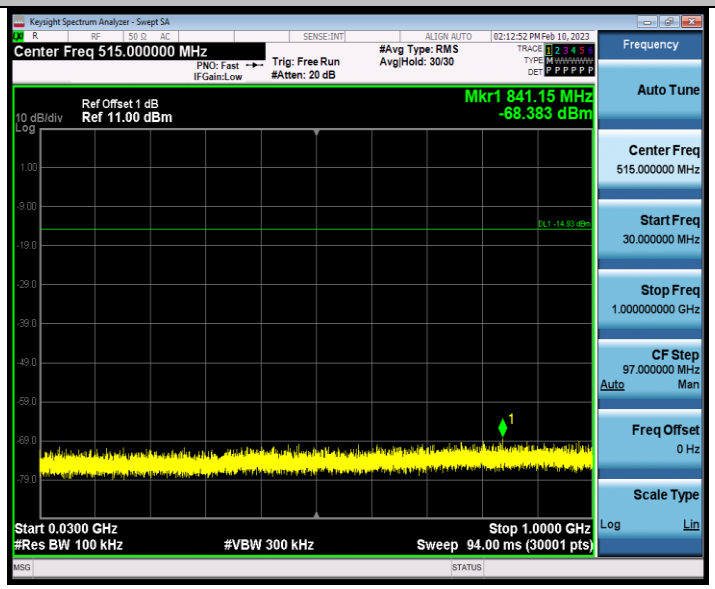
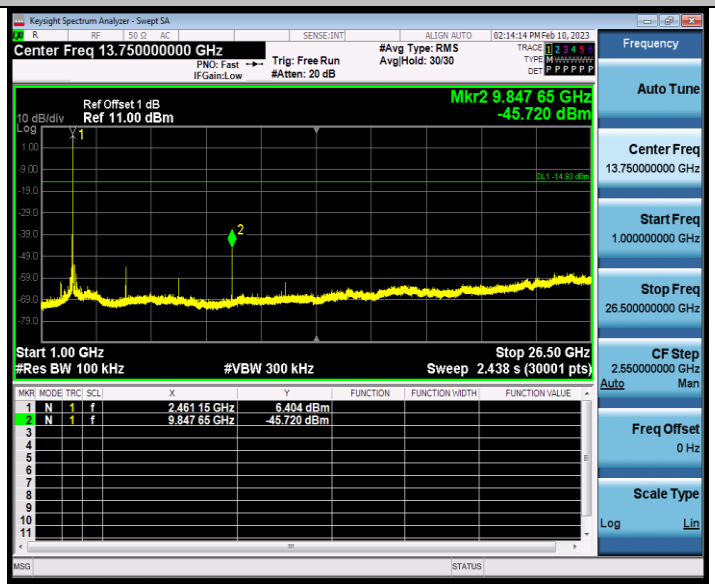
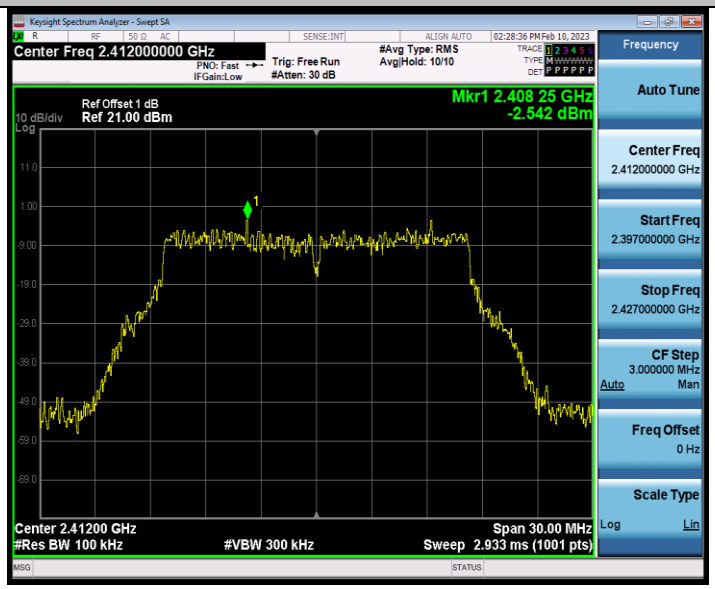
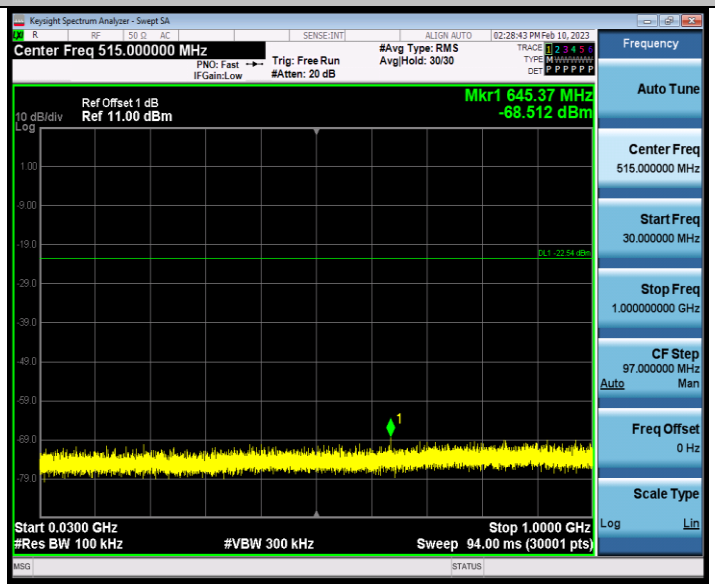
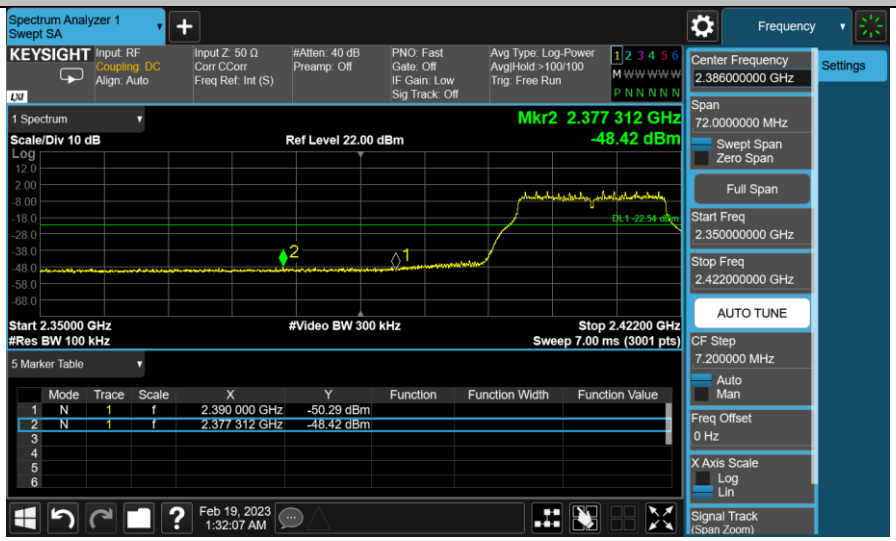
Mode1_2462_30~1000

