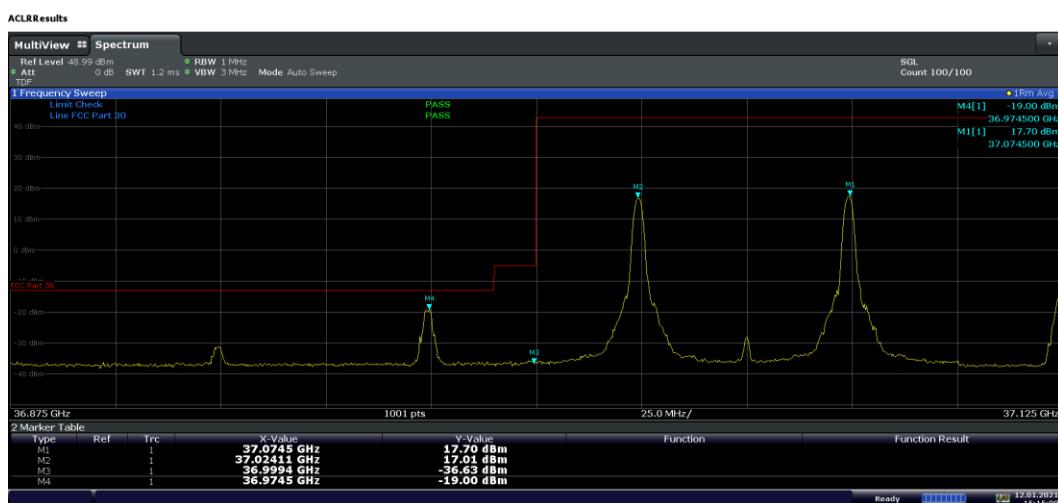
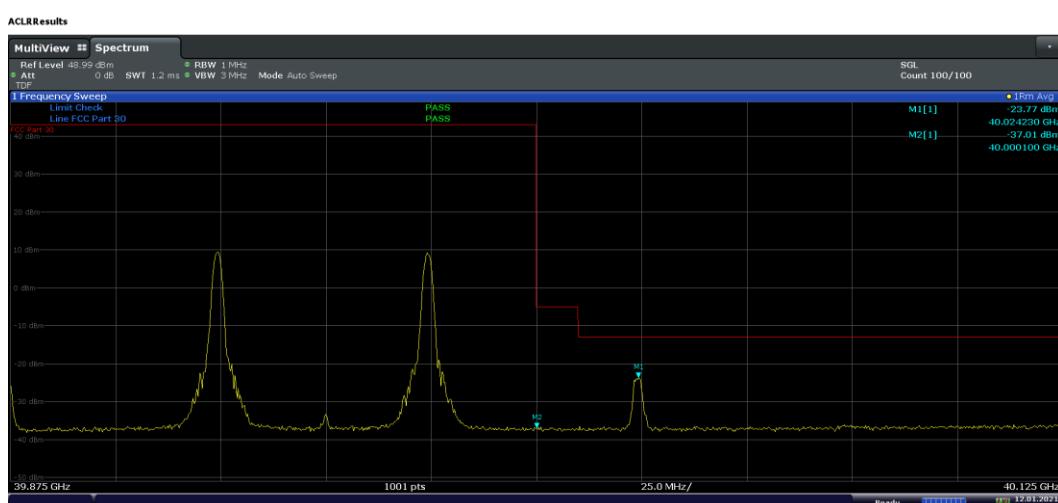


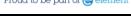
Plot 7-323. Ant M0 Lower BE (Band n260-50+50MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)

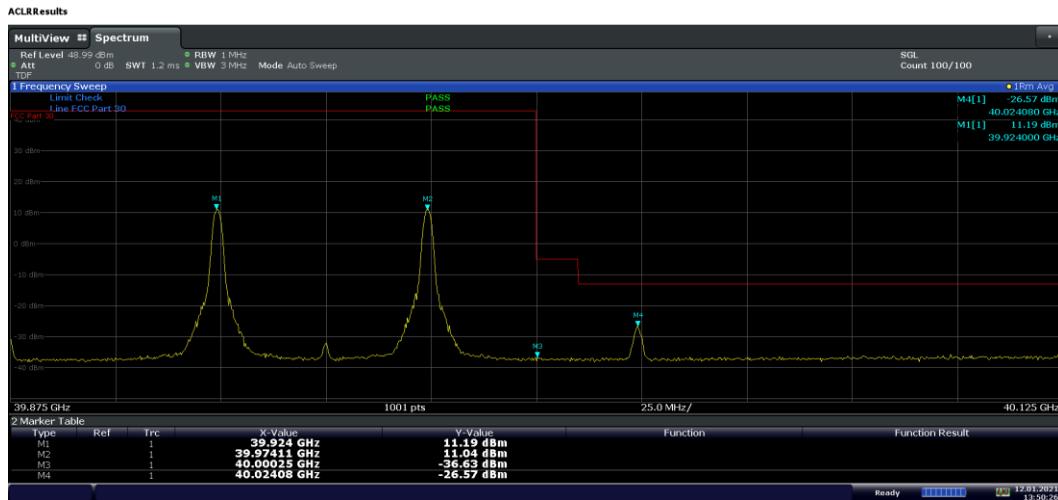


Plot 7-324. Ant M0 Lower BE (Band n260-50+50MHz-2CC SISO Dual Pol– 64QAM 1-M RB)

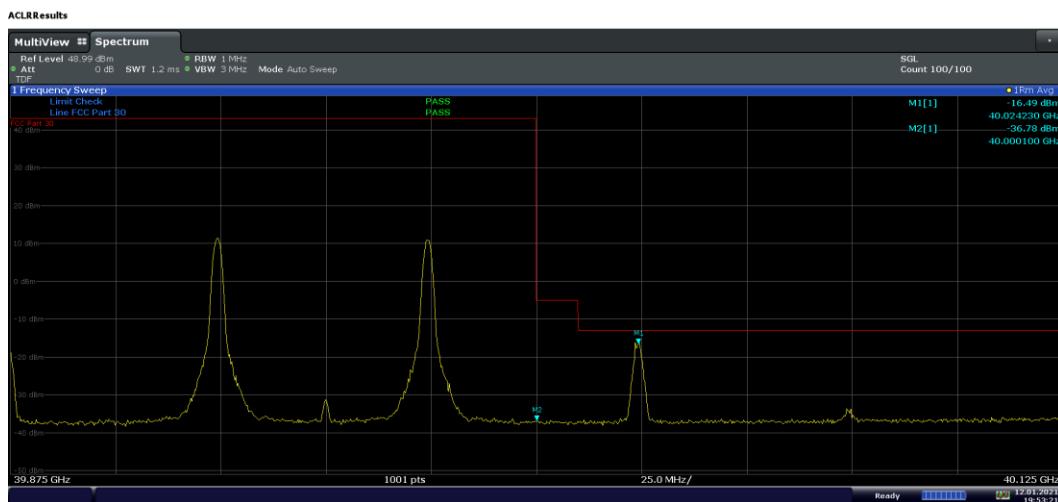


Plot 7-325. Ant M0 Upper BE (Band n260-50+50MHz-2CC SISO CP-OFDM – QPSK 1-M RB)

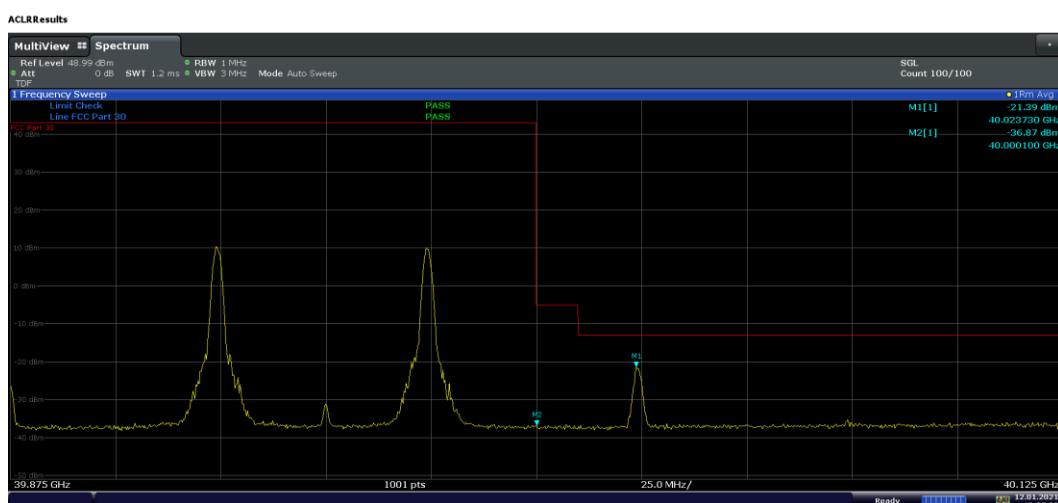
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 163 of 201



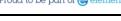
Plot 7-326. Ant M0 Upper BE (Band n260-50+50MHz-2CC SISO Dual Pol- BPSK 1-M RB)

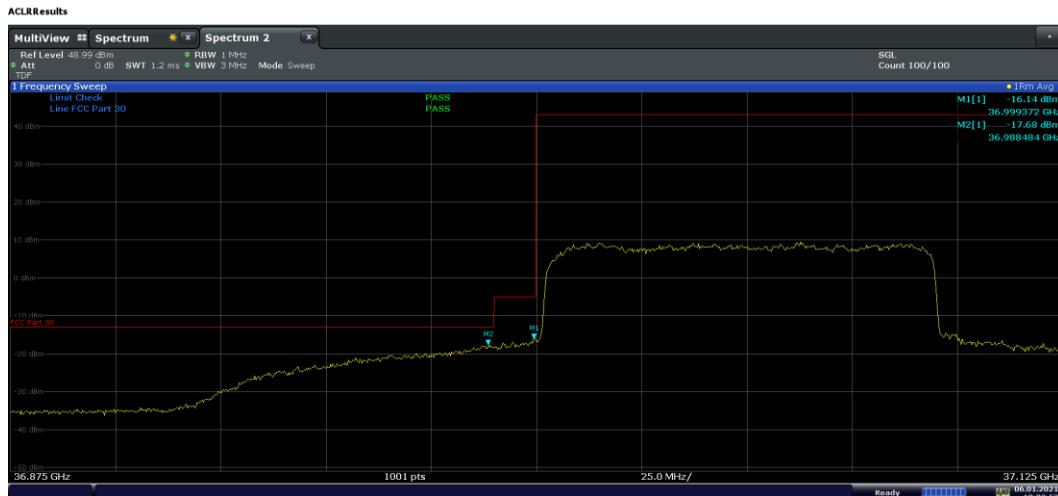


Plot 7-327. Ant M0 Upper BE (Band n260-50+50MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)

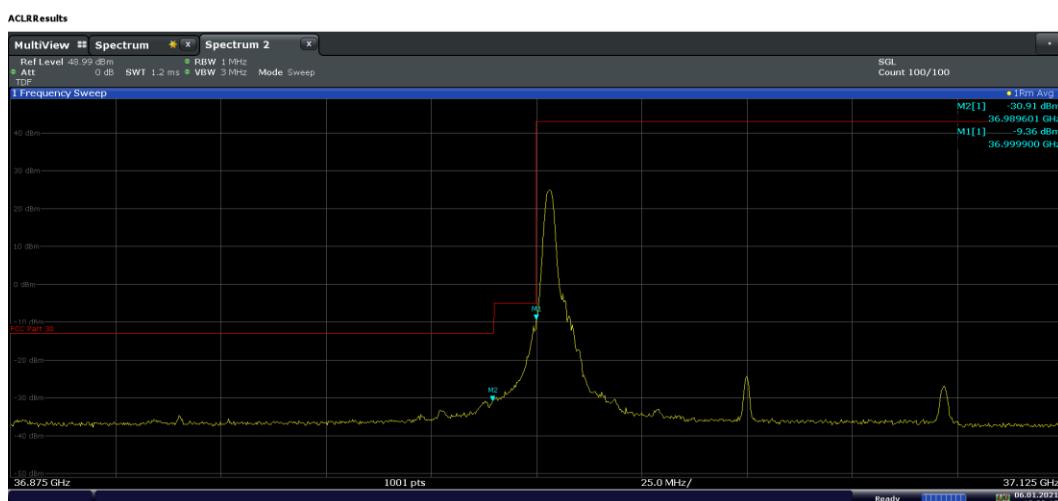


Plot 7-328. Ant M0 Upper BE (Band n260-50+50MHz-2CC SISO CP-OFDM – 64QAM 1-M RB)

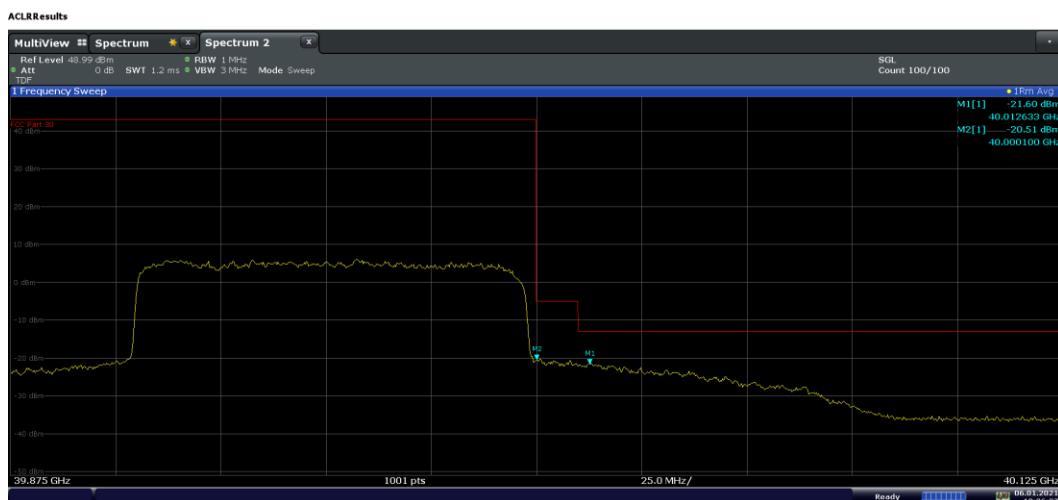
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 164 of 201



Plot 7-329. Ant M0 Lower BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK Full RB)

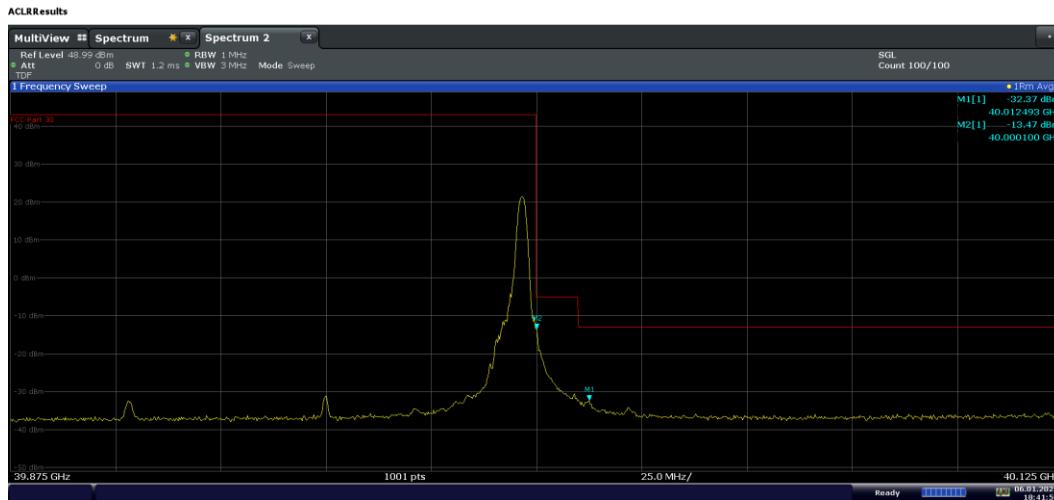


Plot 7-330. Ant M0 Lower BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK 1-L RB)

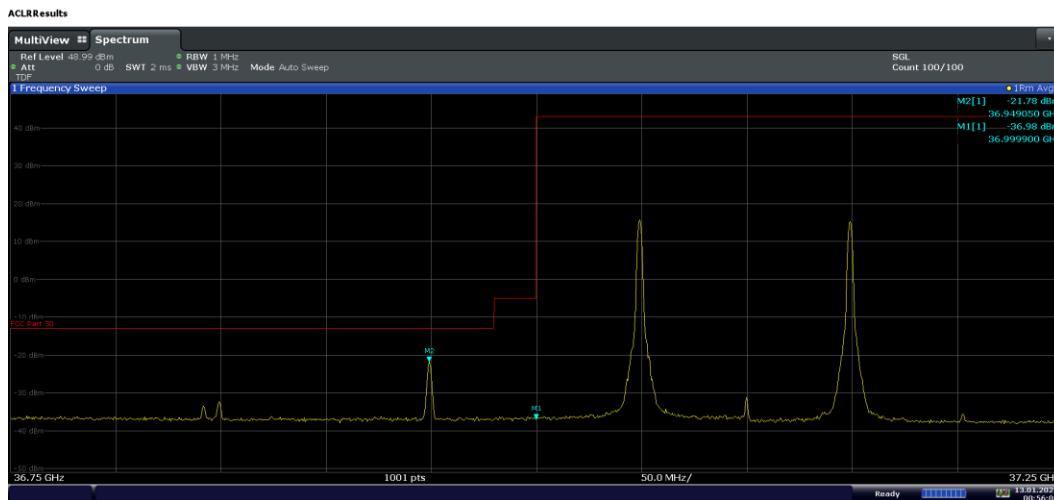


Plot 7-331. Ant M0 Upper BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK Full RB)

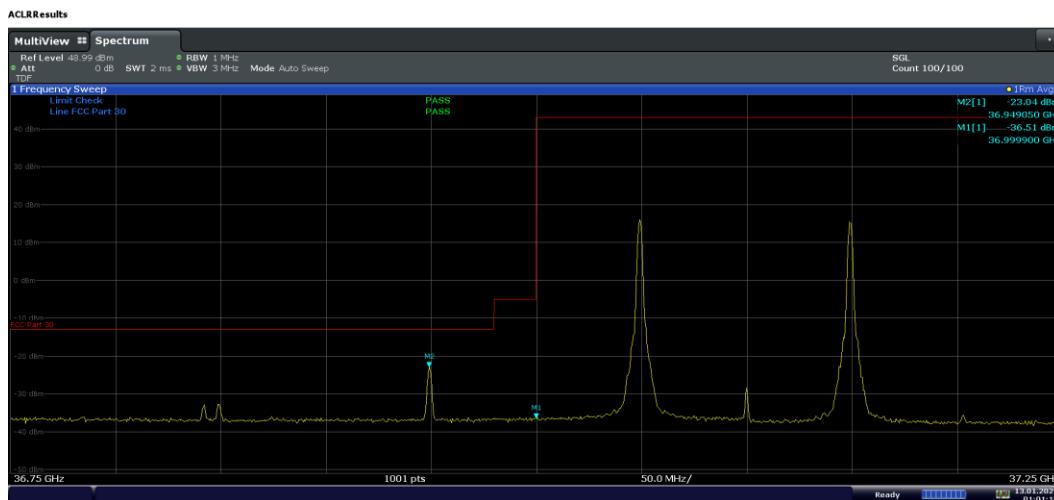
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 165 of 201



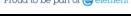
Plot 7-332. Ant M0 Upper BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK 1-H RB)

