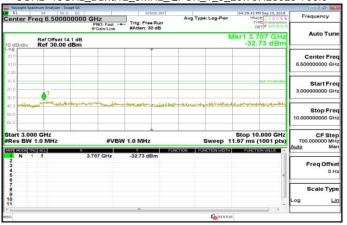




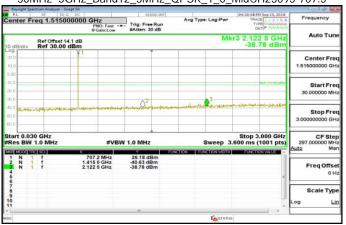
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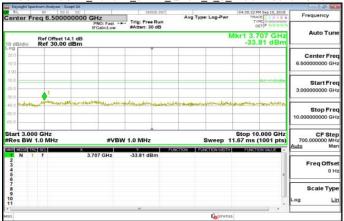
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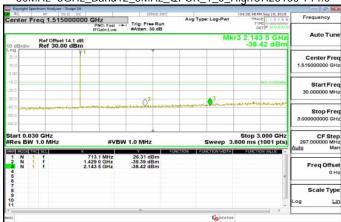
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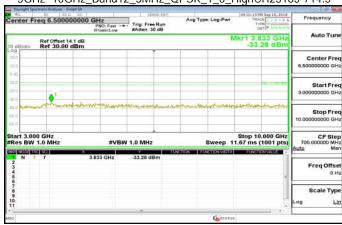
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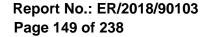
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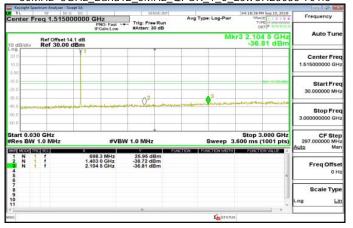
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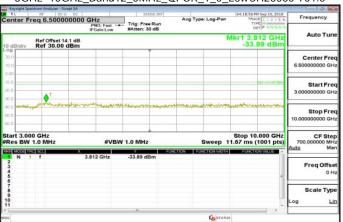




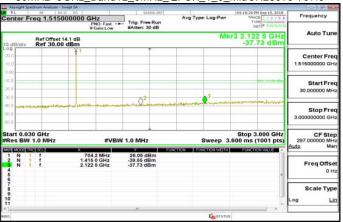
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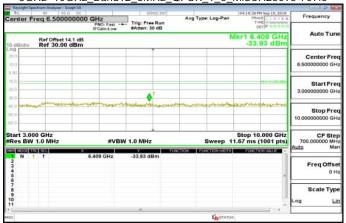
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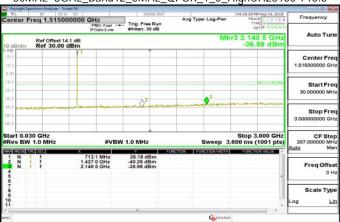
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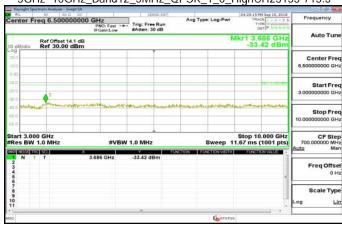
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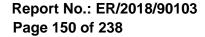


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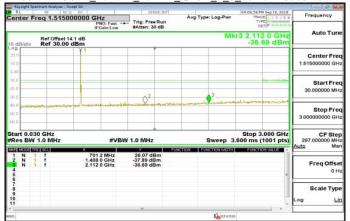
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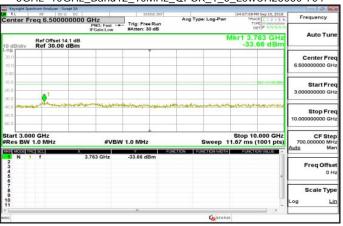




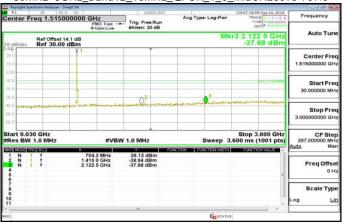
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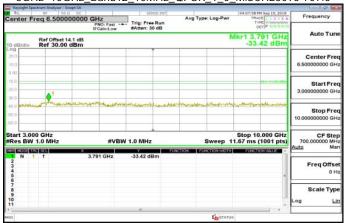
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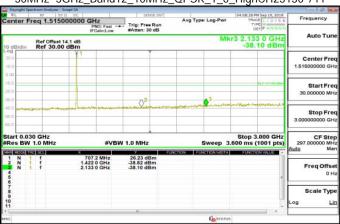
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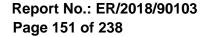
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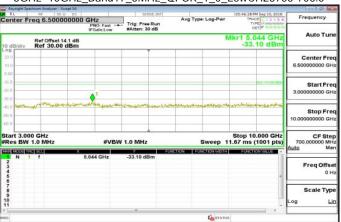




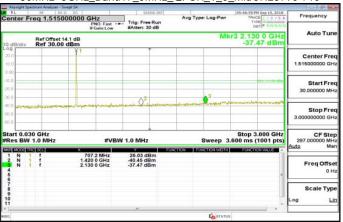
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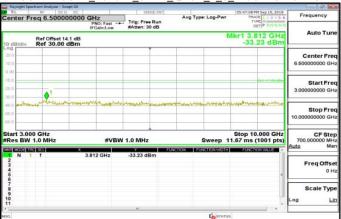
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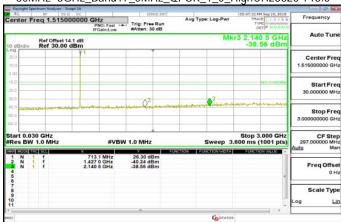
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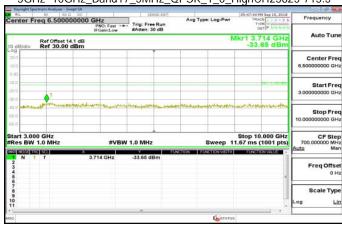
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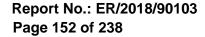
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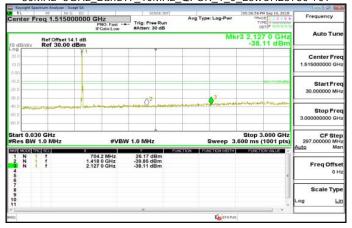
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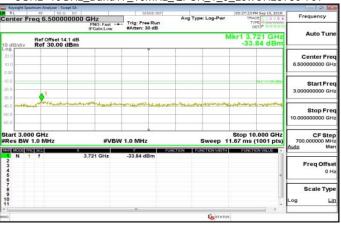




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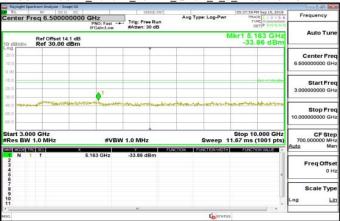
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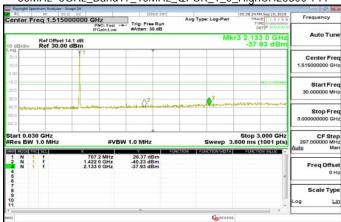
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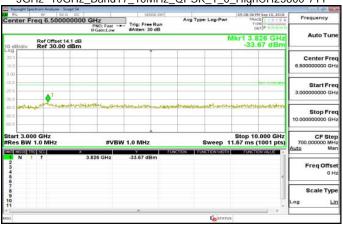
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3GHz~10GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711



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Page 153 of 238

10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 (h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53(a)

Compliance 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)

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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Page 154 of 238

FCC §27.53(m) (4)

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

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

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Page 155 of 238

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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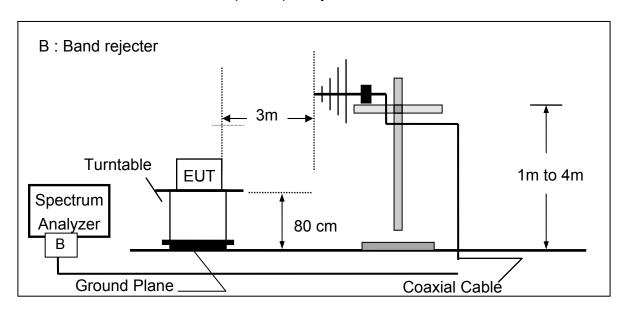




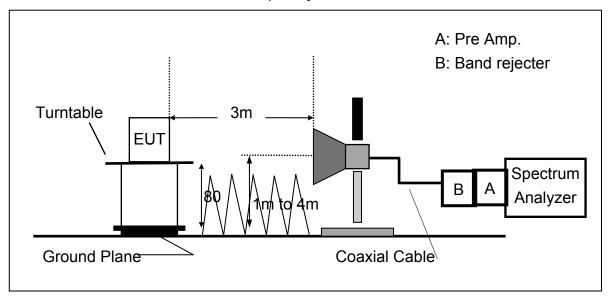
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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Page 157 of 238

10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

10.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2018/08/16	2019/08/15
Horn Antenna	Schwarzbeck	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber	N/A	2018/01/02	2019/01/01
Spectrum Analyzer	Agilent	E4446A	MY51100003	2018/05/15	2019/05/14
EMI Test Receiver	R&S	ESCI7	100335	2018/02/02	2019/02/01
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/01/01
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/01/01
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
2GHz High Pass Fil- ter	Micro-Tronics	HPM50110	36	2018/01/02	2019/01/01
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	2018/01/02	2019/01/01
Low Loss Cable	Huber Suhner	966_RX	9	2018/01/02	2019/01/01

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Page 158 of 238

10.5. Measurement Result:

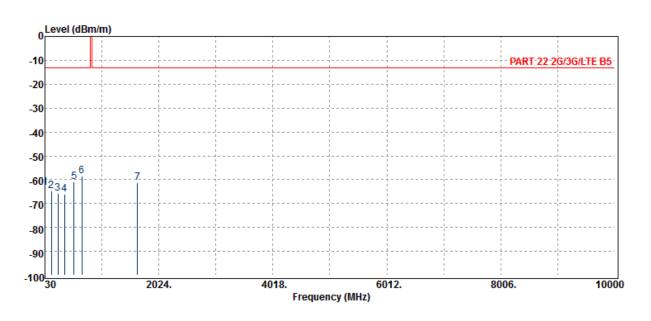
Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:824.2 MHz Engineer :Tin СУ

Operation Mode :Tx CH LOW

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-63.24	-48.08	-14.58	-0.58	-13.00	-50.24
141.55	-64.60	-61.10	-2.22	-1.27	-13.00	-51.60
259.89	-65.70	-67.67	3.67	-1.70	-13.00	-52.70
374.35	-65.99	-67.74	3.78	-2.04	-13.00	-52.99
537.31	-60.85	-62.79	4.00	-2.07	-13.00	-47.85
675.05	-58.39	-59.49	3.75	-2.65	-13.00	-45.39
1648.40	-61.15	-63.78	6.97	-4.35	-13.00	-48.15

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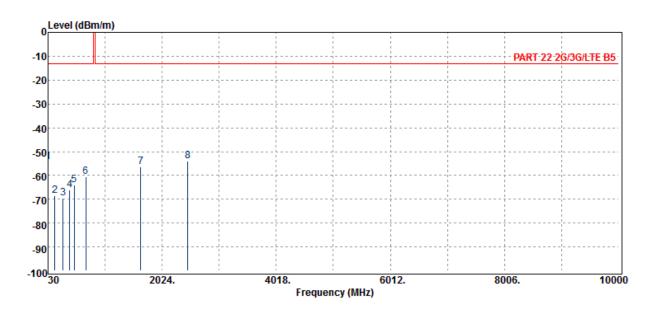
Page 159 of 238

Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:824.2 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-54.41	-39.25	-14.58	-0.58	-13.00	-41.41
146.40	-68.49	-65.22	-1.98	-1.29	-13.00	-55.49
291.90	-69.41	-71.08	3.46	-1.79	-13.00	-56.41
411.21	-66.10	-67.64	3.67	-2.13	-13.00	-53.10
490.75	-63.85	-65.85	3.96	-1.96	-13.00	-50.85
692.51	-60.48	-61.42	3.70	-2.76	-13.00	-47.48
1648.40	-56.40	-59.03	6.97	-4.35	-13.00	-43.40
2472.60	-53.86	-56.70	8.34	-5.49	-13.00	-40.86

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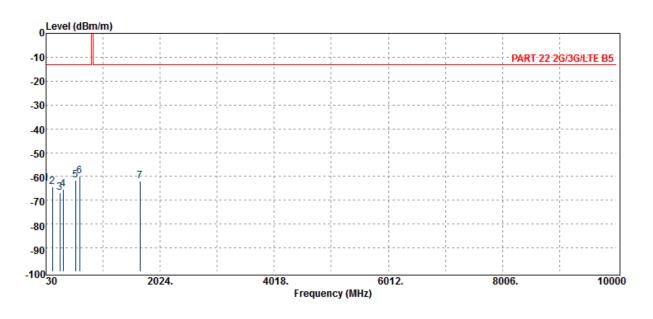
Page 160 of 238

Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:836.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-63.03	-47.87	-14.58	-0.58	-13.00	-50.03
138.64	-64.25	-60.73	-2.26	-1.25	-13.00	-51.25
272.50	-66.81	-68.56	3.48	-1.73	-13.00	-53.81
332.64	-65.49	-67.34	3.78	-1.93	-13.00	-52.49
546.04	-61.47	-63.65	3.99	-1.81	-13.00	-48.47
614.91	-59.85	-61.01	3.63	-2.47	-13.00	-46.85
1673.20	-62.08	-64.74	7.06	-4.39	-13.00	-49.08

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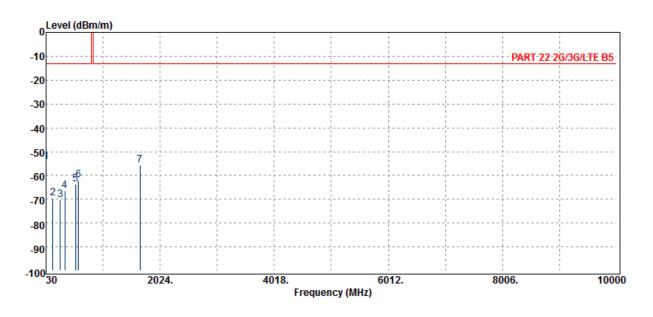
Page 161 of 238

Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:836.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	, dBm	dBd/dBi	dB	dBm	dB
30.00	-54.26	-39.10	-14.58	-0.58	-13.00	-41.26
146.40	-69.57	-66.30	-1.98	-1.29	-13.00	-56.57
280.26	-70.24	-71.91	3.42	-1.75	-13.00	-57.24
354.95	-66.27	-68.07	3.84	-2.04	-13.00	-53.27
548.95	-63.80	-65.81	3.98	-1.97	-13.00	-50.80
599.39	-61.81	-63.19	3.54	-2.17	-13.00	-48.81
1673.20	-55.68	-58.34	7.06	-4.39	-13.00	-42.68

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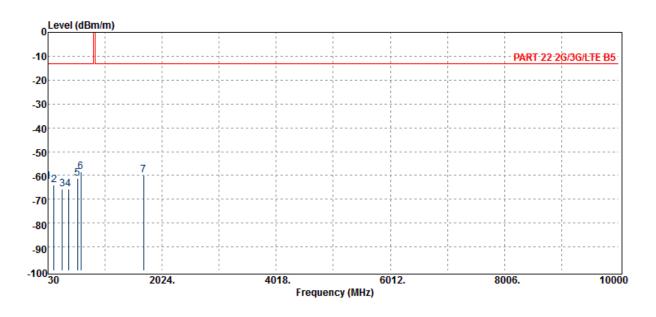
Page 162 of 238

Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:848.8 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-62.52	-47.36	-14.58	-0.58	-13.00	-49.52
134.76	-64.18	-60.82	-2.12	-1.23	-13.00	-51.18
282.20	-65.85	-67.52	3.42	-1.75	-13.00	-52.85
386.96	-65.76	-67.49	3.75	-2.02	-13.00	-52.76
548.95	-61.37	-63.38	3.98	-1.97	-13.00	-48.37
604.24	-58.56	-59.98	3.56	-2.14	-13.00	-45.56
1697.60	-59.90	-62.61	7.14	-4.43	-13.00	-46.90

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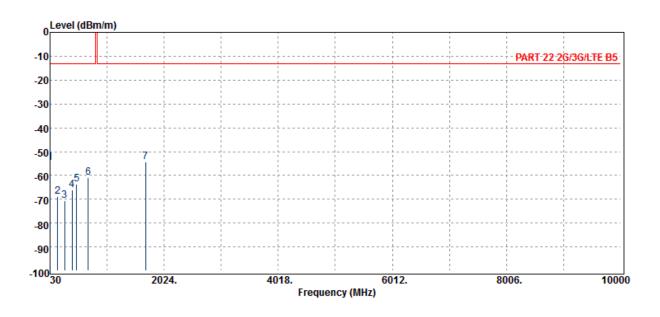
Page 163 of 238

Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:848.8 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-54.54	-39.38	-14.58	-0.58	-13.00	-41.54
160.95	-68.89	-66.40	-1.18	-1.30	-13.00	-55.89
285.11	-70.61	-72.27	3.42	-1.76	-13.00	-57.61
415.09	-66.05	-67.59	3.66	-2.12	-13.00	-53.05
493.66	-63.73	-65.68	3.99	-2.04	-13.00	-50.73
697.36	-61.06	-62.36	3.68	-2.38	-13.00	-48.06
1697.60	-54.31	-57.02	7.14	-4.43	-13.00	-41.31

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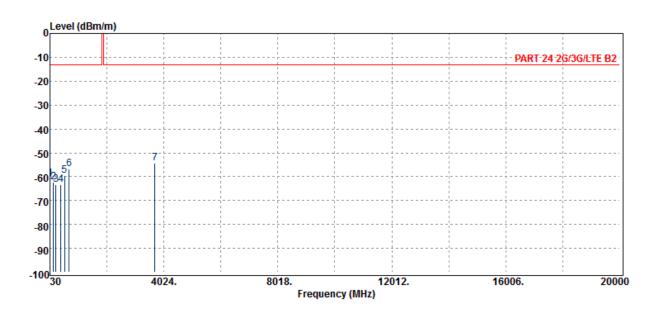
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1850.2 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-60.74	-47.73	-12.43	-0.58	-13.00	-47.74
158.04	-62.19	-61.69	0.80	-1.30	-13.00	-49.19
240.49	-63.24	-67.20	5.63	-1.67	-13.00	-50.24
416.06	-63.20	-66.89	5.81	-2.12	-13.00	-50.20
544.10	-59.35	-63.70	6.14	-1.79	-13.00	-46.35
697.36	-56.83	-60.28	5.83	-2.38	-13.00	-43.83
3700.40	-54.18	-59.83	12.57	-6.91	-13.00	-41.18

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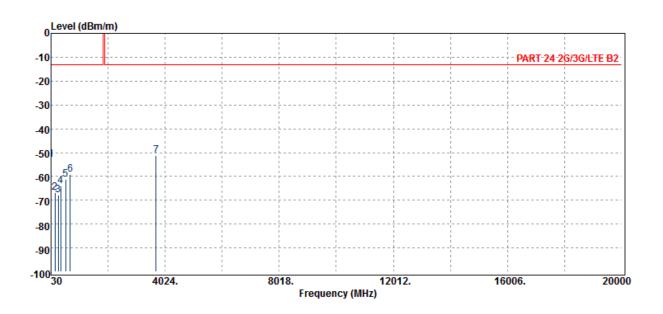
Page 165 of 238

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1850.2 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-52.91	-39.90	-12.43	-0.58	-13.00	-39.91
160.95	-66.70	-66.36	0.97	-1.30	-13.00	-53.70
282.20	-67.79	-71.60	5.57	-1.75	-13.00	-54.79
369.50	-63.87	-67.77	5.95	-2.06	-13.00	-50.87
541.19	-61.34	-65.57	6.14	-1.91	-13.00	-48.34
700.27	-59.16	-62.82	5.82	-2.16	-13.00	-46.16
3700.40	-51.15	-56.80	12.57	-6.91	-13.00	-38.15

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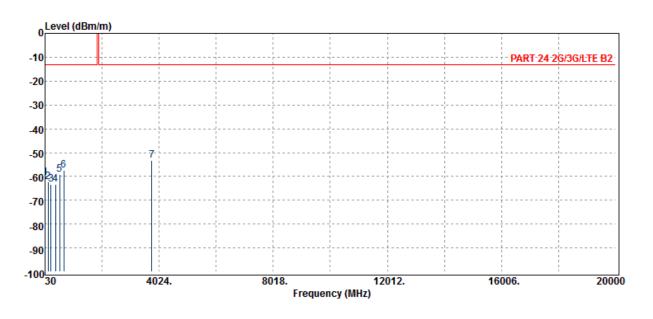
Page 166 of 238

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-60.43	-47.42	-12.43	-0.58	-13.00	-47.43
144.46	-62.40	-61.19	0.07	-1.28	-13.00	-49.40
239.52	-63.29	-67.24	5.62	-1.67	-13.00	-50.29
393.75	-63.33	-67.14	5.88	-2.07	-13.00	-50.33
548.95	-59.14	-63.30	6.13	-1.97	-13.00	-46.14
686.69	-57.58	-60.24	5.87	-3.21	-13.00	-44.58
3760.00	-53.25	-58.98	12.61	-6.89	-13.00	-40.25

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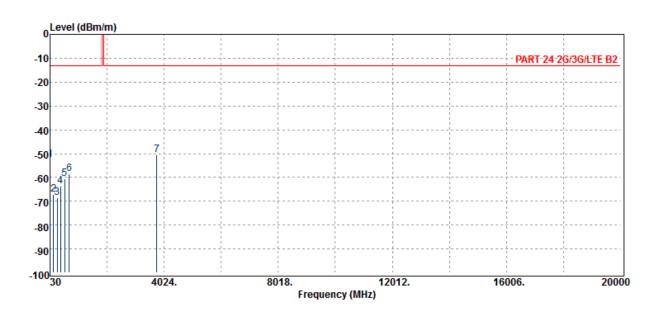
Page 167 of 238

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-52.43	-39.42	-12.43	-0.58	-13.00	-39.43
149.31	-67.01	-66.03	0.31	-1.29	-13.00	-54.01
277.35	-68.35	-72.20	5.59	-1.74	-13.00	-55.35
391.81	-63.57	-67.40	5.89	-2.06	-13.00	-50.57
547.01	-60.56	-64.83	6.13	-1.86	-13.00	-47.56
696.39	-58.59	-61.97	5.84	-2.46	-13.00	-45.59
3760.00	-50.69	-56.42	12.61	-6.89	-13.00	-37.69

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Page 168 of 238

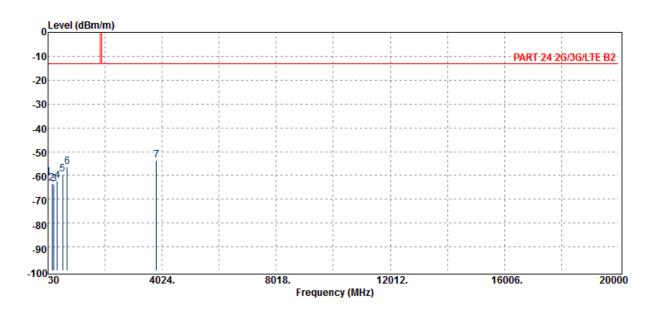
Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1909.8 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane

Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-61.05	-48.04	-12.43	-0.58	-13.00	-48.05
172.59	-63.17	-63.78	1.95	-1.34	-13.00	-50.17
243.40	-63.80	-67.77	5.65	-1.68	-13.00	-50.80
359.80	-62.35	-66.27	5.98	-2.06	-13.00	-49.35
537.31	-59.48	-63.56	6.15	-2.07	-13.00	-46.48
699.30	-56.30	-59.90	5.83	-2.24	-13.00	-43.30
3819.60	-53.73	-59.37	12.66	-7.02	-13.00	-40.73

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Operation Mode

Report No.: ER/2018/90103

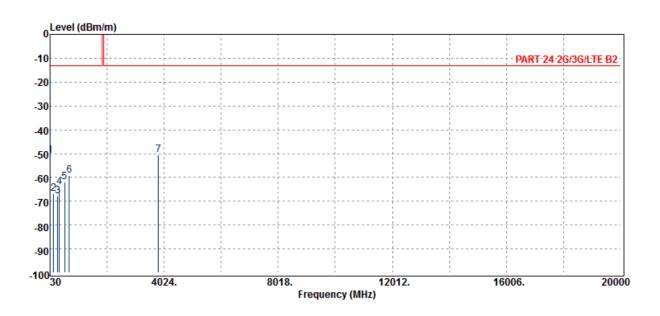
Page 169 of 238

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1909.8 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-50.95	-37.94	-12.43	-0.58	-13.00	-37.95
151.25	-66.81	-65.93	0.42	-1.29	-13.00	-53.81
296.75	-67.91	-71.80	5.70	-1.81	-13.00	-54.91
359.80	-63.93	-67.85	5.98	-2.06	-13.00	-50.93
547.01	-61.87	-66.14	6.13	-1.86	-13.00	-48.87
696.39	-59.30	-62.68	5.84	-2.46	-13.00	-46.30
3819.60	-50.61	-56.25	12.66	-7.02	-13.00	-37.61

