

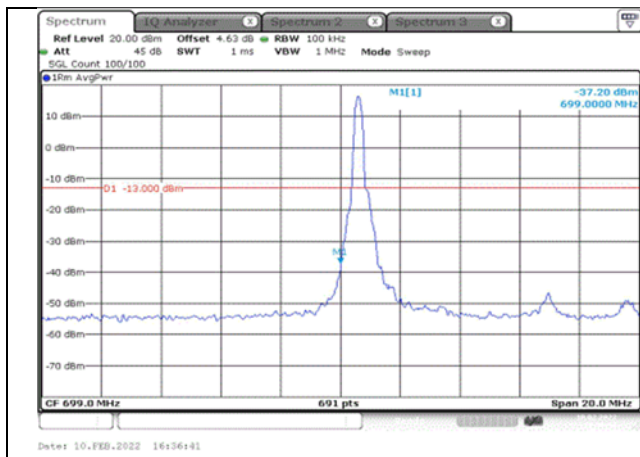


Fig.13

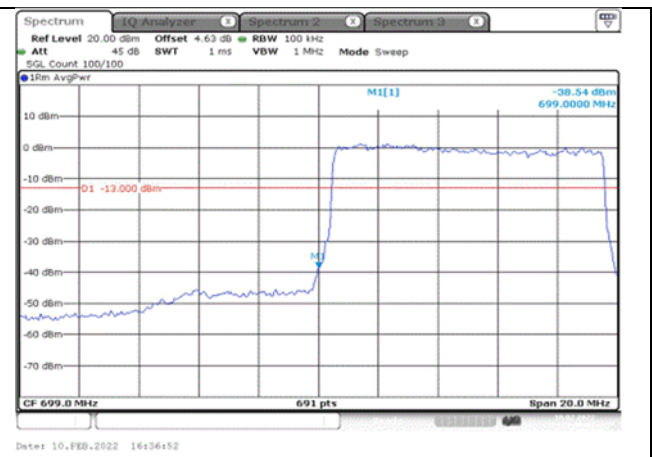


Fig.14

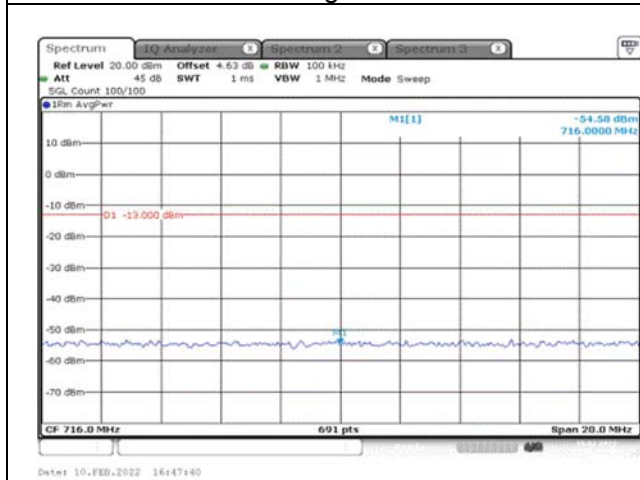


Fig.15

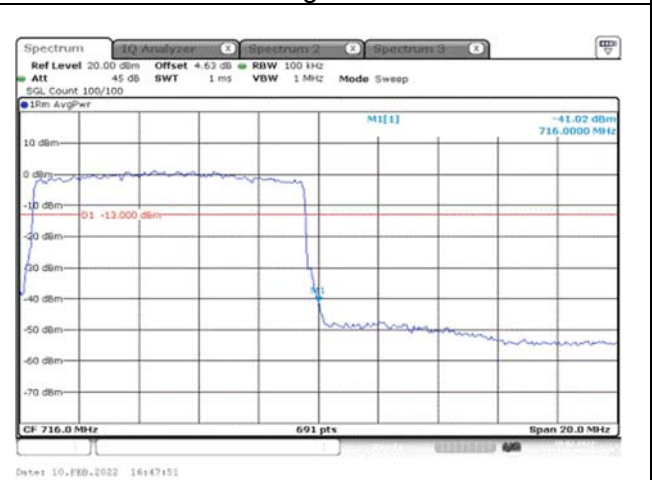


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 12 Low Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	0.003	0.001	0.003	0.005
0	NV	-0.002	0.001	0.002	0.007
+10	NV	-0.001	0.004	0.004	0.006
+30	NV	-0.002	0.004	-0.001	0.006
+40	NV	-0.002	0.001	0.002	0.005
+50	NV	-0.002	-0.001	0.001	0.005
+20	LV	-0.001	0.004	0.005	0.008
+20	HV	-0.002	0.002	0.001	0.006

Temperature(°C)	Voltage	Test Result (ppm) Band 12 High Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	0.008	0.001	0.008	0.005
0	NV	-0.002	0.003	0.006	0.006
+10	NV	0.008	0.002	0.009	0.007
+30	NV	-0.001	-0.002	0.006	-0.008
+40	NV	-0.002	0.001	0.007	0.006
+50	NV	-0.003	0.001	0.007	-0.008
+20	LV	-0.003	0.003	-0.006	-0.006
+20	HV	-0.006	-0.001	0.006	-0.008

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	699.7	23017	1.4	1	0	22.69	16.54	0.045
16QAM	699.7	23017	1.4	1	3	22.76	16.61	0.046
16QAM	699.7	23017	1.4	1	5	22.62	16.47	0.044
16QAM	699.7	23017	1.4	3	0	22.90	16.75	0.047
16QAM	699.7	23017	1.4	3	1	22.79	16.64	0.046
16QAM	699.7	23017	1.4	3	3	22.98	16.83	0.048
16QAM	699.7	23017	1.4	6	0	21.75	15.60	0.036
16QAM	707.5	23095	1.4	1	0	22.81	16.66	0.046
16QAM	707.5	23095	1.4	1	3	22.71	16.56	0.045
16QAM	707.5	23095	1.4	1	5	22.71	16.56	0.045
