Appendix B

E-UTRA Band 26 (814-824)

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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 3

1.1. TEST RESULT 3

2. PEAK-TO-AVERAGE RATIO (CCDF) 7

2.1. TEST RESULT 7

2.2. TEST PLOTS 7

3. MODULATION CHARACTERISTICS 8

3.1. TEST MODE = LTE /TM1 10MHZ 8

3.1.1. TEST CHANNEL = MCH 8

3.2. TEST MODE = LTE /TM2 10MHZ 9

3.2.1. TEST CHANNEL = MCH 9

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 10

4.1. TEST RESULT 10

4.2. TEST PLOTS 11

5. BAND EDGE COMPLIANCE 21

5.1. TEST PLOTS 21

6. SPURIOUS EMISSION AT ANTENNA TERMINAL 36

6.1. TEST PLOTS 36

7. FIELD STRENGTH OF SPURIOUS RADIATION 38

7.1. TEST MODE =LTE/TM1 38

7.1.1. TEST CHANNEL = MCH 38

8. FREQUENCY STABILITY 39

8.1. FREQUENCY VS VOLTAGE 39

8.2. FREQUENCY VS TEMPERATURE 39

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	Limit (dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.58	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.78	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.55	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	23.99	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.64	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.70	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.83	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.56	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.57	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.62	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.69	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	23.91	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	23.77	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.80	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.51	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.76	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.52	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	23.73	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	23.77	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	23.75	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.70	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.08	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.72	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.58	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	23.05	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.88	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	23.05	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.82	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.32	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	21.97	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.03	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#1	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.81	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.87	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.09	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.26	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.11	50.00	PASS

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Band26	1.4MHz	16QAM	26783	3RB#0	22.76	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.79	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	23.02	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.77	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.79	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.59	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.64	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#7	22.83	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.60	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#4	22.88	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.74	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.67	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.75	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.62	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#0	22.69	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#4	22.81	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#7	22.70	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.68	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.57	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.79	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.49	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#4	22.70	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#7	22.80	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#0	22.71	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.77	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.61	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.09	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.14	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#0	22.01	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#7	21.77	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#4	21.75	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.83	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.12	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.08	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.25	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#4	21.67	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.95	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.66	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.94	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.13	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.03	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.04	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#7	21.55	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#0	22.09	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#4	22.05	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.98	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.81	50.00	PASS

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Band26	5MHz	QPSK	26715	1RB#12	23.62	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.59	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.48	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#6	22.81	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.78	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.82	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.59	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.69	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.62	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#13	22.70	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.80	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.62	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.65	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.55	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.57	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.66	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#13	22.61	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#6	22.74	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.76	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.75	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.72	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.13	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.07	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.73	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#13	21.60	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#0	21.59	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.76	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.26	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	21.97	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.16	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.72	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.62	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.58	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.72	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.28	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.04	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.33	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#0	21.53	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#13	21.67	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#6	21.68	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.83	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.46	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.57	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	24.17	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#25	22.66	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#12	22.80	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#0	22.75	50.00	PASS

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Band26	10MHz	QPSK	26740	50RB#0	22.78	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.51	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.61	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.62	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#0	21.71	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#12	21.90	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#25	21.74	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.75	50.00	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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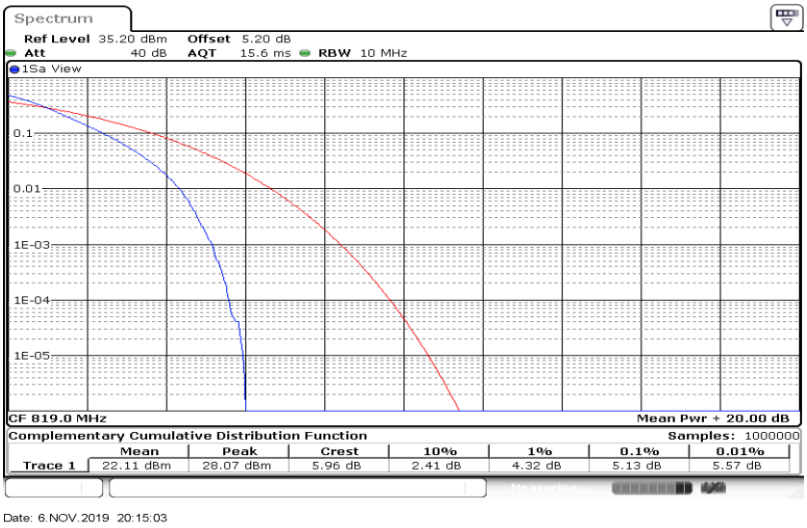
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

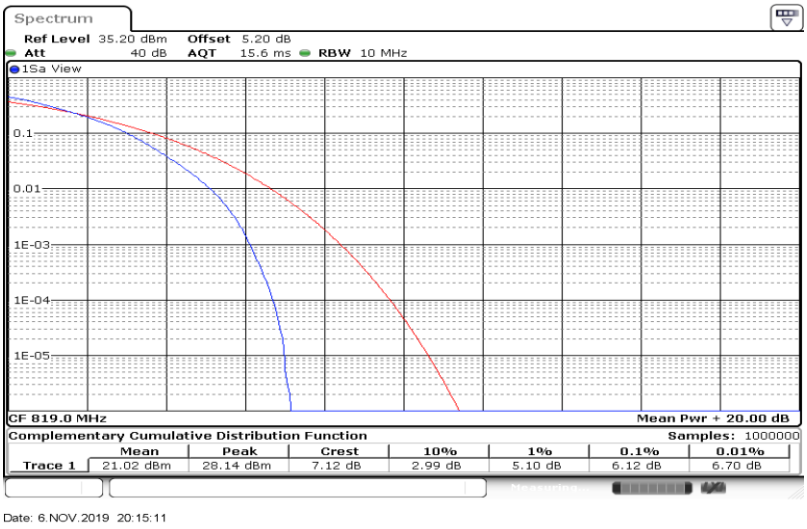
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.13	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.12	13	PASS

2.2. Test Plots

Band26-10MHz-QPSK-26740-50RB#0



Band26-10MHz-16QAM-26740-50RB#0



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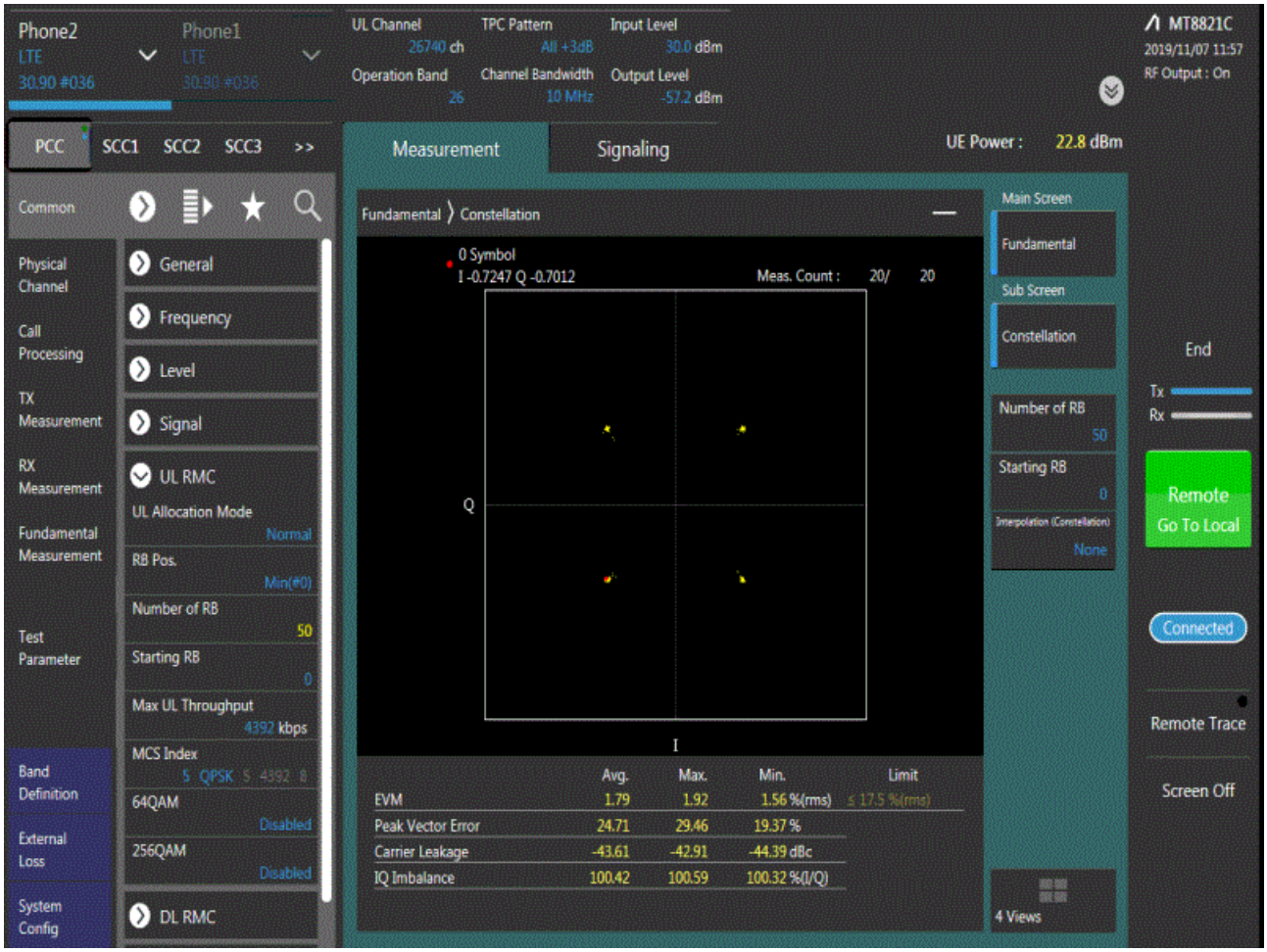
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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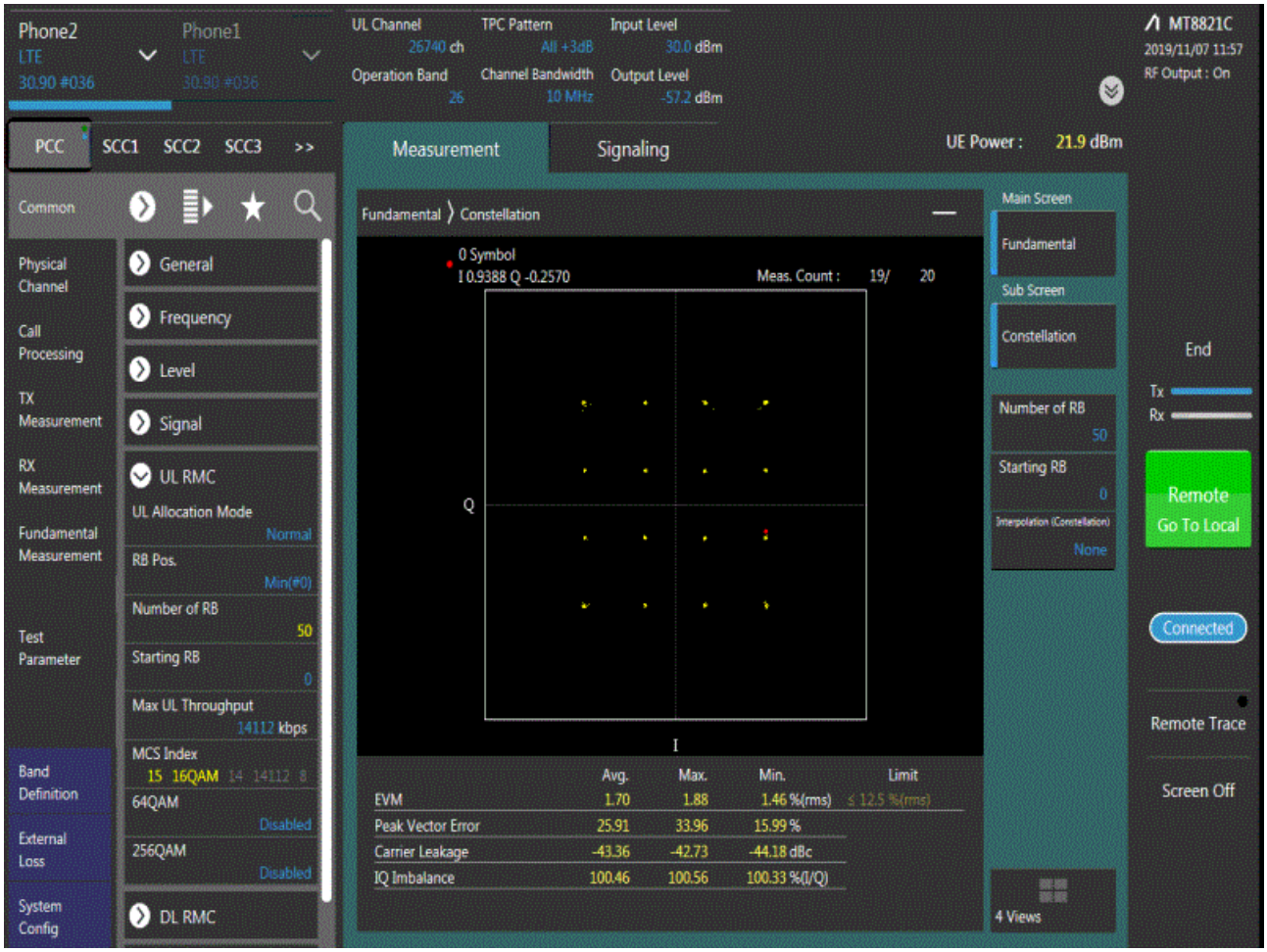
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.094	1.302	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.094	1.314	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.097	1.278	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.103	1.308	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.278	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.097	1.290	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	2.982	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.703	2.982	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.964	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.988	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.697	2.994	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.703	2.994	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.466	4.940	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.486	4.940	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.486	4.950	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.486	4.970	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.466	4.970	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.890	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.931	9.680	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.911	9.740	PASS

