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 Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
Band5	LTE/TM1	1.4	LCH	RB1#0	24.41	17.31	38.5	PASS
				RB1#3	24.31	17.21	38.5	PASS
				RB1#5	24.27	17.17	38.5	PASS
				RB3#0	24.31	17.21	38.5	PASS
				RB3#2	24.24	17.14	38.5	PASS
				RB3#3	24.24	17.14	38.5	PASS
				RB6#0	23.19	16.09	38.5	PASS
			MCH	RB1#0	24.26	17.16	38.5	PASS
				RB1#3	24.40	17.30	38.5	PASS
				RB1#5	24.24	17.14	38.5	PASS
				RB3#0	24.24	17.14	38.5	PASS
				RB3#2	24.23	17.13	38.5	PASS
				RB3#3	24.30	17.20	38.5	PASS
				RB6#0	23.13	16.03	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	24.33	17.23	38.5	PASS
				RB1#3	24.21	17.11	38.5	PASS
				RB1#5	24.18	17.08	38.5	PASS
				RB3#0	24.04	16.94	38.5	PASS
				RB3#2	24.18	17.08	38.5	PASS
				RB3#3	24.12	17.02	38.5	PASS
				RB6#0	23.05	15.95	38.5	PASS
		3	LCH	RB1#0	24.20	17.10	38.5	PASS
				RB1#7	24.32	17.22	38.5	PASS
				RB1#14	24.20	17.10	38.5	PASS
				RB8#0	23.25	16.15	38.5	PASS
				RB8#4	23.25	16.15	38.5	PASS
				RB8#7	23.13	16.03	38.5	PASS
				RB15#0	23.36	16.26	38.5	PASS
			MCH	RB1#0	24.17	17.07	38.5	PASS
				RB1#7	24.11	17.01	38.5	PASS
				RB1#14	24.06	16.96	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	23.14	16.04	38.5	PASS
				RB8#4	23.11	16.01	38.5	PASS
				RB8#7	23.15	16.05	38.5	PASS
				RB15#0	23.16	16.06	38.5	PASS
			HCH	RB1#0	24.11	17.01	38.5	PASS
				RB1#7	24.01	16.91	38.5	PASS
				RB1#14	24.20	17.10	38.5	PASS
				RB8#0	23.05	15.95	38.5	PASS
				RB8#4	23.00	15.90	38.5	PASS
				RB8#7	23.00	15.90	38.5	PASS
				RB15#0	23.00	15.90	38.5	PASS
		5	LCH	RB1#0	24.19	17.09	38.5	PASS
				RB1#13	24.32	17.22	38.5	PASS
				RB1#24	24.28	17.18	38.5	PASS
				RB12#0	23.27	16.17	38.5	PASS
				RB12#6	23.33	16.23	38.5	PASS
				RB12#13	23.27	16.17	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	23.25	16.15	38.5	PASS
			MCH	RB1#0	24.21	17.11	38.5	PASS
				RB1#13	24.25	17.15	38.5	PASS
				RB1#24	24.26	17.16	38.5	PASS
				RB12#0	23.26	16.16	38.5	PASS
				RB12#6	23.18	16.08	38.5	PASS
				RB12#13	23.17	16.07	38.5	PASS
				RB25#0	23.18	16.08	38.5	PASS
			HCH	RB1#0	24.23	17.13	38.5	PASS
				RB1#13	24.23	17.13	38.5	PASS
				RB1#24	24.34	17.24	38.5	PASS
				RB12#0	23.28	16.18	38.5	PASS
				RB12#6	23.13	16.03	38.5	PASS
				RB12#13	23.00	15.90	38.5	PASS
				RB25#0	23.10	16.00	38.5	PASS
		10	LCH	RB1#0	24.24	17.14	38.5	PASS
				RB1#25	24.32	17.22	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	24.20	17.10	38.5	PASS
				RB25#0	23.33	16.23	38.5	PASS
				RB25#13	23.26	16.16	38.5	PASS
				RB25#25	23.30	16.20	38.5	PASS
				RB50#0	23.27	16.17	38.5	PASS
			MCH	RB1#0	24.23	17.13	38.5	PASS
				RB1#25	24.13	17.03	38.5	PASS
				RB1#49	24.15	17.05	38.5	PASS
				RB25#0	23.20	16.10	38.5	PASS
				RB25#13	23.21	16.11	38.5	PASS
				RB25#25	23.25	16.15	38.5	PASS
				RB50#0	23.21	16.11	38.5	PASS
			HCH	RB1#0	24.15	17.05	38.5	PASS
				RB1#25	24.21	17.11	38.5	PASS
				RB1#49	24.07	16.97	38.5	PASS
				RB25#0	23.16	16.06	38.5	PASS
				RB25#13	23.20	16.10	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	23.13	16.03	38.5	PASS
				RB50#0	23.14	16.04	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	23.50	16.40	38.5	PASS
				RB1#3	23.43	16.33	38.5	PASS
				RB1#5	23.51	16.41	38.5	PASS
				RB3#0	23.28	16.18	38.5	PASS
				RB3#2	23.22	16.12	38.5	PASS
				RB3#3	23.35	16.25	38.5	PASS
				RB6#0	22.18	15.08	38.5	PASS
			MCH	RB1#0	23.42	16.32	38.5	PASS
				RB1#3	23.60	16.50	38.5	PASS
				RB1#5	23.47	16.37	38.5	PASS
				RB3#0	23.36	16.26	38.5	PASS
				RB3#2	23.37	16.27	38.5	PASS
				RB3#3	23.40	16.30	38.5	PASS
				RB6#0	22.29	15.19	38.5	PASS
			HCH	RB1#0	23.62	16.52	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	23.42	16.32	38.5	PASS
				RB1#5	23.40	16.30	38.5	PASS
				RB3#0	23.34	16.24	38.5	PASS
				RB3#2	23.23	16.13	38.5	PASS
				RB3#3	23.37	16.27	38.5	PASS
				RB6#0	22.13	15.03	38.5	PASS
		3	LCH	RB1#0	23.60	16.50	38.5	PASS
				RB1#7	23.20	16.10	38.5	PASS
				RB1#14	23.75	16.65	38.5	PASS
				RB8#0	22.21	15.11	38.5	PASS
				RB8#4	22.32	15.22	38.5	PASS
				RB8#7	22.32	15.22	38.5	PASS
				RB15#0	22.37	15.27	38.5	PASS
			MCH	RB1#0	23.39	16.29	38.5	PASS
				RB1#7	23.55	16.45	38.5	PASS
				RB1#14	23.43	16.33	38.5	PASS
				RB8#0	22.15	15.05	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#4	22.11	15.01	38.5	PASS
				RB8#7	22.16	15.06	38.5	PASS
				RB15#0	22.13	15.03	38.5	PASS
			HCH	RB1#0	23.24	16.14	38.5	PASS
				RB1#7	23.24	16.14	38.5	PASS
				RB1#14	23.28	16.18	38.5	PASS
				RB8#0	22.01	14.91	38.5	PASS
				RB8#4	22.07	14.97	38.5	PASS
				RB8#7	22.05	14.95	38.5	PASS
				RB15#0	21.98	14.88	38.5	PASS
		5	LCH	RB1#0	23.46	16.36	38.5	PASS
				RB1#13	23.62	16.52	38.5	PASS
				RB1#24	23.50	16.40	38.5	PASS
				RB12#0	22.27	15.17	38.5	PASS
				RB12#6	22.40	15.30	38.5	PASS
				RB12#13	22.28	15.18	38.5	PASS
				RB25#0	22.27	15.17	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	23.41	16.31	38.5	PASS
				RB1#13	23.44	16.34	38.5	PASS
				RB1#24	23.46	16.36	38.5	PASS
				RB12#0	22.34	15.24	38.5	PASS
				RB12#6	22.17	15.07	38.5	PASS
				RB12#13	22.25	15.15	38.5	PASS
				RB25#0	22.19	15.09	38.5	PASS
			HCH	RB1#0	23.54	16.44	38.5	PASS
				RB1#13	23.31	16.21	38.5	PASS
				RB1#24	23.40	16.30	38.5	PASS
				RB12#0	22.31	15.21	38.5	PASS
				RB12#6	22.17	15.07	38.5	PASS
				RB12#13	22.16	15.06	38.5	PASS
				RB25#0	22.14	15.04	38.5	PASS
		10	LCH	RB1#0	23.49	16.39	38.5	PASS
				RB1#25	23.36	16.26	38.5	PASS
				RB1#49	23.38	16.28	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.24	15.14	38.5	PASS
				RB25#13	22.29	15.19	38.5	PASS
				RB25#25	22.33	15.23	38.5	PASS
				RB50#0	22.28	15.18	38.5	PASS
			MCH	RB1#0	23.51	16.41	38.5	PASS
				RB1#25	23.50	16.40	38.5	PASS
				RB1#49	23.40	16.30	38.5	PASS
				RB25#0	22.20	15.10	38.5	PASS
				RB25#13	22.25	15.15	38.5	PASS
				RB25#25	22.25	15.15	38.5	PASS
				RB50#0	22.23	15.13	38.5	PASS
			HCH	RB1#0	23.40	16.30	38.5	PASS
				RB1#25	23.45	16.35	38.5	PASS
				RB1#49	23.40	16.30	38.5	PASS
				RB25#0	22.20	15.10	38.5	PASS
				RB25#13	22.22	15.12	38.5	PASS
				RB25#25	22.17	15.07	38.5	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	22.18	15.08	38.5	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,

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(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
Band5	LTE/TM1	1.4	LCH	RB1#0	3.86	13	PASS
				RB1#3	4.03	13	PASS
				RB1#5	3.82	13	PASS
				RB3#0	4.66	13	PASS
				RB3#2	4.50	13	PASS
				RB3#3	4.60	13	PASS
				RB6#0	5.56	13	PASS
			MCH	RB1#0	4.31	13	PASS
				RB1#3	3.98	13	PASS
				RB1#5	4.08	13	PASS
				RB3#0	4.71	13	PASS
				RB3#2	4.67	13	PASS
				RB3#3	4.75	13	PASS
				RB6#0	5.45	13	PASS
			HCH	RB1#0	3.74	13	PASS
				RB1#3	3.57	13	PASS
				RB1#5	3.61	13	PASS
				RB3#0	4.13	13	PASS
				RB3#2	4.08	13	PASS
				RB3#3	4.00	13	PASS
				RB6#0	5.25	13	PASS
		3	LCH	RB1#0	4.26	13	PASS
				RB1#7	3.76	13	PASS
				RB1#14	3.85	13	PASS
				RB8#0	5.35	13	PASS
				RB8#4	5.25	13	PASS
				RB8#7	5.22	13	PASS
				RB15#0	5.63	13	PASS
			MCH	RB1#0	4.40	13	PASS
				RB1#7	4.45	13	PASS
				RB1#14	4.52	13	PASS
				RB8#0	5.48	13	PASS
				RB8#4	5.53	13	PASS
				RB8#7	5.50	13	PASS
				RB15#0	5.67	13	PASS

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Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	3.70	13	PASS
				RB1#7	3.68	13	PASS
				RB1#14	3.21	13	PASS
				RB8#0	5.18	13	PASS
				RB8#4	5.03	13	PASS
				RB8#7	5.03	13	PASS
				RB15#0	5.55	13	PASS
		5	LCH	RB1#0	4.17	13	PASS
				RB1#13	3.75	13	PASS
				RB1#24	3.84	13	PASS
				RB12#0	5.30	13	PASS
				RB12#6	5.19	13	PASS
				RB12#13	4.97	13	PASS
				RB25#0	5.51	13	PASS
			MCH	RB1#0	4.11	13	PASS
				RB1#13	4.20	13	PASS
				RB1#24	4.17	13	PASS
				RB12#0	5.79	13	PASS
				RB12#6	5.60	13	PASS
				RB12#13	5.52	13	PASS
				RB25#0	5.86	13	PASS
			HCH	RB1#0	3.93	13	PASS
				RB1#13	3.79	13	PASS
				RB1#24	3.65	13	PASS
				RB12#0	5.34	13	PASS
				RB12#6	5.20	13	PASS
				RB12#13	5.24	13	PASS
				RB25#0	5.73	13	PASS
		10	LCH	RB1#0	4.15	13	PASS
				RB1#25	3.93	13	PASS
				RB1#49	4.25	13	PASS
				RB25#0	5.31	13	PASS
				RB25#13	5.21	13	PASS
				RB25#25	5.41	13	PASS
				RB50#0	5.70	13	PASS
			MCH	RB1#0	4.03	13	PASS
				RB1#25	4.24	13	PASS
				RB1#49	4.20	13	PASS
				RB25#0	5.58	13	PASS

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Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	5.60	13	PASS
				RB25#25	5.67	13	PASS
				RB50#0	5.93	13	PASS
			HCH	RB1#0	4.09	13	PASS
				RB1#25	3.88	13	PASS
				RB1#49	3.72	13	PASS
				RB25#0	5.60	13	PASS
				RB25#13	5.42	13	PASS
				RB25#25	5.50	13	PASS
				RB50#0	5.76	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.85	13	PASS
				RB1#3	5.14	13	PASS
				RB1#5	5.20	13	PASS
				RB3#0	5.42	13	PASS
				RB3#2	5.13	13	PASS
				RB3#3	5.33	13	PASS
				RB6#0	6.21	13	PASS
			MCH	RB1#0	5.33	13	PASS
				RB1#3	4.96	13	PASS
				RB1#5	5.34	13	PASS
				RB3#0	5.43	13	PASS
				RB3#2	5.64	13	PASS
				RB3#3	5.70	13	PASS
				RB6#0	6.58	13	PASS
			HCH	RB1#0	4.34	13	PASS
				RB1#3	4.30	13	PASS
				RB1#5	4.25	13	PASS
				RB3#0	5.13	13	PASS
				RB3#2	5.16	13	PASS
				RB3#3	0.00	13	PASS
				RB6#0	6.34	13	PASS
		3	LCH	RB1#0	4.63	13	PASS
				RB1#7	4.61	13	PASS
				RB1#14	4.44	13	PASS
				RB8#0	6.19	13	PASS
				RB8#4	6.10	13	PASS
				RB8#7	6.08	13	PASS
				RB15#0	6.37	13	PASS
			MCH	RB1#0	5.30	13	PASS

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Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#7	5.22	13	PASS
				RB1#14	5.29	13	PASS
				RB8#0	6.49	13	PASS
				RB8#4	6.46	13	PASS
				RB8#7	6.52	13	PASS
				RB15#0	6.58	13	PASS
			HCH	RB1#0	4.71	13	PASS
				RB1#7	4.63	13	PASS
				RB1#14	4.48	13	PASS
				RB8#0	6.29	13	PASS
				RB8#4	6.08	13	PASS
				RB8#7	6.10	13	PASS
				RB15#0	6.26	13	PASS
		5	LCH	RB1#0	4.56	13	PASS
				RB1#13	4.54	13	PASS
				RB1#24	4.35	13	PASS
				RB12#0	5.79	13	PASS
				RB12#6	6.04	13	PASS
				RB12#13	6.06	13	PASS
				RB25#0	6.47	13	PASS
			MCH	RB1#0	5.25	13	PASS
				RB1#13	5.34	13	PASS
				RB1#24	5.26	13	PASS
				RB12#0	6.51	13	PASS
				RB12#6	6.47	13	PASS
				RB12#13	6.20	13	PASS
				RB25#0	6.70	13	PASS
			HCH	RB1#0	4.67	13	PASS
				RB1#13	4.40	13	PASS
				RB1#24	4.33	13	PASS
				RB12#0	6.24	13	PASS
				RB12#6	6.14	13	PASS
				RB12#13	5.93	13	PASS
				RB25#0	6.72	13	PASS
		10	LCH	RB1#0	4.78	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	4.86	13	PASS
				RB25#0	6.24	13	PASS
				RB25#13	6.08	13	PASS

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Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	6.29	13	PASS
				RB50#0	6.53	13	PASS
			MCH	RB1#0	4.84	13	PASS
				RB1#25	5.25	13	PASS
				RB1#49	5.15	13	PASS
				RB25#0	6.43	13	PASS
				RB25#13	6.45	13	PASS
				RB25#25	6.53	13	PASS
				RB50#0	6.85	13	PASS
			HCH	RB1#0	5.07	13	PASS
				RB1#25	4.72	13	PASS
				RB1#49	4.68	13	PASS
				RB25#0	6.52	13	PASS
				RB25#13	6.30	13	PASS
				RB25#25	6.33	13	PASS
				RB50#0	6.73	13	PASS

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3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

