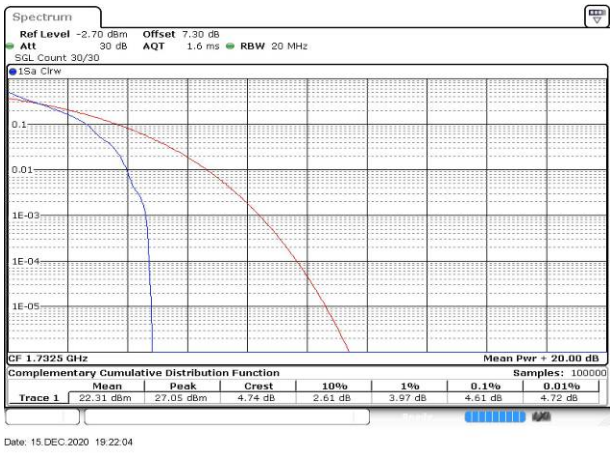

Fig.79

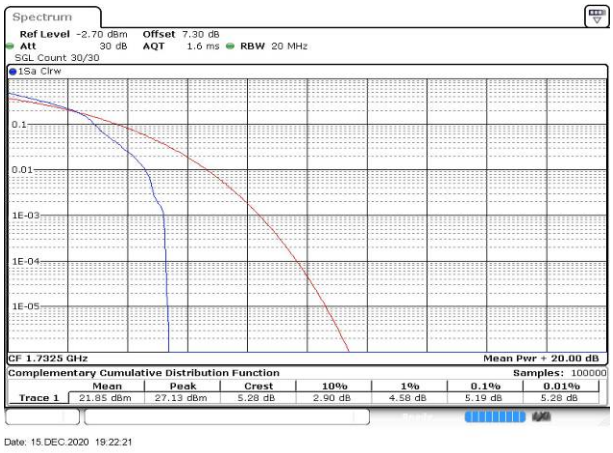

Fig.80

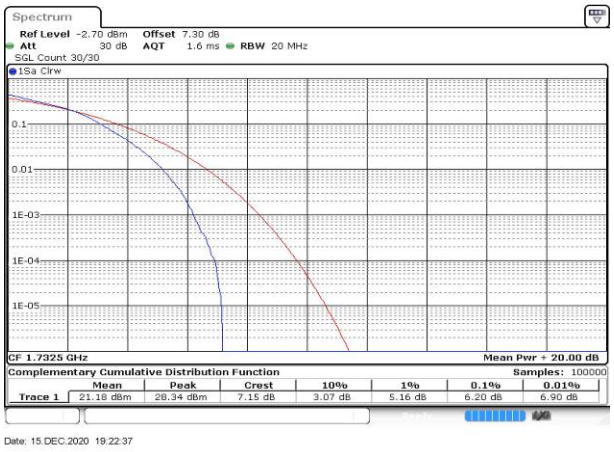

Fig.81

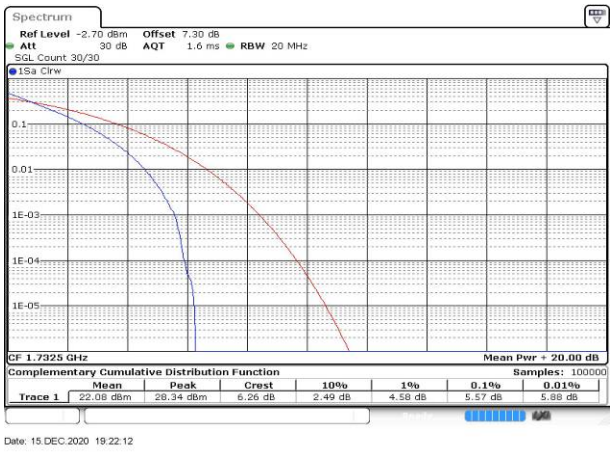

Fig.82

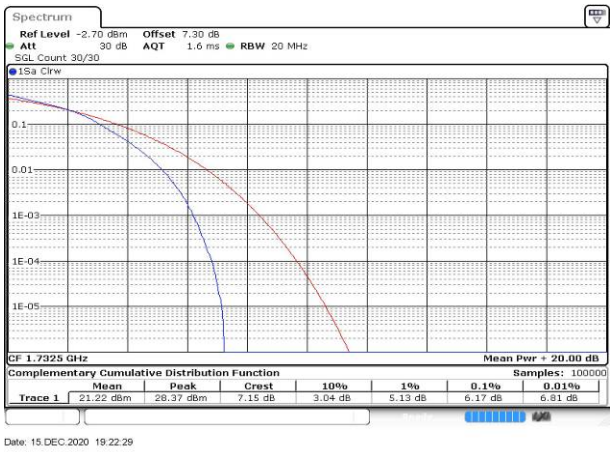

Fig.83

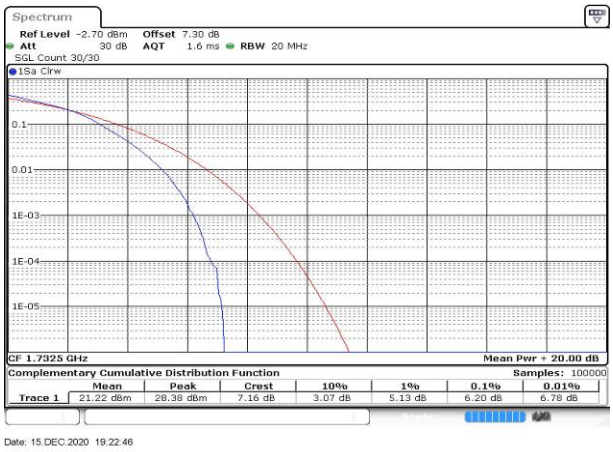

Fig.84

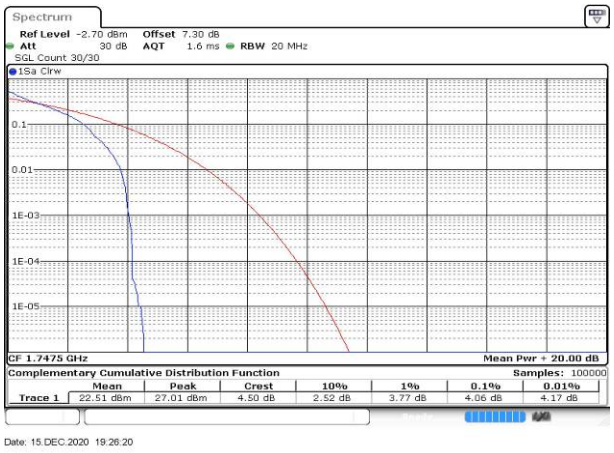

Fig.85

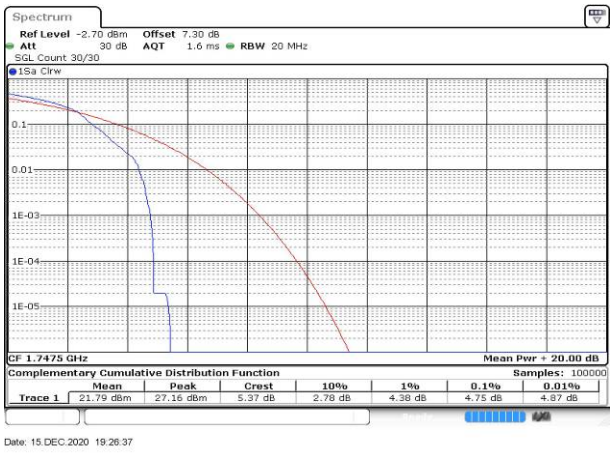

Fig.86

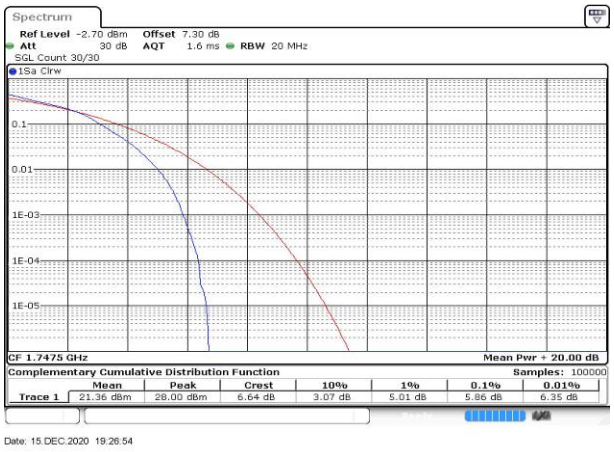

Fig.87

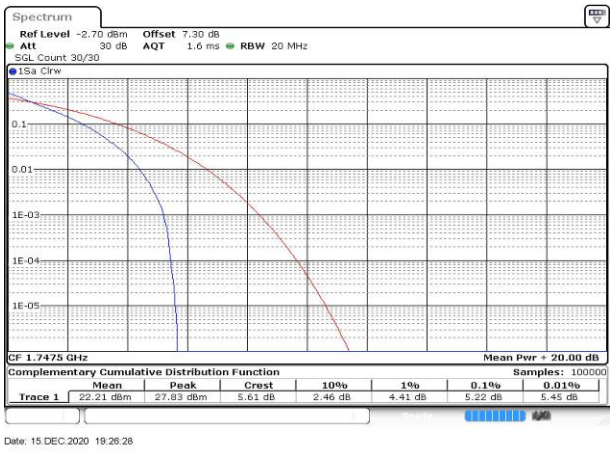

Fig.88

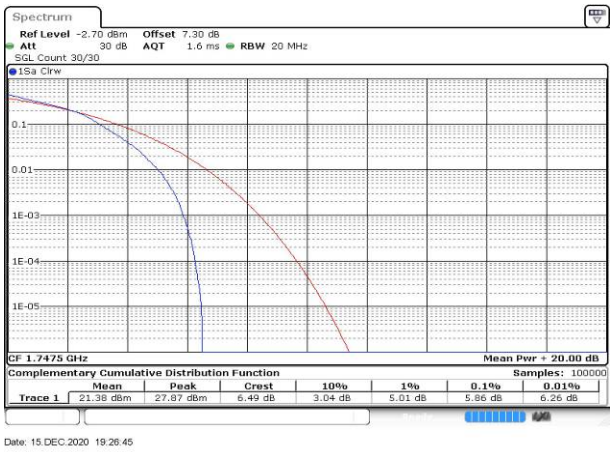

Fig.89

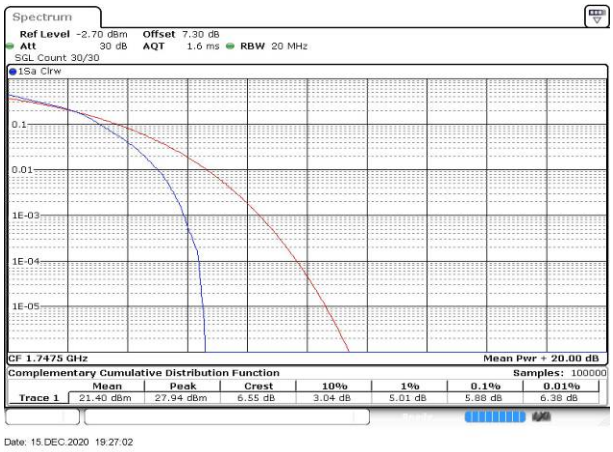

