Test Mode: 64QAM

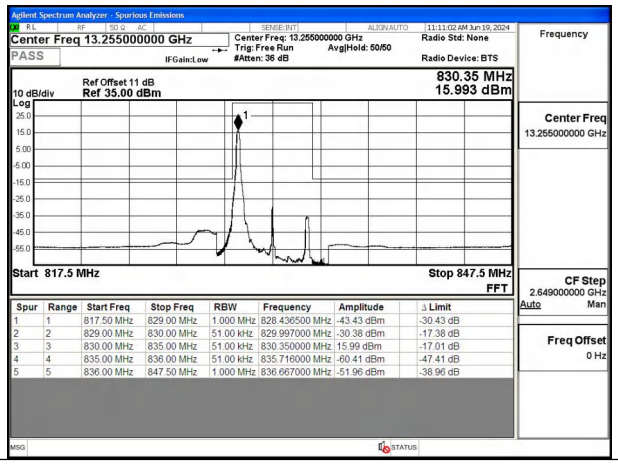

Fig.25

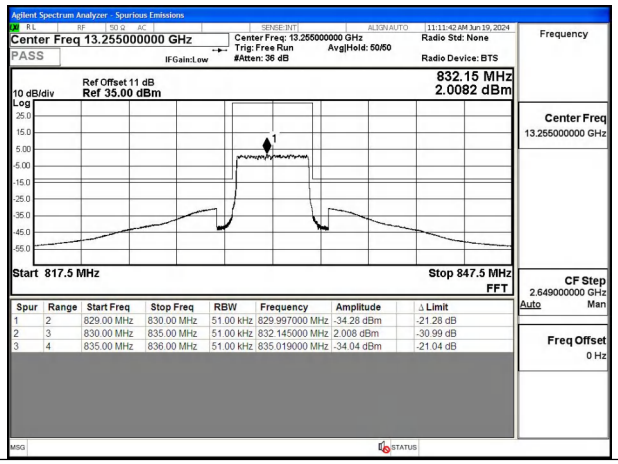

Fig.26

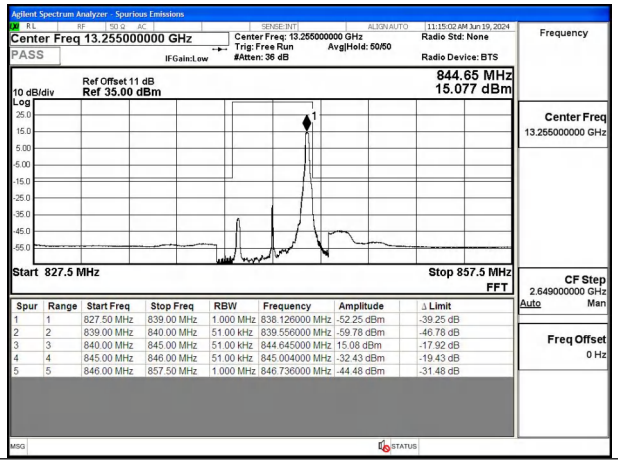

Fig.27

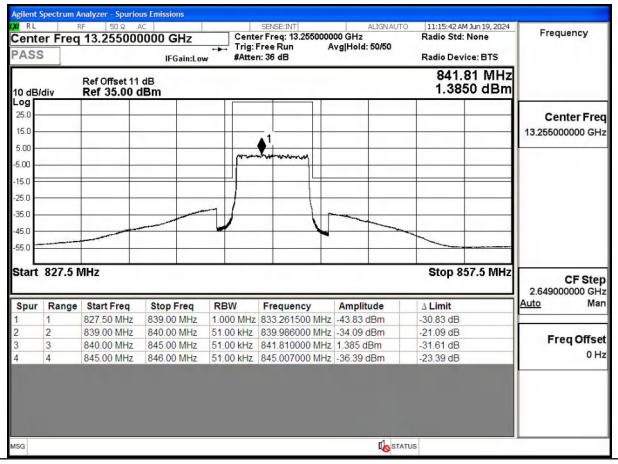

Fig.28

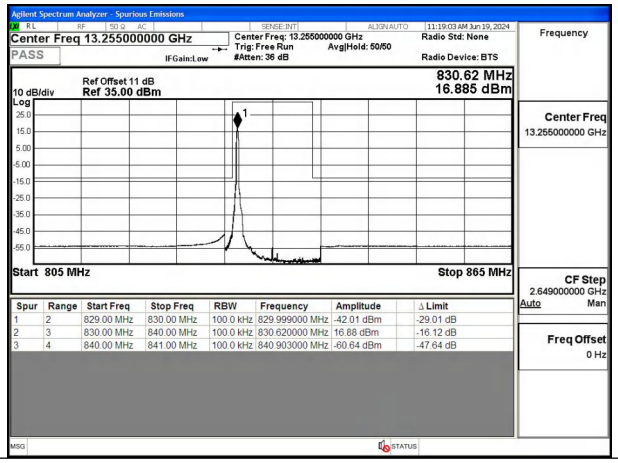

Fig.29

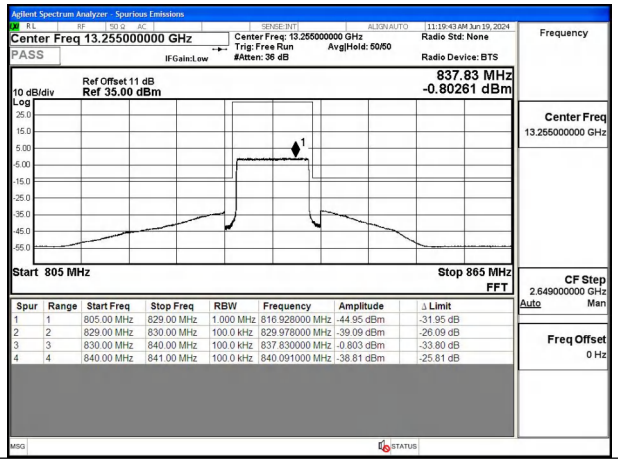

Fig.30

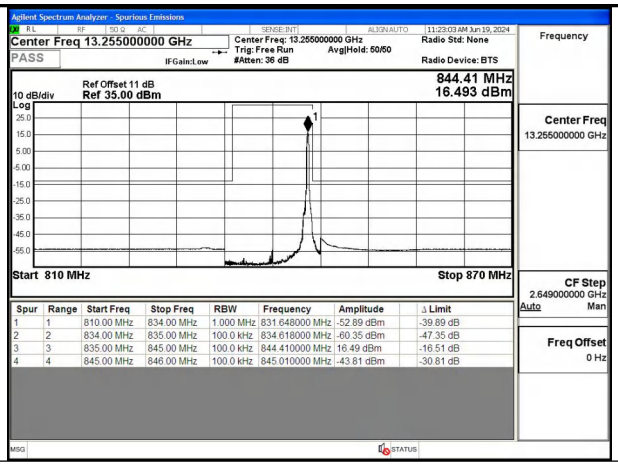

Fig.31

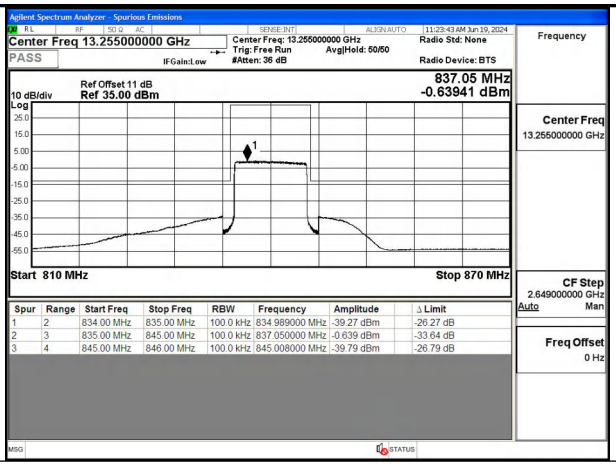

Fig.32

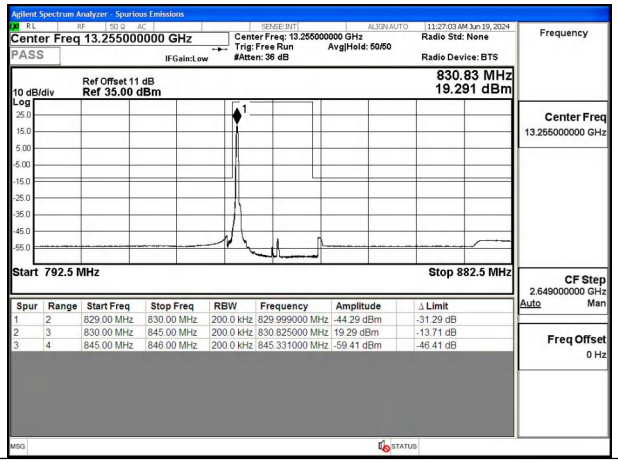

Fig.33

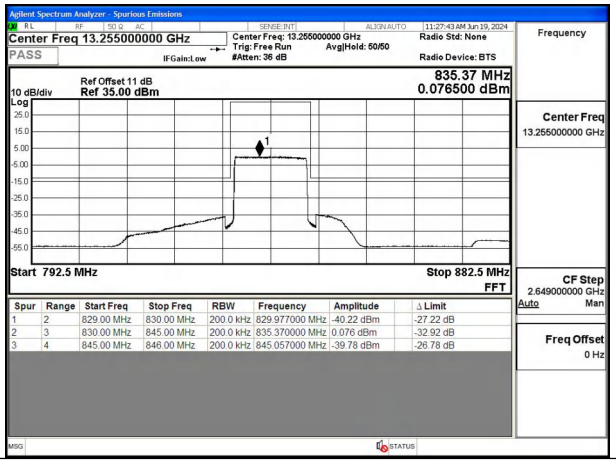

Fig.34

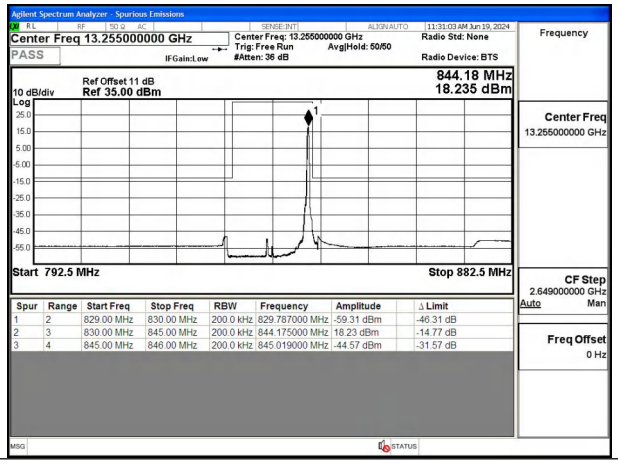

Fig.35