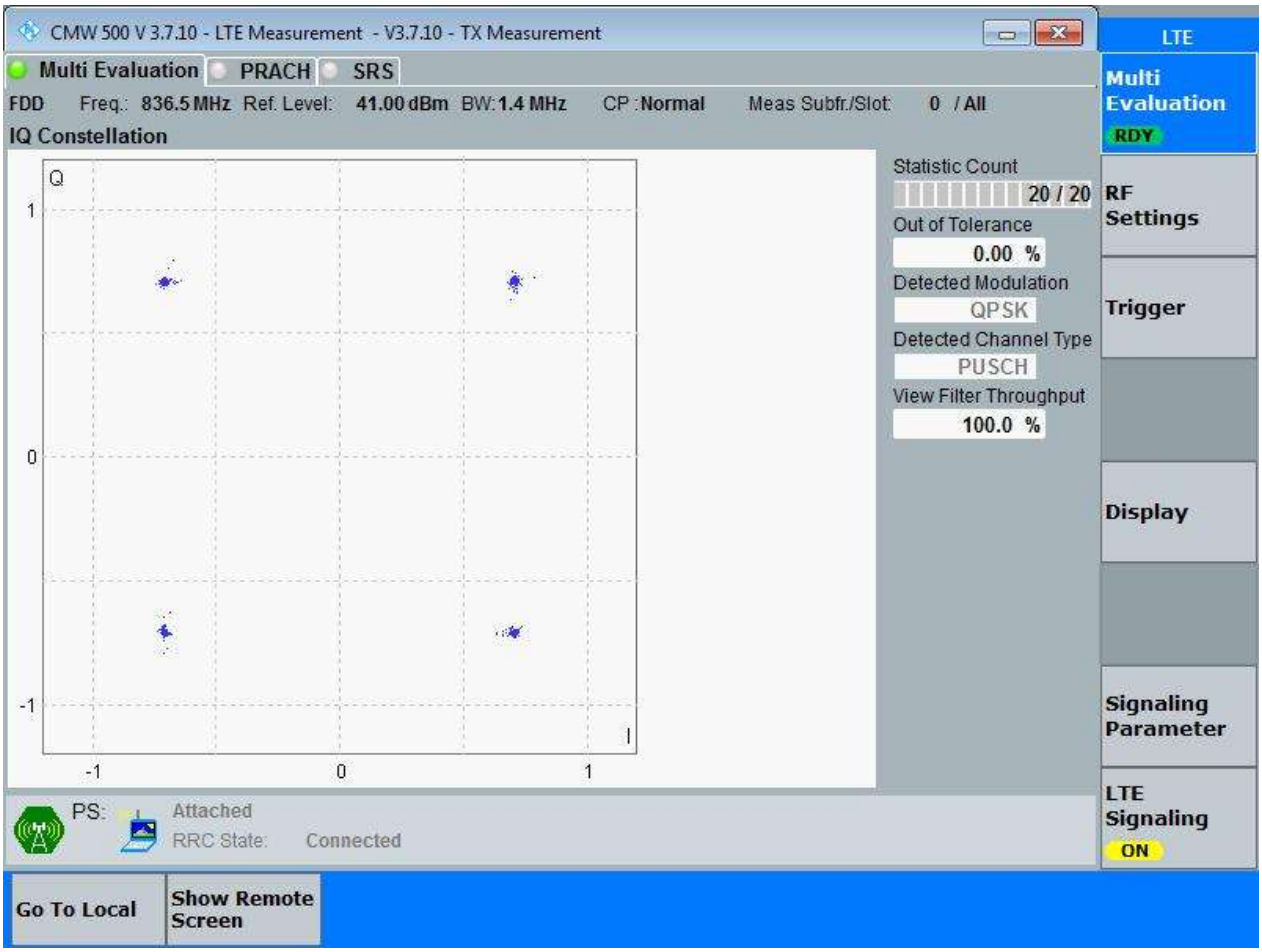
3.1.1 Test Band = Band5

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 Test RB = RB6#0



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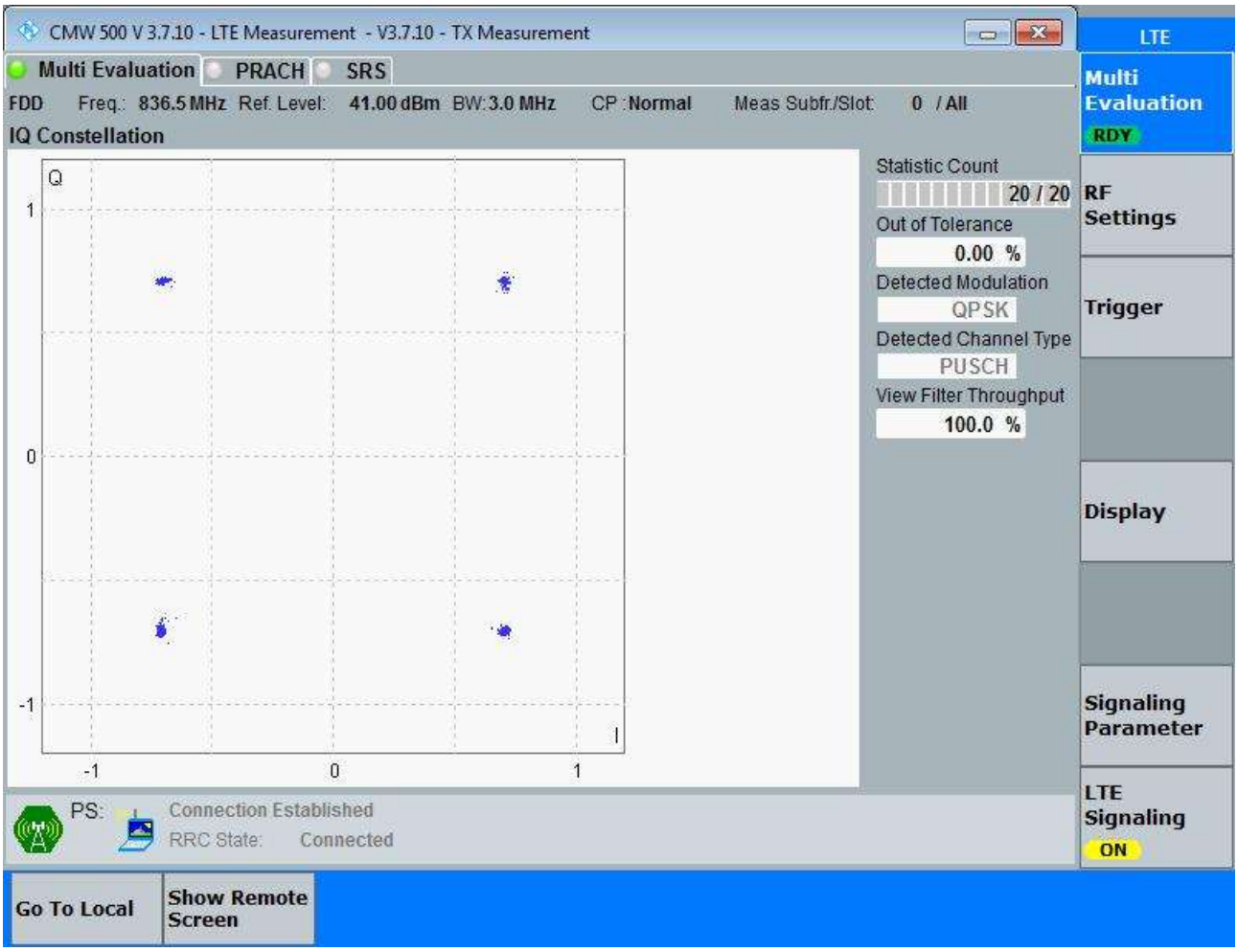
3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

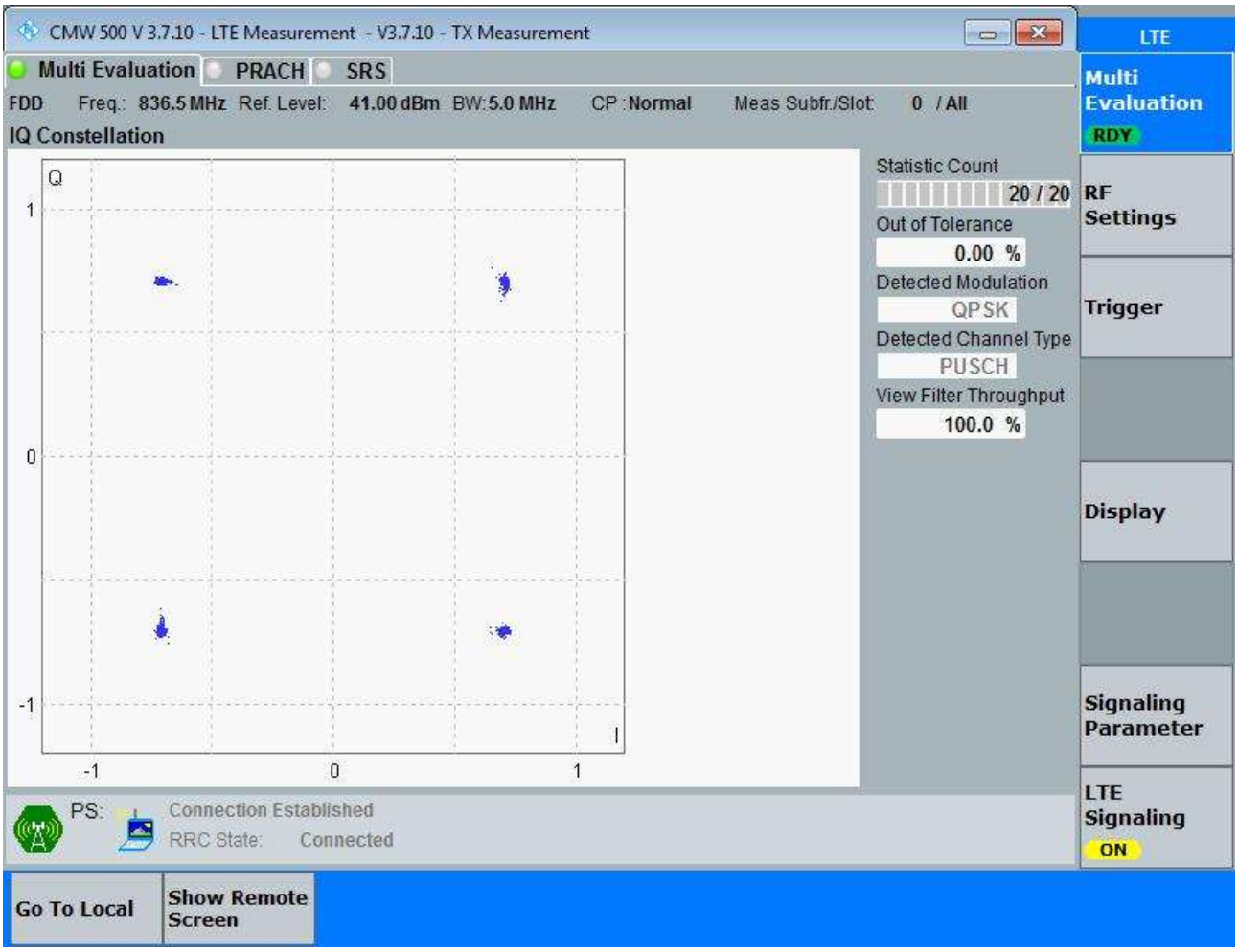
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

3.1.1.1.3.1.1 Test RB = RB25#0



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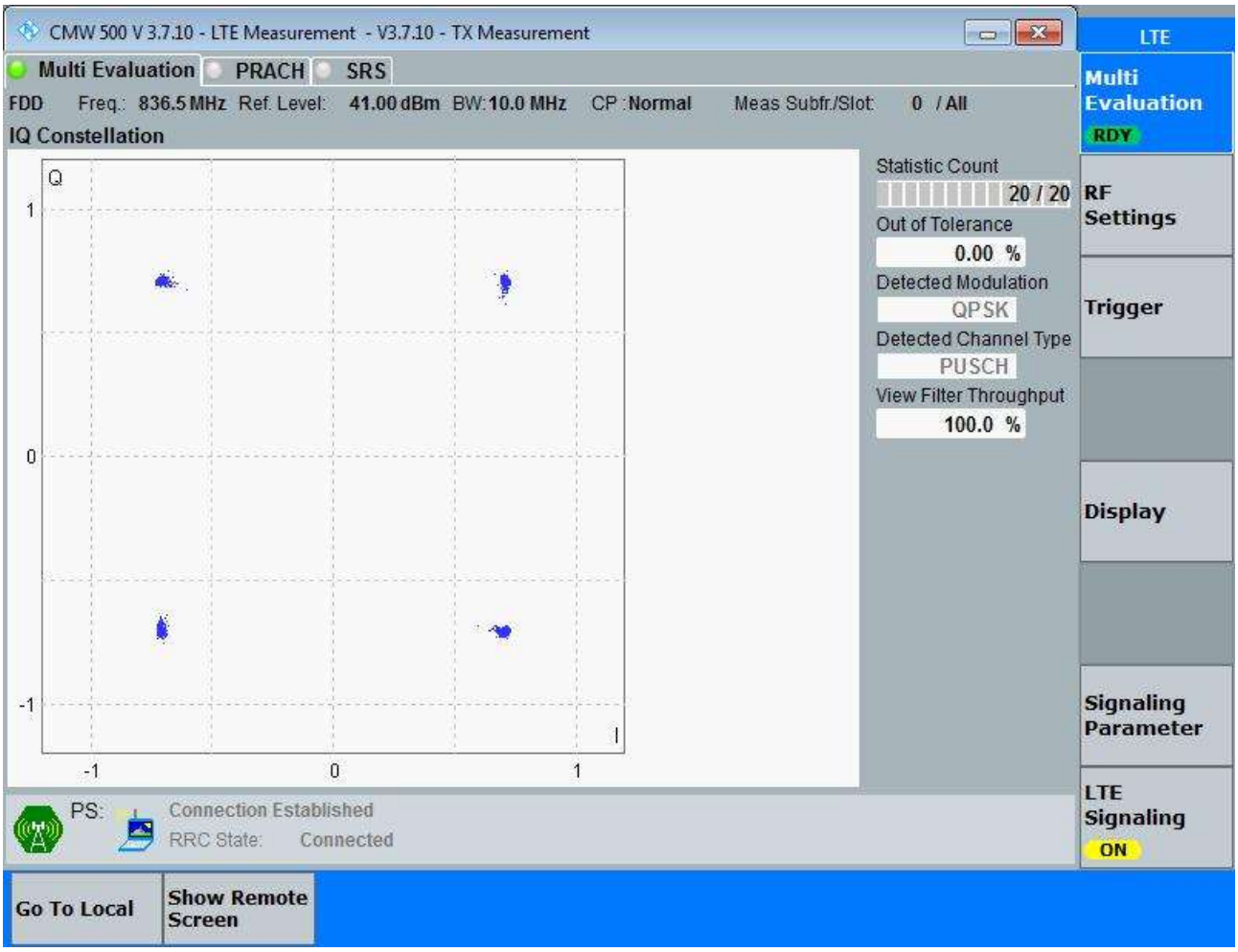
3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB50#0



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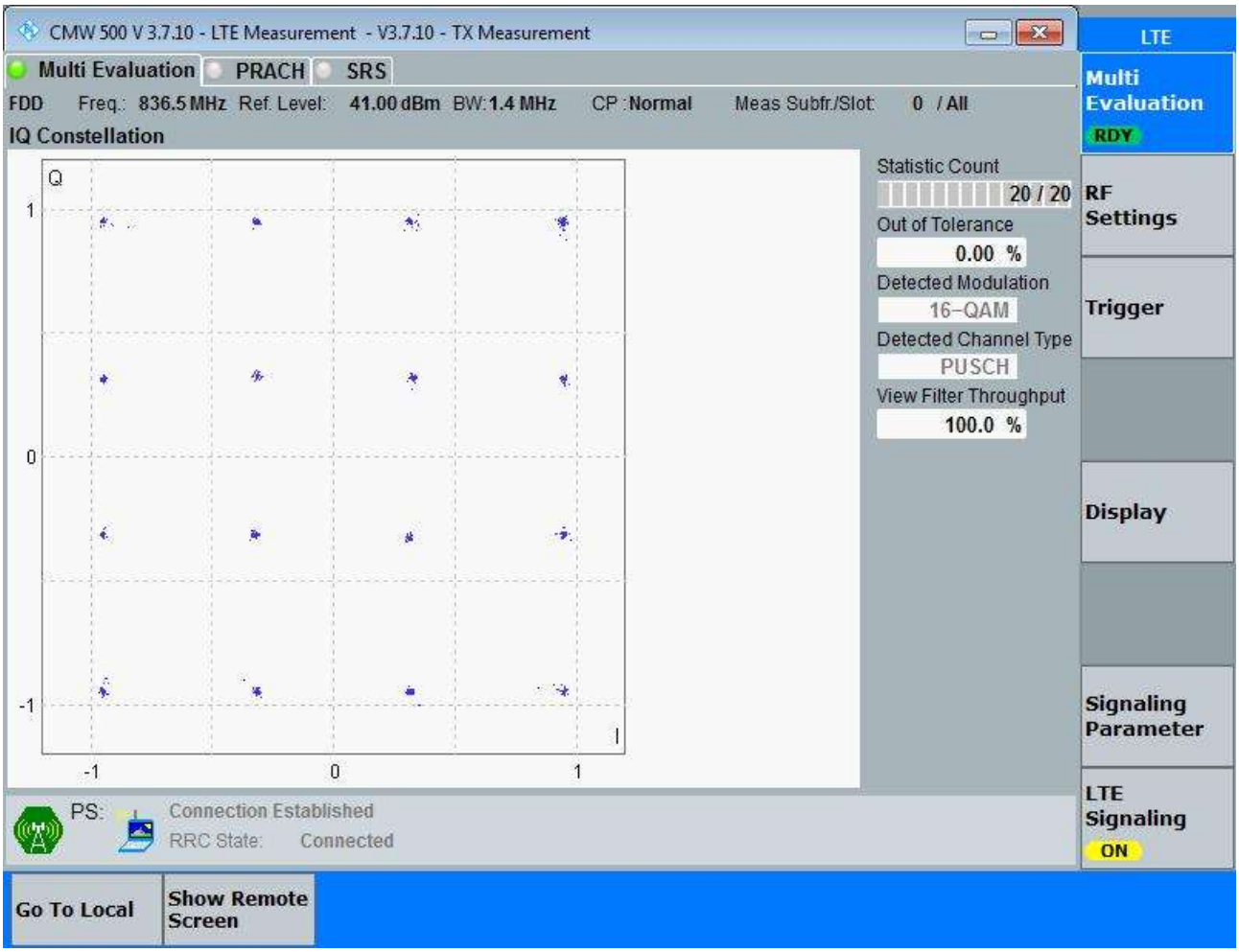
3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

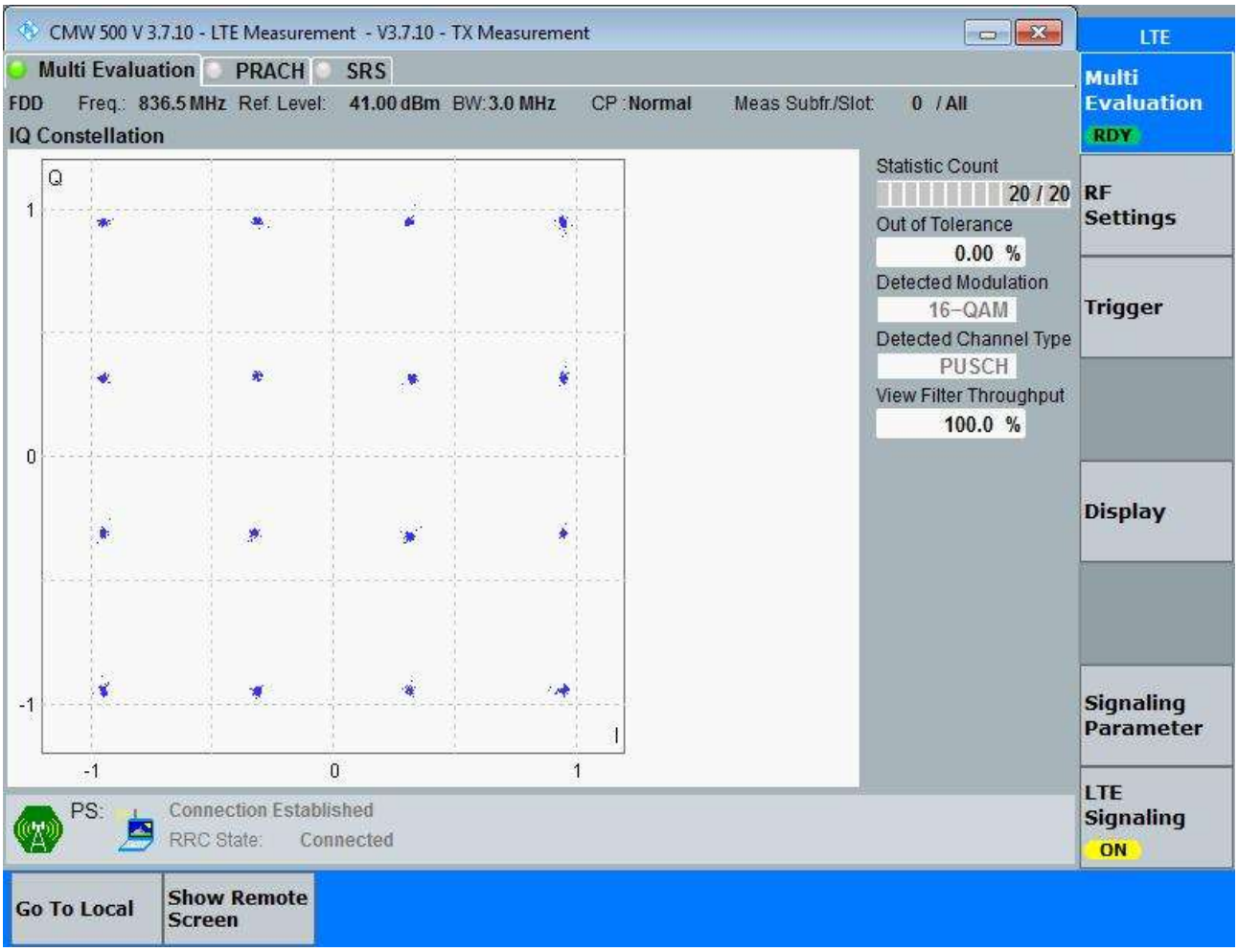
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB15#0



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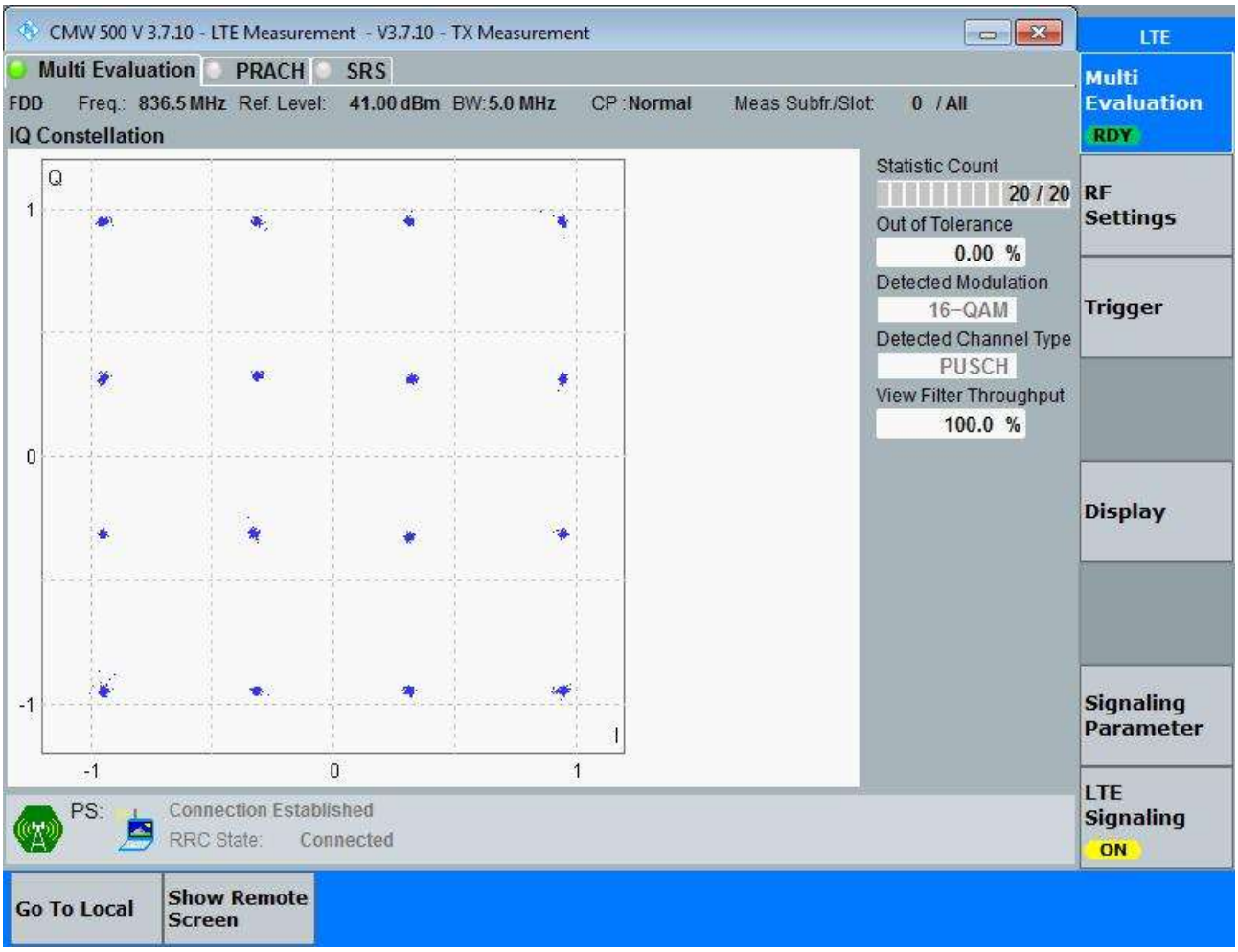
3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

