

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	98.40%	0	Fig.1
802.11a	5180	98.37%	0	Fig.2
802.11n HT20	5180	98.13%	0	Fig.3
802.11n HT20	5180	98.23%	0	Fig.4
802.11ac VHT20	5180	98.31%	0	Fig.5
802.11ac VHT20	5180	98.38%	0	Fig.6
802.11ax HE20	5180	96.65%	0.15	Fig.7
802.11ax HE20	5180	97.93%	0.09	Fig.8
802.11n HT40	5190	97.54%	0.11	Fig.9
802.11n HT40	5190	97.32%	0.12	Fig.10
802.11ac VHT40	5190	97.30%	0.12	Fig.11
802.11ac VHT40	5190	97.23%	0.12	Fig.12
802.11ax HE40	5190	96.50%	0.15	Fig.13
802.11ax HE40	5190	96.29%	0.16	Fig.14
802.11ac VHT80	5210	96.42%	0.16	Fig.15
802.11ac VHT80	5210	96.67%	0.15	Fig.16
802.11ax HE80	5210	96.43%	0.16	Fig.17
802.11ax HE80	5210	96.19%	0.17	Fig.18

Note: Correction Factor=10*log (1/Duty Cycle)



Fig.1

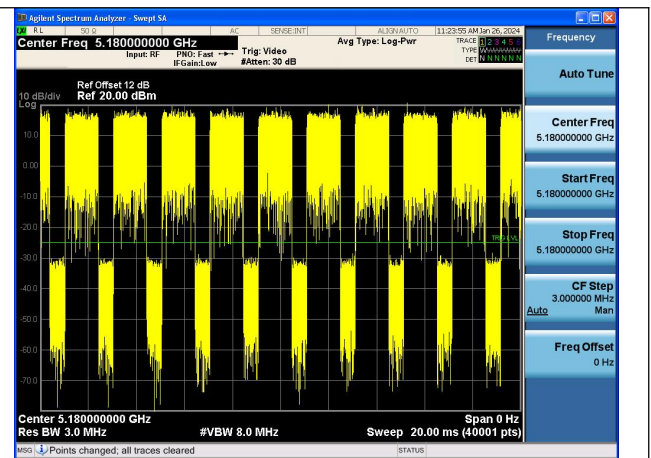


Fig.2

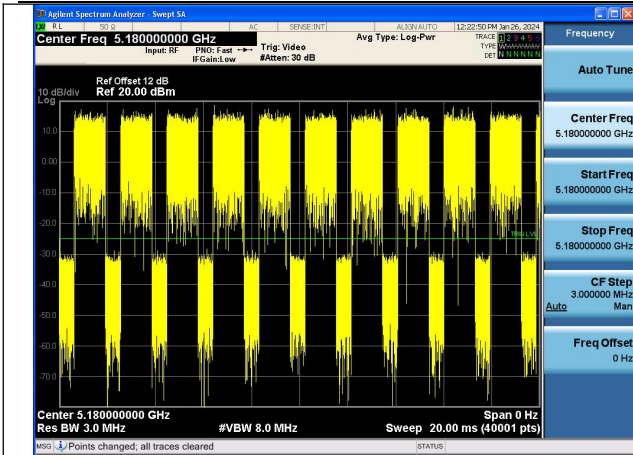


Fig.3

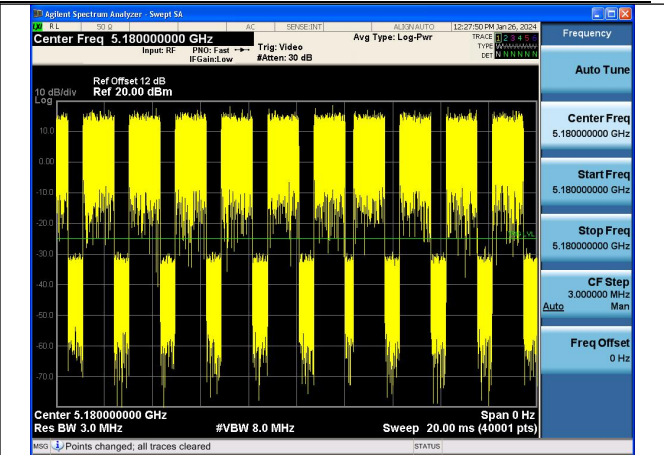


Fig.4

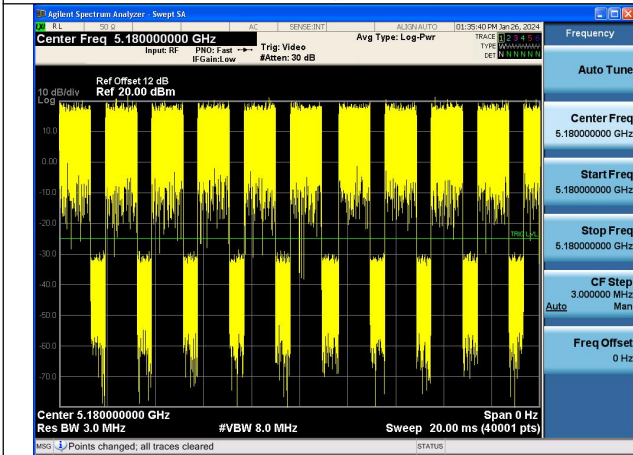


Fig.5

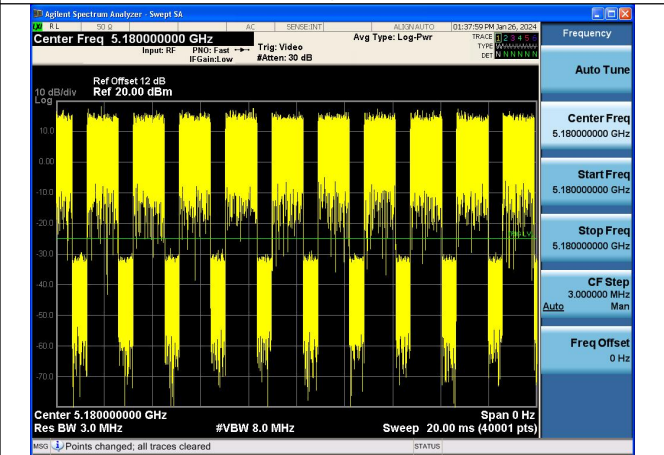


Fig.6

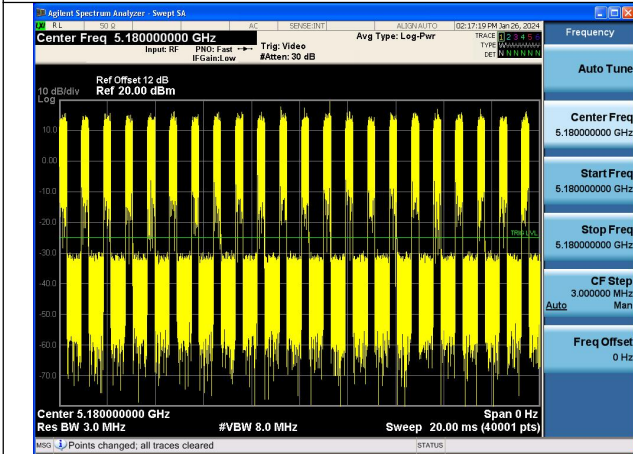


Fig.7

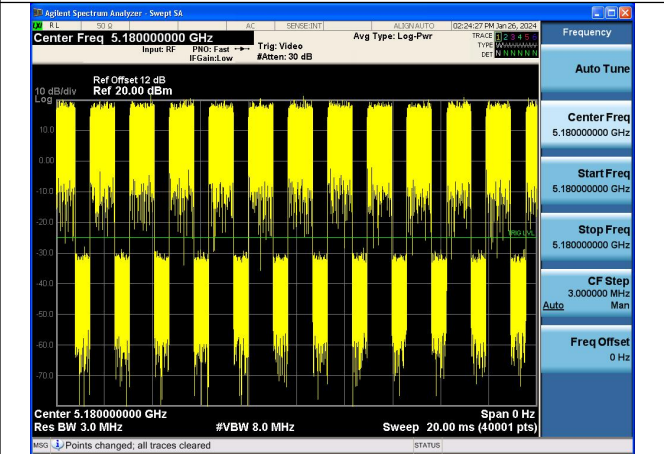


Fig.8

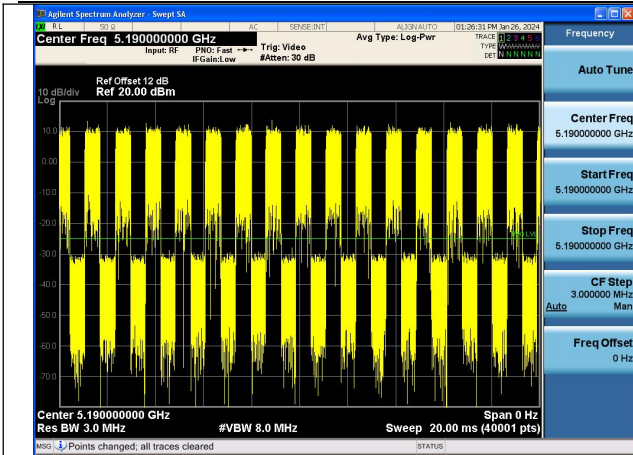


Fig.9

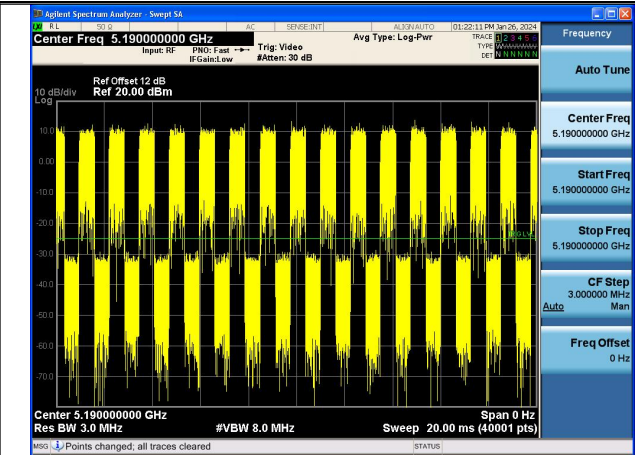


Fig.10

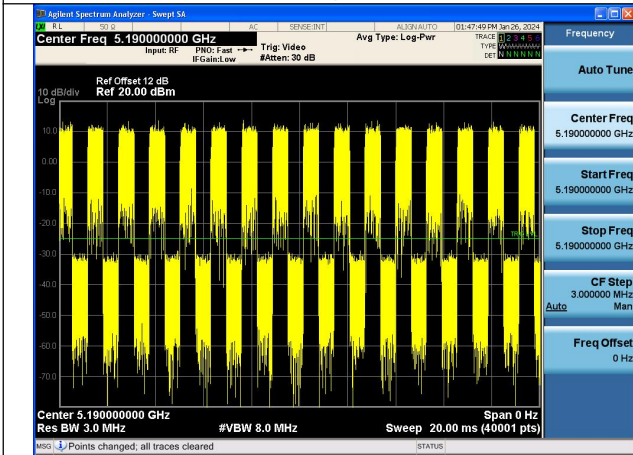


Fig.11

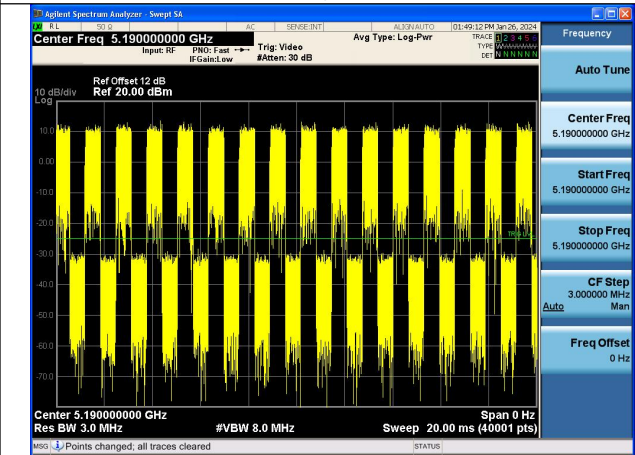


Fig.12