Fig.90

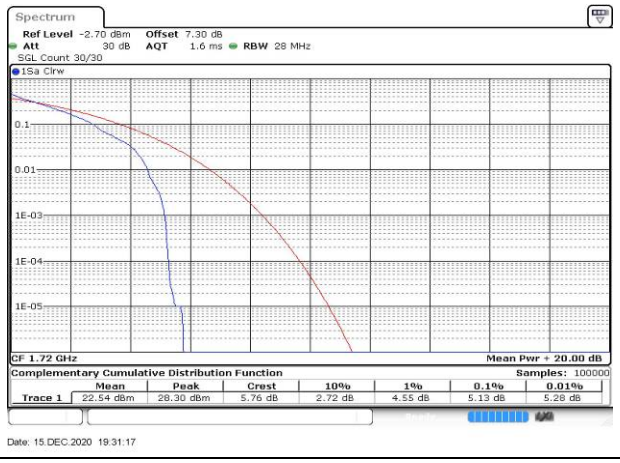

Fig.91

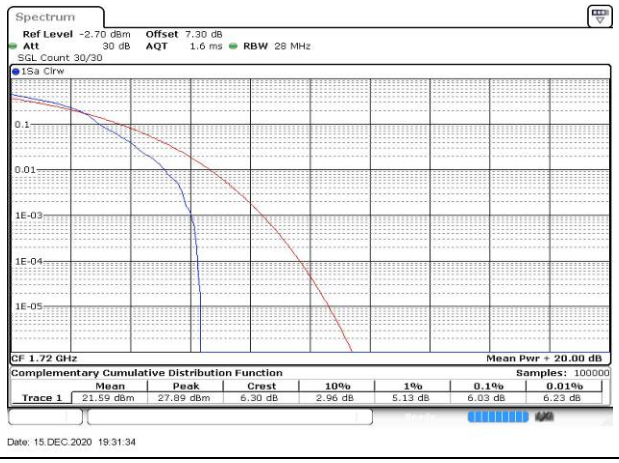

Fig.92

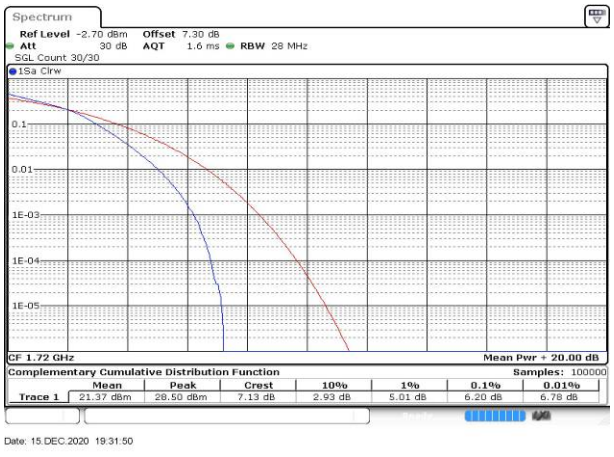

Fig.93

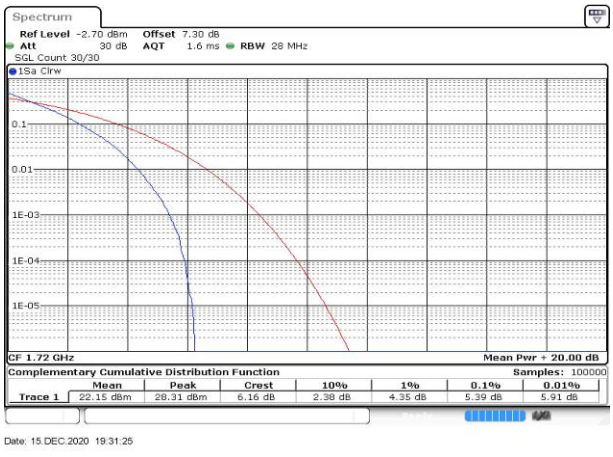

Fig.94

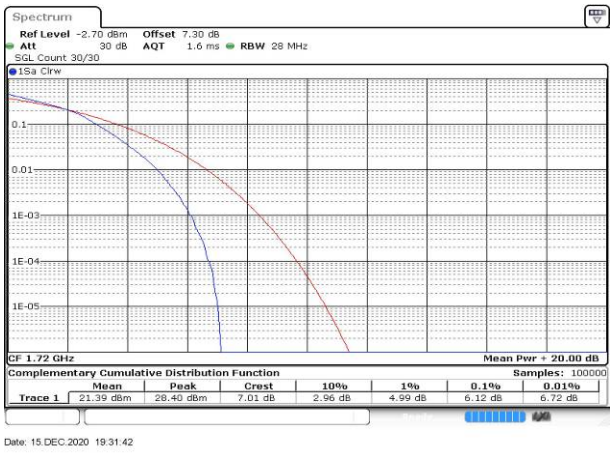

Fig.95

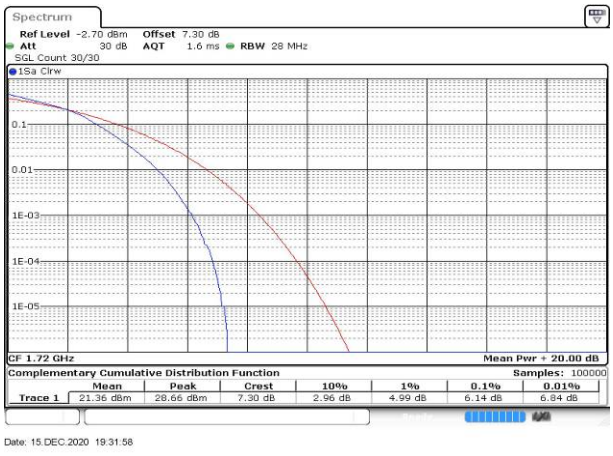

Fig.96

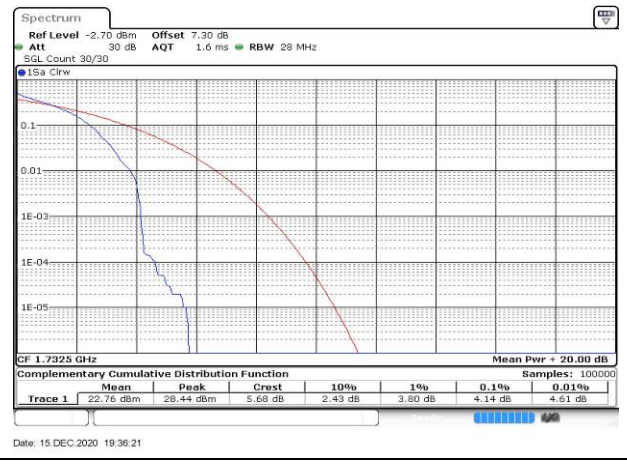

Fig.97

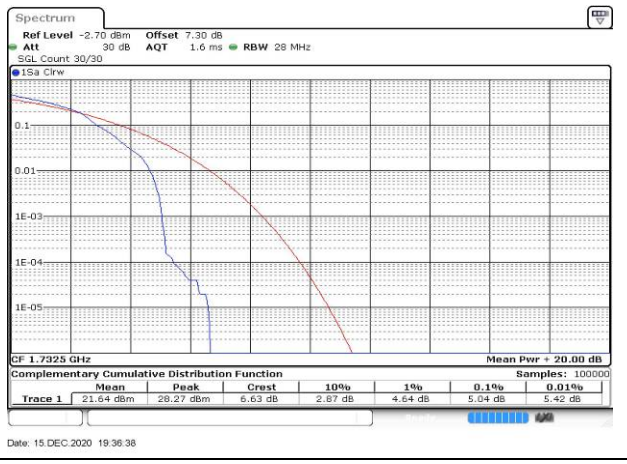

Fig.98

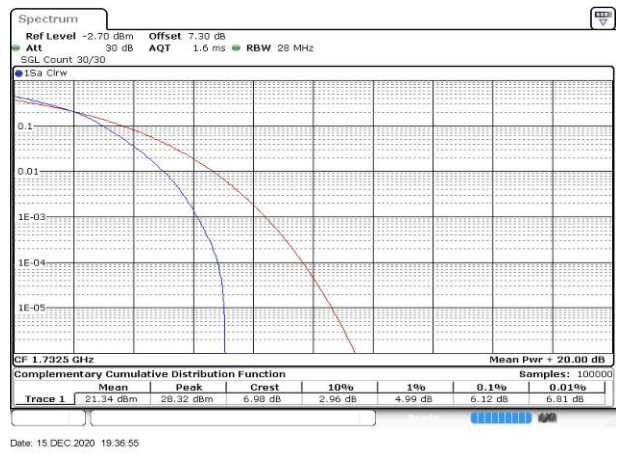

Fig.99

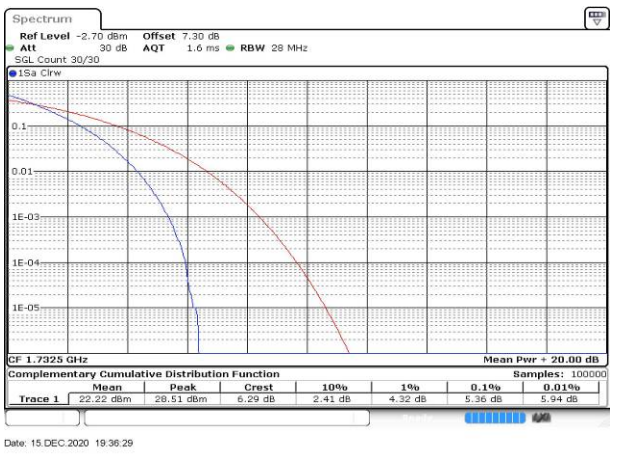

Fig.100

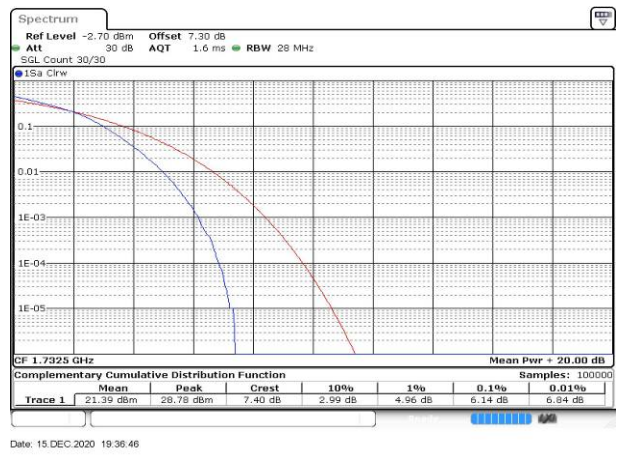

Fig.101