3.1.1.2.3.1.1 Test RB = RB25#0



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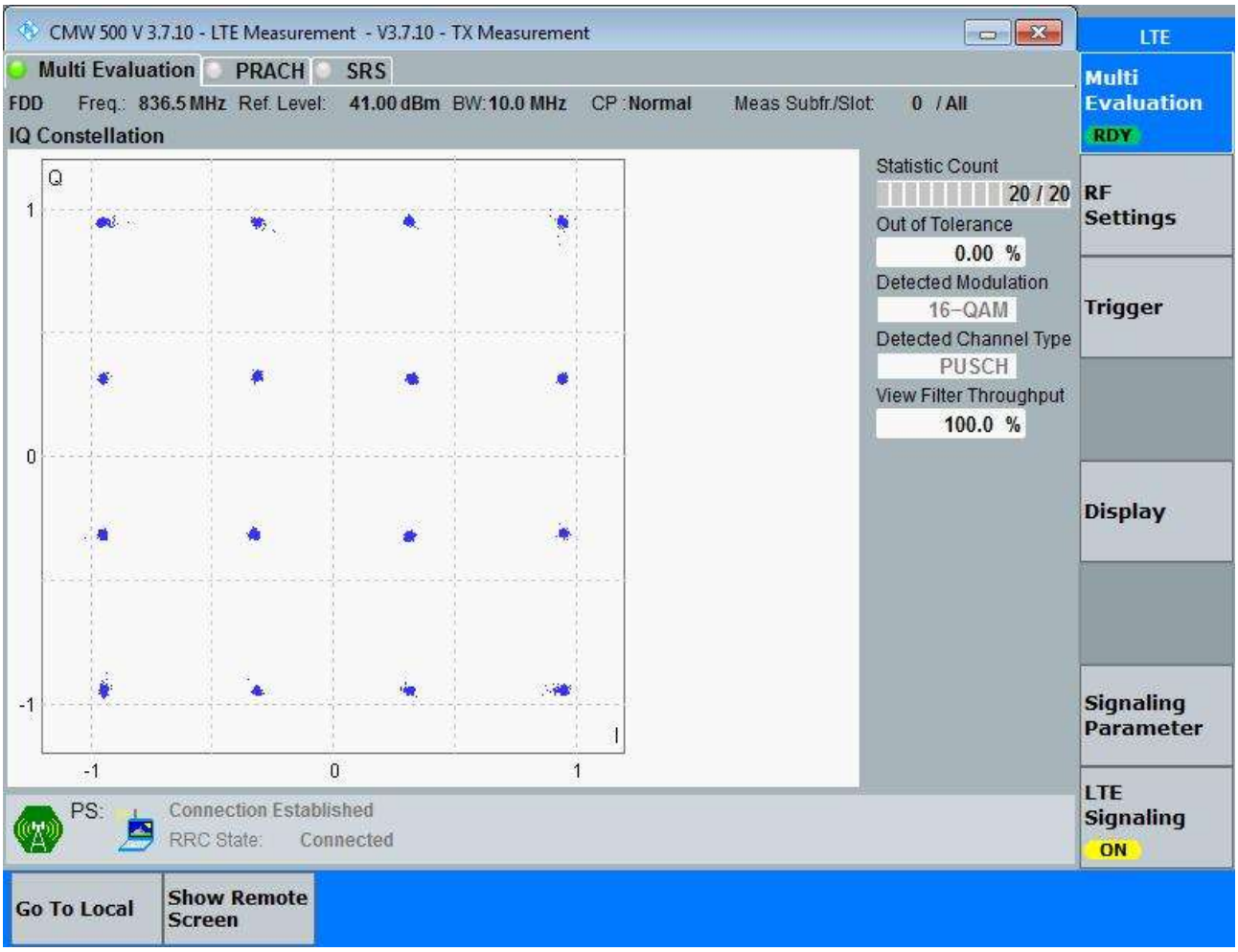
3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB50#0



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4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band5	LTE/TM1	1.4	LCH	RB6#0	1.10	1.23	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.71	2.97	Pass
			MCH	RB15#0	2.72	3.00	Pass
			HCH	RB15#0	2.72	2.98	Pass
		5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.52	4.97	Pass
			HCH	RB25#0	4.53	5.00	Pass
		10	LCH	RB50#0	8.99	9.90	Pass
			MCH	RB50#0	9.02	9.87	Pass
			HCH	RB50#0	8.98	9.87	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.10	1.25	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.72	2.99	Pass
		5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.52	4.99	Pass
		10	LCH	RB50#0	8.98	9.88	Pass
			MCH	RB50#0	9.03	9.94	Pass
			HCH	RB50#0	8.99	9.88	Pass

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Part II - Test Plots

4.1 For LTE

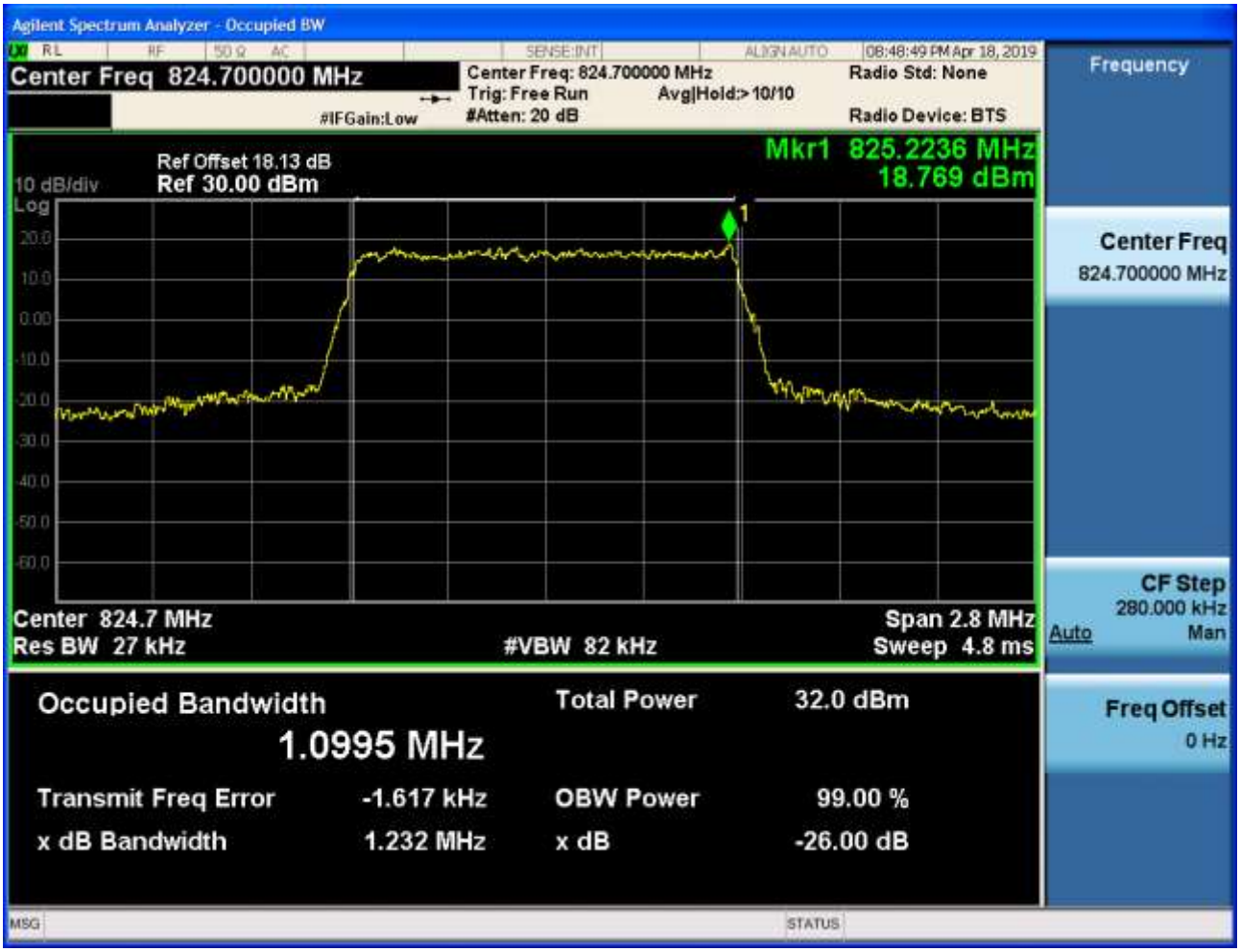
4.1.1 Test Band = Band5

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB6#0

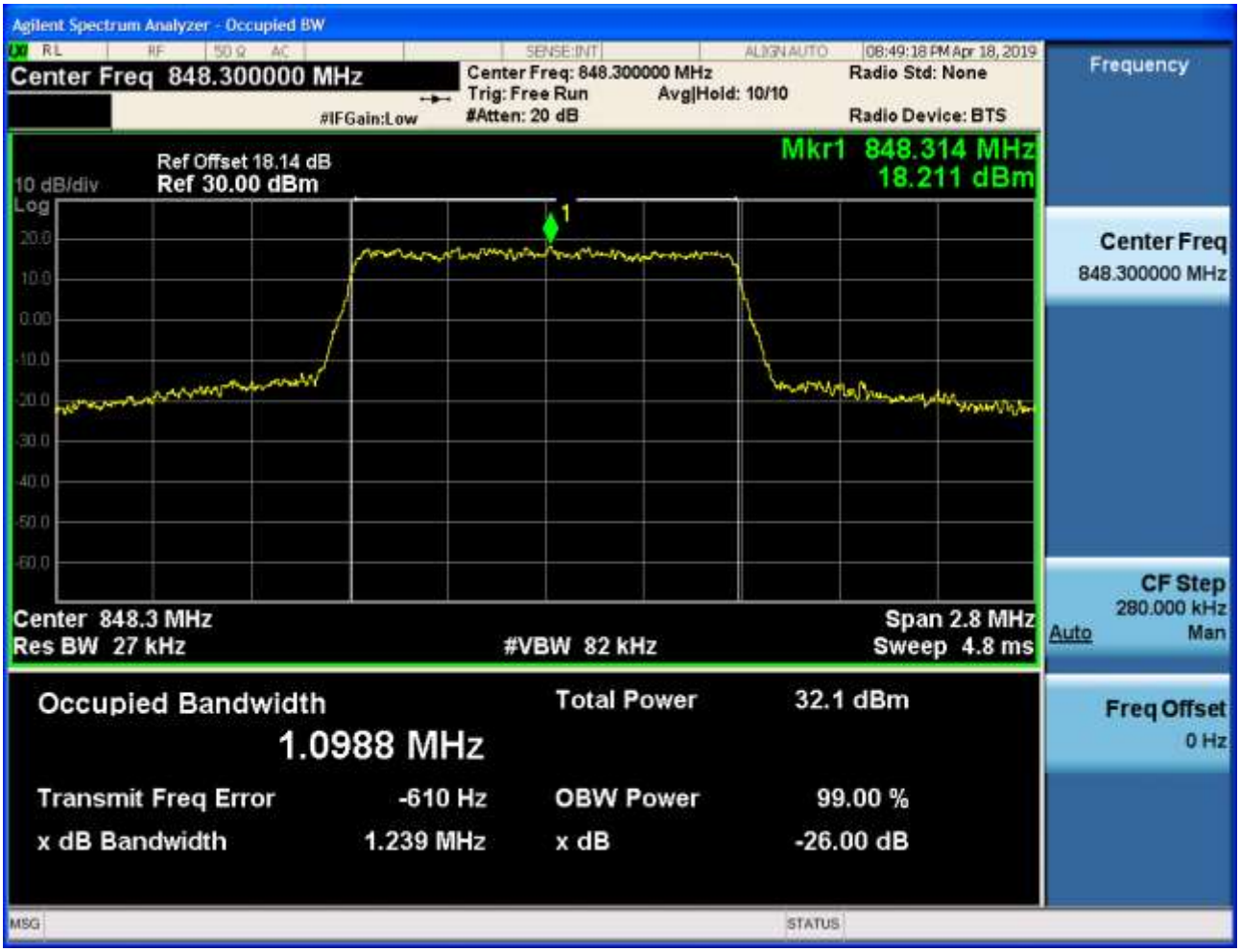


4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0

4.1.1.1.1.3 Test Channel = HCH

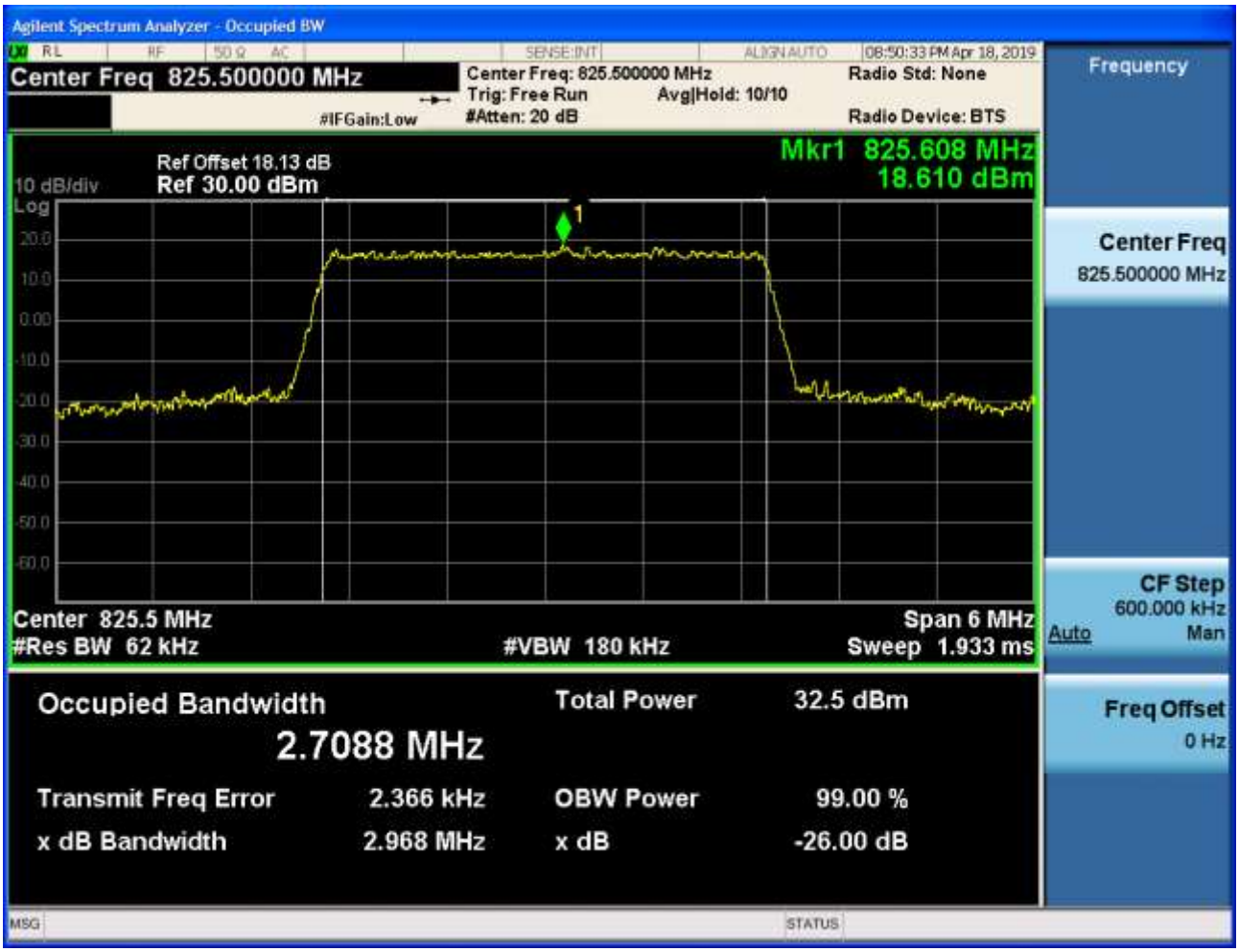
4.1.1.1.1.3.1 Test RB = RB6#0



4.1.1.1.2 Test Bandwidth = 3

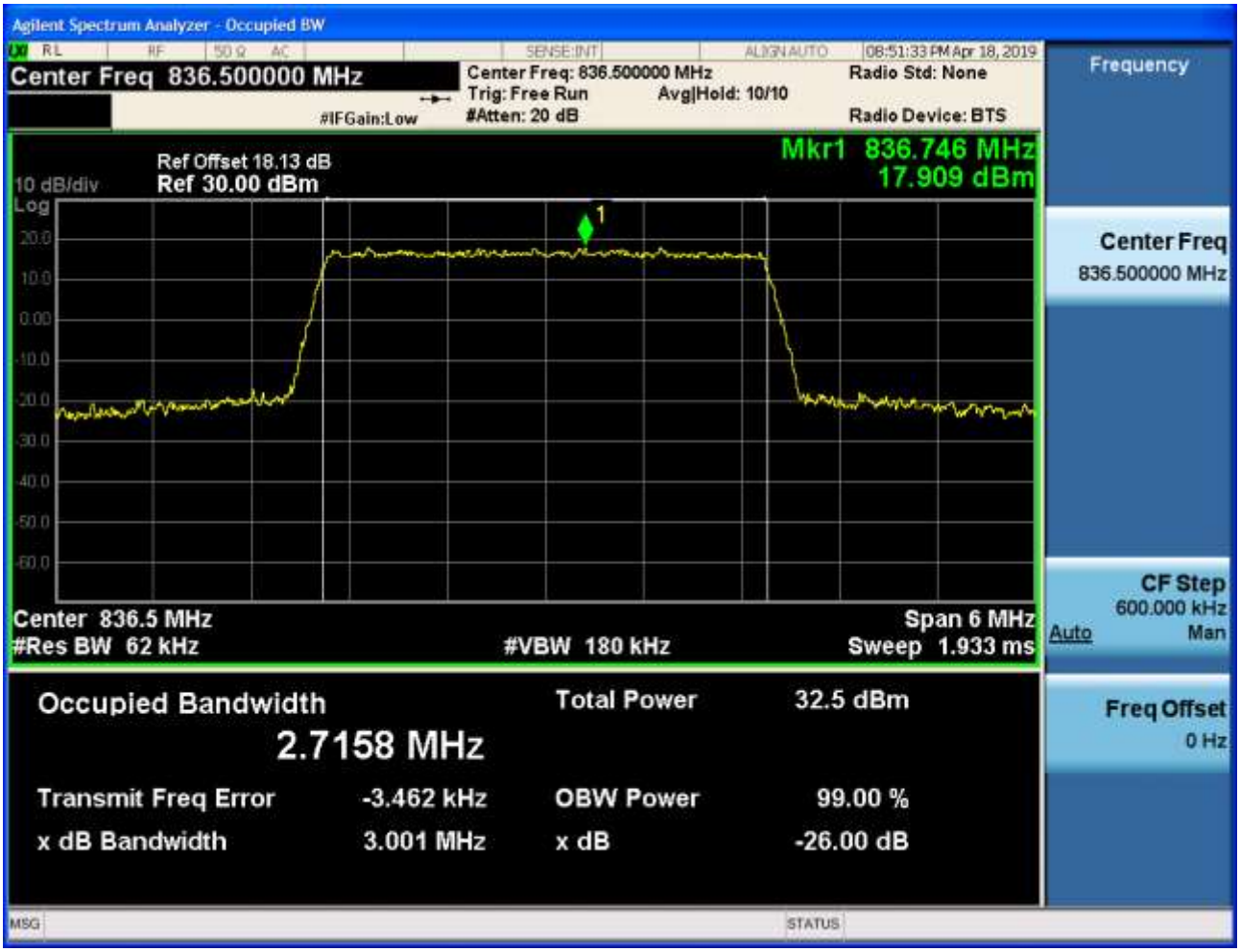
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



