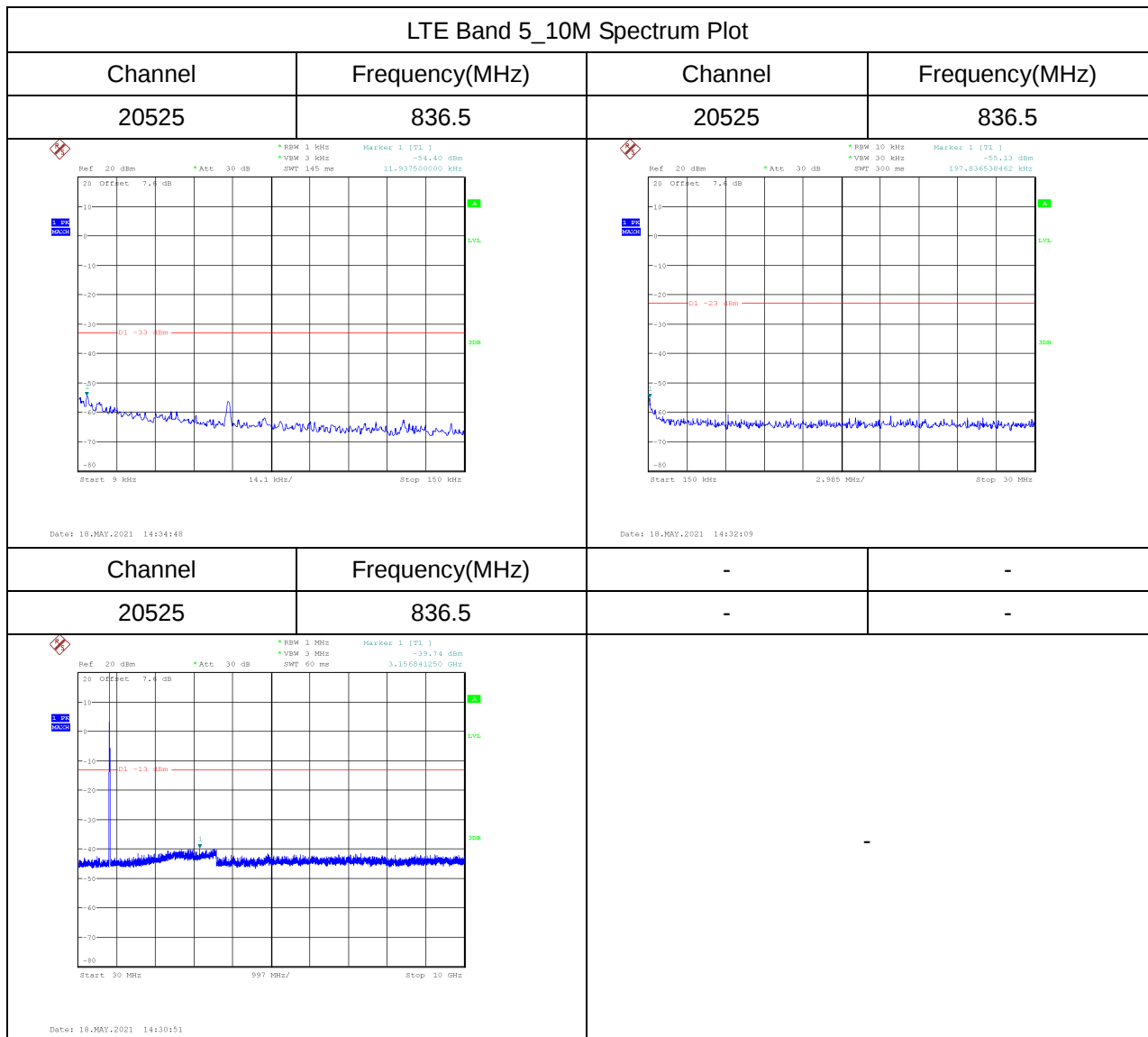
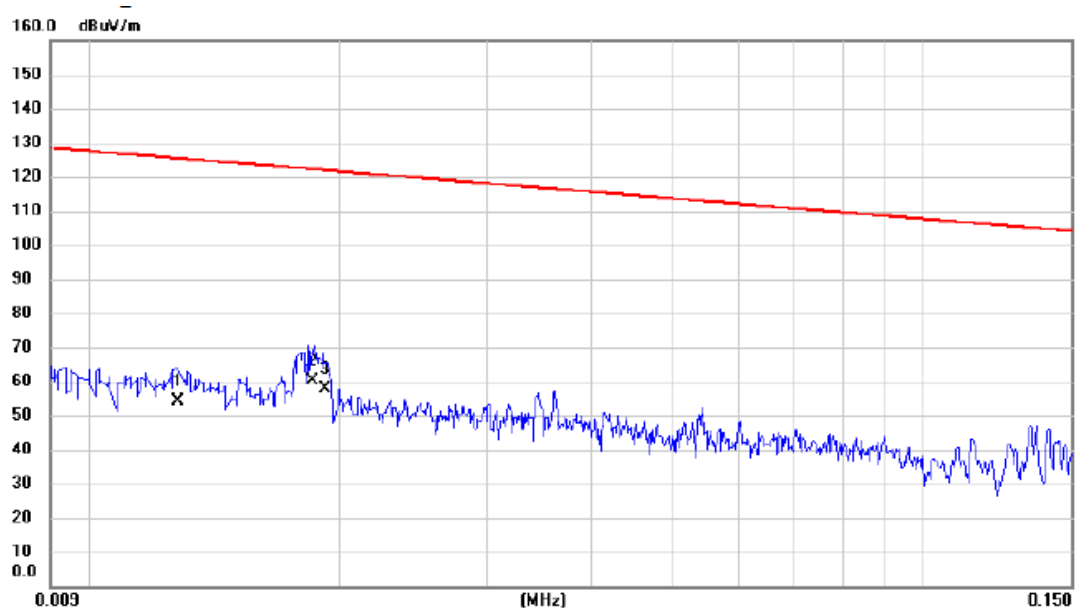




APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

Test Mode	TX Mode
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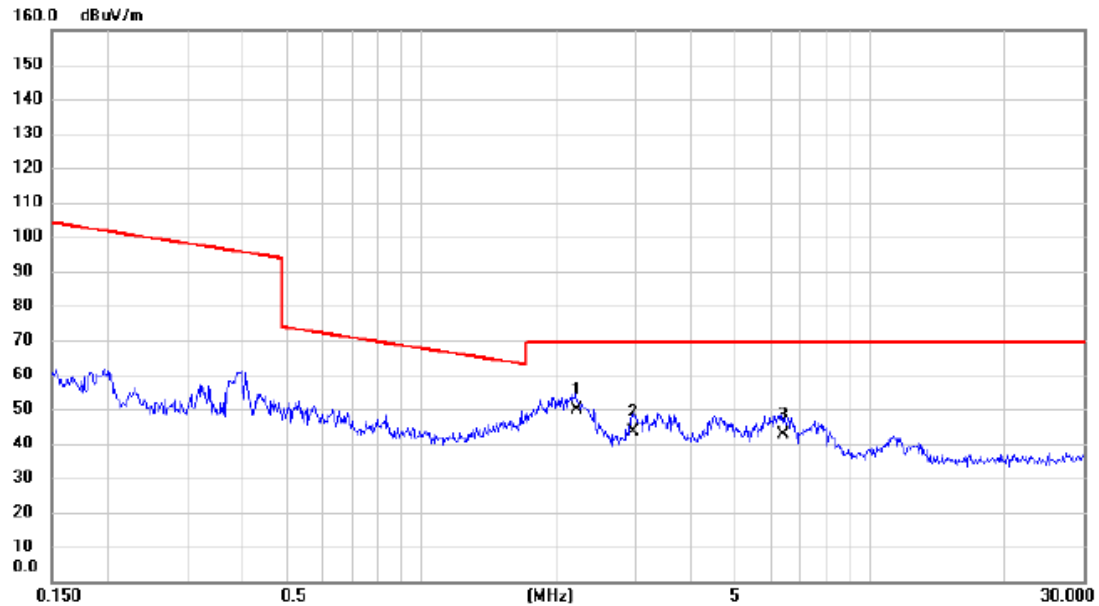
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0128	37.60	16.67	54.27	125.46	-71.19	AVG		
2	*	0.0185	45.50	14.88	60.38	122.26	-61.88	AVG		
3		0.0192	43.20	14.66	57.86	121.94	-64.08	AVG		

Test Mode	TX Mode
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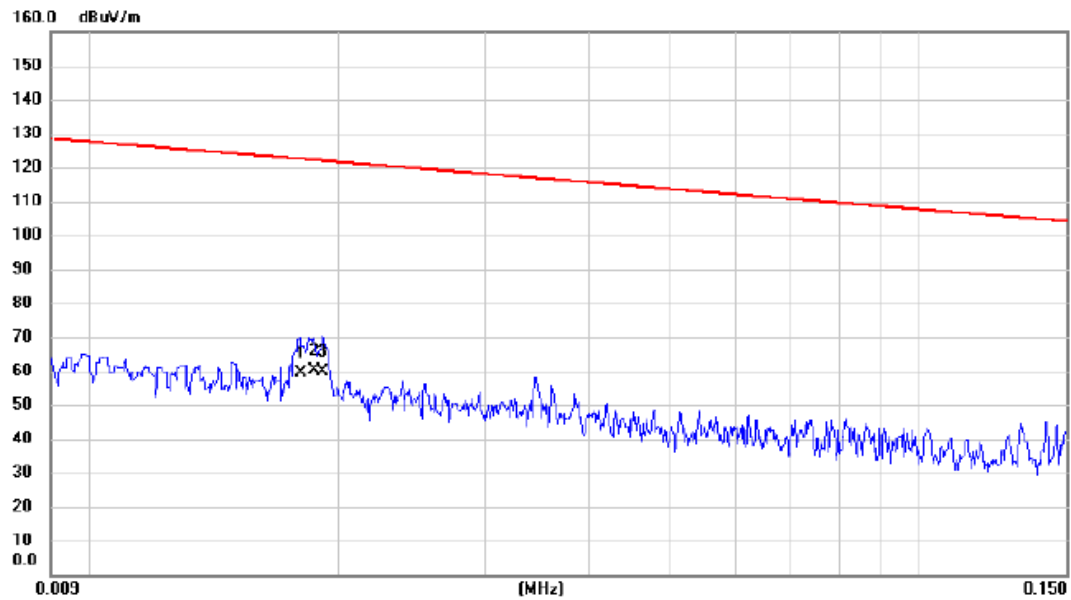
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2.2132	37.50	12.18	49.68	69.54	-19.86	QP		
2		2.9776	31.50	11.96	43.46	69.54	-26.08	QP		
3		6.3860	30.60	12.13	42.73	69.54	-26.81	QP		

Test Mode	TX Mode
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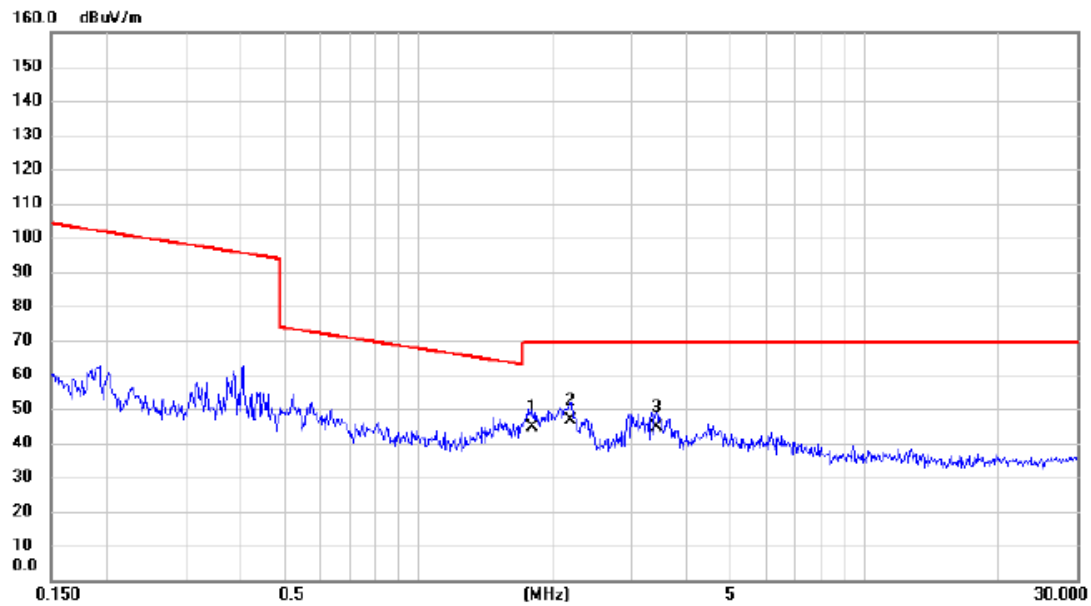
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0180	44.33	15.04	59.37	122.50	-63.13	AVG		
2	*	0.0187	45.20	14.82	60.02	122.17	-62.15	AVG		
3		0.0191	45.10	14.69	59.79	121.98	-62.19	AVG		

Test Mode	TX Mode
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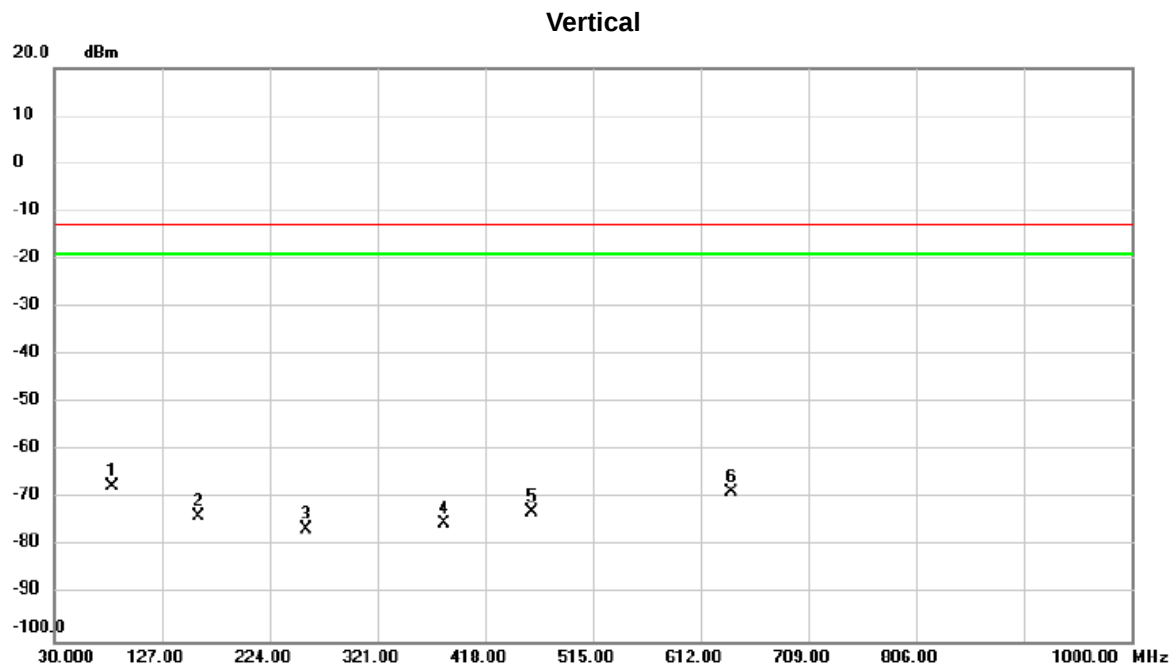
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		1.8000	32.20	12.39	44.59	69.54	-24.95	QP			
2	*	2.1898	34.40	12.19	46.59	69.54	-22.95	QP			
3		3.4174	32.60	11.99	44.59	69.54	-24.95	QP			

APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

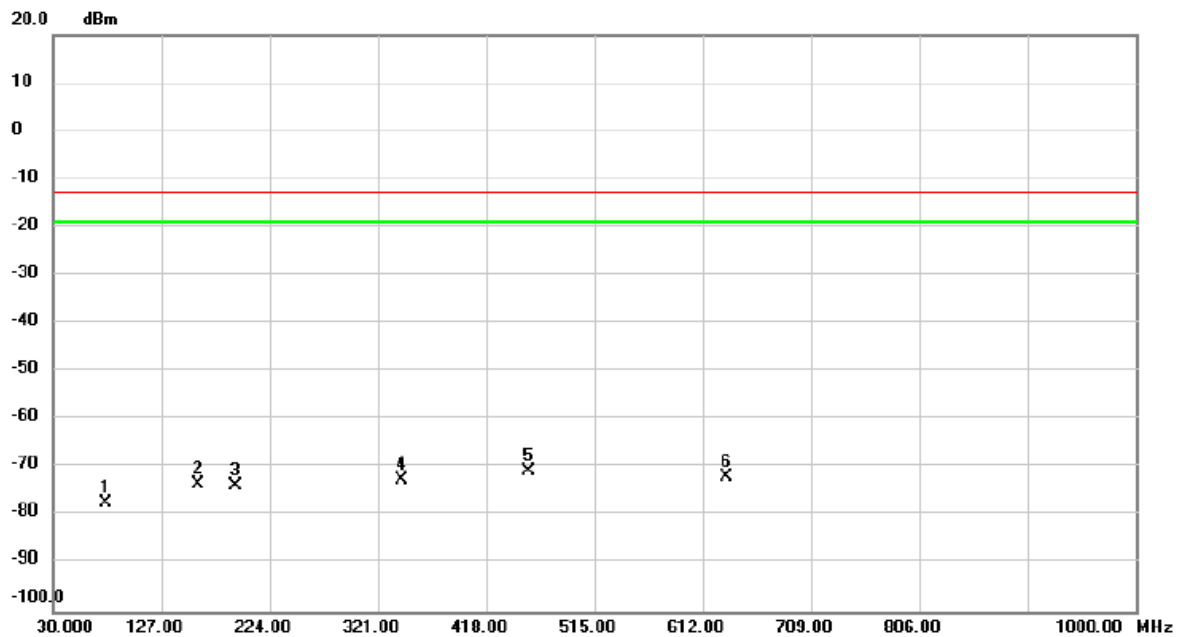
Test Mode	GSM850_TX CH190_GSM
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	82.865	-50.39	-17.16	-67.55	-13.00	-54.55	peak	
2		159.980	-63.18	-10.67	-73.85	-13.00	-60.85	peak	
3		256.495	-63.77	-12.60	-76.37	-13.00	-63.37	peak	
4		381.140	-65.86	-9.45	-75.31	-13.00	-62.31	peak	
5		460.195	-65.33	-7.56	-72.89	-13.00	-59.89	peak	
6		640.130	-64.03	-4.49	-68.52	-13.00	-55.52	peak	

Test Mode	GSM850_ TX CH190_GSM
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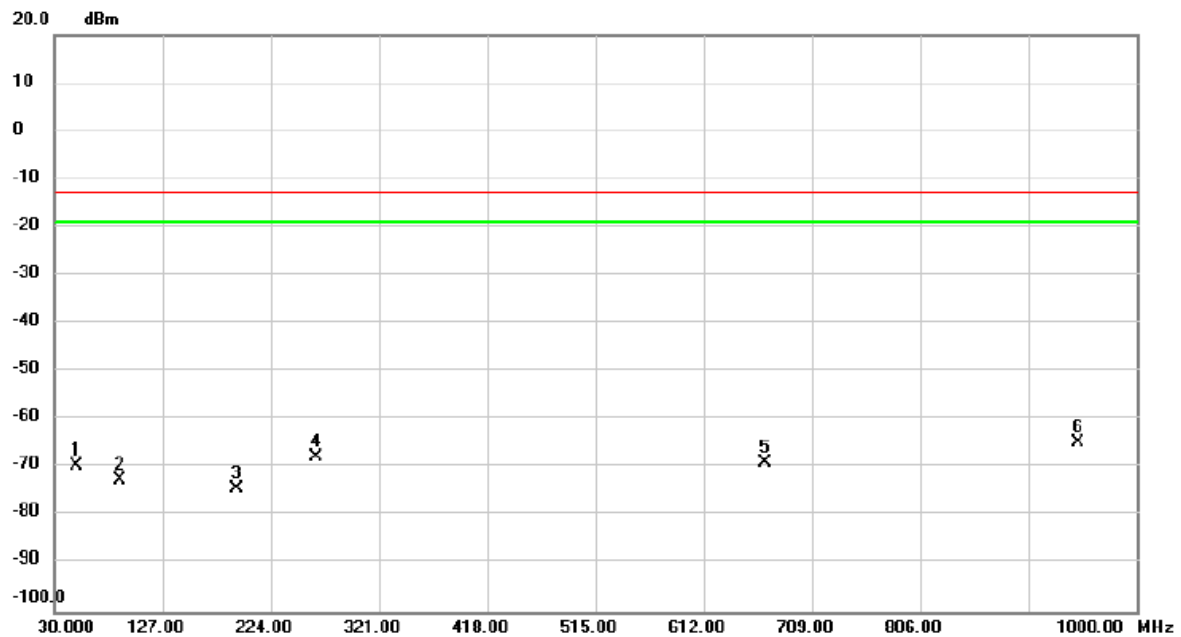
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		77.530	-60.16	-17.29	-77.45	-13.00	-64.45	peak	
2		159.980	-62.70	-10.67	-73.37	-13.00	-60.37	peak	
3		192.960	-59.40	-14.31	-73.71	-13.00	-60.71	peak	
4		341.855	-62.20	-10.33	-72.53	-13.00	-59.53	peak	
5	*	455.830	-63.14	-7.59	-70.73	-13.00	-57.73	peak	
6		633.340	-67.44	-4.63	-72.07	-13.00	-59.07	peak	

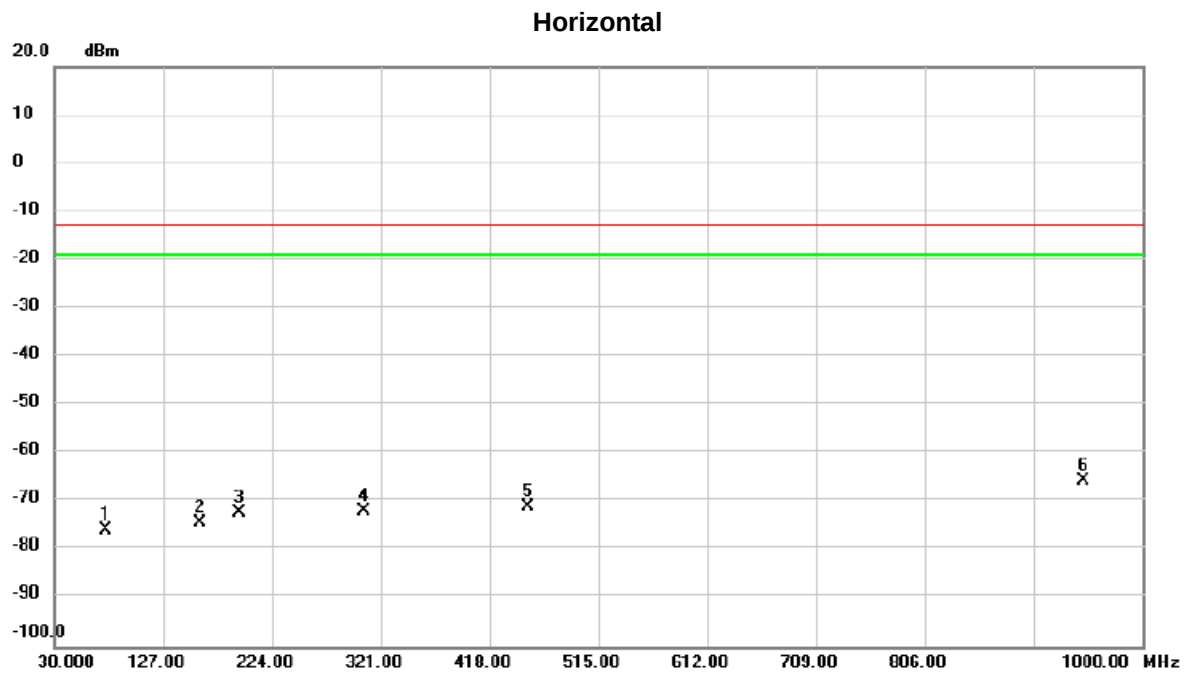
Test Mode	WCDMA Band V_TX CH4182
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Vertical



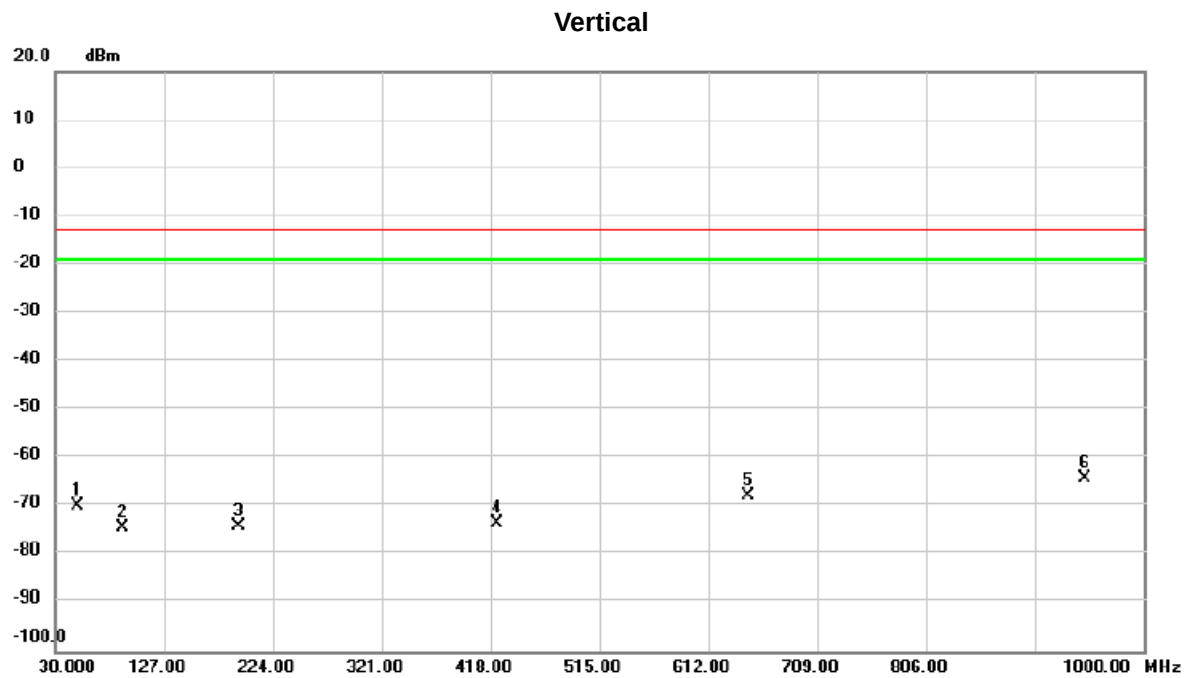
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		50.370	-56.13	-13.56	-69.69	-13.00	-56.69	peak	
2		88.685	-56.61	-15.99	-72.60	-13.00	-59.60	peak	
3		192.960	-60.04	-14.31	-74.35	-13.00	-61.35	peak	
4		265.225	-55.19	-12.44	-67.63	-13.00	-54.63	peak	
5		666.805	-64.88	-4.03	-68.91	-13.00	-55.91	peak	
6	*	948.105	-64.75	0.08	-64.67	-13.00	-51.67	peak	

Test Mode	WCDMA Band V_TX CH4182
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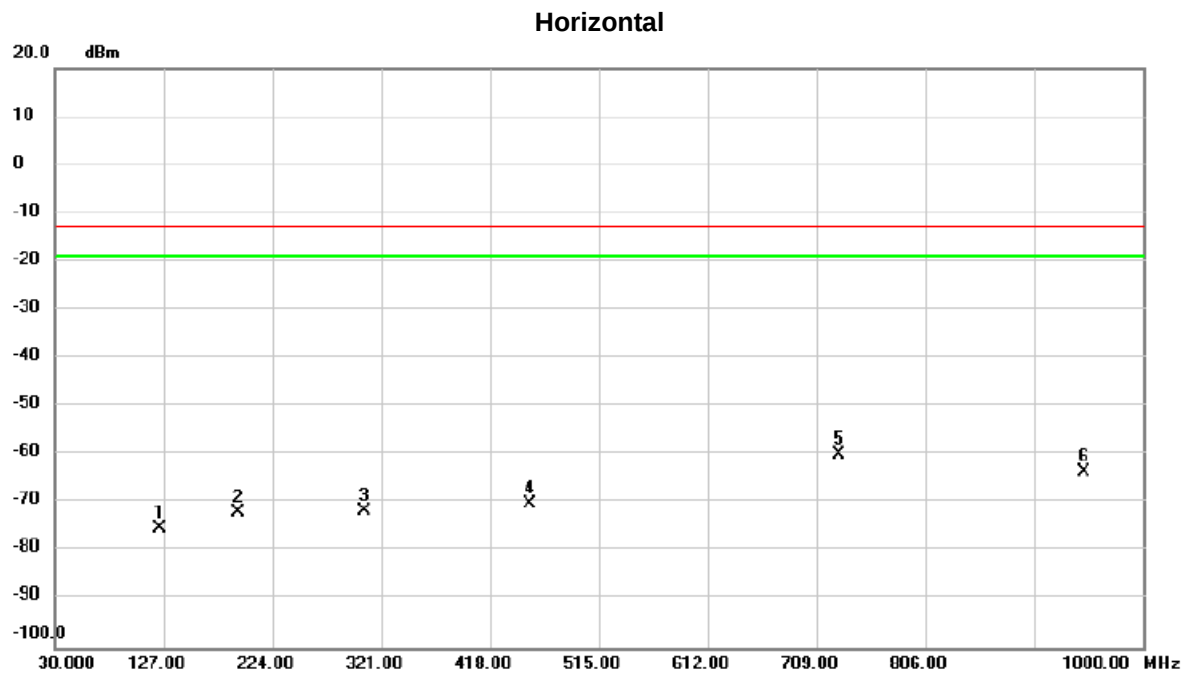
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		75.590	-59.00	-16.96	-75.96	-13.00	-62.96	peak	
2		159.980	-63.73	-10.67	-74.40	-13.00	-61.40	peak	
3		195.385	-57.89	-14.48	-72.37	-13.00	-59.37	peak	
4		305.480	-61.02	-10.92	-71.94	-13.00	-58.94	peak	
5		451.950	-63.50	-7.61	-71.11	-13.00	-58.11	peak	
6 *		948.105	-65.72	0.08	-65.64	-13.00	-52.64	peak	

Test Mode	LTE Band 5_TX CH20525_1.4M
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No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		50.370	-56.33	-13.56	-69.89	-13.00	-56.89	peak	
2		90.625	-58.55	-15.67	-74.22	-13.00	-61.22	peak	
3		192.960	-59.74	-14.31	-74.05	-13.00	-61.05	peak	
4		423.335	-64.95	-8.37	-73.32	-13.00	-60.32	peak	
5		647.405	-63.33	-4.33	-67.66	-13.00	-54.66	peak	
6	*	948.105	-64.08	0.08	-64.00	-13.00	-51.00	peak	