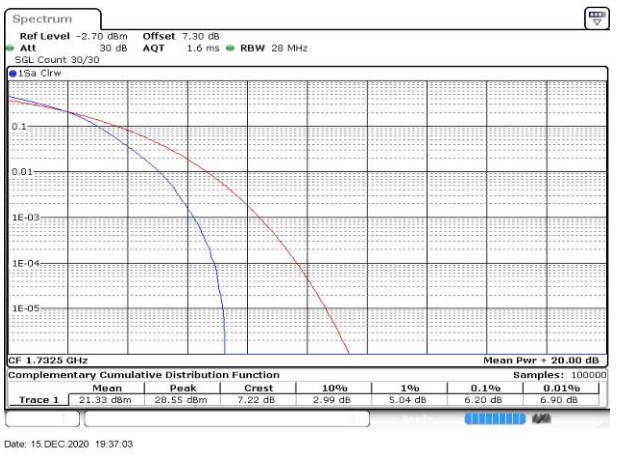

Fig.102

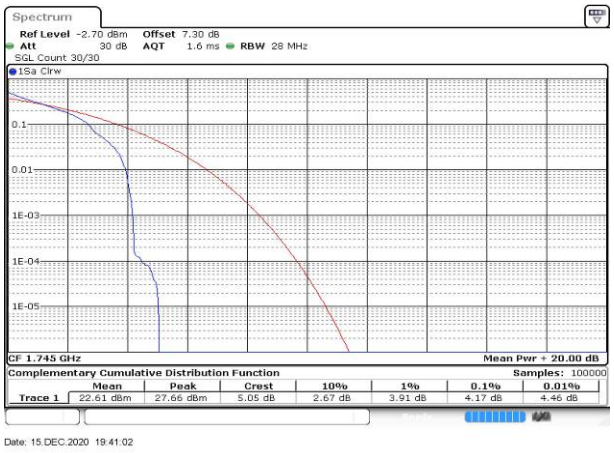

Fig.103

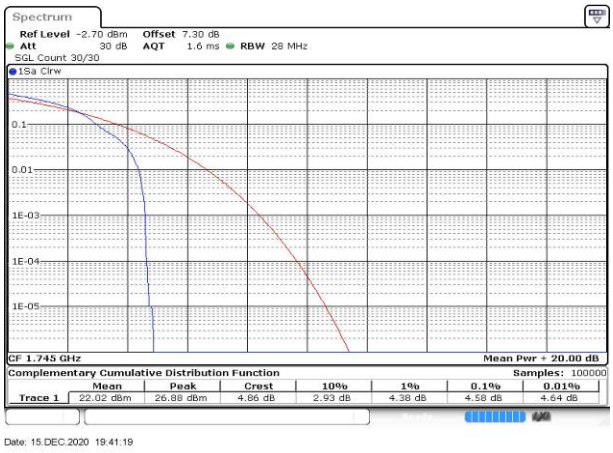

Fig.104

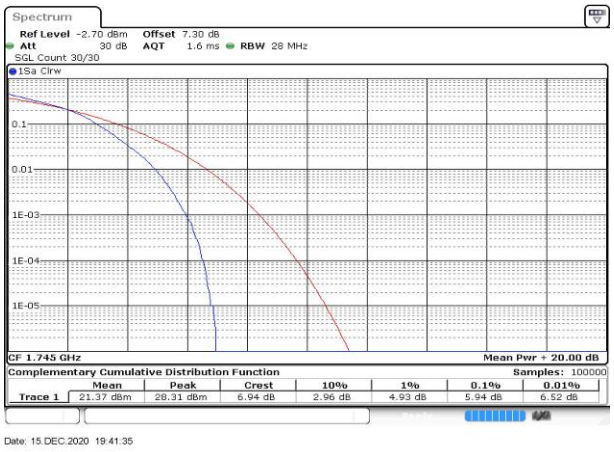

Fig.105

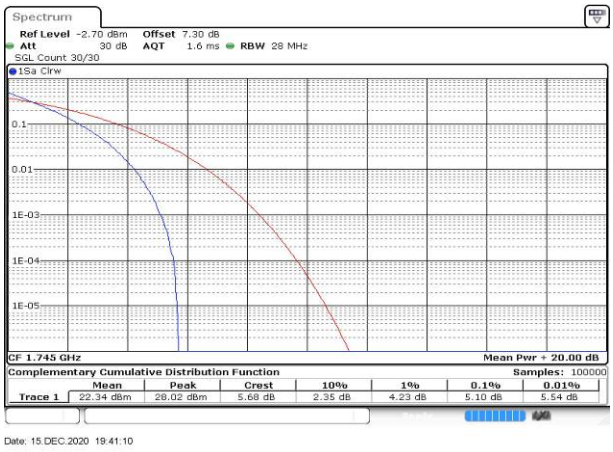

Fig.106

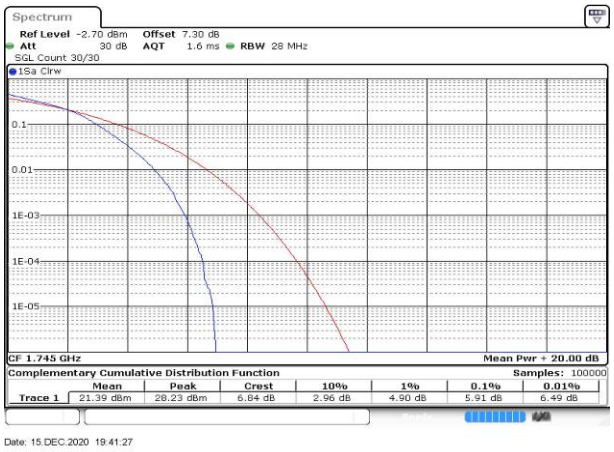

Fig.107

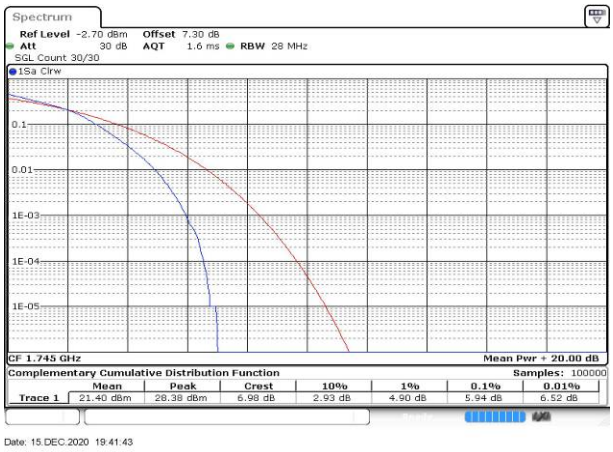

Fig.108

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1720	20050	20	1	0	Fig.1
	1732.5	20175		1	0	Fig.2
	1745	20300		1	0	Fig.3

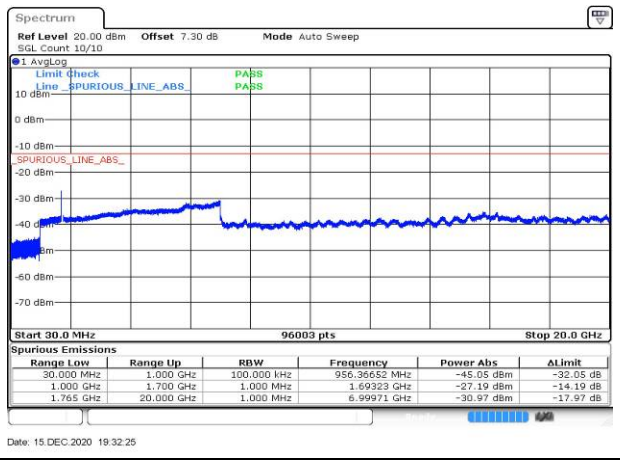

Fig.1

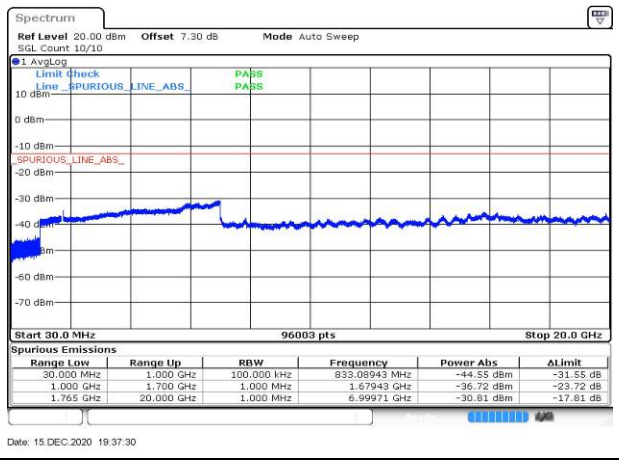

Fig.2

