

Band	Beam_ID	Phi_DUT	Theta_DUT	Peak Tx EIRP (dBm)
n261	343	0	0	47.14
n261	351	150	15	46.93
n261	87	0	0	46.87
n261	352	120	15	46.75
n261	350	180	15	46.74
n261	98	60	15	46.72
n261	97	90	15	46.72
n261	374	300	30	46.68
n261	373	30	30	46.59
n261	353	90	15	46.58
n261	121	240	30	46.57
n261	99	30	15	46.57
n261	375	285	30	46.52
n261	122	225	30	46.49
n261	361	210	15	46.49
n261	370	15	30	46.45
n261	371	0	30	46.44
n261	132	60	30	46.38
n261	131	75	30	46.28
n261	105	210	15	46.27
n261	100	0	15	46.26
n261	359	270	15	46.26
n261	384	120	30	46.26
n261	120	255	30	46.25
n261	117	315	30	46.25
n261	277	240	30	46.25
n261	133	45	30	46.23
n261	383	135	30	46.23
n261	357	330	15	46.21
n261	385	305	30	46.21
n261	118	300	30	46.20
n261	95	165	15	46.18
n261	119	285	30	46.16
n261	94	180	15	46.15
n261	380	180	30	46.15
n261	104	240	15	46.15
n261	378	225	30	46.14
n261	382	150	30	46.14
n261	369	30	30	46.13
n261	381	165	30	46.13
n261	401	225	30	46.13
n261	358	300	15	46.12
n261	360	240	15	46.10
n261	355	30	15	46.08
n261	96	120	15	46.08
n261	356	0	15	46.08
n261	130	90	30	46.06
n261	103	270	15	46.05
n261	372	345	30	46.05
n261	354	60	15	46.03
n261	400	240	30	46.02
n261	134	30	30	46.01
n261	101	330	15	46.00
n261	386	90	30	45.99
n261	347	0	15	45.99
n261	402	210	30	45.93
n261	135	15	30	45.91
n261	376	270	30	45.90
n261	348	300	15	45.90
n261	129	105	30	45.89
n261	397	285	30	45.86
n261	102	300	15	45.86
n261	403	195	30	45.85
n261	106	180	30	45.82
n261	368	60	30	45.82
n261	367	75	30	45.78
n261	116	330	30	45.77
n261	128	120	30	45.75
n261	146	210	30	45.74
n261	107	165	30	45.73
n261	143	255	30	45.67
n261	114	15	30	45.67
n261	398	270	30	45.66
n261	136	0	30	45.65
n261	395	315	30	45.64
n261	399	255	30	45.63
n261	115	0	30	45.61
n261	123	210	30	45.60
n261	93	240	15	45.59
n261	145	225	30	45.57
n261	144	240	30	45.55
n261	387	75	30	45.55
n261	139	315	30	45.51
n261	362	180	30	45.51
n261	396	300	30	45.50
n261	394	330	30	45.48
n261	389	45	30	45.46
n261	109	270	30	45.46
n261	142	270	30	45.43
n261	147	195	30	45.41
n261	388	60	30	45.41
n261	110	105	30	45.39
n261	108	150	30	45.38
n261	127	135	30	45.38
n261	92	300	15	45.38
n261	138	330	30	45.33
n261	112	60	30	45.32
n261	379	210	30	45.32
n261	363	165	30	45.32
n261	88	195	15	45.28
n261	345	285	30	45.28
n261	365	120	30	45.23
n261	416	30	45	45.20
n261	366	90	30	45.19
n261	140	300	30	45.17
n261	390	30	30	45.15
n261	346	45	15	45.14
n261	391	15	30	45.13
n261	113	30	30	45.12
n261	126	150	30	45.11
n261	364	135	30	45.07
n261	137	345	30	45.05
n261	345	0	0	45.03
n261	111	75	30	45.03
n261	393	345	30	44.99
n261	91	0	15	44.94
n261	349	240	15	44.93
n261	415	45	45	44.93
n261	124	180	30	44.93
n261	125	165	30	44.87
n261	151	150	45	44.83
n261	164	245	45	44.83
n261	392	0	30	44.83
n261	90	0	0	44.82
n261	419	0	45	44.82
n261	344	0	0	44.67
n261	418	15	45	44.54
n261	433	195	45	44.54
n261	169	285	45	44.50
n261	430	225	45	44.48
n261	429	240	45	44.48
n261	165	330	45	44.41
n261	167	315	45	44.39
n261	89	0	0	44.38
n261	152	135	45	44.33
n261	168	300	45	44.31
n261	163	0	45	44.25
n261	149	165	45	44.25
n261	417	15	45	44.13
n261	148	180	45	44.21
n261	183	135	45	44.14
n261	428	255	45	44.14
n261	432	210	45	44.10
n261	414	90	30	44.09
n261	404	180	45	44.07
n261	420	345	45	44.07
n261	153	120	45	44.02

