



# CSE\_Pine R2\_Antenna set 3 (Bandedge)\_P to M

# Appendix E.13

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dB)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5825MHz	Pass	4.9G	5.31G	AV	5.00875G	3.00	-60.92	-60.83			-57.86	-54.86	-41.20	-13.66
5825MHz	Pass	5.31G	5.47G	AV	5.45976G	3.00	-59.72	-59.60			-56.65	-53.65	-41.20	-12.45
5825MHz	Pass	4.9G	5.31G	PK	5.26572G	3.00	-50.19	-50.92			-47.53	-44.53	-27.00	-17.53
5825MHz	Pass	5.31G	5.47G	PK	5.46936G	3.00	-49.65	-50.03			-46.83	-43.83	-27.00	-16.83
5825MHz	Pass	5.47G	5.85G	PK	5.52738G	3.00	-49.07	-49.21			-46.13	-43.13	-27.00	-16.13
5825MHz	Pass	5.85G	6.01G	PK	5.9748G	3.00	-47.65	-48.14			-44.88	-41.88	-27.00	-14.88
5825MHz	Pass	6.01G	6.5G	PK	6.29206G	3.00	-47.88	-50.51			-45.99	-42.99	-27.00	-15.99
802.11ax HEW40_Nss1,(MCSO)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.9G	5.31G	AV	5.14979G	3.00	-52.78	-49.64			-47.92	-44.92	-41.20	-3.72
5190MHz	Pass	5.31G	5.47G	AV	5.3628G	3.00	-59.17	-60.46			-56.76	-53.76	-41.20	-12.56
5190MHz	Pass	4.9G	5.31G	PK	5.14979G	3.00	-39.97	-34.10			-33.10	-30.10	-21.20	-8.90
5190MHz	Pass	5.31G	5.47G	PK	5.46936G	3.00	-50.82	-49.33			-47.00	-44.00	-27.00	-17.00
5190MHz	Pass	5.47G	5.85G	PK	5.80782G	3.00	-48.79	-47.42			-45.04	-42.04	-27.00	-15.04
5190MHz	Pass	5.85G	6.01G	PK	5.88584G	3.00	-46.74	-49.39			-44.86	-41.86	-27.00	-14.86
5190MHz	Pass	6.01G	6.5G	PK	6.07811G	3.00	-47.65	-51.45			-46.14	-43.14	-27.00	-16.14
5230MHz	Pass	4.9G	5.31G	AV	5.15G	3.00	-54.90	-53.10			-50.90	-47.90	-41.20	-6.70
5230MHz	Pass	5.31G	5.47G	AV	5.35224G	3.00	-59.56	-59.05			-56.29	-53.29	-41.20	-12.09
5230MHz	Pass	4.9G	5.31G	PK	5.14759G	3.00	-41.16	-43.03			-38.98	-35.98	-21.20	-14.78
5230MHz	Pass	5.31G	5.47G	PK	5.46264G	3.00	-49.39	-49.86			-46.61	-43.61	-27.00	-16.61
5230MHz	Pass	5.47G	5.85G	PK	5.75196G	3.00	-48.73	-47.60			-45.12	-42.12	-27.00	-15.12
5230MHz	Pass	5.85G	6.01G	PK	5.85352G	3.00	-48.24	-48.75			-45.48	-42.48	-27.00	-15.48
5230MHz	Pass	6.01G	6.5G	PK	6.45229G	3.00	-49.81	-48.79			-46.26	-43.26	-27.00	-16.26
5755MHz	Pass	4.9G	5.31G	AV	4.96258G	3.00	-61.91	-60.31			-58.03	-55.03	-41.20	-13.83
5755MHz	Pass	5.31G	5.47G	AV	5.45304G	3.00	-60.31	-59.74			-57.01	-54.01	-41.20	-12.81
5755MHz	Pass	4.9G	5.31G	PK	5.15343G	3.00	-49.84	-51.66			-47.65	-44.65	-27.00	-17.65
5755MHz	Pass	5.31G	5.47G	PK	5.46968G	3.00	-50.85	-49.00			-46.82	-43.82	-27.00	-16.82
5755MHz	Pass	5.47G	5.85G	PK	5.64404G	3.00	-48.78	-47.27			-44.95	-41.95	-27.00	-14.95
5755MHz	Pass	5.85G	6.01G	PK	5.93064G	3.00	-49.56	-47.41			-45.34	-42.34	-27.00	-15.34
5755MHz	Pass	6.01G	6.5G	PK	6.42724G	3.00	-49.69	-49.37			-46.52	-43.52	-27.00	-16.52
5795MHz	Pass	4.9G	5.31G	AV	4.99958G	3.00	-60.70	-61.14			-57.90	-54.90	-41.20	-13.70
5795MHz	Pass	5.31G	5.47G	AV	5.44728G	3.00	-59.49	-60.08			-56.76	-53.76	-41.20	-12.56
5795MHz	Pass	4.9G	5.31G	PK	5.275G	3.00	-51.16	-50.64			-47.88	-44.88	-27.00	-17.88
5795MHz	Pass	5.31G	5.47G	PK	5.46328G	3.00	-49.76	-49.89			-46.81	-43.81	-27.00	-16.81
5795MHz	Pass	5.47G	5.85G	PK	5.62846G	3.00	-48.53	-49.12			-45.80	-42.80	-27.00	-15.80
5795MHz	Pass	5.85G	6.01G	PK	5.93416G	3.00	-48.68	-47.16			-44.84	-41.84	-27.00	-14.84
5795MHz	Pass	6.01G	6.5G	PK	6.40696G	3.00	-48.24	-49.85			-45.96	-42.96	-27.00	-15.96
802.11ax HEW80_Nss1,(MCSO)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.9G	5.31G	AV	5.14887G	3.00	-54.49	-48.74			-47.72	-44.72	-41.20	-3.52
5210MHz	Pass	5.31G	5.47G	AV	5.35G	3.00	-60.33	-59.17			-56.70	-53.70	-41.20	-12.50
5210MHz	Pass	4.9G	5.31G	PK	5.14913G	3.00	-40.34	-40.31			-37.31	-34.31	-21.20	-13.11
5210MHz	Pass	5.31G	5.47G	PK	5.46968G	3.00	-49.63	-49.85			-46.73	-43.73	-27.00	-16.73
5210MHz	Pass	5.47G	5.85G	PK	5.80782G	3.00	-48.18	-47.93			-45.04	-42.04	-27.00	-15.04
5210MHz	Pass	5.85G	6.01G	PK	5.85064G	3.00	-49.34	-47.45			-45.28	-42.28	-27.00	-15.28
5210MHz	Pass	6.01G	6.5G	PK	6.40427G	3.00	-48.99	-49.52			-46.24	-43.24	-27.00	-16.24
5775MHz	Pass	4.9G	5.31G	AV	5.11817G	3.00	-60.62	-61.19			-57.89	-54.89	-41.20	-13.69
5775MHz	Pass	5.31G	5.47G	AV	5.45944G	3.00	-60.48	-59.38			-56.88	-53.88	-41.20	-12.68
5775MHz	Pass	4.9G	5.31G	PK	5.16015G	3.00	-53.45	-49.75			-48.21	-45.21	-27.00	-18.21
5775MHz	Pass	5.31G	5.47G	PK	5.46104G	3.00	-48.80	-51.06			-46.77	-43.77	-27.00	-16.77
5775MHz	Pass	5.47G	5.85G	PK	5.64746G	3.00	-42.92	-35.58			-34.84	-31.84	-27.00	-4.84
5775MHz	Pass	5.85G	6.01G	PK	5.92168G	3.00	-46.33	-37.49			-36.96	-33.96	-24.54	-9.42
5775MHz	Pass	6.01G	6.5G	PK	6.10034G	3.00	-48.13	-50.36			-46.09	-43.09	-27.00	-16.09
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.9G	5.31G	AV	5.14892G	3.00	-58.97	-58.42	-57.13	-55.70	-51.35	-48.35	-41.20	-7.15
5180MHz	Pass	5.31G	5.47G	AV	5.45144G	3.00	-60.07	-60.56	-59.94	-59.67	-54.03	-51.03	-41.20	-9.83
5180MHz	Pass	4.9G	5.31G	PK	5.14892G	3.00	-50.44	-49.74	-47.77	-44.70	-41.53	-38.53	-21.20	-17.33
5180MHz	Pass	5.31G	5.47G	PK	5.46328G	3.00	-50.96	-48.94	-50.78	-49.77	-44.01	-41.01	-27.00	-14.01
5180MHz	Pass	5.47G	5.85G	PK	5.78958G	3.00	-47.36	-49.40	-49.01	-48.02	-42.35	-39.35	-27.00	-12.35
5180MHz	Pass	5.85G	6.01G	PK	5.86568G	3.00	-49.27	-48.62	-49.31	-48.45	-42.88	-39.88	-27.00	-12.88
5180MHz	Pass	6.01G	6.5G	PK	6.46441G	3.00	-48.74	-51.66	-49.61	-50.17	-43.90	-40.90	-27.00	-13.90
5200MHz	Pass	4.9G	5.31G	AV	5.14872G	3.00	-60.43	-61.14	-59.99	-60.49	-54.47	-51.47	-41.20	-10.27
5200MHz	Pass	5.31G	5.47G	AV	5.45816G	3.00	-60.50	-59.16	-60.29	-59.96	-53.93	-50.93	-41.20	-9.73
5200MHz	Pass	4.9G	5.31G	PK	5.1499G	3.00	-52.14	-50.29	-50.48	-51.86	-45.10	-42.10	-21.20	-20.90
5200MHz	Pass	5.31G	5.47G	PK	5.47G	3.00	-50.26	-49.67	-50.55	-50.10	-44.11	-41.11	-27.00	-14.11
5200MHz	Pass	5.47G	5.85G	PK	5.79946G	3.00	-47.82	-48.55	-48.90	-49.74	-42.68	-39.68	-27.00	-12.68
5200MHz	Pass	5.85G	6.01G	PK	5.86152G	3.00	-49.70	-48.00	-48.13	-48.80	-42.59	-39.59	-27.00	-12.59
5200MHz	Pass	6.01G	6.5G	PK	6.49388G	3.00	-51.43	-50.91	-50.29	-48.14	-43.98	-40.98	-27.00	-13.98
5240MHz	Pass	4.9G	5.31G	AV	5.09516G	3.00	-61.37	-61.45	-61.32	-60.34	-55.07	-52.07	-41.20	-10.87
5240MHz	Pass	5.31G	5.47G	AV	5.43256G	3.00	-60.54	-60.27	-59.72	-59.23	-53.89	-50.89	-41.20	-9.69
5240MHz	Pass	4.9G	5.31G	PK	5.11915G	3.00	-52.17	-50.77	-52.26	-49.75	-45.09	-42.09	-21.20	-20.89
5240MHz	Pass	5.31G	5.47G	PK	5.46904G	3.00	-50.89	-50.42	-50.50	-48.81	-44.06	-41.06	-27.00	-14.06



CSE\_Pine R2\_Antenna set 3 (Bandedge)\_P to M

Appendix E.13

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5240MHz	Pass	5.47G	5.85G	PK	5.8082G	3.00	-48.76	-49.12	-48.89	-47.05	-42.35	-39.35	-27.00	-12.35
5240MHz	Pass	5.85G	6.01G	PK	5.86728G	3.00	-47.96	-50.07	-48.70	-48.84	-42.81	-39.81	-27.00	-12.81
5240MHz	Pass	6.01G	6.5G	PK	6.40457G	3.00	-48.98	-52.49	-49.91	-48.88	-43.83	-40.83	-27.00	-13.83
5745MHz	Pass	4.9G	5.31G	AV	5.07697G	3.00	-62.48	-60.71	-61.25	-61.12	-55.32	-52.32	-41.20	-11.12
5745MHz	Pass	5.31G	5.47G	AV	5.42744G	3.00	-60.39	-59.41	-59.81	-60.13	-53.90	-50.90	-41.20	-9.70
5745MHz	Pass	4.9G	5.31G	PK	5.15312G	3.00	-50.58	-52.99	-50.70	-53.88	-45.79	-42.79	-27.00	-15.79
5745MHz	Pass	5.31G	5.47G	PK	5.46936G	3.00	-50.98	-49.17	-49.47	-50.44	-43.93	-40.93	-27.00	-13.93
5745MHz	Pass	5.47G	5.85G	PK	5.57868G	3.00	-51.07	-47.17	-49.99	-50.78	-43.43	-40.43	-27.00	-13.43
5745MHz	Pass	5.85G	6.01G	PK	5.94728G	3.00	-49.16	-47.95	-48.57	-48.51	-42.51	-39.51	-27.00	-12.51
5745MHz	Pass	6.01G	6.5G	PK	6.08558G	3.00	-50.54	-52.48	-48.06	-49.79	-43.91	-40.91	-27.00	-13.91
5785MHz	Pass	4.9G	5.31G	AV	5.11546G	3.00	-61.05	-62.99	-60.01	-60.67	-55.03	-52.03	-41.20	-10.83
5785MHz	Pass	5.31G	5.47G	AV	5.39288G	3.00	-60.21	-59.55	-59.58	-60.41	-53.90	-50.90	-41.20	-9.70
5785MHz	Pass	4.9G	5.31G	PK	5.2238G	3.00	-53.58	-52.53	-50.48	-50.32	-45.50	-42.50	-27.00	-15.50
5785MHz	Pass	5.31G	5.47G	PK	5.47G	3.00	-50.38	-50.66	-48.48	-50.46	-43.88	-40.88	-27.00	-13.88
5785MHz	Pass	5.47G	5.85G	PK	5.64442G	3.00	-50.49	-49.26	-48.72	-50.28	-43.61	-40.61	-27.00	-13.61
5785MHz	Pass	5.85G	6.01G	PK	5.93672G	3.00	-49.18	-48.05	-48.07	-49.44	-42.62	-39.62	-27.00	-12.62
5785MHz	Pass	6.01G	6.5G	PK	6.05263G	3.00	-50.93	-48.01	-50.42	-51.27	-43.93	-40.93	-27.00	-13.93
5825MHz	Pass	4.9G	5.31G	AV	5.0088G	3.00	-61.51	-61.47	-61.26	-60.78	-55.22	-52.22	-41.20	-11.02
5825MHz	Pass	5.31G	5.47G	AV	5.42968G	3.00	-60.75	-60.46	-59.50	-58.49	-53.69	-50.69	-41.20	-9.49
5825MHz	Pass	4.9G	5.31G	PK	5.15328G	3.00	-52.58	-53.57	-53.15	-48.81	-45.54	-42.54	-27.00	-15.54
5825MHz	Pass	5.31G	5.47G	PK	5.46456G	3.00	-49.32	-50.62	-50.03	-50.63	-44.10	-41.10	-27.00	-14.10
5825MHz	Pass	5.47G	5.85G	PK	5.48748G	3.00	-50.42	-50.69	-49.02	-49.15	-43.74	-40.74	-27.00	-13.74
5825MHz	Pass	5.85G	6.01G	PK	5.9716G	3.00	-48.58	-47.70	-47.75	-48.52	-42.10	-39.10	-27.00	-12.10
5825MHz	Pass	6.01G	6.5G	PK	6.44959G	3.00	-51.68	-51.41	-49.76	-47.85	-43.87	-40.87	-27.00	-13.87
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.9G	5.31G	AV	5.14949G	3.00	-59.60	-57.63	-56.87	-54.86	-50.89	-47.89	-41.20	-6.69
5180MHz	Pass	5.31G	5.47G	AV	5.44344G	3.00	-60.40	-60.17	-59.58	-59.97	-54.00	-51.00	-41.20	-9.80
5180MHz	Pass	4.9G	5.31G	PK	5.14984G	3.00	-50.12	-48.96	-41.54	-48.25	-39.68	-36.68	-21.20	-15.48
5180MHz	Pass	5.31G	5.47G	PK	5.46104G	3.00	-49.19	-49.13	-51.31	-50.85	-43.99	-40.99	-27.00	-13.99
5180MHz	Pass	5.47G	5.85G	PK	5.81466G	3.00	-48.28	-48.17	-50.01	-48.30	-42.61	-39.61	-27.00	-12.61
5180MHz	Pass	5.85G	6.01G	PK	5.87144G	3.00	-49.10	-47.65	-48.73	-49.54	-42.68	-39.68	-27.00	-12.68
5180MHz	Pass	6.01G	6.5G	PK	6.41909G	3.00	-49.11	-49.50	-50.06	-51.95	-44.01	-41.01	-27.00	-14.01
5200MHz	Pass	4.9G	5.31G	AV	5.14902G	3.00	-61.96	-60.22	-59.98	-57.70	-53.68	-50.68	-41.20	-9.48
5200MHz	Pass	5.31G	5.47G	AV	5.43704G	3.00	-60.36	-60.02	-59.81	-59.73	-53.95	-50.95	-41.20	-9.75
5200MHz	Pass	4.9G	5.31G	PK	5.14908G	3.00	-51.20	-52.59	-51.90	-46.19	-43.61	-40.61	-21.20	-19.41
5200MHz	Pass	5.31G	5.47G	PK	5.46072G	3.00	-50.87	-48.96	-49.80	-50.18	-43.88	-40.88	-27.00	-13.88
5200MHz	Pass	5.47G	5.85G	PK	5.82112G	3.00	-50.36	-49.18	-48.83	-46.44	-42.44	-39.44	-27.00	-12.44
5200MHz	Pass	5.85G	6.01G	PK	5.88328G	3.00	-48.80	-48.85	-49.85	-47.06	-42.50	-39.50	-27.00	-12.50
5200MHz	Pass	6.01G	6.5G	PK	6.12668G	3.00	-50.27	-50.13	-51.94	-48.74	-44.10	-41.10	-27.00	-14.10
5240MHz	Pass	4.9G	5.31G	AV	5.1295G	3.00	-61.58	-59.63	-61.33	-61.45	-54.90	-51.90	-41.20	-10.70
5240MHz	Pass	5.31G	5.47G	AV	5.40248G	3.00	-60.34	-59.69	-60.14	-59.27	-53.82	-50.82	-41.20	-9.62
5240MHz	Pass	4.9G	5.31G	PK	5.07774G	3.00	-51.93	-51.90	-51.40	-50.62	-45.41	-42.41	-21.20	-21.21
5240MHz	Pass	5.31G	5.47G	PK	5.46136G	3.00	-50.10	-50.91	-49.68	-50.04	-44.14	-41.14	-27.00	-14.14
5240MHz	Pass	5.47G	5.85G	PK	5.8462G	3.00	-47.51	-46.83	-49.49	-49.76	-42.20	-39.20	-27.00	-12.20
5240MHz	Pass	5.85G	6.01G	PK	5.86248G	3.00	-49.09	-49.49	-49.78	-47.53	-42.86	-39.86	-27.00	-12.86
5240MHz	Pass	6.01G	6.5G	PK	6.41088G	3.00	-49.29	-52.03	-48.70	-51.51	-44.13	-41.13	-27.00	-14.13
5745MHz	Pass	4.9G	5.31G	AV	5.10351G	3.00	-61.51	-60.53	-62.02	-61.42	-55.32	-52.32	-41.20	-11.12
5745MHz	Pass	5.31G	5.47G	AV	5.43576G	3.00	-60.58	-60.32	-59.29	-59.86	-53.96	-50.96	-41.20	-9.76
5745MHz	Pass	4.9G	5.31G	PK	5.16132G	3.00	-51.88	-49.36	-52.78	-53.23	-45.51	-42.51	-27.00	-15.51
5745MHz	Pass	5.31G	5.47G	PK	5.46936G	3.00	-51.38	-48.83	-49.90	-50.23	-43.97	-40.97	-27.00	-13.97
5745MHz	Pass	5.47G	5.85G	PK	5.56386G	3.00	-49.38	-48.34	-50.05	-49.74	-43.31	-40.31	-27.00	-13.31
5745MHz	Pass	5.85G	6.01G	PK	5.92968G	3.00	-48.93	-47.93	-48.62	-50.19	-42.82	-39.82	-27.00	-12.82
5745MHz	Pass	6.01G	6.5G	PK	6.44426G	3.00	-48.60	-50.15	-51.37	-48.67	-43.53	-40.53	-27.00	-13.53
5785MHz	Pass	4.9G	5.31G	AV	5.14733G	3.00	-61.96	-61.50	-61.13	-61.00	-55.36	-52.36	-41.20	-11.16
5785MHz	Pass	5.31G	5.47G	AV	5.45432G	3.00	-60.72	-60.46	-59.09	-60.06	-54.02	-51.02	-41.20	-9.82
5785MHz	Pass	4.9G	5.31G	PK	5.16363G	3.00	-51.61	-51.59	-53.11	-51.81	-45.97	-42.97	-27.00	-15.97
5785MHz	Pass	5.31G	5.47G	PK	5.4636G	3.00	-50.66	-50.34	-49.71	-50.16	-44.18	-41.18	-27.00	-14.18
5785MHz	Pass	5.47G	5.85G	PK	5.53498G	3.00	-50.52	-49.57	-48.43	-50.69	-43.69	-40.69	-27.00	-13.69
5785MHz	Pass	5.85G	6.01G	PK	5.97288G	3.00	-49.87	-48.04	-48.50	-48.04	-42.53	-39.53	-27.00	-12.53
5785MHz	Pass	6.01G	6.5G	PK	6.04032G	3.00	-49.92	-49.28	-50.90	-48.80	-43.64	-40.64	-27.00	-13.64
5825MHz	Pass	4.9G	5.31G	AV	5.0884G	3.00	-61.83	-60.52	-61.54	-61.84	-55.38	-52.38	-41.20	-11.18
5825MHz	Pass	5.31G	5.47G	AV	5.44632G	3.00	-60.48	-60.41	-59.56	-59.47	-53.93	-50.93	-41.20	-9.73
5825MHz	Pass	4.9G	5.31G	PK	5.25147G	3.00	-50.02	-53.96	-51.46	-52.08	-45.64	-42.64	-27.00	-15.64
5825MHz	Pass	5.31G	5.47G	PK	5.46328G	3.00	-50.09	-49.27	-49.39	-49.83	-43.61	-40.61	-27.00	-13.61
5825MHz	Pass	5.47G	5.85G	PK	5.641G	3.00	-51.07	-47.71	-50.24	-49.74	-43.48	-40.48	-27.00	-13.48
5825MHz	Pass	5.85G	6.01G	PK	5.98984G	3.00	-48.90	-48.95	-48.19	-48.35	-42.56	-39.56	-27.00	-12.56
5825MHz	Pass	6.01G	6.5G	PK	6.37095G	3.00	-50.29	-48.36	-51.69	-49.65	-43.81	-40.81	-27.00	-13.81
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.9G	5.31G	AV	5.14887G	3.00	-60.02	-57.12	-55.18	-55.13	-50.44	-47.44	-41.20	-6.24
5190MHz	Pass	5.31G	5.47G	AV	5.44632G	3.00	-60.05	-60.73	-59.77	-59.58	-53.99	-50.99	-41.20	-9.79

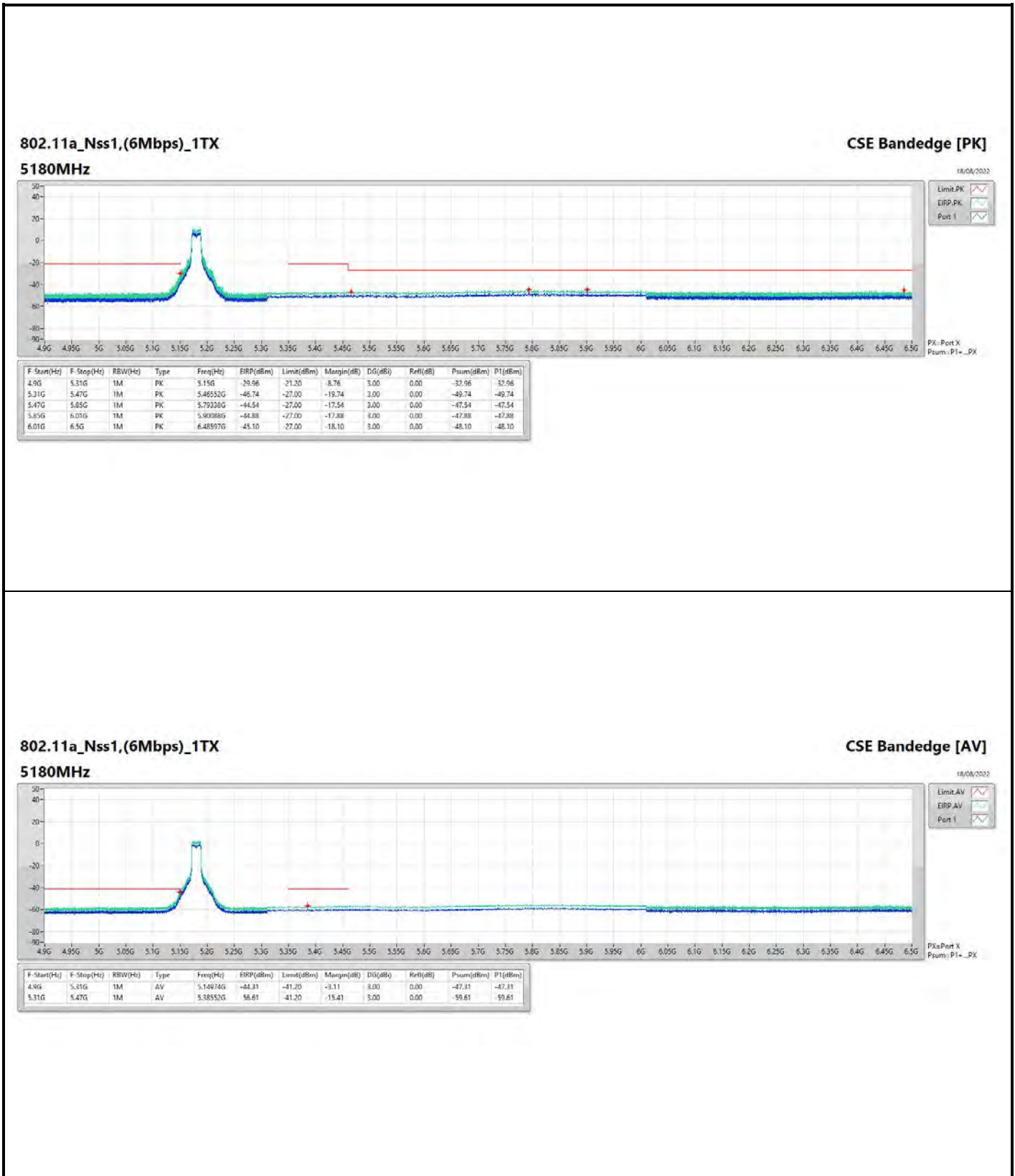


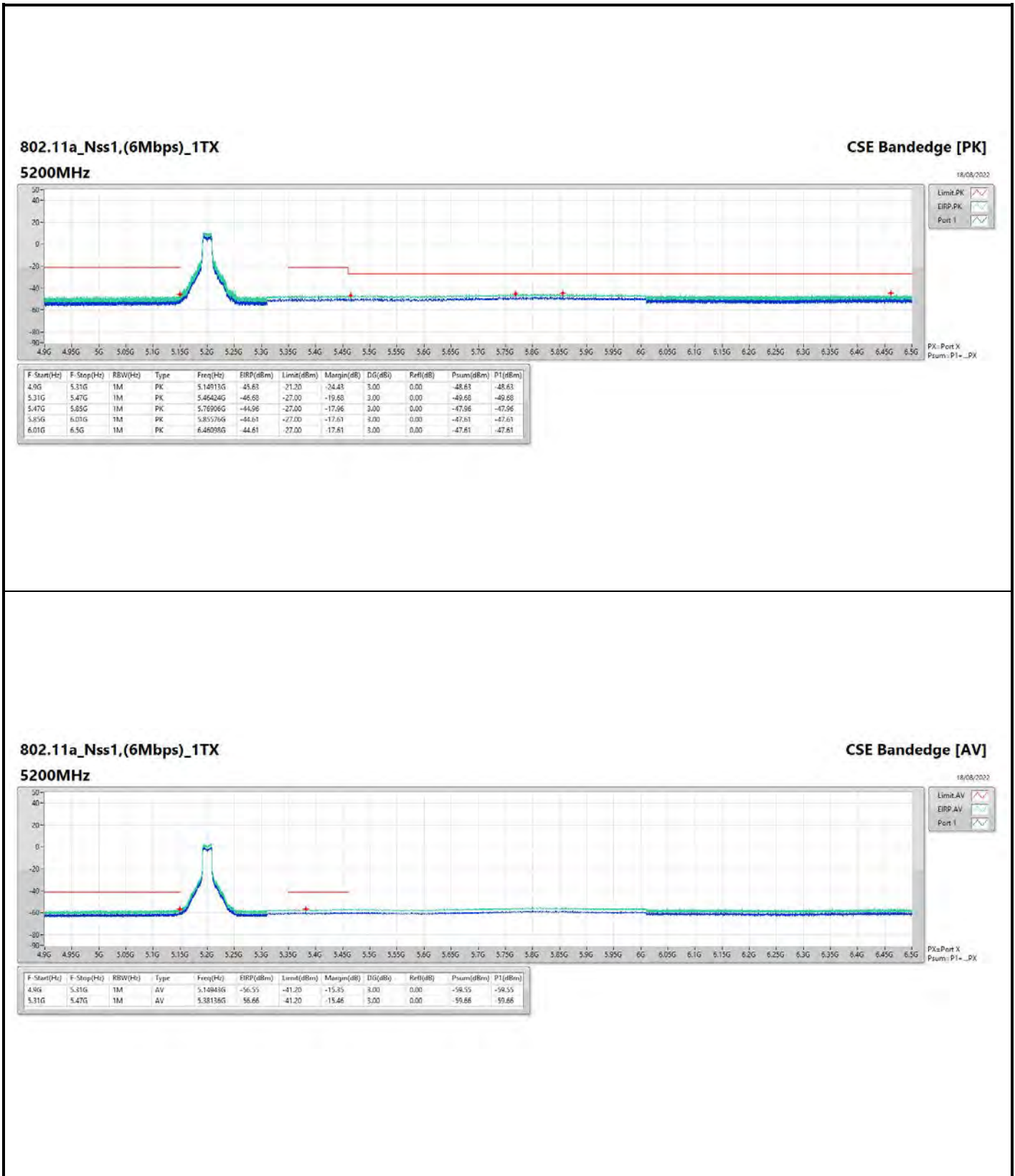
CSE\_Pine R2\_Antenna set 3 (Bandedge)\_P to M

