



# Appendix B

## E-UTRA Band 66



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	22.71	22.01	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.71	22.01	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.99	22.29	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	22.88	22.18	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	22.76	22.06	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	22.62	21.92	30.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.92	21.22	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.80	22.10	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.60	21.90	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	22.65	21.95	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	22.53	21.83	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	22.97	22.27	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	22.65	21.95	30.00	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.60	20.90	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.81	22.11	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.85	22.15	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.89	22.19	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	22.61	21.91	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	22.98	22.28	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	22.51	21.81	30.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.80	21.10	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	21.78	21.08	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.69	20.99	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	21.74	21.04	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	21.78	21.08	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	21.80	21.10	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	21.51	20.81	30.00	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.91	20.21	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.87	21.17	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.65	20.95	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.74	21.04	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	21.65	20.95	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	21.62	20.92	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	21.74	21.04	30.00	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.87	20.17	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.87	21.17	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.54	20.84	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.87	21.17	30.00	PASS



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Band66	1.4MHz	16QAM	132665	3RB#3	21.76	21.06	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	21.51	20.81	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	21.93	21.23	30.00	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.63	19.93	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#14	22.82	22.12	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.87	22.17	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.74	22.04	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.66	20.96	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.56	20.86	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.78	21.08	30.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.68	20.98	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.51	21.81	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.63	21.93	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.89	22.19	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#7	21.72	21.02	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#0	21.63	20.93	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#4	21.92	21.22	30.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.84	21.14	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.97	22.27	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.88	22.18	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.64	21.94	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#4	21.67	20.97	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#0	21.94	21.24	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#7	21.61	20.91	30.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.98	21.28	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.57	20.87	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.74	21.04	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.66	20.96	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#0	20.78	20.08	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#7	20.76	20.06	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#4	20.73	20.03	30.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.67	19.97	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.77	21.07	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.88	21.18	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#0	21.63	20.93	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#4	20.67	19.97	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#0	20.86	20.16	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	20.92	20.22	30.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.74	20.04	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.80	21.10	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.94	21.24	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.89	21.19	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	20.91	20.21	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#7	20.85	20.15	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#4	20.79	20.09	30.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.90	20.20	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.93	22.23	30.00	PASS



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Band66	5MHz	QPSK	131997	1RB#12	22.70	22.00	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.53	21.83	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#6	21.61	20.91	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.51	20.81	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#13	21.84	21.14	30.00	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.90	21.20	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.54	21.84	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.73	22.03	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.77	22.07	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.71	21.01	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.61	20.91	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#13	21.78	21.08	30.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.74	21.04	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.71	22.01	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.65	21.95	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.88	22.18	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#0	21.63	20.93	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#6	21.69	20.99	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#13	21.98	21.28	30.00	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.81	21.11	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.91	21.21	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.97	21.27	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.58	20.88	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#13	20.58	19.88	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#0	20.89	20.19	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#6	20.73	20.03	30.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.82	20.12	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.91	21.21	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.50	20.80	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.81	21.11	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#0	20.62	19.92	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#13	20.94	20.24	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#6	20.62	19.92	30.00	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.79	20.09	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.61	20.91	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.80	21.10	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.58	20.88	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#0	20.92	20.22	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	20.53	19.83	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#13	20.56	19.86	30.00	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.67	19.97	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.53	21.83	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.89	22.19	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.83	22.13	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.78	21.08	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.80	21.10	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.79	21.09	30.00	PASS



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Band66	10MHz	QPSK	132022	50RB#0	21.56	20.86	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.87	22.17	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.75	22.05	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.94	22.24	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.65	20.95	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.60	20.90	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.69	20.99	30.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.82	21.12	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.92	22.22	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.53	21.83	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.95	22.25	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#0	21.87	21.17	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#25	21.66	20.96	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#12	21.78	21.08	30.00	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.91	21.21	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.85	21.15	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.59	20.89	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.81	21.11	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#0	20.96	20.26	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.85	20.15	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#25	20.78	20.08	30.00	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.66	19.96	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.78	21.08	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.68	20.98	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.77	21.07	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#25	20.83	20.13	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#12	20.86	20.16	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.91	20.21	30.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.54	19.84	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.91	21.21	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.94	21.24	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.50	20.80	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#25	20.67	19.97	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#12	20.53	19.83	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#0	20.97	20.27	30.00	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.73	20.03	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.61	21.91	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.99	22.29	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.91	22.21	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#39	21.70	21.00	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#18	21.80	21.10	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#0	21.75	21.05	30.00	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.63	20.93	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.87	22.17	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.54	21.84	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.96	22.26	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#0	21.52	20.82	30.00	PASS



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Band66	15MHz	QPSK	132322	36RB#39	21.67	20.97	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#18	21.64	20.94	30.00	PASS
Band66	15MHz	QPSK	132322	75RB#0	21.55	20.85	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.94	22.24	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.60	21.90	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.54	21.84	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#18	21.72	21.02	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#0	21.65	20.95	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#39	21.72	21.02	30.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.51	20.81	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.79	21.09	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.62	20.92	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.82	21.12	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#0	20.99	20.29	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#39	20.54	19.84	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#18	20.83	20.13	30.00	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.56	19.86	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.69	20.99	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.63	20.93	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.61	20.91	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#18	20.50	19.80	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#0	20.98	20.28	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#39	20.85	20.15	30.00	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.54	19.84	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.88	21.18	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.63	20.93	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.83	21.13	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#0	20.65	19.95	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#39	20.79	20.09	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#18	20.87	20.17	30.00	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.58	19.88	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.74	22.04	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.84	22.14	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.89	22.19	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.86	21.16	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.72	21.02	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.80	21.10	30.00	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.61	20.91	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.99	22.29	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.88	22.18	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#49	22.99	22.29	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.53	20.83	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#0	21.51	20.81	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#50	21.55	20.85	30.00	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.54	20.84	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.93	22.23	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.50	21.80	30.00	PASS



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Band66	20MHz	QPSK	132572	1RB#99	22.98	22.28	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#0	21.91	21.21	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#25	21.92	21.22	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#50	21.97	21.27	30.00	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.92	21.22	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.83	21.13	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.51	20.81	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.67	20.97	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#50	20.58	19.88	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#0	20.81	20.11	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#25	20.93	20.23	30.00	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.55	19.85	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.51	20.81	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.51	20.81	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.67	20.97	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#0	20.85	20.15	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	20.80	20.10	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#25	20.76	20.06	30.00	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.93	20.23	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.77	21.07	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.85	21.15	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.72	21.02	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#0	20.69	19.99	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#25	20.91	20.21	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#50	20.72	20.02	30.00	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.81	20.11	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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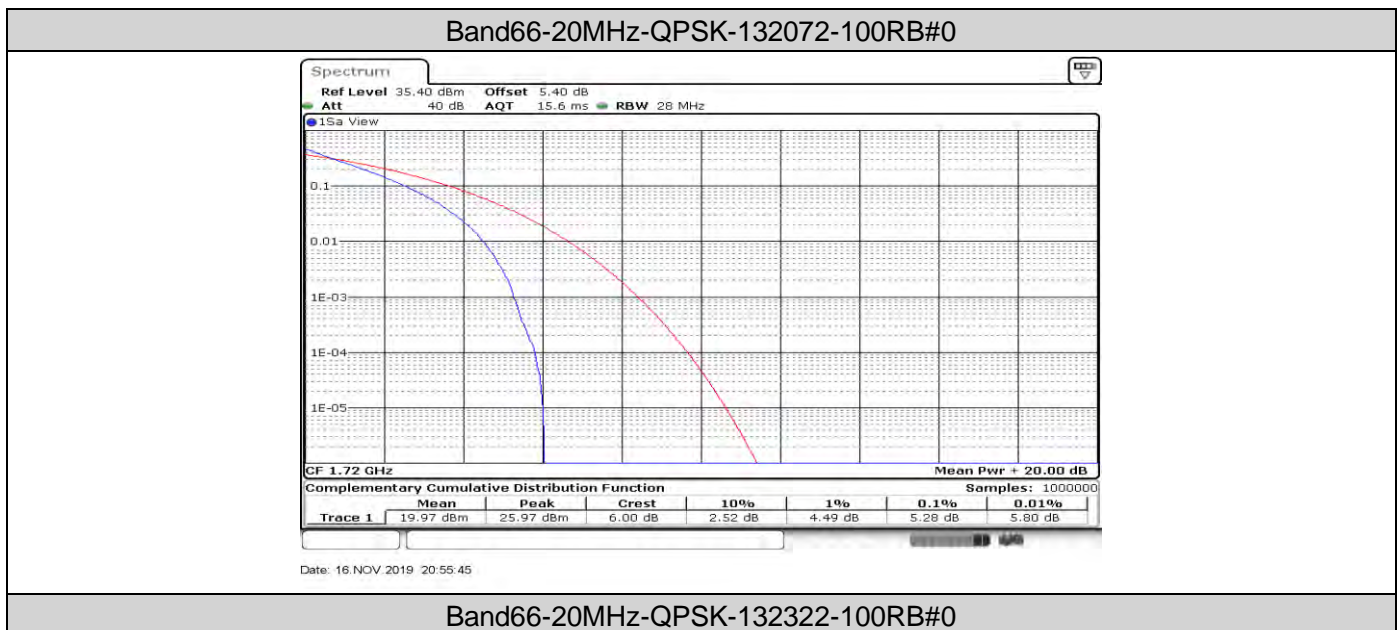


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	5.28	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.99	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.04	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	6.12	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.86	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.91	13	PASS

### 2.2. Test Plots



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Band66-20MHz-QPSK-132572-100RB#0



