Appendix B

WCDMA Band II & IV & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	24.62	20.39	33.00	PASS
Band II	9400	24.56	20.33	33.00	PASS
Band II	9538	24.64	20.41	33.00	PASS
Band IV	1312	23.95	18.52	30.00	PASS
Band IV	1413	23.91	18.48	30.00	PASS
Band IV	1513	23.81	18.38	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.91	14.80	38.45	PASS
Band V	4182	24.95	14.84	38.45	PASS
Band V	4233	24.93	14.82	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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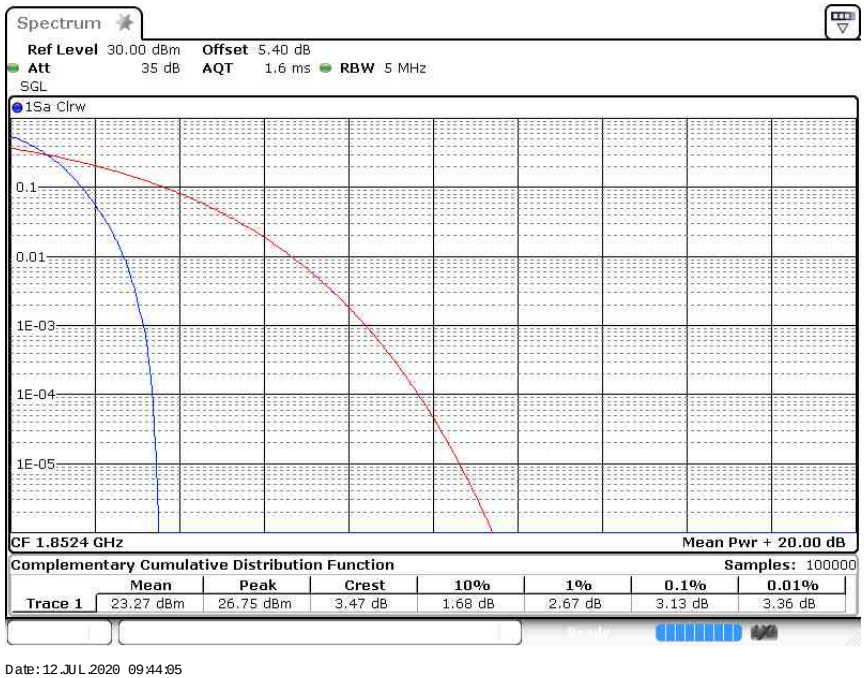
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	3.10	13	PASS
Band II	9538	3.01	13	PASS
Band IV	1312	3.04	13	PASS
Band IV	1413	3.19	13	PASS
Band IV	1513	2.96	13	PASS
Band V	4132	2.78	13	PASS
Band V	4182	2.52	13	PASS
Band V	4233	7.62	13	PASS

2.2. Test Plots



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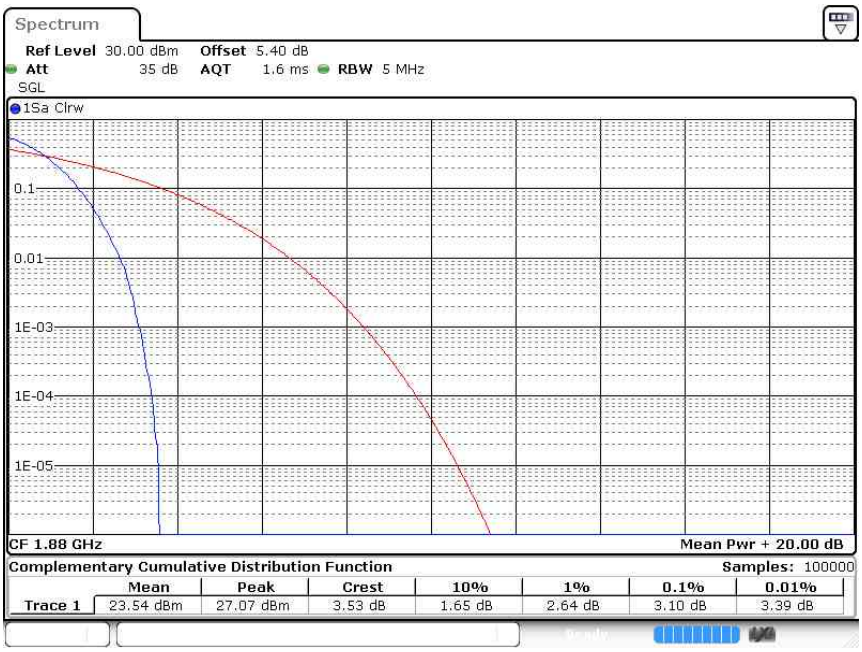

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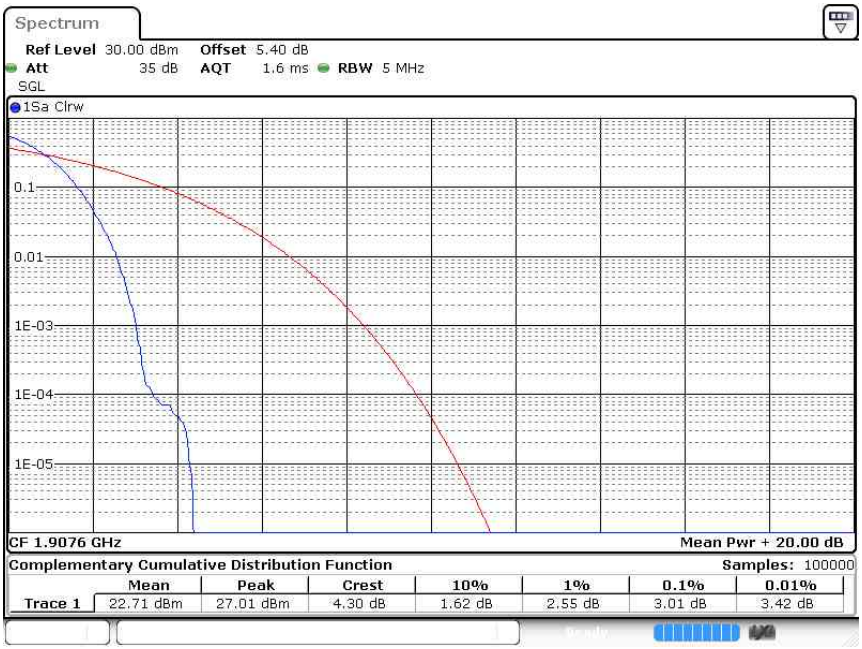

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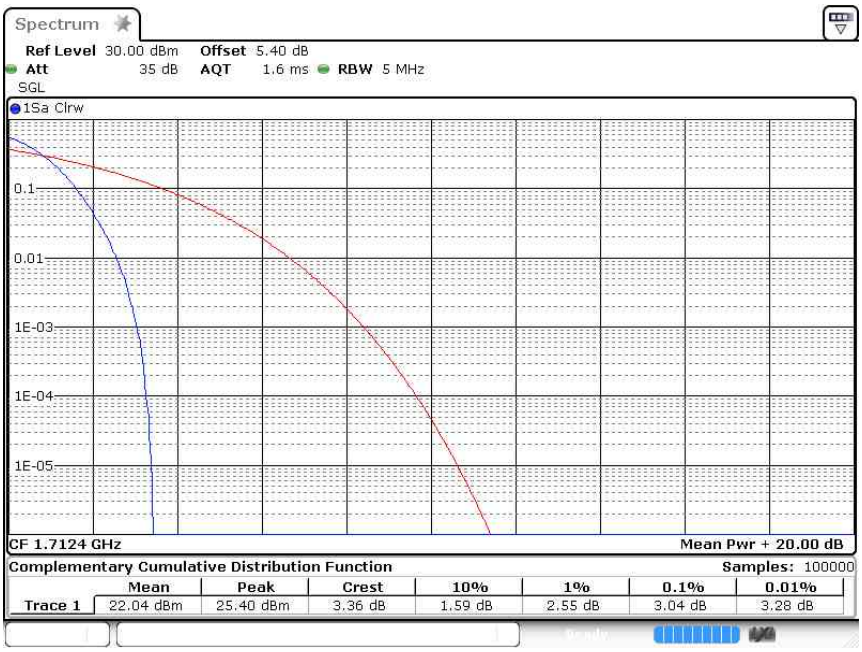

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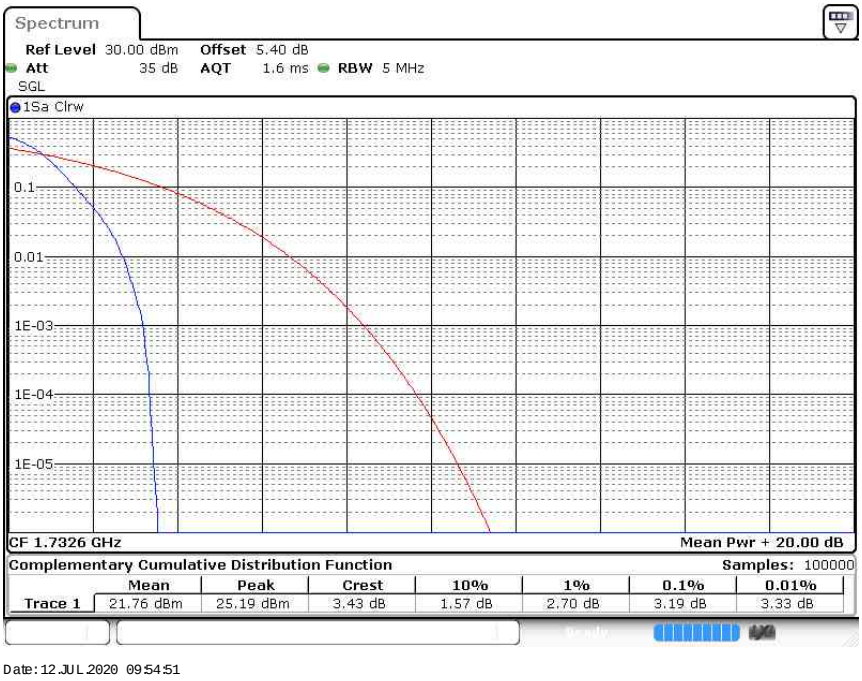

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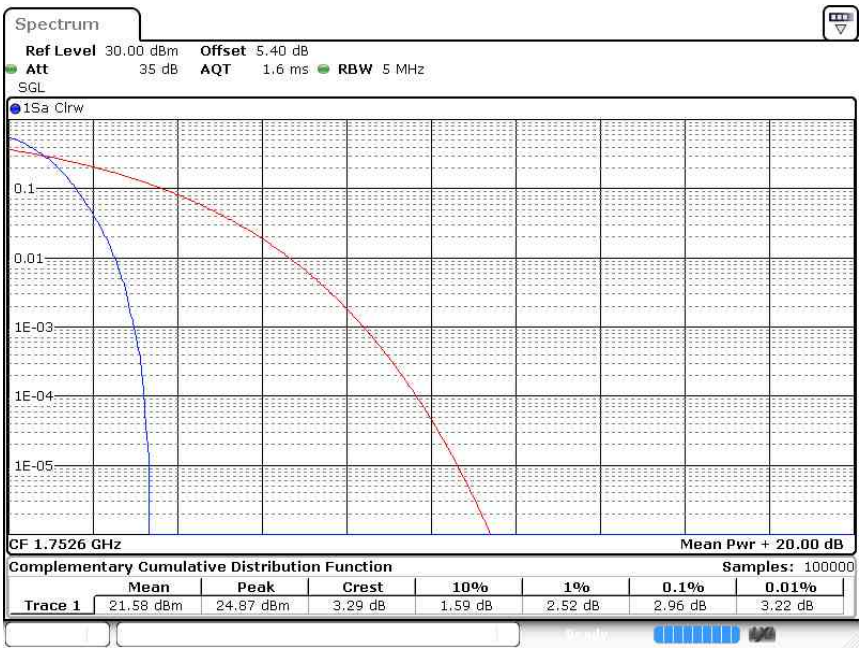

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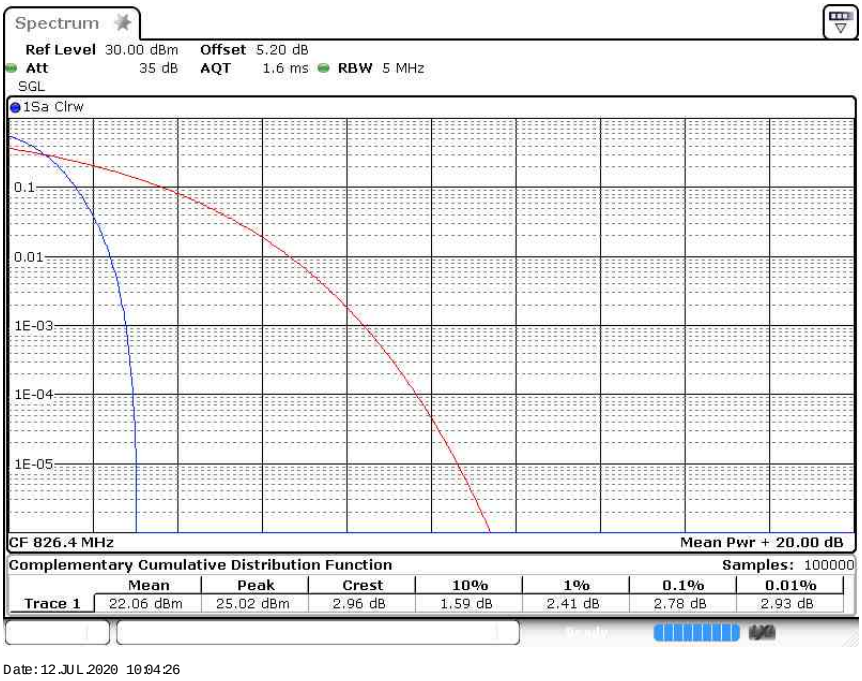

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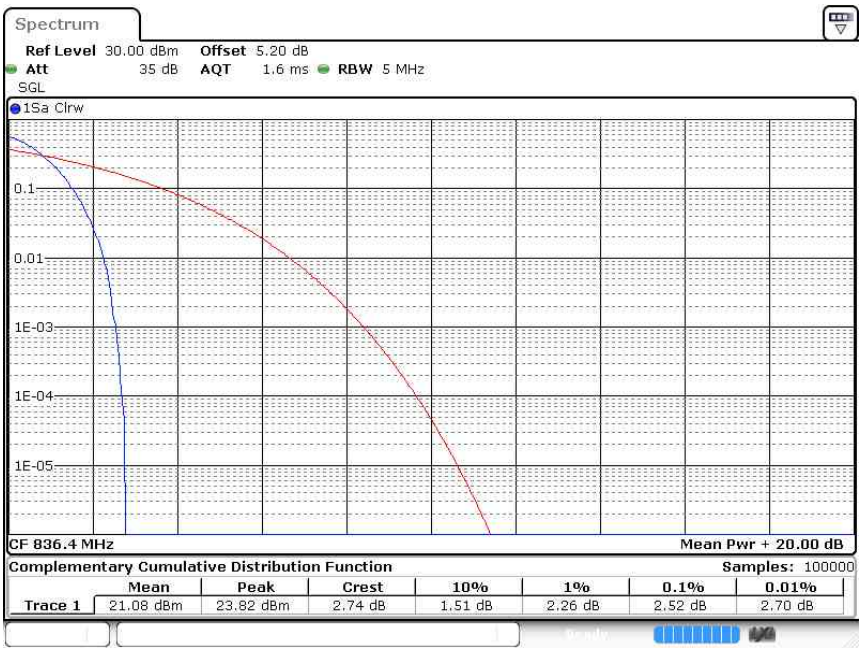

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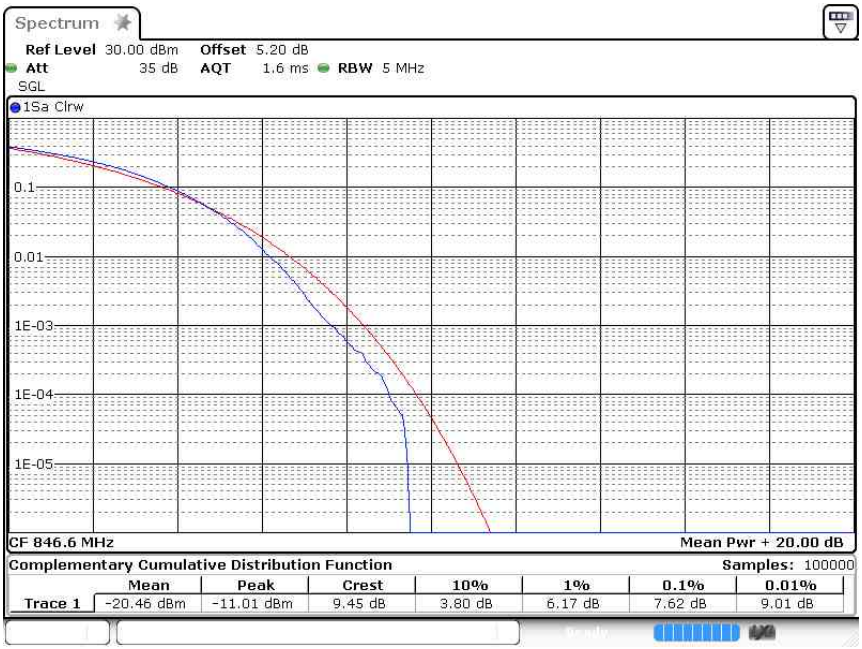

