

Report No.: SEWM2305000166RG01

Rev.: 01

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# Appendix B.5

## LTE Band 4



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.51	22.28	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.50	22.27	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.55	22.32	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.16	20.93	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.36	22.13	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.46	22.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.51	22.28	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.55	21.32	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.53	21.30	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.54	22.31	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.50	22.27	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.65	21.42	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.75	21.52	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.90	21.67	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.76	21.53	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.06	19.83	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.84	21.61	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.48	21.25	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.76	21.53	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.52	20.29	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.68	21.45	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.63	21.40	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.57	21.34	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.63	20.40	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.35	20.12	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.81	20.58	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.88	19.65	30.00	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	18.90	17.67	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.56	20.33	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.87	20.64	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.61	20.38	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.54	19.31	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.94	20.71	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.95	20.72	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.80	20.57	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.66	19.43	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#0	18.15	16.92	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#2	18.50	17.27	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#5	18.18	16.95	30.00	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	17.76	16.53	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#0	18.55	17.32	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#2	18.73	17.50	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#5	18.70	17.47	30.00	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	18.54	17.31	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#0	18.59	17.36	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#2	18.98	17.75	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#5	18.81	17.58	30.00	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	18.69	17.46	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.52	22.29	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.70	22.47	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.58	22.35	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.67	21.44	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.54	22.31	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.69	22.46	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.47	22.24	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.55	21.32	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.41	22.18	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.68	22.45	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.70	22.47	30.00	PASS



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Band4	3MHz	QPSK	20385	15RB#0	22.75	21.52	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.95	21.72	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.05	21.82	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.99	21.76	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.68	20.45	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.76	21.53	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.75	21.52	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.90	21.67	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.52	20.29	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.85	21.62	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.04	21.81	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.01	21.78	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.61	20.38	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.85	20.62	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.03	20.80	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.73	20.50	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.77	19.54	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.78	20.55	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.84	20.61	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.91	20.68	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.68	19.45	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.84	20.61	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.03	20.80	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.01	20.78	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.80	19.57	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#0	18.87	17.64	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#8	18.97	17.74	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#14	18.80	17.57	30.00	PASS
Band4	3MHz	256QAM	19965	15RB#0	18.69	17.46	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#0	18.62	17.39	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#8	18.89	17.66	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#14	18.81	17.58	30.00	PASS



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Band4	3MHz	256QAM	20175	15RB#0	18.65	17.42	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#0	18.81	17.58	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#8	18.90	17.67	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#14	18.82	17.59	30.00	PASS
Band4	3MHz	256QAM	20385	15RB#0	18.80	17.57	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.60	22.37	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.55	22.32	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.59	22.36	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.77	21.54	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.52	22.29	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.50	22.27	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.53	22.30	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.66	21.43	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.37	22.14	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.58	22.35	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.74	22.51	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.71	21.48	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.88	21.65	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.92	21.69	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.85	21.62	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.70	20.47	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.79	21.56	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.79	21.56	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.79	21.56	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.64	20.41	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.85	21.62	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.95	21.72	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.08	21.85	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.83	20.60	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.90	20.67	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.80	20.57	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.91	20.68	30.00	PASS



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Band4	5MHz	64QAM	19975	25RB#0	20.77	19.54	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.81	20.58	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.73	20.50	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.92	20.69	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.54	19.31	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.89	20.66	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.92	20.69	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.03	20.80	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.75	19.52	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#0	18.80	17.57	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#12	18.80	17.57	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#24	18.82	17.59	30.00	PASS
Band4	5MHz	256QAM	19975	25RB#0	18.74	17.51	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#0	18.69	17.46	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#12	18.71	17.48	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#24	18.85	17.62	30.00	PASS
Band4	5MHz	256QAM	20175	25RB#0	18.61	17.38	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#0	18.81	17.58	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#12	18.81	17.58	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#24	19.01	17.78	30.00	PASS
Band4	5MHz	256QAM	20375	25RB#0	18.73	17.50	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.50	22.27	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.50	22.27	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.62	22.39	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.70	21.47	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.36	22.13	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.51	22.28	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.50	22.27	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.63	21.40	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.26	22.03	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.51	22.28	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.55	22.32	30.00	PASS



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Band4	10MHz	QPSK	20350	50RB#0	22.64	21.41	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.57	21.34	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.77	21.54	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.76	21.53	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.77	20.54	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.58	21.35	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.73	21.50	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.52	21.29	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.65	20.42	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.65	21.42	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.86	21.63	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.90	21.67	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.69	20.46	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.90	20.67	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.87	20.64	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.88	20.65	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.77	19.54	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.79	20.56	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.78	20.55	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.96	20.73	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.69	19.46	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.78	20.55	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.00	20.77	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.03	20.80	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.79	19.56	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#0	18.74	17.51	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#24	18.70	17.47	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#49	18.75	17.52	30.00	PASS
Band4	10MHz	256QAM	20000	50RB#0	18.78	17.55	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#0	18.50	17.27	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#24	18.73	17.50	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#49	18.81	17.58	30.00	PASS



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Band4	10MHz	256QAM	20175	50RB#0	18.61	17.38	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#0	18.54	17.31	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#24	18.86	17.63	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#49	18.83	17.60	30.00	PASS
Band4	10MHz	256QAM	20350	50RB#0	18.71	17.48	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.32	22.09	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.45	22.22	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.44	22.21	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.52	21.29	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.55	22.32	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.32	22.09	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.38	22.15	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.50	21.27	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.46	22.23	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.45	22.22	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.46	22.23	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.54	21.31	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.63	21.40	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.70	21.47	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.63	21.40	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.50	20.27	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.60	21.37	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.80	21.57	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.58	21.35	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.52	20.29	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.80	21.57	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.75	21.52	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.83	21.60	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.57	20.34	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.62	20.39	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.65	20.42	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.50	20.27	30.00	PASS



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Band4	15MHz	64QAM	20025	75RB#0	20.50	19.27	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.52	20.29	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.65	20.42	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.71	20.48	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.51	19.28	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.48	20.25	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.70	20.47	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.84	20.61	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.56	19.33	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#0	18.58	17.35	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#38	18.59	17.36	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#74	18.44	17.21	30.00	PASS
Band4	15MHz	256QAM	20025	75RB#0	18.53	17.30	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#0	18.48	17.25	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#38	18.57	17.34	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#74	18.59	17.36	30.00	PASS
Band4	15MHz	256QAM	20175	75RB#0	18.53	17.30	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#0	18.47	17.24	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#38	18.59	17.36	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#74	18.76	17.53	30.00	PASS
Band4	15MHz	256QAM	20325	75RB#0	18.45	17.22	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.36	22.13	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.27	22.04	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.35	22.12	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.40	21.17	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.41	22.18	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.35	22.12	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.46	22.23	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.48	21.25	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.25	22.02	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.44	22.21	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.60	22.37	30.00	PASS



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Band4	20MHz	QPSK	20300	100RB#0	22.51	21.28	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.53	21.30	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.63	21.40	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.83	21.60	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.43	20.20	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.59	21.36	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.73	21.50	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.74	21.51	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.59	20.36	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.76	21.53	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.59	21.36	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.98	21.75	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.55	20.32	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.66	20.43	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.62	20.39	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.60	20.37	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.50	19.27	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.55	20.32	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.67	20.44	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.77	20.54	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.58	19.35	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.39	20.16	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.72	20.49	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.75	20.52	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.57	19.34	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#0	18.59	17.36	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#49	18.57	17.34	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#99	18.59	17.36	30.00	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.45	17.22	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#0	18.60	17.37	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#49	18.62	17.39	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#99	18.57	17.34	30.00	PASS



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Rev.: 01

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Band4	20MHz	256QAM	20175	100RB#0	18.55	17.32	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.48	17.25	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#49	18.69	17.46	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.84	17.61	30.00	PASS
Band4	20MHz	256QAM	20300	100RB#0	18.52	17.29	30.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.02	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.38	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.58	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.80	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.70	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.70	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.40	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.28	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.26	13	PASS
Band4	20MHz	256QAM	20050	100RB#0	6.36	13	PASS
Band4	20MHz	256QAM	20175	100RB#0	6.30	13	PASS
Band4	20MHz	256QAM	20300	100RB#0	6.30	13	PASS



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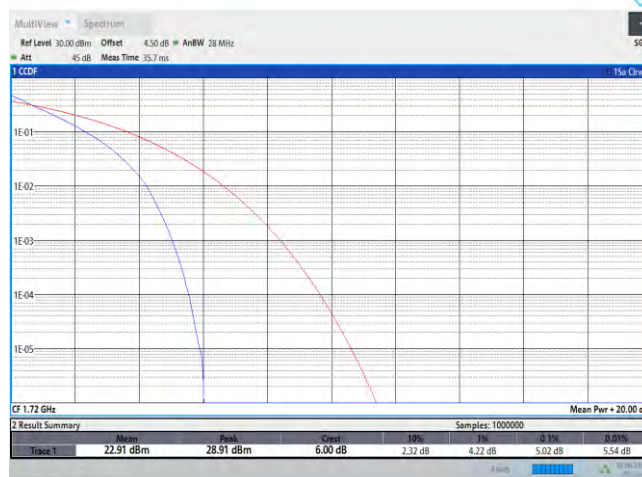
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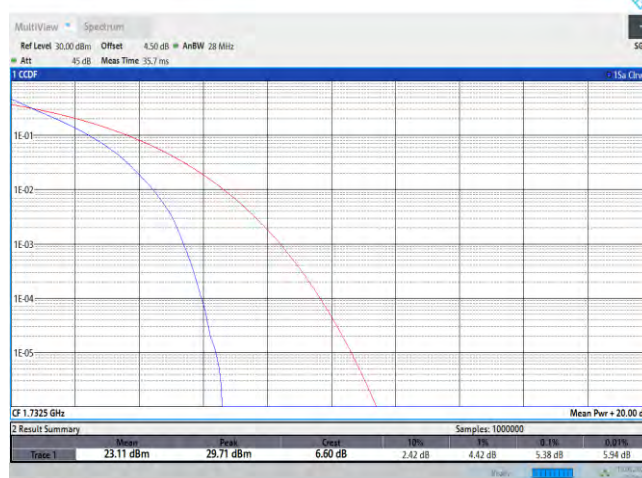
Test Graphs

Band4-20MHz-QPSK-20050-100RB#0



04:35:40 02.06.2023

Band4-20MHz-QPSK-20175-100RB#0



23:38:08 19.05.2023

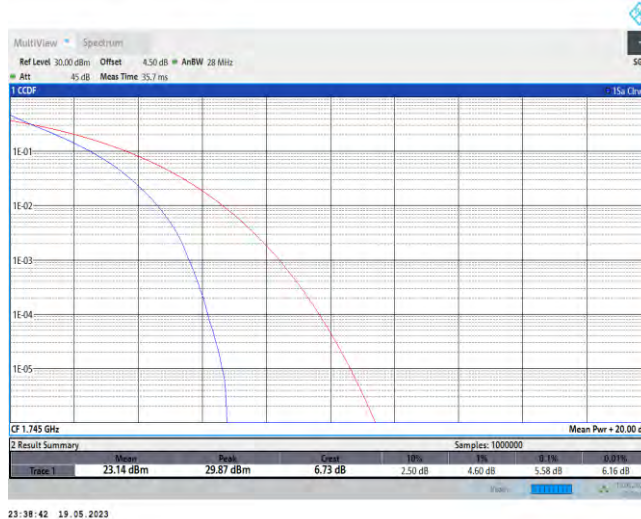


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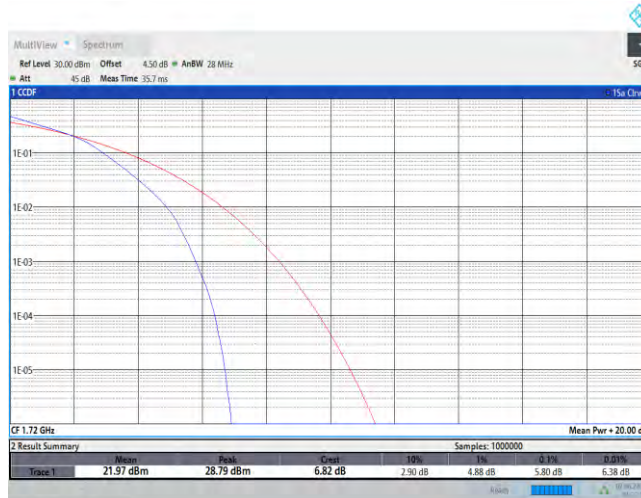
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Band4-20MHz-QPSK-20300-100RB#0



23:38:42 19. 05. 2023

Band4-20MHz-16QAM-20050-100RB#0



04:35:57 02. 06. 2023



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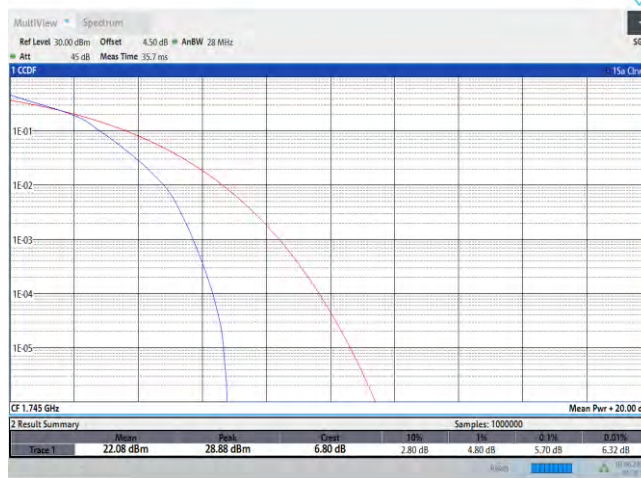
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Band4-20MHz-16QAM-20175-100RB#0



