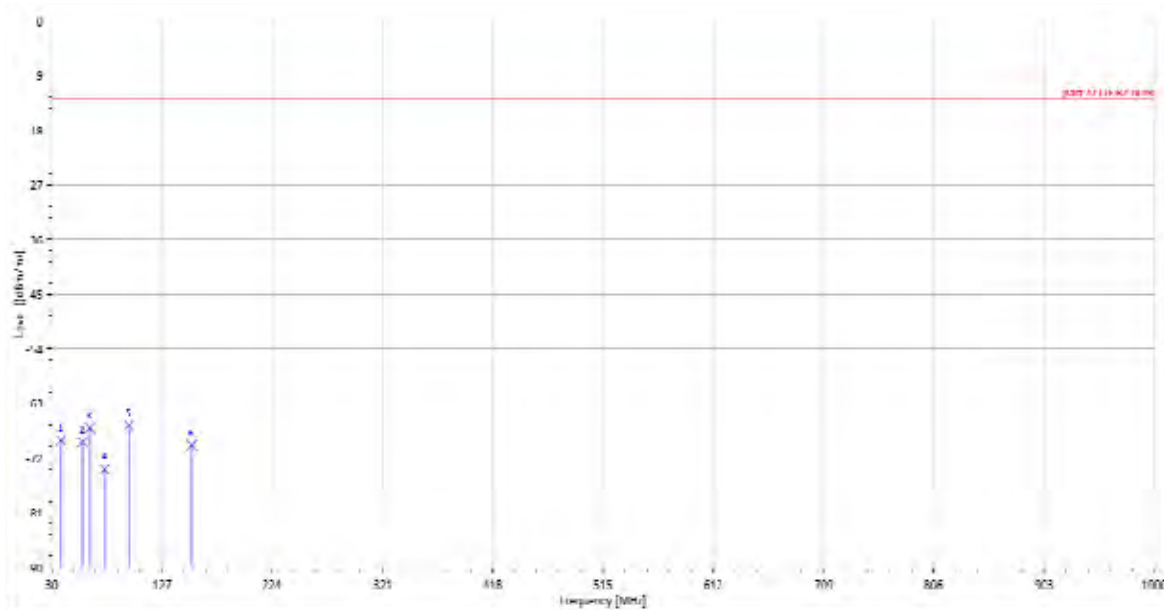


**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 2 (The Worst Case)**

ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



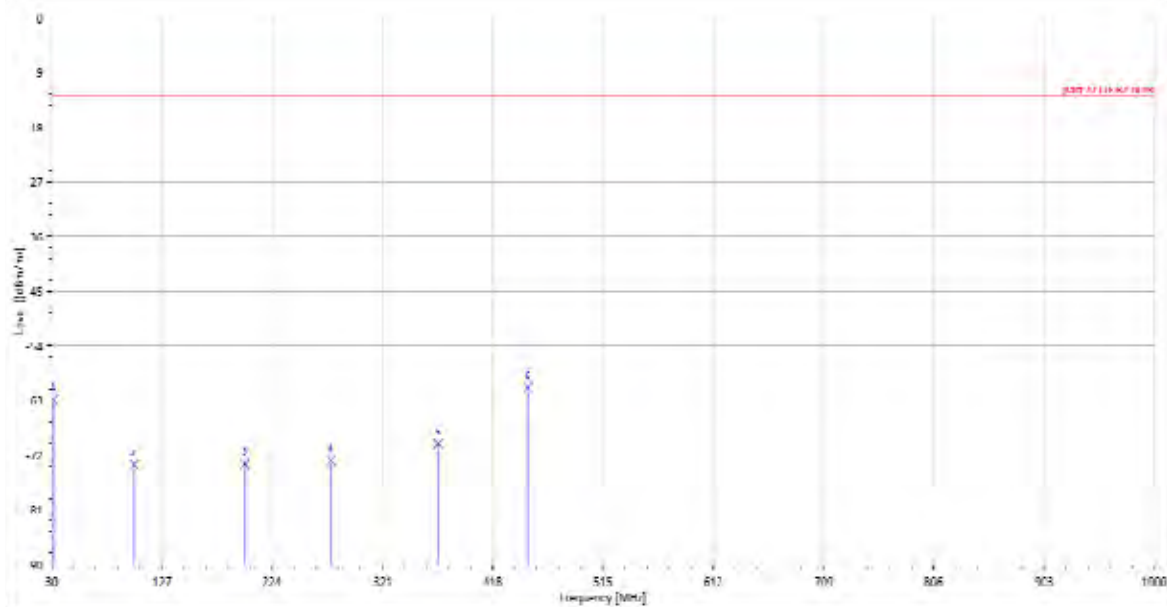
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
38.10	S	-69.07	-52.69	-15.65	-0.73	-13.00	-56.07
57.53	S	-69.40	-64.31	-4.16	-0.93	-13.00	-56.40
64.01	S	-67.04	-63.37	-2.68	-0.99	-13.00	-54.04
76.96	S	-73.85	-71.01	-1.76	-1.08	-13.00	-60.85
98.01	S	-66.62	-62.30	-3.13	-1.19	-13.00	-53.62
153.07	S	-69.93	-68.93	0.61	-1.61	-13.00	-56.93

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

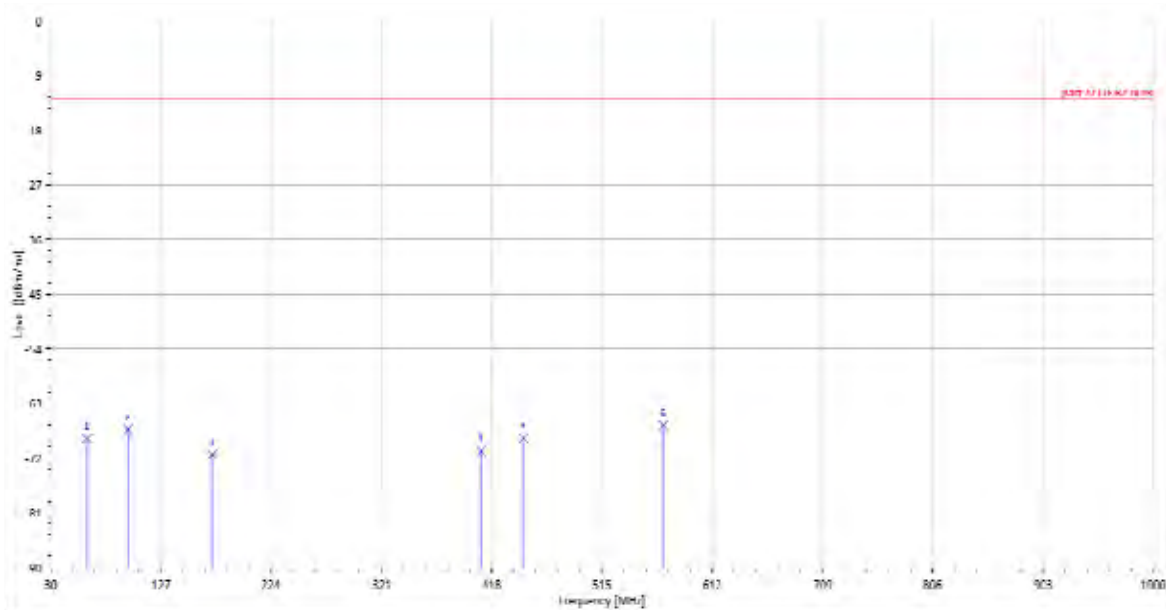


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.85	-41.07	-21.09	-0.69	-13.00	-49.85
102.87	S	-73.58	-68.94	-3.42	-1.22	-13.00	-60.58
200.03	S	-73.47	-75.57	3.78	-1.68	-13.00	-60.47
276.14	S	-72.90	-74.09	3.22	-2.03	-13.00	-59.90
370.07	S	-70.16	-71.15	3.34	-2.35	-13.00	-57.16
449.42	S	-60.88	-61.91	3.62	-2.59	-13.00	-47.88

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



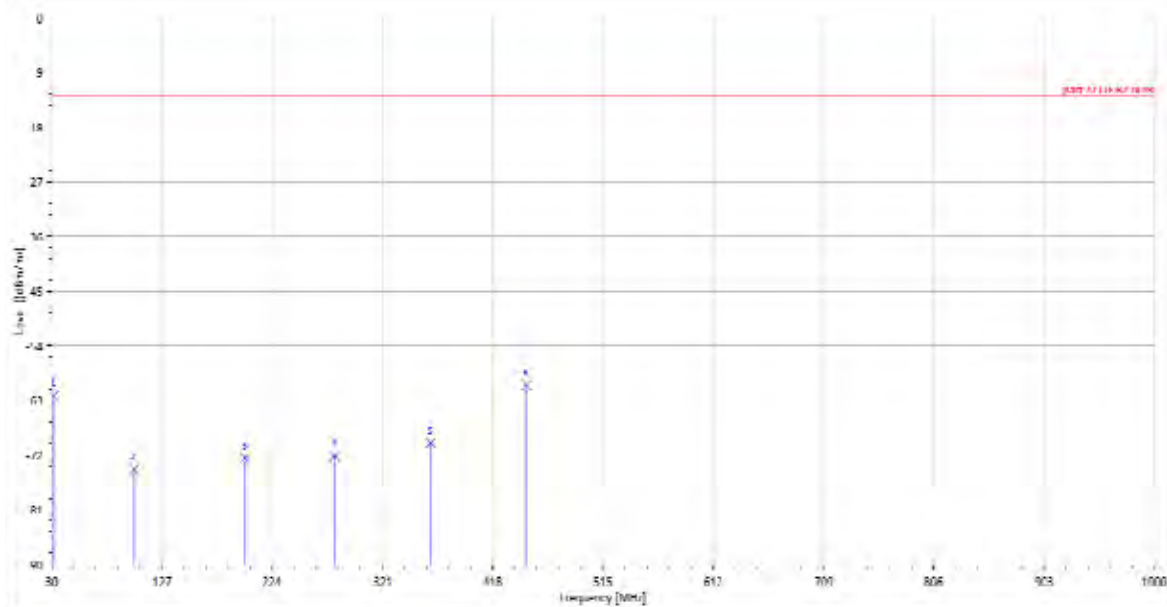
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
62.39	S	-68.79	-64.95	-2.88	-0.96	-13.00	-55.79
98.01	S	-67.35	-63.04	-3.13	-1.19	-13.00	-54.35
172.50	S	-71.44	-72.74	2.85	-1.54	-13.00	-58.44
408.93	S	-70.86	-71.85	3.28	-2.29	-13.00	-57.86
446.18	S	-68.74	-69.80	3.59	-2.52	-13.00	-55.74
569.25	S	-66.66	-68.12	4.10	-2.65	-13.00	-53.66

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.22	-40.44	-21.09	-0.69	-13.00	-49.22
102.87	S	-74.33	-69.69	-3.42	-1.22	-13.00	-61.33
200.03	S	-72.49	-74.60	3.78	-1.68	-13.00	-59.49
279.38	S	-72.15	-73.44	3.29	-2.00	-13.00	-59.15
363.59	S	-70.04	-71.09	3.37	-2.32	-13.00	-57.04
447.80	S	-60.52	-61.57	3.60	-2.55	-13.00	-47.52

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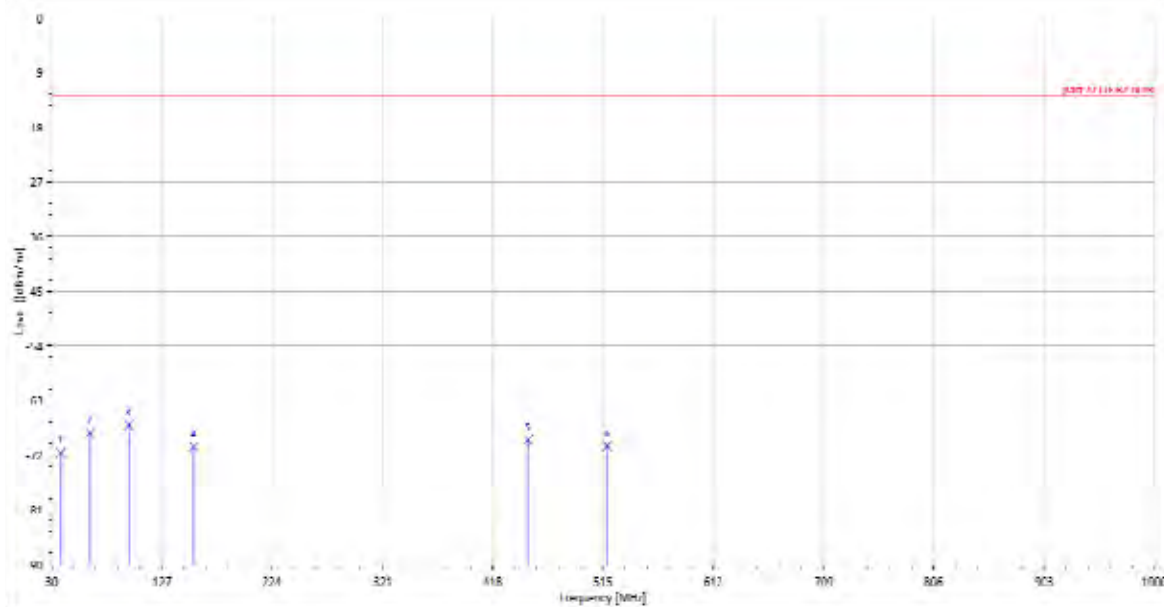
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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

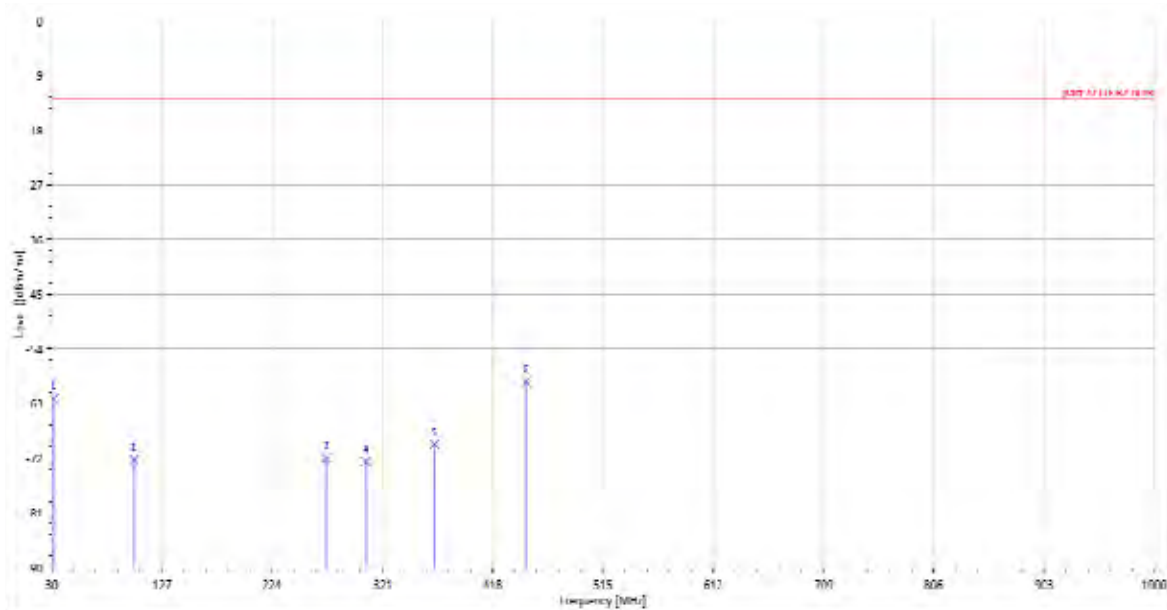


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
38.10	S	-71.62	-55.24	-15.65	-0.73	-13.00	-58.62
64.01	S	-68.31	-64.64	-2.68	-0.99	-13.00	-55.31
98.01	S	-67.11	-62.80	-3.13	-1.19	-13.00	-54.11
154.69	S	-70.64	-69.95	0.78	-1.47	-13.00	-57.64
449.42	S	-69.53	-70.55	3.62	-2.59	-13.00	-56.53
519.05	S	-70.53	-71.76	4.01	-2.78	-13.00	-57.53

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.23	-40.45	-21.09	-0.69	-13.00	-49.23
102.87	S	-72.28	-67.64	-3.42	-1.22	-13.00	-59.28
271.29	S	-71.99	-73.13	3.12	-1.98	-13.00	-58.99
306.91	S	-72.60	-73.98	3.49	-2.11	-13.00	-59.60
366.83	S	-69.76	-70.84	3.36	-2.27	-13.00	-56.76
447.80	S	-59.40	-60.45	3.60	-2.55	-13.00	-46.40

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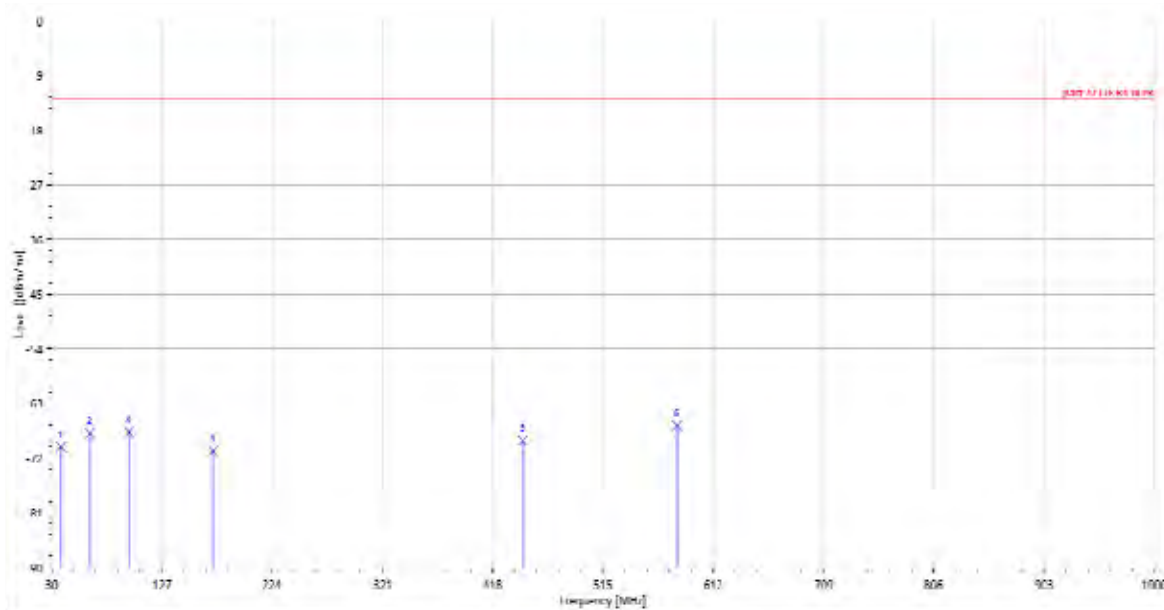
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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4 (The Worst Case)**

ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



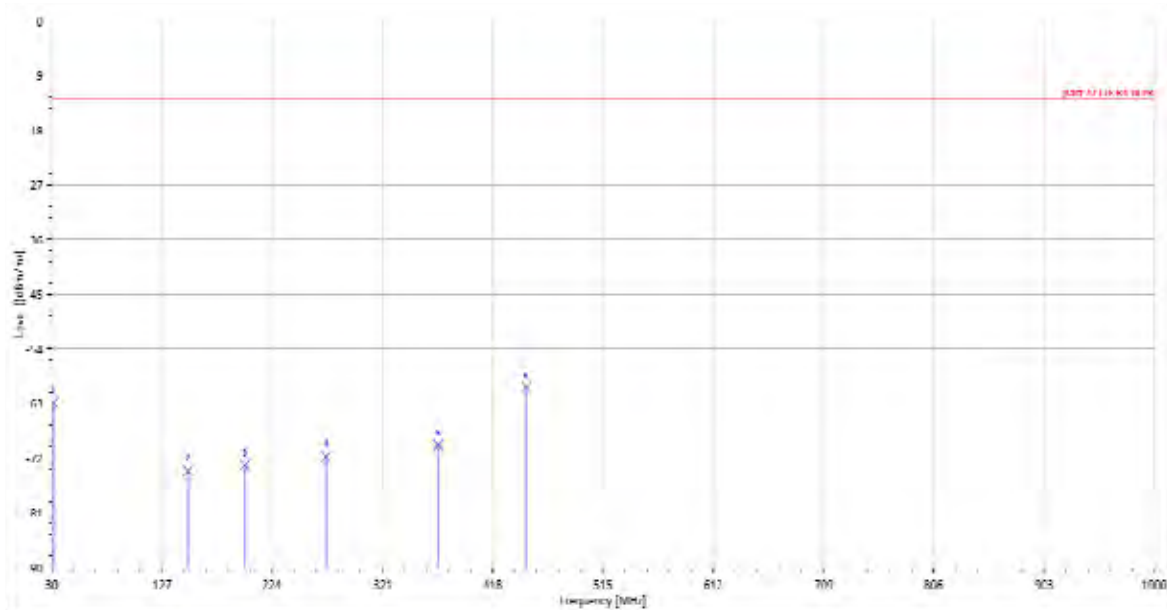
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
38.10	S	-70.17	-53.79	-15.65	-0.73	-13.00	-57.17
64.01	S	-67.93	-64.25	-2.68	-0.99	-13.00	-54.93
98.01	S	-67.73	-63.41	-3.13	-1.19	-13.00	-54.73
172.50	S	-70.82	-72.12	2.85	-1.54	-13.00	-57.82
444.56	S	-69.18	-70.36	3.57	-2.39	-13.00	-56.18
580.58	S	-66.70	-68.07	4.18	-2.82	-13.00	-53.70

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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.91	-41.13	-21.09	-0.69	-13.00	-49.91
149.83	S	-74.10	-72.92	0.25	-1.43	-13.00	-61.10
200.03	S	-73.17	-75.28	3.78	-1.68	-13.00	-60.17
271.29	S	-71.78	-72.92	3.12	-1.98	-13.00	-58.78
370.07	S	-69.92	-70.91	3.34	-2.35	-13.00	-56.92
447.80	S	-60.42	-61.47	3.60	-2.55	-13.00	-47.42

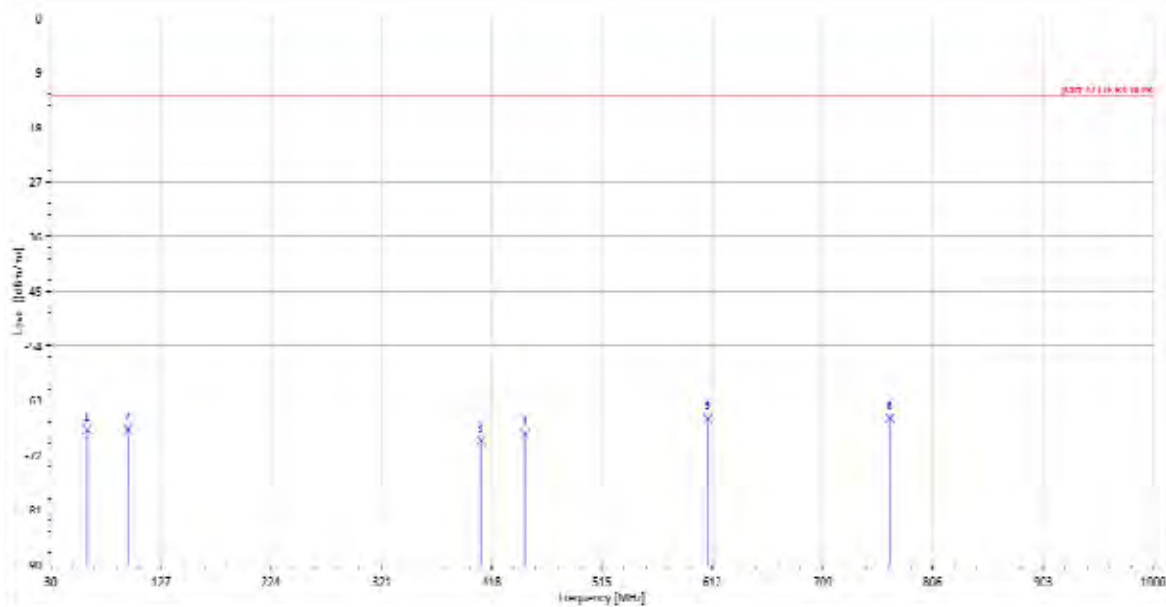
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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
62.39	S	-67.82	-63.97	-2.88	-0.96	-13.00	-54.82
98.01	S	-67.69	-63.37	-3.13	-1.19	-13.00	-54.69
408.93	S	-69.64	-70.63	3.28	-2.29	-13.00	-56.64
447.80	S	-68.57	-69.62	3.60	-2.55	-13.00	-55.57
608.11	S	-66.01	-67.61	4.37	-2.77	-13.00	-53.01
768.43	S	-65.89	-67.91	5.18	-3.16	-13.00	-52.89

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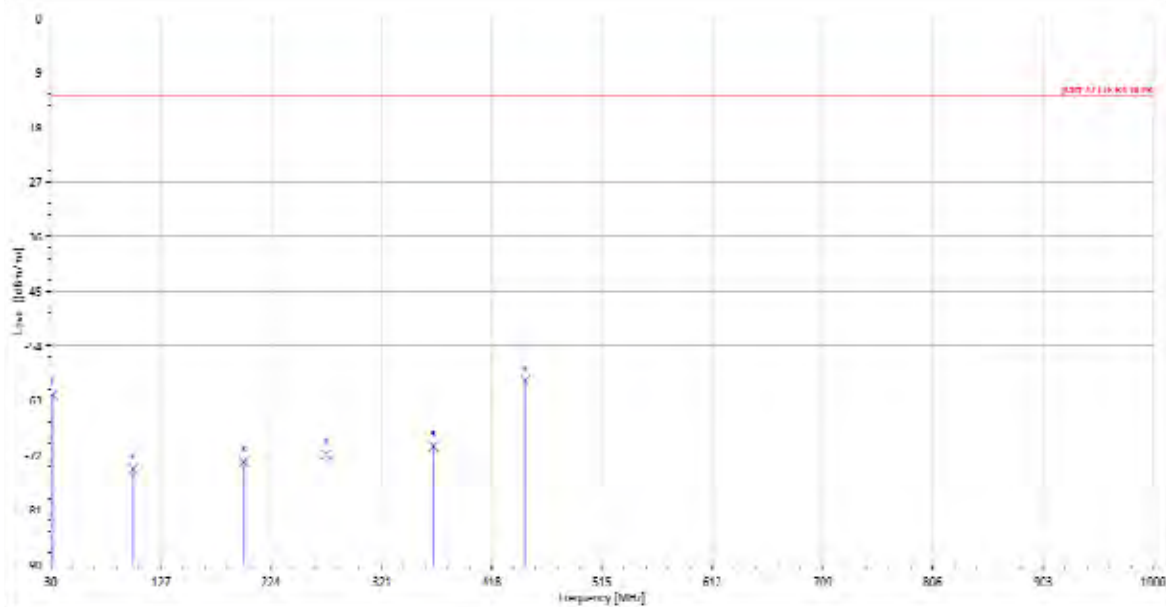
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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

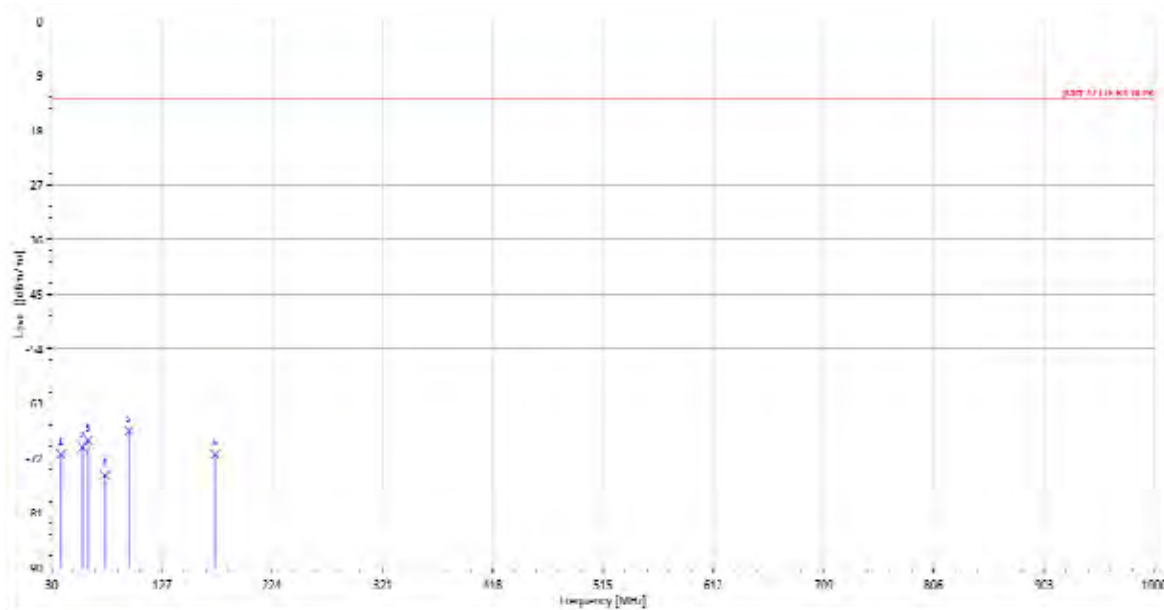


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.06	-40.28	-21.09	-0.69	-13.00	-49.06
102.87	S	-74.30	-69.66	-3.42	-1.22	-13.00	-61.30
200.03	S	-73.13	-75.24	3.78	-1.68	-13.00	-60.13
272.90	S	-71.89	-73.06	3.15	-1.98	-13.00	-58.89
366.83	S	-70.56	-71.65	3.36	-2.27	-13.00	-57.56
447.80	S	-59.72	-60.77	3.60	-2.55	-13.00	-46.72

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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
38.10	S	-71.35	-54.98	-15.65	-0.73	-13.00	-58.35
57.53	S	-70.25	-65.16	-4.16	-0.93	-13.00	-57.25
62.39	S	-69.07	-65.23	-2.88	-0.96	-13.00	-56.07
76.96	S	-74.88	-72.04	-1.76	-1.08	-13.00	-61.88
98.01	S	-67.54	-63.22	-3.13	-1.19	-13.00	-54.54
174.12	S	-71.42	-72.85	3.02	-1.59	-13.00	-58.42

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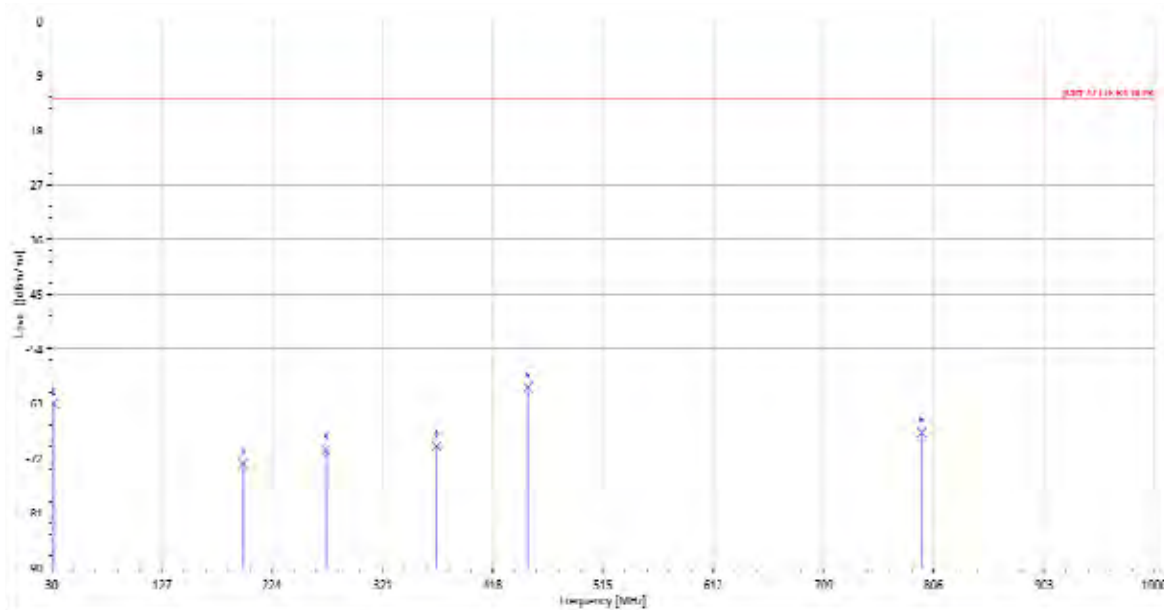
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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-63.06	-41.28	-21.09	-0.69	-13.00	-50.06
198.41	S	-73.04	-75.19	3.84	-1.69	-13.00	-60.04
271.29	S	-70.67	-71.81	3.12	-1.98	-13.00	-57.67
368.45	S	-70.06	-71.14	3.35	-2.27	-13.00	-57.06
449.42	S	-60.41	-61.43	3.62	-2.59	-13.00	-47.41
795.96	S	-67.80	-69.65	5.22	-3.37	-13.00	-54.80

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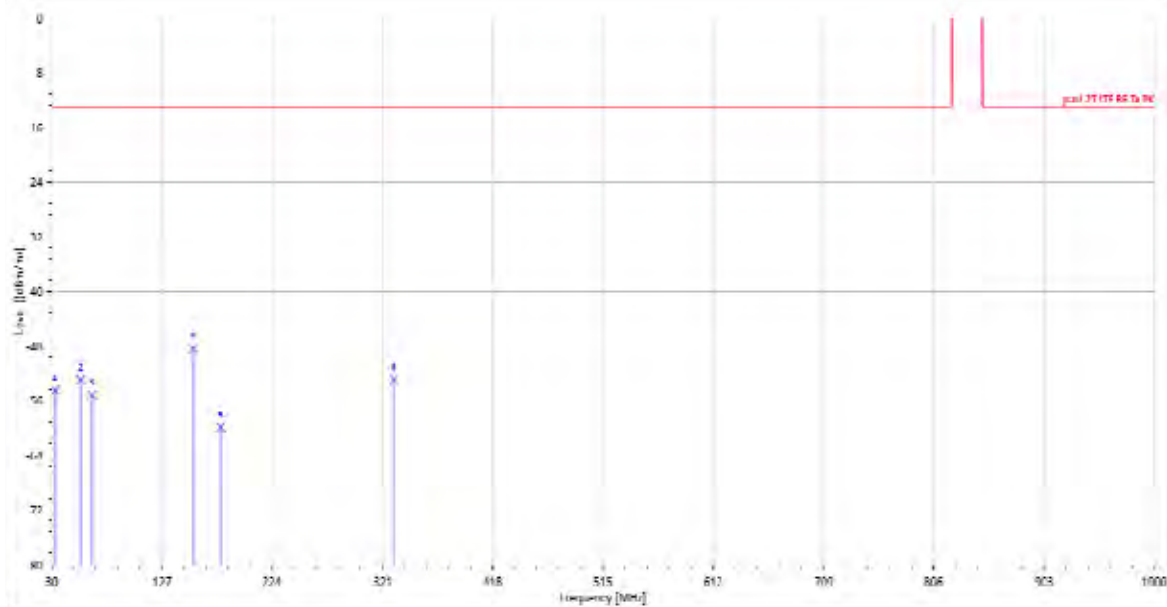
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 5 (The Worst Case)**

ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
33.24	S	-54.49	-34.10	-19.69	-0.70	-13.00	-41.49
55.91	S	-52.98	-47.24	-4.81	-0.93	-13.00	-39.98
65.63	S	-55.21	-51.74	-2.48	-0.99	-13.00	-42.21
154.69	S	-48.41	-47.72	0.78	-1.47	-13.00	-35.41
178.98	S	-59.94	-61.86	3.56	-1.64	-13.00	-46.94
331.20	S	-52.96	-54.27	3.46	-2.16	-13.00	-39.96

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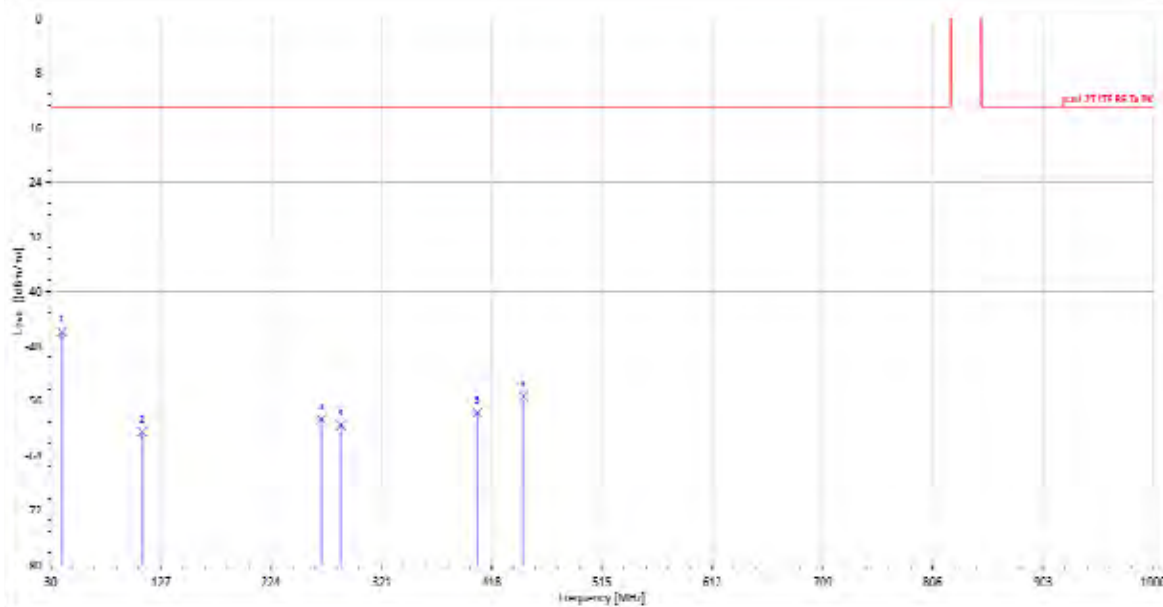
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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



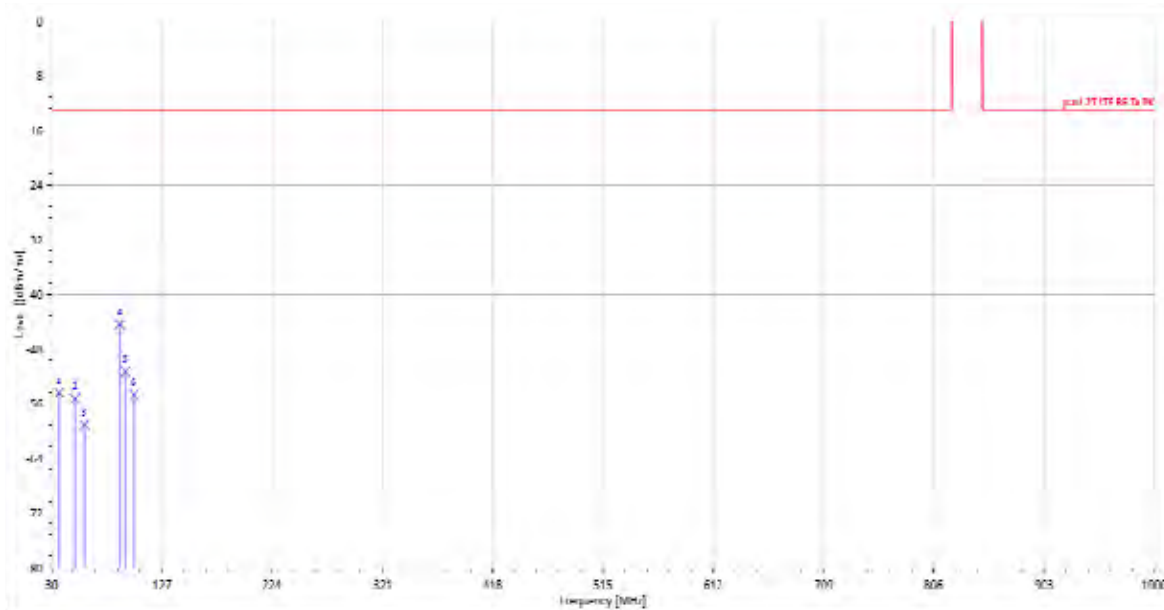
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
39.72	S	-45.95	-30.83	-14.33	-0.79	-13.00	-32.95
110.97	S	-60.58	-55.72	-3.58	-1.28	-13.00	-47.58
268.05	S	-58.80	-59.69	2.89	-2.00	-13.00	-45.80
285.86	S	-59.64	-60.98	3.36	-2.03	-13.00	-46.64
405.69	S	-57.83	-58.67	3.25	-2.40	-13.00	-44.83
446.18	S	-55.40	-56.47	3.59	-2.52	-13.00	-42.40

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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



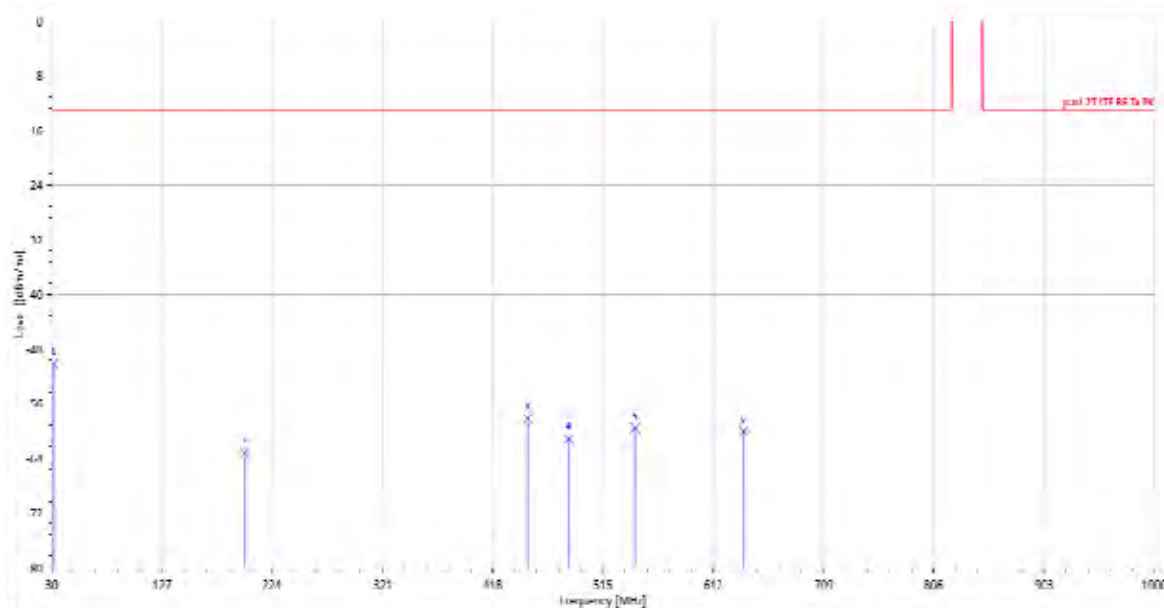
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
36.48	S	-54.43	-36.77	-16.96	-0.69	-13.00	-41.43
51.05	S	-55.32	-47.70	-6.74	-0.88	-13.00	-42.32
59.15	S	-59.14	-54.67	-3.52	-0.95	-13.00	-46.14
89.92	S	-44.43	-41.04	-2.26	-1.14	-13.00	-31.43
94.77	S	-51.34	-47.41	-2.78	-1.16	-13.00	-38.34
102.87	S	-54.69	-50.05	-3.42	-1.22	-13.00	-41.69

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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-50.19	-28.40	-21.09	-0.69	-13.00	-37.19
200.03	S	-63.26	-65.37	3.78	-1.68	-13.00	-50.26
449.42	S	-58.21	-59.23	3.62	-2.59	-13.00	-45.21
485.04	S	-61.23	-62.60	3.91	-2.55	-13.00	-48.23
543.34	S	-59.56	-60.69	3.98	-2.85	-13.00	-46.56
638.88	S	-60.09	-61.59	4.55	-3.05	-13.00	-47.09

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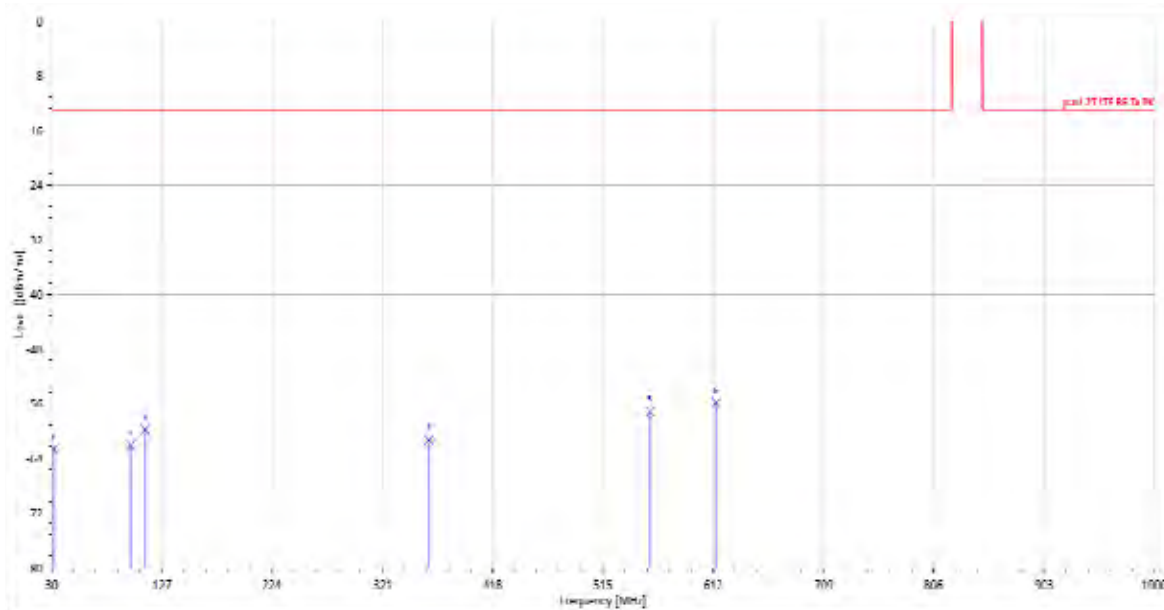
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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.71	-40.93	-21.09	-0.69	-13.00	-49.71
99.63	S	-62.20	-57.70	-3.30	-1.20	-13.00	-49.20
112.59	S	-59.85	-55.06	-3.52	-1.27	-13.00	-46.85
361.97	S	-61.37	-62.38	3.38	-2.37	-13.00	-48.37
556.29	S	-57.20	-58.28	4.01	-2.93	-13.00	-44.20
614.59	S	-55.90	-57.30	4.41	-3.01	-13.00	-42.90

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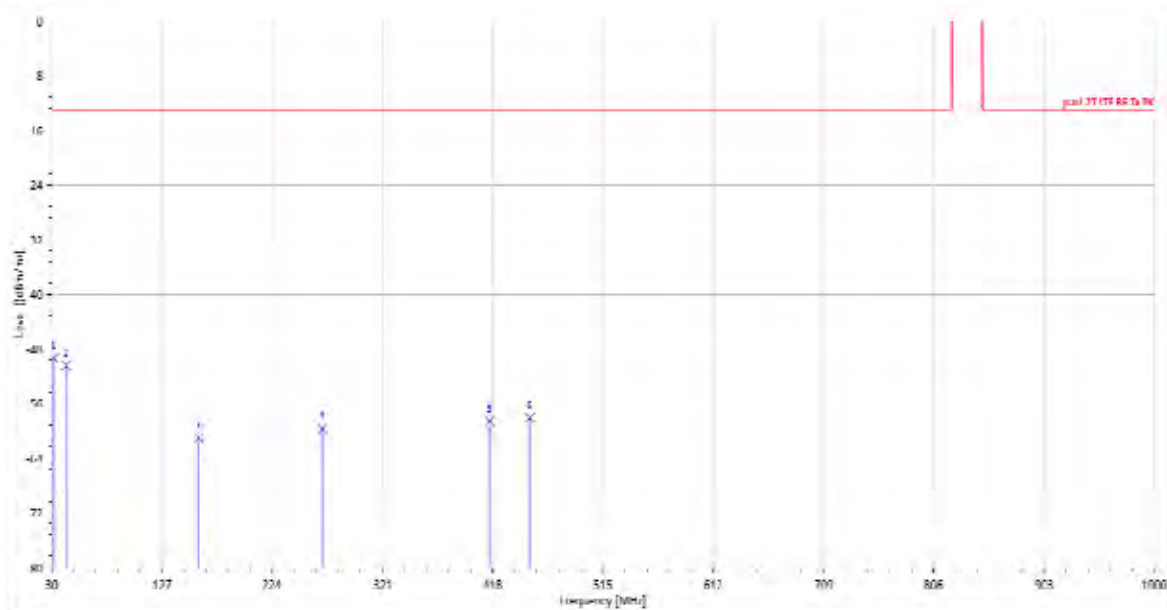
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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-49.38	-27.60	-21.09	-0.69	-13.00	-36.38
42.95	S	-50.48	-37.85	-11.84	-0.80	-13.00	-37.48
159.55	S	-61.05	-60.82	1.29	-1.52	-13.00	-48.05
268.05	S	-59.66	-60.54	2.89	-2.00	-13.00	-46.66
415.41	S	-58.59	-59.44	3.33	-2.48	-13.00	-45.59
451.04	S	-58.11	-59.14	3.63	-2.59	-13.00	-45.11

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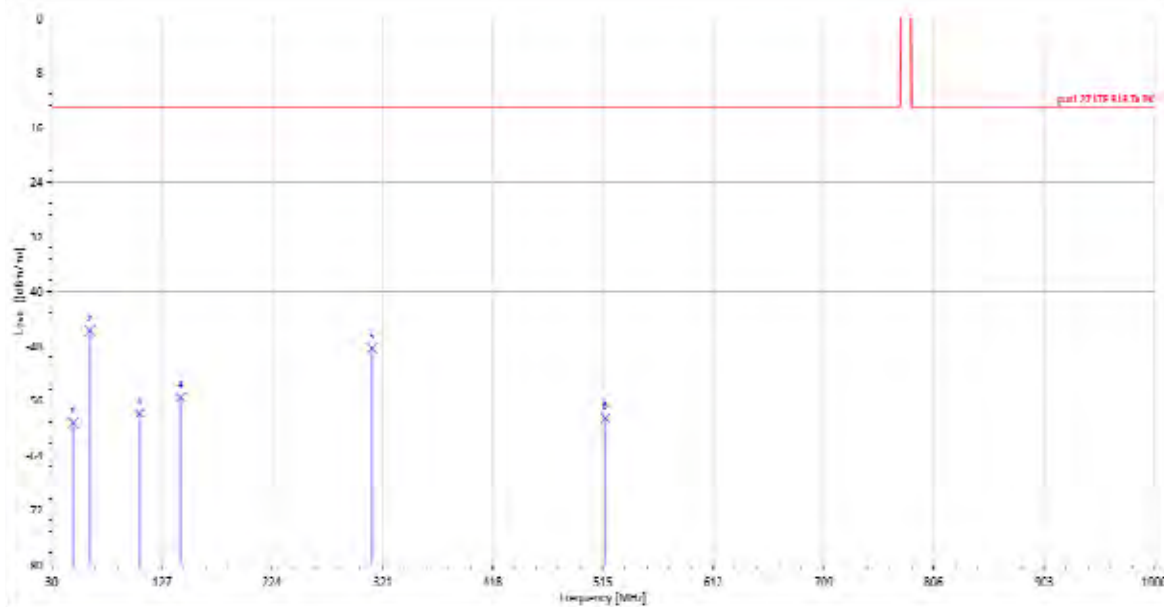
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13 (The Worst Case)**

ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
49.43	S	-59.34	-50.97	-7.51	-0.86	-13.00	-46.34
64.01	S	-45.80	-42.12	-2.68	-0.99	-13.00	-32.80
107.73	S	-57.91	-53.11	-3.55	-1.25	-13.00	-44.91
143.36	S	-55.57	-53.35	-0.72	-1.51	-13.00	-42.57
311.77	S	-48.37	-49.74	3.49	-2.12	-13.00	-35.37
517.43	S	-58.61	-59.63	4.02	-3.00	-13.00	-45.61

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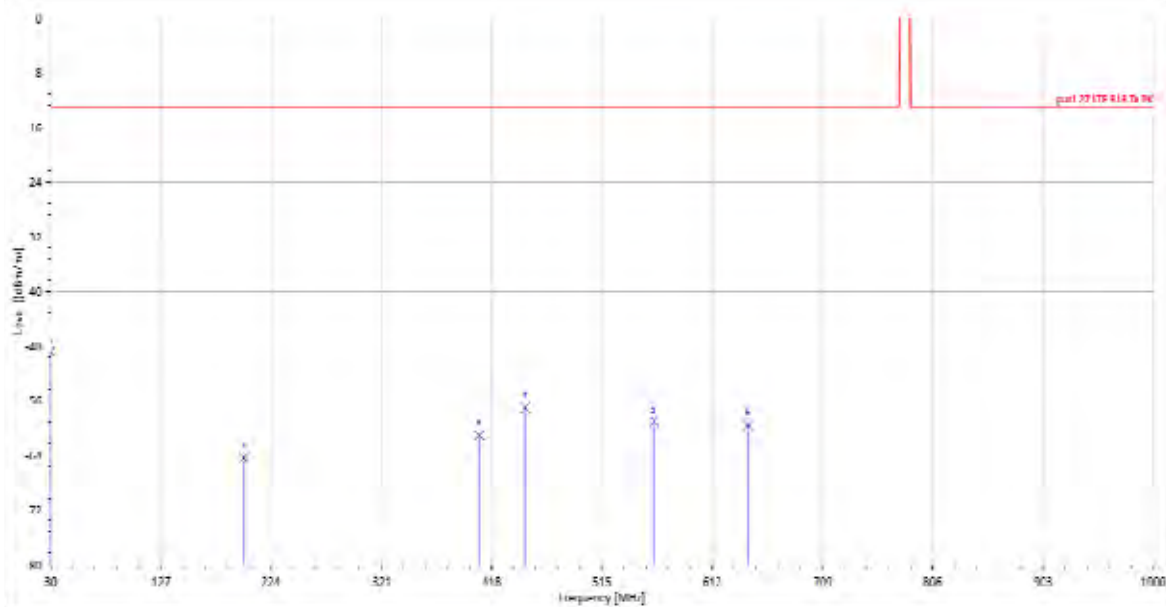
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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.85	-25.71	-22.50	-0.64	-13.00	-35.85
200.03	S	-64.42	-66.52	3.78	-1.68	-13.00	-51.42
407.31	S	-61.10	-61.99	3.26	-2.37	-13.00	-48.10
447.80	S	-57.07	-58.12	3.60	-2.55	-13.00	-44.07
561.15	S	-59.09	-60.36	4.05	-2.77	-13.00	-46.09
643.74	S	-59.62	-61.23	4.58	-2.97	-13.00	-46.62

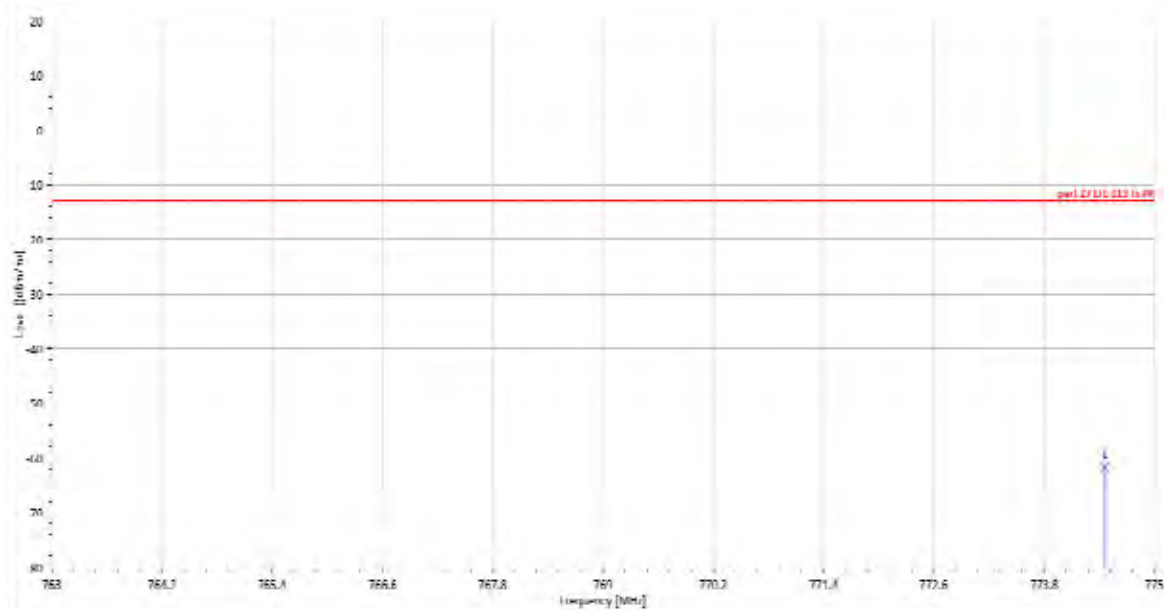
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13 (763MHz-755MHz)**

ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



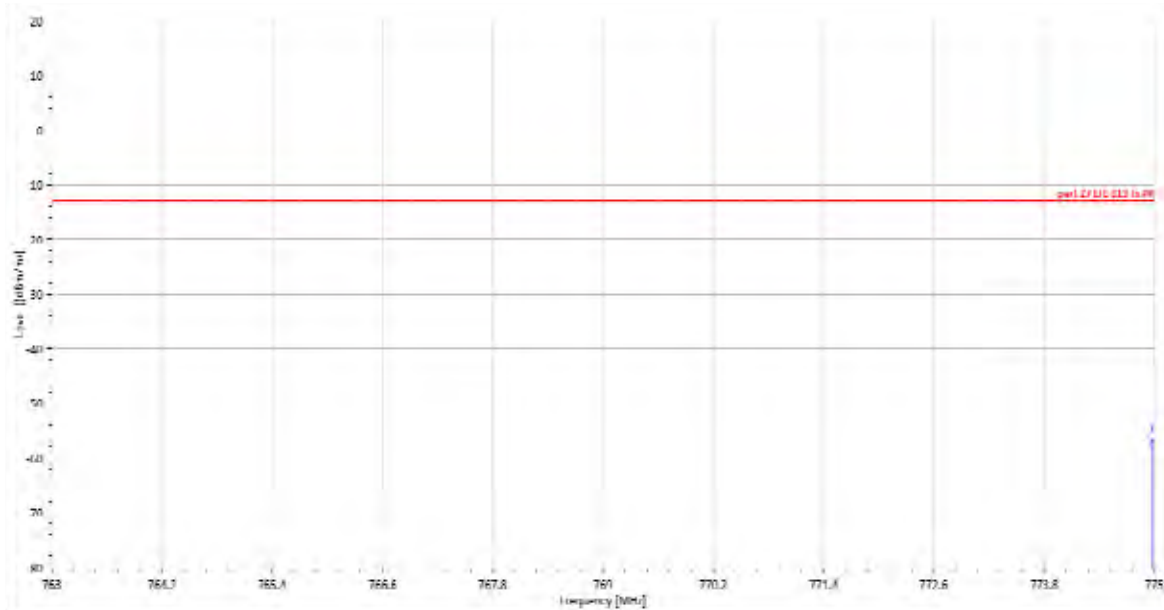
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
774.46	S	-61.69	-63.40	5.19	-3.48	-13.00	-48.69

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
774.98	S	-57.00	-58.70	5.19	-3.49	-13.00	-44.00

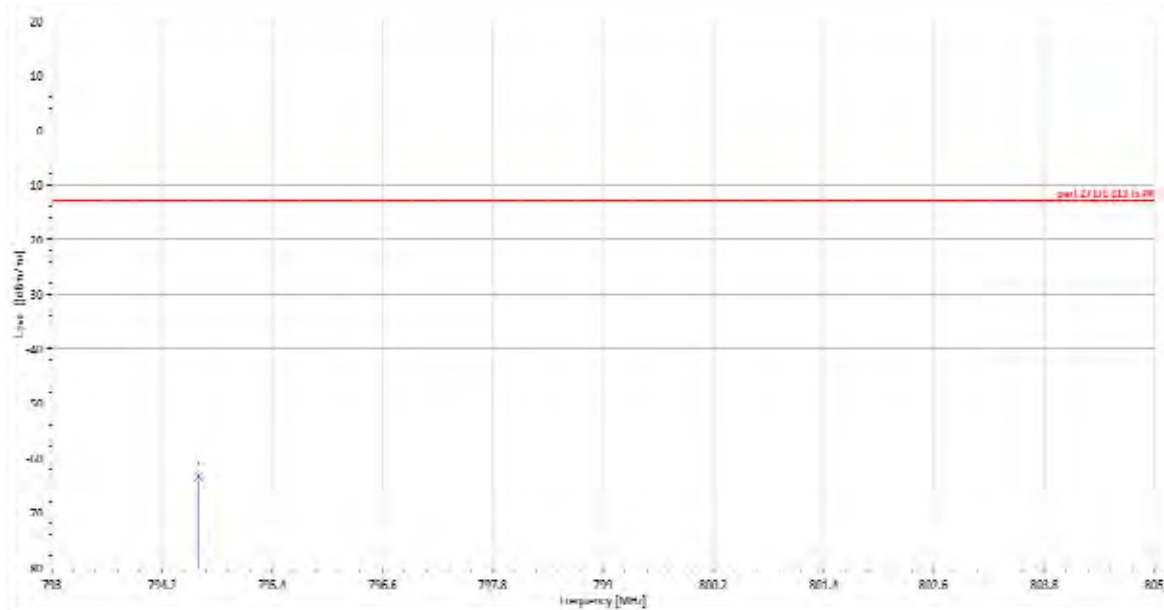
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13 (793MHz-805MHz)**

ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



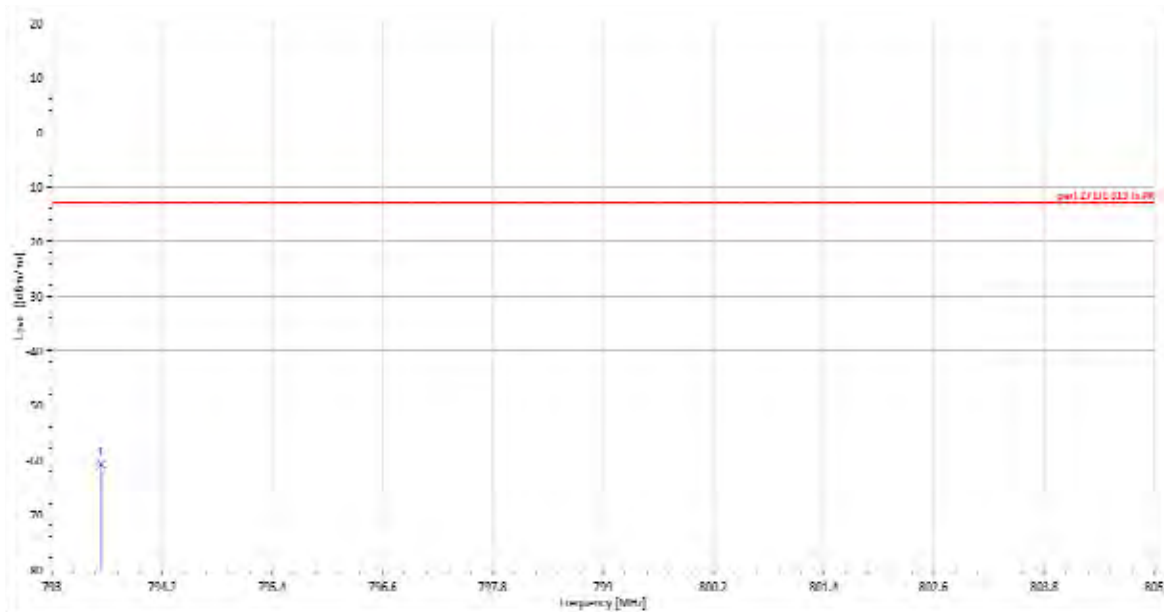
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
794.60	S	-63.33	-65.16	5.21	-3.38	-13.00	-50.33

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
793.54	S	-60.83	-62.57	5.21	-3.47	-13.00	-47.83

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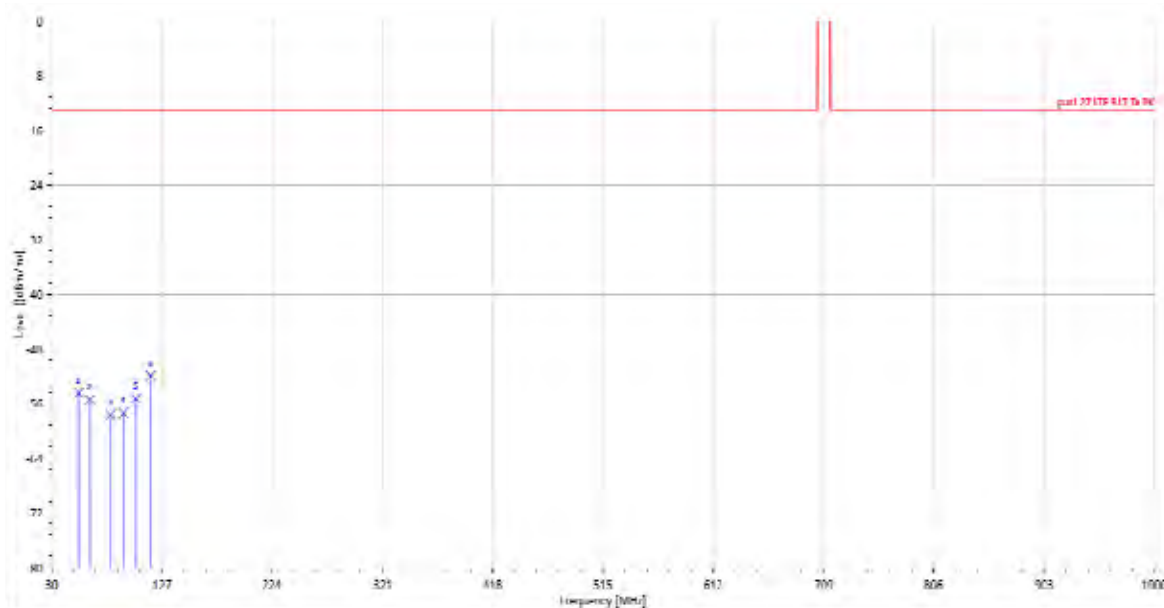
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)**

ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



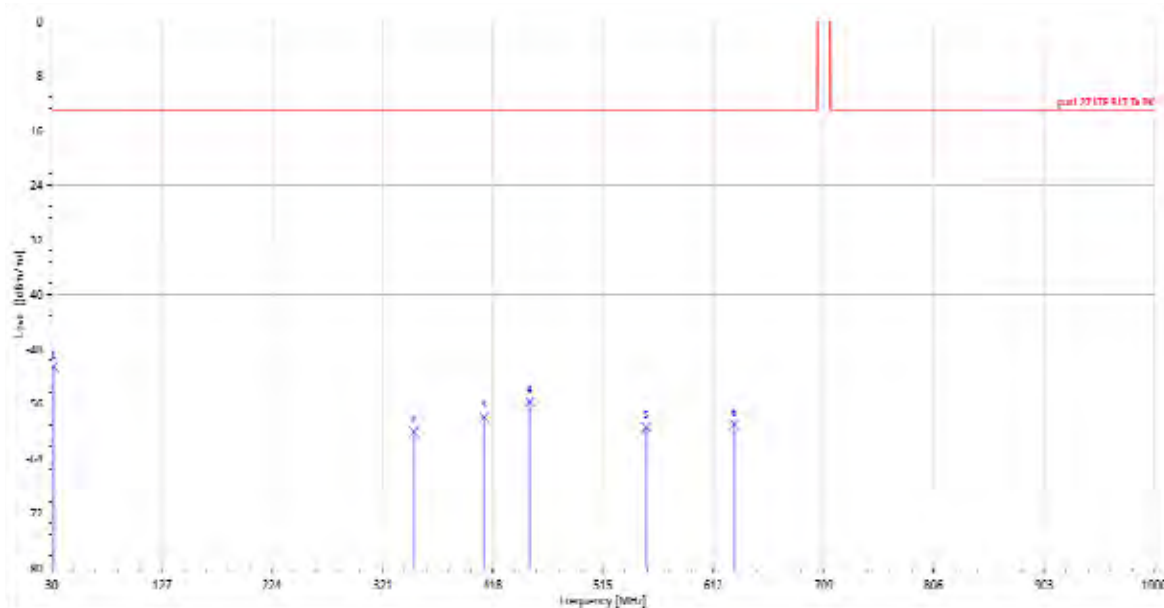
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
54.29	S	-54.46	-48.14	-5.45	-0.87	-13.00	-41.46
64.01	S	-55.45	-51.78	-2.68	-0.99	-13.00	-42.45
81.82	S	-57.66	-54.79	-1.79	-1.09	-13.00	-44.66
93.16	S	-57.40	-53.63	-2.60	-1.17	-13.00	-44.40
104.49	S	-55.33	-50.62	-3.46	-1.24	-13.00	-42.33
117.45	S	-51.98	-47.31	-3.35	-1.32	-13.00	-38.98

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



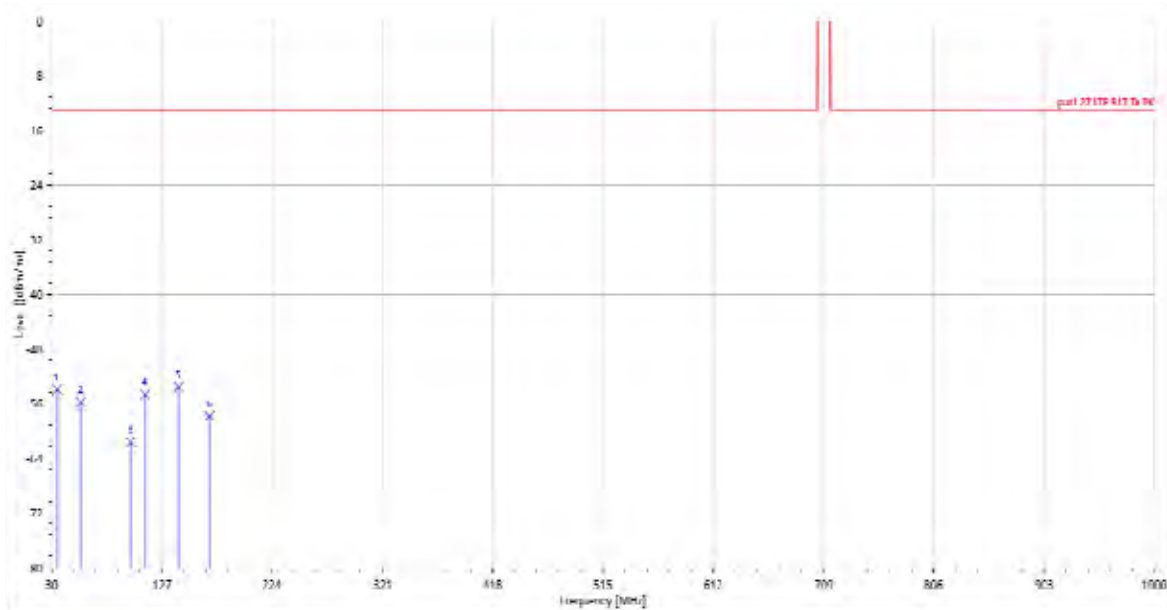
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-50.63	-28.85	-21.09	-0.69	-13.00	-37.63
349.02	S	-60.17	-61.43	3.44	-2.18	-13.00	-47.17
410.55	S	-57.98	-58.79	3.29	-2.49	-13.00	-44.98
451.04	S	-55.77	-56.80	3.63	-2.59	-13.00	-42.77
553.06	S	-59.51	-60.62	3.99	-2.88	-13.00	-46.51
630.78	S	-59.06	-60.42	4.50	-3.14	-13.00	-46.06

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.86	S	-53.98	-34.97	-18.28	-0.72	-13.00	-40.98
55.91	S	-55.86	-50.11	-4.81	-0.93	-13.00	-42.86
99.63	S	-61.67	-57.17	-3.30	-1.20	-13.00	-48.67
112.59	S	-54.70	-49.91	-3.52	-1.27	-13.00	-41.70
141.74	S	-53.64	-51.28	-0.96	-1.40	-13.00	-40.64
169.27	S	-57.85	-58.64	2.48	-1.69	-13.00	-44.85

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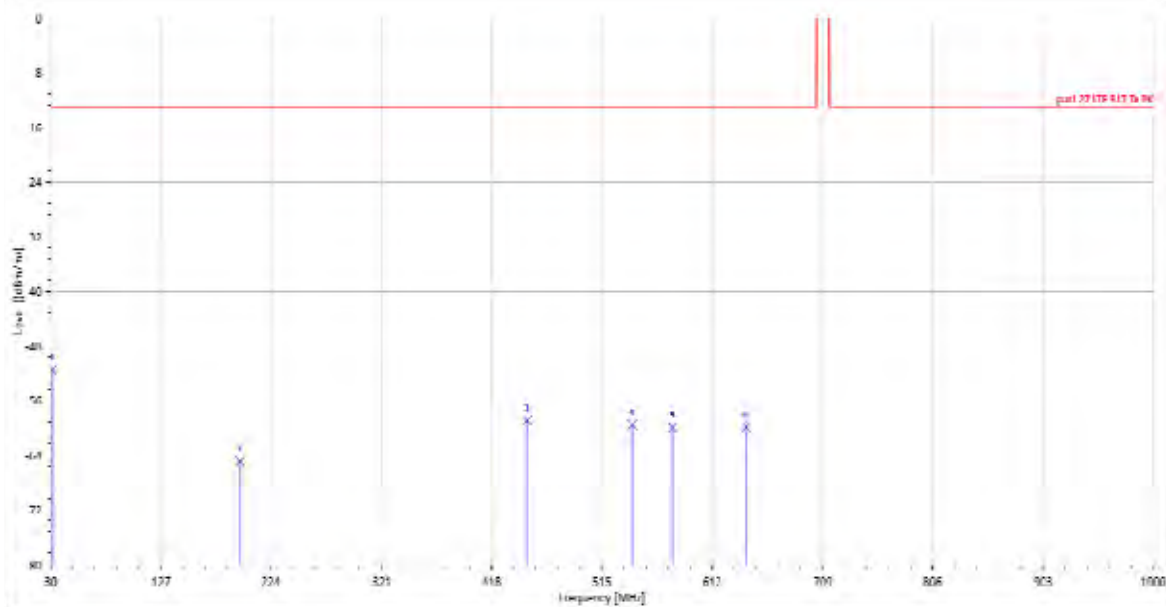
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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



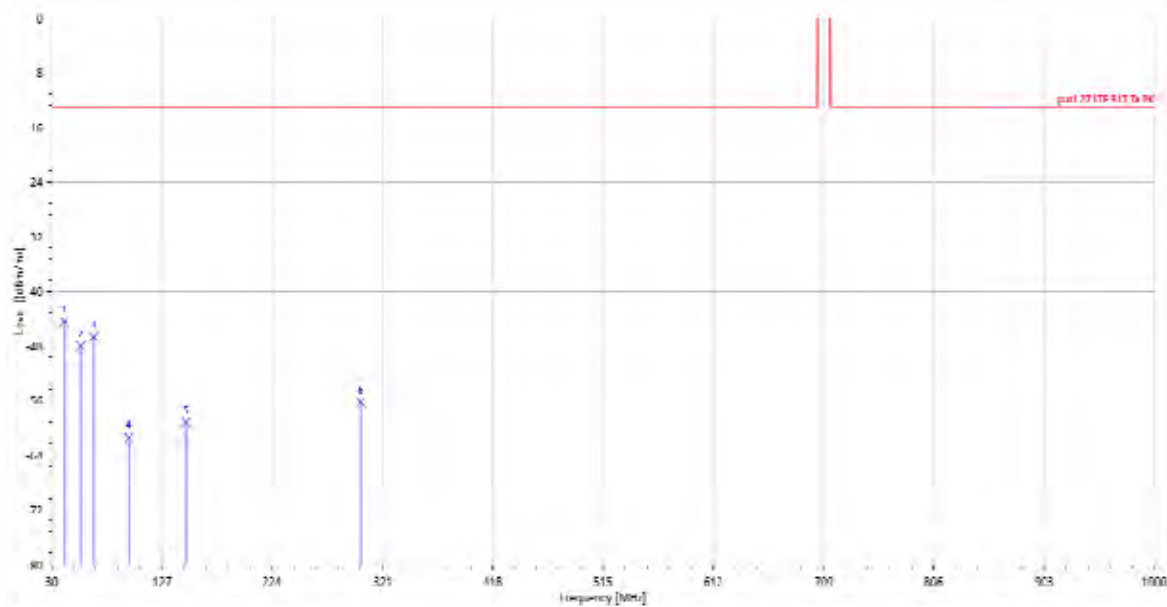
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-51.53	-29.75	-21.09	-0.69	-13.00	-38.53
196.79	S	-64.95	-67.17	3.90	-1.68	-13.00	-51.95
449.42	S	-58.96	-59.99	3.62	-2.59	-13.00	-45.96
541.72	S	-59.56	-60.88	3.98	-2.66	-13.00	-46.56
577.35	S	-59.97	-61.41	4.16	-2.72	-13.00	-46.97
642.12	S	-59.91	-61.22	4.57	-3.26	-13.00	-46.91

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
41.34	S	-44.44	-30.58	-13.08	-0.78	-13.00	-31.44
55.91	S	-48.04	-42.30	-4.81	-0.93	-13.00	-35.04
67.25	S	-46.69	-43.39	-2.28	-1.02	-13.00	-33.69
98.01	S	-61.48	-57.16	-3.13	-1.19	-13.00	-48.48
148.21	S	-59.22	-57.77	0.01	-1.46	-13.00	-46.22
302.05	S	-56.26	-57.66	3.50	-2.10	-13.00	-43.26

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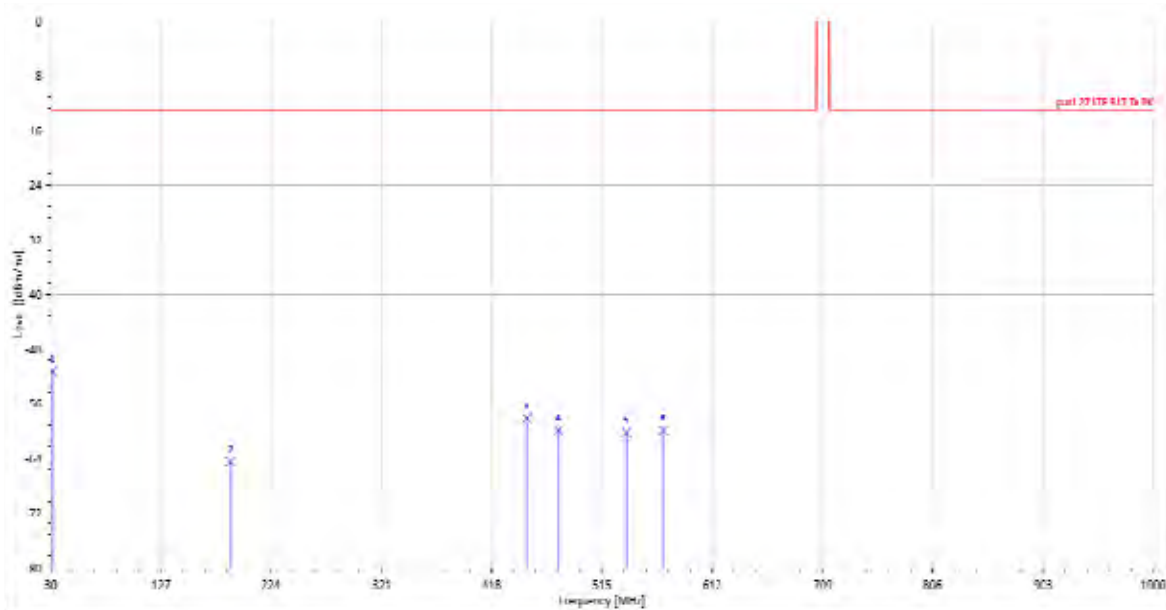
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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-51.28	-29.50	-21.09	-0.69	-13.00	-38.28
188.70	S	-64.56	-67.02	4.08	-1.62	-13.00	-51.56
449.42	S	-58.20	-59.23	3.62	-2.59	-13.00	-45.20
476.94	S	-59.94	-61.15	3.85	-2.64	-13.00	-46.94
536.86	S	-60.27	-61.41	3.99	-2.85	-13.00	-47.27
569.25	S	-59.97	-61.42	4.10	-2.65	-13.00	-46.97

