



FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 241 of 432



Plot 7-383. PSD TxBF Diversity Antenna 4a (NB UNII HDT4, ePA – 5203MHz)



Plot 7-384. PSD TxBF Diversity Antenna 2a (NB UNII HDT4, ePA – 5203MHz)

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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 242 of 432

V 11.0 06/2025

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Plot 7-385. PSD TxBF Diversity Antenna 4a (NB UNII HDT4, iPA – 5203MHz)



Plot 7-386. PSD TxBF Diversity Antenna 2a (NB UNII HDT4, iPA – 5203MHz)

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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 243 of 432

V 11.0 06/2025

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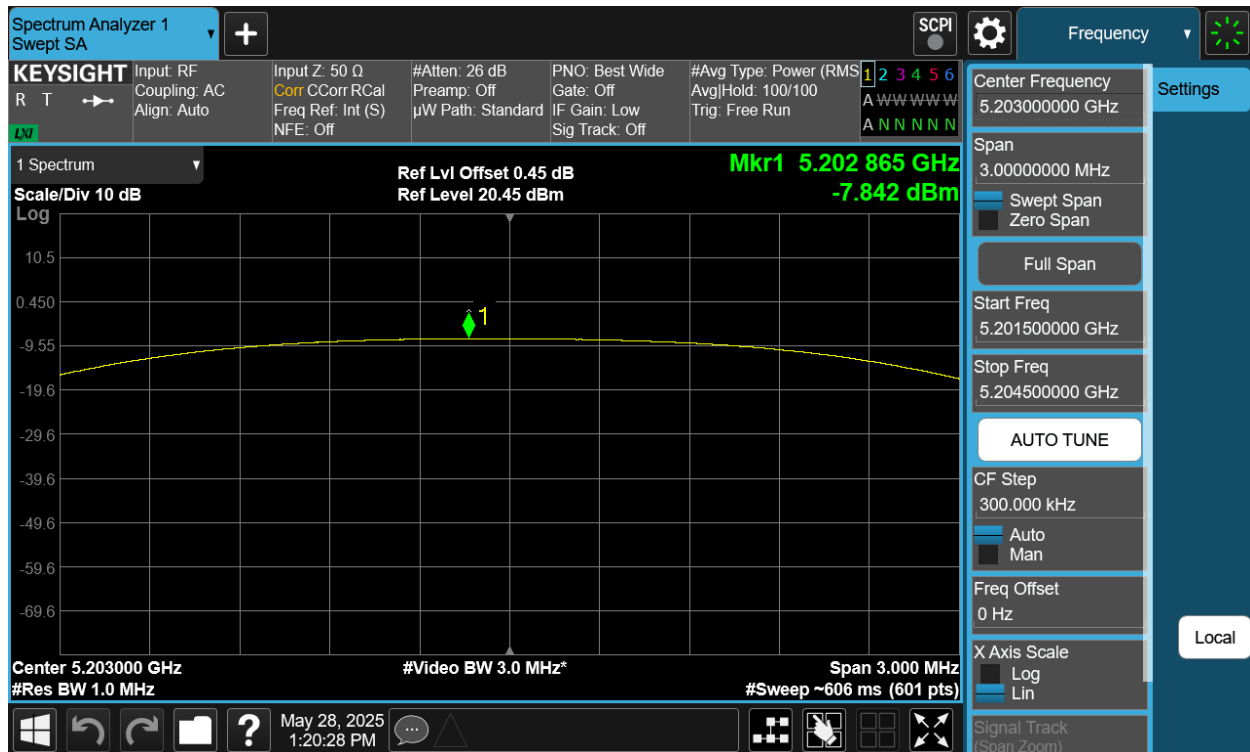


Plot 7-387. PSD TxBF Diversity Antenna 4a (NB UNII HDT6, ePA – 5203MHz)



Plot 7-388. PSD TxBF Diversity Antenna 2a (NB UNII HDT6, ePA – 5203MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 244 of 432



FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 245 of 432

V 11.0 06/2025

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7.5.10 TxBF Diversity Power Spectral Density Measurements (U-NII-3)

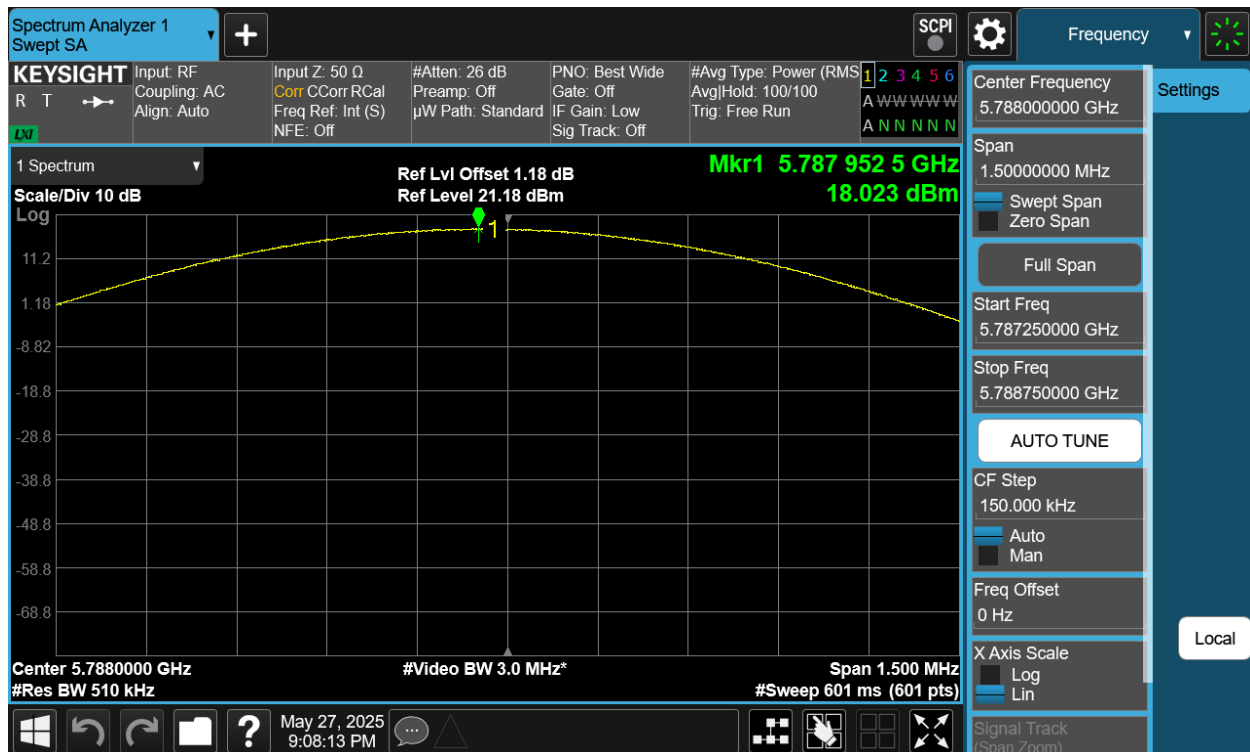
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna 4a Power Density [dBm/500kHz]	Antenna 2a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
5733	1.0	NB UNII BDR	ePA	18.60	17.00	20.88	30.00	-9.12
5788	1.0	NB UNII BDR	ePA	18.02	16.97	20.54	30.00	-9.46
5844	1.0	NB UNII BDR	ePA	18.11	16.57	20.42	30.00	-9.58
5733	1.0	NB UNII BDR	iPA	2.96	0.47	4.90	30.00	-25.10
5788	1.0	NB UNII BDR	iPA	3.49	0.54	5.27	30.00	-24.73
5844	1.0	NB UNII BDR	iPA	5.41	0.70	6.67	30.00	-23.33
5733	1.0	NB UNII LE1M	ePA	17.50	16.34	19.97	30.00	-10.03
5788	1.0	NB UNII LE1M	ePA	17.48	16.26	19.92	30.00	-10.08
5844	1.0	NB UNII LE1M	ePA	17.68	15.80	19.85	30.00	-10.15
5733	1.0	NB UNII LE1M	iPA	1.79	-0.08	3.96	30.00	-26.04
5788	1.0	NB UNII LE1M	iPA	3.03	0.00	4.79	30.00	-25.21
5844	1.0	NB UNII LE1M	iPA	4.45	0.19	5.83	30.00	-24.17
5733	2.0	NB UNII LE2M	ePA	15.44	14.80	18.14	30.00	-11.86
5788	2.0	NB UNII LE2M	ePA	15.63	14.69	18.20	30.00	-11.80
5844	2.0	NB UNII LE2M	ePA	15.04	14.53	17.80	30.00	-12.20
5733	2.0	NB UNII LE2M	iPA	0.31	-2.03	2.31	30.00	-27.69
5788	2.0	NB UNII LE2M	iPA	1.27	-2.00	2.95	30.00	-27.05
5844	2.0	NB UNII LE2M	iPA	2.07	-1.66	3.60	30.00	-26.40
5733	4.0	NB UNII HDR4	ePA	8.93	7.94	11.48	30.00	-18.52
5788	4.0	NB UNII HDR4	ePA	9.12	7.40	11.36	30.00	-18.64
5844	4.0	NB UNII HDR4	ePA	8.51	7.62	11.10	30.00	-18.90
5733	4.0	NB UNII HDR4	iPA	-5.35	-6.94	-3.06	30.00	-33.06
5788	4.0	NB UNII HDR4	iPA	-3.76	-6.93	-2.05	30.00	-32.05
5844	4.0	NB UNII HDR4	iPA	-3.65	-6.55	-1.85	30.00	-31.85
5733	8.0	NB UNII HDR8	ePA	6.39	4.42	8.53	30.00	-21.47
5788	8.0	NB UNII HDR8	ePA	6.53	3.94	8.43	30.00	-21.57
5844	8.0	NB UNII HDR8	ePA	6.39	4.26	8.46	30.00	-21.54
5733	8.0	NB UNII HDR8	iPA	-6.15	-10.54	-4.80	30.00	-34.80
5788	8.0	NB UNII HDR8	iPA	-6.16	-10.46	-4.79	30.00	-34.79
5844	8.0	NB UNII HDR8	iPA	-6.64	-9.91	-4.96	30.00	-34.96
5733	2.0	NB UNII HDRPS2	ePA	8.87	7.26	11.15	30.00	-18.85
5788	2.0	NB UNII HDRPS2	ePA	8.89	7.50	11.26	30.00	-18.74
5844	2.0	NB UNII HDRPS2	ePA	9.11	7.54	11.41	30.00	-18.59
5733	2.0	NB UNII HDRPS2	iPA	-4.69	-8.05	-3.04	30.00	-33.04
5788	2.0	NB UNII HDRPS2	iPA	-4.66	-7.91	-2.98	30.00	-32.98
5844	2.0	NB UNII HDRPS2	iPA	-4.27	-7.80	-2.67	30.00	-32.67
5733	6.0	NB UNII XHDRPM6	ePA	5.82	5.14	8.50	30.00	-21.50
5788	6.0	NB UNII XHDRPM6	ePA	5.78	4.42	8.17	30.00	-21.83
5844	6.0	NB UNII XHDRPM6	ePA	5.70	4.42	8.11	30.00	-21.89
5733	6.0	NB UNII XHDRPM6	iPA	-8.28	-9.35	-5.77	30.00	-35.77
5788	6.0	NB UNII XHDRPM6	iPA	-8.13	-9.79	-5.87	30.00	-35.87
5844	6.0	NB UNII XHDRPM6	iPA	-6.67	-9.41	-4.82	30.00	-34.82
5733	16.0	NB UNII HDRPM16	ePA	3.20	2.77	6.00	30.00	-24.00
5788	16.0	NB UNII HDRPM16	ePA	3.81	3.04	6.45	30.00	-23.55
5844	16.0	NB UNII HDRPM16	ePA	3.39	3.07	6.24	30.00	-23.76
5733	16.0	NB UNII HDRPM16	iPA	-11.67	-12.67	-9.13	30.00	-39.13
5788	16.0	NB UNII HDRPM16	iPA	-10.64	-12.61	-8.50	30.00	-38.50
5844	16.0	NB UNII HDRPM16	iPA	-8.64	-12.32	-7.09	30.00	-37.09
5733	12.0	NB UNII HDRPL12	ePA	2.66	1.48	5.12	30.00	-24.88
5788	12.0	NB UNII HDRPL12	ePA	2.67	1.83	5.28	30.00	-24.72
5844	12.0	NB UNII HDRPL12	ePA	2.62	1.83	5.25	30.00	-24.75
5733	12.0	NB UNII HDRPL12	iPA	-11.89	-12.33	-9.10	30.00	-39.10
5788	12.0	NB UNII HDRPL12	iPA	-10.74	-12.32	-8.45	30.00	-38.45
5844	12.0	NB UNII HDRPL12	iPA	-8.85	-12.51	-7.29	30.00	-37.29
5733	32.0	NB UNII HDRPL32	ePA	0.85	0.16	3.53	30.00	-26.47
5788	32.0	NB UNII HDRPL32	ePA	0.87	0.03	3.48	30.00	-26.52
5844	32.0	NB UNII HDRPL32	ePA	0.90	0.05	3.50	30.00	-26.50
5733	32.0	NB UNII HDRPL32	iPA	-14.67	-15.18	-11.91	30.00	-41.91
5788	32.0	NB UNII HDRPL32	iPA	-13.56	-15.70	-11.49	30.00	-41.49
5844	32.0	NB UNII HDRPL32	iPA	-11.08	-15.30	-9.69	30.00	-39.69
5733	2.0	NB UNII HDT2	ePA	8.58	7.63	11.14	30.00	-18.86
5788	2.0	NB UNII HDT2	ePA	8.51	7.46	11.02	30.00	-18.98
5844	2.0	NB UNII HDT2	ePA	8.35	7.91	11.15	30.00	-18.85
5733	2.0	NB UNII HDT2	iPA	-5.89	-6.82	-3.32	30.00	-33.32
5788	2.0	NB UNII HDT2	iPA	-4.78	-6.85	-2.68	30.00	-32.68
5844	2.0	NB UNII HDT2	iPA	-2.86	-6.55	-1.32	30.00	-31.32
5733	4.0	NB UNII HDT4	ePA	8.52	7.58	11.08	30.00	-18.92
5788	4.0	NB UNII HDT4	ePA	8.46	7.41	10.98	30.00	-19.02
5844	4.0	NB UNII HDT4	ePA	8.34	7.86	11.12	30.00	-18.88
5733	4.0	NB UNII HDT4	iPA	-5.90	-6.89	-3.35	30.00	-33.35
5788	4.0	NB UNII HDT4	iPA	-4.78	-6.94	-2.72	30.00	-32.72
5844	4.0	NB UNII HDT4	iPA	-2.90	-6.60	-1.36	30.00	-31.36
5733	6.0	NB UNII HDT6	ePA	6.55	5.83	9.22	30.00	-20.78
5788	6.0	NB UNII HDT6	ePA	6.54	5.61	9.11	30.00	-20.89
5844	6.0	NB UNII HDT6	ePA	6.45	5.52	9.02	30.00	-20.98
5733	6.0	NB UNII HDT6	iPA	-8.95	-9.99	-6.43	30.00	-36.43
5788	6.0	NB UNII HDT6	iPA	-7.79	-9.97	-5.74	30.00	-35.74
5844	6.0	NB UNII HDT6	iPA	-5.85	-9.55	-4.30	30.00	-34.30