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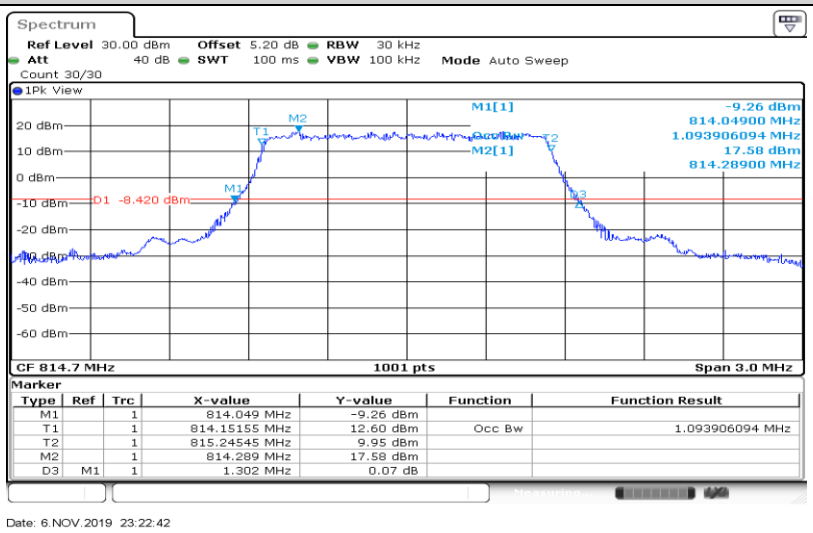
4.2. Test Plots

Band26-1.4MHz-QPSK-26697-6RB#0-1.094



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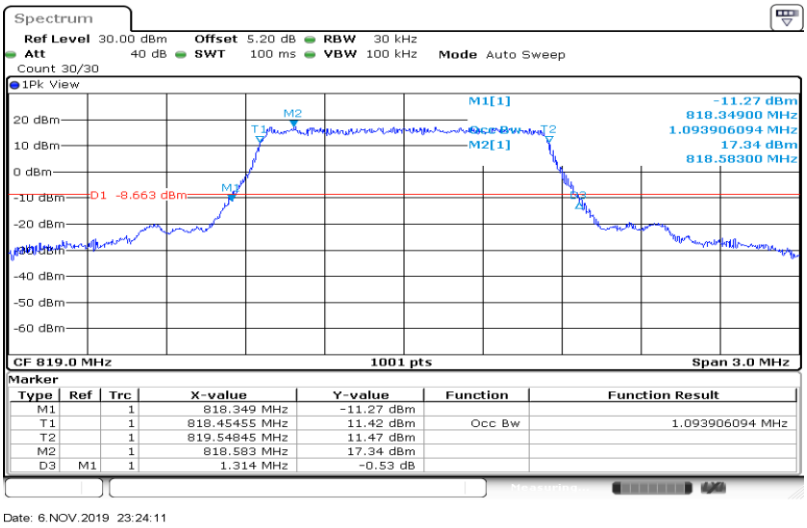

Band26-1.4MHz-QPSK-26783-6RB#0-1.097

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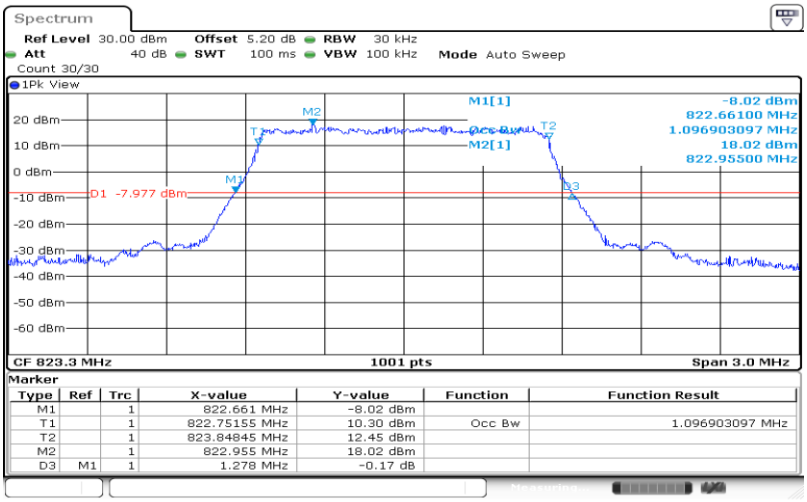
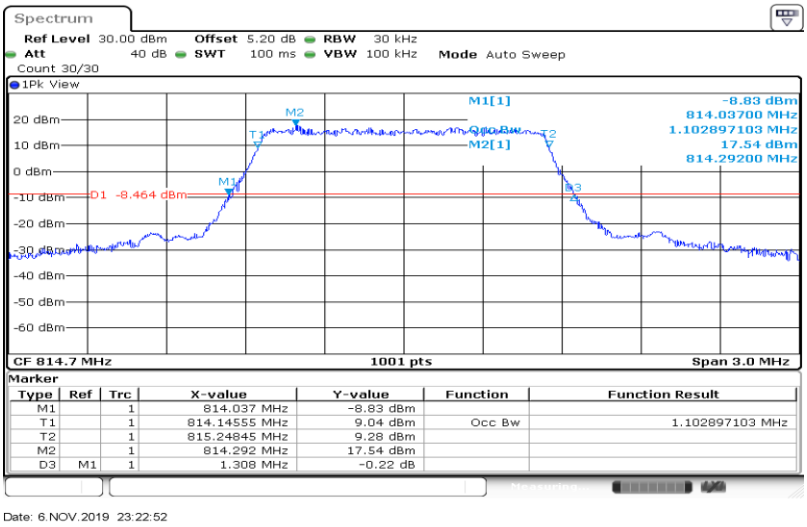


Band26-1.4MHz-16QAM-26697-6RB#0-1.103



Band26-1.4MHz-16QAM-26740-6RB#0-1.091

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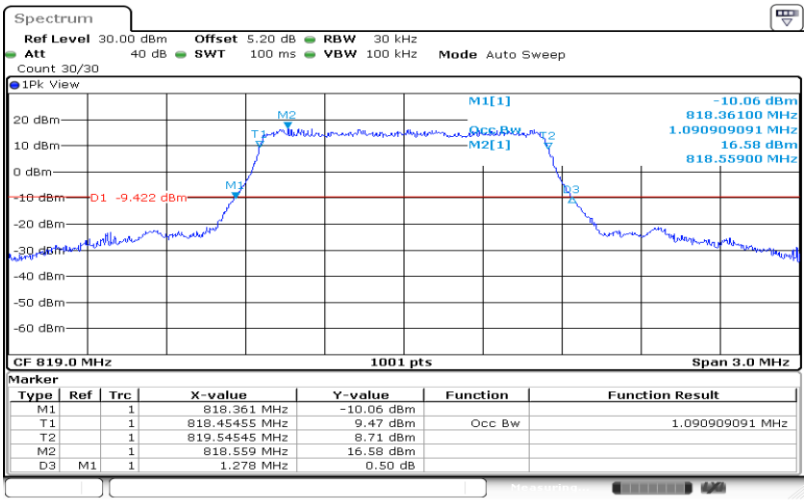
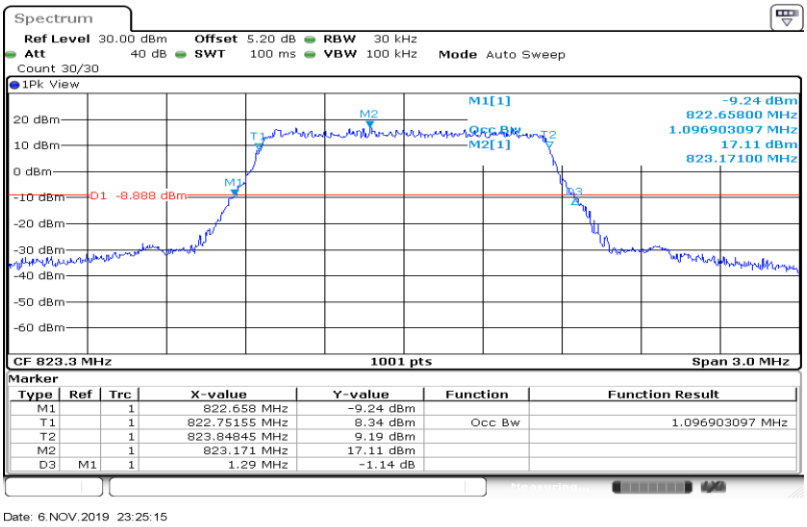


