ULCA_5A-7A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (829.0 ㎒ + 2 510.0 ㎒)									
4 212.99	56.58	V	32.10	-29.91	58.77	-95.26	**-36.49**	-25	11.49
5 907.64	46.75	H	34.60	-26.88	54.47	-95.26	-40.80	-25	15.80
5 907.60	47.66	V	34.60	-26.88	55.38	-95.26	-39.88	-25	14.88
Above 6 000.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (836.5 ㎒ + 2 535.0 ㎒)									
4 255.80	56.14	V	32.10	-30.44	57.80	-95.26	-37.46	-25	12.46
5 919.95	49.13	H	34.60	-27.39	56.34	-95.26	-38.92	-25	13.92
5 967.81	48.93	V	34.64	-28.49	55.08	-95.26	-40.18	-25	15.18
Above 6 000.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (844.0 ㎒ + 2 560.0 ㎒)									
4 298.07	54.63	V	32.10	-30.61	56.12	-95.26	-39.14	-25	14.14
5 977.40	42.48	H	34.65	-28.97	48.16	-95.26	-47.10	-25	22.10
5 977.36	50.44	V	34.65	-28.97	56.12	-95.26	-39.14	-25	14.14
Above 6 000.00	Not detected	–	–	–	–	–	–	–	–

ULCA_5A-25A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (829.0 ㎒ + 1 860.0 ㎒)									
3 078.60	53.60	H	30.16	-32.82	50.94	-95.26	-44.33	-13	31.33
3 078.53	57.15	V	30.16	-32.82	54.49	-95.26	-40.77	-13	27.77
3 518.05	57.08	H	31.14	-32.51	55.71	-95.26	-39.56	-13	26.56
3 517.96	69.85	V	31.14	-32.51	68.48	-95.26	**-26.78**	-13	13.78
4 122.91	61.92	H	32.10	-29.31	64.71	-95.26	-30.55	-13	17.55
4 123.12	63.72	V	32.10	-29.32	66.50	-95.26	-28.76	-13	15.76
4 562.26	51.31	V	32.00	-29.96	53.35	-95.26	-41.91	-13	28.91
5 167.38	48.81	V	33.63	-29.38	53.06	-95.26	-42.21	-13	29.21
5 772.06	50.42	H	34.24	-28.84	55.82	-95.26	-39.44	-13	26.44
6 816.36	48.08	V	35.43	-27.30	56.21	-95.26	-39.05	-13	26.05
7 421.34	41.37	V	36.26	-27.72	49.91	-95.26	-45.35	-13	32.35
8 026.02	37.60	V	36.20	-26.70	47.10	-95.26	-48.16	-13	35.16
8 465.66	40.48	V	36.40	-27.57	49.31	-95.26	-45.95	-13	32.95
Above 8 500.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (836.5 ㎒ + 1 882.5 ㎒)									
3 100.94	53.92	H	30.20	-31.84	52.28	-95.26	-42.98	-13	29.98
3 101.22	58.52	V	30.20	-31.84	56.88	-95.26	-38.38	-13	25.38
3 555.70	61.04	H	31.22	-32.34	59.92	-95.26	-35.34	-13	22.34
3 555.68	68.00	V	31.22	-32.34	66.88	-95.26	-28.38	-13	15.38
4 160.36	63.78	H	32.10	-30.87	65.01	-95.26	-30.26	-13	17.26
4 160.42	65.48	V	32.10	-30.87	66.71	-95.26	-28.55	-13	15.55
4 614.96	48.25	V	32.03	-29.43	50.85	-95.26	-44.41	-13	31.41
5 219.62	47.92	V	33.74	-30.09	51.57	-95.26	-43.69	-13	30.69
5 824.62	52.37	H	34.35	-28.78	57.94	-95.26	-37.32	-13	24.32
6 884.25	48.20	V	35.50	-27.24	56.46	-95.26	-38.80	-13	25.80
7 488.84	43.71	V	36.12	-27.59	52.24	-95.26	-43.02	-13	30.02
8 093.48	40.24	V	36.29	-27.01	49.52	-95.26	-45.74	-13	32.74
8 547.74	42.54	V	36.50	-26.32	52.72	-95.26	-42.54	-13	29.54
Above 8 600.00	Not detected	–	–	–	–	–	–	–	–

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (844.0 ㎒ + 1 905.0 ㎒)									
3 123.61	54.38	H	30.25	-31.79	52.84	-95.26	-42.42	-13	29.42
3 123.77	54.45	V	30.25	-31.79	52.91	-95.26	-42.35	-13	29.35
3 593.04	62.84	H	31.37	-31.08	63.13	-95.26	-32.13	-13	19.13
3 593.12	64.72	V	31.37	-31.08	65.01	-95.26	-30.25	-13	17.25
4 197.97	59.49	H	32.10	-31.17	60.42	-95.26	-34.84	-13	21.84
4 197.71	65.07	V	32.10	-31.17	66.00	-95.26	-29.26	-13	16.26
4 667.28	46.38	V	32.17	-30.01	48.54	-95.26	-46.72	-13	33.72
5 272.27	48.14	V	33.89	-29.19	52.84	-95.26	-42.42	-13	29.42
5 877.13	45.80	H	34.51	-28.37	51.94	-95.26	-43.32	-13	30.32
6 951.39	48.88	V	35.60	-27.58	56.90	-95.26	-38.36	-13	25.36
7 556.38	41.64	V	36.00	-27.05	50.59	-95.26	-44.67	-13	31.67
8 161.21	40.42	V	36.40	-26.13	50.69	-95.26	-44.57	-13	31.57
8 630.68	45.98	V	36.60	-27.30	55.28	-95.26	-39.98	-13	26.98
Above 8 700.00	Not detected	–	–	–	–	–	–	–	–

ULCA_5A-66A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (829.0 ㎒ + 1 720.0 ㎒)									
3 360.13	48.71	H	31.00	-32.75	46.96	-95.26	-48.30	-13	35.30
3 360.12	52.40	V	31.00	-32.75	50.65	-95.26	-44.61	-13	31.61
4 246.75	45.18	H	32.10	-30.12	47.16	-95.26	-48.10	-13	35.10
4 246.62	53.02	V	32.10	-30.11	55.01	-95.26	-40.25	-13	27.25
Above 4 300.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (836.5 ㎒ + 1 745.0 ㎒)									
3 400.25	48.88	H	31.00	-32.15	47.73	-95.26	-47.54	-13	34.54
3 400.36	53.71	V	31.00	-32.15	52.56	-95.26	-42.70	-13	29.70
4 304.37	54.52	H	32.10	-30.63	55.99	-95.26	-39.28	-13	26.28
4 304.65	52.53	V	32.10	-30.63	54.00	-95.26	-41.26	-13	28.26
Above 4 400.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (844.0 ㎒ + 1 770.0 ㎒)									
3 440.39	52.19	H	31.00	-31.91	51.28	-95.26	-43.98	-13	30.98
3 440.28	54.42	V	31.00	-31.91	53.51	-95.26	-41.75	-13	28.75
4 361.73	55.86	H	32.10	-30.17	57.79	-95.26	**-37.47**	-13	24.47
4 361.47	55.83	V	32.10	-30.19	57.74	-95.26	-37.52	-13	24.52
Above 4 400.00	Not detected	–	–	–	–	–	–	–	–

ULCA_7A-12A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 ㎒ + SCC 10 ㎒_ Low Channel (2 510.0 ㎒ + 704.0 ㎒)									
3 935.70	43.72	H	32.30	-30.77	45.25	-95.26	-50.01	-25	25.01
3 935.73	46.90	V	32.30	-30.77	48.43	-95.26	-46.83	-25	21.83
4 329.42	54.96	H	32.10	-30.79	56.27	-95.26	**-38.99**	-25	13.99
4 329.50	53.44	V	32.10	-30.79	54.75	-95.26	-40.51	-25	15.51
5 746.30	43.98	V	34.19	-28.08	50.09	-95.26	-45.17	-25	20.17
7 556.94	42.46	V	36.00	-27.06	51.40	-95.26	-43.86	-25	18.86
Above 7 600.00	Not detected	–	–	–	–	–	–	–	–
PCC 20 ㎒ + SCC 10 ㎒_ Middle Channel (2 535.0 ㎒ + 707.5 ㎒)									
3 967.78	43.79	H	32.26	-31.92	44.13	-95.26	-51.13	-25	26.13
3 967.51	46.60	V	32.26	-31.92	46.94	-95.26	-48.32	-25	23.32
4 375.99	46.76	H	32.10	-29.57	49.29	-95.26	-45.97	-25	20.97
4 375.95	49.35	V	32.10	-29.57	51.88	-95.26	-43.39	-25	18.39
5 799.82	45.97	V	34.30	-26.24	54.03	-95.26	-41.24	-25	16.24
7 631.76	42.05	V	36.00	-27.51	50.54	-95.26	-44.72	-25	19.72
Above 7 700.00	Not detected	–	–	–	–	–	–	–	–
PCC 20 ㎒ + SCC 10 ㎒_ High Channel (2 560.0 ㎒ + 711.0 ㎒)									
3 999.67	41.75	H	32.20	-31.53	42.42	-95.26	-52.84	-25	27.84
3 999.79	47.50	V	32.20	-31.52	48.18	-95.26	-47.08	-25	22.08
4 422.32	41.08	H	32.06	-30.62	42.52	-95.26	-52.74	-25	27.74
4 422.22	41.88	V	32.06	-30.62	43.32	-95.26	-51.94	-25	26.94
5 853.22	43.12	V	34.41	-28.78	48.75	-95.26	-46.51	-25	21.51
7 706.72	38.11	V	35.91	-26.98	47.04	-95.26	-48.22	-25	23.22
Above 7 800.00	Not detected	–	–	–	–	–	–	–	–