Band66-20MHz-16QAM-132072-100RB#0







Band66-20MHz-16QAM-132322-100RB#0



Band66-20MHz-16QAM-132572-100RB#0



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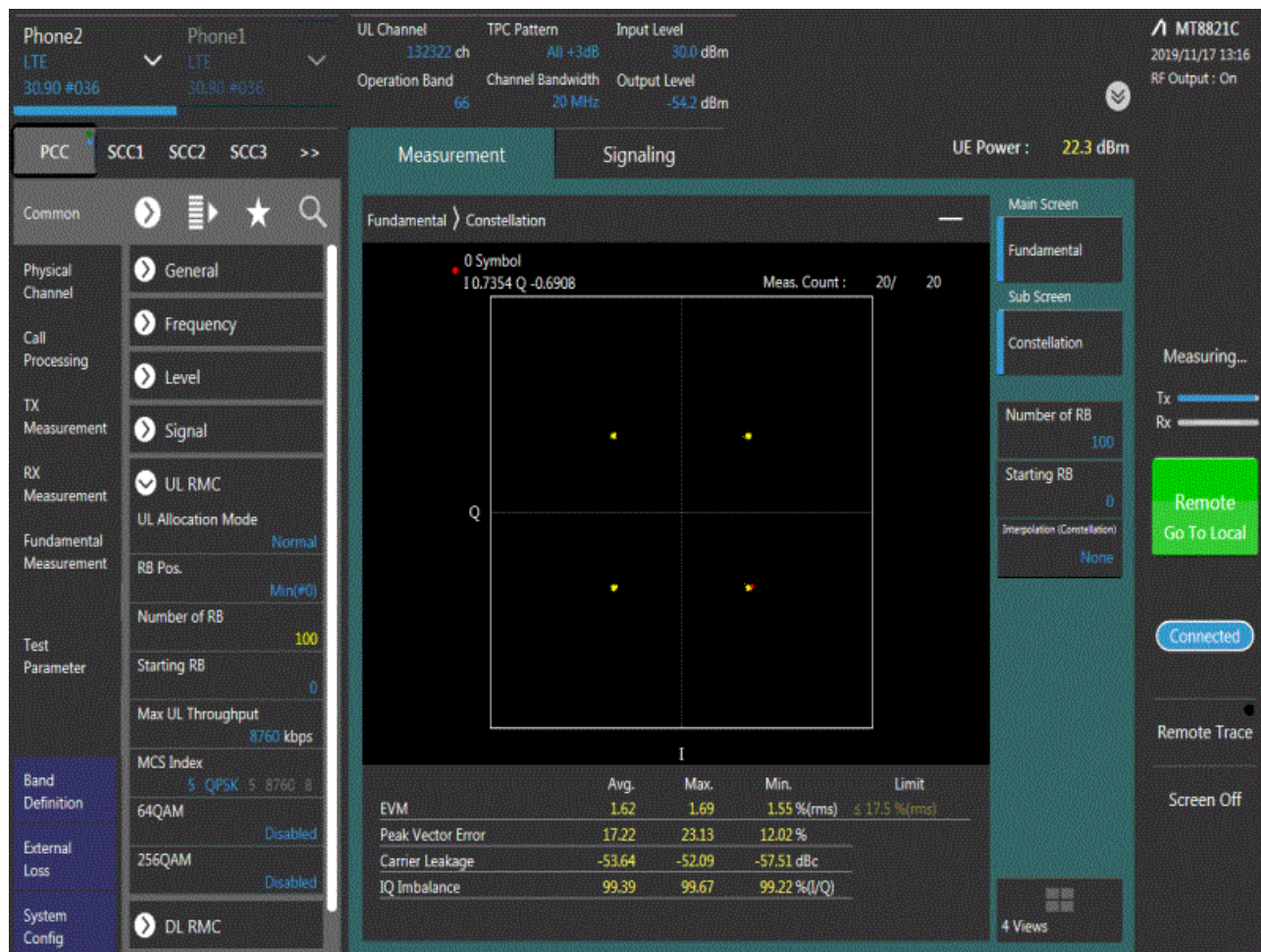
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH

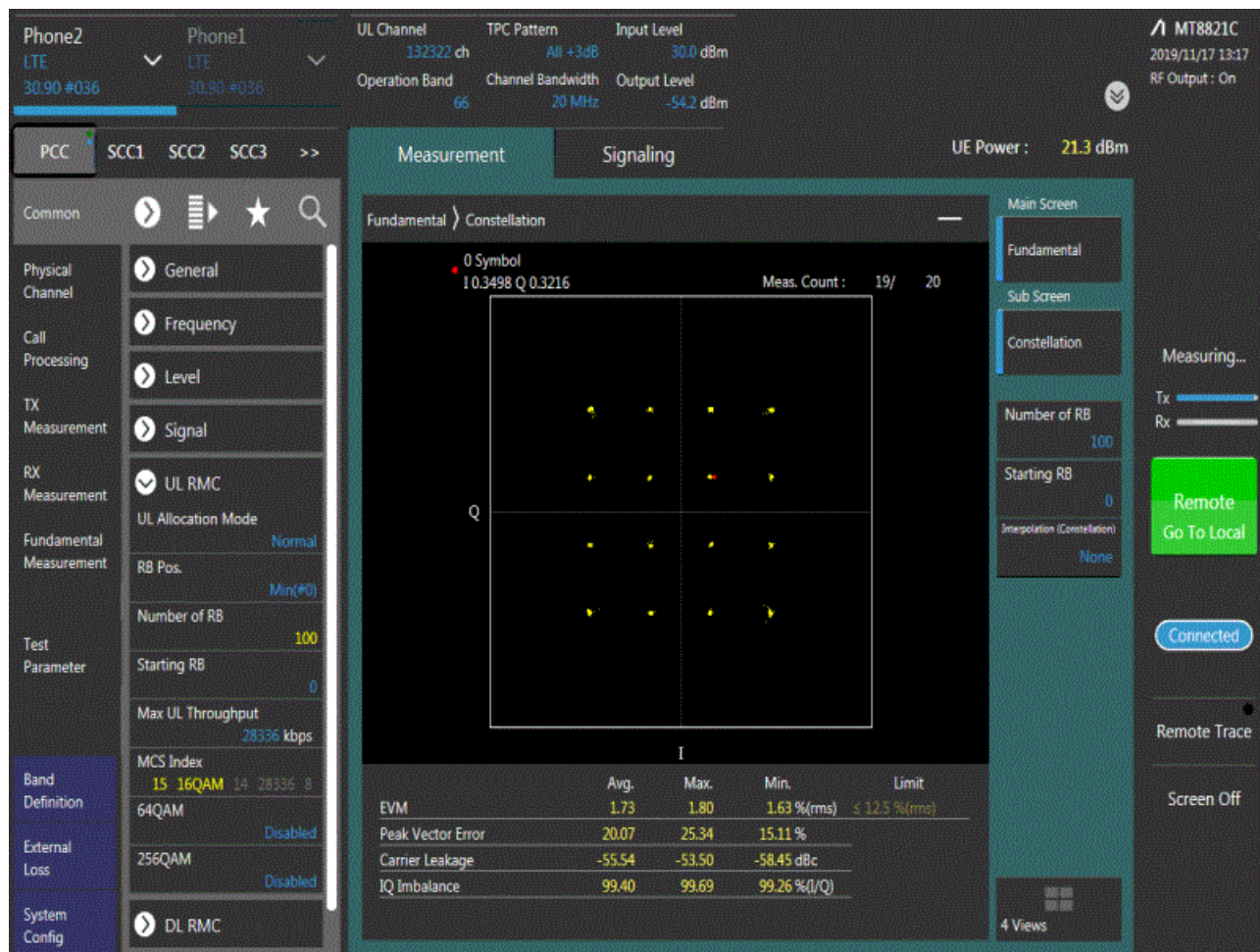






## 3.2. Test Mode = LTE /TM2 20MHz

### 3.2.1. Test Channel = MCH







## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.088	1.284	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.091	1.284	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.091	1.317	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.088	1.278	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.088	1.287	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.091	1.302	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.685	2.910	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.685	2.898	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.691	2.910	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.685	2.862	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.679	2.904	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.679	2.892	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.476	4.940	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	4.890	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.486	4.910	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.505	4.920	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.476	4.900	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.496	4.950	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.971	9.520	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.991	9.760	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.971	9.720	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.991	9.660	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.971	9.700	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.971	9.700	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.666	14.910	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.696	14.970	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.666	14.970	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.666	14.520	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.636	14.820	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.636	14.850	PASS
Band66	20MHz	QPSK	132072	100RB#0	18.142	19.200	PASS



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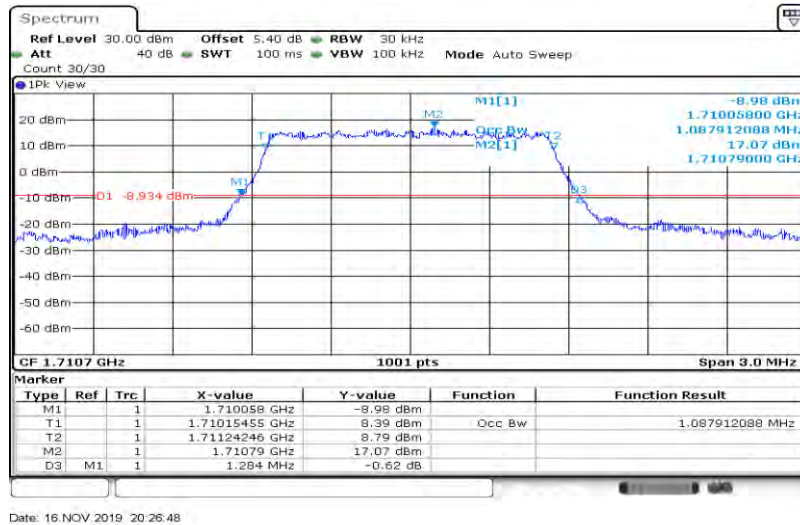
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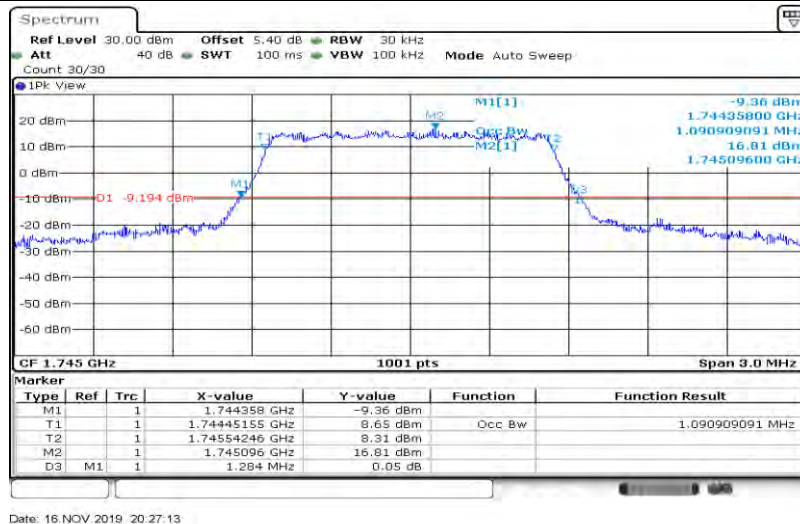
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Band66	20MHz	QPSK	132572	100RB#0	18.142	19.440	PASS
Band66	20MHz	16QAM	132072	100RB#0	18.102	19.480	PASS
Band66	20MHz	16QAM	132322	100RB#0	18.142	19.320	PASS
Band66	20MHz	16QAM	132572	100RB#0	18.102	19.360	PASS

