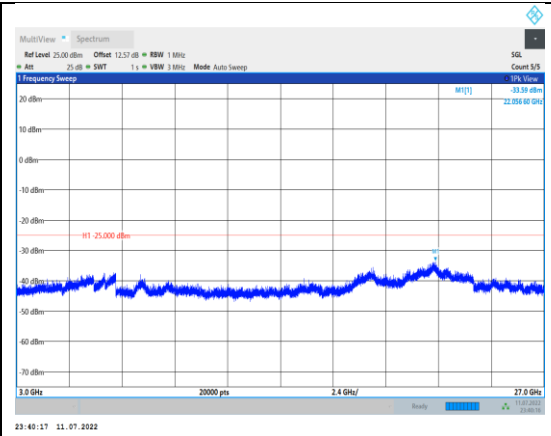
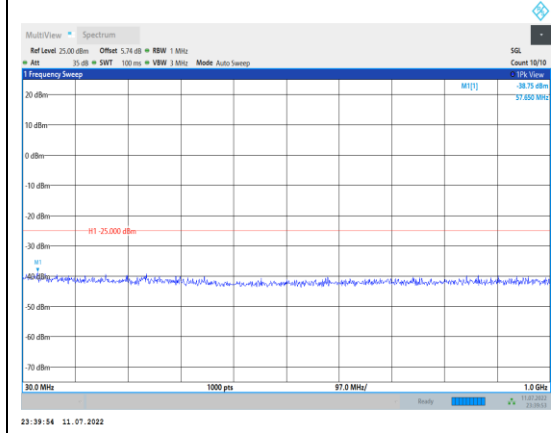


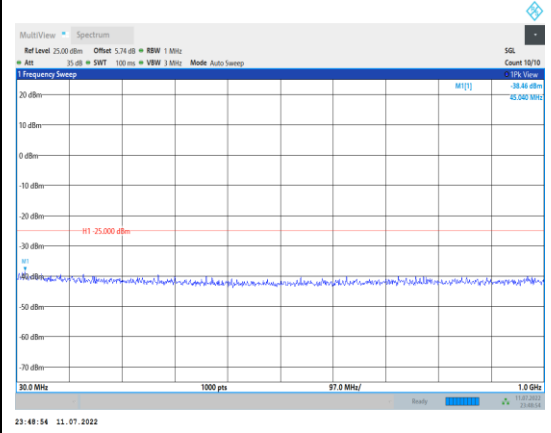
**Band41-15MHz-16QAM-40620-1RB#0-
Range3:3000~27000MHz**



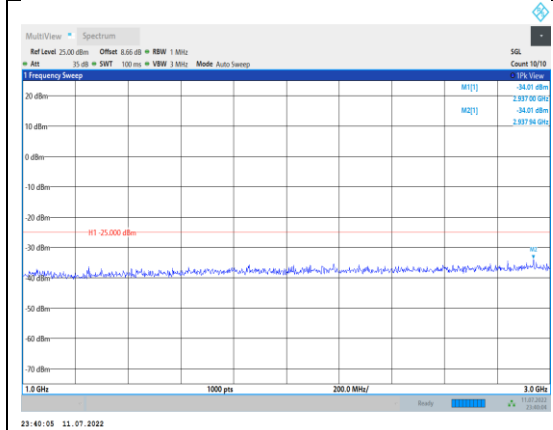
**Band41-15MHz-16QAM-41515-1RB#0-
Range3:3000~27000MHz**



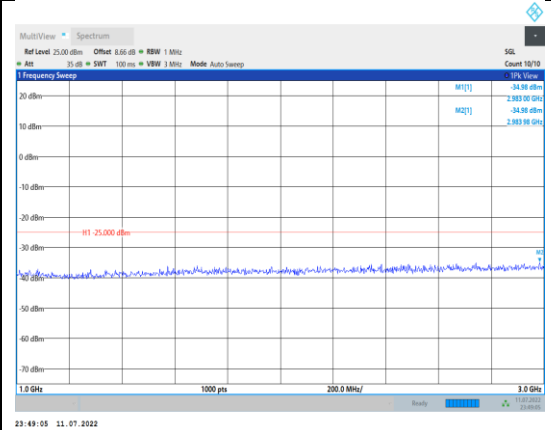
**Band41-15MHz-16QAM-41515-1RB#0-
Range1:30~1000MHz**



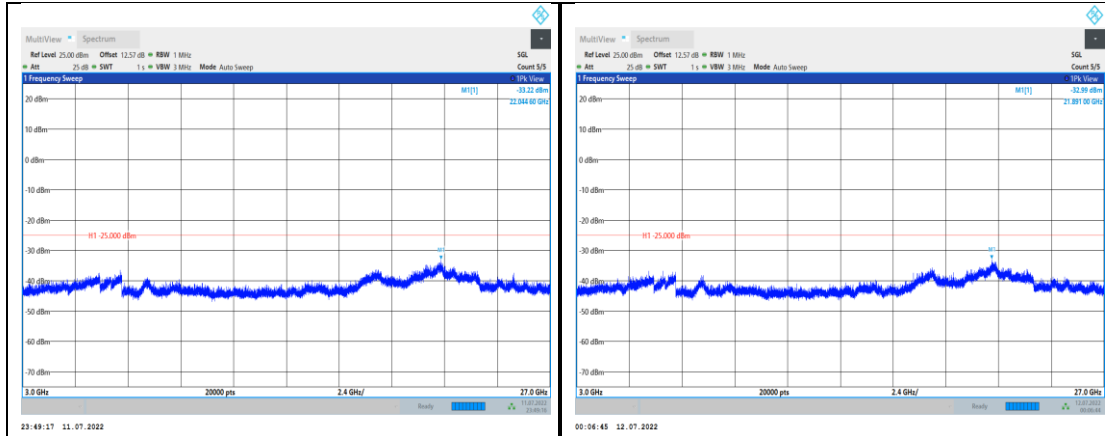
**Band41-20MHz-QPSK-39750-1RB#0-
Range1:30~1000MHz**



**Band41-15MHz-16QAM-41515-1RB#0-
Range2:1000~3000MHz**

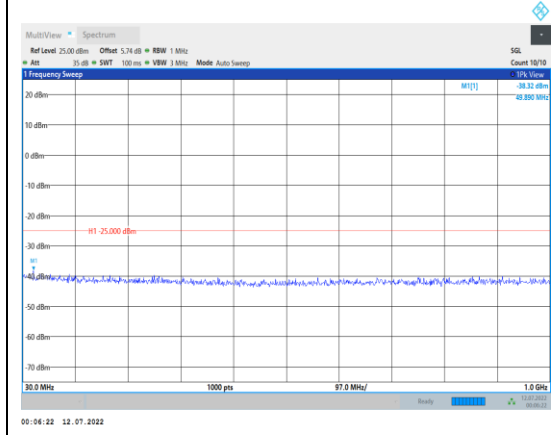


**Band41-20MHz-QPSK-39750-1RB#0-
Range2:1000~3000MHz**

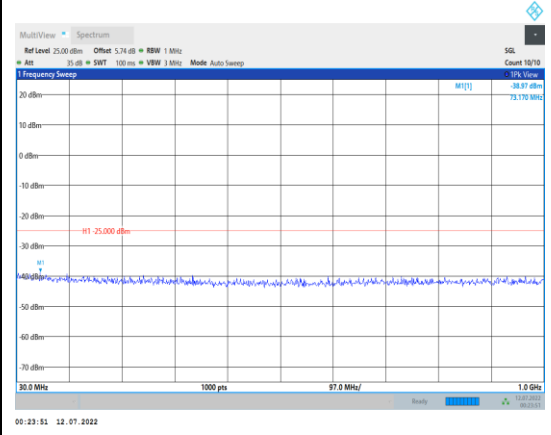


**Band41-20MHz-QPSK-39750-1RB#0-
Range3:3000~27000MHz**

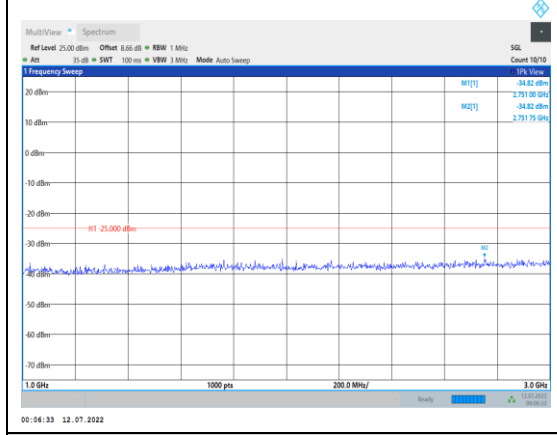
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Range3:3000~27000MHz**



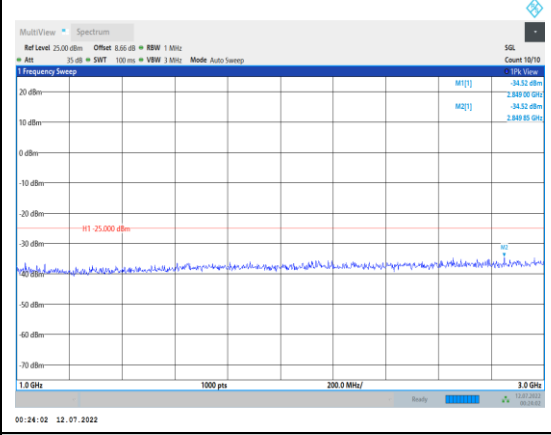
**Band41-20MHz-QPSK-40620-1RB#0-
Range1:30~1000MHz**



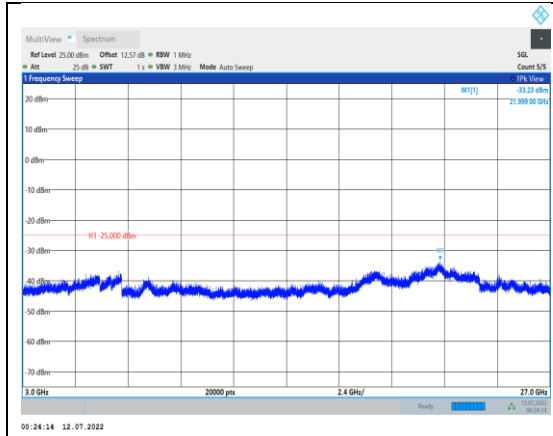
**Band41-20MHz-QPSK-41490-1RB#0-
Range1:30~1000MHz**



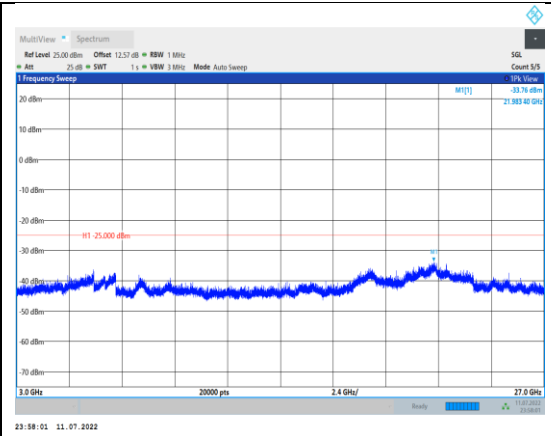
**Band41-20MHz-QPSK-40620-1RB#0-
Range2:1000~3000MHz**



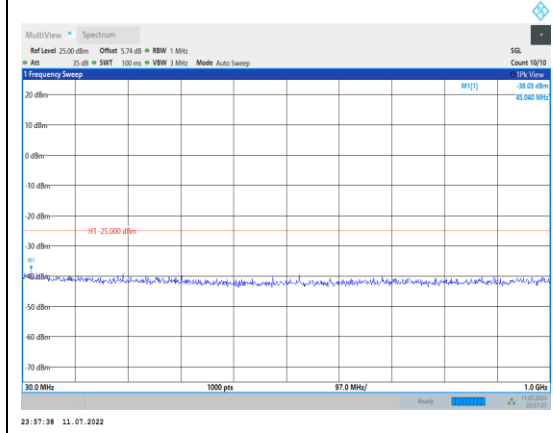
**Band41-20MHz-QPSK-41490-1RB#0-
Range2:1000~3000MHz**



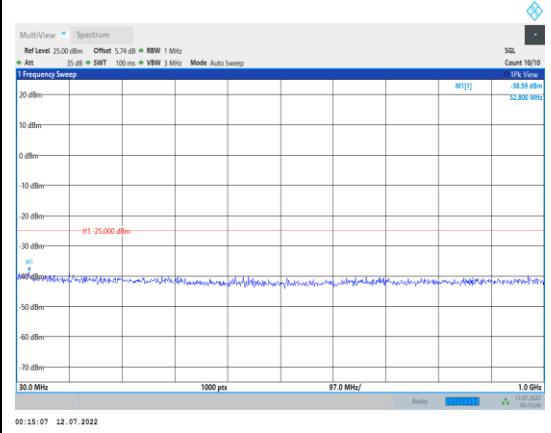
Band41-20MHz-QPSK-41490-1RB#0-Range3:3000~27000MHz