16QAM	707.5	23095	1.4	3	0	22.86	16.71	0.047
16QAM	707.5	23095	1.4	3	1	22.94	16.79	0.048
16QAM	707.5	23095	1.4	3	3	23.10	16.95	0.050
16QAM	707.5	23095	1.4	6	0	21.67	15.52	0.036
16QAM	715.3	23173	1.4	1	0	22.91	16.76	0.047
16QAM	715.3	23173	1.4	1	3	22.68	16.53	0.045
16QAM	715.3	23173	1.4	1	5	22.90	16.75	0.047
16QAM	715.3	23173	1.4	3	0	22.67	16.52	0.045
16QAM	715.3	23173	1.4	3	1	22.66	16.51	0.045
16QAM	715.3	23173	1.4	3	3	22.70	16.55	0.045
16QAM	715.3	23173	1.4	6	0	21.89	15.74	0.037
64QAM	699.7	23017	1.4	1	0	22.24	16.09	0.041
64QAM	699.7	23017	1.4	1	3	22.22	16.07	0.040
64QAM	699.7	23017	1.4	1	5	22.06	15.91	0.039
64QAM	699.7	23017	1.4	3	0	22.05	15.90	0.039
64QAM	699.7	23017	1.4	3	1	22.04	15.89	0.039
64QAM	699.7	23017	1.4	3	3	22.02	15.87	0.039
64QAM	699.7	23017	1.4	6	0	20.63	14.48	0.028
64QAM	707.5	23095	1.4	1	0	22.15	16.00	0.040
64QAM	707.5	23095	1.4	1	3	22.21	16.06	0.040
64QAM	707.5	23095	1.4	1	5	22.18	16.03	0.040
64QAM	707.5	23095	1.4	3	0	21.97	15.82	0.038
64QAM	707.5	23095	1.4	3	1	22.16	16.01	0.040
64QAM	707.5	23095	1.4	3	3	22.06	15.91	0.039
64QAM	707.5	23095	1.4	6	0	20.71	14.56	0.029
64QAM	715.3	23173	1.4	1	0	21.84	15.69	0.037
64QAM	715.3	23173	1.4	1	3	21.78	15.63	0.037
64QAM	715.3	23173	1.4	1	5	21.73	15.58	0.036
64QAM	715.3	23173	1.4	3	0	21.75	15.60	0.036
64QAM	715.3	23173	1.4	3	1	21.82	15.67	0.037
64QAM	715.3	23173	1.4	3	3	21.68	15.53	0.036
64QAM	715.3	23173	1.4	6	0	20.98	14.83	0.030