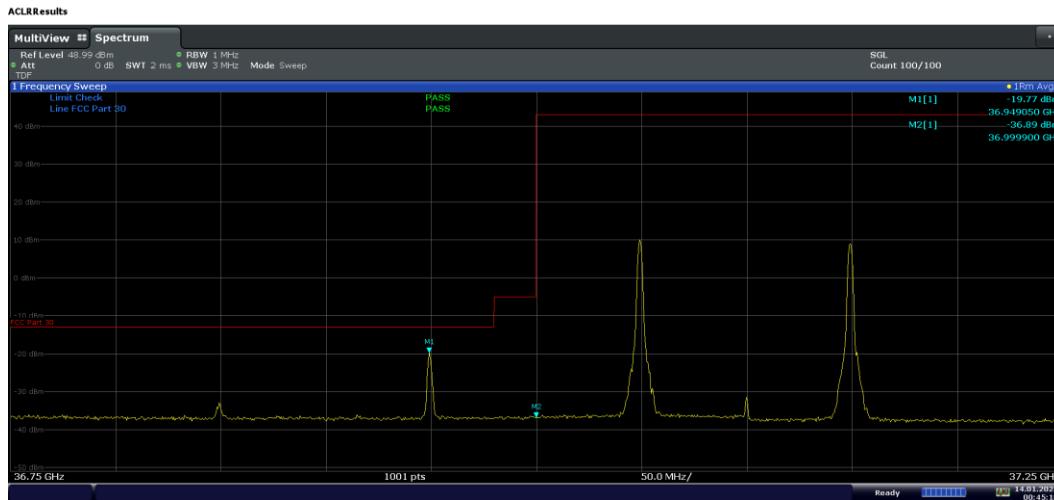


Plot 7-333. Ant M0 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol- QPSK 1-M RB)

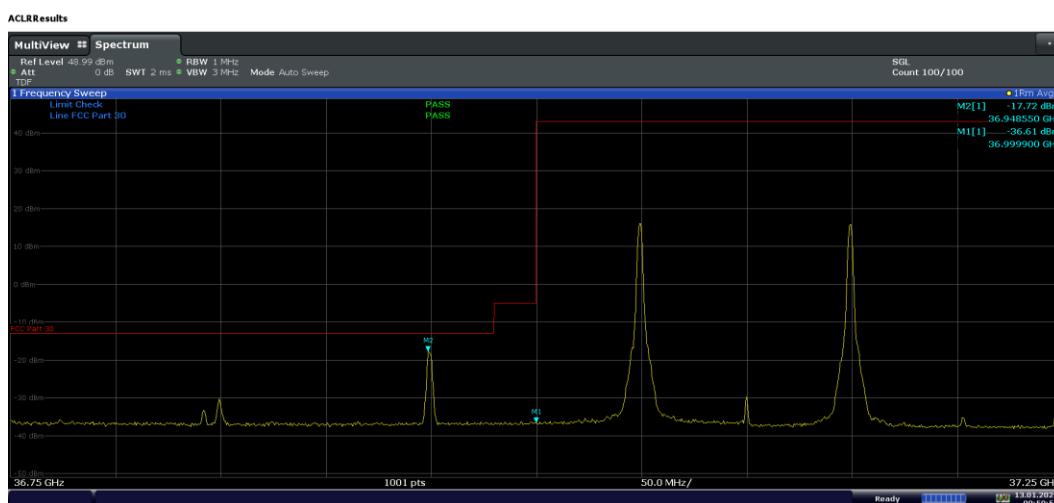


Plot 7-334. Ant M0 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol- BPSK 1-M RB)

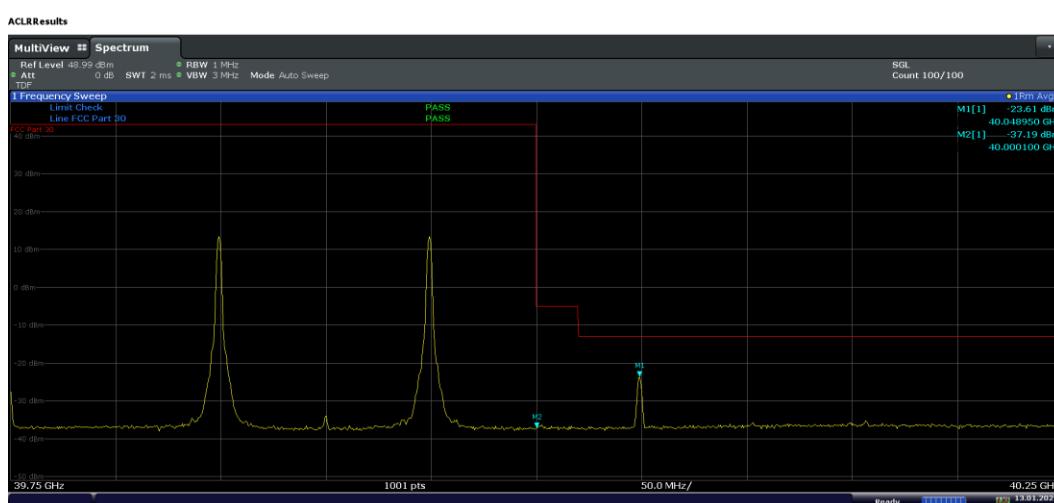
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 166 of 201



Plot 7-335. Ant M0 Lower BE (Band n260-100+100MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)

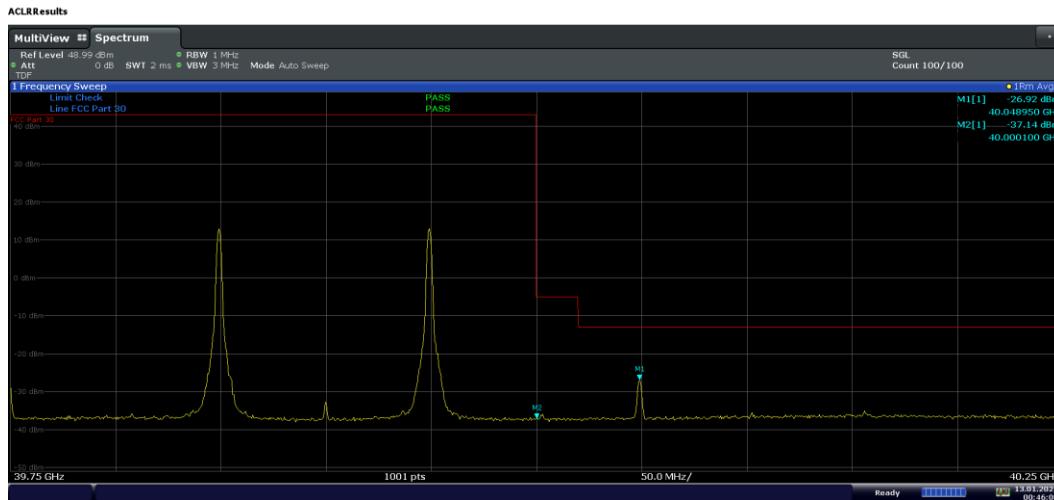


Plot 7-336. Ant M0 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol– 64QAM 1-M RB)

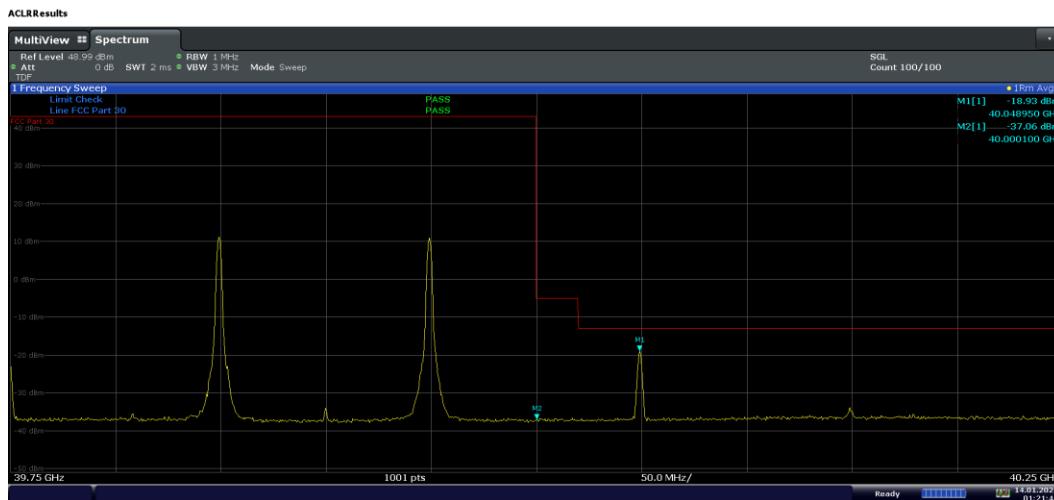


Plot 7-337. Ant M0 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol– QPSK 1-M RB)

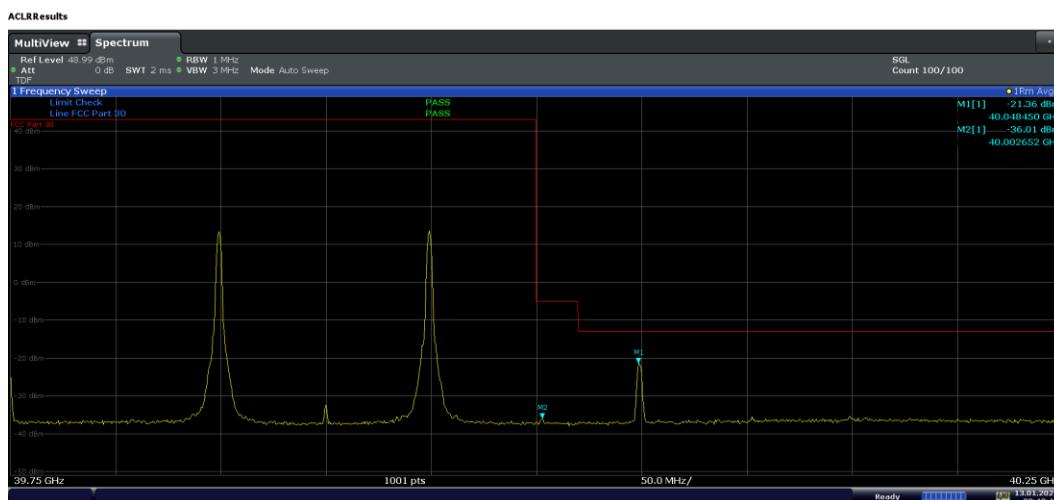
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 167 of 201



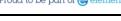
Plot 7-338. Ant M0 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol- BPSK 1-M RB)



Plot 7-339. Ant M0 Upper BE (Band n260-100+100MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)



Plot 7-340. Ant M0 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol- 64QAM 1-M RB)

FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 168 of 201

Band n260 Ant M2

Bandwidth (MHz)	CCs Active	Channel	Antenna Diversity	Waveform	Modulation	Peak Beam ID	Paired Beam ID	RB Config	Frequency [GHz]	Average EIRP [dBm]	TRP Limit [dBm]	Margin [dB]
50	1	Low	SISO	CP-OFDM	QPSK	165		Full	36.995	-20.32	-13.00	-7.32
		Low	SISO	CP-OFDM	QPSK	165		1-Low	37.000	-13.04	-5.00	-8.04
		High	SISO	CP-OFDM	QPSK	165		Full	40.006	-24.61	-13.00	-11.61
		High	SISO	CP-OFDM	QPSK	165		1-High	40.000	-15.95	-5.00	-10.95
		Low	SISO	DFT-s-OFDM	QPSK	165		Full	36.995	-19.65	-13.00	-6.65
		Low	SISO	DFT-s-OFDM	QPSK	165		1-Low	37.000	-10.56	-5.00	-5.56
		High	SISO	DFT-s-OFDM	QPSK	165		Full	40.006	-24.25	-13.00	-11.25
		High	SISO	DFT-s-OFDM	QPSK	165		1-High	40.000	-15.88	-5.00	-10.88
		Low	MIMO	CP-OFDM	QPSK	165	37	Full	36.993	-18.62	-13.00	-5.62
		Low	MIMO	CP-OFDM	QPSK	165	37	1-Low	37.000	-13.61	-5.00	-8.61
		High	MIMO	CP-OFDM	QPSK	165	37	Full	40.005	-23.07	-13.00	-10.07
		High	MIMO	CP-OFDM	QPSK	165	37	1-High	40.000	-14.90	-5.00	-9.90
		Low	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	Full	36.995	-16.66	-13.00	-3.66
		Low	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	1-Low	37.000	-7.70	-5.00	-2.70
		High	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	Full	40.005	-18.04	-13.00	-5.04
		High	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	1-High	40.000	-12.19	-5.00	-7.19
50+50	2	Low	SISO	CP-OFDM	QPSK	165		Full	36.987	-32.88	-13.00	-19.88
		Low	SISO	CP-OFDM	QPSK	165		1-Low	36.953	-17.54	-13.00	-4.54
		Low	SISO	CP-OFDM	QPSK	165		1-Mid	36.975	-14.14	-13.00	-1.14
		Low	SISO	CP-OFDM	16QAM	165		1-Low	36.953	-19.11	-13.00	-6.11
		Low	SISO	CP-OFDM	16QAM	165		1-Mid	36.975	-16.31	-13.00	-3.31
		Low	SISO	CP-OFDM	64QAM	165		1-Low	36.953	-20.09	-13.00	-7.09
		Low	SISO	CP-OFDM	64QAM	165		1-Mid	36.975	-19.03	-13.00	-6.03
		High	SISO	CP-OFDM	QPSK	165		Full	40.018	-34.27	-13.00	-21.27
		High	SISO	CP-OFDM	QPSK	165		1-High	40.047	-18.61	-13.00	-5.61
		High	SISO	CP-OFDM	QPSK	165		1-Mid	40.024	-14.74	-13.00	-1.74
		High	SISO	CP-OFDM	16QAM	165		1-High	40.047	-23.11	-13.00	-10.11
		High	SISO	CP-OFDM	16QAM	165		1-Mid	40.024	-19.78	-13.00	-6.78
		High	SISO	CP-OFDM	64QAM	165		1-High	40.047	-27.93	-13.00	-14.93
		High	SISO	CP-OFDM	64QAM	165		1-Mid	40.024	-24.59	-13.00	-11.59
		Low	SISO	DFTs-OFDM	QPSK	165		Full	36.973	-32.85	-13.00	-19.85
		Low	SISO	DFTs-OFDM	QPSK	165		1-Low	36.953	-21.85	-13.00	-8.85
		Low	SISO	DFTs-OFDM	QPSK	165		1-Mid	36.974	-21.72	-13.00	-8.72
		Low	SISO	DFTs-OFDM	$\pi/2$ BPSK	165		1-Low	36.953	-22.79	-13.00	-9.79
		Low	SISO	DFTs-OFDM	$\pi/2$ BPSK	165		1-Mid	36.974	-22.36	-13.00	-9.36
		Low	SISO	DFTs-OFDM	16QAM	165		1-Low	36.953	-18.40	-13.00	-5.40
		Low	SISO	DFTs-OFDM	16QAM	165		1-Mid	36.974	-18.38	-13.00	-5.38
		Low	SISO	DFTs-OFDM	64QAM	165		1-Low	36.953	-22.65	-13.00	-9.65
		Low	SISO	DFTs-OFDM	64QAM	165		1-Mid	36.974	-21.88	-13.00	-8.88
		High	SISO	DFTs-OFDM	QPSK	165		Full	40.020	-34.59	-13.00	-21.59
		High	SISO	DFTs-OFDM	QPSK	165		1-High	40.047	-26.30	-13.00	-13.30
		High	SISO	DFTs-OFDM	QPSK	165		1-Mid	40.024	-25.59	-13.00	-12.59
		High	SISO	DFTs-OFDM	$\pi/2$ BPSK	165		1-High	40.047	-26.18	-13.00	-13.18
		High	SISO	DFTs-OFDM	$\pi/2$ BPSK	165		1-Mid	40.024	-25.58	-13.00	-12.58
		High	SISO	DFTs-OFDM	16QAM	165		1-High	40.047	-25.20	-13.00	-12.20
		High	SISO	DFTs-OFDM	16QAM	165		1-Mid	40.024	-24.45	-13.00	-11.45
		High	SISO	DFTs-OFDM	64QAM	165		1-High	40.047	-26.61	-13.00	-13.61
		High	SISO	DFTs-OFDM	64QAM	165		1-Mid	40.024	-25.93	-13.00	-12.93
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	165	37	Full	36.989	-31.76	-13.00	-18.76
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	165	37	1-Low	36.953	-18.15	-13.00	-5.15
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	165	37	1-Mid	36.974	-17.13	-13.00	-4.13
		Low	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	37	1-Low	36.953	-19.26	-13.00	-6.26
		Low	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	37	1-Mid	36.974	-18.39	-13.00	-5.39
		Low	SISO Dual Pol	DFTs-OFDM	16QAM	165	37	1-Low	36.953	-17.38	-13.00	-4.38
		Low	SISO Dual Pol	DFTs-OFDM	16QAM	165	37	1-Mid	36.974	-16.83	-13.00	-3.83
		Low	SISO Dual Pol	DFTs-OFDM	64QAM	165	37	1-Low	36.952	-16.60	-13.00	-3.60
		Low	SISO Dual Pol	DFTs-OFDM	64QAM	165	37	1-Mid	36.975	-15.15	-13.00	-2.15
		High	SISO Dual Pol	DFTs-OFDM	QPSK	165	37	Full	40.011	-34.27	-13.00	-21.27
		High	SISO Dual Pol	DFTs-OFDM	QPSK	165	37	1-High	40.047	-22.51	-13.00	-9.51
		High	SISO Dual Pol	DFTs-OFDM	QPSK	165	37	1-Mid	40.024	-21.78	-13.00	-8.78
		High	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	37	1-High	40.047	-23.70	-13.00	-10.70
		High	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	37	1-Mid	40.024	-23.19	-13.00	-10.19
		High	SISO Dual Pol	DFTs-OFDM	16QAM	165	37	1-High	40.047	-23.44	-13.00	-10.44
		High	SISO Dual Pol	DFTs-OFDM	16QAM	165	37	1-Mid	40.024	-21.29	-13.00	-8.29
		High	SISO Dual Pol	DFTs-OFDM	64QAM	165	37	1-High	40.046	-21.29	-13.00	-8.29
		High	SISO Dual Pol	DFTs-OFDM	64QAM	165	37	1-Mid	40.024	-17.89	-13.00	-4.89

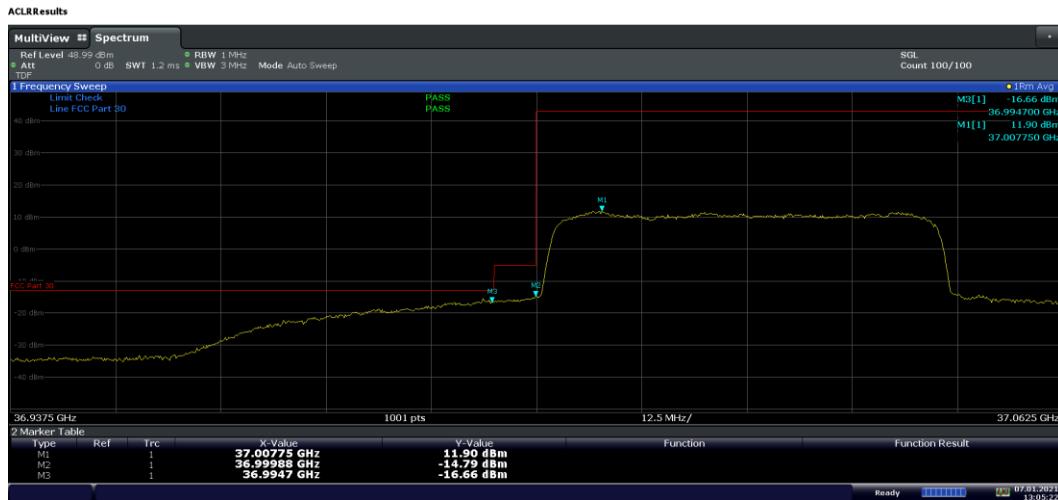
Table 7-90. Ant M2 – Band Edge Measurement Table (Band n260 – 50MHz/50+50MHz)

