



Appendix for test report

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/T M1	15MHz +15M Hz	LCH	1 # 0	0 # 0	24.45	24.48	33	PASS
				partial RBs # 0	0 # 0	24.56	24.59	33	PASS
				full RBs # 0	0 # 0	23.53	23.56	33	PASS
				full RBs # 0	full RBs # 0	20.87	20.9	33	PASS
			MCH	1 # 0	0 # 0	24.5	24.53	33	PASS
				partial RBs # 0	0 # 0	24.64	24.67	33	PASS
				full RBs # 0	0 # 0	23.62	23.65	33	PASS
				full RBs # 0	full RBs # 0	20.81	20.84	33	PASS
			HCH	1 # 0	0 # 0	24.52	24.55	33	PASS
				partial RBs # 0	0 # 0	24.59	24.62	33	PASS
				full RBs #	0 # 0	23.44	23.47	33	PASS

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
		20MHz +20M Hz		0					
				full RBs # 0	full RBs # 0	20.79	20.82	33	PASS
			LCH	1 # 0	0 # 0	24.17	24.2	33	PASS
				partial RBs # 0	0 # 0	24.54	24.57	33	PASS
				full RBs # 0	0 # 0	23.44	23.47	33	PASS
				full RBs # 0	full RBs # 0	20.93	20.96	33	PASS
			MCH	1 # 0	0 # 0	24.06	24.09	33	PASS
				partial RBs # 0	0 # 0	24.48	24.51	33	PASS
				full RBs # 0	0 # 0	23.48	23.51	33	PASS
				full RBs # 0	full RBs # 0	20.94	20.97	33	PASS
			HCH	1 # 0	0 # 0	24.40	24.43	33	PASS
				partial RBs # 0	0 # 0	24.55	24.58	33	PASS

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	0 # 0	23.46	23.49	33	PASS
				full RBs # 0	full RBs # 0	20.89	20.92	33	PASS
	LTE/T M2	15MHz +15M Hz	LCH	1 # 0	0 # 0	23.72	23.75	33	PASS
				partial RBs # 0	0 # 0	23.55	23.58	33	PASS
				full RBs # 0	0 # 0	22.44	22.47	33	PASS
				full RBs # 0	full RBs # 0	19.67	19.70	33	PASS
			MCH	1 # 0	0 # 0	23.94	23.97	33	PASS
				partial RBs # 0	0 # 0	23.53	23.56	33	PASS
				full RBs # 0	0 # 0	22.55	22.58	33	PASS
				full RBs # 0	full RBs # 0	19.93	19.96	33	PASS
			HCH	1 # 0	0 # 0	23.97	24.00	33	PASS
				partial	0 # 0	23.48	23.51	33	PASS

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	22.54	22.57	33	PASS
				full RBs # 0	full RBs # 0	19.99	20.02	33	PASS
		20MHz +20M Hz	LCH	1 # 0	0 # 0	23.93	23.96	33	PASS
				partial RBs # 0	0 # 0	23.48	23.51	33	PASS
				full RBs # 0	0 # 0	22.41	22.44	33	PASS
				full RBs # 0	full RBs # 0	19.80	19.83	33	PASS
			MCH	1 # 0	0 # 0	23.72	23.75	33	PASS
				partial RBs # 0	0 # 0	23.54	23.57	33	PASS
				full RBs # 0	0 # 0	22.34	22.37	33	PASS
				full RBs # 0	full RBs # 0	19.91	19.94	33	PASS
			HCH	1 # 0	0 # 0	23.84	23.87	33	PASS

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	23.62	23.65	33	PASS
				full RBs # 0	0 # 0	22.50	22.53	33	PASS
				full RBs # 0	full RBs # 0	19.97	20.00	33	PASS

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,

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

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

b, SGP = Signal Generator Level

Note2:

$$\text{SET Span} = 1.5 * \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

$$\text{SET VBW} \geq 3 * \text{RBW}$$

SET Sweep time = auto - couple.

Detector: RMS

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	15MHz+15MHz	LCH	1 # 0	0 # 0	4.07	13	PASS
				partial RBs # 0	0 # 0	5.05	13	PASS
				full RBs # 0	0 # 0	6.10	13	PASS
				full RBs # 0	full RBs # 0	7.01	13	PASS
			MCH	1 # 0	0 # 0	4.01	13	PASS
				partial RBs # 0	0 # 0	4.67	13	PASS
				full RBs # 0	0 # 0	5.85	13	PASS
				full RBs # 0	full RBs # 0	6.69	13	PASS
			HCH	1 # 0	0 # 0	4.00	13	PASS
				partial RBs # 0	0 # 0	4.63	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				0				
				full RBs # 0	0 # 0	5.73	13	PASS
				full RBs # 0	full RBs # 0	6.63	13	PASS
		20MHz+20MHz	LCH	1 # 0	0 # 0	4.63	13	PASS
				partial RBs # 0	0 # 0	4.76	13	PASS
				full RBs # 0	0 # 0	6.15	13	PASS
				full RBs # 0	full RBs # 0	6.47	13	PASS
			MCH	1 # 0	0 # 0	4.06	13	PASS
				partial RBs # 0	0 # 0	4.53	13	PASS
				full RBs # 0	0 # 0	5.89	13	PASS
				full RBs # 0	full RBs # 0	6.39	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
	LTE/TM2	15MHz+15MHz	HCH	1 # 0	0 # 0	4.41	13	PASS
				partial RBs # 0	0 # 0	4.58	13	PASS
				full RBs # 0	0 # 0	5.61	13	PASS
				full RBs # 0	full RBs # 0	6.61	13	PASS
			LCH	1 # 0	0 # 0	5.01	13	PASS
				partial RBs # 0	0 # 0	5.46	13	PASS
				full RBs # 0	0 # 0	6.71	13	PASS
				full RBs # 0	full RBs # 0	7.33	13	PASS
			MCH	1 # 0	0 # 0	4.89	13	PASS
				partial RBs # 0	0 # 0	5.51	13	PASS
				full RBs # 0	0 # 0	6.66	13	PASS

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	7.39	13	PASS
			HCH	1 # 0	0 # 0	4.60	13	PASS
				partial RBs # 0	0 # 0	5.22	13	PASS
				full RBs # 0	0 # 0	6.70	13	PASS
				full RBs # 0	full RBs # 0	7.16	13	PASS
		20MHz+20MHz	LCH	1 # 0	0 # 0	4.65	13	PASS
				partial RBs # 0	0 # 0	5.56	13	PASS
				full RBs # 0	0 # 0	6.66	13	PASS
				full RBs # 0	full RBs # 0	7.25	13	PASS
			MCH	1 # 0	0 # 0	4.74	13	PASS
				partial RBs # 0	0 # 0	5.59	13	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	PCC Test RB	SCC Test RB	Measured[dBm]	Limit [dBm]	Verdict
				full RBs # 0	0 # 0	5.91	13	PASS
				full RBs # 0	full RBs # 0	7.07	13	PASS
			HCH	1 # 0	0 # 0	4.53	13	PASS
				partial RBs # 0	0 # 0	5.10	13	PASS
				full RBs # 0	0 # 0	5.96	13	PASS
				full RBs # 0	full RBs # 0	7.12	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