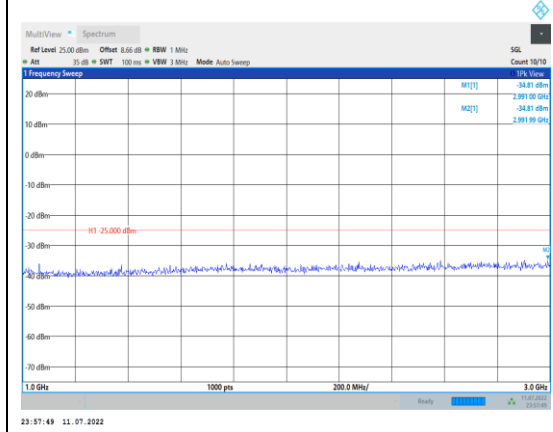
Band41-20MHz-16QAM-39750-1RB#0-Range3:3000~27000MHz



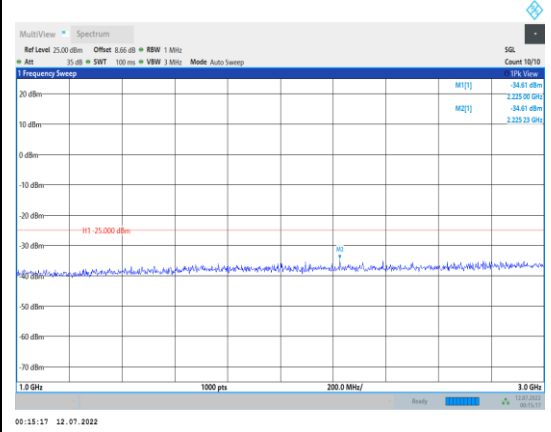
Band41-20MHz-16QAM-39750-1RB#0-Range1:30~1000MHz



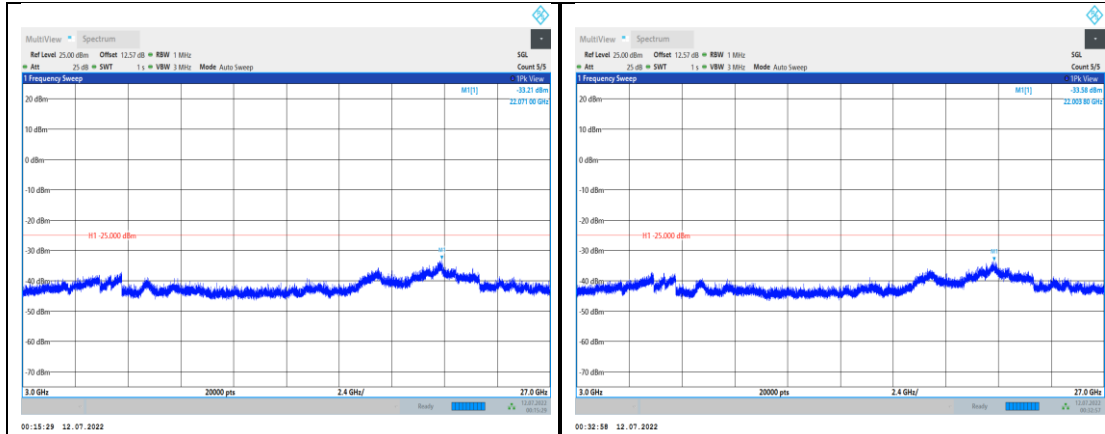
Band41-20MHz-16QAM-40620-1RB#0-Range1:30~1000MHz



Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~3000MHz

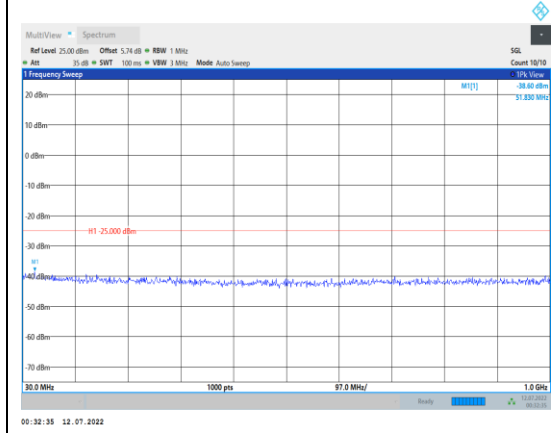


Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~3000MHz

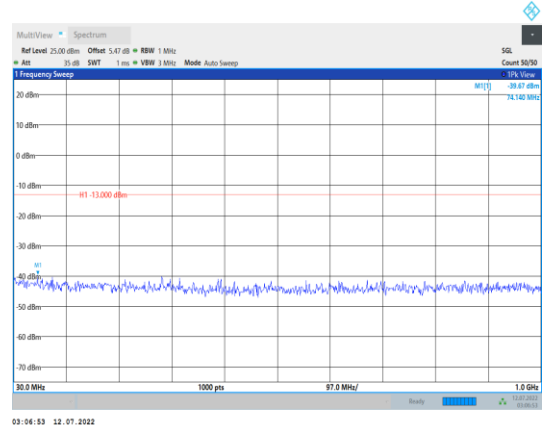


**Band41-20MHz-16QAM-40620-1RB#0-
Range3:3000~27000MHz**

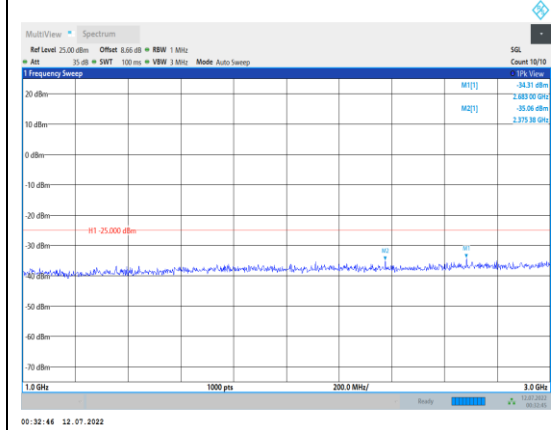
**Band41-20MHz-16QAM-41490-1RB#0-
Range3:3000~27000MHz**



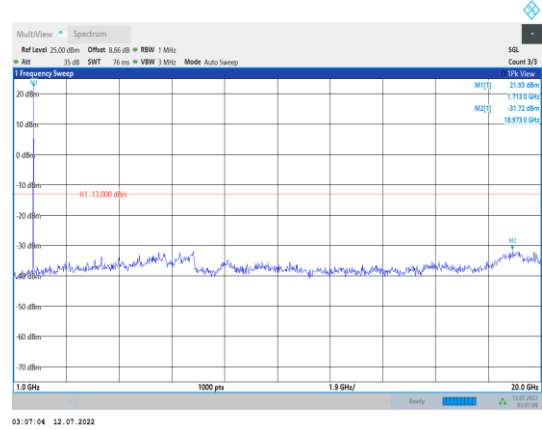
**Band41-20MHz-16QAM-41490-1RB#0-
Range1:30~1000MHz**



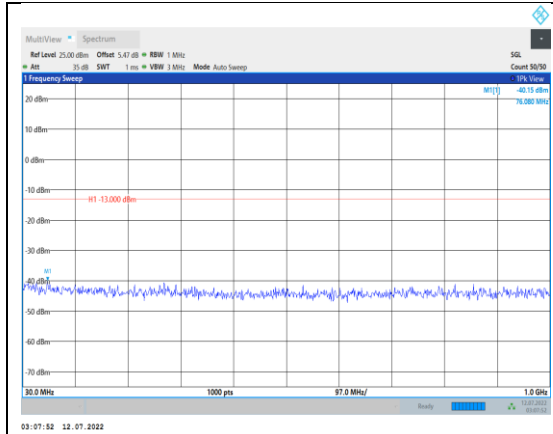
**Band66-1.4MHz-QPSK-131979-1RB#0-
Range1:30~1000MHz**



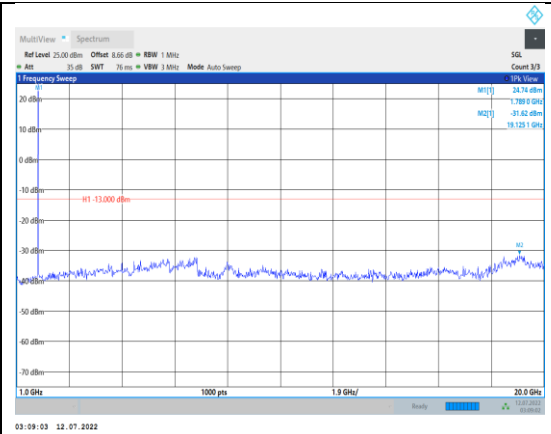
**Band41-20MHz-16QAM-41490-1RB#0-
Range2:1000~3000MHz**



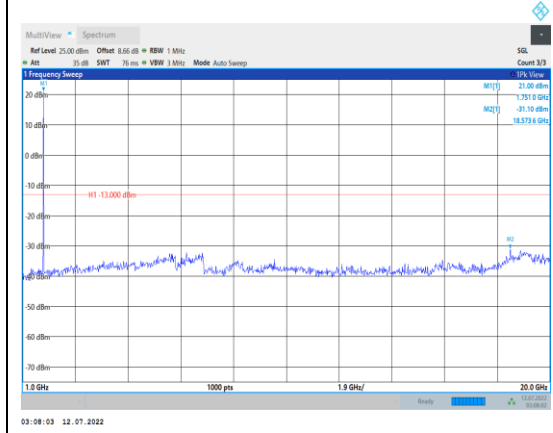
**Band66-1.4MHz-QPSK-131979-1RB#0-
Range2:1000~20000MHz**



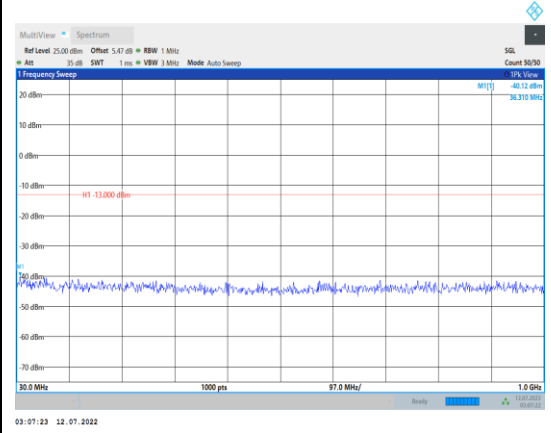
**Band66-1.4MHz-QPSK-132322-1RB#0-
Range1:30~1000MHz**



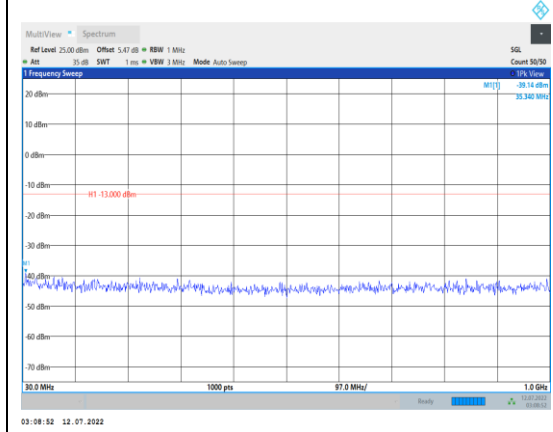
**Band66-1.4MHz-QPSK-132665-1RB#0-
Range2:1000~20000MHz**



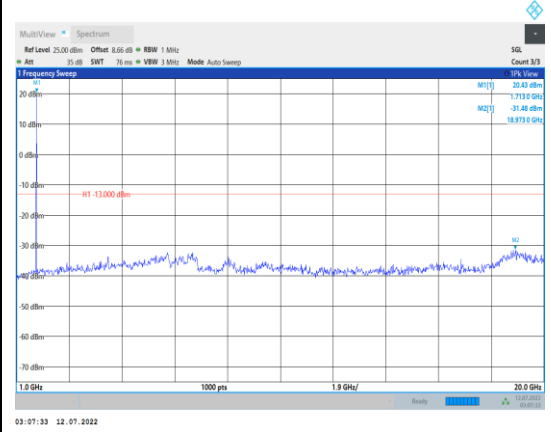
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Range2:1000~20000MHz**



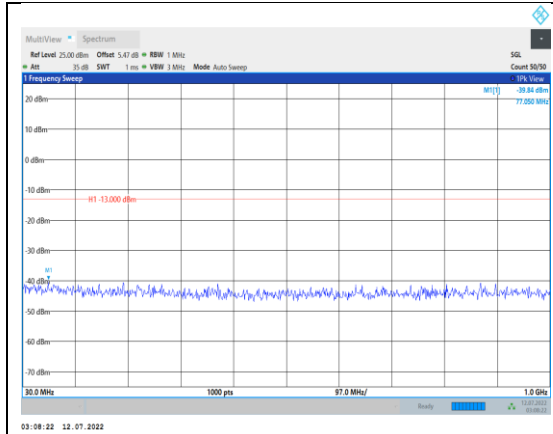
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Range1:30~1000MHz**



