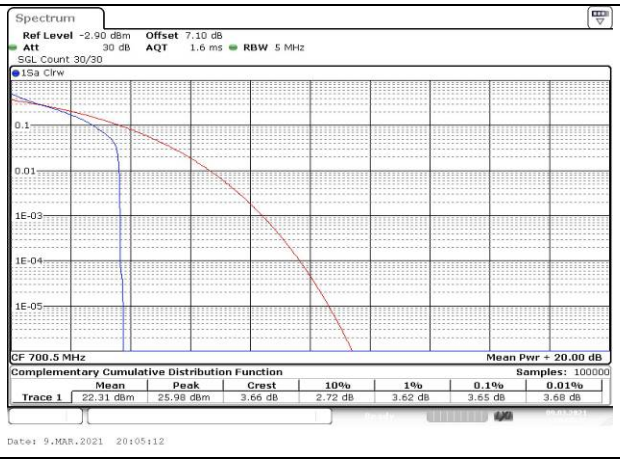

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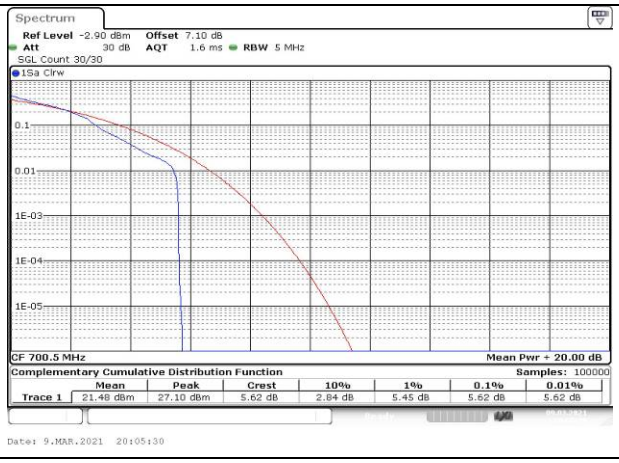

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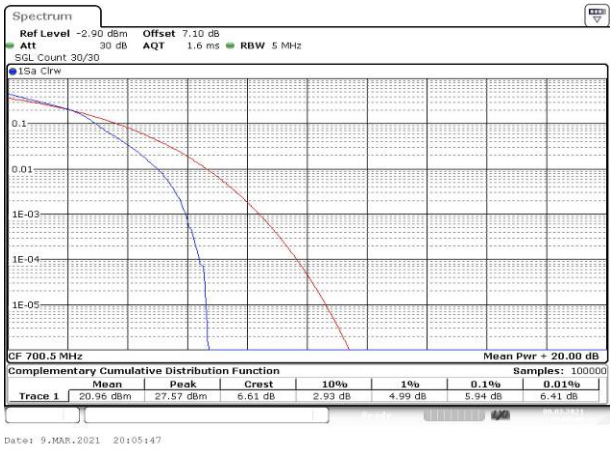

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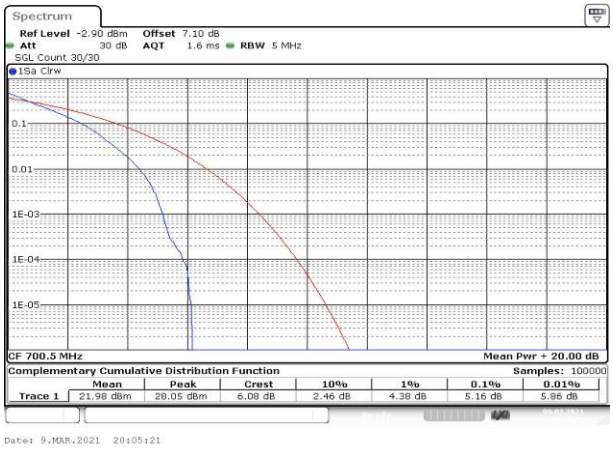

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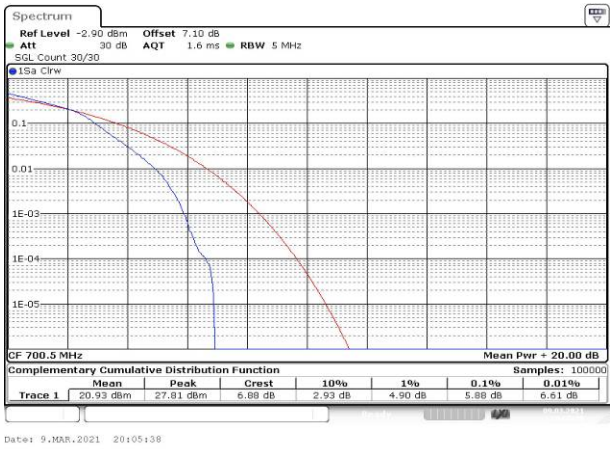

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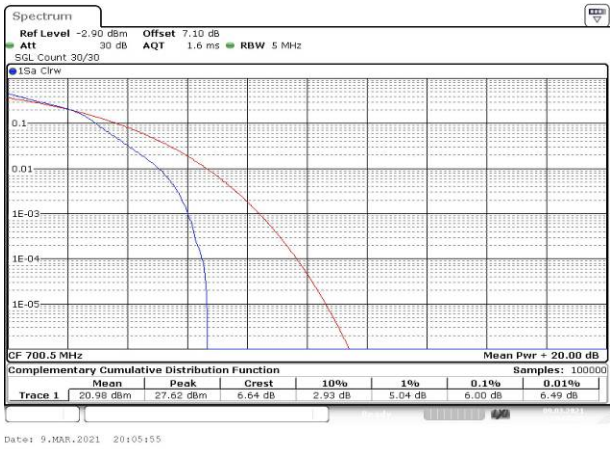

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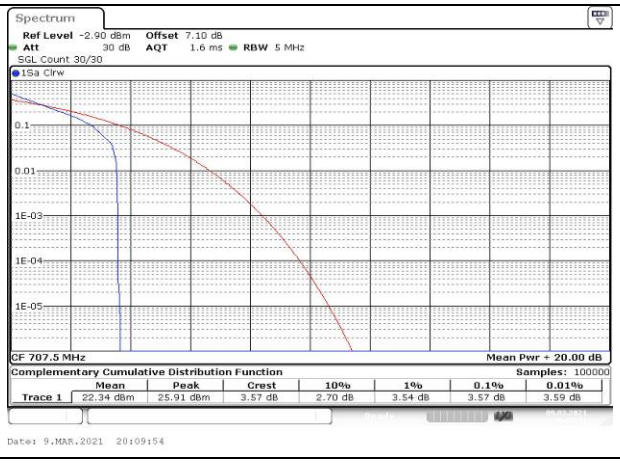

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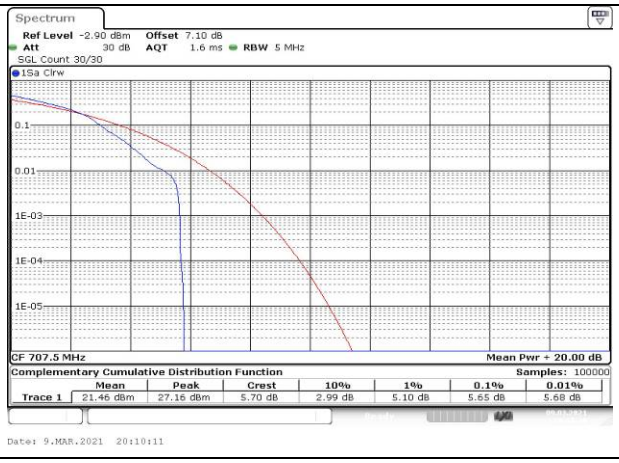

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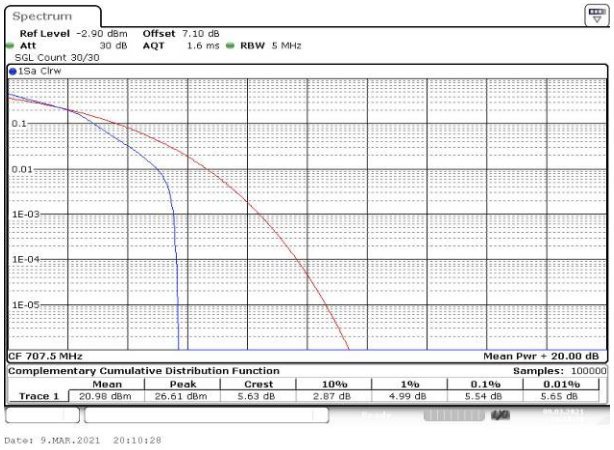

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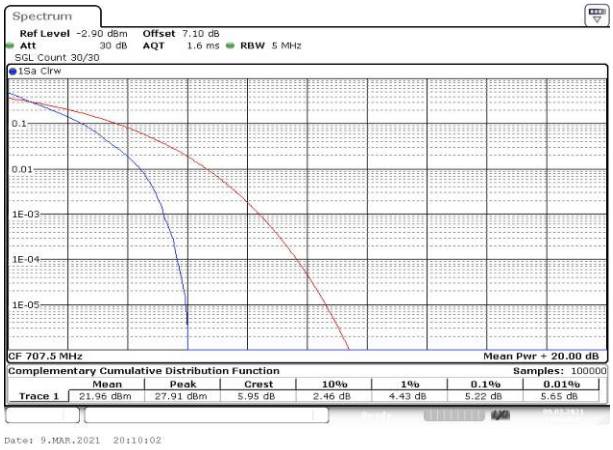

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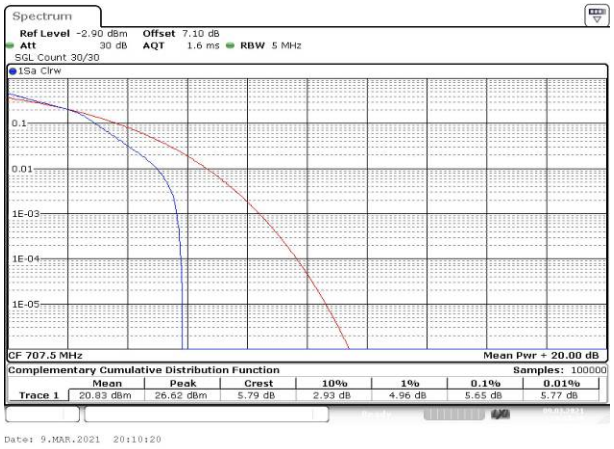