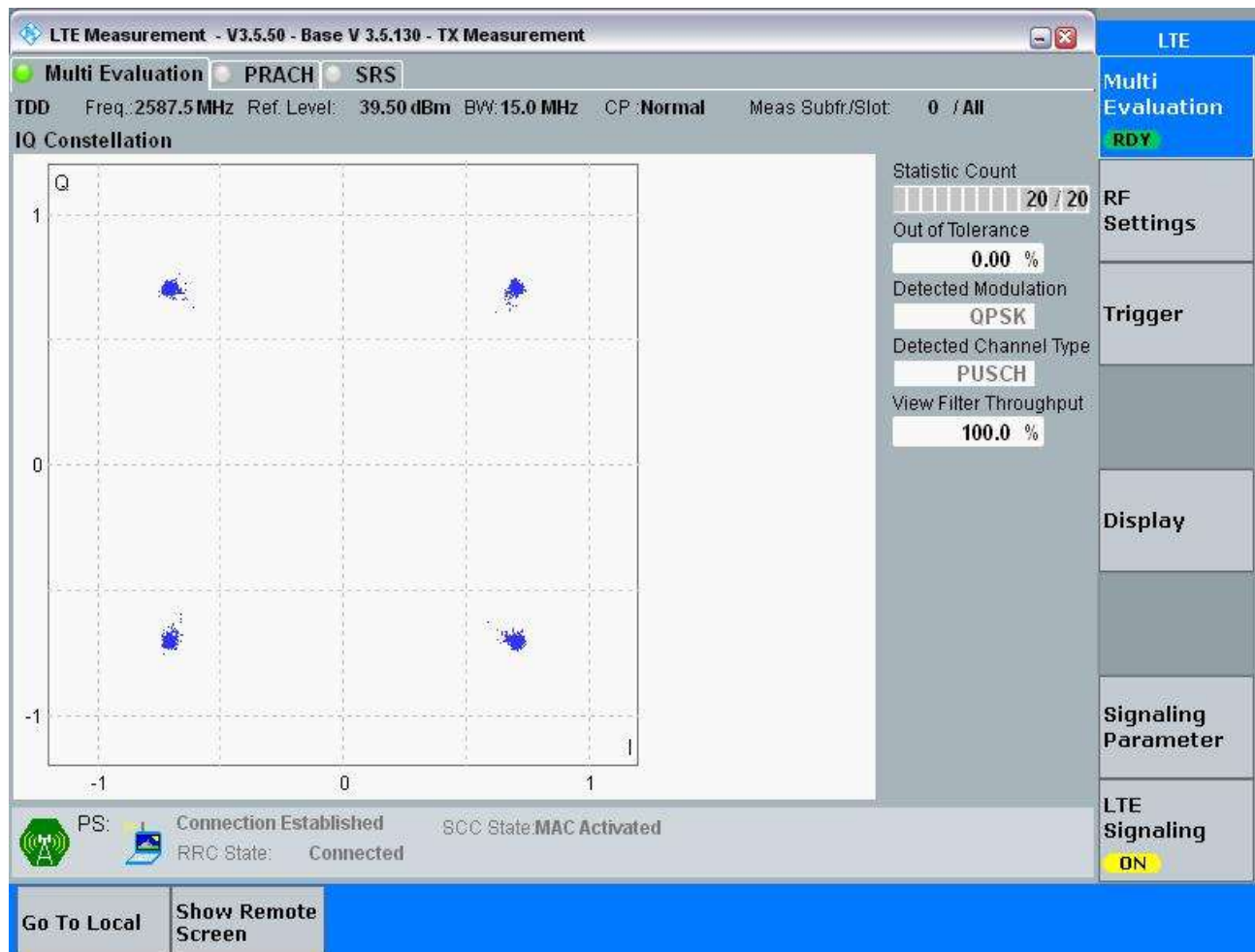
3.1.1 Test Band = CA_38C

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 15MHz+15MHz

3.1.1.1.1.1 Test Channel = MCH

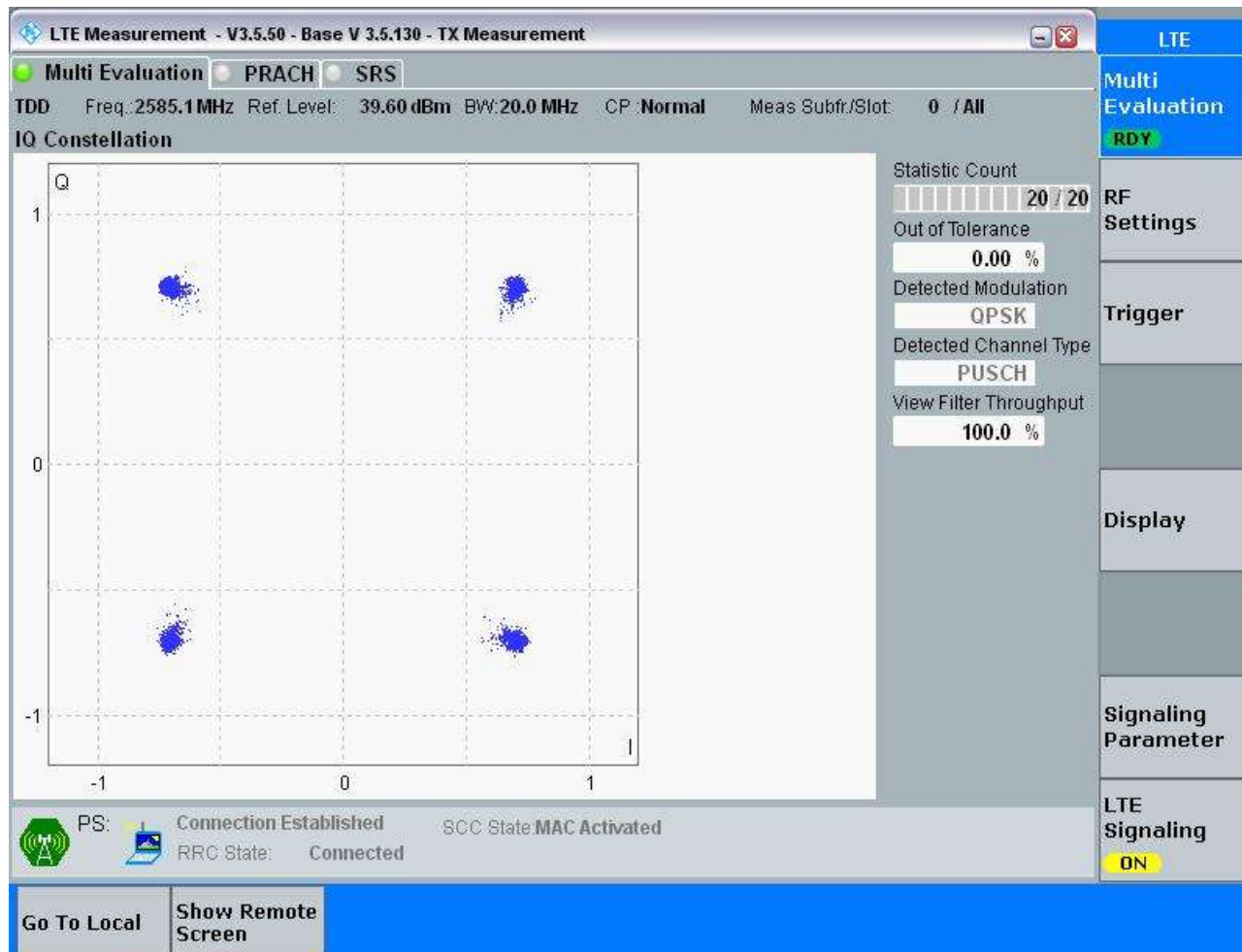
3.1.1.1.1.1.1 PCC Test RB = full RBs & SCC Test RB = full RBs