ULCA_12A-25A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (704.0 ㎒ + 1 860.0 ㎒)									
3 029.33	51.56	H	30.10	-32.89	48.77	-95.26	-46.49	-13	33.49
3 029.43	59.83	V	30.10	-32.88	57.05	-95.26	-38.21	-13	25.21
3 285.65	61.21	H	30.94	-32.91	59.24	-95.26	-36.02	-13	23.02
3 285.82	71.24	V	30.94	-32.91	69.27	-95.26	**-25.99**	-13	12.99
3 542.19	66.07	V	31.18	-32.55	64.70	-95.26	-30.56	-13	17.56
4 189.81	40.15	H	32.10	-31.21	41.04	-95.26	-54.22	-13	41.22
4 446.15	46.02	H	32.01	-29.13	48.90	-95.26	-46.36	-13	33.36
4 446.37	48.81	V	32.01	-29.11	51.71	-95.26	-43.55	-13	30.55
Above 4 500.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (707.5 ㎒ + 1 882.5 ㎒)									
3 070.97	51.98	H	30.14	-32.69	49.43	-95.26	-45.83	-13	32.83
3 070.89	62.32	V	30.14	-32.69	59.77	-95.26	-35.49	-13	22.49
3 315.13	59.62	H	31.00	-33.00	57.62	-95.26	-37.64	-13	24.64
3 315.06	66.59	V	31.00	-33.00	64.59	-95.26	-30.67	-13	17.67
3 559.59	57.00	V	31.24	-32.20	56.04	-95.26	-39.22	-13	26.22
4 250.27	44.68	H	32.10	-30.34	46.44	-95.26	-48.82	-13	35.82
4 494.52	48.21	H	32.00	-29.84	50.37	-95.26	-44.89	-13	31.89
4 494.85	49.08	V	32.00	-29.85	51.23	-95.26	-44.03	-13	31.03
Above 4 500.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (711.0 ㎒ + 1 905.0 ㎒)									
3 112.25	49.94	H	30.22	-31.81	48.35	-95.26	-46.91	-13	33.91
3 112.58	57.45	V	30.23	-31.81	55.87	-95.26	-39.39	-13	26.39
3 344.96	53.82	H	31.00	-32.78	52.04	-95.26	-43.22	-13	30.22
3 344.86	62.47	V	31.00	-32.78	60.69	-95.26	-34.57	-13	21.57
3 576.94	56.14	V	31.31	-31.55	55.90	-95.26	-39.36	-13	26.36
4 311.08	44.44	H	32.10	-30.69	45.85	-95.26	-49.41	-13	36.41
4 543.17	46.06	H	32.00	-29.64	48.42	-95.26	-46.84	-13	33.84
4 543.07	46.39	V	32.00	-29.64	48.75	-95.26	-46.51	-13	33.51
Above 4 600.00	Not detected	–	–	–	–	–	–	–	–

ULCA_12A-66A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (704.0 ㎒ + 1 860.0 ㎒)									
3 127.84	53.74	H	30.26	-31.94	52.06	-95.26	-43.20	-13	30.20
3 127.93	53.59	V	30.26	-31.94	51.91	-95.26	-43.35	-13	30.35
4 130.58	49.81	V	32.10	-29.65	52.26	-95.26	-43.00	-13	30.00
Above 4 200.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (707.5 ㎒ + 1 882.5 ㎒)									
3 159.90	57.14	H	30.36	-32.28	55.22	-95.26	-40.04	-13	27.04
3 159.84	58.79	V	30.36	-32.28	56.87	-95.26	-38.39	-13	25.39
4 184.31	51.47	V	32.10	-31.23	52.34	-95.26	-42.92	-13	29.92
Above 4 200.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (711.0 ㎒ + 1 905.0 ㎒)									
3 191.87	54.57	H	30.55	-32.13	52.99	-95.26	-42.27	-13	29.27
3 191.94	61.91	V	30.55	-32.13	60.33	-95.26	**-34.93**	-13	21.93
4 237.46	56.36	V	32.10	-29.53	58.93	-95.26	-36.33	-13	23.33
Above 4 300.00	Not detected	–	–	–	–	–	–	–	–

ULCA_13A-66A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (782.0 ㎒ + 1 720.0 ㎒)									
3 283.80	55.91	H	30.94	-32.92	53.93	-95.26	-41.33	-13	28.33
3 283.91	61.35	V	30.94	-32.92	59.37	-95.26	-35.89	-13	22.89
4 208.65	51.61	V	32.10	-30.32	53.39	-95.26	-41.87	-13	28.87
5 133.16	42.27	V	33.57	-29.87	45.97	-95.26	-49.29	-13	36.29
Above 5 200.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (782.0 ㎒ + 1 745.0 ㎒)									
3 309.01	56.93	H	31.00	-32.95	54.98	-95.26	-40.28	-13	27.28
3 308.86	63.03	V	31.00	-32.95	61.08	-95.26	-34.18	-13	21.18
4 258.75	55.69	V	32.10	-30.50	57.29	-95.26	-37.97	-13	24.97
5 208.34	40.81	V	33.72	-30.00	44.53	-95.26	-50.73	-13	37.73
Above 5 300.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (782.0 ㎒ + 1 770.0 ㎒)									
3 333.97	56.72	H	31.00	-32.94	54.78	-95.26	-40.48	-13	27.48
3 333.86	62.61	V	31.00	-32.94	60.67	-95.26	-34.59	-13	21.59
4 308.66	59.88	V	32.10	-30.66	61.32	-95.26	**-33.94**	-13	20.94
5 283.41	43.07	V	33.93	-29.06	47.94	-95.26	-47.32	-13	34.32
Above 5 300.00	Not detected	–	–	–	–	–	–	–	–

ULCA_14A-66A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 10 ㎒ + SCC 20 ㎒_ Low Channel (793.0 ㎒ + 1 720.0 ㎒)									
3 305.91	49.76	H	31.00	-32.93	47.83	-95.26	-47.43	-13	34.43
3 306.19	59.34	V	31.00	-32.93	57.41	-95.26	-37.85	-13	24.85
4 219.61	51.51	V	32.10	-29.27	54.34	-95.26	-40.92	-13	27.92
Above 4 300.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ Middle Channel (793.0 ㎒ + 1 745.0 ㎒)									
3 330.86	51.08	H	31.00	-32.99	49.09	-95.26	-46.17	-13	33.17
3 330.95	57.72	V	31.00	-32.98	55.74	-95.26	-39.52	-13	26.52
4 269.72	55.02	V	32.10	-30.72	56.40	-95.26	-38.86	-13	25.86
Above 4 300.00	Not detected	–	–	–	–	–	–	–	–
PCC 10 ㎒ + SCC 20 ㎒_ High Channel (793.0 ㎒ + 1 770.0 ㎒)									
3 355.80	50.84	H	31.00	-32.74	49.10	-95.26	-46.16	-13	33.16
3 355.85	61.36	V	31.00	-32.74	59.62	-95.26	**-35.64**	-13	22.64
4 319.87	57.55	V	32.10	-30.76	58.89	-95.26	-36.37	-13	23.37
Above 4 400.00	Not detected	–	–	–	–	–	–	–	–

ULCA_25A-26A

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 ㎒ + SCC 10 ㎒_ Low Channel (1 860.0 ㎒ + 829.0 ㎒)									
3 080.28	60.35	V	30.16	-32.74	57.77	-95.26	-37.49	-13	24.49
3 518.26	76.05	H	31.14	-32.51	74.68	-95.26	**-20.58**	-13	7.58
3 518.52	67.72	V	31.14	-32.51	66.35	-95.26	-28.91	-13	15.91
4 124.00	58.54	H	32.10	-29.35	61.29	-95.26	-33.97	-13	20.97
4 124.34	65.39	V	32.10	-29.36	68.13	-95.26	-27.13	-13	14.13
4 562.61	52.12	H	32.00	-29.98	54.14	-95.26	-41.13	-13	28.13
4 562.69	53.00	V	32.00	-29.98	55.02	-95.26	-40.24	-13	27.24
5 168.34	48.66	H	33.64	-29.36	52.94	-95.26	-42.33	-13	29.33
5 168.28	53.93	V	33.64	-29.36	58.21	-95.26	-37.05	-13	24.05
6 212.65	45.72	V	34.80	-27.38	53.14	-95.26	-42.12	-13	29.12
6 818.12	50.43	V	35.44	-27.22	58.65	-95.26	-36.61	-13	23.61
Above 6 900.00	Not detected	–	–	–	–	–	–	–	–
PCC 20 ㎒ + SCC 10 ㎒_ Middle Channel (1 882.5 ㎒ + 836.5 ㎒)									
3 057.65	58.99	V	30.12	-31.75	57.36	-95.26	-37.90	-13	24.90
3 540.94	74.73	H	31.18	-32.54	73.37	-95.26	-21.89	-13	8.89
3 541.13	64.58	V	31.18	-32.55	63.21	-95.26	-32.05	-13	19.05
4 124.23	58.61	H	32.10	-29.36	61.35	-95.26	-33.91	-13	20.91
4 124.06	65.09	V	32.10	-29.35	67.84	-95.26	-27.42	-13	14.42
4 607.93	49.74	H	32.02	-29.83	51.93	-95.26	-43.33	-13	30.33
4 607.74	49.68	V	32.02	-29.84	51.86	-95.26	-43.40	-13	30.40
5 190.87	47.14	H	33.68	-29.67	51.15	-95.26	-44.12	-13	31.12
5 190.72	51.32	V	33.68	-29.67	55.33	-95.26	-39.93	-13	26.93
6 257.28	43.94	V	34.80	-28.35	50.39	-95.26	-44.87	-13	31.87
6 840.07	48.06	V	35.48	-27.79	55.75	-95.26	-39.52	-13	26.52
Above 6 900.00	Not detected	–	–	–	–	–	–	–	–

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
PCC 20 ㎒ + SCC 10 ㎒_ High Channel (1 905.0 ㎒ + 844.0 ㎒)									
3 034.80	56.32	V	30.10	-32.44	53.98	-95.26	-41.28	-13	28.28
3 563.74	70.79	H	31.25	-32.04	70.00	-95.26	-25.26	-13	12.26
3 563.66	62.81	V	31.25	-32.05	62.01	-95.26	-33.25	-13	20.25
4 124.11	56.70	H	32.10	-29.35	59.45	-95.26	-35.81	-13	22.81
4 124.06	64.28	V	32.10	-29.35	67.03	-95.26	-28.23	-13	15.23
4 652.86	50.56	H	32.11	-30.13	52.54	-95.26	-42.72	-13	29.72
4 652.80	49.55	V	32.11	-30.13	51.53	-95.26	-43.73	-13	30.73
5 213.24	44.80	H	33.73	-30.04	48.49	-95.26	-46.77	-13	33.77
5 213.36	51.28	V	33.73	-30.04	54.97	-95.26	-40.29	-13	27.29
6 302.34	42.04	V	34.80	-27.71	49.13	-95.26	-46.13	-13	33.13
6 863.05	48.84	V	35.50	-27.80	56.54	-95.26	-38.73	-13	25.73
Above 6 900.00	Not detected	–	–	–	–	–	–	–	–

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dB㎶/m) = Measured Level (dB㎶) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dB㎶/m) + CF (dB).
4. E.R.P. (dB m) = E (dB㎶/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 ㎑ to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

3. Conducted Output Power

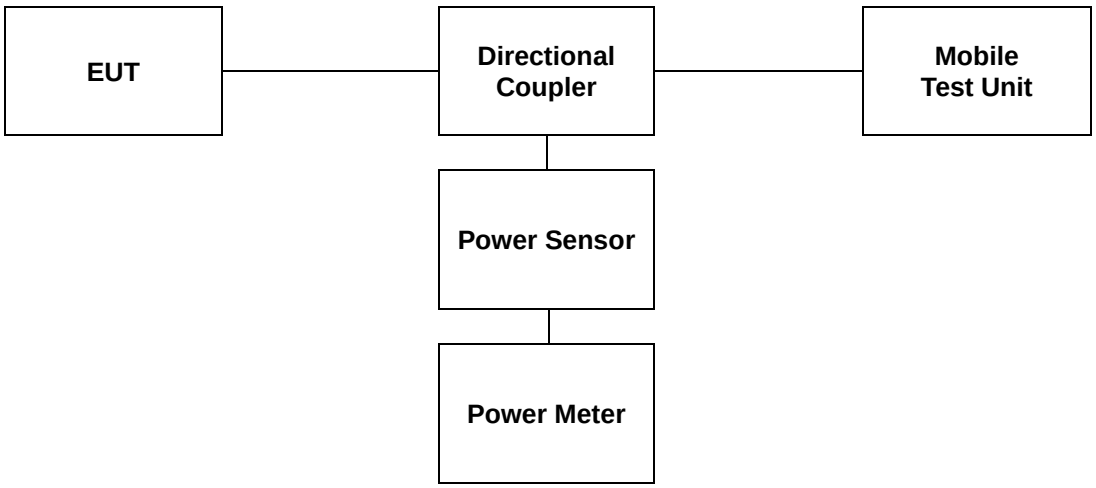
3.1. Limit

CFR 47, Section FCC §2.1046

3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. The measurement performed using a wideband RF power meter.
4. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

Ambient temperature : (23 ± 1) ℃

Relative humidity : 47 % R.H.