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	699.7	23017	1.4	1	0	23.57	17.42	0.055
QPSK	699.7	23017	1.4	1	3	23.41	17.26	0.053
QPSK	699.7	23017	1.4	1	5	23.40	17.25	0.053
QPSK	699.7	23017	1.4	3	0	23.57	17.42	0.055
QPSK	699.7	23017	1.4	3	1	23.55	17.40	0.055
QPSK	699.7	23017	1.4	3	3	23.44	17.29	0.054
QPSK	699.7	23017	1.4	6	0	22.72	16.57	0.045
QPSK	707.5	23095	1.4	1	0	23.33	17.18	0.052
QPSK	707.5	23095	1.4	1	3	23.48	17.33	0.054
QPSK	707.5	23095	1.4	1	5	23.39	17.24	0.053
QPSK	707.5	23095	1.4	3	0	23.35	17.20	0.052
QPSK	707.5	23095	1.4	3	1	23.49	17.34	0.054
QPSK	707.5	23095	1.4	3	3	23.31	17.16	0.052
QPSK	707.5	23095	1.4	6	0	22.70	16.55	0.045
QPSK	715.3	23173	1.4	1	0	23.47	17.32	0.054
QPSK	715.3	23173	1.4	1	3	23.50	17.35	0.054
QPSK	715.3	23173	1.4	1	5	23.41	17.26	0.053
QPSK	715.3	23173	1.4	3	0	23.48	17.33	0.054
QPSK	715.3	23173	1.4	3	1	23.39	17.24	0.053
QPSK	715.3	23173	1.4	3	3	23.39	17.24	0.053
QPSK	715.3	23173	1.4	6	0	22.66	16.51	0.045

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	700.5	23025	3	1	0	23.34	17.19	0.052
16QAM	700.5	23025	3	1	8	23.13	16.98	0.050
16QAM	700.5	23025	3	1	14	23.04	16.89	0.049
16QAM	700.5	23025	3	8	0	21.88	15.73	0.037
16QAM	700.5	23025	3	8	4	21.90	15.75	0.038
16QAM	700.5	23025	3	8	7	21.82	15.67	0.037
16QAM	700.5	23025	3	15	0	21.81	15.66	0.037
16QAM	707.5	23095	3	1	0	22.91	16.76	0.047
16QAM	707.5	23095	3	1	8	22.99	16.84	0.048
16QAM	707.5	23095	3	1	14	22.89	16.74	0.047
16QAM	707.5	23095	3	8	0	21.65	15.50	0.035
16QAM	707.5	23095	3	8	4	21.82	15.67	0.037
16QAM	707.5	23095	3	8	7	21.71	15.56	0.036
16QAM	707.5	23095	3	15	0	21.81	15.66	0.037
16QAM	714.5	23165	3	1	0	22.95	16.80	0.048
16QAM	714.5	23165	3	1	8	22.82	16.67	0.046
16QAM	714.5	23165	3	1	14	22.97	16.82	0.048
16QAM	714.5	23165	3	8	0	21.81	15.66	0.037
16QAM	714.5	23165	3	8	4	21.86	15.71	0.037
16QAM	714.5	23165	3	8	7	21.72	15.57	0.036
16QAM	714.5	23165	3	15	0	21.65	15.50	0.035
64QAM	700.5	23025	3	1	0	22.15	16.00	0.040
64QAM	700.5	23025	3	1	8	22.35	16.20	0.042
64QAM	700.5	23025	3	1	14	22.11	15.96	0.039
64QAM	700.5	23025	3	8	0	20.84	14.69	0.029
64QAM	700.5	23025	3	8	4	20.88	14.73	0.030
64QAM	700.5	23025	3	8	7	20.73	14.58	0.029
64QAM	700.5	23025	3	15	0	20.70	14.55	0.029
64QAM	707.5	23095	3	1	0	22.10	15.95	0.000
64QAM	707.5	23095	3	1	8	22.19	16.04	0.040
64QAM	707.5	23095	3	1	14	22.15	16.00	0.040
64QAM	707.5	23095	3	8	0	20.81	14.66	0.029
64QAM	707.5	23095	3	8	4	20.80	14.65	0.029
64QAM	707.5	23095	3	8	7	20.73	14.58	0.029
64QAM	707.5	23095	3	15	0	20.89	14.74	0.030
64QAM	714.5	23165	3	1	0	21.81	15.66	0.037
64QAM	714.5	23165	3	1	8	21.87	15.72	0.037
64QAM	714.5	23165	3	1	14	21.85	15.70	0.037
64QAM	714.5	23165	3	8	0	20.67	14.52	0.028
64QAM	714.5	23165	3	8	4	20.75	14.60	0.029
64QAM	714.5	23165	3	8	7	20.81	14.66	0.029
64QAM	714.5	23165	3	15	0	20.84	14.69	0.029