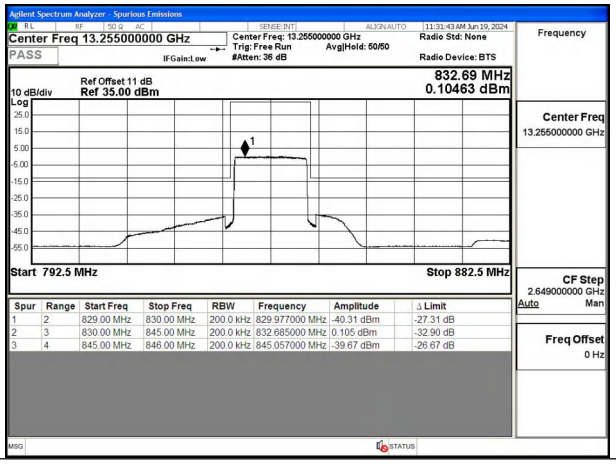

Fig.36

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 19 Low Channel QPSK		
		5M	10M	15M
-30	NV	-0.002	0.005	-0.005
-20	NV	0.002	0.004	-0.006
-10	NV	0.002	0.005	0.004
0	NV	0.005	0.005	0.004
+10	NV	0.001	0.004	-0.005
+20	NV	0.005	-0.005	-0.005
+30	NV	0.004	0.006	-0.007
+40	NV	0.005	-0.005	-0.004
+50	NV	0.001	-0.004	0.005
+20	LV	-0.001	0.005	-0.006
+20	HV	0.000	-0.007	-0.004

Temperature(°C)	Voltage	Test Result (ppm) Band 19 High Channel QPSK		
		5M	10M	15M
-30	NV	0.002	0.004	0.005
-20	NV	-0.001	-0.004	-0.005
-10	NV	0.003	-0.005	0.006