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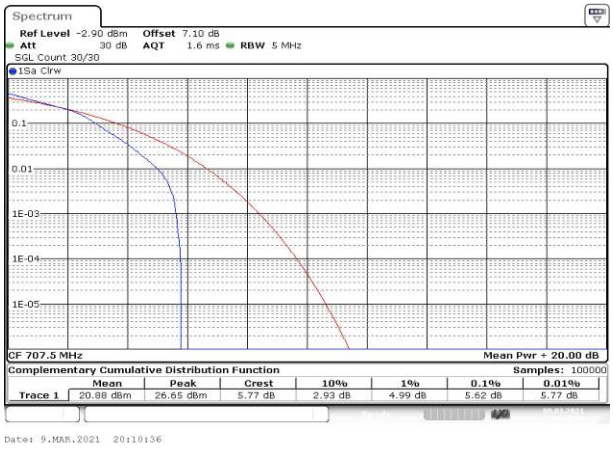

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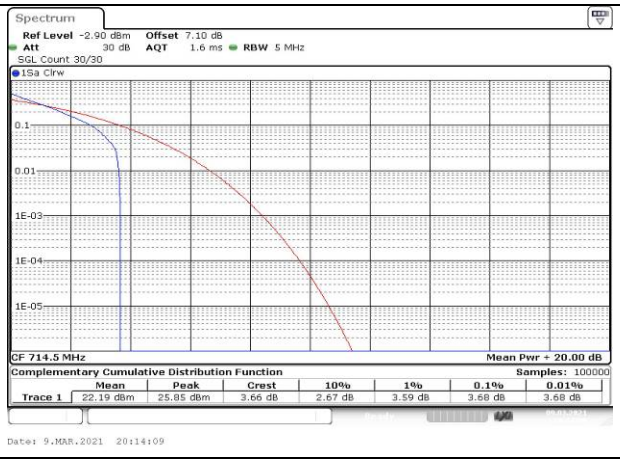

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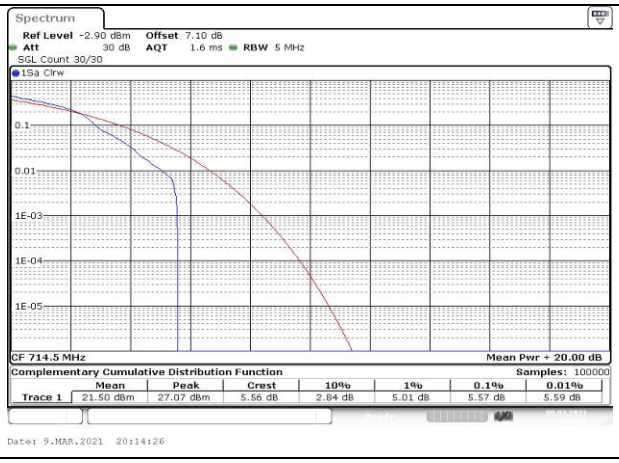

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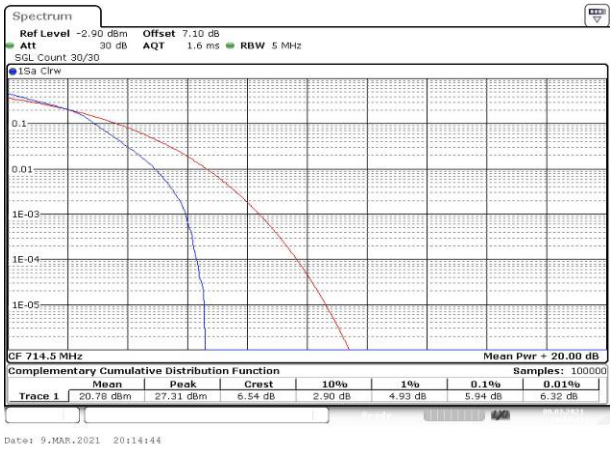

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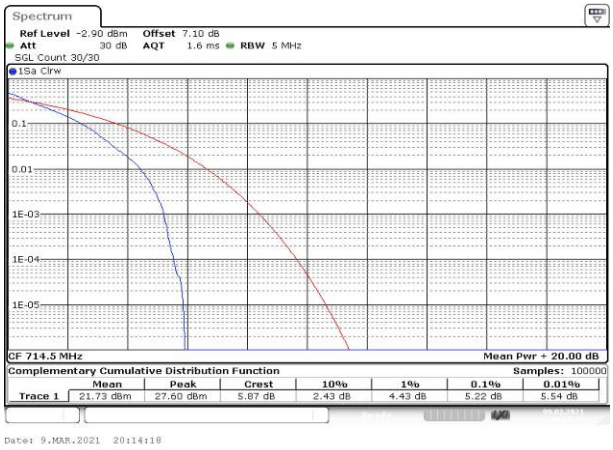

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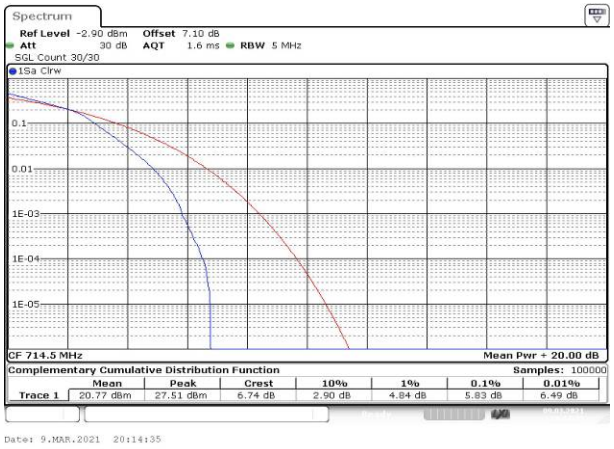

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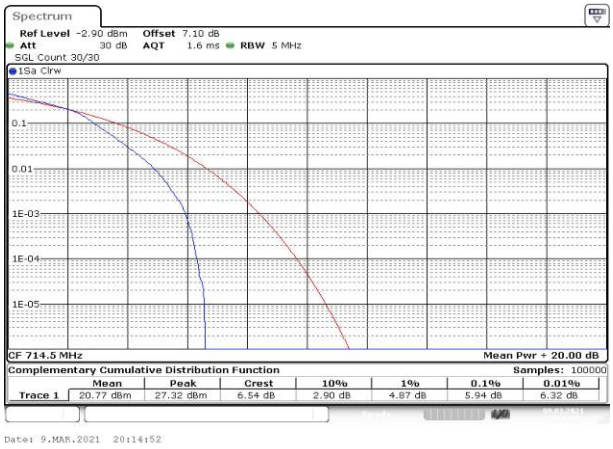

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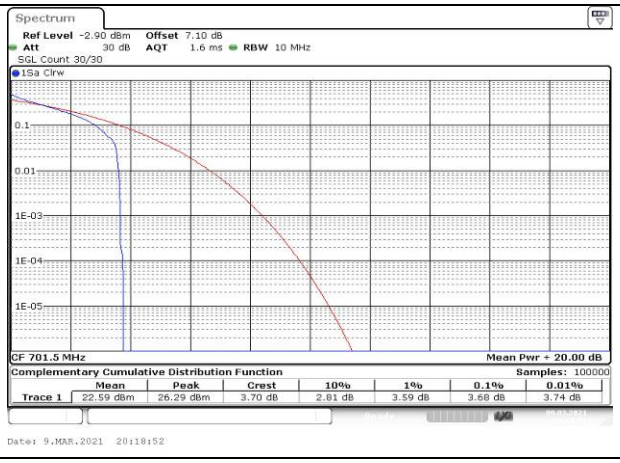

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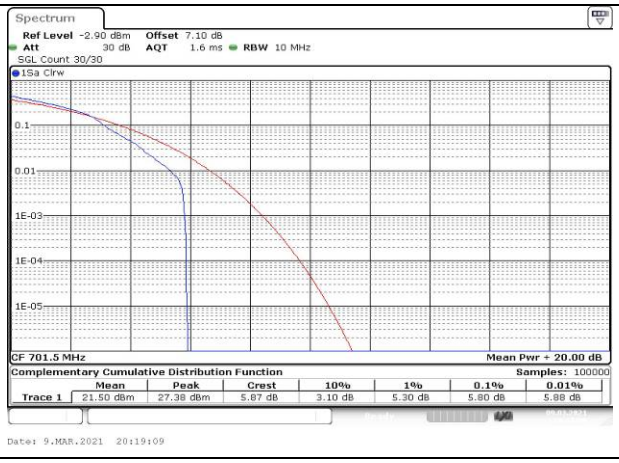

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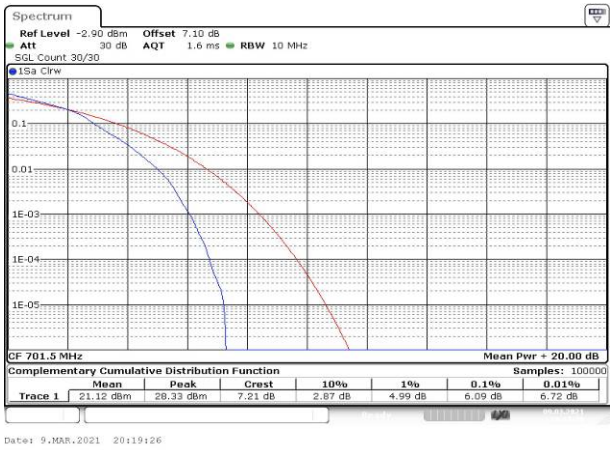