## 4.2. Test Plots

Band66-1.4MHz-QPSK-131979-6RB#0-1.088



Band66-1.4MHz-QPSK-132322-6RB#0-1.091

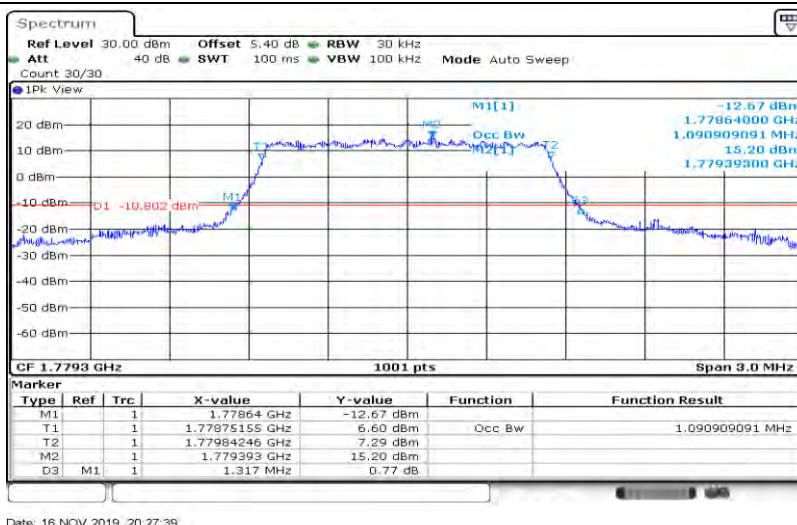


Band66-1.4MHz-QPSK-132665-6RB#0-1.091

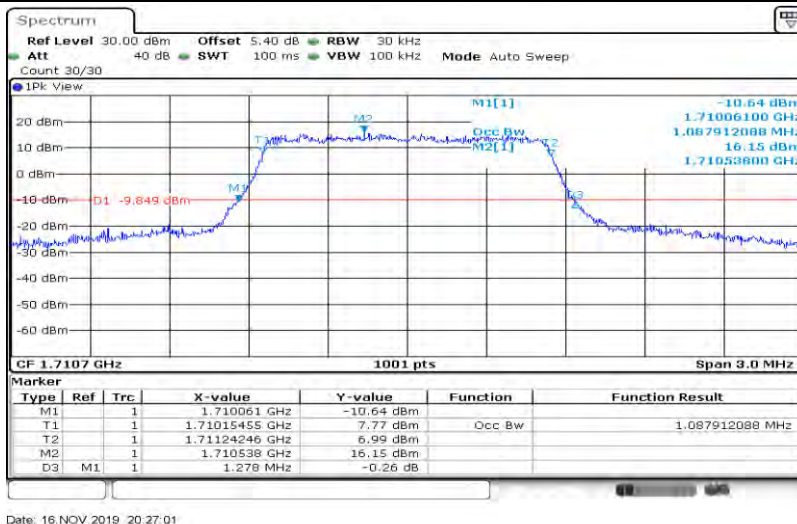


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Band66-1.4MHz-16QAM-131979-6RB#0-1.088



Band66-1.4MHz-16QAM-132322-6RB#0-1.088



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Date: 16.NOV.2019 20:27:26

## Band66-1.4MHz-16QAM-132665-6RB#0-1.091



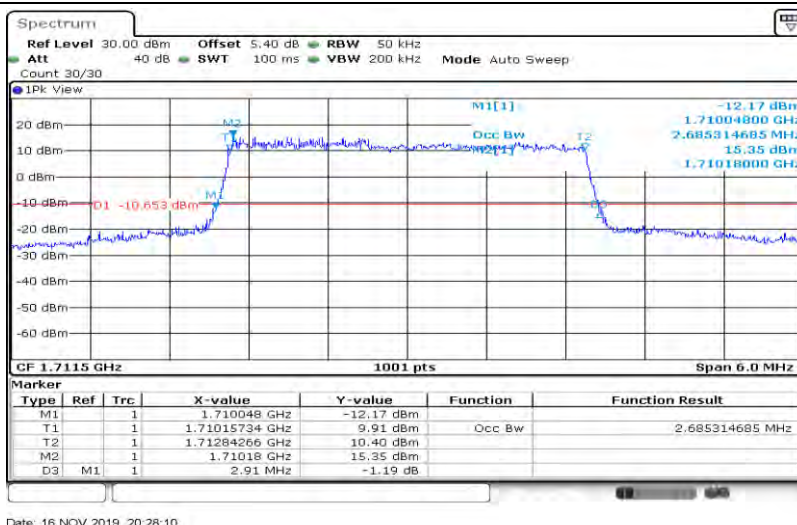
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## Band66-3MHz-QPSK-131987-15RB#0-2.685

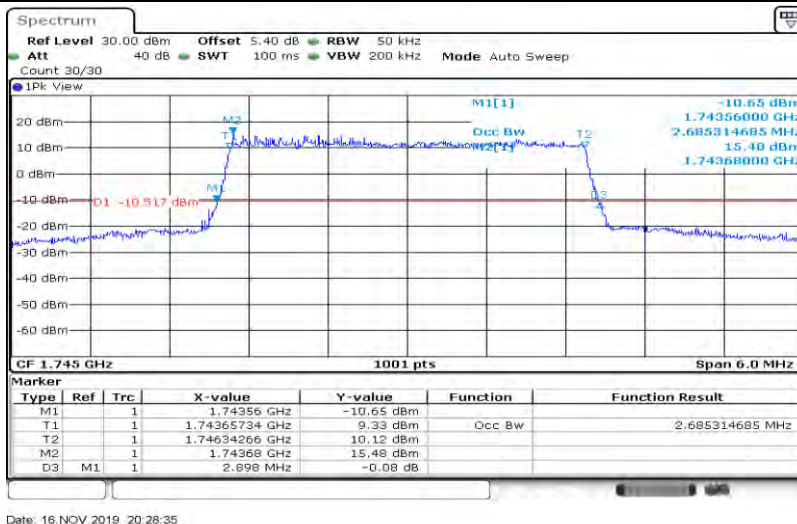


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Band66-3MHz-QPSK-132322-15RB#0-2.685

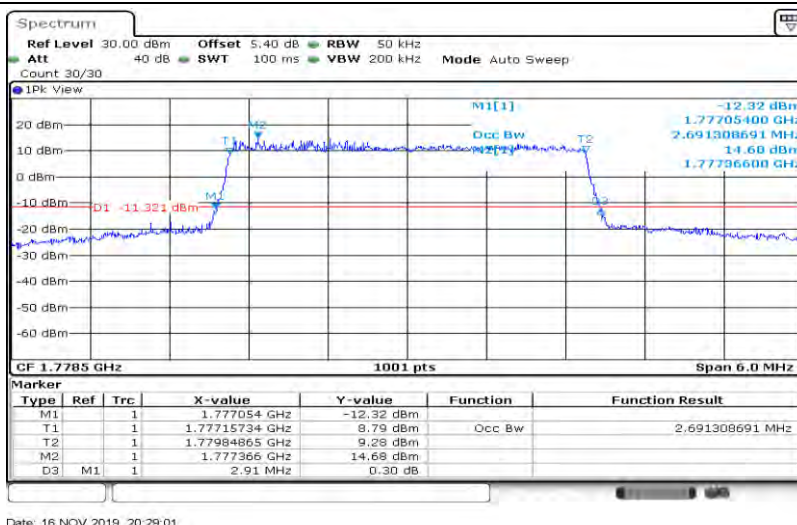


Band66-3MHz-QPSK-132657-15RB#0-2.691

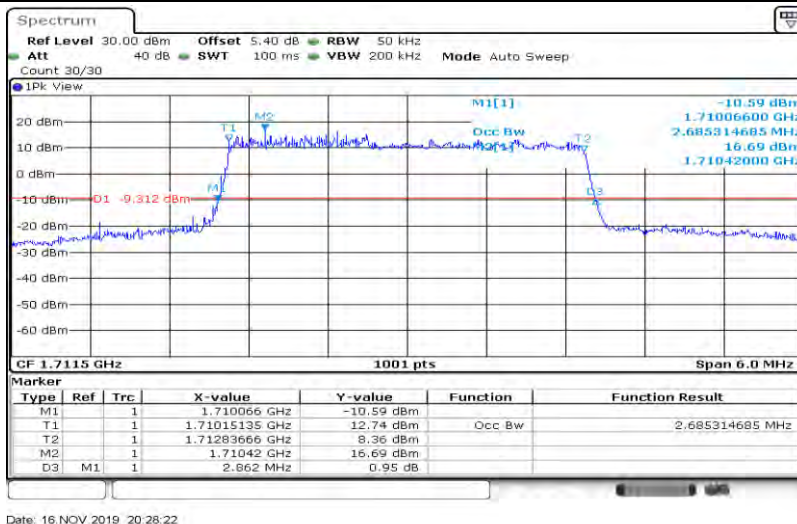


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Band66-3MHz-16QAM-131987-15RB#0-2.685