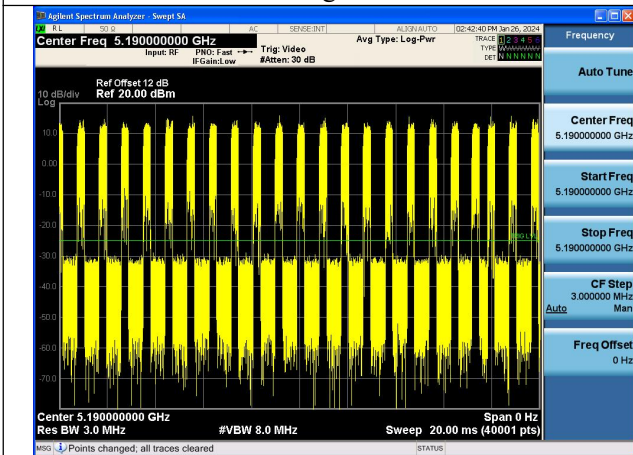


Fig.13

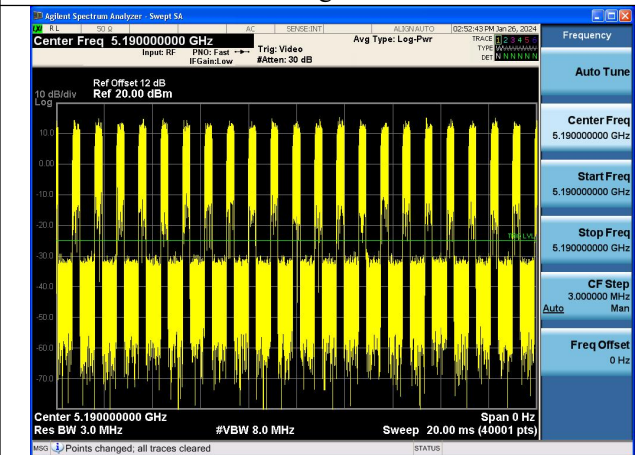


Fig.14

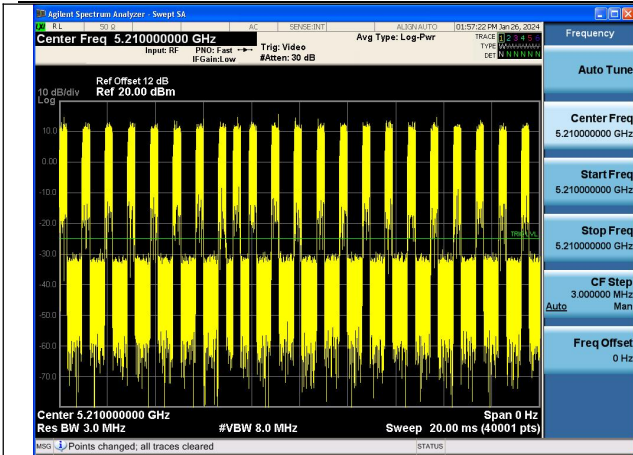


Fig.15

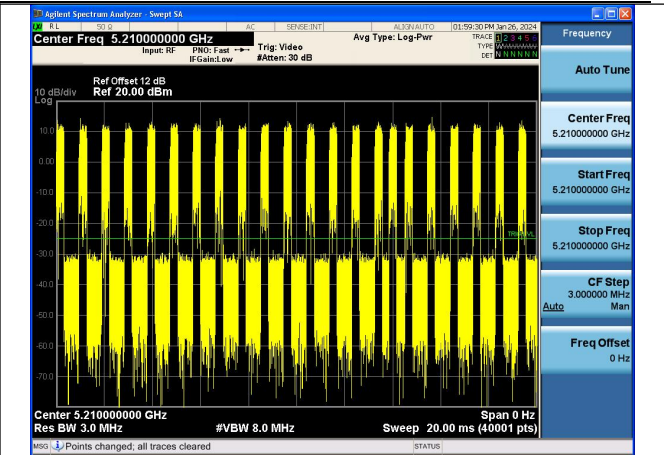


Fig.16

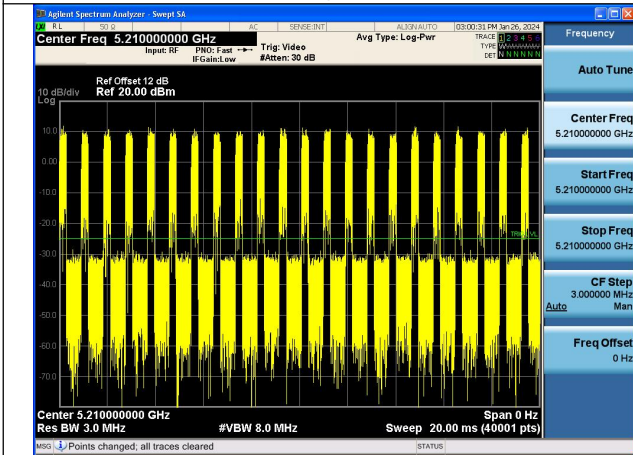


Fig.17

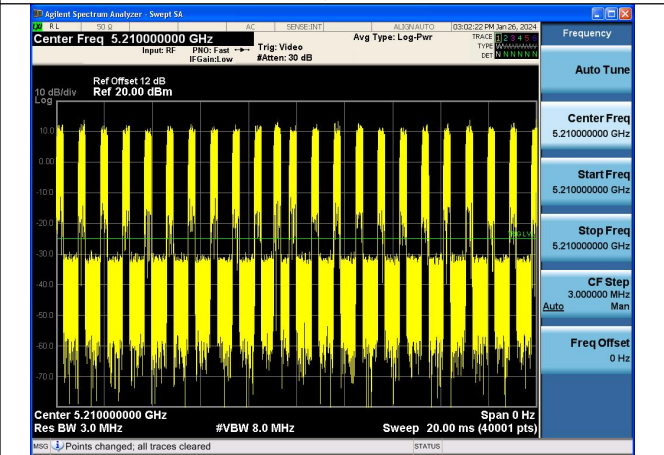


Fig.18

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	14.85	18.72
802.11a	NA	5180	Chain1	14.48	19.24
802.11a	NA	5220	Chain0	14.02	17.89
802.11a	NA	5220	Chain1	13.85	18.61
802.11a	NA	5240	Chain0	13.52	17.39
802.11a	NA	5240	Chain1	13.43	18.19
802.11n HT20	NA	5180	Chain0	11.53	15.40
802.11n HT20	NA	5180	Chain1	11.76	16.52
802.11n HT20	NA	5180	MIMO	14.66	19.00
802.11n HT20	NA	5220	Chain0	12.54	16.41
802.11n HT20	NA	5220	Chain1	12.13	16.89
802.11n HT20	NA	5220	MIMO	15.35	19.69
802.11n HT20	NA	5240	Chain0	11.54	15.41
802.11n HT20	NA	5240	Chain1	11.04	15.80
802.11n HT20	NA	5240	MIMO	14.31	18.65
802.11ac VHT20	NA	5180	Chain0	12.60	16.47
802.11ac VHT20	NA	5180	Chain1	11.98	16.74
802.11ac VHT20	NA	5180	MIMO	15.31	19.65
802.11ac VHT20	NA	5220	Chain0	12.36	16.23
802.11ac VHT20	NA	5220	Chain1	11.96	16.72
802.11ac VHT20	NA	5220	MIMO	15.17	19.51
802.11ac VHT20	NA	5240	Chain0	11.06	14.93
802.11ac VHT20	NA	5240	Chain1	12.40	17.16
802.11ac VHT20	NA	5240	MIMO	14.79	19.13
802.11n HT40	NA	5190	Chain0	9.81	13.68