Band	Beam_ID	Phi_DUT	Theta_DUT	Peak Tx EIRP (dBm)
n260	343	0	0	47.14
n260	87	0	0	47.41
n260	101	330	15	47.25
n260	361	210	15	47.11
n260	100	0	15	47.11
n260	354	60	15	47.08
n260	360	240	15	46.96
n260	355	30	15	46.90
n260	96	135	15	46.88
n260	350	180	15	46.79
n260	353	90	15	46.67
n260	359	270	15	46.65
n260	356	0	15	46.65
n260	97	105	15	46.57
n260	102	300	15	46.56
n260	99	30	15	46.47
n260	95	150	15	46.43
n260	98	60	15	46.43
n260	169	285	45	46.35
n260	352	120	15	46.33
n260	358	300	15	46.29
n260	213	270	15	46.28
n260	351	150	15	46.25
n260	357	330	15	46.21
n260	177	195	45	46.21
n260	433	180	45	46.13
n260	425	285	45	46.03
n260	429	240	45	46.03
n260	428	255	45	46.01
n260	419	0	45	46.01
n260	148	180	45	45.93
n260	173	240	45	45.90
n260	168	300	45	45.77
n260	433	195	45	45.75
n260	170	270	45	45.75
n260	430	225	45	45.72
n260	197	345	45	45.68
n260	420	345	45	45.68
n260	193	30	45	45.67
n260	424	300	45	45.64
n260	404	180	45	45.60
n260	164	345	45	45.60
n260	196	0	45	45.58
n260	194	15	45	45.55
n260	105	210	15	45.55
n260	104	240	15	45.54
n260	214	225	45	45.52
n260	172	255	45	45.49
n260	165	330	45	45.49
n260	385	105	30	45.48
n260	131	75	30	45.48
n260	199	330	45	45.44
n260	461	270	45	45.40
n260	136	0	30	45.40
n260	386	90	30	45.39
n260	426	270	45	45.39
n260	200	315	45	45.33
n260	135	15	30	45.32
n260	137	345	30	45.31
n260	132	60	30	45.29
n260	134	30	30	45.22
n260	190	60	45	45.20
n260	437	150	45	45.20
n260	384	120	30	45.19
n260	418	15	45	45.19
n260	151	150	45	45.17
n260	130	90	30	45.17
n260	180	120	30	45.15
n260	467	210	45	45.12
n260	388	60	30	45.07
n260	387	75	30	45.04
n260	433	45	30	45.02
n260	381	165	30	45.01
n260	464	240	45	44.93
n260	382	150	30	44.92
n260	415	45	45	44.92
n260	458	300	45	44.89
n260	138	330	30	44.83
n260	392	0	30	44.82
n260	152	135	45	44.81
n260	389	45	30	44.80
n260	391	15	30	44.78
n260	106	180	30	44.78
n260	423	315	45	44.77
n260	440	120	45	44.75
n260	163	0	45	44.75
n260	149	165	45	44.75
n260	176	210	45	44.75
n260	129	105	30	44.74
n260	107	165	30	44.74
n260	383	135	30	44.72
n260	459	285	45	44.69
n260	215	210	45	44.68
n260	166	315	45	44.68
n260	195	30	30	44.67
n260	455	330	45	44.67
n260	434	195	45	44.66
n260	452	0	45	44.66
n260	203	285	45	44.63
n260	405	165	45	44.63
n260	188	165	45	44.63
n260	432	210	45	44.62
n260	421	330	45	44.60
n260	449	30	45	44.57
n260	402	210	30	44.53
n260	436	165	45	44.51
n260	427	270	45	44.50
n260	139	315	30	44.50
n260	393	345	30	44.47
n260	414	60	45	44.40
n260	390	30	30	44.39
n260	189	75	45	44.39
n260	124	180	30	44.36
n260	400	240	30	44.36
n260	128	120	30	44.34
n260	150	165	45	44.33
n260	202	300	45	44.32
n260	416	30	45	44.31
n260	398	270	30	44.29
n260	401	225	30	44.29
n260	431	210	45	