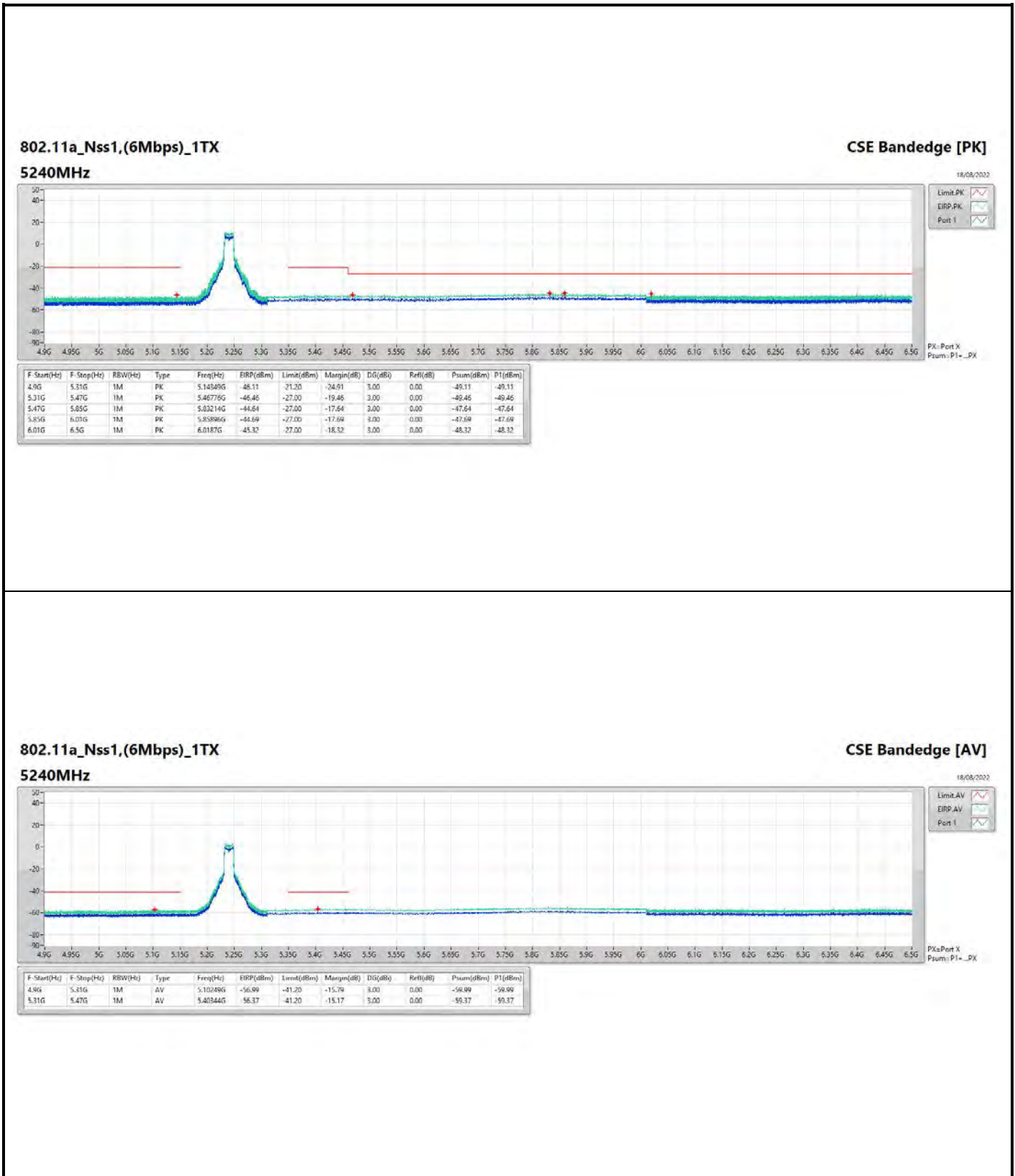
Appendix E.13

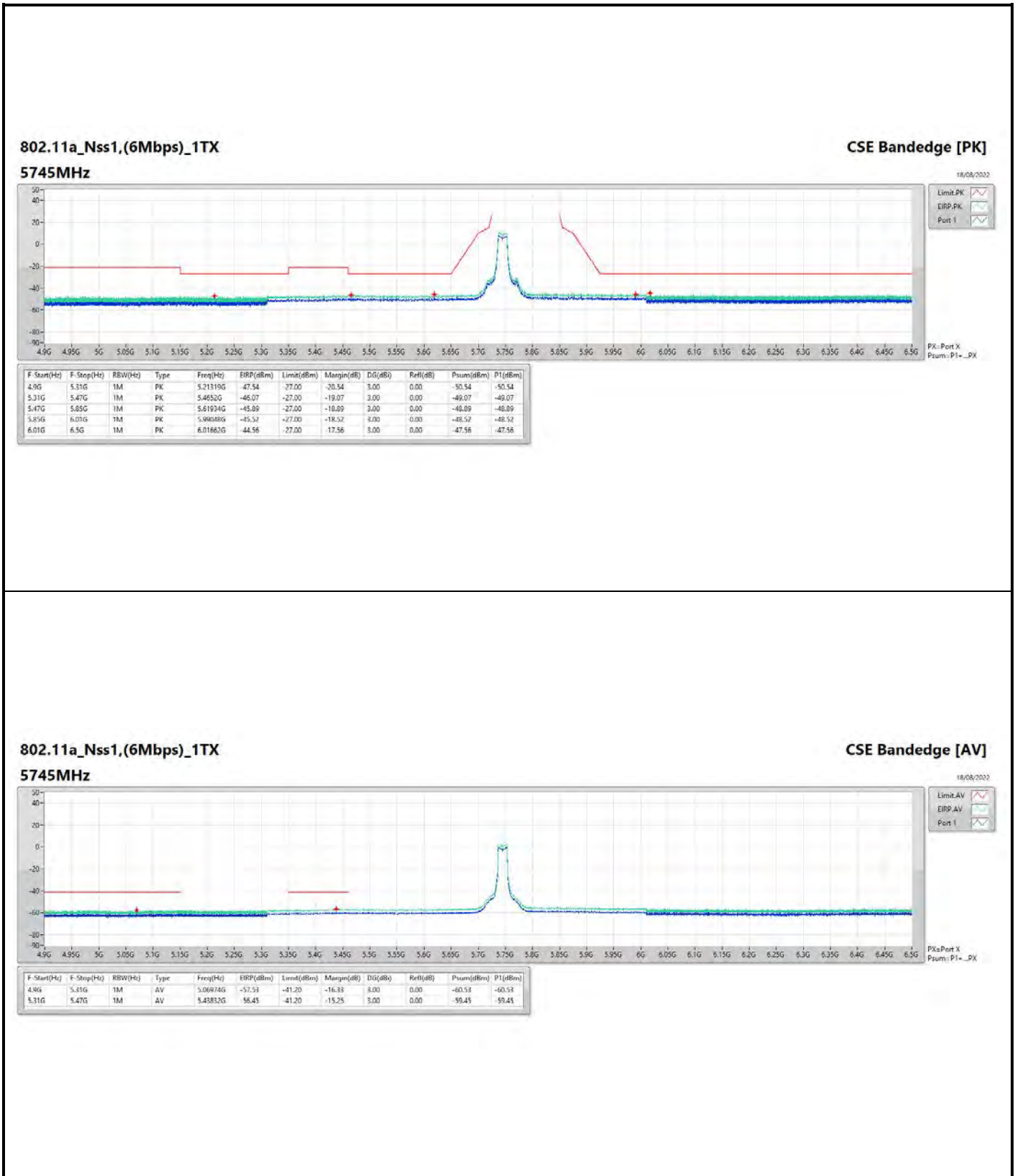
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5190MHz	Pass	4.9G	5.31G	PK	5.14949G	3.00	-50.16	-46.31	-44.41	-48.24	-40.74	-37.74	-21.20	-16.54
5190MHz	Pass	5.31G	5.47G	PK	5.46072G	3.00	-49.88	-50.73	-49.59	-50.41	-44.11	-41.11	-27.00	-14.11
5190MHz	Pass	5.47G	5.85G	PK	5.81086G	3.00	-48.68	-47.69	-50.35	-47.34	-42.35	-39.35	-27.00	-12.35
5190MHz	Pass	5.85G	6.01G	PK	5.85448G	3.00	-48.03	-49.44	-49.82	-48.29	-42.81	-39.81	-27.00	-12.81
5190MHz	Pass	6.01G	6.5G	PK	6.49418G	3.00	-50.51	-51.02	-47.49	-50.46	-43.60	-40.60	-27.00	-13.60
5230MHz	Pass	4.9G	5.31G	AV	5.14754G	3.00	-60.12	-59.19	-58.11	-56.95	-52.41	-49.41	-41.20	-8.21
5230MHz	Pass	5.31G	5.47G	AV	5.40792G	3.00	-59.86	-59.13	-59.68	-59.03	-53.39	-50.39	-41.20	-9.19
5230MHz	Pass	4.9G	5.31G	PK	5.14282G	3.00	-50.58	-50.47	-43.45	-47.24	-40.87	-37.87	-21.20	-16.67
5230MHz	Pass	5.31G	5.47G	PK	5.46488G	3.00	-50.99	-51.24	-49.41	-48.95	-44.02	-41.02	-27.00	-14.02
5230MHz	Pass	5.47G	5.85G	PK	5.83442G	3.00	-50.31	-48.50	-46.92	-47.89	-42.22	-39.22	-27.00	-12.22
5230MHz	Pass	5.85G	6.01G	PK	5.88008G	3.00	-49.38	-47.37	-48.77	-50.11	-42.77	-39.77	-27.00	-12.77
5230MHz	Pass	6.01G	6.5G	PK	6.47268G	3.00	-50.64	-51.38	-47.54	-50.83	-43.79	-40.79	-27.00	-13.79
5755MHz	Pass	4.9G	5.31G	AV	5.09603G	3.00	-61.58	-62.57	-60.76	-60.47	-55.25	-52.25	-41.20	-11.05
5755MHz	Pass	5.31G	5.47G	AV	5.44664G	3.00	-60.84	-59.15	-60.07	-60.20	-54.00	-51.00	-41.20	-9.80
5755MHz	Pass	4.9G	5.31G	PK	5.15256G	3.00	-52.54	-52.48	-49.92	-52.04	-45.58	-42.58	-27.00	-15.58
5755MHz	Pass	5.31G	5.47G	PK	5.46648G	3.00	-50.58	-50.67	-48.37	-50.88	-43.97	-40.97	-27.00	-13.97
5755MHz	Pass	5.47G	5.85G	PK	5.64708G	3.00	-49.48	-48.06	-46.63	-45.34	-41.09	-38.09	-27.00	-11.09
5755MHz	Pass	5.85G	6.01G	PK	5.92712G	3.00	-48.51	-47.24	-47.65	-48.54	-41.93	-38.93	-27.00	-11.93
5755MHz	Pass	6.01G	6.5G	PK	6.13624G	3.00	-51.83	-47.94	-52.15	-49.48	-43.98	-40.98	-27.00	-13.98
5795MHz	Pass	4.9G	5.31G	AV	5.12237G	3.00	-61.03	-60.88	-61.63	-60.41	-54.95	-51.95	-41.20	-10.75
5795MHz	Pass	5.31G	5.47G	AV	5.44344G	3.00	-59.83	-60.01	-60.42	-59.79	-53.98	-50.98	-41.20	-9.78
5795MHz	Pass	4.9G	5.31G	PK	5.15261G	3.00	-51.66	-51.86	-51.20	-51.73	-45.58	-42.58	-27.00	-15.58
5795MHz	Pass	5.31G	5.47G	PK	5.46072G	3.00	-50.39	-50.38	-50.58	-48.88	-43.98	-40.98	-27.00	-13.98
5795MHz	Pass	5.47G	5.85G	PK	5.6486G	3.00	-50.23	-49.58	-49.58	-48.17	-43.30	-40.30	-27.00	-13.30
5795MHz	Pass	5.85G	6.01G	PK	5.93256G	3.00	-48.81	-47.01	-48.20	-48.82	-42.12	-39.12	-27.00	-12.12
5795MHz	Pass	6.01G	6.5G	PK	6.40855G	3.00	-50.61	-49.56	-51.17	-49.41	-44.11	-41.11	-27.00	-14.11
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.9G	5.31G	AV	5.14995G	3.00	-58.70	-56.42	-55.34	-55.32	-50.23	-47.23	-41.20	-6.03
5210MHz	Pass	5.31G	5.47G	AV	5.45848G	3.00	-60.16	-60.17	-59.56	-60.50	-54.06	-51.06	-41.20	-9.86
5210MHz	Pass	4.9G	5.31G	PK	5.14897G	3.00	-49.04	-46.43	-47.64	-43.07	-39.92	-36.92	-21.20	-15.72
5210MHz	Pass	5.31G	5.47G	PK	5.46968G	3.00	-50.18	-49.60	-49.62	-49.94	-43.81	-40.81	-27.00	-13.81
5210MHz	Pass	5.47G	5.85G	PK	5.76032G	3.00	-50.02	-47.77	-48.87	-47.74	-42.48	-39.48	-27.00	-12.48
5210MHz	Pass	5.85G	6.01G	PK	5.87912G	3.00	-47.77	-50.25	-48.10	-48.69	-42.58	-39.58	-27.00	-12.58
5210MHz	Pass	6.01G	6.5G	PK	6.43826G	3.00	-49.20	-51.80	-52.23	-48.97	-44.28	-41.28	-27.00	-14.28
5775MHz	Pass	4.9G	5.31G	AV	5.14867G	3.00	-61.34	-60.95	-61.66	-62.00	-55.45	-52.45	-41.20	-11.25
5775MHz	Pass	5.31G	5.47G	AV	5.44664G	3.00	-59.85	-60.13	-59.71	-60.07	-53.92	-50.92	-41.20	-9.72
5775MHz	Pass	4.9G	5.31G	PK	5.17967G	3.00	-54.16	-49.99	-52.10	-51.74	-45.73	-42.73	-27.00	-15.73
5775MHz	Pass	5.31G	5.47G	PK	5.4652G	3.00	-49.93	-49.58	-50.58	-48.74	-43.64	-40.64	-27.00	-13.64
5775MHz	Pass	5.47G	5.85G	PK	5.64898G	3.00	-45.59	-41.51	-42.48	-40.79	-36.23	-33.23	-27.00	-6.23
5775MHz	Pass	5.85G	6.01G	PK	5.92712G	3.00	-48.49	-46.09	-46.56	-45.27	-40.43	-37.43	-27.00	-10.43
5775MHz	Pass	6.01G	6.5G	PK	6.12356G	3.00	-50.58	-47.29	-50.88	-52.34	-43.83	-40.83	-27.00	-13.83

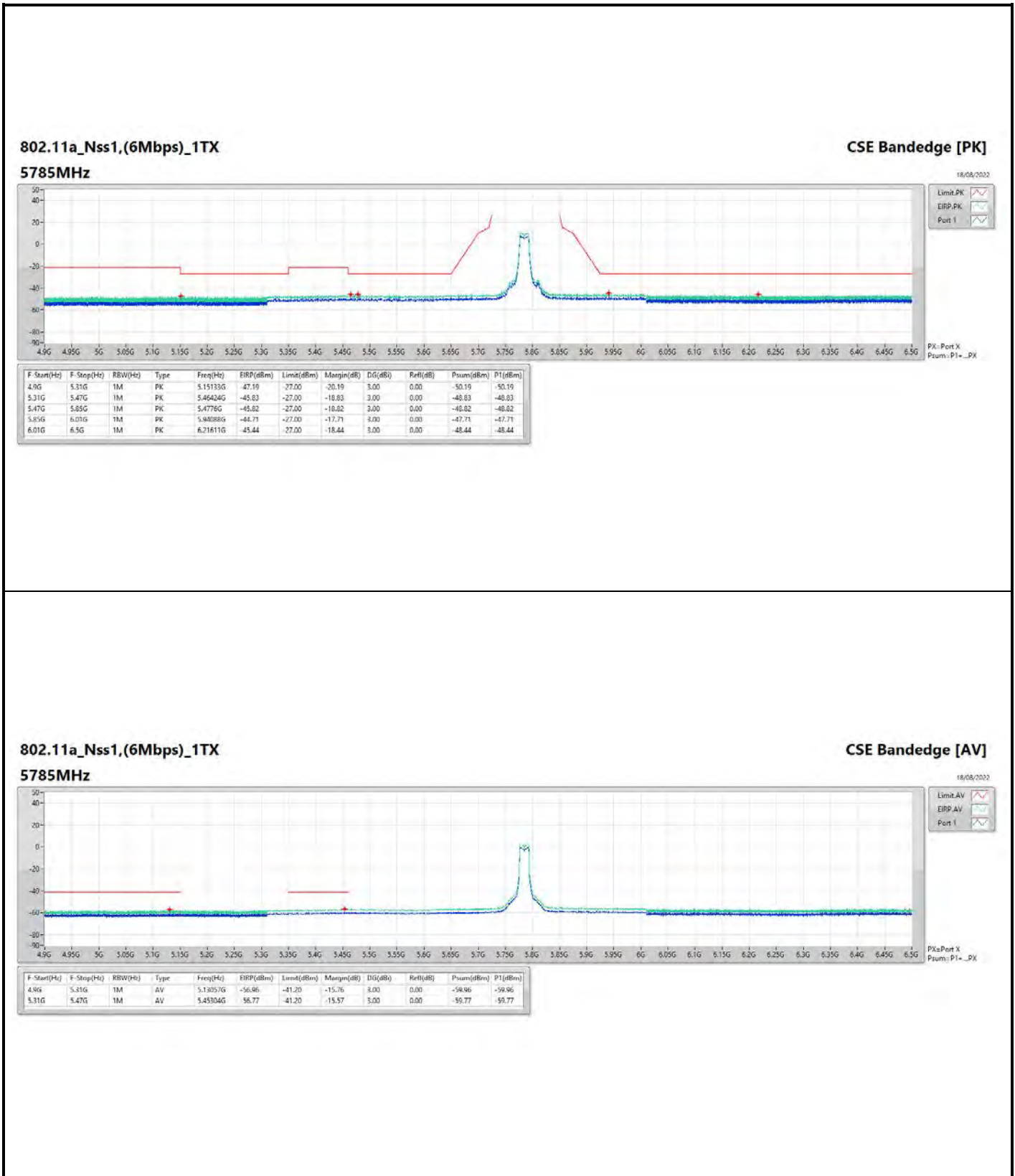
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



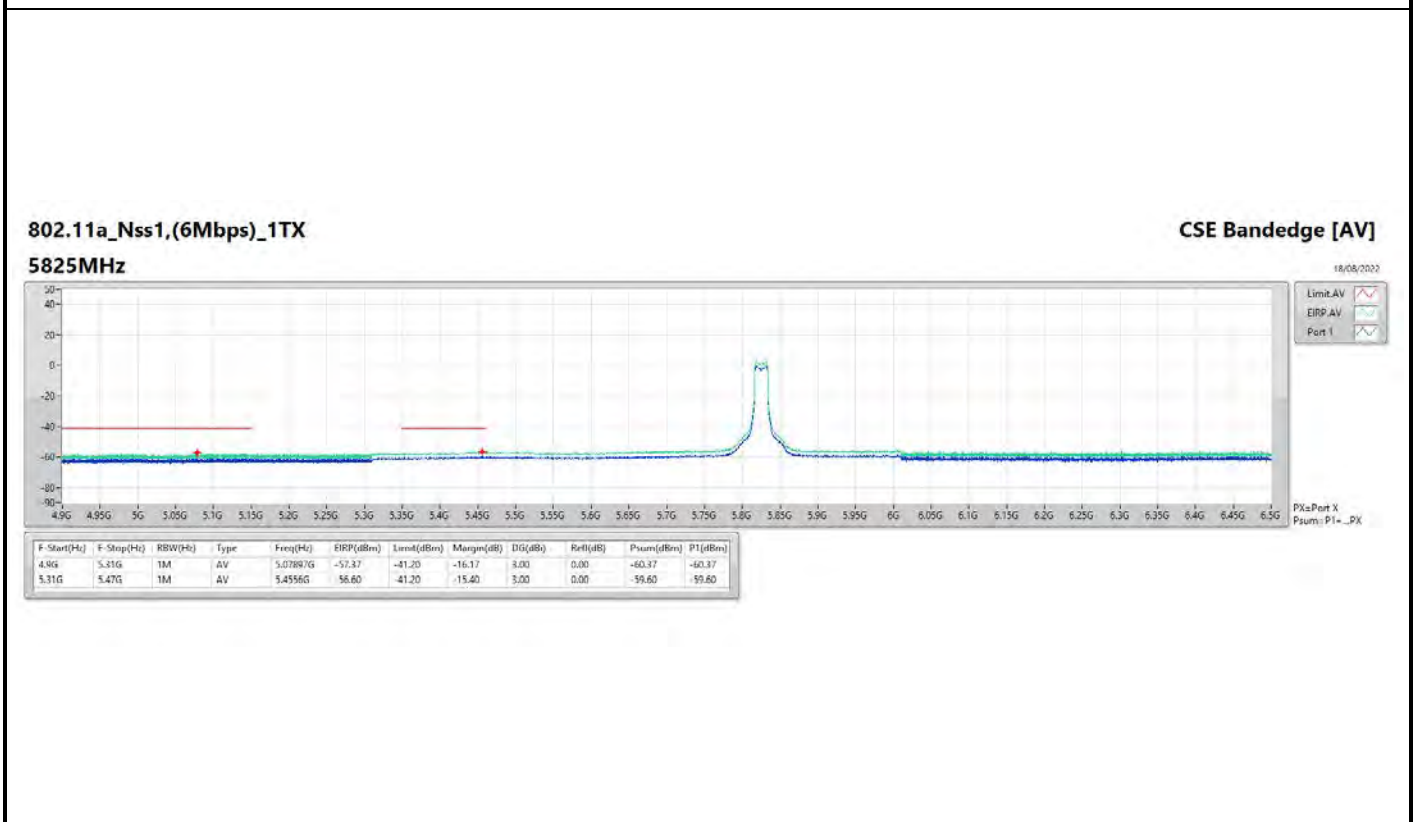
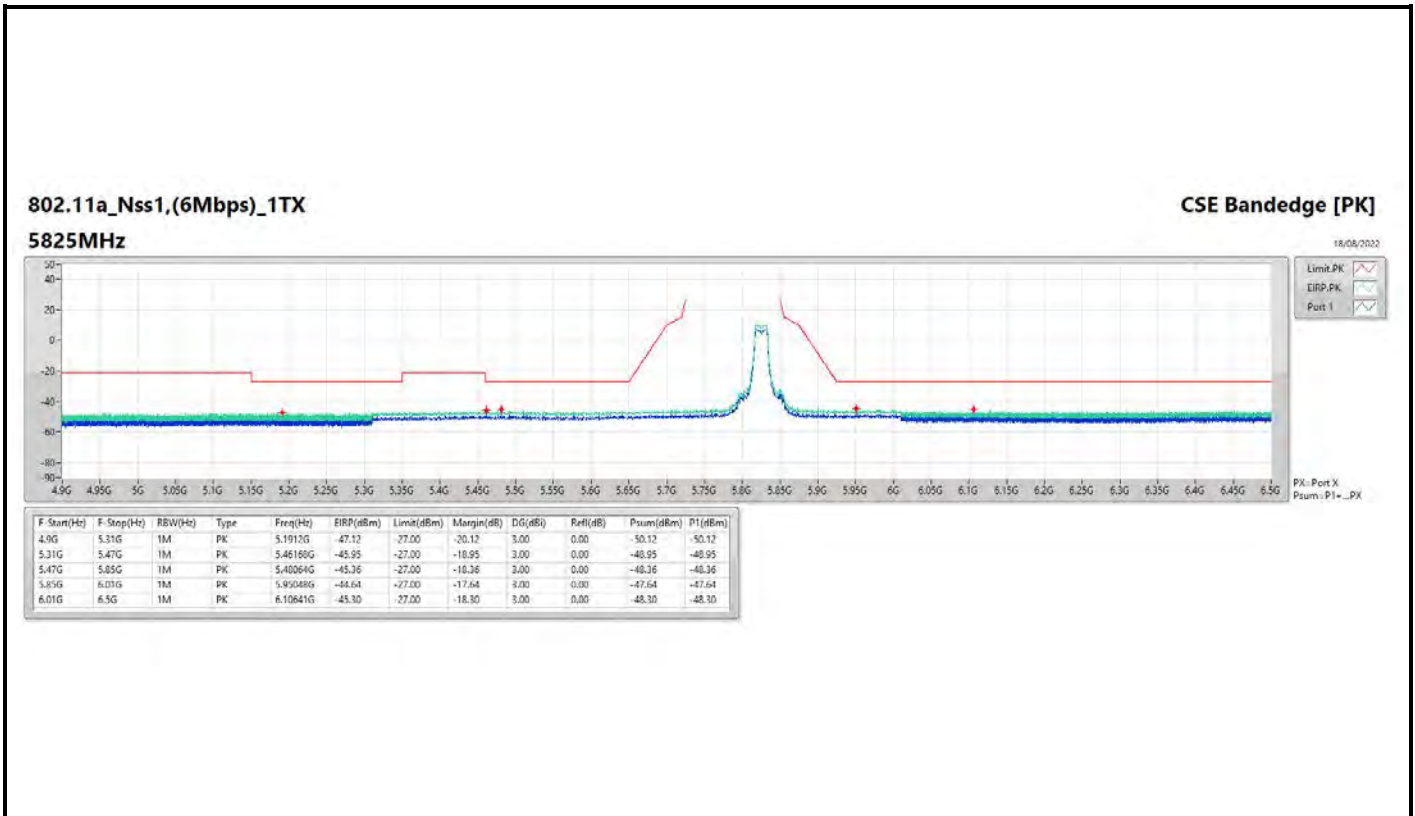


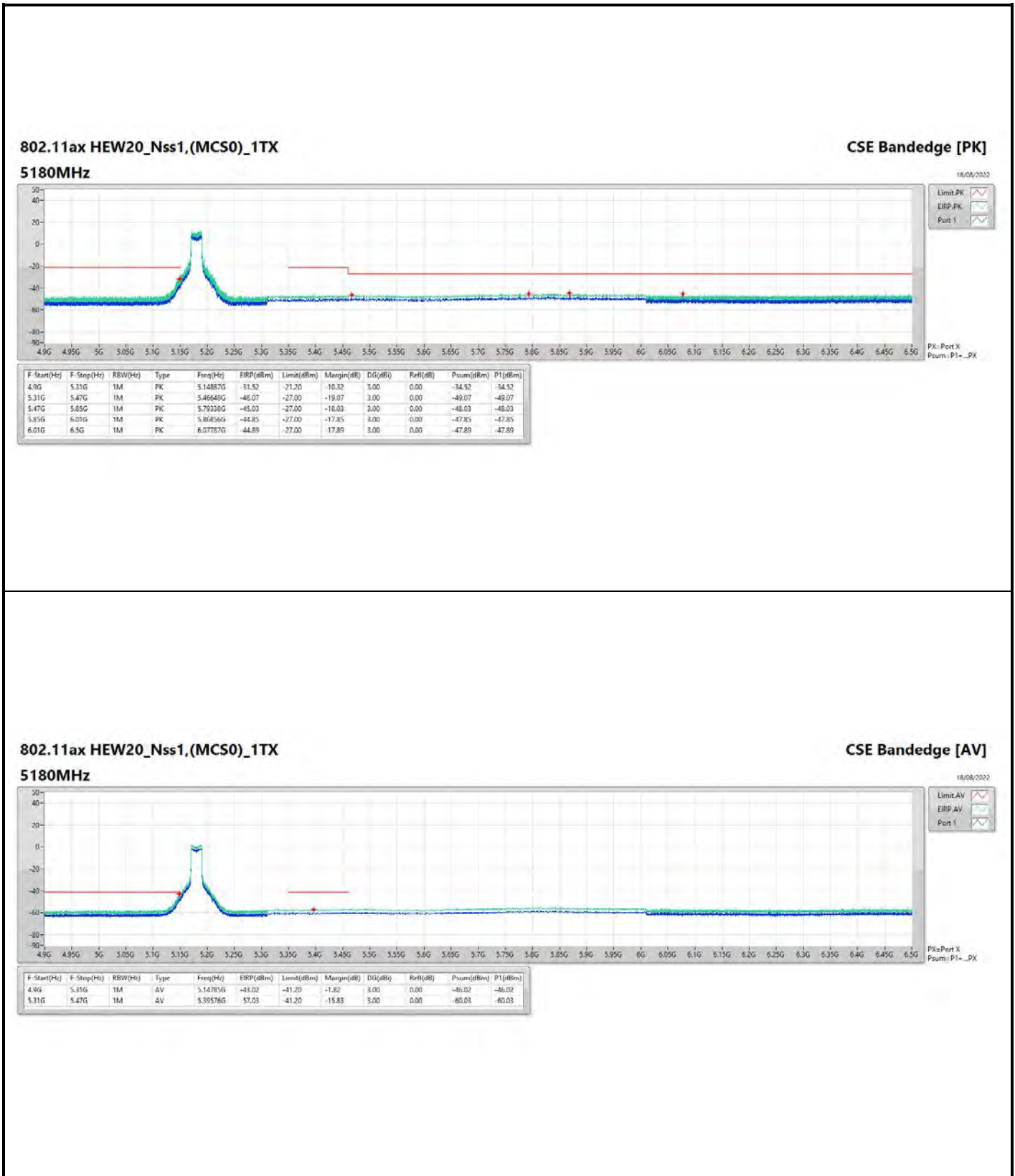


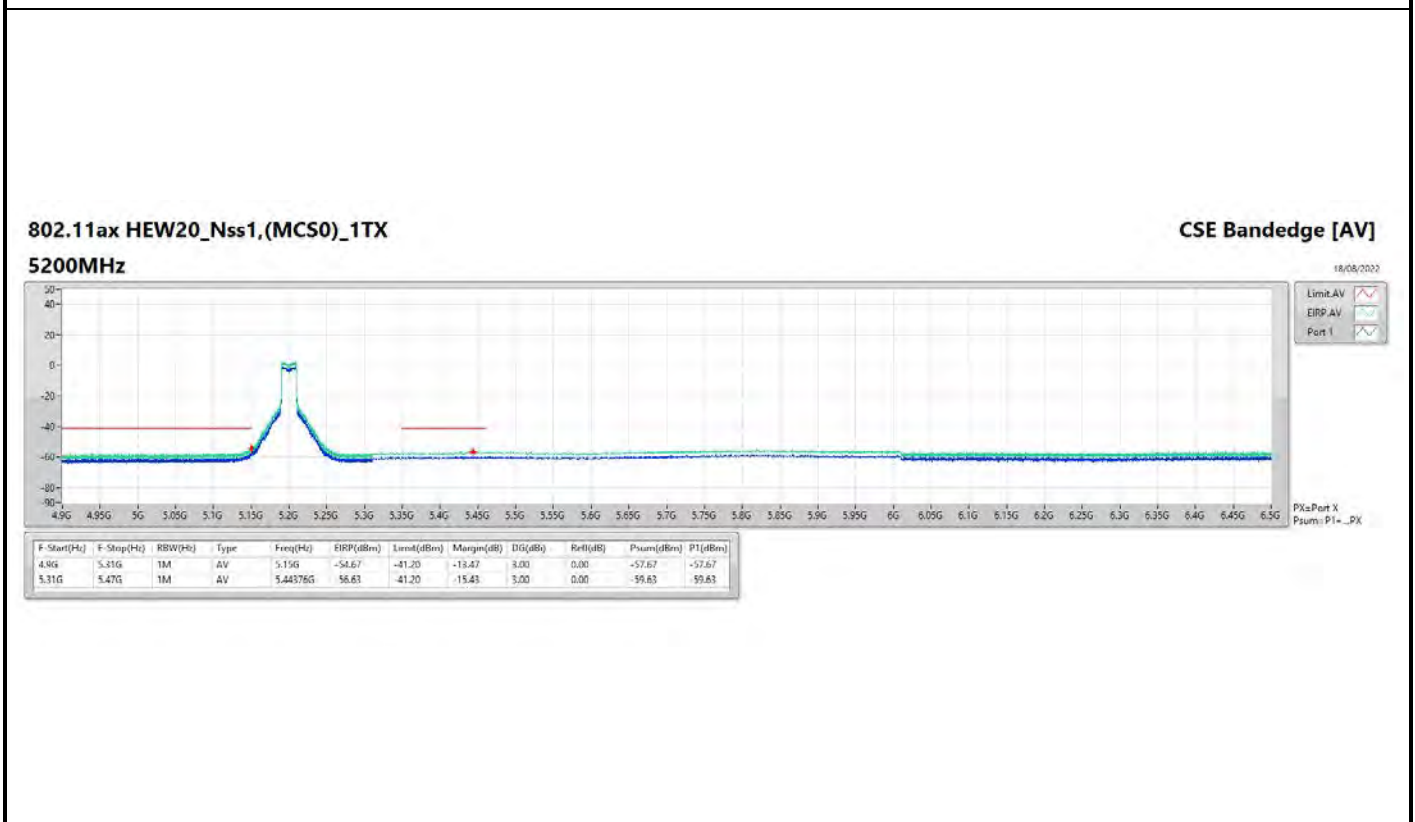
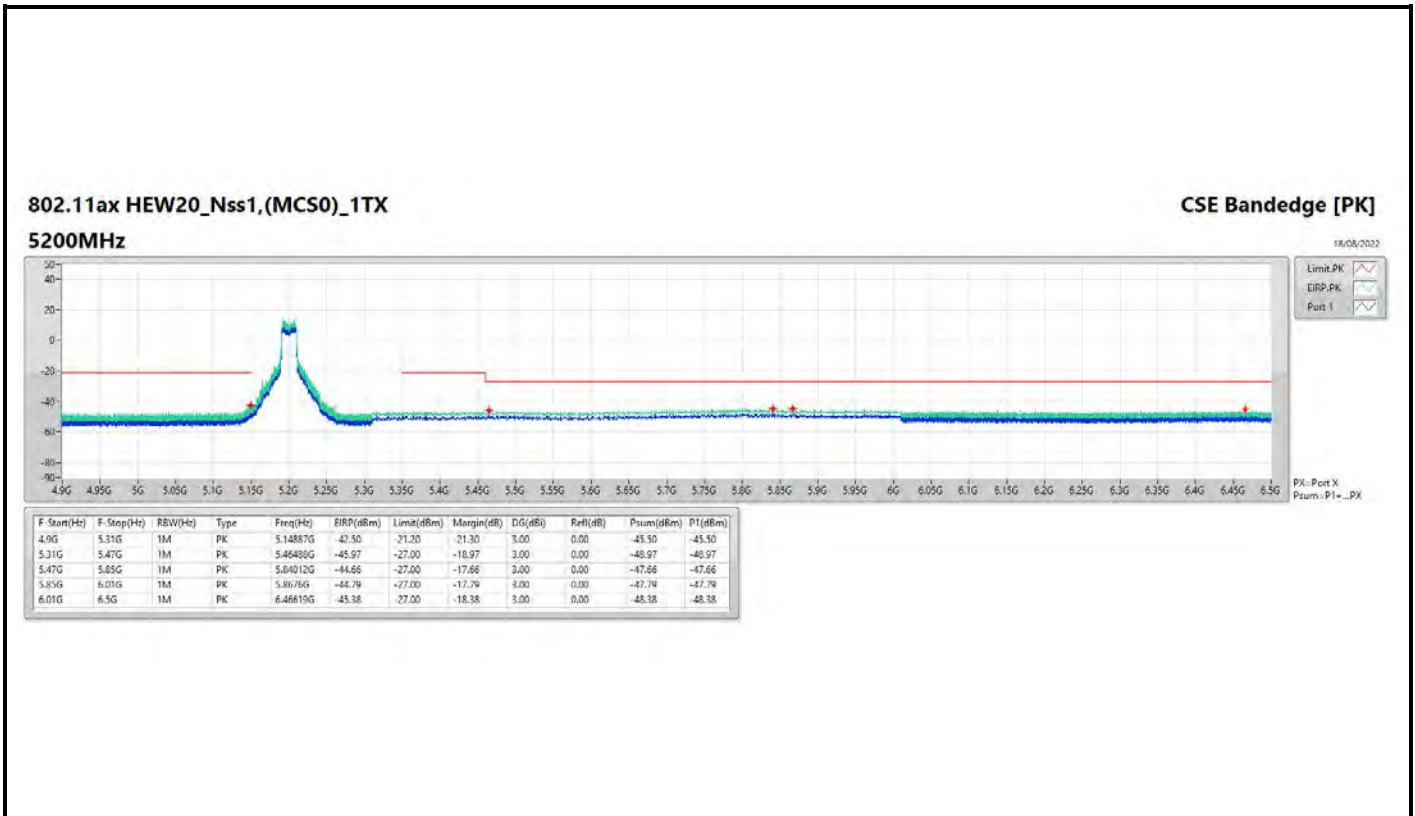