0	NV	-0.002	0.004	0.005
+10	NV	-0.003	0.004	-0.005
+20	NV	-0.002	-0.005	-0.005
+30	NV	-0.003	0.006	-0.005
+40	NV	-0.003	0.004	-0.007
+50	NV	0.002	0.005	-0.006
+20	LV	0.002	-0.005	-0.004
+20	HV	-0.001	-0.004	0.005

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	832.5	24025	5	1	0	23.50	25.85	0.385
QPSK	832.5	24025	5	1	12	23.10	25.45	0.351
QPSK	832.5	24025	5	1	24	23.05	25.40	0.347
QPSK	832.5	24025	5	12	0	22.08	24.43	0.277
QPSK	832.5	24025	5	12	7	22.06	24.41	0.276
QPSK	832.5	24025	5	12	13	22.04	24.39	0.275
QPSK	832.5	24025	5	25	0	22.04	24.39	0.275
QPSK	837.5	24075	5	1	0	23.44	25.79	0.379
QPSK	837.5	24075	5	1	12	23.01	25.36	0.344
QPSK	837.5	24075	5	1	24	23.02	25.37	0.344
QPSK	837.5	24075	5	12	0	22.09	24.44	0.278
QPSK	837.5	24075	5	12	7	22.06	24.41	0.276
QPSK	837.5	24075	5	12	13	21.98	24.33	0.271
QPSK	837.5	24075	5	25	0	22.04	24.39	0.275
QPSK	842.5	24125	5	1	0	23.25	25.60	0.363
QPSK	842.5	24125	5	1	12	22.62	24.97	0.314
QPSK	842.5	24125	5	1	24	22.16	24.51	0.282
QPSK	842.5	24125	5	12	0	21.75	24.10	0.257
QPSK	842.5	24125	5	12	7	21.55	23.90	0.245
QPSK	842.5	24125	5	12	13	21.25	23.60	0.229
QPSK	842.5	24125	5	25	0	21.50	23.85	0.243

