



Appendix H: Test Data for E-UTRA Band 13

Product Name: 4G Phone
Test Model: SmartVision3 – KAP22000

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu





H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	20.82	PASS
Band13	5MHz	QPSK	23205	1RB#12	21.92	PASS
Band13	5MHz	QPSK	23205	1RB#24	21.92	PASS
Band13	5MHz	QPSK	23205	12RB#0	20.75	PASS
Band13	5MHz	QPSK	23205	12RB#6	20.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	20.81	PASS
Band13	5MHz	QPSK	23205	25RB#0	20.84	PASS
Band13	5MHz	QPSK	23230	1RB#0	21.94	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.12	PASS
Band13	5MHz	QPSK	23230	1RB#24	21.97	PASS
Band13	5MHz	QPSK	23230	12RB#0	20.97	PASS
Band13	5MHz	QPSK	23230	12RB#6	20.95	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.05	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.04	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.04	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.12	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.06	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.04	PASS
Band13	5MHz	QPSK	23255	12RB#6	20.98	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.10	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.10	PASS
Band13	5MHz	16QAM	23205	1RB#0	20.91	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.11	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.11	PASS
Band13	5MHz	16QAM	23205	12RB#0	19.78	PASS
Band13	5MHz	16QAM	23205	12RB#6	19.78	PASS
Band13	5MHz	16QAM	23205	12RB#13	19.82	PASS
Band13	5MHz	16QAM	23205	25RB#0	19.82	PASS
Band13	5MHz	16QAM	23230	1RB#0	20.93	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.10	PASS
Band13	5MHz	16QAM	23230	1RB#24	20.98	PASS



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Scan code to check authenticity



Band13	5MHz	16QAM	23230	12RB#0	20.01	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.00	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.00	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.19	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.27	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.25	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.11	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.08	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.18	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.09	PASS
Band13	10MHz	QPSK	23230	1RB#0	21.81	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.11	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.03	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.09	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.13	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.18	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.14	PASS
Band13	10MHz	16QAM	23230	1RB#0	20.92	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.25	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.18	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.08	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.12	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.18	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.16	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.39	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.64	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.58	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.09	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.33	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.35	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.47	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.24	13	PASS



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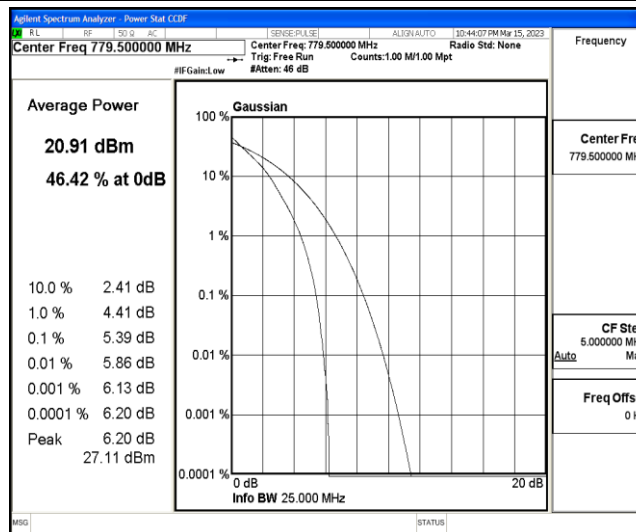
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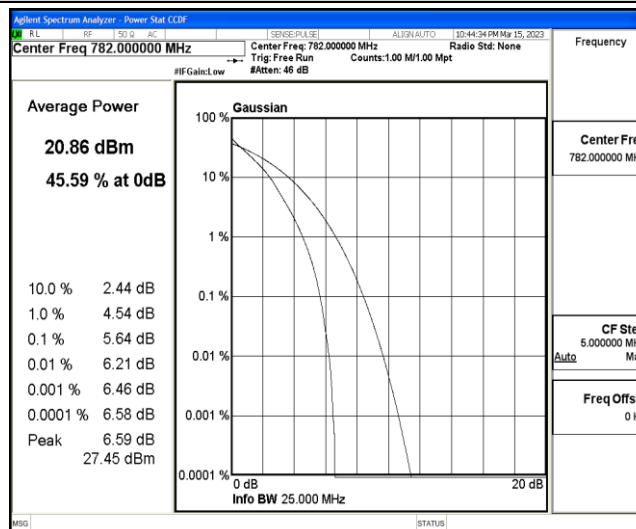


Test Graphs

Band13-5MHz-QPSK-23205-25RB#0

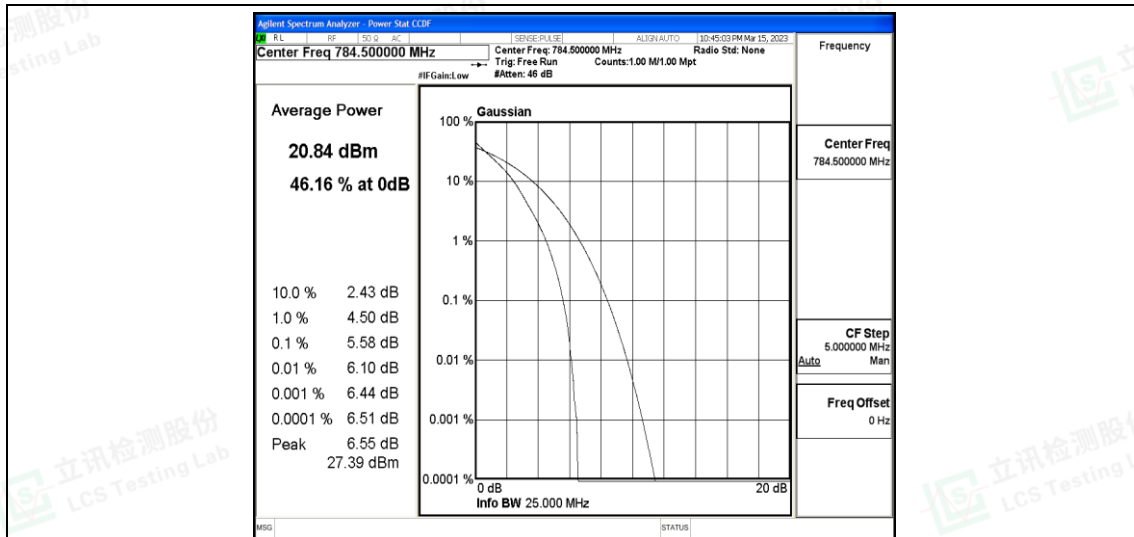


Band13-5MHz-QPSK-23230-25RB#0

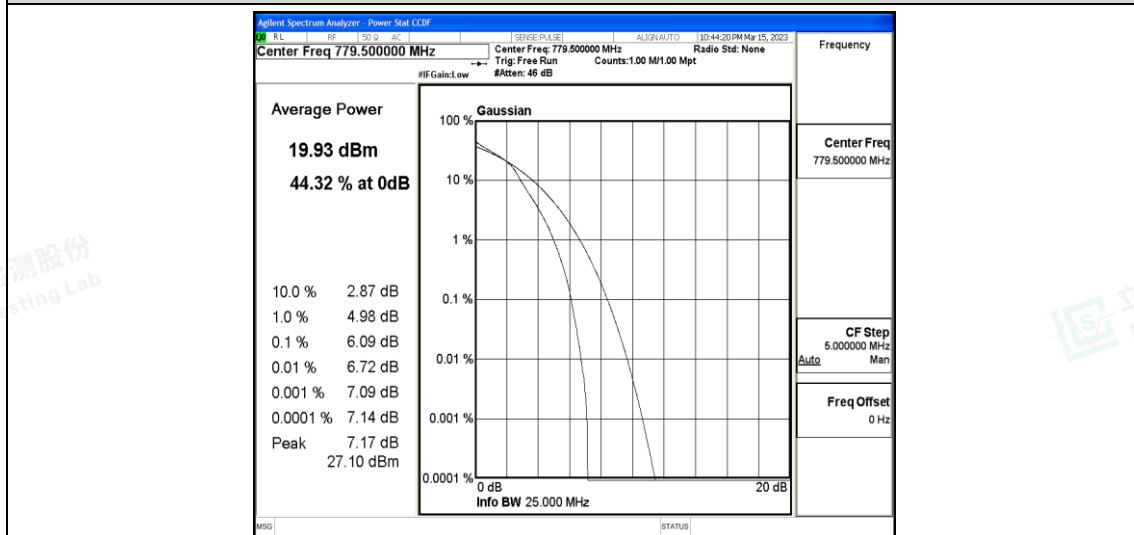


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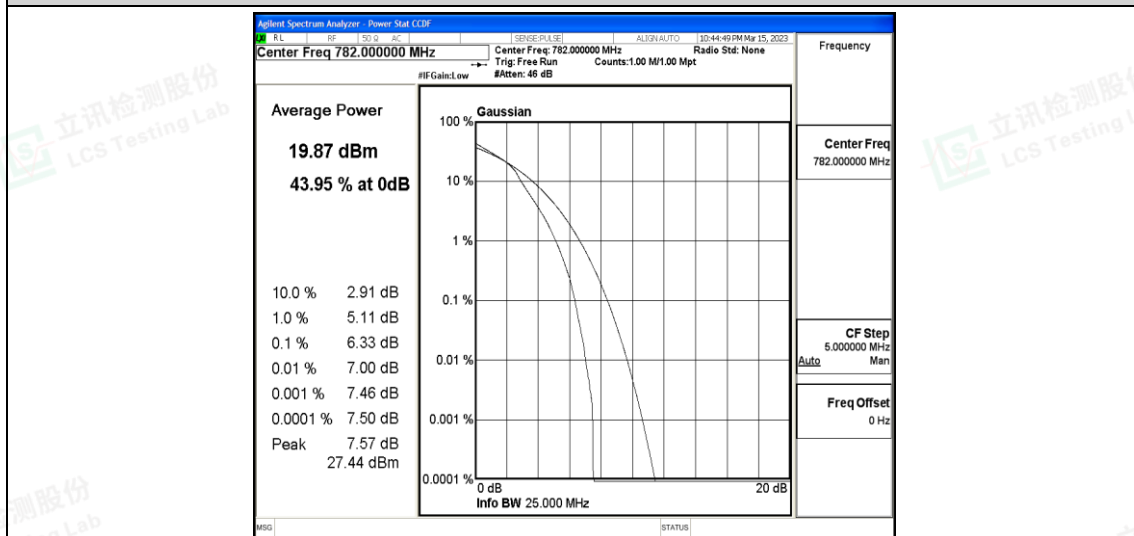




Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23230-25RB#0



Band13-5MHz-16QAM-23255-25RB#0

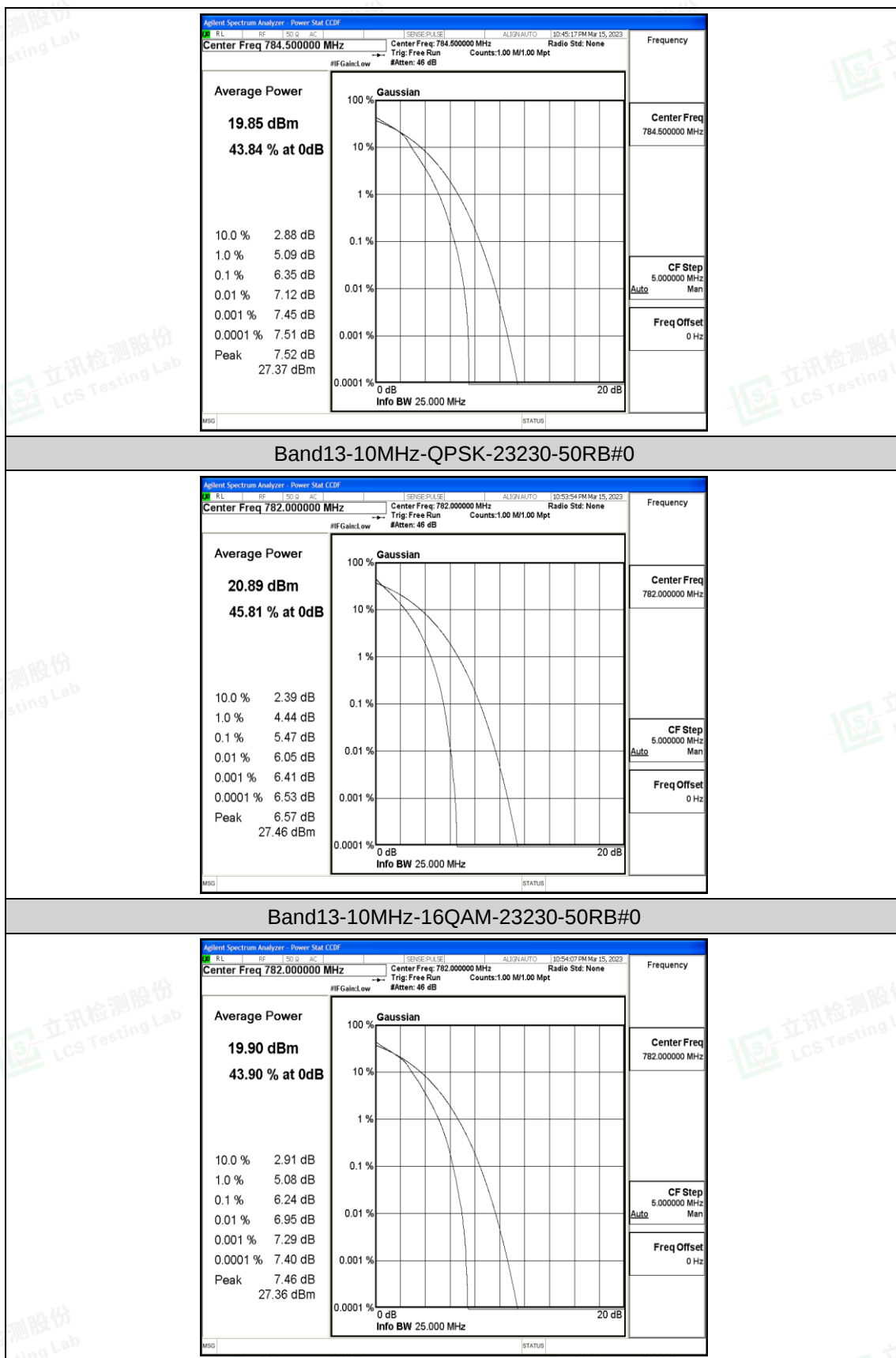


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H.3 26dB Bandwidth and Occupied Bandwidth

Test Result

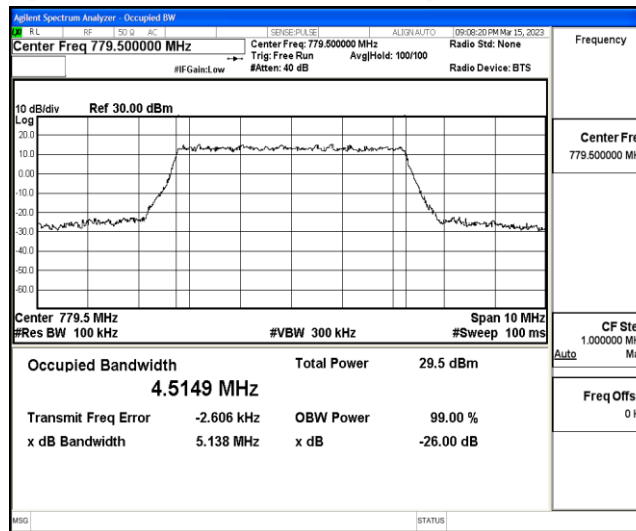
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5149	5.138	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5278	5.163	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5041	5.125	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5204	5.124	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5207	5.145	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5365	5.274	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0138	10.25	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9891	9.994	PASS



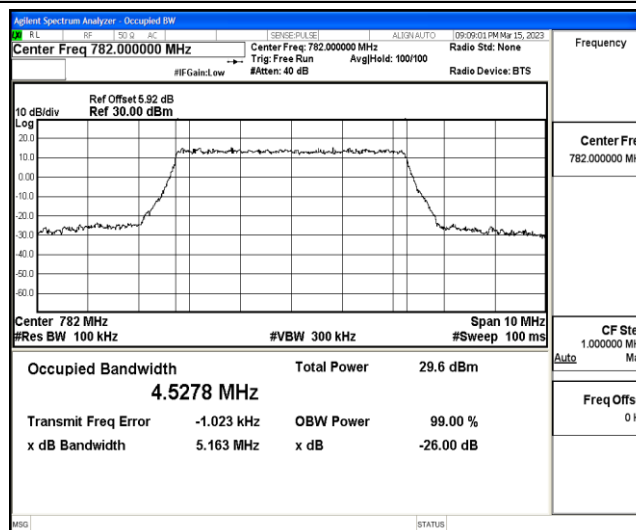


Test Graphs

Band13-5MHz-QPSK-23205-25RB#0

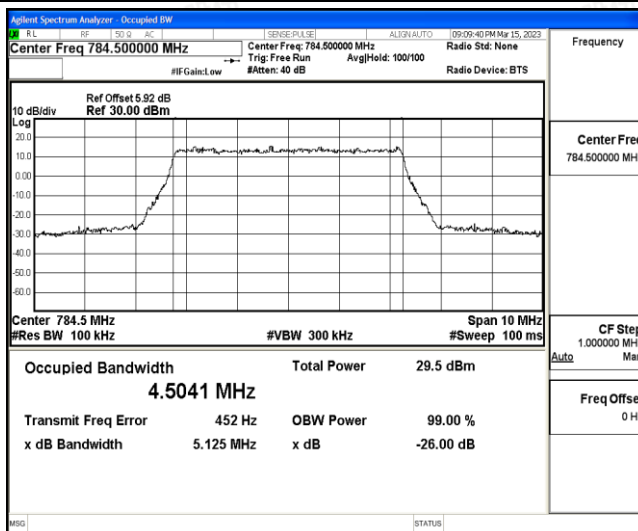


Band13-5MHz-QPSK-23230-25RB#0

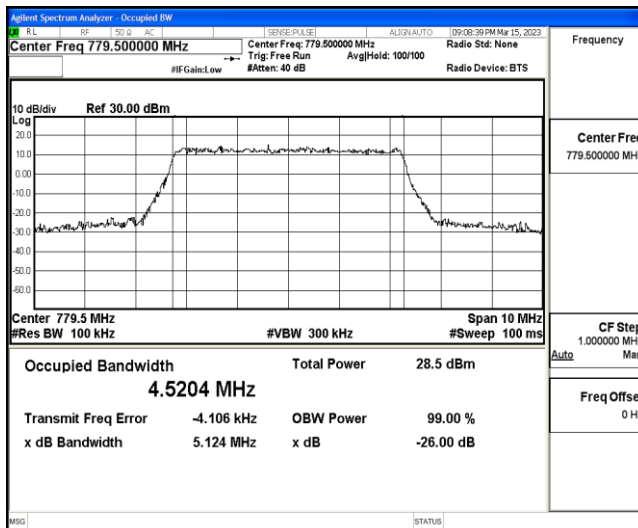


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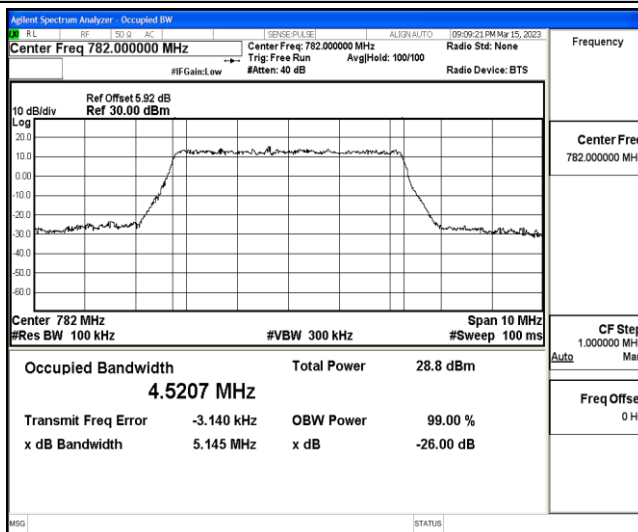




Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23230-25RB#0



Band13-5MHz-16QAM-23255-25RB#0

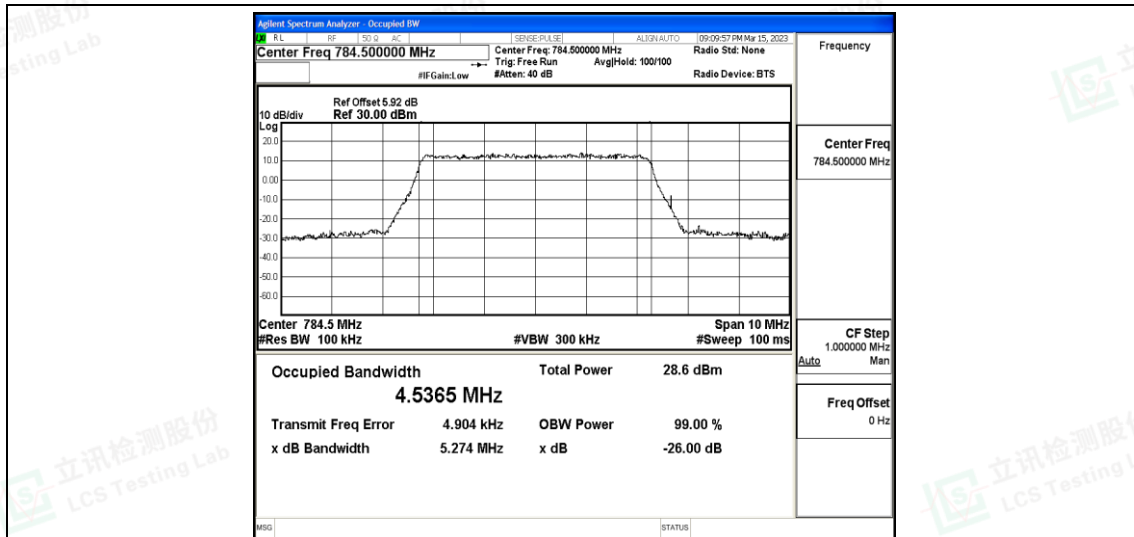


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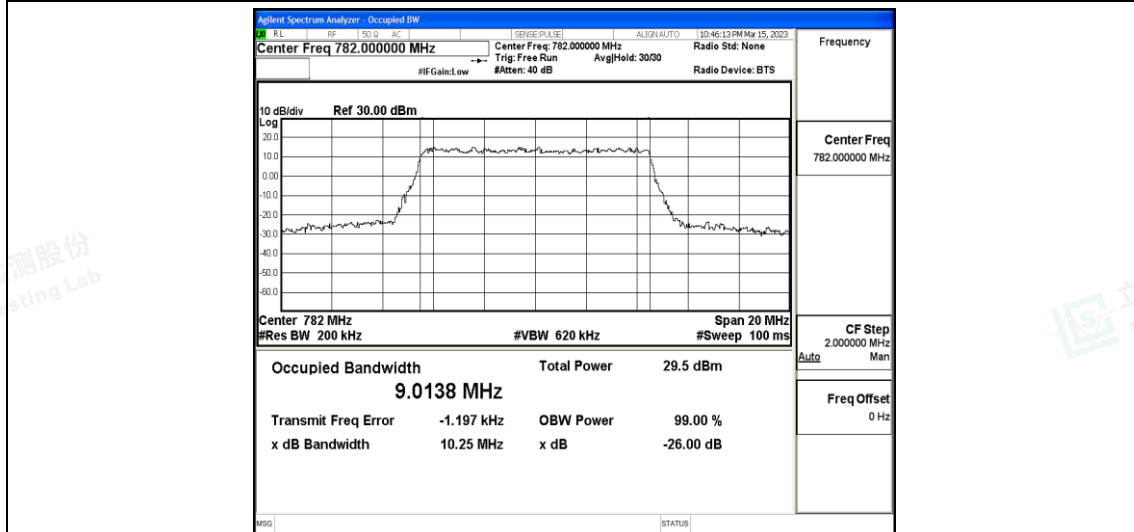
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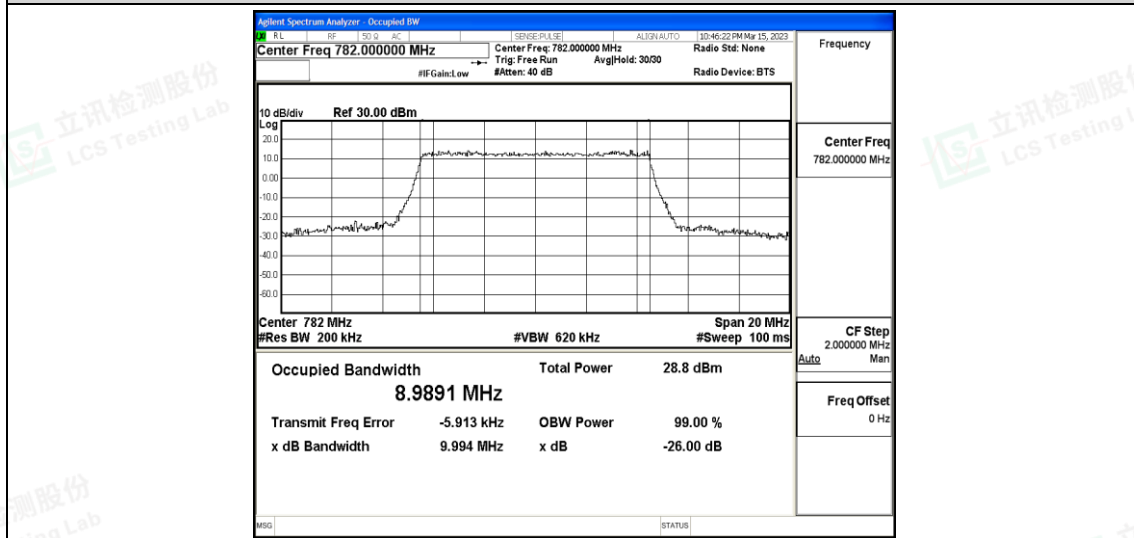
Scan code to check authenticity



Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



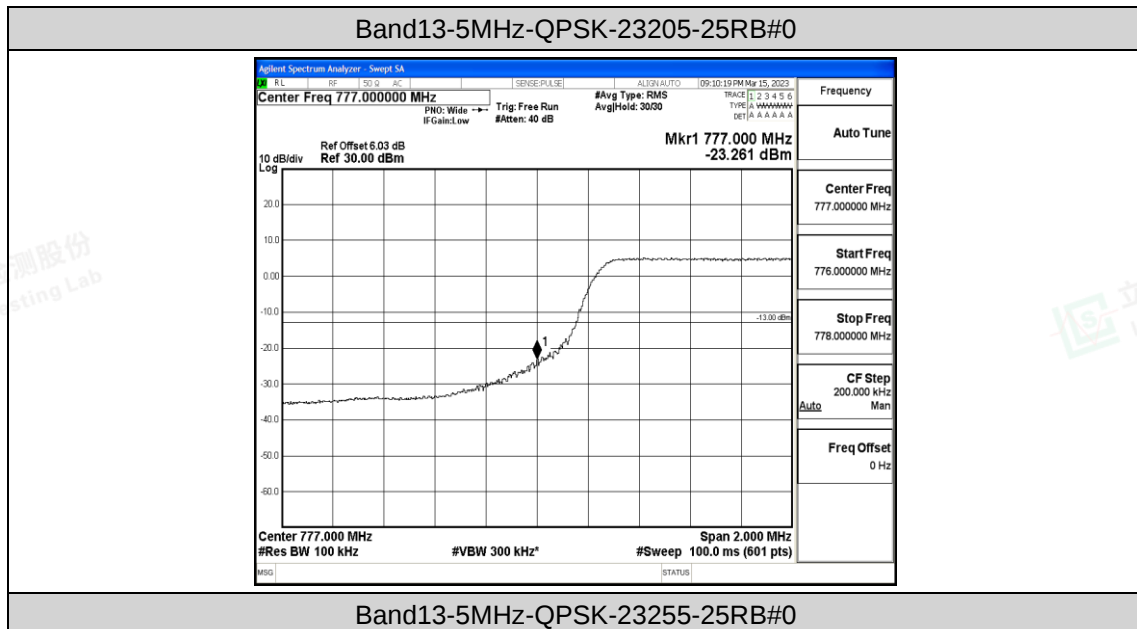


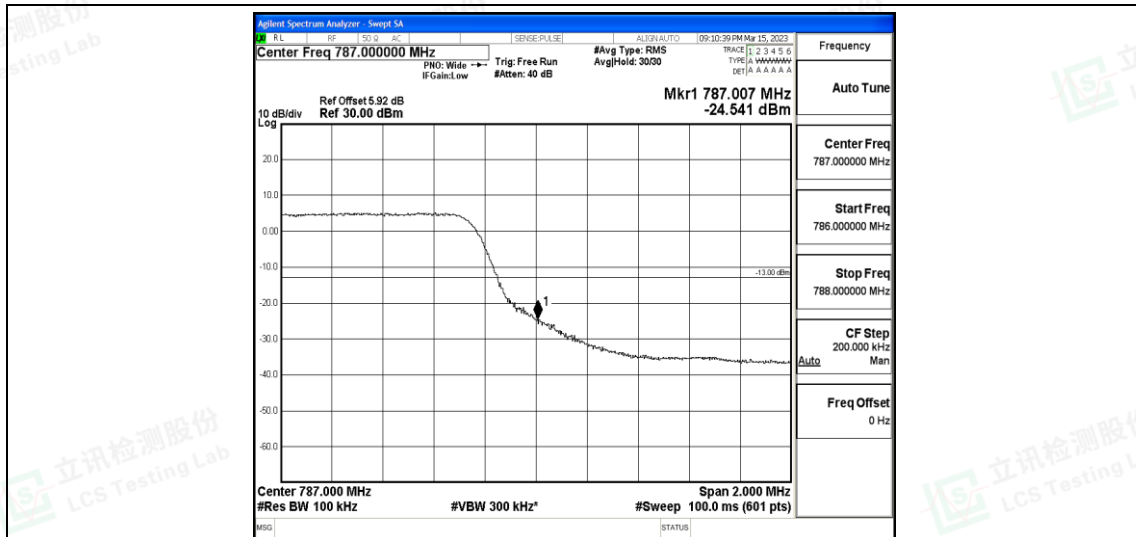
H.4 Band Edge

Test Result

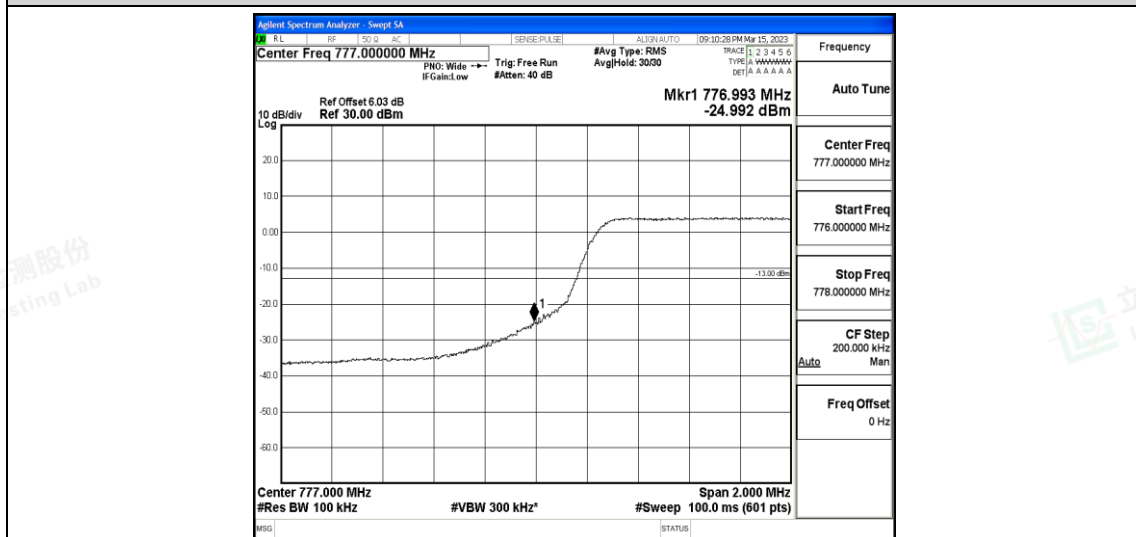
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-23.26	PASS
Band13	5MHz	QPSK	23255	25RB#0	-24.54	PASS
Band13	5MHz	16QAM	23205	25RB#0	-24.99	PASS
Band13	5MHz	16QAM	23255	25RB#0	-25.13	PASS
Band13	10MHz	QPSK	23230	50RB#0	-27.48,-29.11	PASS
Band13	10MHz	16QAM	23230	50RB#0	-29.55,-30.48	PASS

Test Graphs

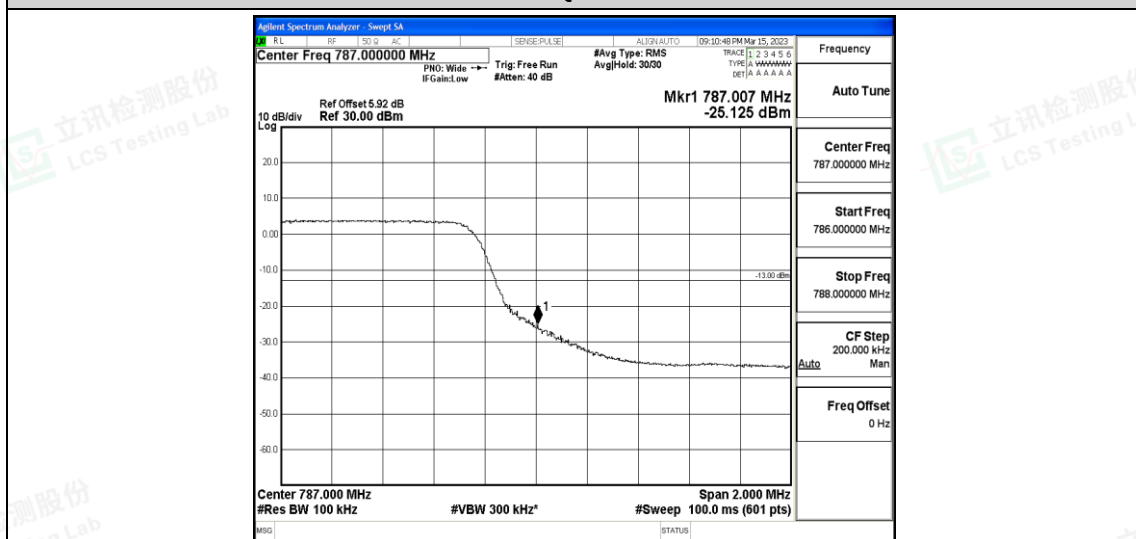




Band13-5MHz-16QAM-23205-25RB#0

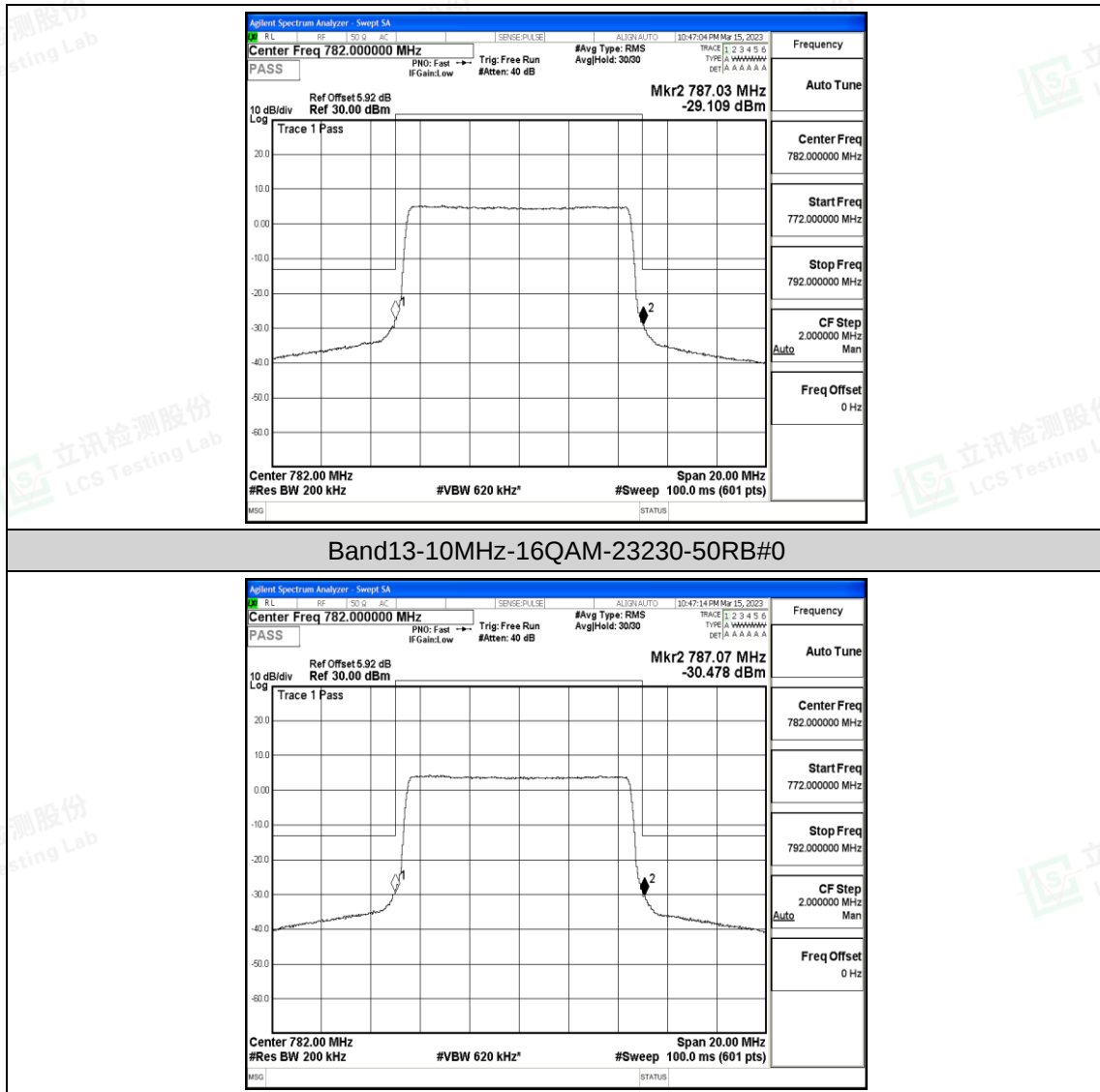


Band13-5MHz-16QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-50RB#0







H.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	-54.88	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	-50.96	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	-40.21	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:763~775MHz	-59.45	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range6:793~805MHz	-60.31	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	-44.28	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range7:1559~1610MHz	-63.99	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-56.69	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-49.09	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-41.06	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-60.32	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-60.21	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-44.68	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-63.97	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	-56.69	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	-50.2	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	-40.36	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:763~775MHz	-60.51	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range6:793~805MHz	-60.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	-44.66	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range7:1559~1610MHz	-63.82	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	-54.05	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	-51.96	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	-40.6	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:763~775MHz	-44.58	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range6:793~805MHz	-58.75	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	-44.7	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range7:1559~1610MHz	-63.85	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-55.62	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-50.43	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-40.05	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-60.56	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-60.48	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-44.88	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-64.04	PASS



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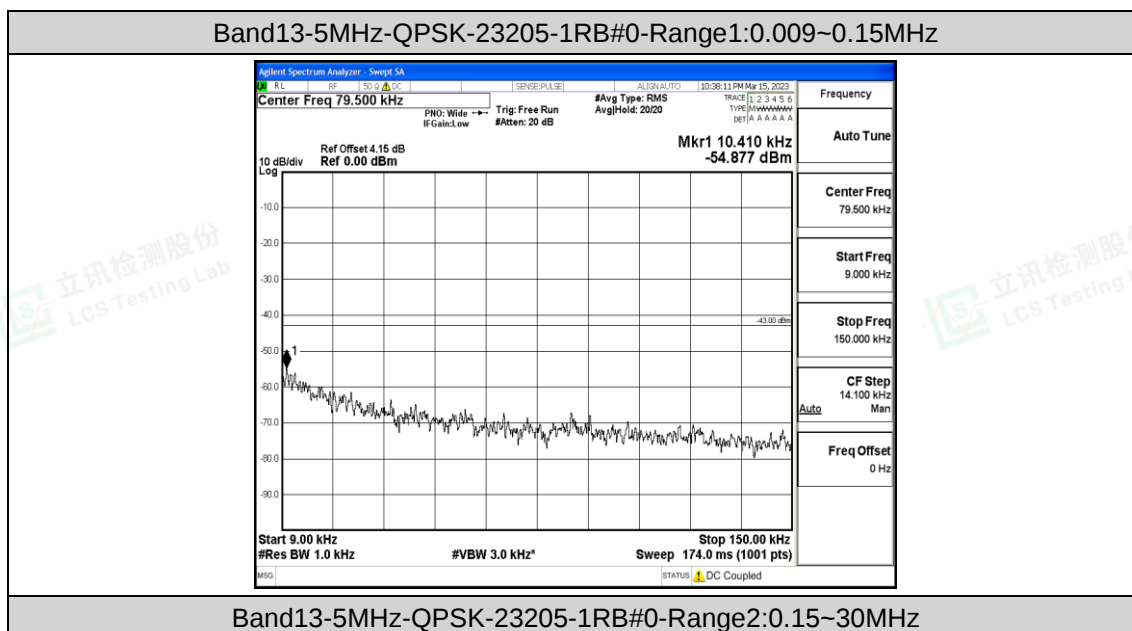
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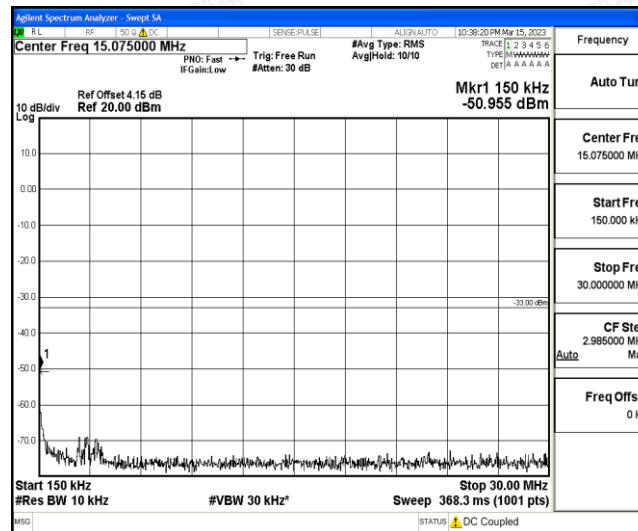
Scan code to check authenticity



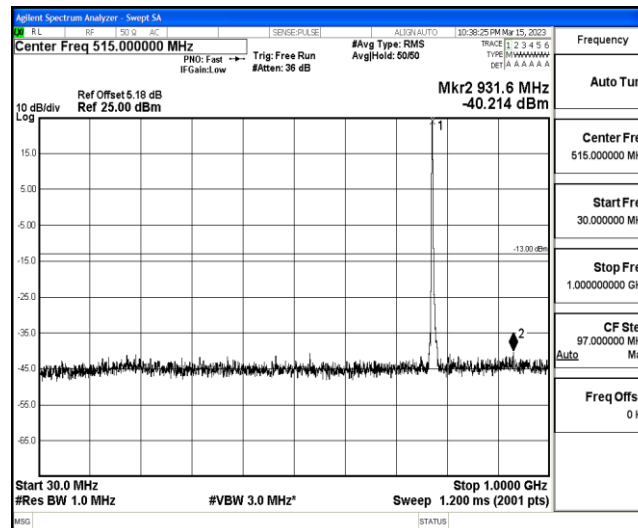
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	-55.06	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	-51.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	-41.42	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	-60.34	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	-61.13	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	-44.88	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range7:1559~1610MHz	-63.89	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-52.95	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-51.1	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-41.03	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-56.85	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-57.43	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-44.75	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-62.74	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-53.27	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-50.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-40.84	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-56.95	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-55.76	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-44.85	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-63.02	PASS

Test Graphs

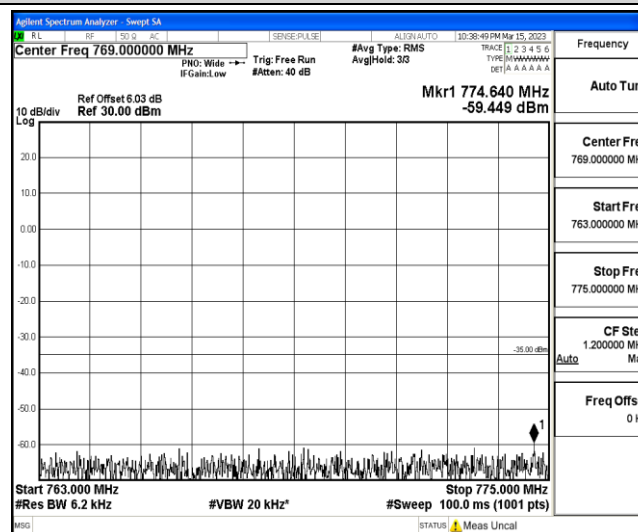




Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz

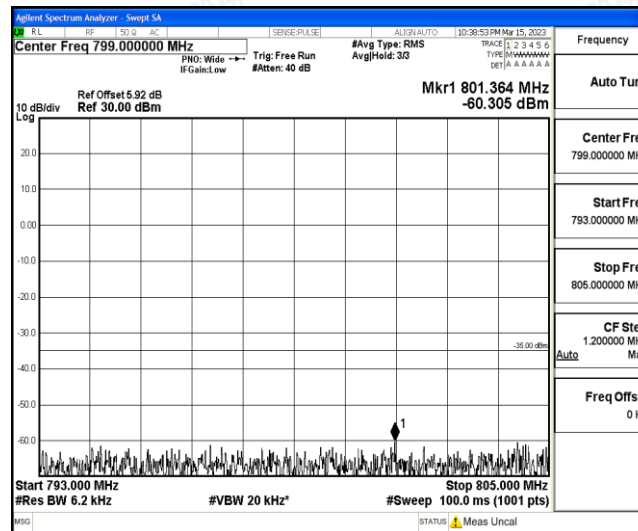


Band13-5MHz-QPSK-23205-1RB#0-Range5:763~775MHz

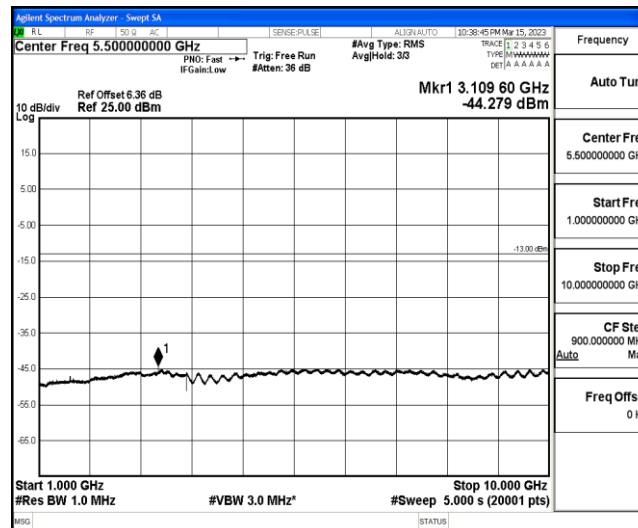


Band13-5MHz-QPSK-23205-1RB#0-Range6:793~805MHz

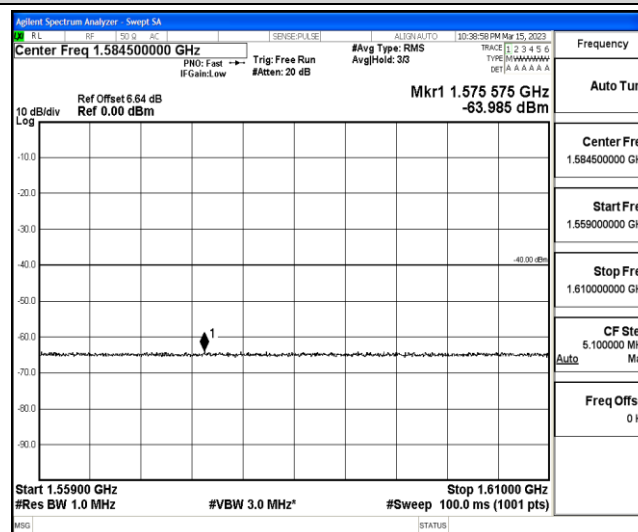




Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz

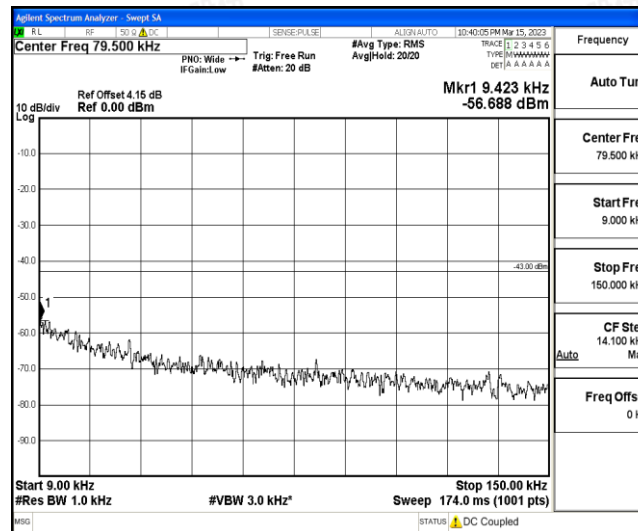


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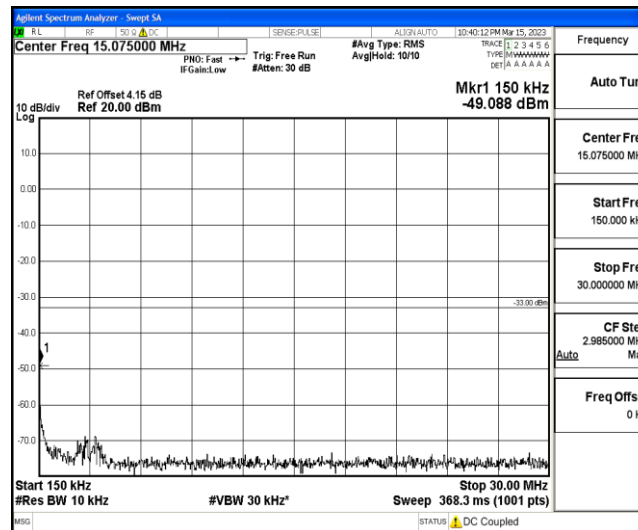


Band13-5MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz

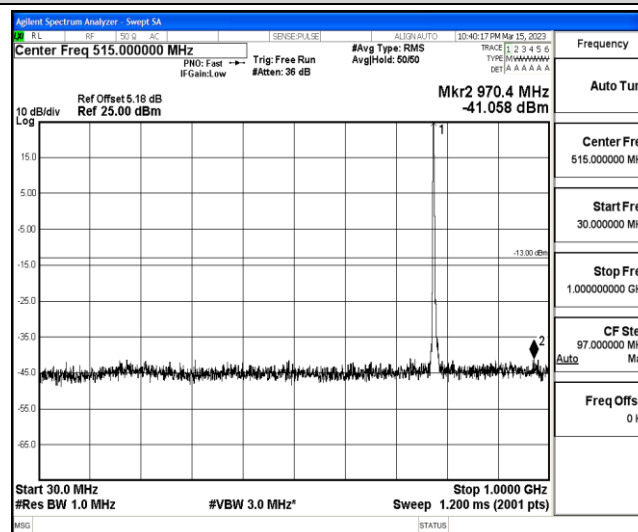




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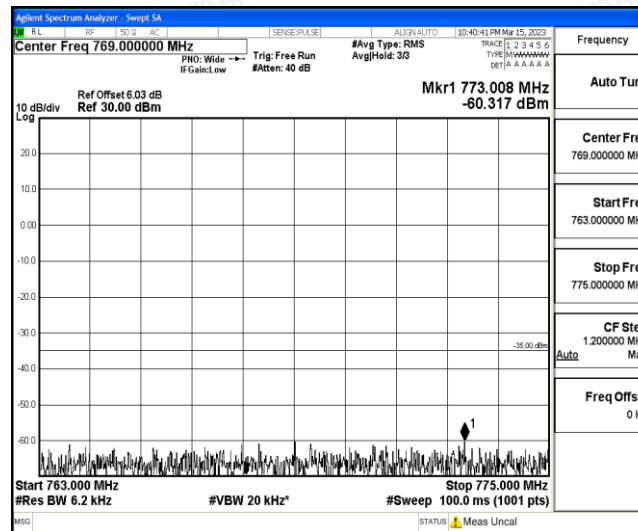


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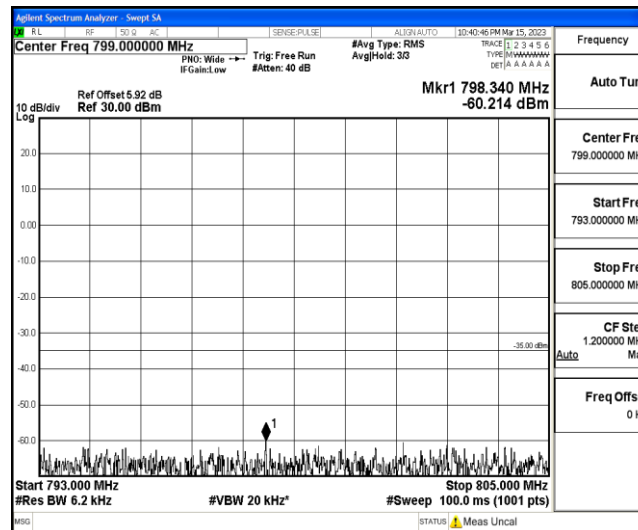


Band13-5MHz-QPSK-23230-1RB#0-Range5:763~775MHz

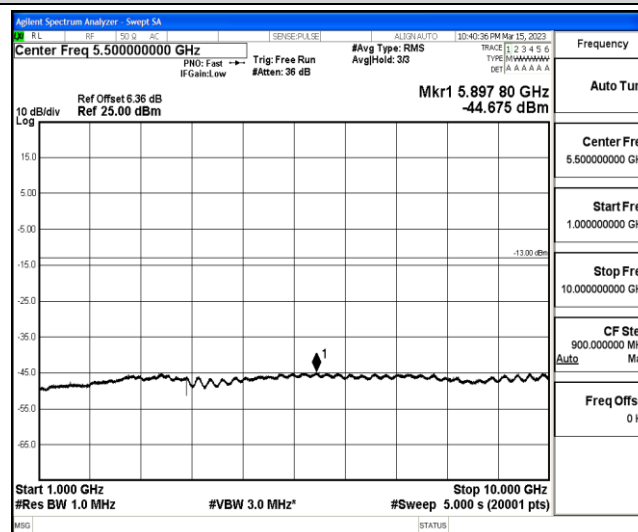




Band13-5MHz-QPSK-23230-1RB#0-Range6:793~805MHz

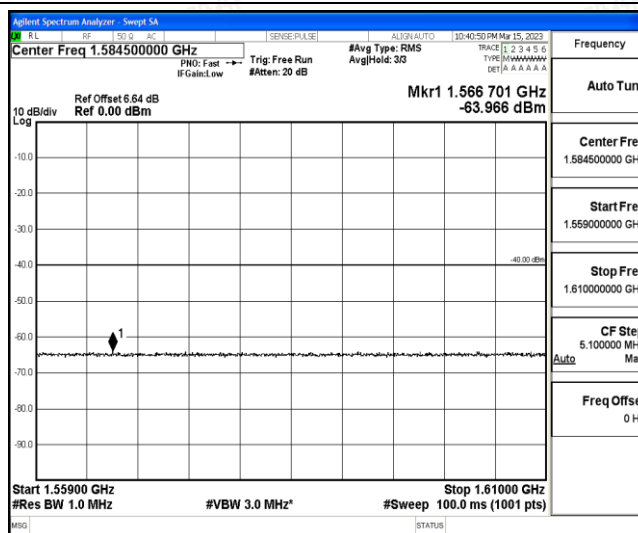


Band13-5MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz

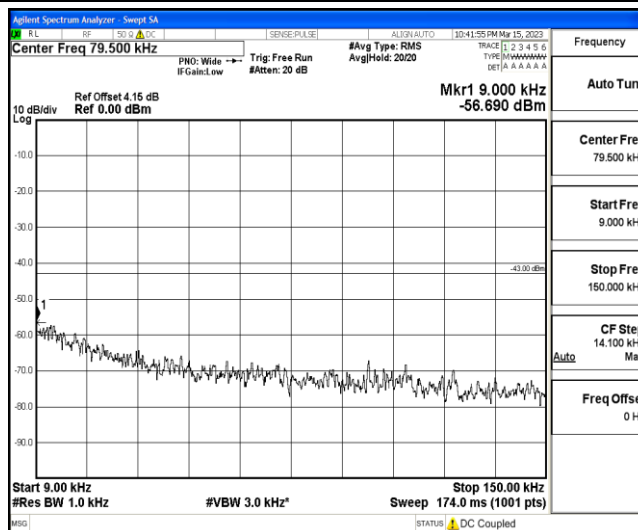


Band13-5MHz-QPSK-23230-1RB#0-Range7:1559~1610MHz

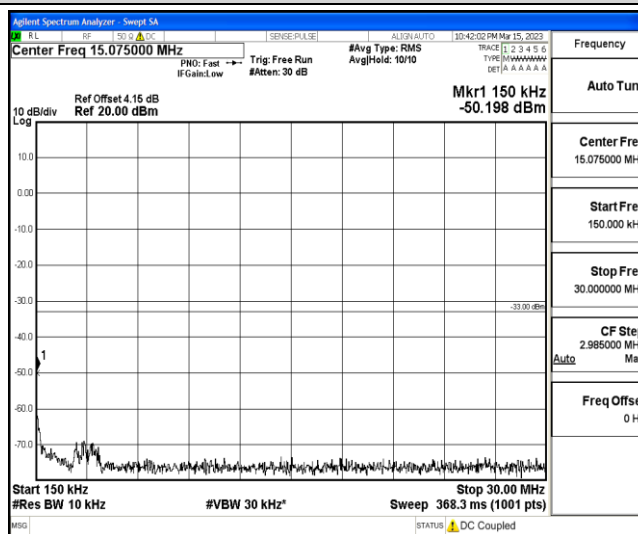




Band13-5MHz-QPSK-23255-1RB#0-Range1:0.009~0.15MHz

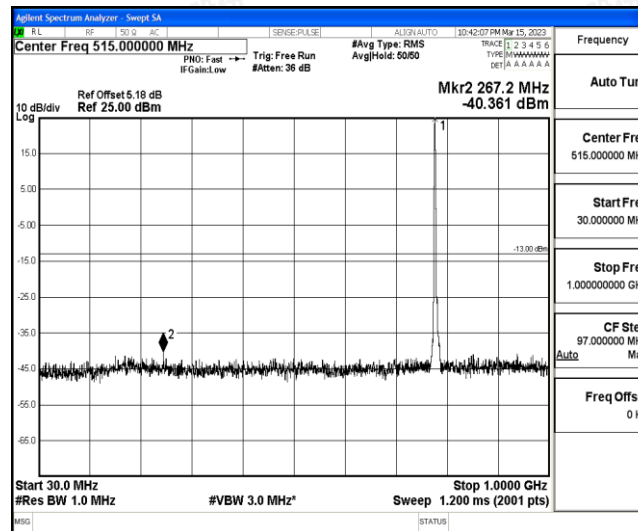


Band13-5MHz-QPSK-23255-1RB#0-Range2:0.15~30MHz

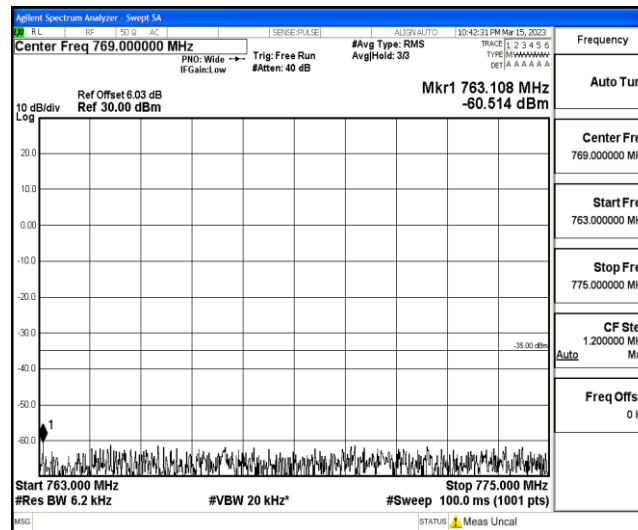


Band13-5MHz-QPSK-23255-1RB#0-Range3:30~1000MHz

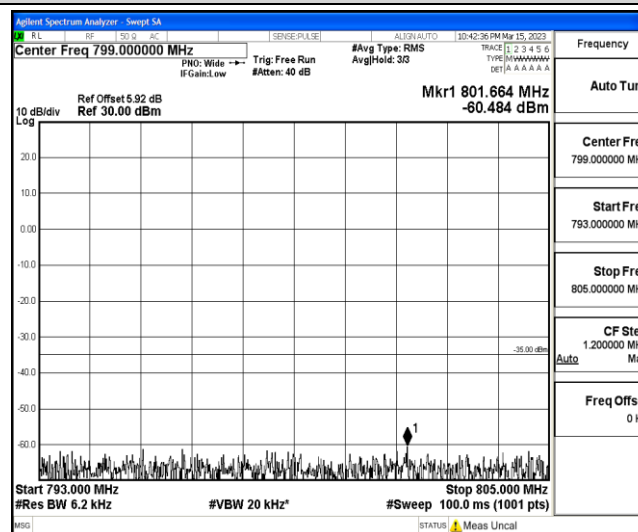




Band13-5MHz-QPSK-23255-1RB#0-Range5:763~775MHz

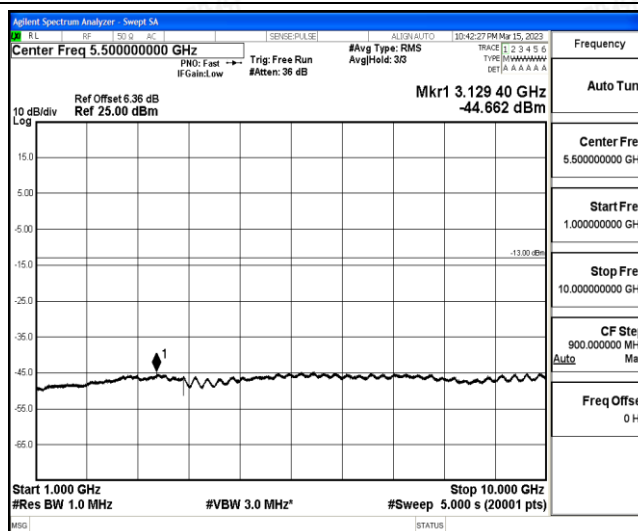


Band13-5MHz-QPSK-23255-1RB#0-Range6:793~805MHz

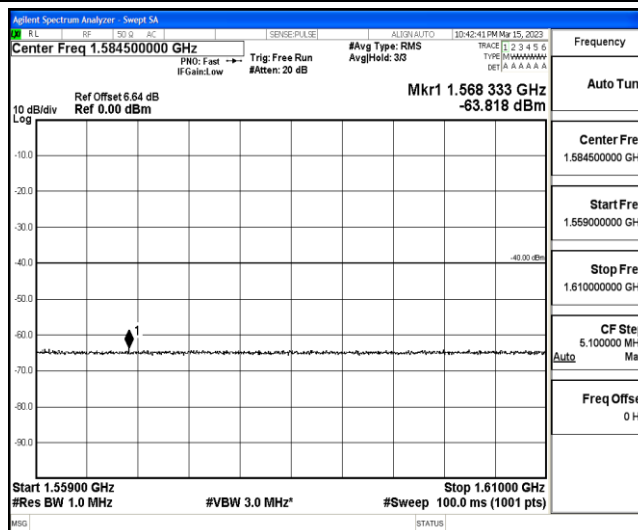


Band13-5MHz-QPSK-23255-1RB#0-Range4:1000~10000MHz

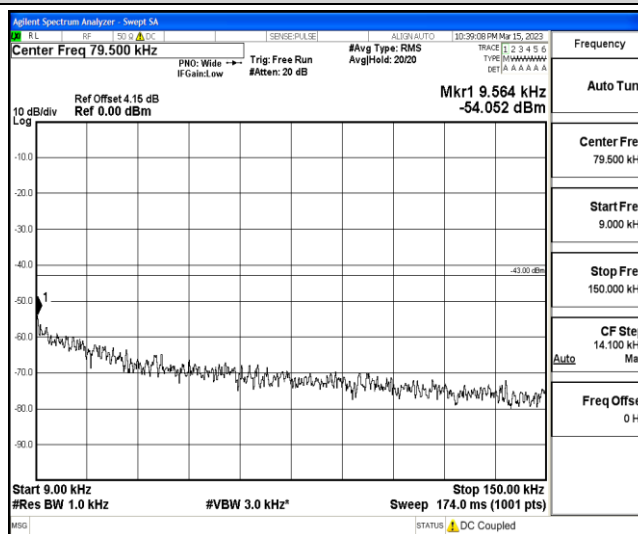




Band13-5MHz-QPSK-23255-1RB#0-Range7:1559~1610MHz



Band13-5MHz-16QAM-23205-1RB#0-Range1:0.009~0.15MHz



Band13-5MHz-16QAM-23205-1RB#0-Range2:0.15~30MHz

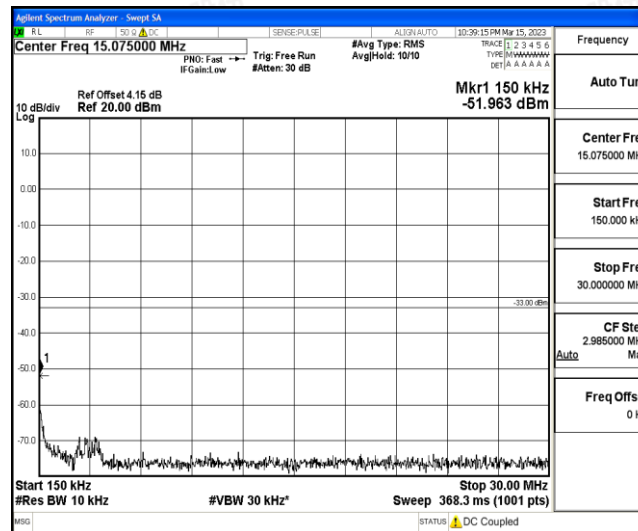


Shenzhen LCS Compliance Testing Laboratory Ltd.

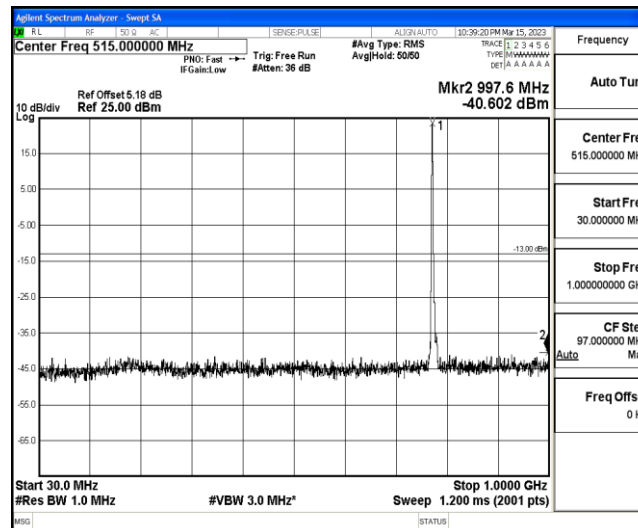
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

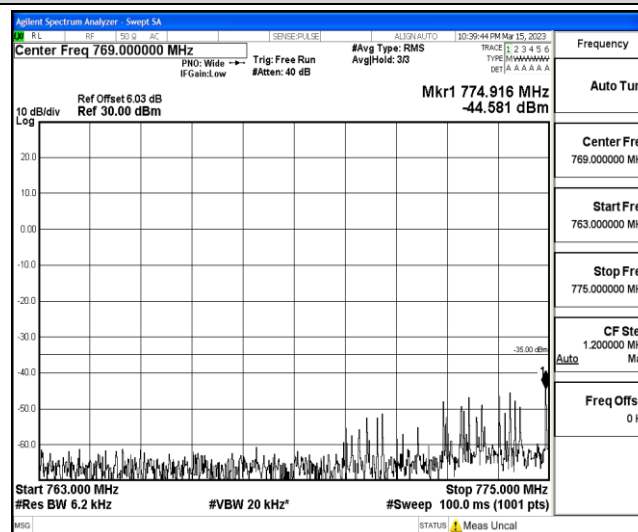
Scan code to check authenticity



Band13-5MHz-16QAM-23205-1RB#0-Range3:30~1000MHz

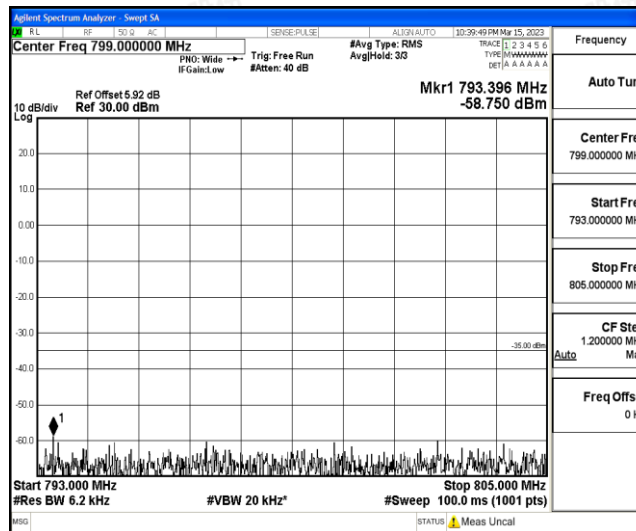


Band13-5MHz-16QAM-23205-1RB#0-Range5:763~775MHz

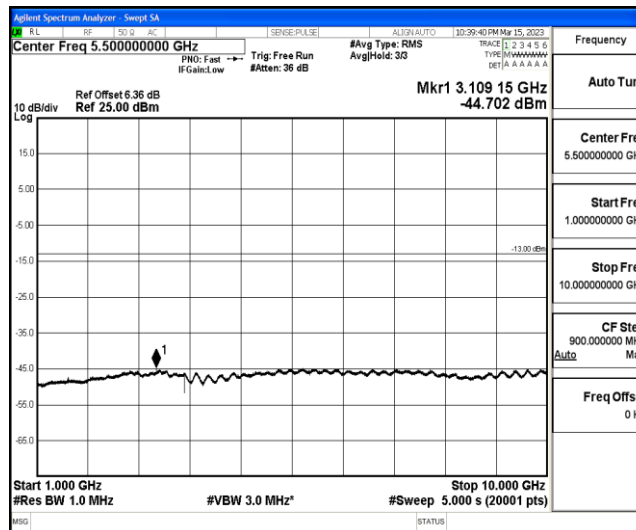


Band13-5MHz-16QAM-23205-1RB#0-Range6:793~805MHz

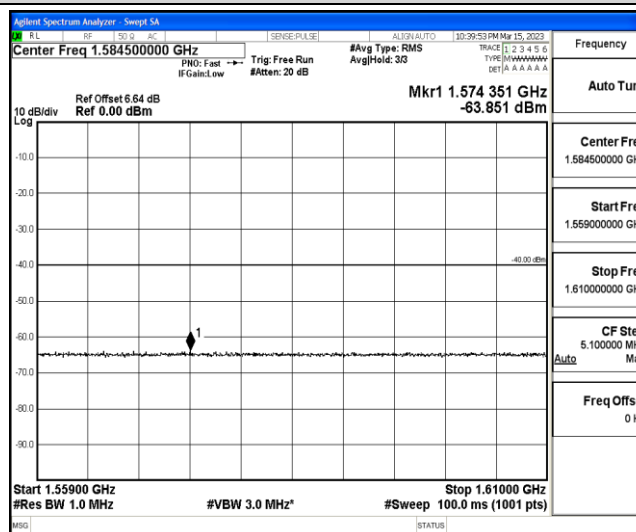




Band13-5MHz-16QAM-23205-1RB#0-Range4:1000~10000MHz

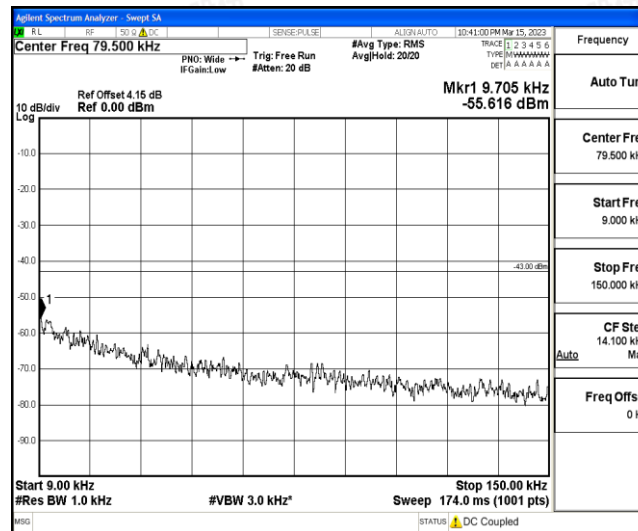


Band13-5MHz-16QAM-23205-1RB#0-Range7:1559~1610MHz

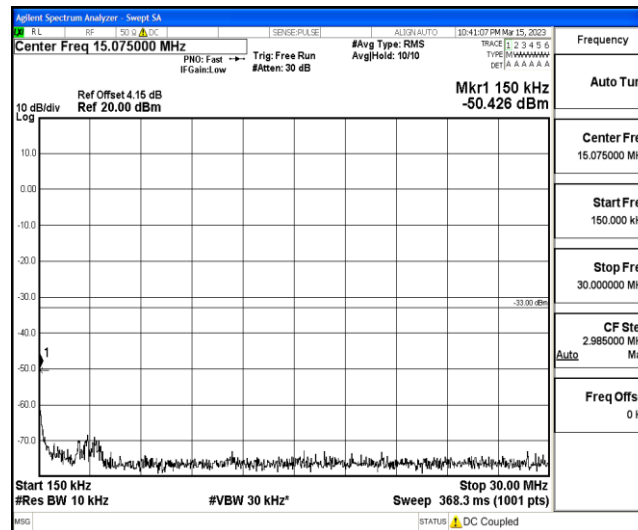


Band13-5MHz-16QAM-23230-1RB#0-Range1:0.009~0.15MHz

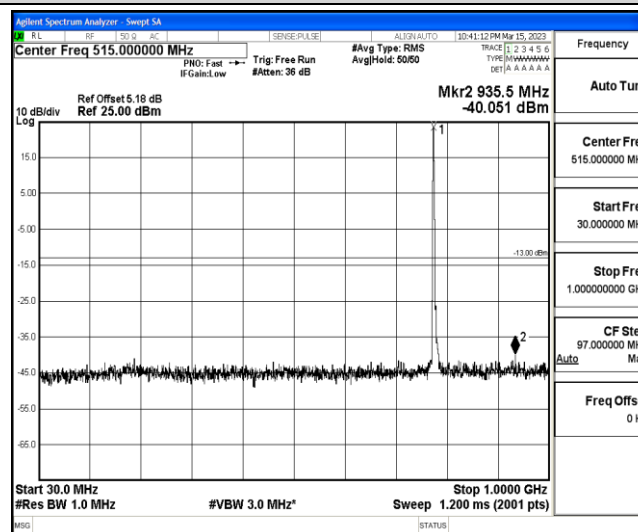




Band13-5MHz-16QAM-23230-1RB#0-Range2:0.15~30MHz

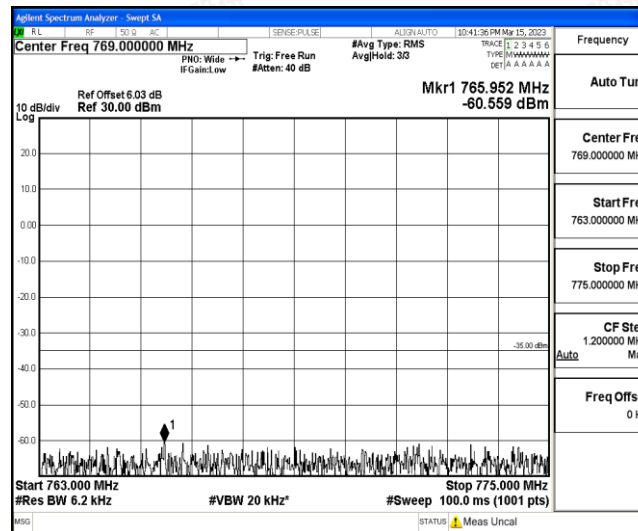


Band13-5MHz-16QAM-23230-1RB#0-Range3:30~1000MHz

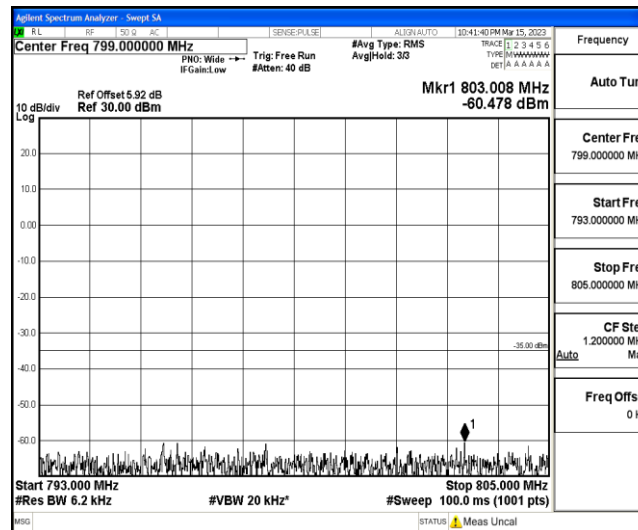


Band13-5MHz-16QAM-23230-1RB#0-Range5:763~775MHz

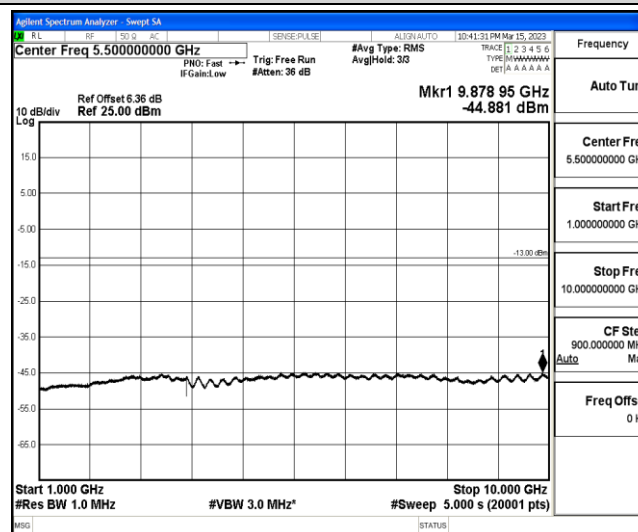




Band13-5MHz-16QAM-23230-1RB#0-Range6:793~805MHz

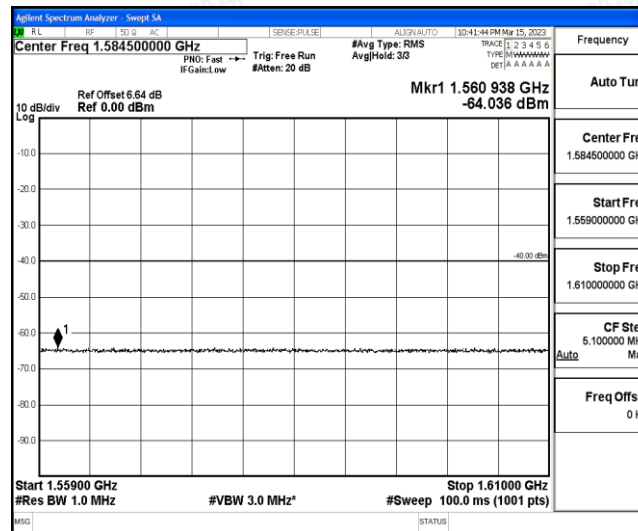


Band13-5MHz-16QAM-23230-1RB#0-Range4:1000~10000MHz

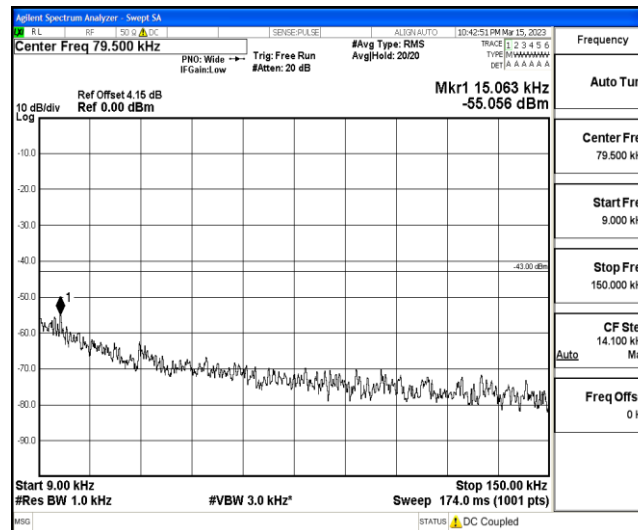


Band13-5MHz-16QAM-23230-1RB#0-Range7:1559~1610MHz

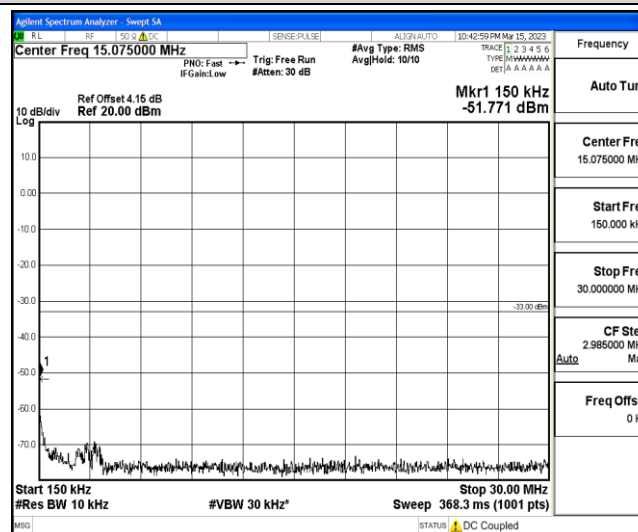




Band13-5MHz-16QAM-23255-1RB#0-Range1:0.009~0.15MHz

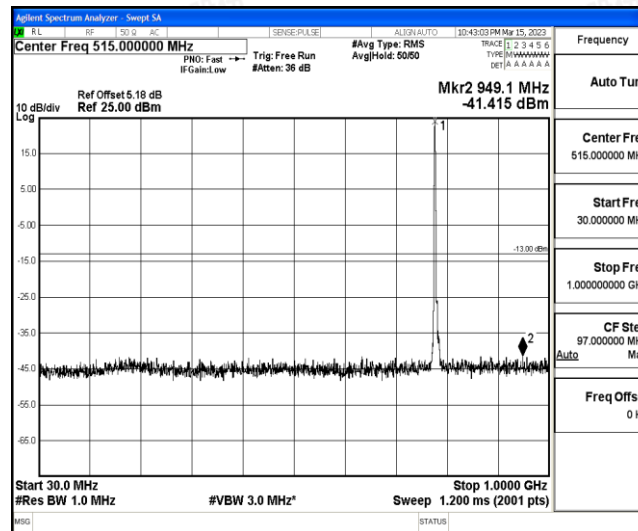


Band13-5MHz-16QAM-23255-1RB#0-Range2:0.15~30MHz

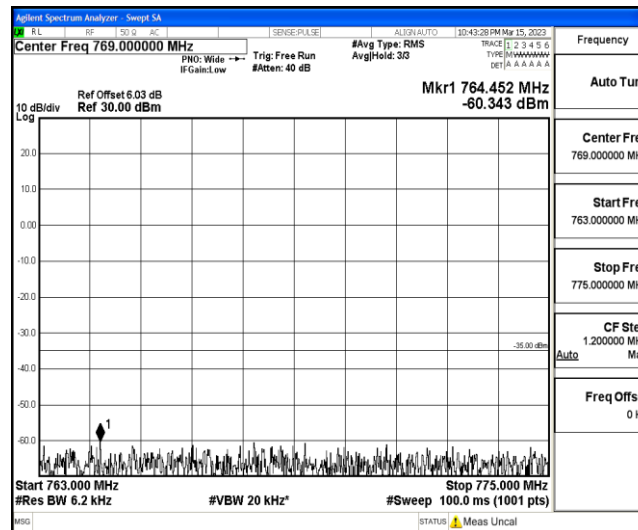


Band13-5MHz-16QAM-23255-1RB#0-Range3:30~1000MHz

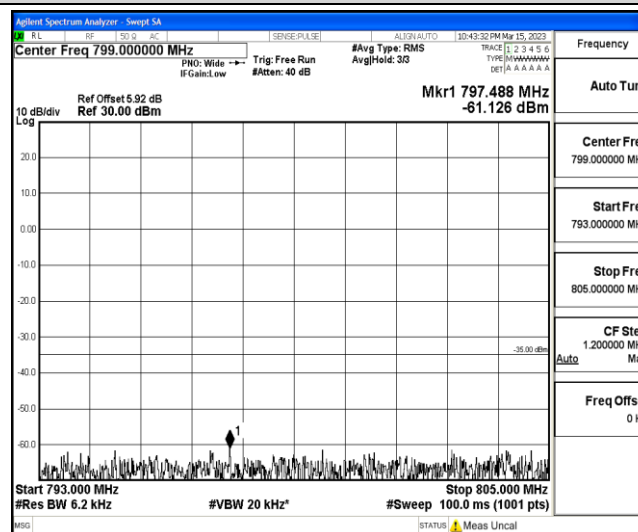




Band13-5MHz-16QAM-23255-1RB#0-Range5:763~775MHz

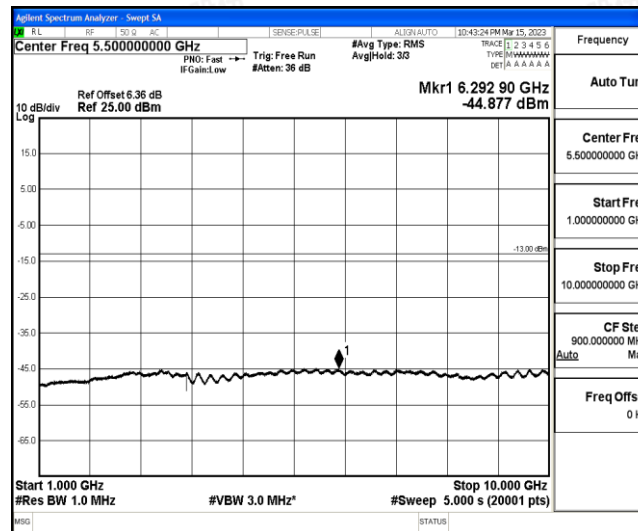


Band13-5MHz-16QAM-23255-1RB#0-Range6:793~805MHz

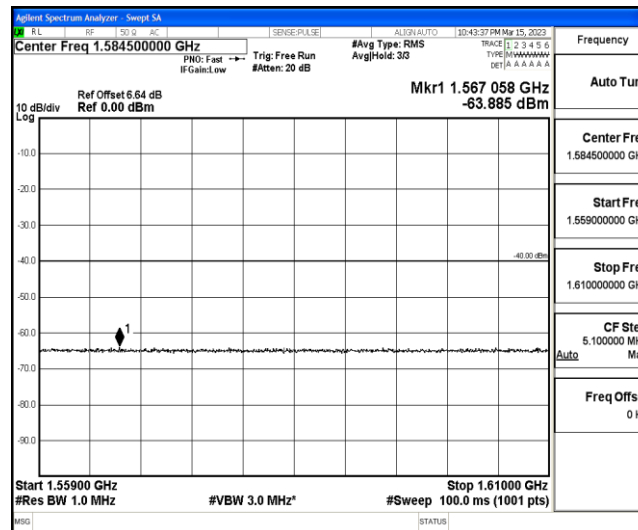


Band13-5MHz-16QAM-23255-1RB#0-Range4:1000~10000MHz

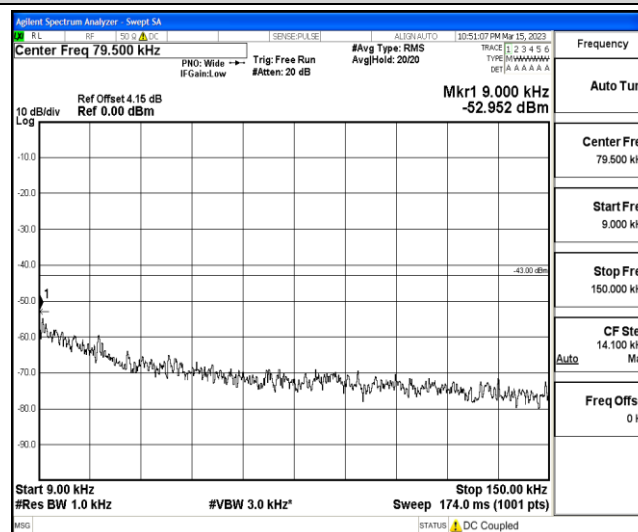




Band13-5MHz-16QAM-23255-1RB#0-Range7:1559~1610MHz

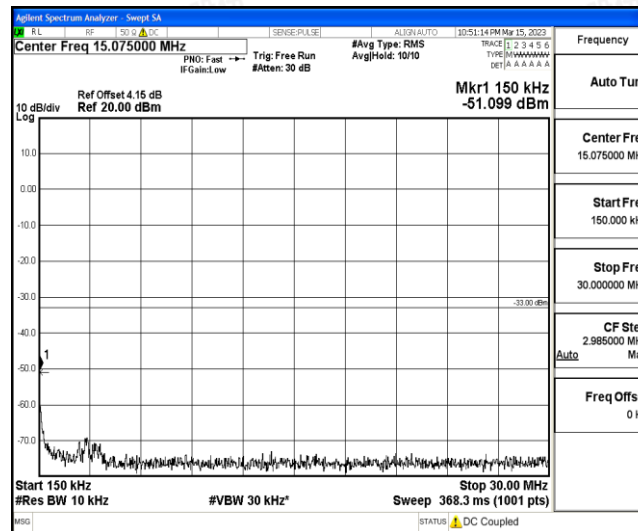


Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz

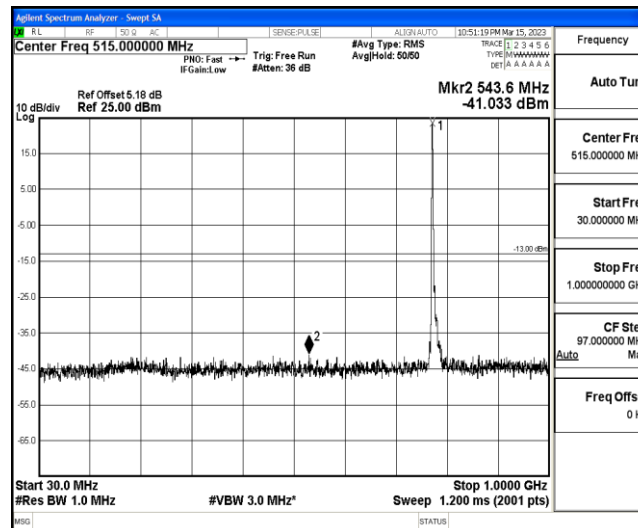


Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz

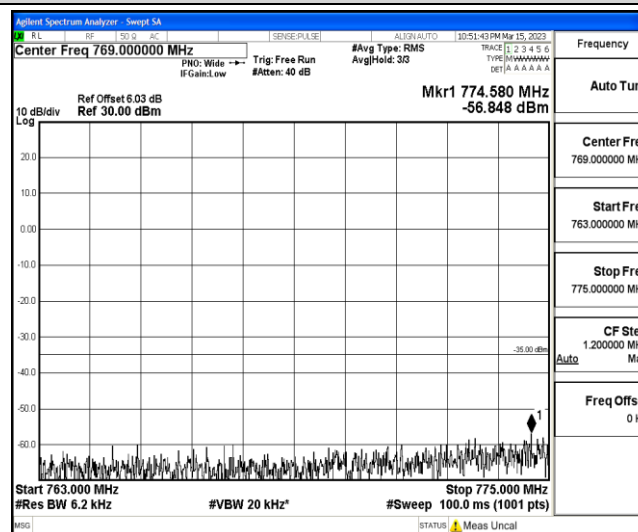




Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz

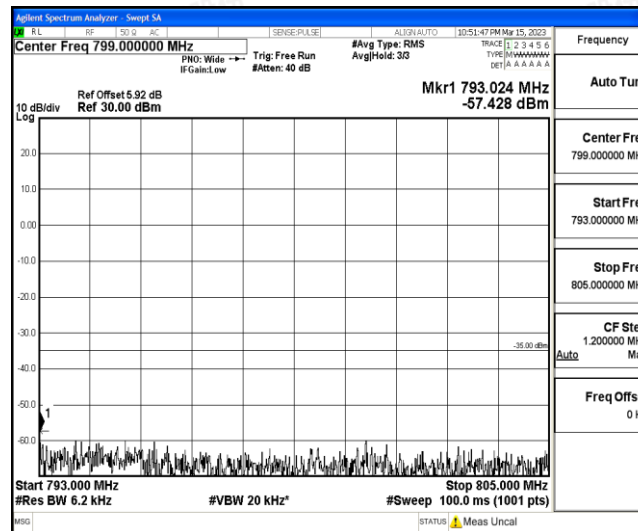


Band13-10MHz-QPSK-23230-1RB#0-Range5:763~775MHz

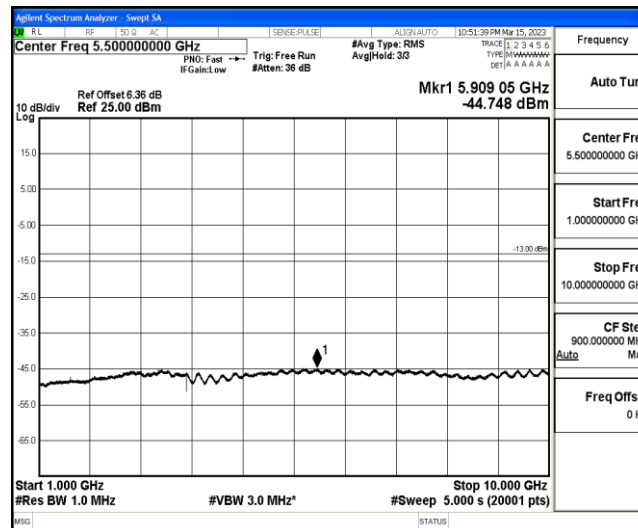


Band13-10MHz-QPSK-23230-1RB#0-Range6:793~805MHz

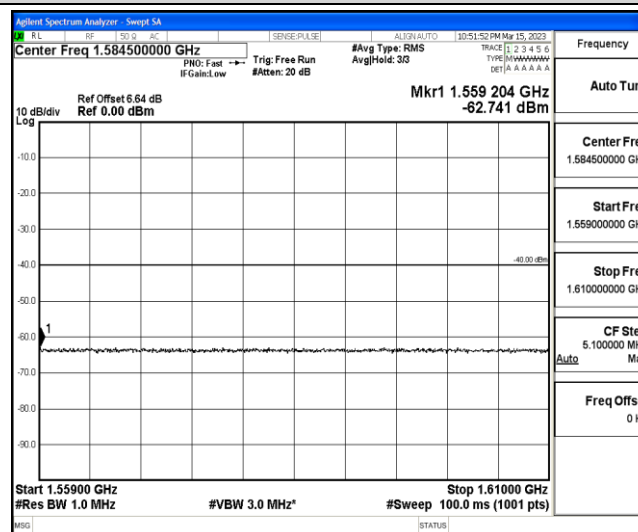




Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range7:1559~1610MHz



Band13-10MHz-16QAM-23230-1RB#0-Range1:0.009~0.15MHz