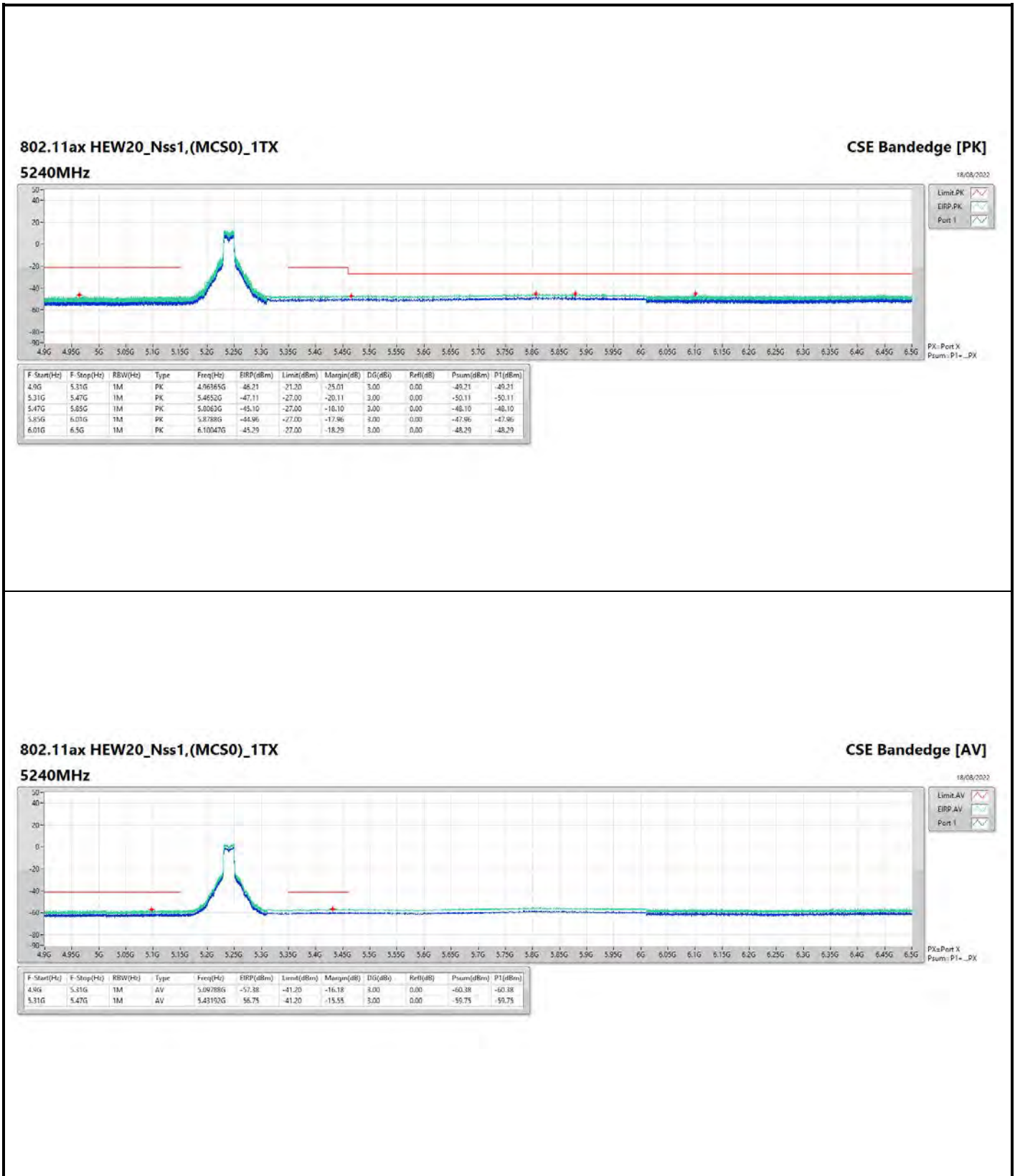


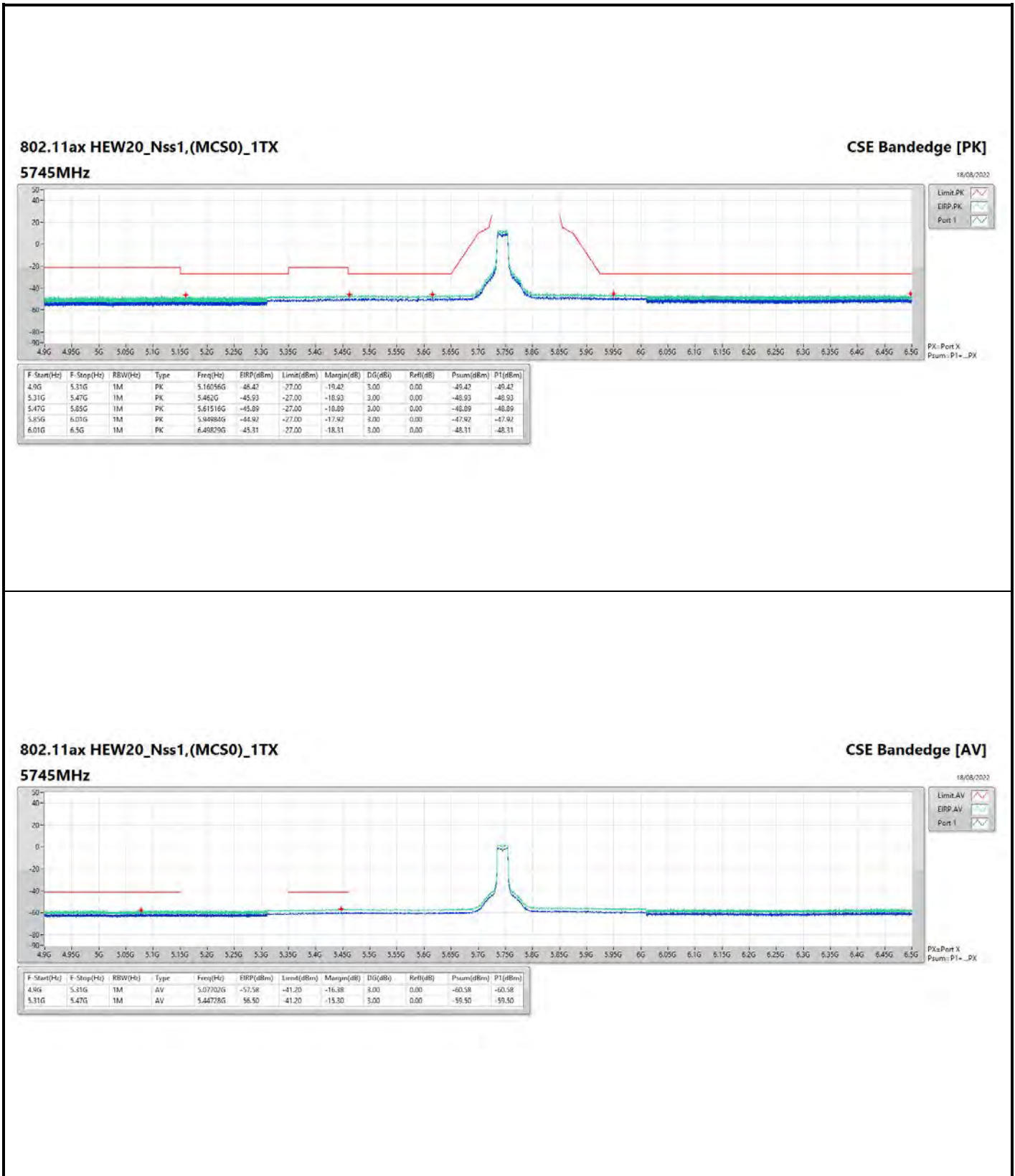


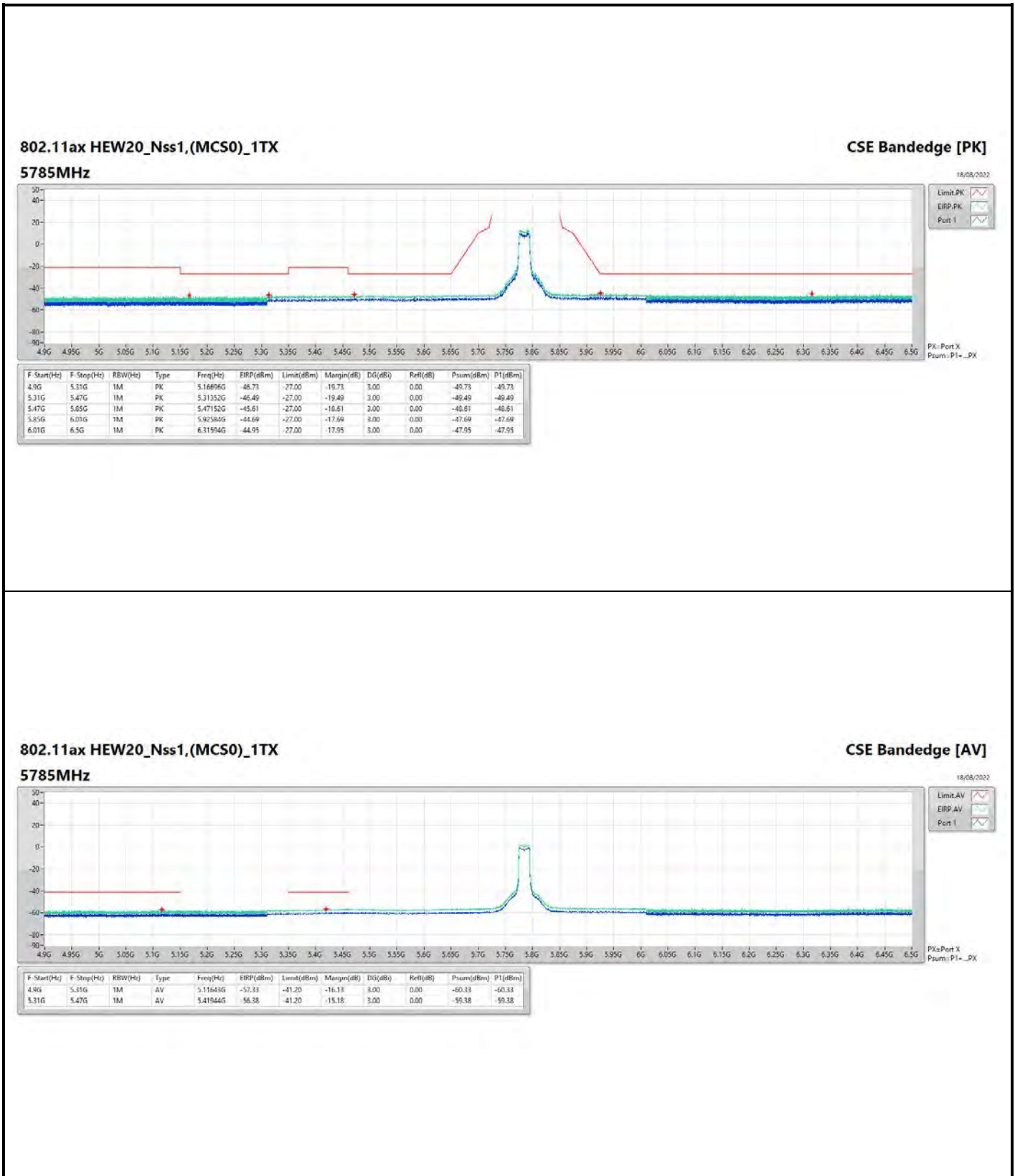


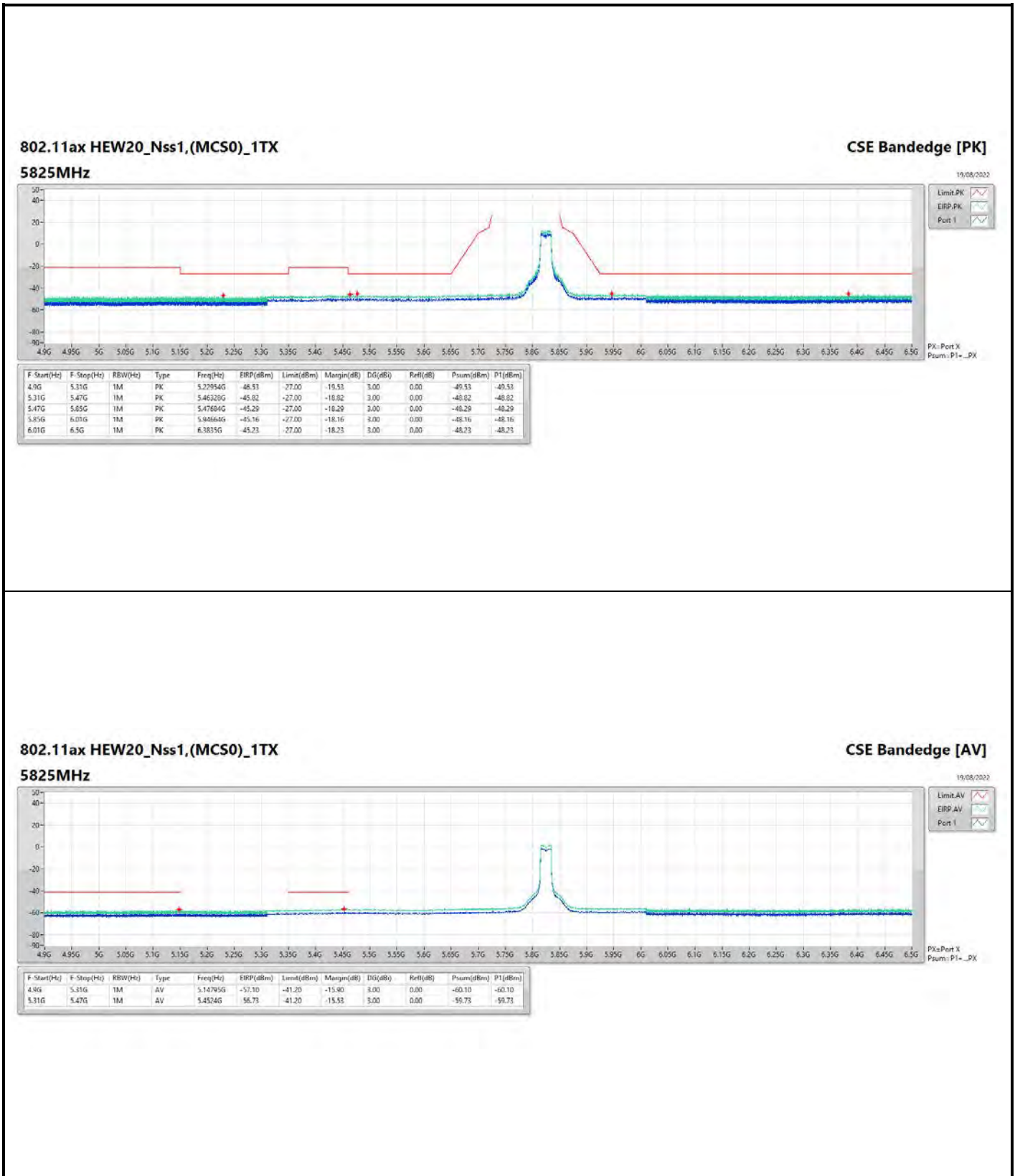


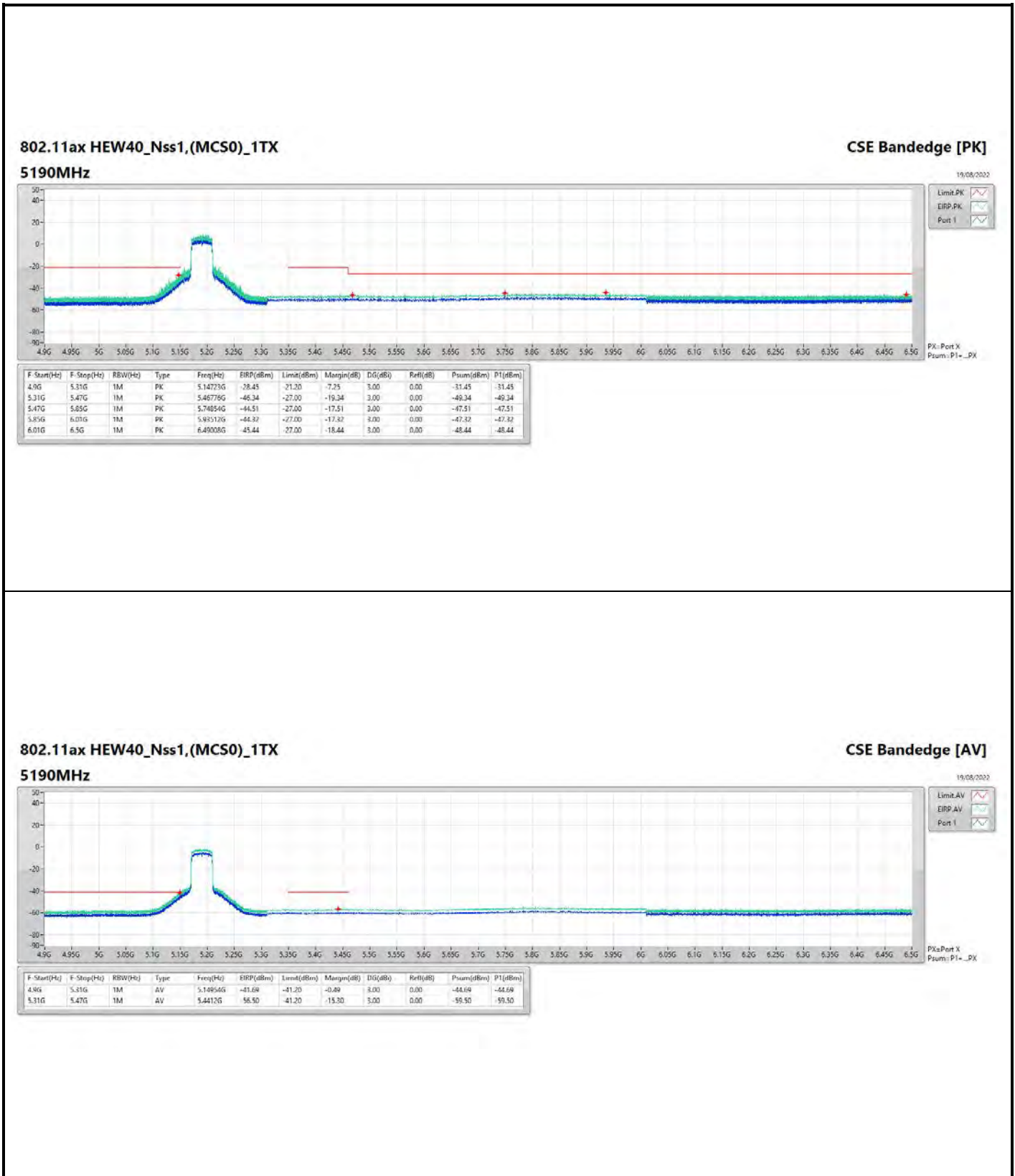




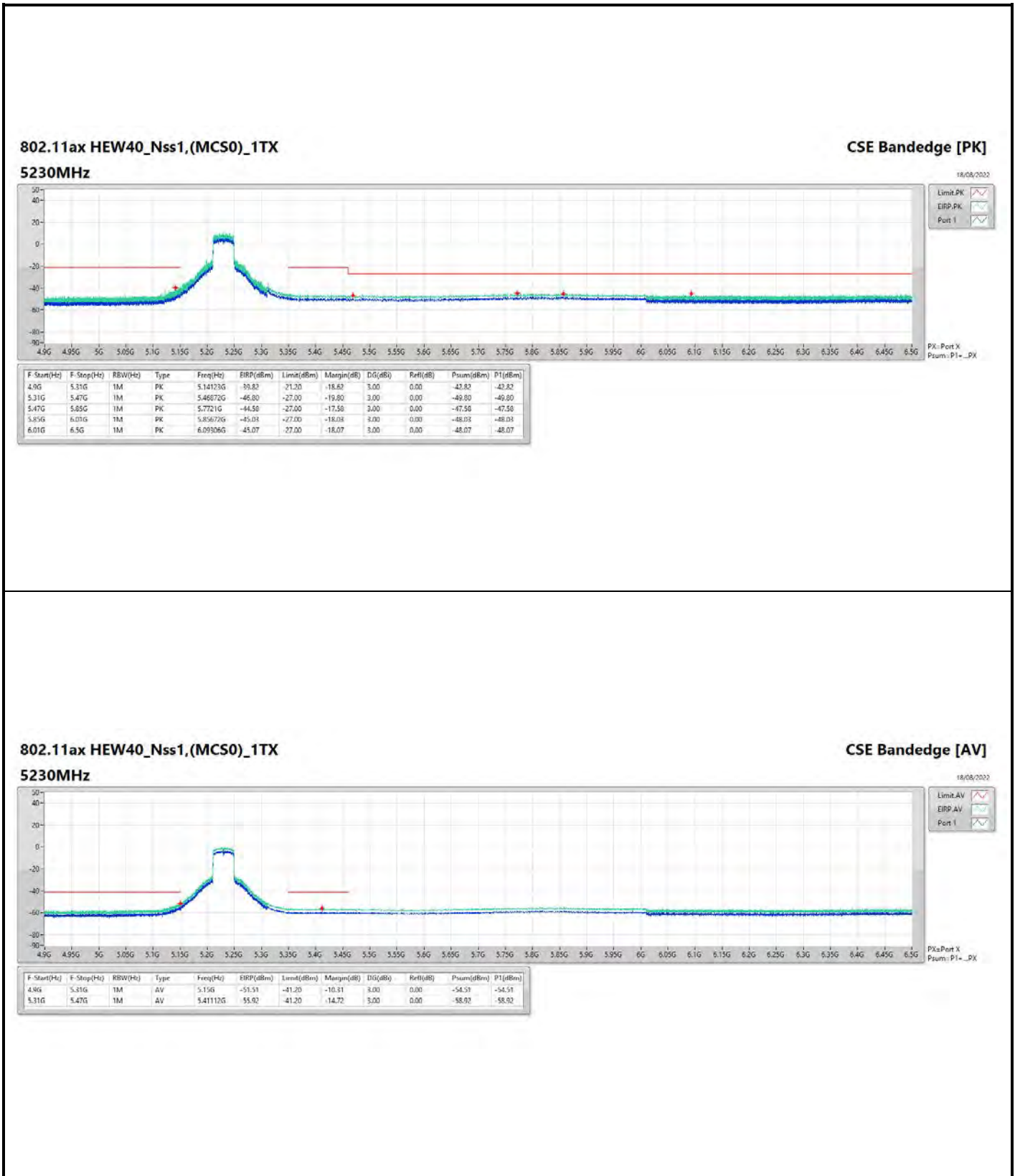


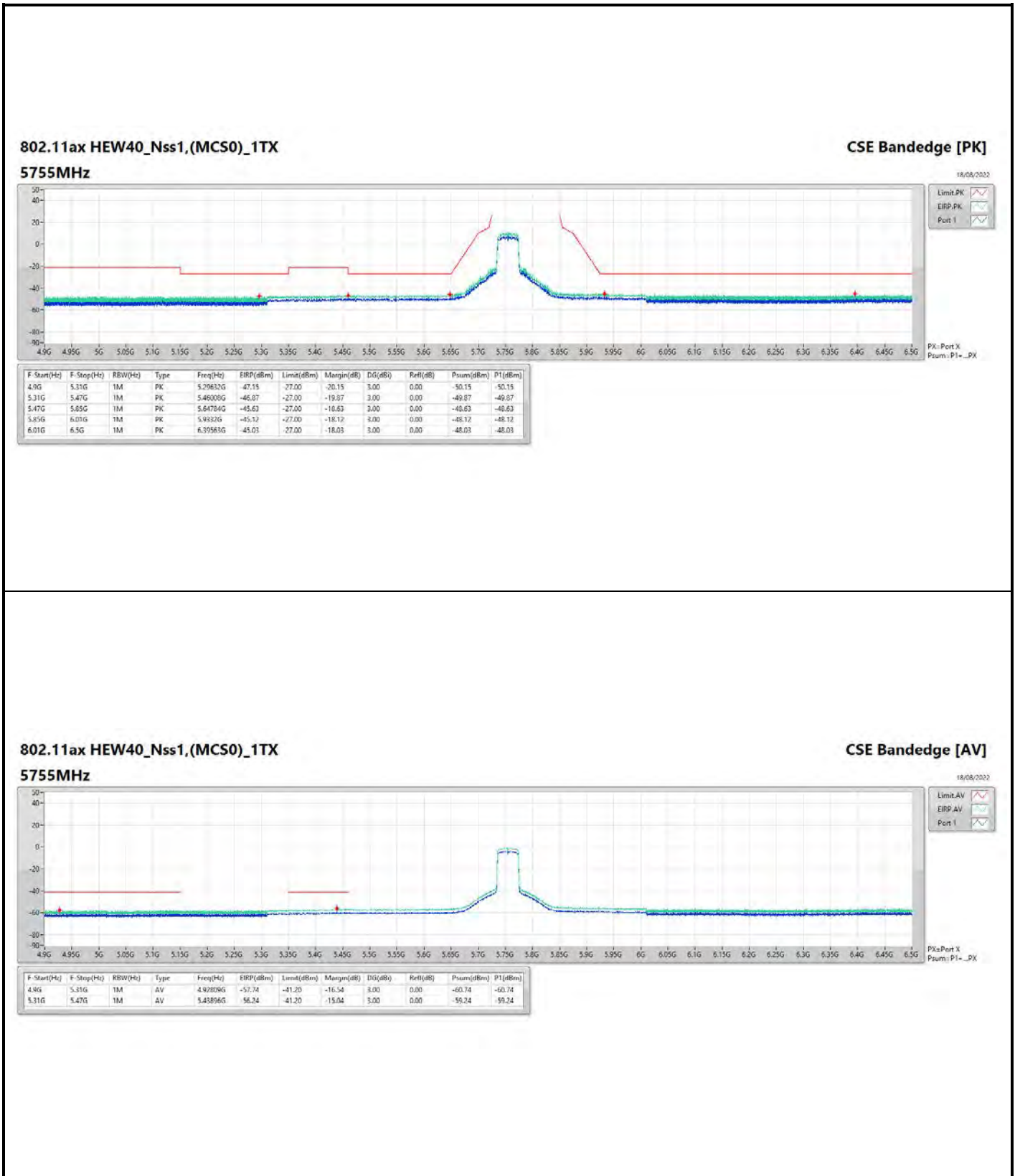


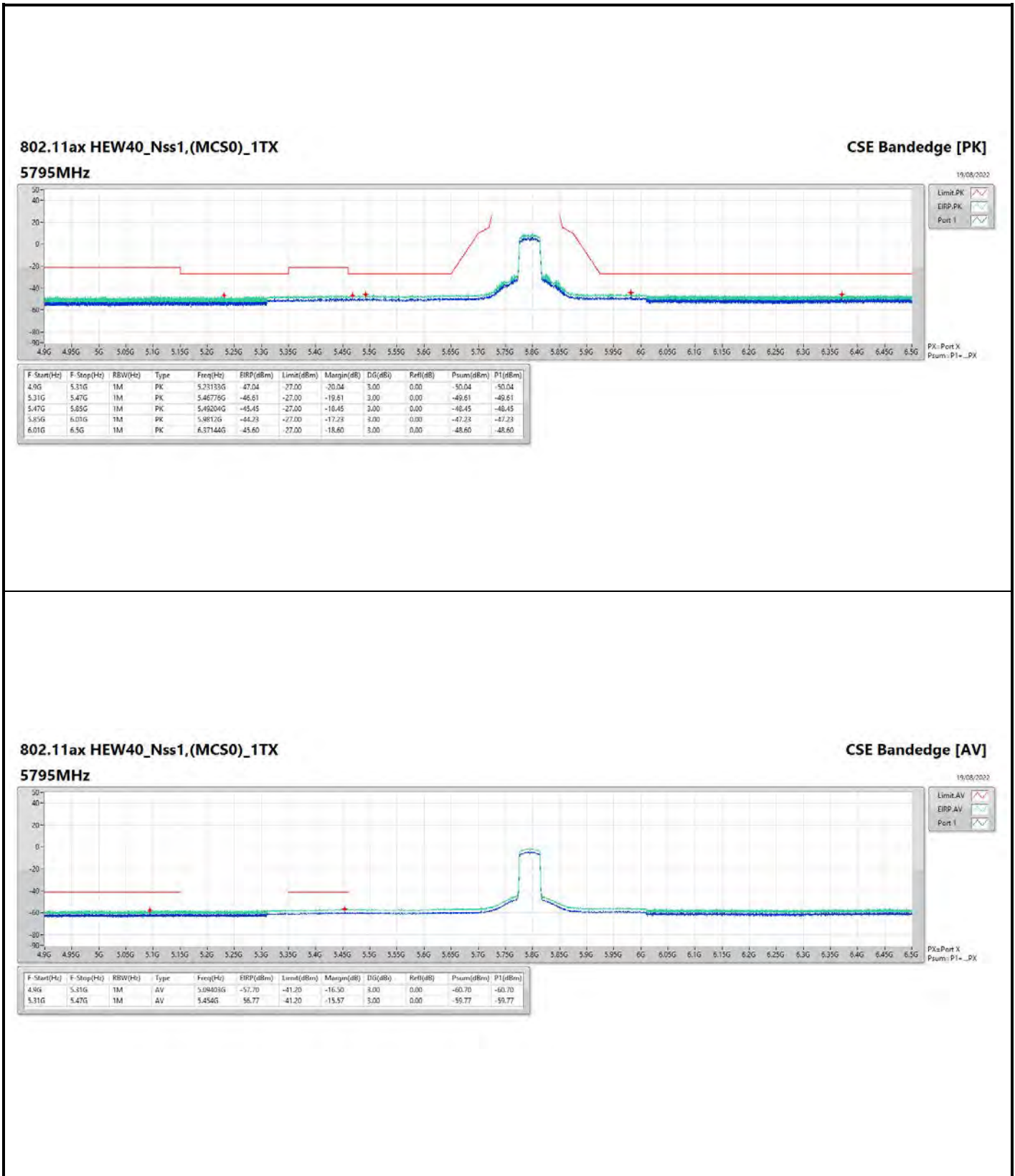


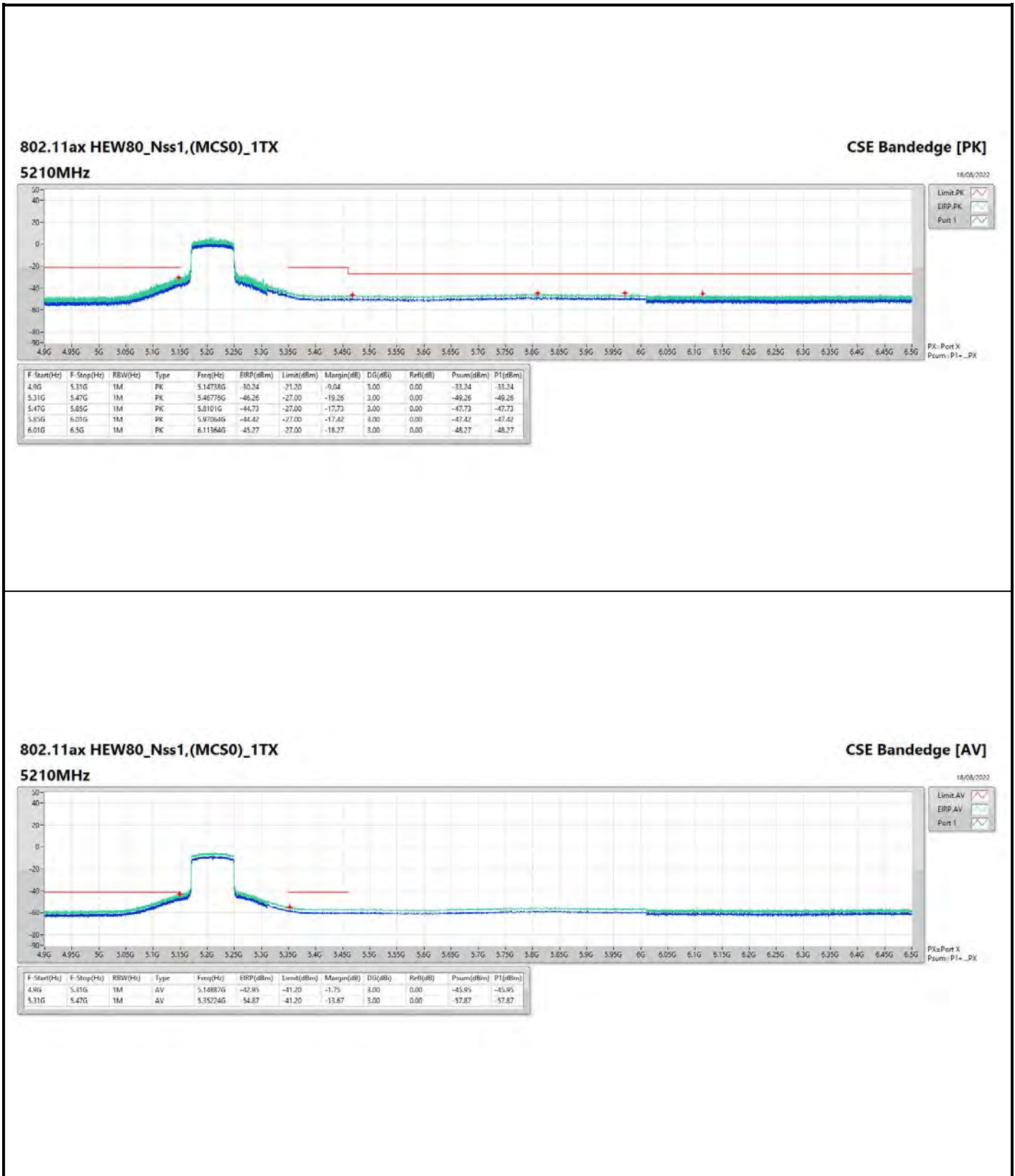


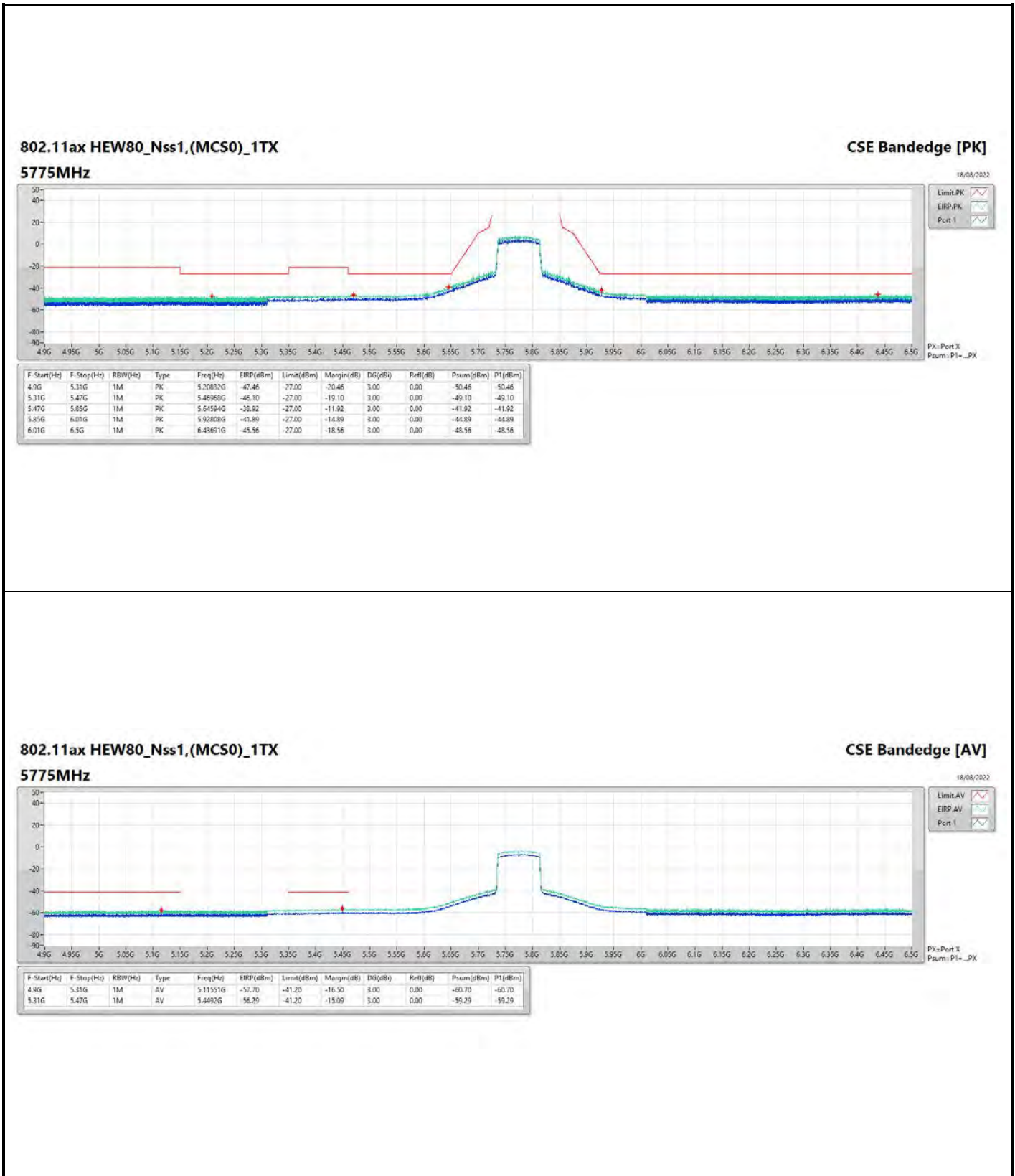