04:37:08 02.06.2023

Band4-20MHz-16QAM-20300-100RB#0



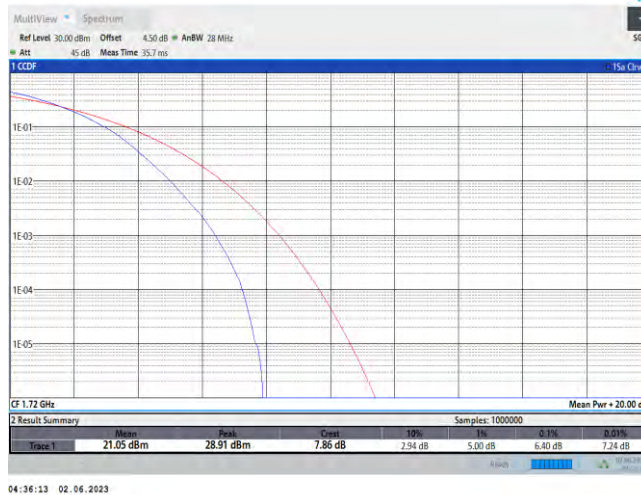
04:38:19 02.06.2023



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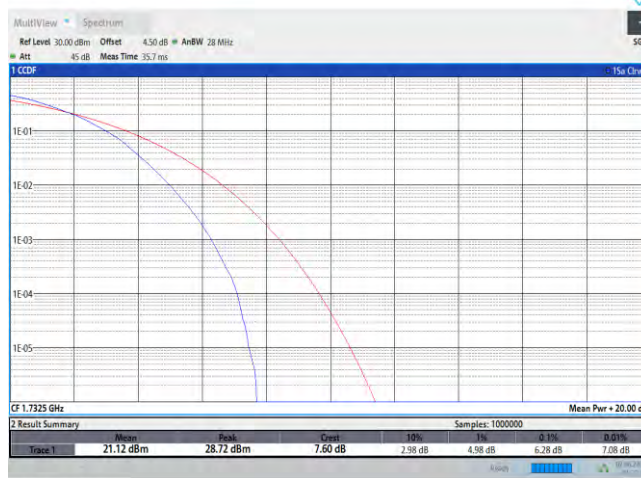
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Band4-20MHz-64QAM-20050-100RB#0



04:36:13 02.06.2023

Band4-20MHz-64QAM-20175-100RB#0



04:37:24 02.06.2023

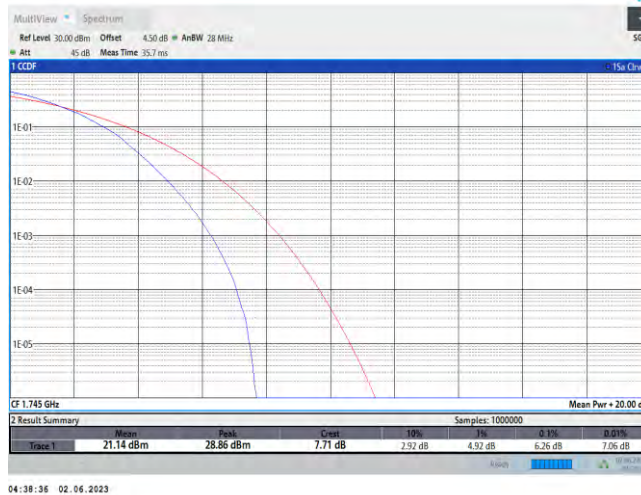


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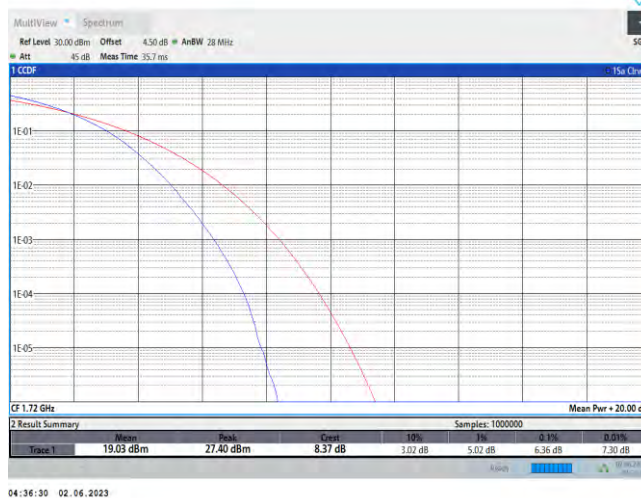
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Band4-20MHz-64QAM-20300-100RB#0



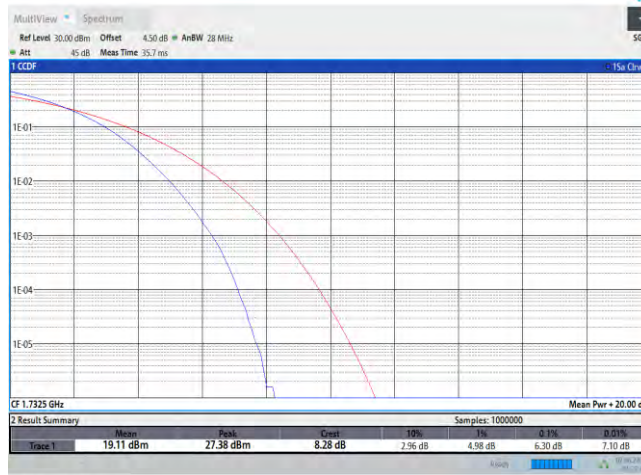
Band4-20MHz-256QAM-20050-100RB#0



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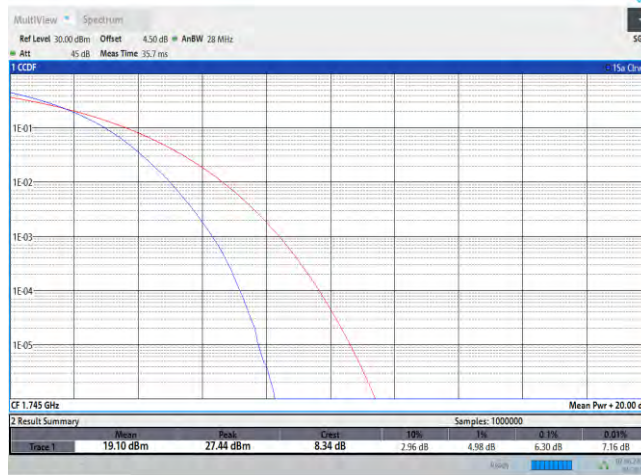
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Band4-20MHz-256QAM-20175-100RB#0



04:37:41 02.06.2023

Band4-20MHz-256QAM-20300-100RB#0



04:38:53 02.06.2023



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	256QAM	20175	100RB#0	PASS	PASS



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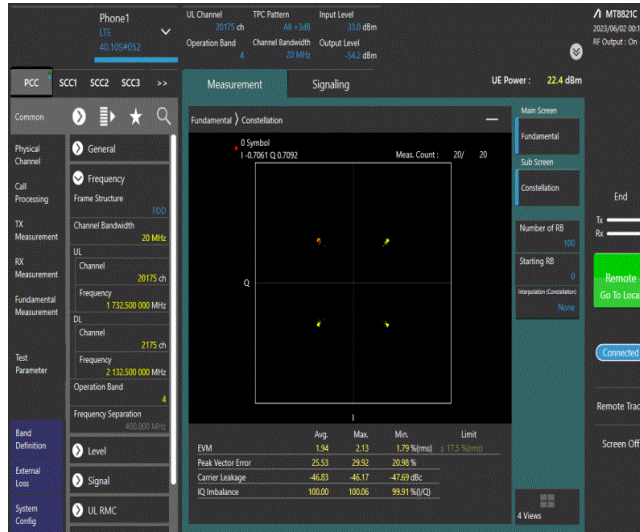
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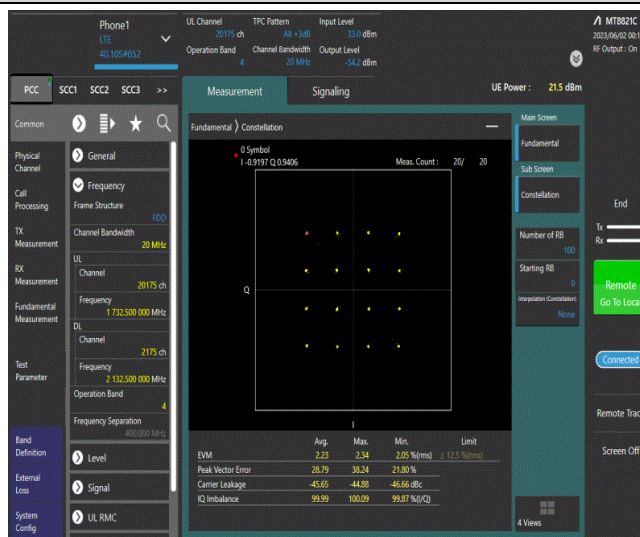
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Test Graphs

Band4-20MHz-QPSK-20175-100RB#0



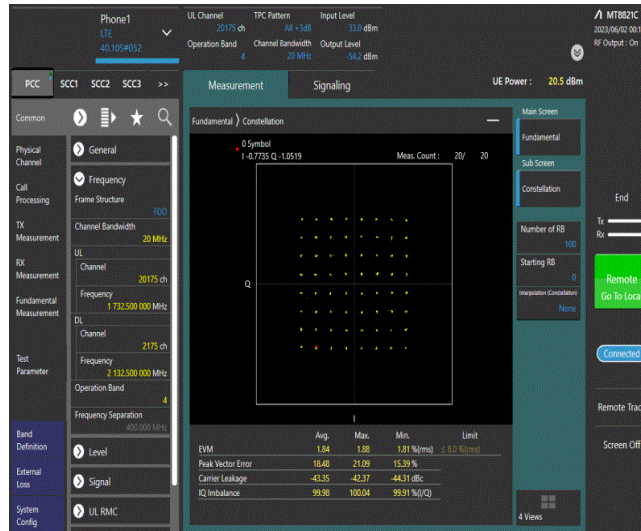
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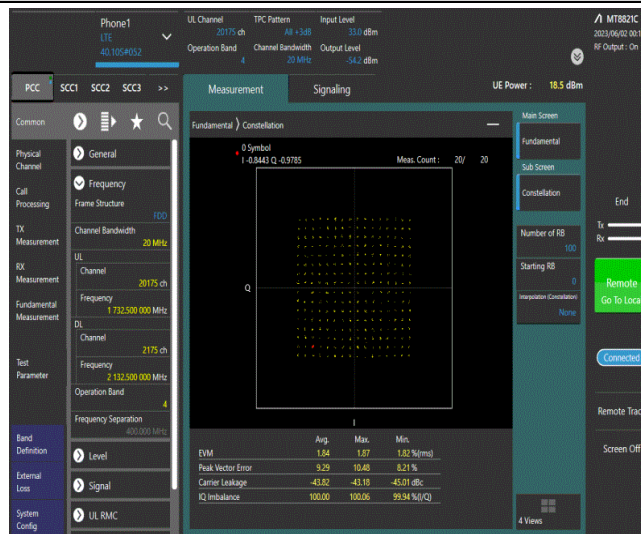
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Band4-20MHz-64QAM-20175-100RB#0



Band4-20MHz-256QAM-20175-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.096	1.24	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.083	1.23	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.086	1.24	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.082	1.23	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.085	1.21	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.086	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.089	1.23	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.089	1.23	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.097	1.24	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	1.089	1.24	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.081	1.22	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	1.089	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.715	2.93	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.699	2.98	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.695	2.98	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.694	2.96	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.693	2.94	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.703	2.95	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.689	2.98	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.702	2.92	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.694	2.95	PASS
Band4	3MHz	256QAM	19965	15RB#0	2.690	2.97	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.685	3.01	PASS
Band4	3MHz	256QAM	20385	15RB#0	2.691	2.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.464	4.87	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.468	4.81	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.470	4.87	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.484	4.87	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.474	4.77	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.479	4.88	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.477	4.85	PASS



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Band4	5MHz	64QAM	20175	25RB#0	4.493	4.85	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.480	4.87	PASS
Band4	5MHz	256QAM	19975	25RB#0	4.473	4.87	PASS
Band4	5MHz	256QAM	20175	25RB#0	4.469	4.86	PASS
Band4	5MHz	256QAM	20375	25RB#0	4.469	4.86	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.66	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.930	9.50	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.912	9.60	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.961	9.60	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.922	9.62	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.930	9.56	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.955	9.64	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.956	9.80	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.956	9.56	PASS
Band4	10MHz	256QAM	20000	50RB#0	8.909	9.60	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.941	9.58	PASS
Band4	10MHz	256QAM	20350	50RB#0	8.945	9.60	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.461	14.55	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.446	14.70	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.426	14.64	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.431	14.61	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.453	14.55	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.453	14.58	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.462	14.61	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.449	14.61	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.478	14.61	PASS
Band4	15MHz	256QAM	20025	75RB#0	13.478	14.55	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.465	14.46	PASS
Band4	15MHz	256QAM	20325	75RB#0	13.472	14.49	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.08	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.898	19.32	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.846	19.24	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.858	19.40	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.886	19.08	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.904	19.32	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.24	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.900	19.32	PASS



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Rev.: 01

Page: 24 of 88

Band4	20MHz	64QAM	20300	100RB#0	17.927	19.32	PASS
Band4	20MHz	256QAM	20050	100RB#0	17.949	19.08	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.838	19.24	PASS
Band4	20MHz	256QAM	20300	100RB#0	17.927	19.16	PASS



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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



03:27:55 02.06.2023

Band4-1.4MHz-QPSK-20175-6RB#0



03:28:55 02.06.2023



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Band4-1.4MHz-QPSK-20393-6RB#0



03:29:55 02.06.2023

Band4-1.4MHz-16QAM-19957-6RB#0



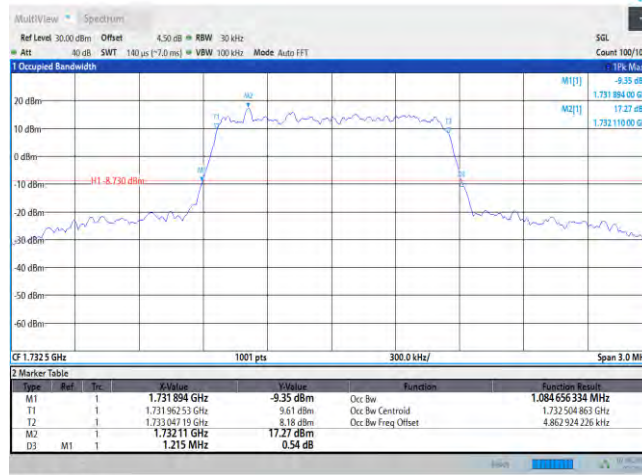
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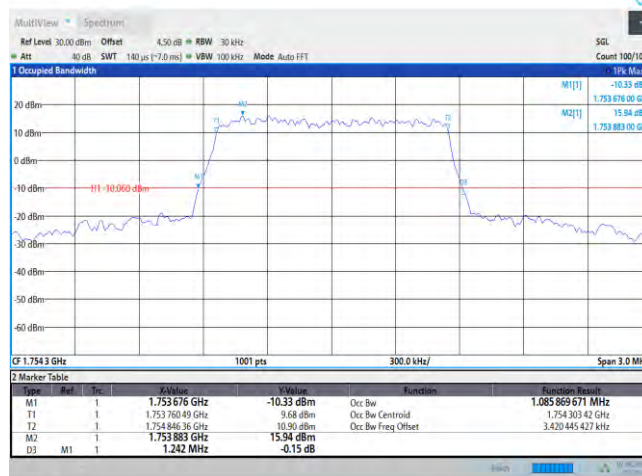
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Band4-1.4MHz-16QAM-20175-6RB#0