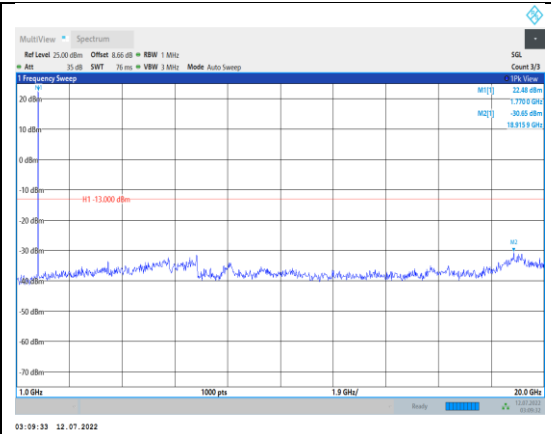
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Range1:30~1000MHz**



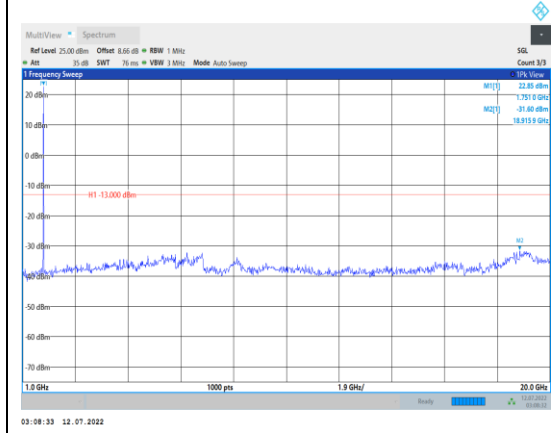
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Range2:1000~20000MHz**



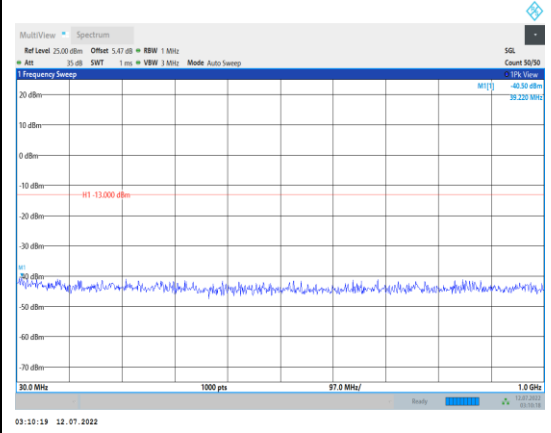
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Range1:30~1000MHz**



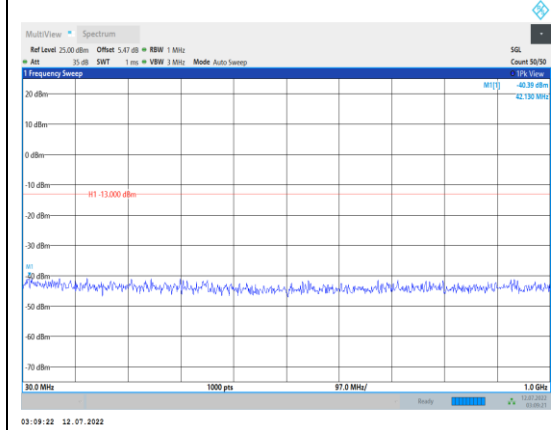
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Range2:1000~20000MHz**



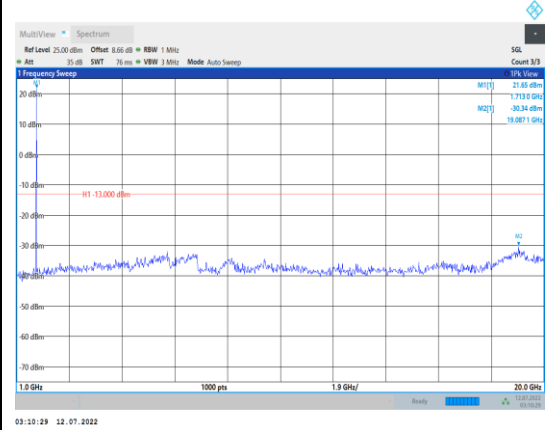
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Range2:1000~20000MHz**



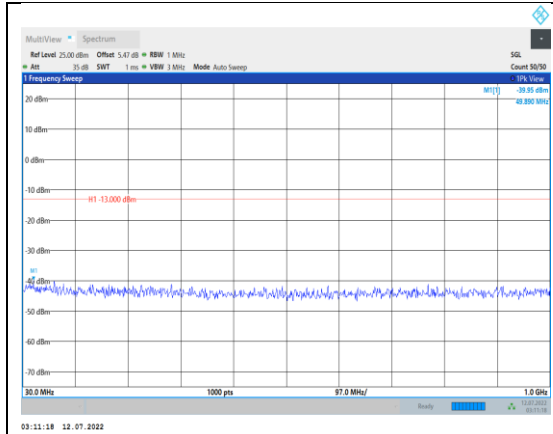
**Band66-3MHz-QPSK-131987-1RB#0-
Range1:30~1000MHz**



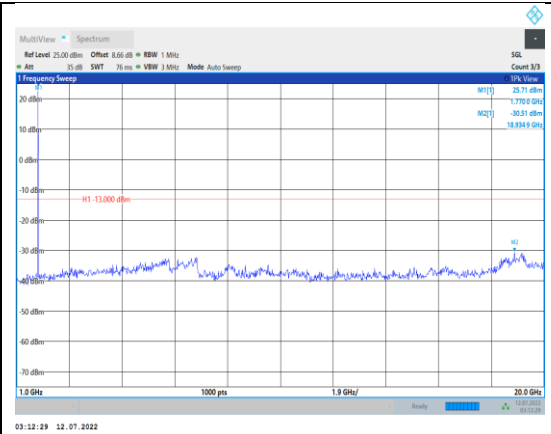
**Band66-1.4MHz-16QAM-132665-1RB#0-
Range1:30~1000MHz**



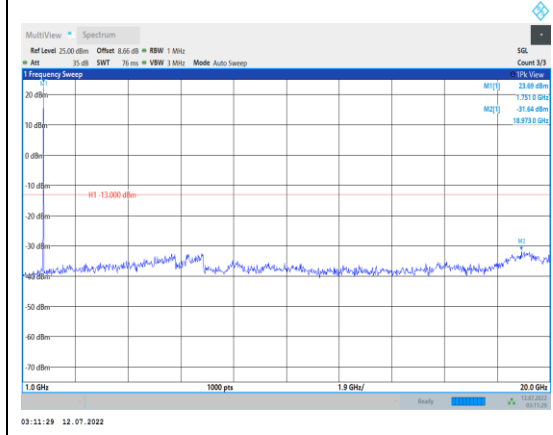
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Range2:1000~20000MHz**



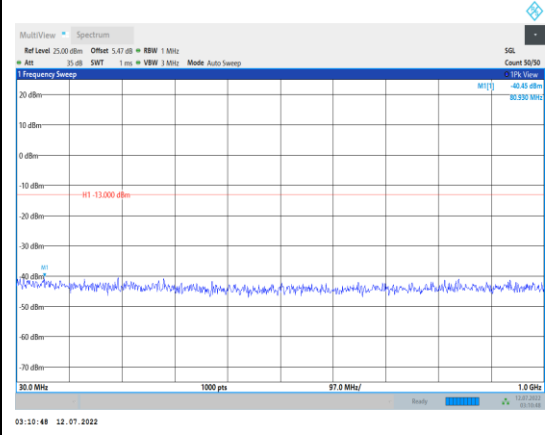
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Range1:30~1000MHz**



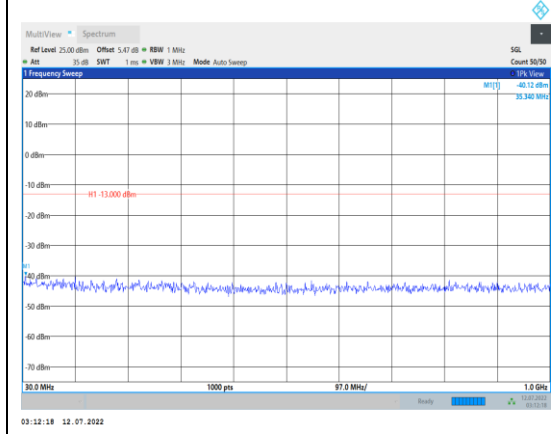
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Range2:1000~20000MHz**



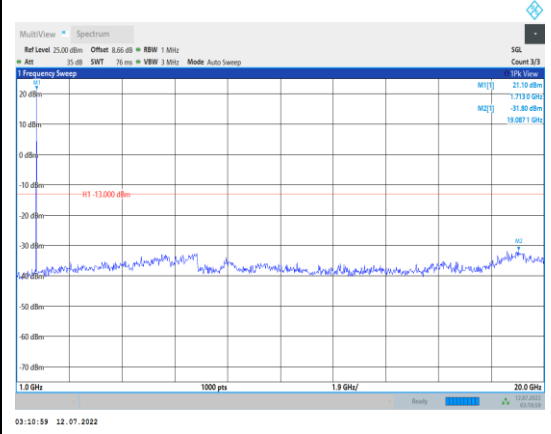
**Band66-3MHz-QPSK-132322-1RB#0-
Range2:1000~20000MHz**



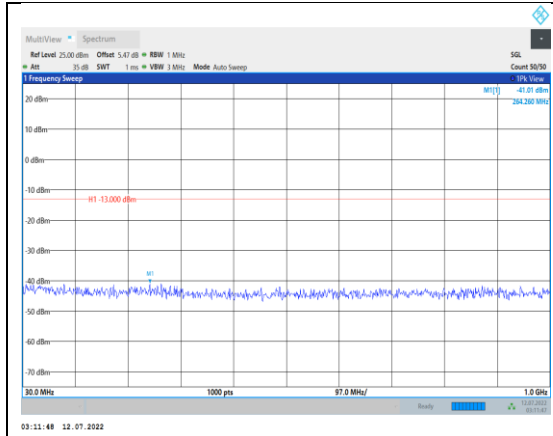
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Range1:30~1000MHz**



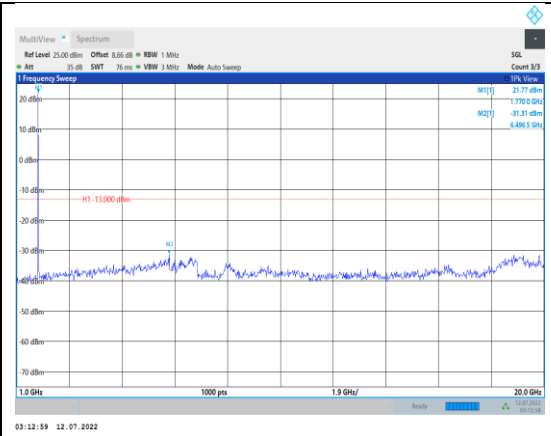
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Range1:30~1000MHz**



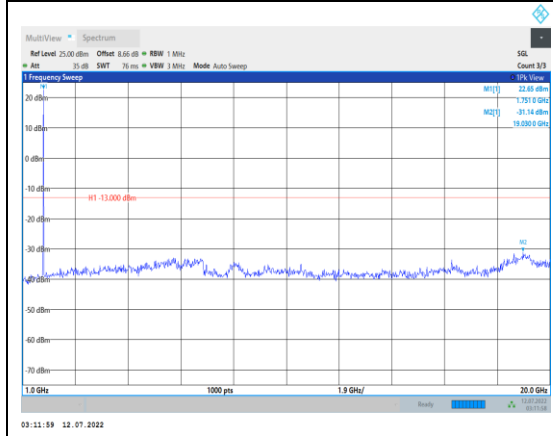
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Range2:1000~20000MHz**



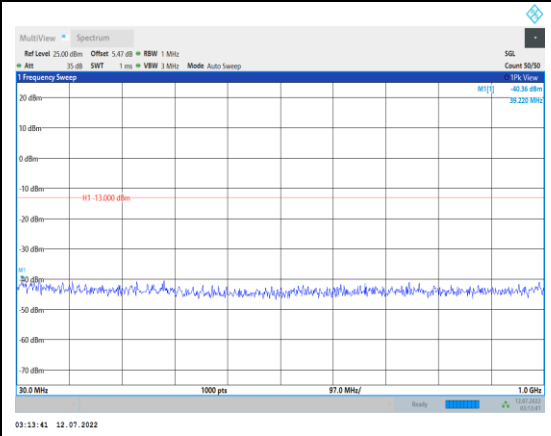
**Band66-3MHz-16QAM-132322-1RB#0-
Range1:30~1000MHz**



