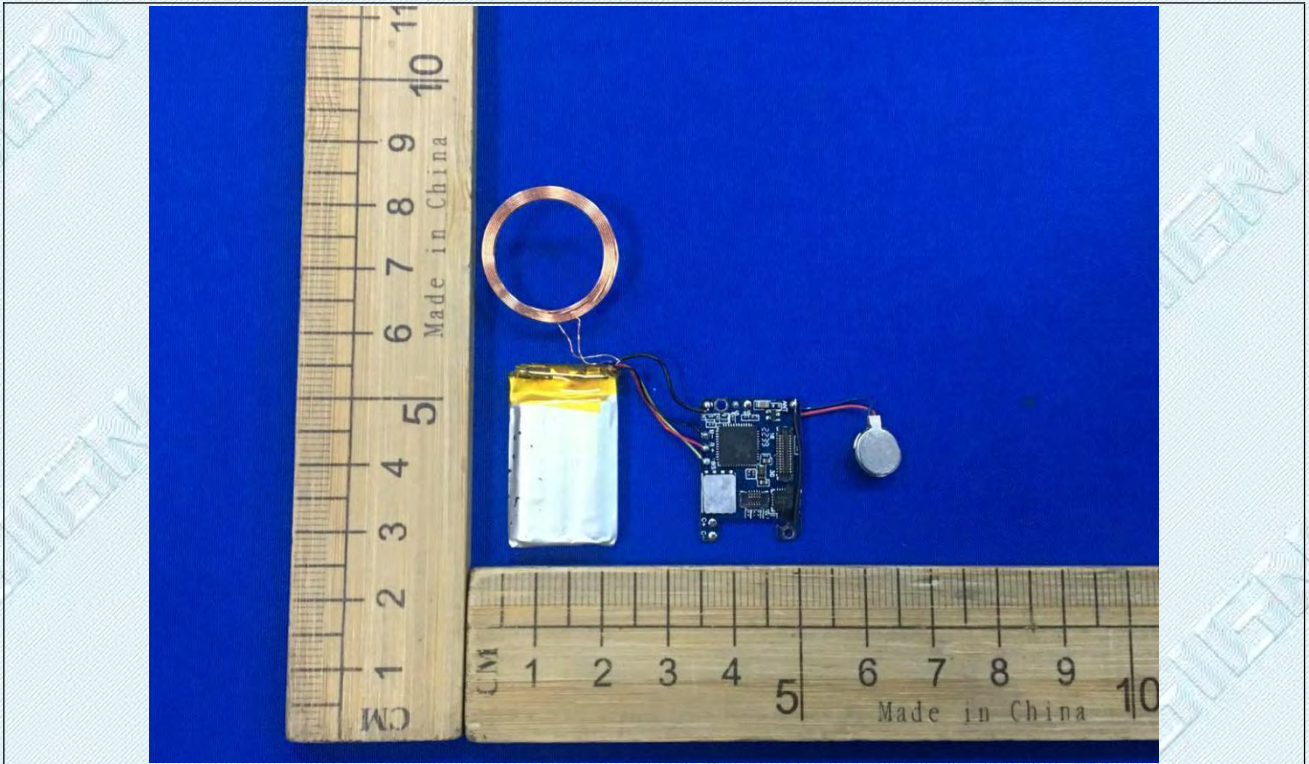
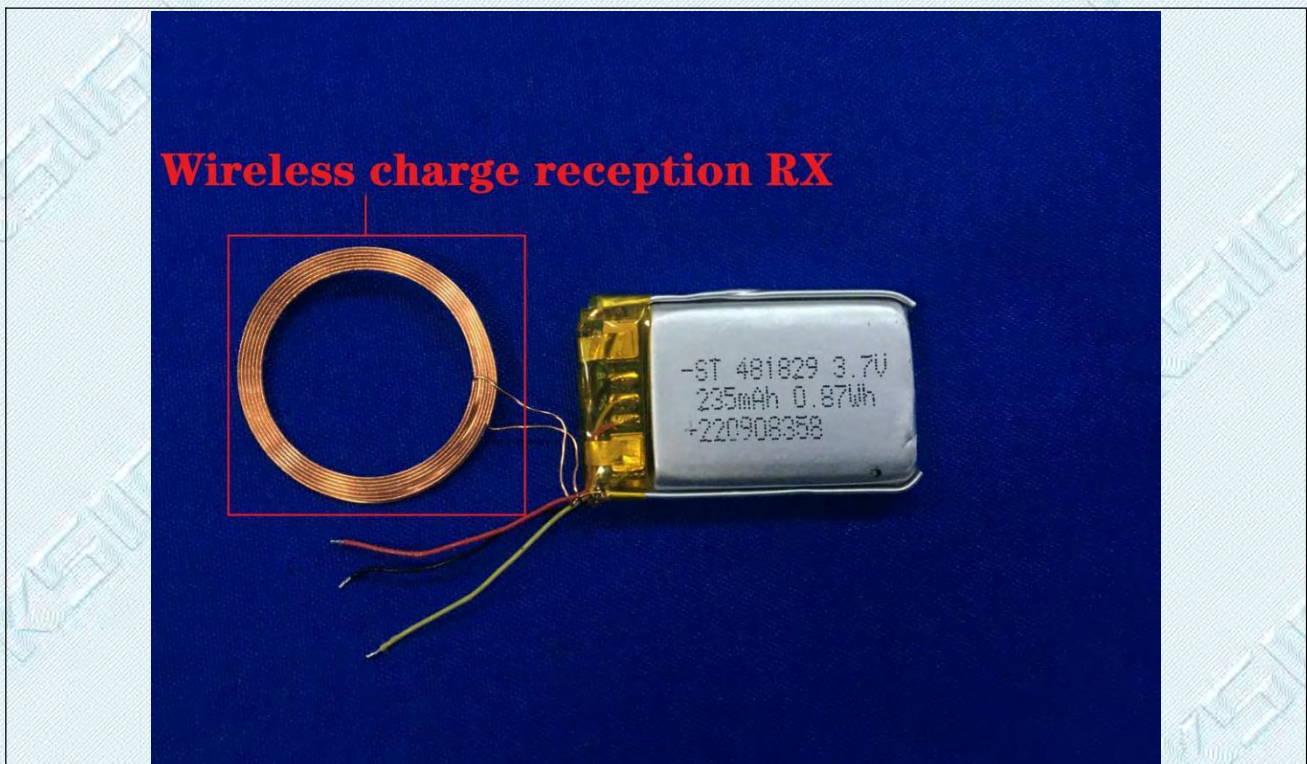
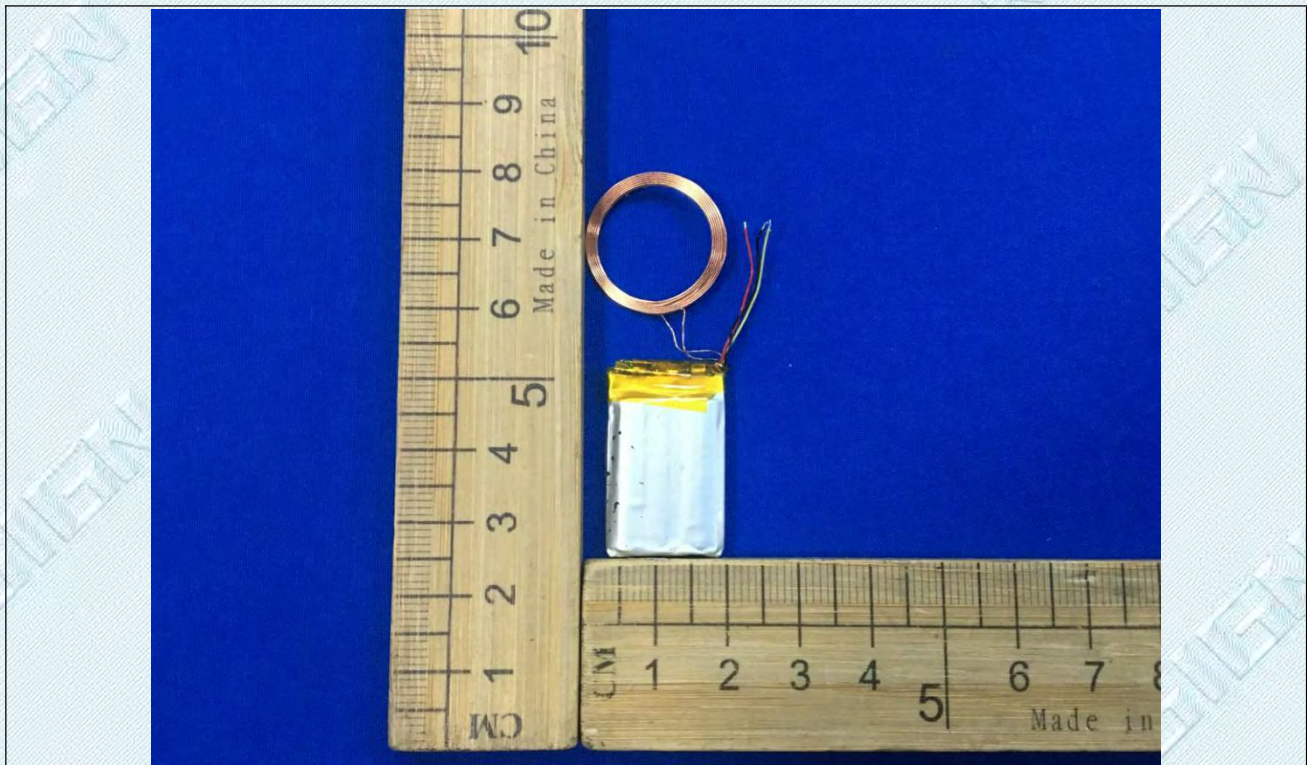


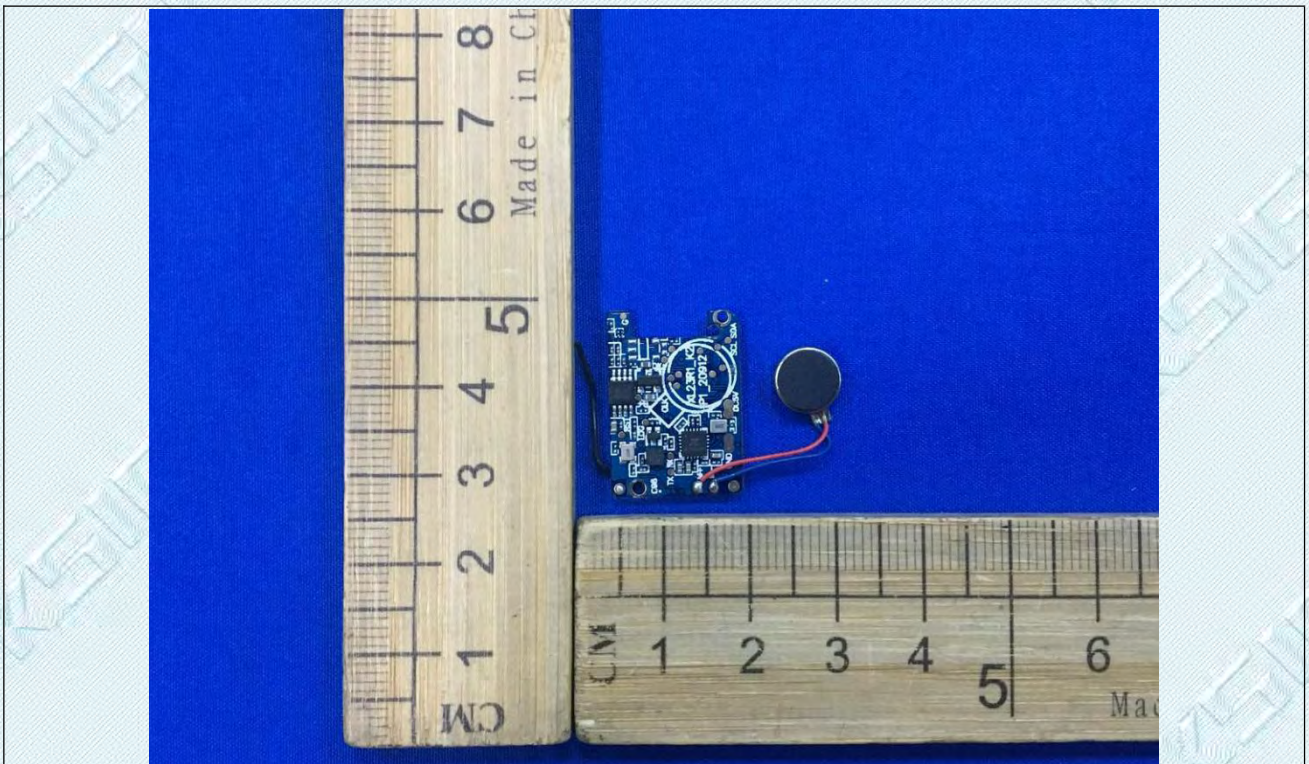
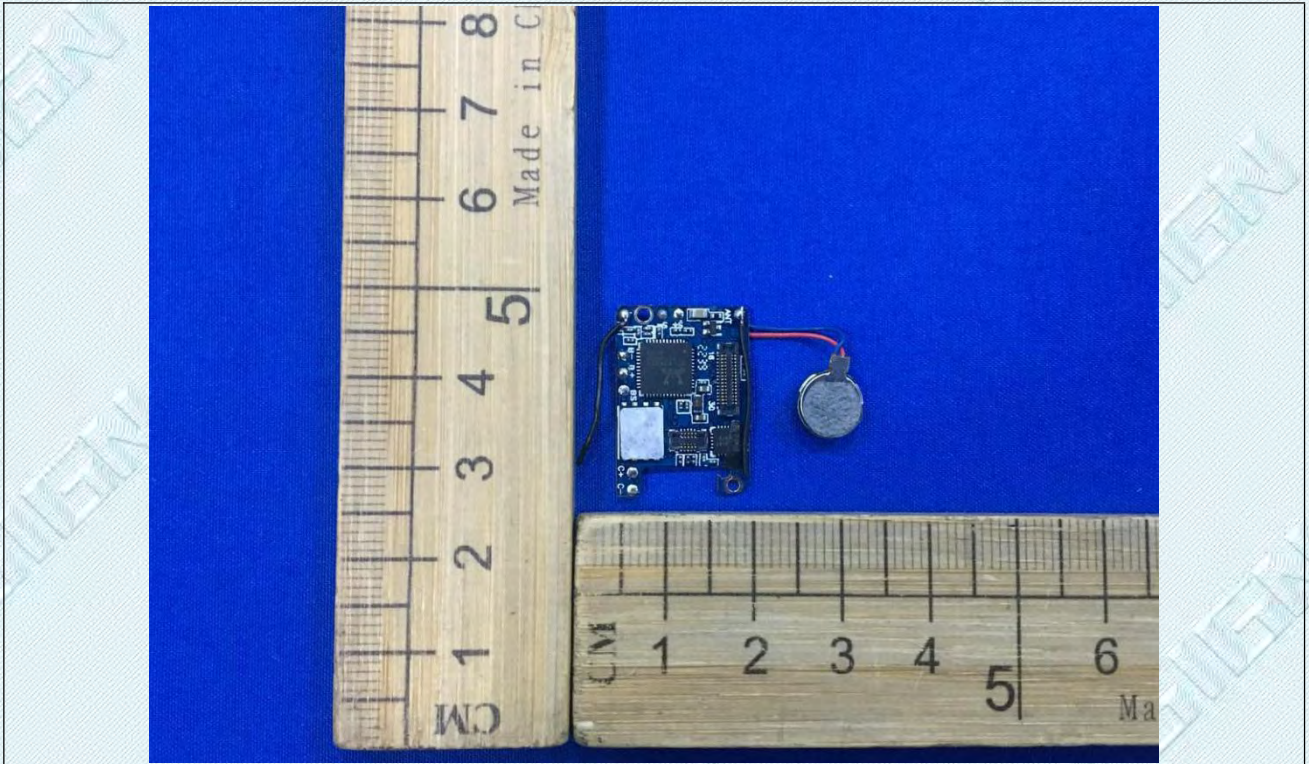


TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

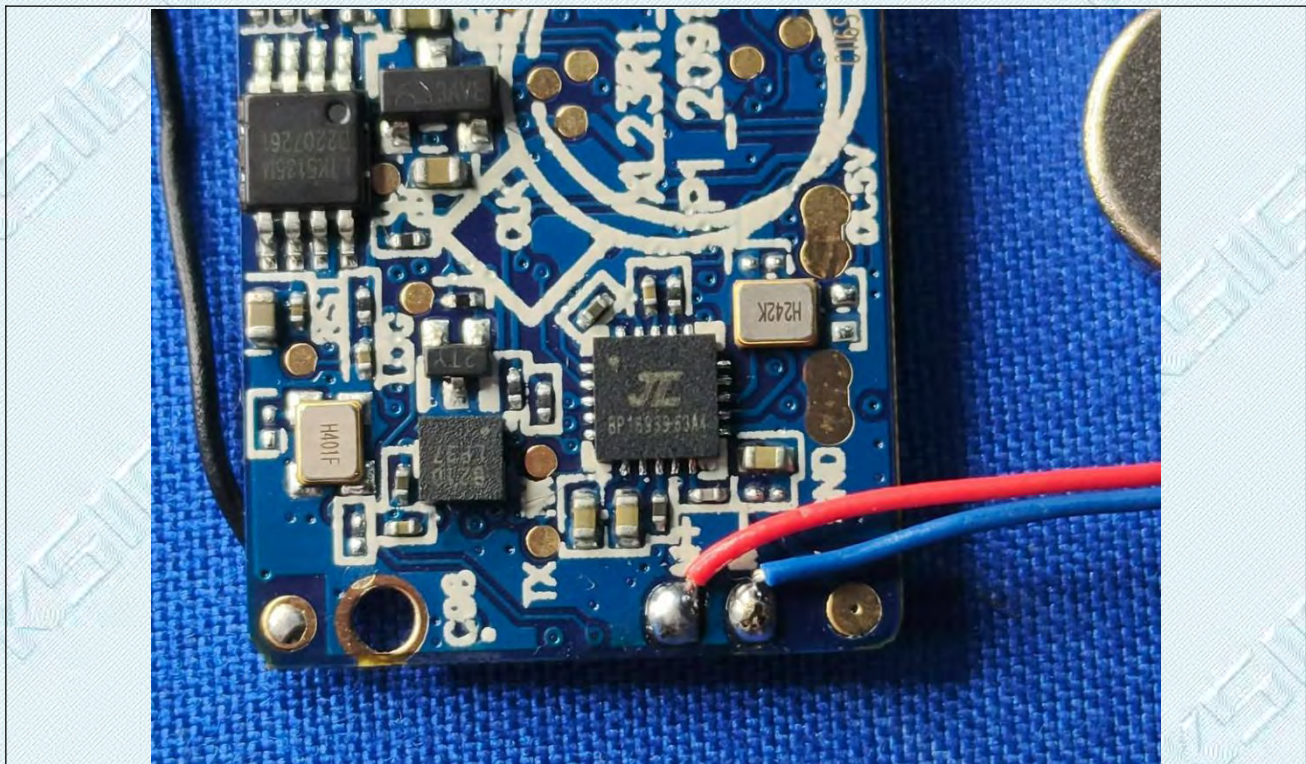
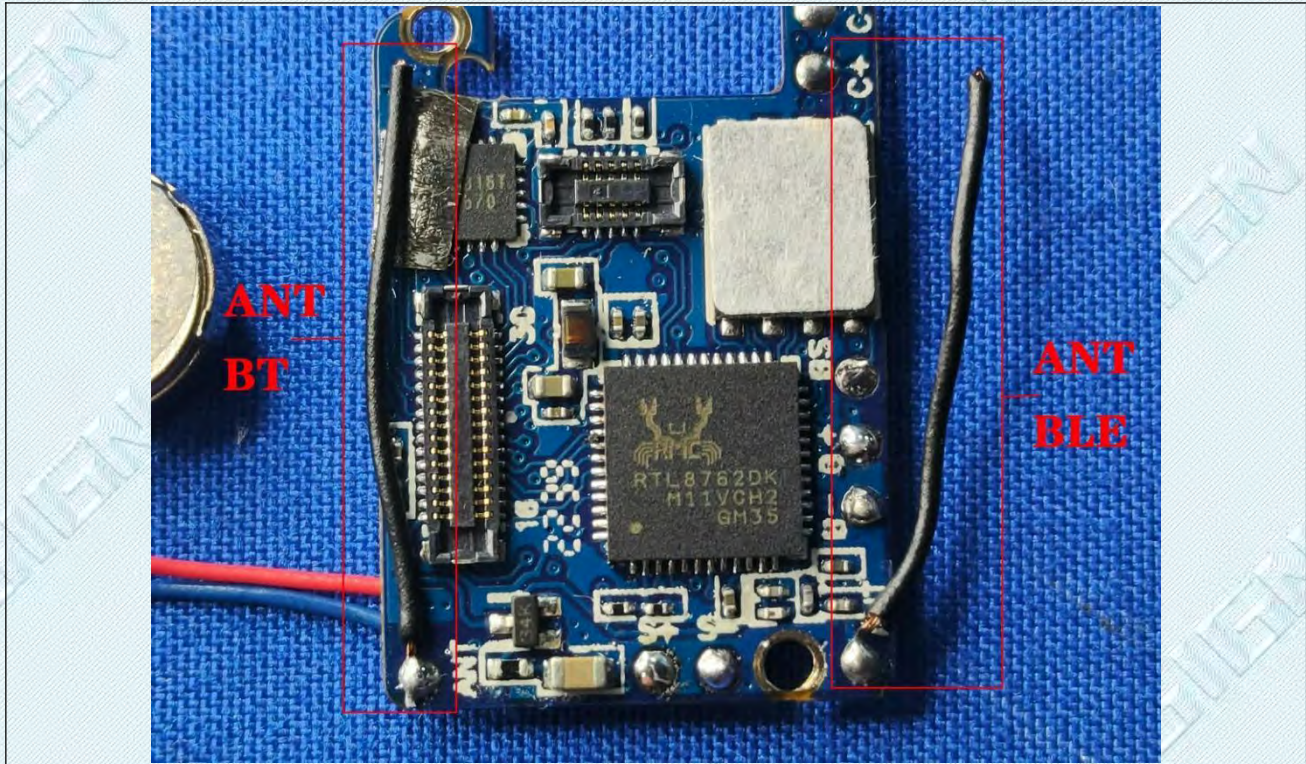




TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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Appendix

6.1. Appendix A: 20dB Emission Bandwidth

6.1.1. Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.04	2401.48	2402.52	---	PASS
		2441	1.05	2440.48	2441.53	---	PASS
		2480	1.07	2479.45	2480.53	---	PASS
2DH5	Ant1	2402	1.34	2401.33	2402.67	---	PASS
		2441	1.34	2440.33	2441.68	---	PASS
		2480	1.38	2479.32	2480.71	---	PASS
3DH5	Ant1	2402	1.30	2401.35	2402.65	---	PASS
		2441	1.30	2440.36	2441.65	---	PASS
		2480	1.30	2479.36	2480.65	---	PASS

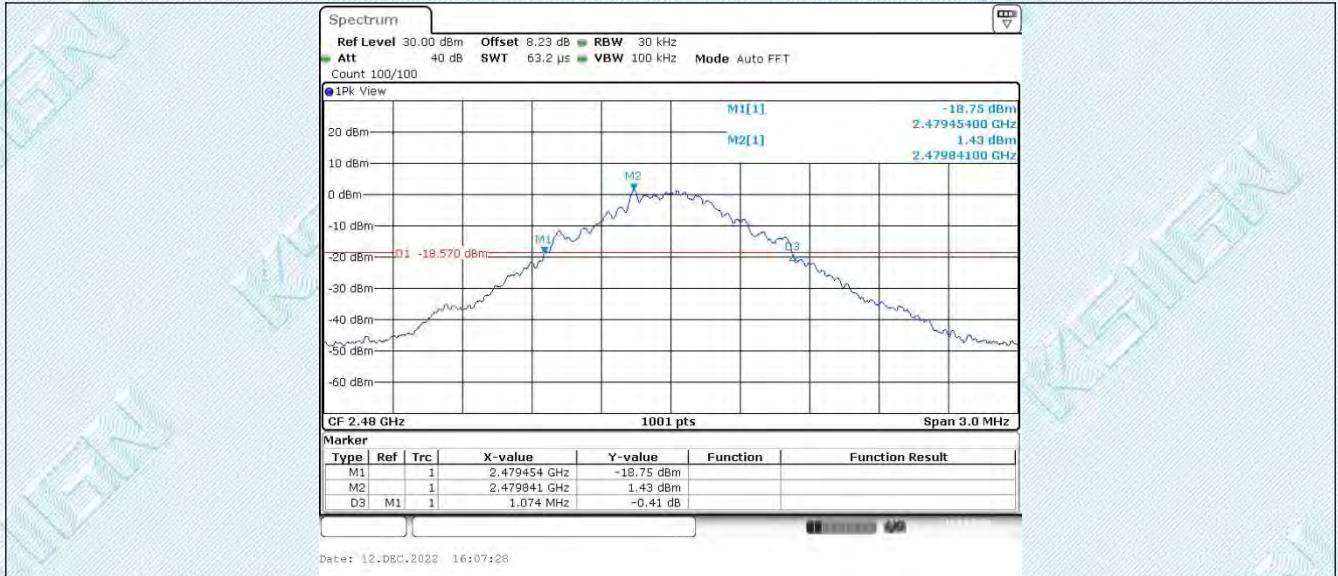
6.1.2. Test Graphs



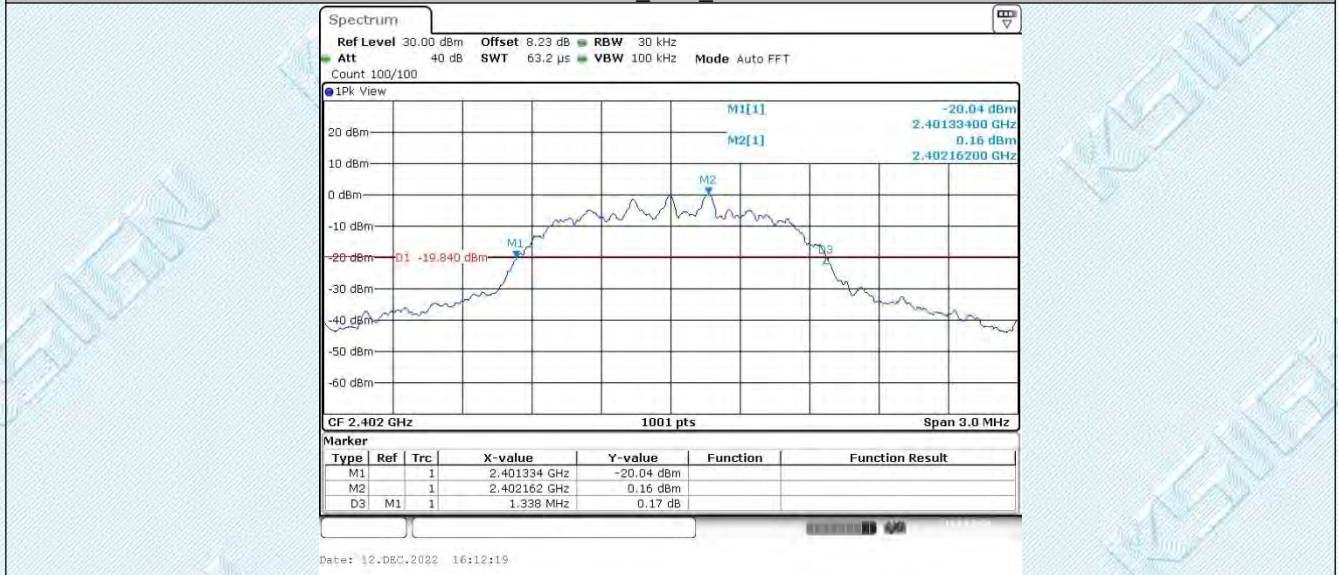
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

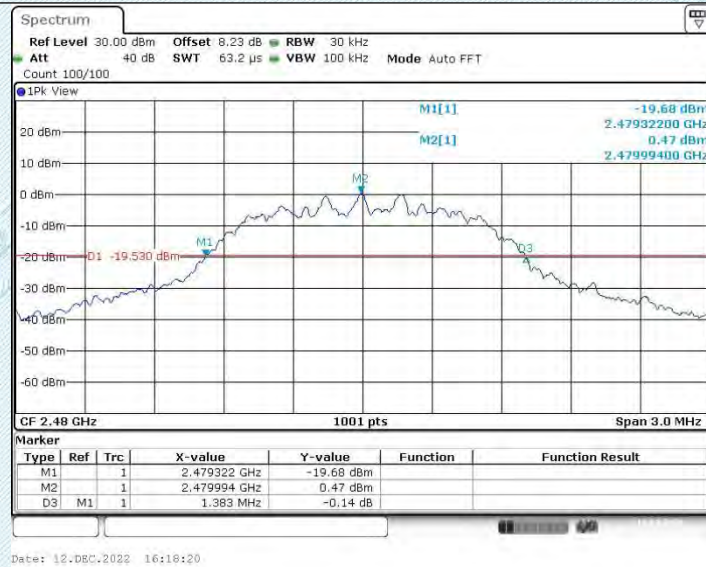


2DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

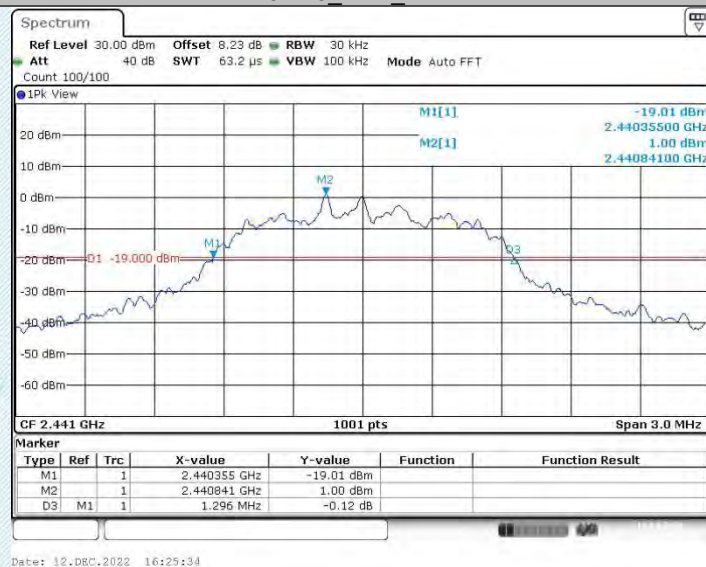
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF EMC_R1

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6.2. Appendix B: Occupied Channel Bandwidth

6.2.1. Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.953	2401.520	2402.474	---	PASS
		2441	0.968	2440.514	2441.483	---	PASS
		2480	0.992	2479.502	2480.495	---	PASS
2DH5	Ant1	2402	1.223	2401.398	2402.620	---	PASS
		2441	1.238	2440.395	2441.632	---	PASS
		2480	1.271	2479.380	2480.650	---	PASS
3DH5	Ant1	2402	1.22	2401.389	2402.608	---	PASS
		2441	1.226	2440.386	2441.611	---	PASS
		2480	1.244	2479.380	2480.623	---	PASS

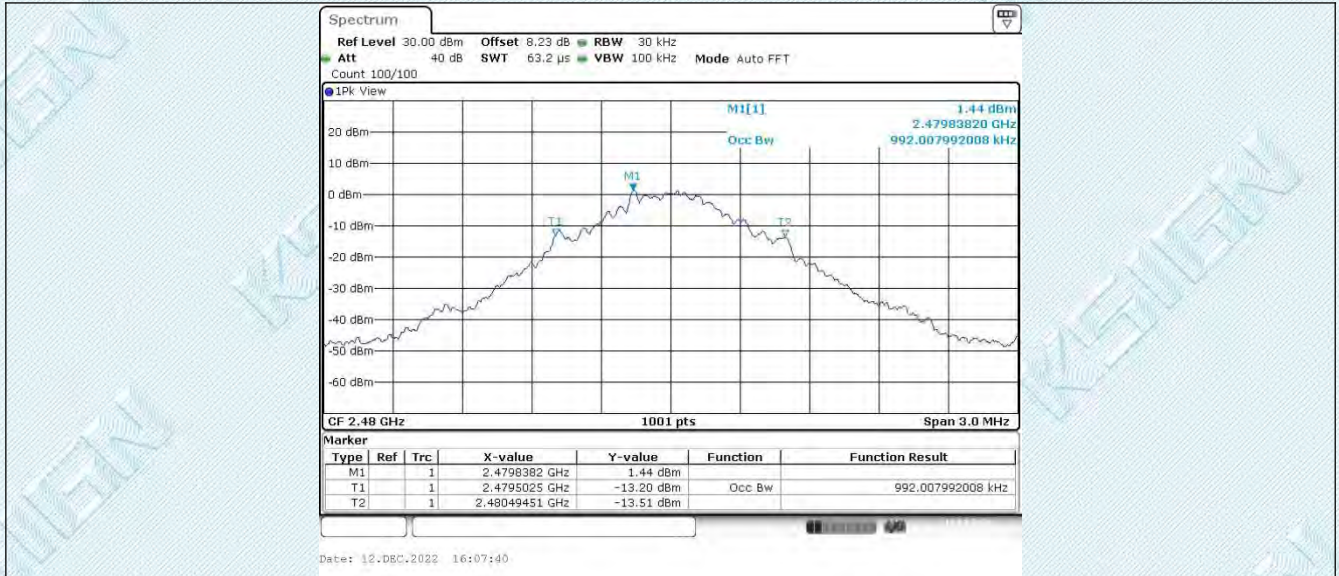
6.2.2. Test Graphs



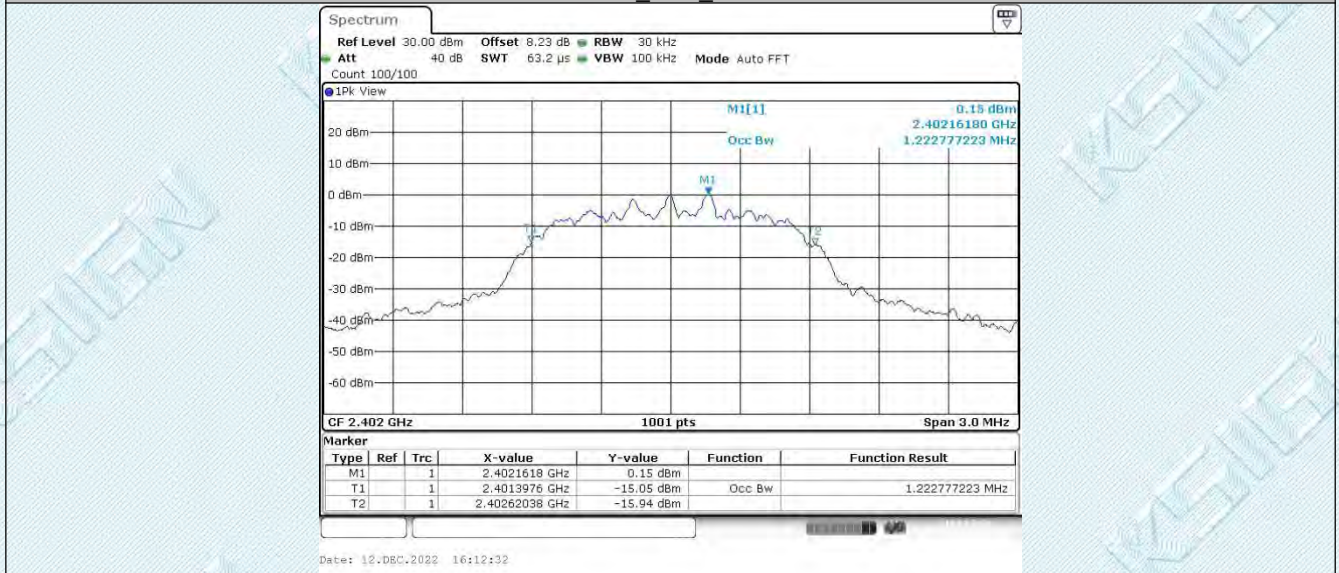
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

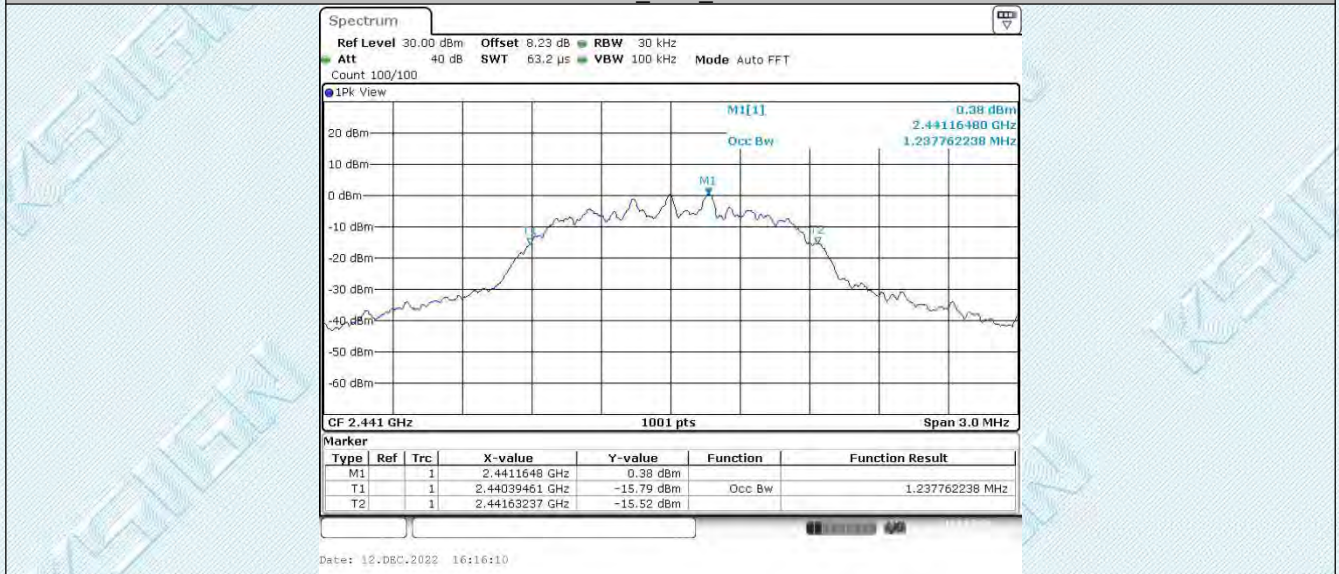
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com