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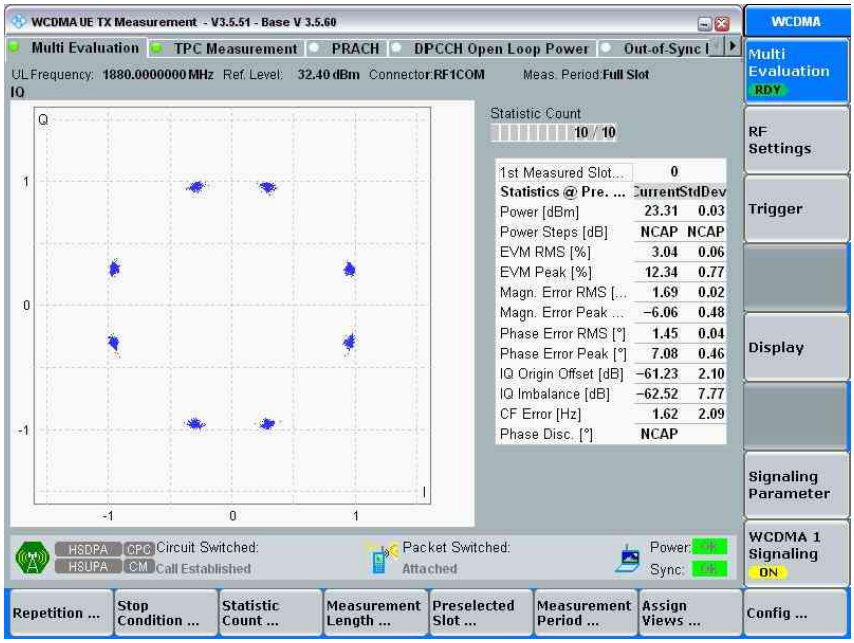
3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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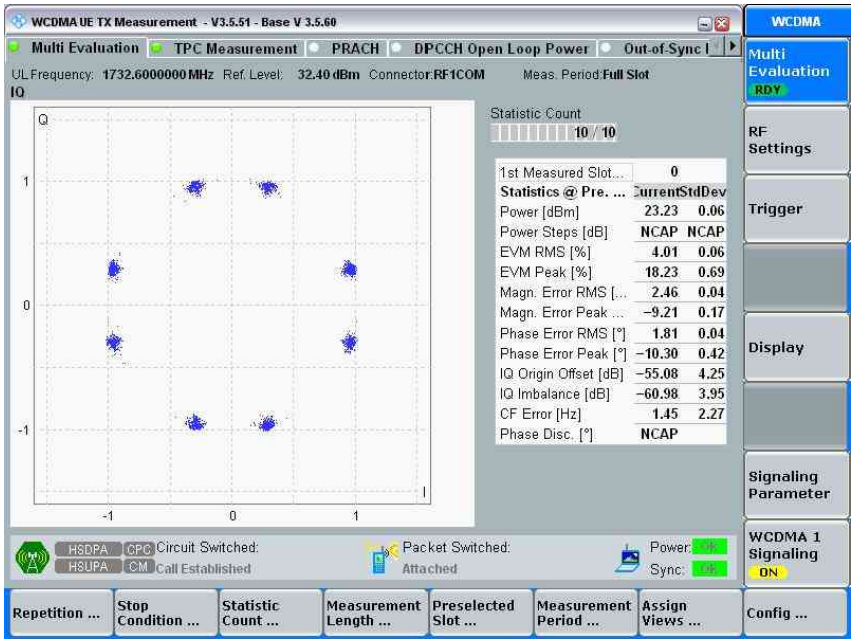
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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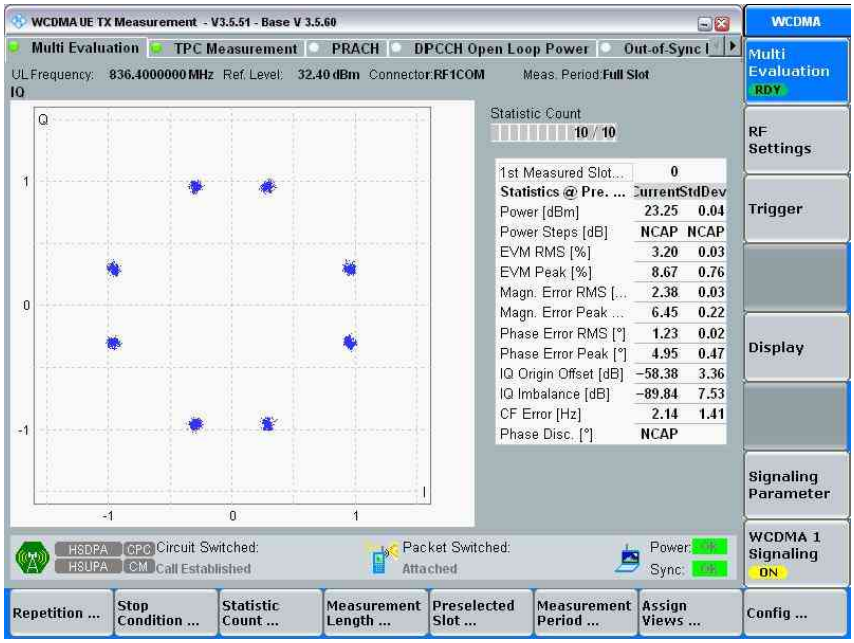
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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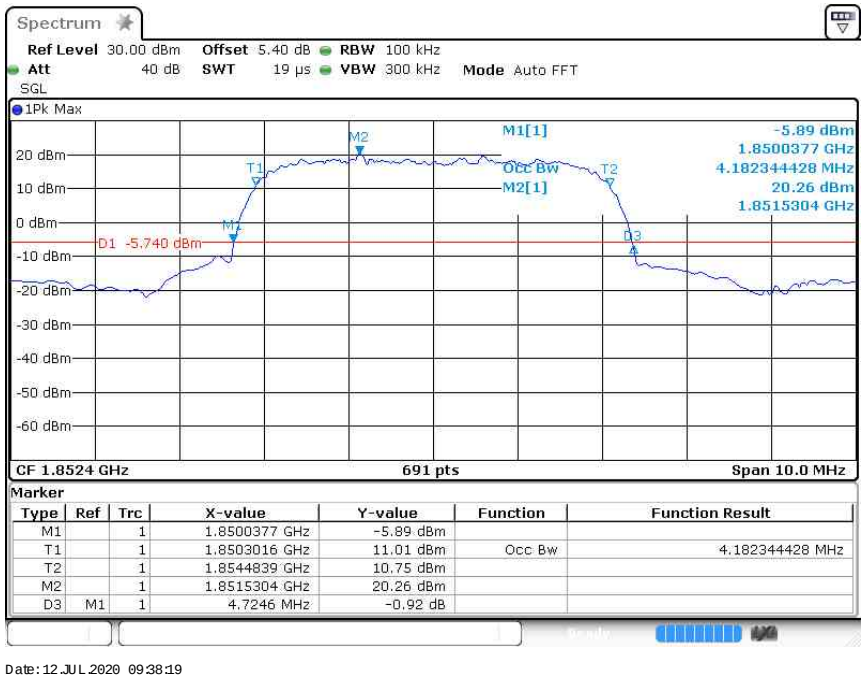
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4182.3	4725	---	PASS
Band II	9400	4167.9	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4182.3	4754	---	PASS
Band IV	1413	4167.9	4739	---	PASS
Band IV	1513	4182.3	4739	---	PASS
Band V	4132	4167.9	4754	---	PASS
Band V	4182	4167.9	4754	---	PASS
Band V	4233	4167.9	4768	---	PASS

4.2. Test Plots



Band II_9262

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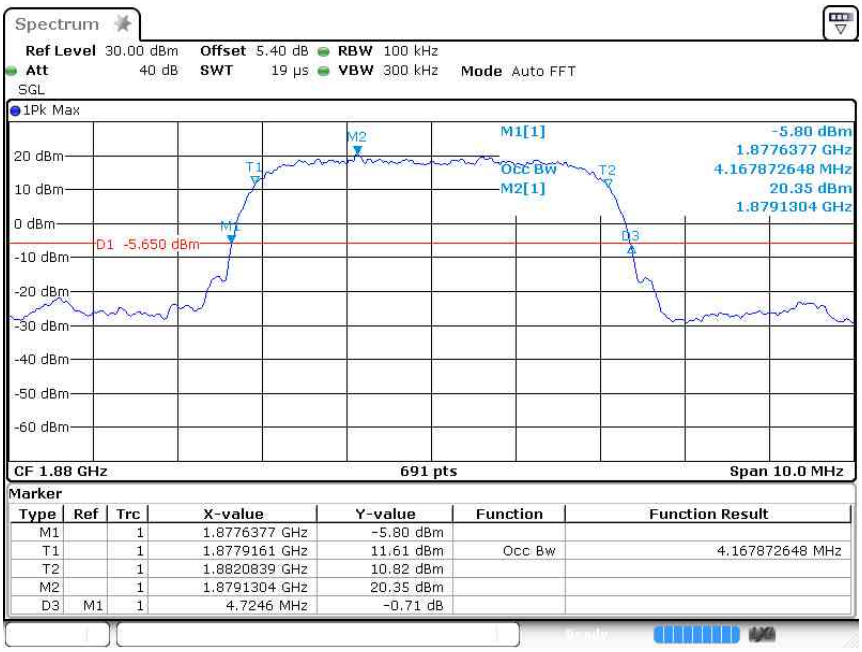
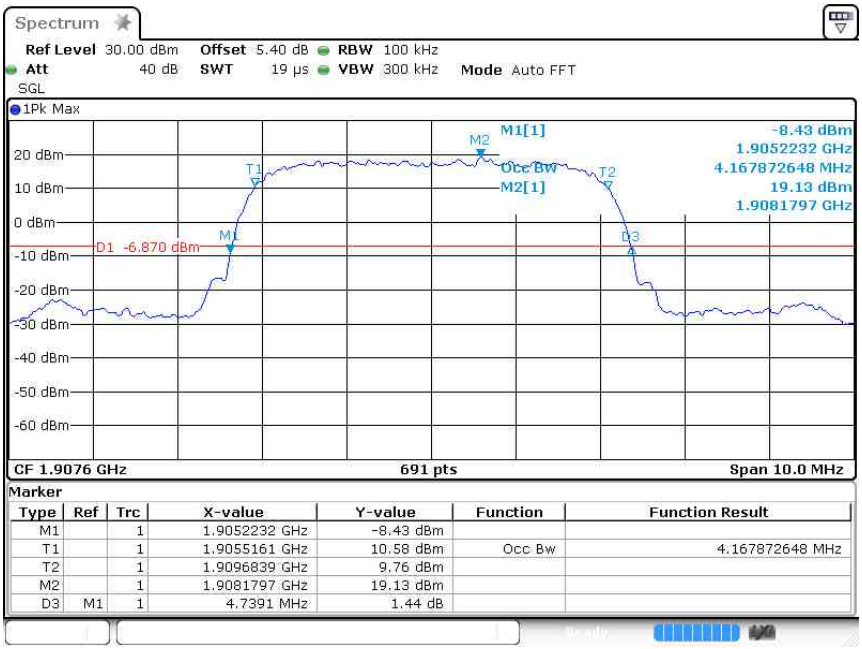


Band II_9400



Band II_9538

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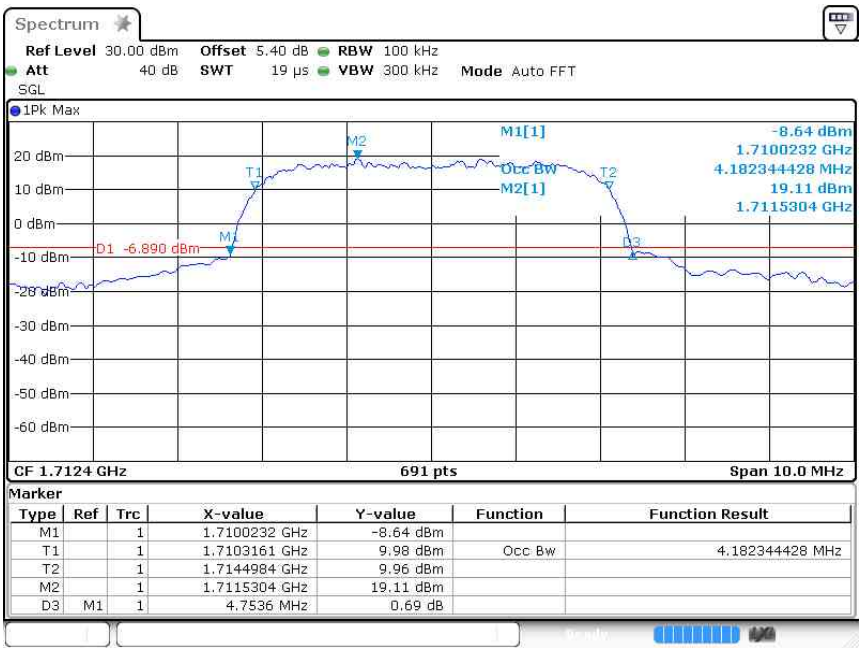
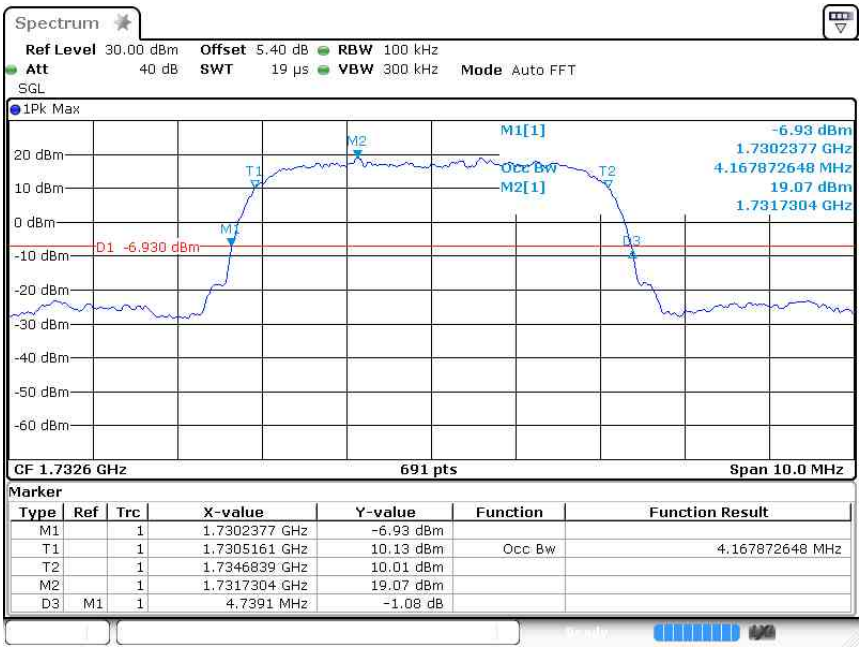


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.7100232 GHz	-8.64 dBm		
T1		1	1.7103161 GHz	9.98 dBm	Occ Bw	4.182344428 MHz
T2		1	1.7144984 GHz	9.96 dBm		
M2		1	1.7115304 GHz	19.11 dBm		
D3	M1	1	4.7536 MHz	0.69 dB		

Date: 12.JUL.2020 09:46:26

Band IV_1312



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.7302377 GHz	-6.93 dBm		
T1		1	1.7305161 GHz	10.13 dBm	Occ Bw	4.167872648 MHz
T2		1	1.7346839 GHz	10.01 dBm		
M2		1	1.7317304 GHz	19.07 dBm		
D3	M1	1	4.7391 MHz	-1.08 dB		

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Band IV_1413

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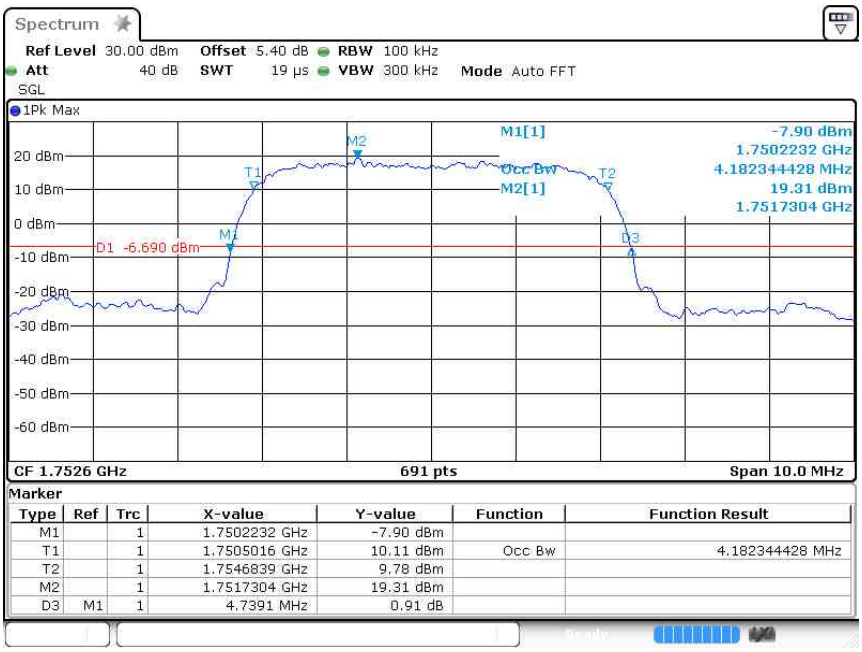
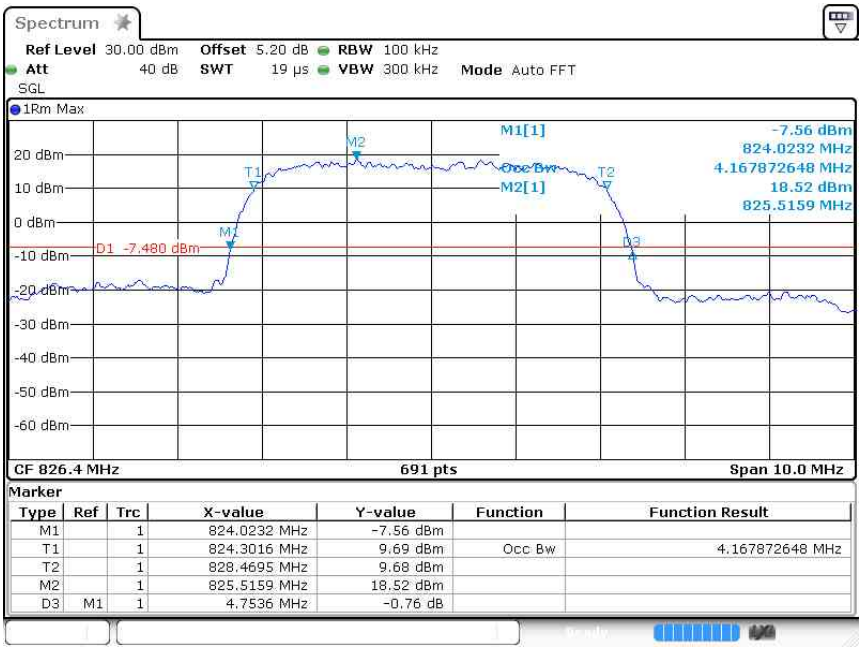


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.7502232 GHz	-7.90 dBm		
T1		1	1.7505016 GHz	10.11 dBm	Occ Bw	4.182344428 MHz
T2		1	1.7546839 GHz	9.78 dBm		
M2		1	1.7517304 GHz	19.31 dBm		
D3	M1	1	4.7391 MHz	0.91 dB		

Date: 12.JUL.2020 09:47:15

Band IV_1513



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.0232 MHz	-7.56 dBm		
T1		1	824.3016 MHz	9.69 dBm	Occ Bw	4.167872648 MHz
T2		1	828.4695 MHz	9.68 dBm		
M2		1	825.5159 MHz	18.52 dBm		
D3	M1	1	4.7536 MHz	-0.76 dB		

Date: 12.JUL.2020 09:59:50

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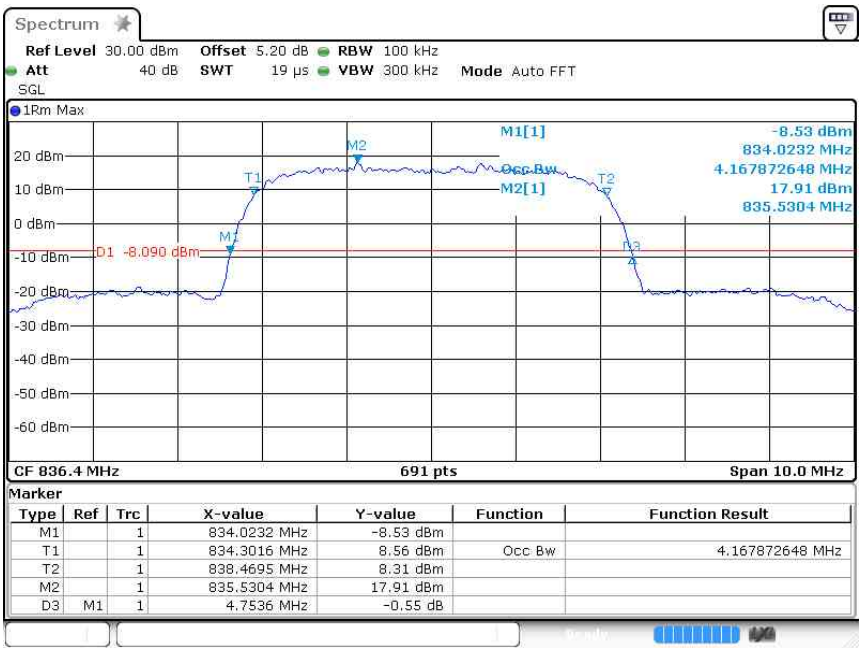