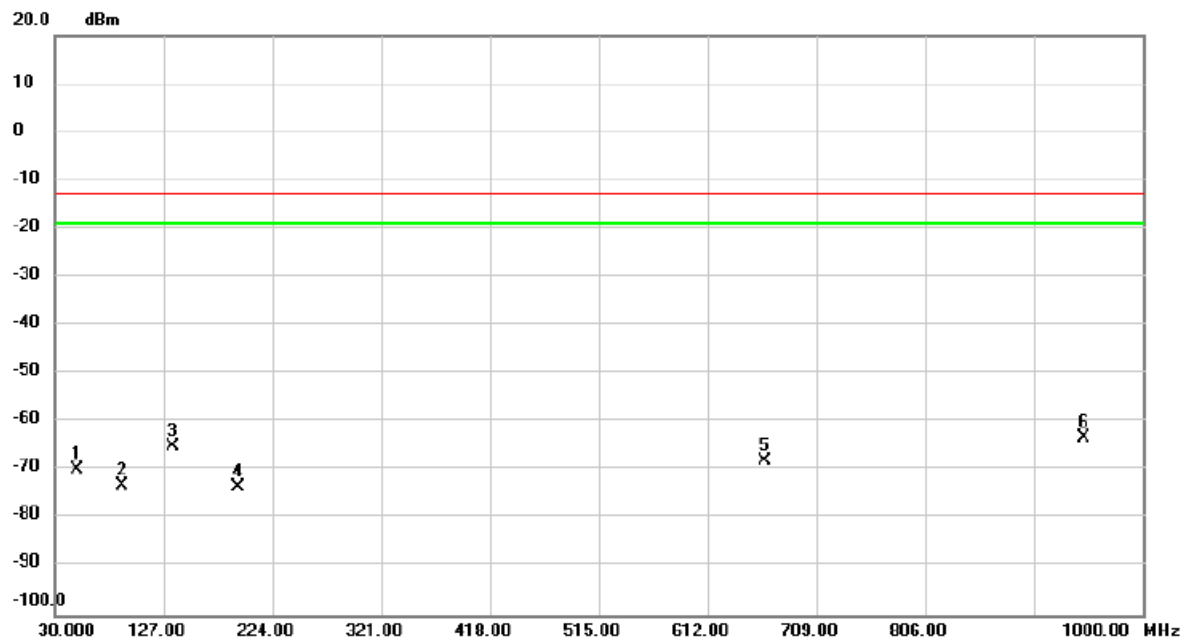
Test Mode	LTE Band 5_TX CH20525_1.4M
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No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		123.605	-62.62	-12.75	-75.37	-13.00	-62.37	peak	
2		193.930	-57.68	-14.37	-72.05	-13.00	-59.05	peak	
3		305.480	-60.58	-10.92	-71.50	-13.00	-58.50	peak	
4		453.890	-62.50	-7.60	-70.10	-13.00	-57.10	peak	
5 *		728.400	-56.49	-3.37	-59.86	-13.00	-46.86	peak	
6		948.105	-63.73	0.08	-63.65	-13.00	-50.65	peak	

Test Mode LTE Band 5_TX CH20525_5M

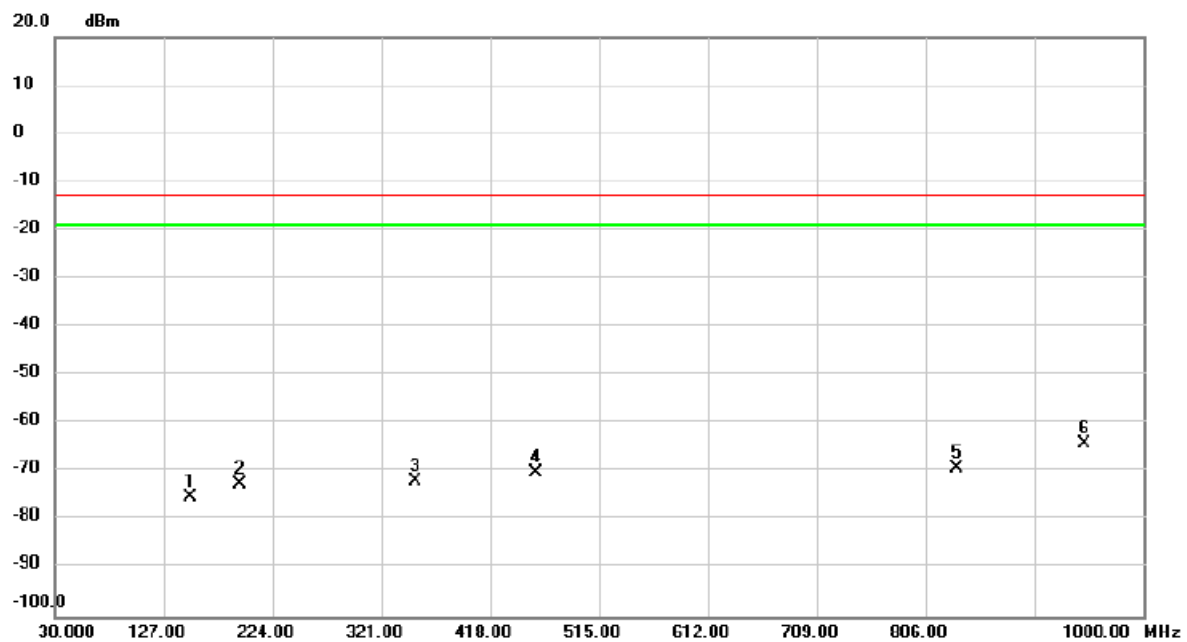
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		49.885	-56.39	-13.54	-69.93	-13.00	-56.93	peak	
2		90.625	-57.33	-15.67	-73.00	-13.00	-60.00	peak	
3		135.730	-52.56	-12.63	-65.19	-13.00	-52.19	peak	
4		192.960	-59.18	-14.31	-73.49	-13.00	-60.49	peak	
5		663.410	-63.99	-4.08	-68.07	-13.00	-55.07	peak	
6	*	948.105	-63.45	0.08	-63.37	-13.00	-50.37	peak	

Test Mode	LTE Band 5_TX CH20525_5M
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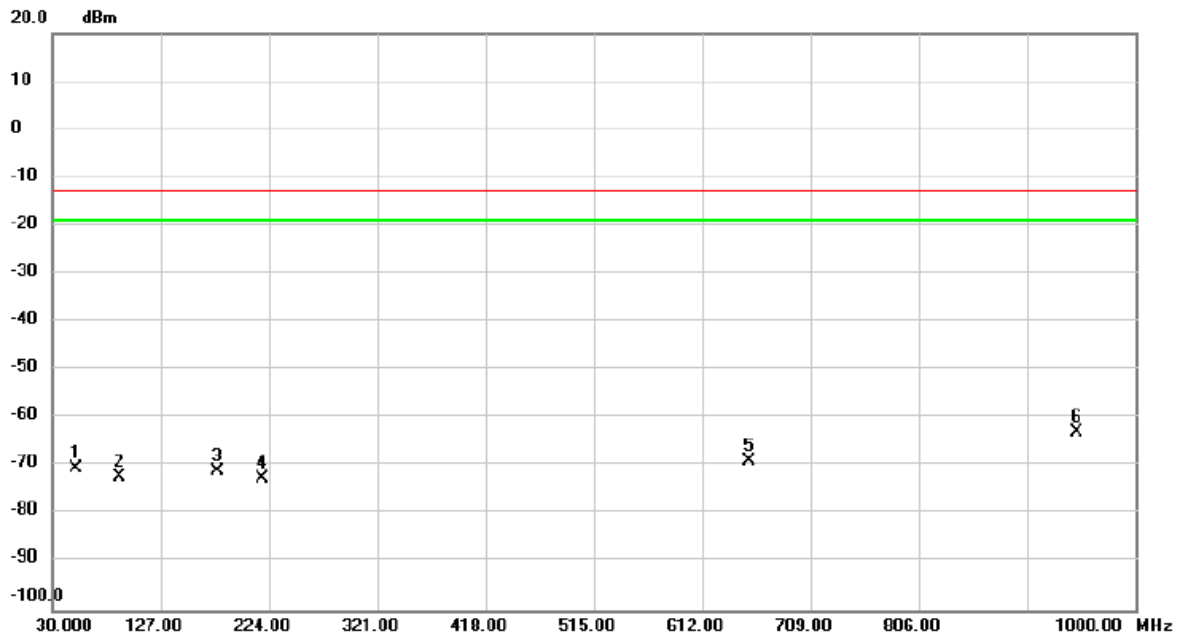
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		151.250	-63.53	-11.80	-75.33	-13.00	-62.33	peak	
2		194.900	-58.00	-14.44	-72.44	-13.00	-59.44	peak	
3		351.555	-61.64	-10.17	-71.81	-13.00	-58.81	peak	
4		458.255	-62.45	-7.57	-70.02	-13.00	-57.02	peak	
5		833.160	-67.17	-2.01	-69.18	-13.00	-56.18	peak	
6	*	948.105	-64.30	0.08	-64.22	-13.00	-51.22	peak	

Test Mode LTE Band 5_TX CH20525_10M

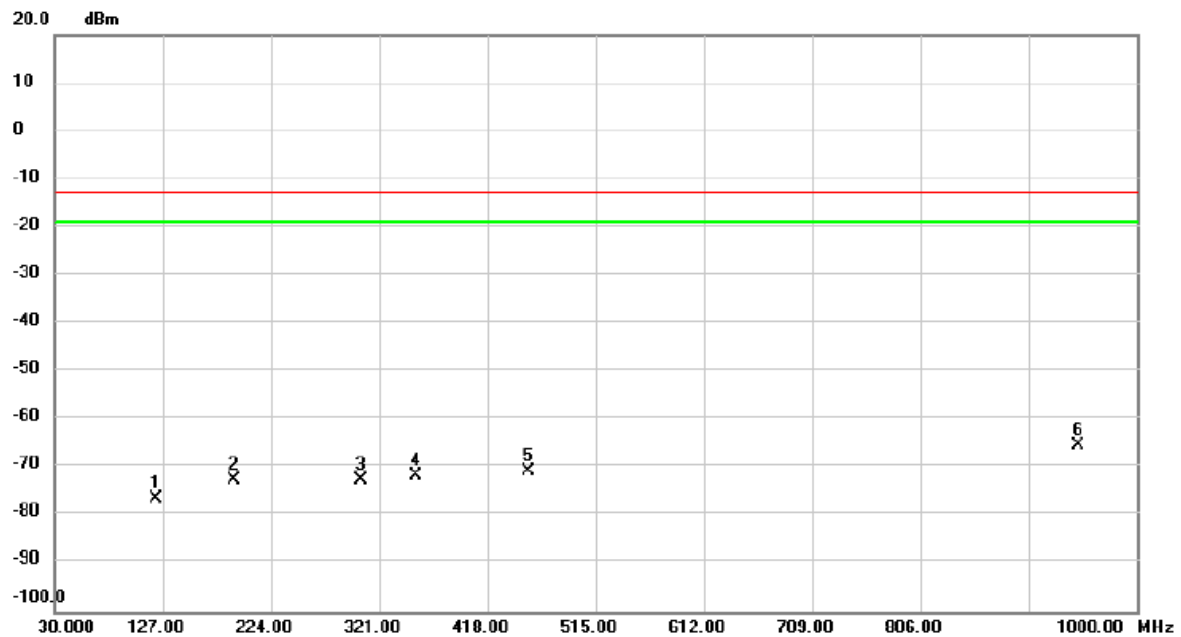
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		50.855	-56.71	-13.60	-70.31	-13.00	-57.31	peak	
2		90.140	-56.53	-15.71	-72.24	-13.00	-59.24	peak	
3		177.925	-58.38	-12.63	-71.01	-13.00	-58.01	peak	
4		218.180	-58.23	-14.42	-72.65	-13.00	-59.65	peak	
5		654.195	-64.88	-4.20	-69.08	-13.00	-56.08	peak	
6	*	948.105	-63.06	0.08	-62.98	-13.00	-49.98	peak	

Test Mode	LTE Band 5_TX CH20525_10M
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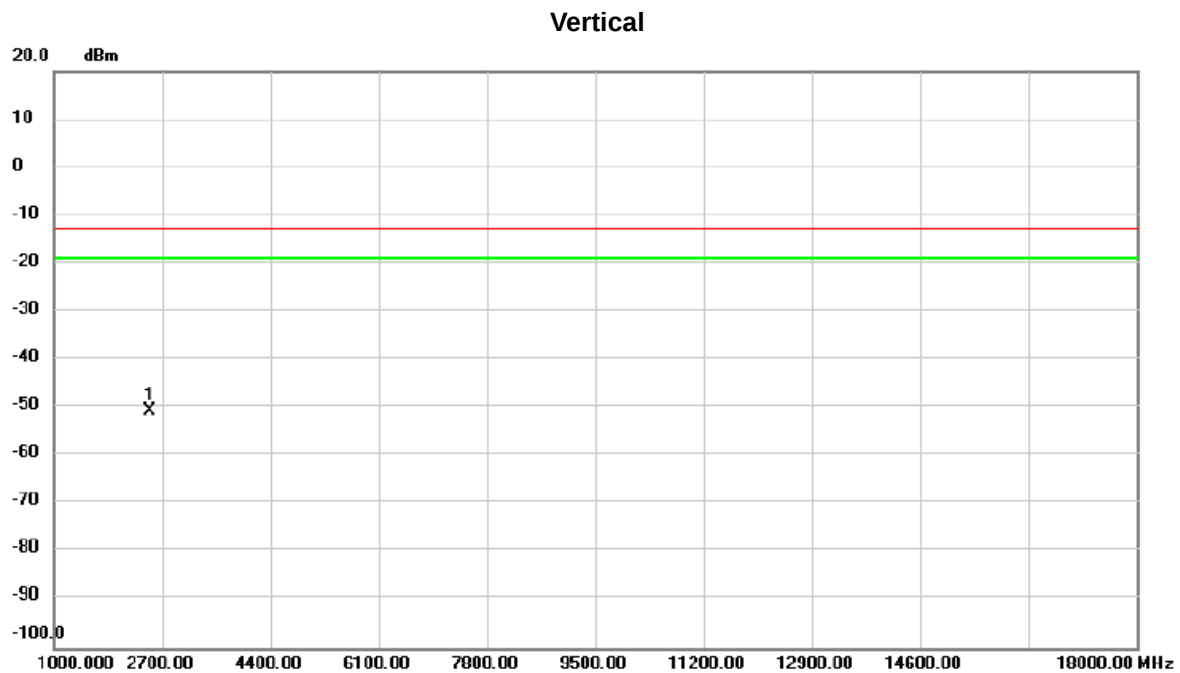
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	121.180	-63.83	-12.74	-76.57	-13.00	-63.57	peak	
2	191.505	-58.42	-14.20	-72.62	-13.00	-59.62	peak	
3	304.995	-61.49	-10.92	-72.41	-13.00	-59.41	peak	
4	353.980	-61.41	-10.11	-71.52	-13.00	-58.52	peak	
5	454.860	-63.06	-7.60	-70.66	-13.00	-57.66	peak	
6 *	948.105	-65.28	0.08	-65.20	-13.00	-52.20	peak	