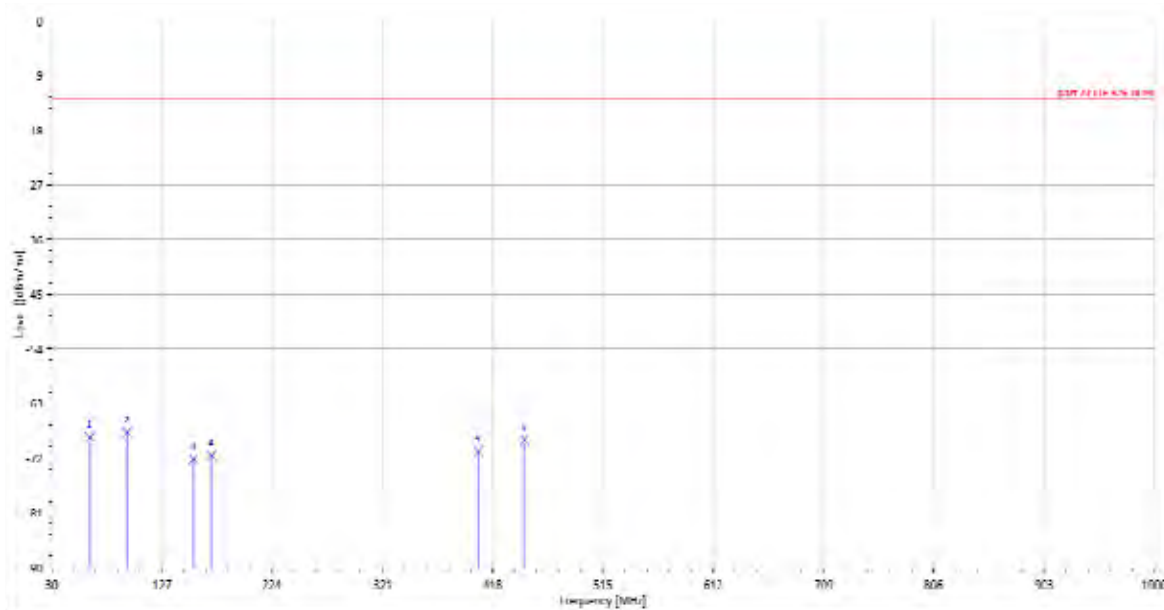
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**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 25 (The Worst Case)**

ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



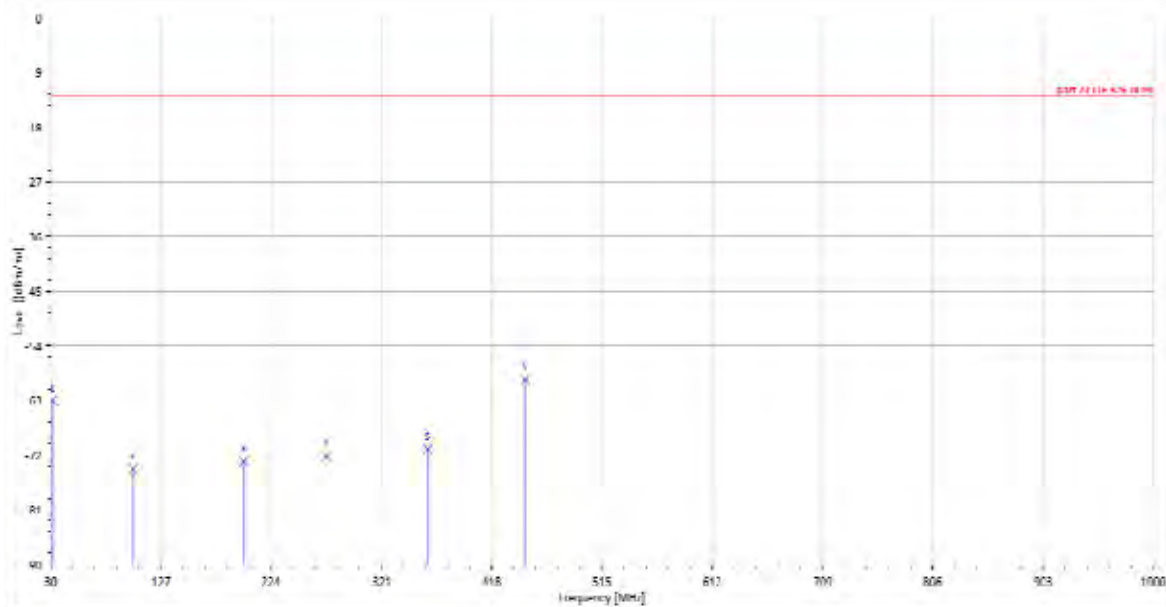
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
64.01	S	-68.59	-64.92	-2.68	-0.99	-13.00	-55.59
96.39	S	-67.74	-63.63	-2.95	-1.17	-13.00	-54.74
154.69	S	-72.17	-71.48	0.78	-1.47	-13.00	-59.17
170.88	S	-71.54	-72.58	2.67	-1.63	-13.00	-58.54
405.69	S	-70.91	-71.76	3.25	-2.40	-13.00	-57.91
446.18	S	-69.00	-70.07	3.59	-2.52	-13.00	-56.00

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-63.06	-41.28	-21.09	-0.69	-13.00	-50.06
102.87	S	-74.30	-69.66	-3.42	-1.22	-13.00	-61.30
200.03	S	-73.07	-75.17	3.78	-1.68	-13.00	-60.07
272.90	S	-72.18	-73.35	3.15	-1.98	-13.00	-59.18
361.97	S	-71.04	-72.06	3.38	-2.37	-13.00	-58.04
447.80	S	-59.55	-60.60	3.60	-2.55	-13.00	-46.55

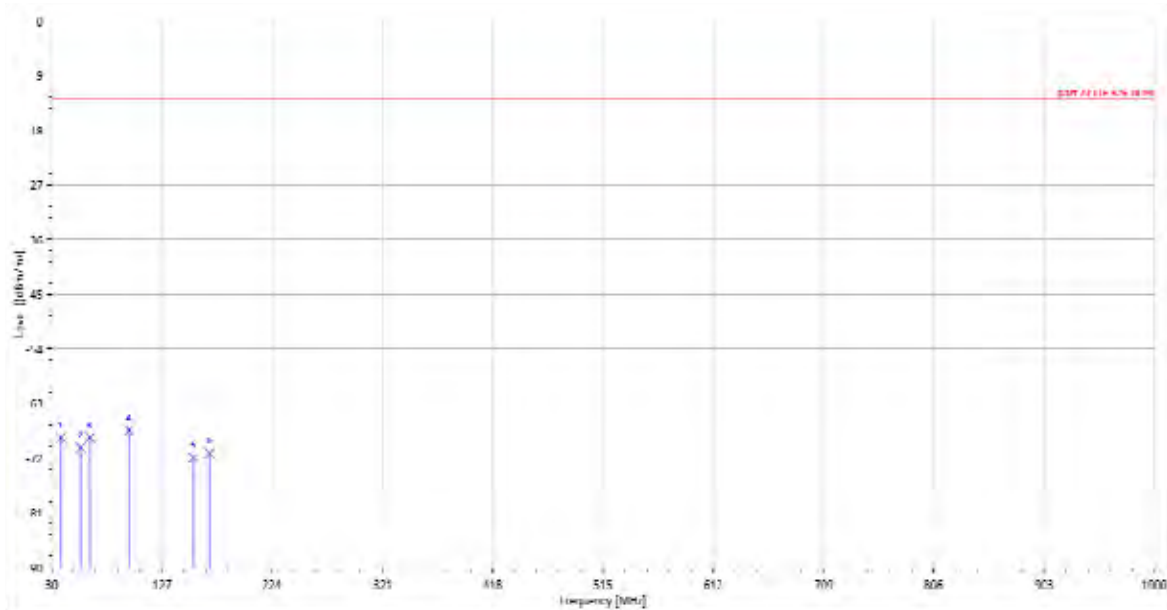
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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



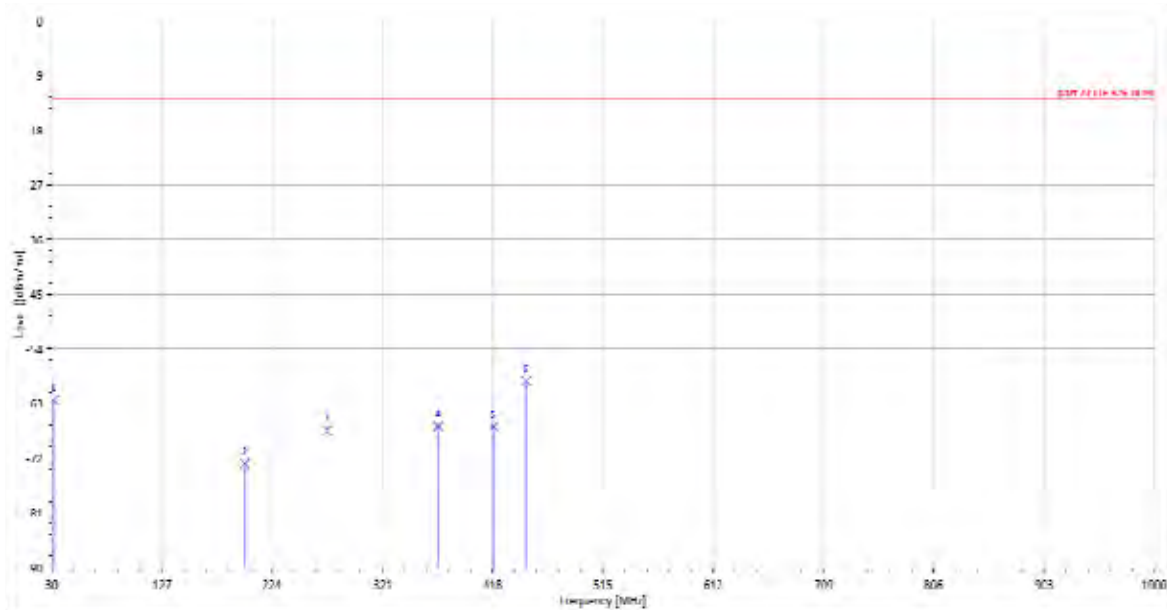
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
38.10	S	-68.65	-52.27	-15.65	-0.73	-13.00	-55.65
55.91	S	-70.25	-64.51	-4.81	-0.93	-13.00	-57.25
64.01	S	-68.64	-64.97	-2.68	-0.99	-13.00	-55.64
98.01	S	-67.41	-63.10	-3.13	-1.19	-13.00	-54.41
154.69	S	-71.93	-71.23	0.78	-1.47	-13.00	-58.93
169.27	S	-71.22	-72.01	2.48	-1.69	-13.00	-58.22

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



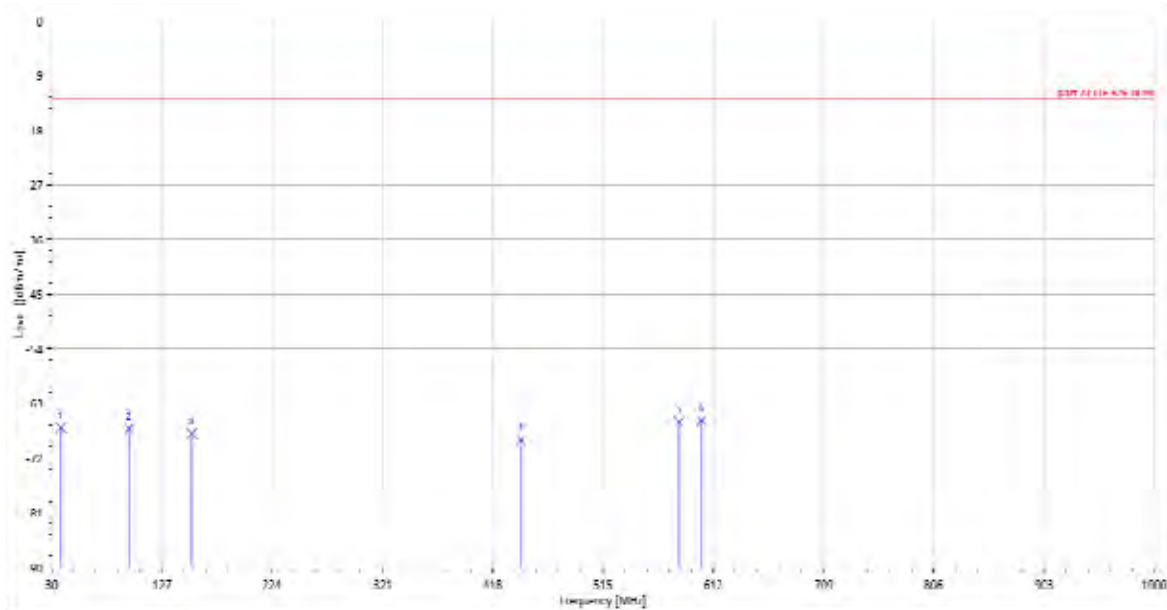
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-62.50	-40.72	-21.09	-0.69	-13.00	-49.50
200.03	S	-72.97	-75.07	3.78	-1.68	-13.00	-59.97
272.90	S	-67.51	-68.68	3.15	-1.98	-13.00	-54.51
370.07	S	-66.78	-67.77	3.34	-2.35	-13.00	-53.78
418.65	S	-66.85	-67.77	3.36	-2.44	-13.00	-53.85
447.80	S	-59.33	-60.38	3.60	-2.55	-13.00	-46.33

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

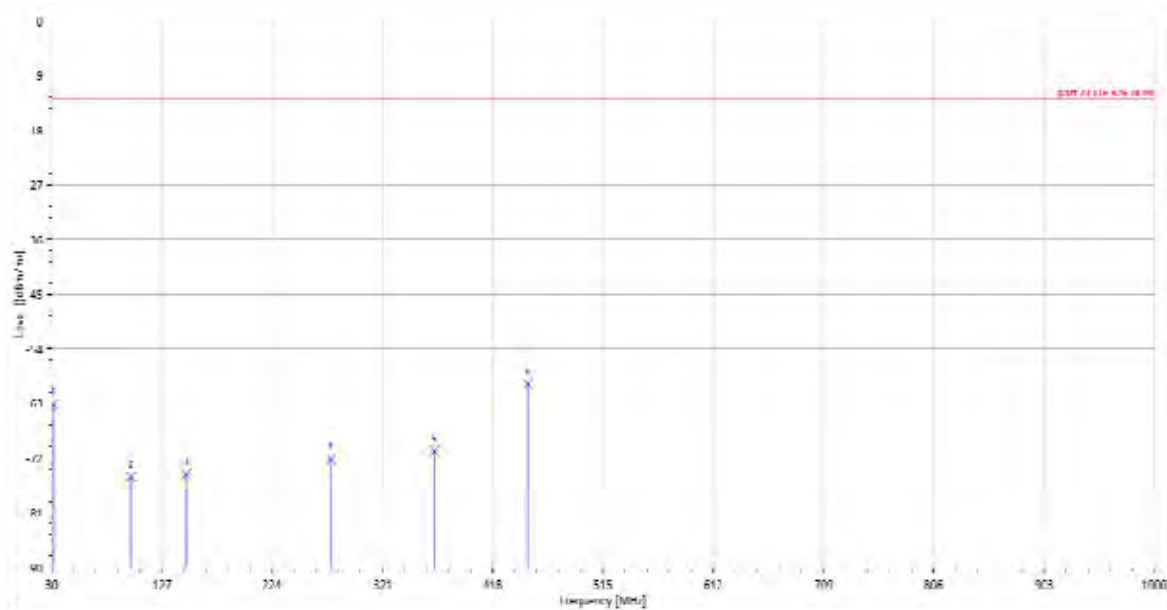


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
38.10	S	-67.01	-50.63	-15.65	-0.73	-13.00	-54.01
98.01	S	-67.19	-62.88	-3.13	-1.19	-13.00	-54.19
153.07	S	-68.00	-67.00	0.61	-1.61	-13.00	-55.00
442.94	S	-69.02	-70.11	3.56	-2.47	-13.00	-56.02
582.20	S	-66.09	-67.37	4.20	-2.91	-13.00	-53.09
601.64	S	-65.80	-67.00	4.33	-3.13	-13.00	-52.80

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.62	S	-63.19	-41.41	-21.09	-0.69	-13.00	-50.19
99.63	S	-75.10	-70.60	-3.30	-1.20	-13.00	-62.10
148.21	S	-74.62	-73.17	0.01	-1.46	-13.00	-61.62
276.14	S	-72.18	-73.37	3.22	-2.03	-13.00	-59.18
366.83	S	-70.86	-71.94	3.36	-2.27	-13.00	-57.86
449.42	S	-59.82	-60.84	3.62	-2.59	-13.00	-46.82

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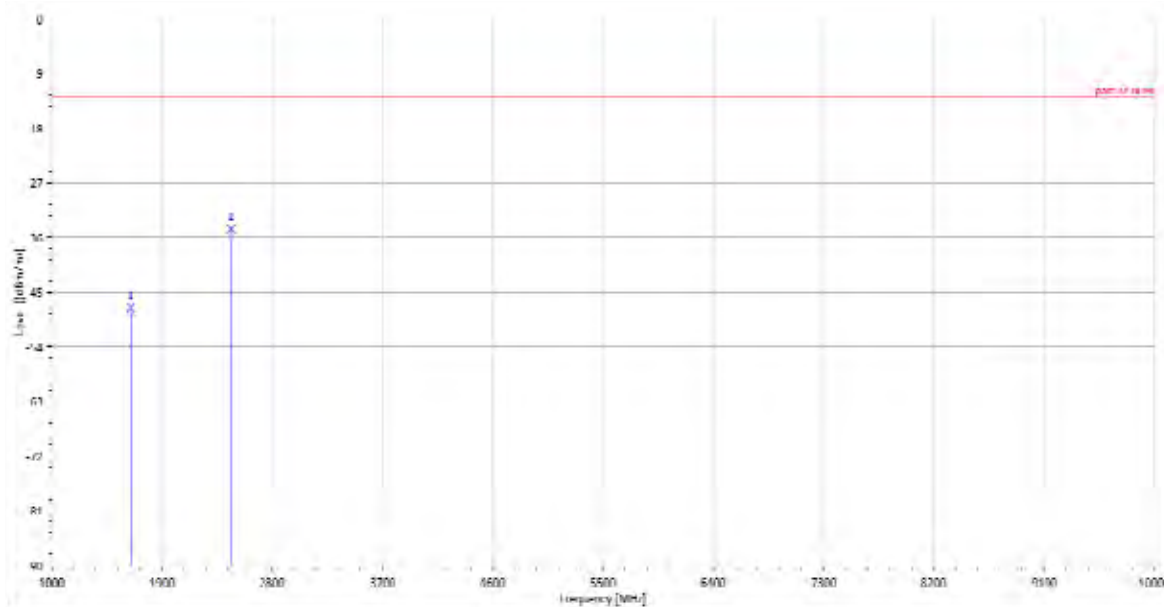
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**10.6. Measurement Result (Above 1GHz):**

**Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

ARFCN	:CH 128	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1648.40	H	-47.56	-46.14	3.69	-5.11	-13.00	-34.56
2472.60	H	-34.61	-32.40	3.60	-5.81	-13.00	-21.61

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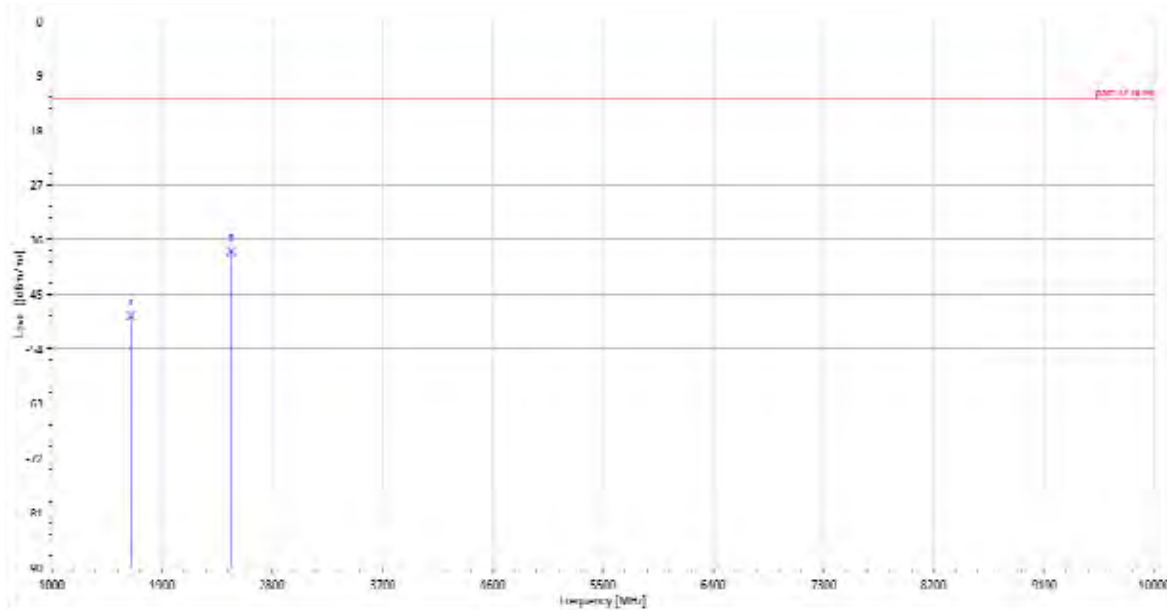
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ARFCN	:CH 128	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

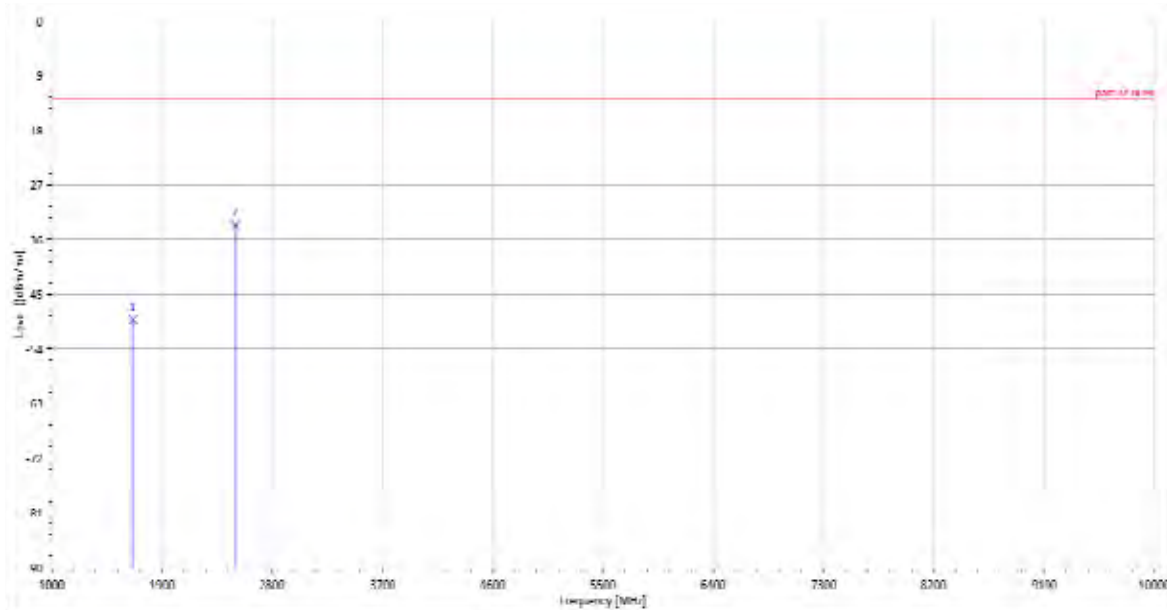


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1648.40	H	-48.51	-47.10	3.69	-5.11	-13.00	-35.51
2472.60	H	-37.97	-35.76	3.60	-5.81	-13.00	-24.97

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ARFCN	:CH 190	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

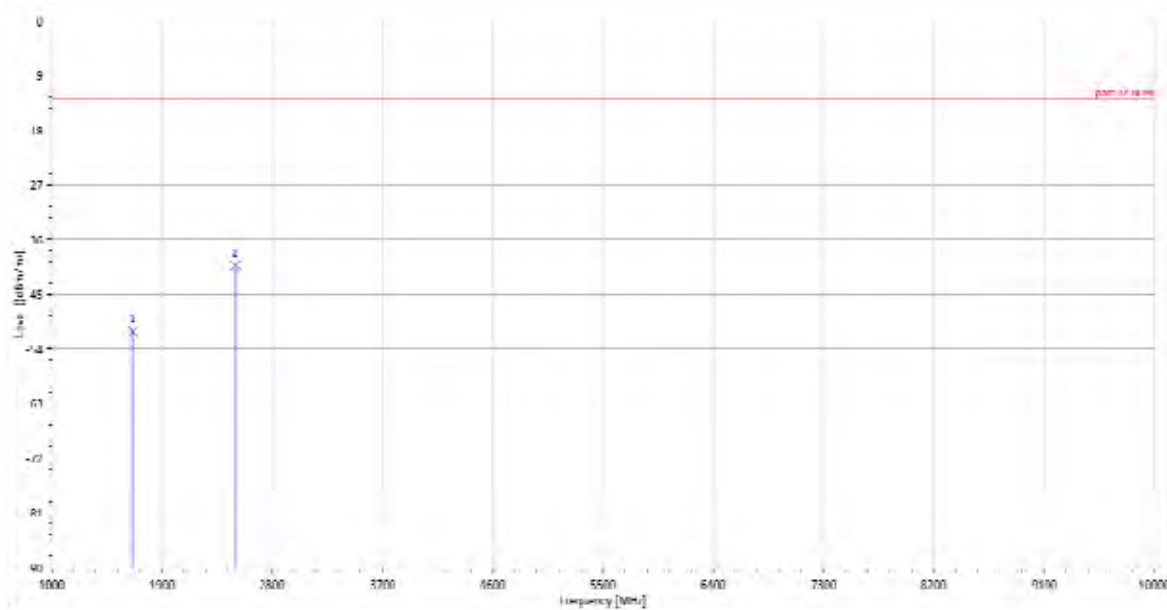


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-49.20	-47.70	3.65	-5.15	-13.00	-36.20
2509.80	H	-33.55	-31.36	3.66	-5.85	-13.00	-20.55

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ARFCN	:CH 190	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



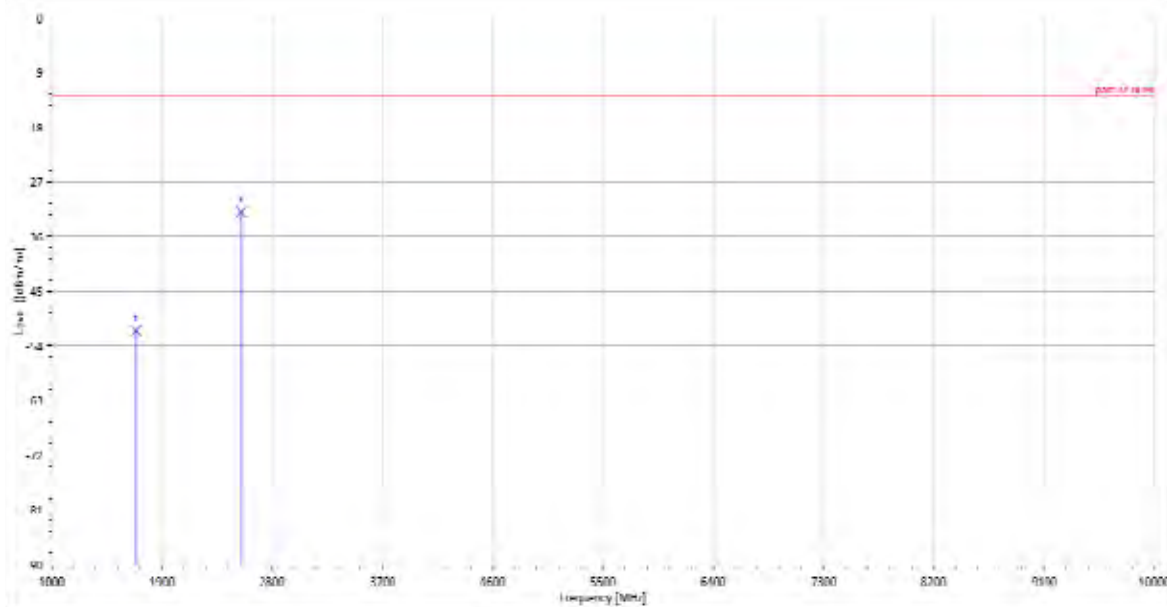
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-51.18	-49.68	3.65	-5.15	-13.00	-38.18
2509.80	H	-40.27	-38.08	3.66	-5.85	-13.00	-27.27

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ARFCN	:CH 251	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

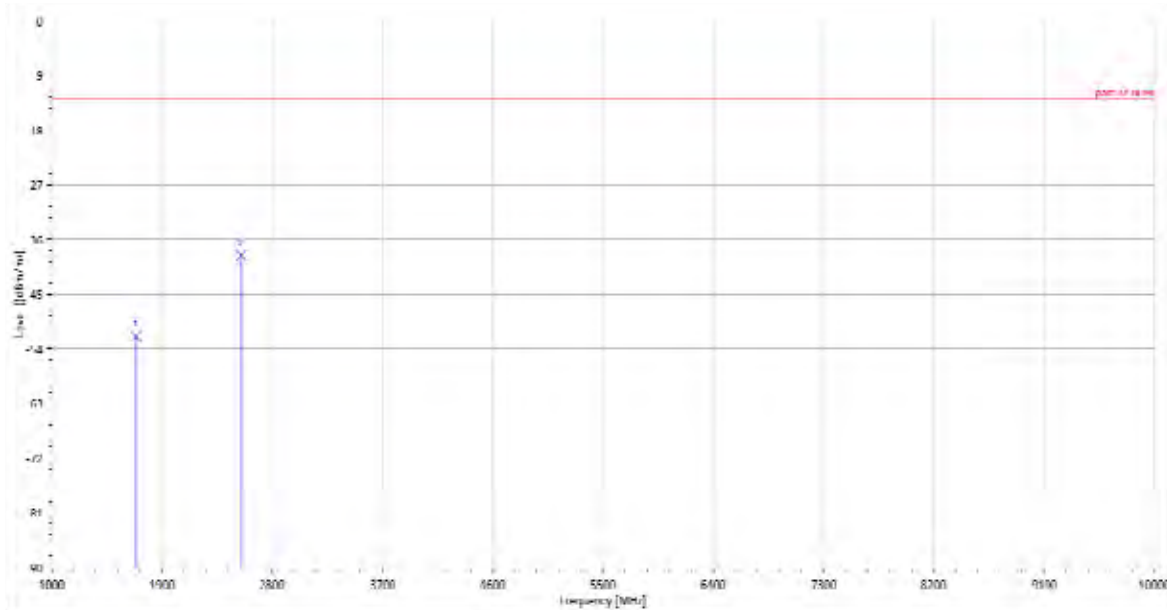


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-51.52	-49.95	3.59	-5.16	-13.00	-38.52
2546.40	H	-32.01	-29.92	3.77	-5.85	-13.00	-19.01

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ARFCN	:CH 251	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



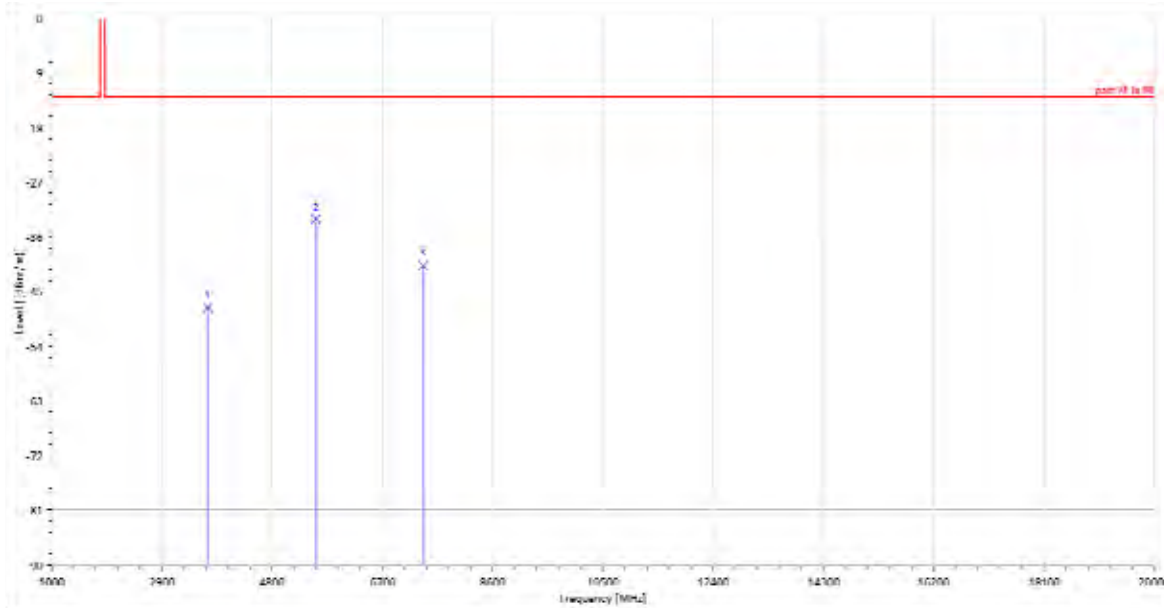
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-51.94	-50.37	3.59	-5.16	-13.00	-38.94
2546.40	H	-38.64	-36.56	3.77	-5.85	-13.00	-25.64

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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

ARFCN	:CH 512	Test Date	:2015-04-22
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3700.40	H	-47.56	-49.31	8.68	-6.93	-13.01	-34.55
5550.60	H	-33.08	-35.63	10.32	-7.77	-13.01	-20.07
7400.80	H	-40.71	-42.67	11.53	-9.57	-13.01	-27.70

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台灣檢驗科技股份有限公司

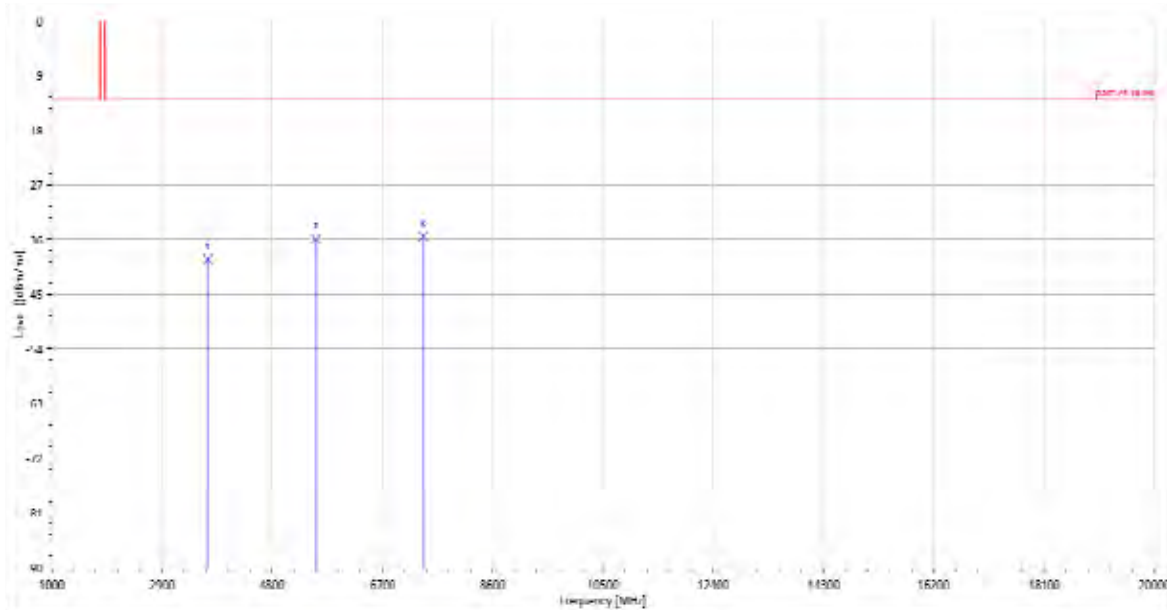
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ARFCN	:CH 512	Test Date	:2015-04-22
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



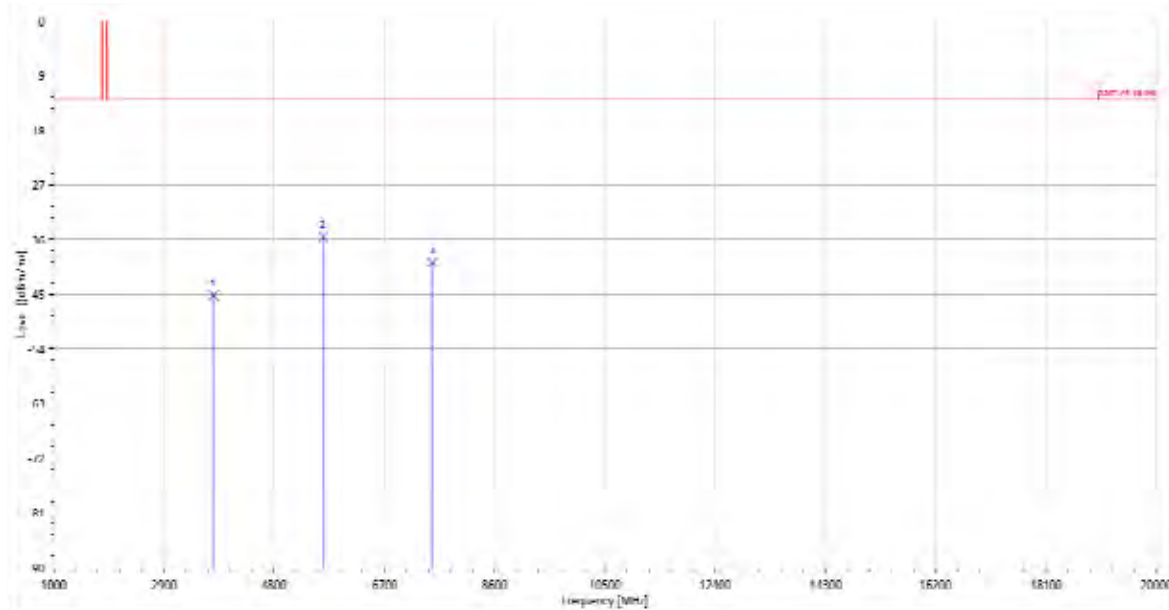
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3700.40	H	-39.24	-40.99	8.68	-6.93	-13.01	-26.23
5550.60	H	-35.90	-38.45	10.32	-7.77	-13.01	-22.89
7400.80	H	-35.50	-37.45	11.53	-9.57	-13.01	-22.49

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ARFCN	:CH 661	Test Date	:2015-04-22
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



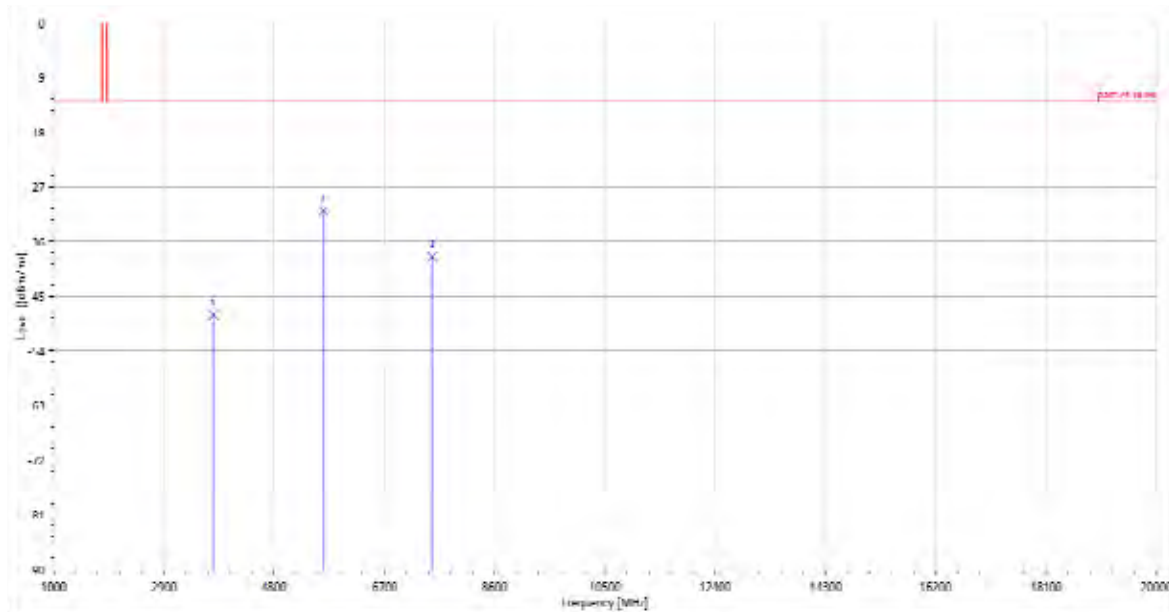
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-45.20	-47.06	8.71	-6.84	-13.01	-32.19
5640.00	H	-35.54	-37.93	10.36	-7.97	-13.01	-22.53
7520.00	H	-39.82	-41.64	11.63	-9.80	-13.01	-26.81

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ARFCN	:CH 661	Test Date	:2015-04-22
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



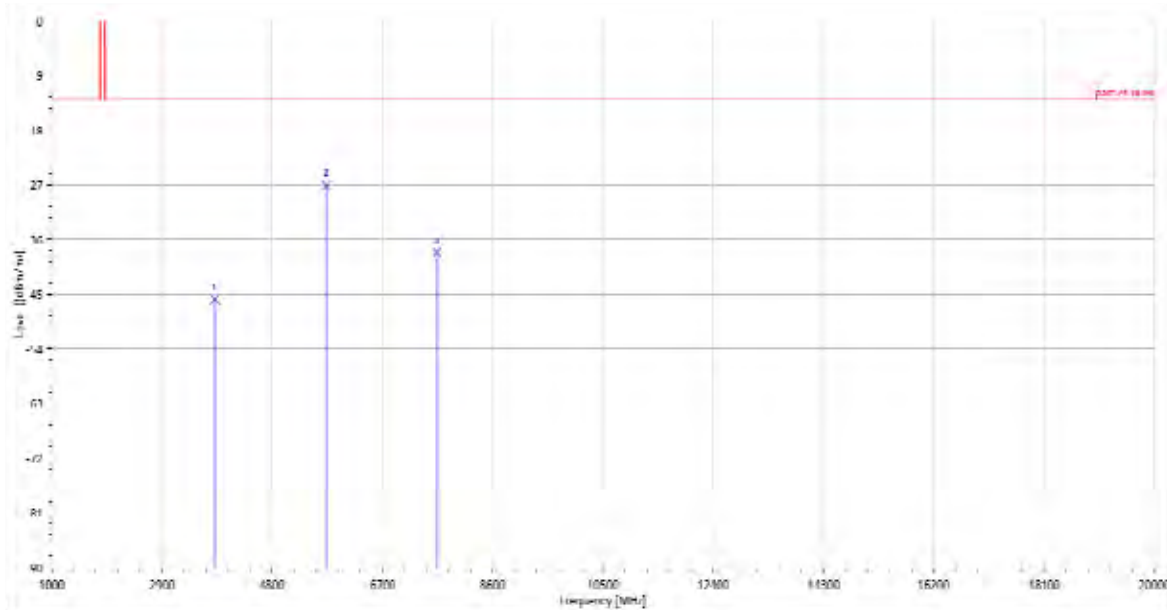
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-48.12	-49.98	8.71	-6.84	-13.01	-35.11
5640.00	H	-30.99	-33.38	10.36	-7.97	-13.01	-17.98
7520.00	H	-38.54	-40.37	11.63	-9.80	-13.01	-25.53

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ARFCN	:CH 810	Test Date	:2015-04-22
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



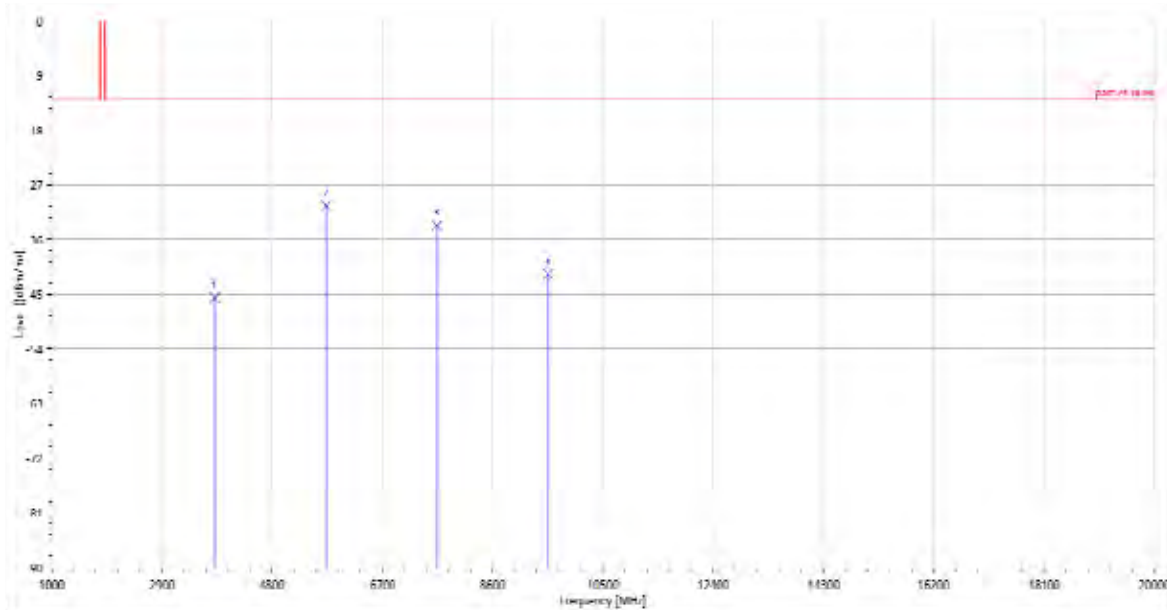
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-45.84	-47.65	8.73	-6.92	-13.01	-32.83
5729.40	H	-27.10	-29.31	10.39	-8.19	-13.01	-14.09
7639.20	H	-38.17	-39.95	11.74	-9.97	-13.01	-25.16

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ARFCN	:CH 810	Test Date	:2015-04-22
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-45.57	-47.37	8.73	-6.92	-13.01	-32.56
5729.40	H	-30.43	-32.64	10.39	-8.19	-13.01	-17.42
7639.20	H	-33.69	-35.46	11.74	-9.97	-13.01	-20.68
9549.00	H	-41.73	-43.69	13.01	-11.04	-13.01	-28.72

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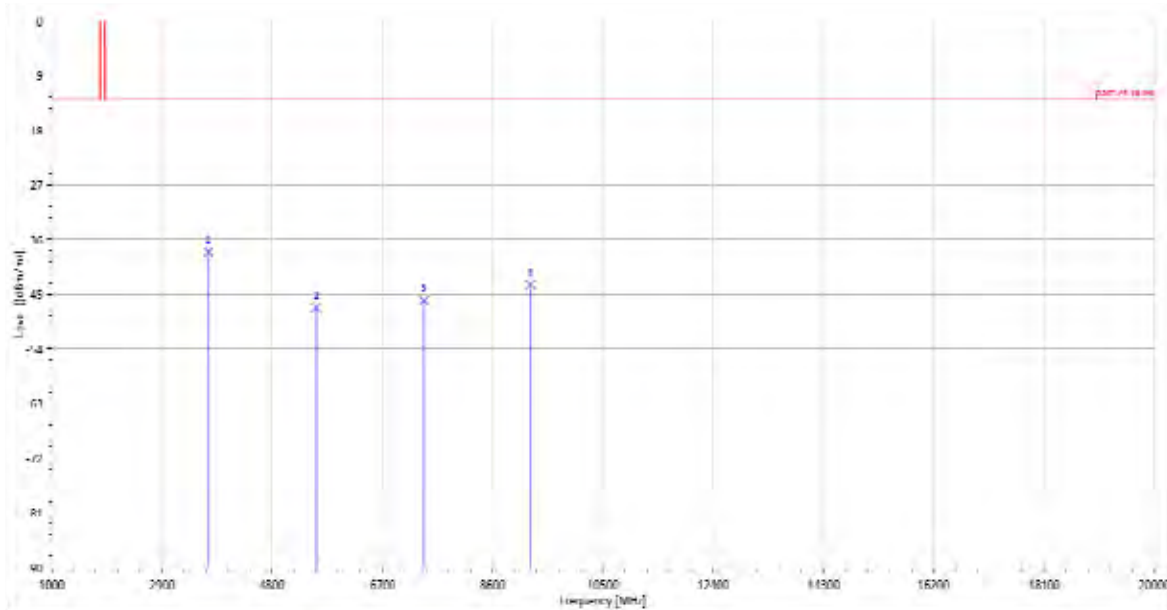
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**Radiated Spurious Emission Measurement Result: WCDMA II Mode**

ARFCN	:CH 9262	Test Date	:2015-04-22
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

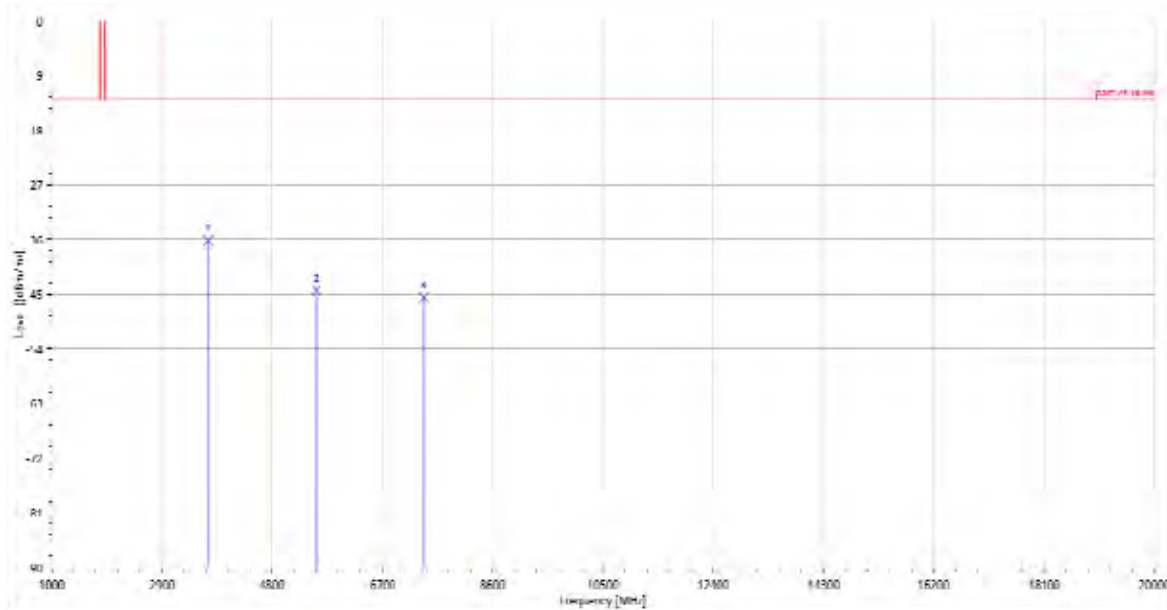


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3704.80	H	-38.09	-39.86	8.68	-6.91	-13.01	-25.08
5557.20	H	-47.27	-49.83	10.33	-7.77	-13.01	-34.26
7409.60	H	-46.07	-48.02	11.53	-9.59	-13.01	-33.06
9262.00	H	-43.42	-45.38	13.00	-11.04	-13.01	-30.41

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ARFCN	:CH 9262	Test Date	:2015-04-22
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

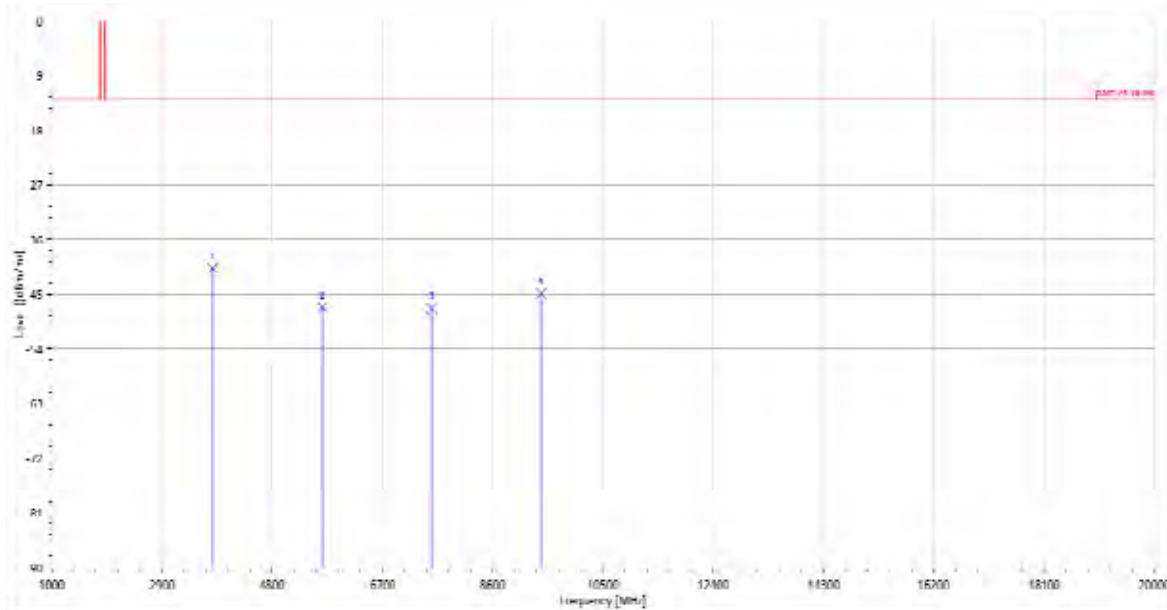


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3704.80	H	-36.18	-37.95	8.68	-6.91	-13.01	-23.17
5557.20	H	-44.37	-46.93	10.33	-7.77	-13.01	-31.36
7409.60	H	-45.55	-47.50	11.53	-9.59	-13.01	-32.54

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ARFCN	:CH 9400	Test Date	:2015-04-22
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



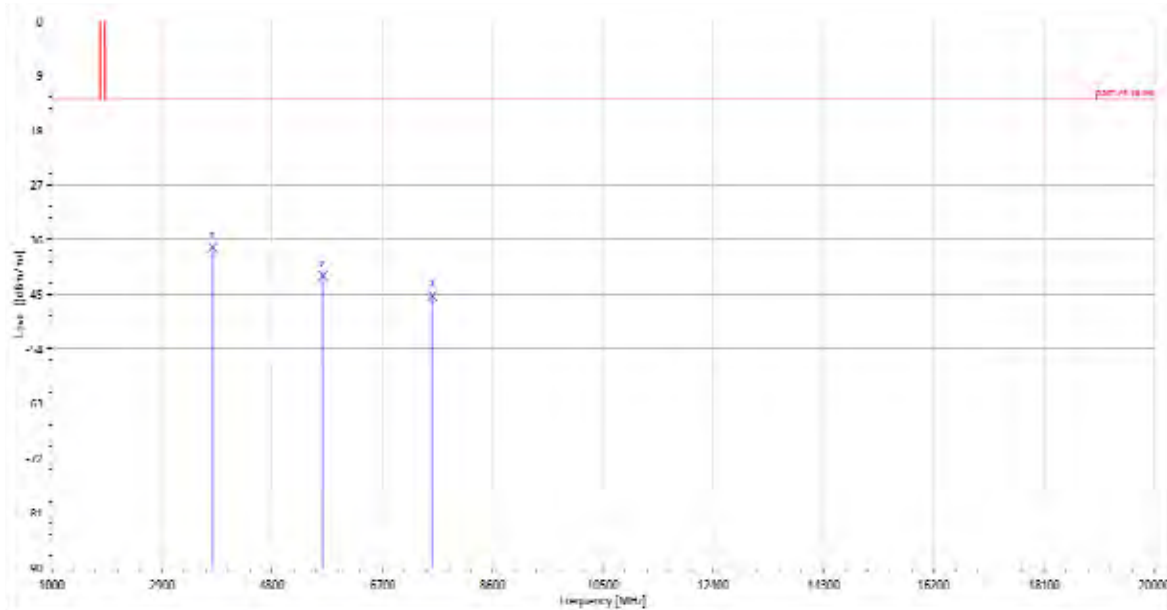
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-40.81	-42.60	8.71	-6.93	-13.01	-27.80
5640.00	H	-47.21	-49.54	10.36	-8.03	-13.01	-34.20
7520.00	H	-47.38	-49.21	11.65	-9.82	-13.01	-34.37
9400.00	H	-44.91	-46.93	13.00	-10.97	-13.01	-31.90

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ARFCN	:CH 9400	Test Date	:2015-04-22
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



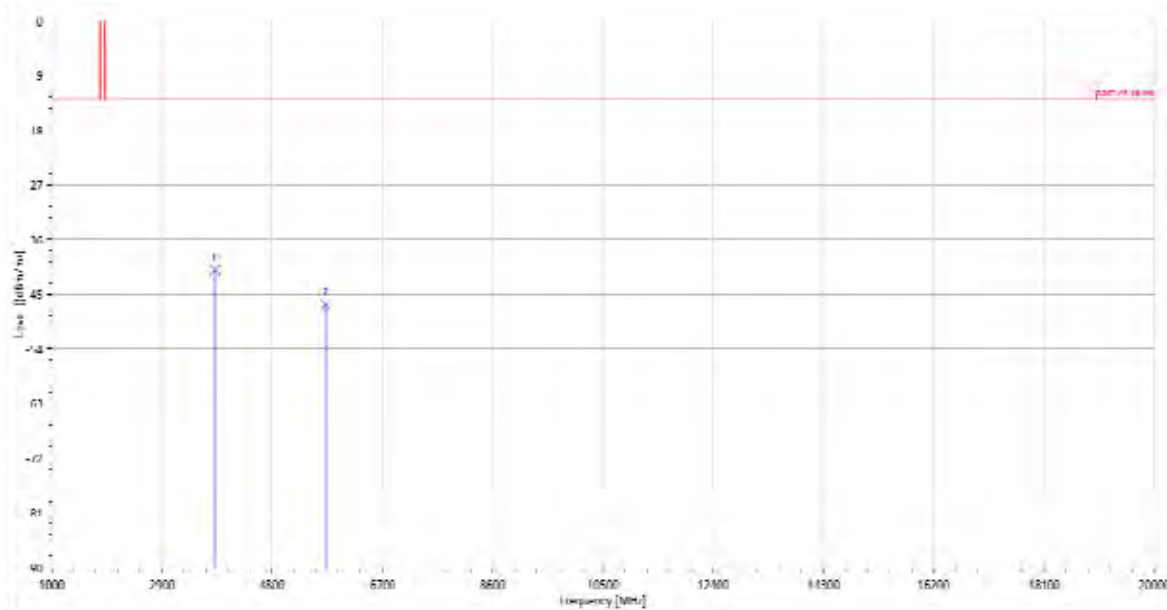
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-37.31	-39.10	8.71	-6.93	-13.01	-24.30
5640.00	H	-41.93	-44.26	10.36	-8.03	-13.01	-28.92
7520.00	H	-45.15	-46.98	11.65	-9.82	-13.01	-32.14

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ARFCN	:CH 9538	Test Date	:2015-04-22
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

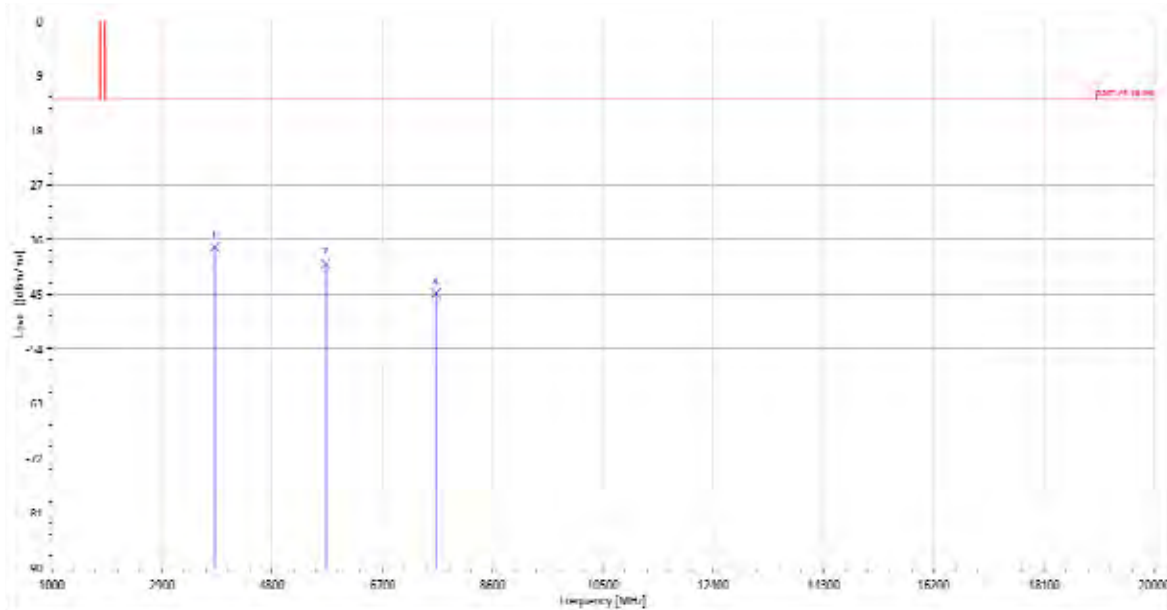


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-41.04	-42.84	8.73	-6.92	-13.01	-28.03
5722.80	H	-46.76	-48.95	10.39	-8.20	-13.01	-33.75

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ARFCN	:CH 9538	Test Date	:2015-04-22
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-37.28	-39.09	8.73	-6.92	-13.01	-24.27
5722.80	H	-40.04	-42.23	10.39	-8.20	-13.01	-27.03
7630.40	H	-44.89	-46.70	11.72	-9.91	-13.01	-31.88

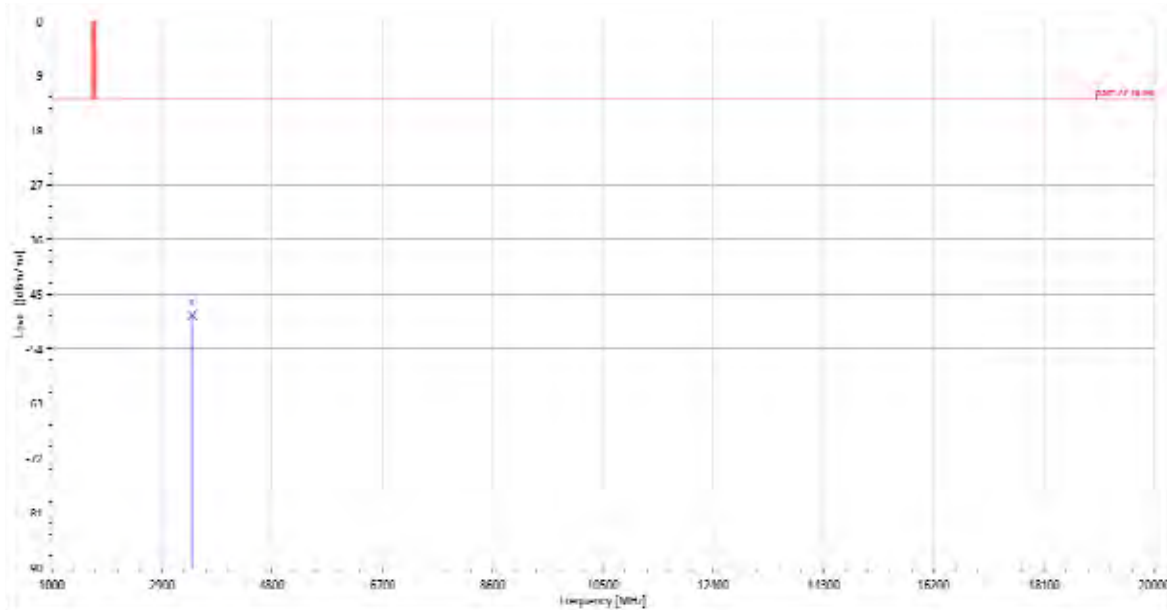
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**Radiated Spurious Emission Measurement Result: WCDMA IV Mode**

ARFCN	:CH 1312	Test Date	:2015-04-22
Operation Band	:WCDMA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



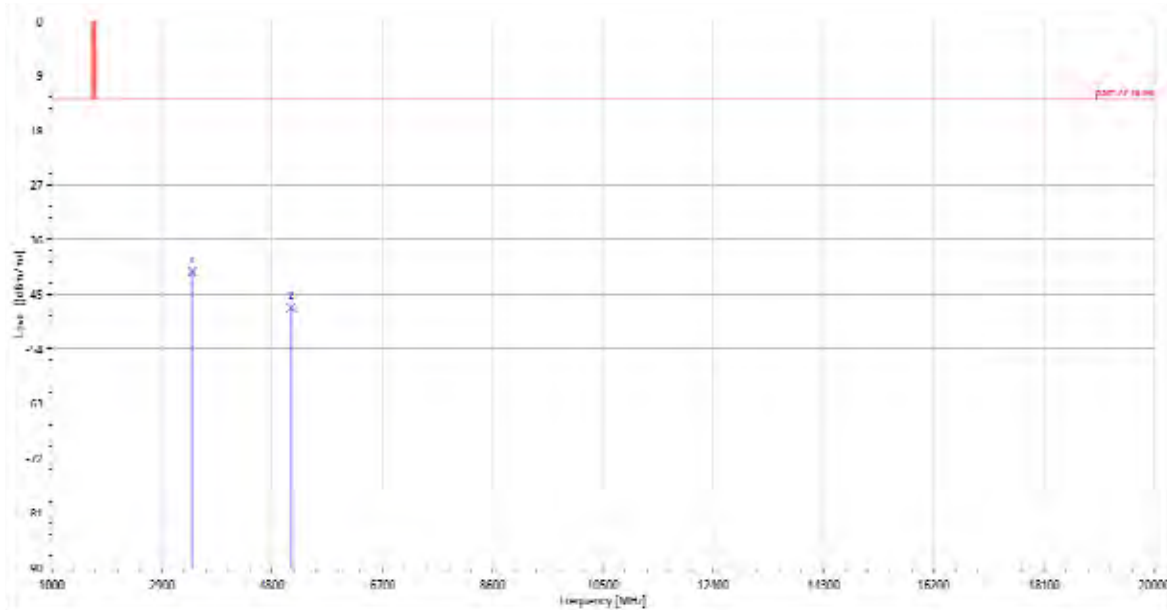
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3424.80	H	-48.44	-50.13	8.35	-6.66	-13.01	-35.43

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ARFCN	:CH 1312	Test Date	:2015-04-22
Operation Band	:WCDMA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3424.80	H	-41.33	-43.02	8.35	-6.66	-13.01	-28.32
5137.20	H	-47.26	-49.90	10.08	-7.44	-13.01	-34.25

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t (886-2) 2299-3279

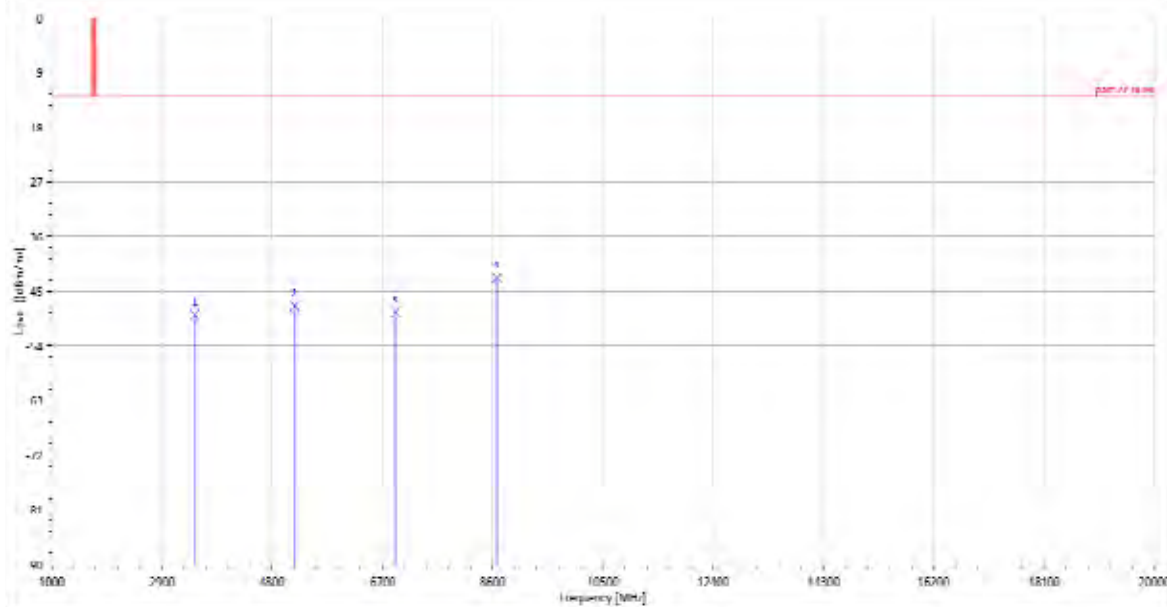
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ARFCN	:CH 1413	Test Date	:2015-04-22
Operation Band	:WCDMA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

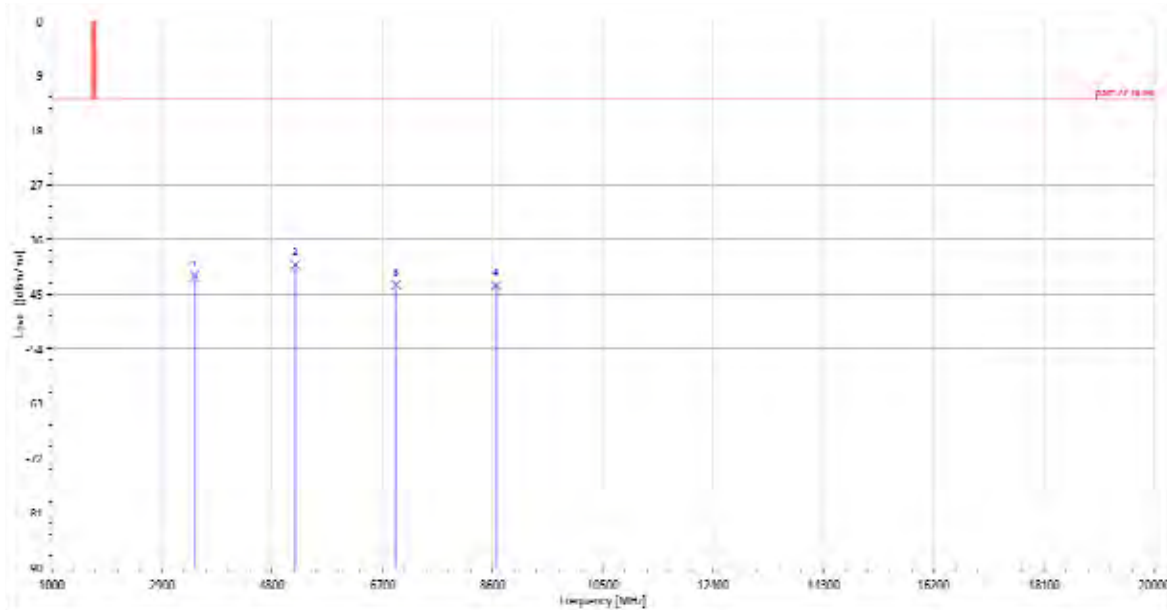


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3465.20	H	-48.88	-50.74	8.49	-6.63	-13.01	-35.87
5197.80	H	-47.47	-50.39	10.12	-7.19	-13.01	-34.46
6930.40	H	-48.45	-50.10	11.13	-9.48	-13.01	-35.44
8663.00	H	-42.78	-44.99	12.94	-10.73	-13.01	-29.77

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ARFCN	:CH 1413	Test Date	:2015-04-22
Operation Band	:WCDMA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



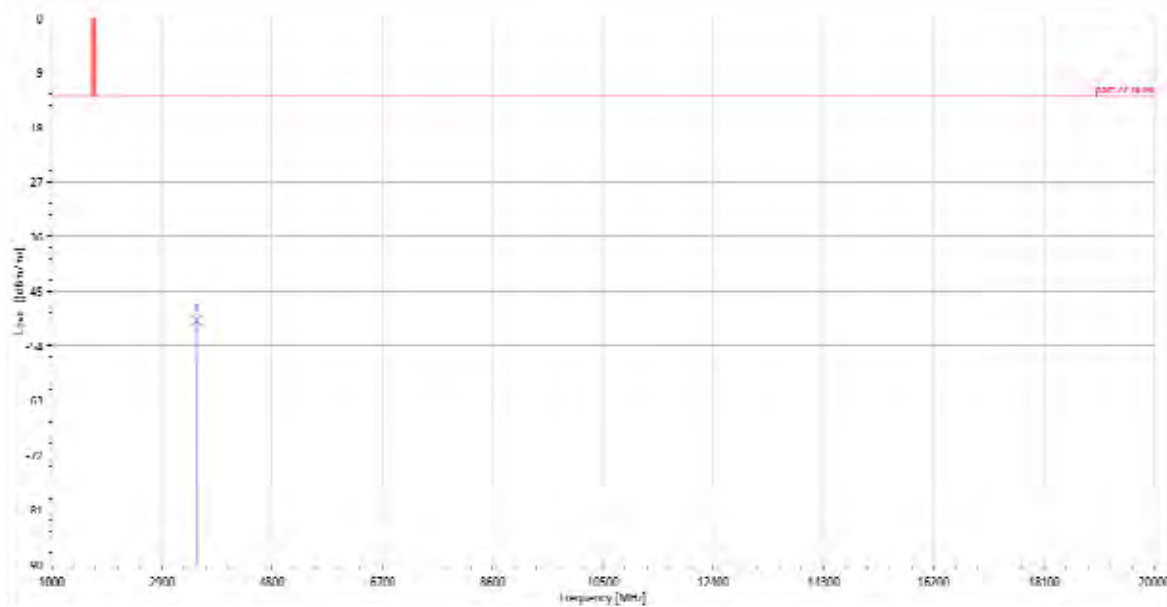
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3465.20	H	-42.04	-43.90	8.49	-6.63	-13.01	-29.03
5197.80	H	-40.17	-43.08	10.12	-7.21	-13.01	-27.16
6930.40	H	-43.46	-45.19	11.14	-9.41	-13.01	-30.45
8663.00	H	-43.61	-45.89	12.93	-10.66	-13.01	-30.60

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ARFCN	:CH 1513	Test Date	:2015-04-22
Operation Band	:WCDMA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



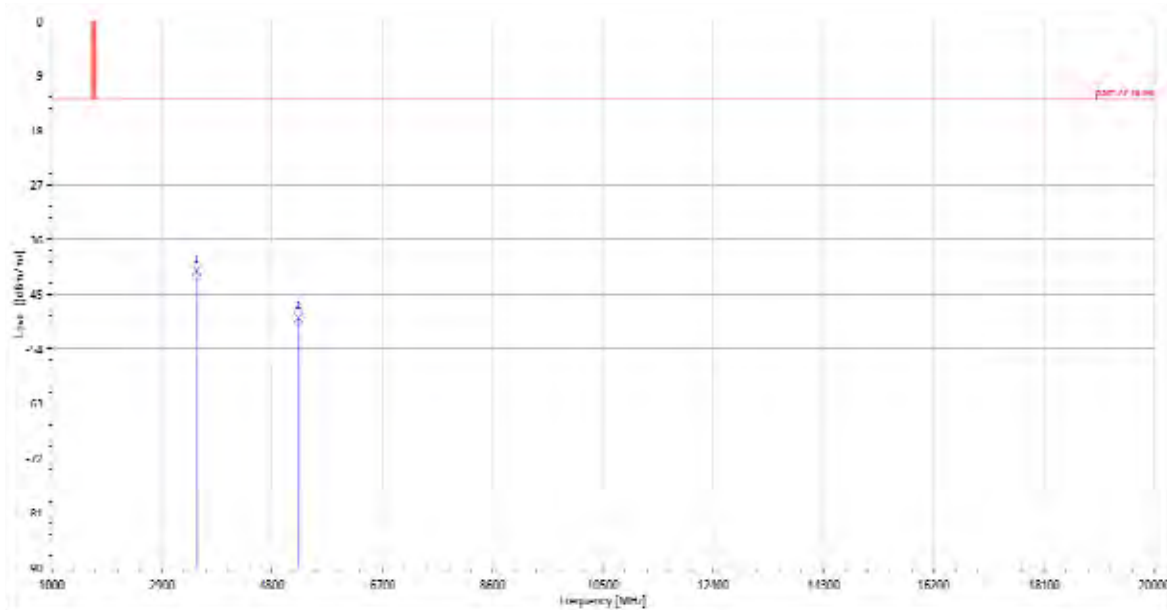
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3505.20	H	-49.93	-51.76	8.60	-6.76	-13.01	-36.92

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ARFCN	:CH 1513	Test Date	:2015-04-22
Operation Band	:WCDMA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



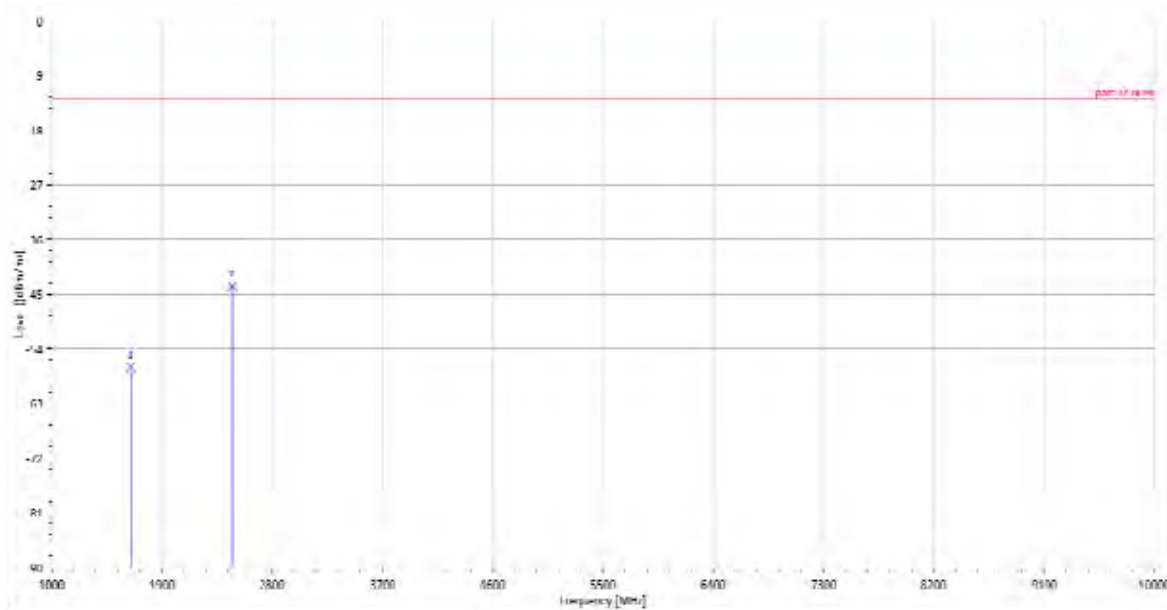
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3505.20	H	-41.16	-43.00	8.60	-6.76	-13.01	-28.15
5257.80	H	-48.88	-51.72	10.15	-7.32	-13.01	-35.87

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**Radiated Spurious Emission Measurement Result: HSUPA V Mode**

ARFCN	:CH 4132	Test Date	:2015-04-22
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

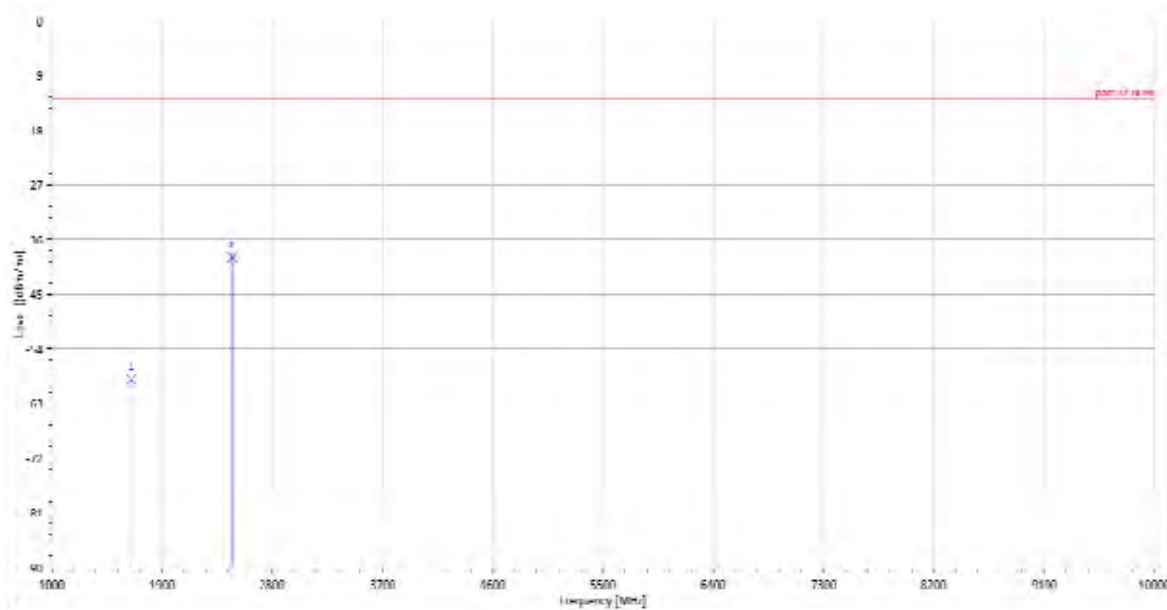


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1652.80	H	-57.05	-55.61	3.68	-5.12	-13	-44.05
2479.20	H	-43.73	-41.51	3.61	-5.83	-13.00	-30.73

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ARFCN	:CH 4132	Test Date	:2015-04-22
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