n261	467	210	45	43.85
n261	447	45	45	43.84
n261	431	210	45	43.81
n261	166	225	30	43.80
n261	202	300	60	43.72
n261	427	270	45	43.66
n261	444	75	45	43.66
n261	150	165	45	43.63
n261	434	180	45	43.62
n261	469	195	45	43.62
n261	197	345	45	43.57
n261	170	270	45	43.55
n261	177	195	45	43.55
n261	187	90	45	43.49
n261	426	270	45	43.48
n261	425	285	45	43.44
n261	411	90	45	43.43
n261	412	75	45	43.43
n261	405	165	45	43.42
n261	464	240	45	43.37
n261	162	15	45	43.38
n261	199	330	45	43.38
n261	156	90	45	43.32
n261	464	240	45	43.32
n261	410	195	45	43.30
n261	196	0	45	43.30
n261	413	75	45	43.29
n261	1384	120	45	43.29
n261	186	105	45	43.28
n261	443	90	45	43.23
n261	171	270	45	43.22
n261	466	225	45	43.22
n261	449	30	45	43.21
n261	423	315	45	43.18
n261	180	165	45	43.13
n261	154	105	45	43.12
n261	157	75	45	43.12
n261	190	60	45	43.11
n261	465	225	45	43.09
n261	424	300	45	43.09
n261	422	315	45	43.02
n261	450	15	45	43.00
n261	440	120	45	42.98
n261	194	15	45	42.98
n261	150	30	45	42.90
n261	446	60	45	42.90
n261	189	75	45	42.88
n261	436	165	45	42.88
n261	441	105	45	42.87
n261	452	0	45	42.87
n261	421	330	45	42.86
n261	158	60	45	42.85
n261	468	195	45	42.85
n261	174	225	45	42.85
n261	159	45	45	42.84
n261	172	255	45	42.81
n261	185	120	45	42.81
n261	422	330	45	42.80
n261	155	105	45	42.80
n261	409	120	45	42.77
n261	437	150	45	42.76
n261	445	60	45	42.74
n261	193	30	45	42.72
n261	161	15	45	42.67
n261	435	165	45	42.64
n261	421	45	45	42.62
n261	461	270	45	42.60
n261	178	180	45	42.58
n261	439	135	45	42.58
n261	240	178	45	42.56
n261	176	210	45	42.54
n261	203	285	45	42.52
n261	204	285	45	42.50
n261	408	165	45	42.50
n261	182	150	45	42.49
n261	205	270	45	42.49
n261	188	75	45	42.47
n261	468	30	45	42.38
n261	462	255	45	42.36
n261	463	255	45	42.33
n261	179	165	45	42.33
n261	198	345	45	42.32
n261	201	315	45	42.30
n261	407	150	45	42.25
n261	451	15	45	42.20
n261	442	105	45	42.15
n261	175	210	45	42.08
n261	195	0	45	42.08
n261	453	345	45	42.02
n261	213	195	45	41.99
n261	438	135	45	41.89
n261	406	165	45	41.85
n261	460	285	45	41.69
n261	192	45	45	41.62
n261	212	195	45	41.61
n261	454	345	45	41.44
n261	211	210	45	41.32
n261	455	330	45	41.27
n261	459	285	45	41.24
n261	458	300	60	41.24
n261	29	60	15	41.09
n261	286	0	15	41.03
n261	36	0	0	40.98
n261	287	300	15	40.94
n261	282	0	0	40.93
n261	32	240	15	40.89
n261	285	60	15	40.86
n261	206	255	45	40.86
n261	294	30	30	40.74
n261	30	0	15	40.74
n261	31	300	15	40.73
n261	208	240	45	40.71
n261	28	120	15	40.70
n261	298	270	30	40.69
n261	59	255	30	40.66
n261	207	255	60	40.65
n261	42	270	30	40.65
n261	284	105	15	40.62
n261	210	225	45	40.61
n261	27	195	15	40.59
n261	297	300	30	40.59
n261	209	225	45	40.53
n261	295	0	30	40.52
n261	457	315	45	40.51
n261	315	255	30	40.48
n261	36	90	15	40.46
n261	288	240	15	40.45
n261	314	30	30	40.45
n261	41	300	30	40.42
n261	283	180	15	40.42
n261	291	135	15	40.40
n261	316	240	30	40.39
n261	43	240	30	40.36
n261	296	330	30	40.35
n261	303	150	30	40.35
n261	304	120	30	40.29
n261	40	330	30	40.29
n261	58	285	30	40.27
n261	293	60	30	40.22
n261	292	30	30	40.18
n261	456	315	45	40.17
n261	37	60	30	40.15
n261	292	90	15	40.13
n261	300	225	30	40.13
n261	60	240	30	40.11
n261	299	240	30	40.11
n261	49	105	30	40.04
n261	50	75	30	40.03
n261	44	225	30	40.02

n260	469	195	45	43.88
n260	126	150	30	43.87
n260	296	206	255	43.85
n260	108	150	30	43.82
n260	466	225	45	43.82
n260	422	330	45	43.79
n260	395	315	30	43.79
n260	91	0	0	43.73
n260	198	330	45	43.73
n260	446	60	45	43.72
n260	211	210	45	43.71
n260	162	15	45	43.71
n260	394	330	30	43.70
n260	122	225	30	43.70
n260	120	255	30	43.67
n260	362	180	30	43.67
n260	447	45	45	43.62
n260	377	240	30	43.61
n260	142	270	30	43.56
n260	373	315	30	43.52
n260	93	240	15	43.56
n260	417	30	45	43.55
n260	388	60	30	43.55
n260	186	105	45	43.54
n260	183	135	45	43.54
n260	117	315	30	43.53
n260	454	345	45	43.49
n260	443	45	30	43.48
n260	370	15	30	43.46
n260	147	195	30	43.46
n260	141	285	30	43.45
n260	460	285	45	43.44
n260	410	195	45	43.43
n260	465	225	45	43.35
n260	438	135	45	43.35
n260	143	255	30	43.34
n260	367	75	30	43.32
n260	374	300	30	43.33
n260	153	120	45	43.32
n260	442	105	45	43.31
n260	468	195	45	43.27
n260	435	165	45	43.27
n260	376	255	30	43.27
n260	157	75	45	43.21
n260	270	270	30	43.22
n260	109	120	30	43.10
n260	118	300	30	43.08
n260	181	150	45	43.08
n260	110	105	30	43.02
n260	348	300	15	43.06
n260	187	90	45	43.04
n260	158	60	45	43.04
n260	378	225	30	43.03
n260	349	240	15	43.03
n260	444	75	45	43.00
n260	363	165	30	42.99
n260	347	60	15	42.99
n260	32	300	15	42.95
n260	413	75	45	42.95
n260	346	60	15	42.93
n260	144	240	30	42.93
n260	379	195	45	42.92
n260	441	105	45	42.92
n260	406	150	45	42.89
n260	213	195	45	42.89
n260	372	345	30	42.82
n260	451	15	45	42.82
n260	180	165	45	42.81
n260	146	210	30	42.80
n260	285	275	285	42.80
n260	159	45	45	42.76
n260	89	135	15	42.73
n260	145	225	30	42.67
n260	178	180	60	42.66
n260	156	90	45	42.61
n260	457	315	45	42.60
n260	369	45	30	42.54
n260	316	330	30	42.52
n260	155	105	45	42.49
n260	184	120	45	42.48
n260	212	195	45	42.47
n260	411	60	45	42.43
n260	366	195	30	42.42
n260	345	0	0	42.34
n260	201	300	45	42.34
n260	209	225	45	42.30
n260	207	255	45	42.28
n260	448	45	45	42.21
n260	365	120	30	42.20
n260	180	30	45	42.15
n260	188	75	45	42.04
n260	115	0	30	42.02
n260	344	195	15	41.97
n260	412	90	45	41.96
n260	364	135	30	41.88
n260	161	30	45	41.82
n260	210	225	45	41.66
n260	204	285	45	41.63
n260	112	60	30	41.46
n260	114	15	30	41.45
n260	154	105	45	41.42
n260	185	120	45	41.38
n260	375	445	75	41.35
n260	182	150	45	41.31
n260	111	90	30	41.25
n260	282	0	0	41.21
n260	26	0	0	41.15
n260	113	65	15	40.97
n260	285	60	15	40.85
n260	31	285	15	40.83
n260	27	180	15	40.72
n260	337	270	45	40.68
n260	338	255	45	40.52
n260	28	120	15	40.49
n260	74	15	45	40.47
n260	75	0	45	40.45
n260	336	285	45	40.43
n260	77	330	45	40.27
n260	76	345	45	40.25
n260	179	165	45	40.24
n260	32	240	15	40.23
n260	81	2		

