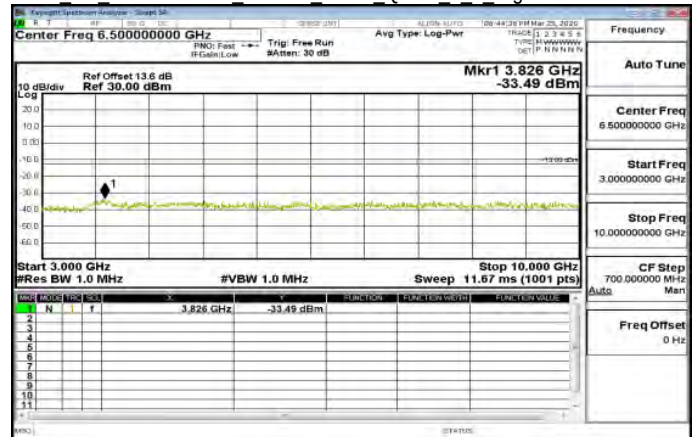
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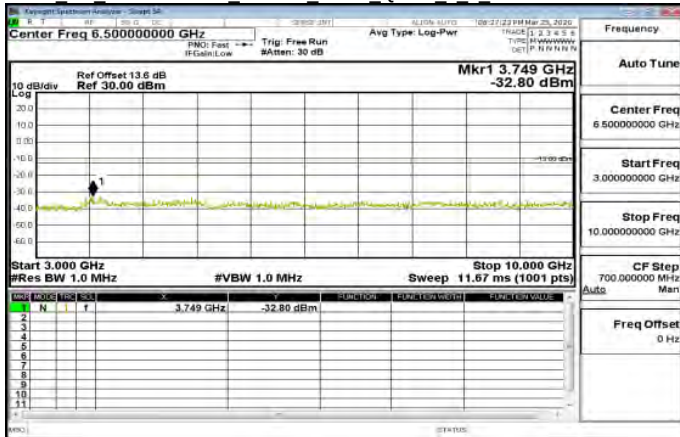


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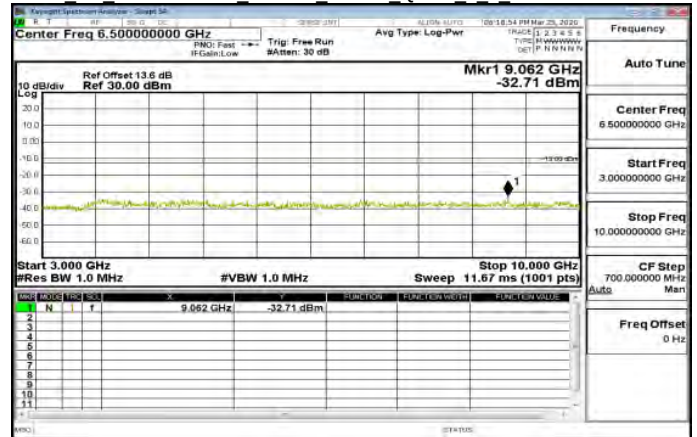
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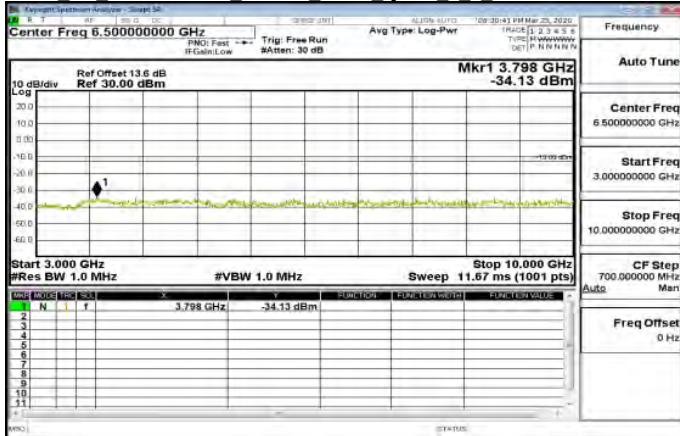
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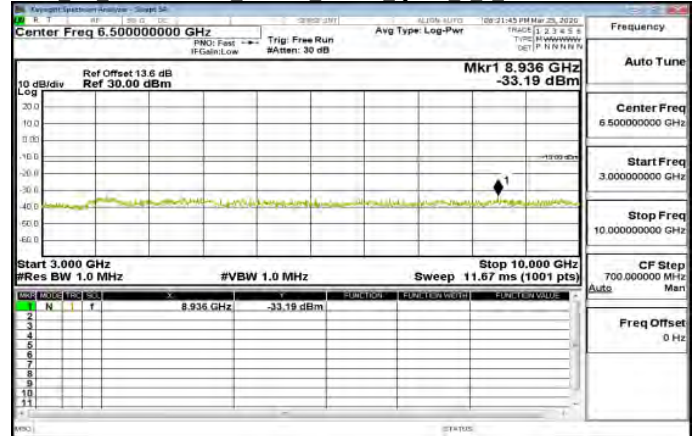
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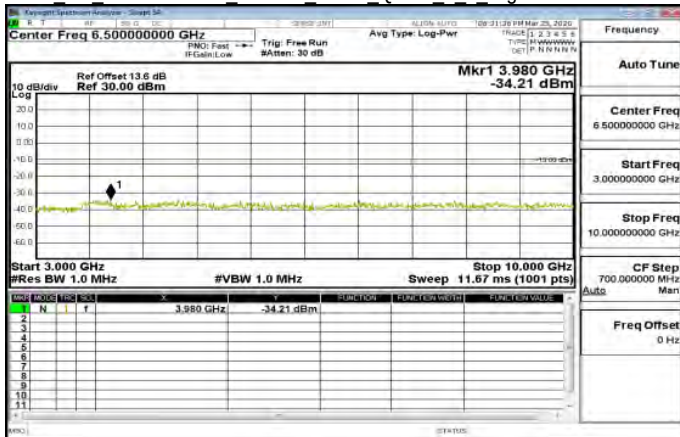
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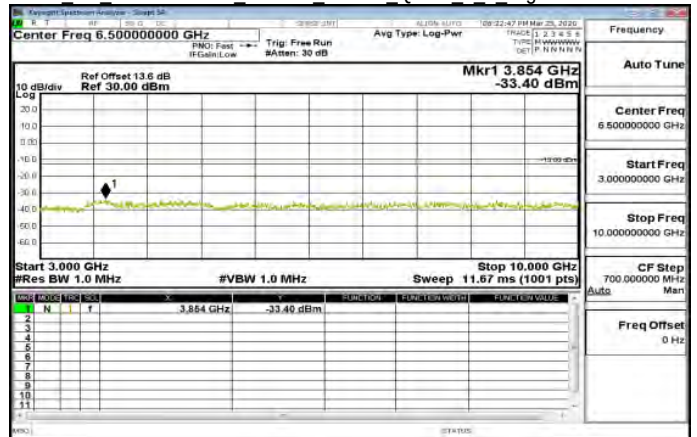
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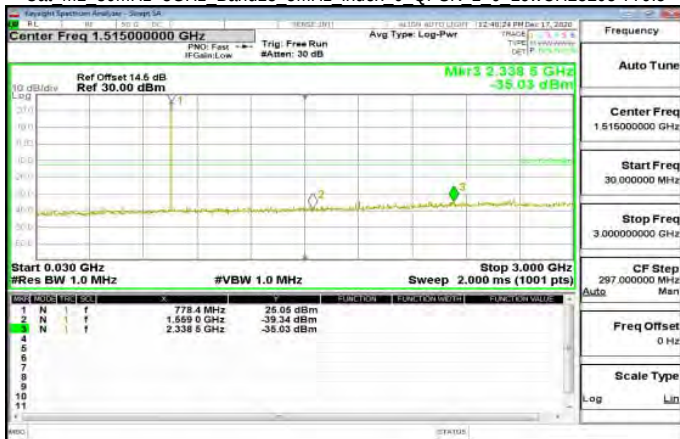


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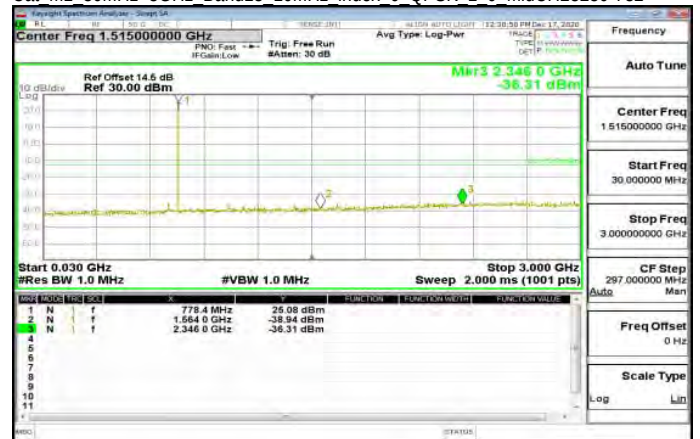
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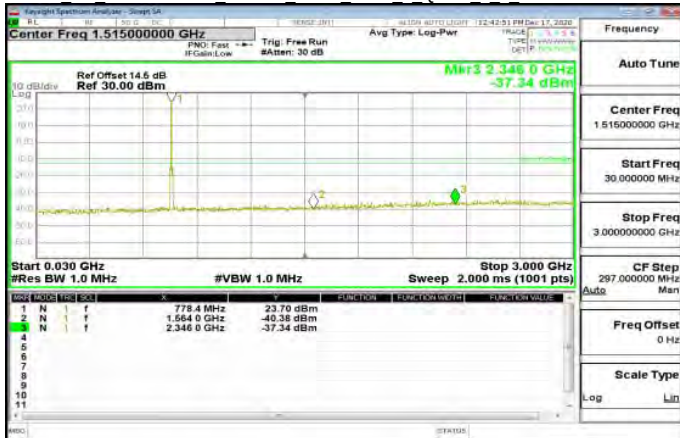
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Cat M1 30MHz~3GHz Band13 10MHz index 0 QPSK 1 0 MidCH23230-782



Cat M1 30MHz~3GHz Band13 5MHz index 0 QPSK 1 0 MidCH23230-782



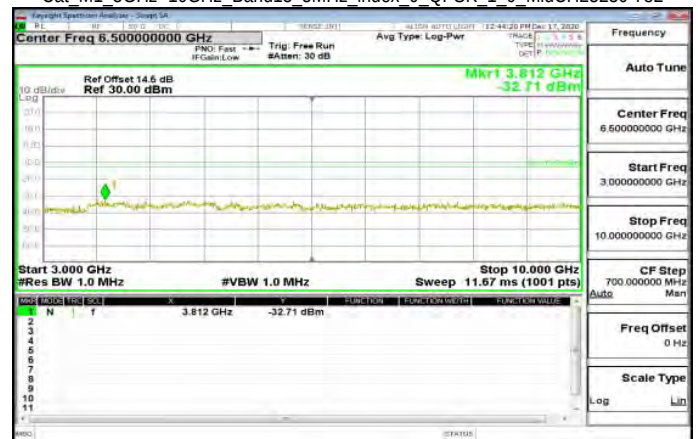
Cat M1 3GHz~10GHz Band13 5MHz index 0 QPSK 1 0 LowCH23205-779.5



Cat M1 30MHz~3GHz Band13 5MHz index 3 QPSK 1 0 HighCH23255-784.5



Cat M1 3GHz~10GHz Band13 5MHz index 0 QPSK 1 0 MidCH23230-782



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Cat M1 3GHz~10GHz Band13 5MHz index 3 QPSK 1 0 HighCH23255-784.5



Cat M1 Inband-1 Band13 5MHz index 0 QPSK 1 0 MidCH23230-782



Cat M1 3GHz~10GHz Band13 10MHz index 0 QPSK 1 0 MidCH23230-782



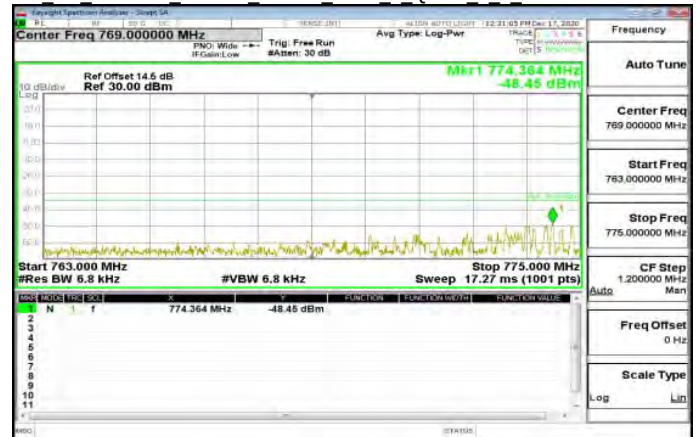
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Cat M1 Inband-1 Band13 5MHz index 0 QPSK 1 0 LowCH23205-779.5



Cat M1 Inband-1 Band13 10MHz index 0 QPSK 1 0 MidCH23230-782



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Cat M1 Inband-2 Band13 5MHz index 0 QPSK 1 0 LowCH23205-779.5



Cat M1 Inband-2 Band13 10MHz index 0 QPSK 1 0 MidCH23230-782



Cat M1 Inband-2 Band13 5MHz index 0 QPSK 1 0 MidCH23230-782



Cat M1 Inband-2 Band13 5MHz index 3 QPSK 1 0 HighCH23255-784.5



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

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 B4

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

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

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

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

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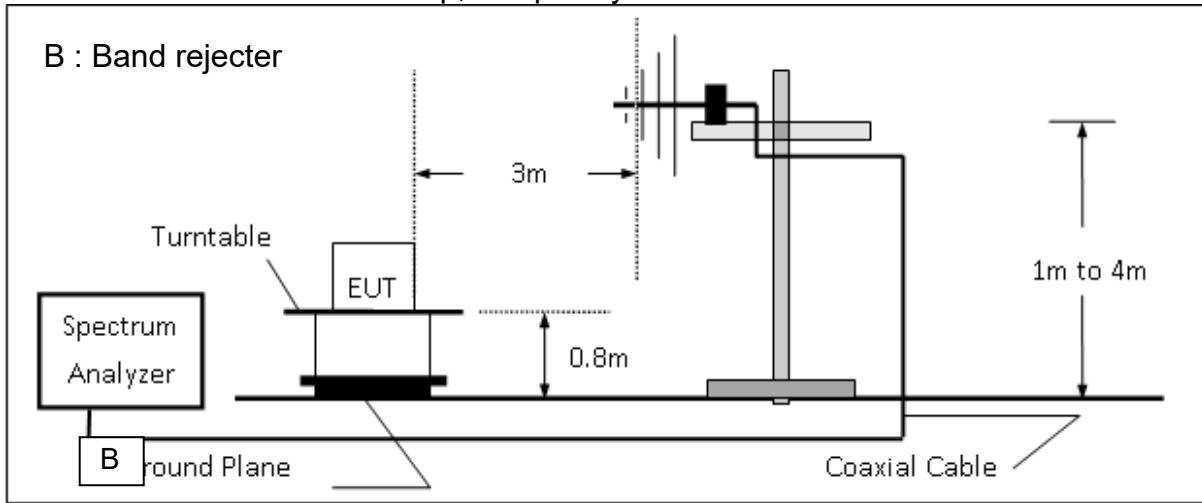
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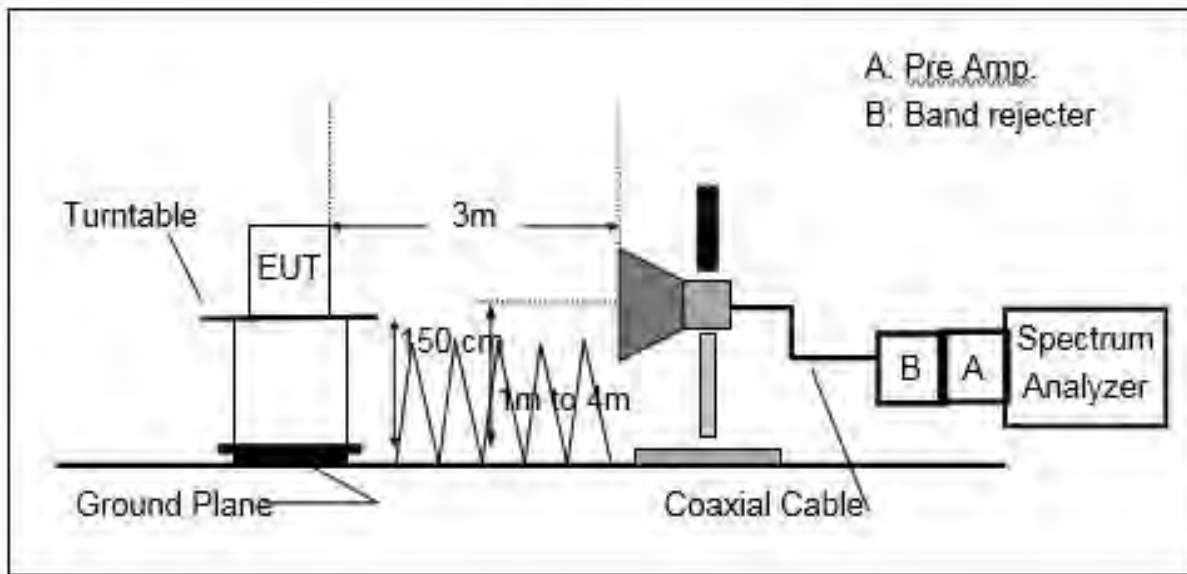
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9.2 EUT Setup

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.