ULCA 5B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	3	825.6	20416	1	14	5	825.6	20455	1	0	23.05	0.202
	5	826.5	20425	1	24	3	830.4	20464	1	0	23.15	0.207
	5	826.8	20428	1	24	10	834.0	20500	1	0	23.12	0.205
	10	829.0	20450	1	49	5	836.2	20522	1	0	**23.21**	**0.209**
	10	829.0	20450	1	49	10	838.9	20549	1	0	23.16	0.207
Middle	3	834.1	20501	1	14	5	838.0	20540	1	0	23.11	0.205
	5	835.0	20510	1	24	3	838.9	20549	1	0	23.14	0.206
	5	831.8	20478	1	24	10	839.0	20550	1	0	23.10	0.204
	10	834.0	20500	1	49	5	841.2	20572	1	0	23.17	0.207
	10	831.6	20476	1	49	10	841.5	20575	1	0	23.11	0.205
High	3	842.6	20586	1	14	5	846.5	20625	1	0	23.10	0.204
	5	843.5	20595	1	24	3	847.4	20634	1	0	23.05	0.202
	5	836.8	20528	1	24	10	844.0	20600	1	0	23.03	0.201
	10	839.0	20550	1	49	5	846.2	20622	1	0	23.09	0.204
	10	834.1	20501	1	49	10	844.0	20600	1	0	23.14	0.206

Note;

QPSK Modulation with 1 RB

ULCA 5B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	3	825.6	20416	1	14	5	825.6	20455	1	0	22.68	0.185
	5	826.5	20425	1	24	3	830.4	20464	1	0	22.72	0.187
	5	826.8	20428	1	24	10	834.0	20500	1	0	22.62	0.183
	10	829.0	20450	1	49	5	836.2	20522	1	0	22.51	0.178
	10	829.0	20450	1	49	10	838.9	20549	1	0	22.45	0.176
Middle	3	834.1	20501	1	14	5	838.0	20540	1	0	22.69	0.186
	5	835.0	20510	1	24	3	838.9	20549	1	0	22.78	0.190
	5	831.8	20478	1	24	10	839.0	20550	1	0	22.68	0.185
	10	834.0	20500	1	49	5	841.2	20572	1	0	22.69	0.186
	10	831.6	20476	1	49	10	841.5	20575	1	0	**22.92**	**0.196**
High	3	842.6	20586	1	14	5	846.5	20625	1	0	22.57	0.181
	5	843.5	20595	1	24	3	847.4	20634	1	0	22.65	0.184
	5	836.8	20528	1	24	10	844.0	20600	1	0	22.46	0.176
	10	839.0	20550	1	49	5	846.2	20622	1	0	22.79	0.190
	10	834.1	20501	1	49	10	844.0	20600	1	0	22.51	0.178

Note;

16QAM Modulation with 1 RB

ULCA 5B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(dB m)	(W)
Low	3	825.6	20416	15	0	5	825.6	20455	25	0	21.85	0.153
	5	826.5	20425	25	0	3	830.4	20464	15	0	22.41	0.174
	5	826.8	20428	25	0	10	834.0	20500	50	0	22.30	0.170
	10	829.0	20450	50	0	5	836.2	20522	25	0	22.35	0.172
	10	829.0	20450	50	0	10	838.9	20549	50	0	22.35	0.172
Middle	3	834.1	20501	15	0	5	838.0	20540	25	0	22.25	0.168
	5	835.0	20510	25	0	3	838.9	20549	15	0	22.40	0.174
	5	831.8	20478	25	0	10	839.0	20550	50	0	22.07	0.161
	10	834.0	20500	50	0	5	841.2	20572	25	0	**22.51**	**0.178**
	10	831.6	20476	50	0	10	841.5	20575	50	0	22.40	0.174
High	3	842.6	20586	15	0	5	846.5	20625	25	0	22.20	0.166
	5	843.5	20595	25	0	3	847.4	20634	15	0	22.09	0.162
	5	836.8	20528	25	0	10	844.0	20600	50	0	22.25	0.168
	10	839.0	20550	50	0	5	846.2	20622	25	0	22.08	0.161
	10	834.1	20501	50	0	10	844.0	20600	50	0	22.45	0.176

Note;

QPSK Modulation with Full RB

ULCA 5B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	3	825.6	20416	15	0	5	825.6	20455	25	0	21.12	0.129
	5	826.5	20425	25	0	3	830.4	20464	15	0	21.73	0.149
	5	826.8	20428	25	0	10	834.0	20500	50	0	21.54	0.143
	10	829.0	20450	50	0	5	836.2	20522	25	0	21.72	0.149
	10	829.0	20450	50	0	10	838.9	20549	50	0	21.60	0.145
Middle	3	834.1	20501	15	0	5	838.0	20540	25	0	21.56	0.143
	5	835.0	20510	25	0	3	838.9	20549	15	0	21.81	0.152
	5	831.8	20478	25	0	10	839.0	20550	50	0	21.72	0.149
	10	834.0	20500	50	0	5	841.2	20572	25	0	**21.96**	**0.157**
	10	831.6	20476	50	0	10	841.5	20575	50	0	21.92	0.156
High	3	842.6	20586	15	0	5	846.5	20625	25	0	21.53	0.142
	5	843.5	20595	25	0	3	847.4	20634	15	0	21.81	0.152
	5	836.8	20528	25	0	10	844.0	20600	50	0	21.72	0.149
	10	839.0	20550	50	0	5	846.2	20622	25	0	21.89	0.155
	10	834.1	20501	50	0	10	844.0	20600	50	0	21.73	0.149

Note;

16QAM Modulation with Full RB

ULCA 7C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	10	2 505.5	20805	1	49	20	2 519.9	20949	1	0	23.35	0.216
	20	2 510.0	20850	1	99	10	2 524.4	20994	1	0	23.02	0.200
	15	2 507.5	20825	1	74	15	2 522.5	20975	1	0	23.31	0.214
	15	2 507.5	20825	1	74	10	2 519.5	20945	1	0	23.45	0.221
	15	2 507.8	20828	1	74	20	2 524.9	20999	1	0	23.27	0.212
	20	2 510.0	20850	1	99	15	2 527.1	21021	1	0	23.34	0.216
	20	2 510.0	20850	1	99	20	2 529.8	21048	1	0	23.43	0.220
Middle	10	2 525.6	21006	1	49	20	2 540.0	21150	1	0	23.41	0.219
	20	2 530.1	21051	1	99	10	2 544.5	21195	1	0	**23.52**	**0.225**
	15	2 527.5	21025	1	74	15	2 542.5	21175	1	0	23.27	0.212
	15	2 530.1	21051	1	74	10	2 542.1	21171	1	0	23.36	0.217
	15	2 525.3	21003	1	74	20	2 542.4	21174	1	0	23.33	0.215
	20	2 527.6	21026	1	99	15	2 544.7	21197	1	0	23.21	0.209
	20	2 525.1	21001	1	99	20	2 544.9	21199	1	0	23.16	0.207
High	10	2 545.6	21206	1	49	20	2 560.0	21350	1	0	22.98	0.199
	20	2 550.1	21251	1	99	10	2 564.5	21395	1	0	22.86	0.193
	15	2 547.5	21225	1	74	15	2 562.5	21375	1	0	23.15	0.207
	15	2 552.7	21277	1	74	10	2 564.7	21397	1	0	23.05	0.202
	15	2 542.9	21179	1	74	20	2 560.0	21350	1	0	22.97	0.198
	20	2 545.1	21201	1	99	15	2 562.2	21372	1	0	23.07	0.203
	20	2 540.2	21152	1	99	20	2 560.0	21350	1	0	23.11	0.205

Note;

QPSK Modulation with 1 RB

ULCA 7C												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	10	2 505.5	20805	1	49	20	2 519.9	20949	1	0	22.89	0.195
	20	2 510.0	20850	1	99	10	2 524.4	20994	1	0	22.62	0.183
	15	2 507.5	20825	1	74	15	2 522.5	20975	1	0	22.85	0.193
	15	2 507.5	20825	1	74	10	2 519.5	20945	1	0	22.91	0.195
	15	2 507.8	20828	1	74	20	2 524.9	20999	1	0	22.94	0.197
	20	2 510.0	20850	1	99	15	2 527.1	21021	1	0	23.05	0.202
	20	2 510.0	20850	1	99	20	2 529.8	21048	1	0	22.88	0.194
Middle	10	2 525.6	21006	1	49	20	2 540.0	21150	1	0	23.05	0.202
	20	2 530.1	21051	1	99	10	2 544.5	21195	1	0	22.89	0.195
	15	2 527.5	21025	1	74	15	2 542.5	21175	1	0	22.87	0.194
	15	2 530.1	21051	1	74	10	2 542.1	21171	1	0	**23.11**	**0.205**
	15	2 525.3	21003	1	74	20	2 542.4	21174	1	0	22.91	0.195
	20	2 527.6	21026	1	99	15	2 544.7	21197	1	0	22.92	0.196
	20	2 525.1	21001	1	99	20	2 544.9	21199	1	0	23.02	0.200
High	10	2 545.6	21206	1	49	20	2 560.0	21350	1	0	22.41	0.174
	20	2 550.1	21251	1	99	10	2 564.5	21395	1	0	22.25	0.168
	15	2 547.5	21225	1	74	15	2 562.5	21375	1	0	22.56	0.180
	15	2 552.7	21277	1	74	10	2 564.7	21397	1	0	22.37	0.173
	15	2 542.9	21179	1	74	20	2 560.0	21350	1	0	22.43	0.175
	20	2 545.1	21201	1	99	15	2 562.2	21372	1	0	22.37	0.173
	20	2 540.2	21152	1	99	20	2 560.0	21350	1	0	22.41	0.174