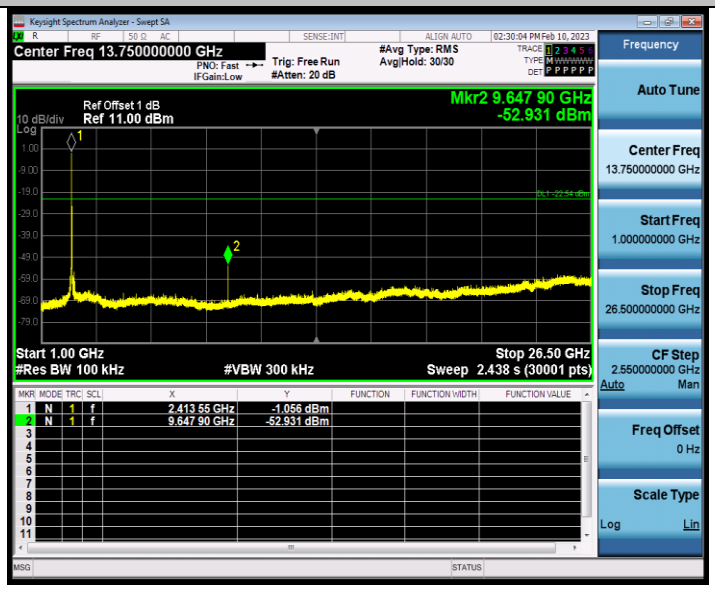


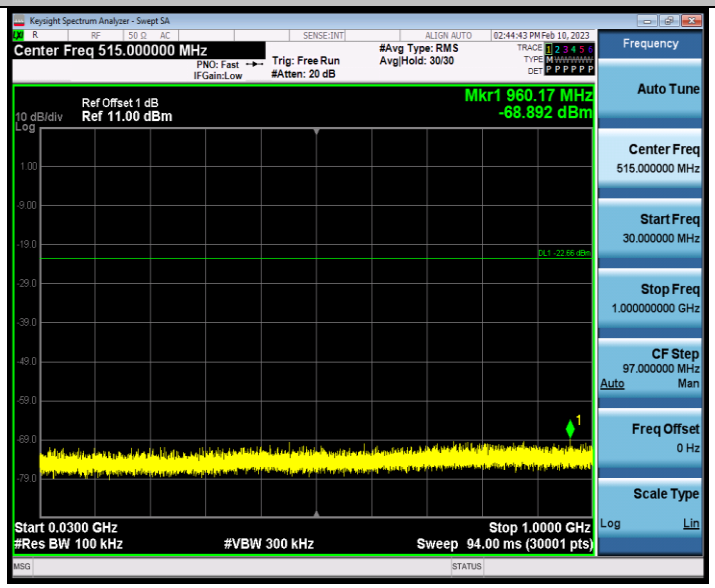
Mode1_2462_2452~2600

Mode1_2462_1000~26500



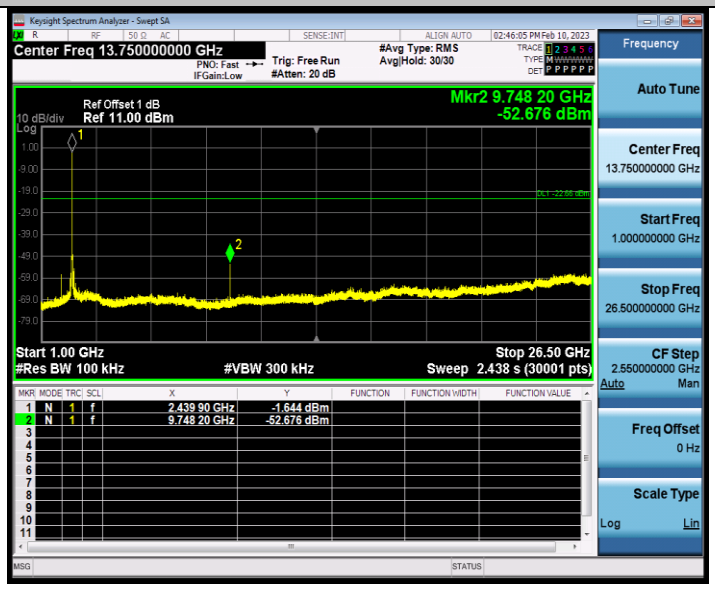
Mode2_2412_0~Reference

Mode2_2412_30~1000

Mode2_2412_2350~2422


Mode2_2412_1000~26500

Mode2_2437_0~Reference

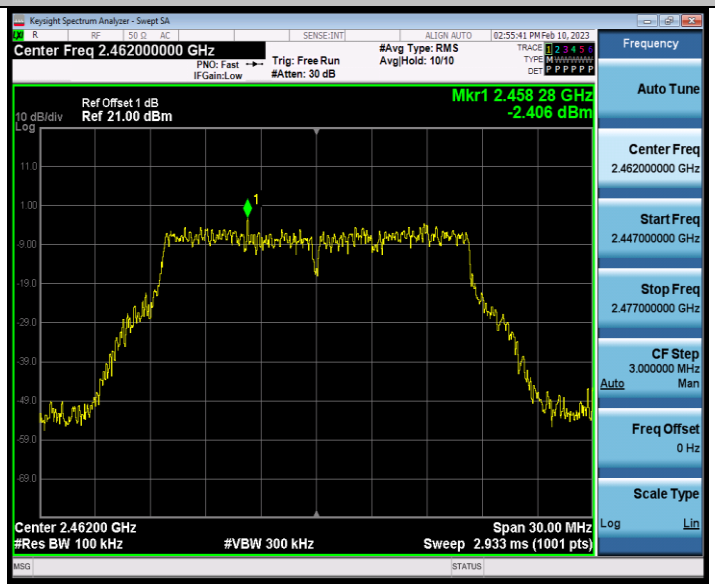
Mode2_2437_30~1000


Mode2_2437_2452~2600

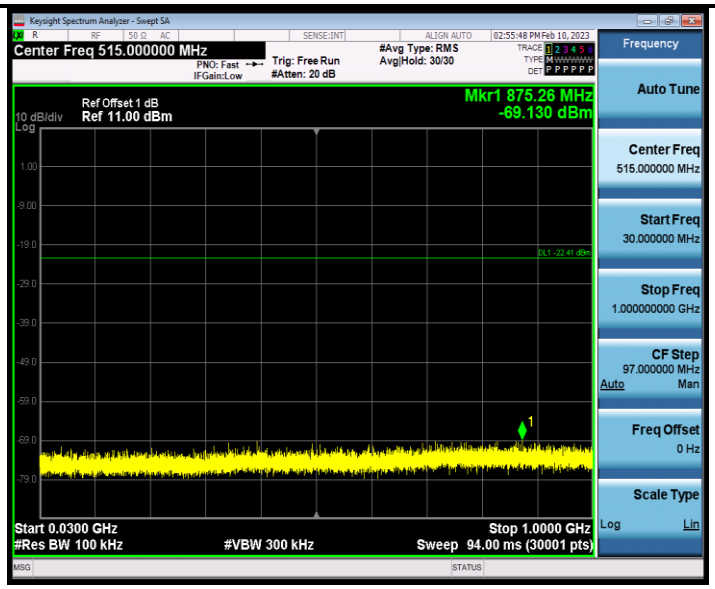
Mode2_2437_1000~26500



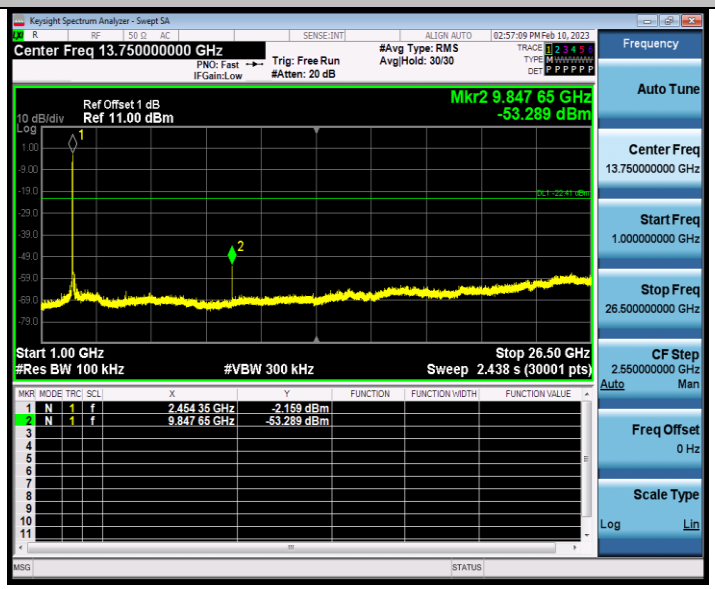
Mode2_2462_0~Reference



Mode2_2462_30~1000

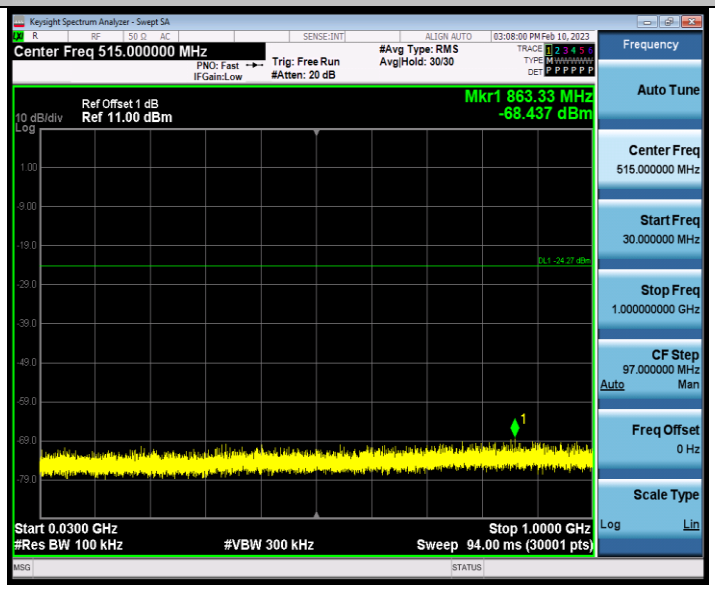


Mode2_2462_1000~26500

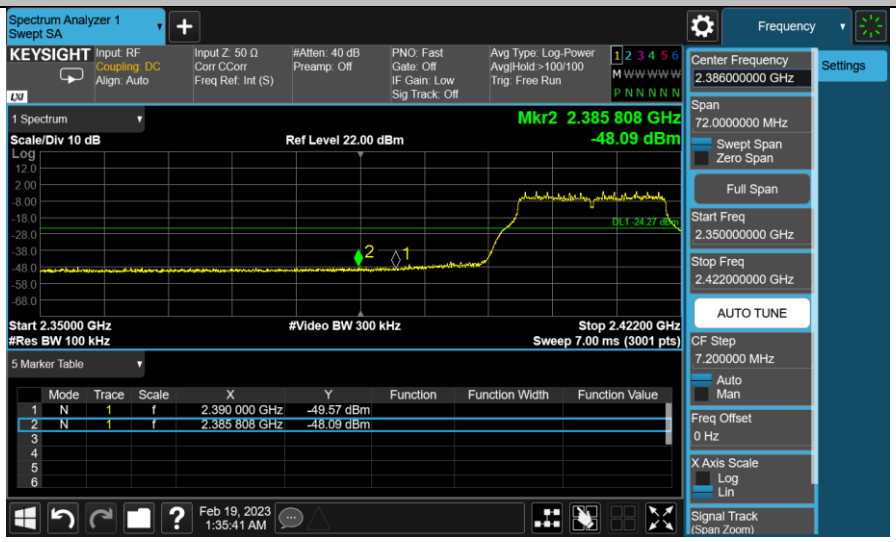


Mode3_2412_0~Reference

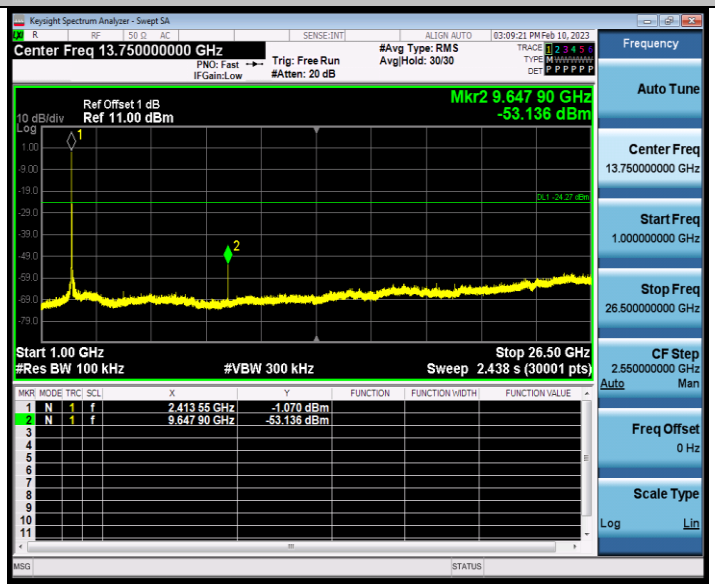
Mode3_2412_30~1000

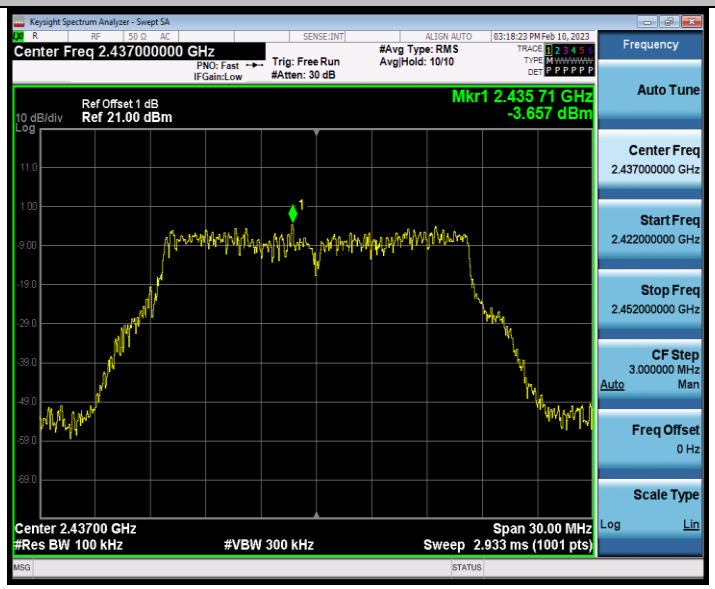
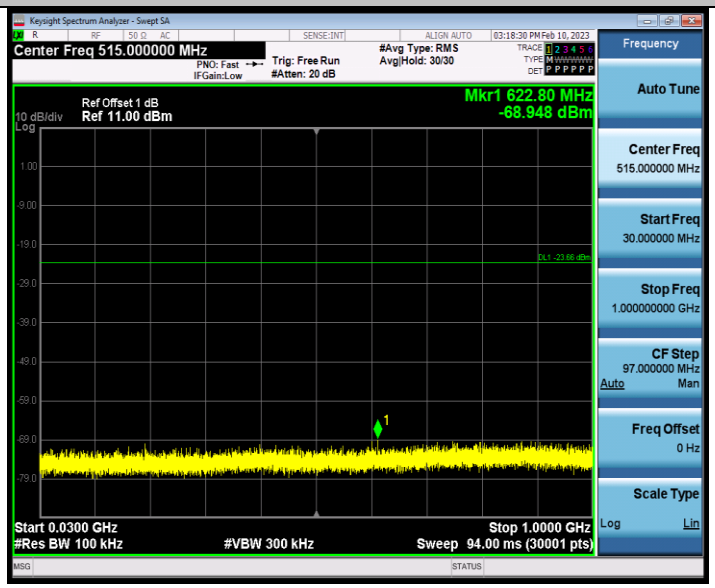
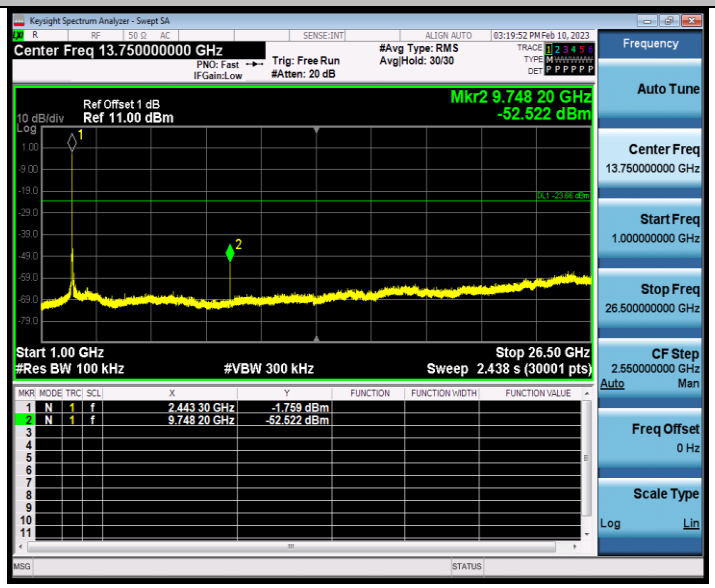