802.11n HT40	NA	5190	Chain1	10.47	15.23
802.11n HT40	NA	5190	MIMO	13.16	17.50
802.11n HT40	NA	5230	Chain0	10.79	14.66
802.11n HT40	NA	5230	Chain1	9.52	14.28
802.11n HT40	NA	5230	MIMO	13.21	17.55
802.11ac VHT40	NA	5190	Chain0	12.34	16.21
802.11ac VHT40	NA	5190	Chain1	12.13	16.89
802.11ac VHT40	NA	5190	MIMO	15.25	19.59
802.11ac VHT40	NA	5230	Chain0	11.97	15.84
802.11ac VHT40	NA	5230	Chain1	11.94	16.70
802.11ac VHT40	NA	5230	MIMO	14.97	19.31
802.11ac VHT80	NA	5210	Chain0	12.02	15.89
802.11ac VHT80	NA	5210	Chain1	12.73	17.49
802.11ac VHT80	NA	5210	MIMO	15.40	19.74

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average	EIRP (dBm)
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				power output(dBm)	
802.11ax HE20	26T 0	5180	Chain0	9.21	13.08
802.11ax HE20	26T 0	5180	Chain1	8.25	13.01
802.11ax HE20	26T 0	5180	MIMO	11.77	16.11
802.11ax HE20	26T 0	5220	Chain0	9.89	13.76
802.11ax HE20	26T 0	5220	Chain1	8.11	12.87
802.11ax HE20	26T 0	5220	MIMO	12.10	16.44
802.11ax HE20	26T 0	5240	Chain0	10.37	14.24
802.11ax HE20	26T 0	5240	Chain1	8.25	13.01
802.11ax HE20	26T 0	5240	MIMO	12.45	16.79
802.11ax HE20	26T 4	5180	Chain0	7.43	11.30
802.11ax HE20	26T 4	5180	Chain1	8.44	13.20
802.11ax HE20	26T 4	5180	MIMO	10.97	15.31
802.11ax HE20	26T 4	5220	Chain0	8.53	12.40
802.11ax HE20	26T 4	5220	Chain1	8.40	13.16