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.0232 MHz	-8.53 dBm		
T1		1	834.3016 MHz	8.56 dBm	Occ Bw	4.167872648 MHz
T2		1	838.4695 MHz	8.31 dBm		
M2		1	835.5304 MHz	17.91 dBm		
D3	M1	1	4.7536 MHz	-0.55 dB		

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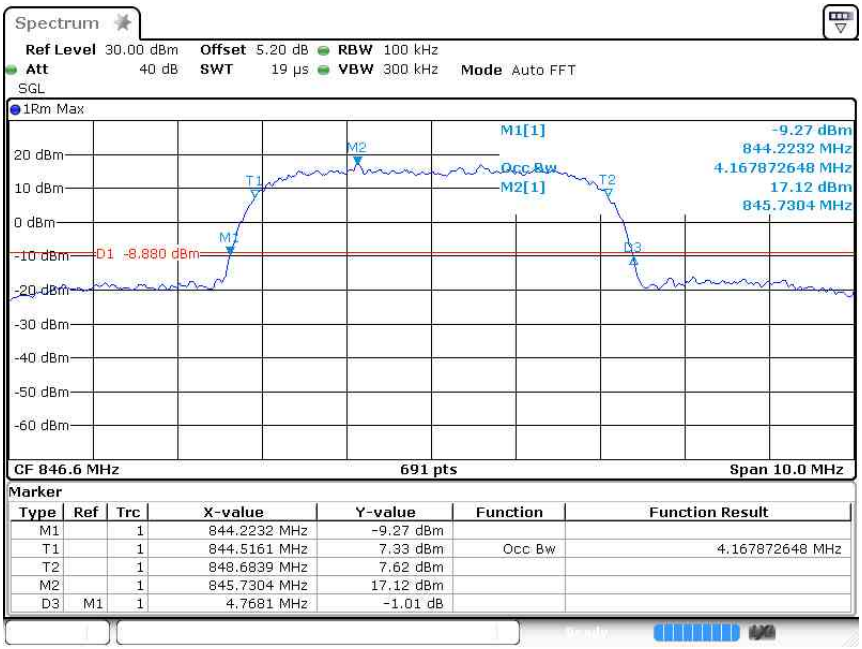
Band V_4182



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	844.2232 MHz	-9.27 dBm		
T1		1	844.5161 MHz	7.33 dBm	Occ Bw	4.167872648 MHz
T2		1	848.6839 MHz	7.62 dBm		
M2		1	845.7304 MHz	17.12 dBm		
D3	M1	1	4.7681 MHz	-1.01 dB		

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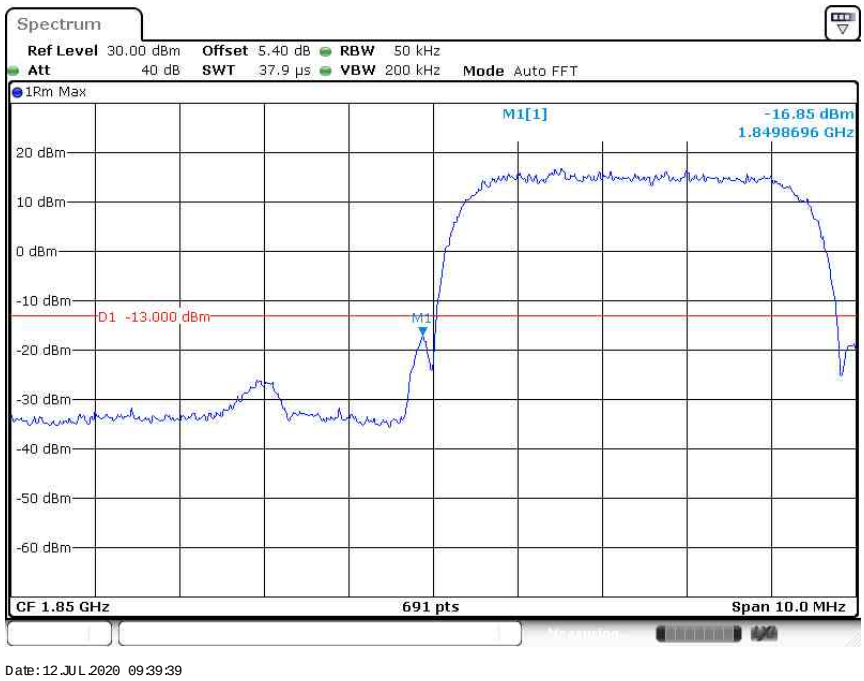
5. Band Edge Compliance

5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-16.85	-13	PASS
Band II	9538	-19.38	-13	PASS
Band IV	1312	-15.54	-13	PASS
Band IV	1513	-19.71	-13	PASS
Band V	4132	-16.55	-13	PASS
Band V	4233	-16.40	-13	PASS

5.2. Test Plots



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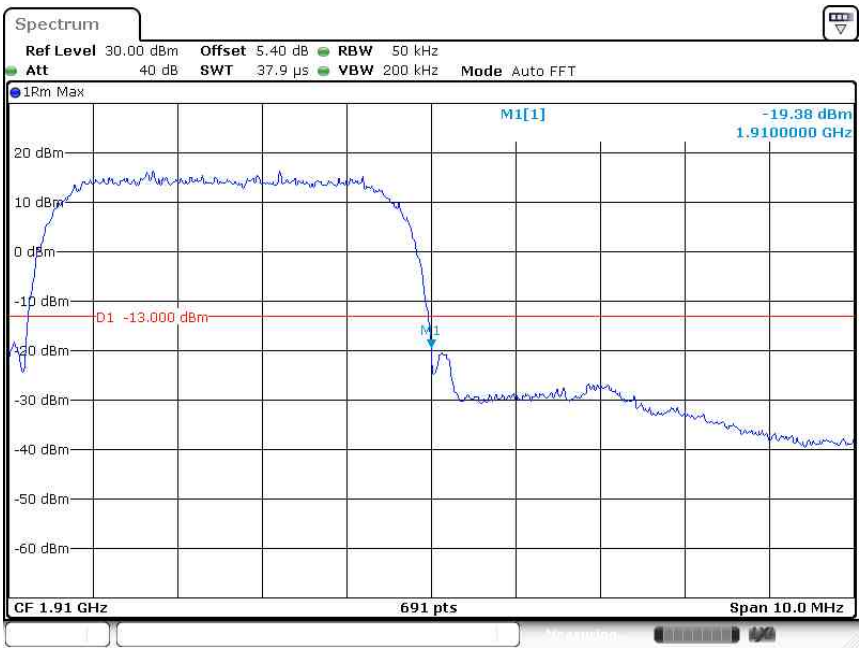
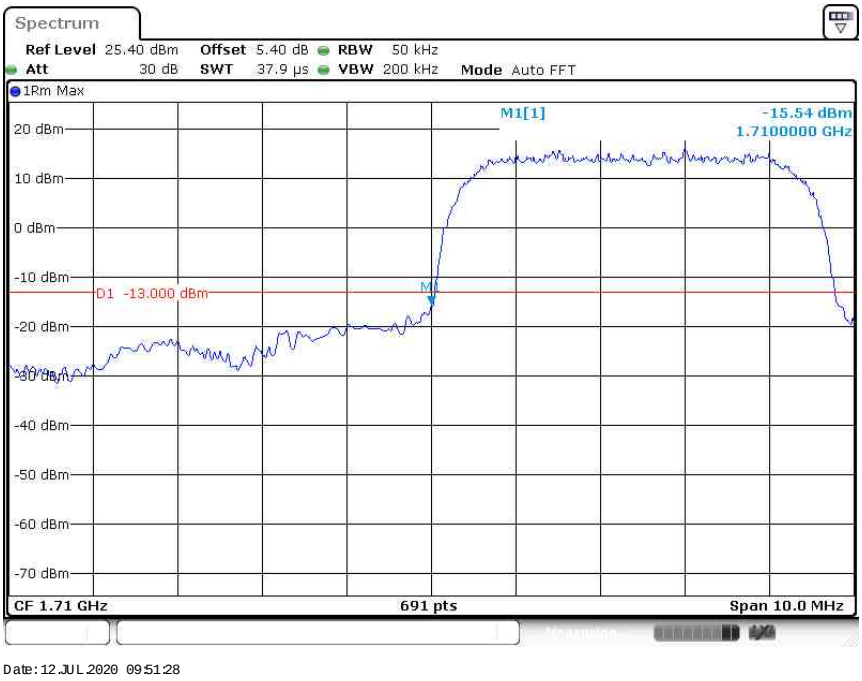


Band II_9538



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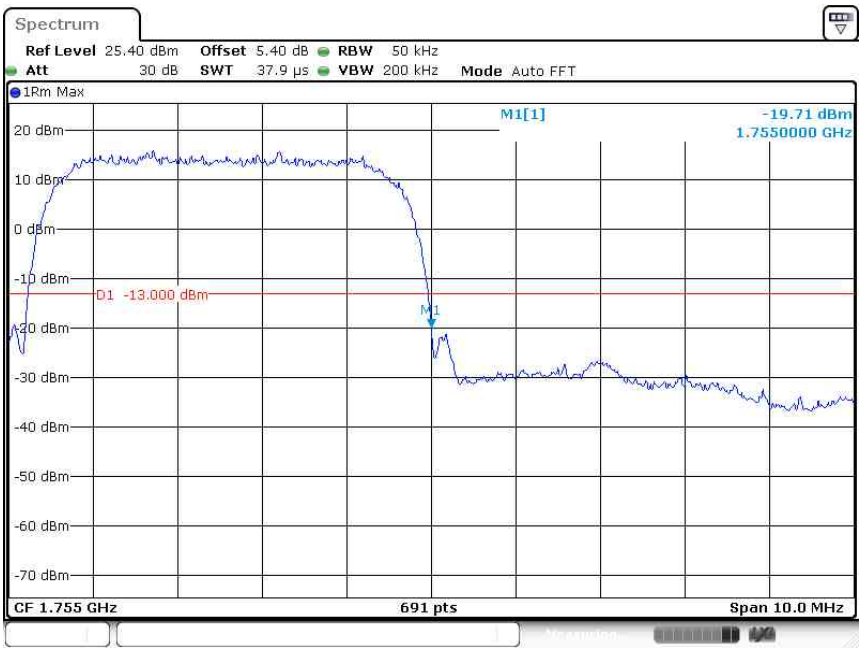

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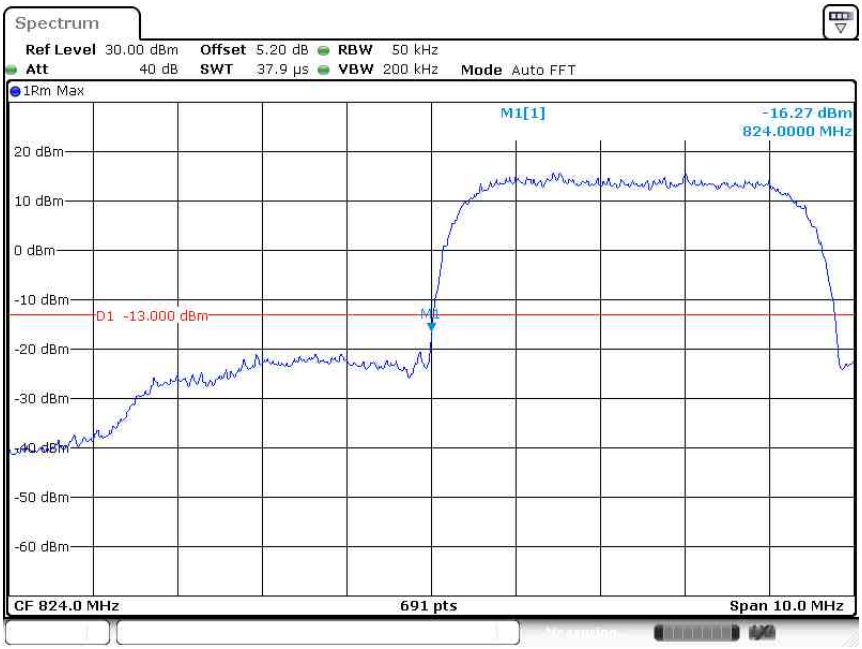
Band IV_1513



Date: 12.JUL.2020 10:01:07

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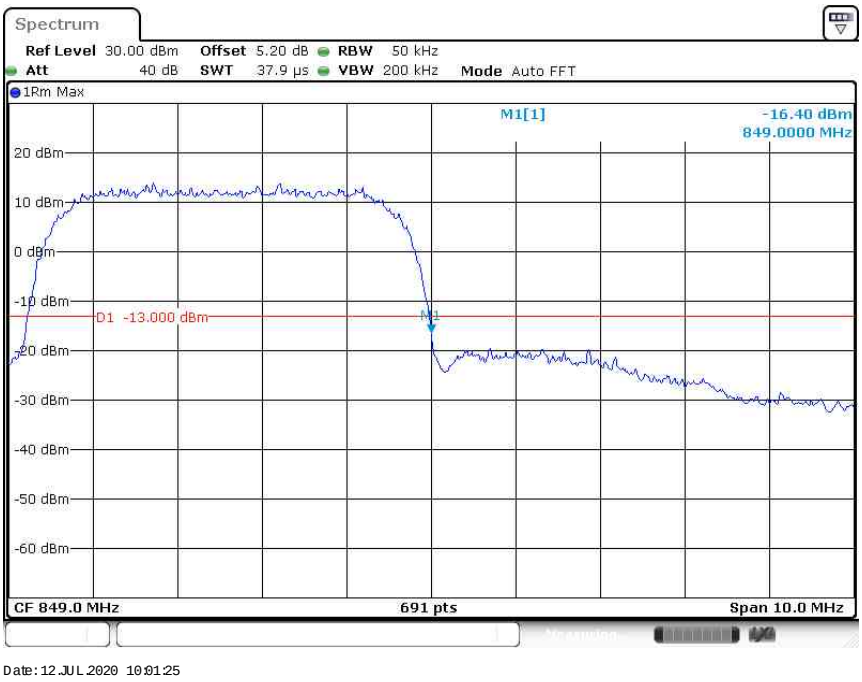

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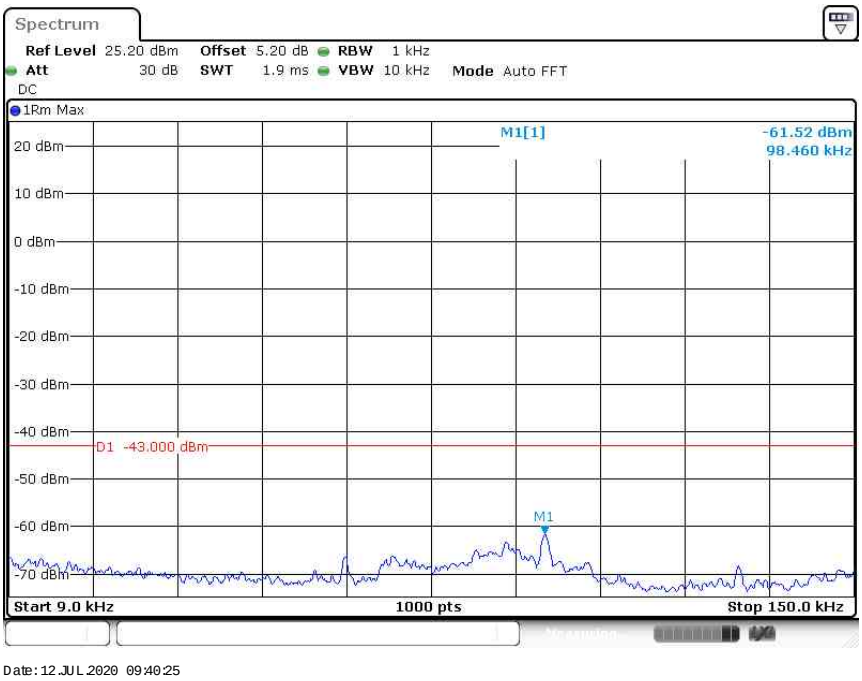
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots



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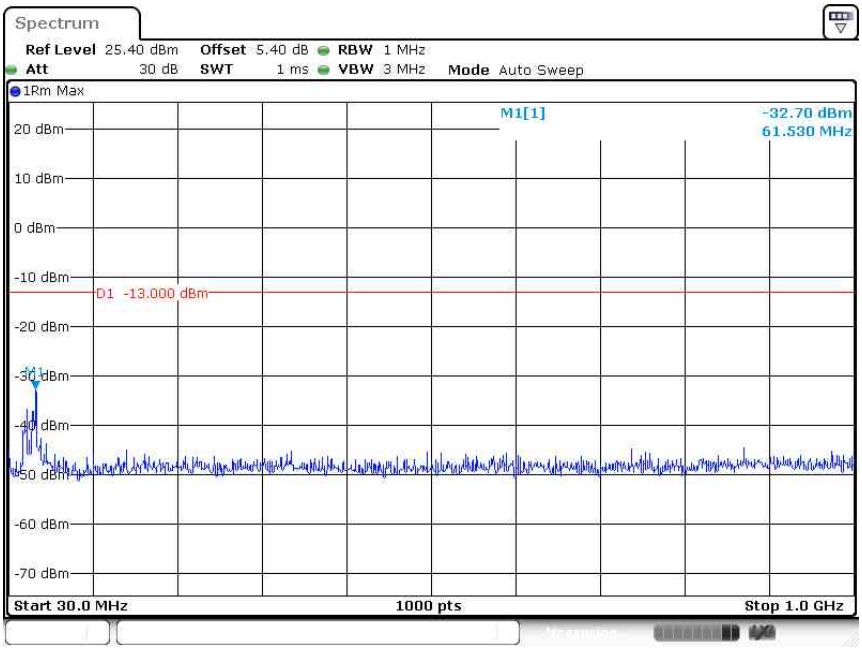