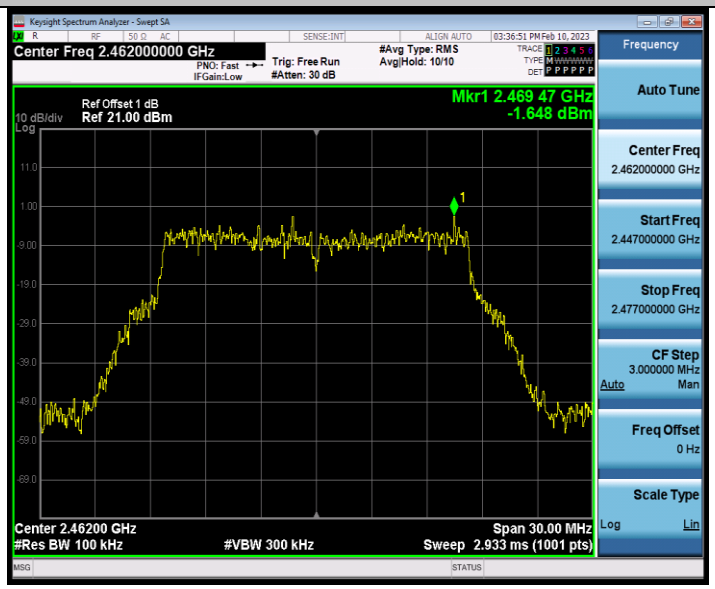
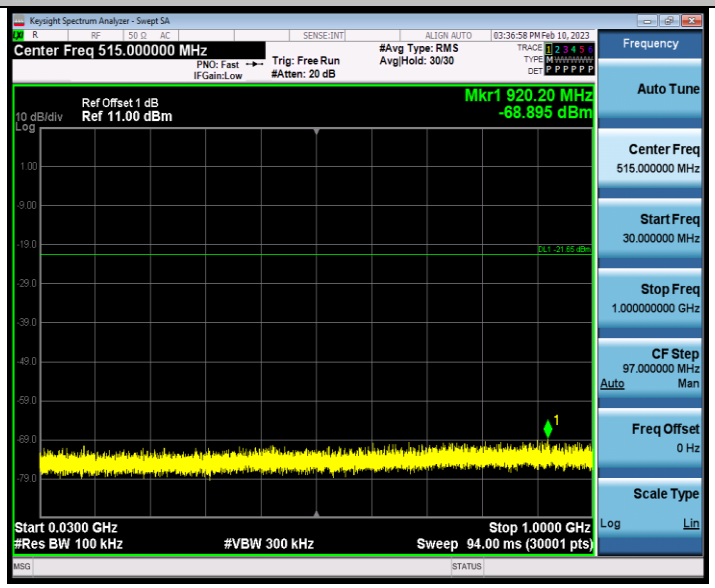
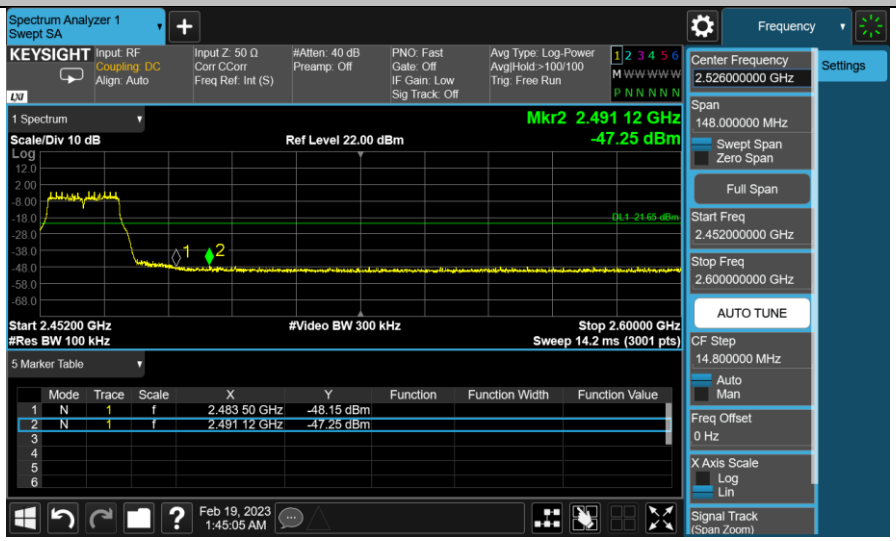
Mode3_2412_2350~2422

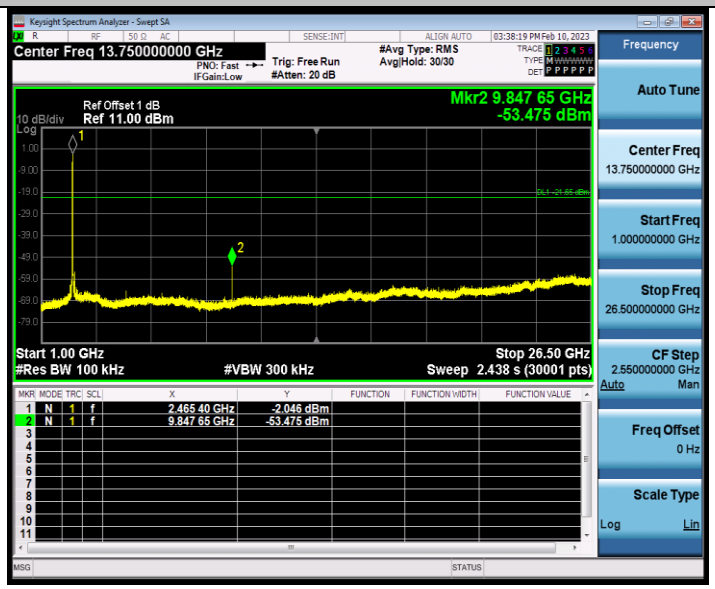


Mode3_2412_1000~26500



Mode3_2437_0~Reference

Mode3_2437_30~1000

Mode3_2437_1000~26500


Mode3_2462_0~Reference

Mode3_2462_30~1000

Mode3_2462_2452~2600


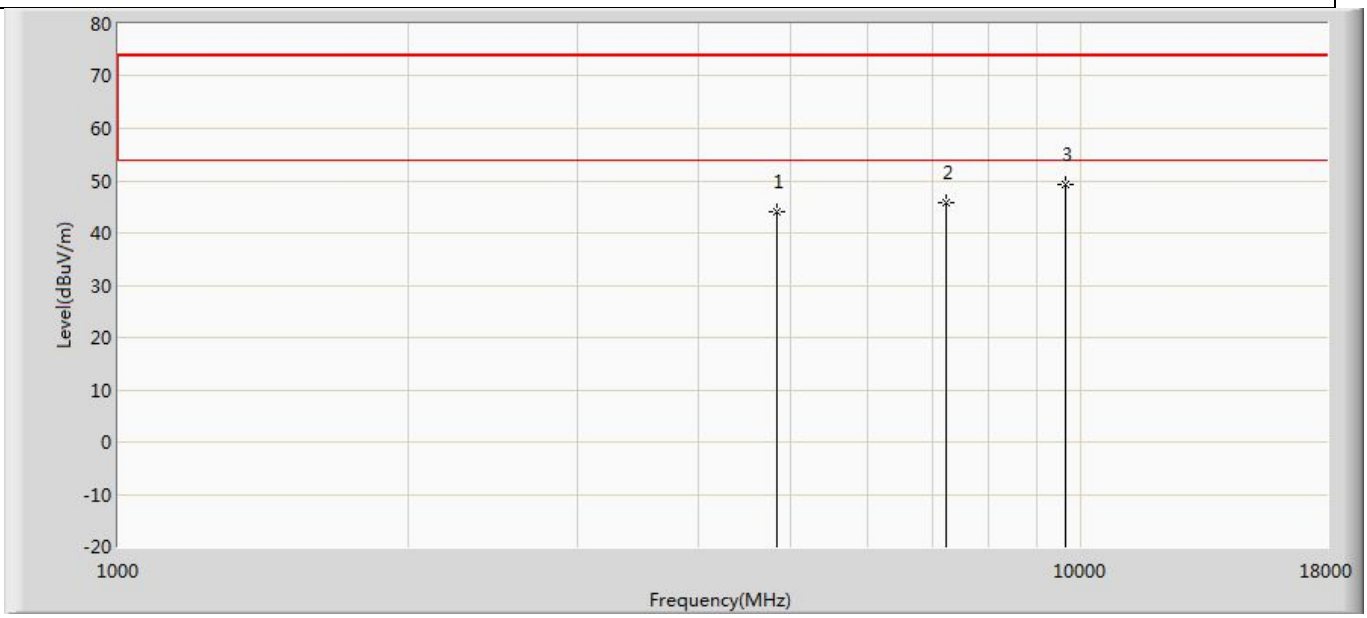
Mode3_2462_1000~26500


Appendix G: Duty Cycle
Test Result

TestMode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
Mode1	2412	8.61	8.71	98.85	0.05
	2437	8.61	8.70	98.97	0.04
	2462	8.61	8.70	98.97	0.04
Mode2	2412	1.43	1.54	92.86	0.32
	2437	1.42	1.53	92.81	0.32
	2462	1.43	1.54	92.86	0.32
Mode3	2412	1.42	1.53	92.81	0.32
	2437	1.43	1.54	92.86	0.32
	2462	1.43	1.53	93.46	0.29

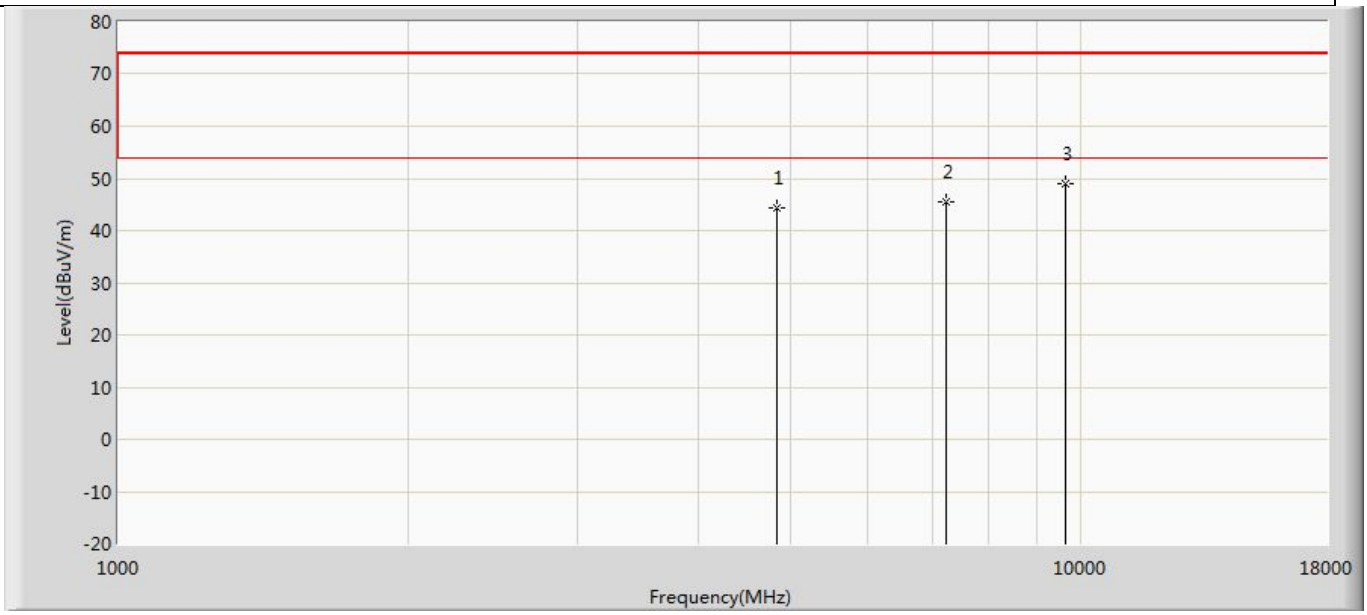
Appendix H: Emissions in Restricted Bands
Test Result

Profile: 2320056R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 1：Transmit at 2412MHz by 802.11b	



