

Appendix B.2

WCDMA Band II & V

1. Main Test Instruments

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/10/20	2019/10/19
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2019/3/2	2020/3/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/11/2	2019/11/1

2. Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	$U = \pm 0.37 \text{ dB}$
Bandwidth	Magnitude [%]	$U = \pm 0.2\%$
Band Edge Compliance	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Spurious Emissions, Conducted	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Frequency Stability	Frequency Accuracy [ppm]	$U = \pm 0.24 \text{ ppm}$

3. Effective (Isotropic) Radiated Power

3.1. Test Result

BAND	Modulation	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	QPSK	9262	23.30	22.60	33.00	PASS
Band II	QPSK	9400	23.28	22.58	33.00	PASS
Band II	QPSK	9538	23.27	22.57	33.00	PASS
Band II	16QAM	9262	20.22	19.52	33.00	PASS
Band II	16QAM	9400	20.14	19.44	33.00	PASS
Band II	16QAM	9538	20.33	19.63	33.00	PASS

BAND	Modulation	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	QPSK	4132	23.86	21.11	38.45	PASS
Band V	QPSK	4182	23.92	21.17	38.45	PASS
Band V	QPSK	4233	23.92	21.17	38.45	PASS
Band V	16QAM	4132	20.82	18.07	38.45	PASS
Band V	16QAM	4182	20.85	18.10	38.45	PASS
Band V	16QAM	4233	20.87	18.12	38.45	PASS

Remark:

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

$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$

$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$

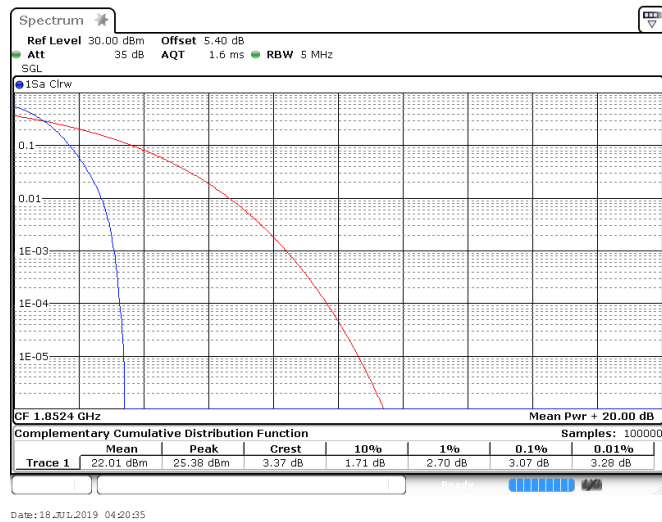
4. Peak-to-Average Ratio (CCDF)

4.1. Test Result

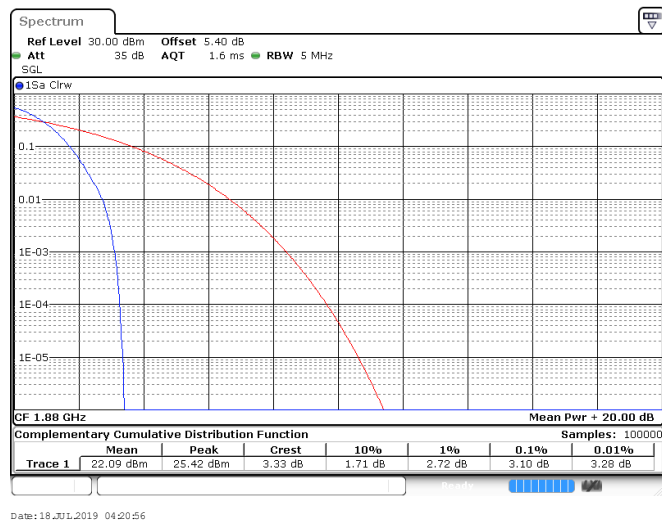
BAND	Modulation	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	QPSK	9262	3.07	13	PASS
Band II	QPSK	9400	3.10	13	PASS
Band II	QPSK	9538	2.87	13	PASS
Band II	16QAM	9262	3.16	13	PASS
Band II	16QAM	9400	3.10	13	PASS
Band II	16QAM	9538	2.90	13	PASS
Band V	QPSK	4132	3.07	13	PASS
Band V	QPSK	4182	2.93	13	PASS
Band V	QPSK	4233	3.04	13	PASS
Band V	16QAM	4132	3.13	13	PASS
Band V	16QAM	4182	3.19	13	PASS
Band V	16QAM	4233	3.04	13	PASS

4.2. Test Plots

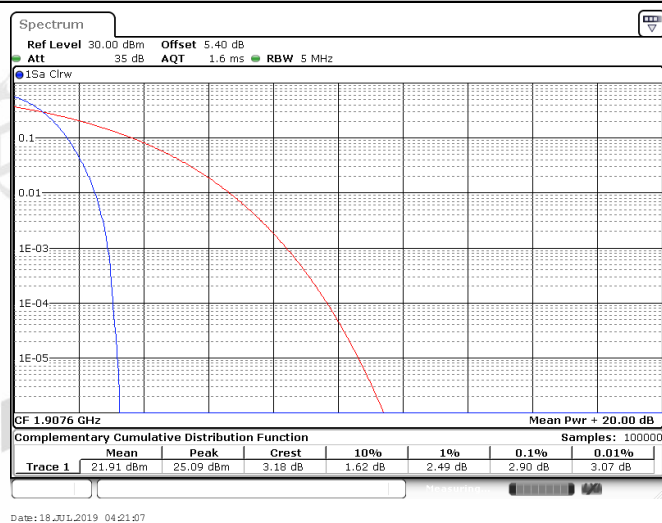
Band II_QPSK_9262



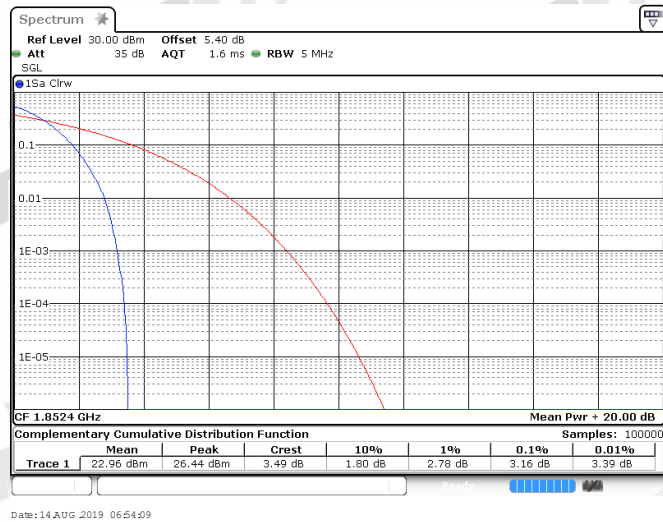
Band II_QPSK_9400



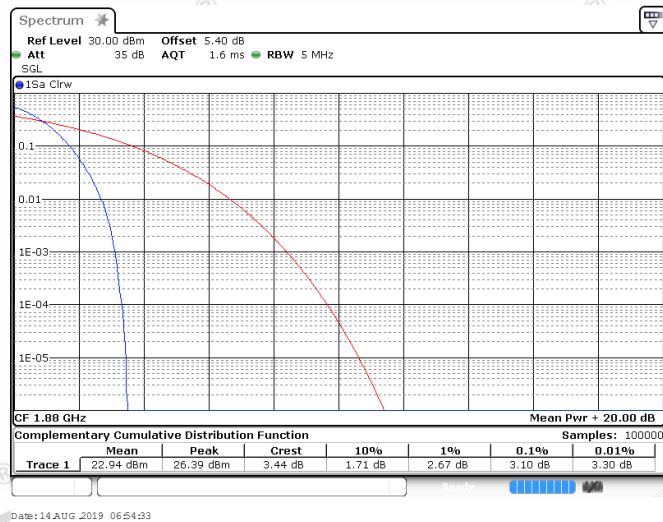
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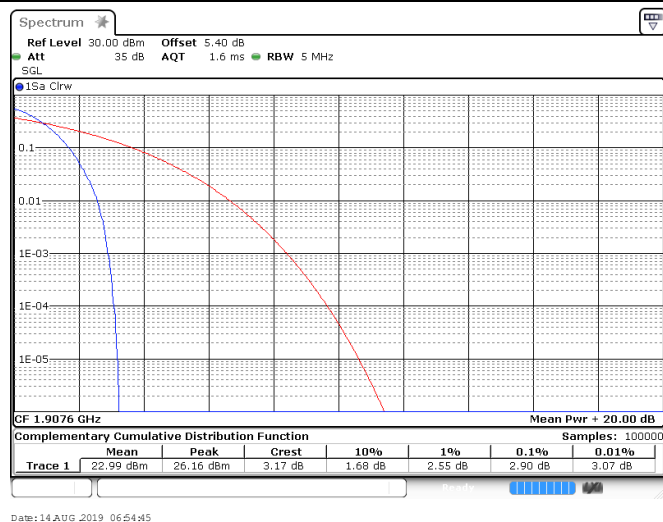
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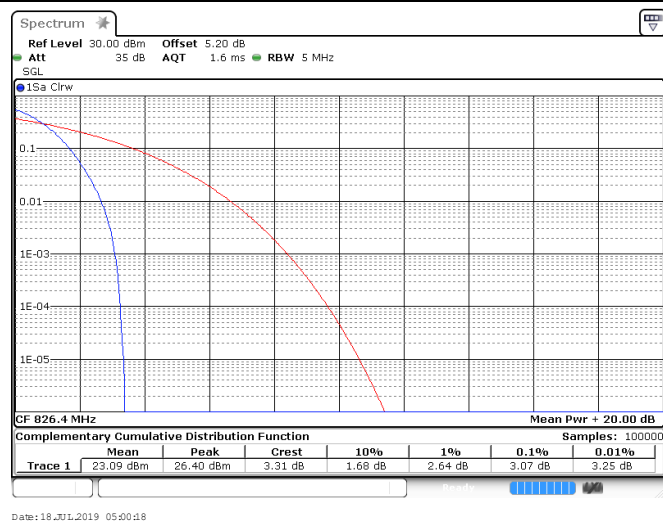
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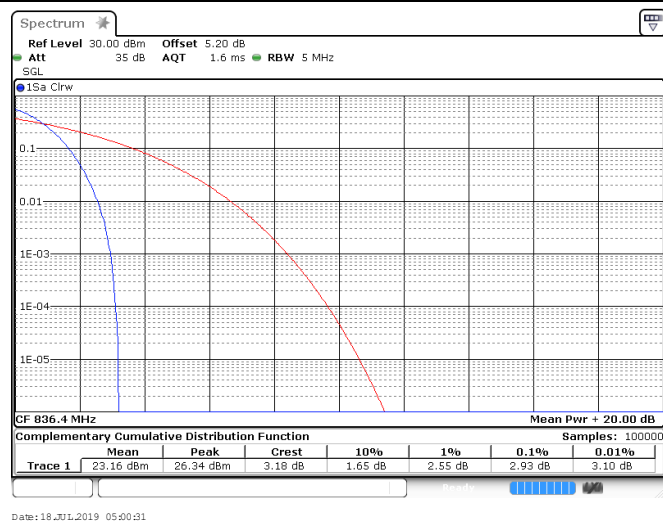
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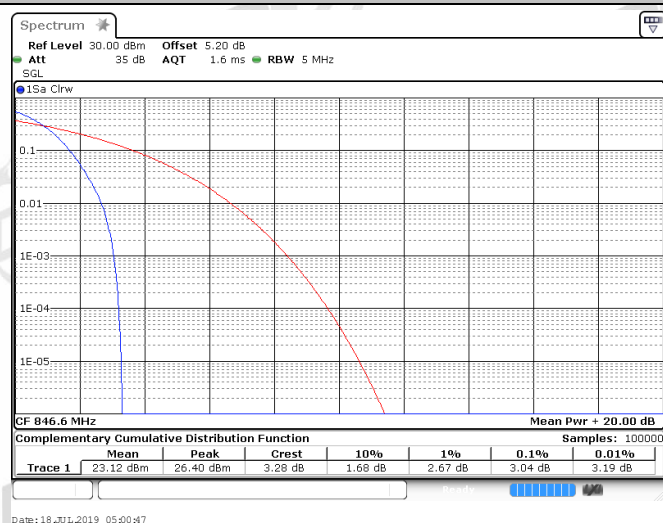
Band V_QPSK_4132



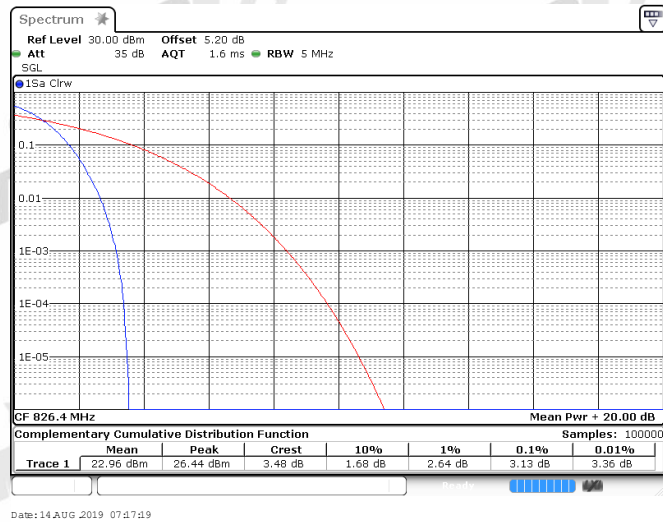
Band V_QPSK_4182



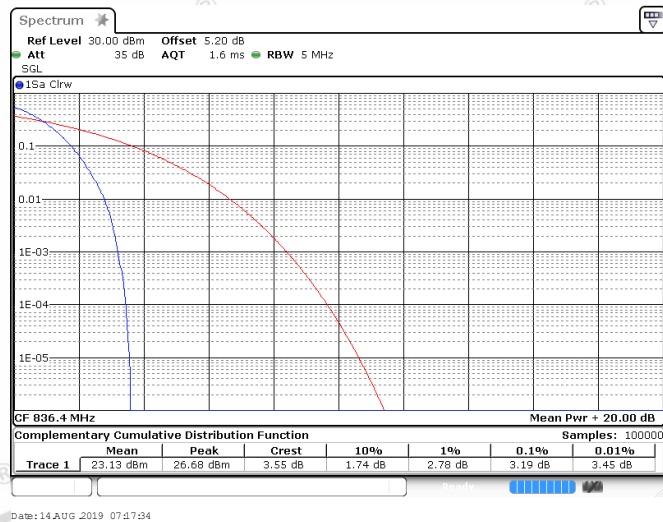
Band V_QPSK_4233



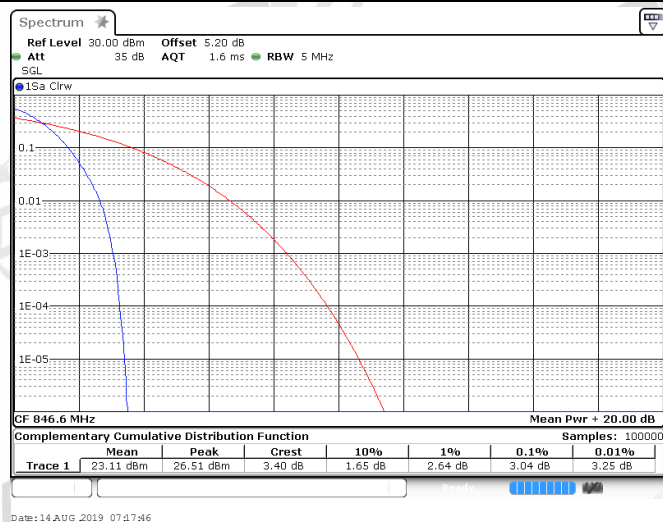
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Band V_16QAM_4182