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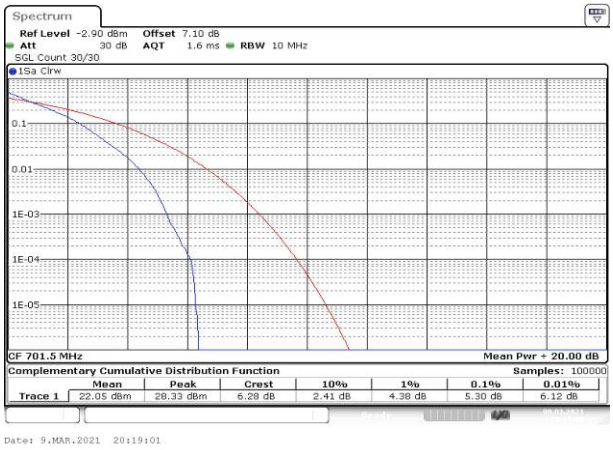

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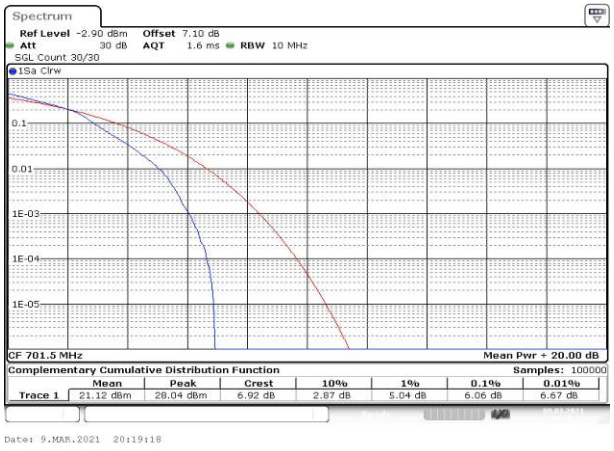

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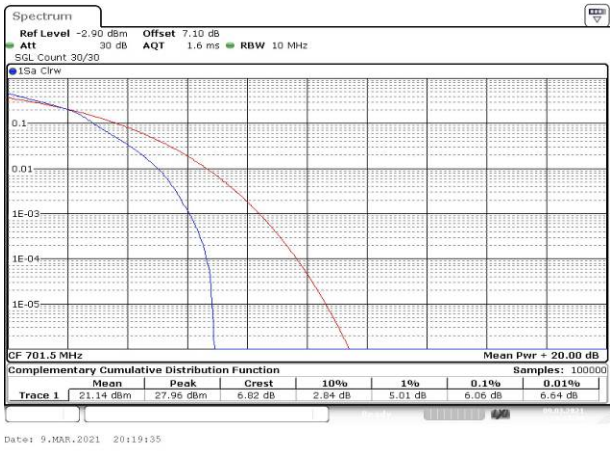

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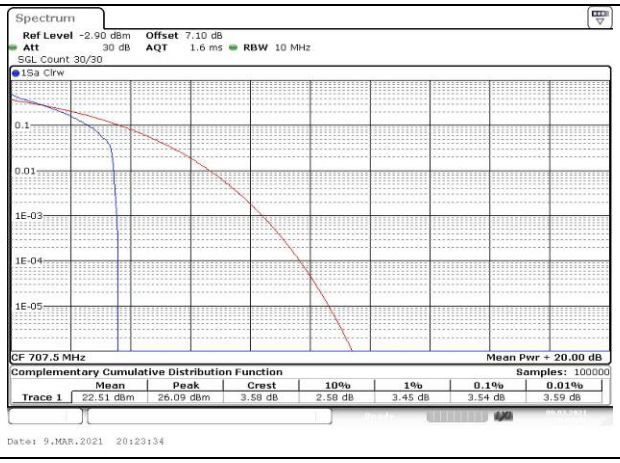

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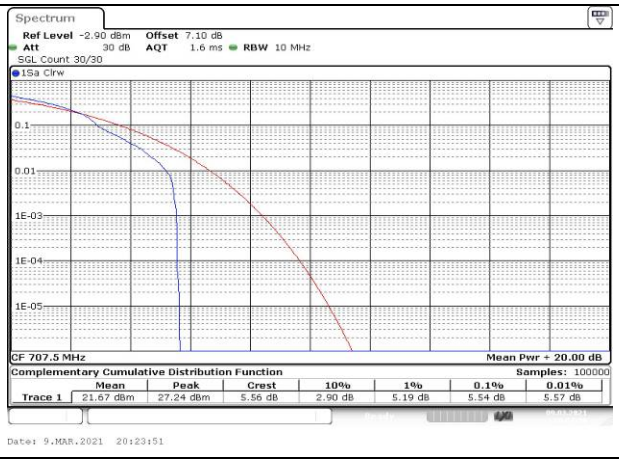

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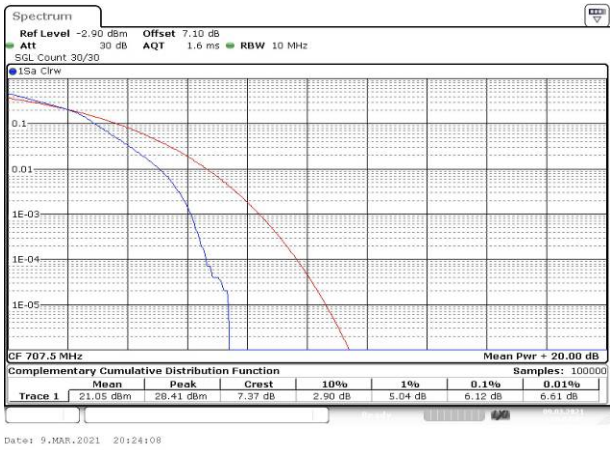

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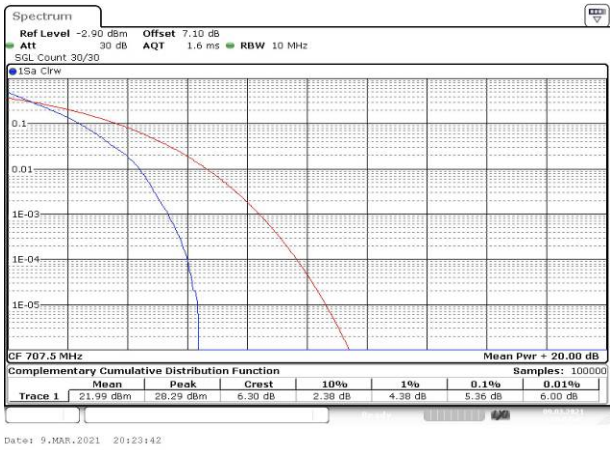

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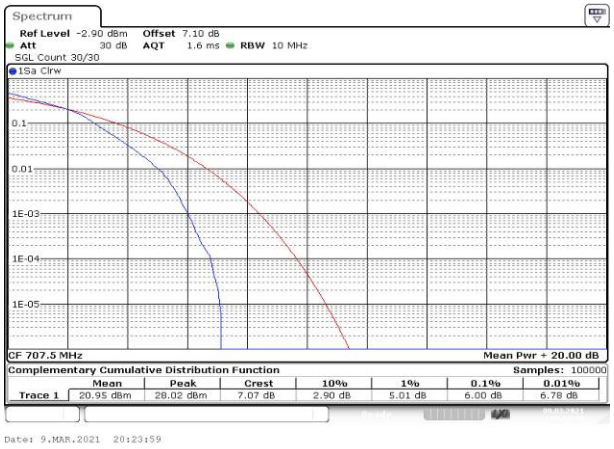

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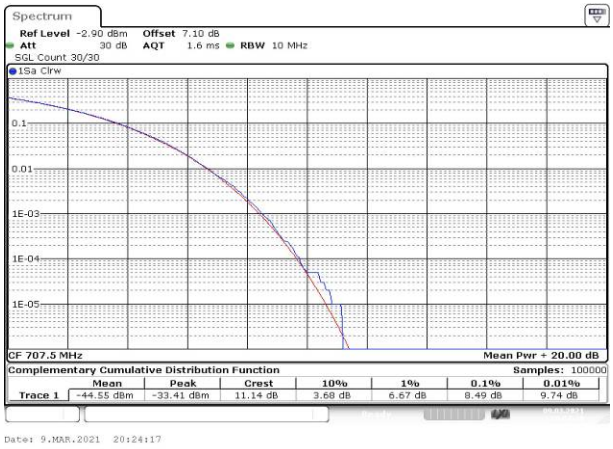

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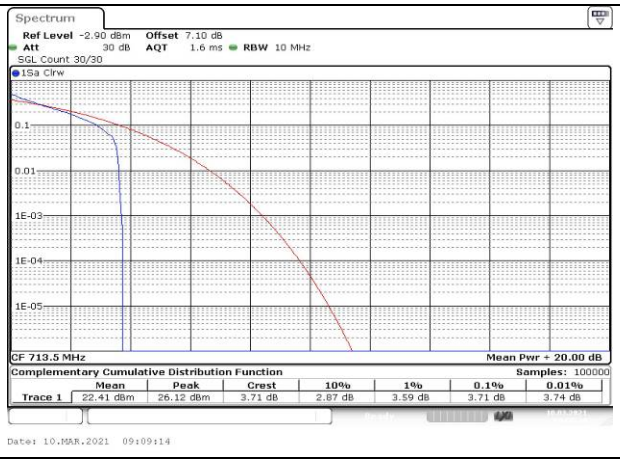

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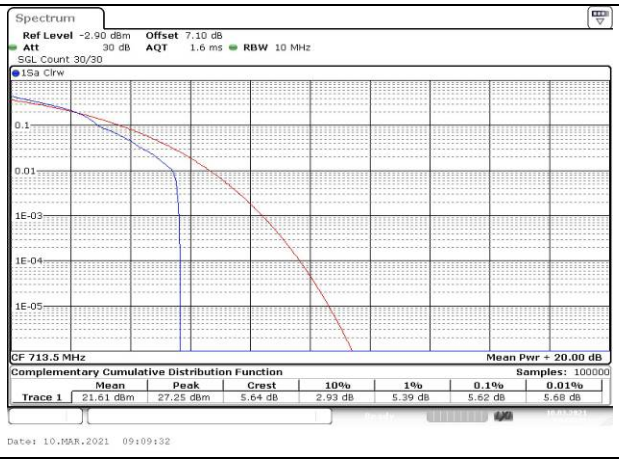