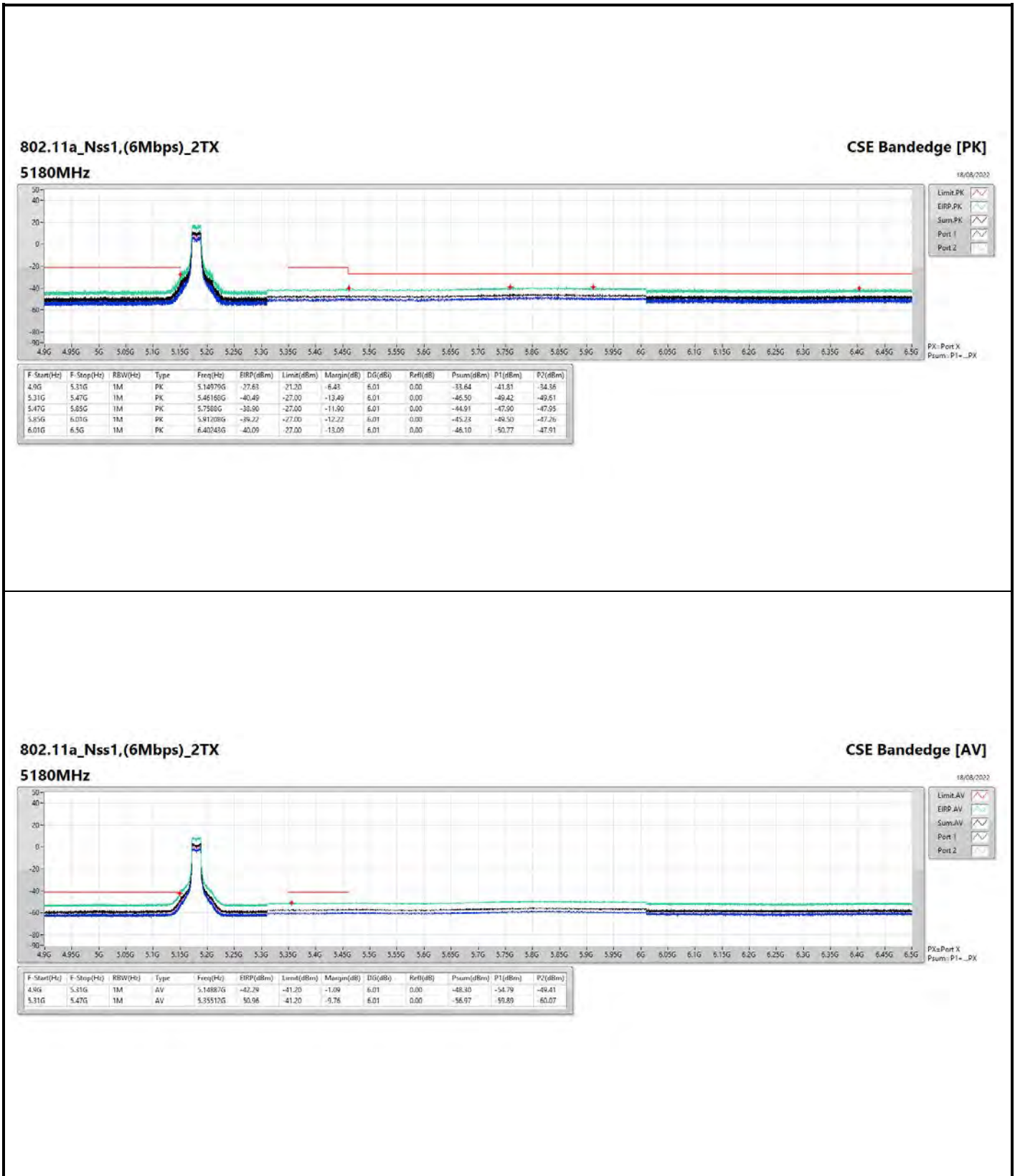


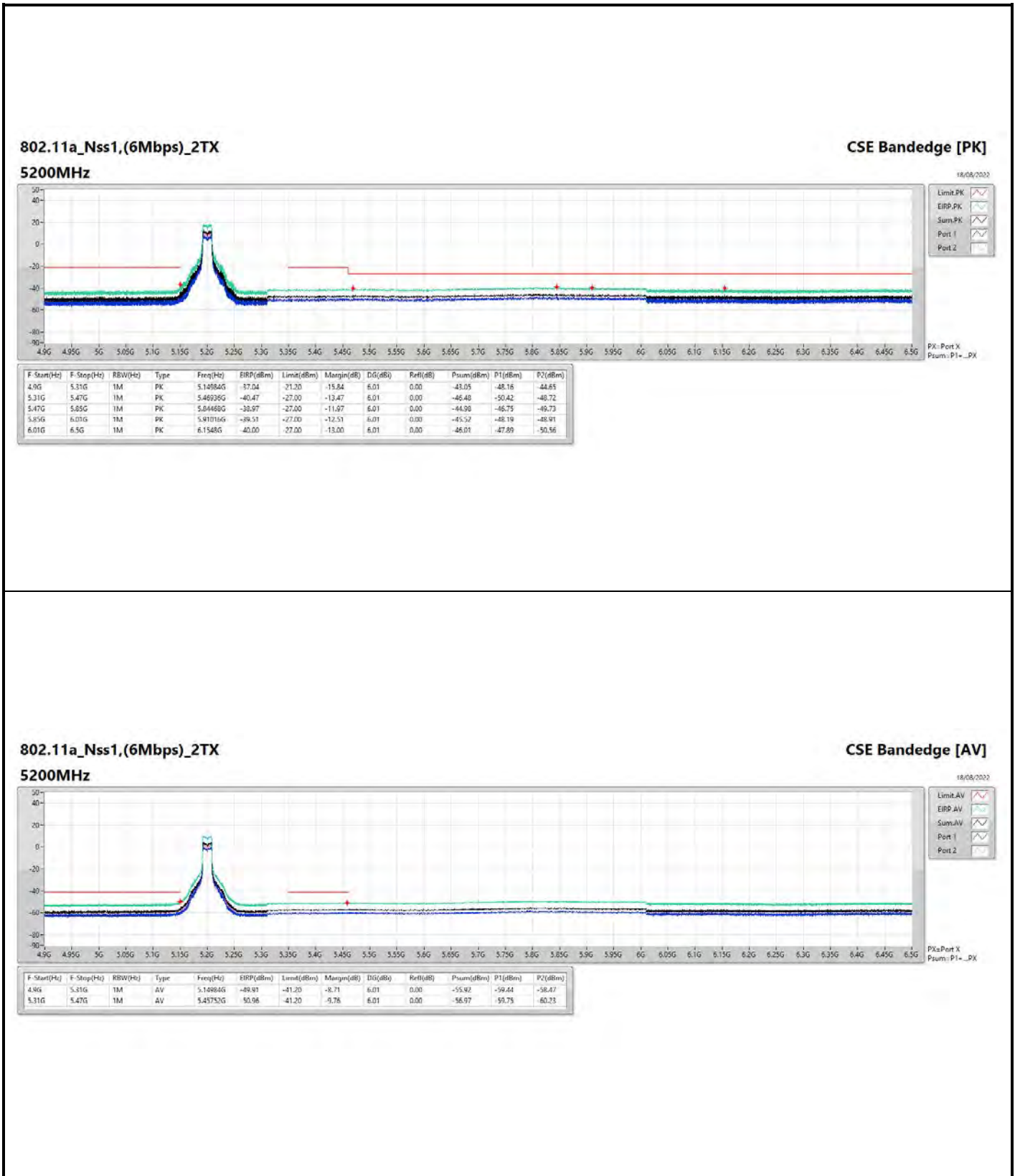


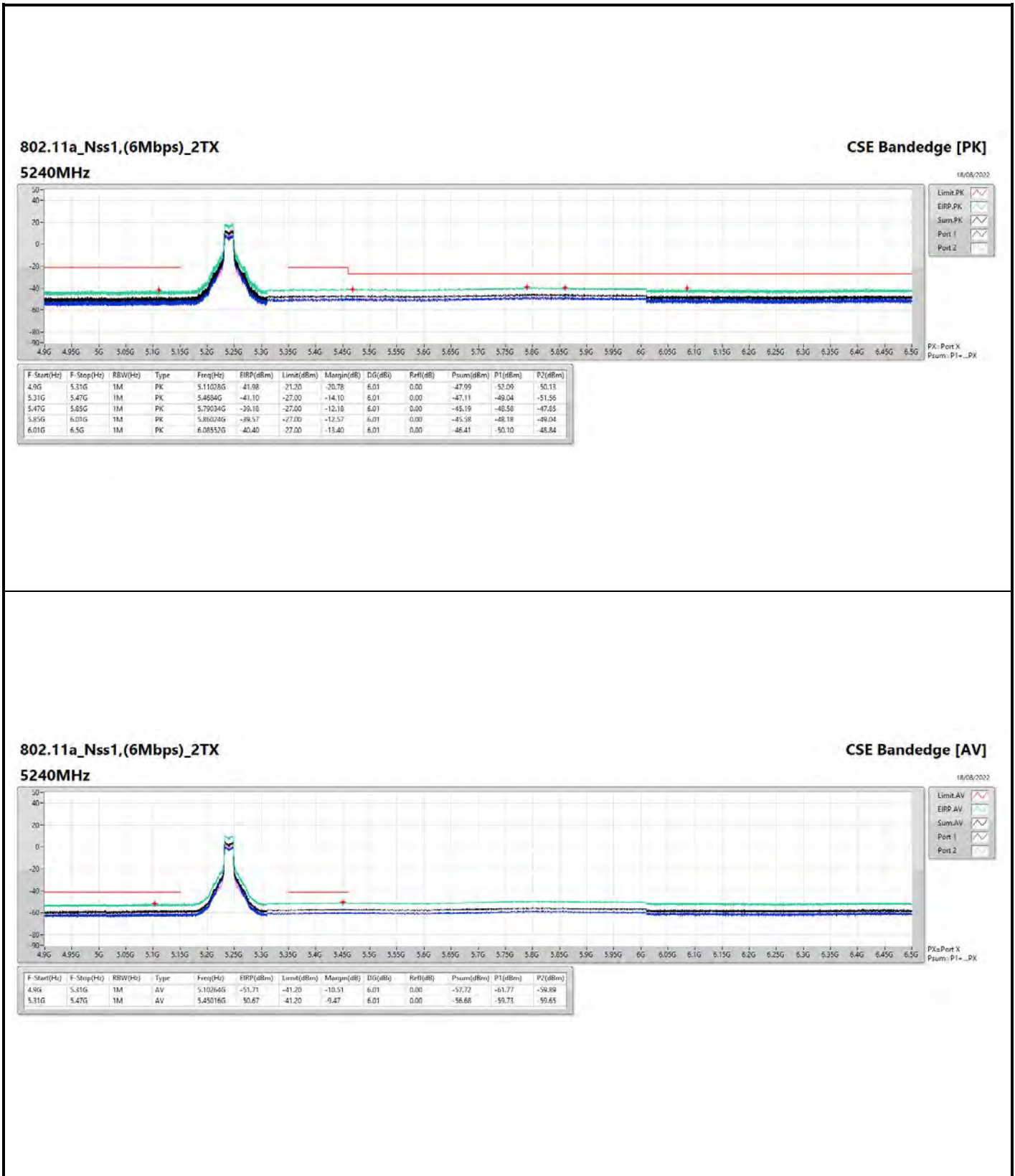












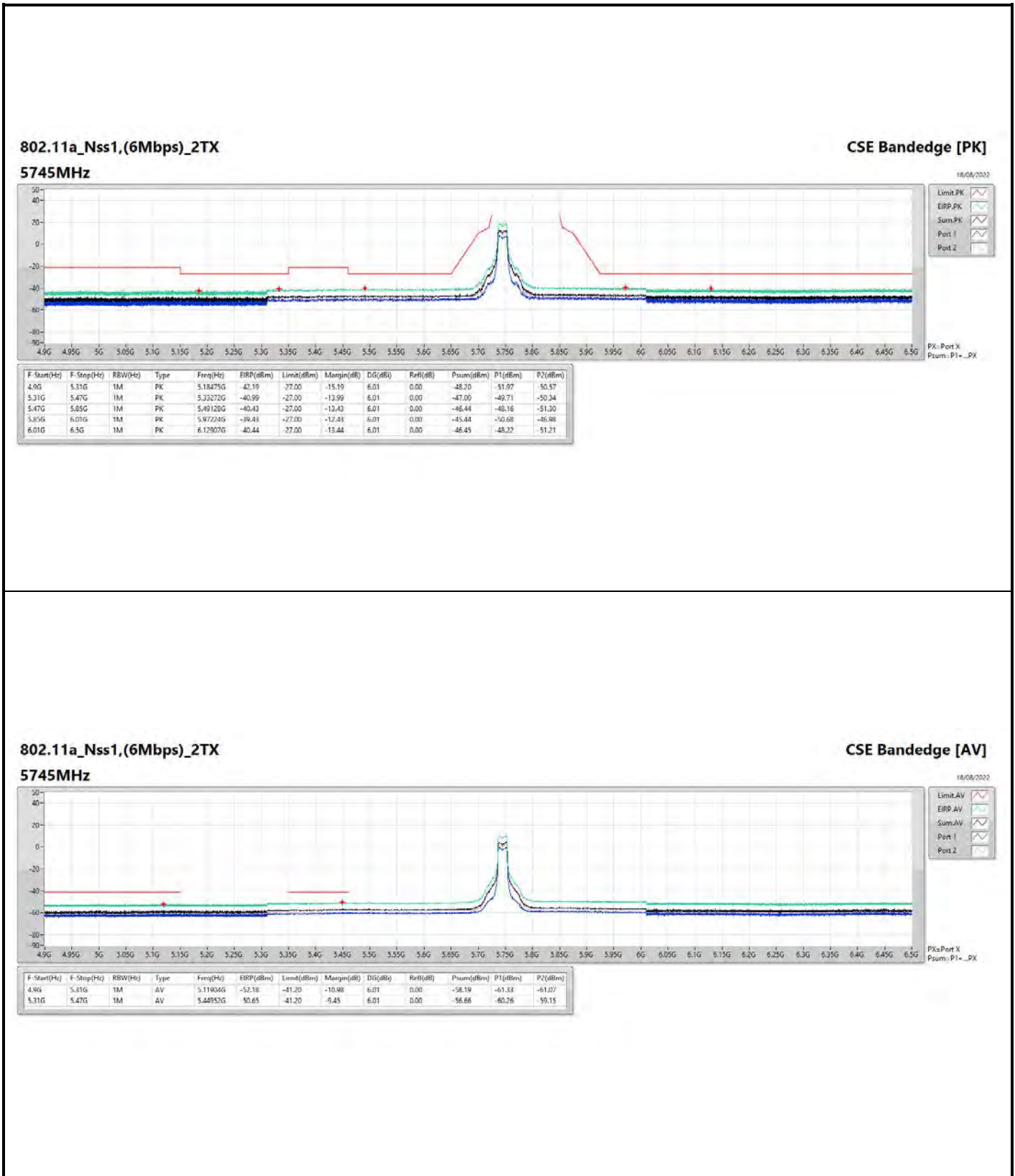
**802.11a\_Nss1,(6Mbps)\_2TX**

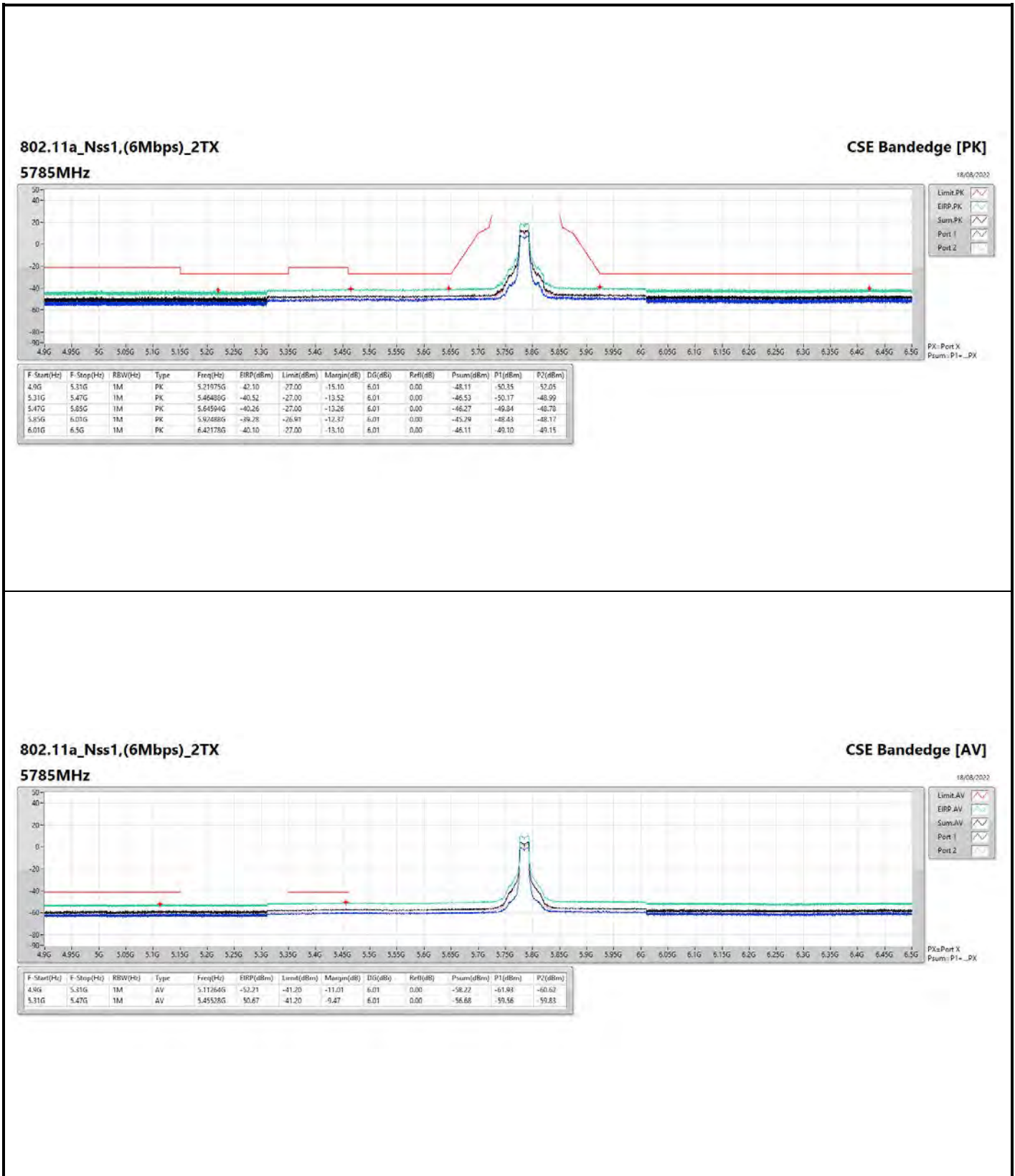
**5240MHz**

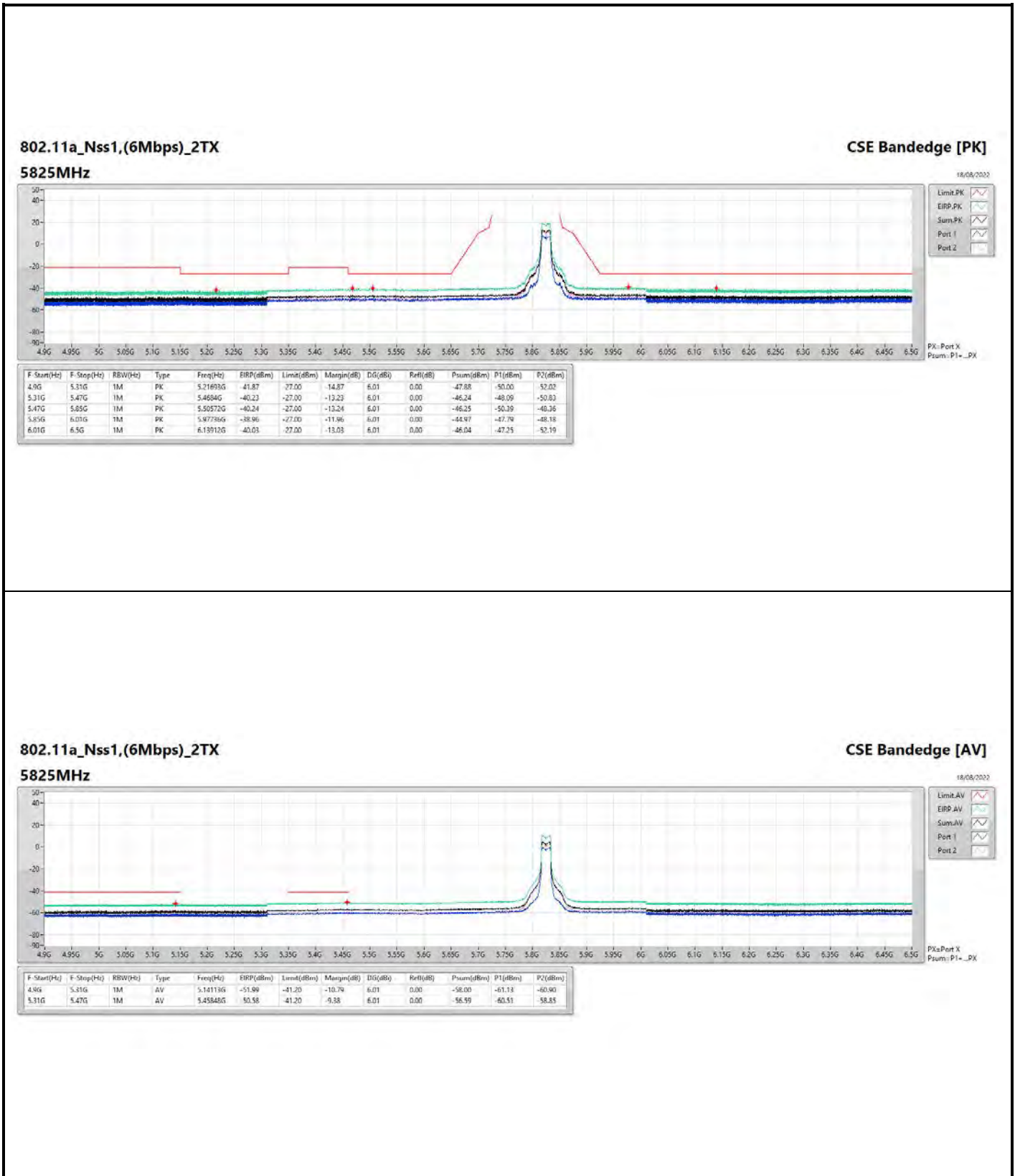
**CSE Bandedge [AV]**

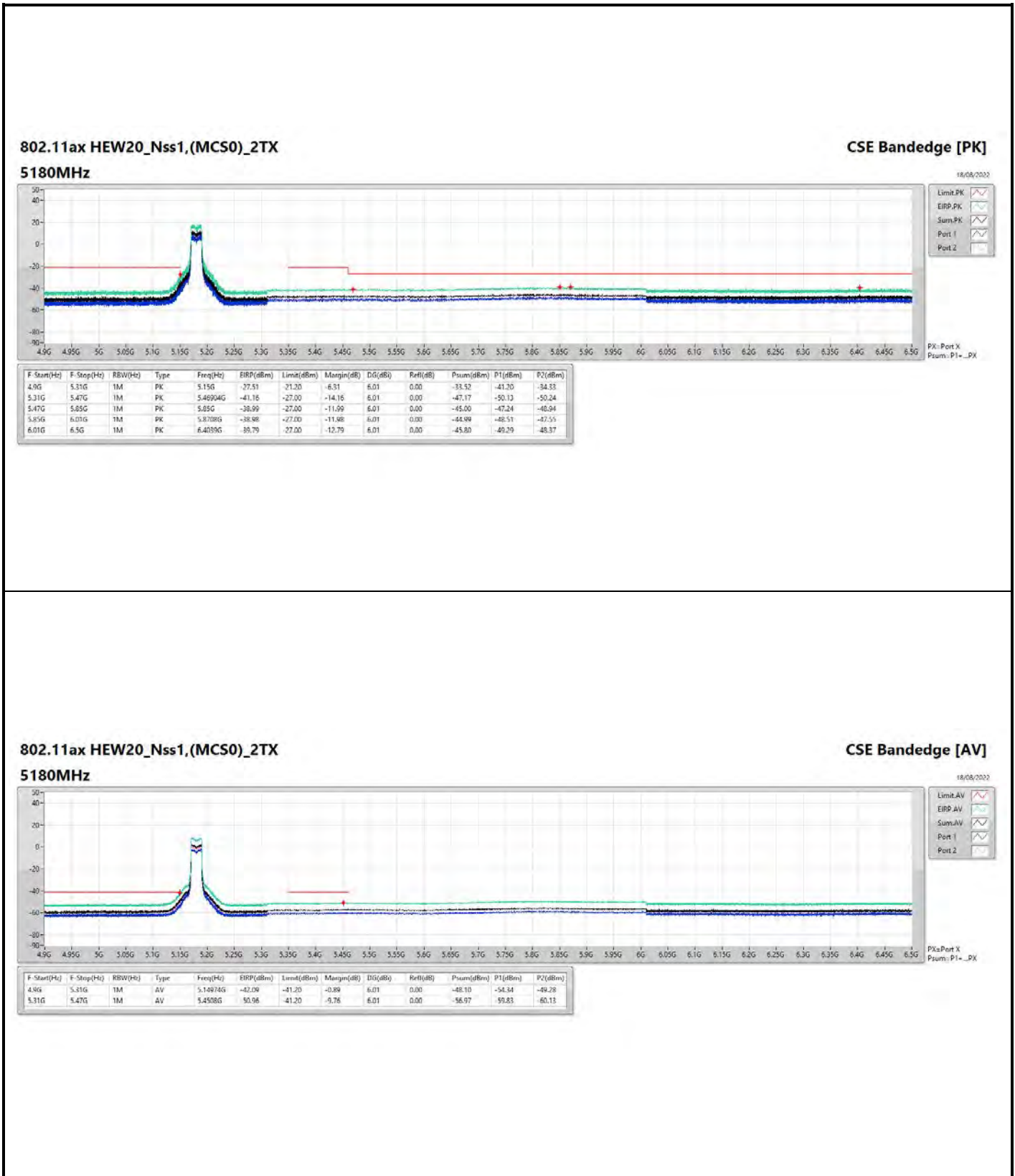
18/08/2022

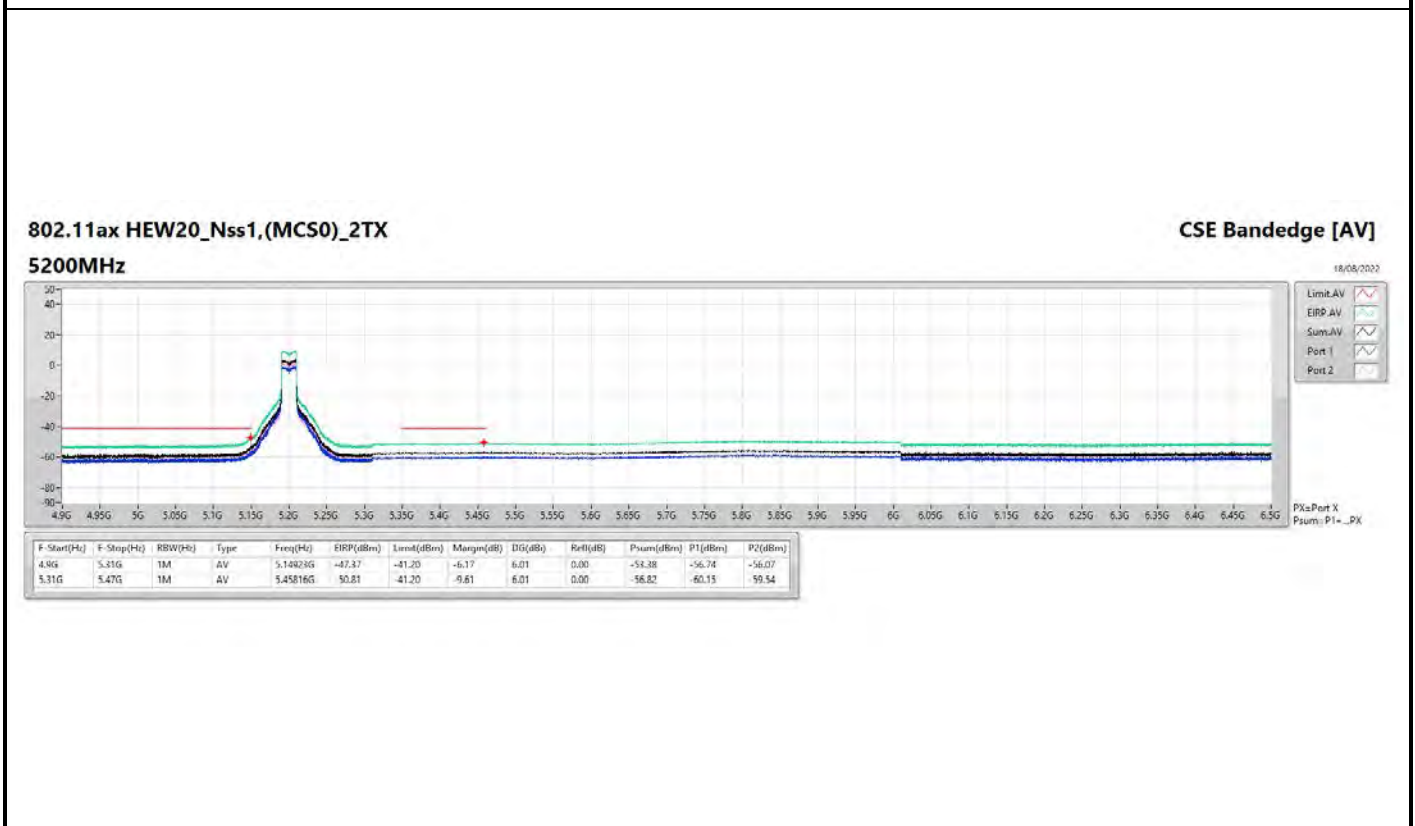
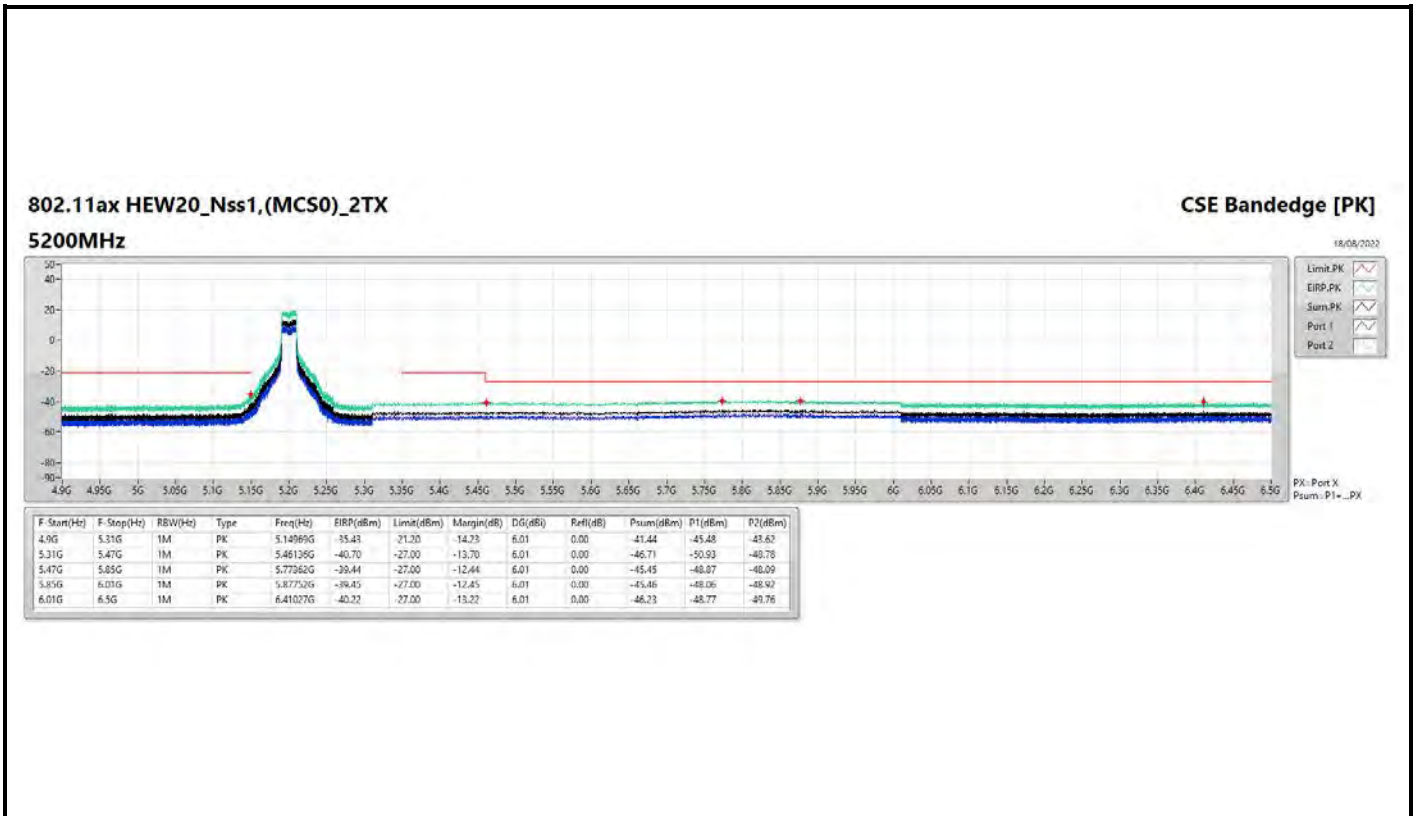