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	832.5	24025	5	1	0	22.37	24.72	0.296
16QAM	832.5	24025	5	1	12	22.27	24.62	0.290
16QAM	832.5	24025	5	1	24	22.47	24.82	0.303
16QAM	832.5	24025	5	12	0	21.10	23.45	0.221
16QAM	832.5	24025	5	12	7	21.05	23.40	0.219
16QAM	832.5	24025	5	12	13	21.03	23.38	0.218
16QAM	832.5	24025	5	25	0	21.11	23.46	0.222
16QAM	837.5	24075	5	1	0	22.43	24.78	0.301
16QAM	837.5	24075	5	1	12	22.59	24.94	0.312
16QAM	837.5	24075	5	1	24	21.96	24.31	0.270
16QAM	837.5	24075	5	12	0	21.10	23.45	0.221
16QAM	837.5	24075	5	12	7	21.06	23.41	0.219
16QAM	837.5	24075	5	12	13	21.00	23.35	0.216
16QAM	837.5	24075	5	25	0	21.02	23.37	0.217
16QAM	842.5	24125	5	1	0	22.16	24.51	0.282
16QAM	842.5	24125	5	1	12	22.05	24.40	0.275
16QAM	842.5	24125	5	1	24	21.43	23.78	0.239
16QAM	842.5	24125	5	12	0	20.76	23.11	0.205
16QAM	842.5	24125	5	12	7	20.48	22.83	0.192
16QAM	842.5	24125	5	12	13	20.26	22.61	0.182
16QAM	842.5	24125	5	25	0	20.58	22.93	0.196
64QAM	832.5	24025	5	1	0	22.49	24.84	0.305
64QAM	832.5	24025	5	1	12	21.57	23.92	0.247
64QAM	832.5	24025	5	1	24	21.96	24.31	0.270
64QAM	832.5	24025	5	12	0	21.11	23.46	0.222
64QAM	832.5	24025	5	12	7	21.13	23.48	0.223
64QAM	832.5	24025	5	12	13	21.15	23.50	0.224
64QAM	832.5	24025	5	25	0	21.07	23.42	0.220
64QAM	837.5	24075	5	1	0	22.09	24.44	0.278
64QAM	837.5	24075	5	1	12	22.23	24.58	0.287
64QAM	837.5	24075	5	1	24	22.10	24.45	0.279
64QAM	837.5	24075	5	12	0	20.92	23.27	0.212
64QAM	837.5	24075	5	12	7	21.09	23.44	0.221
64QAM	837.5	24075	5	12	13	21.00	23.35	0.216
64QAM	837.5	24075	5	25	0	20.97	23.32	0.215
64QAM	842.5	24125	5	1	0	22.05	24.40	0.275
64QAM	842.5	24125	5	1	12	21.70	24.05	0.254
64QAM	842.5	24125	5	1	24	21.33	23.68	0.233
64QAM	842.5	24125	5	12	0	20.78	23.13	0.206
64QAM	842.5	24125	5	12	7	20.51	22.86	0.193
64QAM	842.5	24125	5	12	13	20.25	22.60	0.182
64QAM	842.5	24125	5	25	0	20.43	22.78	0.190

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	835	24050	10	1	0	22.87	25.22	0.333
QPSK	835	24050	10	1	25	22.97	25.32	0.340
QPSK	835	24050	10	1	49	22.77	25.12	0.325
QPSK	835	24050	10	25	0	21.91	24.26	0.267
QPSK	835	24050	10	25	12	21.92	24.27	0.267
QPSK	835	24050	10	25	25	21.85	24.20	0.263
QPSK	835	24050	10	50	0	21.87	24.22	0.264
QPSK	837.5	24075	10	1	0	22.86	25.21	0.332
QPSK	837.5	24075	10	1	25	22.73	25.08	0.322
QPSK	837.5	24075	10	1	49	22.49	24.84	0.305
QPSK	837.5	24075	10	25	0	21.91	24.26	0.267
QPSK	837.5	24075	10	25	12	21.89	24.24	0.265
QPSK	837.5	24075	10	25	25	21.70	24.05	0.254
QPSK	837.5	24075	10	50	0	21.81	24.16	0.261
QPSK	840	24100	10	1	0	22.87	25.22	0.333
QPSK	840	24100	10	1	25	22.74	25.09	0.323
QPSK	840	24100	10	1	49	21.97	24.32	0.270
QPSK	840	24100	10	25	0	21.87	24.22	0.264
QPSK	840	24100	10	25	12	21.75	24.10	0.257
QPSK	840	24100	10	25	25	21.39	23.74	0.237
QPSK	840	24100	10	50	0	21.66	24.01	0.252