03:29:10 02.06.2023

Band4-1.4MHz-16QAM-20393-6RB#0



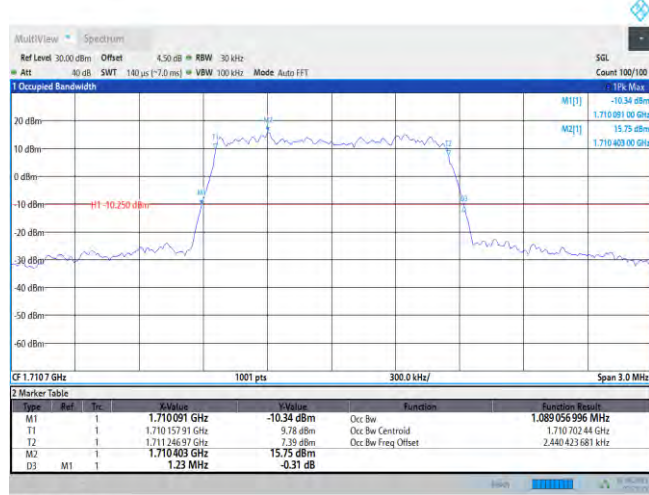
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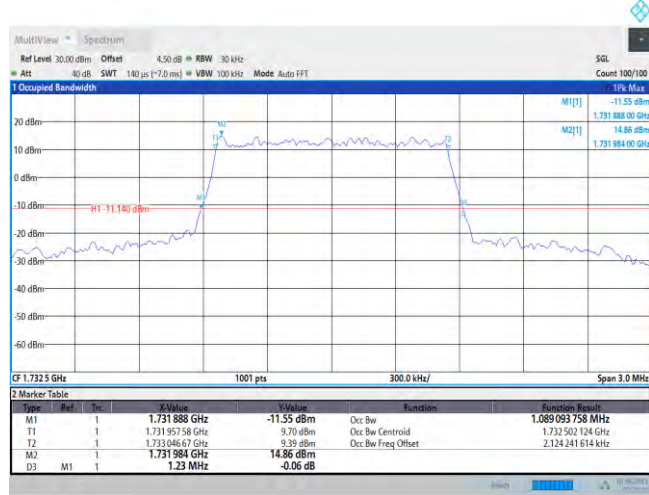
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Band4-1.4MHz-64QAM-19957-6RB#0



03:28:24 02.06.2023

Band4-1.4MHz-64QAM-20175-6RB#0



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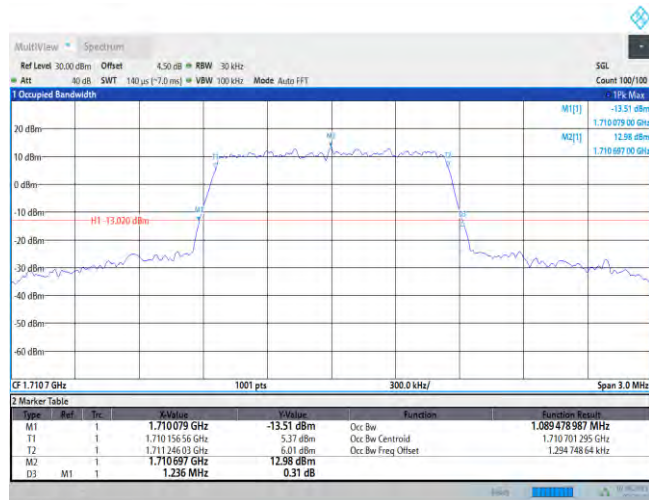
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Band4-1.4MHz-64QAM-20393-6RB#0



03:30:24 02.06.2023

Band4-1.4MHz-256QAM-19957-6RB#0



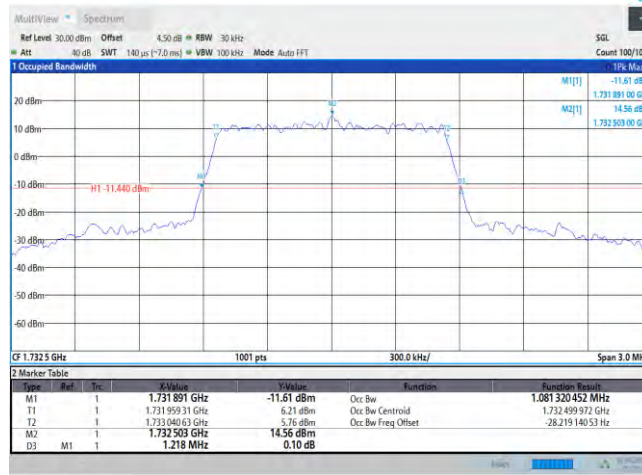
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Band4-1.4MHz-256QAM-20175-6RB#0



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Band4-1.4MHz-256QAM-20393-6RB#0



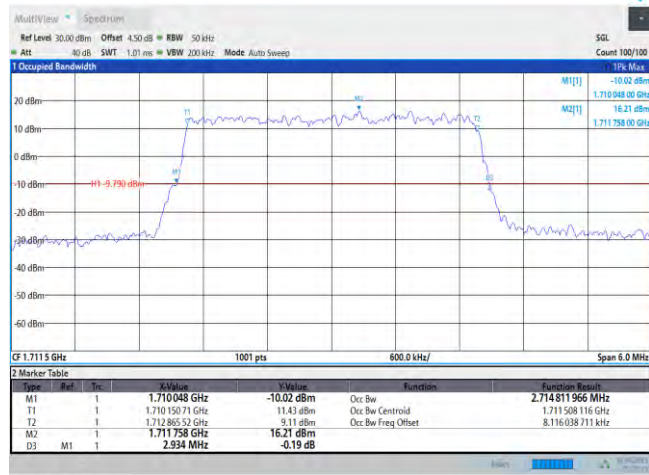
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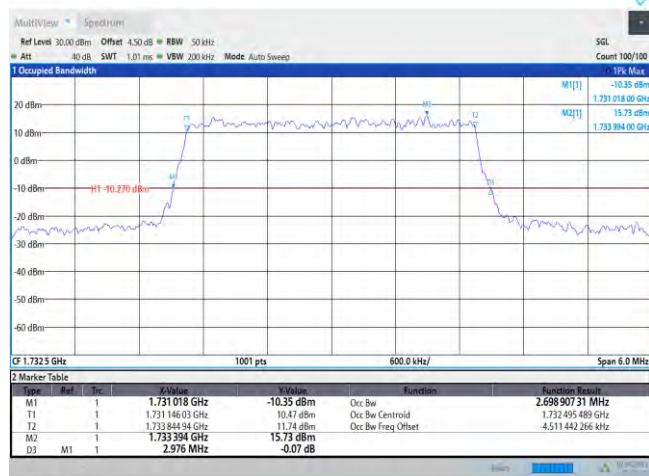
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Band4-3MHz-QPSK-19965-15RB#0



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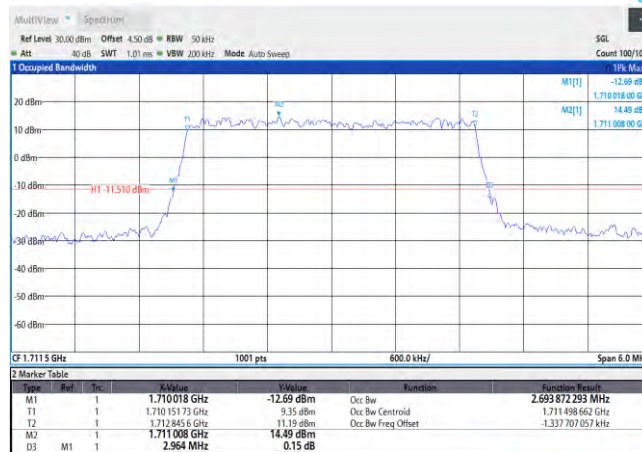
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Band4-3MHz-16QAM-19965-15RB#0



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Band4-3MHz-16QAM-20175-15RB#0



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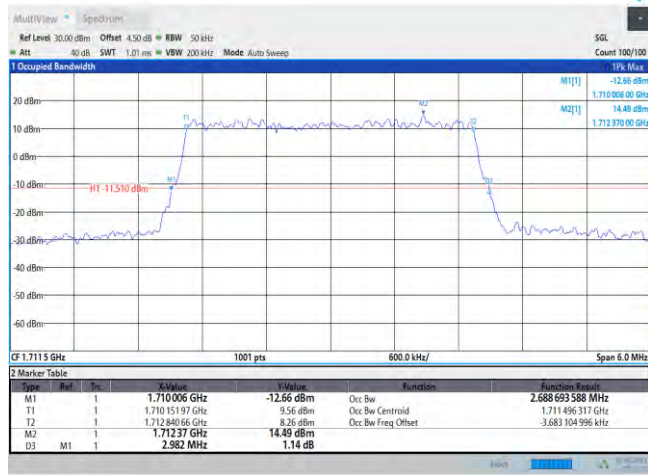
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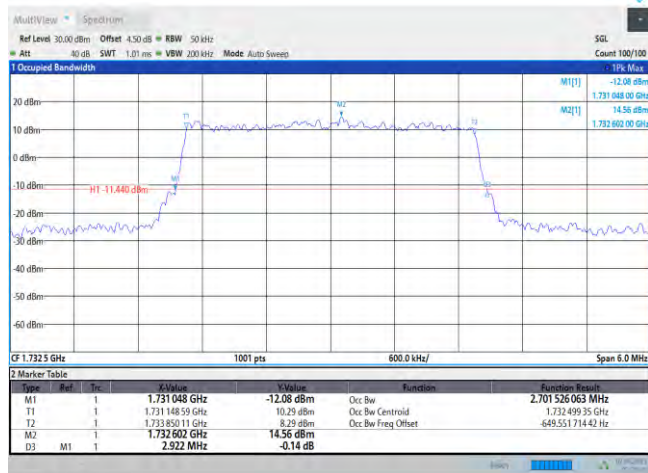
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Band4-3MHz-64QAM-19965-15RB#0



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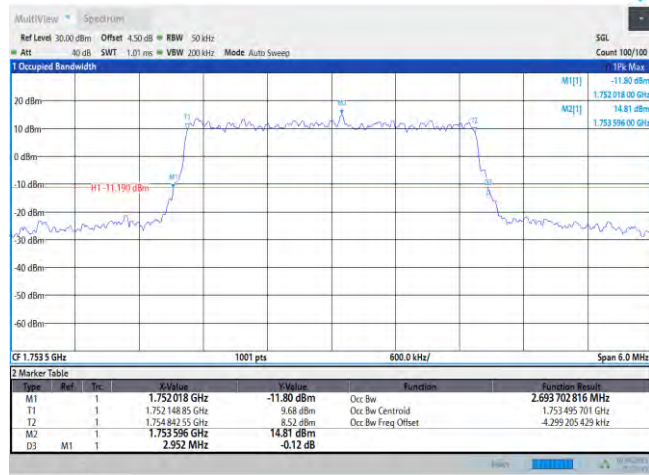
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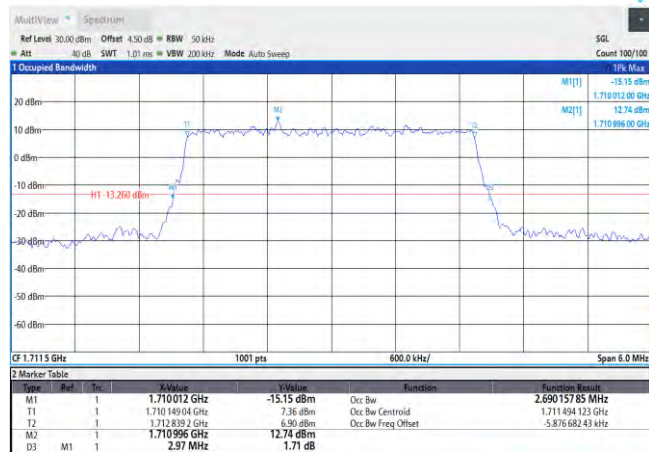
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Band4-3MHz-64QAM-20385-15RB#0



03:33:44 02.06.2023

Band4-3MHz-256QAM-19965-15RB#0



03:32:05 02.06.2023



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Band4-3MHz-256QAM-20175-15RB#0



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Band4-3MHz-256QAM-20385-15RB#0



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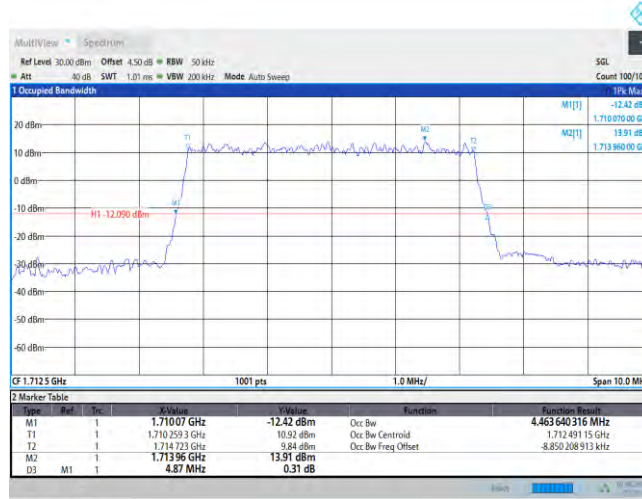
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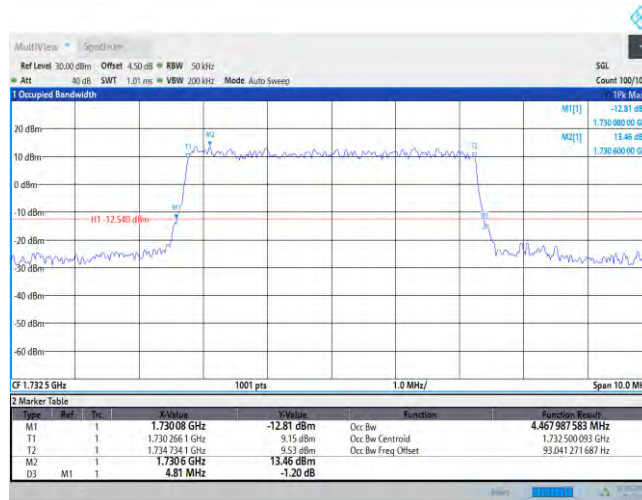
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Band4-5MHz-QPSK-19975-25RB#0