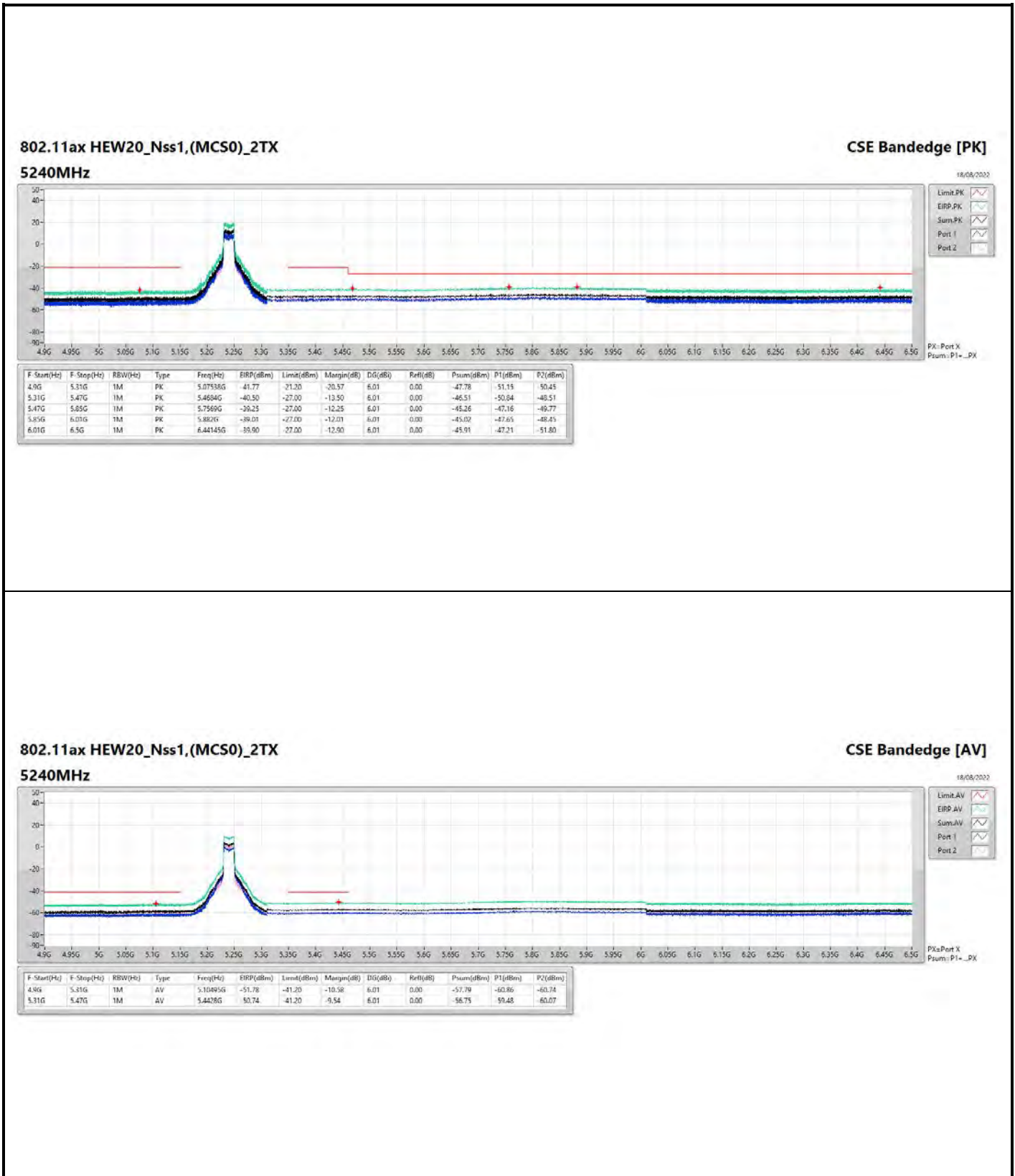


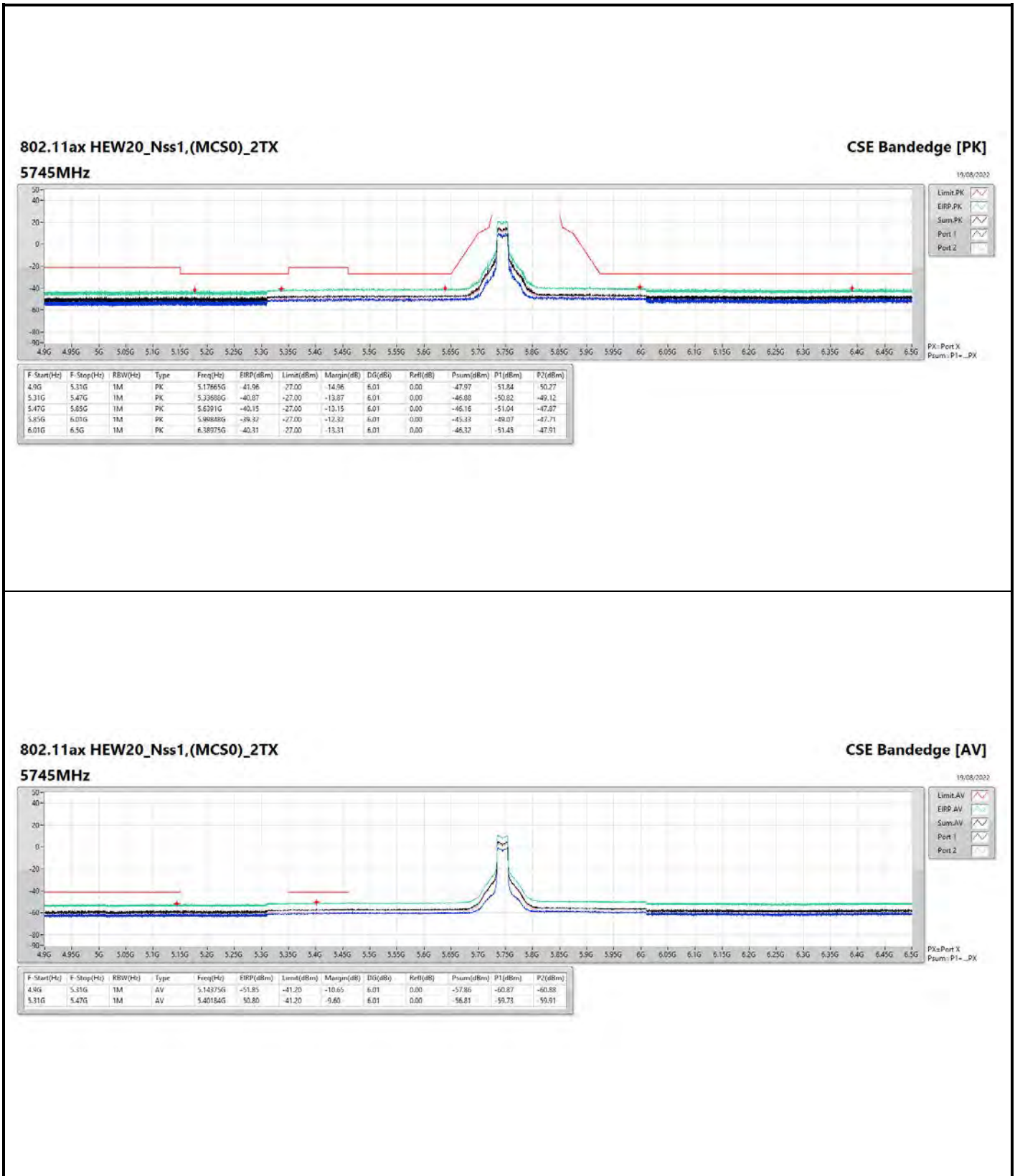


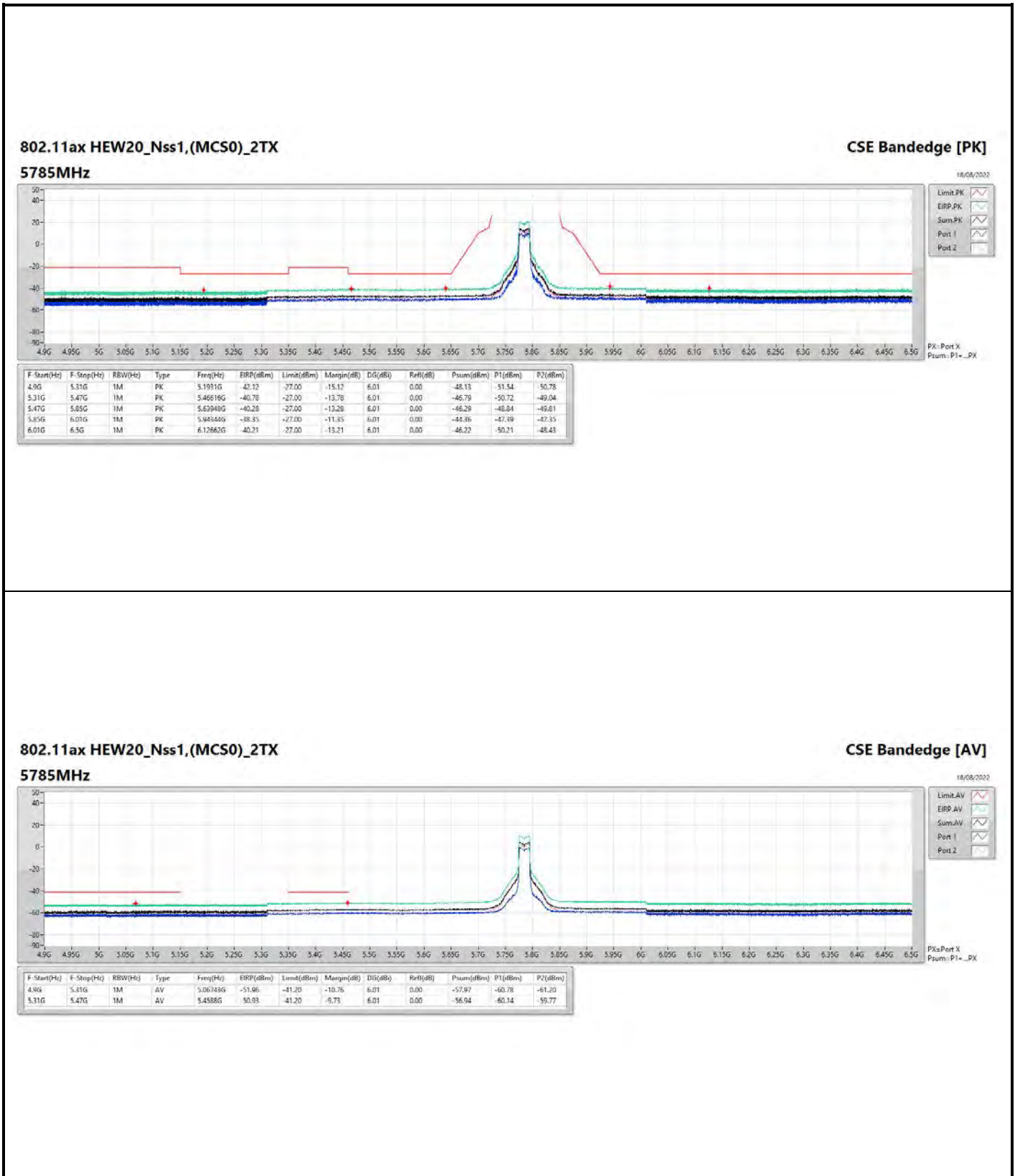




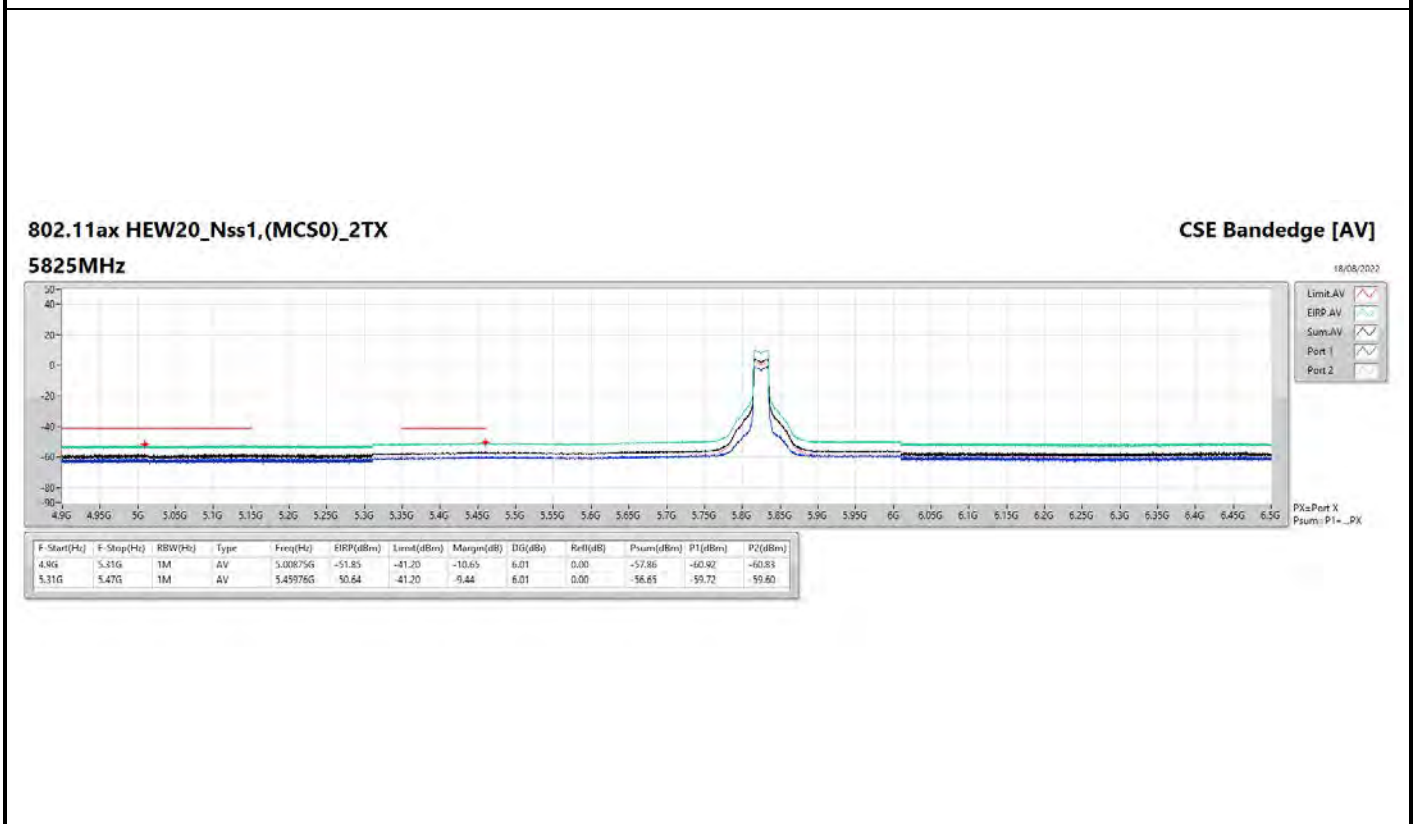
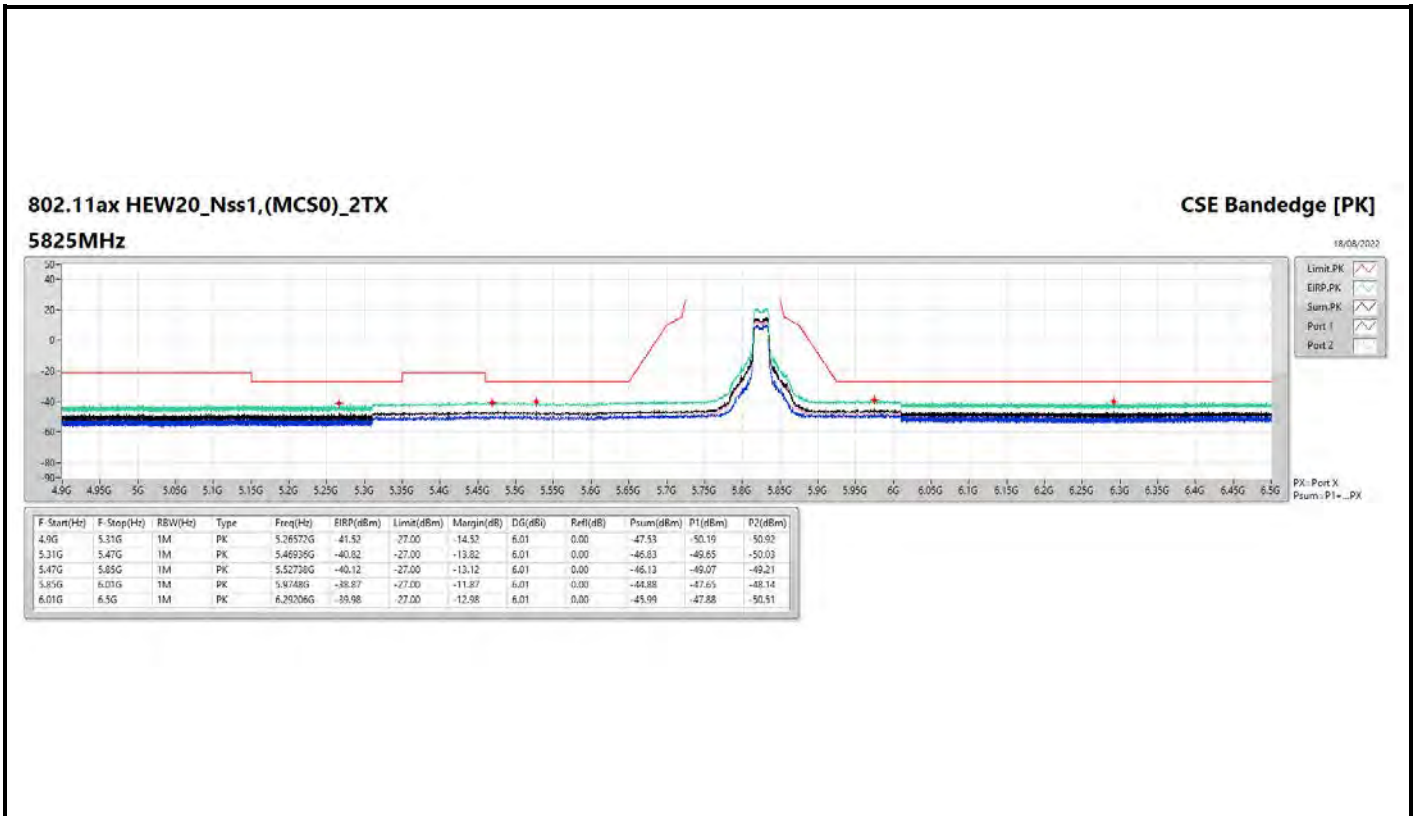


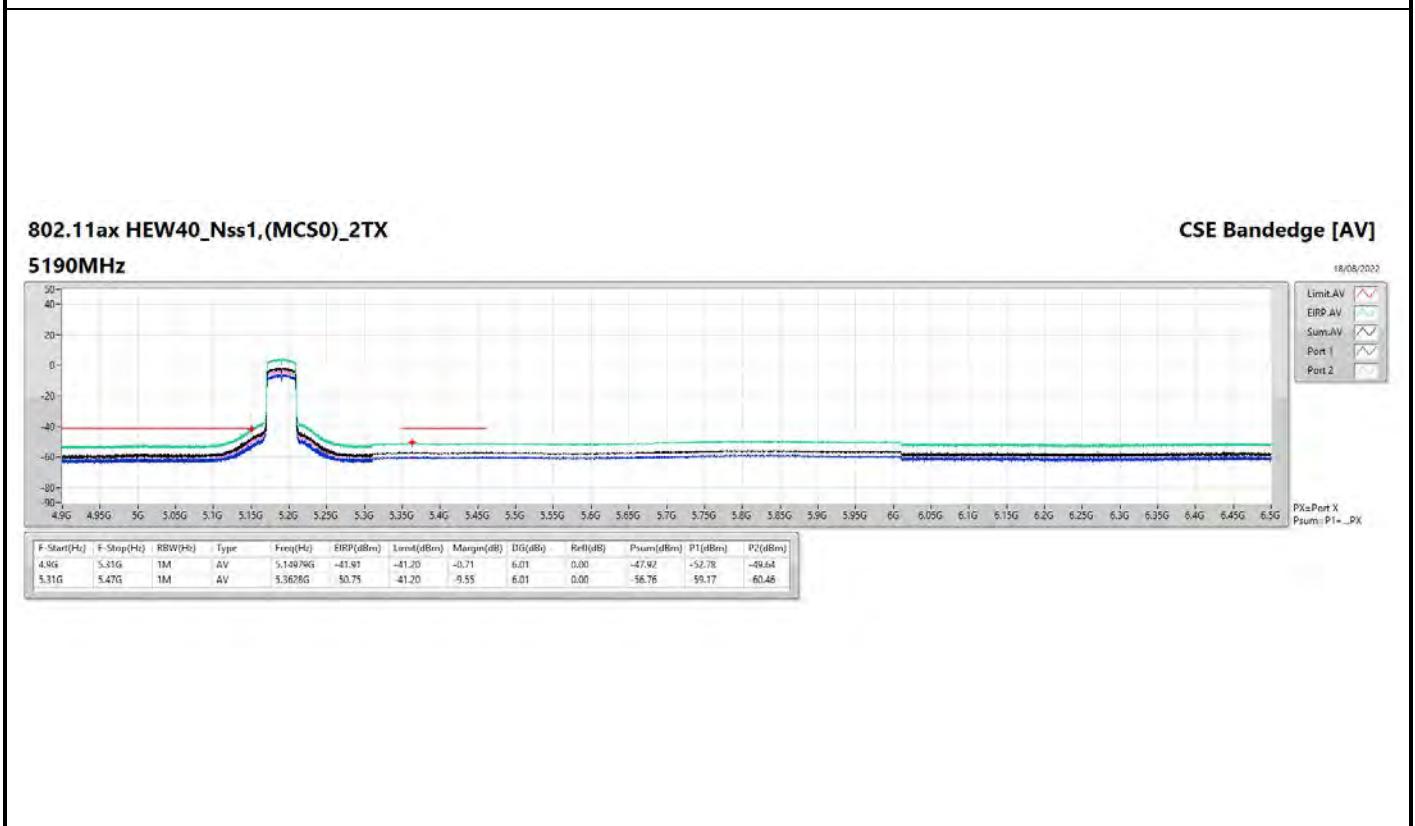
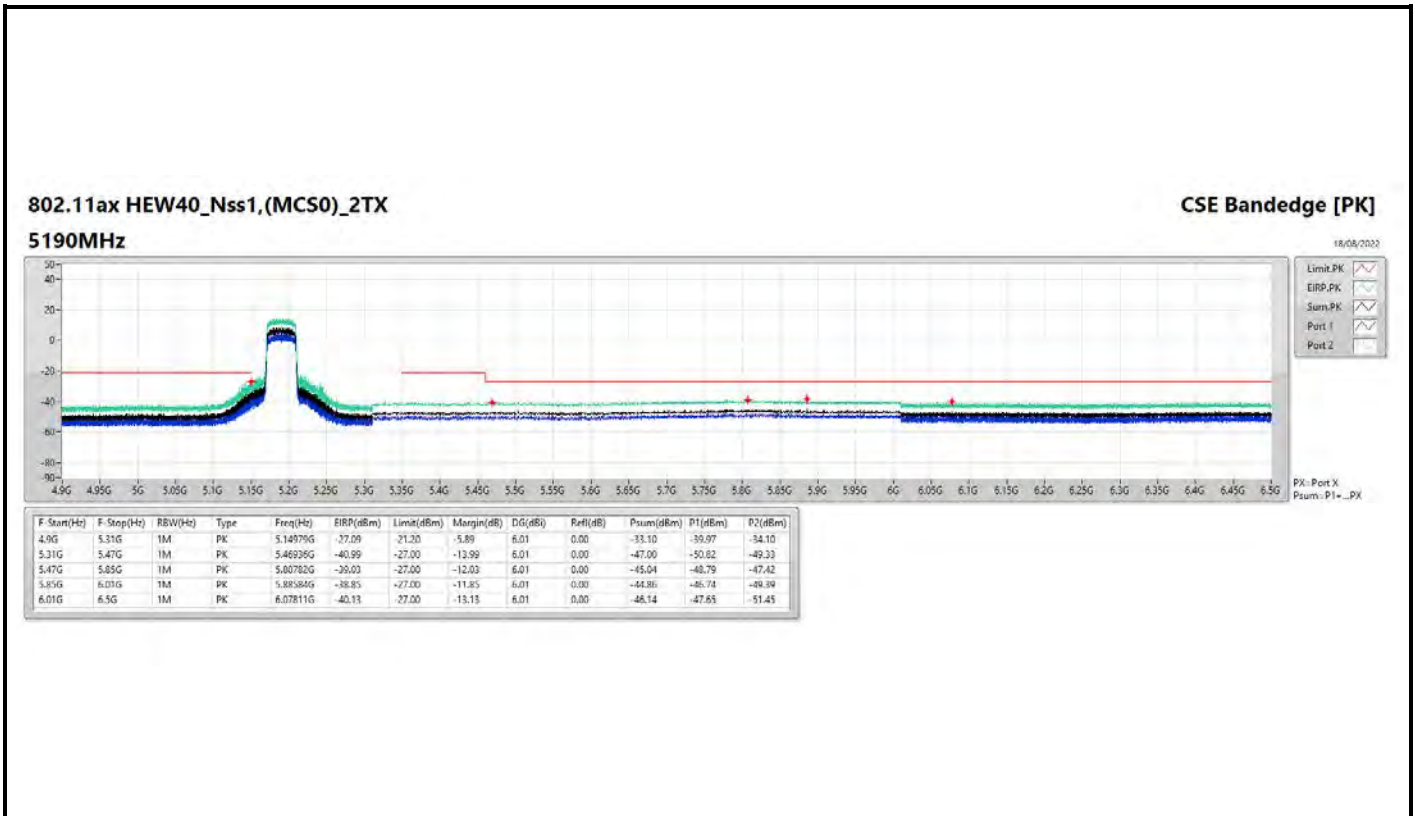


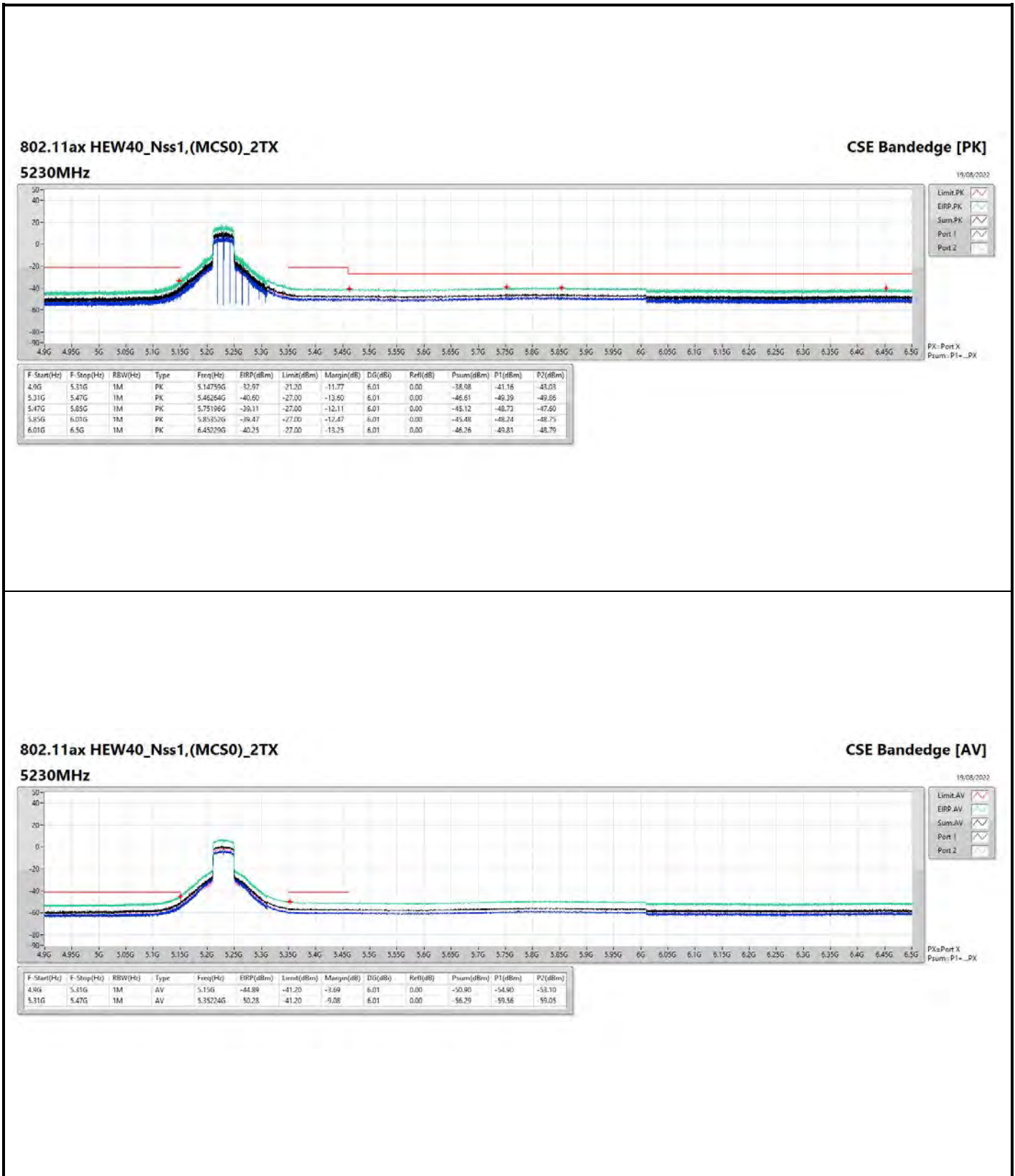


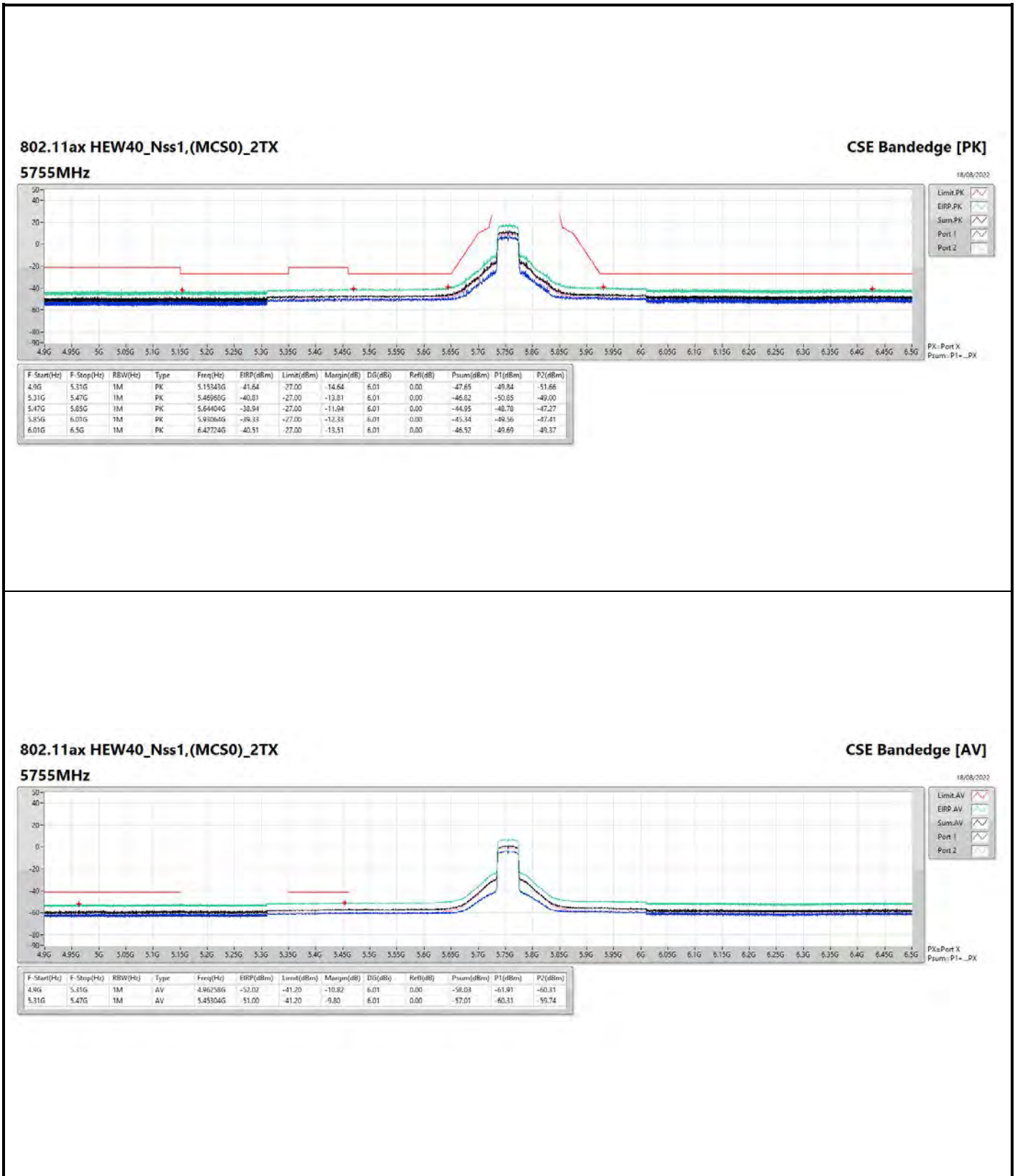


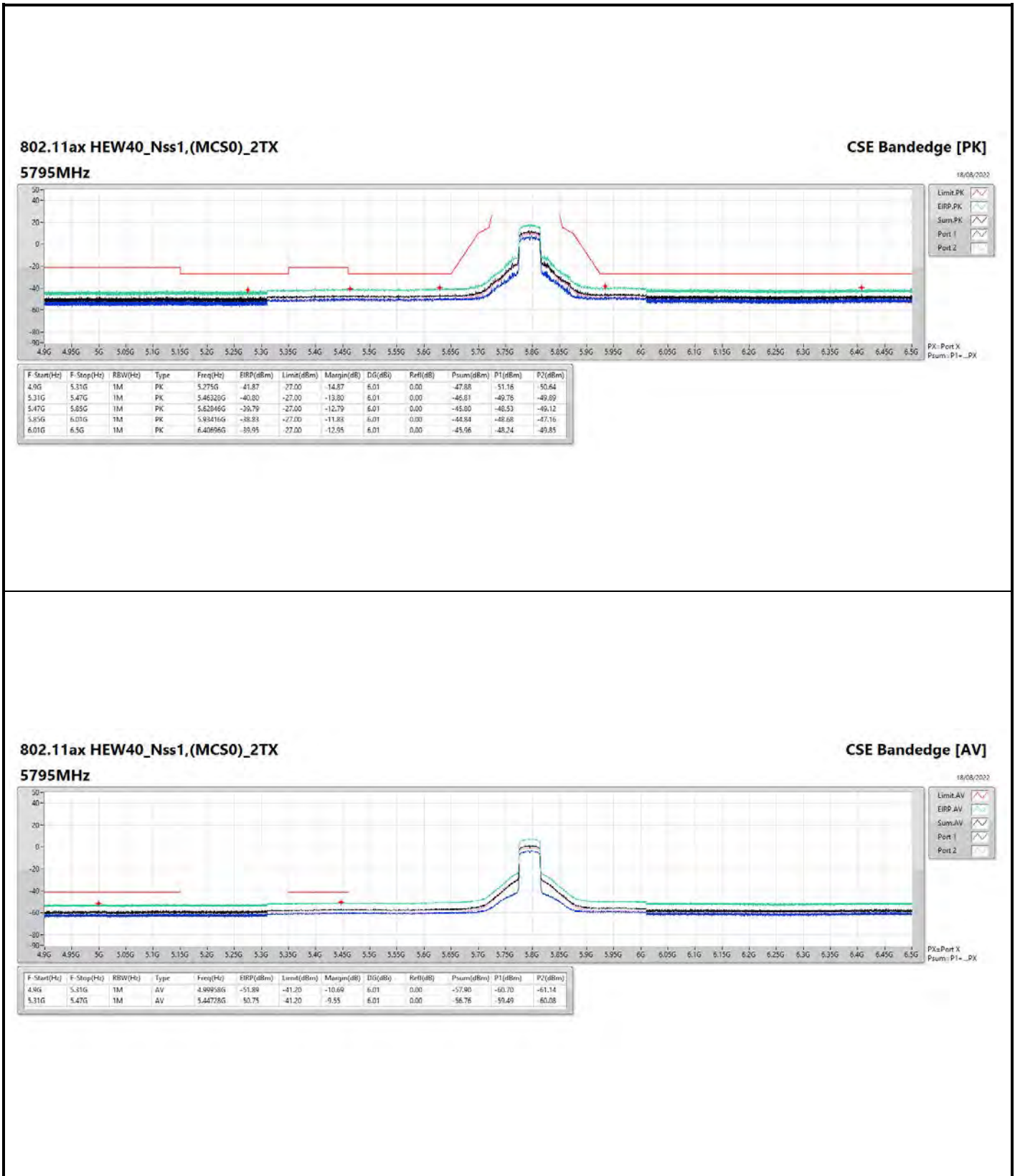










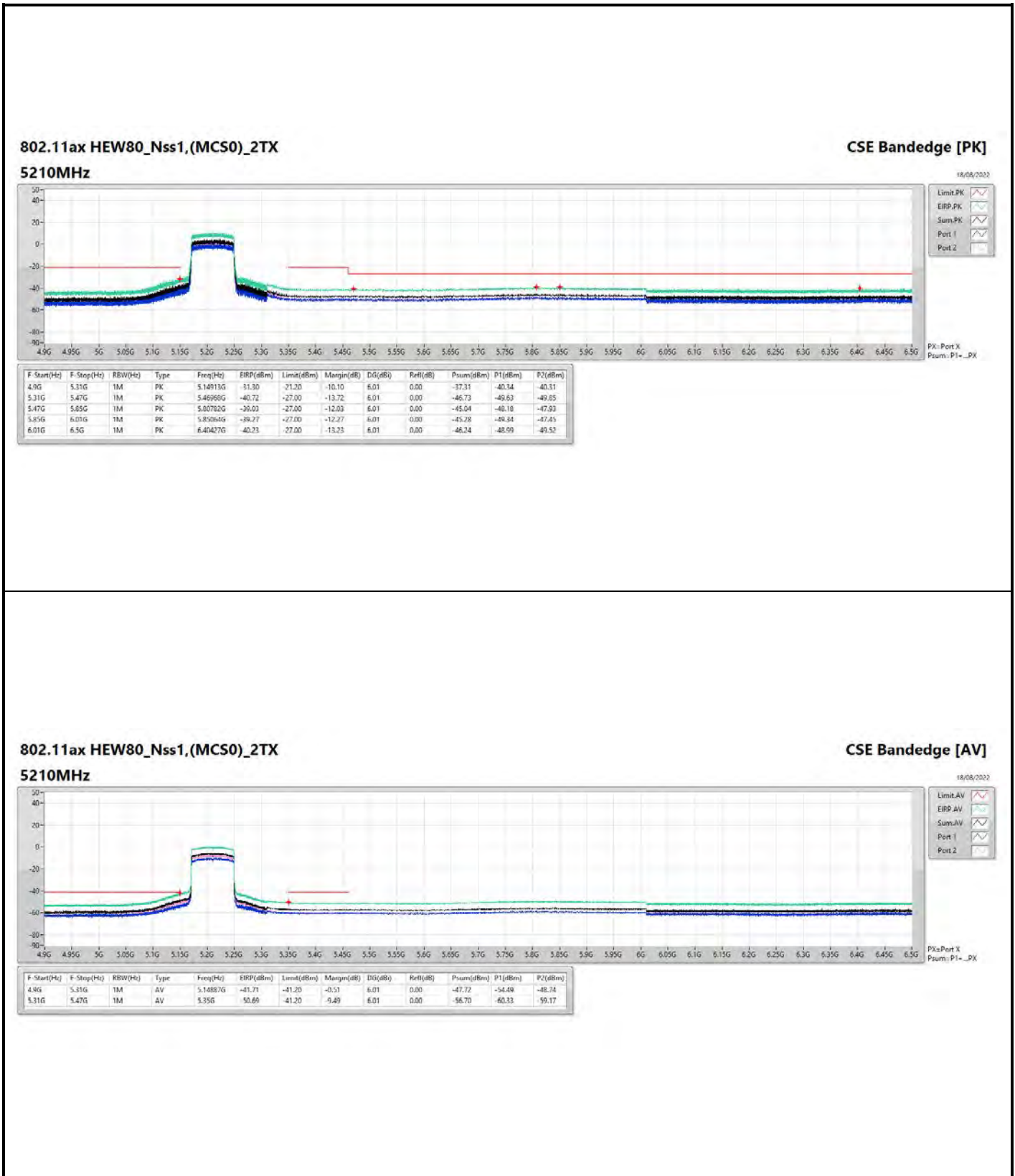


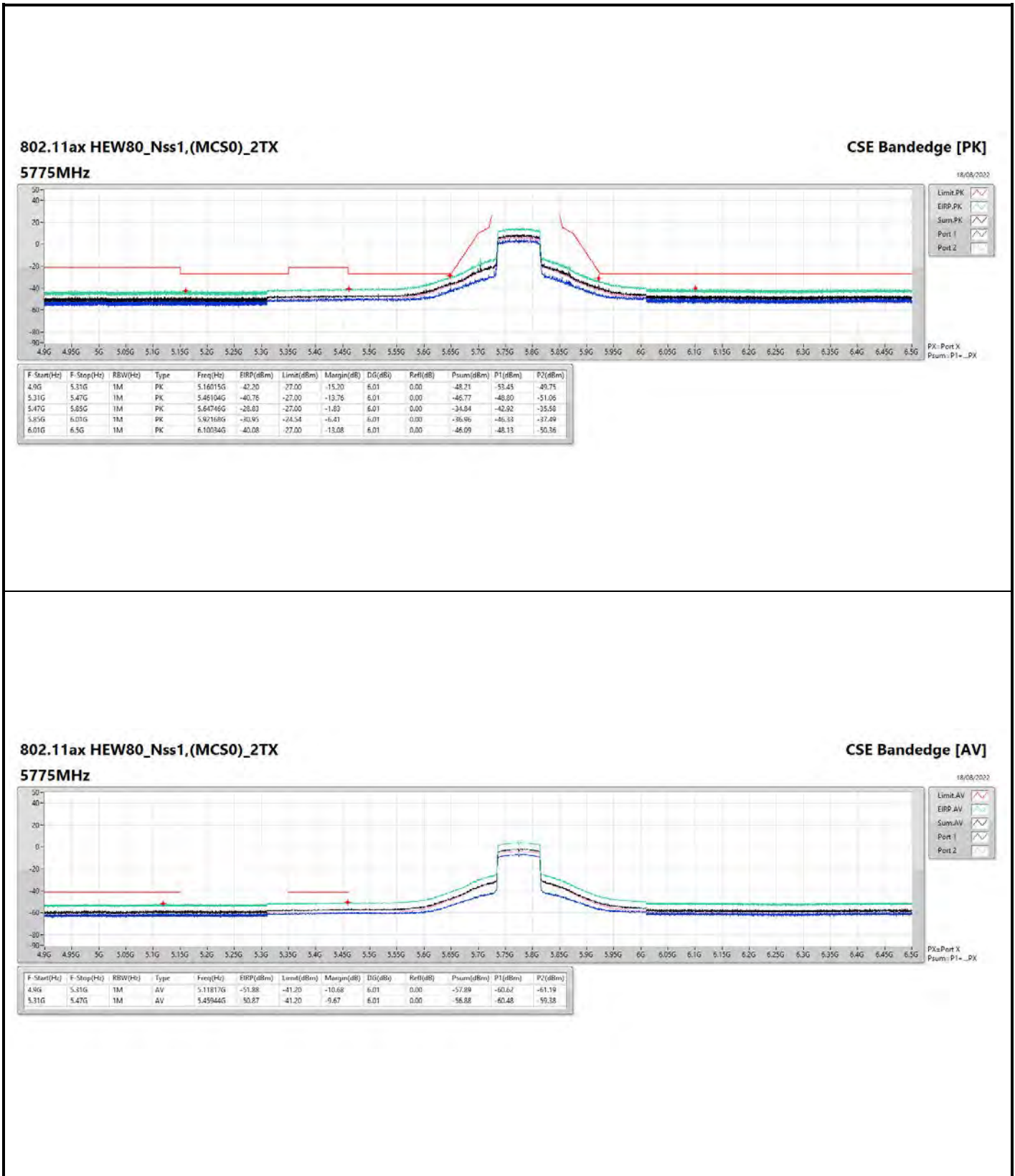
**802.11ax HEW40\_Nss1,(MCS0)\_2TX**

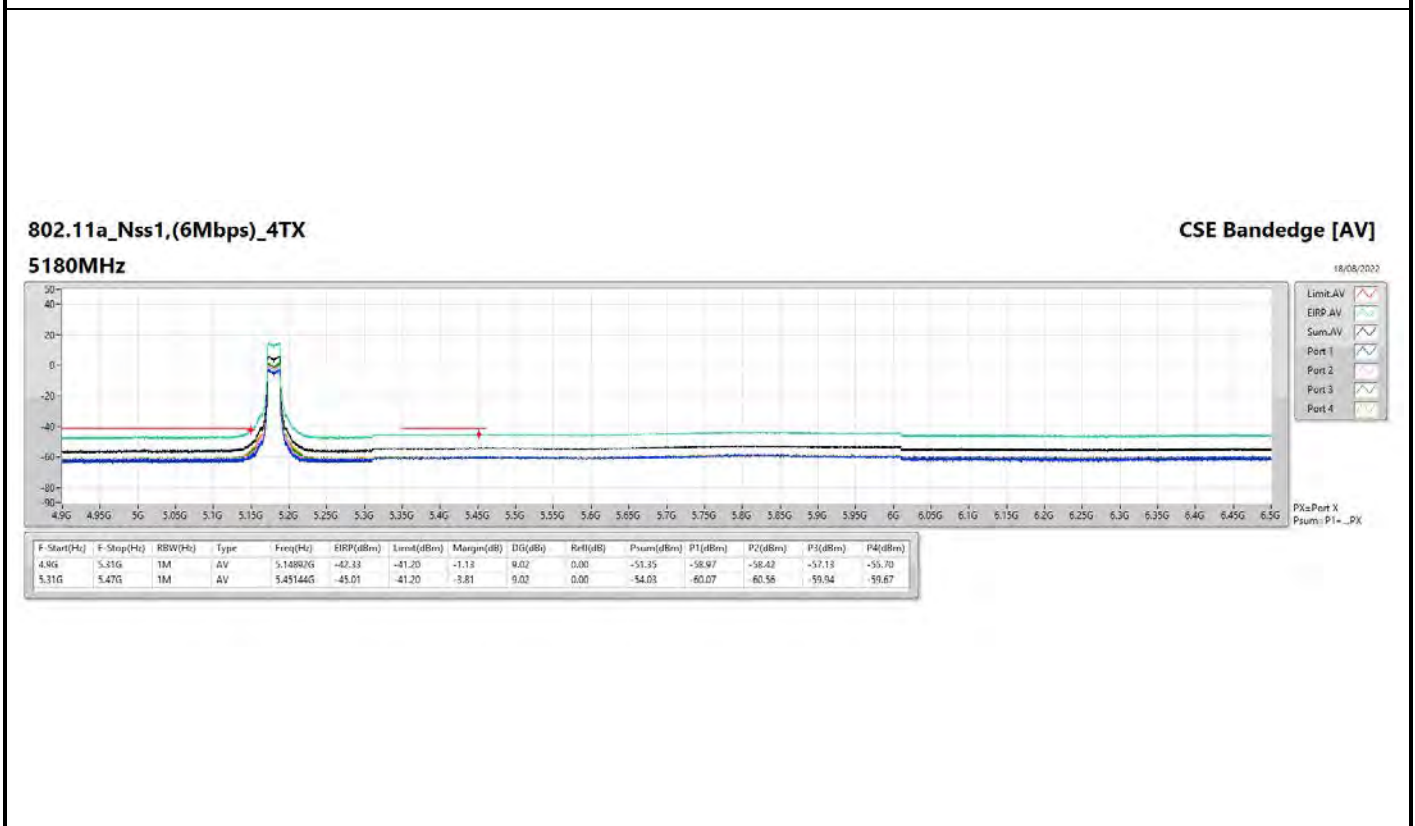
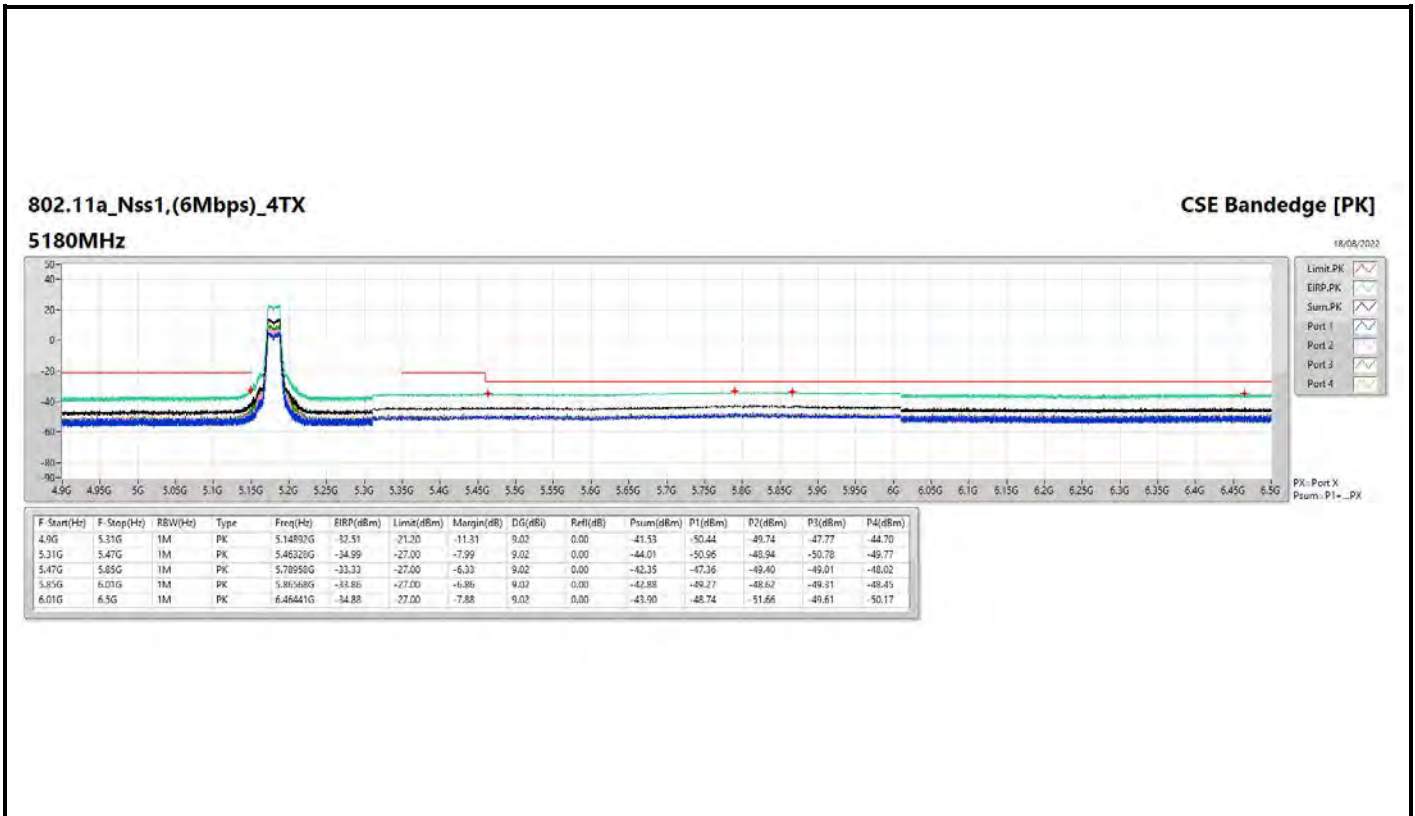
**5795MHz**

