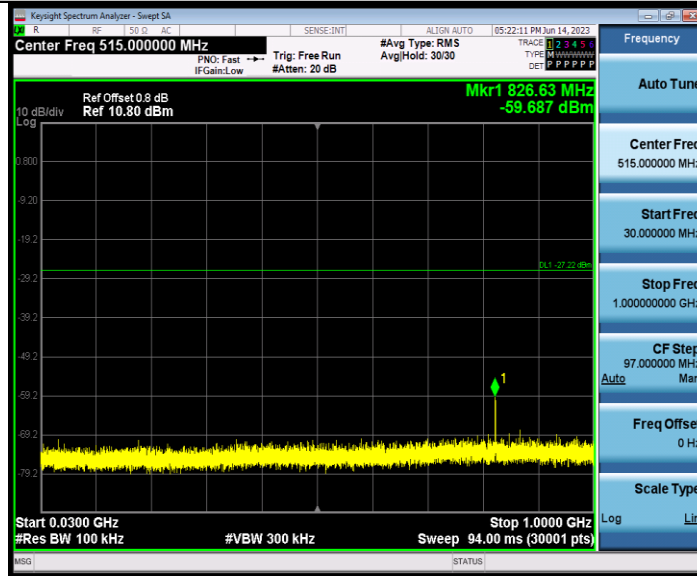
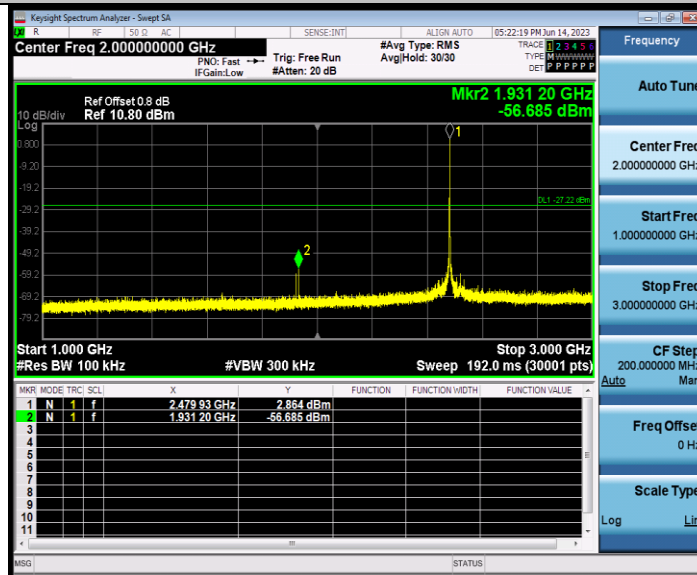