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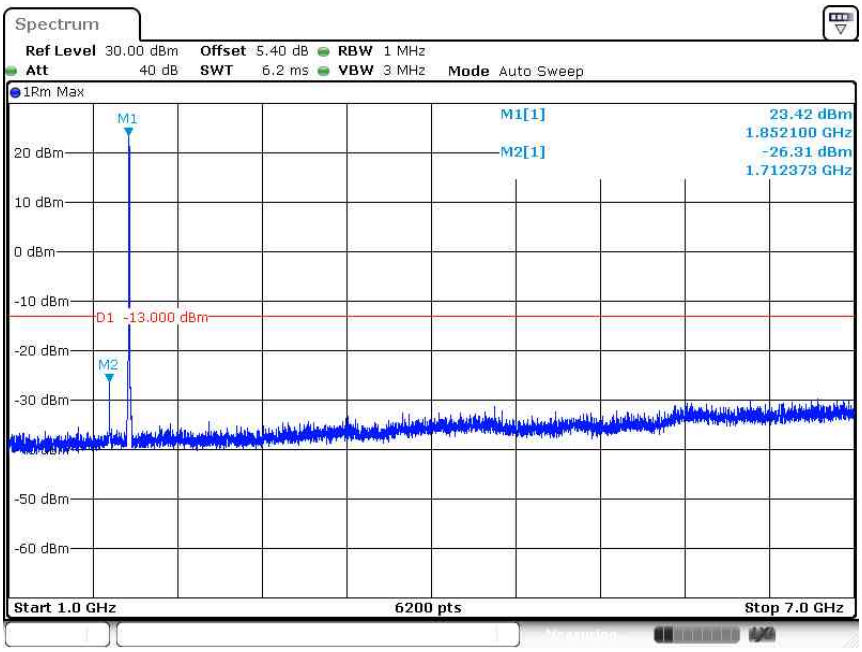

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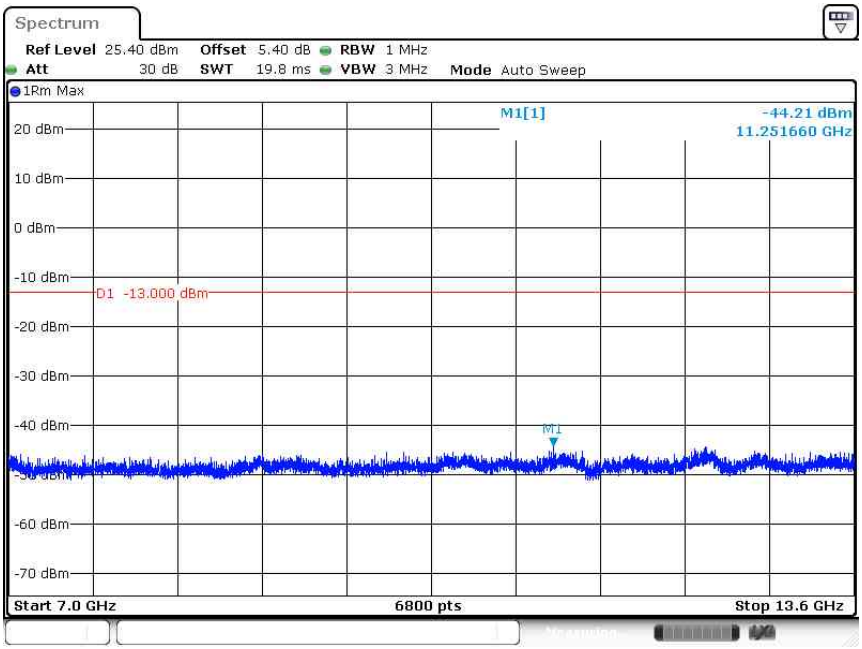

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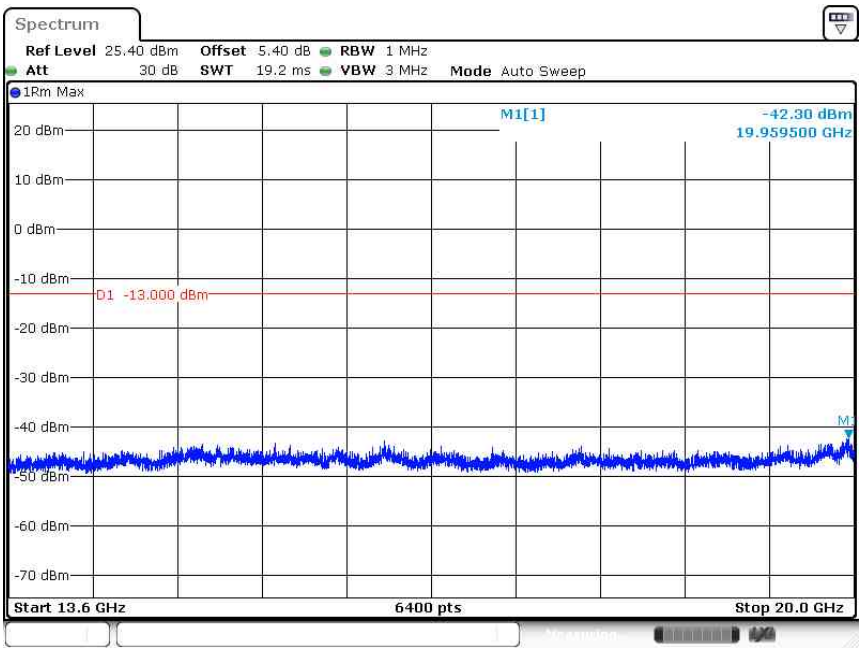

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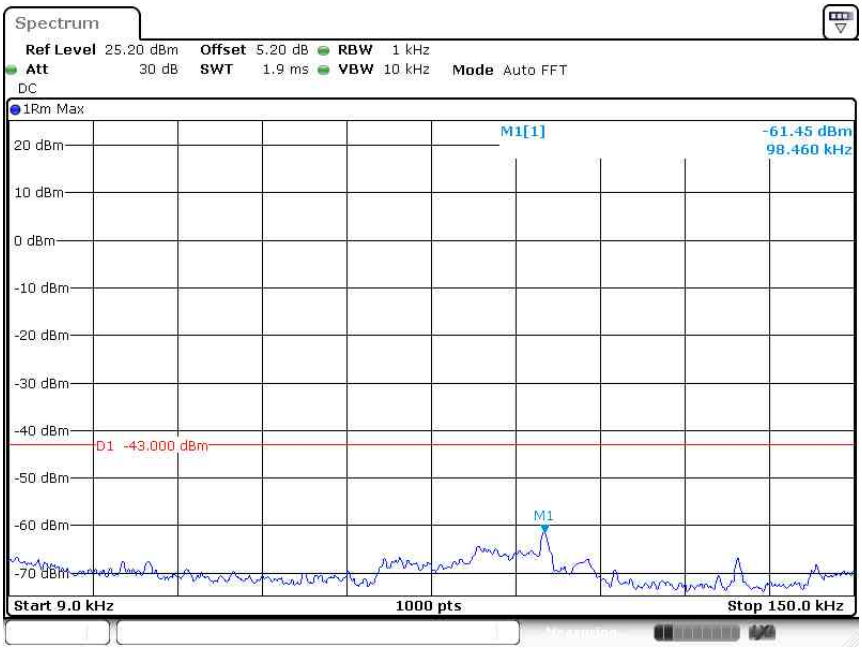

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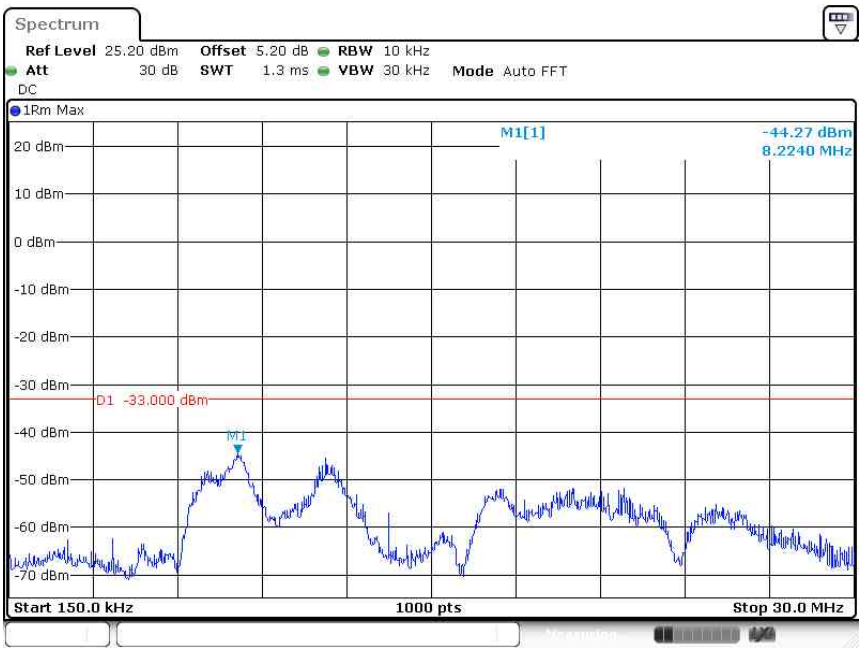

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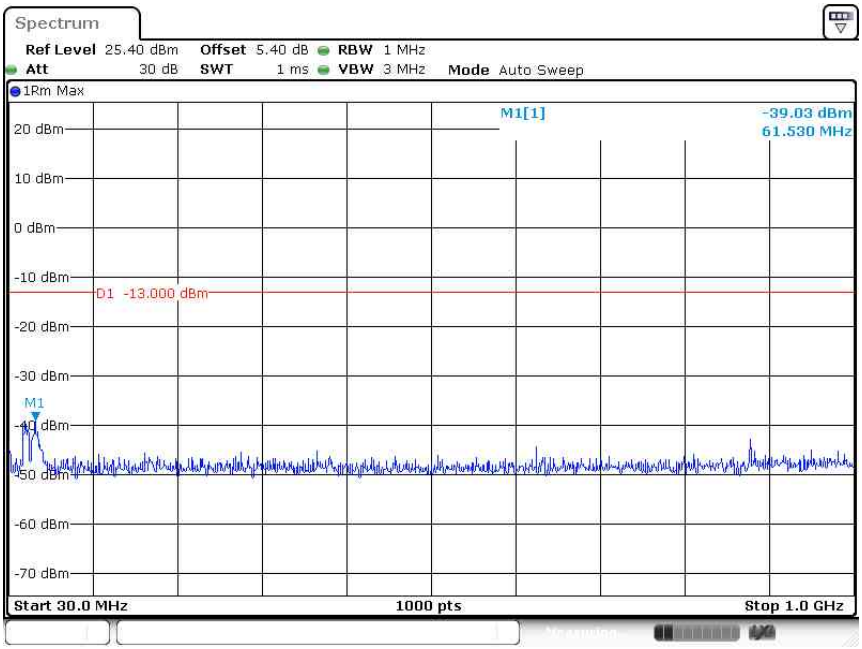

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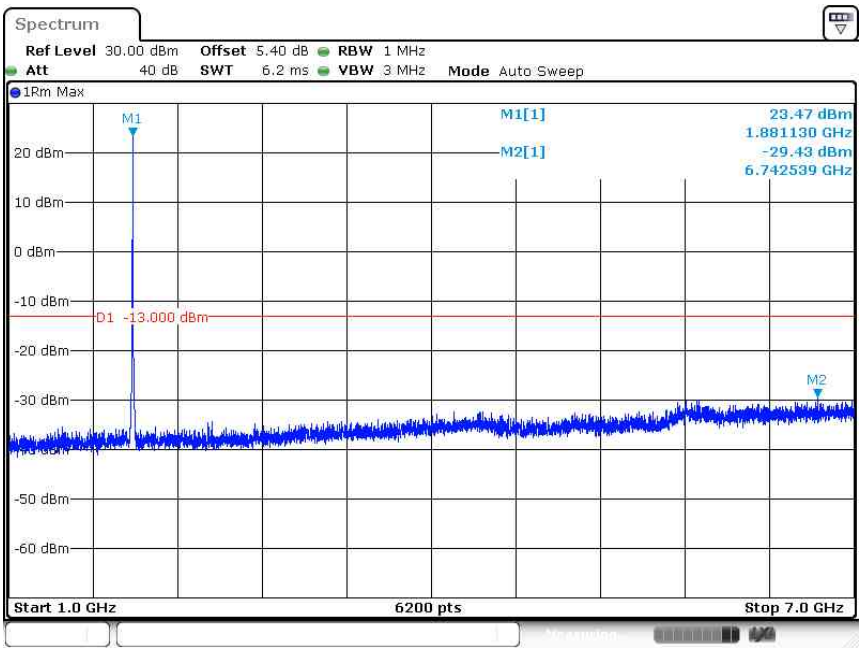

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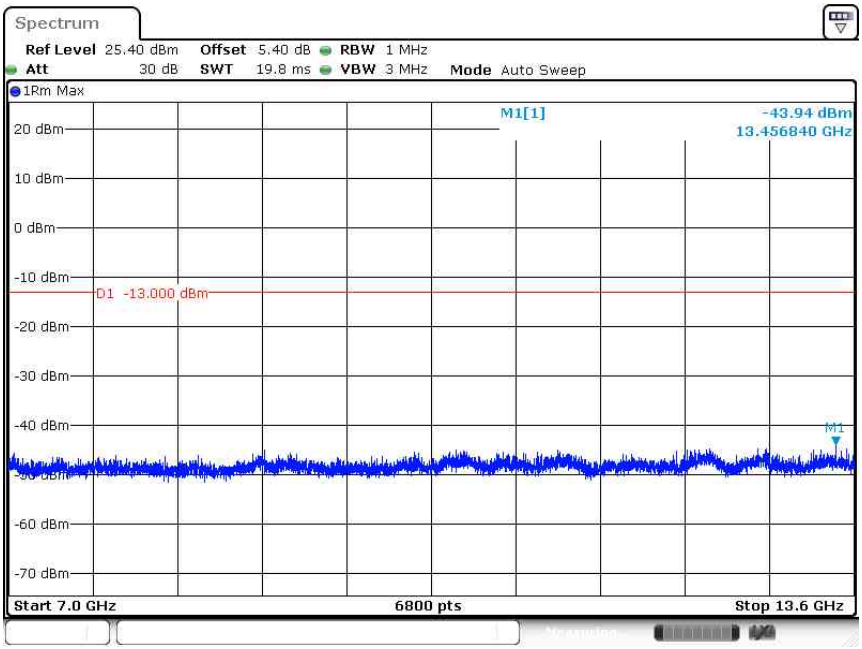

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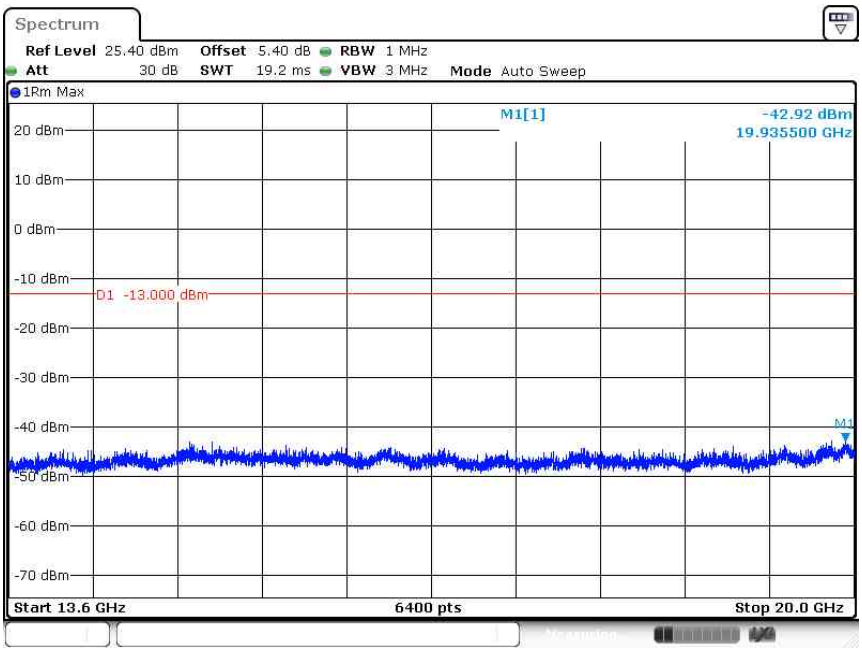

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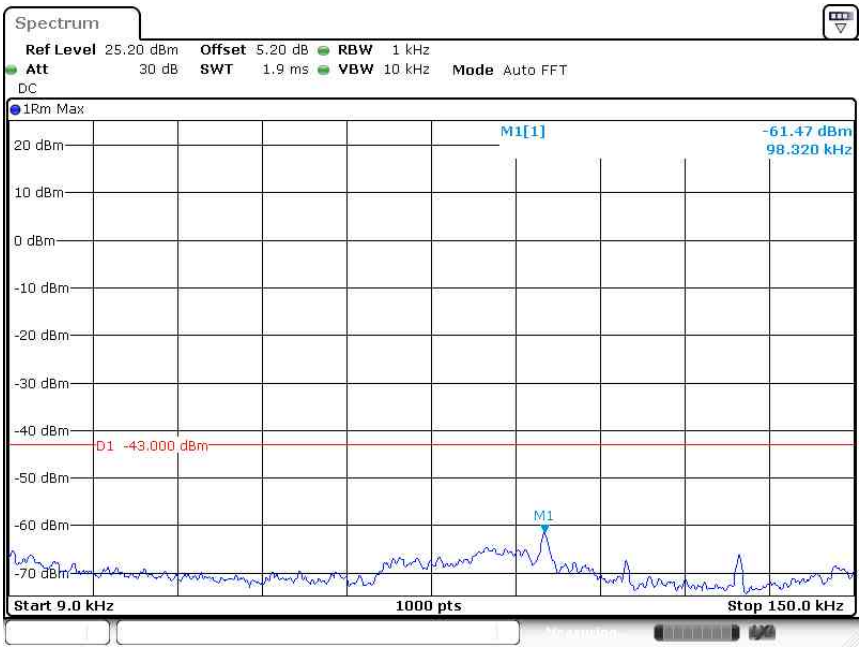

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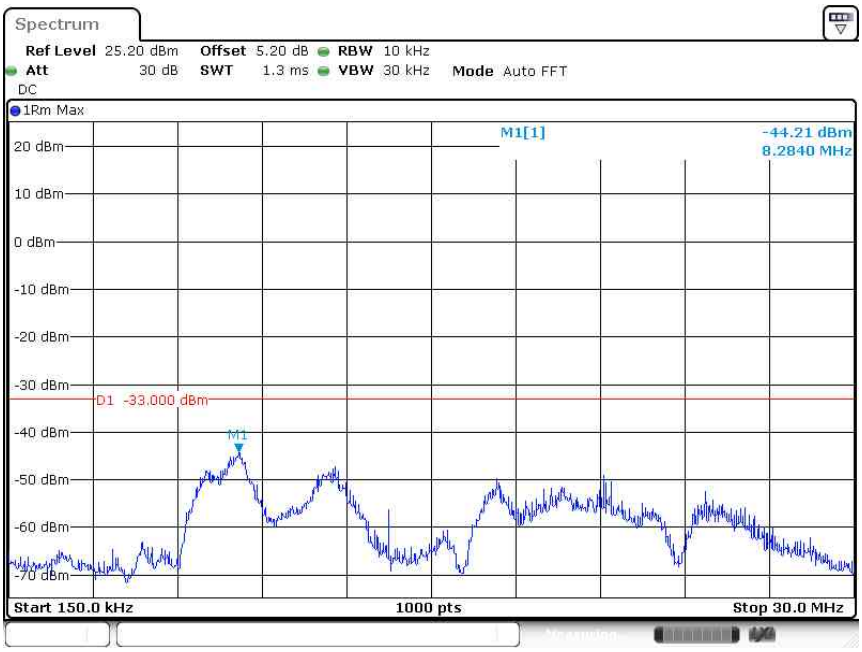

