



Appendix B

WCDMA BAND II & IV & V



CONTENT

	Page
1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	4
1.1. Test Result.....	4
2. PEAK-TO-AVERAGE RATIO	5
2.1. Test Result.....	5
2.2. Test Plots	5
3. MODULATION CHARACTERISTICS	10
3.1. For WCDMA	10
3.1.1. Test Band = WCDMA BAND II	10
3.1.1.1. Test Mode = UMTS/TM1.....	10
3.1.1.1.1. Test Channel = MCH.....	10
3.1.2. Test Band = WCDMA BAND IV.....	11
3.1.2.1. Test Mode = UMTS/TM1.....	11
3.1.2.1.1. Test Channel = MCH.....	11
3.1.3. Test Band = WCDMA BAND V.....	11
3.1.3.1. Test Mode = UMTS /TM1.....	11
3.1.3.1.1. Test Channel = MCH.....	11
4. 26dB BANDWIDTH AND OCCUPIED BANDWIDTH	12
4.1. Test Result.....	12
4.2. Test Plots	12
5. BAND EDGE.....	17
5.1. Test Plots	17
6. CONDUCTED SPURIOUS EMISSION.....	20
6.1. Test Plots	20
7. FIELD STRENGTH OF SPURIOUS RADIATION	44
7.1. For WCDMA	44
7.1.1. Test Band = WCDMA BAND II	44
7.1.1.1. Test Mode = UMTS/TM1.....	44
7.1.1.1.1. Test Channel = LCH.....	44
7.1.1.1.2. Test Channel = MCH.....	44
7.1.1.1.3. Test Channel = HCH	45
7.1.2. Test Band = WCDMA BAND IV.....	45
7.1.2.1. Test Mode = UMTS/TM1.....	45
7.1.2.1.1. Test Channel = LCH.....	45



7.1.2.1.2.	Test Channel = MCH.....	46
7.1.2.1.3.	Test Channel = HCH.....	46
7.1.3.	Test Band = WCDMA BAND V.....	47
7.1.3.1.	Test Mode = UMTS/TM1.....	47
7.1.3.1.1.	Test Channel = LCH.....	47
7.1.3.1.2.	Test Channel = MCH.....	47
7.1.3.1.3.	Test Channel = HCH.....	48
8.	FREQUENCY STABILITY.....	49
8.1.	Frequency Vs Voltage.....	49
8.2.	Frequency Vs Temperature.....	49



1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

BAND	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BAND II	9262	23.05	25.05	33	PASS
BAND II	9400	23.09	25.09	33	PASS
BAND II	9538	22.89	24.89	33	PASS
BAND IV	1312	22.88	24.88	30	PASS
BAND IV	1413	22.99	24.99	30	PASS
BAND IV	1513	22.95	24.95	30	PASS

BAND	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BAND V	4132	22.87	23.72	38.5	PASS
BAND V	4182	23.03	23.88	38.5	PASS
BAND V	4233	23.01	23.86	38.5	PASS

Note:

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

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

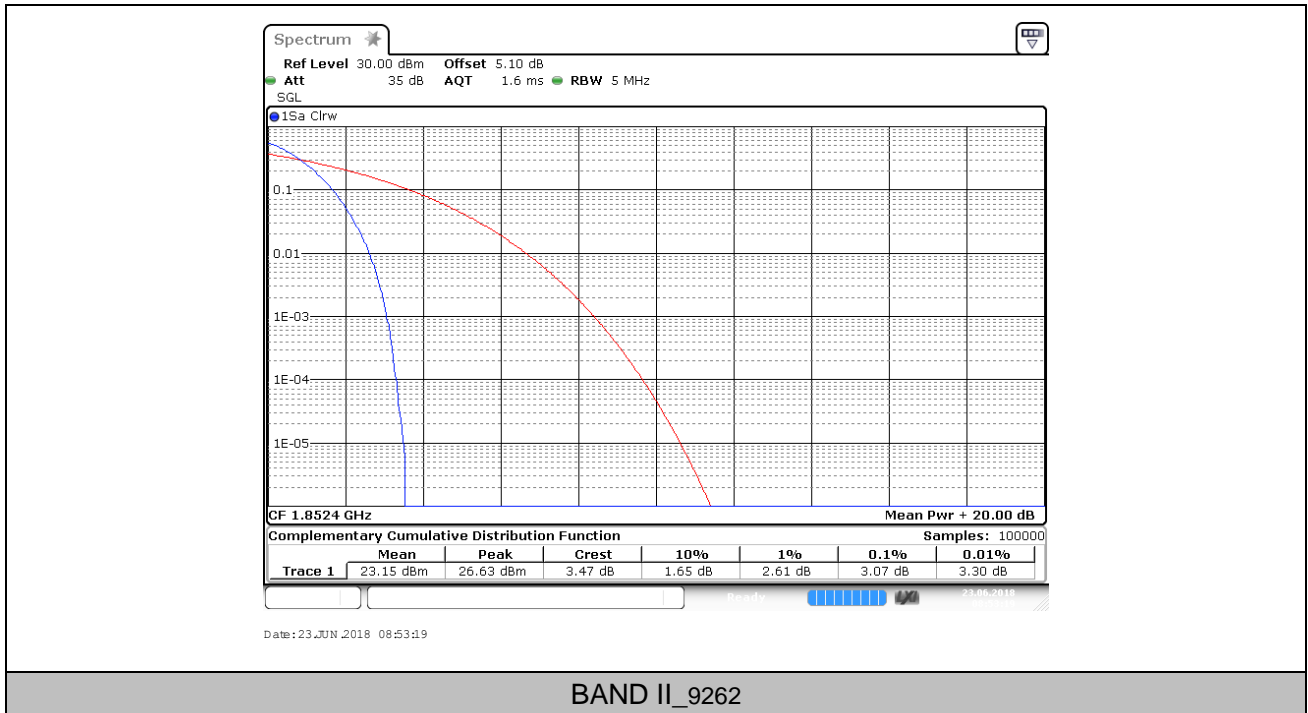
b: SGP=Signal Generator Level

2. Peak-to-Average Ratio

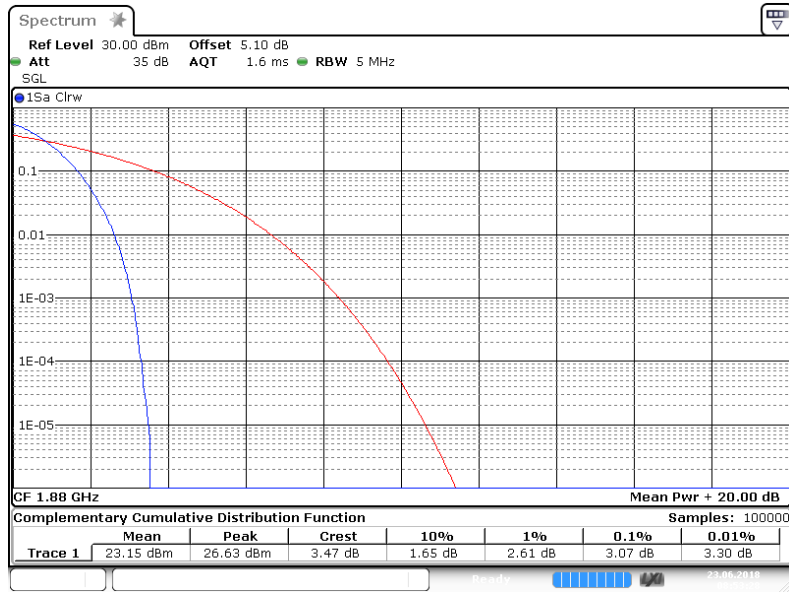
2.1. Test Result

BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
BAND II	9262	3.07	13	PASS
	9400	3.07	13	PASS
	9538	3.07	13	PASS
BAND IV	1312	3.01	13	PASS
	1413	3.01	13	PASS
	1513	3.01	13	PASS
BAND V	4132	3.04	13	PASS
	4182	3.04	13	PASS
	4233	3.04	13	PASS

2.2. Test Plots

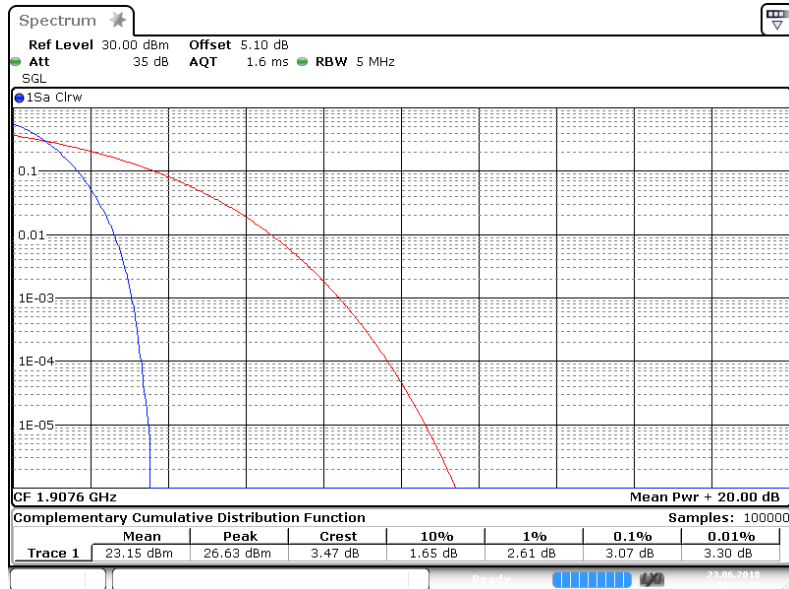


BAND II_9262



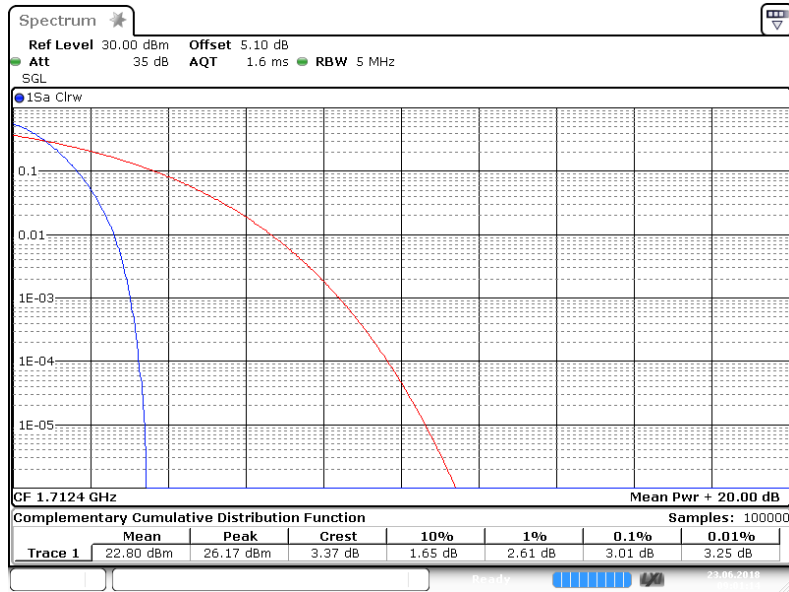
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BAND II_9400



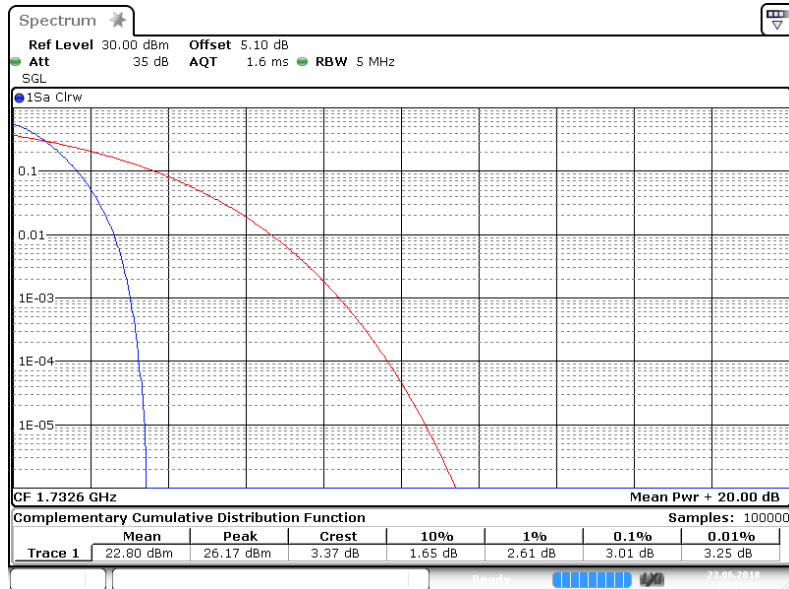
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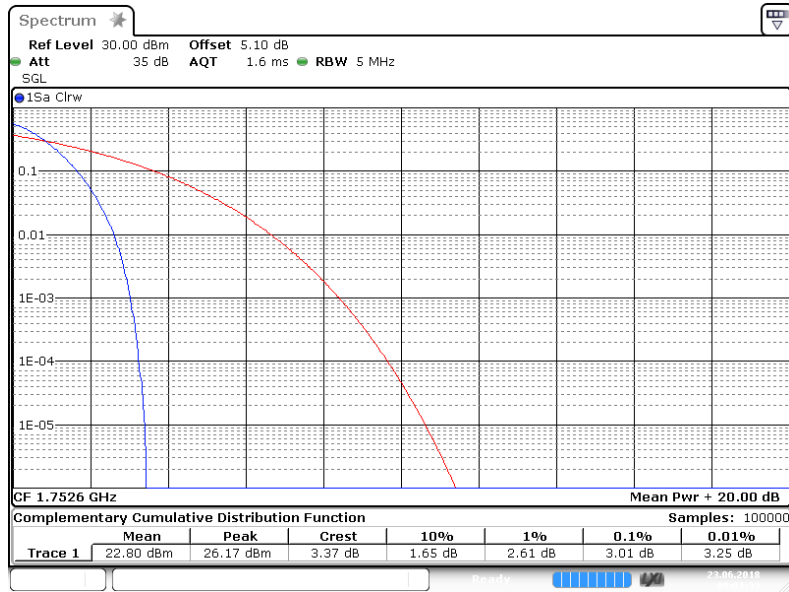
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BAND IV_1312

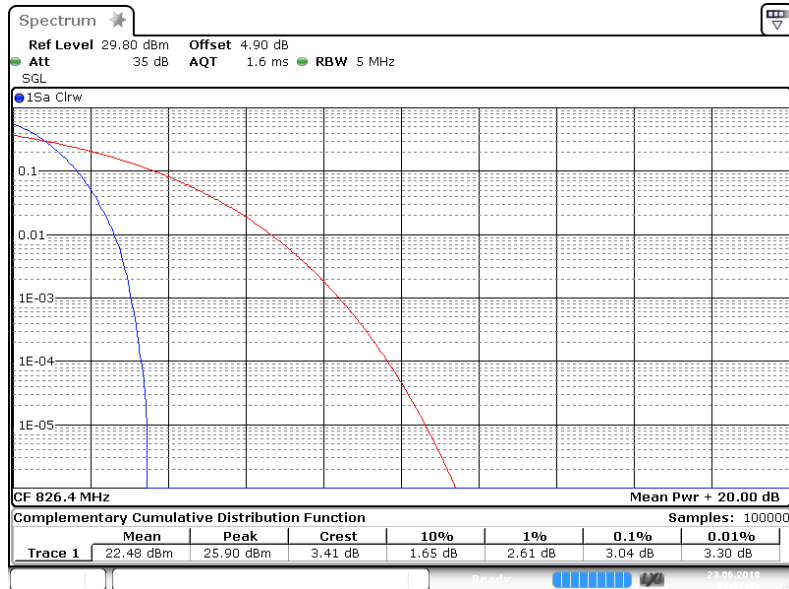


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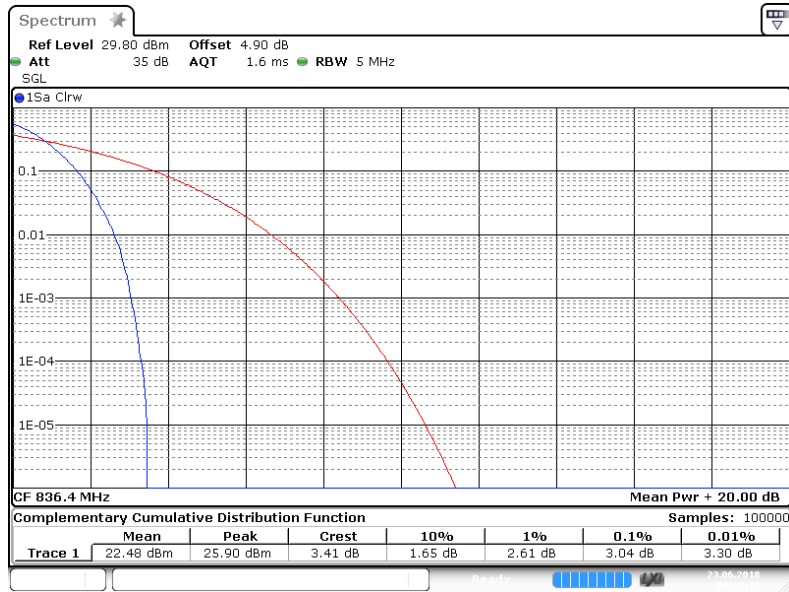
BAND IV_1413



BAND IV_1513

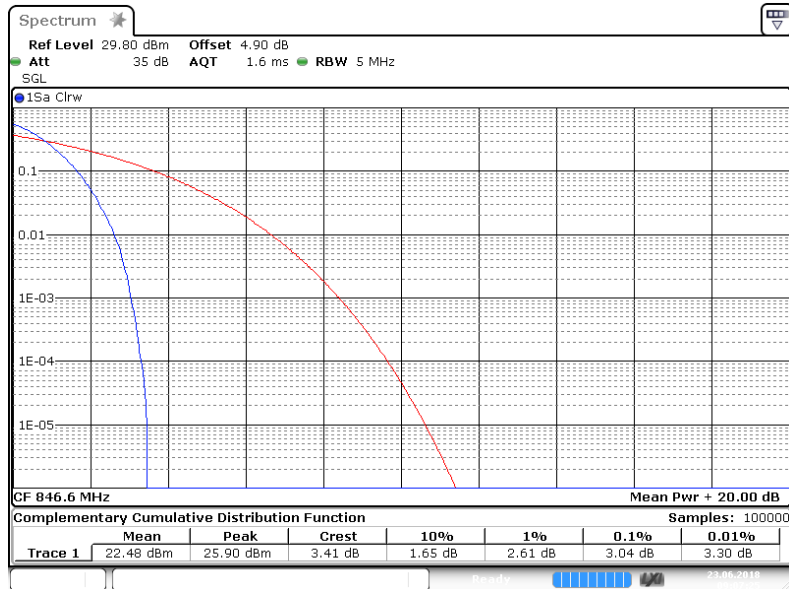


BAND V_4132



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BAND V_4182



Date: 23 JUN 2018 09:07:25

BAND V_4233

3. Modulation Characteristics

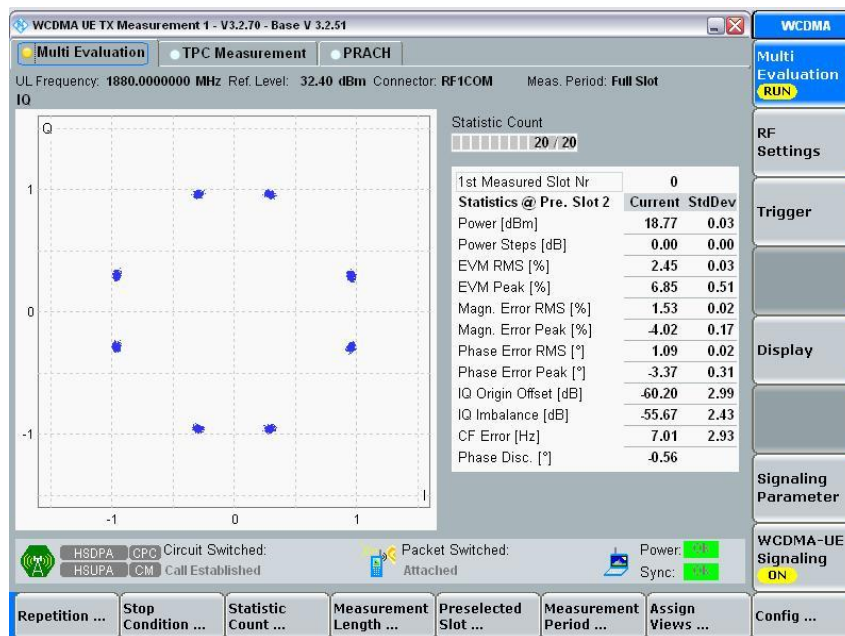
Part I - Test Plots

3.1. For WCDMA

3.1.1. Test Band = WCDMA BAND II

3.1.1.1. Test Mode = UMTS/TM1

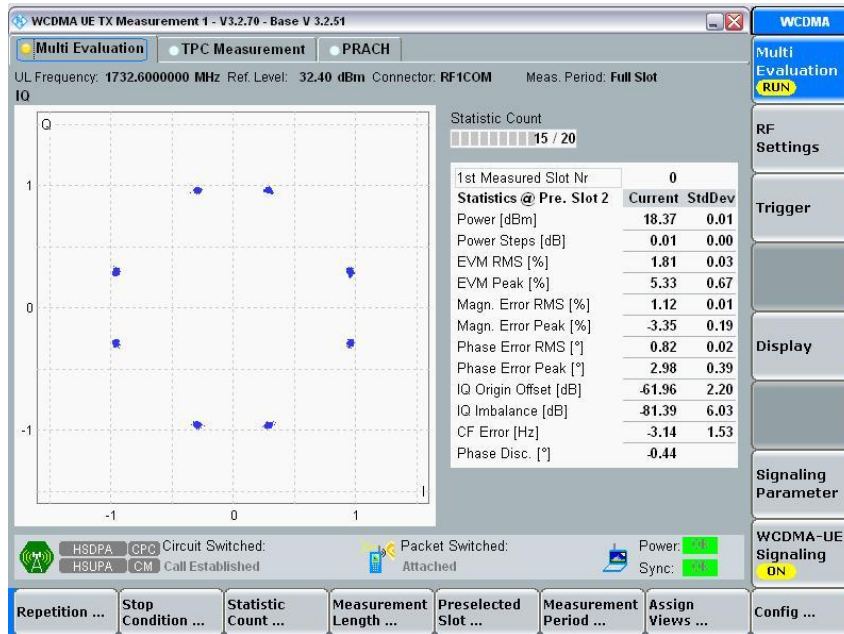
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3.1.2. Test Band = WCDMA BAND IV