Table 7-27. Power Spectral Density Measurements TxBF

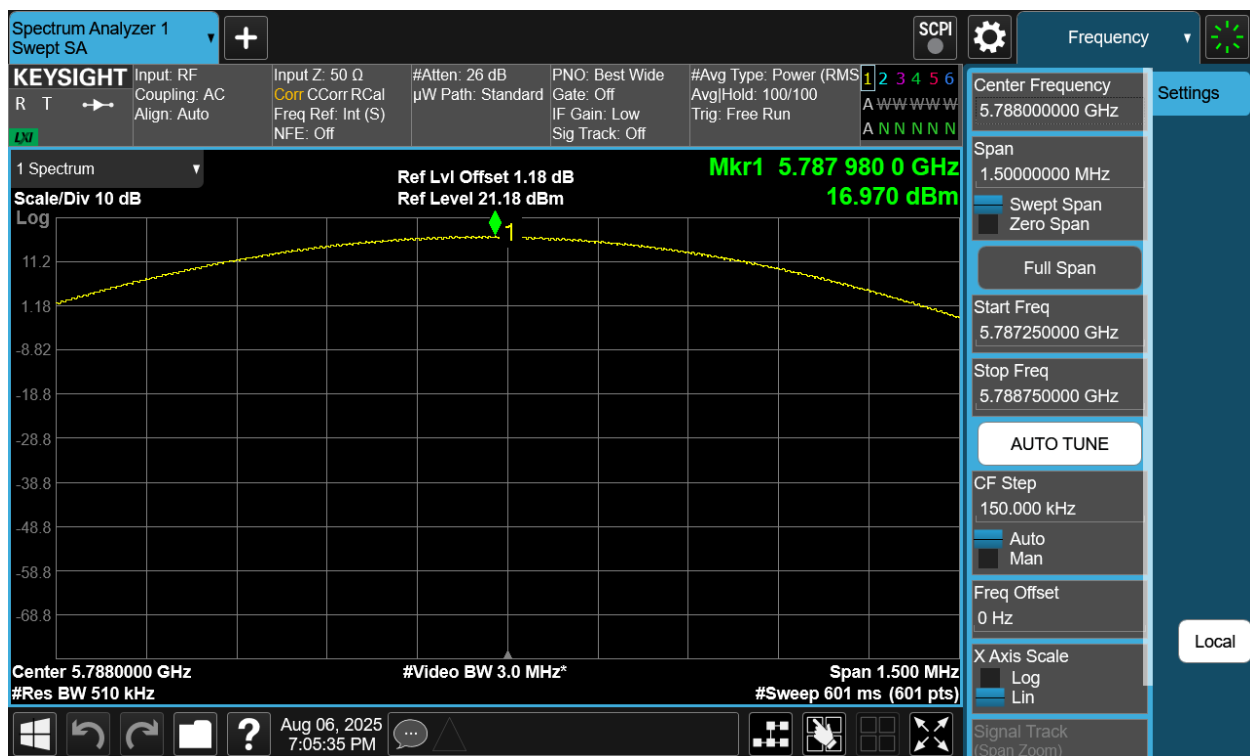
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 246 of 432

V 11.0 06/2025

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Plot 7-391. PSD Tx B F Diversity Antenna 4a (NB UNII BDR, ePA – 5788MHz)



Plot 7-392. PSD Tx B F Diversity Antenna 2a (NB UNII BDR, ePA – 5788MHz)

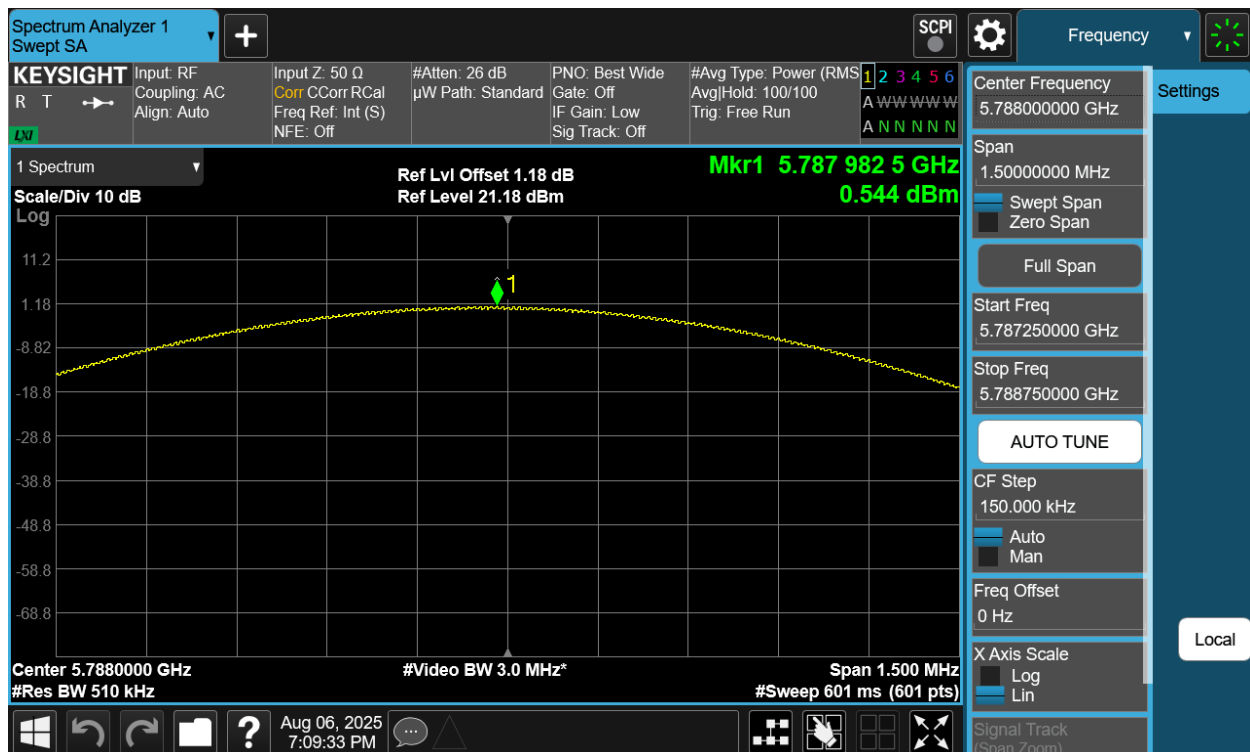
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 247 of 432

V 11.0 06/2025

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Plot 7-393. PSD Tx BF Diversity Antenna 4a (NB UNII BDR, iPA – 5788MHz)

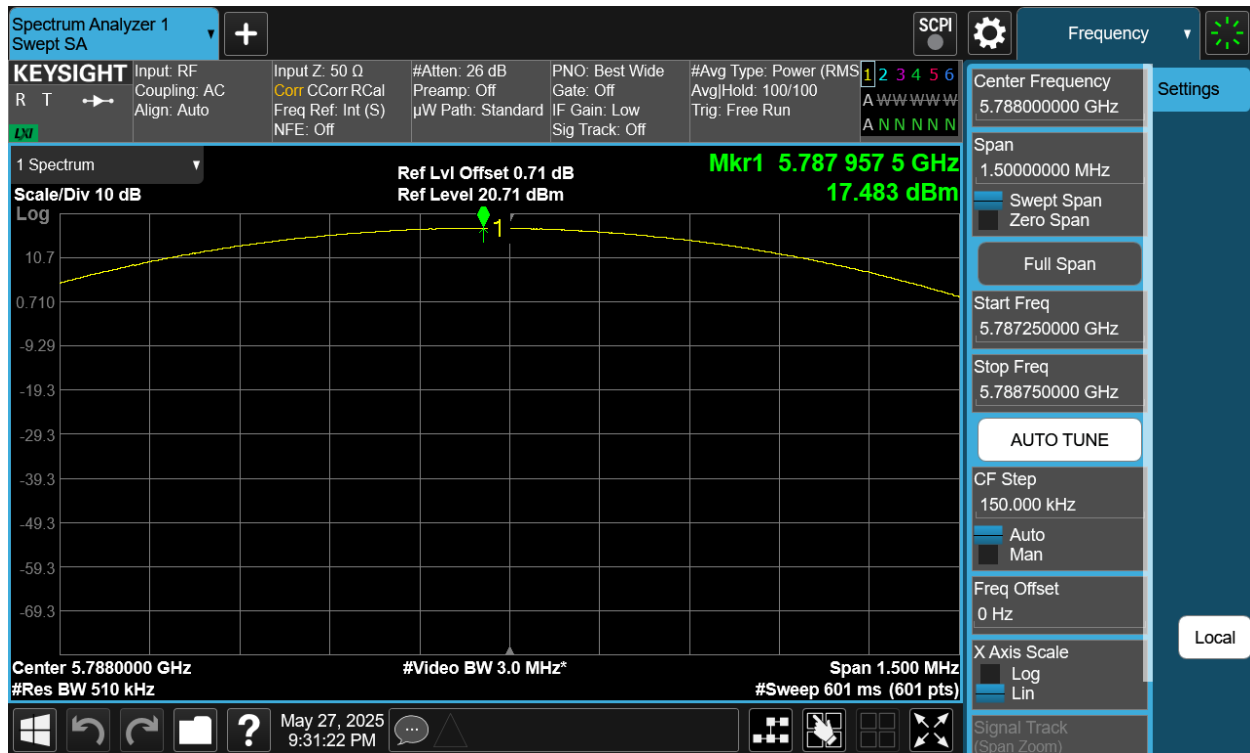


Plot 7-394. PSD Tx BF Diversity Antenna 2a (NB UNII BDR, iPA – 5788MHz)

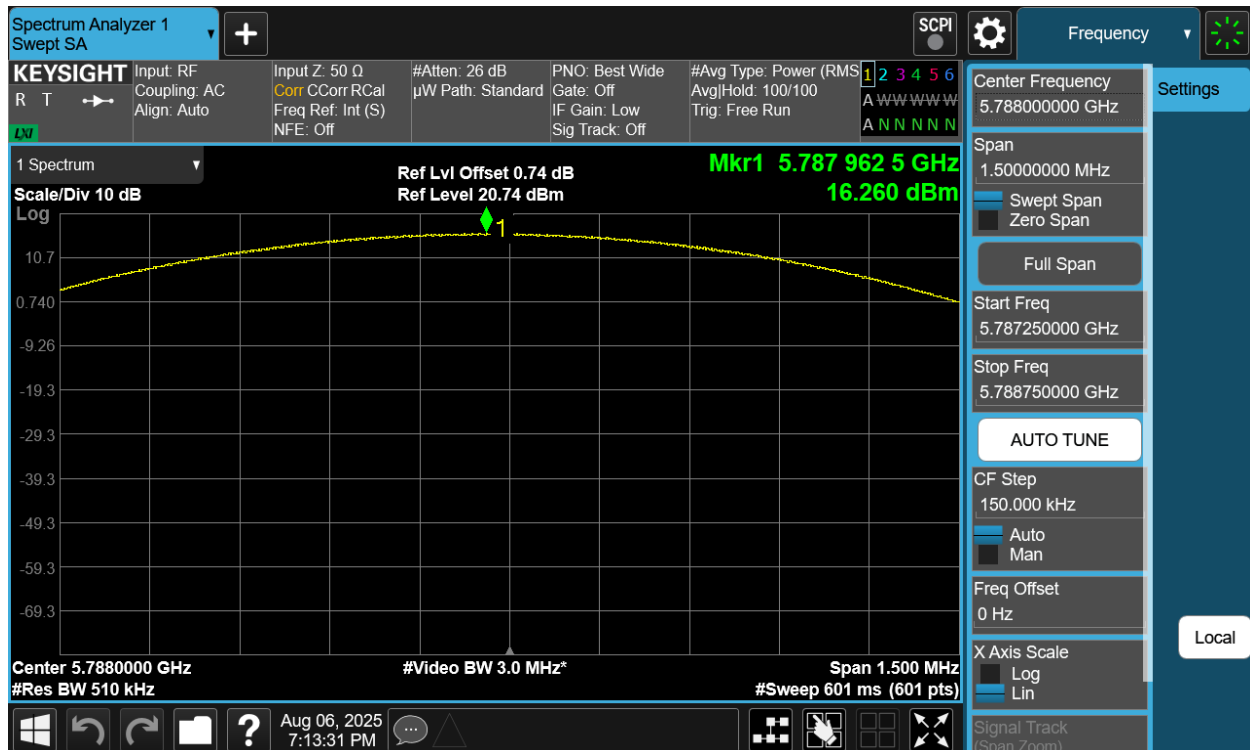
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 248 of 432

V 11.0 06/2025

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Plot 7-395. PSD Tx BF Diversity Antenna 4a (NB UNII LE1M, ePA – 5788MHz)



Plot 7-396. PSD Tx BF Diversity Antenna 2a (NB UNII LE1M, ePA – 5788MHz)

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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 249 of 432

V 11.0 06/2025

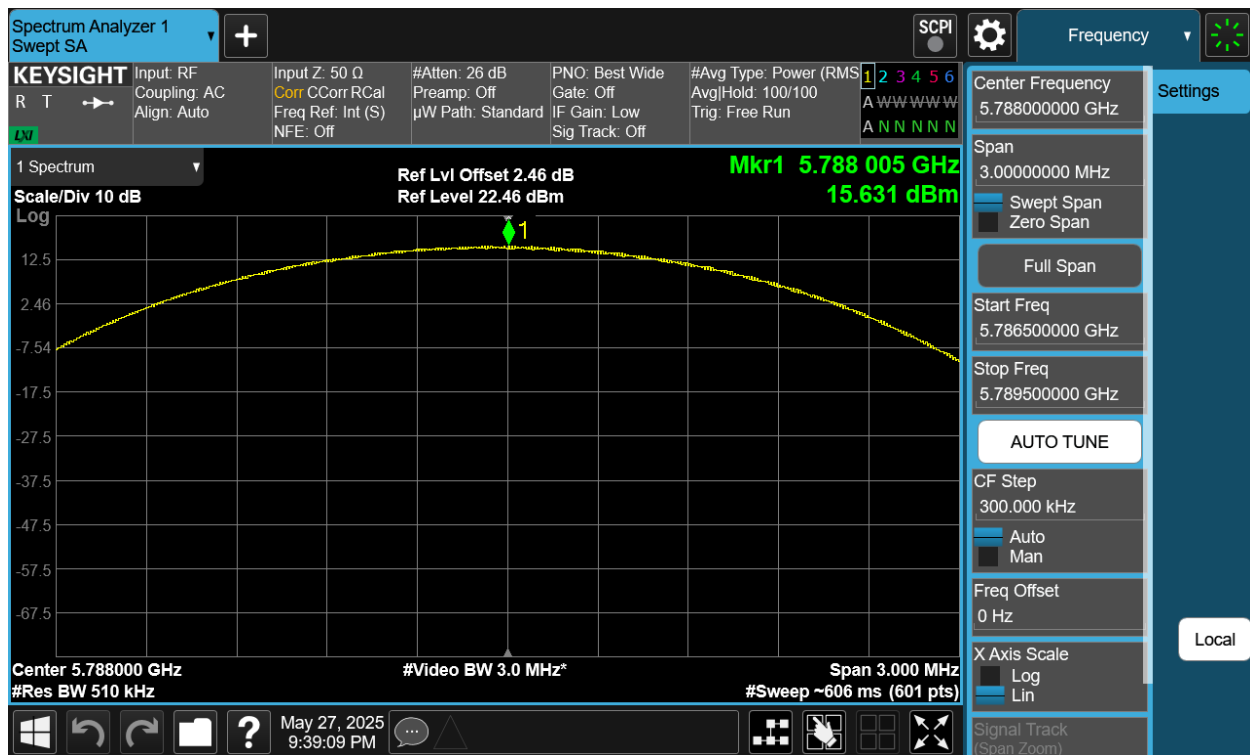
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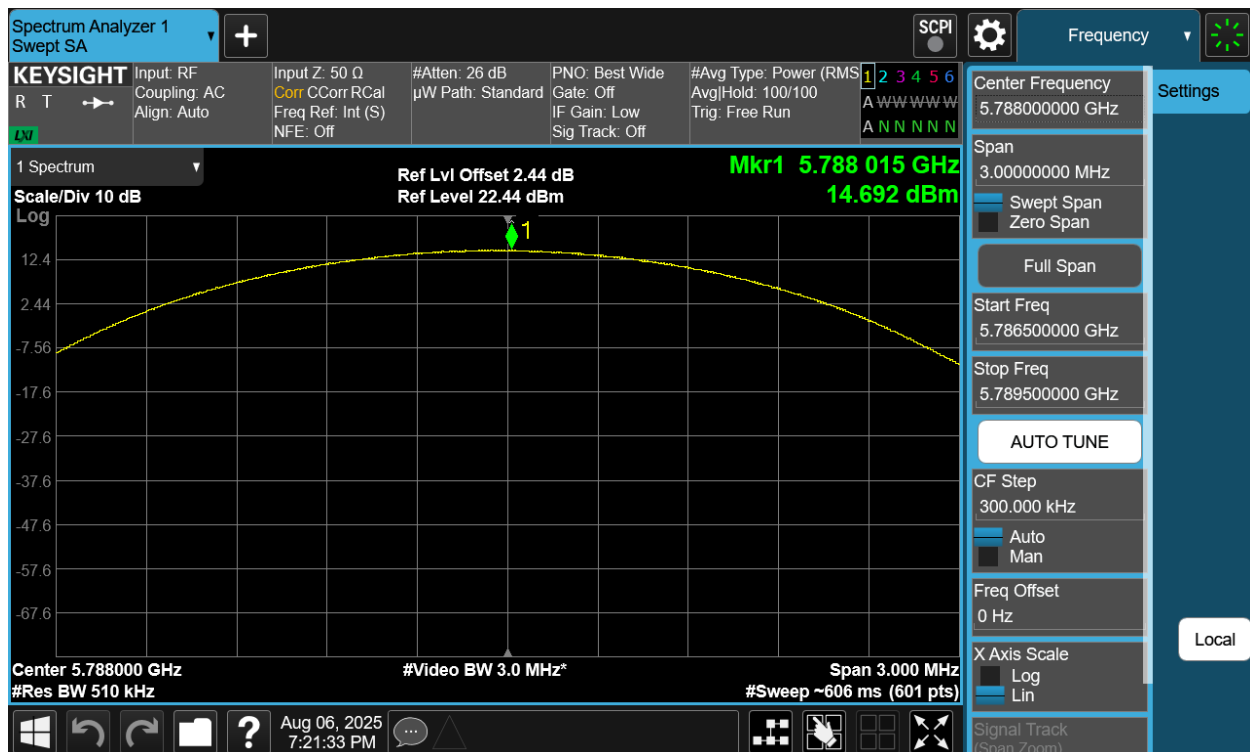
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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 250 of 432