802.11ax HE20	26T 4	5220	MIMO	11.48	15.82
802.11ax HE20	26T 4	5240	Chain0	8.47	12.34
802.11ax HE20	26T 4	5240	Chain1	8.71	13.47
802.11ax HE20	26T 4	5240	MIMO	11.60	15.94
802.11ax HE20	26T 8	5180	Chain0	8.79	12.66
802.11ax HE20	26T 8	5180	Chain1	8.54	13.30
802.11ax HE20	26T 8	5180	MIMO	11.68	16.02
802.11ax HE20	26T 8	5220	Chain0	8.38	12.25
802.11ax HE20	26T 8	5220	Chain1	7.89	12.65
802.11ax HE20	26T 8	5220	MIMO	11.15	15.49
802.11ax HE20	26T 8	5240	Chain0	8.40	12.27
802.11ax HE20	26T 8	5240	Chain1	8.67	13.43
802.11ax HE20	26T 8	5240	MIMO	11.55	15.89
802.11ax HE20	52T 37	5180	Chain0	8.13	12.00
802.11ax HE20	52T 37	5180	Chain1	7.94	12.70
802.11ax HE20	52T 37	5180	MIMO	11.05	15.39
802.11ax HE20	52T 37	5220	Chain0	7.47	11.34
802.11ax HE20	52T 37	5220	Chain1	7.88	12.64
802.11ax HE20	52T 37	5220	MIMO	10.69	15.03
802.11ax HE20	52T 37	5240	Chain0	8.04	11.91
802.11ax HE20	52T 37	5240	Chain1	8.37	13.13
802.11ax HE20	52T 37	5240	MIMO	11.22	15.56
802.11ax HE20	52T 39	5180	Chain0	8.16	12.03
802.11ax HE20	52T 39	5180	Chain1	8.11	12.87
802.11ax HE20	52T 39	5180	MIMO	11.15	15.49
802.11ax HE20	52T 39	5220	Chain0	7.51	11.38
802.11ax HE20	52T 39	5220	Chain1	8.36	13.12
802.11ax HE20	52T 39	5220	MIMO	10.97	15.31
802.11ax HE20	52T 39	5240	Chain0	8.20	12.07
802.11ax HE20	52T 39	5240	Chain1	8.55	13.31