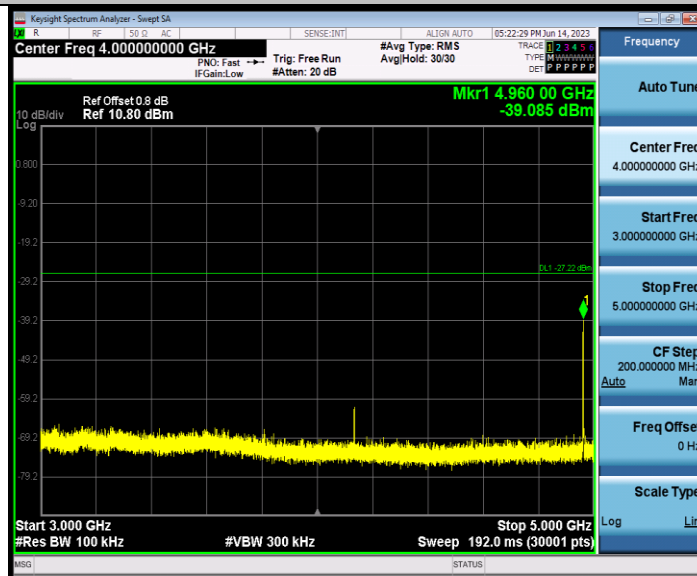
3DH5\_Ant1\_2480\_30~1000



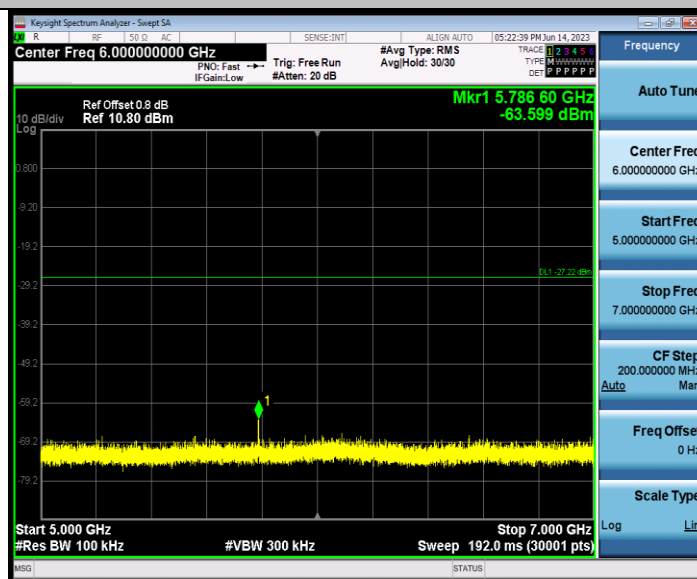
3DH5\_Ant1\_2480\_1000~3000



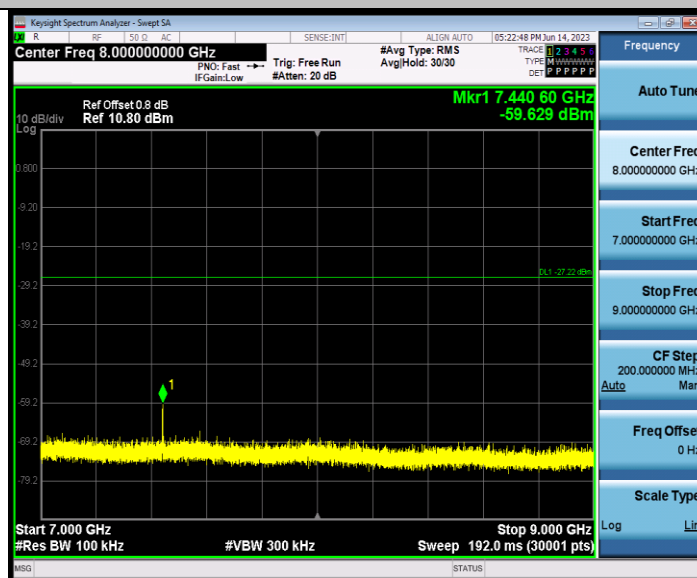
3DH5\_Ant1\_2480\_3000~5000



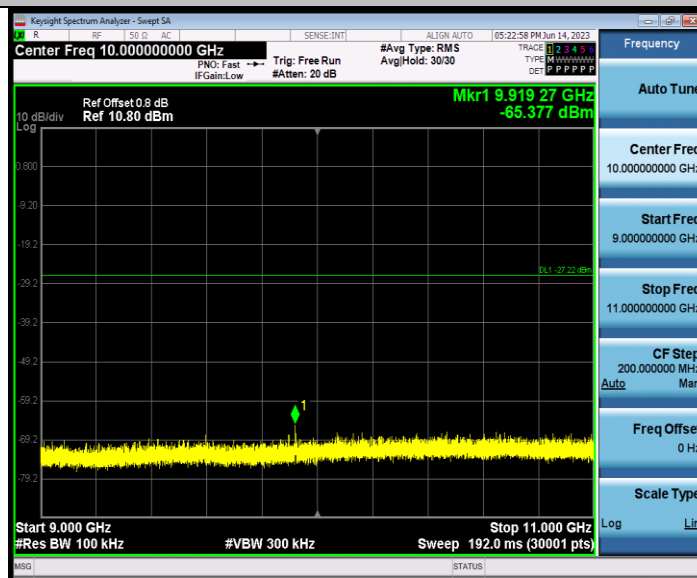
3DH5\_Ant1\_2480\_5000~7000



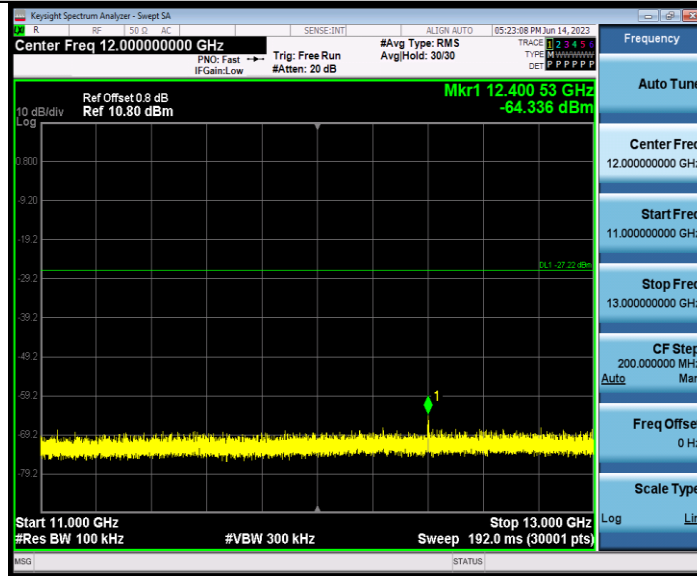