V 11.0 06/2025

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Plot 7-399. PSD TxBF Diversity Antenna 4a (NB UNII LE2M, ePA – 5788MHz)



Plot 7-400. PSD TxBF Diversity Antenna 2a (NB UNII LE2M, ePA – 5788MHz)

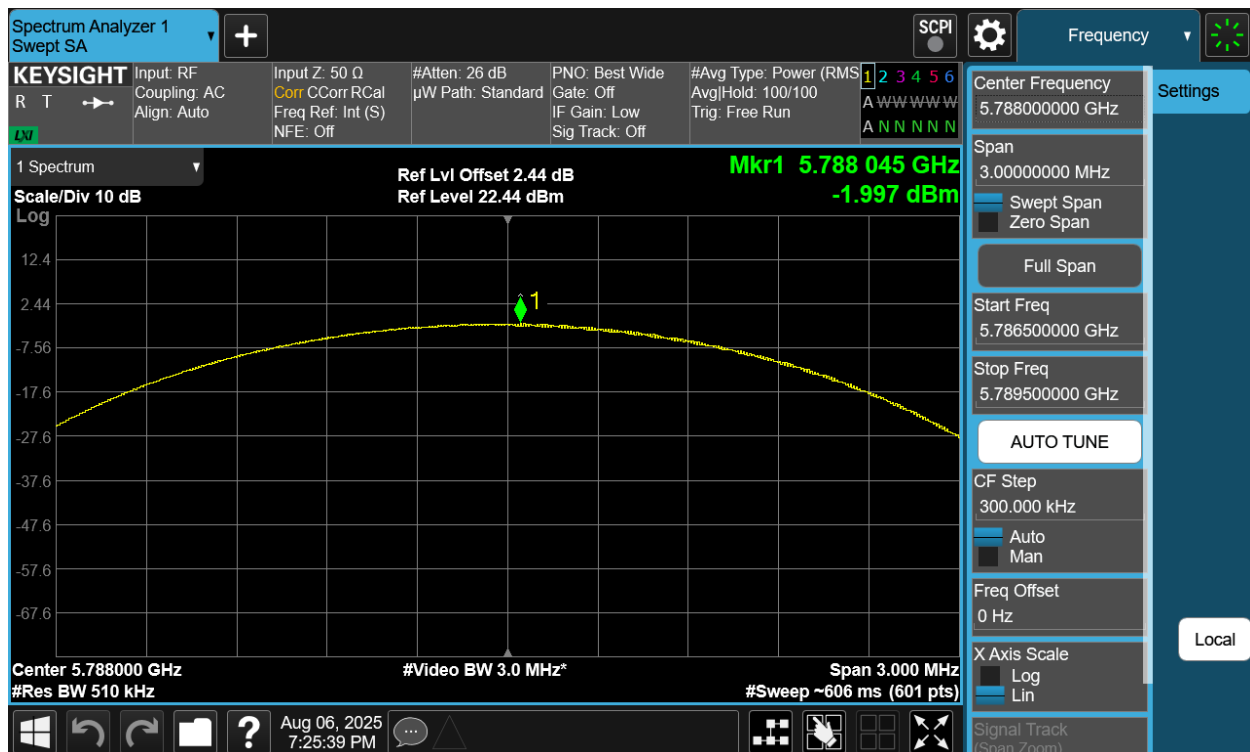
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 251 of 432

V 11.0 06/2025

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Plot 7-401. PSD Tx BF Diversity Antenna 4a (NB UNII LE2M, iPA – 5788MHz)

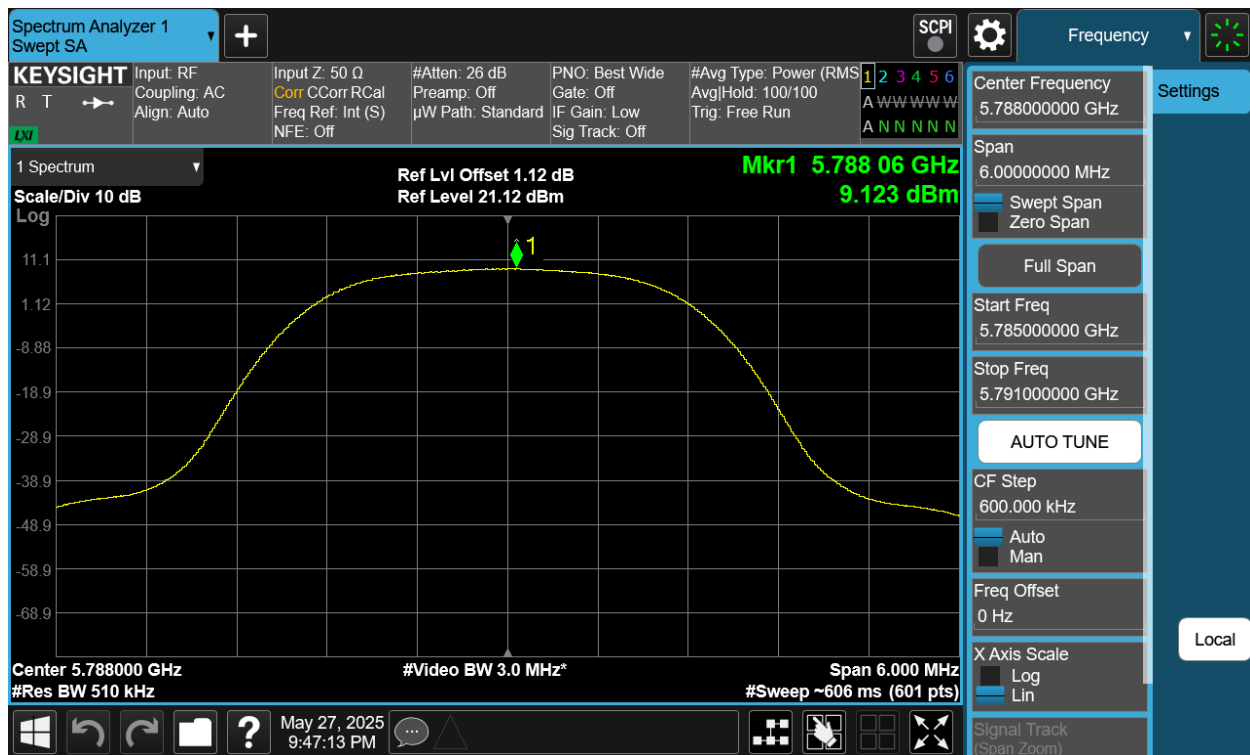


Plot 7-402. PSD Tx BF Diversity Antenna 2a (NB UNII LE2M, iPA – 5788MHz)

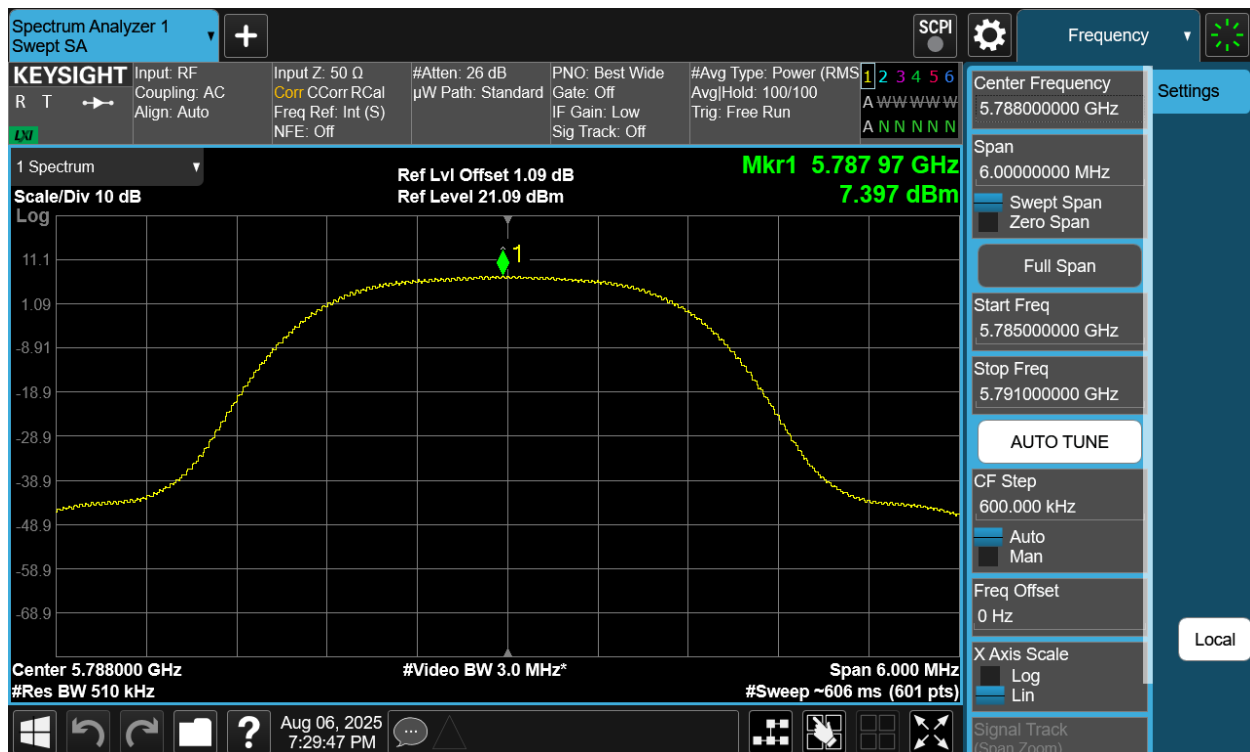
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 252 of 432

V 11.0 06/2025

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Plot 7-403. PSD TxBF Diversity Antenna 4a (NB UNII HDR4, ePA – 5788MHz)

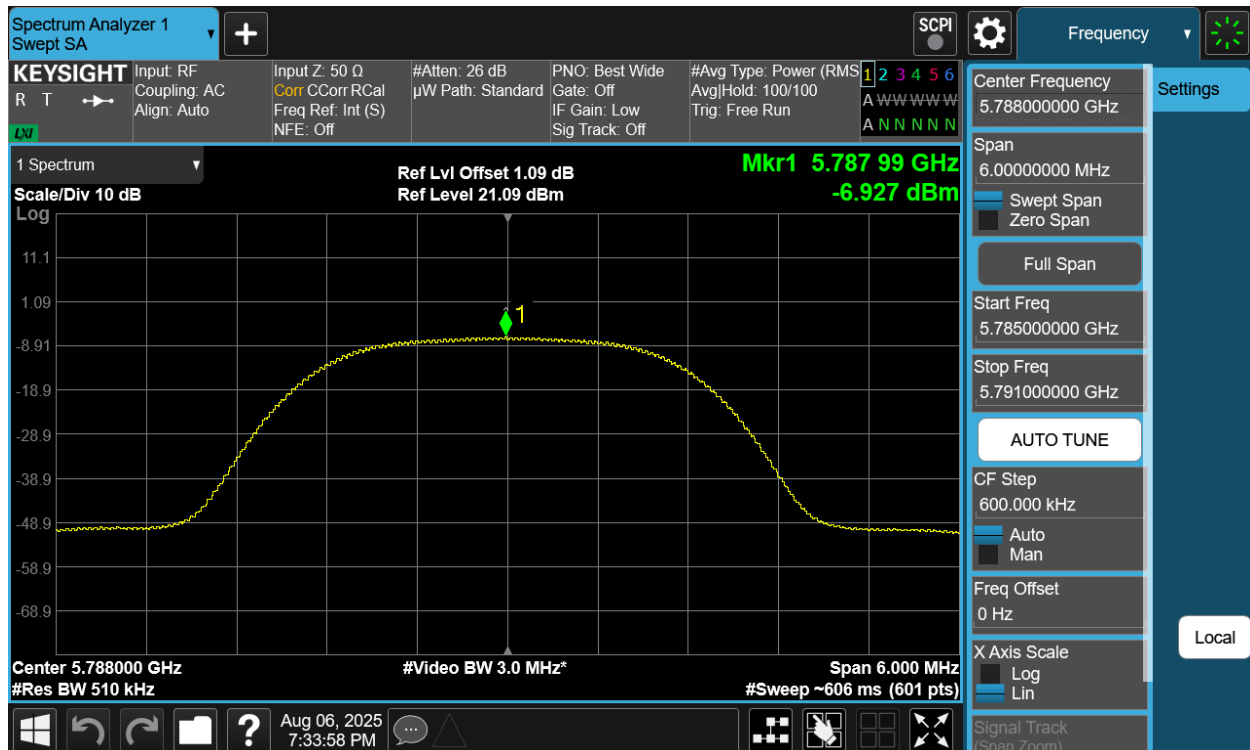
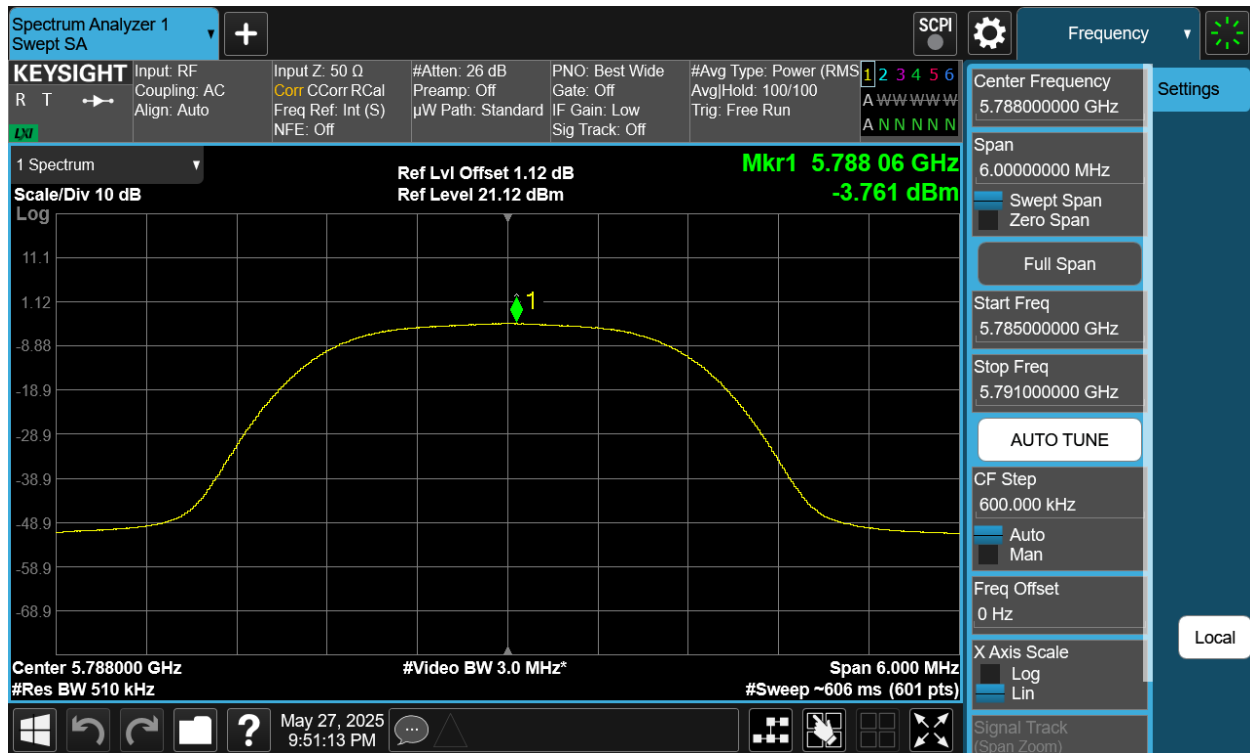


Plot 7-404. PSD TxBF Diversity Antenna 2a (NB UNII HDR4, ePA – 5788MHz)

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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 253 of 432