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Page 170 of 238

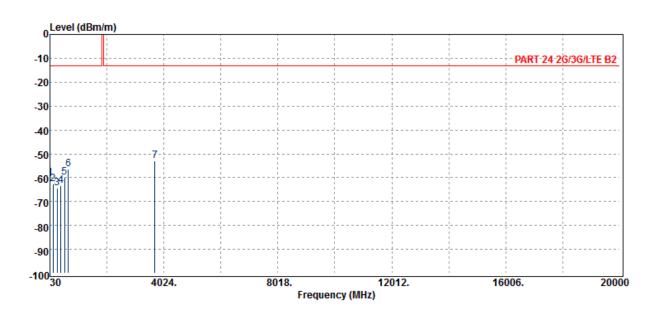
Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Band :WCDMA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1852.4 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-60.11	-47.10	-12.43	-0.58	-13.00	-47.11
139.61	-62.58	-61.18	-0.14	-1.26	-13.00	-49.58
277.35	-64.46	-68.31	5.59	-1.74	-13.00	-51.46
411.21	-63.43	-67.12	5.82	-2.13	-13.00	-50.43
539.25	-59.84	-63.99	6.15	-1.99	-13.00	-46.84
679.90	-56.28	-59.18	5.89	-2.99	-13.00	-43.28
3704.80	-53.07	-58.73	12.57	-6.90	-13.00	-40.07

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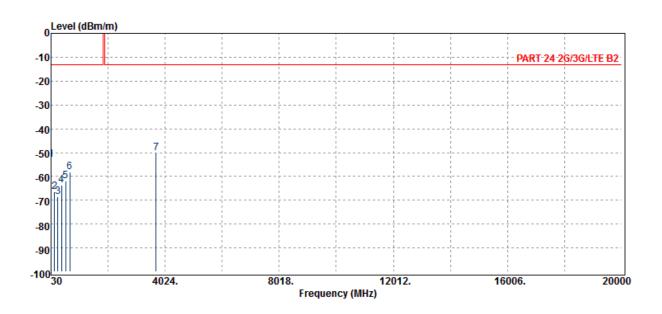
Page 171 of 238

Operation Band :WCDMA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1852.4 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-52.93	-39.92	-12.43	-0.58	-13.00	-39.93
148.34	-66.50	-65.48	0.26	-1.29	-13.00	-53.50
274.44	-68.37	-72.25	5.61	-1.73	-13.00	-55.37
398.60	-63.70	-67.46	5.87	-2.10	-13.00	-50.70
542.16	-61.82	-66.10	6.14	-1.87	-13.00	-48.82
694.45	-58.20	-61.43	5.84	-2.61	-13.00	-45.20
3704.80	-50.23	-55.90	12.57	-6.90	-13.00	-37.23

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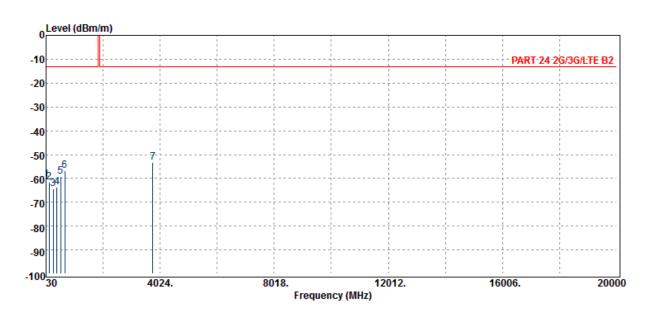
Page 172 of 238

Operation Band :WCDMA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-60.63	-47.62	-12.43	-0.58	-13.00	-47.63
141.55	-61.50	-60.16	-0.07	-1.27	-13.00	-48.50
285.11	-64.47	-68.28	5.57	-1.76	-13.00	-51.47
418.00	-63.58	-67.26	5.80	-2.11	-13.00	-50.58
537.31	-59.06	-63.14	6.15	-2.07	-13.00	-46.06
686.69	-56.84	-59.50	5.87	-3.21	-13.00	-43.84
3760.00	-53.35	-59.08	12.61	-6.89	-13.00	-40.35

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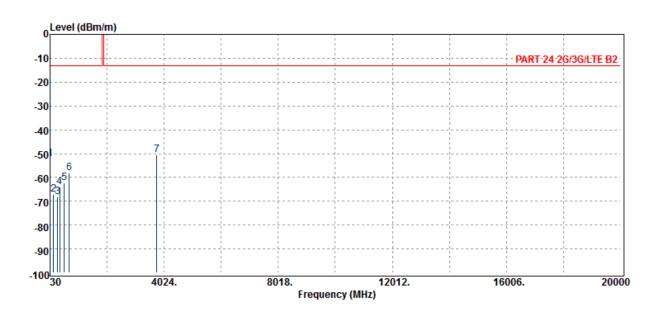
Page 173 of 238

Operation Band :WCDMA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-52.36	-39.35	-12.43	-0.58	-13.00	-39.36
158.04	-66.97	-66.47	0.80	-1.30	-13.00	-53.97
298.69	-68.15	-72.07	5.74	-1.82	-13.00	-55.15
364.65	-63.95	-67.84	5.96	-2.07	-13.00	-50.95
532.46	-62.44	-66.33	6.16	-2.27	-13.00	-49.44
697.36	-58.21	-61.66	5.83	-2.38	-13.00	-45.21
3760.00	-50.59	-56.32	12.61	-6.89	-13.00	-37.59

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Operation Mode

Report No.: ER/2018/90103

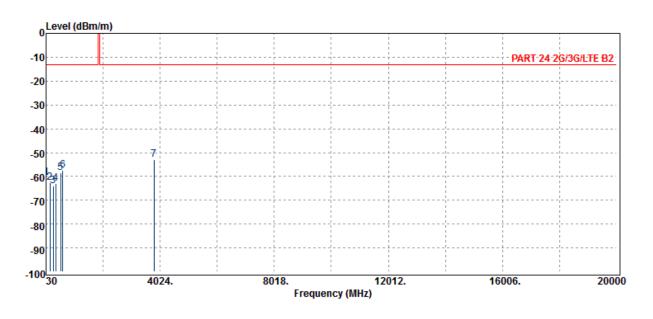
Page 174 of 238

Operation Band :WCDMA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1907.6 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-60.72	-47.72	-12.43	-0.58	-13.00	-47.72
165.80	-62.78	-62.74	1.27	-1.31	-13.00	-49.78
280.26	-63.99	-67.81	5.57	-1.75	-13.00	-50.99
376.29	-63.11	-67.01	5.93	-2.03	-13.00	-50.11
542.16	-58.59	-62.86	6.14	-1.87	-13.00	-45.59
619.76	-57.33	-60.50	5.81	-2.63	-13.00	-44.33
3815.20	-52.78	-58.43	12.66	-7.00	-13.00	-39.78

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Operation Mode

Report No.: ER/2018/90103

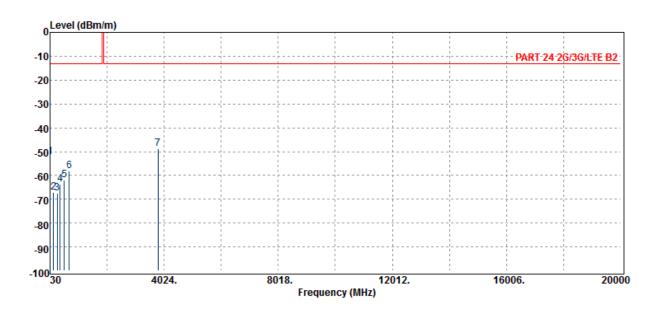
Page 175 of 238

Operation Band :WCDMA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1907.6 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-52.15	-39.14	-12.43	-0.58	-13.00	-39.15
146.40	-67.16	-66.04	0.17	-1.29	-13.00	-54.16
282.20	-67.55	-71.37	5.57	-1.75	-13.00	-54.55
386.96	-63.59	-67.46	5.90	-2.02	-13.00	-50.59
531.49	-61.96	-65.81	6.16	-2.31	-13.00	-48.96
696.39	-58.10	-61.48	5.84	-2.46	-13.00	-45.10
3815.20	-48.85	-54.50	12.66	-7.00	-13.00	-35.85

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Page 176 of 238

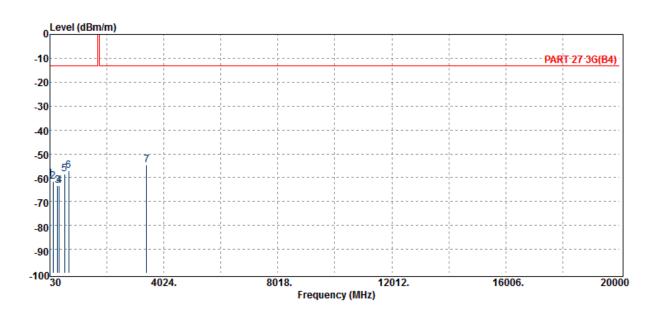
Radiated Spurious Emission Measurement Result: HSDPA Band 4 Mode

Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1712.4 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-60.67	-47.66	-12.43	-0.58	-13.00	-47.67
144.46	-61.70	-60.49	0.07	-1.28	-13.00	-48.70
299.66	-63.47	-67.41	5.76	-1.82	-13.00	-50.47
350.10	-63.28	-67.26	6.00	-2.02	-13.00	-50.28
541.19	-58.36	-62.60	6.14	-1.91	-13.00	-45.36
689.60	-57.07	-59.95	5.86	-2.98	-13.00	-44.07
3424.80	-54.54	-60.23	12.23	-6.54	-13.00	-41.54

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Operation Mode

Report No.: ER/2018/90103

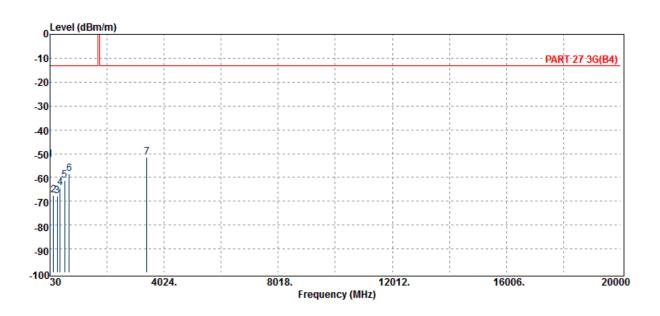
Page 177 of 238

Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1712.4 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-52.60	-39.59	-12.43	-0.58	-13.00	-39.60
153.19	-67.35	-66.58	0.53	-1.30	-13.00	-54.35
284.14	-67.96	-71.77	5.57	-1.76	-13.00	-54.96
377.26	-64.27	-68.17	5.93	-2.03	-13.00	-51.27
542.16	-61.34	-65.61	6.14	-1.87	-13.00	-48.34
696.39	-58.49	-61.86	5.84	-2.46	-13.00	-45.49
3424.80	-51.70	-57.39	12.23	-6.54	-13.00	-38.70

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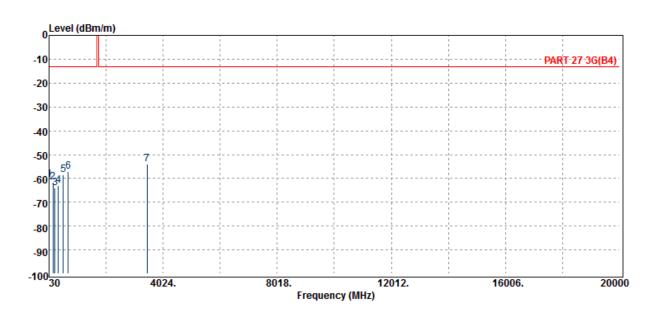
Page 178 of 238

Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1732.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-60.54	-47.53	-12.43	-0.58	-13.00	-47.54
160.95	-61.44	-61.10	0.97	-1.30	-13.00	-48.44
241.46	-64.11	-68.07	5.64	-1.68	-13.00	-51.11
357.86	-62.88	-66.81	5.98	-2.05	-13.00	-49.88
532.46	-58.45	-62.34	6.16	-2.27	-13.00	-45.45
699.30	-57.14	-60.73	5.83	-2.24	-13.00	-44.14
3465.20	-53.86	-59.62	12.32	-6.56	-13.00	-40.86

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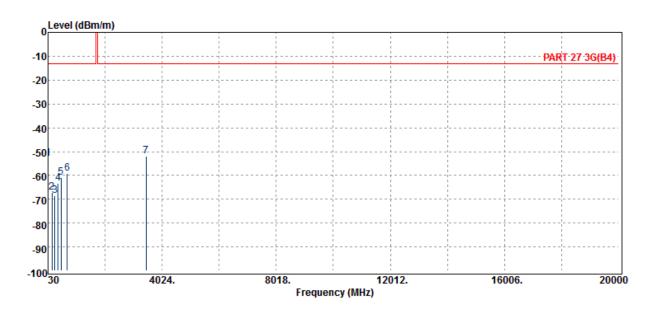
Page 179 of 238

Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1732.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-53.01	-40.00	-12.43	-0.58	-13.00	-40.01
163.86	-66.96	-66.81	1.15	-1.31	-13.00	-53.96
274.44	-68.39	-72.27	5.61	-1.73	-13.00	-55.39
388.90	-63.27	-67.13	5.89	-2.04	-13.00	-50.27
487.84	-60.74	-64.93	6.08	-1.89	-13.00	-47.74
696.39	-59.01	-62.38	5.84	-2.46	-13.00	-46.01
3465.20	-51.75	-57.51	12.32	-6.56	-13.00	-38.75