Note;

16QAM Modulation with 1 RB

ULCA 7C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	10	2 505.5	20805	50	0	20	2 519.9	20949	100	0	21.67	0.147
	20	2 510.0	20850	100	0	10	2 524.4	20994	50	0	21.37	0.137
	15	2 507.5	20825	75	0	15	2 522.5	20975	75	0	21.71	0.148
	15	2 507.5	20825	75	0	10	2 519.5	20945	50	0	21.76	0.150
	15	2 507.8	20828	75	0	20	2 524.9	20999	100	0	21.78	0.151
	20	2 510.0	20850	100	0	15	2 527.1	21021	75	0	21.83	0.152
	20	2 510.0	20850	100	0	20	2 529.8	21048	100	0	21.74	0.149
Middle	10	2 525.6	21006	50	0	20	2 540.0	21150	100	0	22.01	0.159
	20	2 530.1	21051	100	0	10	2 544.5	21195	50	0	21.91	0.155
	15	2 527.5	21025	75	0	15	2 542.5	21175	75	0	21.89	0.155
	15	2 530.1	21051	75	0	10	2 542.1	21171	50	0	**22.06**	**0.161**
	15	2 525.3	21003	75	0	20	2 542.4	21174	100	0	21.94	0.156
	20	2 527.6	21026	100	0	15	2 544.7	21197	75	0	21.89	0.155
	20	2 525.1	21001	100	0	20	2 544.9	21199	100	0	21.97	0.157
High	10	2 545.6	21206	50	0	20	2 560.0	21350	100	0	21.67	0.147
	20	2 550.1	21251	100	0	10	2 564.5	21395	50	0	21.36	0.137
	15	2 547.5	21225	75	0	15	2 562.5	21375	75	0	21.56	0.143
	15	2 552.7	21277	75	0	10	2 564.7	21397	50	0	21.40	0.138
	15	2 542.9	21179	75	0	20	2 560.0	21350	100	0	21.63	0.146
	20	2 545.1	21201	100	0	15	2 562.2	21372	75	0	21.45	0.140
	20	2 540.2	21152	100	0	20	2 560.0	21350	100	0	21.44	0.139

Note;

QPSK Modulation with Full RB

ULCA 7C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	10	2 505.5	20805	50	0	20	2 519.9	20949	100	0	20.71	0.118
	20	2 510.0	20850	100	0	10	2 524.4	20994	50	0	20.37	0.109
	15	2 507.5	20825	75	0	15	2 522.5	20975	75	0	20.78	0.120
	15	2 507.5	20825	75	0	10	2 519.5	20945	50	0	20.92	0.124
	15	2 507.8	20828	75	0	20	2 524.9	20999	100	0	20.77	0.119
	20	2 510.0	20850	100	0	15	2 527.1	21021	75	0	20.67	0.117
	20	2 510.0	20850	100	0	20	2 529.8	21048	100	0	20.66	0.116
Middle	10	2 525.6	21006	50	0	20	2 540.0	21150	100	0	**21.09**	**0.129**
	20	2 530.1	21051	100	0	10	2 544.5	21195	50	0	20.95	0.124
	15	2 527.5	21025	75	0	15	2 542.5	21175	75	0	20.78	0.120
	15	2 530.1	21051	75	0	10	2 542.1	21171	50	0	20.89	0.123
	15	2 525.3	21003	75	0	20	2 542.4	21174	100	0	20.84	0.121
	20	2 527.6	21026	100	0	15	2 544.7	21197	75	0	20.81	0.121
	20	2 525.1	21001	100	0	20	2 544.9	21199	100	0	20.78	0.120
High	10	2 545.6	21206	50	0	20	2 560.0	21350	100	0	20.32	0.108
	20	2 550.1	21251	100	0	10	2 564.5	21395	50	0	20.35	0.108
	15	2 547.5	21225	75	0	15	2 562.5	21375	75	0	20.45	0.111
	15	2 552.7	21277	75	0	10	2 564.7	21397	50	0	20.41	0.110
	15	2 542.9	21179	75	0	20	2 560.0	21350	100	0	20.38	0.109
	20	2 545.1	21201	100	0	15	2 562.2	21372	75	0	20.39	0.109
	20	2 540.2	21152	100	0	20	2 560.0	21350	100	0	20.51	0.112

Note;

16QAM Modulation with Full RB

ULCA 12B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	701.5	23035	1	24	5	706.3	23083	1	0	**22.92**	**0.196**
	5	701.8	23038	1	24	10	709.0	23110	1	0	22.89	0.195
Middle	5	705.1	23071	1	24	5	709.9	23119	1	0	22.84	0.192
	5	702.8	23048	1	24	10	710.0	23120	1	0	22.86	0.193
High	5	708.7	23107	1	24	5	713.5	23155	1	0	22.91	0.195
	5	703.8	23058	1	24	10	711.0	23130	1	0	22.83	0.192

Note;

QPSK Modulation with 1 RB

ULCA 12B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	701.5	23035	1	24	5	706.3	23083	1	0	**22.48**	**0.177**
	5	701.8	23038	1	24	10	709.0	23110	1	0	22.32	0.171
Middle	5	705.1	23071	1	24	5	709.9	23119	1	0	22.36	0.172
	5	702.8	23048	1	24	10	710.0	23120	1	0	22.35	0.172
High	5	708.7	23107	1	24	5	713.5	23155	1	0	22.24	0.167
	5	703.8	23058	1	24	10	711.0	23130	1	0	22.29	0.169

Note;

16QAM Modulation with 1 RB

ULCA 12B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	701.5	23035	25	0	5	706.3	23083	25	0	**21.33**	**0.136**
	5	701.8	23038	25	0	10	709.0	23110	50	0	21.26	0.134
Middle	5	705.1	23071	25	0	5	709.9	23119	25	0	21.22	0.132
	5	702.8	23048	25	0	10	710.0	23120	50	0	21.14	0.130
High	5	708.7	23107	25	0	5	713.5	23155	25	0	21.19	0.132
	5	703.8	23058	25	0	10	711.0	23130	50	0	21.23	0.133

Note;

QPSK Modulation with Full RB

ULCA 12B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	701.5	23035	25	0	5	706.3	23083	25	0	20.32	0.108
	5	701.8	23038	25	0	10	709.0	23110	50	0	20.31	0.107
Middle	5	705.1	23071	25	0	5	709.9	23119	25	0	20.16	0.104
	5	702.8	23048	25	0	10	710.0	23120	50	0	20.20	0.105
High	5	708.7	23107	25	0	5	713.5	23155	25	0	20.28	0.107
	5	703.8	23058	25	0	10	711.0	23130	50	0	**20.33**	**0.108**

Note;

16QAM Modulation with Full RB

ULCA 41C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	2 499.3	39683	1	24	20	2 511.0	39800	1	0	23.38	0.218
	20	2 506.0	39750	1	99	5	2 517.7	39867	1	0	23.10	0.204
	10	2 501.3	39703	1	49	15	2 513.3	39823	1	0	23.13	0.206
	15	2 503.5	39725	1	74	10	2 515.5	39845	1	0	23.12	0.205
	10	2 501.5	39705	1	49	20	2 515.9	39849	1	0	23.22	0.210
	20	2 506.0	39750	1	99	10	2 520.4	39894	1	0	23.15	0.207
	15	2 503.5	39725	1	74	15	2 518.5	39875	1	0	23.13	0.206
	15	2 503.8	39728	1	74	20	2 520.9	39899	1	0	23.32	0.215
	20	2 506.0	39750	1	99	15	2 523.1	39921	1	0	23.21	0.209
	20	2 506.0	39750	1	99	20	2 525.8	39948	1	0	22.26	0.168
Middle	5	2 583.8	40528	1	24	20	2 595.5	40645	1	0	23.05	0.202
	20	2 590.5	40595	1	99	5	2 602.2	40712	1	0	23.15	0.207
	10	2 585.9	40549	1	49	15	2 597.9	40669	1	0	23.05	0.202
	15	2 588.1	40571	1	74	10	2 600.1	40691	1	0	23.11	0.205
	10	2 583.6	40526	1	49	20	2 598.0	40670	1	0	23.16	0.207
	20	2 588.1	40571	1	99	10	2 602.5	40715	1	0	23.14	0.206
	15	2 585.5	40545	1	74	15	2 600.5	40695	1	0	23.07	0.203
	15	2 583.3	40523	1	74	20	2 600.4	40694	1	0	23.16	0.207
	20	2 585.6	40546	1	99	15	2 602.7	40717	1	0	23.14	0.206
	20	2 583.1	40521	1	99	20	2 602.9	40719	1	0	23.11	0.205
High	5	2 668.3	41373	1	24	20	2 680.0	41490	1	0	23.15	0.207
	20	2 675.0	41440	1	99	5	2 686.7	41557	1	0	23.31	0.214
	10	2 670.5	41395	1	49	15	2 682.5	41515	1	0	22.88	0.194
	15	2 672.7	41417	1	74	10	2 684.7	41537	1	0	23.18	0.208
	10	2 665.6	41346	1	49	20	2 680.0	41490	1	0	23.39	0.218
	20	2 670.1	41391	1	99	10	2 684.5	41535	1	0	23.23	0.210
	15	2 667.5	41365	1	74	15	2 682.5	41515	1	0	**23.40**	**0.219**
	15	2 662.9	41319	1	74	20	2 680.0	41490	1	0	23.24	0.211
	20	2 665.1	41341	1	99	15	2 682.2	41512	1	0	23.18	0.208
	20	2 660.2	41292	1	99	20	2 680.0	41490	1	0	23.16	0.207

Note;