V 11.0 06/2025

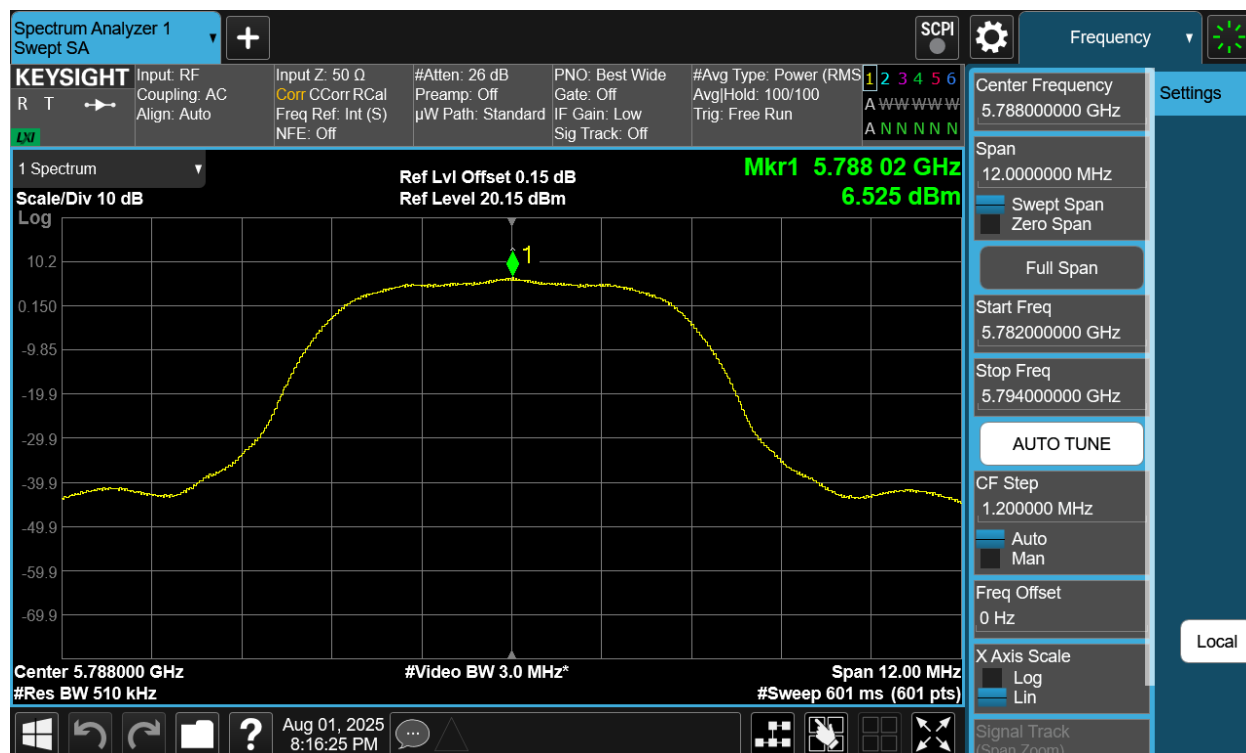
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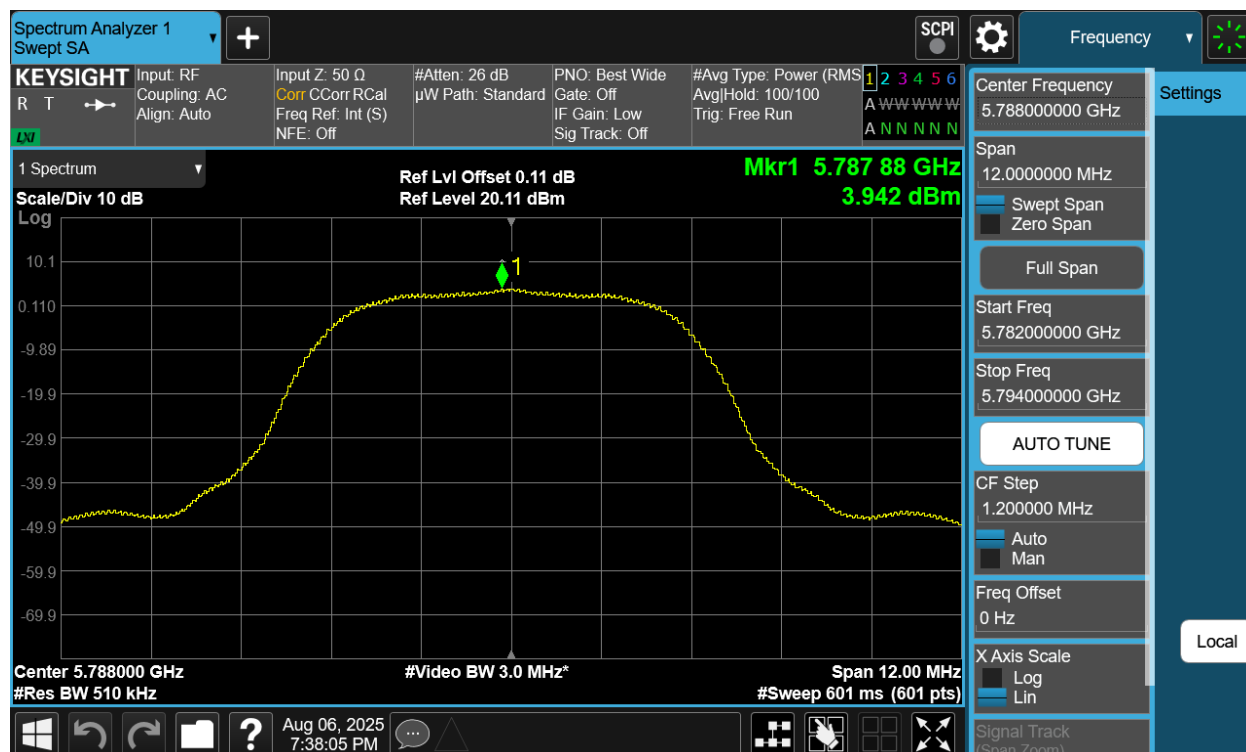
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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 254 of 432

V 11.0 06/2025

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Plot 7-407. PSD TxBF Diversity Antenna 4a (NB UNII HDR8, ePA – 5788MHz)

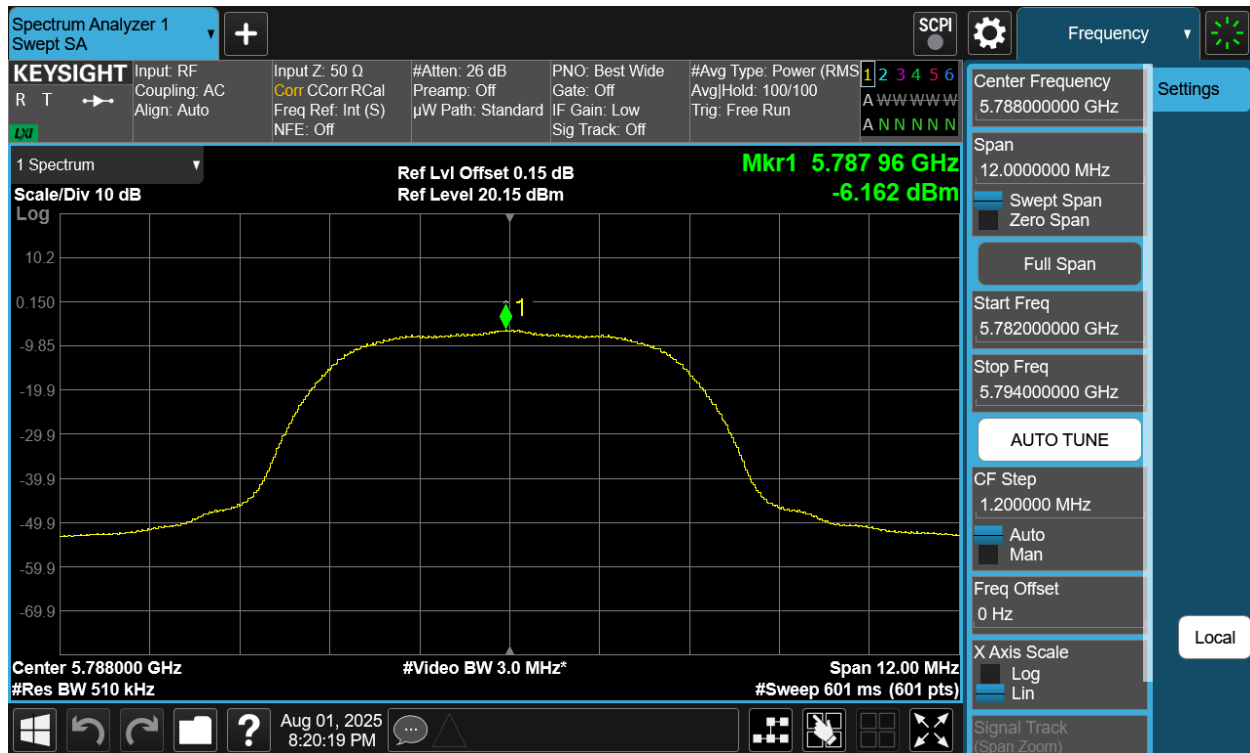


Plot 7-408. PSD TxBF Diversity Antenna 2a (NB UNII HDR8, ePA – 5788MHz)

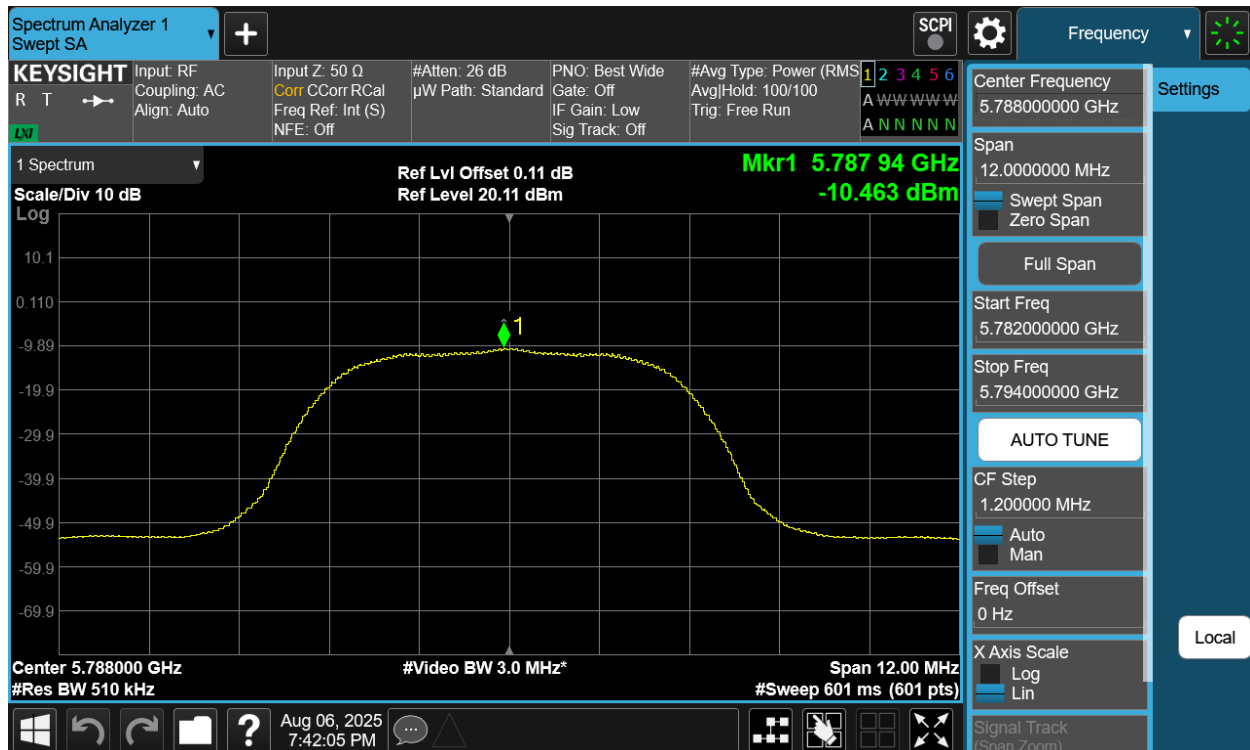
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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 255 of 432

V 11.0 06/2025

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Plot 7-409. PSD TxBF Diversity Antenna 4a (NB UNII HDR8, iPA – 5788MHz)

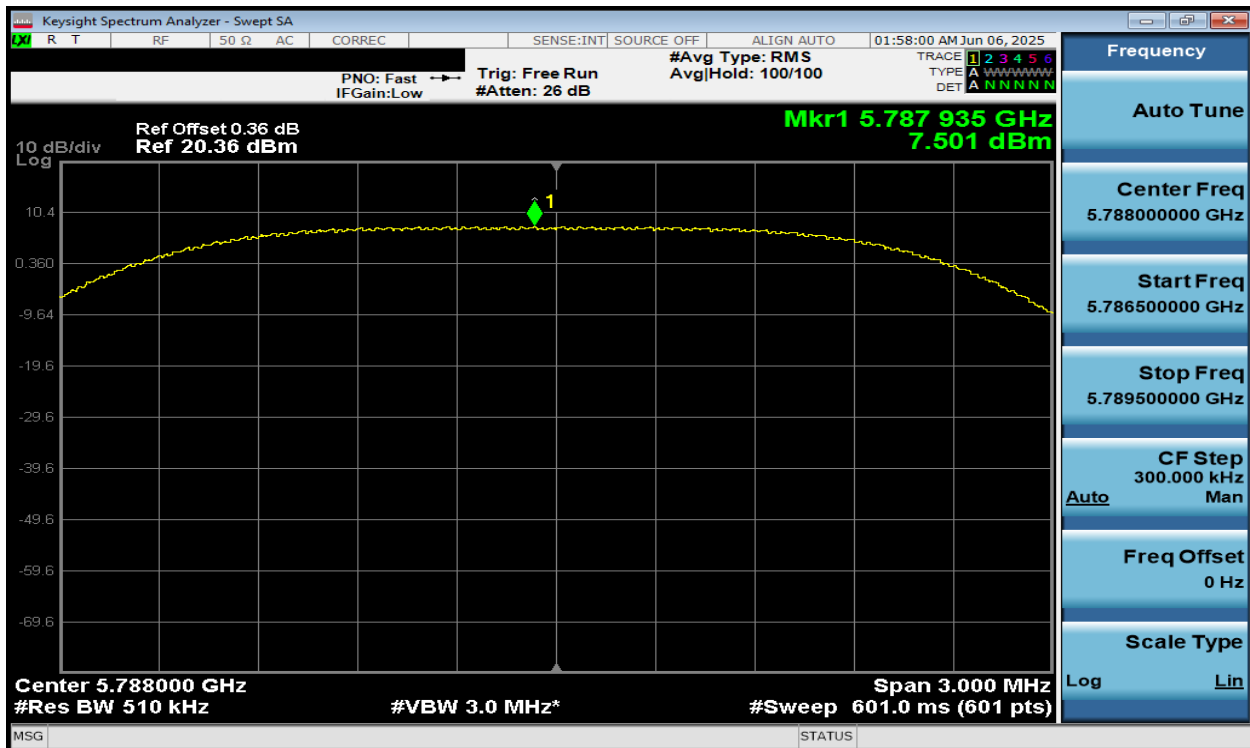


Plot 7-410. PSD TxBF Diversity Antenna 2a (NB UNII HDR8, iPA – 5788MHz)

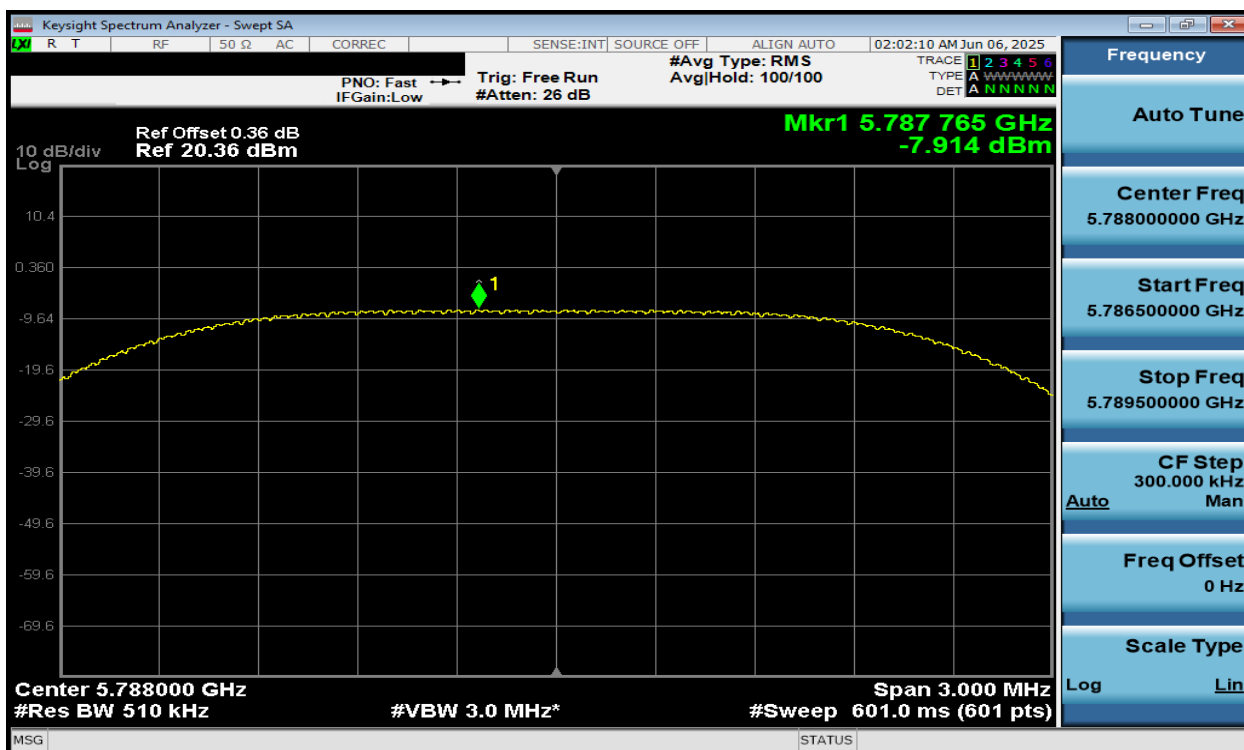
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Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 256 of 432