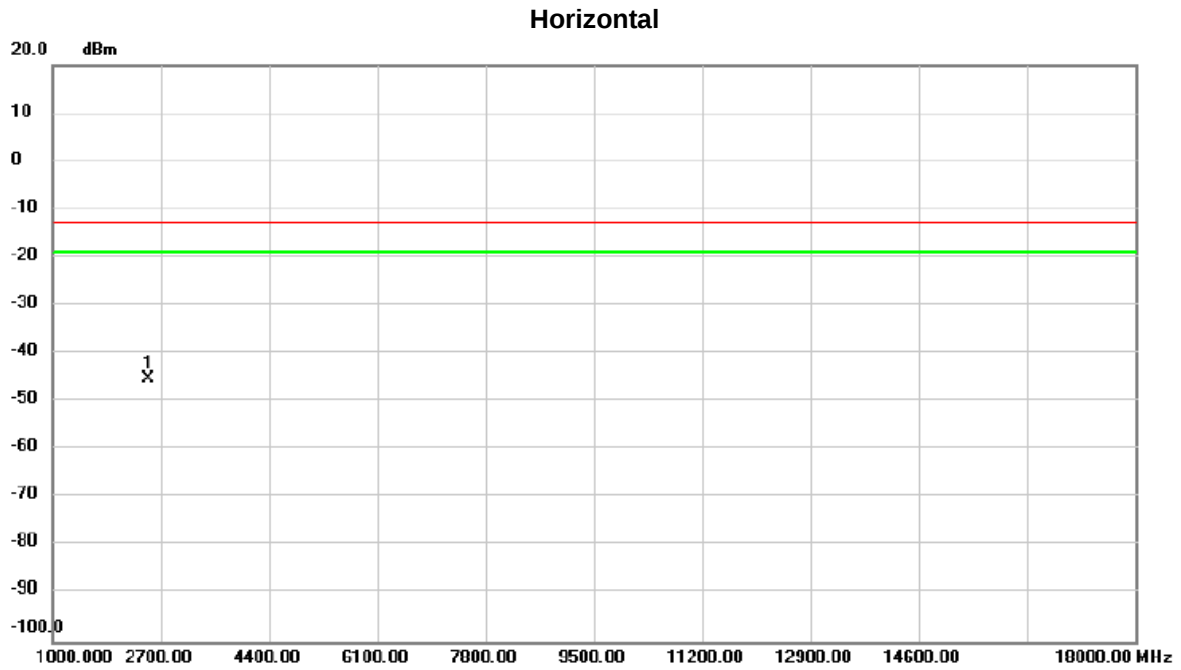
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode	GSM850_ TX CH190_GSM
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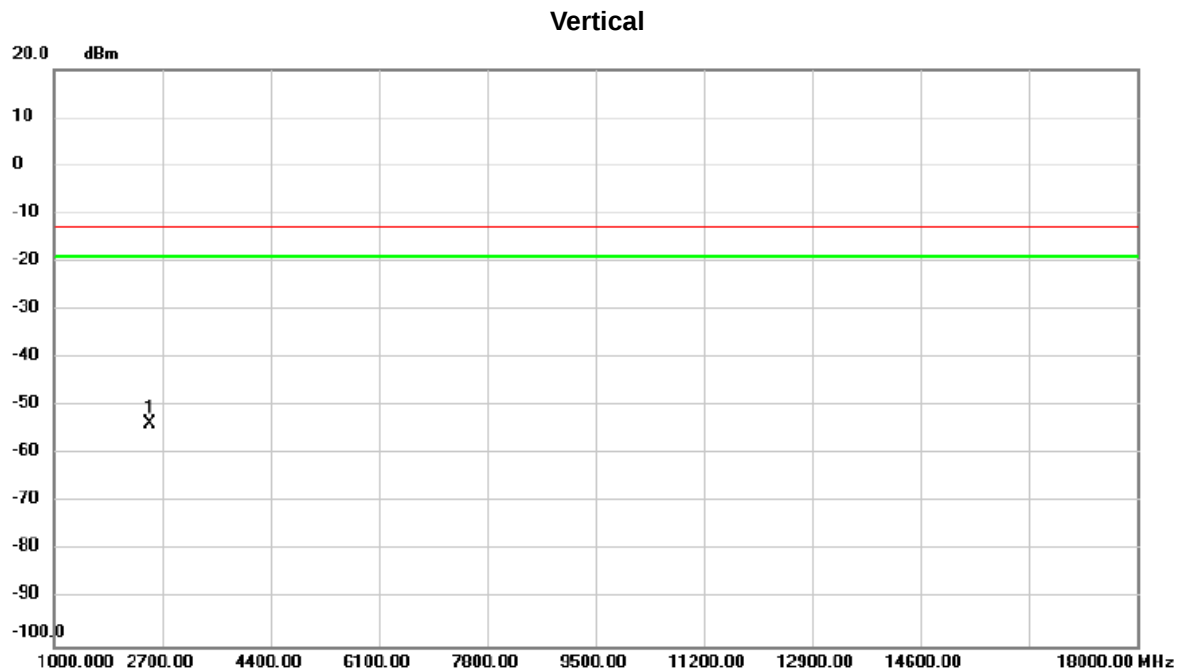
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2513.000	-48.03	-2.71	-50.74	-13.00	-37.74	peak	

Test Mode	GSM850_ TX CH190_GSM
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2513.000	-42.47	-2.71	-45.18	-13.00	-32.18	peak	

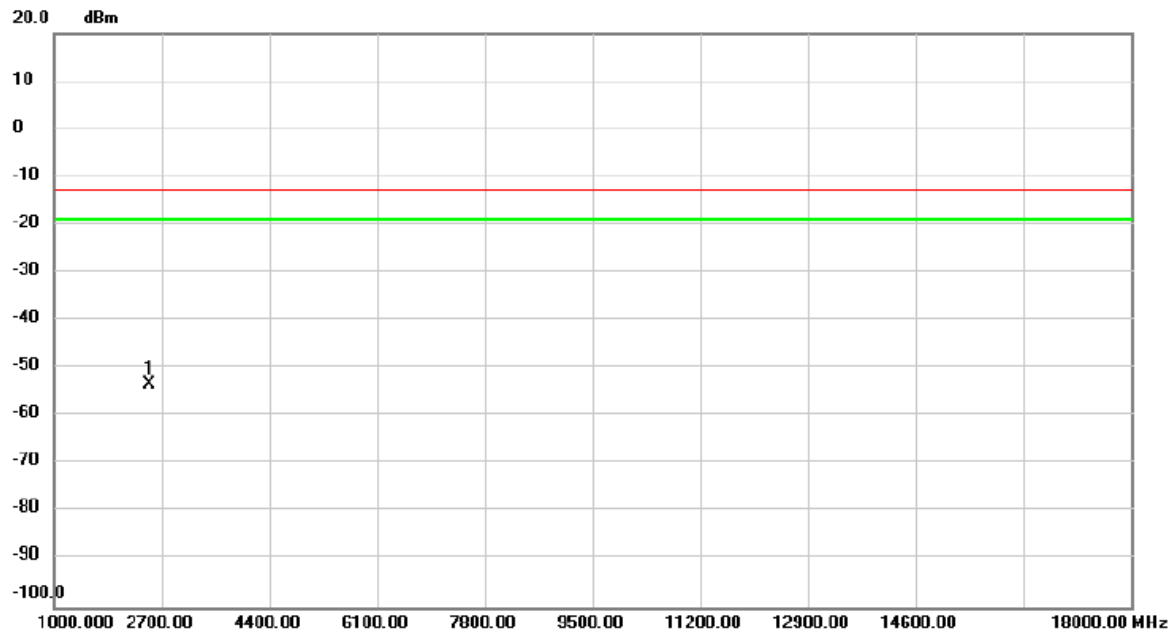
Test Mode	WCDMA Band V_TX CH4182
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2513.000	-50.82	-2.71	-53.53	-13.00	-40.53	peak	

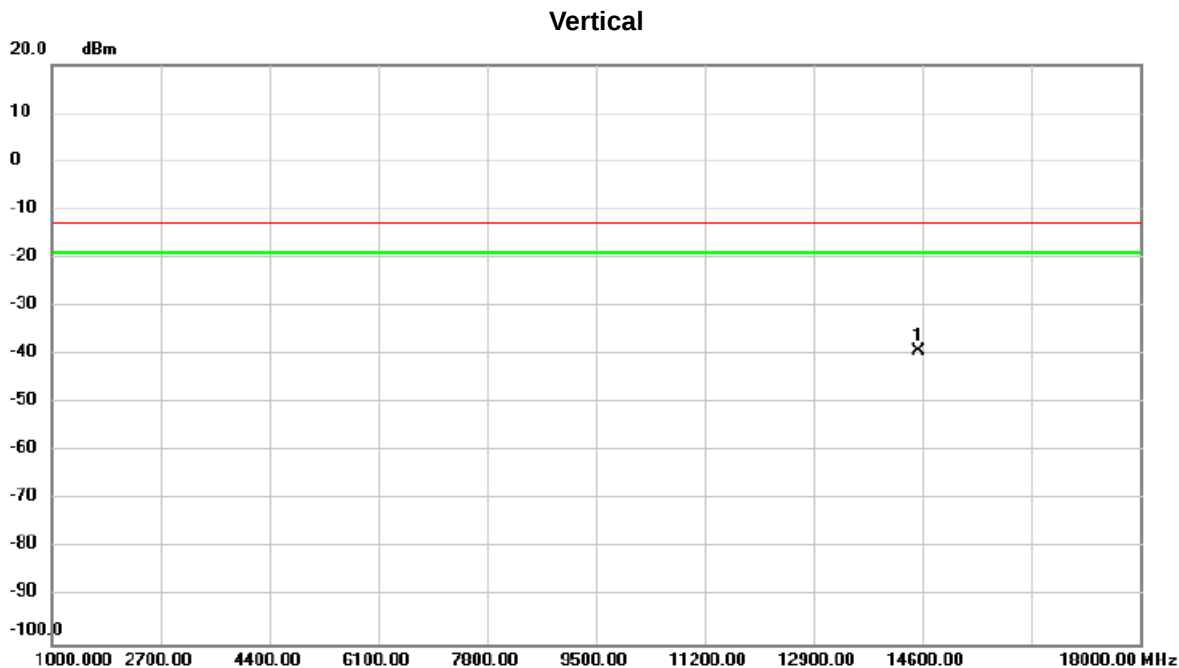
Test Mode	WCDMA Band V_TX CH4182
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Horizontal



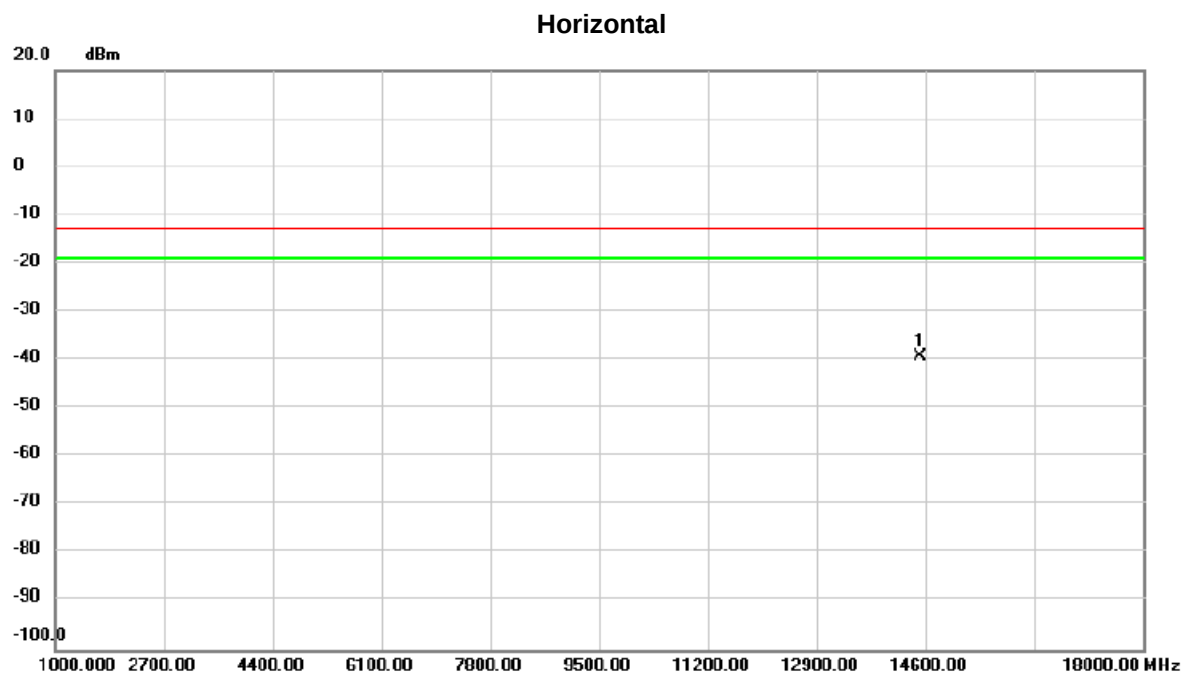
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	2513.000	-50.49	-2.71	-53.20	-13.00	-40.20	peak	

Test Mode	LTE Band 5_TX CH20525_1.4M
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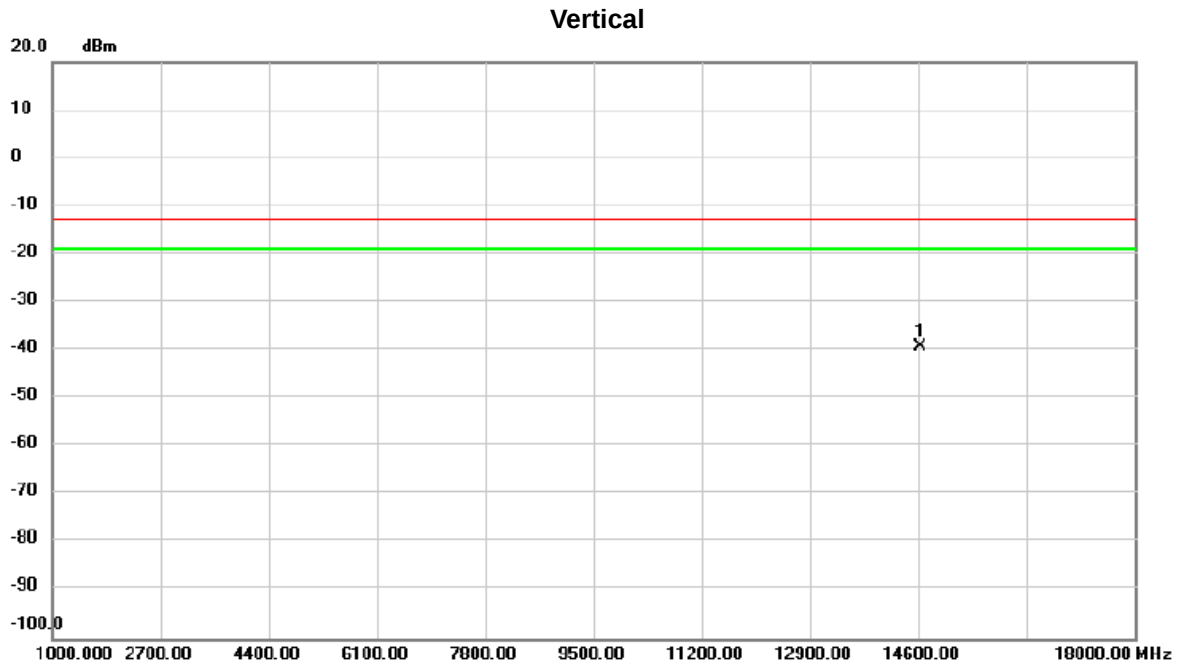
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	14532.000	-57.10	18.00	-39.10	-13.00	-26.10	peak	

Test Mode	LTE Band 5_TX CH20525_1.4M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	14523.500	-57.41	18.03	-39.38	-13.00	-26.38	peak	

