Appendix for test report

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1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
CA_38C	LTE/TM1	15+15	LCH	1 # 0	0 # 0	22.53	23.53	33	PASS
				partial RBs # 0	0 # 0	22.30	23.30	33	PASS
				full RBs # 0	0 # 0	21.07	22.07	33	PASS
				full RBs # 0	full RBs # 0	18.36	19.36	33	PASS
			MCH	1 # 0	0 # 0	22.49	23.49	33	PASS
				partial RBs # 0	0 # 0	22.42	23.42	33	PASS
				full RBs # 0	0 # 0	21.28	22.28	33	PASS
				full RBs # 0	full RBs # 0	18.24	19.24	33	PASS
			HCH	1 # 0	0 # 0	22.54	23.54	33	PASS

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Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				partial RBs # 0	0 # 0	22.63	23.63	33	PASS
				full RBs # 0	0 # 0	21.37	22.37	33	PASS
				full RBs # 0	full RBs # 0	18.61	19.61	33	PASS
		20+20	LCH	1 # 0	0 # 0	22.20	23.20	33	PASS
				partial RBs # 0	0 # 0	22.01	23.01	33	PASS
				full RBs # 0	0 # 0	21.31	22.31	33	PASS
				full RBs # 0	full RBs # 0	18.37	19.37	33	PASS
			MCH	1 # 0	0 # 0	22.07	23.07	33	PASS
				partial RBs # 0	0 # 0	22.09	23.09	33	PASS
				full RBs # 0	0 # 0	21.20	22.20	33	PASS

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Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				full RBs # 0	full RBs # 0	18.34	19.34	33	PASS
			HCH	1 # 0	0 # 0	21.98	22.98	33	PASS
				partial RBs # 0	0 # 0	22.06	23.06	33	PASS
				full RBs # 0	0 # 0	21.46	22.46	33	PASS
				full RBs # 0	full RBs # 0	18.37	19.37	33	PASS
	LTE/TM2	15+15	LCH	1 # 0	0 # 0	21.93	22.93	33	PASS
				partial RBs # 0	0 # 0	21.33	22.33	33	PASS
				full RBs # 0	0 # 0	20.07	21.07	33	PASS
				full RBs # 0	full RBs # 0	17.30	18.30	33	PASS
			MCH	1 # 0	0 # 0	21.97	22.97	33	PASS
				partial	0 # 0	21.54	22.54	33	PASS

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Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RBs # 0					
				full RBs # 0	0 # 0	20.24	21.24	33	PASS
				full RBs # 0	full RBs # 0	17.28	18.28	33	PASS
			HCH	1 # 0	0 # 0	21.98	22.98	33	PASS
				partial RBs # 0	0 # 0	21.52	22.52	33	PASS
				full RBs # 0	0 # 0	20.35	21.35	33	PASS
				full RBs # 0	full RBs # 0	17.48	18.48	33	PASS
		20+20	LCH	1 # 0	0 # 0	21.81	22.81	33	PASS
				partial RBs # 0	0 # 0	21.05	22.05	33	PASS
				full RBs # 0	0 # 0	20.18	21.18	33	PASS

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Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				full RBs # 0	full RBs # 0	17.40	18.40	33	PASS
			MCH	1 # 0	0 # 0	21.64	22.64	33	PASS
				partial RBs # 0	0 # 0	21.14	22.14	33	PASS
				full RBs # 0	0 # 0	20.27	21.27	33	PASS
				full RBs # 0	full RBs # 0	17.34	18.34	33	PASS
			HCH	1 # 0	0 # 0	21.60	22.60	33	PASS
				partial RBs # 0	0 # 0	21.27	22.27	33	PASS
				full RBs # 0	0 # 0	20.42	21.42	33	PASS
				full RBs # 0	full RBs # 0	17.65	18.65	33	PASS

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Note1:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b, SGP = Signal Generator Level

Note2:

SET Span = 1.5 * OBW

SET RBW = 1% of the OBW,not to exceed 1MHz

SET VBW >= 3 * RBW

SET Sweep time = auto - couple.

Detector: RMS

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2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
CA_38C	LTE/TM1	15+15	LCH	1 # 0	0 # 0	3.63	13	PASS
				partial RBs # 0	0 # 0	4.59	13	PASS
				full RBs # 0	0 # 0	5.69	13	PASS
				full RBs # 0	full RBs # 0	6.88	13	PASS
			MCH	1 # 0	0 # 0	3.81	13	PASS
				partial RBs # 0	0 # 0	4.78	13	PASS
				full RBs # 0	0 # 0	5.84	13	PASS
				full RBs # 0	full RBs # 0	6.88	13	PASS
			HCH	1 # 0	0 # 0	4.21	13	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				partial RBs # 0	0 # 0	4.87	13	PASS
				full RBs # 0	0 # 0	6.07	13	PASS
				full RBs # 0	full RBs # 0	6.74	13	PASS
		20+20	LCH	1 # 0	0 # 0	4.59	13	PASS
				partial RBs # 0	0 # 0	4.75	13	PASS
				full RBs # 0	0 # 0	5.74	13	PASS
				full RBs # 0	full RBs # 0	6.94	13	PASS
			MCH	1 # 0	0 # 0	4.71	13	PASS
				partial RBs # 0	0 # 0	4.84	13	PASS
				full RBs # 0	0 # 0	6.11	13	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				full RBs # 0	full RBs # 0	7.01	13	PASS
			HCH	1 # 0	0 # 0	4.71	13	PASS
				partial RBs # 0	0 # 0	4.74	13	PASS
				full RBs # 0	0 # 0	5.78	13	PASS
				full RBs # 0	full RBs # 0	6.73	13	PASS
	LTE/TM2	15+15	LCH	1 # 0	0 # 0	4.44	13	PASS
				partial RBs # 0	0 # 0	4.90	13	PASS
				full RBs # 0	0 # 0	6.18	13	PASS
				full RBs # 0	full RBs # 0	7.57	13	PASS
			MCH	1 # 0	0 # 0	4.64	13	PASS
				partial	0 # 0	5.47	13	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				RBs # 0				
				full RBs # 0	0 # 0	6.79	13	PASS
				full RBs # 0	full RBs # 0	7.37	13	PASS
			HCH	1 # 0	0 # 0	5.05	13	PASS
				partial RBs # 0	0 # 0	5.80	13	PASS
				full RBs # 0	0 # 0	6.96	13	PASS
				full RBs # 0	full RBs # 0	7.44	13	PASS
		20+20	LCH	1 # 0	0 # 0	4.69	13	PASS
				partial RBs # 0	0 # 0	5.42	13	PASS
				full RBs # 0	0 # 0	6.52	13	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				full RBs # 0	full RBs # 0	7.22	13	PASS
			MCH	1 # 0	0 # 0	4.40	13	PASS
				partial RBs # 0	0 # 0	5.35	13	PASS
				full RBs # 0	0 # 0	6.50	13	PASS
				full RBs # 0	full RBs # 0	7.52	13	PASS
			HCH	1 # 0	0 # 0	4.81	33	PASS
				partial RBs # 0	0 # 0	5.39	33	PASS
				full RBs # 0	0 # 0	6.78	33	PASS
				full RBs # 0	full RBs # 0	7.74	33	PASS