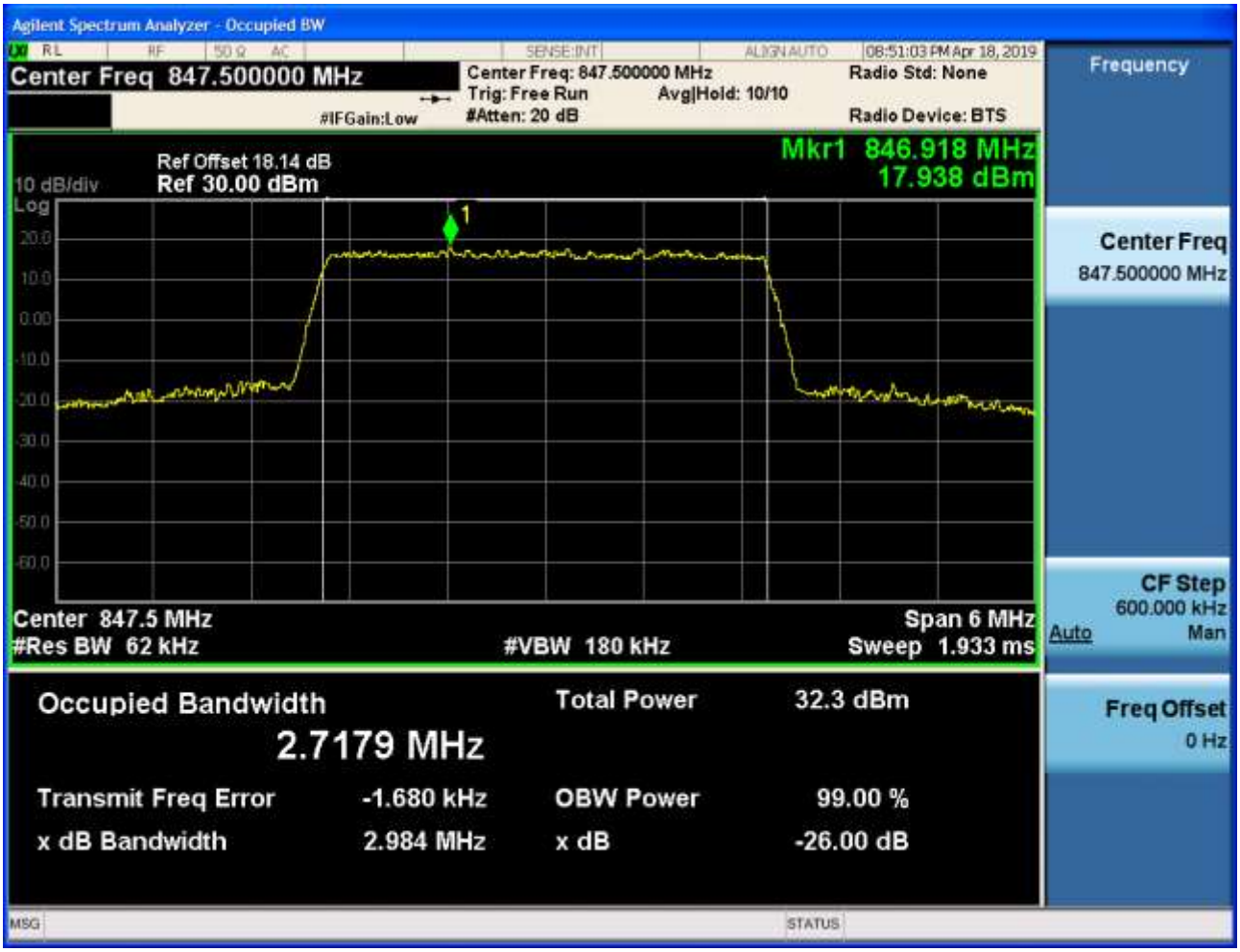
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB15#0



4.1.1.1.2.3 Test Channel = HCH

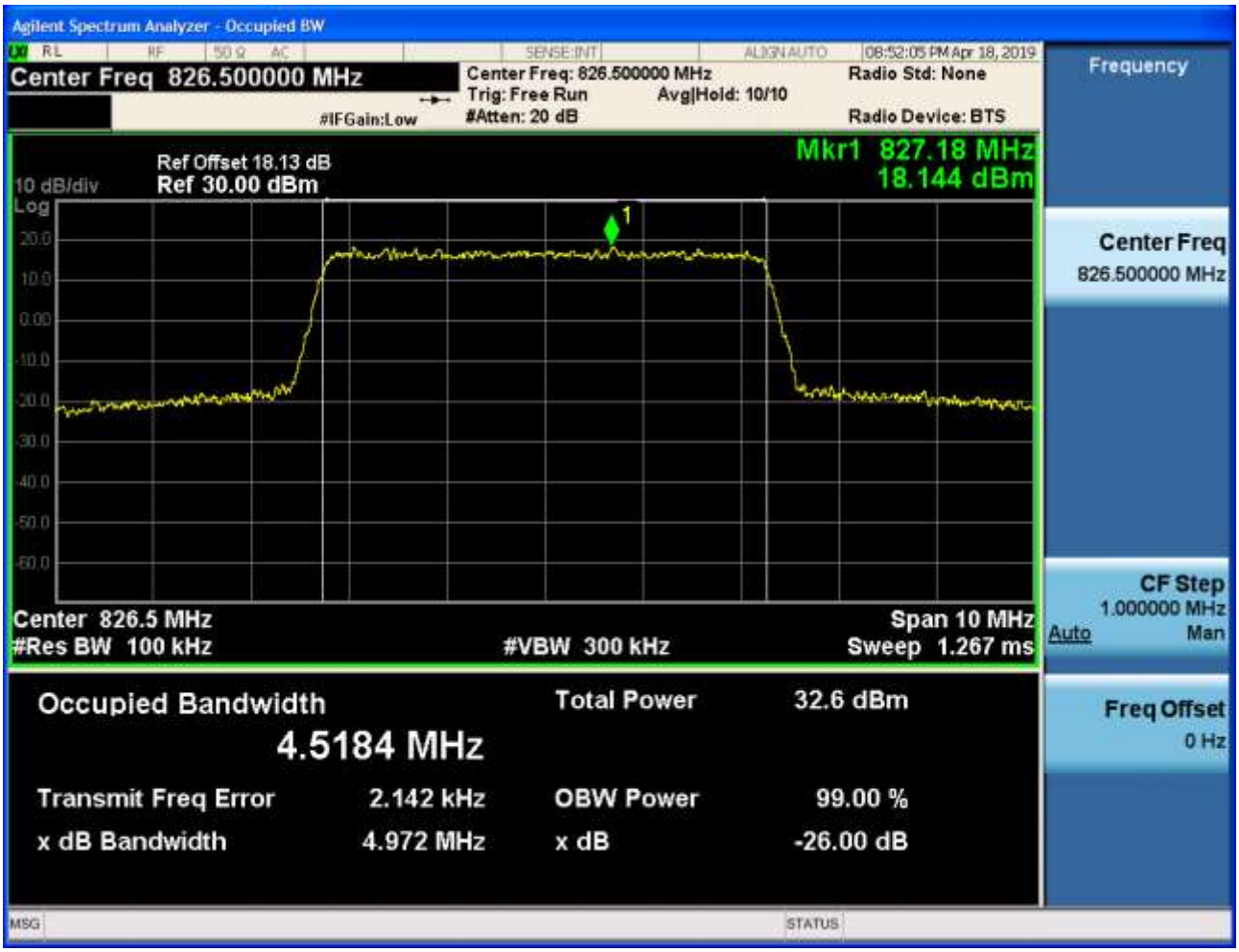
4.1.1.1.2.3.1 Test RB = RB15#0



4.1.1.1.3 Test Bandwidth = 5

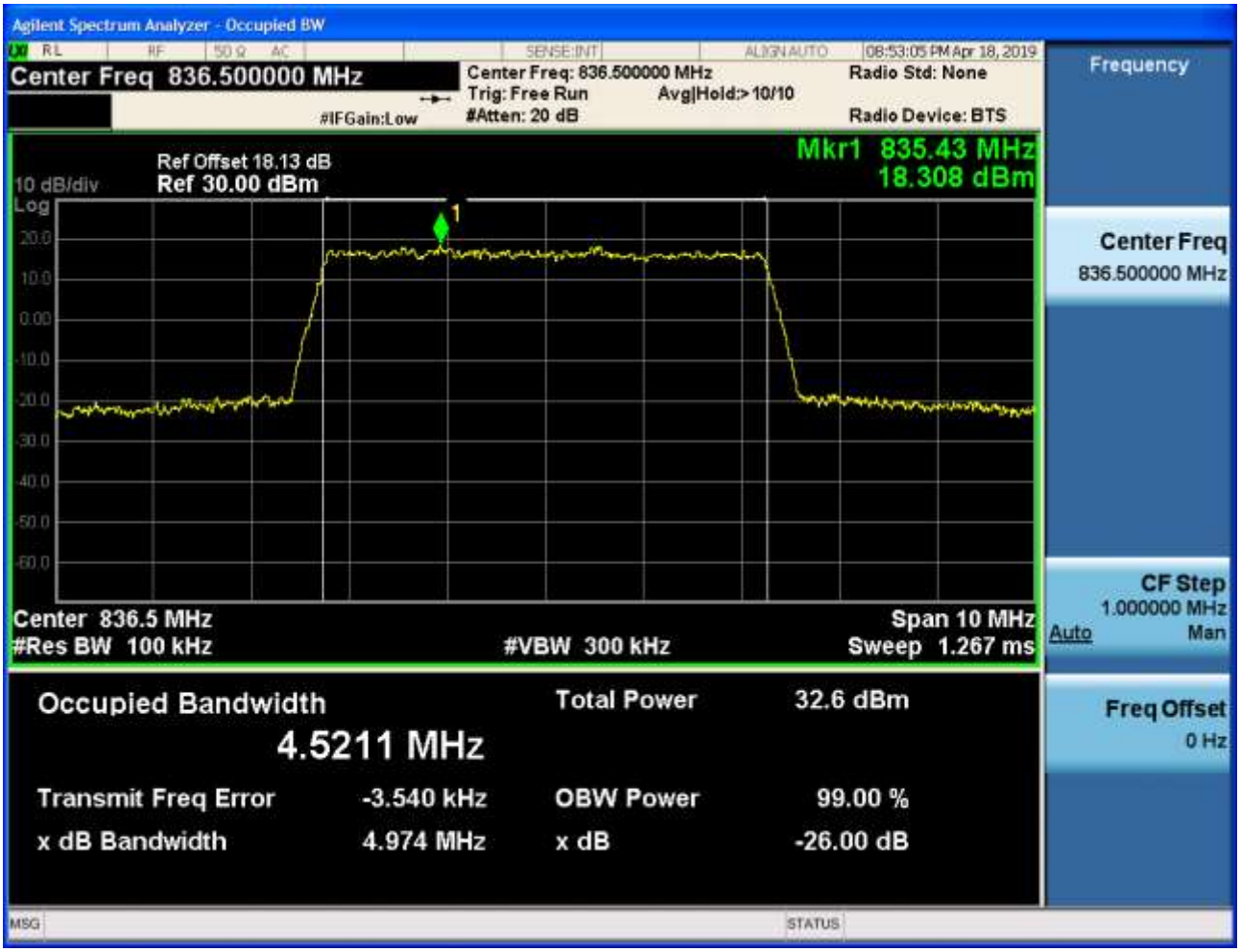
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



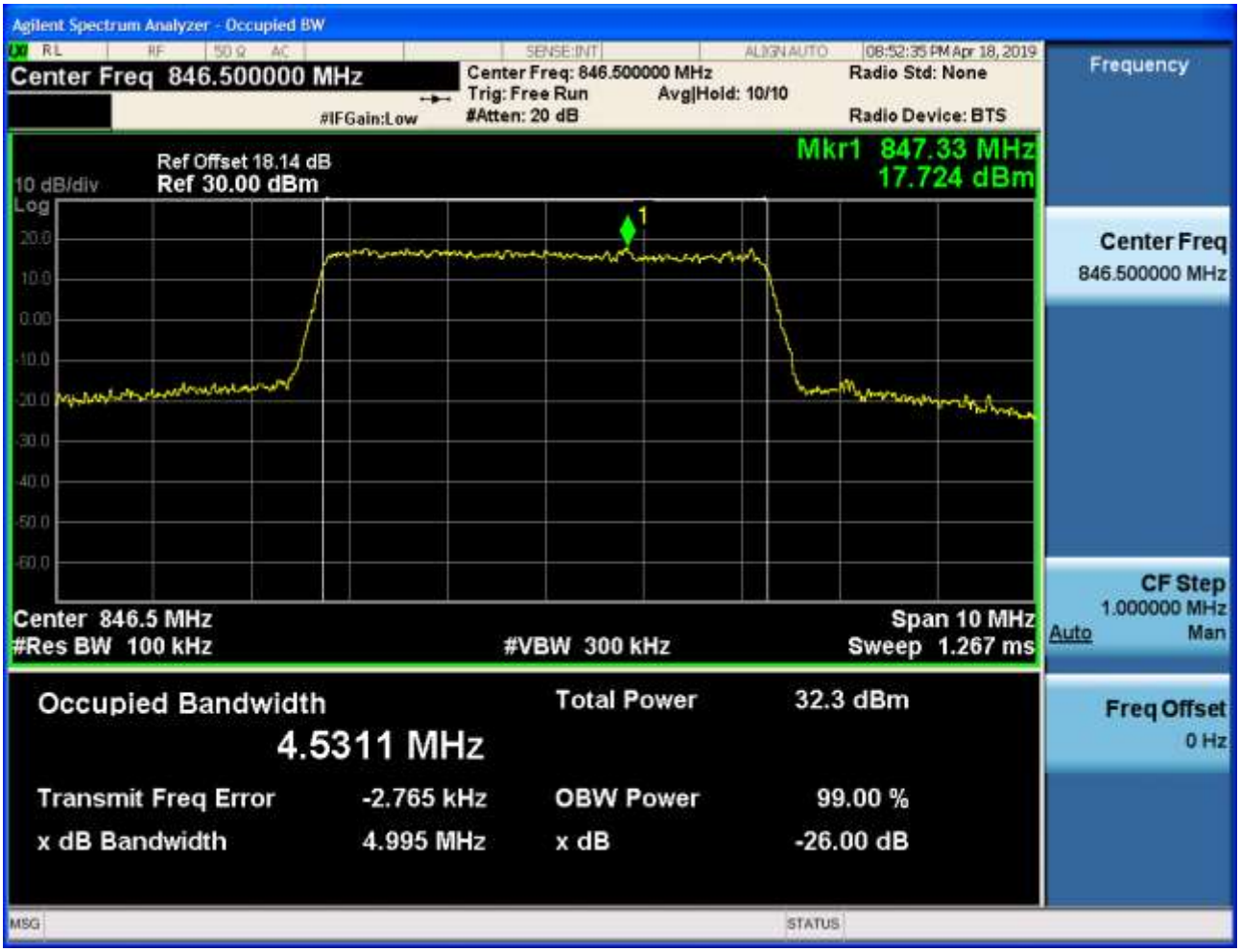
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB25#0



4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0



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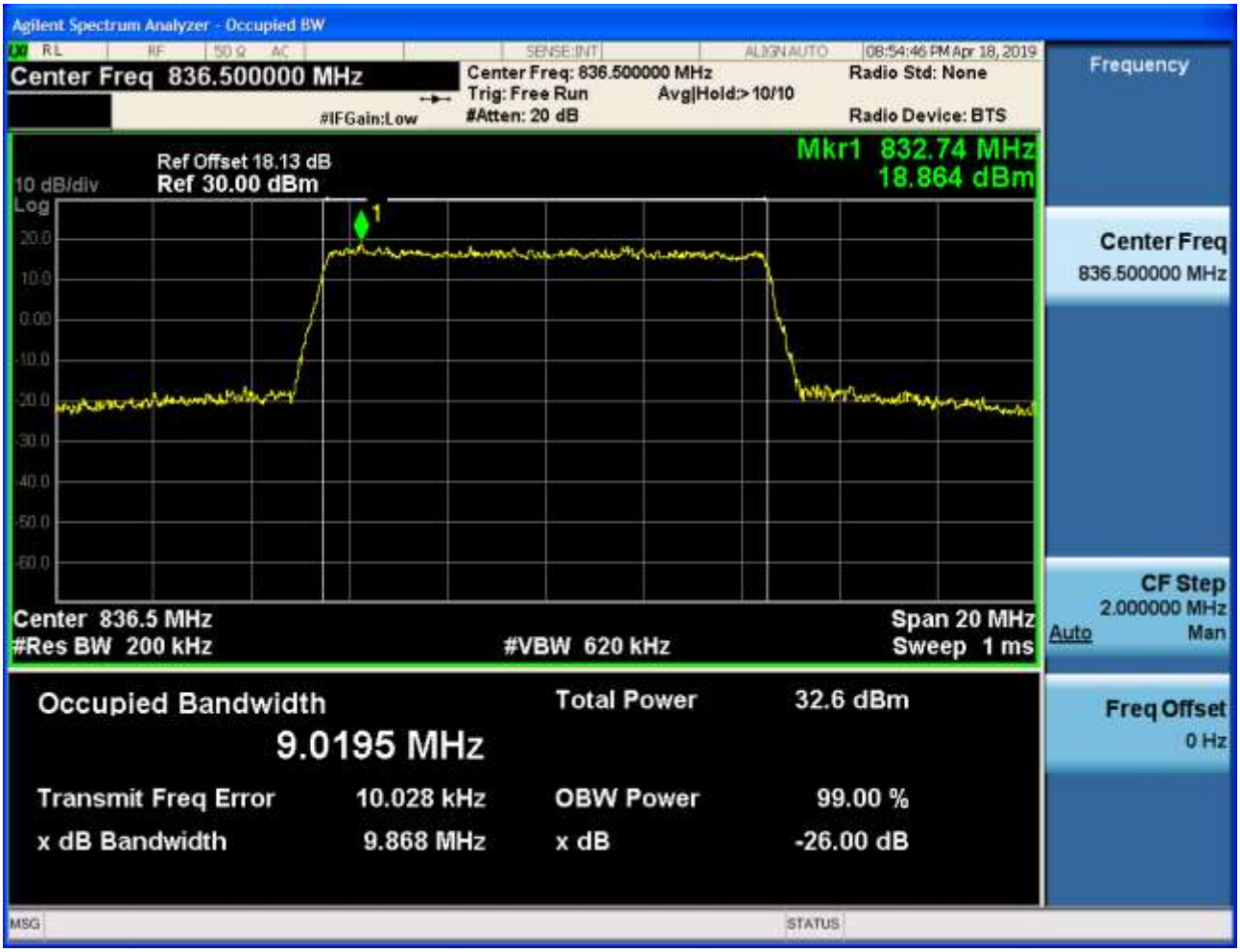
4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0