n261	306	75	30	40.01
n261	307	45	30	39.96
n261	308	30	30	39.93
n261	305	105	30	39.90
n261	51	60	30	39.88
n261	317	210	30	39.87
n261	35	120	30	39.86
n261	302	165	30	39.85
n261	313	300	30	39.81
n261	57	300	30	39.80
n261	39	0	30	39.78
n261	33	180	30	39.77
n261	34	150	30	39.76
n261	47	150	30	39.72
n261	61	210	30	39.71
n261	308	30	30	39.65
n261	318	195	30	39.61
n261	48	135	30	39.56
n261	290	150	30	39.43
n261	340	225	45	39.35
n261	67	120	45	39.33
n261	66	135	45	39.31
n261	301	180	30	39.26
n261	330	195	30	39.19
n261	289	195	30	39.11
n261	341	210	45	39.09
n261	62	195	30	39.07
n261	46	165	30	39.03
n261	312	330	30	39.02
n261	342	195	45	38.99
n261	326	75	45	38.98
n261	78	15	45	38.97
n261	53	15	30	38.95
n261	325	90	45	38.87
n261	69	90	45	38.84
n261	68	105	45	38.84
n261	55	330	45	38.80
n261	80	285	45	38.76
n261	77	330	45	38.69
n261	65	150	45	38.68
n261	45	127	45	38.65
n261	81	270	30	38.64
n261	70	75	45	38.61
n261	328	45	45	38.60
n261	82	255	30	38.59
n261	337	270	30	38.56
n261	45	180	30	38.53
n261	71	60	45	38.52
n261	339	240	45	38.51
n261	338	255	30	38.49
n261	324	105	45	38.40
n261	64	165	45	38.36
n261	309	30	45	38.33
n261	79	300	45	38.26
n261	323	120	45	38.22
n261	76	345	45	38.19
n261	319	180	45	38.16
n261	54	0	45	38.13
n261	310	0	45	38.04
n261	75	0	45	37.99
n261	322	135	45	37.98
n261	53	180	45	37.91
n261	329	30	45	37.87
n261	336	285	30	37.76
n261	330	15	45	37.70
n261	72	0	45	37.67
n261	311	345	30	37.63
n261	74	0	45	37.57
n261	86	195	45	37.56
n261	180	180	45	37.48
n261	331	0	45	37.45
n261	321	150	45	37.31
n261	73	30	45	37.19
n261	332	345	45	37.11
n261	83	225	30	36.92
n261	333	345	45	36.92
n261	335	300	45	36.87
n261	85	225	45	36.77
n261	84	225	45	36.75
n261	334	330	45	36.68
n261	265	120	15	35.46
n261	10	60	15	35.34
n261	263	0	0	35.24
n261	7	0	0	35.18
n261	264	180	15	35.12
n261	13	240	15	35.09
n261	9	120	15	34.96
n261	268	315	15	34.91
n261	8	195	15	34.88
n261	269	240	15	34.84
n261	271	30	30	34.71
n261	267	345	15	34.69
n261	11	0	15	34.66
n261	266	45	15	34.63
n261	19	30	30	34.51
n261	270	180	30	34.45
n261	12	300	15	34.36
n261	280	255	30	34.33
n261	15	150	30	34.31
n261	281	210	30	34.29
n261	14	180	30	34.15
n261	18	60	30	34.11
n261	272	120	30	34.10
n261	20	0	30	34.03
n261	25	105	30	33.84
n261	276	0	30	33.83
n261	279	270	30	33.83
n261	23	270	30	33.80
n261	17	90	30	33.76
n261	24	240	30	33.73
n261	21	330	30	33.72
n261	275	30	30	33.66
n261	273	90	30	33.66
n261	16	120	45	33.64
n261	274	60	45	33.35
n261	22	300	30	33.25
n261	277	330	30	33.18
n261	278	300	30	33.02
n261	262	270	15	24.48
n261	258	120	15	24.33
n261	261	300	15	24.31
n261	6	225	15	24.23
n261	260	15	24.20	
n261	257	180	15	24.19
n261	1	165	15	24.17
n261	0	0	0	24.16
n261	256	285	15	24.11
n261	5	270	15	24.08
n261	2	165	15	23.71
n261	4	330	15	23.70
n261	3	30	30	23.59
n261	259	30	30	23.47