2DH5_Ant1_2402



2DH5_Ant1_2441

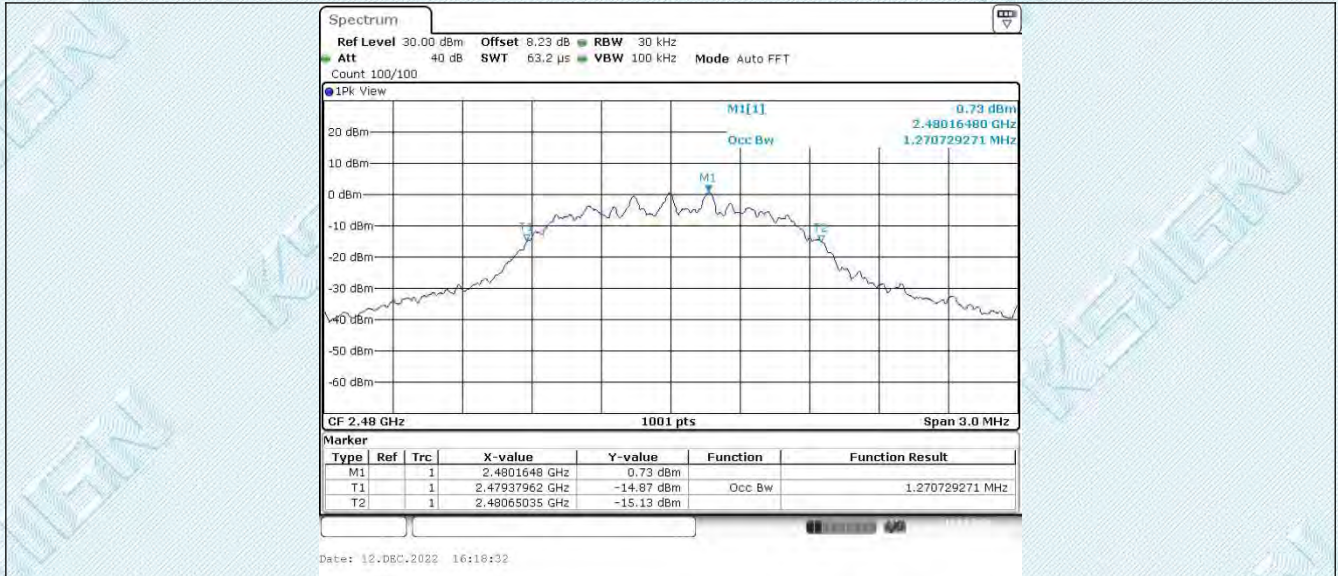


2DH5_Ant1_2480

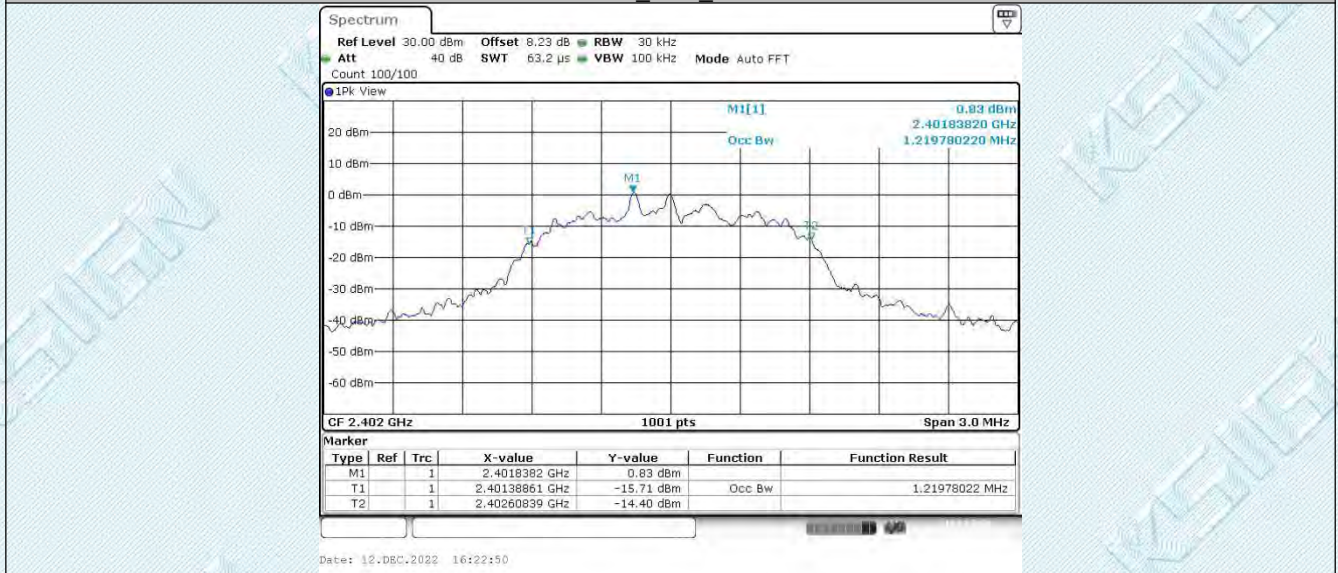
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

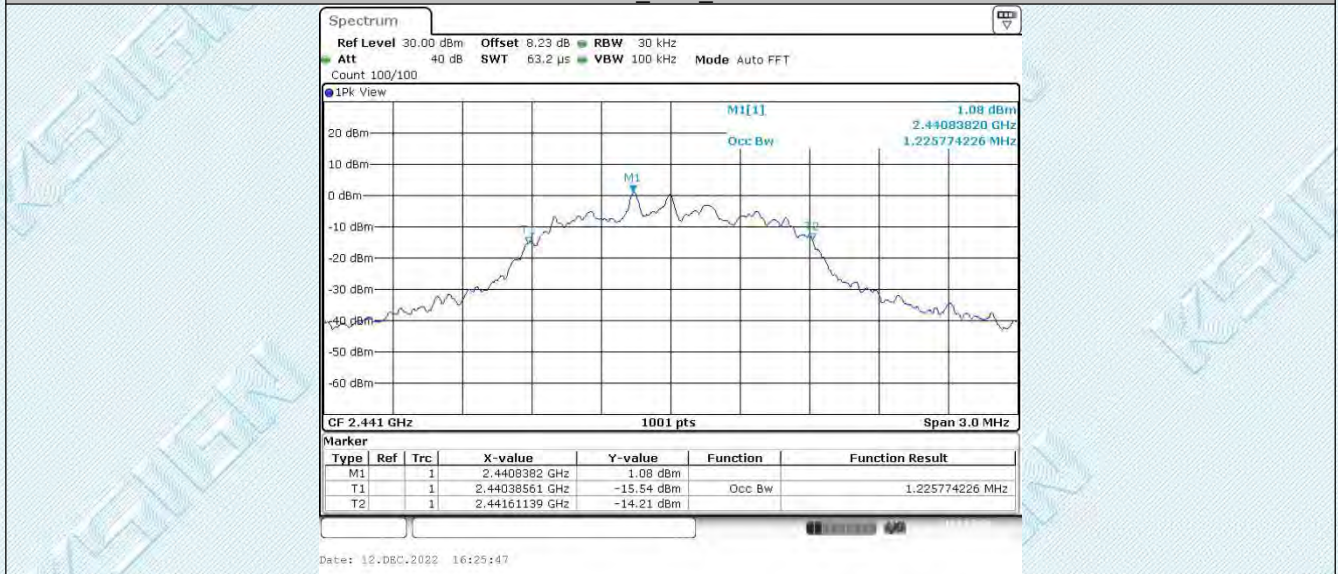
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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.3. Appendix C: Maximum conducted output power

6.3.1. Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.28	≤30	PASS
		2441	3.57	≤30	PASS
		2480	4.02	≤30	PASS
2DH5	Ant1	2402	3.92	≤20.97	PASS
		2441	4.02	≤20.97	PASS
		2480	4.51	≤20.97	PASS
3DH5	Ant1	2402	4.27	≤20.97	PASS
		2441	4.41	≤20.97	PASS
		2480	4.72	≤20.97	PASS

6.3.2. Test Graphs



TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

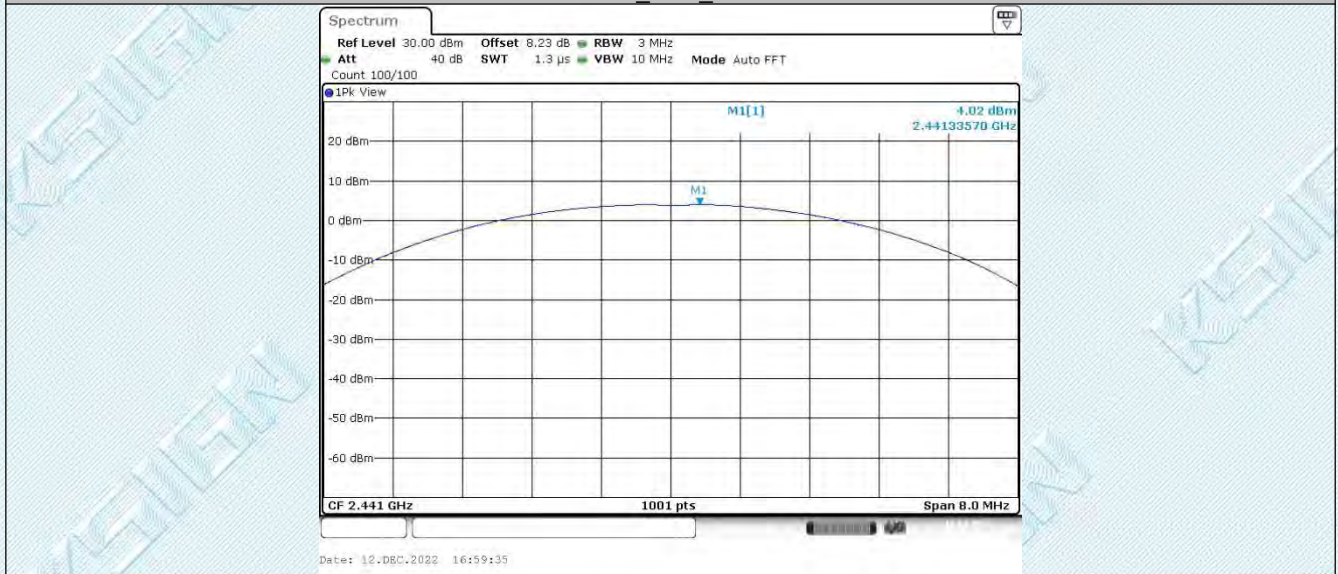
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com



2DH5_Ant1_2402



2DH5_Ant1_2441

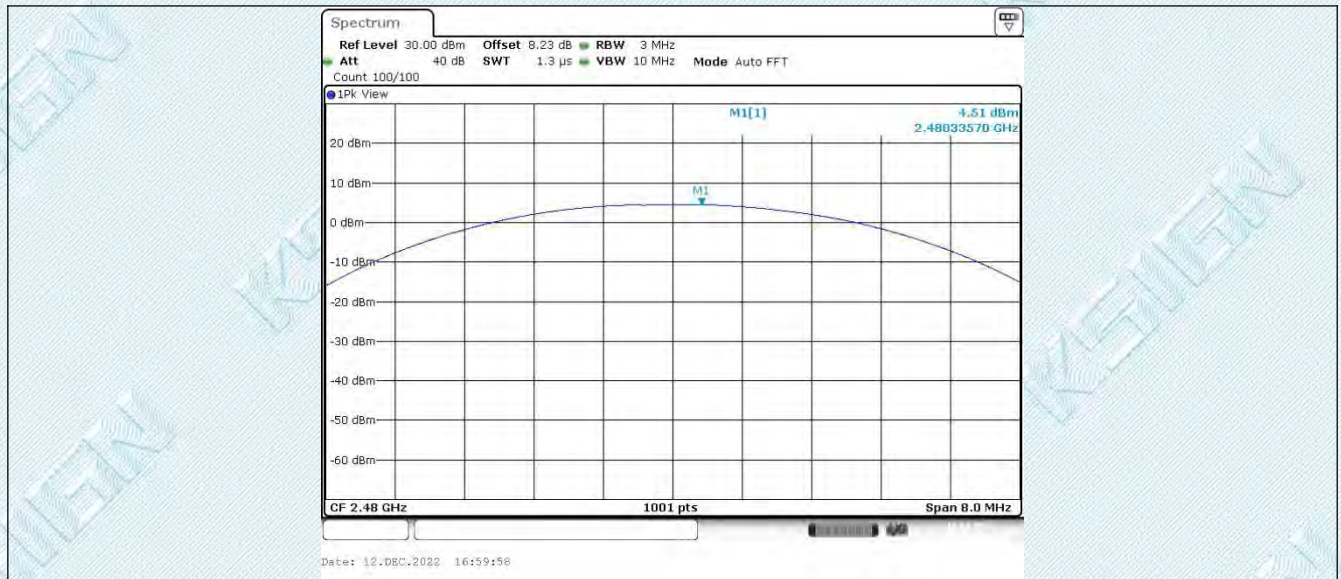


2DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

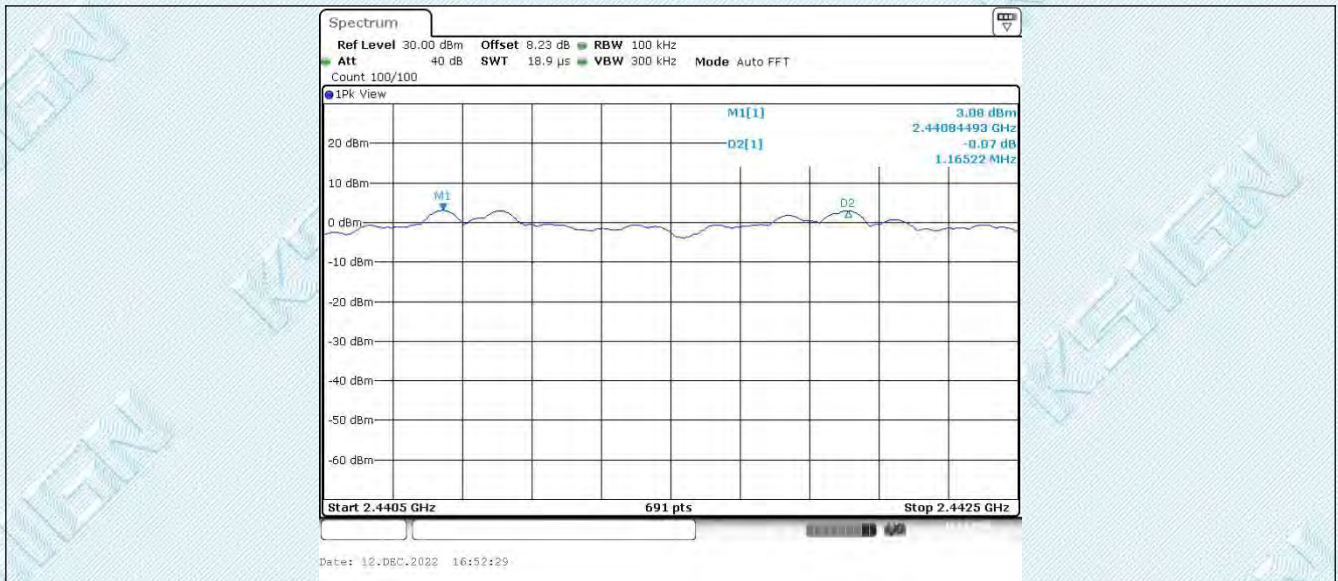
6.4. Appendix D: Carrier frequency separation

6.4.1. Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.125	≥ 1.070	PASS
2DH5	Ant1	Hop	1	≥ 0.920	PASS
3DH5	Ant1	Hop	1.165	≥ 0.867	PASS

6.4.2. Test Graphs





TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.5. Appendix E: Time of occupancy

6.5.1. Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.86	110	0.315	≤0.4	PASS
2DH5	Ant1	Hop	2.87	120	0.344	≤0.4	PASS
3DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS

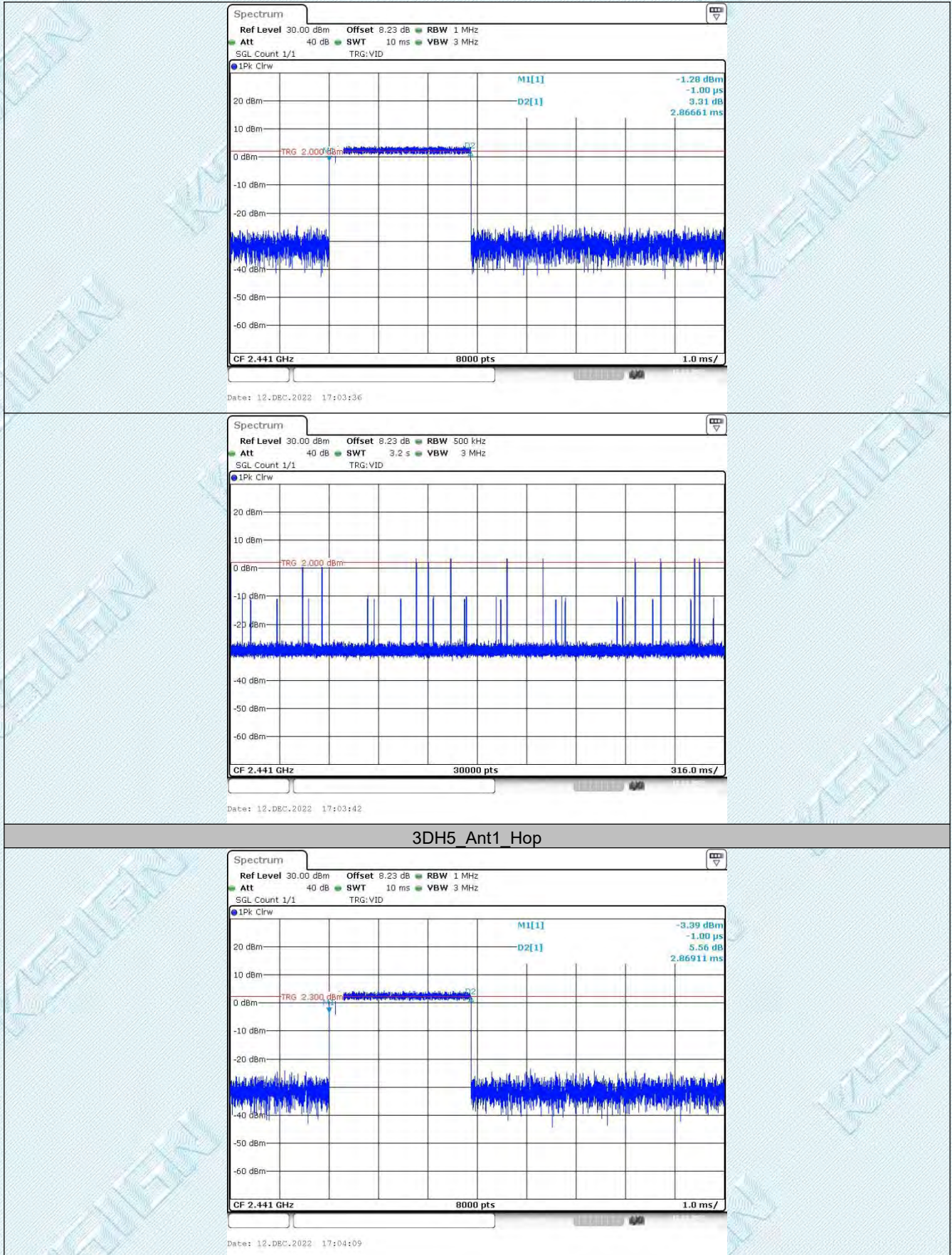
6.5.2. Test Graphs



TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

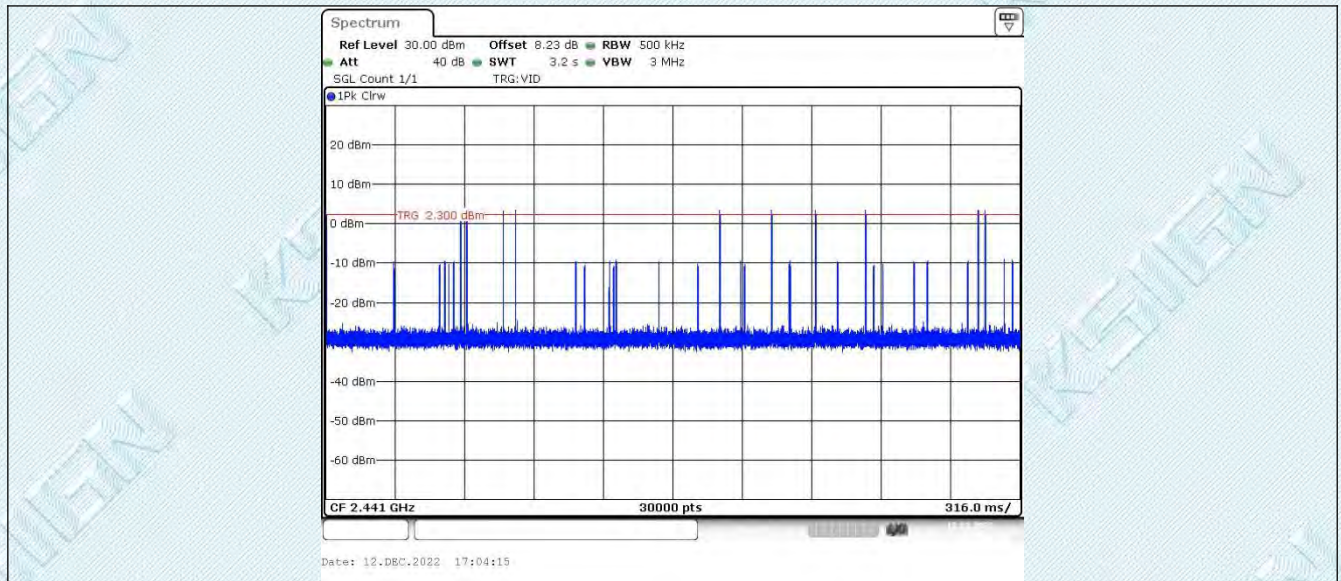


3DH5_Ant1_Hop

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

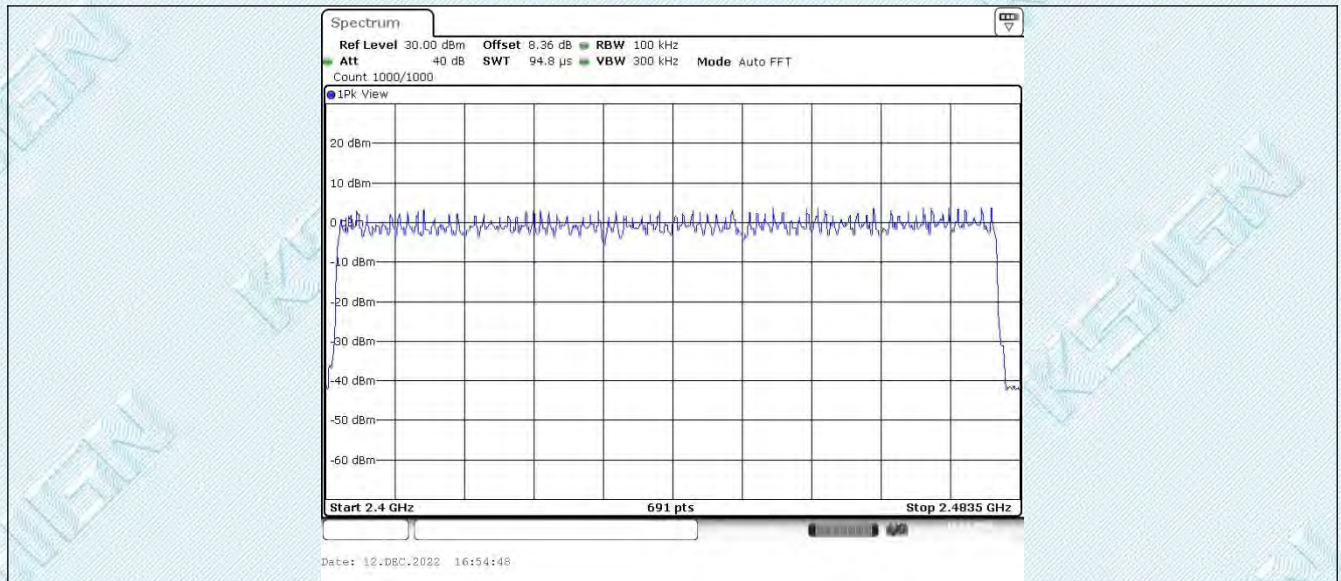
6.6. Appendix F: Number of hopping channels

