

Fig.39

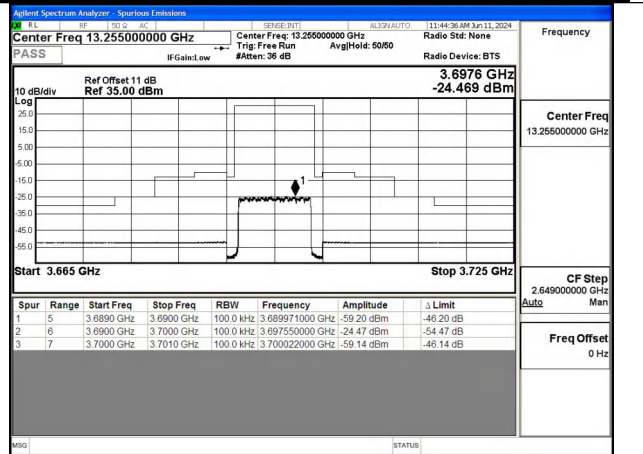


Fig.40

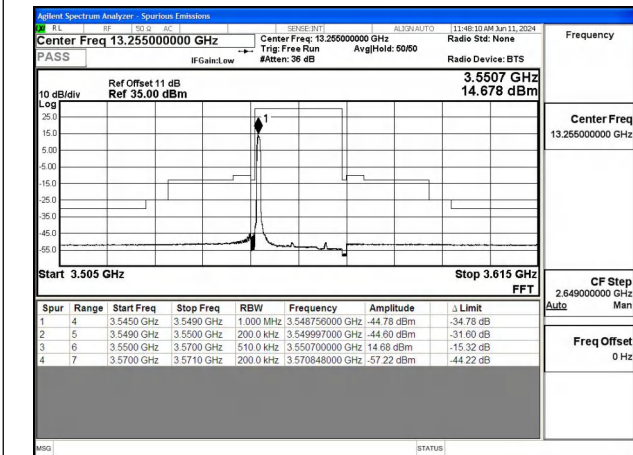


Fig.41

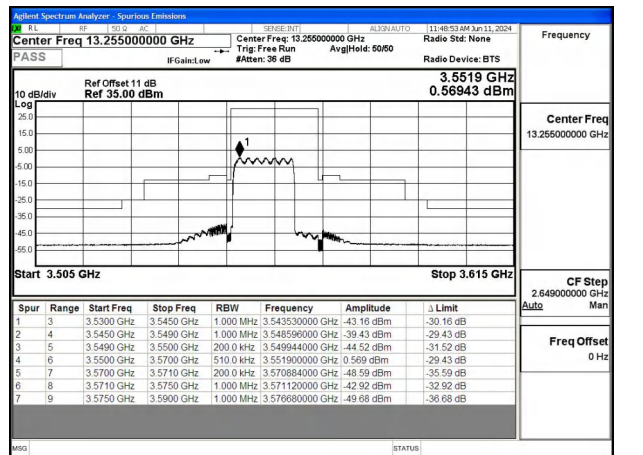


Fig.42

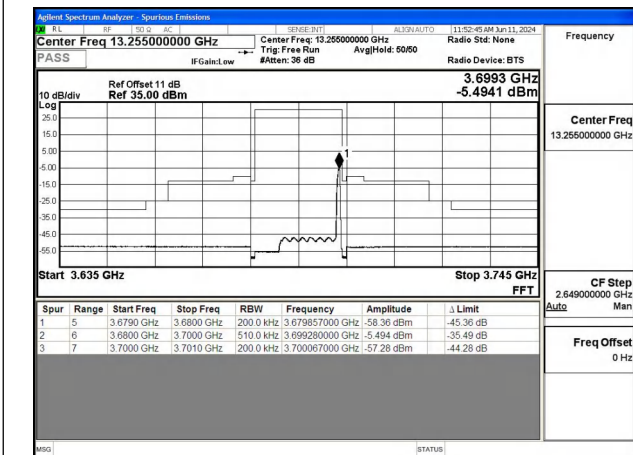


Fig.43

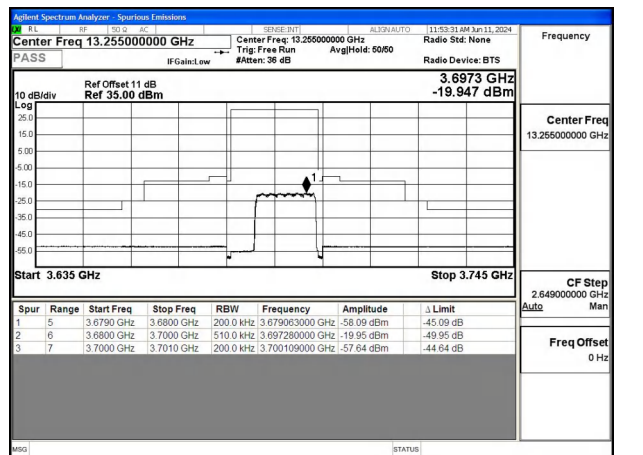


Fig.44

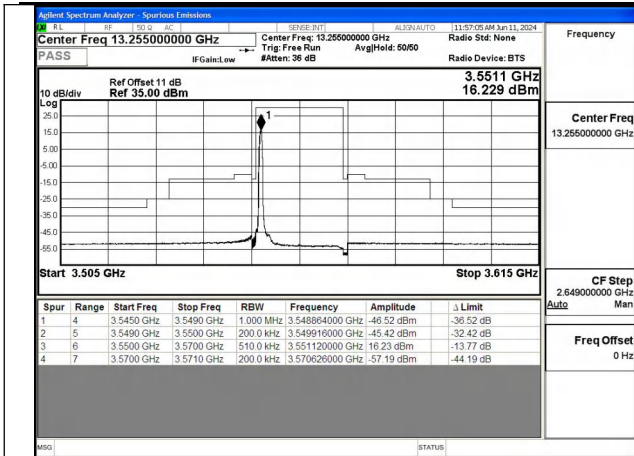


Fig.45

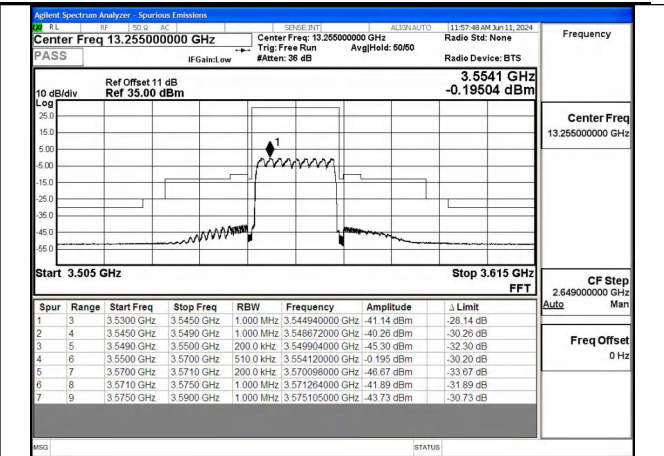


Fig.46

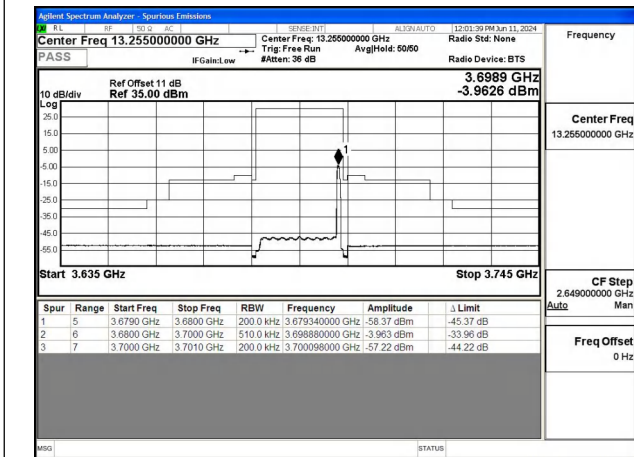


Fig.47

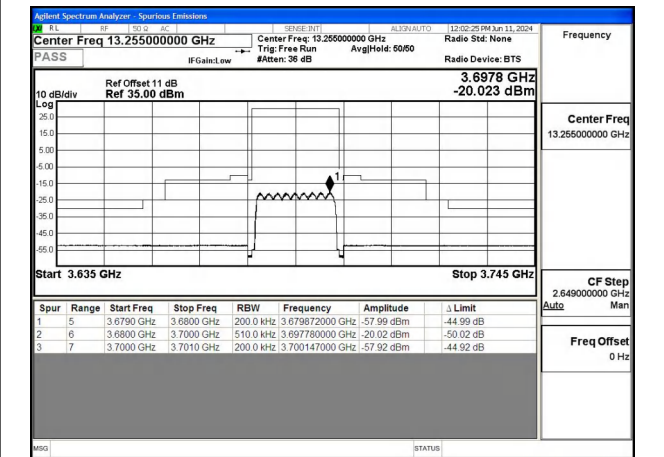


Fig.48

### 7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 48 Low Channel QPSK			
		5M	10M	15M	20M
-30	NV	-0.003	0.000	-0.003	-0.001
-20	NV	-0.004	-0.004	-0.002	-0.001
-10	NV	-0.004	-0.002	-0.003	-0.001
0	NV	-0.001	-0.003	-0.002	-0.003
+10	NV	0.002	-0.001	-0.002	-0.003
+20	NV	-0.002	-0.001	-0.002	-0.001