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3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

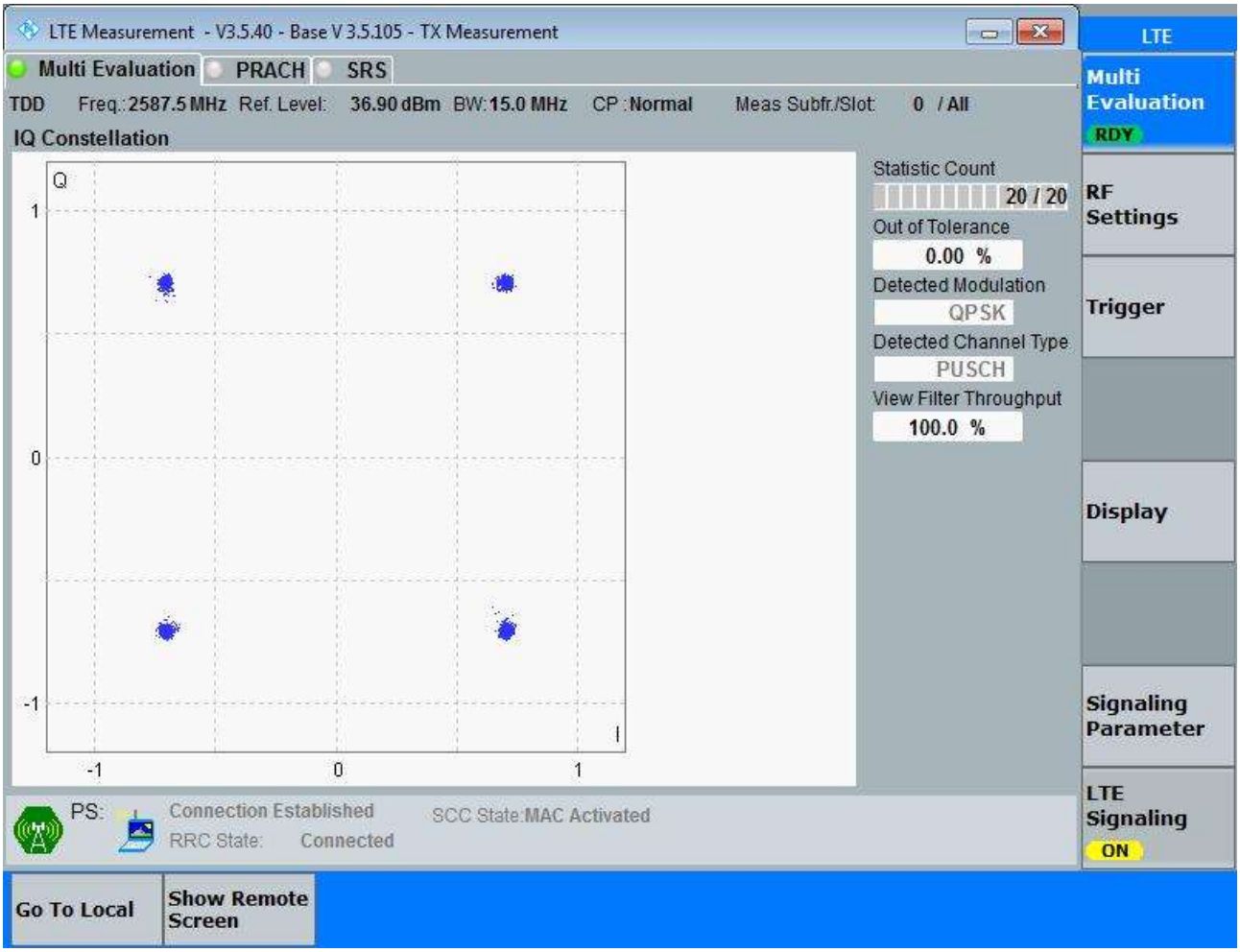
3.1.1 Test Band = CA_38C

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 15+15

3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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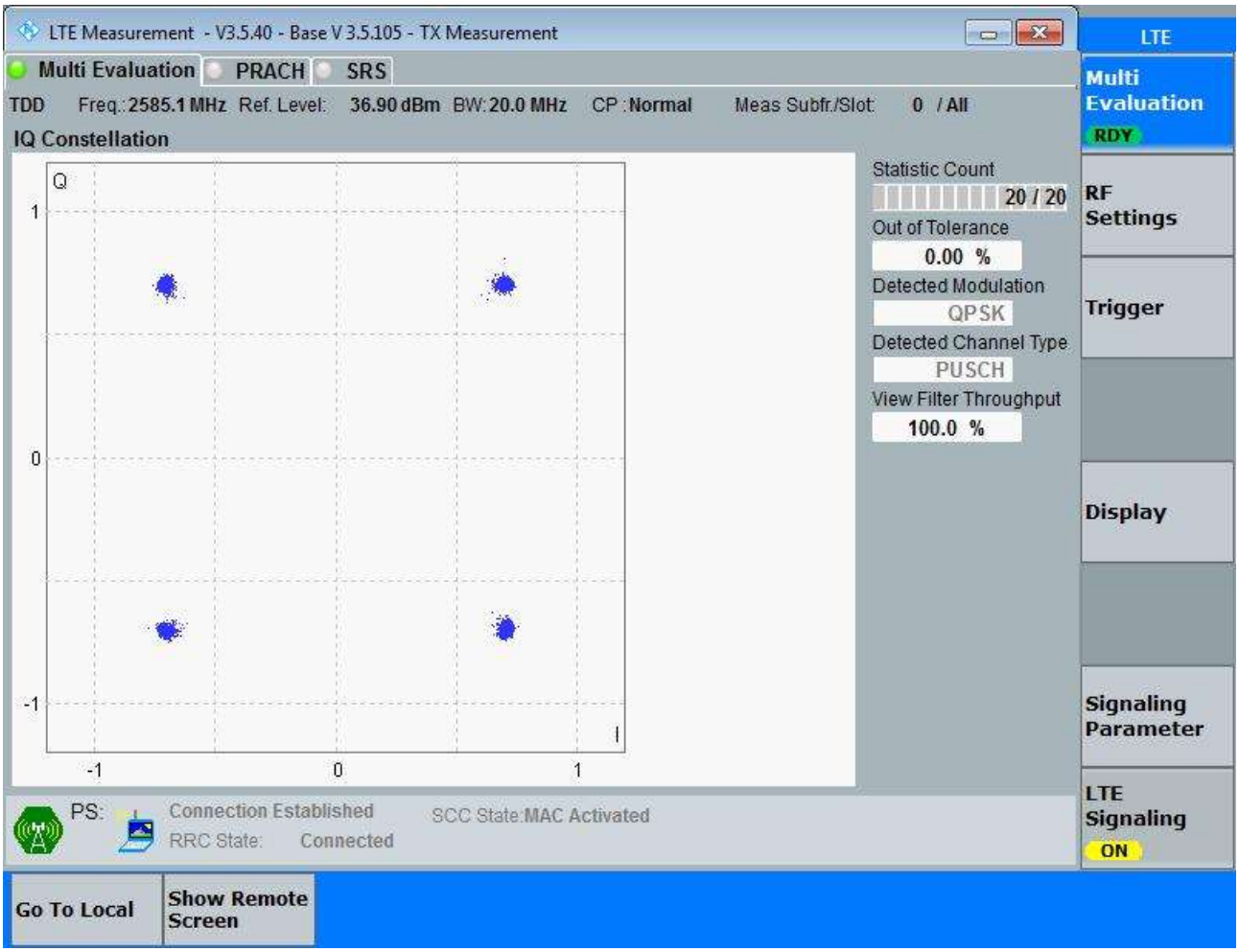
3.1.1.1.2 Test Bandwidth = 20+20