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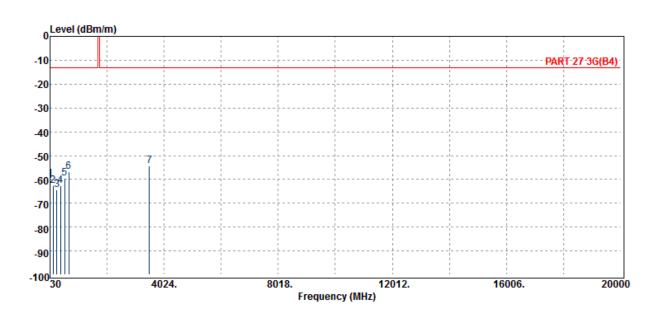


Page 180 of 238

Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1752.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode** Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-59.78	-46.77	-12.43	-0.58	-13.00	-46.78
143.49	-62.58	-61.32	0.02	-1.28	-13.00	-49.58
270.56	-64.24	-68.17	5.65	-1.72	-13.00	-51.24
401.51	-62.48	-66.21	5.86	-2.13	-13.00	-49.48
547.01	-59.55	-63.82	6.13	-1.86	-13.00	-46.55
689.60	-56.83	-59.71	5.86	-2.98	-13.00	-43.83
3505.20	-54.33	-60.07	12.40	-6.66	-13.00	-41.33

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Operation Mode

Report No.: ER/2018/90103

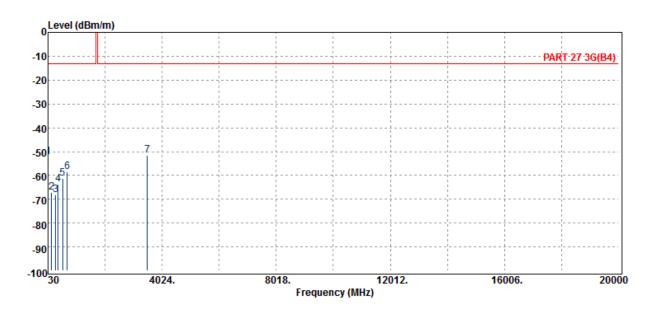
Page 181 of 238

Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1752.6 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-52.33	-39.32	-12.43	-0.58	-13.00	-39.33
158.04	-67.15	-66.65	0.80	-1.30	-13.00	-54.15
293.84	-68.34	-72.19	5.65	-1.80	-13.00	-55.34
381.14	-63.81	-67.70	5.92	-2.02	-13.00	-50.81
544.10	-61.11	-65.46	6.14	-1.79	-13.00	-48.11
696.39	-58.56	-61.94	5.84	-2.46	-13.00	-45.56
3505.20	-51.48	-57.22	12.40	-6.66	-13.00	-38.48

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Page 182 of 238

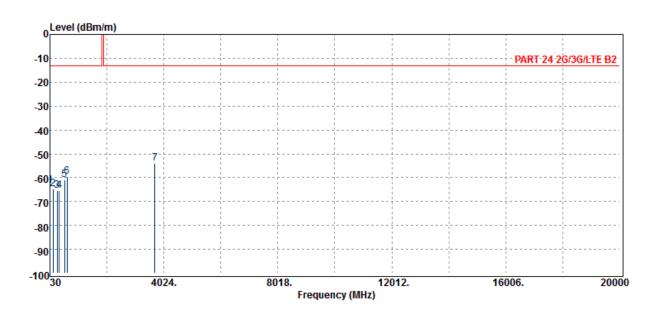
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band Temp./Humi. :LTE B2 :24.1 deg_C / 65 RH

Fundamental Frequen-:1860 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-63.32	-48.16	-14.58	-0.58	-13.00	-50.32
133.79	-64.66	-61.35	-2.09	-1.23	-13.00	-51.66
284.14	-65.56	-67.22	3.42	-1.76	-13.00	-52.56
361.74	-65.23	-66.99	3.82	-2.06	-13.00	-52.23
547.01	-60.80	-62.92	3.98	-1.86	-13.00	-47.80
628.49	-59.36	-60.34	3.71	-2.73	-13.00	-46.36
3705.00	-54.01	-59.67	12.57	-6.90	-13.00	-41.01

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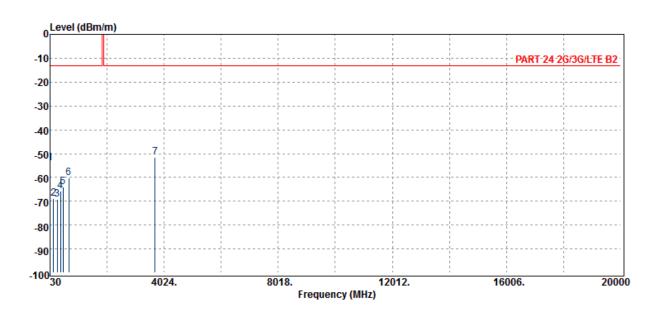
Page 183 of 238

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1860 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-53.93	-38.77	-14.58	-0.58	-13.00	-40.93
153.19	-68.72	-65.80	-1.62	-1.30	-13.00	-55.72
282.20	-69.31	-70.98	3.42	-1.75	-13.00	-56.31
395.69	-65.87	-67.51	3.73	-2.08	-13.00	-52.87
490.75	-63.90	-65.90	3.96	-1.96	-13.00	-50.90
694.45	-60.34	-61.43	3.69	-2.61	-13.00	-47.34
3705.00	-51.68	-57.35	12.57	-6.90	-13.00	-38.68

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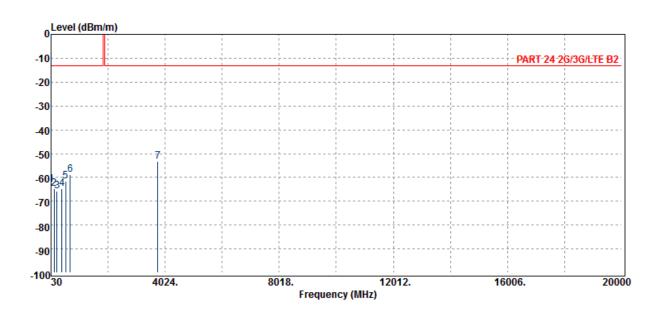
Page 184 of 238

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

:Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-62.87	-47.71	-14.58	-0.58	-13.00	-49.87
139.61	-64.64	-61.09	-2.29	-1.26	-13.00	-51.64
240.49	-65.74	-67.55	3.48	-1.67	-13.00	-52.74
416.06	-64.75	-66.29	3.66	-2.12	-13.00	-51.75
541.19	-61.65	-63.74	3.99	-1.91	-13.00	-48.65
696.39	-58.70	-59.93	3.69	-2.46	-13.00	-45.70
3760.00	-53.33	-59.06	12.61	-6.89	-13.00	-40.33

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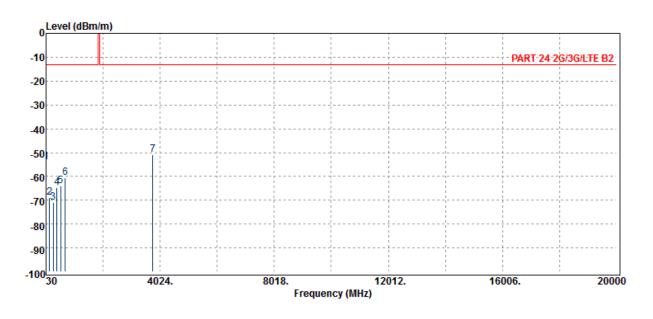
Page 185 of 238

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-53.88	-38.72	-14.58	-0.58	-13.00	-40.88
146.40	-68.84	-65.57	-1.98	-1.29	-13.00	-55.84
289.96	-70.78	-72.42	3.42	-1.78	-13.00	-57.78
411.21	-64.55	-66.09	3.67	-2.13	-13.00	-51.55
547.01	-64.12	-66.24	3.98	-1.86	-13.00	-51.12
700.27	-60.66	-62.18	3.67	-2.16	-13.00	-47.66
3760.00	-51.00	-56.73	12.61	-6.89	-13.00	-38.00

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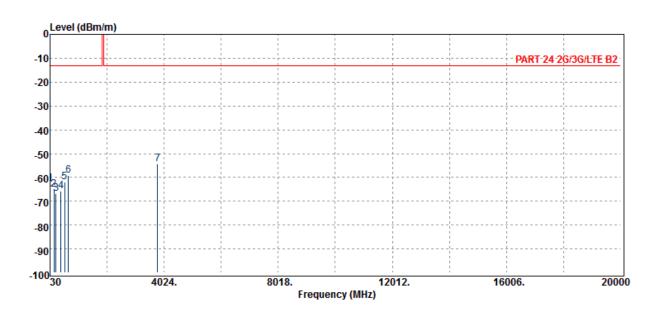
Page 186 of 238

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1900 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-62.53	-47.38	-14.58	-0.58	-13.00	-49.53
173.56	-64.89	-63.50	-0.04	-1.35	-13.00	-51.89
245.34	-66.86	-68.68	3.51	-1.69	-13.00	-53.86
413.15	-65.81	-67.35	3.67	-2.13	-13.00	-52.81
546.04	-61.79	-63.97	3.99	-1.81	-13.00	-48.79
673.11	-59.27	-60.51	3.76	-2.52	-13.00	-46.27
3800.00	-54.18	-59.86	12.65	-6.96	-13.00	-41.18

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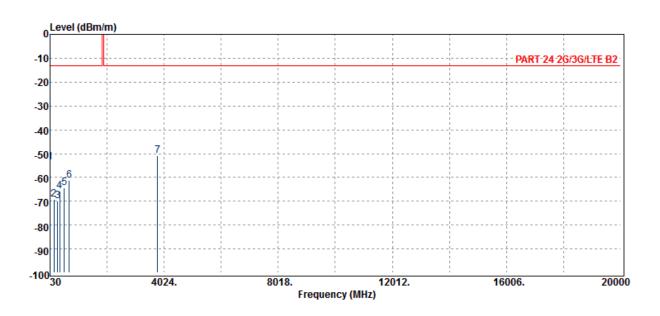
Page 187 of 238

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1900 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-53.66	-38.50	-14.58	-0.58	-13.00	-40.66
165.80	-69.22	-67.03	-0.88	-1.31	-13.00	-56.22
293.84	-69.75	-71.45	3.50	-1.80	-13.00	-56.75
364.65	-65.92	-67.66	3.81	-2.07	-13.00	-52.92
529.55	-64.23	-65.85	4.01	-2.39	-13.00	-51.23
696.39	-61.22	-62.45	3.69	-2.46	-13.00	-48.22
3800.00	-50.85	-56.54	12.65	-6.96	-13.00	-37.85

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Page 188 of 238

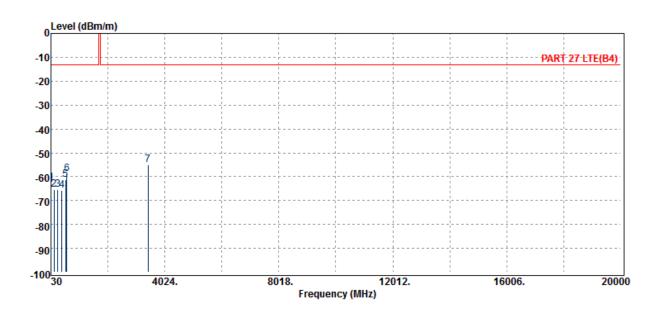
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band Temp./Humi. :LTE B4 :24.1 deg_C / 65 RH

Fundamental Frequen-:1717.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-62.48	-47.32	-14.58	-0.58	-13.00	-49.48
144.46	-65.29	-61.93	-2.08	-1.28	-13.00	-52.29
265.71	-65.41	-67.27	3.57	-1.71	-13.00	-52.41
408.30	-65.76	-67.30	3.68	-2.14	-13.00	-52.76
548.95	-61.14	-63.15	3.98	-1.97	-13.00	-48.14
579.99	-58.69	-60.01	3.71	-2.39	-13.00	-45.69
3435.00	-55.06	-60.77	12.25	-6.55	-13.00	-42.06

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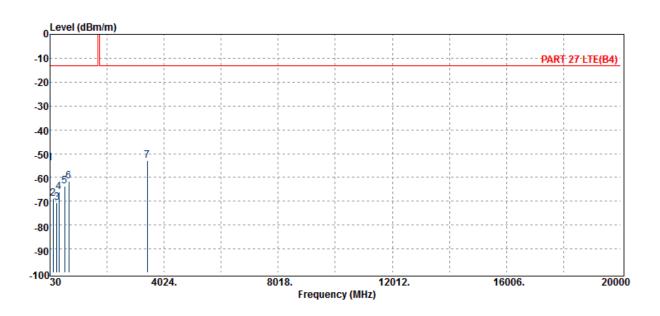
Page 189 of 238

Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1717.5 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-53.94	-38.78	-14.58	-0.58	-13.00	-40.94
139.61	-69.03	-65.48	-2.29	-1.26	-13.00	-56.03
274.44	-70.75	-72.48	3.46	-1.73	-13.00	-57.75
340.40	-66.18	-68.01	3.81	-1.98	-13.00	-53.18
546.04	-63.69	-65.87	3.99	-1.81	-13.00	-50.69
689.60	-61.56	-62.28	3.71	-2.98	-13.00	-48.56
3435.00	-52.78	-58.49	12.25	-6.55	-13.00	-39.78