4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB50#0



4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0

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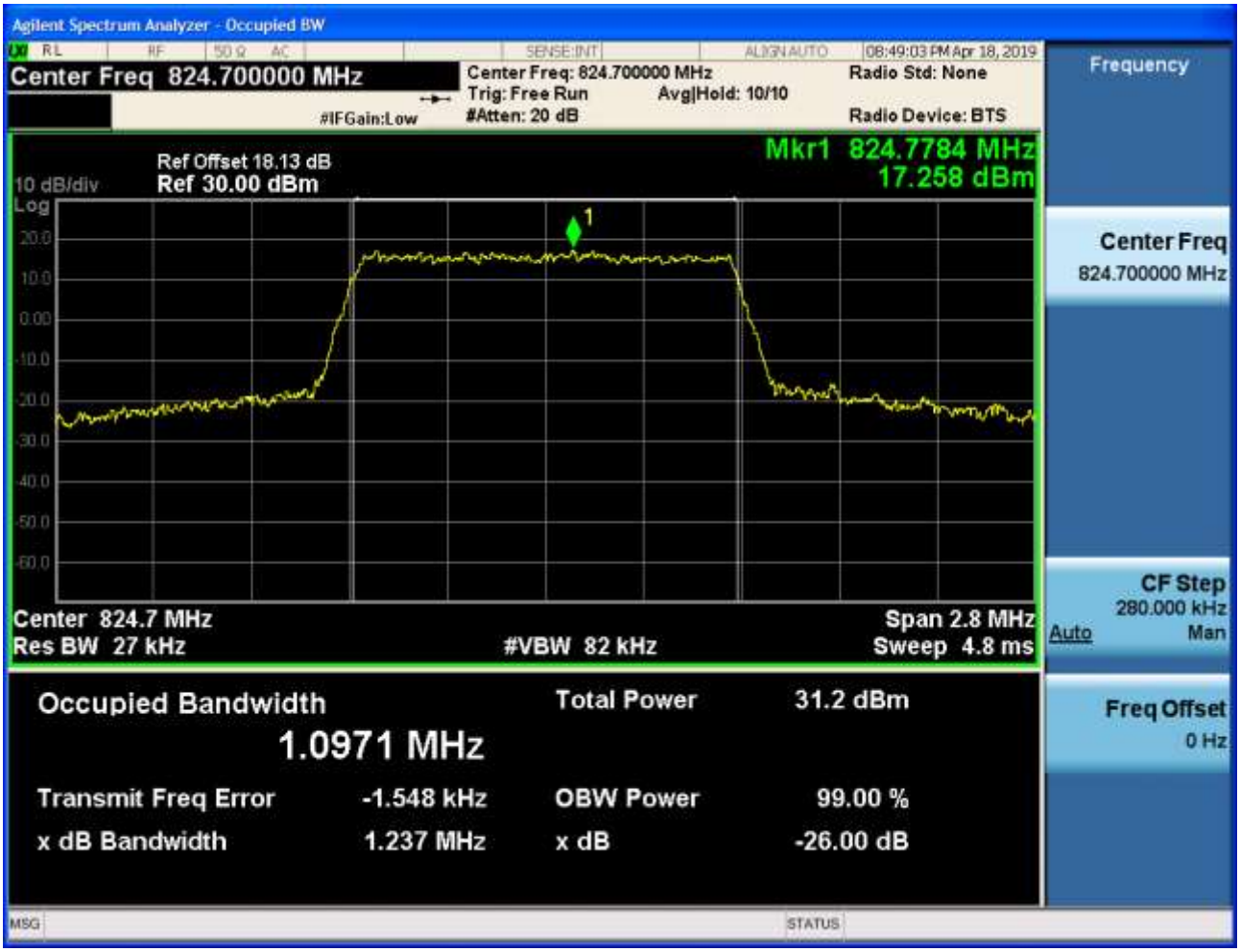
4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

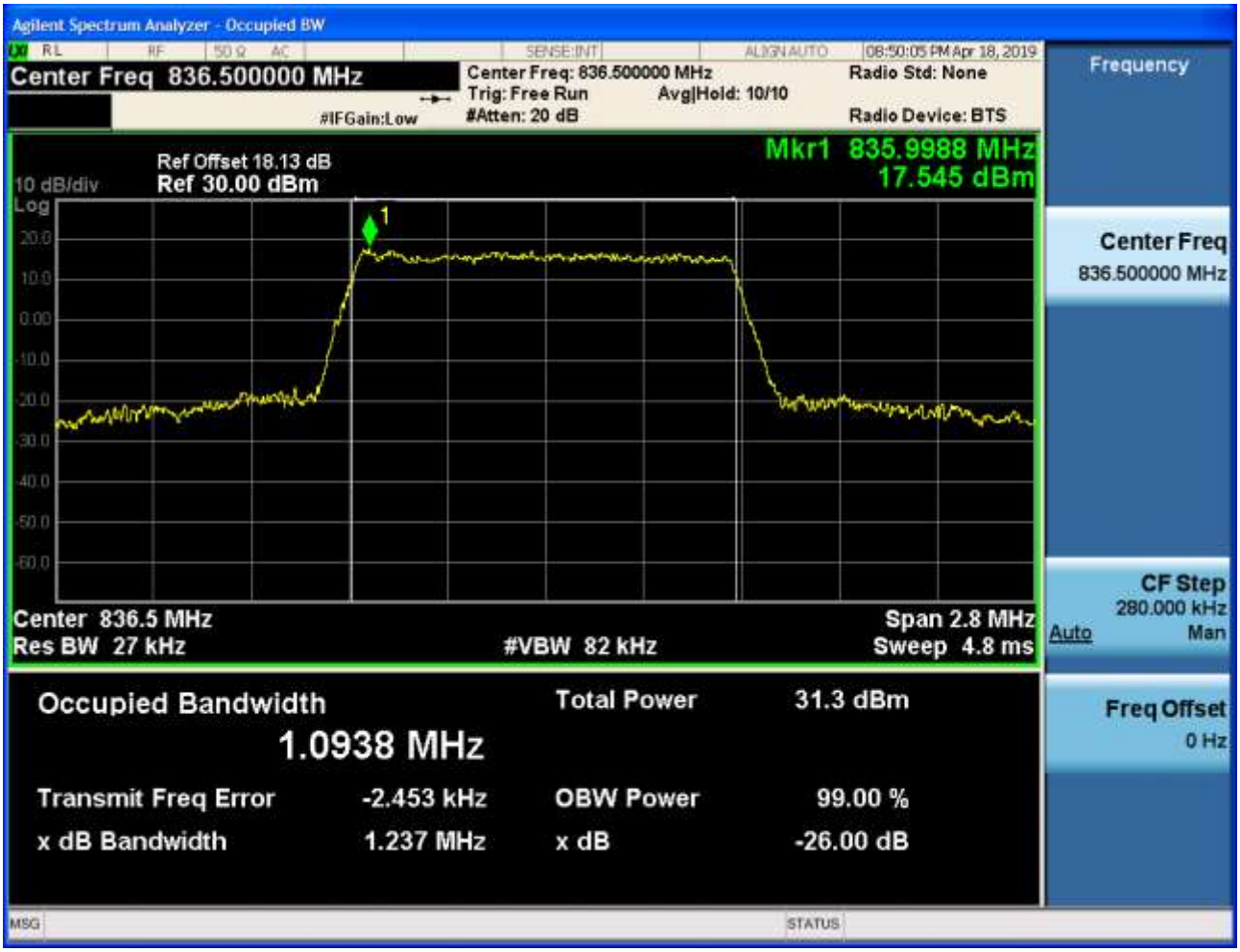
4.1.1.2.1.1 Test Channel = LCH

####### 4.1.1.2.1.1.1 Test RB = RB6#0



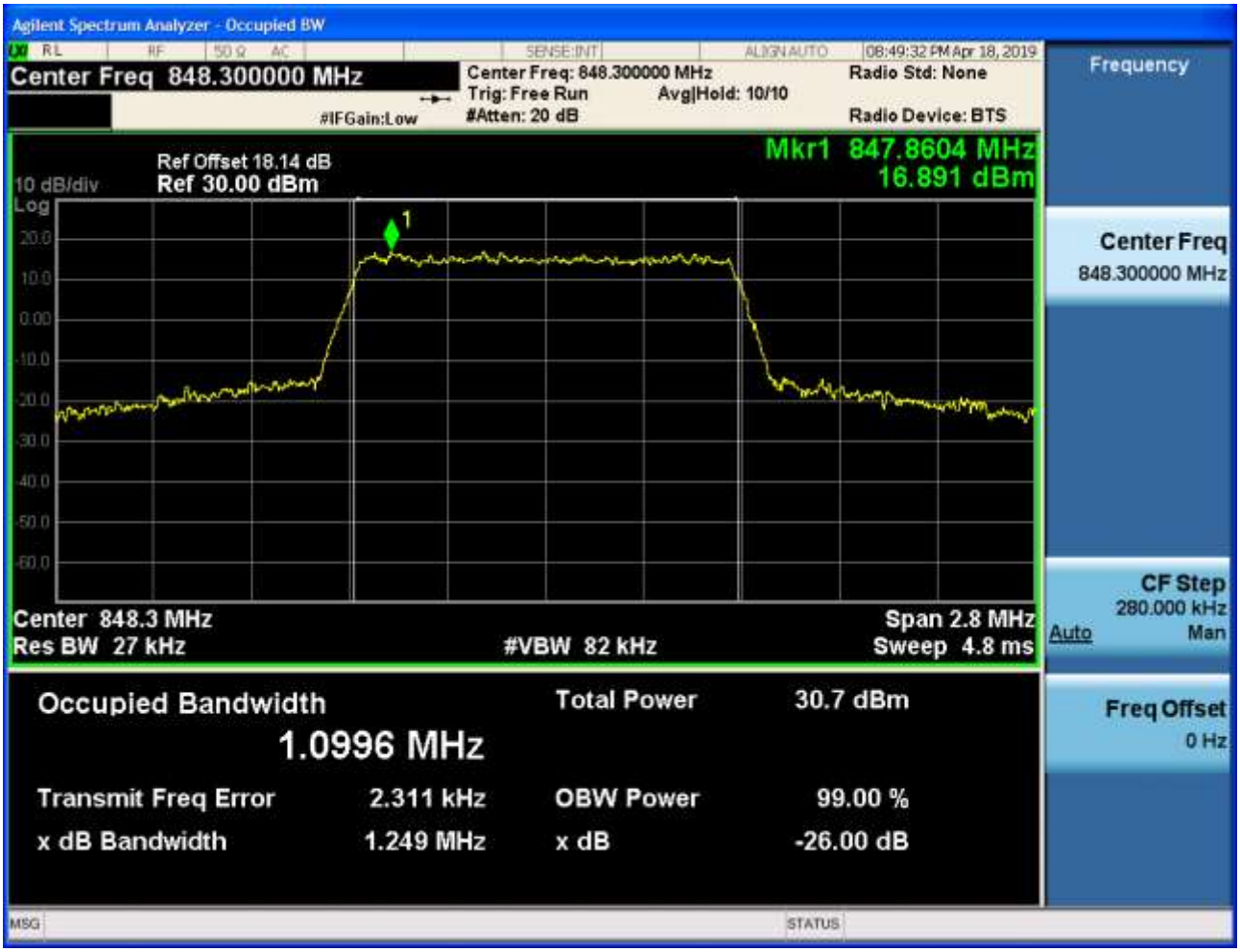
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0



4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0



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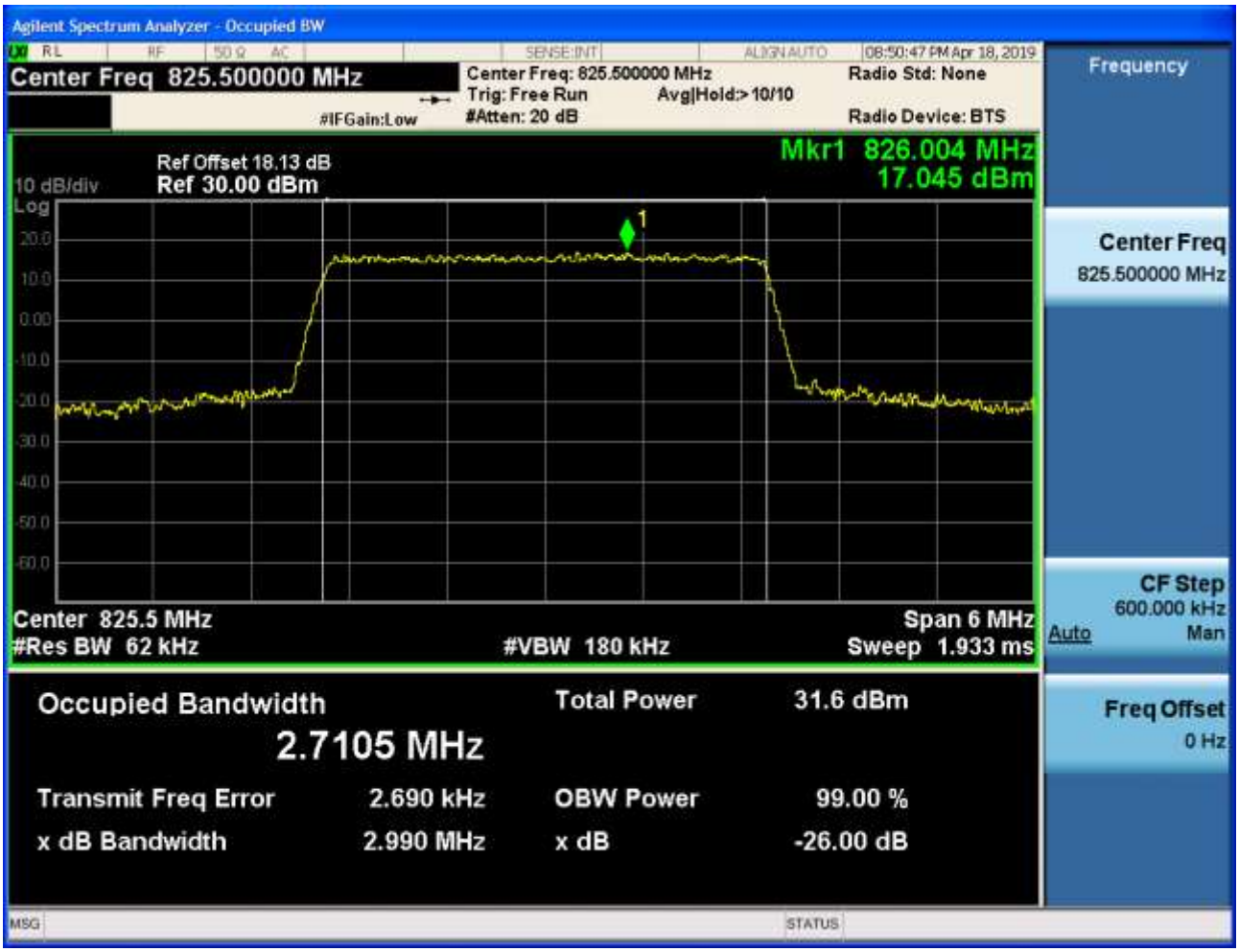
4.1.1.2.2 Test Bandwidth = 3

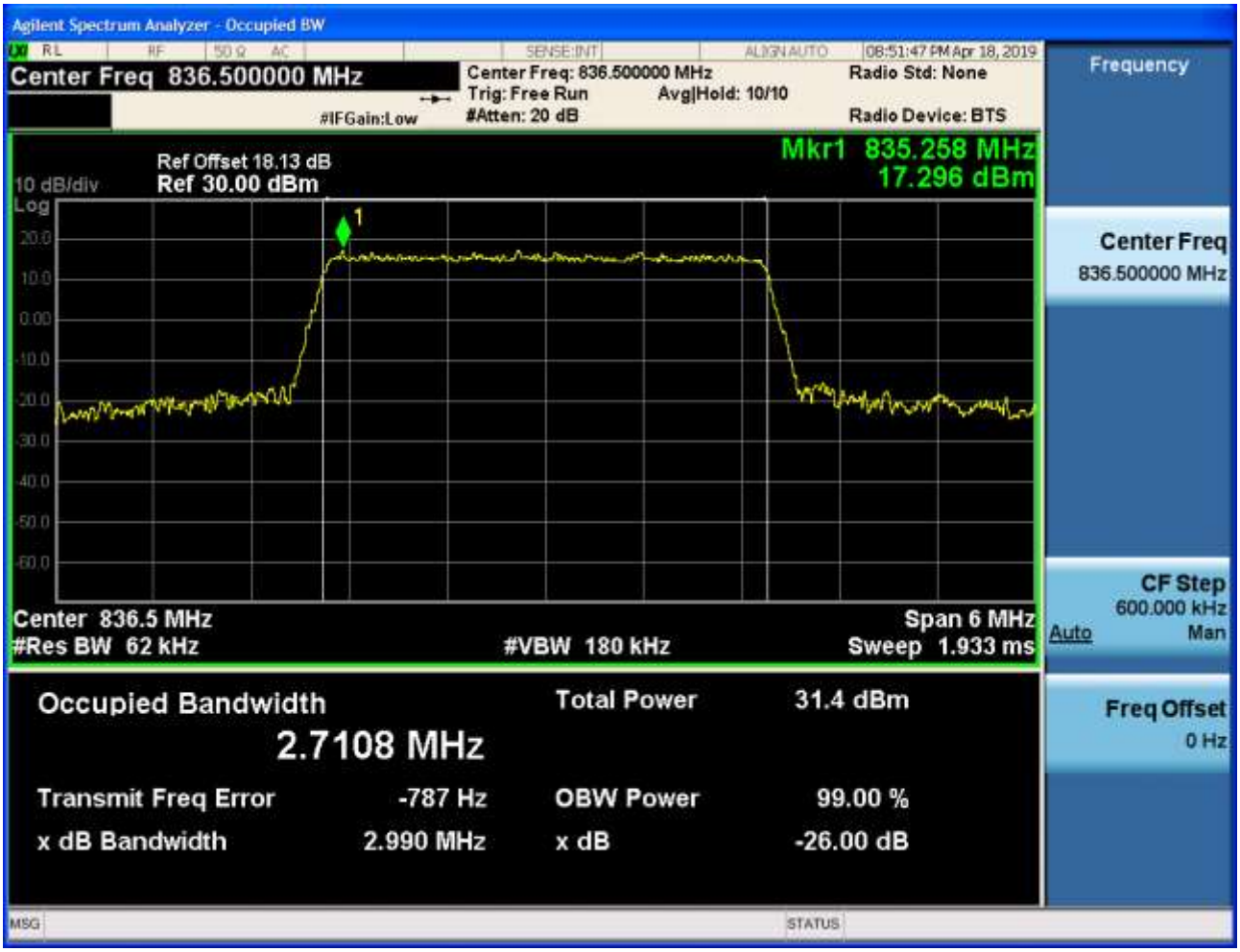
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



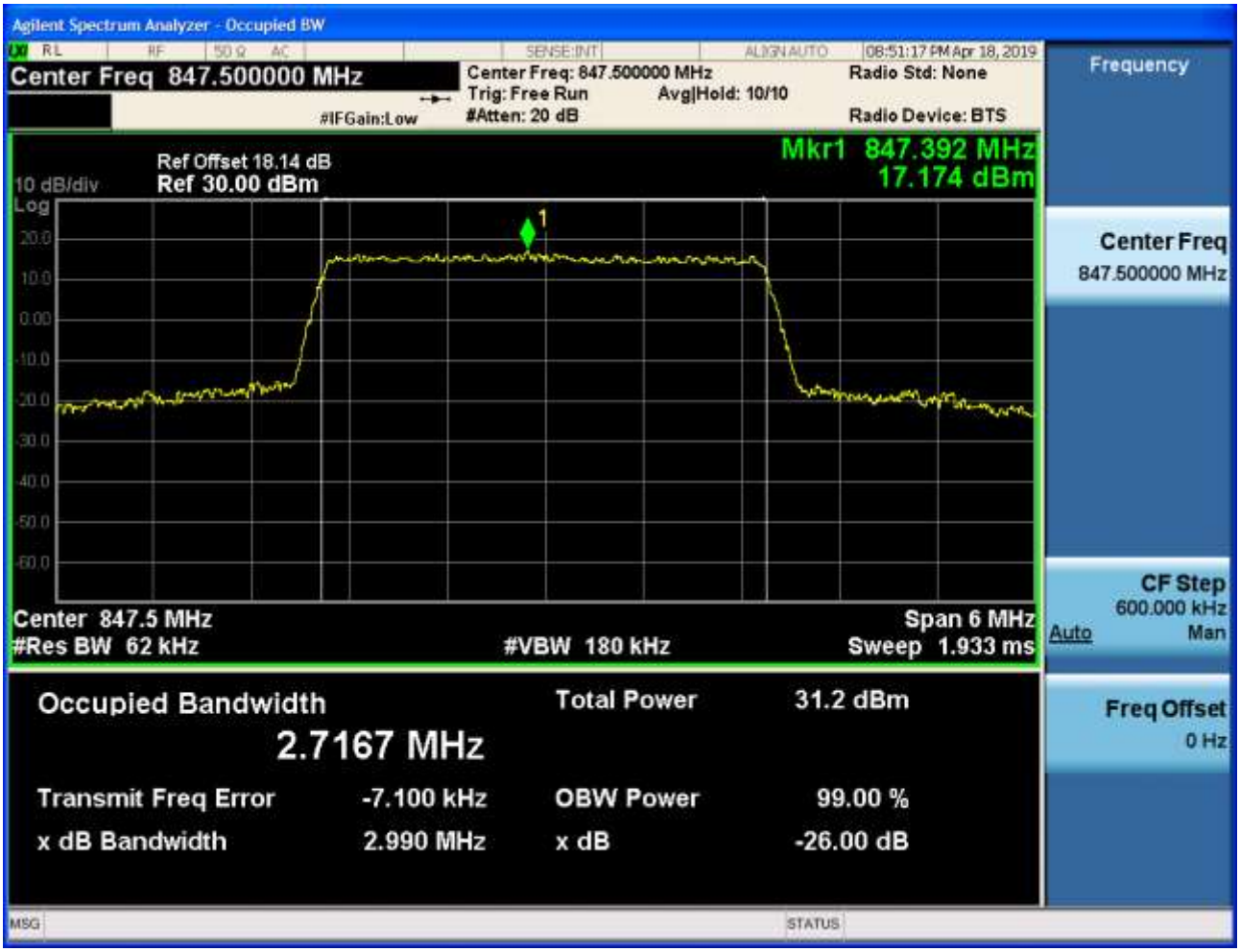
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB15#0