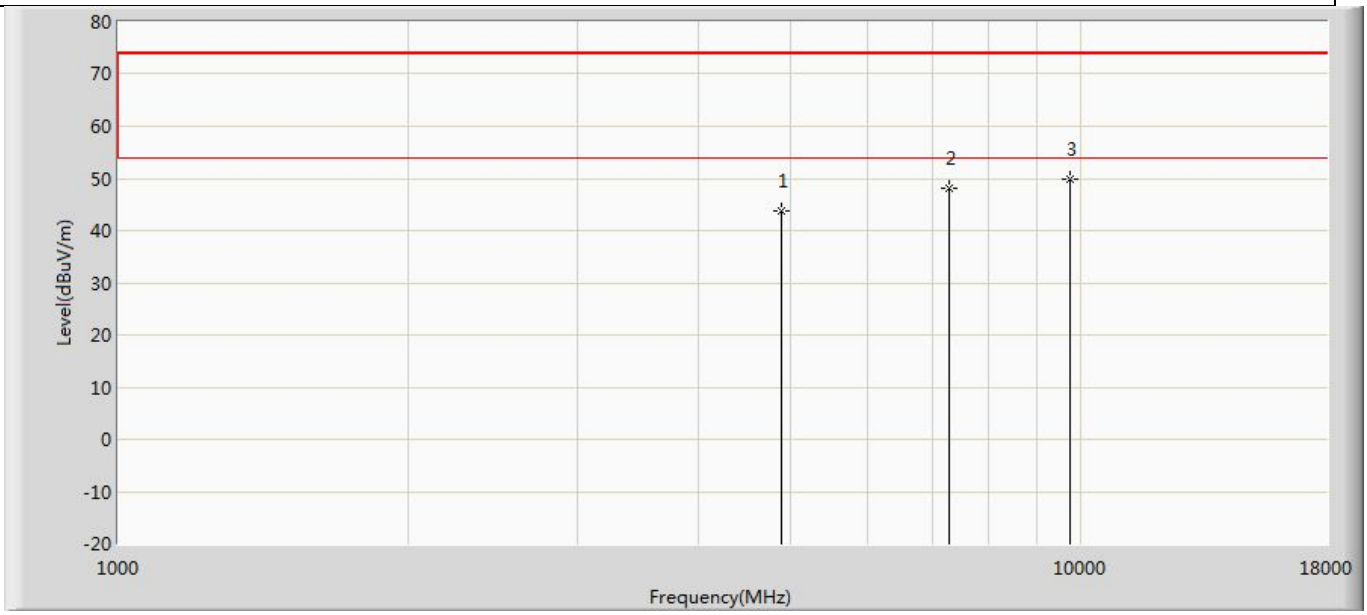
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4825.000	44.042	58.687	-29.958	74.000	-14.646	PK
2		7236.000	45.894	55.652	-28.106	74.000	-9.758	PK
3	*	9648.000	49.199	54.612	-24.801	74.000	-5.413	PK

Profile: 2320056R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 1：Transmit at 2412MHz by 802.11b	



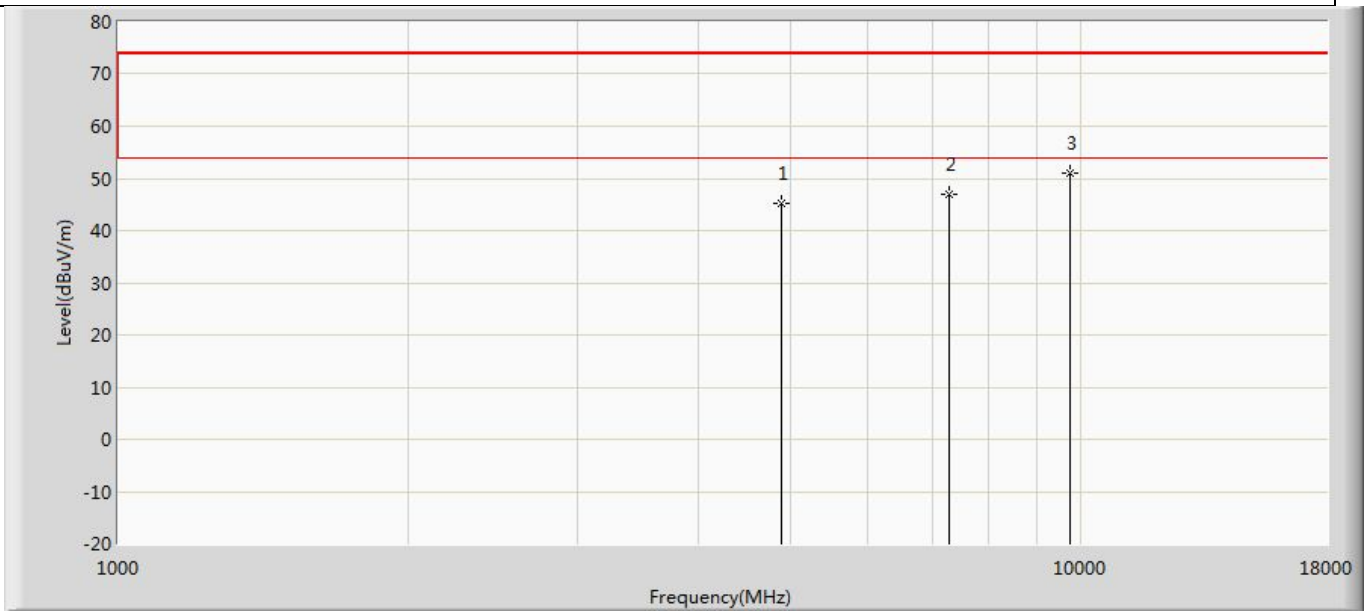
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4825.000	44.326	58.971	-29.674	74.000	-14.646	PK
2		7236.000	45.639	55.397	-28.361	74.000	-9.758	PK
3	*	9648.000	48.974	54.387	-25.026	74.000	-5.413	PK

Profile: 2320056R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 1：Transmit at 2437MHz by 802.11b	



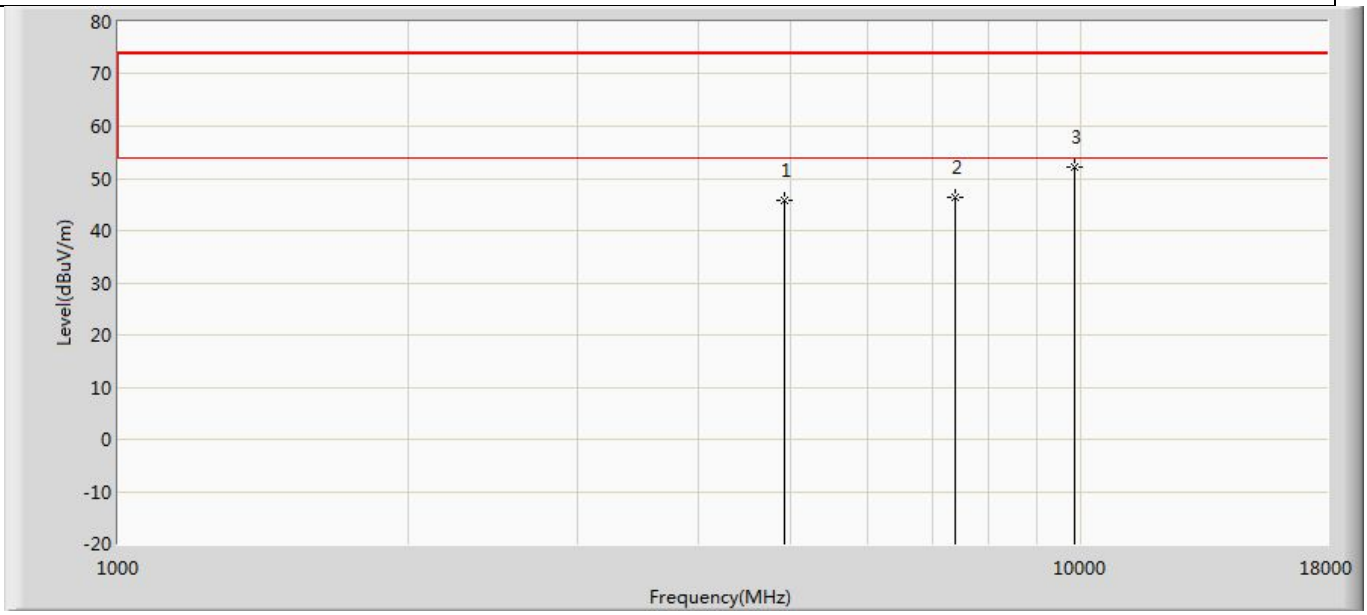
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	43.857	58.154	-30.143	74.000	-14.297	PK
2		7307.000	47.993	57.748	-26.007	74.000	-9.754	PK
3	*	9748.000	49.790	55.281	-24.210	74.000	-5.491	PK

Profile: 2320056R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 1：Transmit at 2437MHz by 802.11b	



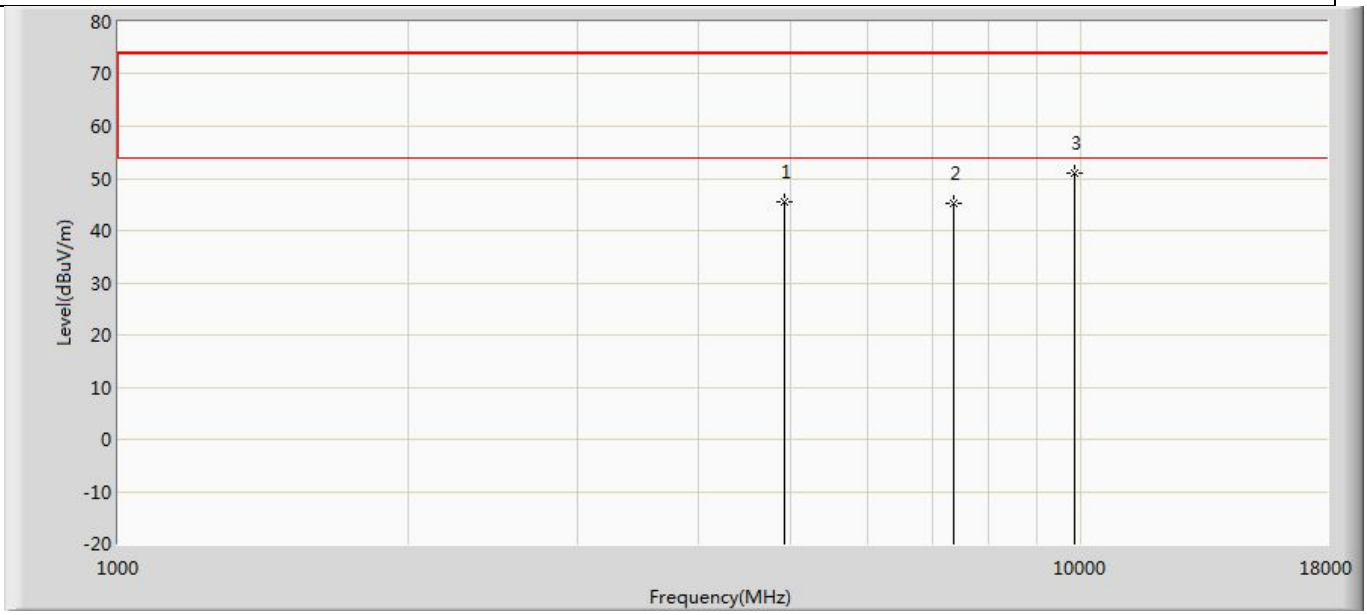
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	45.234	59.531	-28.766	74.000	-14.297	PK
2		7307.000	47.017	56.772	-26.983	74.000	-9.754	PK
3	*	9755.000	51.131	56.595	-22.869	74.000	-5.465	PK

Profile: 2320056R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 1：Transmit at 2462MHz by 802.11b	