Band V_16QAM_4233

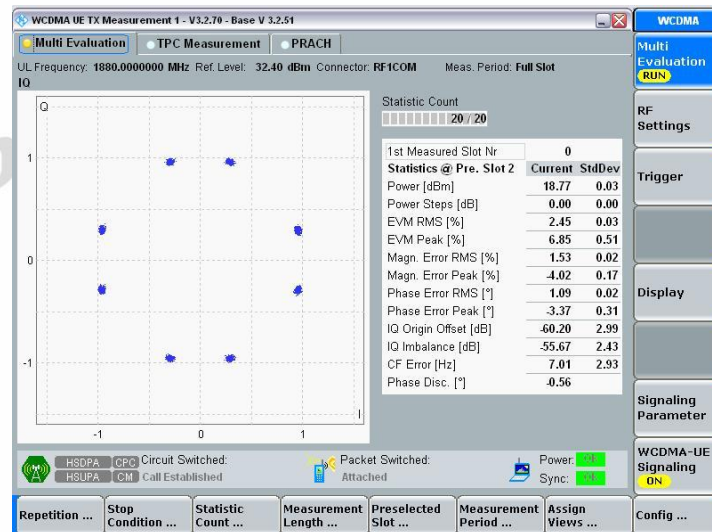


5. Modulation Characteristics

5.1. Test BAND = WCDMA Band II

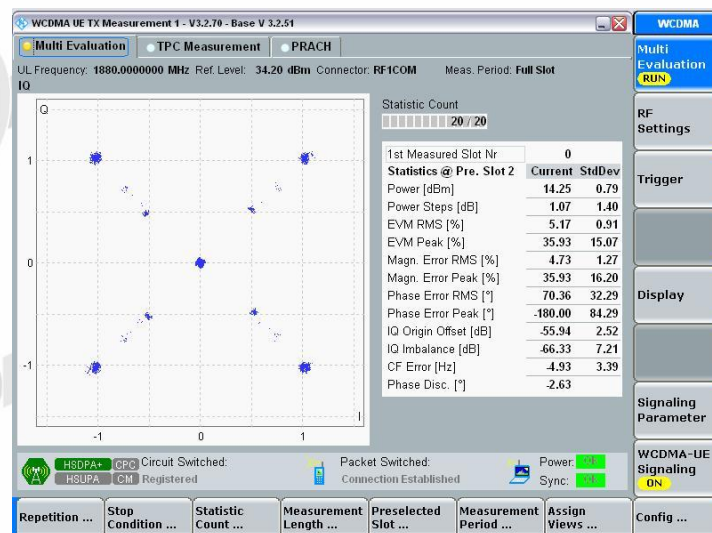
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5.1.1.1. Test Channel = MCH



5.1.2. Test Mode = UMTS/TM2

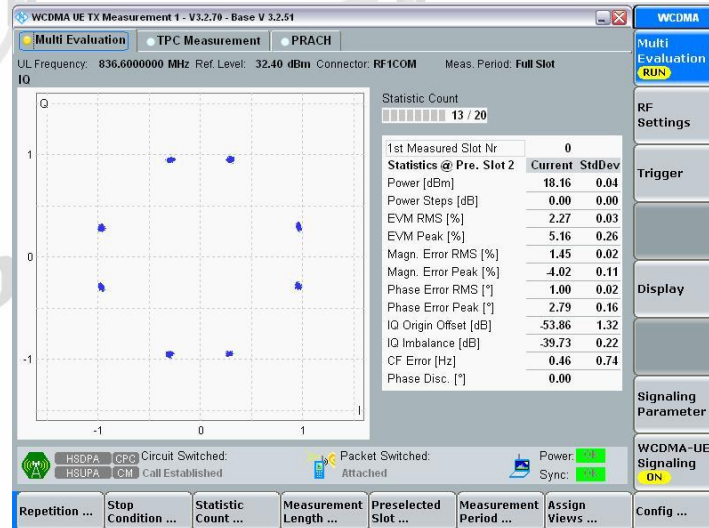
5.1.2.1. Test Channel = MCH



5.2. Test BAND = WCDMA Band V

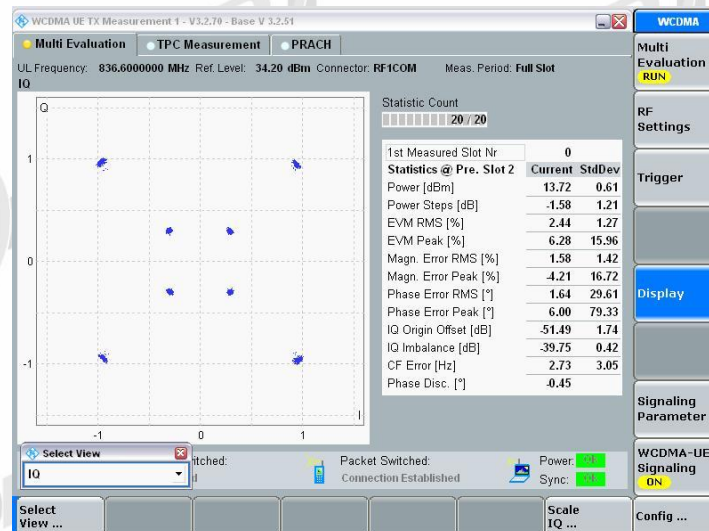
5.2.1. Test Mode = UMTS/TM1

5.2.1.1. Test Channel = MCH



5.2.2. Test Mode = UMTS/TM2

5.2.2.1. Test Channel = MCH

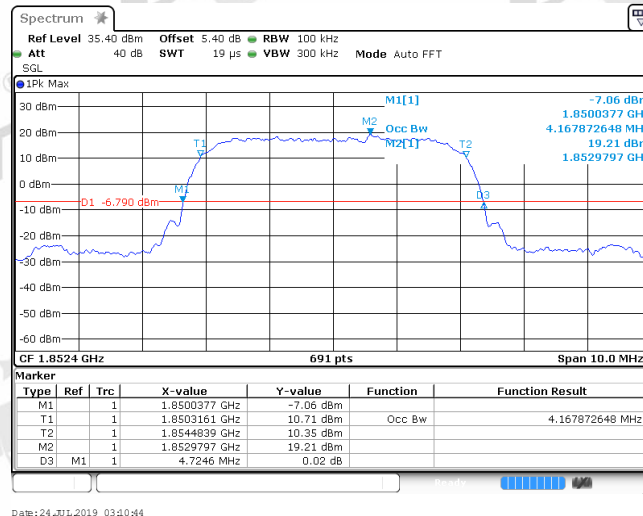


6. 26dB Bandwidth and Occupied Bandwidth

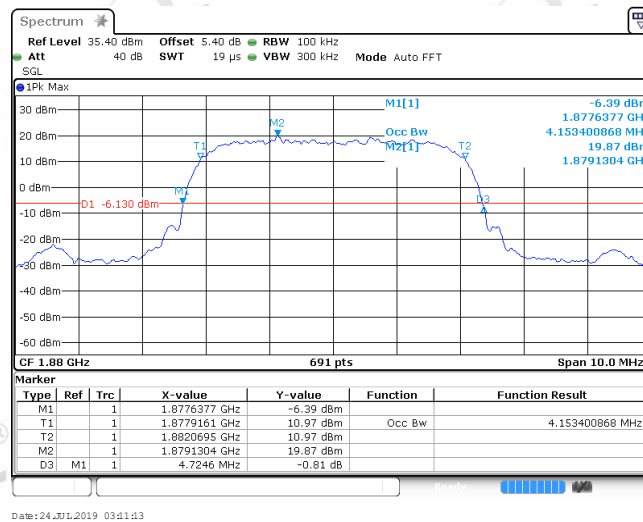
6.1. Test Result

BAND	Modulation	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	QPSK	9262	4167.9	4725	---	PASS
Band II	QPSK	9400	4153.4	4725	---	PASS
Band II	QPSK	9538	4153.4	4754	---	PASS
Band II	16QAM	9262	4153.4	4725	---	PASS
Band II	16QAM	9400	4167.9	4725	---	PASS
Band II	16QAM	9538	4153.4	4725	---	PASS
Band V	QPSK	4132	4153.4	4710	---	PASS
Band V	QPSK	4182	4153.4	4725	---	PASS
Band V	QPSK	4233	4153.4	4725	---	PASS
Band V	16QAM	4132	4153.4	4725	---	PASS
Band V	16QAM	4182	4153.4	4710	---	PASS
Band V	16QAM	4233	4153.4	4710	---	PASS