Band66-3MHz-16QAM-132322-15RB#0-2.679



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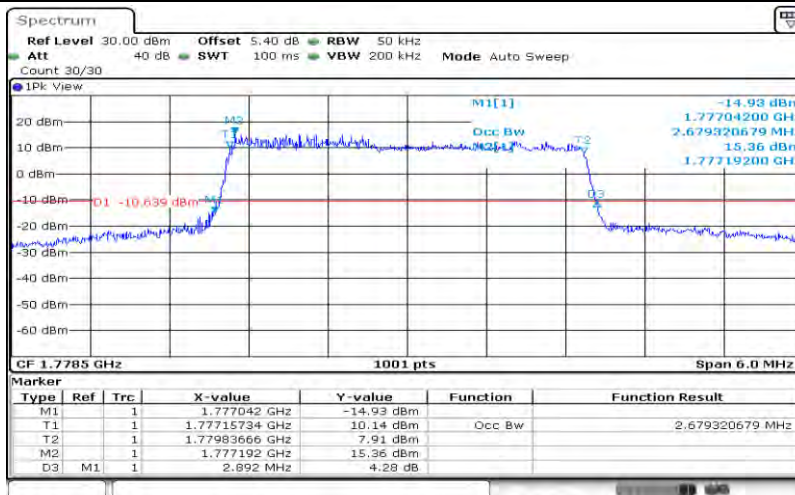
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Date: 16.NOV.2019 20:28:48

## Band66-3MHz-16QAM-132657-15RB#0-2.679



Date: 16.NOV.2019 20:29:13

## Band66-5MHz-QPSK-131997-25RB#0-4.476



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Band66-5MHz-QPSK-132322-25RB#0-4.476

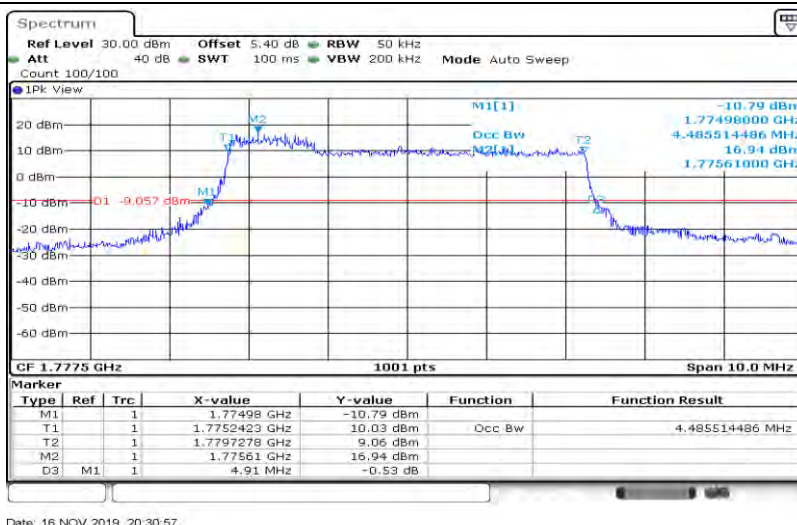


Band66-5MHz-QPSK-132647-25RB#0-4.486



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## Band66-5MHz-16QAM-131997-25RB#0-4.505



## Band66-5MHz-16QAM-132322-25RB#0-4.476





Band66-5MHz-16QAM-132647-25RB#0-4.496



Band66-10MHz-QPSK-132022-50RB#0-8.971



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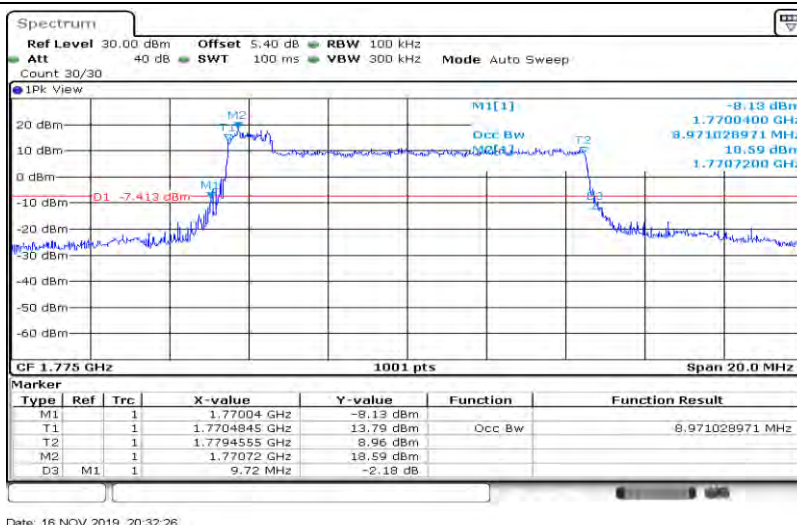


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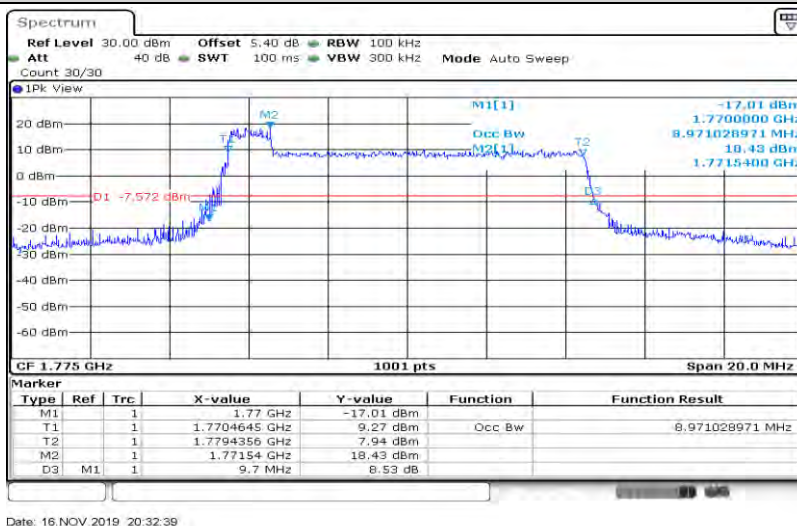
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Band66-15MHz-QPSK-132047-75RB#0-13.666



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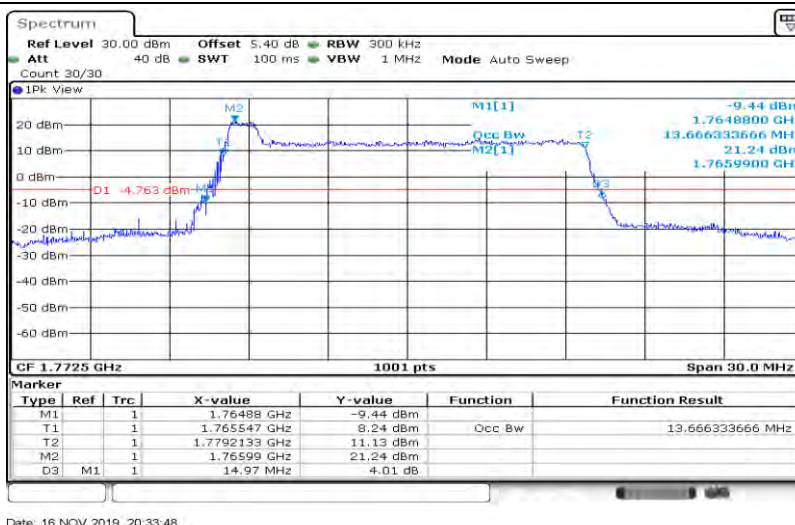
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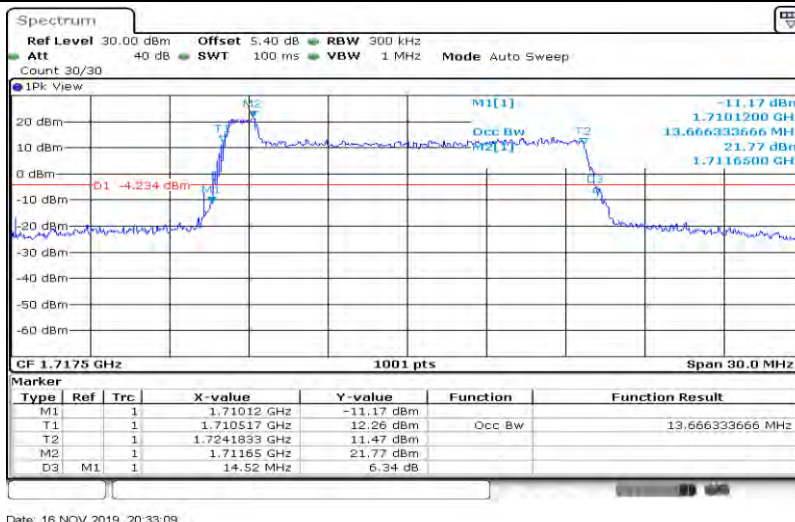
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## Band66-15MHz-16QAM-132322-75RB#0-13.636