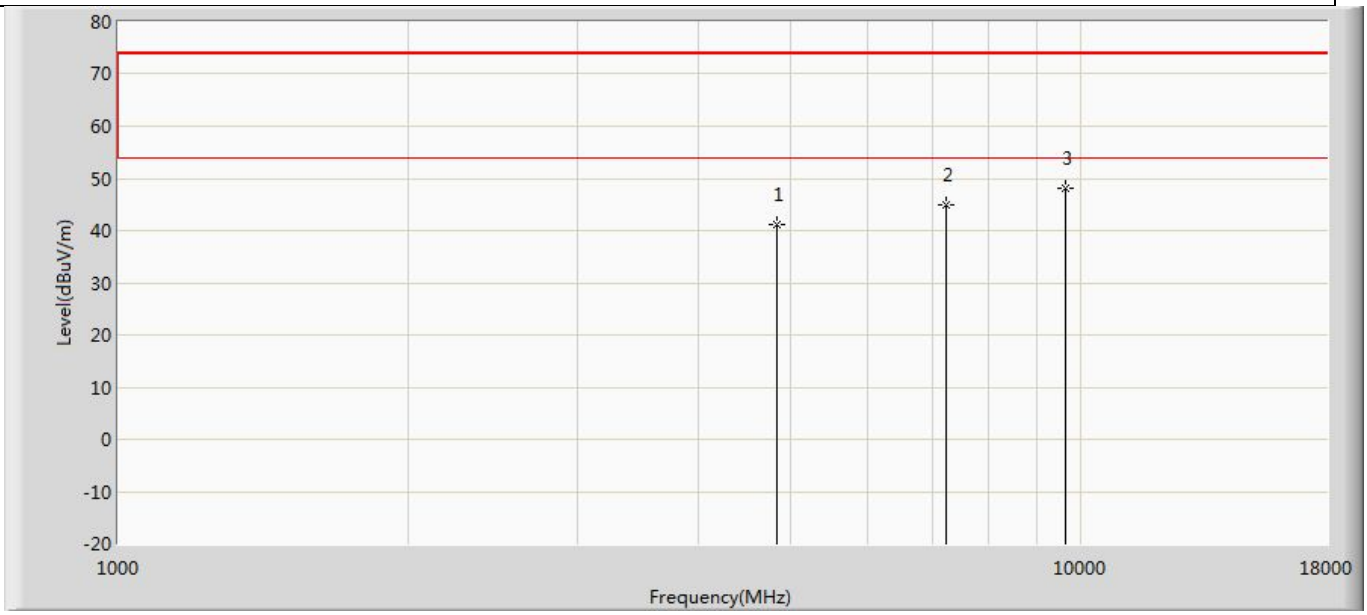
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	45.880	60.393	-28.120	74.000	-14.514	PK
2		7392.000	46.247	55.984	-27.753	74.000	-9.736	PK
3	*	9840.000	52.168	57.417	-21.832	74.000	-5.249	PK

Profile: 2320056R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 1：Transmit at 2462MHz by 802.11b	



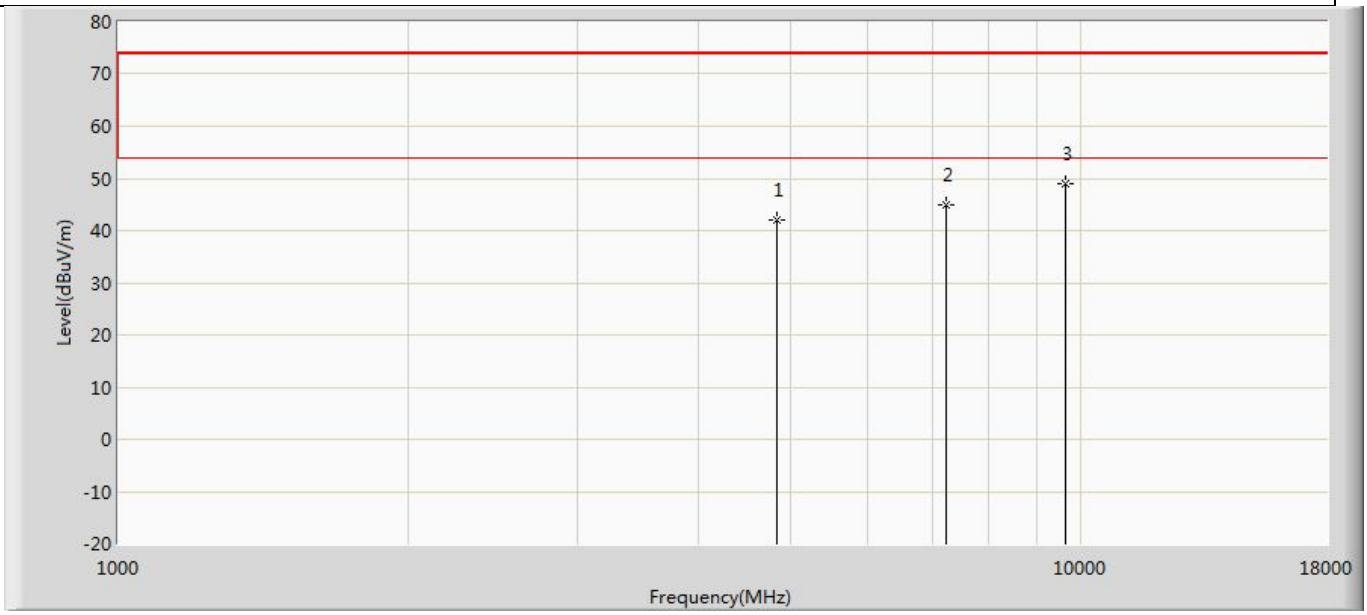
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	45.408	59.921	-28.592	74.000	-14.514	PK
2		7386.000	45.148	54.955	-28.852	74.000	-9.808	PK
3	*	9840.000	51.050	56.299	-22.950	74.000	-5.249	PK

Profile: 2320056R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 2：Transmit at 2412MHz by 802.11g	



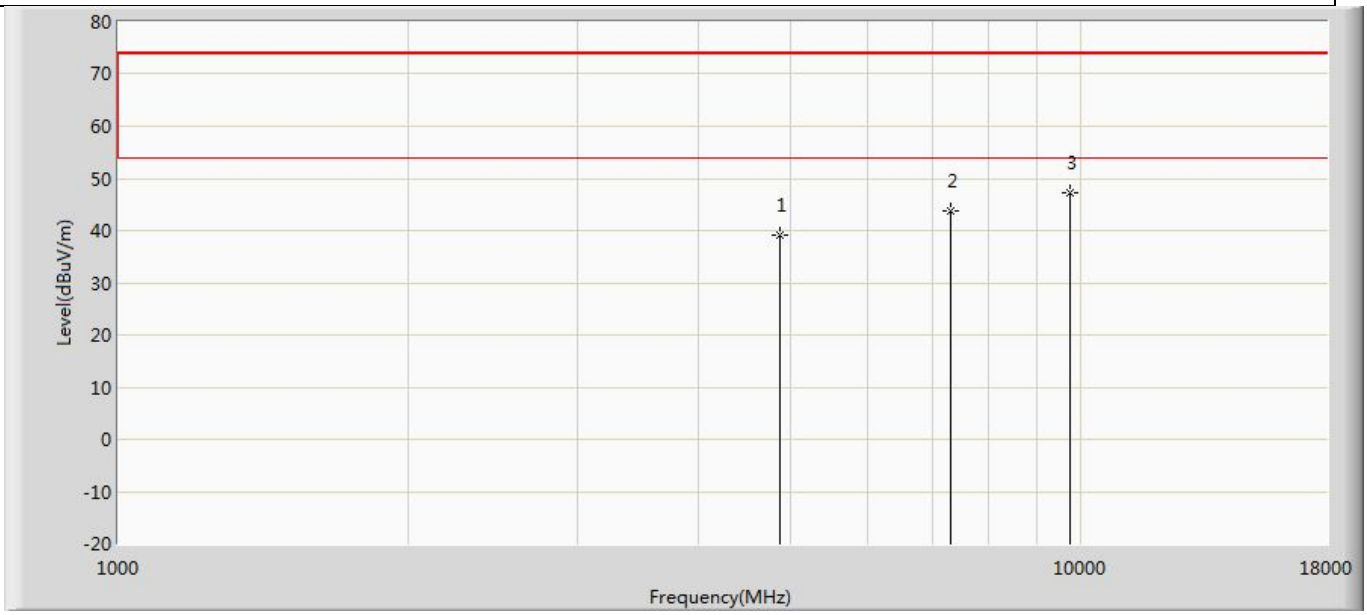
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.078	55.723	-32.922	74.000	-14.646	PK
2		7236.000	44.874	54.632	-29.126	74.000	-9.758	PK
3	*	9648.000	48.253	53.666	-25.747	74.000	-5.413	PK

Profile: 2320056R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 2：Transmit at 2412MHz by 802.11g	



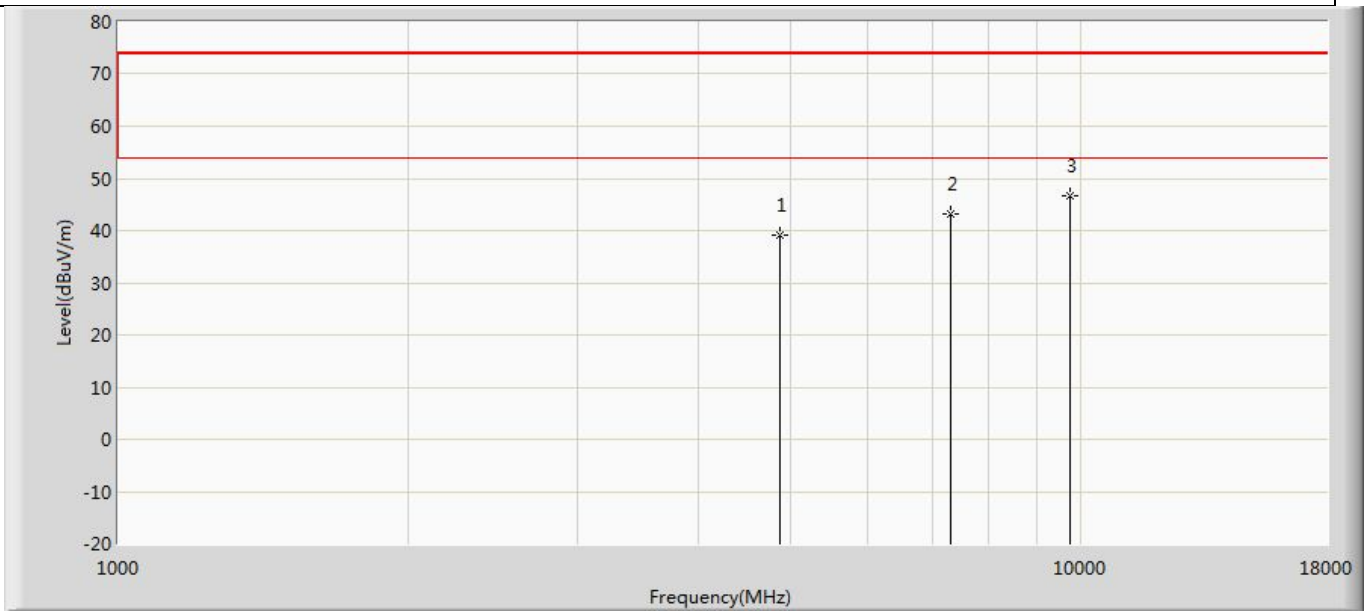
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.090	56.735	-31.910	74.000	-14.646	PK
2		7236.000	44.811	54.569	-29.189	74.000	-9.758	PK
3	*	9648.000	49.026	54.439	-24.974	74.000	-5.413	PK

Profile: 2320056R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 2：Transmit at 2437MHz by 802.11g	



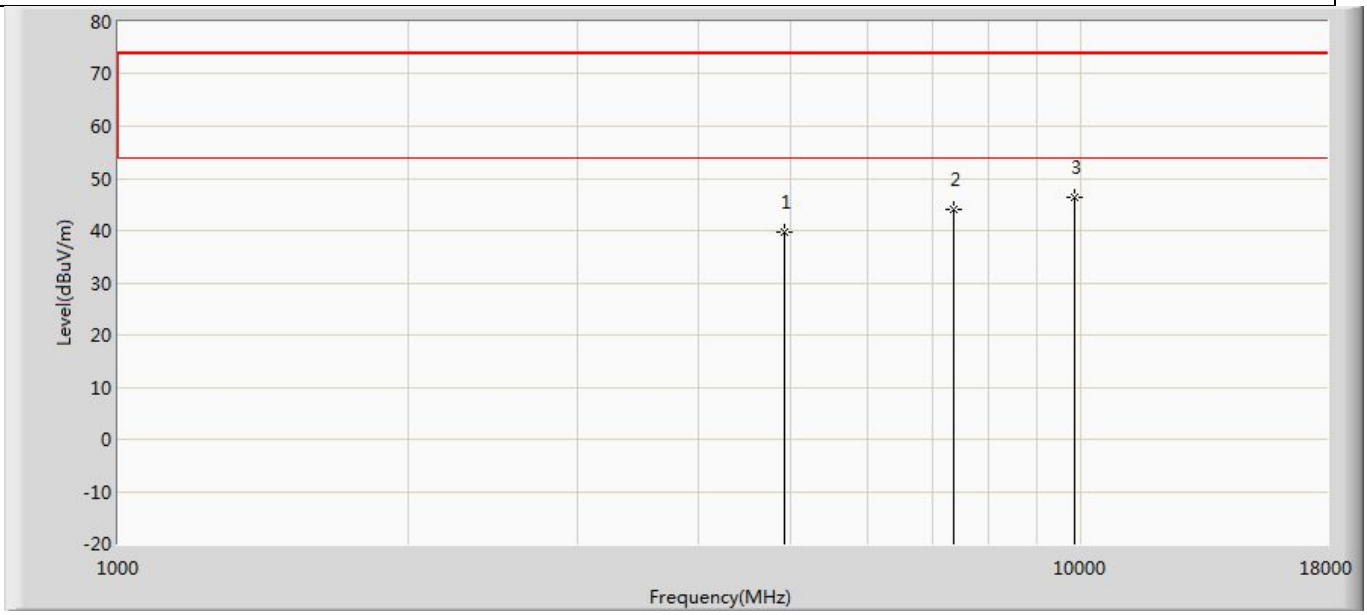
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.232	53.568	-34.768	74.000	-14.335	PK
2		7311.000	43.697	53.445	-30.303	74.000	-9.747	PK
3	*	9748.000	47.391	52.882	-26.609	74.000	-5.491	PK