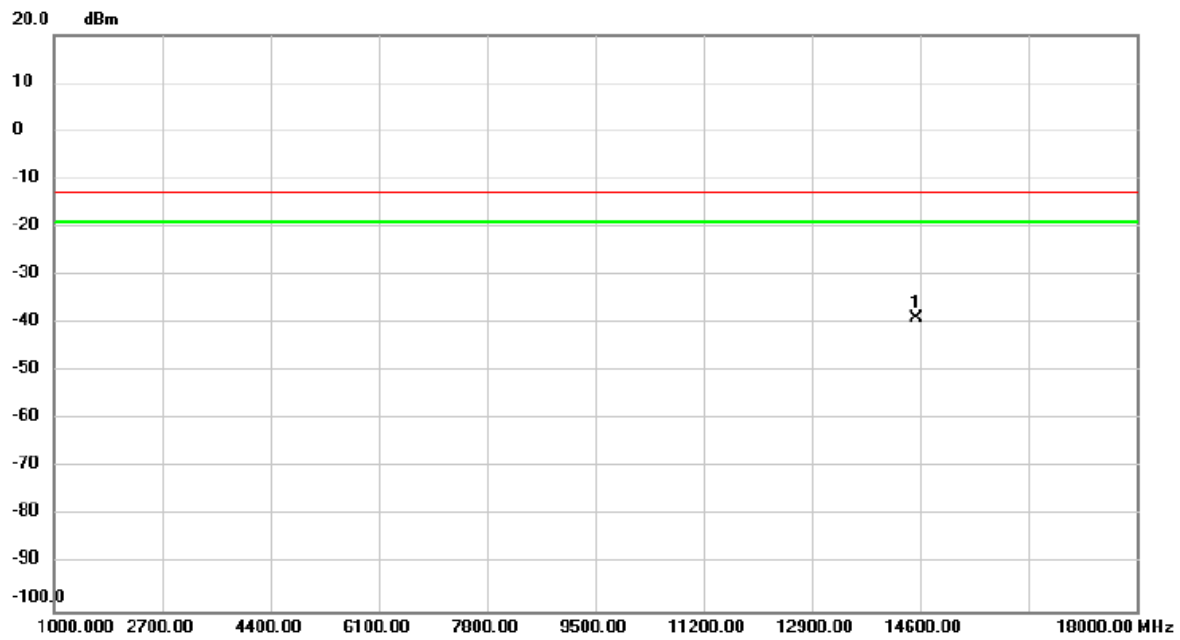
Test Mode LTE Band 5_TX CH20525_5M



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	14625.500	-56.78	17.64	-39.14	-13.00	-26.14	peak	

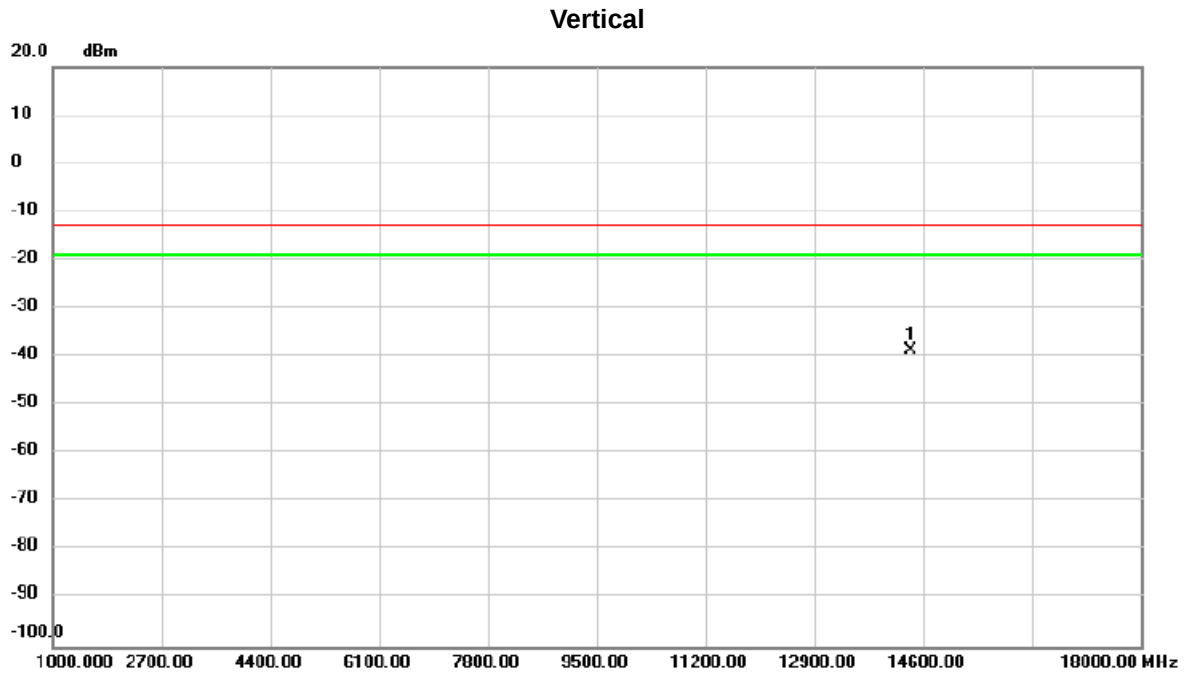
Test Mode	LTE Band 5_TX CH20525_5M
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Horizontal



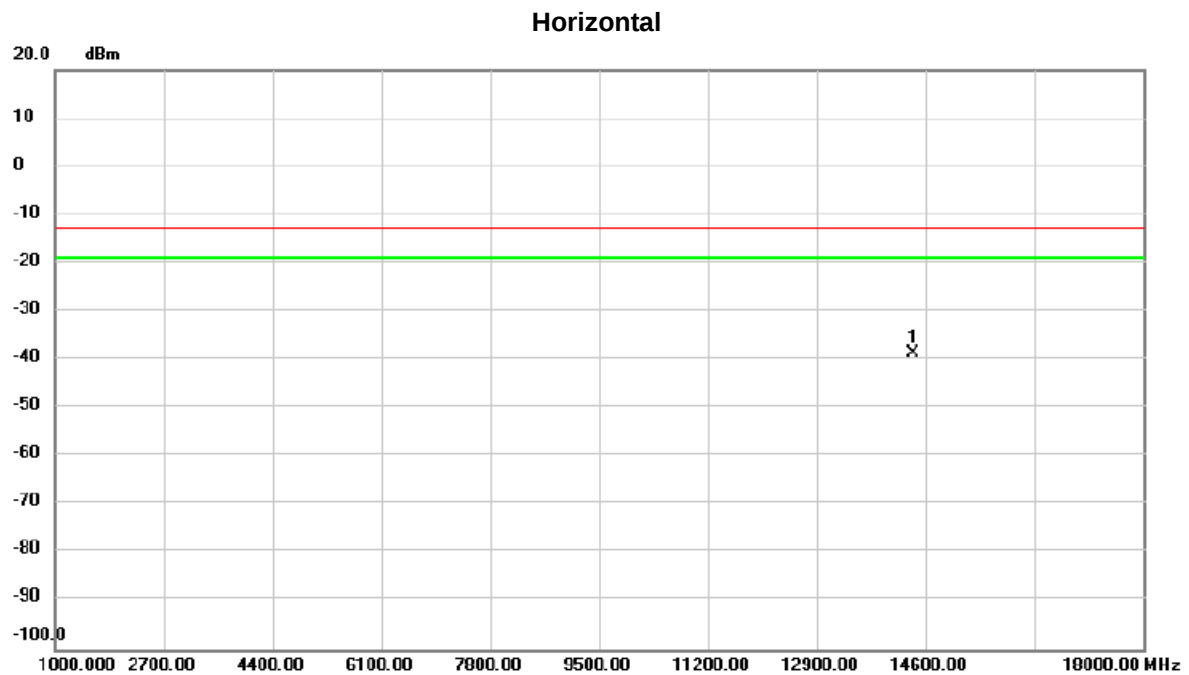
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	14549.000	-56.85	17.94	-38.91	-13.00	-25.91	peak	

Test Mode	LTE Band 5_TX CH20525_10M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	14404.500	-56.73	18.19	-38.54	-13.00	-25.54	peak	

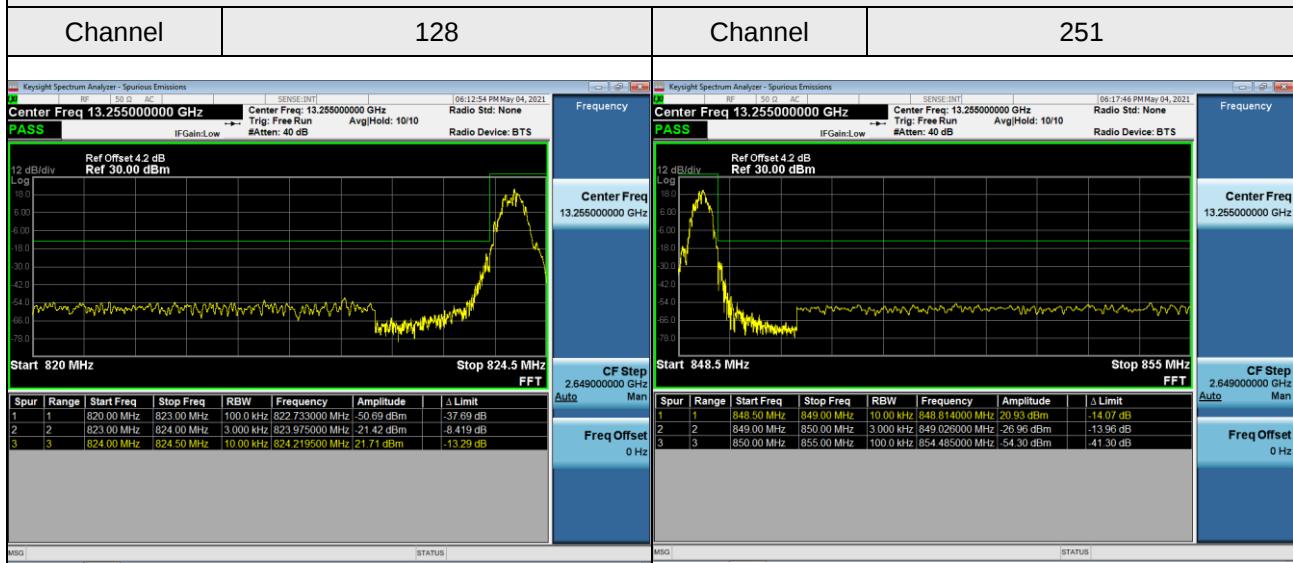
Test Mode	LTE Band 5_TX CH20525_10M
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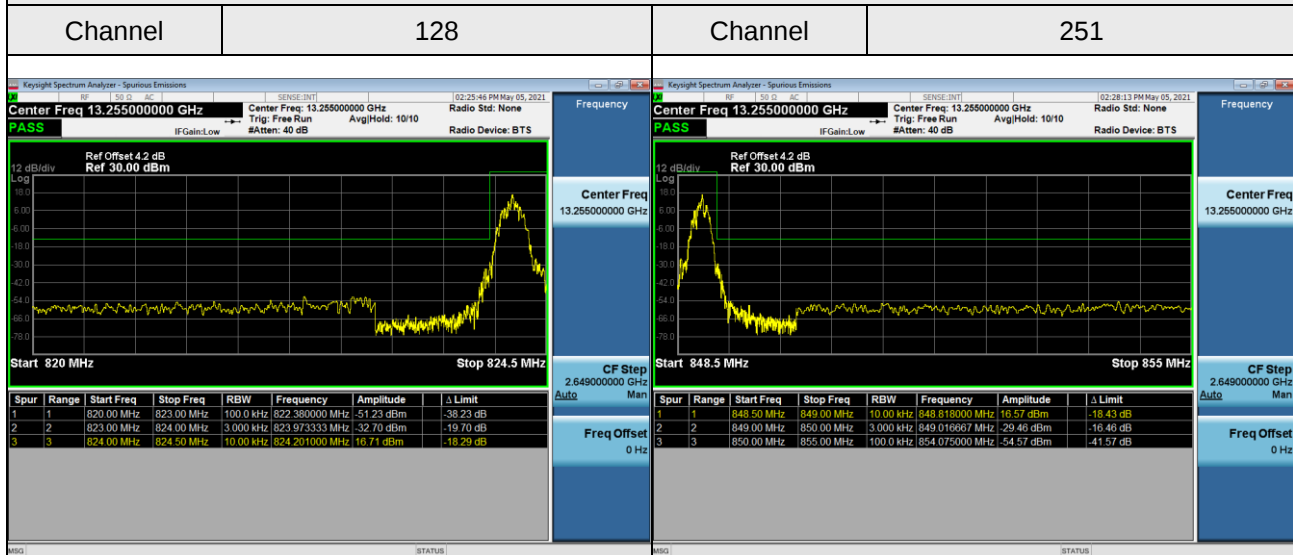
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	14413.000	-56.73	18.18	-38.55	-13.00	-25.55	peak	