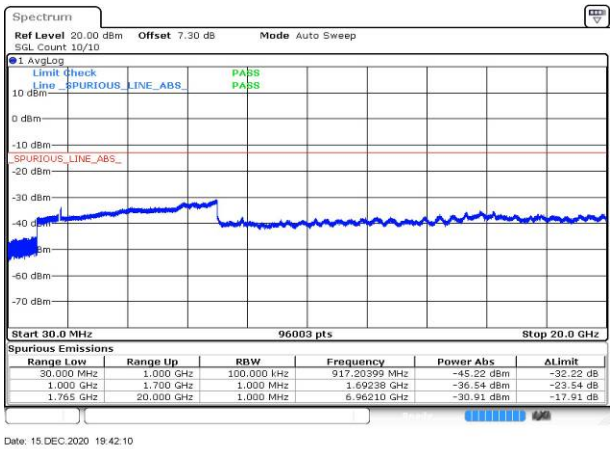

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
4	1710.7	19957	1.4	1	0	Fig.1
				6	0	Fig.2
	1754.3	20393		1	5	Fig.3
				6	0	Fig.4
	1711.5	19965	3	1	0	Fig.5
				15	0	Fig.6
	1753.5	20385		1	14	Fig.7
				15	0	Fig.8
	1712.5	19975	5	1	0	Fig.9
				25	0	Fig.10
	1752.5	20375		1	24	Fig.11
				25	0	Fig.12
	1715	20000	10	1	0	Fig.13
				50	0	Fig.14
	1750	20350		1	49	Fig.15
				50	0	Fig.16
	1717.5	20025	15	1	0	Fig.17
				75	0	Fig.18
	1747.5	20325		1	74	Fig.19
				75	0	Fig.20
	1720	20050	20	1	0	Fig.21
				100	0	Fig.22
	1745	20300		1	99	Fig.23
				100	0	Fig.24