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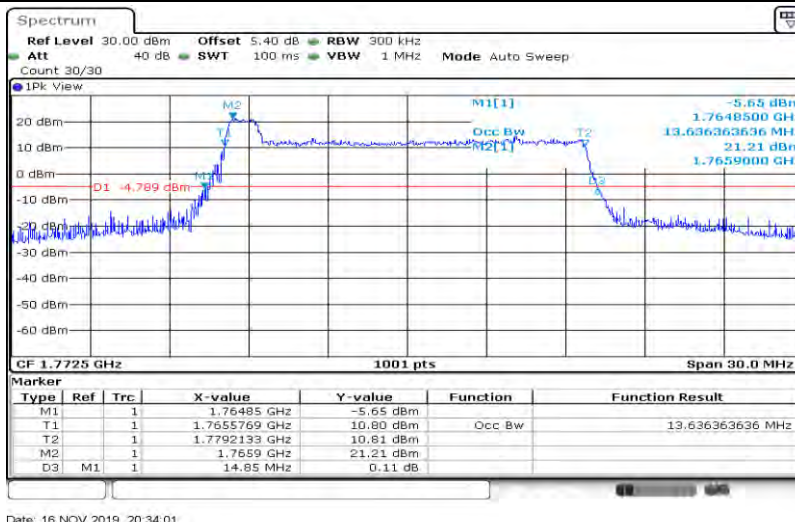
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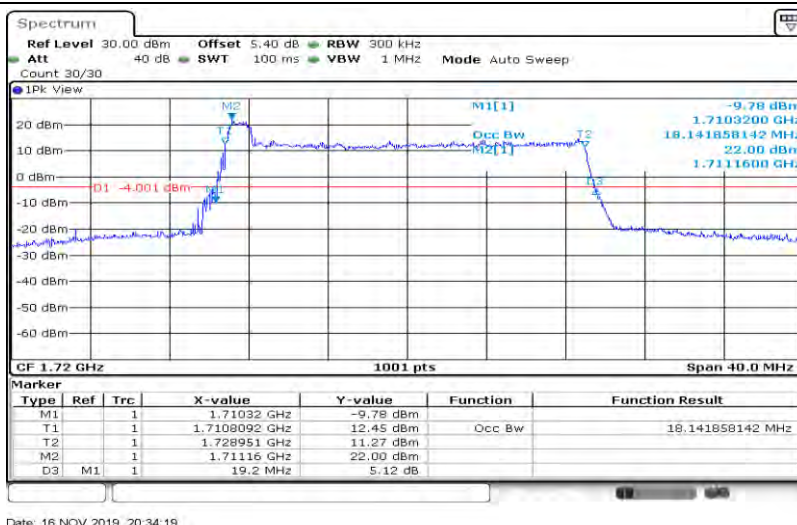
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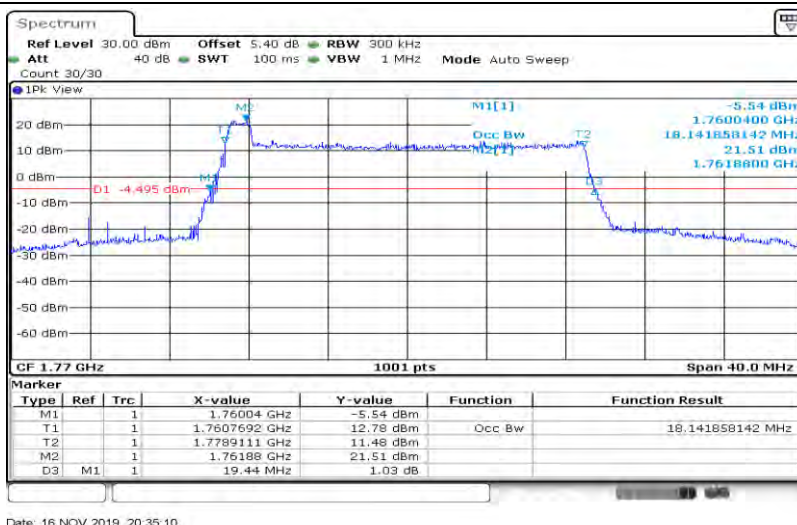
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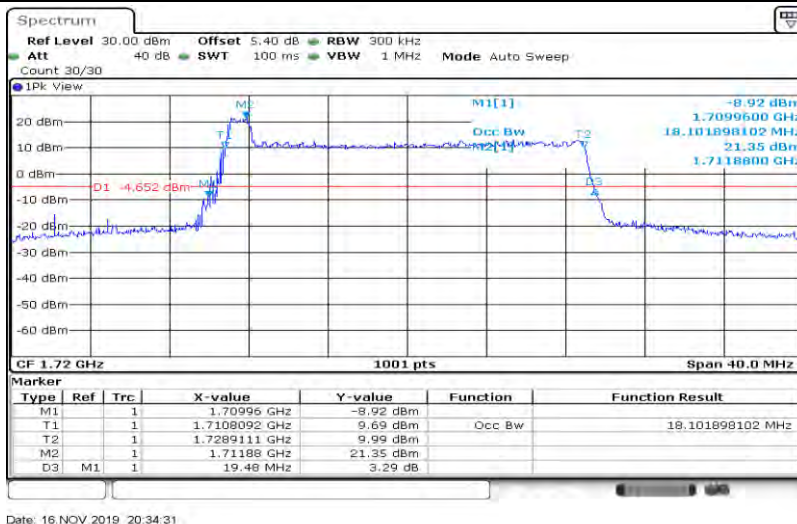
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Band66-20MHz-16QAM-132072-100RB#0-18.102



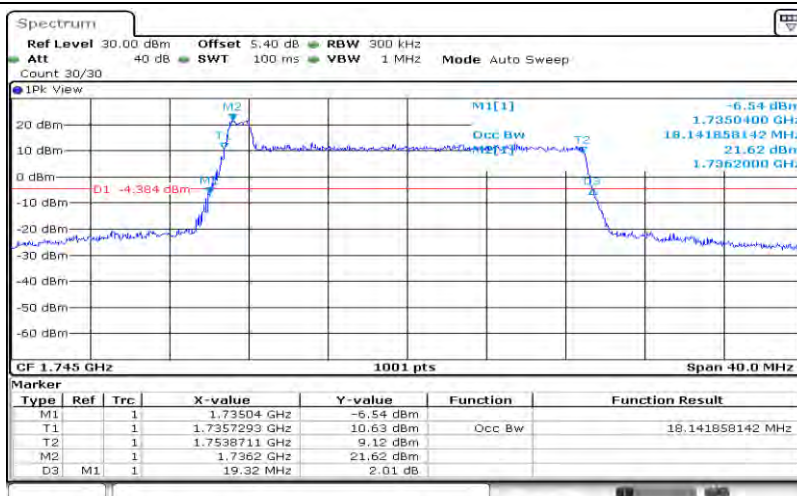
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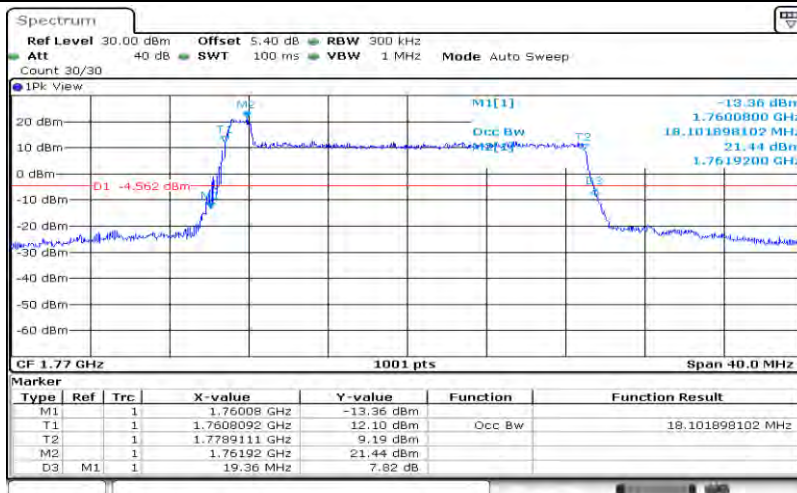
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Band66-20MHz-16QAM-132572-100RB#0-18.102



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## 5. Band Edge Compliance

### 5.1. Test Plots

Band66-1.4MHz-QPSK-131979-1RB#0



Band66-1.4MHz-QPSK-131979-6RB#0



Band66-1.4MHz-QPSK-132665-1RB#5



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Date: 16.NOV.2019 20:37:10

Band66-1.4MHz-QPSK-132665-6RB#0



Date: 16.NOV.2019 20:37:49

Band66-1.4MHz-16QAM-131979-1RB#0



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Band66-1.4MHz-16QAM-131979-6RB#0



Band66-1.4MHz-16QAM-132665-1RB#5





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Band66-1.4MHz-16QAM-132665-6RB#0



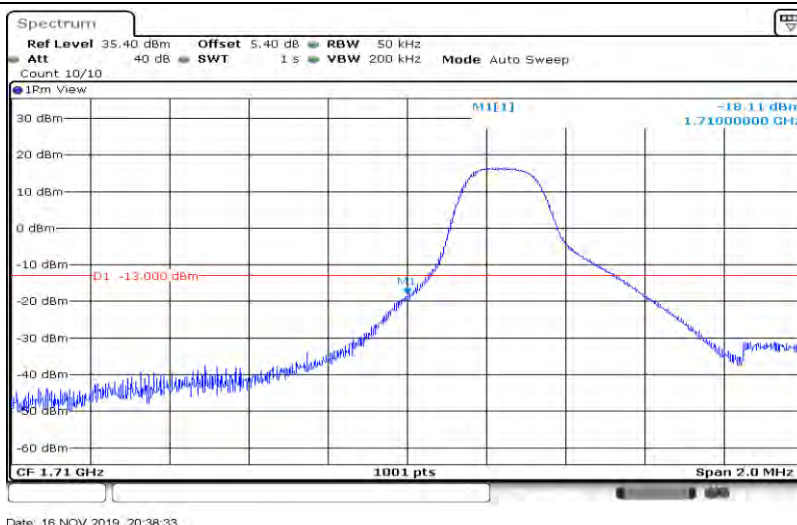
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Band66-3MHz-QPSK-131987-1RB#0



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Band66-3MHz-QPSK-131987-15RB#0