3.1.1.1.2 Test Bandwidth = 20MHz+20MHz

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

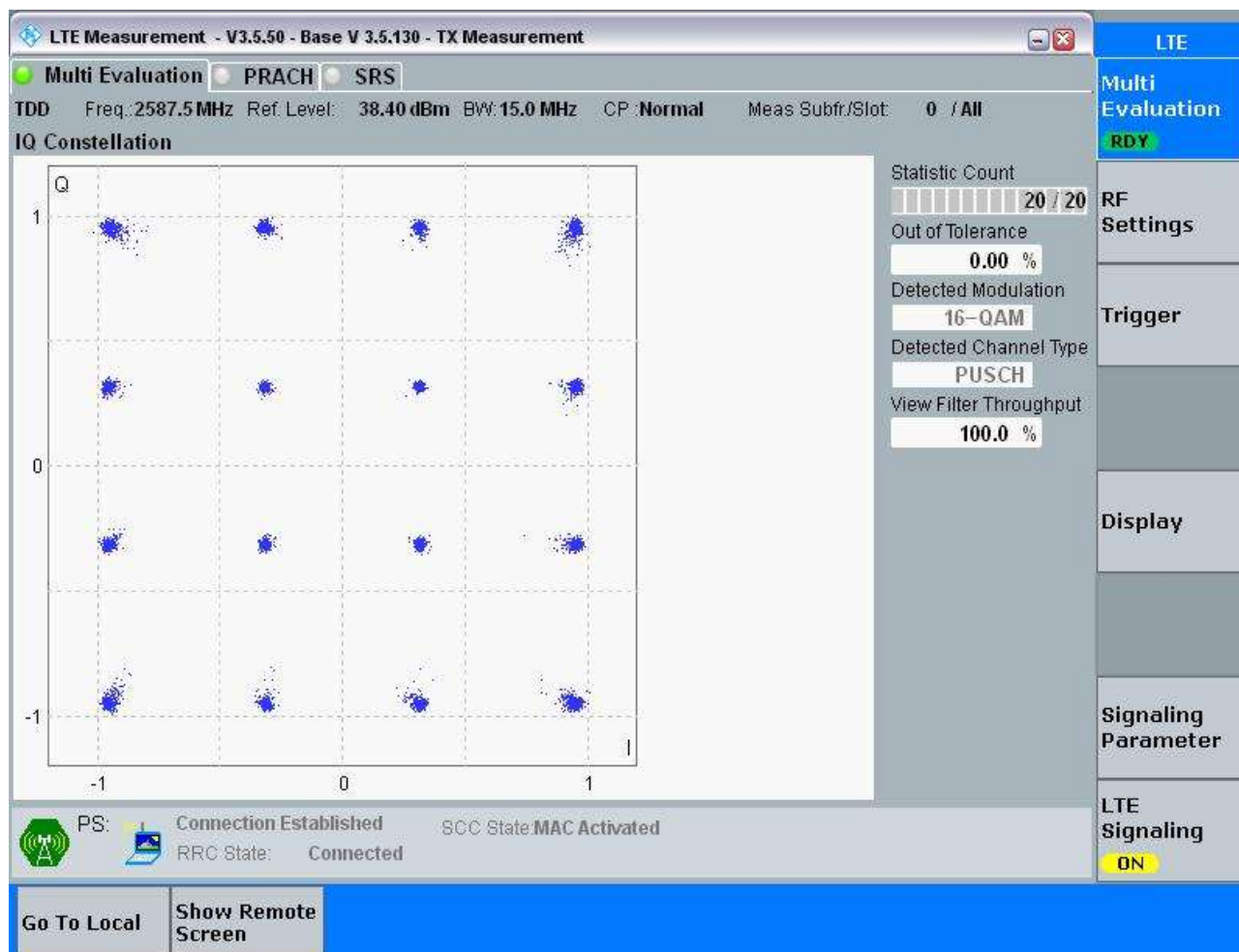


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 15MHz+15MHz

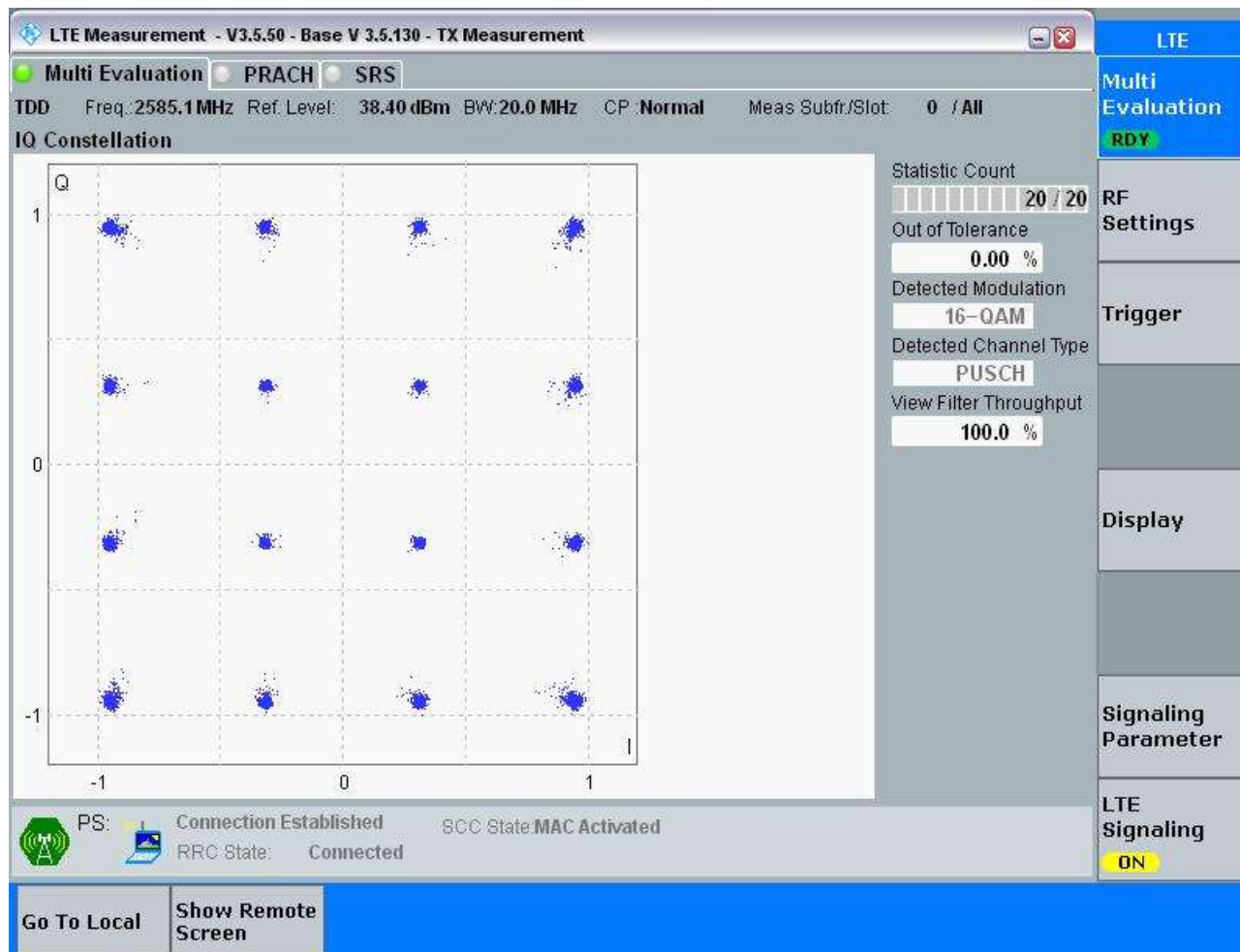
3.1.1.2.1.1 Test Channel = MCH

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



3.1.1.2.2 Test Bandwidth = 20MHz+20MHz

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



4Appendix_D: Bandwidth

Part I - Test Results

Test Band(LTE)	Test Mode	Test Band width	Test Chann el	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CA_38C	LTE/ TM1	15MHz +15M Hz	LCH	full RBs # 0	full RBs # 0	28.97	31.30	PASS
			MCH	full RBs # 0	full RBs # 0	29.07	31.31	PASS
			HCH	full RBs # 0	full RBs # 0	28.95	31.19	PASS
		20MHz +20M Hz	LCH	full RBs # 0	full RBs # 0	38.48	41.51	PASS
			MCH	full RBs # 0	full RBs # 0	38.54	41.45	PASS
			HCH	full RBs # 0	full RBs # 0	38.52	41.32	PASS
	LTE/ TM2	15MHz +15M Hz	LCH	full RBs # 0	full RBs # 0	28.92	31.14	PASS
			MCH	full RBs # 0	full RBs # 0	29.07	31.26	PASS

Test Band(LTE)	Test Mode	Test Band width	Test Channel	PCC Test RB	SCC Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		20MHz +20MHz	HCH	full RBs # 0	full RBs # 0	29.04	31.54	PASS
			LCH	full RBs # 0	full RBs # 0	38.51	41.43	PASS
			MCH	full RBs # 0	full RBs # 0	38.50	41.32	PASS
			HCH	full RBs # 0	full RBs # 0	38.57	41.92	PASS