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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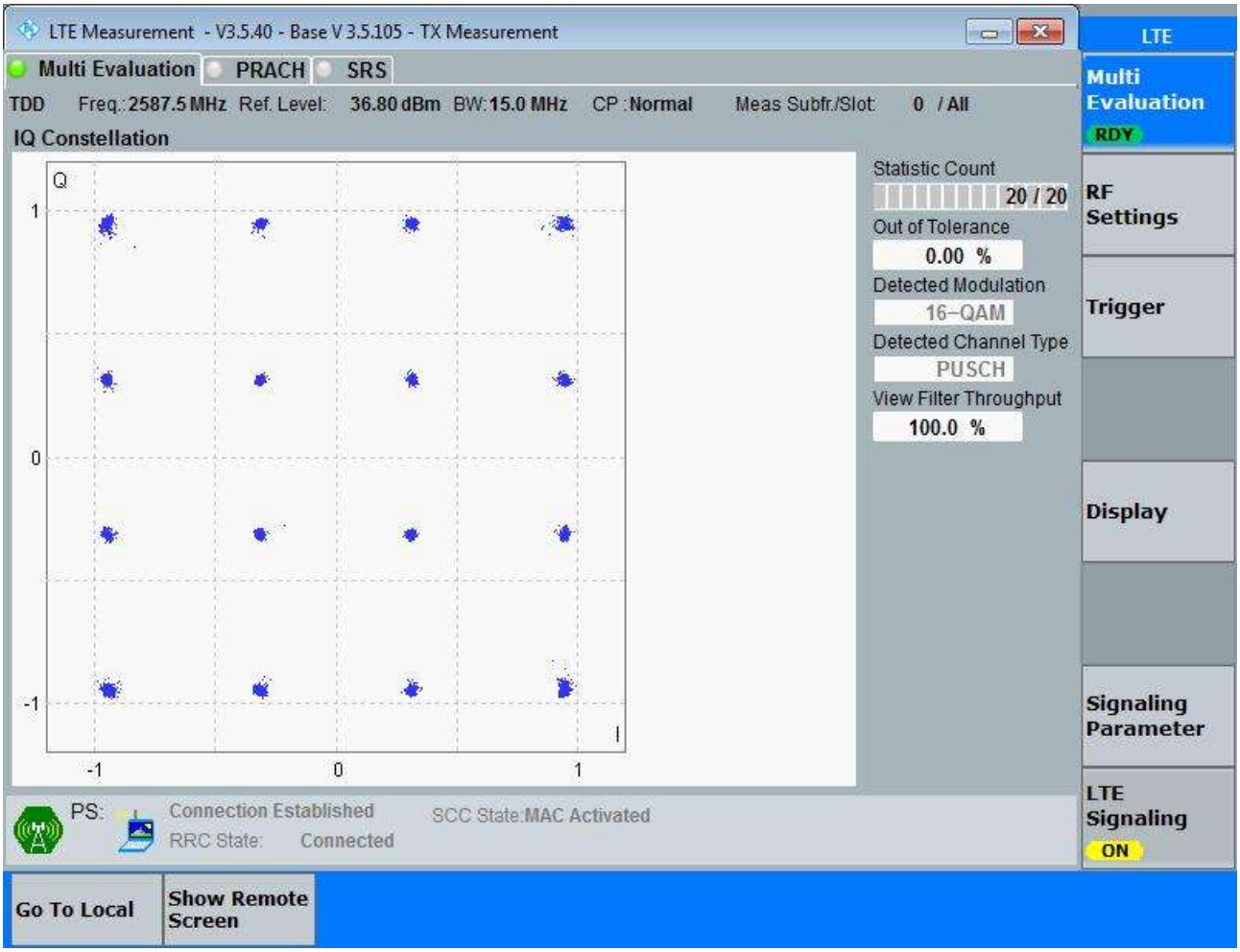
3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 15+15