3DH5\_Ant1\_2480\_7000~9000



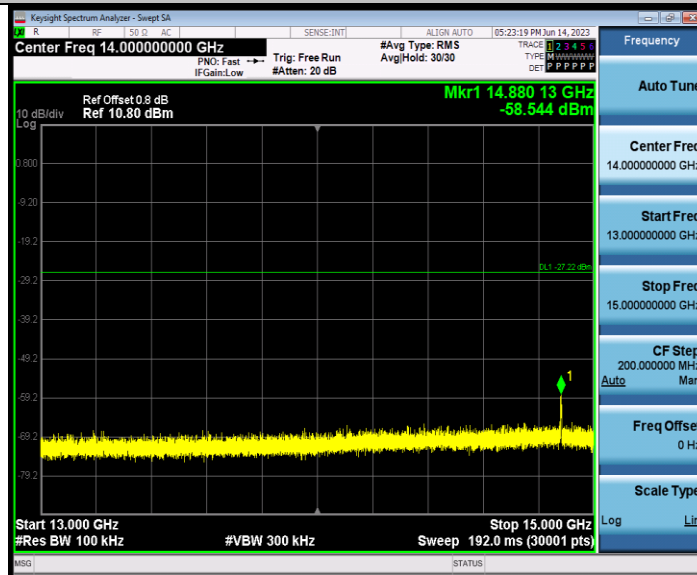
3DH5\_Ant1\_2480\_9000~11000



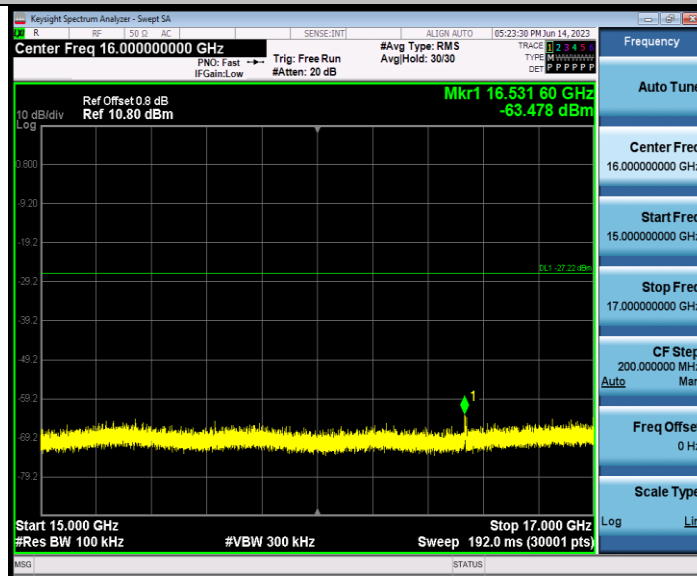
3DH5\_Ant1\_2480\_11000~13000



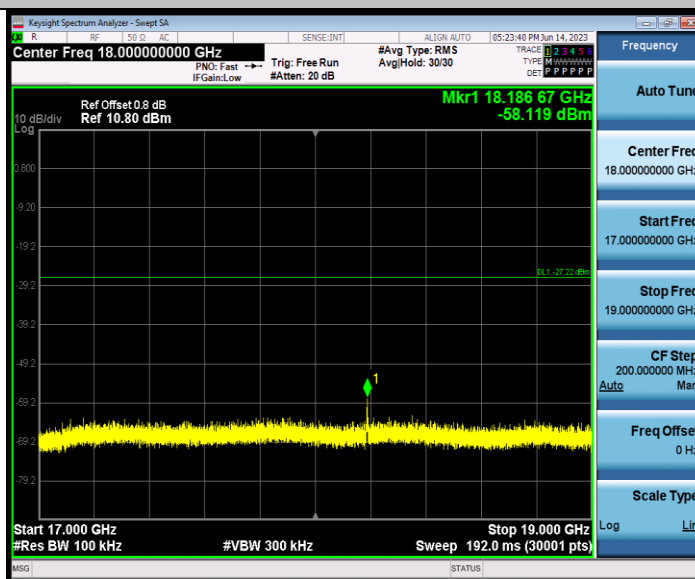
3DH5\_Ant1\_2480\_13000~15000



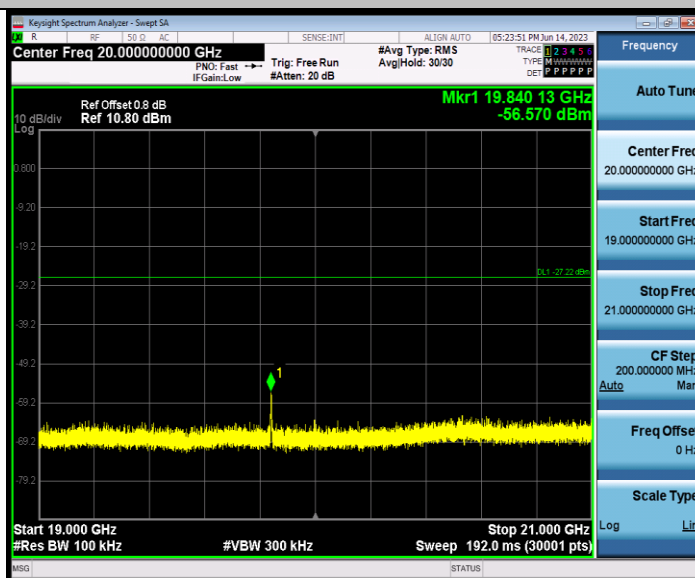
3DH5\_Ant1\_2480\_15000~17000