Band66-3MHz-QPSK-132657-1RB#14



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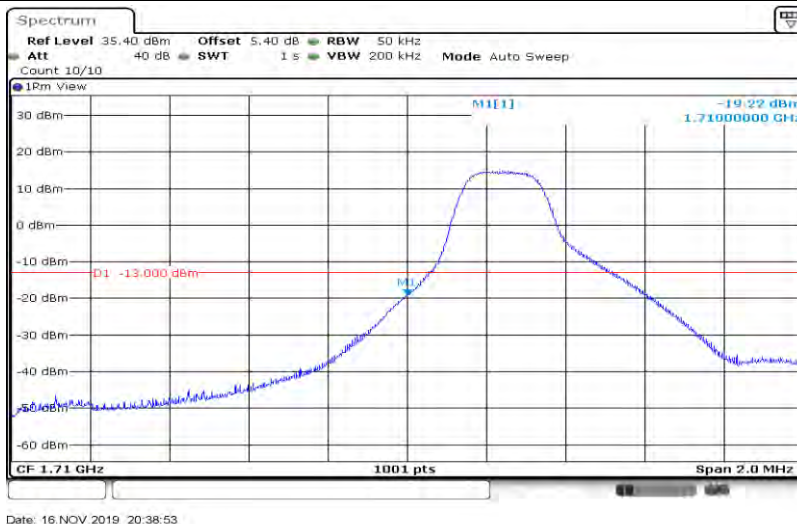


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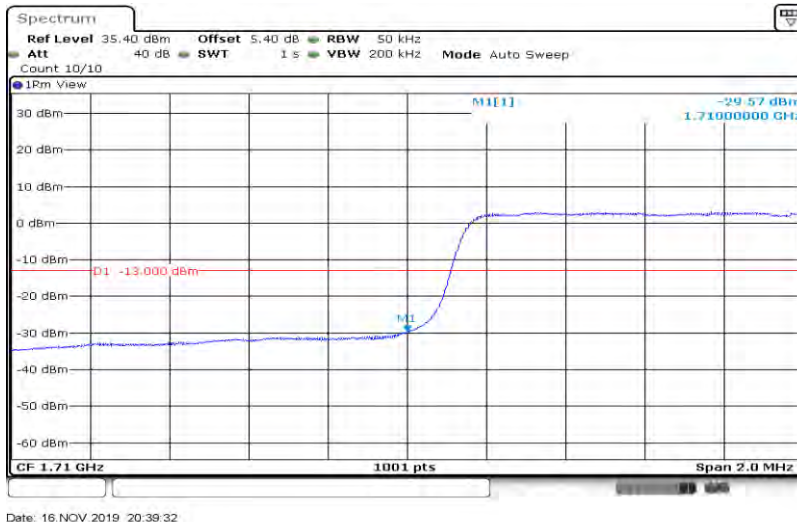


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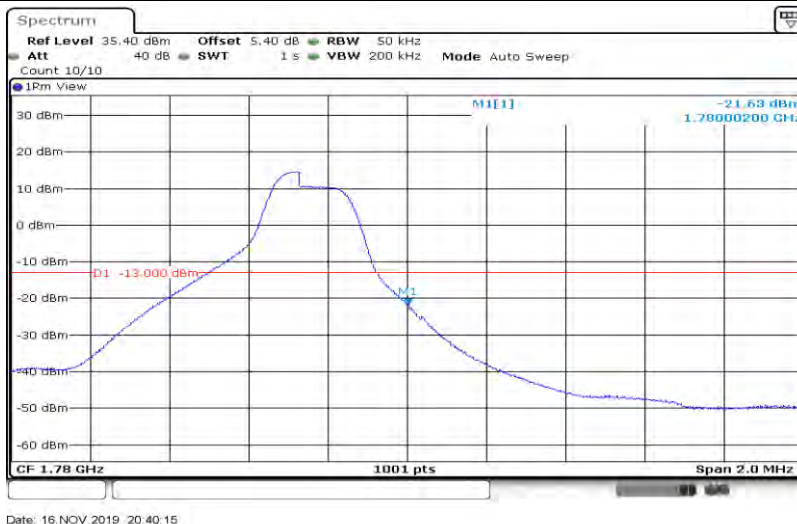


Band66-3MHz-16QAM-131987-15RB#0



Band66-3MHz-16QAM-132657-1RB#14





Band66-3MHz-16QAM-132657-15RB#0



Band66-5MHz-QPSK-131997-1RB#0



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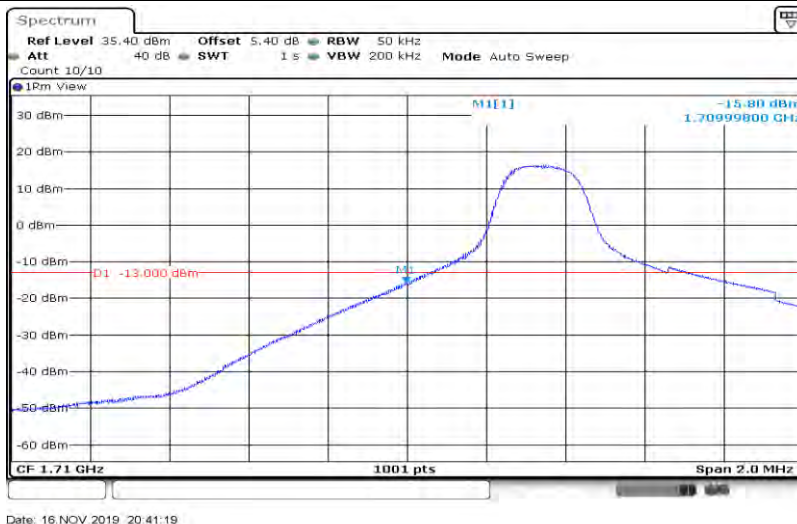
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Band66-5MHz-QPSK-131997-25RB#0



Band66-5MHz-QPSK-132647-1RB#24



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Band66-5MHz-QPSK-132647-25RB#0



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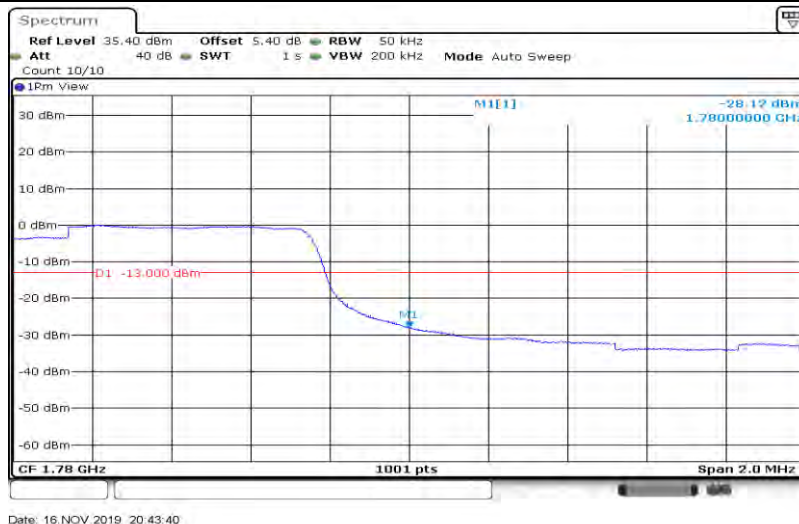
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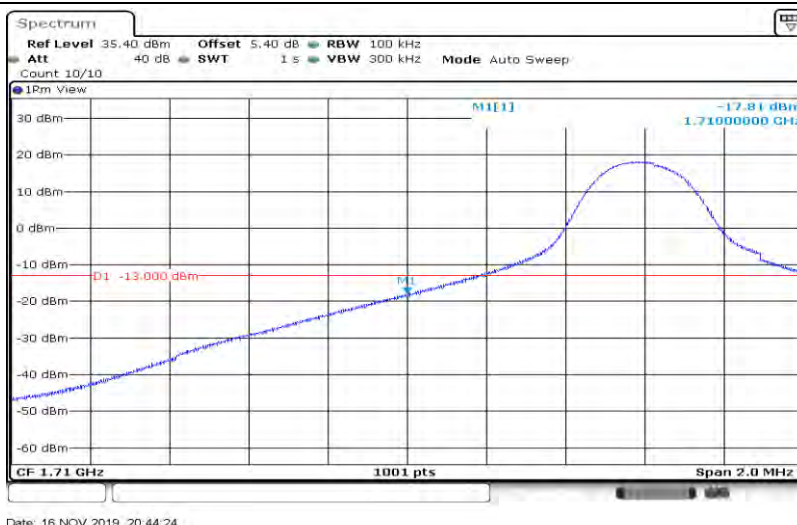
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Band66-15MHz-16QAM-132047-1RB#0





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Band66-15MHz-16QAM-132597-1RB#74





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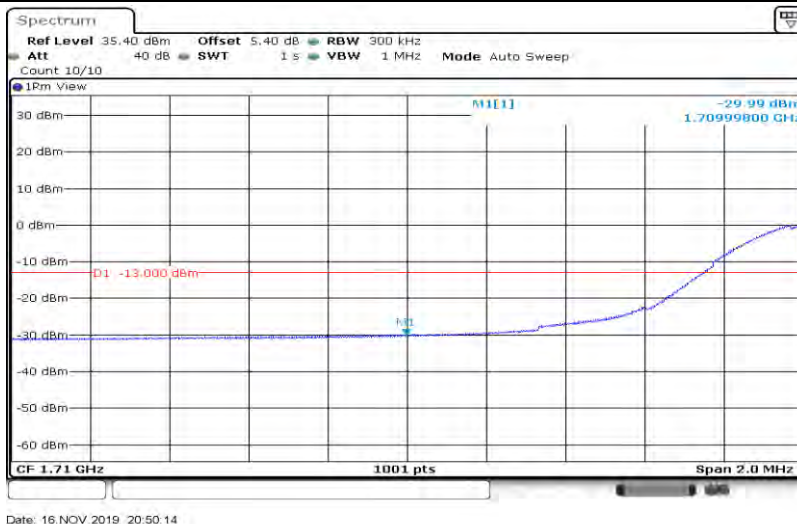
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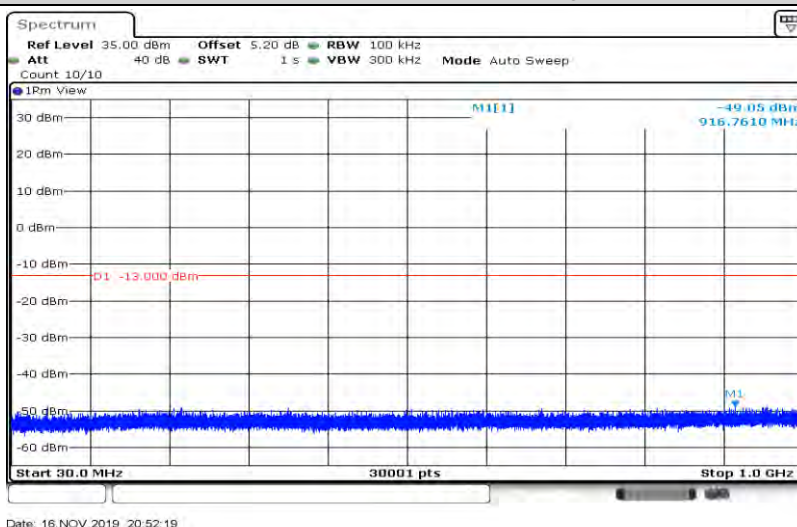
## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