QPSK Modulation with 1 RB

ULCA 41C												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	2 499.3	39683	1	24	20	2 511.0	39800	1	0	**22.45**	**0.176**
	20	2 506.0	39750	1	99	5	2 517.7	39867	1	0	22.08	0.161
	10	2 501.3	39703	1	49	15	2 513.3	39823	1	0	22.04	0.160
	15	2 503.5	39725	1	74	10	2 515.5	39845	1	0	22.06	0.161
	10	2 501.5	39705	1	49	20	2 515.9	39849	1	0	22.08	0.161
	20	2 506.0	39750	1	99	10	2 520.4	39894	1	0	21.99	0.158
	15	2 503.5	39725	1	74	15	2 518.5	39875	1	0	22.04	0.160
	15	2 503.8	39728	1	74	20	2 520.9	39899	1	0	22.12	0.163
	20	2 506.0	39750	1	99	15	2 523.1	39921	1	0	22.05	0.160
	20	2 506.0	39750	1	99	20	2 525.8	39948	1	0	22.03	0.160
Middle	5	2 583.8	40528	1	24	20	2 595.5	40645	1	0	22.36	0.172
	20	2 590.5	40595	1	99	5	2 602.2	40712	1	0	22.32	0.171
	10	2 585.9	40549	1	49	15	2 597.9	40669	1	0	22.11	0.163
	15	2 588.1	40571	1	74	10	2 600.1	40691	1	0	22.03	0.160
	10	2 583.6	40526	1	49	20	2 598.0	40670	1	0	22.05	0.160
	20	2 588.1	40571	1	99	10	2 602.5	40715	1	0	22.09	0.162
	15	2 585.5	40545	1	74	15	2 600.5	40695	1	0	22.05	0.160
	15	2 583.3	40523	1	74	20	2 600.4	40694	1	0	22.10	0.162
	20	2 585.6	40546	1	99	15	2 602.7	40717	1	0	22.03	0.160
	20	2 583.1	40521	1	99	20	2 602.9	40719	1	0	22.08	0.161
High	5	2 668.3	41373	1	24	20	2 680.0	41490	1	0	22.16	0.164
	20	2 675.0	41440	1	99	5	2 686.7	41557	1	0	22.17	0.165
	10	2 670.5	41395	1	49	15	2 682.5	41515	1	0	22.21	0.166
	15	2 672.7	41417	1	74	10	2 684.7	41537	1	0	22.15	0.164
	10	2 665.6	41346	1	49	20	2 680.0	41490	1	0	22.06	0.161
	20	2 670.1	41391	1	99	10	2 684.5	41535	1	0	22.03	0.160
	15	2 667.5	41365	1	74	15	2 682.5	41515	1	0	21.98	0.158
	15	2 662.9	41319	1	74	20	2 680.0	41490	1	0	22.03	0.160
	20	2 665.1	41341	1	99	15	2 682.2	41512	1	0	22.01	0.159
	20	2 660.2	41292	1	99	20	2 680.0	41490	1	0	22.45	0.176

Note;

16QAM Modulation with 1 RB

ULCA 41C												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	2 499.3	39683	25	0	20	2 511.0	39800	100	0	21.40	0.138
	20	2 506.0	39750	100	0	5	2 517.7	39867	25	0	21.45	0.140
	10	2 501.3	39703	50	0	15	2 513.3	39823	75	0	21.39	0.138
	15	2 503.5	39725	75	0	10	2 515.5	39845	50	0	21.37	0.137
	10	2 501.5	39705	50	0	20	2 515.9	39849	100	0	21.47	0.140
	20	2 506.0	39750	100	0	10	2 520.4	39894	50	0	21.46	0.140
	15	2 503.5	39725	75	0	15	2 518.5	39875	75	0	21.33	0.136
	15	2 503.8	39728	75	0	20	2 520.9	39899	100	0	21.54	0.143
	20	2 506.0	39750	100	0	15	2 523.1	39921	75	0	21.49	0.141
	20	2 506.0	39750	100	0	20	2 525.8	39948	100	0	21.53	0.142
Middle	5	2 583.8	40528	25	0	20	2 595.5	40645	100	0	21.41	0.138
	20	2 590.5	40595	100	0	5	2 602.2	40712	25	0	21.38	0.137
	10	2 585.9	40549	50	0	15	2 597.9	40669	75	0	21.31	0.135
	15	2 588.1	40571	75	0	10	2 600.1	40691	50	0	21.23	0.133
	10	2 583.6	40526	50	0	20	2 598.0	40670	100	0	21.41	0.138
	20	2 588.1	40571	100	0	10	2 602.5	40715	50	0	21.17	0.131
	15	2 585.5	40545	75	0	15	2 600.5	40695	75	0	21.31	0.135
	15	2 583.3	40523	75	0	20	2 600.4	40694	100	0	21.33	0.136
	20	2 585.6	40546	100	0	15	2 602.7	40717	75	0	21.36	0.137
	20	2 583.1	40521	100	0	20	2 602.9	40719	100	0	21.41	0.138
High	5	2 668.3	41373	25	0	20	2 680.0	41490	100	0	21.43	0.139
	20	2 675.0	41440	100	0	5	2 686.7	41557	25	0	21.63	0.146
	10	2 670.5	41395	50	0	15	2 682.5	41515	75	0	21.51	0.142
	15	2 672.7	41417	75	0	10	2 684.7	41537	50	0	21.26	0.134
	10	2 665.6	41346	50	0	20	2 680.0	41490	100	0	21.11	0.129
	20	2 670.1	41391	100	0	10	2 684.5	41535	50	0	21.71	0.148
	15	2 667.5	41365	75	0	15	2 682.5	41515	75	0	21.23	0.133
	15	2 662.9	41319	75	0	20	2 680.0	41490	100	0	21.25	0.133
	20	2 665.1	41341	100	0	15	2 682.2	41512	75	0	**21.76**	**0.150**
	20	2 660.2	41292	100	0	20	2 680.0	41490	100	0	21.11	0.129

Note;

QPSK Modulation with Full RB

ULCA 41C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	2 499.3	39683	25	0	20	2 511.0	39800	100	0	20.36	0.109
	20	2 506.0	39750	100	0	5	2 517.7	39867	25	0	20.56	0.114
	10	2 501.3	39703	50	0	15	2 513.3	39823	75	0	20.43	0.110
	15	2 503.5	39725	75	0	10	2 515.5	39845	50	0	20.42	0.110
	10	2 501.5	39705	50	0	20	2 515.9	39849	100	0	20.43	0.110
	20	2 506.0	39750	100	0	10	2 520.4	39894	50	0	20.37	0.109
	15	2 503.5	39725	75	0	15	2 518.5	39875	75	0	20.50	0.112
	15	2 503.8	39728	75	0	20	2 520.9	39899	100	0	20.48	0.112
	20	2 506.0	39750	100	0	15	2 523.1	39921	75	0	20.58	0.114
	20	2 506.0	39750	100	0	20	2 525.8	39948	100	0	20.61	0.115
Middle	5	2 583.8	40528	25	0	20	2 595.5	40645	100	0	20.41	0.110
	20	2 590.5	40595	100	0	5	2 602.2	40712	25	0	20.54	0.113
	10	2 585.9	40549	50	0	15	2 597.9	40669	75	0	20.39	0.109
	15	2 588.1	40571	75	0	10	2 600.1	40691	50	0	20.44	0.111
	10	2 583.6	40526	50	0	20	2 598.0	40670	100	0	20.45	0.111
	20	2 588.1	40571	100	0	10	2 602.5	40715	50	0	20.41	0.110
	15	2 585.5	40545	75	0	15	2 600.5	40695	75	0	20.46	0.111
	15	2 583.3	40523	75	0	20	2 600.4	40694	100	0	20.42	0.110
	20	2 585.6	40546	100	0	15	2 602.7	40717	75	0	20.45	0.111
	20	2 583.1	40521	100	0	20	2 602.9	40719	100	0	20.54	0.113
High	5	2 668.3	41373	25	0	20	2 680.0	41490	100	0	20.42	0.110
	20	2 675.0	41440	100	0	5	2 686.7	41557	25	0	20.49	0.112
	10	2 670.5	41395	50	0	15	2 682.5	41515	75	0	**20.84**	**0.121**
	15	2 672.7	41417	75	0	10	2 684.7	41537	50	0	20.61	0.115
	10	2 665.6	41346	50	0	20	2 680.0	41490	100	0	20.32	0.108
	20	2 670.1	41391	100	0	10	2 684.5	41535	50	0	20.54	0.113
	15	2 667.5	41365	75	0	15	2 682.5	41515	75	0	20.59	0.115
	15	2 662.9	41319	75	0	20	2 680.0	41490	100	0	20.43	0.110
	20	2 665.1	41341	100	0	15	2 682.2	41512	75	0	20.25	0.106
	20	2 660.2	41292	100	0	20	2 680.0	41490	100	0	20.36	0.109

Note;

16QAM Modulation with Full RB

ULCA 66B													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	1 712.5	131997	1	24	5	1 717.3	132045	1	0	23.06	0.202
	5	1 712.8	132000	1	24	10	1 720.0	132072	1	0	22.67	0.185
	10	1 715.0	132022	1	49	5	1 722.2	132094	1	0	23.11	0.205
	5	1 713.0	132002	1	24	15	1 722.3	132095	1	0	23.12	0.205
	15	1 717.5	132047	1	74	5	1 726.8	132140	1	0	**23.13**	**0.206**
	10	1 715.0	132022	1	49	10	1 724.9	132121	1	0	22.98	0.199
Middle	5	1 752.6	132398	1	24	5	1 757.4	132446	1	0	22.89	0.195
	5	1 750.3	132375	1	24	10	1 757.5	132447	1	0	22.72	0.187
	10	1 752.5	132397	1	49	5	1 759.7	132469	1	0	22.84	0.192
	5	1 748.1	132353	1	24	15	1 757.4	132446	1	0	22.71	0.187
	15	1 752.6	132398	1	74	5	1 761.9	132491	1	0	22.86	0.193
	10	1 750.1	132373	1	49	10	1 760.0	132472	1	0	22.86	0.193
High	5	1 772.7	132599	1	24	5	1 777.5	132647	1	0	23.03	0.201
	5	1 767.8	132550	1	24	10	1 775.0	132622	1	0	22.76	0.189
	10	1 770.0	132572	1	49	5	1 777.2	132644	1	0	23.11	0.205
	5	1 763.2	132504	1	24	15	1 772.5	132597	1	0	22.89	0.195
	15	1 767.7	132549	1	74	5	1 777.0	132642	1	0	22.94	0.197
	10	1 765.1	132523	1	49	10	1 775.0	132622	1	0	22.97	0.198

Note;

QPSK Modulation with 1 RB

ULCA 66B													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	1 712.5	131997	1	24	5	1 717.3	132045	1	0	22.67	0.170
	5	1 712.8	132000	1	24	10	1 720.0	132072	1	0	22.31	0.170
	10	1 715.0	132022	1	49	5	1 722.2	132094	1	0	22.69	0.186
	5	1 713.0	132002	1	24	15	1 722.3	132095	1	0	22.71	0.187
	15	1 717.5	132047	1	74	5	1 726.8	132140	1	0	**22.74**	**0.188**
	10	1 715.0	132022	1	49	10	1 724.9	132121	1	0	22.49	0.177
Middle	5	1 752.6	132398	1	24	5	1 757.4	132446	1	0	22.12	0.163
	5	1 750.3	132375	1	24	10	1 757.5	132447	1	0	22.13	0.163
	10	1 752.5	132397	1	49	5	1 759.7	132469	1	0	22.08	0.161
	5	1 748.1	132353	1	24	15	1 757.4	132446	1	0	22.11	0.163
	15	1 752.6	132398	1	74	5	1 761.9	132491	1	0	22.03	0.160
	10	1 750.1	132373	1	49	10	1 760.0	132472	1	0	22.05	0.160
High	5	1 772.7	132599	1	24	5	1 777.5	132647	1	0	22.56	0.180
	5	1 767.8	132550	1	24	10	1 775.0	132622	1	0	22.22	0.167
	10	1 770.0	132572	1	49	5	1 777.2	132644	1	0	22.42	0.175
	5	1 763.2	132504	1	24	15	1 772.5	132597	1	0	22.45	0.176
	15	1 767.7	132549	1	74	5	1 777.0	132642	1	0	22.31	0.170
	10	1 765.1	132523	1	49	10	1 775.0	132622	1	0	22.26	0.168