+30	NV	0.001	-0.001	-0.001	-0.002
+40	NV	0.002	-0.002	-0.002	-0.003
+50	NV	-0.002	-0.001	-0.003	-0.003
+20	LV	0.001	-0.004	-0.003	0.001
+20	HV	-0.006	-0.002	-0.003	-0.002

Temperature(°C)	Voltage	Test Result (ppm) Band 48 High Channel QPSK			
		5M	10M	15M	20M
-30	NV	-0.002	-0.003	-0.003	-0.001
-20	NV	-0.002	0.002	-0.002	-0.002
-10	NV	-0.001	-0.003	-0.002	-0.002
0	NV	-0.001	0.002	-0.001	-0.002
+10	NV	-0.003	0.001	0.000	0.001
+20	NV	-0.001	0.000	0.000	-0.002
+30	NV	-0.001	-0.002	-0.002	0.000
+40	NV	0.002	-0.001	0.000	-0.001
+50	NV	-0.003	-0.002	-0.002	0.002
+20	LV	0.001	0.001	-0.003	-0.001
+20	HV	0.000	-0.002	-0.003	-0.001

**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	3552.5	55265	5	1	0	22.98	25.54	0.358
QPSK	3552.5	55265	5	1	12	22.77	25.33	0.341
QPSK	3552.5	55265	5	1	24	22.65	25.21	0.332