n260	36	105	15	39.52
n260	292	90	30	39.52
n260	332	245	45	39.52
n260	85	210	45	39.43
n260	314	285	30	39.43
n260	317	210	30	39.42
n260	305	105	30	39.38
n260	293	60	30	39.37
n260	330	15	45	39.37
n260	71	60	45	39.32
n260	323	120	45	39.31
n260	50	75	30	39.29
n260	340	225	45	39.29
n260	83	240	45	39.26
n260	56	330	30	39.21
n260	324	195	45	39.20
n260	42	270	30	39.17
n260	35	120	30	39.15
n260	319	180	45	39.14
n260	36	195	45	39.12
n260	55	345	30	39.09
n260	316	240	30	39.08
n260	298	270	15	39.07
n260	48	135	30	39.06
n260	43	240	30	39.06
n260	328	45	45	39.03
n260	299	225	15	39.01
n260	315	255	30	38.99
n260	70	75	45	38.98
n260	329	30	45	38.95
n260	54	0	30	38.94
n260	53	15	30	38.93
n260	59	255	30	38.91
n260	52	30	30	38.84
n260	307	60	30	38.83
n260	313	300	30	38.79
n260	34	225	45	38.78
n260	47	150	30	38.72
n260	33	180	30	38.72
n260	327	60	45	38.67
n260	304	120	30	38.67
n260	37	60	15	38.67
n260	41	300	15	38.64
n260	40	315	30	38.62
n260	44	210	30	38.62
n260	325	90	45	38.61
n260	291	120	30	38.59
n260	62	210	45	38.51
n260	297	300	30	38.51
n260	34	150	30	38.50
n260	326	75	45	38.47
n260	318	195	30	38.47
n260	285	285	30	38.45
n260	60	240	45	38.29
n260	61	225	45	38.25
n260	302	165	30	38.25
n260	65	165	45	38.24
n260	312	330	30	38.24
n260	308	45	45	38.19
n260	311	345	30	38.15
n260	290	135	30	38.13
n260	68	90	45	38.12
n260	45	180	45	38.11
n260	63	180	45	38.06
n260	66	135	45	38.03
n260	150	150	30	37.97
n260	64	165	45	37.94
n260	46	165	45	37.88
n260	68	105	45	37.87
n260	301	180	30	37.84
n260	38	15	15	37.79
n260	294	30	30	37.76
n260	296	315	30	37.61
n260	300	300	30	37.61
n260	309	15	30	37.61
n260	295	0	30	37.37
n260	67	120	45	37.29
n260	120	180	60	37.25
n260	289	180	30	36.94
n260	39	345	30	35.56
n260	263	0	0	35.01
n260	25	210	45	34.92
n260	7	0	0	34.78
n260	11	345	15	34.68
n260	277	330	45	34.48
n260	12	285	15	34.36
n260	8	180	30	34.25
n260	269	240	15	34.20
n260	271	150	45	34.13
n260	276	0	45	34.09
n260	320	330	30	34.05
n260	9	135	15	33.98
n260	275	30	45	33.82
n260	19	30	45	33.81
n260	266	60	15	33.78
n260	278	300	45	33.76
n260	10	60	15	33.74
n260	20	0	30	33.69
n260	279	270	45	33.61
n260	22	300	45	33.57
n260	18	60	45	33.50
n260	281	210	45	33.48
n260	274	60	45	33.45
n260	267	0	15	33.43
n260	264	180	15	33.40
n260	24	240	45	33.35
n260	23	270	45	33.35
n260	280	240	45	33.30
n260	14	180	45	33.19
n260	268	300	15	33.16
n260	13	225	30	33.14
n260	15	150	45	33.13
n260	272	120	45	33.12
n260	17	90	30	33.07
n260	265	120	15	33.02
n260	270	180	45	32.99
n260	16	120	30	32.74
n260	273	150	45	32.40
n260	2	90	60	23.70
n260	4	330	15	23.50
n260	259	60	30	23.27
n260	5	315	30	23.19
n260	0	150	15	22.91
n260	0	266	0	22.64
n260	3	60	15	22.49
n260	262	240	15	22.44
n260	1	195	45	22.28
n260	6	225	30	22.24
n260	257	210	15	21.98
n260	261	315	30	21.95
n260	260	0	15	21.95
n260	258	120	30	21.92

beam 0~213	Vertical
beam 256~469	Horizontal

Band	Beam_ID	Paired_With		Band	Beam_ID	Paired_With
260	0	256		261	0	256
260	1	257		261	1	257
260	2	258		261	2	258
260	3	259		261	3	259
260	4	260		261	4	260
260	5	261		261	5	261
260	6	262		261	6	262
260	7	263		261	7	263
260	8	264		261	8	264
260	9	265		261	9	265
260	10	266		261	10	266
260	11	267		261	11	267
260	12	268		261	12	268
260	13	269		261	13	269
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260	32	288		261	32	288
260	33	289		261	33	289
260	34	290		261	34	290
260	35	291		261	35	291
260	36	292		261	36	292
260	37	293		261	37	293
260	38	294		261	38	294
260	39	295		261	39	295
260	40	296		261	40	296
260	41	297		261	41	297
260	42	298		261	42	298
260	43	299		261	43	299