3.1.2.1. Test Mode = UMTS/TM1

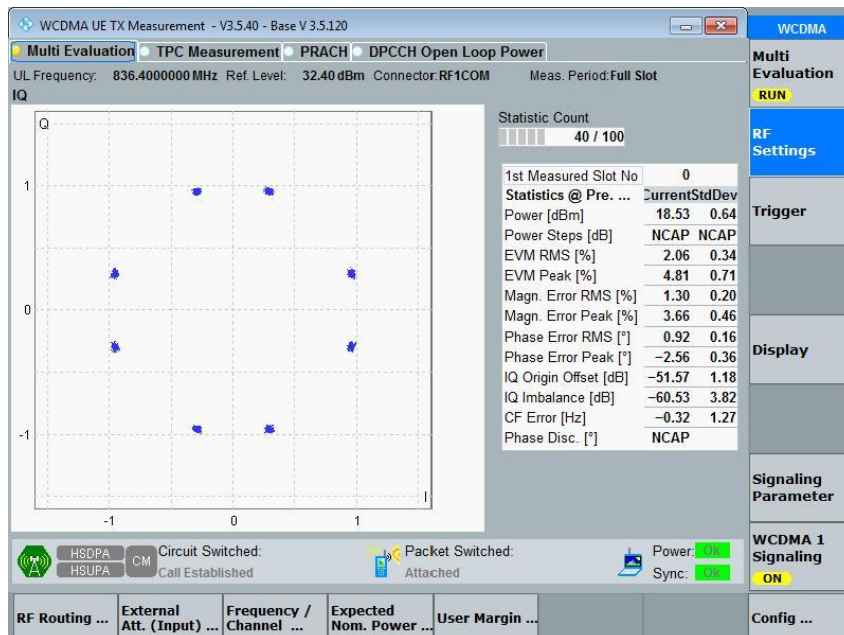
3.1.2.1.1. Test Channel = MCH



3.1.3. Test Band = WCDMA BAND V

3.1.3.1. Test Mode = UMTS /TM1

3.1.3.1.1. Test Channel = MCH

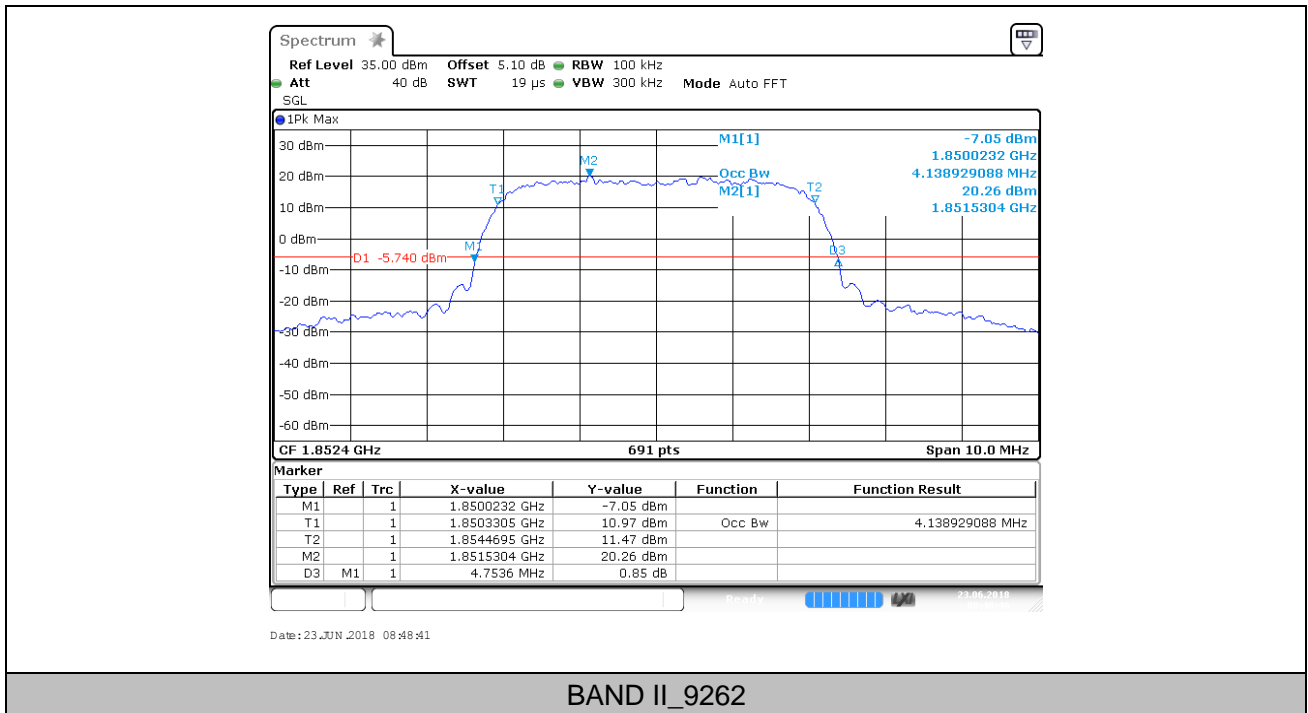


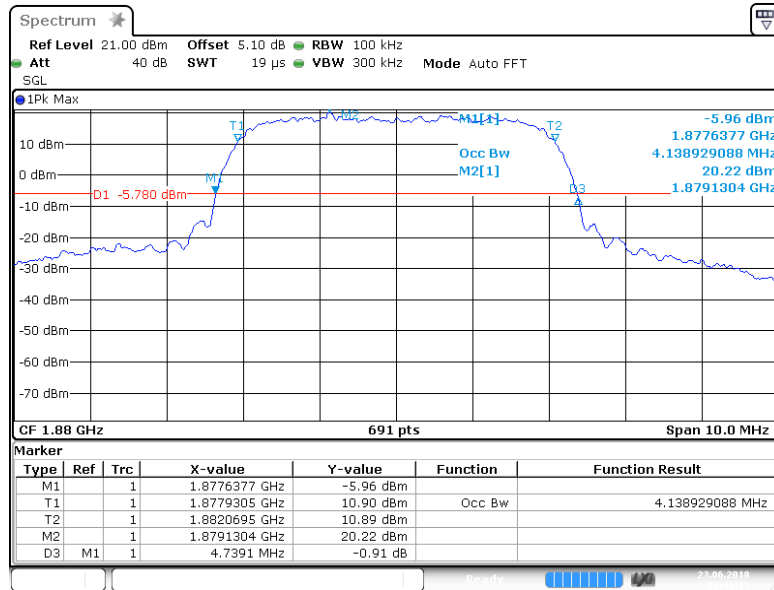
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
BAND II	9262	4138.9	4754	---	PASS
	9400	4138.9	4739	---	PASS
	9538	4138.9	4754	---	PASS
BAND IV	1312	4124.5	4739	---	PASS
	1413	4124.5	4725	---	PASS
	1513	4124.5	4725	---	PASS
BAND V	4132	4124.5	4739	---	PASS
	4182	4124.5	4754	---	PASS
	4233	4124.5	4768	---	PASS

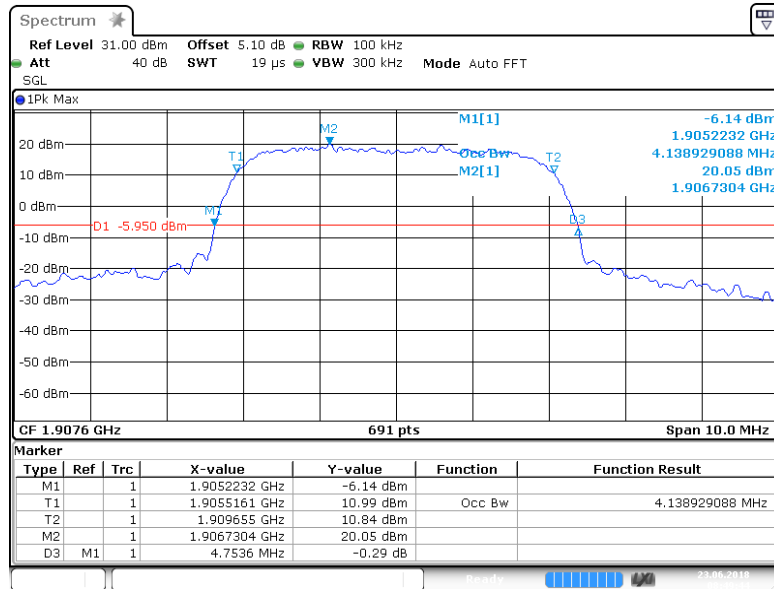
4.2. Test Plots





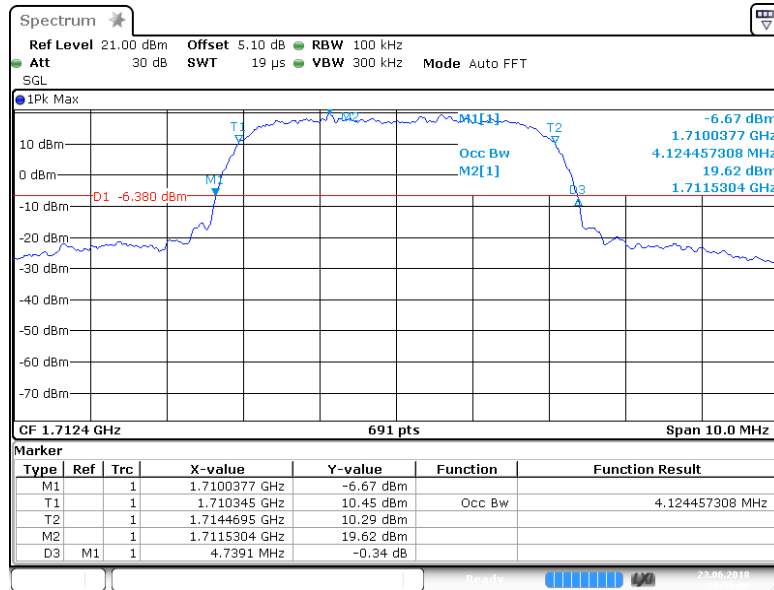
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BAND II_9400

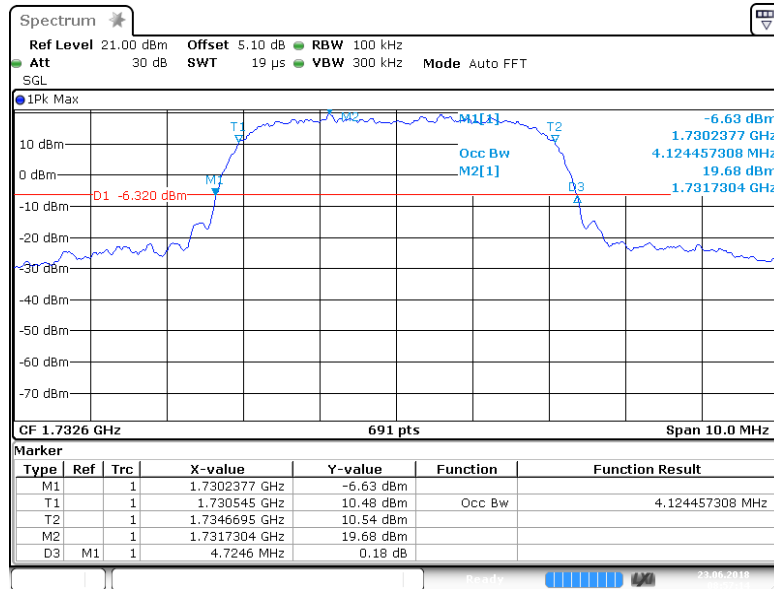


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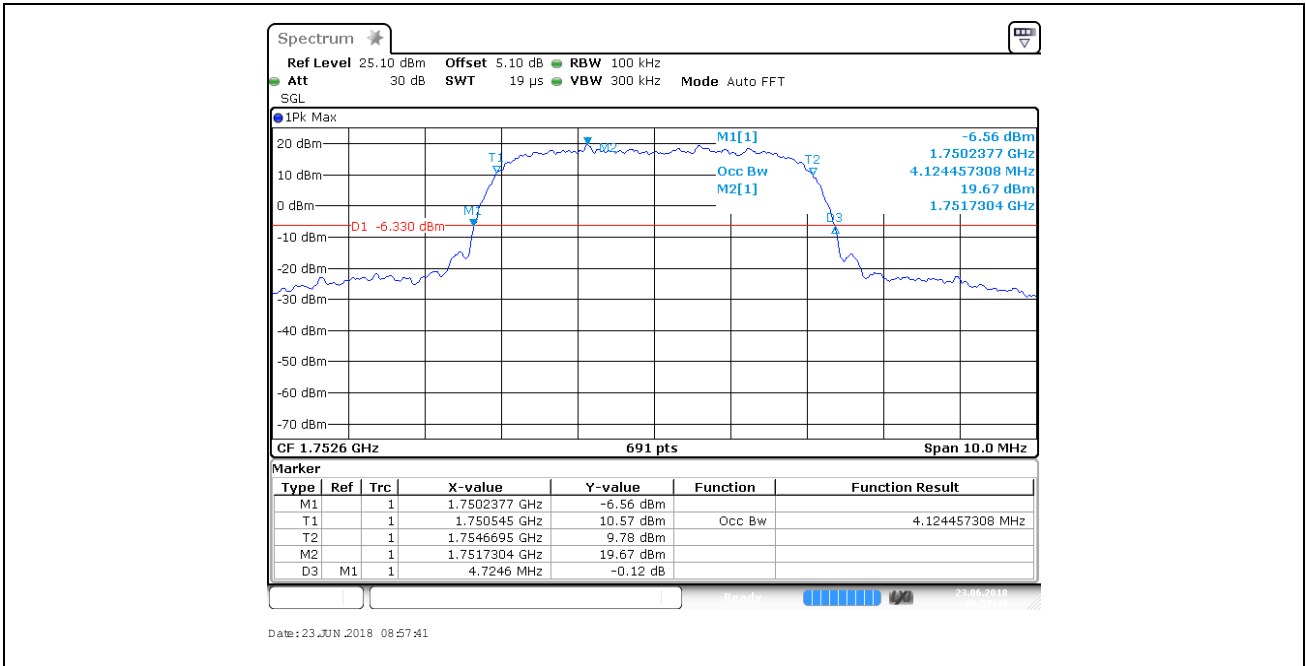
BAND II_9538