Band26-1.4MHz-16QAM-26783-6RB#0-1.097



Band26-3MHz-QPSK-26705-15RB#0-2.697

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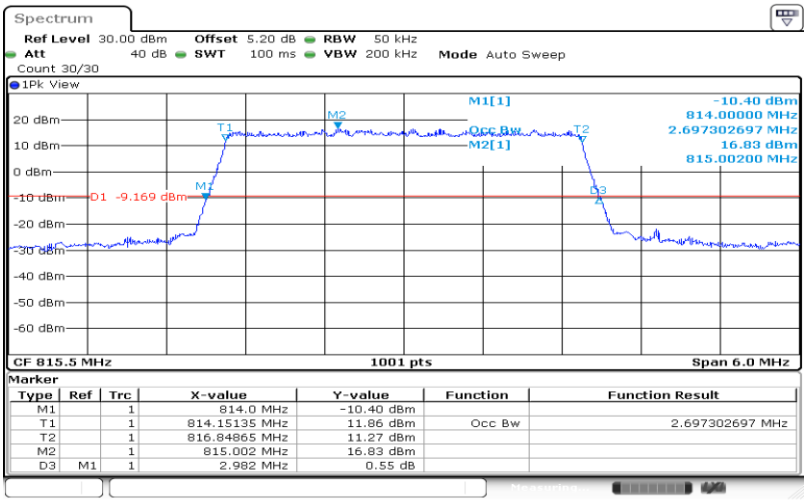

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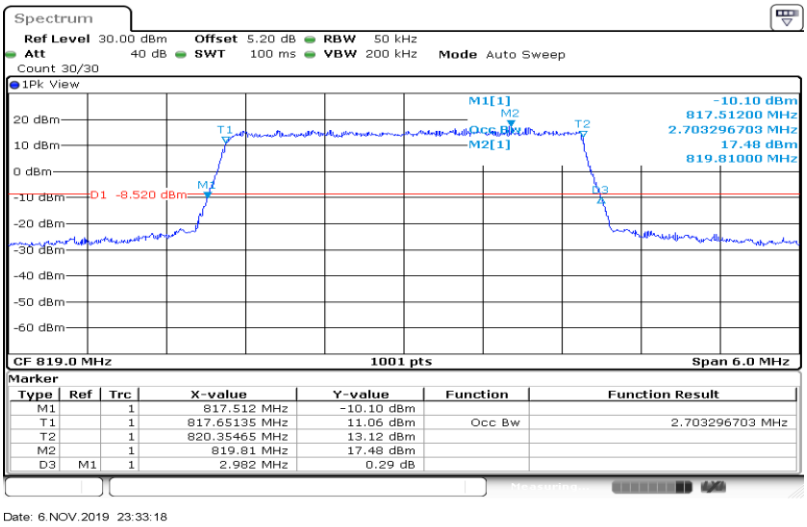

Band26-3MHz-QPSK-26775-15RB#0-2.697

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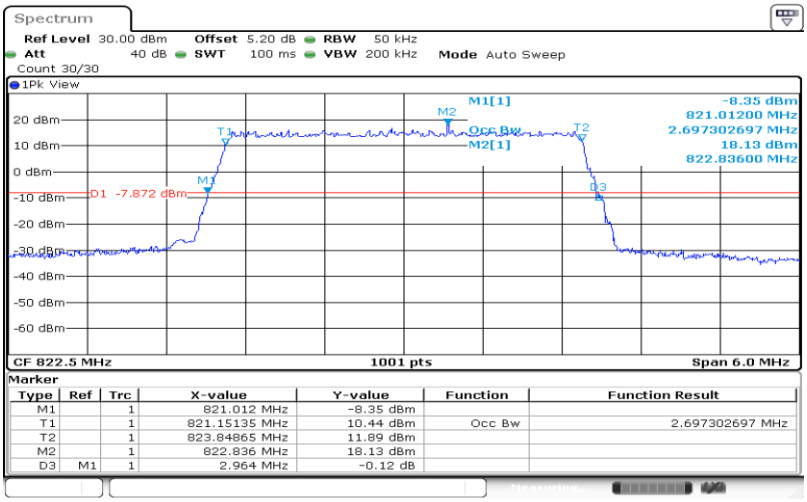
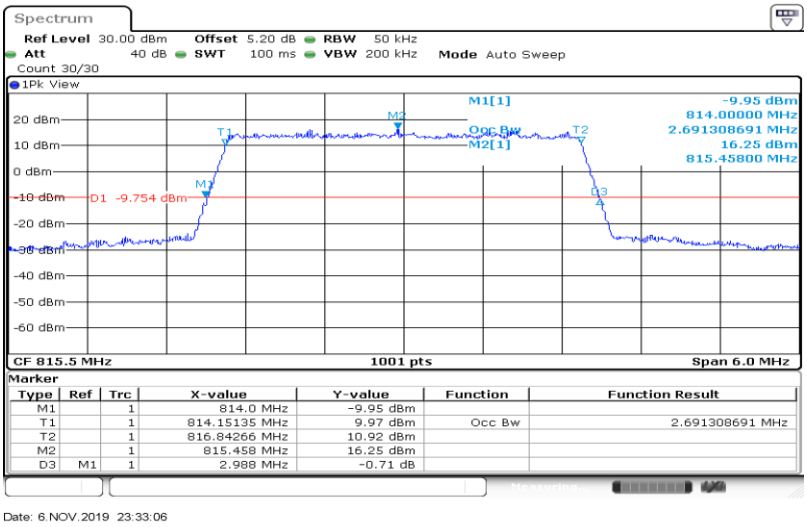


Band26-3MHz-16QAM-26705-15RB#0-2.691



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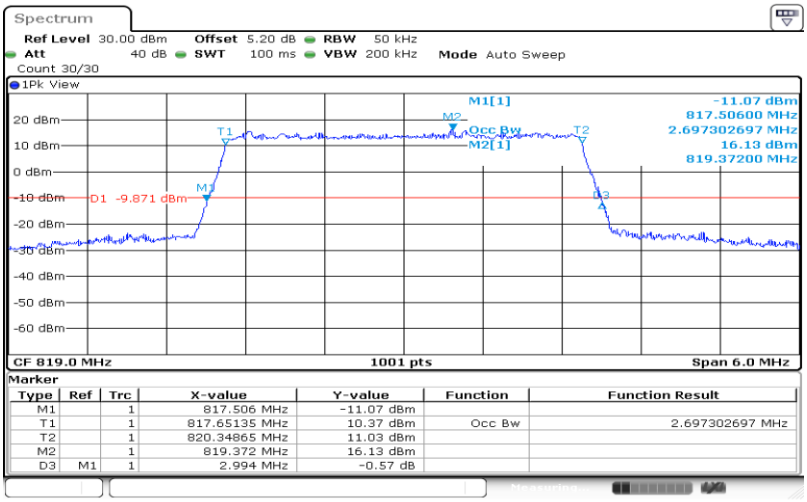

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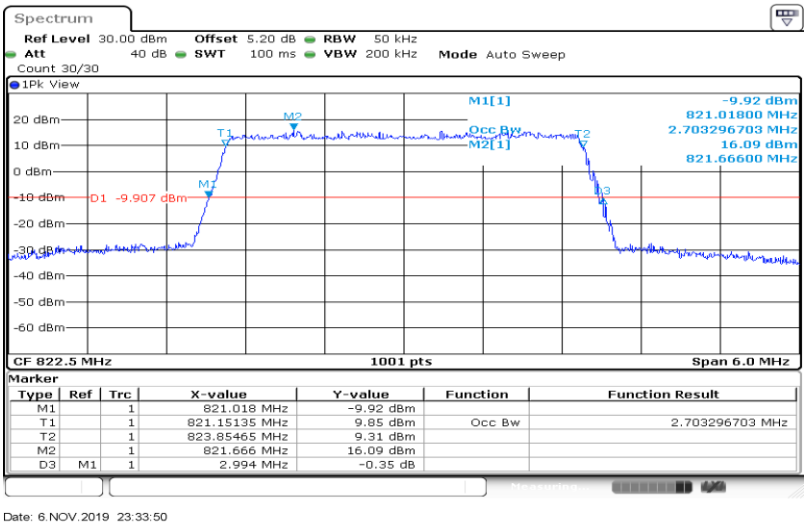

Band26-5MHz-QPSK-26715-25RB#0-4.466

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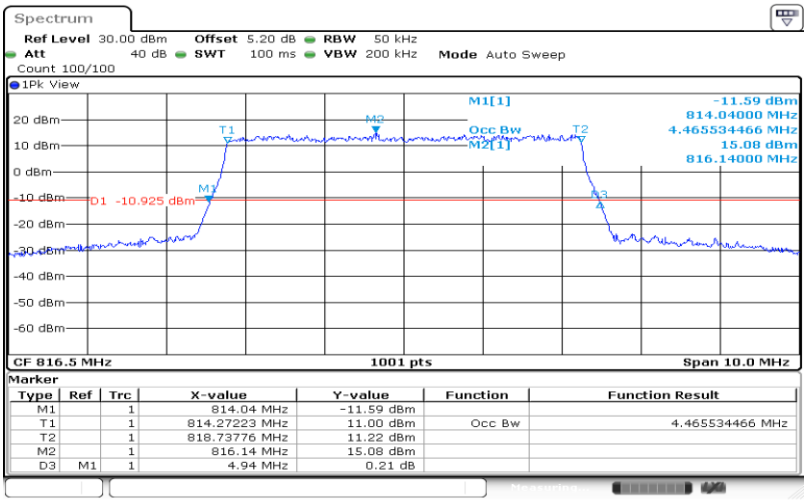

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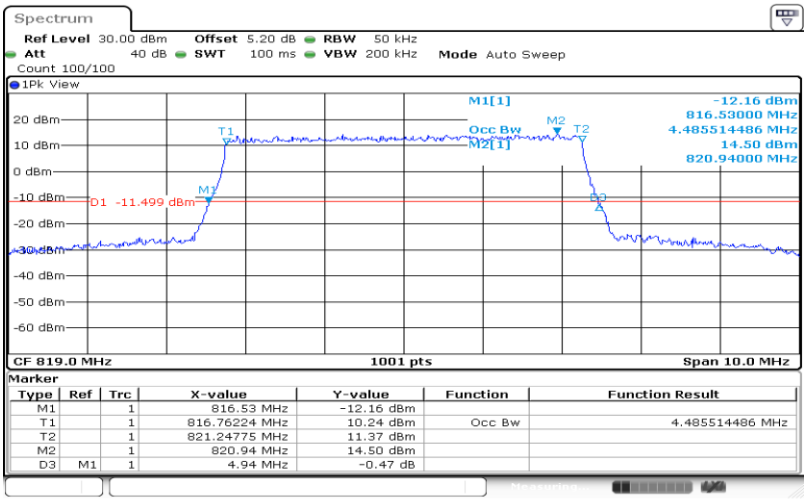
Band26-5MHz-QPSK-26740-25RB#0-4.486