802.11ax HE20	52T 39	5240	MIMO	11.39	15.73
802.11ax HE20	52T 40	5180	Chain0	8.22	12.09
802.11ax HE20	52T 40	5180	Chain1	8.38	13.14
802.11ax HE20	52T 40	5180	MIMO	11.31	15.65
802.11ax HE20	52T 40	5220	Chain0	8.26	12.13
802.11ax HE20	52T 40	5220	Chain1	7.89	12.65
802.11ax HE20	52T 40	5220	MIMO	11.09	15.43
802.11ax HE20	52T 40	5240	Chain0	8.85	12.72
802.11ax HE20	52T 40	5240	Chain1	8.50	13.26
802.11ax HE20	52T 40	5240	MIMO	11.69	16.03
802.11ax HE20	106T 53	5180	Chain0	7.88	11.75
802.11ax HE20	106T 53	5180	Chain1	8.18	12.94
802.11ax HE20	106T 53	5180	MIMO	11.04	15.38
802.11ax HE20	106T 53	5220	Chain0	7.42	11.29
802.11ax HE20	106T 53	5220	Chain1	7.37	12.13
802.11ax HE20	106T 53	5220	MIMO	10.41	14.75
802.11ax HE20	106T 53	5240	Chain0	7.23	11.10
802.11ax HE20	106T 53	5240	Chain1	7.60	12.36
802.11ax HE20	106T 53	5240	MIMO	10.43	14.77
802.11ax HE20	106T 54	5180	Chain0	7.62	11.49
802.11ax HE20	106T 54	5180	Chain1	7.42	12.18
802.11ax HE20	106T 54	5180	MIMO	10.53	14.87
802.11ax HE20	106T 54	5220	Chain0	6.90	10.77
802.11ax HE20	106T 54	5220	Chain1	7.03	11.79
802.11ax HE20	106T 54	5220	MIMO	9.98	14.32
802.11ax HE20	106T 54	5240	Chain0	7.80	11.67
802.11ax HE20	106T 54	5240	Chain1	7.94	12.70
802.11ax HE20	106T 54	5240	MIMO	10.88	15.22
802.11ax HE20	242T 61	5180	Chain0	12.46	16.33
802.11ax HE20	242T 61	5180	Chain1	12.45	17.21
802.11ax HE20	242T 61	5180	MIMO	15.47	19.81
802.11ax HE20	242T 61	5220	Chain0	12.35	16.22
802.11ax HE20	242T 61	5220	Chain1	12.12	16.88
802.11ax HE20	242T 61	5220	MIMO	15.25	19.59
802.11ax HE20	242T 61	5240	Chain0	11.91	15.78
802.11ax HE20	242T 61	5240	Chain1	12.40	17.16
802.11ax HE20	242T 61	5240	MIMO	15.17	19.51
802.11ax HE40	26T 0	5190	Chain0	9.69	13.56
802.11ax HE40	26T 0	5190	Chain1	5.75	10.51
802.11ax HE40	26T 0	5190	MIMO	11.16	15.50
802.11ax HE40	26T 0	5230	Chain0	5.24	9.11
802.11ax HE40	26T 0	5230	Chain1	6.76	11.52
802.11ax HE40	26T 0	5230	MIMO	9.08	13.42
802.11ax HE40	26T 10	5190	Chain0	6.17	10.04
802.11ax HE40	26T 10	5190	Chain1	7.66	12.42
802.11ax HE40	26T 10	5190	MIMO	9.99	14.33

802.11ax HE40	26T 10	5230	Chain0	7.49	11.36
802.11ax HE40	26T 10	5230	Chain1	7.70	12.46
802.11ax HE40	26T 10	5230	MIMO	10.61	14.95
802.11ax HE40	26T 17	5190	Chain0	7.80	11.67
802.11ax HE40	26T 17	5190	Chain1	7.10	11.86
802.11ax HE40	26T 17	5190	MIMO	10.47	14.81
802.11ax HE40	26T 17	5230	Chain0	8.15	12.02
802.11ax HE40	26T 17	5230	Chain1	7.67	12.43
802.11ax HE40	26T 17	5230	MIMO	10.93	15.27
802.11ax HE40	52T 37	5190	Chain0	7.85	11.72
802.11ax HE40	52T 37	5190	Chain1	7.70	12.46
802.11ax HE40	52T 37	5190	MIMO	10.79	15.13
802.11ax HE40	52T 37	5230	Chain0	7.83	11.70
802.11ax HE40	52T 37	5230	Chain1	7.97	12.73
802.11ax HE40	52T 37	5230	MIMO	10.91	15.25
802.11ax HE40	52T 41	5190	Chain0	8.18	12.05
802.11ax HE40	52T 41	5190	Chain1	8.95	13.71
802.11ax HE40	52T 41	5190	MIMO	11.59	15.93
802.11ax HE40	52T 41	5230	Chain0	8.39	12.26
802.11ax HE40	52T 41	5230	Chain1	8.71	13.47
802.11ax HE40	52T 41	5230	MIMO	11.56	15.90
802.11ax HE40	52T 44	5190	Chain0	8.34	12.21
802.11ax HE40	52T 44	5190	Chain1	8.50	13.26
802.11ax HE40	52T 44	5190	MIMO	11.43	15.77
802.11ax HE40	52T 44	5230	Chain0	8.28	12.15
802.11ax HE40	52T 44	5230	Chain1	8.59	13.35
802.11ax HE40	52T 44	5230	MIMO	11.45	15.79
802.11ax HE40	106T 53	5190	Chain0	9.00	12.87
802.11ax HE40	106T 53	5190	Chain1	8.85	13.61
802.11ax HE40	106T 53	5190	MIMO	11.94	16.28
802.11ax HE40	106T 53	5230	Chain0	8.43	12.30
802.11ax HE40	106T 53	5230	Chain1	8.95	13.71
802.11ax HE40	106T 53	5230	MIMO	11.71	16.05
802.11ax HE40	106T 55	5190	Chain0	9.01	12.88
802.11ax HE40	106T 55	5190	Chain1	8.76	13.52
802.11ax HE40	106T 55	5190	MIMO	11.90	16.24
802.11ax HE40	106T 55	5230	Chain0	8.81	12.68
802.11ax HE40	106T 55	5230	Chain1	8.94	13.70
802.11ax HE40	106T 55	5230	MIMO	11.89	16.23
802.11ax HE40	106T 56	5190	Chain0	10.42	14.29
802.11ax HE40	106T 56	5190	Chain1	10.33	15.09
802.11ax HE40	106T 56	5190	MIMO	13.39	17.73
802.11ax HE40	106T 56	5230	Chain0	9.45	13.32
802.11ax HE40	106T 56	5230	Chain1	9.18	13.94
802.11ax HE40	106T 56	5230	MIMO	12.33	16.67
802.11ax HE40	242T 61	5190	Chain0	8.72	12.59