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 = 15MHz+15MHz

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



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



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



4.1.1.1.2 Test Bandwidth = 20MHz+20MHz

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



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



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

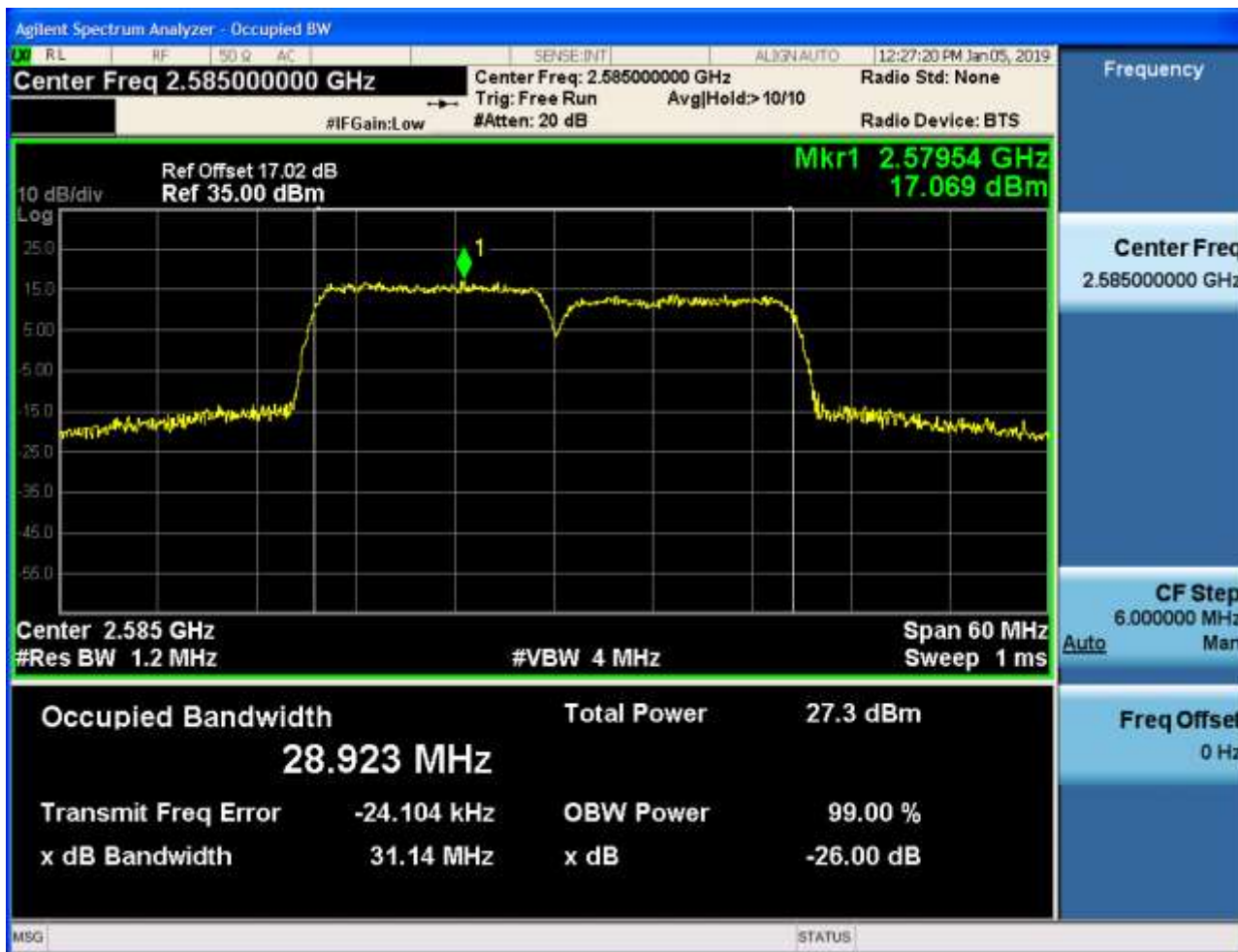


4.1.1.1 Test Mode = LTE/TM2

4.1.1.1.1 Test Bandwidth = 15MHz+15MHz

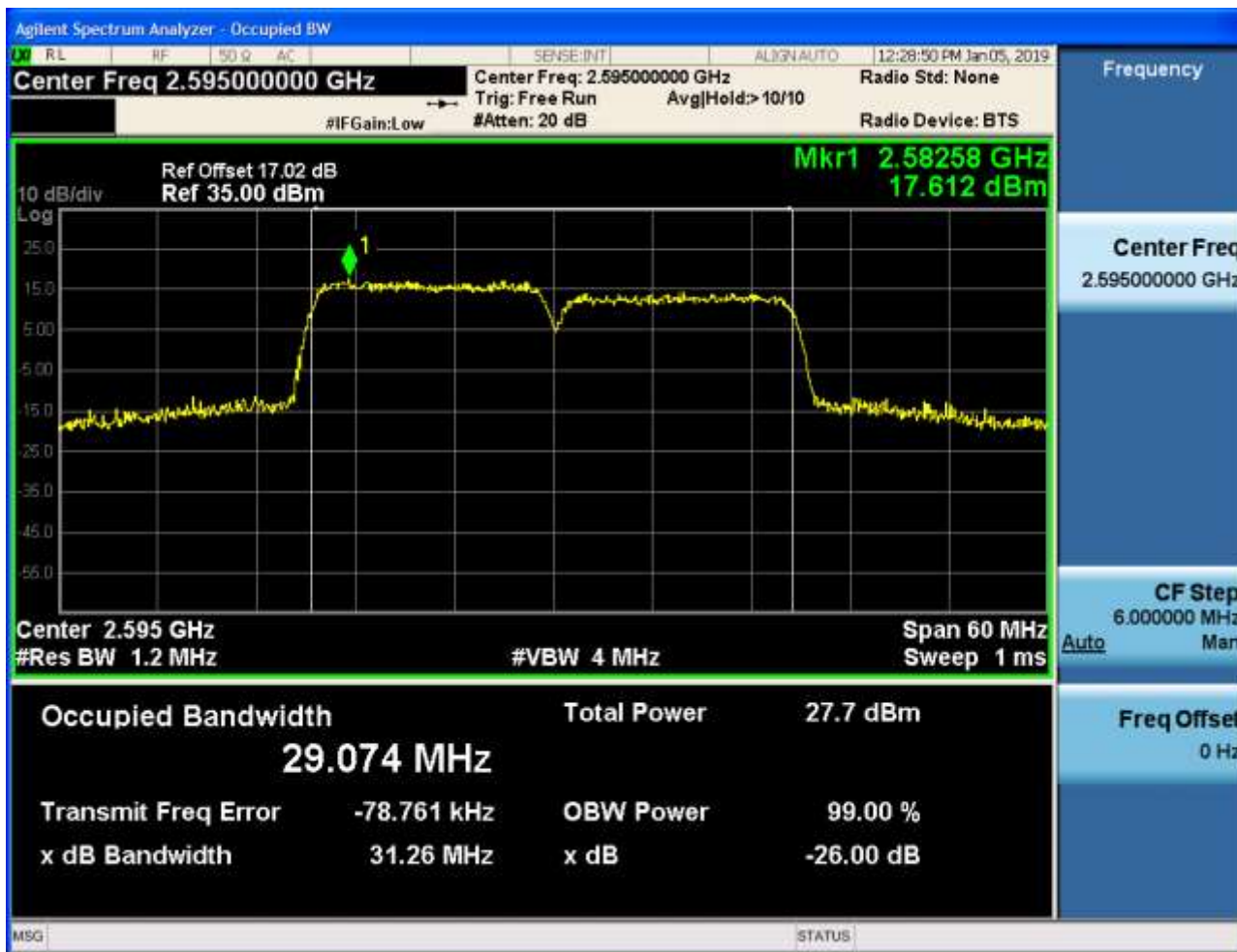
4.1.1.1.1.1 Test Channel = LCH

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



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



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



4.1.1.1.2 Test Bandwidth = 20MHz+20MHz

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