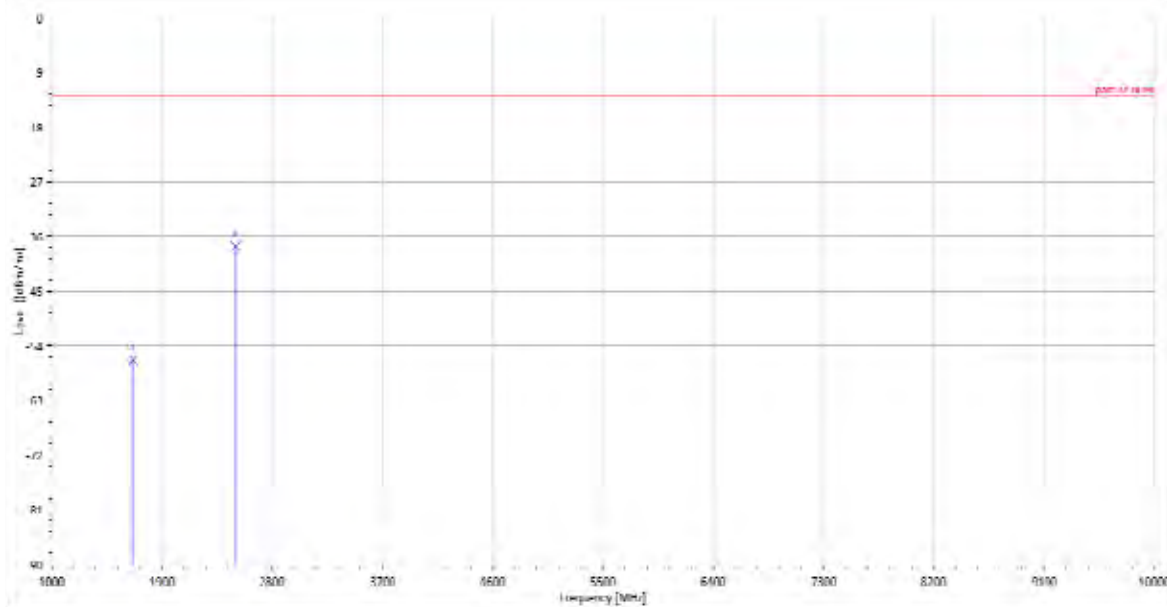


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1652.80	H	-59.06	-57.62	3.68	-5.12	-13.00	-46.06
2479.20	H	-38.91	-36.69	3.61	-5.83	-13.00	-25.91

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ARFCN	:CH 4183	Test Date	:2015-04-22
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

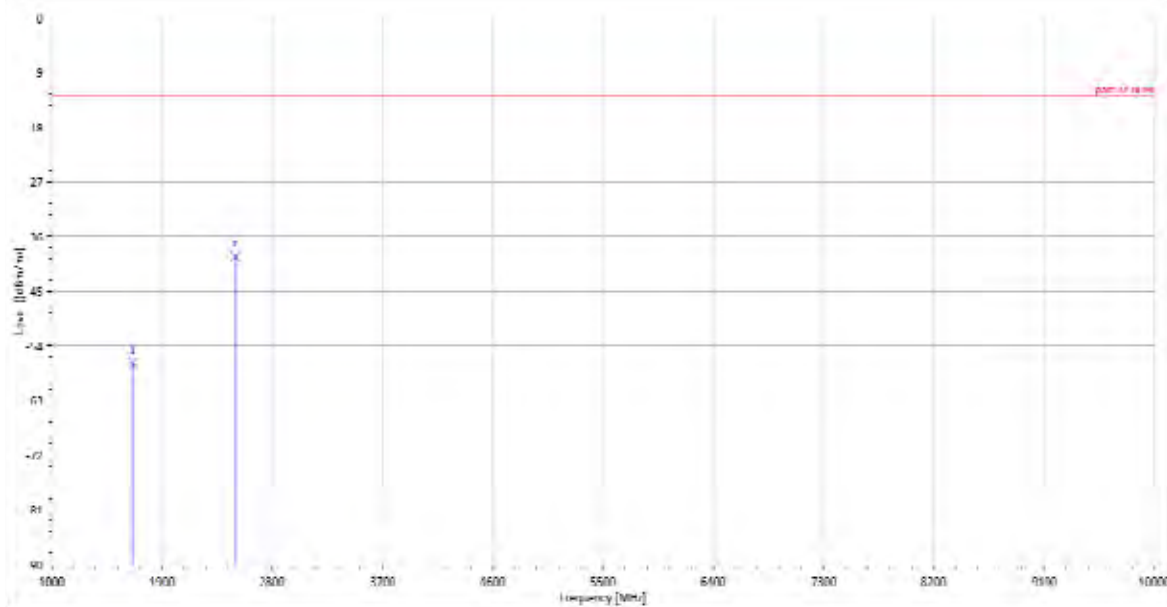


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-56.37	-54.87	3.65	-5.15	-13.00	-43.37
2509.80	H	-37.67	-35.48	3.66	-5.85	-13.00	-24.67

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ARFCN	:CH 4183	Test Date	:2015-04-22
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



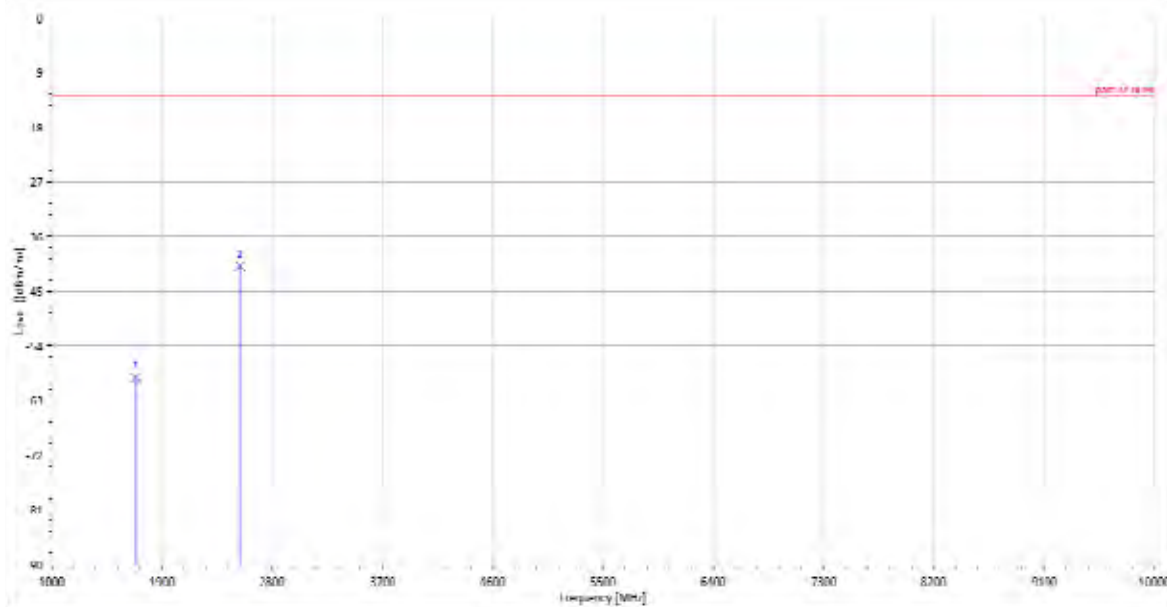
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-56.80	-55.30	3.65	-5.15	-13.00	-43.80
2509.80	H	-39.32	-37.13	3.66	-5.85	-13.00	-26.32

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ARFCN	:CH 4233	Test Date	:2015-04-22
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

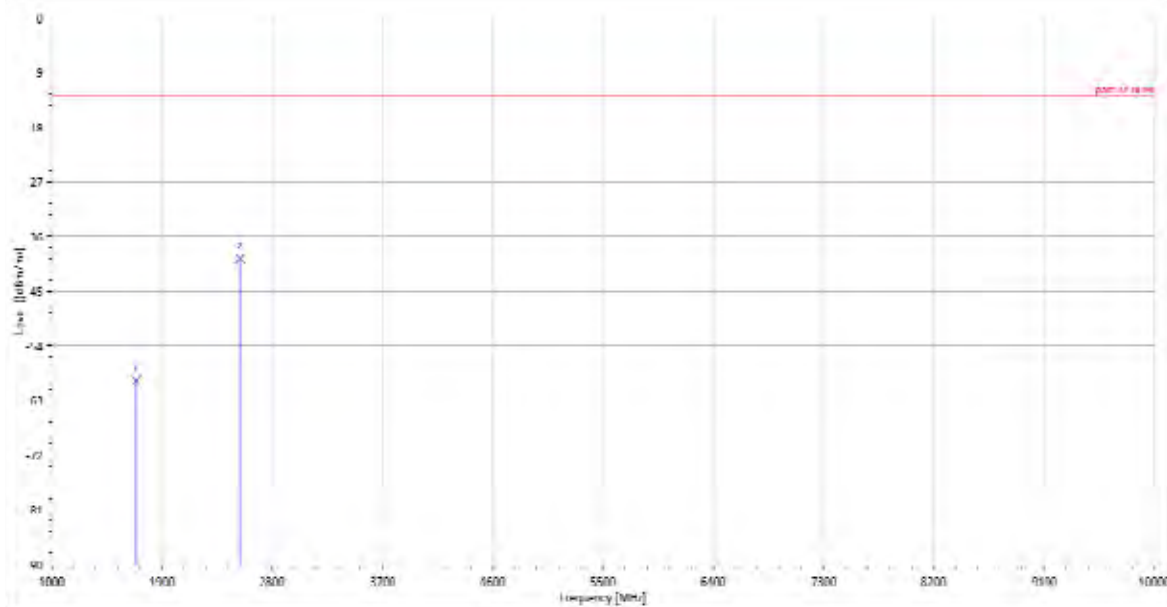


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-59.24	-57.67	3.59	-5.16	-13.00	-46.24
2539.80	H	-40.93	-38.83	3.74	-5.85	-13.00	-27.93

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ARFCN	:CH 4233	Test Date	:2015-04-22
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



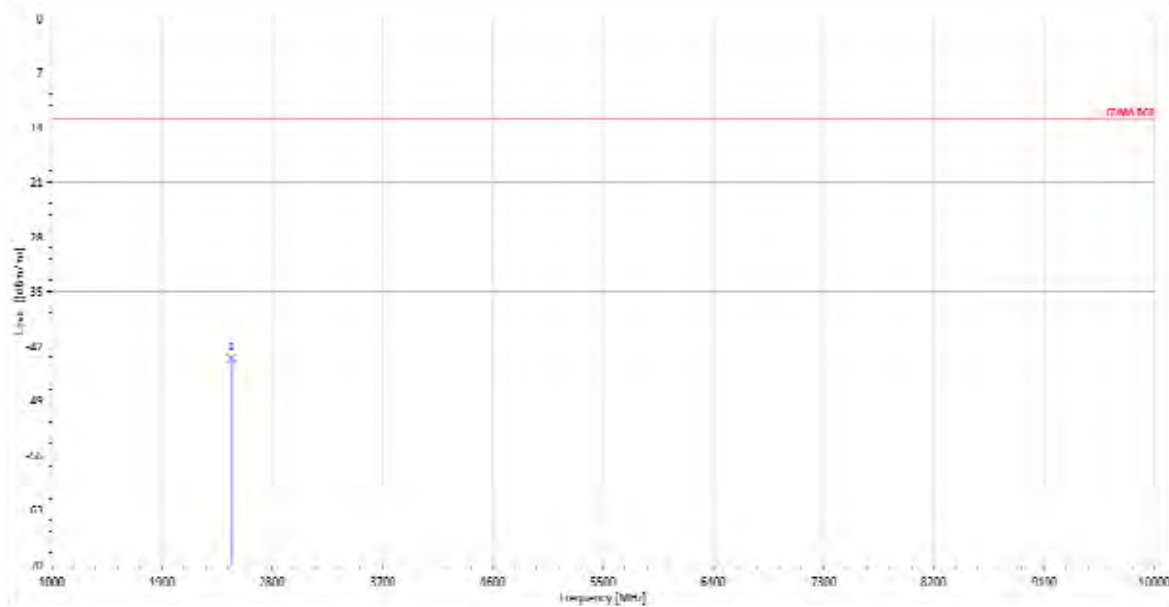
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-59.81	-58.24	3.59	-5.16	-13.00	-46.81
2539.80	H	-39.62	-37.51	3.74	-5.85	-13.00	-26.62

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**Radiated Spurious Emission Measurement Result: CDMA BC0 Mode**

ARFCN	:CH 1013	Test Date	:2015-04-24
Operation Band	:CDMA 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



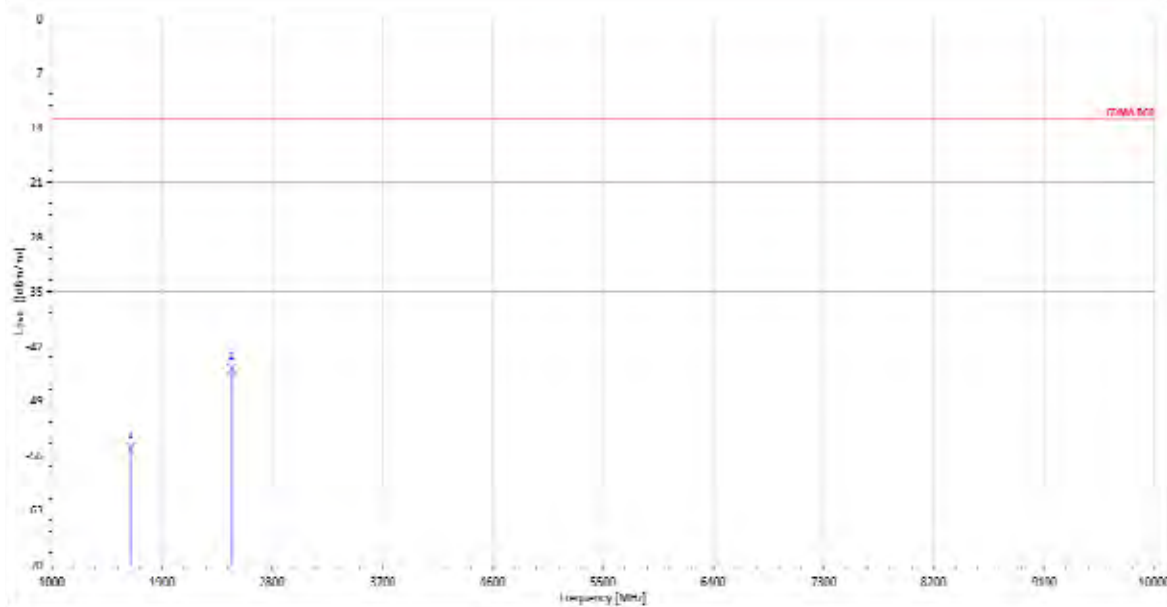
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
2474.10	H	-43.59	-41.37	3.61	-5.82	-13.00	-30.59

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ARFCN	:CH 1013	Test Date	:2015-04-24
Operation Band	:CDMA 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

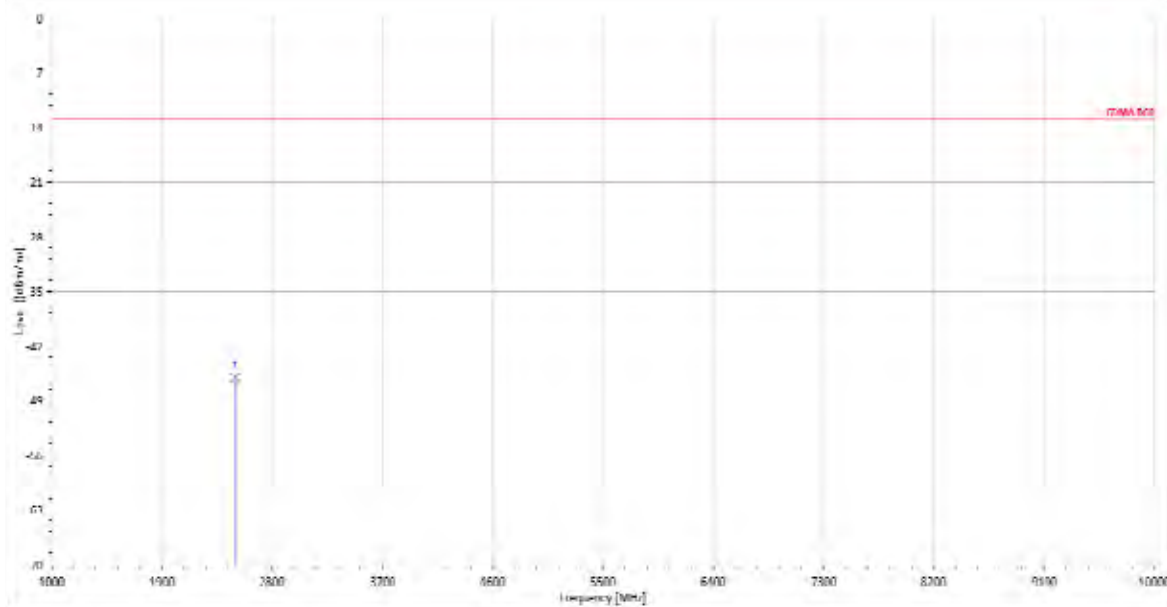


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1649.40	H	-55.07	-53.67	3.70	-5.10	-13.00	-42.07
2474.10	H	-44.90	-42.68	3.61	-5.82	-13.00	-31.90

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ARFCN	:CH 384	Test Date	:2015-04-24
Operation Band	:CDMA 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



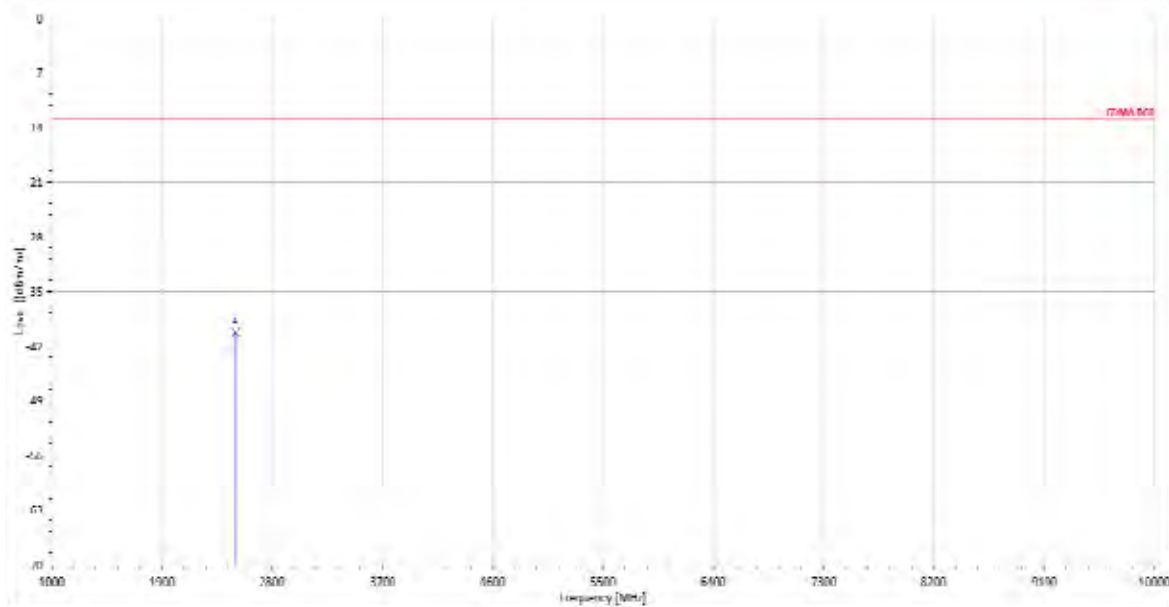
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
2509.56	H	-46.07	-43.87	3.66	-5.85	-13.00	-33.07

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ARFCN	:CH 384	Test Date	:2015-04-24
Operation Band	:CDMA 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



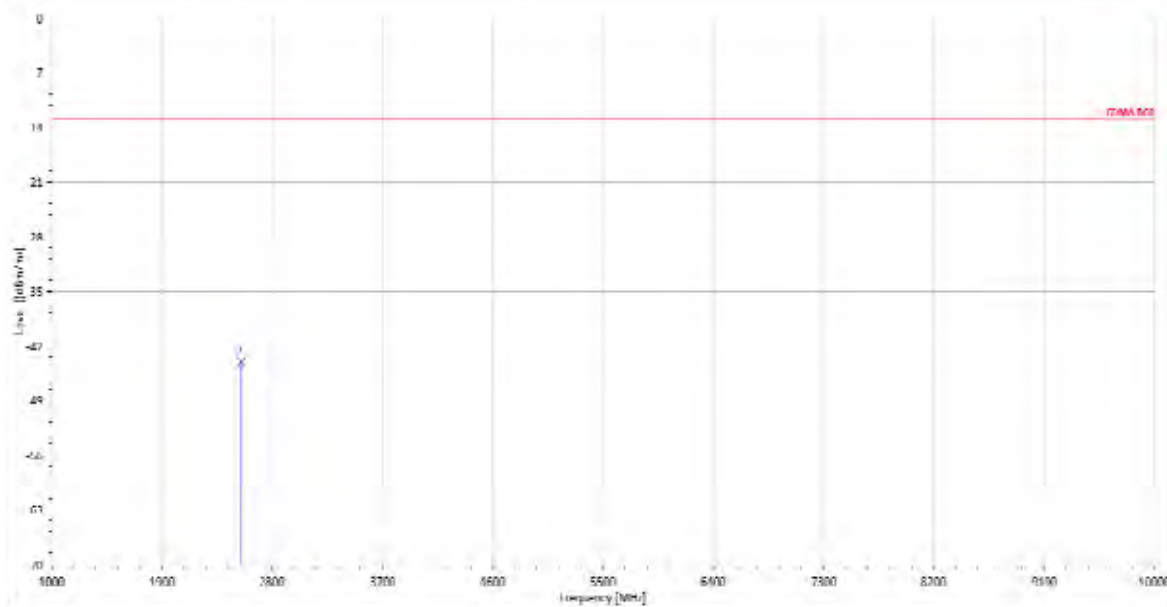
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
2509.56	H	-40.29	-38.09	3.66	-5.85	-13.00	-27.29

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ARFCN	:CH 777	Test Date	:2015-04-24
Operation Band	:CDMA 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



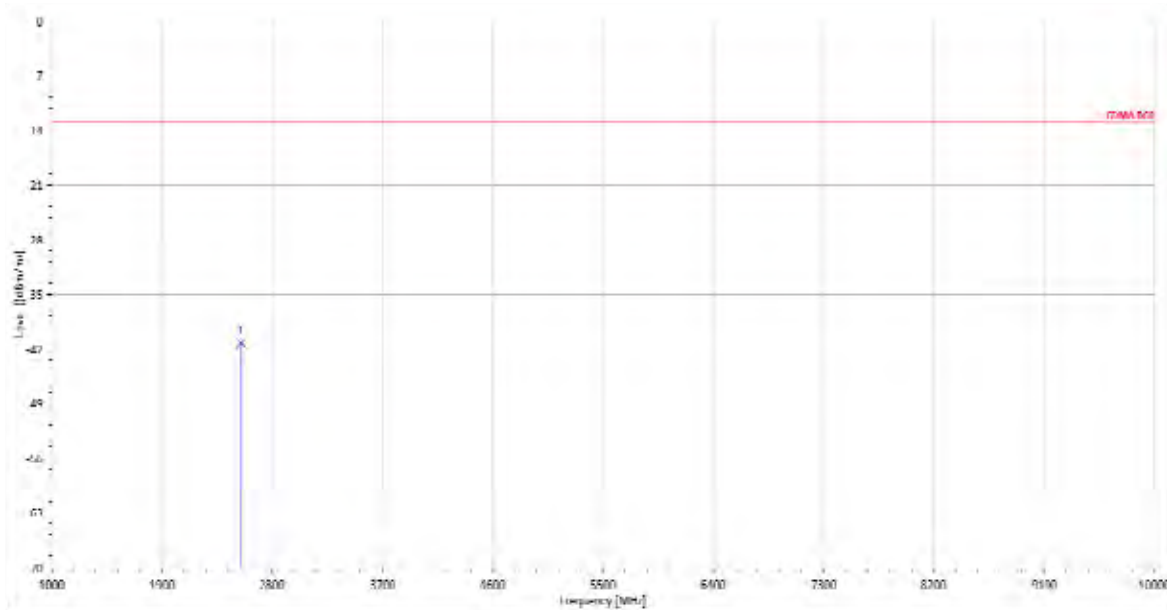
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
2544.93	H	-44.07	-41.98	3.76	-5.85	-13.00	-31.07

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ARFCN	:CH 777	Test Date	:2015-04-24
Operation Band	:CDMA 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
2544.93	H	-41.29	-39.21	3.76	-5.85	-13.00	-28.29

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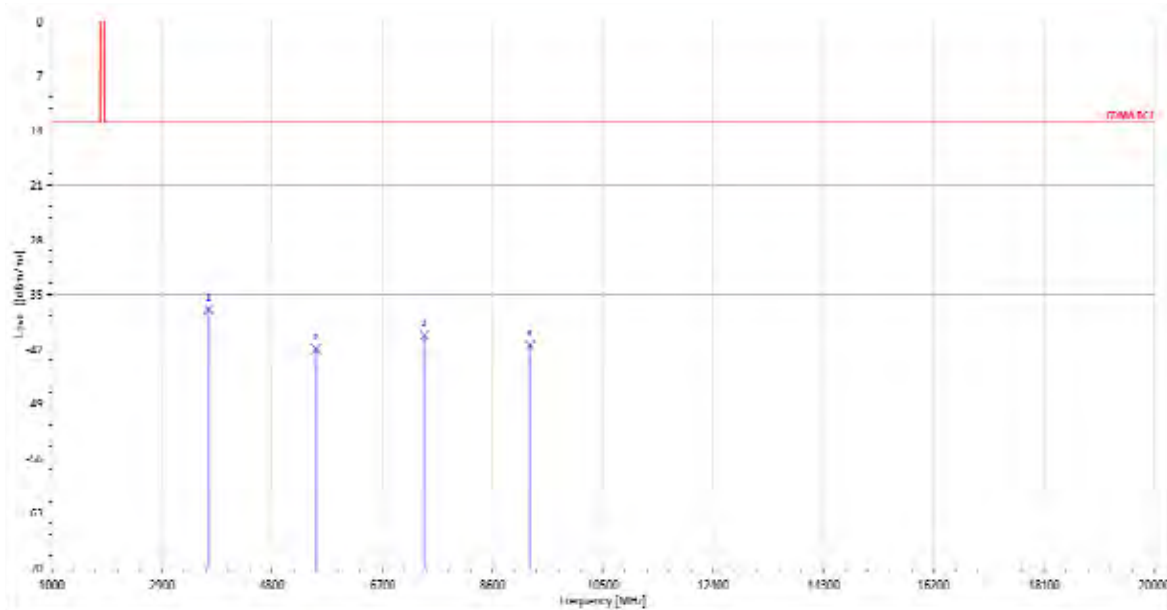
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**Radiated Spurious Emission Measurement Result: CDMA BC1 Mode**

ARFCN	:CH 25	Test Date	:2015-04-24
Operation Band	:CDMA 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



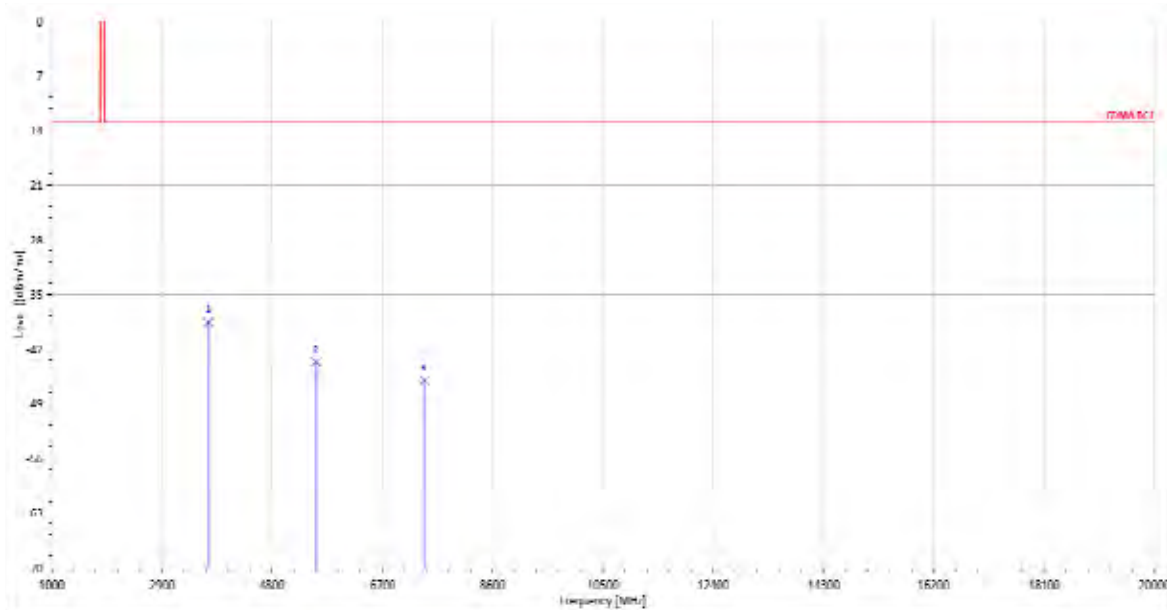
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3702.77	H	-36.94	-37.27	8.68	-8.35	-13.00	-23.94
5554.29	H	-42.07	-42.88	10.32	-9.51	-13.00	-29.07
7405.81	H	-40.25	-40.30	11.54	-11.49	-13.00	-27.25
9257.33	H	-41.59	-41.63	13.00	-12.96	-13.00	-28.59

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ARFCN	:CH 25	Test Date	:2015-04-24
Operation Band	:CDMA 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



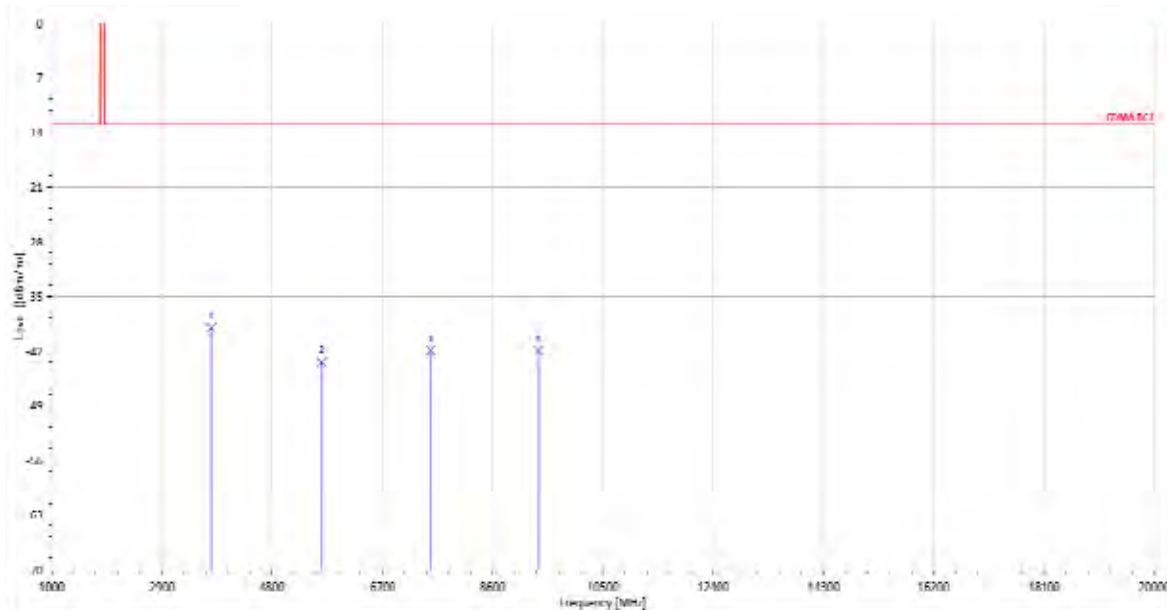
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3702.77	H	-38.61	-38.94	8.68	-8.35	-13.00	-25.61
5554.29	H	-43.73	-44.54	10.32	-9.51	-13.00	-30.73
7405.81	H	-46.06	-46.11	11.54	-11.49	-13.00	-33.06

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ARFCN	:CH 600	Test Date	:2015-04-24
Operation Band	:CDMA 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



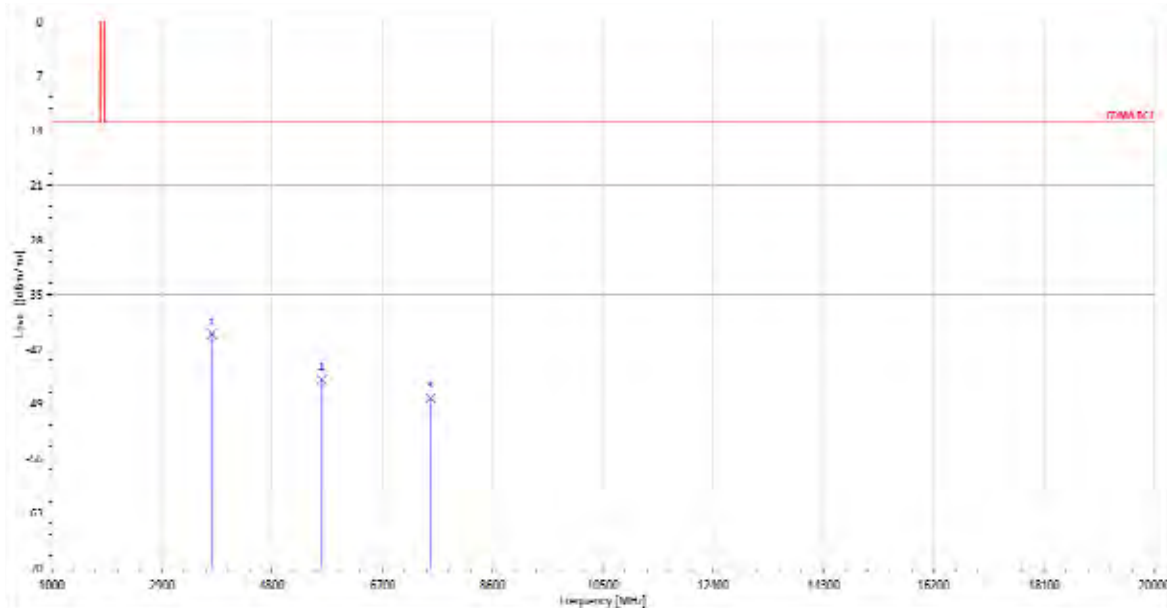
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-39.09	-39.43	8.70	-8.37	-13.00	-26.09
5640.00	H	-43.48	-44.18	10.36	-9.66	-13.00	-30.48
7520.00	H	-41.95	-42.02	11.63	-11.57	-13.00	-28.95
9400.00	H	-42.01	-42.07	13.00	-12.94	-13.00	-29.01

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ARFCN	:CH 600	Test Date	:2015-04-25
Operation Band	:CDMA 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



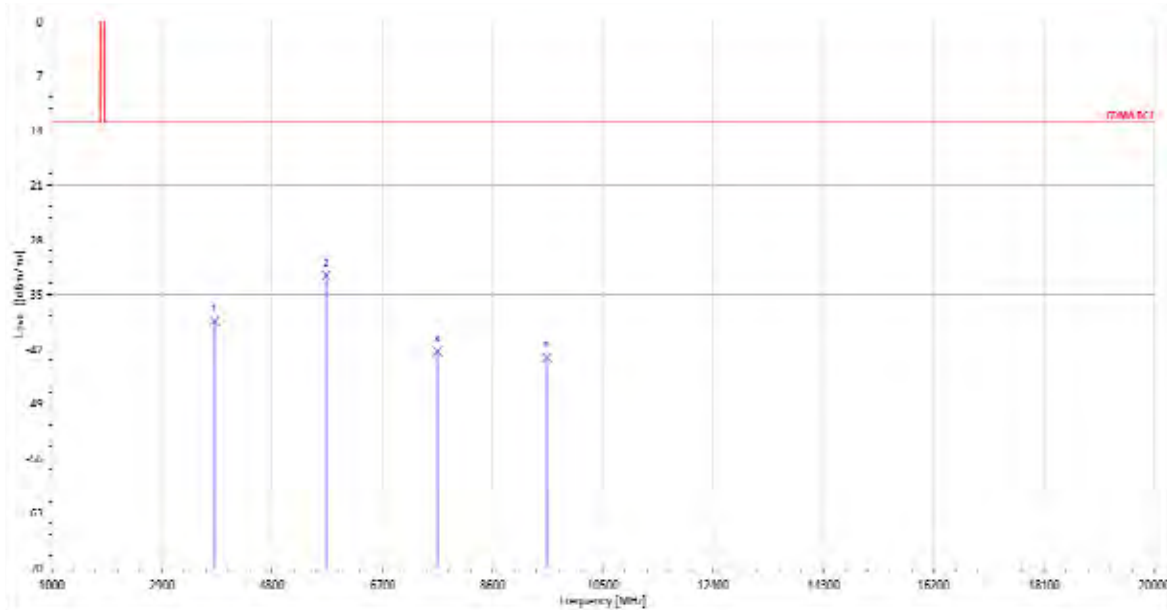
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3760.00	H	-40.10	-40.39	8.70	-8.41	-13.00	-27.10
5640.00	H	-45.95	-46.65	10.36	-9.66	-13.00	-32.95
7520.00	H	-48.34	-48.40	11.63	-11.57	-13.00	-35.34

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ARFCN	:CH 1175	Test Date	:2015-04-24
Operation Band	:CDMA 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



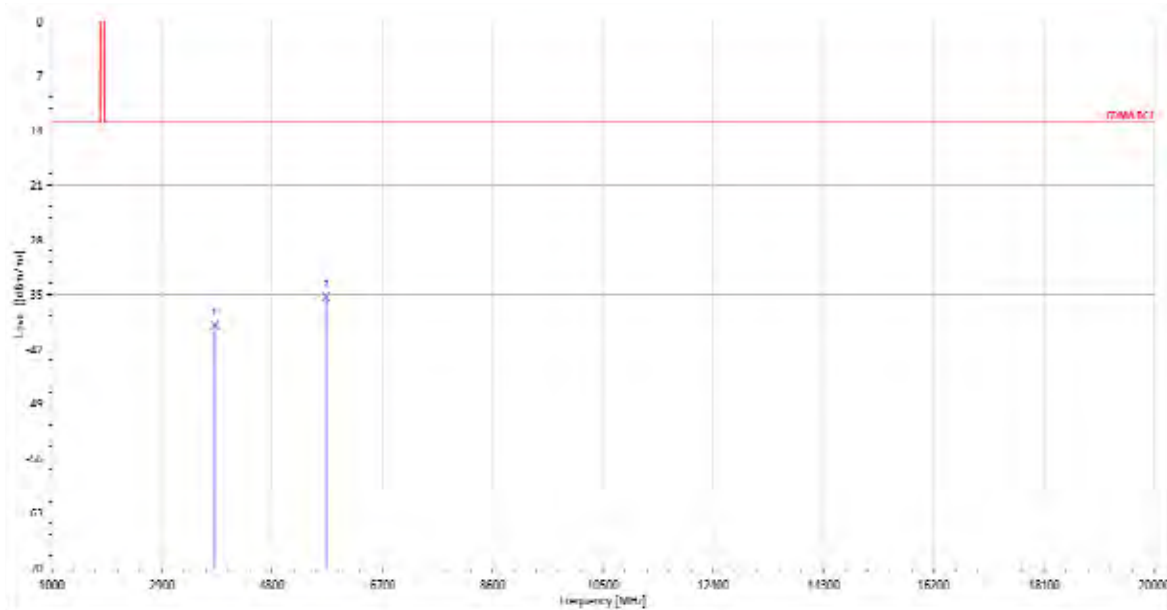
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3817.50	H	-38.45	-38.67	8.73	-8.50	-13.00	-25.45
5726.25	H	-32.61	-33.19	10.39	-9.81	-13.00	-19.61
7635.00	H	-42.32	-42.37	11.75	-11.69	-13.00	-29.32
9543.75	H	-43.09	-43.01	13.01	-13.09	-13.00	-30.09

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ARFCN	:CH 1175	Test Date	:2015-04-24
Operation Band	:CDMA 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3817.50	H	-38.94	-39.16	8.73	-8.50	-13.00	-25.94
5726.25	H	-35.27	-35.85	10.39	-9.81	-13.00	-22.27

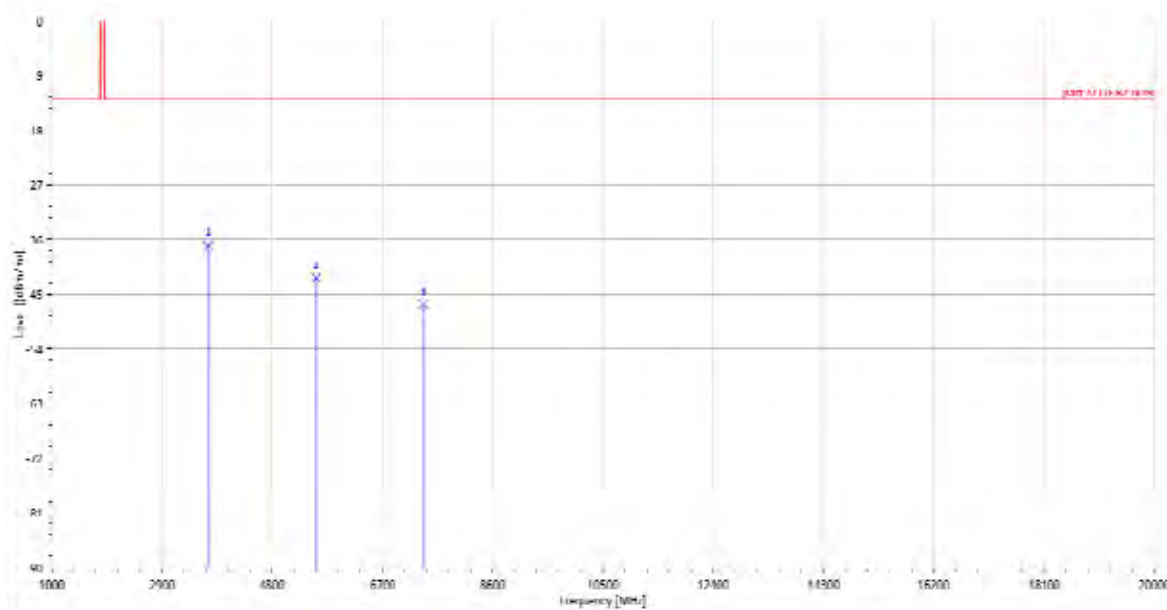
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**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 2(The Worst Case)**

ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
3715.00	H	-37.02	-38.81	8.68	-6.90	-13.00	-24.02
5572.50	H	-42.30	-44.84	10.32	-7.78	-13.00	-29.30
7430.00	H	-46.65	-48.60	11.53	-9.58	-13.00	-33.65

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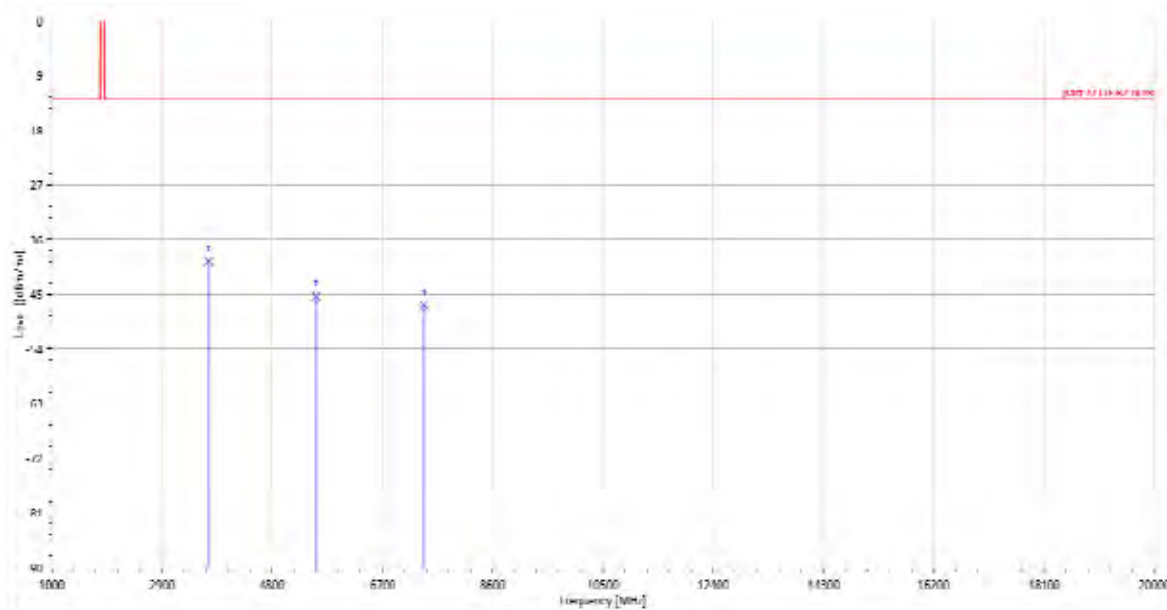
t (886-2) 2299-3279

f (886-2) 2298-0488

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



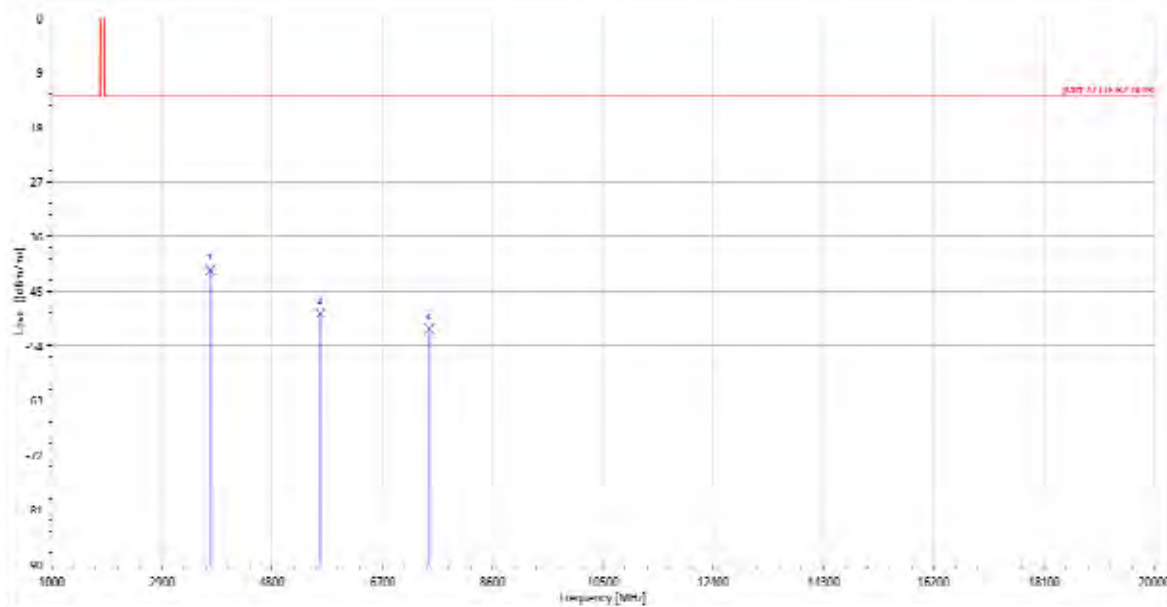
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3715.00	H	-39.55	-41.33	8.68	-6.90	-13.00	-26.55
5572.50	H	-45.35	-47.89	10.32	-7.78	-13.00	-32.35
7430.00	H	-46.80	-48.75	11.53	-9.58	-13.00	-33.80

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-41.54	-43.40	8.70	-6.83	-13.00	-28.54
5640.00	H	-48.63	-51.02	10.35	-7.96	-13.00	-35.63
7520.00	H	-51.22	-52.99	11.61	-9.83	-13.00	-38.22

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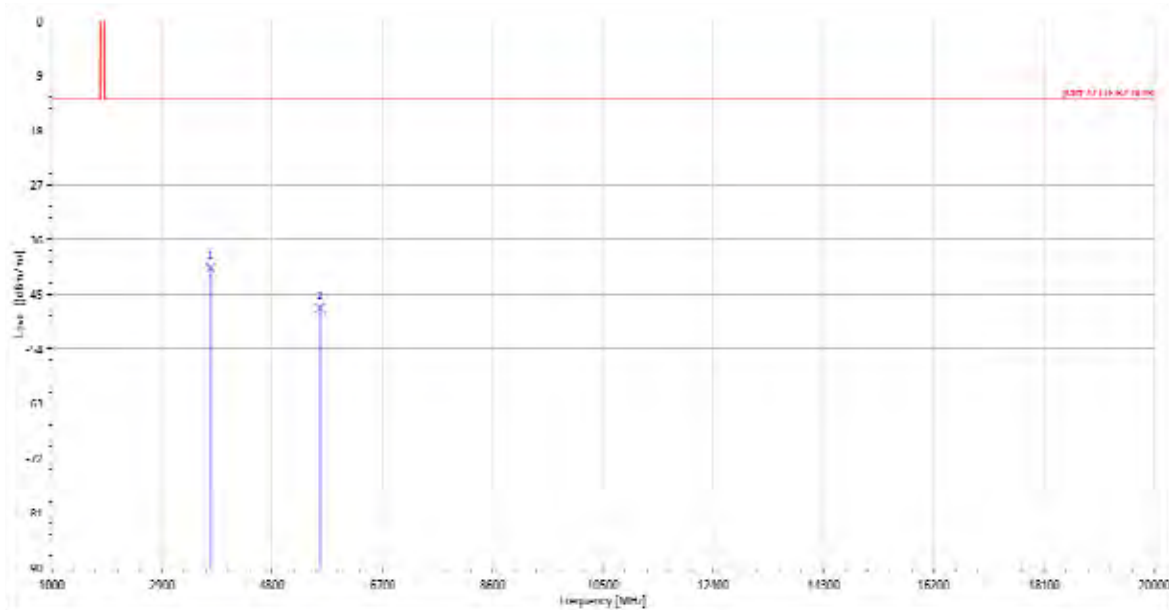
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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



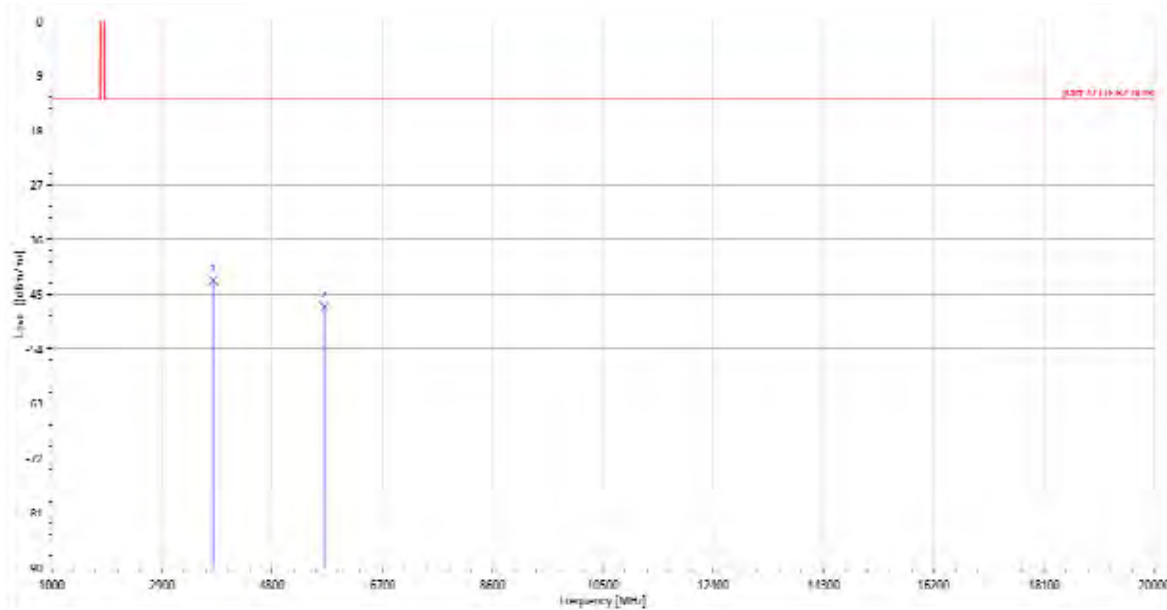
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-40.73	-42.59	8.70	-6.83	-13.00	-27.73
5640.00	H	-47.29	-49.68	10.35	-7.96	-13.00	-34.29

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

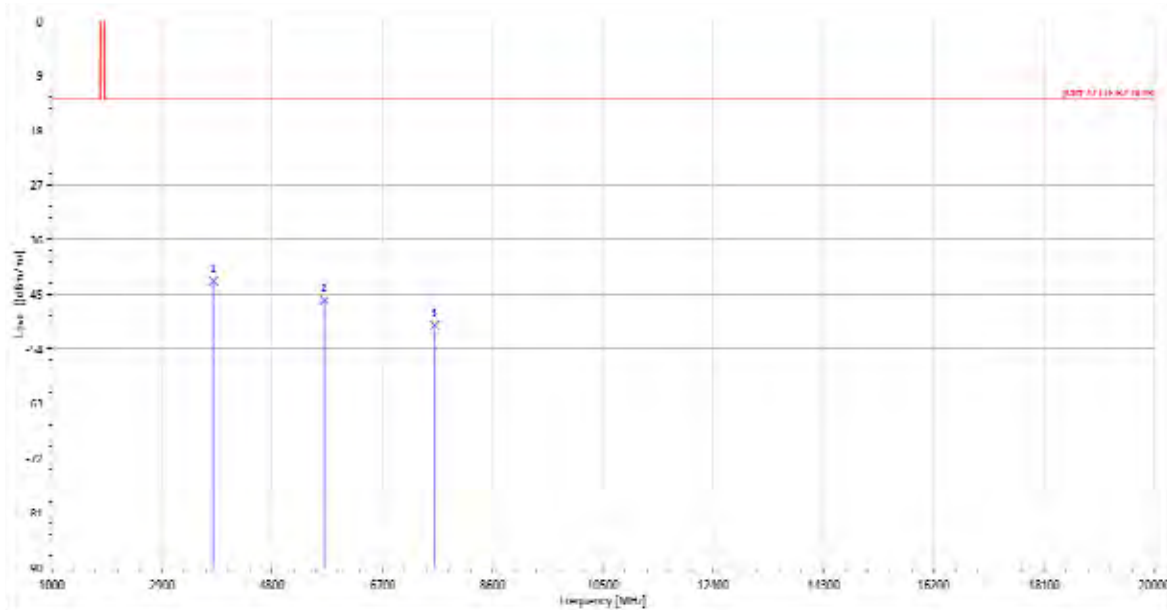


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3805.00	H	-42.69	-44.45	8.72	-6.96	-13.00	-29.69
5707.50	H	-47.15	-49.34	10.38	-8.20	-13.00	-34.15

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ARFCN	:16QAM BW 15 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3805.00	H	-42.82	-44.57	8.72	-6.96	-13.00	-29.82
5707.50	H	-46.00	-48.19	10.38	-8.20	-13.00	-33.00
7610.00	H	-50.12	-51.93	11.70	-9.89	-13.00	-37.12

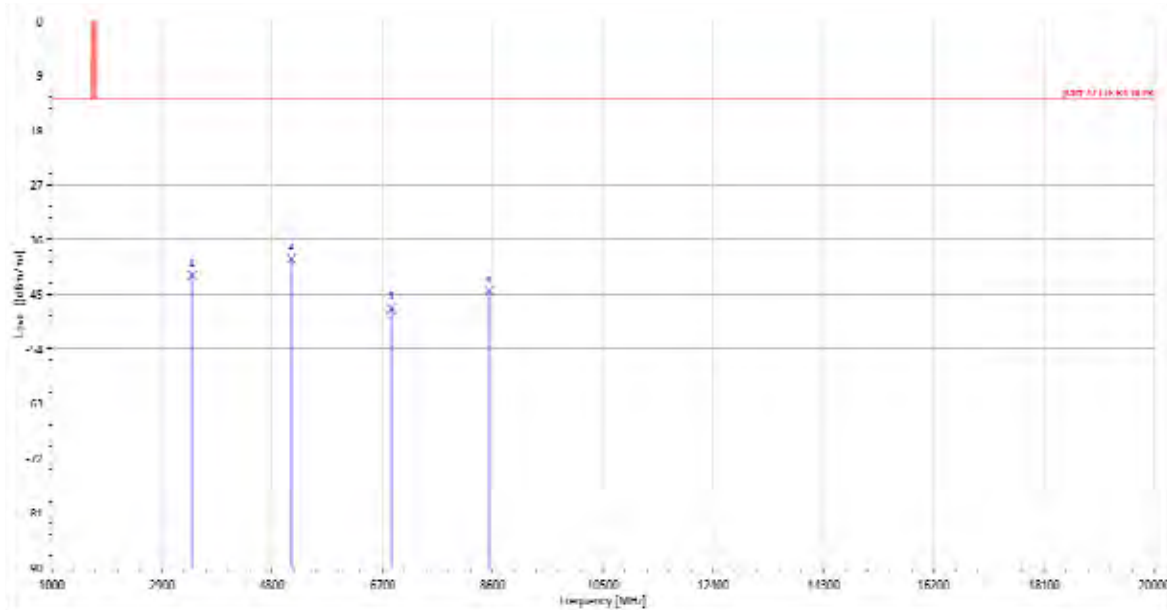
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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4 (The Worst Case)**

ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



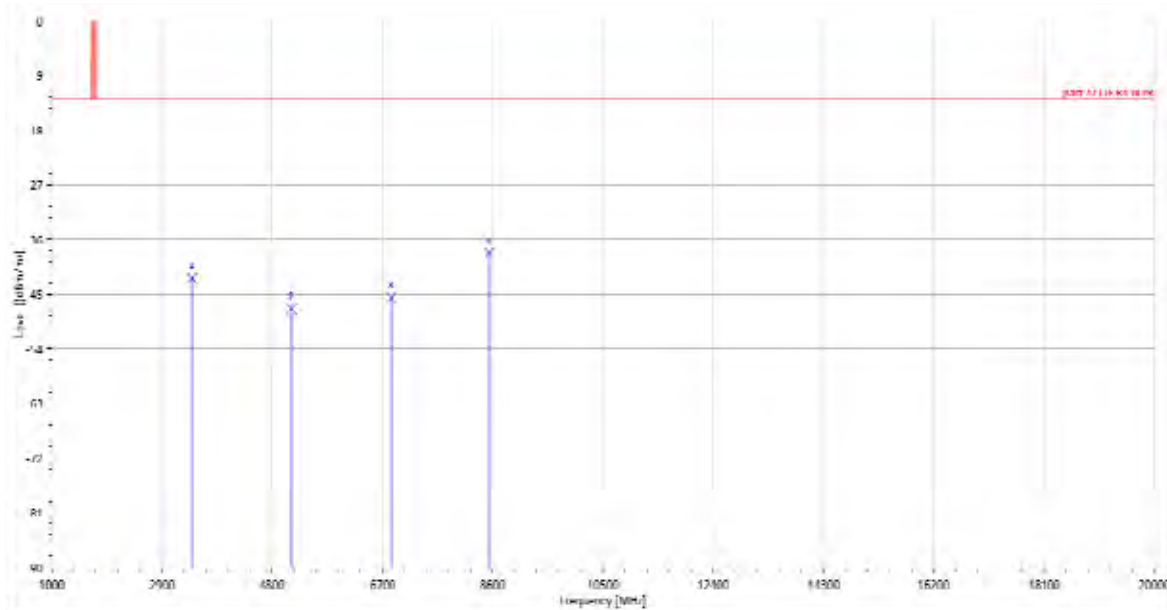
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3421.40	H	-41.92	-43.58	8.34	-6.68	-13.00	-28.92
5132.10	H	-39.16	-41.82	10.08	-7.43	-13.00	-26.16
6842.80	H	-47.40	-49.22	11.05	-9.24	-13.00	-34.40
8553.50	H	-44.47	-46.92	12.91	-10.45	-13.00	-31.47

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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



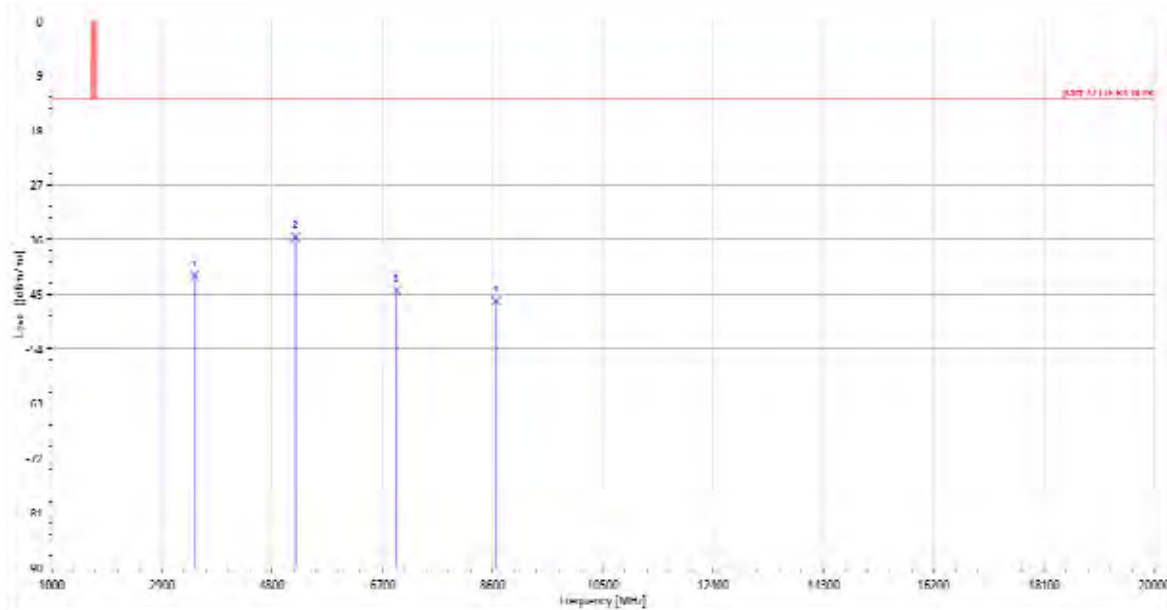
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3421.40	H	-42.37	-44.03	8.34	-6.68	-13.00	-29.37
5132.10	H	-47.42	-50.08	10.08	-7.43	-13.00	-34.42
6842.80	H	-45.59	-47.41	11.05	-9.24	-13.00	-32.59
8553.50	H	-38.21	-40.67	12.91	-10.45	-13.00	-25.21

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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3465.00	H	-41.99	-43.85	8.49	-6.63	-13.00	-28.99
5197.50	H	-35.64	-38.52	10.12	-7.24	-13.00	-22.64
6930.00	H	-44.37	-46.18	11.15	-9.34	-13.00	-31.37
8662.50	H	-46.11	-48.44	12.93	-10.60	-13.00	-33.11

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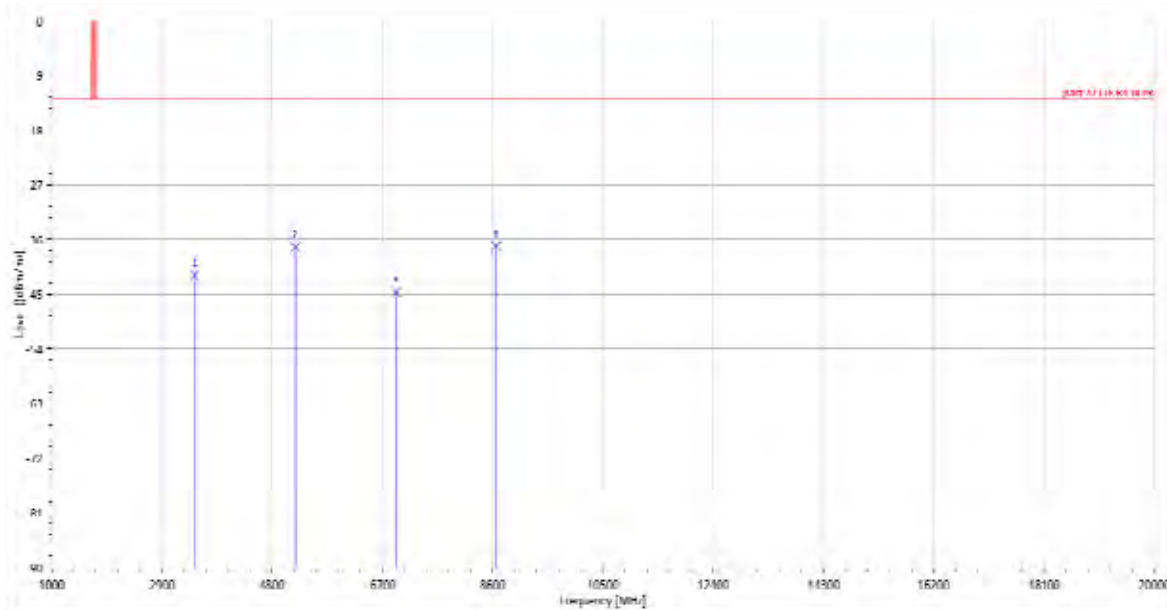
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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3465.00	H	-41.91	-43.77	8.49	-6.63	-13.00	-28.91
5197.50	H	-37.29	-40.17	10.12	-7.24	-13.00	-24.29
6930.00	H	-44.72	-46.53	11.15	-9.34	-13.00	-31.72
8662.50	H	-37.07	-39.40	12.93	-10.60	-13.00	-24.07

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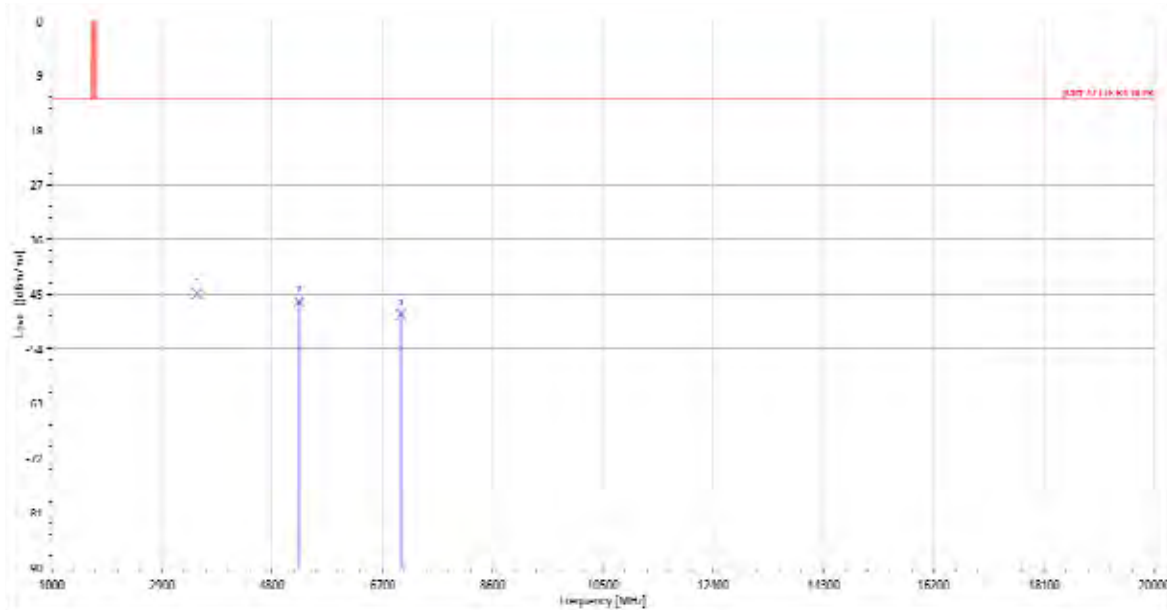
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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

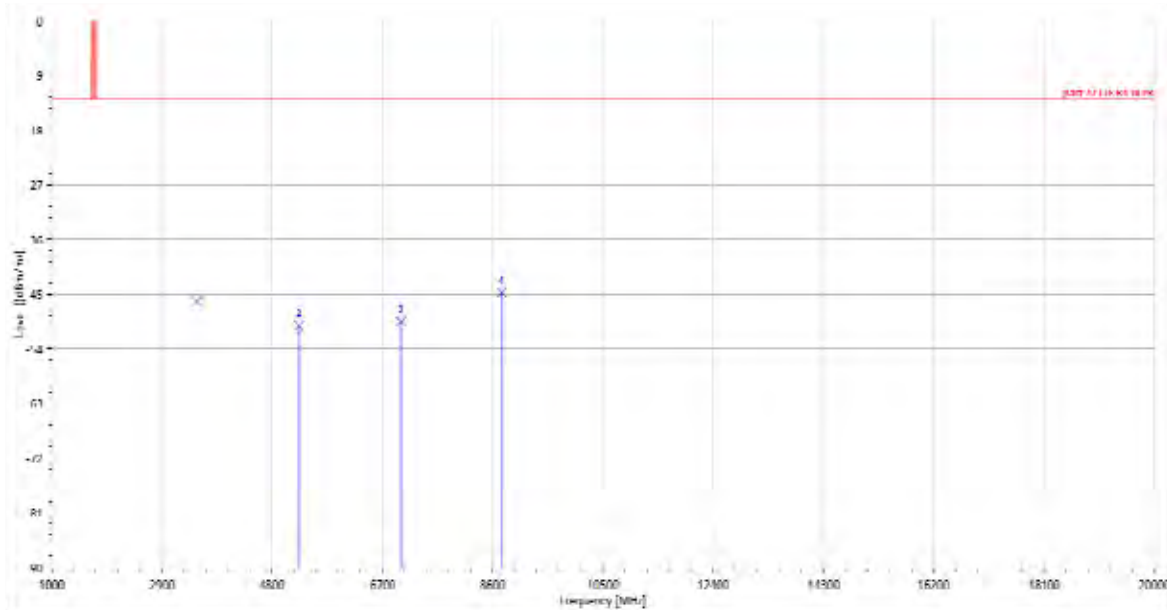


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3508.60	H	-44.96	-46.82	8.61	-6.75	-13.00	-31.96
5262.90	H	-46.26	-49.14	10.16	-7.29	-13.00	-33.26
7017.20	H	-48.35	-50.06	11.22	-9.51	-13.00	-35.35

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ARFCN	:QPSK BW 1.4 RB 1 0	Test Date	:2015-04-22
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



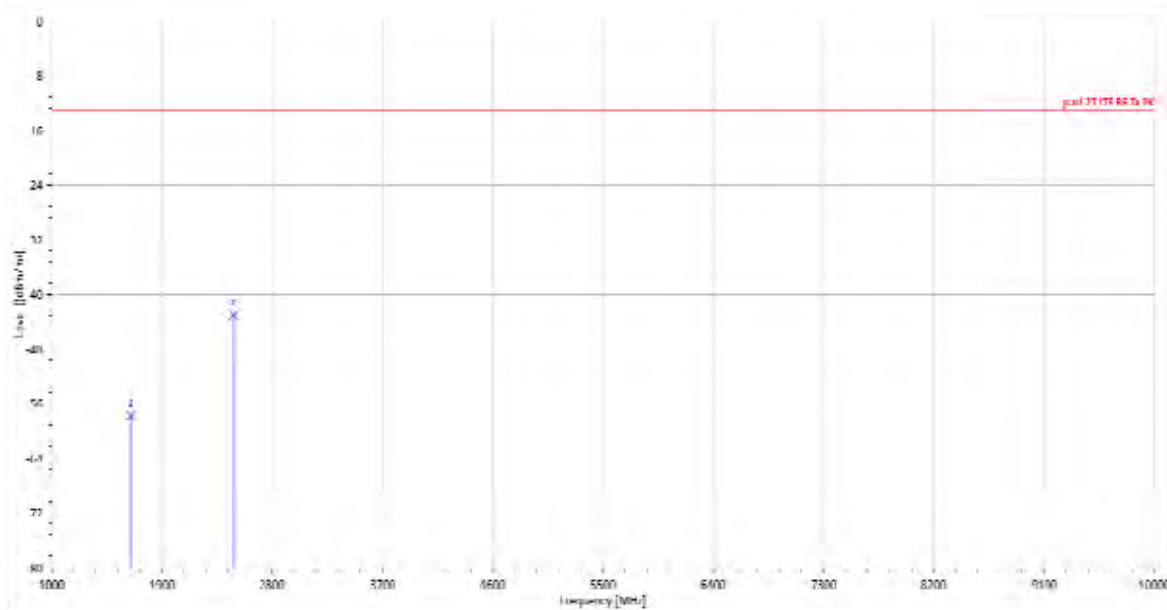
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3508.60	H	-46.21	-48.07	8.61	-6.75	-13.00	-33.21
5262.90	H	-50.20	-53.08	10.16	-7.29	-13.00	-37.20
7017.20	H	-49.54	-51.26	11.22	-9.51	-13.00	-36.54
8771.50	H	-44.75	-47.03	12.95	-10.67	-13.00	-31.75

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 5 (The Worst Case)**

ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1653.00	H	-57.80	-58.55	5.85	-5.10	-13.00	-44.80
2479.50	H	-43.04	-42.97	5.78	-5.85	-13.00	-30.04

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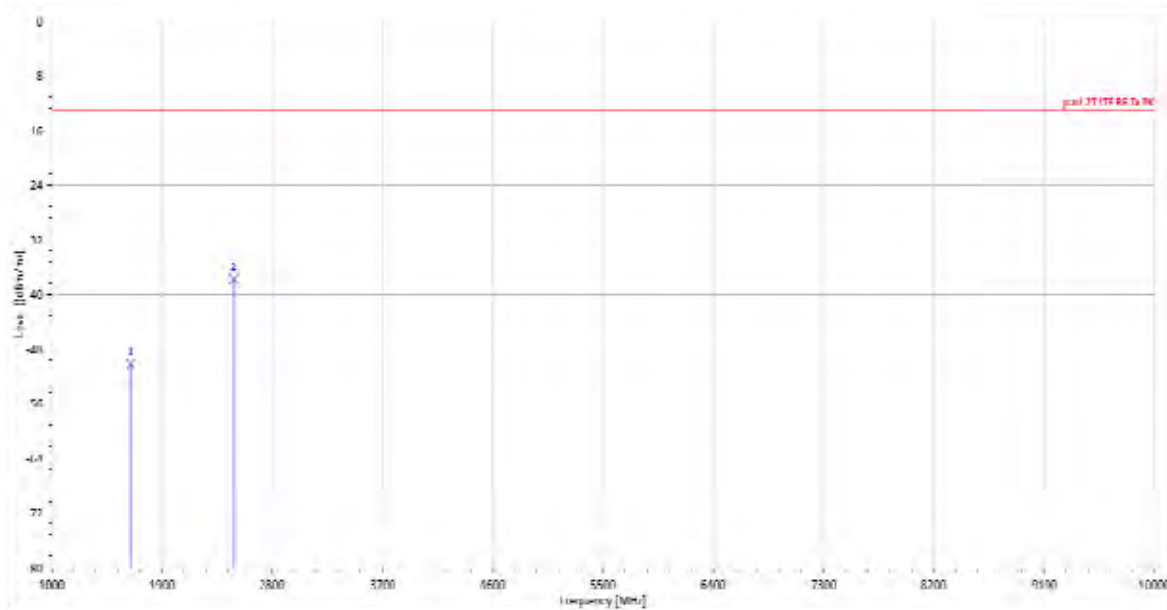
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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

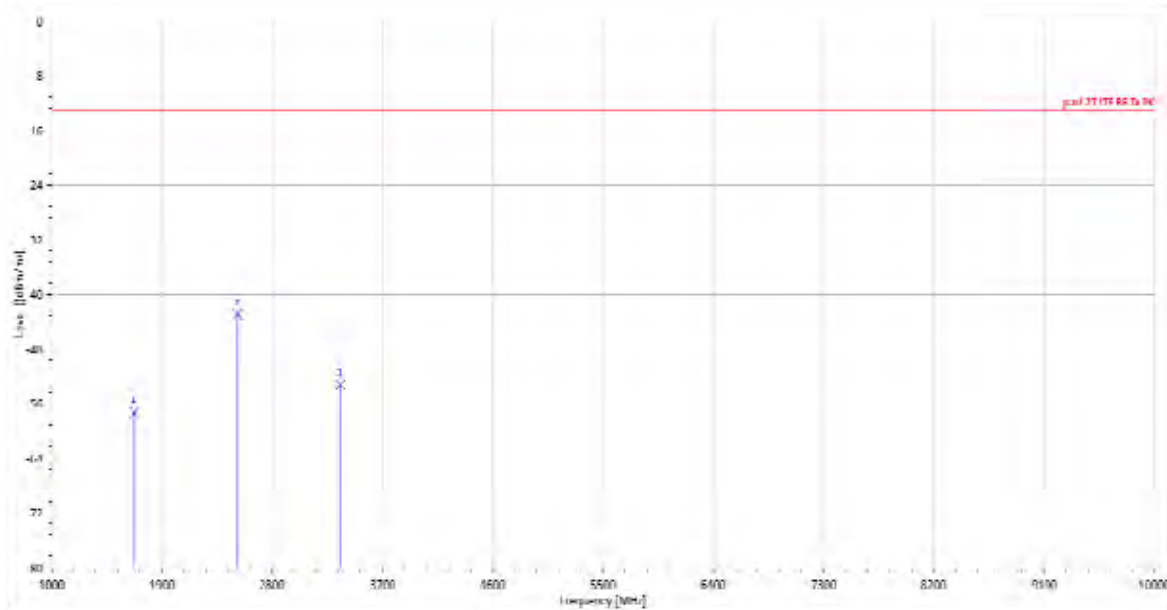


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1653.00	H	-50.24	-50.99	5.85	-5.10	-13.00	-37.24
2479.50	H	-37.80	-37.73	5.78	-5.85	-13.00	-24.80

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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1673.00	H	-57.34	-57.99	5.78	-5.12	-13.00	-44.34
2509.50	H	-42.95	-42.96	5.84	-5.84	-13.00	-29.95
3346.00	H	-53.33	-54.99	8.15	-6.49	-13.00	-40.33

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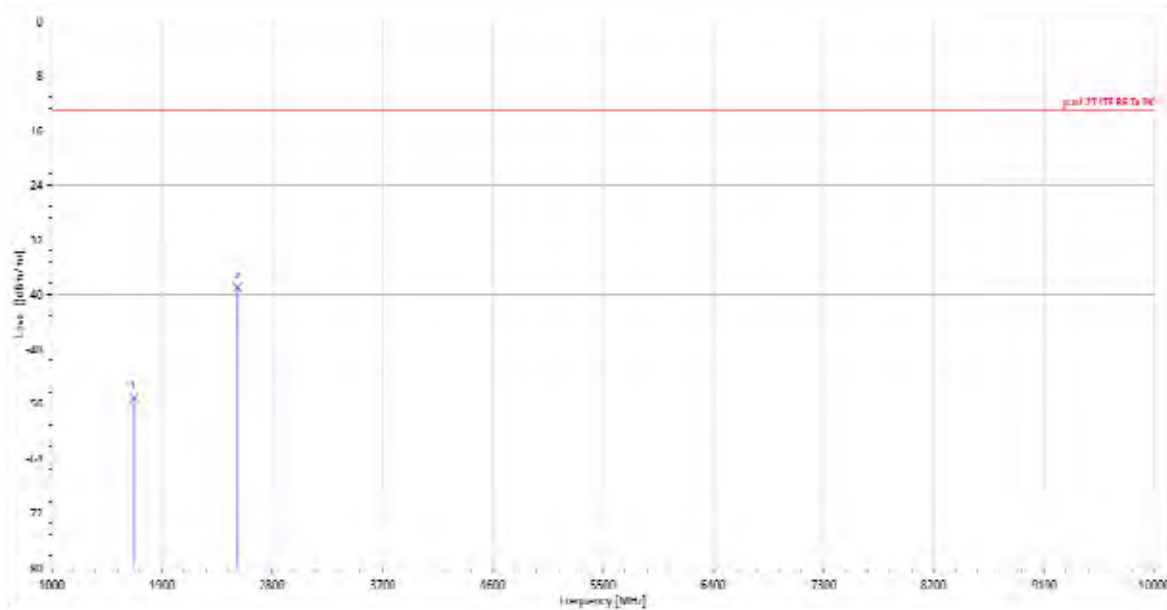
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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

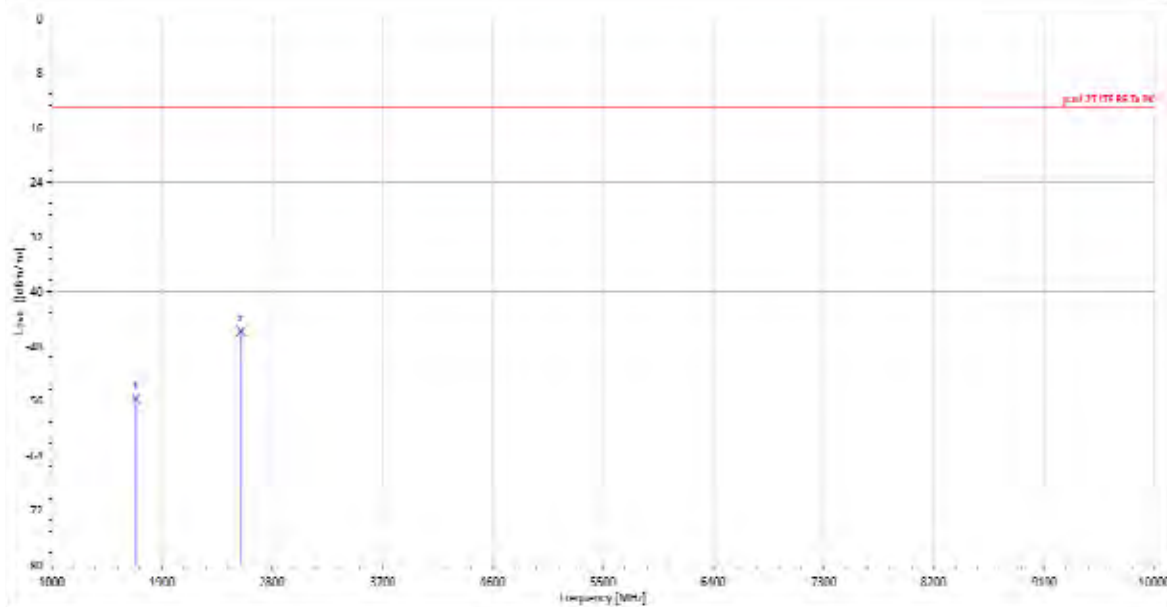


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.00	H	-55.22	-55.88	5.78	-5.12	-13.00	-42.22
2509.50	H	-39.05	-39.06	5.84	-5.84	-13.00	-26.05