802.11ax HE40	242T 61	5190	Chain1	8.87	13.63
802.11ax HE40	242T 61	5190	MIMO	11.81	16.15
802.11ax HE40	242T 61	5230	Chain0	8.35	12.22
802.11ax HE40	242T 61	5230	Chain1	8.32	13.08
802.11ax HE40	242T 61	5230	MIMO	11.35	15.69
802.11ax HE40	242T 62	5190	Chain0	9.15	13.02
802.11ax HE40	242T 62	5190	Chain1	8.56	13.32
802.11ax HE40	242T 62	5190	MIMO	11.88	16.22
802.11ax HE40	242T 62	5230	Chain0	8.89	12.76
802.11ax HE40	242T 62	5230	Chain1	8.43	13.19
802.11ax HE40	242T 62	5230	MIMO	11.68	16.02
802.11ax HE40	484T 65	5190	Chain0	11.54	15.41
802.11ax HE40	484T 65	5190	Chain1	10.42	15.18
802.11ax HE40	484T 65	5190	MIMO	14.03	18.37
802.11ax HE40	484T 65	5230	Chain0	10.27	14.14
802.11ax HE40	484T 65	5230	Chain1	10.46	15.22
802.11ax HE40	484T 65	5230	MIMO	13.38	17.72
802.11ax HE80	26T 0	5210	Chain0	7.80	11.67
802.11ax HE80	26T 0	5210	Chain1	6.93	11.69
802.11ax HE80	26T 0	5210	MIMO	10.40	14.74
802.11ax HE80	26T 18	5210	Chain0	7.01	10.88
802.11ax HE80	26T 18	5210	Chain1	7.63	12.39
802.11ax HE80	26T 18	5210	MIMO	10.34	14.68
802.11ax HE80	26T 36	5210	Chain0	6.93	10.80
802.11ax HE80	26T 36	5210	Chain1	6.58	11.34
802.11ax HE80	26T 36	5210	MIMO	9.77	14.11
802.11ax HE80	52T 37	5210	Chain0	7.43	11.30
802.11ax HE80	52T 37	5210	Chain1	7.66	12.42
802.11ax HE80	52T 37	5210	MIMO	10.56	14.90
802.11ax HE80	52T 45	5210	Chain0	9.70	13.57
802.11ax HE80	52T 45	5210	Chain1	9.81	14.57
802.11ax HE80	52T 45	5210	MIMO	12.77	17.11
802.11ax HE80	52T 52	5210	Chain0	8.00	11.87
802.11ax HE80	52T 52	5210	Chain1	8.26	13.02
802.11ax HE80	52T 52	5210	MIMO	11.14	15.48
802.11ax HE80	106T 53	5210	Chain0	8.34	12.21
802.11ax HE80	106T 53	5210	Chain1	8.24	13.00
802.11ax HE80	106T 53	5210	MIMO	11.30	15.64
802.11ax HE80	106T 57	5210	Chain0	8.10	11.97
802.11ax HE80	106T 57	5210	Chain1	8.34	13.10
802.11ax HE80	106T 57	5210	MIMO	11.23	15.57
802.11ax HE80	106T 60	5210	Chain0	7.84	11.71
802.11ax HE80	106T 60	5210	Chain1	8.36	13.12
802.11ax HE80	106T 60	5210	MIMO	11.12	15.46
802.11ax HE80	242T 61	5210	Chain0	8.14	12.01
802.11ax HE80	242T 61	5210	Chain1	8.74	13.50

802.11ax HE80	242T 61	5210	MIMO	11.46	15.80
802.11ax HE80	242T 63	5210	Chain0	8.25	12.12
802.11ax HE80	242T 63	5210	Chain1	8.76	13.52
802.11ax HE80	242T 63	5210	MIMO	11.52	15.86
802.11ax HE80	242T 64	5210	Chain0	8.14	12.01
802.11ax HE80	242T 64	5210	Chain1	8.79	13.55
802.11ax HE80	242T 64	5210	MIMO	11.49	15.83
802.11ax HE80	484T 65	5210	Chain0	8.07	11.94
802.11ax HE80	484T 65	5210	Chain1	8.12	12.88
802.11ax HE80	484T 65	5210	MIMO	11.11	15.45
802.11ax HE80	484T 66	5210	Chain0	7.70	11.57
802.11ax HE80	484T 66	5210	Chain1	8.04	12.80
802.11ax HE80	484T 66	5210	MIMO	10.88	15.22
802.11ax HE80	996T 67	5210	Chain0	10.64	14.51
802.11ax HE80	996T 67	5210	Chain1	10.73	15.49
802.11ax HE80	996T 67	5210	MIMO	13.70	18.04

Emission Bandwidth

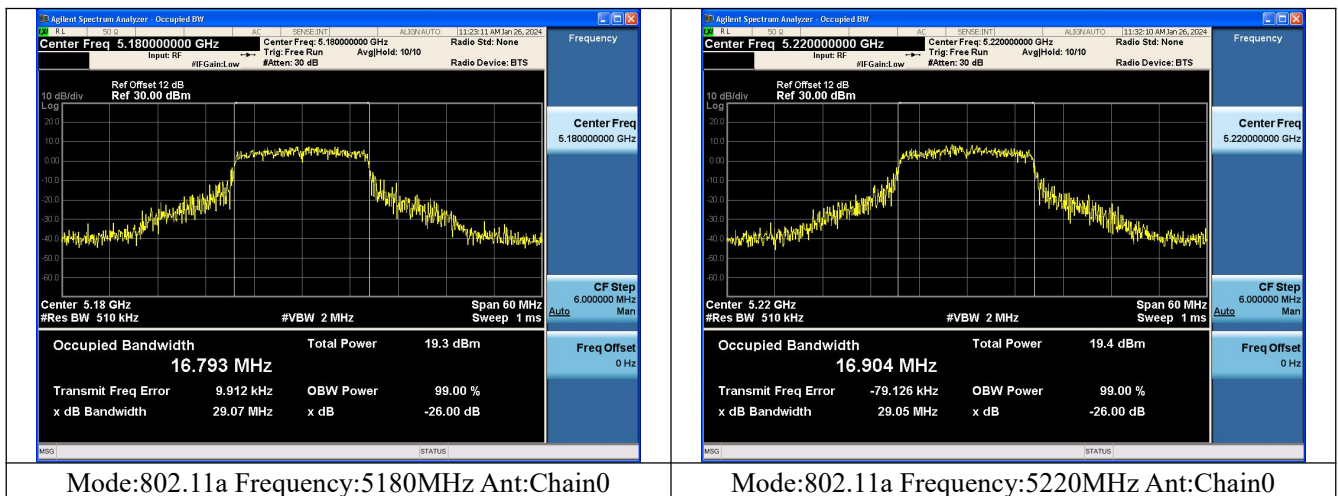
Offset 12dB = Attenuator + Temporary antenna connector loss + Cable loss