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

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

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	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
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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Add Cat M1 Band 13

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	10/16/2020	10/15/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Signal Generator	Agilent	N5183A	MY50140591	12/20/2019	12/19/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instru-ments	EMC184045B	980135	01/02/2020	01/01/2021
Filter 635-920	Micro-Tronics	WI	4	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2020	01/01/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

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

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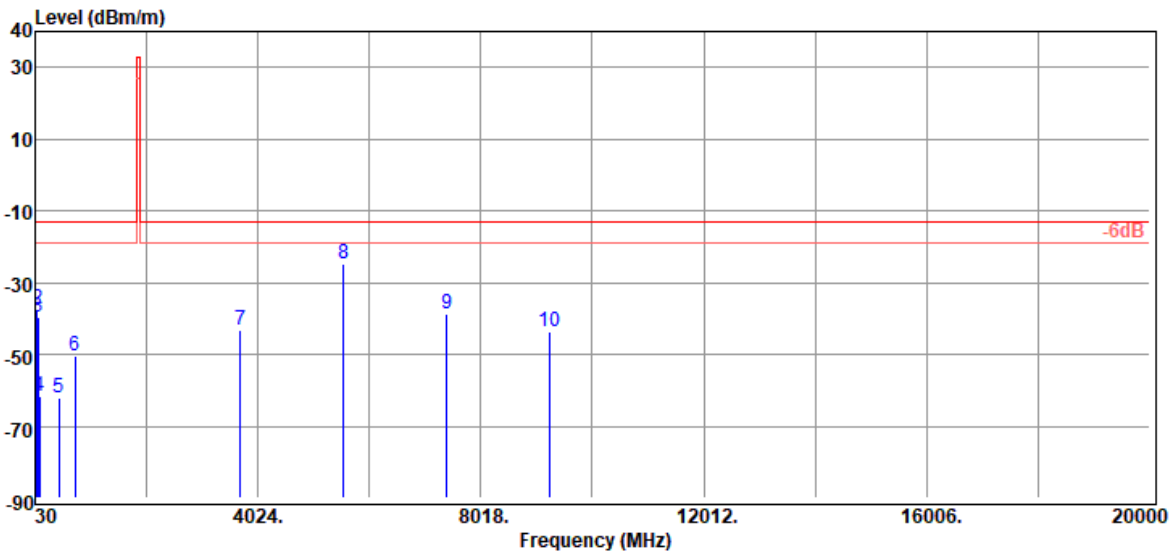
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9.5 Measurement Result:

9.5.1 Radiated Spurious Emission

Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1852.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-61.30	-42.37	-18.07	-0.86	-13.00	-48.30
64.92	-37.33	-22.62	-13.71	-1.00	-13.00	-24.33
83.35	-39.71	-31.10	-7.45	-1.16	-13.00	-26.71
102.75	-61.51	-53.67	-6.48	-1.36	-13.00	-48.51
461.65	-61.94	-57.31	-1.28	-3.35	-13.00	-48.94
746.83	-50.40	-44.60	-1.61	-4.19	-13.00	-37.40
3705.00	-43.28	-44.28	12.31	-11.31	-13.00	-30.28
5557.50	-24.97	-26.90	13.33	-11.40	-13.00	-11.97
7410.00	-38.53	-36.97	11.22	-12.78	-13.00	-25.53
9262.50	-43.61	-40.53	10.75	-13.83	-13.00	-30.61

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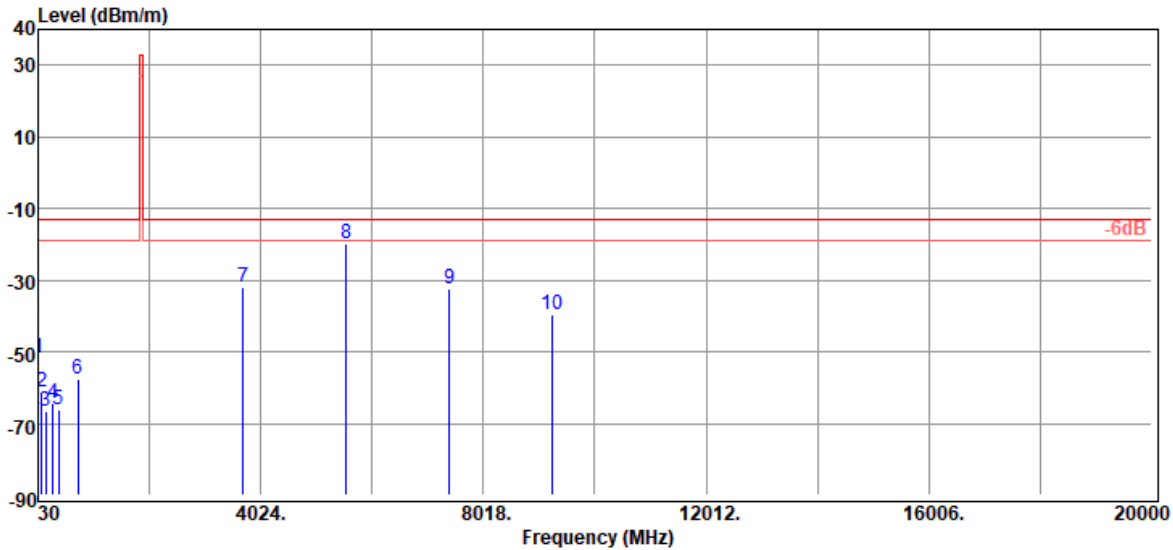
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1852.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



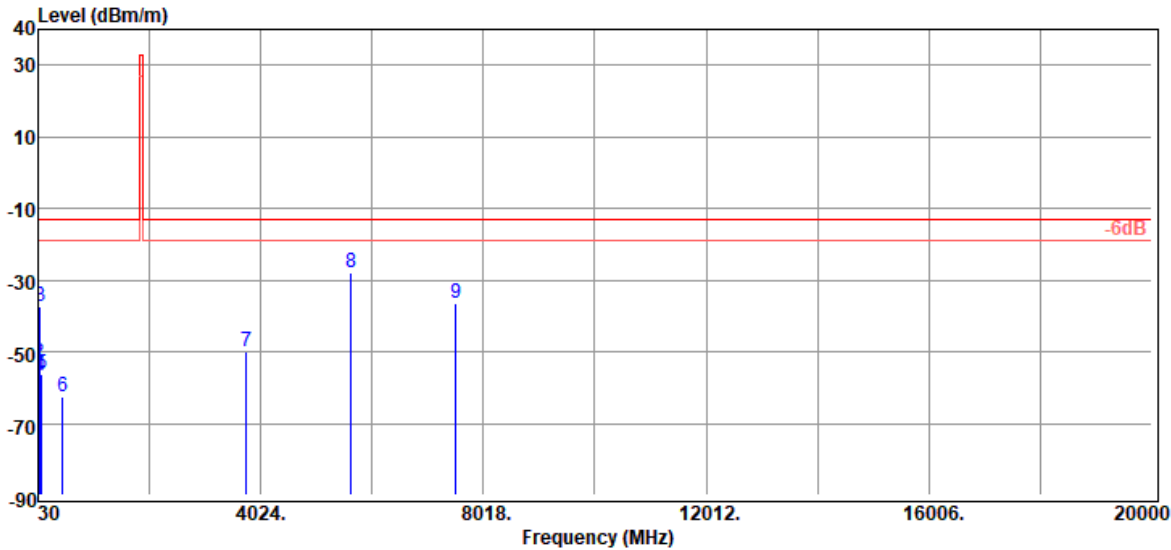
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-51.94	-31.79	-19.35	-0.80	-13.00	-38.94
101.78	-61.33	-53.54	-6.44	-1.35	-13.00	-48.33
161.92	-66.75	-58.21	-6.85	-1.69	-13.00	-53.75
298.69	-64.47	-60.45	-1.51	-2.51	-13.00	-51.47
391.81	-66.02	-61.59	-1.52	-2.91	-13.00	-53.02
740.04	-57.59	-51.84	-1.56	-4.19	-13.00	-44.59
3705.00	-32.16	-33.16	12.31	-11.31	-13.00	-19.16
5557.50	-19.81	-21.74	13.33	-11.40	-13.00	-6.81
7410.00	-32.60	-31.04	11.22	-12.78	-13.00	-19.60
9262.50	-39.84	-36.76	10.75	-13.83	-13.00	-26.84

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1880 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-55.73	-35.52	-19.43	-0.78	-13.00	-42.73
46.49	-53.31	-34.16	-18.29	-0.86	-13.00	-40.31
61.04	-37.37	-21.45	-14.92	-1.00	-13.00	-24.37
67.83	-56.50	-42.67	-12.83	-1.00	-13.00	-43.50
95.96	-56.05	-49.00	-5.79	-1.26	-13.00	-43.05
466.50	-62.45	-57.95	-1.29	-3.21	-13.00	-49.45
3760.00	-50.17	-51.51	12.42	-11.08	-13.00	-37.17
5640.00	-27.77	-29.70	13.50	-11.57	-13.00	-14.77
7520.00	-36.34	-34.84	11.38	-12.88	-13.00	-23.34

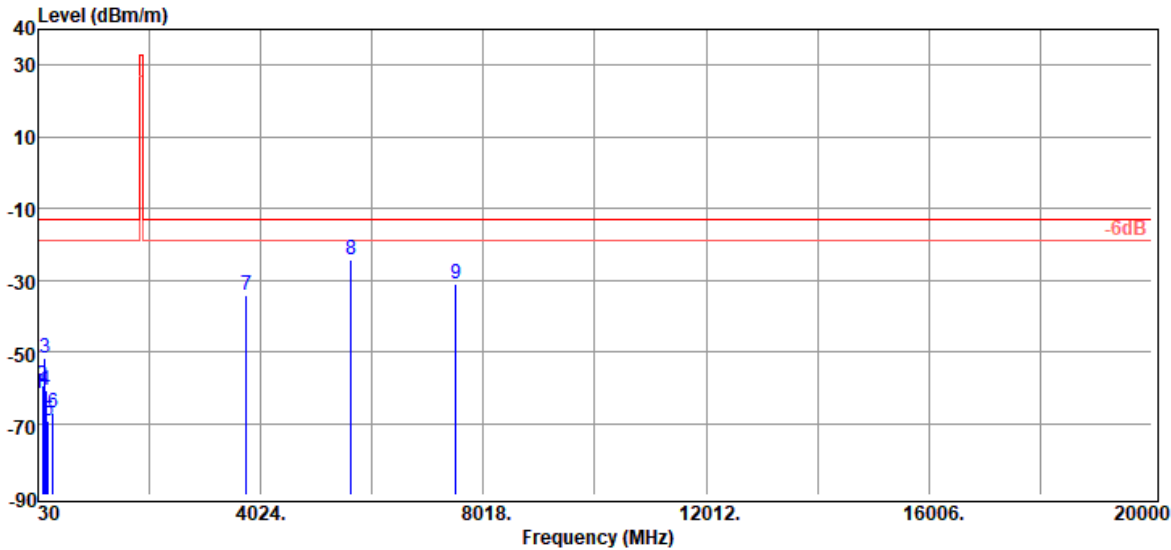
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1880 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



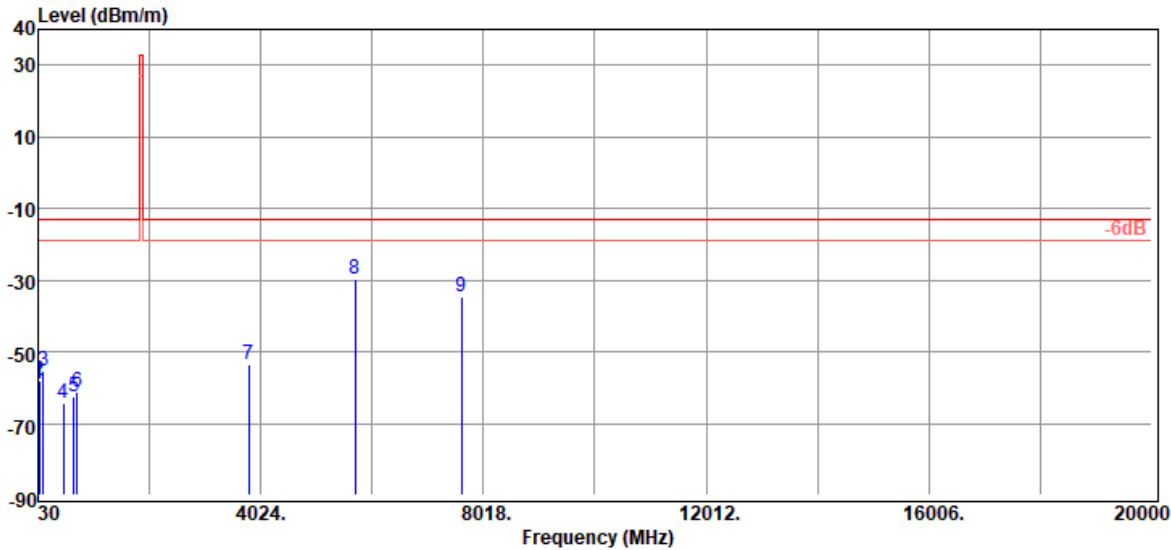
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-61.70	-40.68	-20.36	-0.66	-13.00	-48.70
107.60	-59.26	-50.88	-6.96	-1.42	-13.00	-46.26
147.37	-51.74	-42.50	-7.57	-1.67	-13.00	-38.74
165.80	-60.60	-52.34	-6.55	-1.71	-13.00	-47.60
213.33	-69.10	-65.52	-1.46	-2.12	-13.00	-56.10
304.51	-67.14	-63.07	-1.45	-2.62	-13.00	-54.14
3760.00	-34.14	-35.48	12.42	-11.08	-13.00	-21.14
5640.00	-24.31	-26.24	13.50	-11.57	-13.00	-11.31
7520.00	-30.86	-29.36	11.38	-12.88	-13.00	-17.86

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1907.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo


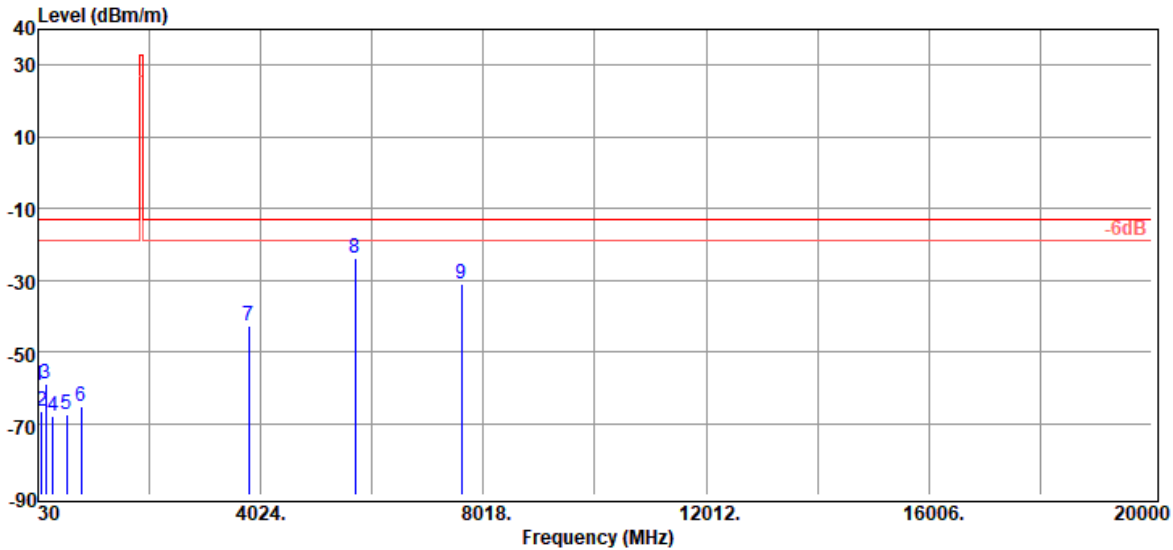
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-59.12	-38.91	-19.43	-0.78	-13.00	-46.12
46.49	-58.01	-38.86	-18.29	-0.86	-13.00	-45.01
123.12	-55.25	-46.69	-7.04	-1.52	-13.00	-42.25
484.93	-64.46	-60.03	-1.13	-3.30	-13.00	-51.46
678.93	-62.41	-57.17	-1.28	-3.96	-13.00	-49.41
729.37	-61.00	-55.26	-1.46	-4.28	-13.00	-48.00
3815.00	-53.52	-55.13	12.50	-10.89	-13.00	-40.52
5722.50	-29.57	-31.22	13.35	-11.70	-13.00	-16.57
7630.00	-34.60	-33.24	11.62	-12.98	-13.00	-21.60

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1907.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo


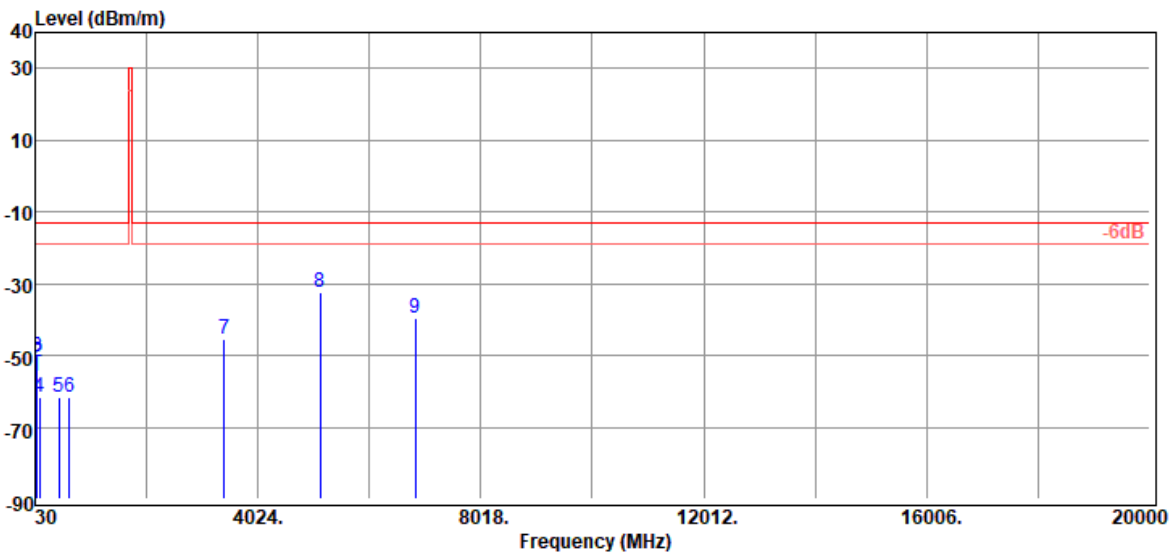
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-59.51	-38.74	-20.09	-0.68	-13.00	-46.51
101.78	-66.62	-58.83	-6.44	-1.35	-13.00	-53.62
160.95	-58.77	-50.18	-6.90	-1.69	-13.00	-45.77
301.60	-67.90	-63.87	-1.48	-2.55	-13.00	-54.90
541.19	-67.49	-62.96	-1.22	-3.31	-13.00	-54.49
796.30	-65.12	-59.05	-1.69	-4.38	-13.00	-52.12
3815.00	-42.67	-44.28	12.50	-10.89	-13.00	-29.67
5722.50	-23.75	-25.40	13.35	-11.70	-13.00	-10.75
7630.00	-31.20	-29.84	11.62	-12.98	-13.00	-18.20