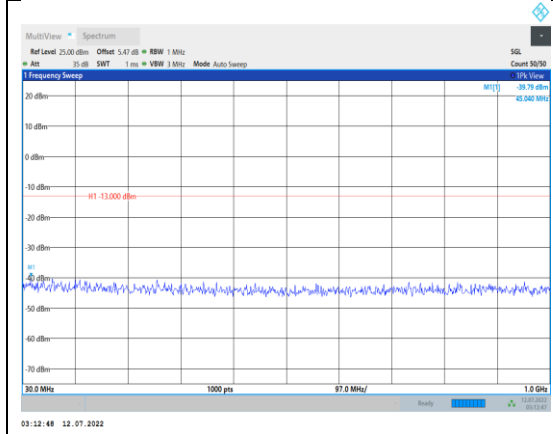
**Band66-3MHz-16QAM-132657-1RB#0-
Range2:1000~20000MHz**



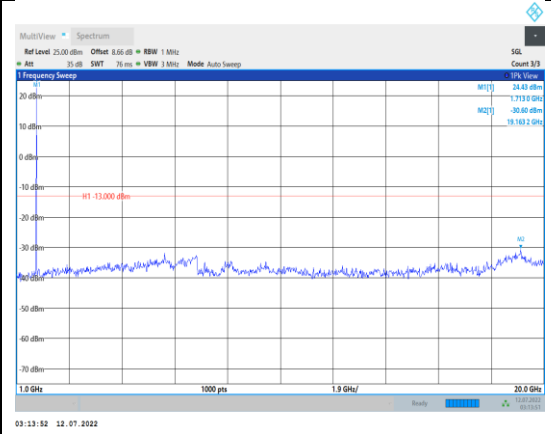
**Band66-3MHz-16QAM-132322-1RB#0-
Range2:1000~20000MHz**



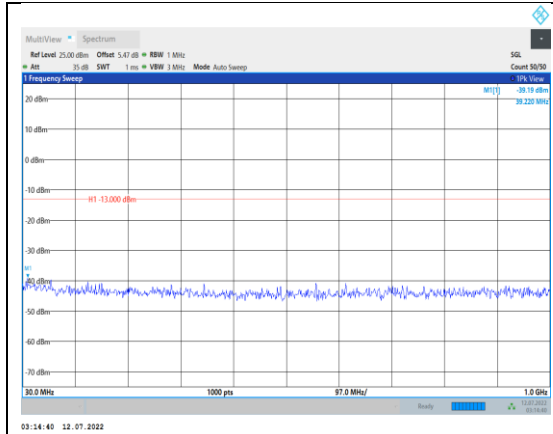
**Band66-5MHz-QPSK-131997-1RB#0-
Range1:30~1000MHz**



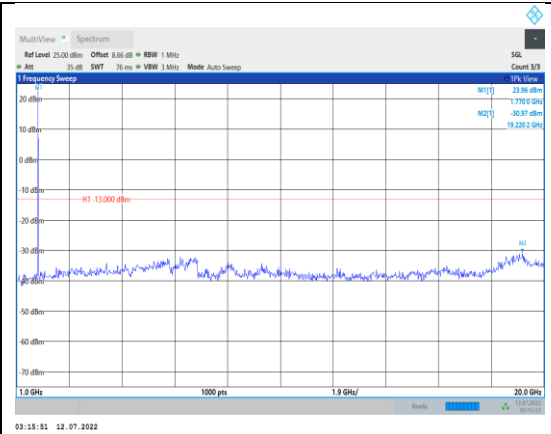
**Band66-3MHz-16QAM-132657-1RB#0-
Range1:30~1000MHz**



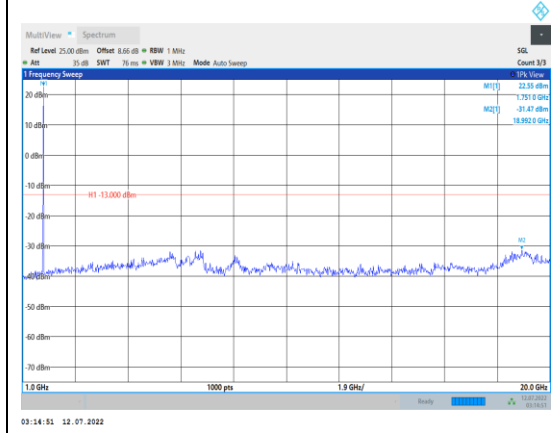
**Band66-5MHz-QPSK-131997-1RB#0-
Range2:1000~20000MHz**



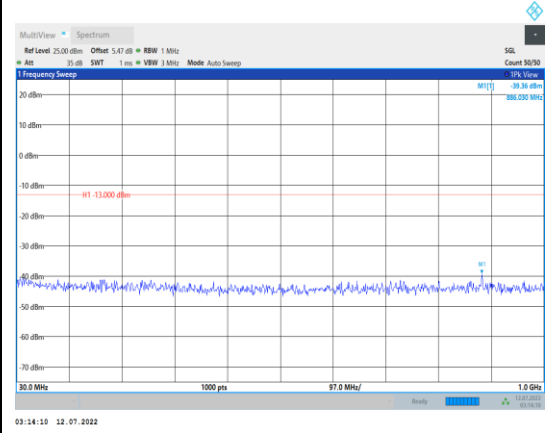
**Band66-5MHz-QPSK-132322-1RB#0-
Range1:30~1000MHz**



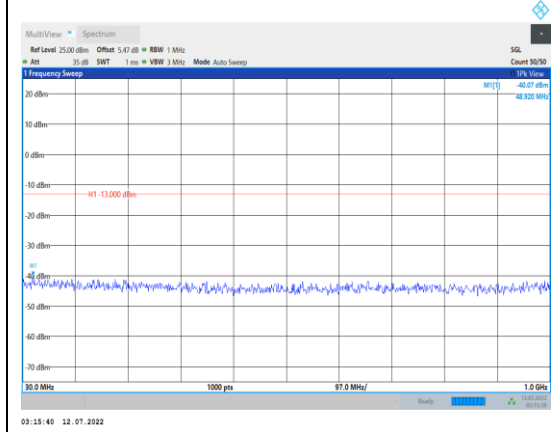
**Band66-5MHz-QPSK-132647-1RB#0-
Range2:1000~20000MHz**



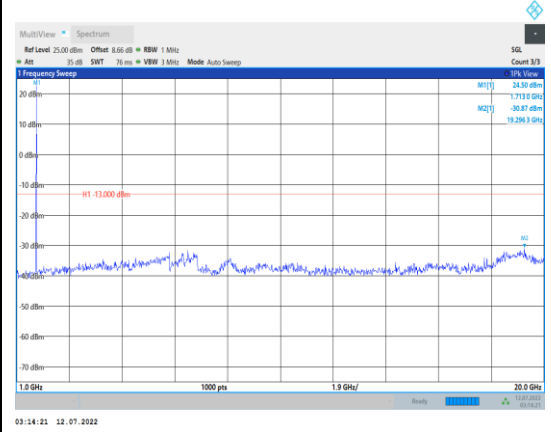
**Band66-5MHz-QPSK-132322-1RB#0-
Range2:1000~20000MHz**



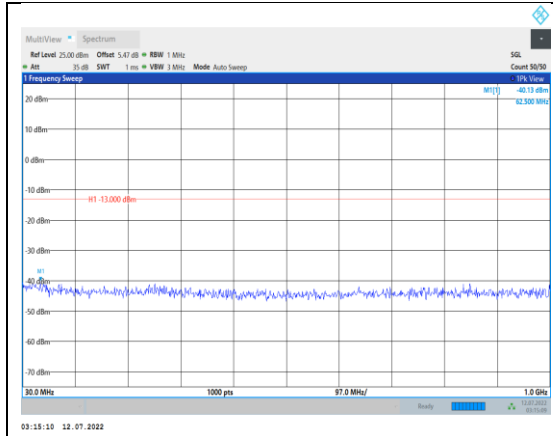
**Band66-5MHz-16QAM-131997-1RB#0-
Range1:30~1000MHz**



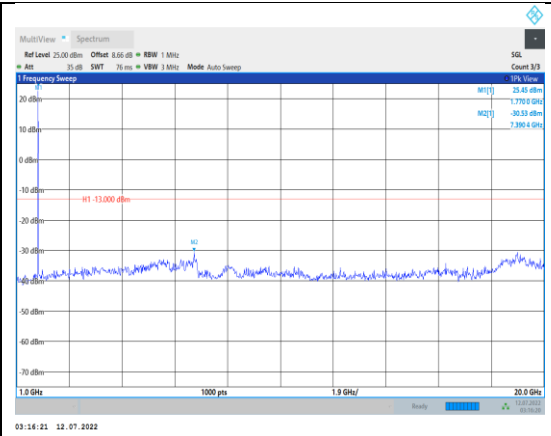
**Band66-5MHz-QPSK-132647-1RB#0-
Range1:30~1000MHz**



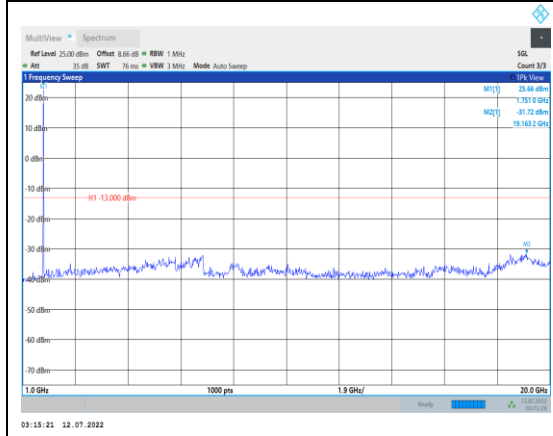
**Band66-5MHz-16QAM-131997-1RB#0-
Range2:1000~20000MHz**



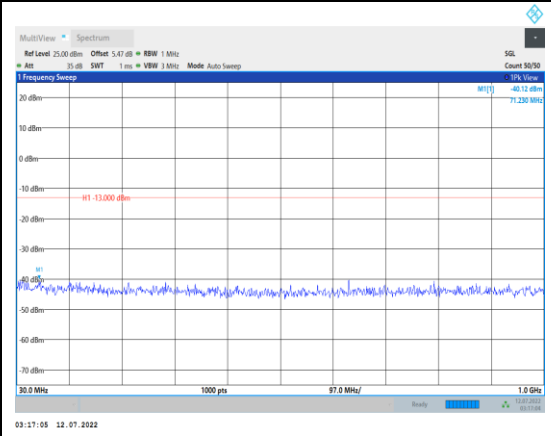
**Band66-5MHz-16QAM-132322-1RB#0-
Range1:30~1000MHz**



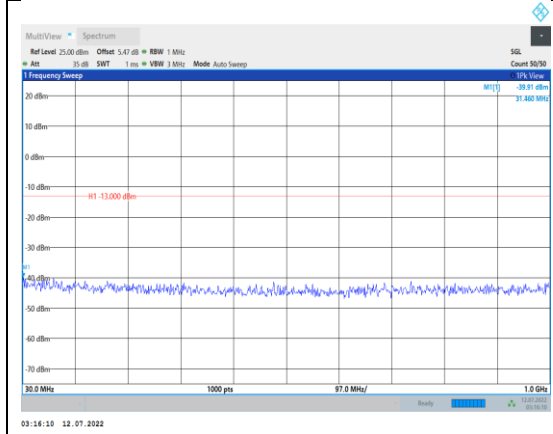
**Band66-5MHz-16QAM-132647-1RB#0-
Range2:1000~20000MHz**



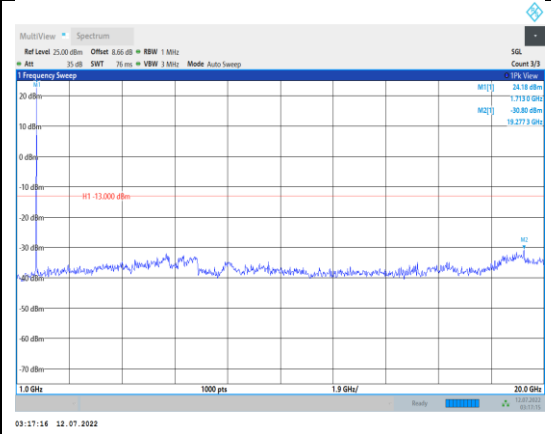
**Band66-5MHz-16QAM-132322-1RB#0-
Range2:1000~20000MHz**