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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1693.00	H	-55.68	-56.27	5.74	-5.15	-13.00	-42.68
2539.50	H	-45.83	-45.89	5.91	-5.85	-13.00	-32.83

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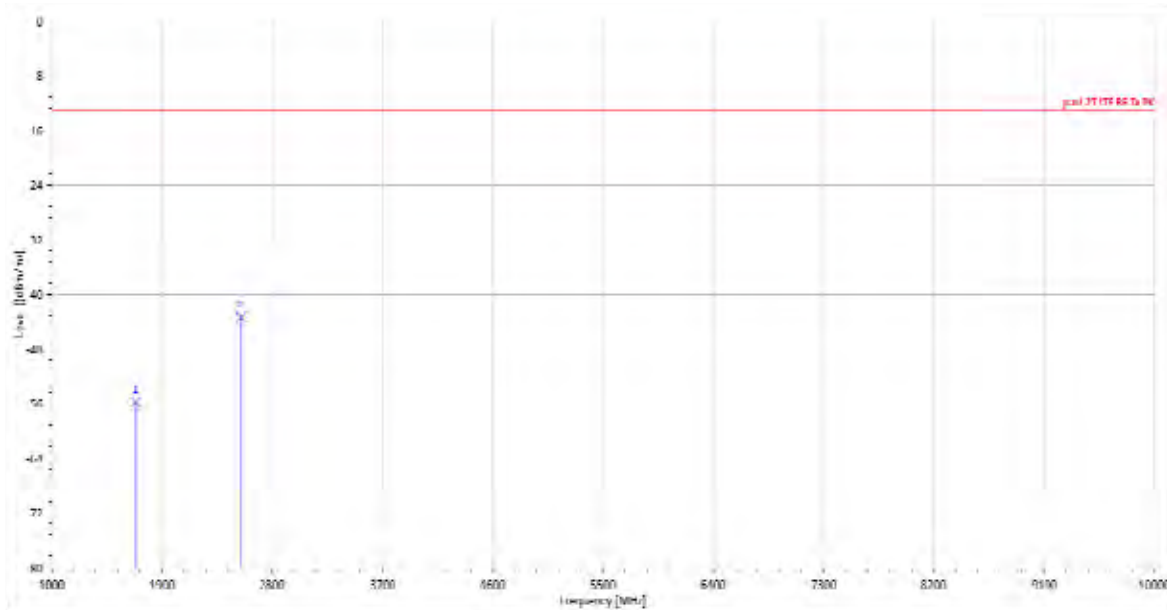
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ARFCN	:16QAM BW 5 RB 1 24	Test Date	:2015-04-22
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1693.00	H	-55.83	-56.42	5.74	-5.15	-13.00	-42.83
2539.50	H	-43.37	-43.43	5.91	-5.85	-13.00	-30.37

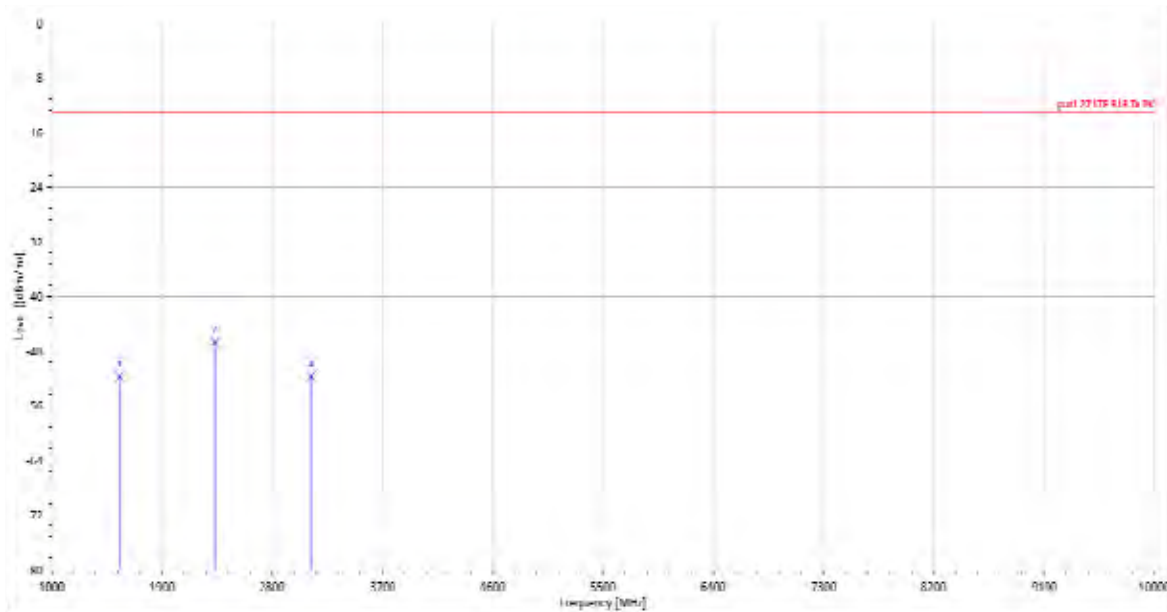
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13 (The Worst Case)**

ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



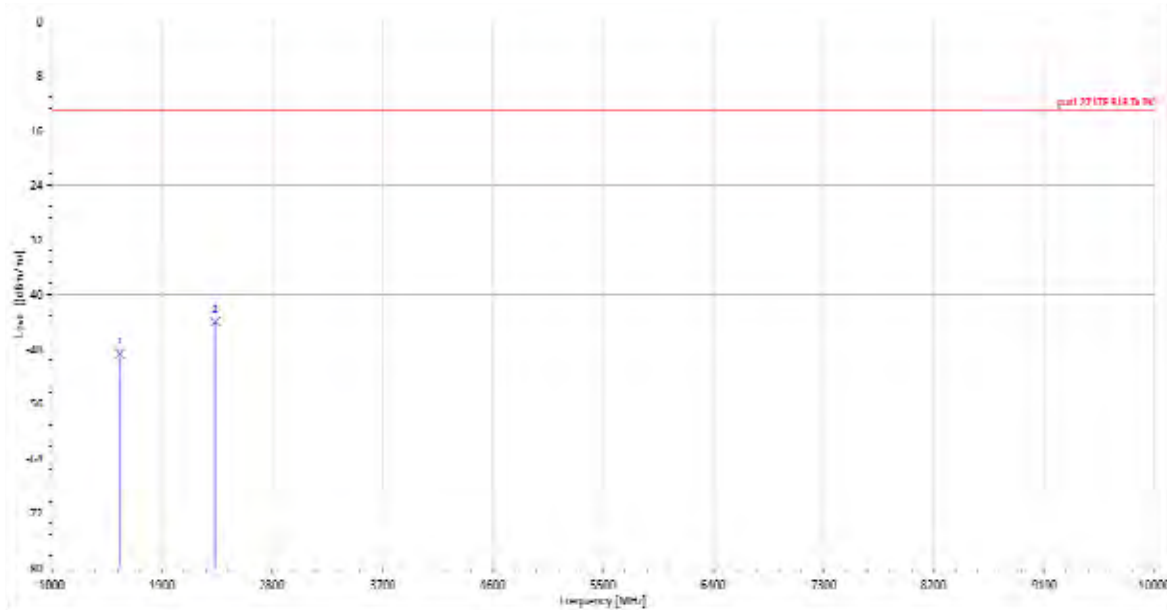
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1564.00	H	-51.73	-52.88	6.07	-4.91	-13.00	-38.73
2346.00	H	-46.69	-46.52	5.54	-5.71	-13.00	-33.69
3128.00	H	-51.71	-52.78	7.38	-6.31	-13.00	-38.71

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



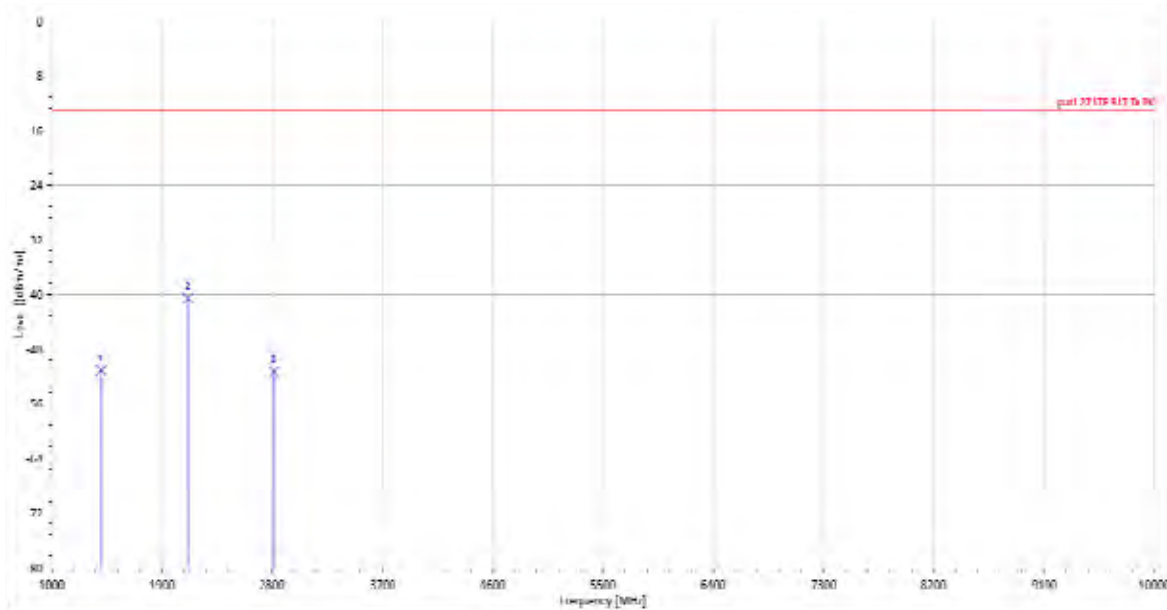
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1564.00	H	-48.70	-49.86	6.07	-4.91	-13.00	-35.70
2346.00	H	-44.05	-43.88	5.54	-5.71	-13.00	-31.05

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)**

ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

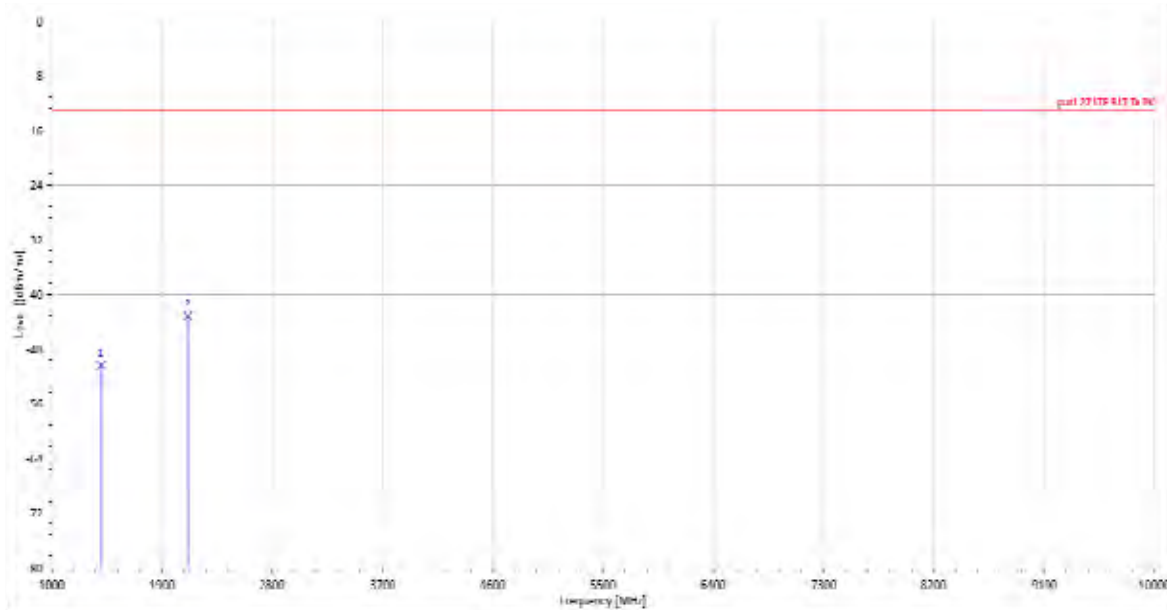


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1413.00	H	-51.16	-52.10	5.52	-4.57	-13.00	-38.16
2119.50	H	-40.61	-40.25	5.18	-5.54	-13.00	-27.61
2826.00	H	-51.34	-51.85	6.56	-6.05	-13.00	-38.34

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1413.00	H	-50.42	-51.37	5.52	-4.57	-13.00	-37.42
2119.50	H	-43.16	-42.80	5.18	-5.54	-13.00	-30.16

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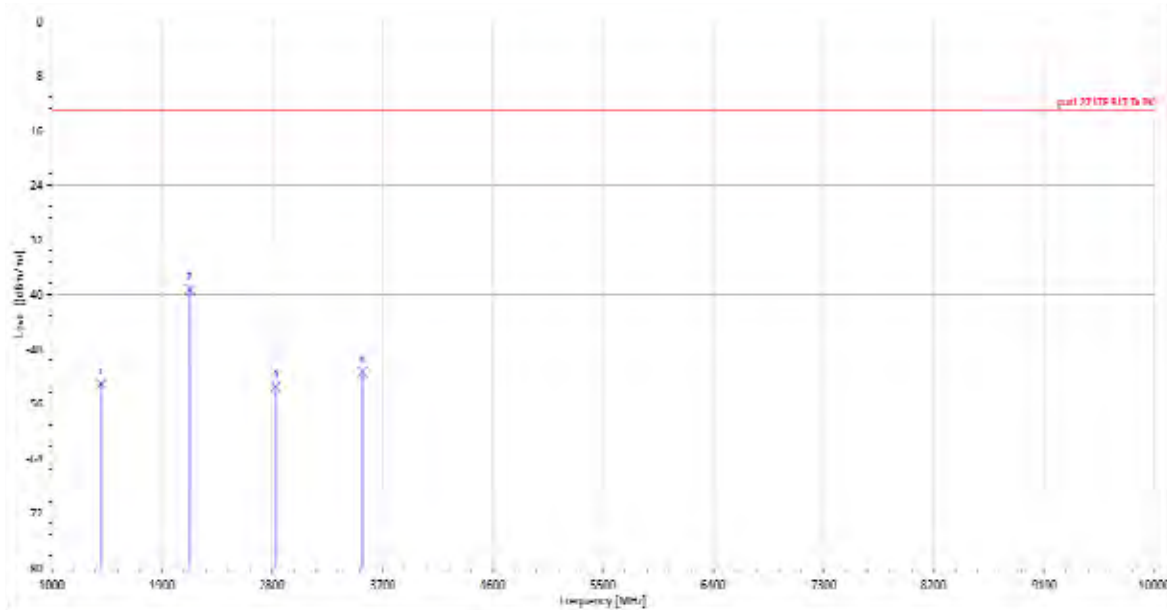
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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

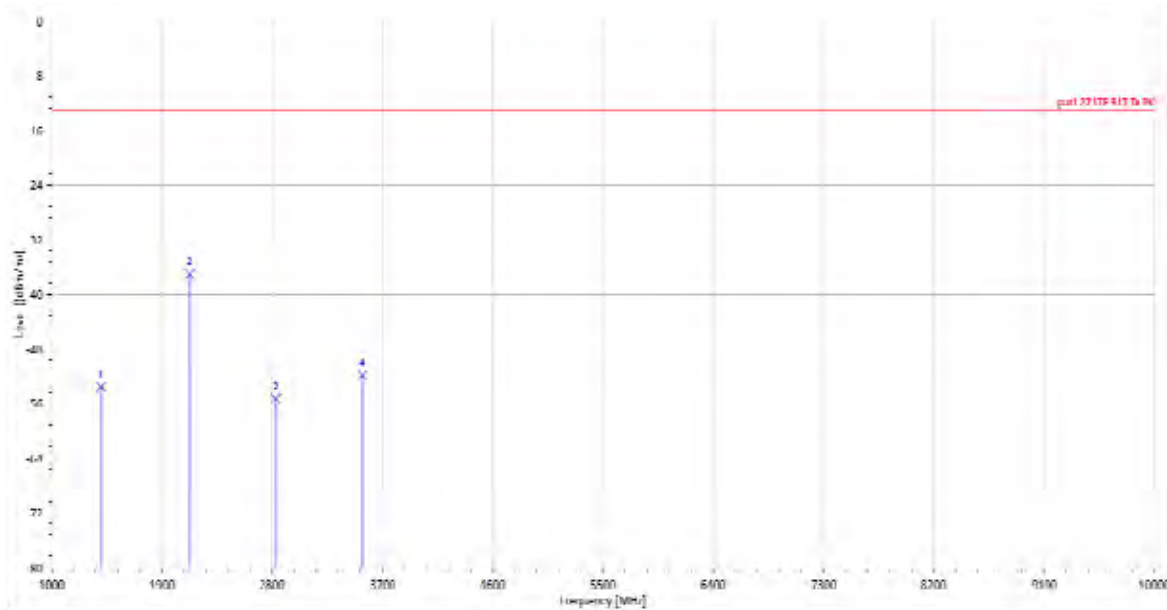


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1420.00	H	-53.17	-54.12	5.52	-4.57	-13.00	-40.17
2130.00	H	-39.32	-38.96	5.20	-5.56	-13.00	-26.32
2840.00	H	-53.57	-54.06	6.60	-6.11	-13.00	-40.57
3550.00	H	-51.37	-53.38	8.62	-6.61	-13.00	-38.37

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



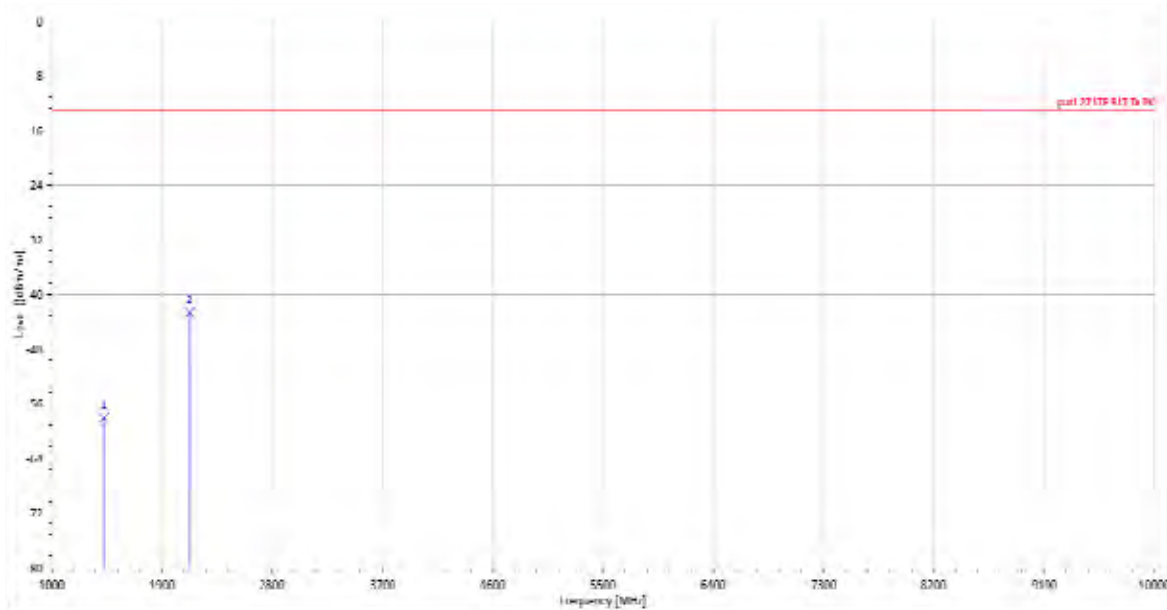
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1420.00	H	-53.63	-54.58	5.52	-4.57	-13.00	-40.63
2130.00	H	-37.07	-36.71	5.20	-5.56	-13.00	-24.07
2840.00	H	-55.31	-55.80	6.60	-6.11	-13.00	-42.31
3550.00	H	-51.90	-53.91	8.62	-6.61	-13.00	-38.90

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

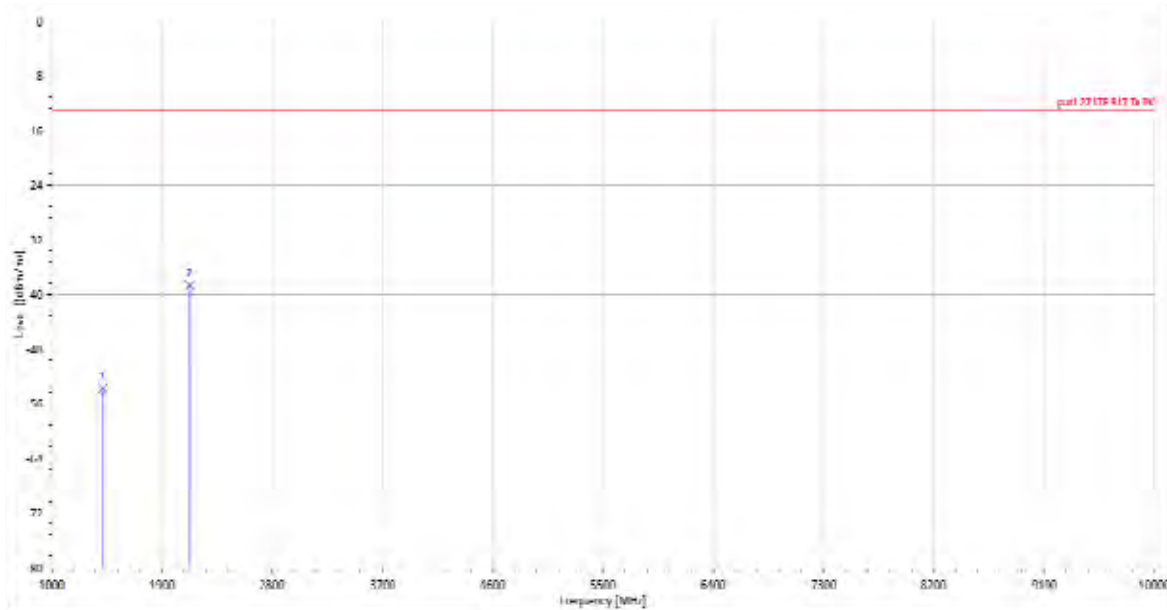


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1427.00	H	-58.14	-59.18	5.67	-4.63	-13.00	-45.14
2140.50	H	-42.69	-42.33	5.20	-5.56	-13.00	-29.69

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ARFCN	:16QAM BW 5 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1427.00	H	-53.75	-54.79	5.67	-4.63	-13.00	-40.75
2140.50	H	-38.73	-38.37	5.20	-5.56	-13.00	-25.73

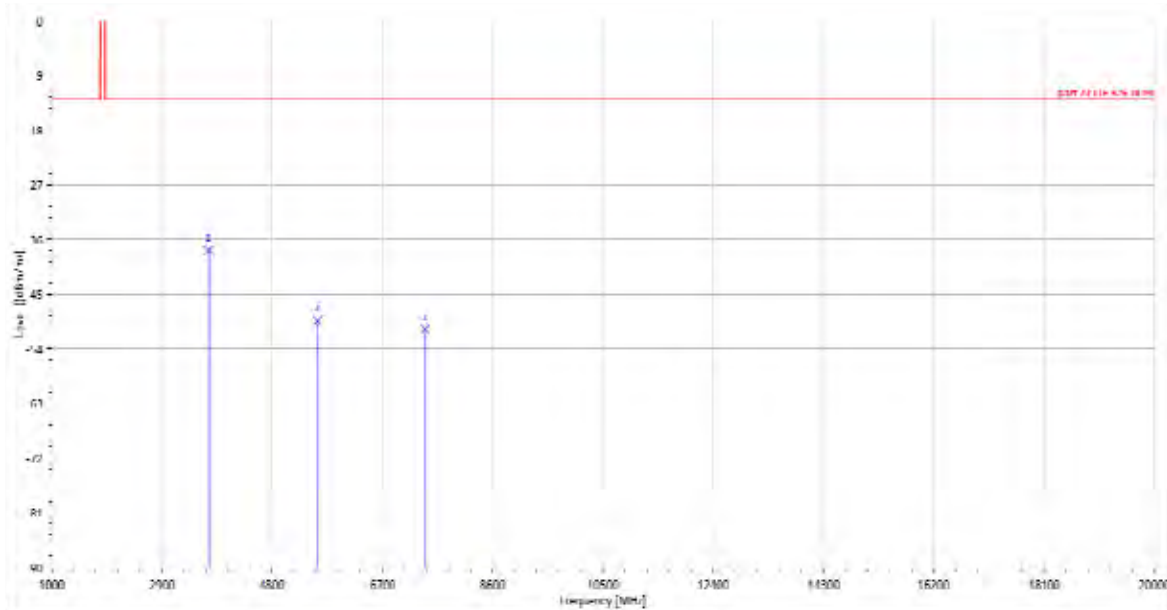
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**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 25 (The Worst Case)**

ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



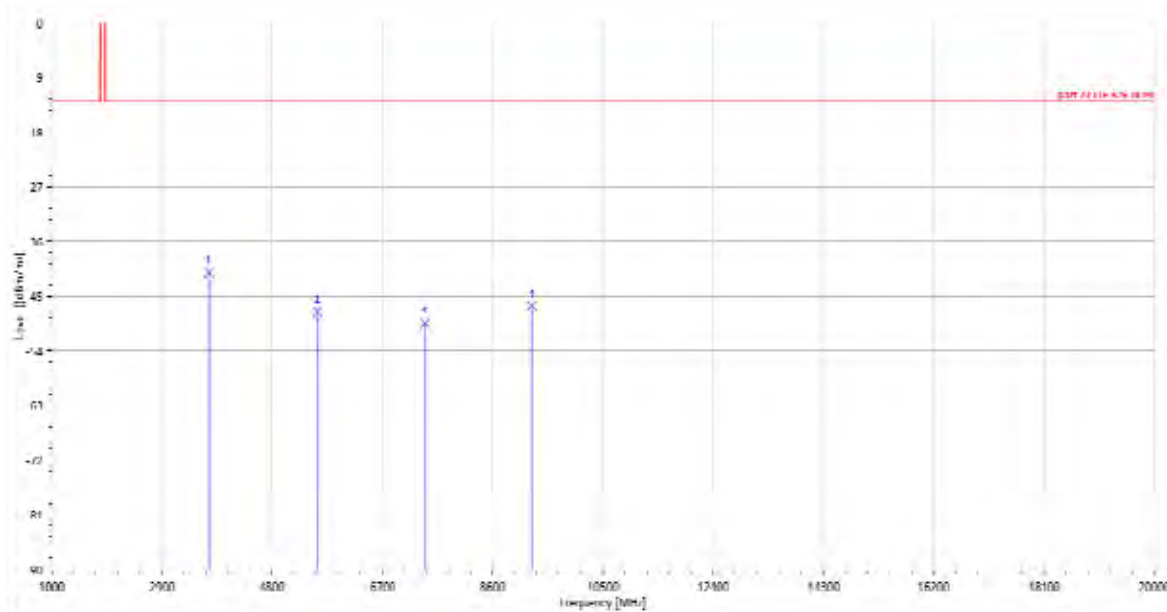
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3715.00	H	-37.78	-39.62	8.69	-6.85	-13.00	-24.78
5572.50	H	-49.36	-51.89	10.33	-7.80	-13.00	-36.36
7430.00	H	-50.82	-52.70	11.55	-9.67	-13.00	-37.82

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



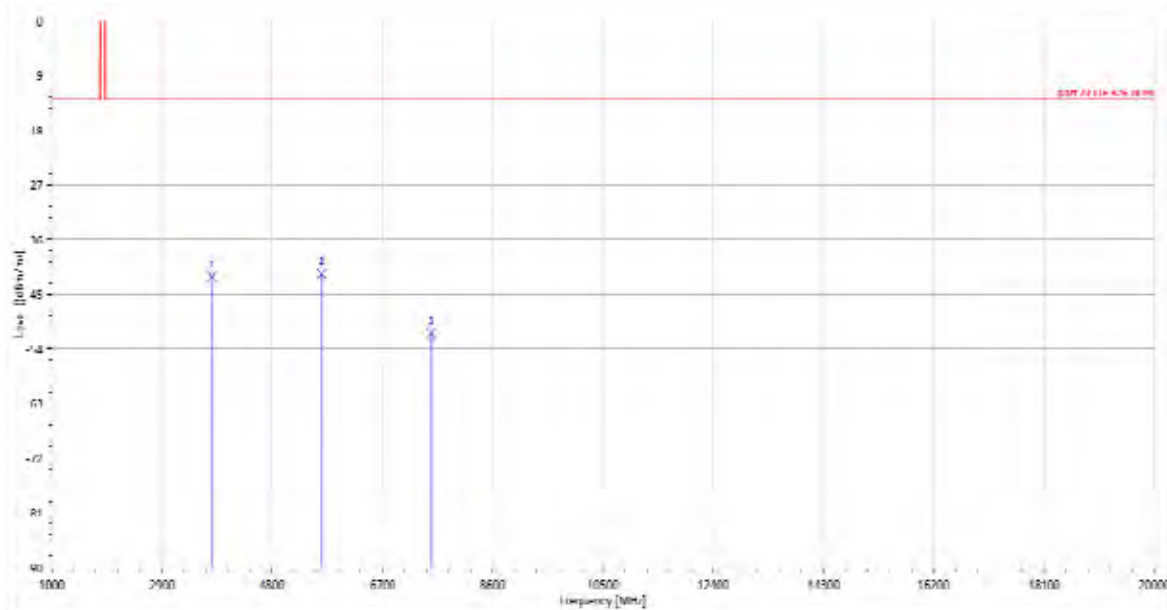
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3715.00	H	-41.14	-42.98	8.69	-6.85	-13.00	-28.14
5572.50	H	-47.55	-50.08	10.33	-7.80	-13.00	-34.55
7430.00	H	-49.46	-51.34	11.55	-9.67	-13.00	-36.46
9287.50	H	-46.59	-48.69	13.00	-10.90	-13.00	-33.59

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



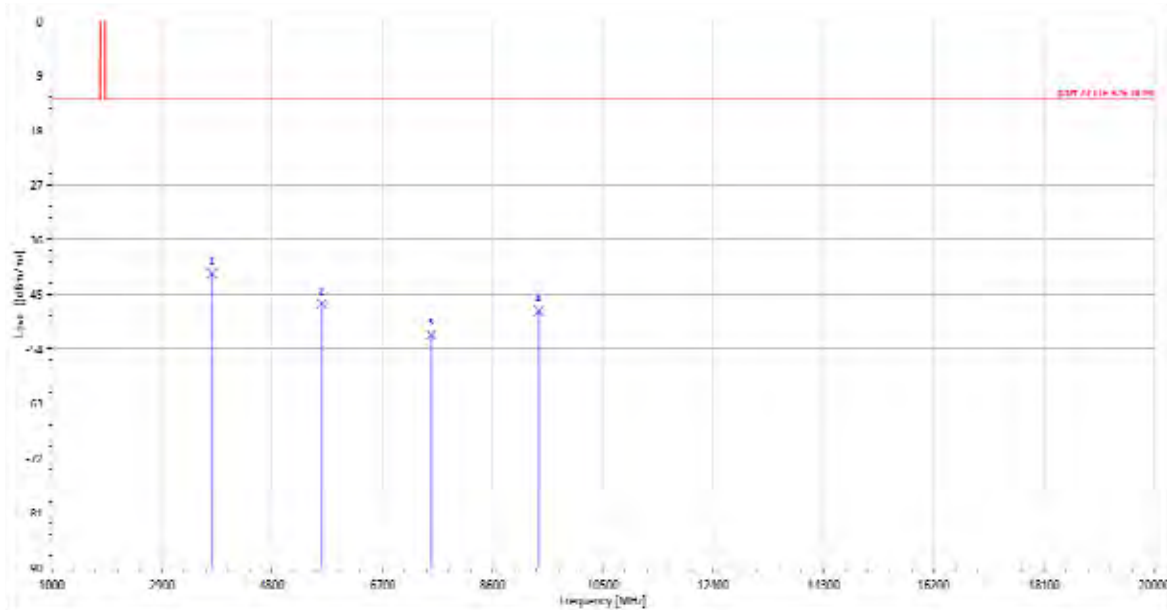
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3765.00	H	-42.11	-43.97	8.71	-6.85	-13.00	-29.11
5647.50	H	-41.67	-44.04	10.36	-7.98	-13.00	-28.67
7530.00	H	-51.45	-53.35	11.64	-9.74	-13.00	-38.45

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



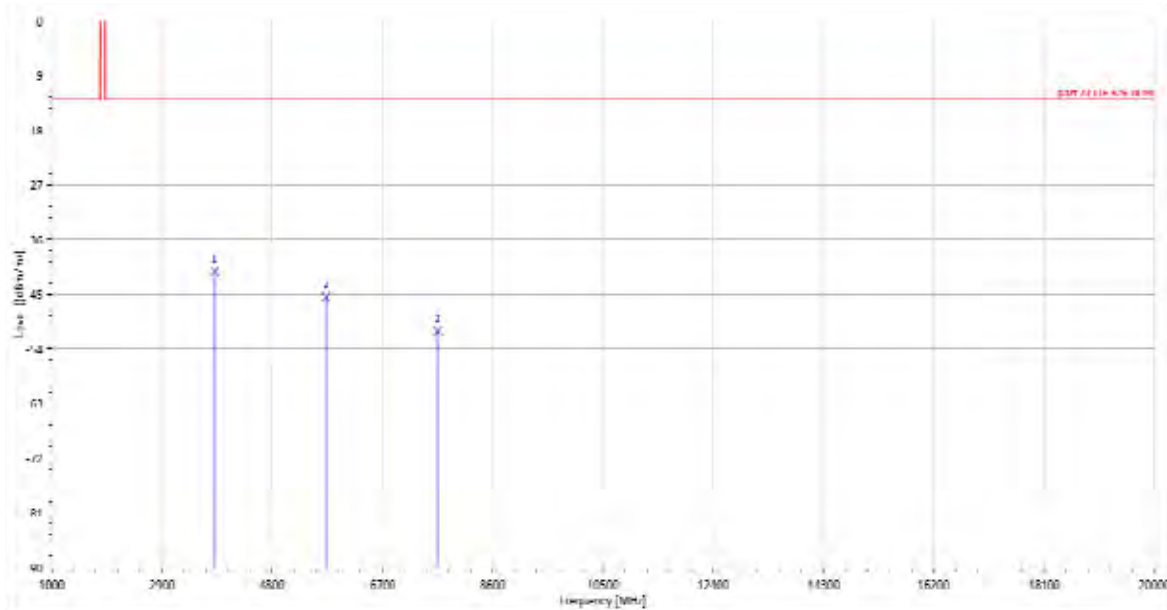
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3765.00	H	-41.59	-43.45	8.71	-6.85	-13.00	-28.59
5647.50	H	-46.56	-48.93	10.36	-7.98	-13.00	-33.56
7530.00	H	-51.68	-53.58	11.64	-9.74	-13.00	-38.68
9412.50	H	-47.81	-49.83	13.00	-10.98	-13.00	-34.81

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

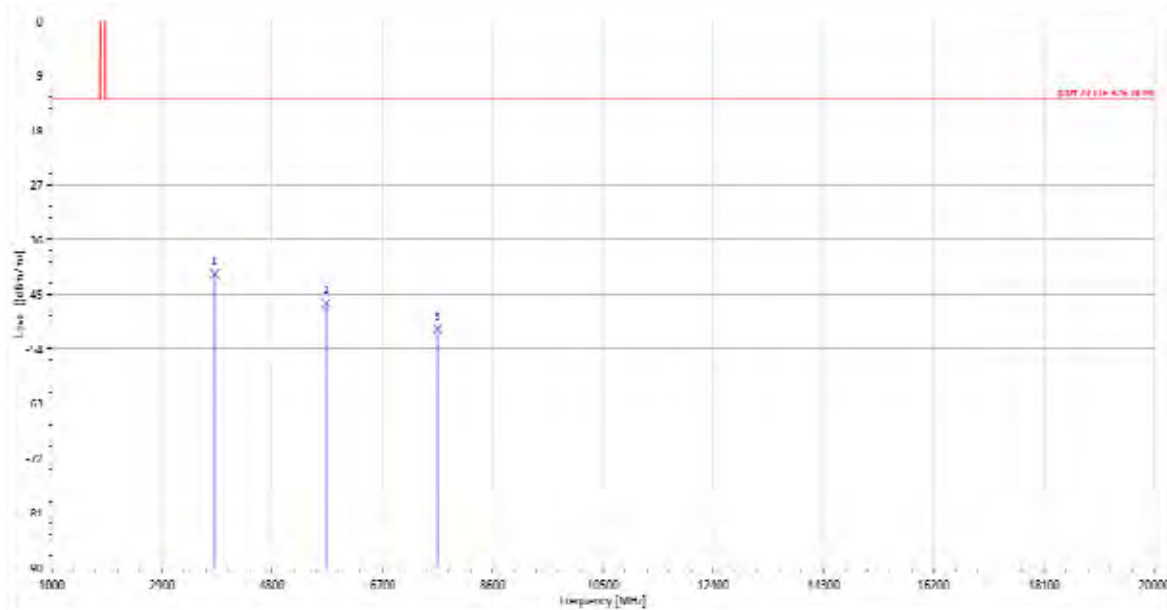


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.00	H	-41.22	-43.03	8.73	-6.92	-13.00	-28.22
5722.50	H	-45.47	-47.67	10.39	-8.19	-13.00	-32.47
7630.00	H	-51.08	-52.84	11.75	-9.98	-13.00	-38.08

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ARFCN	:16QAM BW 15 RB1 0	Test Date	:2015-04-22
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.00	H	-41.69	-43.49	8.73	-6.92	-13.00	-28.69
5722.50	H	-46.51	-48.71	10.39	-8.19	-13.00	-33.51
7630.00	H	-50.74	-52.51	11.75	-9.98	-13.00	-37.74

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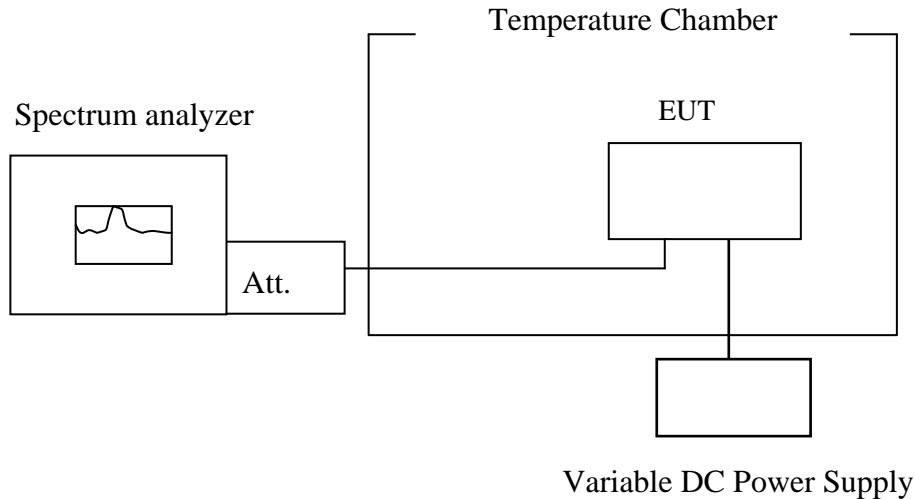
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## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicable:

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

### 11.2. Test Set-up:



**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 . 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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**11.4. Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	06/03/2014	06/02/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2014	05/30/2015

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**11.5. Measurement Result:**

**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	836599999	2	2091
3.8	20	836599997	0	2091
3.3	20	836599996	-1	2091
3.3 (End point)	20	836599996	-1	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836600004	7	2091
3.8	40	836600003	6	2091
3.8	30	836600004	7	2091
3.8	20	836599997	0	2091
3.8	10	836599997	0	2091
3.8	0	836599997	0	2091
3.8	-10	836599998	1	2091
3.8	-20	836599997	0	2091
3.8	-30	836599996	-1	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	1879999999	5	4700
3.8	20	1879999994	0	4700
3.3	20	1879999993	-1	4700
3.3 (End point)	20	1879999993	-1	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1880000003	9	4700
3.8	40	1880000002	8	4700
3.8	30	1880000001	7	4700
3.8	20	1879999994	0	4700
3.8	10	1880000002	8	4700
3.8	0	1879999996	2	4700
3.8	-10	1879999997	3	4700
3.8	-20	1879999996	2	4700
3.8	-30	1879999998	4	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	1879999998	4	4700
3.8	20	1879999994	0	4700
3.3	20	1879999997	3	4700
3.3 (End point)	20	1879999997	3	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1880000003	9	4700
3.8	40	1880000001	7	4700
3.8	30	1880000003	9	4700
3.8	20	1879999994	0	4700
3.8	10	1879999999	5	4700
3.8	0	1879999995	1	4700
3.8	-10	1879999994	0	4700
3.8	-20	1879999996	2	4700
3.8	-30	1879999995	1	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	173259997	2	4331
3.8	20	173259995	0	4331
3.3	20	173259996	1	4331
3.3 (End point)	20	173259996	1	4331

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	173260002	7	4331
3.8	40	173260004	9	4331
3.8	30	173260004	9	4331
3.8	20	173259995	0	4331
3.8	10	173259995	0	4331
3.8	0	173259997	2	4331
3.8	-10	173259997	2	4331
3.8	-20	173259996	1	4331
3.8	-30	173259996	1	4331

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	836599997	1	2091
3.8	20	836599996	0	2091
3.3	20	836599995	-1	2091
3.3 (End point)	20	836599995	-1	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836600002	6	2091
3.8	40	836600001	5	2091
3.8	30	836600006	10	2091
3.8	20	836599996	0	2091
3.8	10	836600007	11	2091
3.8	0	836599997	1	2091
3.8	-10	836599994	-2	2091
3.8	-20	836599992	-4	2091
3.8	-30	836599994	-2	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	25	836.519926	33	2091
3.8	25	836.519959	0	2091
3.3	25	836.519936	23	2091
3.3 (End point)	25	836.519936	23	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	836.519914	-20.00	2091
3.8	-20	836.519946	-52.00	2091
3.8	-10	836.519927	-33.00	2091
3.8	0	836.519938	-44.00	2091
3.8	10	836.519958	-64.00	2091
3.8	20	836.519894	0.00	2091
3.8	30	836.519978	-84.00	2091
3.8	40	836.519946	-52.00	2091
3.8	50	836.519933	-39.00	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	25	1879.999943	-6	4700
3.8	25	1879.999937	0	4700
3.3	25	1879.999963	-26	4700
3.3 (End point)	25	1879.999963	-26	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1879.999944	-32.00	4700
3.8	-20	1879.999931	-19.00	4700
3.8	-10	1879.999966	-54.00	4700
3.8	0	1879.999953	-41.00	4700
3.8	10	1879.999948	-36.00	4700
3.8	20	1879.999912	0.00	4700
3.8	30	1879.999960	-48.00	4700
3.8	40	1879.999967	-55.00	4700
3.8	50	1879.999970	-58.00	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1879.999992	-2.00	4700	
3.8	25	1879.999994	0.00	4700	
3.3	25	1879.999995	1.00	4700	
3.3 (End Point)	25	1879.999995	1.00	4700	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	1879.999990	-3.50	4700	
3.8	-20	1879.999991	-2.60	4700	
3.8	-10	1879.999992	-1.10	4700	
3.8	0	1879.999992	-0.90	4700	
3.8	10	1879.999993	-0.30	4700	
3.8	20	1879.999993	0.00	4700	
3.8	30	1879.999995	1.50	4700	
3.8	40	1879.999995	2.00	4700	
3.8	50	1879.999996	2.70	4700	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	1732.499976	-9.00	4331	
3.8	25	1732.499985	0.00	4331	
3.3	25	1732.499989	4.00	4331	
3.3 (End Point)	25	1732.499989	4.00	4331	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	1732.499910	-29.00	4331	
3.8	-20	1732.499916	-23.00	4331	
3.8	-10	1732.499924	-15.00	4331	
3.8	0	1732.499922	-17.00	4331	
3.8	10	1732.499933	-6.00	4331	
3.8	20	1732.499939	0.00	4331	
3.8	30	1732.499955	16.00	4331	
3.8	40	1732.499960	21.00	4331	
3.8	50	1732.499963	24.00	4331	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	836.499943	-14.00	2091	
3.8	25	836.499957	0.00	2091	
3.3	25	836.499963	6.00	2091	
3.3 (End Point)	25	836.499963	6.00	2091	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	836.499932	-29.00	2091	
3.8	-20	836.499935	-26.00	2091	
3.8	-10	836.499947	-14.00	2091	
3.8	0	836.499959	-2.00	2091	
3.8	10	836.499947	-14.00	2091	
3.8	20	836.499961	0.00	2091	
3.8	30	836.499964	3.00	2091	
3.8	40	836.499967	6.00	2091	
3.8	50	836.499974	13.00	2091	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: LTE B13 Mid Channel			782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	781.999976	-3.00	1955	
3.8	25	781.999979	0.00	1955	
3.3	25	781.999988	9.00	1955	
3.3 (End Point)	25	781.999988	9.00	1955	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: LTE B13 Mid Channel			782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	781.999939	-29.00	1955	
3.8	-20	781.999946	-22.00	1955	
3.8	-10	781.999950	-18.00	1955	
3.8	0	781.999954	-14.00	1955	
3.8	10	781.999957	-11.00	1955	
3.8	20	781.999968	0.00	1955	
3.8	30	781.999978	10.00	1955	
3.8	40	781.999974	6.00	1955	
3.8	50	781.999971	3.00	1955	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: LTE B17 Mid Channel			710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.35	25	709.999973	11.00	1775	
3.8	25	709.999962	0.00	1775	
3.3	25	709.999970	8.00	1775	
3.3 (End Point)	25	709.999970	8.00	1775	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: LTE B17 Mid Channel			710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	709.999932	-31.00	1775	
3.8	-20	709.999938	-25.00	1775	
3.8	-10	709.999951	-12.00	1775	
3.8	0	709.999954	-9.00	1775	
3.8	10	709.999958	-5.00	1775	
3.8	20	709.999963	0.00	1775	
3.8	30	709.999971	8.00	1775	
3.8	40	709.999971	8.00	1775	
3.8	50	709.999968	5.00	1775	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: LTE B25 Mid Channel		1882.5	MHz	20M QPSK
				CH 26365
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.35	25	1882.499966	-9.00	4706
3.8	25	1882.499975	0.00	4706
3.3	25	1882.499982	7.00	4706
3.3 (End Point)	25	1882.499982	7.00	4706

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: LTE B25 Mid Channel		1882.5	MHz	20M QPSK
				CH 26365
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	-30	1882.499946	-22.00	4706
3.8	-20	1882.499954	-14.00	4706
3.8	-10	1882.499955	-13.00	4706
3.8	0	1882.499960	-8.00	4706
3.8	10	1882.499966	-2.00	4706
3.8	20	1882.499968	0.00	4706
3.8	30	1882.499972	4.00	4706
3.8	40	1882.499978	10.00	4706
3.8	50	1882.499972	4.00	4706

**Note: The battery is rated 3.8Vdc.**

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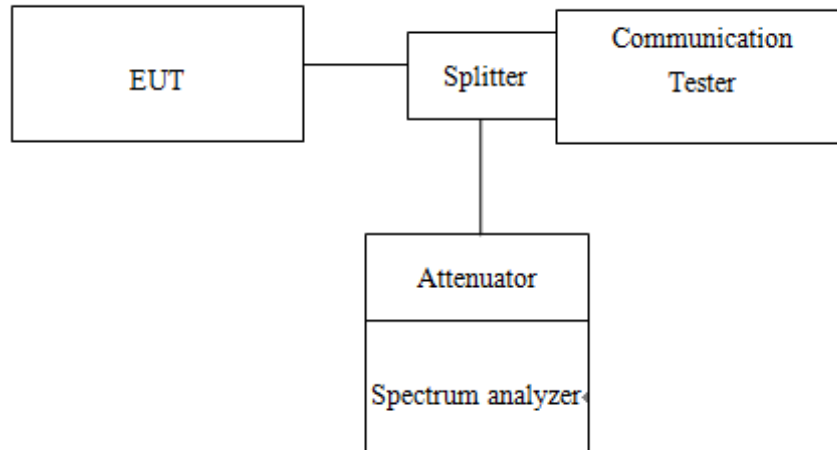
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## 12. PEAK TO AVERAGE RATIO

### 12.1. Standard Applicable

The peak-to-average ration (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  $\geq$  signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

### 12.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	06/03/2014	06/02/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2014	05/30/2015

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## 12.5. Measurement Result

### Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
824.20	128	10.02	9.57
836.60	190	10.28	9.49
848.80	251	9.60	10.15

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
1850.20	512	10.35	9.57
1880.00	661	10.14	10.02
1909.80	810	10.00	9.59

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	3.14	4.00	4.31
1880.00	9400	2.96	3.90	3.68
1909.80	9538	2.73	3.69	3.62

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.06	3.73	3.78
1732.6	1413	3.06	3.86	3.82
1752.6	1513	2.90	3.67	3.77

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.07	4.11	4.08
836.60	4183	3.03	3.72	4.02
846.60	4233	3.08	3.57	3.76

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC0	EVDO BC0
1850.20	9262	3.81	3.82
1880.00	9400	3.93	3.90
1909.80	9538	3.99	3.98

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC1	EVDO BC1
826.40	4132	4.18	4.16
836.60	4183	3.96	3.90
846.60	4233	3.55	3.57

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	6.38	13	1851.5	18615	6.39	13
1880.0	18900	6.09	13	1880.0	18900	6.03	13
1909.3	19193	5.97	13	1908.5	19185	5.98	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	6.50	13	1855.0	18650	6.23	13
1880.0	18900	6.15	13	1880.0	18900	6.03	13
1907.5	19175	5.82	13	1905.0	19150	5.76	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.80	13	1860.0	18700	7.11	13
1880.0	18900	6.69	13	1880.0	18900	7.18	13
1902.5	19125	6.63	13	1900.0	19100	7.09	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.59	13	1711.5	19965	6.39	13
1732.5	20175	6.34	13	1732.5	20175	6.35	13
1754.3	20393	6.03	13	1753.5	20385	6.12	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	6.48	13	1715.0	20000	6.24	13
1732.5	20175	6.35	13	1732.5	20175	6.22	13
1752.5	20375	6.12	13	1750.0	20350	6.31	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	7.72	13	1720.0	20050	7.14	13
1732.5	20175	7.79	13	1732.5	20175	7.16	13
1747.5	20325	6.01	13	1745.0	20300	7.17	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	6.50	13	825.5	20415	6.43	13
836.5	20525	6.52	13	836.5	20525	6.40	13
848.3	20643	6.51	13	847.5	20635	6.52	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	6.40	13	2505.0	20800	6.29	13
836.5	20525	6.42	13	2535.0	21100	6.27	13
846.5	20625	6.37	13	2565.0	21400	6.07	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	6.59	13	23230	782	6.43	13
782.0	23230	6.70	13				
782.0	23255	6.65	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	6.53	13	709	23780	6.29	13
710.0	23790	6.43	13	710	23790	6.25	13
713.5	23825	6.51	13	711	23800	6.22	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	26047	6.48	13	1851.5	26055	6.36	13
1882.5	26365	6.23	13	1882.5	26365	6.32	13
1914.3	26683	6.07	13	1913.5	26675	6.43	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	26065	6.47	13	1855.0	26090	6.31	13
1882.5	26365	6.25	13	1882.5	26365	6.12	13
1912.5	26665	6.46	13	1910.0	26640	6.09	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	26115	6.83	13	1860.0	26140	7.14	13
1882.5	26365	6.71	13	1882.5	26365	7.02	13
1907.5	26615	6.62	13	1905.0	26590	6.90	13

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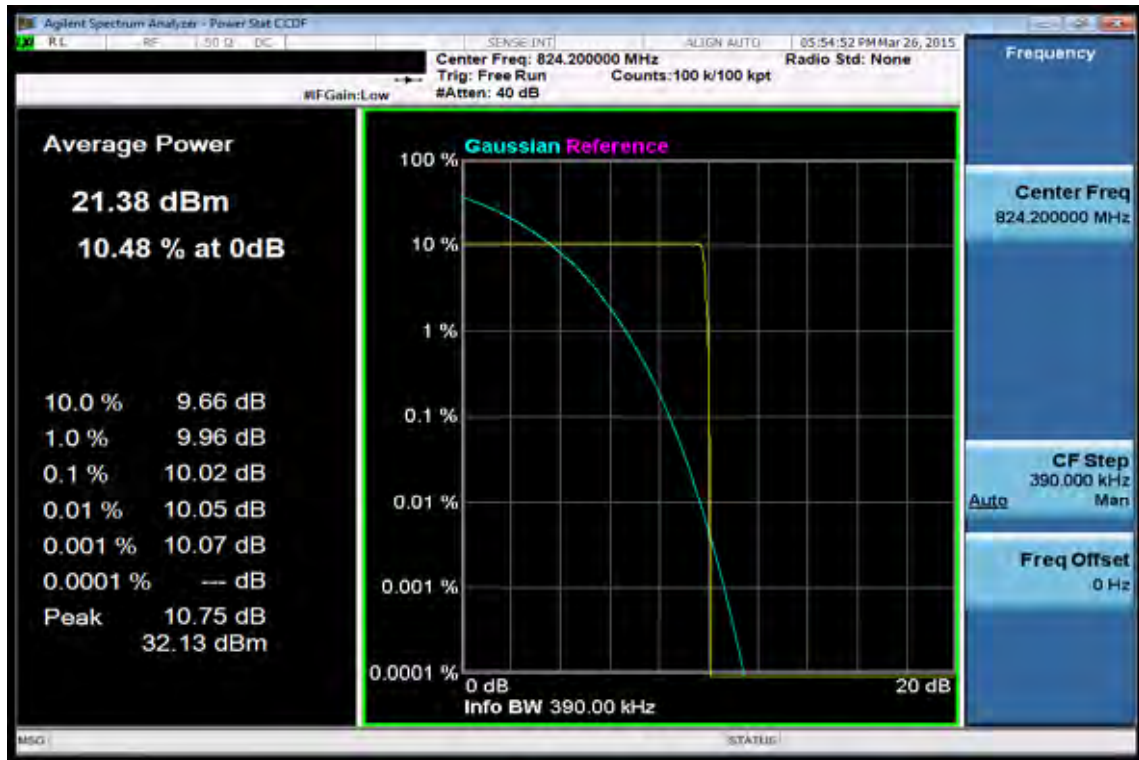
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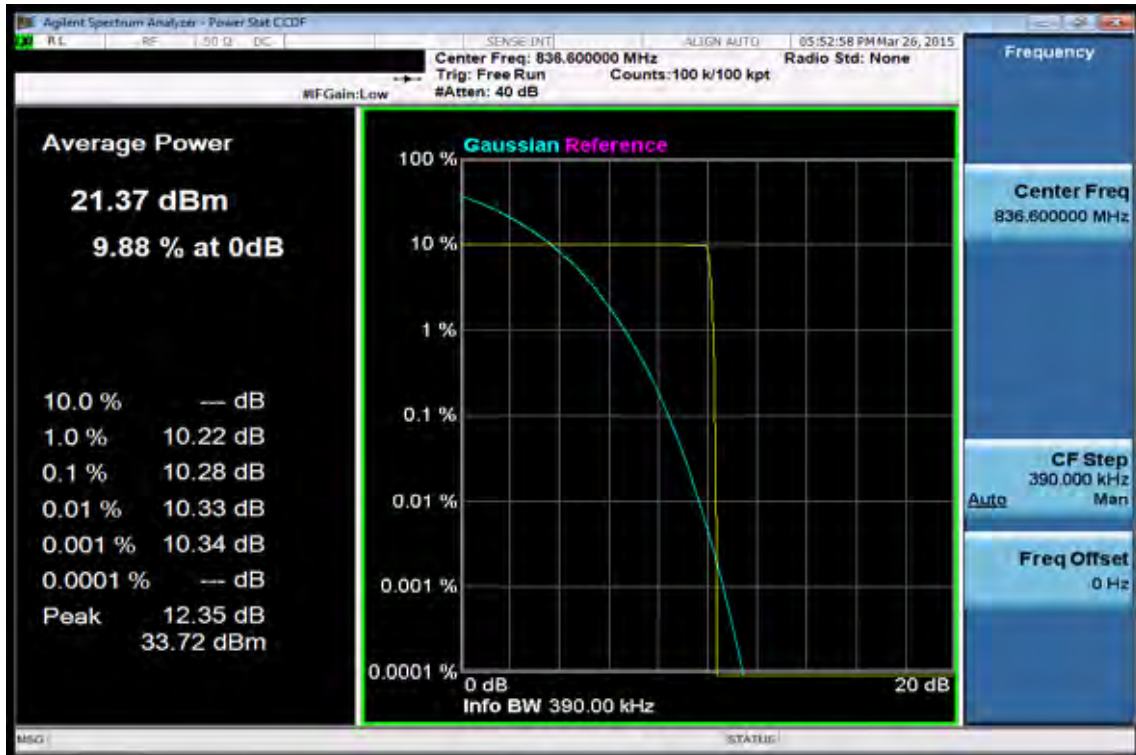
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Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid



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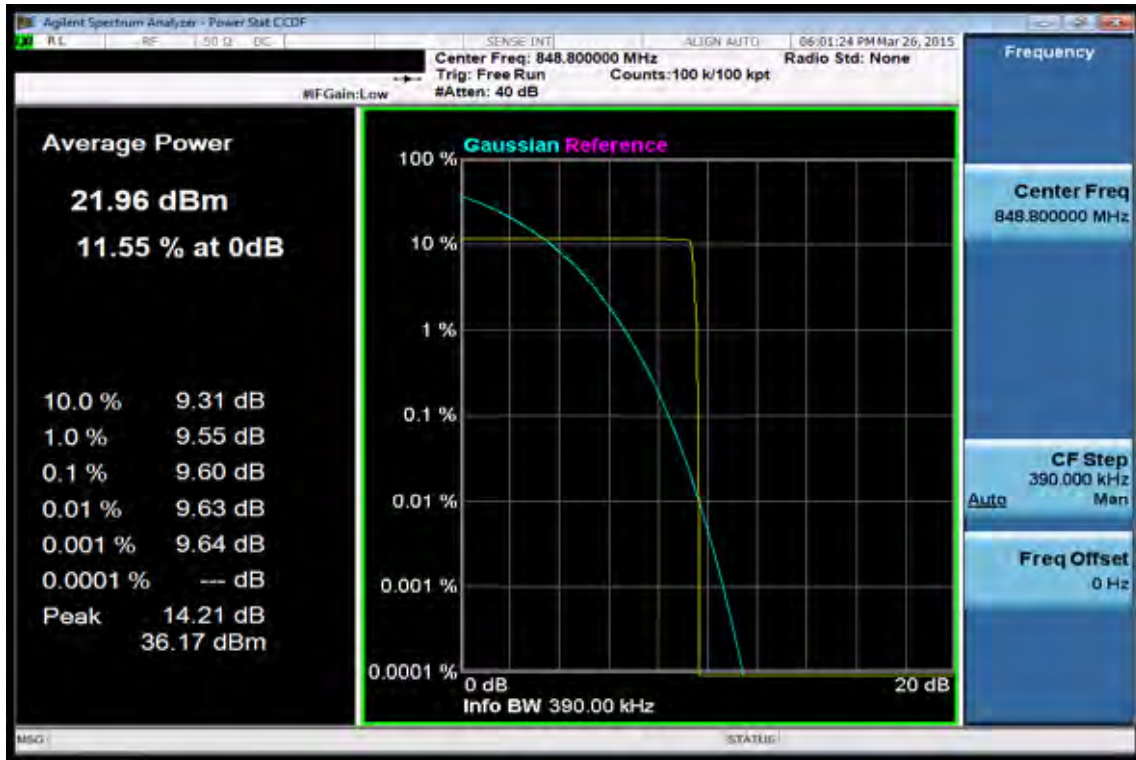
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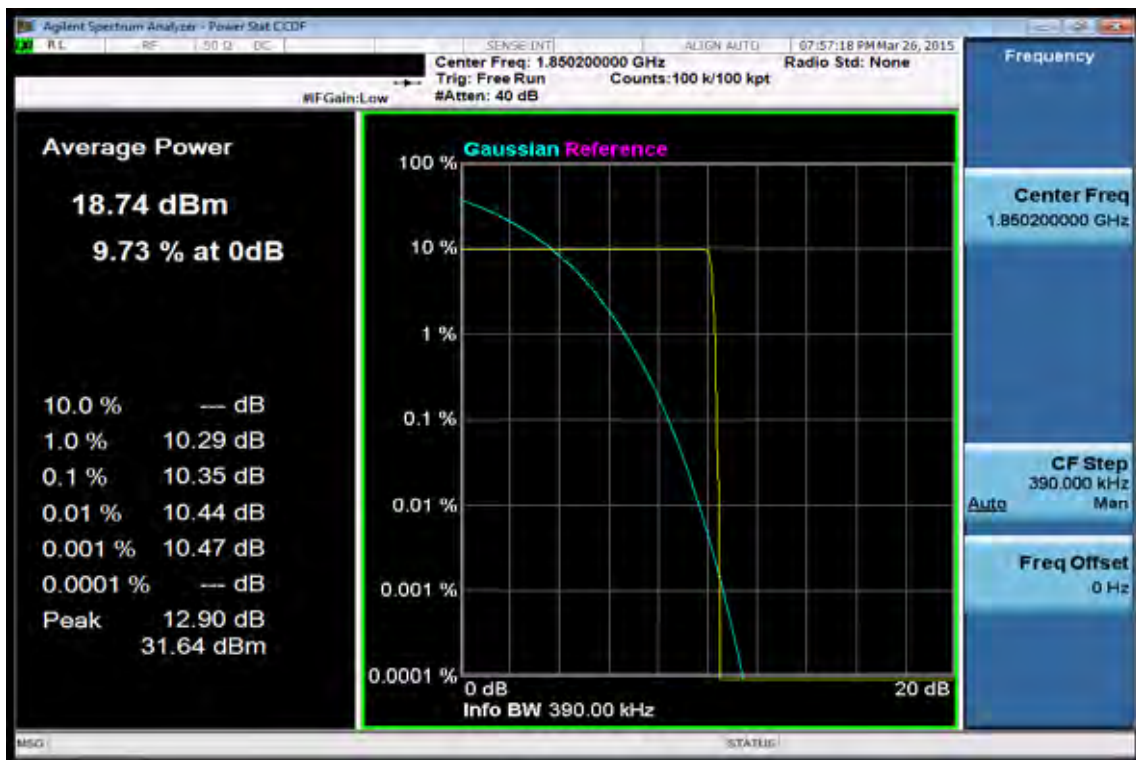
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GPRS 850 Channel High



GPRS 1900 Channel Low



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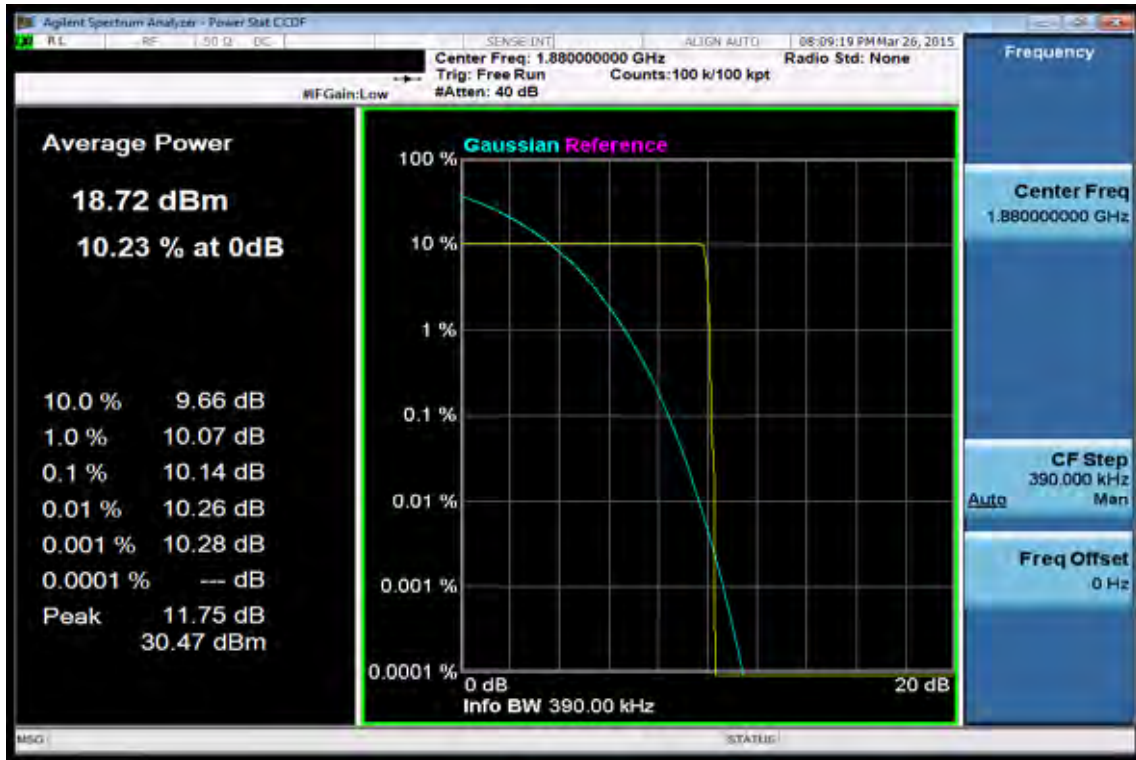
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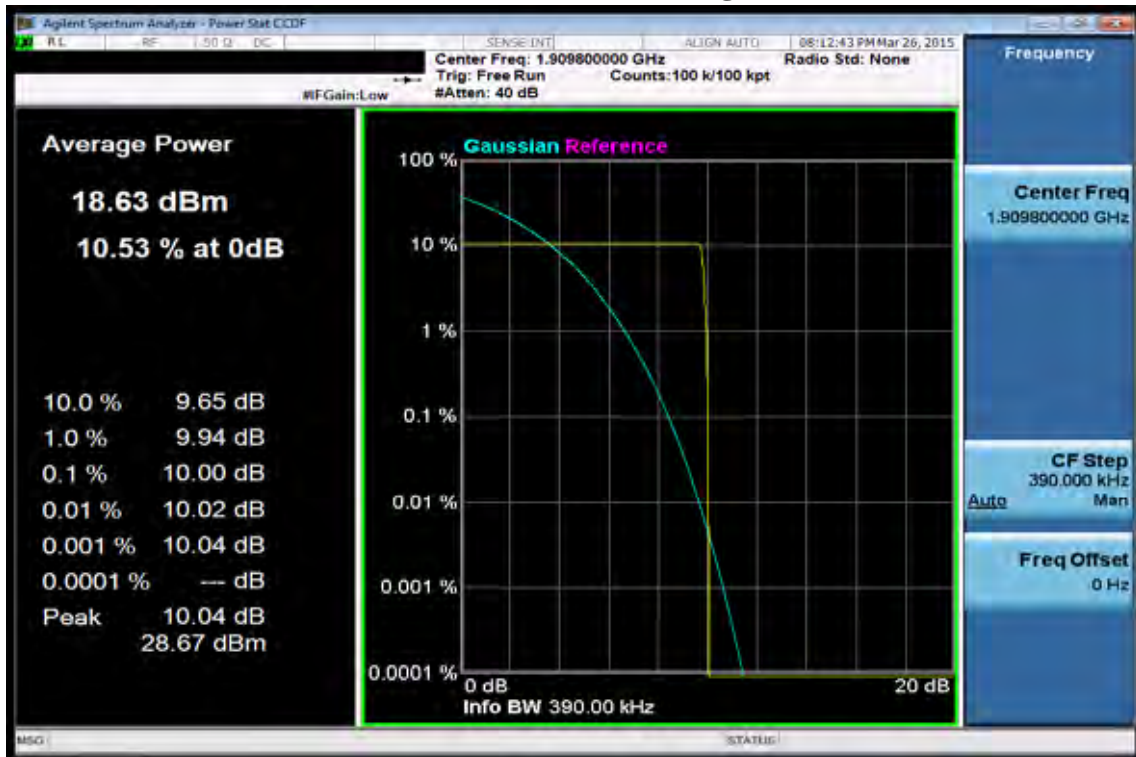
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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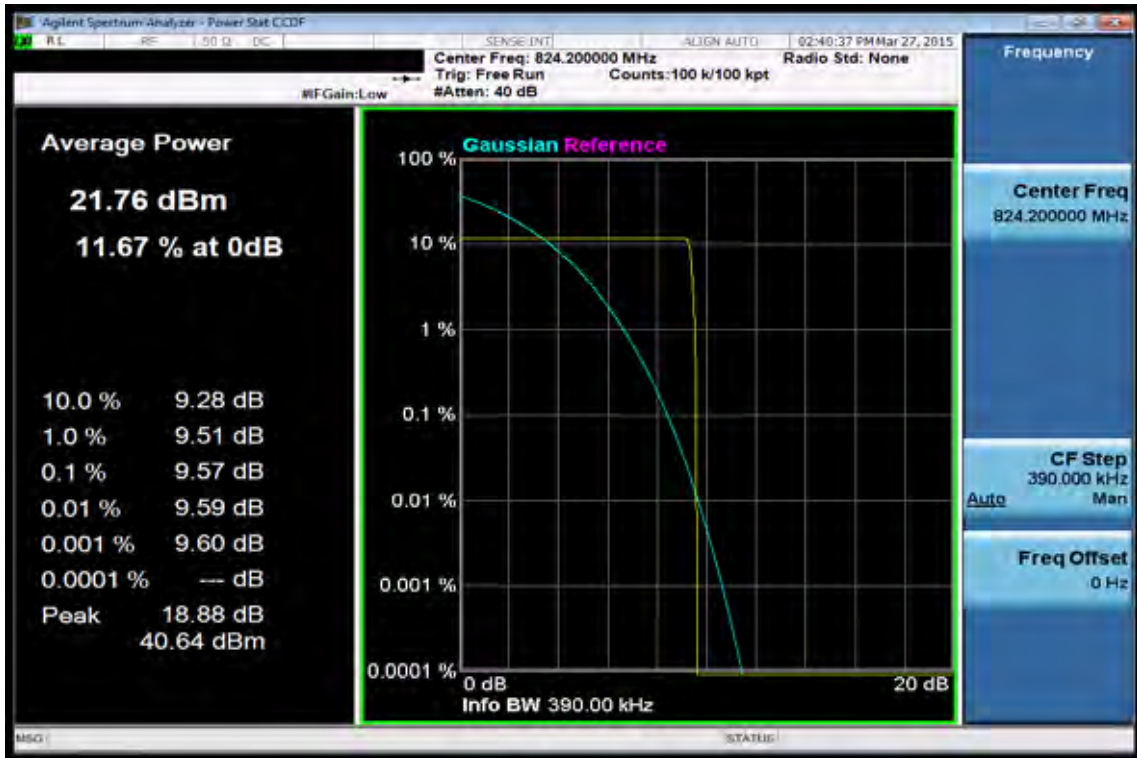
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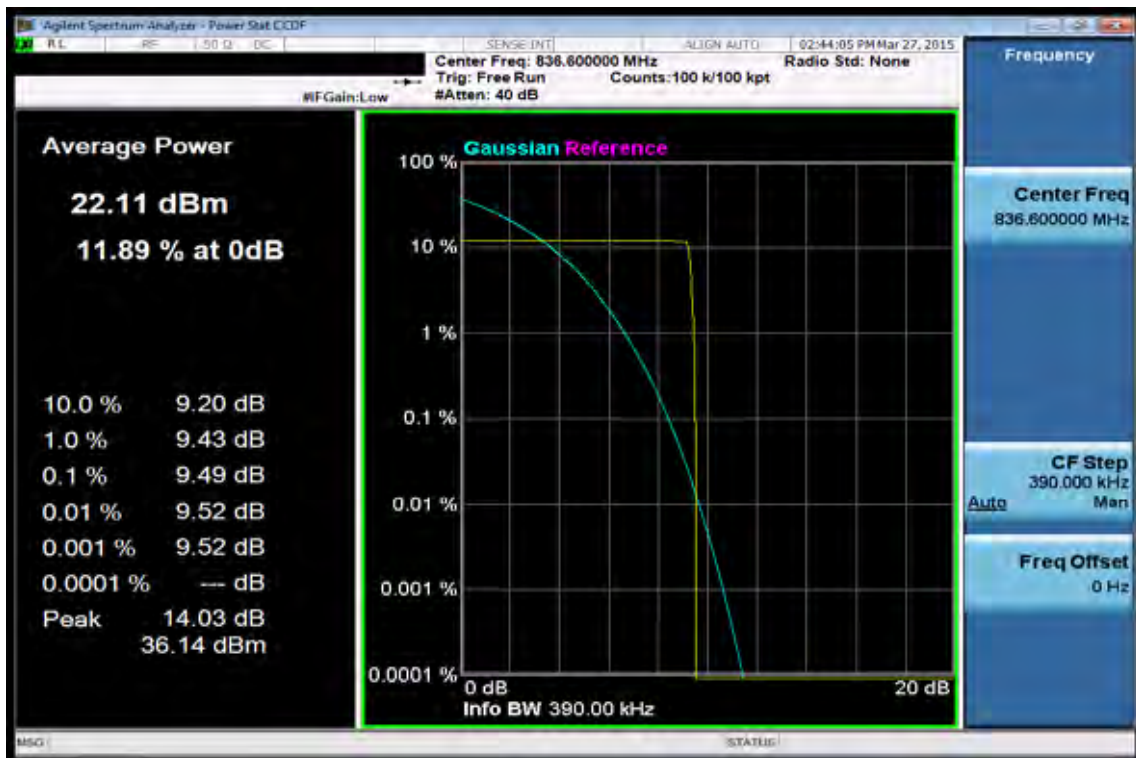
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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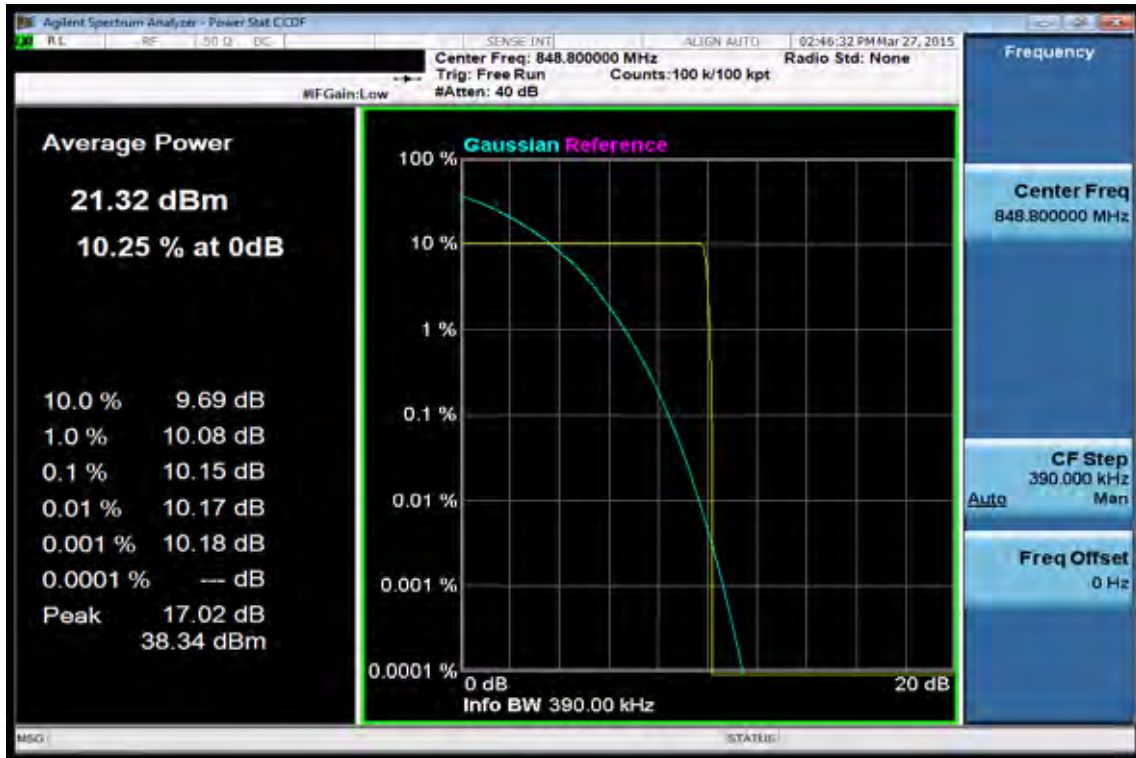
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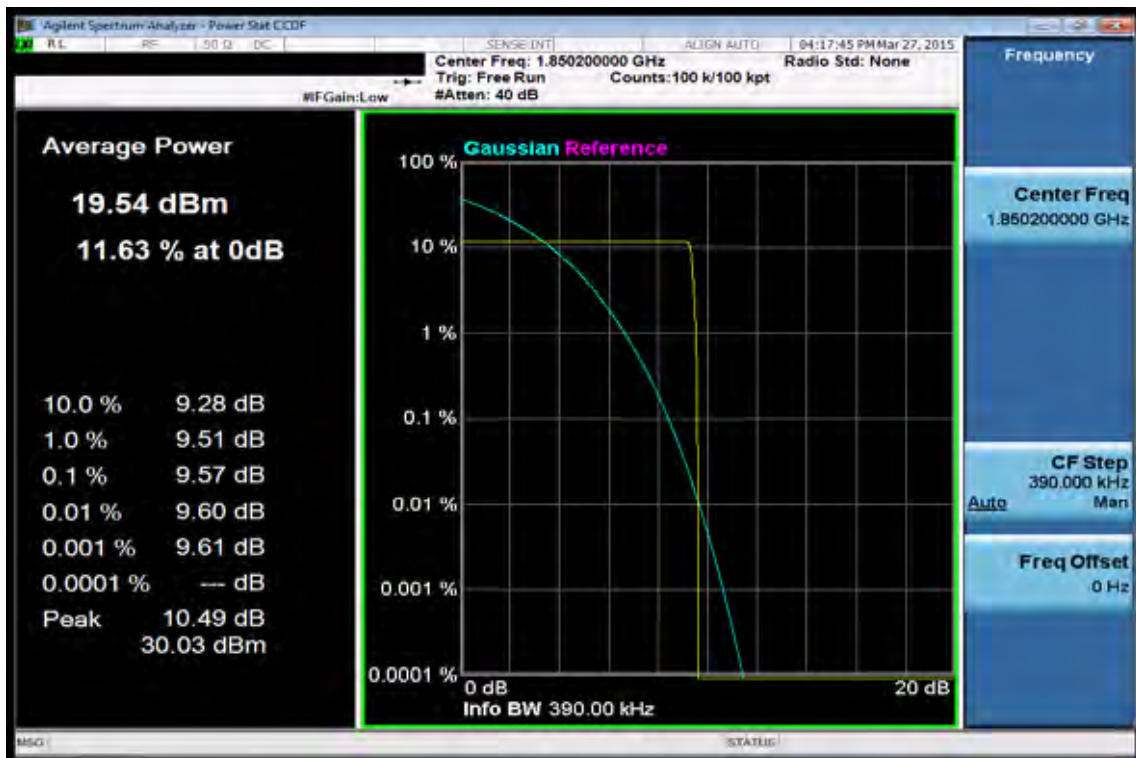
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**EDGE 850 Channel High**



