

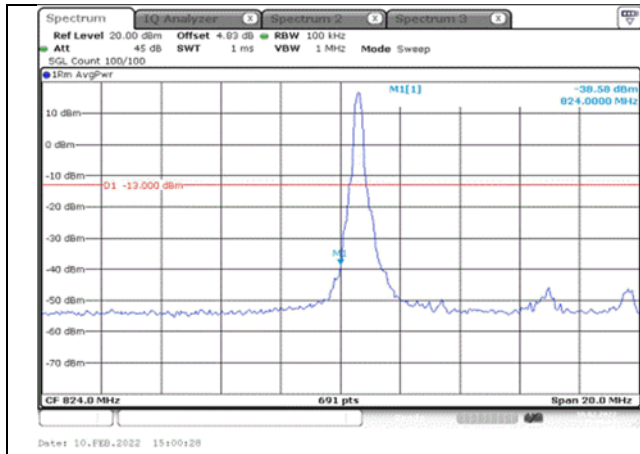


Fig.13

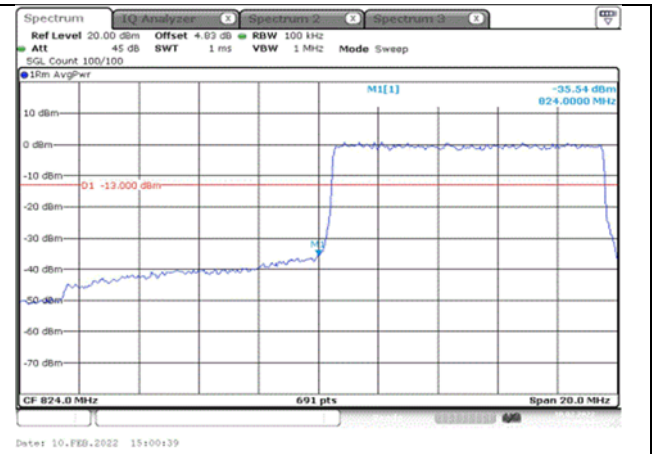


Fig.14

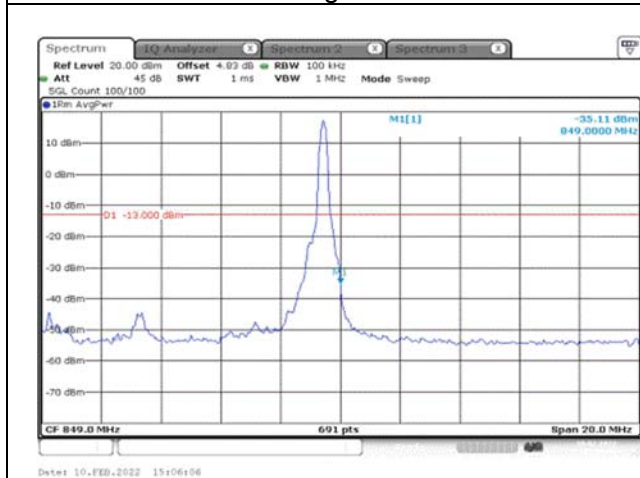


Fig.15

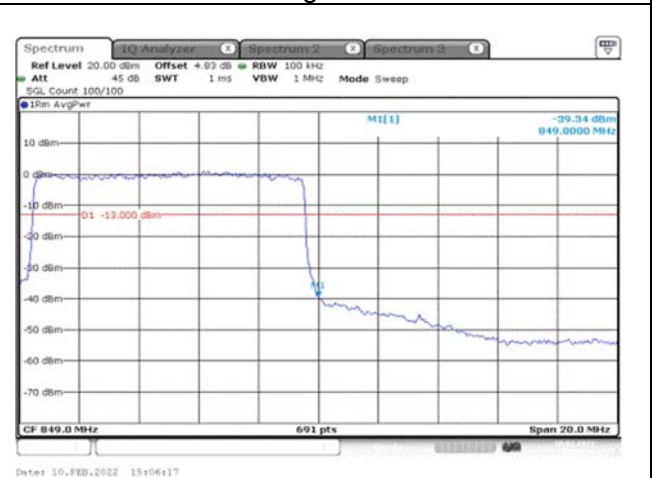


Fig.16

7 Frequency Stability

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

Temperature(°C)	Voltage	Test Result (ppm) Band 5 High Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	0.001	0.002	0.006	0.007
0	NV	0.004	0.004	-0.003	0.006
+10	NV	-0.005	0.000	0.007	-0.005
+30	NV	0.001	0.001	0.006	-0.005
+40	NV	0.018	0.001	0.008	0.003
+50	NV	-0.003	0.001	0.006	0.004
+20	LV	-0.001	0.003	0.008	-0.006
+20	HV	-0.006	0.003	0.007	0.005

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	824.7	20407	1.4	1	0	22.86	16.21	0.042
16QAM	824.7	20407	1.4	1	3	22.91	16.26	0.042
16QAM	824.7	20407	1.4	1	5	22.86	16.21	0.042
16QAM	824.7	20407	1.4	3	0	22.98	16.33	0.043
16QAM	824.7	20407	1.4	3	1	23.04	16.39	0.044
16QAM	824.7	20407	1.4	3	3	23.16	16.51	0.000
16QAM	824.7	20407	1.4	6	0	21.94	15.29	0.034
16QAM	836.5	20525	1.4	1	0	22.87	16.22	0.042
16QAM	836.5	20525	1.4	1	3	23.12	16.47	0.044
16QAM	836.5	20525	1.4	1	5	22.88	16.23	0.042
16QAM	836.5	20525	1.4	3	0	22.88	16.23	0.042
16QAM	836.5	20525	1.4	3	1	22.86	16.21	0.042
16QAM	836.5	20525	1.4	3	3	22.76	16.11	0.041