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1712.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo


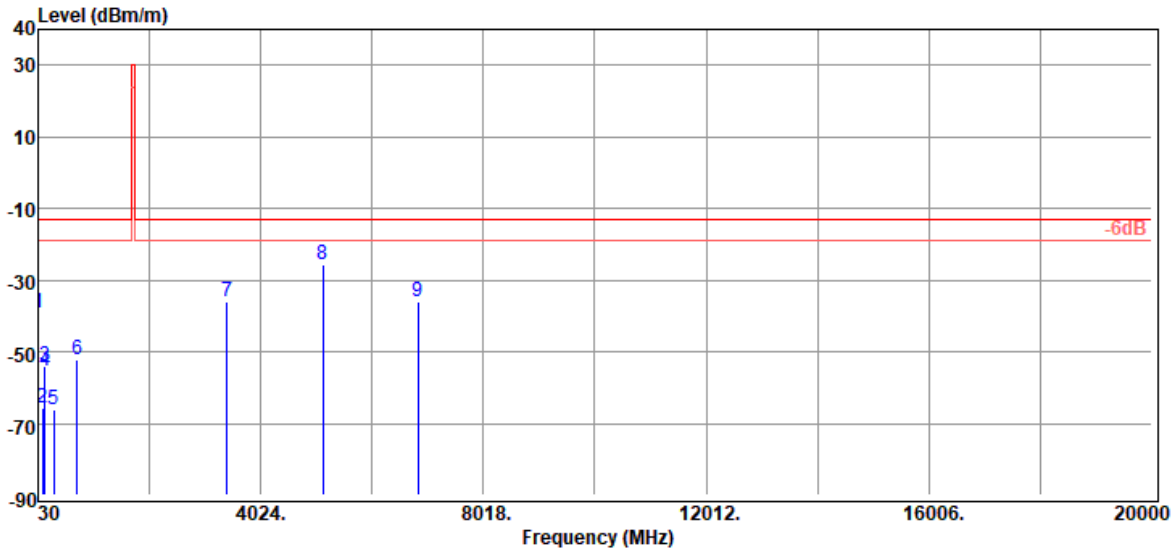
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-55.69	-37.87	-16.91	-0.91	-13.00	-42.69
60.07	-51.76	-35.50	-15.26	-1.00	-13.00	-38.76
67.83	-50.47	-36.64	-12.83	-1.00	-13.00	-37.47
104.69	-61.87	-53.70	-6.78	-1.39	-13.00	-48.87
461.65	-61.67	-57.04	-1.28	-3.35	-13.00	-48.67
643.04	-61.52	-56.12	-1.38	-4.02	-13.00	-48.52
3425.00	-45.35	-46.71	12.65	-11.29	-13.00	-32.35
5137.50	-32.33	-33.01	12.48	-11.80	-13.00	-19.33
6850.00	-39.46	-39.49	12.40	-12.37	-13.00	-26.46

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1712.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo


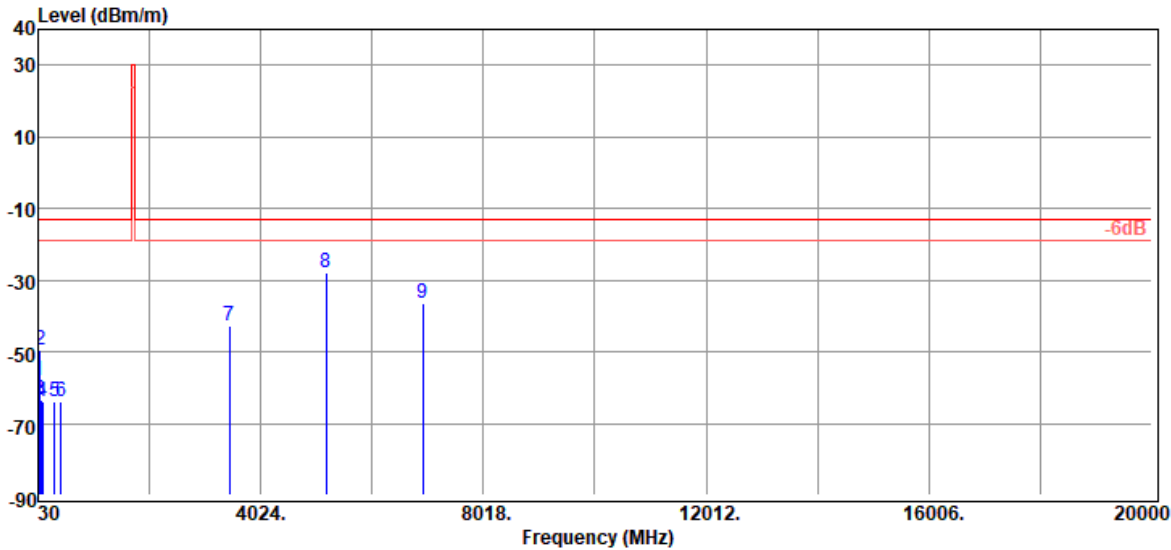
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-39.25	-18.85	-19.64	-0.76	-13.00	-26.25
103.72	-65.66	-57.65	-6.64	-1.37	-13.00	-52.66
151.25	-54.20	-45.17	-7.35	-1.68	-13.00	-41.20
159.01	-55.30	-46.61	-7.01	-1.68	-13.00	-42.30
306.45	-66.25	-62.12	-1.47	-2.66	-13.00	-53.25
735.19	-52.24	-46.57	-1.42	-4.25	-13.00	-39.24
3425.00	-36.09	-37.45	12.65	-11.29	-13.00	-23.09
5137.50	-25.64	-26.32	12.48	-11.80	-13.00	-12.64
6850.00	-36.11	-36.14	12.40	-12.37	-13.00	-23.11

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1732.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-57.97	-39.60	-17.50	-0.87	-13.00	-44.97
60.07	-49.31	-33.05	-15.26	-1.00	-13.00	-36.31
83.35	-63.64	-55.03	-7.45	-1.16	-13.00	-50.64
115.36	-64.00	-55.41	-7.14	-1.45	-13.00	-51.00
327.79	-63.92	-59.67	-1.58	-2.67	-13.00	-50.92
448.07	-64.09	-59.73	-1.44	-2.92	-13.00	-51.09
3465.00	-42.70	-44.18	12.51	-11.03	-13.00	-29.70
5197.50	-28.11	-28.81	12.69	-11.99	-13.00	-15.11
6930.00	-36.34	-36.21	12.08	-12.21	-13.00	-23.34

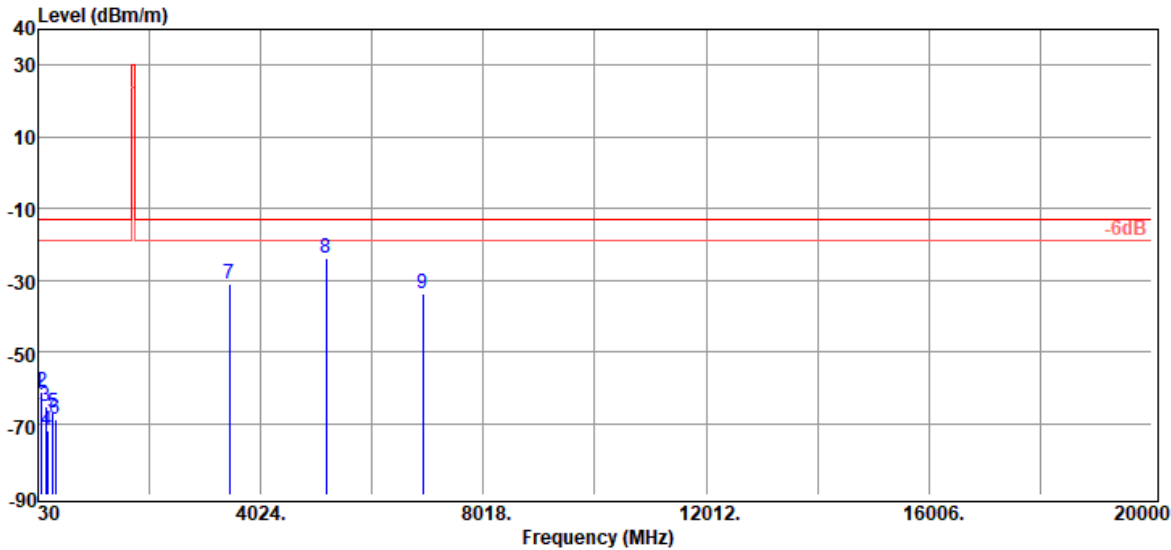
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1732.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



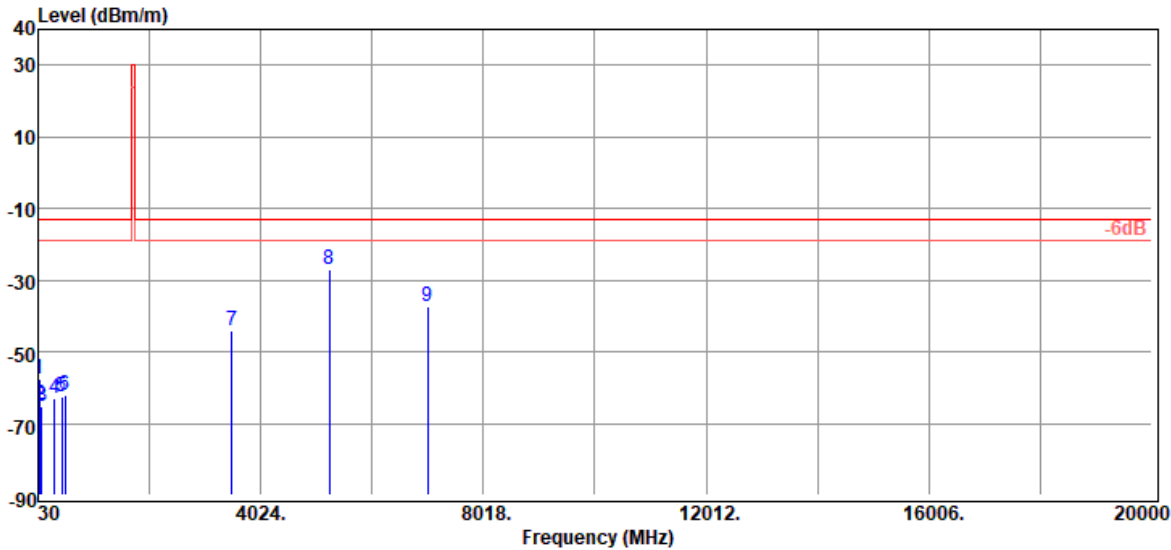
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-61.87	-41.10	-20.09	-0.68	-13.00	-48.87
101.78	-61.17	-53.38	-6.44	-1.35	-13.00	-48.17
160.95	-65.13	-56.54	-6.90	-1.69	-13.00	-52.13
189.08	-72.21	-67.25	-3.10	-1.86	-13.00	-59.21
296.75	-67.18	-63.14	-1.53	-2.51	-13.00	-54.18
346.22	-68.77	-64.71	-1.45	-2.61	-13.00	-55.77
3465.00	-30.92	-32.40	12.51	-11.03	-13.00	-17.92
5197.50	-24.02	-24.72	12.69	-11.99	-13.00	-11.02
6930.00	-33.98	-33.85	12.08	-12.21	-13.00	-20.98

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1752.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-57.75	-38.60	-18.29	-0.86	-13.00	-44.75
65.89	-64.72	-50.42	-13.30	-1.00	-13.00	-51.72
94.02	-65.27	-58.26	-5.78	-1.23	-13.00	-52.27
331.67	-62.90	-58.66	-1.59	-2.65	-13.00	-49.90
458.74	-62.48	-57.83	-1.31	-3.34	-13.00	-49.48
515.97	-62.03	-57.24	-1.22	-3.57	-13.00	-49.03
3505.00	-44.22	-45.69	12.30	-10.83	-13.00	-31.22
5257.50	-26.98	-28.27	13.13	-11.84	-13.00	-13.98
7010.00	-37.23	-36.89	11.86	-12.20	-13.00	-24.23

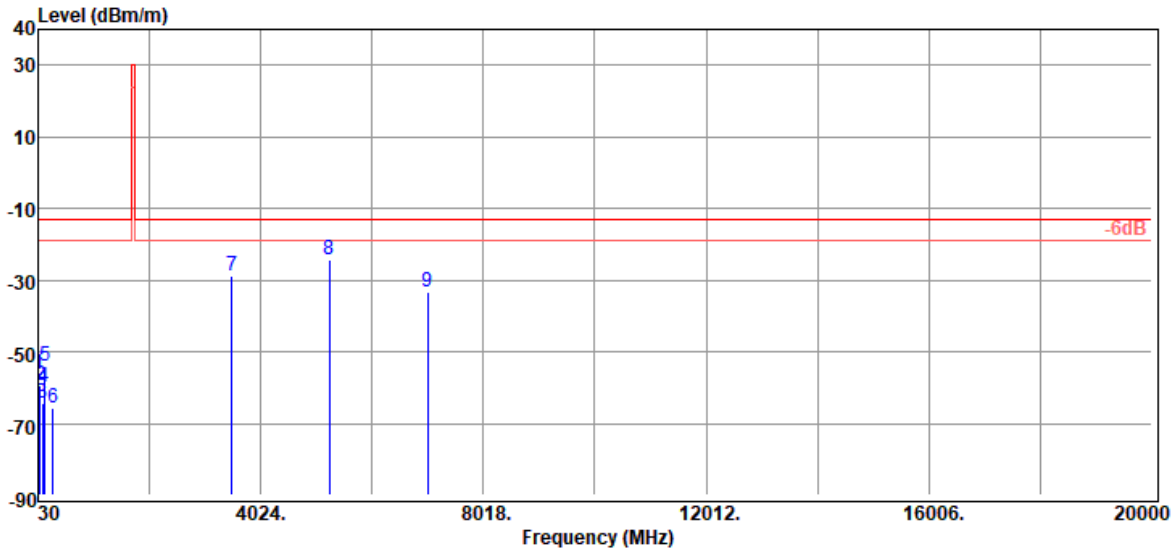
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1752.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-56.10	-36.02	-19.25	-0.83	-13.00	-43.10
61.04	-59.25	-43.33	-14.92	-1.00	-13.00	-46.25
104.69	-64.37	-56.20	-6.78	-1.39	-13.00	-51.37
141.55	-60.06	-50.72	-7.68	-1.66	-13.00	-47.06
149.31	-54.06	-44.92	-7.46	-1.68	-13.00	-41.06
302.57	-65.89	-61.85	-1.47	-2.57	-13.00	-52.89
3505.00	-28.65	-30.12	12.30	-10.83	-13.00	-15.65
5257.50	-24.53	-25.82	13.13	-11.84	-13.00	-11.53
7010.00	-33.32	-32.98	11.86	-12.20	-13.00	-20.32

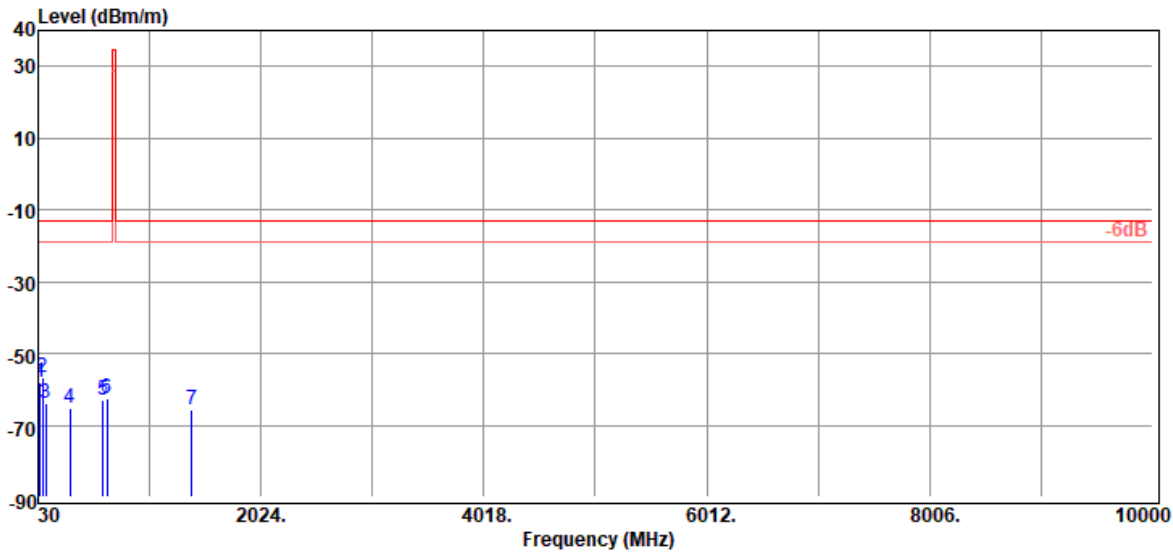
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :701.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-58.29	-39.14	-18.29	-0.86	-13.00	-45.29
67.83	-56.55	-42.72	-12.83	-1.00	-13.00	-43.55
98.87	-64.00	-56.57	-6.12	-1.31	-13.00	-51.00
315.18	-65.37	-61.15	-1.47	-2.75	-13.00	-52.37
612.00	-62.81	-57.21	-1.70	-3.90	-13.00	-49.81
644.98	-62.45	-57.14	-1.35	-3.96	-13.00	-49.45
1403.00	-65.93	-66.42	7.02	-6.53	-13.00	-52.93