QPSK	3552.5	55265	5	12	0	21.59	24.15	0.260
QPSK	3552.5	55265	5	12	7	21.63	24.19	0.262
QPSK	3552.5	55265	5	12	13	21.61	24.17	0.261
QPSK	3552.5	55265	5	25	0	21.58	24.14	0.259
QPSK	3625	55990	5	1	0	24.05	26.61	0.458
QPSK	3625	55990	5	1	12	24.16	26.72	0.470
QPSK	3625	55990	5	1	24	24.16	26.72	0.470
QPSK	3625	55990	5	12	0	23.03	25.59	0.362
QPSK	3625	55990	5	12	7	23.12	25.68	0.370
QPSK	3625	55990	5	12	13	23.11	25.67	0.369
QPSK	3625	55990	5	25	0	23.07	25.63	0.366
QPSK	3697.5	56715	5	1	0	23.23	25.79	0.379
QPSK	3697.5	56715	5	1	12	23.4	25.96	0.394
QPSK	3697.5	56715	5	1	24	23.4	25.96	0.394
QPSK	3697.5	56715	5	12	0	22.42	24.98	0.315
QPSK	3697.5	56715	5	12	7	22.48	25.04	0.319
QPSK	3697.5	56715	5	12	13	22.48	25.04	0.319
QPSK	3697.5	56715	5	25	0	22.43	24.99	0.316