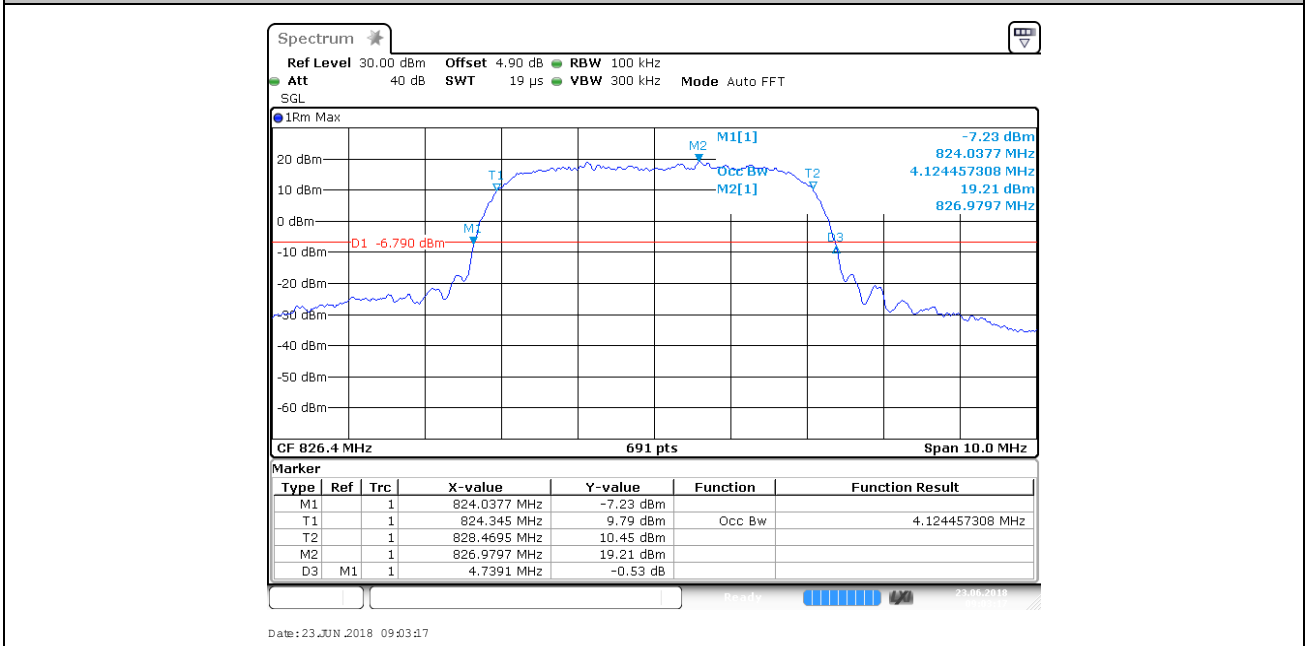
BAND IV_1312



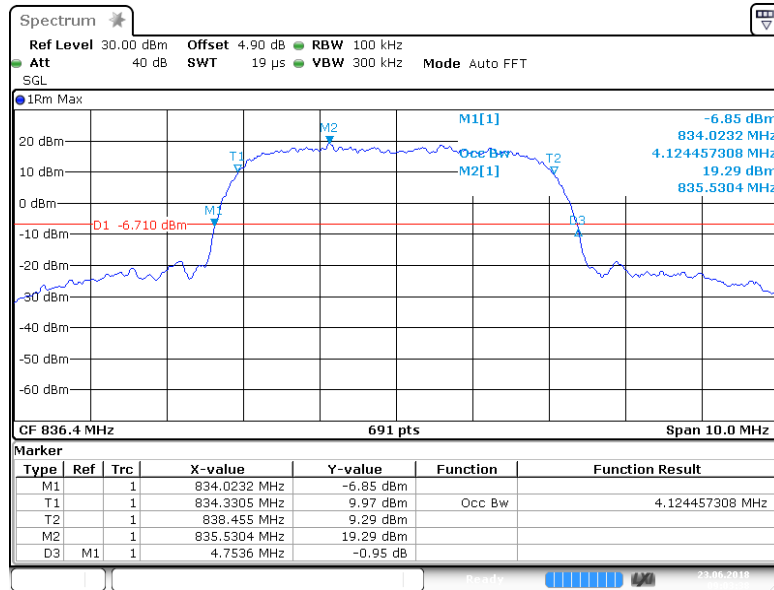
BAND IV_1413



BAND IV_1513

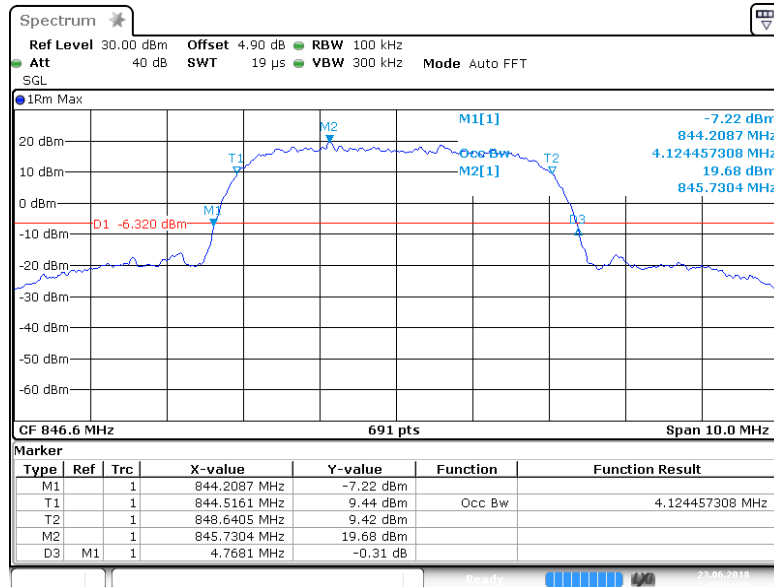


BAND V_4132



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BAND V_4182

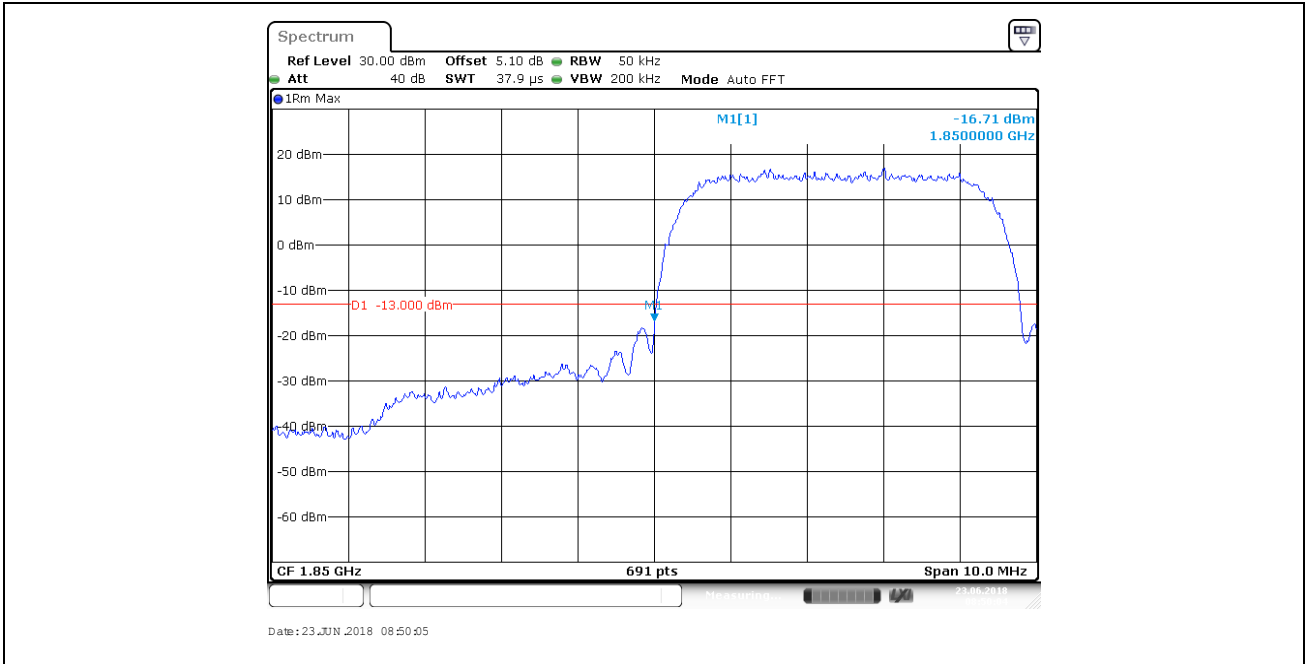


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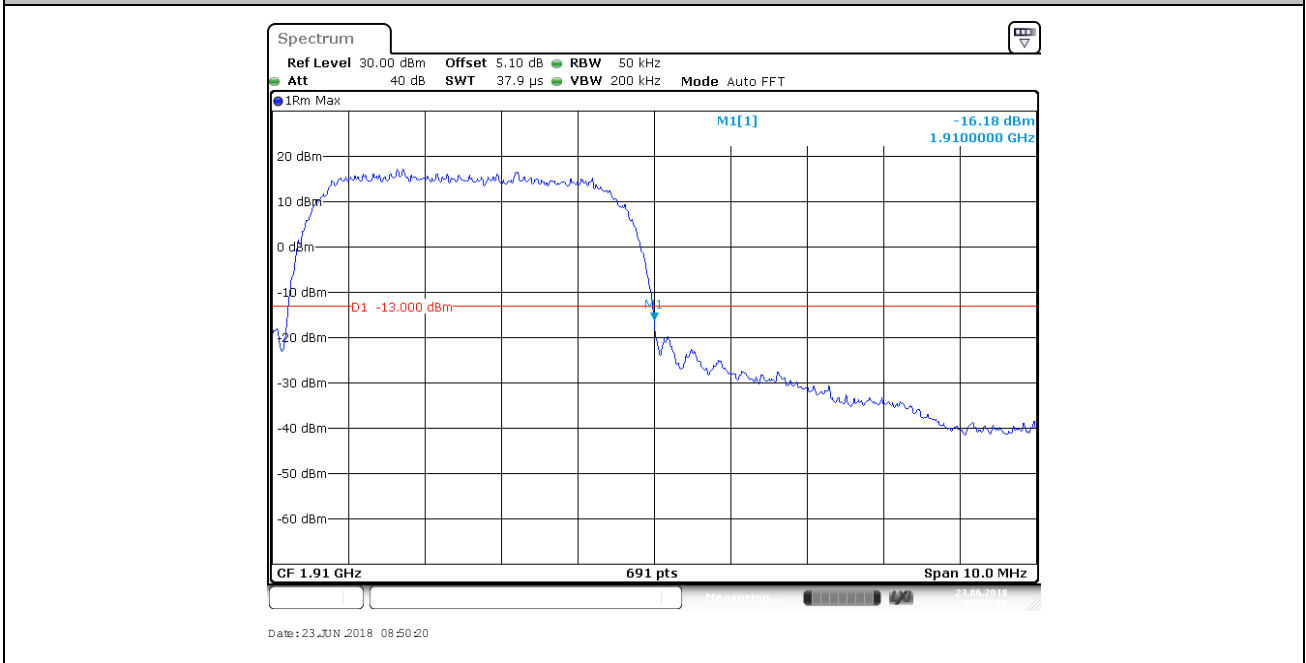
BAND V_4233

5. Band Edge

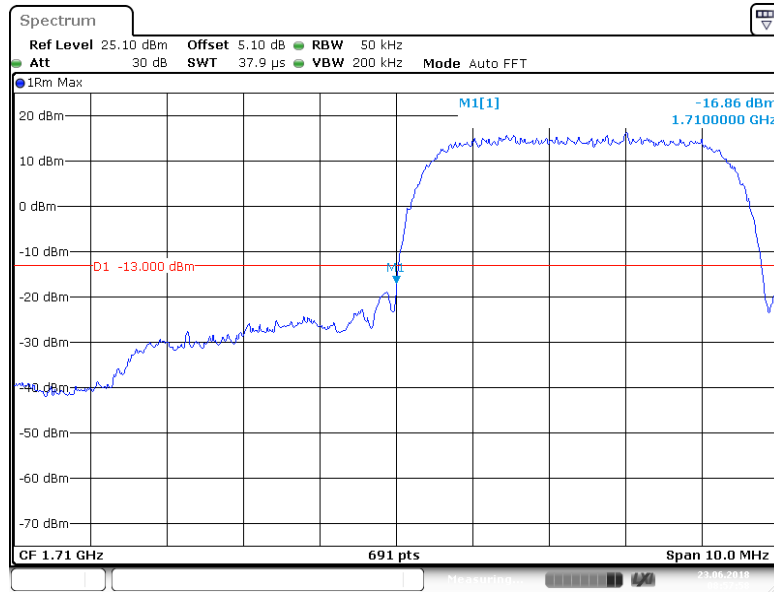
5.1. Test Plots



BAND II_9262

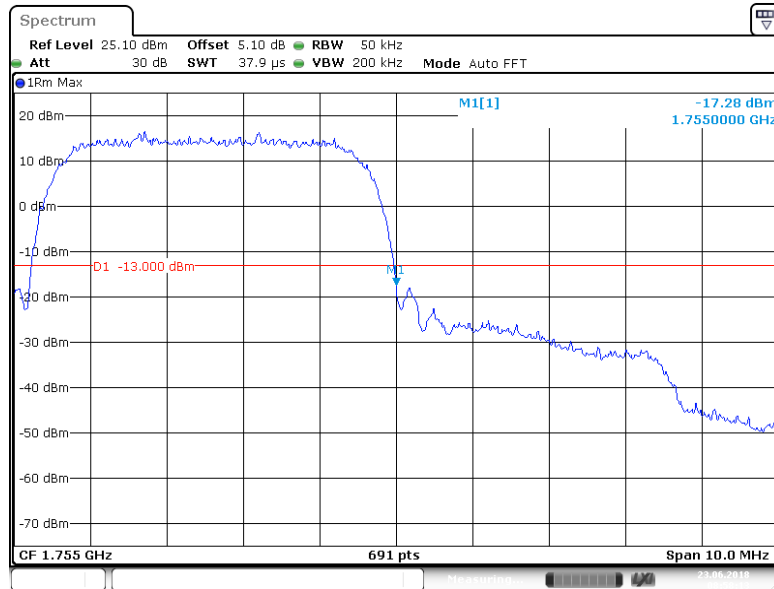


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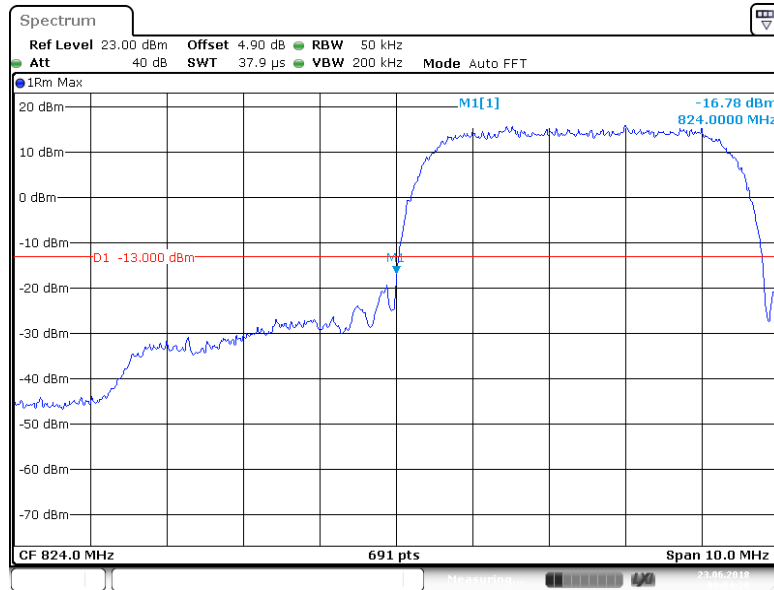
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BAND IV_1312



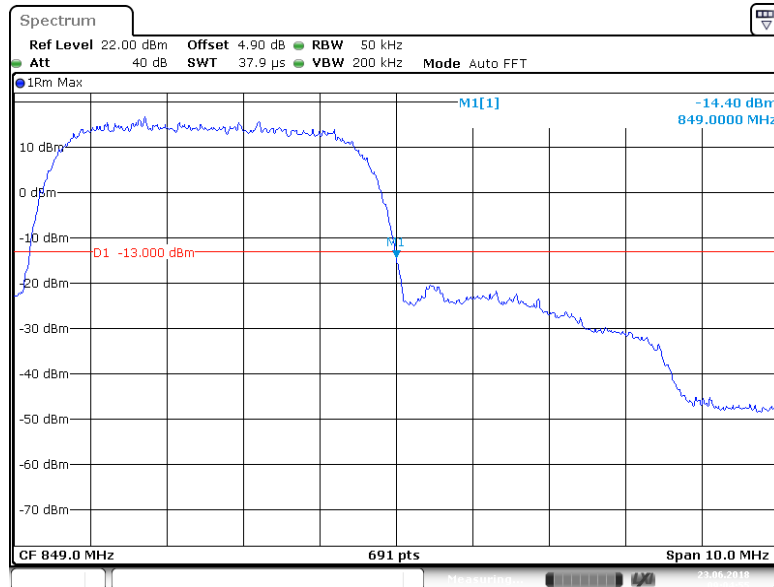
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BAND IV_1513



Date: 23 JUN 2018 09:04:30

BAND V_4132



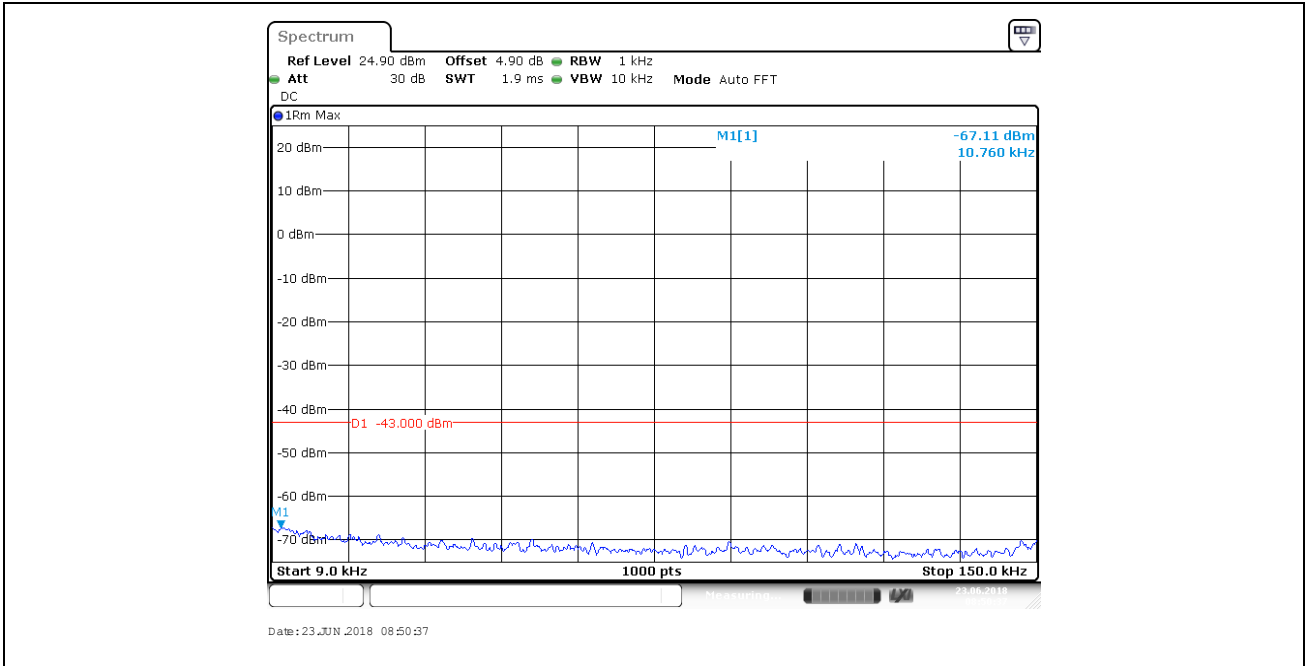
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BAND V_4233

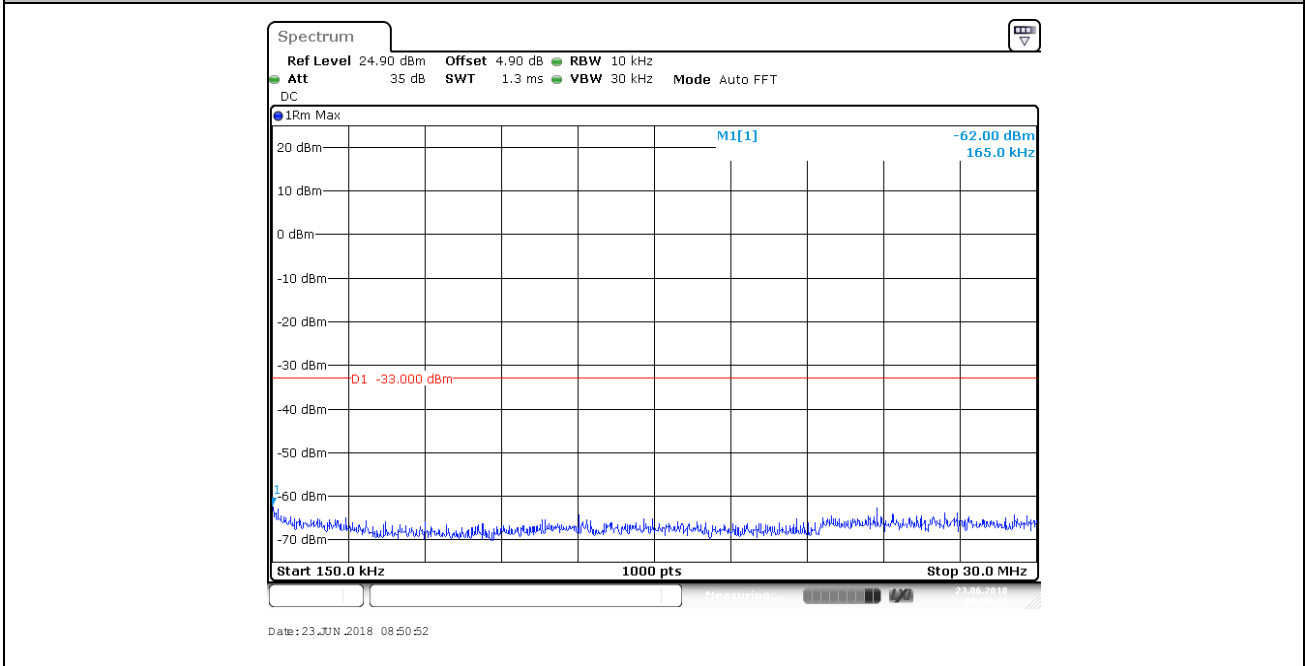


6. Conducted Spurious Emission

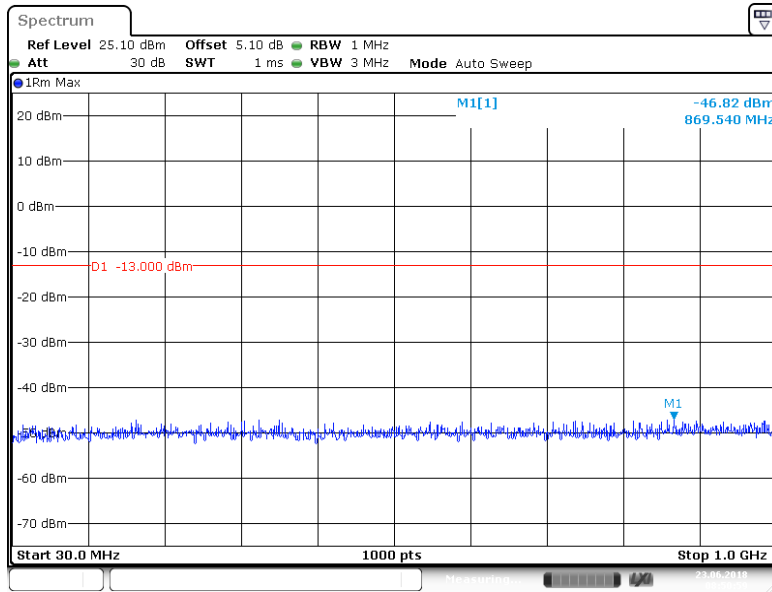
6.1. Test Plots



BAND II_9262

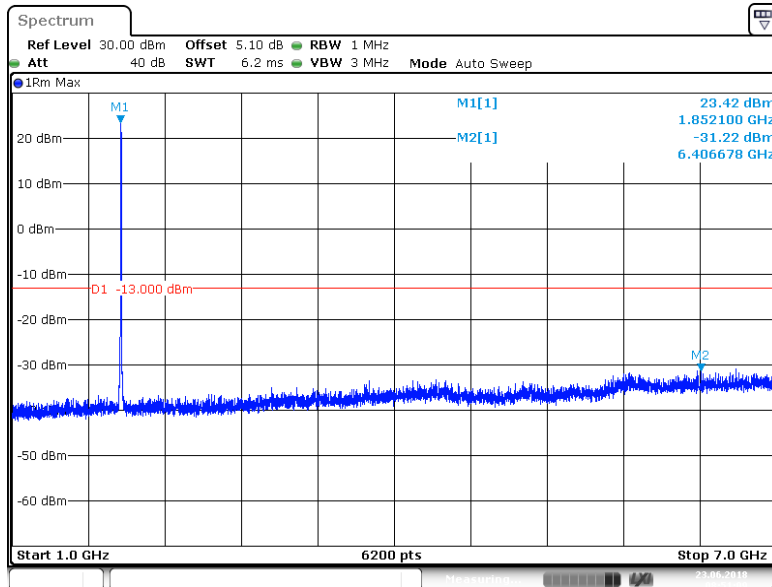


BAND II_9262



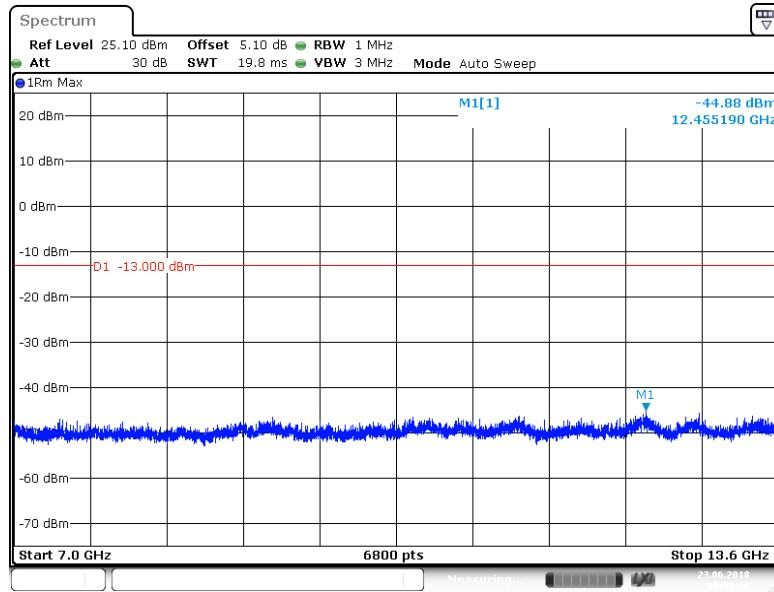
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BAND II_9262