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Band4-5MHz-QPSK-20175-25RB#0



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Band4-5MHz-QPSK-20375-25RB#0



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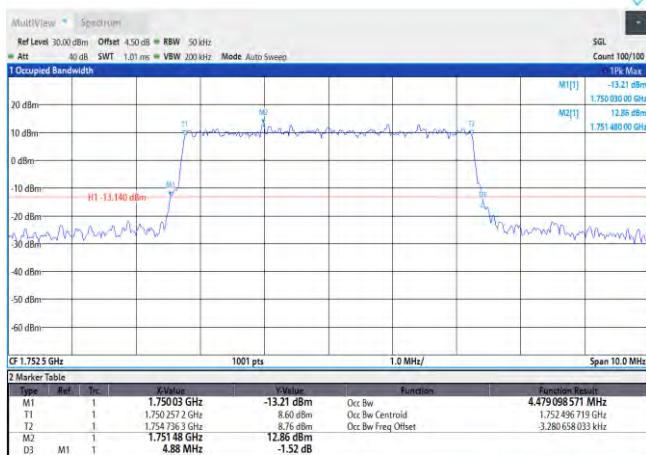
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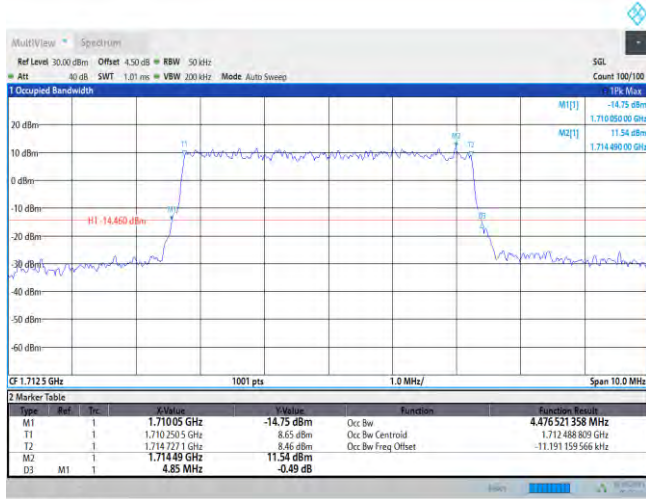
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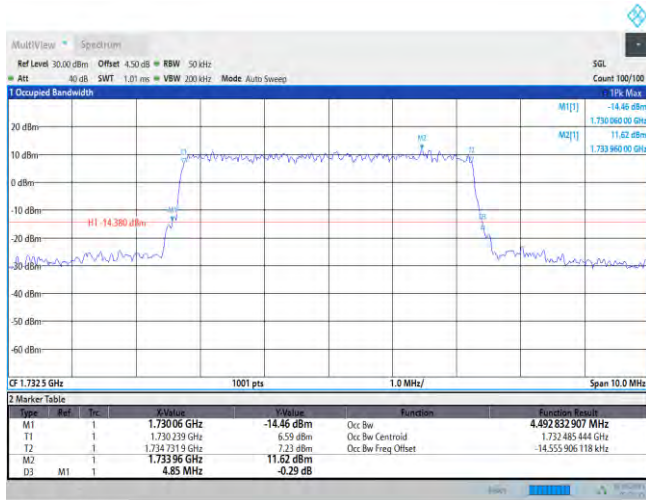
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Band4-5MHz-64QAM-19975-25RB#0



03:35:13 02.06.2023

Band4-5MHz-64QAM-20175-25RB#0



03:36:11 02.06.2023

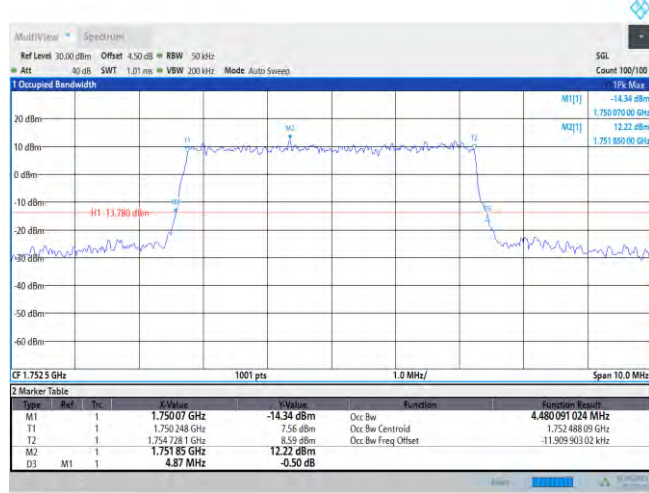


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Band4-5MHz-256QAM-19975-25RB#0



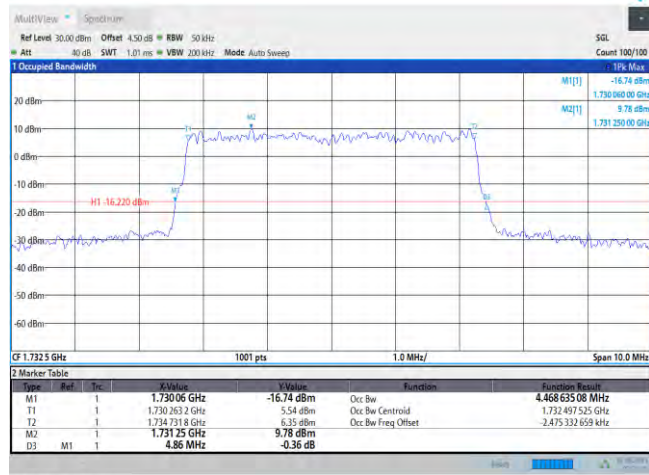
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Band4-5MHz-256QAM-20375-25RB#0



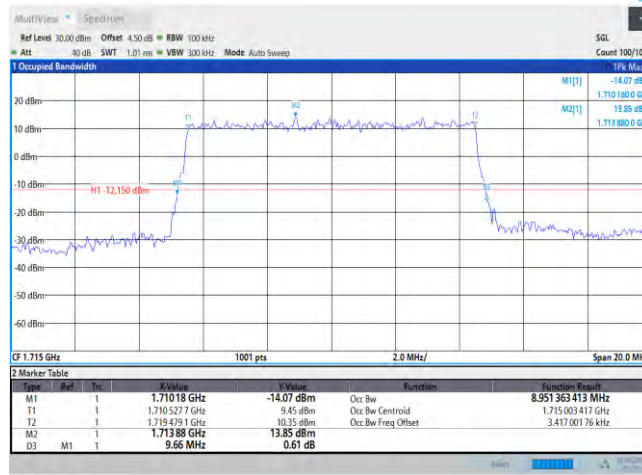
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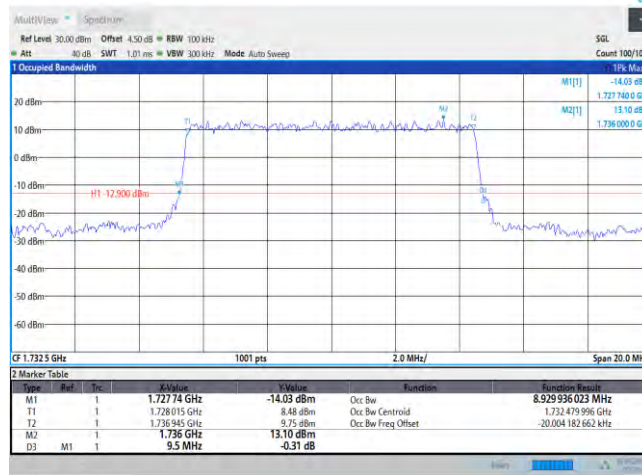
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Band4-10MHz-QPSK-20000-50RB#0



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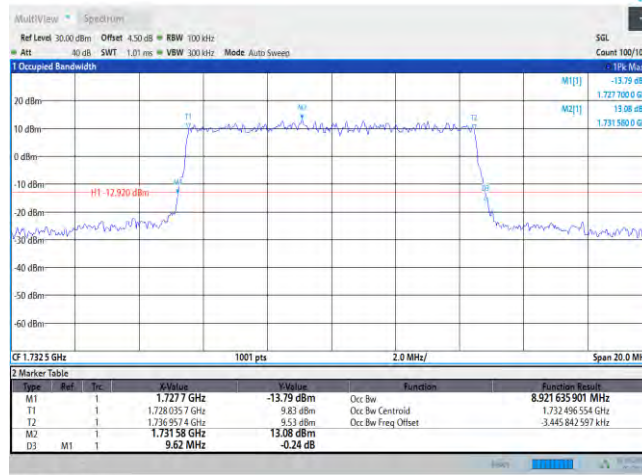
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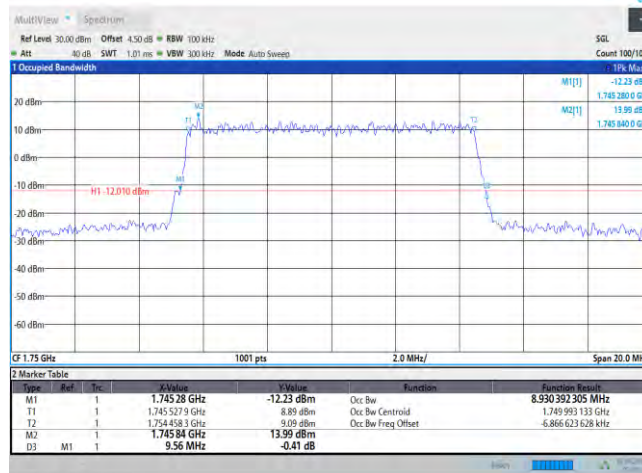
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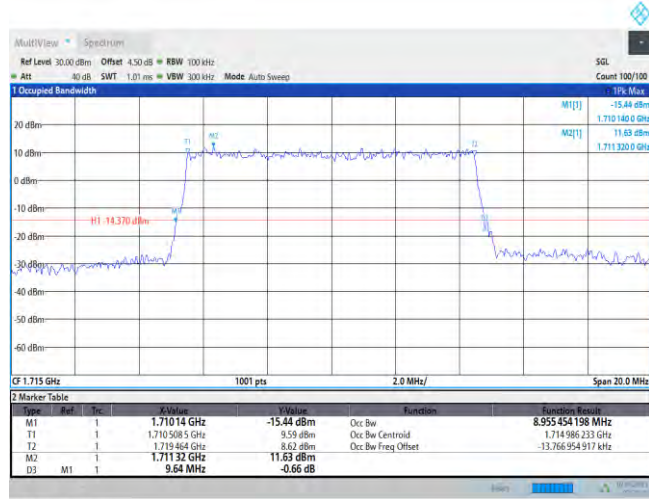
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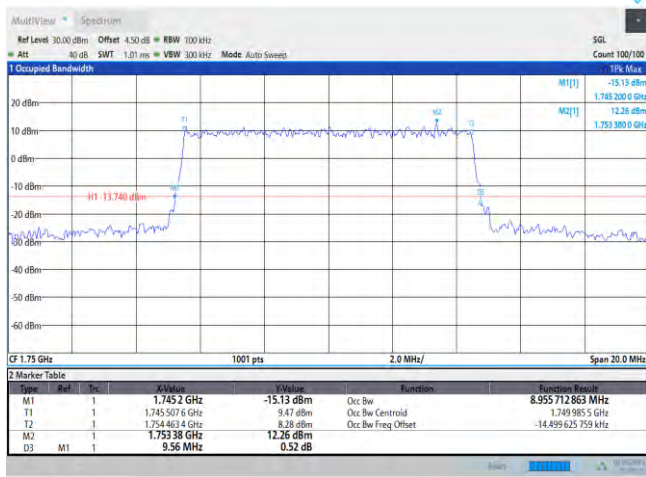
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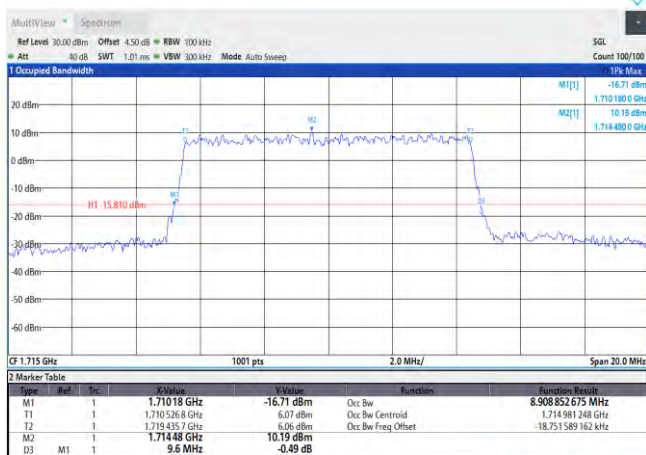
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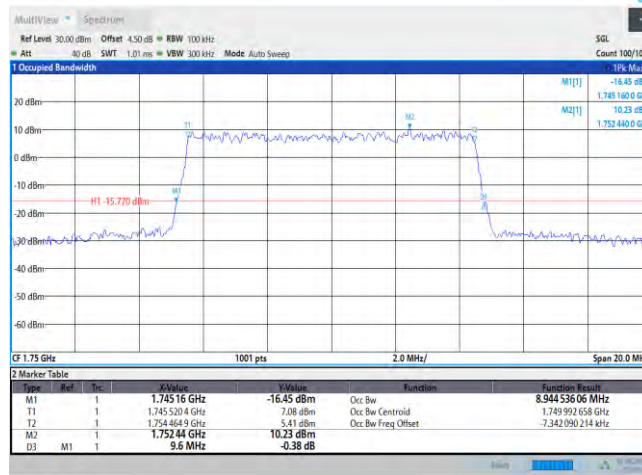
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Band4-10MHz-256QAM-20175-50RB#0