Date: 6.NOV.2019 23:40:44

Band26-5MHz-QPSK-26765-25RB#0-4.486

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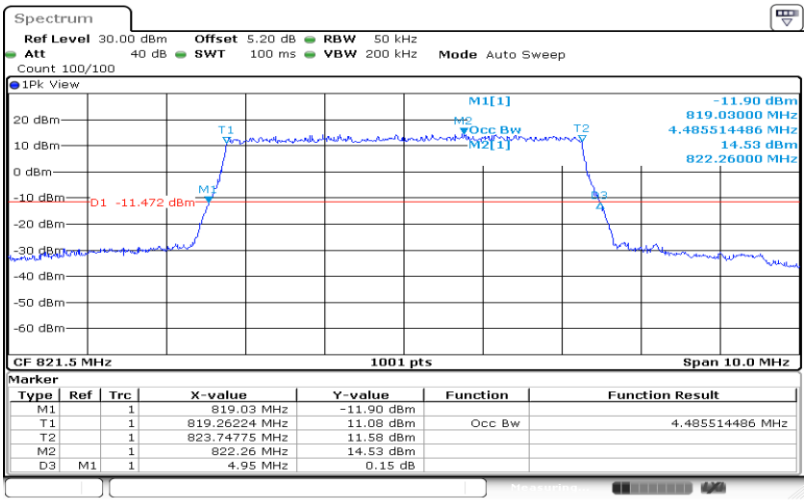
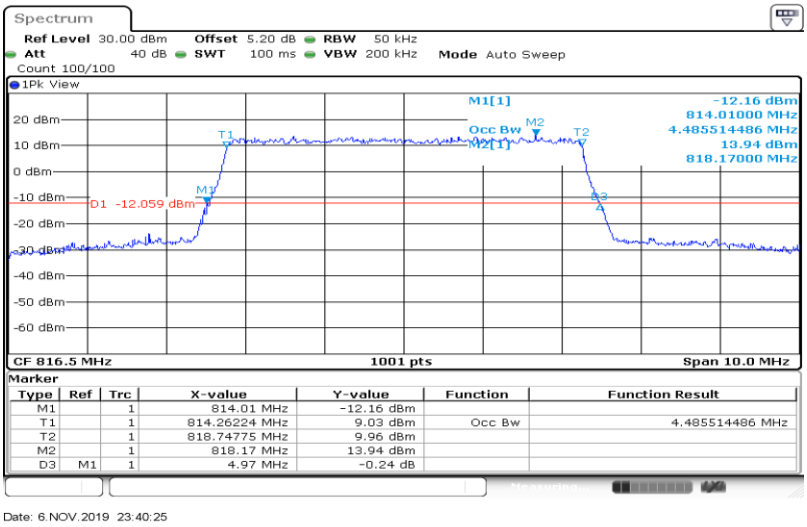


Band26-5MHz-16QAM-26715-25RB#0-4.486



Band26-5MHz-16QAM-26740-25RB#0-4.466

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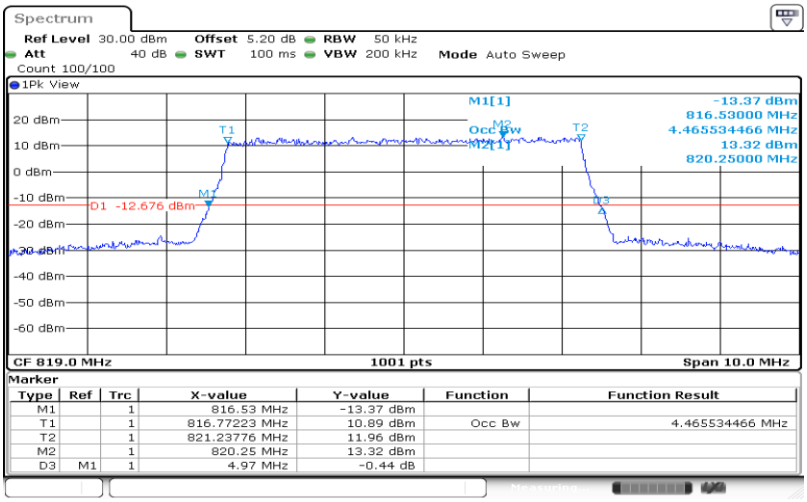

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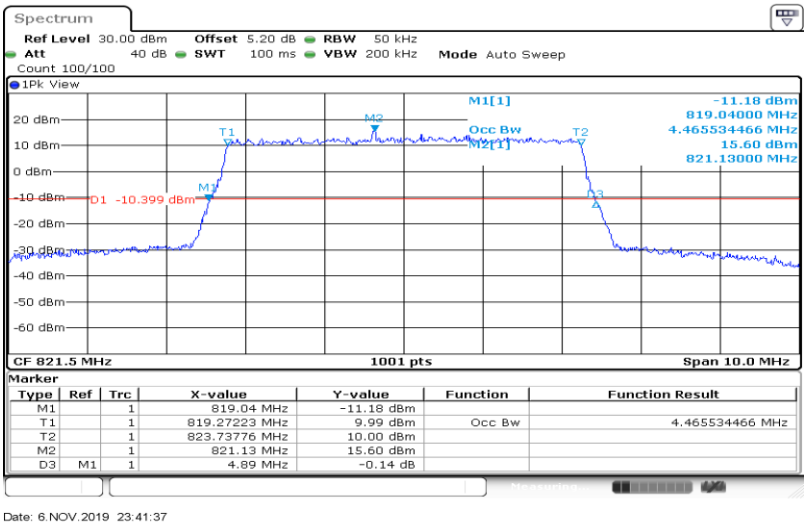

Band26-10MHz-QPSK-26740-50RB#0-8.931

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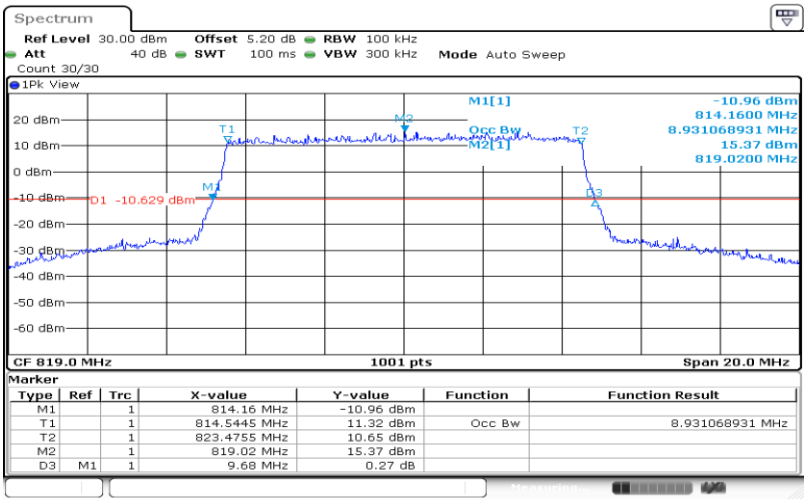
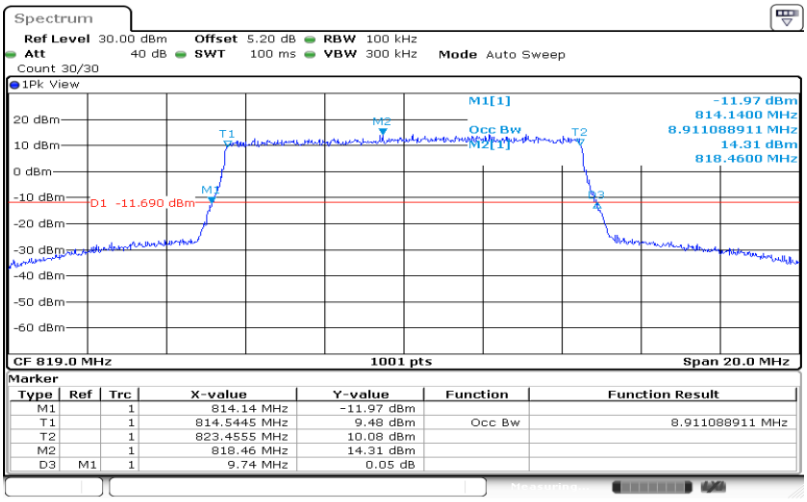


Band26-10MHz-16QAM-26740-50RB#0-8.911



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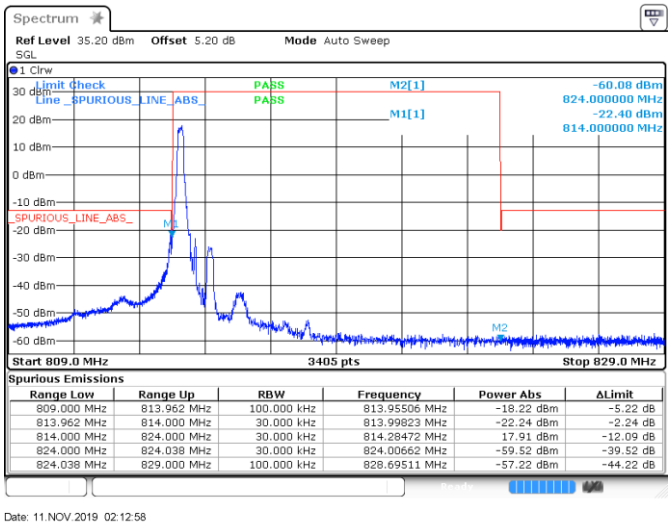
5. Band Edge Compliance

5.1. Test Plots

Band26-1.4MHz-QPSK-26697-1RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95506 MHz	-18.22 dBm	-5.22 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99823 MHz	-22.24 dBm	-2.24 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.28472 MHz	17.91 dBm	-12.09 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00662 MHz	-59.52 dBm	-39.52 dB
824.038 MHz	829.000 MHz	100.000 kHz	828.69511 MHz	-57.22 dBm	-44.22 dB

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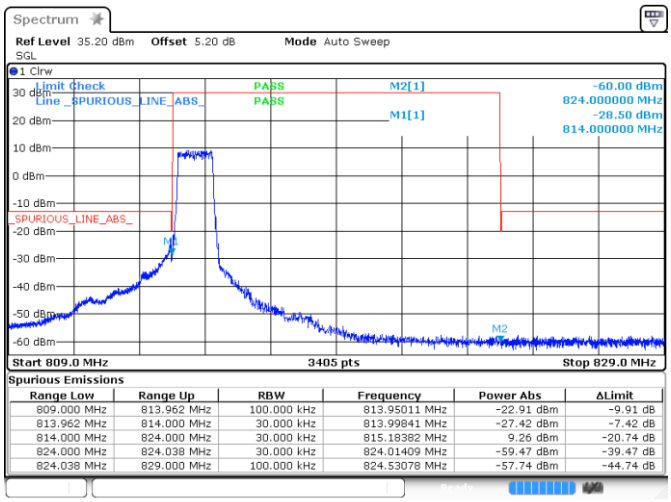
Band26-1.4MHz-QPSK-26697-6RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95011 MHz	-22.91 dBm	-9.91 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99841 MHz	-27.42 dBm	-7.42 dB
814.000 MHz	824.000 MHz	30.000 kHz	815.18382 MHz	9.26 dBm	-20.74 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.01409 MHz	-59.47 dBm	-39.47 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.53078 MHz	-57.74 dBm	-44.74 dB

Date: 11.NOV.2019 02:14:49

Band26-1.4MHz-QPSK-26783-1RB#5

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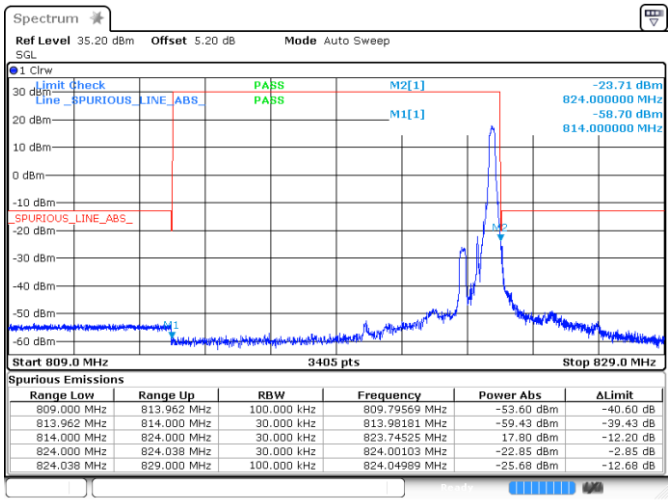

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	809.79569 MHz	-53.60 dBm	-40.60 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.98181 MHz	-59.43 dBm	-39.43 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.74525 MHz	17.80 dBm	-12.20 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00103 MHz	-22.85 dBm	-2.85 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.04989 MHz	-25.68 dBm	-12.68 dB