16QAM	836.5	20525	1.4	6	0	21.86	15.21	0.033
16QAM	848.3	20643	1.4	1	0	22.95	16.30	0.043
16QAM	848.3	20643	1.4	1	3	22.88	16.23	0.042
16QAM	848.3	20643	1.4	1	5	23.03	16.38	0.043
16QAM	848.3	20643	1.4	3	0	22.59	15.94	0.039
16QAM	848.3	20643	1.4	3	1	22.50	15.85	0.038
16QAM	848.3	20643	1.4	3	3	22.52	15.87	0.039
16QAM	848.3	20643	1.4	6	0	21.76	15.11	0.032
64QAM	824.7	20407	1.4	1	0	22.21	15.56	0.036
64QAM	824.7	20407	1.4	1	3	22.49	15.84	0.038
64QAM	824.7	20407	1.4	1	5	22.23	15.58	0.036
64QAM	824.7	20407	1.4	3	0	22.22	15.57	0.036
64QAM	824.7	20407	1.4	3	1	22.07	15.42	0.035
64QAM	824.7	20407	1.4	3	3	22.18	15.53	0.036
64QAM	824.7	20407	1.4	6	0	20.88	14.23	0.026
64QAM	836.5	20525	1.4	1	0	21.77	15.12	0.033
64QAM	836.5	20525	1.4	1	3	22.00	15.35	0.034
64QAM	836.5	20525	1.4	1	5	21.88	15.23	0.033
64QAM	836.5	20525	1.4	3	0	21.77	15.12	0.033
64QAM	836.5	20525	1.4	3	1	22.03	15.38	0.035
64QAM	836.5	20525	1.4	3	3	21.87	15.22	0.033
64QAM	836.5	20525	1.4	6	0	21.04	14.39	0.027
64QAM	848.3	20643	1.4	1	0	21.89	15.24	0.033
64QAM	848.3	20643	1.4	1	3	21.99	15.34	0.034
64QAM	848.3	20643	1.4	1	5	21.78	15.13	0.033
64QAM	848.3	20643	1.4	3	0	21.65	15.00	0.032
64QAM	848.3	20643	1.4	3	1	21.84	15.19	0.033
64QAM	848.3	20643	1.4	3	3	21.77	15.12	0.033
64QAM	848.3	20643	1.4	6	0	20.82	14.17	0.026