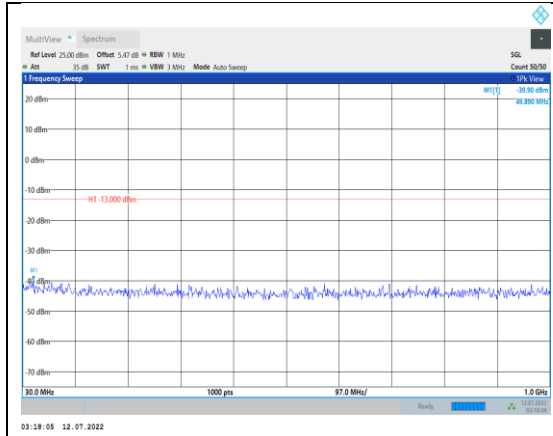
**Band66-10MHz-QPSK-132022-1RB#0-
Range1:30~1000MHz**



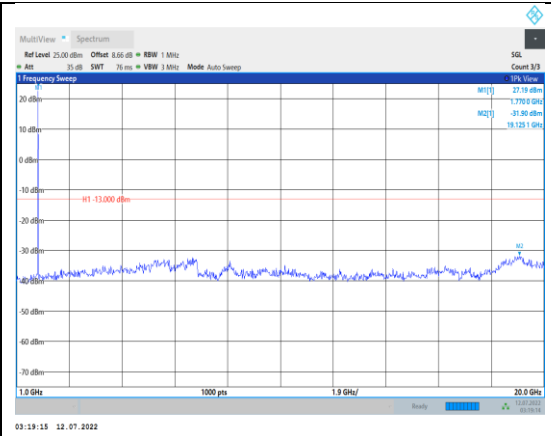
**Band66-5MHz-16QAM-132647-1RB#0-
Range1:30~1000MHz**



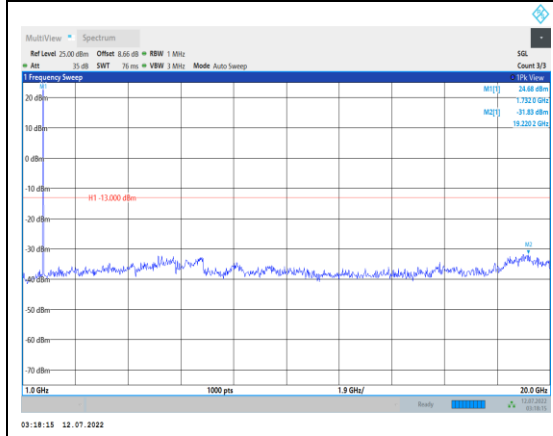
**Band66-10MHz-QPSK-132022-1RB#0-
Range2:1000~20000MHz**



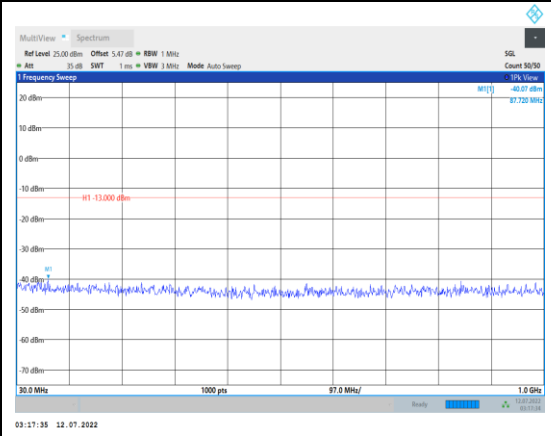
**Band66-10MHz-QPSK-132322-1RB#0-
Range1:30~1000MHz**



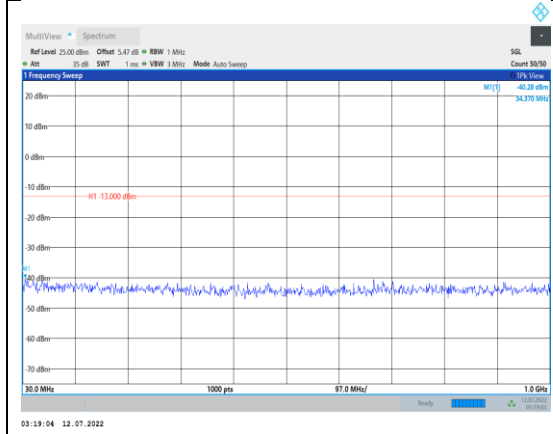
**Band66-10MHz-QPSK-132622-1RB#0-
Range2:1000~20000MHz**



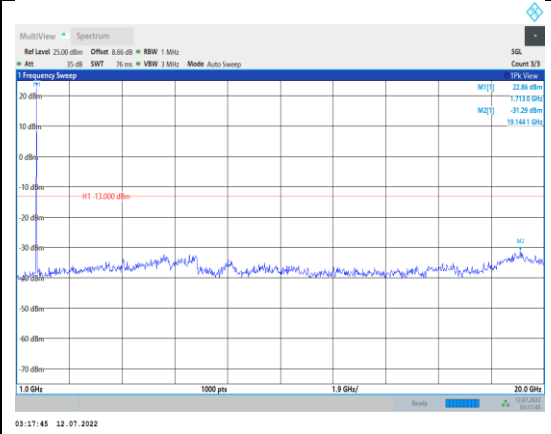
**Band66-10MHz-QPSK-132322-1RB#0-
Range2:1000~20000MHz**



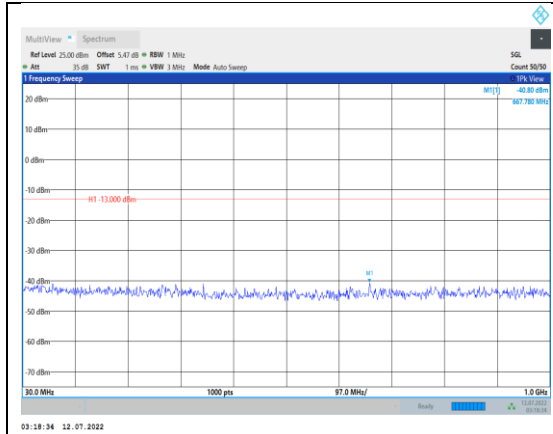
**Band66-10MHz-16QAM-132022-1RB#0-
Range1:30~1000MHz**



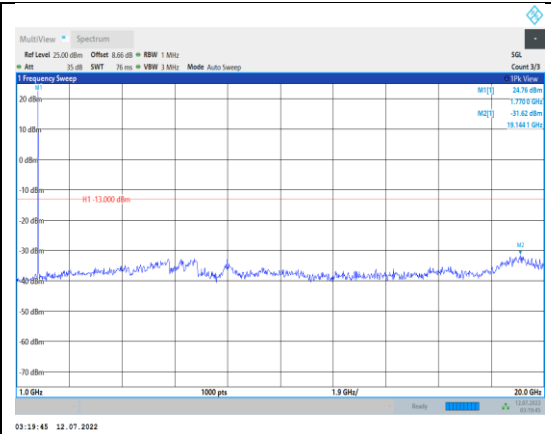
**Band66-10MHz-QPSK-132622-1RB#0-
Range1:30~1000MHz**



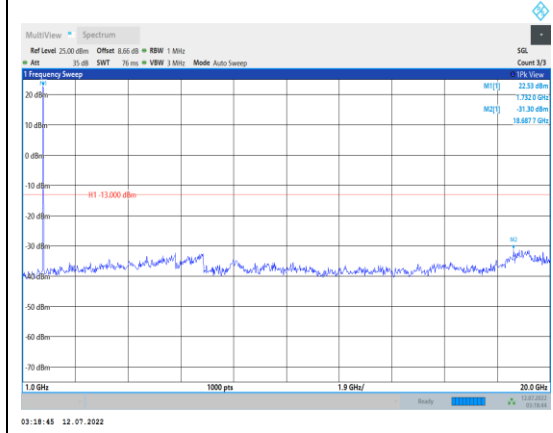
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Range2:1000~20000MHz**



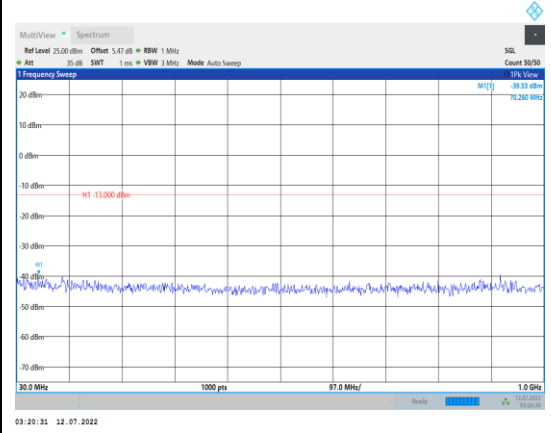
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Range1:30~1000MHz**



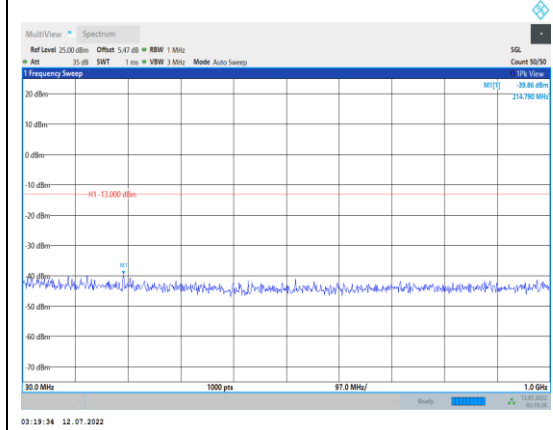
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Range2:1000~20000MHz**



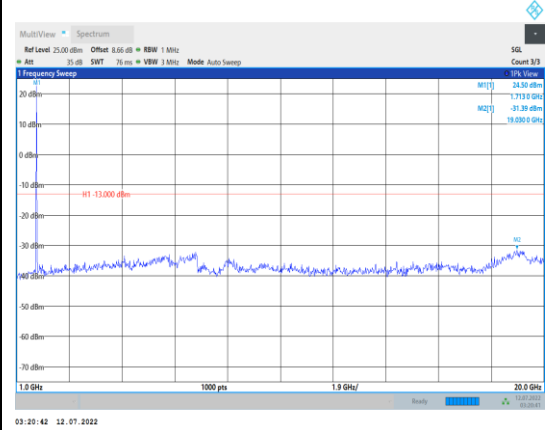
**Band66-10MHz-16QAM-132322-1RB#0-
Range2:1000~20000MHz**



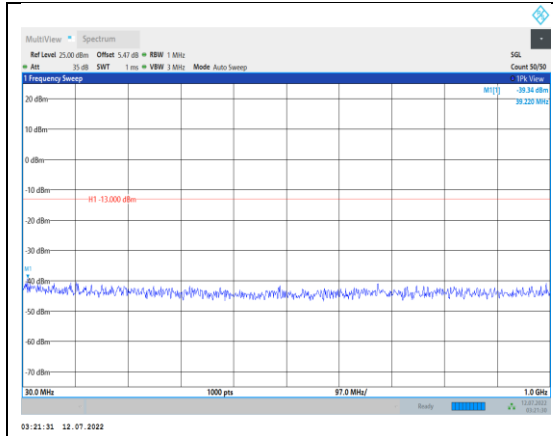
**Band66-15MHz-QPSK-132047-1RB#0-
Range1:30~1000MHz**



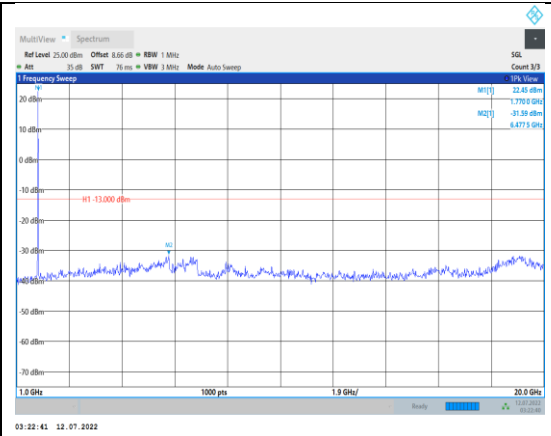
**Band66-10MHz-16QAM-132622-1RB#0-
Range1:30~1000MHz**



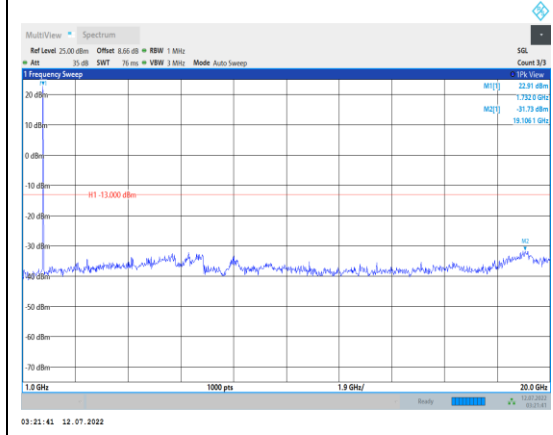
**Band66-15MHz-QPSK-132047-1RB#0-
Range2:1000~20000MHz**