03:39:49 02.06.2023

Band4-10MHz-256QAM-20350-50RB#0



03:40:45 02.06.2023



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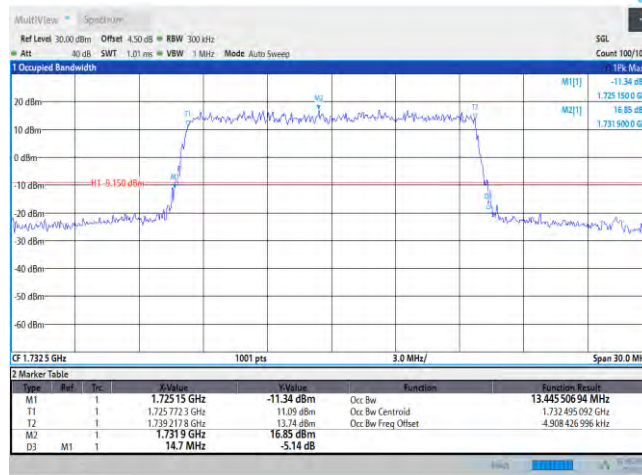


Band4-15MHz-QPSK-20025-75RB#0



03:41:32 02.06.2023

Band4-15MHz-QPSK-20175-75RB#0



03:42:28 02.06.2023

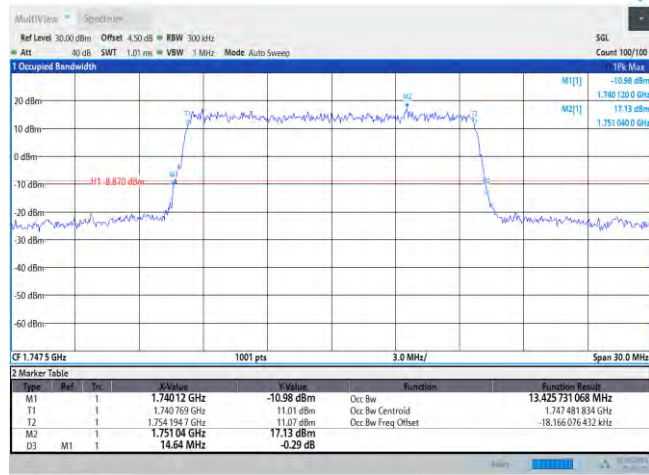


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Band4-15MHz-QPSK-20325-75RB#0



03:43:24 02.06.2023

Band4-15MHz-16QAM-20025-75RB#0



03:41:45 02.06.2023



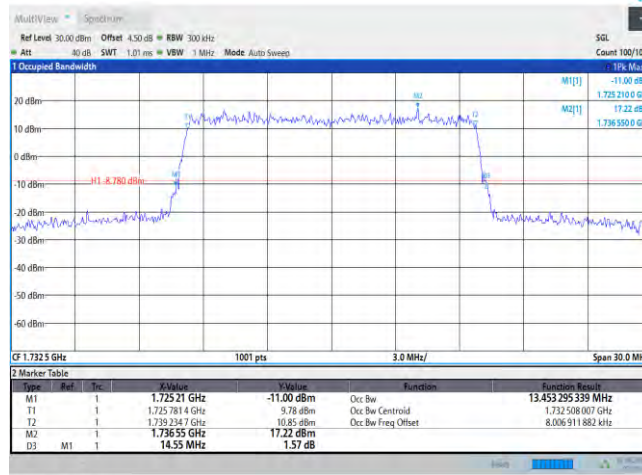
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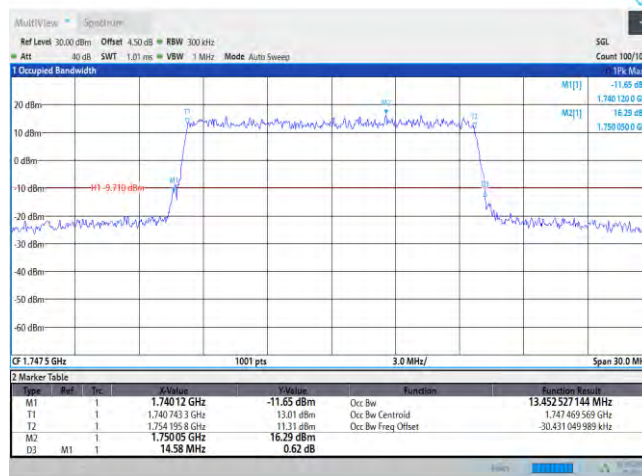
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Band4-15MHz-16QAM-20175-75RB#0



03:42:41 02.06.2023

Band4-15MHz-16QAM-20325-75RB#0



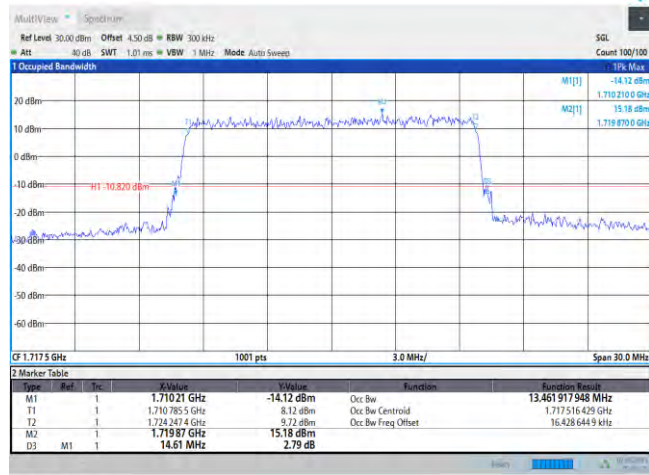
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Band4-15MHz-64QAM-20025-75RB#0



03:41:59 02.06.2023

Band4-15MHz-64QAM-20175-75RB#0



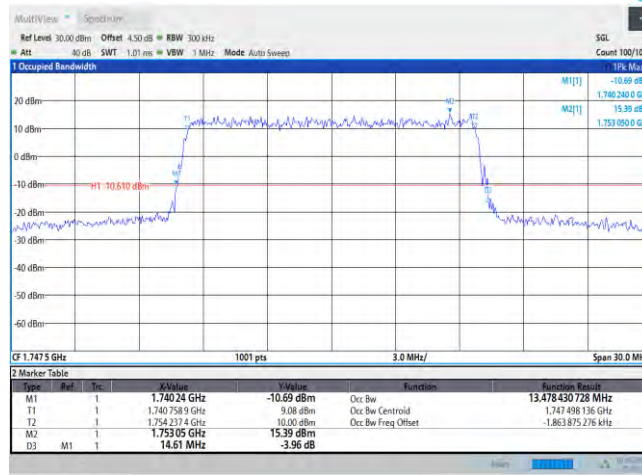
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Band4-15MHz-64QAM-20325-75RB#0



03:43:51 02.06.2023

Band4-15MHz-256QAM-20025-75RB#0



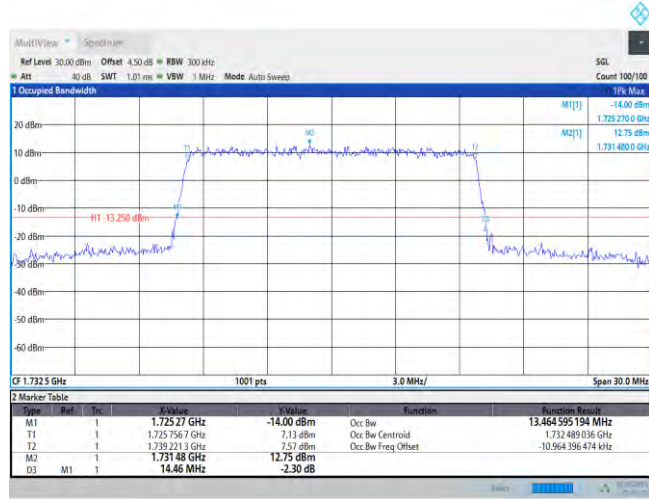
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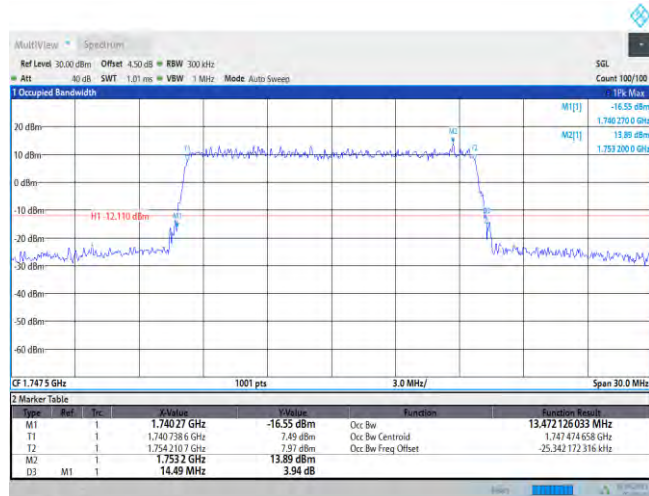
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Band4-15MHz-256QAM-20175-75RB#0



03:43:08 02.06.2023

Band4-15MHz-256QAM-20325-75RB#0



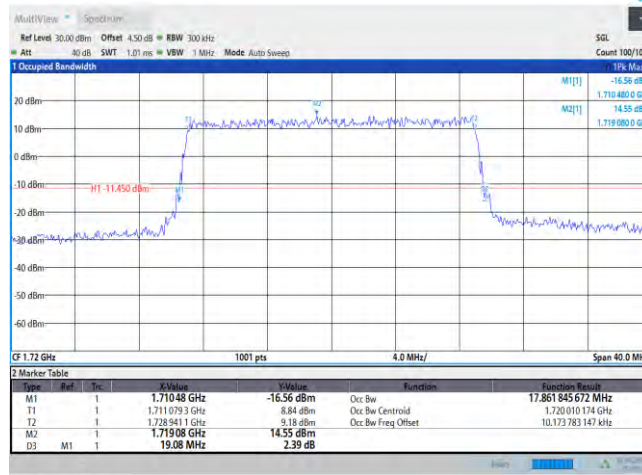
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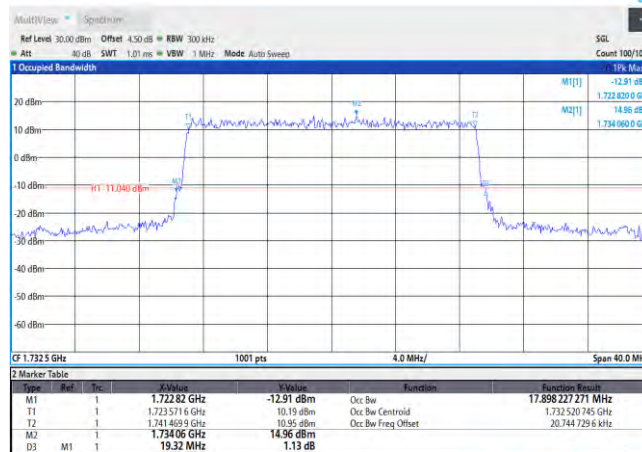
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Band4-20MHz-QPSK-20050-100RB#0



03:44:31 02.06.2023

Band4-20MHz-QPSK-20175-100RB#0



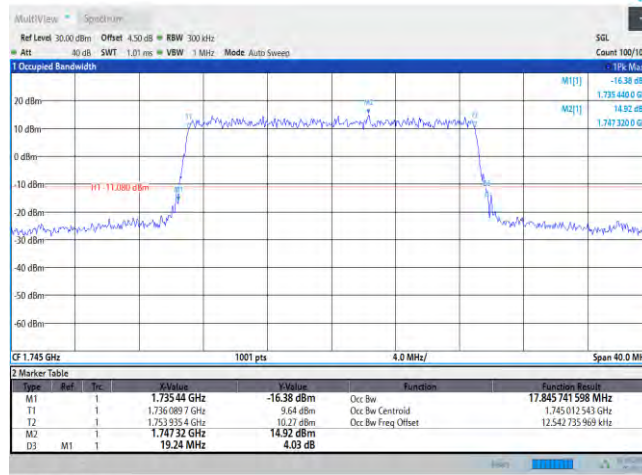
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Band4-20MHz-QPSK-20300-100RB#0



03:46:24 02.06.2023

Band4-20MHz-16QAM-20050-100RB#0



03:44:44 02.06.2023

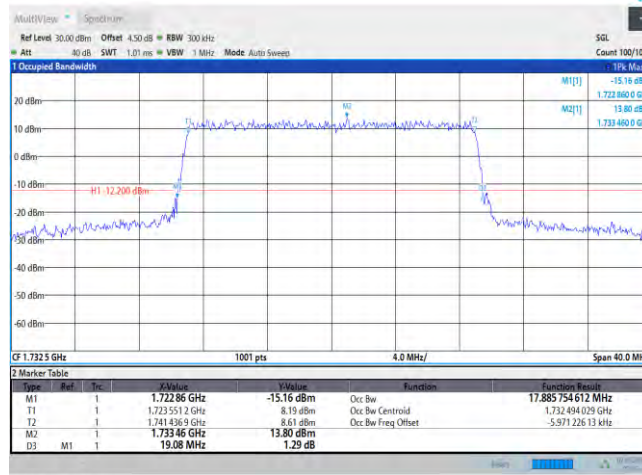


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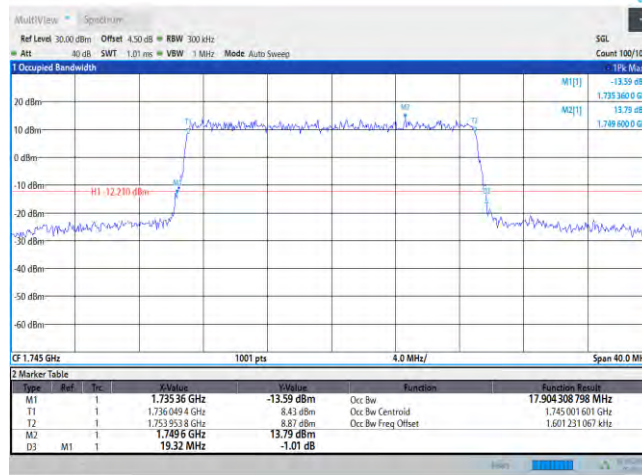


Band4-20MHz-16QAM-20175-100RB#0



03:45:41 02.06.2023

Band4-20MHz-16QAM-20300-100RB#0



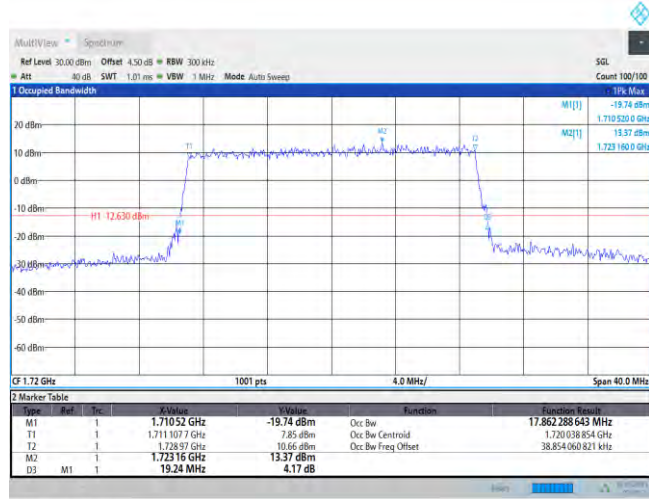
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Band4-20MHz-64QAM-20050-100RB#0