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	824.7	20407	1.4	1	0	23.47	16.82	0.048
QPSK	824.7	20407	1.4	1	3	23.61	16.96	0.050
QPSK	824.7	20407	1.4	1	5	23.50	16.85	0.048
QPSK	824.7	20407	1.4	3	0	23.56	16.91	0.049
QPSK	824.7	20407	1.4	3	1	23.58	16.93	0.049
QPSK	824.7	20407	1.4	3	3	23.52	16.87	0.049
QPSK	824.7	20407	1.4	6	0	22.88	16.23	0.042
QPSK	836.5	20525	1.4	1	0	23.51	16.86	0.049
QPSK	836.5	20525	1.4	1	3	23.58	16.93	0.049
QPSK	836.5	20525	1.4	1	5	23.53	16.88	0.049
QPSK	836.5	20525	1.4	3	0	23.49	16.84	0.048
QPSK	836.5	20525	1.4	3	1	23.64	16.99	0.050
QPSK	836.5	20525	1.4	3	3	23.53	16.88	0.049
QPSK	836.5	20525	1.4	6	0	22.67	16.02	0.040
QPSK	848.3	20643	1.4	1	0	23.48	16.83	0.048
QPSK	848.3	20643	1.4	1	3	23.45	16.80	0.048
QPSK	848.3	20643	1.4	1	5	23.42	16.77	0.048
QPSK	848.3	20643	1.4	3	0	23.40	16.75	0.047
QPSK	848.3	20643	1.4	3	1	23.51	16.86	0.049
QPSK	848.3	20643	1.4	3	3	23.32	16.67	0.046
QPSK	848.3	20643	1.4	6	0	22.73	16.08	0.041

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	825.5	20415	3	1	0	23.36	16.71	0.047
16QAM	825.5	20415	3	1	8	23.48	16.83	0.048
16QAM	825.5	20415	3	1	14	23.34	16.69	0.047
16QAM	825.5	20415	3	8	0	21.99	15.34	0.034
16QAM	825.5	20415	3	8	4	21.94	15.29	0.034
16QAM	825.5	20415	3	8	7	22.00	15.35	0.034
16QAM	825.5	20415	3	15	0	21.94	15.29	0.034
16QAM	836.5	20525	3	1	0	22.98	16.33	0.043
16QAM	836.5	20525	3	1	8	23.00	16.35	0.043
16QAM	836.5	20525	3	1	14	23.16	16.51	0.045
16QAM	836.5	20525	3	8	0	21.84	15.19	0.033
16QAM	836.5	20525	3	8	4	21.90	15.25	0.033
16QAM	836.5	20525	3	8	7	21.88	15.23	0.033
16QAM	836.5	20525	3	15	0	21.82	15.17	0.033
16QAM	847.5	20635	3	1	0	23.12	16.47	0.044
16QAM	847.5	20635	3	1	8	23.10	16.45	0.044
16QAM	847.5	20635	3	1	14	22.97	16.32	0.043
16QAM	847.5	20635	3	8	0	21.87	15.22	0.033
16QAM	847.5	20635	3	8	4	21.86	15.21	0.033
16QAM	847.5	20635	3	8	7	21.91	15.26	0.034
16QAM	847.5	20635	3	15	0	21.81	15.16	0.033
64QAM	825.5	20415	3	1	0	22.39	15.74	0.037
64QAM	825.5	20415	3	1	8	22.26	15.61	0.036
64QAM	825.5	20415	3	1	14	22.37	15.72	0.037
64QAM	825.5	20415	3	8	0	20.86	14.21	0.026
64QAM	825.5	20415	3	8	4	20.93	14.28	0.027
64QAM	825.5	20415	3	8	7	20.94	14.29	0.027
64QAM	825.5	20415	3	15	0	20.86	14.21	0.026
64QAM	836.5	20525	3	1	0	21.94	15.29	0.034
64QAM	836.5	20525	3	1	8	22.05	15.40	0.035
64QAM	836.5	20525	3	1	14	22.04	15.39	0.035
64QAM	836.5	20525	3	8	0	20.78	14.13	0.026
64QAM	836.5	20525	3	8	4	20.77	14.12	0.026
64QAM	836.5	20525	3	8	7	20.92	14.27	0.027
64QAM	836.5	20525	3	15	0	20.95	14.30	0.027
64QAM	847.5	20635	3	1	0	22.42	15.77	0.038
64QAM	847.5	20635	3	1	8	22.40	15.75	0.038
64QAM	847.5	20635	3	1	14	22.24	15.59	0.036
64QAM	847.5	20635	3	8	0	20.91	14.26	0.027
64QAM	847.5	20635	3	8	4	21.03	14.38	0.027
64QAM	847.5	20635	3	8	7	20.86	14.21	0.026
64QAM	847.5	20635	3	15	0	20.87	14.22	0.026