**EDGE 1900 Channel Low**



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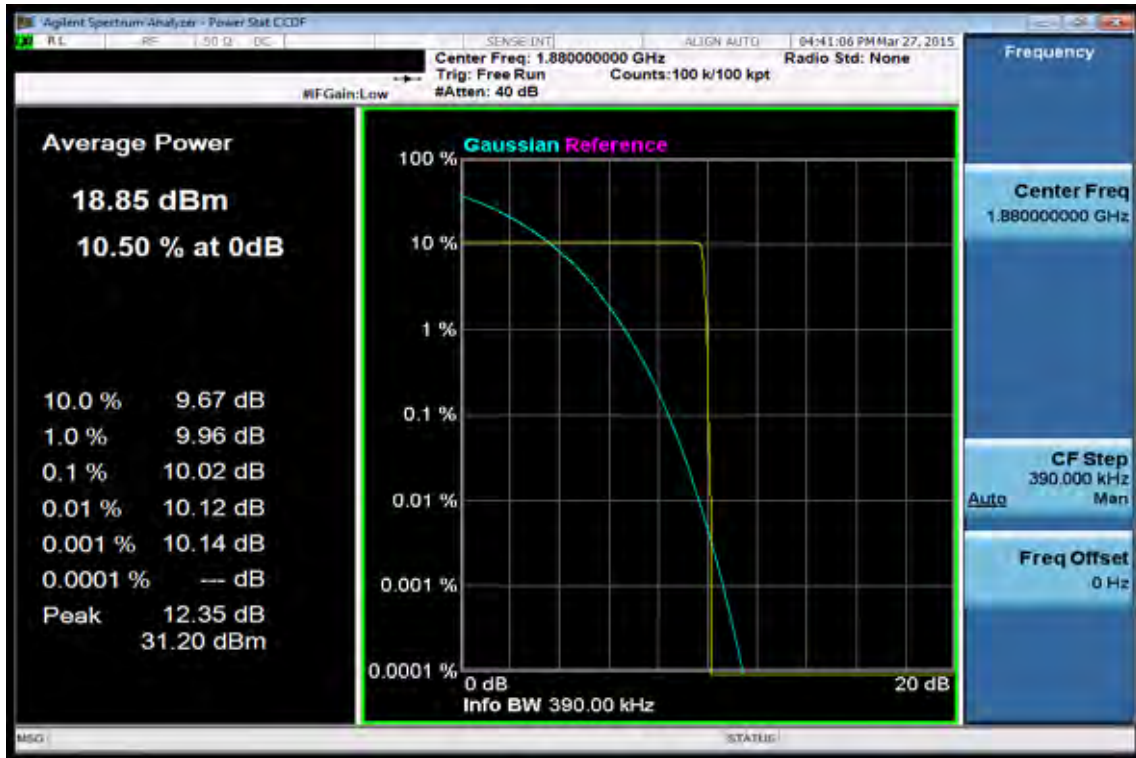
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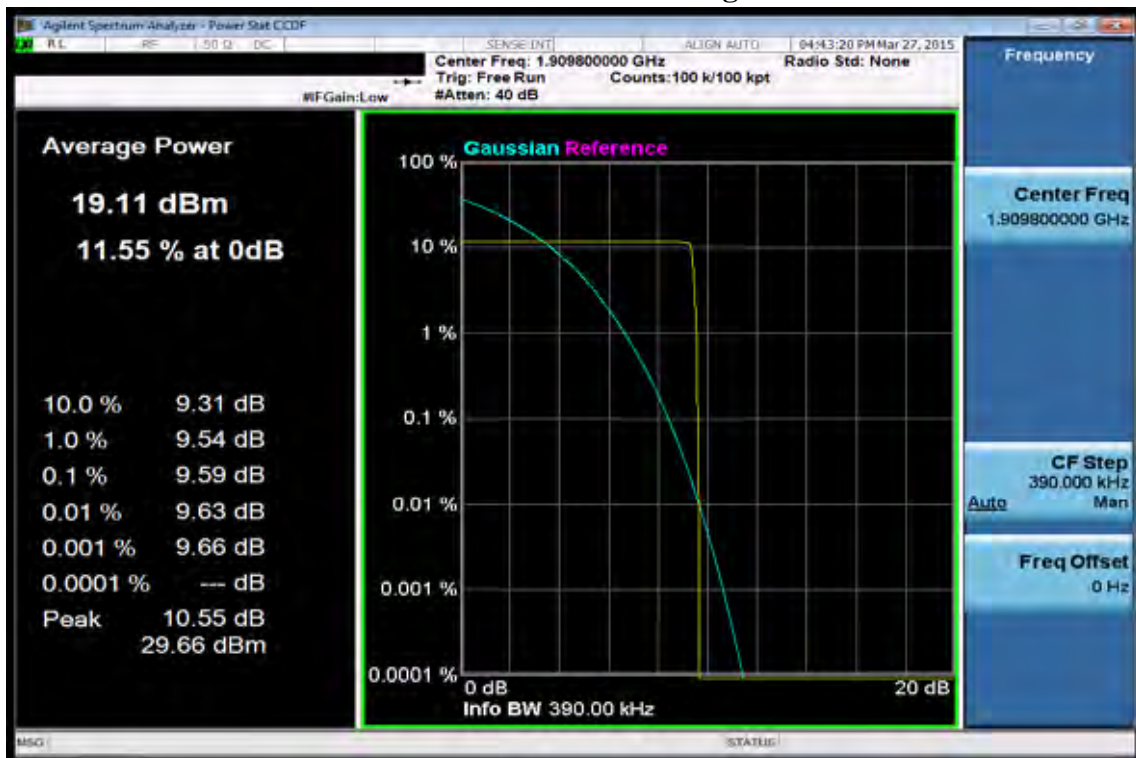
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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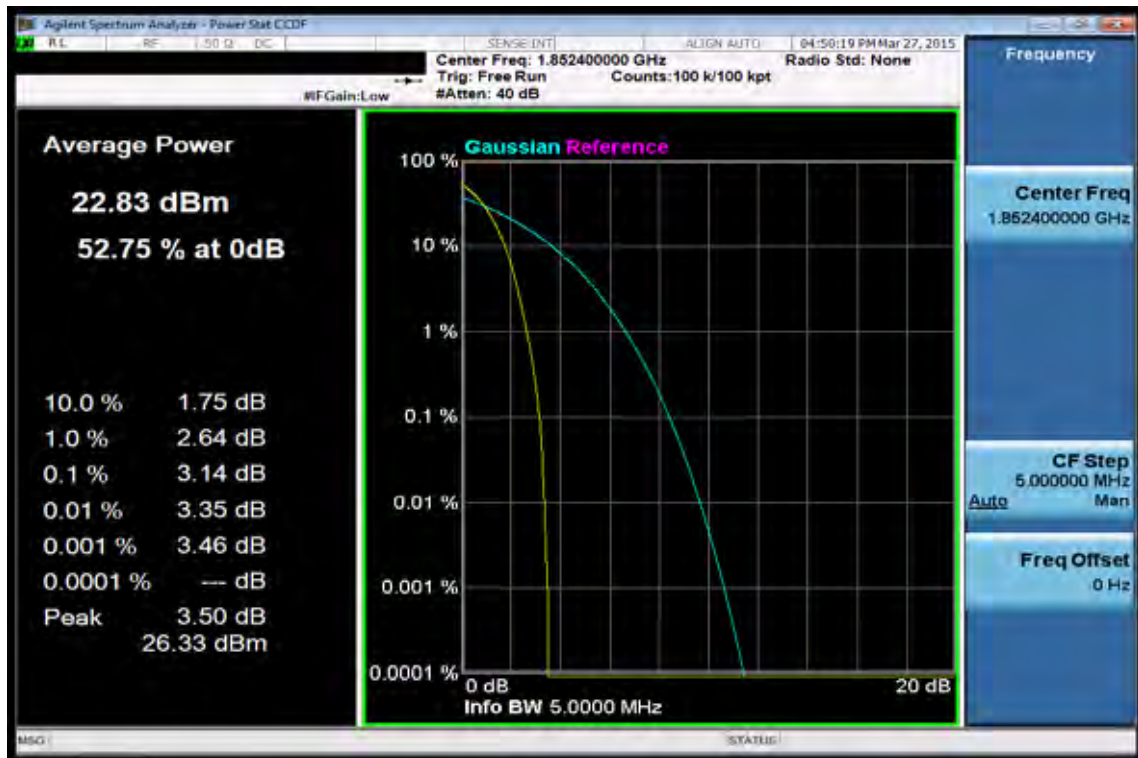
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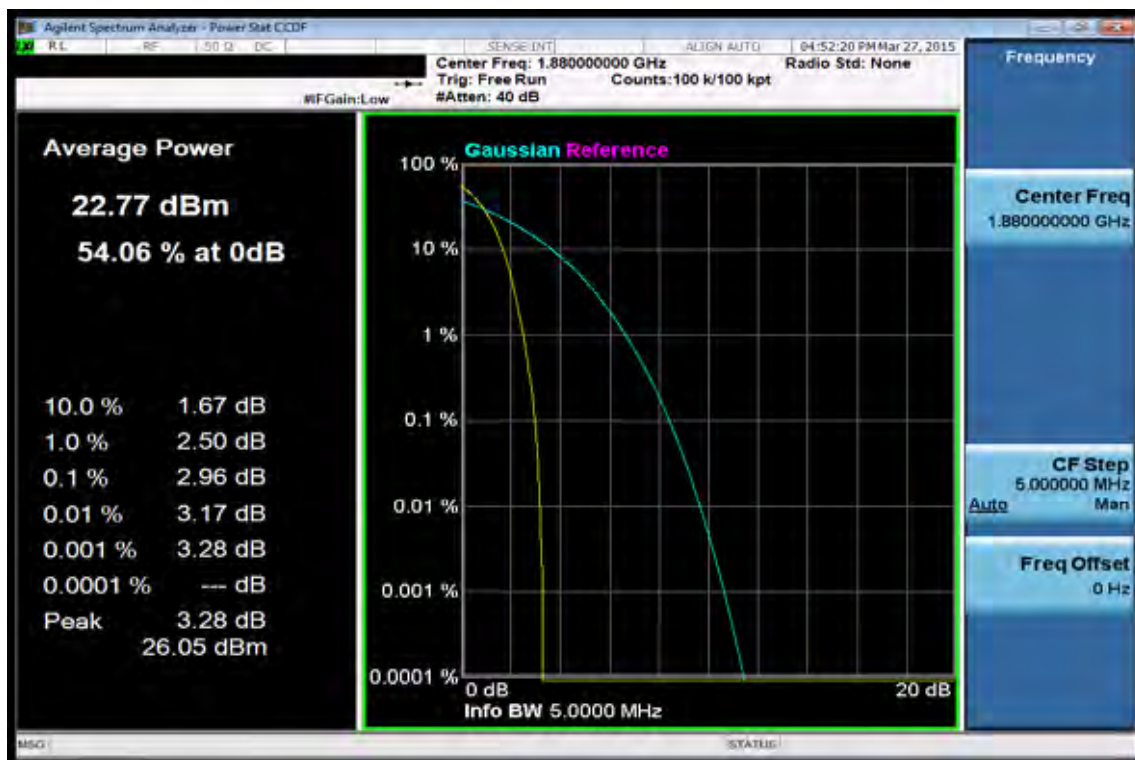
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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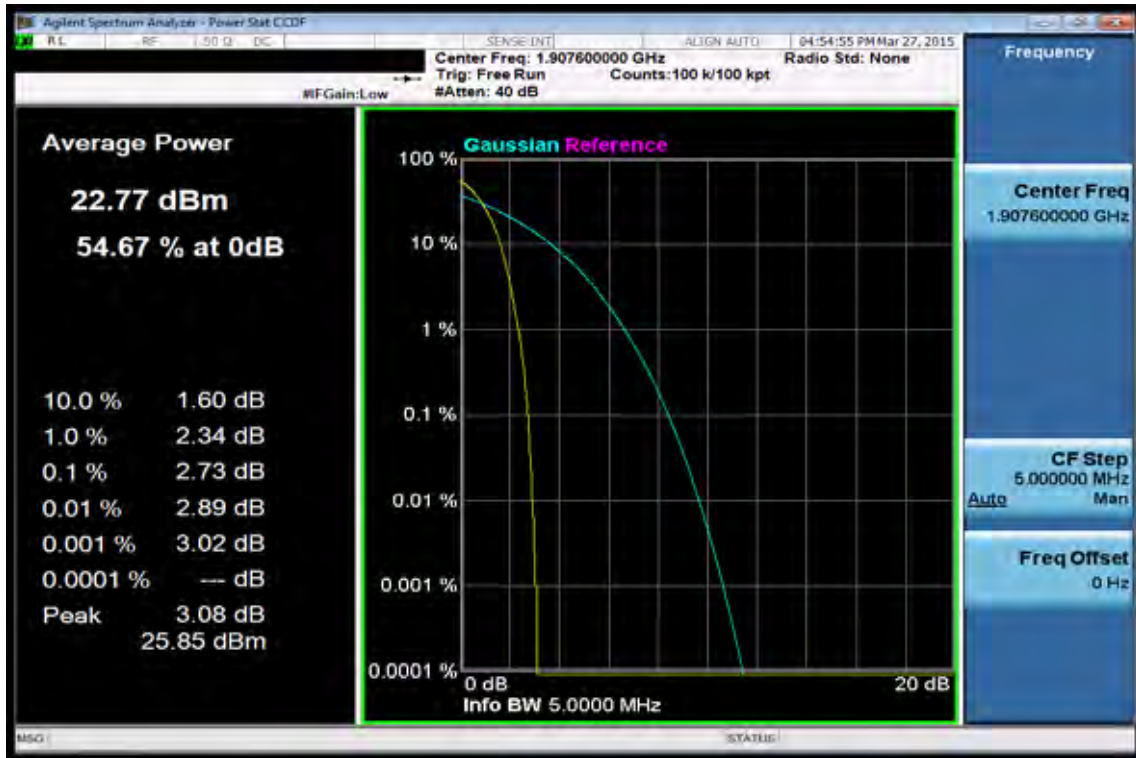
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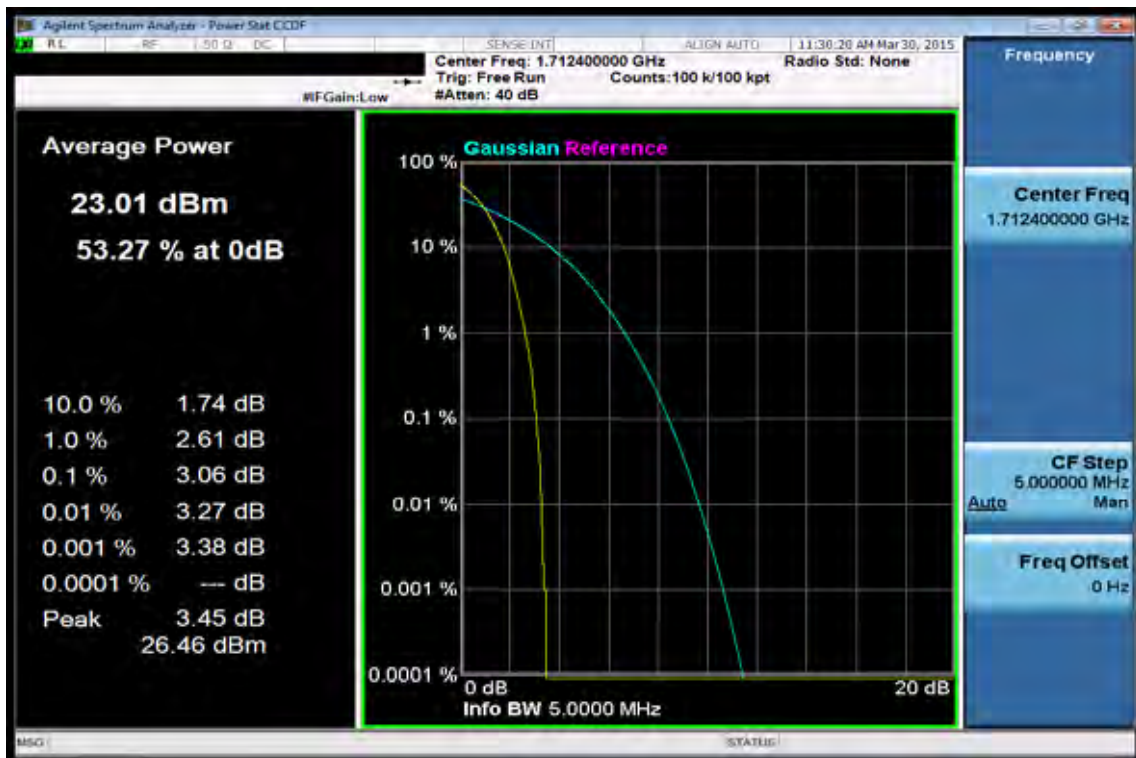
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WCDMA Band II Channel High



WCDMA Band IV Channel Low



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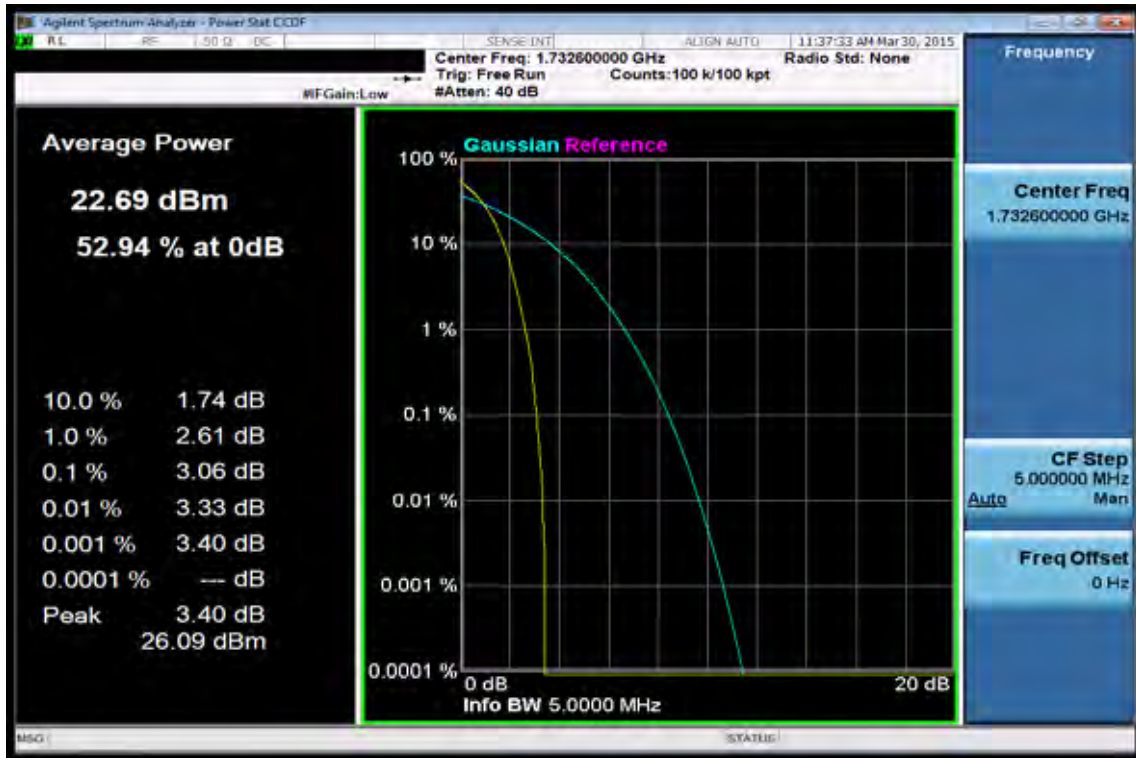
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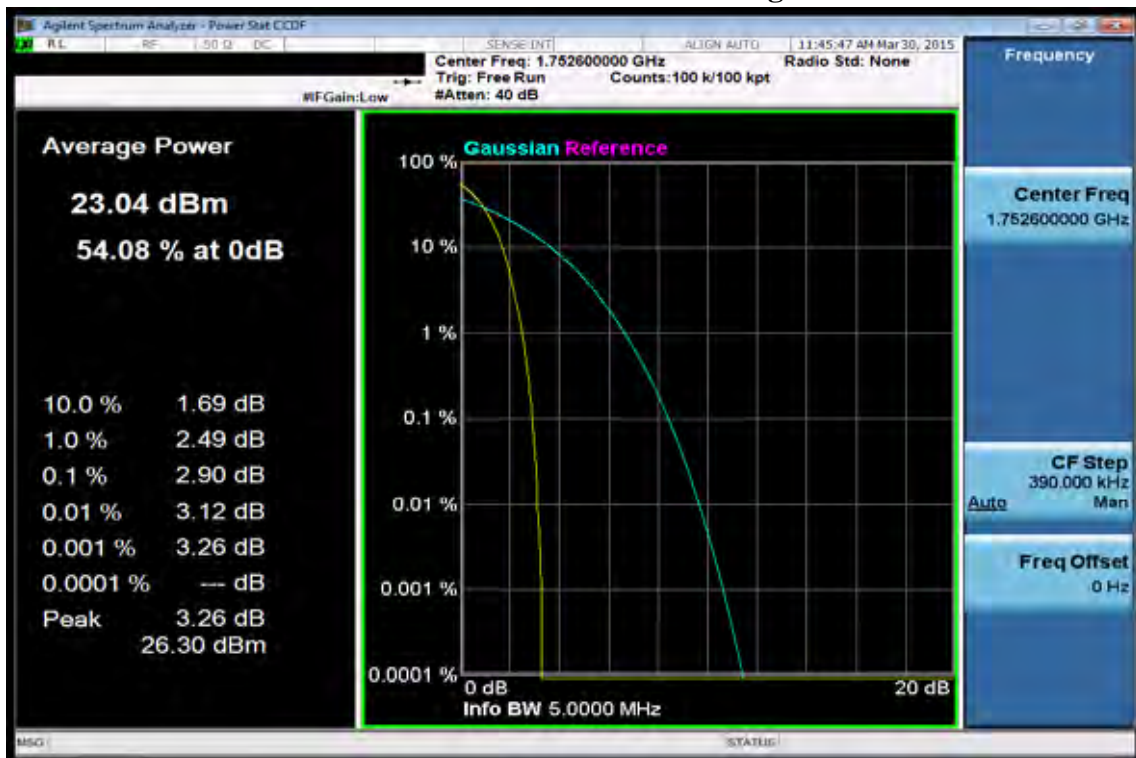
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WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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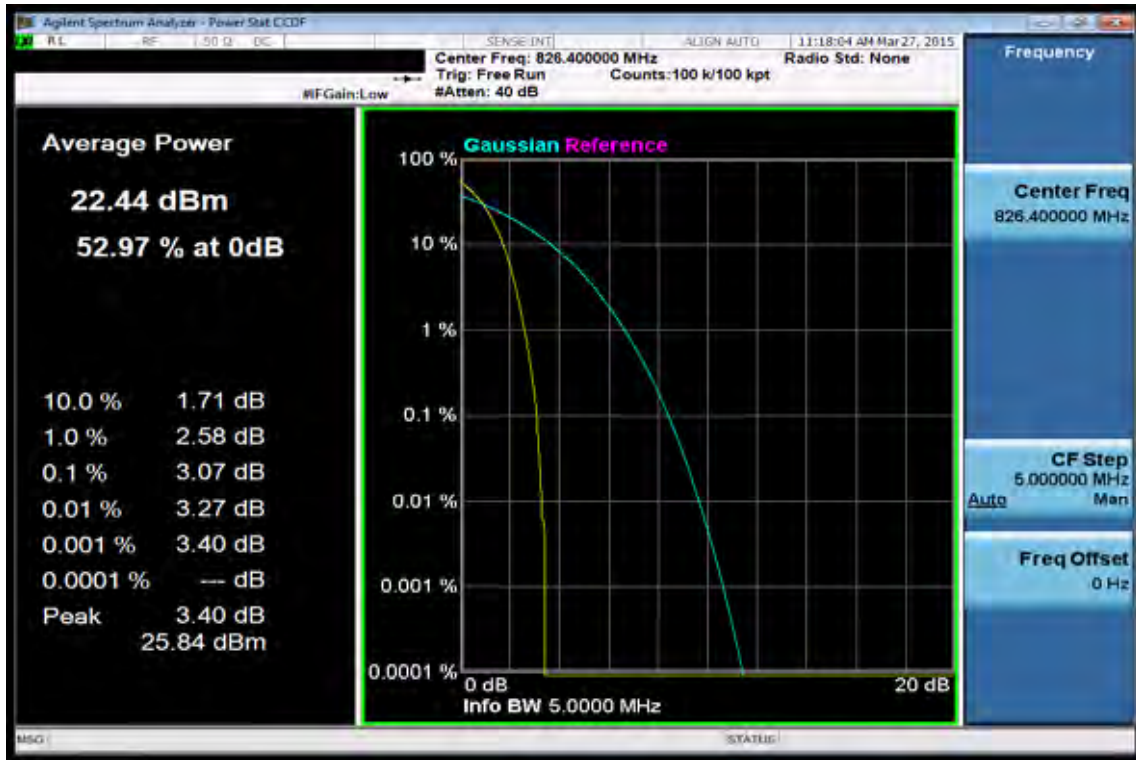
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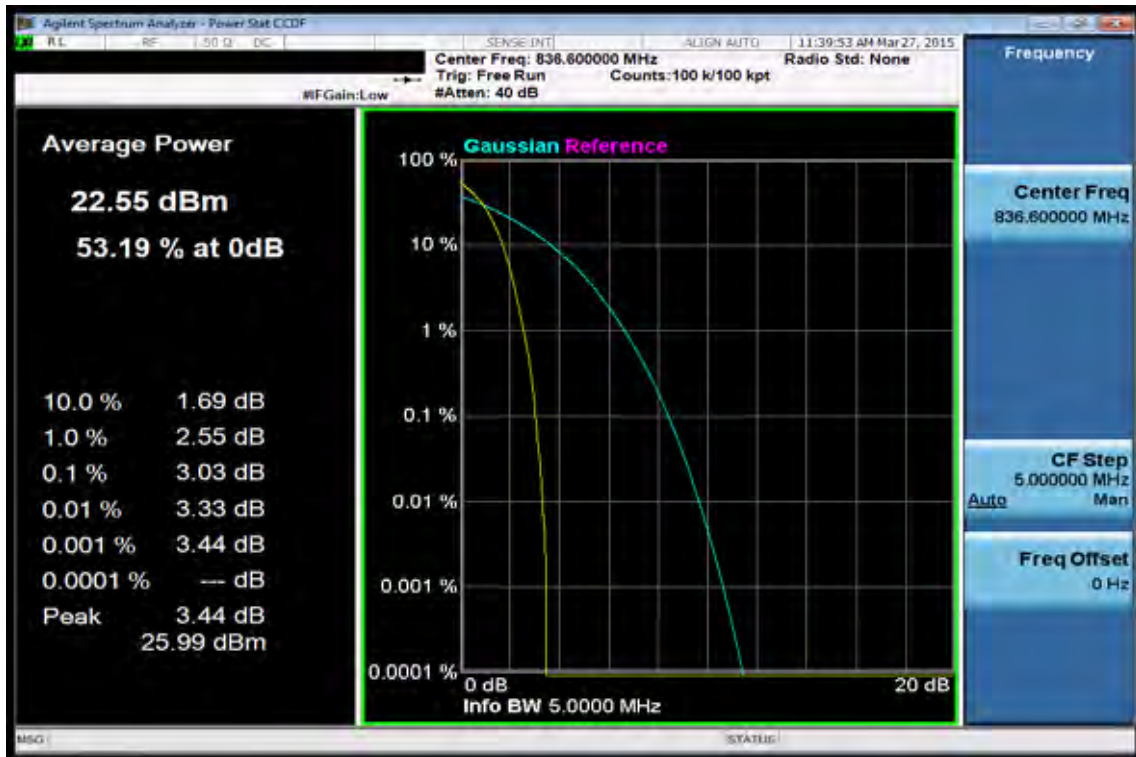
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WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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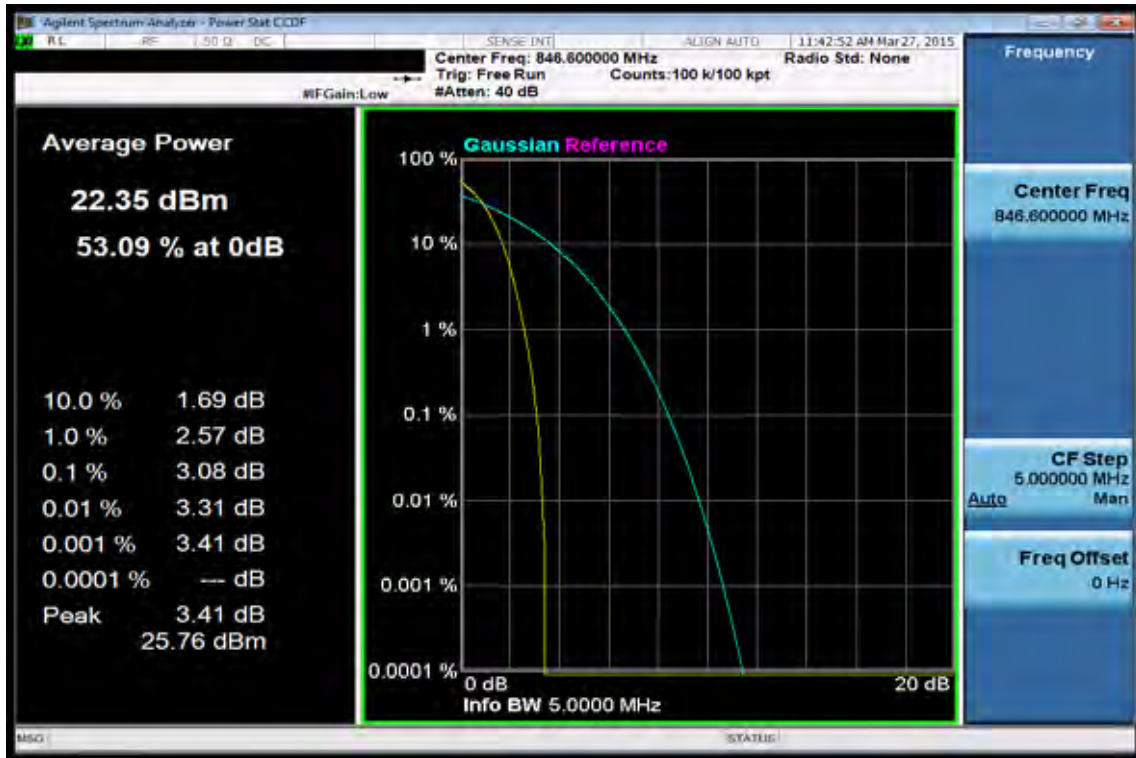
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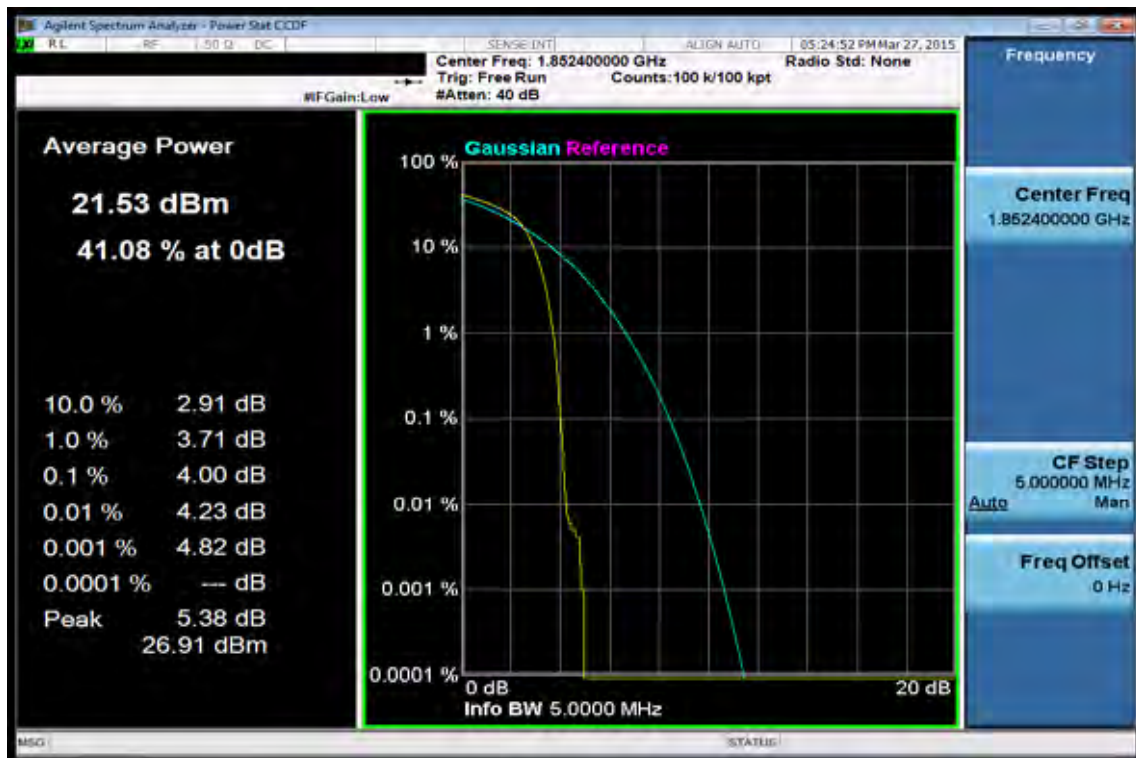
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WCDMA Band V Channel High



HSDPA Band II Channel Low



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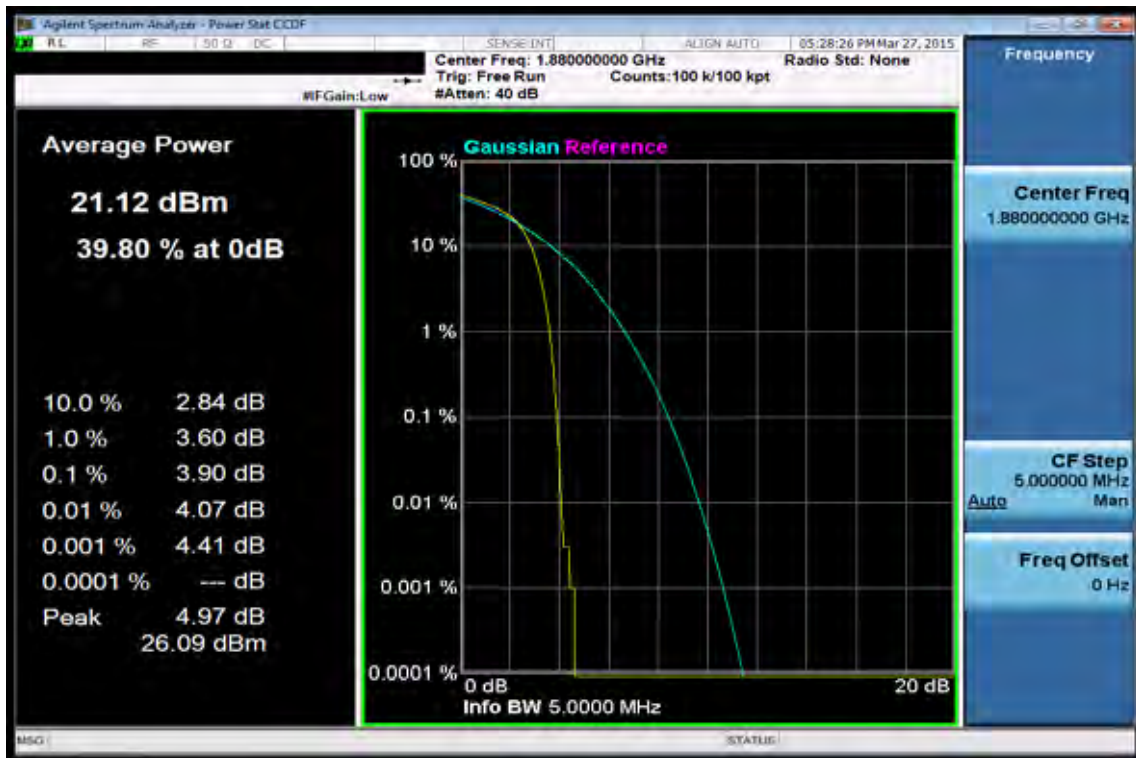
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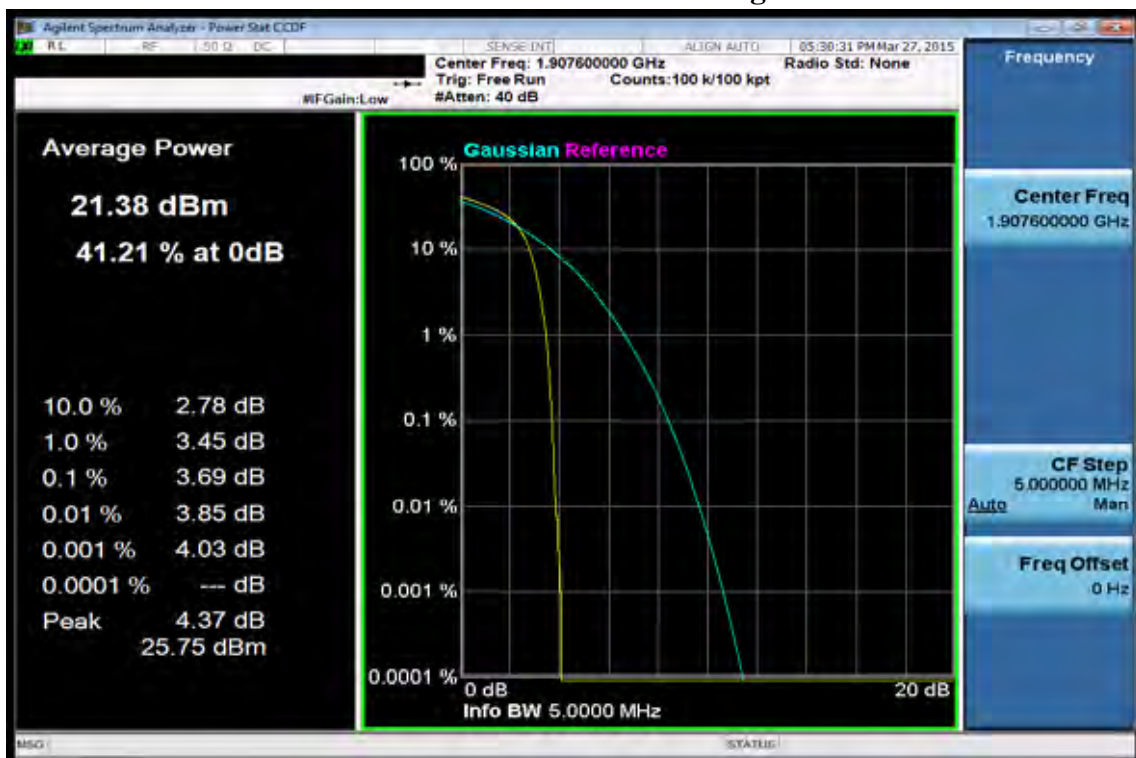
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### HSDPA Band II Channel Mid



### HSDPA Band II Channel High



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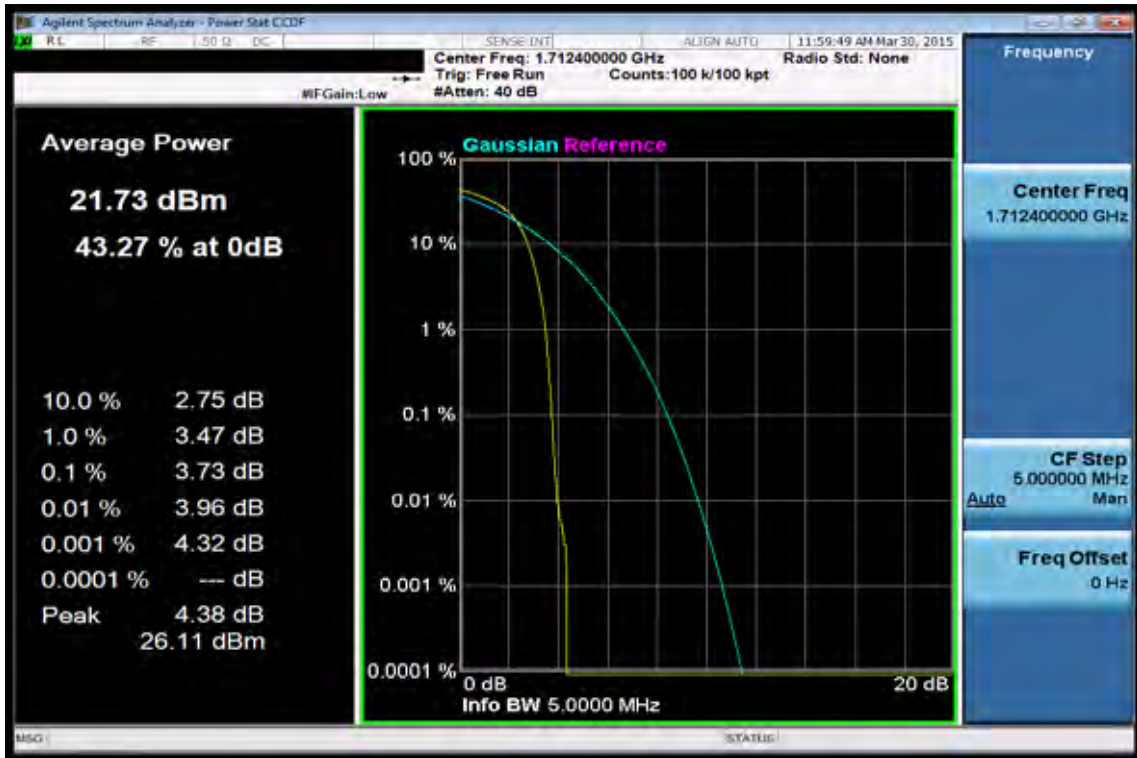
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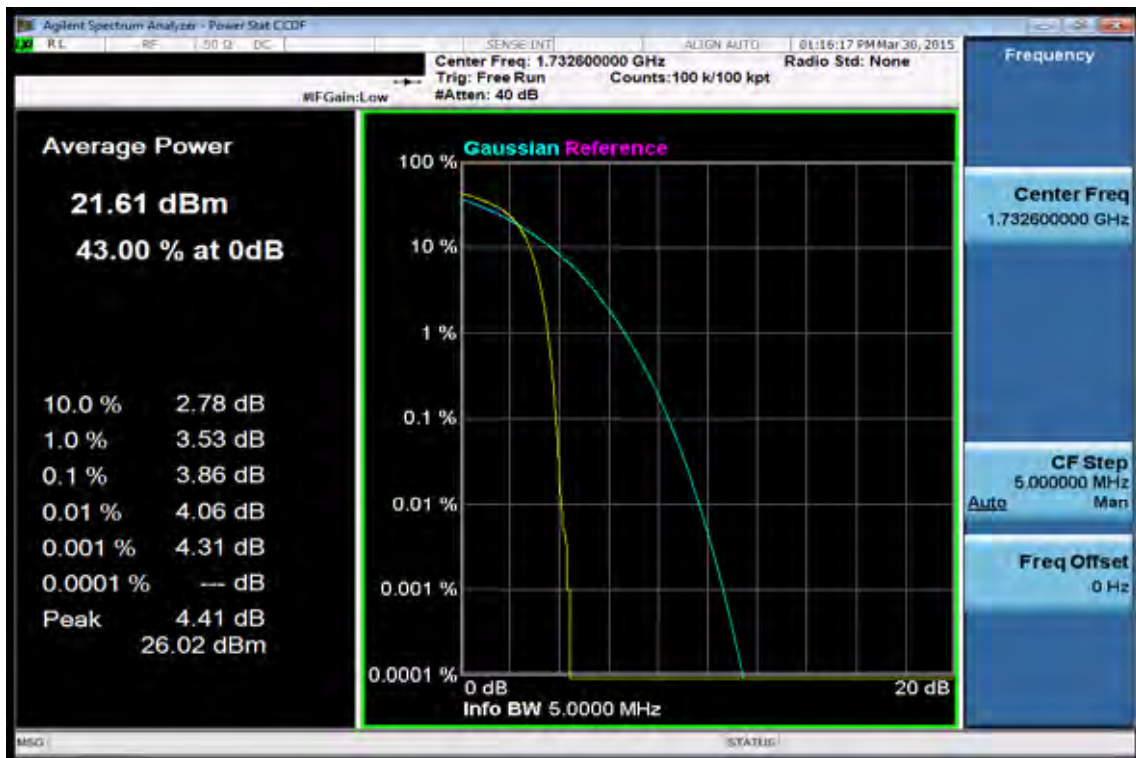
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HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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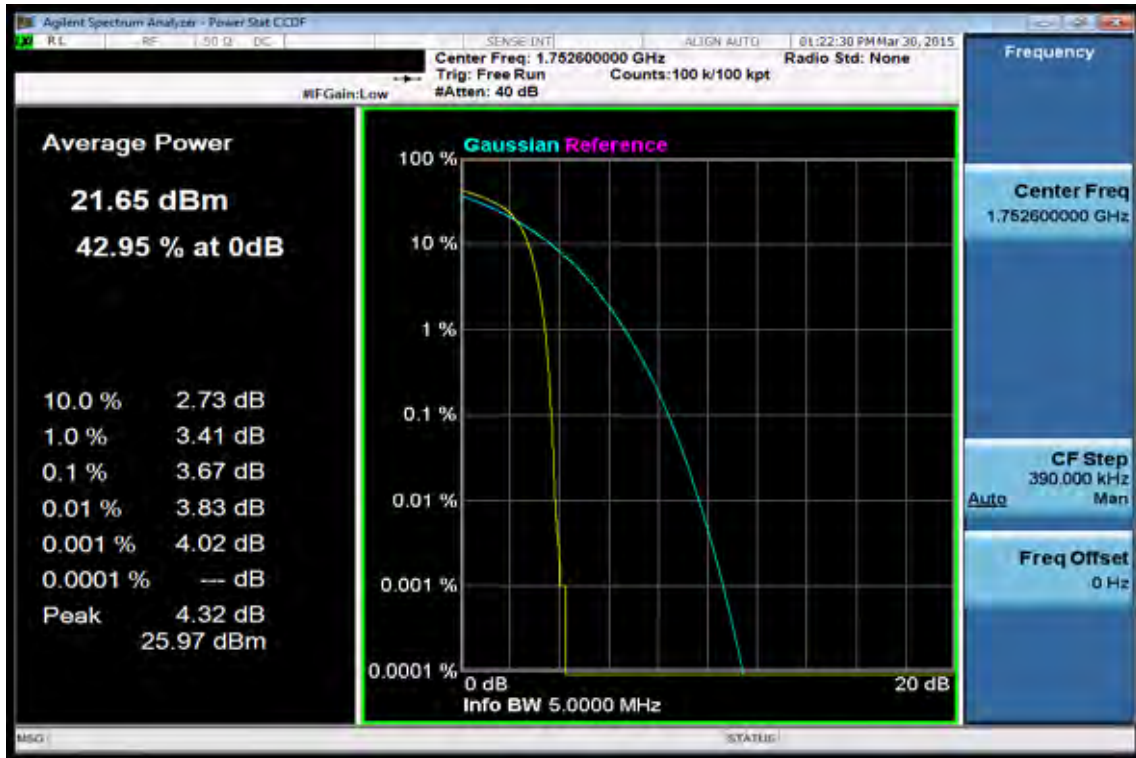
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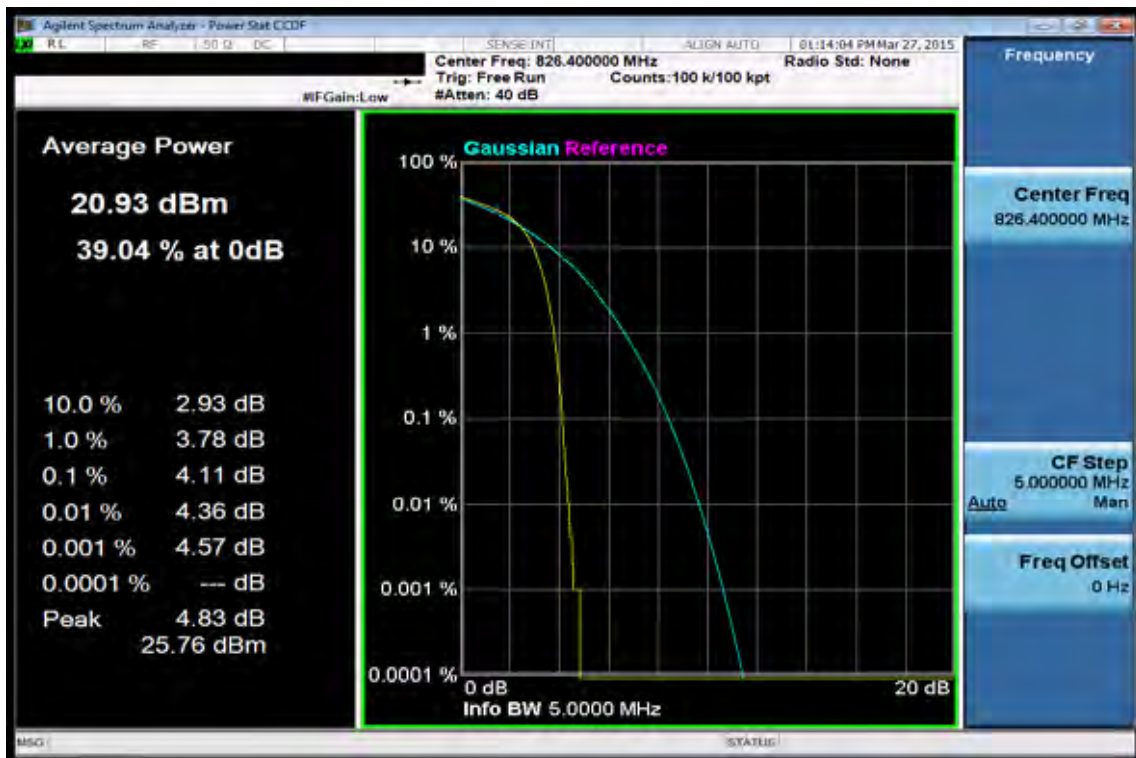
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**HSDPA Band IV Channel High**



**HSDPA Band V Channel Low**



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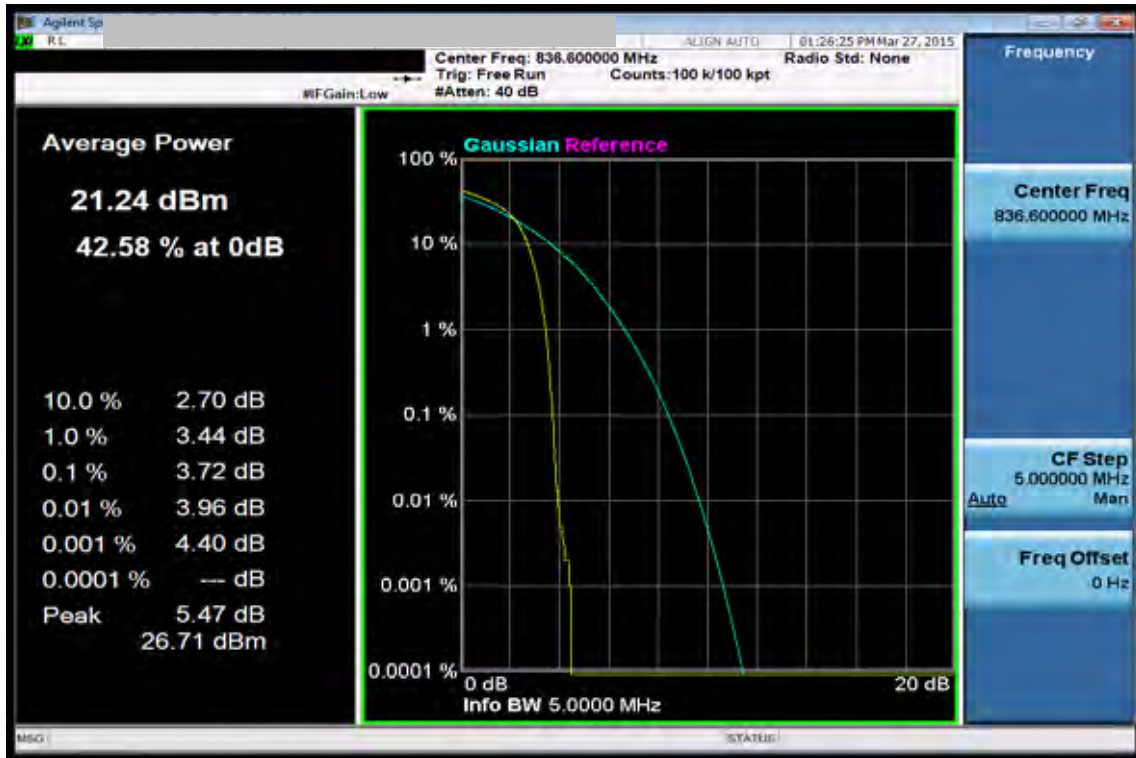
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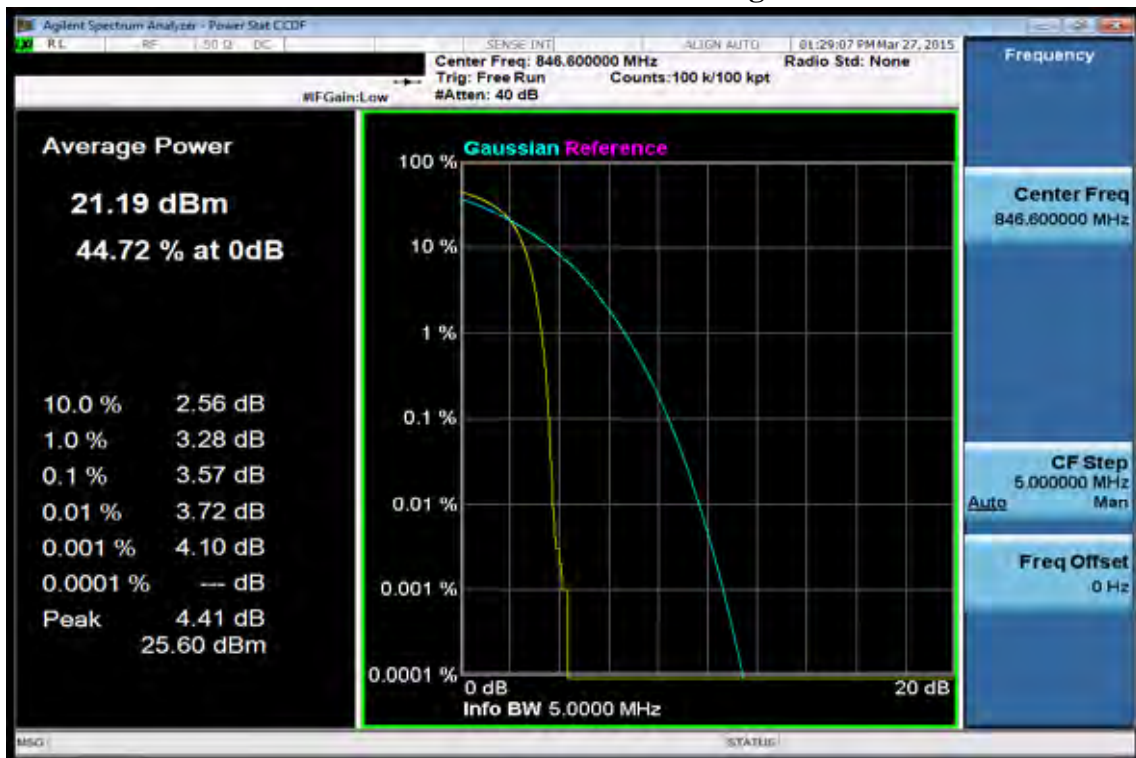
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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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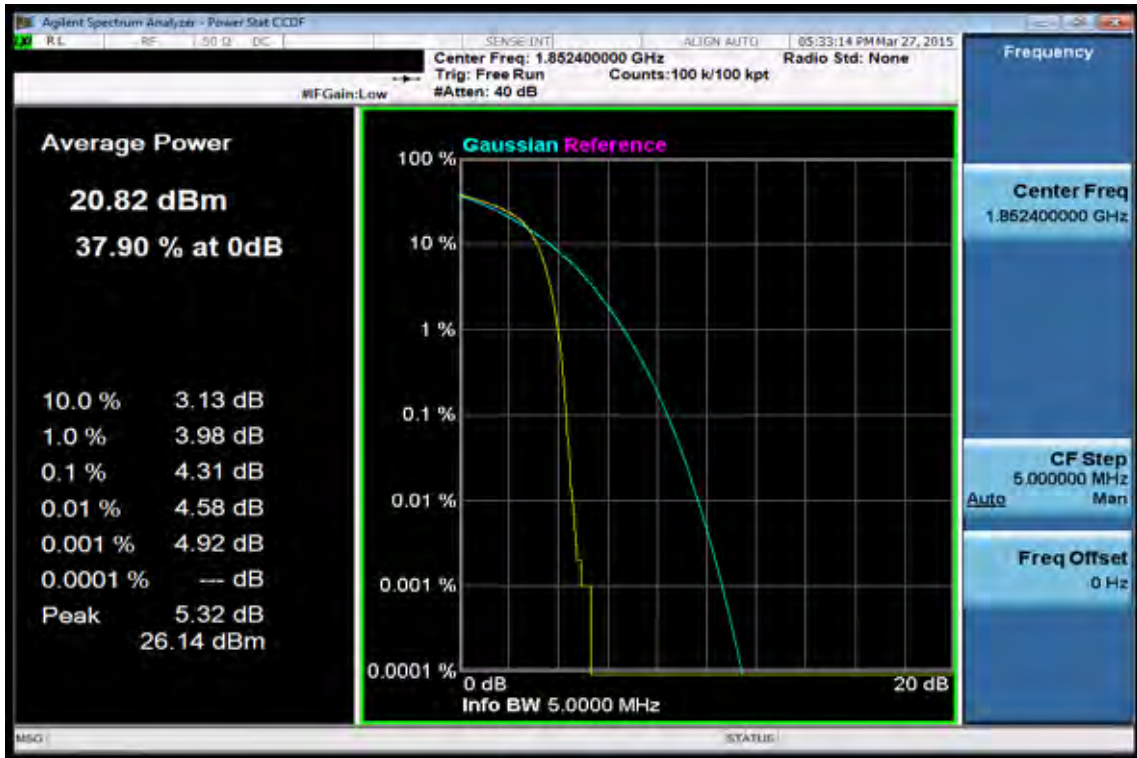
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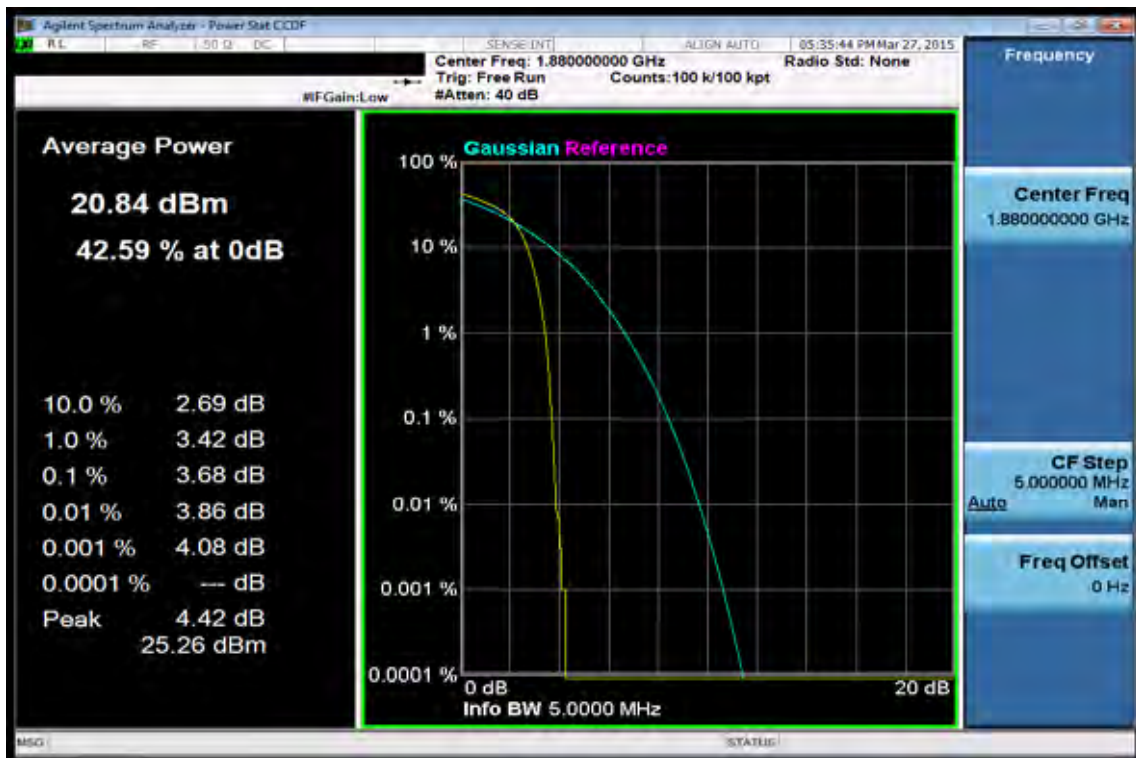
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HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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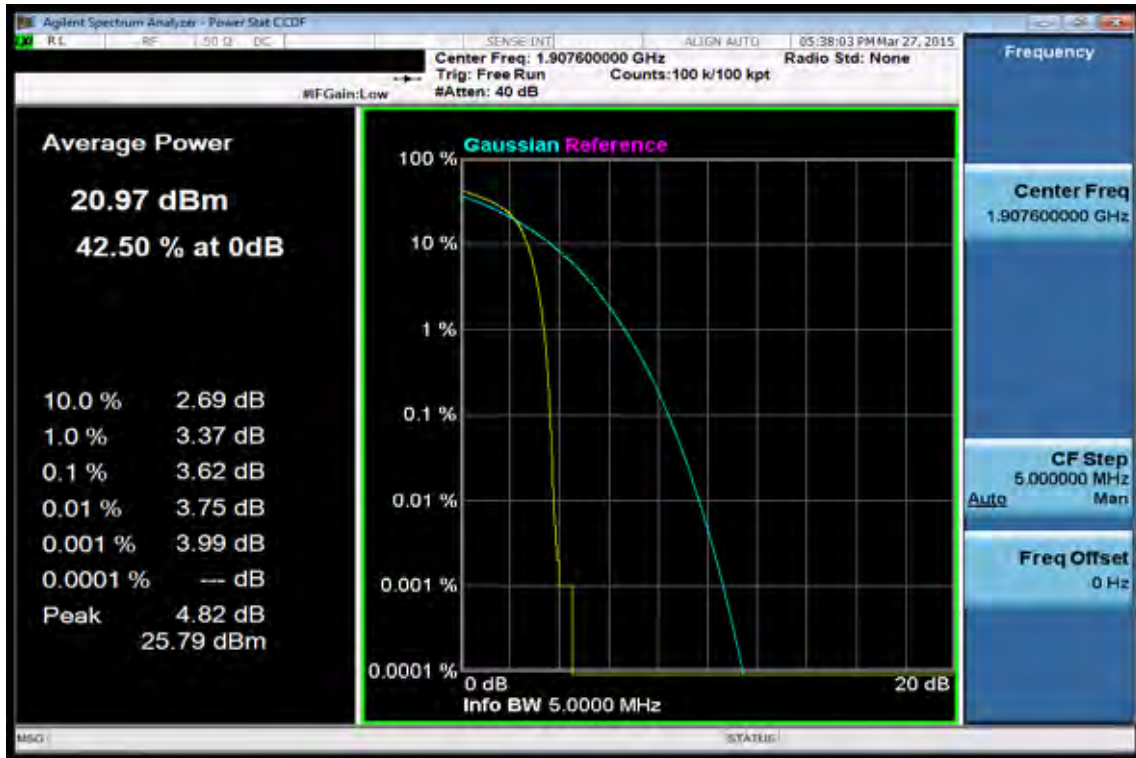
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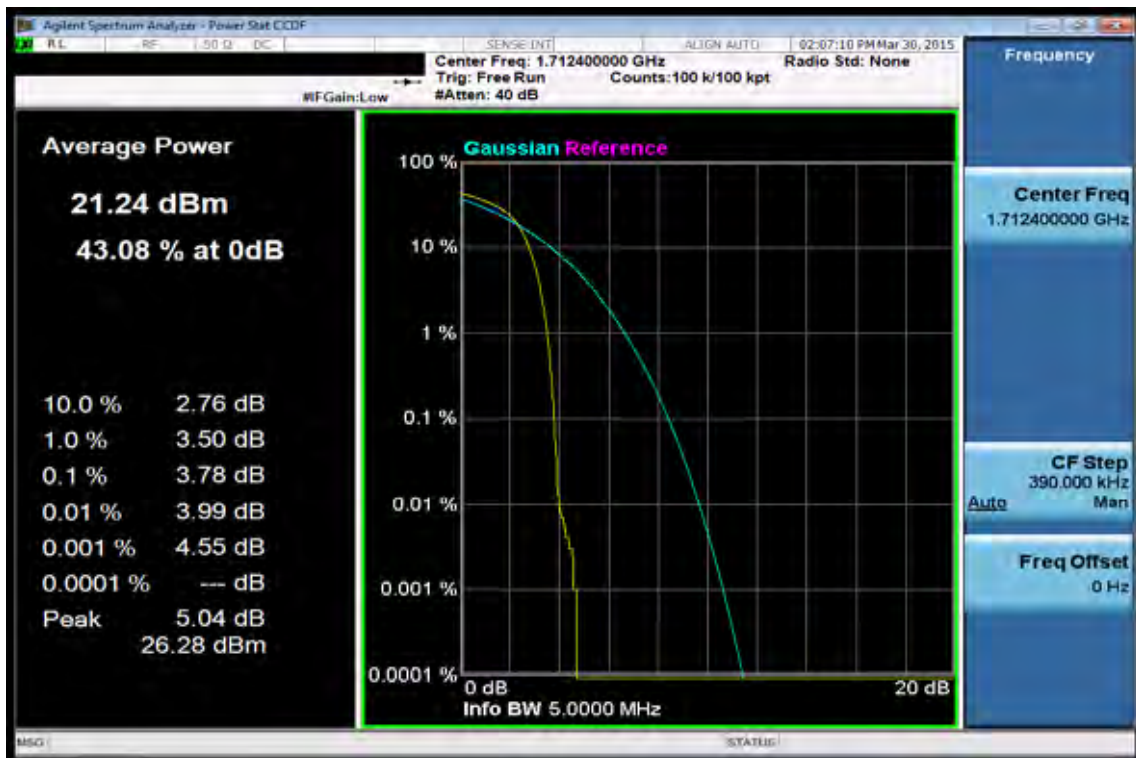
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### HSUPA Band II Channel High



### HSUPA Band IV Channel Low



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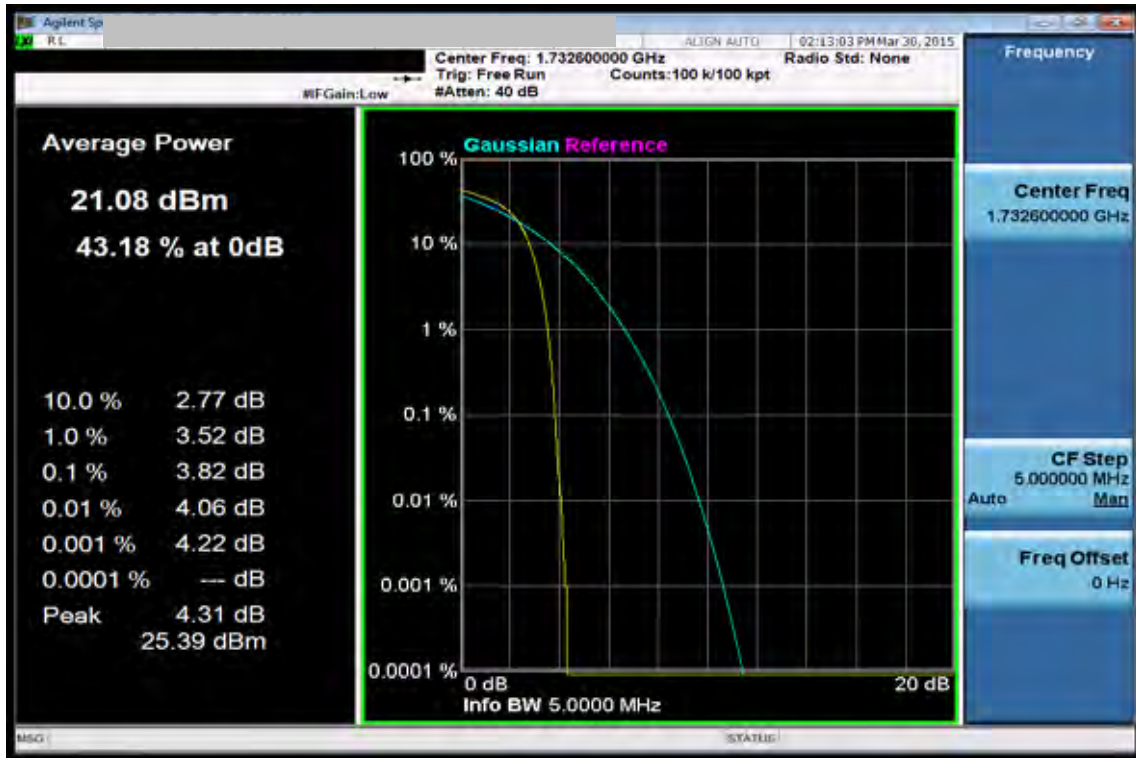
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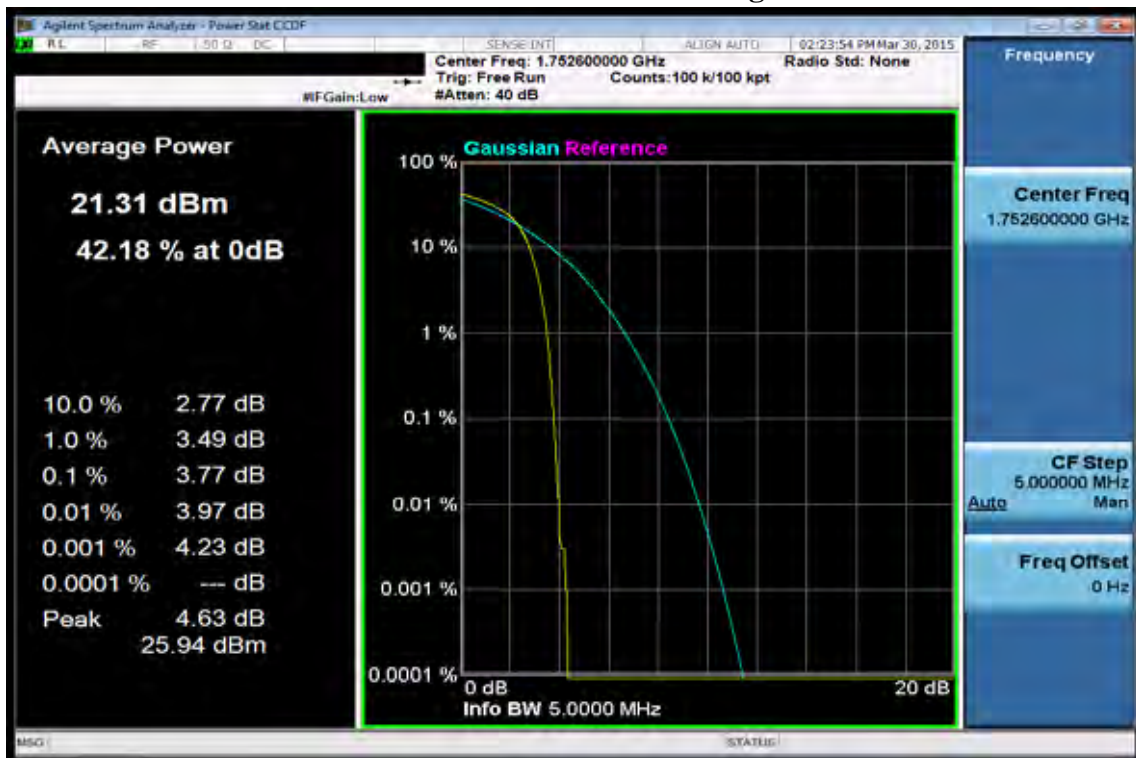
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HSUPA Band IV Channel Mid



HSUPA Band V Channel High



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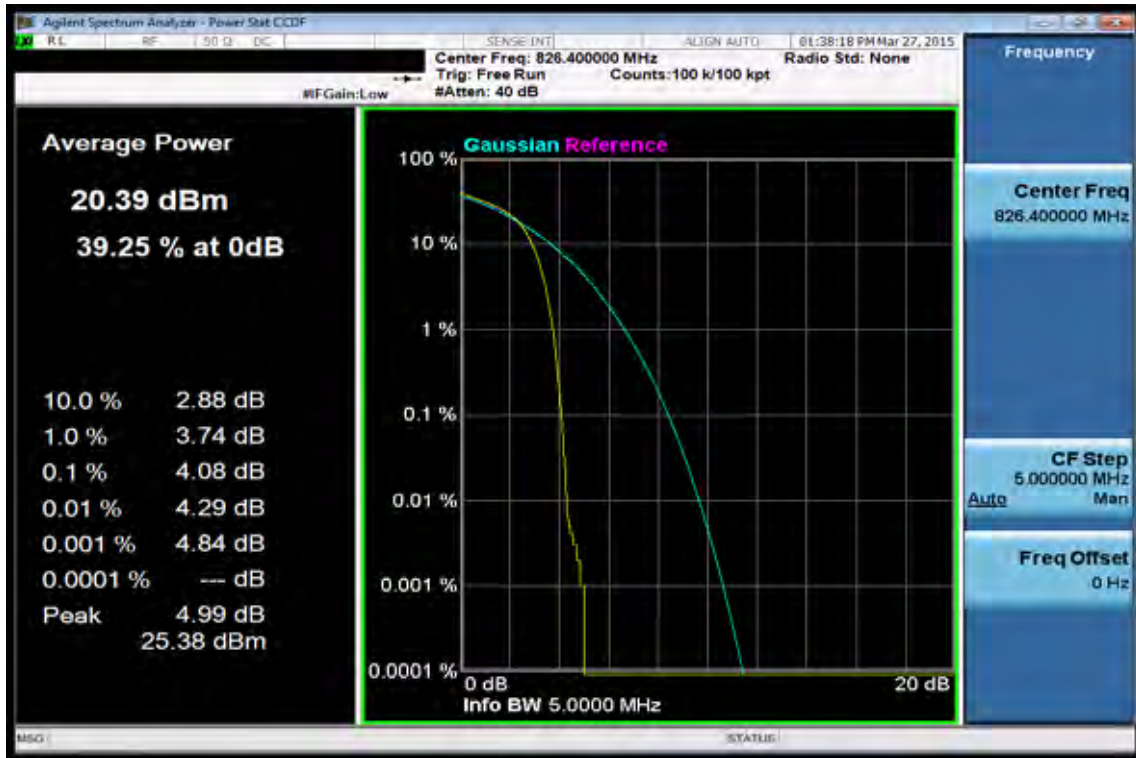
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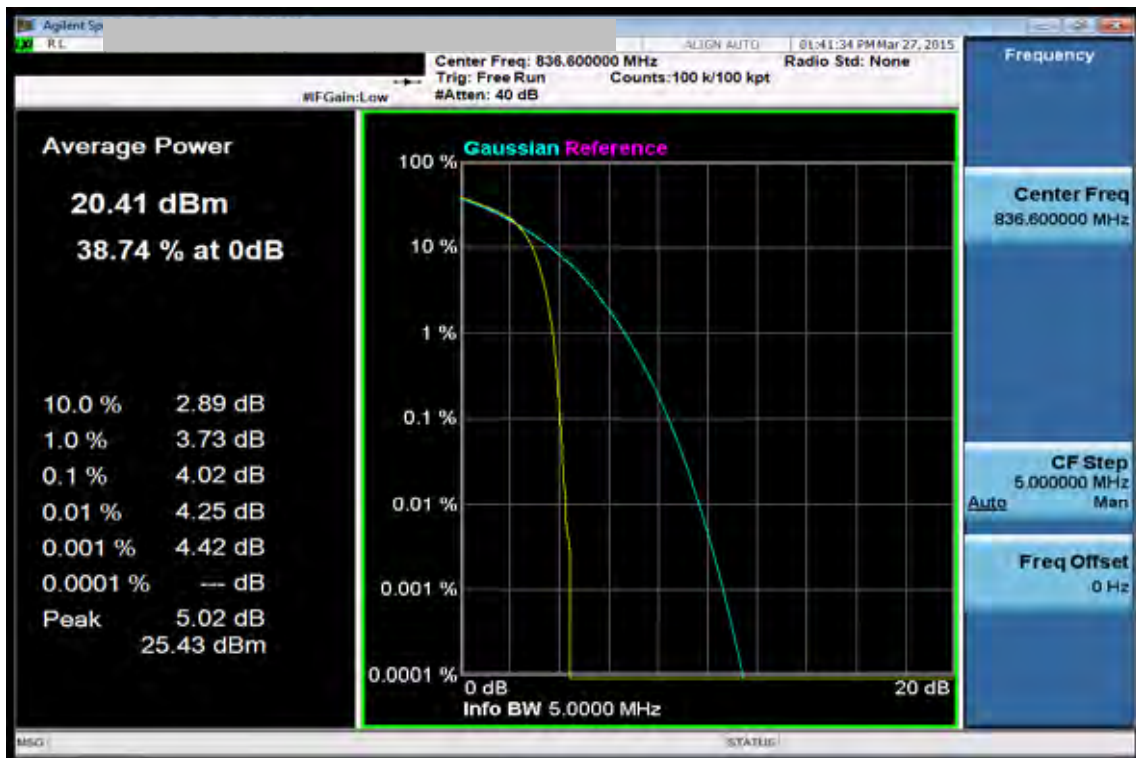
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### HSUPA Band V Channel Low



### HSUPA Band V Channel Mid



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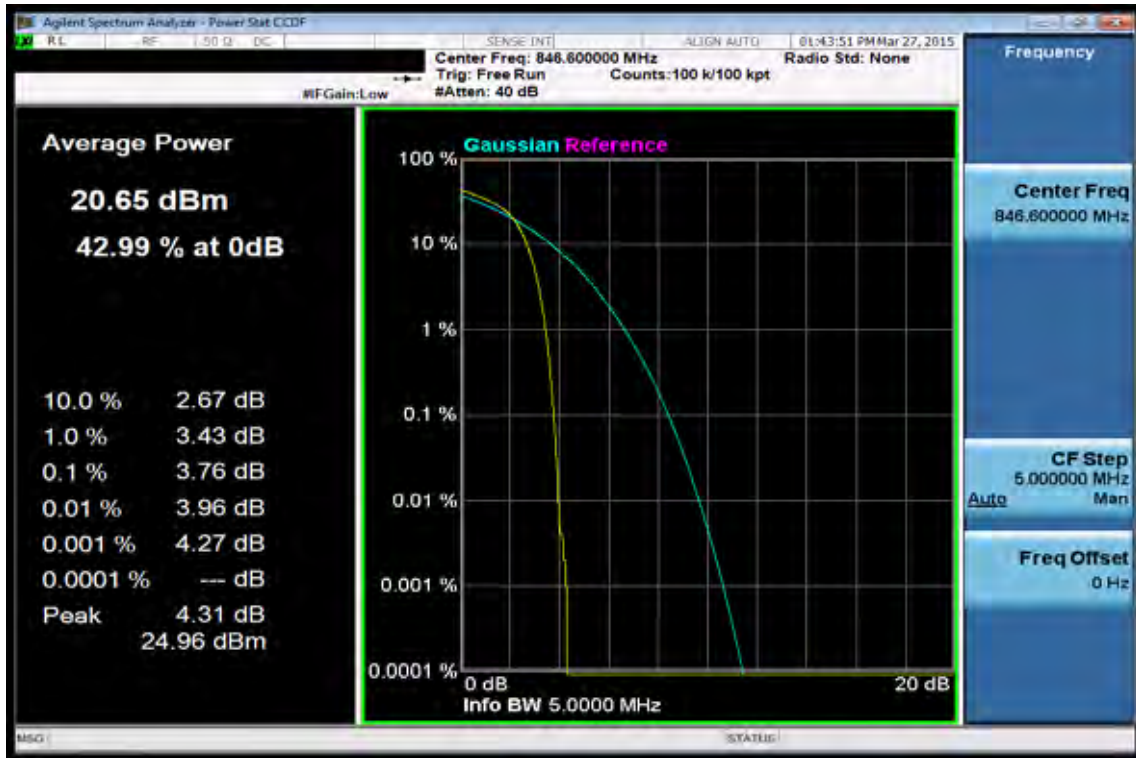
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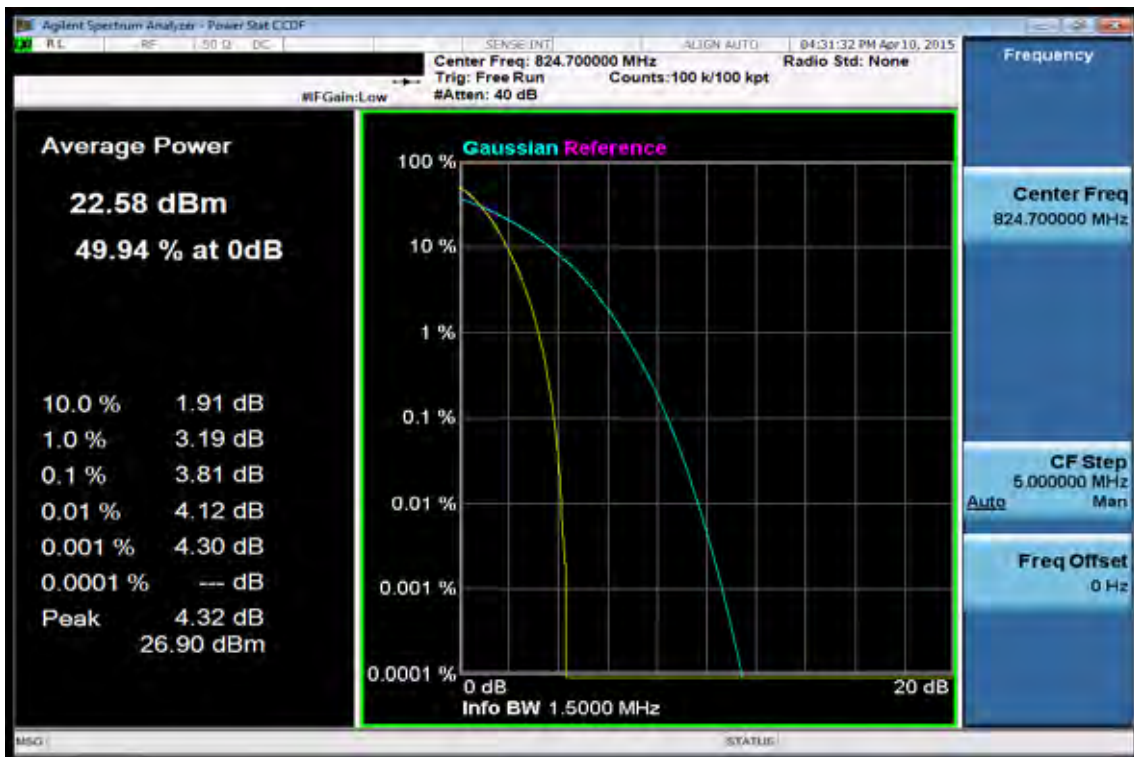
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### HSUPA Band V Channel High