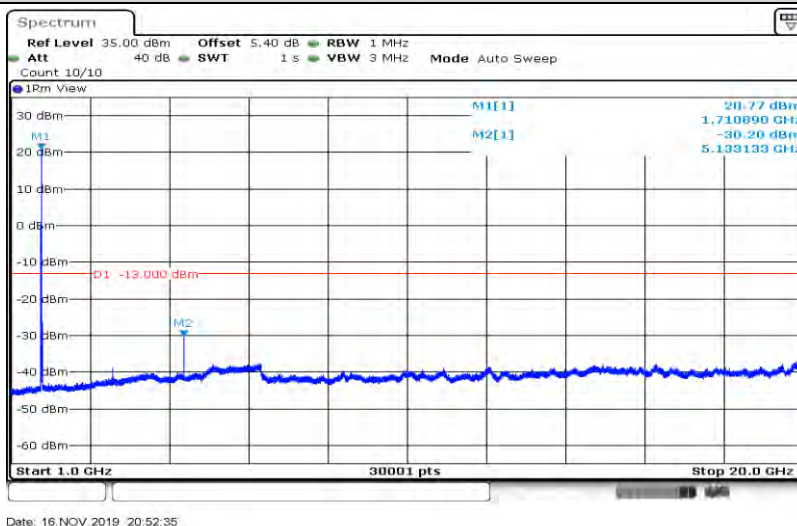
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

Band66-20MHz-QPSK-132072-1RB#0-Range1:30~1000MHz

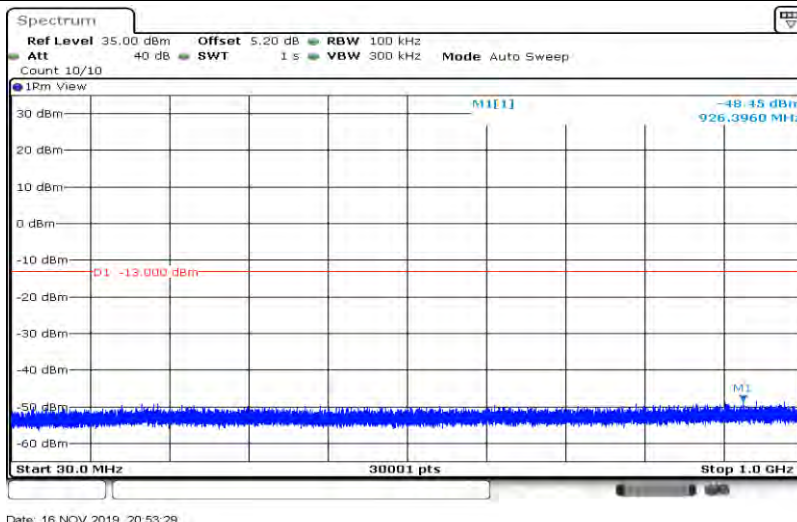


Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz

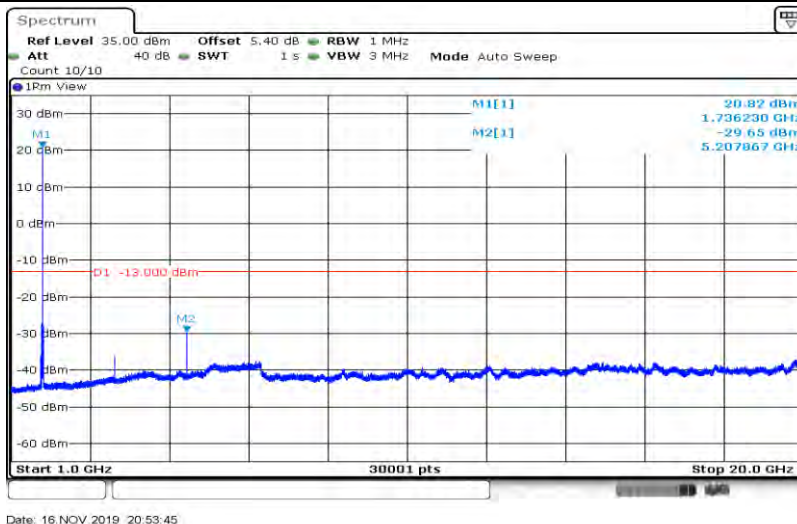


Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz





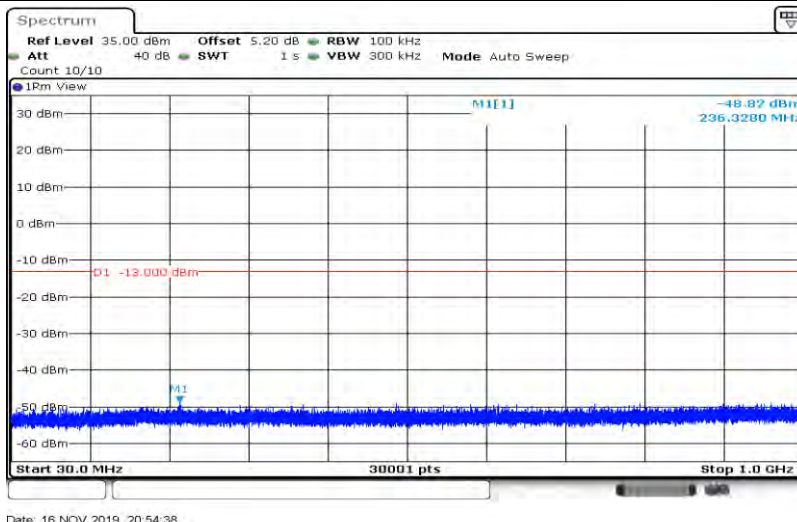
**Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz**



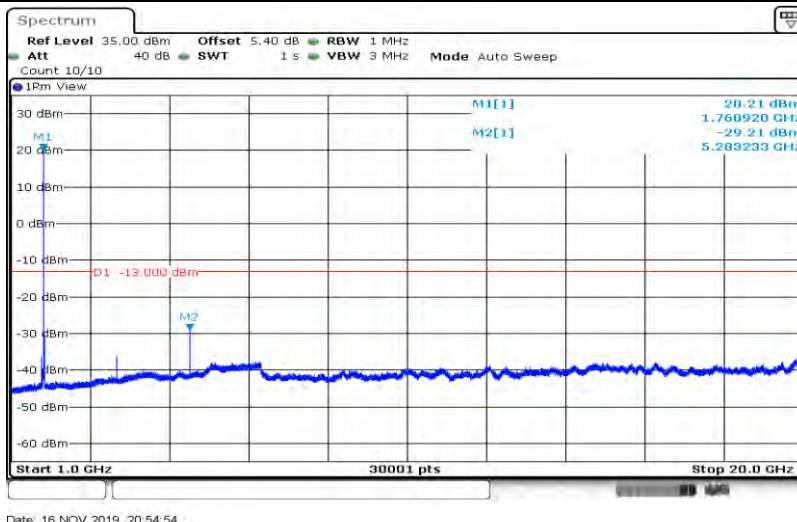
**Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz**







**Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~20000MHz**

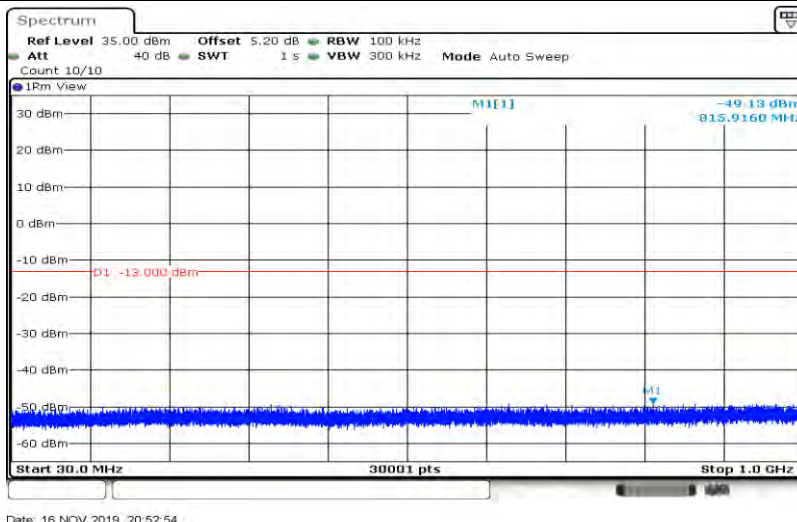


**Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz**

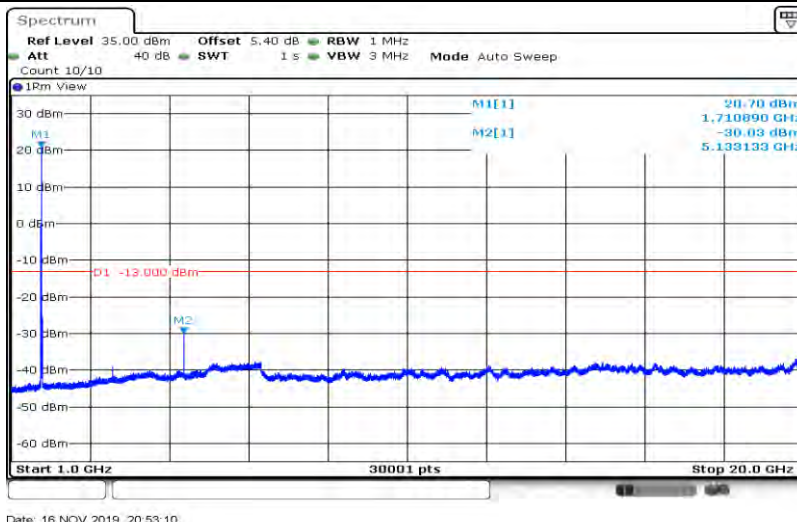


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**Band66-20MHz-16QAM-132072-1RB#0-Range2:1000~20000MHz**