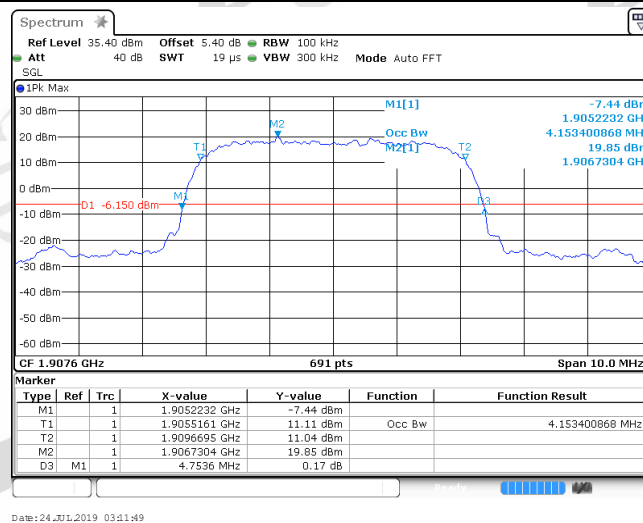
6.2. Test Plots



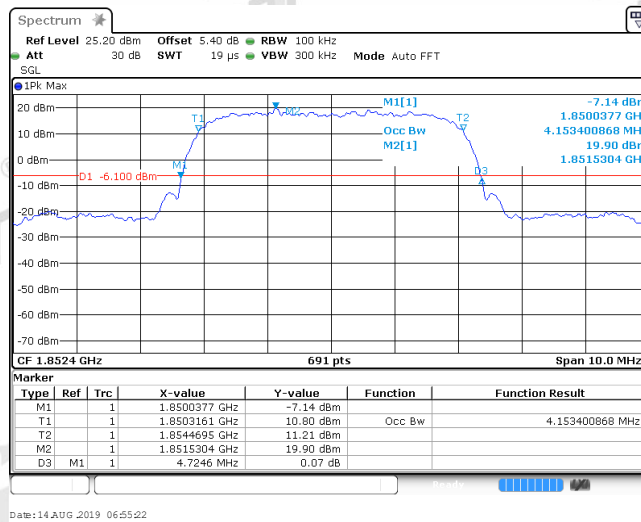
Band II_QPSK_9262



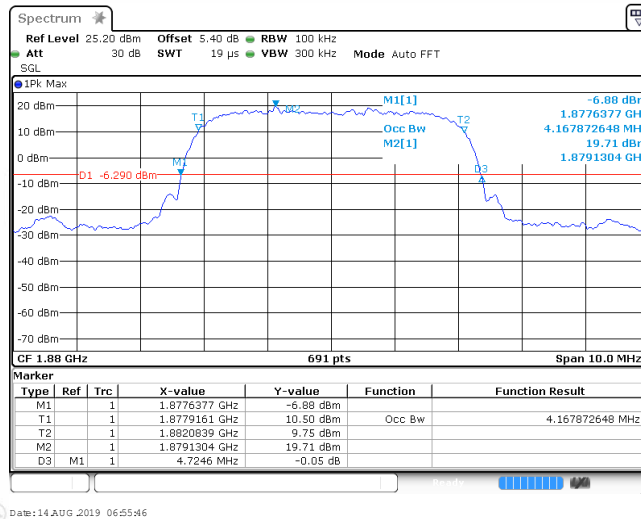
Band II_QPSK_9400



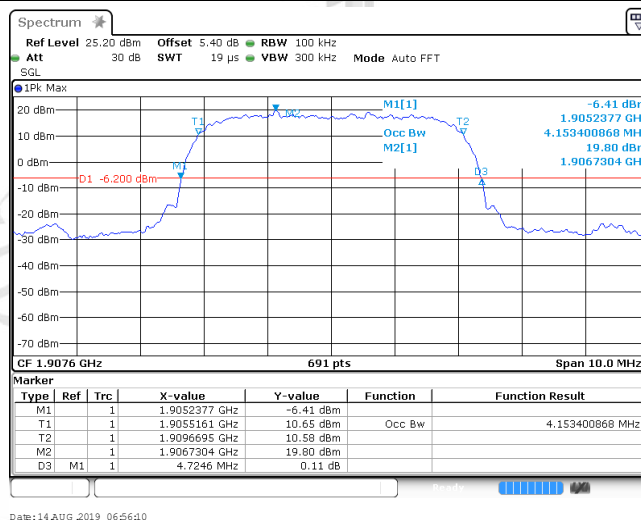
Band II_QPSK_9538



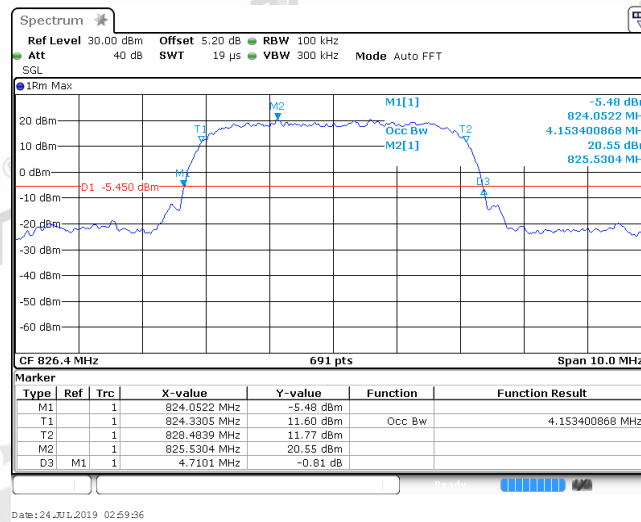
Band II_16QAM_9262



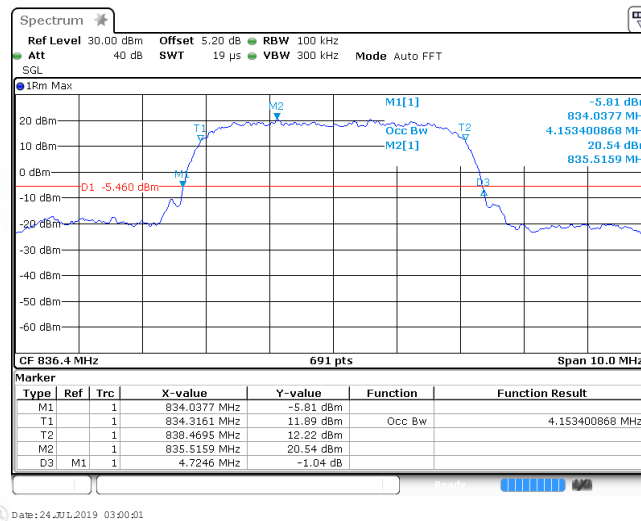
Band II_16QAM_9400



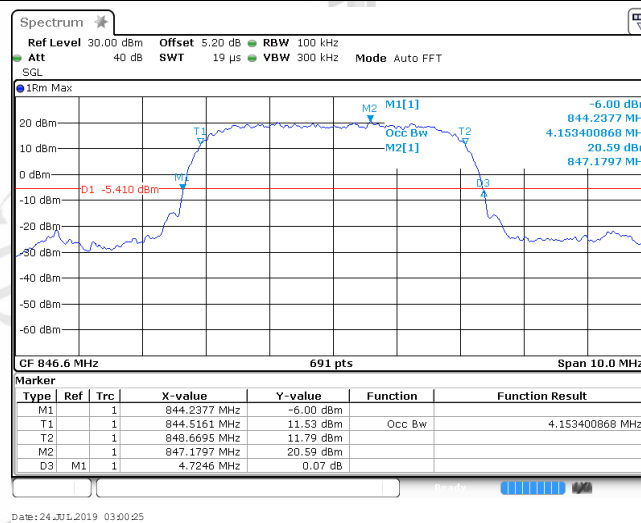
Band II_16QAM_9538



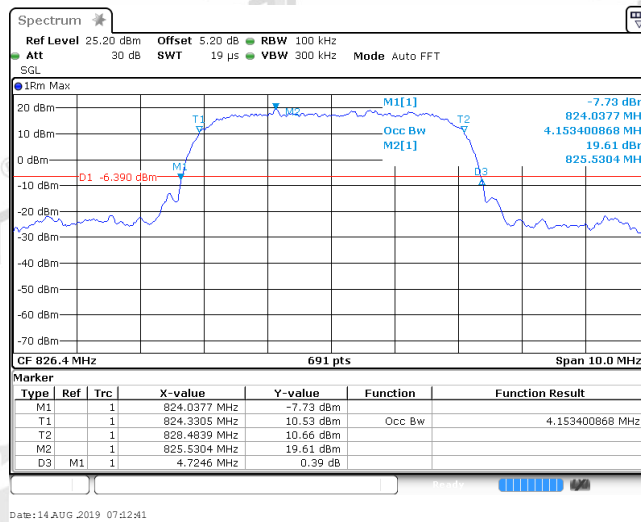
Band V_QPSK_4132



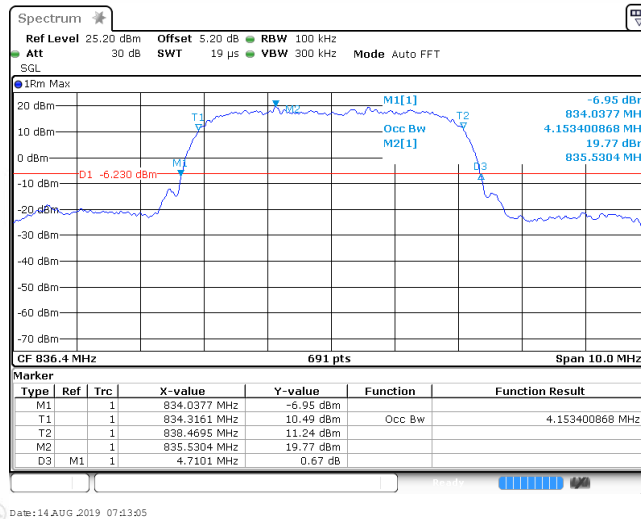
Band V_QPSK_4182



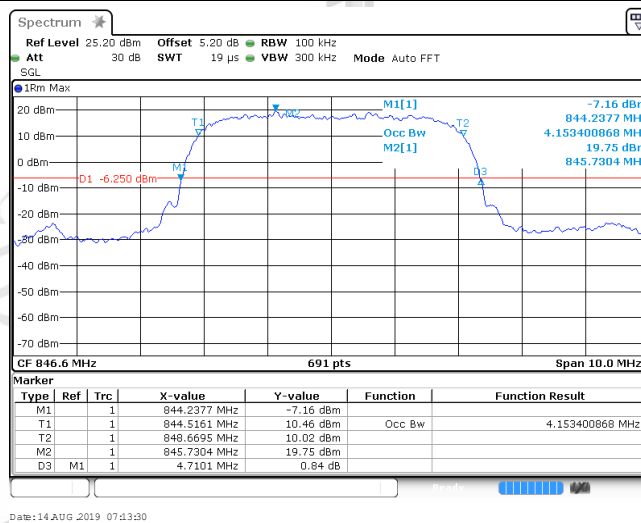
Band V_QPSK_4233



Band V_16QAM_4132



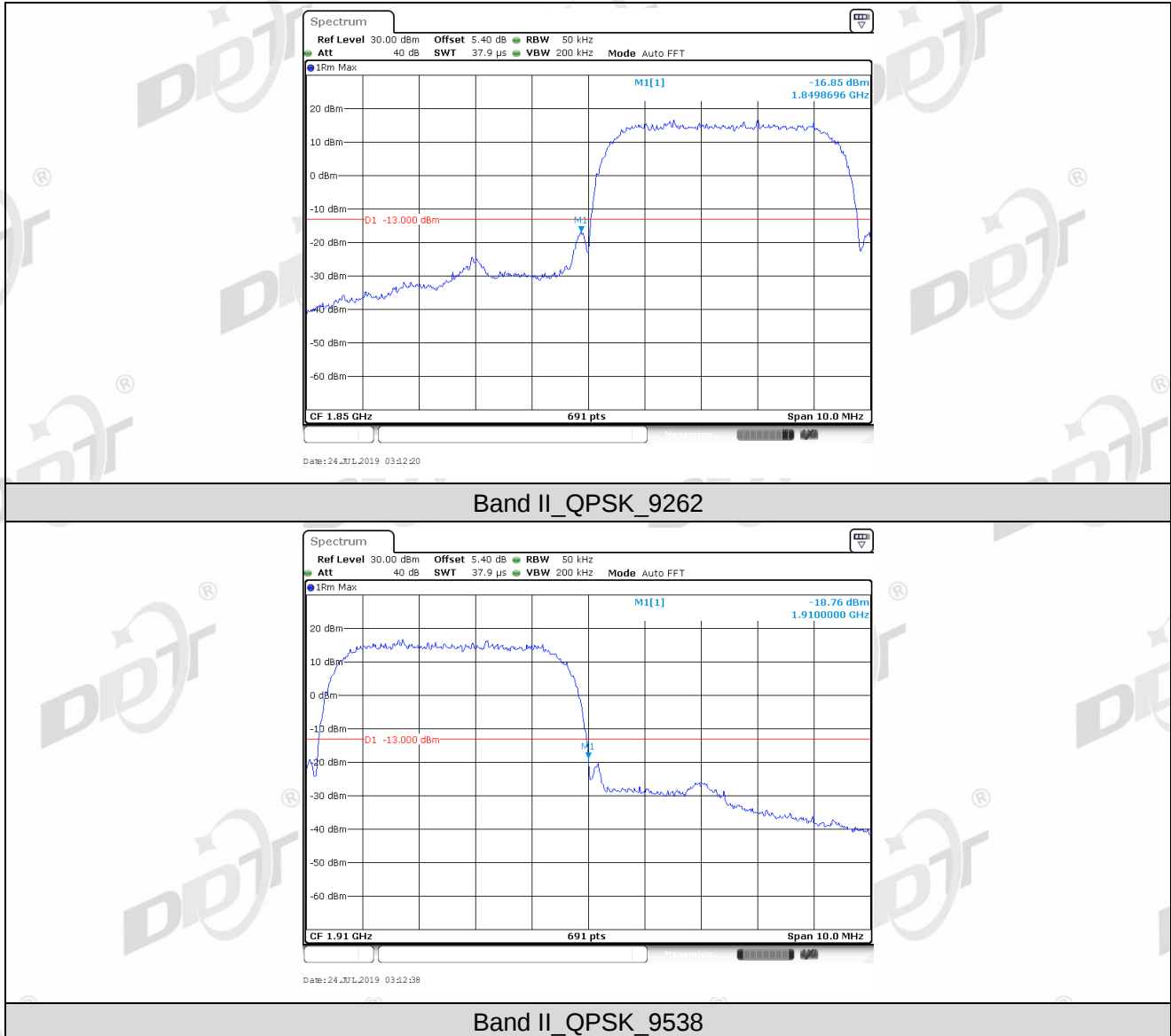
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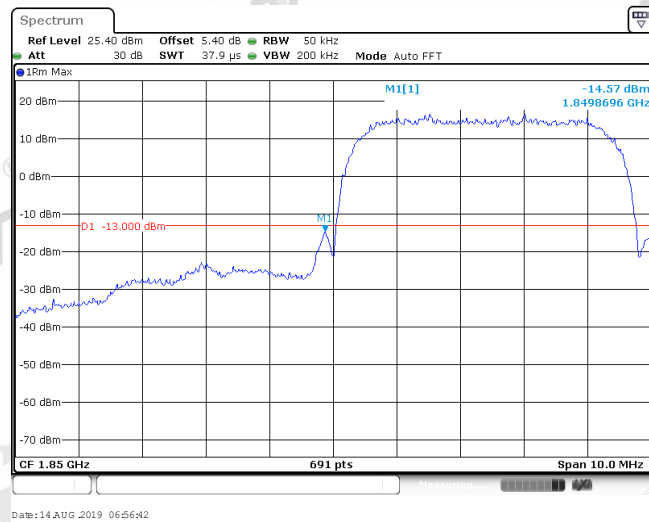


Band V_16QAM_4233

7. Band Edge Compliance

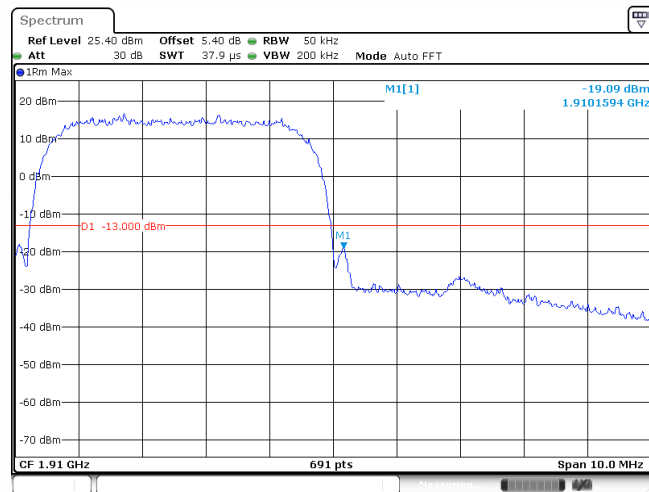
7.1. Test Plots





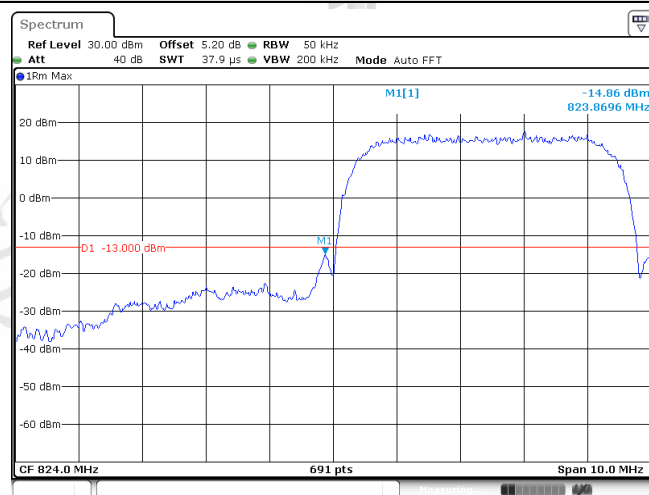
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Band II_16QAM_9262



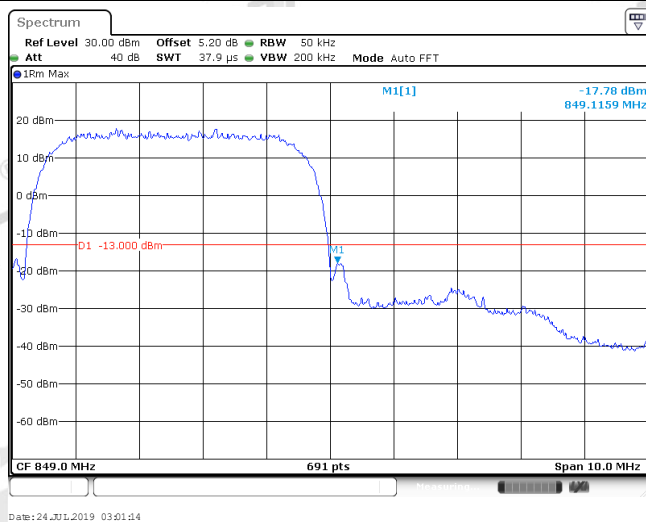
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Band II_16QAM_9538

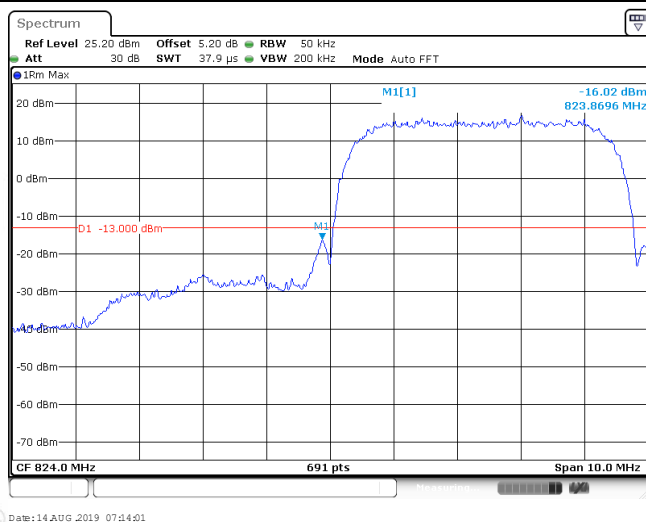


Date: 24 JUL 2019 03:00:57

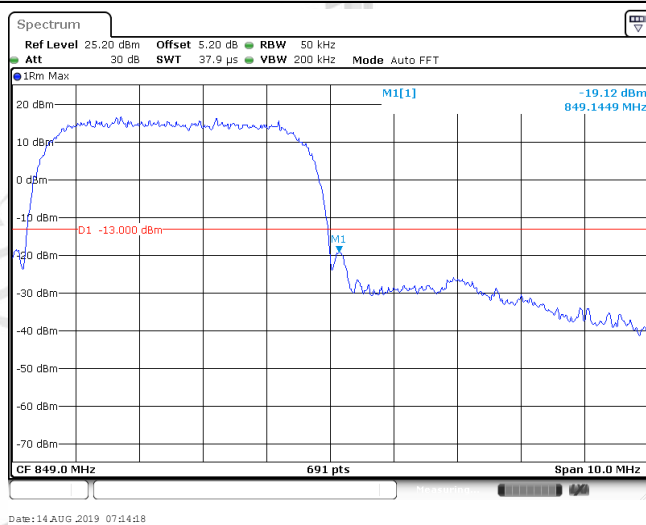
Band V_QPSK_4132



Band V_QPSK_4233



Band V_16QAM_4132



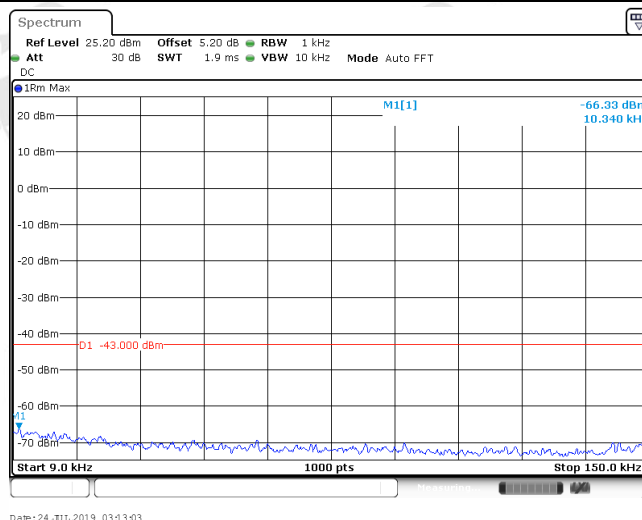
Band V_16QAM_4233

8. Spurious Emission at Antenna Terminal

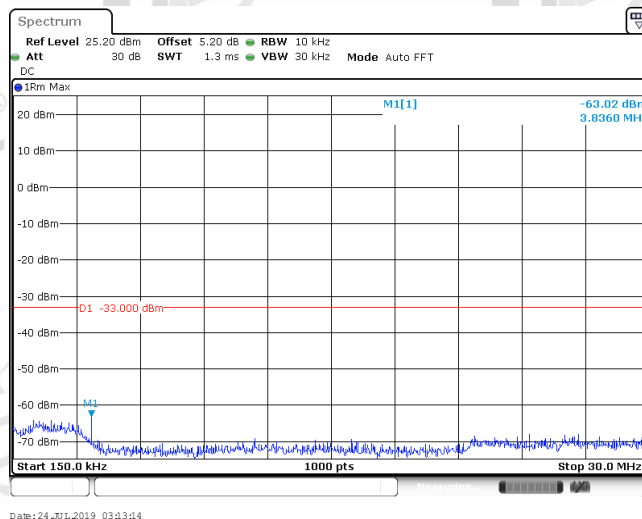
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " 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.