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	23.36	17.21	0.053
QPSK	700.5	23025	3	1	8	23.48	17.33	0.054
QPSK	700.5	23025	3	1	14	23.45	17.30	0.054
QPSK	700.5	23025	3	8	0	22.76	16.61	0.046
QPSK	700.5	23025	3	8	4	22.71	16.56	0.045
QPSK	700.5	23025	3	8	7	22.73	16.58	0.045
QPSK	700.5	23025	3	15	0	22.82	16.67	0.046
QPSK	707.5	23095	3	1	0	23.49	17.34	0.054
QPSK	707.5	23095	3	1	8	23.50	17.35	0.054
QPSK	707.5	23095	3	1	14	23.48	17.33	0.054
QPSK	707.5	23095	3	8	0	22.71	16.56	0.045
QPSK	707.5	23095	3	8	4	22.78	16.63	0.046
QPSK	707.5	23095	3	8	7	22.72	16.57	0.045
QPSK	707.5	23095	3	15	0	22.76	16.61	0.046
QPSK	714.5	23165	3	1	0	23.49	17.34	0.054
QPSK	714.5	23165	3	1	8	23.63	17.48	0.056
QPSK	714.5	23165	3	1	14	23.46	17.31	0.054
QPSK	714.5	23165	3	8	0	22.70	16.55	0.045
QPSK	714.5	23165	3	8	4	22.77	16.62	0.046
QPSK	714.5	23165	3	8	7	22.72	16.57	0.045
QPSK	714.5	23165	3	15	0	22.72	16.57	0.045