260	44	300		261	44	300
260	45	301		261	45	301
260	46	302		261	46	302
260	47	303		261	47	303
260	48	304		261	48	304
260	49	305		261	49	305
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260	70	326		261	70	326
260	71	327		261	71	327
260	72	328		261	72	328
260	73	329		261	73	329
260	74	330		261	74	330
260	75	331		261	75	331
260	76	332		261	76	332
260	77	333		261	77	333
260	78	334		261	78	334
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260	81	337		261	81	337
260	82	338		261	82	338
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260	88	344		261	88	344
260	89	345		261	89	345
260	90	346		261	90	346
260	91	347		261	91	347

260	92	348		261	92	348
260	93	349		261	93	349
260	94	350		261	94	350
260	95	351		261	95	351
260	96	352		261	96	352
260	97	353		261	97	353
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260	102	358		261	102	358
260	103	359		261	103	359
260	104	360		261	104	360
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260	106	362		261	106	362
260	107	363		261	107	363
260	108	364		261	108	364
260	109	365		261	109	365
260	110	366		261	110	366
260	111	367		261	111	367
260	112	368		261	112	368
260	113	369		261	113	369
260	114	370		261	114	370
260	115	371		261	115	371
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260	120	376		261	120	376
260	121	377		261	121	377
260	122	378		261	122	378
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260	134	390		261	134	390
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260	136	392		261	136	392
260	137	393		261	137	393
260	138	394		261	138	394
260	139	395		261	139	395

260	140	396		261	140	396
260	141	397		261	141	397
260	142	398		261	142	398
260	143	399		261	143	399
260	144	400		261	144	400
260	145	401		261	145	401
260	146	402		261	146	402
260	147	403		261	147	403
260	148	404		261	148	404
260	149	405		261	149	405
260	150	406		261	150	406
260	151	407		261	151	407
260	152	408		261	152	408
260	153	409		261	153	409
260	154	410		261	154	410
260	155	411		261	155	411
260	156	412		261	156	412
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260	164	420		261	164	420
260	165	421		261	165	421
260	166	422		261	166	422
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260	168	424		261	168	424
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260	172	428		261	172	428
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260	182	438		261	182	438
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260	190	446		261	190	446
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260	201	457		261	201	457
260	202	458		261	202	458
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260	207	463		261	207	463
260	208	464		261	208	464
260	209	465		261	209	465
260	210	466		261	210	466
260	211	467		261	211	467
260	212	468		261	212	468
260	213	469		261	213	469



Frequency (GHz)	Equipments				Total Fact for EIRP
	Horn Ant. (Com-power)		Cable (Hub+shuner)		
	Model:	AH840	Model:	SUCOFLEX 102	
	S/N:	101100	S/N:	MY3374/2	
	Calibration data	Antenna Fact(dB/m)	Cable loss (dB)	(3m)	
Antenna Gain(dBi)	(dB)				
18	17.6	37.7	5.18	54.70	
18.5	17.8	37.8	5.23	54.78	
19	17.1	38.7	5.33	55.82	
19.5	18.0	38.0	5.40	55.21	
20	18.6	37.6	5.47	54.90	
20.5	18.0	38.4	5.54	55.79	
21	17.5	39.2	5.62	56.57	
21.5	17.9	39.0	5.69	56.45	
22	19.3	37.8	5.75	55.31	
22.5	20.1	37.2	5.82	54.77	
23	20.3	37.1	5.89	54.83	
23.5	20.1	37.5	5.96	55.29	
24	19.8	38.0	6.04	55.85	
24.5	20.3	37.7	6.12	55.61	
25	21.0	37.2	6.17	55.14	
25.5	20.2	38.1	6.24	56.18	
26	19.9	38.6	6.30	56.71	
26.5	20.2	38.5	6.37	56.64	
27	20.6	38.2	6.42	56.46	
27.5	21.0	38.0	6.52	56.32	
28	20.9	38.3	6.58	56.63	
28.5	20.4	38.9	6.65	57.36	
29	20.6	38.9	6.72	57.38	
29.5	20.5	39.1	6.76	57.67	
30	21.1	38.7	6.83	57.28	
30.5	21.4	38.5	6.90	57.20	
31	22.0	38.0	6.96	56.80	
31.5	21.9	38.3	7.04	57.12	
32	22.0	38.3	7.10	57.21	
32.5	22.2	38.2	7.16	57.21	
33	22.0	38.6	7.20	57.58	
33.5	21.7	39.0	7.27	58.08	
34	21.7	39.1	7.32	58.26	
34.5	22.4	38.6	7.39	57.76	
35	22.3	38.8	7.45	58.04	
35.5	20.8	40.4	7.52	59.73	
36	19.8	41.5	7.57	60.91	
36.5	19.7	41.8	7.62	61.18	
37	19.9	41.7	7.66	61.13	
37.5	21.2	40.5	7.70	59.99	
38	21.0	40.8	7.78	60.39	
38.5	19.9	42.0	7.84	61.66	
39	19.1	42.9	7.92	62.65	
39.5	19.1	43.0	7.97	62.81	
40	20.0	42.3	8.07	62.12	