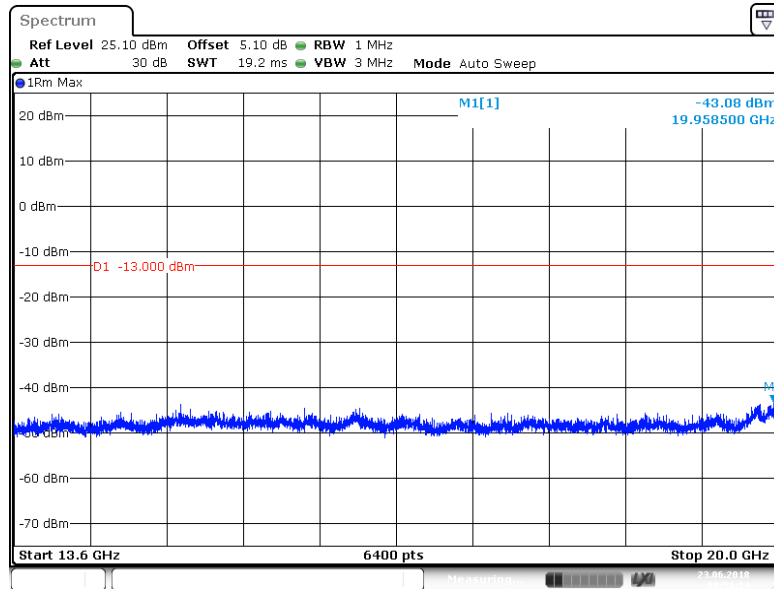


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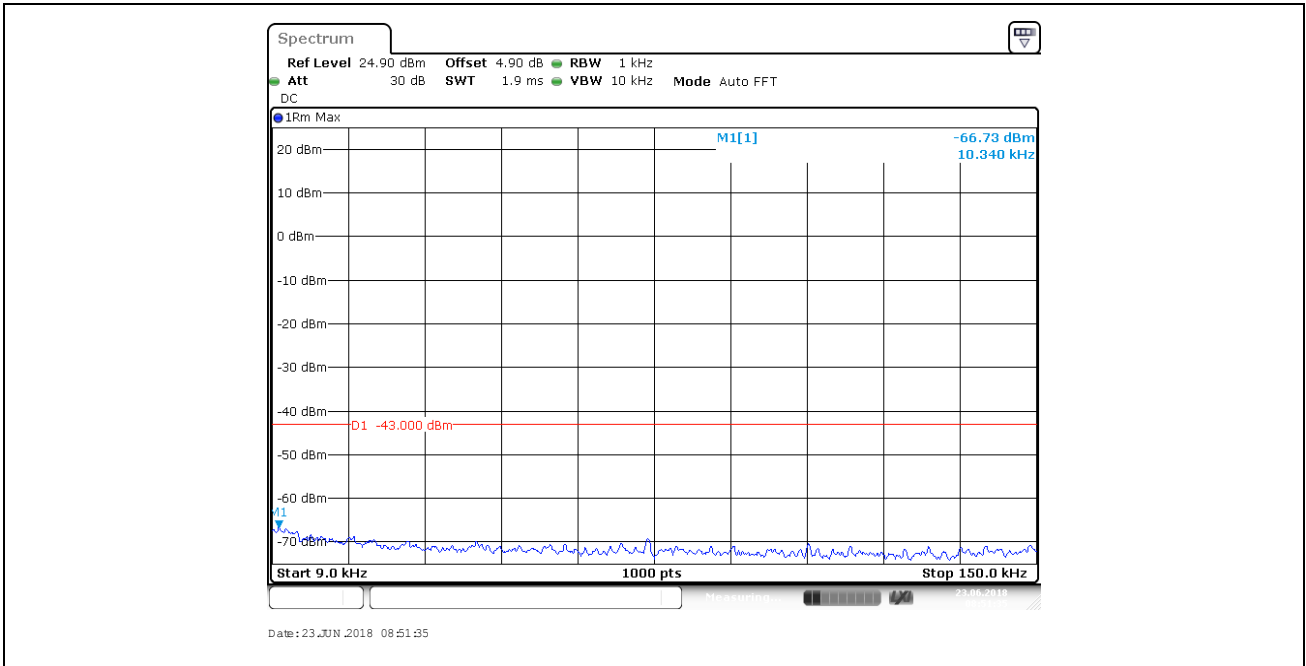
BAND II_9262