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



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



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

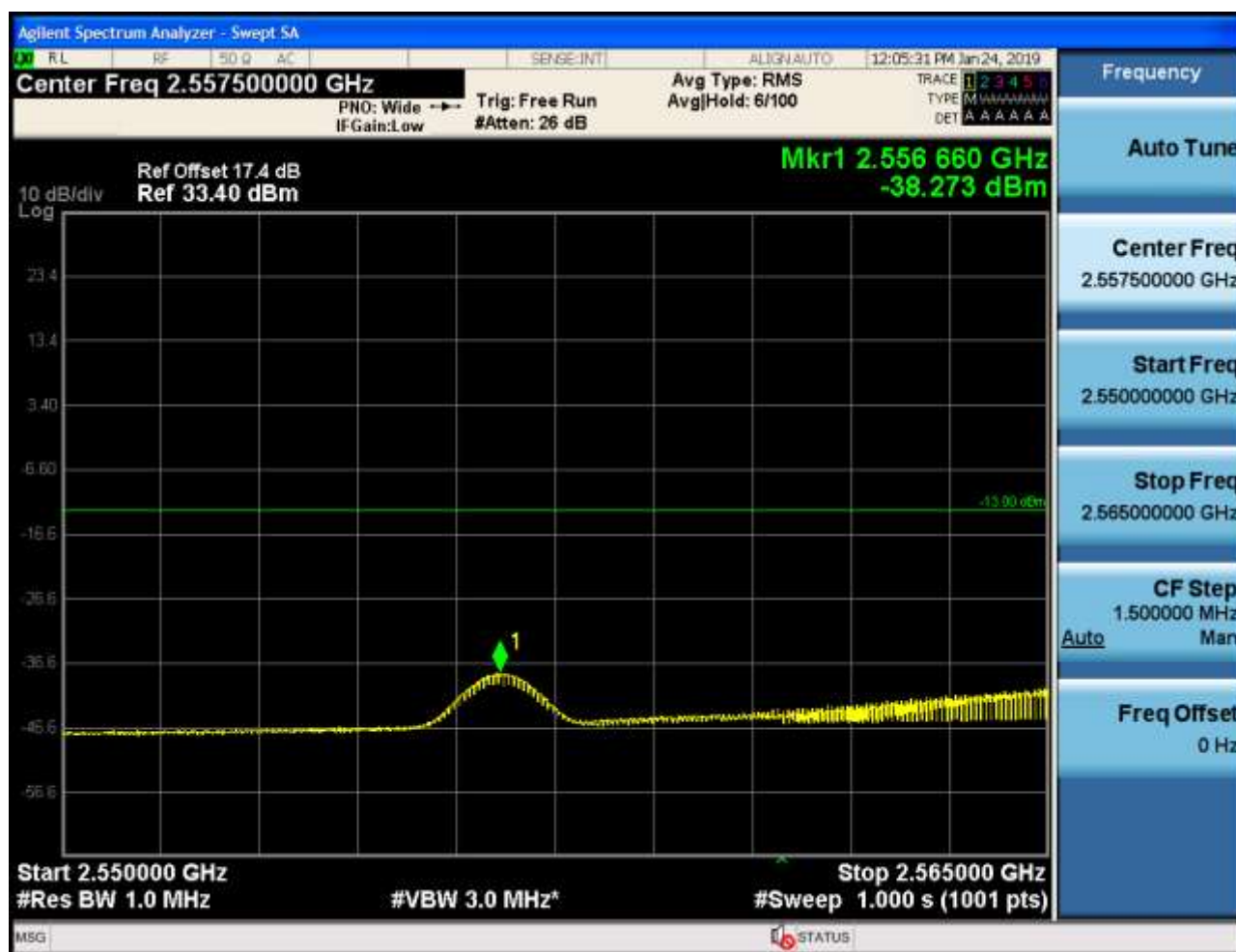
5.1.1 Test Band = CA_38C

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







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







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







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







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







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







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







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







5.1.1.1.2 Test Bandwidth = 20+20

5.1.1.1.2.1 Test Channel = LCH

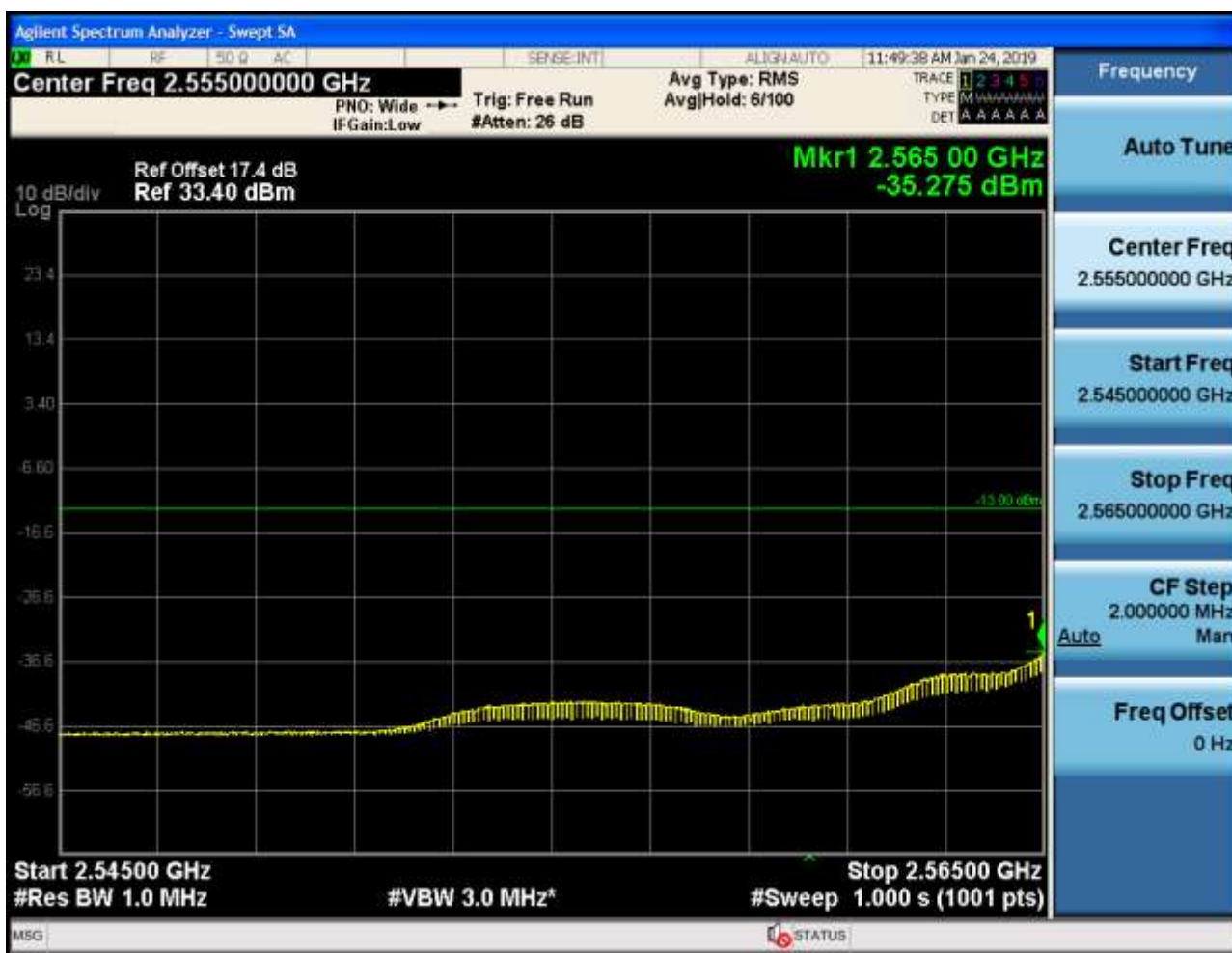
5.1.1.1.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