FCC ID: BCGA2379	 PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 169 of 201	

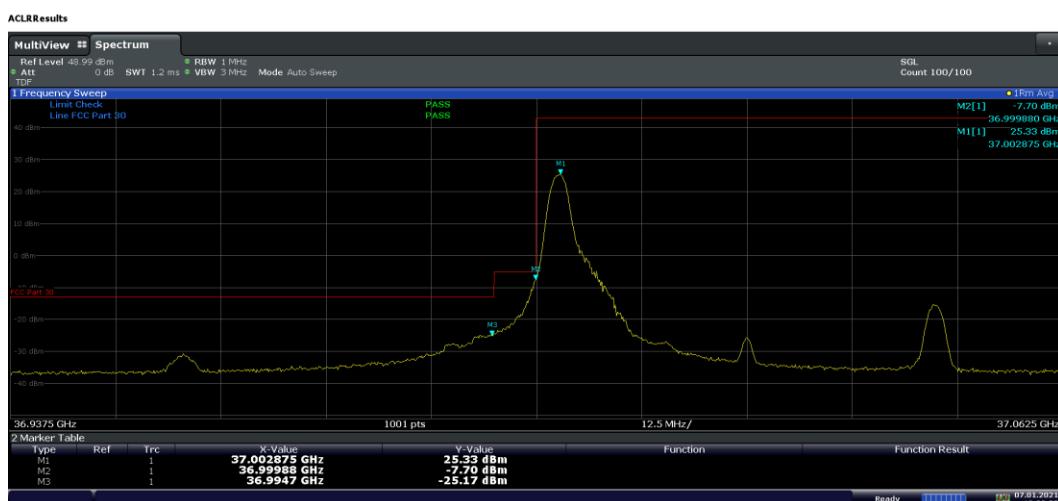
Bandwidth (MHz)	CCs Active	Channel	Antenna Diversity	Waveform	Modulation	Peak Beam ID	Paired Beam ID	RB Config	Frequency [GHz]	Average EIRP [dBm]	TRP Limit [dBm]	Margin [dB]	
100	1	Low	SISO	CP-OFDM	QPSK	165		Full	36.989	-25.59	-13.00	-12.59	
			SISO	CP-OFDM	QPSK	165		1-Low	37.000	-13.48	-5.00	-8.48	
			High	CP-OFDM	QPSK	165		Full	40.011	-27.70	-13.00	-14.70	
			High	CP-OFDM	QPSK	165		1-High	40.000	-17.49	-5.00	-12.49	
			Low	DFT-s-OFDM	QPSK	165		Full	36.988	-23.06	-13.00	-10.06	
			Low	DFT-s-OFDM	QPSK	165		1-Low	37.000	-10.99	-5.00	-5.99	
			High	DFT-s-OFDM	QPSK	165		Full	40.012	-20.80	-13.00	-7.80	
			High	DFT-s-OFDM	QPSK	165		1-High	40.000	-10.04	-5.00	-5.04	
			Low	MIMO	CP-OFDM	QPSK	165	37	Full	36.990	-23.68	-13.00	-10.68
			Low	MIMO	CP-OFDM	QPSK	165	37	1-Low	37.000	-11.76	-5.00	-6.76
		High	MIMO	CP-OFDM	QPSK	165	37	Full	40.012	-24.66	-13.00	-11.66	
			MIMO	CP-OFDM	QPSK	165	37	1-High	40.000	-16.10	-5.00	-11.10	
			Low	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	Full	36.990	-19.40	-13.00	-6.40
			Low	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	1-Low	37.000	-8.05	-5.00	-3.05
			High	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	Full	40.012	-20.54	-13.00	-7.54
			High	SISO Dual Pol	DFT-s-OFDM	QPSK	165	37	1-High	40.000	-11.52	-5.00	-6.52
100+100	2	Low	SISO	CP-OFDM	QPSK	165		Full	36.979	-34.67	-13.00	-21.67	
			SISO	CP-OFDM	QPSK	165		1-Low	36.903	-16.15	-13.00	-3.15	
			SISO	CP-OFDM	QPSK	165		1-Mid	36.949	-15.96	-13.00	-2.96	
			SISO	CP-OFDM	16QAM	165		1-Low	36.903	-19.71	-13.00	-6.71	
			SISO	CP-OFDM	16QAM	165		1-Mid	36.949	-16.35	-13.00	-3.35	
			SISO	CP-OFDM	64QAM	165		1-Low	36.903	-20.80	-13.00	-7.80	
			SISO	CP-OFDM	64QAM	165		1-Mid	36.949	-19.68	-13.00	-6.68	
			High	SISO	CP-OFDM	QPSK	165	Full	40.021	-35.84	-13.00	-22.84	
			High	SISO	CP-OFDM	QPSK	165	1-High	40.095	-26.37	-13.00	-13.37	
			High	SISO	CP-OFDM	QPSK	165	1-Mid	40.049	-22.73	-13.00	-9.73	
		High	SISO	CP-OFDM	16QAM	165		1-High	40.095	-26.95	-13.00	-13.95	
			SISO	CP-OFDM	16QAM	165		1-Mid	40.493	-25.44	-13.00	-12.44	
			SISO	CP-OFDM	64QAM	165		1-High	40.095	-30.25	-13.00	-17.25	
			SISO	CP-OFDM	64QAM	165		1-Mid	40.049	-29.14	-13.00	-16.14	
			Low	SISO	DFTs-OFDM	QPSK	165	Full	36.979	-34.46	-13.00	-21.46	
			Low	SISO	DFTs-OFDM	QPSK	165	1-Low	36.903	-20.42	-13.00	-7.42	
			Low	SISO	DFTs-OFDM	QPSK	165	1-Mid	36.949	-18.90	-13.00	-5.90	
			Low	SISO	DFTs-OFDM	$\pi/2$ BPSK	165	1-Low	36.903	-22.18	-13.00	-9.18	
			Low	SISO	DFTs-OFDM	$\pi/2$ BPSK	165	1-Mid	36.949	-21.09	-13.00	-8.09	
			Low	SISO	DFTs-OFDM	16QAM	165	1-Low	36.903	-20.80	-13.00	-7.80	
		High	SISO	DFTs-OFDM	16QAM	165		1-Mid	36.949	-19.03	-13.00	-6.03	
			SISO	DFTs-OFDM	64QAM	165		1-Low	36.903	-22.15	-13.00	-9.15	
			SISO	DFTs-OFDM	64QAM	165		1-Mid	36.949	-20.70	-13.00	-7.70	
			High	SISO	DFTs-OFDM	QPSK	165	Full	40.021	-36.17	-13.00	-23.17	
			High	SISO	DFTs-OFDM	QPSK	165	1-High	40.095	-28.91	-13.00	-15.91	
			High	SISO	DFTs-OFDM	QPSK	165	1-Mid	40.049	-27.19	-13.00	-14.19	
			High	SISO	DFTs-OFDM	$\pi/2$ BPSK	165	1-High	40.095	-28.16	-13.00	-15.16	
			High	SISO	DFTs-OFDM	$\pi/2$ BPSK	165	1-Mid	40.049	-27.40	-13.00	-14.40	
			High	SISO	DFTs-OFDM	16QAM	165	1-High	40.095	-27.36	-13.00	-14.36	
			High	SISO	DFTs-OFDM	16QAM	165	1-Mid	40.049	-27.57	-13.00	-14.57	
		Low	SISO	DFTs-OFDM	64QAM	165		1-High	40.095	-28.27	-13.00	-15.27	
			SISO	DFTs-OFDM	64QAM	165		1-Mid	40.049	-27.06	-13.00	-14.06	
			Low	SISO Dual Pol	DFTs-OFDM	QPSK	165	Full	36.972	-33.56	-13.00	-20.56	
			Low	SISO Dual Pol	DFTs-OFDM	QPSK	165	1-Low	36.903	-19.82	-13.00	-6.82	
			Low	SISO Dual Pol	DFTs-OFDM	QPSK	165	1-Mid	36.949	-18.06	-13.00	-5.06	
			Low	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	1-Low	36.903	-21.04	-13.00	-8.04	
			Low	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	1-Mid	36.949	-19.99	-13.00	-6.99	
			Low	SISO Dual Pol	DFTs-OFDM	16QAM	165	1-Low	36.903	-20.63	-13.00	-7.63	
			Low	SISO Dual Pol	DFTs-OFDM	16QAM	165	1-Mid	36.949	-18.54	-13.00	-5.54	
			Low	SISO Dual Pol	DFTs-OFDM	64QAM	165	1-Low	36.903	-19.86	-13.00	-6.86	
		High	SISO Dual Pol	DFTs-OFDM	64QAM	165		1-Mid	36.949	-17.48	-13.00	-4.48	
			SISO Dual Pol	DFTs-OFDM	QPSK	165		Full	40.032	-35.04	-13.00	-22.04	
			SISO Dual Pol	DFTs-OFDM	QPSK	165		1-High	40.095	-23.95	-13.00	-10.95	
			SISO Dual Pol	DFTs-OFDM	QPSK	165		1-Mid	40.049	-22.43	-13.00	-9.43	
			High	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	1-High	40.095	-25.11	-13.00	-12.11	
			High	SISO Dual Pol	DFTs-OFDM	$\pi/2$ BPSK	165	1-Mid	40.049	-24.82	-13.00	-11.82	
			High	SISO Dual Pol	DFTs-OFDM	16QAM	165	1-High	40.095	-23.32	-13.00	-10.32	
			High	SISO Dual Pol	DFTs-OFDM	16QAM	165	1-Mid	40.049	-21.92	-13.00	-8.92	
			High	SISO Dual Pol	DFTs-OFDM	64QAM	165	1-High	40.095	-21.77	-13.00	-8.77	
			High	SISO Dual Pol	DFTs-OFDM	64QAM	165	1-Mid	40.049	-20.98	-13.00	-7.98	

Table 7-91. Ant M2 – Band Edge Measurement Table (Band n260 – 100MHz/100+100MHz)

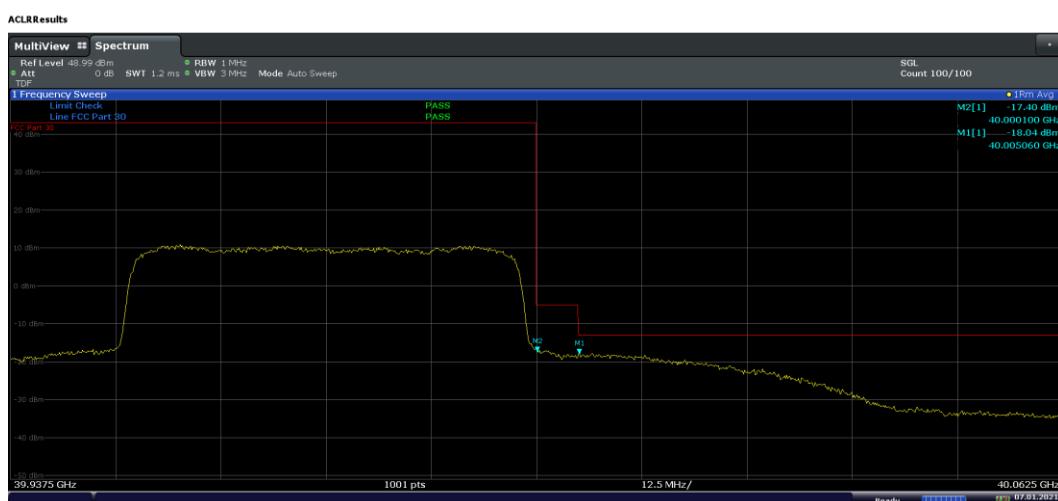
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 170 of 201



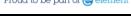
Plot 7-341. Ant M2 Lower BE (Band n260-50MHz-1CC SISO Dual Pol– QPSK Full RB)

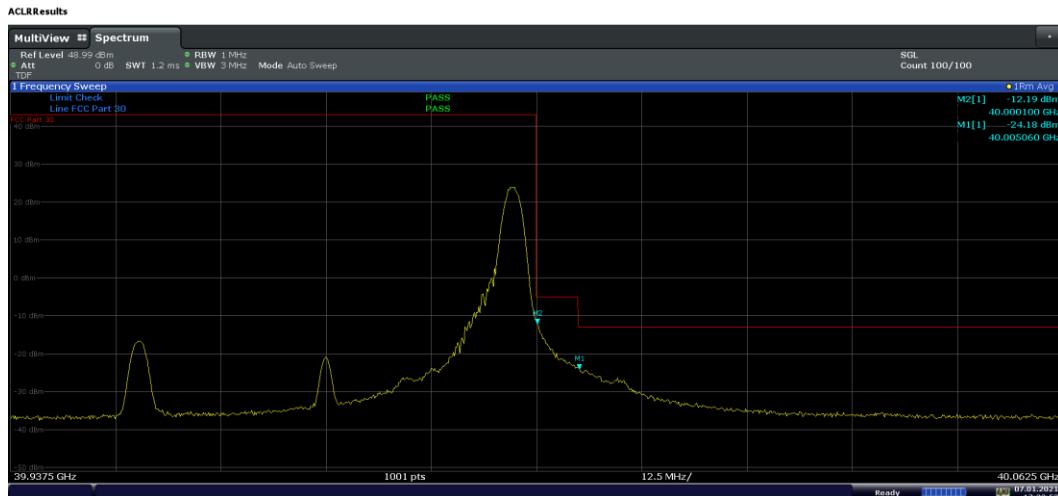


Plot 7-342. Ant M2 Lower BE (Band n260-50MHz-1CC SISO Dual Pol– QPSK 1-L RB)

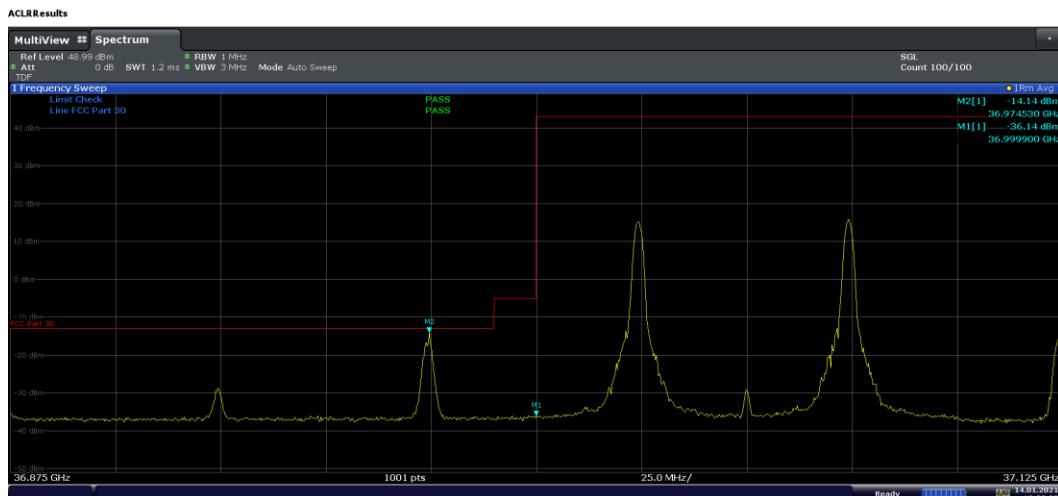


Plot 7-343. Ant M2 Upper BE (Band n260-50MHz-1CC SISO Dual Pol– QPSK Full RB)

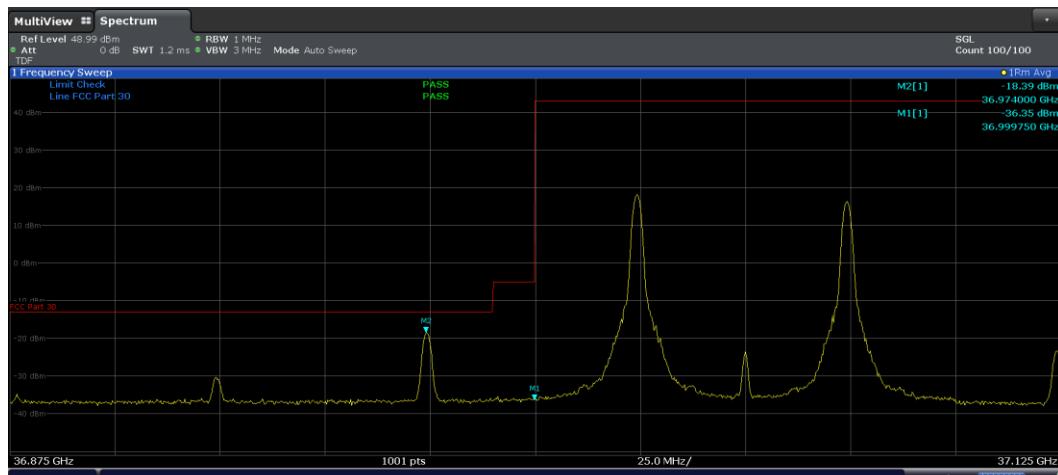
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 171 of 201



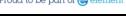
Plot 7-344. Ant M2 Upper BE (Band n260-50MHz-1CC SISO Dual Pol- QPSK 1-H RB)

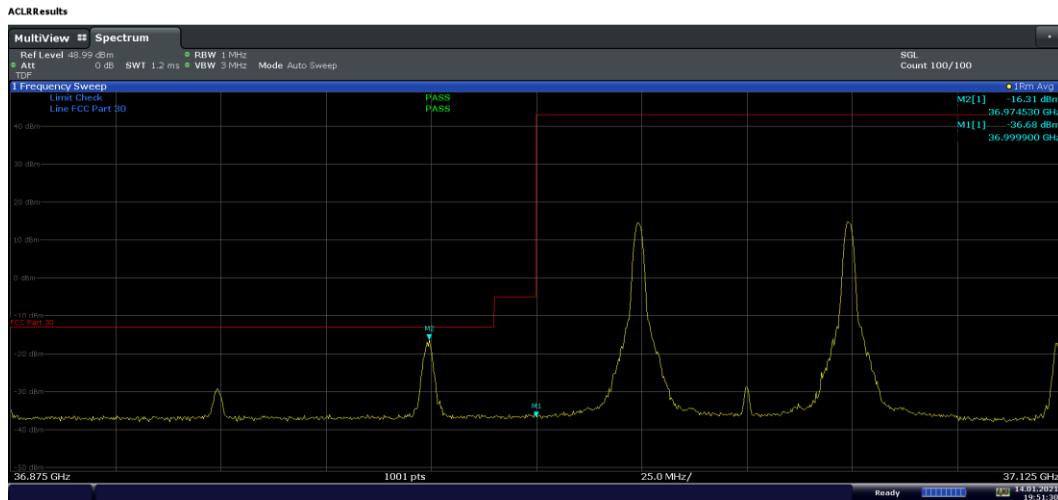


Plot 7-345. Ant M2 Lower BE (Band n260-50+50MHz-2CC SISO CP-OFDM – QPSK 1-M RB)