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	835	24050	10	1	0	22.03	24.38	0.274
16QAM	835	24050	10	1	25	22.29	24.64	0.291
16QAM	835	24050	10	1	49	22.11	24.46	0.279
16QAM	835	24050	10	25	0	21.02	23.37	0.217
16QAM	835	24050	10	25	12	20.97	23.32	0.215
16QAM	835	24050	10	25	25	20.86	23.21	0.209
16QAM	835	24050	10	50	0	20.94	23.29	0.213
16QAM	837.5	24075	10	1	0	22.19	24.54	0.284
16QAM	837.5	24075	10	1	25	22.33	24.68	0.294
16QAM	837.5	24075	10	1	49	21.59	23.94	0.248
16QAM	837.5	24075	10	25	0	20.87	23.22	0.210
16QAM	837.5	24075	10	25	12	20.90	23.25	0.211
16QAM	837.5	24075	10	25	25	20.72	23.07	0.203
16QAM	837.5	24075	10	50	0	20.87	23.22	0.210
16QAM	840	24100	10	1	0	22.02	24.37	0.274
16QAM	840	24100	10	1	25	21.94	24.29	0.269
16QAM	840	24100	10	1	49	21.02	23.37	0.217
16QAM	840	24100	10	25	0	20.89	23.24	0.211
16QAM	840	24100	10	25	12	20.88	23.23	0.210
16QAM	840	24100	10	25	25	20.43	22.78	0.190
16QAM	840	24100	10	50	0	20.75	23.10	0.204
64QAM	835	24050	10	1	0	22.24	24.59	0.288
64QAM	835	24050	10	1	25	22.02	24.37	0.274
64QAM	835	24050	10	1	49	21.84	24.19	0.262
64QAM	835	24050	10	25	0	20.96	23.31	0.214
64QAM	835	24050	10	25	12	20.92	23.27	0.212
64QAM	835	24050	10	25	25	20.97	23.32	0.215
64QAM	835	24050	10	50	0	20.87	23.22	0.210
64QAM	837.5	24075	10	1	0	22.03	24.38	0.274
64QAM	837.5	24075	10	1	25	21.99	24.34	0.272
64QAM	837.5	24075	10	1	49	21.66	24.01	0.252
64QAM	837.5	24075	10	25	0	20.92	23.27	0.212
64QAM	837.5	24075	10	25	12	20.99	23.34	0.216
64QAM	837.5	24075	10	25	25	20.75	23.10	0.204
64QAM	837.5	24075	10	50	0	20.87	23.22	0.210
64QAM	840	24100	10	1	0	22.01	24.36	0.273
64QAM	840	24100	10	1	25	22.04	24.39	0.275
64QAM	840	24100	10	1	49	21.06	23.41	0.219
64QAM	840	24100	10	25	0	20.93	23.28	0.213
64QAM	840	24100	10	25	12	20.82	23.17	0.207
64QAM	840	24100	10	25	25	20.48	22.83	0.192
64QAM	840	24100	10	50	0	20.72	23.07	0.203

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	837.5	24075	15	1	0	22.87	25.22	0.333
QPSK	837.5	24075	15	1	37	22.89	25.24	0.334
QPSK	837.5	24075	15	1	74	22.00	24.35	0.272
QPSK	837.5	24075	15	36	0	21.88	24.23	0.265
QPSK	837.5	24075	15	36	29	21.69	24.04	0.254
QPSK	837.5	24075	15	36	30	21.68	24.03	0.253
QPSK	837.5	24075	15	75	0	21.71	24.06	0.255
QPSK	837.5	24075	15	1	0	22.80	25.15	0.327
QPSK	837.5	24075	15	1	37	22.67	25.02	0.318
QPSK	837.5	24075	15	1	74	21.96	24.31	0.270
QPSK	837.5	24075	15	36	0	21.85	24.20	0.263
QPSK	837.5	24075	15	36	29	21.67	24.02	0.252
QPSK	837.5	24075	15	36	30	21.64	23.99	0.251
QPSK	837.5	24075	15	75	0	21.70	24.05	0.254
QPSK	837.5	24075	15	1	0	22.87	25.22	0.333
QPSK	837.5	24075	15	1	37	22.69	25.04	0.319
QPSK	837.5	24075	15	1	74	21.89	24.24	0.265
QPSK	837.5	24075	15	36	0	21.85	24.20	0.263
QPSK	837.5	24075	15	36	29	21.65	24.00	0.251
QPSK	837.5	24075	15	36	30	21.64	23.99	0.251
QPSK	837.5	24075	15	75	0	21.68	24.03	0.253