Frequency (GHz)	Equipments					Total Fact	Total Fact for EIRP	
	Horn Ant. (Quinstar)		Cable (Hub+shuner)		Pre-amp.			
	Model:	QWH-QPRR00	Model:	SGH-40-HC360-2.4M/2.4M-1M+ SGH-40-HC360-2.4M/2.4M-3M	Model:			EMC3350 45SE
	S/N:		S/N:	202108-02	S/N:			980639
	Calibration data	Antenna Fact(dB/m)	Cable loss (dB)	Pre-amplifier (dB)				(2m)
Antenna Gain(dBi)	(dB/m)				(dB)			
40	22.9	39.3	12.8	56.2	-4.07	4.15		
42	23.0	39.7	13.2	52.4	0.52	8.74		
44	23.0	40.1	13.5	53.5	0.09	8.31		
46	23.0	40.4	14.0	52.3	2.14	10.36		
48	23.1	40.8	14.3	54.9	0.17	8.39		
50	23.1	41.1	14.6	51.2	4.49	12.71		



Calibration Laboratory of Microwave Measuring Equipment  
of MWMLab



ISO 17025  
ACCREDITED LABORATORY

# Calibration certificate



Accreditation certificate No. № BY/112 5.0065 of 09.01.2015

Certificate number 77-20 Date when calibrated 02.11.2020 Page 1 of 2

Item calibrated Antenna QWH-QPRR00

Customer DEKRA Testing and Certification Co., Ltd  
No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan

Method of calibration GOST 20271.1, MK KL 8.2-16

*All measurements are traceable to the SI units which are realized by national measurement standards of NMI and state standards of RF. Conversion loss measurements above 178 GHz are to confirm operation functionality and traceable only to MWMLab standards and OML. This certificate shall not be reproduced, except in full. Any publication extracts from the calibration certificate requires written permission of the issuing calibration laboratory of microwave measuring equipment.*

Authorising  
signature



/ Technical manager Date of issue 02.11.2020



# Calibration Certificate

Certificate number **77-20**

Page **2** of **2**

## Calibration is performed by using

Model	Model Description	Equipment ID	Cal Due Date	Certificate Number	Trace Value
M1-11	Calibrator of power with wattmeter M3-22A	841202/ 037410	26 November 2020	3075-43	RF Power
M 568	Reference power meter	164	24 March 2022	1/111-175-20	RF Power
G4-161	Signal generator	3	12 October 2021	20-20	RF Power
MG3694C	Signal generator	133805	21 August 2020	2066-43	RF Power Frequency
V7-34	Universal voltmeter	0067787	23 September 2021	2742-42	DC Voltage
RCH3-72	Frequency meter	931200	18 September 2021	2822-43	Frequency
P6-133	Horn antenna	15005	23 September 2021	2374-43	Gain
P6-11B	Measuring horn antenna	08051	23 September 2021	2370-43	Gain

## Calibration conditions

Temperature: 22.0 °C.  
Humidity: 42.0 %.  
Pressure: 100.3 kPa.

## Calibration results are given in the measurement report # 77-20

#	Parameter	Specifications required	Specifications tested and measured
1	Frequency range	33 – 50 GHz	Corresponds
2	Antenna Gain	22.6* dBi	Corresponds (Table 1)
3	Antenna Factor	39 dB/m	Corresponds (Table 1)

\* – Expanded uncertainty of measurements 2.0 dB.

*The uncertainty evaluation has been performed in accordance with ISO/IEC Guide 98-3:2008 (GUM). The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k$  such that the coverage probability corresponds to approximately 95 %. This probability corresponds to a coverage factor of  $k=2$  for a normal distribution.*

**Signature of the person who has performed calibration**



/ Engineer



**Calibration Laboratory of  
Microwave Measuring Equipment**

Accreditation certificate

No. BY/112 5.0065

Address: 6, P. Brovki str., Minsk  
220013, Belarus

Phone/Fax: +375 17 2938496



Technical Manager

November 02, 2020

**MEASUREMENT REPORT # 77-20**

November 02, 2020

Customer:	DEKRA Testing and Certification Co., Ltd No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan
Item calibrated:	<b>Antenna QWH-QPRR00</b>
Method of calibration:	GOST 20271.1, MK KL 8.2-16
Number of samples:	One
Delivery date of the sample:	09.10.2020
Date of calibration:	From 09.10.2020 to 02.11.2020



## MEASUREMENT CONDITIONS

Temperature: 22.0 °C	Humidity: 42 %	Pressure: 100.3 kPa
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## MEASUREMENT EQUIPMENT

Model	Model Description	Equipment ID	Cal Due Date	Certificate Number	Trace Value
M1-11	Calibrator of power with wattmeter M3-22A	841202/ 037410	26 November 2020	3075-43	RF Power
M 568	Reference power meter	164	24 March 2022	1/111-175-20	RF Power
G4-161	Signal generator	3	12 October 2021	20-20	RF Power
MG3694C	Signal generator	133805	21 August 2020	2066-43	RF Power Frequency
V7-34	Universal voltmeter	0067787	23 September 2021	2742-42	DC Voltage
RCH3-72	Frequency meter	931200	18 September 2021	2822-43	Frequency
P6-133	Horn antenna	15005	23 September 2021	2374-43	Gain
P6-11B	Measuring horn antenna	08051	23 September 2021	2370-43	Gain

## MEASUREMENT RESULTS

Distance between tested and generating antenna 2.0 m.