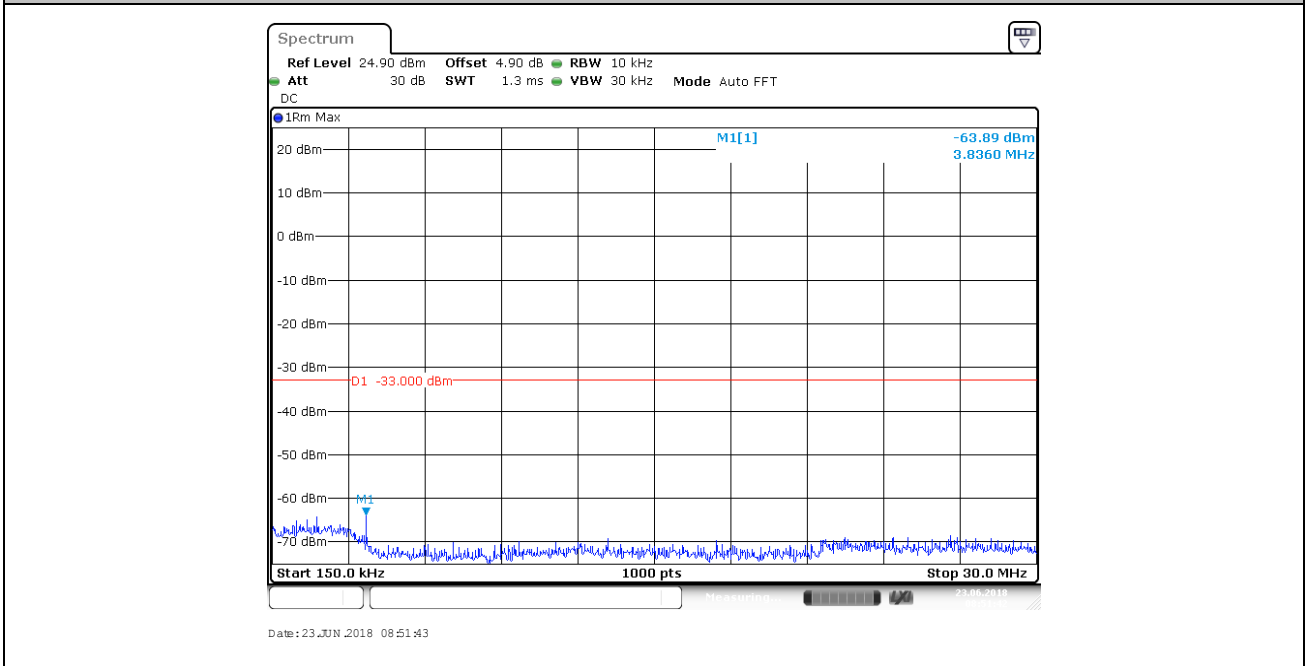
BAND II_9262



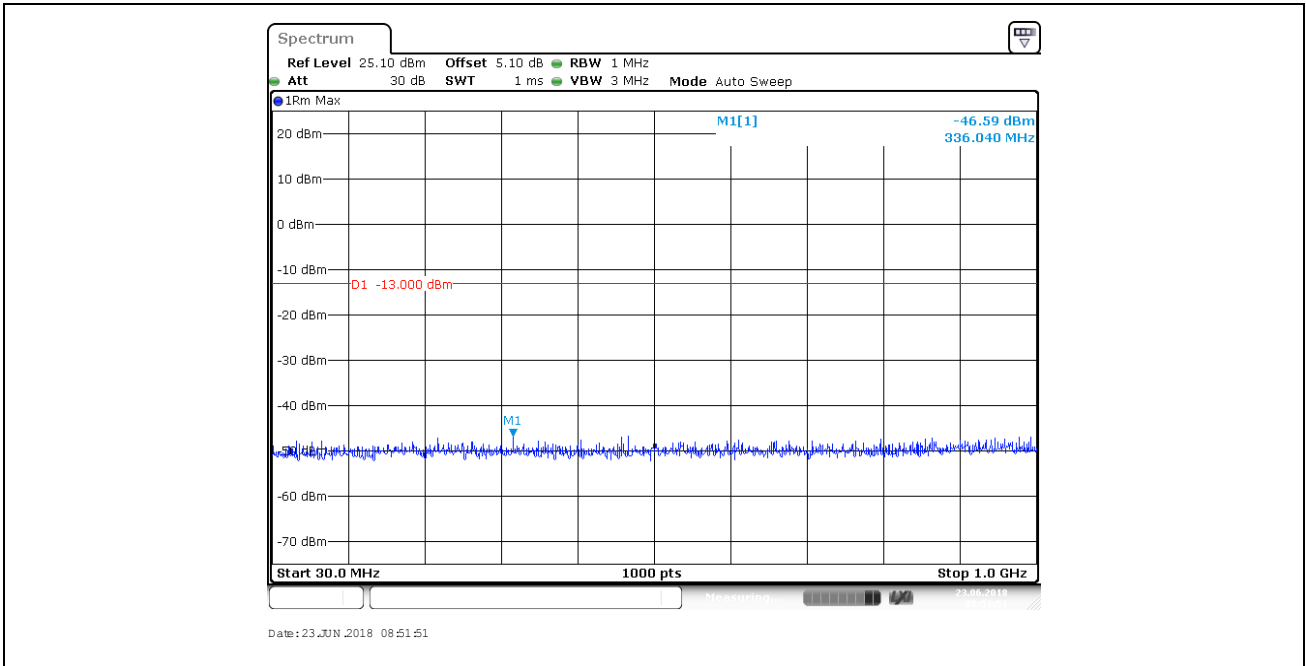
BAND II_9262



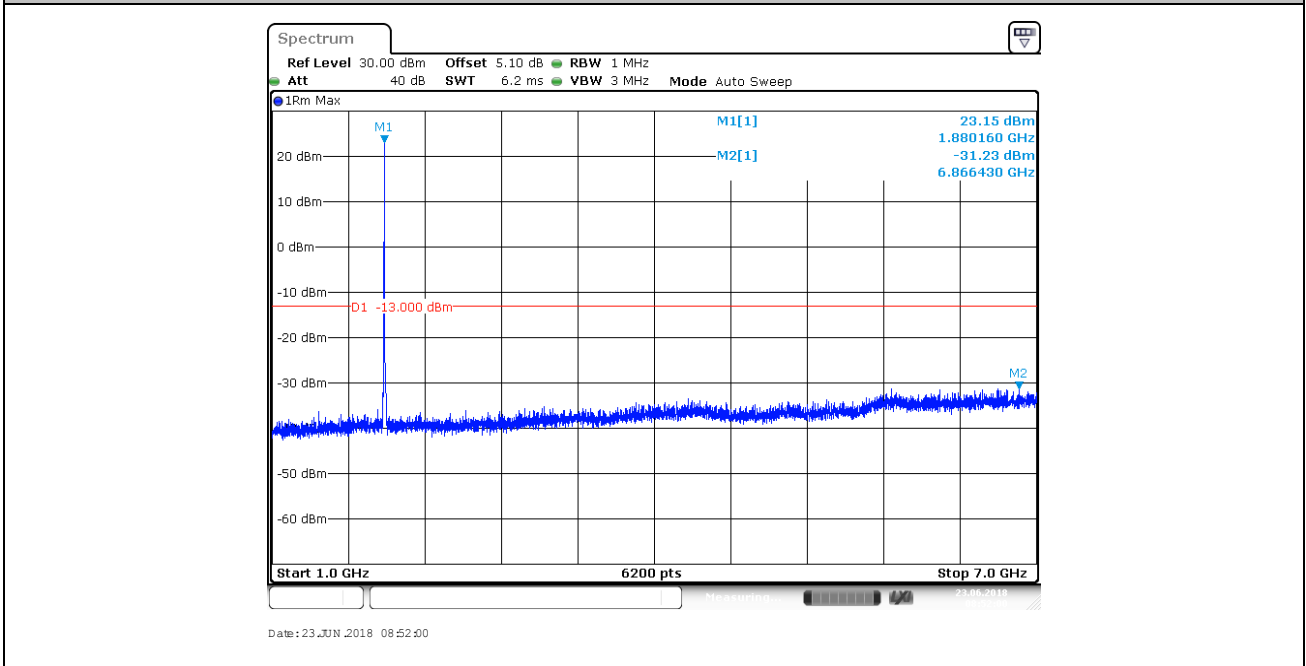
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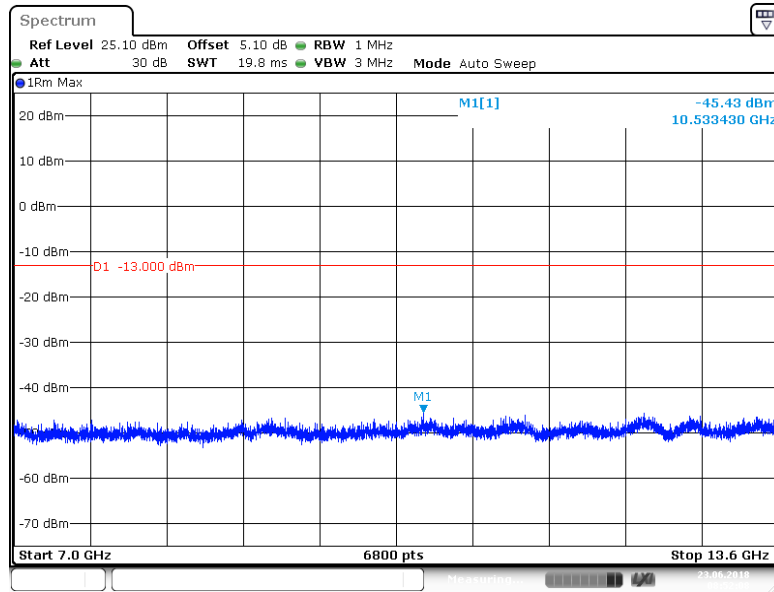
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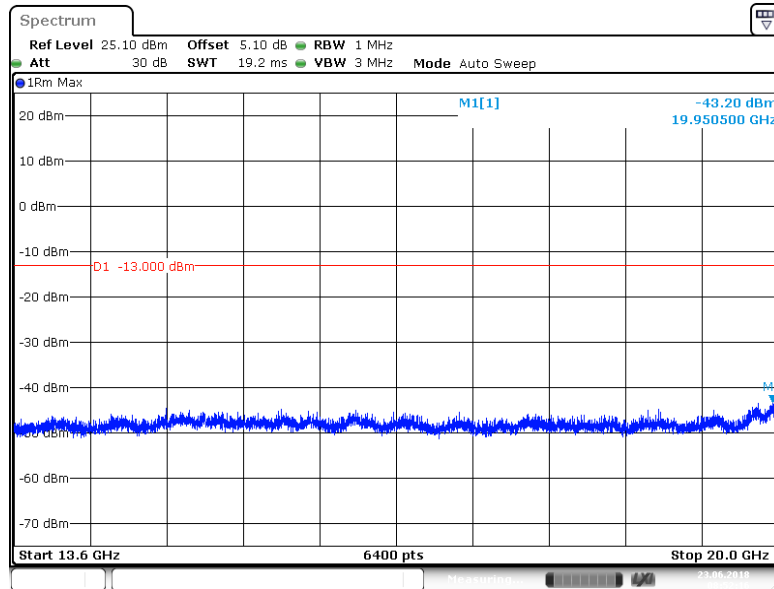
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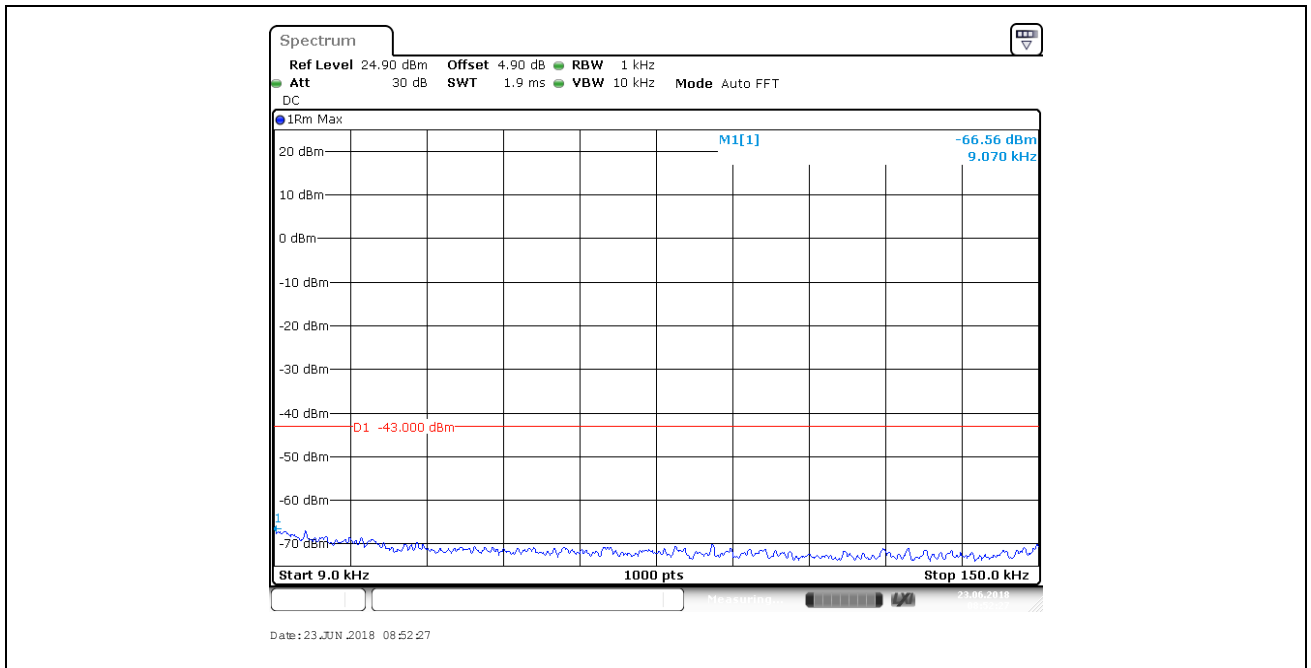
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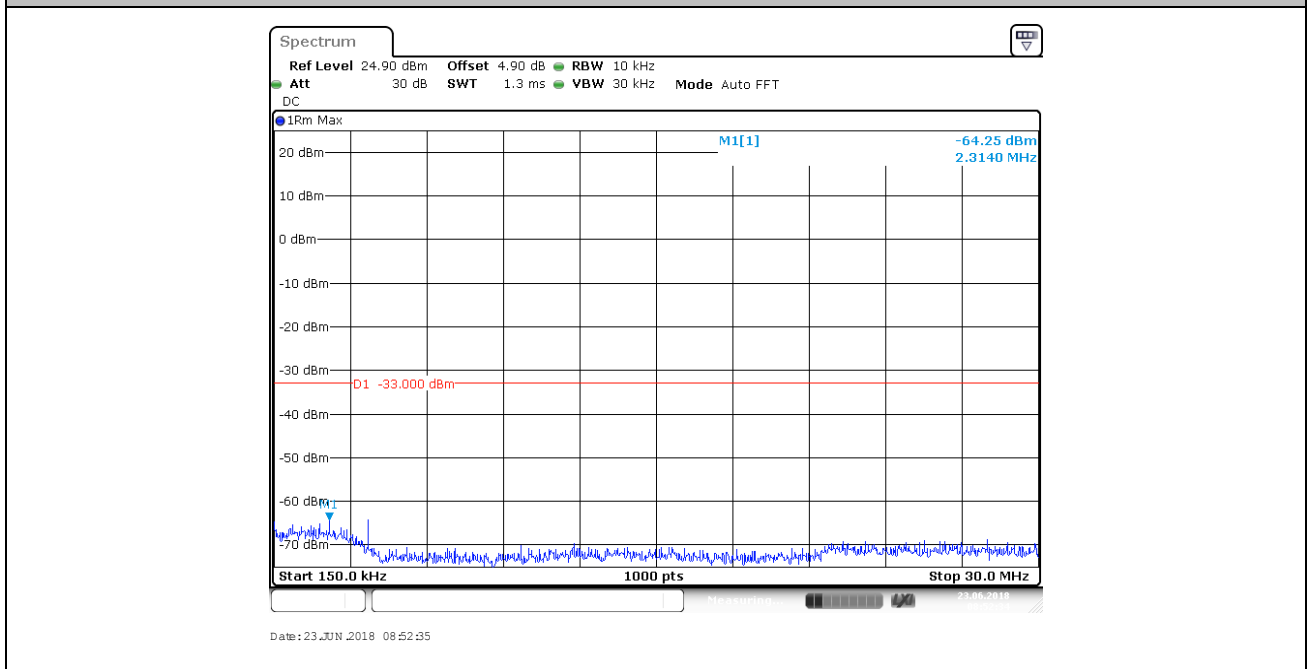
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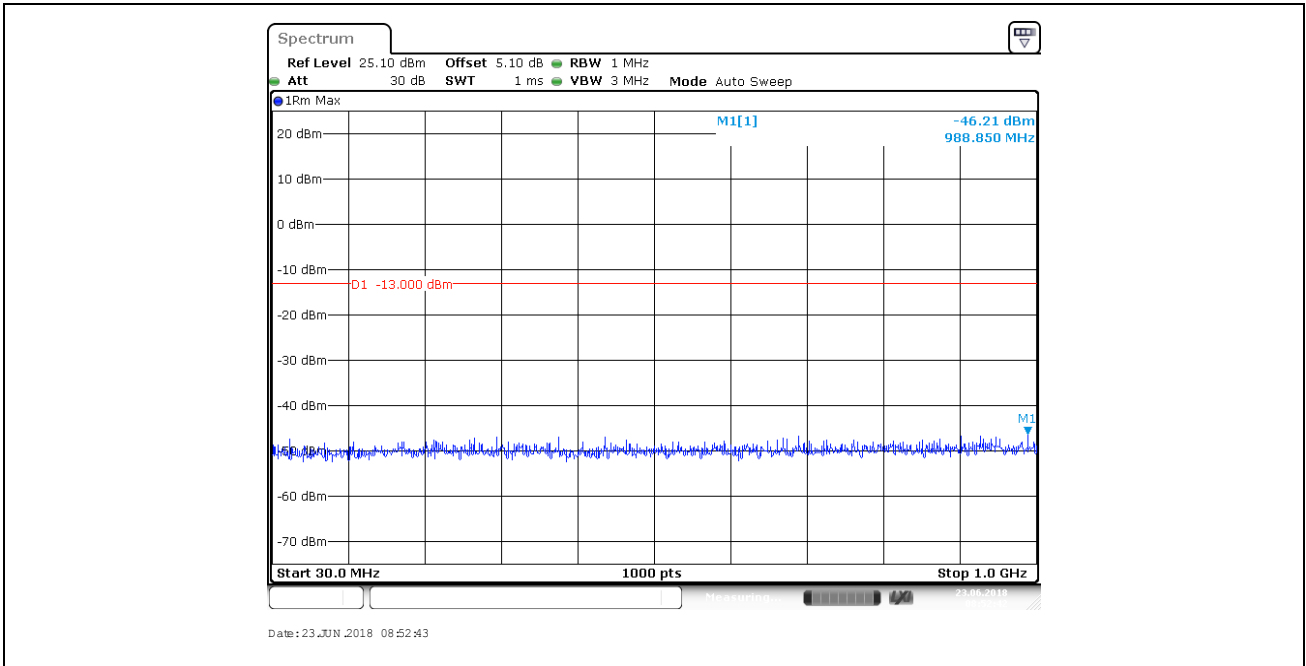
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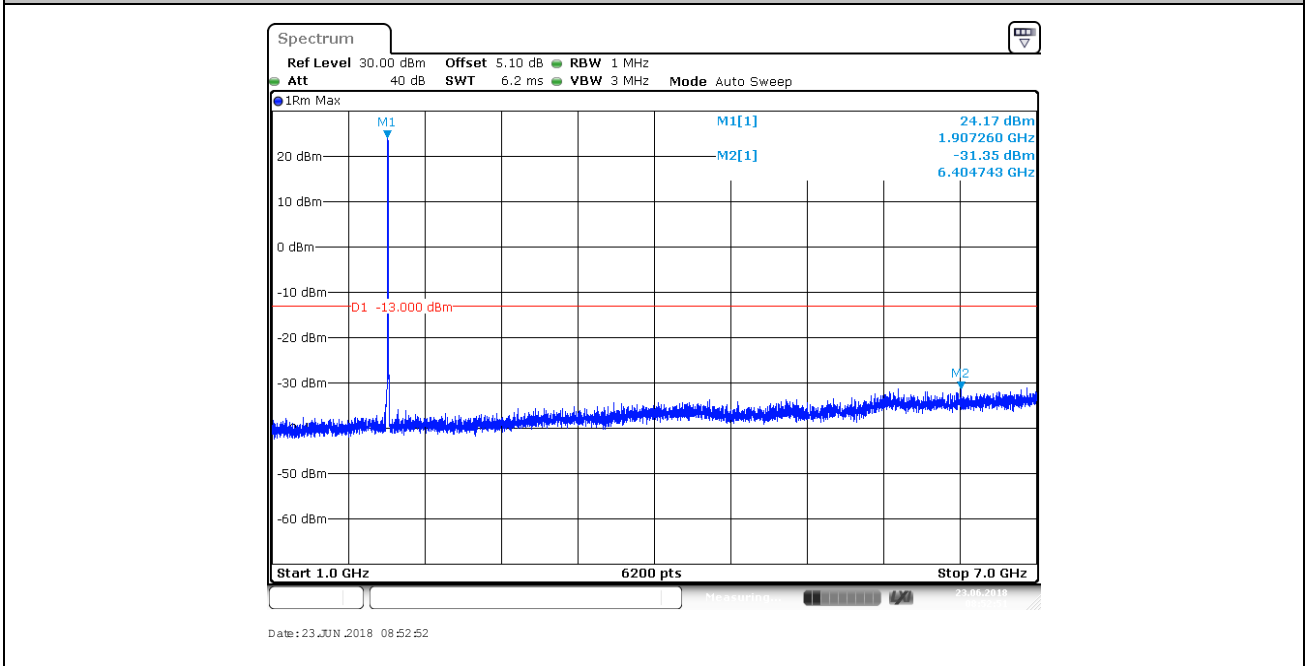
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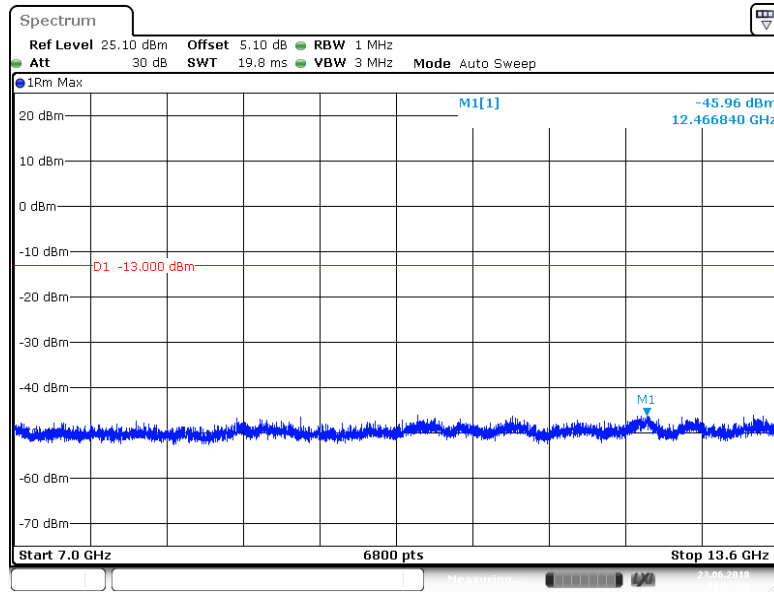
BAND II_9538



BAND II_9538

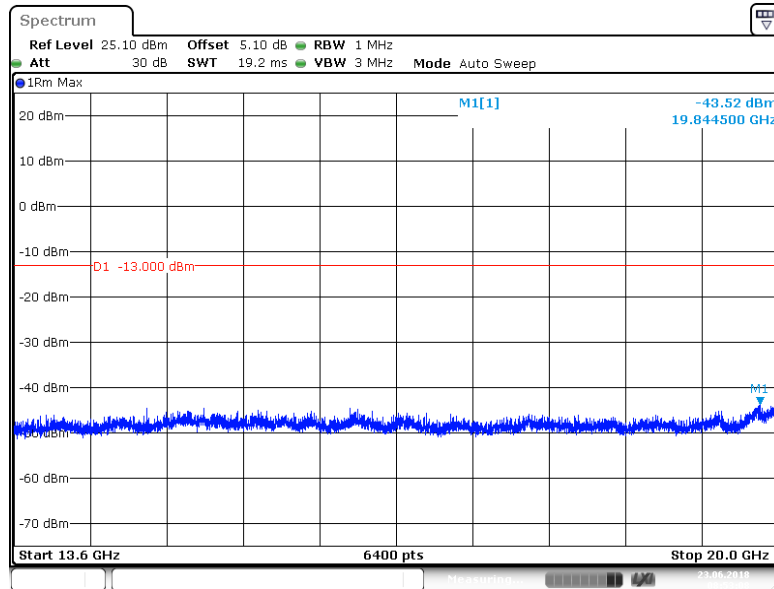


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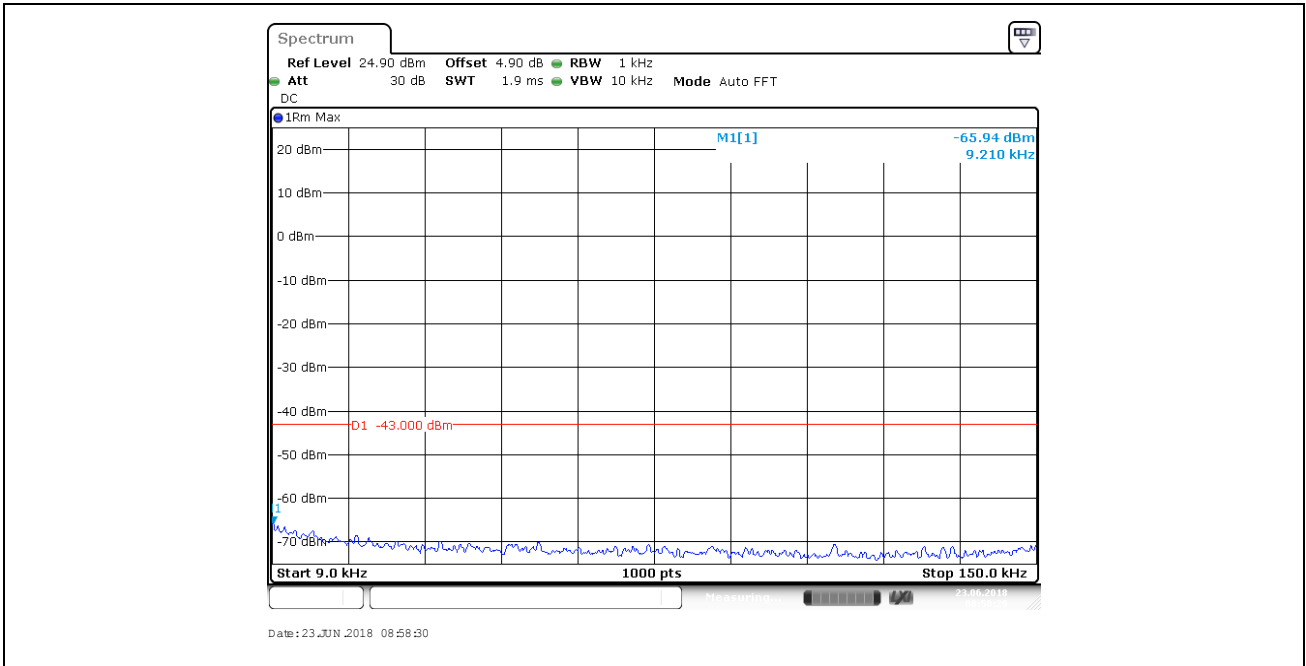
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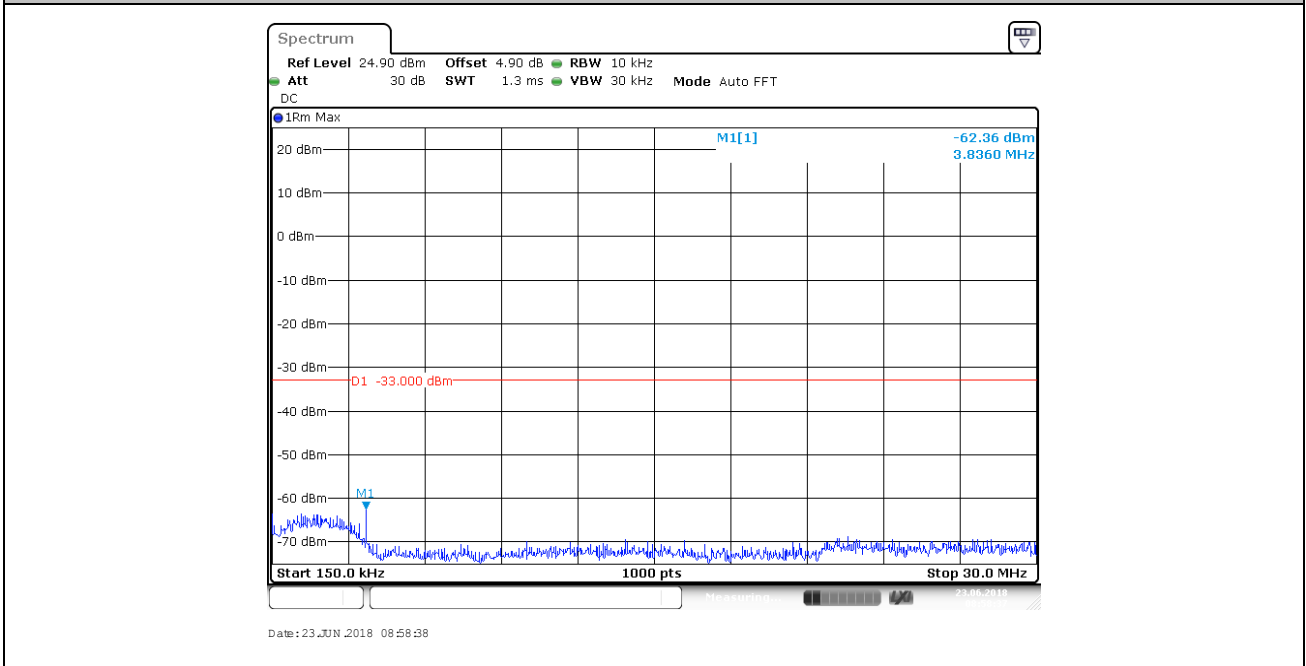


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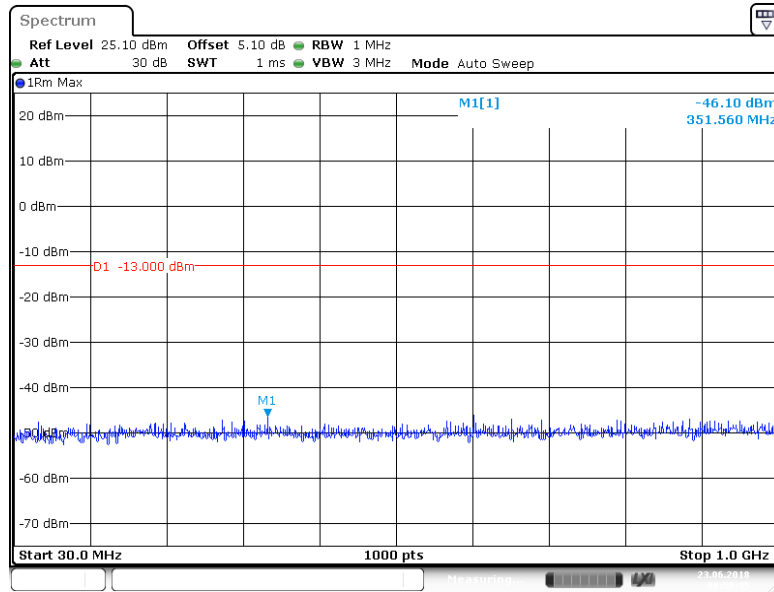
BAND II_9538