**CSE Bandedge [AV]**

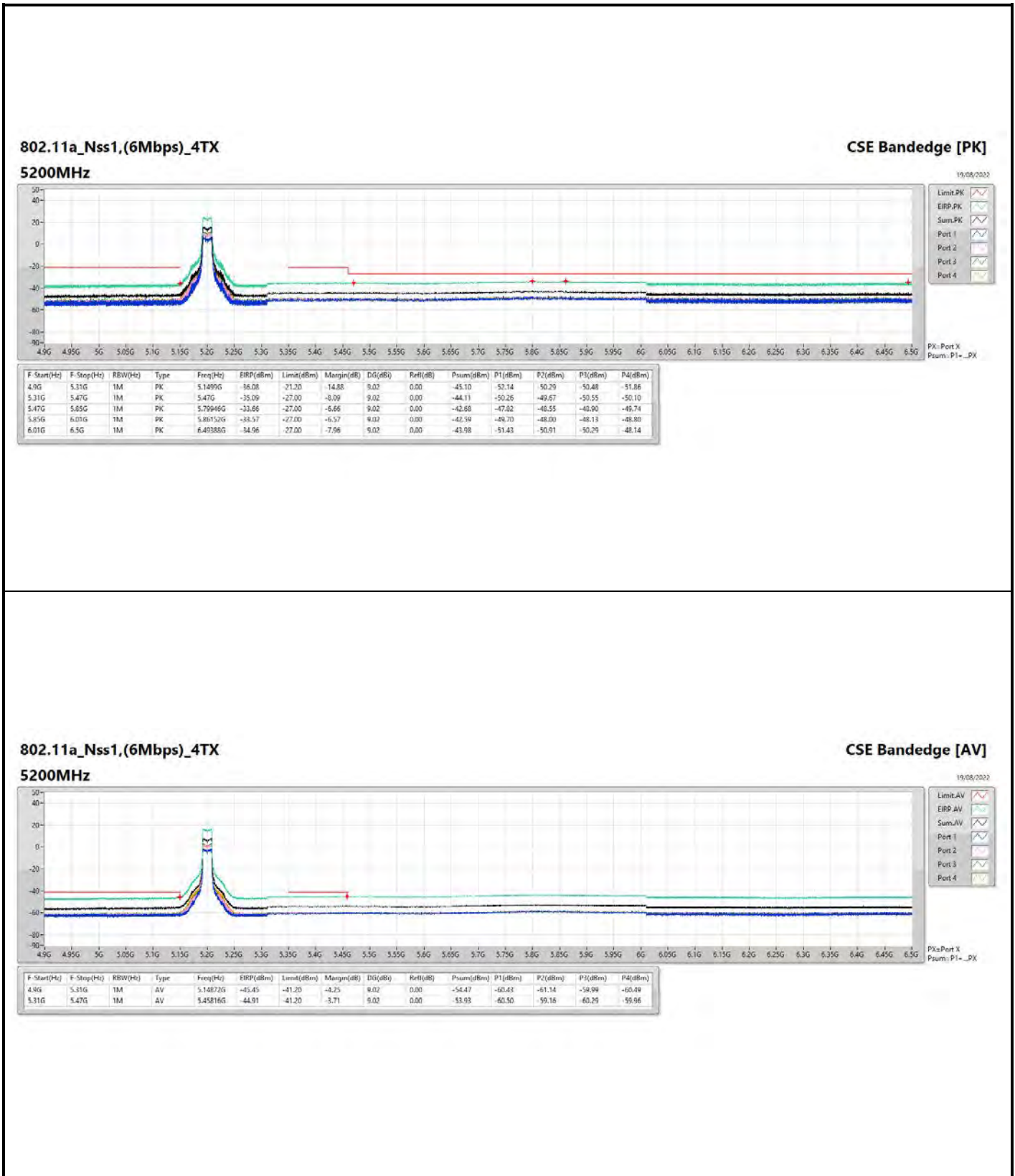
18/08/2022

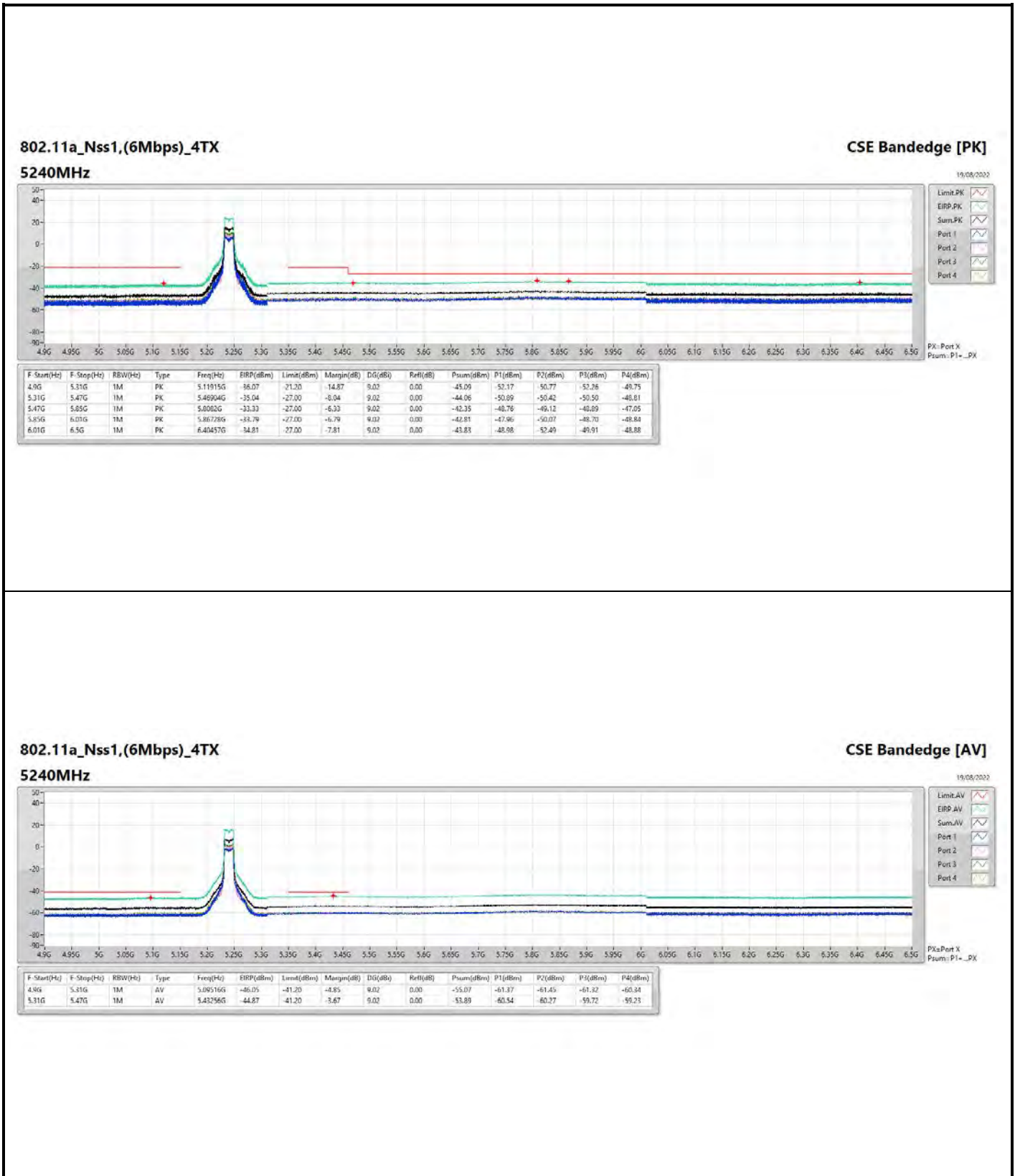


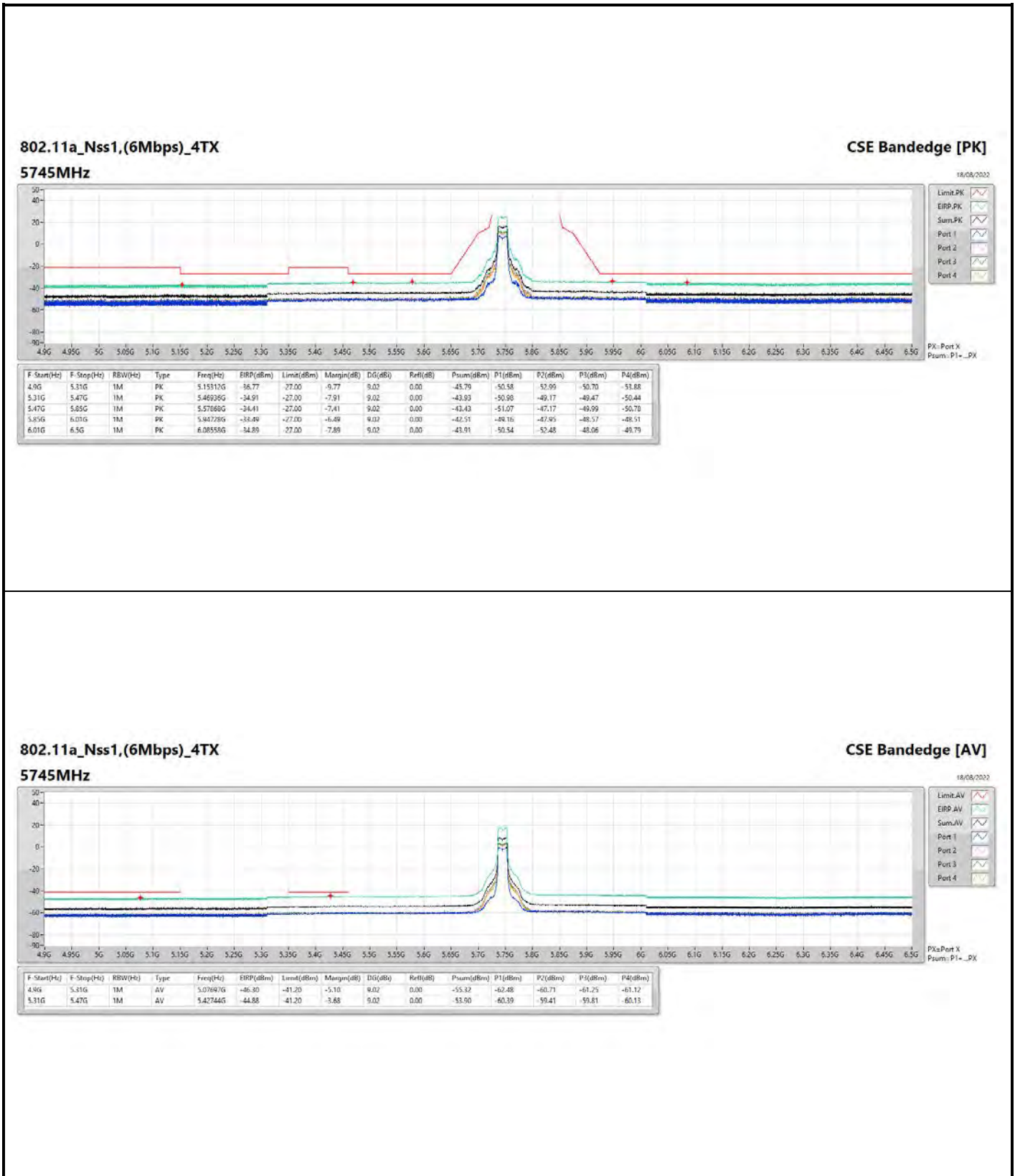








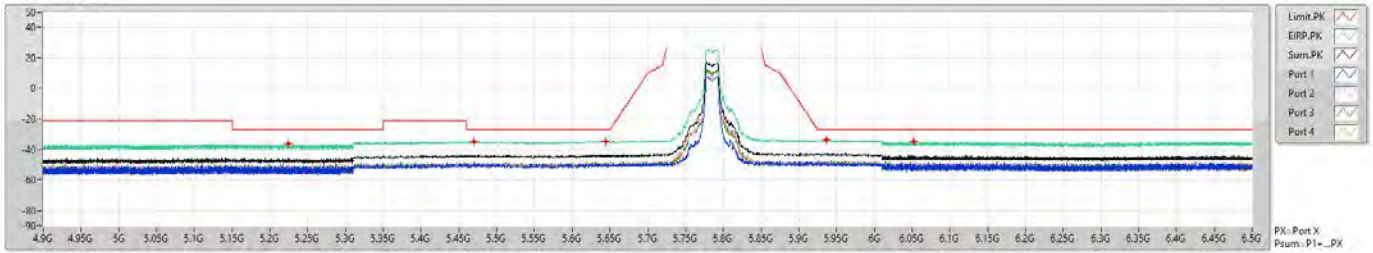




802.11a\_Nss1,(6Mbps)\_4TX  
5785MHz

CSE Bandedge [PK]

18/08/2022

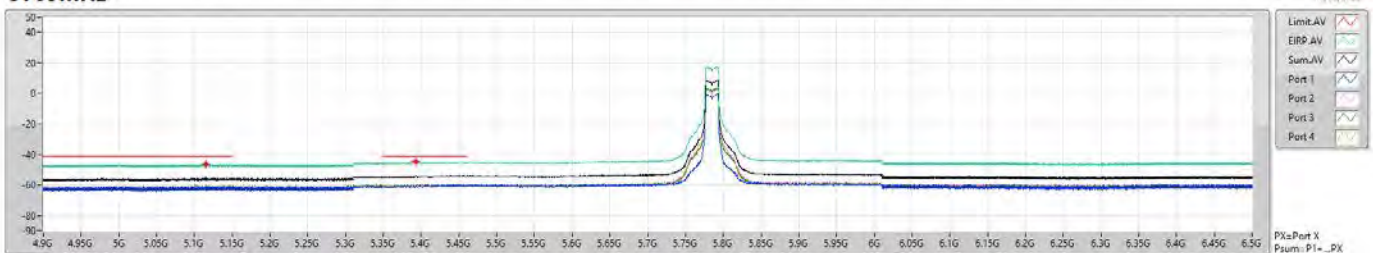


F_Start(Hz)	F_Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.9G	5.31G	1M	PK	5.2238G	-36.48	-27.00	-9.48	9.02	0.00	-45.50	-53.58	-52.53	-50.48	-50.37
5.31G	5.47G	1M	PK	5.47G	-34.86	-27.00	-7.86	9.02	0.00	-43.88	-50.38	-50.56	-48.48	-50.46
5.47G	5.85G	1M	PK	5.64442G	-34.59	-27.00	-7.59	9.02	0.00	-43.61	-50.49	-49.26	-48.72	-50.28
5.85G	6.01G	1M	PK	5.93672G	-34.60	-27.00	-6.60	9.02	0.00	-42.62	-49.18	-48.05	-48.07	-49.44
6.01G	6.5G	1M	PK	6.05785G	-34.91	-27.00	-7.91	9.02	0.00	-43.93	-50.93	-48.01	-50.42	-51.27

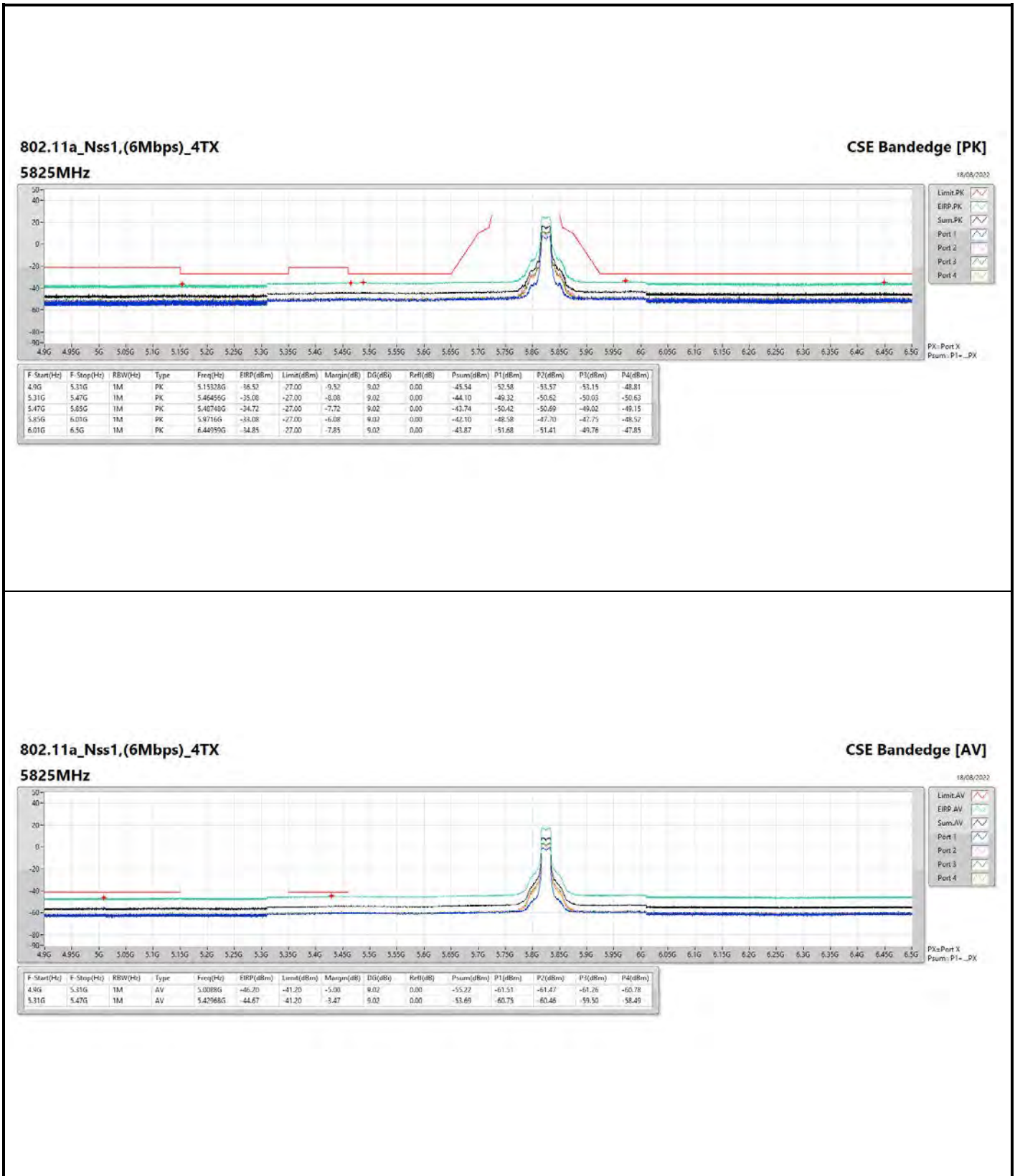
802.11a\_Nss1,(6Mbps)\_4TX  
5785MHz

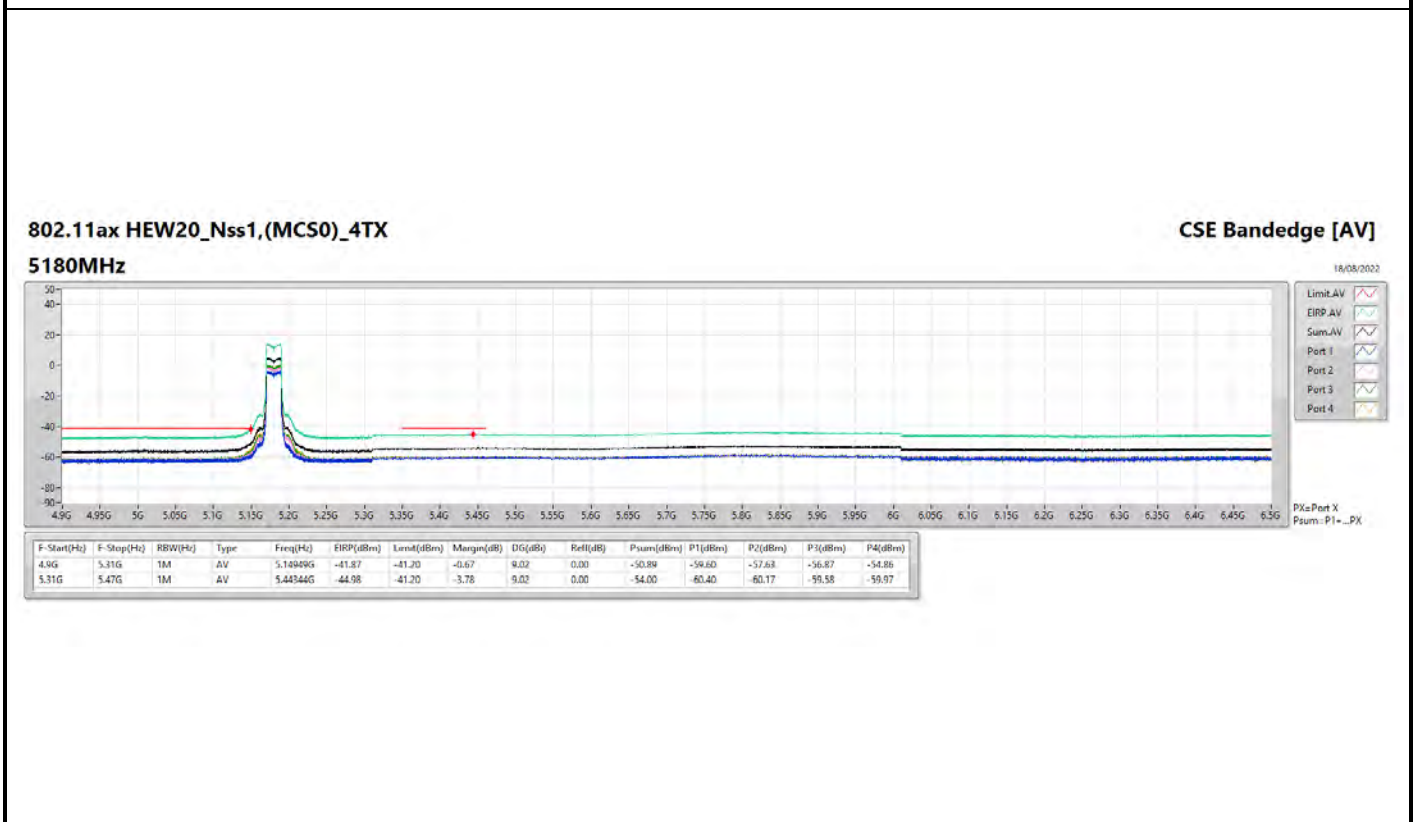
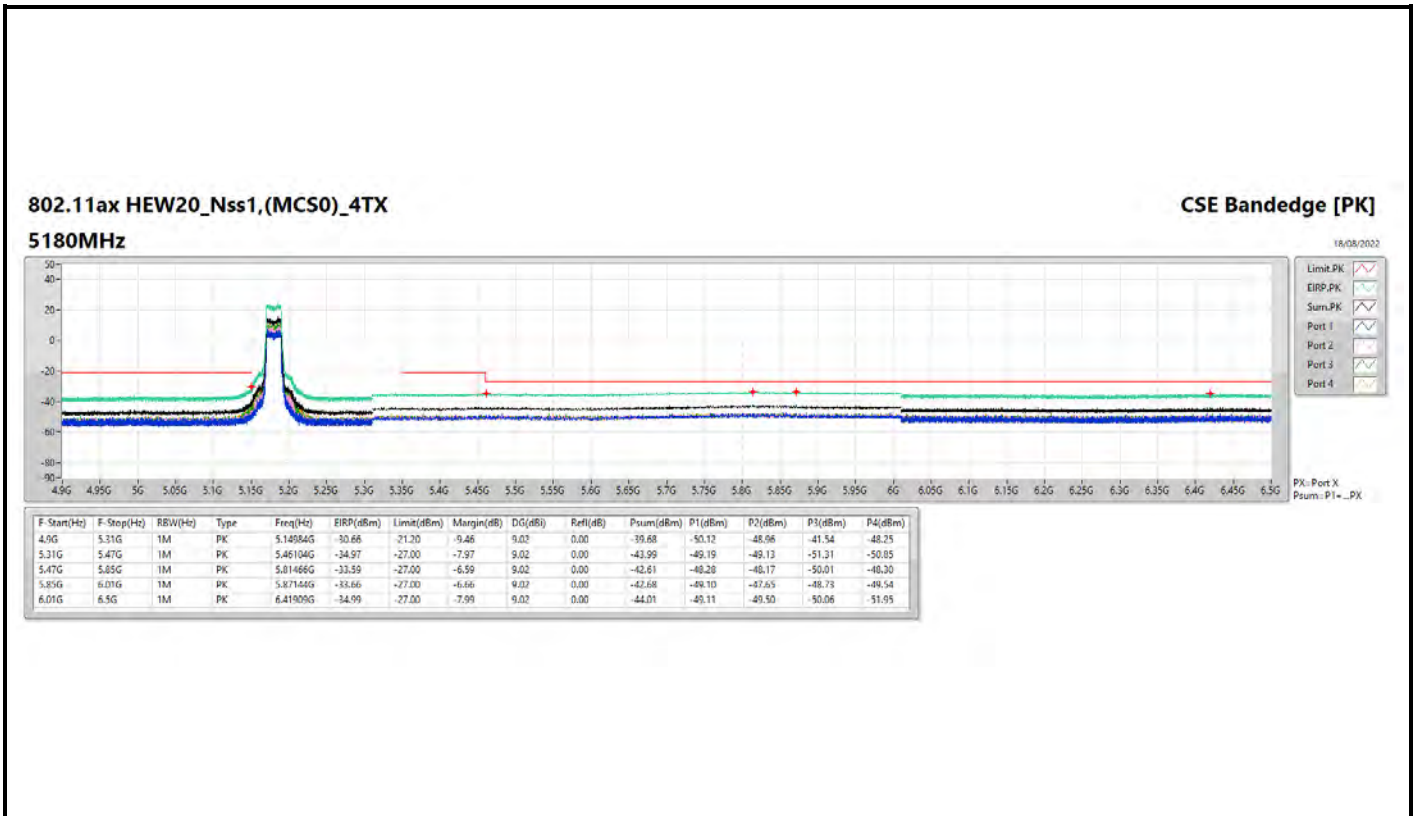
CSE Bandedge [AV]

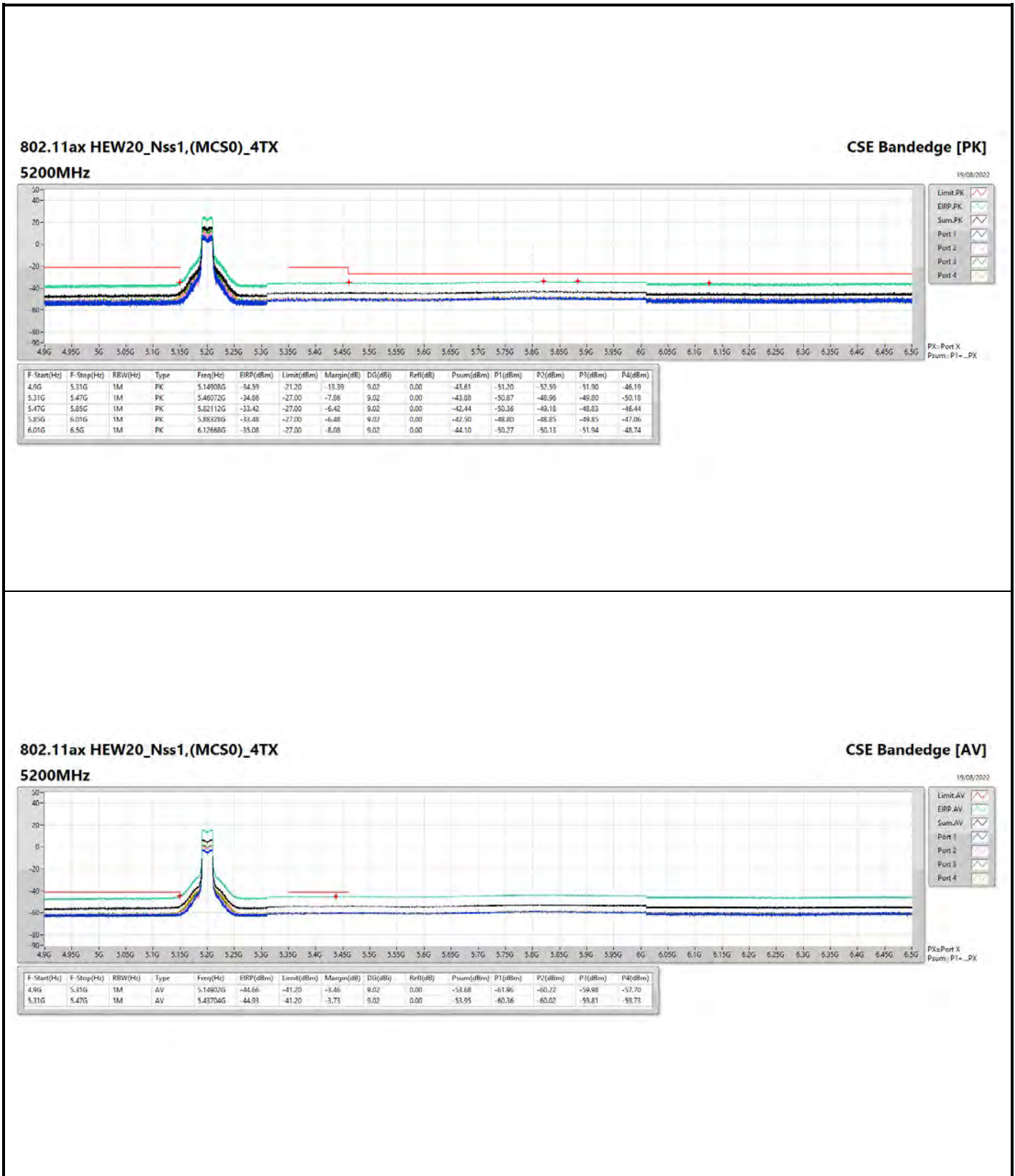
18/08/2022



F_Start(Hz)	F_Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.9G	5.31G	1M	AV	5.11546G	-46.01	-41.20	-4.81	9.02	0.00	-55.03	-61.05	-62.99	-60.01	-60.67
5.31G	5.47G	1M	AV	5.39288G	-44.88	-41.20	-3.68	9.02	0.00	-53.90	-60.21	-59.55	-59.58	-60.41