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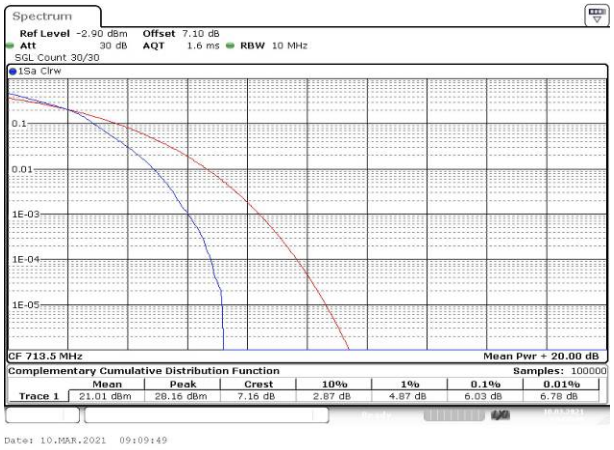

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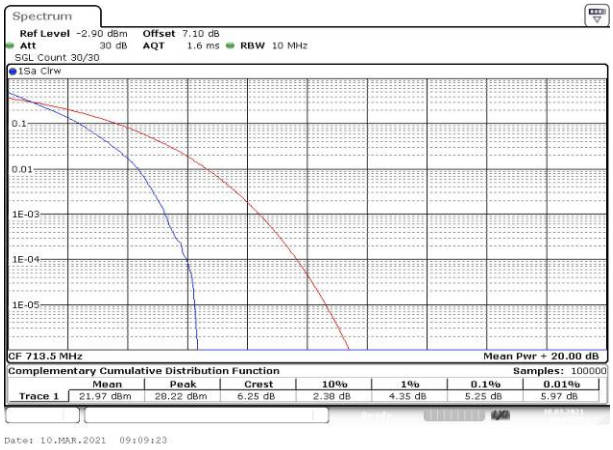

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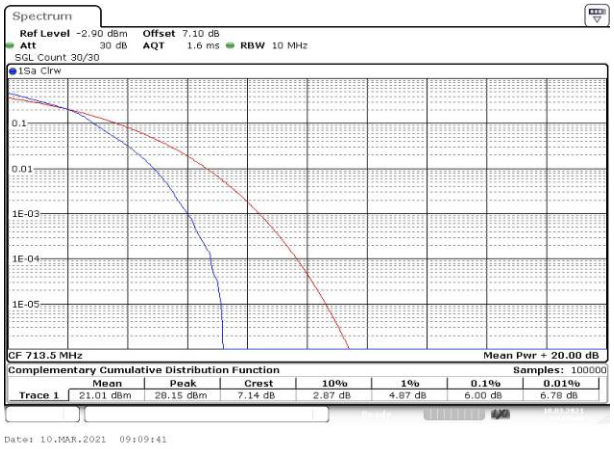

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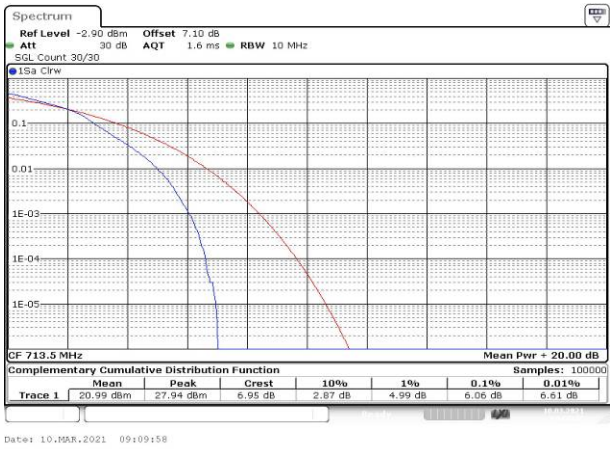

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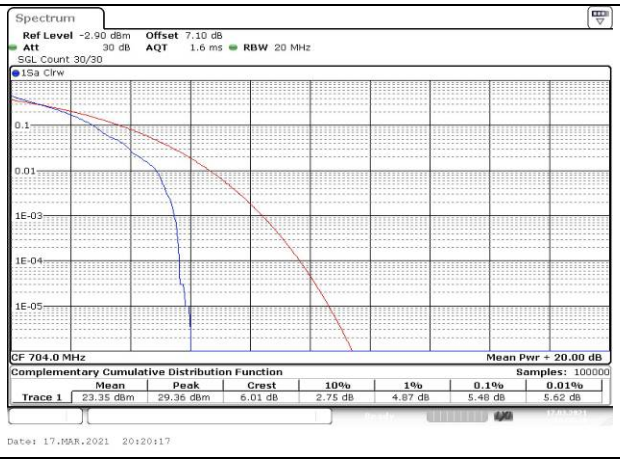

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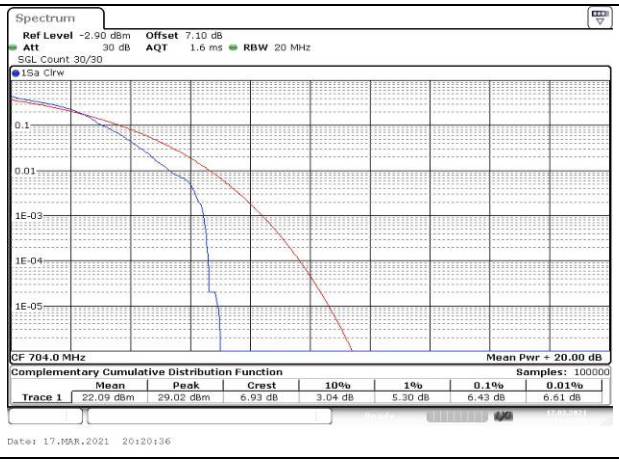
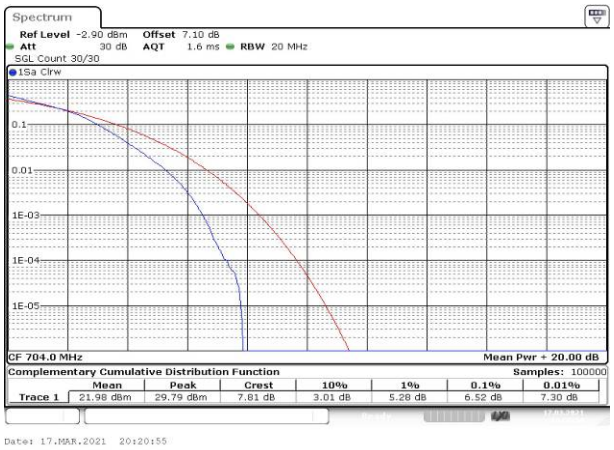


Fig.56



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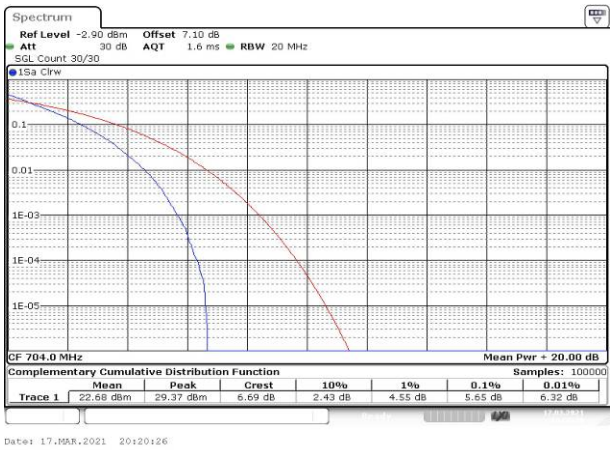
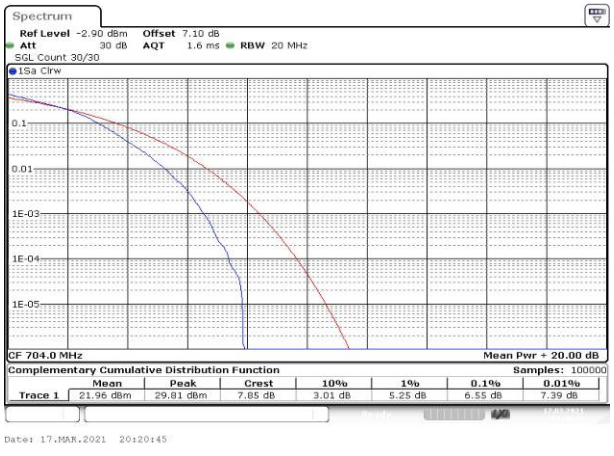


Fig.58



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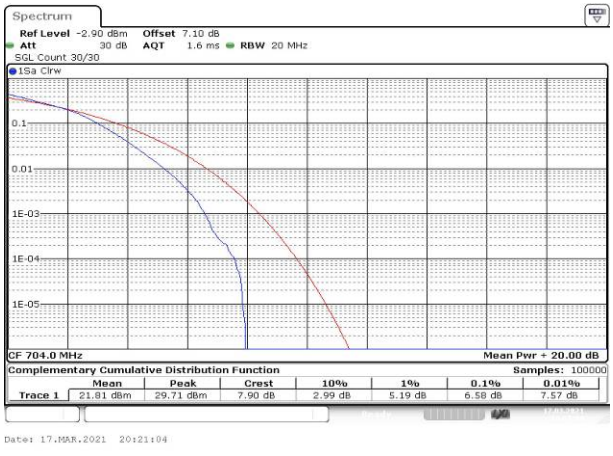