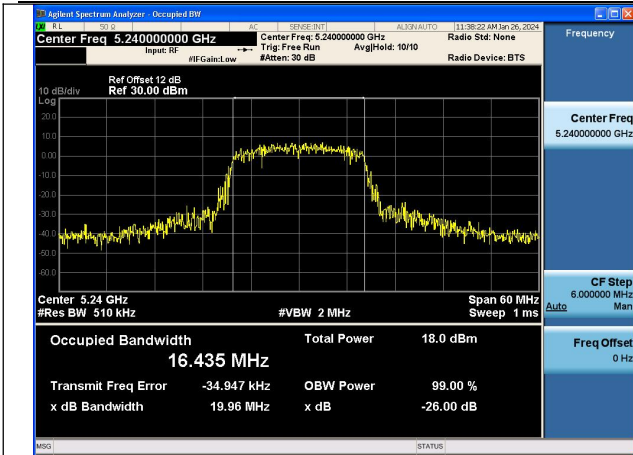
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	29.07	29.05	19.96
802.11a	Chain1	24.30	26.87	19.44
802.11n HT20	Chain0	25.72	26.44	21.06
802.11n HT20	Chain1	26.43	26.89	19.98
802.11ac VHT20	Chain0	29.19	26.24	19.62
802.11ac VHT20	Chain1	29.62	26.66	20.09
802.11ax HE20	Chain0	22.65	21.70	19.99
802.11ax HE20	Chain1	21.42	20.23	20.09

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	40.93	---	39.47
802.11n HT40	Chain1	39.47	---	39.57
802.11ac VHT40	Chain0	40.24	---	39.95
802.11ac VHT40	Chain1	39.18	---	40.10
802.11ax HE40	Chain0	40.05	---	39.92
802.11ax HE40	Chain1	40.23	---	40.08

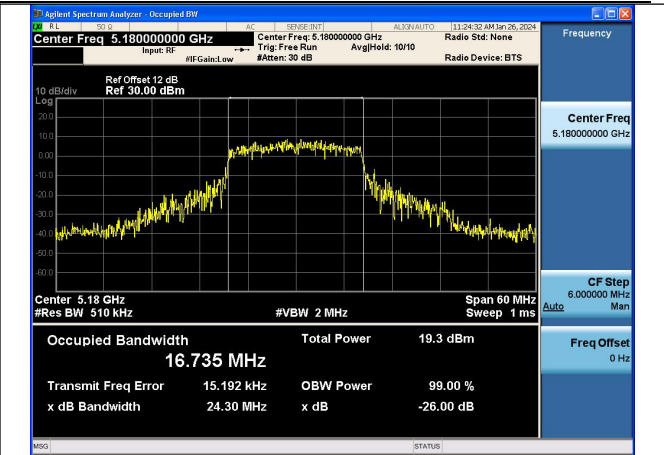
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	83.99	---	---
802.11ac VHT80	Chain1	82.86	---	---
802.11ax HE80	Chain0	82.20	---	---
802.11ax HE80	Chain1	82.26	---	---

Test Mode: 802.11a

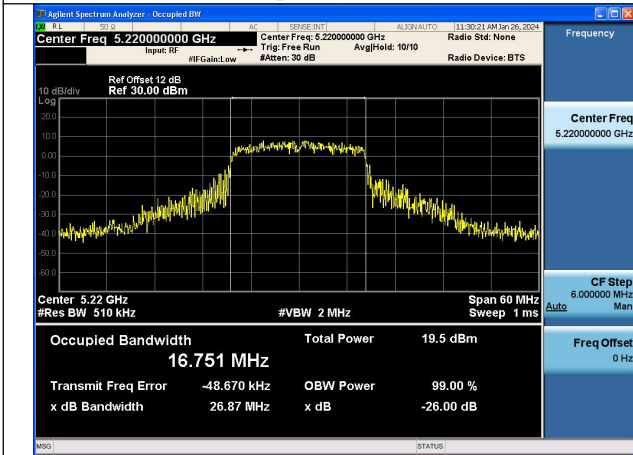




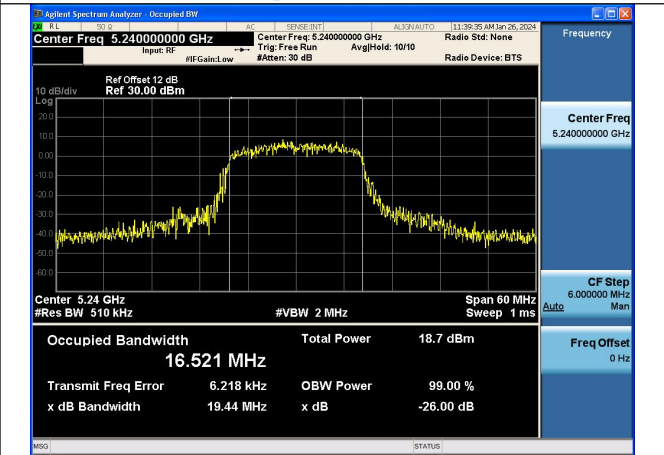
Mode:802.11a Frequency:5240MHz Ant:Chain0