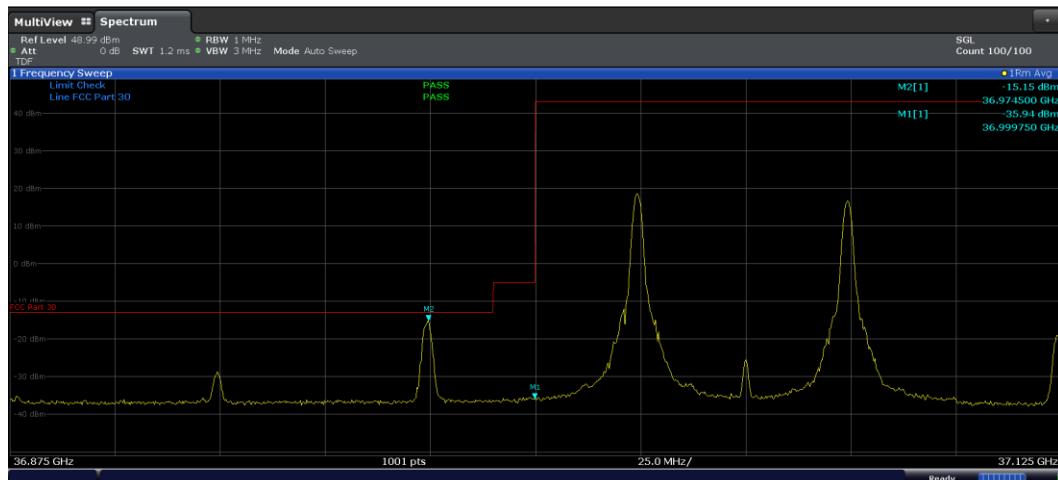


Plot 7-346. Ant M2 Lower BE (Band n260-50+50MHz-2CC SISO Dual Pol- BPSK 1-M RB)

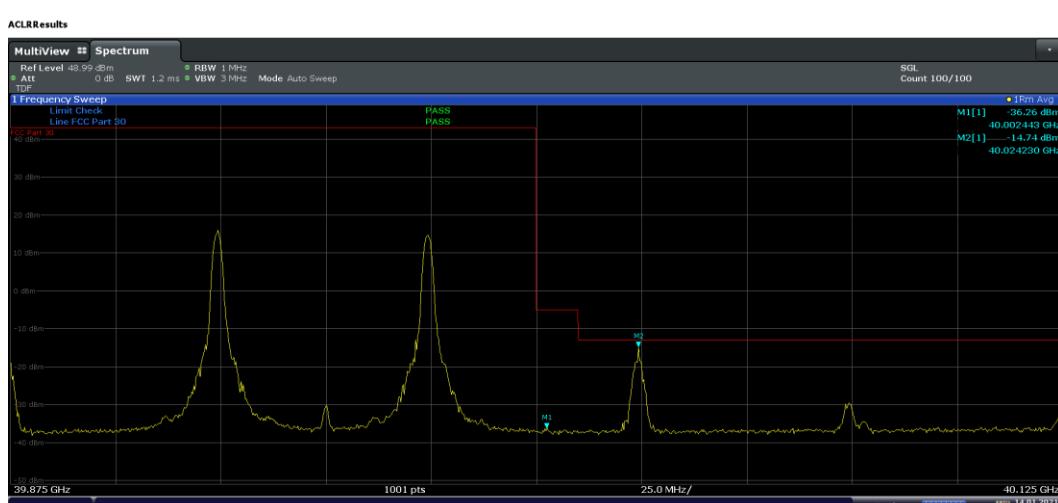
FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021		EUT Type: Tablet Device	Page 172 of 201



Plot 7-347. Ant M2 Lower BE (Band n260-50+50MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)

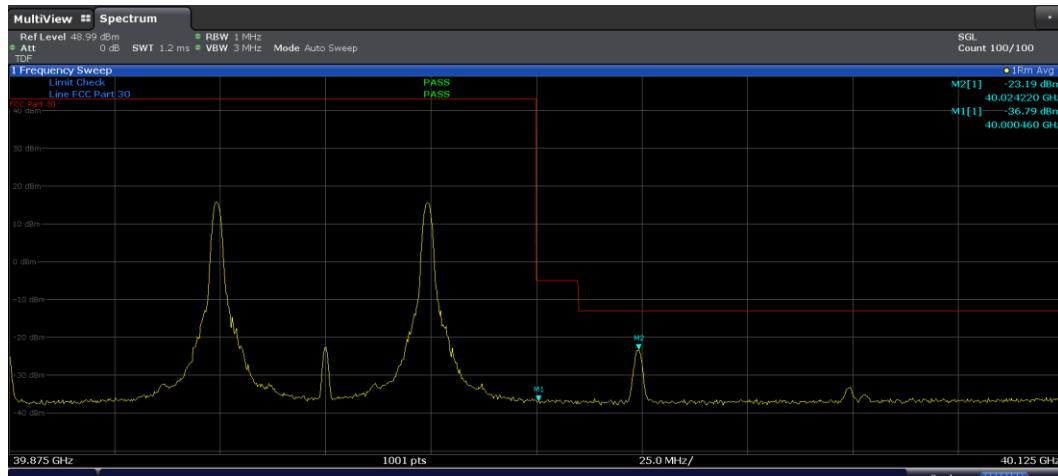


Plot 7-348. Ant M2 Lower BE (Band n260-50+50MHz-2CC SISO Dual Pol– 64QAM 1-M RB)

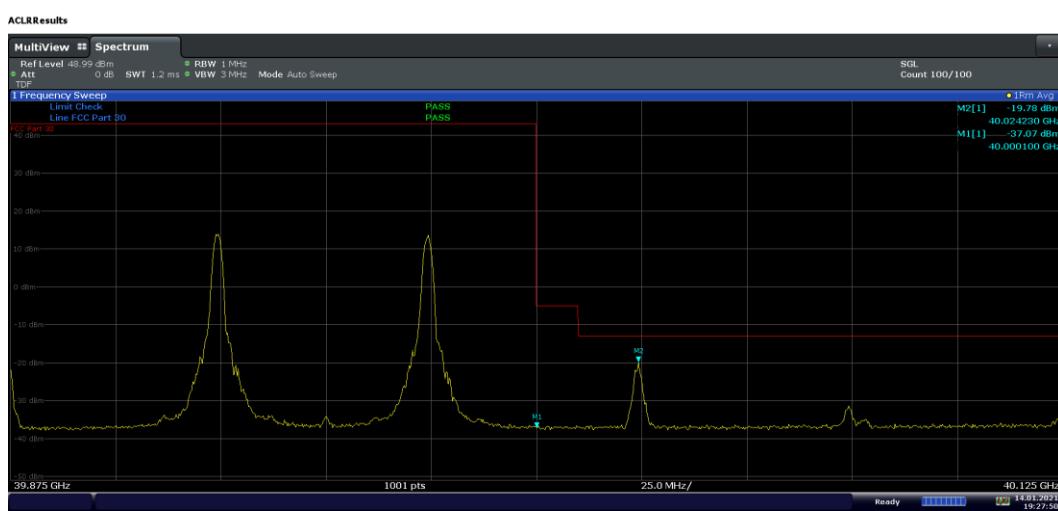


Plot 7-349. Ant M2 Upper BE (Band n260-50+50MHz-2CC SISO CP-OFDM – QPSK 1-M RB)

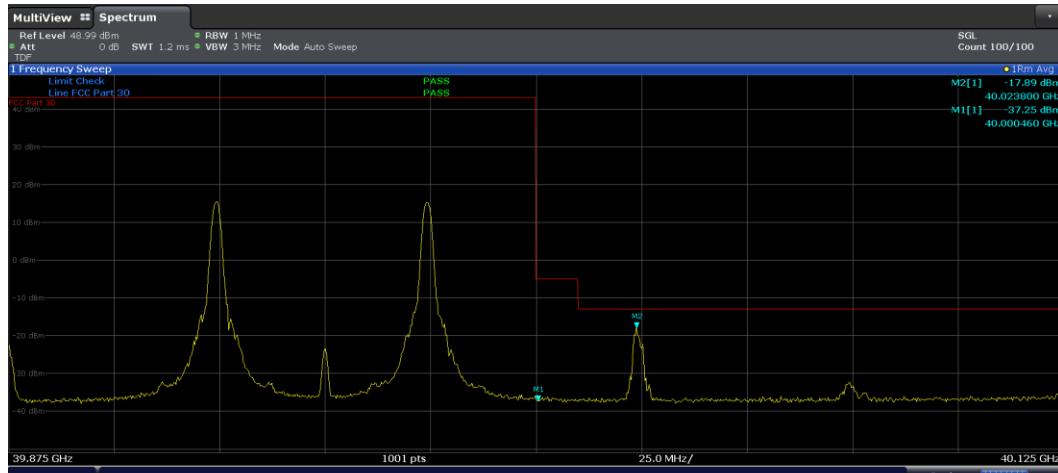
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 173 of 201



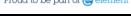
Plot 7-350. Ant M2 Upper BE (Band n260-50+50MHz-2CC SISO Dual Pol- BPSK 1-M RB)

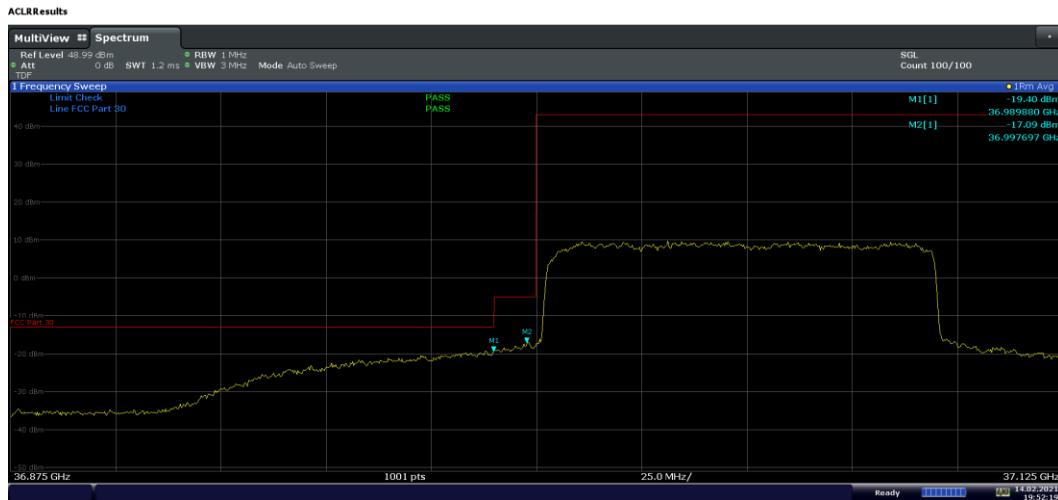


Plot 7-351. Ant M2 Upper BE (Band n260-50+50MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)

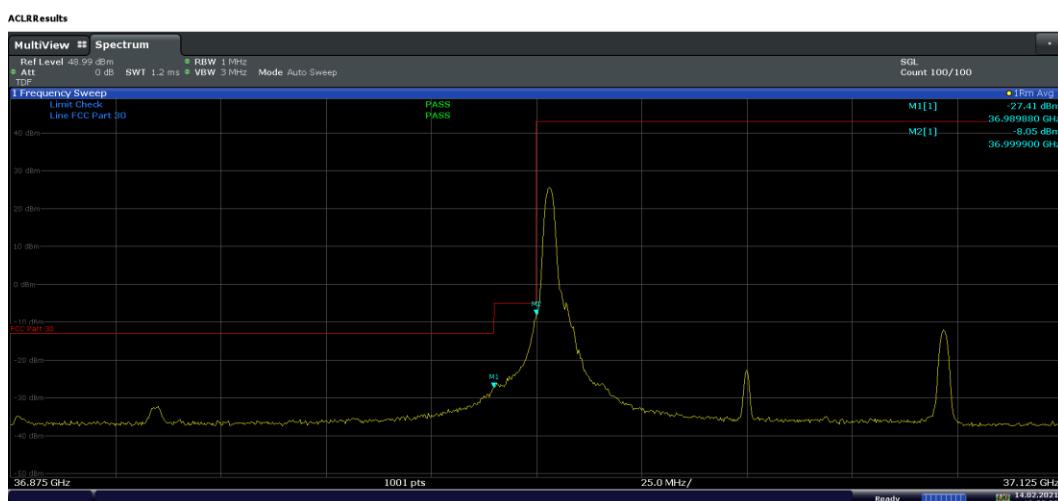


Plot 7-352. Ant M2 Upper BE (Band n260-50+50MHz-2CC SISO Dual Pol- 64QAM 1-M RB)

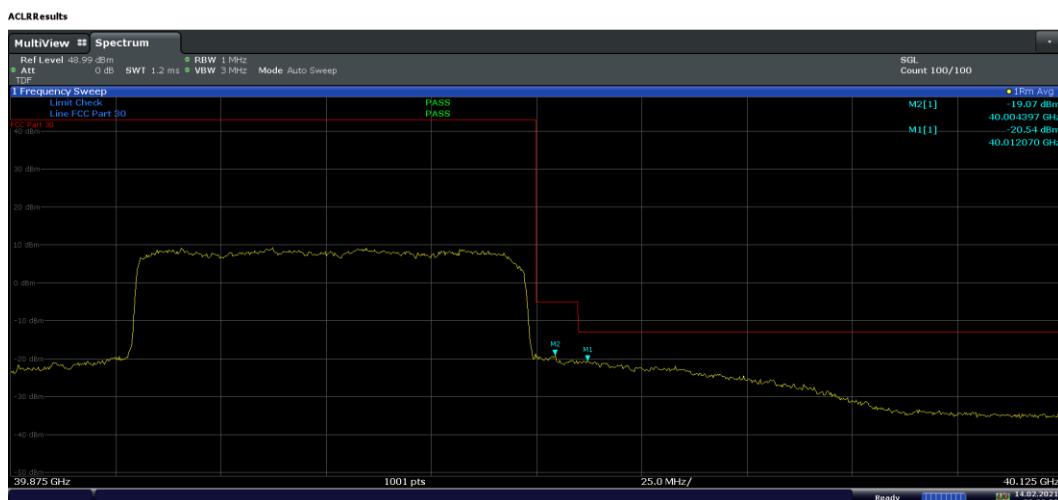
FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 174 of 201



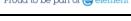
Plot 7-353. Ant M2 Lower BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK Full RB)

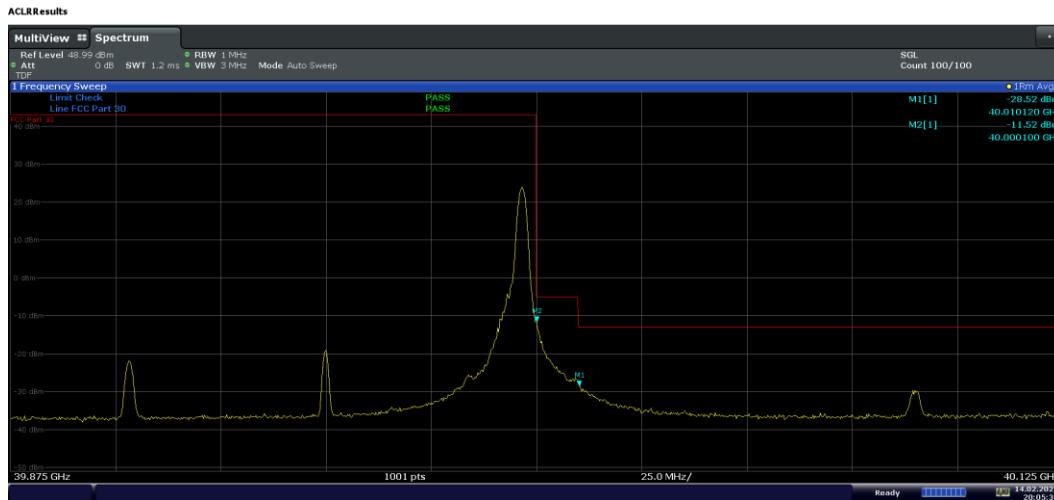


Plot 7-354. Ant M2 Lower BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK 1-L RB)

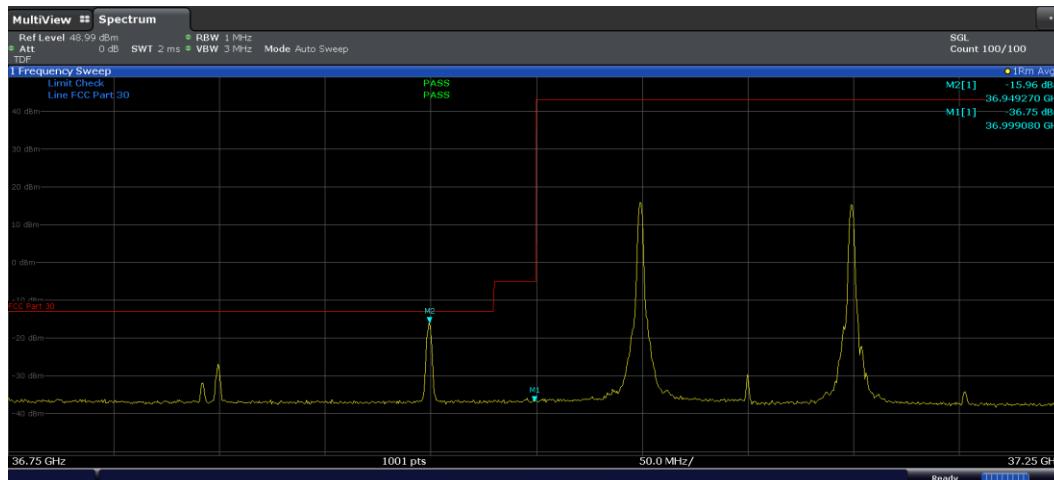


Plot 7-355. Ant M2 Upper BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK Full RB)

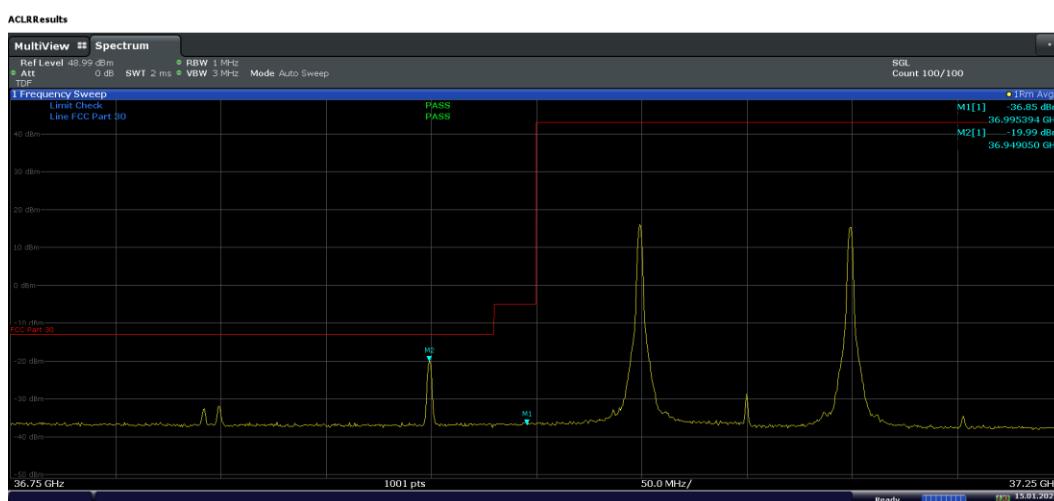
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 175 of 201