Profile: 2320056R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 2：Transmit at 2437MHz by 802.11g	



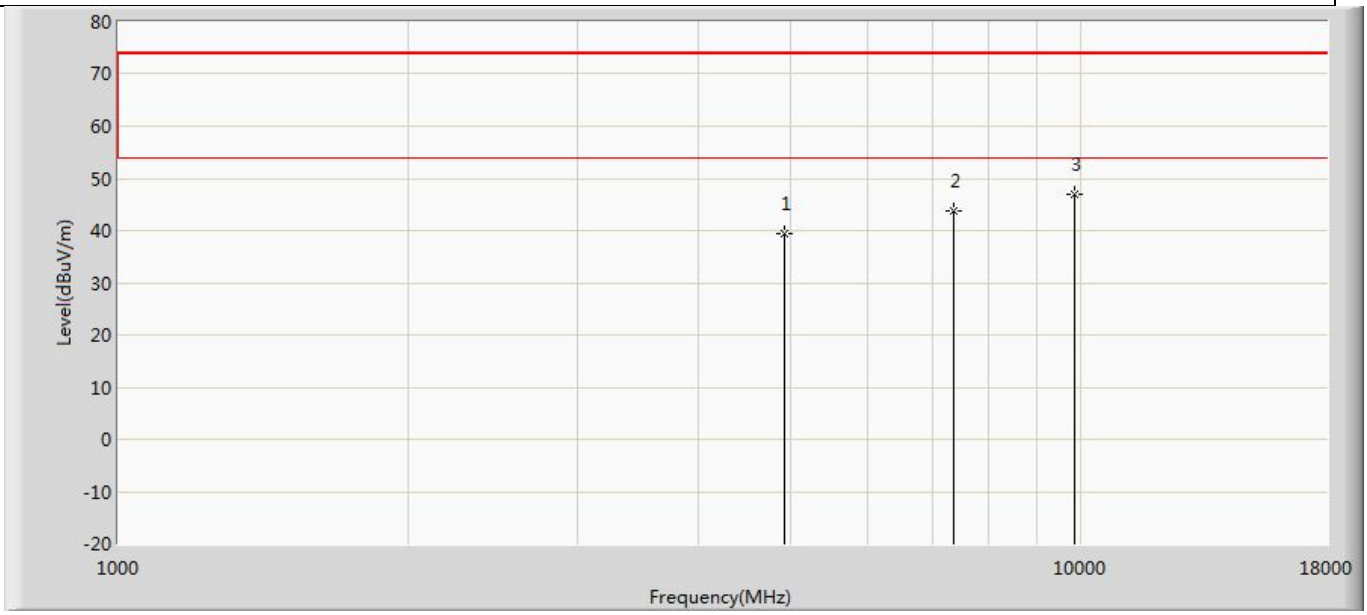
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.155	53.491	-34.845	74.000	-14.335	PK
2		7311.000	43.191	52.939	-30.809	74.000	-9.747	PK
3	*	9748.000	46.651	52.142	-27.349	74.000	-5.491	PK

Profile: 2320056R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 2：Transmit at 2462MHz by 802.11g	



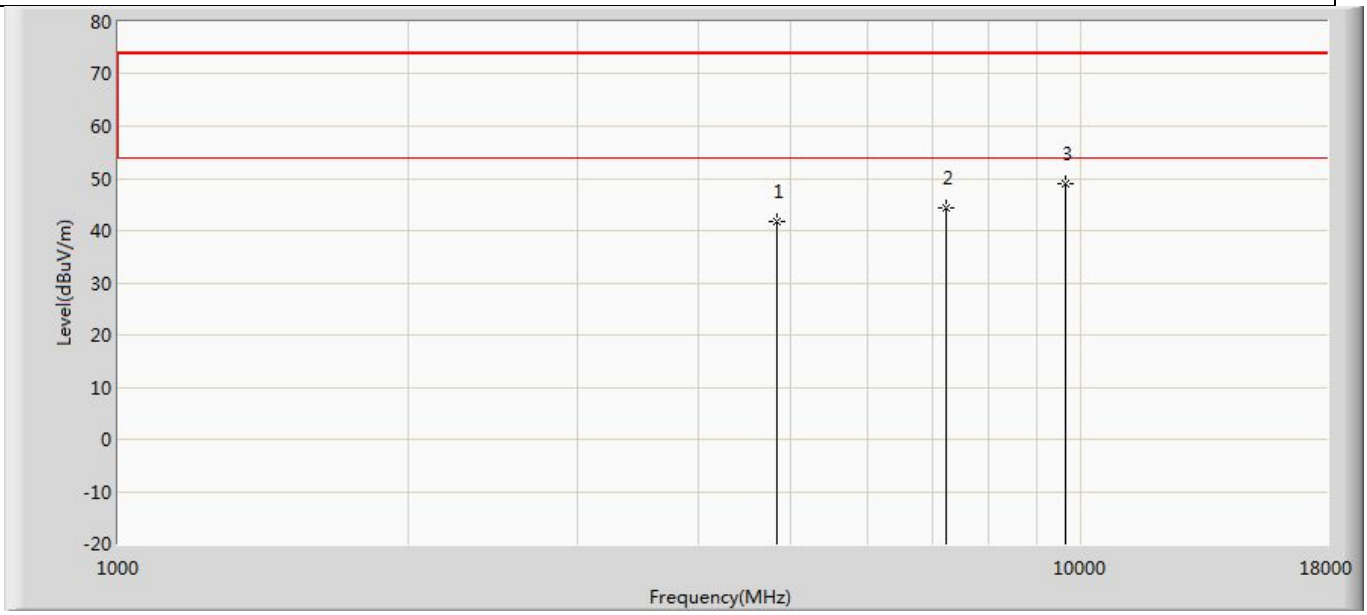
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.756	54.229	-34.244	74.000	-14.473	PK
2		7386.000	43.972	53.779	-30.028	74.000	-9.808	PK
3	*	9848.000	46.441	51.588	-27.559	74.000	-5.147	PK

Profile: 2320056R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 2：Transmit at 2462MHz by 802.11g	



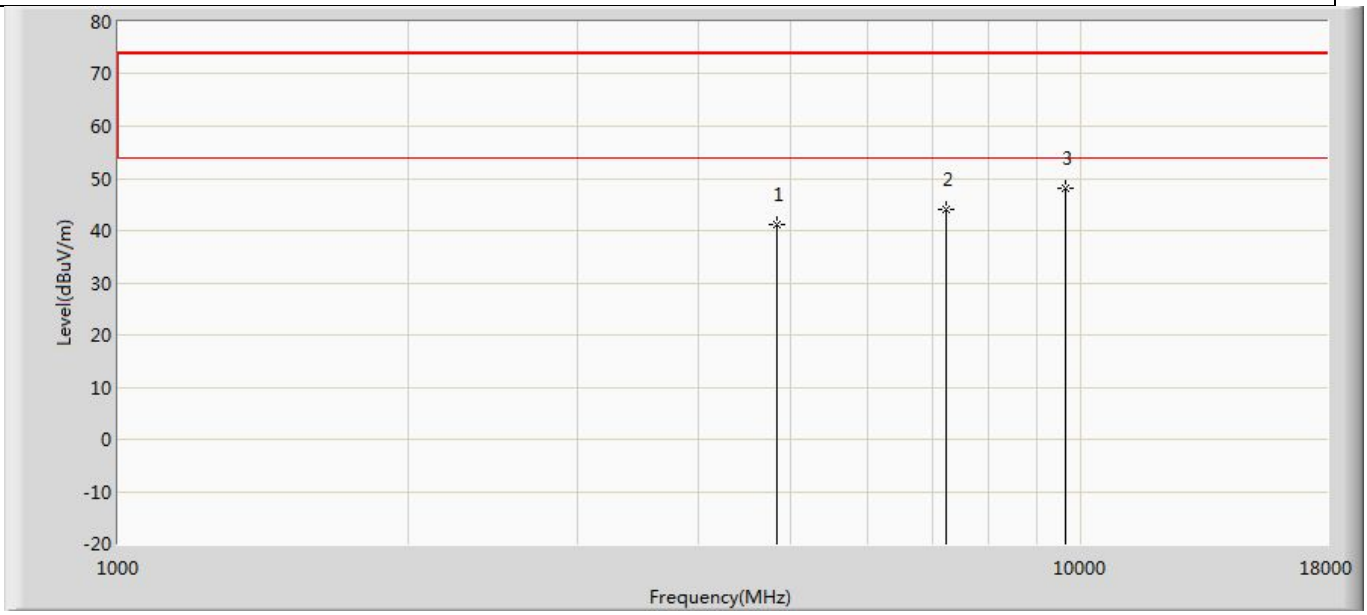
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.319	53.792	-34.681	74.000	-14.473	PK
2		7386.000	43.698	53.505	-30.302	74.000	-9.808	PK
3	*	9848.000	46.862	52.009	-27.138	74.000	-5.147	PK

Profile: 2320056R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 3：Transmit at 2412MHz by 802.11n(20MHz)	



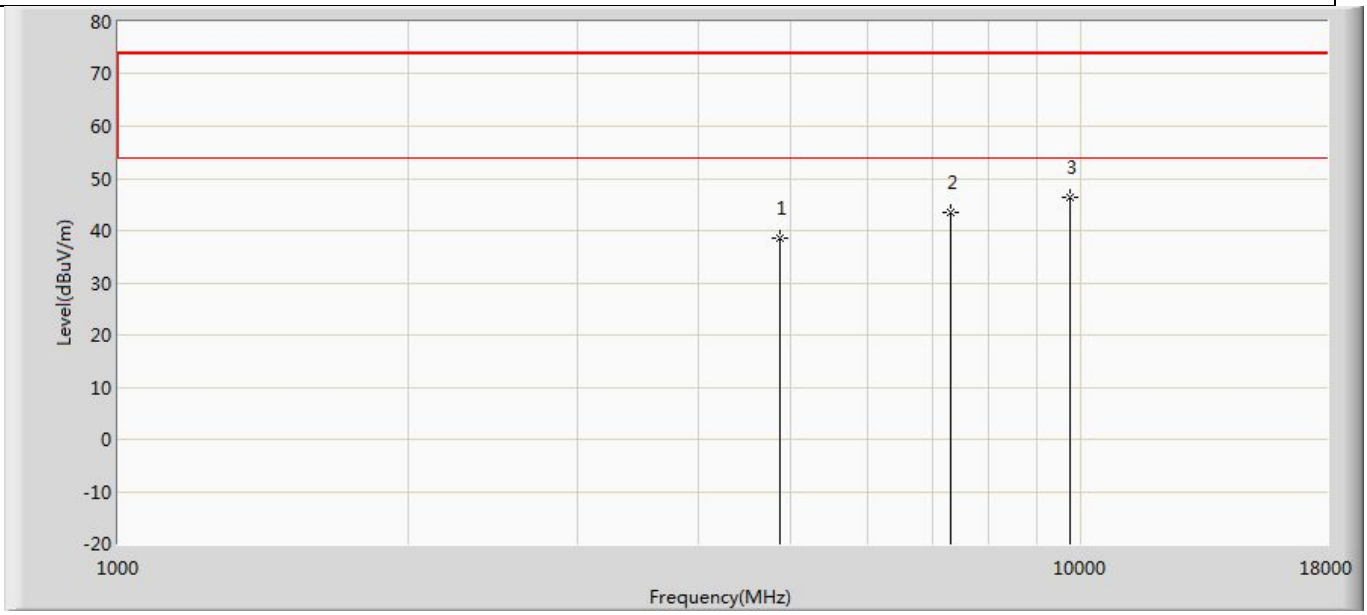
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.596	56.241	-32.404	74.000	-14.646	PK
2		7236.000	44.396	54.154	-29.604	74.000	-9.758	PK
3	*	9648.000	48.879	54.292	-25.121	74.000	-5.413	PK