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	701.5	23035	5	1	0	22.47	16.32	0.043
16QAM	701.5	23035	5	1	12	22.82	16.67	0.046
16QAM	701.5	23035	5	1	24	22.90	16.75	0.047
16QAM	701.5	23035	5	12	0	21.84	15.69	0.037
16QAM	701.5	23035	5	12	7	21.58	15.43	0.035
16QAM	701.5	23035	5	12	13	21.74	15.59	0.036
16QAM	701.5	23035	5	25	0	21.74	15.59	0.036
16QAM	707.5	23095	5	1	0	23.19	17.04	0.051
16QAM	707.5	23095	5	1	12	22.98	16.83	0.048
16QAM	707.5	23095	5	1	24	23.06	16.91	0.049
16QAM	707.5	23095	5	12	0	21.74	15.59	0.036
16QAM	707.5	23095	5	12	7	21.69	15.54	0.036
16QAM	707.5	23095	5	12	13	21.75	15.60	0.036
16QAM	707.5	23095	5	25	0	21.65	15.50	0.035
16QAM	713.5	23155	5	1	0	22.93	16.78	0.048
16QAM	713.5	23155	5	1	12	22.87	16.72	0.047
16QAM	713.5	23155	5	1	24	22.96	16.81	0.048
16QAM	713.5	23155	5	12	0	21.73	15.58	0.036
16QAM	713.5	23155	5	12	7	21.84	15.69	0.037
16QAM	713.5	23155	5	12	13	21.76	15.61	0.036
16QAM	713.5	23155	5	25	0	21.72	15.57	0.036
64QAM	701.5	23035	5	1	0	21.75	15.60	0.036
64QAM	701.5	23035	5	1	12	21.78	15.63	0.037
64QAM	701.5	23035	5	1	24	21.87	15.72	0.037
64QAM	701.5	23035	5	12	0	20.73	14.58	0.029
64QAM	701.5	23035	5	12	7	20.79	14.64	0.029
64QAM	701.5	23035	5	12	13	20.78	14.63	0.029
64QAM	701.5	23035	5	25	0	20.71	14.56	0.029
64QAM	707.5	23095	5	1	0	21.78	15.63	0.037
64QAM	707.5	23095	5	1	12	21.97	15.82	0.038
64QAM	707.5	23095	5	1	24	22.00	15.85	0.038
64QAM	707.5	23095	5	12	0	20.79	14.64	0.029
64QAM	707.5	23095	5	12	7	20.73	14.58	0.029
64QAM	707.5	23095	5	12	13	20.75	14.60	0.029
64QAM	707.5	23095	5	25	0	20.82	14.67	0.029
64QAM	713.5	23155	5	1	0	21.65	15.50	0.035
64QAM	713.5	23155	5	1	12	21.98	15.83	0.038
64QAM	713.5	23155	5	1	24	21.80	15.65	0.037
64QAM	713.5	23155	5	12	0	20.84	14.69	0.029
64QAM	713.5	23155	5	12	7	21.03	14.88	0.031
64QAM	713.5	23155	5	12	13	20.83	14.68	0.029
64QAM	713.5	23155	5	25	0	20.77	14.62	0.029

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	23.32	17.17	0.052
QPSK	701.5	23035	5	1	12	23.40	17.25	0.053
QPSK	701.5	23035	5	1	24	23.37	17.22	0.053
QPSK	701.5	23035	5	12	0	22.74	16.59	0.046
QPSK	701.5	23035	5	12	7	22.70	16.55	0.045
QPSK	701.5	23035	5	12	13	22.69	16.54	0.045
QPSK	701.5	23035	5	25	0	22.72	16.57	0.045
QPSK	707.5	23095	5	1	0	23.30	17.15	0.052
QPSK	707.5	23095	5	1	12	23.48	17.33	0.054
QPSK	707.5	23095	5	1	24	23.38	17.23	0.053
QPSK	707.5	23095	5	12	0	22.62	16.47	0.044
QPSK	707.5	23095	5	12	7	22.83	16.68	0.047
QPSK	707.5	23095	5	12	13	22.78	16.63	0.046
QPSK	707.5	23095	5	25	0	22.74	16.59	0.046
QPSK	713.5	23155	5	1	0	23.50	17.35	0.054
QPSK	713.5	23155	5	1	12	23.37	17.22	0.053
QPSK	713.5	23155	5	1	24	23.38	17.23	0.053
QPSK	713.5	23155	5	12	0	22.68	16.53	0.045
QPSK	713.5	23155	5	12	7	22.76	16.61	0.046
QPSK	713.5	23155	5	12	13	22.64	16.49	0.045
QPSK	713.5	23155	5	25	0	22.64	16.49	0.045