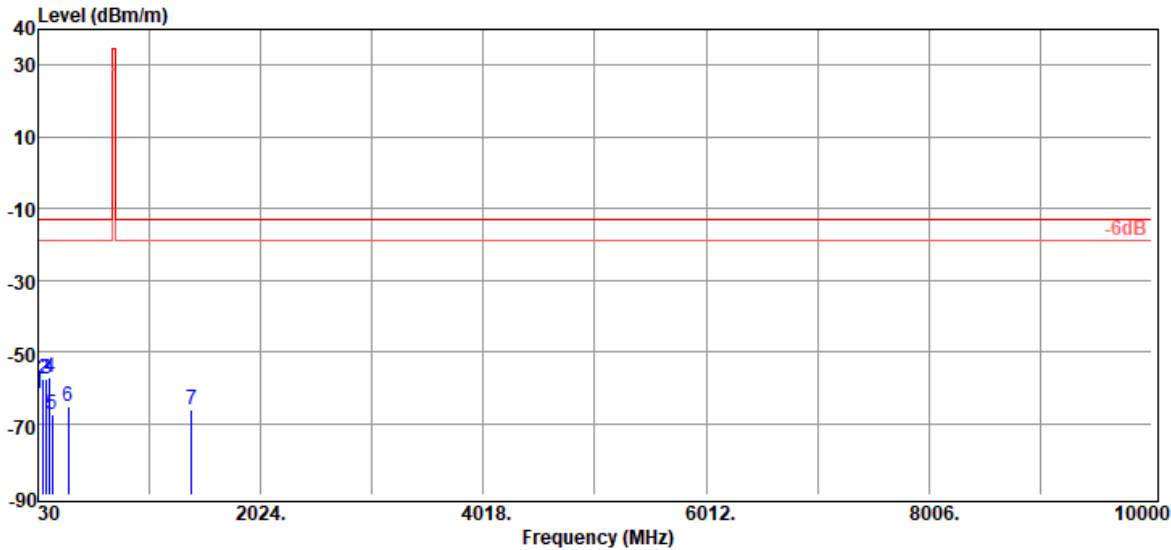
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :701.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



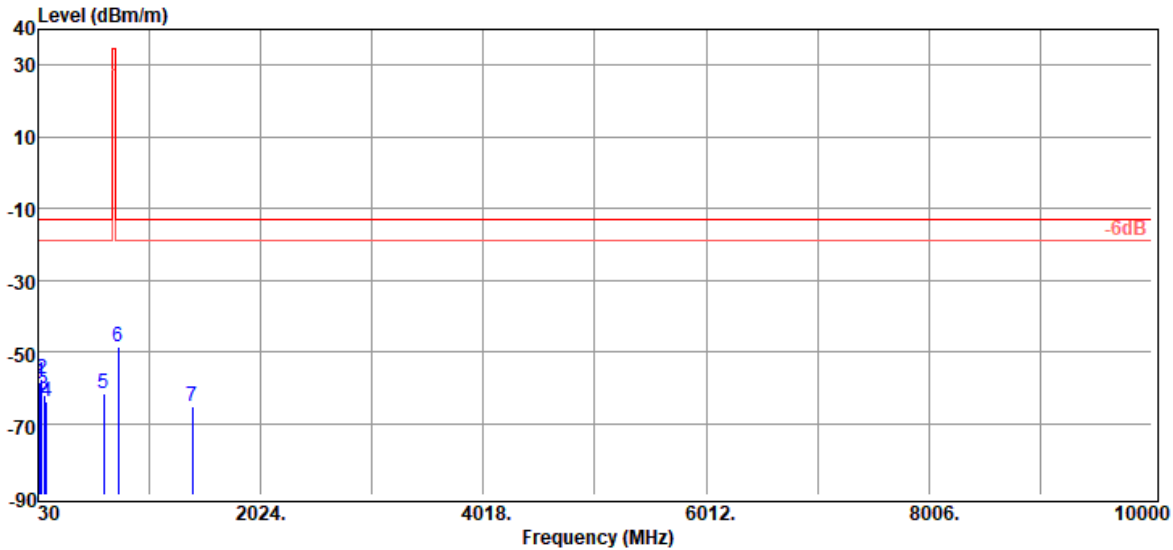
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-61.56	-41.06	-19.77	-0.73	-13.00	-48.56
79.47	-57.59	-47.90	-8.54	-1.15	-13.00	-44.59
108.57	-57.52	-49.11	-6.98	-1.43	-13.00	-44.52
135.73	-57.30	-48.08	-7.56	-1.66	-13.00	-44.30
158.04	-67.57	-58.82	-7.07	-1.68	-13.00	-54.57
299.66	-65.34	-61.33	-1.50	-2.51	-13.00	-52.34
1403.00	-66.12	-66.61	7.02	-6.53	-13.00	-53.12

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :707.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-58.49	-39.56	-18.07	-0.86	-13.00	-45.49
64.92	-57.46	-42.75	-13.71	-1.00	-13.00	-44.46
82.38	-62.04	-53.20	-7.68	-1.16	-13.00	-49.04
103.72	-64.04	-56.03	-6.64	-1.37	-13.00	-51.04
619.76	-61.82	-56.65	-1.59	-3.58	-13.00	-48.82
747.80	-48.66	-42.85	-1.62	-4.19	-13.00	-35.66
1415.00	-65.11	-65.68	7.12	-6.55	-13.00	-52.11

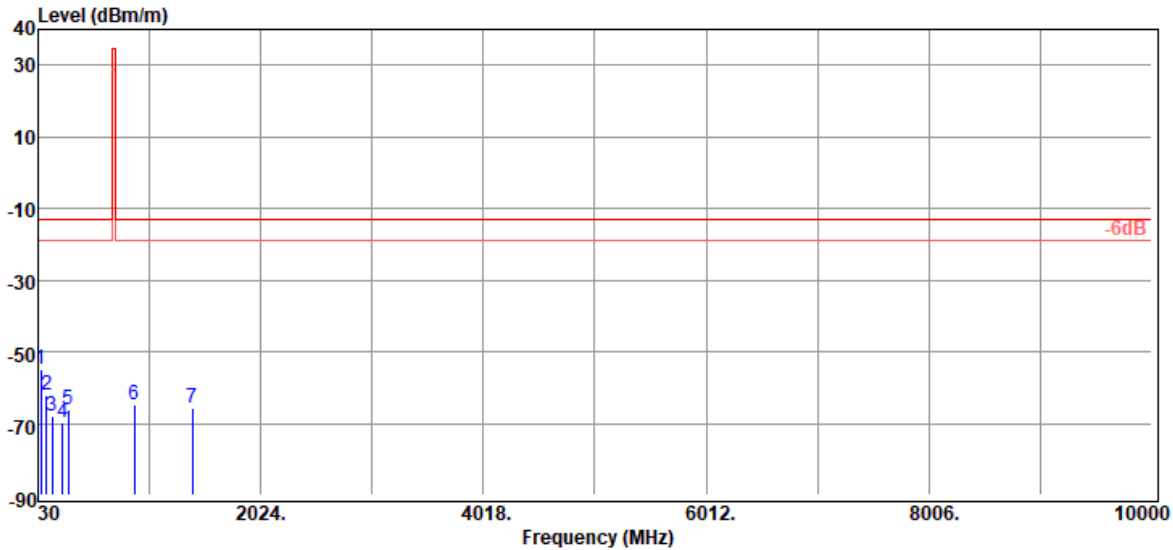
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :707.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



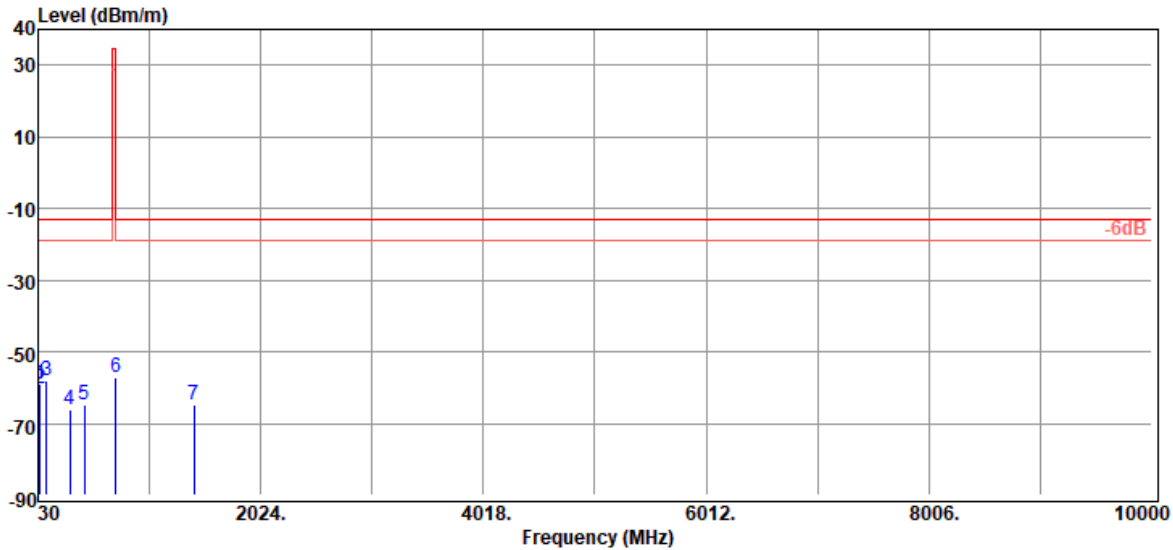
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-54.87	-37.46	-16.48	-0.93	-13.00	-41.87
103.72	-62.33	-54.32	-6.64	-1.37	-13.00	-49.33
158.04	-67.86	-59.11	-7.07	-1.68	-13.00	-54.86
253.10	-69.59	-65.81	-1.54	-2.24	-13.00	-56.59
303.54	-66.31	-62.26	-1.46	-2.59	-13.00	-53.31
892.33	-64.69	-58.65	-1.43	-4.61	-13.00	-51.69
1415.00	-65.82	-66.39	7.12	-6.55	-13.00	-52.82

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :713.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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	-58.84	-39.69	-18.29	-0.86	-13.00	-45.84
51.34	-60.11	-41.90	-17.33	-0.88	-13.00	-47.11
102.75	-58.18	-50.34	-6.48	-1.36	-13.00	-45.18
318.09	-65.94	-61.74	-1.45	-2.75	-13.00	-52.94
447.10	-64.61	-60.27	-1.42	-2.92	-13.00	-51.61
729.37	-56.98	-51.24	-1.46	-4.28	-13.00	-43.98
1427.00	-64.74	-65.39	7.22	-6.57	-13.00	-51.74

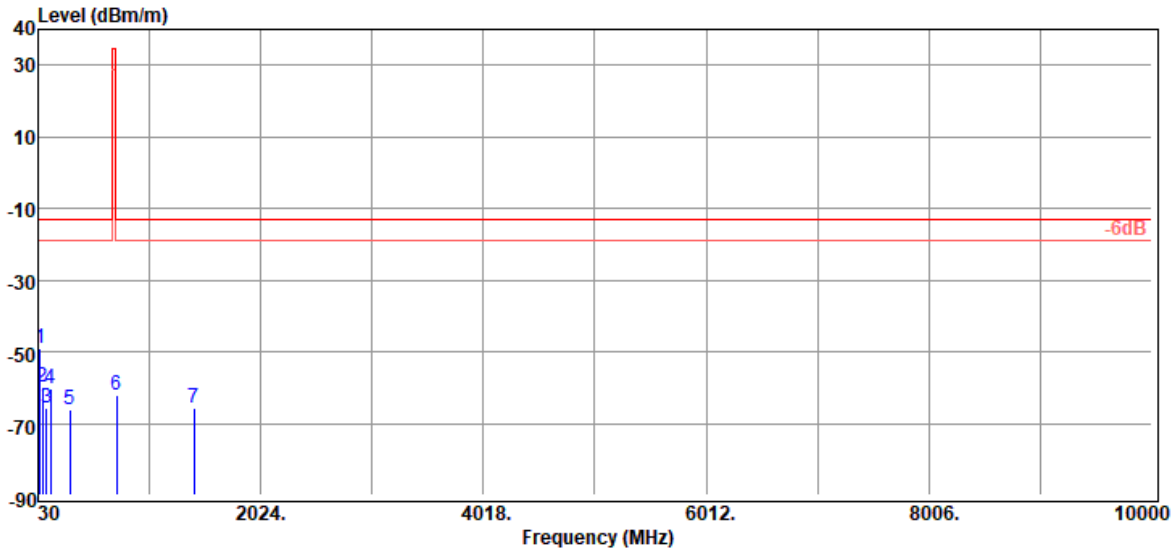
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :713.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
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
50.37	-48.98	-30.61	-17.50	-0.87	-13.00	-35.98
70.74	-60.01	-47.28	-11.72	-1.01	-13.00	-47.01
103.72	-65.87	-57.86	-6.64	-1.37	-13.00	-52.87
144.46	-60.27	-50.96	-7.64	-1.67	-13.00	-47.27
312.27	-66.33	-62.09	-1.49	-2.75	-13.00	-53.33
730.34	-62.03	-56.25	-1.47	-4.31	-13.00	-49.03
1427.00	-65.67	-66.32	7.22	-6.57	-13.00	-52.67

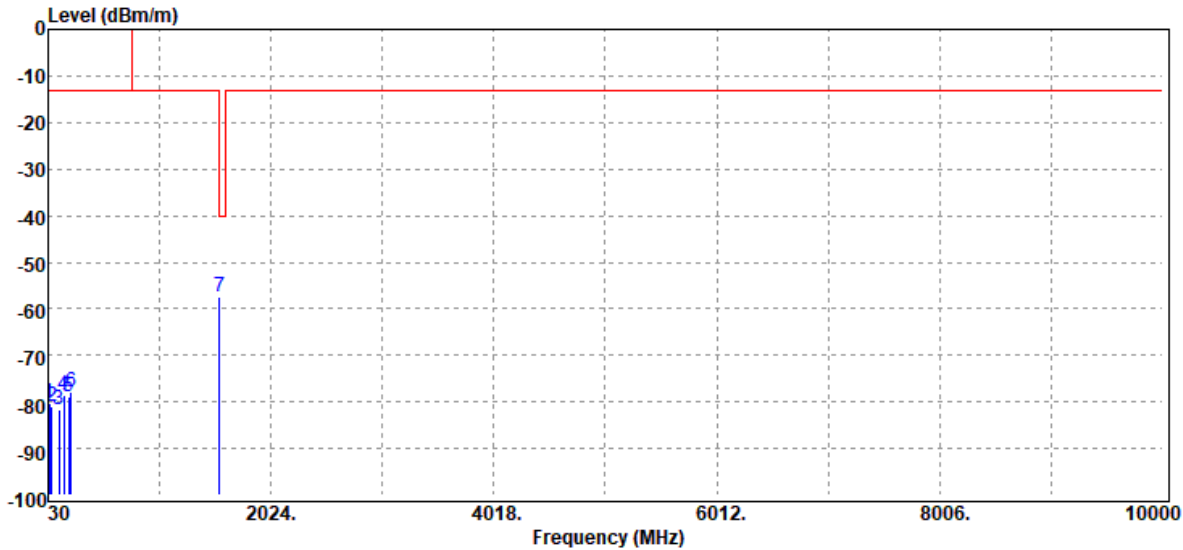
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Report Number :E2-2020-30003-01
Operation Mode :Cat-M1 B13
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC III Chamber
Test Date :2020-12-16
Temp./Humi. :22.6/59
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-80.35	-60.10	-19.64	-0.61	-13.00	-67.35
65.89	-80.97	-72.83	-7.35	-0.79	-13.00	-67.97
125.06	-81.55	-73.24	-7.29	-1.02	-13.00	-68.55
170.65	-78.41	-74.56	-2.58	-1.27	-13.00	-65.41
214.30	-78.75	-76.35	-1.03	-1.37	-13.00	-65.75
233.70	-77.82	-74.82	-1.55	-1.45	-13.00	-64.82
1564.00	-57.57	-63.13	9.31	-3.75	-40.00	-17.57