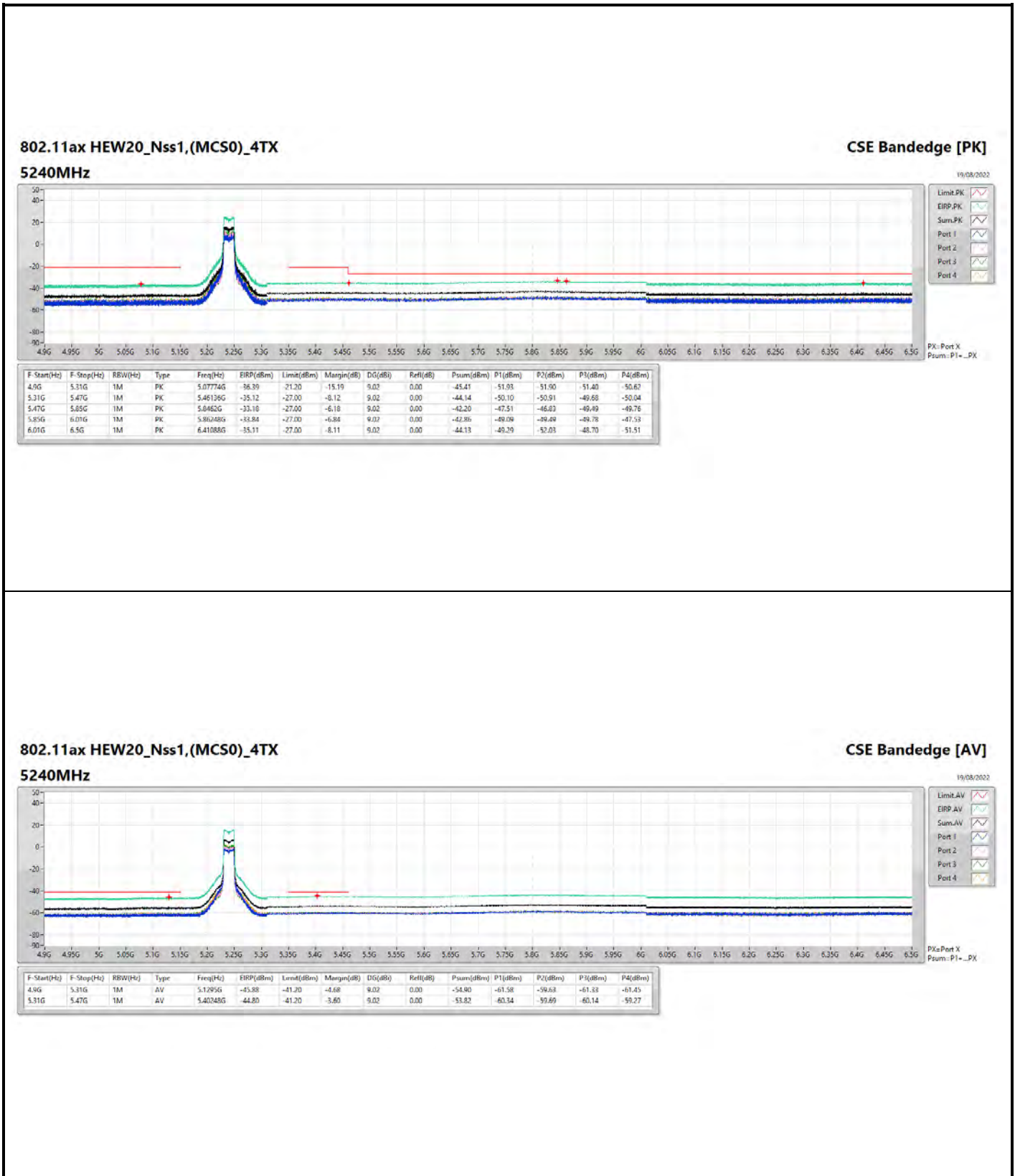




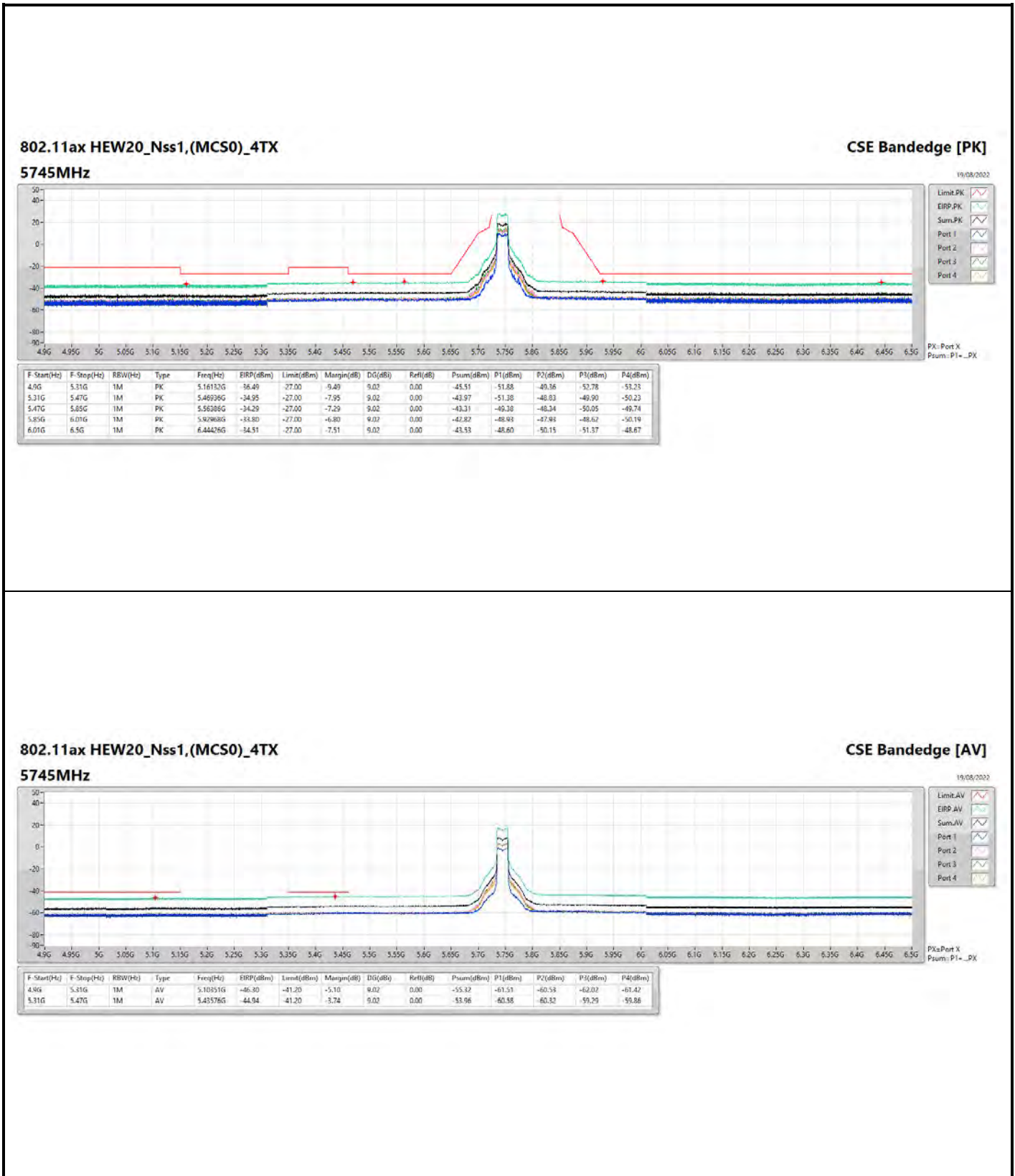
802.11ax HEW20\_Nss1,(MCS0)\_4TX  
5200MHz

CSE Bandedge [AV]

19/08/2022





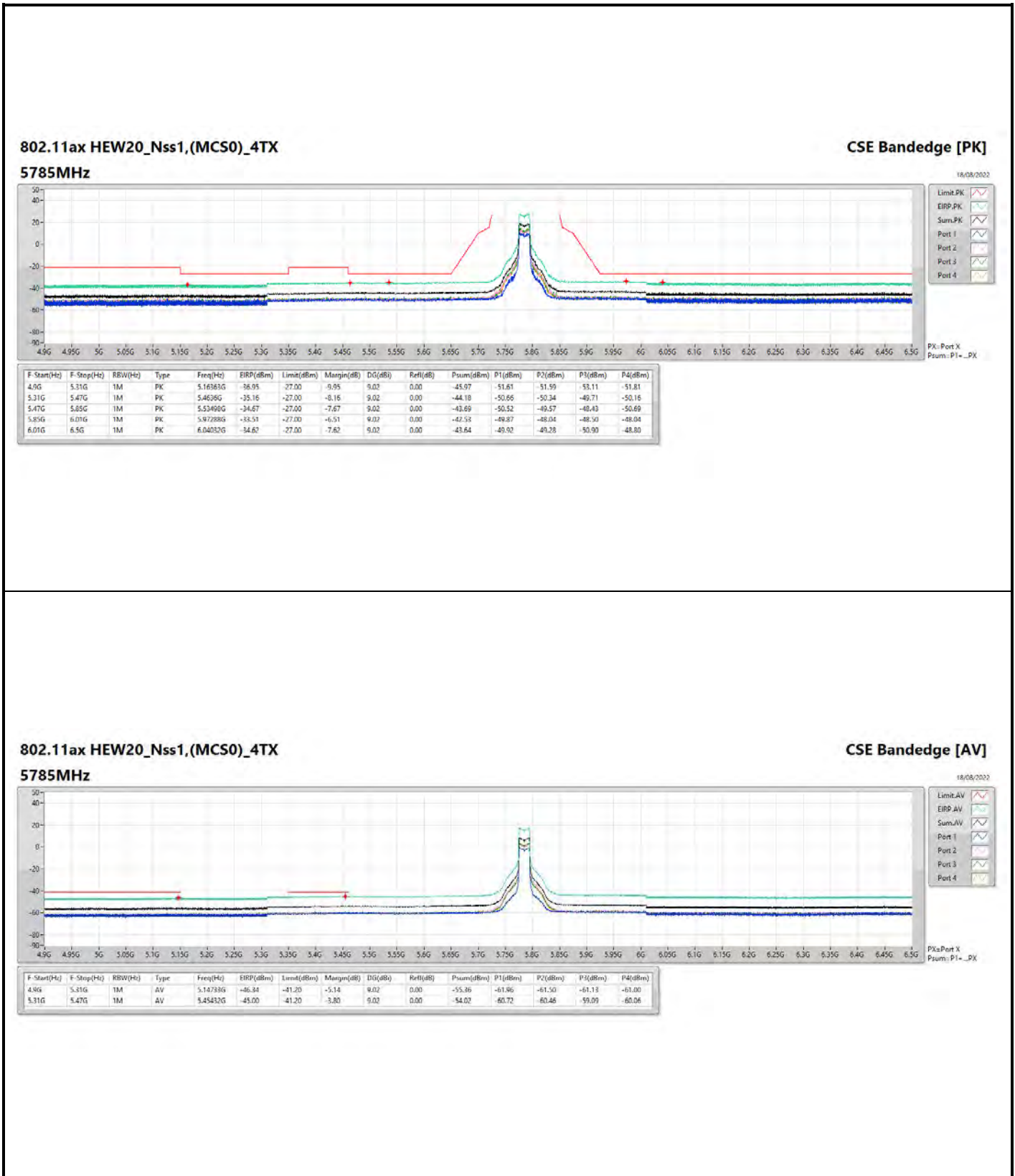


**802.11ax HEW20\_Nss1,(MCS0)\_4TX**

**5745MHz**

**CSE Bandedge [AV]**

19/08/2022



**802.11ax HEW20\_Nss1,(MCS0)\_4TX**

**5785MHz**

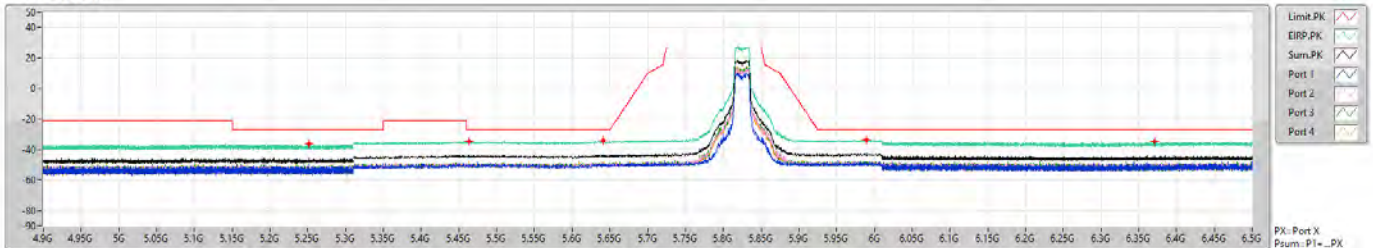
**CSE Bandedge [AV]**

18/08/2022

802.11ax HEW20\_Nss1,(MCS0)\_4TX  
5825MHz

CSE Bandedge [PK]

19/08/2022

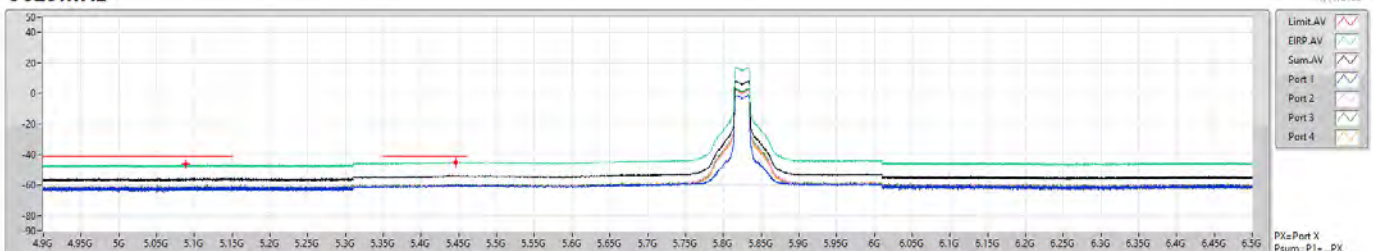


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.9G	5.31G	1M	PK	5.25147G	-36.62	-27.00	-9.62	9.02	0.00	-45.64	-50.02	-53.06	-51.48	-52.08
5.31G	5.47G	1M	PK	5.46328G	-34.59	-27.00	-7.59	9.02	0.00	-43.61	-50.09	-49.27	-49.39	-49.83
5.47G	5.85G	1M	PK	5.641G	-34.46	-27.00	-7.46	9.02	0.00	-43.48	-51.07	-47.71	-50.24	-49.74
5.85G	6.01G	1M	PK	5.98984G	-34.54	-27.00	-7.54	9.02	0.00	-42.56	-48.90	-48.95	-48.19	-48.35
6.01G	6.5G	1M	PK	6.37095G	-34.79	-27.00	-7.79	9.02	0.00	-43.81	-50.79	-48.38	-51.69	-49.65

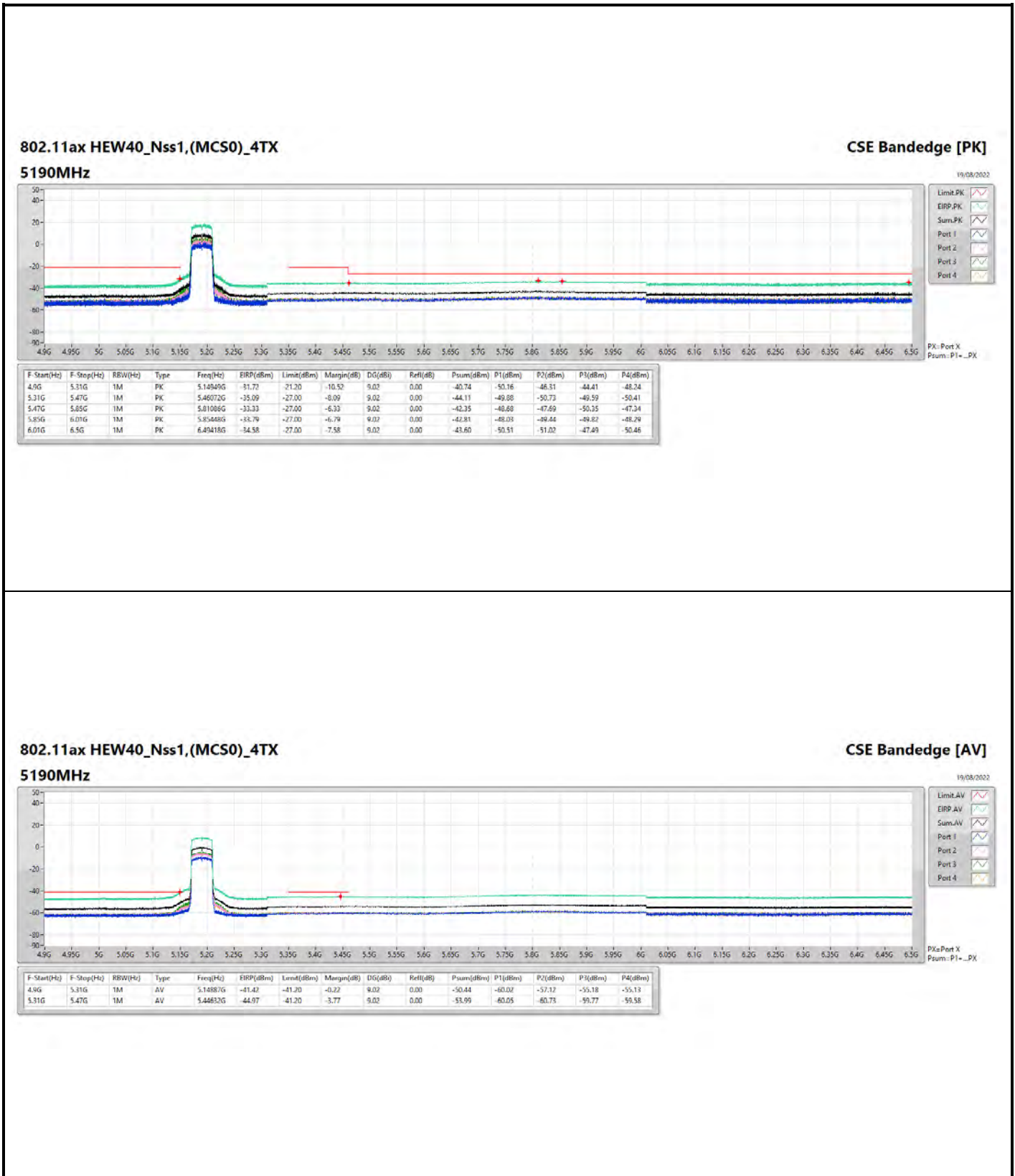
802.11ax HEW20\_Nss1,(MCS0)\_4TX  
5825MHz

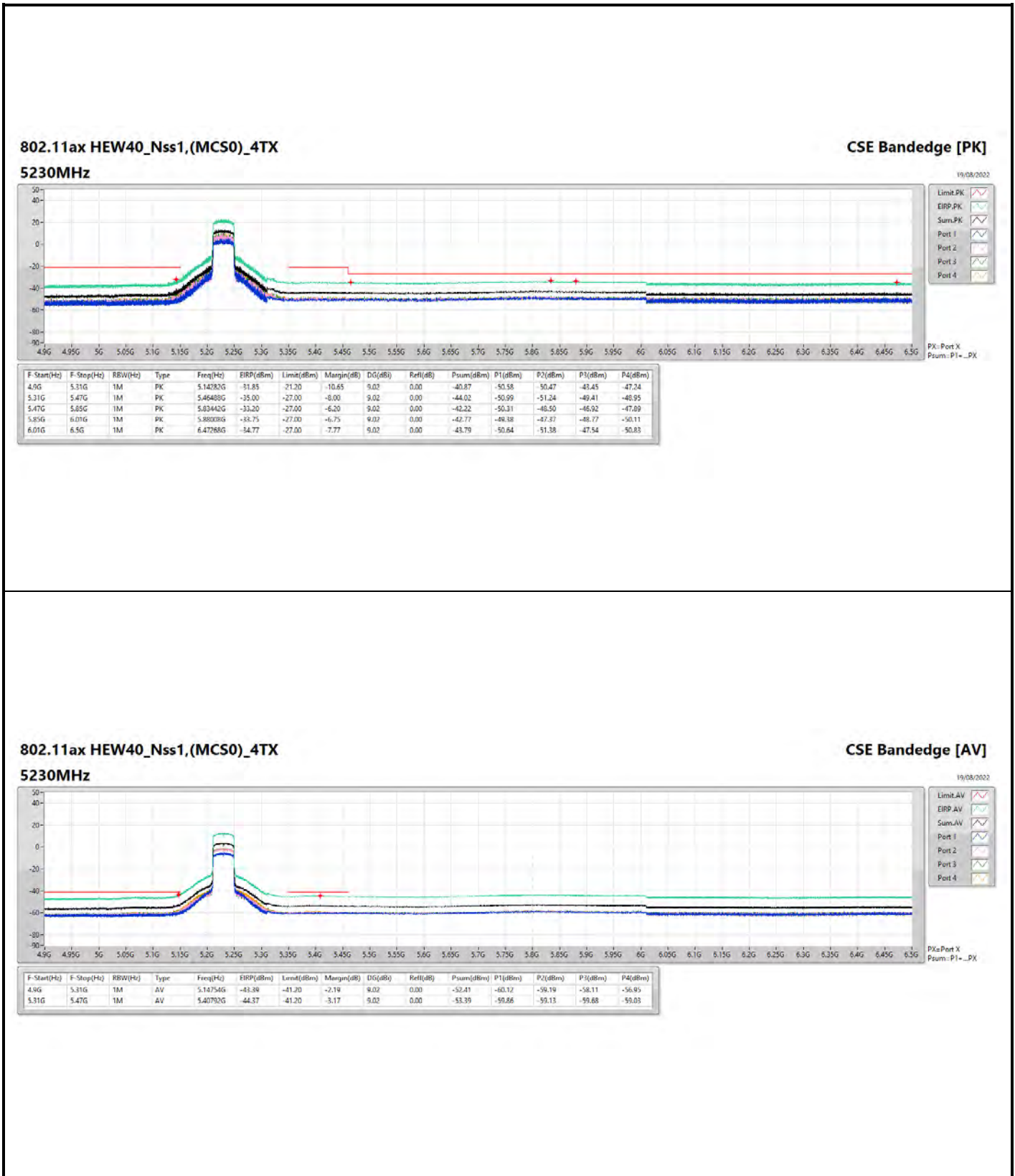
CSE Bandedge [AV]

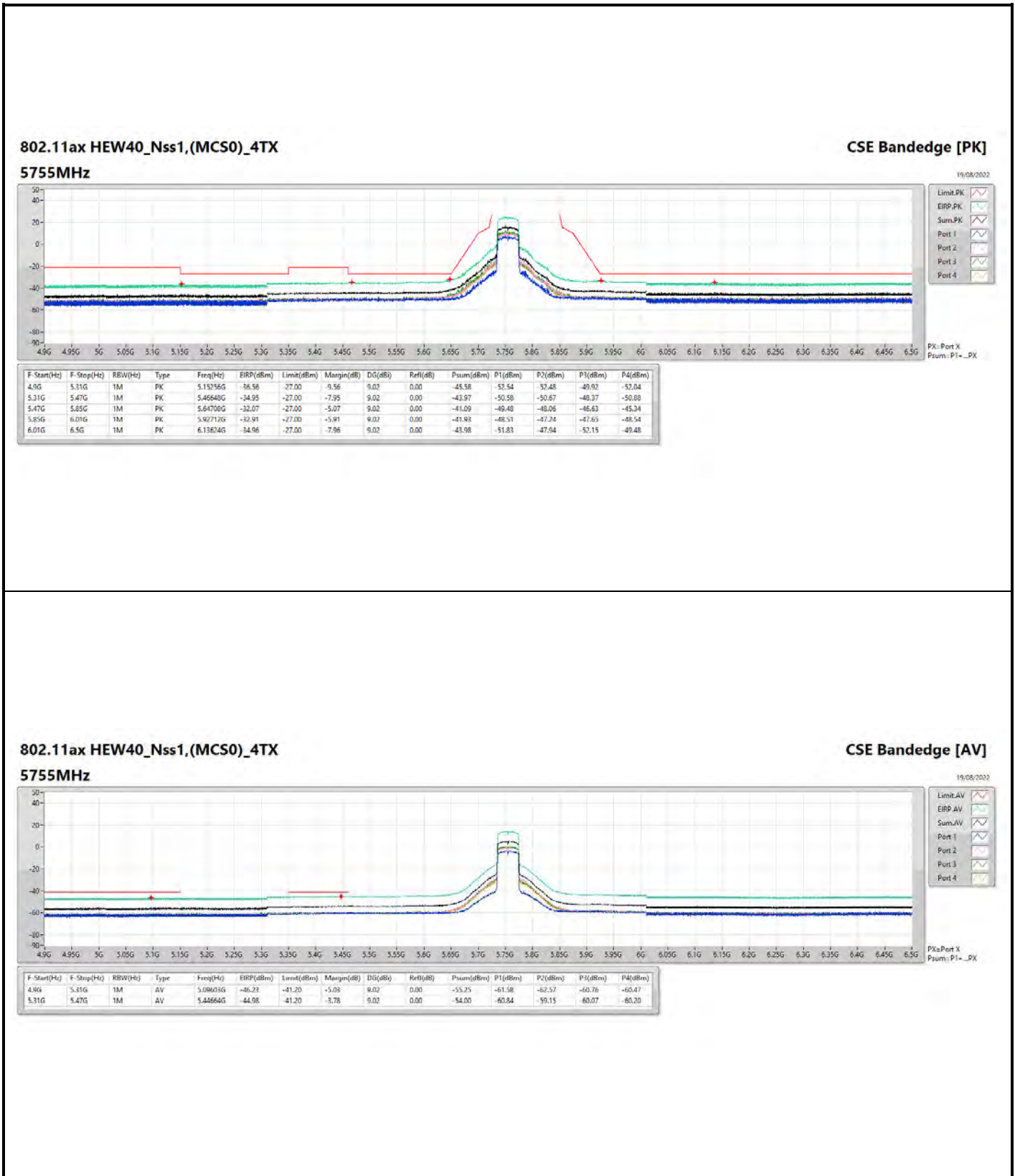
19/08/2022

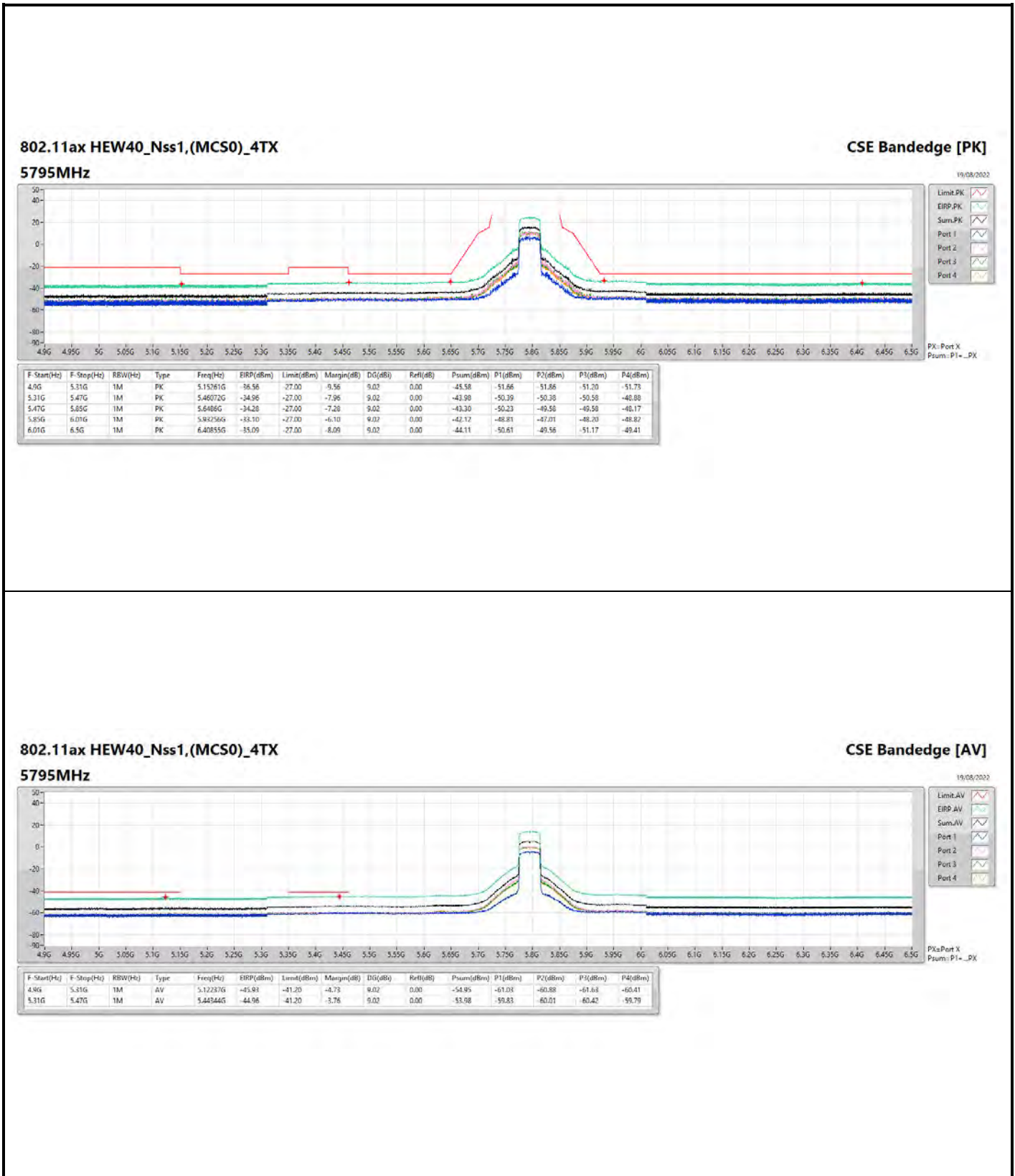


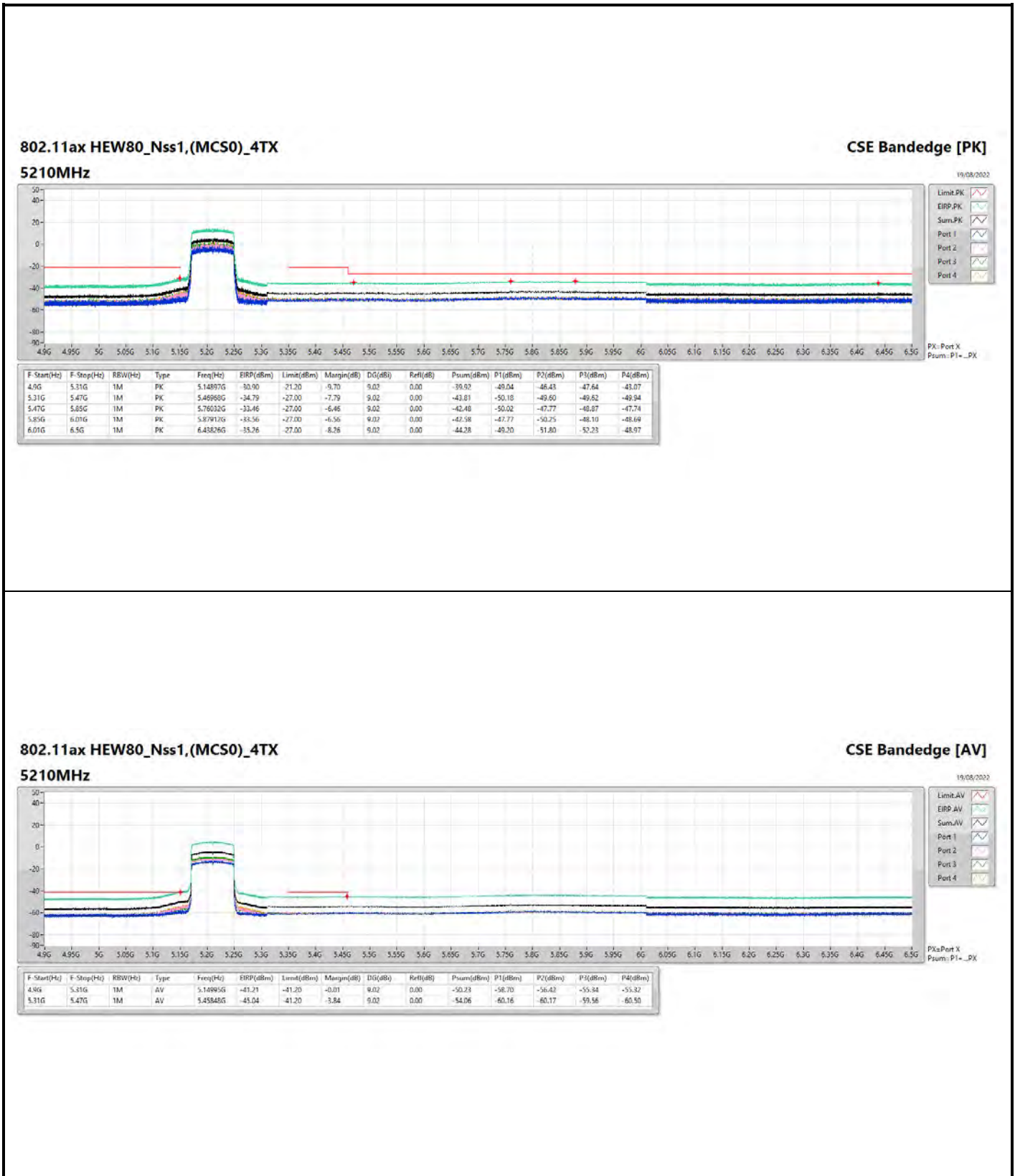
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.9G	5.31G	1M	AV	5.0884G	-36.36	-41.20	-5.16	9.02	0.00	-55.38	-61.83	-60.52	-61.54	-61.84
5.31G	5.47G	1M	AV	5.44832G	-44.91	-41.20	-3.71	9.02	0.00	-53.93	-60.48	-60.41	-59.56	-59.47









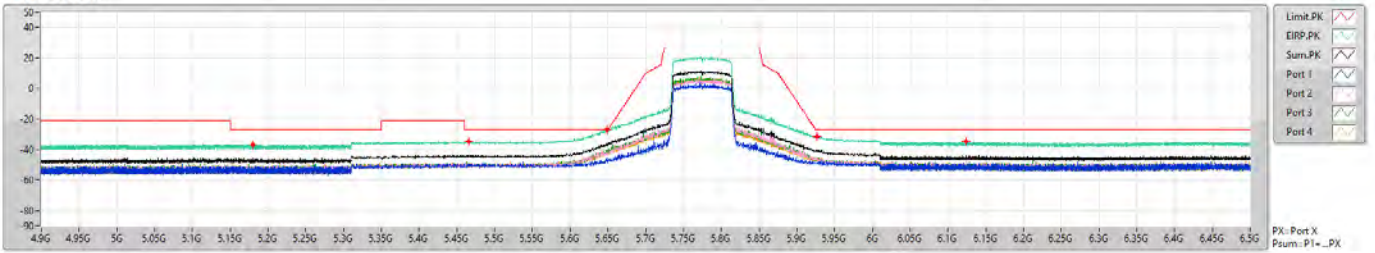




802.11ax HEW80\_Nss1,(MCS0)\_4TX  
5775MHz

CSE Bandedge [PK]

19/08/2022

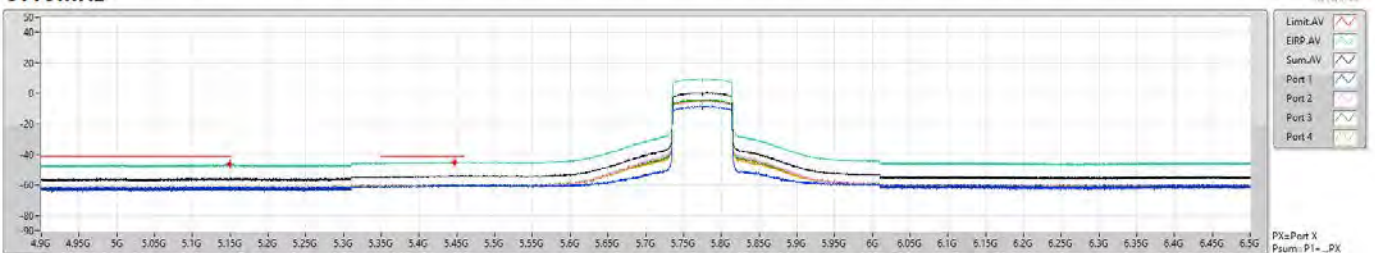


F_Start(Hz)	F_Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.9G	5.31G	1M	PK	5.17967G	-36.71	-27.00	-9.71	9.02	0.00	-45.73	-54.16	-49.99	-53.10	-51.74
5.31G	5.47G	1M	PK	5.4652G	-34.62	-27.00	-7.62	9.02	0.00	-43.64	-49.93	-49.56	-50.59	-48.74
5.47G	5.85G	1M	PK	5.64099G	-27.21	-27.00	-0.21	9.02	0.00	-36.23	-45.59	-41.51	-42.48	-40.79
5.85G	6.01G	1M	PK	5.92712G	-31.41	-27.00	-4.41	9.02	0.00	-40.43	-48.44	-46.09	-46.56	-45.27
6.01G	6.5G	1M	PK	6.12356G	-34.81	-27.00	-7.81	9.02	0.00	-43.83	-50.58	-47.29	-50.88	-52.34

802.11ax HEW80\_Nss1,(MCS0)\_4TX  
5775MHz

CSE Bandedge [AV]

19/08/2022



F_Start(Hz)	F_Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.9G	5.31G	1M	AV	5.14867G	-46.42	-41.20	-5.22	9.02	0.00	-55.45	-61.34	-60.95	-61.66	-62.00
5.31G	5.47G	1M	AV	5.44664G	-44.90	-41.20	-3.70	9.02	0.00	-53.92	-59.85	-60.13	-59.71	-60.07