Fig.60

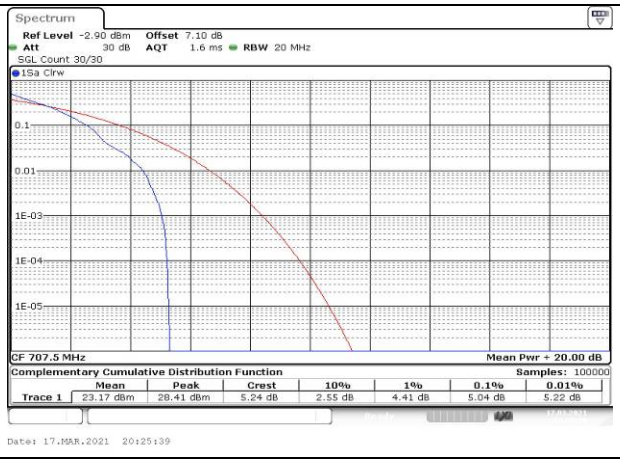


Fig.61

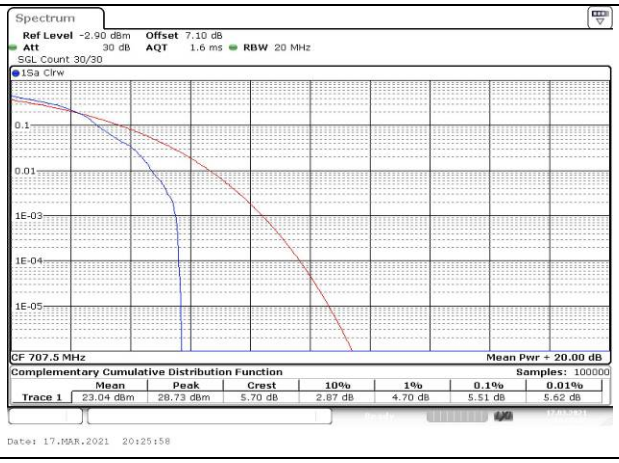


Fig.62

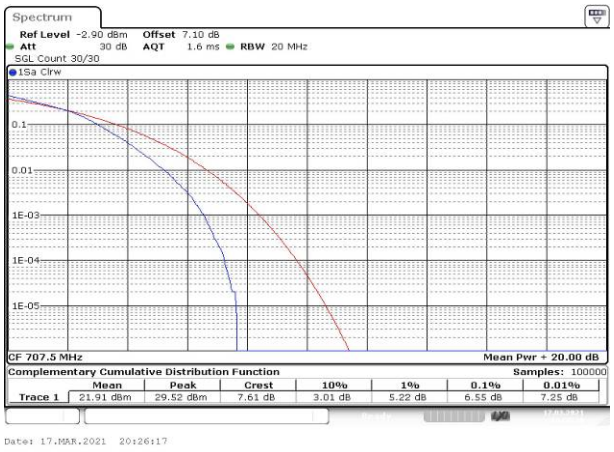


Fig.63

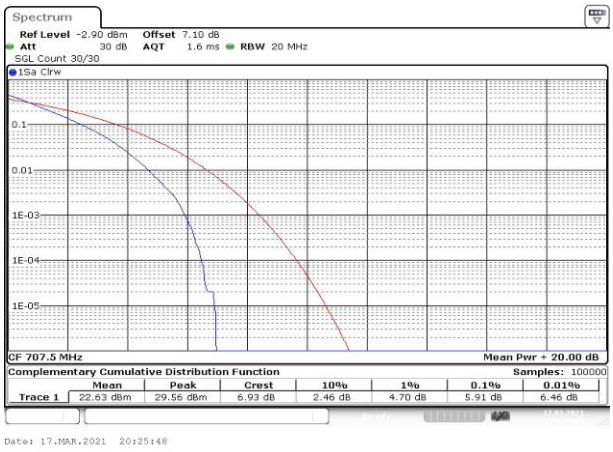


Fig.64

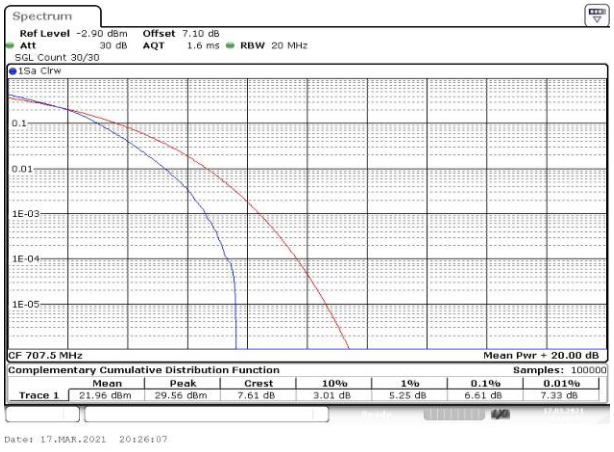
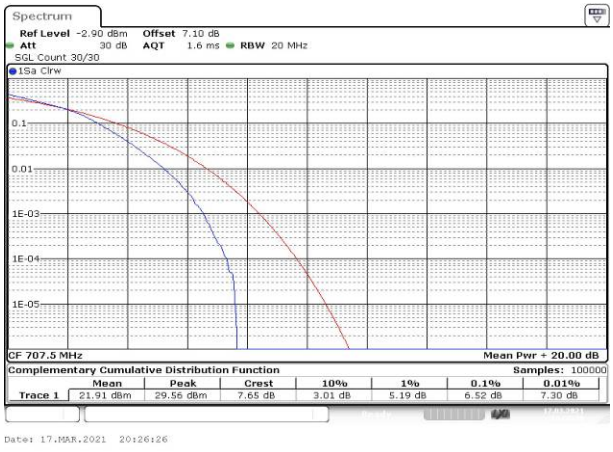


Fig.65



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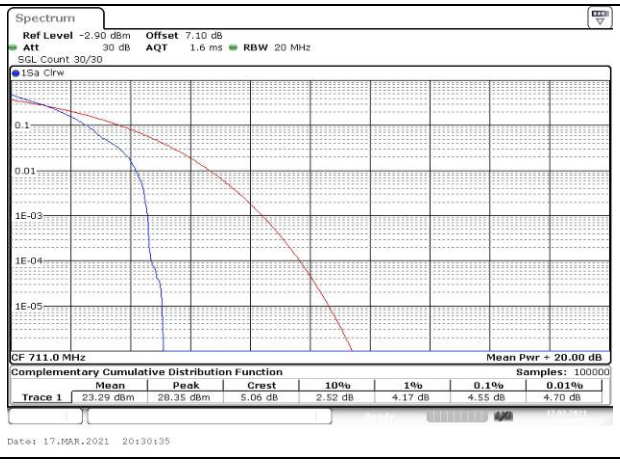

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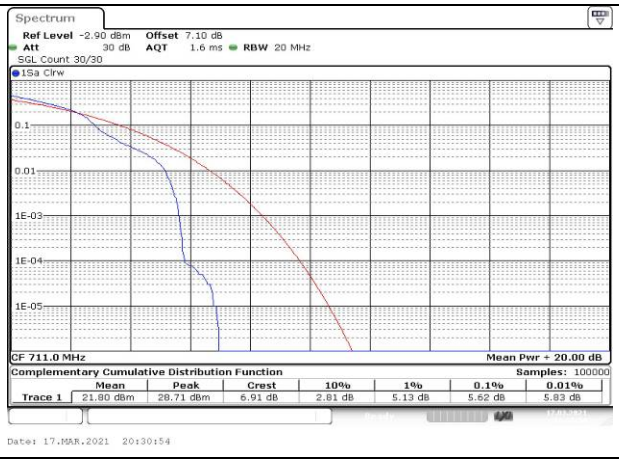

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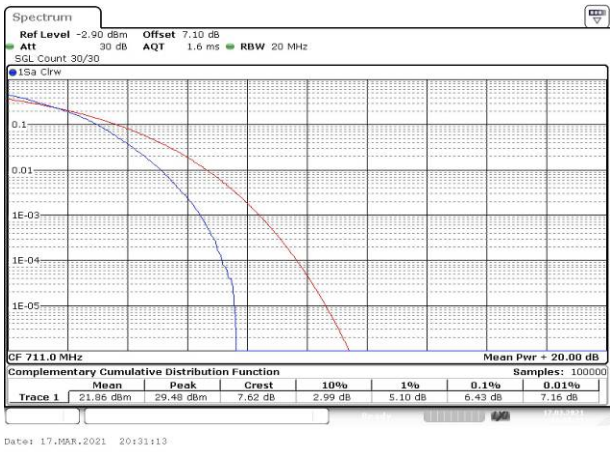

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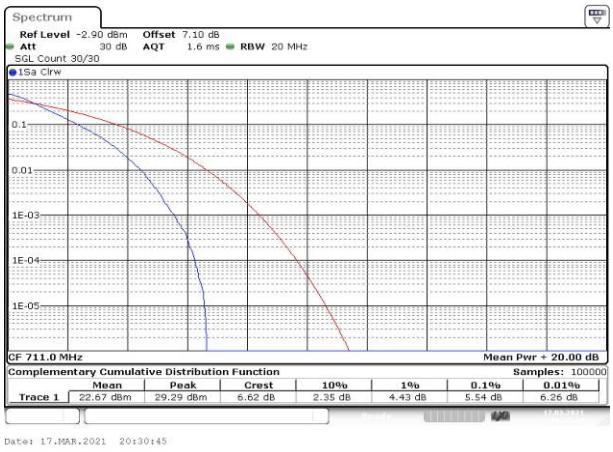

Fig.70

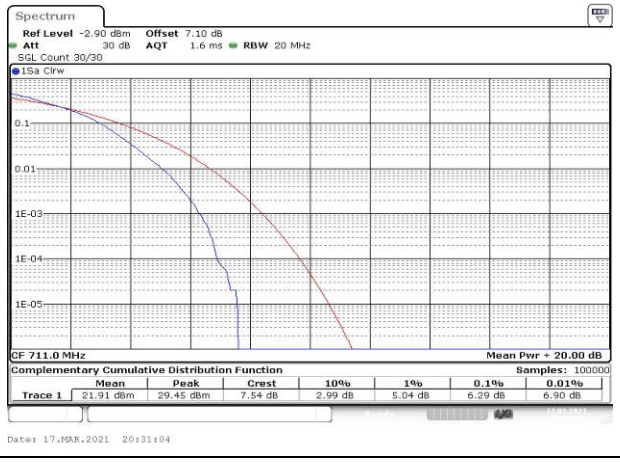

Fig.71

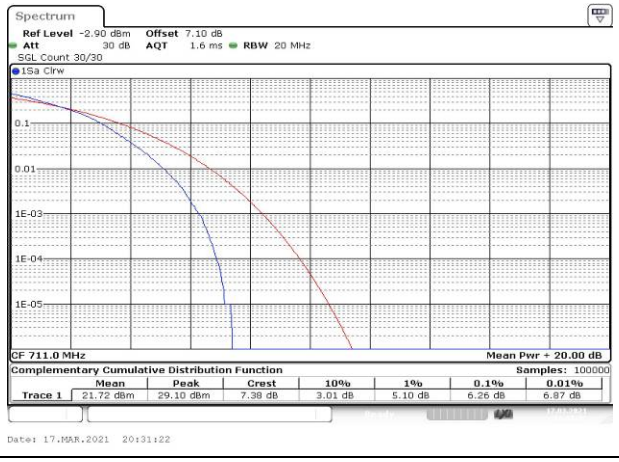

Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
12	704	23060	10	1	0	Fig.1
	707.5	23095		1	0	Fig.2
	711	23130		1	0	Fig.3