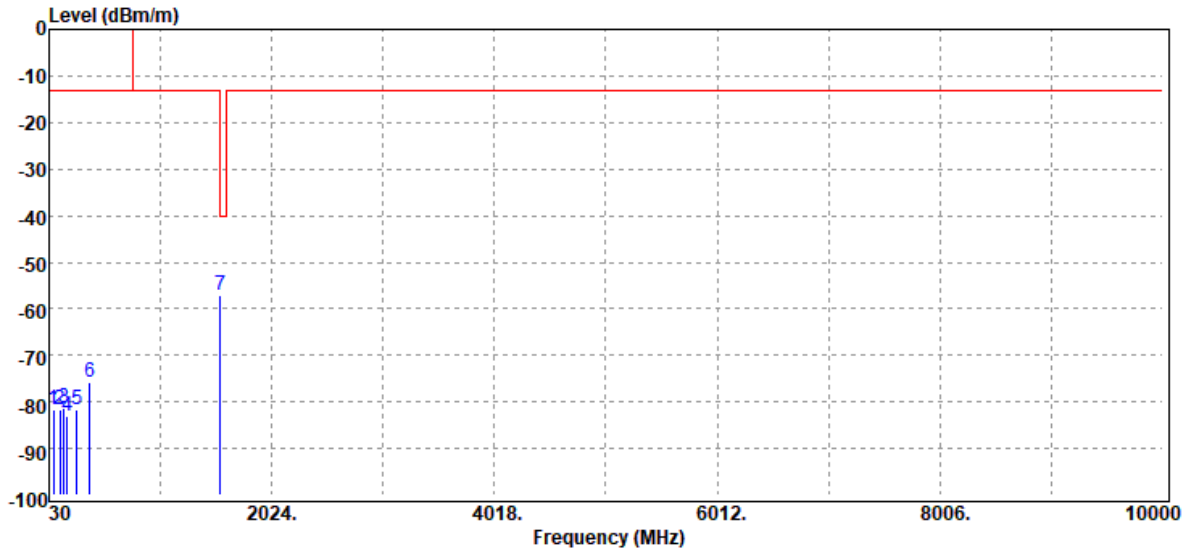
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 Operation Mode :Cat-M1 B13
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :782 MHz

Test Site :SAC III Chamber
 Test Date :2020-12-16
 Temp./Humi. :22.6/59
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-81.73	-73.98	-6.93	-0.82	-13.00	-68.73
125.06	-81.50	-73.19	-7.29	-1.02	-13.00	-68.50
162.89	-81.38	-76.67	-3.49	-1.22	-13.00	-68.38
190.05	-82.99	-80.27	-1.45	-1.27	-13.00	-69.99
280.26	-81.77	-78.64	-1.58	-1.55	-13.00	-68.77
393.75	-75.88	-72.61	-1.45	-1.82	-13.00	-62.88
1564.00	-57.04	-62.60	9.31	-3.75	-40.00	-17.04

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台灣檢驗科技股份有限公司

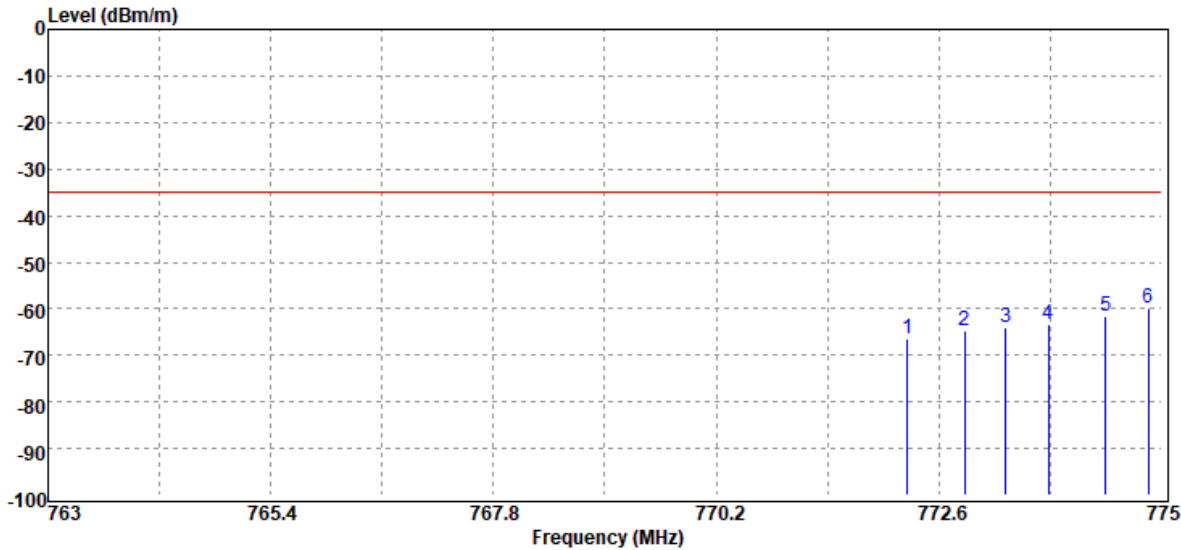
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Member of SGS Group

Report Number :E2-2020-30003-01
Operation Mode :Cat-M1 B13
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC III Chamber
Test Date :2020-12-16
Temp./Humi. :22.6/59
Antenna Pol. :VERTICAL
Engineer :Nick


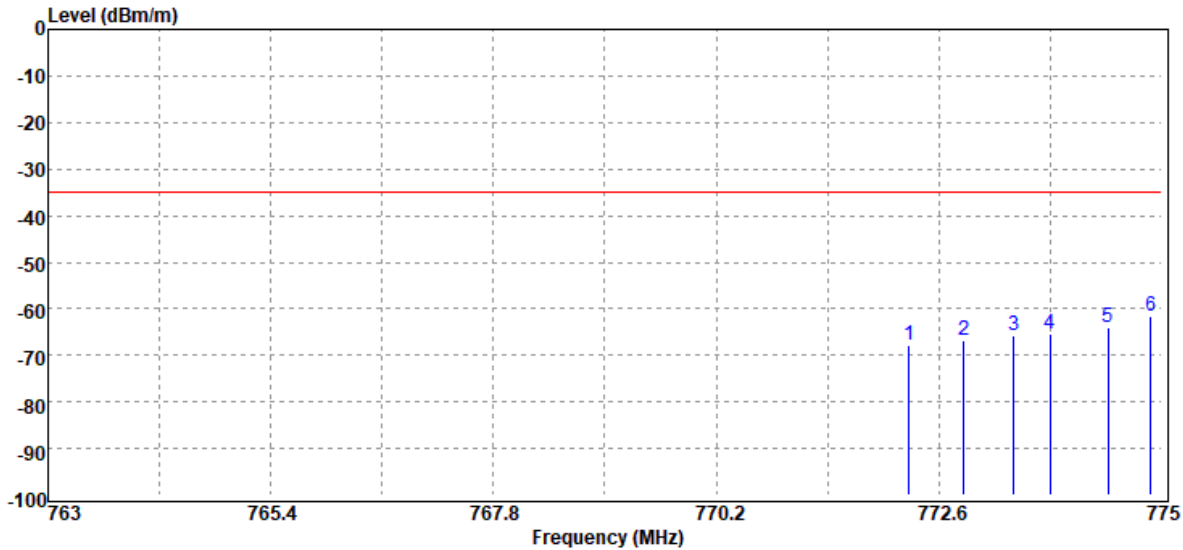
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
772.26	-66.26	-64.01	-0.06	-2.19	-35.00	-31.26
772.88	-64.69	-62.42	-0.08	-2.19	-35.00	-29.69
773.32	-64.00	-61.71	-0.09	-2.20	-35.00	-29.00
773.78	-63.47	-61.16	-0.11	-2.20	-35.00	-28.47
774.40	-61.71	-59.38	-0.12	-2.21	-35.00	-26.71
774.86	-59.86	-57.50	-0.14	-2.22	-35.00	-24.86

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Report Number :E2-2020-30003-01
Operation Mode :Cat-M1 B13
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC III Chamber
Test Date :2020-12-16
Temp./Humi. :22.6/59
Antenna Pol. :HORIZONTAL
Engineer :Nick


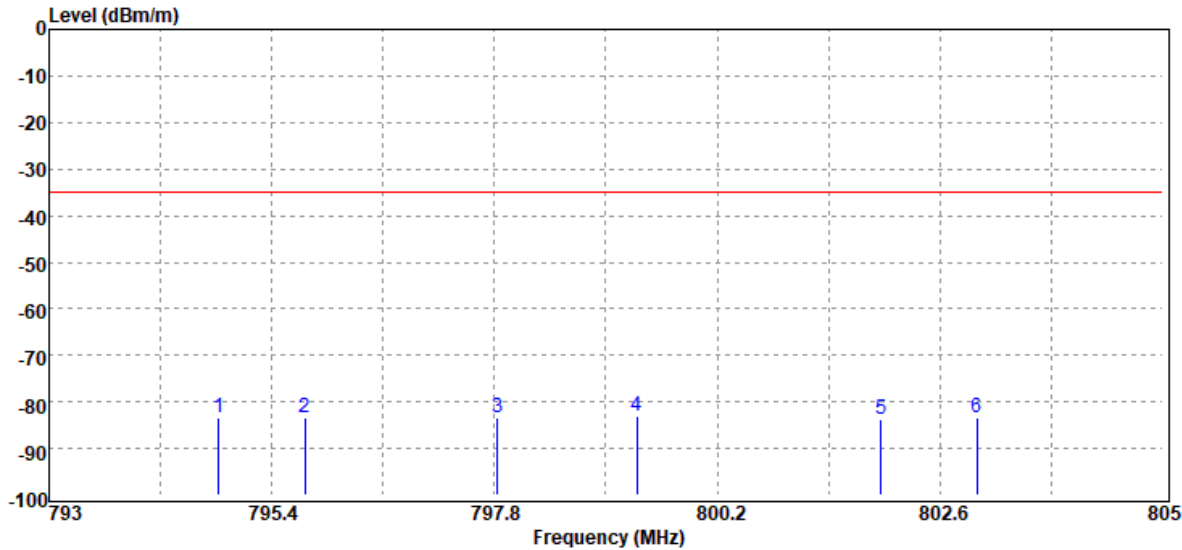
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
772.28	-67.92	-65.67	-0.06	-2.19	-35.00	-32.92
772.86	-66.65	-64.38	-0.08	-2.19	-35.00	-31.65
773.40	-65.90	-63.61	-0.09	-2.20	-35.00	-30.90
773.80	-65.23	-62.92	-0.11	-2.20	-35.00	-30.23
774.42	-63.87	-61.54	-0.12	-2.21	-35.00	-28.87

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Operation Mode :Cat-M1 B13
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC III Chamber
Test Date :2020-12-16
Temp./Humi. :22.6/59
Antenna Pol. :VERTICAL
Engineer :Nick


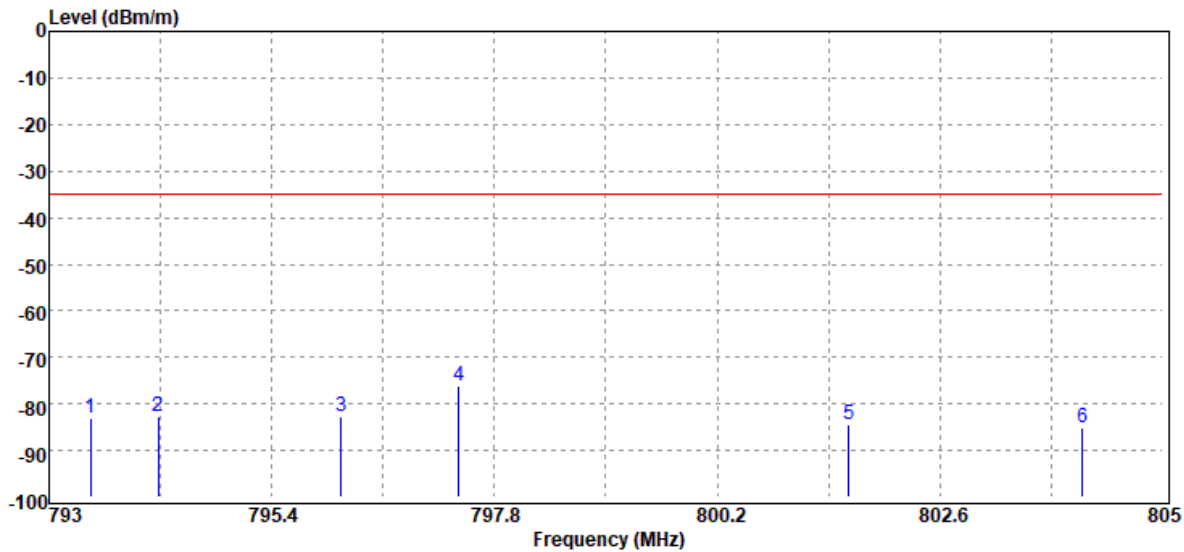
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
794.82	-83.41	-80.84	0.18	-2.75	-35.00	-48.41
795.76	-83.29	-80.69	0.17	-2.77	-35.00	-48.29
797.84	-83.34	-80.70	0.15	-2.79	-35.00	-48.34
799.34	-83.05	-80.38	0.14	-2.81	-35.00	-48.05
801.96	-83.71	-81.01	0.12	-2.82	-35.00	-48.71
803.00	-83.50	-80.80	0.11	-2.81	-35.00	-48.50

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EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC III Chamber
Test Date :2020-12-16
Temp./Humi. :22.6/59
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.44	-83.11	-80.57	0.19	-2.73	-35.00	-48.11
794.18	-82.74	-80.19	0.19	-2.74	-35.00	-47.74
796.14	-82.58	-79.98	0.17	-2.77	-35.00	-47.58
797.42	-76.18	-73.55	0.16	-2.79	-35.00	-41.18
801.62	-84.43	-81.73	0.12	-2.82	-35.00	-49.43
804.14	-84.96	-82.25	0.10	-2.81	-35.00	-49.96

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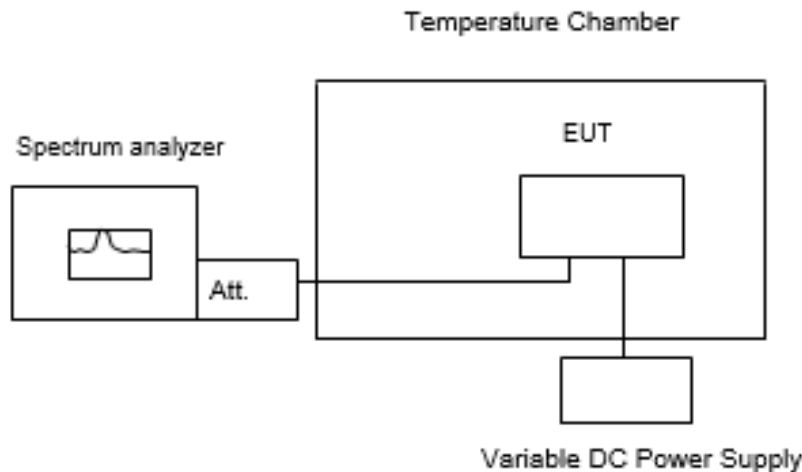
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicable

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

Set chamber temperature to 25°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.
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/09/2019	07/08/2020
Splitter	Woken	DOM35LW1A2	RF36	11/20/2019	11/19/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

Add Cat M1 Band 13

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54200716	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	01/02/2020	01/01/2021

10.5 Measurement Result

Note: The battery is rated 3.7V dc.

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10.5.1 Cat M1

Reference Freq.:		M1 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					
4.255	25	1879.999997	-3	4700	
3.7	25	1880.000006	6	4700	
3.6	25	1879.999995	-5	4700	
3.5 (End Point)	25	1879.999998	-2	4700	
Freq. ERROR vs. Temp.					
3.7	-30	1880.000001	1	4700	
3.7	-20	1880.000000	0	4700	
3.7	-10	1880.000001	1	4700	
3.7	0	1880.000006	6	4700	
3.7	10	1880.000009	9	4700	
3.7	20	1880.000004	4	4700	
3.7	30	1880.000006	6	4700	
3.7	40	1879.999997	-3	4700	
3.7	50	1880.000004	4	4700	

Reference Freq.:		M1 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					
4.255	25	1732.499999	-1	4331	
3.7	25	1732.500005	5	4331	
3.6	25	1732.500008	8	4331	
3.5 (End Point)	25	1732.500003	3	4331	
Freq. ERROR vs. Temp.					
3.7	-30	1732.500000	0	4331	
3.7	-20	1732.500008	8	4331	
3.7	-10	1732.500003	3	4331	
3.7	0	1732.499999	-1	4331	
3.7	10	1732.500008	8	4331	
3.7	20	1732.500008	8	4331	
3.7	30	1732.499995	-5	4331	
3.7	40	1732.500000	0	4331	
3.7	50	1732.500007	7	4331	

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Reference Freq.:		M1 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					
4.255	25	707.500002	2	1769	
3.7	25	707.500001	1	1769	
3.6	25	707.499999	-1	1769	
3.5 (End Point)	25	707.499995	-5	1769	
Freq. ERROR vs. Temp.					
3.7	-30	707.500000	0	1769	
3.7	-20	707.499998	-2	1769	
3.7	-10	707.499999	-1	1769	
3.7	0	707.499995	-5	1769	
3.7	10	707.500002	2	1769	
3.7	20	707.500000	0	1769	
3.7	30	707.500006	6	1769	
3.7	40	707.500002	2	1769	
3.7	50	707.499999	-1	1769	
Reference Freq.:		M1 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					
4.255	25	782.000006	5.999999985	1955	
3.7	25	782.000012	11.99999997	1955	
3.6	25	781.999997	-2.99999999	1955	
3.5 (End Point)	25	782.000007	6.999999982	1955	
Freq. ERROR vs. Temp.					
3.7	-30	782.000007	6.999999982	1955	
3.7	-20	781.999990	-9.99999997	1955	
3.7	-10	782.000013	12.99999997	1955	
3.7	0	781.999992	-7.99999998	1955	
3.7	10	782.000006	5.999999985	1955	
3.7	20	782.000009	8.999999977	1955	
3.7	30	782.000005	4.999999987	1955	
3.7	40	781.999996	-3.99999999	1955	
3.7	50	781.999988	-12	1955	