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Band4-20MHz-64QAM-20175-100RB#0



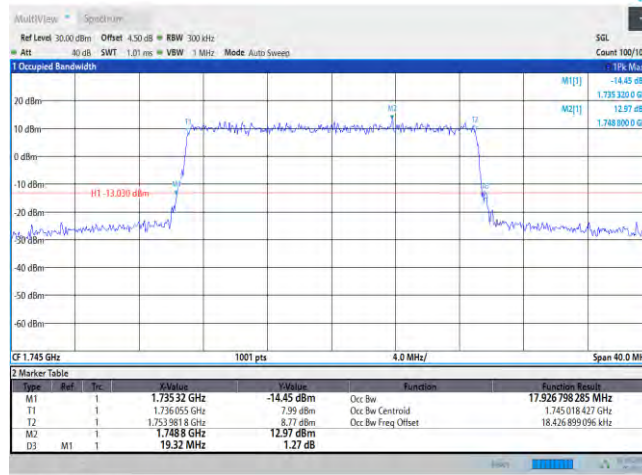
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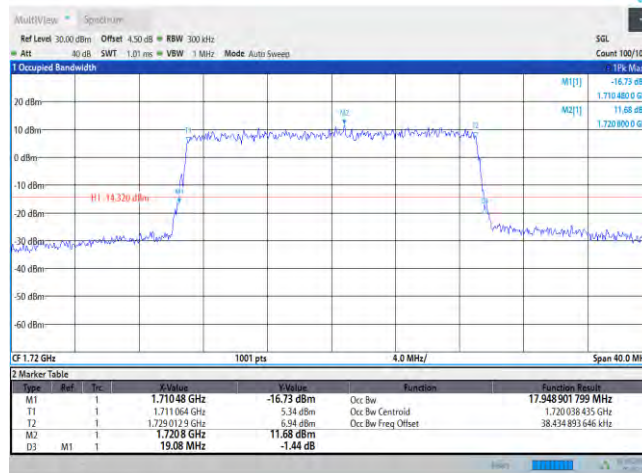
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Band4-20MHz-64QAM-20300-100RB#0



03:46:51 02.06.2023

Band4-20MHz-256QAM-20050-100RB#0



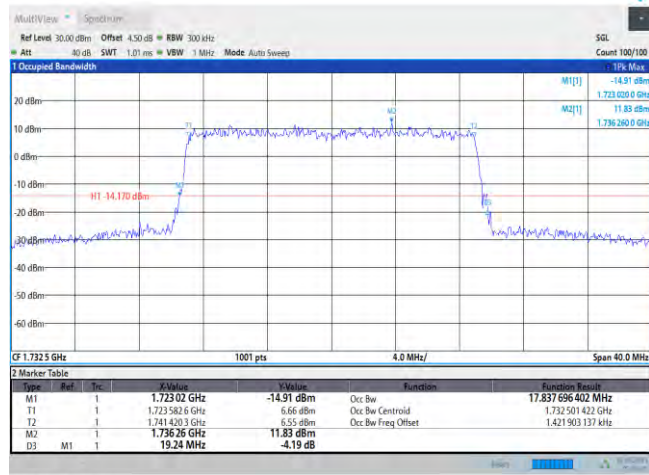
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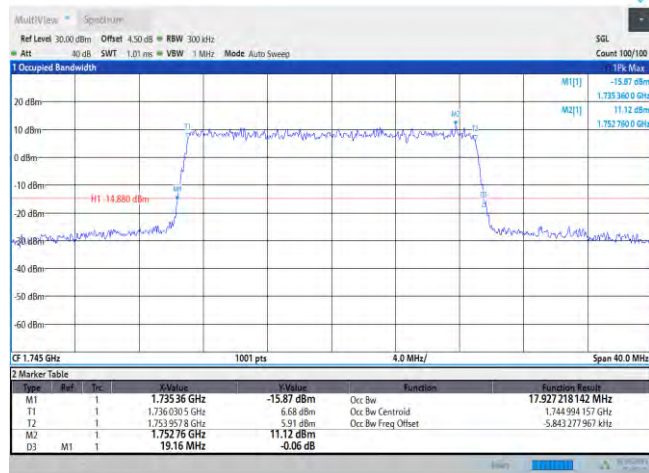
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Band4-20MHz-256QAM-20175-100RB#0



03:46:08 02.06.2023

Band4-20MHz-256QAM-20300-100RB#0



03:47:04 02.06.2023



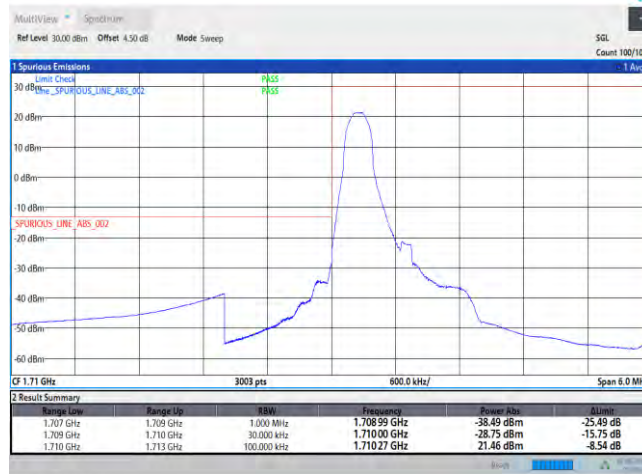
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## Band Edge

## Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



03:49:07 02.06.2023

Band4-1.4MHz-QPSK-19957-6RB#0



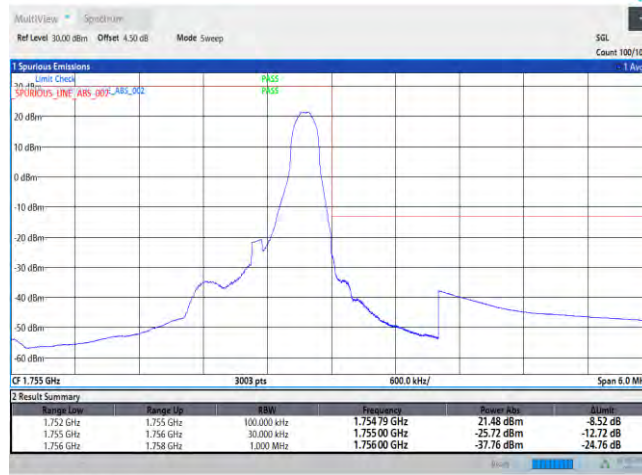
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Band4-1.4MHz-QPSK-20393-1RB#5



03:52:54 02.06.2023

Band4-1.4MHz-QPSK-20393-6RB#0



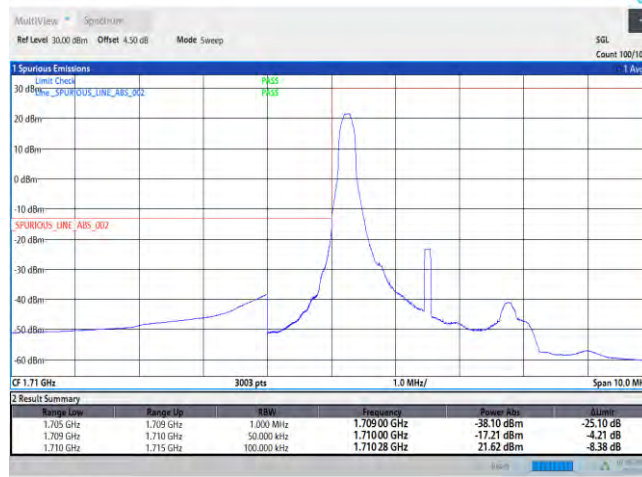
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Band4-3MHz-QPSK-19965-1RB#0



03:56:41 02.06.2023

Band4-3MHz-QPSK-19965-15RB#0



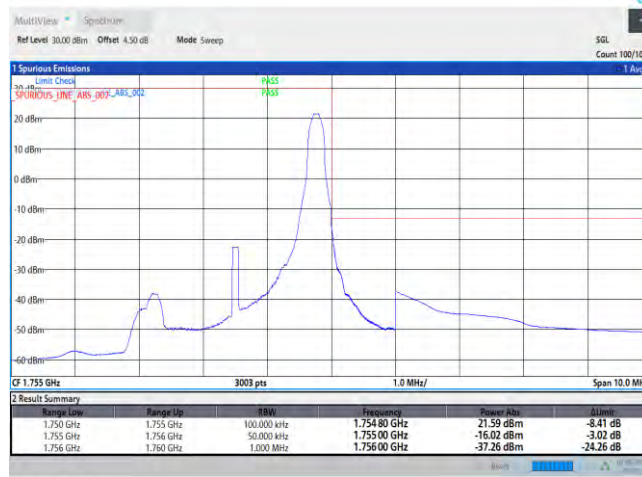
03:58:25 02.06.2023



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Band4-3MHz-QPSK-20385-1RB#14



04:00:29 02.06.2023

Band4-3MHz-QPSK-20385-15RB#0



04:02:13 02.06.2023

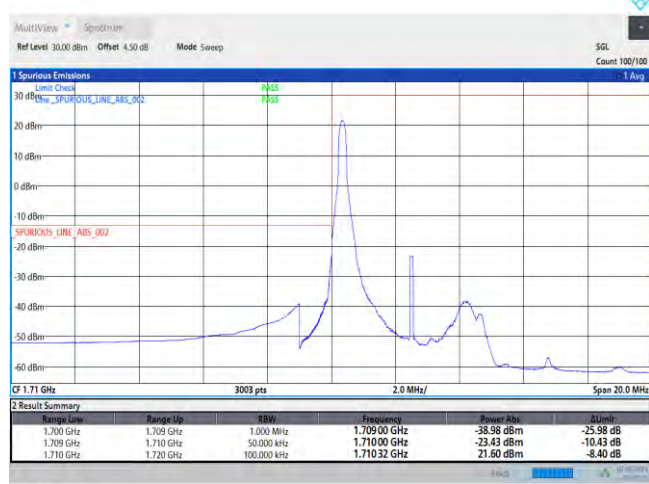


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Band4-5MHz-QPSK-19975-1RB#0



04:04:19 02.06.2023

Band4-5MHz-QPSK-19975-25RB#0



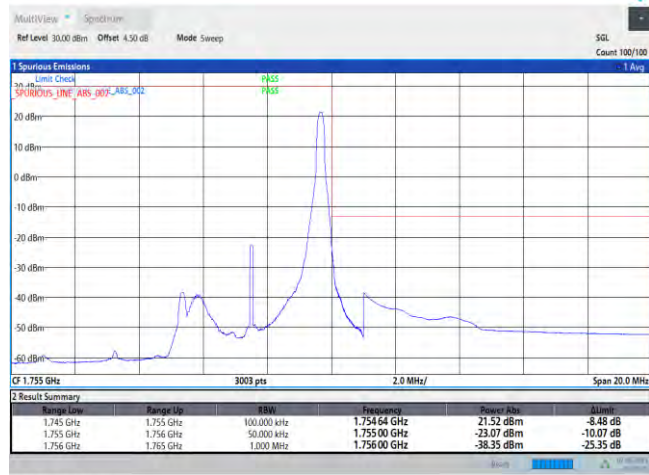
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Band4-5MHz-QPSK-20375-1RB#24



04:08:05 02.06.2023

Band4-5MHz-QPSK-20375-25RB#0



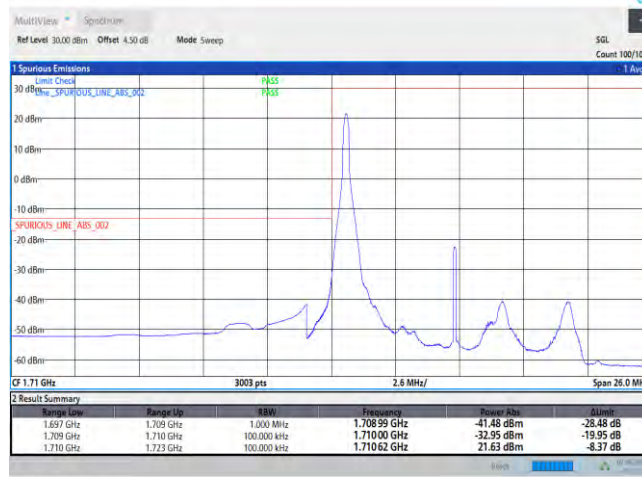
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Band4-10MHz-QPSK-20000-1RB#0



04:11:54 02.06.2023

Band4-10MHz-QPSK-20000-50RB#0



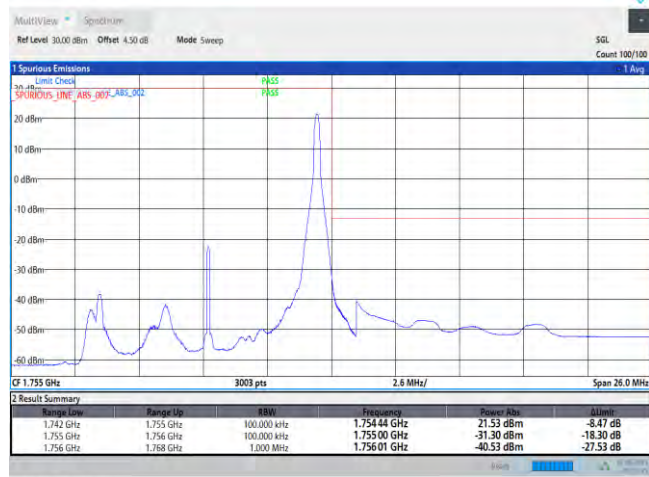
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Band4-10MHz-QPSK-20350-1RB#49



04:15:43 02.06.2023

Band4-10MHz-QPSK-20350-50RB#0



04:17:27 02.06.2023



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Band4-15MHz-QPSK-20025-1RB#0