4.1.1.2.2.3 Test Channel = HCH

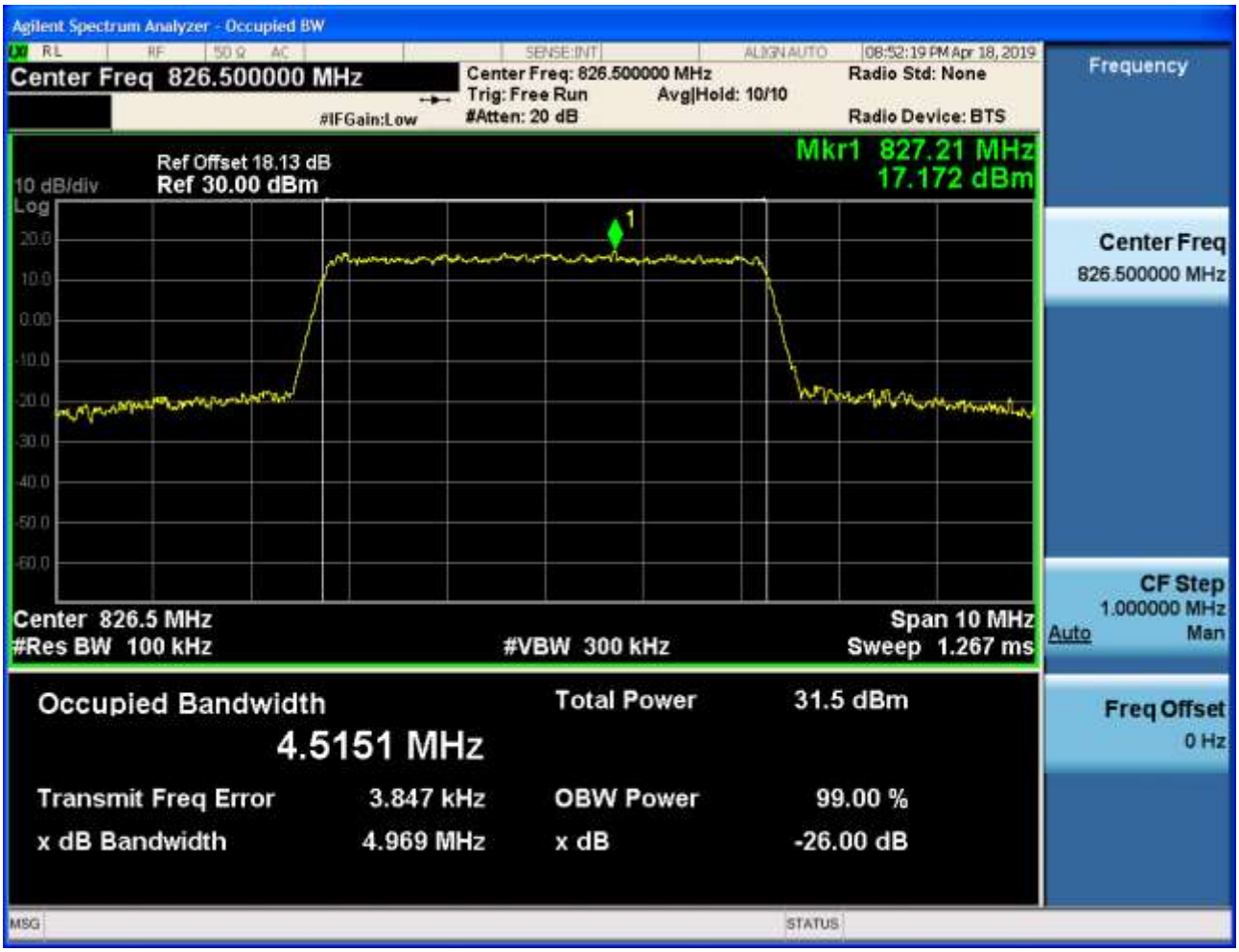
4.1.1.2.2.3.1 Test RB = RB15#0



4.1.1.2.3 Test Bandwidth = 5

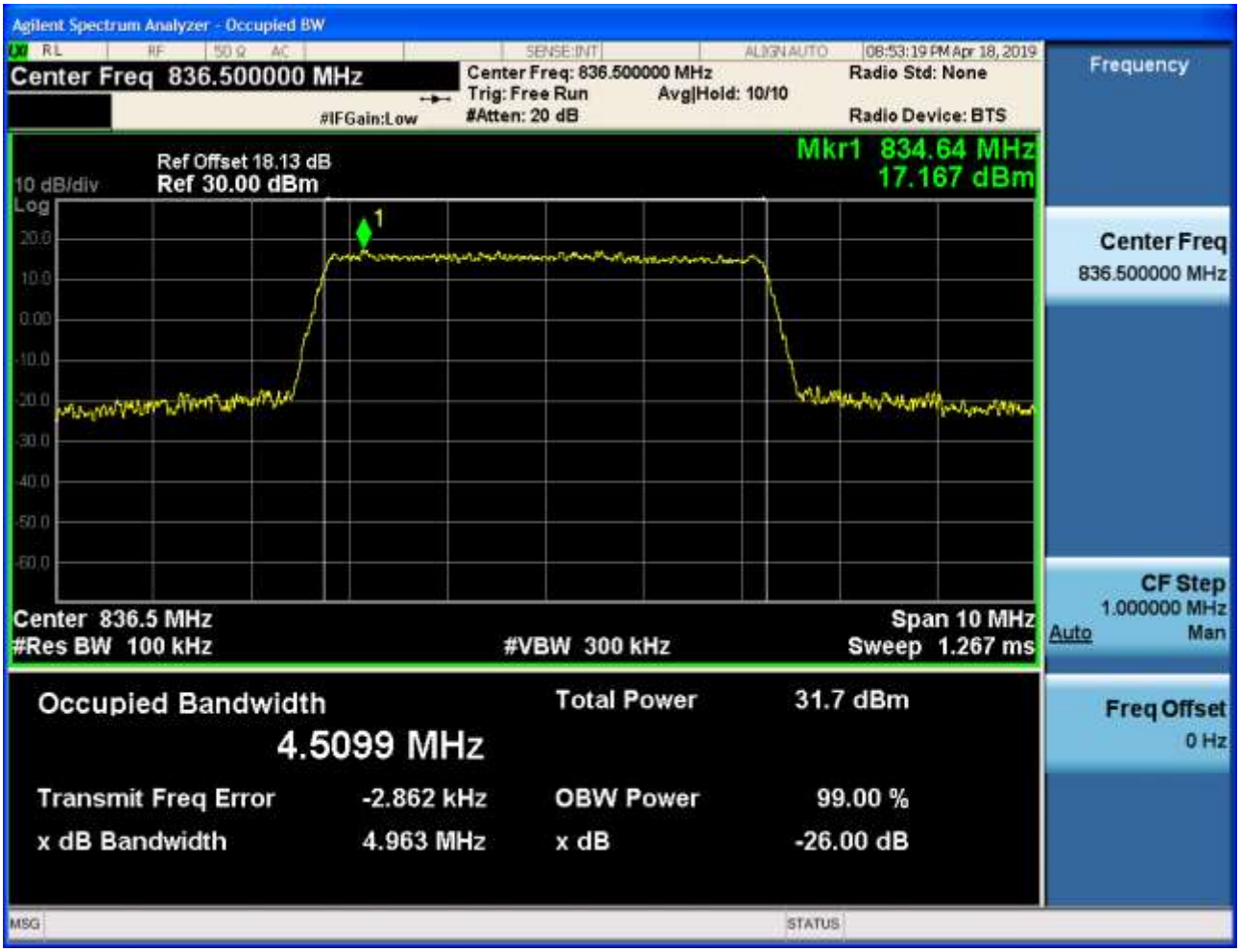
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB25#0



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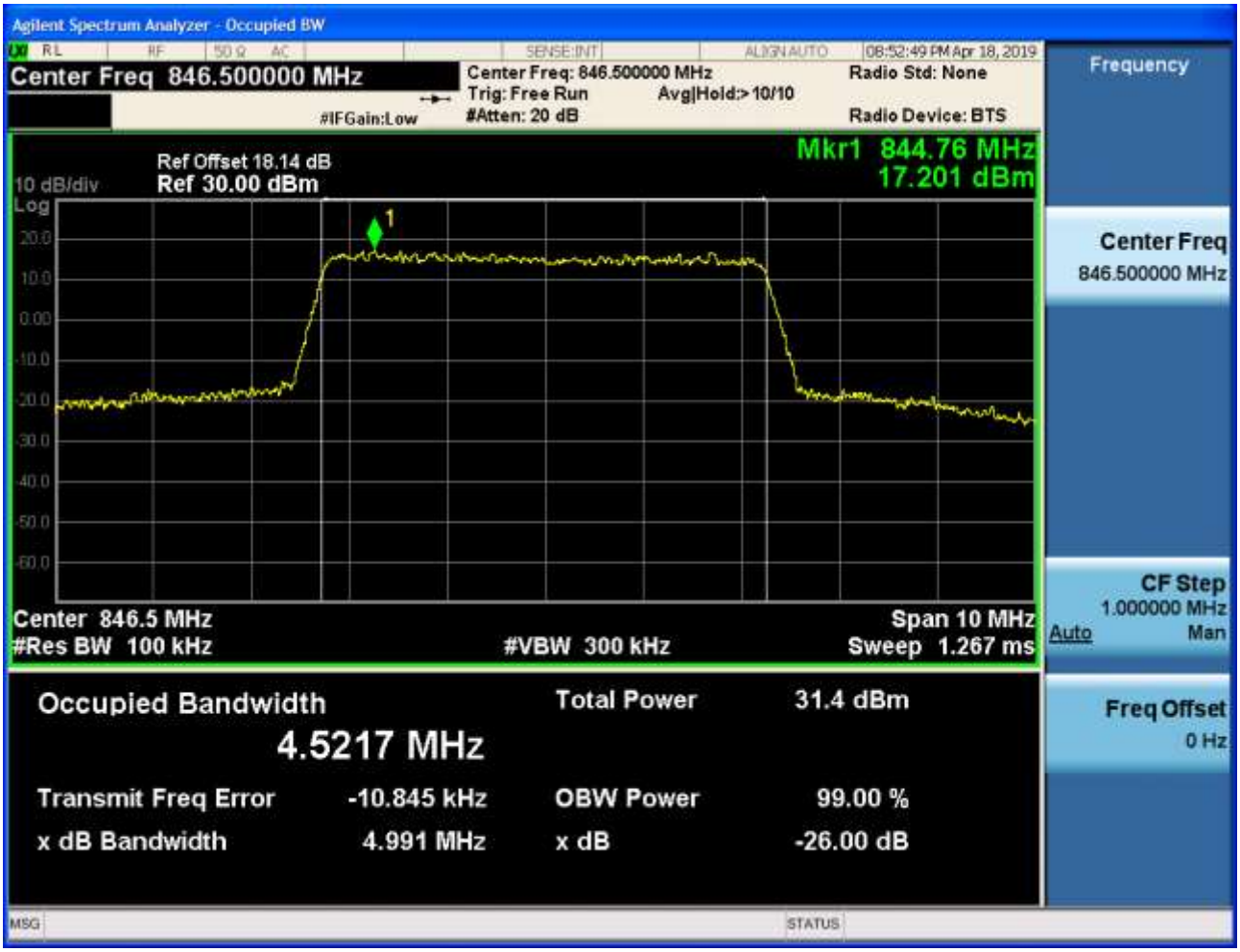
4.1.1.2.3.3 Test Channel = HCH

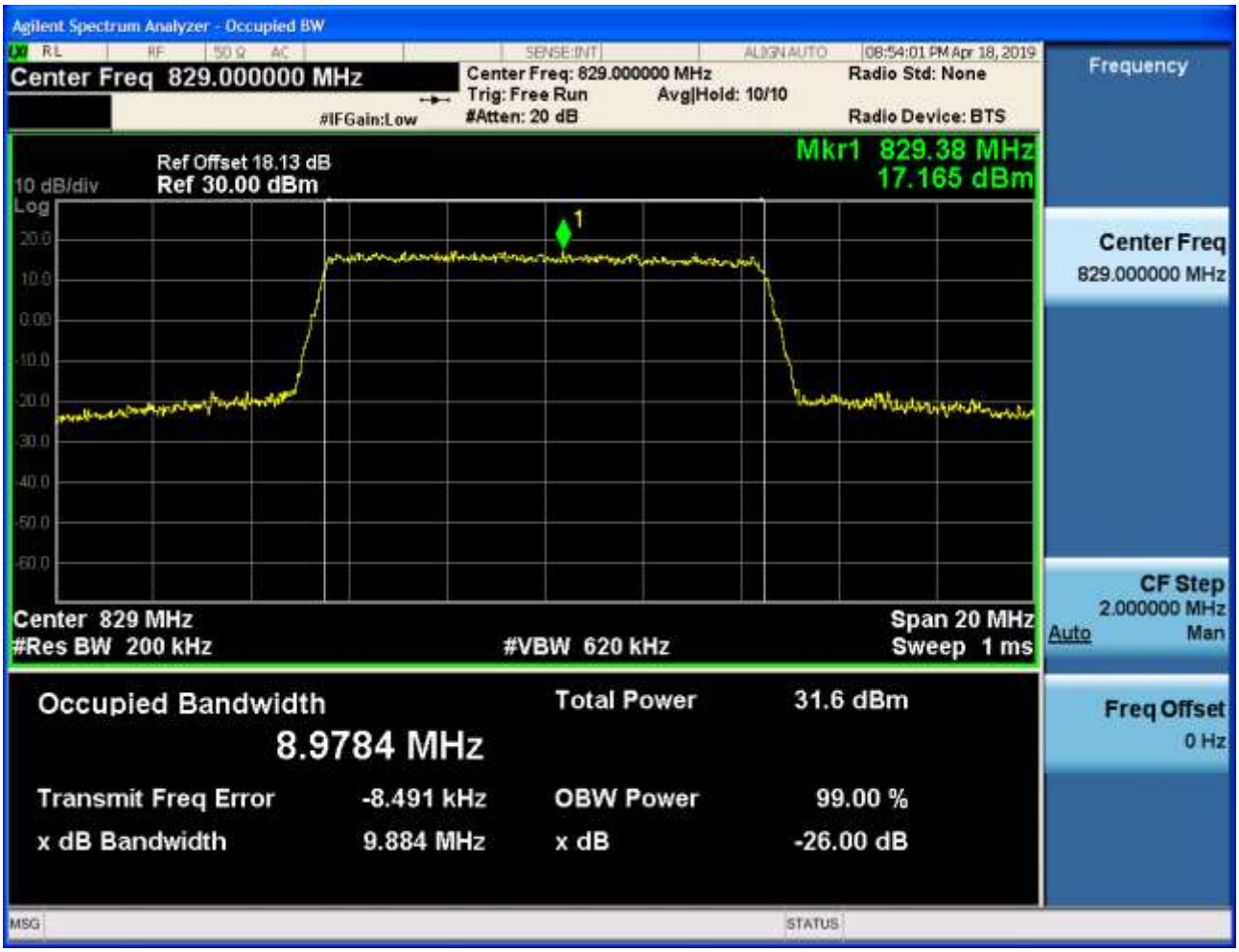
4.1.1.2.3.3.1 Test RB = RB25#0



4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0



4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB50#0

4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0

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5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = Band5

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0

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5.1.1.1.1.2 Test RB = RB1#5

5.1.1.1.1.1.3 Test RB = RB3#2

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5.1.1.1.1.1.4 Test RB = RB6#0

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5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0

5.1.1.1.1.2.2 Test RB = RB1#5

5.1.1.1.1.2.3 Test RB = RB3#2

5.1.1.1.1.2.4 Test RB = RB6#0

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5.1.1.1.2 Test Bandwidth = 3

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0

5.1.1.1.2.1.2 Test RB = RB1#14

5.1.1.1.2.1.3 Test RB = RB8#4

5.1.1.1.2.1.4 Test RB = RB15#0

5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0

5.1.1.1.2.2.2 Test RB = RB1#14

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5.1.1.1.2.2.3 Test RB = RB8#4

5.1.1.1.2.2.4 Test RB = RB15#0

5.1.1.1.3 Test Bandwidth = 5

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0

5.1.1.1.3.1.2 Test RB = RB1#24

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5.1.1.1.3.1.3 Test RB = RB12#6

5.1.1.1.3.1.4 Test RB = RB25#0

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5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0

5.1.1.1.3.2.2 Test RB = RB1#24

5.1.1.1.3.2.3 Test RB = RB12#6

5.1.1.1.3.2.4 Test RB = RB25#0

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5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0

5.1.1.1.4.1.2 Test RB = RB1#49

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5.1.1.1.4.1.3 Test RB = RB25#13

5.1.1.1.4.1.4 Test RB = RB50#0

5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0

5.1.1.1.4.2.2 Test RB = RB1#49

5.1.1.1.4.2.3 Test RB = RB25#13

5.1.1.1.4.2.4 Test RB = RB50#0

5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

####### 5.1.1.2.1.1.1 Test RB = RB1#0

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5.1.1.2.1.1.2 Test RB = RB1#5

5.1.1.2.1.1.3 Test RB = RB3#2

5.1.1.2.1.1.4 Test RB = RB6#0

5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0

5.1.1.2.1.2.2 Test RB = RB1#5

5.1.1.2.1.2.3 Test RB = RB3#2

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5.1.1.2.1.2.4 Test RB = RB6#0

5.1.1.2.2 Test Bandwidth = 3

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0

5.1.1.2.2.1.2 Test RB = RB1#14

5.1.1.2.2.1.3 Test RB = RB8#4

5.1.1.2.2.1.4 Test RB = RB15#0

5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0

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5.1.1.2.2.2 Test RB = RB1#14

5.1.1.2.2.3 Test RB = RB8#4

5.1.1.2.2.2.4 Test RB = RB15#0

5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0

5.1.1.2.3.1.2 Test RB = RB1#24

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5.1.1.2.3.1.3 Test RB = RB12#6

5.1.1.2.3.1.4 Test RB = RB25#0

5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0

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5.1.1.2.3.2.2 Test RB = RB1#24

5.1.1.2.3.2.3 Test RB = RB12#6

5.1.1.2.3.2.4 Test RB = RB25#0

5.1.1.2.4 Test Bandwidth = 10

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0

5.1.1.2.4.1.2 Test RB = RB1#49

5.1.1.2.4.1.3 Test RB = RB25#13

5.1.1.2.4.1.4 Test RB = RB50#0

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5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0

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5.1.1.2.4.2.2 Test RB = RB1#49

5.1.1.2.4.2.3 Test RB = RB25#13

5.1.1.2.4.2.4 Test RB = RB50#0

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: 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.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = Band5