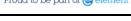
Plot 7-356. Ant M2 Upper BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK 1-H RB)

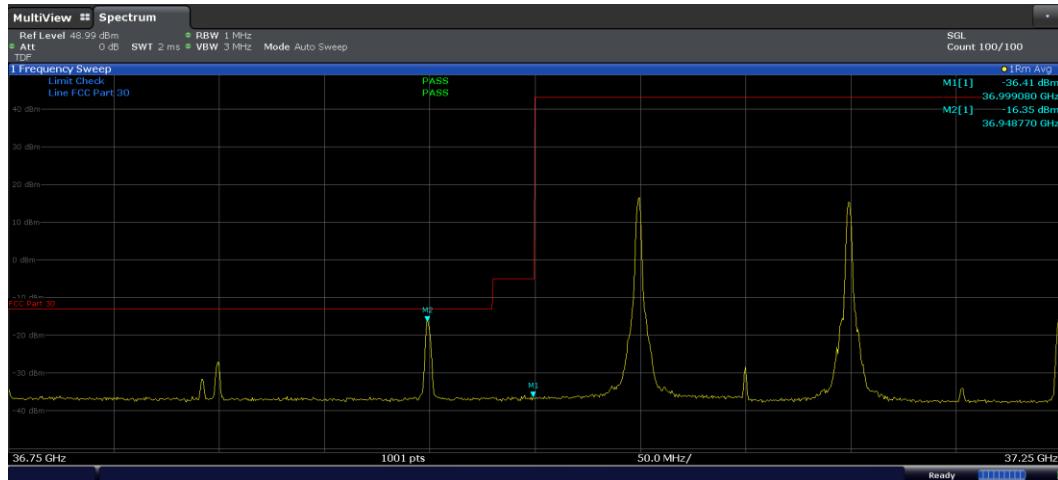


Plot 7-357. Ant M2 Lower BE (Band n260-100+100MHz-2CC SISO CP-OFDM – QPSK 1-M RB)

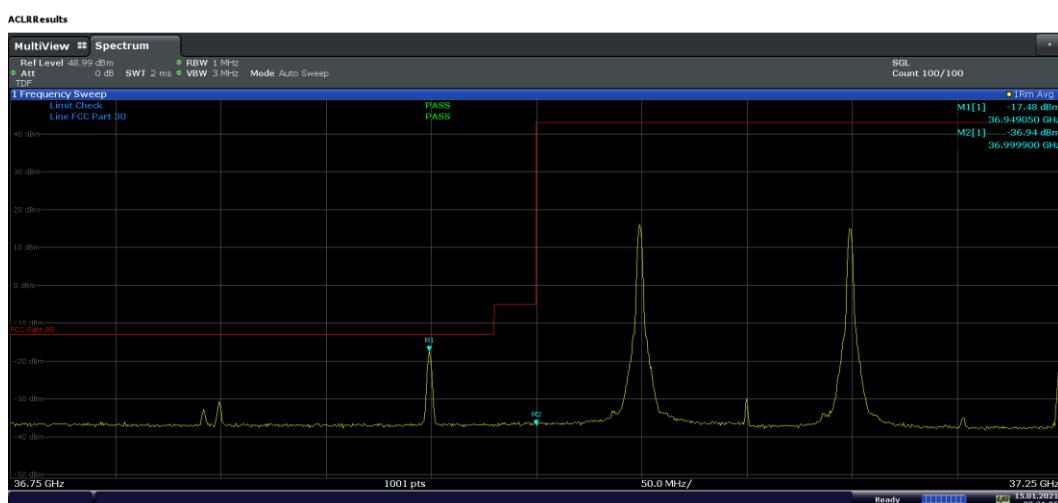


Plot 7-358. Ant M2 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol- BPSK 1-M RB)

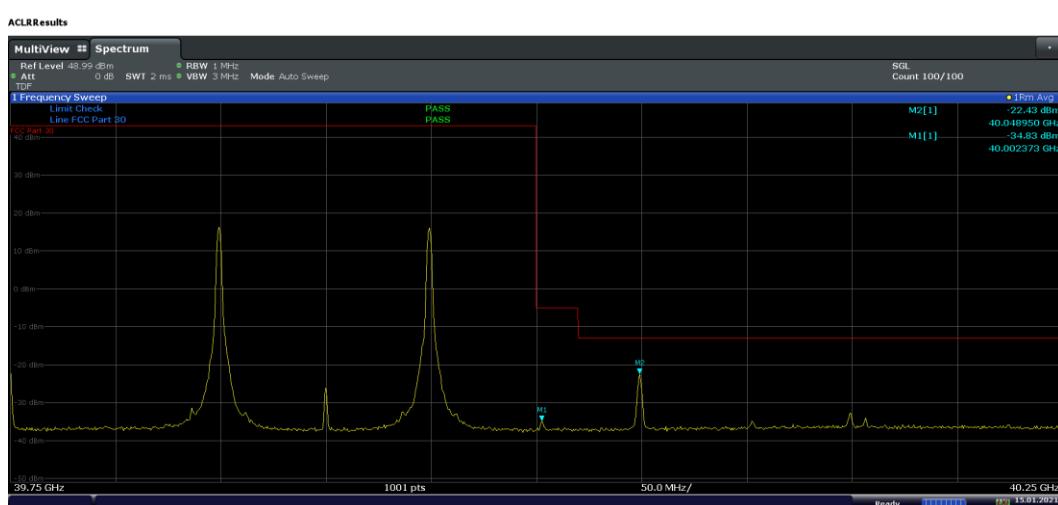
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 176 of 201



Plot 7-359. Ant M2 Lower BE (Band n260-100+100MHz-2CC SISO CP-OFDM – 16QAM 1-M RB)

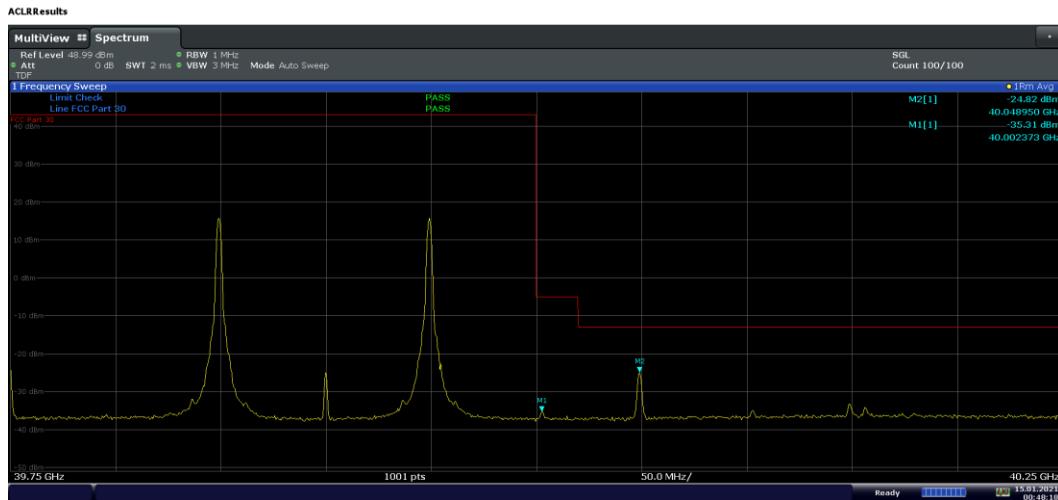


Plot 7-360. Ant M2 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol– 64QAM 1-M RB)

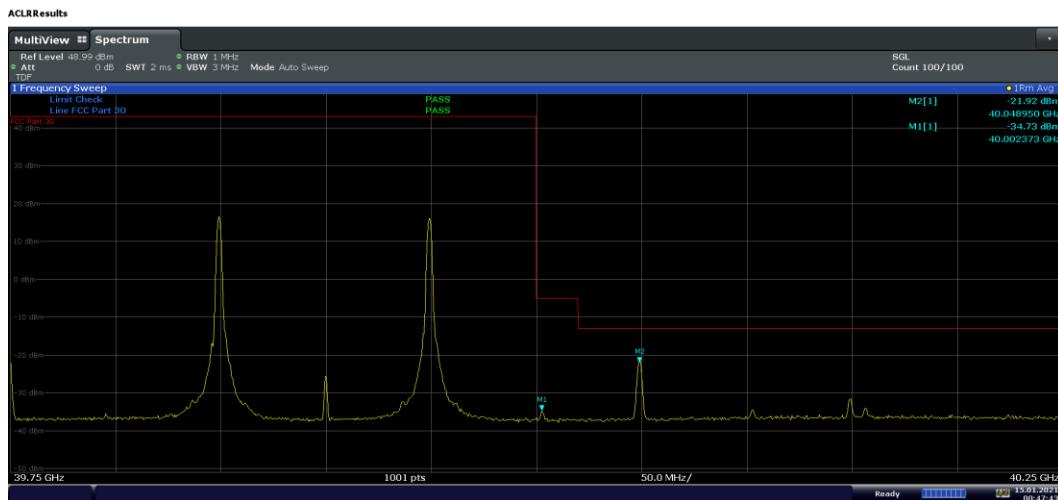


Plot 7-361. Ant M2 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol– QPSK 1-M RB)

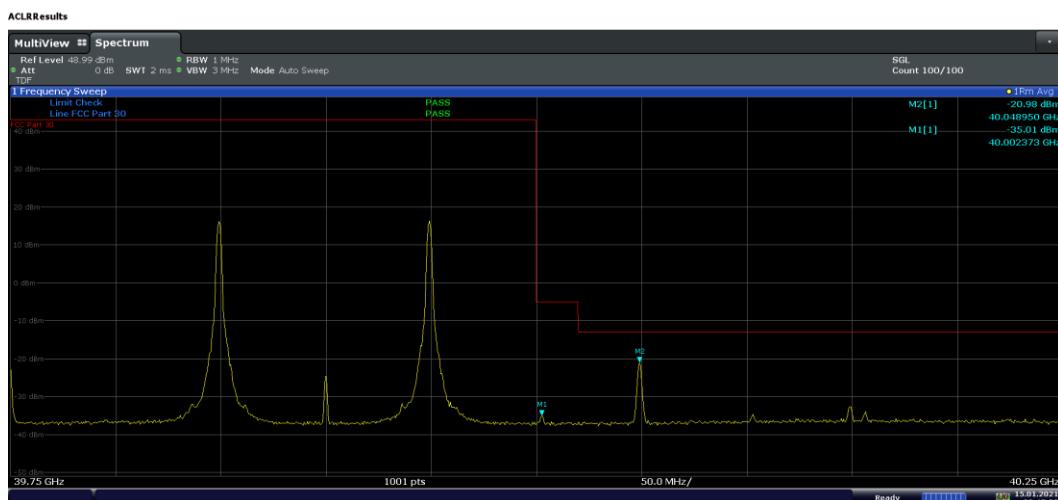
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 177 of 201



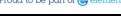
Plot 7-362. Ant M2 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol- BPSK 1-M RB)



Plot 7-363. Ant M2 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol- 16QAM 1-M RB)



Plot 7-364. Ant M2 Upper BE (Band n260-100+100MHz-2CC SISO Dual Pol- 64QAM 1-M RB)

FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 178 of 201

Band n260 Ant M3

Bandwidth (MHz)	CCs Active	Channel	Antenna Diversity	Waveform	Modulation	Peak Beam ID	Paired Beam ID	RB Config	Frequency [GHz]	Average EIRP [dBm]	TRP Limit [dBm]	Margin [dB]
50	1	Low	SISO	CP-OFDM	QPSK	169		Full	36.994	-19.03	-13.00	-6.03
		Low	SISO	CP-OFDM	QPSK	169		1-Low	37.000	-11.83	-5.00	-6.83
		High	SISO	CP-OFDM	QPSK	169		Full	40.006	-18.66	-13.00	-5.66
		High	SISO	CP-OFDM	QPSK	169		1-High	40.005	-20.84	-5.00	-7.84
		Low	SISO	DFT-s-OFDM	QPSK	169		Full	36.992	-17.26	-13.00	-4.26
		Low	SISO	DFT-s-OFDM	QPSK	169		1-Low	37.000	-9.83	-5.00	-4.83
		High	SISO	DFT-s-OFDM	QPSK	169		Full	40.007	-18.24	-13.00	-5.24
		High	SISO	DFT-s-OFDM	QPSK	169		1-High	40.000	-9.69	-5.00	-4.69
		Low	MIMO	CP-OFDM	QPSK	169	41	Full	36.995	-17.43	-13.00	-4.43
		Low	MIMO	CP-OFDM	QPSK	169	41	1-Low	37.000	-12.19	-5.00	-7.19
		High	MIMO	CP-OFDM	QPSK	169	41	Full	40.008	-18.37	-13.00	-5.37
		High	MIMO	CP-OFDM	QPSK	169	41	1-High	40.000	-12.21	-5.00	-7.21
		Low	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	Full	36.994	-14.95	-13.00	-1.95
		Low	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	1-Low	37.000	-8.83	-5.00	-3.83
		High	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	Full	40.007	-15.02	-13.00	-2.02
		High	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	1-High	40.000	-9.79	-5.00	-4.79
50+50	2	Low	SISO	CP-OFDM	QPSK	169		Full	36.976	-25.19	-13.00	-12.19
		Low	SISO	CP-OFDM	QPSK	169		1-Low	36.953	-17.03	-13.00	-4.03
		Low	SISO	CP-OFDM	QPSK	169		1-Mid	36.974	-15.25	-13.00	-2.25
		Low	SISO	CP-OFDM	16QAM	169		1-Low	36.953	-18.51	-13.00	-5.51
		Low	SISO	CP-OFDM	16QAM	169		1-Mid	36.974	-17.26	-13.00	-4.26
		Low	SISO	CP-OFDM	64QAM	169		1-Low	36.953	-20.38	-13.00	-7.38
		Low	SISO	CP-OFDM	64QAM	169		1-Mid	36.974	-18.19	-13.00	-5.19
		High	SISO	CP-OFDM	QPSK	169		Full	40.022	-21.74	-13.00	-8.74
		High	SISO	CP-OFDM	QPSK	169		1-High	40.047	-18.75	-13.00	-5.75
		High	SISO	CP-OFDM	QPSK	169		1-Mid	40.025	-18.43	-13.00	-5.43
		High	SISO	CP-OFDM	16QAM	169		1-High	40.048	-18.42	-13.00	-5.42
		High	SISO	CP-OFDM	16QAM	169		1-Mid	40.024	-16.88	-13.00	-3.88
		High	SISO	CP-OFDM	64QAM	169		1-High	40.047	-17.38	-13.00	-4.38
		High	SISO	CP-OFDM	64QAM	169		1-Mid	40.024	-15.36	-13.00	-2.36
		Low	SISO	DFTs-OFDM	QPSK	169		Full	36.988	-25.58	-13.00	-12.58
		Low	SISO	DFTs-OFDM	QPSK	169		1-Low	36.953	-19.65	-13.00	-6.65
		Low	SISO	DFTs-OFDM	QPSK	169		1-Mid	36.975	-18.78	-13.00	-5.78
		Low	SISO	DFTs-OFDM	1/2 BPSK	169		1-Low	36.953	-20.36	-13.00	-7.36
		Low	SISO	DFTs-OFDM	1/2 BPSK	169		1-Mid	36.974	-19.45	-13.00	-6.45
		Low	SISO	DFTs-OFDM	16QAM	169		1-Low	36.953	-20.01	-13.00	-7.01
		Low	SISO	DFTs-OFDM	16QAM	169		1-Mid	36.975	-18.79	-13.00	-5.79
		Low	SISO	DFTs-OFDM	64QAM	169		1-Low	36.953	-19.30	-13.00	-6.30
		Low	SISO	DFTs-OFDM	64QAM	169		1-Mid	36.974	-17.75	-13.00	-4.75
		High	SISO	DFTs-OFDM	QPSK	169		Full	40.017	-21.64	-13.00	-8.64
		High	SISO	DFTs-OFDM	QPSK	169		1-High	40.047	-19.05	-13.00	-6.05
		High	SISO	DFTs-OFDM	QPSK	169		1-Mid	40.024	-18.90	-13.00	-5.90
		High	SISO	DFTs-OFDM	1/2 BPSK	169		1-High	40.047	-19.50	-13.00	-6.50
		High	SISO	DFTs-OFDM	1/2 BPSK	169		1-Mid	40.024	-19.52	-13.00	-6.52
		High	SISO	DFTs-OFDM	16QAM	169		1-High	40.047	-19.81	-13.00	-6.81
		High	SISO	DFTs-OFDM	16QAM	169		1-Mid	40.024	-19.62	-13.00	-6.62
		High	SISO	DFTs-OFDM	64QAM	169		1-High	40.047	-19.12	-13.00	-6.12
		High	SISO	DFTs-OFDM	64QAM	169		1-Mid	40.024	-19.01	-13.00	-6.01
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	Full	36.978	-25.10	-13.00	-12.10
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-Low	36.953	-16.25	-13.00	-3.25
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-Mid	36.975	-15.86	-13.00	-2.86
		Low	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-Low	36.953	-17.91	-13.00	-4.91
		Low	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-Mid	36.974	-17.54	-13.00	-4.54
		Low	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-Low	36.953	-16.85	-13.00	-3.85
		Low	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-Mid	36.975	-15.03	-13.00	-2.03
		Low	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-Low	36.953	-14.63	-13.00	-1.63
		Low	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-Mid	36.975	-17.64	-13.00	-4.64
		High	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	Full	40.045	-21.60	-13.00	-8.60
		High	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-High	40.047	-20.23	-13.00	-7.23
		High	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-Mid	40.024	-19.91	-13.00	-6.91
		High	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-High	40.047	-20.43	-13.00	-7.43
		High	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-Mid	40.024	-20.63	-13.00	-7.63
		High	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-High	40.047	-18.68	-13.00	-5.68
		High	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-Mid	40.024	-18.67	-13.00	-5.67
		High	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-High	40.047	-16.55	-13.00	-3.55
		High	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-Mid	40.025	-16.69	-13.00	-3.69

Table 7-92. Ant M3 – Band Edge Measurement Table (Band n260 – 50MHz/50+50MHz)