### CDMA BC0 Channel Low



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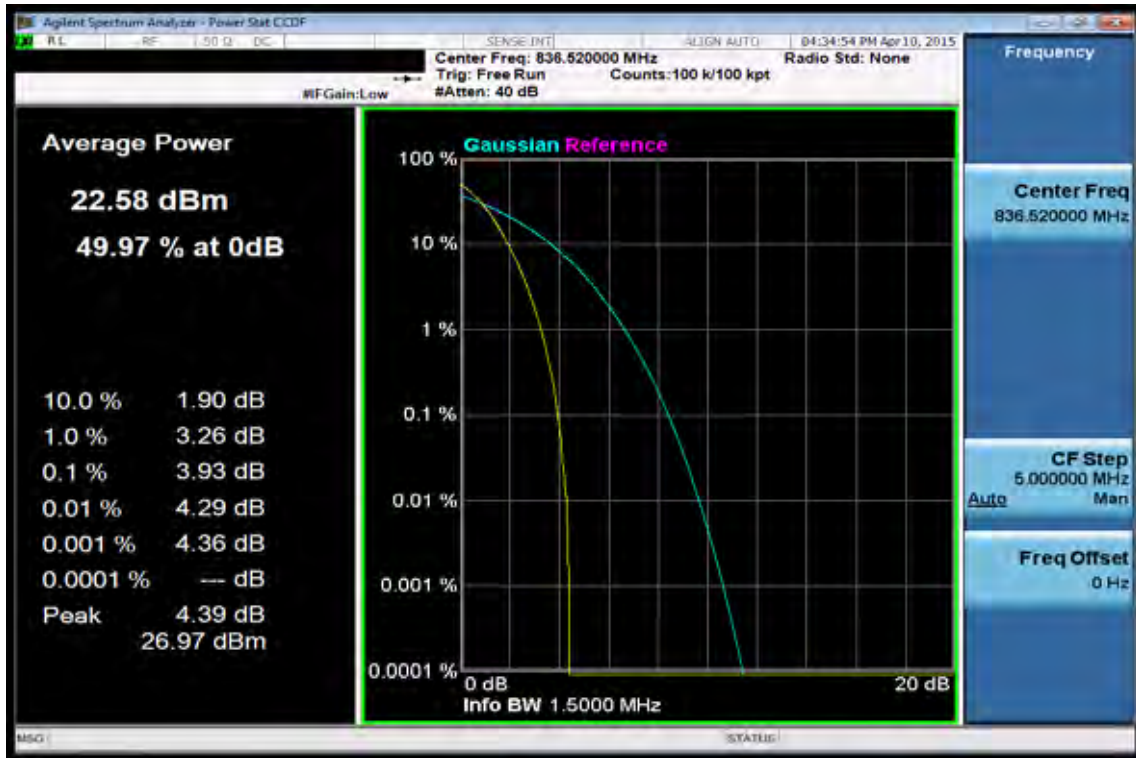
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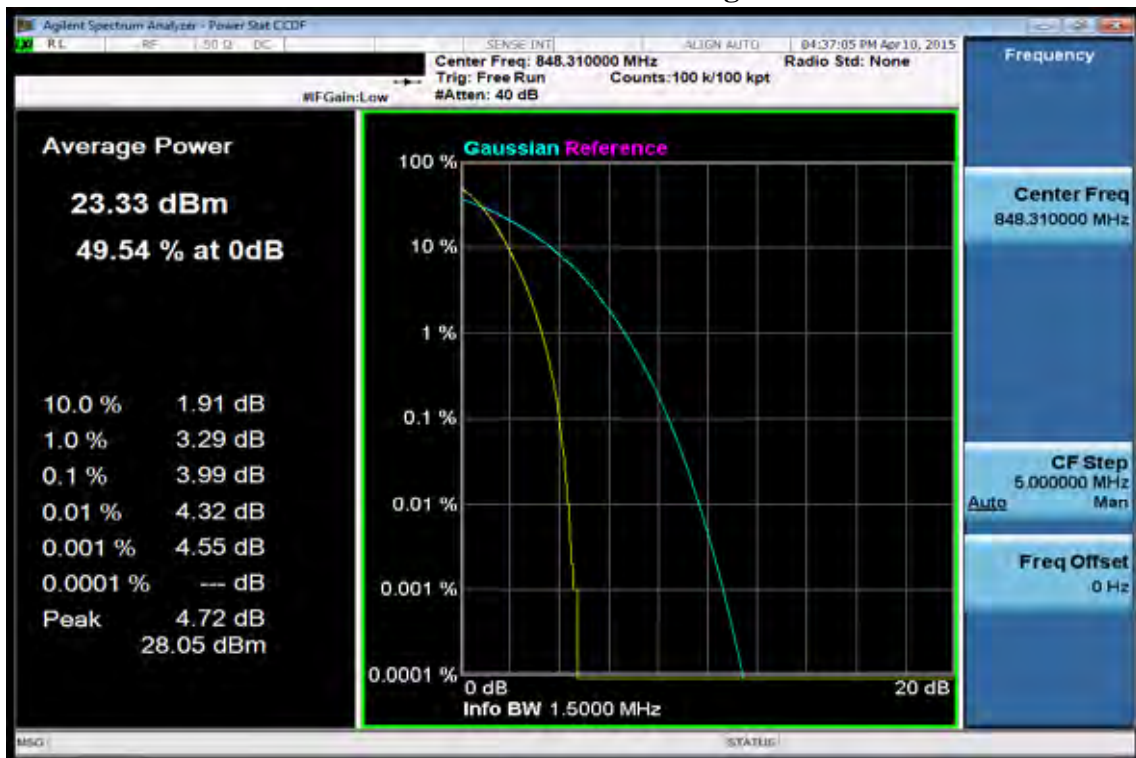
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CDMA BC0 Channel Mid



CDMA BC0 Channel High



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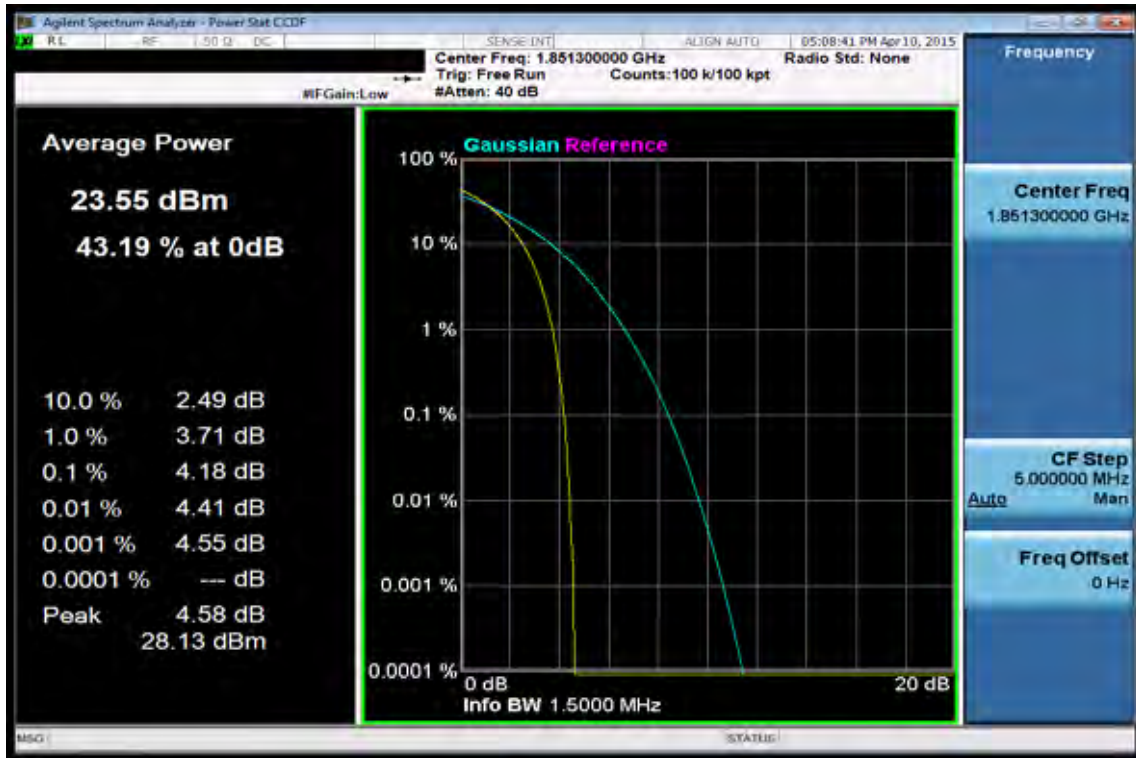
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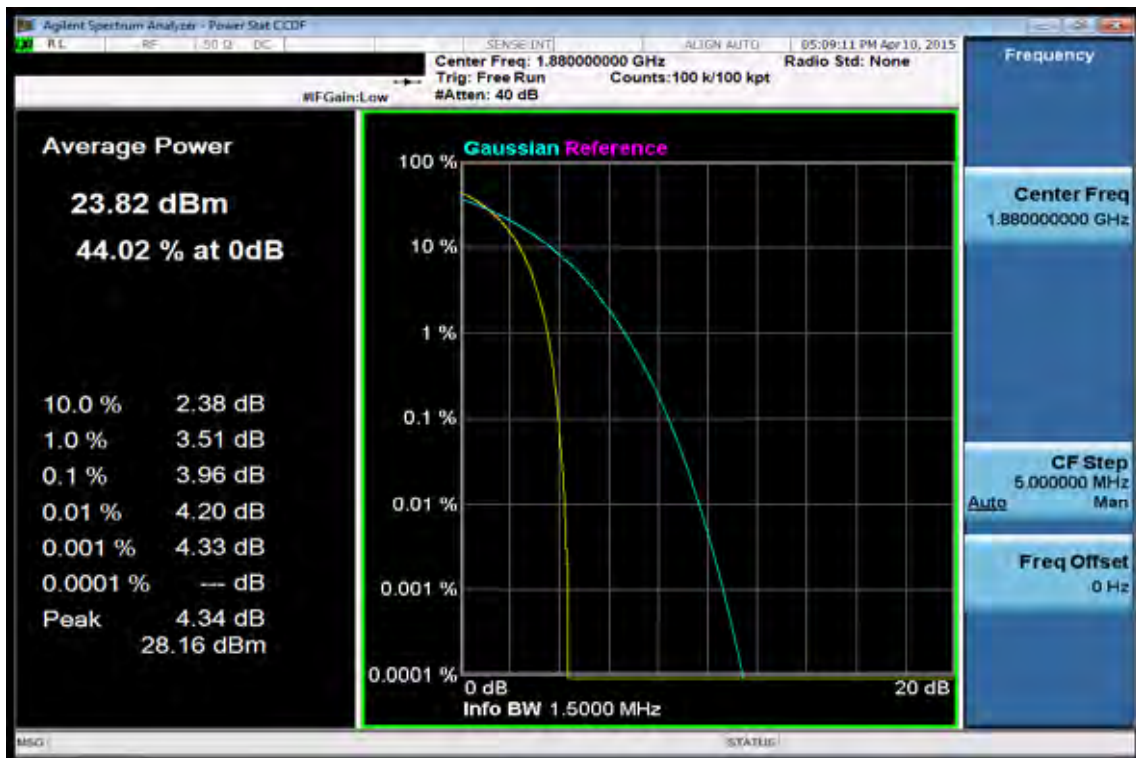
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CDMA BC1 Channel Low



CDMA BC1 Channel Mid



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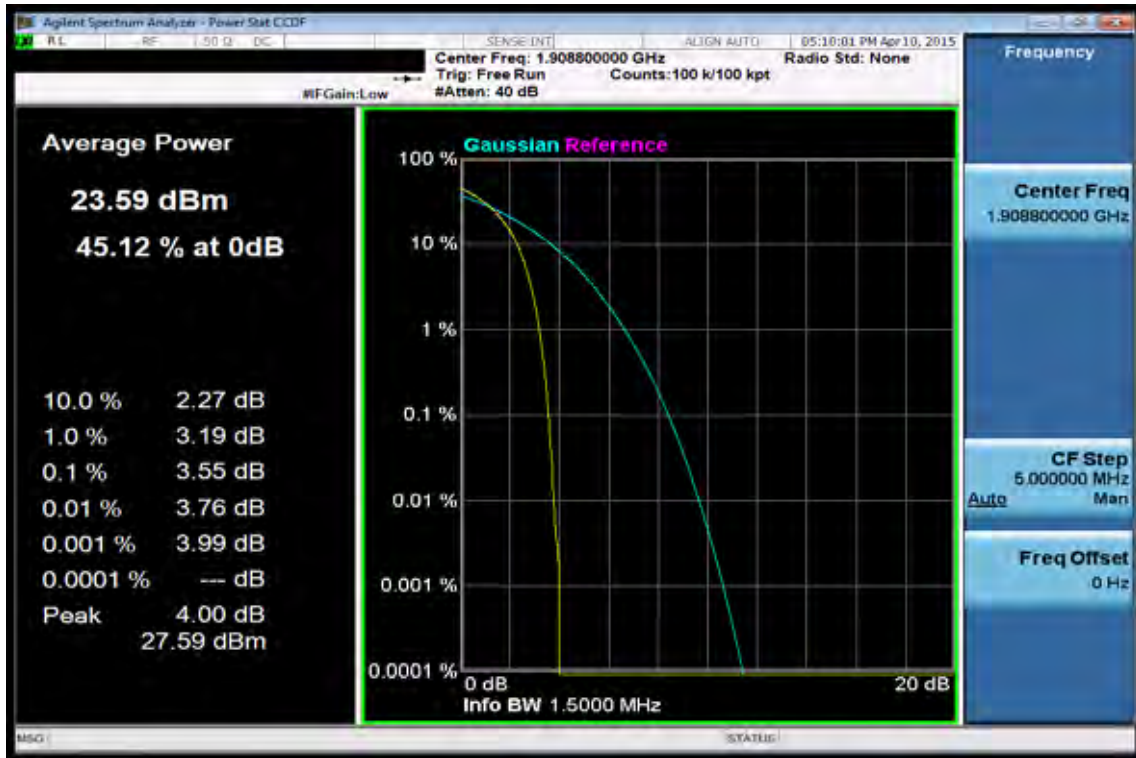
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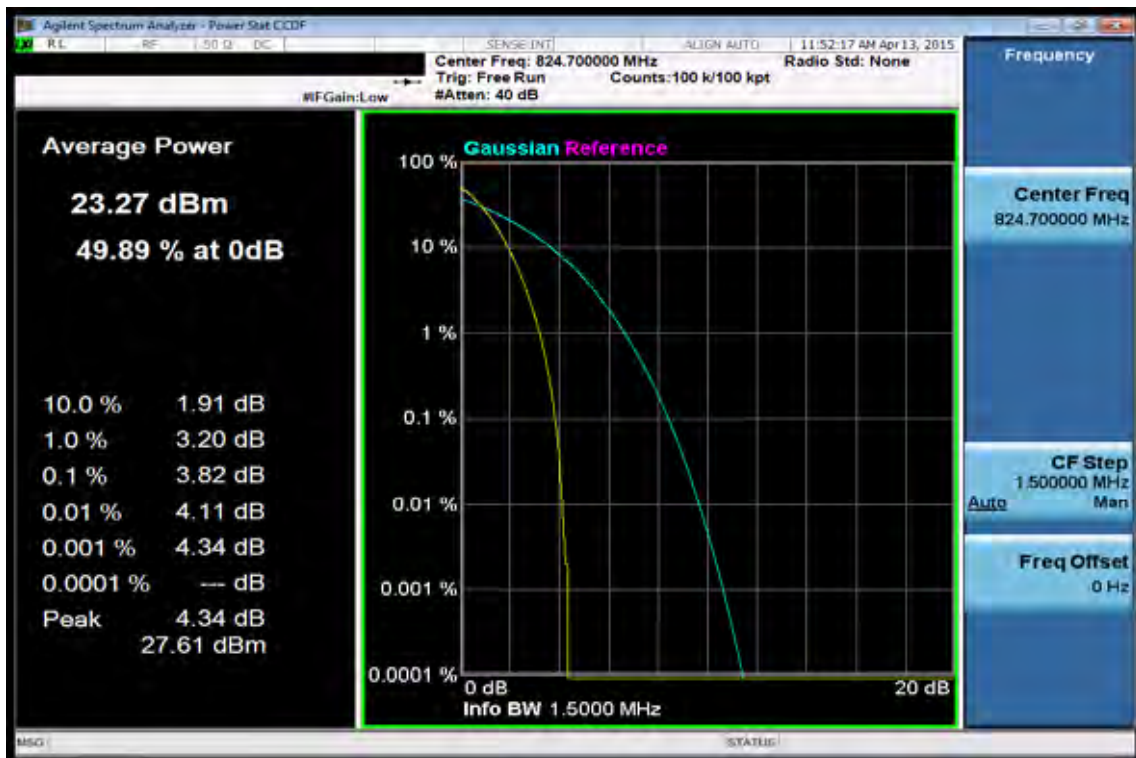
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CDMA BC1 Channel High



EVDO BC0 Channel Low



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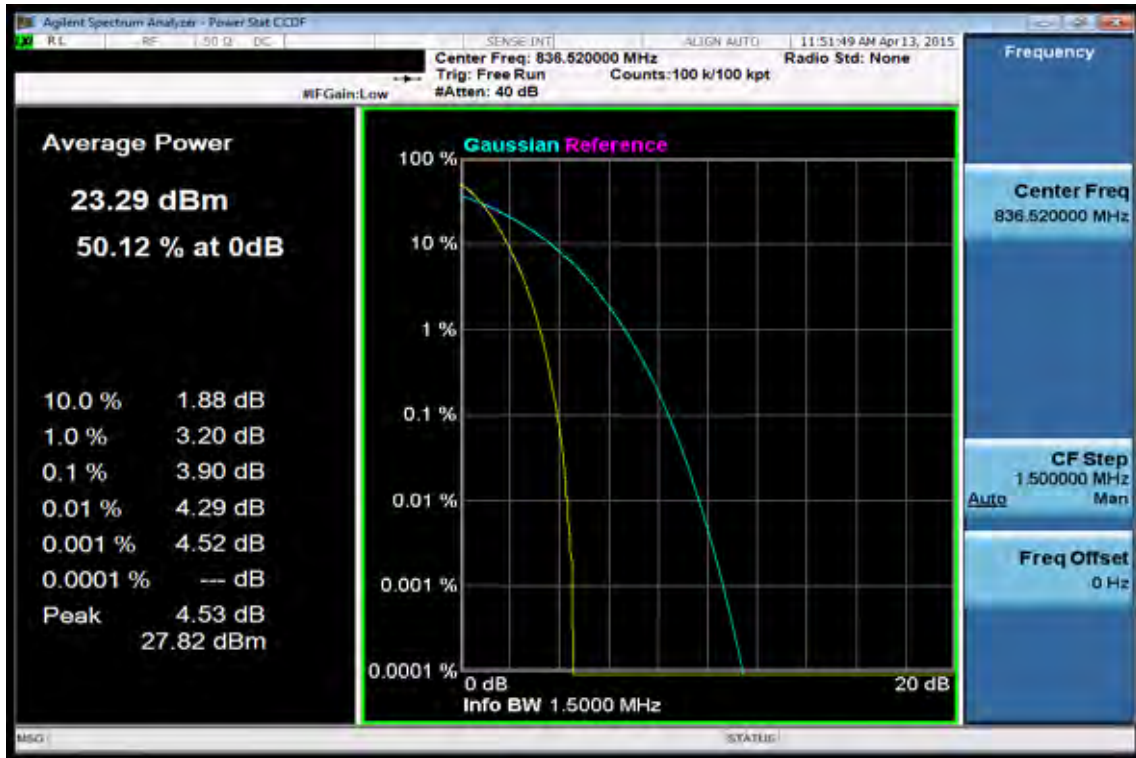
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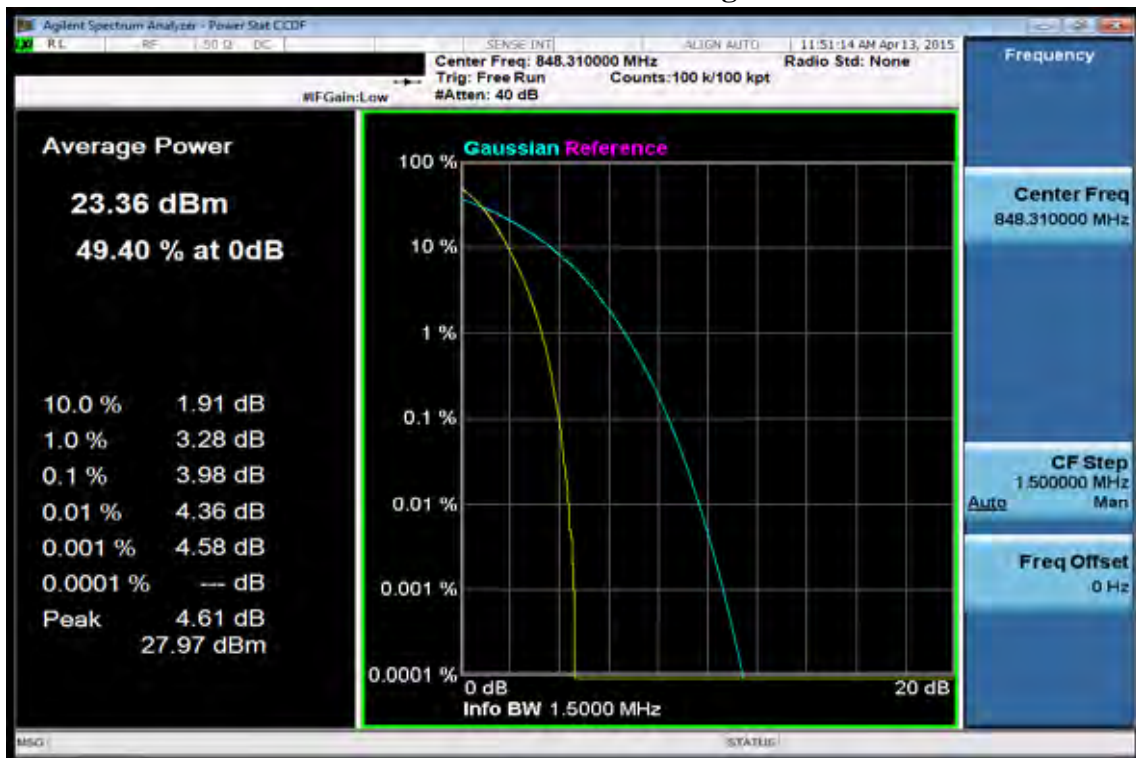
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EVDO BC0 Channel Mid



EVDO BC0 Channel High



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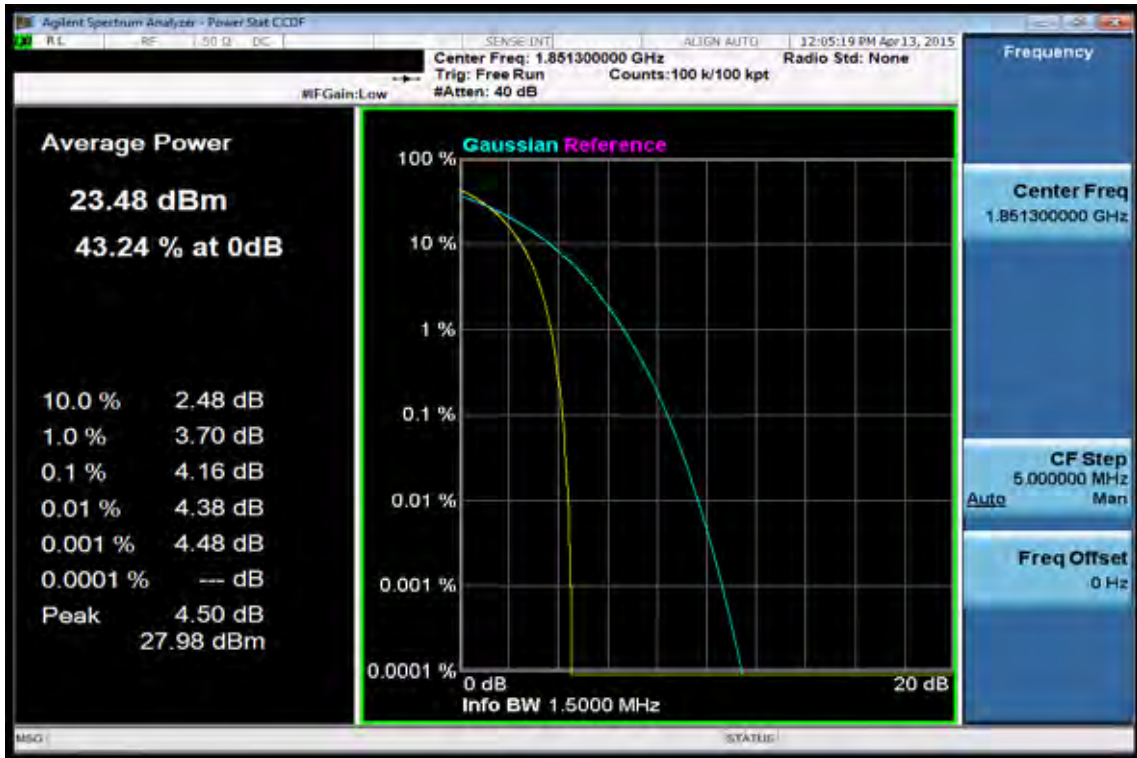
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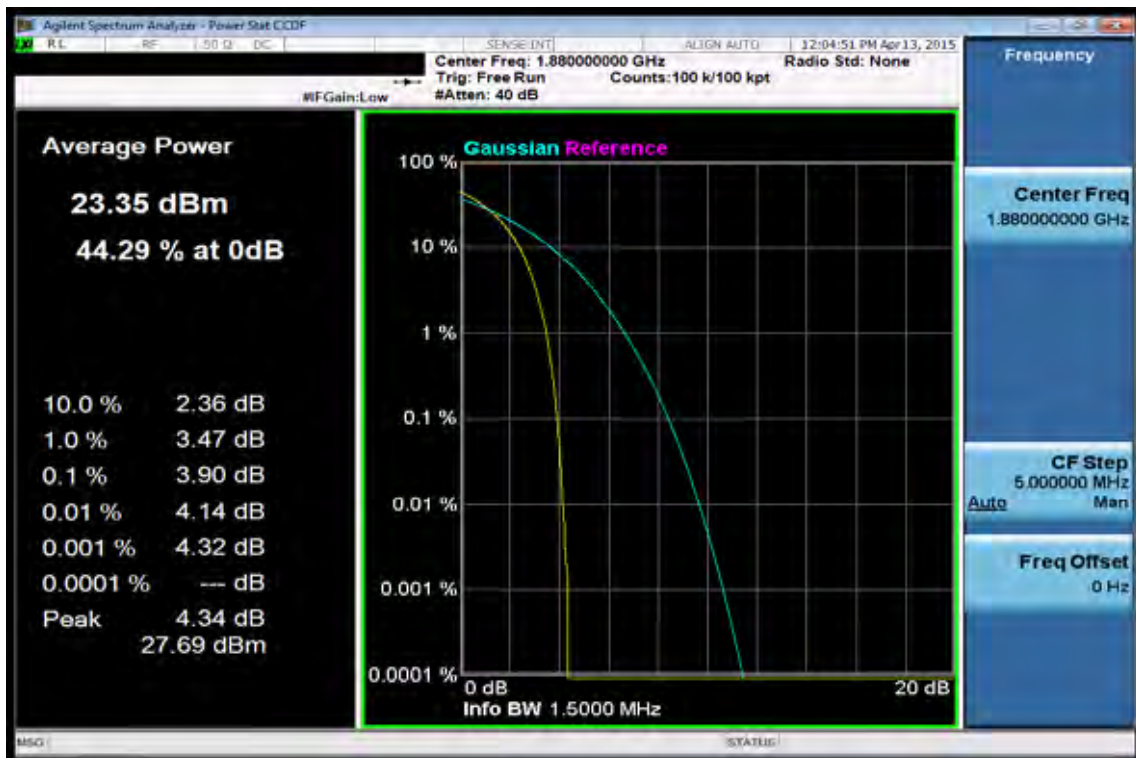
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EVDO PCS BC1 Channel Low



EVDO BC1 Channel Mid



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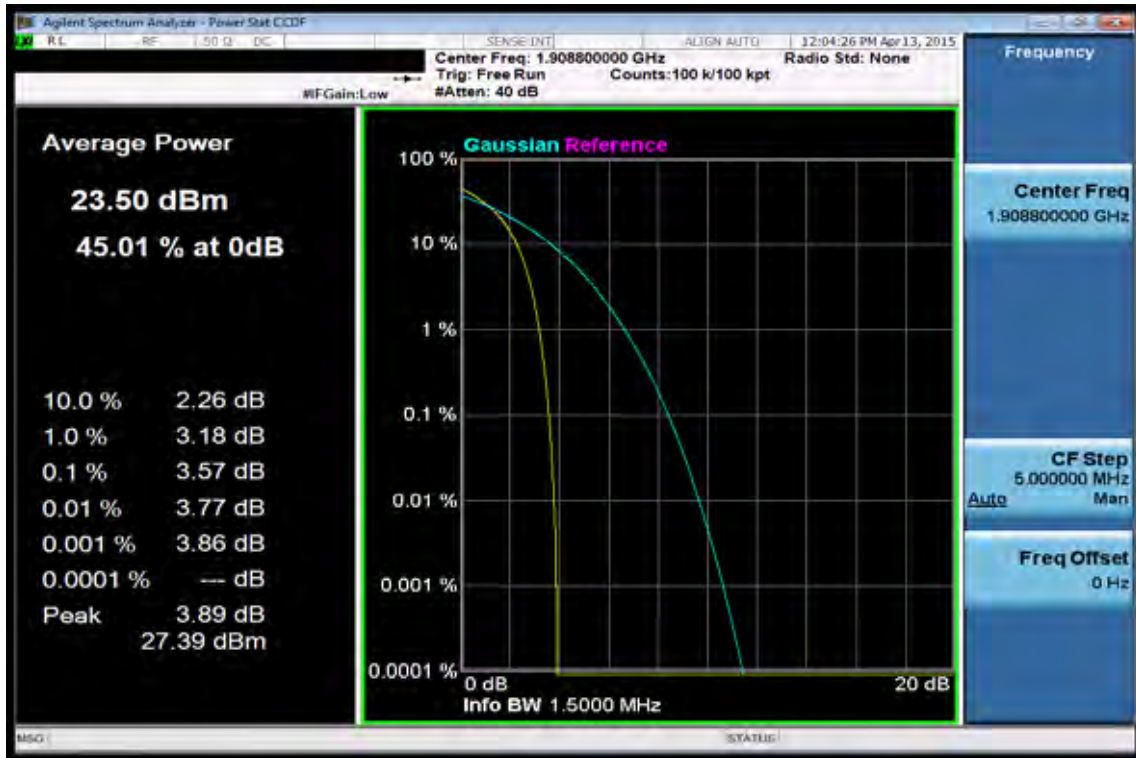
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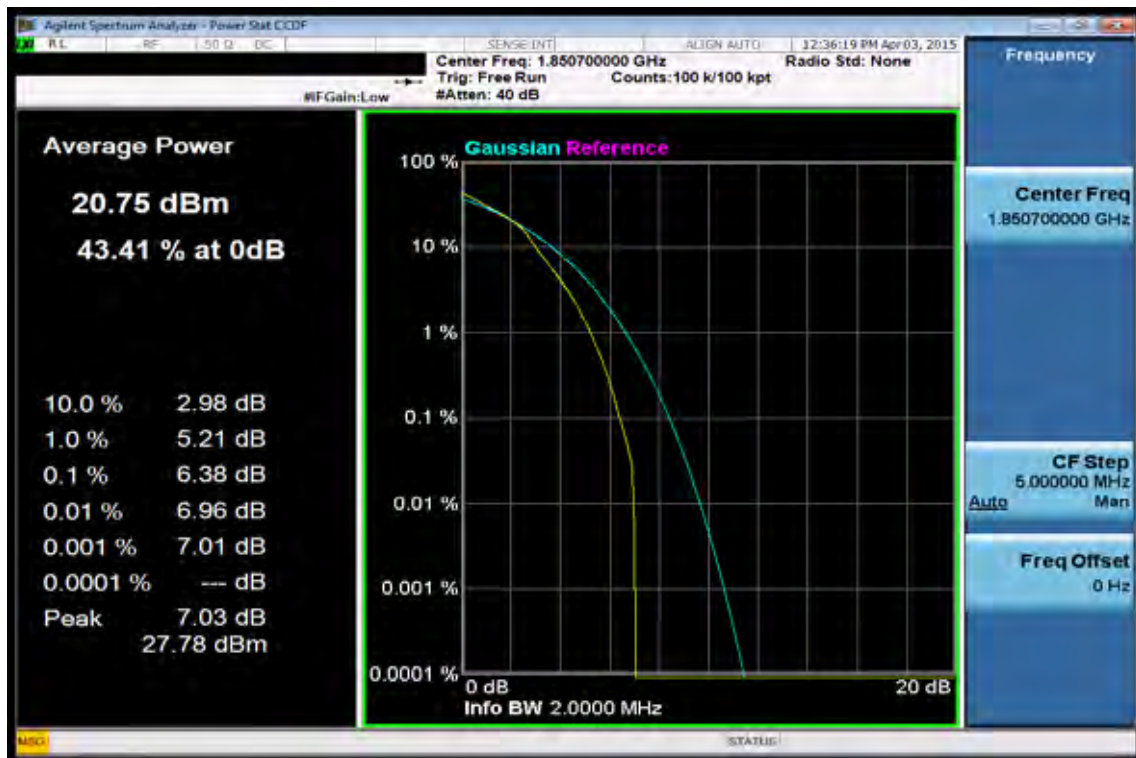
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EVDO BC1 Channel High



1.4MHz BW LTE-Band 2 16QAM Channel Low



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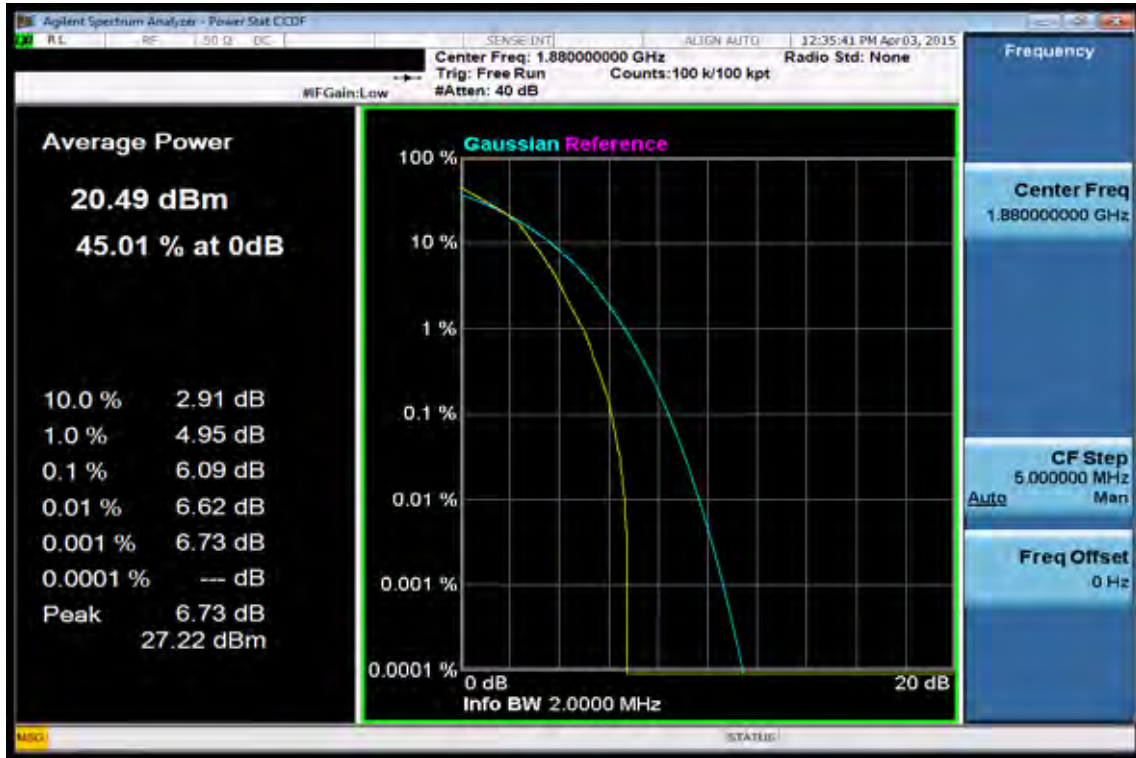
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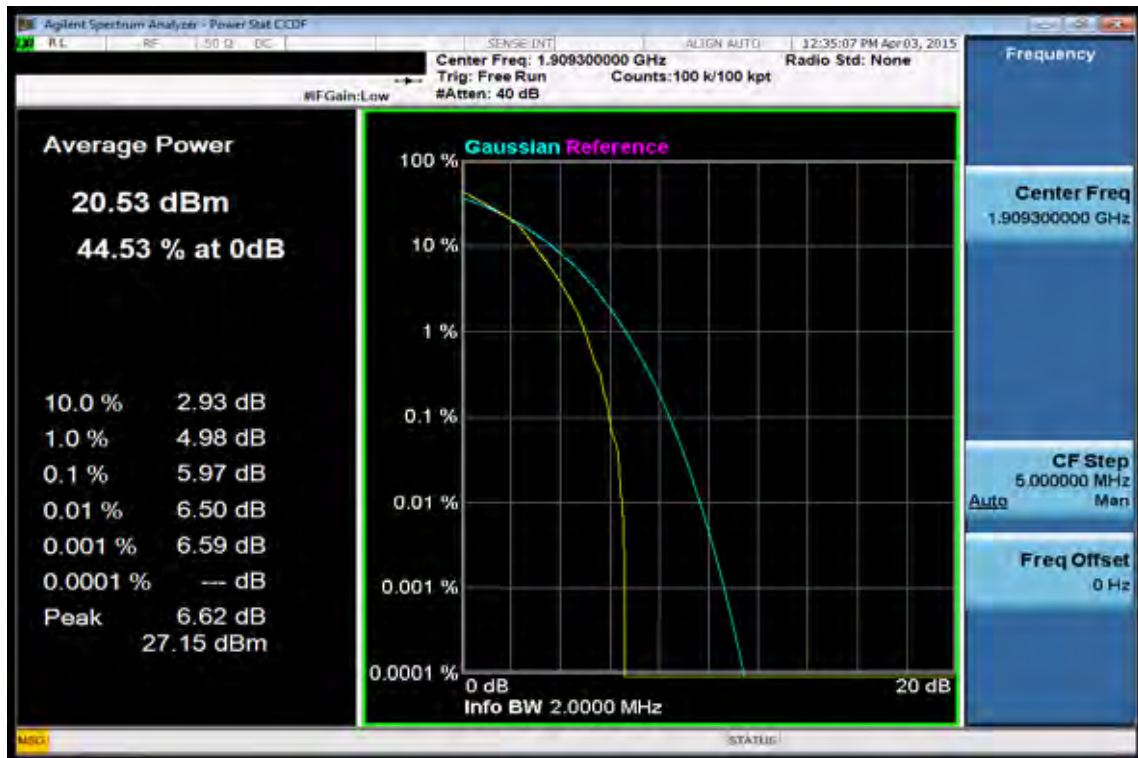
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1.4MHz BW LTE-Band 2 16QAM Channel Mid



1.4MHz BW LTE-Band 2 16QAM Channel High



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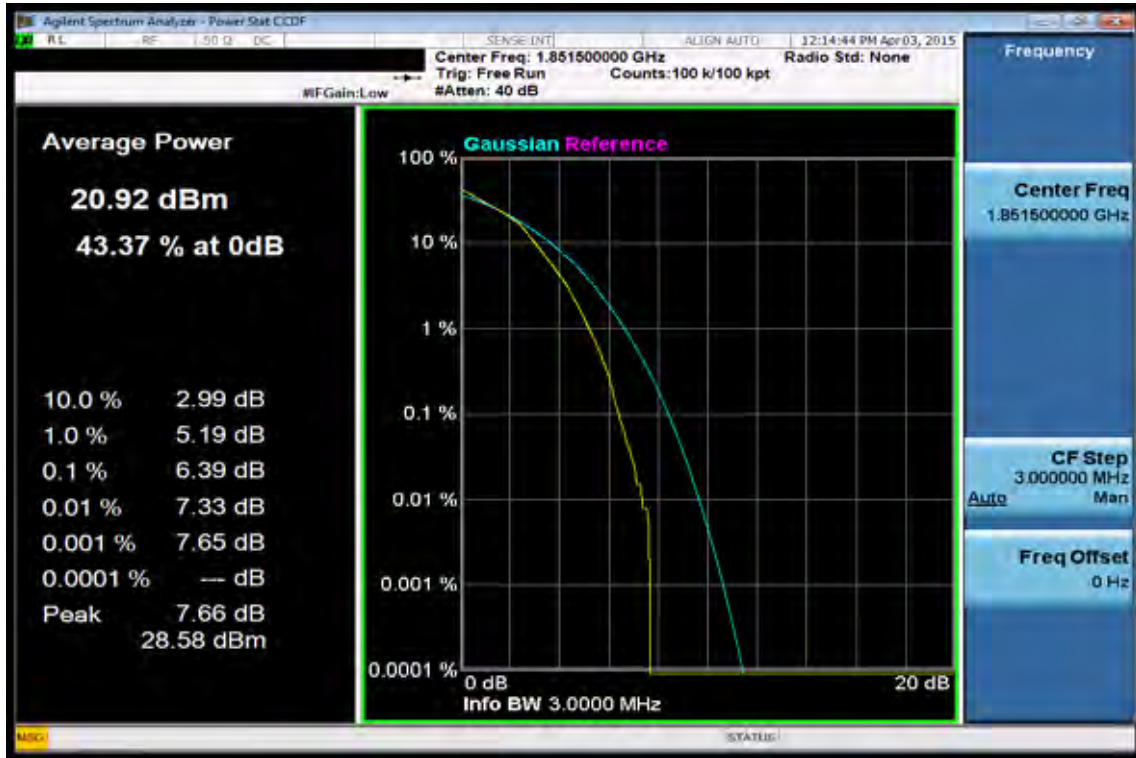
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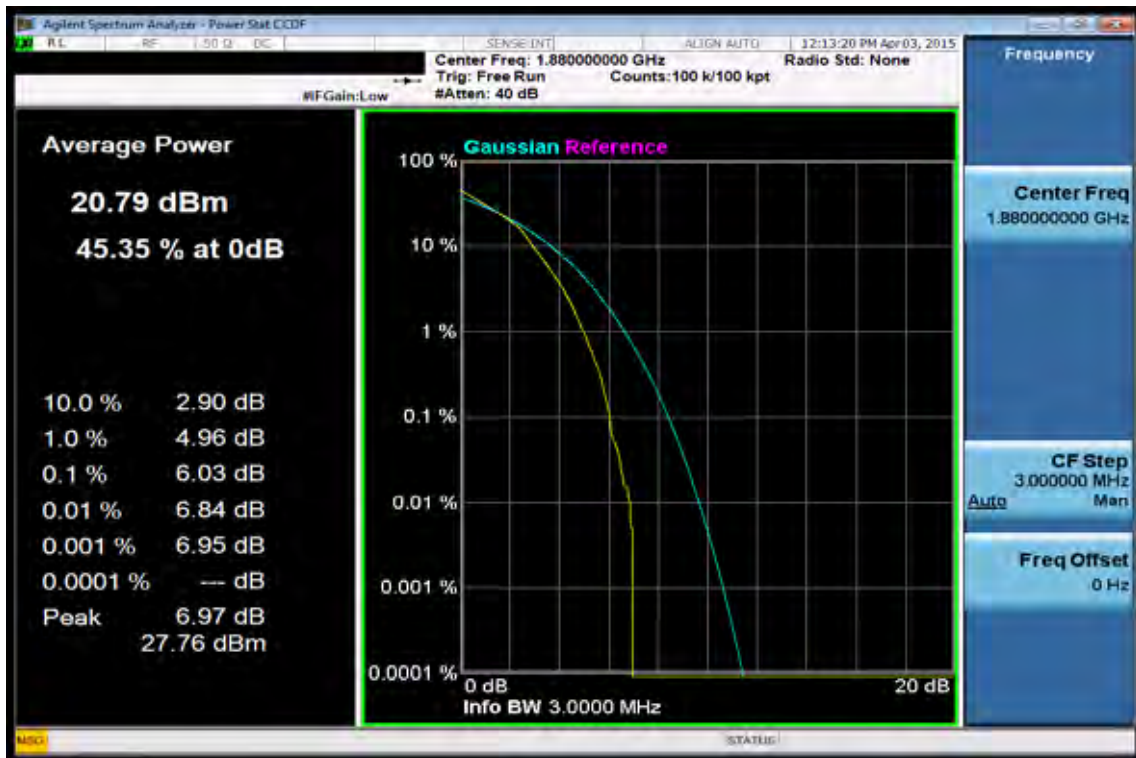
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3MHz BW LTE-Band 2 16QAM Channel Low



3MHz BW LTE-Band 2 16QAM Channel Mid



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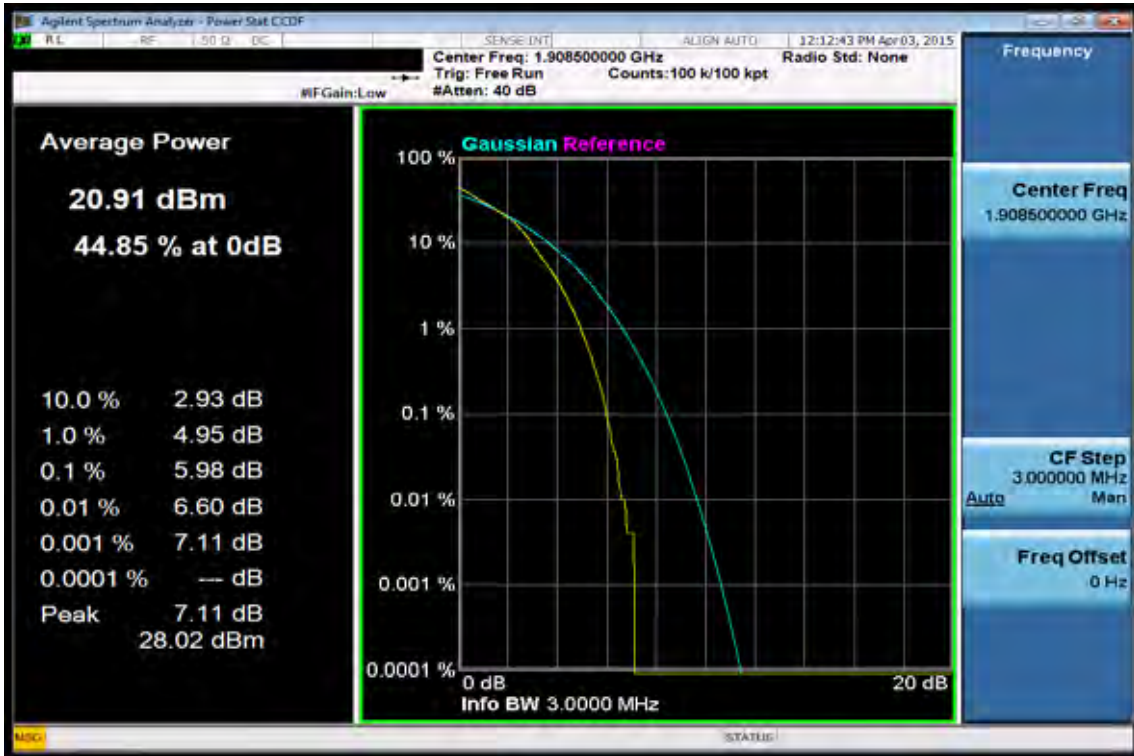
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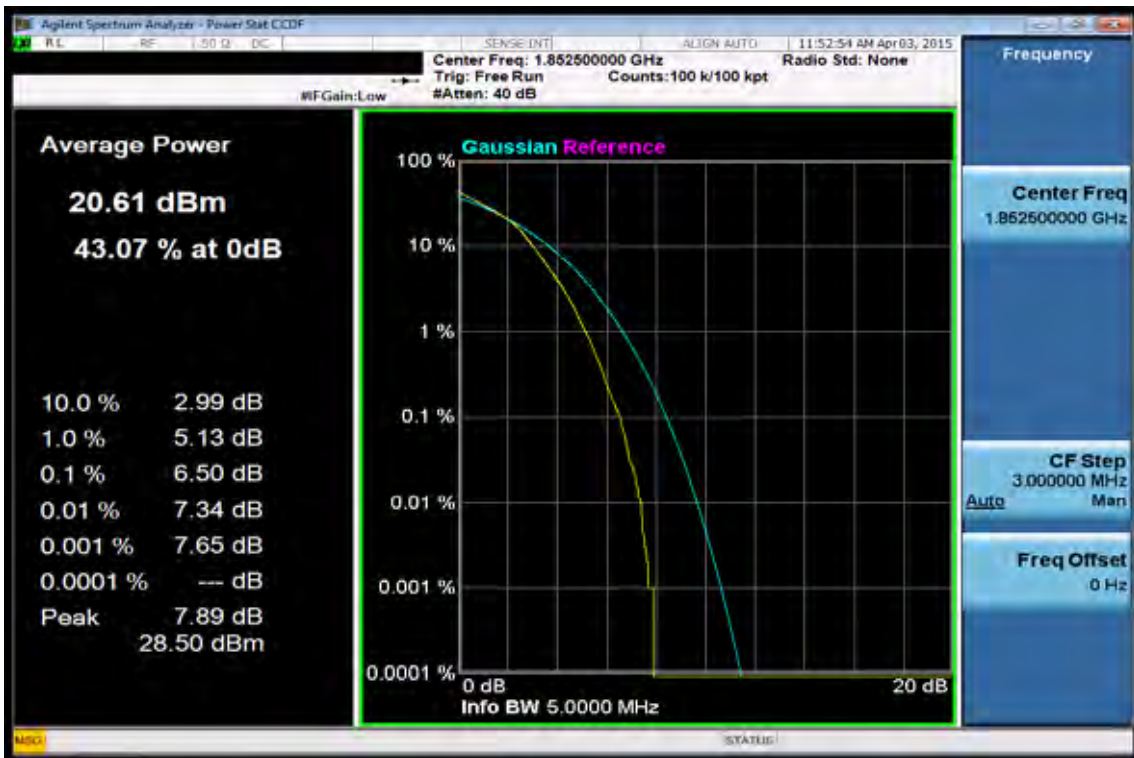
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3MHz BW LTE-Band 2 16QAM Channel High



5MHz BW LTE-Band 2 16QAM Channel Low



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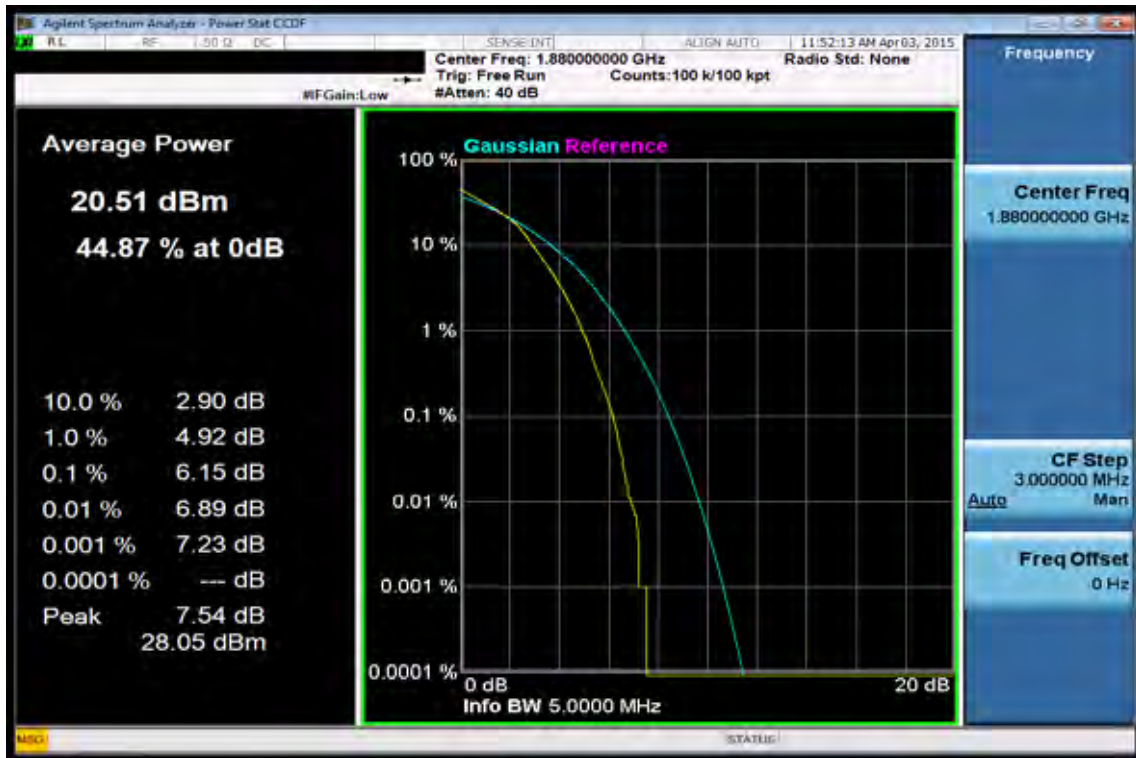
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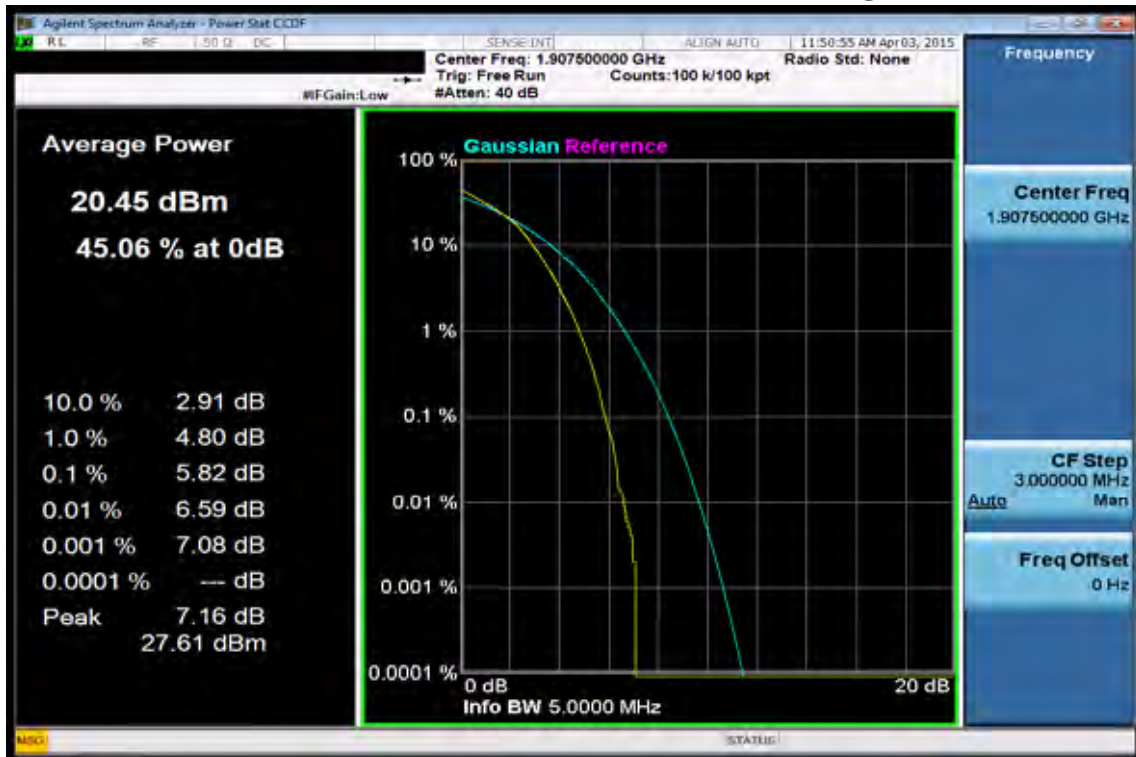
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5MHz BW LTE-Band 2 16QAM Channel Mid



5MHz BW LTE-Band 2 16QAM Channel High



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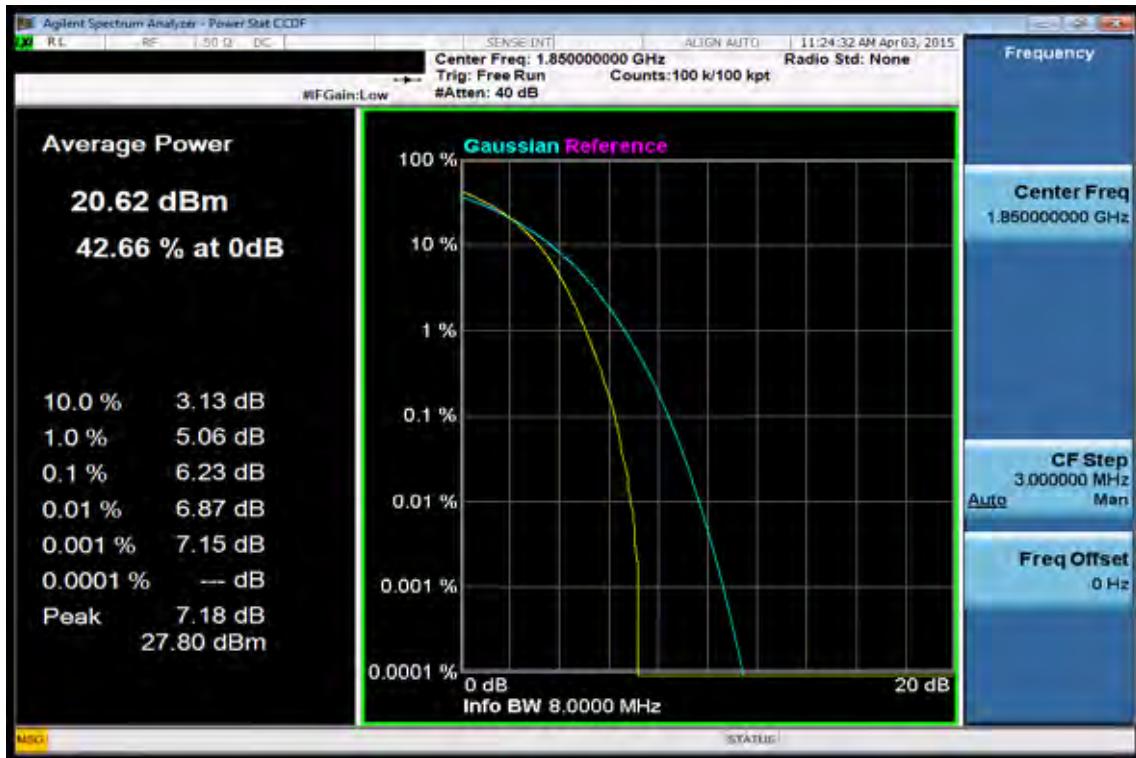
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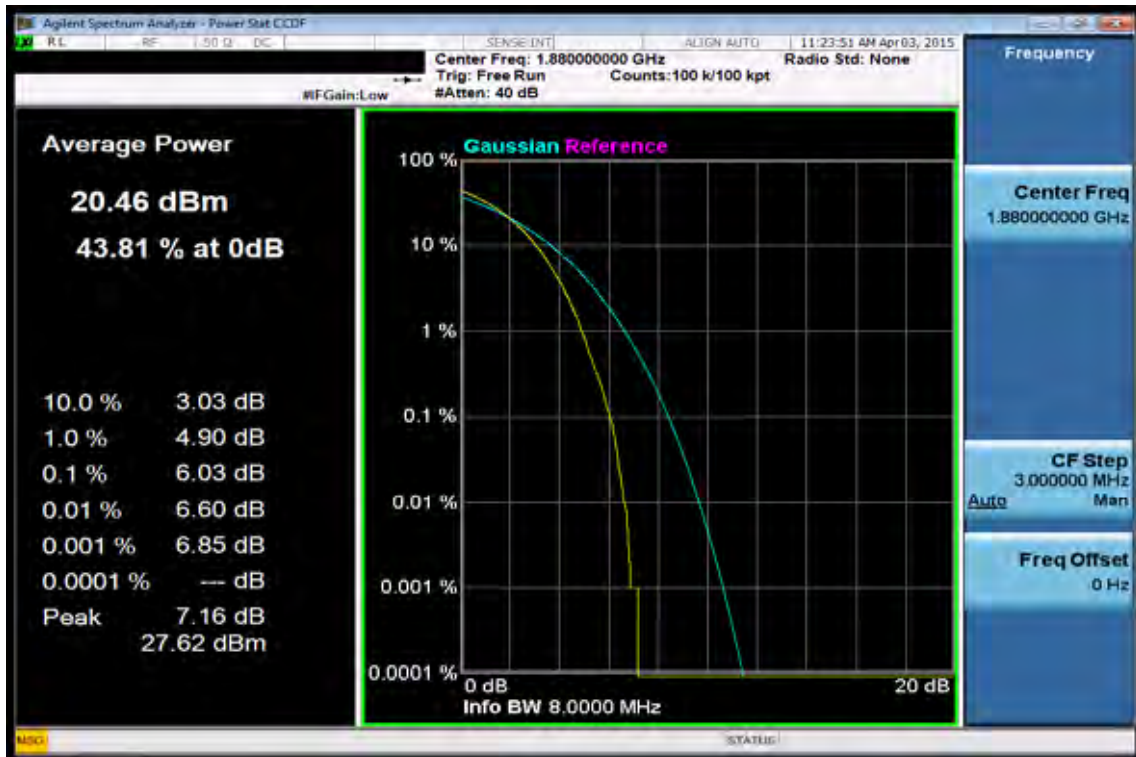
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10MHz BW LTE-Band 2 16QAM Channel Low



10MHz BW LTE-Band 2 16QAM Channel Mid



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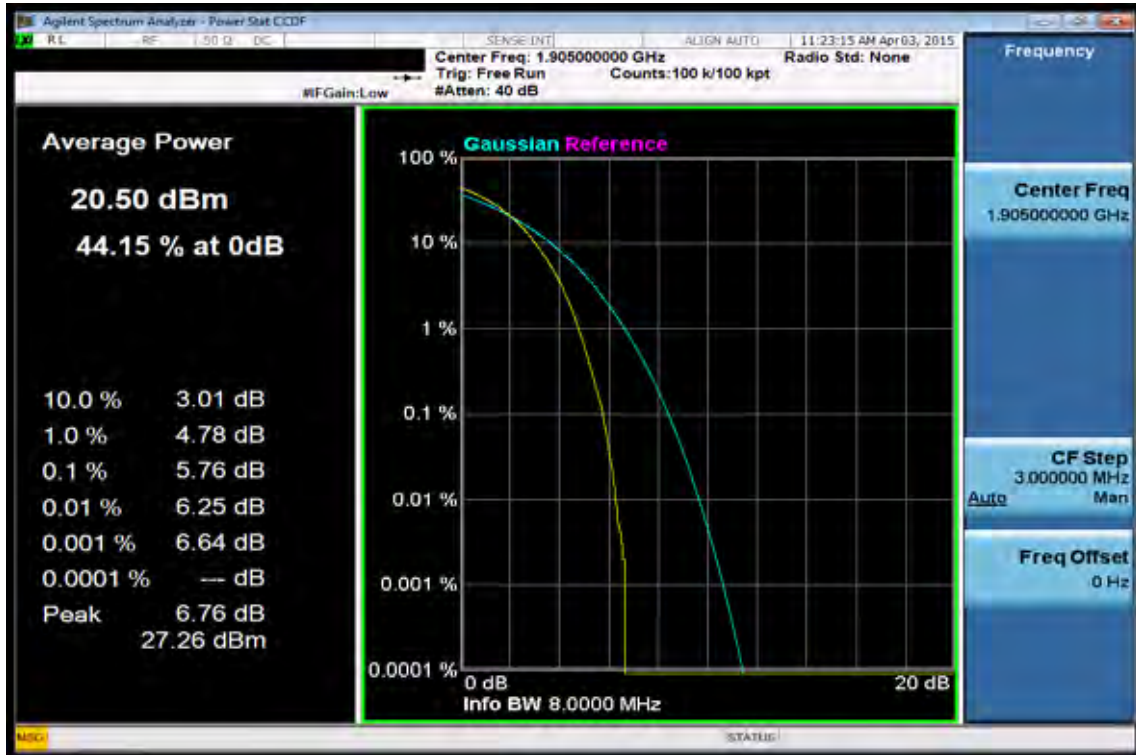
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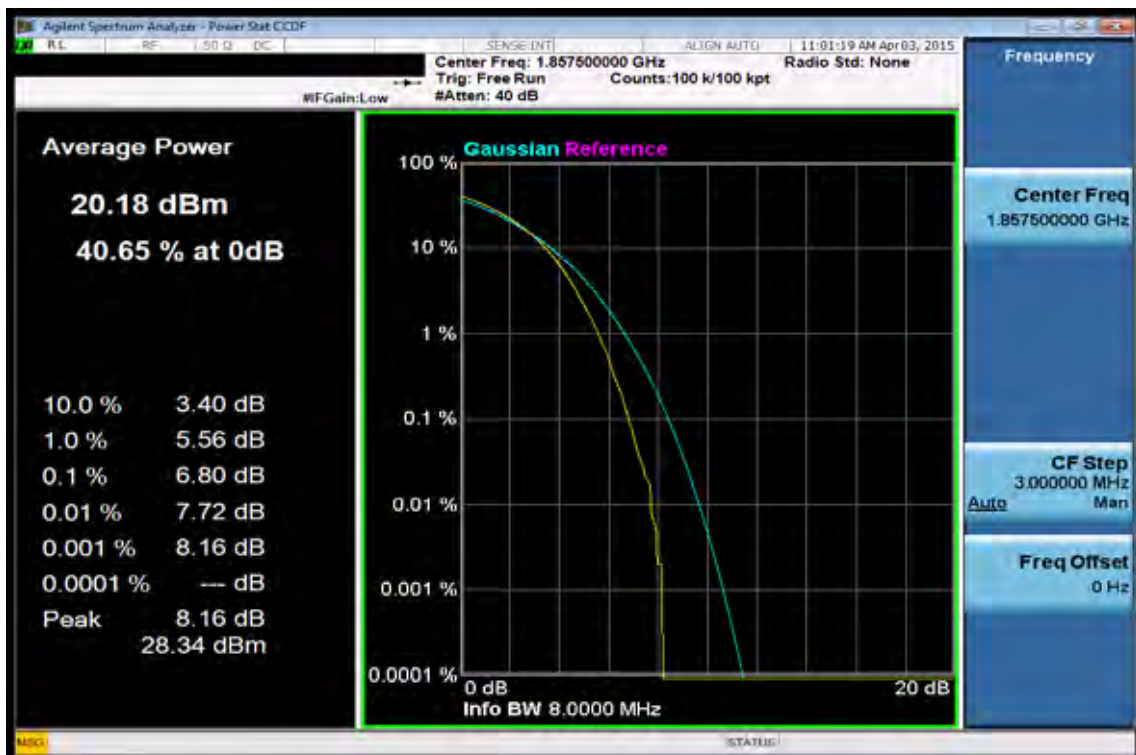
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**10MHz BW LTE-Band 2 16QAM Channel High**



**15MHz BW LTE-Band 2 16QAM Channel Low**



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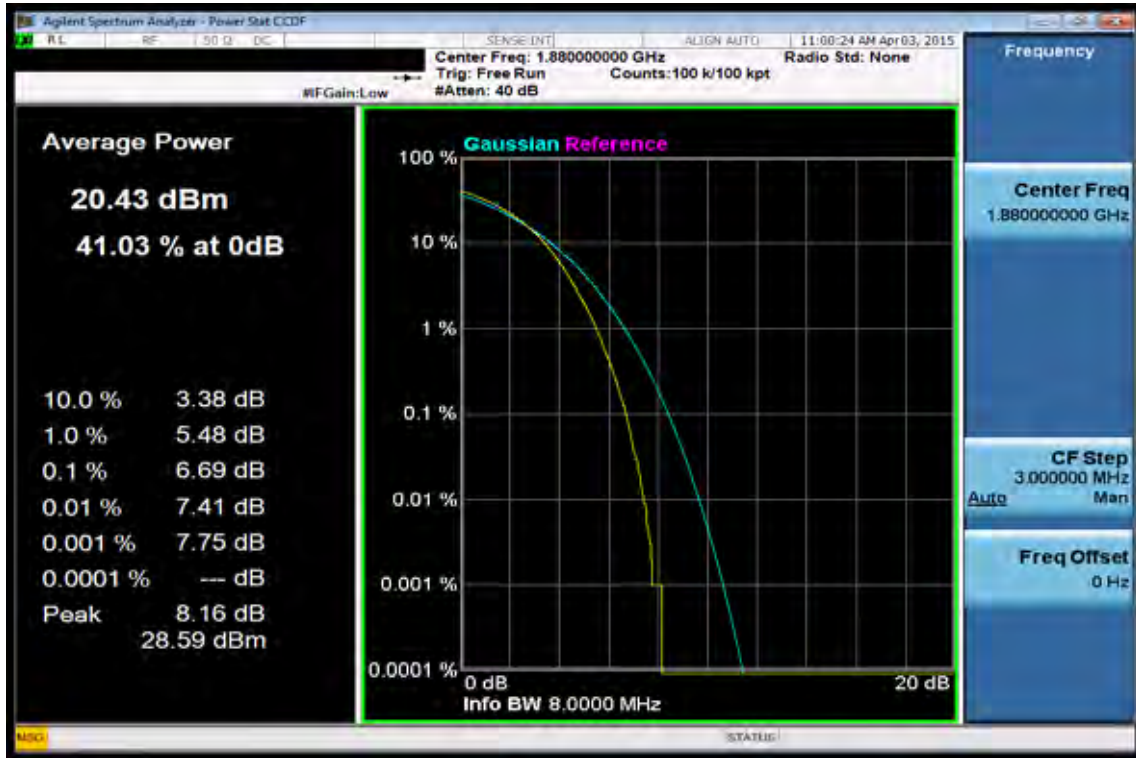
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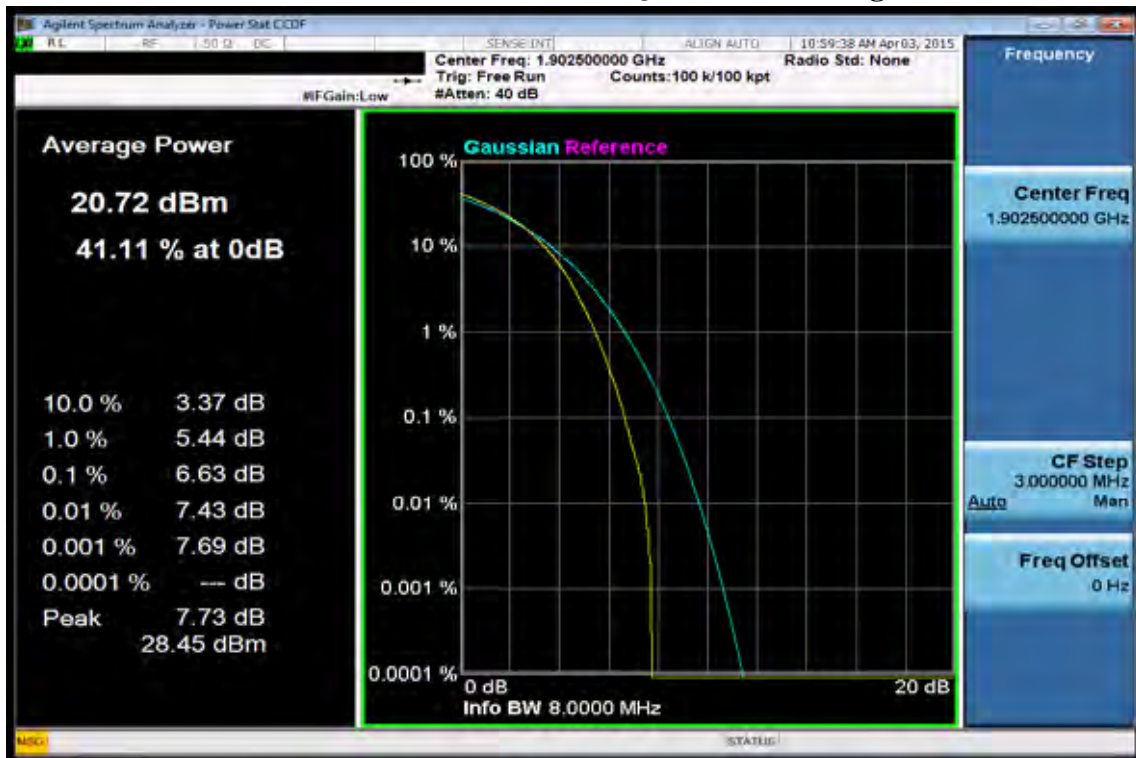
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15MHz BW LTE-Band 2 16QAM Channel Mid



15MHz BW LTE-Band 2 16QAM Channel High



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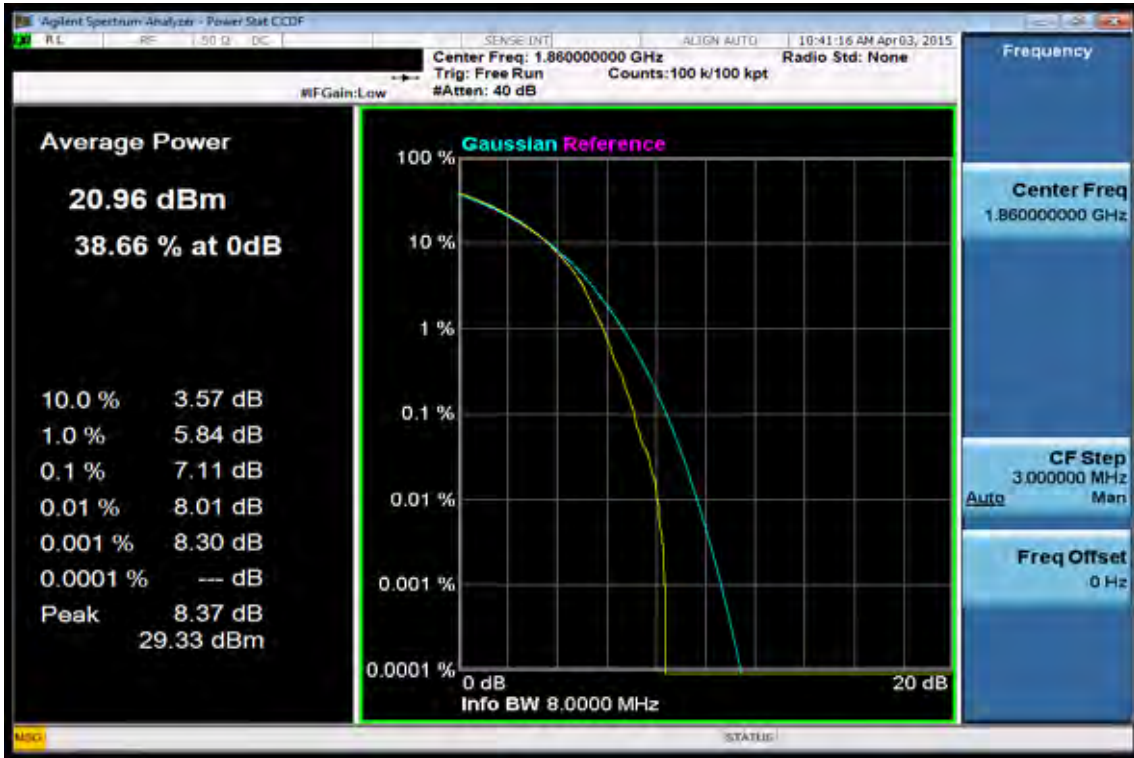
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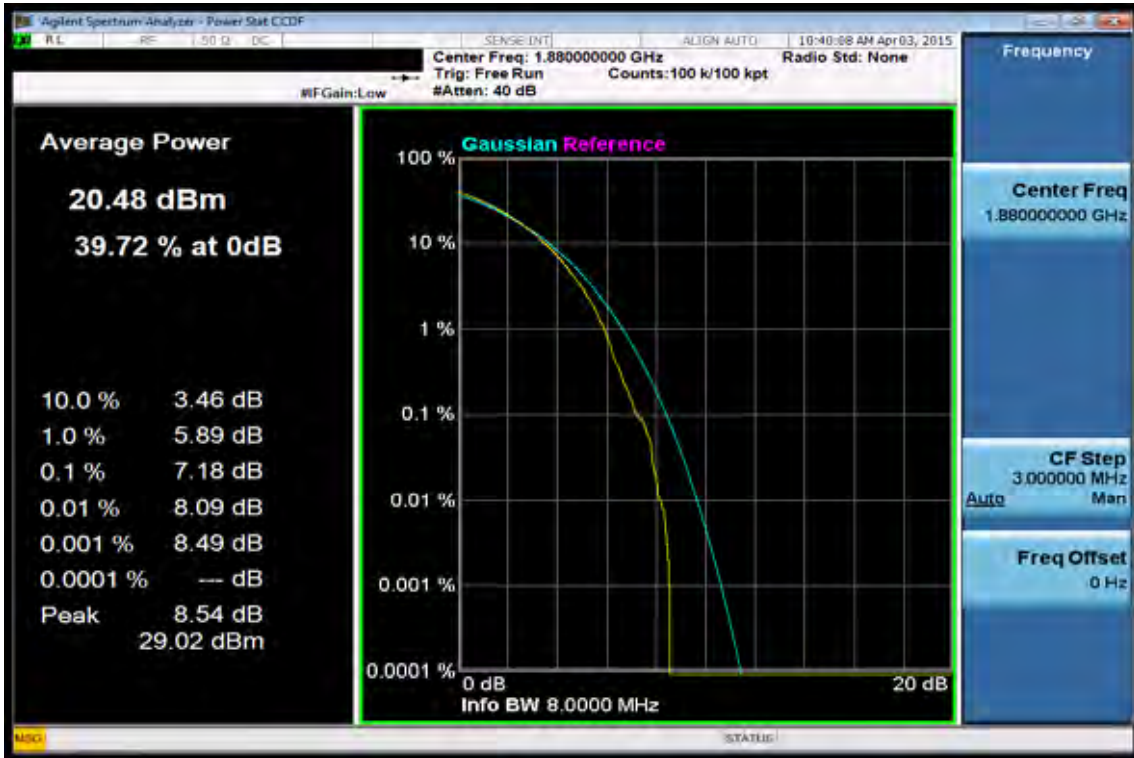
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20MHz BW LTE-Band 2 16QAM Channel Low



20MHz BW LTE-Band 2 16QAM Channel Mid



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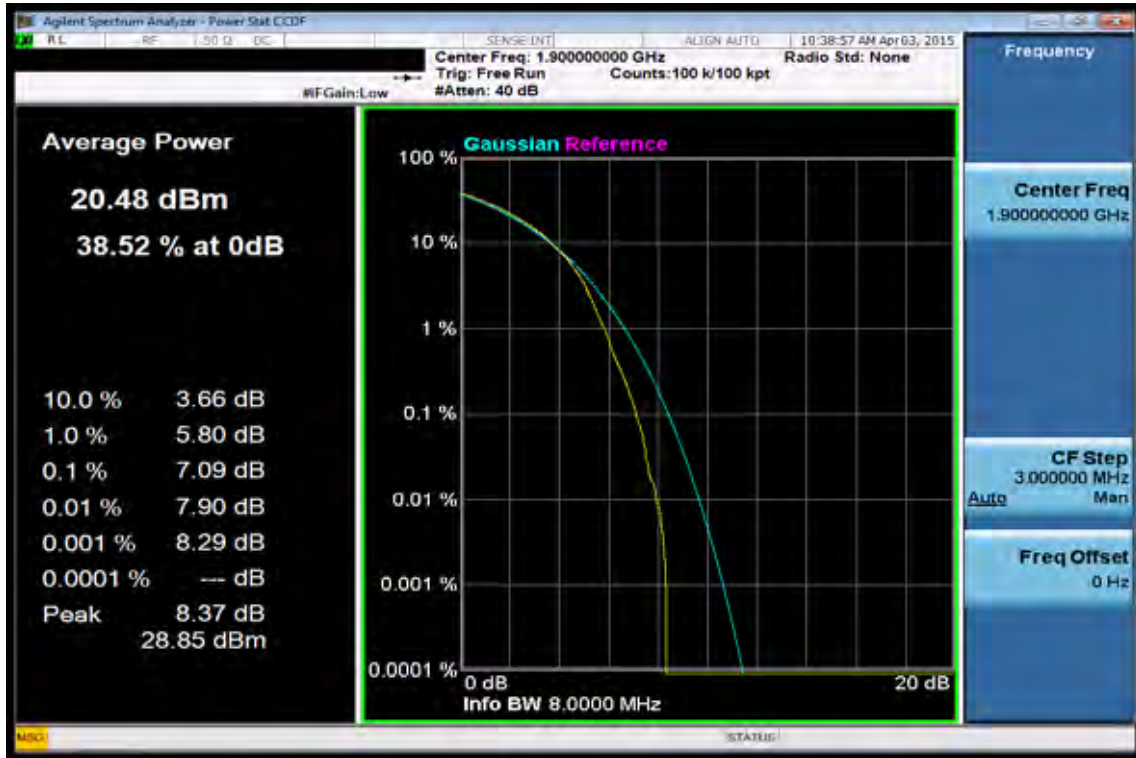
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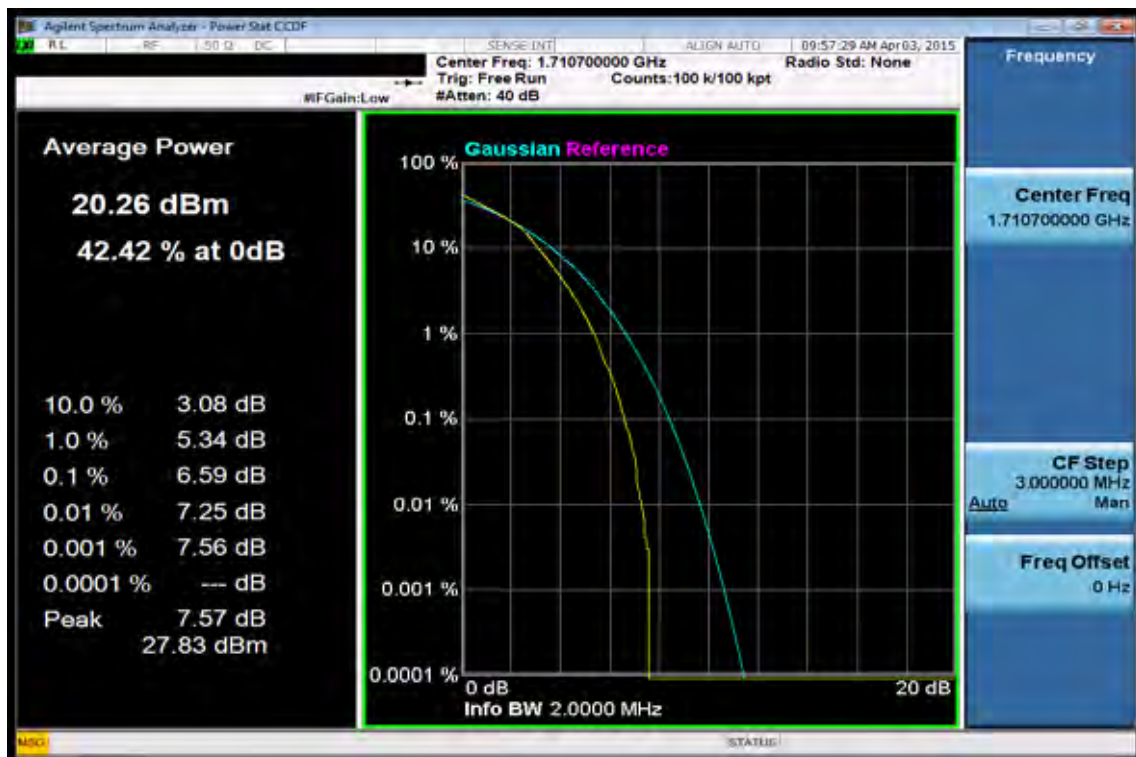
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**20MHz BW LTE-Band 2 16QAM Channel High**