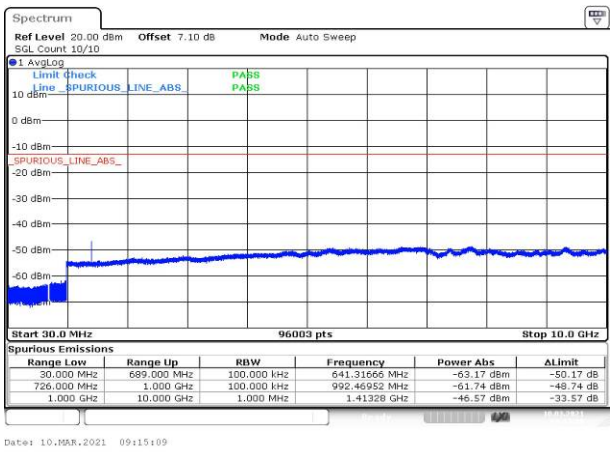

Fig.1

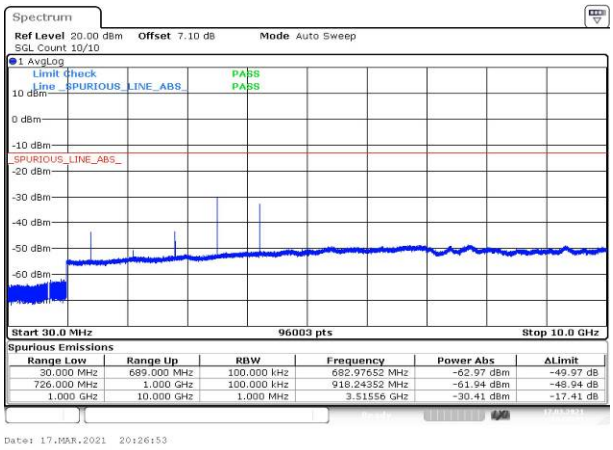

Fig.2

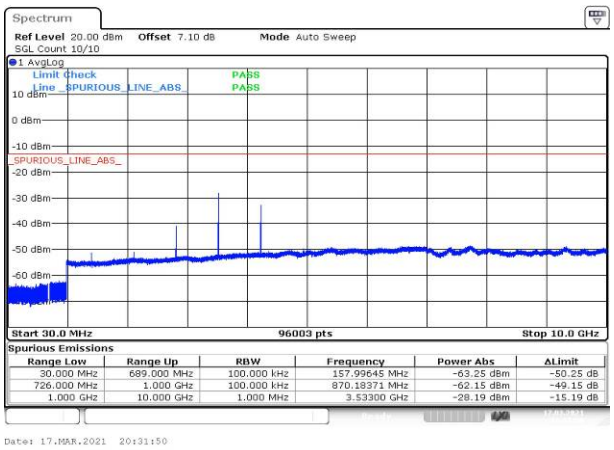

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
12	699.7	23017	1.4	1	0	Fig.1
				6	0	Fig.2
	715.3	23173		1	5	Fig.3
				6	0	Fig.4
	700.5	23025	3	1	0	Fig.5
				15	0	Fig.6
	714.5	23165		1	14	Fig.7
				15	0	Fig.8
	701.5	23035	5	1	0	Fig.9
				25	0	Fig.10
	713.5	23155		1	24	Fig.11
				25	0	Fig.12
	704	23060	10	1	0	Fig.13
				50	0	Fig.14
	711	23130		1	49	Fig.15
				50	0	Fig.16