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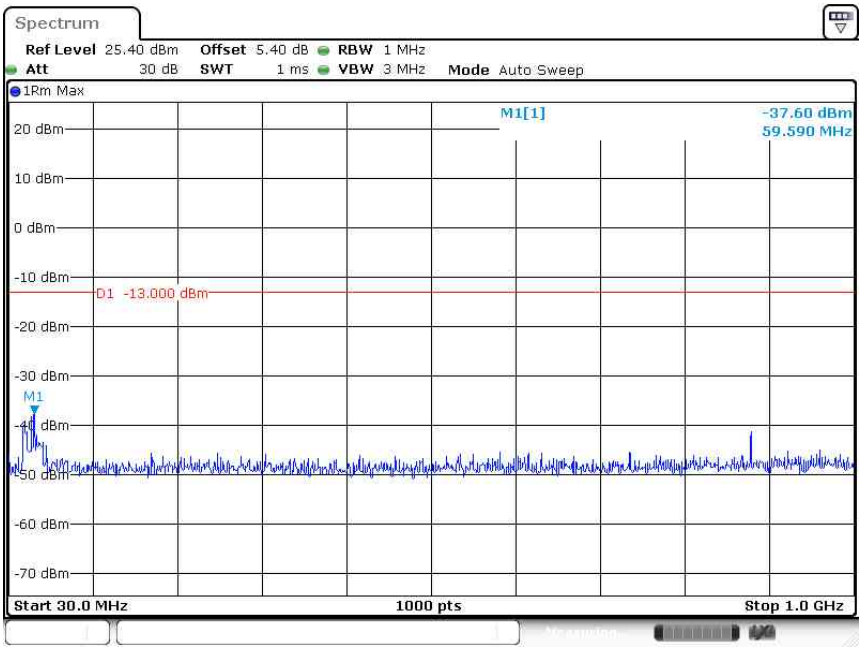

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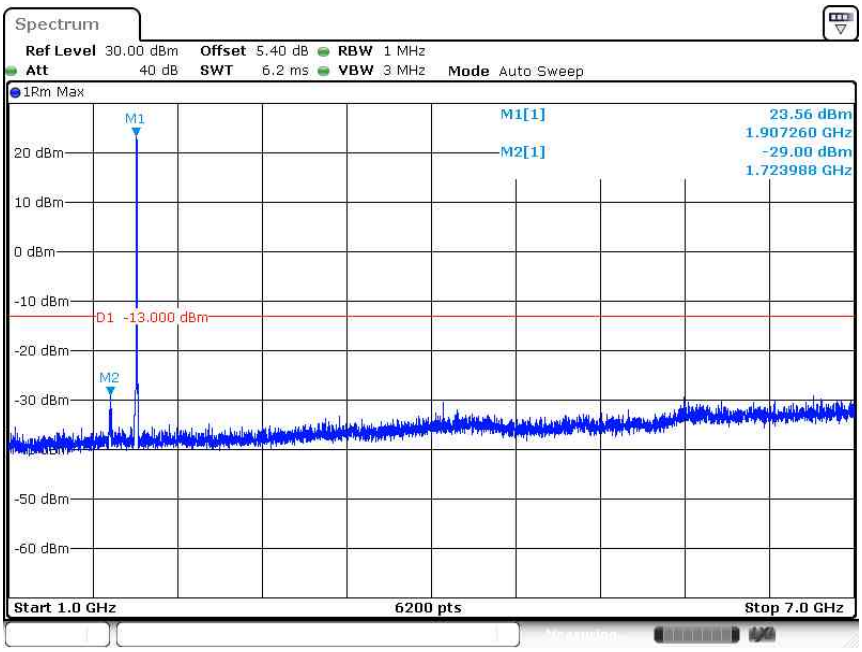

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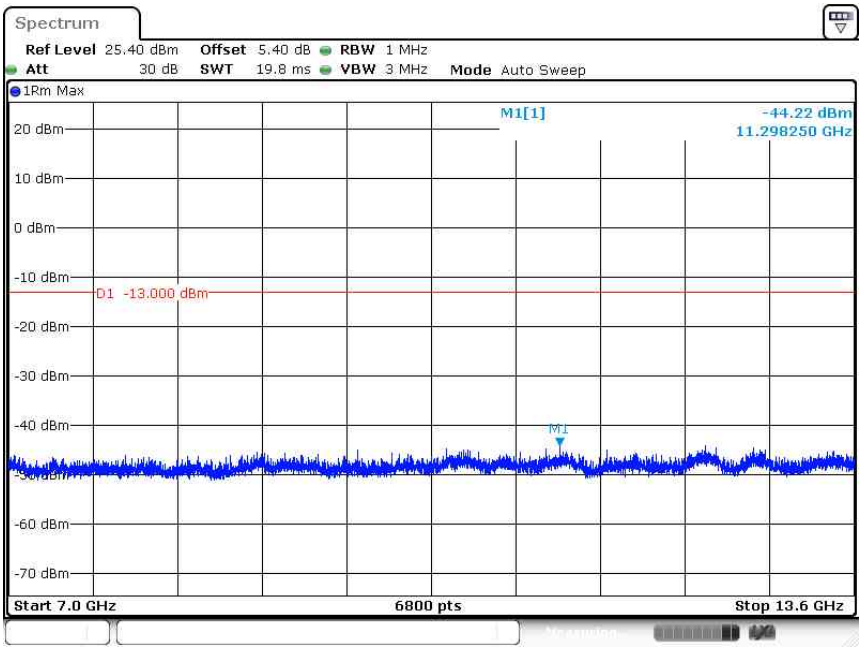

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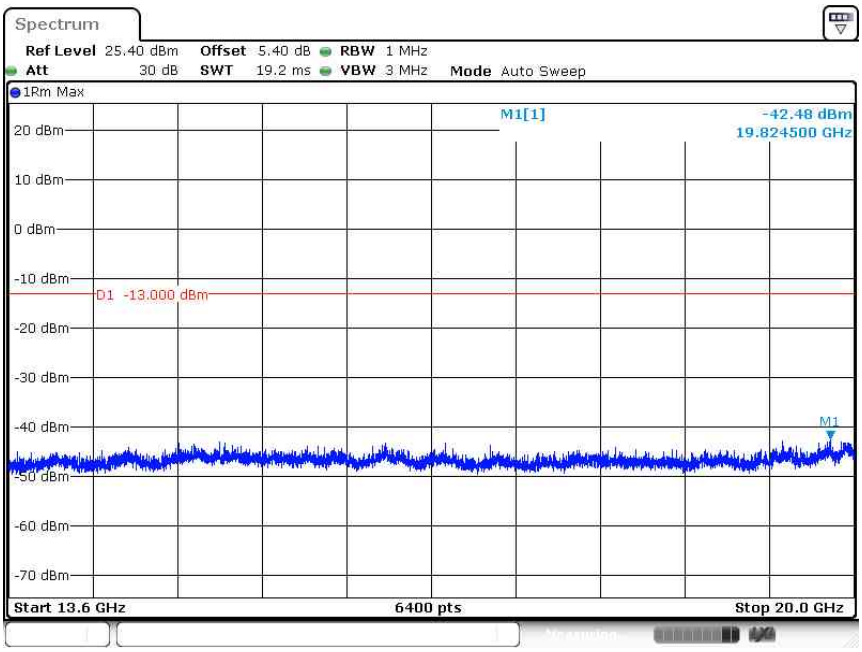

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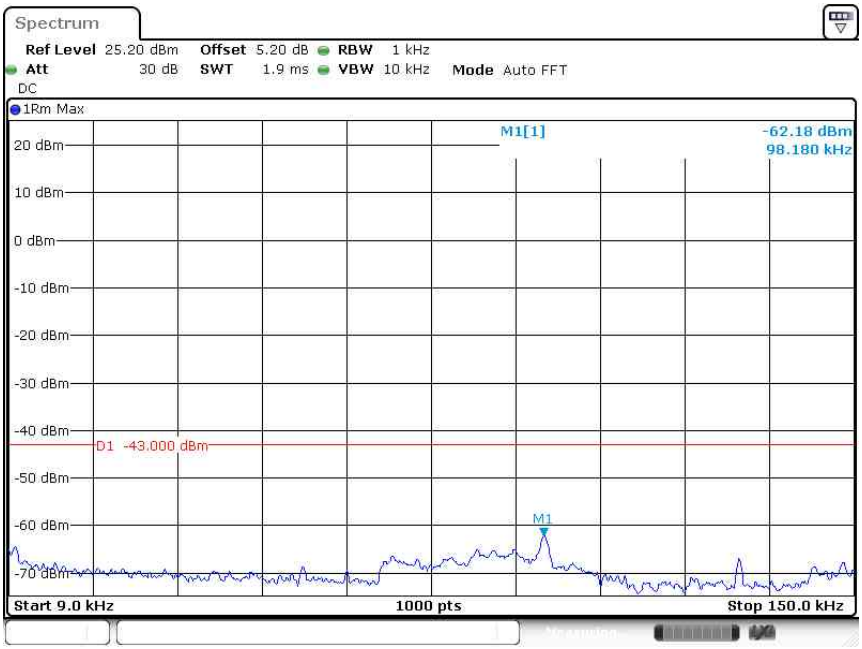

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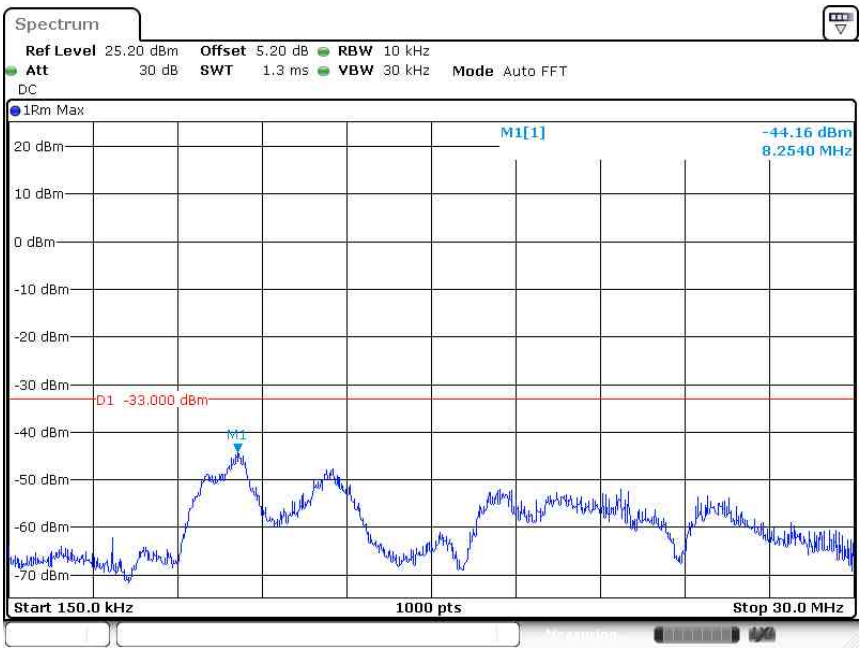

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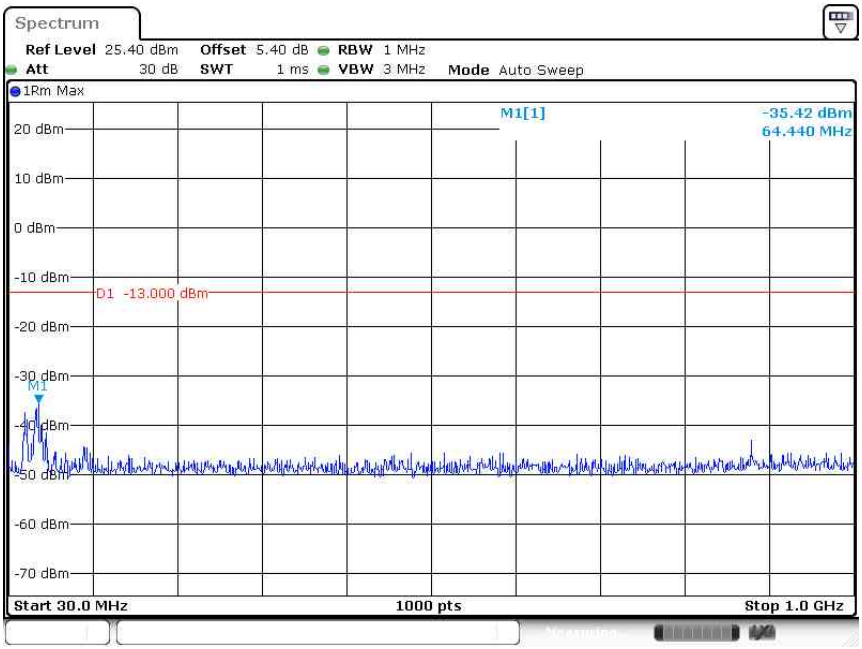

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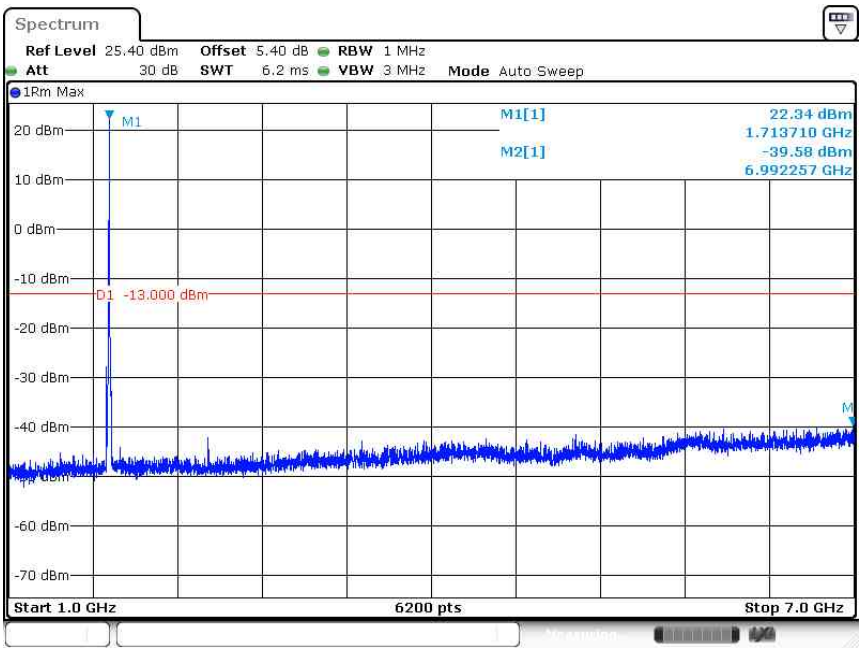

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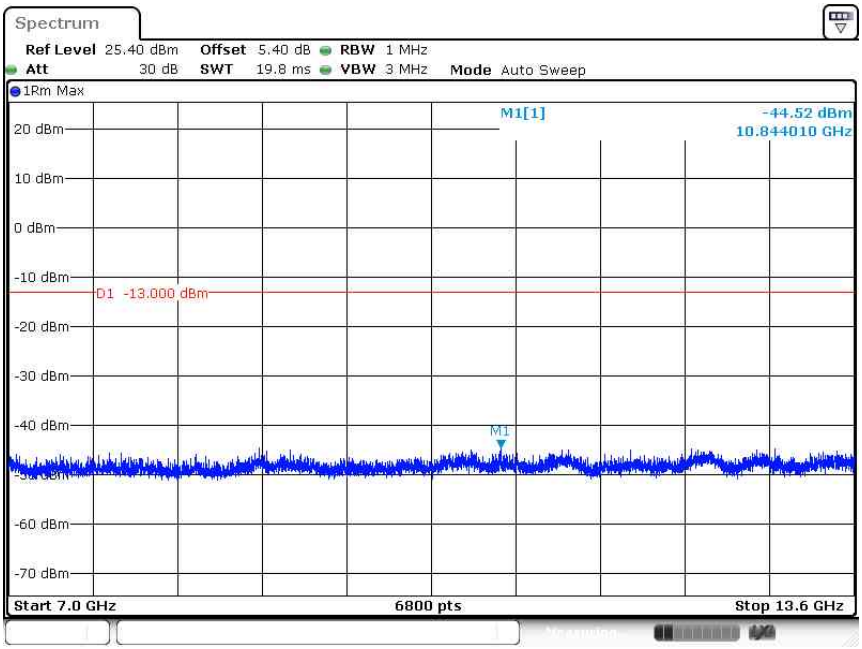

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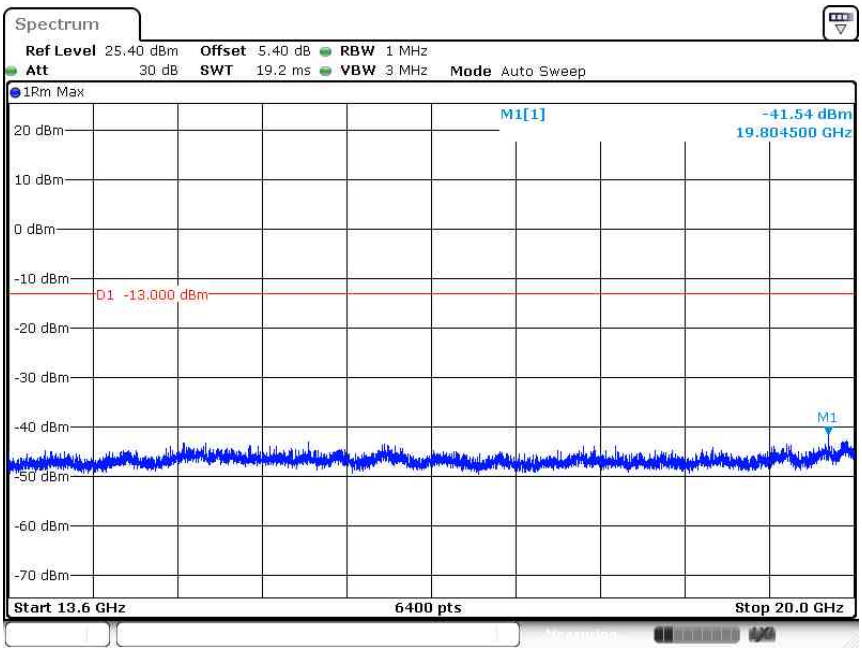

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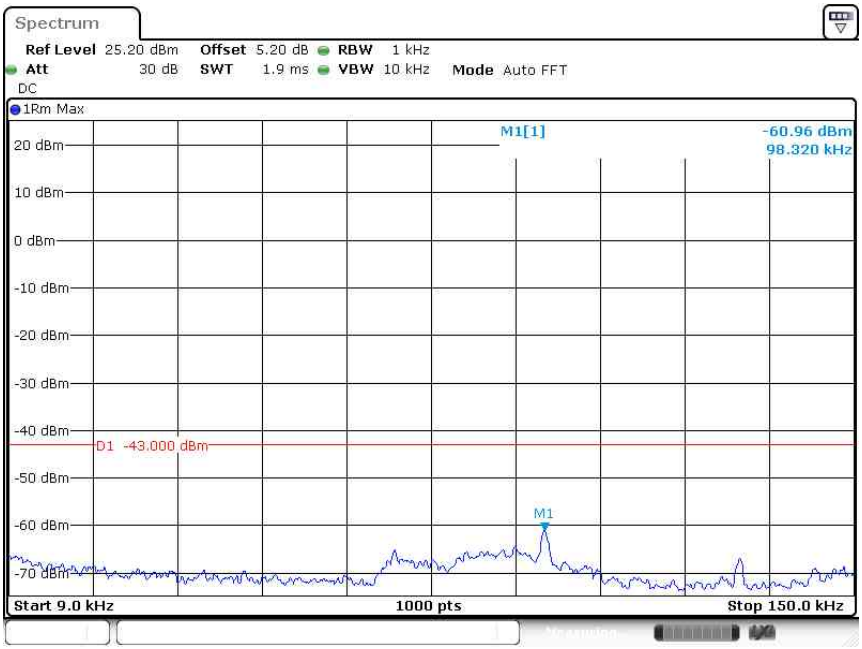