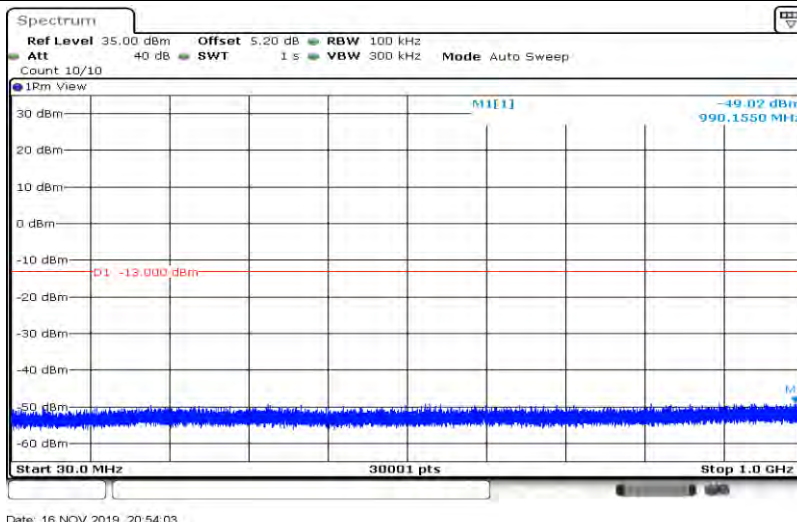


**Band66-20MHz-16QAM-132322-1RB#0-Range1:30~1000MHz**

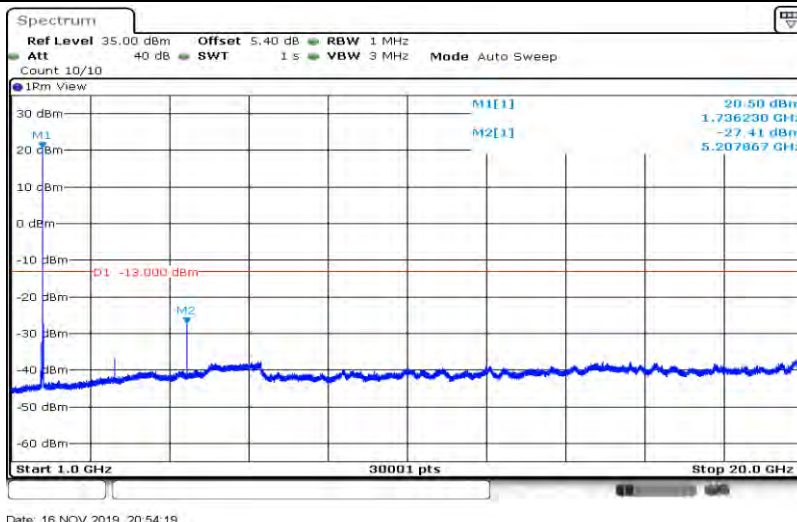


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**Band66-20MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz**



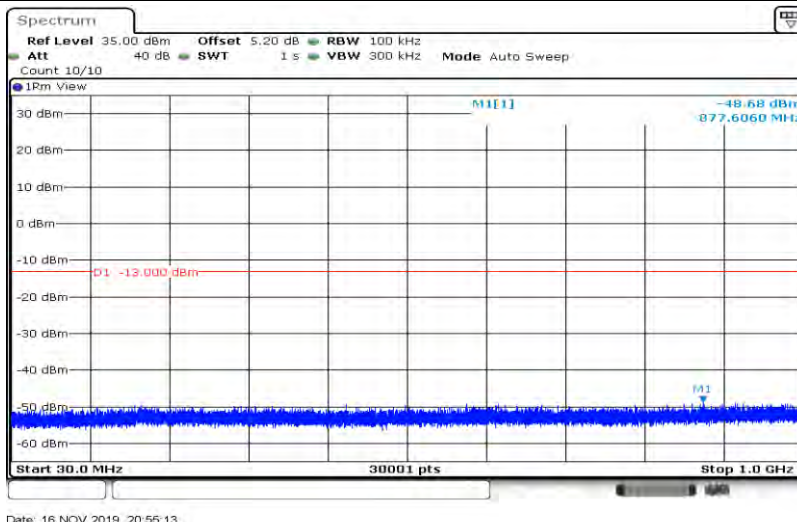
**Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1000MHz**



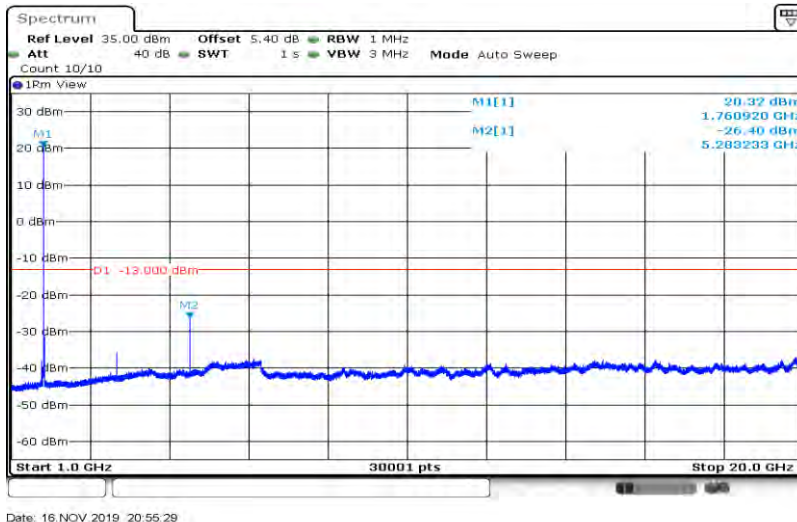
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**Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~20000MHz**



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
35.5778	-73.36	-13.00	60.36	Vertical
594.2772	-84.23	-13.00	71.23	Vertical
3422.0141	-42.36	-13.00	29.36	Vertical
6844.1281	-39.80	-13.00	26.80	Vertical
8555.1852	-37.00	-13.00	24.00	Vertical
17997.4999	-32.28	-13.00	19.28	Vertical
35.5778	-57.68	-13.00	44.68	Horizontal
575.9918	-67.66	-13.00	54.66	Horizontal
3422.5141	-41.34	-13.00	28.34	Horizontal
6844.1281	-43.49	-13.00	30.49	Horizontal
8555.6852	-38.65	-13.00	25.65	Horizontal
17991.4997	-36.56	-13.00	23.56	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
35.7718	-74.09	-13.00	61.09	Vertical
3472.0157	-41.07	-13.00	28.07	Vertical
6944.1315	-37.68	-13.00	24.68	Vertical
8680.6894	-38.14	-13.00	25.14	Vertical
12152.3051	-38.84	-13.00	25.84	Vertical
17916.9972	-32.81	-13.00	19.81	Vertical
35.5778	-59.84	-13.00	46.84	Horizontal
232.5461	-80.96	-13.00	67.96	Horizontal
3472.0157	-40.53	-13.00	27.53	Horizontal
6944.1315	-43.09	-13.00	30.09	Horizontal
8680.6894	-41.28	-13.00	28.28	Horizontal
17999.5000	-36.97	-13.00	23.97	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
575.9918	-69.88	-13.00	56.88	Vertical
3522.0174	-41.12	-13.00	28.12	Vertical
7044.1348	-38.89	-13.00	25.89	Vertical
8805.6935	-41.94	-13.00	28.94	Vertical
14702.8901	-41.47	-13.00	28.47	Vertical
17998.5000	-32.28	-13.00	19.28	Vertical
35.5293	-62.04	-13.00	49.04	Horizontal
575.9918	-72.76	-13.00	59.76	Horizontal
3522.0174	-40.23	-13.00	27.23	Horizontal
7044.1348	-42.44	-13.00	29.44	Horizontal
8805.1935	-44.08	-13.00	31.08	Horizontal
17904.4968	-38.34	-13.00	25.34	Horizontal

#### Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	-4.60	-0.002674	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	-6.60	-0.003837	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	-11.50	-0.006686	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-3.80	-0.002178	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-1.10	-0.000630	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-4.60	-0.002674	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	-5.80	-0.003277	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	-4.60	-0.002599	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	-5.80	-0.003277	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	-8.00	-0.004651	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	-8.60	-0.005000	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	-6.40	-0.003721	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-2.00	-0.001146	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-2.10	-0.001203	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-6.40	-0.003668	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	-10.80	-0.006102	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	-5.30	-0.002994	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	-9.60	-0.005424	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	-7.20	-0.004186	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	-15.10	-0.008779	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	-8.30	-0.004826	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	-10.00	-0.005814	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	-11.30	-0.006570	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-4.10	-0.002350	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-5.10	-0.002923	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-8.10	-0.004642	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-3.50	-0.002006	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-7.70	-0.004413	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	-2.00	-0.001130	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	1.70	0.000960	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	-4.90	-0.002768	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	-7.20	-0.004068	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	-3.30	-0.001864	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	-8.80	-0.005116	±2.5	PASS



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Band66	20MHz	16QAM	132072	100RB#0	NV	-20	-8.70	-0.005058	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	-3.10	-0.001802	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	-4.10	-0.002384	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	-9.90	-0.005756	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-8.40	-0.004814	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-6.50	-0.003725	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-1.20	-0.000688	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	2.90	0.001662	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	-12.20	-0.006991	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	-5.30	-0.002994	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	-6.50	-0.003725	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-11.20	-0.006328	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	0.80	0.000452	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-2.90	-0.001638	±2.5	PASS



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