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	704	23060	10	1	0	23.29	17.14	0.052
16QAM	704	23060	10	1	25	23.74	17.59	0.057
16QAM	704	23060	10	1	49	23.23	17.08	0.051
16QAM	704	23060	10	25	0	21.68	15.53	0.036
16QAM	704	23060	10	25	12	21.74	15.59	0.036
16QAM	704	23060	10	25	25	21.86	15.71	0.037
16QAM	704	23060	10	50	0	21.83	15.68	0.037
16QAM	707.5	23095	10	1	0	23.41	17.26	0.053
16QAM	707.5	23095	10	1	25	23.76	17.61	0.058
16QAM	707.5	23095	10	1	49	23.50	17.35	0.054
16QAM	707.5	23095	10	25	0	21.76	15.61	0.036
16QAM	707.5	23095	10	25	12	21.86	15.71	0.037
16QAM	707.5	23095	10	25	25	21.77	15.62	0.036
16QAM	707.5	23095	10	50	0	21.78	15.63	0.037
16QAM	711	23130	10	1	0	22.96	16.81	0.048
16QAM	711	23130	10	1	25	22.82	16.67	0.046
16QAM	711	23130	10	1	49	22.98	16.83	0.048
16QAM	711	23130	10	25	0	21.76	15.61	0.036
16QAM	711	23130	10	25	12	21.80	15.65	0.037
16QAM	711	23130	10	25	25	21.89	15.74	0.037
16QAM	711	23130	10	50	0	21.70	15.55	0.036
64QAM	704	23060	10	1	0	21.99	15.84	0.000
64QAM	704	23060	10	1	25	22.10	15.95	0.039
64QAM	704	23060	10	1	49	22.19	16.04	0.040
64QAM	704	23060	10	25	0	20.67	14.52	0.028
64QAM	704	23060	10	25	12	20.87	14.72	0.030
64QAM	704	23060	10	25	25	20.83	14.68	0.029
64QAM	704	23060	10	50	0	20.68	14.53	0.028
64QAM	707.5	23095	10	1	0	22.10	15.95	0.039
64QAM	707.5	23095	10	1	25	22.10	15.95	0.039
64QAM	707.5	23095	10	1	49	22.18	16.03	0.040
64QAM	707.5	23095	10	25	0	20.89	14.74	0.030
64QAM	707.5	23095	10	25	12	20.94	14.79	0.030
64QAM	707.5	23095	10	25	25	20.80	14.65	0.029
64QAM	707.5	23095	10	50	0	20.86	14.71	0.030
64QAM	711	23130	10	1	0	22.01	15.86	0.039
64QAM	711	23130	10	1	25	21.79	15.64	0.037
64QAM	711	23130	10	1	49	22.10	15.95	0.039
64QAM	711	23130	10	25	0	20.78	14.63	0.029
64QAM	711	23130	10	25	12	20.82	14.67	0.029
64QAM	711	23130	10	25	25	20.96	14.81	0.030
64QAM	711	23130	10	50	0	20.82	14.67	0.029

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	704	23060	10	1	0	23.55	17.40	0.055
QPSK	704	23060	10	1	25	23.38	17.23	0.053
QPSK	704	23060	10	1	49	23.54	17.39	0.055
QPSK	704	23060	10	25	0	22.68	16.53	0.045
QPSK	704	23060	10	25	12	22.83	16.68	0.047
QPSK	704	23060	10	25	25	22.82	16.67	0.046
QPSK	704	23060	10	50	0	22.84	16.69	0.047
QPSK	707.5	23095	10	1	0	23.64	17.49	0.056
QPSK	707.5	23095	10	1	25	23.40	17.25	0.053
QPSK	707.5	23095	10	1	49	23.52	17.37	0.055
QPSK	707.5	23095	10	25	0	22.72	16.57	0.045
QPSK	707.5	23095	10	25	12	22.69	16.54	0.045
QPSK	707.5	23095	10	25	25	22.76	16.61	0.046
QPSK	707.5	23095	10	50	0	22.77	16.62	0.046
QPSK	711	23130	10	1	0	23.54	17.39	0.055
QPSK	711	23130	10	1	25	23.52	17.37	0.055
QPSK	711	23130	10	1	49	23.62	17.47	0.056
QPSK	711	23130	10	25	0	22.70	16.55	0.045
QPSK	711	23130	10	25	12	22.71	16.56	0.045
QPSK	711	23130	10	25	25	22.87	16.72	0.047
QPSK	711	23130	10	50	0	22.80	16.65	0.046