APPENDIX G - BAND EDGE

GSM850_GSM Spectrum Plot



GSM850_EDGE Spectrum Plot



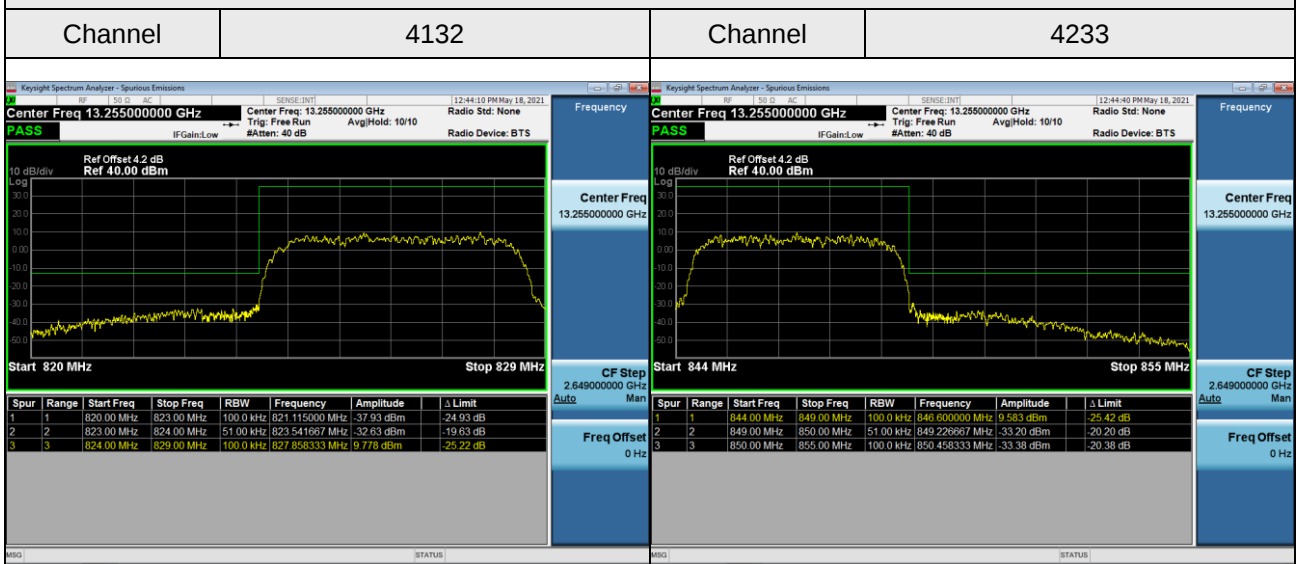
WCDMA Band V_WCDMA Spectrum Plot



WCDMA Band V_HSDPA Spectrum Plot



WCDMA Band V_HSUPA Spectrum Plot



LTE Band 5_1.4M Spectrum Plot

1RB#0

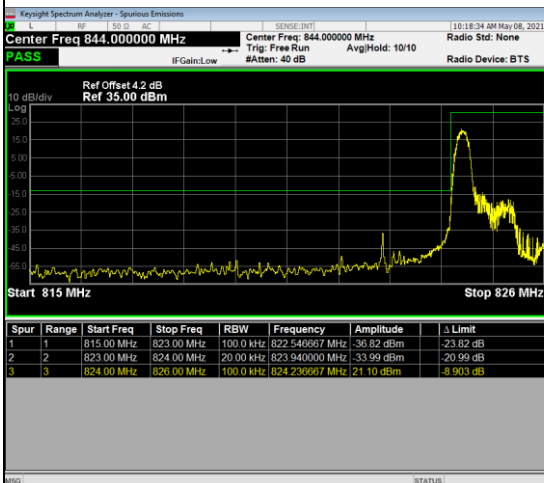
1RB#5

Channel

20407

Channel

20643



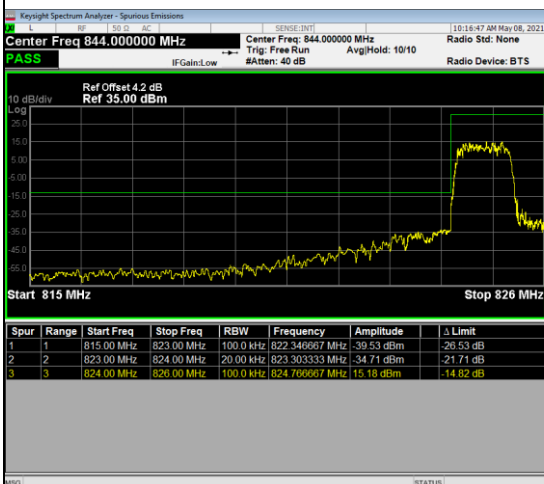
6RB#0

Channel

20407

Channel

20643



LTE Band 5_3M Spectrum Plot

1RB#0

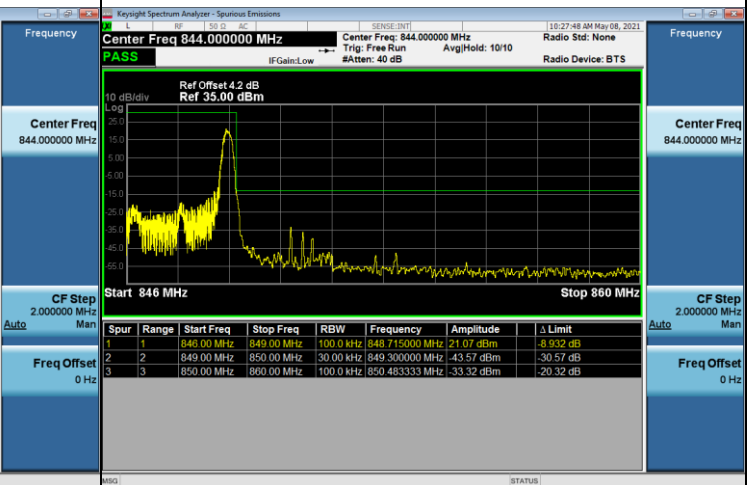
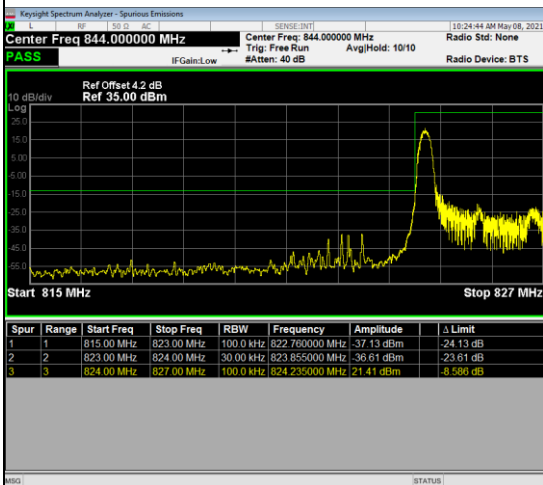
1RB#14

Channel

20415

Channel

20635



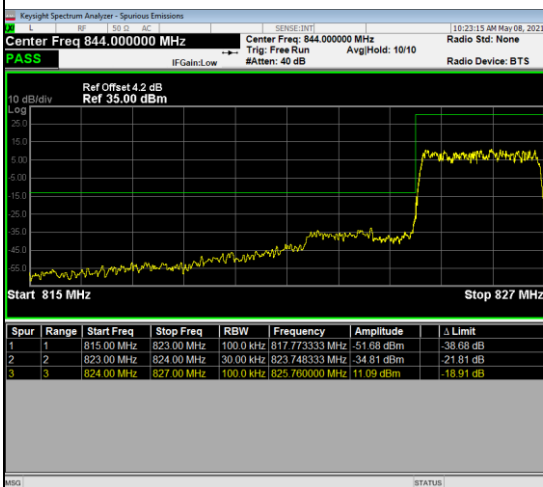
15RB#0

Channel

20415

Channel

20635



LTE Band 5_5M Spectrum Plot

1RB#0

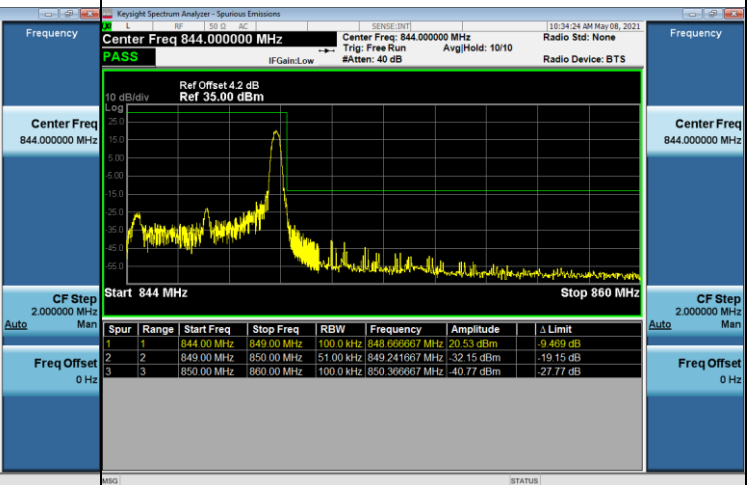
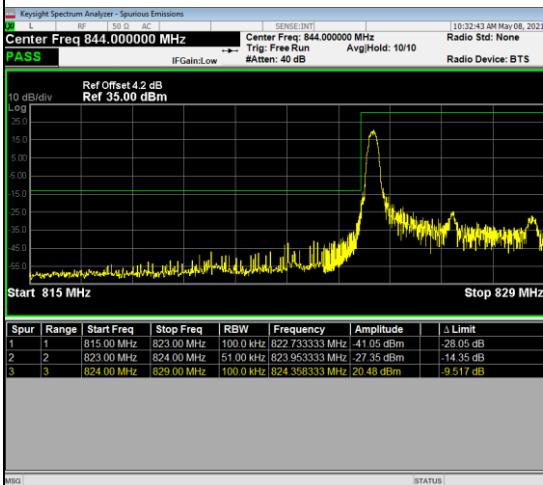
1RB#24

Channel

20425

Channel

20625



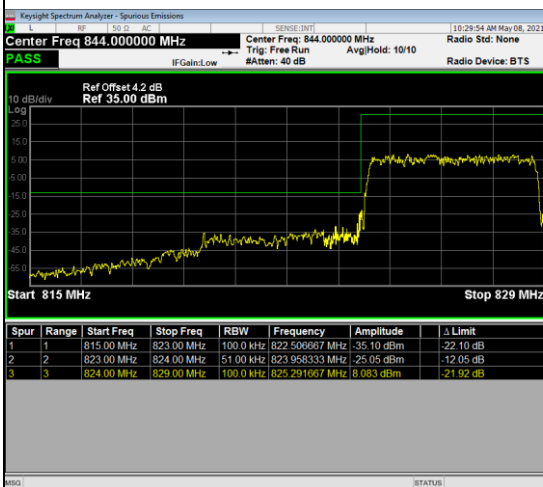
25RB#0

Channel

20425

Channel

20625



LTE Band 5_10M Spectrum Plot

1RB#0

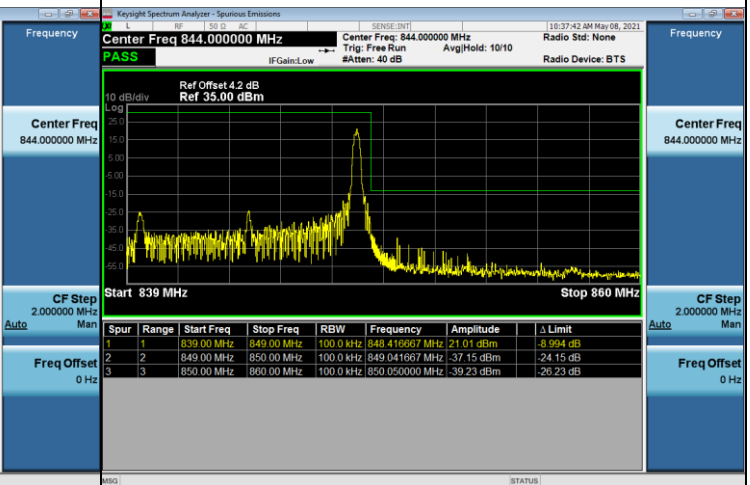
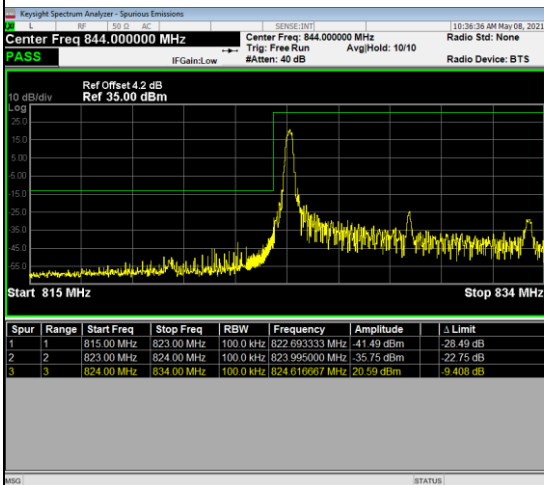
1RB#49

Channel

20450

Channel

20600



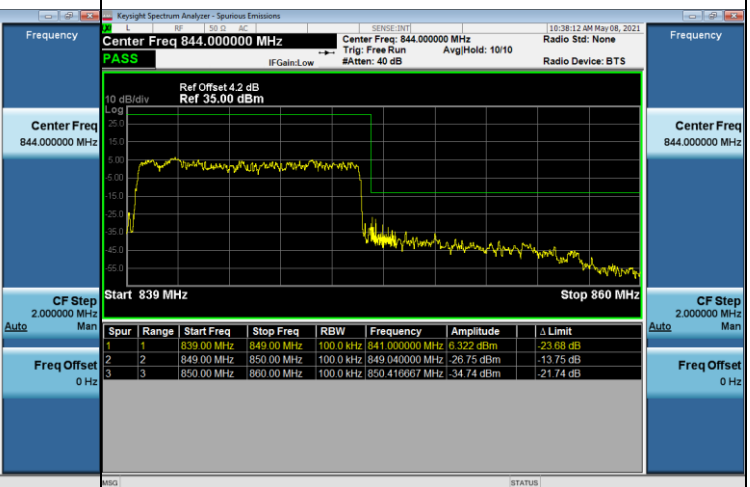
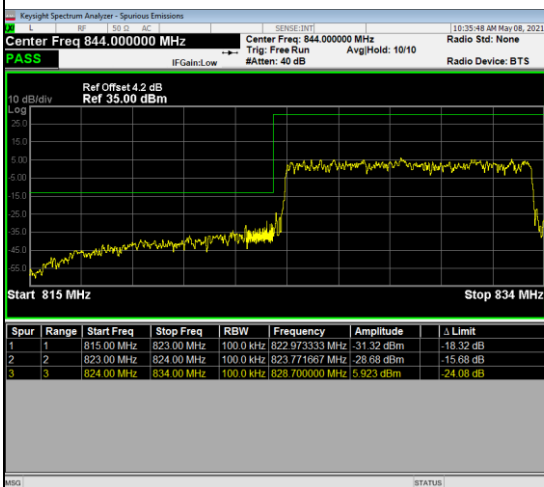
50RB#0