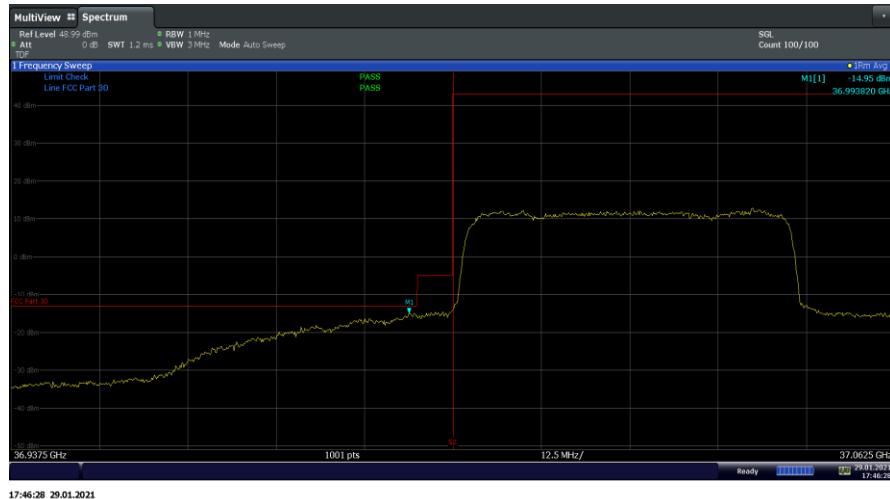
FCC ID: BCGA2379	MEASUREMENT REPORT (CERTIFICATION)						Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device					Page 179 of 201
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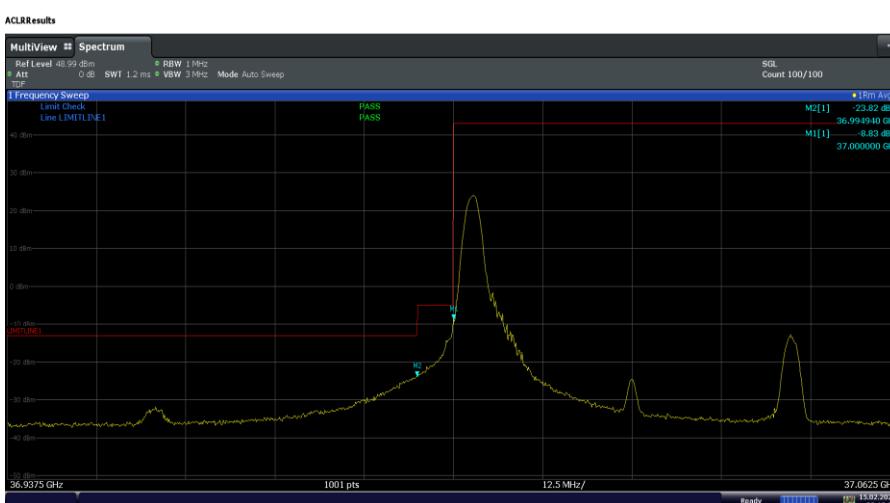
Bandwidth (MHz)	CCs Active	Channel	Antenna Diversity	Waveform	Modulation	Peak Beam ID	Paired Beam ID	RB Config	Frequency [GHz]	Average EIRP [dBm]	TRP Limit [dBm]	Margin [dB]
100	1	Low	SISO	CP-OFDM	QPSK	169		Full	36.990	-21.21	-13.00	-8.21
		Low	SISO	CP-OFDM	QPSK	169		1-Low	37.000	-14.09	-5.00	-9.09
		High	SISO	CP-OFDM	QPSK	169		Full	40.012	-20.09	-13.00	-7.09
		High	SISO	CP-OFDM	QPSK	169		1-High	40.000	-15.51	-5.00	-10.51
		Low	SISO	DFT-s-OFDM	QPSK	169		Full	36.989	-20.83	-13.00	-7.83
		Low	SISO	DFT-s-OFDM	QPSK	169		1-Low	37.000	-11.31	-5.00	-6.31
		High	SISO	DFT-s-OFDM	QPSK	169		Full	40.011	-20.19	-13.00	-7.19
		High	SISO	DFT-s-OFDM	QPSK	169		1-High	40.000	-12.27	-5.00	-7.27
		Low	MIMO	CP-OFDM	QPSK	169	41	Full	36.990	-20.26	-13.00	-7.26
		Low	MIMO	CP-OFDM	QPSK	169	41	1-Low	36.998	-12.09	-5.00	-7.09
		High	MIMO	CP-OFDM	QPSK	169	41	Full	40.010	-19.62	-13.00	-6.62
		High	MIMO	CP-OFDM	QPSK	169	41	1-High	40.000	-13.23	-5.00	-8.23
		Low	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	Full	36.988	-14.89	-13.00	-1.89
		Low	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	1-Low	37.000	-7.83	-5.00	-2.83
		High	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	Full	40.011	-18.56	-13.00	-5.56
		High	SISO Dual Pol	DFT-s-OFDM	QPSK	169	41	1-High	40.000	-10.83	-5.00	-5.83
100+100	2	Low	SISO	CP-OFDM	QPSK	169		Full	36.787	-25.55	-13.00	-12.55
		Low	SISO	CP-OFDM	QPSK	169		1-Low	36.903	-17.18	-13.00	-4.18
		Low	SISO	CP-OFDM	QPSK	169		1-Mid	36.950	-15.82	-13.00	-2.82
		Low	SISO	CP-OFDM	16QAM	169		1-Low	36.904	-18.57	-13.00	-5.57
		Low	SISO	CP-OFDM	16QAM	169		1-Mid	36.949	-17.20	-13.00	-4.20
		Low	SISO	CP-OFDM	64QAM	169		1-Low	36.904	-20.13	-13.00	-7.13
		Low	SISO	CP-OFDM	64QAM	169		1-Mid	36.949	-18.12	-13.00	-5.12
		High	SISO	CP-OFDM	QPSK	169		Full	40.210	-21.45	-13.00	-8.45
		High	SISO	CP-OFDM	QPSK	169		1-High	40.097	-21.05	-13.00	-8.05
		High	SISO	CP-OFDM	QPSK	169		1-Mid	40.050	-19.47	-13.00	-6.47
		High	SISO	CP-OFDM	16QAM	169		1-High	40.097	-21.26	-13.00	-8.26
		High	SISO	CP-OFDM	16QAM	169		1-Mid	40.049	-20.39	-13.00	-7.39
		High	SISO	CP-OFDM	64QAM	169		1-High	40.097	-20.69	-13.00	-7.69
		High	SISO	CP-OFDM	64QAM	169		1-Mid	40.050	-19.58	-13.00	-6.58
		Low	SISO	DFTs-OFDM	QPSK	169		Full	36.778	-25.28	-13.00	-12.28
		Low	SISO	DFTs-OFDM	QPSK	169		1-Low	36.903	-20.91	-13.00	-7.91
		Low	SISO	DFTs-OFDM	QPSK	169		1-Mid	36.949	-18.96	-13.00	-5.96
		Low	SISO	DFTs-OFDM	1/2 BPSK	169		1-Low	36.903	-21.22	-13.00	-8.22
		Low	SISO	DFTs-OFDM	1/2 BPSK	169		1-Mid	36.949	-19.39	-13.00	-6.39
		Low	SISO	DFTs-OFDM	16QAM	169		1-Low	36.903	-21.46	-13.00	-8.46
		Low	SISO	DFTs-OFDM	16QAM	169		1-Mid	36.949	-19.59	-13.00	-6.59
		Low	SISO	DFTs-OFDM	64QAM	169		1-Low	36.904	-20.67	-13.00	-7.67
		Low	SISO	DFTs-OFDM	64QAM	169		1-Mid	36.949	-18.64	-13.00	-5.64
		High	SISO	DFTs-OFDM	QPSK	169		Full	40.047	-21.64	-13.00	-8.64
		High	SISO	DFTs-OFDM	QPSK	169		1-High	40.097	-20.96	-13.00	-7.96
		High	SISO	DFTs-OFDM	QPSK	169		1-Mid	40.049	-20.23	-13.00	-7.23
		High	SISO	DFTs-OFDM	1/2 BPSK	169		1-High	40.097	-20.94	-13.00	-7.94
		High	SISO	DFTs-OFDM	1/2 BPSK	169		1-Mid	40.049	-20.23	-13.00	-7.23
		High	SISO	DFTs-OFDM	16QAM	169		1-High	40.097	-21.23	-13.00	-8.23
		High	SISO	DFTs-OFDM	16QAM	169		1-Mid	40.049	-20.50	-13.00	-7.50
		High	SISO	DFTs-OFDM	64QAM	169		1-High	40.097	-20.44	-13.00	-7.44
		High	SISO	DFTs-OFDM	64QAM	169		1-Mid	40.049	-19.80	-13.00	-6.80
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	Full	36.785	-25.49	-13.00	-12.49
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-Low	36.903	-17.12	-13.00	-4.12
		Low	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-Mid	36.949	-15.77	-13.00	-2.77
		Low	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-Low	36.904	-18.00	-13.00	-5.00
		Low	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-Mid	36.949	-17.00	-13.00	-4.00
		Low	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-Low	36.904	-15.98	-13.00	-2.98
		Low	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-Mid	36.925	-18.52	-13.00	-5.52
		Low	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-Low	36.903	-16.58	-13.00	-3.58
		Low	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-Mid	36.950	-15.45	-13.00	-2.45
		High	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	Full	40.024	-35.92	-13.00	-22.92
		High	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-High	40.000	-21.15	-13.00	-16.15
		High	SISO Dual Pol	DFTs-OFDM	QPSK	169	41	1-Mid	40.049	-27.16	-13.00	-14.16
		High	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-High	40.096	-29.37	-13.00	-16.37
		High	SISO Dual Pol	DFTs-OFDM	1/2 BPSK	169	41	1-Mid	40.049	-28.11	-13.00	-15.11
		High	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-High	40.096	-26.02	-13.00	-13.02
		High	SISO Dual Pol	DFTs-OFDM	16QAM	169	41	1-Mid	40.049	-24.66	-13.00	-11.66
		High	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-High	40.096	-23.57	-13.00	-10.57
		High	SISO Dual Pol	DFTs-OFDM	64QAM	169	41	1-Mid	40.049	-22.87	-13.00	-9.87

Table 7-93. Ant M3 – Band Edge Measurement Table (Band n260 – 100MHz/100+100MHz)

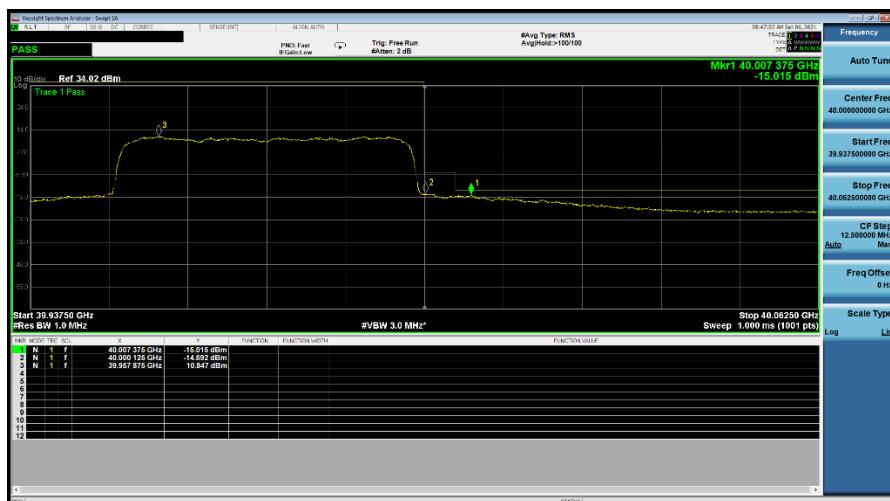
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 180 of 201



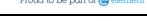
Plot 7-365. Ant M3 Lower BE (Band n260-50MHz-1CC SISO Dual Pol– QPSK Full RB)

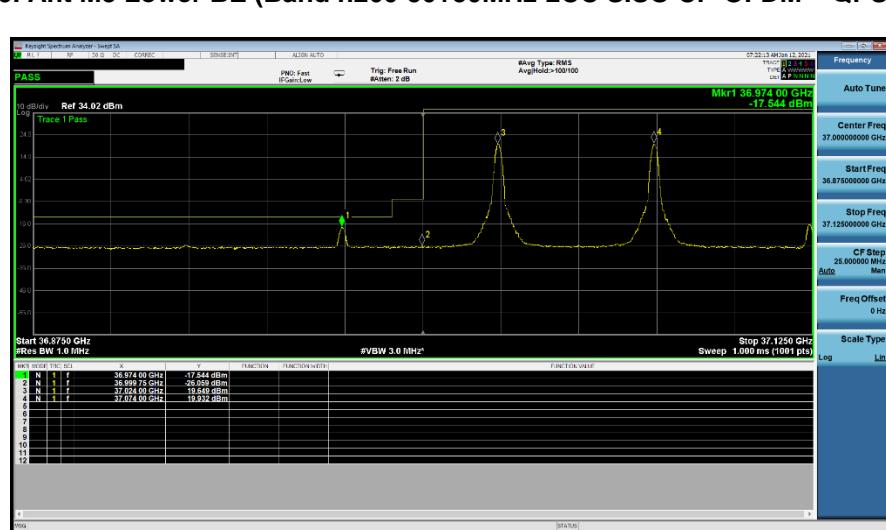
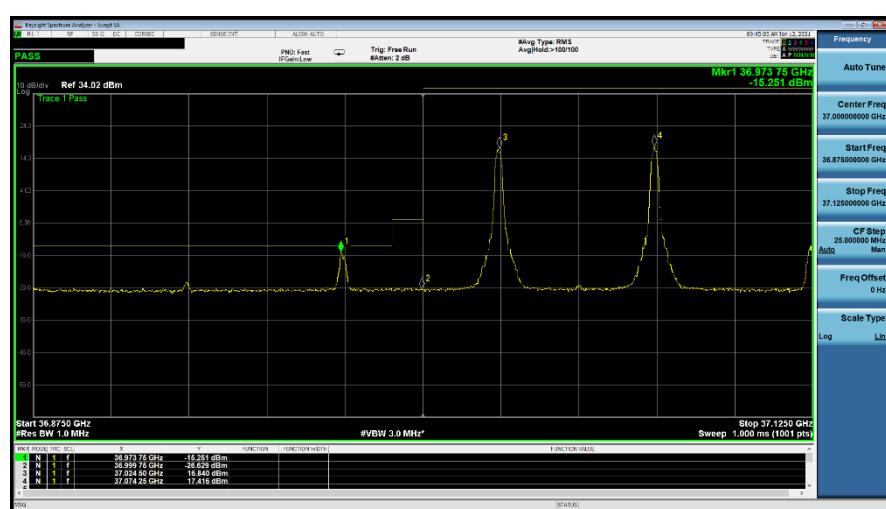
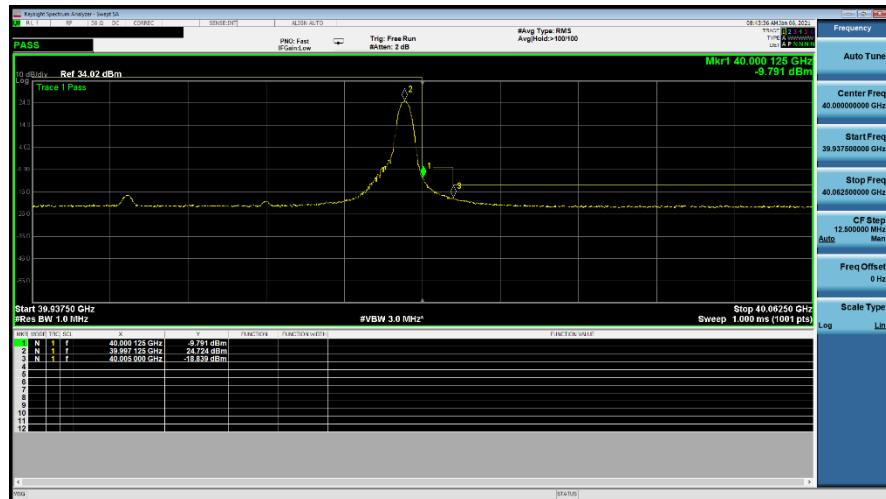


Plot 7-366. Ant M3 Lower BE (Band n260-50MHz-1CC SISO Dual Pol– QPSK 1-L RB)

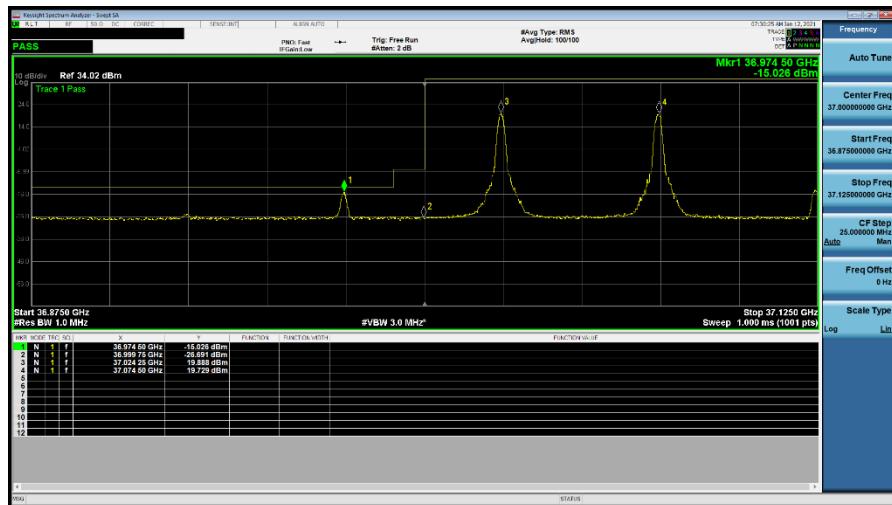


Plot 7-367. Ant M3 Upper BE (Band n260-50MHz-1CC SISO Dual Pol– QPSK Full RB)

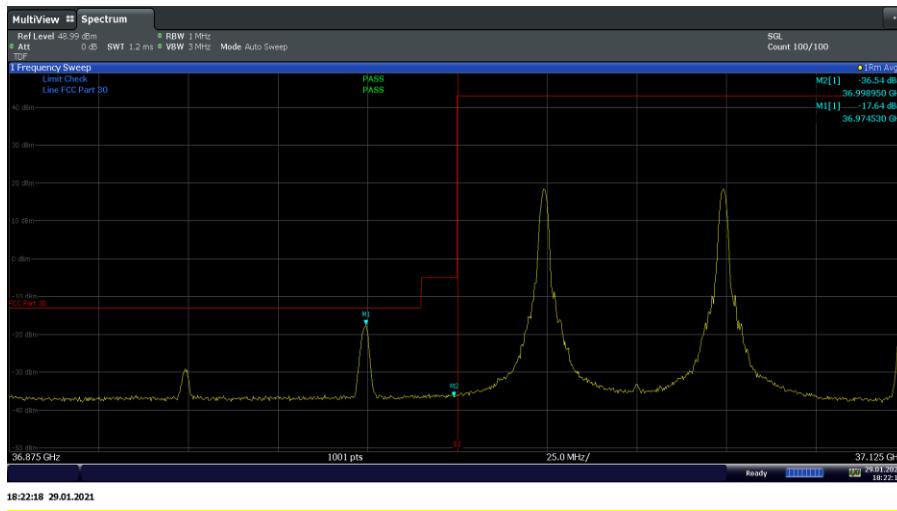
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 181 of 201



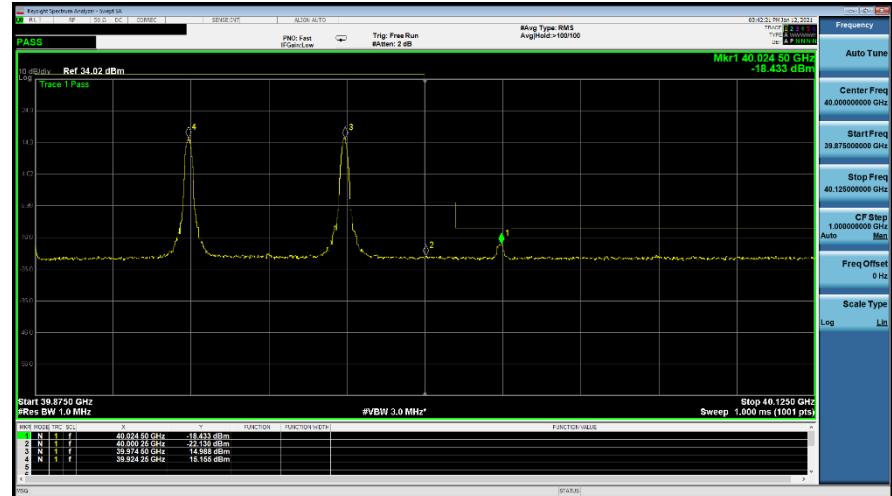
FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 182 of 201