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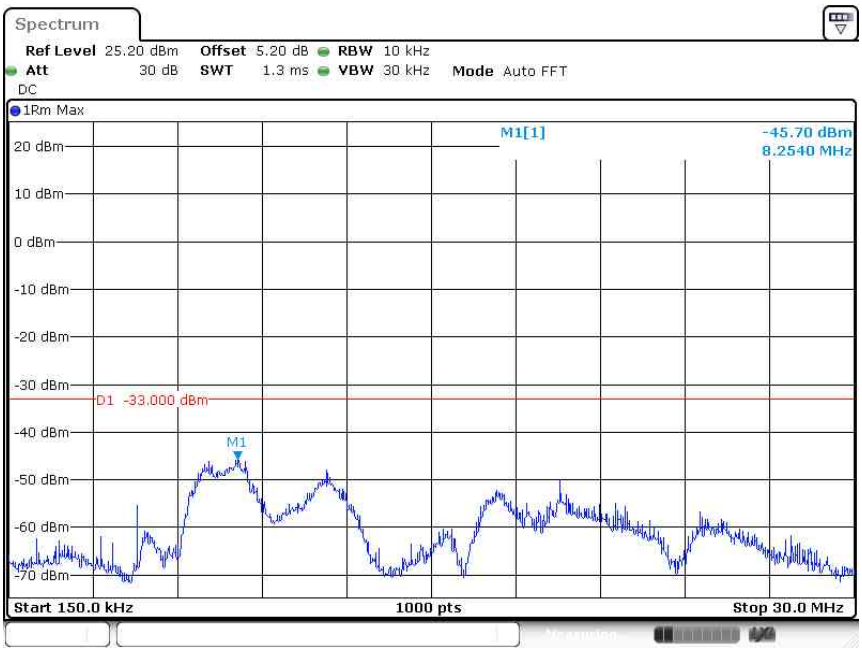

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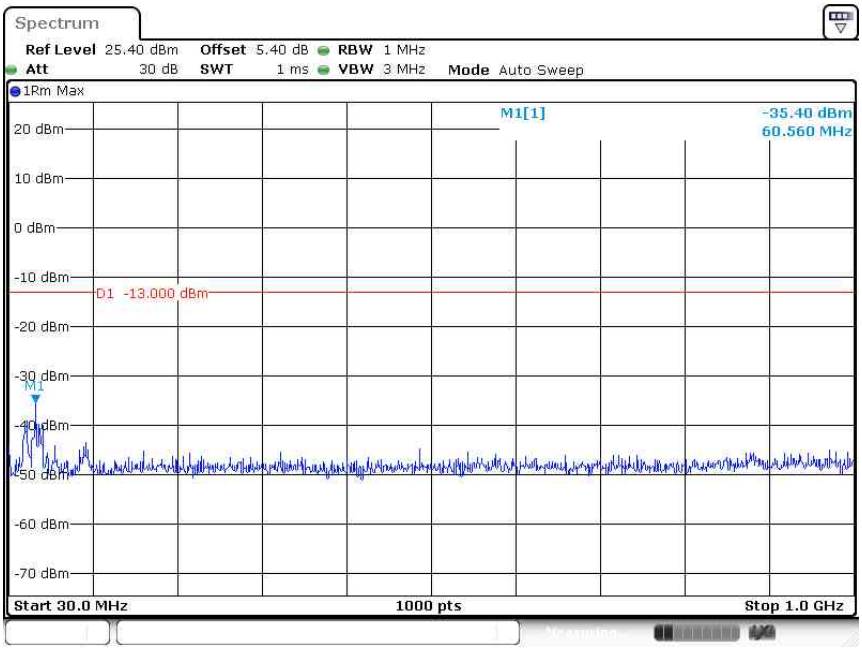

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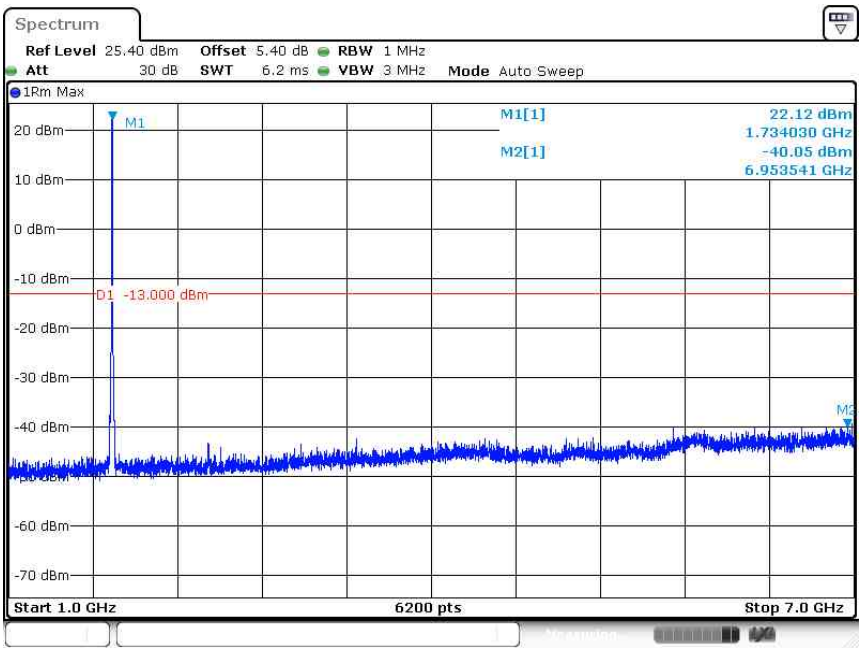

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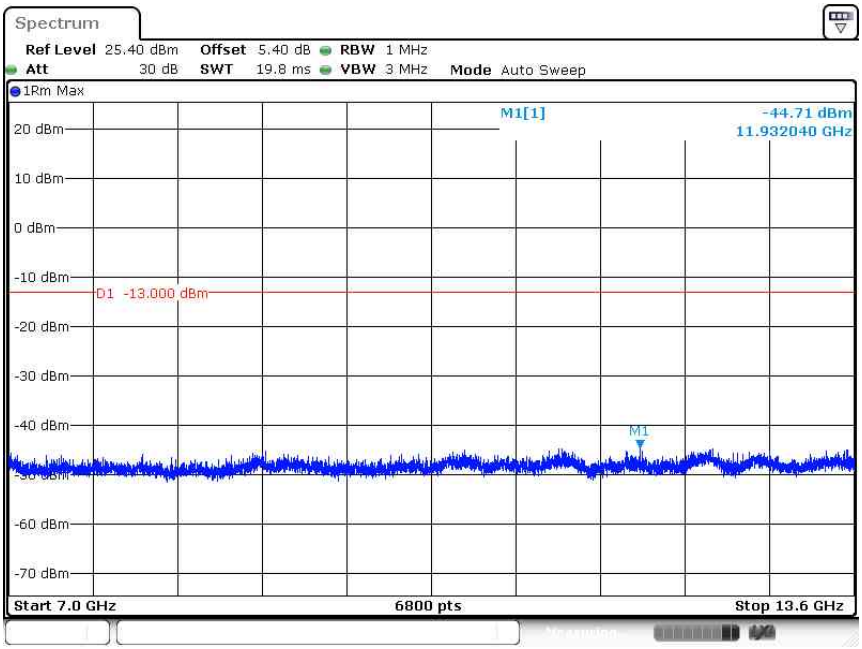

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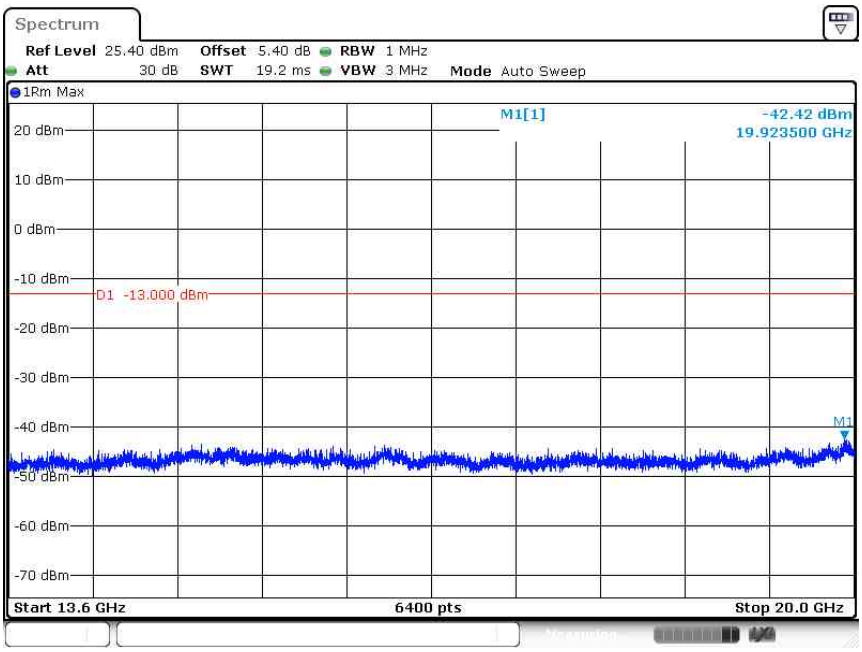

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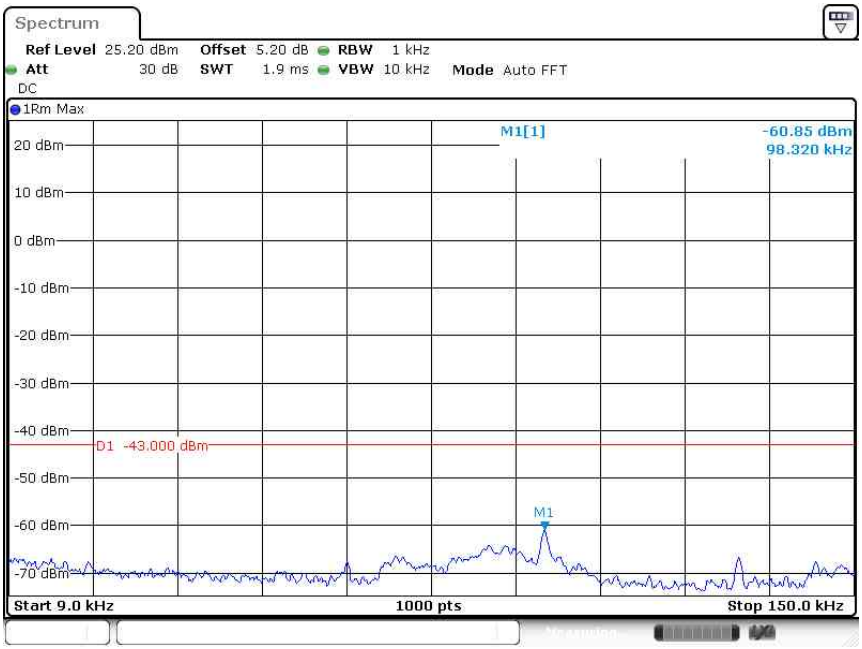

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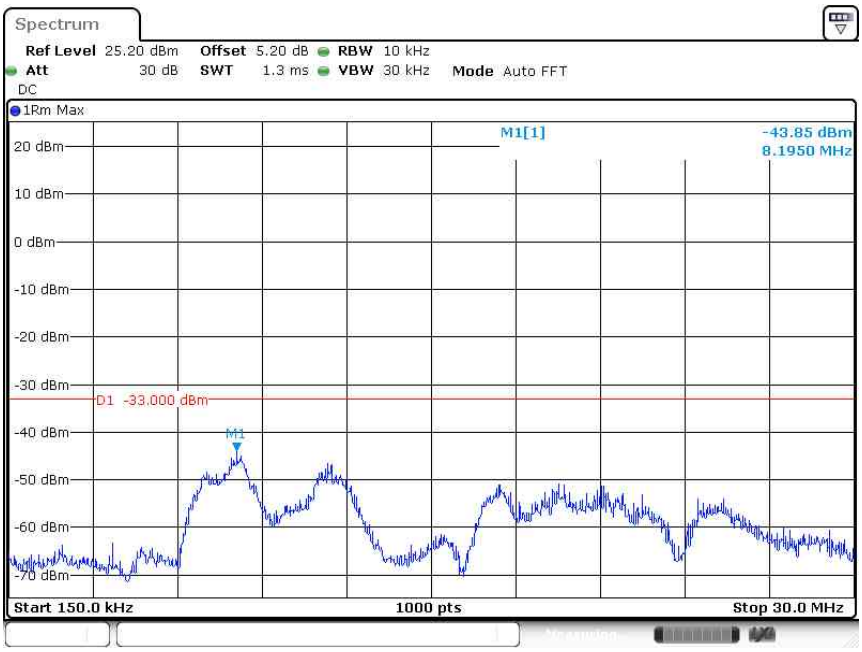

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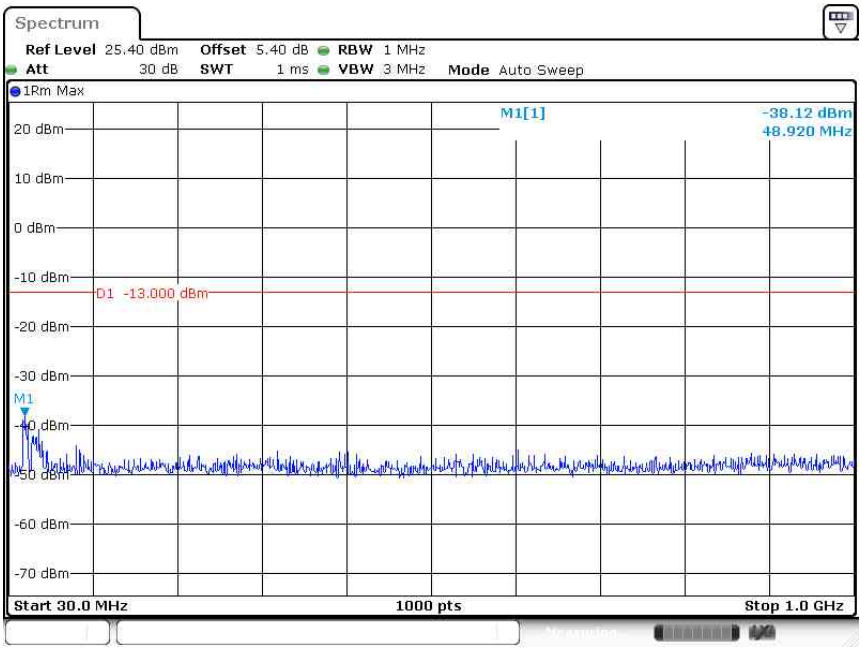

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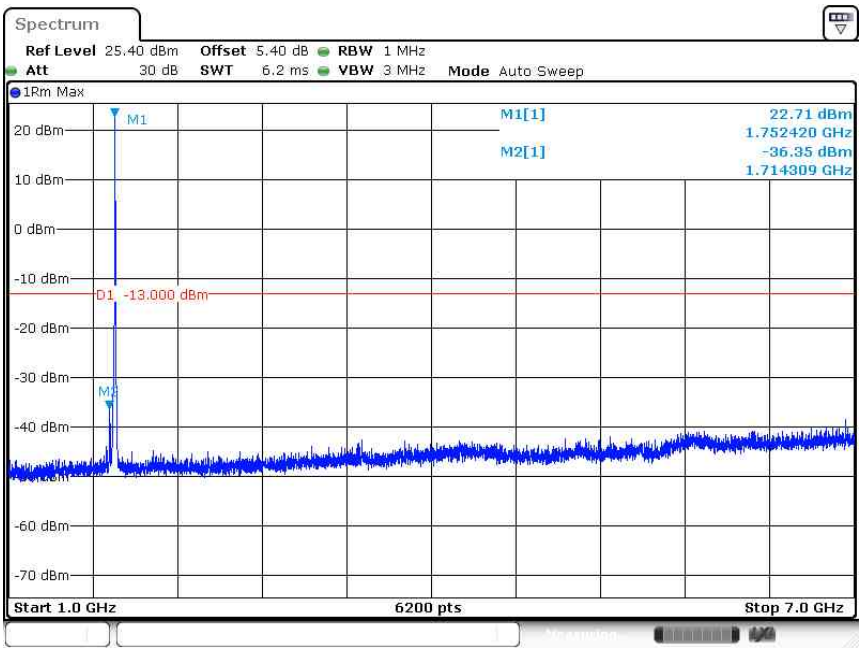

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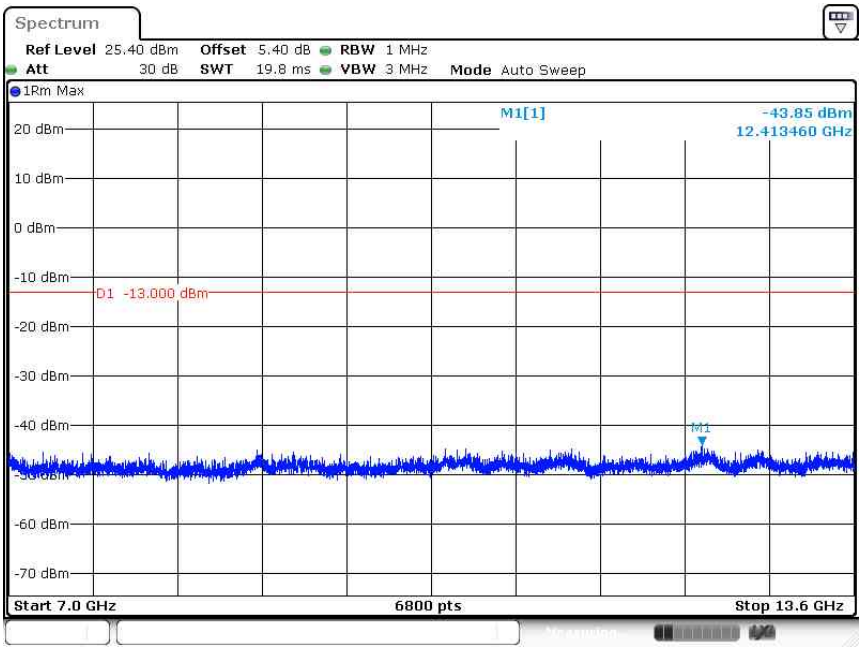