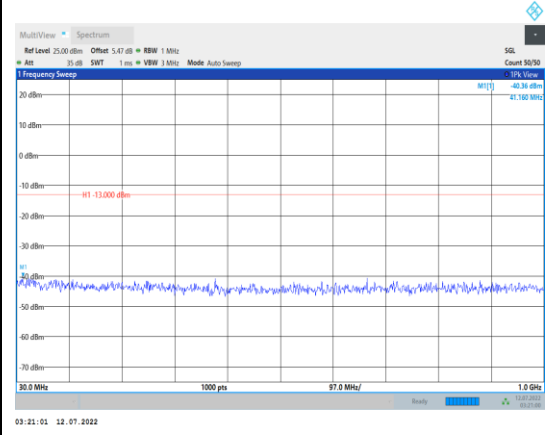
**Band66-15MHz-QPSK-132322-1RB#0-
Range1:30~1000MHz**



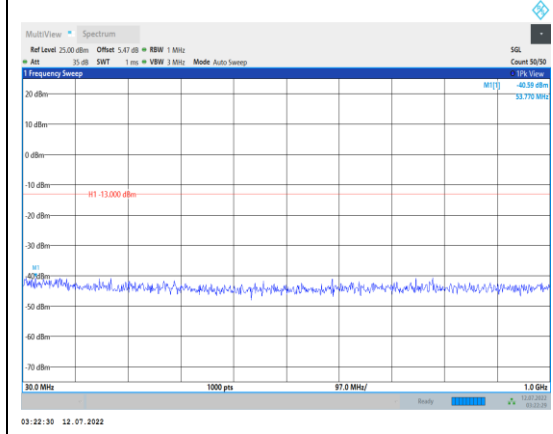
**Band66-15MHz-QPSK-132597-1RB#0-
Range2:1000~20000MHz**



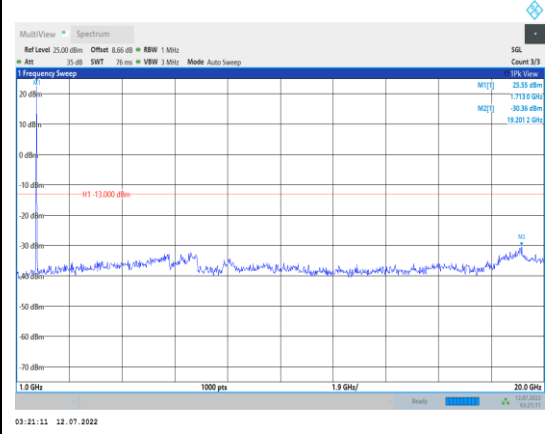
**Band66-15MHz-QPSK-132322-1RB#0-
Range2:1000~20000MHz**



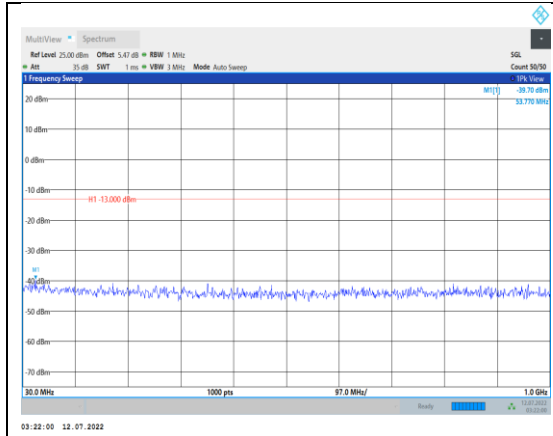
**Band66-15MHz-16QAM-132047-1RB#0-
Range1:30~1000MHz**



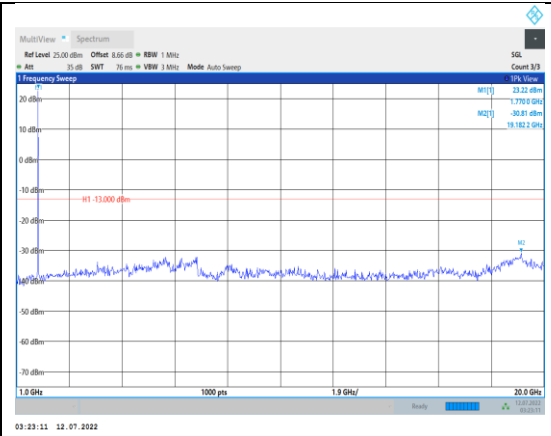
**Band66-15MHz-QPSK-132597-1RB#0-
Range1:30~1000MHz**



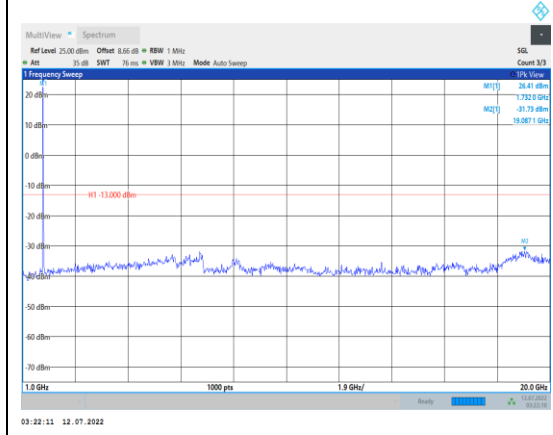
**Band66-15MHz-16QAM-132047-1RB#0-
Range2:1000~20000MHz**



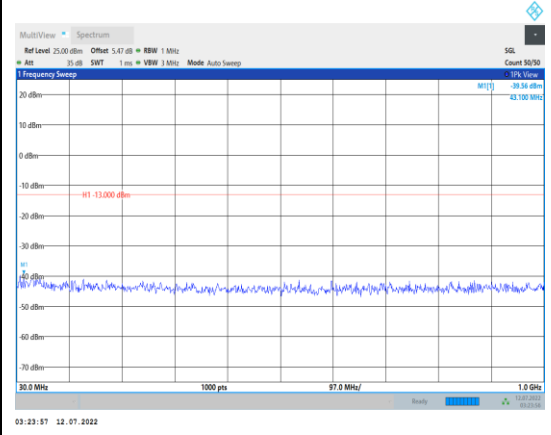
**Band66-15MHz-16QAM-132322-1RB#0-
Range1:30~1000MHz**



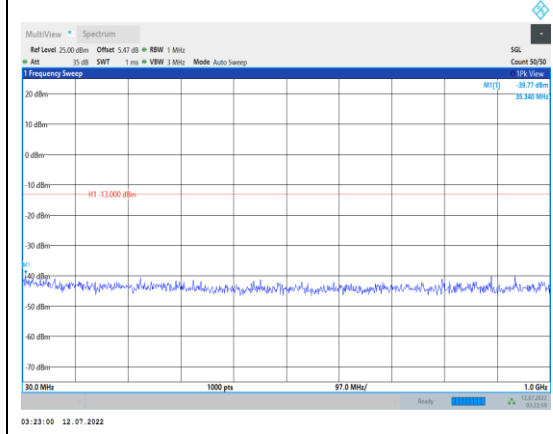
**Band66-15MHz-16QAM-132597-1RB#0-
Range2:1000~20000MHz**



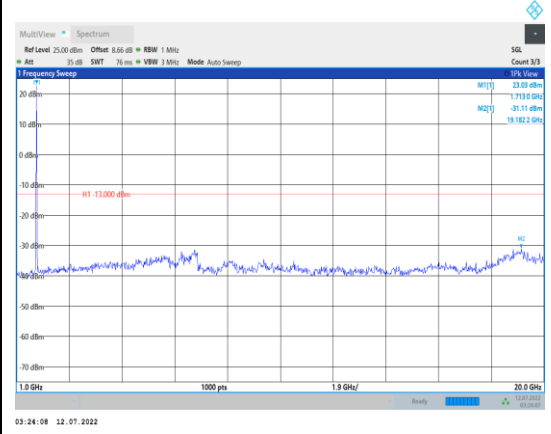
**Band66-15MHz-16QAM-132322-1RB#0-
Range2:1000~20000MHz**



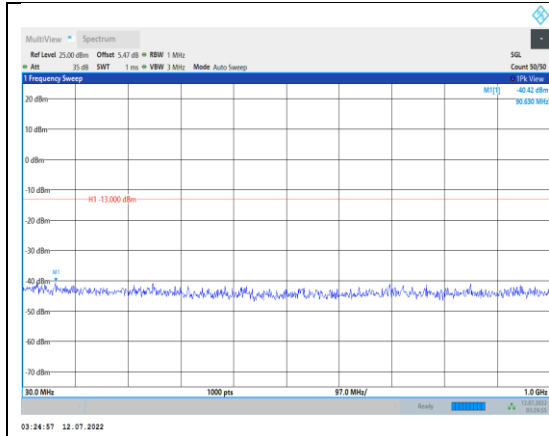
**Band66-20MHz-QPSK-132072-1RB#0-
Range1:30~1000MHz**



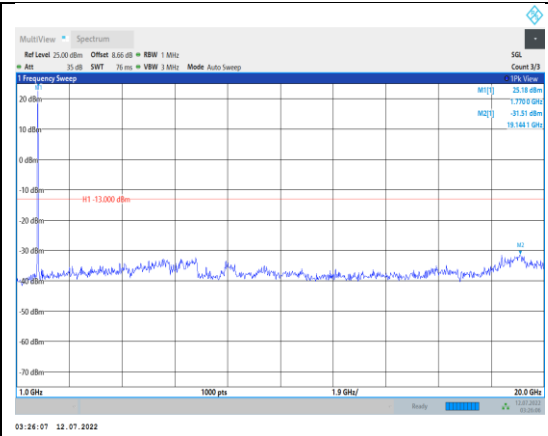
**Band66-15MHz-16QAM-132597-1RB#0-
Range1:30~1000MHz**



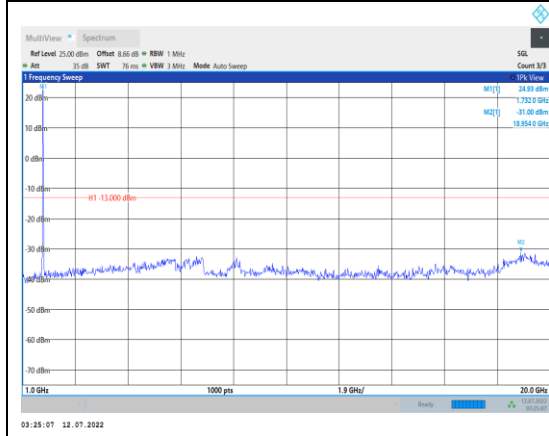
**Band66-20MHz-QPSK-132072-1RB#0-
Range2:1000~20000MHz**



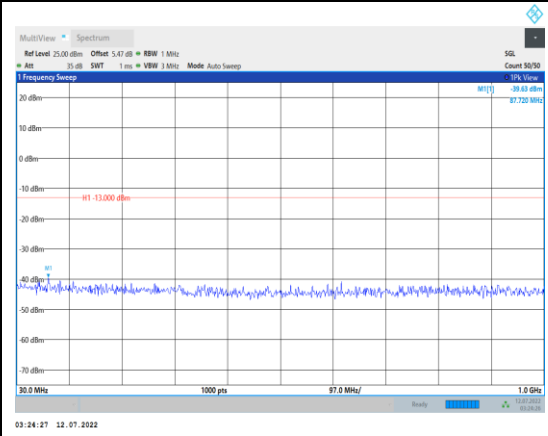
**Band66-20MHz-QPSK-132322-1RB#0-
Range1:30~1000MHz**



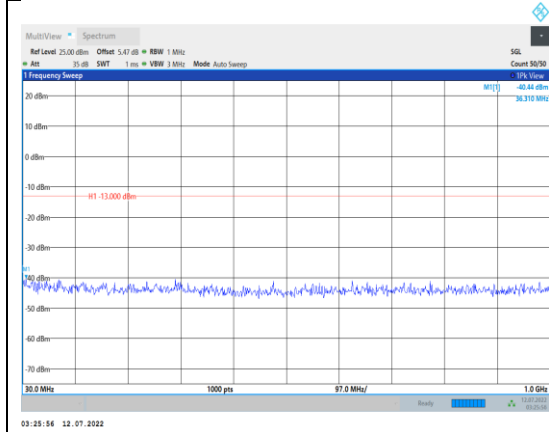
**Band66-20MHz-QPSK-132572-1RB#0-
Range2:1000~20000MHz**



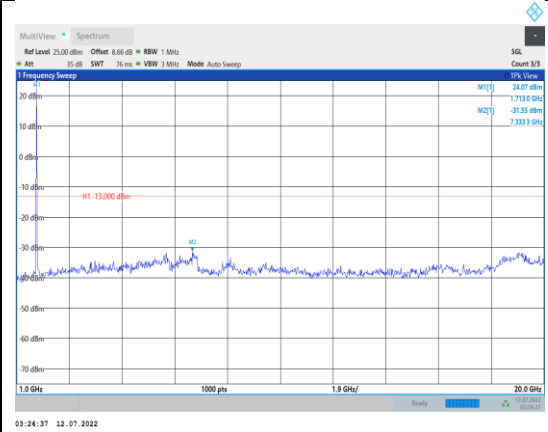
**Band66-20MHz-QPSK-132322-1RB#0-
Range2:1000~20000MHz**