04:19:30 02.06.2023

Band4-15MHz-QPSK-20025-75RB#0



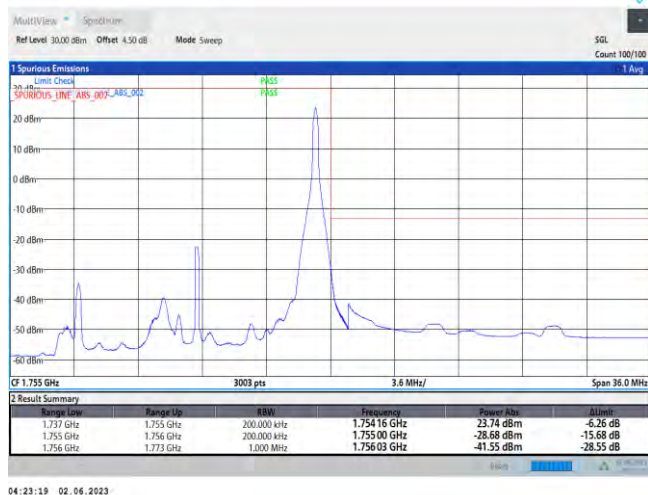
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Band4-15MHz-QPSK-20325-1RB#74



04:23:19 02.06.2023

Band4-15MHz-QPSK-20325-75RB#0



04:25:03 02.06.2023

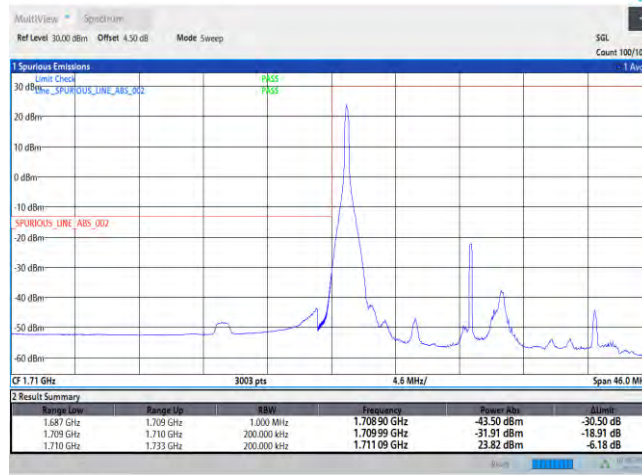


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Band4-20MHz-QPSK-20050-1RB#0



04:27:06 02.06.2023

Band4-20MHz-QPSK-20050-100RB#0



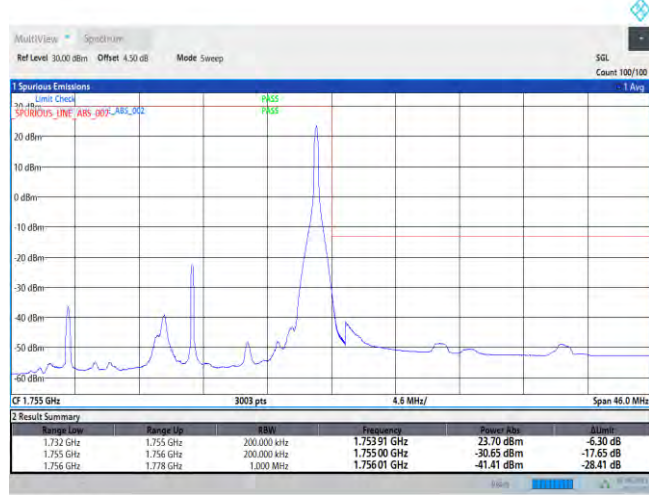
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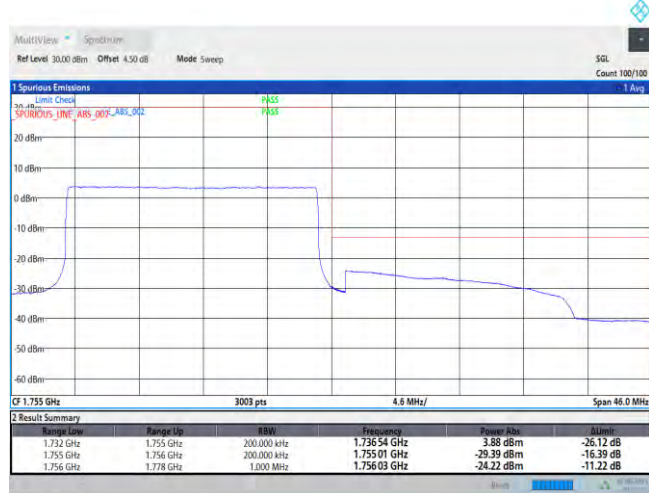
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Band4-20MHz-QPSK-20300-1RB#99



04:31:09 02.06.2023

Band4-20MHz-QPSK-20300-100RB#0



04:32:53 02.06.2023



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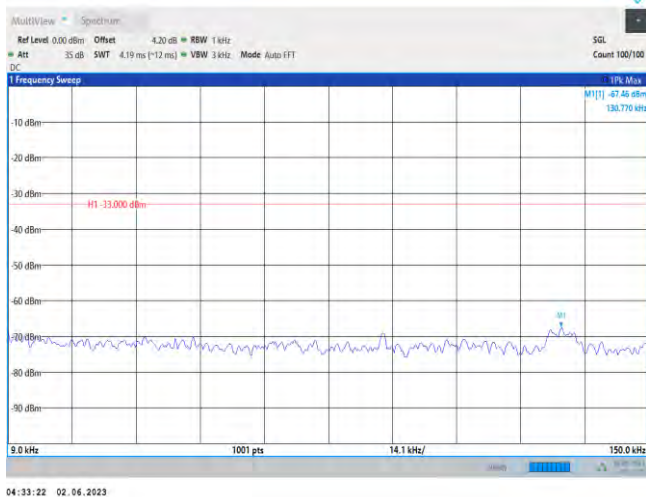
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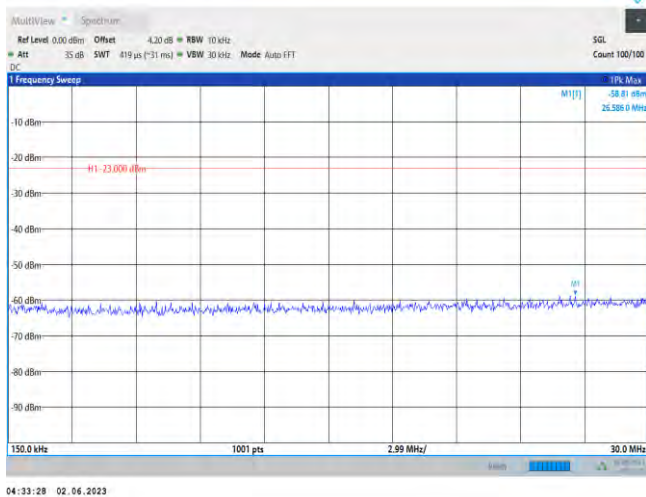
## Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



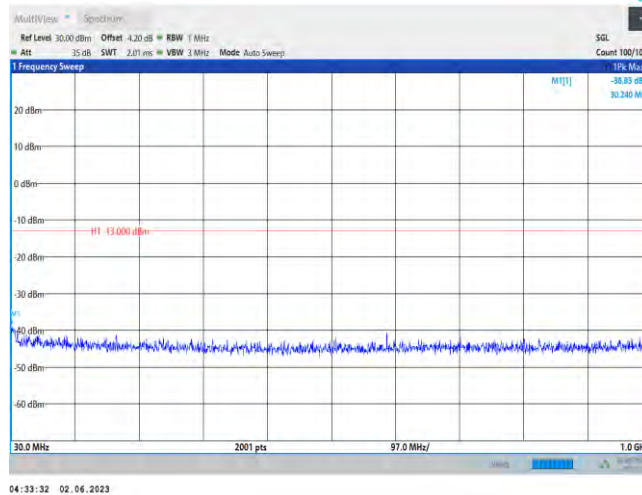
Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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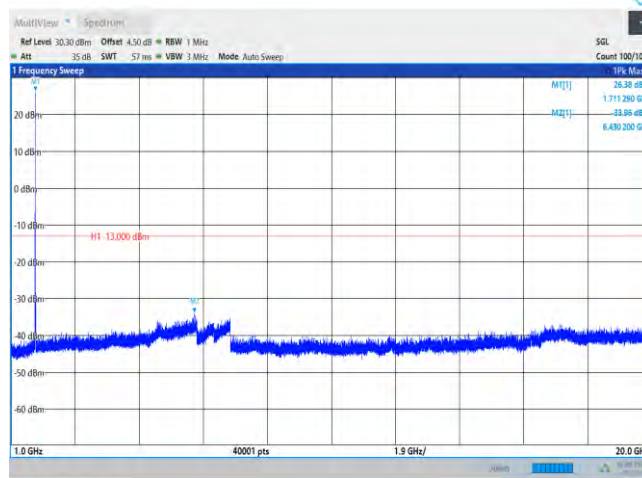
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



04:33:32 02.06.2023

Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



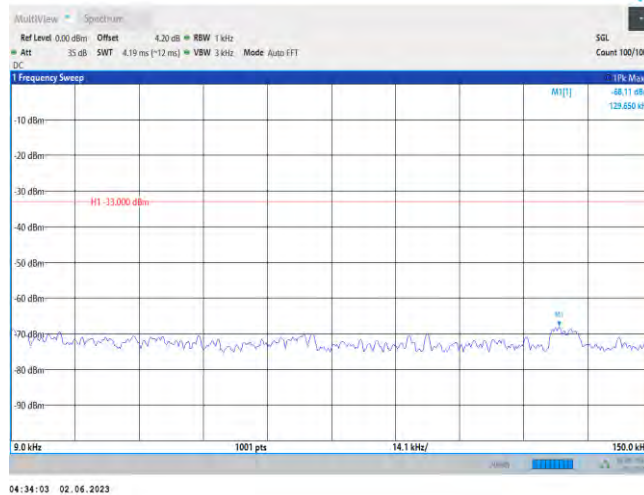
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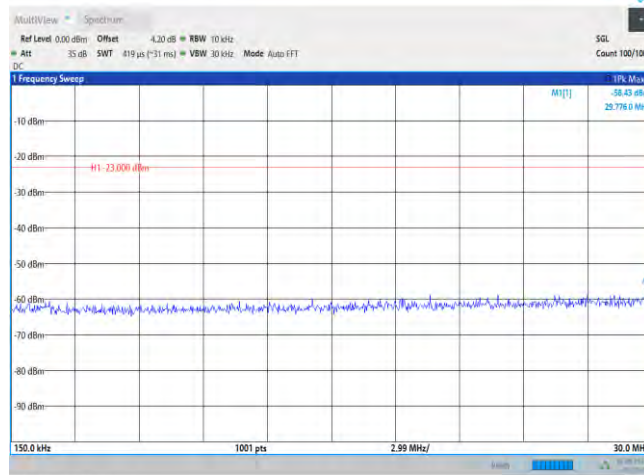
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



04:34:03 02.06.2023

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



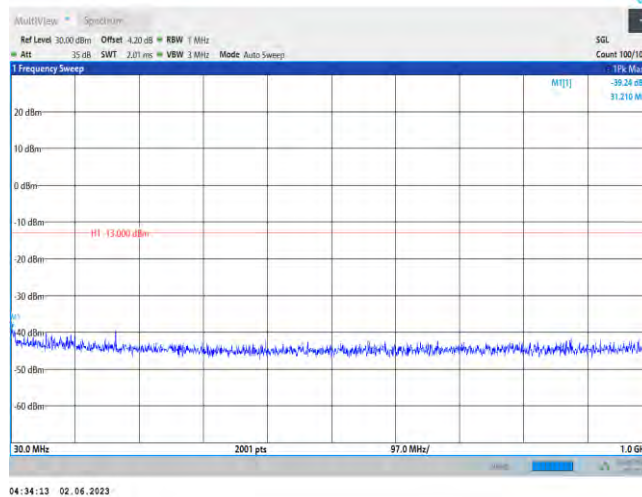
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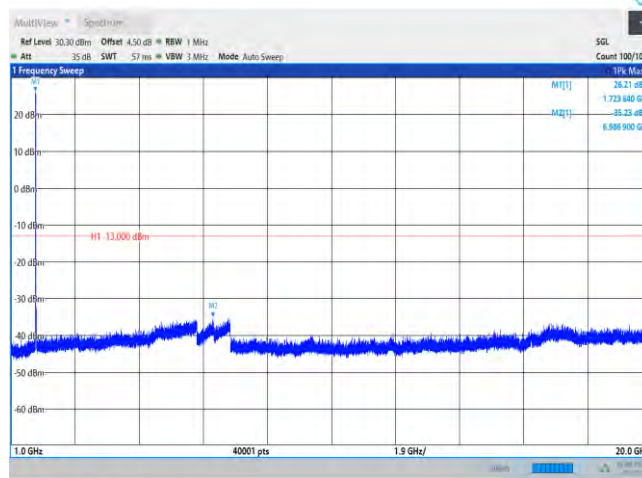
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



04:34:13 02.06.2023

Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



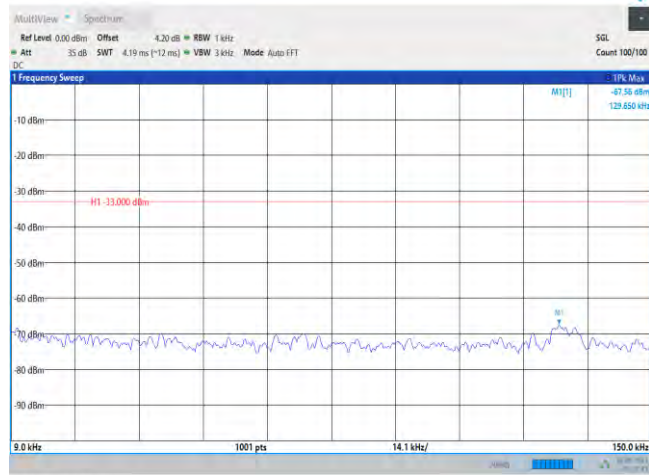
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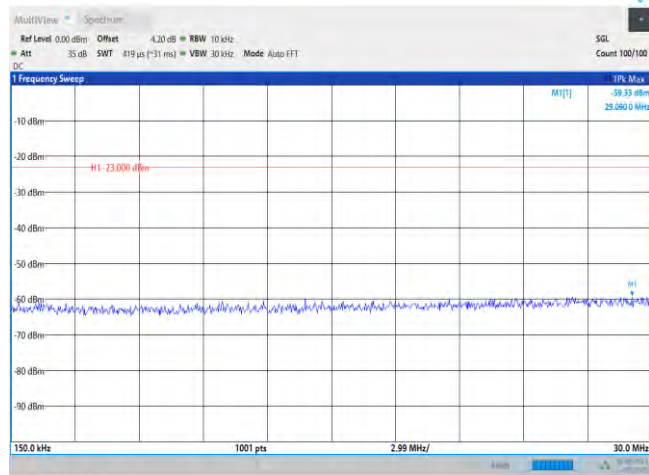
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