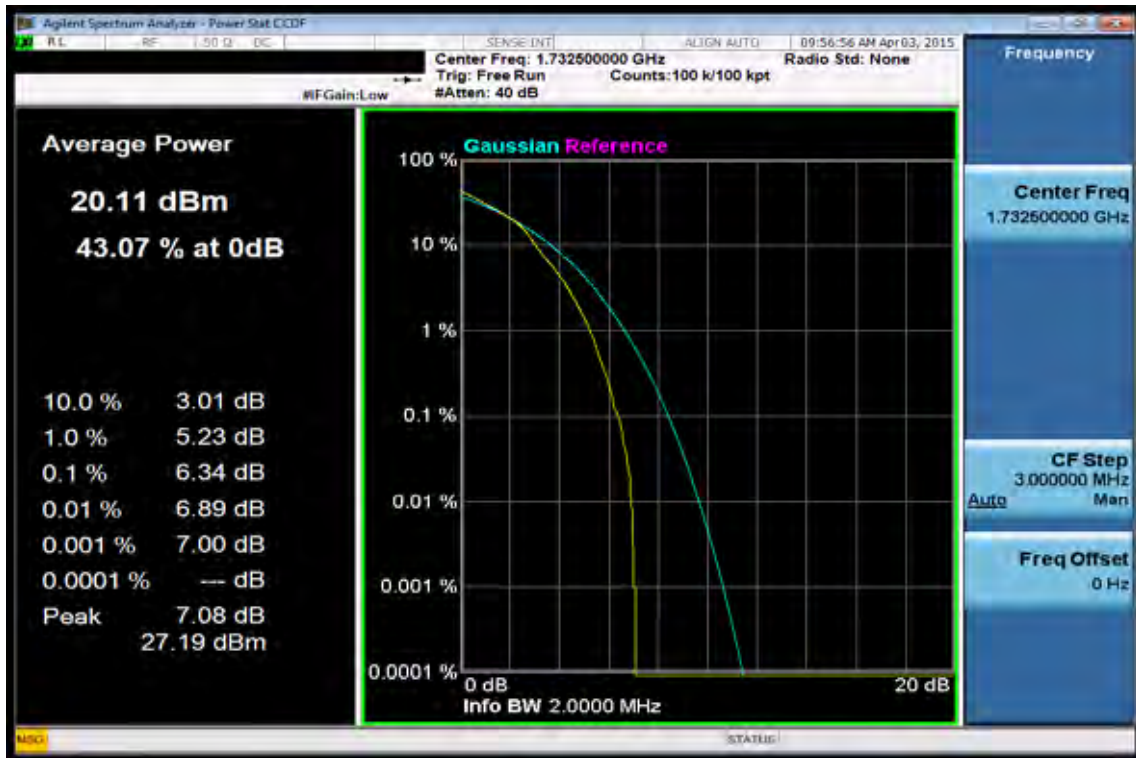
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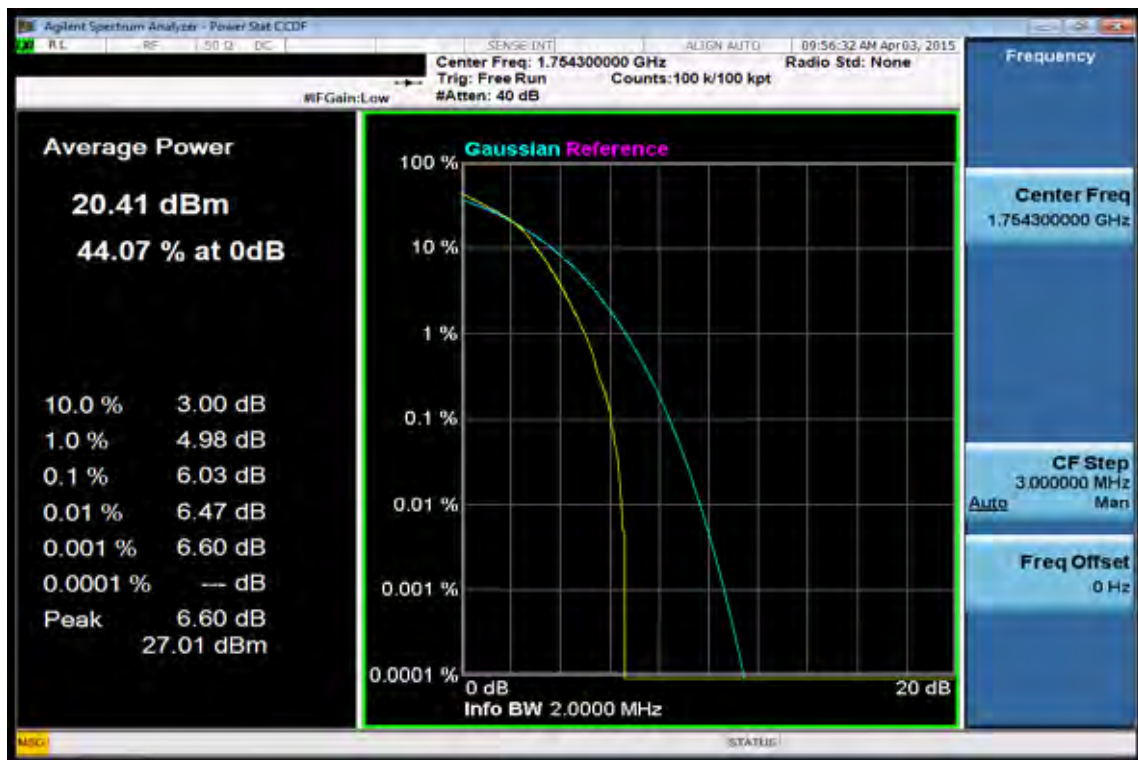
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**1.4MHz BW LTE-Band 4 16QAM Channel Mid**



**1.4MHz BW LTE-Band 4 16QAM Channel High**



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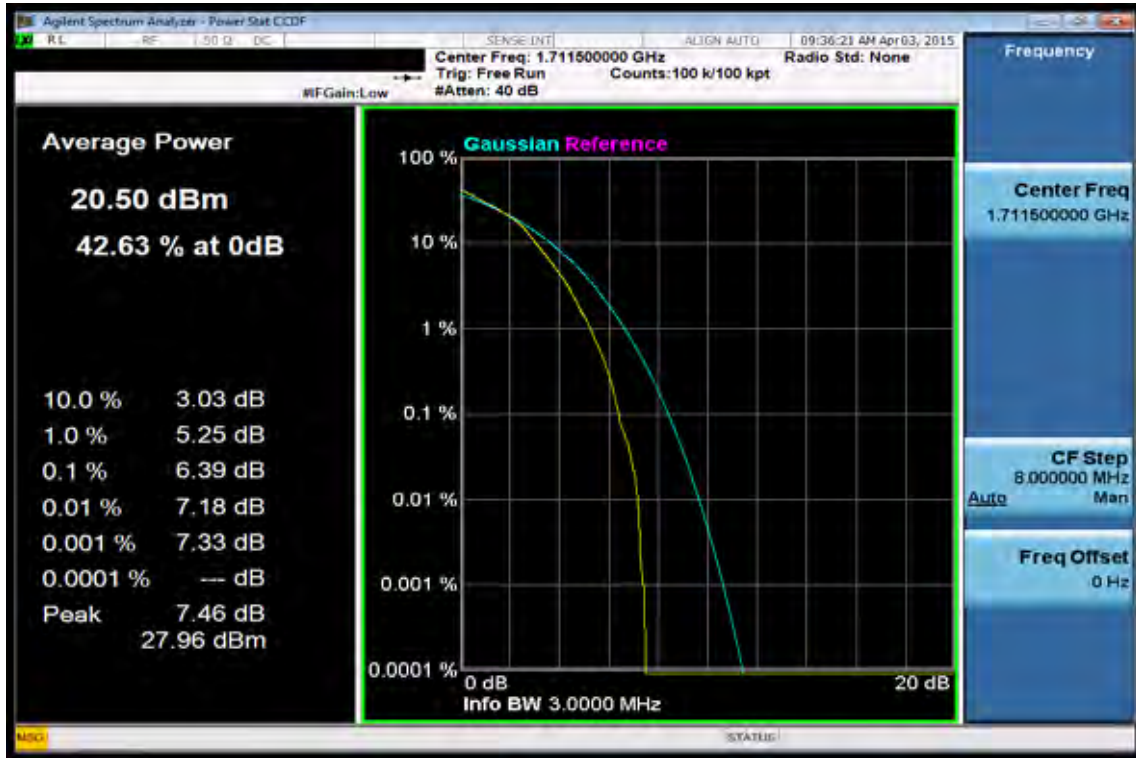
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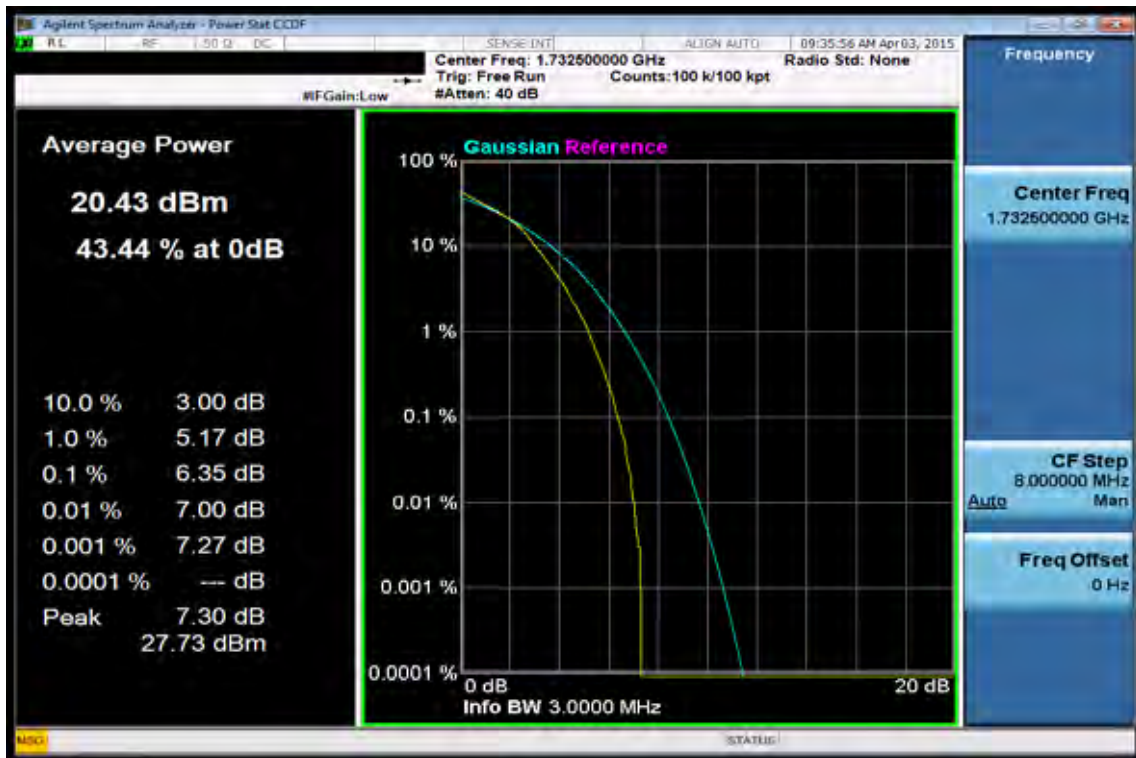
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3MHz BW LTE-Band 4 16QAM Channel Low



3MHz BW LTE-Band 4 16QAM Channel Mid



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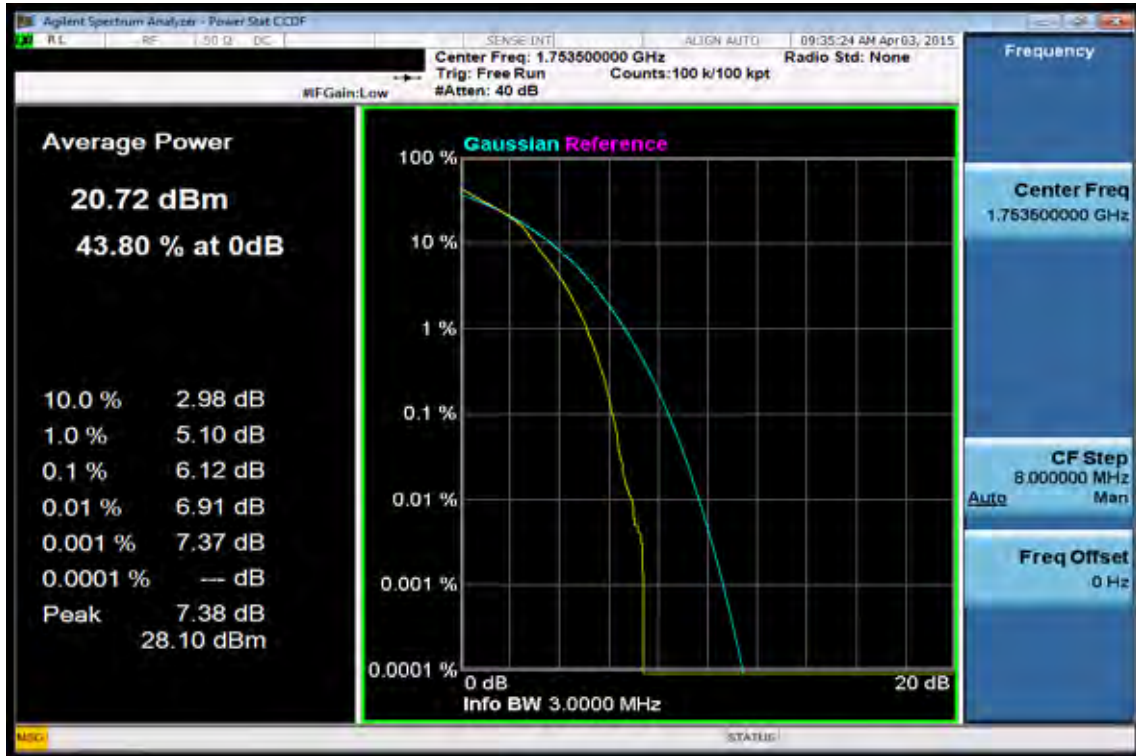
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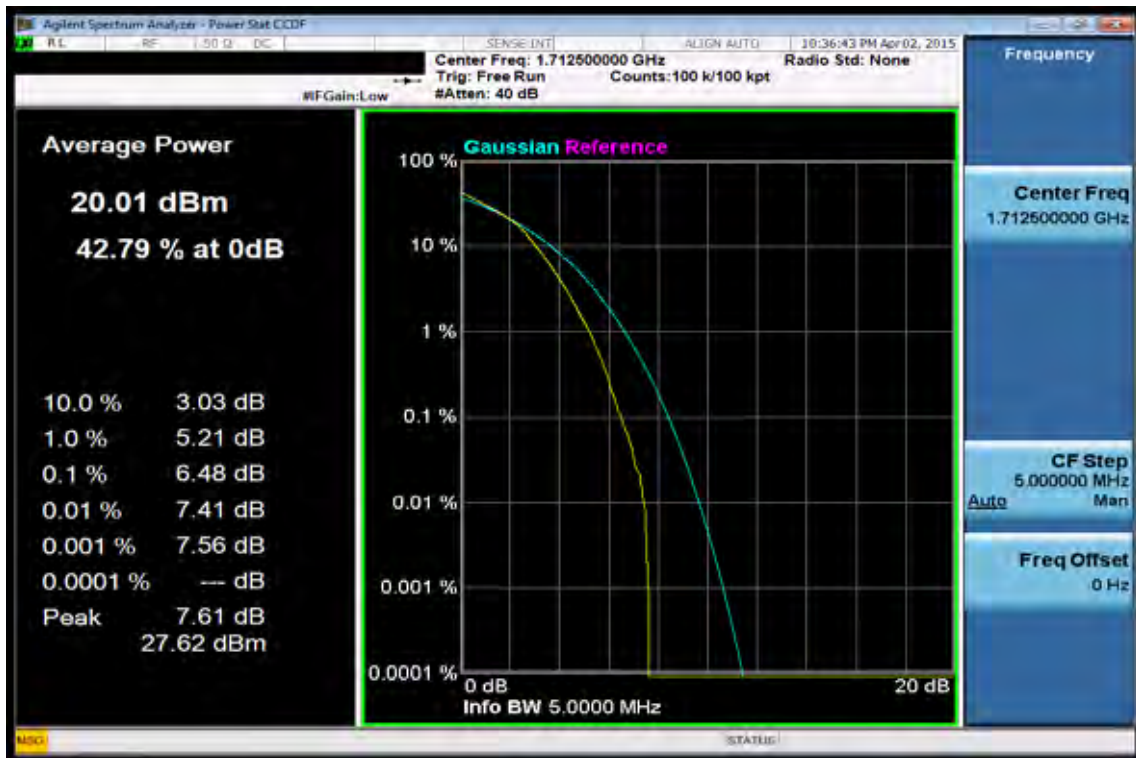
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### 3MHz BW LTE-Band 4 16QAM Channel High



### 5MHz BW LTE-Band 4 16QAM Channel Low



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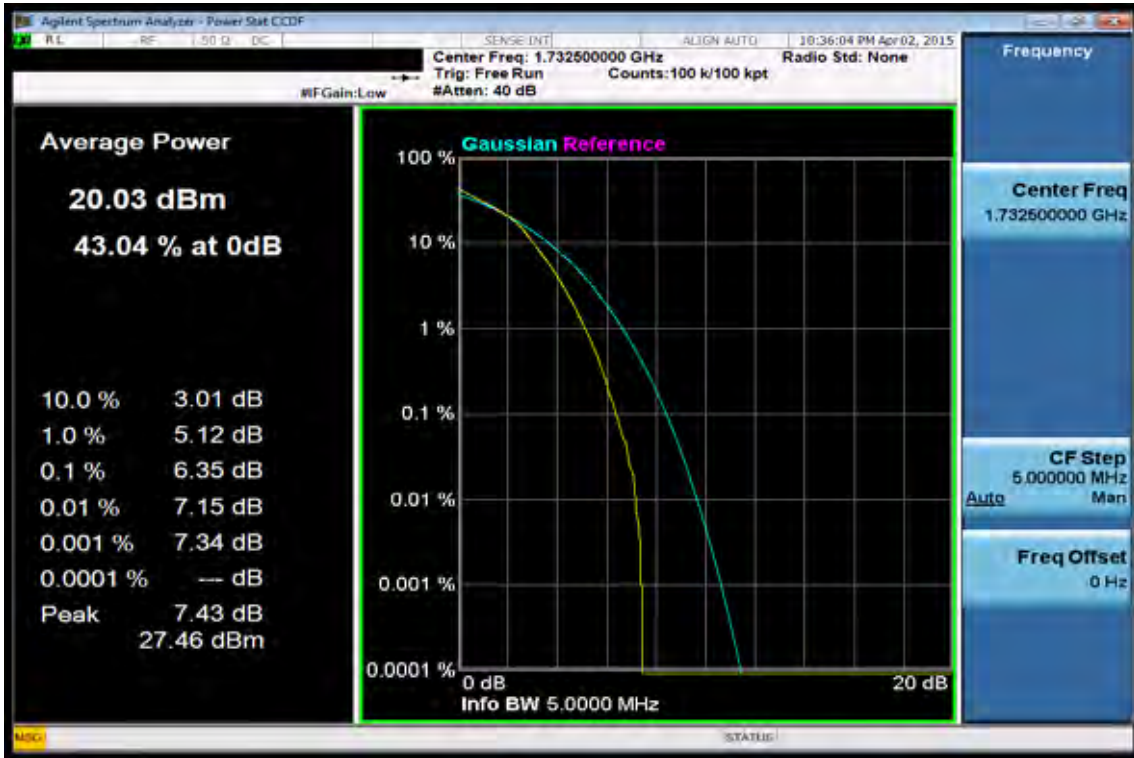
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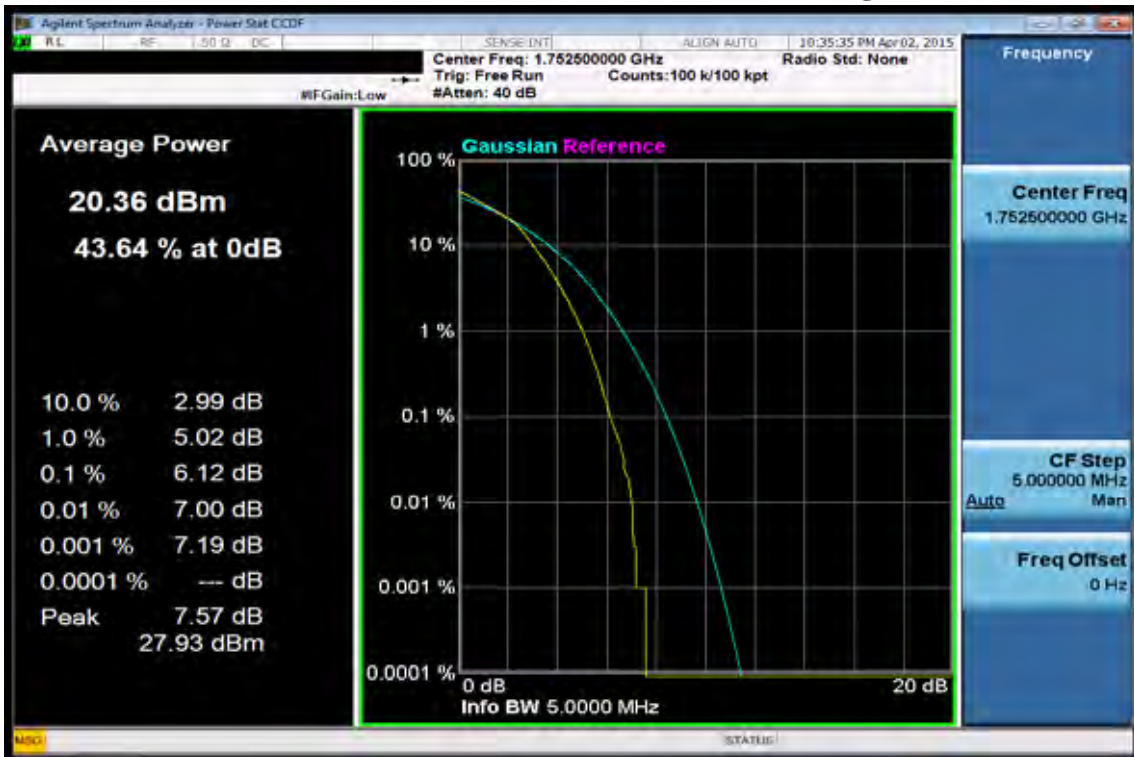
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**5MHz BW LTE-Band 4 16QAM Channel Mid**



**5MHz BW LTE-Band 4 16QAM Channel High**



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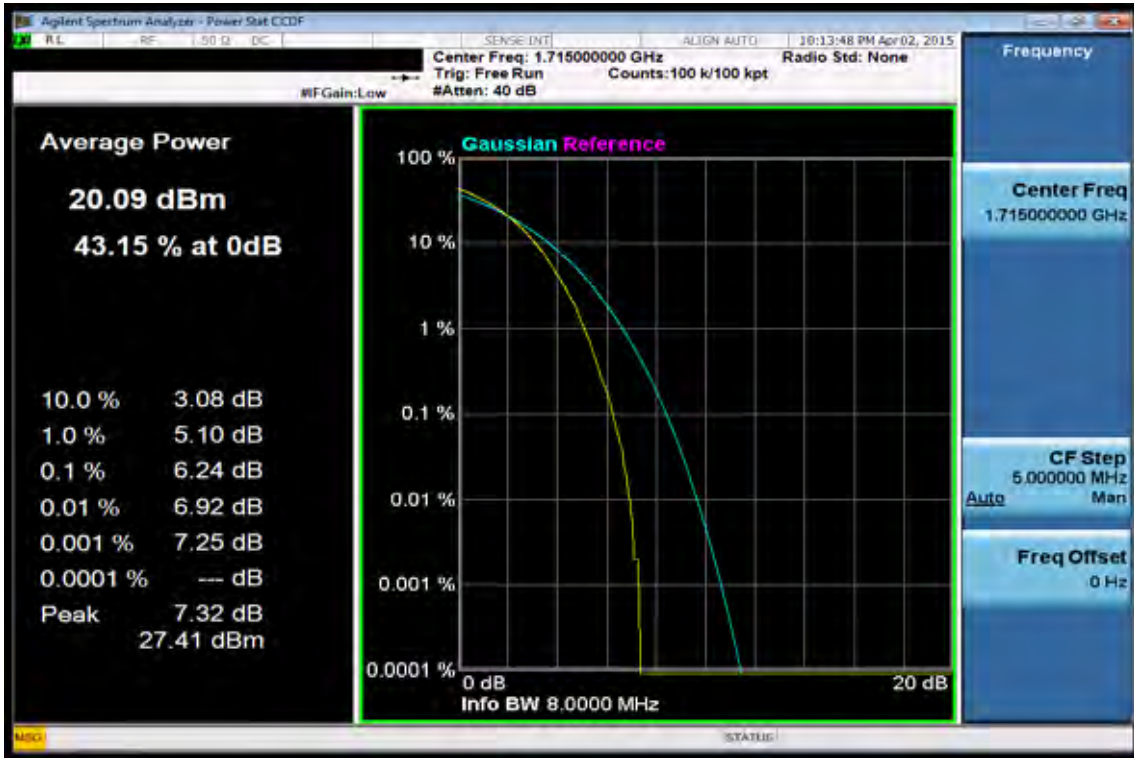
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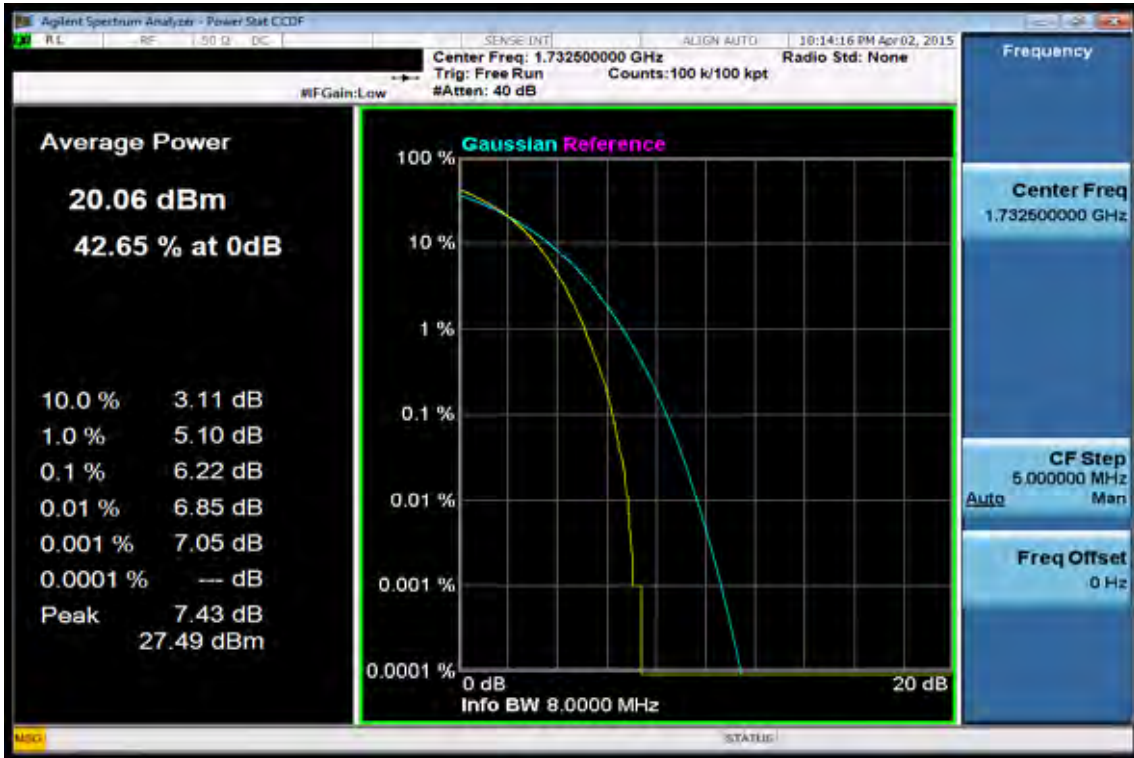
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10MHz BW LTE-Band 4 16QAM Channel Low



10MHz BW LTE-Band 4 16QAM Channel Mid



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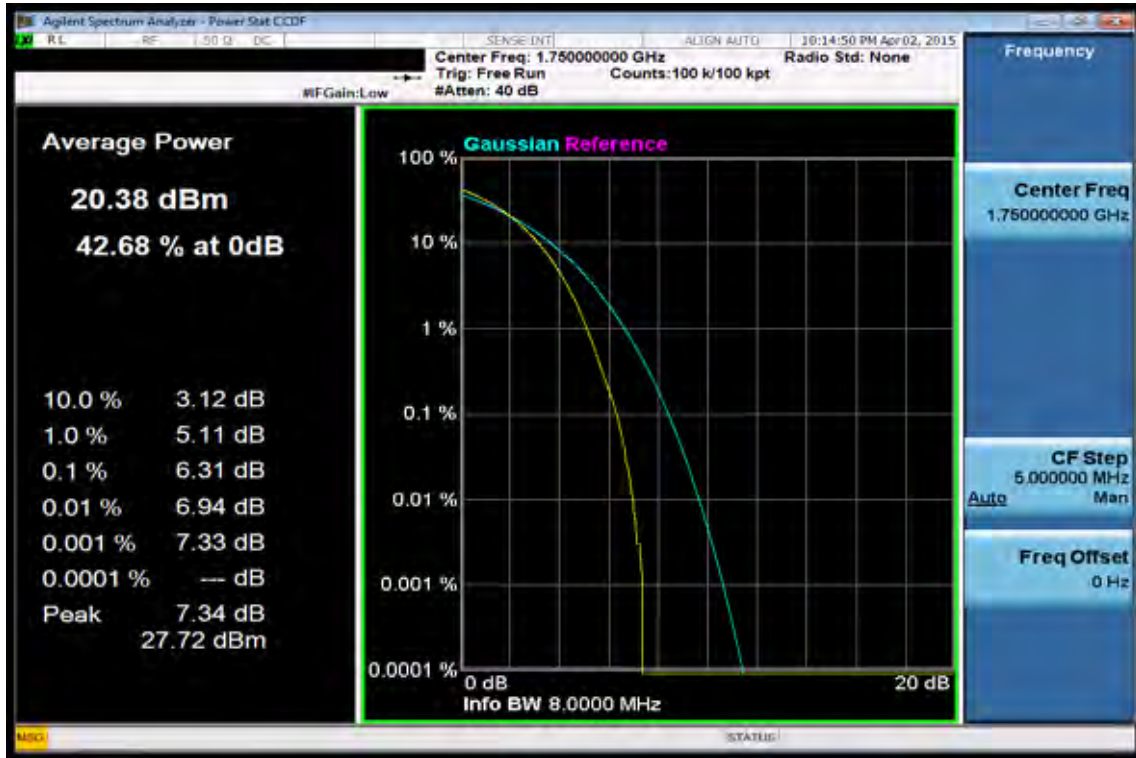
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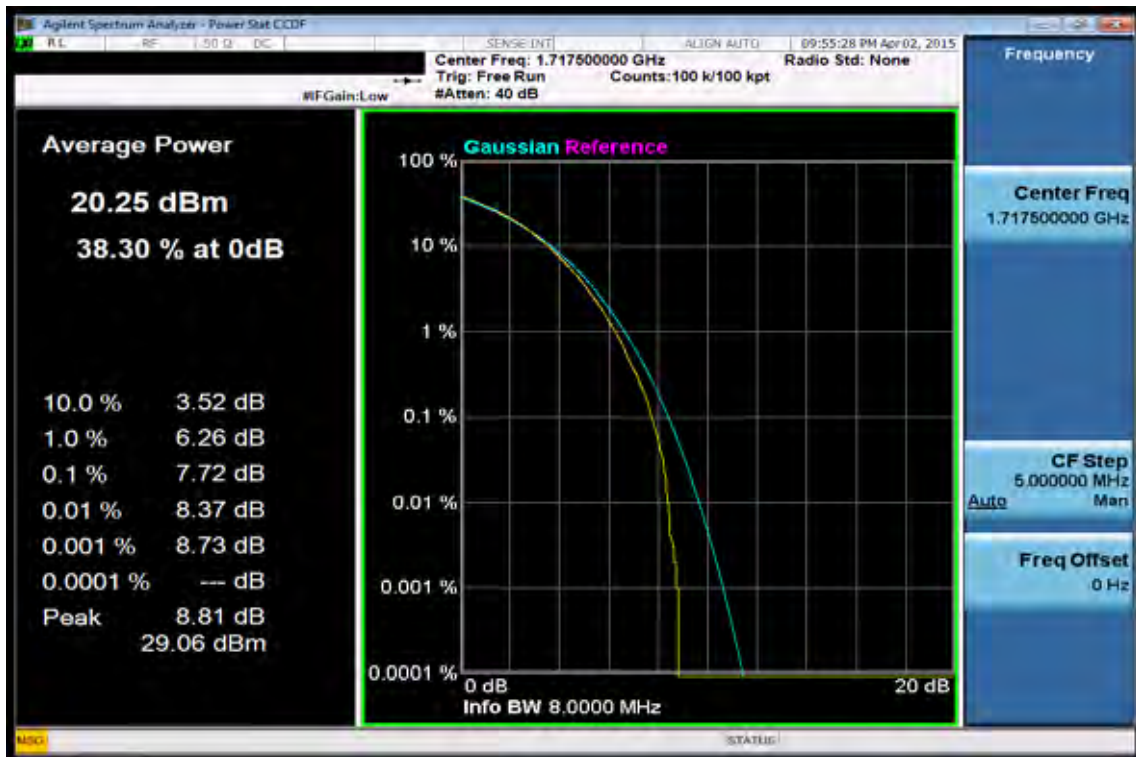
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**10MHz BW LTE-Band 4 16QAM Channel High**



**15MHz BW LTE-Band 4 16QAM Channel Low**



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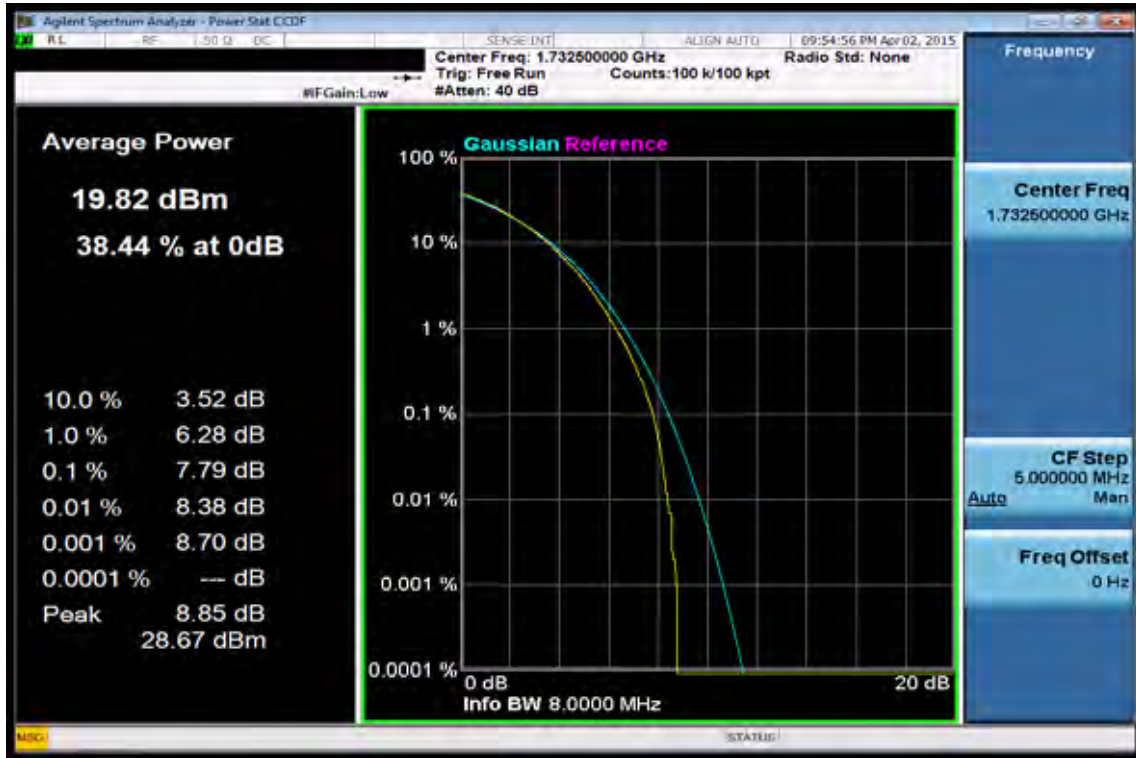
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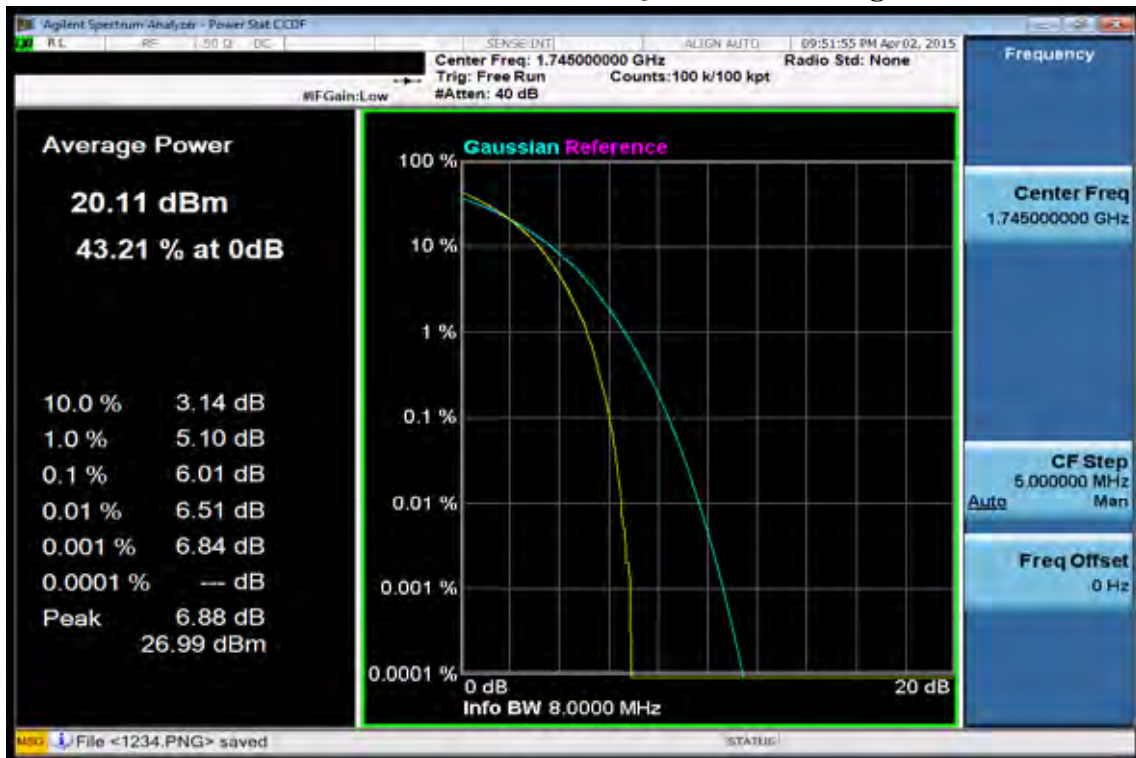
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15MHz BW LTE-Band 4 16QAM Channel Mid



15MHz BW LTE-Band 4 16QAM Channel High



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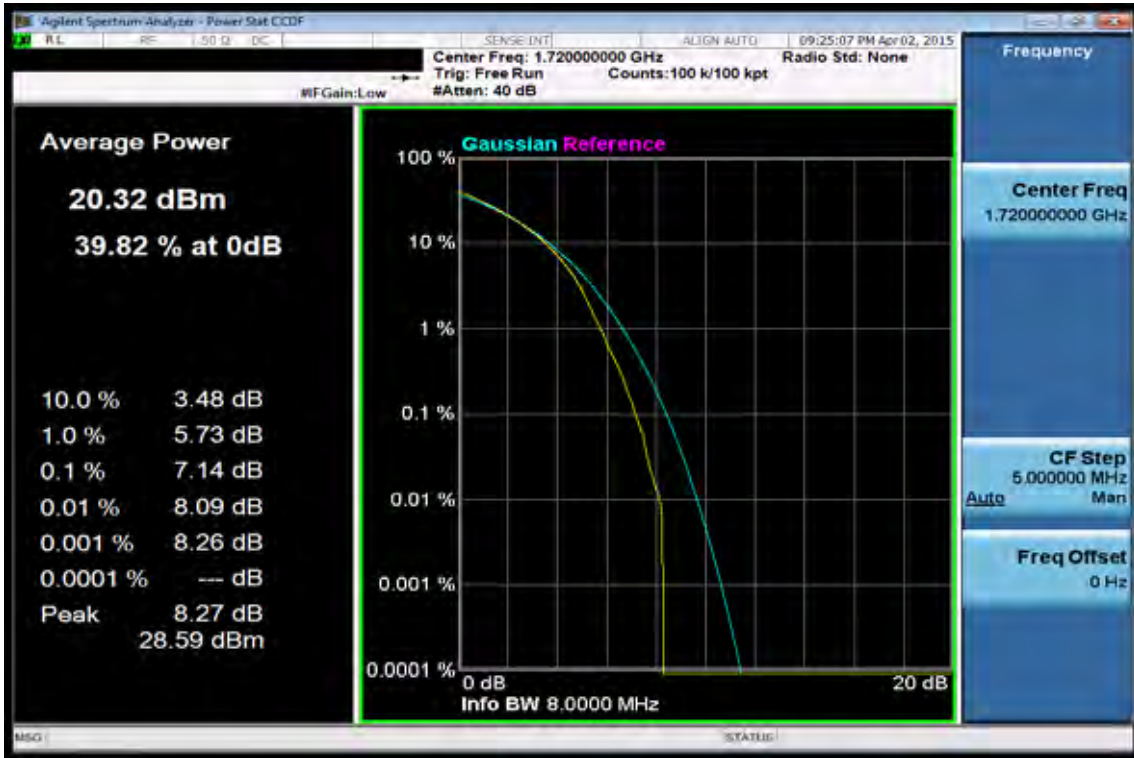
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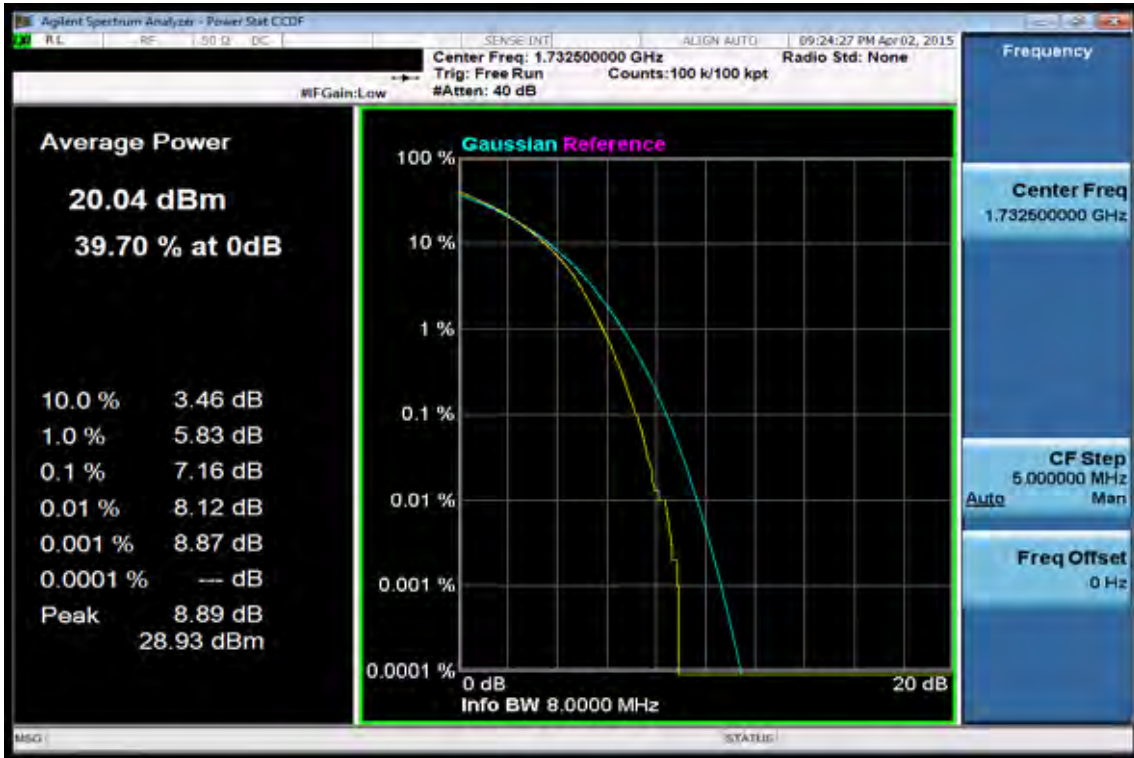
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20MHz BW LTE-Band 4 16QAM Channel Low



20MHz BW LTE-Band 4 16QAM Channel Mid



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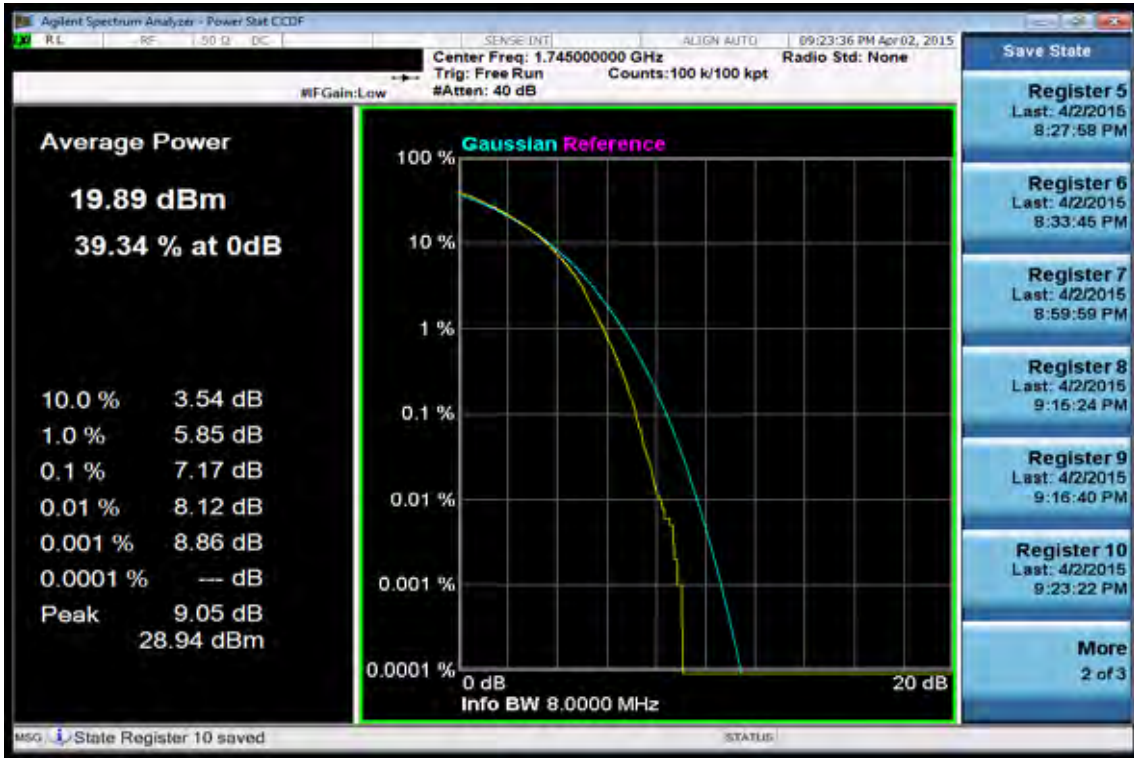
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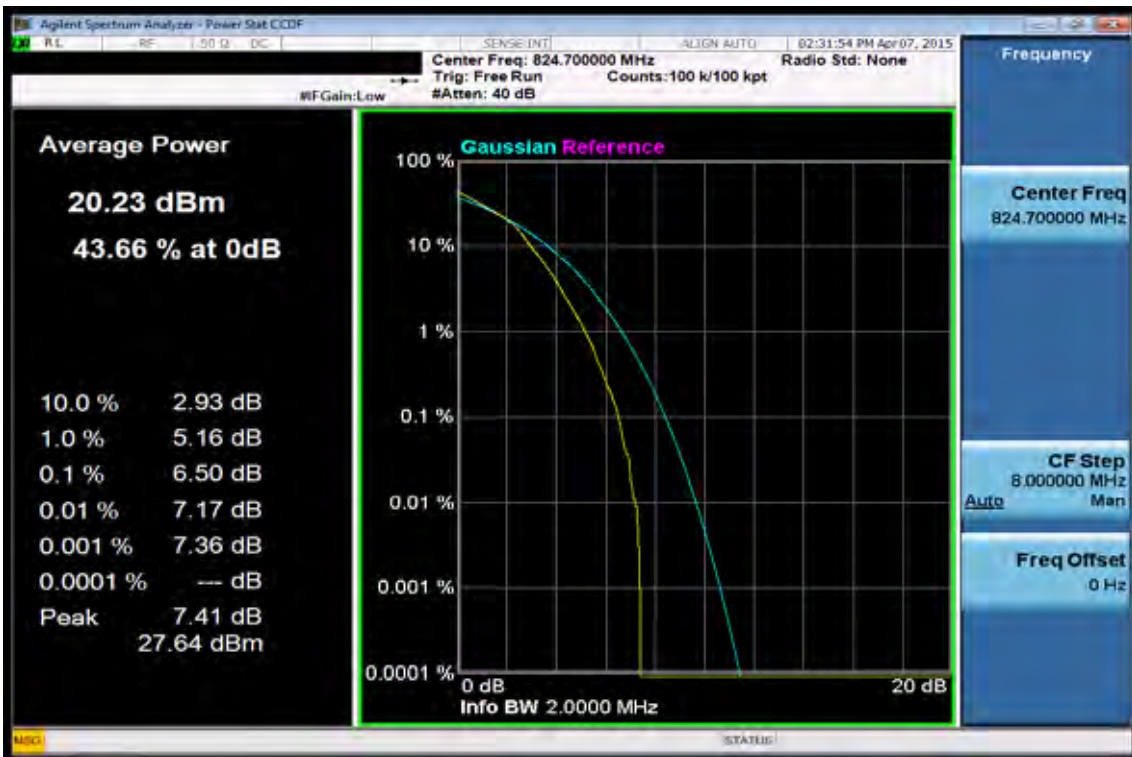
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20MHz BW LTE-Band 4 16QAM Channel High



1.4MHz BW LTE-Band 5 16QAM Channel Low



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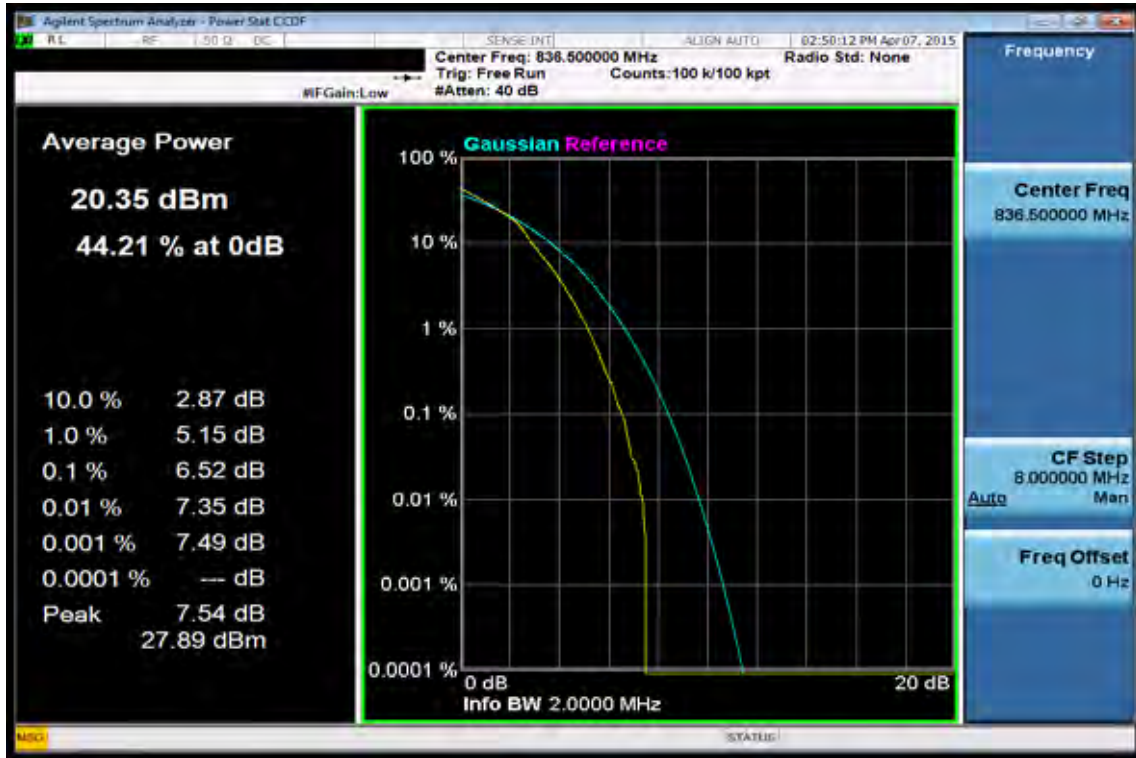
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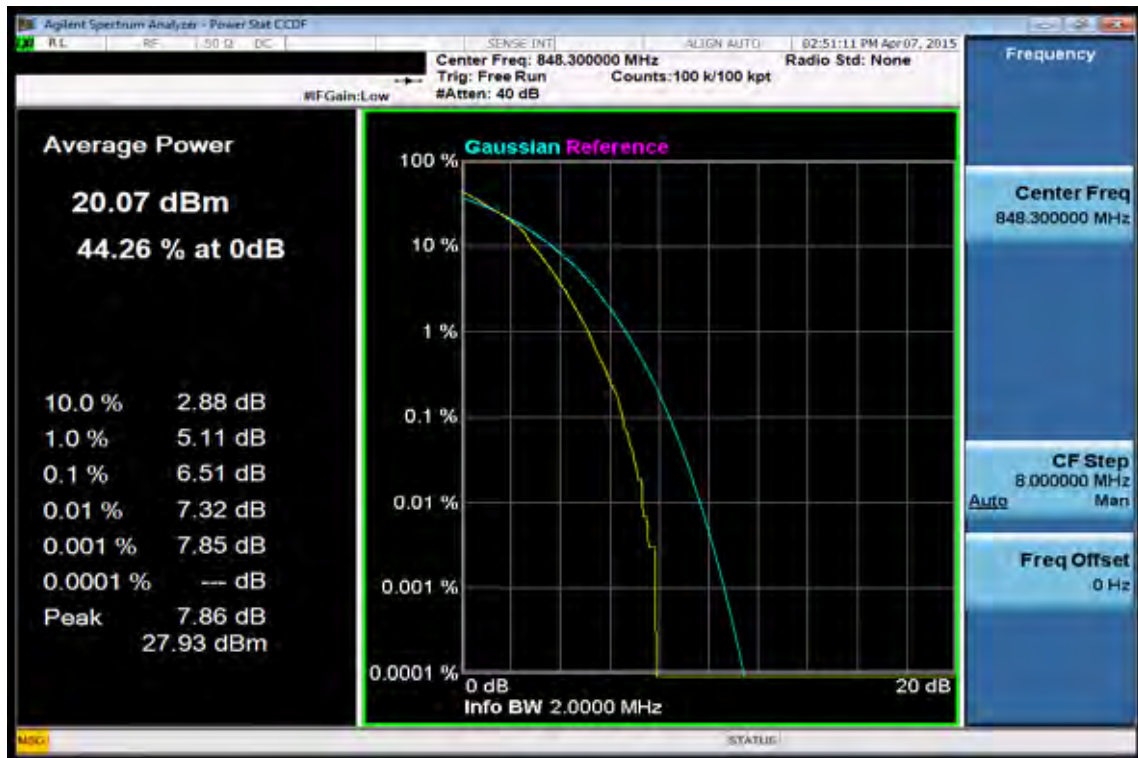
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1.4MHz BW LTE-Band 5 16QAM Channel Mid



1.4MHz BW LTE-Band 5 16QAM Channel High



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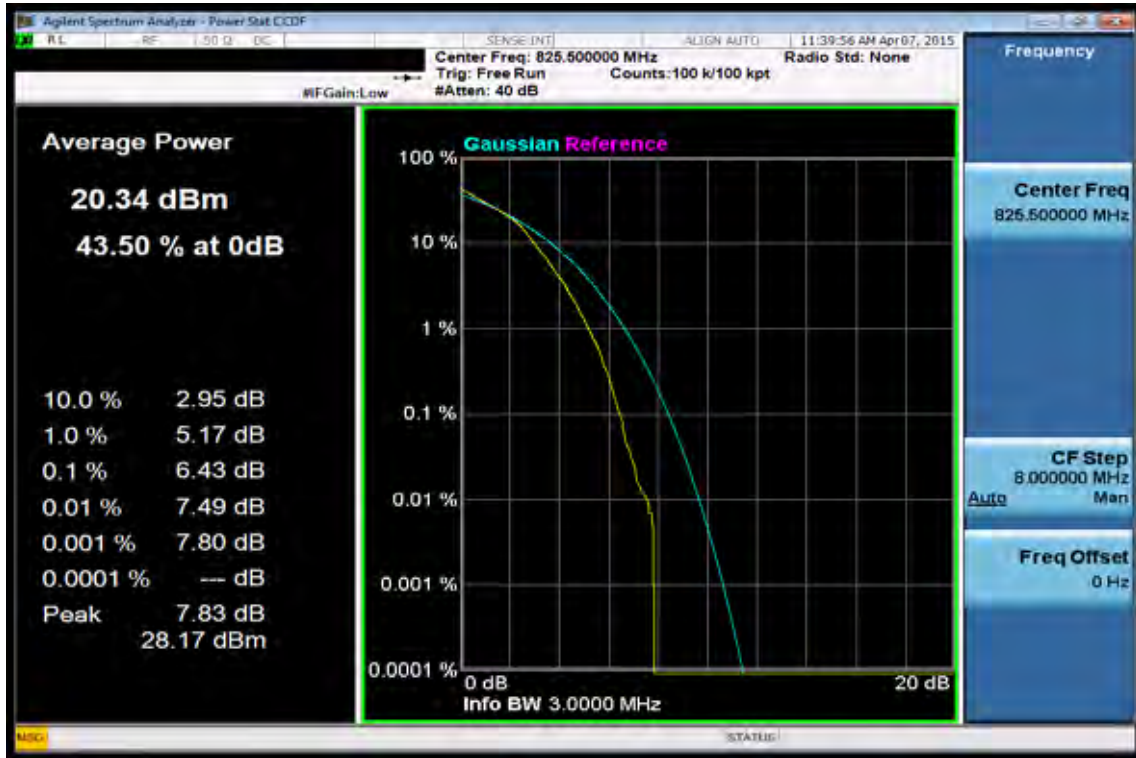
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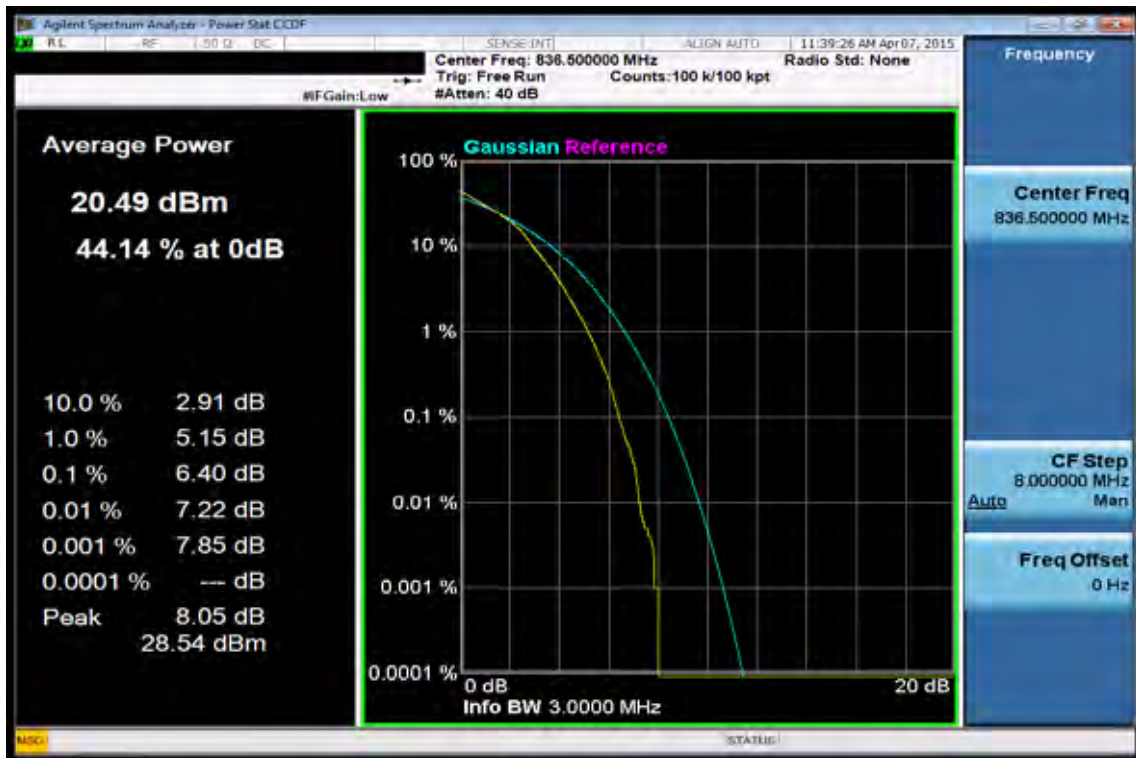
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3MHz BW LTE-Band 5 16QAM Channel Low



3MHz BW LTE-Band 5 16QAM Channel Mid



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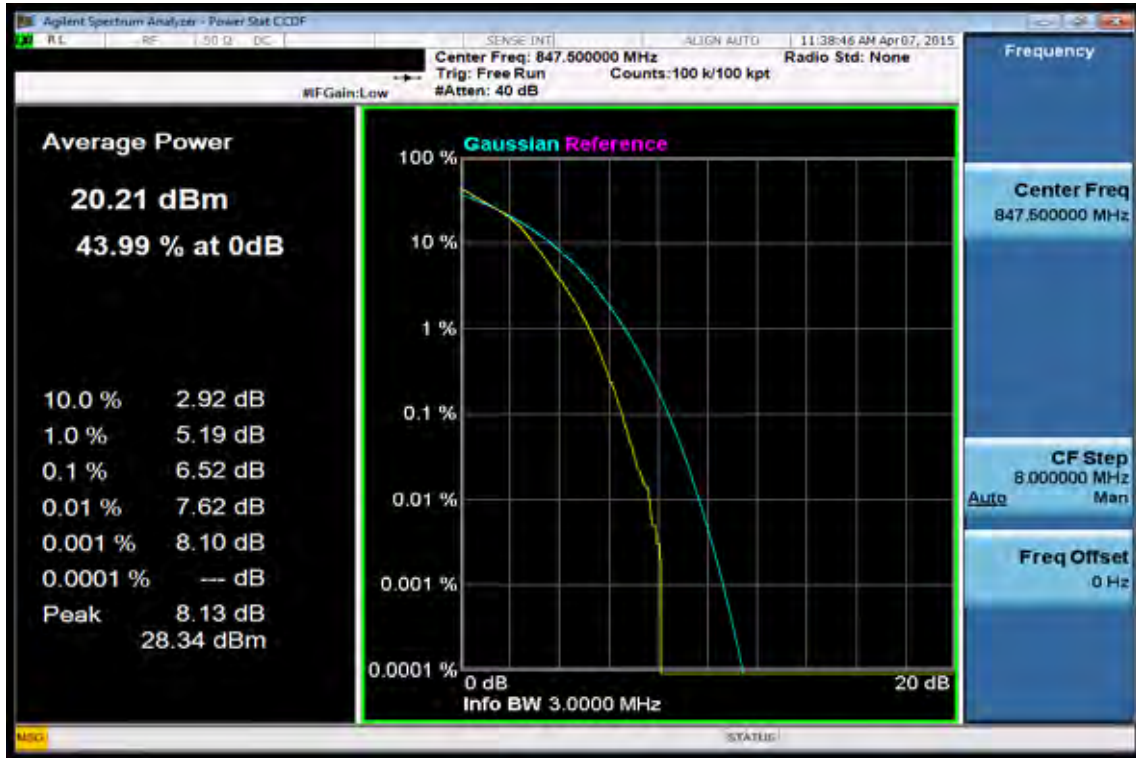
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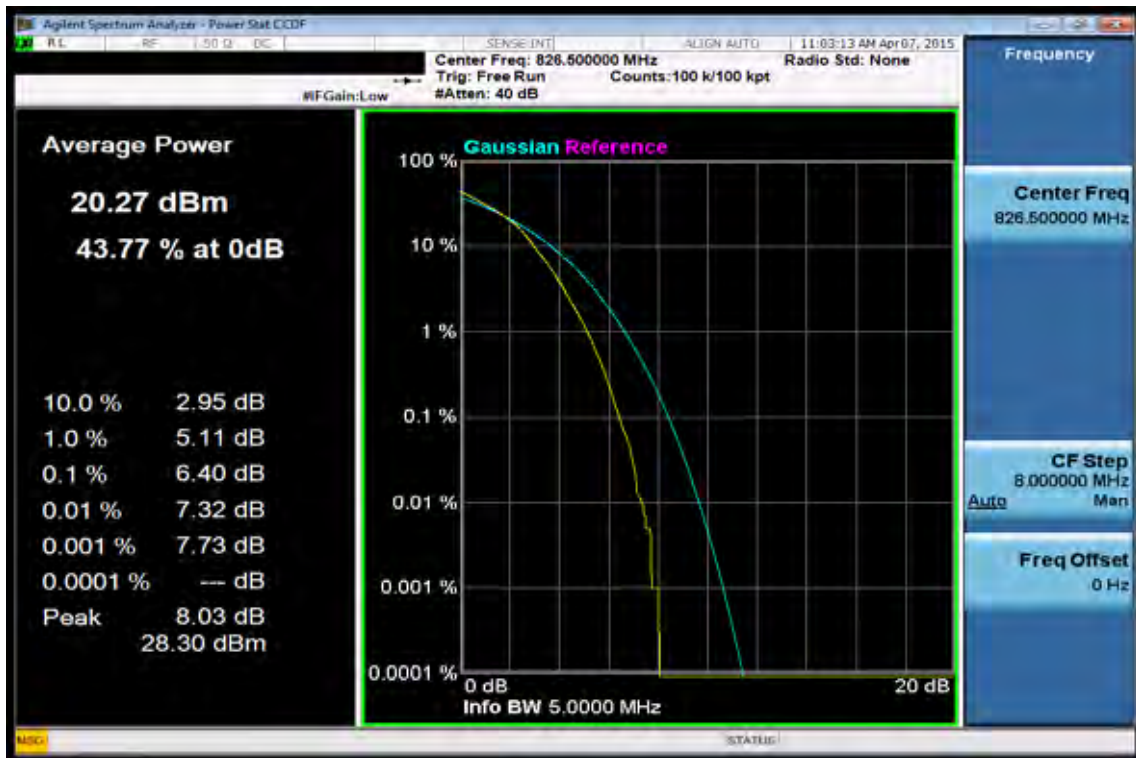
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**3MHz BW LTE-Band 5 16QAM Channel High**



**5MHz BW LTE-Band 5 16QAM Channel Low**



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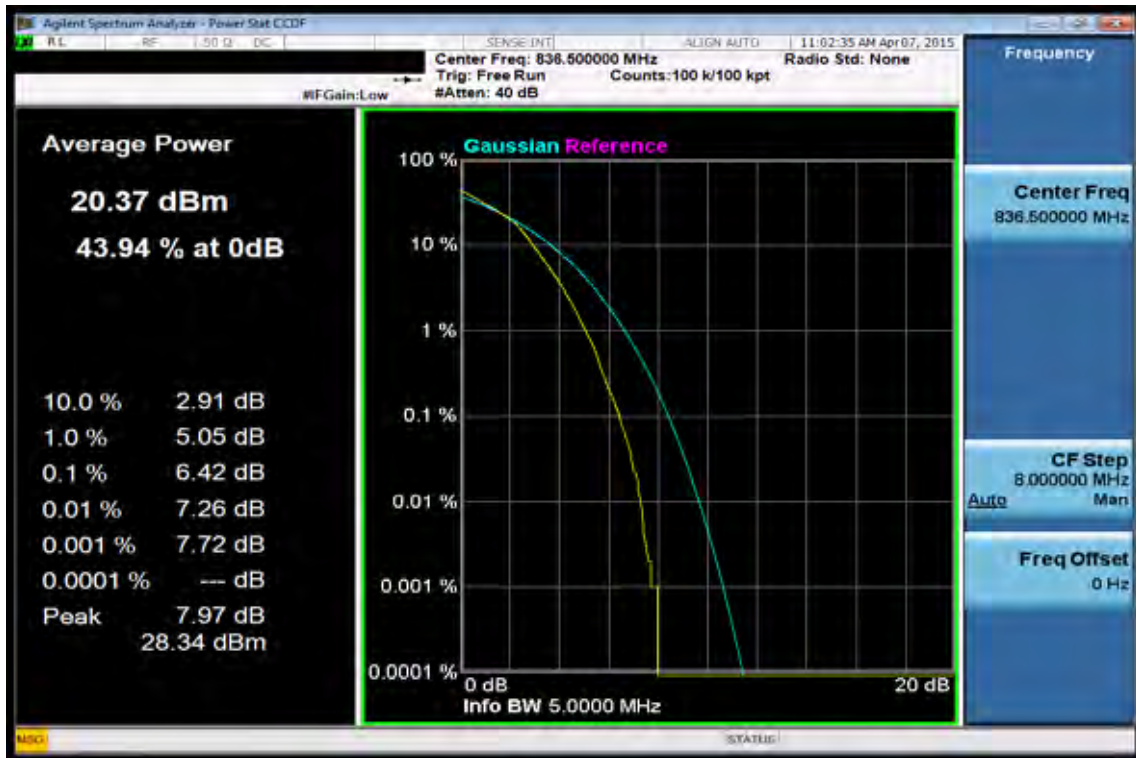
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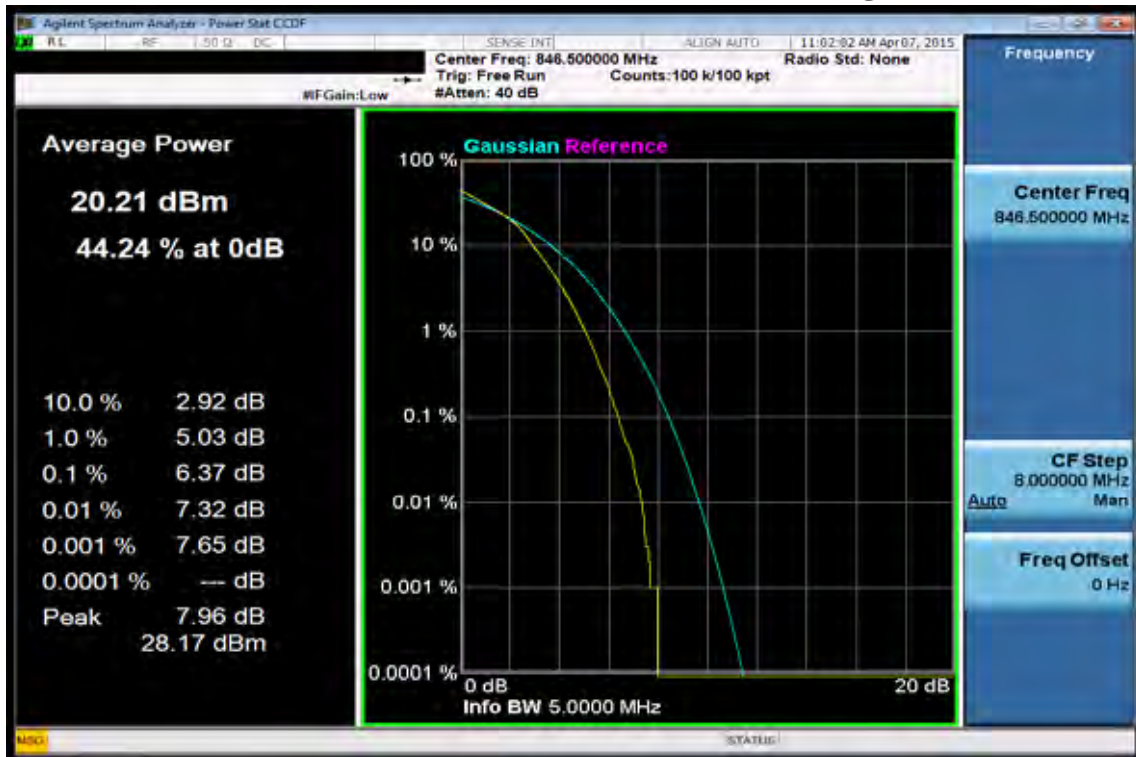
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**5MHz BW LTE-Band 5 16QAM Channel Mid**



**5MHz BW LTE-Band 5 16QAM Channel High**



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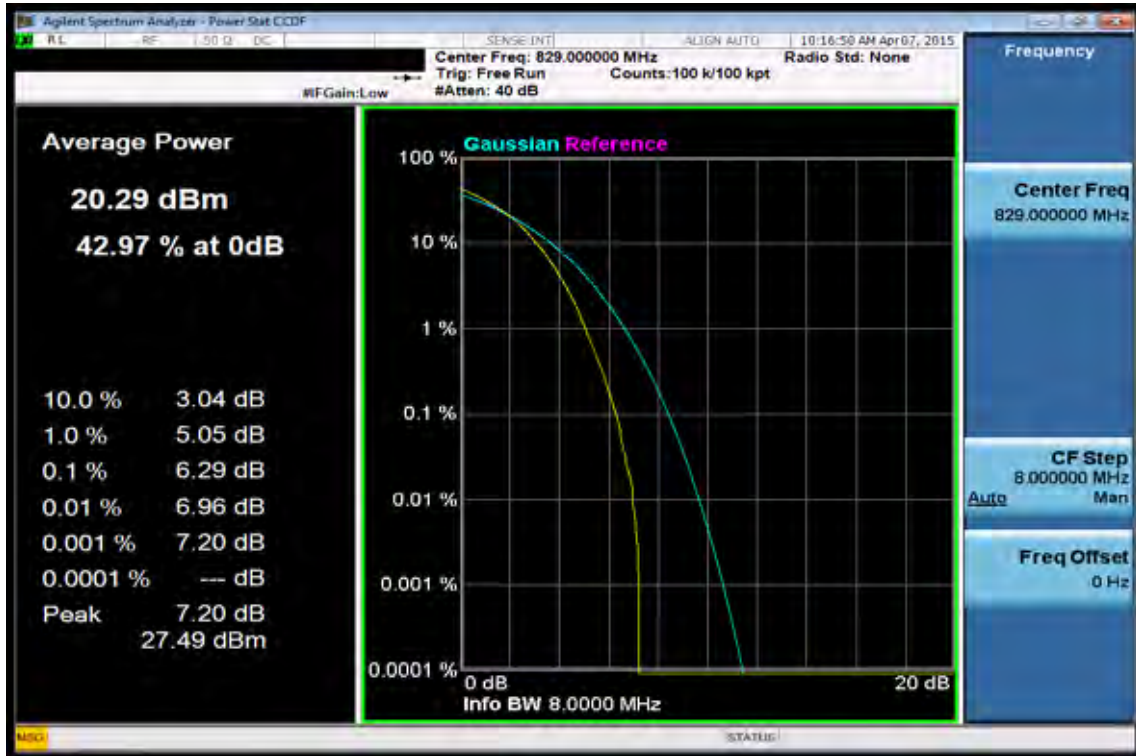
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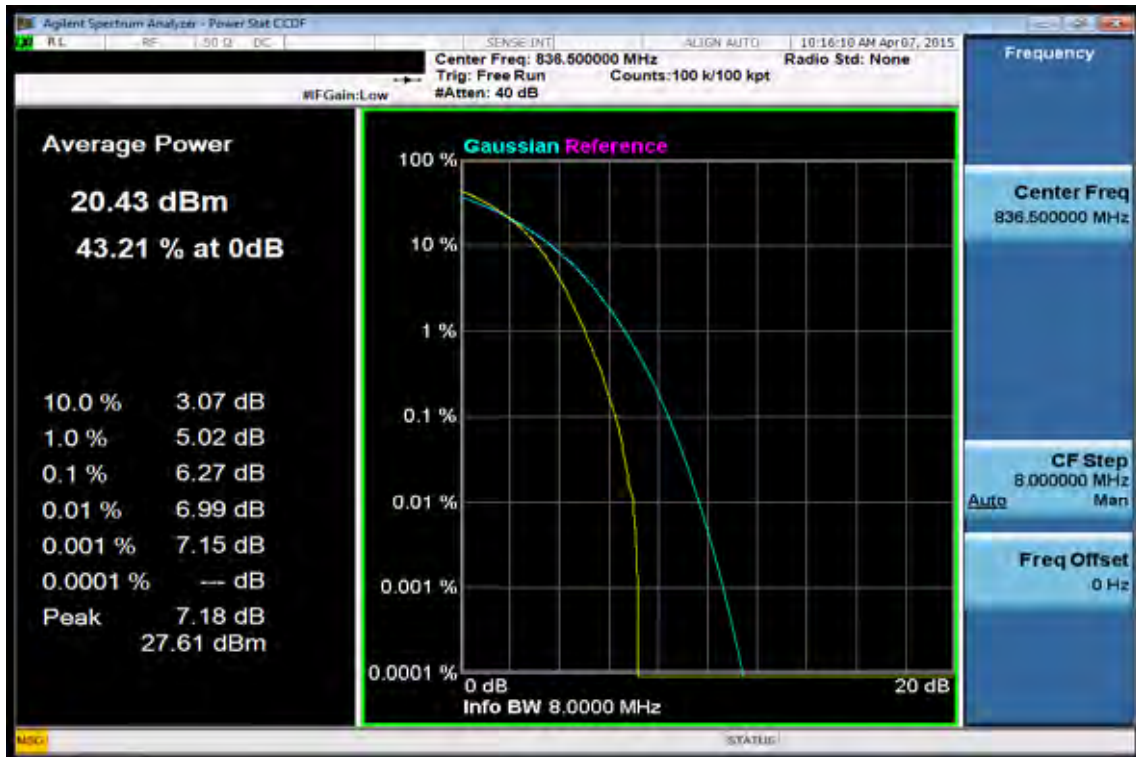
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10MHz BW LTE-Band 5 16QAM Channel Low