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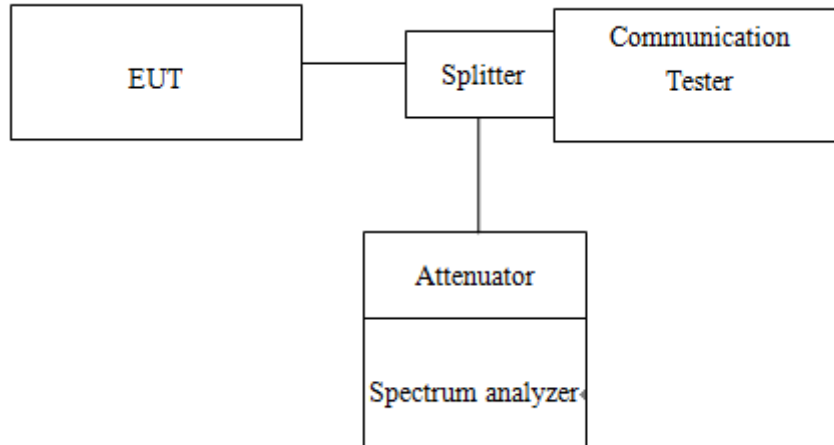
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11 PEAK TO AVERAGE RATIO

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.
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Splitter	Woken	DOM35LW1A2	RF36	11/20/2019	11/19/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

Add Cat M1 Band 13

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54200716	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	01/02/2020	01/01/2021

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11.5 Measurement Result

11.5.1 Cat M1

M1 BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1850.7	18607	11.51	13	1851.5	18615	10.14	13
1880.0	18900	9.22	13	1880.0	18900	11.34	13
1909.3	19193	8.39	13	1908.5	19185	9.84	13

M1 BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1852.5	18625	6.66	13	1855.0	18650	6.37	13
1880.0	18900	7.30	13	1880.0	18900	9.73	13
1907.5	19175	10.58	13	1905.0	19150	9.96	13

M1 BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1857.5	18675	9.91	13	1860.0	18700	4.37	13
1880.0	18900	7.61	13	1880.0	18900	6.77	13
1902.5	19125	7.52	13	1900.0	19100	7.59	13

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M1 BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1710.7	19957	10.57	13	1711.5	19965	8.29	13
1732.5	20175	11.04	13	1732.5	20175	9.85	13
1754.3	20393	11.79	13	1753.5	20385	8.08	13

M1 BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1712.5	19957	9.68	13	1715.0	20000	9.32	13
1732.5	20175	9.73	13	1732.5	20175	10.84	13
1752.5	20375	6.81	13	1750.0	20350	10.02	13

M1 BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1717.5	20025	9.53	13	1720.0	20050	8.55	13
1732.5	20175	7.55	13	1732.5	20175	6.43	13
1747.5	20325	7.59	13	1745.0	20300	8.98	13

M1 BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
699.7	23017	10.78	13	700.5	23025	6.68	13
707.5	23095	8.74	13	707.5	23095	8.00	13
715.3	23173	8.46	13	714.5	23165	8.51	13

M1 BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
701.5	23035	10.06	13	704.0	23060	10.42	13
707.5	23095	9.90	13	707.5	23095	8.47	13
713.5	23155	8.89	13	711.0	23130	9.75	13

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M1 BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	10.44	13	782.0	23230	11.59	13
782.0	23230	10.86	13				
784.5	23255	9.74	13				

Please refer to next page for test plots.

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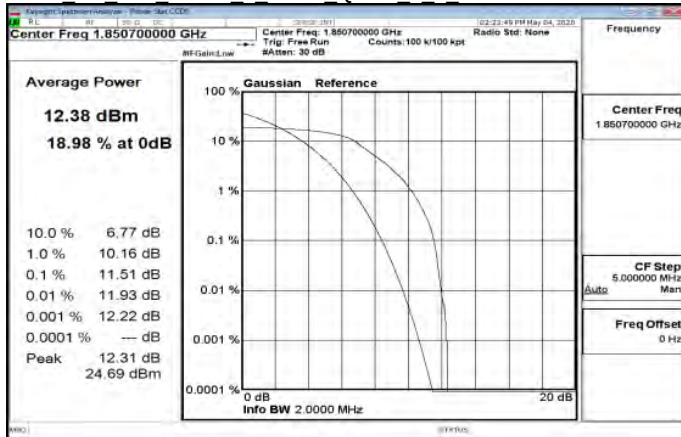
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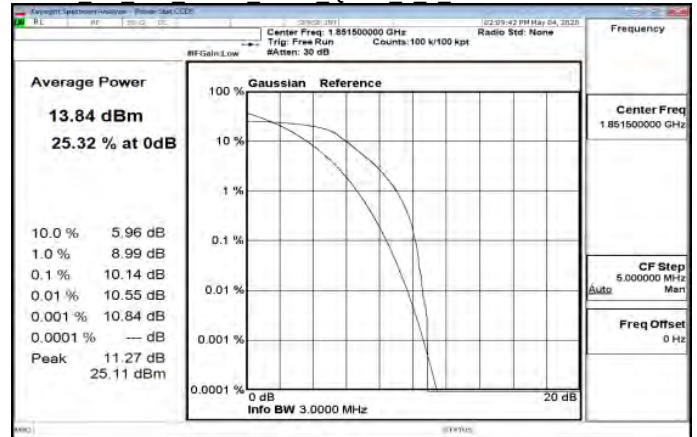
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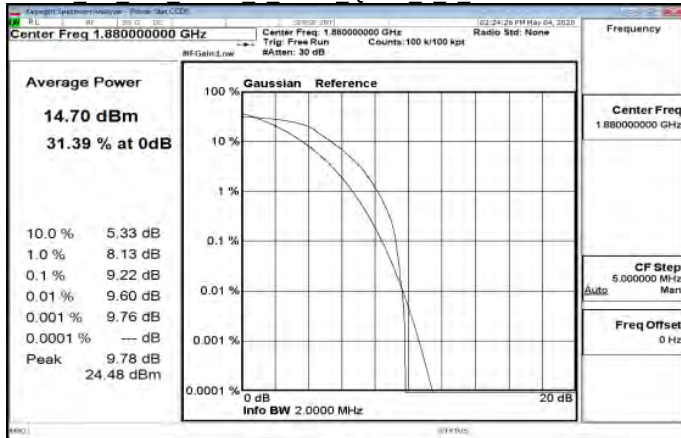
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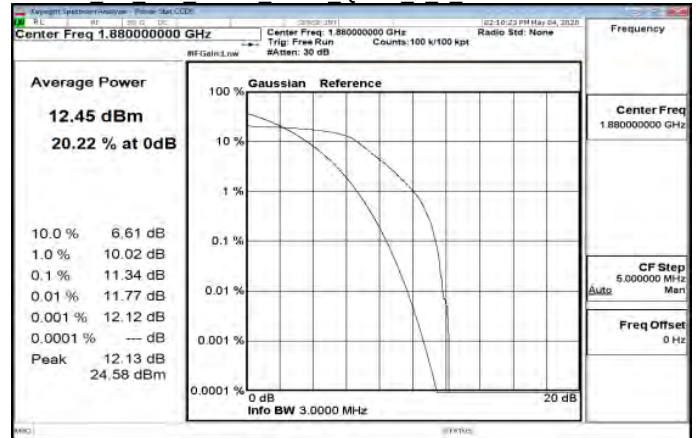
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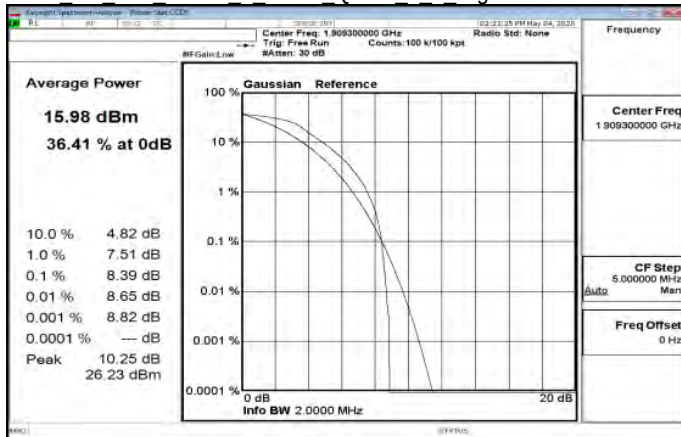
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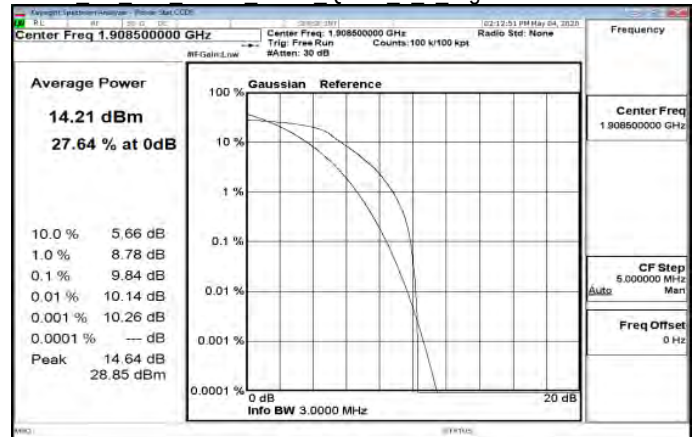
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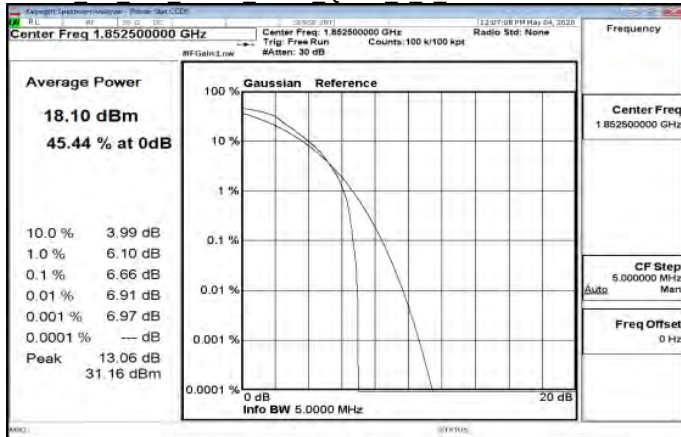
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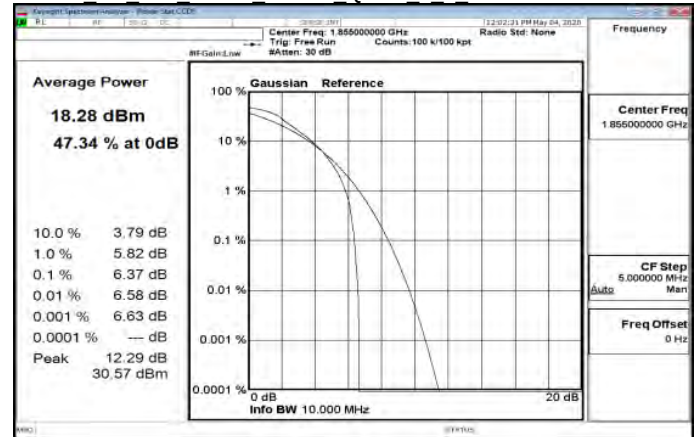
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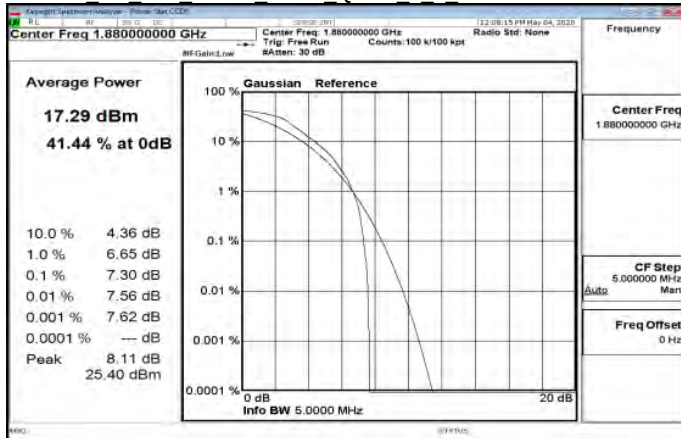
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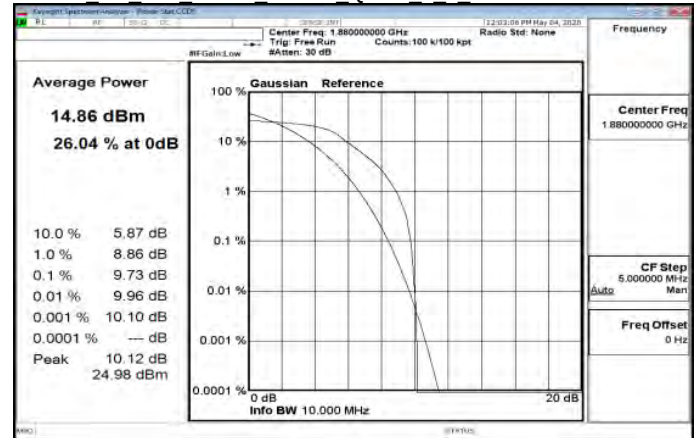
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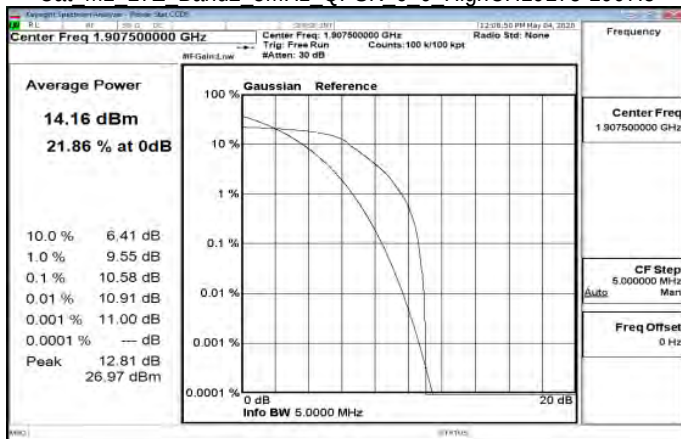
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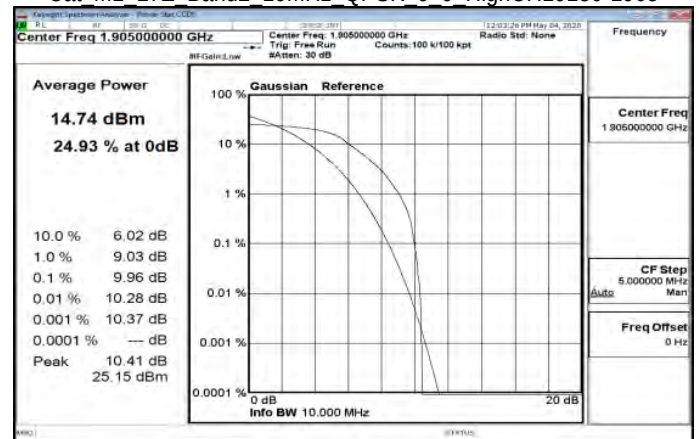
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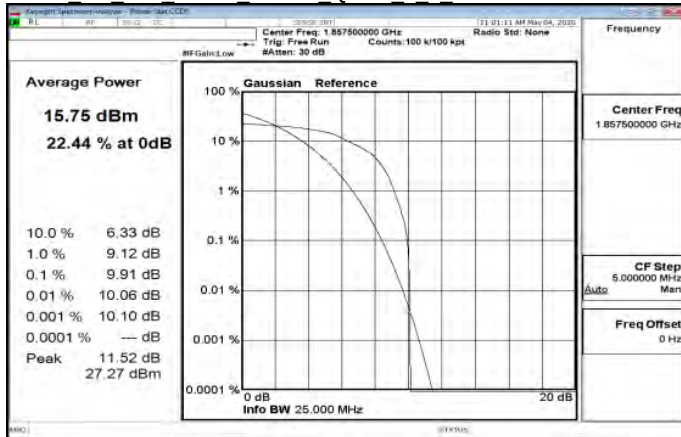