04:34:44 02.06.2023

Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



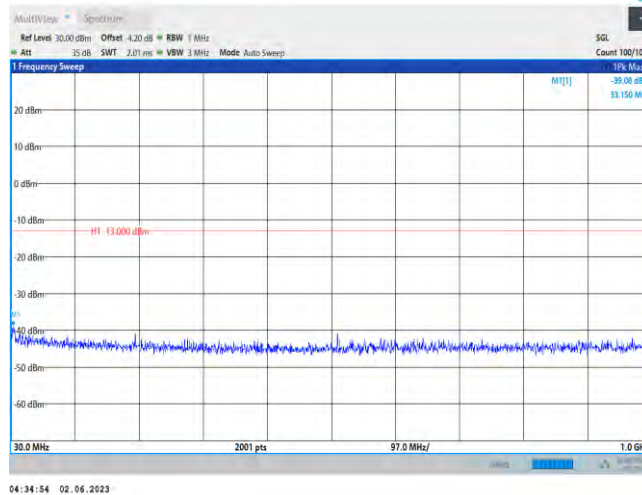
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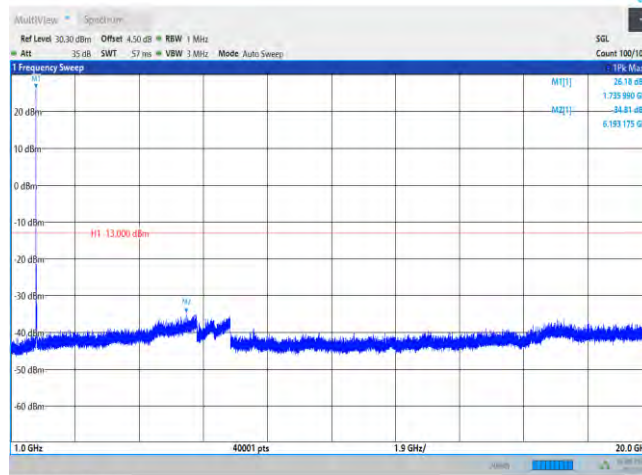
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



04:34:54 02.06.2023

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_20MHz \_ TM1

Test Channel = LOW ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.14	-46.28	29.45	-70.95	-13.00	57.95	147	360	Horizontal
2	5133.2700	39.56	-45.34	32.95	-68.09	-13.00	55.09	155	357	Horizontal
3	6844.3600	39.66	-44.14	35.89	-63.85	-13.00	50.85	184	360	Horizontal
4	8555.4500	36.34	-41.46	37.66	-62.72	-13.00	49.72	188	255	Horizontal
5	10266.5400	32.80	-39.23	38.83	-62.86	-13.00	49.86	185	29	Horizontal
6	11977.6300	28.36	-37.51	38.95	-65.47	-13.00	52.47	196	44	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.44	-46.28	29.45	-70.65	-13.00	57.65	144	30	Vertical
2	5133.2700	39.05	-45.34	32.95	-68.60	-13.00	55.60	152	77	Vertical
3	6844.3600	39.64	-44.14	35.89	-63.87	-13.00	50.87	143	242	Vertical
4	8555.4500	36.39	-41.46	37.66	-62.67	-13.00	49.67	165	196	Vertical
5	10266.5400	32.56	-39.23	38.83	-63.10	-13.00	50.10	192	0	Vertical
6	11977.6300	28.47	-37.51	38.95	-65.36	-13.00	52.36	170	182	Vertical



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Test Band = LTE Band 4\_20MHz \_ TM1

Test Channel = MID ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	42.71	-46.27	29.47	-69.35	-13.00	56.35	142	210	Horizontal
2	5170.7700	40.21	-45.31	32.97	-67.38	-13.00	54.38	165	270	Horizontal
3	6894.3600	39.28	-44.10	35.95	-64.13	-13.00	51.13	129	14	Horizontal
4	8617.9500	36.74	-41.40	37.78	-62.14	-13.00	49.14	198	121	Horizontal
5	10341.5400	33.17	-39.06	38.85	-62.30	-13.00	49.30	174	121	Horizontal
6	12065.1300	29.19	-37.44	39.02	-64.49	-13.00	51.49	158	4	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.84	-46.27	29.47	-68.22	-13.00	55.22	244	121	Vertical
2	5170.7700	40.17	-45.31	32.97	-67.42	-13.00	54.42	123	166	Vertical
3	6894.3600	39.21	-44.10	35.95	-64.20	-13.00	51.20	261	61	Vertical
4	8617.9500	36.78	-41.40	37.78	-62.10	-13.00	49.10	185	107	Vertical
5	10341.5400	33.43	-39.06	38.85	-62.04	-13.00	49.04	175	8	Vertical
6	12065.1300	29.61	-37.44	39.02	-64.07	-13.00	51.07	146	357	Vertical



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Test Band = LTE Band 4\_20MHz \_ TM1

Test Channel = HIGH ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.83	-46.27	29.50	-69.20	-13.00	56.20	266	225	Horizontal
2	5208.2700	39.88	-45.26	32.98	-67.66	-13.00	54.66	142	135	Horizontal
3	6944.3600	38.77	-43.85	36.01	-64.33	-13.00	51.33	159	352	Horizontal
4	8680.4500	36.55	-41.62	37.88	-62.45	-13.00	49.45	185	210	Horizontal
5	10416.5400	32.22	-38.97	38.88	-63.14	-13.00	50.14	128	210	Horizontal
6	12152.6300	28.73	-37.42	39.09	-64.86	-13.00	51.86	173	357	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.69	-46.27	29.50	-69.34	-13.00	56.34	100	356	Vertical
2	5208.2700	40.72	-45.26	32.98	-66.82	-13.00	53.82	253	286	Vertical
3	6944.3600	39.28	-43.85	36.01	-63.82	-13.00	50.82	145	356	Vertical
4	8680.4500	36.76	-41.62	37.88	-62.24	-13.00	49.24	126	329	Vertical
5	10416.5400	31.44	-38.97	38.88	-63.92	-13.00	50.92	259	269	Vertical
6	12152.6300	29.26	-37.42	39.09	-64.33	-13.00	51.33	192	344	Vertical



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Test Band = LTE 4A\_5A\_TM1  
 Test Channel = LOW

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	29.50	-24.82	25.27	-65.30	-13.00	52.30	145	47	Horizontal
2	2473.7700	29.55	-23.55	27.23	-62.03	-13.00	49.03	187	77	Horizontal
3	3298.3600	43.35	-46.45	28.48	-69.88	-13.00	56.88	132	253	Horizontal
4	3422.1800	42.13	-46.28	28.55	-70.85	-13.00	57.85	122	352	Horizontal
5	5133.2700	39.89	-45.34	31.72	-68.99	-13.00	55.99	158	225	Horizontal
6	6844.3600	39.82	-44.14	34.92	-64.66	-13.00	51.66	166	359	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	28.58	-24.82	25.27	-66.22	-13.00	53.22	112	76	Vertical
2	2473.7700	29.27	-23.55	27.23	-62.31	-13.00	49.31	147	244	Vertical
3	3298.3600	43.42	-46.45	28.48	-69.81	-13.00	56.81	158	209	Vertical
4	3422.1800	42.66	-46.28	28.55	-70.32	-13.00	57.32	162	149	Vertical
5	5133.2700	39.85	-45.34	31.72	-69.03	-13.00	56.03	132	104	Vertical
6	6844.3600	40.41	-44.14	34.92	-64.07	-13.00	51.07	252	360	Vertical



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Test Band = LTE 4A\_5A\_TM1  
 Test Channel = MID

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	29.57	-24.78	25.30	-65.18	-13.00	52.18	148	86	Horizontal
2	2496.2700	29.51	-23.54	27.29	-62.00	-13.00	49.00	154	86	Horizontal
3	3328.3600	43.17	-46.41	28.50	-70.00	-13.00	57.00	223	360	Horizontal
4	3447.1800	42.86	-46.27	28.57	-70.10	-13.00	57.10	256	344	Horizontal
5	5170.7700	40.46	-45.31	31.81	-68.29	-13.00	55.29	298	134	Horizontal
6	6894.3600	39.70	-44.10	35.01	-64.65	-13.00	51.65	132	74	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	28.95	-24.78	25.30	-65.80	-13.00	52.80	282	341	Vertical
2	2496.2700	29.12	-23.54	27.29	-62.39	-13.00	49.39	147	87	Vertical
3	3328.3600	43.57	-46.41	28.50	-69.60	-13.00	56.60	163	359	Vertical
4	3447.1800	43.35	-46.27	28.57	-69.61	-13.00	56.61	154	30	Vertical
5	5170.7700	40.29	-45.31	31.81	-68.46	-13.00	55.46	121	269	Vertical
6	6894.3600	39.43	-44.10	35.01	-64.92	-13.00	51.92	223	352	Vertical



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Test Band = LTE 4A\_5A\_TM1

Test Channel = HIGH

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	29.38	-24.75	25.32	-65.31	-13.00	52.31	221	87	Horizontal
2	2518.7700	29.41	-23.40	27.34	-61.91	-13.00	48.91	148	97	Horizontal
3	3358.3600	42.86	-46.35	28.52	-70.24	-13.00	57.24	163	164	Horizontal
4	3472.1800	42.88	-46.27	28.58	-70.06	-13.00	57.06	187	43	Horizontal
5	5208.2700	40.85	-45.26	31.90	-67.77	-13.00	54.77	123	352	Horizontal
6	6944.3600	39.32	-43.85	35.10	-64.69	-13.00	51.69	157	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	28.63	-24.75	25.32	-66.06	-13.00	53.06	145	85	Vertical
2	2518.7700	29.07	-23.40	27.34	-62.25	-13.00	49.25	187	331	Vertical
3	3358.3600	43.24	-46.35	28.52	-69.86	-13.00	56.86	169	135	Vertical
4	3472.1800	43.61	-46.27	28.58	-69.33	-13.00	56.33	237	360	Vertical
5	5208.2700	41.48	-45.26	31.90	-67.14	-13.00	54.14	284	242	Vertical
6	6944.3600	39.40	-43.85	35.10	-64.61	-13.00	51.61	214	360	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = LOW

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	43.60	-46.28	28.55	-69.38	-25.00	44.38	110	199	Horizontal
2	5002.1800	41.99	-45.63	31.41	-67.50	-25.00	42.50	187	307	Horizontal
3	5133.2700	41.28	-45.34	31.72	-67.60	-25.00	42.60	154	270	Horizontal
4	6844.3600	40.53	-44.14	34.92	-63.95	-25.00	38.95	251	109	Horizontal
5	7503.2700	39.26	-43.13	36.60	-62.53	-25.00	37.53	239	181	Horizontal
6	10004.3600	35.10	-39.23	38.20	-61.19	-25.00	36.19	282	236	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	43.29	-46.28	28.55	-69.69	-25.00	44.69	137	36	Vertical
2	5002.1800	41.88	-45.63	31.41	-67.61	-25.00	42.61	148	4	Vertical
3	5133.2700	40.83	-45.34	31.72	-68.05	-25.00	43.05	136	198	Vertical
4	6844.3600	40.51	-44.14	34.92	-63.97	-25.00	38.97	295	198	Vertical
5	7503.2700	39.98	-43.13	36.60	-61.81	-25.00	36.81	163	179	Vertical
6	10004.3600	36.03	-39.23	38.20	-60.26	-25.00	35.26	224	342	Vertical



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**Test Band = LTE 4A\_7A\_TM1**
**Test Channel = MID**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.44	-46.27	28.57	-69.52	-25.00	44.52	118	344	Horizontal
2	5052.1800	41.44	-45.50	31.53	-67.79	-25.00	42.79	147	181	Horizontal
3	5170.7700	40.49	-45.31	31.81	-68.27	-25.00	43.27	159	272	Horizontal
4	6894.3600	40.27	-44.10	35.01	-64.08	-25.00	39.08	162	163	Horizontal
5	7578.2700	40.71	-42.98	36.63	-60.89	-25.00	35.89	152	163	Horizontal
6	10104.3600	35.85	-39.14	38.25	-60.29	-25.00	35.29	255	37	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.36	-46.27	28.57	-69.60	-25.00	44.60	172	72	Vertical
2	5052.1800	42.14	-45.50	31.53	-67.09	-25.00	42.09	169	269	Vertical
3	5170.7700	42.38	-45.31	31.81	-66.38	-25.00	41.38	232	251	Vertical
4	6894.3600	39.90	-44.10	35.01	-64.45	-25.00	39.45	245	215	Vertical
5	7578.2700	39.20	-42.98	36.63	-62.40	-25.00	37.40	236	359	Vertical
6	10104.3600	34.89	-39.14	38.25	-61.25	-25.00	36.25	158	352	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = HIGH

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.73	-46.27	28.58	-69.21	-25.00	44.21	121	0	Horizontal
2	5102.1800	41.03	-45.37	31.65	-67.95	-25.00	42.95	154	7	Horizontal
3	5208.2700	42.04	-45.26	31.90	-66.58	-25.00	41.58	187	7	Horizontal
4	6944.3600	40.51	-43.86	35.10	-63.51	-25.00	38.51	152	7	Horizontal
5	7653.2700	39.89	-43.03	36.66	-61.74	-25.00	36.74	236	252	Horizontal
6	10204.3600	35.22	-39.48	38.30	-61.22	-25.00	36.22	259	234	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.90	-46.27	28.58	-69.04	-25.00	44.04	112	4	Vertical
2	5102.1800	40.98	-45.37	31.65	-68.00	-25.00	43.00	145	36	Vertical
3	5208.2700	42.16	-45.26	31.90	-66.46	-25.00	41.46	187	108	Vertical
4	6944.3600	40.60	-43.86	35.10	-63.42	-25.00	38.42	136	234	Vertical
5	7653.2700	39.37	-43.03	36.66	-62.26	-25.00	37.26	258	126	Vertical
6	10204.3600	34.22	-39.48	38.30	-62.22	-25.00	37.22	199	108	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.30	-0.001328	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.80	-0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.90	-0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-2.50	-0.001443	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.50	-0.000289	PASS

---End of Attachment---



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