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	825.5	20415	3	1	0	23.50	16.85	0.048
QPSK	825.5	20415	3	1	8	23.59	16.94	0.049
QPSK	825.5	20415	3	1	14	23.67	17.02	0.050
QPSK	825.5	20415	3	8	0	22.81	16.16	0.041
QPSK	825.5	20415	3	8	4	22.82	16.17	0.041
QPSK	825.5	20415	3	8	7	22.82	16.17	0.041
QPSK	825.5	20415	3	15	0	22.80	16.15	0.041
QPSK	836.5	20525	3	1	0	23.65	17.00	0.050
QPSK	836.5	20525	3	1	8	23.73	17.08	0.051
QPSK	836.5	20525	3	1	14	23.62	16.97	0.050
QPSK	836.5	20525	3	8	0	22.79	16.14	0.041
QPSK	836.5	20525	3	8	4	22.83	16.18	0.041
QPSK	836.5	20525	3	8	7	22.85	16.20	0.042
QPSK	836.5	20525	3	15	0	22.87	16.22	0.042
QPSK	847.5	20635	3	1	0	23.58	16.93	0.049
QPSK	847.5	20635	3	1	8	23.66	17.01	0.050
QPSK	847.5	20635	3	1	14	23.60	16.95	0.050
QPSK	847.5	20635	3	8	0	22.75	16.10	0.041
QPSK	847.5	20635	3	8	4	22.83	16.18	0.041
QPSK	847.5	20635	3	8	7	22.78	16.13	0.041
QPSK	847.5	20635	3	15	0	22.84	16.19	0.042