**CSE\_Pine R2\_Antenna set 10 (Harmonic 1GHz ~ 8GHz)\_P to M Appendix E.14**

**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	1G	5.11G	AV	1.91961G	-48.66	-41.20	-7.46	-67.19			
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	1G	5.11G	AV	1.91961G	-48.56	-41.20	-7.36	-67.09			
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	1G	5.07G	AV	1.91982G	-48.45	-41.20	-7.25	-66.98			
802.11ax HEW80_Nss1,(MCS0)_1TX	Pass	1G	4.99G	AV	1.9197G	-48.79	-41.20	-7.59	-67.32			
802.11a_Nss1,(6Mbps)_2TX	Pass	1G	5.11G	AV	1.91961G	-49.33	-41.20	-8.13	-67.95	-84.71		
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	1G	5.11G	AV	1.92013G	-48.35	-41.20	-7.15	-66.94	-85.27		
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	1G	5.07G	AV	1.91982G	-48.22	-41.20	-7.02	-66.82	-84.80		
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	4.99G	5.15G	AV	5.12568G	-48.84	-41.20	-7.64	-74.64	-68.27		
802.11a_Nss1,(6Mbps)_4TX	Pass	1G	5.11G	AV	1.91961G	-48.44	-41.20	-7.24	-67.14	-86.02	-85.91	-85.73
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	1G	5.11G	AV	5.03345G	-48.39	-41.20	-7.19	-76.33	-72.35	-72.46	-71.87
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	5.07G	5.15G	AV	5.07464G	-47.27	-41.20	-6.07	-75.30	-71.70	-71.48	-70.24
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	4.99G	5.15G	AV	5.12792G	-45.93	-41.20	-4.73	-74.72	-70.38	-69.09	-69.61
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	1G	5.685G	AV	1.92002G	-49.12	-41.20	-7.92	-67.65			
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	1G	5.685G	AV	1.92002G	-48.67	-41.20	-7.47	-67.20			
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	1G	5.645G	AV	1.91971G	-49.52	-41.20	-8.32	-68.05			
802.11ax HEW80_Nss1,(MCS0)_1TX	Pass	5.85G	6.01G	PK	5.92808G	-32.57	-27.00	-5.57	-51.10			
802.11a_Nss1,(6Mbps)_2TX	Pass	1G	5.685G	AV	1.92002G	-48.33	-41.20	-7.13	-66.93	-84.87		
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	1G	5.685G	AV	1.91943G	-49.52	-41.20	-8.32	-68.14	-84.91		
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	1G	5.645G	AV	1.91971G	-48.74	-41.20	-7.54	-67.33	-86.07		
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	5.85G	6.01G	PK	5.92744G	-33.54	-27.00	-6.54	-61.26	-52.63		
802.11a_Nss1,(6Mbps)_4TX	Pass	1G	5.685G	AV	1.92002G	-48.10	-41.20	-6.90	-66.81	-85.35	-85.45	-84.97
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	1G	5.685G	AV	5.36583G	-48.68	-41.20	-7.48	-76.70	-73.28	-72.05	-72.28
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	5.85G	5.93G	PK	5.92504G	-33.60	-27.00	-6.60	-60.91	-58.70	-57.94	-56.27
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	5.85G	6.01G	PK	5.92744G	-32.08	-27.00	-5.08	-62.13	-54.75	-56.47	-56.05

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



## CSE\_Pine R2\_Antenna set 10 (Harmonic 1GHz ~ 8GHz)\_P to M Appendix E.14

### Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-69.81				-69.81	-51.28	-41.20	-10.08
5180MHz	Pass	5.11G	5.15G	AV	5.11368G	18.53	-76.24				-76.24	-57.71	-41.20	-16.51
5180MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.00				-81.00	-62.47	-41.20	-21.27
5180MHz	Pass	5.35G	5.39G	AV	5.37808G	18.53	-76.68				-76.68	-58.15	-41.20	-16.95
5180MHz	Pass	5.39G	8G	AV	5.43698G	18.53	-76.31				-76.31	-57.78	-41.20	-16.58
5180MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-65.72				-65.72	-47.19	-27.00	-20.19
5180MHz	Pass	5.11G	5.15G	PK	5.11056G	18.53	-66.00				-66.00	-47.47	-21.20	-26.27
5180MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-71.03				-71.03	-52.50	-21.20	-31.30
5180MHz	Pass	5.35G	5.39G	PK	5.37392G	18.53	-66.37				-66.37	-47.84	-21.20	-26.64
5180MHz	Pass	5.39G	8G	PK	6.19714G	18.53	-64.41				-64.41	-45.88	-27.00	-18.88
5200MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-68.11				-68.11	-49.58	-41.20	-8.38
5200MHz	Pass	5.11G	5.15G	AV	5.1104G	18.53	-76.29				-76.29	-57.76	-41.20	-16.56
5200MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.41				-81.41	-62.88	-41.20	-21.68
5200MHz	Pass	5.35G	5.39G	AV	5.38312G	18.53	-76.58				-76.58	-58.05	-41.20	-16.85
5200MHz	Pass	5.39G	8G	AV	5.44155G	18.53	-75.94				-75.94	-57.41	-41.20	-16.21
5200MHz	Pass	1G	5.11G	PK	1.27948G	18.53	-65.91				-65.91	-47.38	-27.00	-20.38
5200MHz	Pass	5.11G	5.15G	PK	5.12968G	18.53	-65.13				-65.13	-46.60	-21.20	-25.40
5200MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-71.69				-71.69	-53.16	-21.20	-31.96
5200MHz	Pass	5.35G	5.39G	PK	5.38312G	18.53	-65.79				-65.79	-47.26	-21.20	-26.06
5200MHz	Pass	5.39G	8G	PK	6.00302G	18.53	-65.22				-65.22	-46.69	-27.00	-19.69
5240MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-67.19				-67.19	-48.66	-41.20	-7.46
5240MHz	Pass	5.11G	5.15G	AV	5.11272G	18.53	-75.08				-75.08	-56.55	-41.20	-15.35
5240MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.01				-81.01	-62.48	-41.20	-21.28
5240MHz	Pass	5.35G	5.39G	AV	5.38016G	18.53	-74.92				-74.92	-56.39	-41.20	-15.19
5240MHz	Pass	5.39G	8G	AV	5.40697G	18.53	-75.46				-75.46	-56.93	-41.20	-15.73
5240MHz	Pass	1G	5.11G	PK	1.27948G	18.53	-66.13				-66.13	-47.60	-27.00	-20.60
5240MHz	Pass	5.11G	5.15G	PK	5.11112G	18.53	-64.59				-64.59	-46.06	-21.20	-24.86
5240MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-70.04				-70.04	-51.51	-21.20	-30.31
5240MHz	Pass	5.35G	5.39G	PK	5.3872G	18.53	-64.65				-64.65	-46.12	-21.20	-24.92
5240MHz	Pass	5.39G	8G	PK	5.75834G	18.53	-64.47				-64.47	-45.94	-27.00	-18.94
5745MHz	Pass	1G	5.685G	AV	1.92002G	18.53	-69.03				-69.03	-50.50	-41.20	-9.30
5745MHz	Pass	5.89G	8G	AV	7.2979G	18.53	-81.91				-81.91	-63.38	-41.20	-22.18
5745MHz	Pass	1G	5.685G	PK	1.27993G	18.53	-65.05				-65.05	-46.52	-27.00	-19.52
5745MHz	Pass	5.685G	5.725G	PK	5.68532G	18.53	-69.72				-69.72	-51.19	-0.86	-50.33
5745MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.68				-69.68	-51.15	27.00	-78.15
5745MHz	Pass	5.85G	5.89G	PK	5.88928G	18.53	-62.35				-62.35	-43.82	-0.57	-43.25
5745MHz	Pass	5.89G	8G	PK	5.93405G	18.53	-62.19				-62.19	-43.66	-27.00	-16.66
5785MHz	Pass	1G	5.685G	AV	1.91943G	18.53	-68.54				-68.54	-50.01	-41.20	-8.81
5785MHz	Pass	5.89G	8G	AV	7.36858G	18.53	-81.53				-81.53	-63.00	-41.20	-21.80
5785MHz	Pass	1G	5.685G	PK	1.27993G	18.53	-64.71				-64.71	-46.18	-27.00	-19.18
5785MHz	Pass	5.685G	5.725G	PK	5.685G	18.53	-68.96				-68.96	-50.43	-1.10	-49.33
5785MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.83				-69.83	-51.30	27.00	-78.30
5785MHz	Pass	5.85G	5.89G	PK	5.88976G	18.53	-63.49				-63.49	-44.96	-0.92	-44.04
5785MHz	Pass	5.89G	8G	PK	5.93616G	18.53	-62.04				-62.04	-43.51	-27.00	-16.51
5825MHz	Pass	1G	5.685G	AV	1.92002G	18.53	-67.65				-67.65	-49.12	-41.20	-7.92
5825MHz	Pass	5.89G	8G	AV	7.28181G	18.53	-81.74				-81.74	-63.21	-41.20	-22.01
5825MHz	Pass	1G	5.685G	PK	1.27993G	18.53	-65.57				-65.57	-47.04	-27.00	-20.04
5825MHz	Pass	5.685G	5.725G	PK	5.68548G	18.53	-68.77				-68.77	-50.24	-0.74	-49.50
5825MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-68.57				-68.57	-50.04	27.00	-77.04
5825MHz	Pass	5.85G	5.89G	PK	5.88992G	18.53	-64.04				-64.04	-45.51	-1.04	-44.47
5825MHz	Pass	5.89G	8G	PK	5.98601G	18.53	-60.53				-60.53	-42.00	-27.00	-15.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-67.64				-67.64	-49.11	-41.20	-7.91
5180MHz	Pass	5.11G	5.15G	AV	5.11152G	18.53	-76.16				-76.16	-57.63	-41.20	-16.43
5180MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.15				-81.15	-62.62	-41.20	-21.42
5180MHz	Pass	5.35G	5.39G	AV	5.38856G	18.53	-76.74				-76.74	-58.21	-41.20	-17.01
5180MHz	Pass	5.39G	8G	AV	5.44351G	18.53	-76.37				-76.37	-57.84	-41.20	-16.64
5180MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-68.04				-68.04	-49.51	-27.00	-22.51
5180MHz	Pass	5.11G	5.15G	PK	5.11856G	18.53	-65.64				-65.64	-47.11	-21.20	-25.91
5180MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-71.02				-71.02	-52.49	-21.20	-31.29
5180MHz	Pass	5.35G	5.39G	PK	5.37992G	18.53	-65.86				-65.86	-47.33	-21.20	-26.13
5180MHz	Pass	5.39G	8G	PK	5.53877G	18.53	-64.21				-64.21	-45.68	-27.00	-18.68
5200MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-67.09				-67.09	-48.56	-41.20	-7.36
5200MHz	Pass	5.11G	5.15G	AV	5.11488G	18.53	-76.26				-76.26	-57.73	-41.20	-16.53
5200MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.06				-81.06	-62.53	-41.20	-21.33
5200MHz	Pass	5.35G	5.39G	AV	5.3892G	18.53	-75.82				-75.82	-57.29	-41.20	-16.09
5200MHz	Pass	5.39G	8G	AV	5.44905G	18.53	-76.02				-76.02	-57.49	-41.20	-16.29
5200MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-68.89				-68.89	-50.36	-27.00	-23.36



## CSE\_Pine R2\_Antenna set 10 (Harmonic 1GHz ~ 8GHz)\_P to M Appendix E.14

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5200MHz	Pass	5.11G	5.15G	PK	5.11264G	18.53	-65.19				-65.19	-46.66	-21.20	-25.46
5200MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-71.41				-71.41	-52.88	-21.20	-31.68
5200MHz	Pass	5.35G	5.39G	PK	5.38864G	18.53	-66.06				-66.06	-47.53	-21.20	-26.33
5200MHz	Pass	5.39G	8G	PK	6.04805G	18.53	-65.21				-65.21	-46.68	-27.00	-19.68
5240MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-67.32				-67.32	-48.79	-41.20	-7.59
5240MHz	Pass	5.11G	5.15G	AV	5.112G	18.53	-75.32				-75.32	-56.79	-41.20	-15.59
5240MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-81.47				-81.47	-62.94	-41.20	-21.74
5240MHz	Pass	5.35G	5.39G	AV	5.38928G	18.53	-74.72				-74.72	-56.19	-41.20	-14.99
5240MHz	Pass	5.39G	8G	AV	5.41675G	18.53	-75.04				-75.04	-56.51	-41.20	-15.31
5240MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-65.04				-65.04	-46.51	-27.00	-19.51
5240MHz	Pass	5.11G	5.15G	PK	5.1132G	18.53	-64.27				-64.27	-45.74	-21.20	-24.54
5240MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-70.77				-70.77	-52.24	-21.20	-31.04
5240MHz	Pass	5.35G	5.39G	PK	5.38928G	18.53	-64.40				-64.40	-45.87	-21.20	-24.67
5240MHz	Pass	5.39G	8G	PK	5.51854G	18.53	-65.17				-65.17	-46.64	-27.00	-19.64
5745MHz	Pass	1G	5.685G	AV	1.92002G	18.53	-68.70				-68.70	-50.17	-41.20	-8.97
5745MHz	Pass	5.89G	8G	AV	7.28023G	18.53	-81.35				-81.35	-62.82	-41.20	-21.62
5745MHz	Pass	1G	5.685G	PK	5.30317G	18.53	-64.85				-64.85	-46.32	-27.00	-19.32
5745MHz	Pass	5.685G	5.725G	PK	5.68612G	18.53	-69.12				-69.12	-50.59	-0.27	-50.32
5745MHz	Pass	5.725G	5.85G	PK	5.725G	18.53	-69.75				-69.75	-51.22	27.00	-78.22
5745MHz	Pass	5.85G	5.89G	PK	5.88992G	18.53	-62.88				-62.88	-44.35	-1.04	-43.31
5745MHz	Pass	5.89G	8G	PK	5.93141G	18.53	-62.05				-62.05	-43.52	-27.00	-16.52
5785MHz	Pass	1G	5.685G	AV	1.92002G	18.53	-67.20				-67.20	-48.67	-41.20	-7.47
5785MHz	Pass	5.89G	8G	AV	7.3008G	18.53	-81.97				-81.97	-63.44	-41.20	-22.24
5785MHz	Pass	1G	5.685G	PK	1.27993G	18.53	-65.48				-65.48	-46.95	-27.00	-19.95
5785MHz	Pass	5.685G	5.725G	PK	5.68524G	18.53	-69.75				-69.75	-51.22	-0.92	-50.30
5785MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.67				-69.67	-51.14	27.00	-78.14
5785MHz	Pass	5.85G	5.89G	PK	5.88888G	18.53	-63.04				-63.04	-44.51	-0.27	-44.24
5785MHz	Pass	5.89G	8G	PK	5.92561G	18.53	-61.95				-61.95	-43.42	-27.00	-16.42
5825MHz	Pass	1G	5.685G	AV	1.91943G	18.53	-69.46				-69.46	-50.93	-41.20	-9.73
5825MHz	Pass	5.89G	8G	AV	7.28708G	18.53	-81.63				-81.63	-63.10	-41.20	-21.90
5825MHz	Pass	1G	5.685G	PK	1.27993G	18.53	-65.62				-65.62	-47.09	-27.00	-20.09
5825MHz	Pass	5.685G	5.725G	PK	5.68612G	18.53	-68.74				-68.74	-50.21	-0.27	-49.94
5825MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-70.09				-70.09	-51.56	27.00	-78.56
5825MHz	Pass	5.85G	5.89G	PK	5.88888G	18.53	-62.58				-62.58	-44.05	-0.27	-43.78
5825MHz	Pass	5.89G	8G	PK	5.97677G	18.53	-60.80				-60.80	-42.27	-27.00	-15.27
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	1G	5.07G	AV	1.91982G	18.53	-66.98				-66.98	-48.45	-41.20	-7.25
5190MHz	Pass	5.07G	5.15G	AV	5.1284G	18.53	-73.14				-73.14	-54.61	-41.20	-13.41
5190MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-81.42				-81.42	-62.89	-41.20	-21.69
5190MHz	Pass	5.35G	5.43G	AV	5.3756G	18.53	-75.19				-75.19	-56.66	-41.20	-15.46
5190MHz	Pass	5.43G	8G	AV	5.44767G	18.53	-76.08				-76.08	-57.55	-41.20	-16.35
5190MHz	Pass	1G	5.07G	PK	1.27981G	18.53	-64.61				-64.61	-46.08	-27.00	-19.08
5190MHz	Pass	5.07G	5.15G	PK	5.1332G	18.53	-59.43				-59.43	-40.90	-21.20	-19.70
5190MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-71.83				-71.83	-53.30	-21.20	-32.10
5190MHz	Pass	5.35G	5.43G	PK	5.38088G	18.53	-64.51				-64.51	-45.98	-21.20	-24.78
5190MHz	Pass	5.43G	8G	PK	6.01371G	18.53	-64.71				-64.71	-46.18	-27.00	-19.18
5230MHz	Pass	1G	5.07G	AV	1.91982G	18.53	-68.87				-68.87	-50.34	-41.20	-9.14
5230MHz	Pass	5.07G	5.15G	AV	5.07224G	18.53	-72.81				-72.81	-54.28	-41.20	-13.08
5230MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-80.40				-80.40	-61.87	-41.20	-20.67
5230MHz	Pass	5.35G	5.43G	AV	5.3972G	18.53	-73.34				-73.34	-54.81	-41.20	-13.61
5230MHz	Pass	5.43G	8G	AV	5.43161G	18.53	-75.50				-75.50	-56.97	-41.20	-15.77
5230MHz	Pass	1G	5.07G	PK	1.27981G	18.53	-67.55				-67.55	-49.02	-27.00	-22.02
5230MHz	Pass	5.07G	5.15G	PK	5.0836G	18.53	-61.57				-61.57	-43.04	-21.20	-21.84
5230MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-71.86				-71.86	-53.33	-21.20	-32.13
5230MHz	Pass	5.35G	5.43G	PK	5.41352G	18.53	-62.63				-62.63	-44.10	-21.20	-22.90
5230MHz	Pass	5.43G	8G	PK	6.1435G	18.53	-65.05				-65.05	-46.52	-27.00	-19.52
5755MHz	Pass	1G	5.645G	AV	1.91971G	18.53	-68.05				-68.05	-49.52	-41.20	-8.32
5755MHz	Pass	5.93G	8G	AV	7.35131G	18.53	-81.83				-81.83	-63.30	-41.20	-22.10
5755MHz	Pass	1G	5.645G	PK	5.28734G	18.53	-66.03				-66.03	-47.50	-27.00	-20.50
5755MHz	Pass	5.645G	5.725G	PK	5.64916G	18.53	-69.54				-69.54	-51.01	-27.00	-24.01
5755MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.86				-69.86	-51.33	27.00	-78.33
5755MHz	Pass	5.85G	5.93G	PK	5.9276G	18.53	-58.83				-58.83	-40.30	-27.00	-13.30
5755MHz	Pass	5.93G	8G	PK	5.93699G	18.53	-60.15				-60.15	-41.62	-27.00	-14.62
5795MHz	Pass	1G	5.645G	AV	1.91971G	18.53	-71.32				-71.32	-52.79	-41.20	-11.59
5795MHz	Pass	5.93G	8G	AV	7.28844G	18.53	-81.78				-81.78	-63.25	-41.20	-22.05
5795MHz	Pass	1G	5.645G	PK	1.27928G	18.53	-64.69				-64.69	-46.16	-27.00	-19.16
5795MHz	Pass	5.645G	5.725G	PK	5.64548G	18.53	-69.42				-69.42	-50.89	-27.00	-23.89
5795MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.59				-69.59	-51.06	27.00	-78.06
5795MHz	Pass	5.85G	5.93G	PK	5.92904G	18.53	-59.85				-59.85	-41.32	-27.00	-14.32
5795MHz	Pass	5.93G	8G	PK	5.96959G	18.53	-59.36				-59.36	-40.83	-27.00	-13.83



## CSE\_Pine R2\_Antenna set 10 (Harmonic 1GHz ~ 8GHz)\_P to M Appendix E.14

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	1G	4.99G	AV	1.9197G	18.53	-67.32				-67.32	-48.79	-41.20	-7.59
5210MHz	Pass	4.99G	5.15G	AV	5.11736G	18.53	-68.14				-68.14	-49.61	-41.20	-8.41
5210MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-80.85				-80.85	-62.32	-41.20	-21.12
5210MHz	Pass	5.35G	5.51G	AV	5.4364G	18.53	-74.41				-74.41	-55.88	-41.20	-14.68
5210MHz	Pass	5.51G	8G	AV	7.32739G	18.53	-81.51				-81.51	-62.98	-41.20	-21.78
5210MHz	Pass	1G	4.99G	PK	1.2798G	18.53	-64.74				-64.74	-46.21	-27.00	-19.21
5210MHz	Pass	4.99G	5.15G	PK	5.10936G	18.53	-55.54				-55.54	-37.01	-21.20	-15.81
5210MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-71.31				-71.31	-52.78	-21.20	-31.58
5210MHz	Pass	5.35G	5.51G	PK	5.4732G	18.53	-65.20				-65.20	-46.67	-27.00	-19.67
5210MHz	Pass	5.51G	8G	PK	5.75993G	18.53	-63.69				-63.69	-45.16	-27.00	-18.16
5775MHz	Pass	1G	5.665G	AV	1.91985G	18.53	-67.35				-67.35	-48.82	-41.20	-7.62
5775MHz	Pass	6.01G	8G	AV	7.37887G	18.53	-81.82				-81.82	-63.29	-41.20	-22.09
5775MHz	Pass	1G	5.665G	PK	5.19466G	18.53	-64.80				-64.80	-46.27	-27.00	-19.27
5775MHz	Pass	5.665G	5.725G	PK	5.6434G	18.53	-69.71				-69.71	-51.18	-27.00	-24.18
5775MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-68.95				-68.95	-50.42	27.00	-77.42
5775MHz	Pass	5.85G	6.01G	PK	5.92808G	18.53	-51.10				-51.10	-32.57	-27.00	-5.57
5775MHz	Pass	6.01G	8G	PK	6.03139G	18.53	-62.14				-62.14	-43.61	-27.00	-16.61
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	1G	5.11G	AV	1.91961G	18.53	-67.95	-84.71			-67.86	-49.33	-41.20	-8.13
5180MHz	Pass	5.11G	5.15G	AV	5.1124G	18.53	-77.62	-73.81			-72.30	-53.77	-41.20	-12.57
5180MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.03	-81.15			-78.08	-59.55	-41.20	-18.35
5180MHz	Pass	5.35G	5.39G	AV	5.37968G	18.53	-77.78	-74.36			-72.73	-54.20	-41.20	-13.00
5180MHz	Pass	5.39G	8G	AV	5.43992G	18.53	-77.92	-73.78			-72.36	-53.83	-41.20	-12.63
5180MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-65.45	-77.51			-65.19	-46.66	-27.00	-19.66
5180MHz	Pass	5.11G	5.15G	PK	5.11448G	18.53	-67.98	-63.28			-62.01	-43.48	-21.20	-22.28
5180MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-71.57	-71.57			-68.56	-50.03	-21.20	-28.83
5180MHz	Pass	5.35G	5.39G	PK	5.38992G	18.53	-68.00	-64.44			-62.85	-44.32	-21.20	-23.12
5180MHz	Pass	5.39G	8G	PK	6.06501G	18.53	-67.99	-62.87			-61.71	-43.18	-27.00	-16.18
5200MHz	Pass	1G	5.11G	AV	5.03705G	18.53	-75.95	-71.83			-70.41	-51.88	-41.20	-10.68
5200MHz	Pass	5.11G	5.15G	AV	5.11056G	18.53	-76.65	-73.19			-71.57	-53.04	-41.20	-11.84
5200MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-81.04	-81.34			-78.18	-59.65	-41.20	-18.45
5200MHz	Pass	5.35G	5.39G	AV	5.38696G	18.53	-77.46	-73.71			-72.18	-53.65	-41.20	-12.45
5200MHz	Pass	5.39G	8G	AV	5.44873G	18.53	-76.11	-74.78			-72.38	-53.85	-41.20	-12.65
5200MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-67.02	-77.45			-66.64	-48.11	-27.00	-21.11
5200MHz	Pass	5.11G	5.15G	PK	5.11272G	18.53	-67.48	-61.90			-60.84	-42.31	-21.20	-21.11
5200MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-71.69	-70.58			-68.09	-49.56	-21.20	-28.36
5200MHz	Pass	5.35G	5.39G	PK	5.38784G	18.53	-67.20	-62.99			-61.59	-43.06	-21.20	-21.86
5200MHz	Pass	5.39G	8G	PK	5.97073G	18.53	-66.06	-64.03			-61.92	-43.39	-27.00	-16.39
5240MHz	Pass	1G	5.11G	AV	5.08431G	18.53	-76.58	-72.01			-70.71	-52.18	-41.20	-10.98
5240MHz	Pass	5.11G	5.15G	AV	5.11008G	18.53	-76.15	-73.53			-71.64	-53.11	-41.20	-11.91
5240MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-81.33	-81.17			-78.24	-59.71	-41.20	-18.51
5240MHz	Pass	5.35G	5.39G	AV	5.38512G	18.53	-76.94	-72.99			-71.52	-52.99	-41.20	-11.79
5240MHz	Pass	5.39G	8G	AV	5.4285G	18.53	-74.96	-74.39			-71.66	-53.13	-41.20	-11.93
5240MHz	Pass	1G	5.11G	PK	4.93173G	18.53	-69.25	-62.33			-61.53	-43.00	-21.20	-21.80
5240MHz	Pass	5.11G	5.15G	PK	5.11264G	18.53	-67.54	-62.60			-61.39	-42.86	-21.20	-21.66
5240MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-71.82	-71.40			-68.59	-50.06	-21.20	-28.86
5240MHz	Pass	5.35G	5.39G	PK	5.3888G	18.53	-66.53	-62.66			-61.17	-42.64	-21.20	-21.44
5240MHz	Pass	5.39G	8G	PK	5.958G	18.53	-68.60	-62.74			-61.74	-43.21	-27.00	-16.21
5745MHz	Pass	1G	5.685G	AV	1.92002G	18.53	-66.93	-84.87			-66.86	-48.33	-41.20	-7.13
5745MHz	Pass	5.89G	8G	AV	7.30396G	18.53	-82.76	-81.84			-79.27	-60.74	-41.20	-19.54
5745MHz	Pass	1G	5.685G	PK	5.30493G	18.53	-67.84	-61.73			-60.78	-42.25	-27.00	-15.25
5745MHz	Pass	5.685G	5.725G	PK	5.68524G	18.53	-69.38	-70.33			-66.82	-48.29	-0.92	-47.37
5745MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.47	-69.75			-66.60	-48.07	27.00	-75.07
5745MHz	Pass	5.85G	5.89G	PK	5.89G	18.53	-62.39	-60.95			-58.60	-40.07	-1.10	-38.97
5745MHz	Pass	5.89G	8G	PK	6.1221G	18.53	-67.19	-59.17			-58.53	-40.00	-27.00	-13.00
5785MHz	Pass	1G	5.685G	AV	5.39629G	18.53	-75.45	-71.37			-69.94	-51.41	-41.20	-10.21
5785MHz	Pass	5.89G	8G	AV	7.27917G	18.53	-82.32	-82.16			-79.23	-60.70	-41.20	-19.50
5785MHz	Pass	1G	5.685G	PK	5.30961G	18.53	-70.80	-61.54			-61.05	-42.52	-27.00	-15.52
5785MHz	Pass	5.685G	5.725G	PK	5.6858G	18.53	-69.62	-68.88			-66.22	-47.69	-0.51	-47.18
5785MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.50	-70.84			-67.11	-48.58	27.00	-75.58
5785MHz	Pass	5.85G	5.89G	PK	5.88976G	18.53	-63.77	-61.95			-59.76	-41.23	-0.92	-40.31
5785MHz	Pass	5.89G	8G	PK	5.94328G	18.53	-62.13	-59.98			-57.91	-39.38	-27.00	-12.38
5825MHz	Pass	1G	5.685G	AV	5.05018G	18.53	-75.64	-71.39			-70.00	-51.47	-41.20	-10.27
5825MHz	Pass	5.89G	8G	AV	7.3066G	18.53	-81.60	-83.18			-79.31	-60.78	-41.20	-19.58
5825MHz	Pass	1G	5.685G	PK	5.19366G	18.53	-68.67	-61.51			-60.75	-42.22	-27.00	-15.22
5825MHz	Pass	5.685G	5.725G	PK	5.68532G	18.53	-70.50	-69.55			-66.99	-48.46	-0.86	-47.60
5825MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-68.45	-71.17			-66.59	-48.06	27.00	-75.06
5825MHz	Pass	5.85G	5.89G	PK	5.88984G	18.53	-62.58	-61.74			-59.13	-40.60	-0.98	-39.62
5825MHz	Pass	5.89G	8G	PK	5.96913G	18.53	-63.24	-59.32			-57.84	-39.31	-27.00	-12.31



**CSE\_Pine R2\_Antenna set 10 (Harmonic 1GHz ~ 8GHz)\_P to M Appendix E.14**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	1G	5.11G	AV	1.92013G	18.53	-66.94	-85.27			-66.88	-48.35	-41.20	-7.15
5180MHz	Pass	5.11G	5.15G	AV	5.11304G	18.53	-76.63	-73.22			-71.59	-53.06	-41.20	-11.86
5180MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.51	-81.09			-78.28	-59.75	-41.20	-18.55
5180MHz	Pass	5.35G	5.39G	AV	5.38408G	18.53	-77.16	-74.96			-72.91	-54.38	-41.20	-13.18
5180MHz	Pass	5.39G	8G	AV	5.44807G	18.53	-77.66	-74.16			-72.56	-54.03	-41.20	-12.83
5180MHz	Pass	1G	5.11G	PK	1.27948G	18.53	-64.79	-77.18			-64.55	-46.02	-27.00	-19.02
5180MHz	Pass	5.11G	5.15G	PK	5.11408G	18.53	-68.55	-63.37			-62.22	-43.69	-21.20	-22.49
5180MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-70.84	-71.15			-67.98	-49.45	-21.20	-28.25
5180MHz	Pass	5.35G	5.39G	PK	5.38688G	18.53	-64.87	-65.22			-62.03	-43.50	-21.20	-22.30
5180MHz	Pass	5.39G	8G	PK	5.78117G	18.53	-65.83	-64.01			-61.82	-43.29	-27.00	-16.29
5200MHz	Pass	1G	5.11G	AV	5.03499G	18.53	-75.18	-72.23			-70.45	-51.92	-41.20	-10.72
5200MHz	Pass	5.11G	5.15G	AV	5.11208G	18.53	-75.87	-73.81			-71.71	-53.18	-41.20	-11.98
5200MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.04	-80.35			-77.67	-59.14	-41.20	-17.94
5200MHz	Pass	5.35G	5.39G	AV	5.38728G	18.53	-76.59	-74.01			-72.10	-53.57	-41.20	-12.37
5200MHz	Pass	5.39G	8G	AV	5.45264G	18.53	-75.87	-74.34			-72.03	-53.50	-41.20	-12.30
5200MHz	Pass	1G	5.11G	PK	1.27999G	18.53	-66.64	-77.11			-66.27	-47.74	-27.00	-20.74
5200MHz	Pass	5.11G	5.15G	PK	5.11136G	18.53	-67.15	-62.88			-61.50	-42.97	-21.20	-21.77
5200MHz	Pass	5.15G	5.35G	PK	5.15G	18.53	-71.95	-70.52			-68.17	-49.64	-21.20	-28.44
5200MHz	Pass	5.35G	5.39G	PK	5.388G	18.53	-65.80	-63.83			-61.69	-43.16	-21.20	-21.96
5200MHz	Pass	5.39G	8G	PK	5.53192G	18.53	-68.14	-62.91			-61.77	-43.24	-27.00	-16.24
5240MHz	Pass	1G	5.11G	AV	1.92013G	18.53	-67.08	-85.18			-67.01	-48.48	-41.20	-7.28
5240MHz	Pass	5.11G	5.15G	AV	5.1116G	18.53	-76.21	-73.04			-71.33	-52.80	-41.20	-11.60
5240MHz	Pass	5.15G	5.35G	AV	5.35G	18.53	-81.16	-81.24			-78.19	-59.66	-41.20	-18.46
5240MHz	Pass	5.35G	5.39G	AV	5.38776G	18.53	-76.42	-73.28			-71.56	-53.03	-41.20	-11.83
5240MHz	Pass	5.39G	8G	AV	5.41186G	18.53	-76.69	-73.13			-71.54	-53.01	-41.20	-11.81
5240MHz	Pass	1G	5.11G	PK	1.27948G	18.53	-65.26	-78.12			-65.04	-46.51	-27.00	-19.51
5240MHz	Pass	5.11G	5.15G	PK	5.11208G	18.53	-67.33	-61.10			-60.17	-41.64	-21.20	-20.44
5240MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-72.16	-71.29			-68.69	-50.16	-21.20	-28.96
5240MHz	Pass	5.35G	5.39G	PK	5.38992G	18.53	-66.81	-61.92			-60.70	-42.17	-21.20	-20.97
5240MHz	Pass	5.39G	8G	PK	5.75932G	18.53	-67.63	-62.67			-61.47	-42.94	-27.00	-15.94
5745MHz	Pass	1G	5.685G	AV	1.92002G	18.53	-68.26	-85.17			-68.17	-49.64	-41.20	-8.44
5745MHz	Pass	5.685G	8G	AV	7.2979G	18.53	-81.97	-82.53			-79.23	-60.70	-41.20	-19.50
5745MHz	Pass	1G	5.685G	PK	5.31137G	18.53	-67.63	-61.36			-60.44	-41.91	-27.00	-14.91
5745MHz	Pass	5.685G	5.725G	PK	5.68508G	18.53	-70.50	-69.99			-67.23	-48.70	-1.04	-47.66
5745MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.54	-68.88			-66.19	-47.66	27.00	-74.66
5745MHz	Pass	5.85G	5.89G	PK	5.88992G	18.53	-64.16	-60.05			-58.63	-40.10	-1.04	-39.06
5745MHz	Pass	5.89G	8G	PK	5.93326G	18.53	-62.58	-61.61			-59.06	-40.53	-27.00	-13.53
5785MHz	Pass	1G	5.685G	AV	5.0209G	18.53	-75.20	-71.48			-69.94	-51.41	-41.20	-10.21
5785MHz	Pass	5.89G	8G	AV	7.32111G	18.53	-82.01	-82.52			-79.25	-60.72	-41.20	-19.52
5785MHz	Pass	1G	5.685G	PK	5.16672G	18.53	-67.94	-61.94			-60.97	-42.44	-27.00	-15.44
5785MHz	Pass	5.685G	5.725G	PK	5.68548G	18.53	-68.92	-69.37			-66.13	-47.60	-0.74	-46.86
5785MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.81	-69.83			-66.81	-48.28	27.00	-75.28
5785MHz	Pass	5.85G	5.89G	PK	5.88992G	18.53	-63.50	-61.21			-59.20	-40.67	-1.04	-39.63
5785MHz	Pass	5.89G	8G	PK	5.94011G	18.53	-65.09	-58.98			-58.03	-39.50	-27.00	-12.50
5825MHz	Pass	1G	5.685G	AV	1.91943G	18.53	-68.14	-84.91			-68.05	-49.52	-41.20	-8.32
5825MHz	Pass	5.89G	8G	AV	7.37254G	18.53	-82.00	-82.70			-79.33	-60.80	-41.20	-19.60
5825MHz	Pass	1G	5.685G	PK	5.16321G	18.53	-67.86	-61.85			-60.88	-42.35	-27.00	-15.35
5825MHz	Pass	5.685G	5.725G	PK	5.68548G	18.53	-68.68	-70.55			-66.50	-47.97	-0.74	-47.23
5825MHz	Pass	5.725G	5.85G	PK	5.85G	18.53	-69.51	-70.46			-66.95	-48.42	27.00	-75.42
5825MHz	Pass	5.85G	5.89G	PK	5.88512G	18.53	-63.15	-51.92			-51.60	-33.07	2.51	-35.58
5825MHz	Pass	5.89G	8G	PK	5.97124G	18.53	-63.70	-58.53			-57.38	-38.85	-27.00	-11.85
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	1G	5.07G	AV	1.91982G	18.53	-66.82	-84.80			-66.75	-48.22	-41.20	-7.02
5190MHz	Pass	5.07G	5.15G	AV	5.08824G	18.53	-76.04	-72.14			-70.66	-52.13	-41.20	-10.93
5190MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-81.53	-80.81			-78.14	-59.61	-41.20	-18.41
5190MHz	Pass	5.35G	5.43G	AV	5.39464G	18.53	-76.54	-73.86			-71.99	-53.46	-41.20	-12.26
5190MHz	Pass	5.43G	8G	AV	5.44124G	18.53	-76.31	-74.32			-72.19	-53.66	-41.20	-12.46
5190MHz	Pass	1G	5.07G	PK	1.27981G	18.53	-65.79	-78.18			-65.55	-47.02	-27.00	-20.02
5190MHz	Pass	5.07G	5.15G	PK	5.07048G	18.53	-66.52	-61.74			-60.49	-41.96	-21.20	-20.76
5190MHz	Pass	5.15G	5.35G	PK	5.35G	18.53	-71.42	-72.04			-68.71	-50.18	-21.20	-28.98
5190MHz	Pass	5.35G	5.43G	PK	5.39976G	18.53	-67.76	-62.98			-61.73	-43.20	-21.20	-22.00
5190MHz	Pass	5.43G	8G	PK	5.80522G	18.53	-68.21	-62.31			-61.32	-42.79	-27.00	-15.79
5230MHz	Pass	1G	5.07G	AV	1.91982G	18.53	-67.93	-85.66			-67.86	-49.33	-41.20	-8.13
5230MHz	Pass	5.07G	5.15G	AV	5.07416G	18.53	-76.08	-71.34			-70.08	-51.55	-41.20	-10.35
5230MHz	Pass	5.15G	5.35G	AV	5.15G	18.53	-81.37	-81.22			-78.28	-59.75	-41.20	-18.55
5230MHz	Pass	5.35G	5.43G	AV	5.40232G	18.53	-75.77	-72.61			-70.90	-52.37	-41.20	-11.17
5230MHz	Pass	5.43G	8G	AV	5.45731G	18.53	-77.40	-73.59			-72.08	-53.55	-41.20	-12.35
5230MHz	Pass	1G	5.07G	PK	1.27981G	18.53	-65.33	-77.05			-65.05	-46.52	-27.00	-19.52
5230MHz	Pass	5.07G	5.15G	PK	5.07752G	18.53	-64.90	-61.95			-60.17	-41.64	-21.20	-20.44