V 11.0 06/2025

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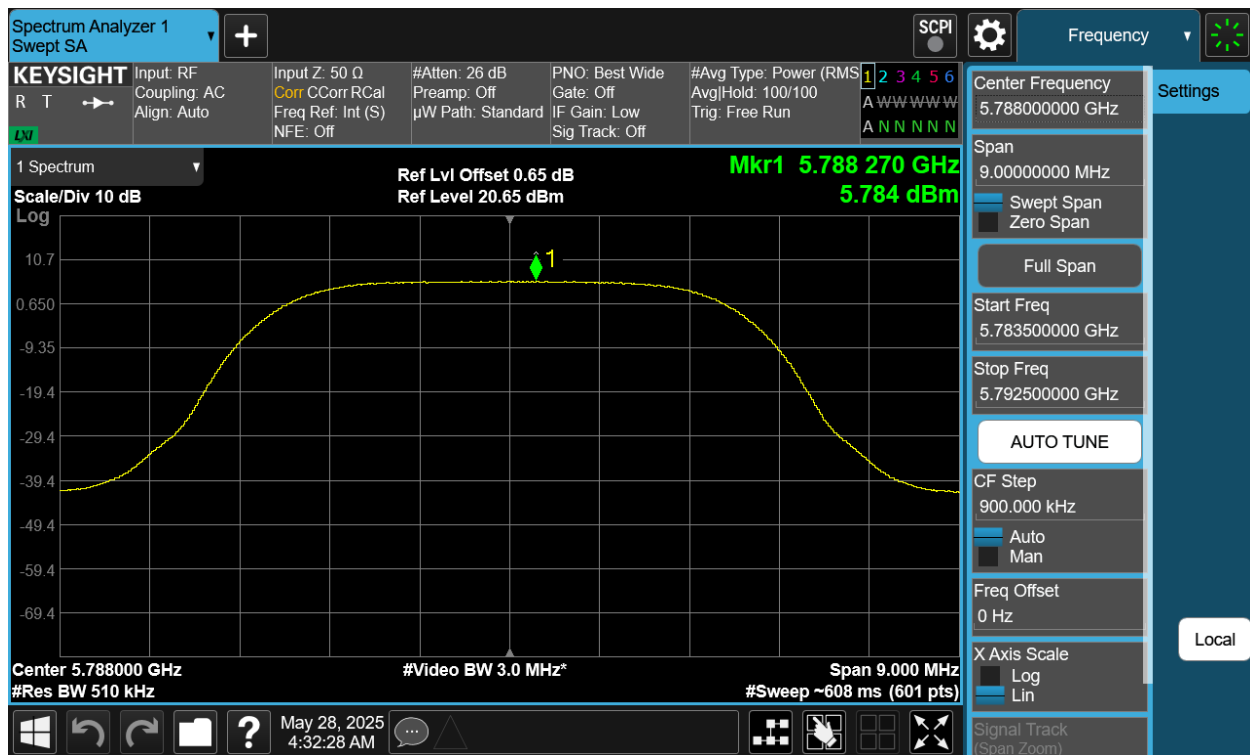
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 257 of 432



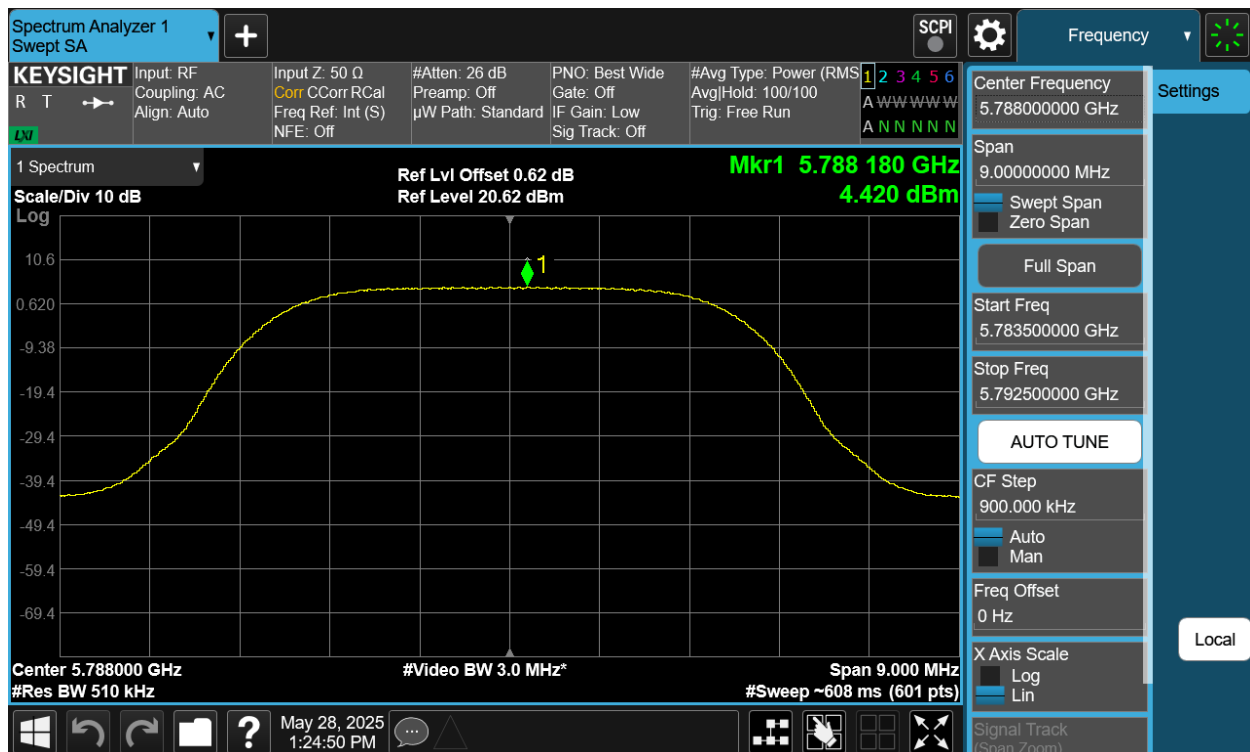
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 258 of 432

V 11.0 06/2025

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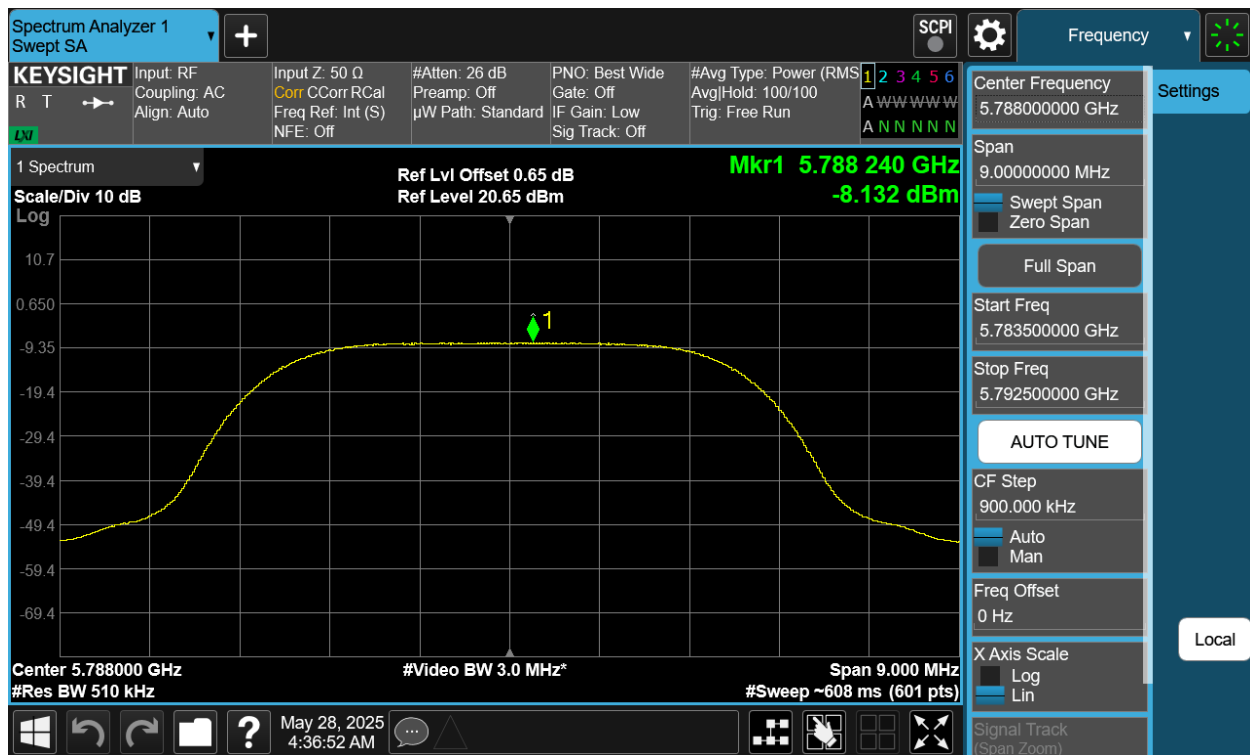


Plot 7-415. PSD Tx BF Diversity Antenna 4a (NB UNII XHDRPM6, ePA – 5788MHz)

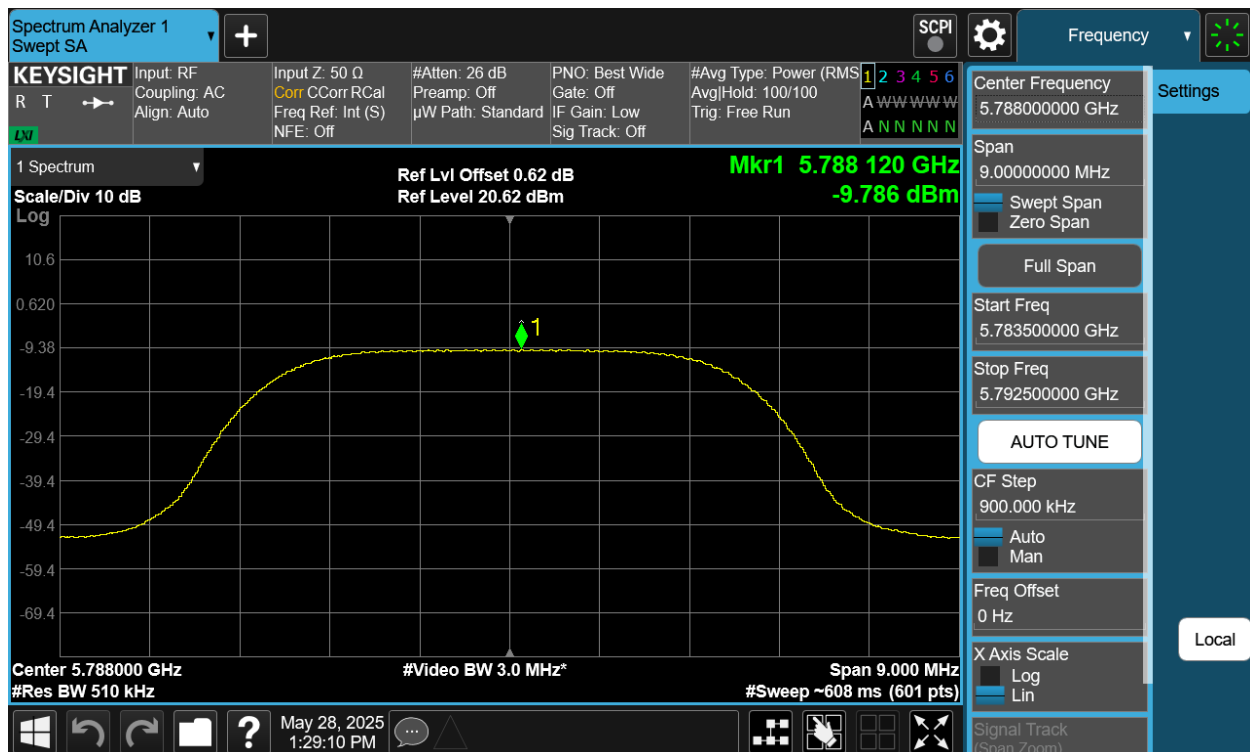


Plot 7-416. PSD Tx BF Diversity Antenna 2a (NB UNII XHDRPM6, ePA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 259 of 432

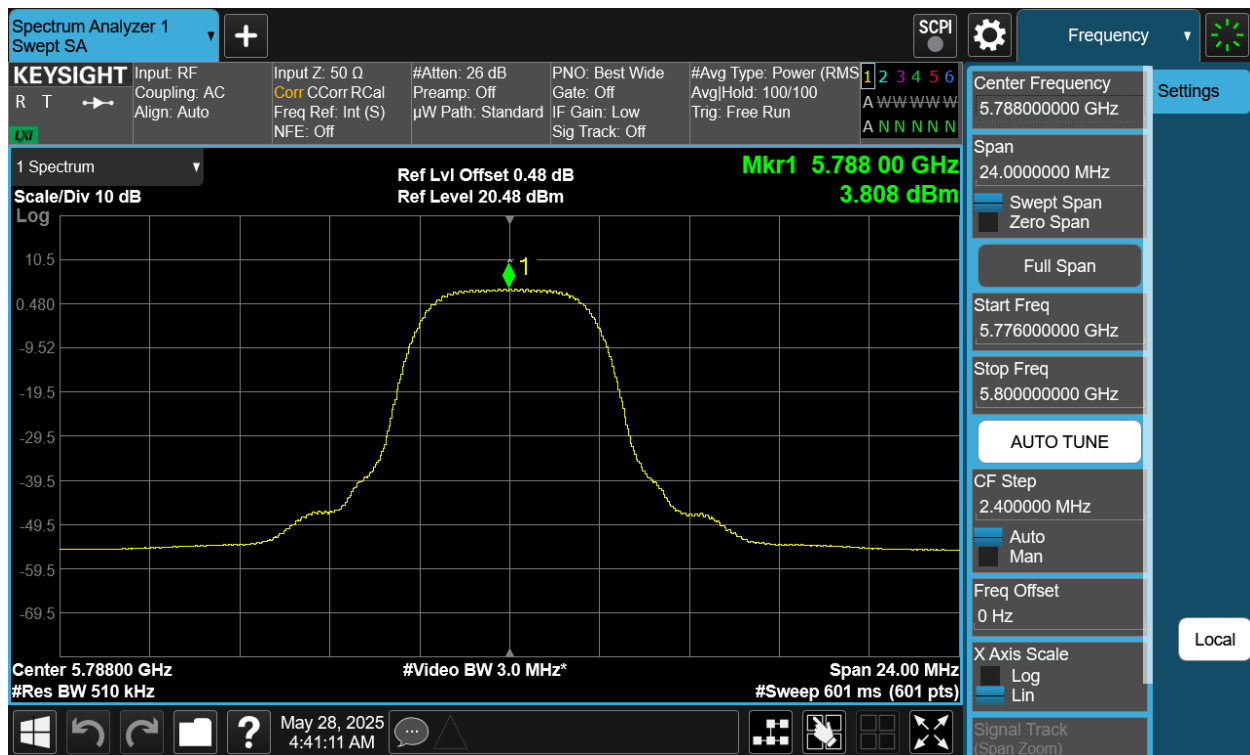


Plot 7-417. PSD TxBF Diversity Antenna 4a (NB UNII XHDRPM6, iPA – 5788MHz)

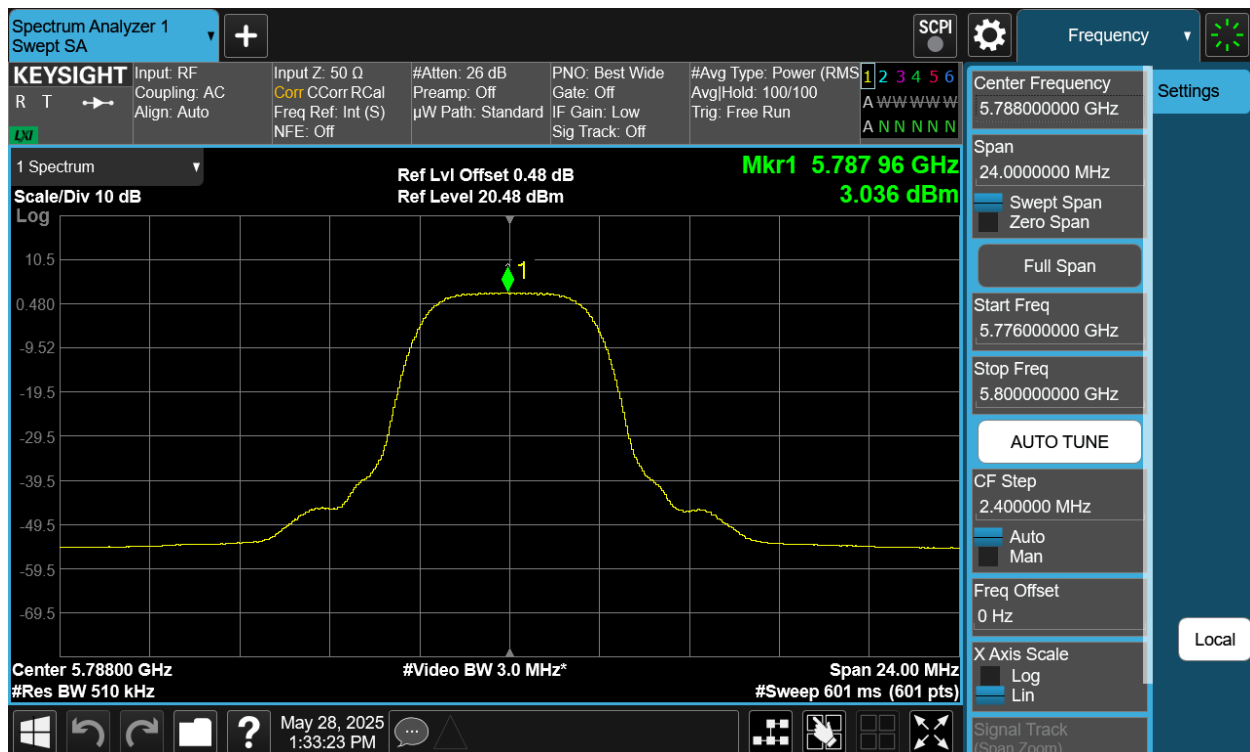


Plot 7-418. PSD TxBF Diversity Antenna 2a (NB UNII XHDRPM6, iPA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 260 of 432



Plot 7-419. PSD TxBF Diversity Antenna 4a (NB UNII HDRPM16, ePA – 5788MHz)

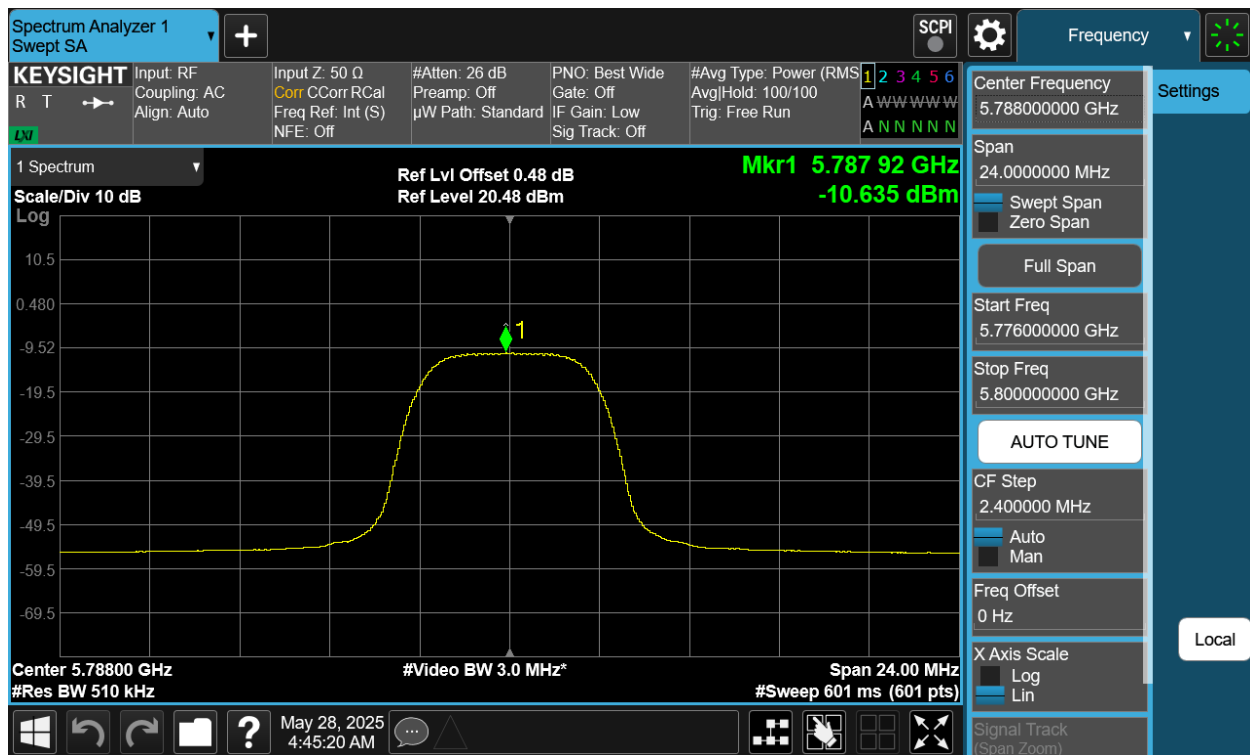


Plot 7-420. PSD TxBF Diversity Antenna 2a (NB UNII HDRPM16, ePA – 5788MHz)

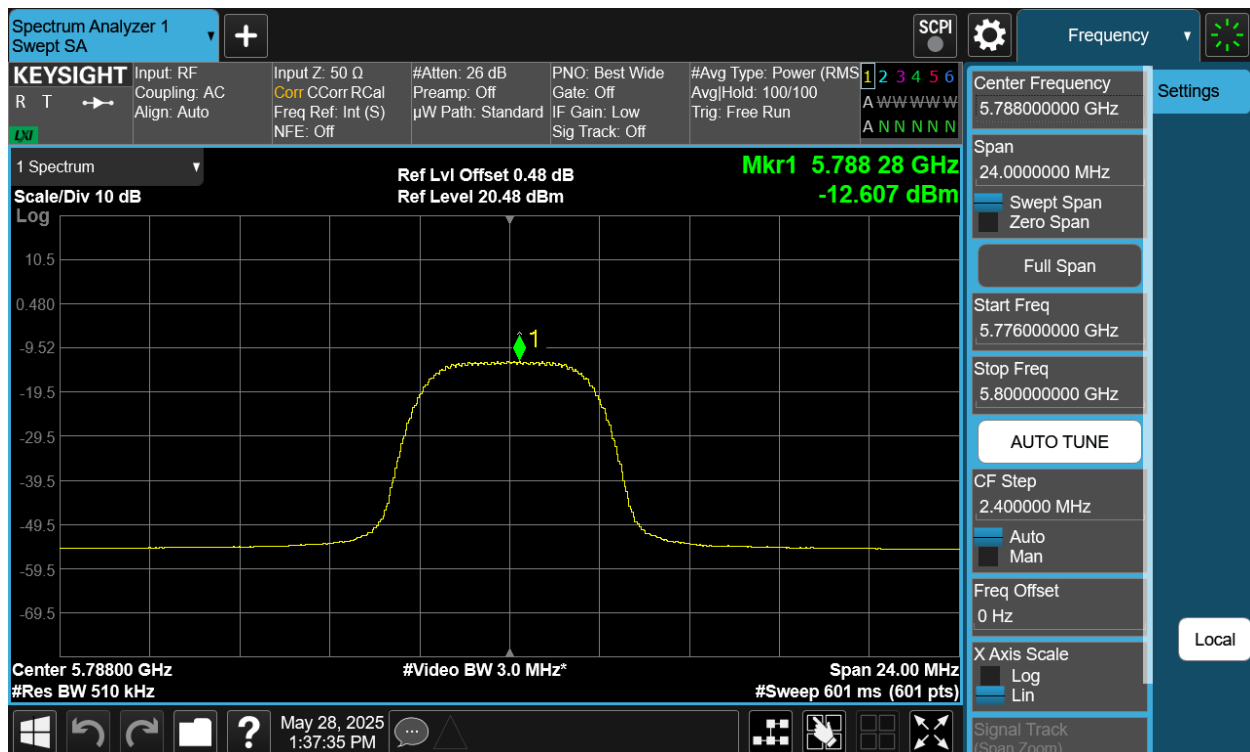
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 261 of 432

V 11.0 06/2025

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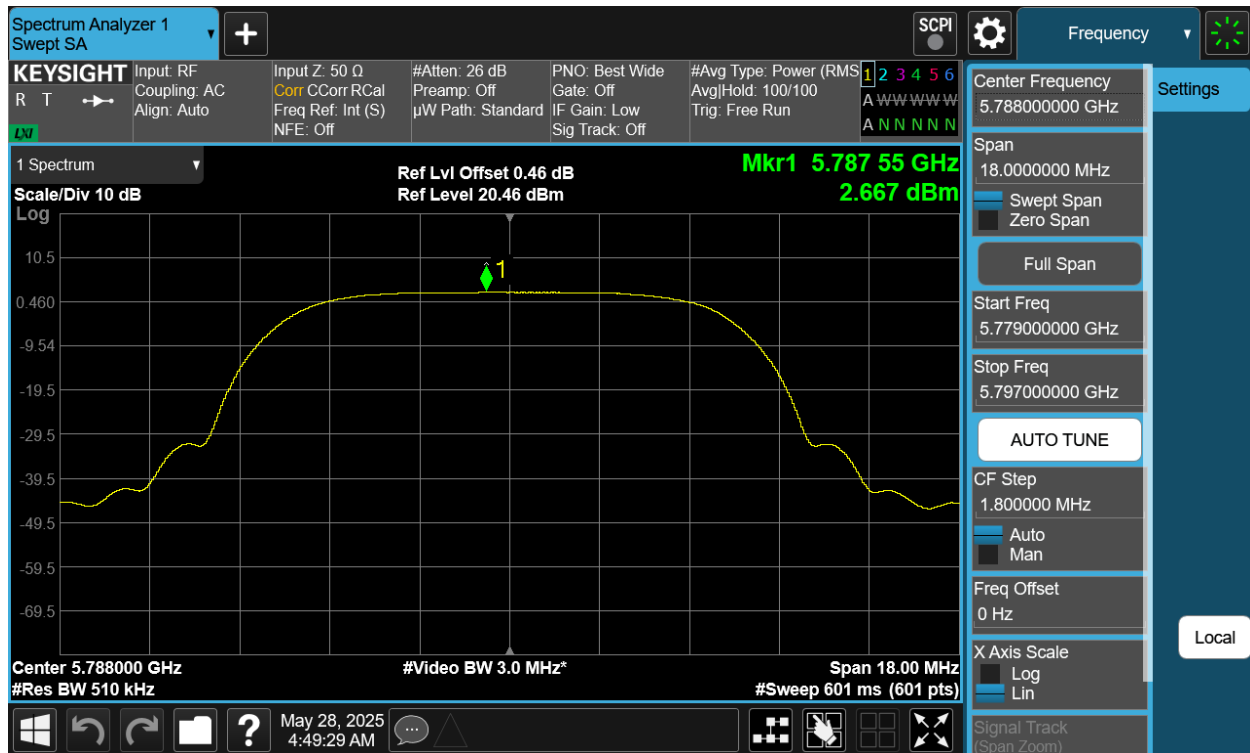


Plot 7-421. PSD TxBF Diversity Antenna 4a (NB UNII HDRPM16, iPA – 5788MHz)

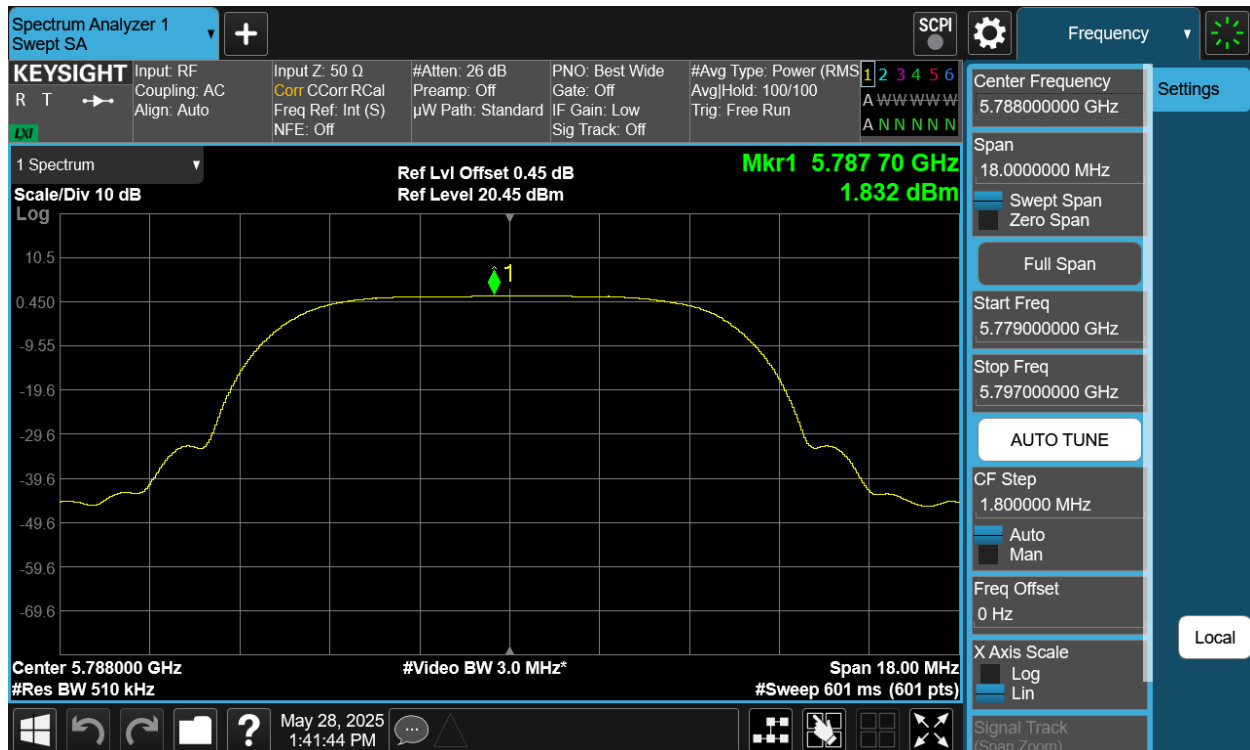


Plot 7-422. PSD TxBF Diversity Antenna 2a (NB UNII HDRPM16, iPA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 262 of 432



Plot 7-423. PSD TxBF Diversity Antenna 4a (NB UNII HDRPL12, ePA – 5788MHz)

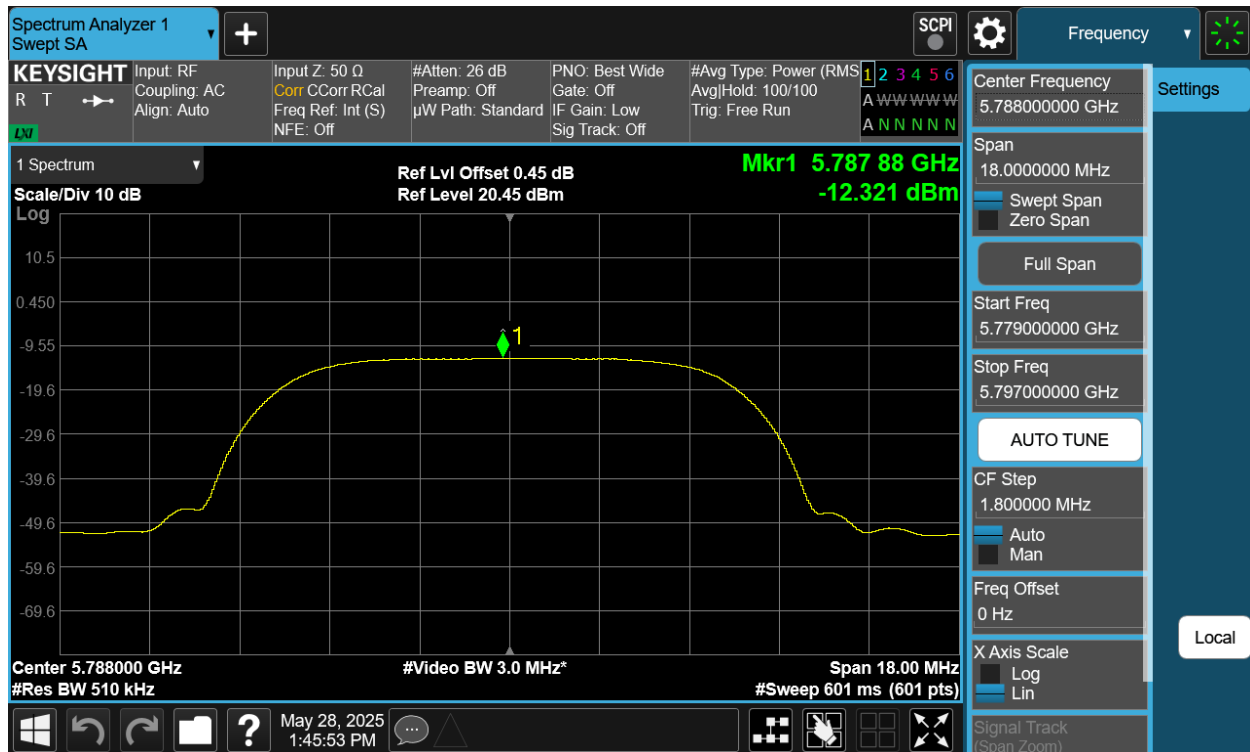
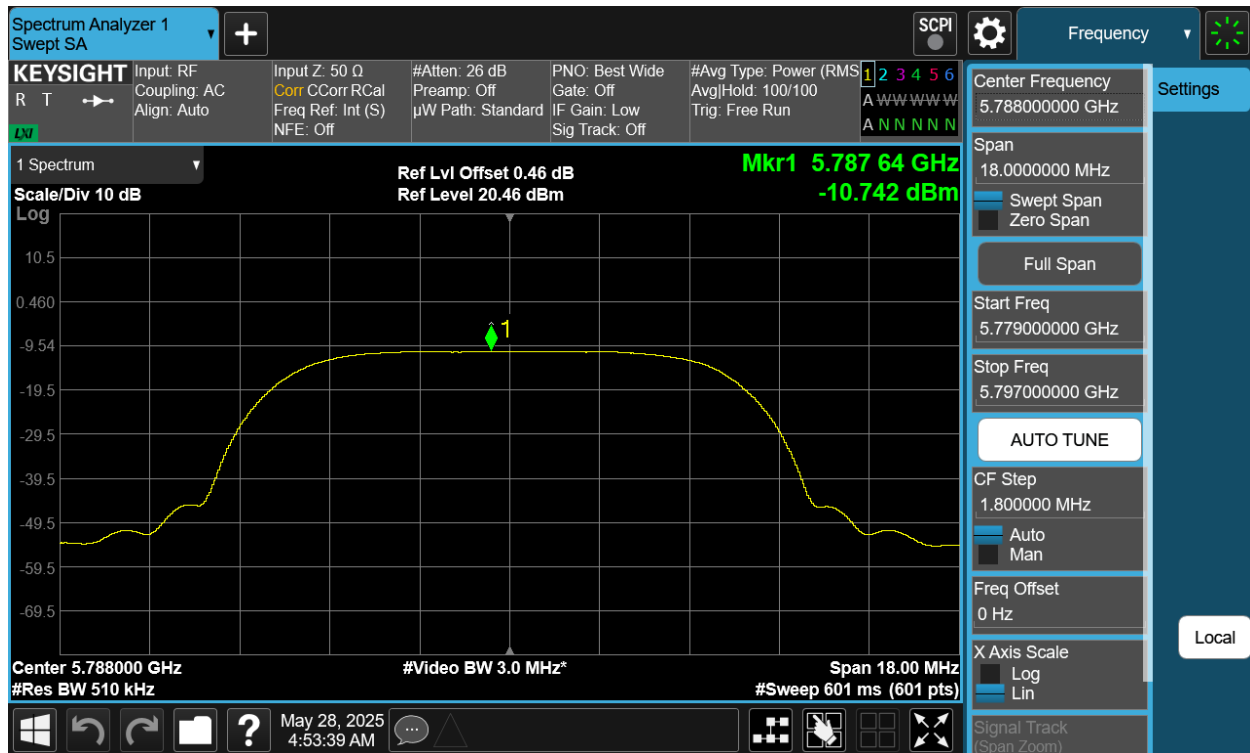


Plot 7-424. PSD TxBF Diversity Antenna 2a (NB UNII HDRPL12, ePA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 263 of 432

V 11.0 06/2025

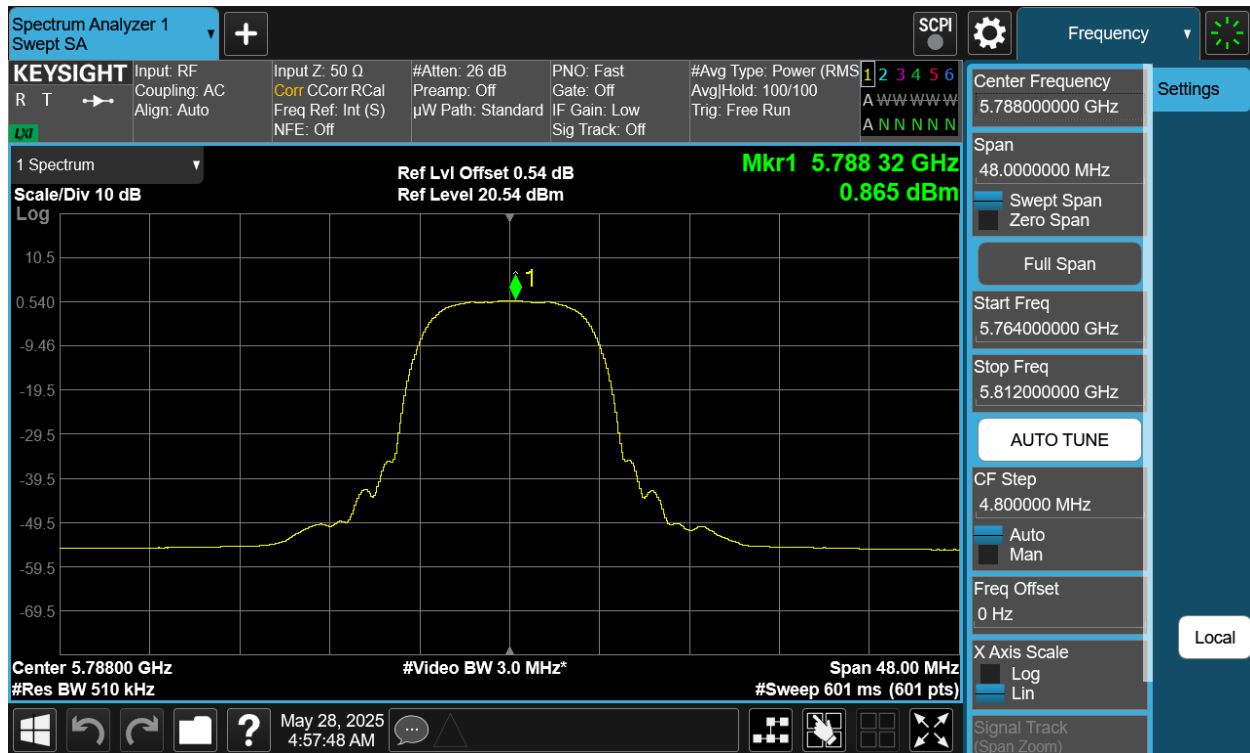
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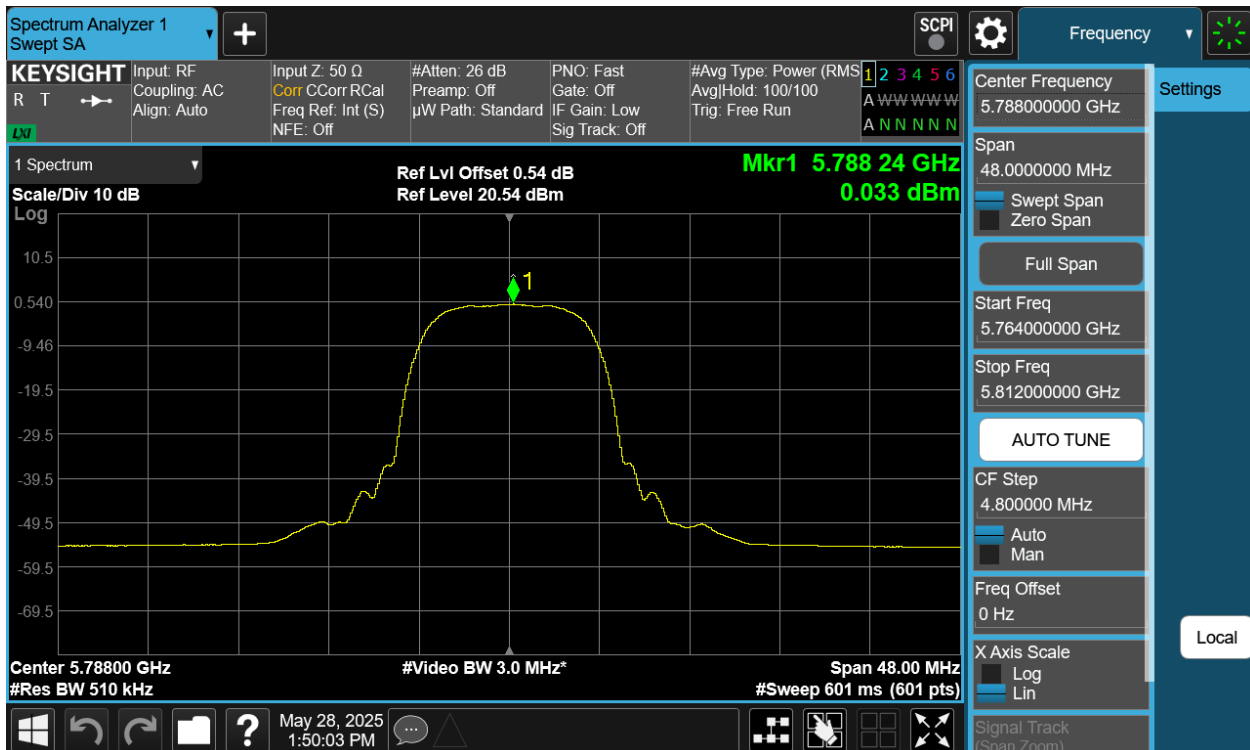
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 264 of 432

V 11.0 06/2025

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Plot 7-427. PSD TxBF Diversity Antenna 4a (NB UNII HDRPL32, ePA – 5788MHz)

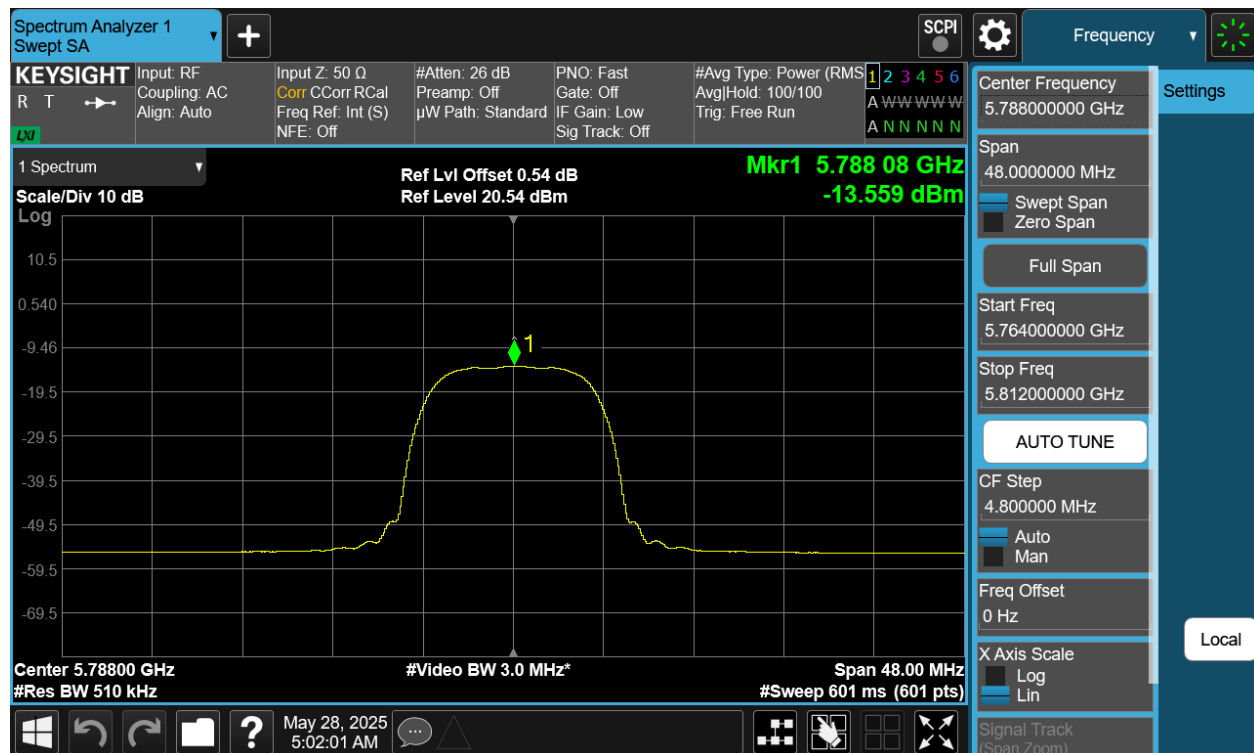


Plot 7-428. PSD TxBF Diversity Antenna 2a (NB UNII HDRPL32, ePA – 5788MHz)

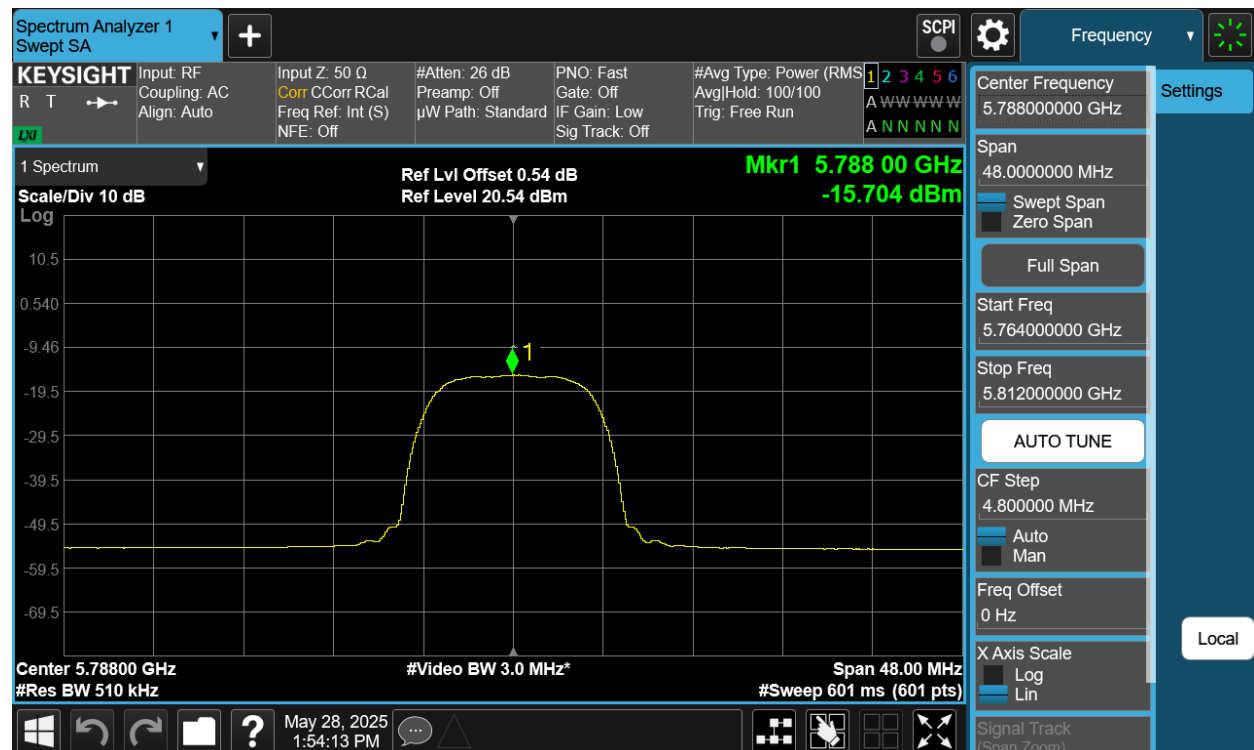
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 265 of 432

V 11.0 06/2025

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Plot 7-429. PSD TxBF Diversity Antenna 4a (NB UNII HDRPL32, iPA – 5788MHz)



Plot 7-430. PSD TxBF Diversity Antenna 2a (NB UNII HDRPL32, iPA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 266 of 432



Plot 7-431. PSD Tx BF Diversity Antenna 4a (NB UNII HDT2, ePA – 5788MHz)

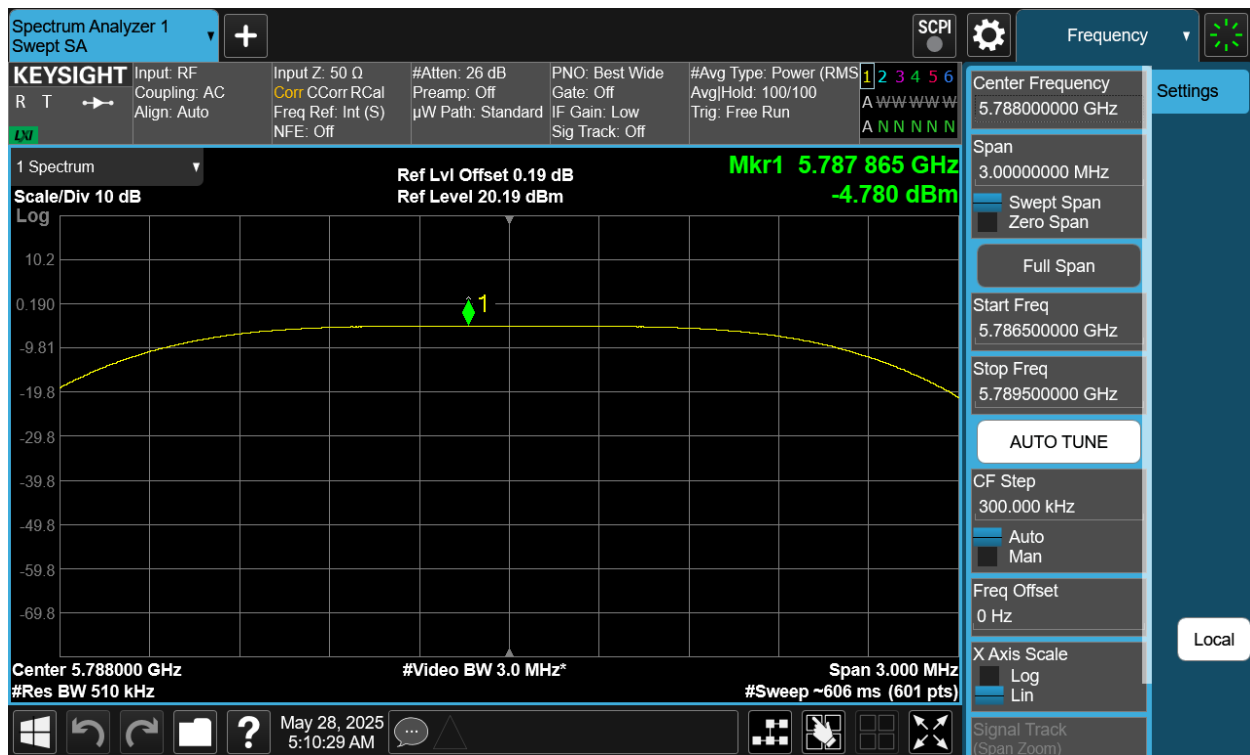


Plot 7-432. PSD Tx BF Diversity Antenna 2a (NB UNII HDT2, ePA – 5788MHz)

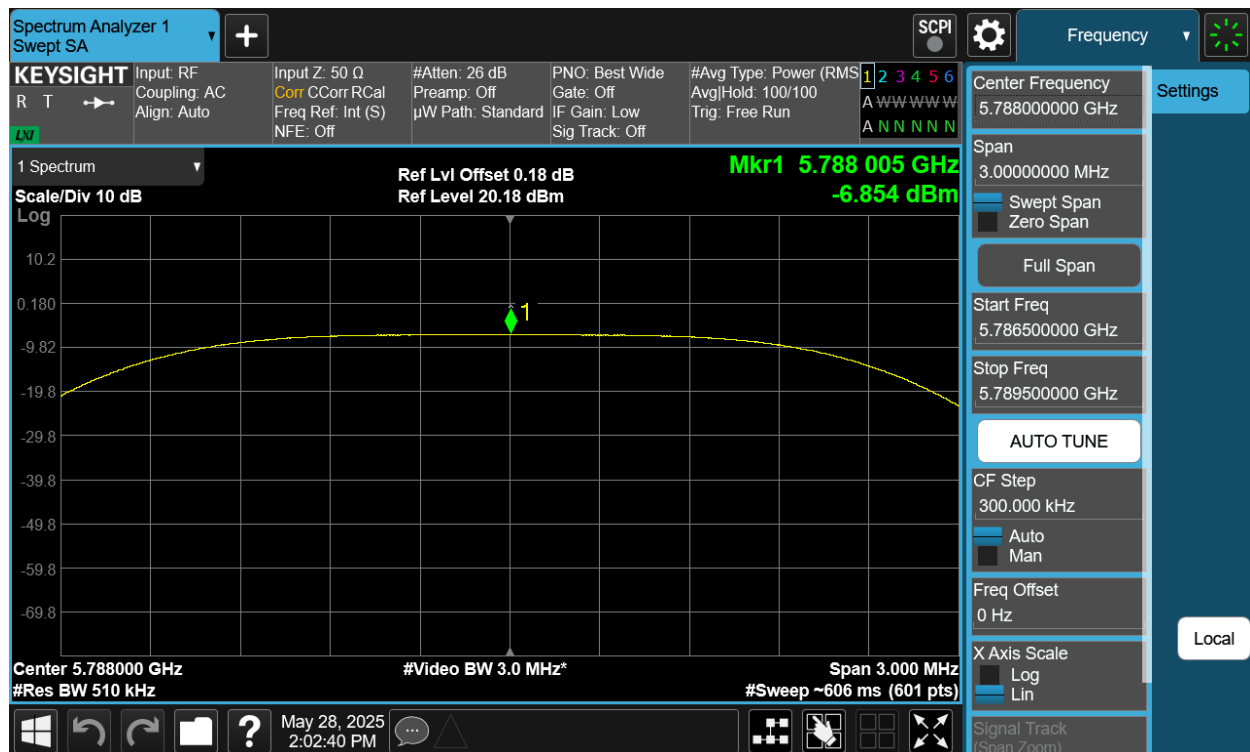
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 267 of 432

V 11.0 06/2025

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Plot 7-433. PSD TxBF Diversity Antenna 4a (NB UNII HDT2, iPA – 5788MHz)

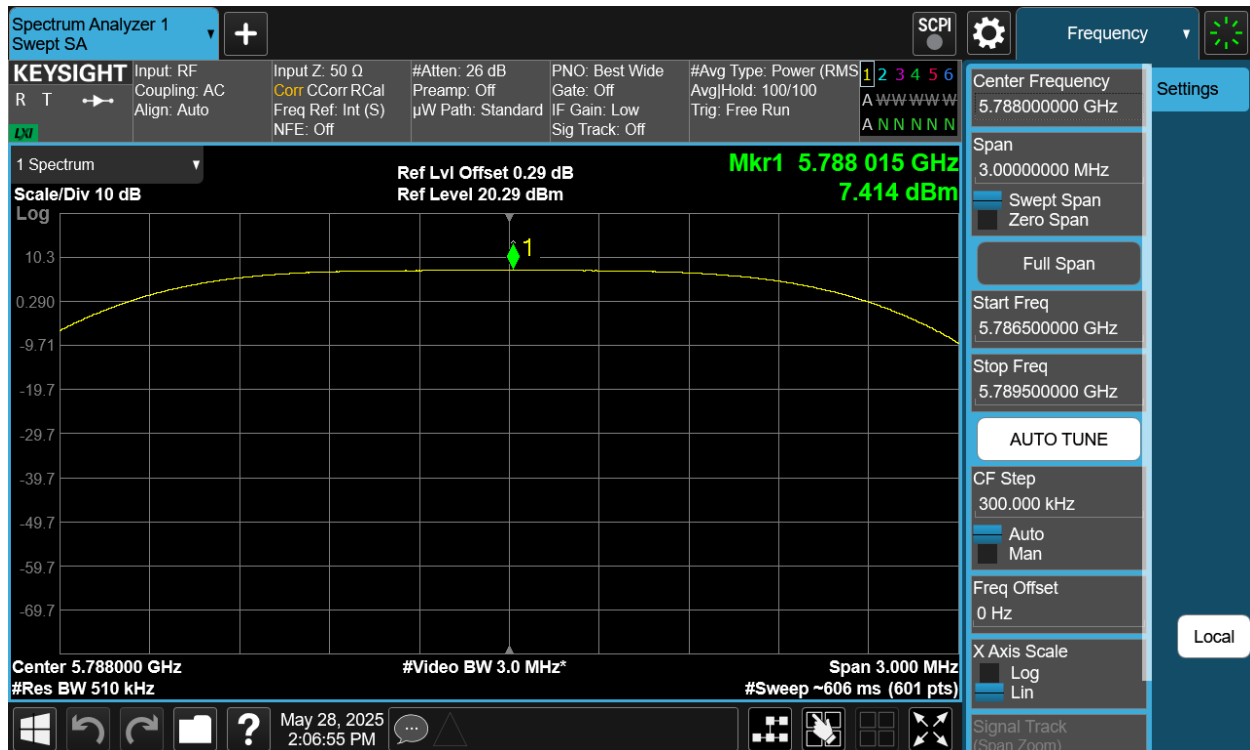


Plot 7-434. PSD TxBF Diversity Antenna 2a (NB UNII HDT2, iPA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 268 of 432



Plot 7-435. PSD Tx BF Diversity Antenna 4a (NB UNII HDT4, ePA – 5788MHz)



Plot 7-436. PSD Tx BF Diversity Antenna 2a (NB UNII HDT4, ePA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 269 of 432



Plot 7-437. PSD TxBF Diversity Antenna 4a (NB UNII HDT4, iPA – 5788MHz)



Plot 7-438. PSD TxBF Diversity Antenna 2a (NB UNII HDT4, iPA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 270 of 432



Plot 7-439. PSD Tx BF Diversity Antenna 4a (NB UNII HDT6, ePA – 5788MHz)



Plot 7-440. PSD Tx BF Diversity Antenna 2a (NB UNII HDT6, ePA – 5788MHz)

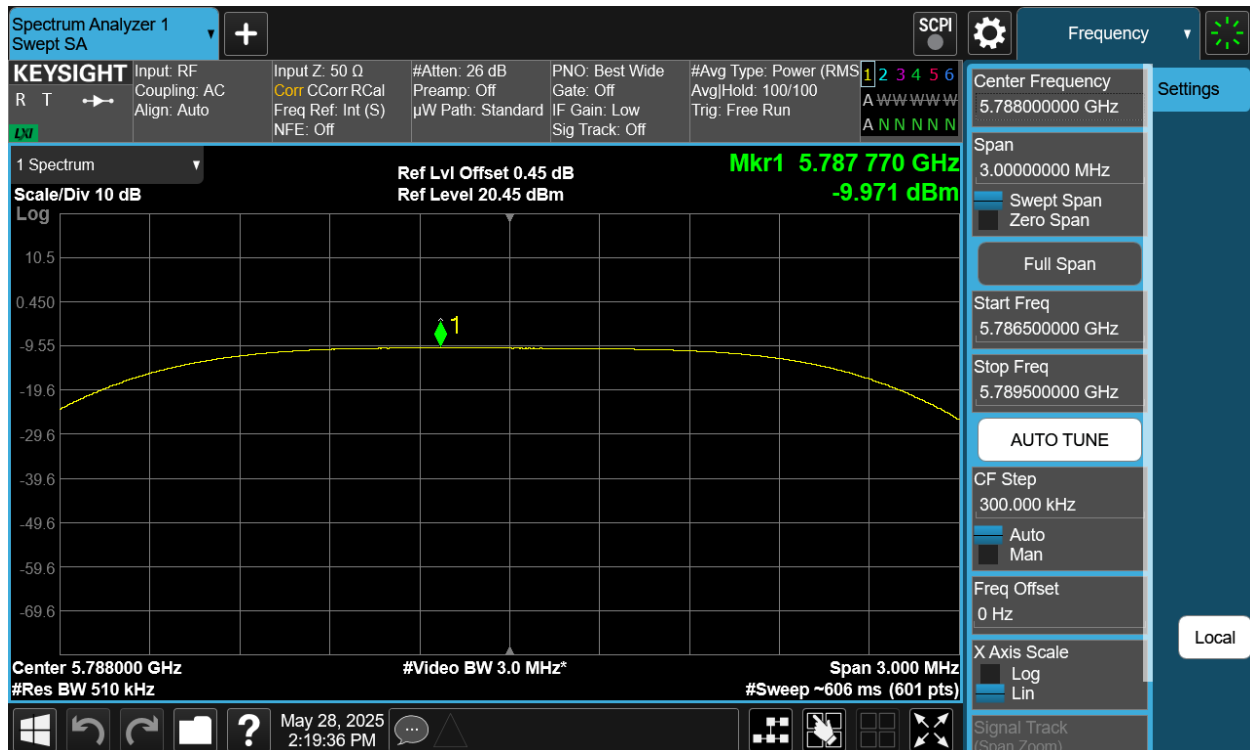
FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 271 of 432

V 11.0 06/2025

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Plot 7-441. PSD Tx BF Diversity Antenna 4a (NB UNII HDT6, iPA – 5788MHz)



Plot 7-442. PSD Tx BF Diversity Antenna 2a (NB UNII HDT6, iPA – 5788MHz)

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 272 of 432

Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E)1), the conducted powers at and were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Per ANSI C63.10-2020 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

Sample TxBF Calculation:

At 5162MHz, the average conducted output power was measured to be 6.92 dBm for Antenna WF5B and 7.04 dBm for Antenna 4a.

$$\text{Antenna WF5B} + \text{Antenna 4a} = \text{TxBF}$$

$$(6.92 \text{ dBm} + 7.04 \text{ dBm}) = (4.920 \text{ mW} + 5.058 \text{ mW}) = 9.979 \text{ mW} = 9.99 \text{ dBm}$$

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 273 of 432

V 11.0 06/2025

7.6 Radiated Spurious Emission – Above 1GHz

§15.407(b) §15.205 §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels and power schemes were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725 – 5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-28 per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-28. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Subclauses 12.7.7, 12.7.6

KDB 789033 D02 v02r01 – Section G

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 274 of 432

V 11.0 06/2025

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

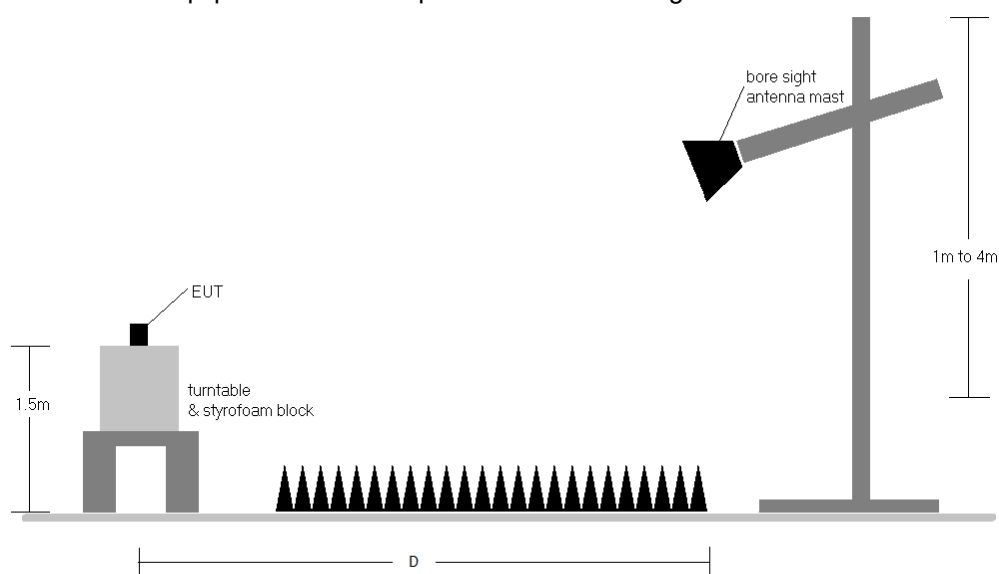


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 275 of 432

V 11.0 06/2025

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 7-28.
2. All spurious emissions lying in restricted bands specified in §15.205 is below the limit shown in Table 7-28. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The “-” shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots starting in Section 7.6.3 to Section 7.6.12 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: BCGA3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-19-R1.BCG	Test Dates: 05/12/2025 - 09/05/2025	EUT Type: Tablet Device	Page 276 of 432

V 11.0 06/2025