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







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







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

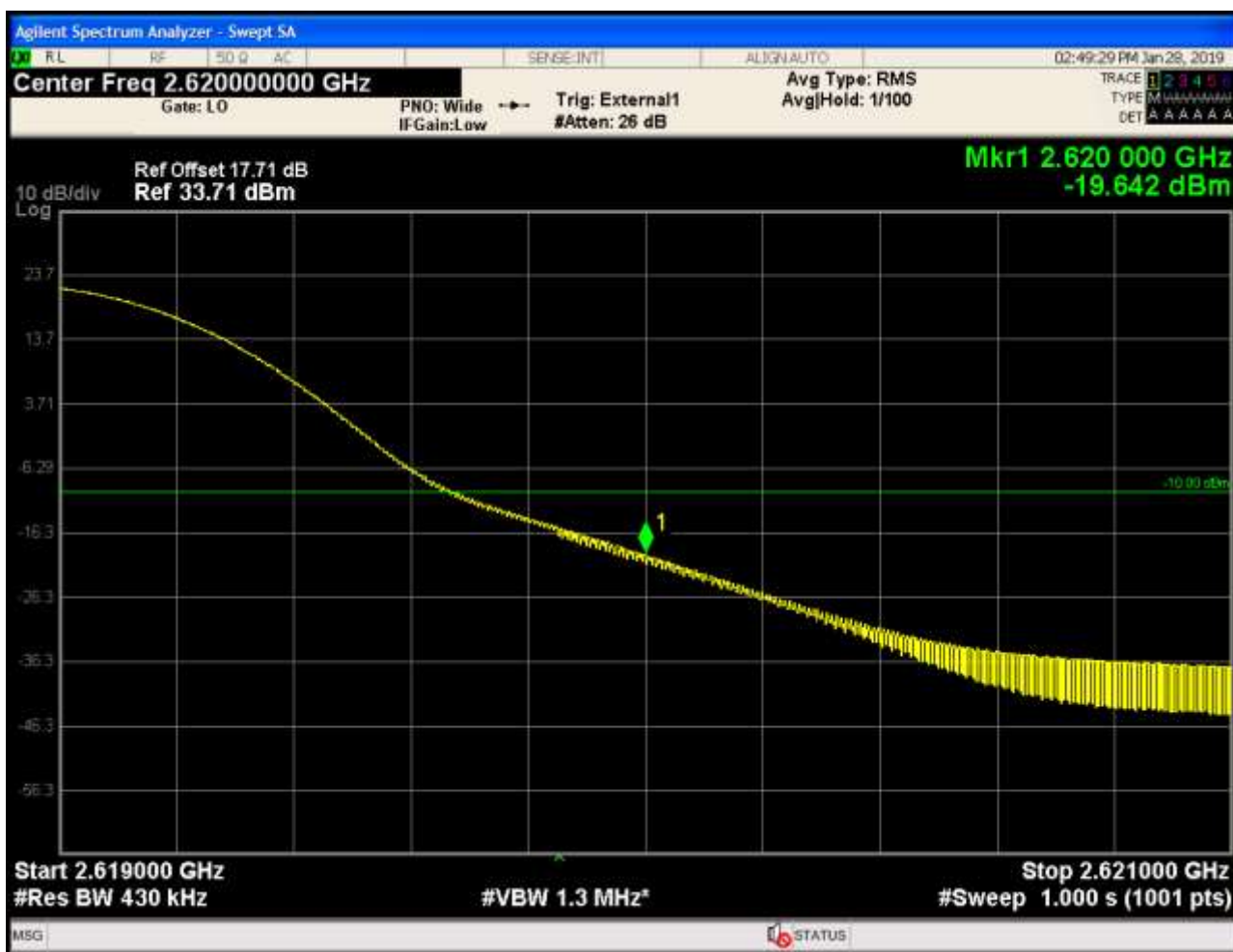




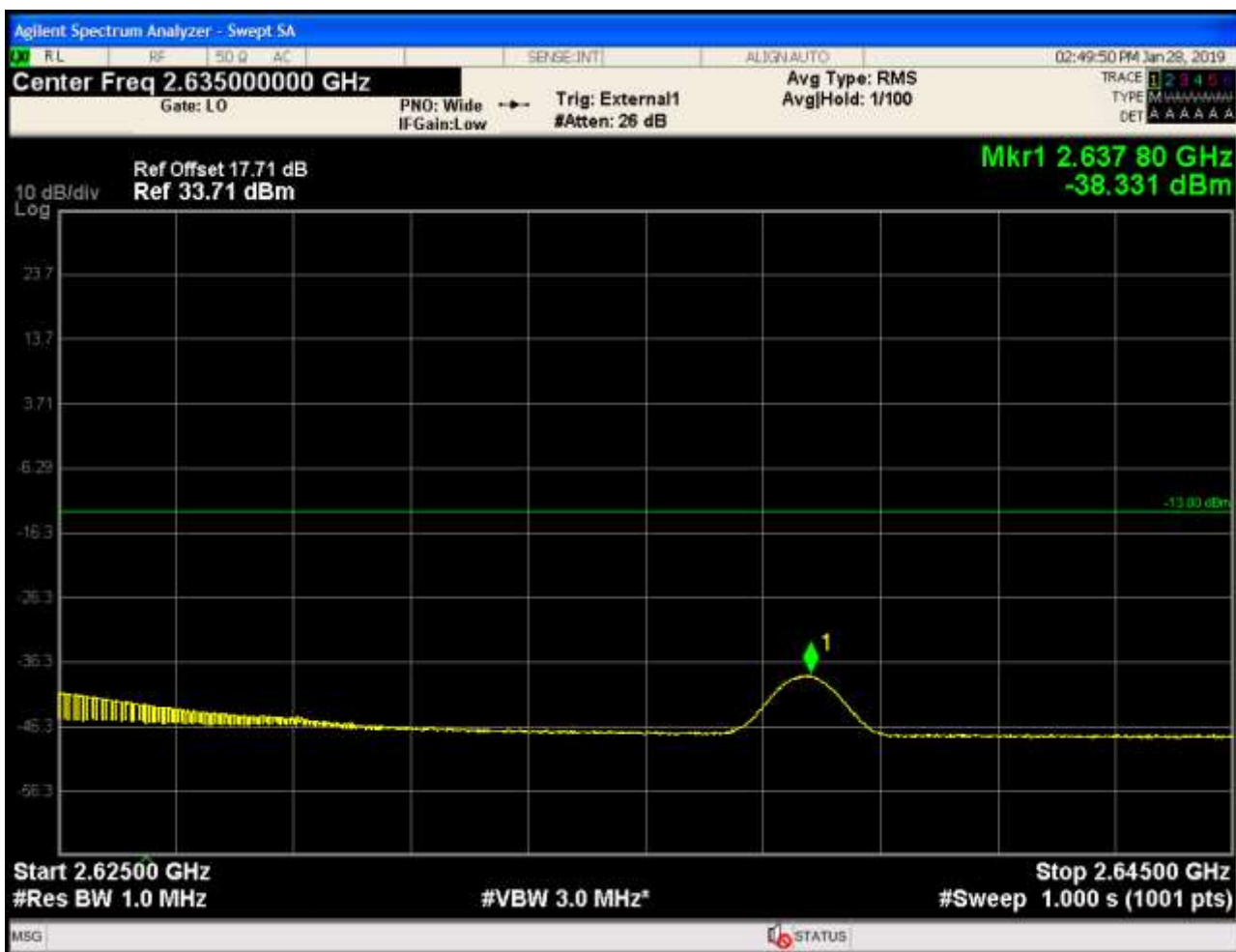


5.1.1.1.2.2 Test Channel = HCH

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







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