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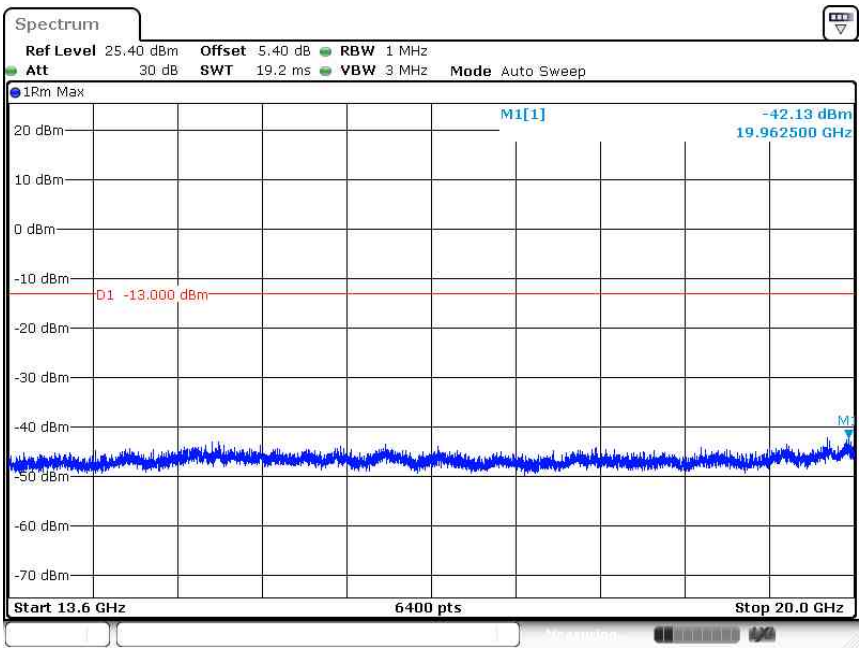

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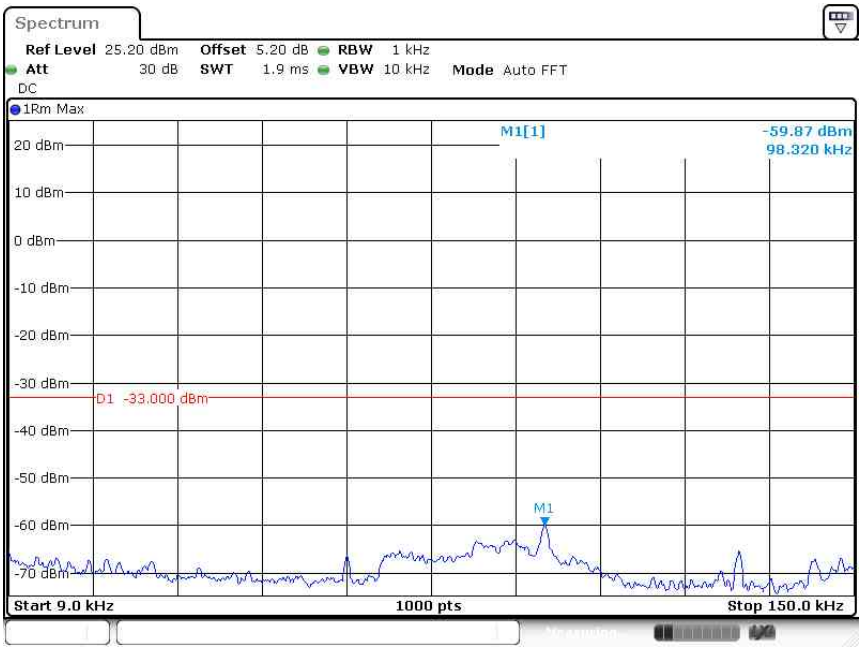

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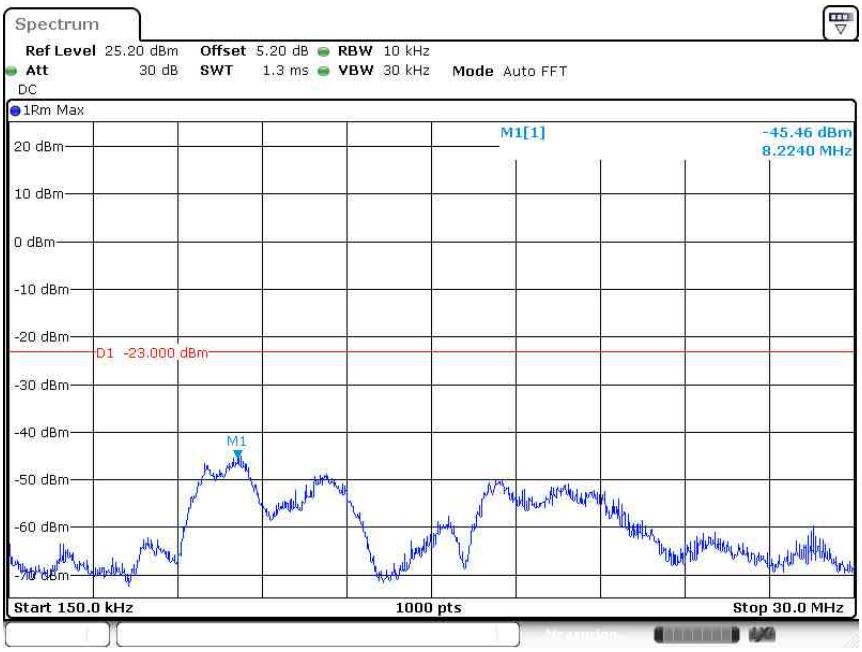

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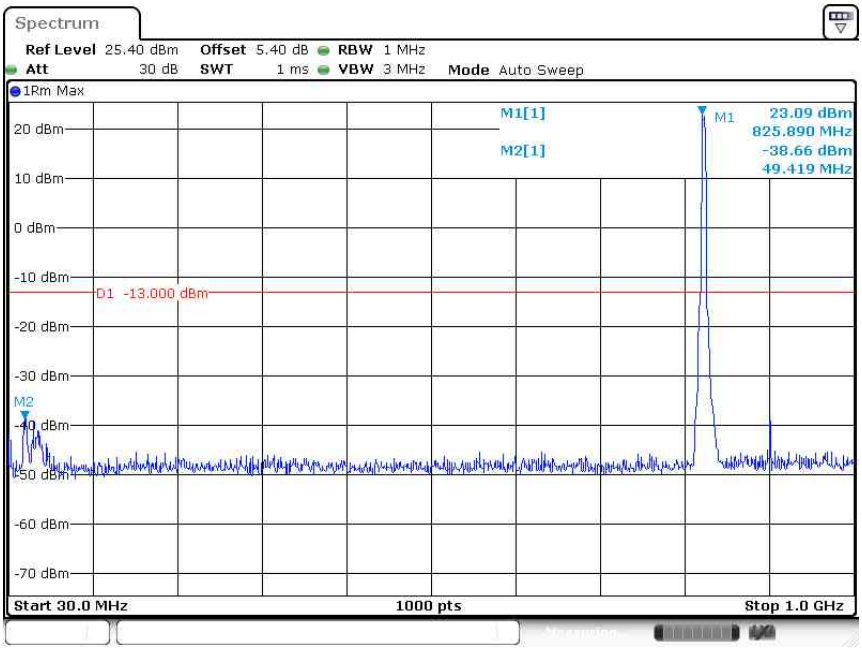

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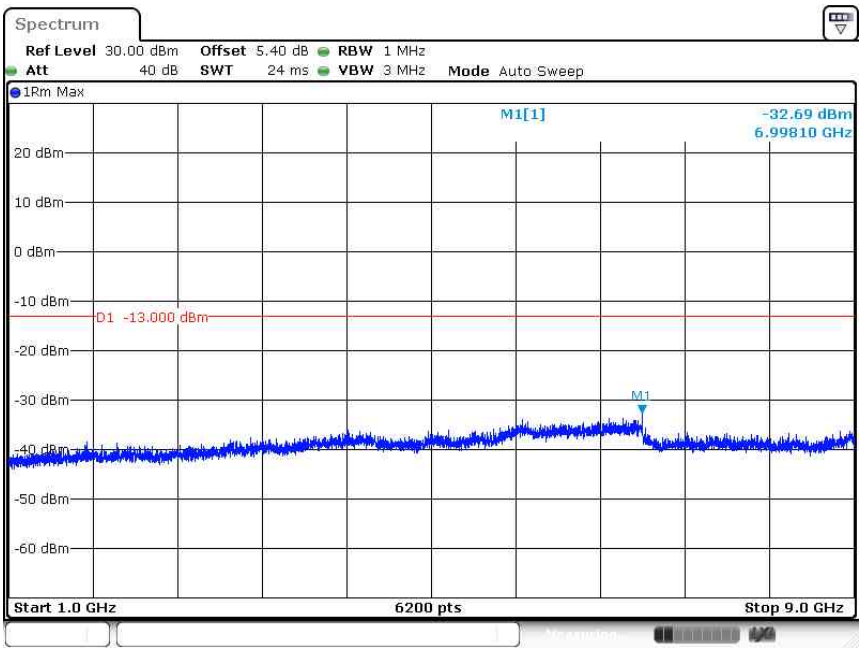

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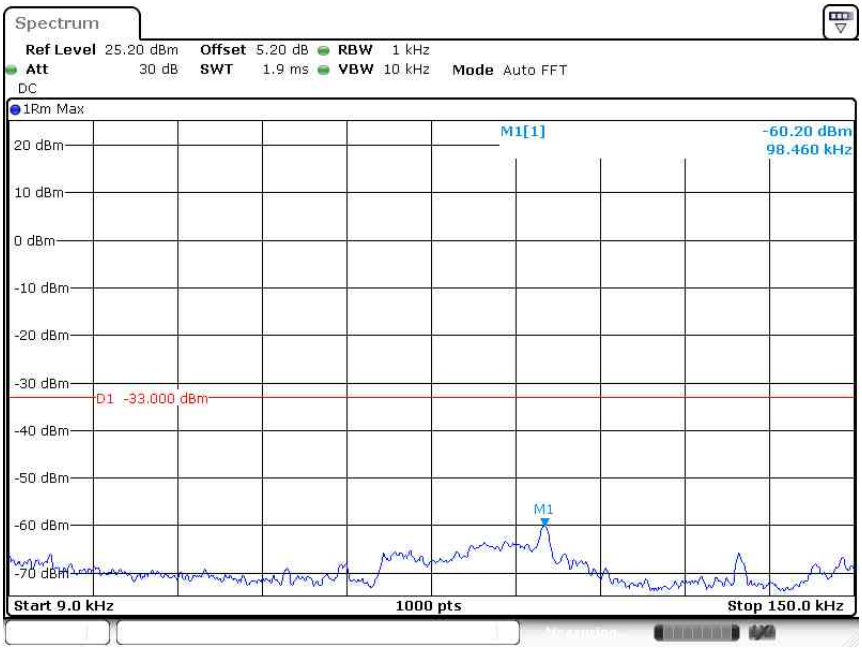

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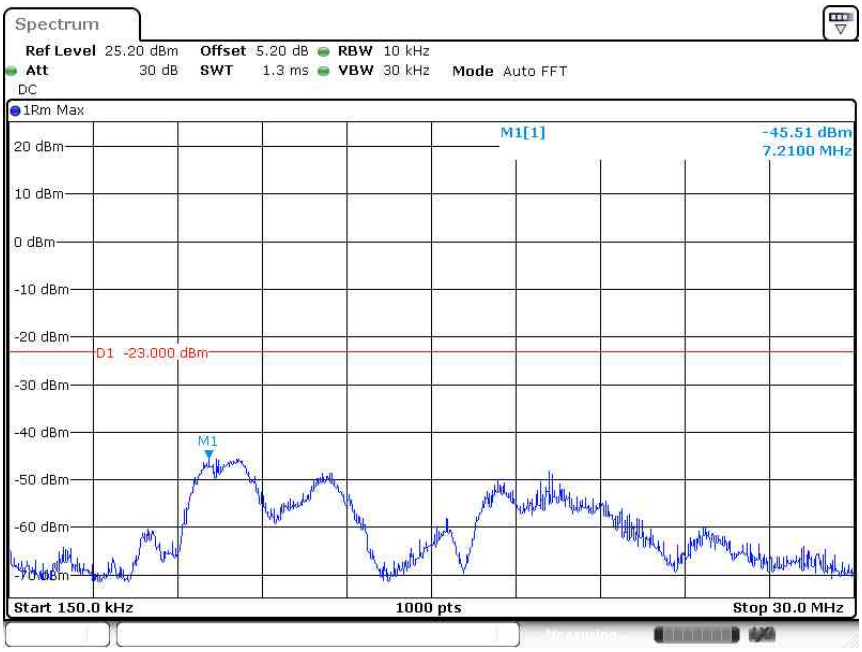

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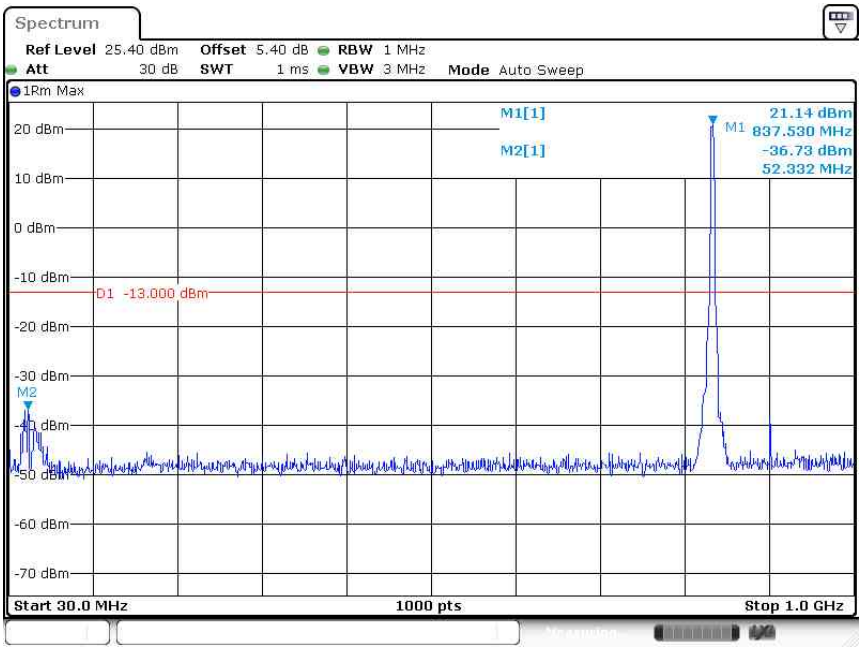

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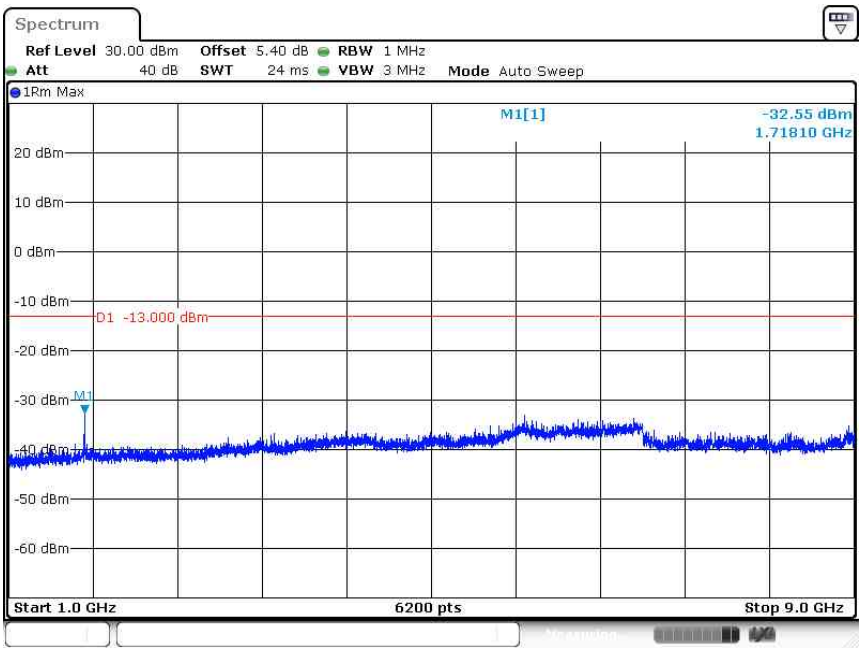

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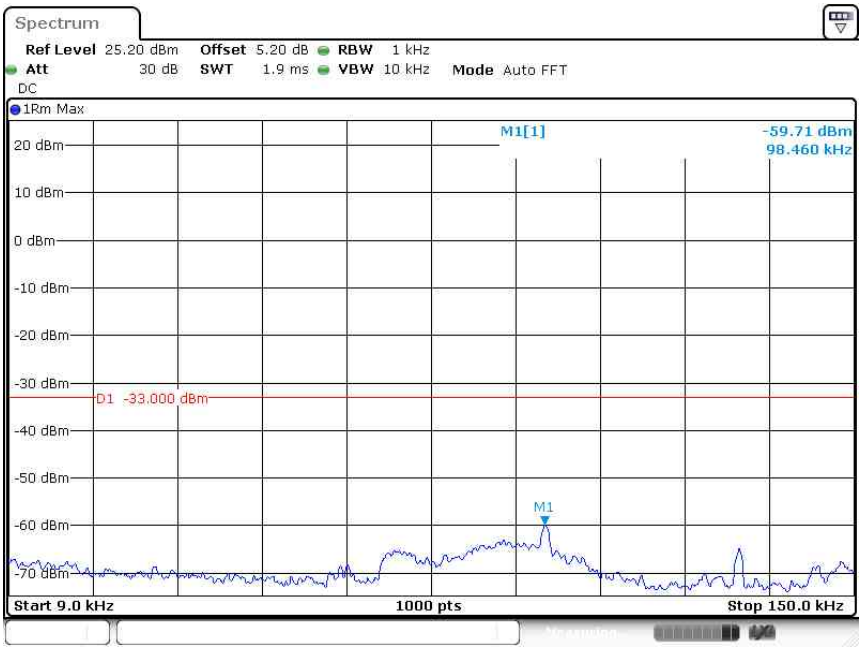

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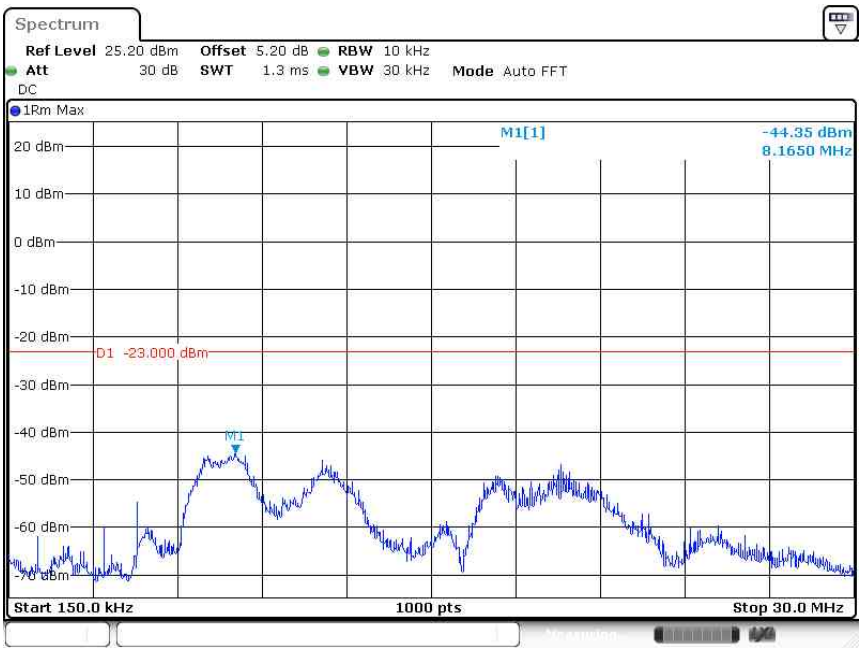