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3552.5	55265	5	1	0	22.07	24.63	0.290
16QAM	3552.5	55265	5	1	12	22.12	24.68	0.294
16QAM	3552.5	55265	5	1	24	22.12	24.68	0.294
16QAM	3552.5	55265	5	12	0	20.6	23.16	0.207
16QAM	3552.5	55265	5	12	7	20.5	23.06	0.202
16QAM	3552.5	55265	5	12	13	20.6	23.16	0.207
16QAM	3552.5	55265	5	25	0	20.54	23.10	0.204
16QAM	3625	55990	5	1	0	23.2	25.76	0.377
16QAM	3625	55990	5	1	12	23.3	25.86	0.385
16QAM	3625	55990	5	1	24	23.26	25.82	0.382
16QAM	3625	55990	5	12	0	22.14	24.70	0.295
16QAM	3625	55990	5	12	7	22.04	24.60	0.288
16QAM	3625	55990	5	12	13	22.08	24.64	0.291
16QAM	3625	55990	5	25	0	22.05	24.61	0.289
16QAM	3697.5	56715	5	1	0	22.84	25.40	0.347
16QAM	3697.5	56715	5	1	12	22.91	25.47	0.352
16QAM	3697.5	56715	5	1	24	22.64	25.20	0.331
16QAM	3697.5	56715	5	12	0	21.54	24.10	0.257
16QAM	3697.5	56715	5	12	7	21.59	24.15	0.260
16QAM	3697.5	56715	5	12	13	21.53	24.09	0.256
16QAM	3697.5	56715	5	25	0	21.51	24.07	0.255
64QAM	3552.5	55265	5	1	0	21.68	24.24	0.265
64QAM	3552.5	55265	5	1	12	21.79	24.35	0.272
64QAM	3552.5	55265	5	1	24	21.65	24.21	0.264
64QAM	3552.5	55265	5	12	0	20.53	23.09	0.204
64QAM	3552.5	55265	5	12	7	20.56	23.12	0.205
64QAM	3552.5	55265	5	12	13	20.55	23.11	0.205
64QAM	3552.5	55265	5	25	0	20.54	23.10	0.204
64QAM	3625	55990	5	1	0	22.87	25.43	0.349
64QAM	3625	55990	5	1	12	23.19	25.75	0.376
64QAM	3625	55990	5	1	24	23.28	25.84	0.384
64QAM	3625	55990	5	12	0	22.01	24.57	0.286
64QAM	3625	55990	5	12	7	22.1	24.66	0.292
64QAM	3625	55990	5	12	13	22.08	24.64	0.291
64QAM	3625	55990	5	25	0	22.05	24.61	0.289
64QAM	3697.5	56715	5	1	0	22.49	25.05	0.320
64QAM	3697.5	56715	5	1	12	23.09	25.65	0.367
64QAM	3697.5	56715	5	1	24	22.41	24.97	0.314
64QAM	3697.5	56715	5	12	0	21.44	24.00	0.251
64QAM	3697.5	56715	5	12	7	21.7	24.26	0.267
64QAM	3697.5	56715	5	12	13	21.67	24.23	0.265
64QAM	3697.5	56715	5	25	0	21.48	24.04	0.254

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	3555	55290	10	1	0	22.64	25.20	0.331
QPSK	3555	55290	10	1	25	22.75	25.31	0.340
QPSK	3555	55290	10	1	49	22.74	25.30	0.339
QPSK	3555	55290	10	25	0	21.59	24.15	0.260
QPSK	3555	55290	10	25	12	21.63	24.19	0.262
QPSK	3555	55290	10	25	25	21.65	24.21	0.264
QPSK	3555	55290	10	50	0	21.62	24.18	0.262
QPSK	3625	55990	10	1	0	24.4	26.96	0.497
QPSK	3625	55990	10	1	25	24.46	27.02	0.504
QPSK	3625	55990	10	1	49	24.48	27.04	0.506
QPSK	3625	55990	10	25	0	23.34	25.90	0.389
QPSK	3625	55990	10	25	12	23.37	25.93	0.392
QPSK	3625	55990	10	25	25	23.45	26.01	0.399
QPSK	3625	55990	10	50	0	23.38	25.94	0.393
QPSK	3695	56690	10	1	0	23.57	26.13	0.410
QPSK	3695	56690	10	1	25	23.56	26.12	0.409
QPSK	3695	56690	10	1	49	23.71	26.27	0.424
QPSK	3695	56690	10	25	0	22.58	25.14	0.327
QPSK	3695	56690	10	25	12	22.62	25.18	0.330
QPSK	3695	56690	10	25	25	22.68	25.24	0.334
QPSK	3695	56690	10	50	0	22.61	25.17	0.329