3.1.1.2.1.1 Test Channel = MCH

3.1.1.2.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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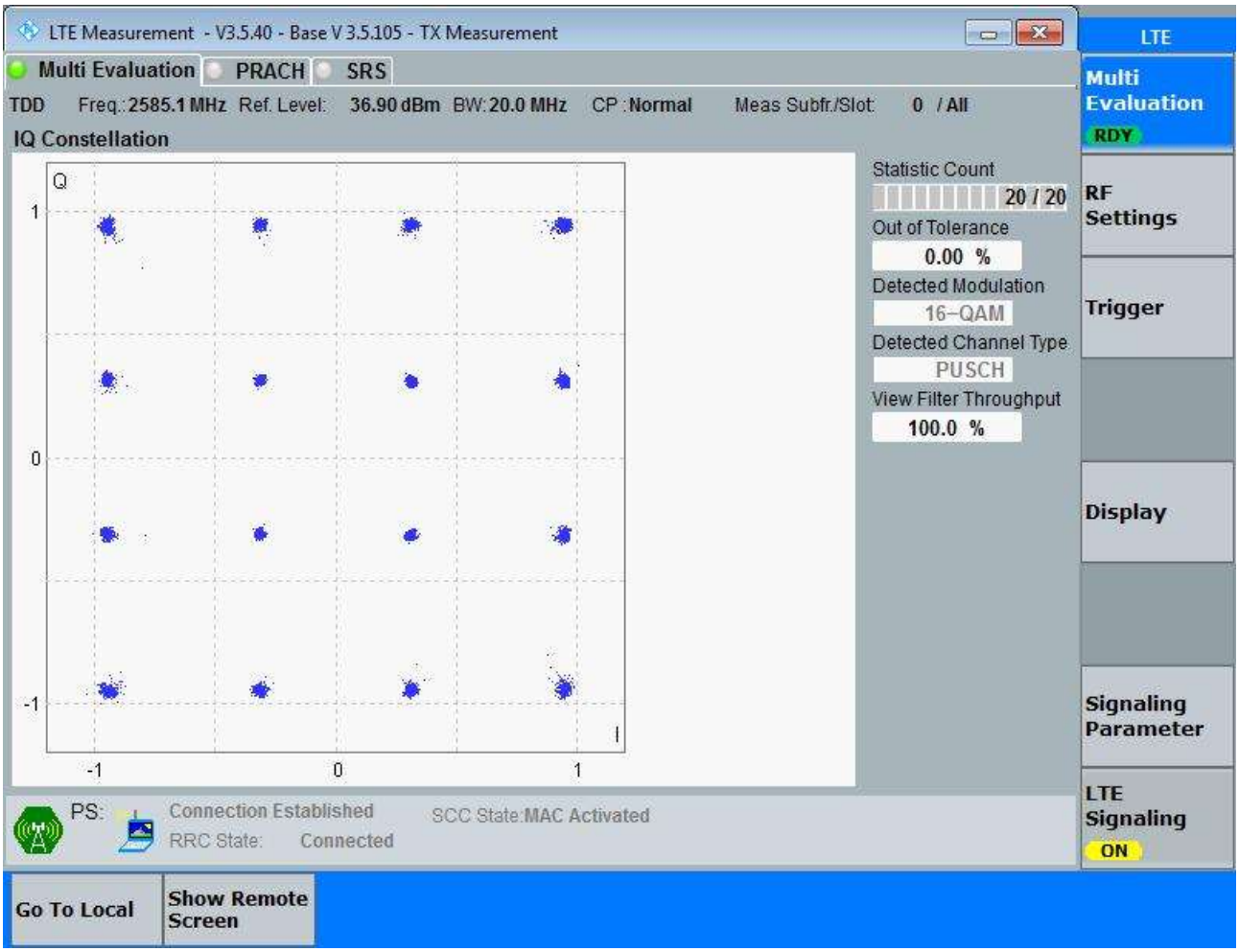
3.1.1.2.2 Test Bandwidth = 20+20

3.1.1.2.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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4Appendix_D: Bandwidth

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CA_38C	LTE/ TM1	15+15	LCH	full RBs # 0	full RBs # 0	29.12	31.58	PASS
			MCH	full RBs # 0	full RBs # 0	28.99	31.27	PASS
			HCH	full RBs # 0	full RBs # 0	28.99	31.16	PASS
		20+20	LCH	full RBs # 0	full RBs # 0	38.63	41.69	PASS
			MCH	full RBs # 0	full RBs # 0	38.60	41.62	PASS
			HCH	full RBs # 0	full RBs # 0	38.56	41.47	PASS
	LTE/ TM2	15+15	LCH	full RBs # 0	full RBs # 0	29.09	31.60	PASS
			MCH	full RBs # 0	full RBs # 0	29.09	31.23	PASS

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Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
			HCH	full RBs # 0	full RBs # 0	28.91	31.21	PASS
		20+20	LCH	full RBs # 0	full RBs # 0	38.57	41.32	PASS
			MCH	full RBs # 0	full RBs # 0	38.55	42.56	PASS
			HCH	full RBs # 0	full RBs # 0	38.59	41.55	PASS