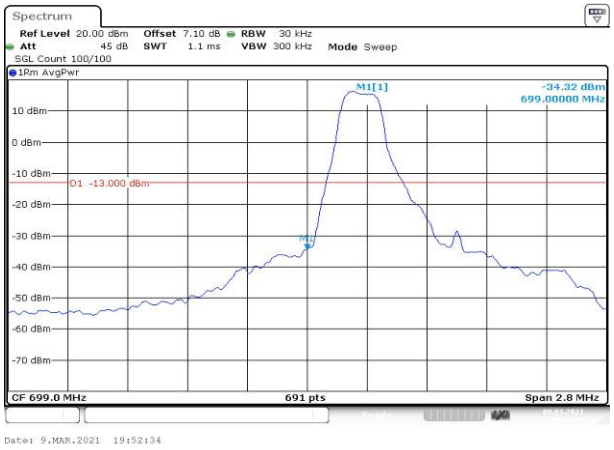

Fig.1

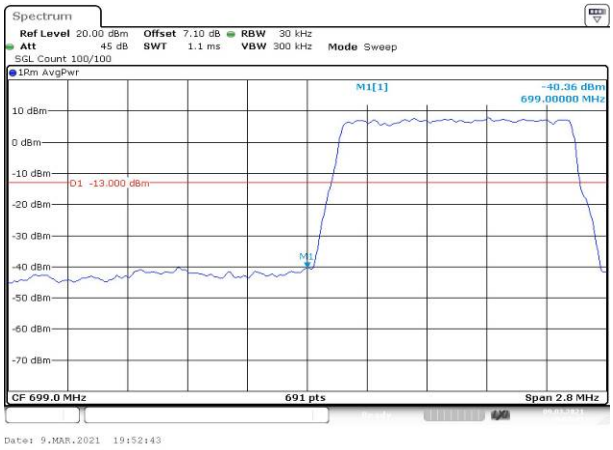

Fig.2

Fig.3

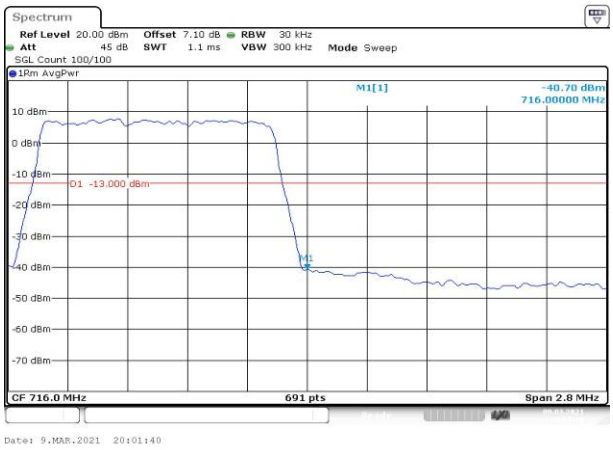

Fig.4

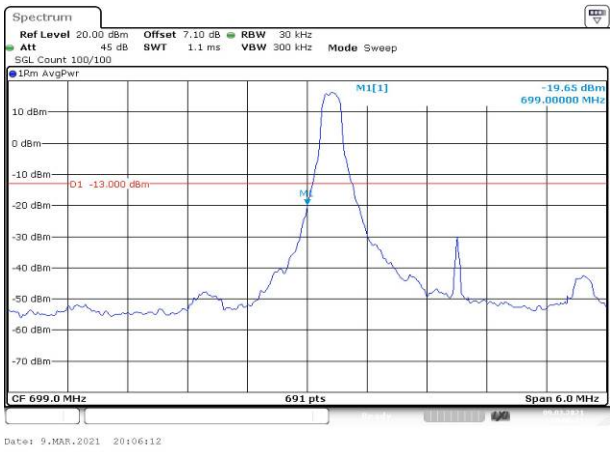

Fig.5

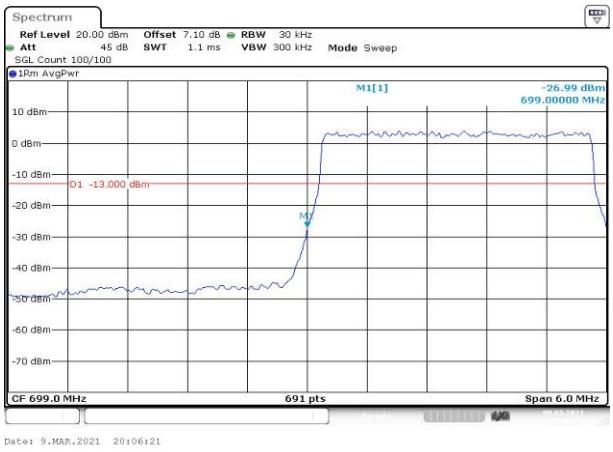

Fig.6

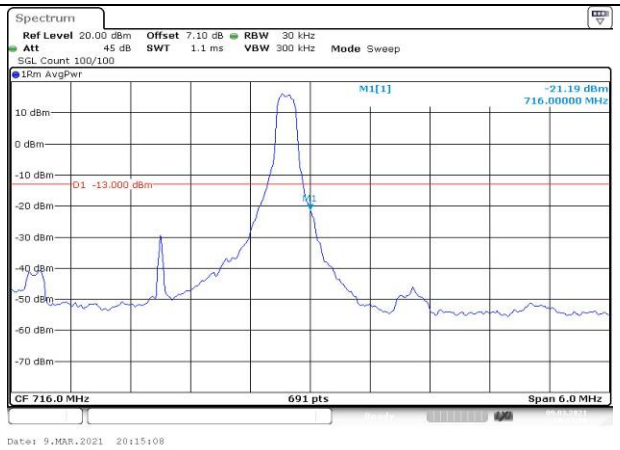

Fig.7

Fig.8

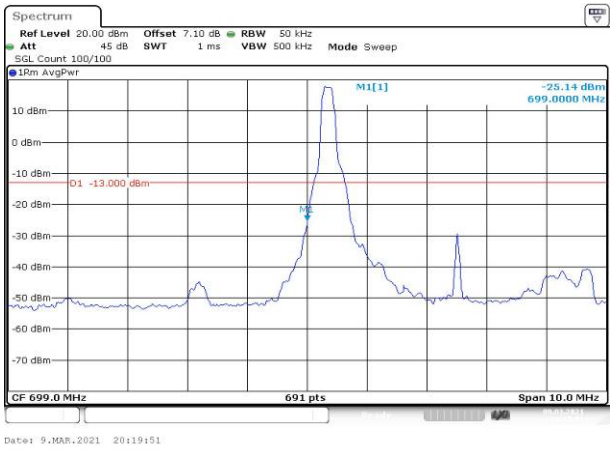

Fig.9

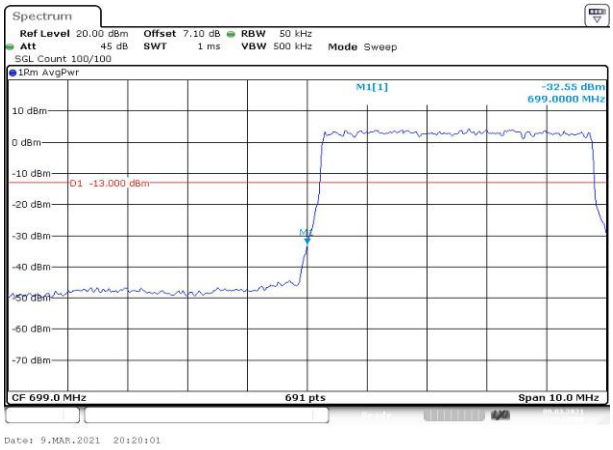

Fig.10

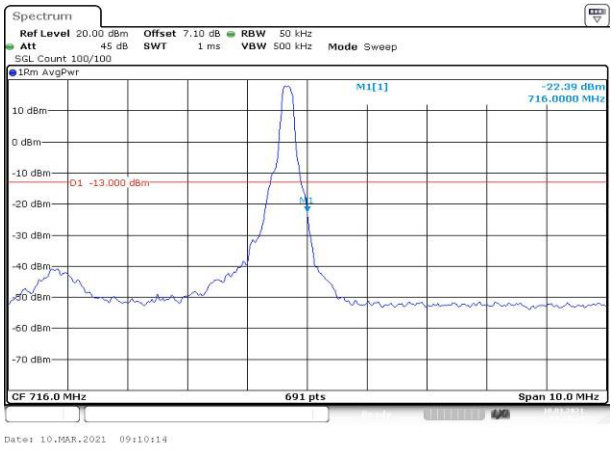

Fig.11

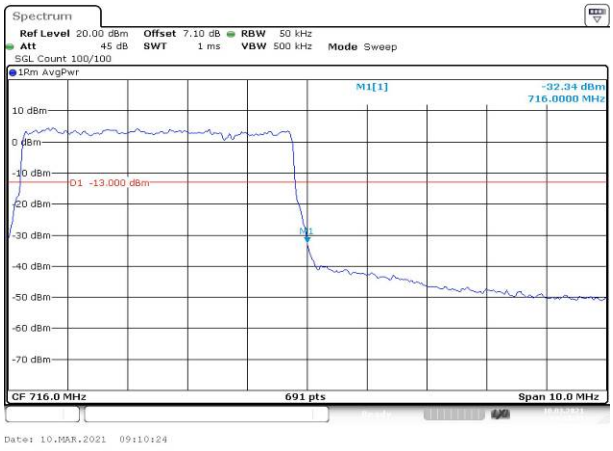

Fig.12

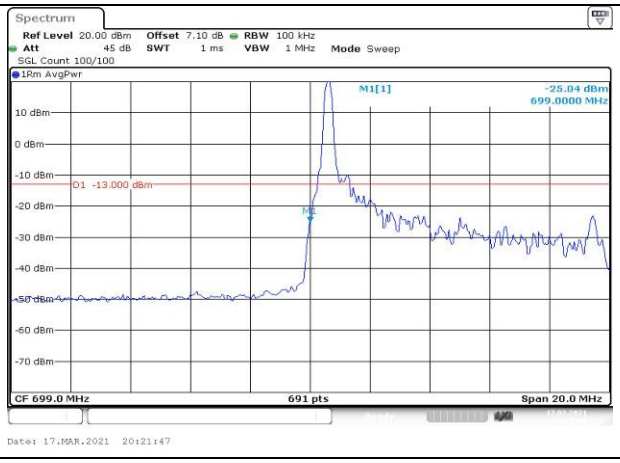

Fig.13

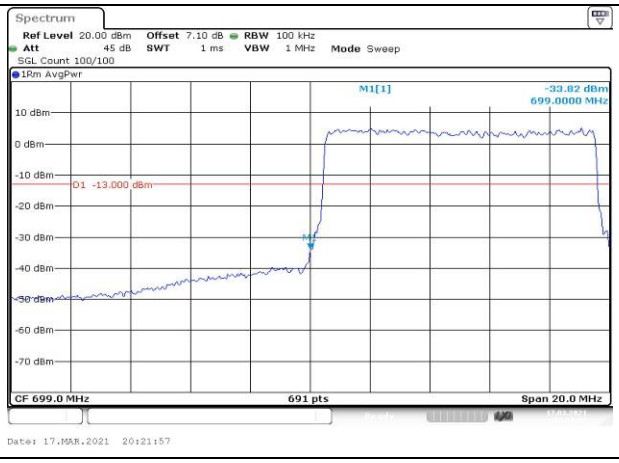

Fig.14

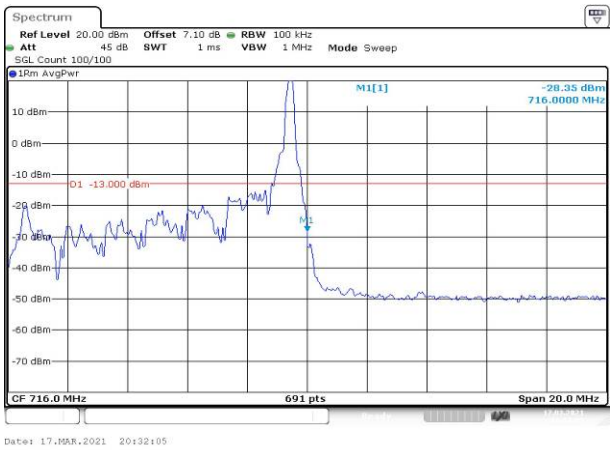

Fig.15

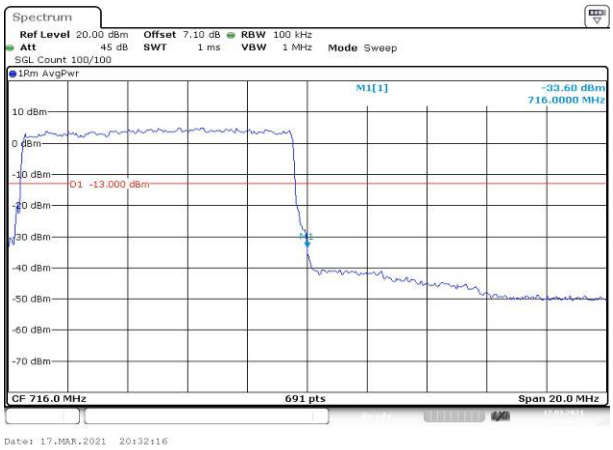

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band12 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.046	0.023	-0.041	-0.003	---	---
0	NV	-0.052	-0.005	-0.034	-0.025	---	---
+10	NV	-0.014	0.001	-0.023	-0.025	---	---
+20	NV	0.000	0.000	0.000	0.000	---	---
+30	NV	0.037	0.000	-0.013	0.008	---	---
+40	NV	-0.011	-0.066	0.022	-0.020	---	---
+50	NV	-0.034	-0.039	-0.004	-0.005	---	---
+55	NV	-0.024	-0.031	-0.008	-0.008	---	---
+20	LV	-0.037	-0.012	-0.046	0.012	---	---
+20	HV	0.004	-0.024	-0.051	0.003	---	---

Temperature(°C)	Voltage	Test Result (ppm) Band12 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.036	-0.017	0.021	-0.048	---	---
0	NV	0.015	-0.049	0.005	-0.028	---	---
+10	NV	0.013	-0.037	-0.016	-0.029	---	---
+20	NV	0.000	0.000	0.000	0.000	---	---
+30	NV	0.005	-0.046	-0.016	-0.052	---	---
+40	NV	0.029	0.016	-0.019	0.029	---	---
+50	NV	-0.031	0.010	-0.002	-0.029	---	---
+55	NV	-0.025	-0.013	-0.009	-0.022	---	---
+20	LV	0.009	0.011	0.001	-0.019	---	---
+20	HV	-0.025	-0.050	-0.022	-0.047	---	---

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	699.7	23017	1.4	1	0	23.16	21.21	0.132
				1	3	23.14	21.19	0.132
				1	5	23.19	21.24	0.133
				3	0	23.18	21.23	0.133
				3	1	23.10	21.15	0.130
				3	3	23.21	21.26	0.134
				6	0	22.25	20.30	0.107
	707.5	23095		1	0	23.16	21.21	0.132
				1	3	23.16	21.21	0.132
				1	5	23.19	21.24	0.133
				3	0	23.17	21.22	0.132
				3	1	23.16	21.21	0.132
				3	3	23.12	21.17	0.131
				6	0	22.14	20.19	0.104
	715.3	23173		1	0	23.06	21.11	0.129
				1	3	23.07	21.12	0.129
				1	5	22.95	21.00	0.126
				3	0	23.06	21.11	0.129
				3	1	23.02	21.07	0.128
				3	3	23.07	21.12	0.129
				6	0	22.15	20.20	0.105
16QAM	699.7	23017		1	0	22.39	20.44	0.111
				1	3	22.31	20.36	0.109
				1	5	22.31	20.36	0.109
				3	0	22.53	20.58	0.114
				3	1	22.50	20.55	0.114
				3	3	22.50	20.55	0.114
				6	0	21.29	19.34	0.086
	707.5	23095		1	0	22.31	20.36	0.109
				1	3	22.32	20.37	0.109
				1	5	22.39	20.44	0.111
				3	0	22.09	20.14	0.103
				3	1	22.15	20.20	0.105
				3	3	22.22	20.27	0.106
				6	0	21.18	19.23	0.084
	715.3	23173		1	0	22.26	20.31	0.107
				1	3	22.26	20.31	0.107
				1	5	22.26	20.31	0.107
				3	0	22.21	20.26	0.106
				3	1	22.18	20.23	0.105
				3	3	22.17	20.22	0.105
				6	0	21.07	19.12	0.082