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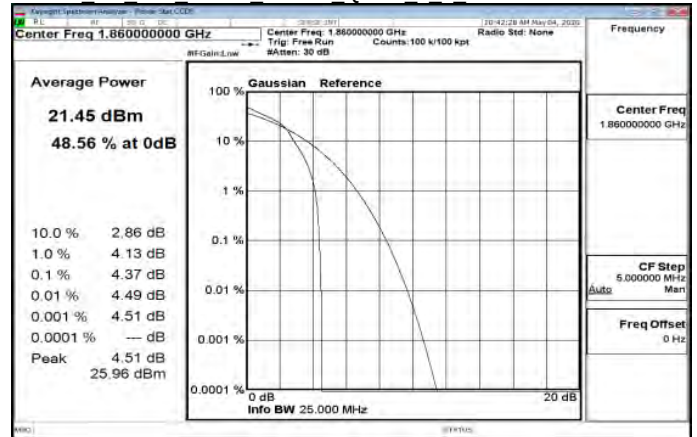
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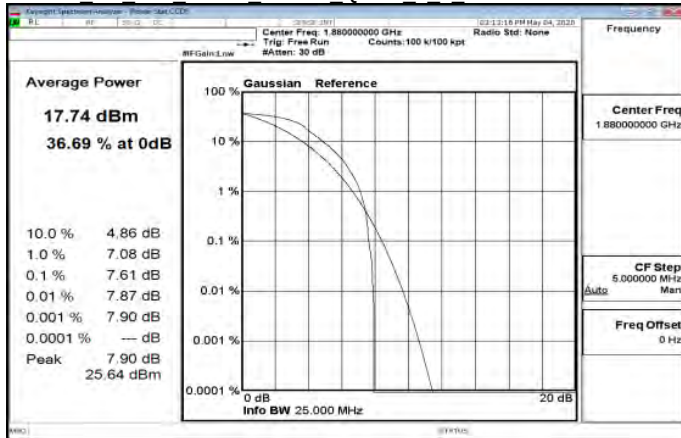
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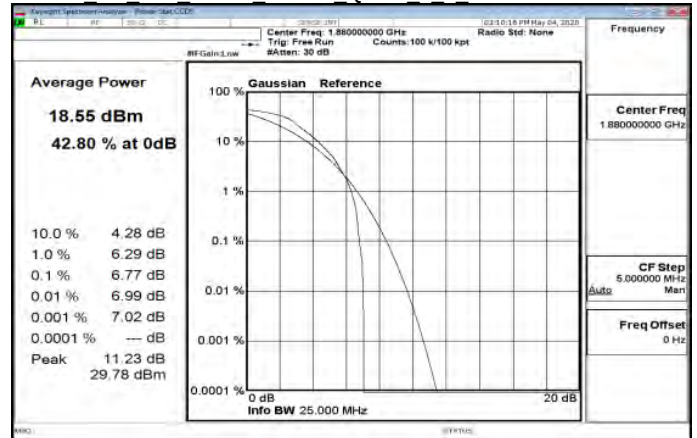
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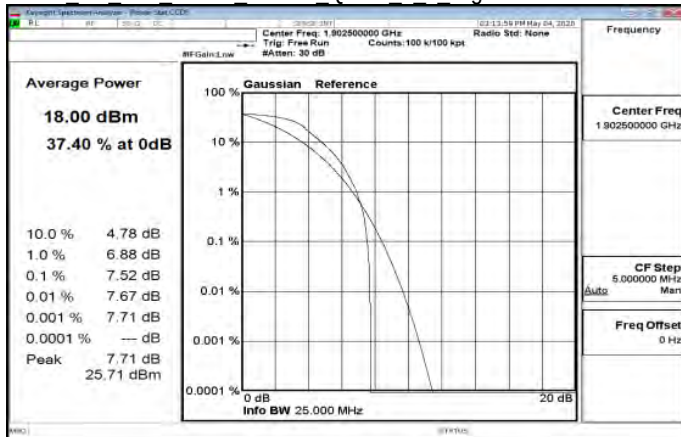
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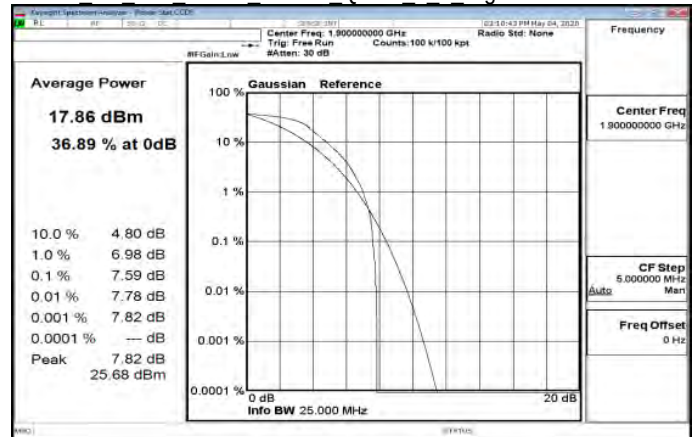
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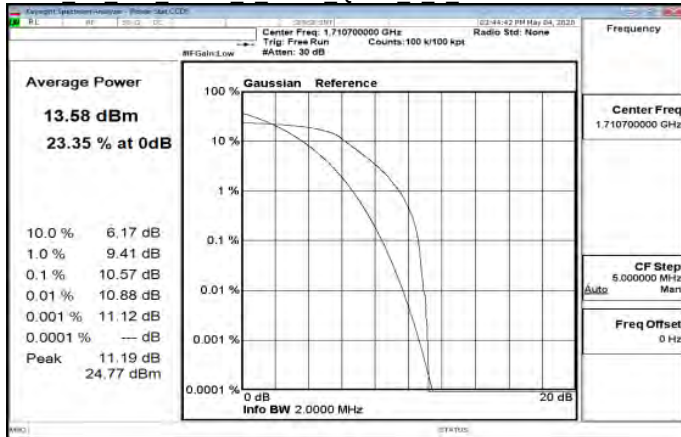
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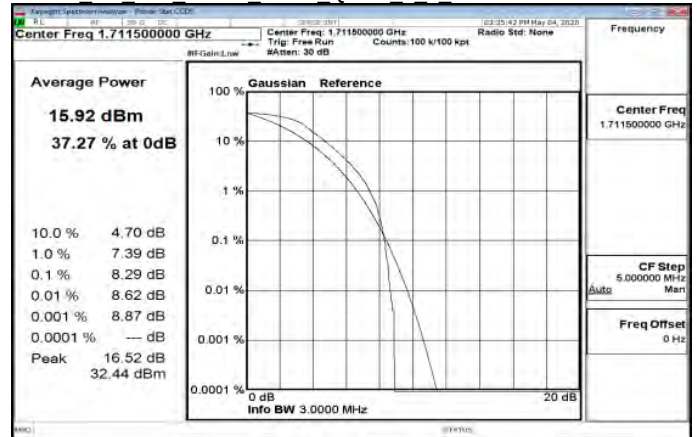
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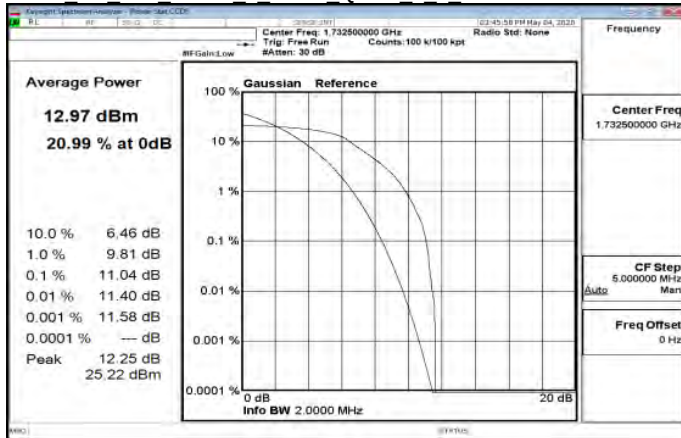
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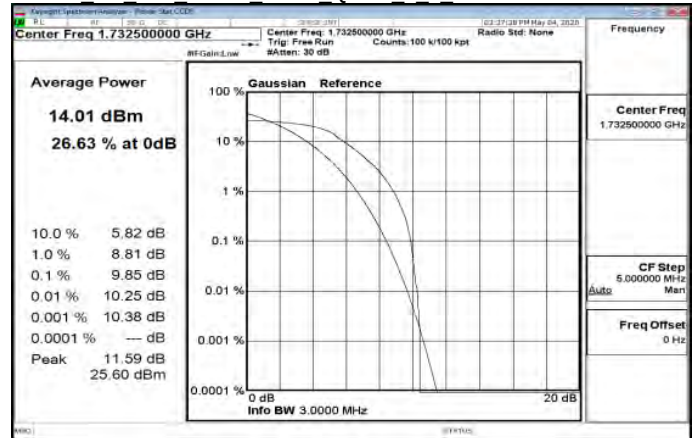
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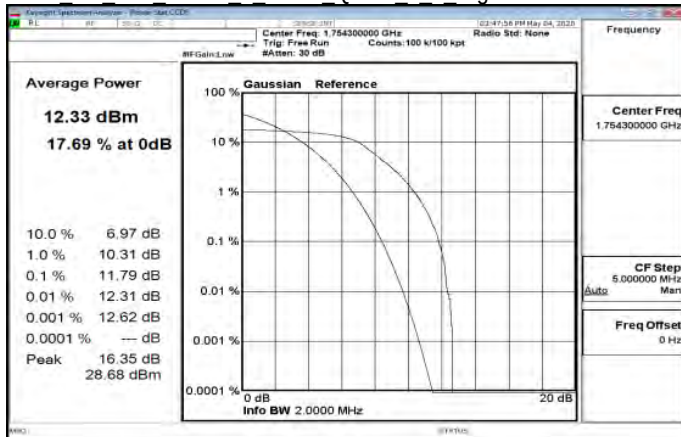
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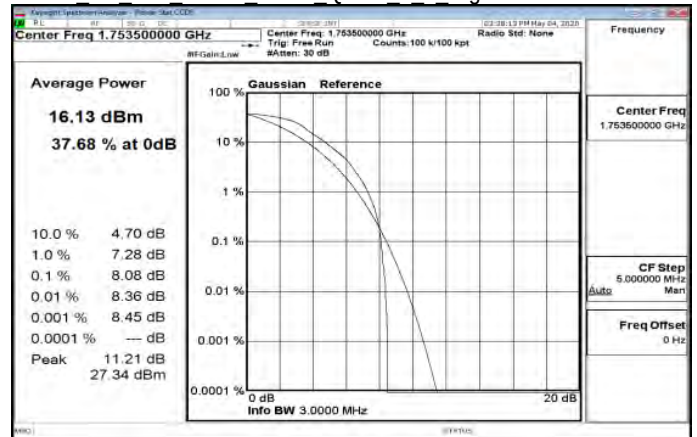
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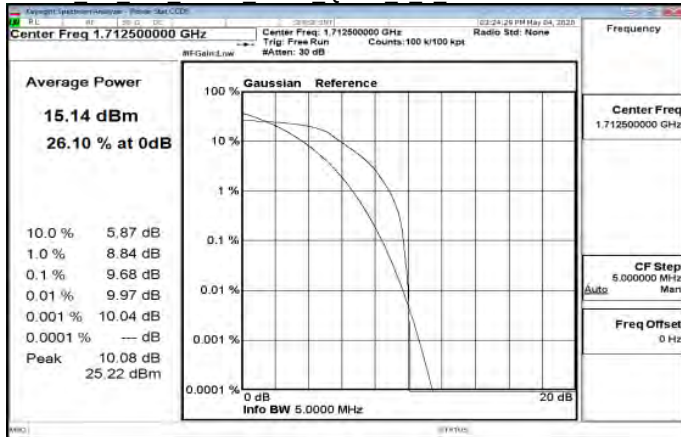


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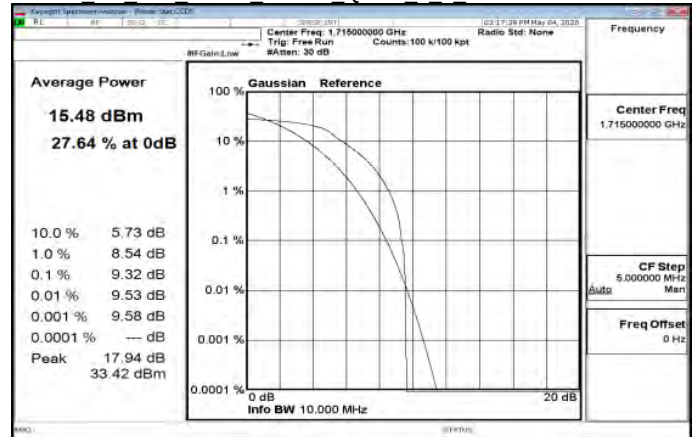
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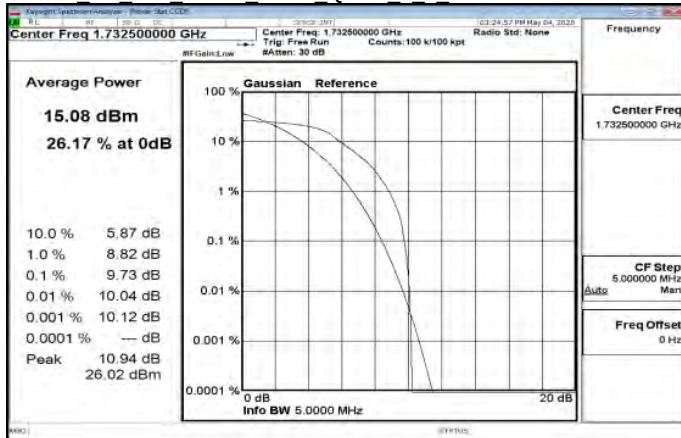
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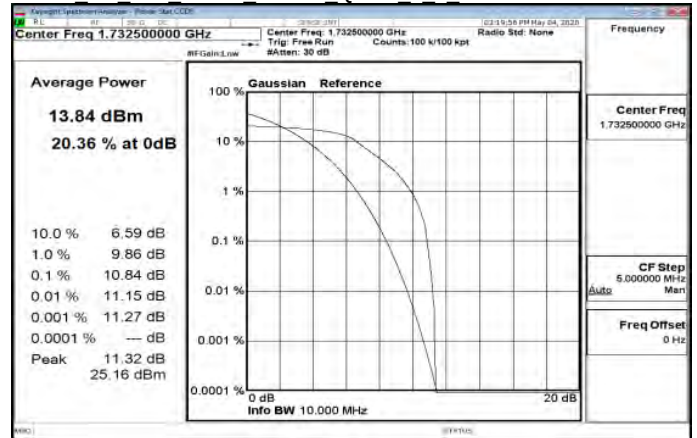
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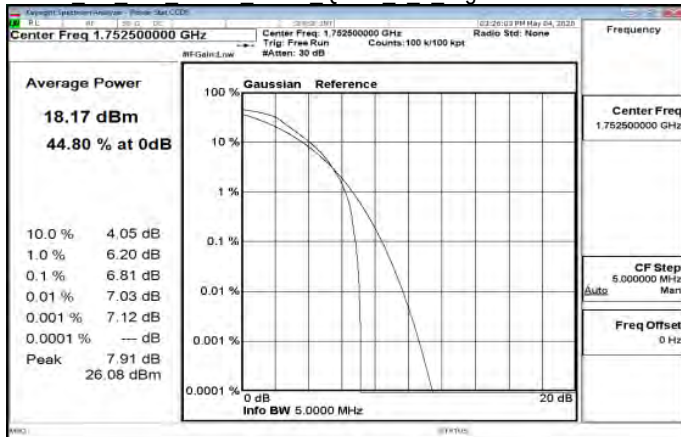
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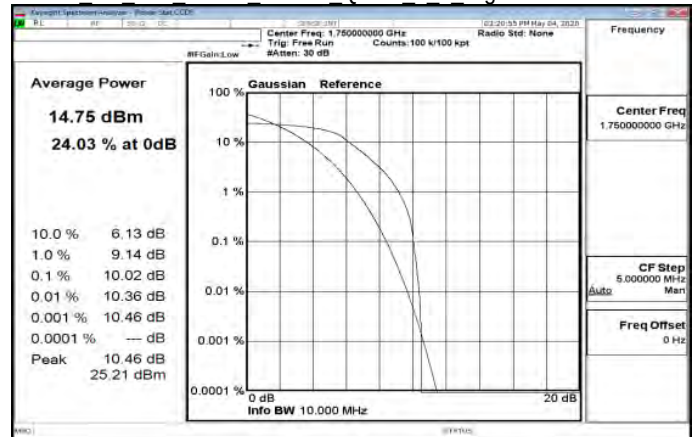
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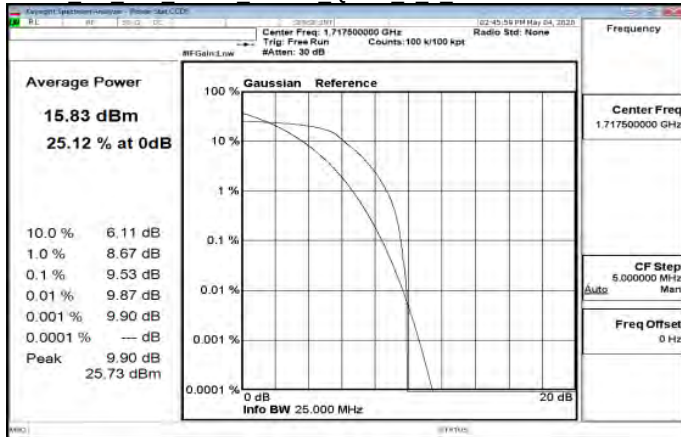
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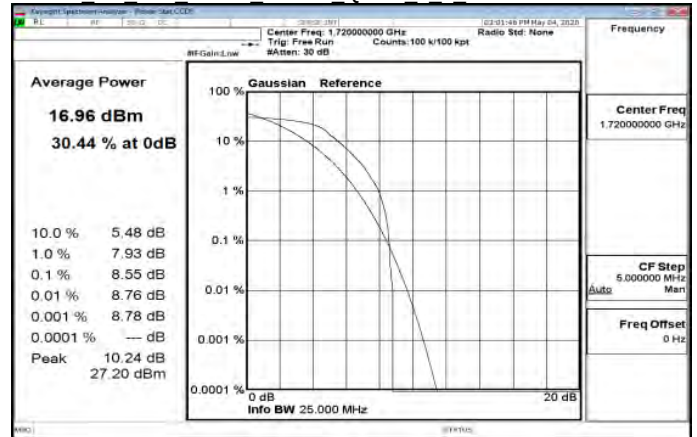
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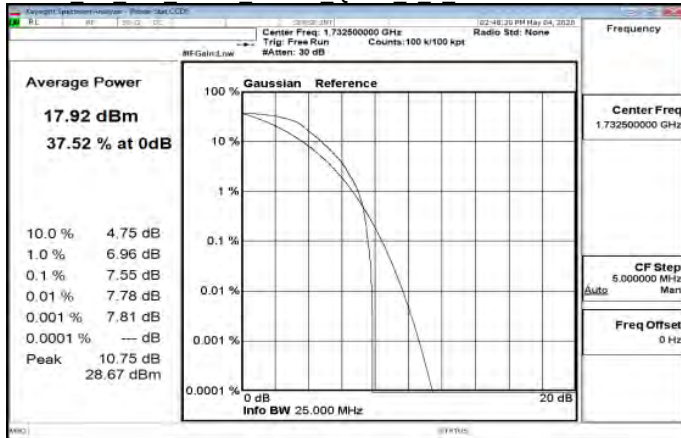
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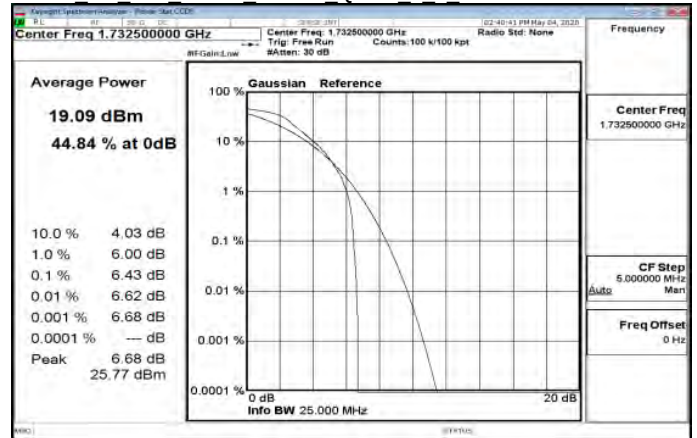
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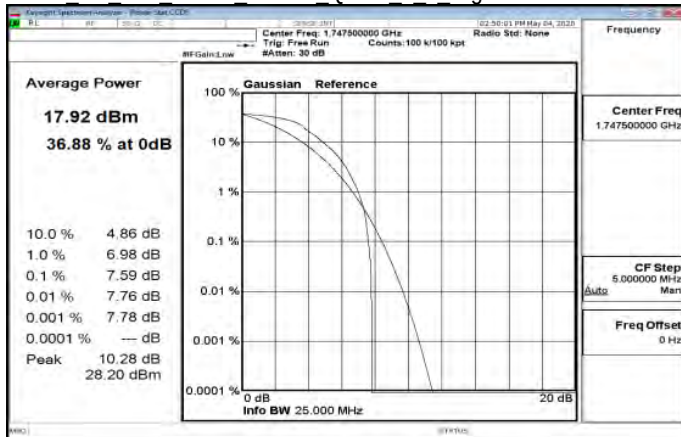
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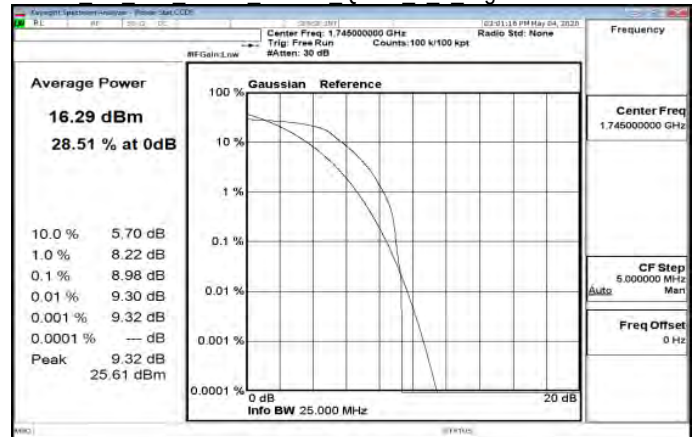
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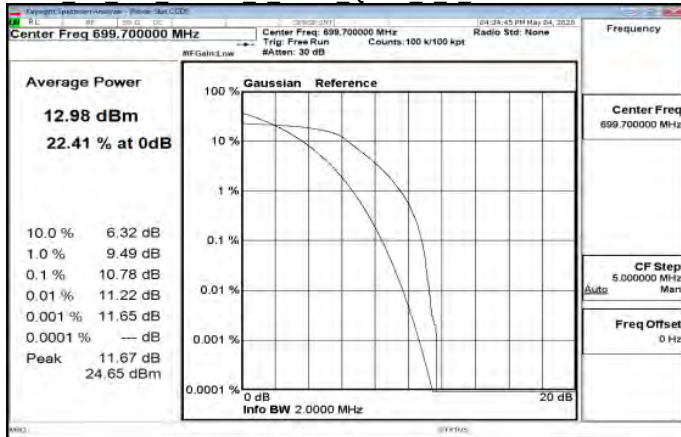