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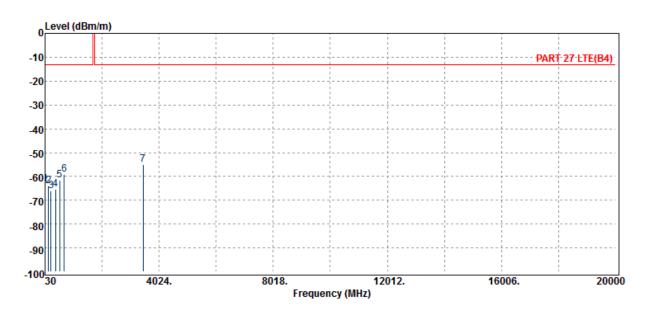
Page 190 of 238

Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1732.5 MHz :Tin Engineer

:Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-63.26	-48.11	-14.58	-0.58	-13.00	-50.26
156.10	-64.02	-61.26	-1.46	-1.30	-13.00	-51.02
239.52	-66.18	-67.99	3.47	-1.67	-13.00	-53.18
403.45	-65.56	-67.12	3.70	-2.14	-13.00	-52.56
542.16	-61.70	-63.82	3.99	-1.87	-13.00	-48.70
696.39	-59.23	-60.46	3.69	-2.46	-13.00	-46.23
3465.00	-55.16	-60.92	12.32	-6.56	-13.00	-42.16

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Page 191 of 238

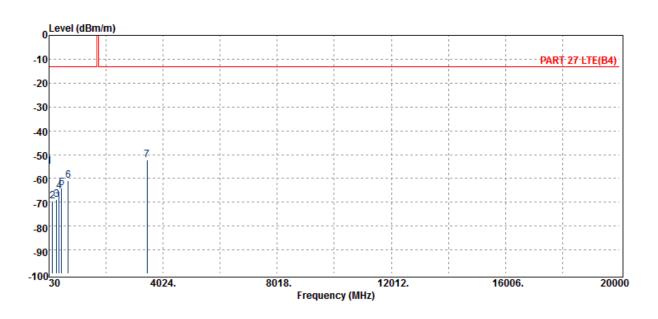
Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1732.5 MHz :Tin

Engineer

:Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
31.94	-55.08	-40.40	-14.08	-0.59	-13.00	-42.08
159.01	-69.40	-66.80	-1.30	-1.30	-13.00	-56.40
296.75	-68.71	-70.45	3.55	-1.81	-13.00	-55.71
384.05	-65.43	-67.18	3.76	-2.01	-13.00	-52.43
473.29	-64.18	-65.70	3.78	-2.26	-13.00	-51.18
699.30	-60.90	-62.35	3.68	-2.24	-13.00	-47.90
3465.00	-52.21	-57.97	12.32	-6.56	-13.00	-39.21

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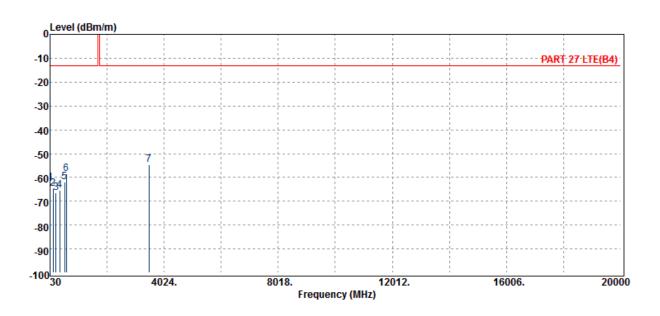
Page 192 of 238

Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1747.5 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-62.31	-47.15	-14.58	-0.58	-13.00	-49.31
144.46	-64.78	-61.42	-2.08	-1.28	-13.00	-51.78
239.52	-66.40	-68.20	3.47	-1.67	-13.00	-53.40
367.56	-65.23	-66.97	3.80	-2.06	-13.00	-52.23
546.04	-61.99	-64.16	3.99	-1.81	-13.00	-48.99
607.15	-58.31	-59.68	3.58	-2.21	-13.00	-45.31
3495.00	-54.75	-60.53	12.39	-6.61	-13.00	-41.75

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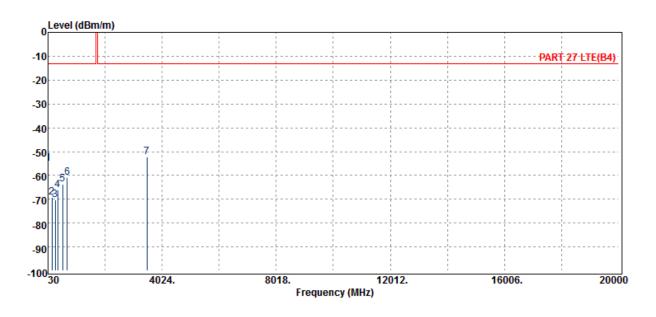
Page 193 of 238

Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1747.5 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-54.92	-39.76	-14.58	-0.58	-13.00	-41.92
167.74	-69.10	-67.02	-0.76	-1.32	-13.00	-56.10
280.26	-70.18	-71.85	3.42	-1.75	-13.00	-57.18
366.59	-66.19	-67.93	3.81	-2.07	-13.00	-53.19
539.25	-63.77	-65.78	4.00	-1.99	-13.00	-50.77
697.36	-60.94	-62.24	3.68	-2.38	-13.00	-47.94
3495.00	-52.14	-57.93	12.39	-6.61	-13.00	-39.14

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Page 194 of 238

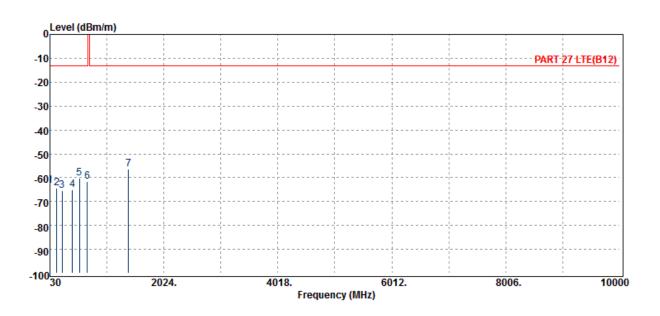
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band Temp./Humi. :LTE B12 :24.1 deg_C / 65 RH

Fundamental Frequen-:701.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-63.23	-48.07	-14.58	-0.58	-13.00	-50.23
146.40	-64.42	-61.15	-1.98	-1.29	-13.00	-51.42
245.34	-65.46	-67.27	3.51	-1.69	-13.00	-52.46
419.94	-65.18	-66.71	3.64	-2.11	-13.00	-52.18
546.04	-60.28	-62.45	3.99	-1.81	-13.00	-47.28
684.75	-61.57	-61.97	3.72	-3.32	-13.00	-48.57
1403.00	-56.28	-60.50	8.20	-3.99	-13.00	-43.28

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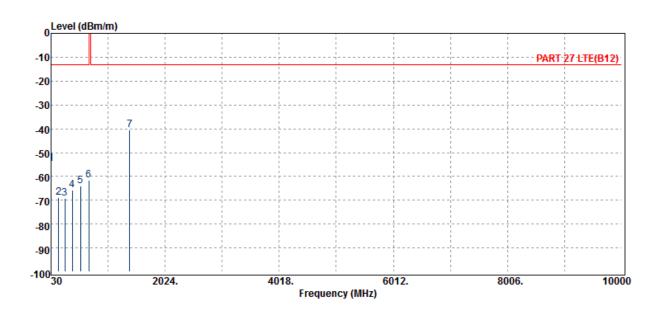
Page 195 of 238

Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:701.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-54.57	-39.41	-14.58	-0.58	-13.00	-41.57
160.95	-68.84	-66.36	-1.18	-1.30	-13.00	-55.84
272.50	-69.28	-71.03	3.48	-1.73	-13.00	-56.28
401.51	-65.66	-67.24	3.71	-2.13	-13.00	-52.66
548.95	-63.85	-65.86	3.98	-1.97	-13.00	-50.85
691.54	-61.62	-62.48	3.70	-2.83	-13.00	-48.62
1403.00	-40.57	-44.78	8.20	-3.99	-13.00	-27.57

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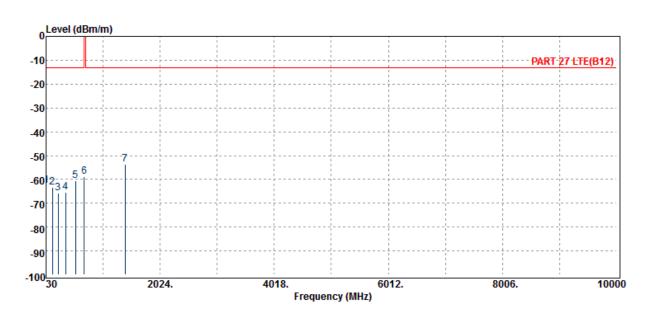
Page 196 of 238

Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:707.5 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-62.67	-47.51	-14.58	-0.58	-13.00	-49.67
138.64	-63.25	-59.74	-2.26	-1.25	-13.00	-50.25
241.46	-65.79	-67.60	3.49	-1.68	-13.00	-52.79
371.44	-65.40	-67.14	3.79	-2.05	-13.00	-52.40
544.10	-60.50	-62.70	3.99	-1.79	-13.00	-47.50
696.39	-58.85	-60.08	3.69	-2.46	-13.00	-45.85
1415.00	-53.54	-57.79	8.25	-4.01	-13.00	-40.54

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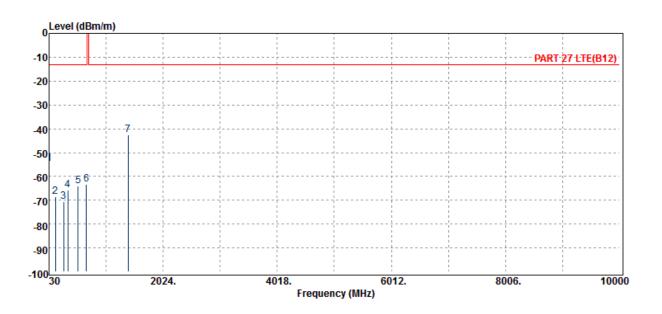
Page 197 of 238

Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:707.5 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-54.56	-39.40	-14.58	-0.58	-13.00	-41.56
141.55	-68.63	-65.13	-2.22	-1.27	-13.00	-55.63
284.14	-70.52	-72.18	3.42	-1.76	-13.00	-57.52
356.89	-65.63	-67.42	3.83	-2.05	-13.00	-52.63
541.19	-64.01	-66.10	3.99	-1.91	-13.00	-51.01
685.72	-63.27	-63.70	3.72	-3.29	-13.00	-50.27
1415.00	-42.40	-46.65	8.25	-4.01	-13.00	-29.40

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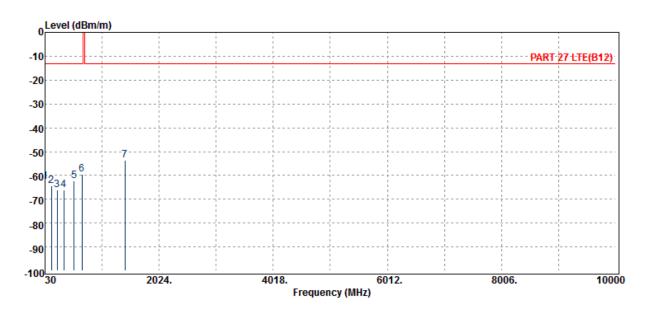
Page 198 of 238

Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	, dBm	dBd/dBi	dB	dBm	dB
30.00	-62.62	-47.46	-14.58	-0.58	-13.00	-49.62
141.55	-64.45	-60.95	-2.22	-1.27	-13.00	-51.45
239.52	-66.06	-67.86	3.47	-1.67	-13.00	-53.06
357.86	-66.01	-67.79	3.83	-2.05	-13.00	-53.01
542.16	-62.21	-64.33	3.99	-1.87	-13.00	-49.21
673.11	-59.67	-60.92	3.76	-2.52	-13.00	-46.67
1427.00	-53.73	-58.01	8.30	-4.03	-13.00	-40.73

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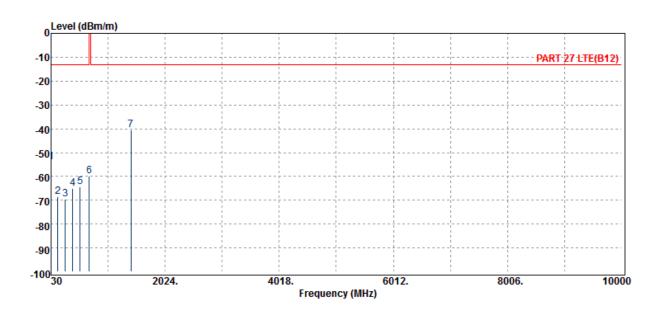
Page 199 of 238

Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-54.02	-38.86	-14.58	-0.58	-13.00	-41.02
146.40	-68.67	-65.40	-1.98	-1.29	-13.00	-55.67
282.20	-69.42	-71.09	3.42	-1.75	-13.00	-56.42
406.36	-65.00	-66.55	3.69	-2.15	-13.00	-52.00
542.16	-64.31	-66.43	3.99	-1.87	-13.00	-51.31
696.39	-59.99	-61.22	3.69	-2.46	-13.00	-46.99
1427.00	-40.60	-44.87	8.30	-4.03	-13.00	-27.60

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Page 200 of 238

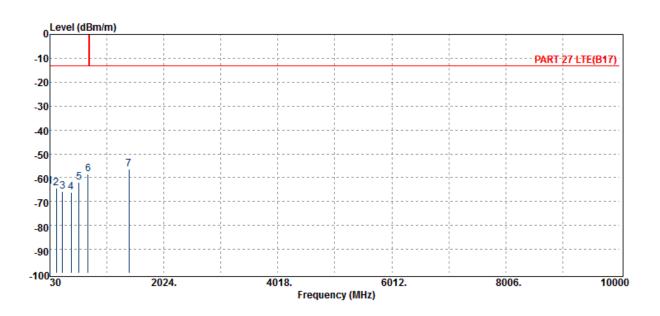
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band Temp./Humi. :LTE B17 :24.1 deg_C / 65 RH

Fundamental Frequen-:706.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-63.74	-48.58	-14.58	-0.58	-13.00	-50.74
141.55	-64.35	-60.86	-2.22	-1.27	-13.00	-51.35
253.10	-65.68	-67.56	3.58	-1.70	-13.00	-52.68
398.60	-66.02	-67.64	3.72	-2.10	-13.00	-53.02
537.31	-62.00	-63.93	4.00	-2.07	-13.00	-49.00
699.30	-58.65	-60.09	3.68	-2.24	-13.00	-45.65
1413.00	-56.51	-60.75	8.25	-4.00	-13.00	-43.51

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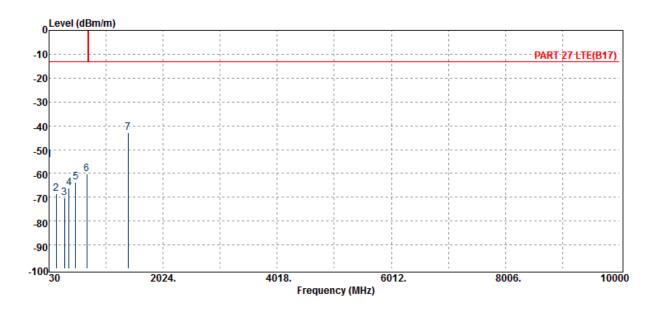
Page 201 of 238

Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:706.5 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-54.38	-39.22	-14.58	-0.58	-13.00	-41.38
159.01	-68.60	-66.00	-1.30	-1.30	-13.00	-55.60
299.66	-70.41	-72.20	3.61	-1.82	-13.00	-57.41
376.29	-66.24	-67.98	3.78	-2.03	-13.00	-53.24
498.51	-63.76	-65.64	4.04	-2.16	-13.00	-50.76
692.51	-60.17	-61.11	3.70	-2.76	-13.00	-47.17
1413.00	-42.84	-47.08	8.25	-4.00	-13.00	-29.84

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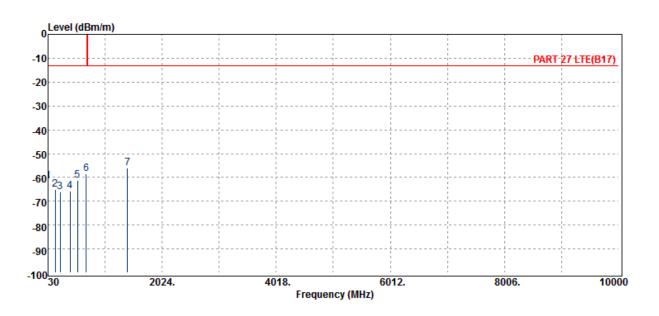
Page 202 of 238

Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:710 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-61.71	-46.55	-14.58	-0.58	-13.00	-48.71
156.10	-65.03	-62.28	-1.46	-1.30	-13.00	-52.03
239.52	-66.13	-67.93	3.47	-1.67	-13.00	-53.13
415.09	-65.70	-67.24	3.66	-2.12	-13.00	-52.70
544.10	-61.08	-63.28	3.99	-1.79	-13.00	-48.08
694.45	-58.59	-59.67	3.69	-2.61	-13.00	-45.59
1420.00	-55.93	-60.20	8.28	-4.01	-13.00	-42.93

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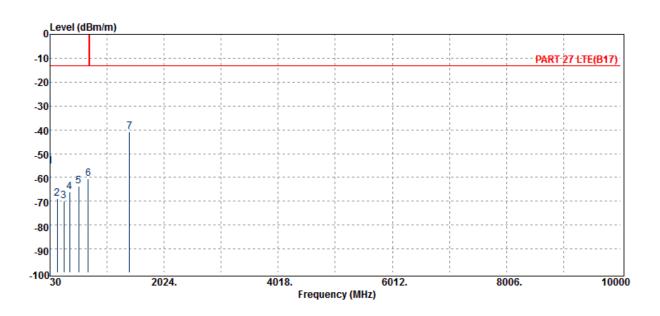
Page 203 of 238

Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:710 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-55.32	-40.16	-14.58	-0.58	-13.00	-42.32
154.16	-68.87	-66.01	-1.57	-1.30	-13.00	-55.87
269.59	-69.86	-71.65	3.51	-1.72	-13.00	-56.86
374.35	-65.93	-67.67	3.78	-2.04	-13.00	-52.93
532.46	-63.67	-65.41	4.01	-2.27	-13.00	-50.67
697.36	-60.48	-61.78	3.68	-2.38	-13.00	-47.48
1420.00	-40.76	-45.02	8.28	-4.01	-13.00	-27.76

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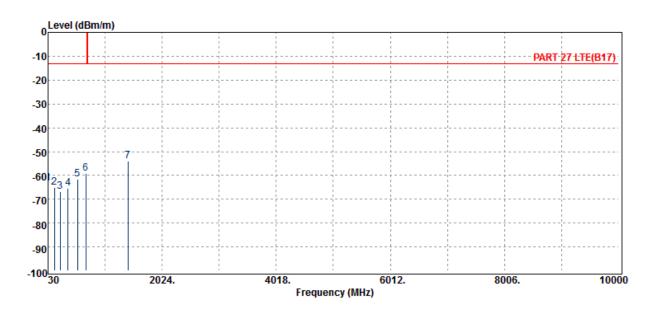
Page 204 of 238

Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-63.42	-48.26	-14.58	-0.58	-13.00	-50.42
138.64	-65.06	-61.55	-2.26	-1.25	-13.00	-52.06
245.34	-66.76	-68.58	3.51	-1.69	-13.00	-53.76
381.14	-65.35	-67.10	3.77	-2.02	-13.00	-52.35
544.10	-61.50	-63.69	3.99	-1.79	-13.00	-48.50
691.54	-59.27	-60.14	3.70	-2.83	-13.00	-46.27
1427.00	-53.82	-58.09	8.30	-4.03	-13.00	-40.82

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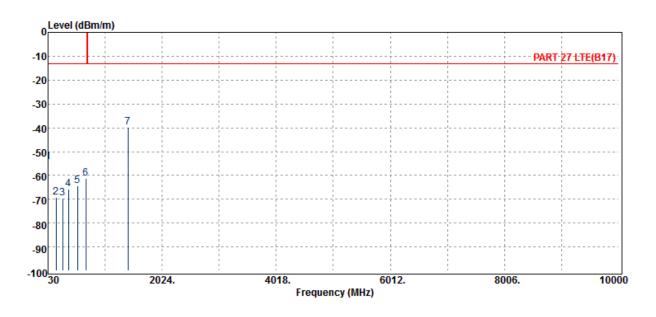
Page 205 of 238

Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-54.40	-39.24	-14.58	-0.58	-13.00	-41.40
167.74	-69.07	-66.99	-0.76	-1.32	-13.00	-56.07
285.11	-69.59	-71.25	3.42	-1.76	-13.00	-56.59
388.90	-65.90	-67.60	3.74	-2.04	-13.00	-52.90
544.10	-64.46	-66.66	3.99	-1.79	-13.00	-51.46
691.54	-61.12	-61.98	3.70	-2.83	-13.00	-48.12
1427.00	-39.67	-43.95	8.30	-4.03	-13.00	-26.67

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Page 206 of 238

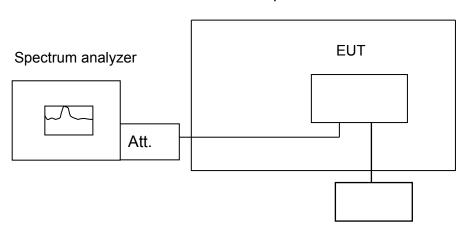
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable

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







Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

11.3. 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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Page 207 of 238

11.4. Measurement Equipment Used

- modean official Equipment occur							
EQUIPMENT TYPE	MFR	MODEL NUM- BER	SERIAL NUM- BER	LAST CAL.	CAL DUE.		
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	2018/02/14	2019/02/13		
Radio Communi- cation Analyer	Anritsu	MT8820C	6200995019	2018/04/05	2019/04/04		
DC Power Supply	Anritsu	E3640A	MY40000811	2017/12/18	2018/12/17		
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01		
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01		
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/01/01		
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01		

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Page 208 of 238

11.5. Measurement Result

FREQUENCY ERROR vs. VOLTAGE

	REGULTOT ERROR 13. TOLIAGE							
Reference Frequency: GPRS 850 Mid Channel 836.6 MHz								
Limit: +/- 2.5 ppm								
Power Supply	Environment	Frequency						
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)				
4.43	20	836.59991	-90	2091				
3.85	20	836.60048	479.9999999	2091				
3.27	20	836.60019	190	2091				
3 (End point)	20	836.60009	90	2091				

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature $(^{\circ}\mathbb{C})$	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	50	836.60023	230	2091		
3.85	40	836.60016	159.9999999	2091		
3.85	30	836.6	0	2091		
3.85	20	836.60048	479.9999999	2091		
3.85	10	836.60027	270	2091		
3.85	0	836.60032	320	2091		
3.85	-10	836.60006	59.99999996	2091		
3.85	-20	836.59997	-30.0000004	2091		
3.85	-30	836.60007	69.99999994	2091		

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Page 209 of 238

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency				
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	20	1879.99995	-50.0000001	4700		
3.85	20	1880.00004	39.9999999	4700		
3.27	20	1880.0001	99.9999997	4700		
3 (End point)	20	1879.9999	-99.99999997	4700		

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
	Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Dolta (Hz)	limit (∐z)		
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	50	1880.0001	99.9999997	4700		
3.85	40	1880.00008	80.0000003	4700		
3.85	30	1880.00004	39.9999999	4700		
3.85	20	1880.00004	39.9999999	4700		
3.85	10	1879.99992	-80.00000003	4700		
3.85	0	1879.99994	-60.00000008	4700		
3.85	-10	1880	0	4700		
3.85	-20	1879.99992	-80.00000003	4700		
3.85	-30	1879.99993	-70.00000005	4700		

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Page 210 of 238

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz						
Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency				
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	20	1879.99995	-50.0000001	4700		
3.85	20	1880.00006	60.0000008	4700		
3.27	20	1879.99992	-80.00000003	4700		
3 (End point)	20	1880.00004	39.9999999	4700		

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	50	1880.00004	39.9999999	4700		
3.85	40	1880.00003	29.99999992	4700		
3.85	30	1880	0	4700		
3.85	20	1880.00006	60.00000008	4700		
3.85	10	1880.00008	80.00000003	4700		
3.85	0	1880.00007	70.00000005	4700		
3.85	-10	1880.00006	60.00000008	4700		
3.85	-20	1880.00004	39.9999999	4700		
3.85	-30	1879.99996	-39.9999999	4700		

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Page 211 of 238

FREQUENCY ERROR vs. VOLTAGE

Refe	Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz					
Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency				
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
4.43	20	1732.599949	-50.99999998	4331		
3.85	20	1732.59998	-19.99999995	4331		
3.27	20	1732.599945	-54.99999997	4331		
3 (End point)	20	1732.599977	-22.99999983	4331		

FREQUENCY ERROR vs. TEMPERATURE

Refe	Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz					
		Limit: +/- 2.5 ppm	า			
Power Supply	Environment	Frequency				
Vdc	Temperature (°ℂ)	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	50	1732.599901	-98.99999986	4331		
3.85	40	1732.59995	-49.99999987	4331		
3.85	30	1732.59995	-49.99999987	4331		
3.85	20	1732.59998	-19.99999995	4331		
3.85	10	1732.59992	-79.9999998	4331		
3.85	0	1732.59992	-79.9999998	4331		
3.85	-10	1732.59993	-69.99999982	4331		
3.85	-20	1732.59993	-69.99999982	4331		
3.85	-30	1732.59993	-69.99999982	4331		