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	826.5	20425	5	1	0	23.04	16.39	0.044
16QAM	826.5	20425	5	1	12	22.91	16.26	0.042
16QAM	826.5	20425	5	1	24	22.98	16.33	0.043
16QAM	826.5	20425	5	12	0	21.94	15.29	0.034
16QAM	826.5	20425	5	12	7	21.73	15.08	0.032
16QAM	826.5	20425	5	12	13	21.90	15.25	0.033
16QAM	826.5	20425	5	25	0	21.85	15.20	0.033
16QAM	836.5	20525	5	1	0	23.39	16.74	0.047
16QAM	836.5	20525	5	1	12	23.23	16.58	0.045
16QAM	836.5	20525	5	1	24	23.38	16.73	0.047
16QAM	836.5	20525	5	12	0	21.74	15.09	0.032
16QAM	836.5	20525	5	12	7	21.84	15.19	0.033
16QAM	836.5	20525	5	12	13	21.92	15.27	0.034
16QAM	836.5	20525	5	25	0	21.62	14.97	0.031
16QAM	846.5	20625	5	1	0	23.10	16.45	0.044
16QAM	846.5	20625	5	1	12	23.19	16.54	0.045
16QAM	846.5	20625	5	1	24	23.04	16.39	0.044
16QAM	846.5	20625	5	12	0	21.73	15.08	0.032
16QAM	846.5	20625	5	12	7	21.87	15.22	0.033
16QAM	846.5	20625	5	12	13	21.70	15.05	0.032
16QAM	846.5	20625	5	25	0	21.79	15.14	0.033
64QAM	826.5	20425	5	1	0	22.00	15.35	0.034
64QAM	826.5	20425	5	1	12	21.87	15.22	0.033
64QAM	826.5	20425	5	1	24	21.91	15.26	0.034
64QAM	826.5	20425	5	12	0	20.96	14.31	0.027
64QAM	826.5	20425	5	12	7	21.02	14.37	0.027
64QAM	826.5	20425	5	12	13	20.95	14.30	0.027
64QAM	826.5	20425	5	25	0	20.85	14.20	0.026
64QAM	836.5	20525	5	1	0	22.25	15.60	0.036
64QAM	836.5	20525	5	1	12	22.16	15.51	0.036
64QAM	836.5	20525	5	1	24	22.14	15.49	0.035
64QAM	836.5	20525	5	12	0	20.84	14.19	0.026
64QAM	836.5	20525	5	12	7	20.86	14.21	0.026
64QAM	836.5	20525	5	12	13	20.89	14.24	0.027
64QAM	836.5	20525	5	25	0	20.76	14.11	0.026
64QAM	846.5	20625	5	1	0	21.93	15.28	0.034
64QAM	846.5	20625	5	1	12	21.93	15.28	0.034
64QAM	846.5	20625	5	1	24	22.01	15.36	0.034
64QAM	846.5	20625	5	12	0	20.83	14.18	0.026
64QAM	846.5	20625	5	12	7	20.92	14.27	0.027
64QAM	846.5	20625	5	12	13	20.77	14.12	0.026
64QAM	846.5	20625	5	25	0	20.72	14.07	0.026

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	826.5	20425	5	1	0	23.46	16.81	0.048
QPSK	826.5	20425	5	1	12	23.44	16.79	0.048
QPSK	826.5	20425	5	1	24	23.49	16.84	0.048
QPSK	826.5	20425	5	12	0	22.81	16.16	0.041
QPSK	826.5	20425	5	12	7	22.89	16.24	0.042
QPSK	826.5	20425	5	12	13	22.78	16.13	0.041
QPSK	826.5	20425	5	25	0	22.84	16.19	0.042
QPSK	836.5	20525	5	1	0	23.57	16.92	0.049
QPSK	836.5	20525	5	1	12	23.59	16.94	0.049
QPSK	836.5	20525	5	1	24	23.50	16.85	0.048
QPSK	836.5	20525	5	12	0	22.81	16.16	0.041
QPSK	836.5	20525	5	12	7	22.94	16.29	0.043
QPSK	836.5	20525	5	12	13	22.93	16.28	0.042
QPSK	836.5	20525	5	25	0	22.83	16.18	0.041
QPSK	846.5	20625	5	1	0	23.57	16.92	0.049
QPSK	846.5	20625	5	1	12	23.44	16.79	0.048
QPSK	846.5	20625	5	1	24	23.53	16.88	0.049
QPSK	846.5	20625	5	12	0	22.80	16.15	0.041
QPSK	846.5	20625	5	12	7	22.83	16.18	0.041
QPSK	846.5	20625	5	12	13	22.84	16.19	0.042
QPSK	846.5	20625	5	25	0	22.74	16.09	0.041