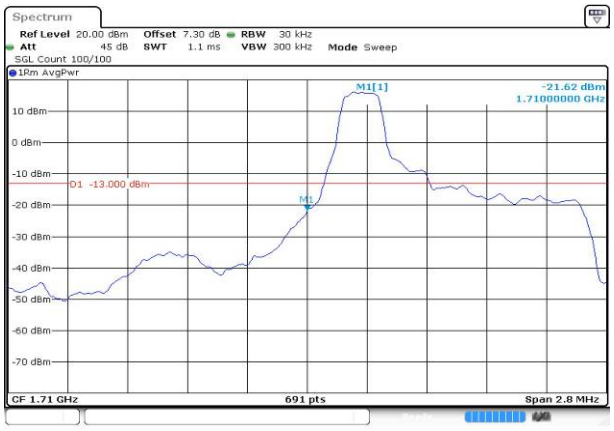

Fig.1

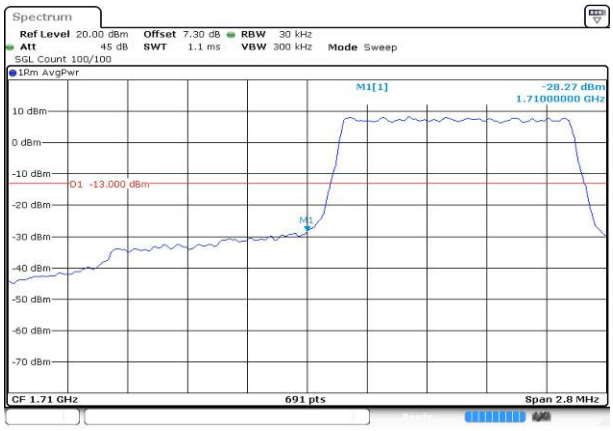

Fig.2

Fig.3

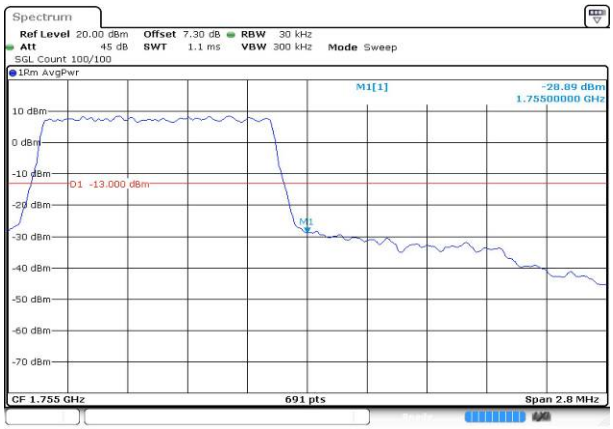

Fig.4

Fig.5

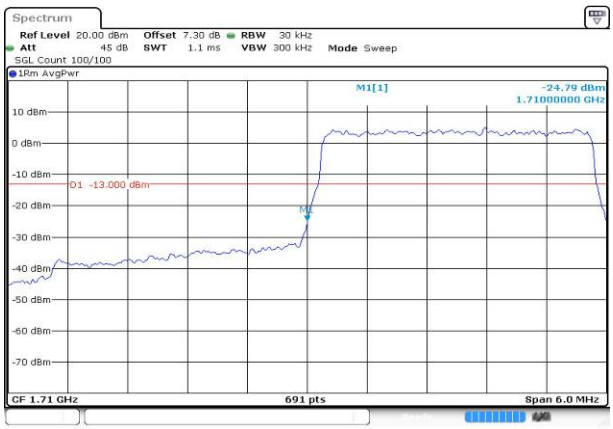

Fig.6

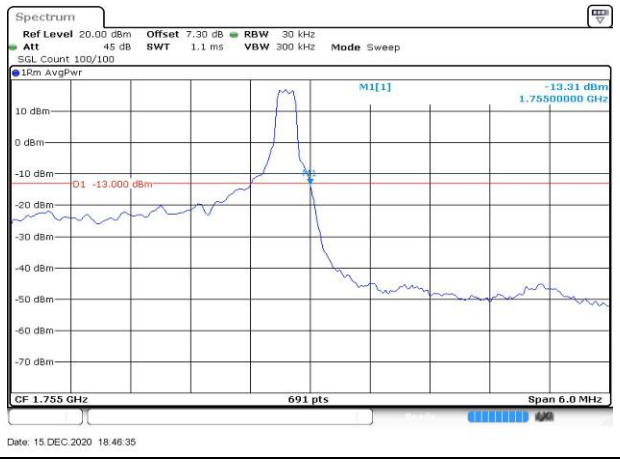

Fig.7

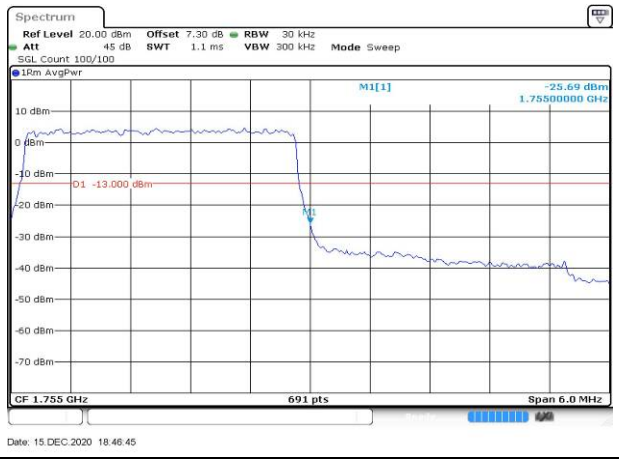

Fig.8

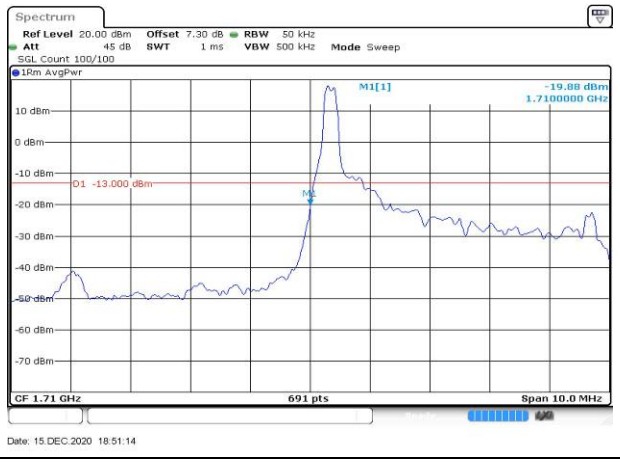

Fig.9

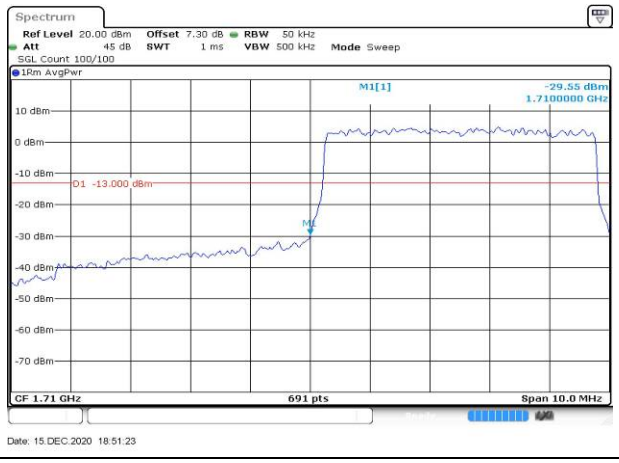

Fig.10

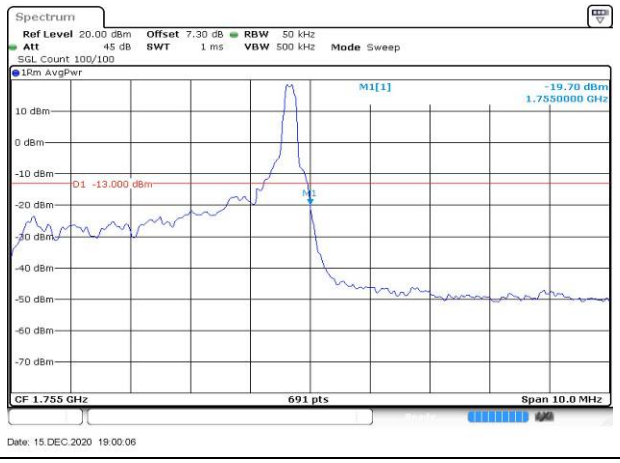

Fig.11

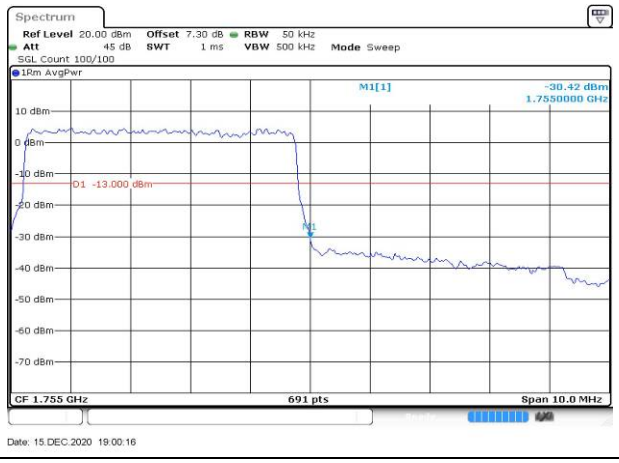

Fig.12

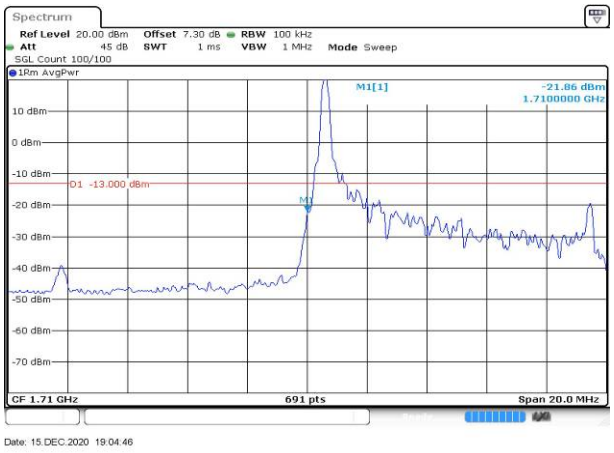

Fig.13

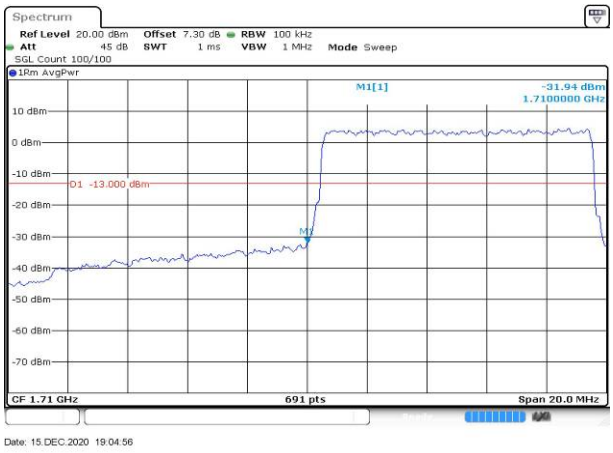

Fig.14

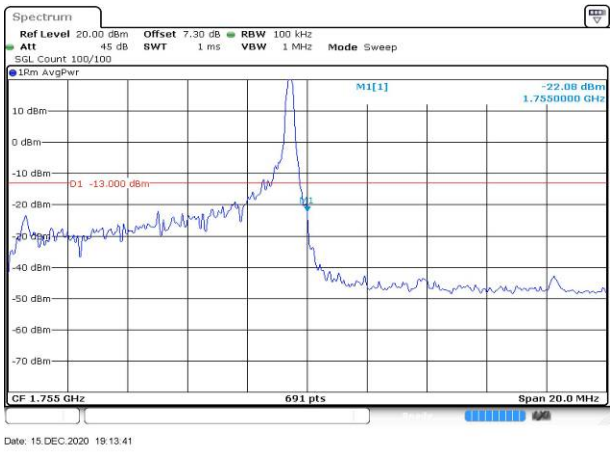

Fig.15

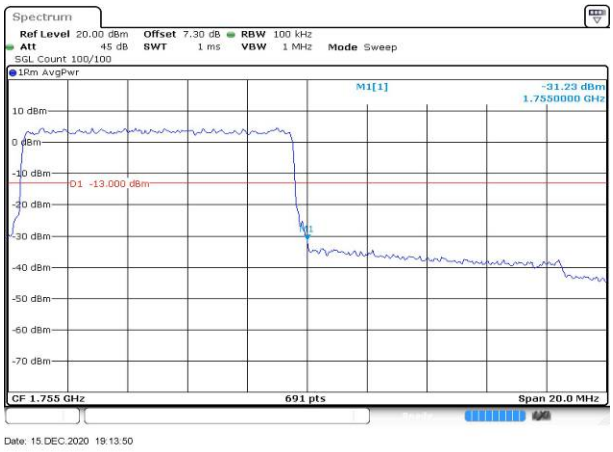

Fig.16

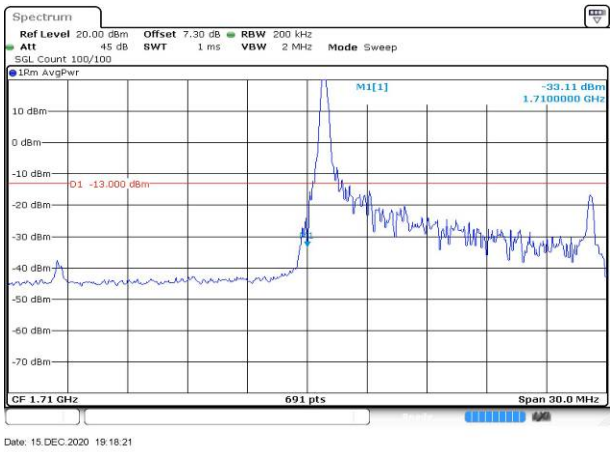

Fig.17

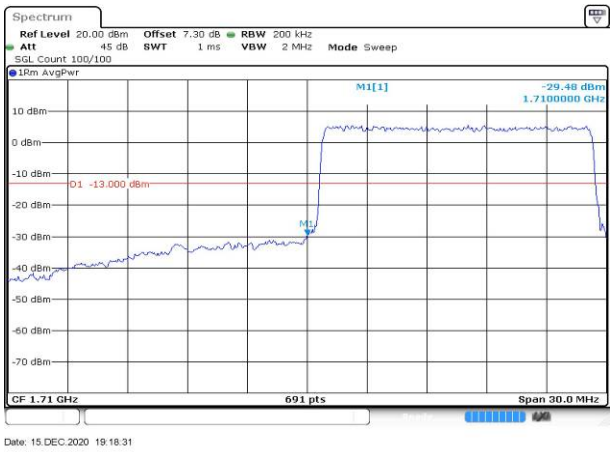

Fig.18

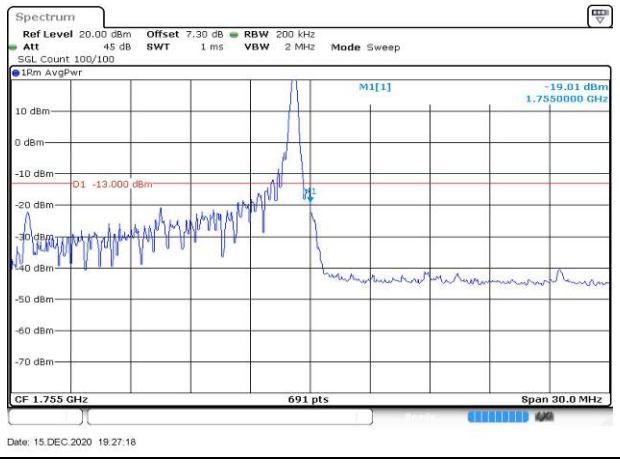