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3555	55290	10	1	0	22.08	24.64	0.291
16QAM	3555	55290	10	1	25	22.17	24.73	0.297
16QAM	3555	55290	10	1	49	21.93	24.49	0.281
16QAM	3555	55290	10	25	0	20.54	23.10	0.204
16QAM	3555	55290	10	25	12	20.62	23.18	0.208
16QAM	3555	55290	10	25	25	20.64	23.20	0.209
16QAM	3555	55290	10	50	0	20.59	23.15	0.207
16QAM	3625	55990	10	1	0	23.47	26.03	0.401
16QAM	3695	56690	10	1	0	22.7	25.26	0.336
16QAM	3695	56690	10	1	25	23.06	25.62	0.365
16QAM	3695	56690	10	1	49	23.04	25.60	0.363
16QAM	3695	56690	10	25	0	21.57	24.13	0.259
16QAM	3695	56690	10	25	12	21.66	24.22	0.264
16QAM	3695	56690	10	25	25	21.78	24.34	0.272
16QAM	3695	56690	10	50	0	21.66	24.22	0.264
16QAM	3625	55990	10	1	25	23.71	26.27	0.424
16QAM	3625	55990	10	1	49	23.78	26.34	0.431
16QAM	3625	55990	10	25	0	22.26	24.82	0.303
16QAM	3625	55990	10	25	12	22.37	24.93	0.311
16QAM	3625	55990	10	25	25	22.39	24.95	0.313
16QAM	3625	55990	10	50	0	22.37	24.93	0.311
64QAM	3555	55290	10	1	0	21.69	24.25	0.266
64QAM	3555	55290	10	1	25	21.9	24.46	0.279
64QAM	3555	55290	10	1	49	21.79	24.35	0.272
64QAM	3555	55290	10	25	0	20.54	23.10	0.204
64QAM	3555	55290	10	25	12	20.62	23.18	0.208
64QAM	3555	55290	10	25	25	20.61	23.17	0.207
64QAM	3555	55290	10	50	0	20.61	23.17	0.207
64QAM	3695	56690	10	1	0	22.55	25.11	0.324
64QAM	3695	56690	10	1	25	22.76	25.32	0.340
64QAM	3695	56690	10	1	49	22.98	25.54	0.358
64QAM	3695	56690	10	25	0	21.65	24.21	0.264
64QAM	3695	56690	10	25	12	21.65	24.21	0.264
64QAM	3695	56690	10	25	25	21.67	24.23	0.265
64QAM	3695	56690	10	50	0	21.64	24.20	0.263
64QAM	3625	55990	10	1	0	22.57	25.13	0.326
64QAM	3625	55990	10	1	25	22.48	25.04	0.319
64QAM	3625	55990	10	1	49	22.92	25.48	0.353
64QAM	3625	55990	10	25	0	21.26	23.82	0.241
64QAM	3625	55990	10	25	12	21.26	23.82	0.241
64QAM	3625	55990	10	25	25	21.28	23.84	0.242
64QAM	3625	55990	10	50	0	21.26	23.82	0.241

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	3557.5	55315	15	1	0	22.81	25.37	0.344
QPSK	3557.5	55315	15	1	37	22.89	25.45	0.351
QPSK	3557.5	55315	15	1	74	22.88	25.44	0.350
QPSK	3557.5	55315	15	36	0	21.72	24.28	0.268
QPSK	3557.5	55315	15	36	29	21.75	24.31	0.270
QPSK	3557.5	55315	15	36	30	21.76	24.32	0.270
QPSK	3557.5	55315	15	75	0	21.73	24.29	0.269
QPSK	3625	55990	15	1	0	24.11	26.67	0.465
QPSK	3625	55990	15	1	37	24.23	26.79	0.478
QPSK	3625	55990	15	1	74	24.33	26.89	0.489
QPSK	3625	55990	15	36	0	23.08	25.64	0.366
QPSK	3625	55990	15	36	29	23.2	25.76	0.377
QPSK	3625	55990	15	36	30	23.22	25.78	0.378
QPSK	3625	55990	15	75	0	23.17	25.73	0.374



Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3557.5	55315	15	1	0	22.25	24.81	0.303
16QAM	3557.5	55315	15	1	37	22.31	24.87	0.307
16QAM	3557.5	55315	15	1	74	22	24.56	0.286
16QAM	3557.5	55315	15	36	0	20.73	23.29	0.213
16QAM	3557.5	55315	15	36	29	20.79	23.35	0.216
16QAM	3557.5	55315	15	36	30	20.72	23.28	0.213
16QAM	3557.5	55315	15	75	0	20.68	23.24	0.211
16QAM	3625	55990	15	1	0	23.35	25.91	0.390
16QAM	3625	55990	15	1	37	23.5	26.06	0.404
16QAM	3625	55990	15	1	74	23.66	26.22	0.419
16QAM	3625	55990	15	36	0	22.07	24.63	0.290
16QAM	3625	55990	15	36	29	22.12	24.68	0.294
16QAM	3625	55990	15	36	30	22.2	24.76	0.299
16QAM	3625	55990	15	75	0	22.16	24.72	0.296
64QAM	3557.5	55315	15	1	0	21.03	23.59	0.229
64QAM	3557.5	55315	15	1	37	21.48	24.04	0.254
64QAM	3557.5	55315	15	1	74	21.06	23.62	0.230
64QAM	3557.5	55315	15	36	0	19.66	22.22	0.167
64QAM	3557.5	55315	15	36	29	19.61	22.17	0.165
64QAM	3557.5	55315	15	36	30	19.62	22.18	0.165
64QAM	3557.5	55315	15	75	0	19.6	22.16	0.164
64QAM	3625	55990	15	1	0	22.44	25.00	0.316
64QAM	3625	55990	15	1	37	22.62	25.18	0.330
64QAM	3625	55990	15	1	74	22.57	25.13	0.326
64QAM	3625	55990	15	36	0	21.04	23.60	0.229
64QAM	3625	55990	15	36	29	21.2	23.76	0.238
64QAM	3625	55990	15	36	30	21.17	23.73	0.236
64QAM	3625	55990	15	75	0	21.09	23.65	0.232

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	3560	55340	20	1	0	22.86	25.42	0.348
QPSK	3560	55340	20	1	49	22.98	25.54	0.358
QPSK	3560	55340	20	1	99	22.88	25.44	0.350
QPSK	3560	55340	20	50	0	21.87	24.43	0.277
QPSK	3560	55340	20	50	24	21.85	24.41	0.276
QPSK	3560	55340	20	50	50	21.86	24.42	0.277
QPSK	3560	55340	20	100	0	21.86	24.42	0.277

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3560	55340	20	1	0	21.85	24.41	0.276
16QAM	3560	55340	20	1	49	22.04	24.60	0.288
16QAM	3560	55340	20	1	99	22.01	24.57	0.286
16QAM	3560	55340	20	50	0	20.83	23.39	0.218
16QAM	3560	55340	20	50	24	20.78	23.34	0.216
16QAM	3560	55340	20	50	50	20.8	23.36	0.217
16QAM	3560	55340	20	100	0	20.8	23.36	0.217
64QAM	3560	55340	20	1	0	20.62	23.18	0.208
64QAM	3560	55340	20	1	49	21.27	23.83	0.242
64QAM	3560	55340	20	1	99	20.72	23.28	0.213
64QAM	3560	55340	20	50	0	19.75	22.31	0.170
64QAM	3560	55340	20	50	24	19.68	22.24	0.167
64QAM	3560	55340	20	50	50	19.69	22.25	0.168
64QAM	3560	55340	20	100	0	19.73	22.29	0.169