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	699.7	23017	1.4	1	0	21.28	19.33	0.086
				1	3	21.27	19.32	0.086
				1	5	21.27	19.32	0.086
				3	0	21.26	19.31	0.085
				3	1	21.31	19.36	0.086
				3	3	21.25	19.30	0.085
				6	0	21.30	19.35	0.086
	707.5	23095		1	0	21.15	19.20	0.083
				1	3	21.18	19.23	0.084
				1	5	21.18	19.23	0.084
				3	0	21.18	19.23	0.084
				3	1	21.21	19.26	0.084
				3	3	21.25	19.30	0.085
				6	0	21.20	19.25	0.084
	715.3	23173		1	0	21.00	19.05	0.080
				1	3	21.02	19.07	0.081
				1	5	21.00	19.05	0.080
				3	0	21.02	19.07	0.081
				3	1	21.00	19.05	0.080
				3	3	20.98	19.03	0.080
				6	0	21.03	19.08	0.081

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	23.36	21.41	0.138
				1	8	23.23	21.28	0.134
				1	14	23.23	21.28	0.134
				8	0	22.38	20.43	0.110
				8	4	22.36	20.41	0.110
				8	7	22.36	20.41	0.110
				15	0	22.38	20.43	0.110
	707.5	23095		1	0	23.35	21.40	0.138
				1	8	23.28	21.33	0.136
				1	14	23.28	21.33	0.136
				8	0	22.34	20.39	0.109
				8	4	22.32	20.37	0.109
				8	7	22.28	20.33	0.108
				15	0	22.30	20.35	0.108
	714.5	23165		1	0	23.16	21.21	0.132
				1	8	23.16	21.21	0.132
				1	14	23.16	21.21	0.132
				8	0	22.18	20.23	0.105
				8	4	22.17	20.22	0.105
				8	7	22.17	20.22	0.105
				15	0	22.17	20.22	0.105
16QAM	700.5	23025		1	0	23.07	21.12	0.129
				1	8	22.89	20.94	0.124
				1	14	22.95	21.00	0.126
				8	0	21.55	19.60	0.091
				8	4	21.55	19.60	0.091
				8	7	21.56	19.61	0.091
				15	0	21.48	19.53	0.090
	707.5	23095		1	0	22.52	20.57	0.114
				1	8	22.39	20.44	0.111
				1	14	22.49	20.54	0.113
				8	0	21.29	19.34	0.086
				8	4	21.31	19.36	0.086
				8	7	21.26	19.31	0.085
				15	0	21.29	19.34	0.086
	714.5	23165		1	0	22.42	20.47	0.111
				1	8	22.30	20.35	0.108
				1	14	22.29	20.34	0.108
				8	0	21.26	19.31	0.085
				8	4	21.22	19.27	0.085
				8	7	21.26	19.31	0.085
				15	0	21.26	19.31	0.085

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	700.5	23025	3	1	0	21.44	19.49	0.089
				1	8	21.49	19.54	0.090
				1	14	21.45	19.50	0.089
				8	0	21.49	19.54	0.090
				8	4	21.44	19.49	0.089
				8	7	21.48	19.53	0.090
				15	0	21.44	19.49	0.089
	707.5	23095		1	0	21.26	19.31	0.085
				1	8	21.29	19.34	0.086
				1	14	21.24	19.29	0.085
				8	0	21.29	19.34	0.086
				8	4	21.29	19.34	0.086
				8	7	21.28	19.33	0.086
				15	0	21.29	19.34	0.086
	714.5	23165		1	0	21.28	19.33	0.086
				1	8	21.23	19.28	0.085
				1	14	21.22	19.27	0.085
				8	0	21.23	19.28	0.085
				8	4	21.23	19.28	0.085
				8	7	21.29	19.34	0.086
				15	0	21.28	19.33	0.086

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	23.30	21.35	0.136
				1	12	23.30	21.35	0.136
				1	24	23.29	21.34	0.136
				12	0	22.41	20.46	0.111
				12	7	22.31	20.36	0.109
				12	13	22.36	20.41	0.110
				25	0	22.33	20.38	0.109
	707.5	23095		1	0	23.33	21.38	0.137
				1	12	23.27	21.32	0.136
				1	24	23.23	21.28	0.134
				12	0	22.30	20.35	0.108
				12	7	22.29	20.34	0.108
				12	13	22.29	20.34	0.108
				25	0	22.31	20.36	0.109
	713.5	23155		1	0	23.20	21.25	0.133
				1	12	23.11	21.16	0.131
				1	24	23.09	21.14	0.130
				12	0	22.29	20.34	0.108
				12	7	22.21	20.26	0.106
				12	13	22.17	20.22	0.105
				25	0	22.19	20.24	0.106
16QAM	701.5	23035		1	0	22.40	20.45	0.111
				1	12	22.33	20.38	0.109
				1	24	22.40	20.45	0.111
				12	0	21.42	19.47	0.089
				12	7	21.37	19.42	0.087
				12	13	21.37	19.42	0.087
				25	0	21.42	19.47	0.089
	707.5	23095		1	0	22.66	20.71	0.118
				1	12	22.57	20.62	0.115
				1	24	22.57	20.62	0.115
				12	0	21.44	19.49	0.089
				12	7	21.35	19.40	0.087
				12	13	21.39	19.44	0.088
				25	0	21.31	19.36	0.086
	713.5	23155		1	0	22.23	20.28	0.107
				1	12	22.19	20.24	0.106
				1	24	22.18	20.23	0.105
				12	0	21.23	19.28	0.085
				12	7	21.17	19.22	0.084
				12	13	21.22	19.27	0.085
				25	0	21.27	19.32	0.086

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	701.5	23035	5	1	0	21.40	19.45	0.088
				1	12	21.41	19.46	0.088
				1	24	21.52	19.57	0.091
				12	0	21.44	19.49	0.089
				12	7	21.40	19.45	0.088
				12	13	21.52	19.57	0.091
				25	0	21.47	19.52	0.090
	707.5	23095		1	0	21.30	19.35	0.086
				1	12	21.30	19.35	0.086
				1	24	21.29	19.34	0.086
				12	0	21.30	19.35	0.086
				12	7	21.29	19.34	0.086
				12	13	21.29	19.34	0.086
				25	0	21.32	19.37	0.086
	713.5	23155		1	0	21.27	19.32	0.086
				1	12	21.32	19.37	0.086
				1	24	21.30	19.35	0.086
				12	0	21.32	19.37	0.086
				12	7	21.29	19.34	0.086
				12	13	21.27	19.32	0.086
				25	0	21.28	19.33	0.086

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	704	23060	10	1	0	23.25	21.30	0.135
				1	25	23.18	21.23	0.133
				1	49	23.27	21.32	0.136
				25	0	22.36	20.41	0.110
				25	12	22.34	20.39	0.109
				25	25	22.34	20.39	0.109
				50	0	22.36	20.41	0.110
	707.5	23095		1	0	23.35	21.40	0.138
				1	25	23.20	21.25	0.133
				1	49	23.19	21.24	0.133
				25	0	22.31	20.36	0.109
				25	12	22.23	20.28	0.107
				25	25	22.38	20.43	0.110
				50	0	22.33	20.38	0.109
	711	23130		1	0	23.25	21.30	0.135
				1	25	23.05	21.10	0.129
				1	49	23.14	21.19	0.132
				25	0	22.33	20.38	0.109
				25	12	22.22	20.27	0.106
				25	25	22.25	20.30	0.107
				50	0	22.39	20.44	0.111
16QAM	704	23060		1	0	22.92	20.97	0.125
				1	25	22.87	20.92	0.124
				1	49	22.76	20.81	0.121
				25	0	21.40	19.45	0.088
				25	12	21.37	19.42	0.087
				25	25	21.40	19.45	0.088
				50	0	21.44	19.49	0.089
	707.5	23095		1	0	22.41	20.46	0.111
				1	25	22.40	20.45	0.111
				1	49	22.43	20.48	0.112
				25	0	21.35	19.40	0.087
				25	12	21.34	19.39	0.087
				25	25	21.40	19.45	0.088
				50	0	21.33	19.38	0.087
	711	23130		1	0	22.90	20.95	0.124
				1	25	22.75	20.80	0.120
				1	49	22.72	20.77	0.119
				25	0	21.35	19.40	0.087
				25	12	21.38	19.43	0.088
				25	25	21.38	19.43	0.088
				50	0	21.39	19.44	0.088

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	704	23060	10	1	0	21.37	19.42	0.087
				1	25	21.37	19.42	0.087
				1	49	21.36	19.41	0.087
				25	0	21.37	19.42	0.087
				25	12	21.35	19.40	0.087
				25	25	21.42	19.47	0.089
				50	0	21.42	19.47	0.089
	707.5	23095		1	0	21.27	19.32	0.086
				1	25	21.27	19.32	0.086
				1	49	21.27	19.32	0.086
				25	0	21.44	19.49	0.089
				25	12	21.26	19.31	0.085
				25	25	21.39	19.44	0.088
				50	0	21.30	19.35	0.086
	711	23130		1	0	21.36	19.41	0.087
				1	25	21.39	19.44	0.088
				1	49	21.32	19.37	0.086
				25	0	21.32	19.37	0.086
				25	12	21.38	19.43	0.088
				25	25	21.33	19.38	0.087
				50	0	21.34	19.39	0.087