BAND IV_1312

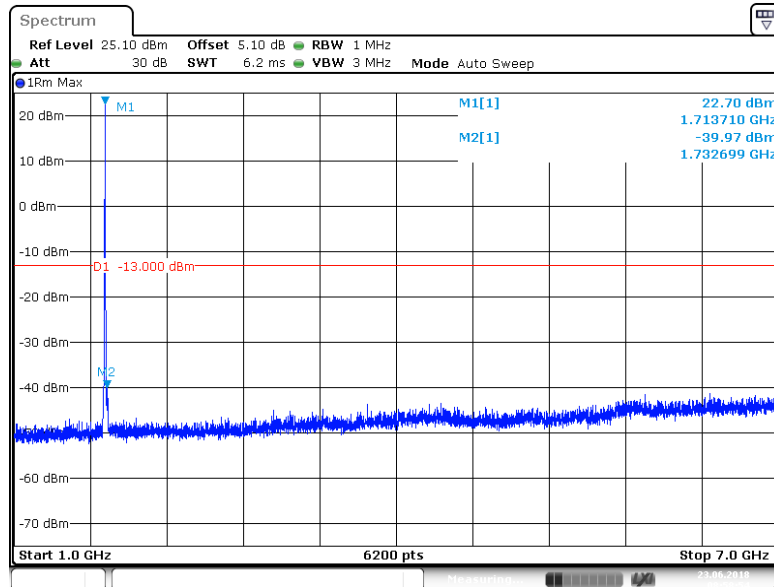


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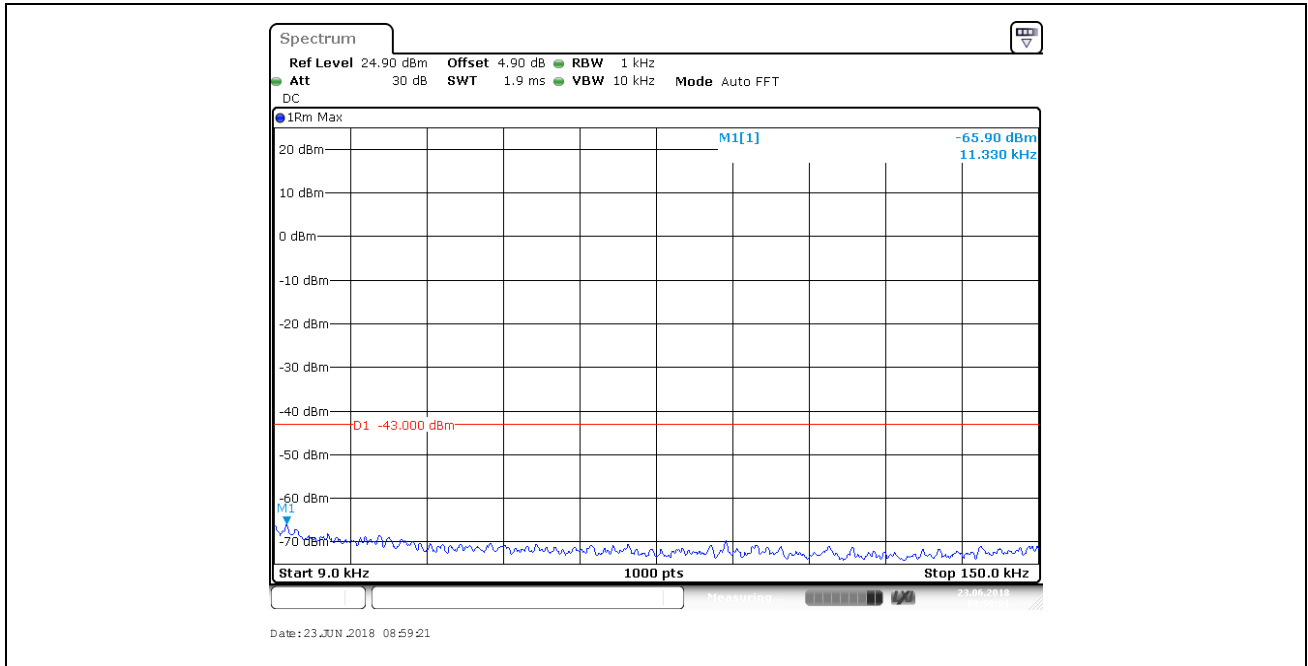
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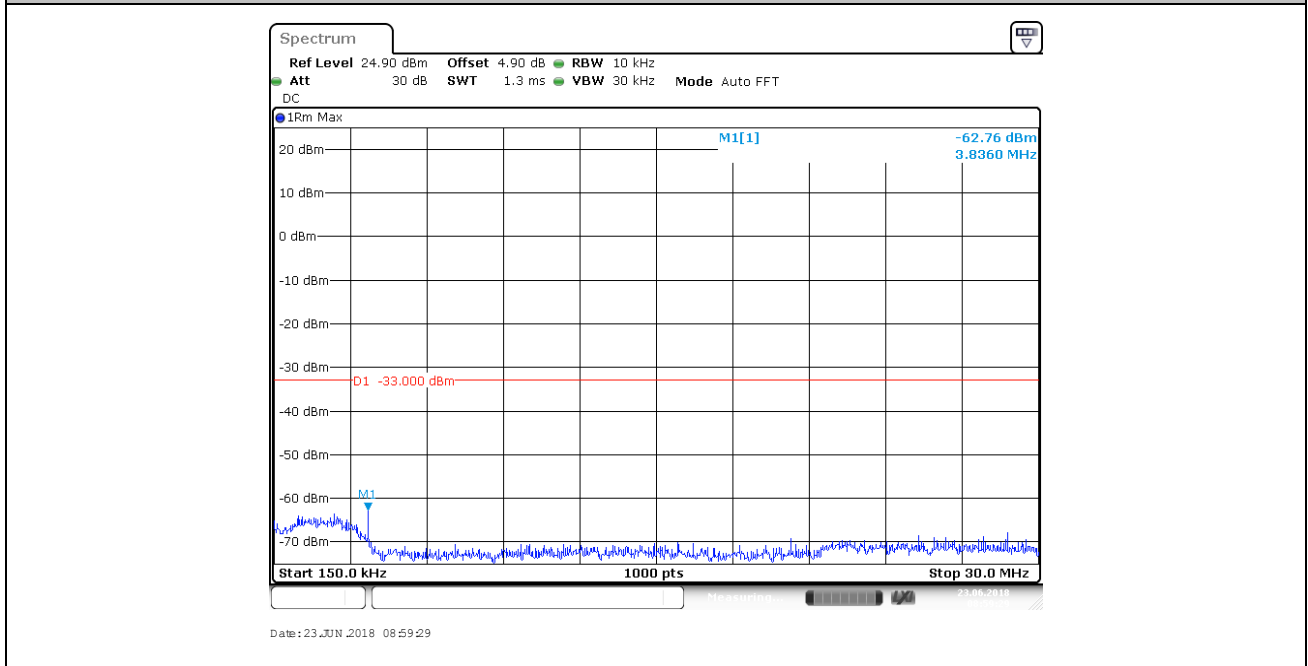


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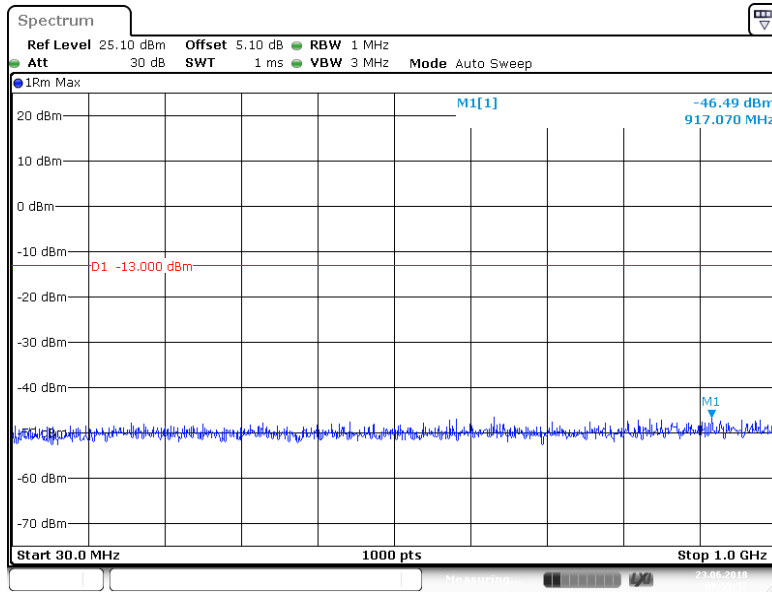
BAND IV_1312



BAND IV_1413

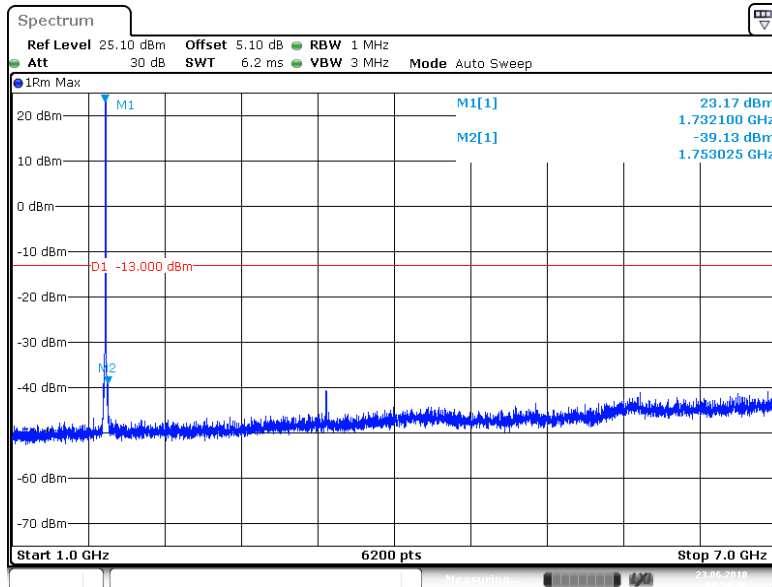


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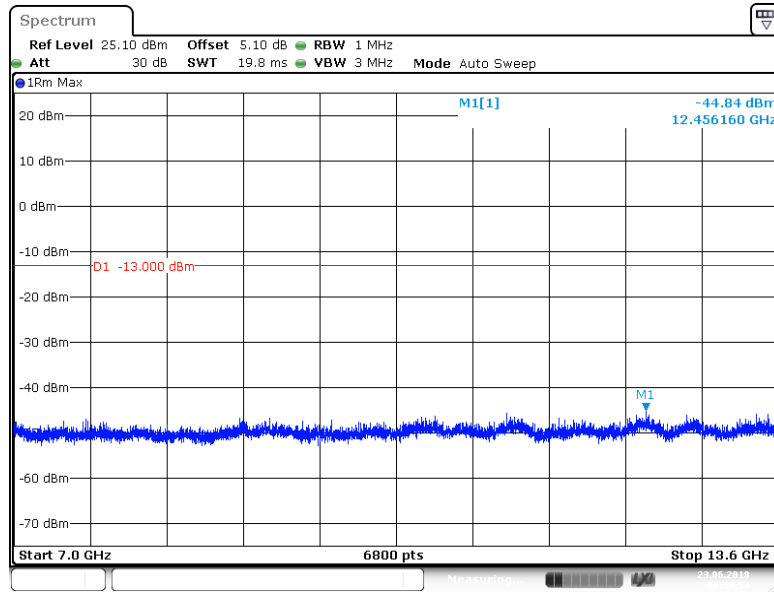
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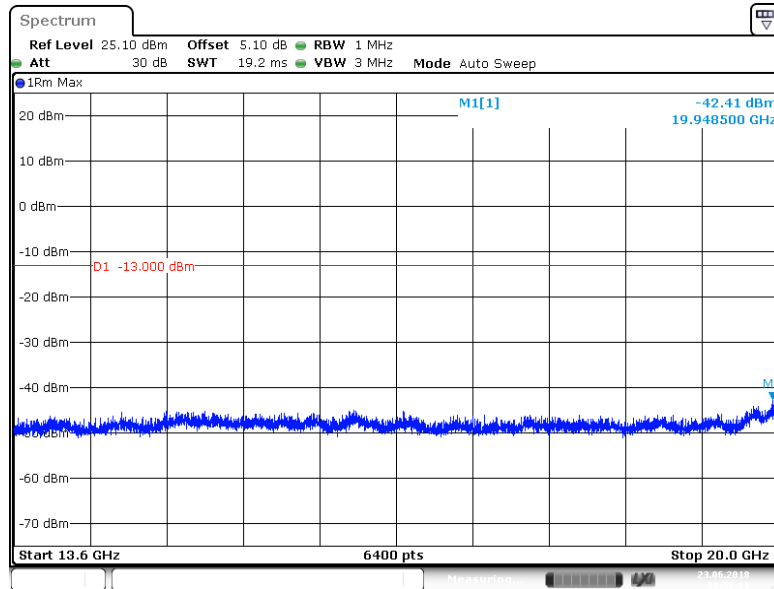
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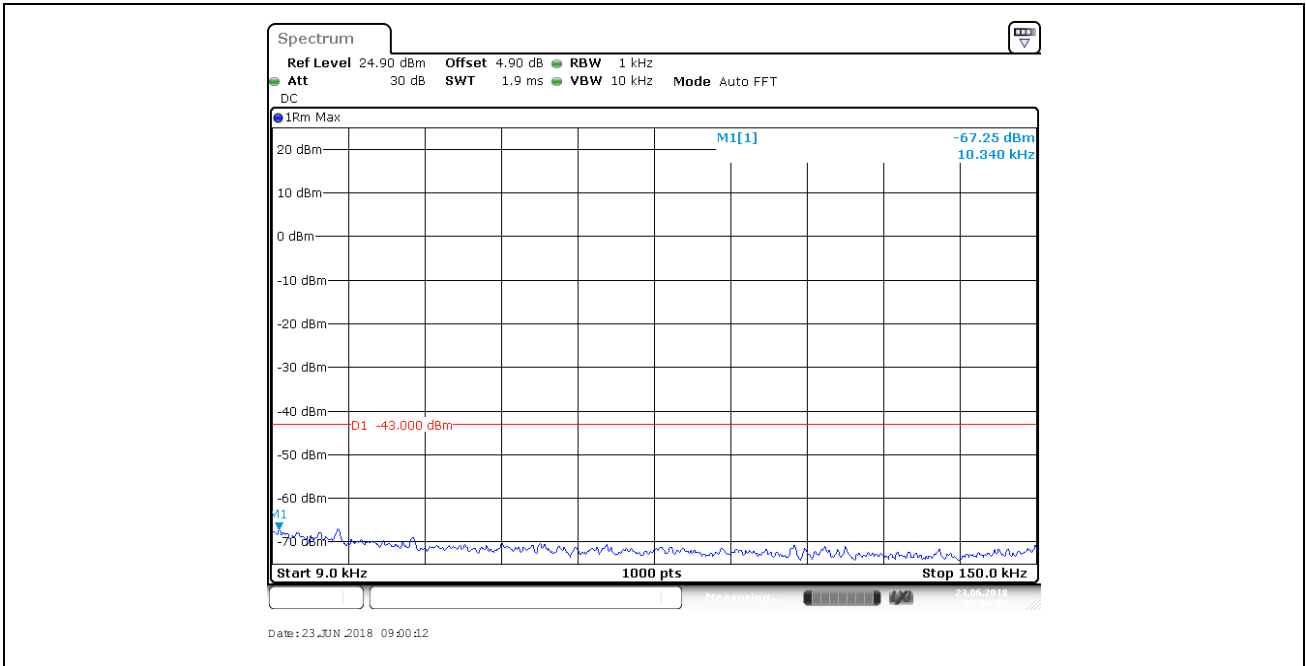
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BAND IV_1413

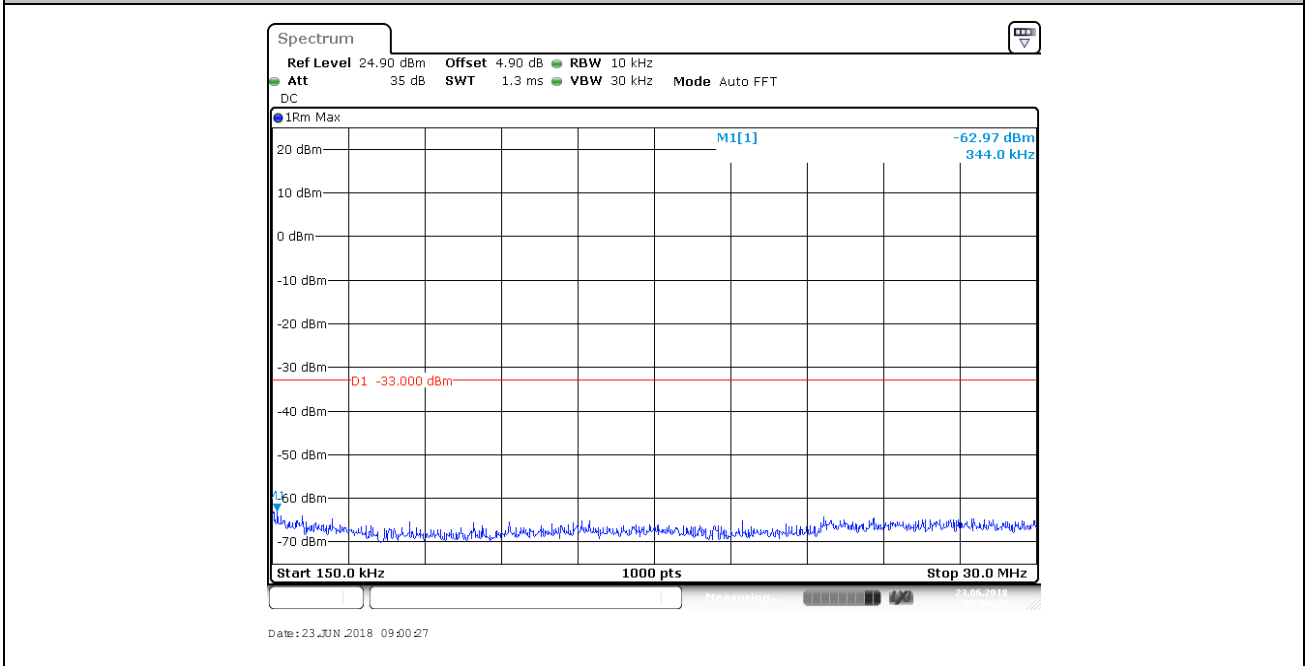


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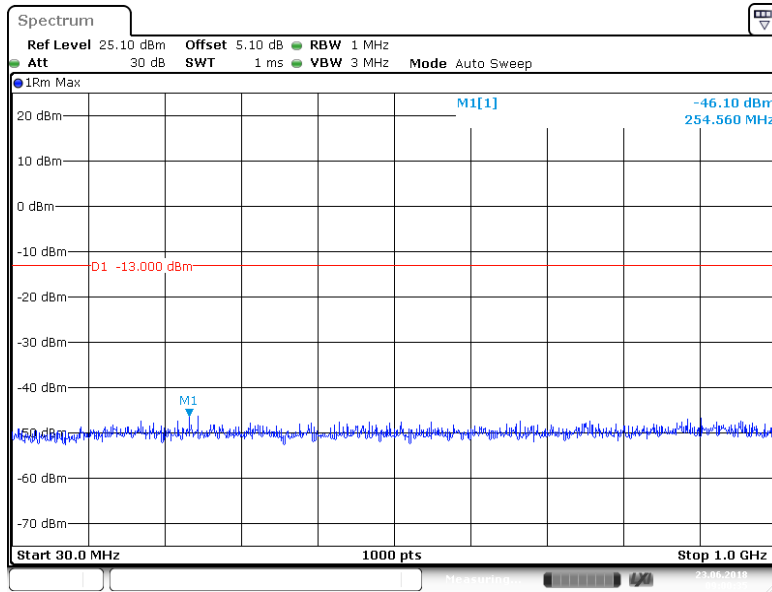
BAND IV_1413