Note;

16QAM Modulation with 1 RB

ULCA 66B												
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	1 712.5	131997	25	0	5	1 717.3	132045	25	0	**21.77**	**0.150**
	5	1 712.8	132000	25	0	10	1 720.0	132072	50	0	21.12	0.129
	10	1 715.0	132022	50	0	5	1 722.2	132094	25	0	21.68	0.147
	5	1 713.0	132002	25	0	15	1 722.3	132095	75	0	21.64	0.146
	15	1 717.5	132047	75	0	5	1 726.8	132140	25	0	21.73	0.149
	10	1 715.0	132022	50	0	10	1 724.9	132121	50	0	21.61	0.145
Middle	5	1 752.6	132398	25	0	5	1 757.4	132446	25	0	21.18	0.131
	5	1 750.3	132375	25	0	10	1 757.5	132447	50	0	21.70	0.148
	10	1 752.5	132397	50	0	5	1 759.7	132469	25	0	21.63	0.146
	5	1 748.1	132353	25	0	15	1 757.4	132446	75	0	21.45	0.140
	15	1 752.6	132398	75	0	5	1 761.9	132491	25	0	21.55	0.143
	10	1 750.1	132373	50	0	10	1 760.0	132472	50	0	21.58	0.144
High	5	1 772.7	132599	25	0	5	1 777.5	132647	25	0	21.32	0.136
	5	1 767.8	132550	25	0	10	1 775.0	132622	50	0	21.12	0.129
	10	1 770.0	132572	50	0	5	1 777.2	132644	25	0	21.22	0.132
	5	1 763.2	132504	25	0	15	1 772.5	132597	75	0	21.45	0.140
	15	1 767.7	132549	75	0	5	1 777.0	132642	25	0	21.37	0.137
	10	1 765.1	132523	50	0	10	1 775.0	132622	50	0	21.38	0.137

Note;

QPSK Modulation with Full RB

ULCA 66B													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	5	1 712.5	131997	25	0	5	1 717.3	132045	25	0	20.61	0.115
	5	1 712.8	132000	25	0	10	1 720.0	132072	50	0	20.02	0.100
	10	1 715.0	132022	50	0	5	1 722.2	132094	25	0	20.54	0.113
	5	1 713.0	132002	25	0	15	1 722.3	132095	75	0	20.65	0.116
	15	1 717.5	132047	75	0	5	1 726.8	132140	25	0	20.66	0.116
	10	1 715.0	132022	50	0	10	1 724.9	132121	50	0	20.31	0.107
Middle	5	1 752.6	132398	25	0	5	1 757.4	132446	25	0	20.36	0.109
	5	1 750.3	132375	25	0	10	1 757.5	132447	50	0	20.65	0.116
	10	1 752.5	132397	50	0	5	1 759.7	132469	25	0	20.45	0.111
	5	1 748.1	132353	25	0	15	1 757.4	132446	75	0	20.51	0.112
	15	1 752.6	132398	75	0	5	1 761.9	132491	25	0	20.47	0.111
	10	1 750.1	132373	50	0	10	1 760.0	132472	50	0	20.42	0.110
High	5	1 772.7	132599	25	0	5	1 777.5	132647	25	0	**20.67**	**0.117**
	5	1 767.8	132550	25	0	10	1 775.0	132622	50	0	20.54	0.113
	10	1 770.0	132572	50	0	5	1 777.2	132644	25	0	20.66	0.116
	5	1 763.2	132504	25	0	15	1 772.5	132597	75	0	20.47	0.111
	15	1 767.7	132549	75	0	5	1 777.0	132642	25	0	20.41	0.110
	10	1 765.1	132523	50	0	10	1 775.0	132622	50	0	20.63	0.116

Note;

16QAM Modulation with Full RB

ULCA 66C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	10	1 715.3	132025	1	49	15	1 727.3	132145	1	0	22.75	0.188
	15	1 717.5	132047	1	74	10	1 729.5	132167	1	0	22.56	0.180
	10	1 715.5	132027	1	49	20	1 729.9	132171	1	0	22.59	0.182
	20	1 720.0	132072	1	99	10	1 734.4	132216	1	0	**23.05**	**0.202**
	15	1 717.5	132047	1	74	15	1 732.5	132197	1	0	22.73	0.187
	15	1 717.8	132050	1	74	20	1 734.9	132221	1	0	22.54	0.179
	20	1 720.0	132072	1	99	15	1 737.1	132243	1	0	22.84	0.192
	20	1 720.0	132072	1	99	5	1 731.7	132189	1	0	22.80	0.191
	5	1 713.3	132005	1	24	20	1 725.0	132122	1	0	22.78	0.190
	20	1 720.0	132072	1	99	20	1 739.8	132270	1	0	22.79	0.190
Middle	10	1 747.9	132351	1	49	15	1 759.9	132471	1	0	22.54	0.179
	15	1 750.1	132373	1	74	10	1 762.1	132493	1	0	22.39	0.173
	10	1 745.6	132328	1	49	20	1 760.0	132472	1	0	22.21	0.166
	20	1 750.1	132373	1	99	10	1 764.5	132517	1	0	22.68	0.185
	15	1 747.5	132347	1	74	15	1 762.5	132497	1	0	22.43	0.175
	15	1 745.3	132325	1	74	20	1 762.4	132496	1	0	22.31	0.170
	20	1 747.6	132348	1	99	15	1 764.7	132519	1	0	22.44	0.175
	20	1 752.5	132397	1	99	5	1 764.2	132514	1	0	22.51	0.178
	5	1 745.8	132330	1	24	20	1 757.5	132447	1	0	22.78	0.190
	20	1 745.1	132323	1	99	20	1 764.9	132521	1	0	22.48	0.177
High	10	1 760.5	132477	1	49	15	1 772.5	132597	1	0	22.31	0.170
	15	1 762.7	132499	1	74	10	1 774.7	132619	1	0	22.21	0.166
	10	1 755.6	132428	1	49	20	1 770.0	132572	1	0	22.36	0.172
	20	1 760.1	132473	1	99	10	1 774.5	132617	1	0	22.23	0.167
	15	1 757.5	132447	1	74	15	1 772.5	132597	1	0	22.56	0.180
	15	1 752.9	132401	1	74	20	1 770.0	132572	1	0	22.67	0.185
	20	1 755.1	132423	1	99	15	1 772.2	132594	1	0	22.27	0.169
	20	1 765.0	132522	1	99	5	1 776.7	132639	1	0	22.43	0.175
	5	1 758.3	132455	1	24	20	1 770.0	132572	1	0	22.12	0.163
	20	1 750.2	132374	1	99	20	1 770.0	132572	1	0	21.91	0.155

Note;

QPSK Modulation with 1 RB

ULCA 66C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(dB m)	(W)
Low	10	1 715.3	132025	1	49	15	1 727.3	132145	1	0	22.16	0.164
	15	1 717.5	132047	1	74	10	1 729.5	132167	1	0	22.09	0.162
	10	1 715.5	132027	1	49	20	1 729.9	132171	1	0	22.09	0.162
	20	1 720.0	132072	1	99	10	1 734.4	132216	1	0	**22.54**	**0.179**
	15	1 717.5	132047	1	74	15	1 732.5	132197	1	0	22.23	0.167
	15	1 717.8	132050	1	74	20	1 734.9	132221	1	0	22.05	0.160
	20	1 720.0	132072	1	99	15	1 737.1	132243	1	0	22.11	0.163
	20	1 720.0	132072	1	99	5	1 731.7	132189	1	0	22.31	0.170
	5	1 713.3	132005	1	24	20	1 725.0	132122	1	0	22.32	0.171
	20	1 720.0	132072	1	99	20	1 739.8	132270	1	0	22.31	0.170
Middle	10	1 747.9	132351	1	49	15	1 759.9	132471	1	0	22.43	0.175
	15	1 750.1	132373	1	74	10	1 762.1	132493	1	0	21.97	0.157
	10	1 745.6	132328	1	49	20	1 760.0	132472	1	0	22.34	0.171
	20	1 750.1	132373	1	99	10	1 764.5	132517	1	0	22.38	0.173
	15	1 747.5	132347	1	74	15	1 762.5	132497	1	0	22.16	0.164
	15	1 745.3	132325	1	74	20	1 762.4	132496	1	0	22.32	0.171
	20	1 747.6	132348	1	99	15	1 764.7	132519	1	0	22.03	0.160
	20	1 752.5	132397	1	99	5	1 764.2	132514	1	0	22.32	0.171
	5	1 745.8	132330	1	24	20	1 757.5	132447	1	0	22.15	0.164
	20	1 745.1	132323	1	99	20	1 764.9	132521	1	0	22.04	0.160
High	10	1 760.5	132477	1	49	15	1 772.5	132597	1	0	21.72	0.149
	15	1 762.7	132499	1	74	10	1 774.7	132619	1	0	21.85	0.153
	10	1 755.6	132428	1	49	20	1 770.0	132572	1	0	21.73	0.149
	20	1 760.1	132473	1	99	10	1 774.5	132617	1	0	21.68	0.147
	15	1 757.5	132447	1	74	15	1 772.5	132597	1	0	21.77	0.150
	15	1 752.9	132401	1	74	20	1 770.0	132572	1	0	21.32	0.136
	20	1 755.1	132423	1	99	15	1 772.2	132594	1	0	21.67	0.147
	20	1 765.0	132522	1	99	5	1 776.7	132639	1	0	21.68	0.147
	20	1 758.3	132455	1	24	20	1 770.0	132572	1	0	21.62	0.145
	20	1 750.2	132374	1	99	20	1 770.0	132572	1	0	21.59	0.144

Note;