Fig.19

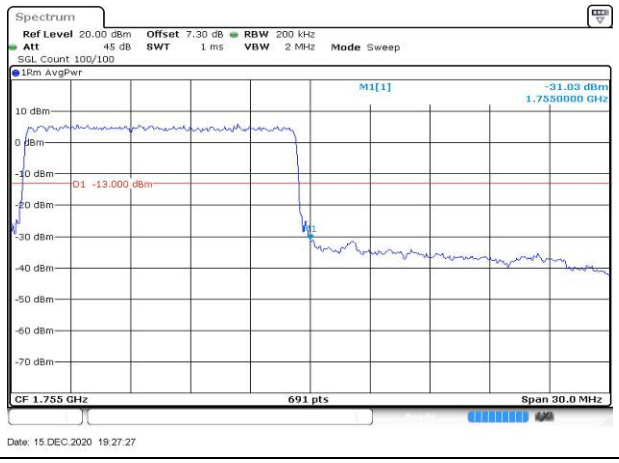

Fig.20

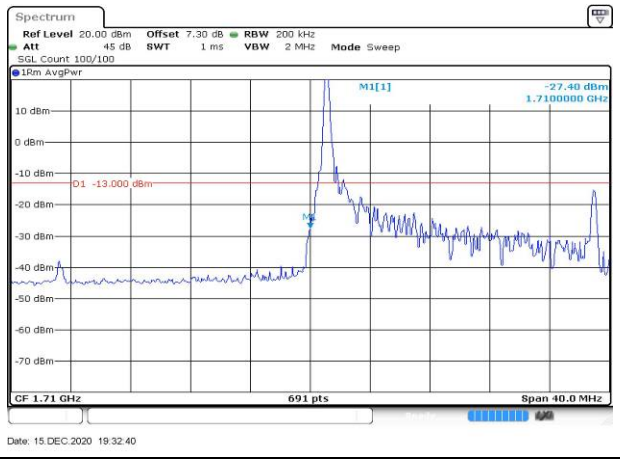

Fig.21

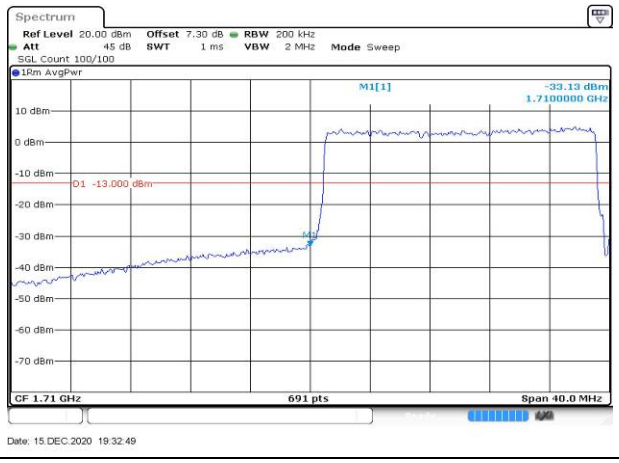

Fig.22

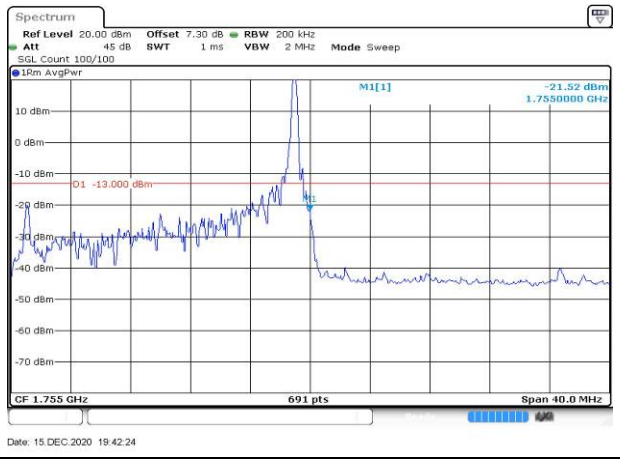

Fig.23

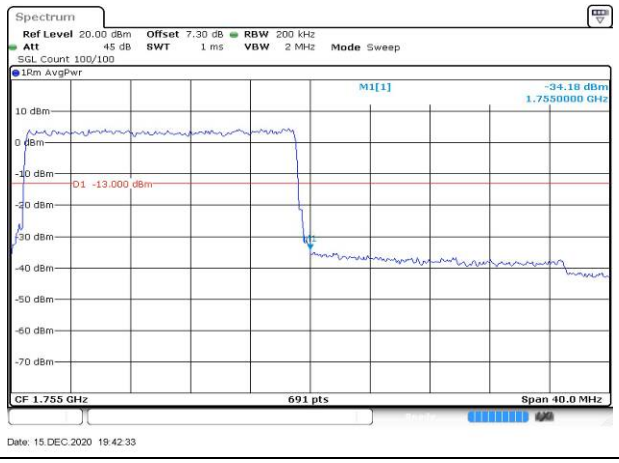

Fig.24

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band4 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.013	-0.016	-0.023	-0.022	-0.019	-0.020
0	NV	-0.026	-0.009	-0.024	-0.012	-0.020	-0.003
+10	NV	-0.015	-0.016	-0.014	-0.013	-0.027	0.001
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	-0.003	-0.021	-0.007	-0.020	-0.006	0.001
+40	NV	-0.010	-0.026	-0.011	-0.006	-0.015	0.002
+50	NV	-0.004	-0.008	-0.011	-0.008	0.002	-0.007
+55	NV	-0.003	-0.006	-0.010	-0.009	0.006	-0.004
+20	LV	-0.015	-0.021	-0.003	-0.011	-0.021	-0.014
+20	HV	-0.002	-0.016	-0.011	0.001	-0.005	-0.022