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	837.5	24075	15	1	0	21.66	24.01	0.252
16QAM	837.5	24075	15	1	37	22.01	24.36	0.273
16QAM	837.5	24075	15	1	74	21.57	23.92	0.247
16QAM	837.5	24075	15	36	0	20.88	23.23	0.210
16QAM	837.5	24075	15	36	29	20.72	23.07	0.203
16QAM	837.5	24075	15	36	30	20.72	23.07	0.203
16QAM	837.5	24075	15	75	0	20.77	23.12	0.205
16QAM	837.5	24075	15	1	0	22.27	24.62	0.290
16QAM	837.5	24075	15	1	37	22.05	24.40	0.275
16QAM	837.5	24075	15	1	74	21.29	23.64	0.231
16QAM	837.5	24075	15	36	0	20.91	23.26	0.212
16QAM	837.5	24075	15	36	29	20.75	23.10	0.204
16QAM	837.5	24075	15	36	30	20.65	23.00	0.200
16QAM	837.5	24075	15	75	0	20.73	23.08	0.203
16QAM	837.5	24075	15	1	0	22.00	24.35	0.272
16QAM	837.5	24075	15	1	37	22.26	24.61	0.289
16QAM	837.5	24075	15	1	74	21.66	24.01	0.252
16QAM	837.5	24075	15	36	0	20.86	23.21	0.209
16QAM	837.5	24075	15	36	29	20.71	23.06	0.202
16QAM	837.5	24075	15	36	30	20.75	23.10	0.204
16QAM	837.5	24075	15	75	0	20.71	23.06	0.202
64QAM	837.5	24075	15	1	0	21.82	24.17	0.261
64QAM	837.5	24075	15	1	37	22.04	24.39	0.275
64QAM	837.5	24075	15	1	74	21.25	23.60	0.229
64QAM	837.5	24075	15	36	0	20.90	23.25	0.211
64QAM	837.5	24075	15	36	29	20.70	23.05	0.202
64QAM	837.5	24075	15	36	30	20.71	23.06	0.202
64QAM	837.5	24075	15	75	0	20.77	23.12	0.205
64QAM	837.5	24075	15	1	0	21.92	24.27	0.267
64QAM	837.5	24075	15	1	37	21.79	24.14	0.259
64QAM	837.5	24075	15	1	74	21.02	23.37	0.217
64QAM	837.5	24075	15	36	0	20.82	23.17	0.207
64QAM	837.5	24075	15	36	29	20.74	23.09	0.204
64QAM	837.5	24075	15	36	30	20.62	22.97	0.198
64QAM	837.5	24075	15	75	0	20.75	23.10	0.204
64QAM	837.5	24075	15	1	0	21.79	24.14	0.259
64QAM	837.5	24075	15	1	37	21.54	23.89	0.245
64QAM	837.5	24075	15	1	74	21.08	23.43	0.220
64QAM	837.5	24075	15	36	0	20.95	23.30	0.214
64QAM	837.5	24075	15	36	29	20.66	23.01	0.200
64QAM	837.5	24075	15	36	30	20.67	23.02	0.200
64QAM	837.5	24075	15	75	0	20.74	23.09	0.204