16QAM Modulation with 1 RB

ULCA 66C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(dB m)	(W)
Low	10	1 715.3	132025	50	0	15	1 727.3	132145	75	0	20.54	0.113
	15	1 717.5	132047	75	0	10	1 729.5	132167	50	0	20.43	0.110
	10	1 715.5	132027	50	0	20	1 729.9	132171	100	0	20.34	0.108
	20	1 720.0	132072	100	0	10	1 734.4	132216	50	0	20.52	0.113
	15	1 717.5	132047	75	0	15	1 732.5	132197	75	0	20.16	0.104
	15	1 717.8	132050	75	0	20	1 734.9	132221	100	0	20.89	0.123
	20	1 720.0	132072	100	0	15	1 737.1	132243	75	0	20.98	0.125
	20	1 720.0	132072	100	0	5	1 731.7	132189	25	0	20.51	0.112
	5	1 713.3	132005	25	0	20	1 725.0	132122	100	0	19.89	0.097
	20	1 720.0	132072	100	0	20	1 739.8	132270	100	0	**21.16**	**0.131**
Middle	10	1 747.9	132351	50	0	15	1 759.9	132471	75	0	20.21	0.105
	15	1 750.1	132373	75	0	10	1 762.1	132493	50	0	20.15	0.104
	10	1 745.6	132328	50	0	20	1 760.0	132472	100	0	20.11	0.103
	20	1 750.1	132373	100	0	10	1 764.5	132517	50	0	20.04	0.101
	15	1 747.5	132347	75	0	15	1 762.5	132497	75	0	20.45	0.111
	15	1 745.3	132325	75	0	20	1 762.4	132496	100	0	19.91	0.098
	20	1 747.6	132348	100	0	15	1 764.7	132519	75	0	20.31	0.107
	20	1 752.5	132397	100	0	5	1 764.2	132514	25	0	20.54	0.113
	5	1 745.8	132330	25	0	20	1 757.5	132447	100	0	20.31	0.107
	20	1 745.1	132323	100	0	20	1 764.9	132521	100	0	20.86	0.122
High	10	1 760.5	132477	50	0	15	1 772.5	132597	75	0	21.11	0.129
	15	1 762.7	132499	75	0	10	1 774.7	132619	50	0	20.95	0.124
	10	1 755.6	132428	50	0	20	1 770.0	132572	100	0	21.04	0.127
	20	1 760.1	132473	100	0	10	1 774.5	132617	50	0	20.79	0.120
	15	1 757.5	132447	75	0	15	1 772.5	132597	75	0	21.04	0.127
	15	1 752.9	132401	75	0	20	1 770.0	132572	100	0	21.11	0.129
	20	1 755.1	132423	100	0	15	1 772.2	132594	75	0	20.96	0.125
	20	1 765.0	132522	100	0	5	1 776.7	132639	25	0	20.87	0.122
	20	1 758.3	132455	25	0	20	1 770.0	132572	100	0	20.68	0.117
	20	1 750.2	132374	100	0	20	1 770.0	132572	100	0	20.65	0.116

Note;

QPSK Modulation with Full RB

ULCA 66C													
Ch.	PCC					SCC					Power	
	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	BW [㎒]	Freq. [㎒]	Ch.	RB	RB Offset	(㏈m)	(W)
Low	10	1 715.3	132025	50	0	15	1 727.3	132145	75	0	19.43	0.088
	15	1 717.5	132047	75	0	10	1 729.5	132167	50	0	19.21	0.083
	10	1 715.5	132027	50	0	20	1 729.9	132171	100	0	19.54	0.090
	20	1 720.0	132072	100	0	10	1 734.4	132216	50	0	19.35	0.086
	15	1 717.5	132047	75	0	15	1 732.5	132197	75	0	19.21	0.083
	15	1 717.8	132050	75	0	20	1 734.9	132221	100	0	19.38	0.087
	20	1 720.0	132072	100	0	15	1 737.1	132243	75	0	19.62	0.092
	20	1 720.0	132072	100	0	5	1 731.7	132189	25	0	19.74	0.094
	5	1 713.3	132005	25	0	20	1 725.0	132122	100	0	19.21	0.083
	20	1 720.0	132072	100	0	20	1 739.8	132270	100	0	19.62	0.092
Middle	10	1 747.9	132351	50	0	15	1 759.9	132471	75	0	19.32	0.086
	15	1 750.1	132373	75	0	10	1 762.1	132493	50	0	19.43	0.088
	10	1 745.6	132328	50	0	20	1 760.0	132472	100	0	19.17	0.083
	20	1 750.1	132373	100	0	10	1 764.5	132517	50	0	19.32	0.086
	15	1 747.5	132347	75	0	15	1 762.5	132497	75	0	19.23	0.084
	15	1 745.3	132325	75	0	20	1 762.4	132496	100	0	19.33	0.086
	20	1 747.6	132348	100	0	15	1 764.7	132519	75	0	19.15	0.082
	20	1 752.5	132397	100	0	5	1 764.2	132514	25	0	19.23	0.084
	5	1 745.8	132330	25	0	20	1 757.5	132447	100	0	19.41	0.087
	20	1 745.1	132323	100	0	20	1 764.9	132521	100	0	19.52	0.090
High	10	1 760.5	132477	50	0	15	1 772.5	132597	75	0	20.31	0.107
	15	1 762.7	132499	75	0	10	1 774.7	132619	50	0	20.36	0.109
	10	1 755.6	132428	50	0	20	1 770.0	132572	100	0	**20.41**	**0.110**
	20	1 760.1	132473	100	0	10	1 774.5	132617	50	0	20.37	0.109
	15	1 757.5	132447	75	0	15	1 772.5	132597	75	0	20.23	0.105
	15	1 752.9	132401	75	0	20	1 770.0	132572	100	0	20.35	0.108
	20	1 755.1	132423	100	0	15	1 772.2	132594	75	0	20.33	0.108
	20	1 765.0	132522	100	0	5	1 776.7	132639	25	0	20.27	0.106
	20	1 758.3	132455	25	0	20	1 770.0	132572	100	0	20.34	0.108
	20	1 750.2	132374	100	0	20	1 770.0	132572	100	0	20.31	0.107

Note;

16QAM Modulation with Full RB

4. Occupied Bandwidth

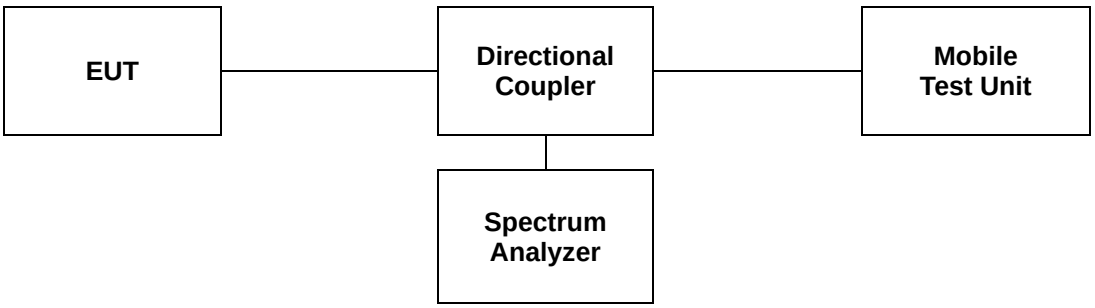
4.1. Limit

CFR 47, Section FCC §2.1049

4.2. Test Procedure

The test follows section 5.4.4 of ANSI C63.26-2015.

a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation. products including the emission skirts (typically a span of 1.5 × OBW is sufficient).
b. The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
d. Set the detection mode to peak, and the trace mode to max-hold.
e. If the instrument does not have a 99 % OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5 % of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5 % of the total is reached and record that frequency as the upper OBW frequency. The 99 % power OBW can be determined by computing the difference these two frequencies.
f. The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).



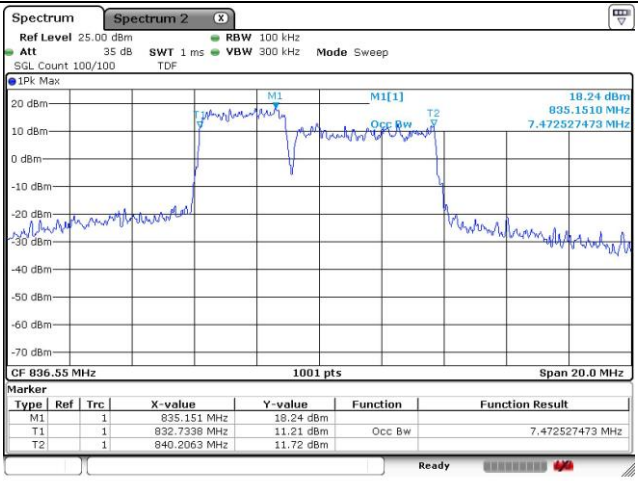
4.3 Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

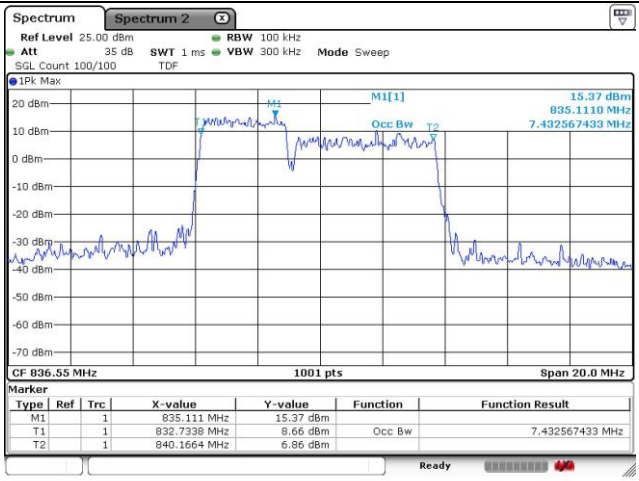
Band	PCC			SCC			Occupied Bandwidth (㎒)	
	BW (㎒)	Frequency (㎒)	Channel	BW (㎒)	Frequency (㎒)	Channel	QPSK	16QAM
5B	3	834.1	20501	5	838.0	20540	7.473	7.433
	5	835.0	20510	3	838.9	20549	7.473	7.453
	5	831.8	20478	10	839.0	20550	13.816	13.966
	10	834.0	20500	5	841.2	20572	13.906	13.846
	10	831.6	20476	10	841.5	20575	18.781	18.741
7C	10	2 525.6	21006	20	2 540.0	21150	27.932	27.872
	20	2 530.1	21051	10	2 544.5	21195	27.872	27.932
	15	2 530.1	21051	15	2 542.5	21175	28.531	28.472
	15	2 527.5	21025	10	2 542.5	21175	22.927	22.977
	15	2 525.3	21003	20	2 542.4	21174	32.867	32.657
	20	2 527.6	21026	15	2 544.7	21197	32.587	32.797
	20	2 525.1	21001	20	2 544.9	21199	37.642	37.722
12B	5	705.1	23071	5	709.9	23119	9.231	9.191
	5	702.8	23048	10	710.0	23120	13.846	13.756
41C	5	2 583.8	40528	20	2 595.5	40645	22.877	22.777
	20	2 590.5	40595	5	2 602.2	40712	22.827	22.827
	10	2 585.9	40549	15	2 597.9	40669	23.077	23.027
	15	2 588.1	40571	10	2 600.1	40691	23.177	23.127
	10	2 583.6	40526	20	2 598.0	40670	28.112	28.052
	20	2 588.1	40571	10	2 602.5	40715	28.112	28.112
	15	2 585.5	40545	15	2 600.5	40695	28.771	28.591
	15	2 583.3	40523	20	2 600.4	40694	32.867	33.007
	20	2 585.6	40546	15	2 602.7	40717	32.937	33.007
	20	2 583.1	40521	20	2 602.9	40719	37.802	37.722
66B	5	1 752.6	132398	5	1 757.4	132446	9.251	9.251
	5	1 750.3	132375	10	1 757.5	132447	13.876	13.846
	10	1 752.5	132397	5	1 759.7	132469	13.906	13.966
	5	1 748.1	132353	15	1 757.4	132446	18.142	18.102
	15	1 752.6	132398	5	1 761.9	132491	18.262	18.262
	10	1 750.1	132373	10	1 760.0	132472	18.741	18.262
66C	10	1 747.9	132351	15	1 759.9	132471	23.027	23.077
	15	1 750.1	132373	10	1 762.1	132493	23.027	23.077
	10	1 745.6	132328	20	1 760.0	132472	27.932	27.992
	20	1 750.1	132373	10	1 764.5	132517	28.052	28.052
	15	1 747.5	132347	15	1 762.5	132497	28.591	28.591
	15	1 745.3	132325	20	1 762.4	132496	32.797	32.867
	20	1 747.6	132348	15	1 764.7	132519	33.077	32.867
	20	1 752.5	132397	5	1 764.2	132514	22.777	22.777
	5	1 745.8	132330	20	1 757.5	132447	22.727	22.777
	20	1 745.1	132323	20	1 764.9	132521	37.882	37.562