Table 1

Frequency, GHz	33	39	50
Power density of electromagnetic field, W/m <sup>2</sup>	0.022	0.044	0.069
Maximum level of measured power, dBm	-16.3	-13.9	-13.9
Gain, dBi	22.1	22.9	23.1
Expanded uncertainty, dB	2.0	2.0	2.0
Antenna Factor, dB/m	38.5	39.2	41.1

*The uncertainty evaluation has been performed in accordance with ISO/IEC Guide 98-3:2008 (GUM). The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k$  such that the coverage probability corresponds to approximately 95 %. This probability corresponds to a coverage factor of  $k=2$  for a normal distribution*

Engineer



This measurement report issued in duplicate and sent to:

1. DEKRA Testing and Certification Co., Ltd No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan
2. Calibration Laboratory of Microwave Measuring Equipment

Duplication of Measurement report (complete or partial) must be authorized by the laboratory.



Calibration Laboratory of Microwave Measuring Equipment  
of MWMLab



Calibration certificate

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Certificate number 90-20 Date when calibrated 22.12.2020 Page 1 of 2

Item calibrated Preamplifier EMC335045SE # 980639 with  
Cable WCBA-WC3824M.24M1 and WCBA-WC3824M.24M3

Customer DEKRA Testing and Certification Co.,  
Ltd. No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan

Method of calibration GOST 20271.1, MK KL 5.3-16

*All measurements are traceable to the SI units which are realized by national measurement standards of NMI and state standards of RF. Conversion loss measurements above 178 GHz are to confirm operation functionality and traceable only to MWMLab standards and OML. This certificate shall not be reproduced, except in full. Any publication extracts from the calibration certificate requires written permission of the issuing calibration laboratory of microwave measuring equipment.*

Authorising  
signature



/ Technical manager

Date of issue 22.12.2020

# Calibration Certificate

Certificate number **90-20**

Page **2** of **2**

## Calibration is performed by using

Model	Model Description	Equipment ID	Cal Due Date	Certificate Number	Trace Value
R2-120	Scalar network analyzer	3/161590	12 October 2021	20-20	Gain Attenuation

## Calibration conditions

Temperature: 22.0 °C.  
Humidity: 38.0 %.  
Pressure: 100.0 kPa.

## Calibration results are given in the measurement report # 90-20

1	Frequency range	33 – 50 GHz	Corresponds
2	Gain	$\geq 45^*$ dB	Corresponds (Table 1)
3	RF cable attenuation	$\leq 26$ dB	Corresponds (Table 1)

\* – Expanded uncertainty of measurements 3.4 dB.

*The uncertainty evaluation has been performed in accordance with ISO/IEC Guide 98-3:2008 (GUM). The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k$  such that the coverage probability corresponds to approximately 95 %. This probability corresponds to a coverage factor of  $k=2$  for a normal distribution.*

**Signature of the person who has performed calibration**



/ Engineer



**Calibration Laboratory of  
Microwave Measuring Equipment**  
Accreditation certificate  
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220013, Belarus  
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Technical Manager

*[Signature]*  
December 22, 2020

**MEASUREMENT REPORT # 90-20**  
December 22, 2020

Customer:	DEKRA Testing and Certification Co., Ltd. No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan
Item calibrated:	Preamplifier EMC335045SE # 980639 with Cable WCBA-WC3824M.24M1 and WCBA- WC3824M.24M3
Method of calibration:	GOST 20271.1, MK KL 5.3-16
Number of samples:	One
Delivery date of the sample:	10.12.2020
Date of calibration:	From 10.12.2020 to 22.12.2020

## MEASUREMENT CONDITIONS

Temperature: 22.0 °C	Humidity: 38 %	Pressure: 100.0 kPa
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## MEASUREMENT EQUIPMENT

Model	Model Description	Equipment ID	Cal Due Date	Certificate Number	Trace Value
R2-120	Scalar network analyzer	3/161590	12 October 2021	20-20	Gain Attenuation

## MEASUREMENT RESULTS

Table 1

Frequency, GHz	Gain, dB	RF cable attenuation, dB	Expanded uncertainty, dB
40	56.2	22.3	3.4
41	55.4	22.7	3.4
42	52.4	23.1	3.4
43	52.4	23.7	3.4
44	53.5	24.2	3.4
45	54.5	24.1	3.4
46	52.3	24.7	3.4
47	52.0	24.5	3.4
48	54.9	24.9	3.4
49	51.6	25.2	3.4
50	51.2	25.6	3.4

*The uncertainty evaluation has been performed in accordance with ISO/IEC Guide 98-3:2008 (GUM). The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k$  such that the coverage probability corresponds to approximately 95 %. This probability corresponds to a coverage factor of  $k=2$  for a normal distribution.*

Engineer



This measurement report issued in duplicate and sent to:

1. DEKRA Testing and Certification Co., Ltd. No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan
2. Calibration Laboratory of Microwave Measuring Equipment

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Calibration Laboratory of Microwave Measuring Equipment  
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Certificate number 28-22 Date when calibrated 10.03.2022 Page 1 of 2

Item calibrated RF cable SGH40-HC360-2.4M/2.4M-1M-202108-2

Customer Dekra Testing and Certification Co., Ltd.  
No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County  
31061, Taiwan

Method of calibration GOST 20271.1, MK KL 5.3-16

All measurements are traceable to the SI units which are realized by national measurement standards of NMI and state standards of RF. Gain measurements above 178 GHz are to confirm operation functionality and traceable only to MWMLab standards and OML. This certificate shall not be reproduced, except in full. Any publication extracts from the calibration certificate requires written permission of the issuing calibration laboratory of microwave measuring equipment.

Authorising signature



/ Technical manager Date of issue 10.03.2022