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Part II - Test Plots

4.1 For LTE

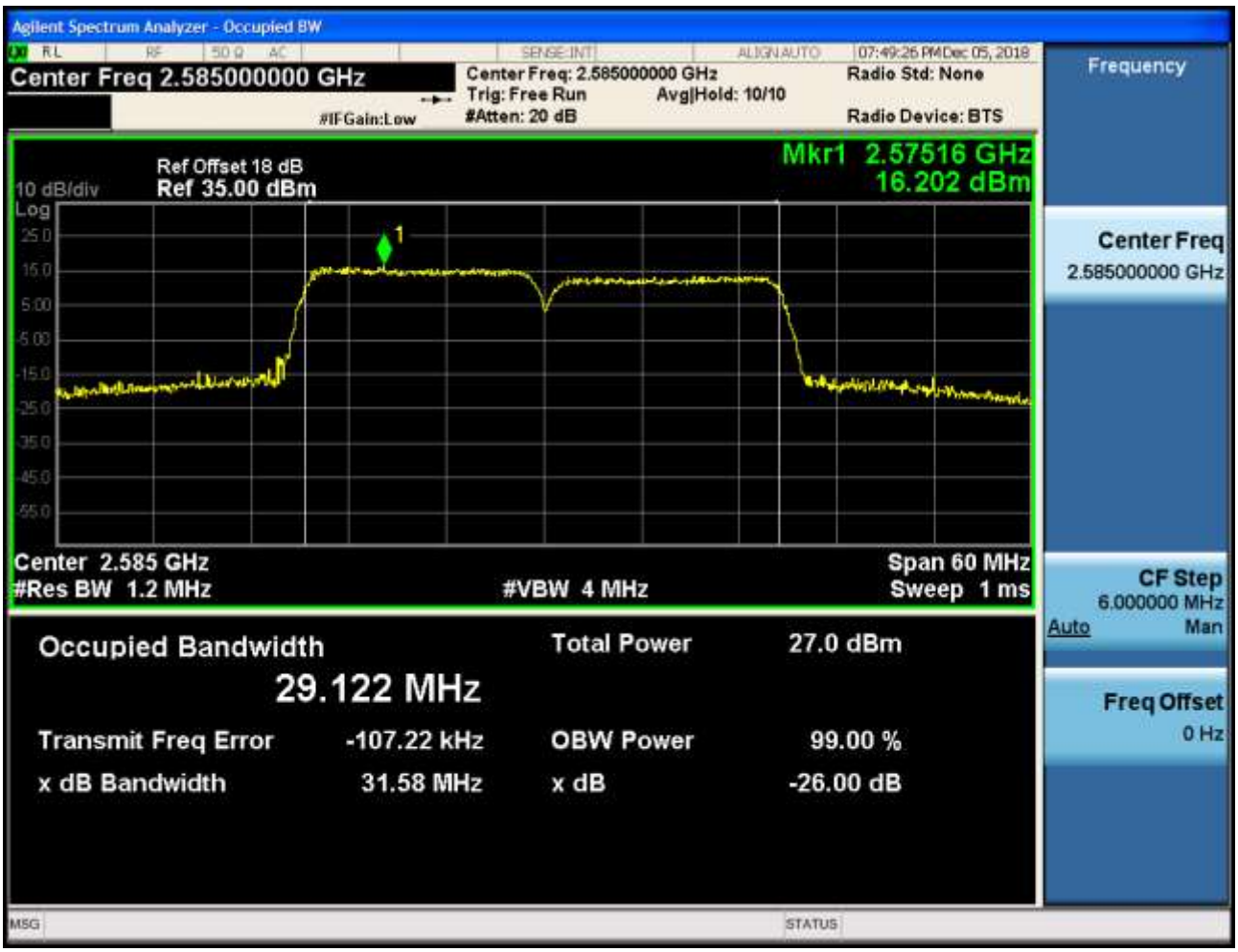
4.1.1 Test Band = CA_38C

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 15+15

4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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4.1.1.1.2 Test Bandwidth = 20+20

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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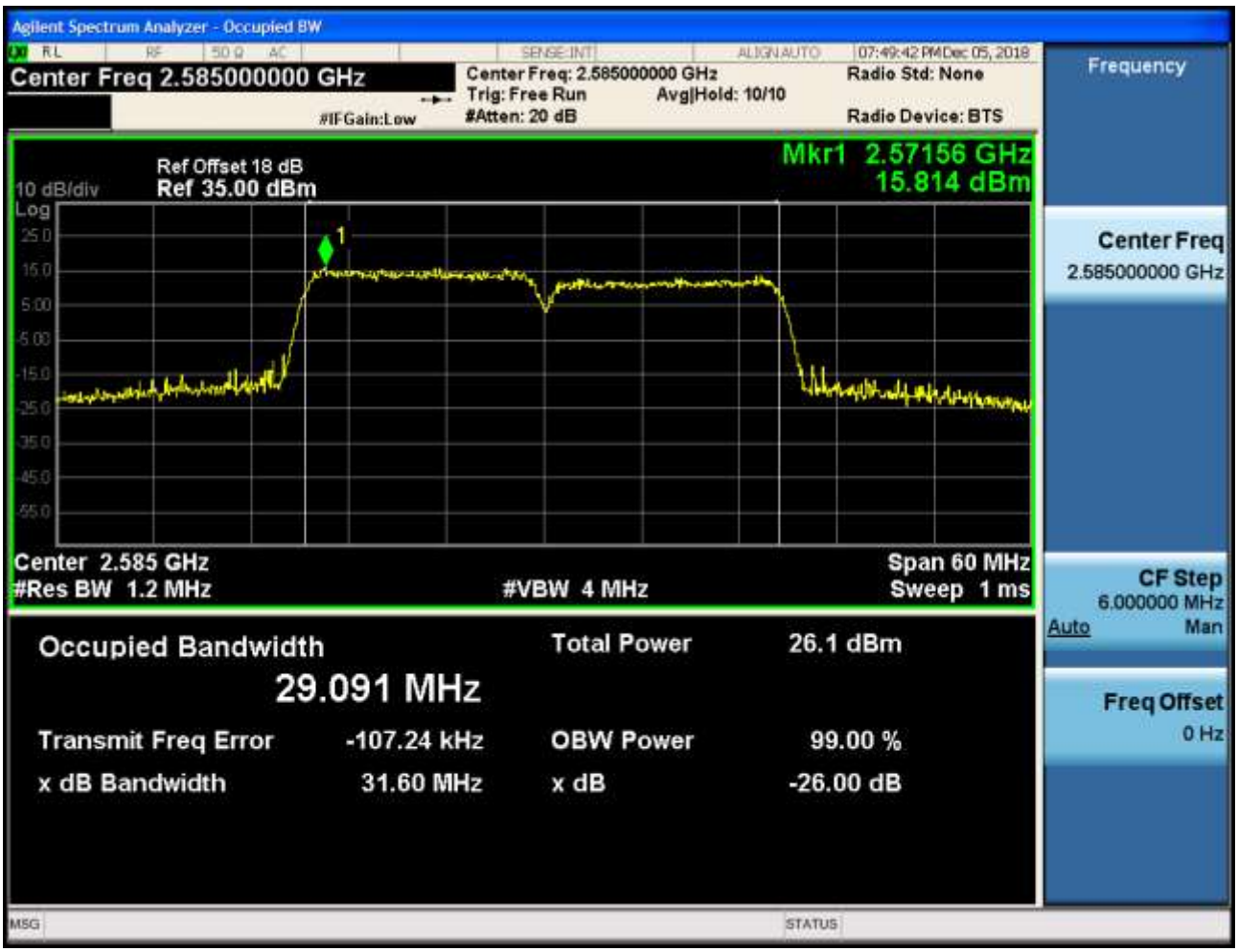
4.1.1.1 Test Mode = LTE/TM2

4.1.1.1.1 Test Bandwidth = 15+15

4.1.1.1.1.1 Test Channel = LCH

####### 4.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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4.1.1.1.2 Test Bandwidth = 20+20