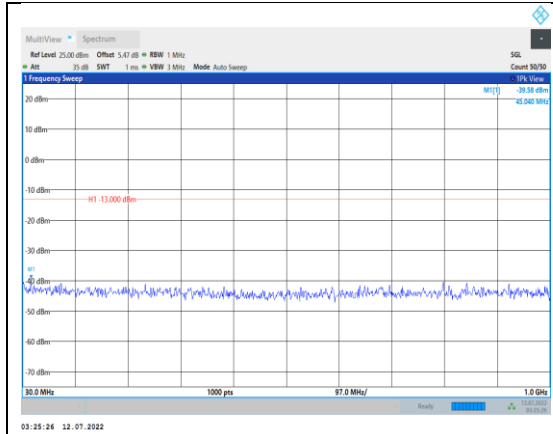
**Band66-20MHz-16QAM-132072-1RB#0-
Range1:30~1000MHz**



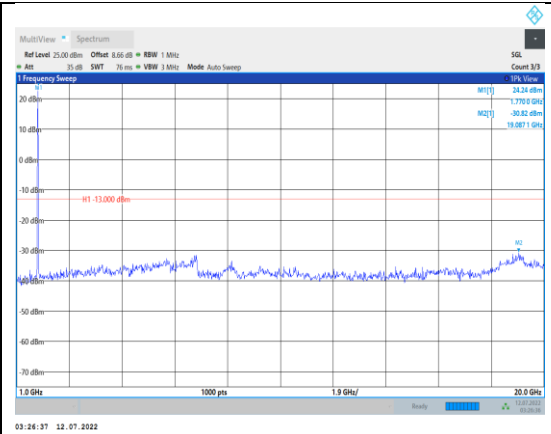
**Band66-20MHz-QPSK-132572-1RB#0-
Range1:30~1000MHz**



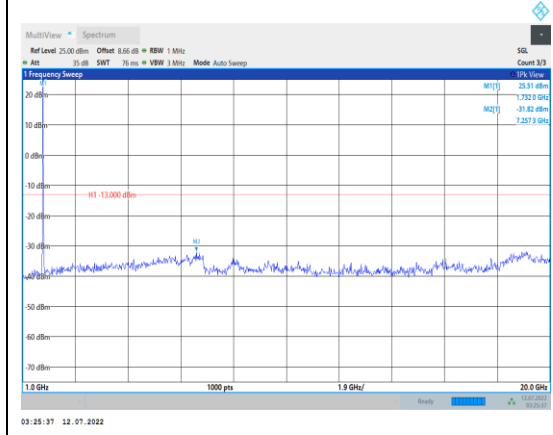
**Band66-20MHz-16QAM-132072-1RB#0-
Range2:1000~20000MHz**



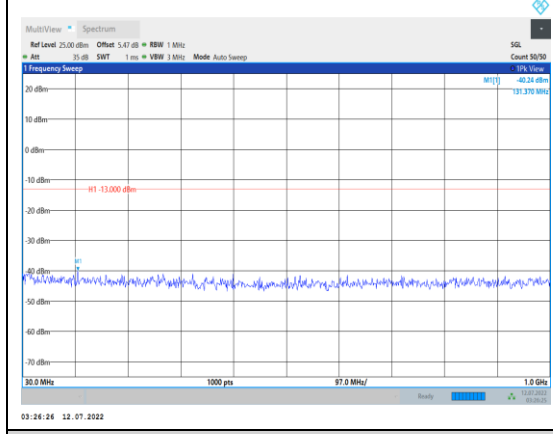
**Band66-20MHz-16QAM-132322-1RB#0-
 Range1:30~1000MHz**



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



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



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

12. APPENDIX F: FREQUENCY STABILITY

Frequency Error vs. Voltage:

GSM:

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	-0.002196	±2.5	PASS
GSM850	128	VN	NT	0.002427	±2.5	PASS
GSM850	128	VH	NT	0.006576	±2.5	PASS
GSM850	190	VL	NT	0.004937	±2.5	PASS
GSM850	190	VN	NT	0.005833	±2.5	PASS
GSM850	190	VH	NT	0.000383	±2.5	PASS
GSM850	251	VL	NT	0.005054	±2.5	PASS
GSM850	251	VN	NT	-0.004524	±2.5	PASS
GSM850	251	VH	NT	0.003311	±2.5	PASS
GPRS850	128	VL	NT	0.009160	±2.5	PASS
GPRS850	128	VN	NT	0.007947	±2.5	PASS
GPRS850	128	VH	NT	0.006540	±2.5	PASS
GPRS850	190	VL	NT	0.009072	±2.5	PASS
GPRS850	190	VN	NT	0.018133	±2.5	PASS
GPRS850	190	VH	NT	0.008917	±2.5	PASS
GPRS850	251	VL	NT	0.014526	±2.5	PASS
GPRS850	251	VN	NT	0.018261	±2.5	PASS
GPRS850	251	VH	NT	0.008754	±2.5	PASS
EGPRS850	128	VL	NT	0.011405	±2.5	PASS
EGPRS850	128	VN	NT	0.008384	±2.5	PASS
EGPRS850	128	VH	NT	0.008857	±2.5	PASS
EGPRS850	190	VL	NT	0.012192	±2.5	PASS
EGPRS850	190	VN	NT	0.014547	±2.5	PASS
EGPRS850	190	VH	NT	0.005869	±2.5	PASS
EGPRS850	251	VL	NT	0.014303	±2.5	PASS
EGPRS850	251	VN	NT	0.013772	±2.5	PASS
EGPRS850	251	VH	NT	0.012512	±2.5	PASS
GSM1900	512	VL	NT	0.007102	±2.5	PASS
GSM1900	512	VN	NT	0.003962	±2.5	PASS
GSM1900	512	VH	NT	0.009194	±2.5	PASS
GSM1900	661	VL	NT	-0.002197	±2.5	PASS
GSM1900	661	VN	NT	0.005580	±2.5	PASS
GSM1900	661	VH	NT	0.005601	±2.5	PASS
GSM1900	810	VL	NT	0.005006	±2.5	PASS
GSM1900	810	VN	NT	0.003095	±2.5	PASS
GSM1900	810	VH	NT	0.005917	±2.5	PASS
GPRS1900	512	VL	NT	0.006264	±2.5	PASS
GPRS1900	512	VN	NT	0.006734	±2.5	PASS
GPRS1900	512	VH	NT	0.009718	±2.5	PASS

GPRS1900	661	VL	NT	0.002835	±2.5	PASS
GPRS1900	661	VN	NT	0.006319	±2.5	PASS
GPRS1900	661	VH	NT	0.001872	±2.5	PASS
GPRS1900	810	VL	NT	0.009975	±2.5	PASS
GPRS1900	810	VN	NT	-0.001487	±2.5	PASS
GPRS1900	810	VH	NT	0.010043	±2.5	PASS
EGPRS1900	512	VL	NT	-0.002929	±2.5	PASS
EGPRS1900	512	VN	NT	0.007588	±2.5	PASS
EGPRS1900	512	VH	NT	0.000908	±2.5	PASS
EGPRS1900	661	VL	NT	-0.004138	±2.5	PASS
EGPRS1900	661	VN	NT	0.005649	±2.5	PASS
EGPRS1900	661	VH	NT	0.000809	±2.5	PASS
EGPRS1900	810	VL	NT	0.001539	±2.5	PASS
EGPRS1900	810	VN	NT	0.001168	±2.5	PASS
EGPRS1900	810	VH	NT	0.002147	±2.5	PASS

WCDMA:

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Limit (ppm)	Verdict
Band2	9262	VL	NT	-0.84	±2.5	PASS
Band2	9262	VN	NT	-0.67	±2.5	PASS
Band2	9262	VH	NT	-0.73	±2.5	PASS
Band2	9400	VL	NT	-1.37	±2.5	PASS
Band2	9400	VN	NT	-1.45	±2.5	PASS
Band2	9400	VH	NT	-0.30	±2.5	PASS
Band2	9538	VL	NT	3.45	±2.5	PASS
Band2	9538	VN	NT	-0.25	±2.5	PASS
Band2	9538	VH	NT	-1.28	±2.5	PASS
Band4	1312	VL	NT	-1.48	±2.5	PASS
Band4	1312	VN	NT	-0.36	±2.5	PASS
Band4	1312	VH	NT	1.78	±2.5	PASS
Band4	1413	VL	NT	-1.05	±2.5	PASS
Band4	1413	VN	NT	-2.57	±2.5	PASS
Band4	1413	VH	NT	-0.07	±2.5	PASS
Band4	1513	VL	NT	0.53	±2.5	PASS
Band4	1513	VN	NT	-2.44	±2.5	PASS
Band4	1513	VH	NT	-0.60	±2.5	PASS
Band5	4132	VL	NT	0.26	±2.5	PASS
Band5	4132	VN	NT	-0.63	±2.5	PASS
Band5	4132	VH	NT	-0.16	±2.5	PASS
Band5	4182	VL	NT	0.44	±2.5	PASS
Band5	4182	VN	NT	-0.11	±2.5	PASS
Band5	4182	VH	NT	1.21	±2.5	PASS
Band5	4233	VL	NT	0.36	±2.5	PASS
Band5	4233	VN	NT	-0.27	±2.5	PASS
Band5	4233	VH	NT	0.38	±2.5	PASS

LTE:

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	1.4MHz	QPSK	18900	6RB#0	VL	NT	-0.023191	±2.5	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	VN	NT	-0.024309	±2.5	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	VH	NT	-0.001436	±2.5	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	VL	NT	0.004628	±2.5	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	VN	NT	0.008511	±2.5	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	VH	NT	0.002181	±2.5	PASS
Band2	3MHz	QPSK	18900	15RB#0	VL	NT	-0.011862	±2.5	PASS
Band2	3MHz	QPSK	18900	15RB#0	VN	NT	-0.011915	±2.5	PASS
Band2	3MHz	QPSK	18900	15RB#0	VH	NT	-0.017979	±2.5	PASS
Band2	3MHz	16QAM	18900	15RB#0	VL	NT	-0.011117	±2.5	PASS
Band2	3MHz	16QAM	18900	15RB#0	VN	NT	0.002553	±2.5	PASS
Band2	3MHz	16QAM	18900	15RB#0	VH	NT	-0.004787	±2.5	PASS
Band2	5MHz	QPSK	18900	25RB#0	VL	NT	-0.010053	±2.5	PASS
Band2	5MHz	QPSK	18900	25RB#0	VN	NT	-0.017287	±2.5	PASS
Band2	5MHz	QPSK	18900	25RB#0	VH	NT	-0.003511	±2.5	PASS
Band2	5MHz	16QAM	18900	25RB#0	VL	NT	-0.004947	±2.5	PASS
Band2	5MHz	16QAM	18900	25RB#0	VN	NT	-0.001702	±2.5	PASS
Band2	5MHz	16QAM	18900	25RB#0	VH	NT	-0.027766	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	VL	NT	-0.024521	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	VN	NT	-0.012553	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	VH	NT	-0.026117	±2.5	PASS
Band2	10MHz	16QAM	18900	50RB#0	VL	NT	-0.017181	±2.5	PASS
Band2	10MHz	16QAM	18900	50RB#0	VN	NT	-0.008245	±2.5	PASS
Band2	10MHz	16QAM	18900	50RB#0	VH	NT	-0.014362	±2.5	PASS
Band2	15MHz	QPSK	18900	75RB#0	LV	NT	-0.007553	±2.5	PASS
Band2	15MHz	QPSK	18900	75RB#0	NV	NT	-0.006277	±2.5	PASS
Band2	15MHz	QPSK	18900	75RB#0	HV	NT	-0.012181	±2.5	PASS
Band2	15MHz	16QAM	18900	75RB#0	LV	NT	-0.015691	±2.5	PASS
Band2	15MHz	16QAM	18900	75RB#0	NV	NT	-0.021064	±2.5	PASS
Band2	15MHz	16QAM	18900	75RB#0	HV	NT	-0.023564	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-0.022872	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-0.024096	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-0.003085	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-0.025745	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-0.017553	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-0.009149	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	VL	NT	-0.005541	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	VN	NT	-0.004560	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	VH	NT	-0.024589	±2.5	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	VL	NT	-0.006349	±2.5	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	VN	NT	-0.023608	±2.5	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	VH	NT	-0.012525	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	VL	NT	-0.018240	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	VN	NT	-0.024358	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	VH	NT	-0.022511	±2.5	PASS
Band4	3MHz	16QAM	20175	15RB#0	VL	NT	0.004329	±2.5	PASS

Band4	3MHz	16QAM	20175	15RB#0	VN	NT	-0.008139	±2.5	PASS
Band4	3MHz	16QAM	20175	15RB#0	VH	NT	-0.002136	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VL	NT	-0.015238	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VN	NT	-0.018874	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VH	NT	-0.010563	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	VL	NT	-0.005483	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	VN	NT	-0.016681	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	VH	NT	-0.005657	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VL	NT	-0.002367	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VN	NT	-0.020606	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VH	NT	-0.020202	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	VL	NT	-0.018355	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	VN	NT	-0.020144	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	VH	NT	-0.015296	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VL	NT	-0.017316	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VN	NT	-0.024473	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VH	NT	-0.012525	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	VL	NT	-0.013276	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	VN	NT	-0.005599	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	VH	NT	-0.008023	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-0.012525	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.006003	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.013853	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-0.005945	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.013853	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	0.010736	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-0.031441	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	-0.016378	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-0.055350	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	-0.039450	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	-0.025702	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	-0.000120	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	-0.058219	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	-0.031321	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	-0.038852	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VL	NT	-0.045308	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	-0.025344	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	-0.020921	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-0.004662	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	0.011476	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-0.029050	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	-0.028691	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	-0.046025	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	-0.015780	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.007531	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.014943	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.014704	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-0.042439	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.040646	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.043036	±2.5	PASS

Band7	5MHz	QPSK	21100	25RB#0	VL	NT	-0.012387	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VN	NT	-0.013688	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VH	NT	-0.006430	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VL	NT	0.006982	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VN	NT	-0.003274	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VH	NT	0.014241	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VL	NT	-0.005957	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VN	NT	-0.016489	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VH	NT	-0.008757	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VL	NT	0.005759	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VN	NT	-0.005286	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VH	NT	0.014280	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VL	NT	-0.011519	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VN	NT	0.002604	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VH	NT	-0.013570	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VL	NT	0.000750	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VN	NT	-0.003471	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VH	NT	0.011440	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	0.001657	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-0.013609	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-0.009586	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	0.016410	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	0.013688	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	0.007298	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-0.024297	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	-0.037724	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-0.054220	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-0.052046	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-0.063939	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	-0.042711	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-0.058568	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.040921	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.020972	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-0.065090	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-0.021228	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-0.030946	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	-0.013873	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	-0.002543	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	-0.022697	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	0.005472	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	0.010289	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	0.008709	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VL	NT	-0.021811	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VN	NT	-0.011676	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VH	NT	-0.019114	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VL	NT	-0.013642	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VN	NT	-0.014489	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VH	NT	-0.003931	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VL	NT	-0.011060	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VN	NT	-0.010906	±2.5	PASS

Band38	15MHz	QPSK	38000	75RB#0	VH	NT	-0.013680	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VL	NT	-0.020771	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VN	NT	-0.014836	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VH	NT	-0.009827	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-0.010443	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-0.010405	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-0.012408	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-0.007784	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-0.012331	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-0.002197	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VL	NT	-0.002430	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VN	NT	0.002854	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VH	NT	-0.018357	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VL	NT	0.002352	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VN	NT	-0.004512	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VH	NT	0.010181	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VL	NT	-0.008947	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VN	NT	-0.020980	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VH	NT	-0.023949	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VL	NT	0.001581	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VN	NT	-0.013035	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VH	NT	-0.014308	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VL	NT	-0.007983	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VN	NT	-0.004666	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VH	NT	-0.014963	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VL	NT	0.001427	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VN	NT	-0.012225	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VH	NT	-0.004088	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.008716	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-0.007057	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-0.017894	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-0.002815	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-0.017470	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	0.004319	±2.5	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	VL	NT	-0.016160	±2.5	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	VN	NT	-0.011003	±2.5	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	VH	NT	-0.011691	±2.5	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	VL	NT	-0.013868	±2.5	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	VN	NT	-0.020745	±2.5	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	VH	NT	-0.010716	±2.5	PASS
Band66	3MHz	QPSK	132322	15RB#0	VL	NT	-0.024699	±2.5	PASS
Band66	3MHz	QPSK	132322	15RB#0	VN	NT	-0.017020	±2.5	PASS
Band66	3MHz	QPSK	132322	15RB#0	VH	NT	-0.023095	±2.5	PASS
Band66	3MHz	16QAM	132322	15RB#0	VL	NT	-0.017708	±2.5	PASS
Band66	3MHz	16QAM	132322	15RB#0	VN	NT	-0.018223	±2.5	PASS
Band66	3MHz	16QAM	132322	15RB#0	VH	NT	-0.014785	±2.5	PASS
Band66	5MHz	QPSK	132322	25RB#0	VL	NT	-0.009112	±2.5	PASS
Band66	5MHz	QPSK	132322	25RB#0	VN	NT	-0.007106	±2.5	PASS
Band66	5MHz	QPSK	132322	25RB#0	VH	NT	-0.006934	±2.5	PASS
Band66	5MHz	16QAM	132322	25RB#0	VL	NT	-0.010659	±2.5	PASS

Band66	5MHz	16QAM	132322	25RB#0	VN	NT	-0.011862	±2.5	PASS
Band66	5MHz	16QAM	132322	25RB#0	VH	NT	-0.009570	±2.5	PASS
Band66	10MHz	QPSK	132322	50RB#0	VL	NT	0.004585	±2.5	PASS
Band66	10MHz	QPSK	132322	50RB#0	VN	NT	-0.013123	±2.5	PASS
Band66	10MHz	QPSK	132322	50RB#0	VH	NT	-0.025387	±2.5	PASS
Band66	10MHz	16QAM	132322	50RB#0	VL	NT	0.007335	±2.5	PASS
Band66	10MHz	16QAM	132322	50RB#0	VN	NT	0.005158	±2.5	PASS
Band66	10MHz	16QAM	132322	50RB#0	VH	NT	0.012665	±2.5	PASS
Band66	15MHz	QPSK	132322	75RB#0	VL	NT	-0.015301	±2.5	PASS
Band66	15MHz	QPSK	132322	75RB#0	VN	NT	-0.011691	±2.5	PASS
Band66	15MHz	QPSK	132322	75RB#0	VH	NT	-0.008080	±2.5	PASS
Band66	15MHz	16QAM	132322	75RB#0	VL	NT	-0.011175	±2.5	PASS
Band66	15MHz	16QAM	132322	75RB#0	VN	NT	-0.013410	±2.5	PASS
Band66	15MHz	16QAM	132322	75RB#0	VH	NT	-0.003438	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-0.021948	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-0.016275	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	0.008711	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	0.009398	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	0.001203	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	0.016046	±2.5	PASS

Frequency Error vs. Temperature:

GSM:

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	0.005047	±2.5	PASS
GSM850	128	NV	-20	0.001529	±2.5	PASS
GSM850	128	NV	-10	0.001602	±2.5	PASS
GSM850	128	NV	0	0.006382	±2.5	PASS
GSM850	128	NV	10	0.007595	±2.5	PASS
GSM850	128	NV	20	-0.002706	±2.5	PASS
GSM850	128	NV	30	0.007171	±2.5	PASS
GSM850	128	NV	40	0.006697	±2.5	PASS
GSM850	128	NV	50	0.010531	±2.5	PASS
GSM850	190	NV	-30	0.001470	±2.5	PASS
GSM850	190	NV	-20	0.008415	±2.5	PASS
GSM850	190	NV	-10	0.007327	±2.5	PASS
GSM850	190	NV	0	0.008176	±2.5	PASS
GSM850	190	NV	10	0.001781	±2.5	PASS
GSM850	190	NV	20	0.012814	±2.5	PASS
GSM850	190	NV	30	0.013316	±2.5	PASS
GSM850	190	NV	40	0.006754	±2.5	PASS
GSM850	190	NV	50	-0.000347	±2.5	PASS
GSM850	251	NV	-30	-0.001944	±2.5	PASS
GSM850	251	NV	-20	0.002698	±2.5	PASS
GSM850	251	NV	-10	0.006091	±2.5	PASS
GSM850	251	NV	0	-0.000118	±2.5	PASS
GSM850	251	NV	10	-0.000271	±2.5	PASS
GSM850	251	NV	20	0.004371	±2.5	PASS
GSM850	251	NV	30	-0.006385	±2.5	PASS
GSM850	251	NV	40	0.000495	±2.5	PASS
GSM850	251	NV	50	-0.002663	±2.5	PASS
GPRS850	128	NV	-30	0.004186	±2.5	PASS
GPRS850	128	NV	-20	0.009561	±2.5	PASS
GPRS850	128	NV	-10	0.010738	±2.5	PASS
GPRS850	128	NV	0	0.007680	±2.5	PASS
GPRS850	128	NV	10	0.011126	±2.5	PASS
GPRS850	128	NV	20	0.011599	±2.5	PASS
GPRS850	128	NV	30	0.011126	±2.5	PASS
GPRS850	128	NV	40	0.014608	±2.5	PASS
GPRS850	128	NV	50	0.006782	±2.5	PASS
GPRS850	190	NV	-30	0.005977	±2.5	PASS
GPRS850	190	NV	-20	0.007184	±2.5	PASS
GPRS850	190	NV	-10	0.006024	±2.5	PASS
GPRS850	190	NV	0	0.006825	±2.5	PASS
GPRS850	190	NV	10	0.008295	±2.5	PASS
GPRS850	190	NV	20	0.011188	±2.5	PASS
GPRS850	190	NV	30	0.013005	±2.5	PASS
GPRS850	190	NV	40	0.010925	±2.5	PASS
GPRS850	190	NV	50	0.007722	±2.5	PASS

GPRS850	251	NV	-30	0.008671	±2.5	PASS
GPRS850	251	NV	-20	0.011027	±2.5	PASS
GPRS850	251	NV	-10	0.003876	±2.5	PASS
GPRS850	251	NV	0	0.008412	±2.5	PASS
GPRS850	251	NV	10	0.005596	±2.5	PASS
GPRS850	251	NV	20	0.007528	±2.5	PASS
GPRS850	251	NV	30	0.008942	±2.5	PASS
GPRS850	251	NV	40	0.008671	±2.5	PASS
GPRS850	251	NV	50	0.006126	±2.5	PASS
EGPRS850	128	NV	-30	0.010228	±2.5	PASS
EGPRS850	128	NV	-20	0.015081	±2.5	PASS
EGPRS850	128	NV	-10	0.013553	±2.5	PASS
EGPRS850	128	NV	0	0.010264	±2.5	PASS
EGPRS850	128	NV	10	0.008347	±2.5	PASS
EGPRS850	128	NV	20	0.006418	±2.5	PASS
EGPRS850	128	NV	30	0.011793	±2.5	PASS
EGPRS850	128	NV	40	0.010738	±2.5	PASS
EGPRS850	128	NV	50	0.007365	±2.5	PASS
EGPRS850	190	NV	-30	0.007829	±2.5	PASS
EGPRS850	190	NV	-20	0.006526	±2.5	PASS
EGPRS850	190	NV	-10	0.005714	±2.5	PASS
EGPRS850	190	NV	0	0.014356	±2.5	PASS
EGPRS850	190	NV	10	0.009527	±2.5	PASS
EGPRS850	190	NV	20	0.011499	±2.5	PASS
EGPRS850	190	NV	30	0.012431	±2.5	PASS
EGPRS850	190	NV	40	0.012156	±2.5	PASS
EGPRS850	190	NV	50	0.013698	±2.5	PASS
EGPRS850	251	NV	-30	0.011605	±2.5	PASS
EGPRS850	251	NV	-20	0.007493	±2.5	PASS
EGPRS850	251	NV	-10	0.008671	±2.5	PASS
EGPRS850	251	NV	0	0.011982	±2.5	PASS
EGPRS850	251	NV	10	0.012547	±2.5	PASS
EGPRS850	251	NV	20	0.009625	±2.5	PASS
EGPRS850	251	NV	30	0.008365	±2.5	PASS
EGPRS850	251	NV	40	0.005820	±2.5	PASS
EGPRS850	251	NV	50	0.010426	±2.5	PASS
GSM1900	512	NV	-30	0.008080	±2.5	PASS
GSM1900	512	NV	-20	0.000681	±2.5	PASS
GSM1900	512	NV	-10	0.006664	±2.5	PASS
GSM1900	512	NV	0	0.010923	±2.5	PASS
GSM1900	512	NV	10	0.006194	±2.5	PASS
GSM1900	512	NV	20	0.011847	±2.5	PASS
GSM1900	512	NV	30	0.006961	±2.5	PASS
GSM1900	512	NV	40	0.005356	±2.5	PASS
GSM1900	512	NV	50	0.005513	±2.5	PASS
GSM1900	661	NV	-30	0.004309	±2.5	PASS
GSM1900	661	NV	-20	0.008021	±2.5	PASS
GSM1900	661	NV	-10	0.006011	±2.5	PASS
GSM1900	661	NV	0	0.001973	±2.5	PASS
GSM1900	661	NV	10	0.004223	±2.5	PASS