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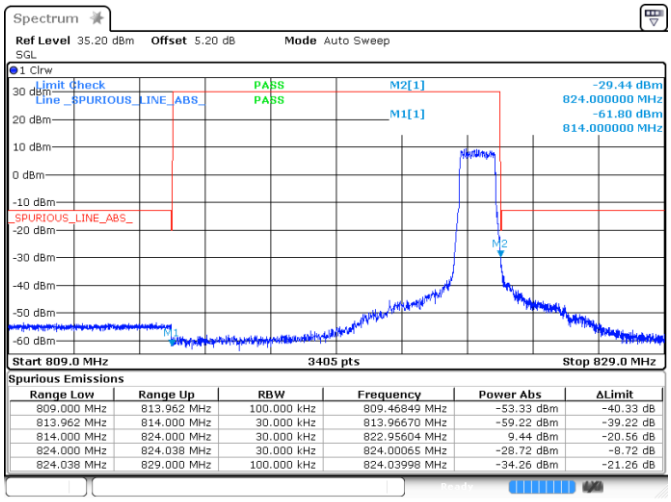
Band26-1.4MHz-QPSK-26783-6RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	809.46849 MHz	-53.33 dBm	-40.33 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.96670 MHz	-59.22 dBm	-39.22 dB
814.000 MHz	824.000 MHz	30.000 kHz	822.95604 MHz	9.44 dBm	-20.56 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00065 MHz	-28.72 dBm	-8.72 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-34.26 dBm	-21.26 dB

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Band26-1.4MHz-16QAM-26697-1RB#0

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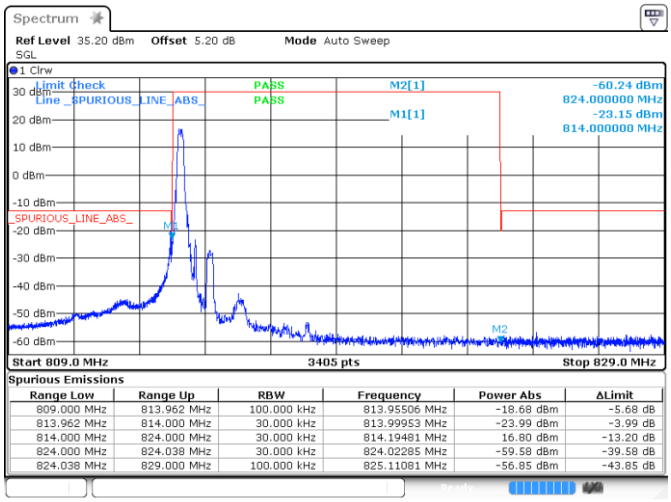

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95506 MHz	-18.68 dBm	-5.68 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99953 MHz	-23.99 dBm	-3.99 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.19481 MHz	16.80 dBm	-13.20 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.02285 MHz	-59.58 dBm	-39.58 dB
824.038 MHz	829.000 MHz	100.000 kHz	825.11081 MHz	-56.85 dBm	-43.85 dB

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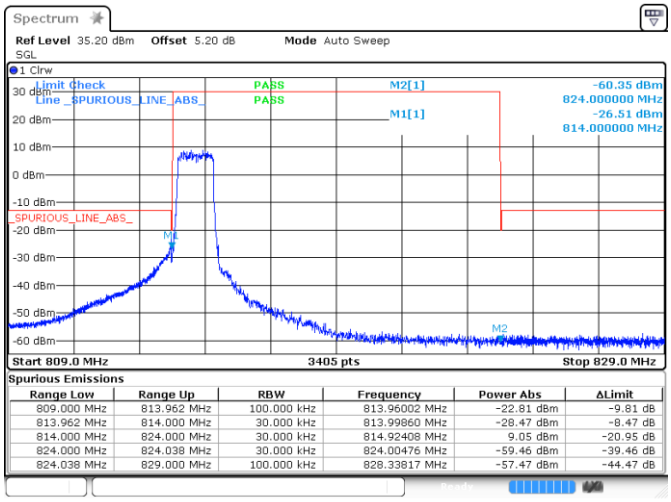
Band26-1.4MHz-16QAM-26697-6RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.96002 MHz	-22.81 dBm	-9.81 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99860 MHz	-28.47 dBm	-8.47 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.92408 MHz	9.05 dBm	-20.95 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00476 MHz	-59.46 dBm	-39.46 dB
824.038 MHz	829.000 MHz	100.000 kHz	828.33817 MHz	-57.47 dBm	-44.47 dB

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Band26-1.4MHz-16QAM-26783-1RB#5

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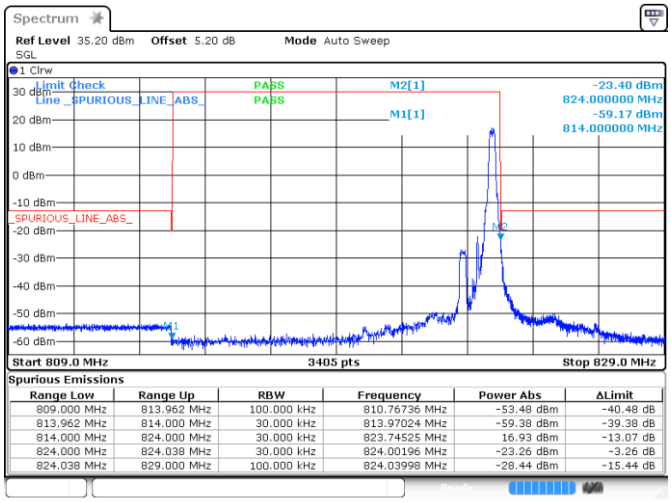
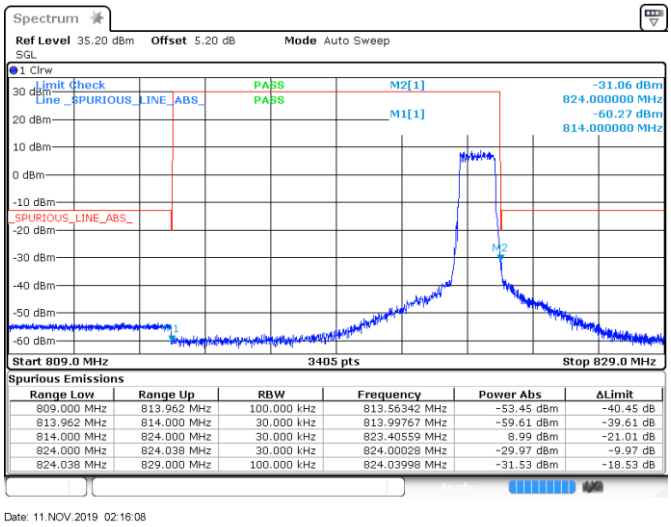


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	810.76736 MHz	-53.48 dBm	-40.48 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.97024 MHz	-59.38 dBm	-39.38 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.74525 MHz	16.93 dBm	-13.07 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00196 MHz	-23.26 dBm	-3.26 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-28.44 dBm	-15.44 dB

Band26-1.4MHz-16QAM-26783-6RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.56342 MHz	-53.45 dBm	-40.45 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99767 MHz	-59.61 dBm	-39.61 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.40559 MHz	8.99 dBm	-21.01 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00028 MHz	-29.97 dBm	-9.97 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-31.53 dBm	-18.53 dB

Band26-3MHz-QPSK-26705-1RB#0

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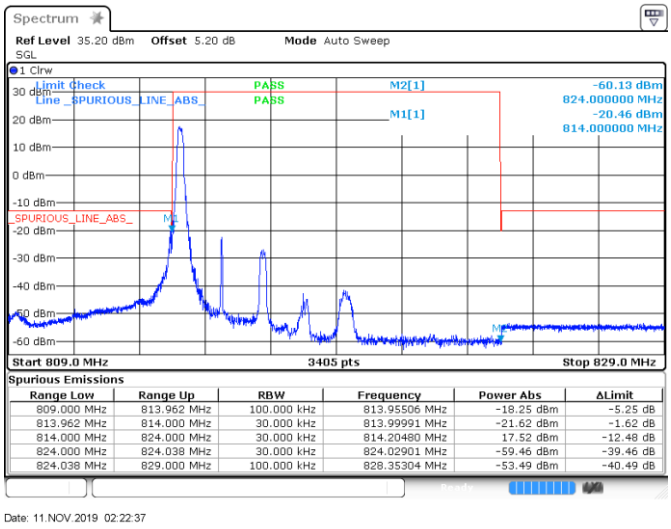

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95506 MHz	-18.25 dBm	-5.25 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99991 MHz	-21.62 dBm	-1.62 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.20480 MHz	17.52 dBm	-12.48 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.02901 MHz	-59.46 dBm	-39.46 dB
824.038 MHz	829.000 MHz	100.000 kHz	828.35304 MHz	-53.49 dBm	-40.49 dB

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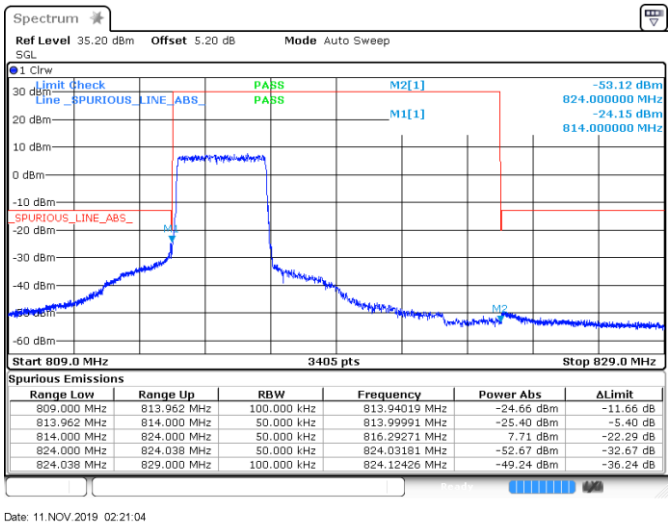
Band26-3MHz-QPSK-26705-15RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.94019 MHz	-24.66 dBm	-11.66 dB
813.962 MHz	814.000 MHz	50.000 kHz	813.99991 MHz	-25.40 dBm	-5.40 dB
814.000 MHz	824.000 MHz	50.000 kHz	816.29271 MHz	7.71 dBm	-22.29 dB
824.000 MHz	824.038 MHz	50.000 kHz	824.03181 MHz	-52.67 dBm	-32.67 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.12426 MHz	-49.24 dBm	-36.24 dB