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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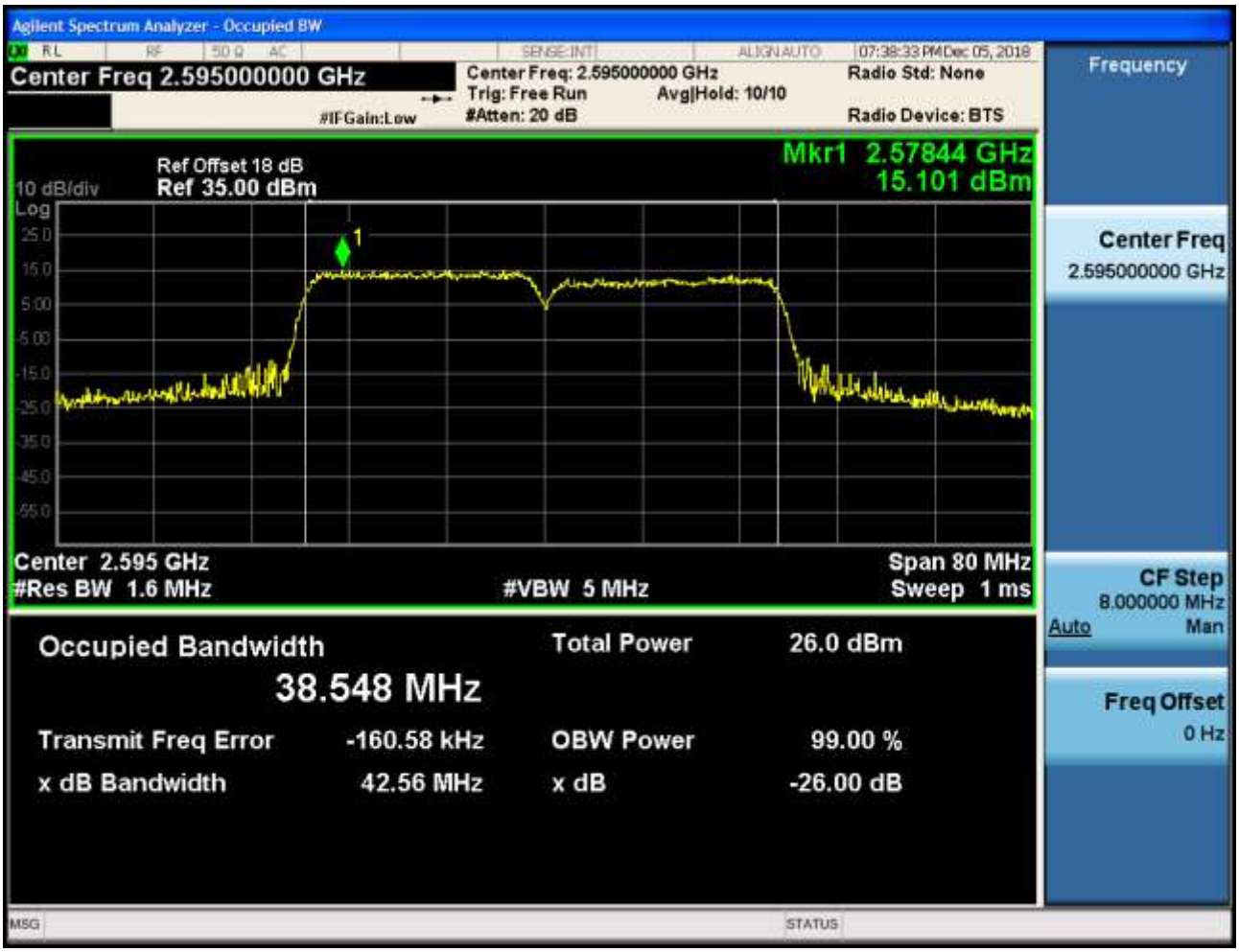
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 PCC Test RB = full RBs & SCC Test RB = full RBs



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4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 PCC Test RB = full RBs & SCC Test RB = full RBs

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5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = CA_38C

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 15+15

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0

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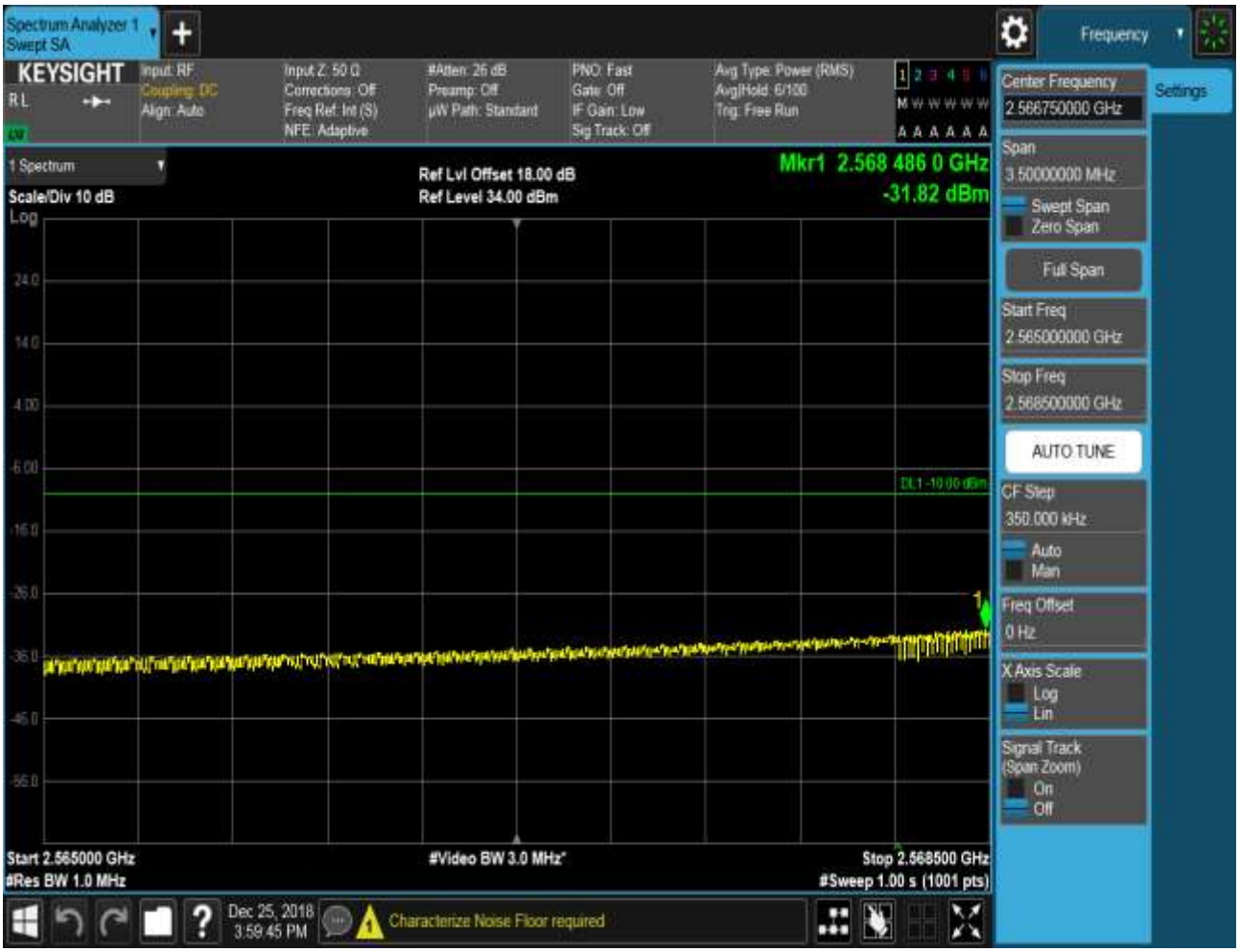