Temperature(°C)	Voltage	Test Result (ppm) Band4 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.017	-0.019	-0.005	-0.020	-0.021	-0.019
0	NV	-0.006	-0.012	-0.027	-0.003	0.000	-0.012
+10	NV	-0.009	-0.017	-0.007	0.001	0.000	-0.022
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	-0.022	-0.022	-0.026	-0.001	-0.019	-0.011
+40	NV	-0.017	-0.017	0.000	-0.010	-0.017	-0.008
+50	NV	-0.009	-0.022	-0.022	-0.019	-0.016	-0.022
+55	NV	-0.0011	-0.018	-0.011	-0.014	-0.015	-0.018
+20	LV	0.007	-0.008	-0.016	-0.018	0.001	0.003
+20	HV	-0.016	-0.011	-0.021	-0.007	-0.014	-0.025

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	1710.7	19957	1.4	1	0	24.12	22.92	0.196
				1	3	23.99	22.79	0.190
				1	5	24.02	22.82	0.191
				3	0	24.15	22.95	0.197
				3	1	24.11	22.91	0.195
				3	3	24.10	22.90	0.195
				6	0	22.89	21.69	0.148
	1732.5	20175		1	0	24.24	23.04	0.201
				1	3	24.05	22.85	0.193
				1	5	24.14	22.94	0.197
				3	0	24.27	23.07	0.203
				3	1	24.19	22.99	0.199
				3	3	24.16	22.96	0.198
				6	0	22.95	21.75	0.150
	1754.3	20393		1	0	24.19	22.99	0.199
				1	3	24.01	22.81	0.191
				1	5	24.05	22.85	0.193
				3	0	24.16	22.96	0.198
				3	1	24.14	22.94	0.197
				3	3	24.17	22.97	0.198
				6	0	22.96	21.76	0.150
16QAM	1710.7	19957		1	0	23.63	22.43	0.175
				1	3	23.71	22.51	0.178
				1	5	23.70	22.50	0.178
				3	0	23.12	21.92	0.156
				3	1	23.09	21.89	0.155
				3	3	23.18	21.98	0.158
				6	0	22.28	21.08	0.128
	1732.5	20175		1	0	23.60	22.40	0.174
				1	3	23.61	22.41	0.174
				1	5	23.62	22.42	0.175
				3	0	22.81	21.61	0.145
				3	1	22.86	21.66	0.147
				3	3	22.86	21.66	0.147
				6	0	22.01	20.81	0.121
	1754.3	20393		1	0	23.84	22.64	0.184
				1	3	23.78	22.58	0.181
				1	5	23.83	22.63	0.183
				3	0	23.21	22.01	0.159
				3	1	22.91	21.71	0.148
				3	3	22.89	21.69	0.148
				6	0	22.31	21.11	0.129

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1710.7	19957	1.4	1	0	22.33	21.13	0.130
				1	3	22.28	21.08	0.128
				1	5	22.33	21.13	0.130
				3	0	22.33	21.13	0.130
				3	1	22.23	21.03	0.127
				3	3	22.33	21.13	0.130
				6	0	22.34	21.14	0.130
	1732.5	20175		1	0	22.00	20.80	0.120
				1	3	22.12	20.92	0.124
				1	5	22.03	20.83	0.121
				3	0	22.10	20.90	0.123
				3	1	22.10	20.90	0.123
				3	3	22.09	20.89	0.123
				6	0	22.09	20.89	0.123
	1754.3	20393		1	0	22.30	21.10	0.129
				1	3	22.29	21.09	0.129
				1	5	22.29	21.09	0.129
				3	0	22.35	21.15	0.130
				3	1	22.32	21.12	0.129
				3	3	22.35	21.15	0.130
				6	0	22.34	21.14	0.130

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1711.5	19965	3	1	0	23.98	22.78	0.190
				1	8	23.90	22.70	0.186
				1	14	23.85	22.65	0.184
				8	0	23.01	21.81	0.152
				8	4	22.93	21.73	0.149
				8	7	22.93	21.73	0.149
				15	0	22.97	21.77	0.150
	1732.5	20175		1	0	23.86	22.66	0.185
				1	8	23.89	22.69	0.186
				1	14	23.88	22.68	0.185
				8	0	22.91	21.71	0.148
				8	4	22.94	21.74	0.149
				8	7	22.94	21.74	0.149
				15	0	22.88	21.68	0.147
	1753.5	20385		1	0	24.36	23.16	0.207
				1	8	24.40	23.20	0.209
				1	14	24.42	23.22	0.210
				8	0	23.18	21.98	0.158
				8	4	23.20	22.00	0.158
				8	7	23.20	22.00	0.158
				15	0	23.24	22.04	0.160
16QAM	1711.5	19965		1	0	23.45	22.25	0.168
				1	8	23.40	22.20	0.166
				1	14	23.39	22.19	0.166
				8	0	22.31	21.11	0.129
				8	4	22.35	21.15	0.130
				8	7	22.35	21.15	0.130
				15	0	22.07	20.87	0.122
	1732.5	20175		1	0	23.81	22.61	0.182
				1	8	23.68	22.48	0.177
				1	14	23.79	22.59	0.182
				8	0	22.08	20.88	0.122
				8	4	22.20	21.00	0.126
				8	7	22.20	21.00	0.126
				15	0	21.95	20.75	0.119
	1753.5	20385		1	0	23.36	22.16	0.164
				1	8	23.36	22.16	0.164
				1	14	23.36	22.16	0.164
				8	0	22.47	21.27	0.134
				8	4	22.51	21.31	0.135
				8	7	22.51	21.31	0.135
				15	0	22.36	21.16	0.131

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1711.5	19965	3	1	0	22.07	20.87	0.122
				1	8	22.07	20.87	0.122
				1	14	22.07	20.87	0.122
				8	0	22.06	20.86	0.122
				8	4	22.06	20.86	0.122
				8	7	22.05	20.85	0.122
				15	0	22.06	20.86	0.122
	1732.5	20175		1	0	22.08	20.88	0.122
				1	8	22.08	20.88	0.122
				1	14	22.08	20.88	0.122
				8	0	22.08	20.88	0.122
				8	4	22.08	20.88	0.122
				8	7	22.08	20.88	0.122
				15	0	22.08	20.88	0.122
	1753.5	20385		1	0	22.35	21.15	0.130
				1	8	22.36	21.16	0.131
				1	14	22.36	21.16	0.131
				8	0	22.32	21.12	0.129
				8	4	22.27	21.07	0.128
				8	7	22.27	21.07	0.128
				15	0	22.28	21.08	0.128

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1712.5	19975	5	1	0	24.05	22.85	0.193
				1	12	23.94	22.74	0.188
				1	24	24.03	22.83	0.192
				12	0	23.05	21.85	0.153
				12	7	22.96	21.76	0.150
				12	13	22.95	21.75	0.150
				25	0	23.00	21.80	0.151
	1732.5	20175		1	0	23.98	22.78	0.190
				1	12	24.05	22.85	0.193
				1	24	24.05	22.85	0.193
				12	0	22.97	21.77	0.150
				12	7	22.96	21.76	0.150
				12	13	22.96	21.76	0.150
				25	0	23.01	21.81	0.152
	1752.5	20375		1	0	23.96	22.76	0.189
				1	12	24.04	22.84	0.192
				1	24	24.07	22.87	0.194
				12	0	23.13	21.93	0.156
				12	7	23.09	21.89	0.155
				12	13	23.09	21.89	0.155
				25	0	23.17	21.97	0.157
16QAM	1712.5	19975		1	0	22.34	21.14	0.130
				1	12	22.27	21.07	0.128
				1	24	22.27	21.07	0.128
				12	0	22.05	20.85	0.122
				12	7	22.07	20.87	0.122
				12	13	22.12	20.92	0.124
				25	0	22.24	21.04	0.127
	1732.5	20175		1	0	23.05	21.85	0.153
				1	12	23.13	21.93	0.156
				1	24	22.98	21.78	0.151
				12	0	22.03	20.83	0.121
				12	7	22.05	20.85	0.122
				12	13	22.05	20.85	0.122
				25	0	22.02	20.82	0.121
	1752.5	20375		1	0	22.71	21.51	0.142
				1	12	22.78	21.58	0.144
				1	24	22.74	21.54	0.143
				12	0	22.03	20.83	0.121
				12	7	22.10	20.90	0.123
				12	13	22.10	20.90	0.123
				25	0	22.12	20.92	0.124