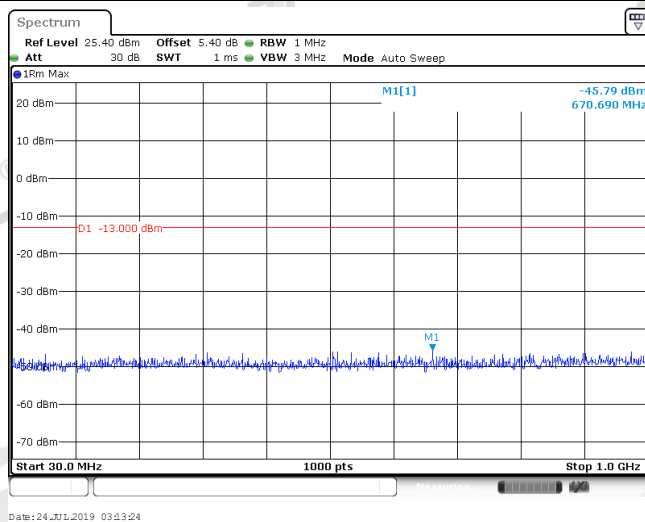
8.1. Test Plots For QPSK



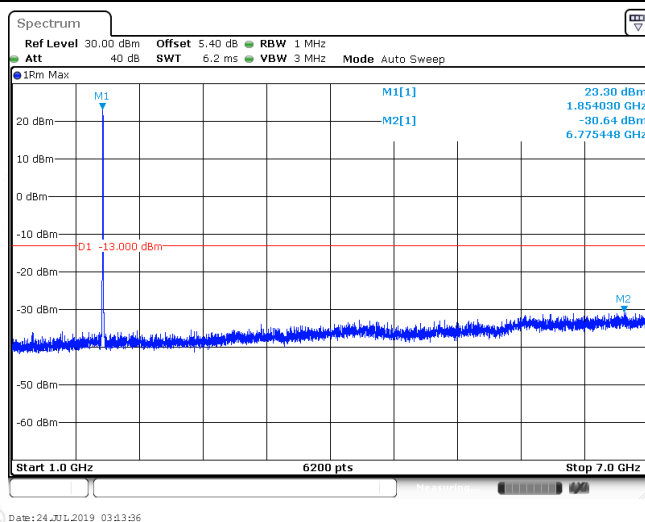
Band II_9262



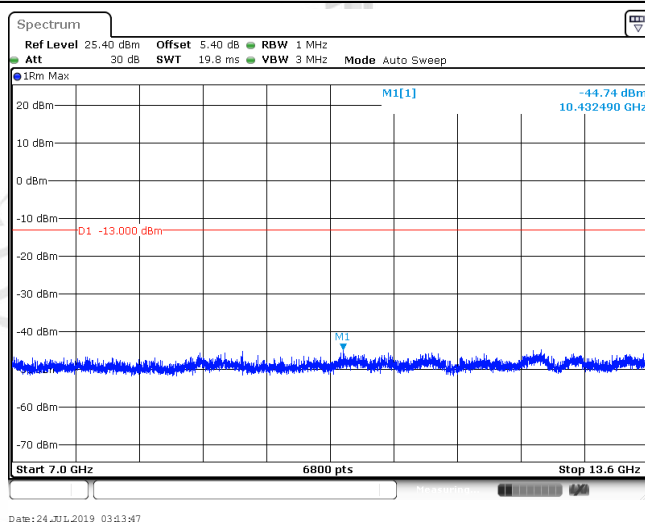
Band II_9262



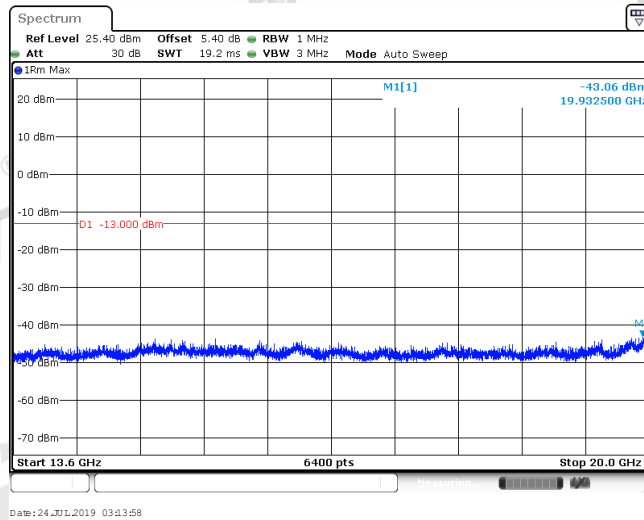
Band II_9262



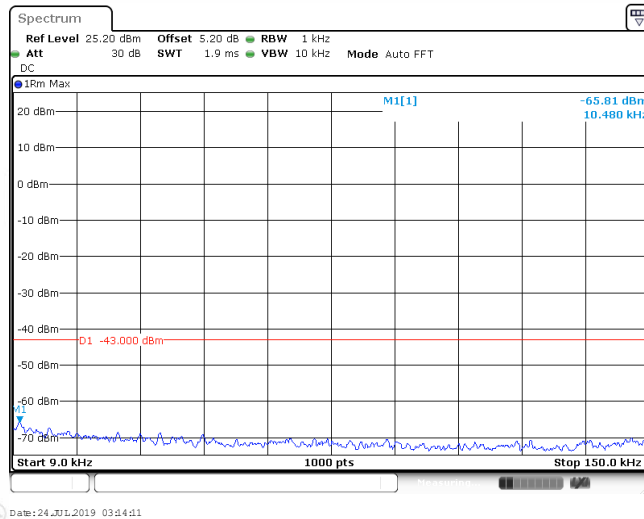
Band II_9262



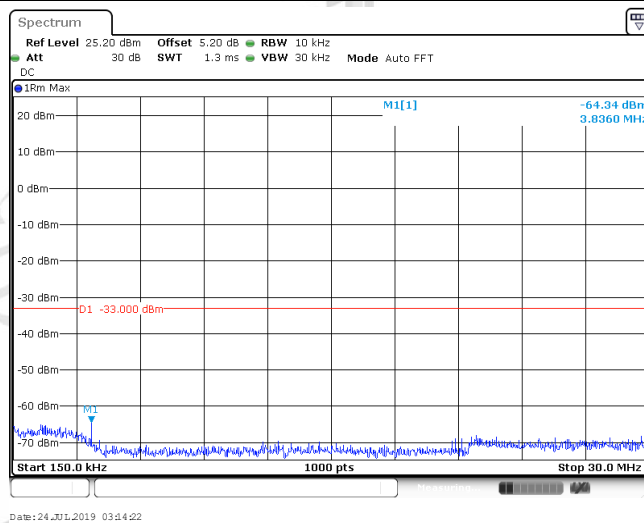
Band II_9262



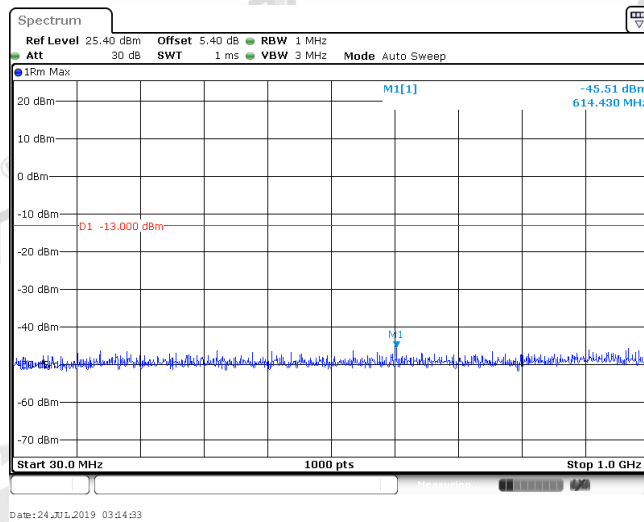
Band II_9262



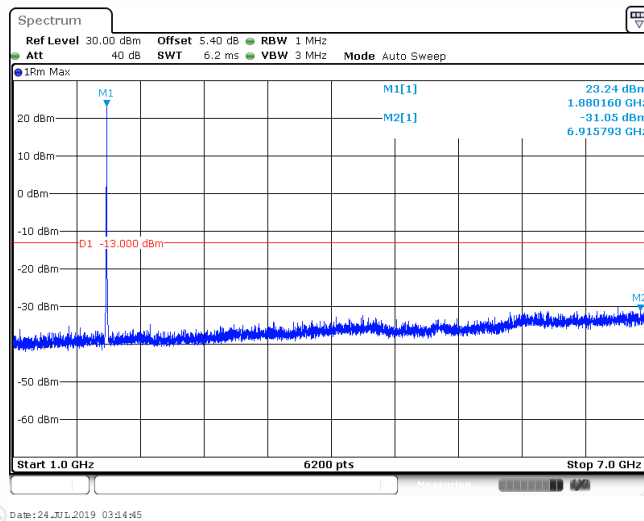
Band II_9400



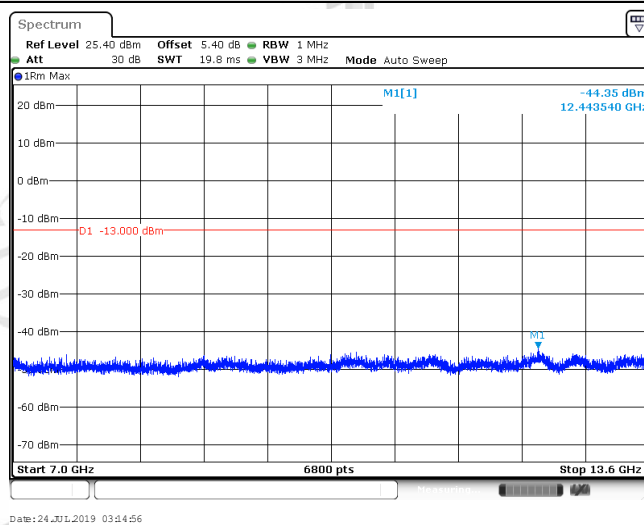
Band II_9400



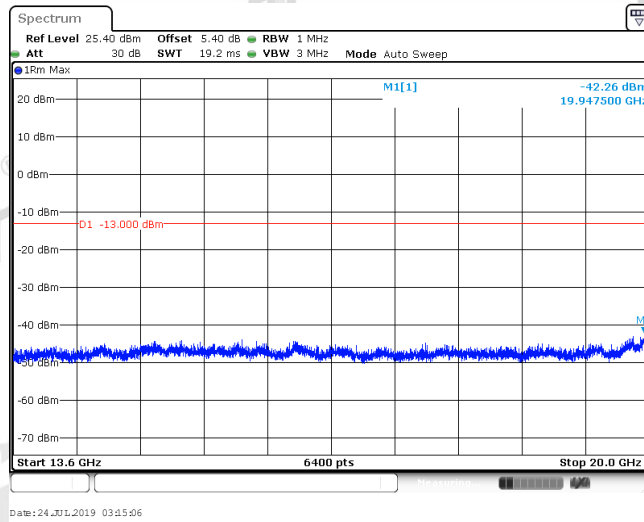
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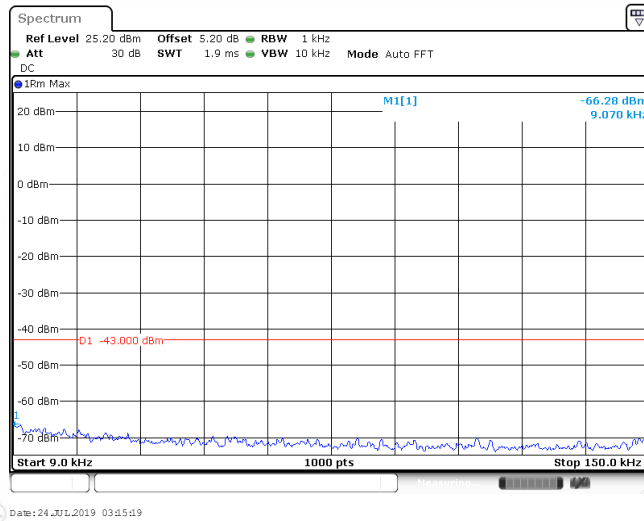
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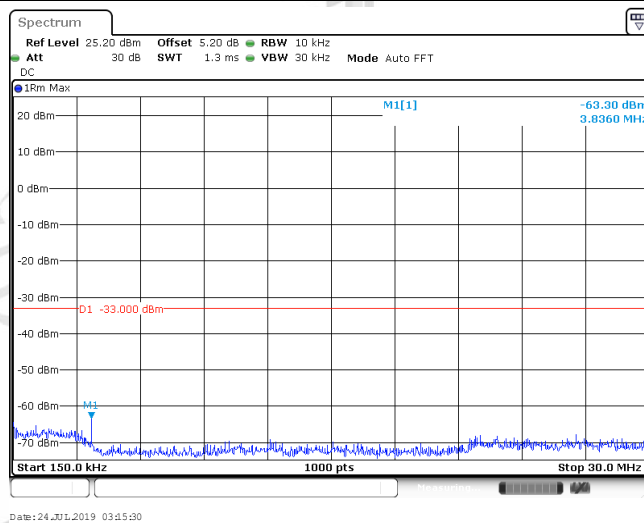
Band II_9400



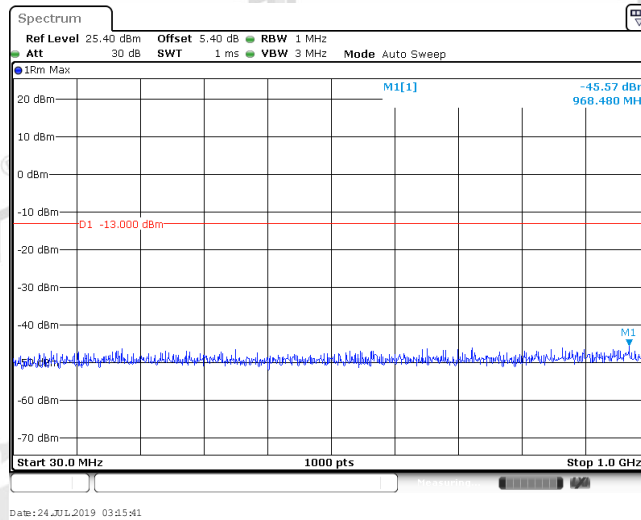
Band II_9400



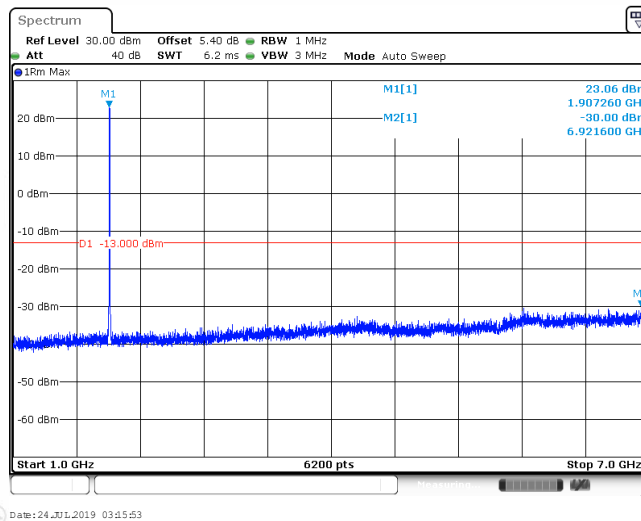
Band II_9538



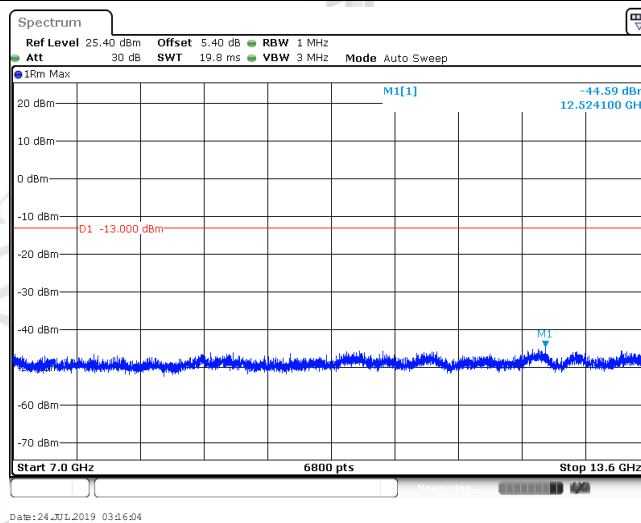
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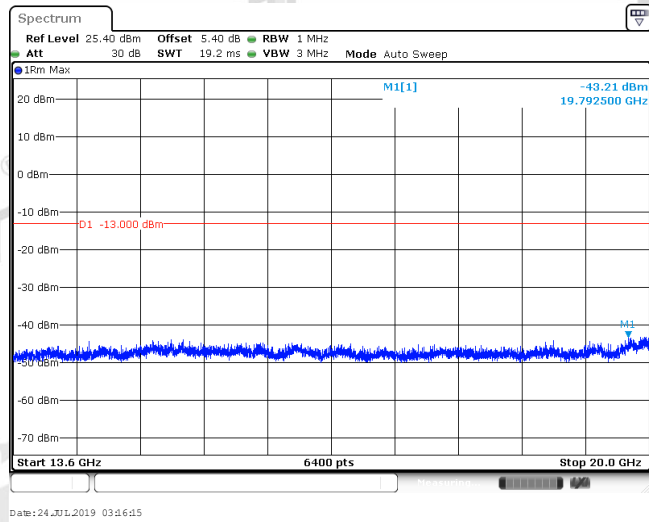
Band II_9538



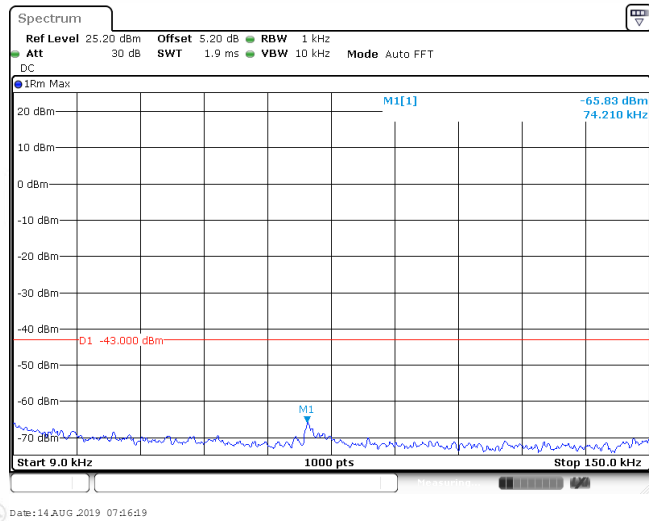
Band II_9538



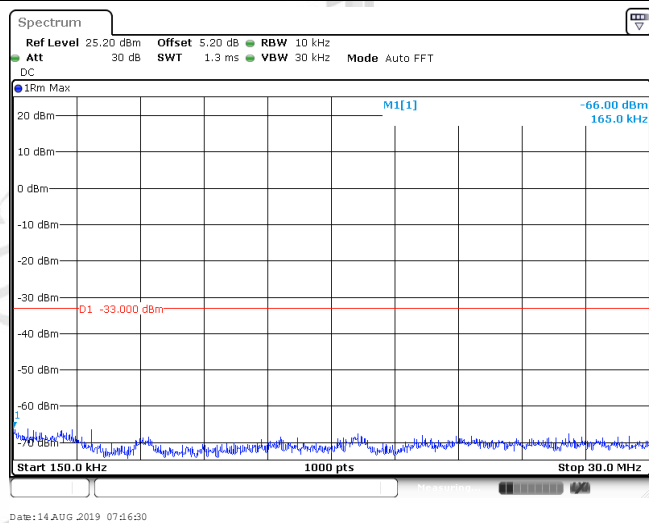
Band II_9538



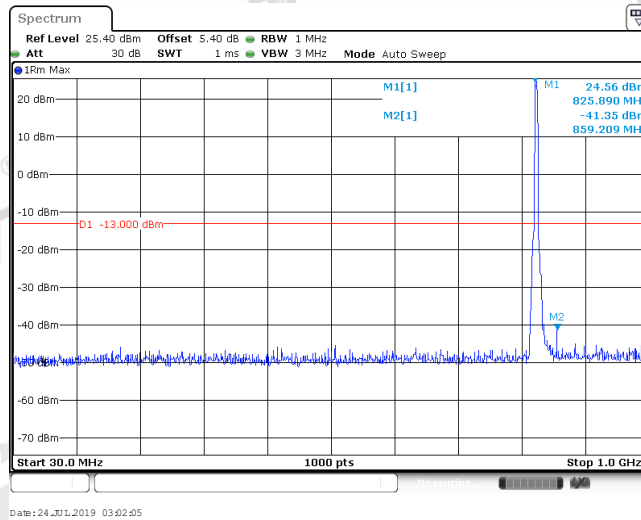
Band II_9538



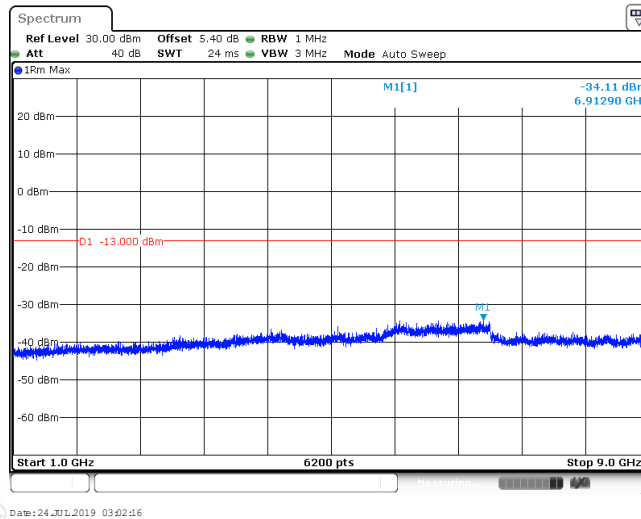
Band V_4132



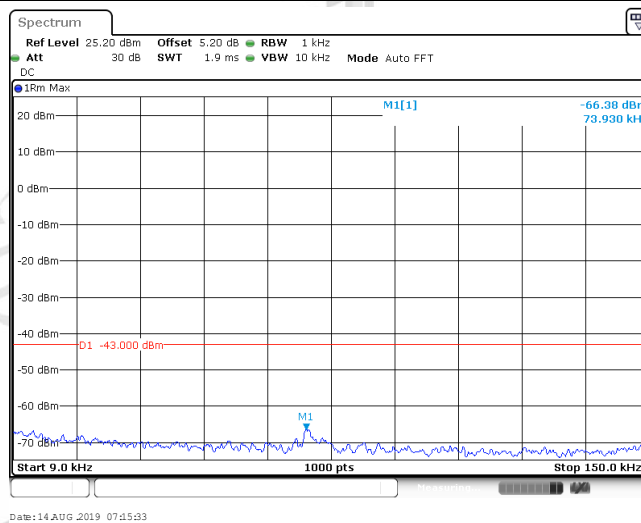
Band V_4132



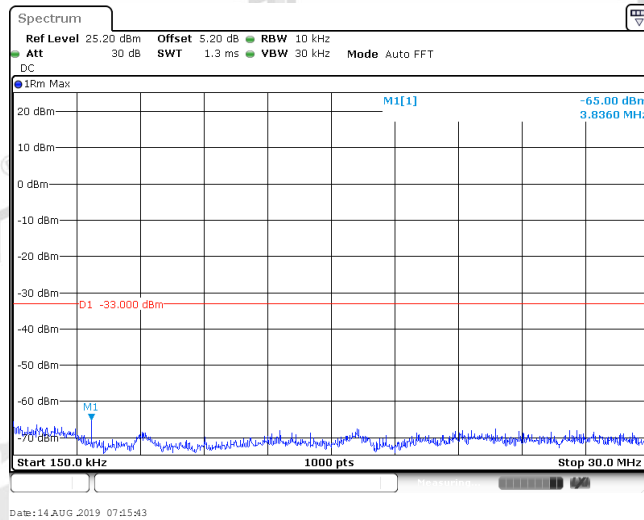
Band V_4132



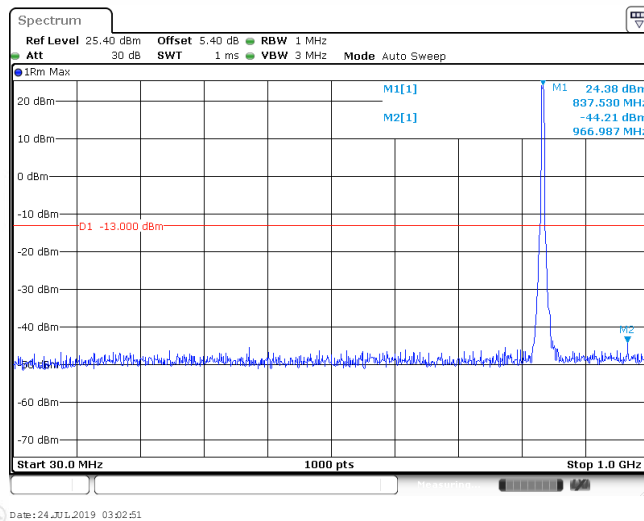
Band V_4132



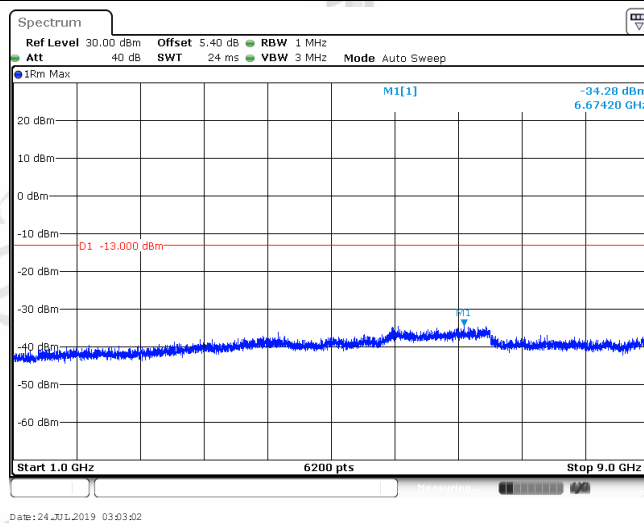
Band V_4182



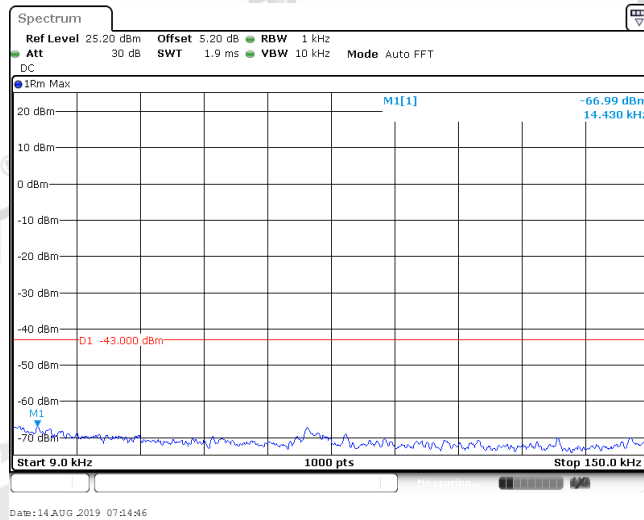
Band V_4182



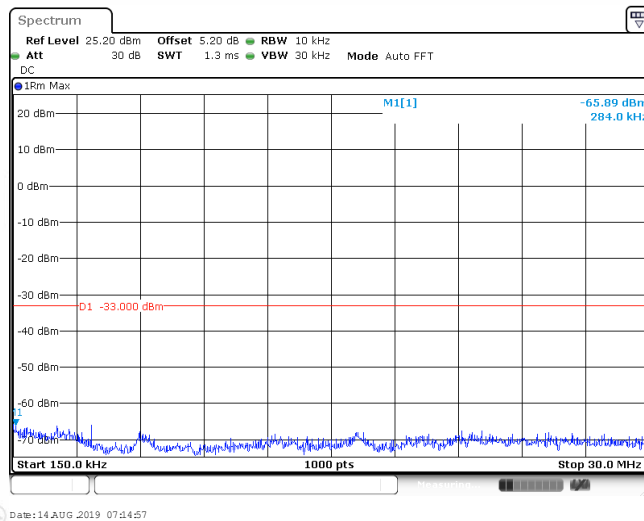
Band V_4182



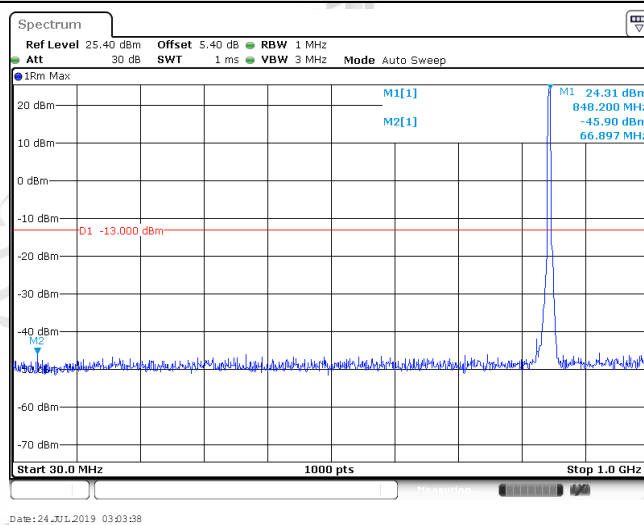
Band V_4182



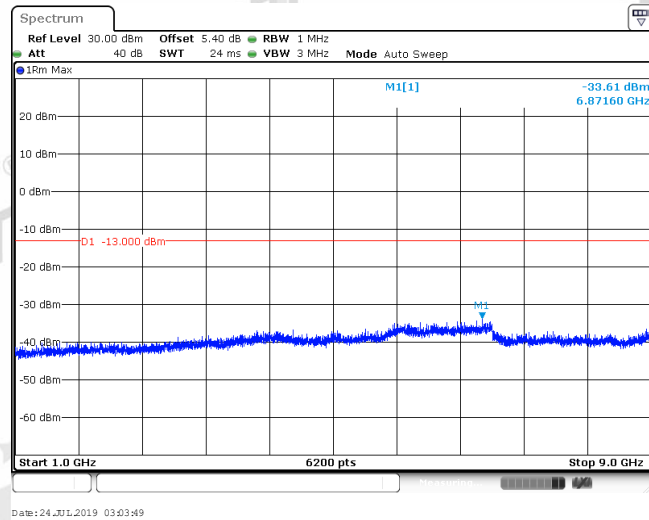
Band V_4233



Band V_4233

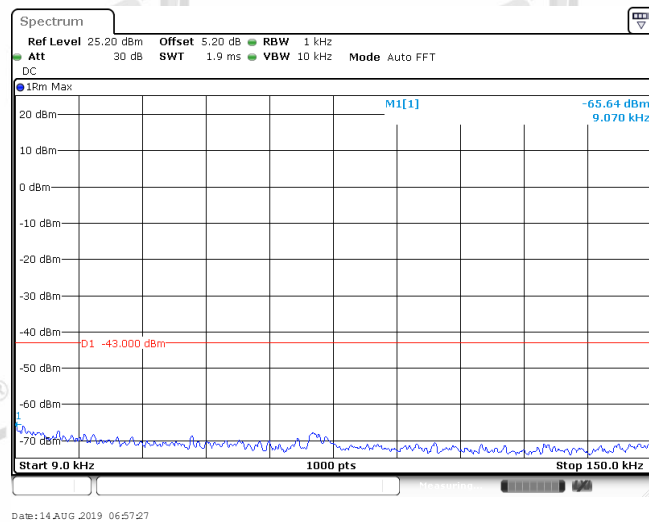


Band V_4233

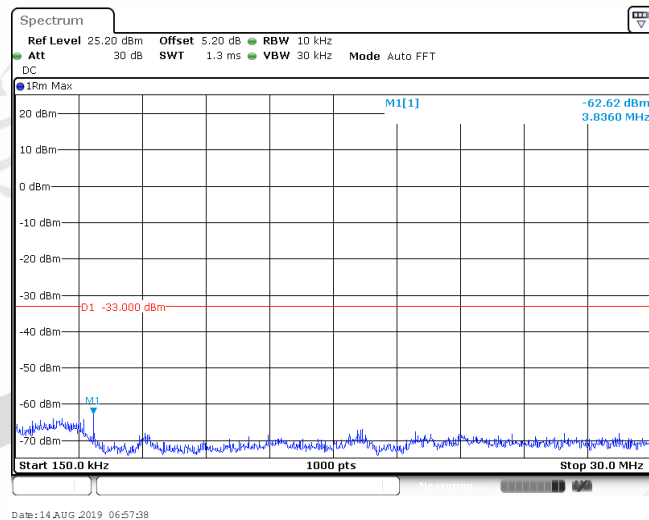


Band V_4233

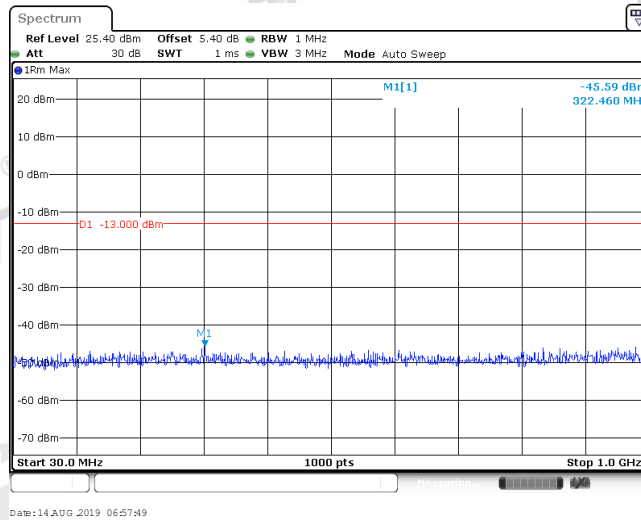
8.2. Test Plots For 16QAM



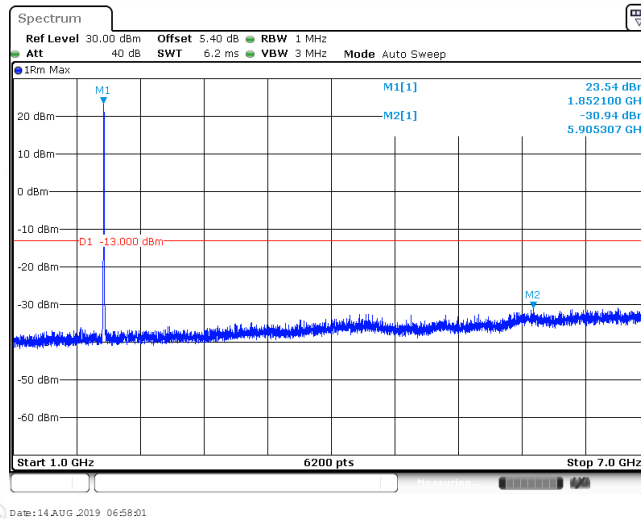
Band II_9262



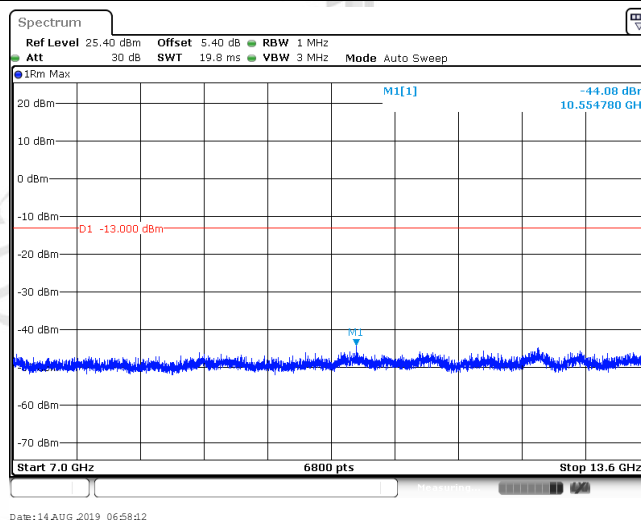
Band II_9262



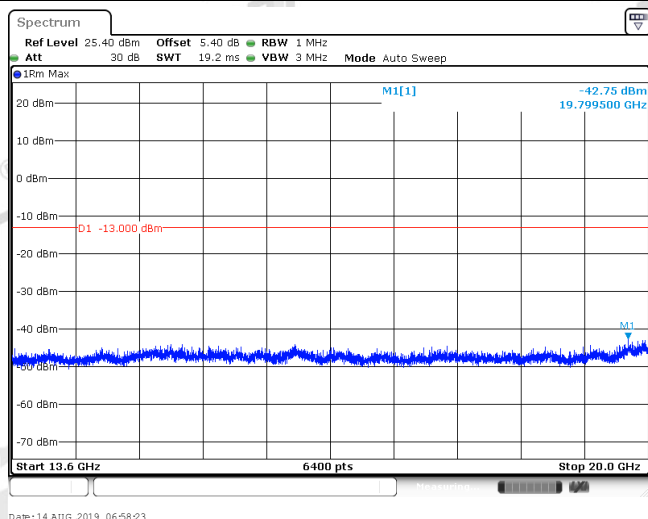
Band II_9262



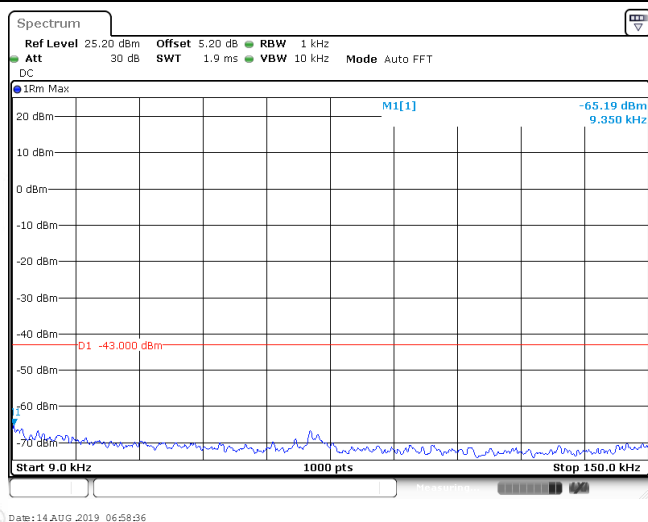
Band II_9262



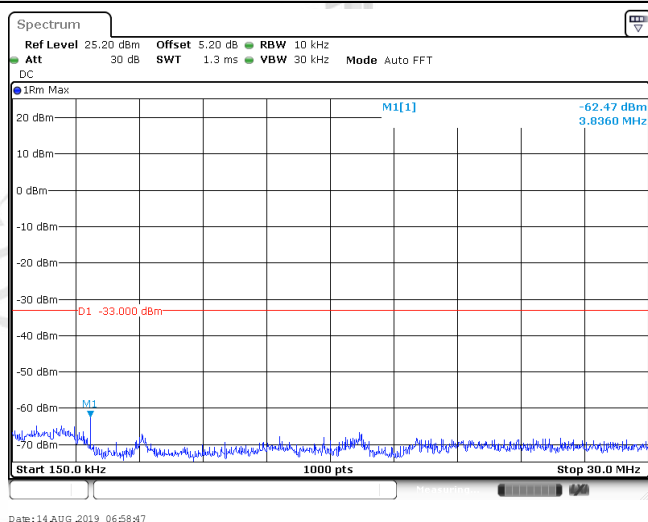
Band II_9262



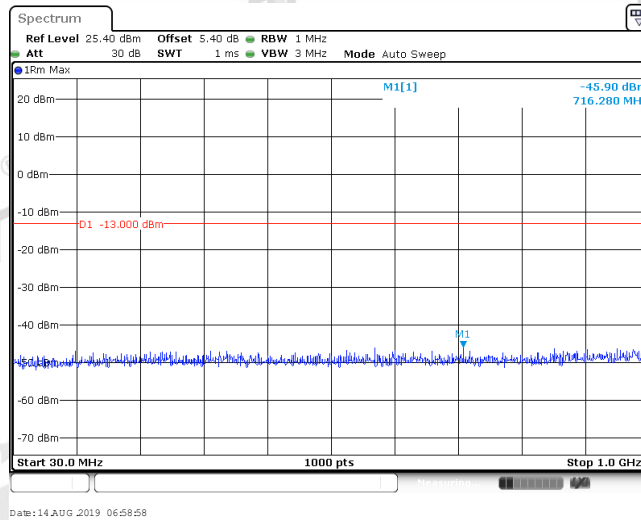
Band II_9262



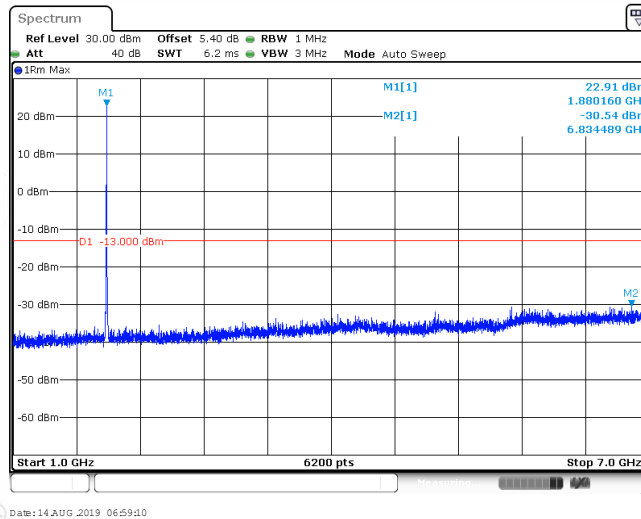
Band II_9400



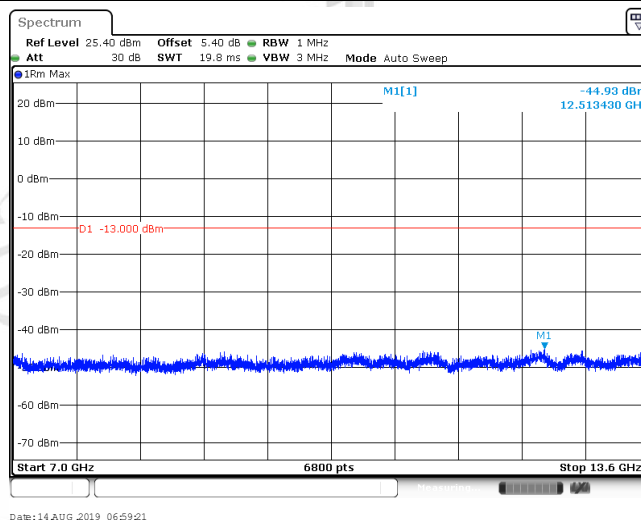
Band II_9400



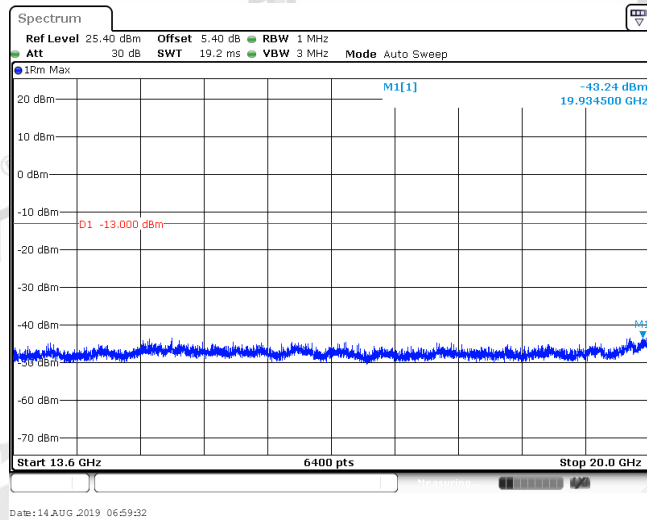
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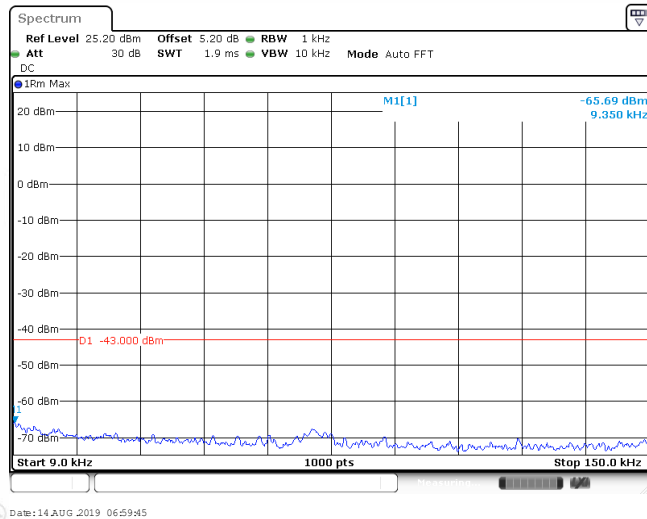
Band II_9400



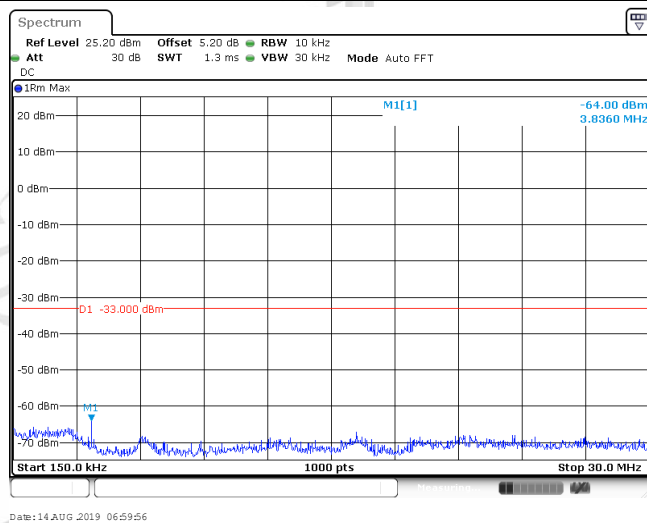
Band II_9400



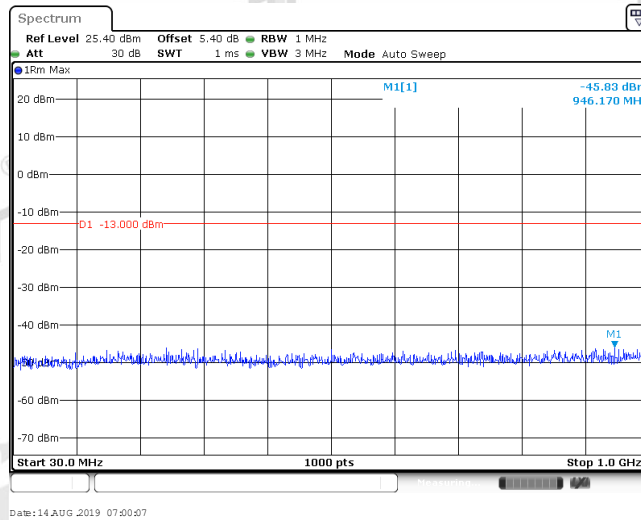
Band II_9400



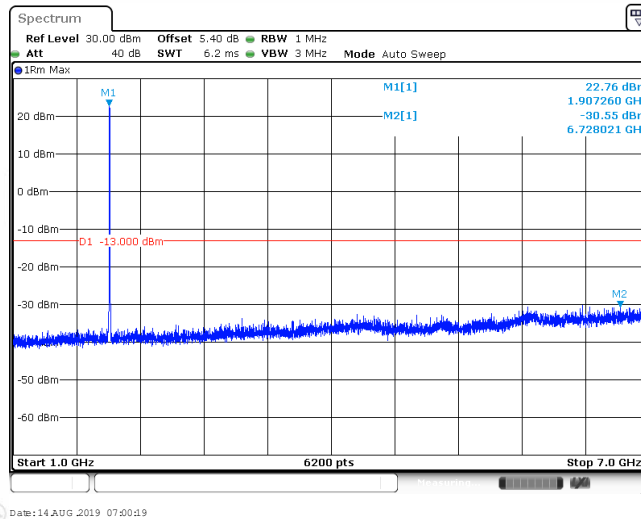
Band II_9538



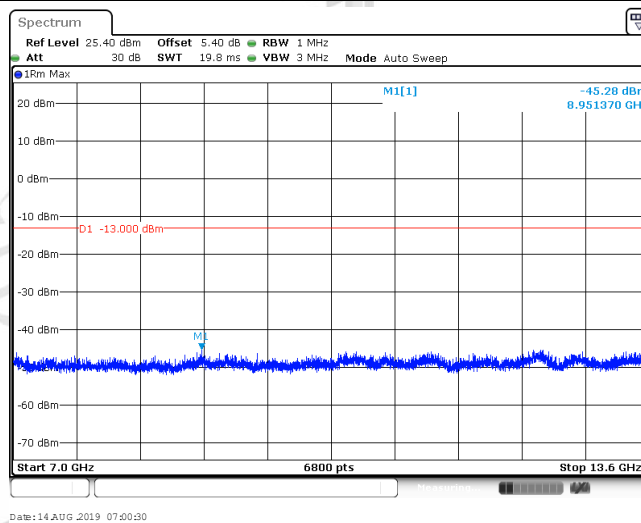
Band II_9538



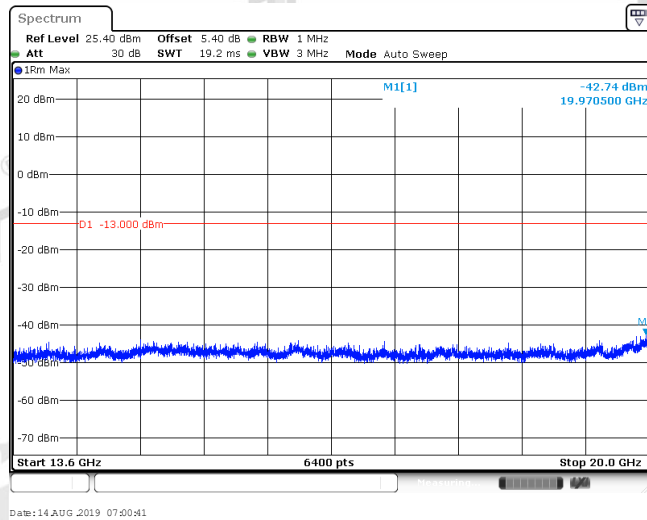
Band II_9538



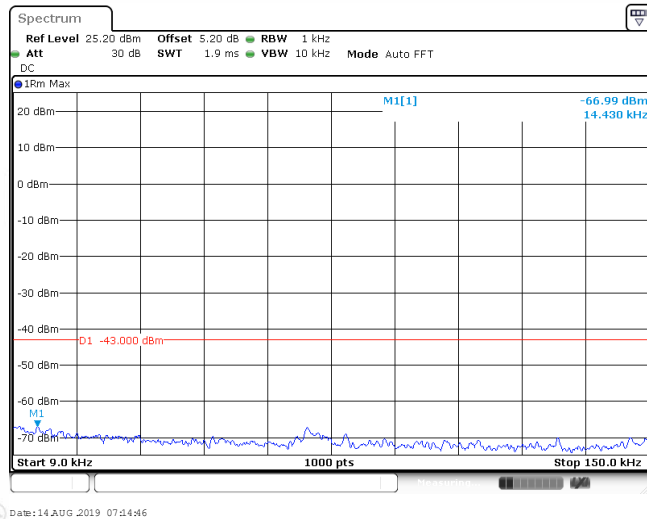
Band II_9538



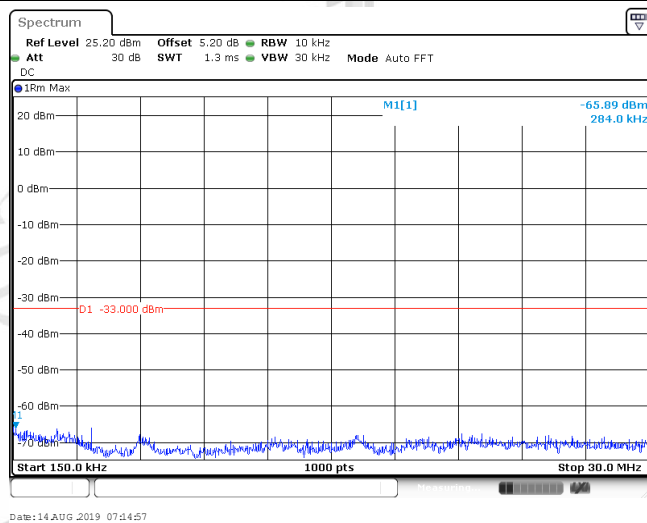
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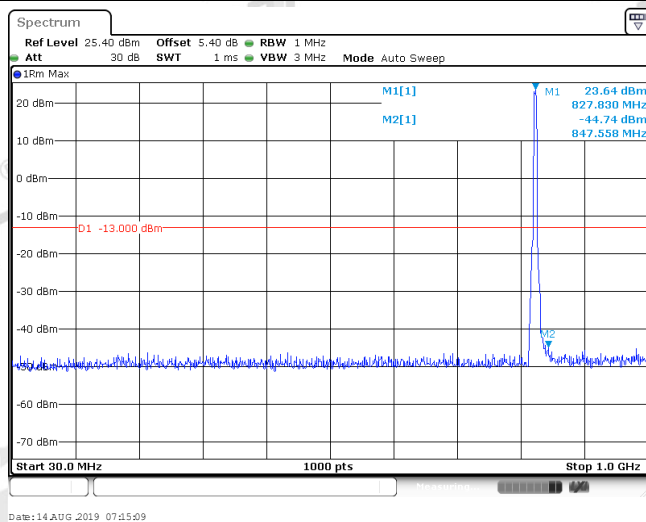
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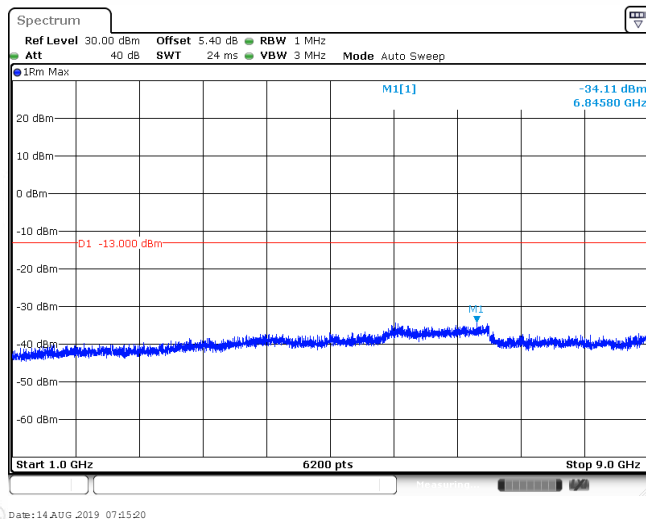
Band V_4132



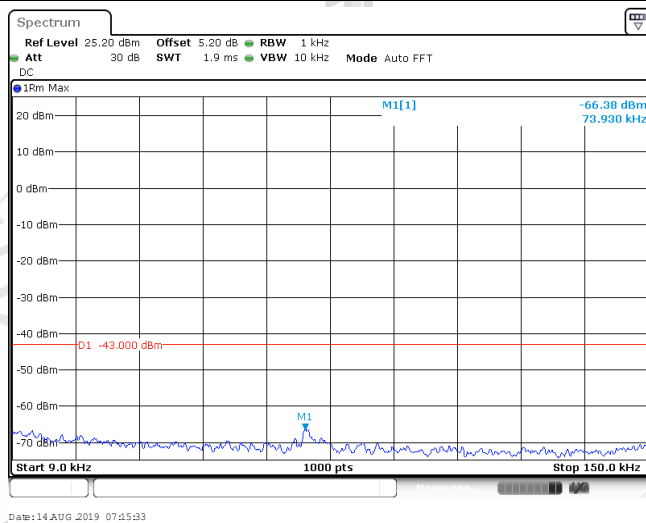
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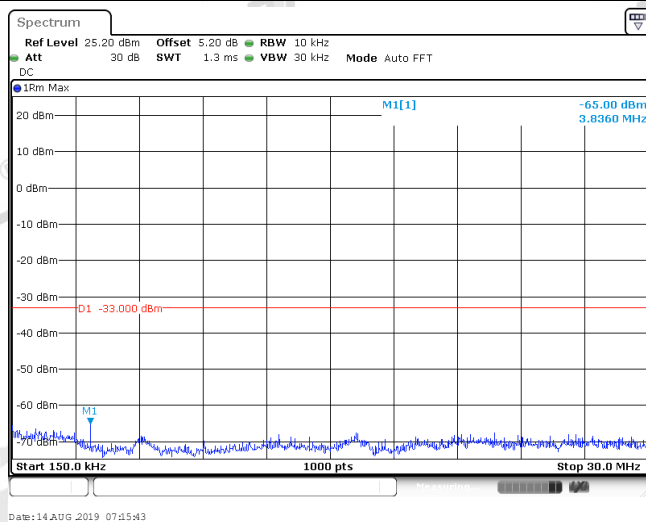
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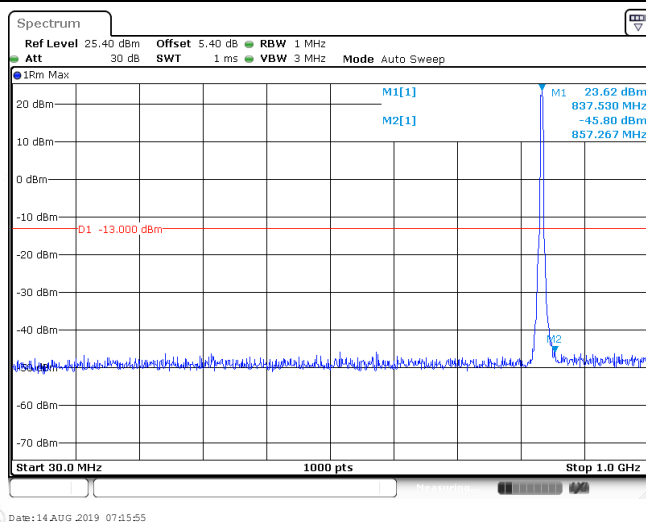
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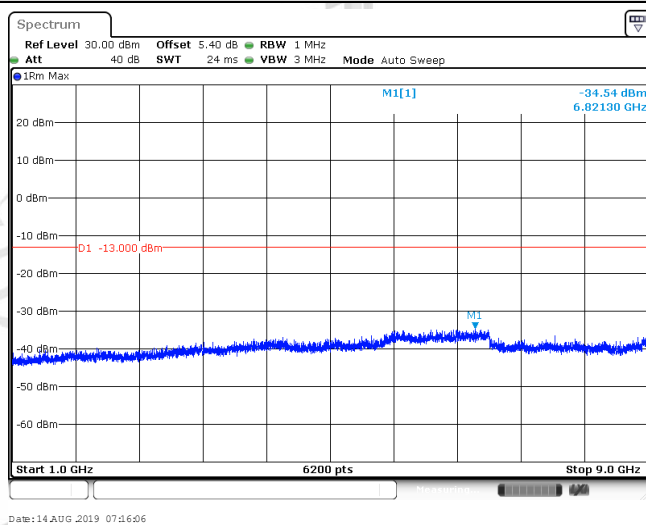
Band V_4182



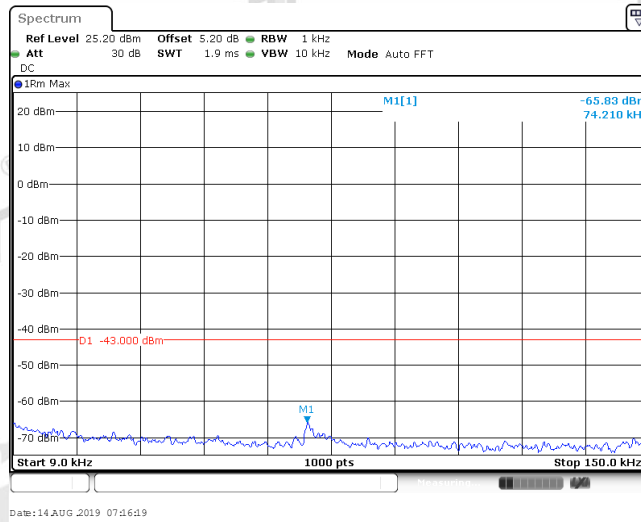
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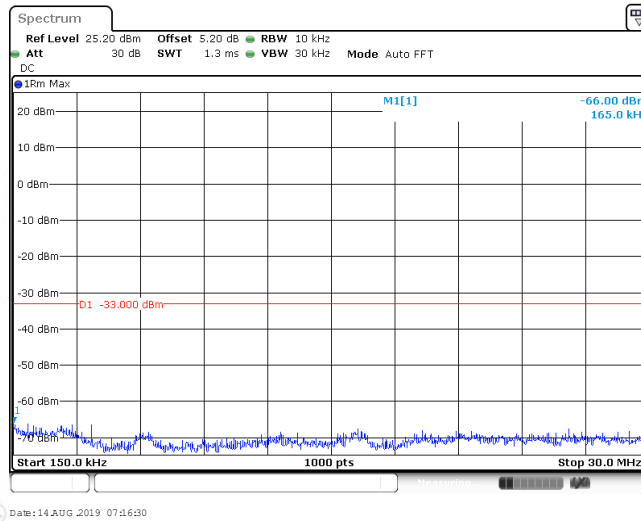
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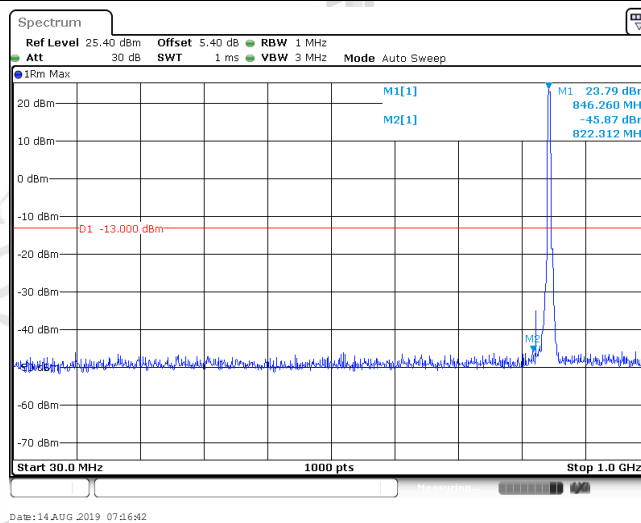
Band V_4182