Channel

20450

Channel

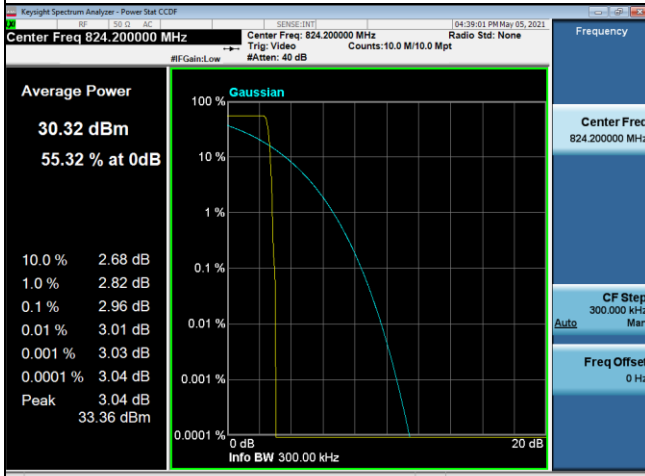
20600



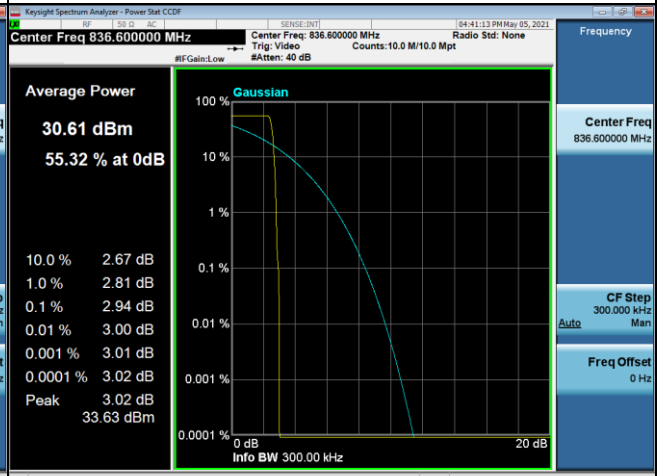
APPENDIX H - PEAK TO AVERAGE RATIO

GSM 850 Spectrum Plot

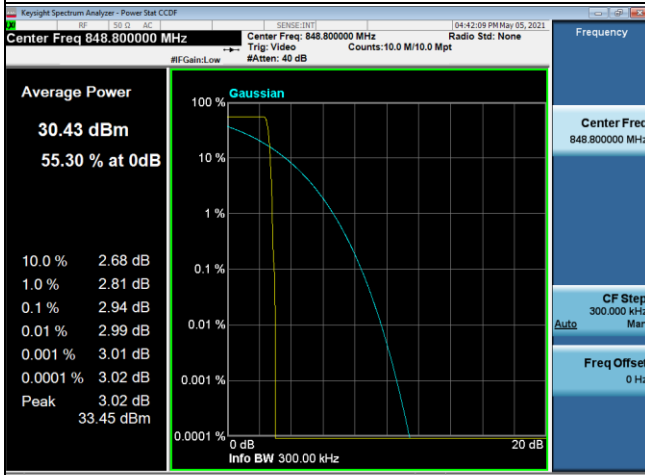
GSM-128



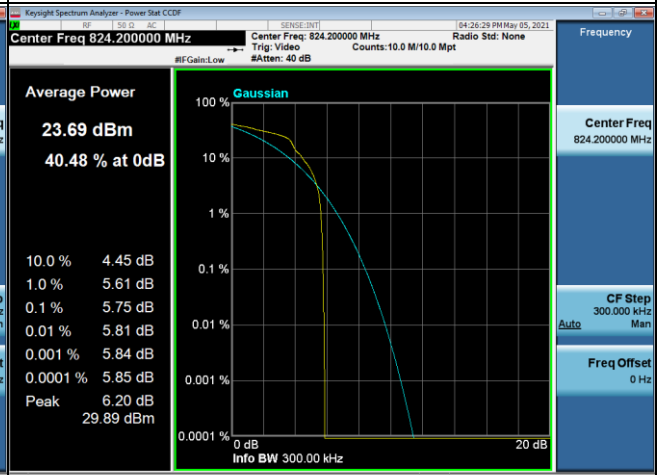
GSM-190



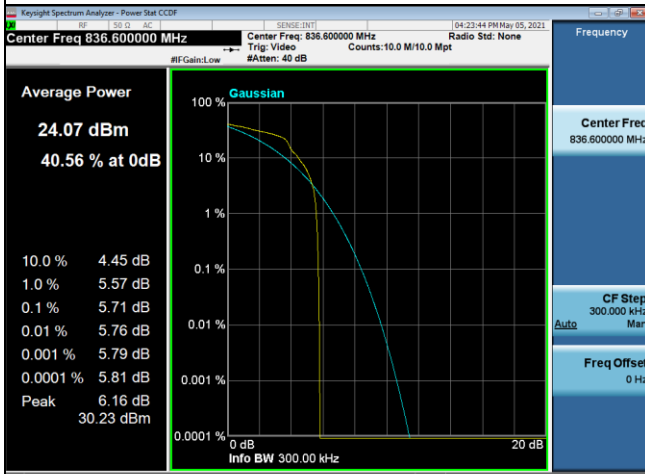
GSM-251



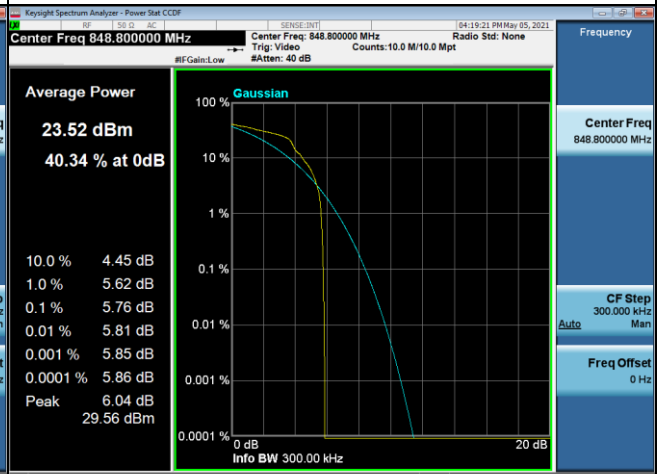
EDGE-128



EDGE-190

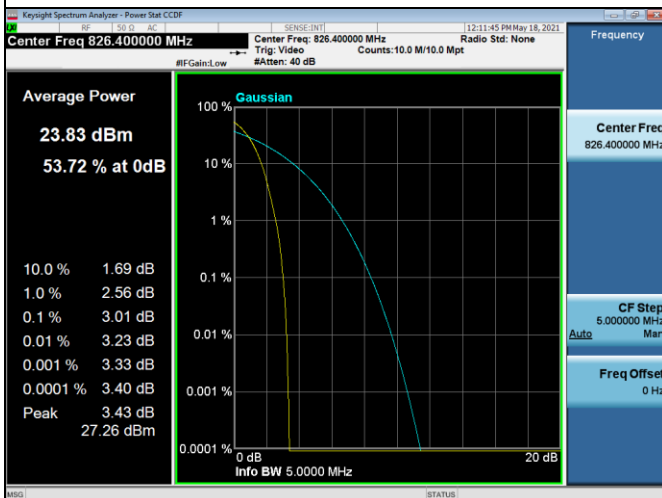


EDGE-251

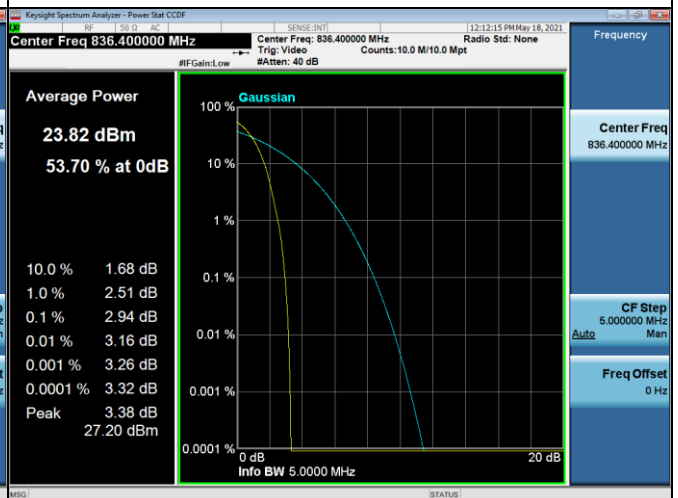


WCDMA Band V_WCDMA Spectrum Plot

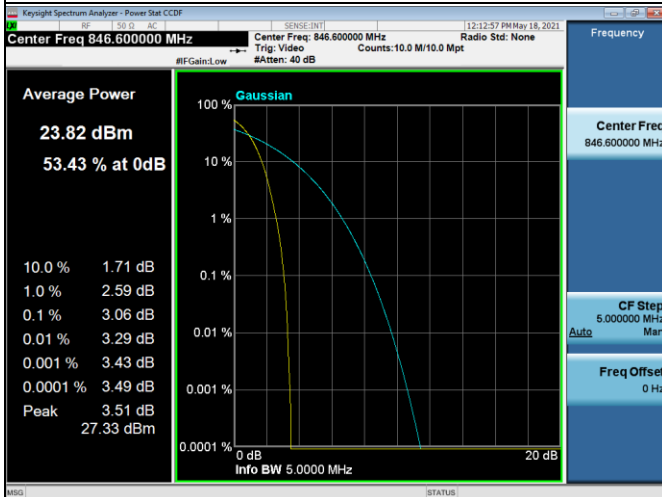
4132



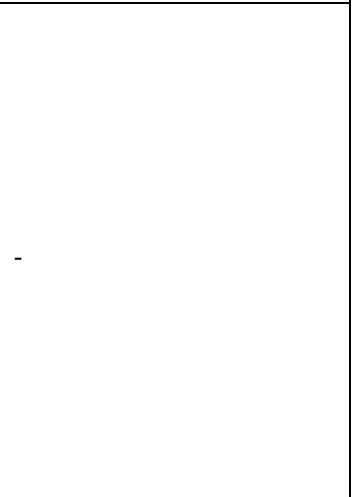
4182



4233



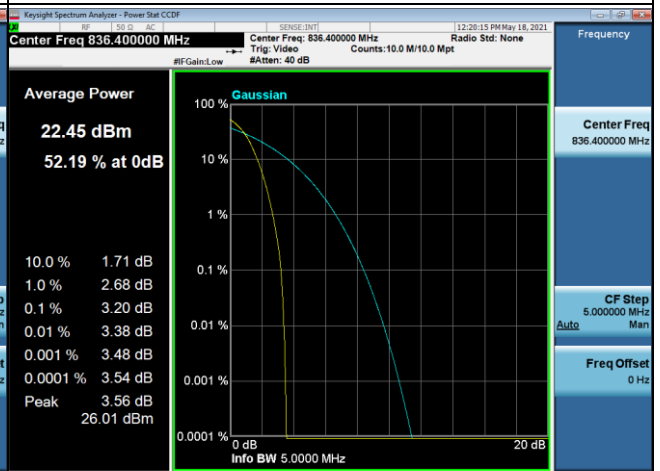
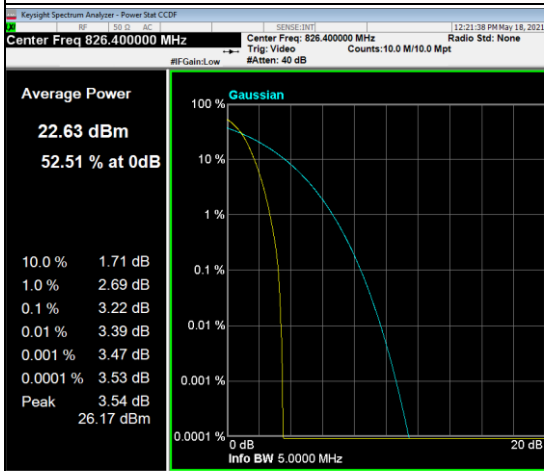
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WCDMA Band V_HSDPA Spectrum Plot

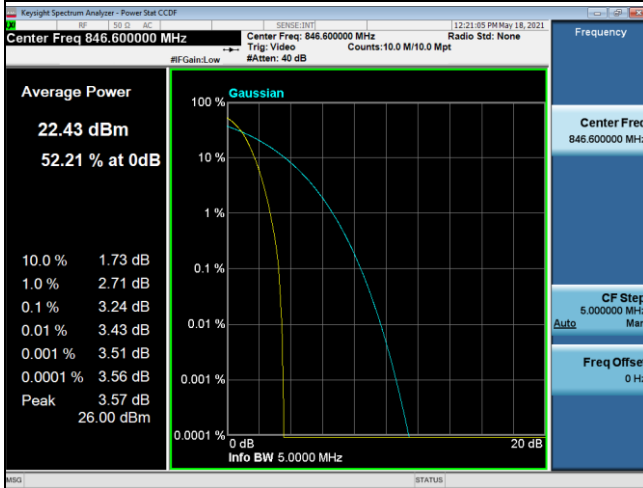
4132

4182



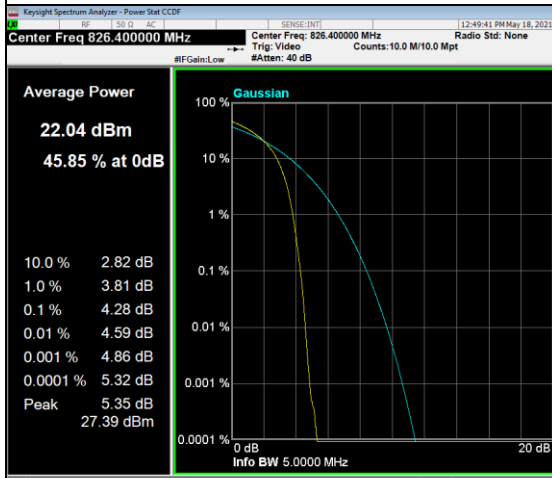
4233

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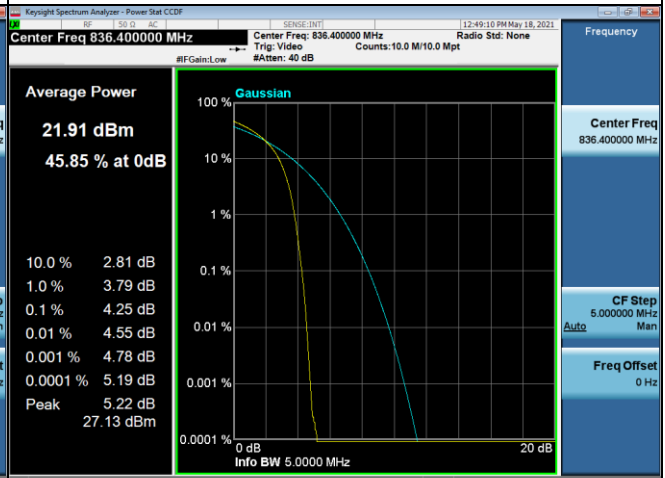


WCDMA Band V_HSUPA Spectrum Plot

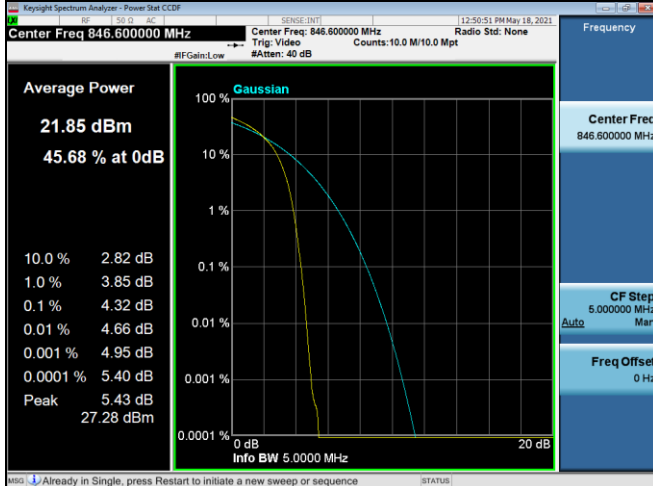
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4182