Profile: 2320056R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 3：Transmit at 2412MHz by 802.11n(20MHz)	



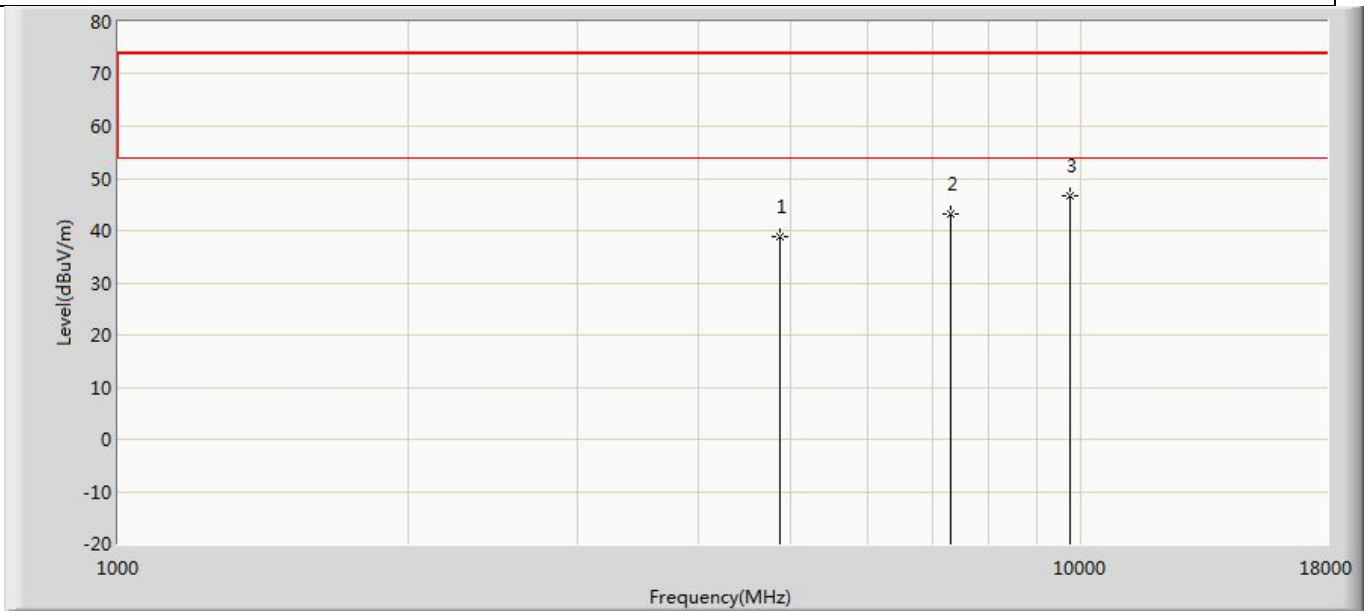
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.088	55.733	-32.912	74.000	-14.646	PK
2		7236.000	44.174	53.932	-29.826	74.000	-9.758	PK
3	*	9648.000	48.166	53.579	-25.834	74.000	-5.413	PK

Profile: 2320056R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 3：Transmit at 2437MHz by 802.11n(20MHz)	



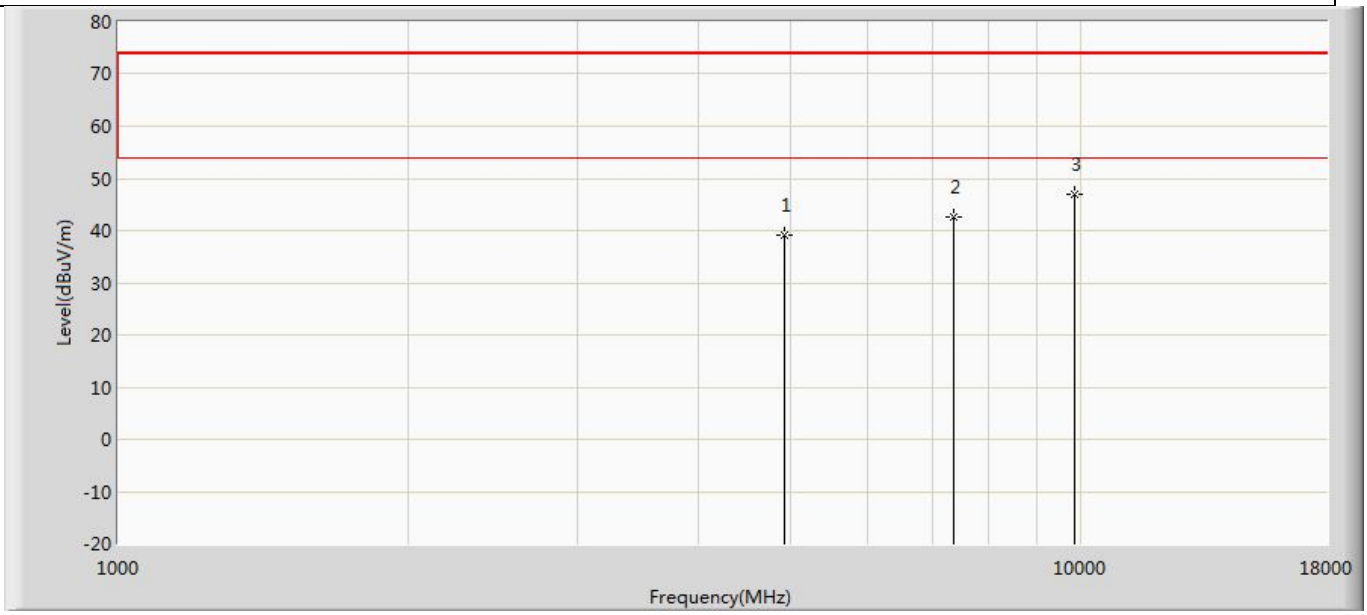
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.684	53.020	-35.316	74.000	-14.335	PK
2		7311.000	43.351	53.099	-30.649	74.000	-9.747	PK
3	*	9748.000	46.487	51.978	-27.513	74.000	-5.491	PK

Profile: 2320056R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 3：Transmit at 2437MHz by 802.11n(20MHz)	



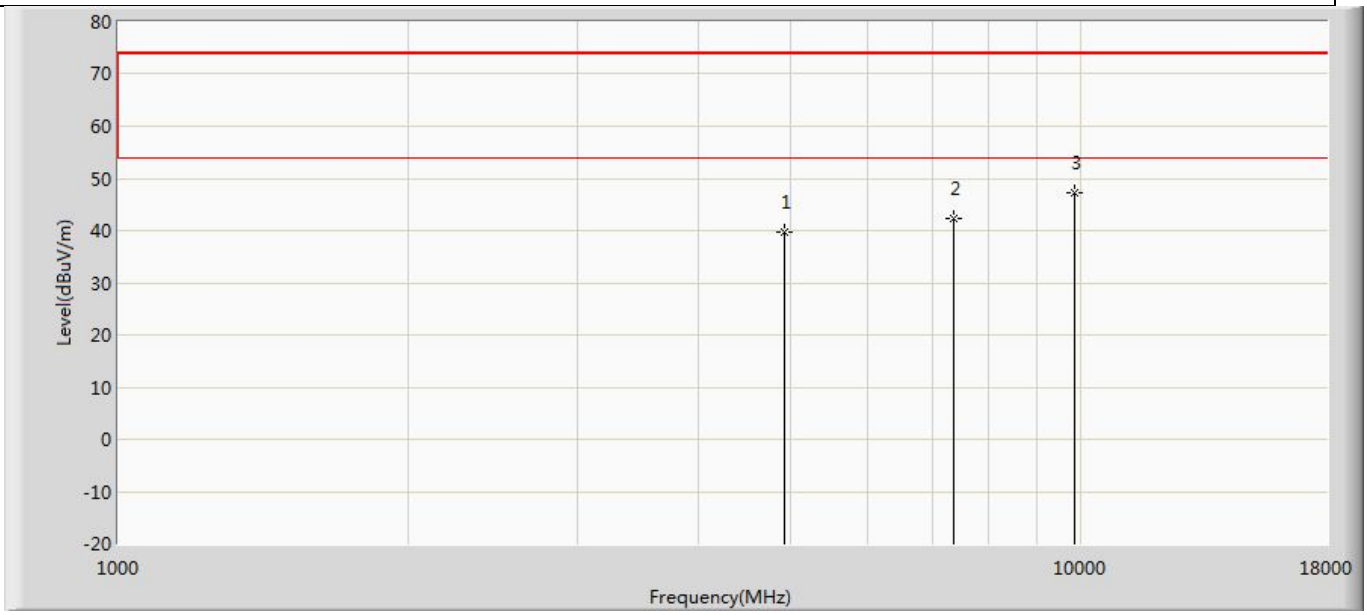
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.985	53.321	-35.015	74.000	-14.335	PK
2		7311.000	43.192	52.940	-30.808	74.000	-9.747	PK
3	*	9748.000	46.790	52.281	-27.210	74.000	-5.491	PK

Profile: 2320056R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode 3：Transmit at 2462MHz by 802.11n(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	38.998	53.471	-35.002	74.000	-14.473	PK
2		7386.000	42.641	52.448	-31.359	74.000	-9.808	PK
3	*	9848.000	47.010	52.157	-26.990	74.000	-5.147	PK

Profile: 2320056R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode 3：Transmit at 2462MHz by 802.11n(20MHz)	

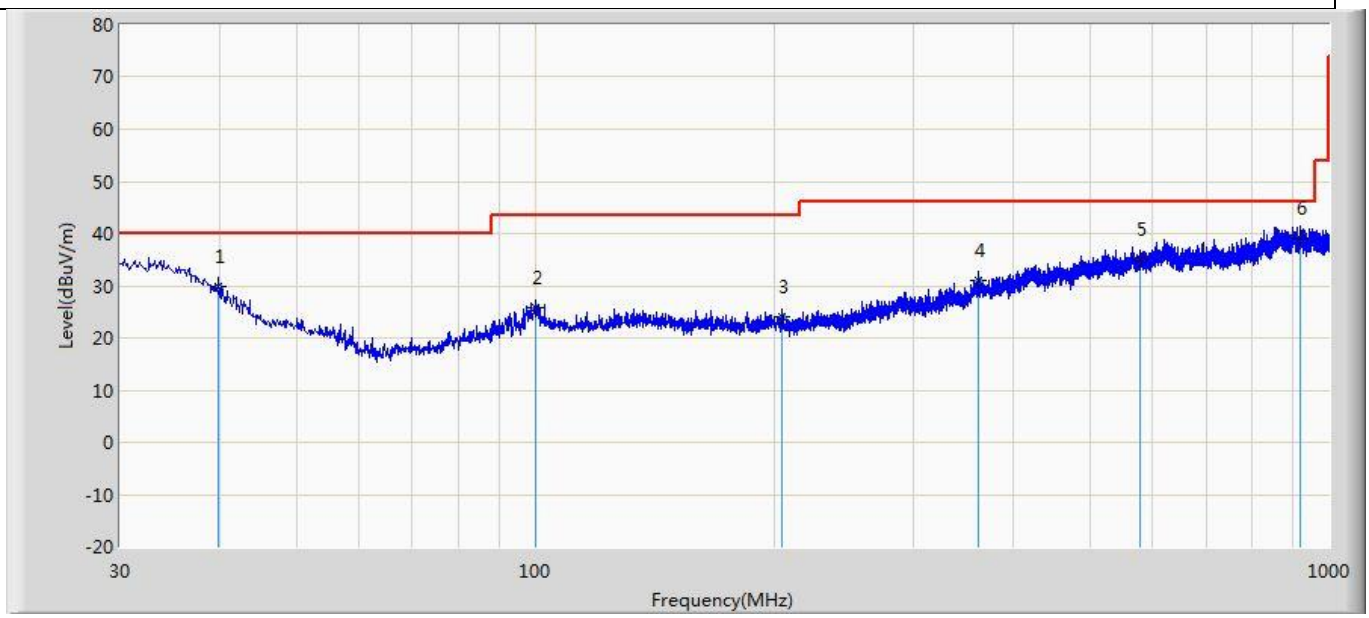


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.682	54.155	-34.318	74.000	-14.473	PK
2		7386.000	42.426	52.233	-31.574	74.000	-9.808	PK
3	*	9848.000	47.255	52.402	-26.745	74.000	-5.147	PK

Note:
1. " * ", means this data is the worst emission level.
2. Measured Level = Reading Level + Factor.
3. The test frequency range 9kHz~30MHz and above 18GHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. This limit applies for both peak and average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
5.The points in graph are the highest data in test frequency range.