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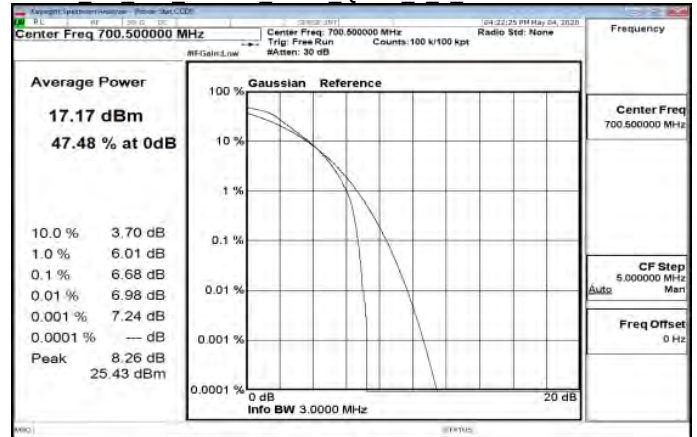
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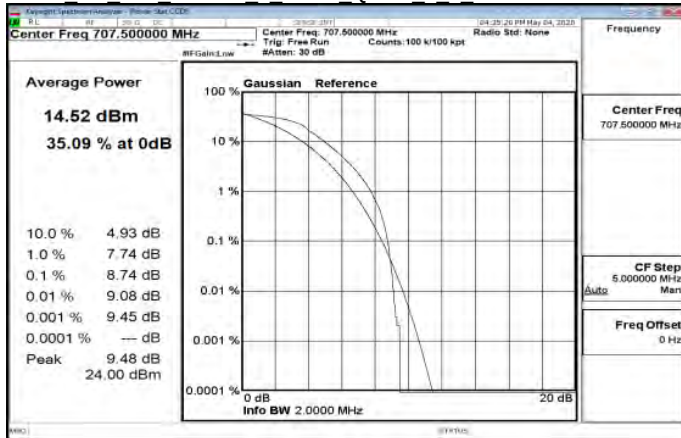
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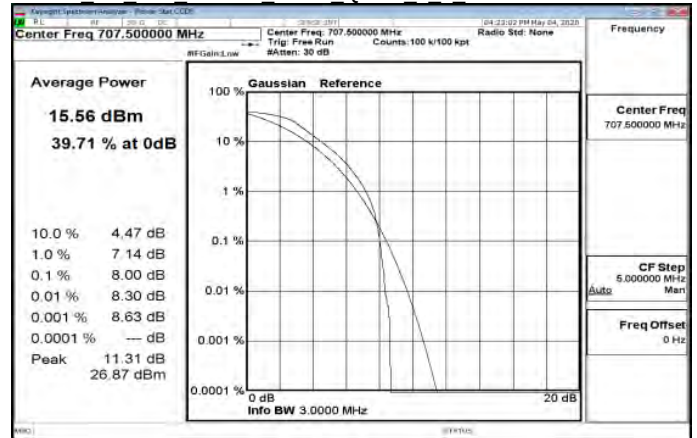
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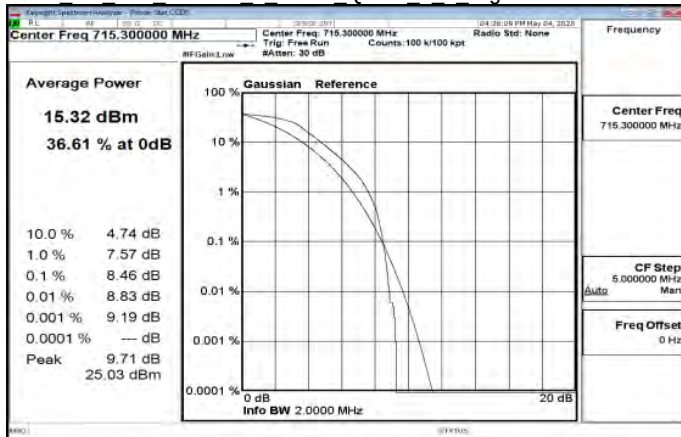
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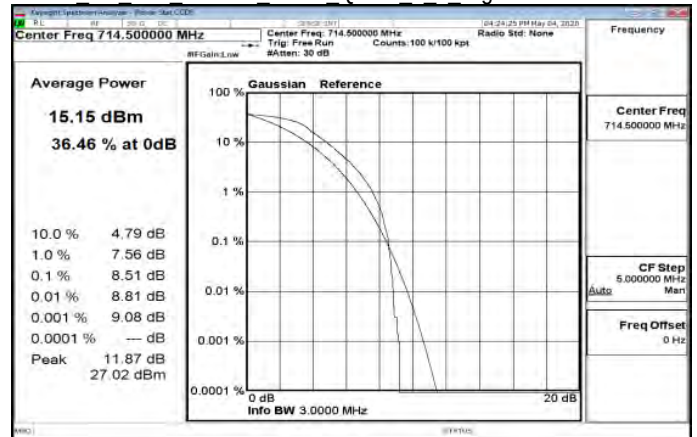
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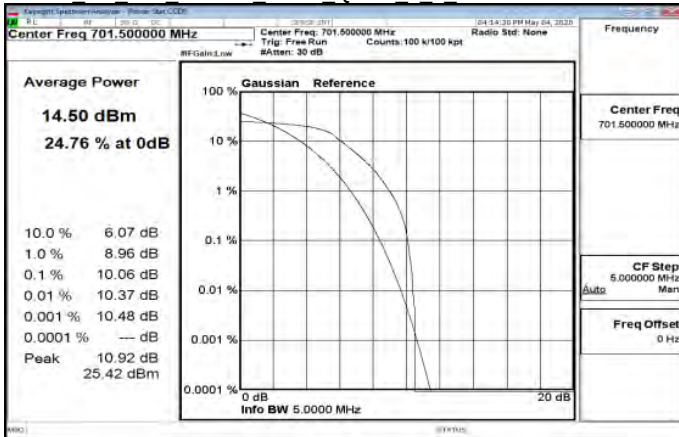


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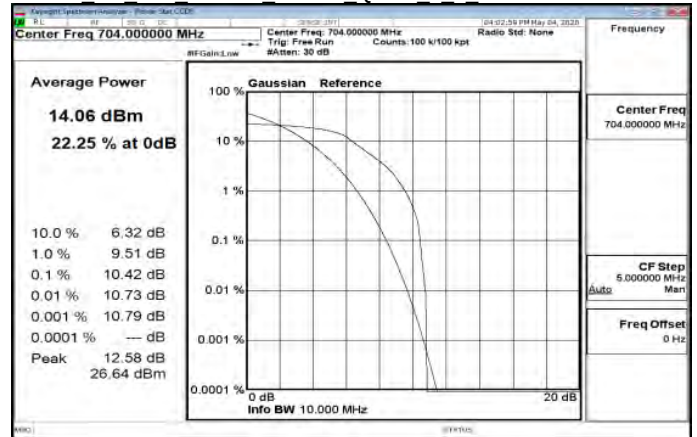
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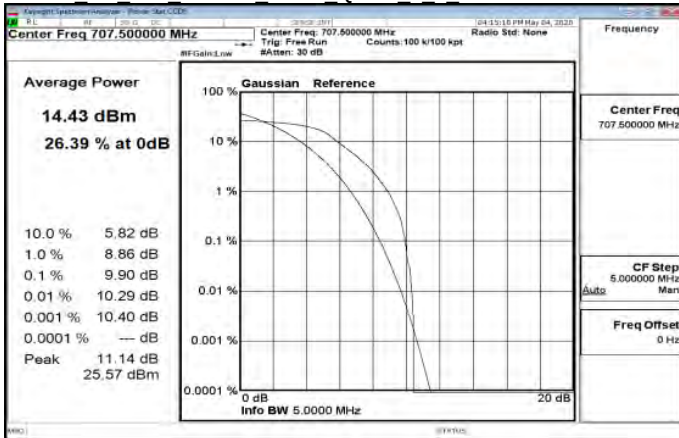
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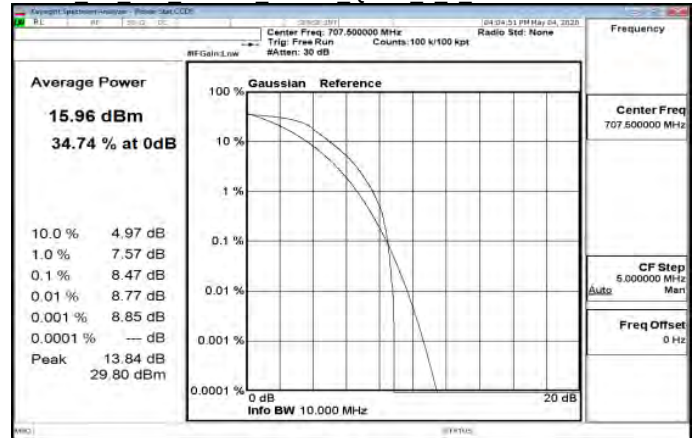
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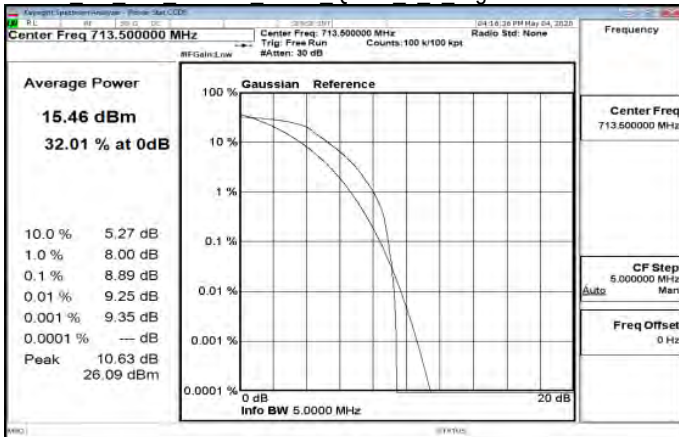
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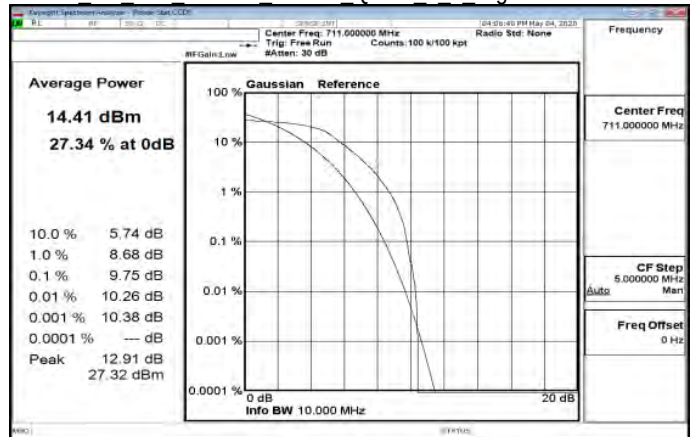
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Cat M1 LTE Band12 5MHz QPSK 6 0 HighCH23155-713.5



Cat M1 LTE Band12 10MHz QPSK 6 0 HighCH23130-711

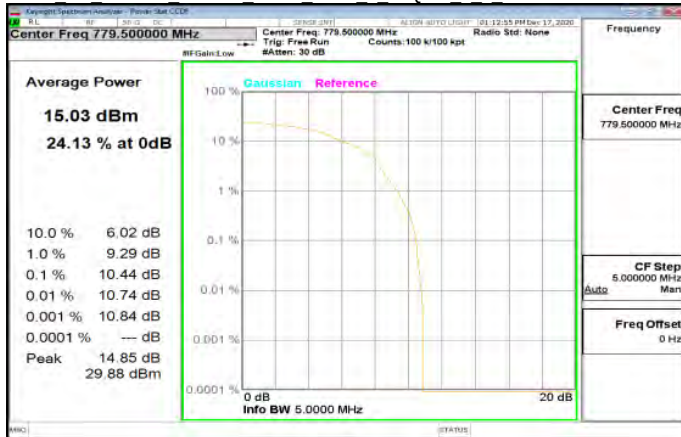


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

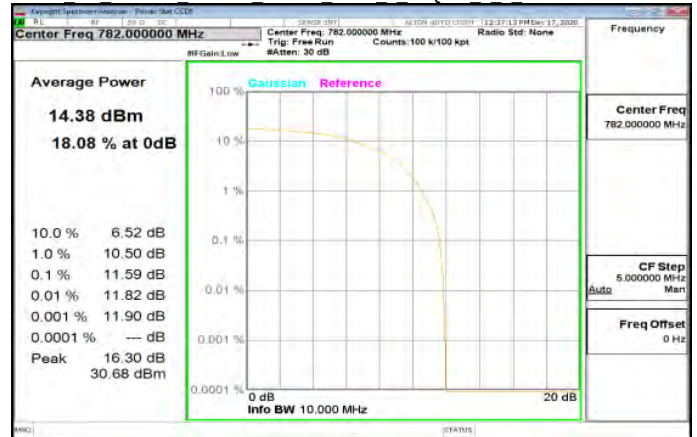
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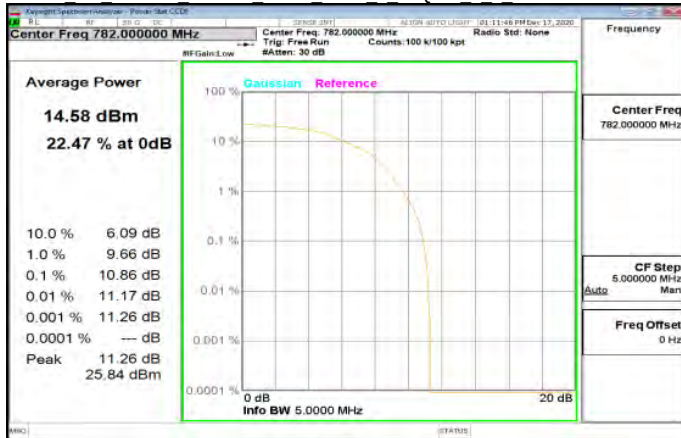
Cat M1 CAT-M1 Band13 5MHz index 0 16QAM 5 0 LowCH23205-779.5



Cat M1 CAT-M1 Band13 10MHz index 0 16QAM 5 0 MidCH23230-782



Cat M1 CAT-M1 Band13 5MHz index 0 16QAM 5 0 MidCH23230-782



~ End of Report ~

Cat M1 CAT-M1 Band13 5MHz index 3 16QAM 5 0 HighCH23255-784.5



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