6.6.1. Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.6.2. Test Graphs





TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

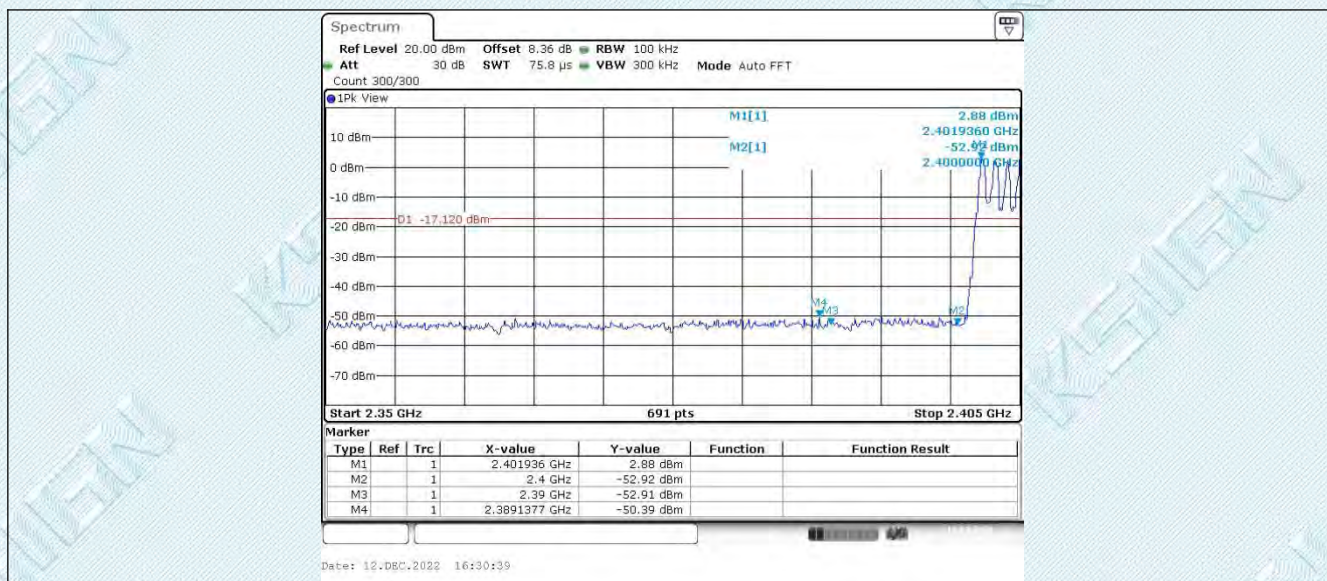
6.7. Appendix G: Band edge measurements

6.7.1. Test Result

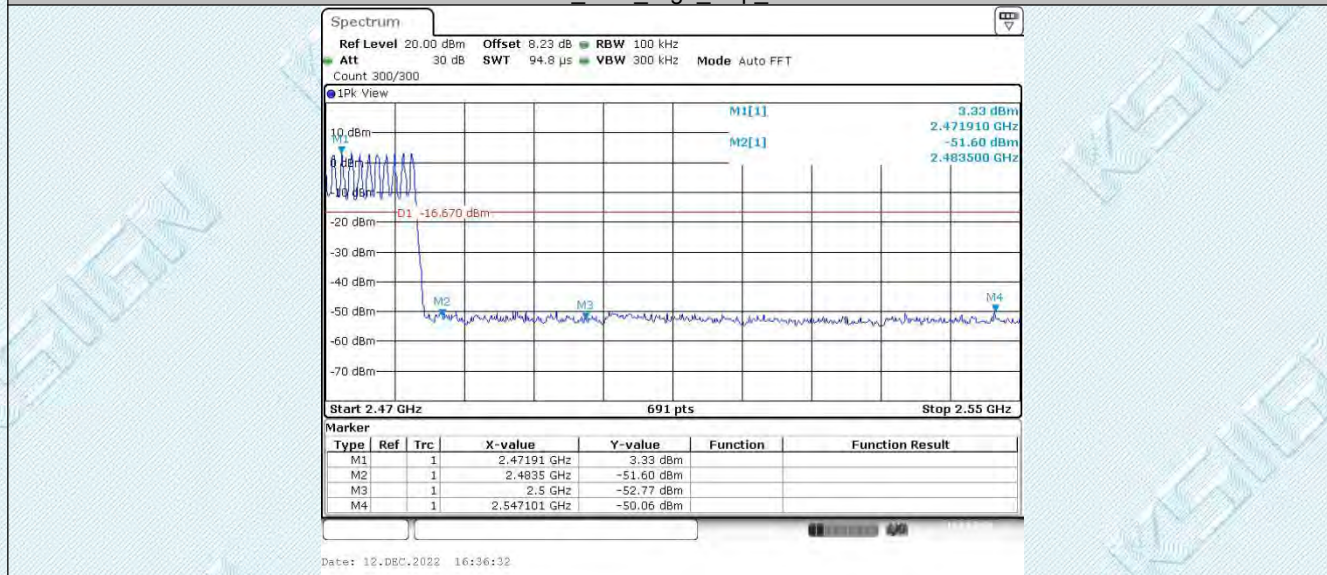
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.07	-50	≤-16.93	PASS
		High	2480	3.19	-48.78	≤-16.81	PASS
		Low	Hop_2402	2.88	-50.39	≤-17.12	PASS
		High	Hop_2480	3.33	-50.06	≤-16.67	PASS
2DH5	Ant1	Low	2402	2.85	-48.99	≤-17.15	PASS
		High	2480	2.65	-49.73	≤-17.35	PASS
		Low	Hop_2402	3.17	-49.43	≤-16.83	PASS
		High	Hop_2480	-0.20	-49.1	≤-20.2	PASS
3DH5	Ant1	Low	2402	2.93	-50.22	≤-17.07	PASS
		High	2480	3.50	-49.47	≤-16.5	PASS
		Low	Hop_2402	3.24	-49.16	≤-16.76	PASS
		High	Hop_2480	3.45	-50.02	≤-16.55	PASS

6.7.2. Test Graphs

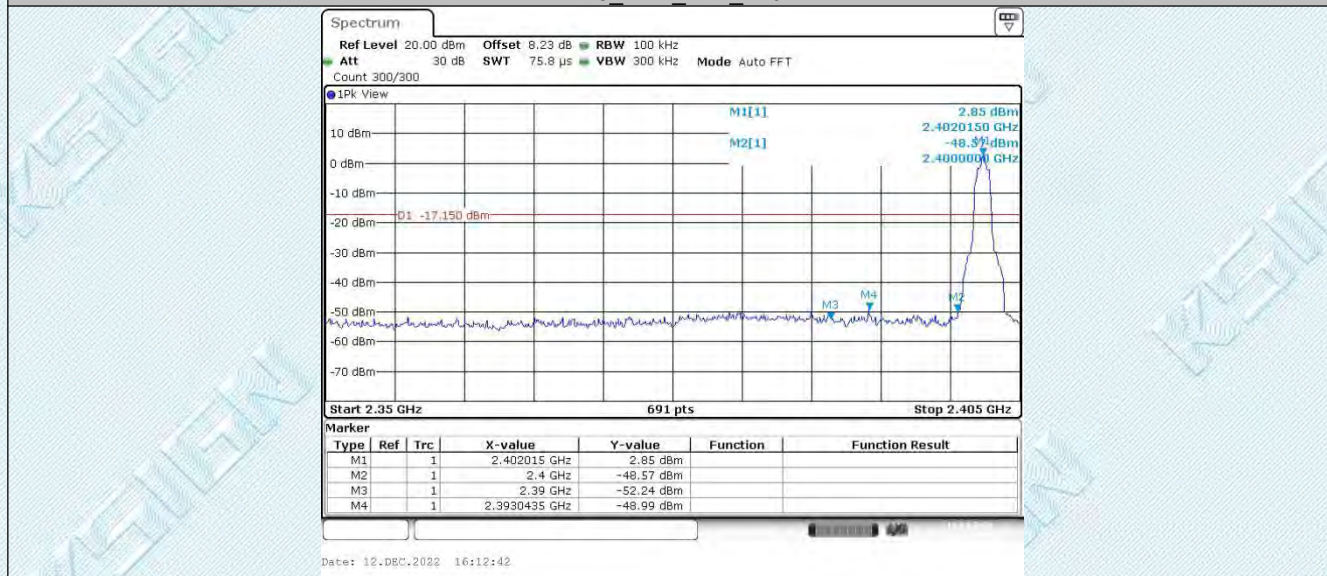




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

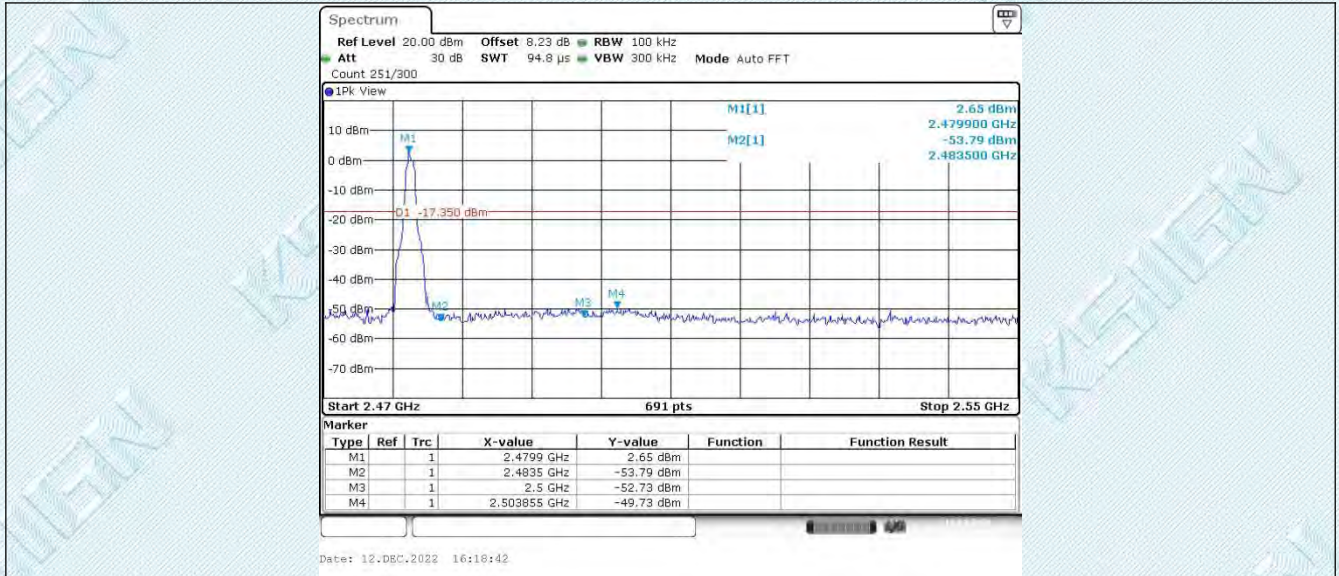


2DH5_Ant1_High_2480

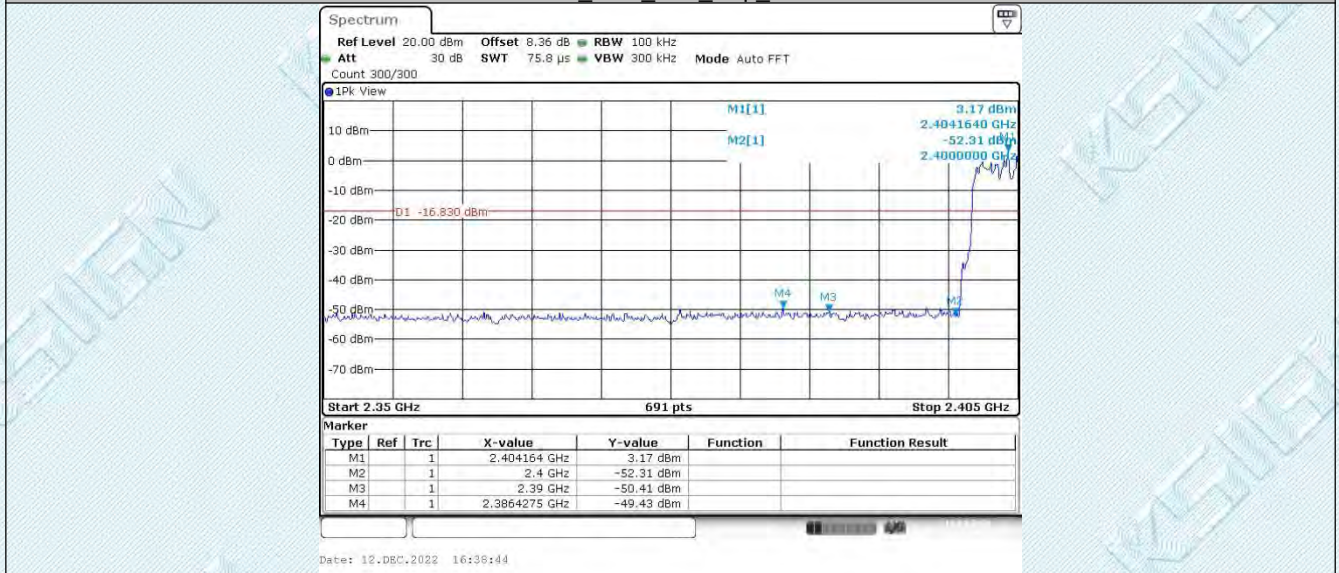
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

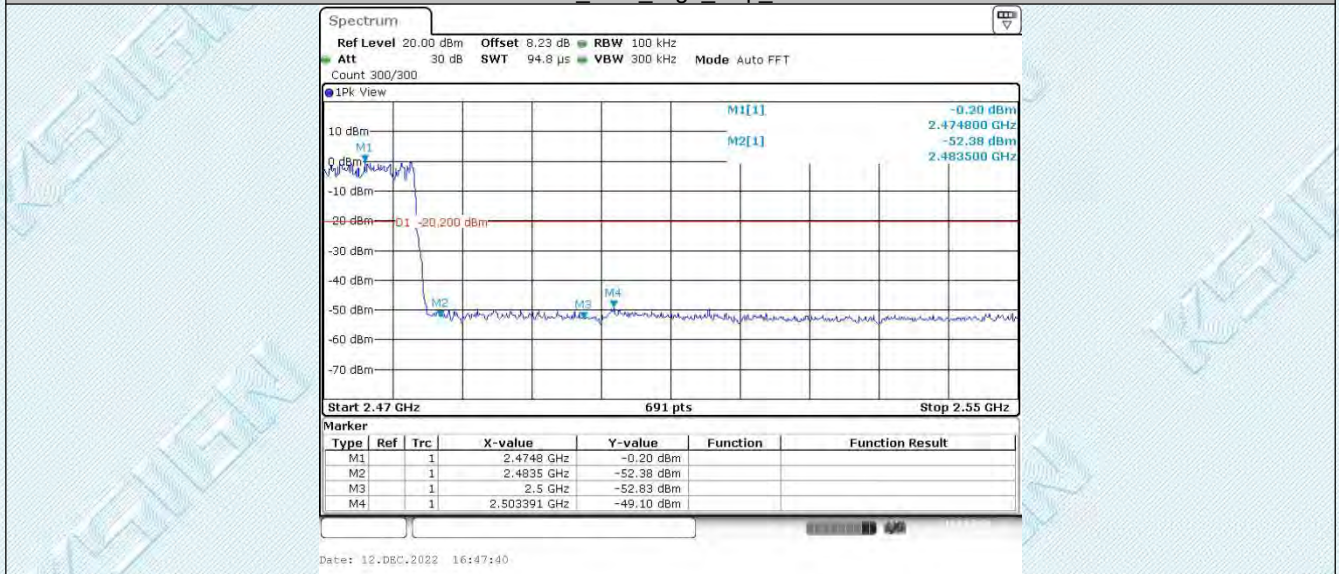
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2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

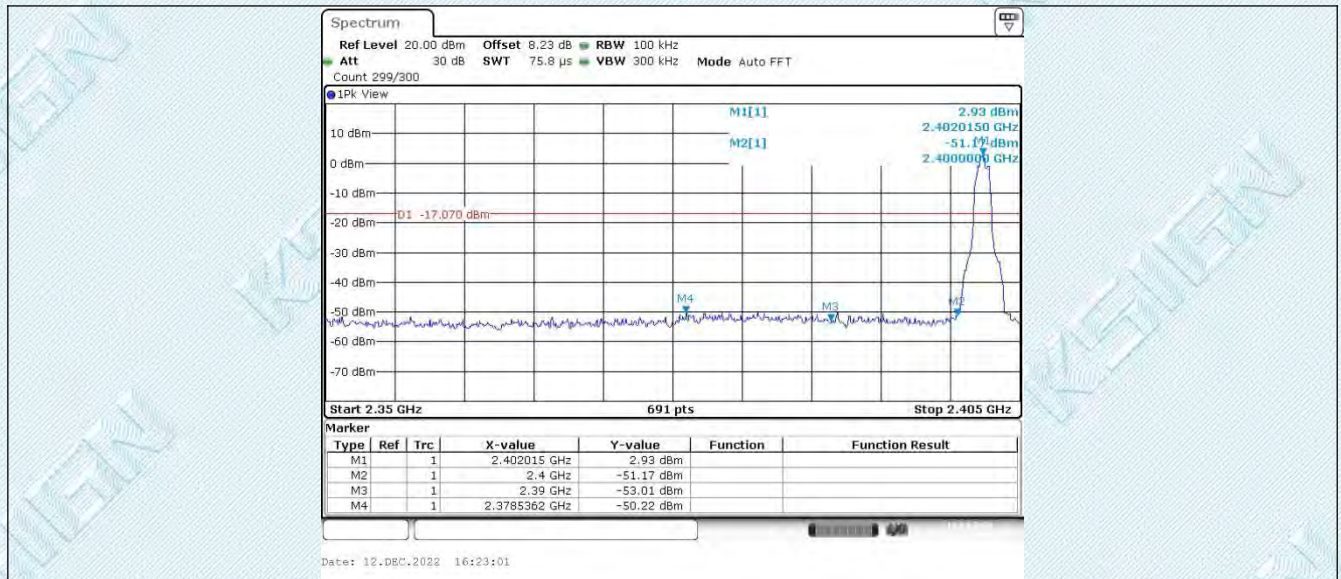


3DH5_Ant1_Low_2402

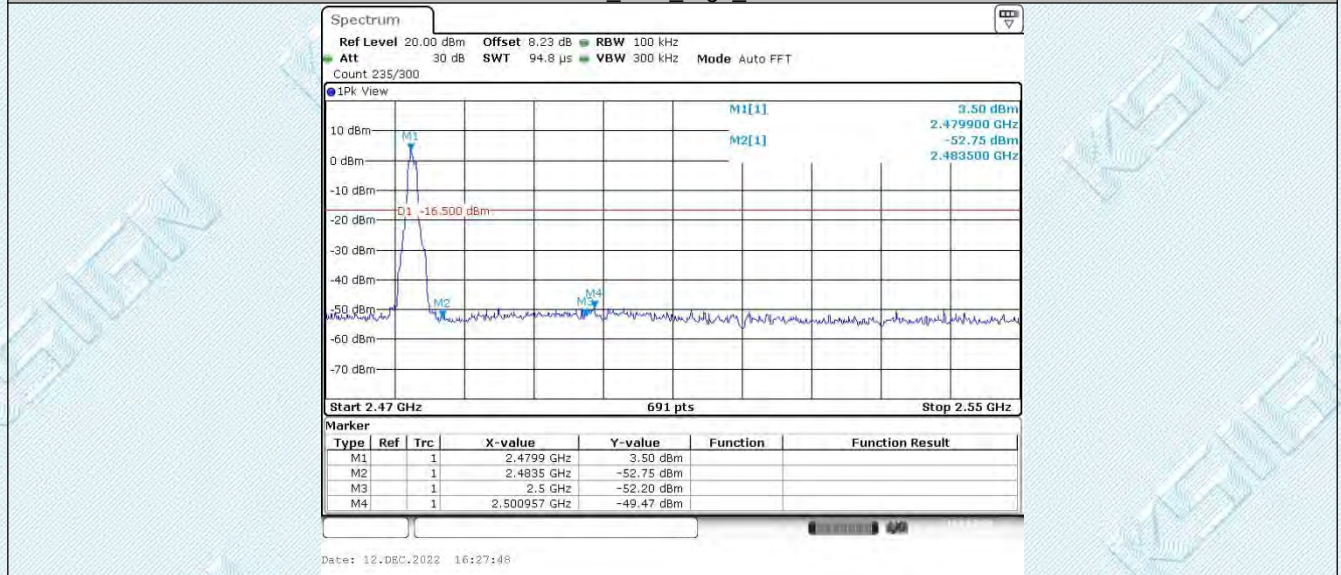
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