Plot 7-371. Ant M3 Lower BE (Band n260-50+50MHz-2CC SISO Dual Pol- 16QAM 1-M RB)

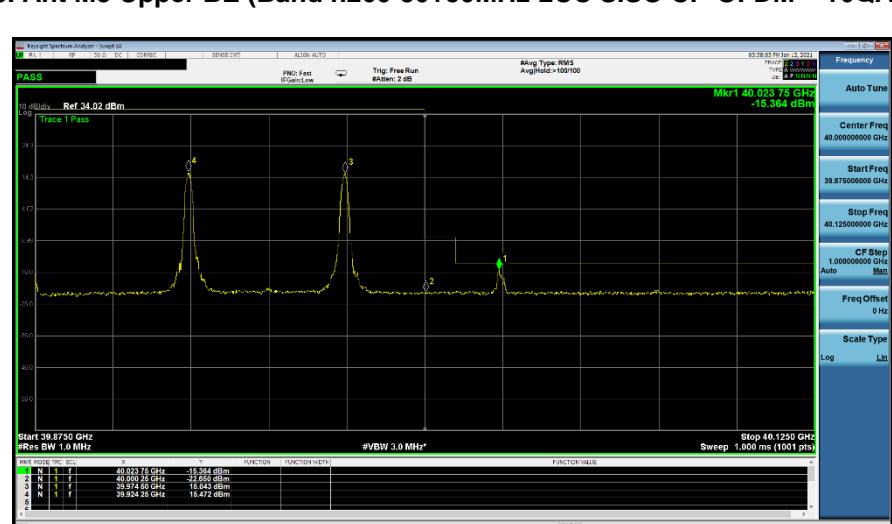
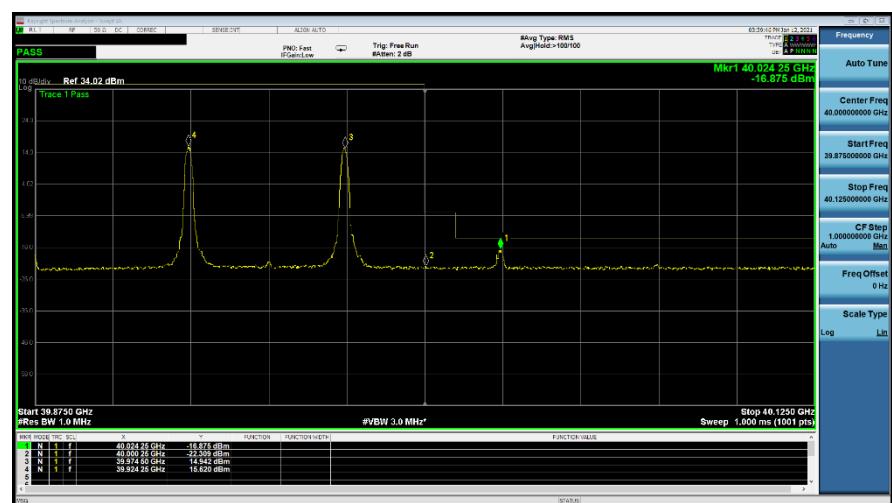
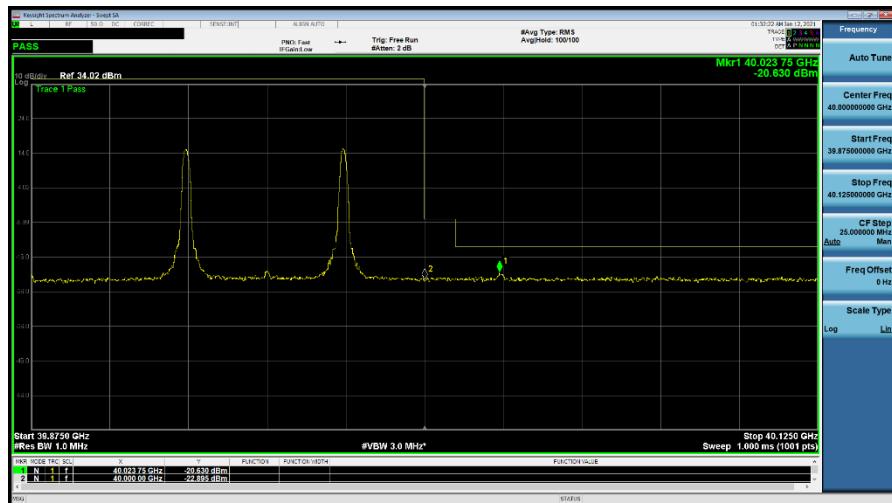


Plot 7-372. Ant M3 Lower BE (Band n260-50+50MHz-2CC SISO Dual Pol- 64QAM 1-M RB)

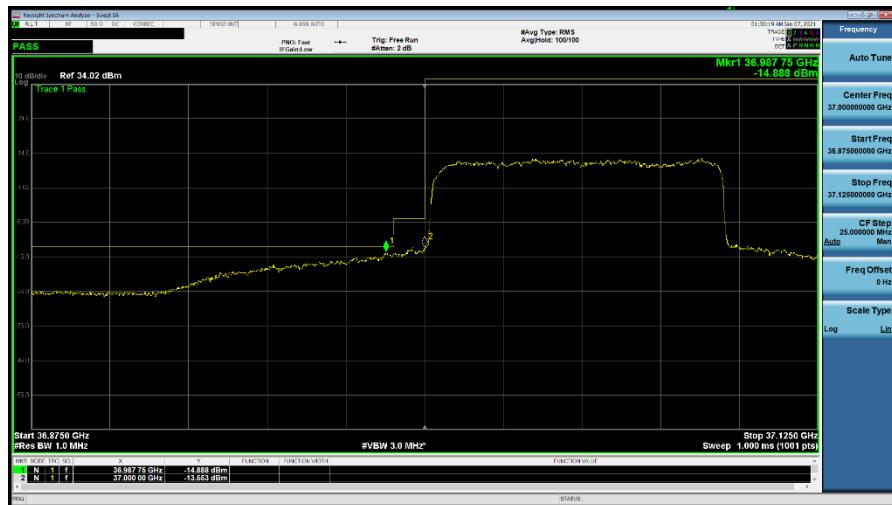


Plot 7-373. Ant M3 Upper BE (Band n260-50+50MHz-2CC SISO CP-OFDM – QPSK 1-M RB)

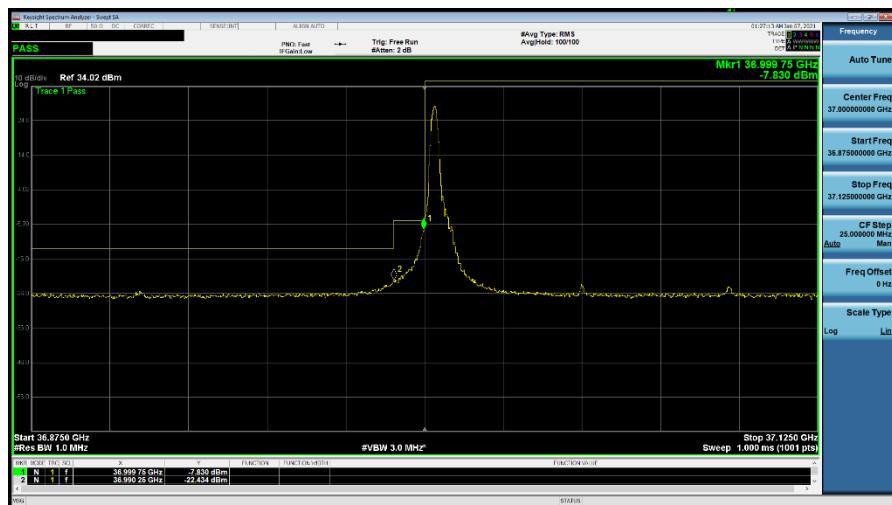
FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 183 of 201



FCC ID: BCGA2379	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 184 of 201



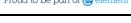
Plot 7-377. Ant M3 Lower BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK Full RB)

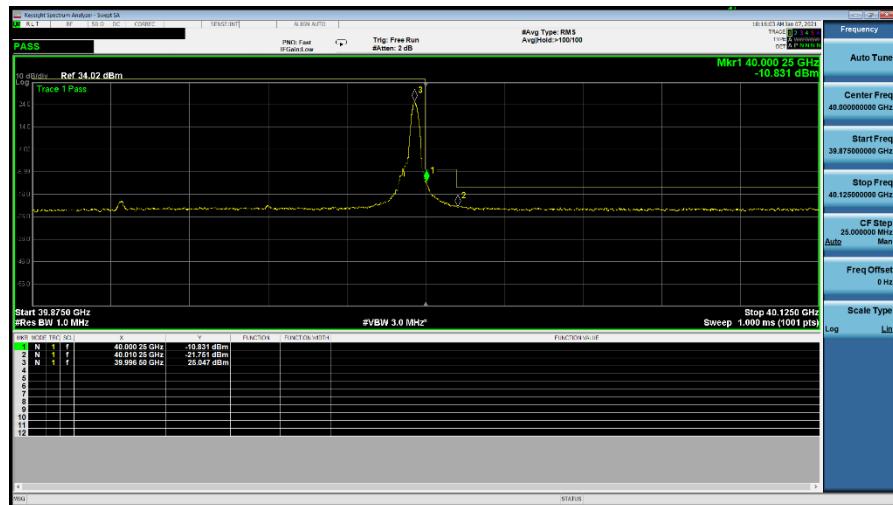


Plot 7-378. Ant M3 Lower BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK 1-L RB)

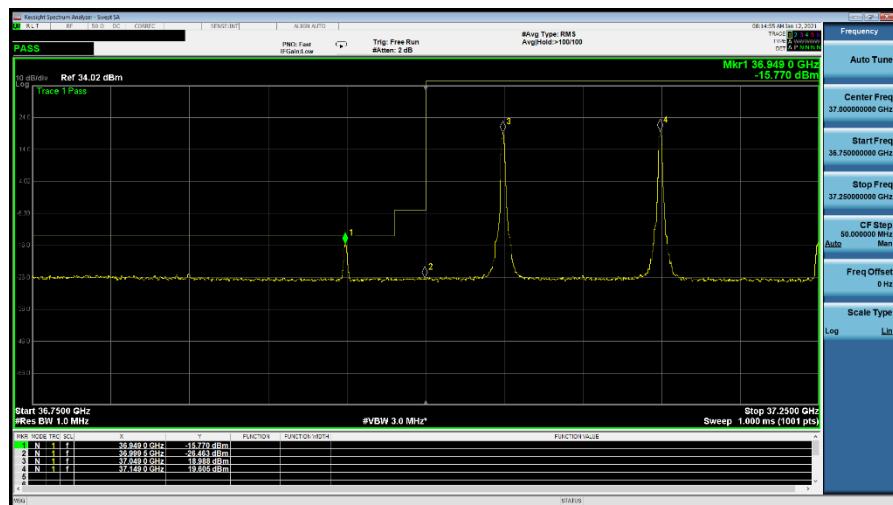


Plot 7-379. Ant M3 Upper BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK Full RB)

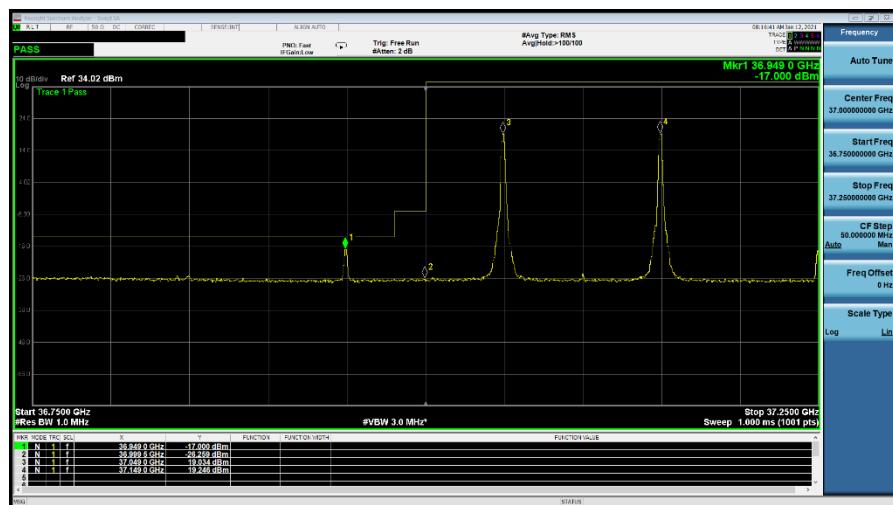
FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 185 of 201



Plot 7-380. Ant M3 Upper BE (Band n260-100MHz-1CC SISO Dual Pol- QPSK 1-H RB)

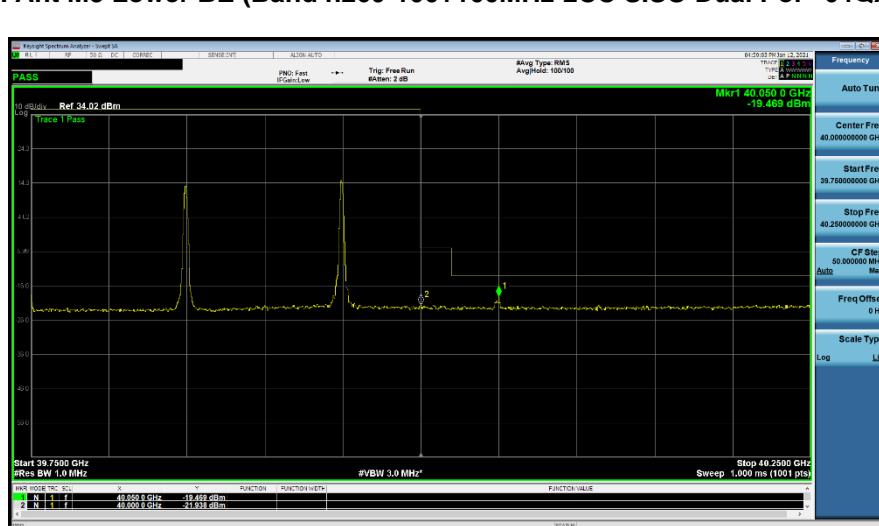
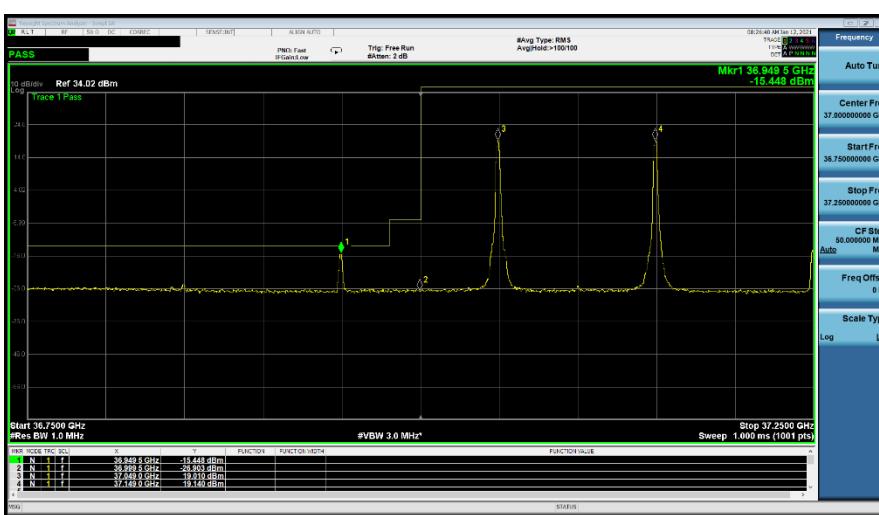
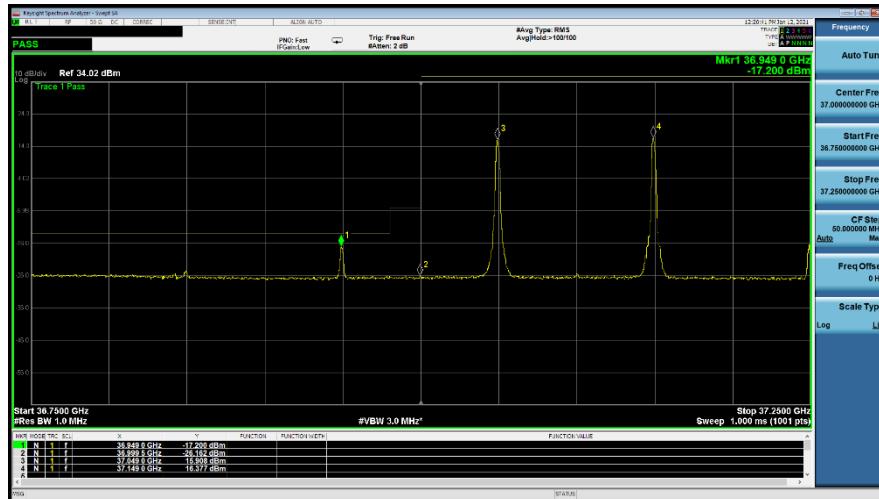


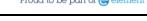
Plot 7-381. Ant M3 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol- QPSK 1-M RB)

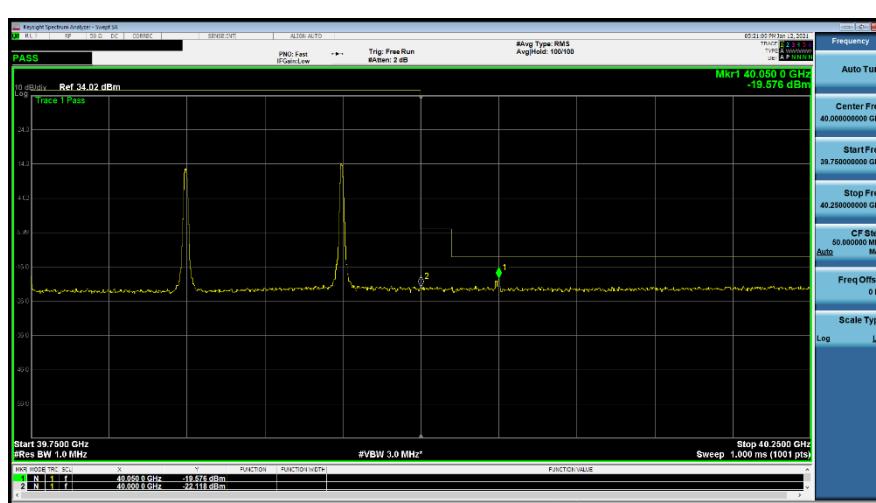
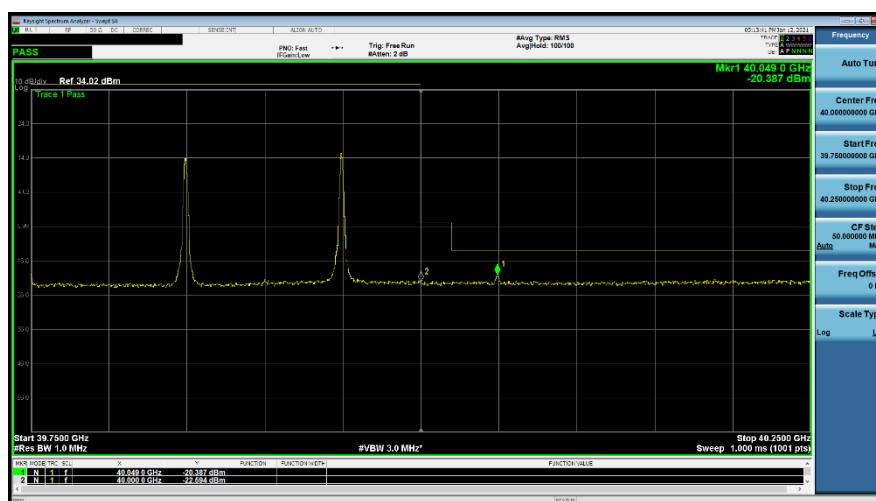
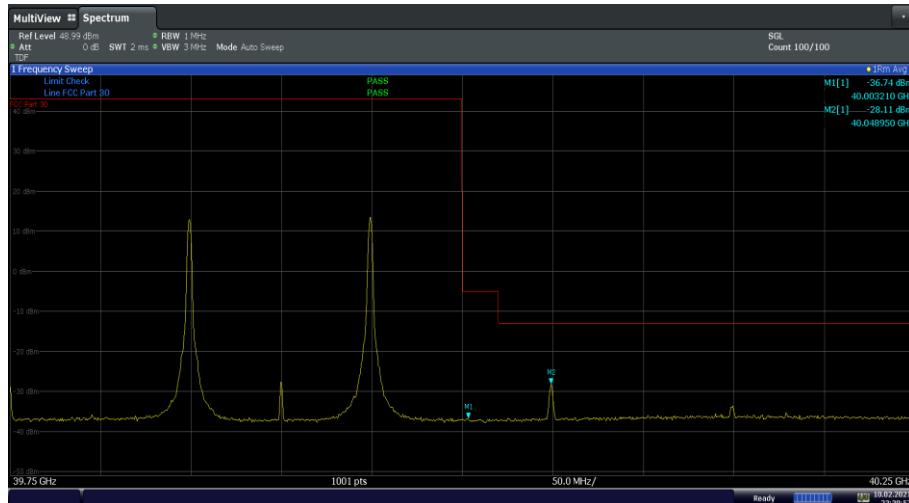


Plot 7-382. Ant M3 Lower BE (Band n260-100+100MHz-2CC SISO Dual Pol- BPSK 1-M RB)

FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 186 of 201



FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 187 of 201



FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 188 of 201	

7.6 Frequency Stability / Temperature Variation

§2.1055

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Test Procedure Used

ANSI C63.5-2015 Section 5.6
 KDB 842590 D01 v01r01 Section 4.5

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was measured using horn antenna connected to a spectrum analyzer. The EUT was placed inside an environmental chamber. Using a foam plug, the horn antenna measured the frequency of the fundamental signal.