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5.1.1.1.1.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

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5.1.1.1.1.1.3 PCC Test RB = full RBs & SCC Test RB = 0

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5.1.1.1.1.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs

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5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max

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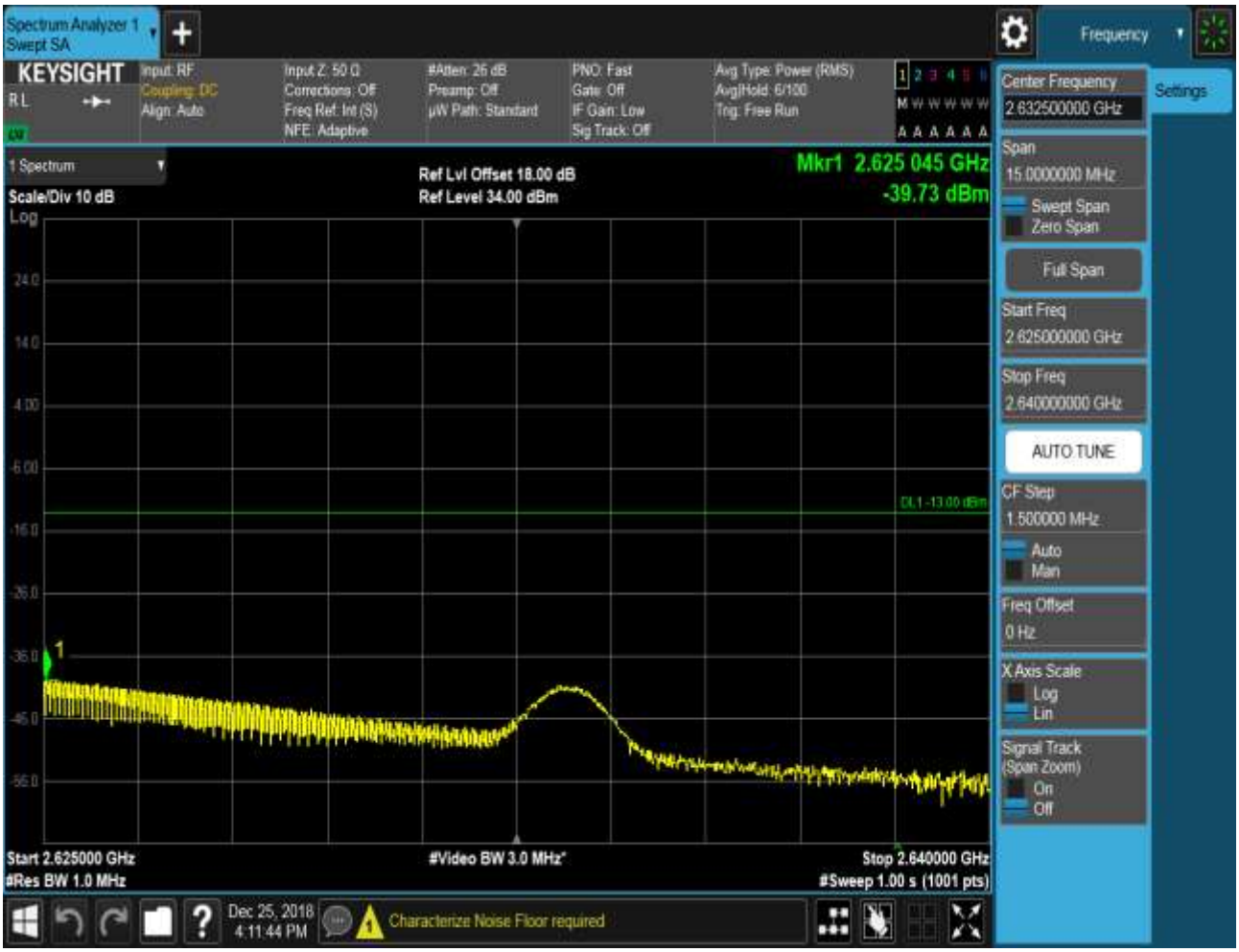

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5.1.1.1.1.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max

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5.1.1.1.1.2.3 PCC Test RB = 0 & SCC Test RB = full RBs

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5.1.1.1.1.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs

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5.1.1.1.2 Test Bandwidth = 20+20

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0

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5.1.1.1.2.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

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5.1.1.1.2.1.3 PCC Test RB = full RBs & SCC Test RB = 0

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5.1.1.1.2.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs

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5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max

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5.1.1.1.2.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max

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5.1.1.1.2.2.3 PCC Test RB = 0 & SCC Test RB = full RBs

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5.1.1.1.2.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs

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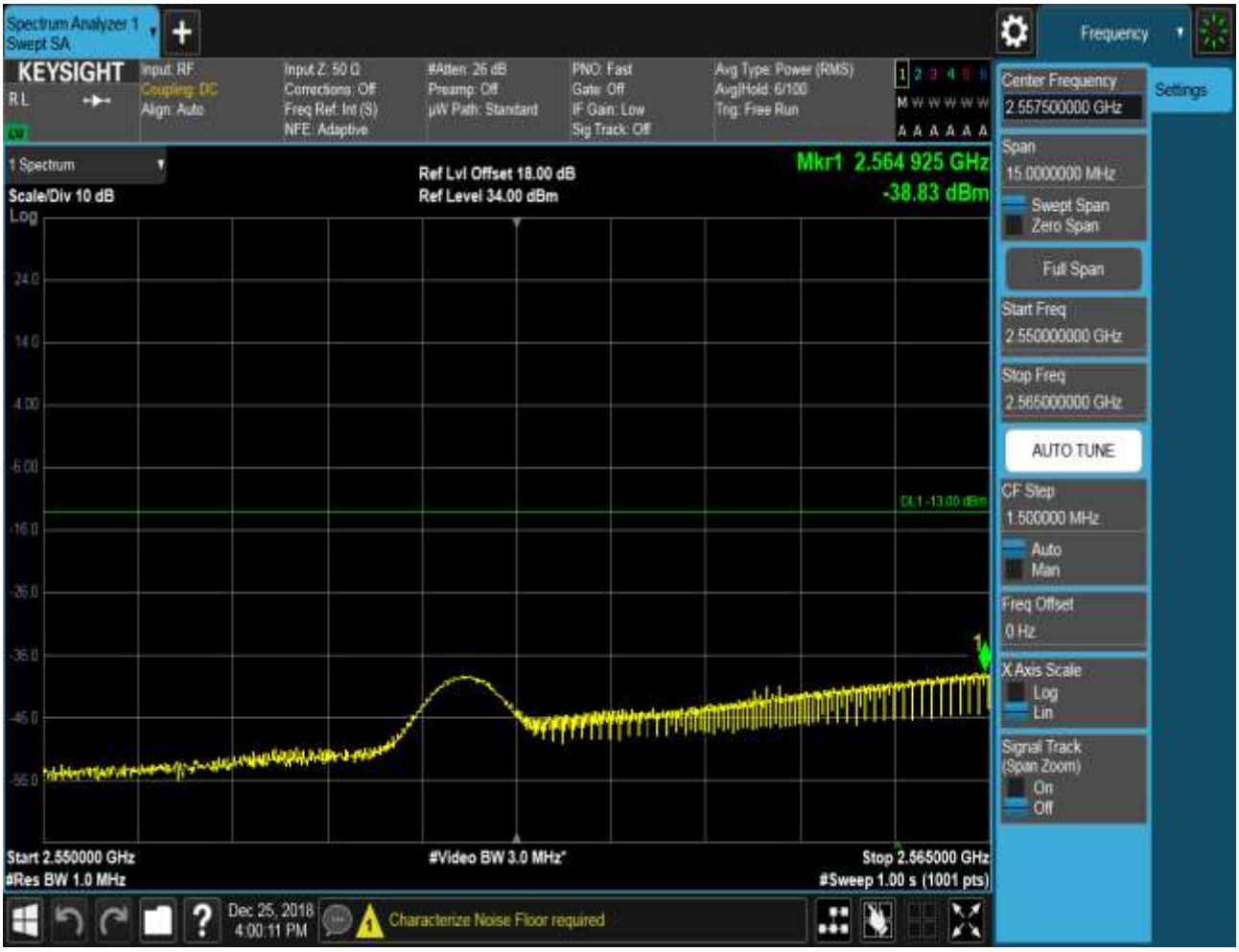
5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 15+15

5.1.1.2.1.1 Test Channel = LCH

####### 5.1.1.2.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0



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5.1.1.2.1.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

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5.1.1.2.1.1.3 PCC Test RB = full RBs & SCC Test RB = 0

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5.1.1.2.1.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs

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5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max

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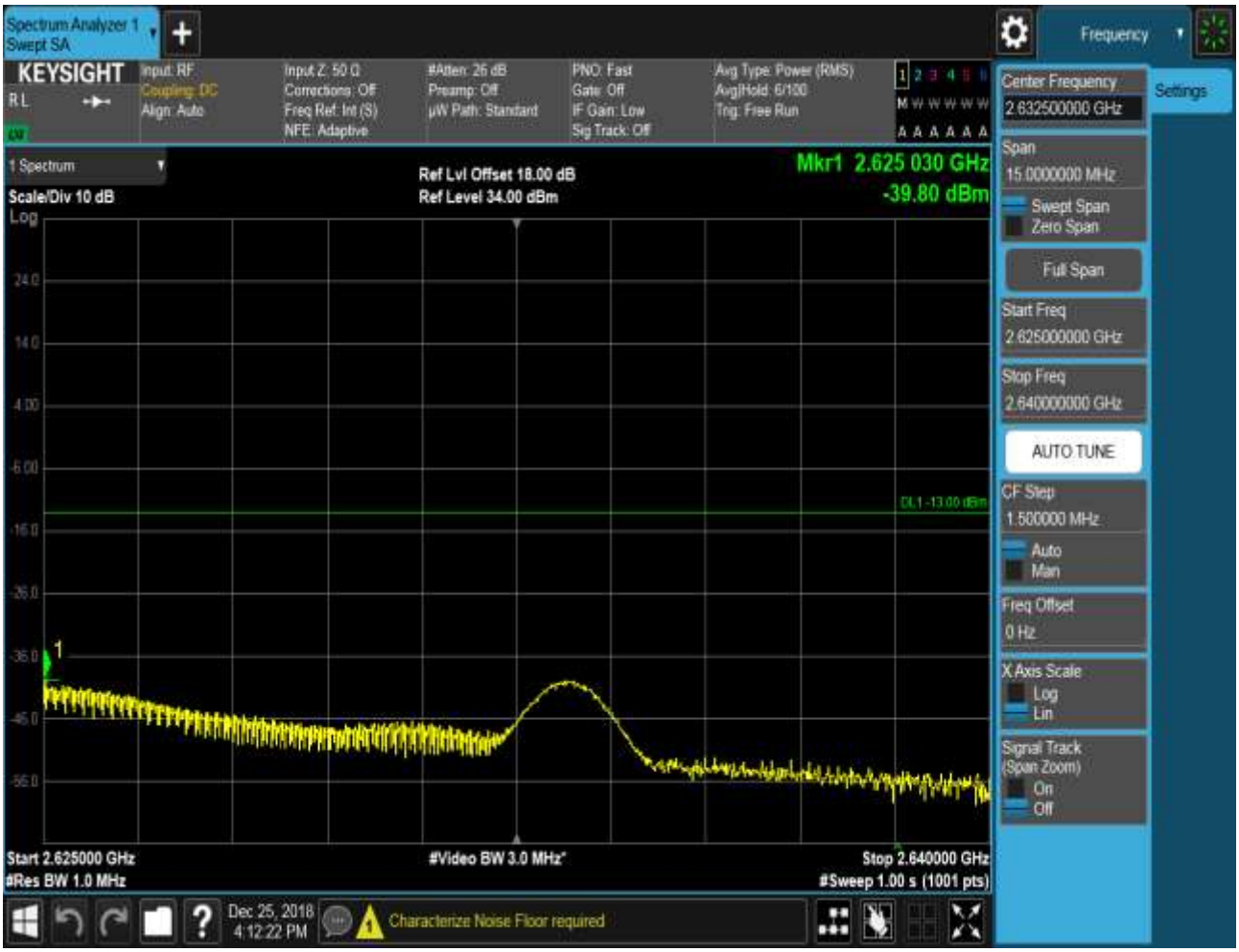

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5.1.1.2.1.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max

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5.1.1.2.1.2.3 PCC Test RB = 0 & SCC Test RB = full RBs

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5.1.1.2.1.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs

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