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

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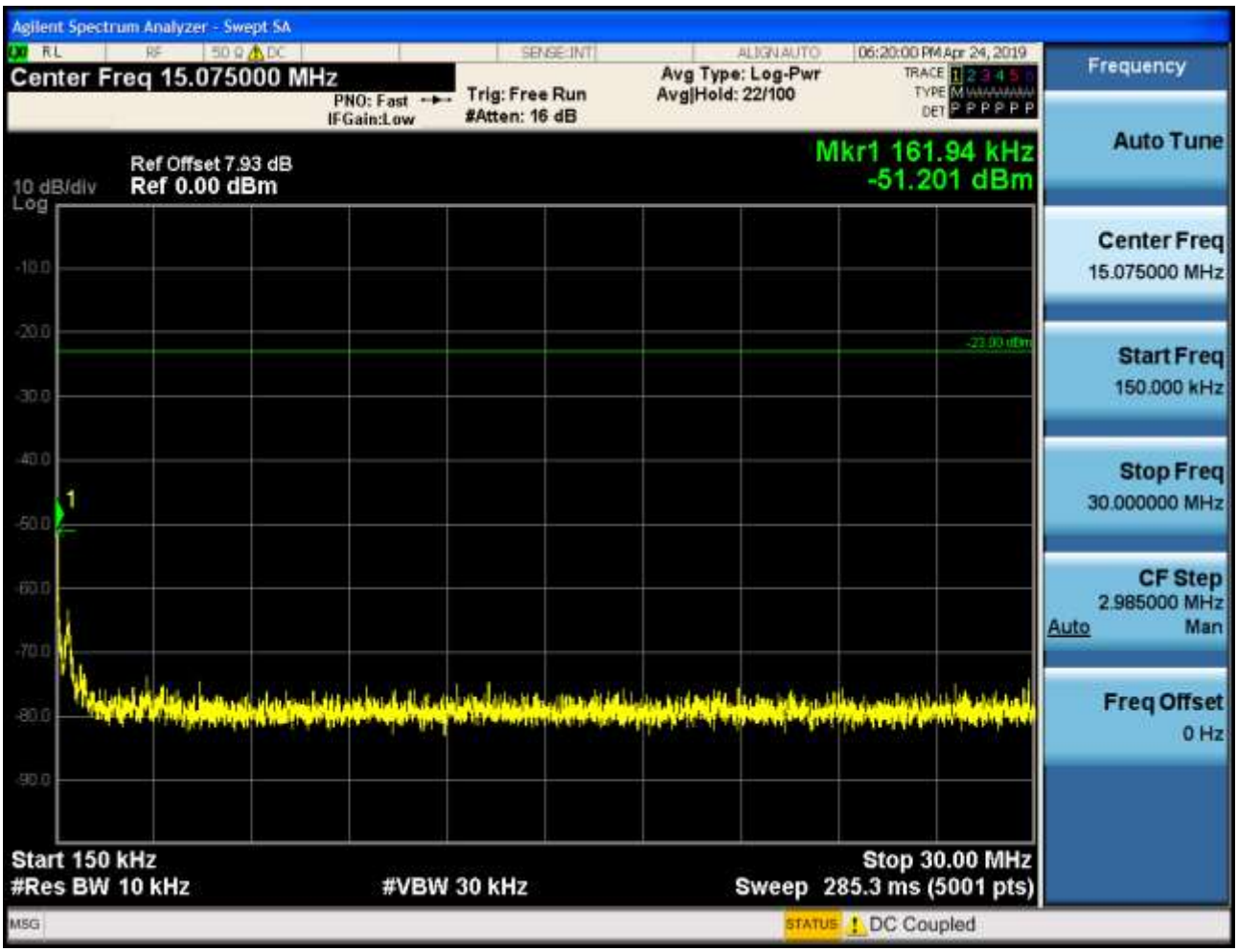
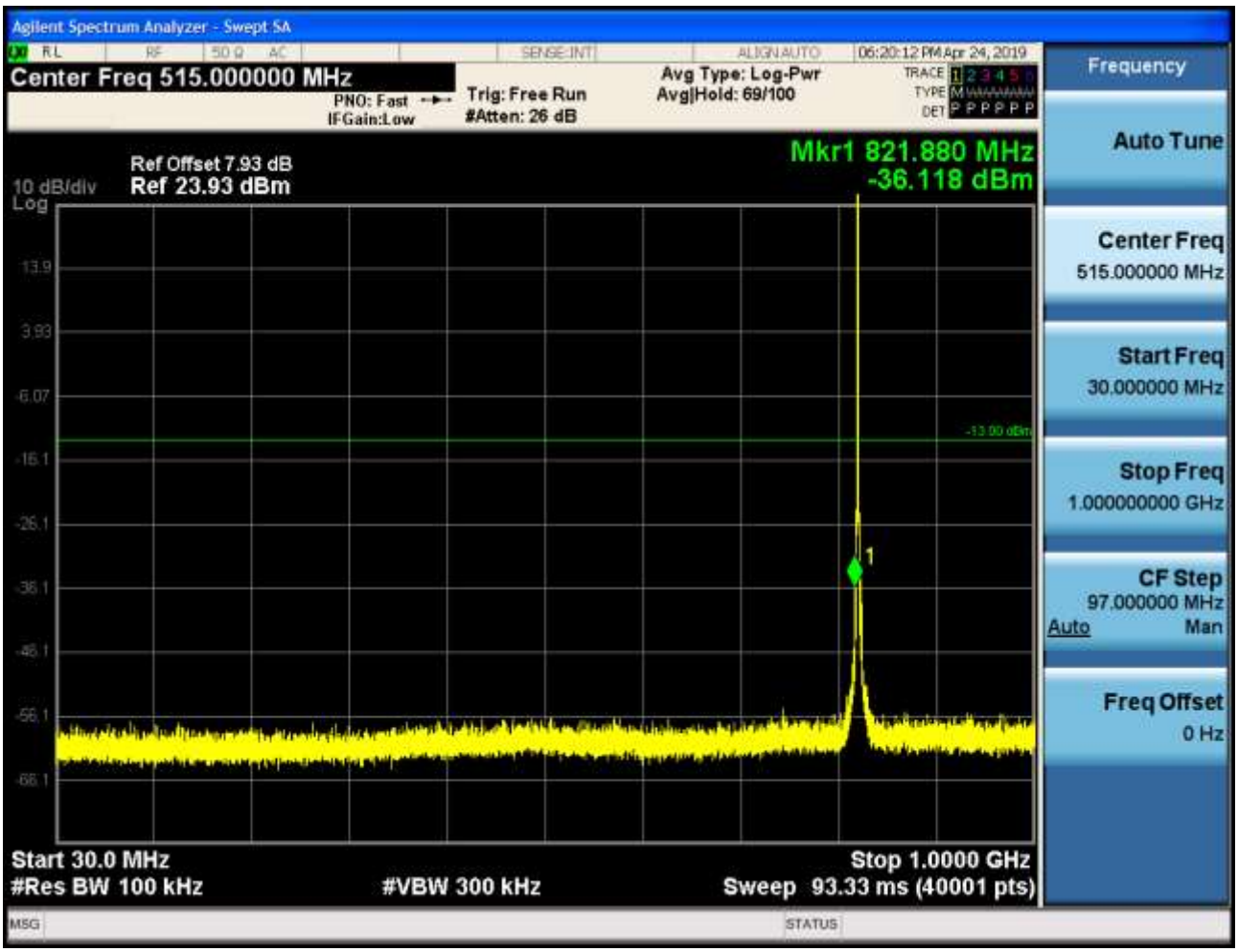
Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: Log-Pwr
Avg|Hold: 44/100
06:19:50 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 90.921 kHz
-55.043 dBm
-33.00 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz
Stop 150.00 kHz
Sweep 134.8 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

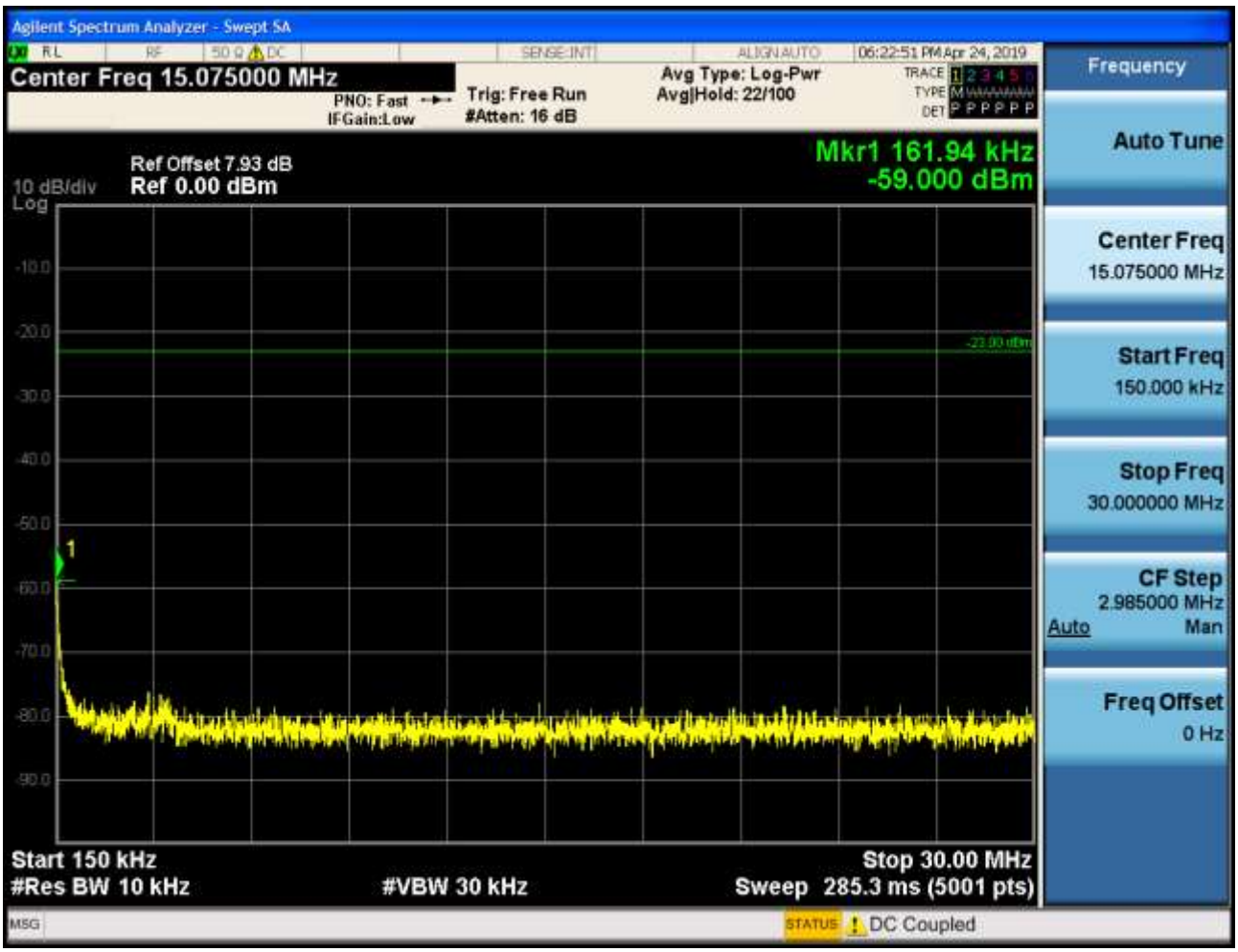

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
06:20:00 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 161.94 kHz
-51.201 dBm
-23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

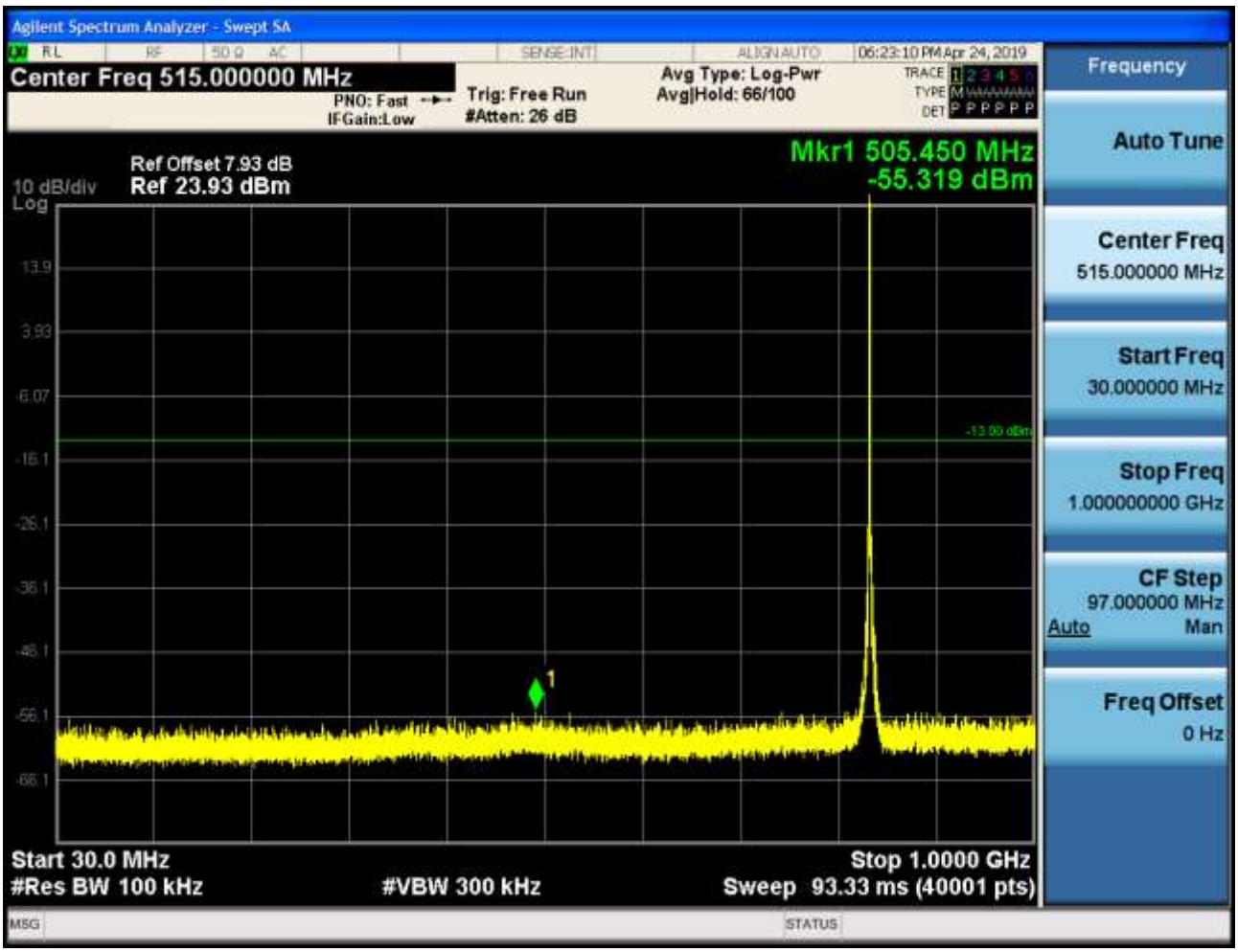

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 69/100
06:20:12 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 821.880 MHz
-36.118 dBm
13.9
3.93
-6.07
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Agilent Spectrum Analyzer - Swept SA
Center Freq 6.875000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 53/100
06:20:21 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 1.648 89 GHz
-31.721 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 12.750 GHz
Sweep 21.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
6.875000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

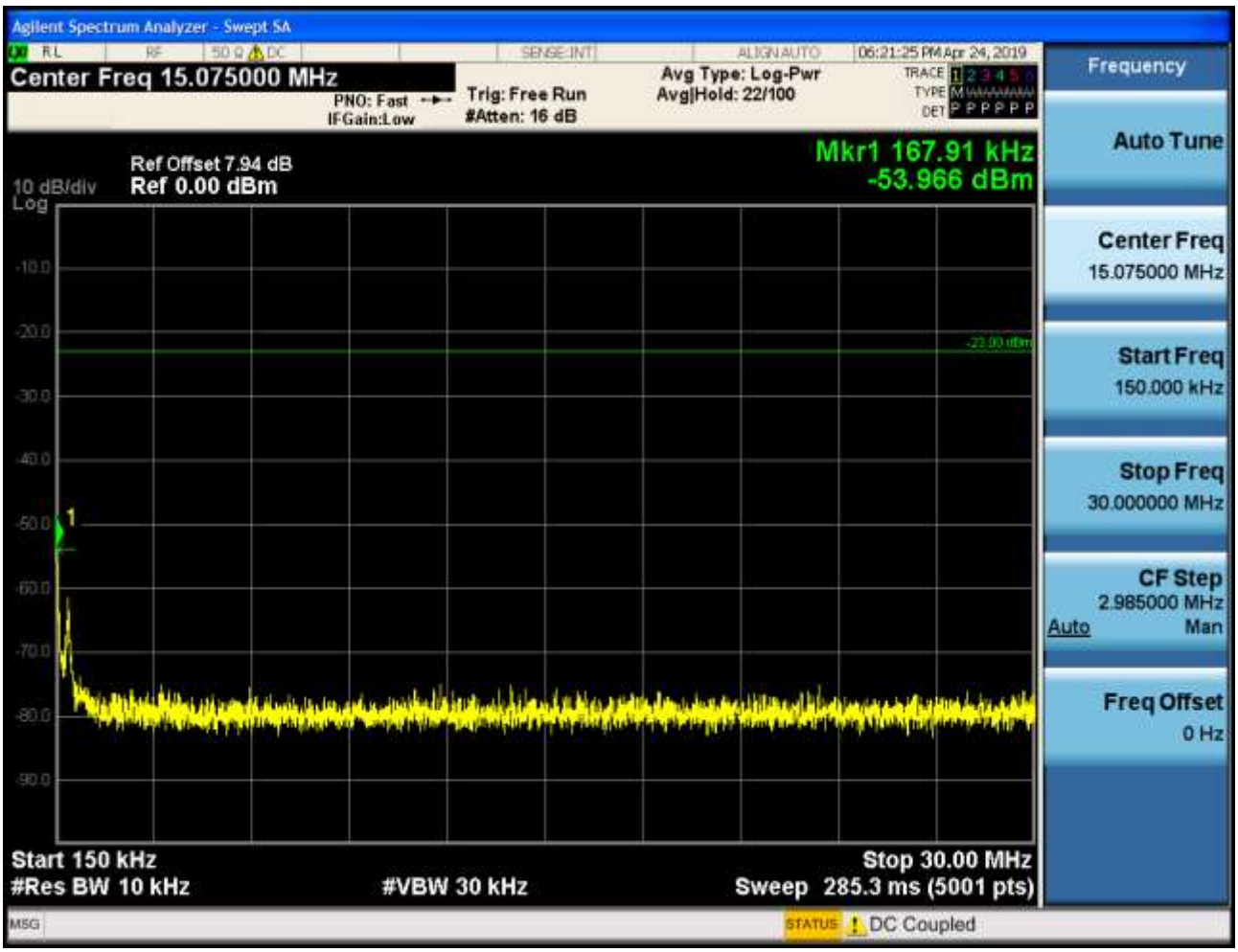

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
06:22:51 PM Apr 24, 2019
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 7.93 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 161.94 kHz
-59.000 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.00 dBm
1
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

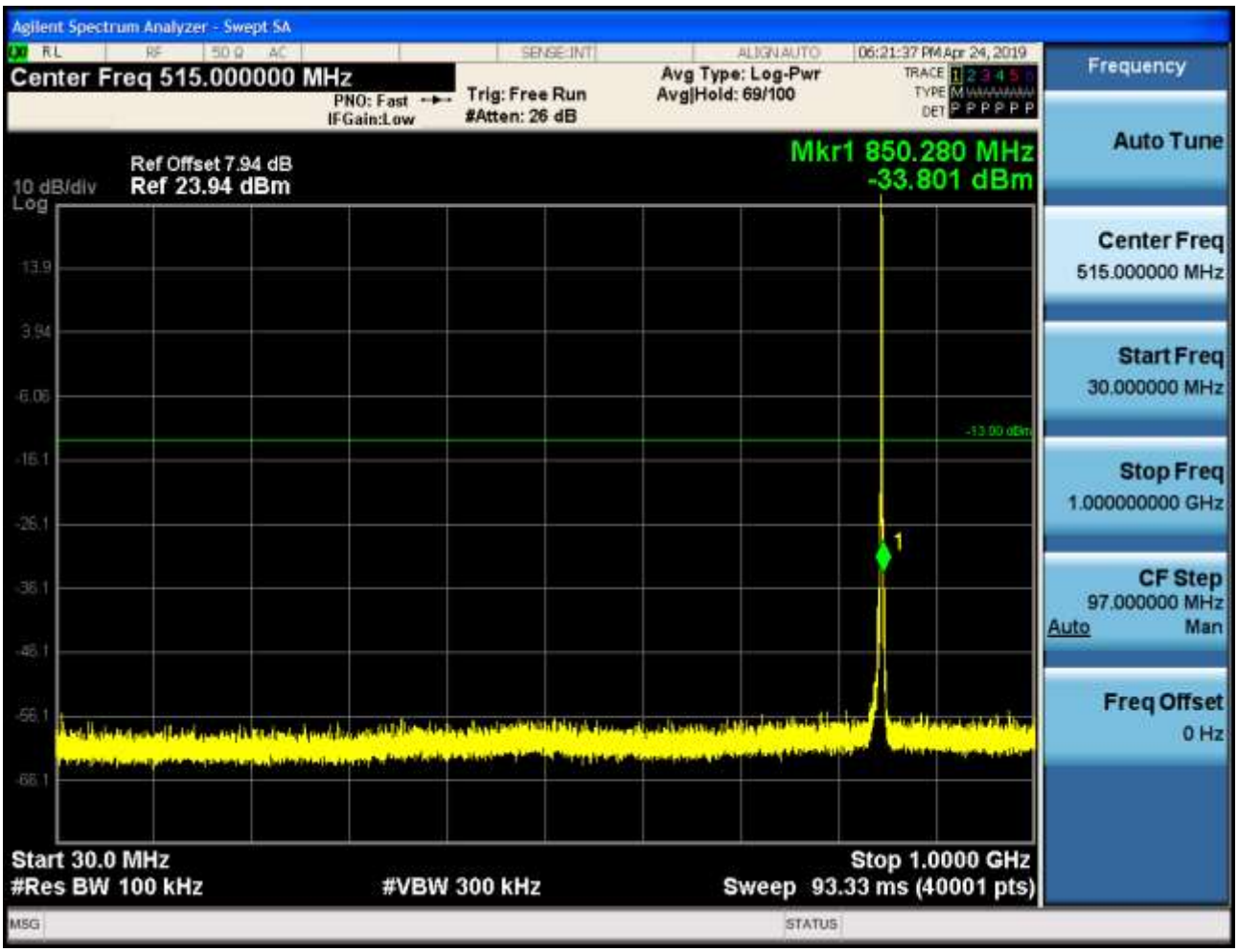

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 66/100
06:23:10 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 505.450 MHz
-55.319 dBm
13.9
3.93
-6.07
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