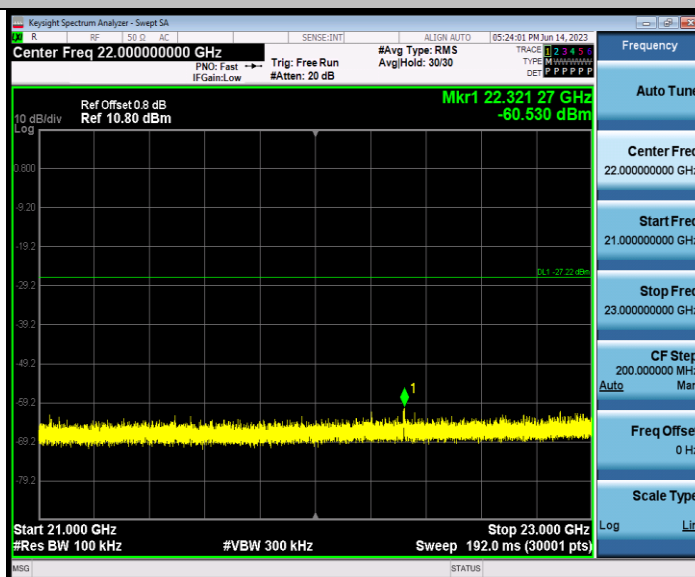
3DH5\_Ant1\_2480\_17000~19000



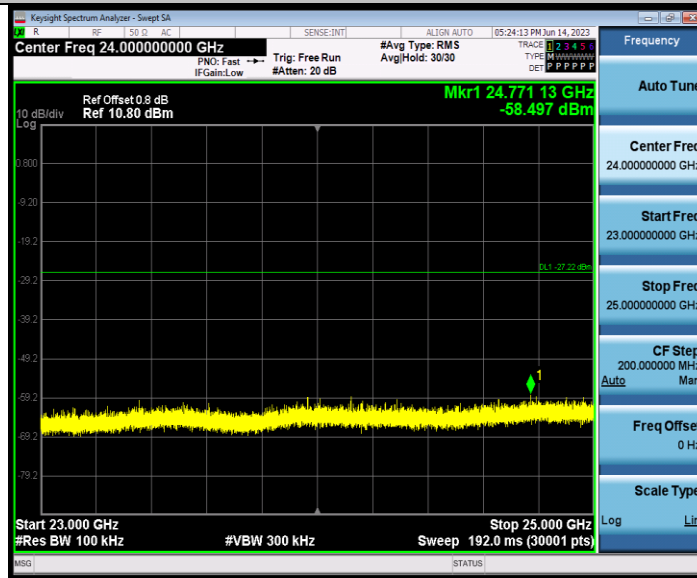
3DH5\_Ant1\_2480\_19000~21000



3DH5\_Ant1\_2480\_21000~23000



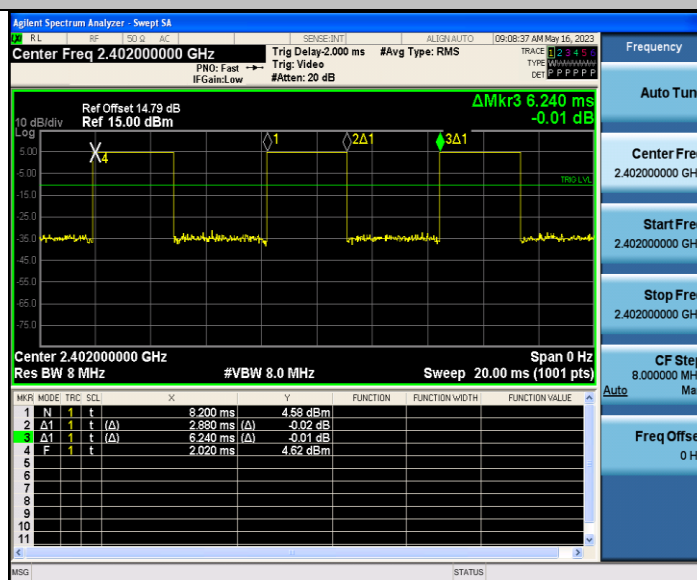
3DH5\_Ant1\_2480\_23000~25000



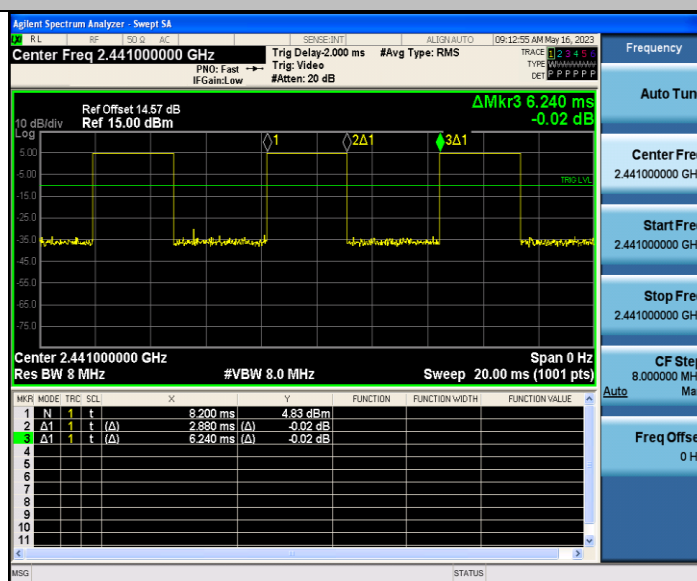
### Appendix I: Duty Cycle

TestMode	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	2402	2.88	6.24	46.15	3.36
	2441	2.88	6.24	46.15	3.36
	2480	2.88	6.24	46.15	3.36
2DH5	2402	2.88	6.24	46.15	3.36
	2441	2.88	6.24	46.15	3.36
	2480	2.88	6.24	46.15	3.36
3DH5	2402	2.90	6.26	46.33	3.34
	2441	2.88	6.24	46.15	3.36
	2480	2.90	6.26	46.33	3.34