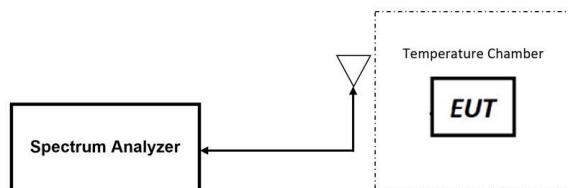
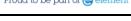


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

- CW signal was used for frequency stability measurement.
- The Frequency Deviation column in the table below is the amount of deviation measured from the center frequency of the Reference temperature.

FCC ID: BCGA2379	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 189 of 201

Frequency Stability Measurements (Band n261-1CC)

§2.1055

OPERATING FREQUENCY: 27,924,960,000 Hz
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	27935016300	5,251	0.0000188
100 %		- 20	27934981895	39,656	0.0001420
100 %		- 10	27934986066	35,485	0.0001270
100 %		0	27934895944	125,607	0.0004496
100 %		+ 10	27934891669	129,882	0.0004649
100 %		+ 20 (Reference)	27935021551	0	0.0000000
100 %		+ 30	27934949231	72,320	0.0002589
100 %		+ 40	27934968187	53,364	0.0001910
100 %		+ 50	27934883358	138,193	0.0004947
Battery Endpoint	3.23	+ 20	27934943530	78,021	0.0002793

Table 7-55. Frequency Stability Data (Band n261-1CC)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in authorized band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in authorized band over the temperature and voltage range as tested.

FCC ID: BCGA2379	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 190 of 201

Frequency Stability Measurements (Band n261-2CC)

§2.1055

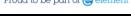
OPERATING FREQUENCY CC1:	27,935,021,756	Hz
OPERATING FREQUENCY CC2:	28034979020	Hz
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY CC1 (Hz)	FREQUENCY CC2 (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	27935020380	28034985969	2,787	0.0000100
100 %		- 20	27934958676	28034927290	-57,405	-0.0002051
100 %		- 10	27935013843	28034930840	-28,047	-0.0001002
100 %		0	27934909805	28034866171	-112,400	-0.0004016
100 %		+ 10	27934970669	28034968764	-30,672	-0.0001096
100 %		+ 20 (Reference)	27935021756	28034979020	0	0.0000000
100 %		+ 30	27934980007	28034954020	-33,375	-0.0001193
100 %		+ 40	27934998622	28034889364	-56,395	-0.0002015
100 %		+ 50	27934883255	28034843292	-137,115	-0.0004900
Battery Endpoint	3.23	+ 20	27934950170	28034910148	-70,229	-0.0002510

Table 7-55. Frequency Stability Data (Band n261-2CC)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in authorized band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in authorized band over the temperature and voltage range as tested.

FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Frequency Stability Measurements (Band n260-1CC)

§2.1055

OPERATING FREQUENCY: 38,499,960,000 Hz
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	38510048905	-3,358	-0.0000120
100 %		- 20	38510035824	9,723	0.0000348
100 %		- 10	38509917431	128,116	0.0004586
100 %		0	38509968057	77,490	0.0002774
100 %		+ 10	38509936890	108,657	0.0003890
100 %		+ 20 (Reference)	38510045547	0	0.0000000
100 %		+ 30	38509880581	164,966	0.0005905
100 %		+ 40	38509856585	188,962	0.0006764
100 %		+ 50	38509854409	191,138	0.0006842
Battery Endpoint	3.23	+ 20	38509940552	104,995	0.0003759

Table 7-56. Frequency Stability Data (Band n260-1CC)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in authorized band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in authorized band over the temperature and voltage range as tested.

FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Frequency Stability Measurements (Band n260-2CC)

§2.1055

OPERATING FREQUENCY CC1:	38,549,960,000	Hz
OPERATING FREQUENCY CC2:	38549960000	Hz
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY CC1 (Hz)	FREQUENCY CC2 (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	38510049443	38610015295	13,056	0.0000339
100 %		- 20	38509896475	38609977753	-82,200	-0.0002132
100 %		- 10	38509993390	38609817773	-113,732	-0.0002949
100 %		0	38509970090	38609883860	-92,339	-0.0002395
100 %		+ 10	38510024394	38609987405	-13,414	-0.0000348
100 %		+ 20 (Reference)	38510039985	38609998642	0	0.0000000
100 %		+ 30	38509857729	38610006088	-87,405	-0.0002267
100 %		+ 40	38510029988	38609815444	-96,598	-0.0002505
100 %		+ 50	38509854326	38609814767	-184,767	-0.0004792
Battery Endpoint	3.23	+ 20	38509942735	38609901872	-97,010	-0.0002516

Table 7-56. Frequency Stability Data (Band n260-2CC)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in authorized band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in authorized band over the temperature and voltage range as tested.

FCC ID: BCGA2379	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2379** complies with all the requirements of Part 30.

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9.0 APPENDIX A

9.1 VDI Mixer Verification Certificate

VDI Mixer WR19SAX Module (40-60 GHz)



Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

Certificate of Conformance

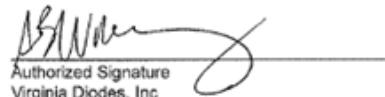
To: PCTEST Engineering Laboratory
18855 Adams Court
Morgan Hill, CA 95037
United States

From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

Packing List No: 203785	Today's Date: 11/04/20
Shipping Date: 10/30/20	PO Number: 201013.AE1

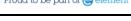
Quantity	Unit	Description	Order-Job Number
1	EA	RETEST-WR19SAX SAX 459	20503-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).



Authorized Signature
Virginia Diodes, Inc

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FCC ID: BCGA2379	 PCTEST [®] Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 195 of 201	

VDI Mixer WR12SAX Module (60-90 GHz)

VDI Mixer WR8.0SAX Module (90-140 GHz)



Virginia Diodes, Inc

979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

Certificate of Conformance

To: PCTEST Engineering Laboratory
18855 Adams Court
Morgan Hill, CA 95037
United States

From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

Packing List No: 203756	Today's Date: 10/30/20
Shipping Date: 10/30/20	PO Number: 201013.AE1

Quantity Shipped	Unit	Description	Order-Job Number
1	EA	RETEST-WR12SAX WR12SAX / SN: SAX 461	20503-02
1	EA	RETEST-WR8.0SAX WR8.0SAX / SN: SAX 462	20503-03

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature
Virginia Diodes, Inc



Page 1 of 1

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Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 196 of 201

VDI Mixer WR5.1SAX Module (140-220 GHz)



Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

Certificate of Conformance

To: PCTEST Engineering Laboratory
18855 Adams Court
Morgan Hill, CA 95037
United States

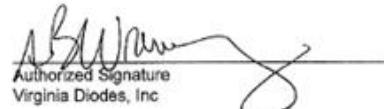
From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

Packing List No: 203777
Shipping Date: 10/30/20

Today's Date: 11/04/20
PO Number: 201013.AE1

Quantity	Unit	Description	Order-Job Number
1	EA	RETEST-WR5.1SAX SAX 463	20503-04

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).



Authorized Signature
Virginia Diodes, Inc.

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9.2 Manufacturer's Antenna Gain Curves for Standard Gain Horn Antennas

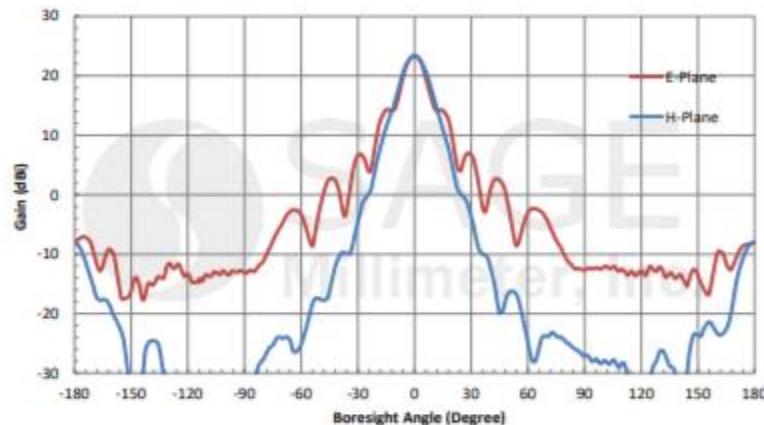
WR-19 Horn Antenna, 23 dBi Gain (40-60 GHz)

SAR-2309-19-S2

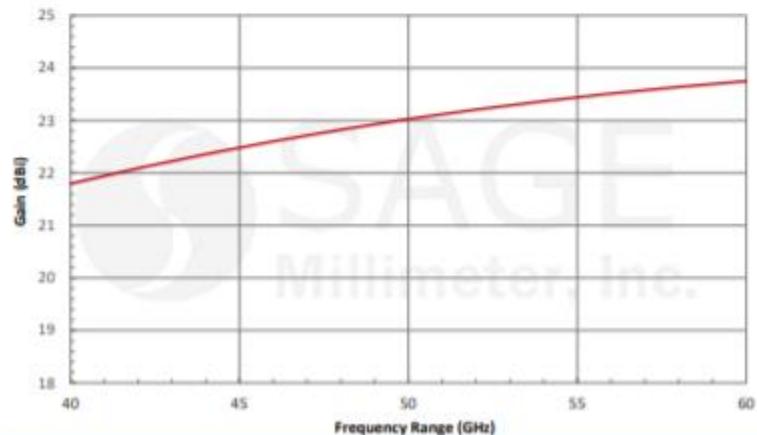
Rev. 1.1

WR-19 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 50 GHz



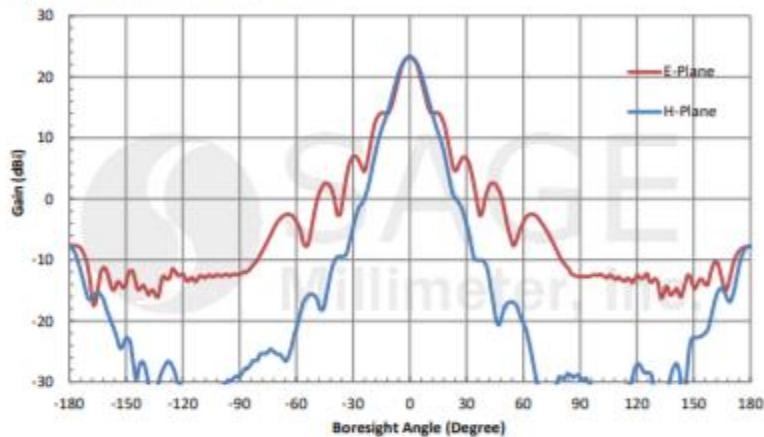
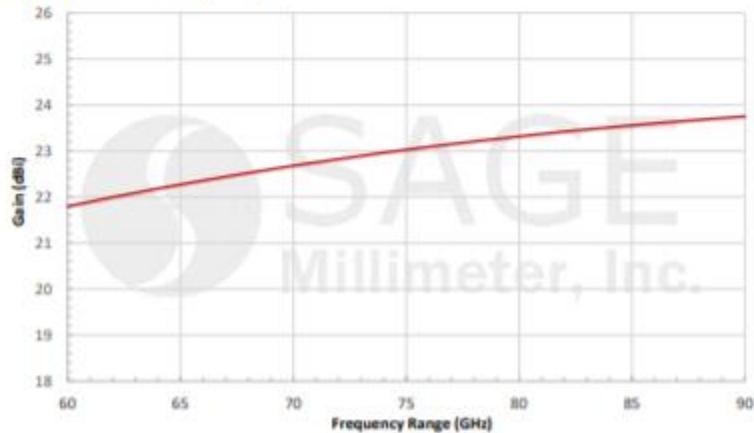
Typical Gain vs. Frequency

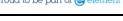


FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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WR-12 Horn Antenna, 23 dBi Gain (60-90 GHz)
SAR-2309-12-S2

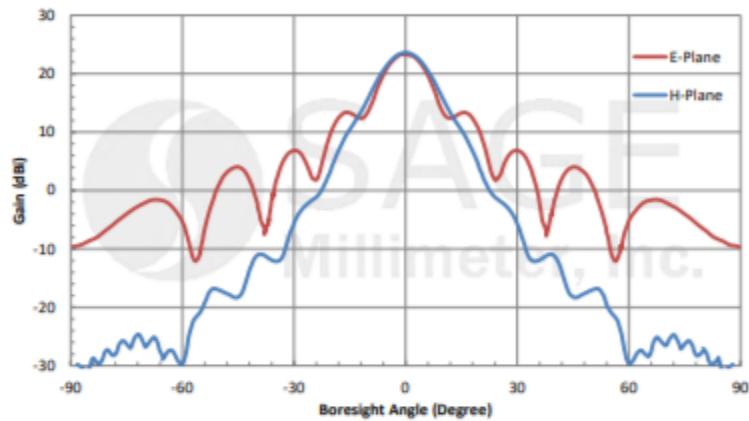
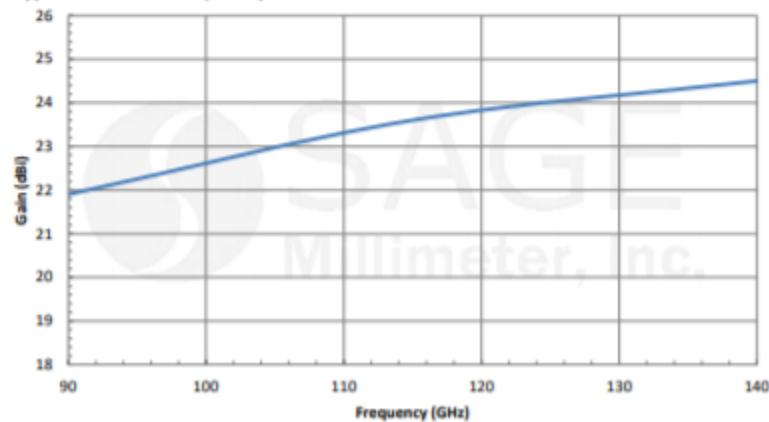
Rev. 1.1

WR-12 Pyramidal Horn Antenna, 23 dBi Gain
Typical Antenna Pattern @ 75 GHz

Typical Gain vs. Frequency


FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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WR-08 Horn Antenna, 23 dBi Gain (90-140 GHz)
SAR-2309-08-S2

Rev. 1.1

WR-08 Pyramidal Horn Antenna, 23 dBi Gain
Typical Antenna Pattern @ 115 GHz

Typical Gain vs. Frequency


FCC ID: BCGA2379	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device	Page 200 of 201

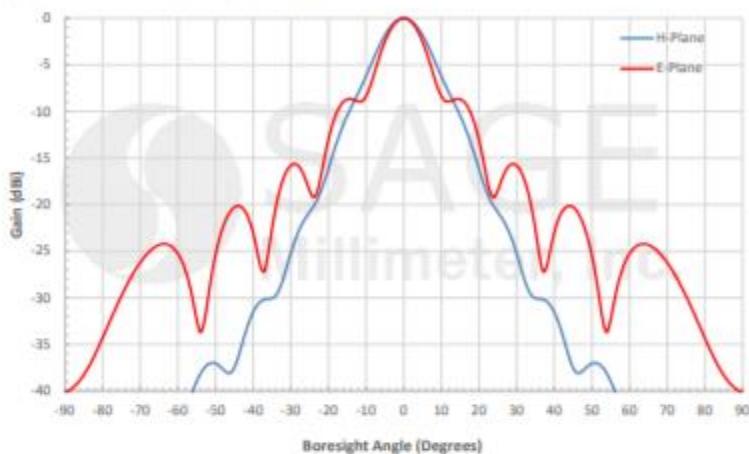
WR-05 Horn Antenna, 23 dBi Gain (140-220 GHz)

SAR-2309-05-S2

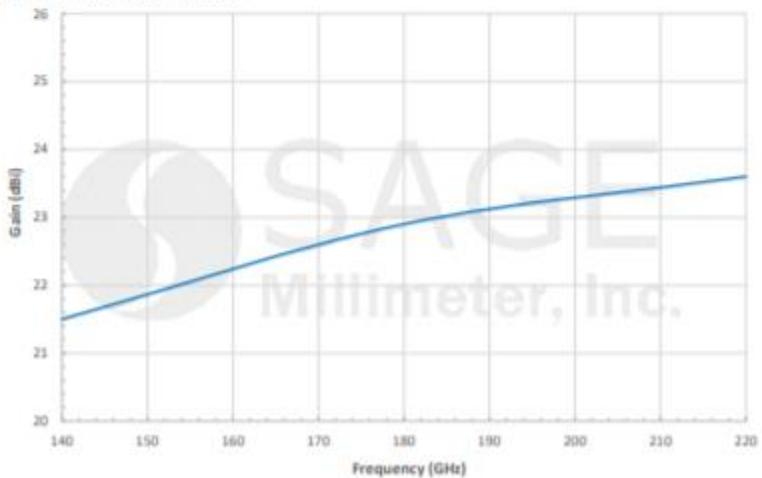
Rev. 1.1

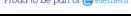
WR-05 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 180 GHz



Typical Gain vs. Frequency



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Test Report S/N: 1C2101020005-06.BCG	Test Dates: 12/15/2020-03/03/2021	EUT Type: Tablet Device		Page 201 of 201