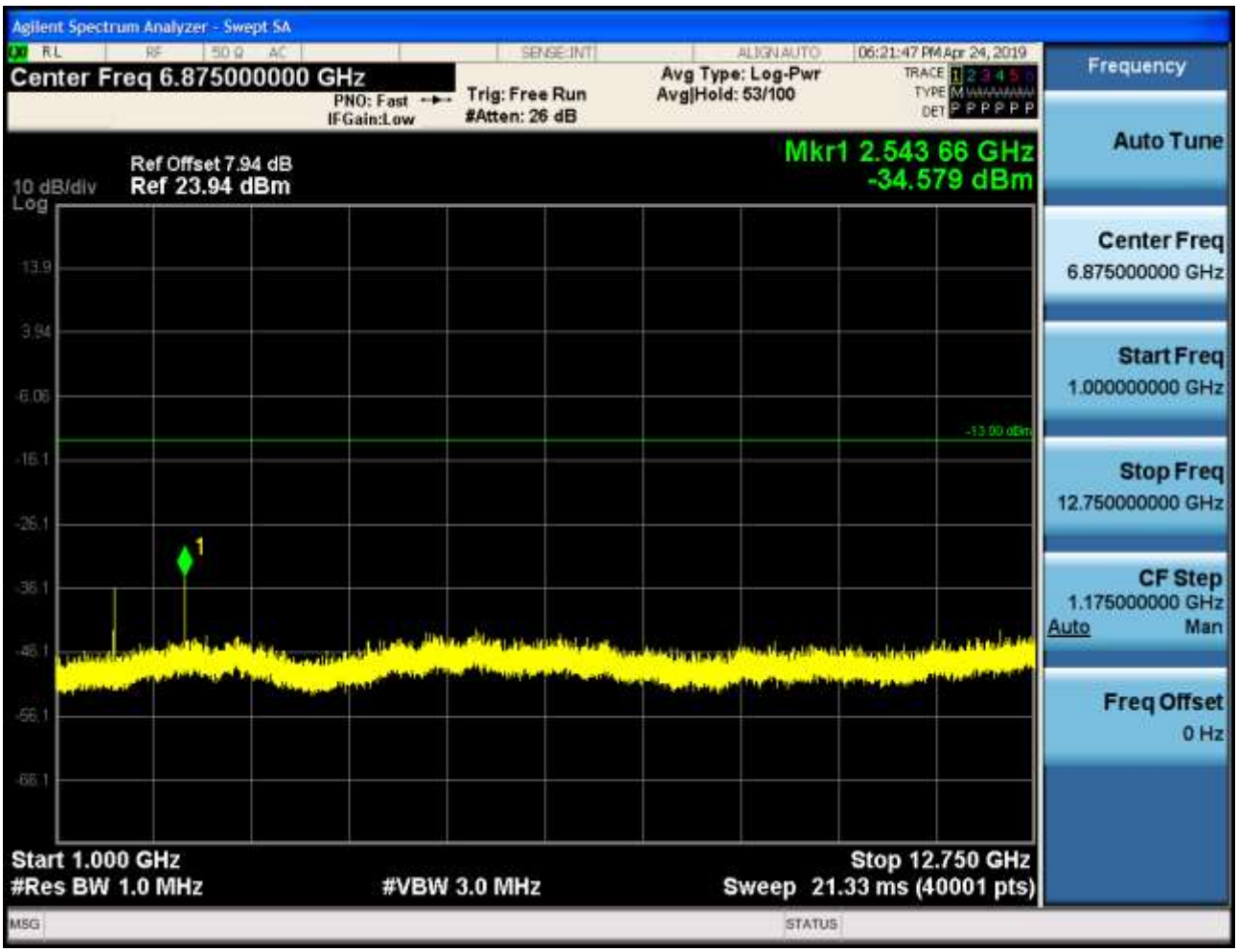
Agilent Spectrum Analyzer - Swept SA
Center Freq 6.875000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 55/100
06:23:19 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 2.508 11 GHz
-33.720 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 12.750 GHz
Sweep 21.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
6.875000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
06:21:25 PM Apr 24, 2019
Ref Offset 7.94 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 167.91 kHz
-53.966 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

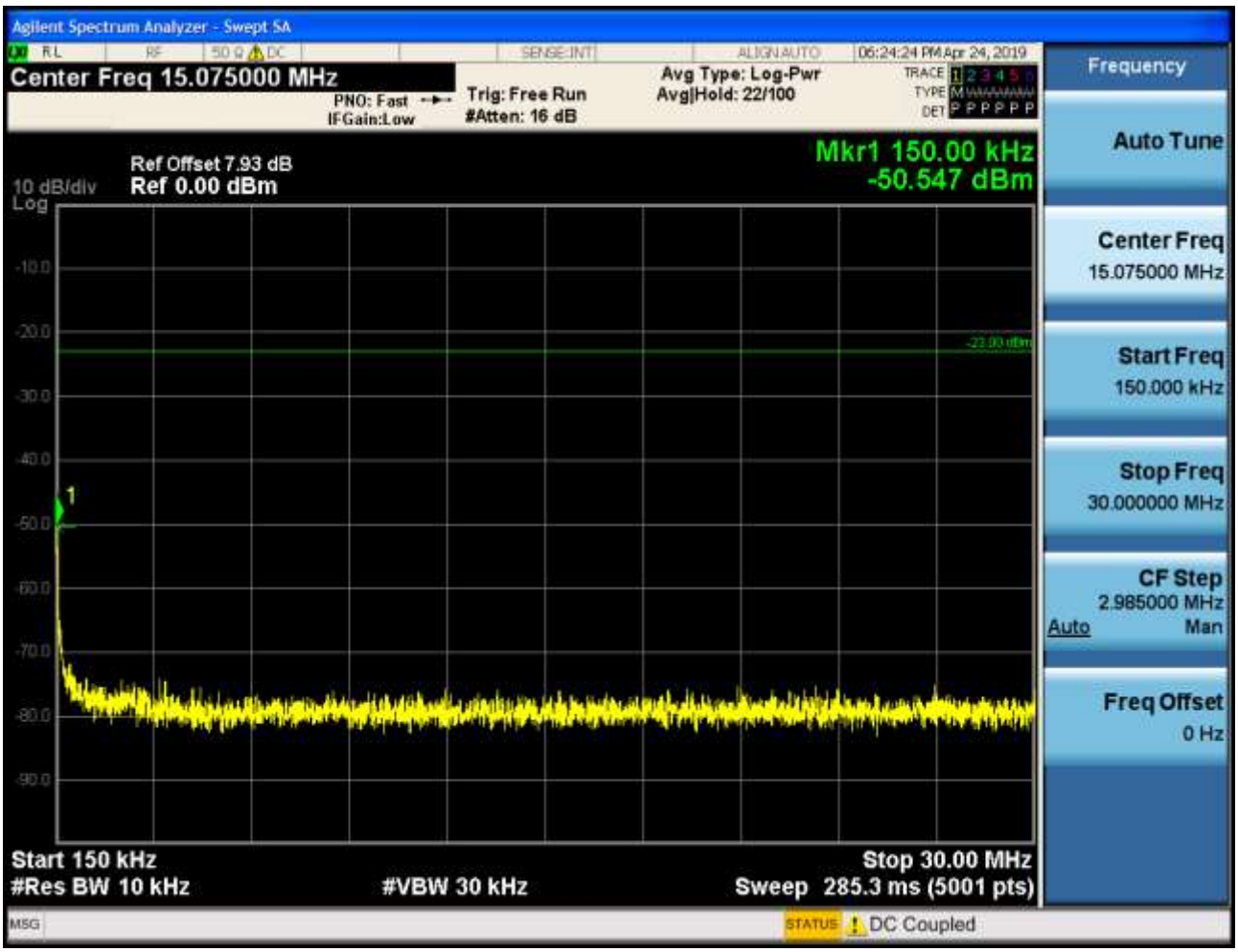

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 69/100
06:21:37 PM Apr 24, 2019
Ref Offset 7.94 dB
10 dB/div
Log
Ref 23.94 dBm
Mkr1 850.280 MHz
-33.801 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

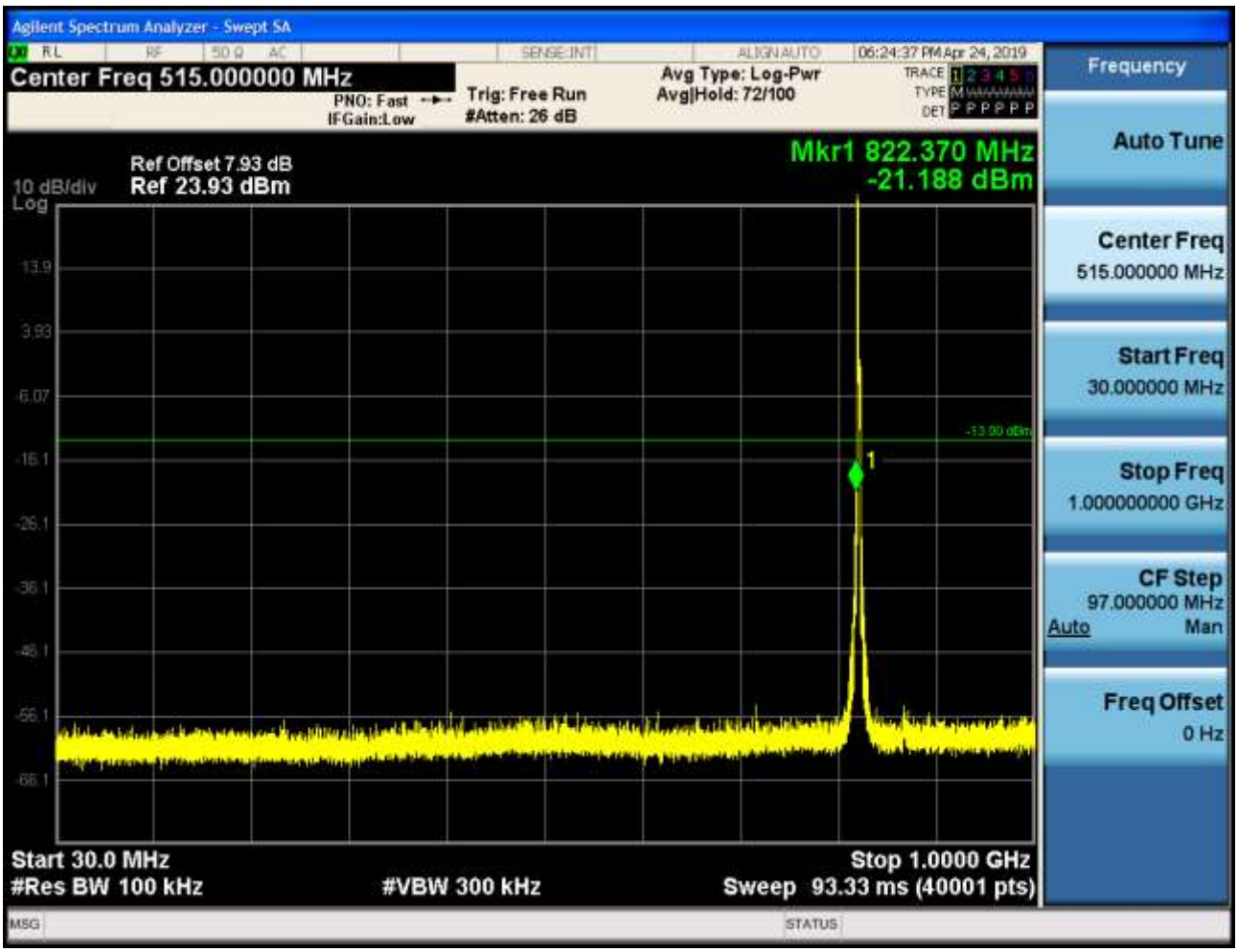

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:21:47 PM Apr 24, 2019
Center Freq 6.875000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 53/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 7.94 dB
10 dB/div
Log
Ref 23.94 dBm
Mkr1 2.543 66 GHz
-34.579 dBm
13.9
3.94
-6.06
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
-13.00 dBm
1
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 12.750 GHz
Sweep 21.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
6.875000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz

6.2.1.1.2 Test Bandwidth = 3

6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0

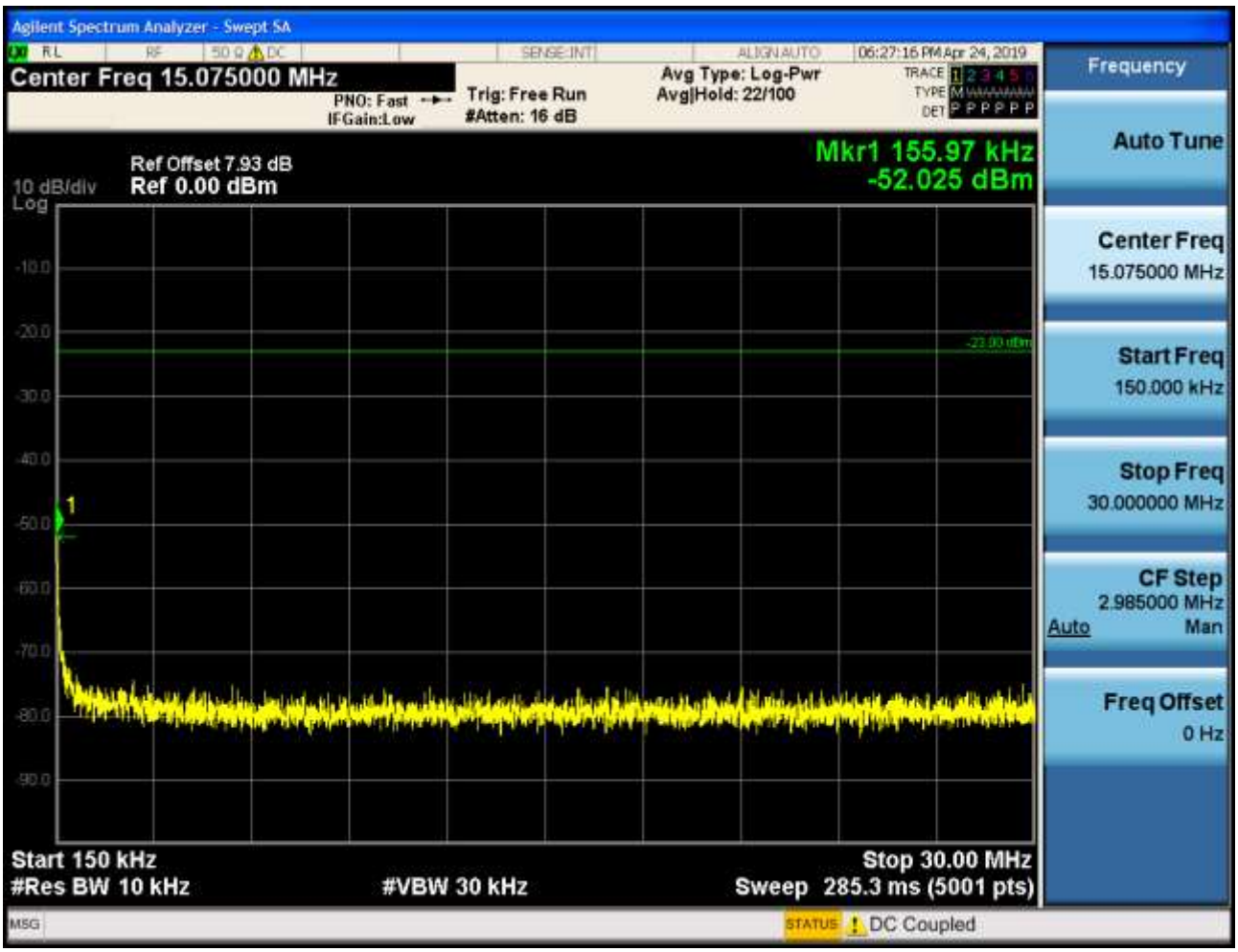

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
06:24:24 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 150.00 kHz
-50.547 dBm
-23.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

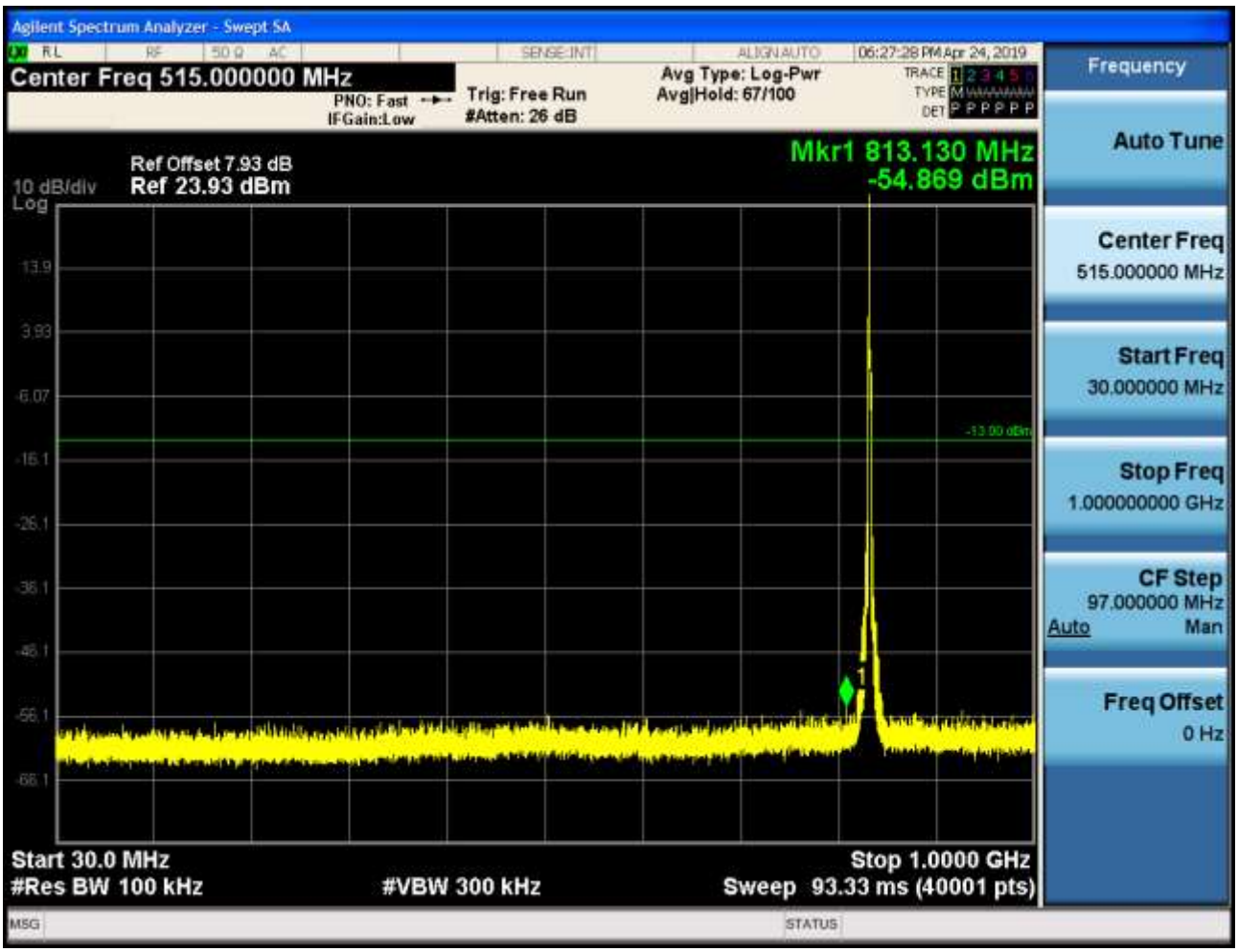

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:24:37 PM Apr 24, 2019
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 72/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 822.370 MHz
-21.188 dBm
13.9
3.93
-6.07
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
-13.00 dBm
1
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 6.875000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 56/100
06:24:47 PM Apr 24, 2019
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 1.648 60 GHz
-32.508 dBm
13.9
3.93
-6.07
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 12.750 GHz
Sweep 21.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
6.875000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
12.750000000 GHz
CF Step
1.175000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
06:27:16 PM Apr 24, 2019
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 7.93 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-52.025 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.00 dBm
1
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:27:28 PM Apr 24, 2019
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 67/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 7.93 dB
10 dB/div
Log
Ref 23.93 dBm
Mkr1 813.130 MHz
-54.869 dBm
13.9
3.93
-6.07
-16.1
-26.1
-36.1
-46.1
-56.1
-66.1
-13.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz