



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	9.61	9.51	-	-
6145	10.14	10.43	-	-
6385	9.20	9.19	-	-
6465	8.43	9.01	-	-
6545	8.81	9.13	-	-
6625	10.30	10.99	-	-
6705	10.45	9.85	-	-
6785	10.29	10.80	-	-
6865	10.27	10.75	-	-
6945	10.96	8.83	-	-
7025	10.97	10.08	-	-

Table 319 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	7.86	8.03	-	-
6185	8.01	8.46	-	-
6345	7.84	7.74	-	-
6505	7.20	8.67	-	-
6665	8.89	7.95	-	-
6825	7.23	8.71	-	-
6985	8.07	7.95	-	-

Table 320 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU26 LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU26.0)	17.27	17.90	-	-
6175 (RU26.0)	17.01	16.64	-	-
6415 (RU26.8)	16.15	16.10	-	-
6435 (RU26.0)	17.37	16.48	-	-
6475 (RU26.0)	16.74	17.28	-	-
6515 (RU26.8)	16.26	15.89	-	-
6535 (RU26.0)	16.47	16.85	-	-
6695 (RU26.0)	16.63	16.79	-	-
6855 (RU26.8)	16.02	16.66	-	-
6875 (RU26.3)	16.54	16.32	-	-
6875 (RU26.5)	16.11	16.39	-	-
6895 (RU26.0)	16.24	16.63	-	-
6995 (RU26.0)	16.38	15.98	-	-
7095 (RU26.8)	16.21	16.13	-	-

Table 321 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52 LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU52.37)	18.91	18.98	-	-
6175 (RU52.37)	18.74	17.79	-	-
6415 (RU52.40)	18.57	16.99	-	-
6435 (RU52.37)	17.65	18.17	-	-
6475 (RU52.37)	18.32	16.47	-	-
6515 (RU52.40)	18.12	16.86	-	-
6535 (RU52.37)	18.57	18.33	-	-
6695 (RU52.37)	18.81	18.56	-	-
6855 (RU52.40)	18.19	16.99	-	-
6875 (RU52.38)	17.85	18.28	-	-
6875 (RU52.39)	18.41	18.04	-	-
6895 (RU52.37)	18.83	18.81	-	-
6995 (RU52.37)	18.41	18.61	-	-
7095 (RU52.40)	16.75	16.49	-	-

Table 322 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106 LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	17.91	18.36	-	-
6175 (RU106.53)	18.65	17.97	-	-
6415 (RU106.54)	18.41	18.00	-	-
6435 (RU106.53)	16.96	17.68	-	-
6475 (RU106.53)	18.06	17.71	-	-
6515 (RU106.54)	18.23	18.39	-	-
6535 (RU106.53)	17.01	18.32	-	-
6695 (RU106.53)	17.32	17.61	-	-
6855 (RU106.54)	17.97	17.82	-	-
6875 (RU106.53)	18.14	18.01	-	-
6875 (RU106.54)	17.93	18.01	-	-
6895 (RU106.53)	18.26	18.71	-	-
6995 (RU106.53)	18.43	18.22	-	-
7095 (RU106.54)	18.54	18.40	-	-

Table 323 - Unwanted Emissions Within the Band Results

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU SP	12.80	6382.700
802.11ax HE40 SU SP	5.31	6571.939
802.11ax HE80 SU SP	4.50	6239.000
802.11ax HE160 SU SP	3.23	5933.000

Table 324 - Unwanted Emissions Within the RLAN Band Summary Results

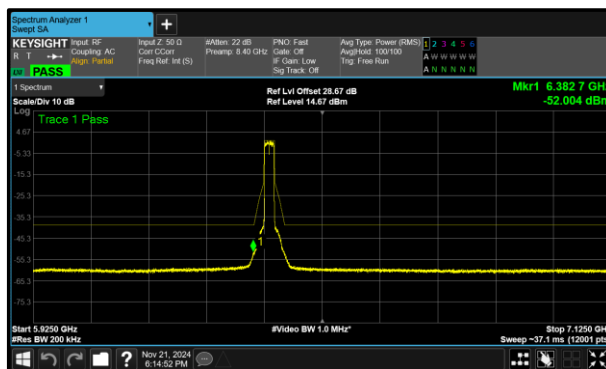


**Figure 329 - B (Core 1) 802.11ax HE20 SU SP
6415 MHz (CH93)**

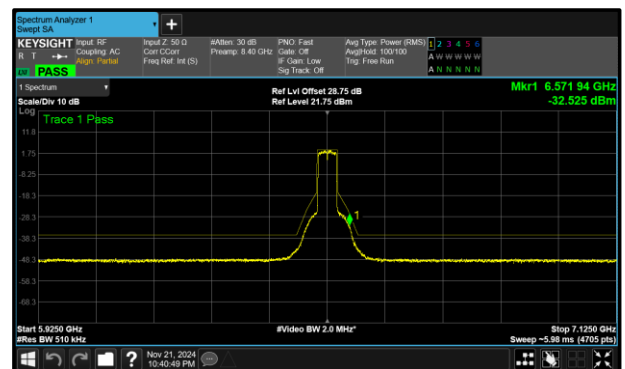


**Figure 330 - B (Core 1) 802.11ax HE40 SU SP
6525 MHz (CH115)**

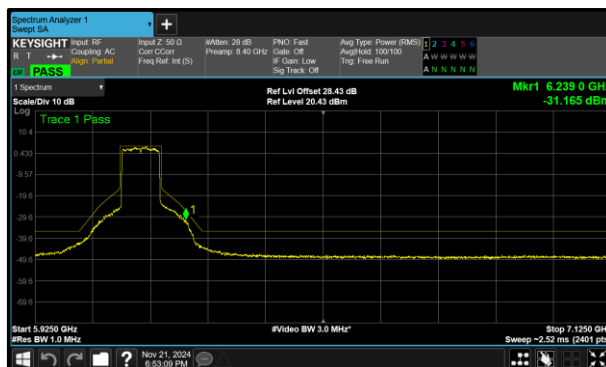


**Figure 331 - A (Core 0) 802.11ax HE80 SU SP
6145 MHz (CH39)**

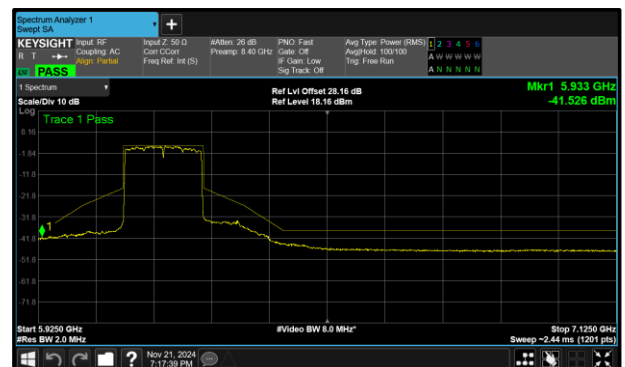


**Figure 332 - B (Core 1) 802.11ax HE160 SU SP
6185 MHz (CH47)**

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 RU106 SP	17.07	6886.800
802.11ax HE20 RU26 SP	13.89	6425.700
802.11ax HE20 RU52 SP	15.84	6425.800

Table 325 - Unwanted Emissions Within the RLAN Band Summary Results

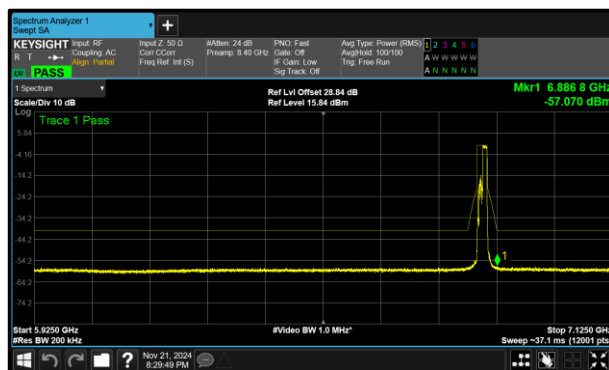


Figure 333 - B (Core 1) 802.11ax HE20 RU106 SP
6855 MHz (CH181)

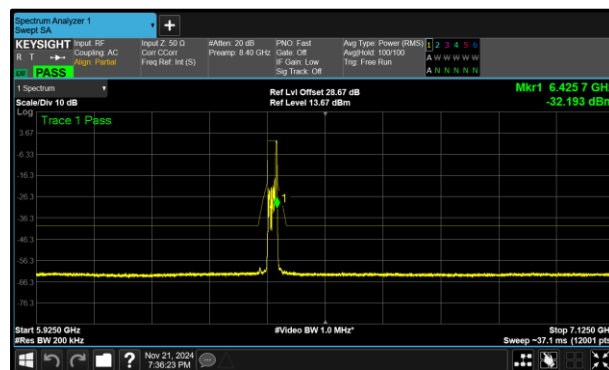


Figure 334 - B (Core 1) 802.11ax HE20 RU26 SP
6415 MHz (CH93)

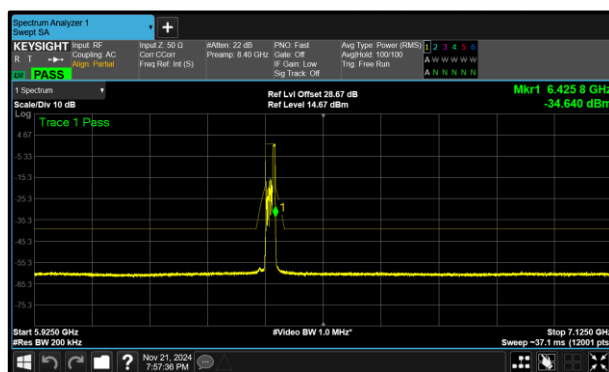


Figure 335 - B (Core 1) 802.11ax HE20 RU52 SP
6415 MHz (CH93)



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	17.73	17.95	-	-
6175	13.27	13.18	-	-
6415	13.43	12.80	-	-
6435	13.84	13.61	-	-
6475	13.00	12.99	-	-
6515	14.07	13.92	-	-
6535	15.67	14.56	-	-
6695	16.69	15.06	-	-
6855	15.96	14.74	-	-

Table 326 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5965	11.57	11.76	-	-
6165	6.08	6.29	-	-
6405	7.97	7.55	-	-
6445	7.33	6.37	-	-
6485	6.92	7.09	-	-
6525	6.65	5.31	-	-
6565	5.69	6.03	-	-
6685	5.86	5.41	-	-
6845	6.69	5.91	-	-

Table 327 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	10.16	10.49	-	-
6145	4.50	5.16	-	-
6385	6.52	8.37	-	-
6465	7.03	8.56	-	-
6545	6.21	7.73	-	-
6625	7.30	7.43	-	-
6705	5.52	6.80	-	-
6785	5.23	4.73	-	-

Table 328 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	6.92	6.90	-	-
6185	3.84	3.23	-	-
6345	3.78	3.71	-	-
6505	4.83	5.29	-	-
6665	5.93	6.63	-	-

Table 329 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU26 SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU26.0)	20.68	17.13	-	-
6175 (RU26.0)	19.71	17.32	-	-
6415 (RU26.8)	18.41	13.89	-	-
6435 (RU26.0)	16.83	17.49	-	-
6475 (RU26.0)	21.03	17.33	-	-
6515 (RU26.8)	18.81	17.50	-	-
6535 (RU26.0)	18.44	19.57	-	-
6695 (RU26.0)	19.67	17.64	-	-
6855 (RU26.8)	18.33	15.04	-	-

Table 330 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52 SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU52.37)	19.02	17.79	-	-
6175 (RU52.37)	18.40	18.34	-	-
6415 (RU52.40)	17.31	15.84	-	-
6435 (RU52.37)	18.56	16.93	-	-
6475 (RU52.37)	19.09	17.97	-	-
6515 (RU52.40)	17.36	16.67	-	-
6535 (RU52.37)	18.40	19.69	-	-
6695 (RU52.37)	18.24	18.37	-	-
6855 (RU52.40)	17.84	16.01	-	-

Table 331 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106 SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	19.07	17.09	-	-
6175 (RU106.53)	18.43	17.97	-	-
6415 (RU106.54)	19.02	17.56	-	-
6435 (RU106.53)	19.06	19.00	-	-
6475 (RU106.53)	18.64	18.32	-	-
6515 (RU106.54)	19.23	19.00	-	-
6535 (RU106.53)	17.38	17.54	-	-
6695 (RU106.53)	17.38	18.06	-	-
6855 (RU106.54)	19.04	17.07	-	-

Table 332 - Unwanted Emissions Within the Band Results

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU VLP	15.65	5956.900
802.11ax HE40 SU VLP	9.30	6485.969
802.11ax HE80 SU VLP	8.14	5962.500
802.11ax HE160 SU VLP	6.66	6348.000

Table 333 - Unwanted Emissions Within the RLAN Band Summary Results

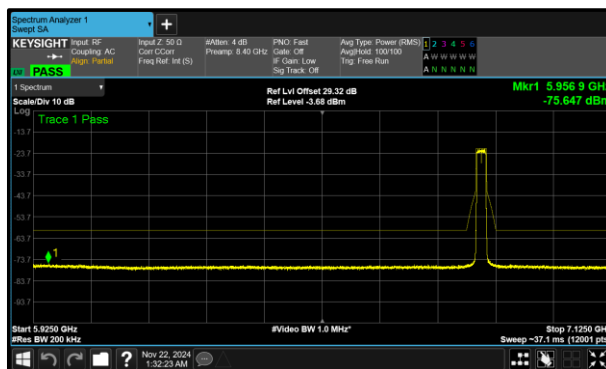


**Figure 336 - A (Core 0) 802.11ax HE20 SU VLP
6855 MHz (CH181)**

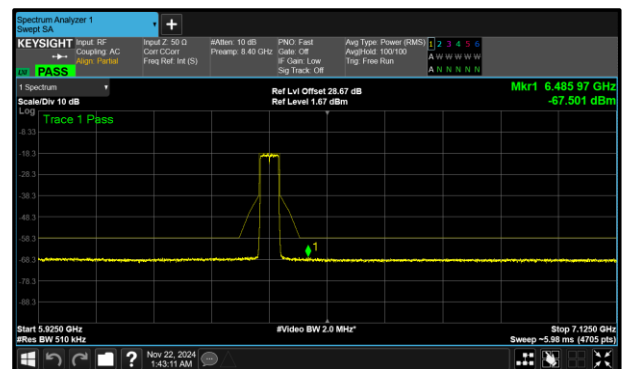


**Figure 337 - B (Core 1) 802.11ax HE40 SU VLP
6405 MHz (CH91)**

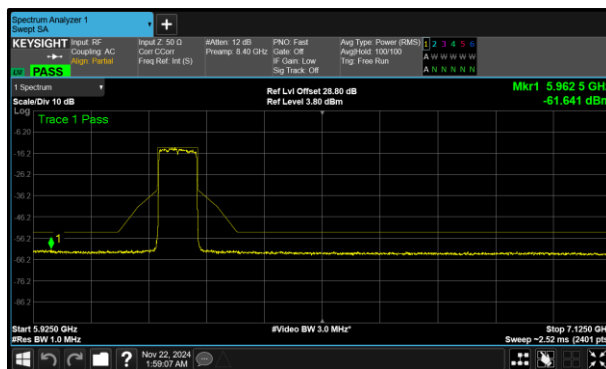


**Figure 338 - A (Core 0) 802.11ax HE80 SU VLP
6225 MHz (CH55)**

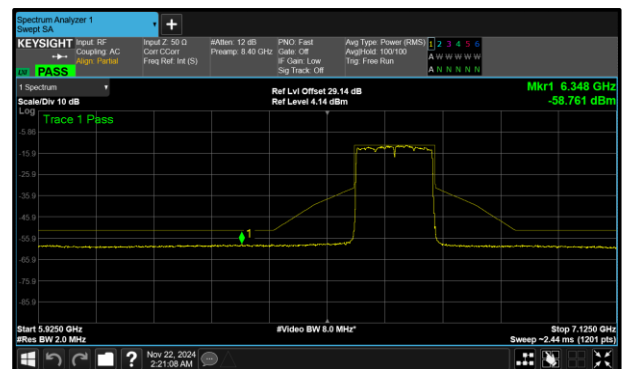


**Figure 339 - A (Core 0) 802.11ax HE160 SU VLP
6665 MHz (CH143)**



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (b)(7)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU VLP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6115	16.47	16.65	-	-
6275	15.98	16.44	-	-
6415	15.83	16.36	-	-
6535	15.79	16.37	-	-
6695	16.16	16.12	-	-
6855	15.65	15.73	-	-

Table 334 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (b)(7)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU VLP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6125	11.12	10.06	-	-
6285	10.19	10.53	-	-
6405	10.36	9.30	-	-
6565	10.28	10.89	-	-
6685	10.30	10.36	-	-
6845	10.28	10.30	-	-

Table 335 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (b)(7)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU VLP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6145	9.83	8.47	-	-
6225	8.14	9.84	-	-
6385	8.87	8.77	-	-
6625	8.42	9.72	-	-
6705	8.72	8.79	-	-
6785	9.48	9.99	-	-

Table 336 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (b)(7)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU VLP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6185	7.29	7.61	-	-
6345	7.06	7.15	-	-
6665	6.66	6.85	-	-

Table 337 - Unwanted Emissions Within the Band Results



TxBF

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE40 SU LPI	10.17	6133.163
802.11ax HE80 SU LPI	8.58	6293.500

Table 338 - Unwanted Emissions Within the RLAN Band Summary Results

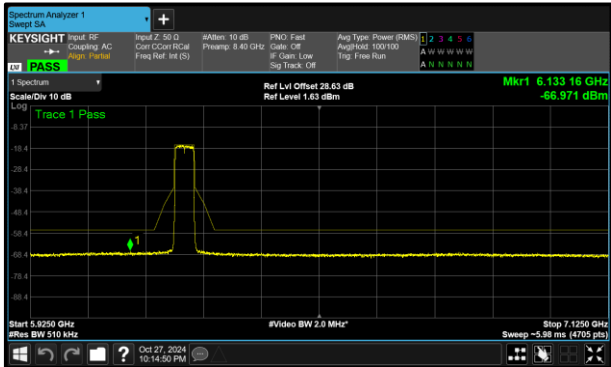


Figure 340 - B (Core 1) 802.11ax HE40 SU LPI
6245 MHz (CH59)

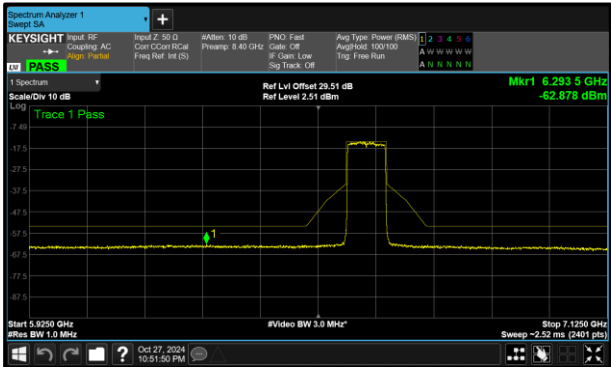


Figure 341 - A (Core 0) 802.11ax HE80 SU LPI
6625 MHz (CH135)



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6125	10.88	11.43	-	-
6165	10.03	11.02	-	-
6245	10.30	10.17	-	-
6925	11.53	11.13	-	-
7005	11.48	11.53	-	-
7085	12.03	10.36	-	-

Table 339 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	9.39	9.81	-	-
6145	9.71	9.06	-	-
6385	9.72	9.57	-	-
6465	8.76	10.57	-	-
6545	9.71	9.04	-	-
6625	8.58	9.08	-	-
6705	9.60	10.21	-	-
6785	10.20	9.63	-	-
6865	10.61	10.33	-	-
6945	9.29	10.37	-	-
7025	9.53	10.97	-	-

Table 340 - Unwanted Emissions Within the Band Results

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU SP	12.53	6820.900
802.11ax HE40 SU SP	9.89	6063.776
802.11ax HE80 SU SP	8.00	6260.500

Table 341 - Unwanted Emissions Within the RLAN Band Summary Results

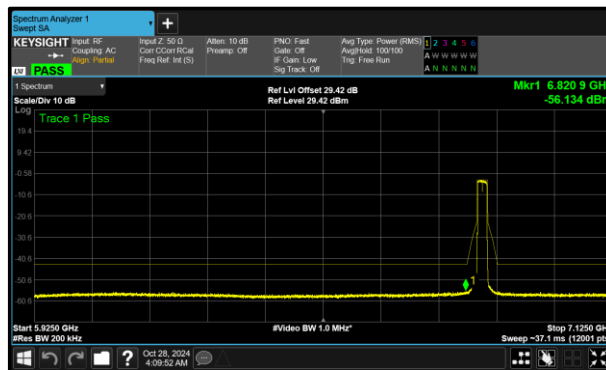


**Figure 342 - A (Core 0) 802.11ax HE20 SU SP
6855 MHz (CH181)**

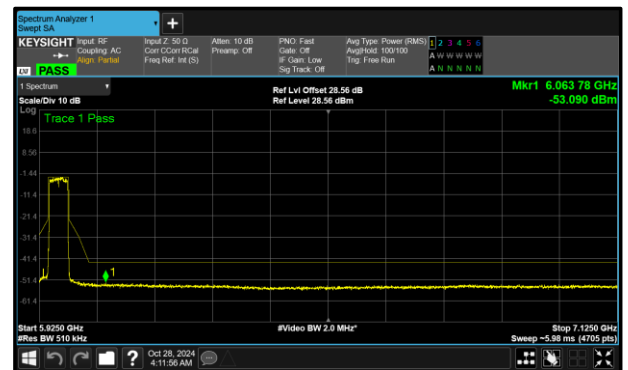


**Figure 343 - A (Core 0) 802.11ax HE40 SU SP
5965 MHz (CH3)**

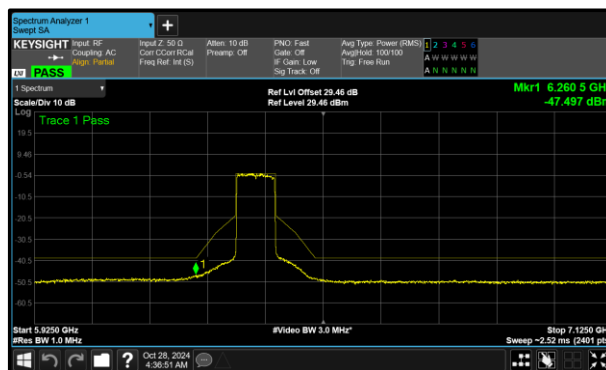


**Figure 344 - A (Core 0) 802.11ax HE80 SU SP
6385 MHz (CH87)**



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	13.45	13.75	-	-
6175	12.87	13.86	-	-
6415	13.17	13.65	-	-
6435	13.01	13.46	-	-
6475	12.90	13.36	-	-
6515	12.92	13.47	-	-
6535	13.22	13.61	-	-
6695	13.20	14.18	-	-
6855	12.53	12.89	-	-

Table 342 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5965	9.89	12.53	-	-
6165	12.07	12.33	-	-
6405	11.65	12.02	-	-
6445	11.86	12.44	-	-
6485	12.02	12.80	-	-
6525	12.21	12.89	-	-
6565	12.37	12.88	-	-
6685	12.93	12.39	-	-
6845	11.46	12.23	-	-

Table 343 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-6 U-NII-7
Limit Clause(s):	15.407 (b)(7) RSS-248 4.6.2	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	9.64	10.49	-	-
6145	10.44	10.07	-	-
6385	8.00	9.19	-	-
6465	9.27	9.45	-	-
6545	9.63	9.46	-	-
6625	9.51	10.53	-	-
6705	9.41	10.74	-	-
6785	9.70	9.85	-	-

Table 344 - Unwanted Emissions Within the Band Results



FCC 47 CFR Part 15, Limit Clause 15.407(b)(6)

For transmitters operating within the 5.925-7.125 GHz bands:

Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel centre, and by 40 dB at one- and one-half times the channel bandwidth away from channel centre. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the centre of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel centre by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

ISED RSS-248, Limit Clause 4.6.2(b)

e.i.r.p. spectral density of unwanted emissions falling into the 5925-7125 MHz band shall be attenuated (in dB) below the reference power spectral density by:

- i. 20 dB at 1 MHz away from the channel edge; and
- ii. a linearly interpolated value between 20 dB and 28 dB at frequencies between 1 MHz outside of channel edge and one (1) channel bandwidth from the operating channel centre, respectively; and
- iii. 28 dB at one (1) channel bandwidth away from the operating channel centre; and
- iv. a linearly interpolated value between 28 dB and 40 dB at frequencies between one (1) channel bandwidth from the channel centre and one- and one-half (1.5) times the channel bandwidth away from the operating channel centre, respectively; and
- v. 40 dB at one- and one-half (1.5) times the channel bandwidth away from the channel centre; and
- vi. a minimum of 40 dB at frequencies that are further away than one and one-half (1.5) times the channel bandwidth from the channel centre.



2.7.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024*
Hygrometer	Rotronic	I-1000	3068	12	19-Nov-2025*
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	26-Feb-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6419	24	28-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6517	12	22-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6526	12	22-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6527	12	05-Mar-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	16-Feb-2025
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon
AC Programmable Power Supply	iTech	IT7324	6665	-	O/P Mon
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 345

O/P Mon - Output Monitored using calibrated equipment

*NOTE: Only used within calibration period.



2.8 Contention Based Protocol

2.8.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (d)(6)
ISED RSS-248, Clause 4.7

2.8.2 Equipment Under Test and Modification State

A3240, S/N: KF2C62T3JJ - Modification State 0

2.8.3 Date of Test

01-October-2024 and 26-February-2025

2.8.4 Test Method

This test was performed in accordance with KDB 987594 D02, clause I.

The AWGN signal level was initially set at a level much less than the required threshold level ($<< -62$ dBm) it was verified at this point that transmissions from the device under test (DUT) were present. The signal level was gradually increased until it was observed that the DUT continuously ceased transmissions with the AWGN signal present, i.e. no partial transmissions other than short control signalling transmissions.

The AWGN Signal level recorded is the level into the DUT's receiver, corrected for all cable losses. The minimum antenna gain value was then used to correct the level as described in KDB 987594 D04, as opposed to the peak antenna gain that appears in section 1.4.4.

Timing plots showing verification that transmissions from the DUT responded to the interferer have been included in the test results below.

For 160 MHz bandwidth time domain plots the spectrum analyser frequency was set to the centre frequency of the 20 MHz control channel portion. This was deemed worst-case, since further disallowed transmissions may occur only on the control channel, not necessarily across the full 160 MHz bandwidth. It additionally showed that the access point beacons were still present and so only the DUT shut down, proving communications were not ceased due to the access point shutting down. As a result, after the shutdown of the DUT any transmissions from the router can still be seen. An example plot in the frequency domain is provided at the end of the results section as evidence to show that the lower-level signals are the router and are not coming from the DUT.

The EUT does not support channel puncturing or bandwidth reduction for the purposes of incumbent avoidance, with the whole channel shutting down when an incumbent signal is present.

2.8.5 Test Setup Diagram

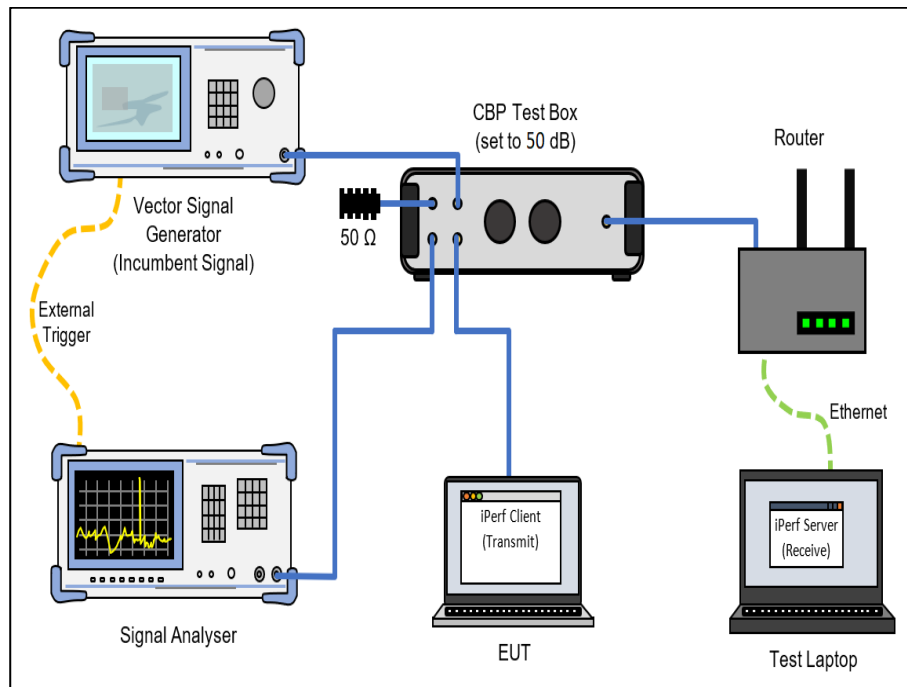


Figure 345 - Test Equipment Setup Diagram

2.8.6 Environmental Conditions

Ambient Temperature	22.9 °C
Relative Humidity	39.2 %



2.8.7 Test Results

6 GHz WLAN

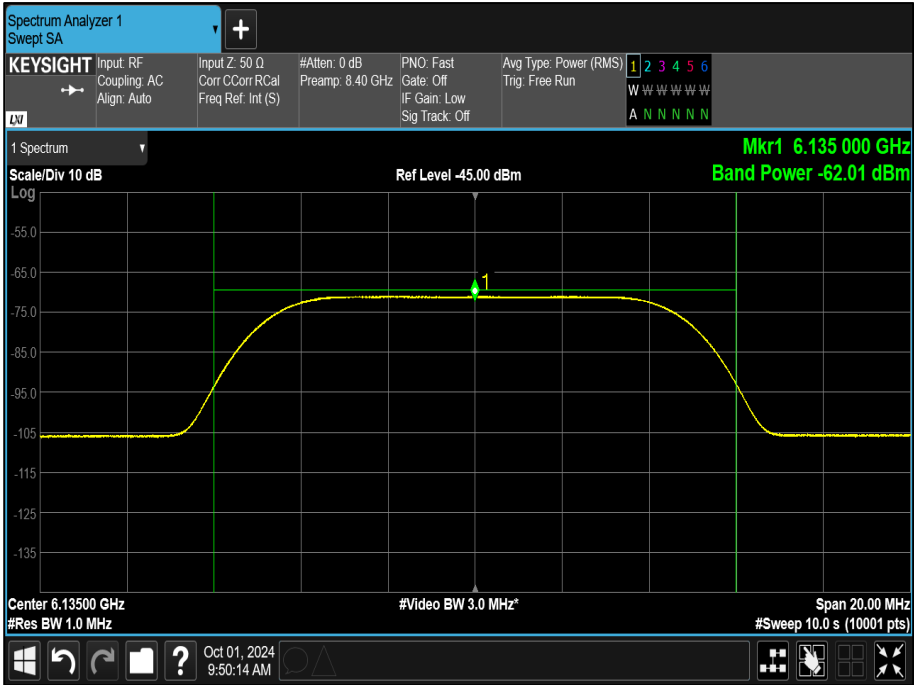


Figure 346 - Example of AWGN Signal



Parameter	Results		
U-NII Band	5	5	5
Channel Number	37	37	37
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6135	6135	6135
AWGN Centre Frequency (MHz)	6135	6135	6135
AWGN Signal Power (dBm)	-70.37	-69.59	-66.99
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-72.96	-72.18	-69.58
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 346 - U-NII-5, Minimum Bandwidth

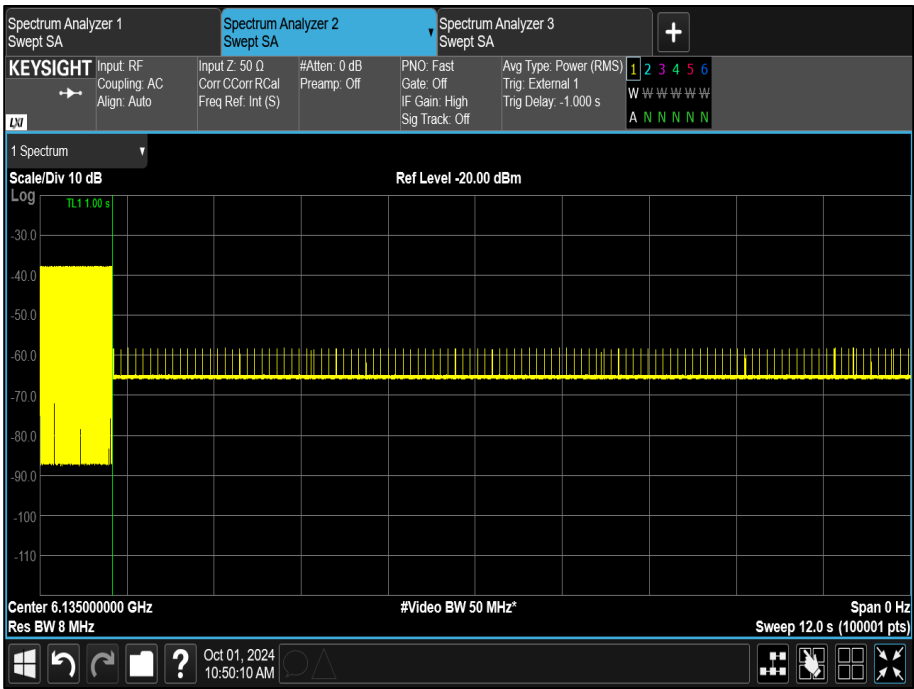


Figure 347 - U-NII-5, Minimum Bandwidth, OFF Level



Parameter	Results		
U-NII Band	5	5	5
Channel Number	47	47	47
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6185	6185	6185
AWGN Centre Frequency (MHz)	6110	6110	6110
AWGN Signal Power (dBm)	-67.31	-66.52	-63.76
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-69.90	-69.11	-66.35
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 347 - U-NII-5, Maximum Bandwidth (AWGN Low)



Figure 348 - U-NII-5, Maximum Bandwidth (AWGN Low), OFF Level



Parameter	Results		
U-NII Band	5	5	5
Channel Number	47	47	47
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6185	6185	6185
AWGN Centre Frequency (MHz)	6185	6185	6185
AWGN Signal Power (dBm)	-69.81	-68.22	-63.67
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-72.40	-70.81	-66.26
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 348 - U-NII-5, Maximum Bandwidth (AWGN Mid)



Figure 349 - U-NII-5, Max Maximum Bandwidth (AWGN Mid), OFF Level



Parameter	Results		
U-NII Band	5	5	5
Channel Number	47	47	47
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6185	6185	6185
AWGN Centre Frequency (MHz)	6260	6260	6260
AWGN Signal Power (dBm)	-64.42	-63.34	-62.52
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-67.01	-65.93	-65.11
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 349 - U-NII-5, Maximum Bandwidth (AWGN High)

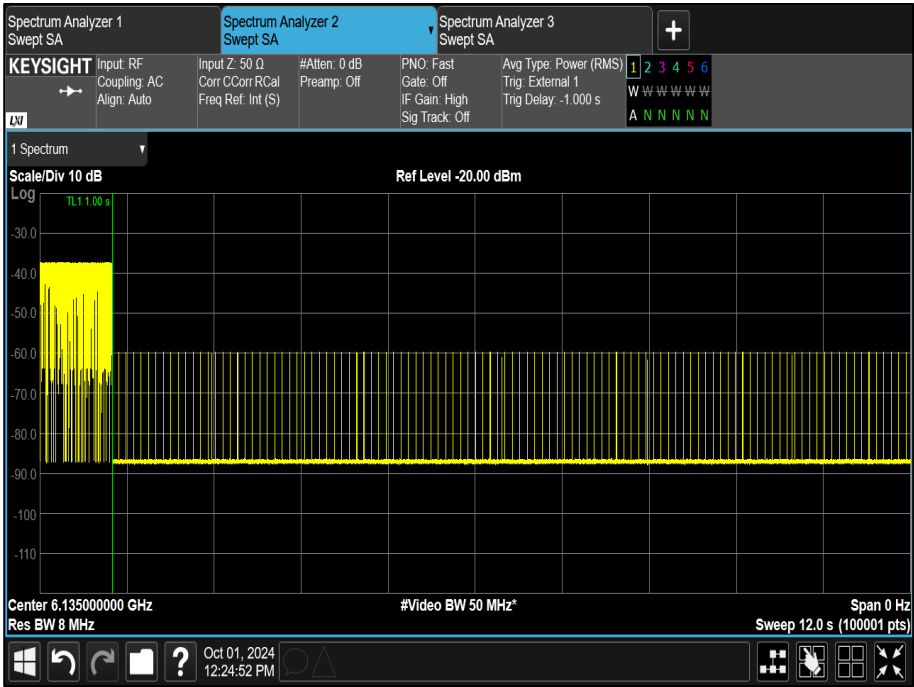


Figure 350 - U-NII-5, Maximum Bandwidth (AWGN High), OFF Level

Parameter	Results		
U-NII Band	6	6	6
Channel Number	101	101	101
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6455	6455	6455
AWGN Centre Frequency (MHz)	6455	6455	6455
AWGN Signal Power (dBm)	-70.00	-68.94	-67.96
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-72.59	-71.53	-70.55
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 350 - U-NII-6, Minimum Bandwidth

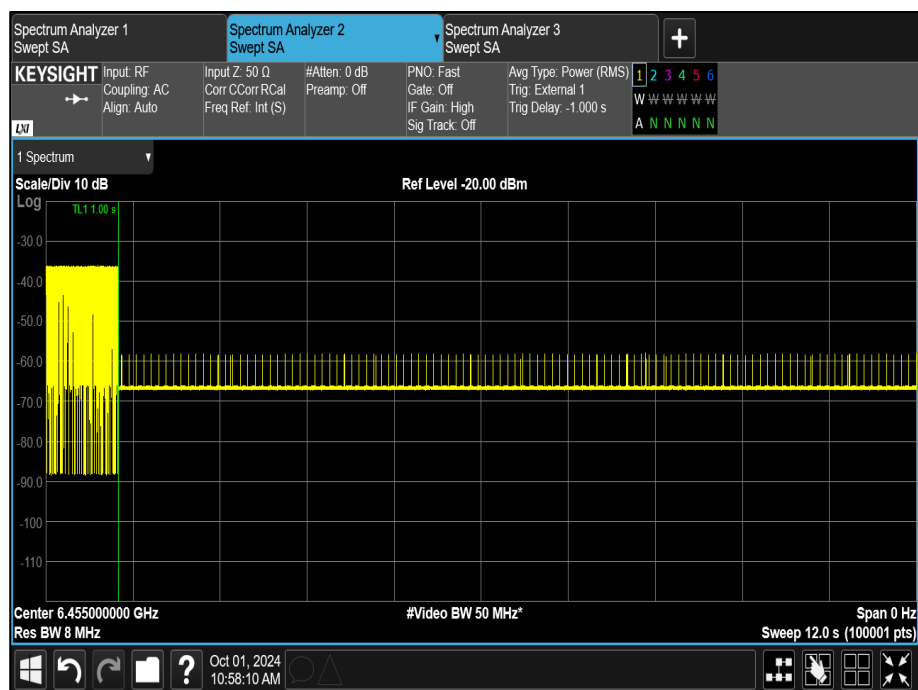


Figure 351 - U-NII-6, Minimum Bandwidth, OFF Level



Parameter	Results		
U-NII Band	6	6	6
Channel Number	111	111	111
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6505	6505	6505
AWGN Centre Frequency (MHz)	6430	6430	6430
AWGN Signal Power (dBm)	-66.53	-65.47	-63.66
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-69.12	-68.06	-66.25
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 351 - U-NII-6, Maximum Bandwidth (AWGN Low)

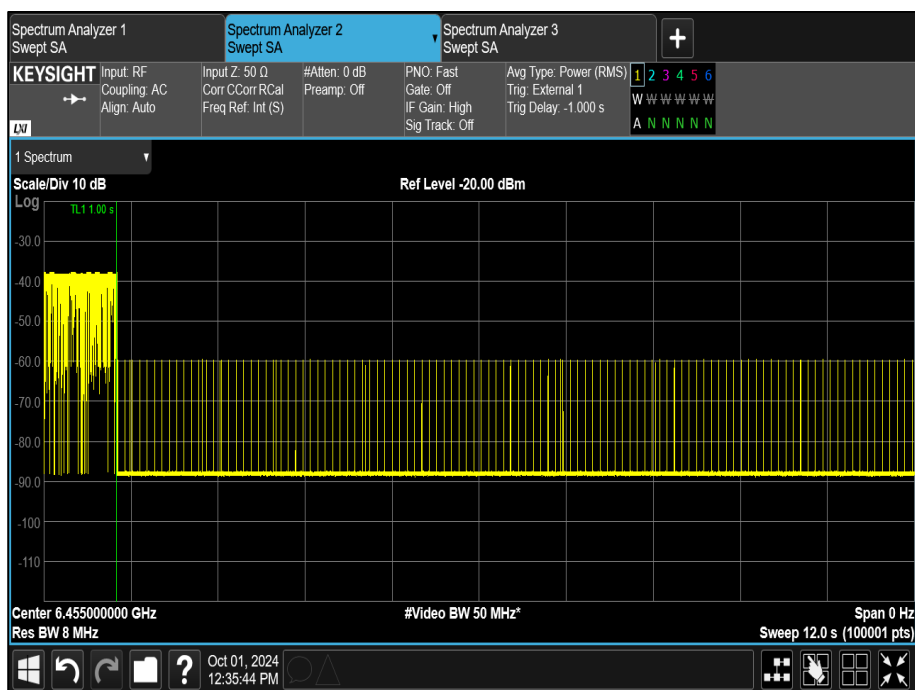


Figure 352 - U-NII-6, Maximum Bandwidth (AWGN Low), OFF Level



Parameter	Results		
U-NII Band	6	6	6
Channel Number	111	111	111
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6505	6505	6505
AWGN Centre Frequency (MHz)	6505	6505	6505
AWGN Signal Power (dBm)	-68.07	-66.62	-64.72
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-70.66	-69.21	-67.31
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 352 - U-NII-6, Maximum Bandwidth (AWGN Mid)



Figure 353 - U-NII-6, Maximum Bandwidth (AWGN Mid), OFF Level



Parameter	Results		
U-NII Band	6	6	6
Channel Number	111	111	111
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6505	6505	6505
AWGN Centre Frequency (MHz)	6580	6580	6580
AWGN Signal Power (dBm)	-63.73	-63.34	-61.74
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-66.32	-65.93	-64.33
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 353 - U-NII-6, Maximum Bandwidth (AWGN High)



Figure 354 - U-NII-6, Maximum Bandwidth (AWGN High), OFF Level



Parameter	Results		
U-NII Band	7	7	7
Channel Number	133	133	133
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6615	6615	6615
AWGN Centre Frequency (MHz)	6615	6615	6615
AWGN Signal Power (dBm)	-69.50	-68.73	-68.34
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-72.09	-71.32	-70.93
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 354 - U-NII-7, Minimum Bandwidth

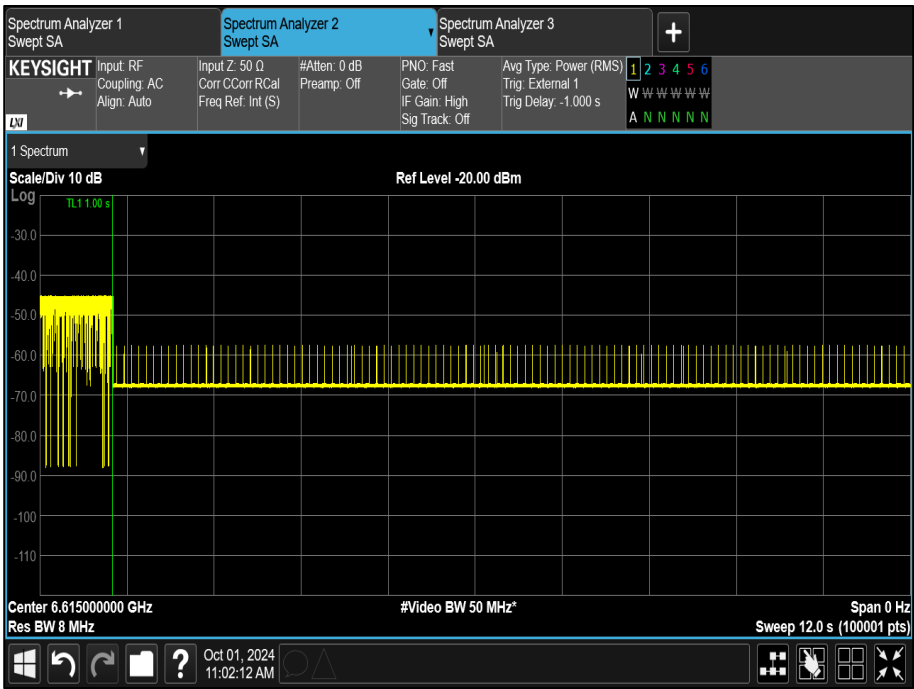


Figure 355 - U-NII-7, Minimum Bandwidth, OFF Level



Parameter	Results		
U-NII Band	7	7	7
Channel Number	143	143	143
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6665	6665	6665
AWGN Centre Frequency (MHz)	6590	6590	6590
AWGN Signal Power (dBm)	-64.69	-63.29	-61.99
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-67.28	-65.88	-64.58
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 355 - U-NII-7, Maximum Bandwidth (AWGN Low)

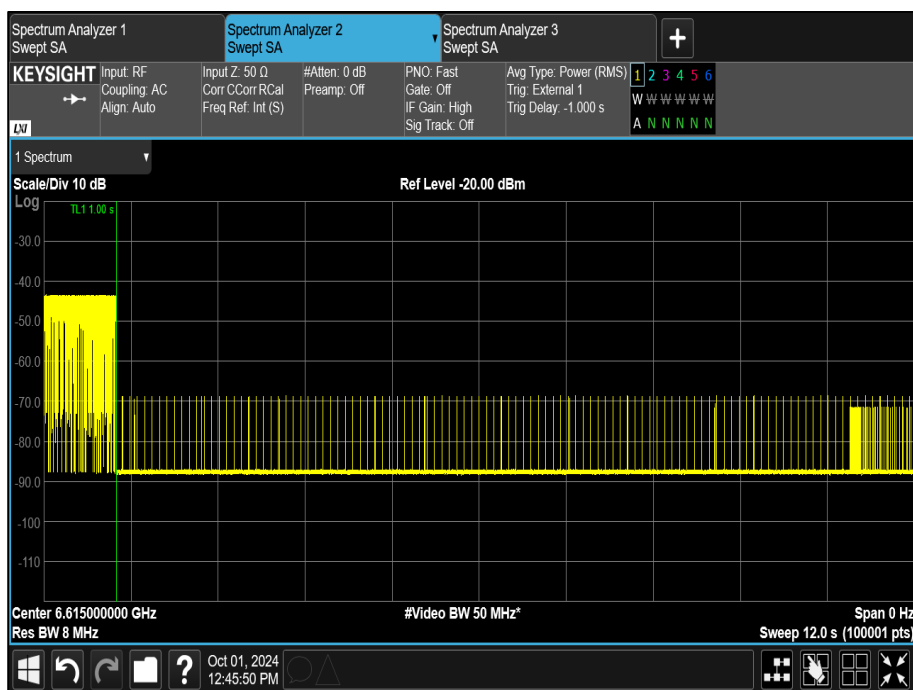


Figure 356 - U-NII-7, Maximum Bandwidth (AWGN Low), OFF Level



Parameter	Results		
U-NII Band	7	7	7
Channel Number	143	143	143
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6665	6665	6665
AWGN Centre Frequency (MHz)	6665	6665	6665
AWGN Signal Power (dBm)	-68.44	-67.75	-62.70
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-71.03	-70.34	-65.29
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 356 - U-NII-7, Maximum Bandwidth (AWGN Mid)



Figure 357 - U-NII-7, Maximum Bandwidth (AWGN Mid), OFF Level



Parameter	Results		
U-NII Band	7	7	7
Channel Number	143	143	143
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6665	6665	6665
AWGN Centre Frequency (MHz)	6740	6740	6740
AWGN Signal Power (dBm)	-64.10	-62.52	-59.76
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-66.69	-65.11	-62.35
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 357 - U-NII-7, Maximum Bandwidth (AWGN High)

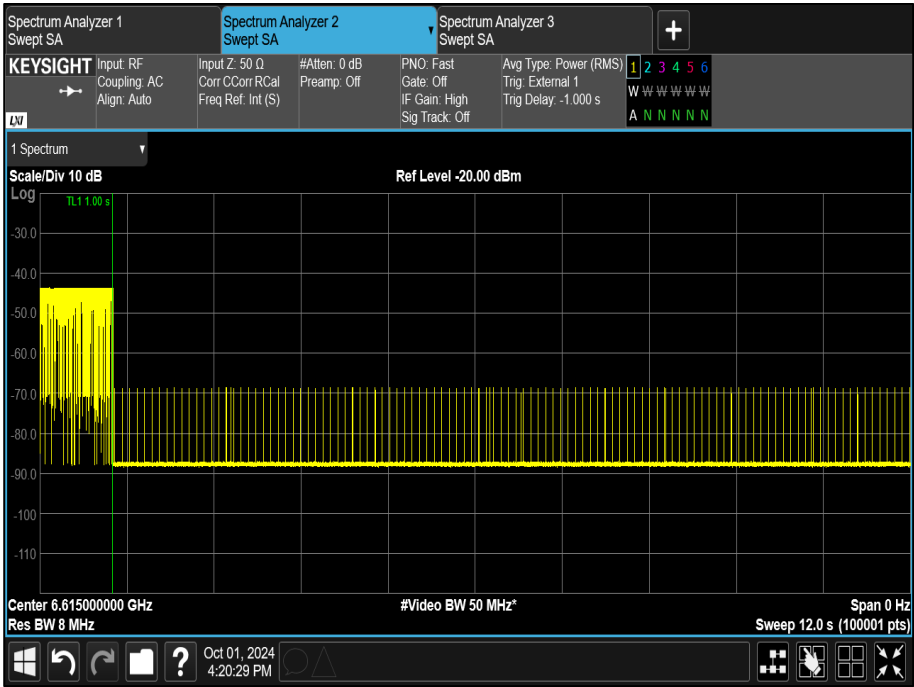


Figure 358 - U-NII-7, Maximum Bandwidth (AWGN High), OFF Level



Parameter	Results		
U-NII Band	8	8	8
Channel Number	197	197	197
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6935	6935	6935
AWGN Centre Frequency (MHz)	6935	6935	6935
AWGN Signal Power (dBm)	-71.24	-70.44	-69.34
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-73.83	-73.03	-71.93
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 358 - U-NII-8, Minimum Bandwidth

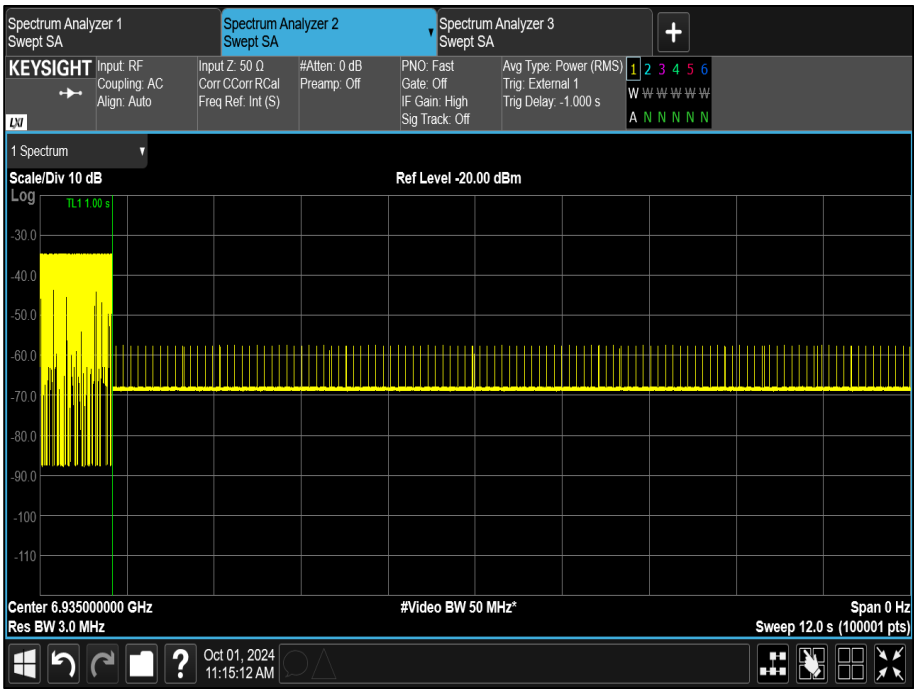


Figure 359 - U-NII-8, Minimum Bandwidth, OFF Level



Parameter	Results		
U-NII Band	8	8	8
Channel Number	207	207	207
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6985	6985	6985
AWGN Centre Frequency (MHz)	6910	6910	6910
AWGN Signal Power (dBm)	-67.29	-65.70	-63.69
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-69.88	-68.29	-66.28
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 359 - U-NII-8, Maximum Bandwidth (AWGN Low)



Figure 360 - U-NII-8, Maximum Bandwidth (AWGN Low), OFF Level



Parameter	Results		
U-NII Band	8	8	8
Channel Number	207	207	207
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6985	6985	6985
AWGN Centre Frequency (MHz)	6985	6985	6985
AWGN Signal Power (dBm)	-71.24	-69.01	-65.90
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-73.83	-71.60	-68.49
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 360 - U-NII-8, Maximum Bandwidth (AWGN Mid)



Figure 361 - U-NII-8, Maximum Bandwidth (AWGN Mid), OFF Level



Parameter	Results		
U-NII Band	8	8	8
Channel Number	207	207	207
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6985	6985	6985
AWGN Centre Frequency (MHz)	7060	7060	7060
AWGN Signal Power (dBm)	-64.09	-63.15	-60.58
Antenna Gain (dBi)	2.59	2.59	2.59
Adjusted Power (dBm)	-66.68	-65.74	-63.17
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 361 - U-NII-8, Maximum Bandwidth (AWGN High)

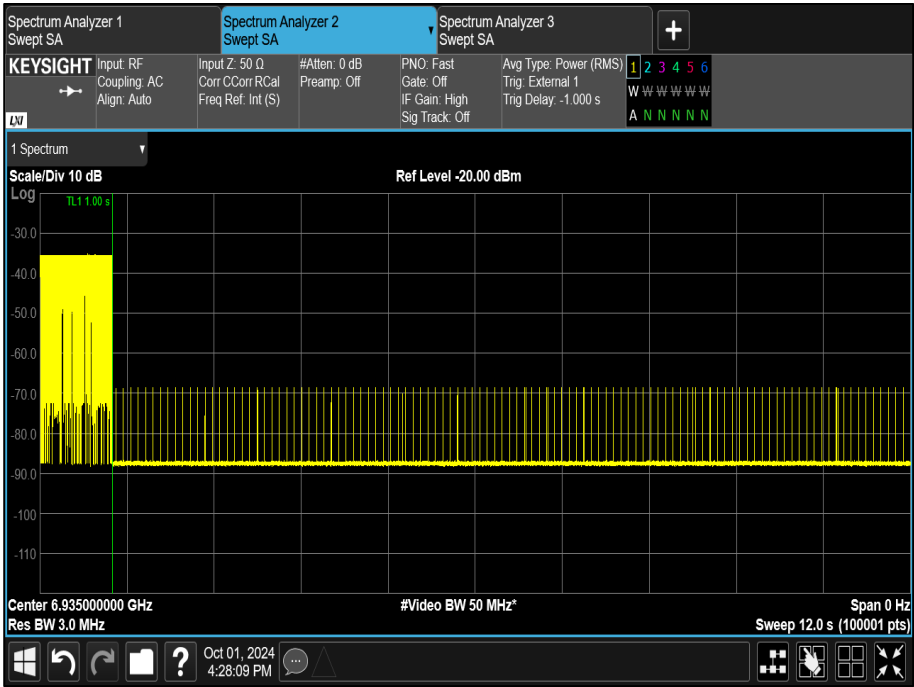


Figure 362 - U-NII-8, Maximum Bandwidth (AWGN High), OFF Level

Frequency Domain Plot

The below 160 MHz bandwidth example plot shows the relative signals in the frequency domain during testing of channel 47 (6185 MHz). The cyan trace shows the level and bandwidth of the DUT during data transfer. The yellow trace shows the router idling and intermittently beaconing without the DUT present only within the 20 MHz control channel portion (channel 37 / 6135 MHz). The pink trace shows both DUT and router when the interferer is present. When the interferer is present it can be observed that the only other signal is the router, transmitting only within the control channel portion at the same amplitude as when the EUT is not present. Therefore, it can be proven that any other transmissions at a similar amplitude to the router's 100 ms beacons are also coming from the router. Note the amplitude appears slightly smaller than the time domain plots due to the reduction in RBW to give greater frequency resolution.



Figure 363 – Frequency Domain Plot of Channel 47 (6185 MHz) Shutdown

FCC 47 CFR Part 15.407 (d)(6)

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

KDB 987594, Limit Clause I

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel



as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

ISED RSS-248, Limit Clause 4.7.2

The minimum detection threshold power is the received power referenced to a 0 dBi antenna. Devices shall use a contention-based protocol to detect the presence of any emissions on the channel that the device intends to occupy. The device shall be able to detect, within its entire occupied bandwidth, a radio frequency power of at least -62 dBm or lower.

If an emission is detected on a channel, the device shall cease transmissions and shall not resume transmissions on this channel while the detected radio frequency power is at or above the -62 dBm threshold.



2.8.8 Test Location and Test Equipment Used

This test was carried out in Shielded Laboratory 1.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
3.5 mm 1m Cable	Junkosha	MWX221-01000DMS	5416	12	07-Mar-2025
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5426	12	16-May-2025
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5427	12	23-May-2025
3.5mm Cable (1m)	Junkosha	MWX221/B	5838	12	29-Jul-2025
Vector Signal Generator	Rohde & Schwarz	SMM100A	5915	36	01-Mar-2026
WiFi 6E Tri-Band Gaming Router	Asus	GT-AXE110000	5926	-	TU
Thermohygrometer	R.S Components	1364	6352	12	13-Jun-2025
MXA Signal Analyzer	Keysight Technologies	N9020B	6415	24	22-Mar-2025
Test Coupling Network	TUV SUD	TUV_RxTest_001	6441	12	30-Apr-2025

Table 362

TU - Traceability Unscheduled



2.9 Transmit Power Control

2.9.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (d)(10)

2.9.2 Equipment Under Test and Modification State

A3240, S/N: KF2C62T3JJ - Modification State 0

2.9.3 Date of Test

04-October-2024

2.9.4 Test Method

The purpose of this test is to demonstrate the ability of the device under test (DUT) to increase and decrease its power by a minimum of 6 dB as the RSSI is decreased and increased.

The DUT and companion device was setup for peer-to-peer communication as shown in the test setup diagram below.

Initially the value of the step attenuator is set to 0 dB and the power spectral density (PSD) was measured, the result was noted as RSSI (High). The step attenuation was then increased up to a value of 50 dB and the PSD was measured again and this was noted as RSSI (Low). The difference in the PSD was computed and compared to the 6 dB requirement.

2.9.5 Test Setup Diagram

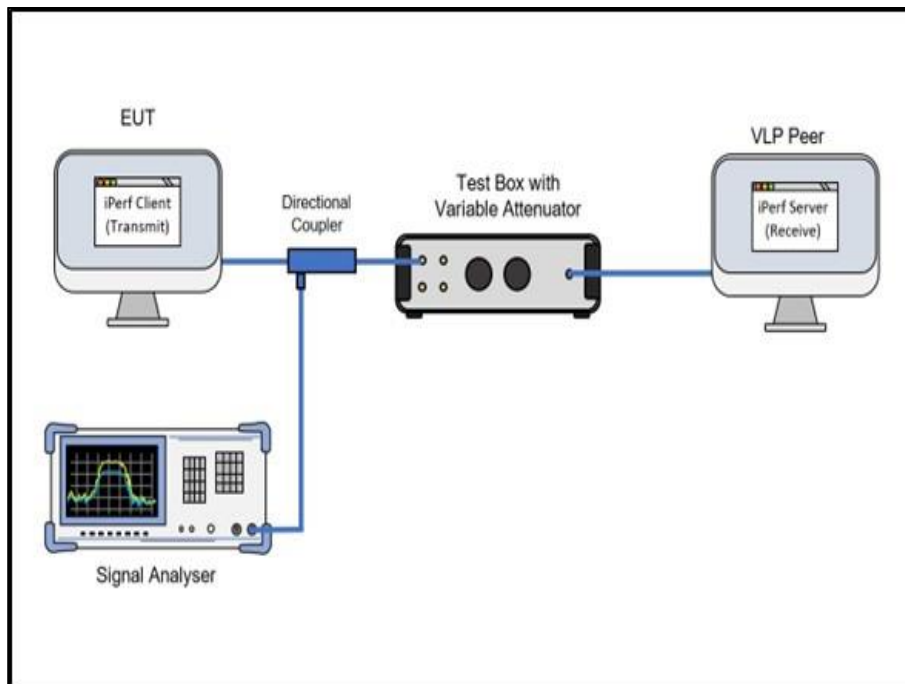


Figure 364 - Test Equipment Setup Diagram

2.9.6 Environmental Conditions

Ambient Temperature	21.2 °C
Relative Humidity	41.2 %



2.9.7 Test Results

6 GHz WLAN

Frequency (MHz)	Bandwidth (MHz)	Power Spectral Density (dBm/MHz) EIRP		TPC Low Limit (dBm/MHz)	Margin (dB)	Δ PSD (dB)	Verdict
		TPC High	TPC Low				
6185	160	-9.31	-15.91	-11.0	-4.91	6.60	Pass

Table 363 - TPC VLP Results

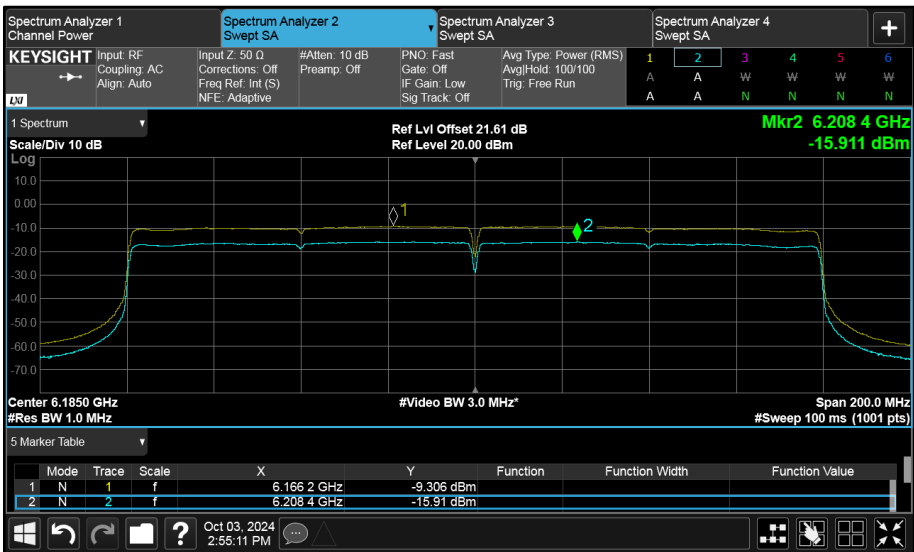


Figure 365 - TPC VLP

FCC 47 CFR Part 15, Limit Clause 15.407(d)(10)

Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.



2.9.8 Test Location and Test Equipment Used

This test was carried out in Shielded Laboratory 1.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
EXA Signal Analyser	Keysight Technologies	N9010B	4968	24	29-Jan-2026
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5430	12	16-May-2025
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5765	-	O/P Mon
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5936	12	23-May-2025
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5938	12	23-May-2025
Thermohygrometer	R.S Components	1364	6352	12	13-Jun-2025
Test Coupling Network	TUV SUD	TUV_RxTest_001	6387	12	06-Sep-2025

Table 364

O/P Mon - Output Monitored using calibrated equipment



3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Emission Bandwidth	$\pm 3.91\text{MHz}$
Dual Client Test	$\pm 1.38\text{ dB}$
Maximum Conducted Output Power	$\pm 1.38\text{ dB}$
Maximum Conducted Power Spectral Density	$\pm 1.49\text{ dB}$
Authorised Band Edges	$\pm 6.3\text{ dB}$
Spurious Radiated Emissions	30 MHz to 1 GHz: $\pm 5.2\text{ dB}$ 1 GHz to 40 GHz: $\pm 6.3\text{ dB}$
Unwanted Emissions within the 5925-7125 MHz band	$\pm 3.45\text{ dB}$
Contention Based Protocol	Time: 0.30% Interferer BW: 267.98 kHz Interferer Level: 0.80 dB
Transmit Power Control	$\pm 1.49\text{ dB}$

Table 365

Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.