BAND IV_1513

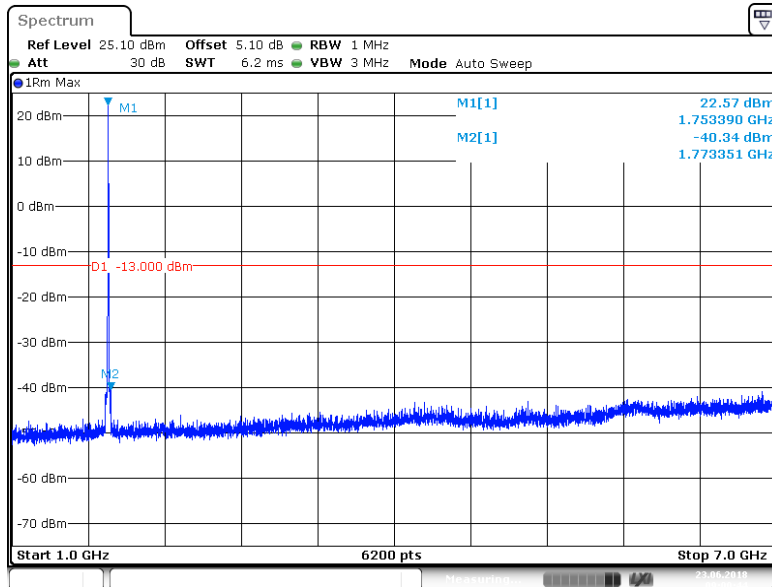


BAND IV_1513



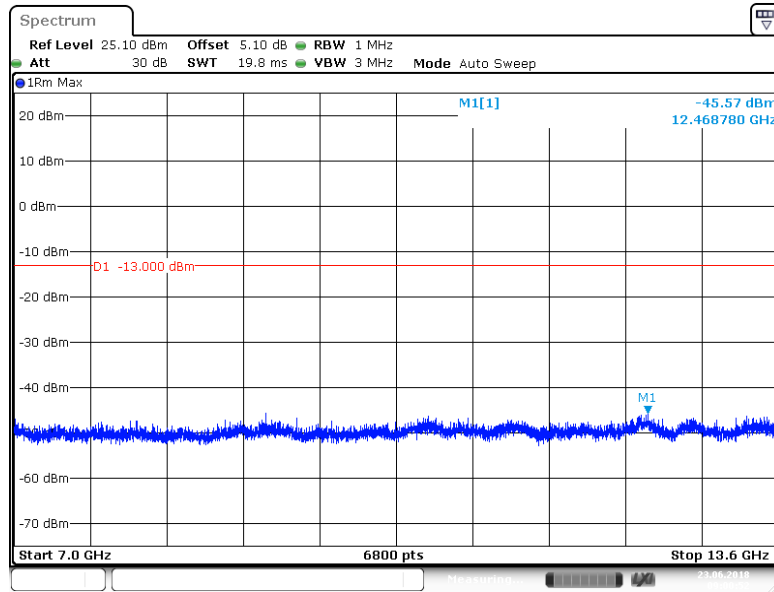
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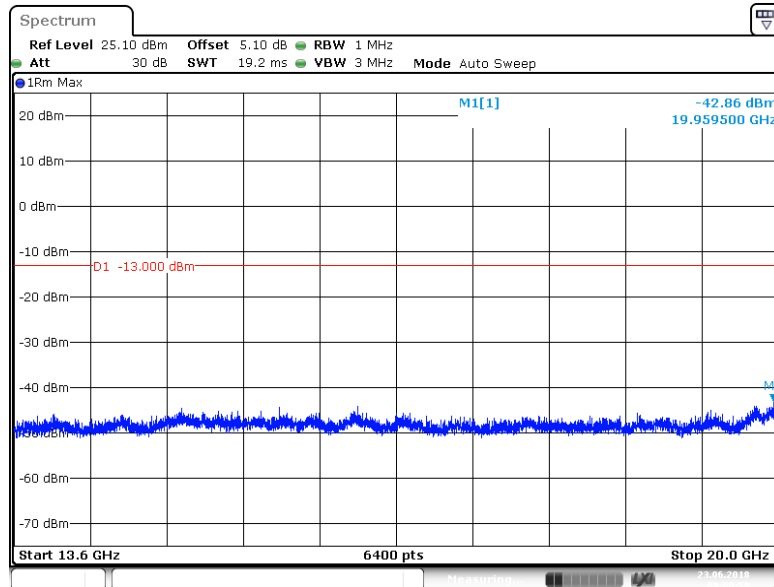
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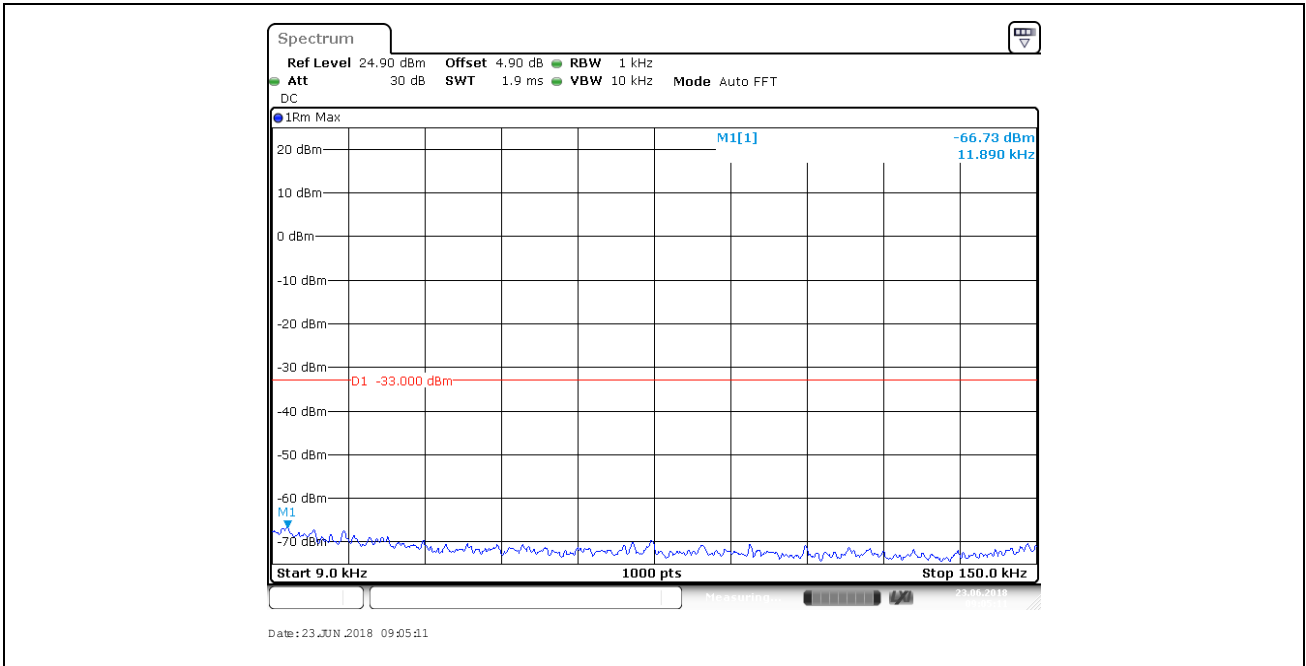
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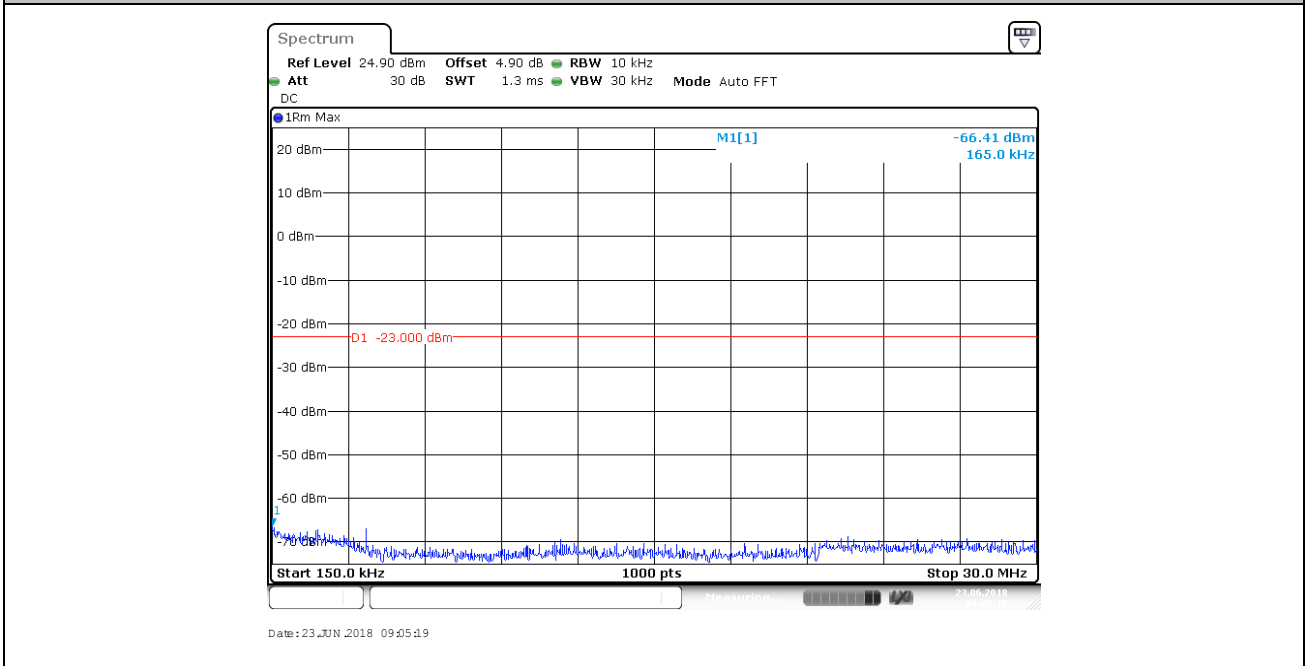


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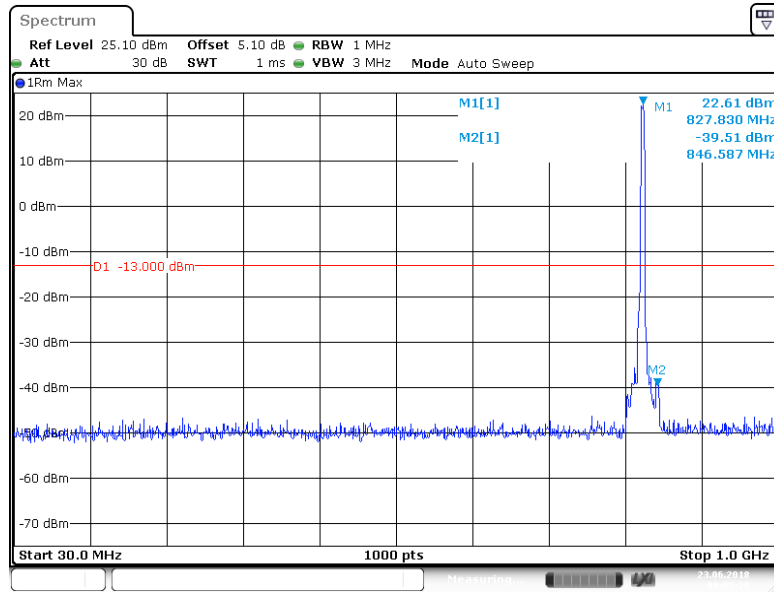
BAND IV_1513



BAND V_4132

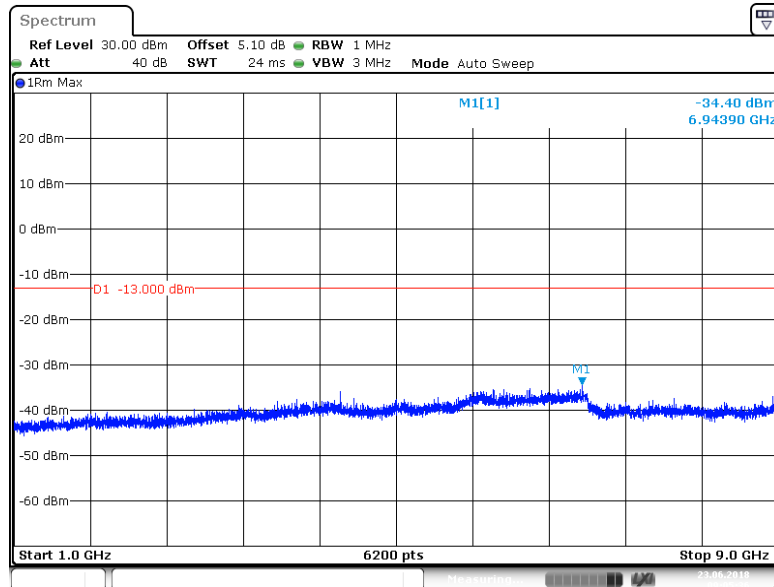


BAND V_4132



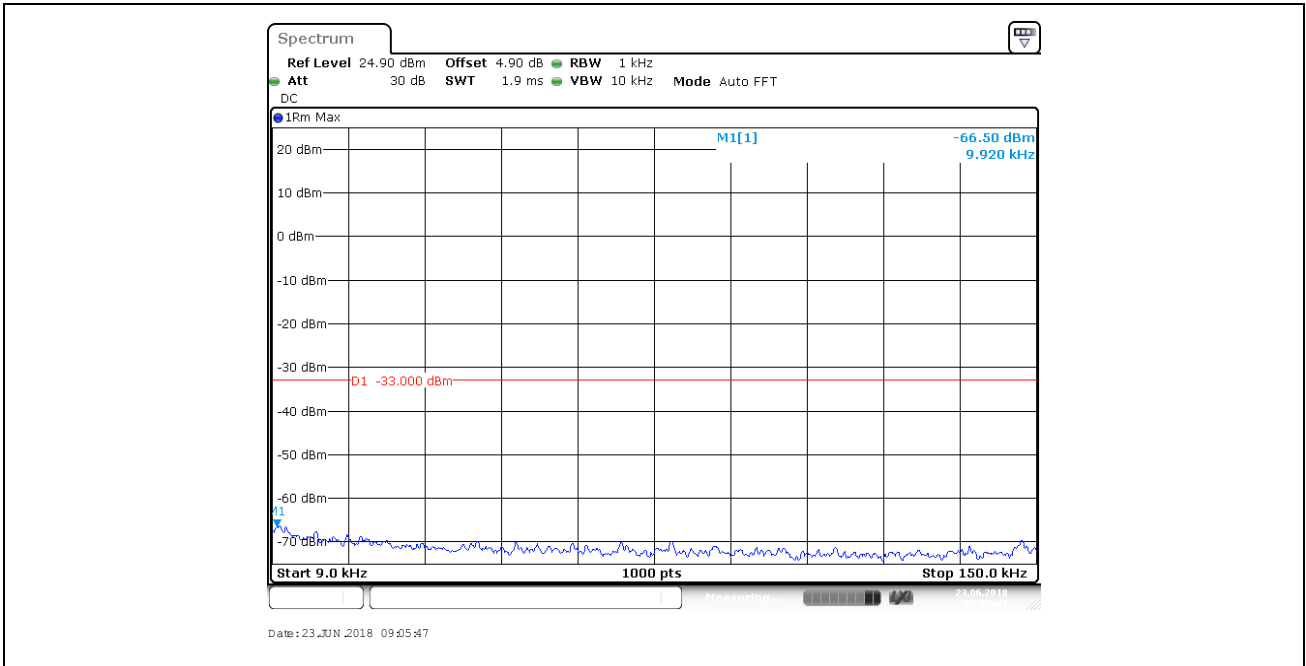
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BAND V_4132

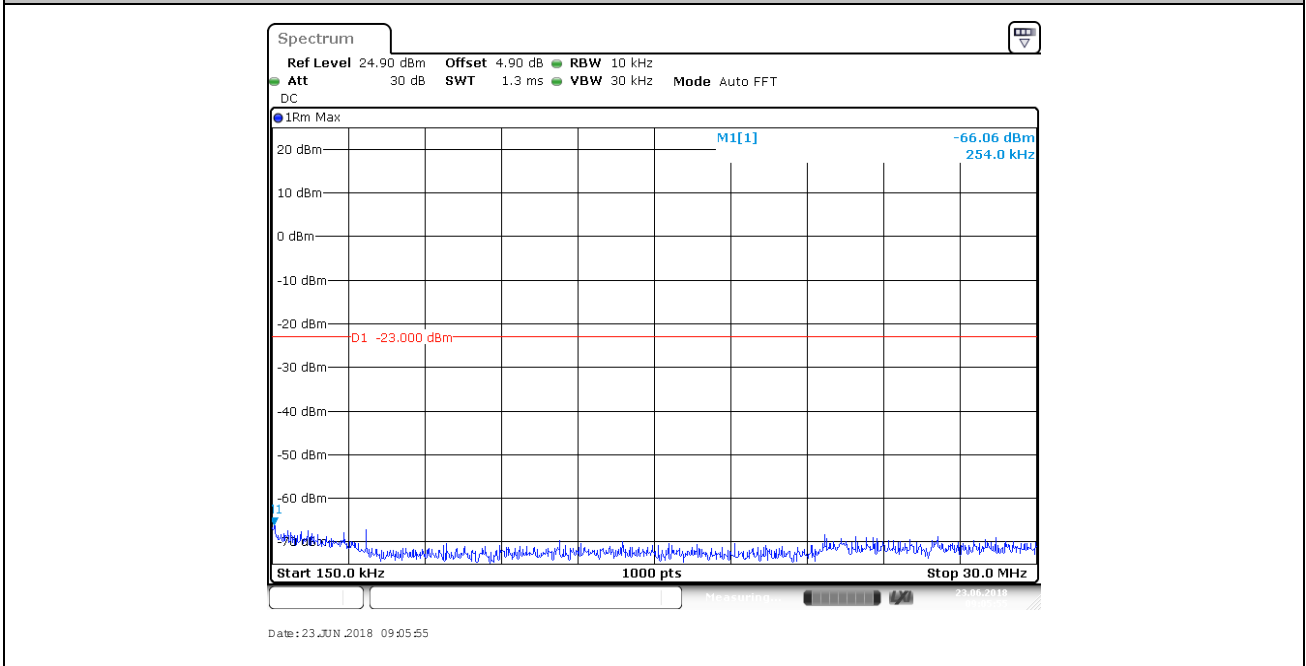


Date: 23 JUN 2018 09:05:36

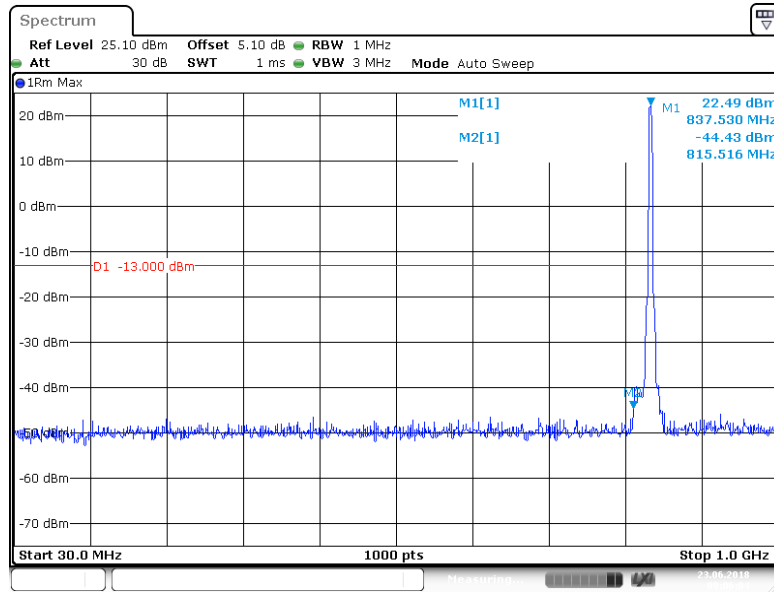
BAND V_4132



BAND V_4182

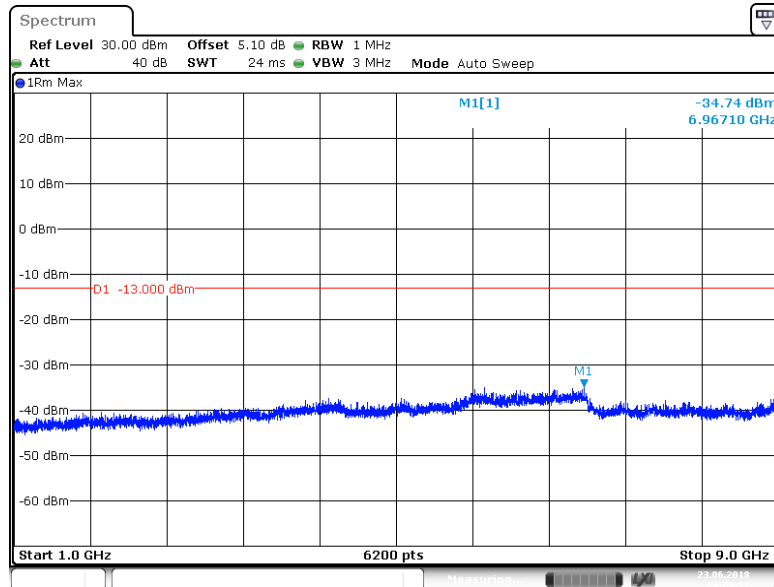


BAND V_4182



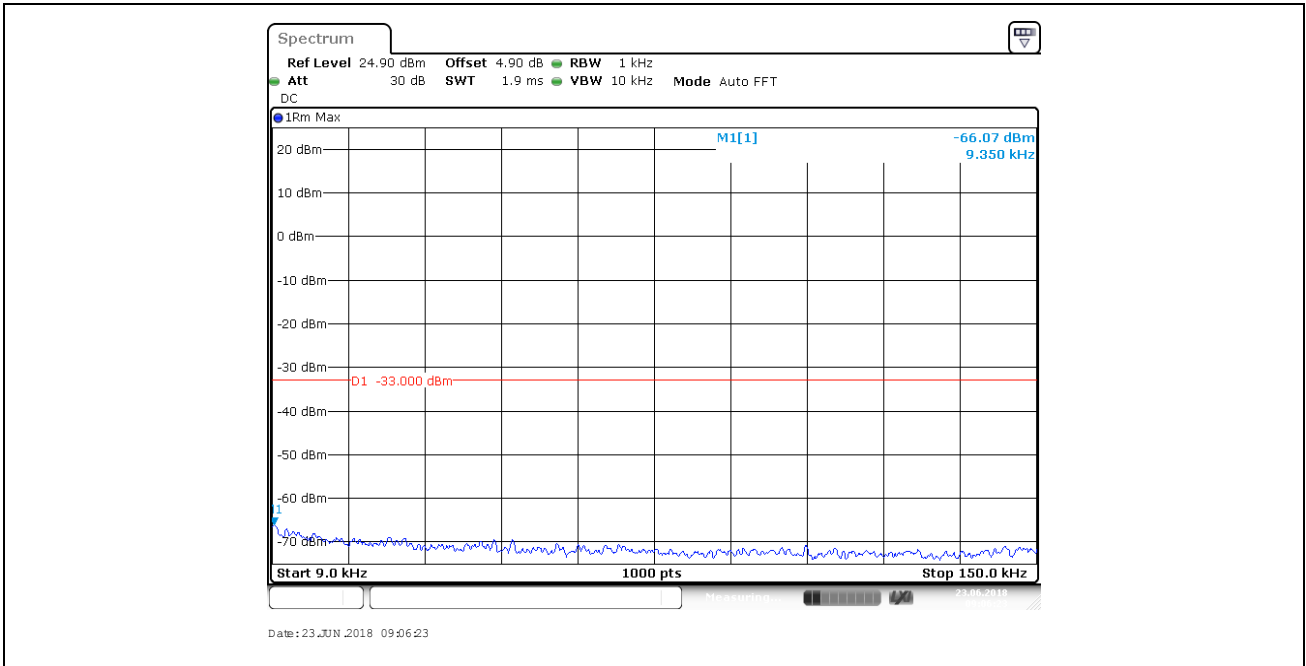
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BAND V_4182