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







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







5.1.1.2 Test Mode = LTE/TM2

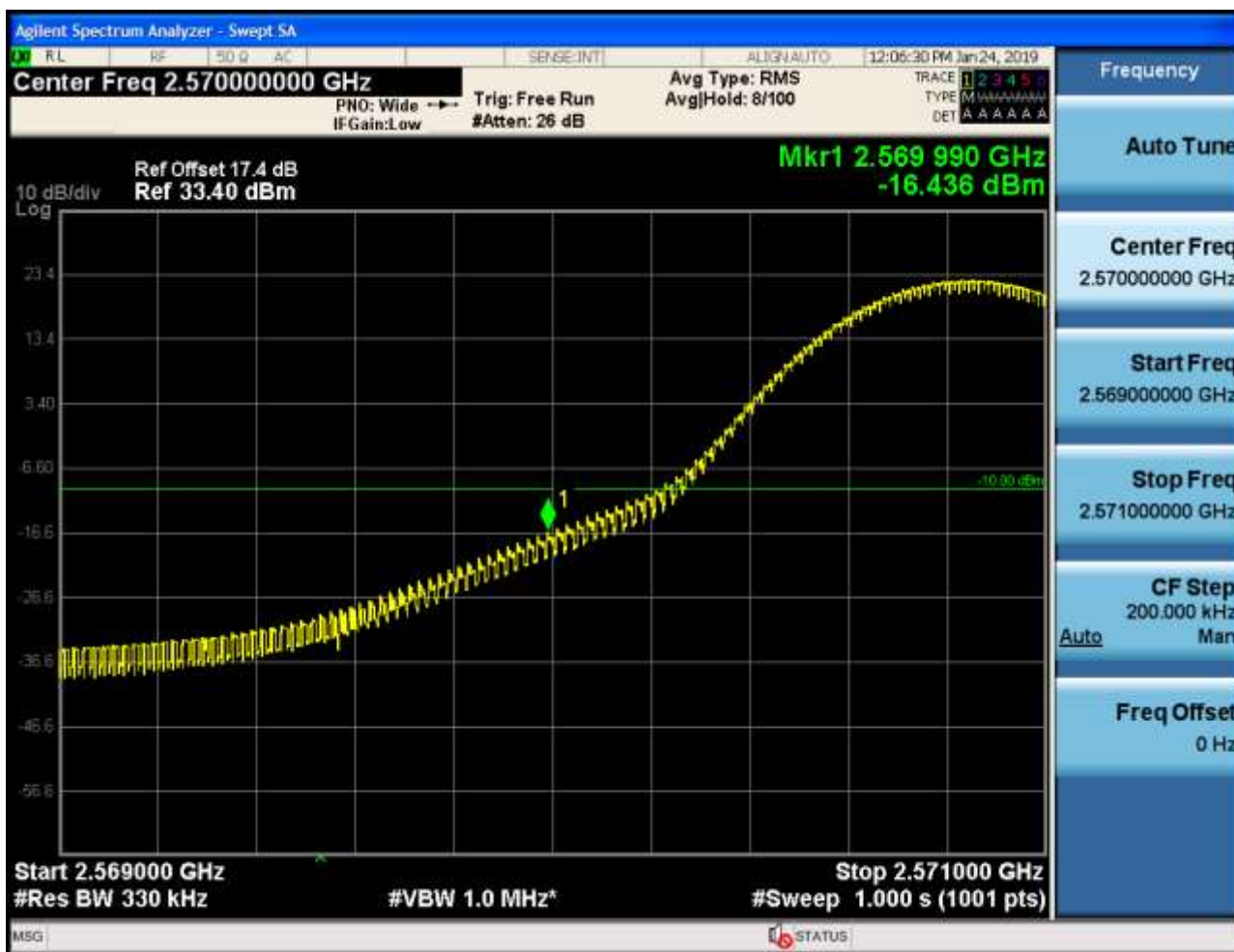
5.1.1.2.1 Test Bandwidth = 15+15

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







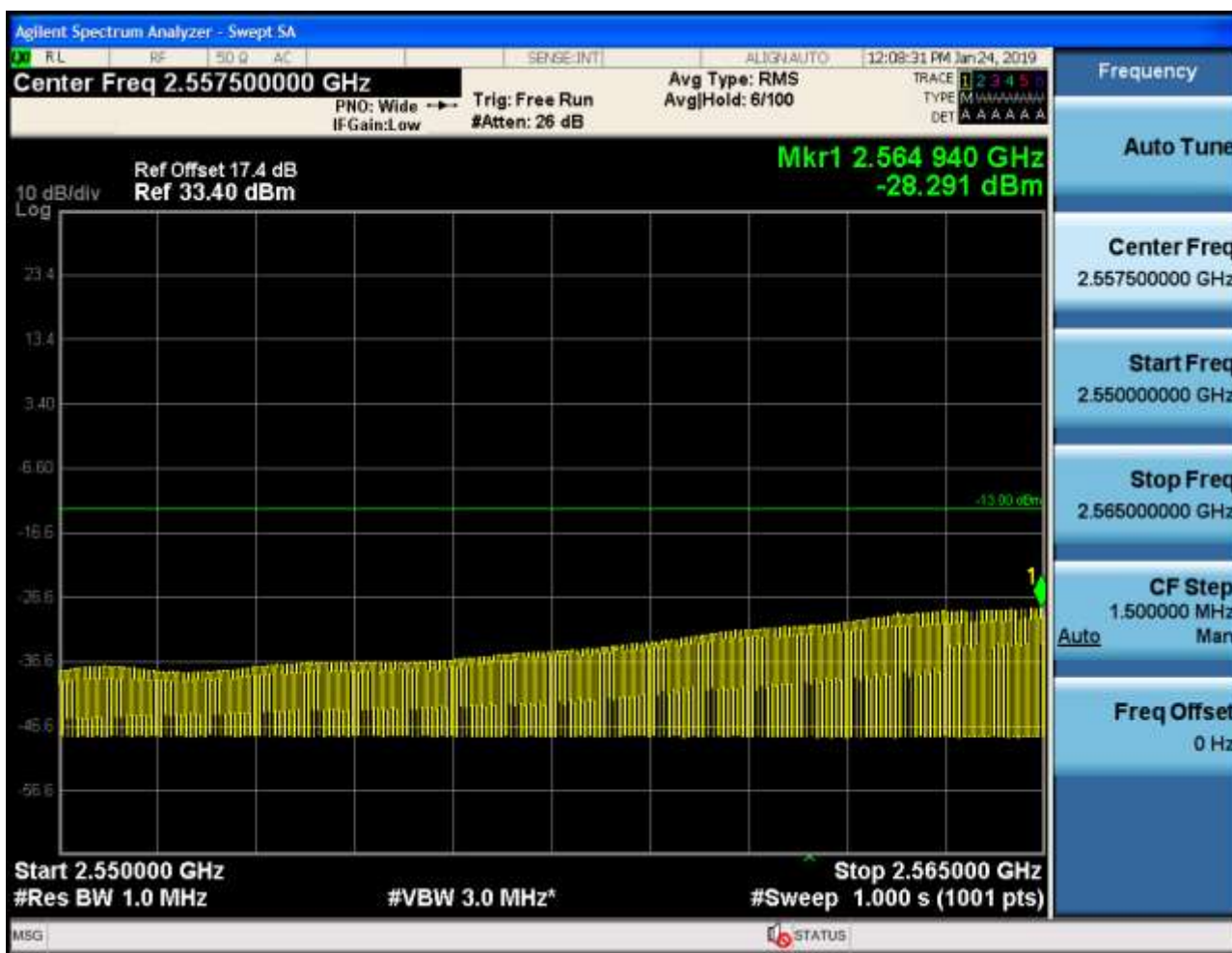
5.1.1.2.1.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0