Date: 11.NOV.2019 02:21:04

Band26-3MHz-QPSK-26775-1RB#14

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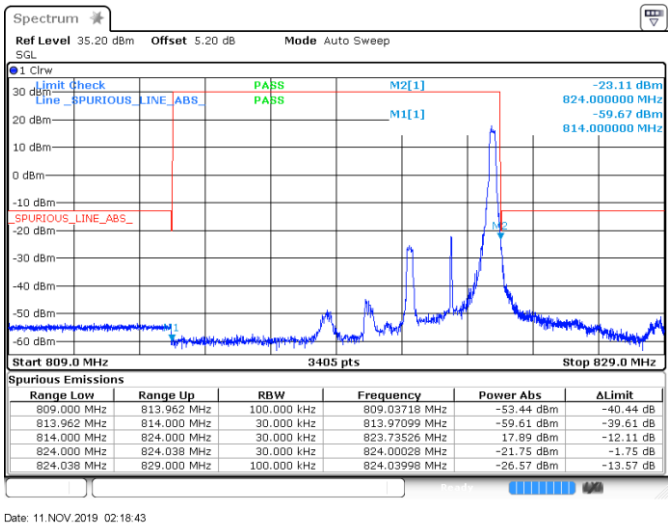
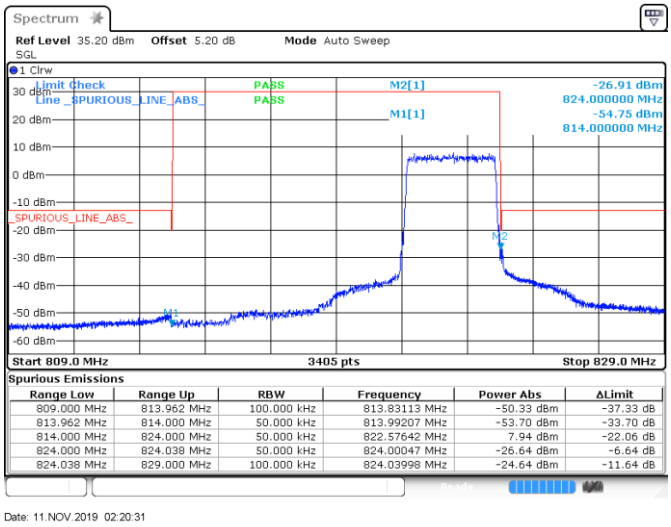


Band26-3MHz-QPSK-26775-15RB#0



Band26-3MHz-16QAM-26705-1RB#0

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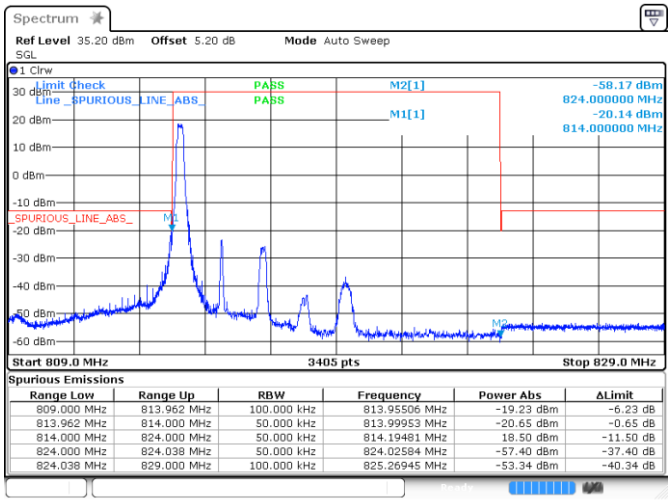
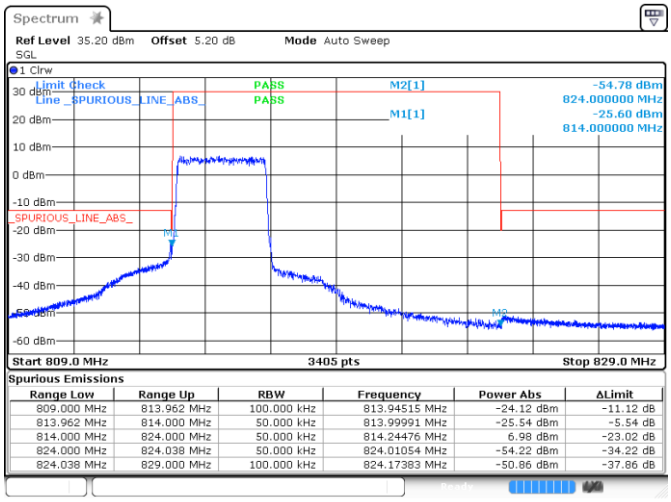


Band26-3MHz-16QAM-26705-15RB#0



Band26-3MHz-16QAM-26775-1RB#14

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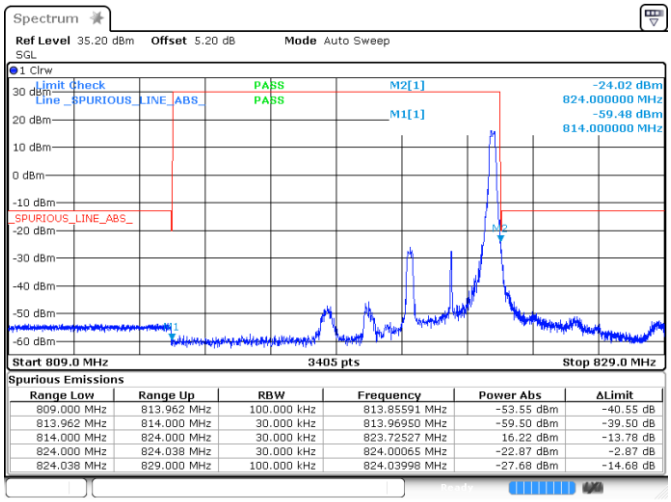
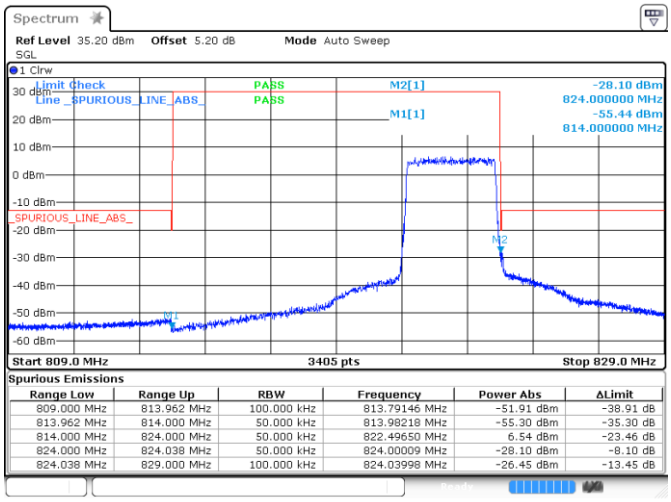


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.85591 MHz	-53.55 dBm	-40.55 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.96950 MHz	-59.50 dBm	-39.50 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.72527 MHz	16.22 dBm	-13.78 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00065 MHz	-22.87 dBm	-2.87 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-27.68 dBm	-14.68 dB

Date: 11.NOV.2019 02:18:59

Band26-3MHz-16QAM-26775-15RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.79146 MHz	-51.91 dBm	-38.91 dB
813.962 MHz	814.000 MHz	50.000 kHz	813.98218 MHz	-55.30 dBm	-35.30 dB
814.000 MHz	824.000 MHz	50.000 kHz	822.49650 MHz	6.54 dBm	-23.46 dB
824.000 MHz	824.038 MHz	50.000 kHz	824.00009 MHz	-28.10 dBm	-8.10 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-26.45 dBm	-13.45 dB

Date: 11.NOV.2019 02:20:16

Band26-5MHz-QPSK-26715-1RB#0

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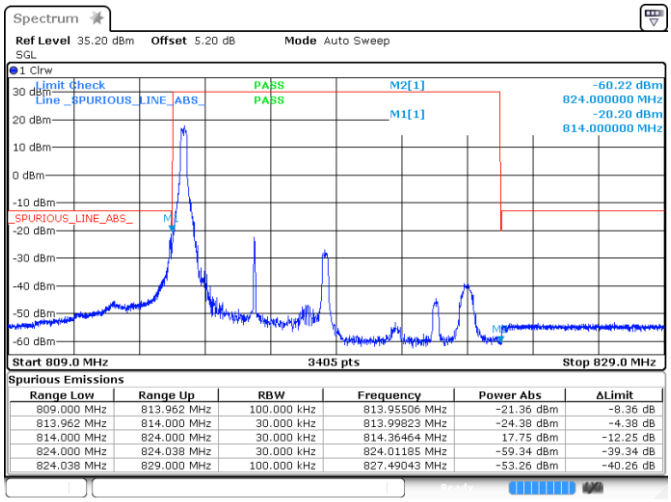
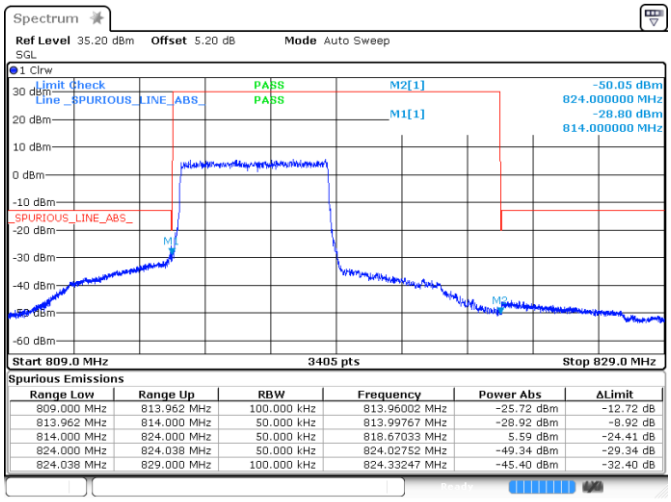


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95506 MHz	-21.36 dBm	-8.36 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99823 MHz	-24.38 dBm	-4.38 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.36464 MHz	17.75 dBm	-12.25 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.01185 MHz	-59.34 dBm	-39.34 dB
824.038 MHz	829.000 MHz	100.000 kHz	827.49043 MHz	-53.26 dBm	-40.26 dB

Date: 11.NOV.2019 02:23:47

Band26-5MHz-QPSK-26715-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.96002 MHz	-25.72 dBm	-12.72 dB
813.962 MHz	814.000 MHz	50.000 kHz	813.99767 MHz	-28.92 dBm	-8.92 dB
814.000 MHz	824.000 MHz	50.000 kHz	818.67033 MHz	5.59 dBm	-24.41 dB
824.000 MHz	824.038 MHz	50.000 kHz	824.02752 MHz	-49.34 dBm	-29.34 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.33247 MHz	-45.40 dBm	-32.40 dB

Date: 11.NOV.2019 02:26:57

Band26-5MHz-QPSK-26765-1RB#24

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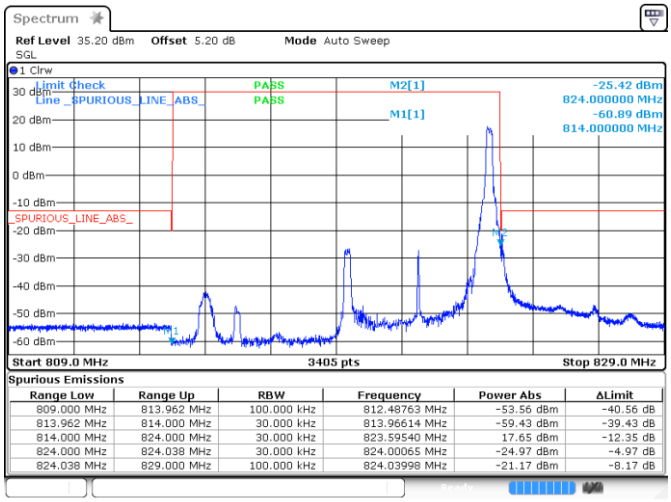
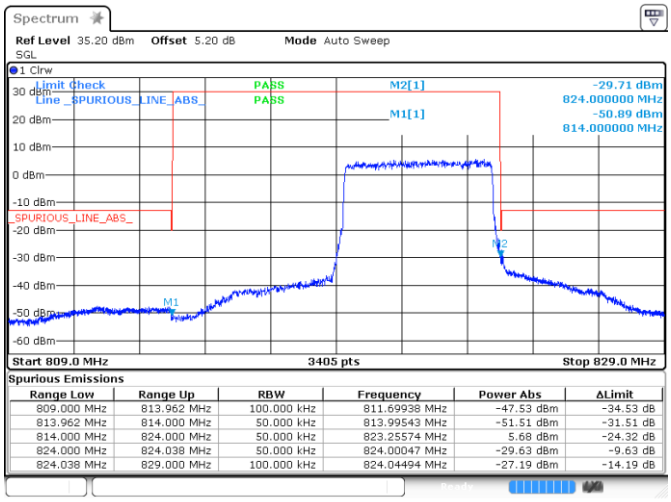


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	812.48763 MHz	-53.56 dBm	-40.56 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.96614 MHz	-59.43 dBm	-39.43 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.59540 MHz	17.65 dBm	-12.35 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00065 MHz	-24.97 dBm	-4.97 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-21.17 dBm	-8.17 dB

Date: 11.NOV.2019 02:24:55

Band26-5MHz-QPSK-26765-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	811.69938 MHz	-47.53 dBm	-34.53 dB
813.962 MHz	814.000 MHz	50.000 kHz	813.99543 MHz	-51.51 dBm	-31.51 dB
814.000 MHz	824.000 MHz	50.000 kHz	823.25574 MHz	5.68 dBm	-24.32 dB
824.000 MHz	824.038 MHz	50.000 kHz	824.00047 MHz	-29.63 dBm	-9.63 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.04494 MHz	-27.19 dBm	-14.19 dB

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Band26-5MHz-16QAM-26715-1RB#0

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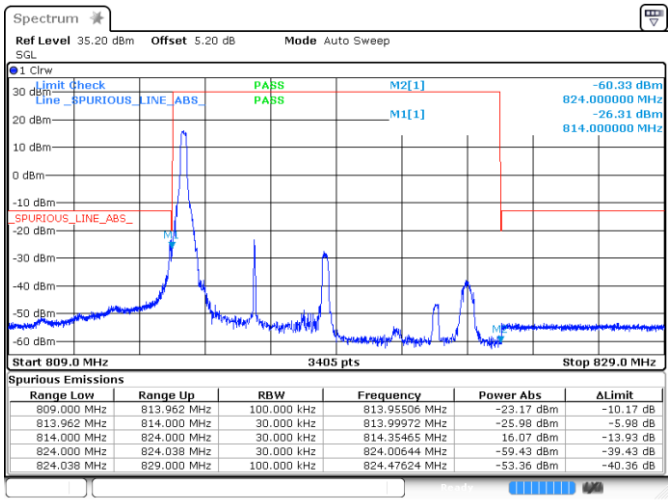
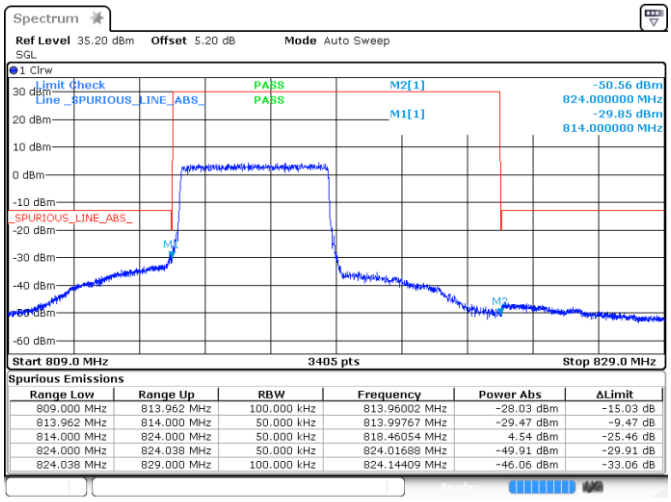


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95506 MHz	-23.17 dBm	-10.17 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99972 MHz	-25.98 dBm	-5.98 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.35465 MHz	16.07 dBm	-13.93 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00644 MHz	-59.43 dBm	-39.43 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.47624 MHz	-53.36 dBm	-40.36 dB

Date: 11.NOV.2019 02:24:05

Band26-5MHz-16QAM-26715-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.96002 MHz	-28.03 dBm	-15.03 dB
813.962 MHz	814.000 MHz	50.000 kHz	813.99767 MHz	-29.47 dBm	-9.47 dB
814.000 MHz	824.000 MHz	50.000 kHz	818.46054 MHz	4.54 dBm	-25.46 dB
824.000 MHz	824.038 MHz	50.000 kHz	824.01688 MHz	-49.91 dBm	-29.91 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.14409 MHz	-46.06 dBm	-33.06 dB

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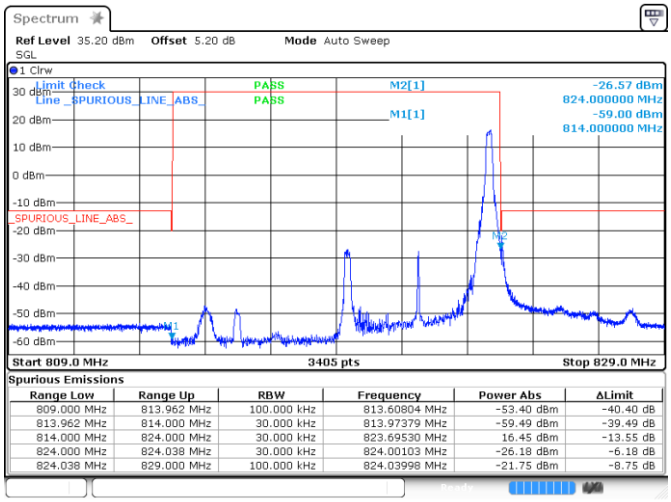
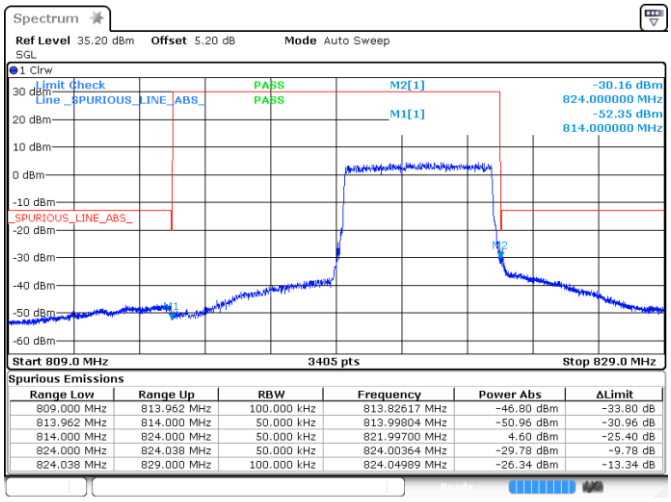


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.60804 MHz	-53.40 dBm	-40.40 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.97379 MHz	-59.49 dBm	-39.49 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.69530 MHz	16.45 dBm	-13.55 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00103 MHz	-26.18 dBm	-6.18 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-21.75 dBm	-8.75 dB

Date: 11.NOV.2019 02:24:39

Band26-5MHz-16QAM-26765-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.82617 MHz	-46.80 dBm	-33.80 dB
813.962 MHz	814.000 MHz	50.000 kHz	813.99804 MHz	-50.96 dBm	-30.96 dB
814.000 MHz	824.000 MHz	50.000 kHz	821.99700 MHz	4.60 dBm	-25.40 dB
824.000 MHz	824.038 MHz	50.000 kHz	824.00364 MHz	-29.78 dBm	-9.78 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.04989 MHz	-26.34 dBm	-13.34 dB

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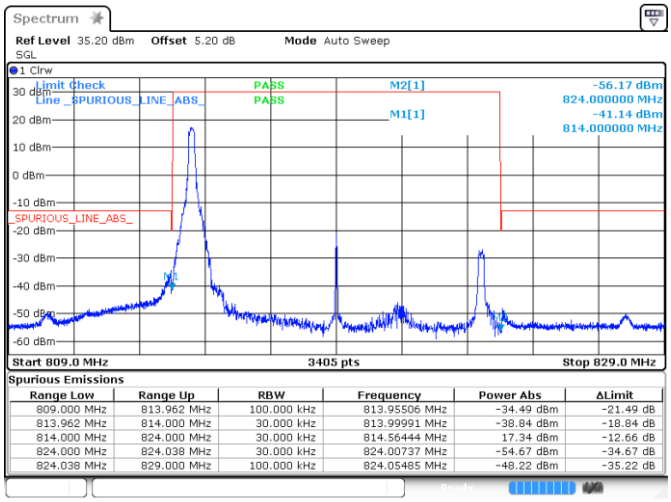
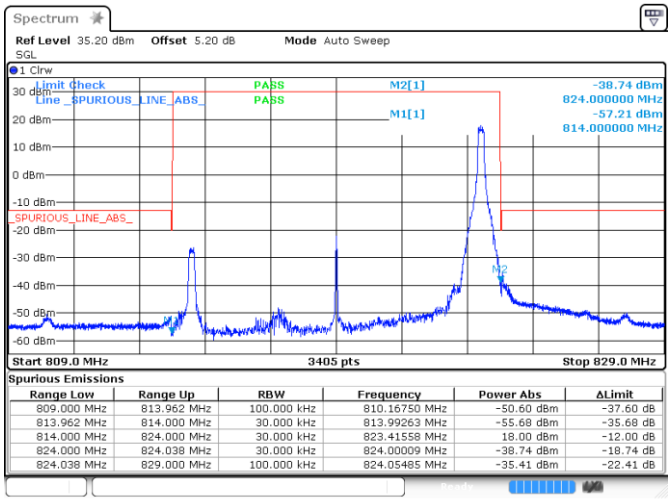


Band26-10MHz-QPSK-26740_Right-1RB#49



Band26-10MHz-QPSK-26740_Right-50RB#0

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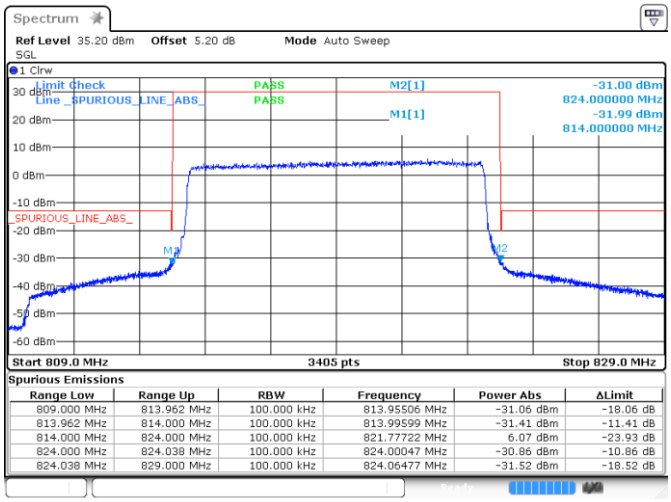

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.95506 MHz	-31.06 dBm	-18.06 dB
813.962 MHz	814.000 MHz	100.000 kHz	813.99599 MHz	-31.41 dBm	-11.41 dB
814.000 MHz	824.000 MHz	100.000 kHz	821.77722 MHz	6.07 dBm	-23.93 dB
824.000 MHz	824.038 MHz	100.000 kHz	824.00047 MHz	-30.86 dBm	-10.86 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.06477 MHz	-31.52 dBm	-18.52 dB

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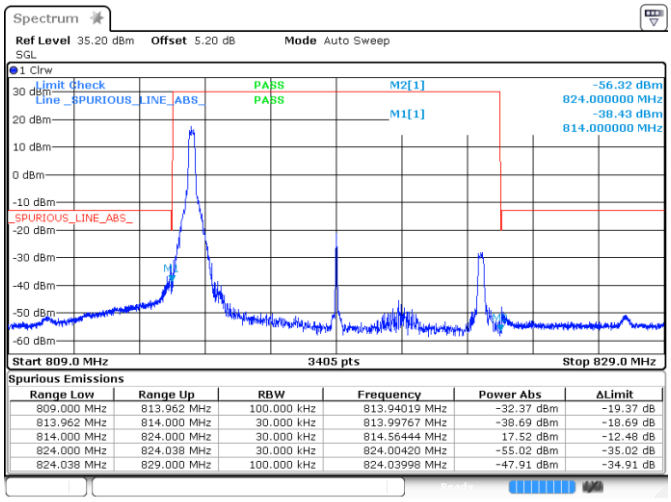
Band26-10MHz-16QAM-26740_Left-1RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.94019 MHz	-32.37 dBm	-19.37 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.99767 MHz	-38.69 dBm	-18.69 dB
814.000 MHz	824.000 MHz	30.000 kHz	814.56444 MHz	17.52 dBm	-12.48 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00420 MHz	-55.02 dBm	-35.02 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.03998 MHz	-47.91 dBm	-34.91 dB

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Band26-10MHz-16QAM-26740_Right-1RB#49

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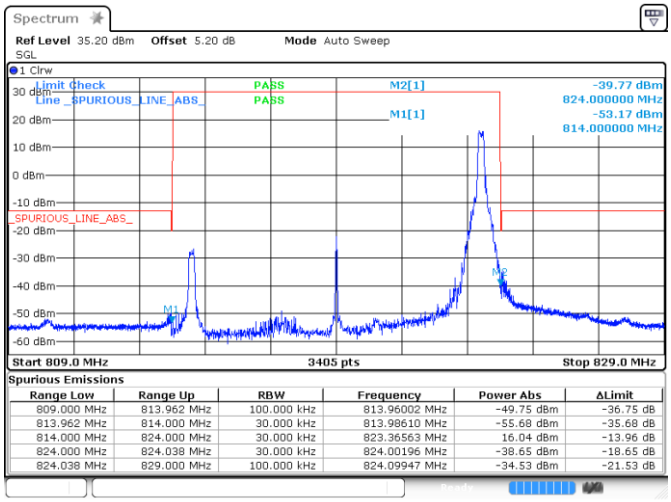
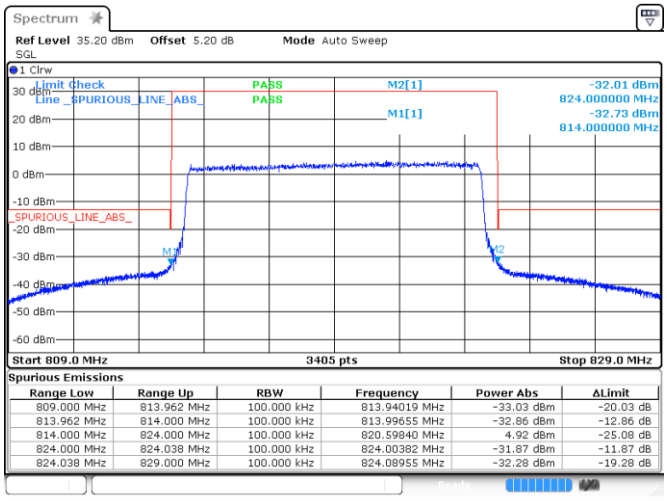


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.96002 MHz	-49.75 dBm	-36.75 dB
813.962 MHz	814.000 MHz	30.000 kHz	813.98610 MHz	-55.68 dBm	-35.68 dB
814.000 MHz	824.000 MHz	30.000 kHz	823.36563 MHz	16.04 dBm	-13.96 dB
824.000 MHz	824.038 MHz	30.000 kHz	824.00196 MHz	-38.65 dBm	-18.65 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.09947 MHz	-34.53 dBm	-21.53 dB

Date: 11.NOV.2019 02:30:10

Band26-10MHz-16QAM-26740_Right-50RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	813.962 MHz	100.000 kHz	813.94019 MHz	-33.03 dBm	-20.03 dB
813.962 MHz	814.000 MHz	100.000 kHz	813.99655 MHz	-32.86 dBm	-12.86 dB
814.000 MHz	824.000 MHz	100.000 kHz	820.59840 MHz	4.92 dBm	-25.08 dB
824.000 MHz	824.038 MHz	100.000 kHz	824.00382 MHz	-31.87 dBm	-11.87 dB
824.038 MHz	829.000 MHz	100.000 kHz	824.08955 MHz	-32.28 dBm	-19.28 dB

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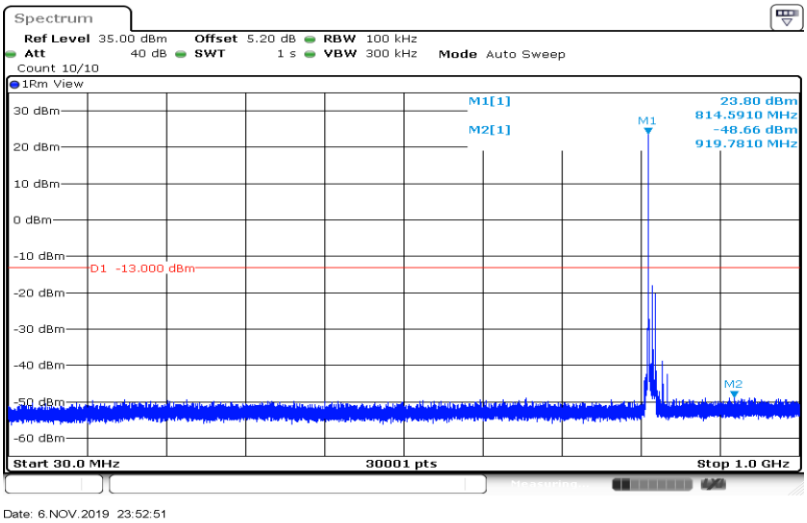
6. Spurious Emission at Antenna Terminal

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.

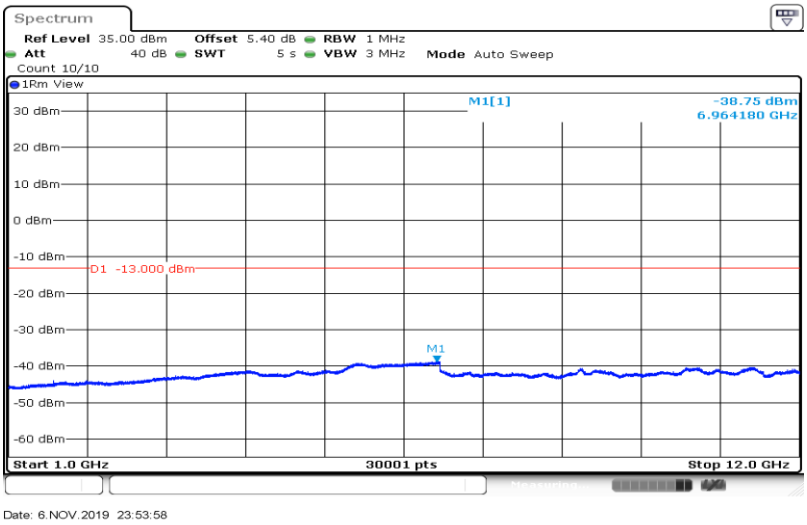
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band26-10MHz-QPSK-26740-1RB#0-Range1:30~1000MHz



Band26-10MHz-QPSK-26740-1RB#0-Range2:1000~12000MHz



Band26-10MHz-16QAM-26740-1RB#0-Range1:30~1000MHz

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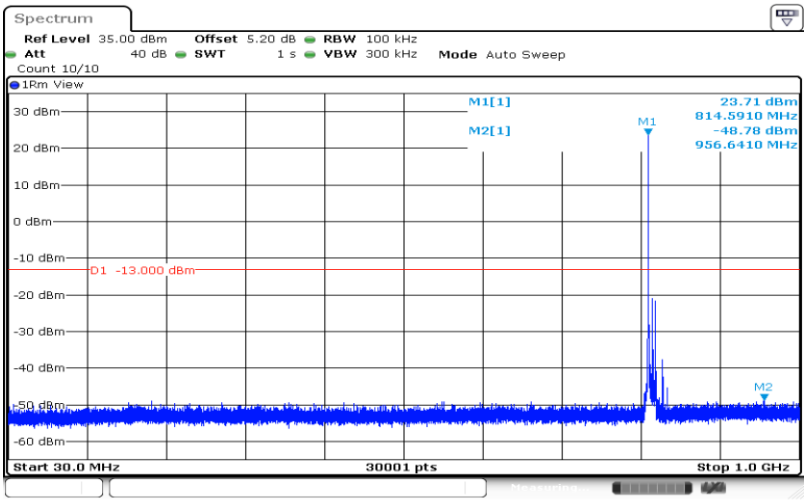
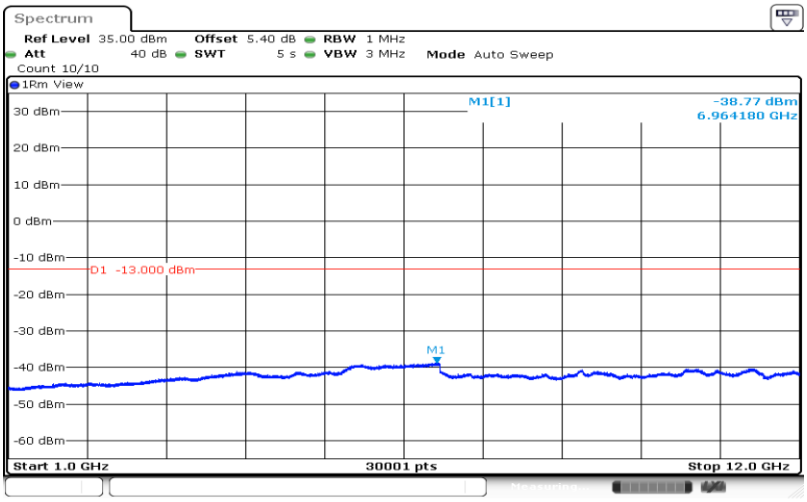


Date: 6.NOV.2019 23:54:15

Band26-10MHz-16QAM-26740-1RB#0-Range2:1000~12000MHz



Date: 6.NOV.2019 23:55:22

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.6958	-70.37	-13.00	57.37	167	339	Vertical
111.6012	-64.21	-13.00	51.21	277	346	Vertical
620.7345	-62.56	-13.00	49.56	147	178	Vertical
1746.6960	-48.96	-13.00	35.96	180	21	Vertical
2455.7955	-28.25	-13.00	15.25	174	343	Vertical
8865.4389	-50.34	-13.00	37.34	279	76	Vertical
44.0602	-62.56	-13.00	49.56	304	58	Horizontal
227.4953	-66.83	-13.00	53.83	311	203	Horizontal
1237.9564	-65.10	-13.00	52.10	222	63	Horizontal
1762.3201	-53.26	-13.00	40.26	217	131	Horizontal
2448.2055	-28.86	-13.00	15.86	292	29	Horizontal
8740.4460	-50.55	-13.00	37.55	229	216	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 displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	0.10	0.000122	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-2.40	-0.002930	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	-0.10	-0.000122	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	-1.60	-0.001954	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-1.40	-0.001709	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-1.90	-0.002320	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-2.80	-0.003419	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-2.30	-0.002808	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-2.50	-0.003053	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-20	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	-1.40	-0.001709	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	-0.40	-0.000488	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	0.20	0.000244	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	-1.40	-0.001709	±2.5	PASS

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