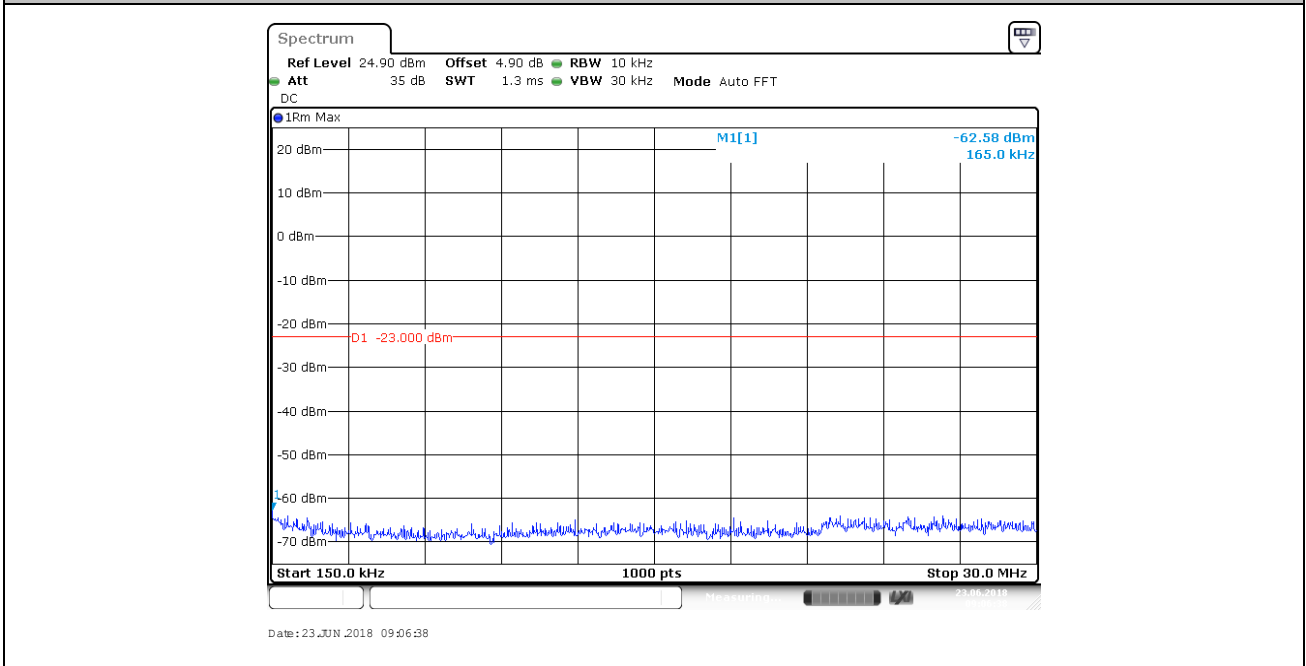


Date: 23 JUN 2018 09:06:13

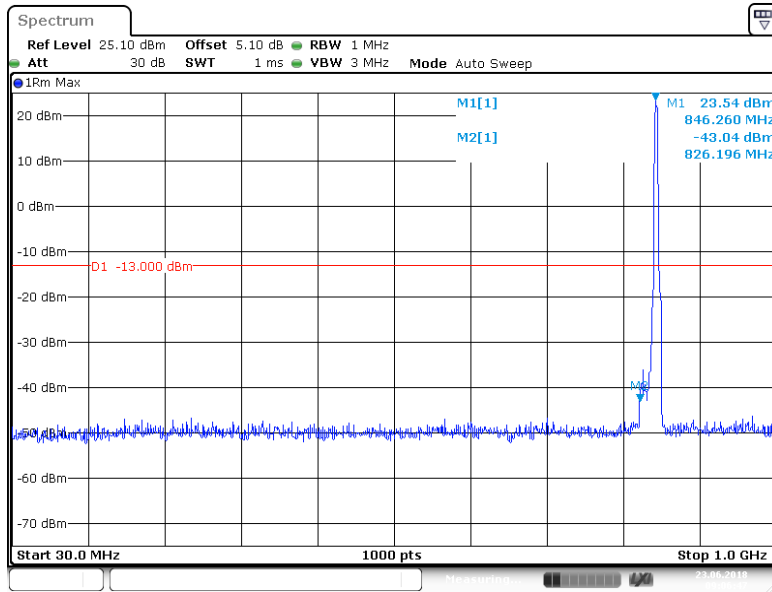
BAND V_4182



BAND V_4233

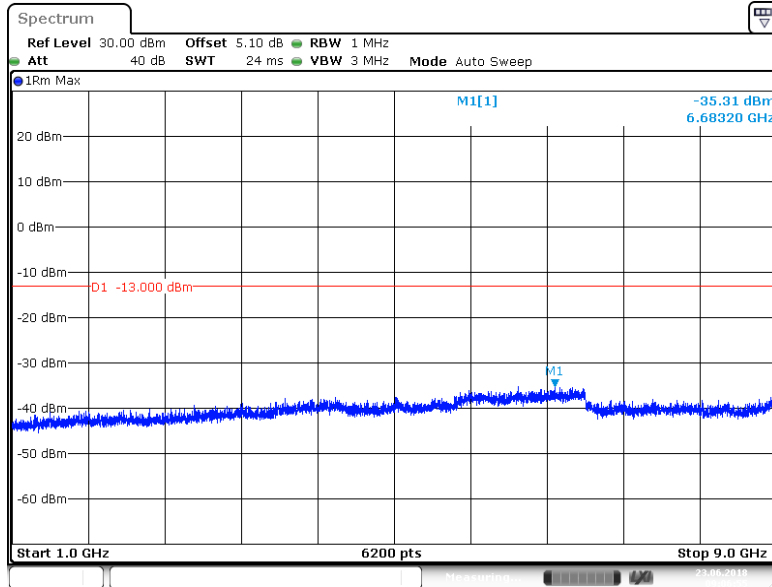


BAND V_4233



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BAND V_4233



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BAND V_4233



7. Field Strength of Spurious Radiation

Part I - Test Plots

7.1. For WCDMA

7.1.1. Test Band = WCDMA BAND II

7.1.1.1. Test Mode = UMTS/TM1

7.1.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
69.200000	-75.15	-13.00	62.15	Vertical
181.800000	-78.55	-13.00	65.55	Vertical
474.291667	-84.43	-13.00	71.43	Vertical
3706.387500	-62.76	-13.00	49.76	Vertical
7241.250000	-64.47	-13.00	51.47	Vertical
10628.400000	-63.12	-13.00	50.12	Vertical
62.700000	-76.53	-13.00	63.53	Horizontal
159.700000	-71.52	-13.00	58.52	Horizontal
288.000000	-85.40	-13.00	72.40	Horizontal
3864.825000	-63.27	-13.00	50.27	Horizontal
6028.837500	-65.27	-13.00	52.27	Horizontal
7853.062500	-63.90	-13.00	50.90	Horizontal

7.1.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
69.200000	-75.68	-13.00	62.68	Vertical
179.950000	-78.62	-13.00	65.62	Vertical
307.200000	-80.21	-13.00	67.21	Vertical
3758.062500	-63.94	-13.00	50.94	Vertical
5078.700000	-66.35	-13.00	53.35	Vertical
6518.775000	-65.07	-13.00	52.07	Vertical
62.850000	-77.37	-13.00	64.37	Horizontal



180.900000	-71.48	-13.00	58.48	Horizontal
307.200000	-84.79	-13.00	71.79	Horizontal
3919.912500	-62.16	-13.00	49.16	Horizontal
5929.387500	-65.89	-13.00	52.89	Horizontal
7955.437500	-63.70	-13.00	50.70	Horizontal

7.1.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.650000	-75.23	-13.00	62.23	Vertical
181.000000	-78.80	-13.00	65.80	Vertical
291.850000	-83.26	-13.00	70.26	Vertical
3816.562500	-63.90	-13.00	50.90	Vertical
6154.612500	-64.99	-13.00	51.99	Vertical
8616.000000	-63.63	-13.00	50.63	Vertical
63.900000	-76.91	-13.00	63.91	Horizontal
160.650000	-72.22	-13.00	59.22	Horizontal
406.300000	-86.75	-13.00	73.75	Horizontal
3814.612500	-66.30	-13.00	53.30	Horizontal
5499.412500	-66.60	-13.00	53.60	Horizontal
7832.587500	-63.87	-13.00	50.87	Horizontal

7.1.2. Test Band = WCDMA BAND IV

7.1.2.1. Test Mode = UMTS/TM1

7.1.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.500000	-74.77	-13.00	61.77	Vertical
364.550000	-73.03	-13.00	60.03	Vertical
1363.000000	-58.56	-13.00	45.56	Vertical
3426.562500	-56.03	-13.00	43.03	Vertical
5185.950000	-66.94	-13.00	53.94	Vertical



6953.625000	-64.90	-13.00	51.90	Vertical
62.400000	-77.57	-13.00	64.57	Horizontal
161.550000	-72.27	-13.00	59.27	Horizontal
288.000000	-85.57	-13.00	72.57	Horizontal
3426.562500	-56.99	-13.00	43.99	Horizontal
5049.450000	-66.50	-13.00	53.50	Horizontal
7853.062500	-63.95	-13.00	50.95	Horizontal

7.1.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
69.200000	-75.80	-13.00	62.80	Vertical
119.550000	-80.51	-13.00	67.51	Vertical
288.000000	-83.84	-13.00	70.84	Vertical
3462.637500	-55.38	-13.00	42.38	Vertical
6059.550000	-65.09	-13.00	52.09	Vertical
8605.762500	-64.25	-13.00	51.25	Vertical
62.450000	-77.33	-13.00	64.33	Horizontal
158.750000	-72.42	-13.00	59.42	Horizontal
284.150000	-85.32	-13.00	72.32	Horizontal
3462.637500	-58.30	-13.00	45.30	Horizontal
5569.612500	-67.29	-13.00	54.29	Horizontal
7941.300000	-63.90	-13.00	50.90	Horizontal

7.1.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
69.650000	-77.67	-13.00	64.67	Vertical
159.750000	-80.60	-13.00	67.60	Vertical
364.600000	-85.79	-13.00	72.79	Vertical
3506.512500	-58.89	-13.00	45.89	Vertical
5136.225000	-66.56	-13.00	53.56	Vertical



7026.750000	-64.93	-13.00	51.93	Vertical
63.500000	-76.93	-13.00	63.93	Horizontal
159.750000	-73.13	-13.00	60.13	Horizontal
547.625000	-81.04	-13.00	68.04	Horizontal
3503.100000	-60.89	-13.00	47.89	Horizontal
6478.312500	-65.25	-13.00	52.25	Horizontal
8596.500000	-64.42	-13.00	51.42	Horizontal

7.1.3. Test Band = WCDMA BAND V

7.1.3.1. Test Mode = UMTS/TM1

7.1.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
71.750000	-76.88	-13.00	63.88	Vertical
159.800000	-81.72	-13.00	68.72	Vertical
547.762500	-79.83	-13.00	66.83	Vertical
1657.000000	-65.21	-13.00	52.21	Vertical
2427.500000	-59.15	-13.00	46.15	Vertical
6249.675000	-65.58	-13.00	52.58	Vertical
62.350000	-77.70	-13.00	64.70	Horizontal
159.900000	-74.29	-13.00	61.29	Horizontal
478.737500	-81.41	-13.00	68.41	Horizontal
1655.500000	-65.25	-13.00	52.25	Horizontal
2581.000000	-59.03	-13.00	46.03	Horizontal
5077.237500	-66.77	-13.00	53.77	Horizontal

7.1.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
71.900000	-75.11	-13.00	62.11	Vertical
181.850000	-79.25	-13.00	66.25	Vertical
546.433333	-79.81	-13.00	66.81	Vertical
1674.500000	-65.12	-13.00	52.12	Vertical



4304.550000	-66.97	-13.00	53.97	Vertical
7950.075000	-64.02	-13.00	51.02	Vertical
63.750000	-76.72	-13.00	63.72	Horizontal
178.150000	-72.99	-13.00	59.99	Horizontal
1674.500000	-65.19	-13.00	52.19	Horizontal
3525.037500	-68.33	-13.00	55.33	Horizontal
6053.212500	-65.45	-13.00	52.45	Horizontal
9248.775000	-63.98	-13.00	50.98	Horizontal

7.1.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.000000	-74.96	-13.00	61.96	Vertical
160.600000	-80.42	-13.00	67.42	Vertical
288.000000	-83.74	-13.00	70.74	Vertical
1656.500000	-65.19	-13.00	52.19	Vertical
2551.500000	-59.02	-13.00	46.02	Vertical
5813.850000	-66.51	-13.00	53.51	Vertical
63.300000	-77.18	-13.00	64.18	Horizontal
180.050000	-73.07	-13.00	60.07	Horizontal
471.954167	-81.62	-13.00	68.62	Horizontal
1688.000000	-65.00	-13.00	52.00	Horizontal
2513.000000	-59.58	-13.00	46.58	Horizontal
5626.162500	-67.11	-13.00	54.11	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and channels, but only the worst case data was displayed in this report.



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND II	9262	VL	TN	-1.19	-0.000641	2.5	PASS
		VN	TN	-0.55	-0.000297	2.5	PASS
		VH	TN	-2.42	-0.001305	2.5	PASS
	9400	VL	TN	-1.85	-0.000985	2.5	PASS
		VN	TN	-2.20	-0.001172	2.5	PASS
		VH	TN	-3.19	-0.001697	2.5	PASS
	9538	VL	TN	-5.51	-0.002887	2.5	PASS
		VN	TN	-6.32	-0.003315	2.5	PASS
		VH	TN	-5.19	-0.002718	2.5	PASS
BAND IV	1312	VL	TN	10.68	0.006236	2.5	PASS
		VN	TN	9.81	0.005727	2.5	PASS
		VH	TN	10.43	0.006090	2.5	PASS
	1413	VL	TN	-2.10	-0.001210	2.5	PASS
		VN	TN	-3.30	-0.001903	2.5	PASS
		VH	TN	-2.99	-0.001726	2.5	PASS
	1513	VL	TN	-13.02	-0.007428	2.5	PASS
		VN	TN	-12.27	-0.006999	2.5	PASS
		VH	TN	-12.91	-0.007366	2.5	PASS
BAND V	4132	VL	TN	1.14	0.001376	2.5	PASS
		VN	TN	-0.30	-0.000364	2.5	PASS
		VH	TN	-0.41	-0.000493	2.5	PASS
	4182	VL	TN	-0.53	-0.000633	2.5	PASS
		VN	TN	0.01	0.000009	2.5	PASS
		VH	TN	-0.63	-0.000753	2.5	PASS
	4233	VL	TN	-1.54	-0.001825	2.5	PASS
		VN	TN	-1.09	-0.001284	2.5	PASS
		VH	TN	-1.28	-0.001512	2.5	PASS

8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND II	9262	VN	-30	-2.66	-0.001436	2.5	PASS
		VN	-20	-1.78	-0.000961	2.5	PASS
		VN	-10	-1.56	-0.000842	2.5	PASS
		VN	0	-1.52	-0.000822	2.5	PASS
		VN	10	-1.90	-0.001023	2.5	PASS
		VN	20	-1.47	-0.000795	2.5	PASS
		VN	30	-2.08	-0.001124	2.5	PASS



	9400	VN	40	-1.39	-0.000753	2.5	PASS	
		VN	50	-0.46	-0.000251	2.5	PASS	
		VN	-30	-3.13	-0.001663	2.5	PASS	
		VN	-20	-0.79	-0.000419	2.5	PASS	
		VN	-10	-1.61	-0.000856	2.5	PASS	
		VN	0	-1.59	-0.000845	2.5	PASS	
		VN	10	-3.04	-0.001617	2.5	PASS	
		VN	20	-2.34	-0.001244	2.5	PASS	
		VN	30	-2.88	-0.001533	2.5	PASS	
		VN	40	-2.93	-0.001556	2.5	PASS	
	VN	50	-2.68	-0.001427	2.5	PASS		
	9538	VN	-30	-5.52	-0.002895	2.5	PASS	
		VN	-20	-4.57	-0.002396	2.5	PASS	
		VN	-10	-6.02	-0.003153	2.5	PASS	
		VN	0	-6.42	-0.003367	2.5	PASS	
		VN	10	-5.64	-0.002958	2.5	PASS	
		VN	20	-4.58	-0.002400	2.5	PASS	
		VN	30	-5.12	-0.002685	2.5	PASS	
		VN	40	-7.27	-0.003813	2.5	PASS	
	BAND IV	1312	VN	-30	10.60	0.006190	2.5	PASS
VN			-20	10.16	0.005931	2.5	PASS	
VN			-10	10.89	0.006357	2.5	PASS	
VN			0	11.73	0.006850	2.5	PASS	
VN			10	10.90	0.006366	2.5	PASS	
VN			20	10.19	0.005952	2.5	PASS	
VN			30	11.42	0.006671	2.5	PASS	
VN			40	11.41	0.006662	2.5	PASS	
1413		VN	-30	-3.17	-0.001829	2.5	PASS	
		VN	-20	-2.88	-0.001664	2.5	PASS	
		VN	-10	-2.96	-0.001709	2.5	PASS	
		VN	0	-2.21	-0.001276	2.5	PASS	
		VN	10	-2.97	-0.001713	2.5	PASS	
		VN	20	-3.33	-0.001924	2.5	PASS	
		VN	30	-3.90	-0.002250	2.5	PASS	
		VN	40	-2.10	-0.001210	2.5	PASS	
1513		VN	50	-2.88	-0.001664	2.5	PASS	
		VN	-30	-12.85	-0.007334	2.5	PASS	
		VN	-20	-12.97	-0.007399	2.5	PASS	
		VN	-10	-12.89	-0.007354	2.5	PASS	
		VN	0	-12.17	-0.006942	2.5	PASS	
		VN	10	-12.55	-0.007158	2.5	PASS	
		VN	20	-13.38	-0.007632	2.5	PASS	
		VN	30	-13.04	-0.007440	2.5	PASS	
BAND V		4132	VN	40	-13.31	-0.007595	2.5	PASS
			VN	50	-13.44	-0.007668	2.5	PASS
		4132	VN	-30	0.26	0.000320	2.5	PASS
			VN	-20	0.47	0.000571	2.5	PASS



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Shenzhen Branch

Report No.: SZEM180500453601

Page: 51 of 51

		VN	-10	0.15	0.000182	2.5	PASS
		VN	0	-0.33	-0.000398	2.5	PASS
		VN	10	0.25	0.000303	2.5	PASS
		VN	20	0.75	0.000909	2.5	PASS
		VN	30	0.38	0.000459	2.5	PASS
		VN	40	0.39	0.000467	2.5	PASS
		VN	50	-0.06	-0.000069	2.5	PASS
	4182	VN	-30	-0.26	-0.000308	2.5	PASS
		VN	-20	0.23	0.000274	2.5	PASS
		VN	-10	-0.55	-0.000658	2.5	PASS
		VN	0	-0.11	-0.000137	2.5	PASS
		VN	10	-0.63	-0.000753	2.5	PASS
		VN	20	-0.31	-0.000376	2.5	PASS
		VN	30	-0.29	-0.000342	2.5	PASS
	4233	VN	40	-0.27	-0.000325	2.5	PASS
		VN	50	-0.52	-0.000624	2.5	PASS
		VN	-30	-2.32	-0.002737	2.5	PASS
		VN	-20	-1.66	-0.001960	2.5	PASS
		VN	-10	-0.75	-0.000887	2.5	PASS
		VN	0	-1.56	-0.001842	2.5	PASS
		VN	10	-1.52	-0.001800	2.5	PASS
		VN	20	-1.58	-0.001867	2.5	PASS
	VN	30	-0.87	-0.001031	2.5	PASS	
	VN	40	-1.97	-0.002323	2.5	PASS	
	VN	50	-1.52	-0.001791	2.5	PASS	

The End