Mode:802.11a Frequency:5180MHz Ant:Chain1

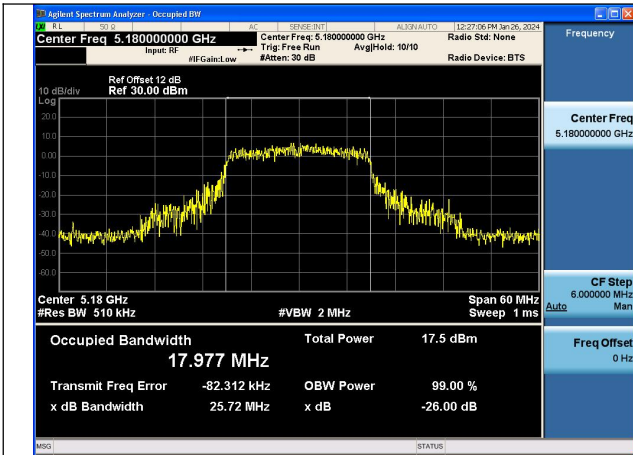


Mode:802.11a Frequency:5220MHz Ant:Chain1

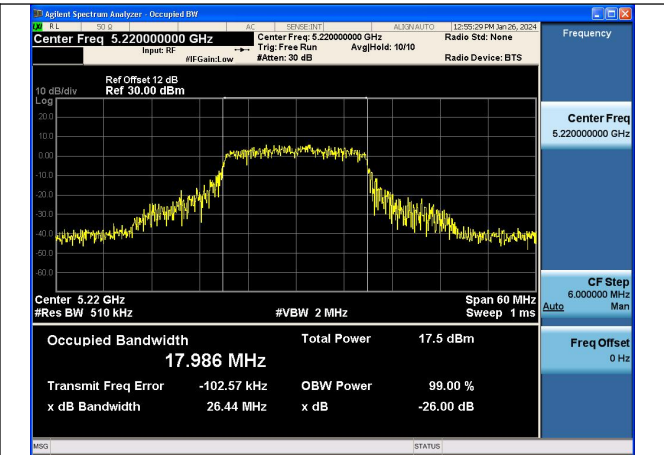


Mode:802.11a Frequency:5240MHz Ant:Chain1

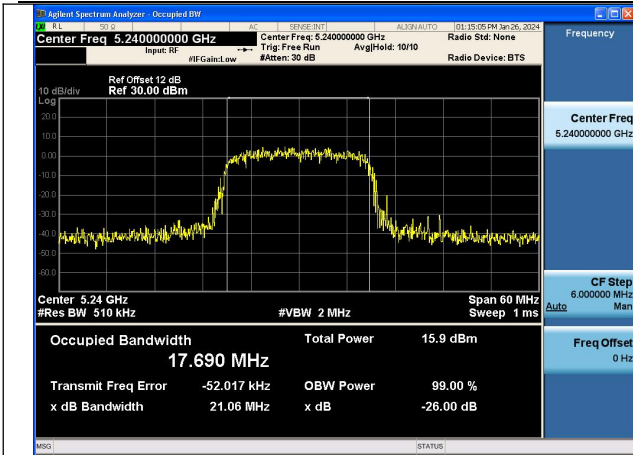
Test Mode: 802.11n HT20



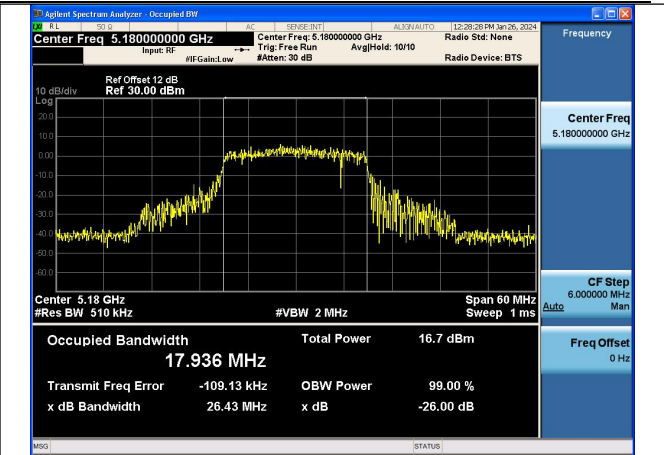
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0



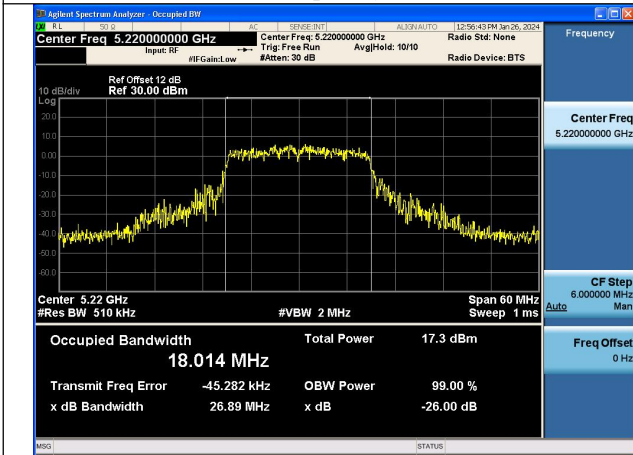
Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



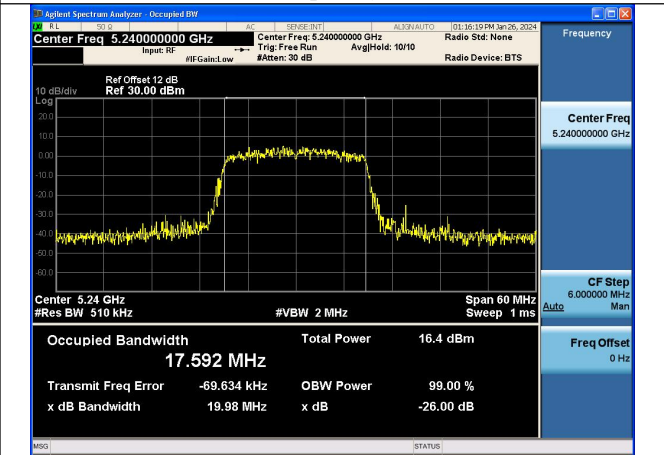
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1

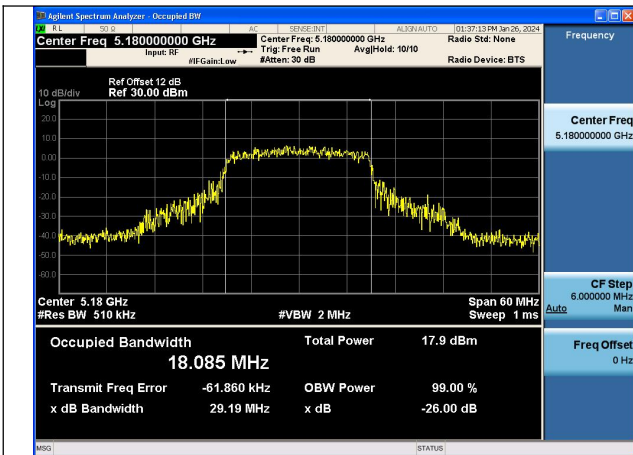


Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1

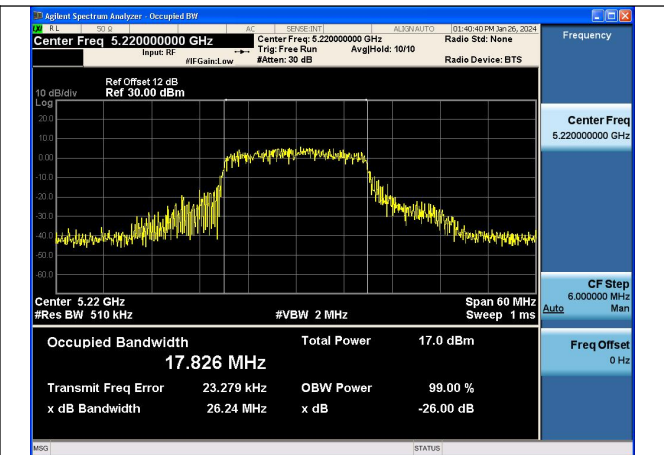


Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5180MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5220MHz
Ant:Chain0