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







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







5.1.1.2.1.2 Test Channel = HCH

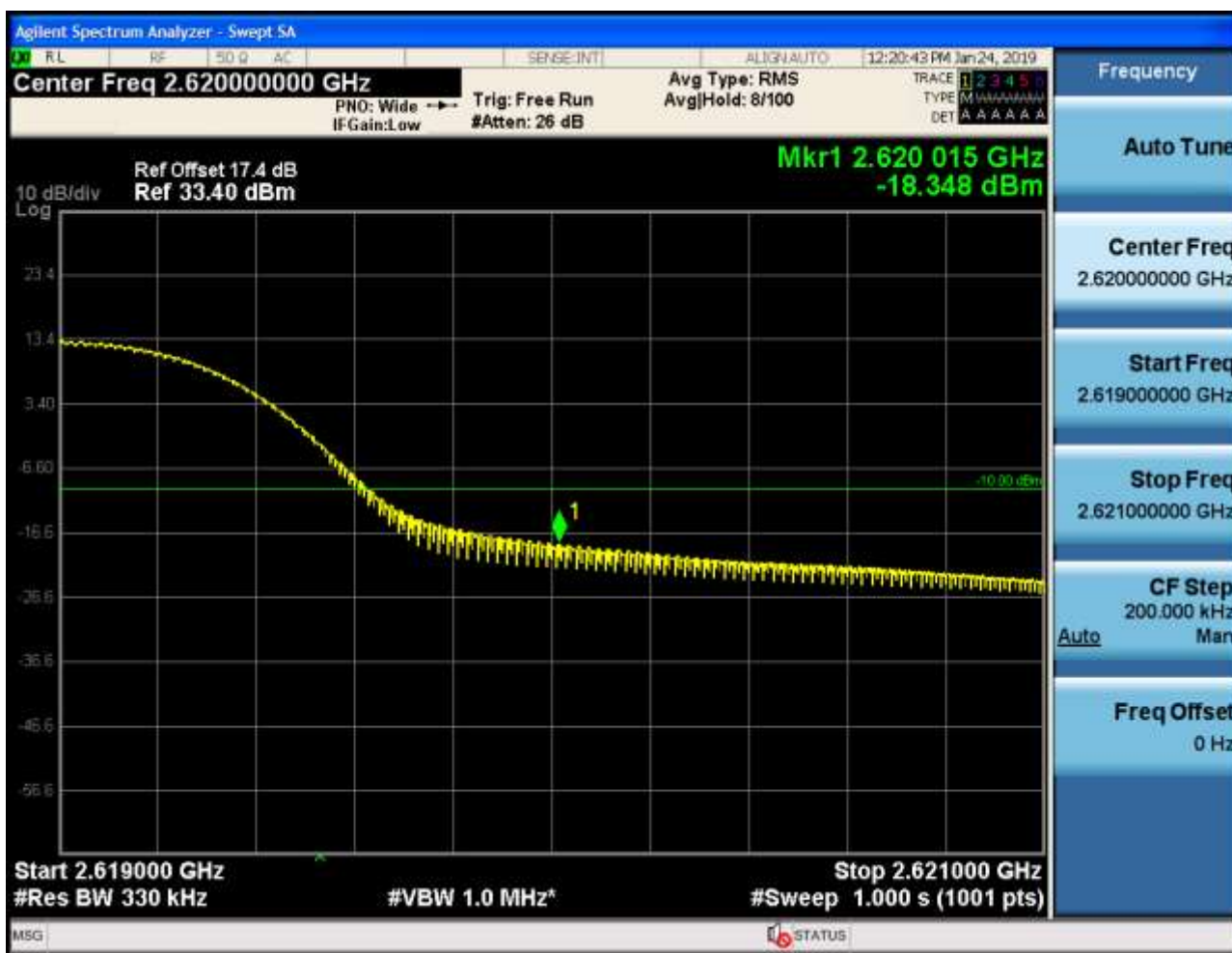
5.1.1.2.1.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max







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







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







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