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1712.5	19975	5	1	0	22.18	20.98	0.125
				1	12	22.24	21.04	0.127
				1	24	22.24	21.04	0.127
				12	0	22.19	20.99	0.126
				12	7	22.24	21.04	0.127
				12	13	22.24	21.04	0.127
				25	0	22.21	21.01	0.126
	1732.5	20175		1	0	22.02	20.82	0.121
				1	12	22.02	20.82	0.121
				1	24	22.03	20.83	0.121
				12	0	22.02	20.82	0.121
				12	7	21.99	20.79	0.120
				12	13	21.92	20.72	0.118
				25	0	22.00	20.80	0.120
	1752.5	20375		1	0	22.12	20.92	0.124
				1	12	22.13	20.93	0.124
				1	24	22.13	20.93	0.124
				12	0	22.13	20.93	0.124
				12	7	22.13	20.93	0.124
				12	13	22.14	20.94	0.124
				25	0	22.38	21.18	0.131

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1715	20000	10	1	0	24.02	22.82	0.191
				1	25	23.86	22.66	0.185
				1	49	23.84	22.64	0.184
				25	0	22.95	21.75	0.150
				25	12	22.87	21.67	0.147
				25	25	22.86	21.66	0.147
				50	0	23.07	21.87	0.154
	1732.5	20175		1	0	23.90	22.70	0.186
				1	25	24.02	22.82	0.191
				1	49	24.02	22.82	0.191
				25	0	22.89	21.69	0.148
				25	12	22.86	21.66	0.147
				25	25	22.86	21.66	0.147
				50	0	22.91	21.71	0.148
	1750	20350		1	0	24.26	23.06	0.202
				1	25	24.35	23.15	0.207
				1	49	24.33	23.13	0.206
				25	0	23.12	21.92	0.156
				25	12	23.09	21.89	0.155
				25	25	23.09	21.89	0.155
				50	0	23.11	21.91	0.155
16QAM	1715	20000		1	0	23.22	22.02	0.159
				1	25	23.17	21.97	0.157
				1	49	23.16	21.96	0.157
				25	0	22.11	20.91	0.123
				25	12	22.07	20.87	0.122
				25	25	22.07	20.87	0.122
				50	0	22.15	20.95	0.124
	1732.5	20175		1	0	23.02	21.82	0.152
				1	25	23.08	21.88	0.154
				1	49	23.05	21.85	0.153
				25	0	22.17	20.97	0.125
				25	12	22.17	20.97	0.125
				25	25	22.15	20.95	0.124
				50	0	22.07	20.87	0.122
	1750	20350		1	0	23.06	21.86	0.153
				1	25	23.00	21.80	0.151
				1	49	23.03	21.83	0.152
				25	0	22.43	21.23	0.133
				25	12	22.41	21.21	0.132
				25	25	22.41	21.21	0.132
				50	0	22.36	21.16	0.131

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1715	20000	10	1	0	22.16	20.96	0.125
				1	25	22.15	20.95	0.124
				1	49	22.16	20.96	0.125
				25	0	22.15	20.95	0.124
				25	12	22.15	20.95	0.124
				25	25	22.15	20.95	0.124
				50	0	22.15	20.95	0.124
	1732.5	20175		1	0	22.07	20.87	0.122
				1	25	22.07	20.87	0.122
				1	49	22.07	20.87	0.122
				25	0	22.07	20.87	0.122
				25	12	22.07	20.87	0.122
				25	25	22.07	20.87	0.122
				50	0	22.07	20.87	0.122
	1750	20350		1	0	22.36	21.16	0.131
				1	25	22.36	21.16	0.131
				1	49	22.36	21.16	0.131
				25	0	22.47	21.27	0.134
				25	12	22.19	20.99	0.126
				25	25	22.33	21.13	0.130
				50	0	22.37	21.17	0.131

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1717.5	20025	15	1	0	23.97	22.77	0.189
				1	37	23.75	22.55	0.180
				1	74	23.82	22.62	0.183
				36	0	23.07	21.87	0.154
				36	29	22.93	21.73	0.149
				36	30	22.93	21.73	0.149
				75	0	22.93	21.73	0.149
	1732.5	20175		1	0	24.03	22.83	0.192
				1	37	23.98	22.78	0.190
				1	74	23.99	22.79	0.190
				36	0	22.97	21.77	0.150
				36	29	22.93	21.73	0.149
				36	30	22.93	21.73	0.149
				75	0	22.95	21.75	0.150
	1747.5	20325		1	0	24.09	22.89	0.195
				1	37	24.19	22.99	0.199
				1	74	24.23	23.03	0.201
				36	0	23.13	21.93	0.156
				36	29	23.06	21.86	0.153
				36	30	23.06	21.86	0.153
				75	0	23.20	22.00	0.158
16QAM	1717.5	20025		1	0	23.47	22.27	0.169
				1	37	23.29	22.09	0.162
				1	74	23.33	22.13	0.163
				36	0	21.99	20.79	0.120
				36	29	21.95	20.75	0.119
				36	30	21.95	20.75	0.119
				75	0	22.07	20.87	0.122
	1732.5	20175		1	0	23.07	21.87	0.154
				1	37	23.12	21.92	0.156
				1	74	23.12	21.92	0.156
				36	0	22.13	20.93	0.124
				36	29	22.12	20.92	0.124
				36	30	22.12	20.92	0.124
				75	0	22.03	20.83	0.121
	1747.5	20325		1	0	23.48	22.28	0.169
				1	37	23.56	22.36	0.172
				1	74	23.55	22.35	0.172
				36	0	22.19	20.99	0.126
				36	29	22.25	21.05	0.127
				36	30	22.26	21.06	0.128
				75	0	22.14	20.94	0.124

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1717.5	20025	15	1	0	21.92	20.72	0.118
				1	37	22.12	20.92	0.124
				1	74	22.12	20.92	0.124
				36	0	22.13	20.93	0.124
				36	29	22.12	20.92	0.124
				36	30	22.12	20.92	0.124
				75	0	22.12	20.92	0.124
	1732.5	20175		1	0	22.02	20.82	0.121
				1	37	22.02	20.82	0.121
				1	74	22.02	20.82	0.121
				36	0	22.03	20.83	0.121
				36	29	22.02	20.82	0.121
				36	30	22.02	20.82	0.121
				75	0	22.02	20.82	0.121
	1747.5	20325		1	0	22.14	20.94	0.124
				1	37	22.14	20.94	0.124
				1	74	22.15	20.95	0.124
				36	0	22.19	20.99	0.126
				36	29	22.31	21.11	0.129
				36	30	22.15	20.95	0.124
				75	0	22.27	21.07	0.128

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1720	20050	20	1	0	24.11	22.91	0.195
				1	49	24.22	23.02	0.200
				1	99	24.20	23.00	0.200
				50	0	22.95	21.75	0.150
				50	24	23.01	21.81	0.152
				50	50	23.05	21.85	0.153
				100	0	23.03	21.83	0.152
	1732.5	20175		1	0	24.07	22.87	0.194
				1	49	24.15	22.95	0.197
				1	99	24.15	22.95	0.197
				50	0	22.91	21.71	0.148
				50	24	22.99	21.79	0.151
				50	50	23.00	21.80	0.151
				100	0	23.02	21.82	0.152
	1745	20300		1	0	24.03	22.83	0.192
				1	49	24.55	23.35	0.216
				1	99	24.54	23.34	0.216
				50	0	23.04	21.84	0.153
				50	24	23.18	21.98	0.158
				50	50	23.18	21.98	0.158
				100	0	23.09	21.89	0.155
16QAM	1720	20050		1	0	23.70	22.50	0.178
				1	49	23.60	22.40	0.174
				1	99	23.55	22.35	0.172
				50	0	22.00	20.80	0.120
				50	24	22.00	20.80	0.120
				50	50	21.99	20.79	0.120
				100	0	22.18	20.98	0.125
	1732.5	20175		1	0	22.84	21.64	0.146
				1	49	22.97	21.77	0.150
				1	99	22.98	21.78	0.151
				50	0	22.00	20.80	0.120
				50	24	22.14	20.94	0.124
				50	50	22.15	20.95	0.124
				100	0	22.08	20.88	0.122
	1745	20300		1	0	23.67	22.47	0.177
				1	49	23.86	22.66	0.185
				1	99	23.87	22.67	0.185
				50	0	22.14	20.94	0.124
				50	24	22.40	21.20	0.132
				50	50	22.32	21.12	0.129
				100	0	22.06	20.86	0.122

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1720	20050	20	1	0	22.18	20.98	0.125
				1	49	22.16	20.96	0.125
				1	99	22.16	20.96	0.125
				50	0	22.15	20.95	0.124
				50	24	22.15	20.95	0.124
				50	50	22.15	20.95	0.124
				100	0	22.02	20.82	0.121
	1732.5	20175		1	0	22.07	20.87	0.122
				1	49	22.07	20.87	0.122
				1	99	22.06	20.86	0.122
				50	0	22.06	20.86	0.122
				50	24	22.06	20.86	0.122
				50	50	22.07	20.87	0.122
				100	0	22.07	20.87	0.122
	1745	20300		1	0	22.09	20.89	0.123
				1	49	22.24	21.04	0.127
				1	99	22.07	20.87	0.122
				50	0	22.07	20.87	0.122
				50	24	22.08	20.88	0.122
				50	50	22.09	20.89	0.123
				100	0	22.09	20.89	0.123