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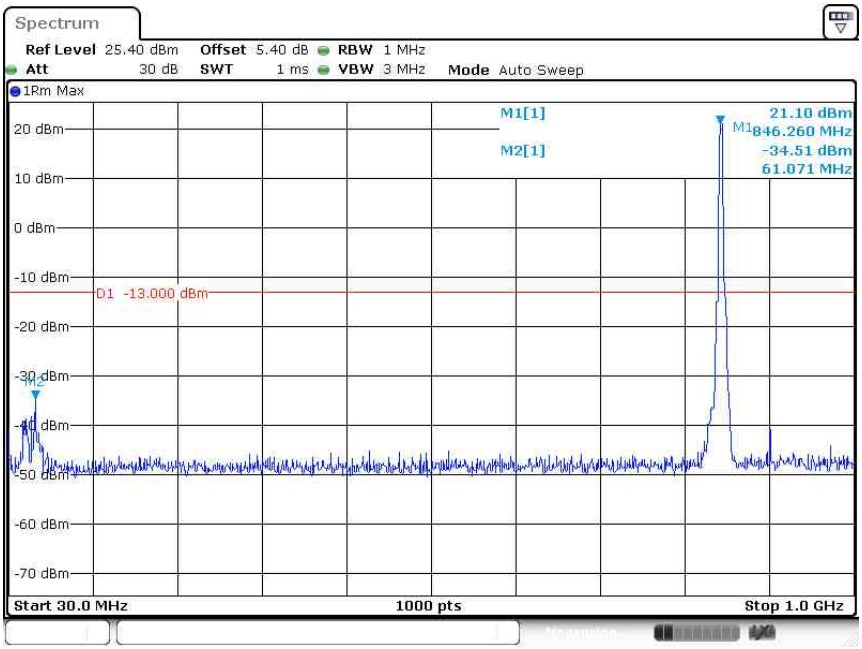

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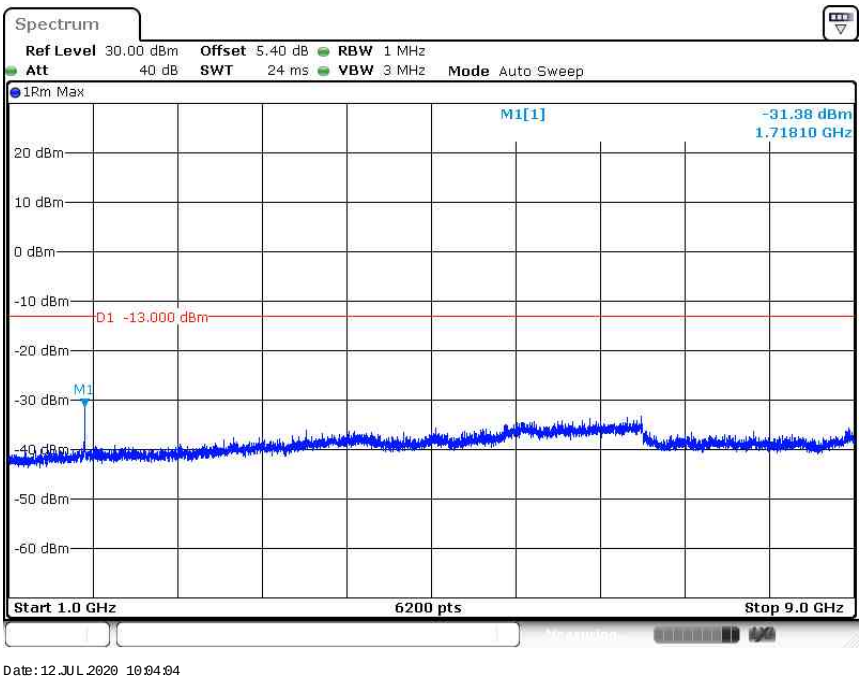

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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1.Test Mode =WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.1884	-72.73	-13.00	59.73	Vertical
112.7451	-64.72	-13.00	51.72	Vertical
401.2861	-67.77	-13.00	54.77	Vertical
5560.5854	-60.54	-13.00	47.54	Vertical
10463.2488	-51.59	-13.00	38.59	Vertical
17998.5000	-39.94	-13.00	26.94	Vertical
43.9202	-64.02	-13.00	51.02	Horizontal
239.9670	-67.83	-13.00	54.83	Horizontal
542.4766	-65.55	-13.00	52.55	Horizontal
3706.0235	-60.28	-13.00	47.28	Horizontal
5560.0853	-57.71	-13.00	44.71	Horizontal
16380.4460	-43.49	-13.00	30.49	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.7291	-71.88	-13.00	58.88	Vertical
110.8050	-64.72	-13.00	51.72	Vertical
402.3046	-67.43	-13.00	54.43	Vertical
3841.5281	-61.76	-13.00	48.76	Vertical
8027.6676	-55.20	-13.00	42.20	Vertical
17996.9999	-39.80	-13.00	26.80	Vertical
40.6220	-64.13	-13.00	51.13	Horizontal
232.6916	-68.50	-13.00	55.50	Horizontal

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577.1074	-64.26	-13.00	51.26	Horizontal
5636.0879	-59.16	-13.00	46.16	Horizontal
10553.7518	-52.34	-13.00	39.34	Horizontal
16398.9466	-43.52	-13.00	30.52	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.6991	-72.80	-13.00	59.80	Vertical
110.7080	-64.40	-13.00	51.40	Vertical
399.7340	-68.19	-13.00	55.19	Vertical
5163.5721	-61.74	-13.00	48.74	Vertical
9885.7295	-52.25	-13.00	39.25	Vertical
17996.9999	-39.87	-13.00	26.87	Vertical
44.5022	-64.04	-13.00	51.04	Horizontal
238.8999	-67.99	-13.00	54.99	Horizontal
544.2712	-65.02	-13.00	52.02	Horizontal
5719.5907	-57.64	-13.00	44.64	Horizontal
10042.2347	-52.20	-13.00	39.20	Horizontal
16408.9470	-43.51	-13.00	30.51	Horizontal

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7.2. Test Band = WCDMA Band IV

7.2.1.Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.2483	-71.85	-13.00	58.85	Vertical
116.4798	-62.39	-13.00	49.39	Vertical
434.9953	-64.45	-13.00	51.45	Vertical
3422.5141	-56.14	-13.00	43.14	Vertical
7451.6484	-53.10	-13.00	40.10	Vertical
17999.5000	-33.99	-13.00	20.99	Vertical
44.9387	-62.56	-13.00	49.56	Horizontal
232.0126	-65.27	-13.00	52.27	Horizontal
605.0933	-60.87	-13.00	47.87	Horizontal
3422.5141	-57.61	-13.00	44.61	Horizontal
7469.1490	-53.11	-13.00	40.11	Horizontal
16404.9468	-35.53	-13.00	22.53	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.0615	-70.71	-13.00	57.71	Vertical
113.7637	-63.15	-13.00	50.15	Vertical
423.6457	-64.61	-13.00	51.61	Vertical
5119.5707	-58.80	-13.00	45.80	Vertical
8031.6677	-52.85	-13.00	39.85	Vertical
17999.0000	-33.32	-13.00	20.32	Vertical
43.5807	-62.02	-13.00	49.02	Horizontal
244.0897	-65.85	-13.00	52.85	Horizontal
608.1004	-61.19	-13.00	48.19	Horizontal
3599.0200	-59.75	-13.00	46.75	Horizontal

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7420.6474	-53.45	-13.00	40.45	Horizontal
16400.9467	-34.79	-13.00	21.79	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.6363	-71.06	-13.00	58.06	Vertical
113.1332	-62.43	-13.00	49.43	Vertical
290.4580	-65.97	-13.00	52.97	Vertical
3503.0168	-59.56	-13.00	46.56	Vertical
7435.1478	-53.32	-13.00	40.32	Vertical
17991.9997	-33.85	-13.00	20.85	Vertical
42.2226	-62.38	-13.00	49.38	Horizontal
234.0497	-65.02	-13.00	52.02	Horizontal
553.1957	-62.55	-13.00	49.55	Horizontal
5661.5887	-58.60	-13.00	45.60	Horizontal
9552.7184	-49.83	-13.00	36.83	Horizontal
16395.9465	-35.54	-13.00	22.54	Horizontal

7.3. Test Band = WCDMA Band V

7.3.1.Test Mode =WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.1998	-73.86	-13.00	60.86	Vertical
116.9648	-64.71	-13.00	51.71	Vertical
337.5539	-68.34	-13.00	55.34	Vertical
1950.9902	-57.84	-13.00	44.84	Vertical
2699.5399	-51.89	-13.00	38.89	Vertical
17999.0000	-39.88	-13.00	26.88	Vertical
44.8417	-64.23	-13.00	51.23	Horizontal
98.5824	-75.03	-13.00	62.03	Horizontal

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246.2723	-67.84	-13.00	54.84	Horizontal
1960.5921	-57.52	-13.00	44.52	Horizontal
2695.5391	-50.65	-13.00	37.65	Horizontal
16392.9464	-43.77	-13.00	30.77	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.3411	-72.11	-13.00	59.11	Vertical
113.8607	-64.68	-13.00	51.68	Vertical
249.8130	-70.83	-13.00	57.83	Vertical
1700.1400	-59.81	-13.00	46.81	Vertical
2510.3021	-49.44	-13.00	36.44	Vertical
17995.9999	-39.74	-13.00	26.74	Vertical
42.8531	-63.97	-13.00	50.97	Horizontal
238.8999	-68.45	-13.00	55.45	Horizontal
507.2639	-65.86	-13.00	52.86	Horizontal
1954.1908	-56.54	-13.00	43.54	Horizontal
2696.3393	-50.77	-13.00	37.77	Horizontal
16389.4463	-43.62	-13.00	30.62	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.9217	-70.79	-13.00	57.79	Vertical
107.3129	-64.61	-13.00	51.61	Vertical
386.2018	-67.64	-13.00	54.64	Vertical
1953.3907	-57.89	-13.00	44.89	Vertical
2518.3037	-51.95	-13.00	38.95	Vertical
17999.5000	-39.87	-13.00	26.87	Vertical
43.8232	-63.60	-13.00	50.60	Horizontal
99.5525	-75.68	-13.00	62.68	Horizontal
237.3479	-68.45	-13.00	55.45	Horizontal

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1950.9902	-56.81	-13.00	43.81	Horizontal
2518.3037	-50.19	-13.00	37.19	Horizontal
16366.4455	-43.60	-13.00	30.60	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	12.15	0.006560	±2.5	PASS
Band II	9262	VN	TN	12.69	0.006850	±2.5	PASS
Band II	9262	VH	TN	13.34	0.007201	±2.5	PASS
Band II	9400	VL	TN	12.27	0.006525	±2.5	PASS
Band II	9400	VN	TN	13.73	0.007305	±2.5	PASS
Band II	9400	VH	TN	13.98	0.007438	±2.5	PASS
Band II	9538	VL	TN	8.77	0.004597	±2.5	PASS
Band II	9538	VN	TN	7.95	0.004166	±2.5	PASS
Band II	9538	VH	TN	7.97	0.004177	±2.5	PASS
Band IV	1312	VL	TN	10.80	0.006307	±2.5	PASS
Band IV	1312	VN	TN	10.93	0.006382	±2.5	PASS
Band IV	1312	VH	TN	11.90	0.006950	±2.5	PASS
Band IV	1413	VL	TN	15.11	0.008723	±2.5	PASS
Band IV	1413	VN	TN	11.64	0.006717	±2.5	PASS
Band IV	1413	VH	TN	11.56	0.006671	±2.5	PASS
Band IV	1513	VL	TN	-7.66	-0.004371	±2.5	PASS
Band IV	1513	VN	TN	-6.68	-0.003812	±2.5	PASS
Band IV	1513	VH	TN	-6.57	-0.003751	±2.5	PASS
Band V	4132	VL	TN	-2.05	-0.002475	±2.5	PASS
Band V	4132	VN	TN	-2.99	-0.003618	±2.5	PASS
Band V	4132	VH	TN	-2.43	-0.002943	±2.5	PASS
Band V	4182	VL	TN	-0.73	-0.000872	±2.5	PASS
Band V	4182	VN	TN	-1.82	-0.002181	±2.5	PASS
Band V	4182	VH	TN	-1.65	-0.001975	±2.5	PASS
Band V	4233	VL	TN	-1.72	-0.002028	±2.5	PASS

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Band V	4233	VN	TN	-1.82	-0.002154	±2.5	PASS
Band V	4233	VH	TN	-2.12	-0.002501	±2.5	PASS

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1.1 Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	13.64	0.007363	±2.5	PASS
Band II	9262	VN	-20	13.88	0.007495	±2.5	PASS
Band II	9262	VN	-10	12.83	0.006927	±2.5	PASS
Band II	9262	VN	0	13.57	0.007325	±2.5	PASS
Band II	9262	VN	10	12.95	0.006989	±2.5	PASS
Band II	9262	VN	20	13.44	0.007255	±2.5	PASS
Band II	9262	VN	30	13.73	0.007410	±2.5	PASS
Band II	9262	VN	40	13.73	0.007414	±2.5	PASS
Band II	9262	VN	50	12.02	0.006491	±2.5	PASS
Band II	9400	VN	-30	13.20	0.007019	±2.5	PASS
Band II	9400	VN	-20	12.86	0.006841	±2.5	PASS
Band II	9400	VN	-10	13.44	0.007149	±2.5	PASS
Band II	9400	VN	0	13.28	0.007061	±2.5	PASS
Band II	9400	VN	10	13.58	0.007225	±2.5	PASS
Band II	9400	VN	20	13.38	0.007115	±2.5	PASS
Band II	9400	VN	30	12.73	0.006772	±2.5	PASS
Band II	9400	VN	40	13.46	0.007160	±2.5	PASS
Band II	9400	VN	50	13.15	0.006997	±2.5	PASS
Band II	9538	VN	-30	8.15	0.004274	±2.5	PASS
Band II	9538	VN	-20	7.45	0.003907	±2.5	PASS
Band II	9538	VN	-10	7.34	0.003847	±2.5	PASS
Band II	9538	VN	0	8.80	0.004612	±2.5	PASS
Band II	9538	VN	10	8.45	0.004432	±2.5	PASS
Band II	9538	VN	20	7.93	0.004158	±2.5	PASS
Band II	9538	VN	30	7.94	0.004162	±2.5	PASS
Band II	9538	VN	40	8.30	0.004353	±2.5	PASS

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Band II	9538	VN	50	7.63	0.004001	±2.5	PASS
Band IV	1312	VN	-30	13.73	0.008016	±2.5	PASS
Band IV	1312	VN	-20	12.06	0.007042	±2.5	PASS
Band IV	1312	VN	-10	10.86	0.006345	±2.5	PASS
Band IV	1312	VN	0	12.84	0.007498	±2.5	PASS
Band IV	1312	VN	10	13.49	0.007878	±2.5	PASS
Band IV	1312	VN	20	11.59	0.006767	±2.5	PASS
Band IV	1312	VN	30	11.24	0.006562	±2.5	PASS
Band IV	1312	VN	40	12.25	0.007151	±2.5	PASS
Band IV	1312	VN	50	12.02	0.007017	±2.5	PASS
Band IV	1413	VN	-30	13.02	0.007517	±2.5	PASS
Band IV	1413	VN	-20	14.33	0.008269	±2.5	PASS
Band IV	1413	VN	-10	13.68	0.007897	±2.5	PASS
Band IV	1413	VN	0	12.92	0.007460	±2.5	PASS
Band IV	1413	VN	10	13.20	0.007617	±2.5	PASS
Band IV	1413	VN	20	13.31	0.007683	±2.5	PASS
Band IV	1413	VN	30	13.54	0.007815	±2.5	PASS
Band IV	1413	VN	40	14.93	0.008616	±2.5	PASS
Band IV	1413	VN	50	14.26	0.008228	±2.5	PASS
Band IV	1513	VN	-30	-7.03	-0.004012	±2.5	PASS
Band IV	1513	VN	-20	-5.00	-0.002853	±2.5	PASS
Band IV	1513	VN	-10	-8.55	-0.004881	±2.5	PASS
Band IV	1513	VN	0	-6.97	-0.003979	±2.5	PASS
Band IV	1513	VN	10	-6.27	-0.003575	±2.5	PASS
Band IV	1513	VN	20	-7.80	-0.004452	±2.5	PASS
Band IV	1513	VN	30	-6.95	-0.003963	±2.5	PASS
Band IV	1513	VN	40	-6.32	-0.003604	±2.5	PASS
Band IV	1513	VN	50	-6.77	-0.003861	±2.5	PASS
Band V	4132	VN	-30	-2.43	-0.002943	±2.5	PASS
Band V	4132	VN	-20	-3.13	-0.003782	±2.5	PASS
Band V	4132	VN	-10	-2.42	-0.002934	±2.5	PASS

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Band V	4132	VN	0	-3.44	-0.004163	±2.5	PASS
Band V	4132	VN	10	-1.77	-0.002146	±2.5	PASS
Band V	4132	VN	20	-1.90	-0.002302	±2.5	PASS
Band V	4132	VN	30	-1.96	-0.002371	±2.5	PASS
Band V	4132	VN	40	-2.47	-0.002986	±2.5	PASS
Band V	4132	VN	50	-2.29	-0.002770	±2.5	PASS
Band V	4182	VN	-30	-0.06	-0.000068	±2.5	PASS
Band V	4182	VN	-20	-1.07	-0.001283	±2.5	PASS
Band V	4182	VN	-10	-0.89	-0.001060	±2.5	PASS
Band V	4182	VN	0	-0.66	-0.000787	±2.5	PASS
Band V	4182	VN	10	-0.97	-0.001163	±2.5	PASS
Band V	4182	VN	20	-0.70	-0.000838	±2.5	PASS
Band V	4182	VN	30	-1.33	-0.001591	±2.5	PASS
Band V	4182	VN	40	-1.08	-0.001291	±2.5	PASS
Band V	4182	VN	50	-1.85	-0.002215	±2.5	PASS
Band V	4233	VN	-30	-2.02	-0.002391	±2.5	PASS
Band V	4233	VN	-20	-1.71	-0.002019	±2.5	PASS
Band V	4233	VN	-10	-2.05	-0.002425	±2.5	PASS
Band V	4233	VN	0	-2.15	-0.002535	±2.5	PASS
Band V	4233	VN	10	-1.84	-0.002171	±2.5	PASS
Band V	4233	VN	20	-1.44	-0.001698	±2.5	PASS
Band V	4233	VN	30	-1.95	-0.002306	±2.5	PASS
Band V	4233	VN	40	-1.87	-0.002205	±2.5	PASS
Band V	4233	VN	50	-1.97	-0.002332	±2.5	PASS

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