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Page 212 of 238

Reference Freq.:	LTE B2 Mid Channel	d	1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°ℂ)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq. E	RROR vs. VO	LTAGE	
4.43	25	1879.999980	-19.99999995	4700
3.85	25	1880.000015	15.00000008	4700
3.27	25	1880.000018	17.99999995	4700
3 (End Point)	25	1879.999995	-5.000000101	4700
	Freq.	ERROR vs. T	emp.	
3.85	-30	1879.999984	-15.99999996	4700
3.85	-20	1880.000002	1.99999995	4700
3.85	-10	1880.000018	17.99999995	4700
3.85	0	1879.999994	-5.999999985	4700
3.85	10	1879.999997	-3.000000106	4700
3.85	20	1880.000014	13.99999996	4700
3.85	30	1880.000008	7.99999998	4700
3.85	40	1879.999991	-9.000000091	4700
3.85	50	1880.000006	5.99999985	4700

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10.200.0.2



Page 213 of 238

Reference Freq.:	LTE B4 Mic Channel	I	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							
4.43 25 1732.499982 -18 4331							
3.85	25	1732.499988	-12	4331			
3.27	25	1732.500011	11	4331			
3 (End Point)	25	1732.500005	5	4331			
	Freq. E	ERROR vs. Ter	np.				
3.85	-30	1732.499994	-6	4331			
3.85	-20	1732.500002	2	4331			
3.85	-10	1732.499997	-3	4331			
3.85	0	1732.499999	-1	4331			
3.85	10	1732.500017	17	4331			
3.85	20	1732.499995	-5	4331			
3.85	30	1732.500006	6	4331			
3.85	40	1732.499991	-9	4331			
3.85	50	1732.499992	-8	4331			

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Page 214 of 238

Reference Freq.:	LTE B12 Mi Channel	d	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						
4.43	25	707.500011	10.99999997	1769		
3.85	25	707.500013	12.99999997	1769		
3.27	25	707.499995	-4.999999987	1769		
3 (End Point)	25	707.499982	-17.99999995	1769		
	Freq.	ERROR vs. T	emp.			
3.85	-30	707.499984	-15.99999996	1769		
3.85	-20	707.499990	-9.999999975	1769		
3.85	-10	707.500017	16.99999996	1769		
3.85	0	707.500008	7.99999998	1769		
3.85	10	707.499994	-5.999999985	1769		
3.85	20	707.500009	8.999999977	1769		
3.85	30	707.499989	-10.99999997	1769		
3.85	40	707.499987	-12.99999997	1769		
3.85	50	707.500019	18.99999995	1769		

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Page 215 of 238

Reference Freq.:	LTE B17 M Channel	id	710	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq. E	RROR vs. VOL	TAGE	
4.43	25	710.000010	10	1775
3.85	25	709.999992	-8	1775
3.27	25	710.000015	15	1775
3 (End Point)	25	710.000017	17	1775
	Freq.	ERROR vs. Te	mp.	
3.85	-30	709.999997	-3	1775
3.85	-20	709.999982	-18	1775
3.85	-10	709.999998	-2	1775
3.85	0	710.000006	6	1775
3.85	10	710.000013	13	1775
3.85	20	710.000005	5	1775
3.85	30	709.999993	-7	1775
3.85	40	710.000002	2	1775
3.85	50	709.999988	-12	1775

Note: The battery is rated 3.85V dc.

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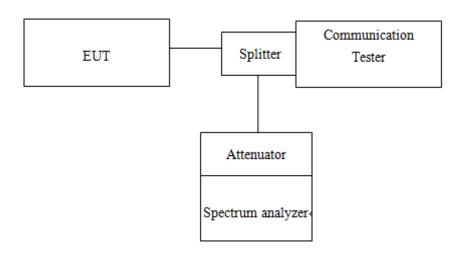
Page 216 of 238

12. **PEAK TO AVERAGE RATIO**

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. Measurement Procedure

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

12.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUM- BER	SERIAL NUM- BER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	2018/02/14	2019/02/13
Radio Commu- nication Analyer	Anritsu	MT8815B	6200711454	2018/04/05	2019/04/04
DC Power Sup- ply	Anritsu	E3640A	MY40000811	2017/12/18	2018/12/17
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/01/01
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01

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Page 217 of 238

12.5. Measurement Result **Tabular Results:**

Freq.	СН	Peak-to-A Ratio	_
(111112)		GSM 850	GPRS 850
824.2	128	9.74	11.55
836.6	190	8.63	10.53
848.8	251	8.66	10.28

Freq.		Peak-to-Average Ratio (dB)		
(MHz)	СН	GSM 1900	GPRS 1900	
1850.2	512	9.98	9.71	
1880	661	10.01	9.82	
1909.8	810	10.17	10.15	

F		Peak-to-Average Ratio (dB)					
Freq. (MHz)	СН	WCDMA II	HSDPA II	HSUPA II			
1852.4	9262	2.96	2.99	3.24			
1880	9400	2.99	3.04	2.99			
1907.6	9538	3.12	3.10	3.14			

F	F		Peak-to-Average Ratio (dB)					
Freq. (MHz)	СН	WCDMA IV	HSDPA IV	HSUPA IV				
1712.4	1312	3.13	3.19	3.21				
1732.6	1413	3.11	3.12	3.15				
1752.6	1513	3.31	3.57	3.28				

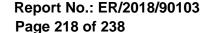
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LTE BAND 2									
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit		
1850.7	18607	6.62	13	1851.5	18615	6.31	13		
1880.0	18900	6.83	13	1880.0	18900	6.68	13		
1909.3	19193	6.38	13	1908.5	19185	6.61	13		

LTE BAND 2									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit		
1852.5	18625	6.53	13	1855.0	18650	6.55	13		
1880.0	18900	6.75	13	1880.0	18900	6.54	13		
1907.5	19175	6.57	13	1905.0	19150	6.52	13		

	LTE BAND 2									
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz						
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit			
1857.5	18675	6.44	13	1860.0	18700	6.82	13			
1880.0	18900	6.36	13	1880.0	18900	6.76	13			
1902.5	19125	6.29	13	1900.0	19100	6.86	13			

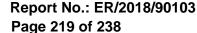
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LTE BAND 4									
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit		
1710.7	19957	6.75	13	1711.5	19965	6.51	13		
1732.5	20175	6.85	13	1732.5	20175	6.63	13		
1754.3	20393	6.70	13	1753.5	20385	6.61	13		

	LTE BAND 4									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz						
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit			
1712.5	19957	6.63	13	1715.0	20000	6.54	13			
1732.5	20175	6.57	13	1732.5	20175	6.07	13			
1752.5	20375	6.70	13	1750.0	20350	6.07	13			

LTE BAND 4									
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit		
1717.5	20025	6.18	13	1720.0	20050	6.74	13		
1732.5	20175	6.17	13	1732.5	20175	6.88	13		
1747.5	20325	6.25	13	1745.0	20300	6.95	13		

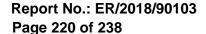
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LTE BAND 12									
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz					
Freq. (MHz)	СН	PAPR (dB)		Freq.	СН	PAPR (dB)			
		64QAM	Limit	(MHz)	СП	64QAM	Limit		
699.7	23017	6.90	13	700.5	23025	6.65	13		
707.5	23095	6.73	13	707.5	23095	6.58	13		
715.3	23173	6.70	13	714.5	23165	6.59	13		

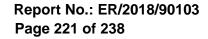
LTE BAND 12									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz					
Freq. (MHz)	СН	PAPR (dB)		Freq.	СН	PAPR (dB)			
		64QAM	Limit	(MHz)	Сп	64QAM	Limit		
701.5	23035	6.44	13	704.0	23060	6.07	13		
707.5	23095	6.48	13	707.5	23095	6.57	13		
713.5	23155	6.54	13	711.0	23130	6.60	13		

LTE BAND 17									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz					
Freq. (MHz)	СН	PAPR (dB)		Freq.	СН	PAPR (dB)			
		64QAM	Limit	(MHz)	СП	64QAM	Limit		
706.5	23755	6.64	13	709.0	23780	6.51	13		
710.0	23790	6.57	13	710.0	23790	6.60	13		
713.5	23825	6.54	13	711.0	23800	6.49	13		

Measurement Results:

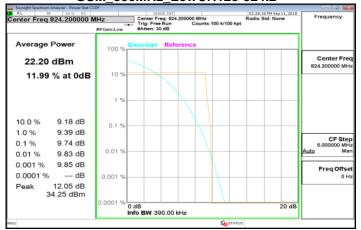
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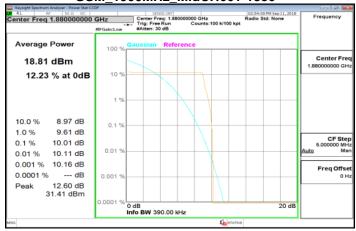
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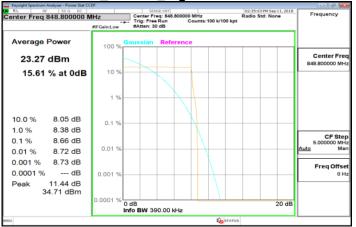
GSM 850MHz MidCH190-836.6



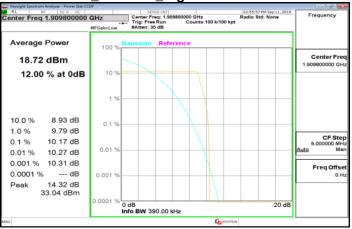
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GSM_850MHz_HighCH251-848.8

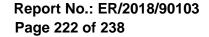


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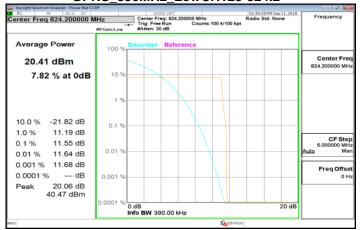
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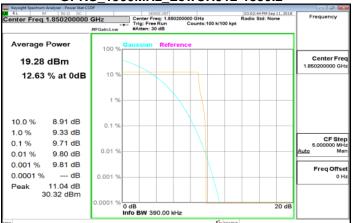




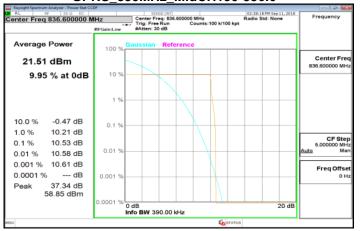
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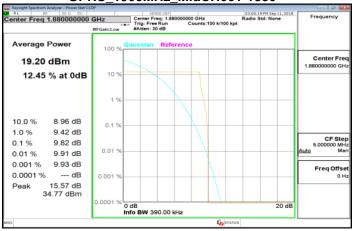
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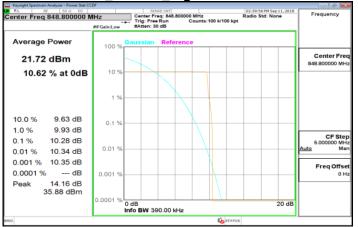
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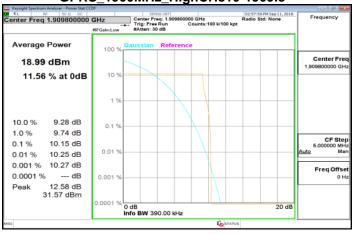
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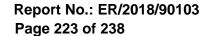


GPRS_1900MHz_HighCH810-1909.8



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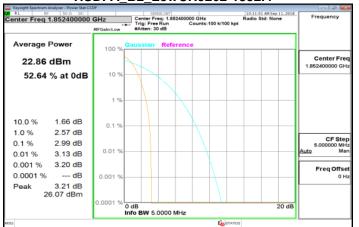




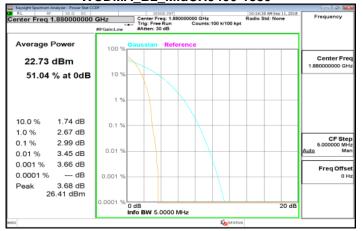
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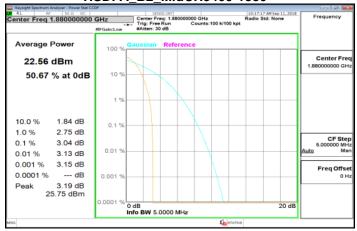
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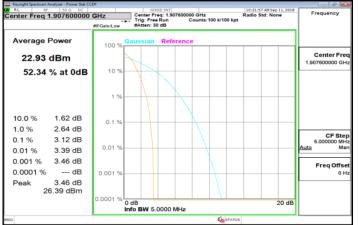
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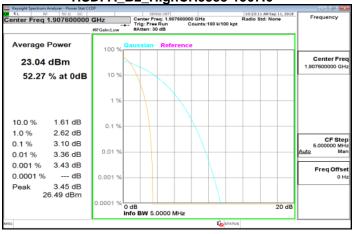
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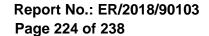


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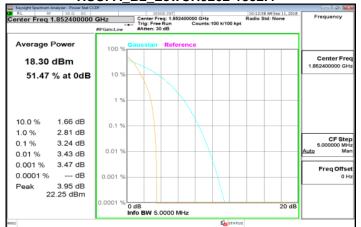
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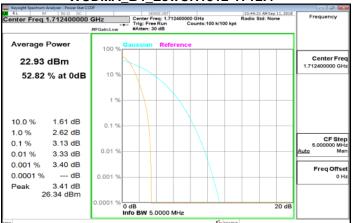