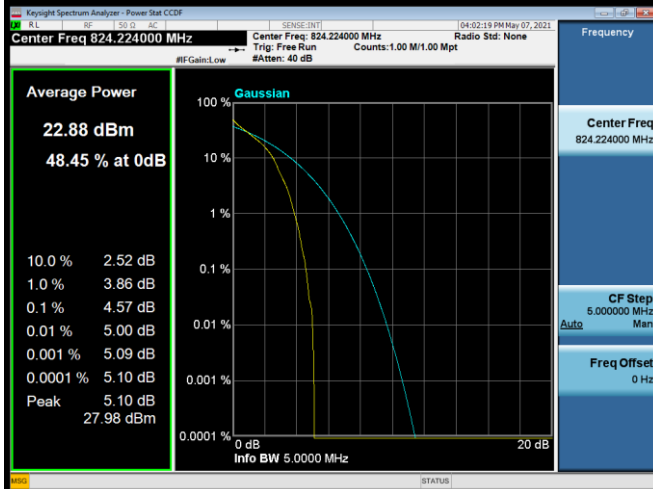


4233

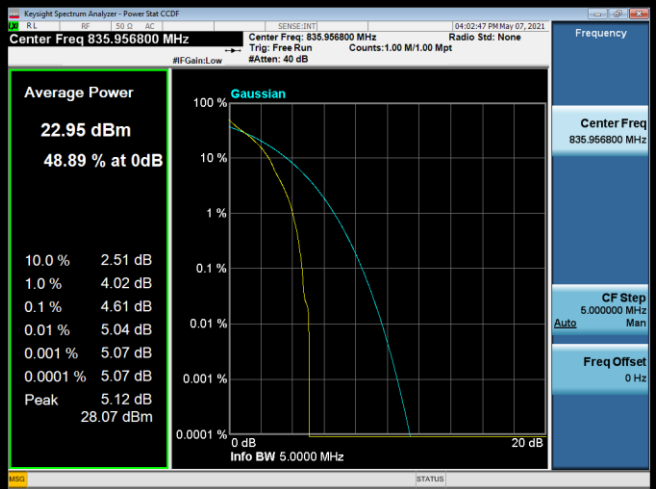


LTE Band 5_1.4M Spectrum Plot

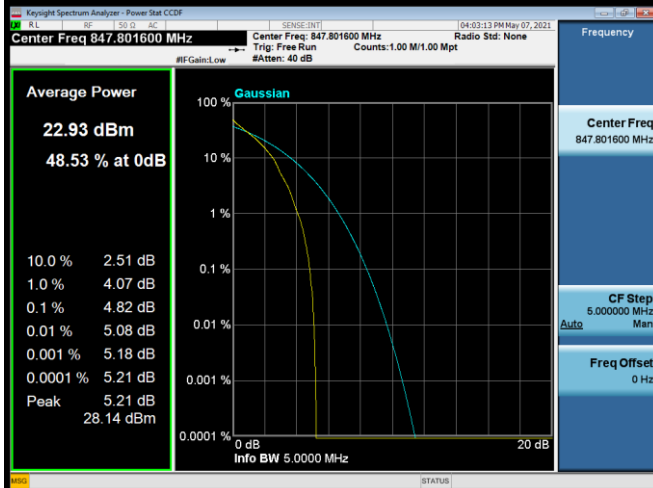
QPSK-20407



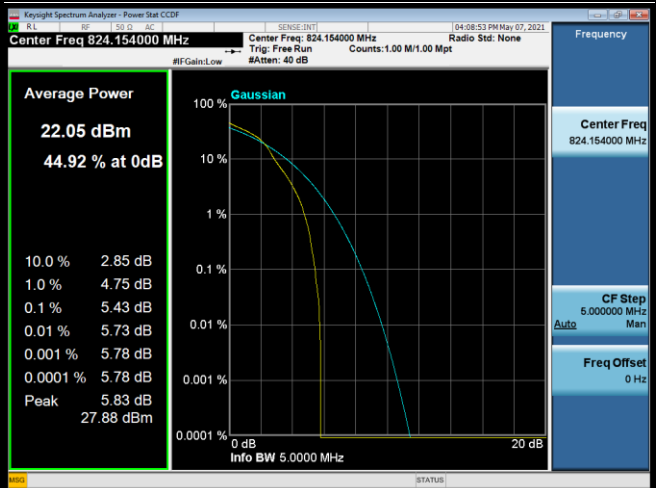
QPSK-20525



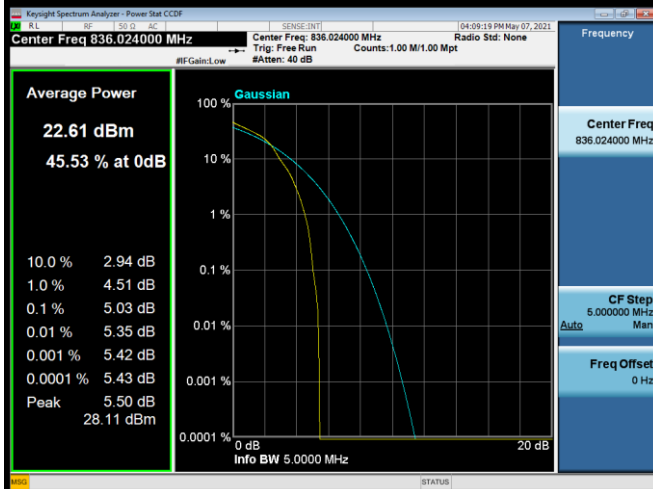
QPSK-20643



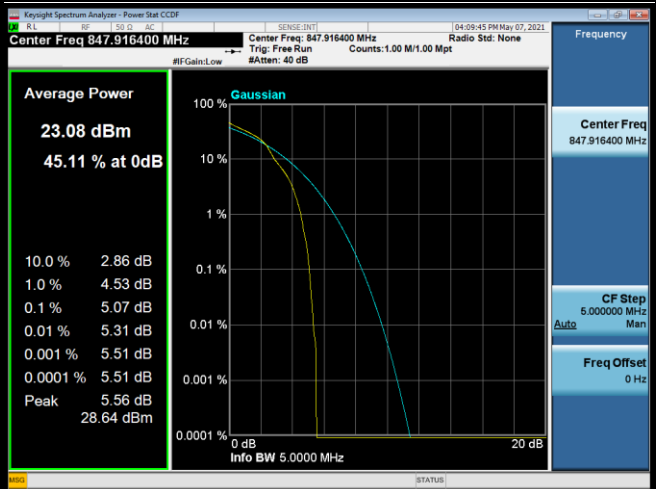
16QAM-20407



16QAM-20525

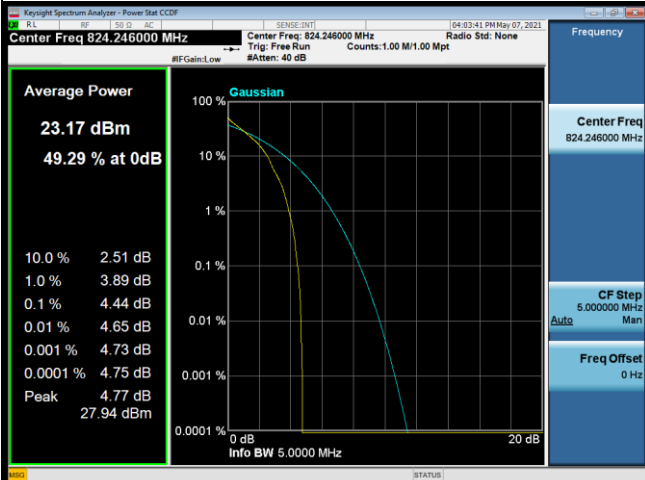


16QAM-20643

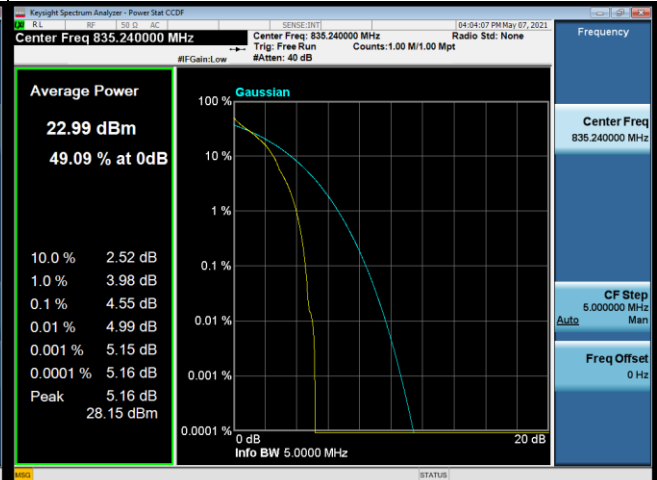


LTE Band 5_3M Spectrum Plot

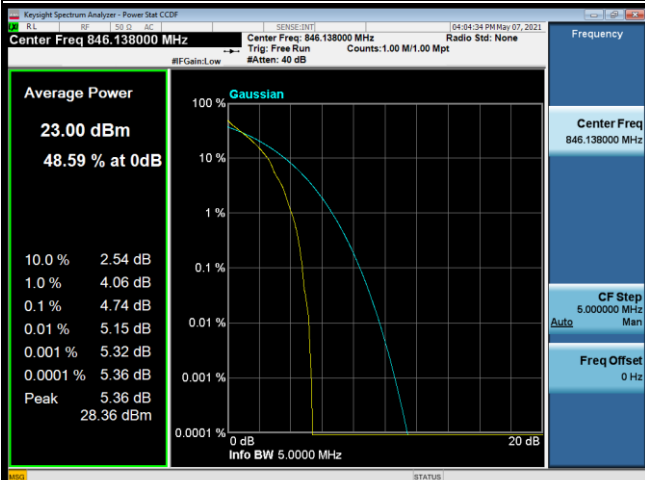
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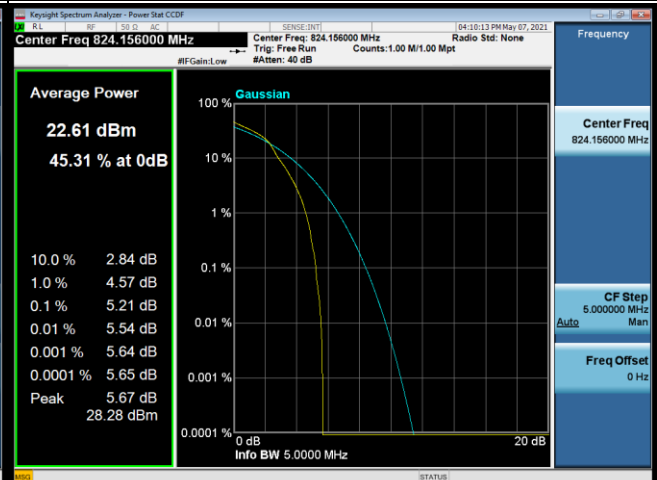
QPSK-20525



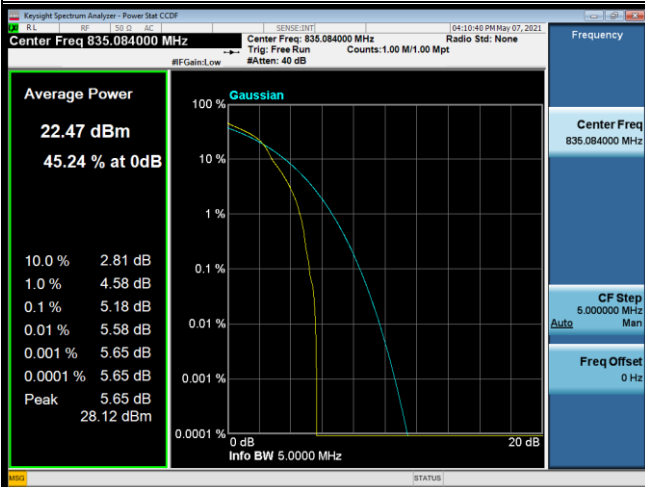
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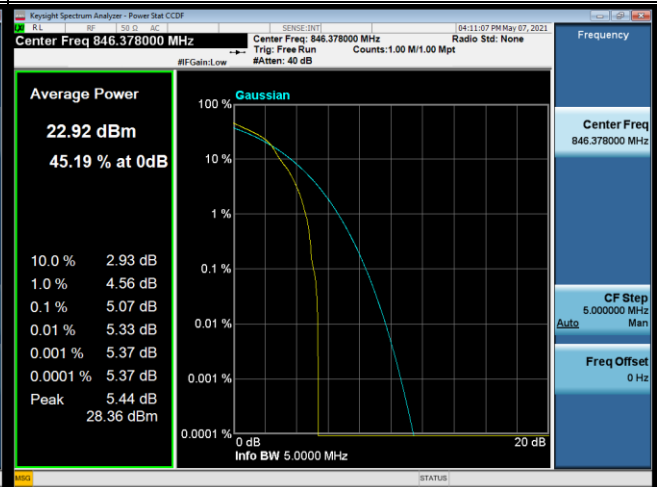
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16QAM-20525

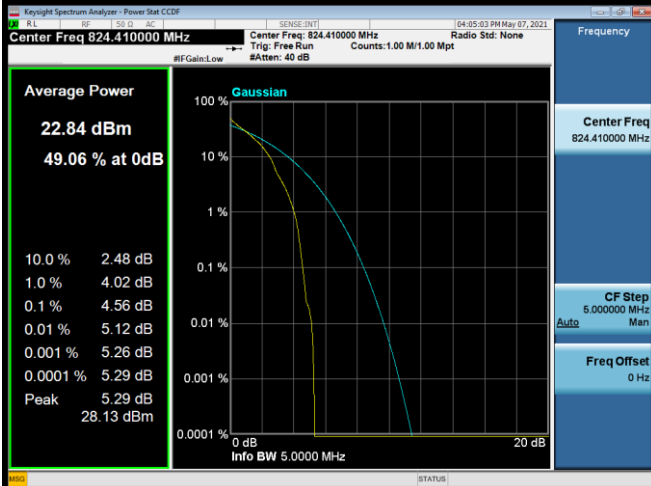


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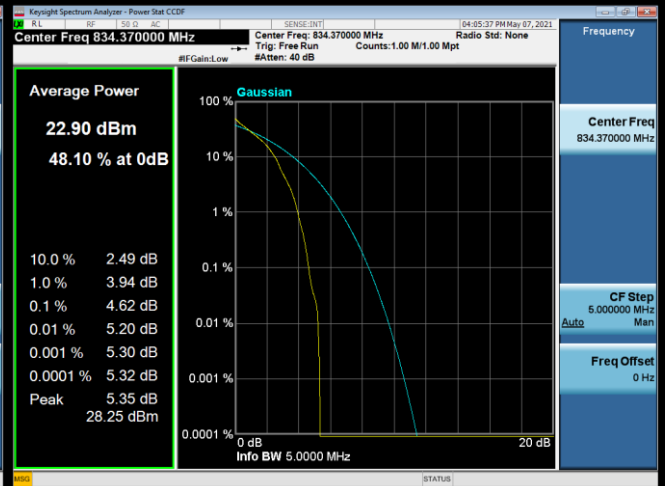


LTE Band 5_5M Spectrum Plot

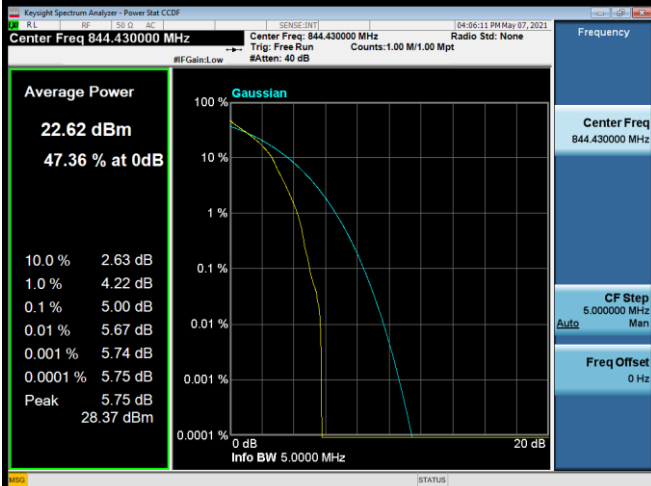
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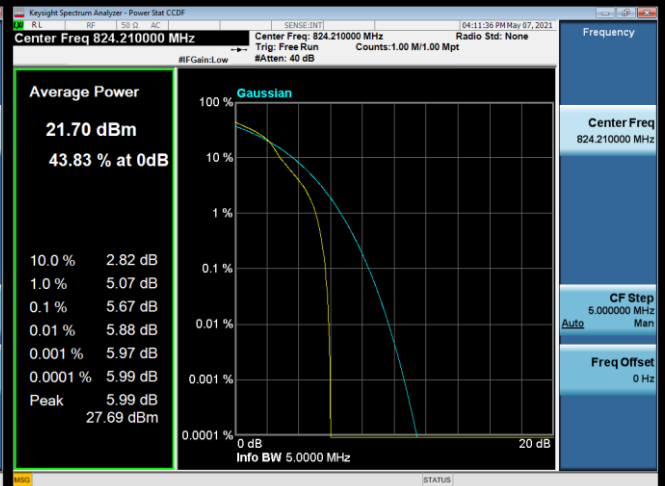
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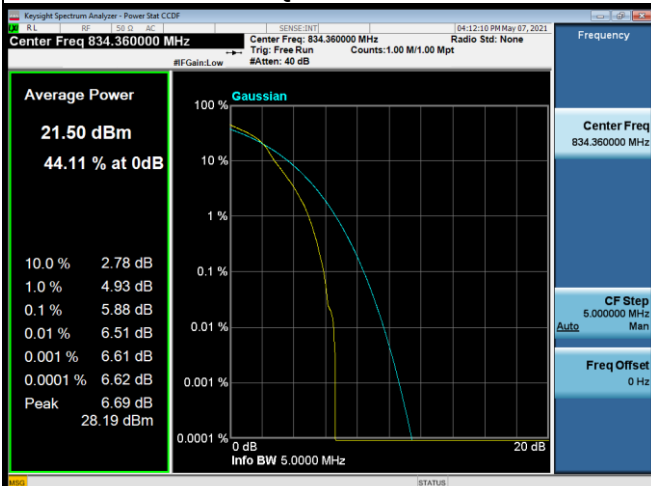
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16QAM-20425



16QAM-20525



16QAM-20625