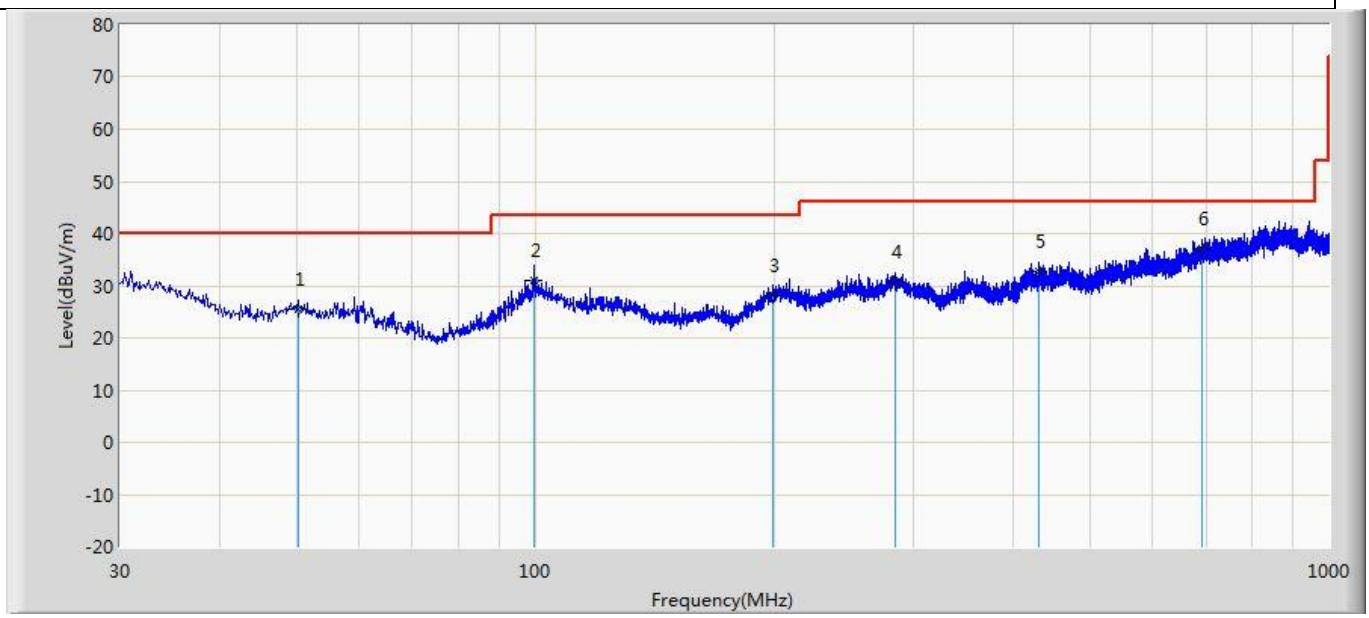
The worst case of Radiated Emission below 1GHz:

Profile: 2320056R	Page No.: 143
Engineer: Yu Liu	
Site: AC2	Time: 2023/02/14 - 07:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: SC2124	Power: Battery
Note: Mode1：Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		39.943	29.900	7.641	-10.100	40.000	22.258	QP
2		99.961	25.813	8.683	-17.687	43.500	17.130	QP
3		204.479	24.054	6.478	-19.446	43.500	17.576	QP
4		361.497	30.967	6.628	-15.033	46.000	24.339	QP
5		578.050	35.038	6.698	-10.962	46.000	28.340	QP
6	*	920.218	39.029	6.329	-6.971	46.000	32.701	QP

Profile: 2320056R	Page No.: 144
Engineer: Yu Liu	
Site: AC2	Time: 2023/02/14 - 07:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: SC2124	Power: Battery
Note: Mode1：Transmit at 2412MHz by 802.11b	

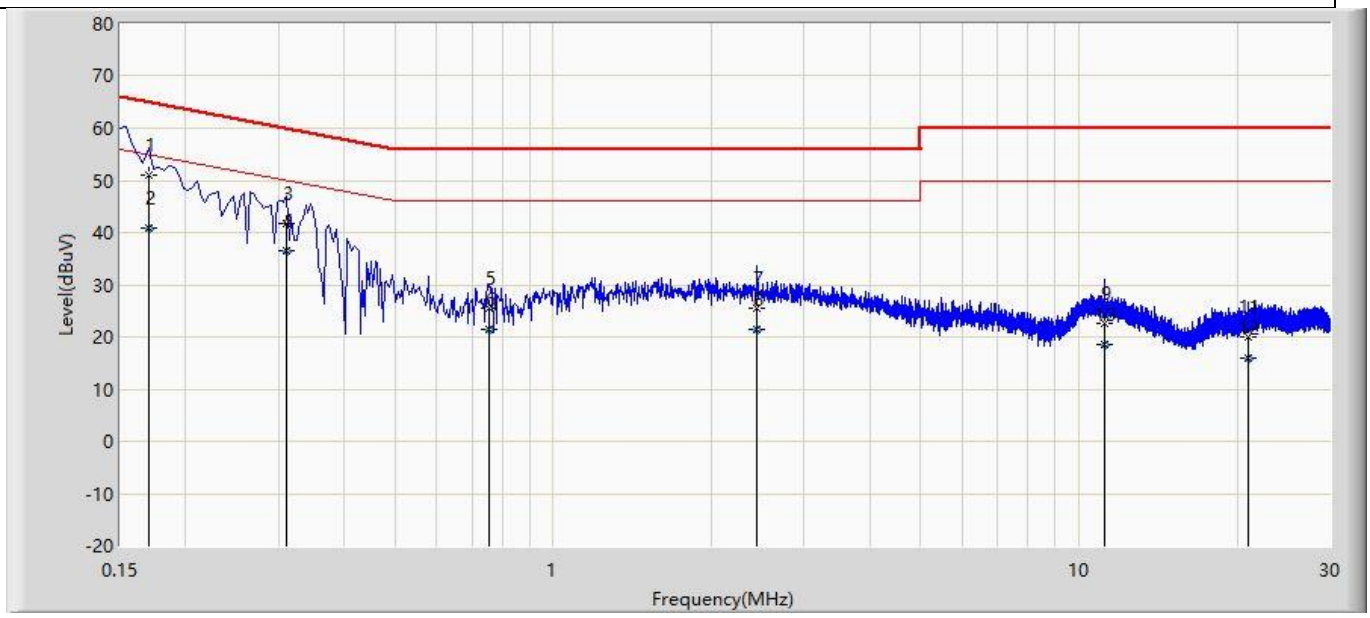


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.249	25.627	6.173	-14.373	40.000	19.454	QP
2		99.598	31.085	9.324	-12.415	43.500	21.761	QP
3		199.476	28.039	4.684	-15.461	43.500	23.355	QP
4		284.261	30.695	5.534	-15.305	46.000	25.161	QP
5		431.337	32.882	6.972	-13.118	46.000	25.910	QP
6	*	693.116	36.958	6.522	-9.042	46.000	30.435	QP

Note:
1. " * ", means this data is the worst emission level.
2. Measured Level = Reading Level + Factor.
3. The test frequency range 9kHz~30MHz and above 18GHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. This limit applies for both peak and average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

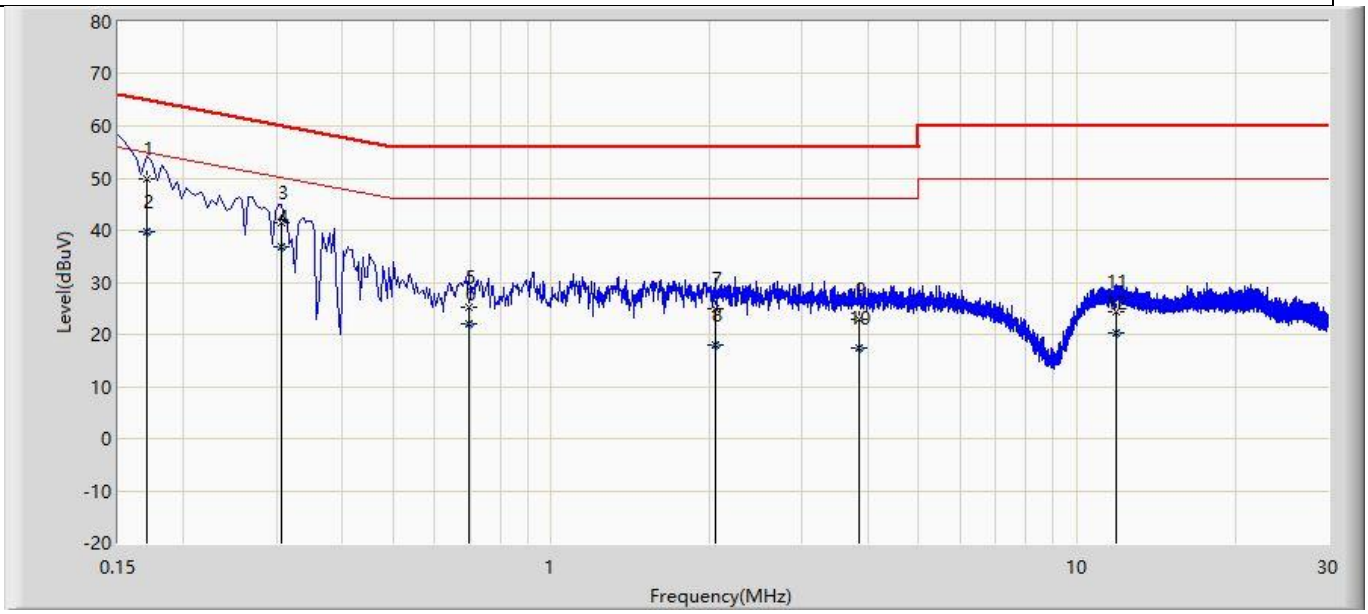
Appendix I: AC Power Line Conducted Emission
Test Result

Profile: 2320056R	Page No.: 135
Engineer: Yu Liu	
Site: TR1	Time: 2023/02/14 - 07:23
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: SC2124	Power: Battery
Note: Mode1：Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.170	50.972	41.399	-13.988	64.960	9.573	QP
2		0.170	40.920	31.346	-14.041	54.960	9.573	AV
3		0.310	41.688	32.090	-18.283	59.970	9.597	QP
4	*	0.310	36.665	27.068	-13.305	49.970	9.597	AV
5		0.754	25.553	15.922	-30.447	56.000	9.631	QP
6		0.754	21.561	11.929	-24.439	46.000	9.631	AV
7		2.434	25.533	15.834	-30.467	56.000	9.699	QP
8		2.434	21.349	11.650	-24.651	46.000	9.699	AV
9		11.198	22.696	12.650	-37.304	60.000	10.046	QP
10		11.198	18.565	8.519	-31.435	50.000	10.046	AV
11		21.038	20.082	9.789	-39.918	60.000	10.293	QP
12		21.038	15.931	5.638	-34.069	50.000	10.293	AV

Profile: 2320056R	Page No.: 136
Engineer: Yu Liu	
Site: TR1	Time: 2023/02/14 - 07:26
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: SC2124	Power: Battery
Note: Mode1：Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.170	49.887	40.314	-15.073	64.960	9.573	QP
2		0.170	39.780	30.206	-15.181	54.960	9.573	AV
3		0.306	41.513	31.915	-18.566	60.078	9.598	QP
4	*	0.306	36.955	27.357	-13.124	50.078	9.598	AV
5		0.698	25.353	15.723	-30.647	56.000	9.630	QP
6		0.698	22.025	12.395	-23.975	46.000	9.630	AV
7		2.050	24.785	15.105	-31.215	56.000	9.680	QP
8		2.050	18.070	8.389	-27.930	46.000	9.680	AV
9		3.842	22.882	13.119	-33.118	56.000	9.764	QP
10		3.842	17.452	7.689	-28.548	46.000	9.764	AV
11		11.890	24.343	14.278	-35.657	60.000	10.065	QP
12		11.890	20.349	10.284	-29.651	50.000	10.065	AV

Note:
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.

The End