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	829	20450	10	1	0	23.77	17.12	0.052
16QAM	829	20450	10	1	25	23.51	16.86	0.049
16QAM	829	20450	10	1	49	23.64	16.99	0.050
16QAM	829	20450	10	25	0	21.87	15.22	0.033
16QAM	829	20450	10	25	12	21.97	15.32	0.034
16QAM	829	20450	10	25	25	21.90	15.25	0.033
16QAM	829	20450	10	50	0	21.94	15.29	0.034
16QAM	836.5	20525	10	1	0	22.93	16.28	0.042
16QAM	836.5	20525	10	1	25	23.05	16.40	0.044
16QAM	836.5	20525	10	1	49	23.01	16.36	0.043
16QAM	836.5	20525	10	25	0	21.93	15.28	0.034
16QAM	836.5	20525	10	25	12	22.01	15.36	0.034
16QAM	836.5	20525	10	25	25	22.03	15.38	0.035
16QAM	836.5	20525	10	50	0	21.95	15.30	0.034
16QAM	844	20600	10	1	0	23.06	16.41	0.044
16QAM	844	20600	10	1	25	22.89	16.24	0.042
16QAM	844	20600	10	1	49	22.85	16.20	0.042
16QAM	844	20600	10	25	0	21.83	15.18	0.033
16QAM	844	20600	10	25	12	21.86	15.21	0.033
16QAM	844	20600	10	25	25	21.83	15.18	0.033
16QAM	844	20600	10	50	0	21.84	15.19	0.033
64QAM	829	20450	10	1	0	22.29	15.64	0.037
64QAM	829	20450	10	1	25	22.19	15.54	0.036
64QAM	829	20450	10	1	49	22.23	15.58	0.036
64QAM	829	20450	10	25	0	20.87	14.22	0.026
64QAM	829	20450	10	25	12	20.97	14.32	0.027
64QAM	829	20450	10	25	25	20.92	14.27	0.027
64QAM	829	20450	10	50	0	20.96	14.31	0.027
64QAM	836.5	20525	10	1	0	22.03	15.38	0.035
64QAM	836.5	20525	10	1	25	21.80	15.15	0.033
64QAM	836.5	20525	10	1	49	22.20	15.55	0.036
64QAM	836.5	20525	10	25	0	20.94	14.29	0.027
64QAM	836.5	20525	10	25	12	21.00	14.35	0.000
64QAM	836.5	20525	10	25	25	21.07	14.42	0.028
64QAM	836.5	20525	10	50	0	20.85	14.20	0.026
64QAM	844	20600	10	1	0	22.16	15.51	0.036
64QAM	844	20600	10	1	25	22.10	15.45	0.035
64QAM	844	20600	10	1	49	22.03	15.38	0.035
64QAM	844	20600	10	25	0	20.87	14.22	0.026
64QAM	844	20600	10	25	12	20.92	14.27	0.027
64QAM	844	20600	10	25	25	20.93	14.28	0.027
64QAM	844	20600	10	50	0	20.93	14.28	0.027

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	829	20450	10	1	0	23.73	17.08	0.051
QPSK	829	20450	10	1	25	23.56	16.91	0.049
QPSK	829	20450	10	1	49	23.57	16.92	0.049
QPSK	829	20450	10	25	0	22.79	16.14	0.041
QPSK	829	20450	10	25	12	22.93	16.28	0.042
QPSK	829	20450	10	25	25	22.84	16.19	0.042
QPSK	829	20450	10	50	0	22.87	16.22	0.042
QPSK	836.5	20525	10	1	0	23.82	17.17	0.052
QPSK	836.5	20525	10	1	25	23.68	17.03	0.050
QPSK	836.5	20525	10	1	49	23.72	17.07	0.051
QPSK	836.5	20525	10	25	0	22.89	16.24	0.042
QPSK	836.5	20525	10	25	12	22.93	16.28	0.042
QPSK	836.5	20525	10	25	25	23.01	16.36	0.043
QPSK	836.5	20525	10	50	0	22.92	16.27	0.042
QPSK	844	20600	10	1	0	23.56	16.91	0.049
QPSK	844	20600	10	1	25	23.63	16.98	0.050
QPSK	844	20600	10	1	49	23.66	17.01	0.050
QPSK	844	20600	10	25	0	22.87	16.22	0.042
QPSK	844	20600	10	25	12	22.81	16.16	0.041
QPSK	844	20600	10	25	25	22.79	16.14	0.041
QPSK	844	20600	10	50	0	22.88	16.23	0.042