- Test plots

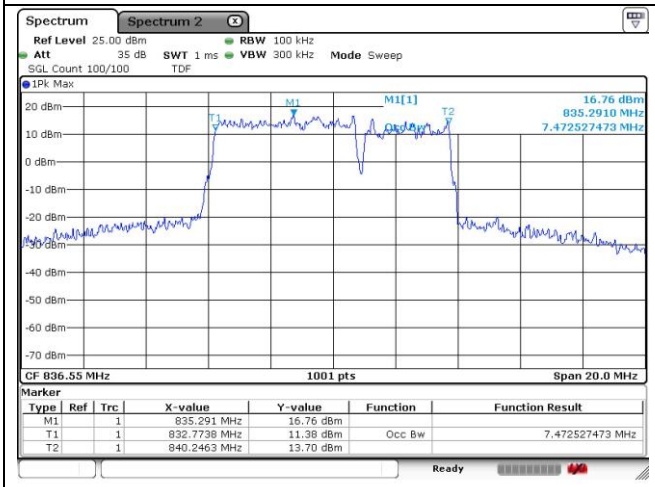
ULCA 5B



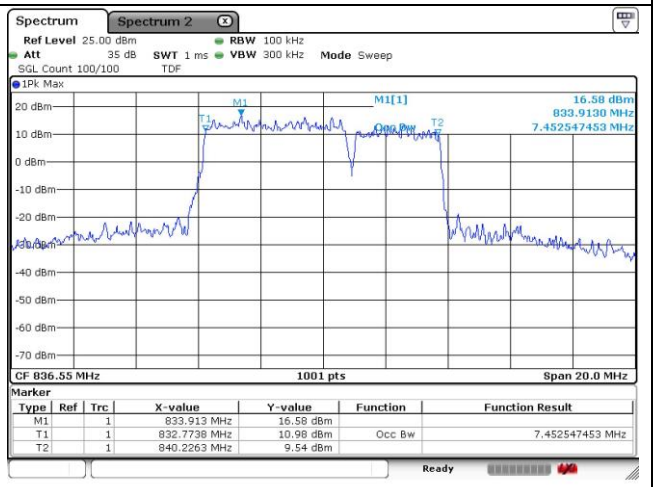
3 ㎒ + 5 ㎒ QPSK Middle Channel - Full RB



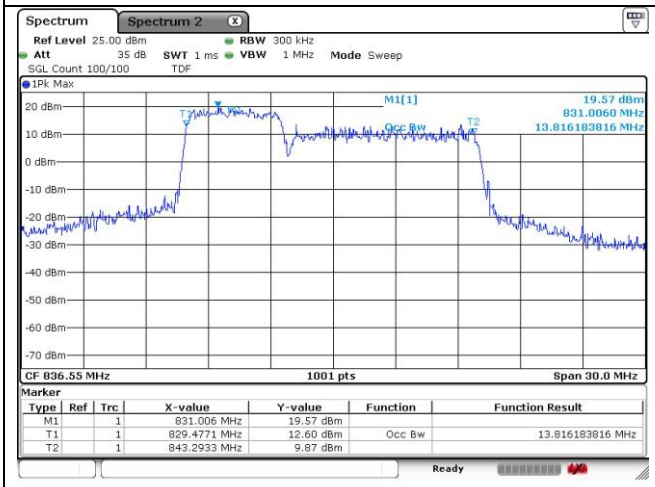
3 ㎒ + 5 ㎒ 16QAM Middle Channel - Full RB



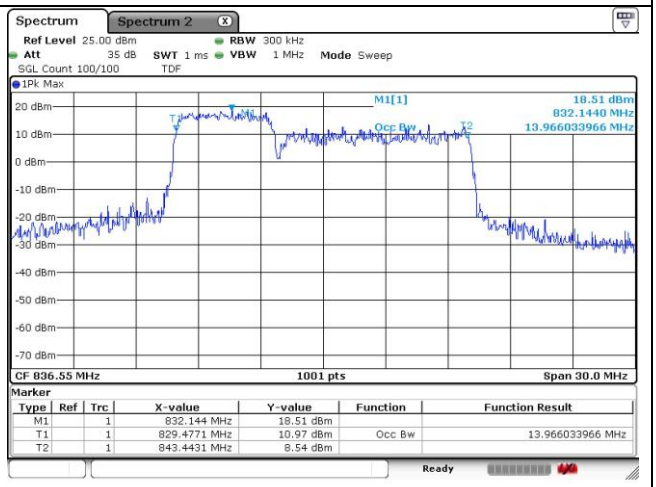
5 ㎒ + 3 ㎒ QPSK Middle Channel - Full RB



5 ㎒ + 3 ㎒ 16QAM Middle Channel - Full RB

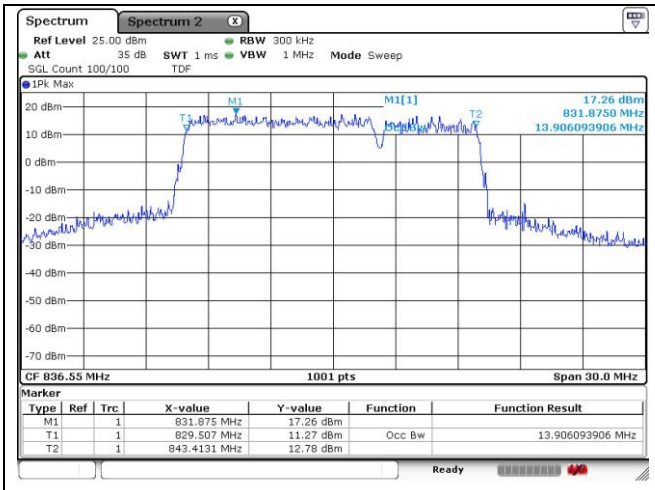


5 ㎒ + 10 ㎒ QPSK Middle Channel - Full RB

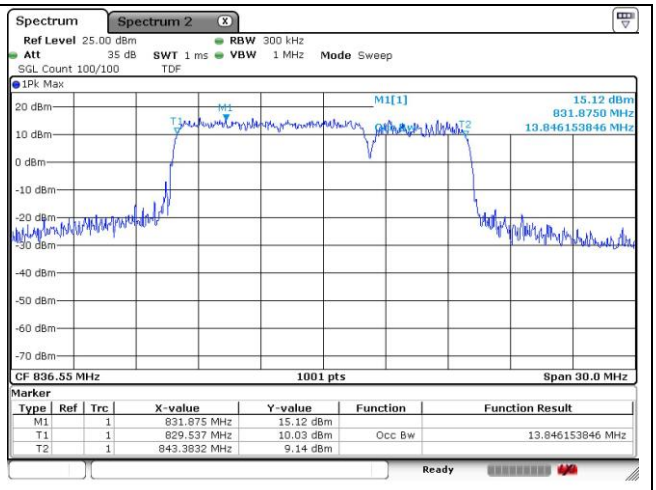


5 ㎒ + 10 ㎒ 16QAM Middle Channel - Full RB

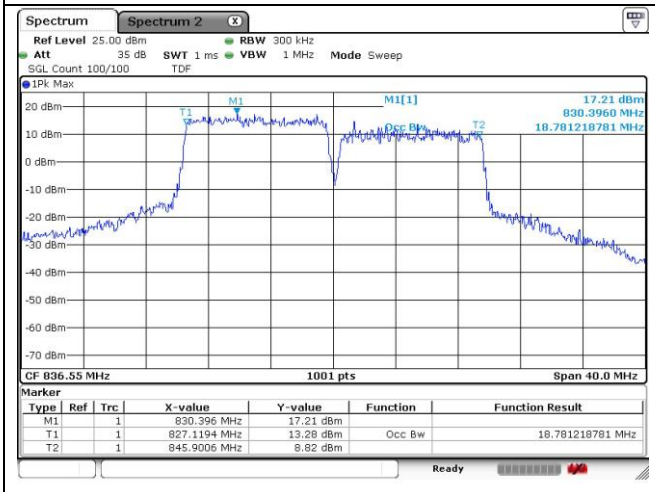
ULCA 5B



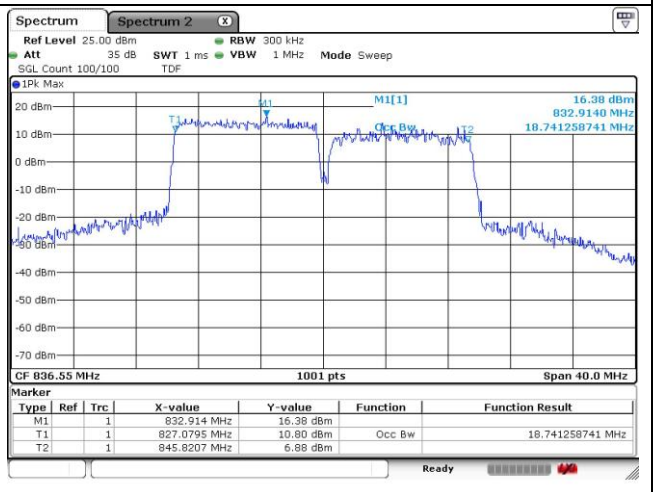
10 ㎒ + 5 ㎒ QPSK Middle Channel - Full RB



10 ㎒ + 5 ㎒ 16QAM Middle Channel - Full RB



10 ㎒ + 10 ㎒ QPSK Middle Channel - Full RB



10 ㎒ + 10 ㎒ 16QAM Middle Channel - Full RB