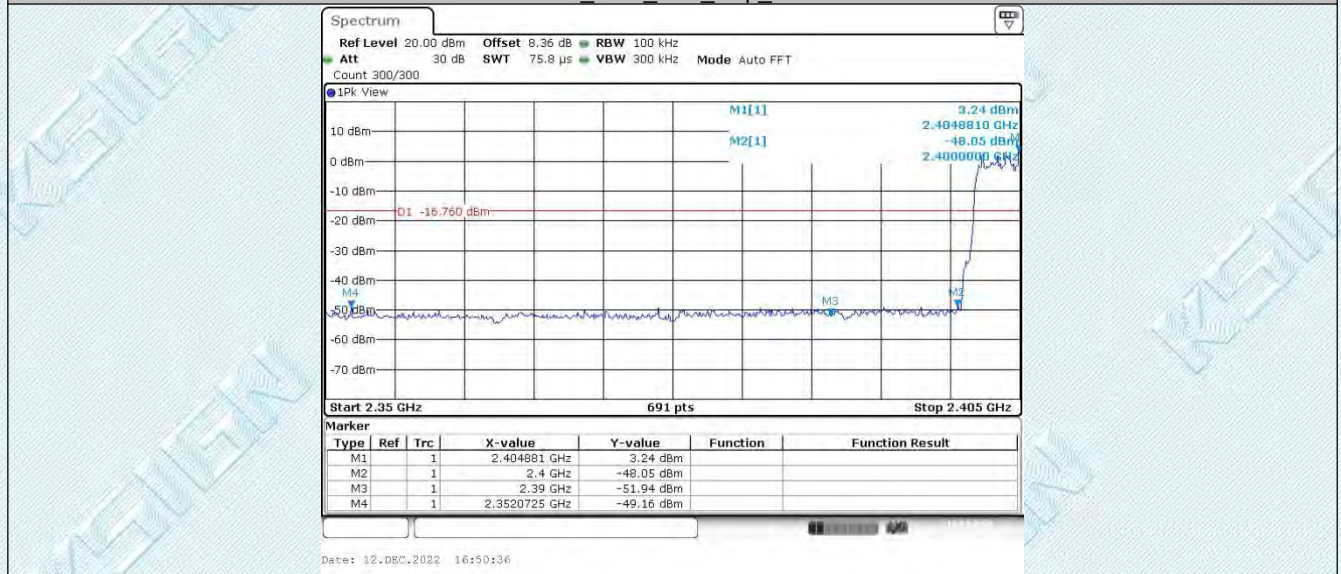
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3DH5_Ant1_High_2480



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

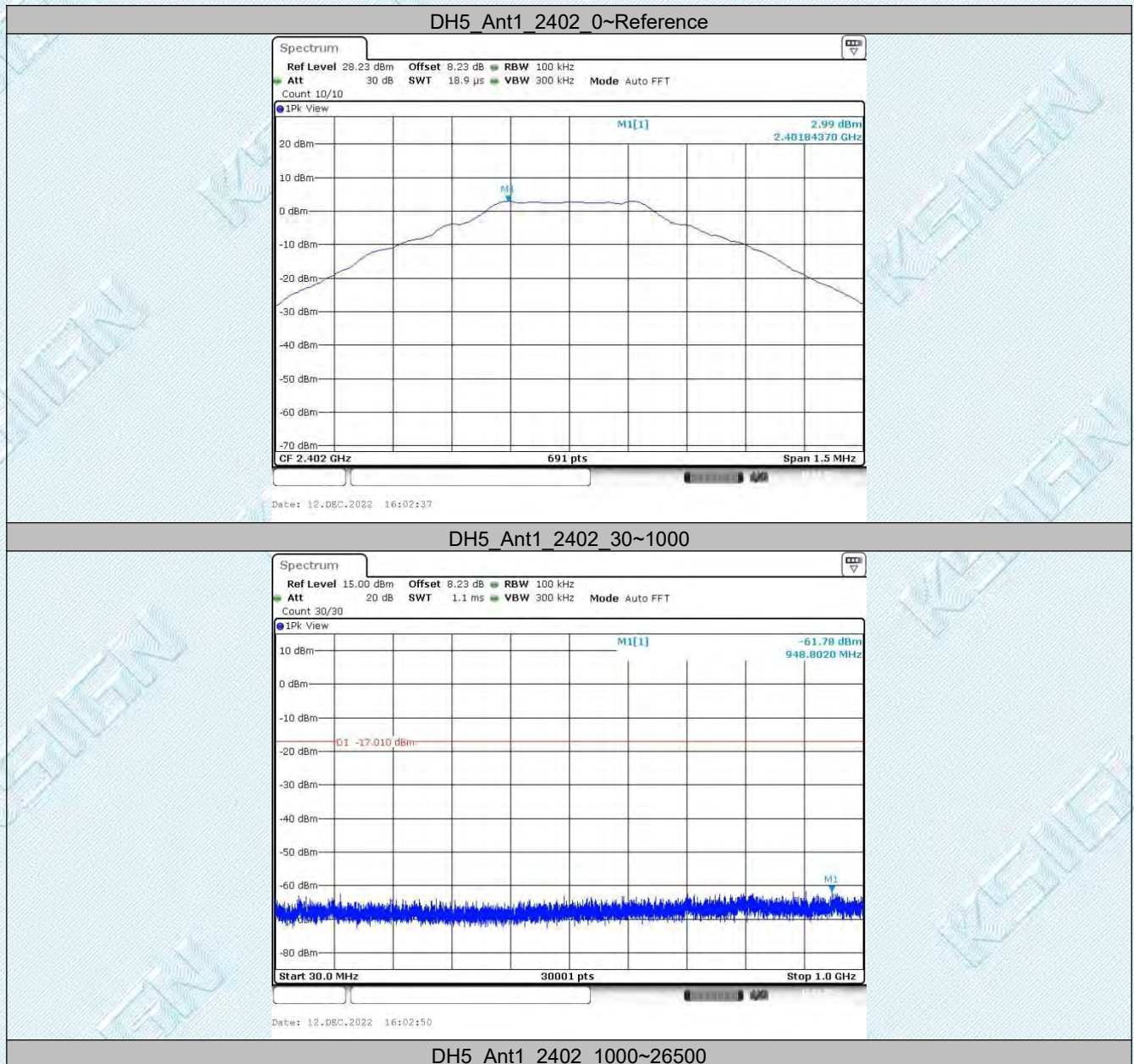
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

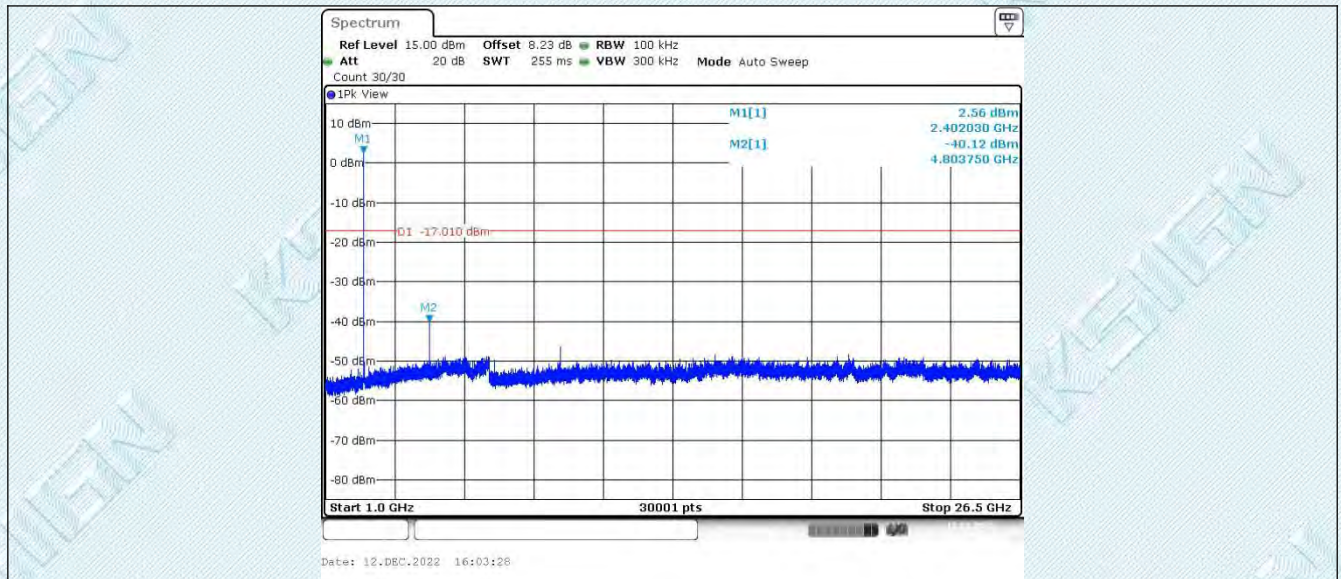
6.8. Appendix H: Conducted Spurious Emission

6.8.1. Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.99	2.99	---	PASS
			30~1000	2.99	-61.78	≤-17.01	PASS
			1000~26500	2.99	-40.12	≤-17.01	PASS
		2441	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-61.59	≤-16.89	PASS
			1000~26500	3.11	-39.4	≤-16.89	PASS
		2480	Reference	3.40	3.40	---	PASS
			30~1000	3.40	-60.45	≤-16.6	PASS
			1000~26500	3.40	-40.94	≤-16.6	PASS
2DH5	Ant1	2402	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-59.89	≤-16.92	PASS
			1000~26500	3.08	-42.47	≤-16.92	PASS
		2441	Reference	3.17	3.17	---	PASS
			30~1000	3.17	-61.95	≤-16.83	PASS
			1000~26500	3.17	-41.17	≤-16.83	PASS
		2480	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-60.89	≤-16.52	PASS
			1000~26500	3.48	-41.21	≤-16.52	PASS
3DH5	Ant1	2402	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-61.29	≤-16.92	PASS
			1000~26500	3.08	-42.84	≤-16.92	PASS
		2441	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-61.56	≤-16.84	PASS
			1000~26500	3.16	-40.41	≤-16.84	PASS
		2480	Reference	3.43	3.43	---	PASS
			30~1000	3.43	-61.98	≤-16.57	PASS
			1000~26500	3.43	-40.91	≤-16.57	PASS

6.8.2. Test Graphs

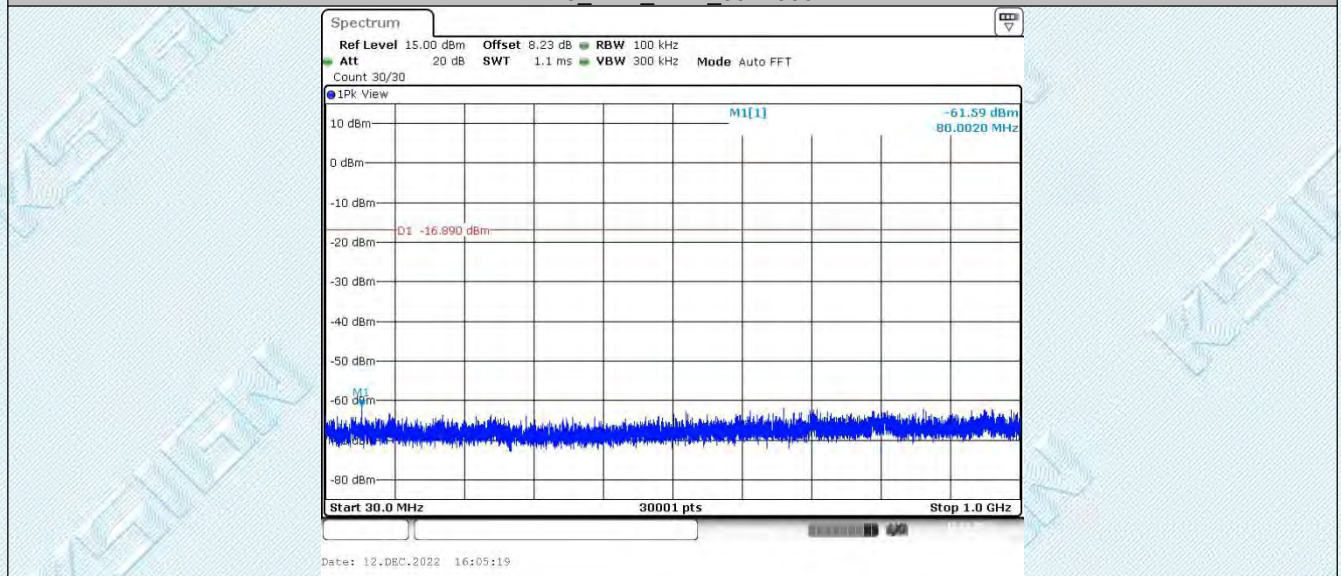




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

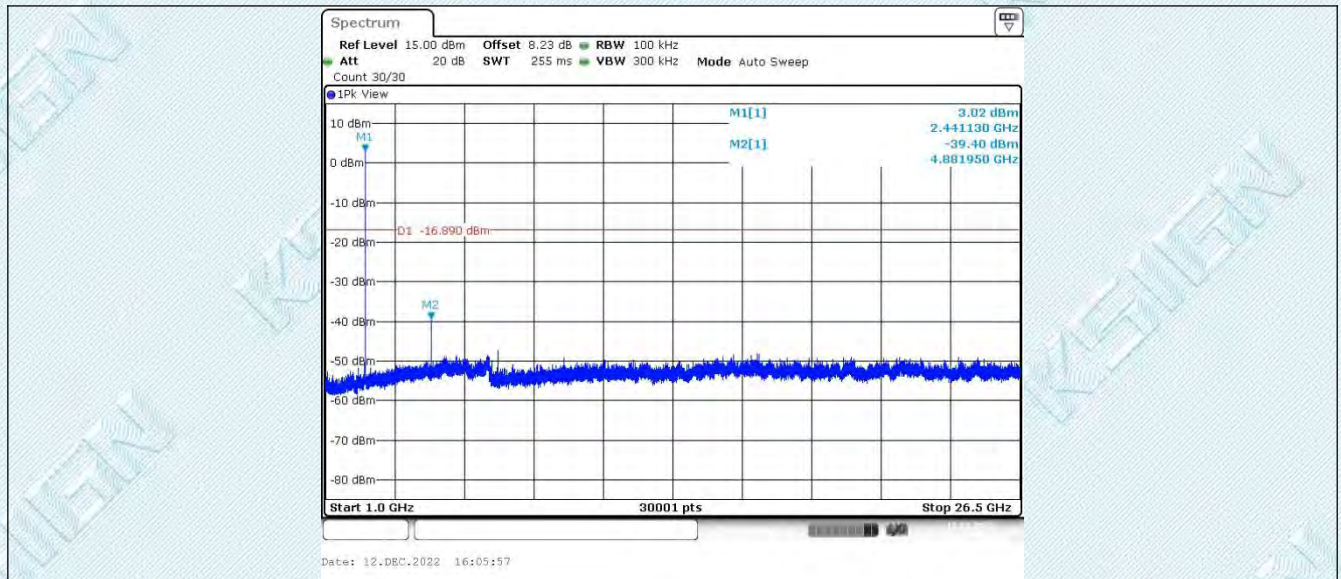


DH5_Ant1_2441_1000~26500

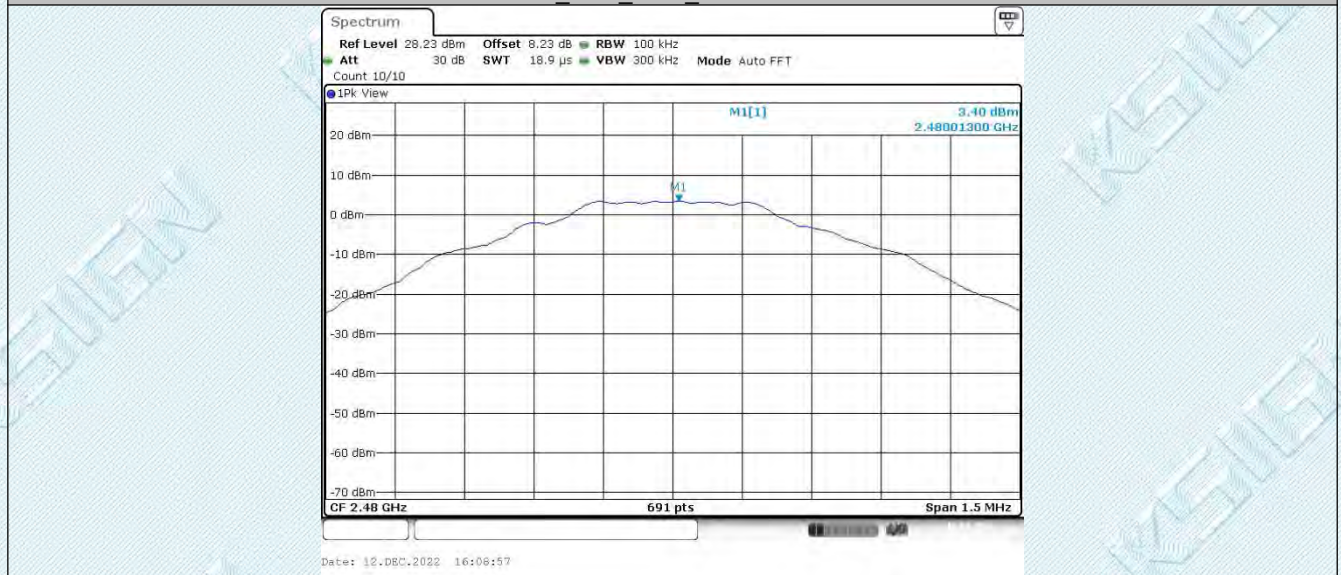
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

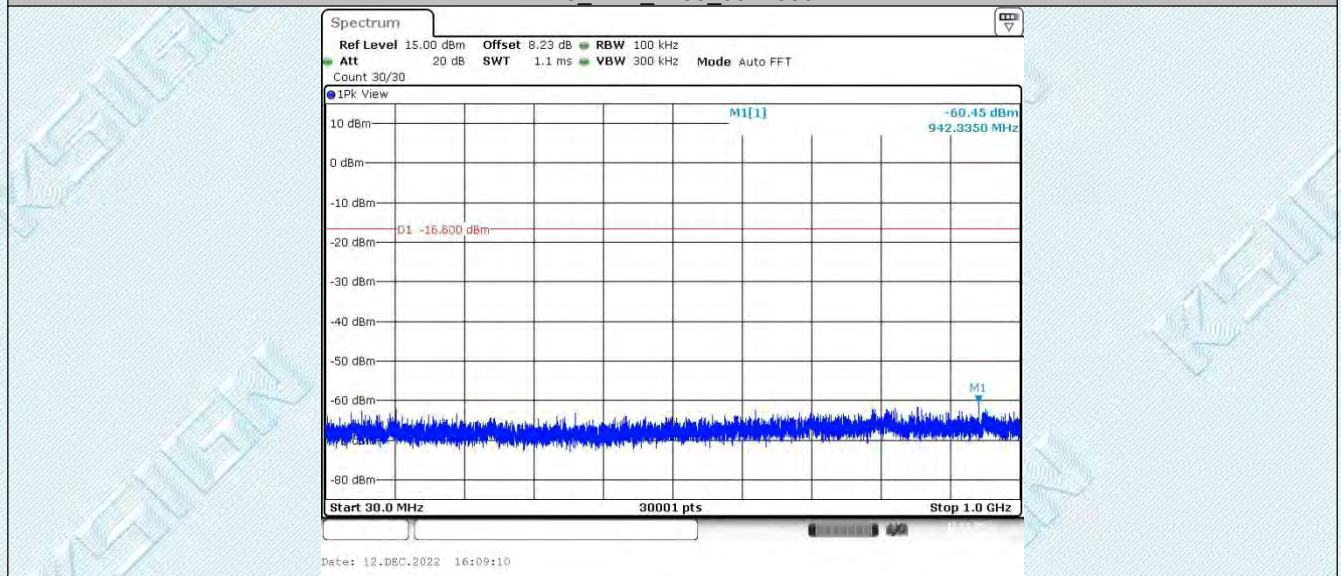
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

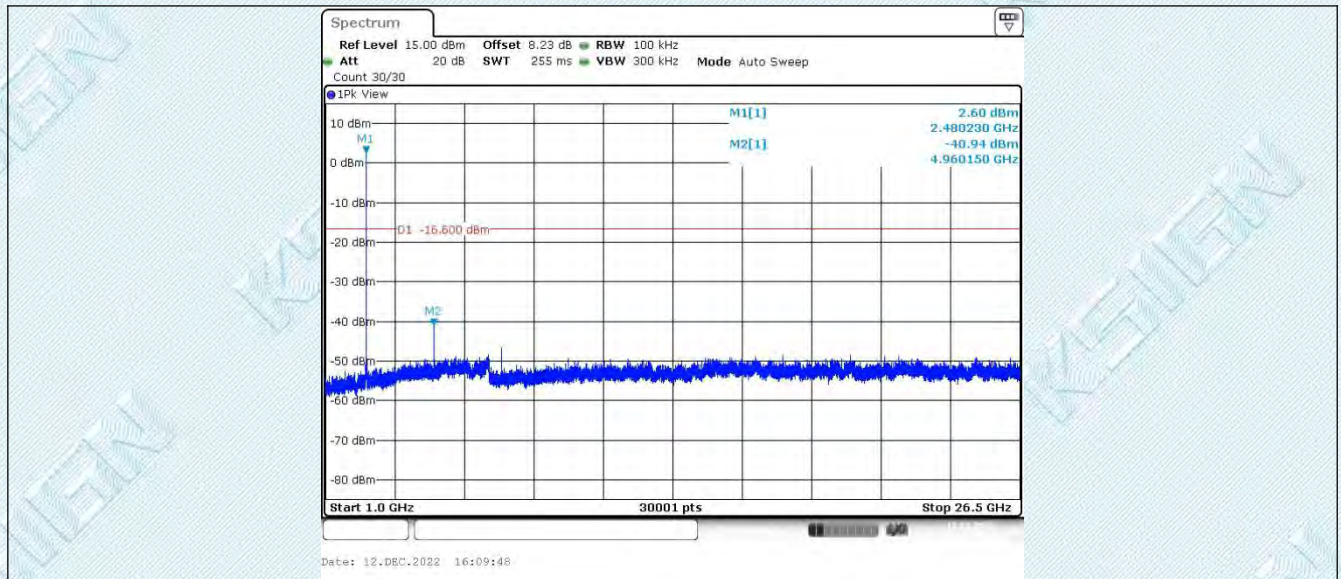


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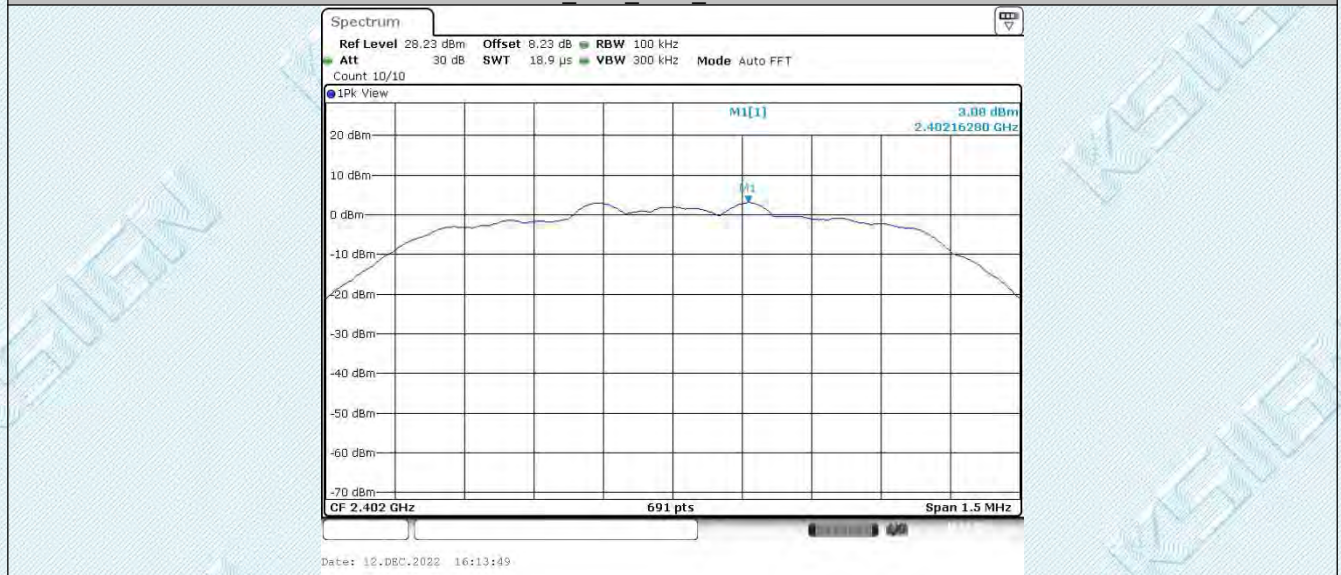
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

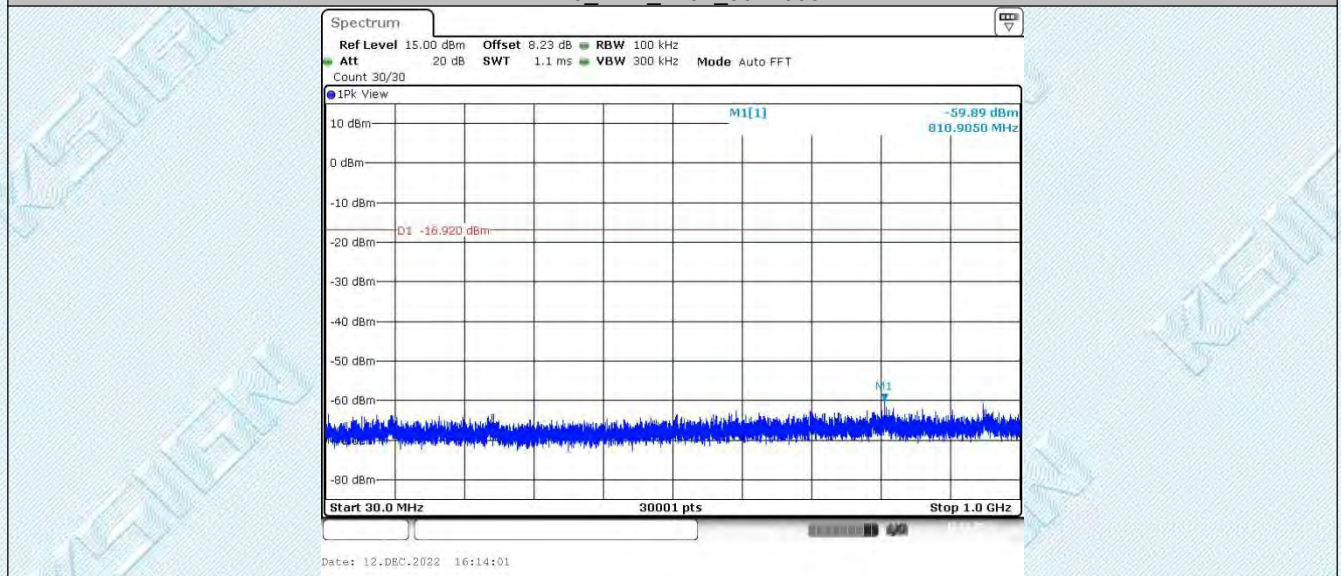
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

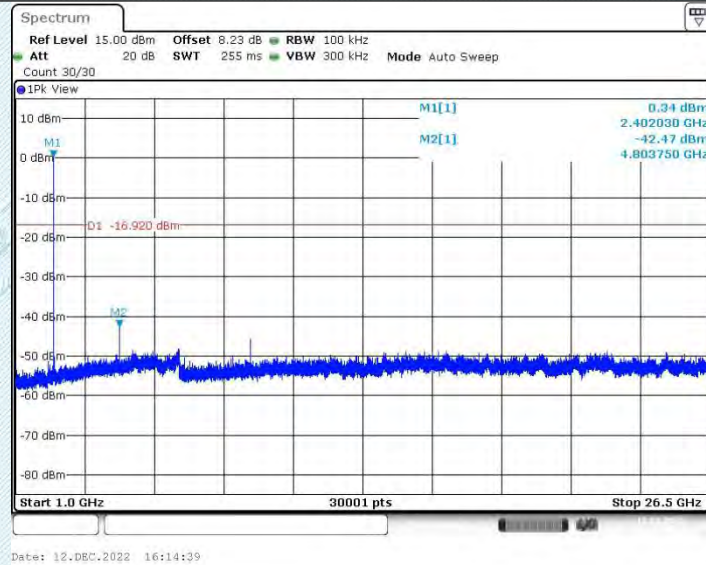


2DH5_Ant1_2402_1000~26500

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

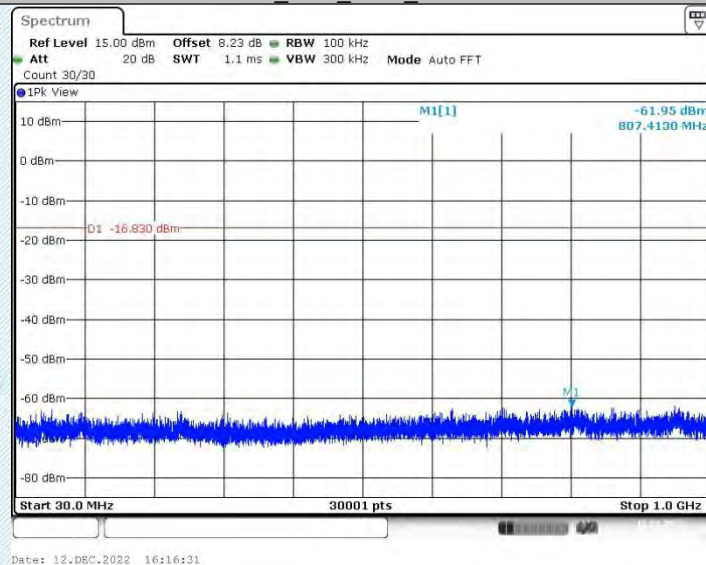
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2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

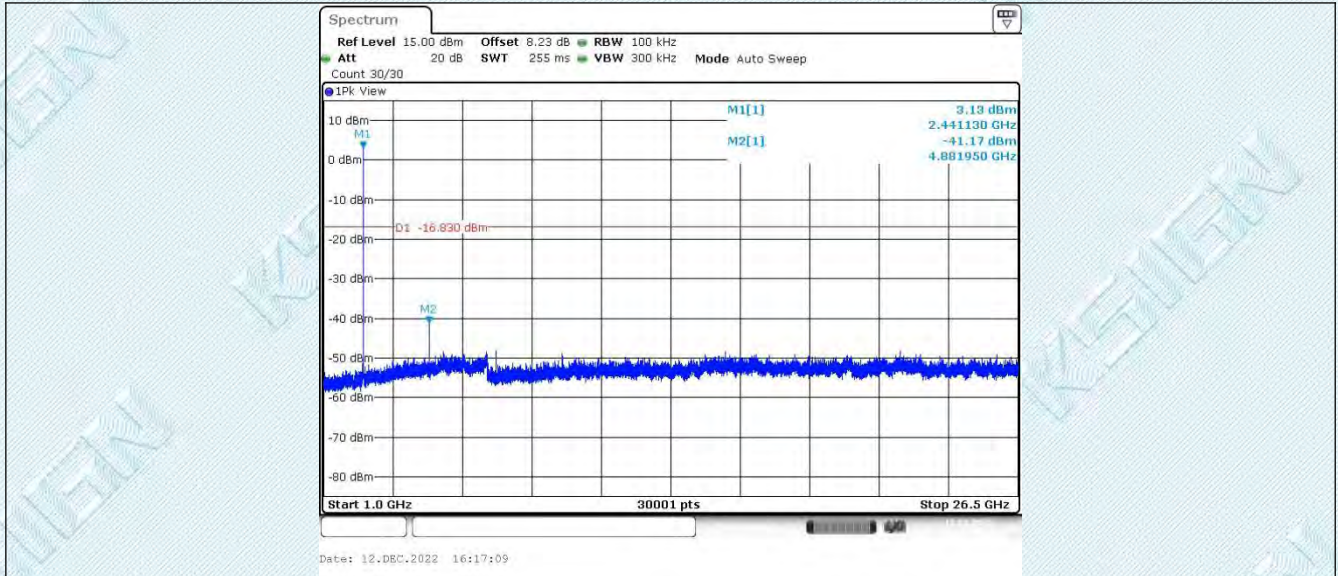


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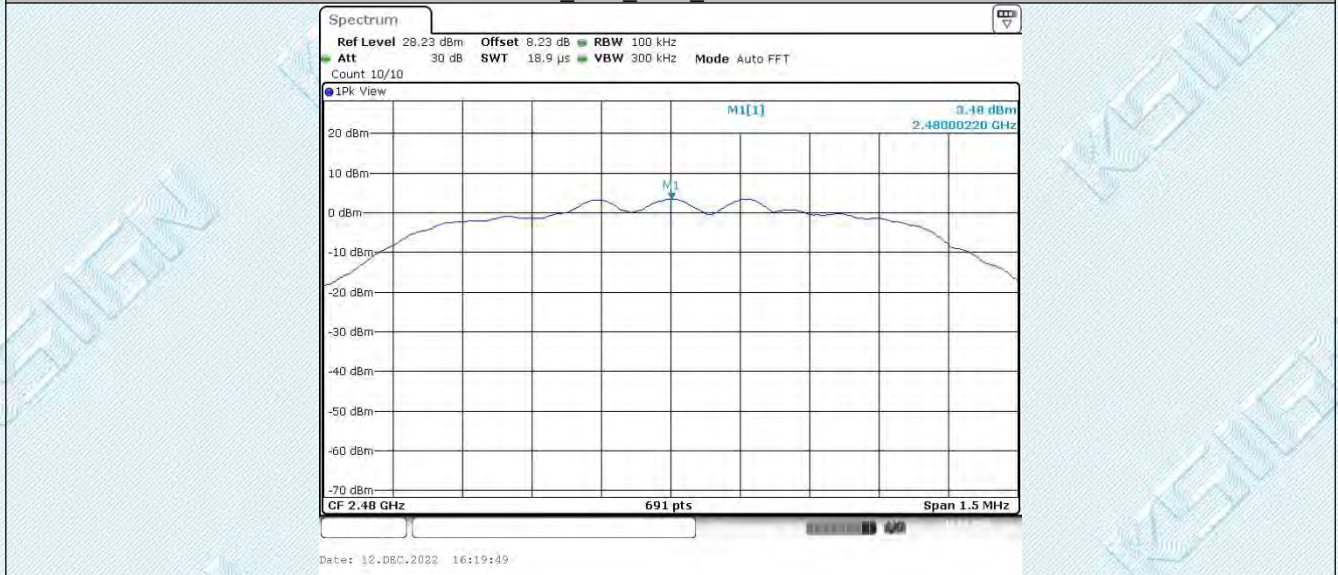
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

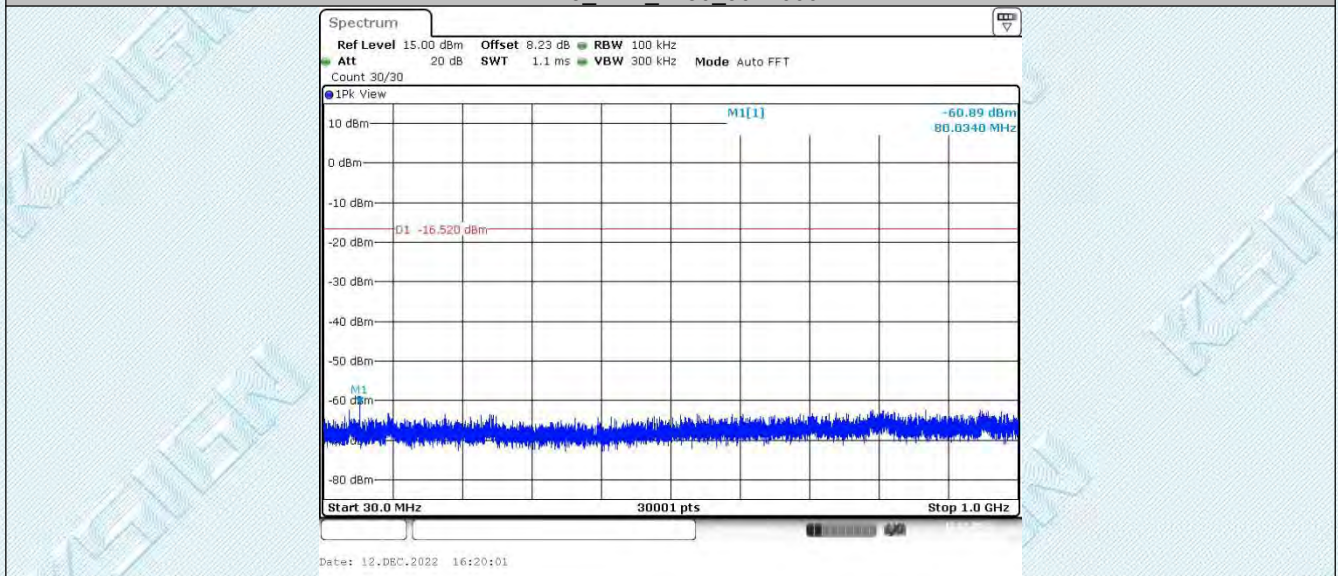
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

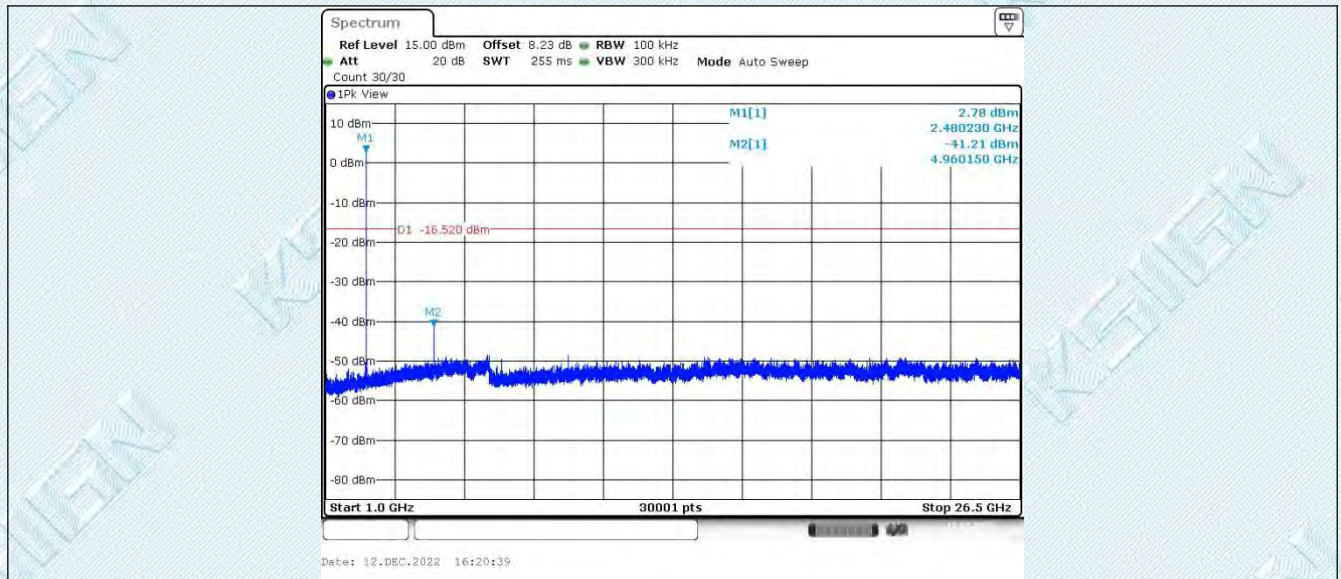


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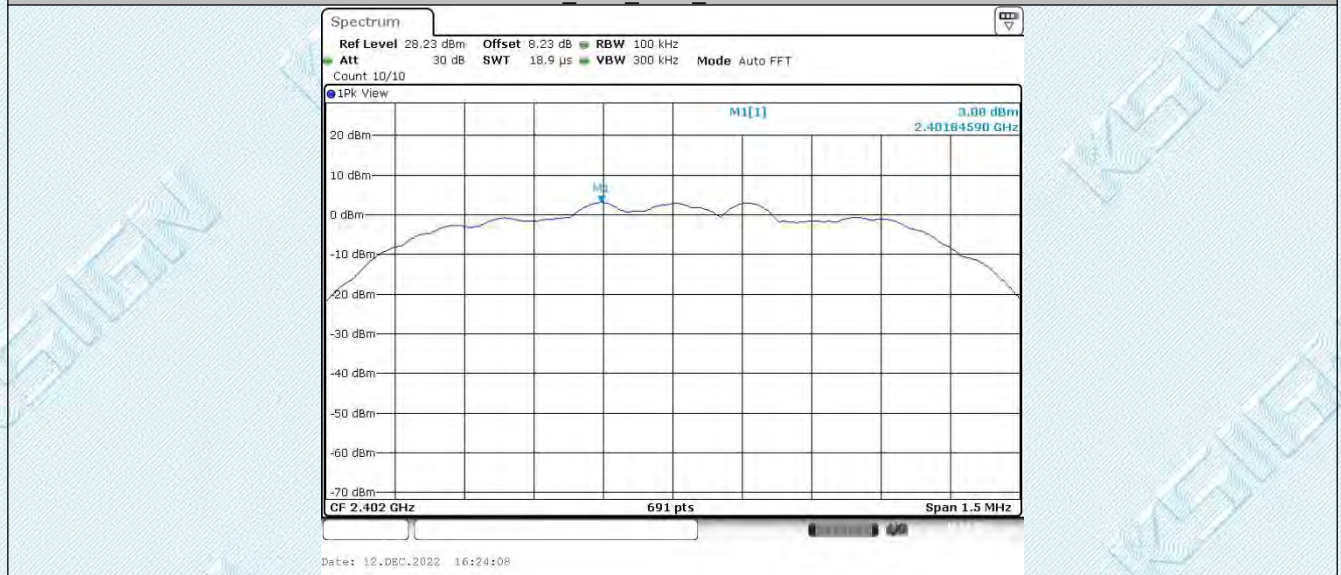
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

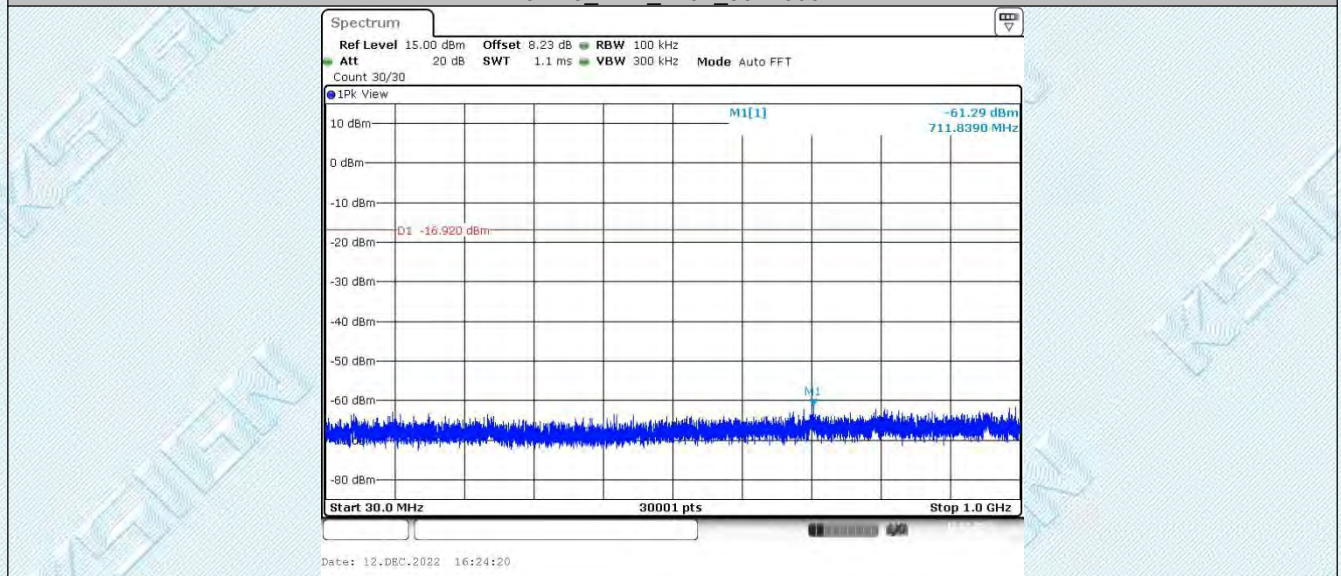
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

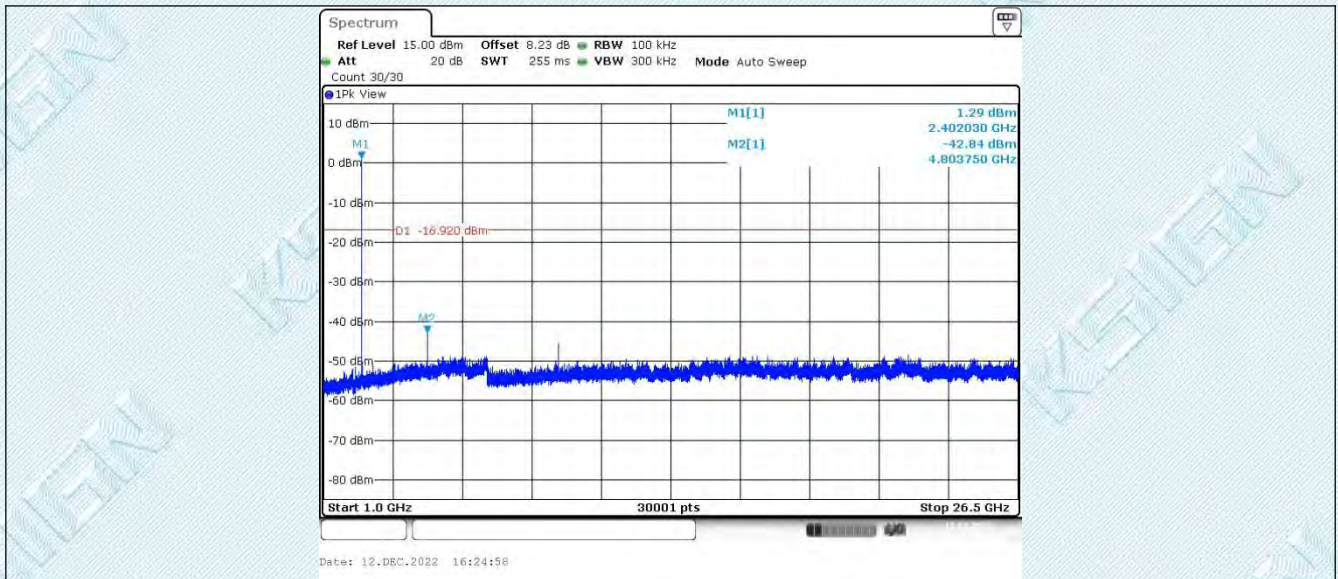


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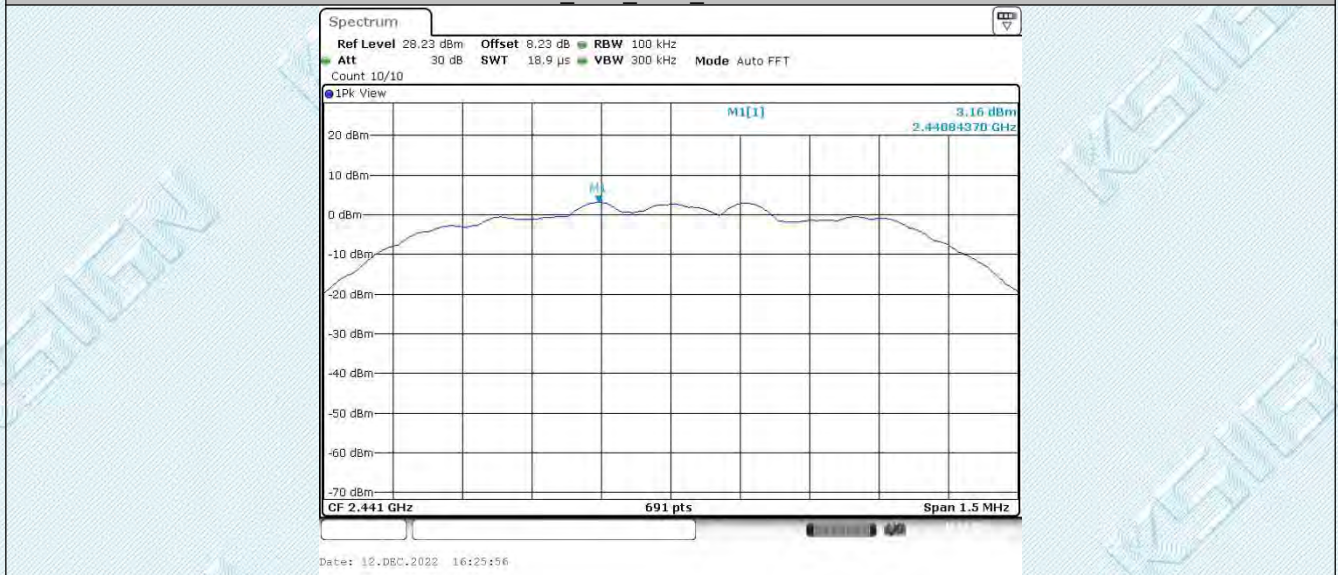
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

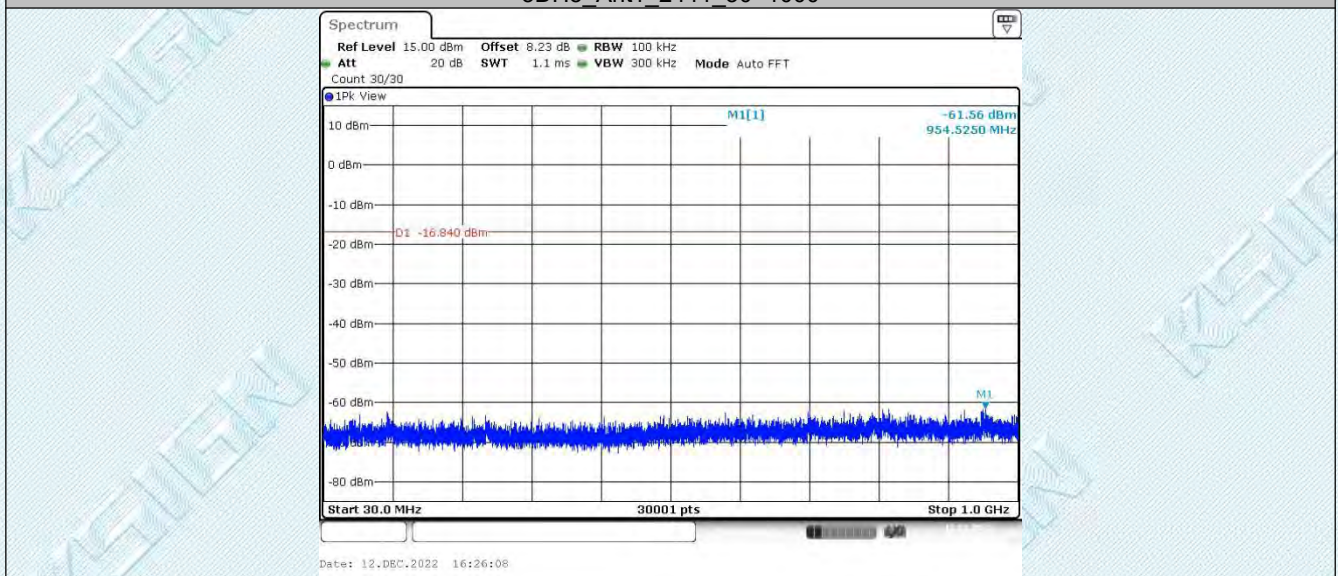
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

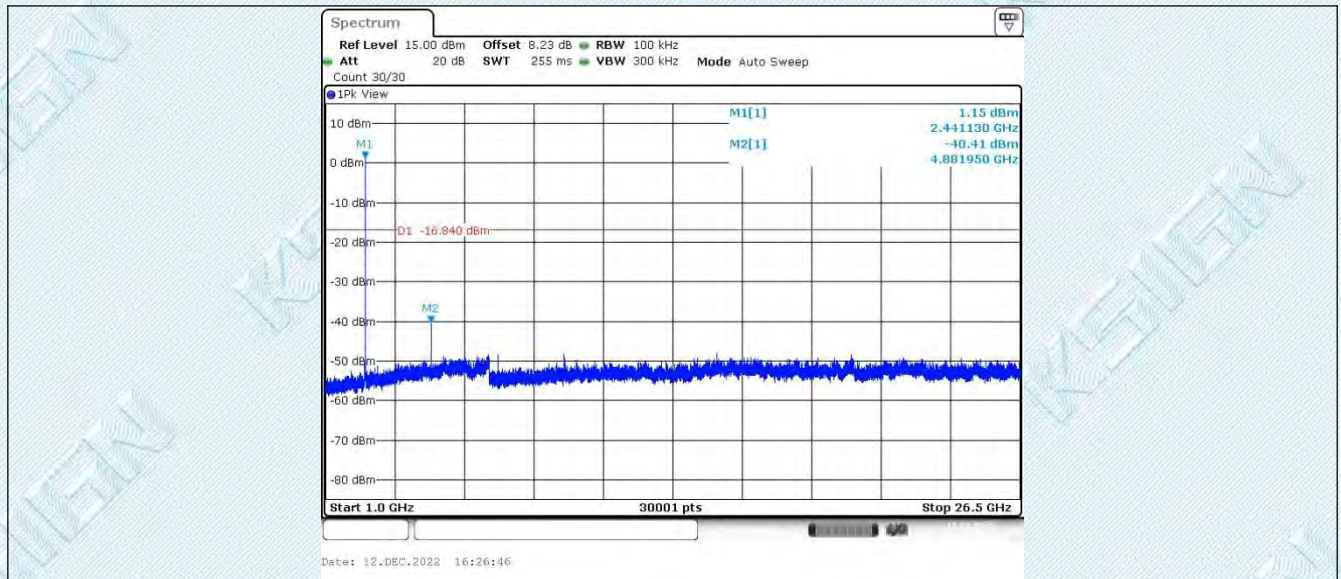


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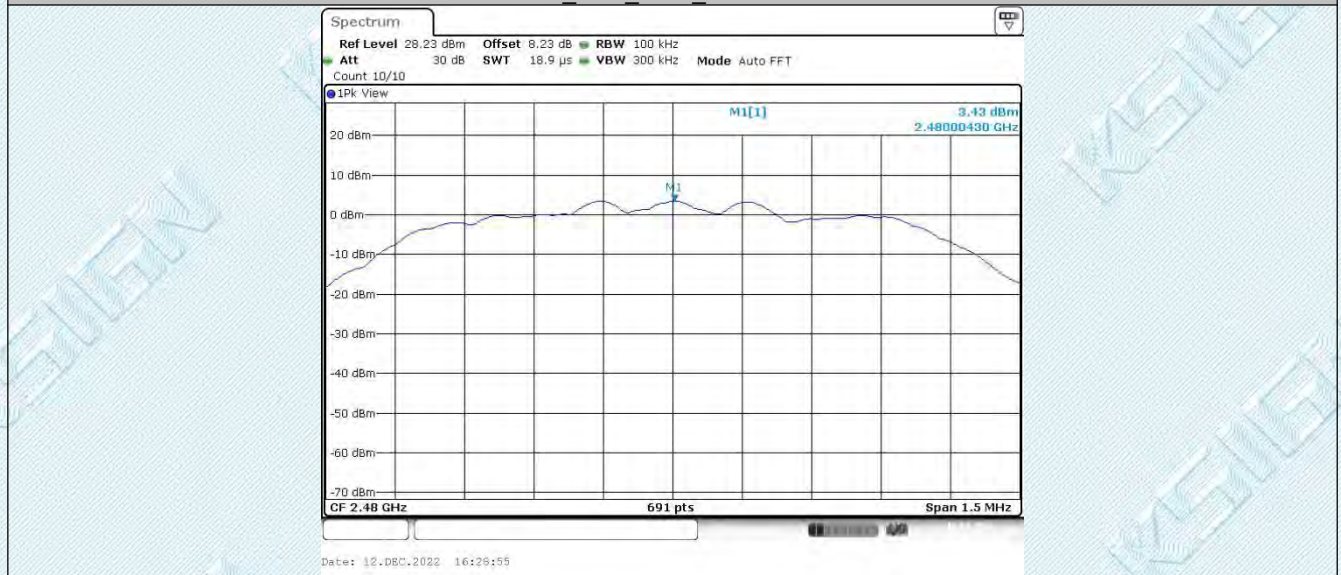
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

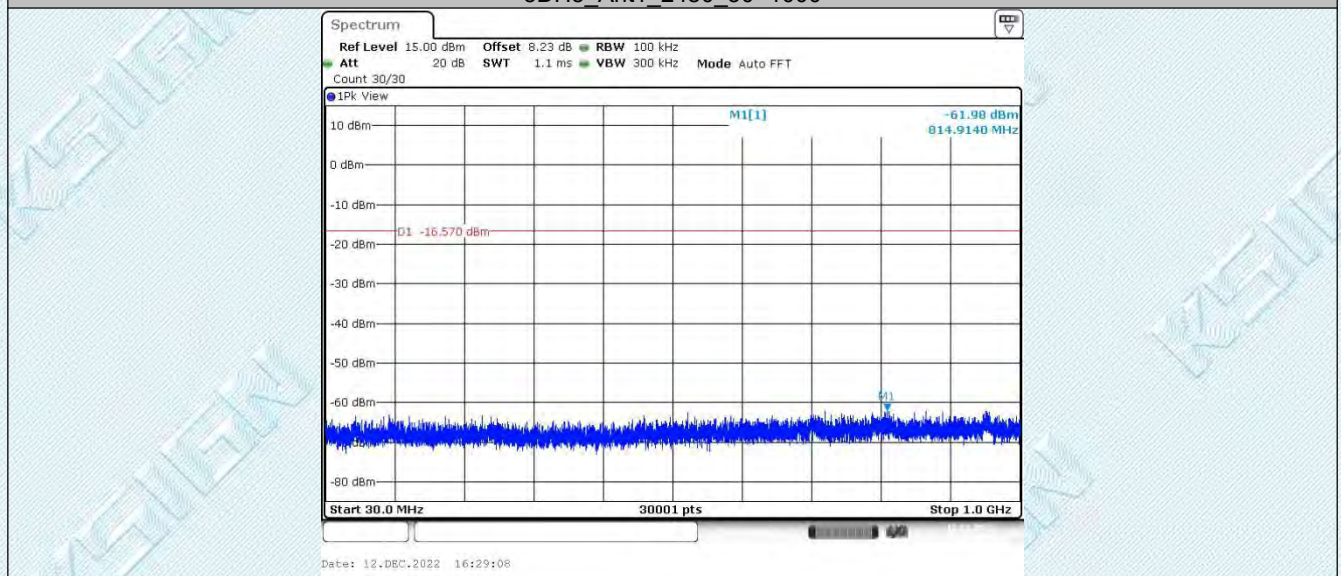
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3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000

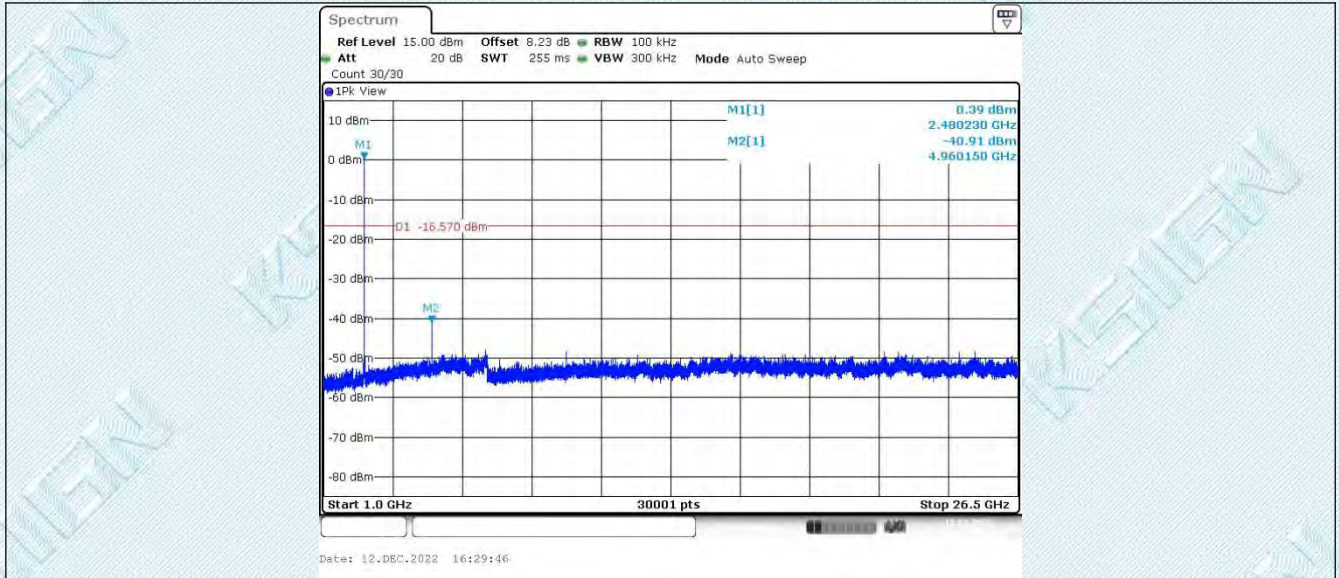


3DH5_Ant1_2480_1000~26500

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

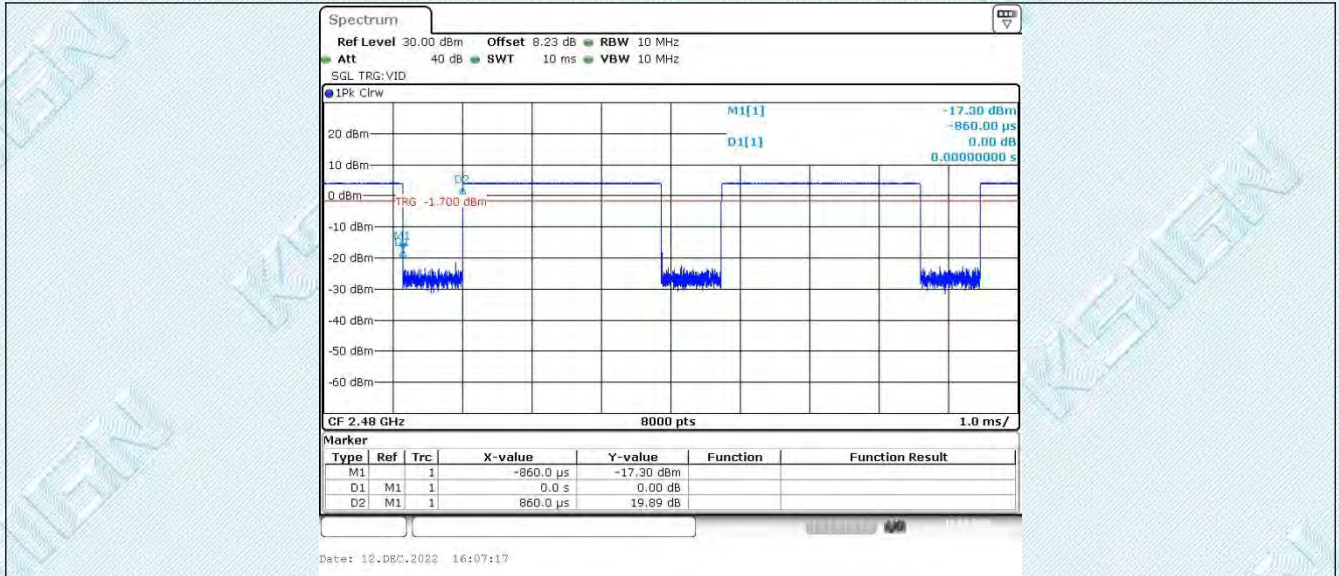
6.9. Appendix I: Duty Cycle

6.9.1. Test Result

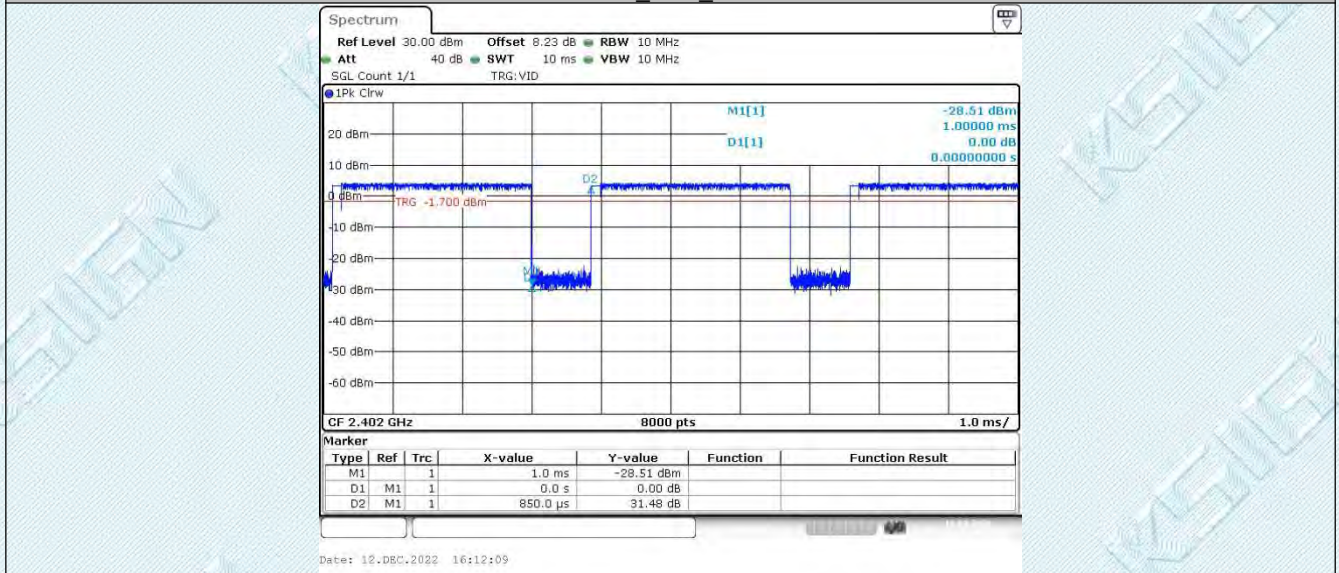
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	0.00	0.86	100	∞
		2441	0.00	0.86	100	∞
		2480	0.00	0.86	100	∞
2DH5	Ant1	2402	0.00	0.85	100	∞
		2441	0.00	0.85	100	∞
		2480	0.00	0.85	100	∞
3DH5	Ant1	2402	2.87	3.73	76.94	1.14
		2441	2.87	3.73	76.94	1.14
		2480	2.87	3.72	77.15	1.13

6.9.2. Test Graphs

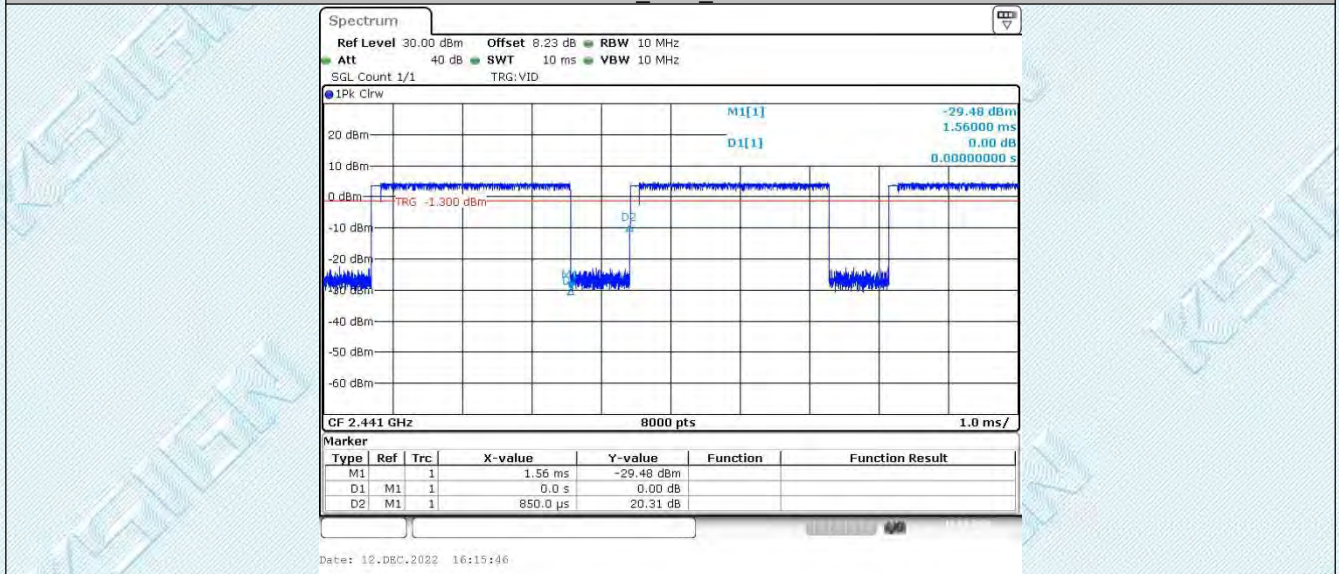




2DH5_Ant1_2402



2DH5_Ant1_2441

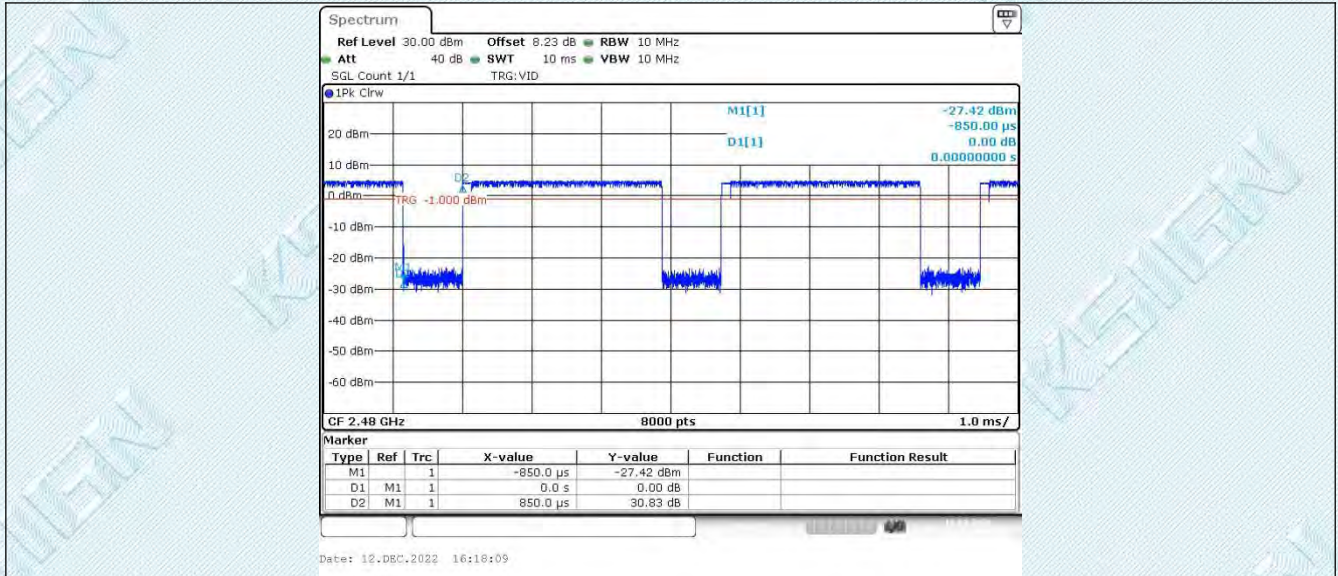


2DH5_Ant1_2480

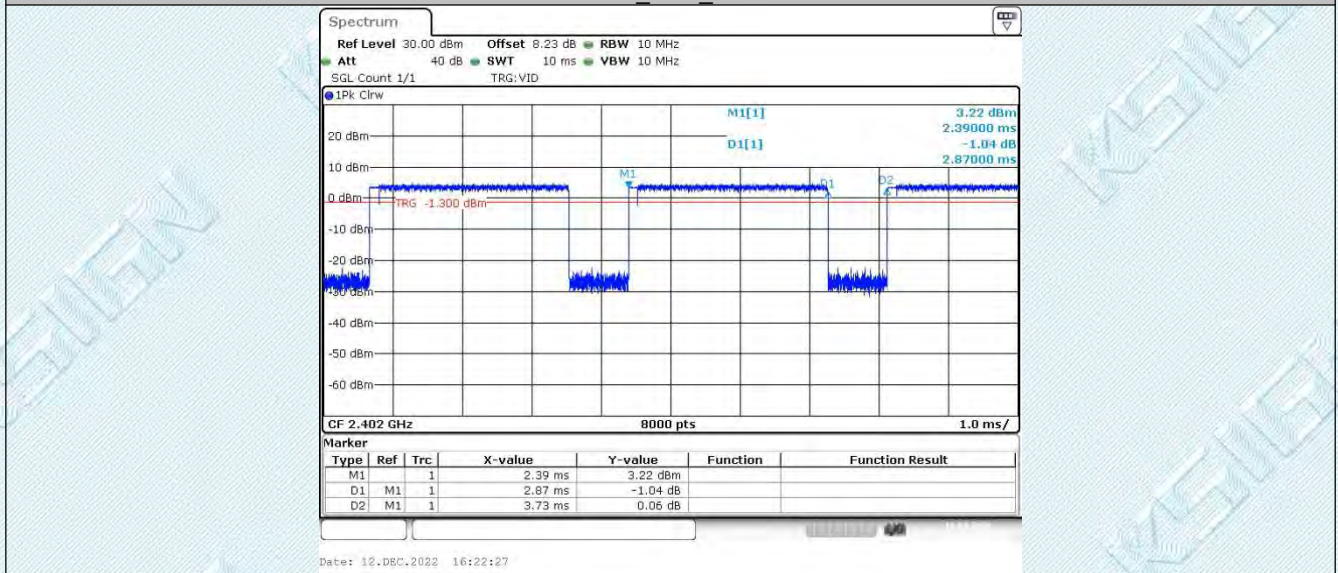
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

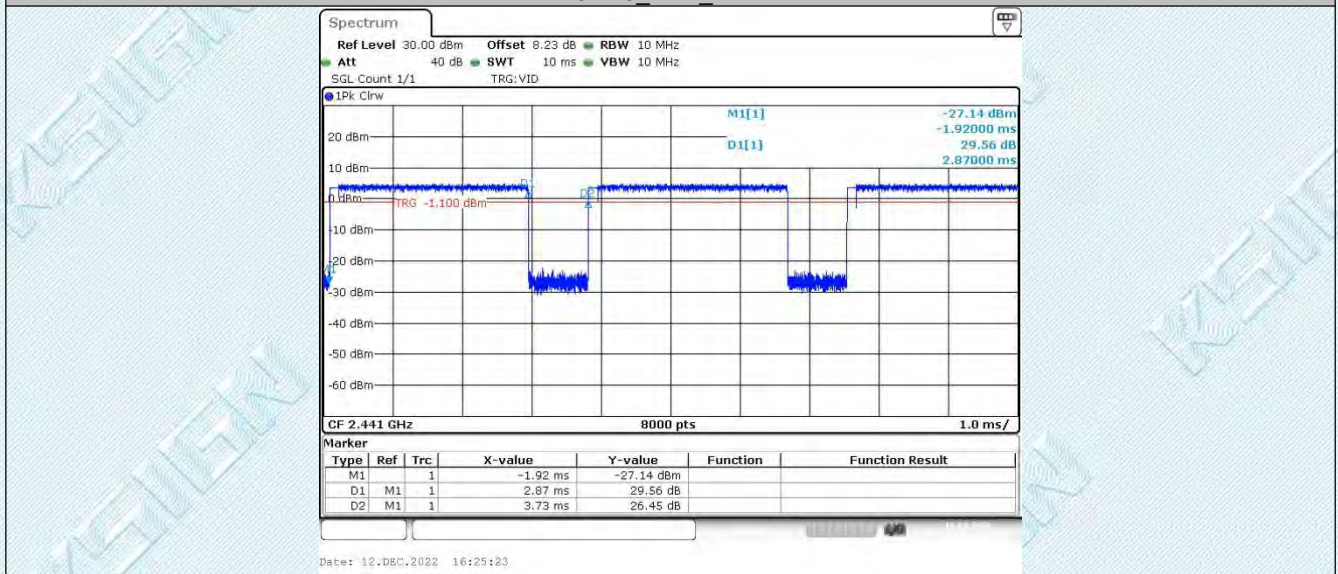
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3DH5_Ant1_2402



3DH5_Ant1_2441

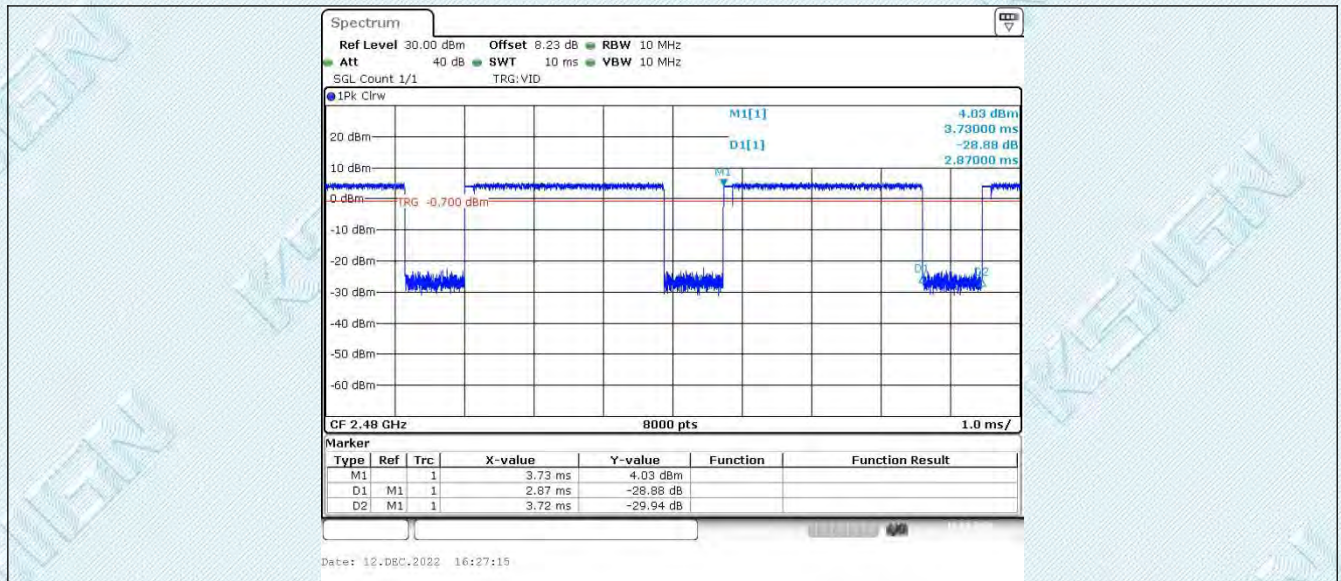


3DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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--THE END--