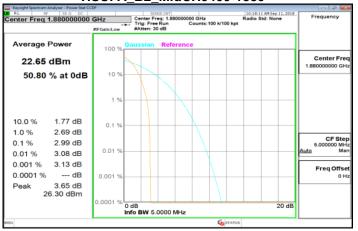
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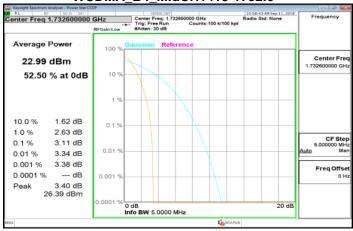
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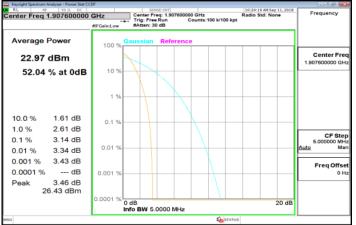
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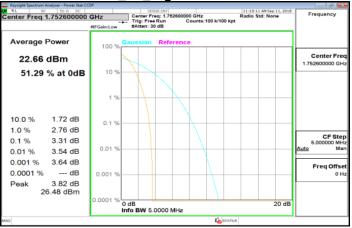
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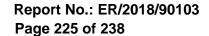
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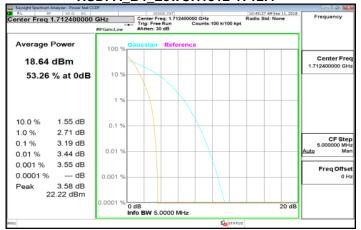
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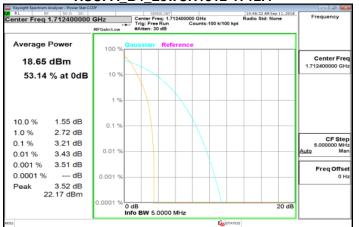




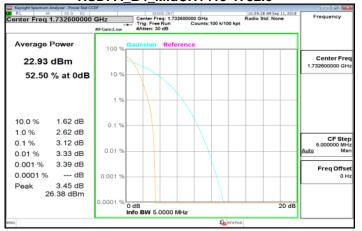
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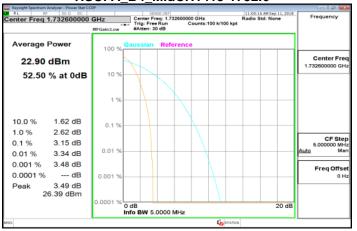
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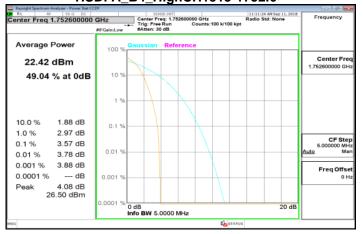
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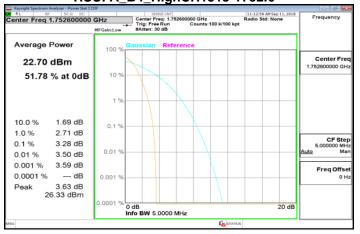
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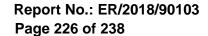
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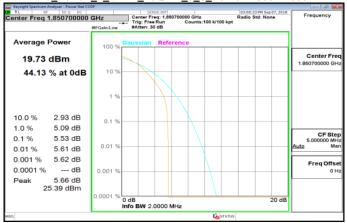
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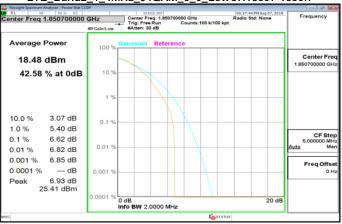




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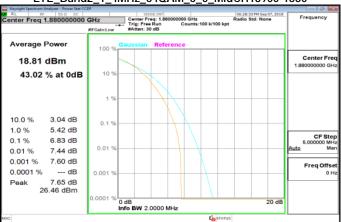
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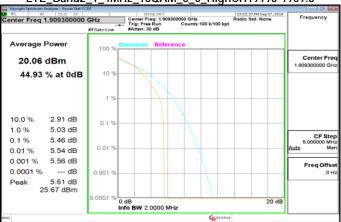
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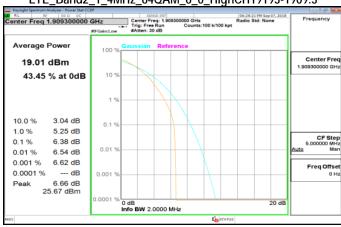
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LTE_Band2_1_4MHz_64QAM_6_0_HighCH19193-1909.3



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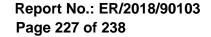
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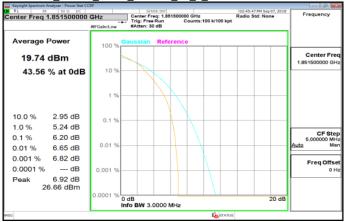
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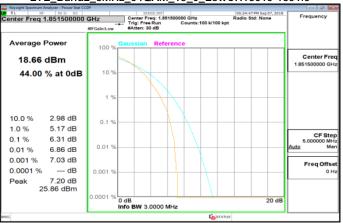




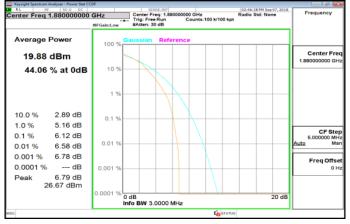
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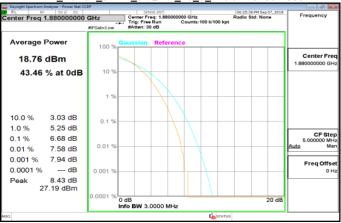
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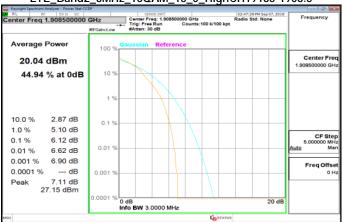
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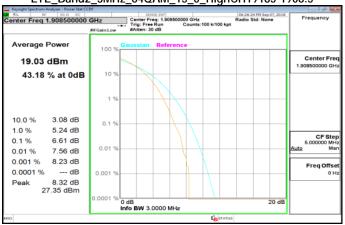
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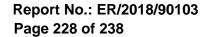
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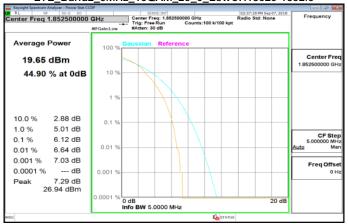
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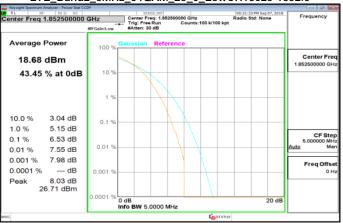




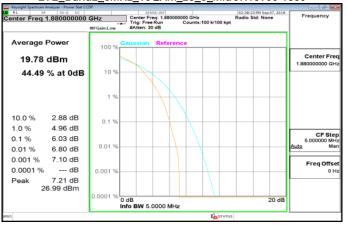
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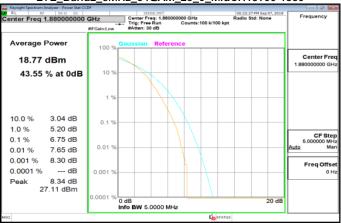
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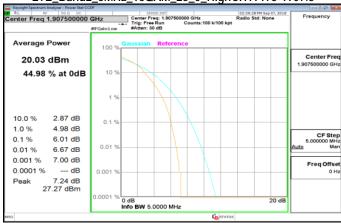
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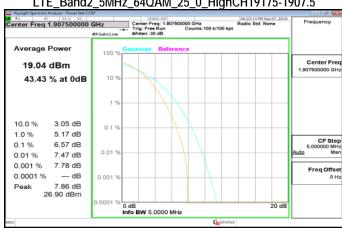
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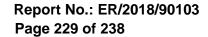
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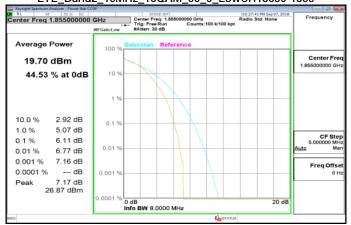
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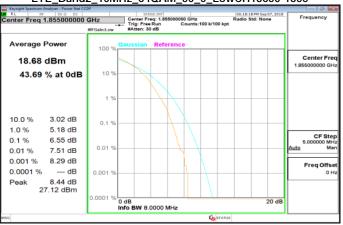




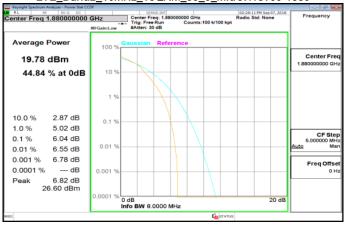
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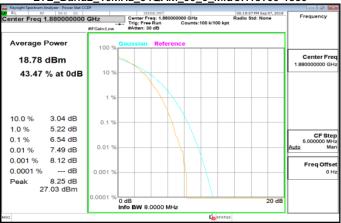
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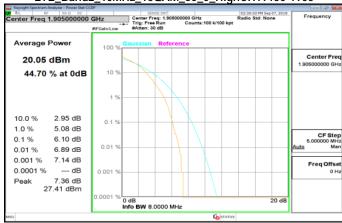
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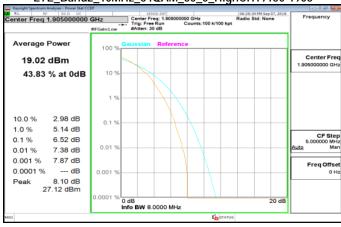
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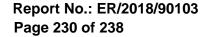
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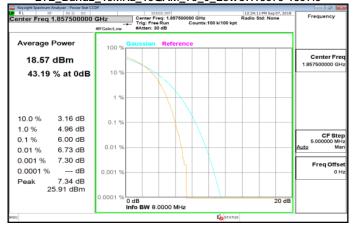
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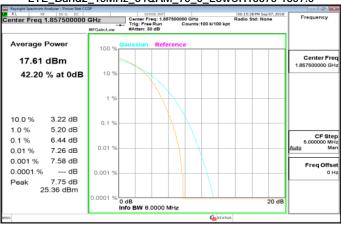




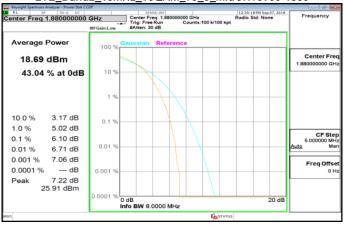
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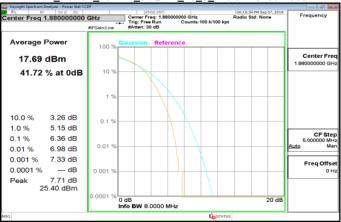
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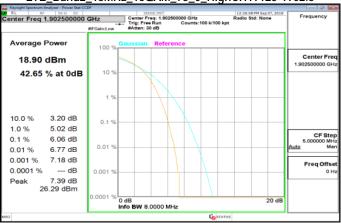
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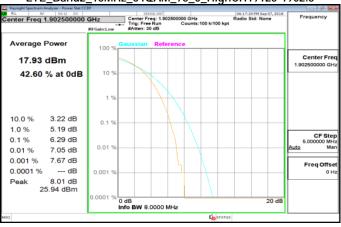
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LTE Band2 15MHz 64QAM 75 0 HighCH19125-1902.5

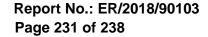


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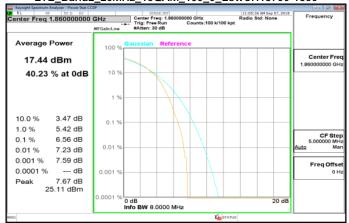
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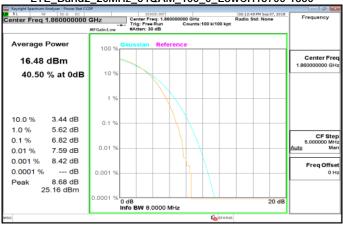




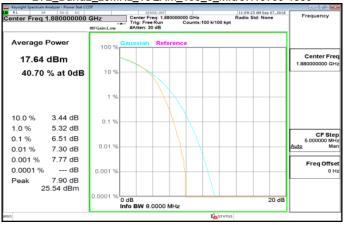
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LTE_Band2_20MHz_64QAM_100_0_LowCH18700-1860



LTE Band2 20MHz 16QAM 100 0 MidCH18900-1880



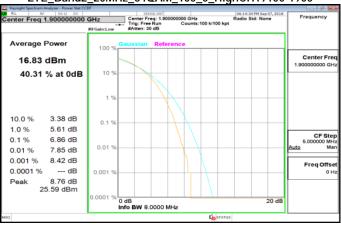
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LTE_Band2_20MHz_16QAM_100_0_HighCH19100-1900



LTE Band2 20MHz 64QAM 100 0 HighCH19100-1900



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