10MHz BW LTE-Band 5 16QAM Channel Mid



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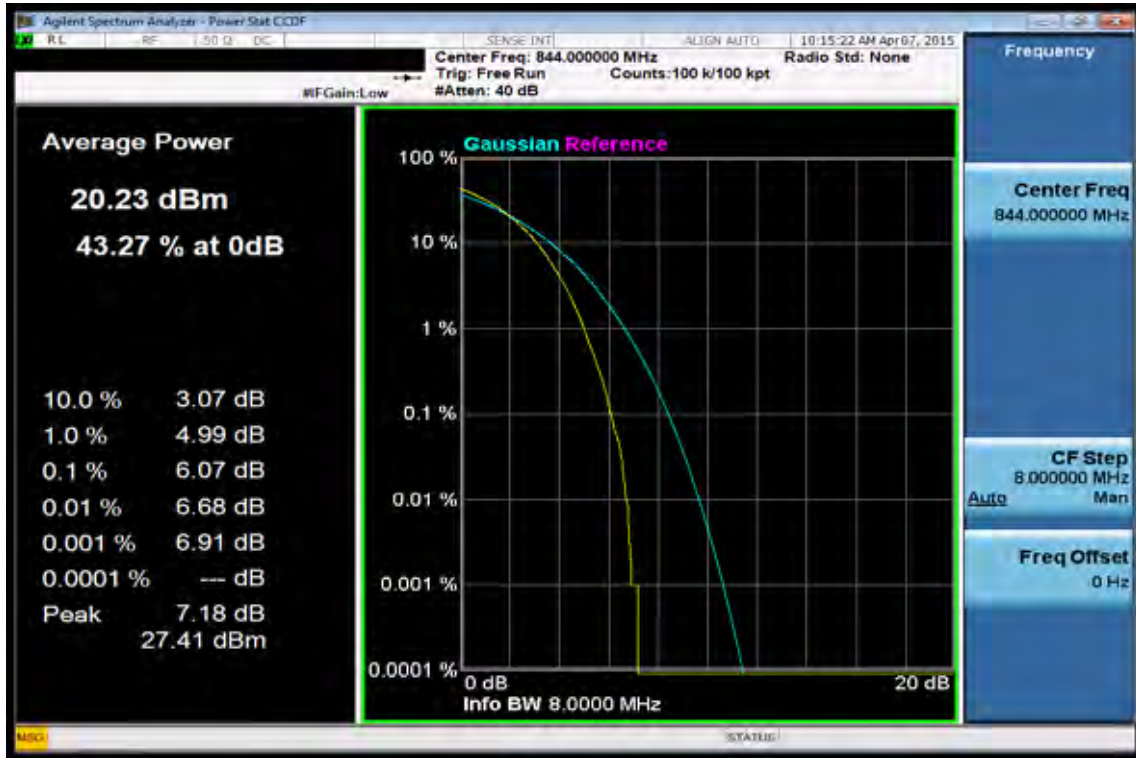
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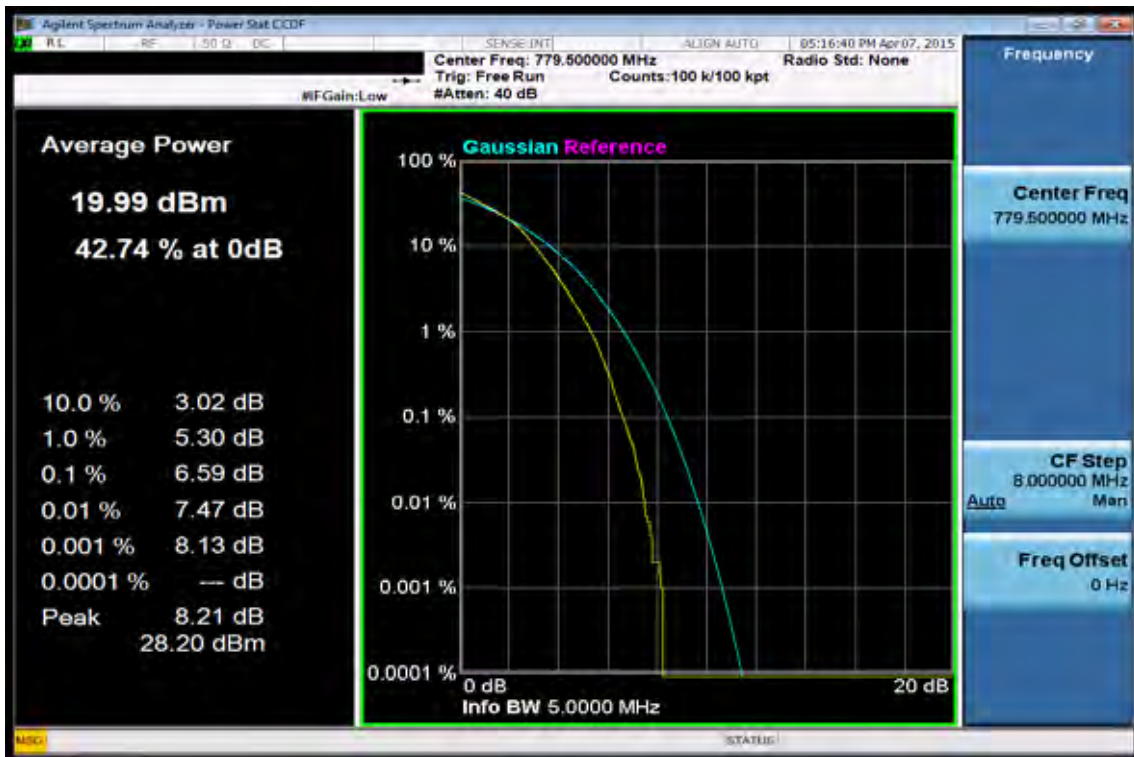
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**10MHz BW LTE-Band 5 16QAM Channel High**



**5MHz BW LTE-Band 13 16QAM Channel Low**



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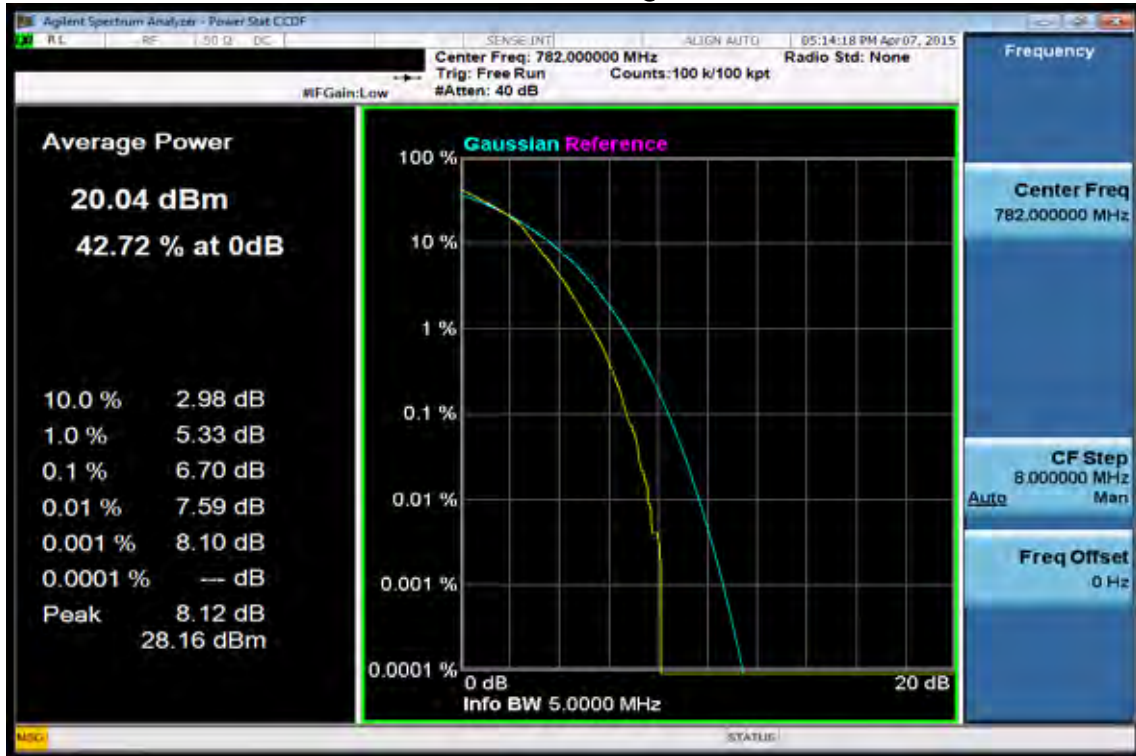
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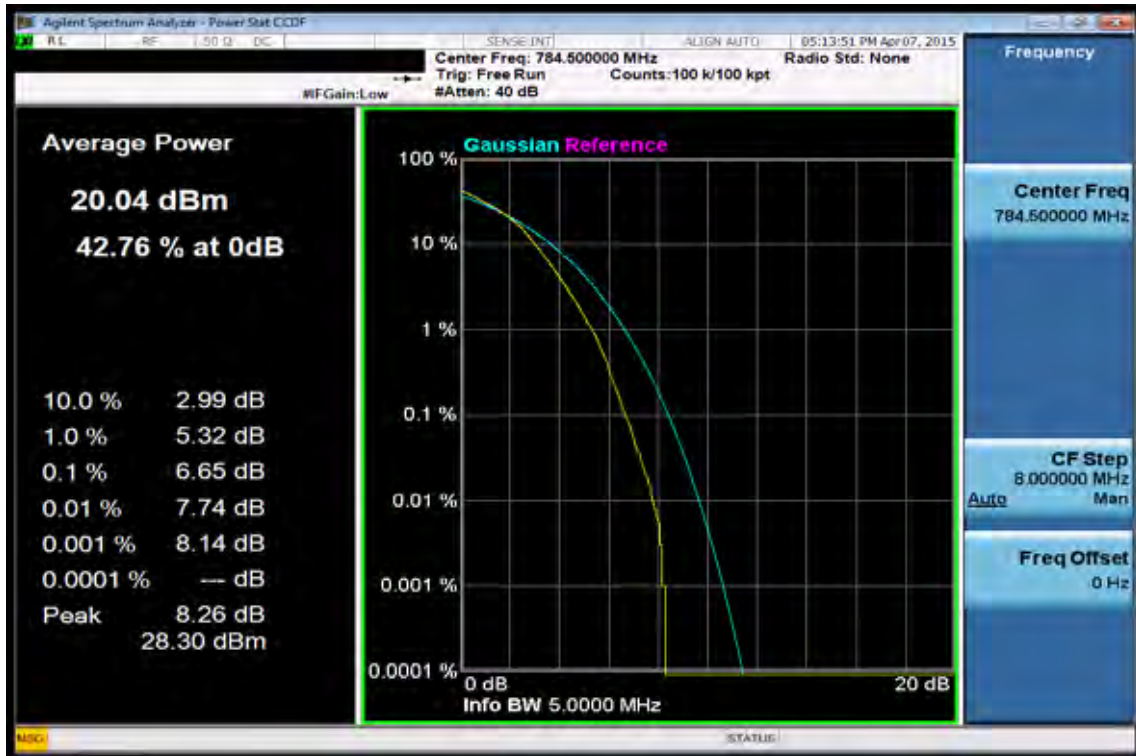
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**5MHz BW LTE-Band 13 16QAM Channel Mid**



**5MHz BW LTE-Band 13 16QAM Channel High**



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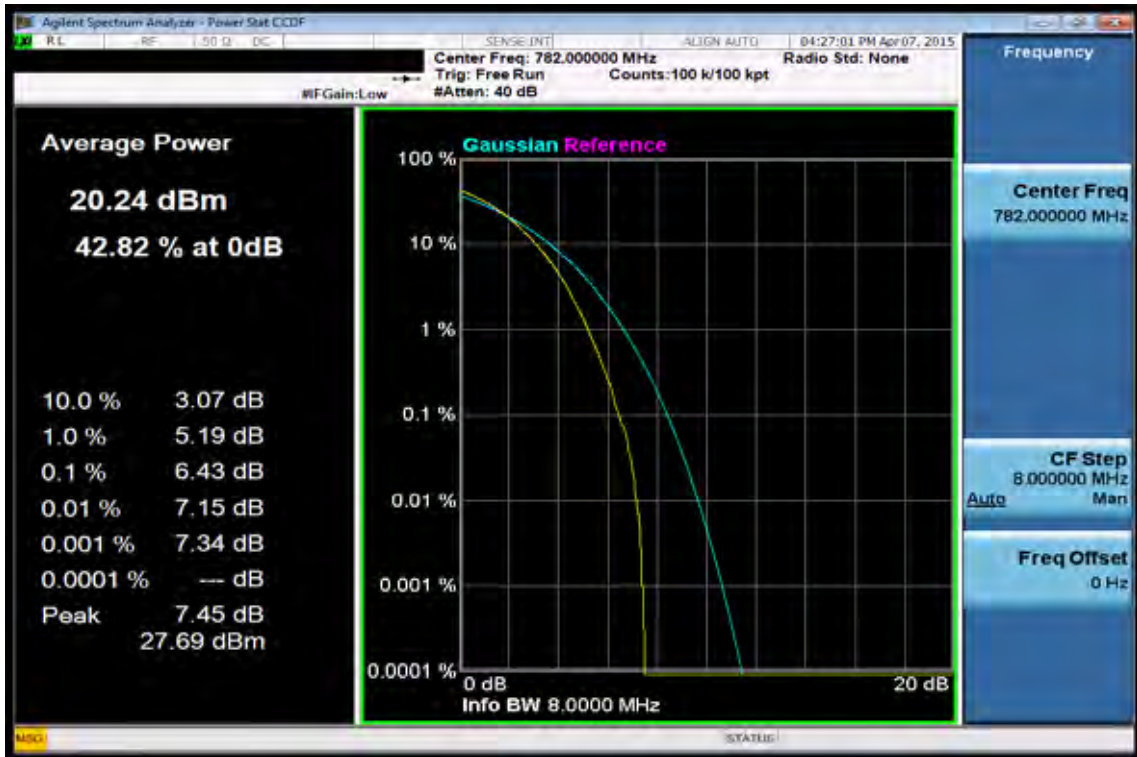
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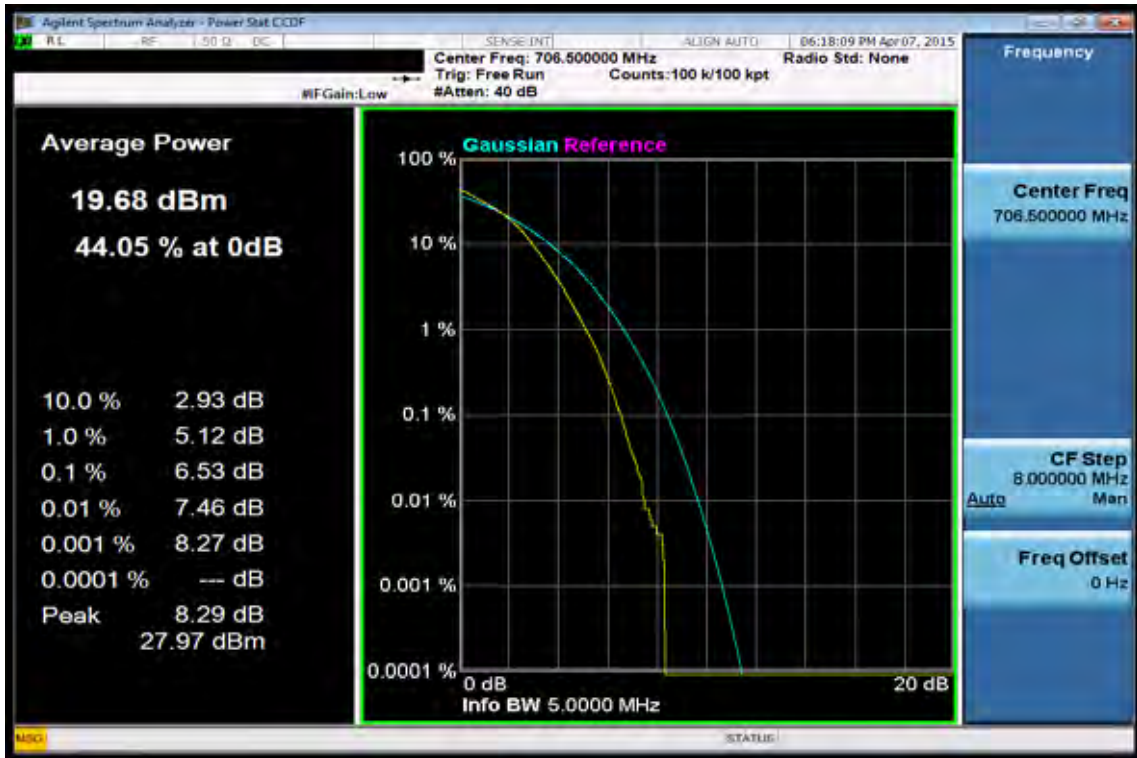
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**10MHz BW LTE-Band 13 16QAM Channel Mid**



**5MHz BW LTE-Band 17 16QAM Channel Low**



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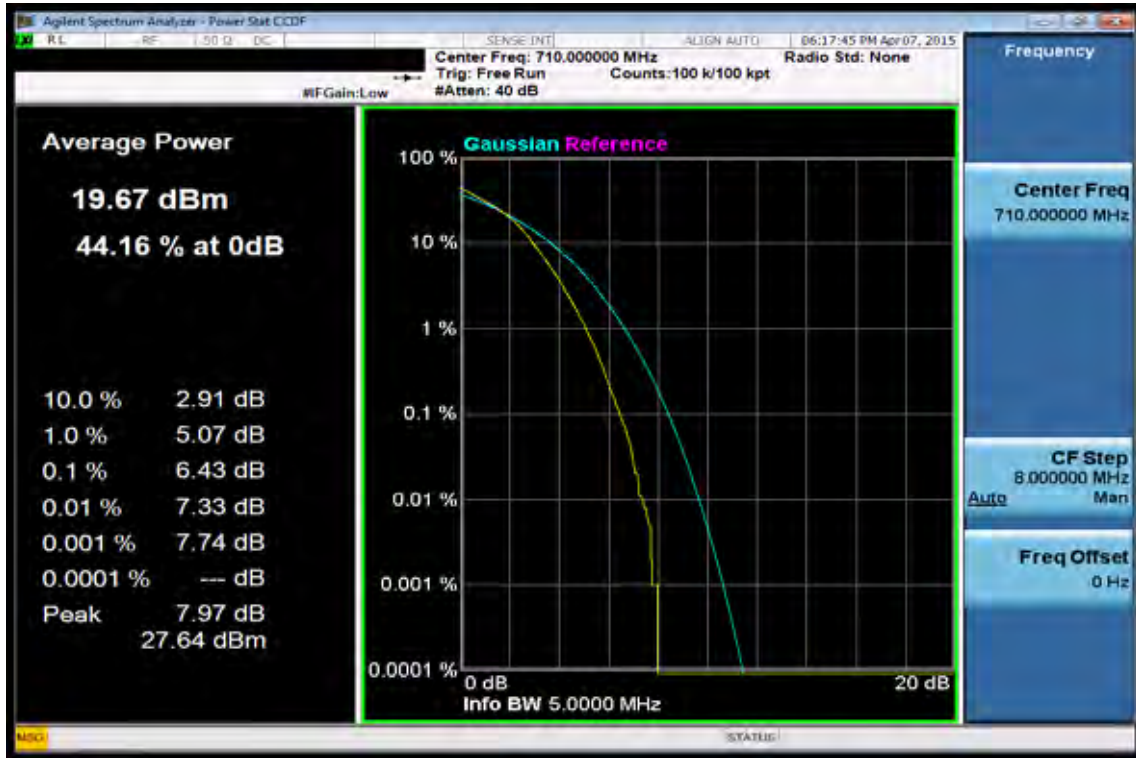
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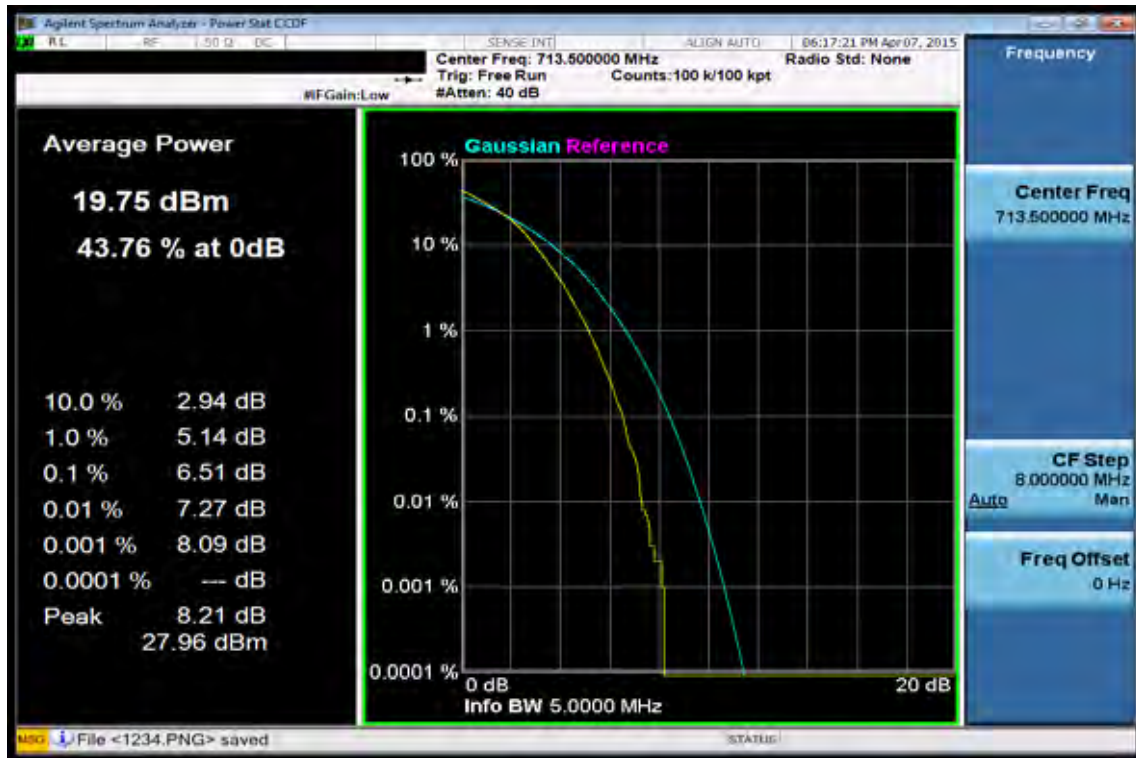
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**5MHz BW LTE-Band 17 16QAM Channel Mid**



**5MHz BW LTE-Band 17 16QAM Channel High**



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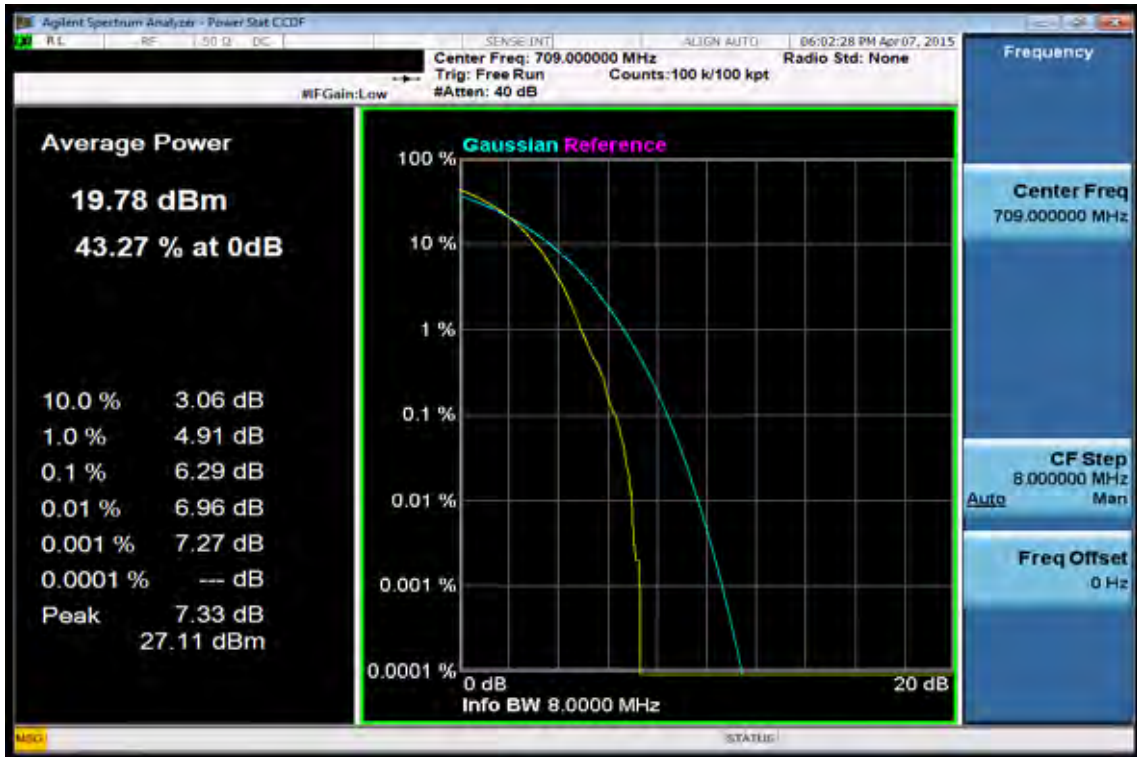
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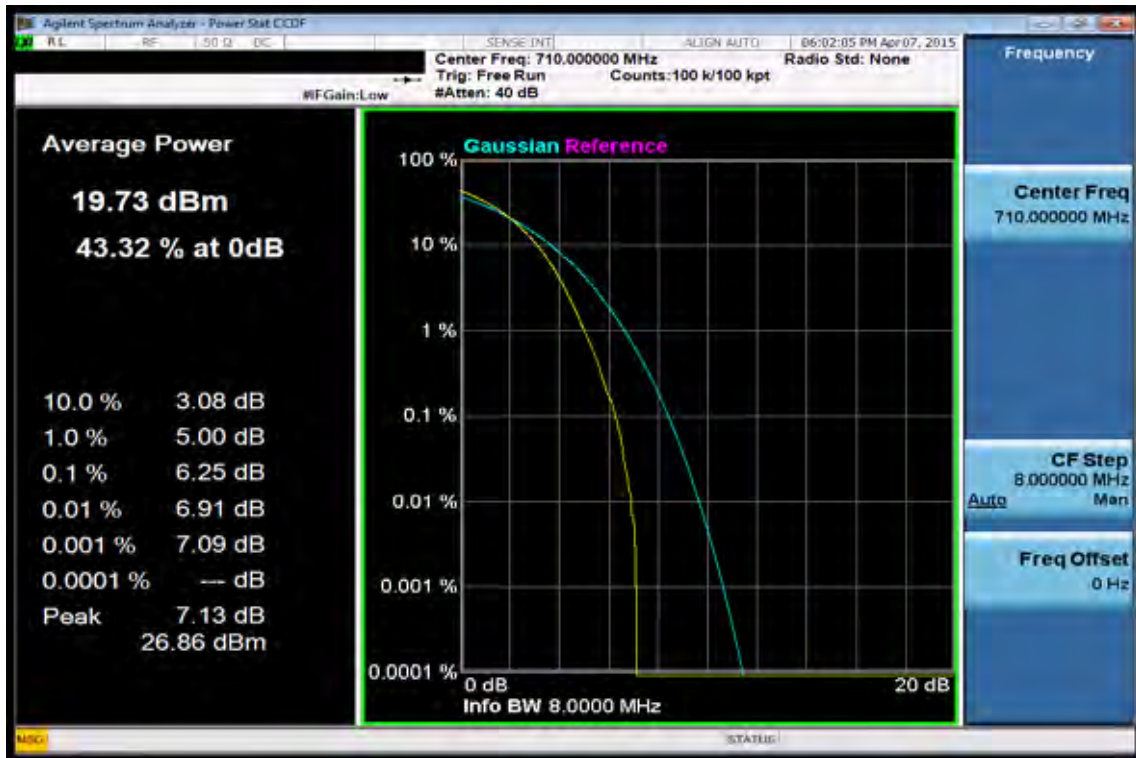
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10MHz BW LTE-Band 17 16QAM Channel Low



10MHz BW LTE-Band 17 16QAM Channel Mid



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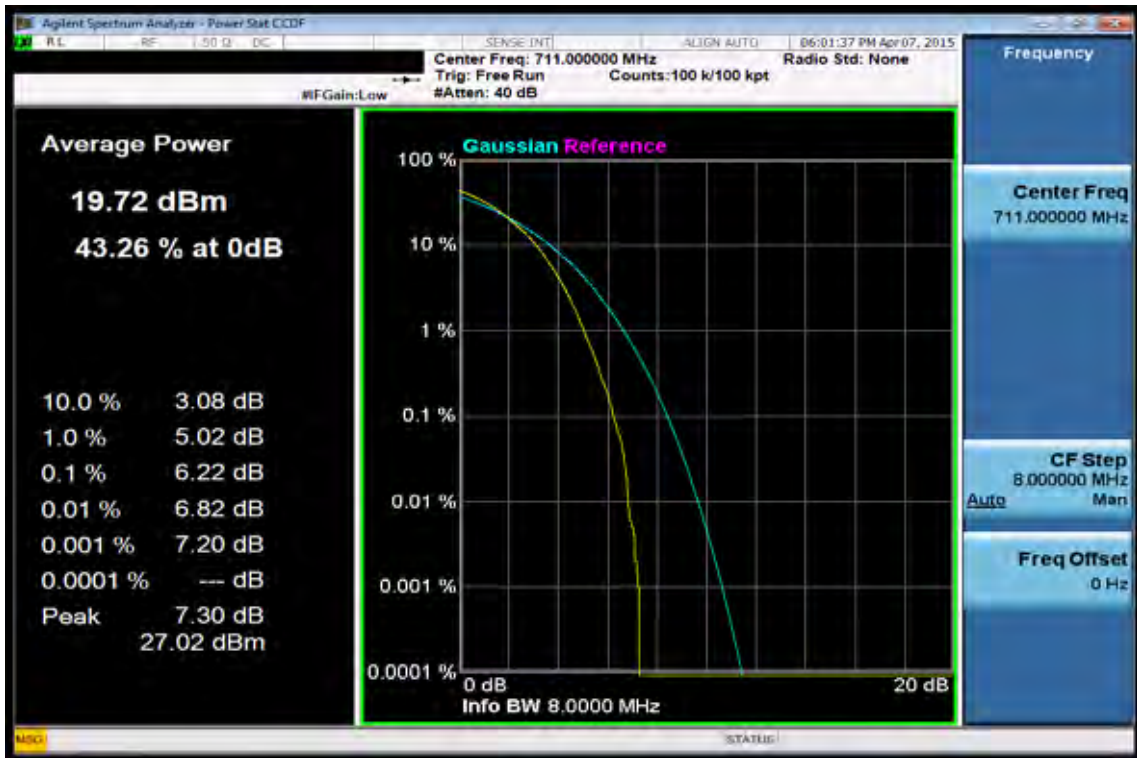
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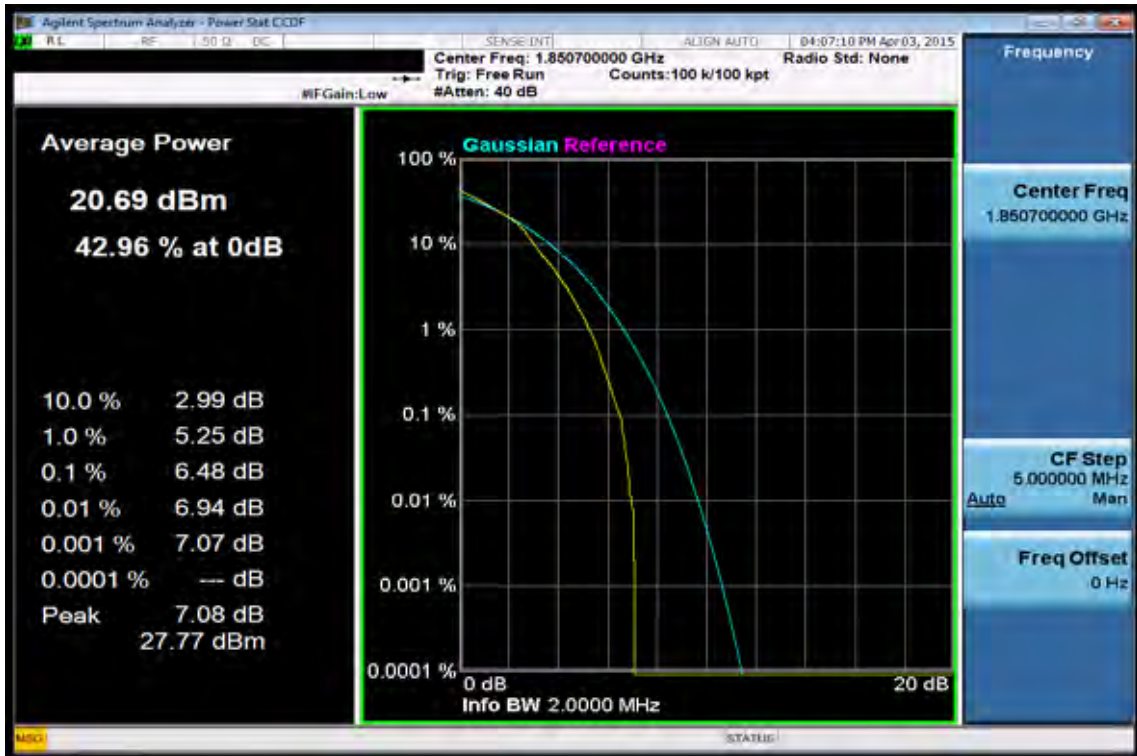
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**10MHz BW LTE-Band 17 16QAM Channel High**



**1.4MHz BW LTE-Band 25 16QAM Channel Low**



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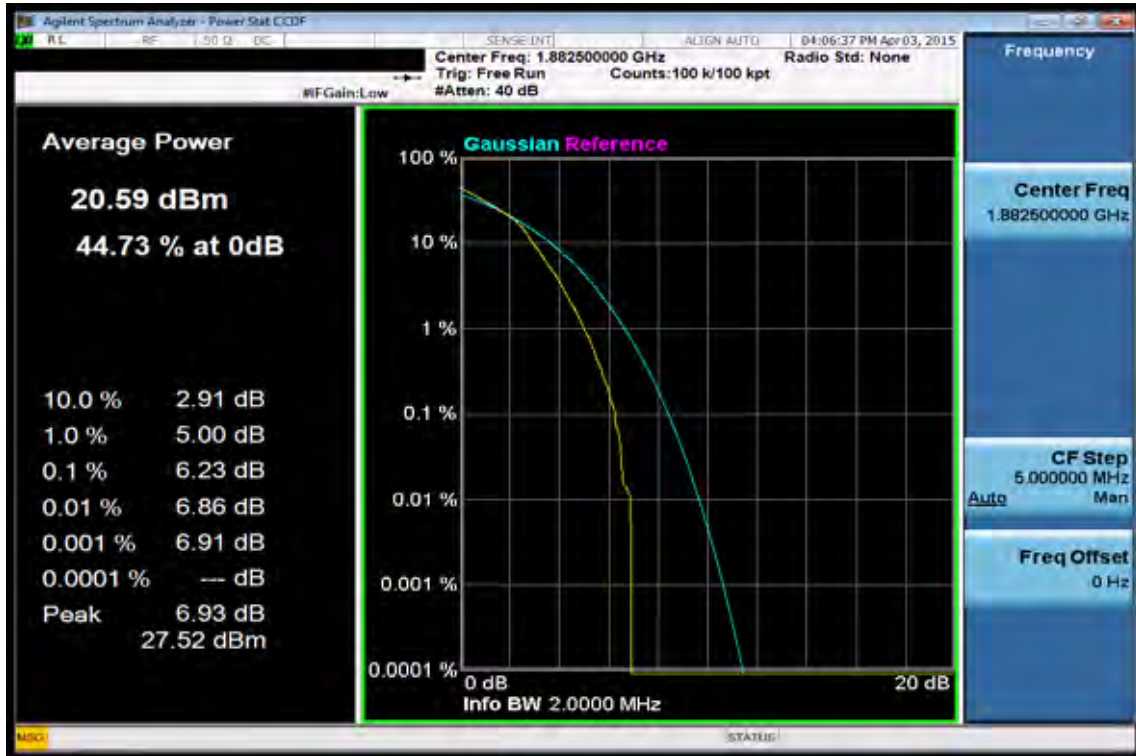
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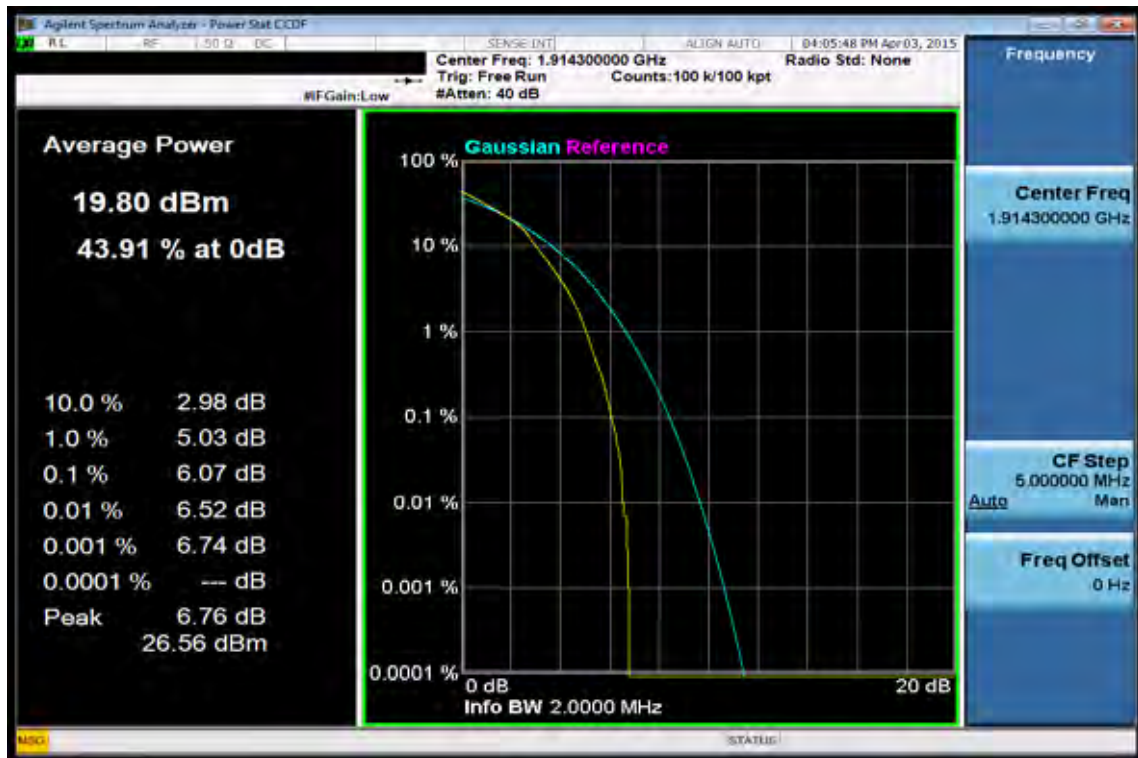
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1.4MHz BW LTE-Band 25 16QAM Channel Mid



1.4MHz BW LTE-Band 25 16QAM Channel High



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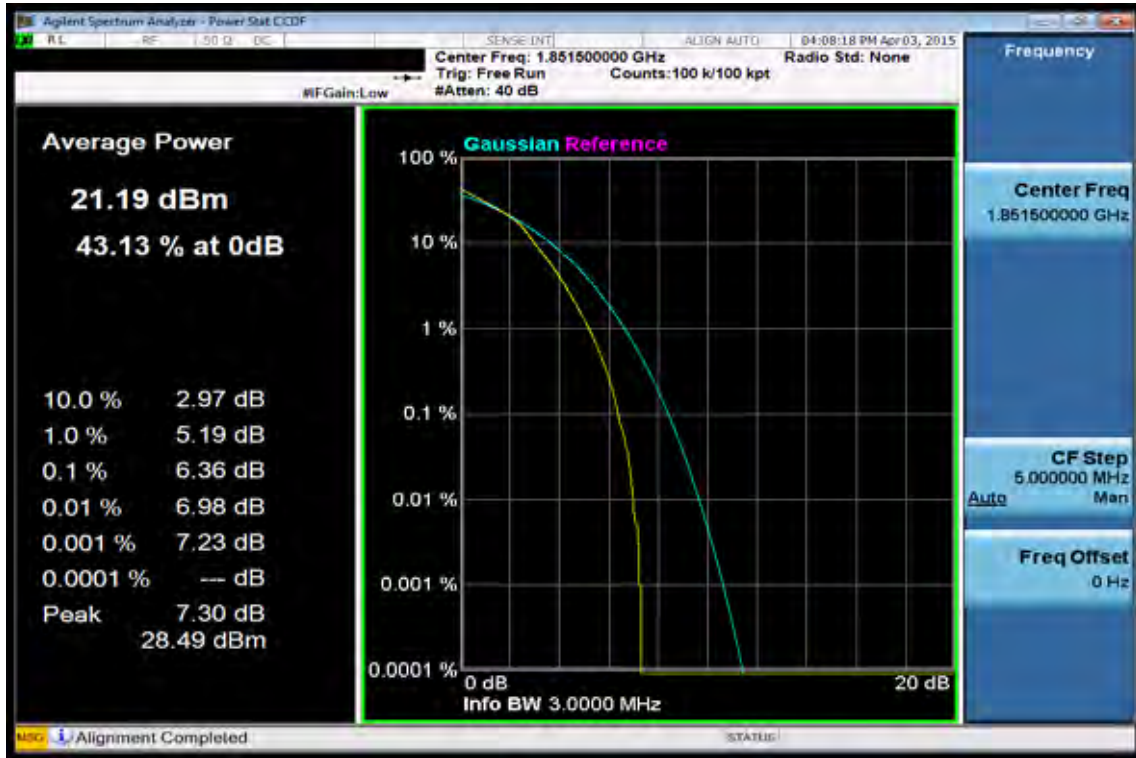
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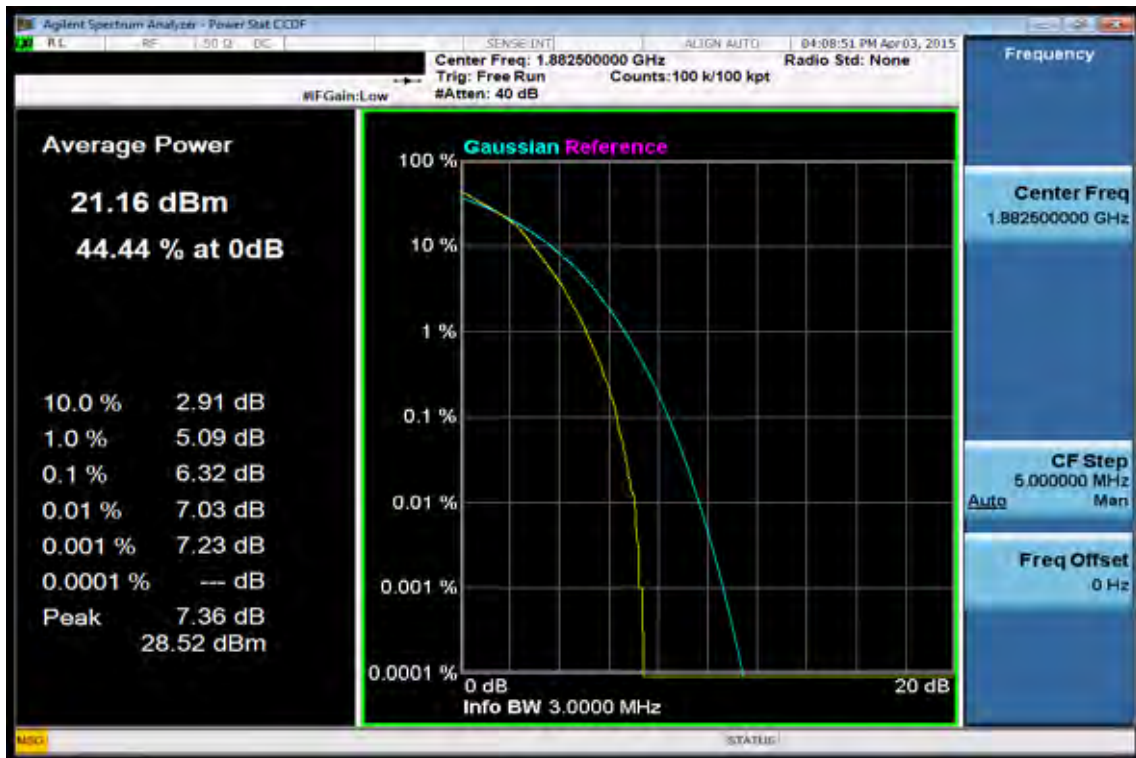
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3MHz BW LTE-Band 25 16QAM Channel Low



3MHz BW LTE-Band 25 16QAM Channel Mid



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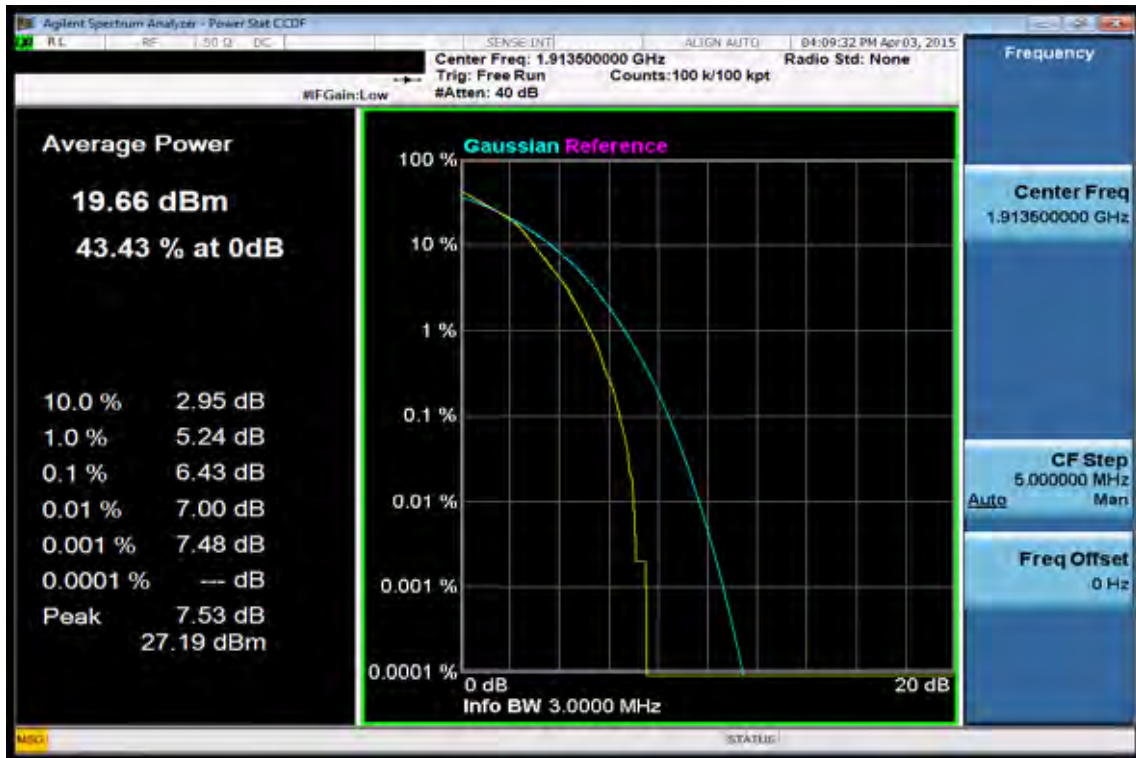
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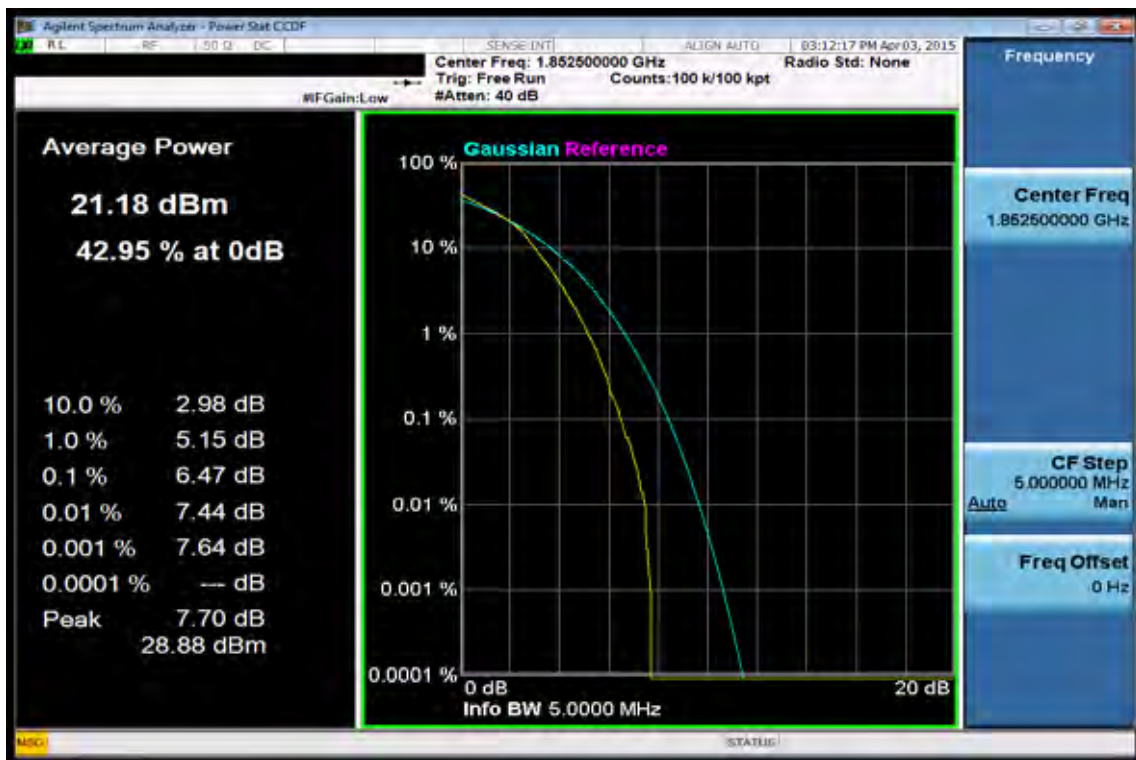
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**3MHz BW LTE-Band 25 16QAM Channel High**



**5MHz BW LTE-Band 25 16QAM Channel Low**



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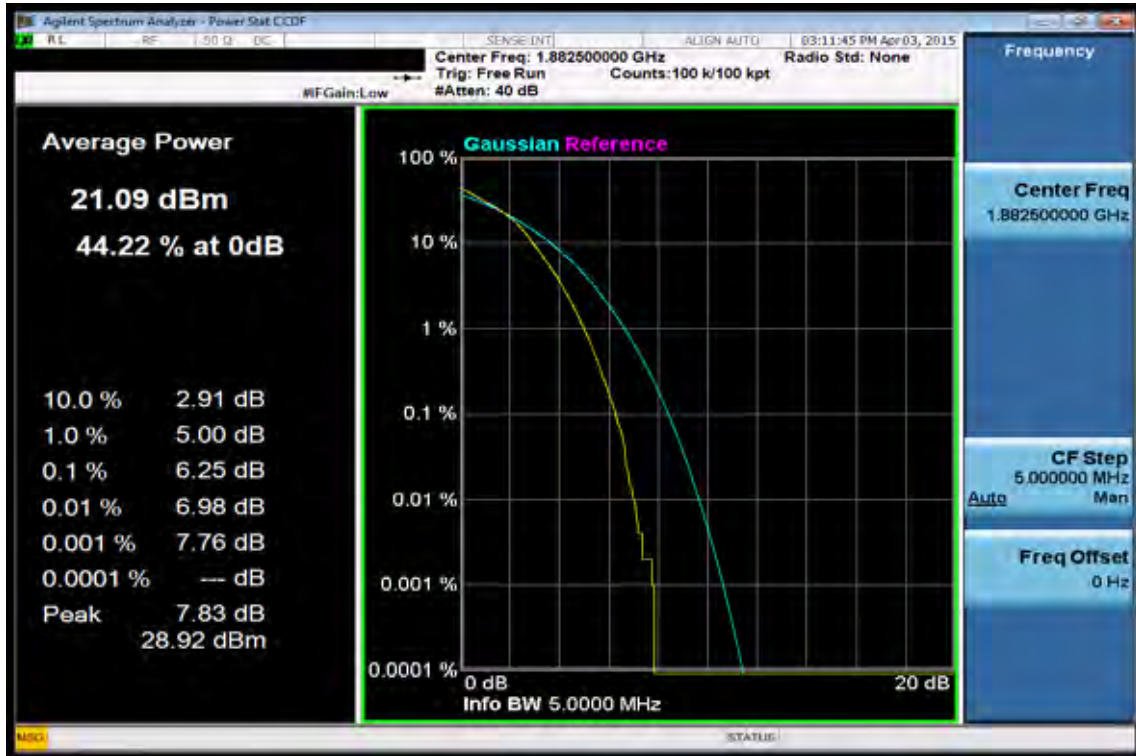
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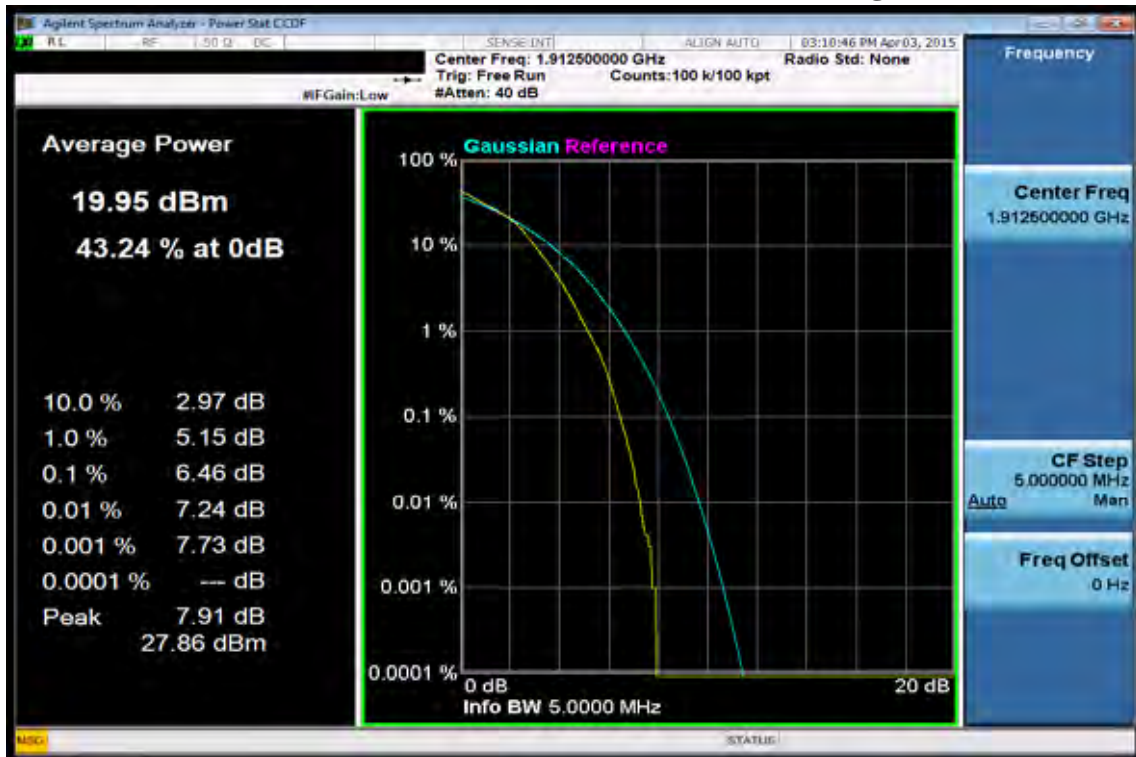
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5MHz BW LTE-Band 25 16QAM Channel Mid



5MHz BW LTE-Band 25 16QAM Channel High



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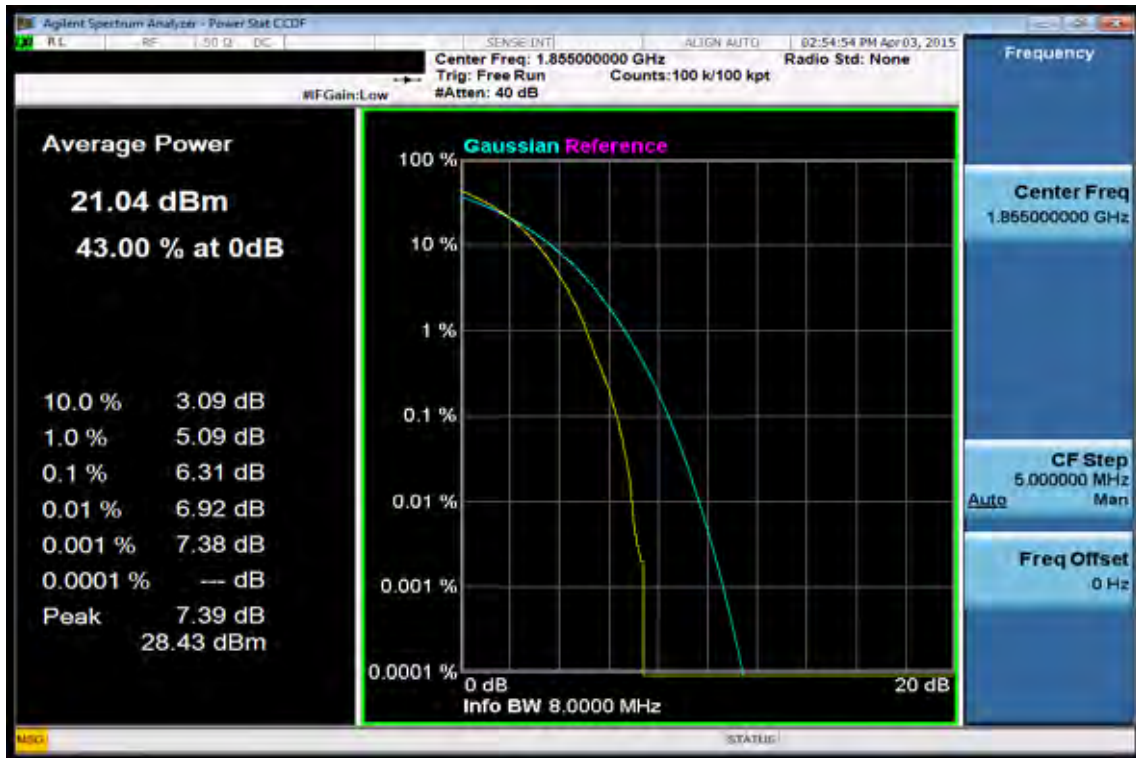
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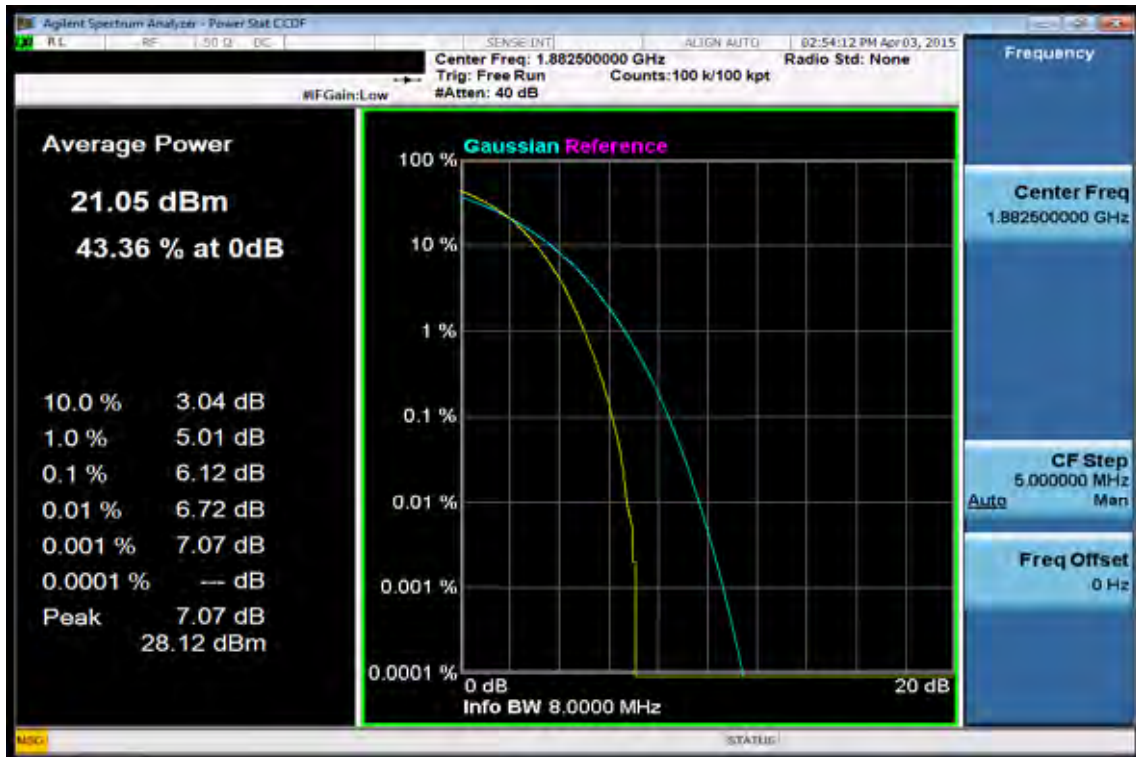
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10MHz BW LTE-Band 25 16QAM Channel Low



10MHz BW LTE-Band 25 16QAM Channel Mid



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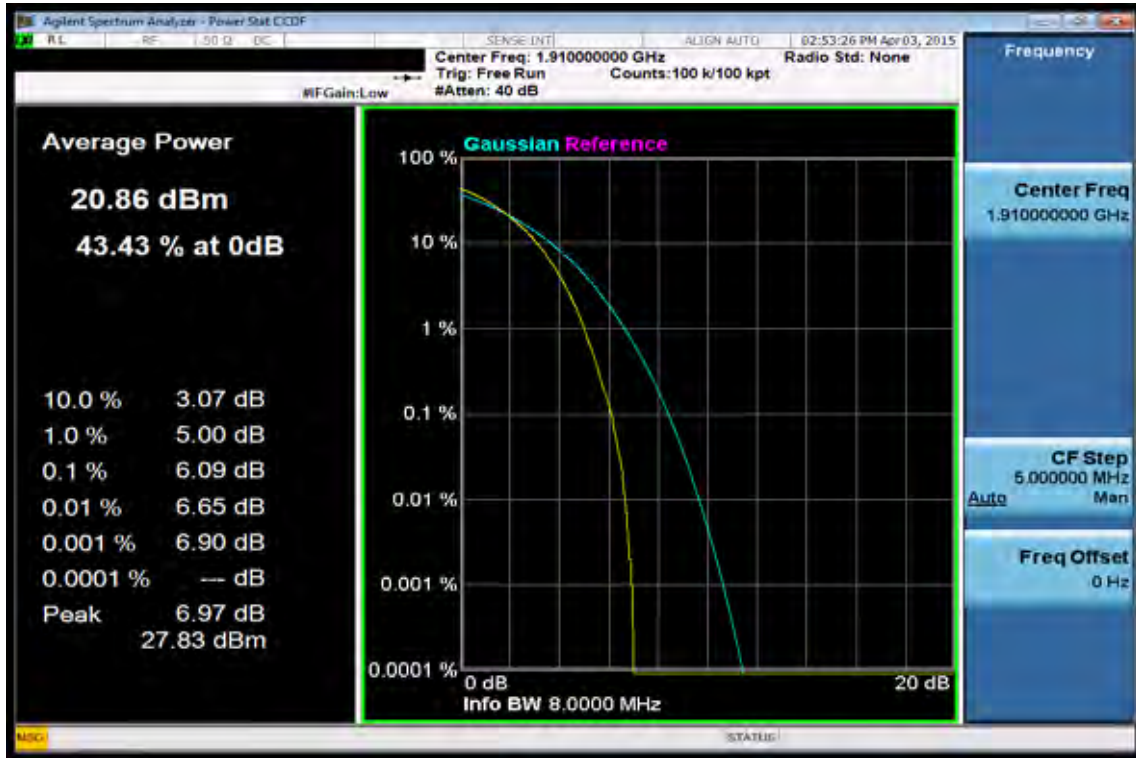
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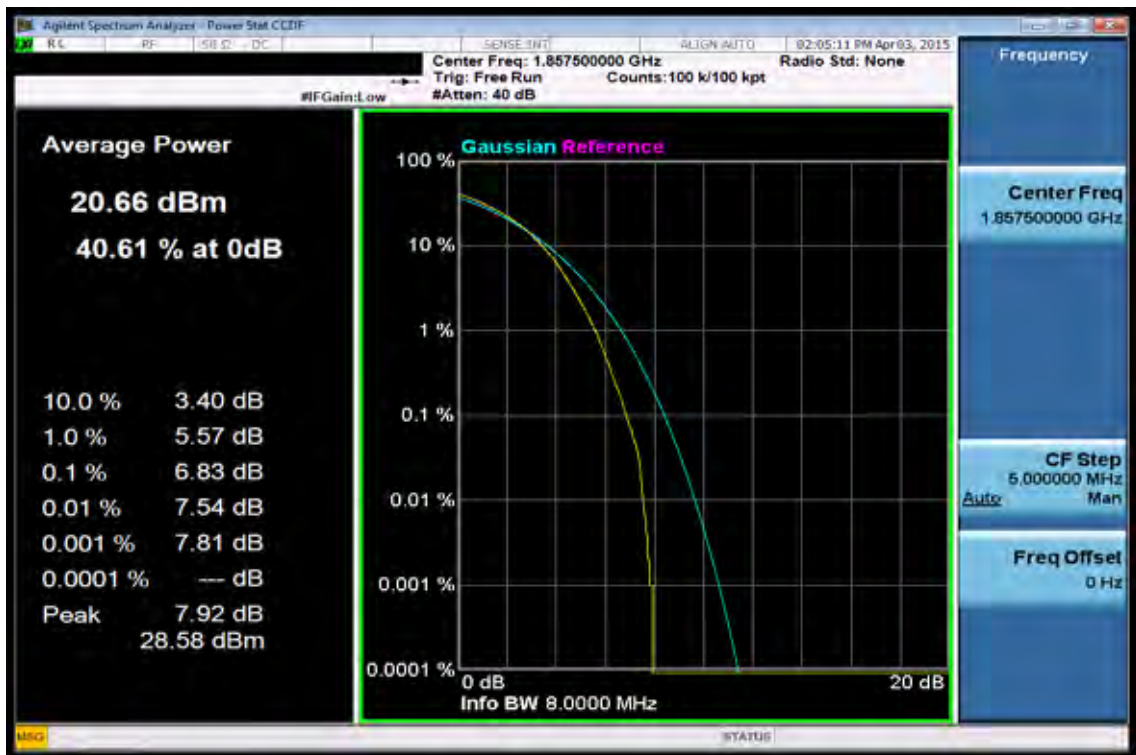
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10MHz BW LTE-Band 25 16QAM Channel High



15MHz BW LTE-Band 25 16QAM Channel Low



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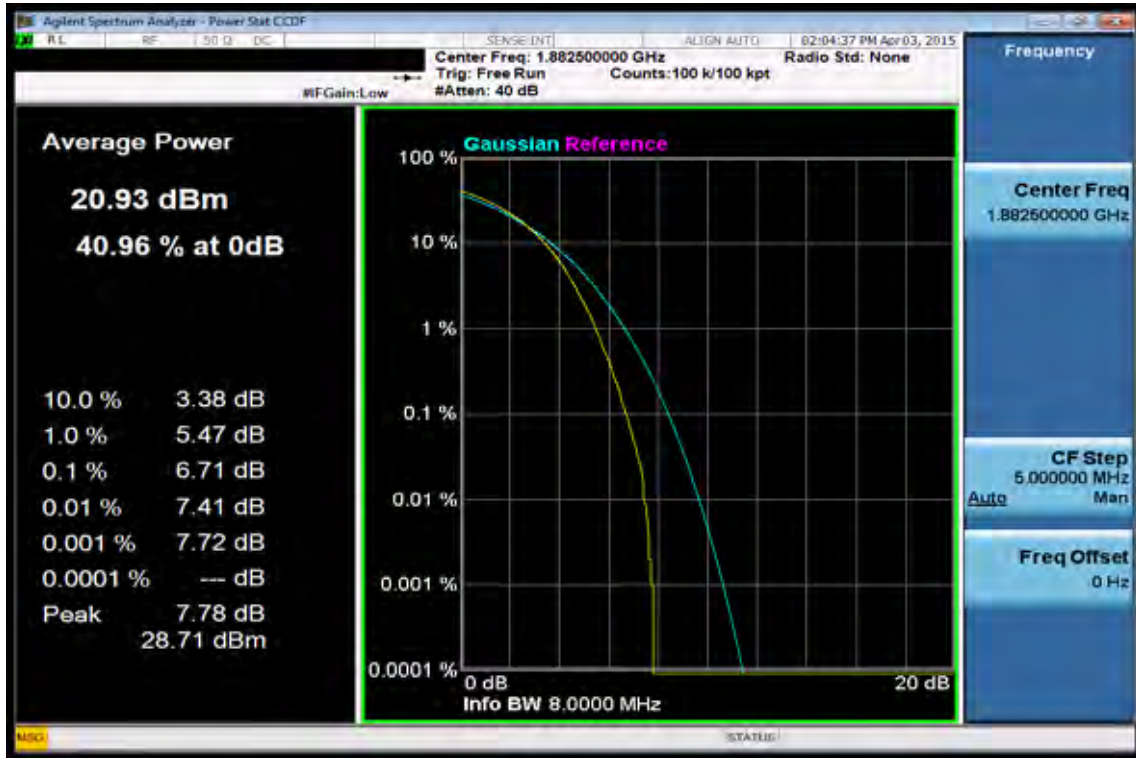
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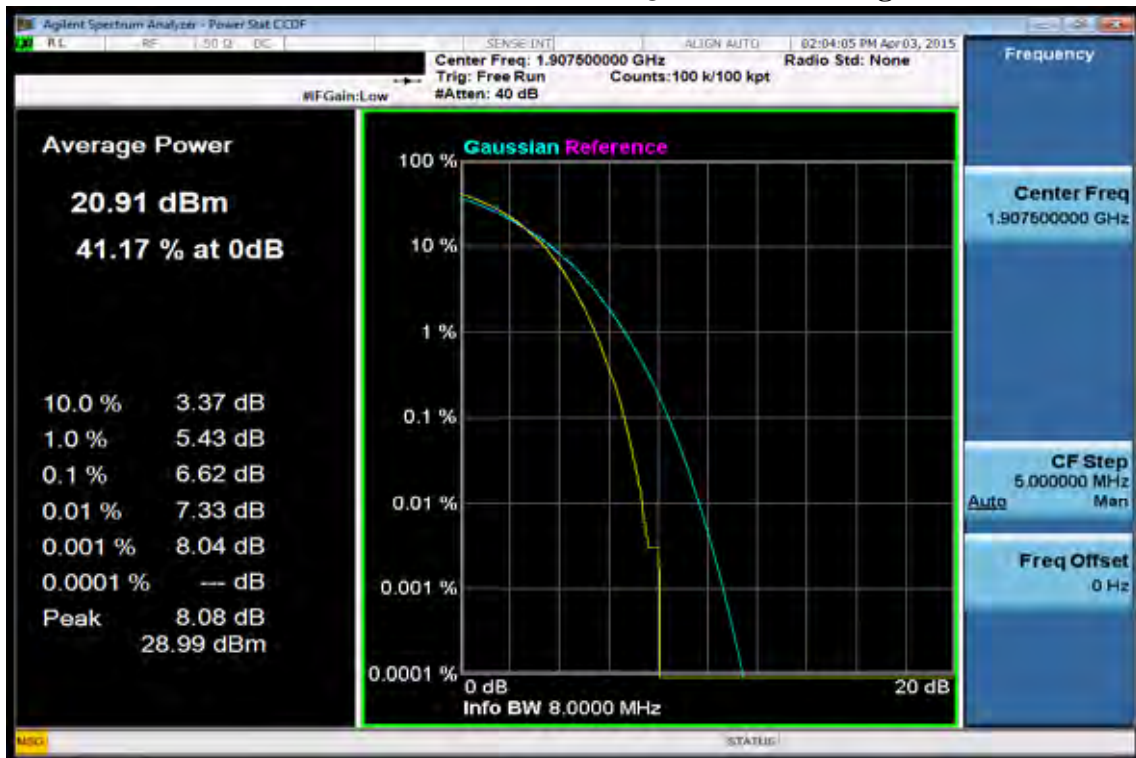
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15MHz BW LTE-Band 25 16QAM Channel Mid



15MHz BW LTE-Band 25 16QAM Channel High



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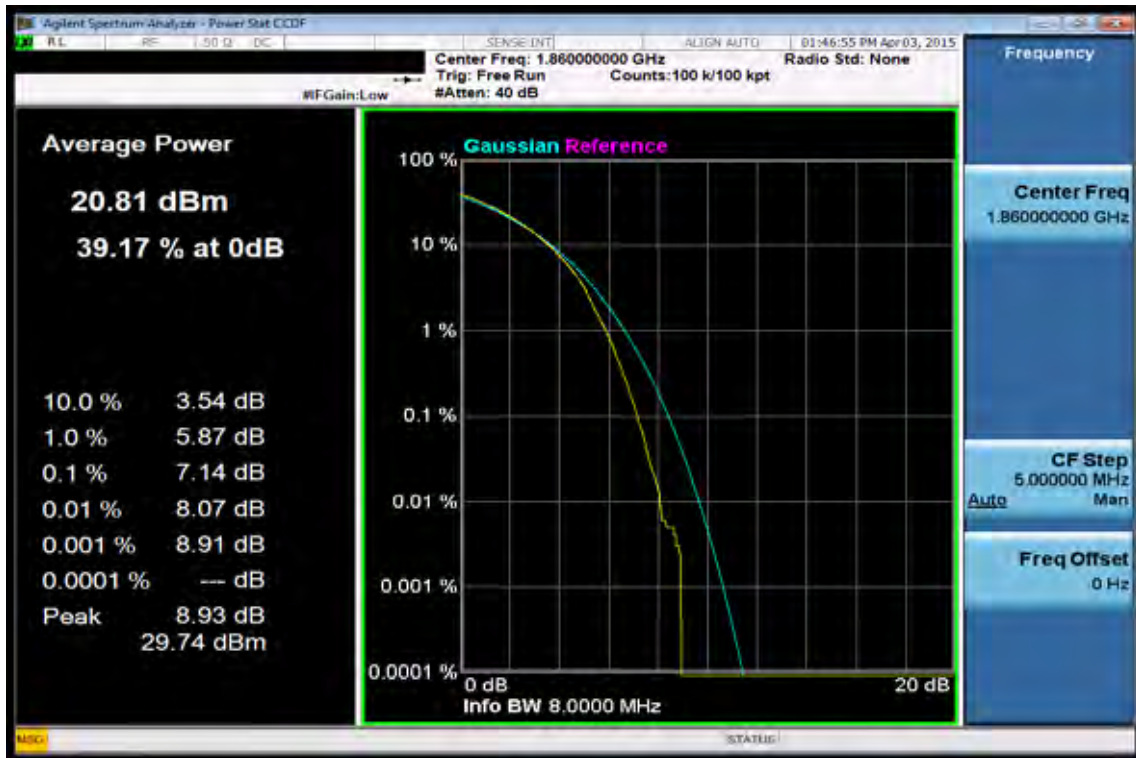
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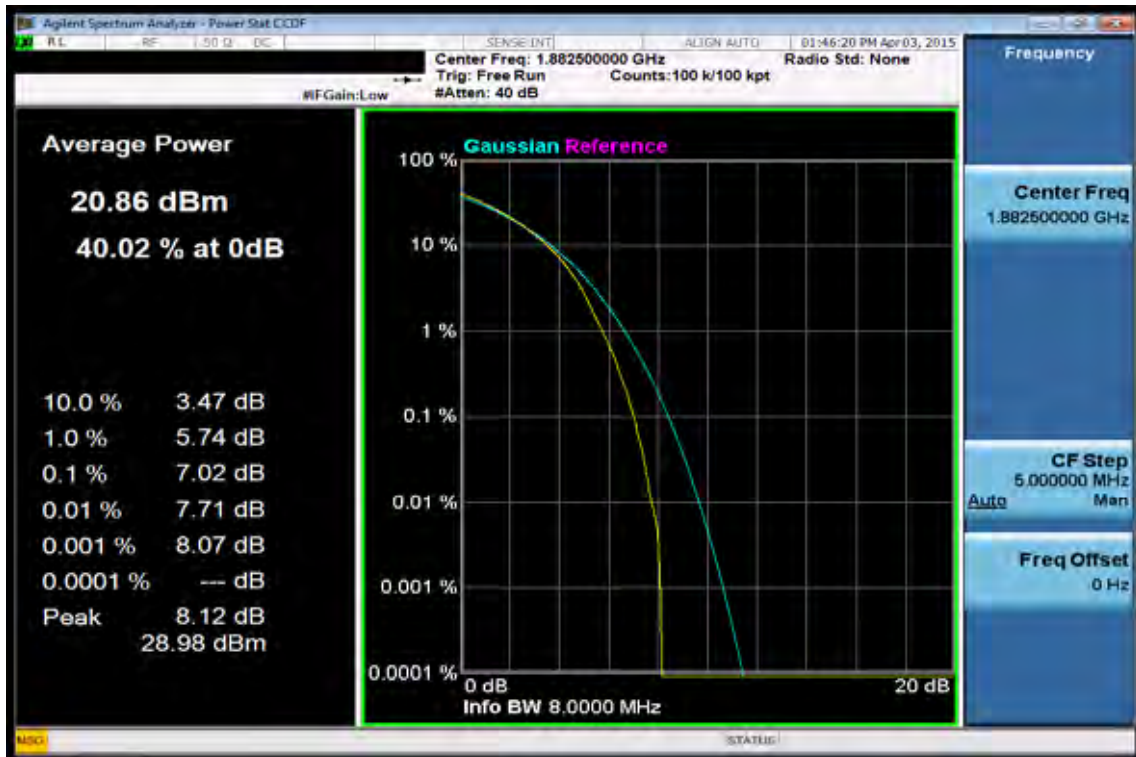
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20MHz BW LTE-Band 25 16QAM Channel Low



20MHz BW LTE-Band 25 16QAM Channel Mid



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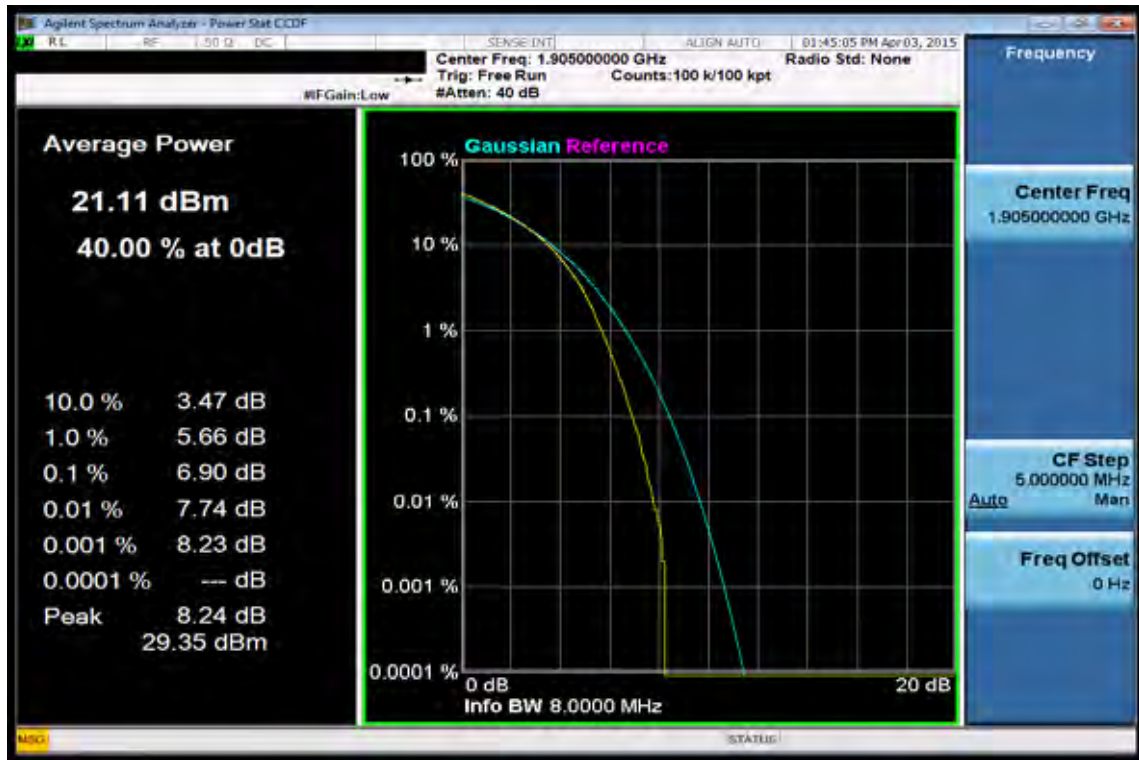
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20MHz BW LTE-Band 25 16QAM Channel High



~ End of Report ~

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