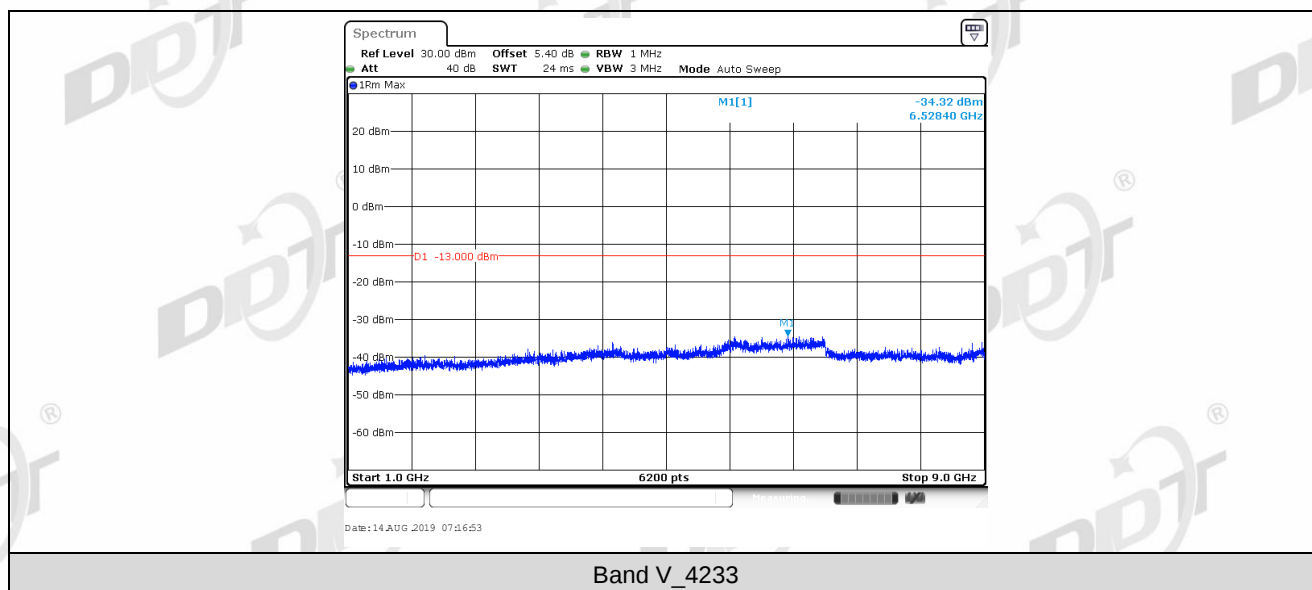
Band V_4233



Band V_4233



Band V_4233



9. Frequency Stability

9.1. Frequency Vs Voltage

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	-9.38	-0.005062	±2.5	PASS
Band II	QPSK	9262	VN	TN	-10.09	-0.005444	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.86	-0.005325	±2.5	PASS
Band II	QPSK	9400	VL	TN	-13.55	-0.007206	±2.5	PASS
Band II	QPSK	9400	VN	TN	-14.79	-0.007868	±2.5	PASS
Band II	QPSK	9400	VH	TN	-5.54	-0.002949	±2.5	PASS
Band II	QPSK	9538	VL	TN	-10.60	-0.005557	±2.5	PASS
Band II	QPSK	9538	VN	TN	-12.48	-0.006543	±2.5	PASS
Band II	QPSK	9538	VH	TN	-14.41	-0.007552	±2.5	PASS
Band II	16QAM	9262	VL	TN	0.42	0.000225	±2.5	PASS
Band II	16QAM	9262	VN	TN	-10.72	-0.005784	±2.5	PASS
Band II	16QAM	9262	VH	TN	-10.85	-0.005857	±2.5	PASS
Band II	16QAM	9400	VL	TN	-13.89	-0.007388	±2.5	PASS
Band II	16QAM	9400	VN	TN	-10.57	-0.005621	±2.5	PASS
Band II	16QAM	9400	VH	TN	10.07	0.005358	±2.5	PASS
Band II	16QAM	9538	VL	TN	11.27	0.005909	±2.5	PASS
Band II	16QAM	9538	VN	TN	14.27	0.007482	±2.5	PASS
Band II	16QAM	9538	VH	TN	14.98	0.007850	±2.5	PASS
Band V	QPSK	4132	VL	TN	-7.61	-0.009209	±2.5	PASS
Band V	QPSK	4132	VN	TN	-5.36	-0.006483	±2.5	PASS
Band V	QPSK	4132	VH	TN	-11.96	-0.014471	±2.5	PASS
Band V	QPSK	4182	VL	TN	-5.21	-0.006234	±2.5	PASS
Band V	QPSK	4182	VN	TN	-8.58	-0.010253	±2.5	PASS
Band V	QPSK	4182	VH	TN	-8.68	-0.010382	±2.5	PASS
Band V	QPSK	4233	VL	TN	-9.60	-0.011338	±2.5	PASS
Band V	QPSK	4233	VN	TN	-6.99	-0.008254	±2.5	PASS
Band V	QPSK	4233	VH	TN	-9.27	-0.010949	±2.5	PASS
Band V	16QAM	4132	VL	TN	7.47	0.009034	±2.5	PASS
Band V	16QAM	4132	VN	TN	6.74	0.008151	±2.5	PASS
Band V	16QAM	4132	VH	TN	-2.15	-0.002597	±2.5	PASS
Band V	16QAM	4182	VL	TN	-4.80	-0.005741	±2.5	PASS
Band V	16QAM	4182	VN	TN	7.65	0.009151	±2.5	PASS
Band V	16QAM	4182	VH	TN	-5.73	-0.006852	±2.5	PASS
Band V	16QAM	4233	VL	TN	-4.10	-0.004845	±2.5	PASS
Band V	16QAM	4233	VN	TN	-0.12	-0.000145	±2.5	PASS
Band V	16QAM	4233	VH	TN	13.53	0.015985	±2.5	PASS

9.2. Frequency Vs Temperature

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	-13.58	-0.007329	±2.5	PASS
Band II	QPSK	9262	VN	-20	-9.61	-0.005190	±2.5	PASS
Band II	QPSK	9262	VN	-10	-12.58	-0.006792	±2.5	PASS
Band II	QPSK	9262	VN	0	-16.14	-0.008715	±2.5	PASS
Band II	QPSK	9262	VN	10	-8.48	-0.004579	±2.5	PASS
Band II	QPSK	9262	VN	20	-9.93	-0.005363	±2.5	PASS
Band II	QPSK	9262	VN	30	-9.03	-0.004877	±2.5	PASS
Band II	QPSK	9262	VN	40	-11.92	-0.006433	±2.5	PASS
Band II	QPSK	9262	VN	50	-13.85	-0.007479	±2.5	PASS
Band II	QPSK	9400	VN	-30	-12.54	-0.006669	±2.5	PASS
Band II	QPSK	9400	VN	-20	-8.88	-0.004721	±2.5	PASS
Band II	QPSK	9400	VN	-10	-14.41	-0.007666	±2.5	PASS
Band II	QPSK	9400	VN	0	-7.45	-0.003964	±2.5	PASS
Band II	QPSK	9400	VN	10	-6.54	-0.003477	±2.5	PASS
Band II	QPSK	9400	VN	20	-10.89	-0.005794	±2.5	PASS
Band II	QPSK	9400	VN	30	-10.71	-0.005695	±2.5	PASS
Band II	QPSK	9400	VN	40	-14.37	-0.007643	±2.5	PASS
Band II	QPSK	9400	VN	50	-14.68	-0.007811	±2.5	PASS
Band II	QPSK	9538	VN	-30	-14.37	-0.007533	±2.5	PASS
Band II	QPSK	9538	VN	-20	-12.32	-0.006460	±2.5	PASS
Band II	QPSK	9538	VN	-10	-10.56	-0.005538	±2.5	PASS
Band II	QPSK	9538	VN	0	-6.95	-0.003645	±2.5	PASS
Band II	QPSK	9538	VN	10	-8.96	-0.004694	±2.5	PASS
Band II	QPSK	9538	VN	20	-6.91	-0.003622	±2.5	PASS
Band II	QPSK	9538	VN	30	-8.60	-0.004507	±2.5	PASS
Band II	QPSK	9538	VN	40	-8.95	-0.004691	±2.5	PASS
Band II	QPSK	9538	VN	50	-11.79	-0.006183	±2.5	PASS
Band II	16QAM	9262	VN	-30	13.83	0.007466	±2.5	PASS
Band II	16QAM	9262	VN	-20	-14.32	-0.007730	±2.5	PASS
Band II	16QAM	9262	VN	-10	9.07	0.004897	±2.5	PASS
Band II	16QAM	9262	VN	0	-12.12	-0.006542	±2.5	PASS
Band II	16QAM	9262	VN	10	-11.19	-0.006039	±2.5	PASS
Band II	16QAM	9262	VN	20	-6.64	-0.003585	±2.5	PASS
Band II	16QAM	9262	VN	30	14.94	0.008067	±2.5	PASS
Band II	16QAM	9262	VN	40	-11.88	-0.006413	±2.5	PASS
Band II	16QAM	9262	VN	50	-8.75	-0.004725	±2.5	PASS
Band II	16QAM	9400	VN	-30	-4.64	-0.002466	±2.5	PASS
Band II	16QAM	9400	VN	-20	6.73	0.003579	±2.5	PASS
Band II	16QAM	9400	VN	-10	-7.94	-0.004224	±2.5	PASS
Band II	16QAM	9400	VN	0	-6.10	-0.003247	±2.5	PASS
Band II	16QAM	9400	VN	10	12.57	0.006686	±2.5	PASS
Band II	16QAM	9400	VN	20	12.81	0.006812	±2.5	PASS
Band II	16QAM	9400	VN	30	10.28	0.005467	±2.5	PASS
Band II	16QAM	9400	VN	40	14.70	0.007817	±2.5	PASS
Band II	16QAM	9400	VN	50	6.16	0.003278	±2.5	PASS
Band II	16QAM	9538	VN	-30	14.85	0.007786	±2.5	PASS
Band II	16QAM	9538	VN	-20	-3.10	-0.001627	±2.5	PASS
Band II	16QAM	9538	VN	-10	-0.04	-0.000020	±2.5	PASS
Band II	16QAM	9538	VN	0	-4.85	-0.002542	±2.5	PASS
Band II	16QAM	9538	VN	10	4.28	0.002245	±2.5	PASS
Band II	16QAM	9538	VN	20	13.24	0.006940	±2.5	PASS
Band II	16QAM	9538	VN	30	7.39	0.003873	±2.5	PASS
Band II	16QAM	9538	VN	40	7.16	0.003754	±2.5	PASS
Band II	16QAM	9538	VN	50	-14.42	-0.007560	±2.5	PASS
Band V	QPSK	4132	VN	-30	-10.71	-0.012957	±2.5	PASS

Band V	QPSK	4132	VN	-20	-6.72	-0.008127	±2.5	PASS
Band V	QPSK	4132	VN	-10	-6.54	-0.007911	±2.5	PASS
Band V	QPSK	4132	VN	0	-12.75	-0.015423	±2.5	PASS
Band V	QPSK	4132	VN	10	-7.89	-0.009547	±2.5	PASS
Band V	QPSK	4132	VN	20	-13.15	-0.015917	±2.5	PASS
Band V	QPSK	4132	VN	30	-8.99	-0.010879	±2.5	PASS
Band V	QPSK	4132	VN	40	-14.00	-0.016938	±2.5	PASS
Band V	QPSK	4132	VN	50	-10.43	-0.012619	±2.5	PASS
Band V	QPSK	4182	VN	-30	-6.19	-0.007406	±2.5	PASS
Band V	QPSK	4182	VN	-20	-6.18	-0.007389	±2.5	PASS
Band V	QPSK	4182	VN	-10	-13.23	-0.015812	±2.5	PASS
Band V	QPSK	4182	VN	0	-10.63	-0.012708	±2.5	PASS
Band V	QPSK	4182	VN	10	-8.36	-0.009997	±2.5	PASS
Band V	QPSK	4182	VN	20	-7.87	-0.009415	±2.5	PASS
Band V	QPSK	4182	VN	30	-9.32	-0.011143	±2.5	PASS
Band V	QPSK	4182	VN	40	-5.26	-0.006285	±2.5	PASS
Band V	QPSK	4182	VN	50	-12.50	-0.014940	±2.5	PASS
Band V	QPSK	4233	VN	-30	-13.41	-0.015841	±2.5	PASS
Band V	QPSK	4233	VN	-20	-8.08	-0.009547	±2.5	PASS
Band V	QPSK	4233	VN	-10	-11.44	-0.013518	±2.5	PASS
Band V	QPSK	4233	VN	0	-8.04	-0.009496	±2.5	PASS
Band V	QPSK	4233	VN	10	-9.53	-0.011253	±2.5	PASS
Band V	QPSK	4233	VN	20	-9.09	-0.010738	±2.5	PASS
Band V	QPSK	4233	VN	30	-11.33	-0.013383	±2.5	PASS
Band V	QPSK	4233	VN	40	-8.78	-0.010375	±2.5	PASS
Band V	QPSK	4233	VN	50	-4.76	-0.005618	±2.5	PASS
Band V	16QAM	4132	VN	-30	10.11	0.012240	±2.5	PASS
Band V	16QAM	4132	VN	-20	-11.07	-0.013391	±2.5	PASS
Band V	16QAM	4132	VN	-10	12.40	0.015008	±2.5	PASS
Band V	16QAM	4132	VN	0	-2.95	-0.003572	±2.5	PASS
Band V	16QAM	4132	VN	10	6.61	0.007996	±2.5	PASS
Band V	16QAM	4132	VN	20	10.81	0.013081	±2.5	PASS
Band V	16QAM	4132	VN	30	-13.96	-0.016891	±2.5	PASS
Band V	16QAM	4132	VN	40	8.37	0.010129	±2.5	PASS
Band V	16QAM	4132	VN	50	4.45	0.005381	±2.5	PASS
Band V	16QAM	4182	VN	-30	9.56	0.011433	±2.5	PASS
Band V	16QAM	4182	VN	-20	11.93	0.014268	±2.5	PASS
Band V	16QAM	4182	VN	-10	11.60	0.013864	±2.5	PASS
Band V	16QAM	4182	VN	0	-12.97	-0.015509	±2.5	PASS
Band V	16QAM	4182	VN	10	9.13	0.010915	±2.5	PASS
Band V	16QAM	4182	VN	20	13.64	0.016311	±2.5	PASS
Band V	16QAM	4182	VN	30	5.08	0.006075	±2.5	PASS
Band V	16QAM	4182	VN	40	6.18	0.007384	±2.5	PASS
Band V	16QAM	4182	VN	50	10.97	0.013110	±2.5	PASS
Band V	16QAM	4233	VN	-30	-12.50	-0.014760	±2.5	PASS
Band V	16QAM	4233	VN	-20	-1.08	-0.001272	±2.5	PASS
Band V	16QAM	4233	VN	-10	-6.12	-0.007232	±2.5	PASS
Band V	16QAM	4233	VN	0	1.87	0.002210	±2.5	PASS
Band V	16QAM	4233	VN	10	12.89	0.015223	±2.5	PASS
Band V	16QAM	4233	VN	20	4.64	0.005485	±2.5	PASS
Band V	16QAM	4233	VN	30	-0.20	-0.000237	±2.5	PASS
Band V	16QAM	4233	VN	40	-8.15	-0.009630	±2.5	PASS
Band V	16QAM	4233	VN	50	-1.49	-0.001759	±2.5	PASS

The End