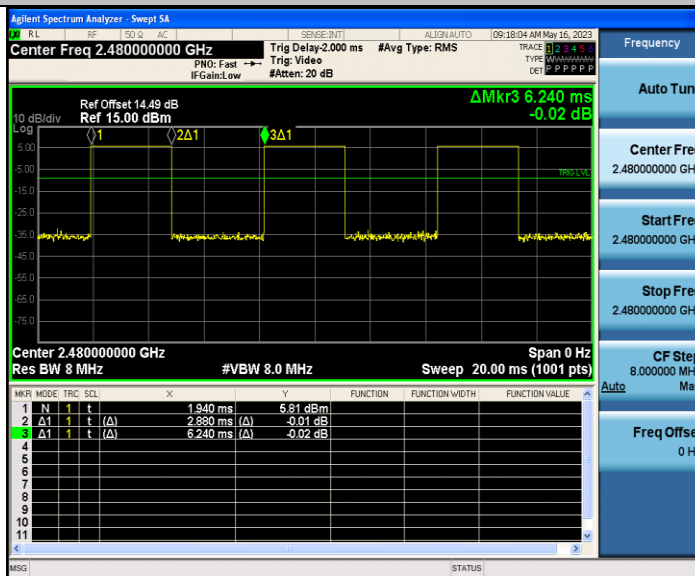
DH5\_Ant1\_2402



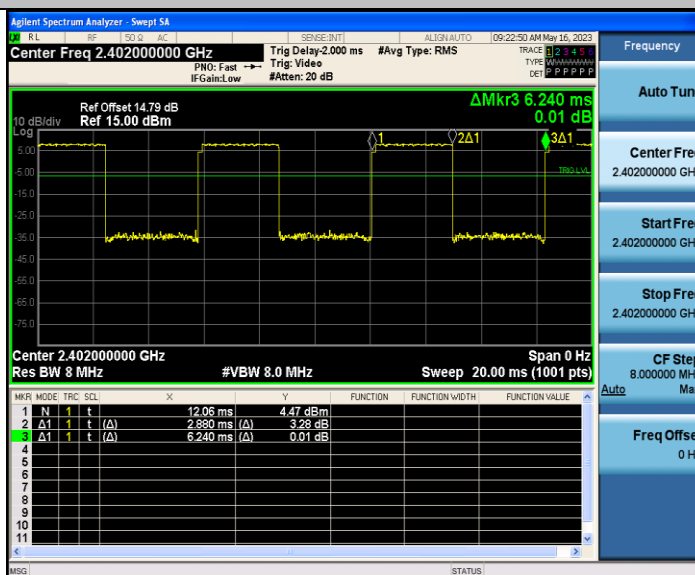
DH5\_Ant1\_2441



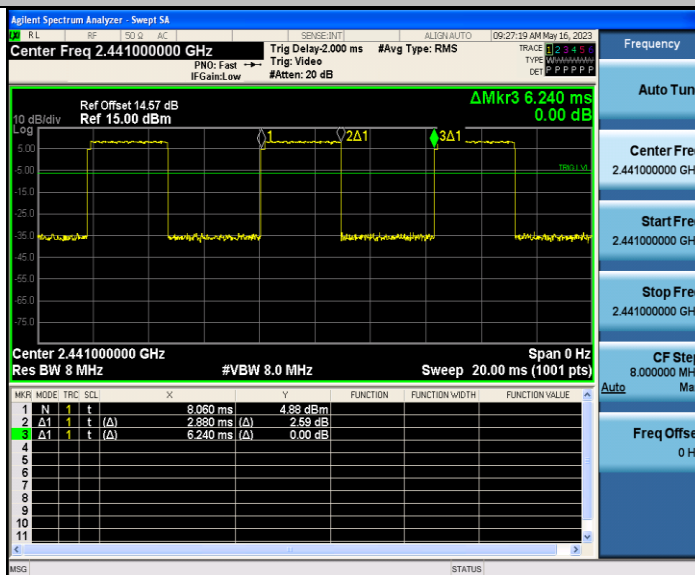
DH5\_Ant1\_2480



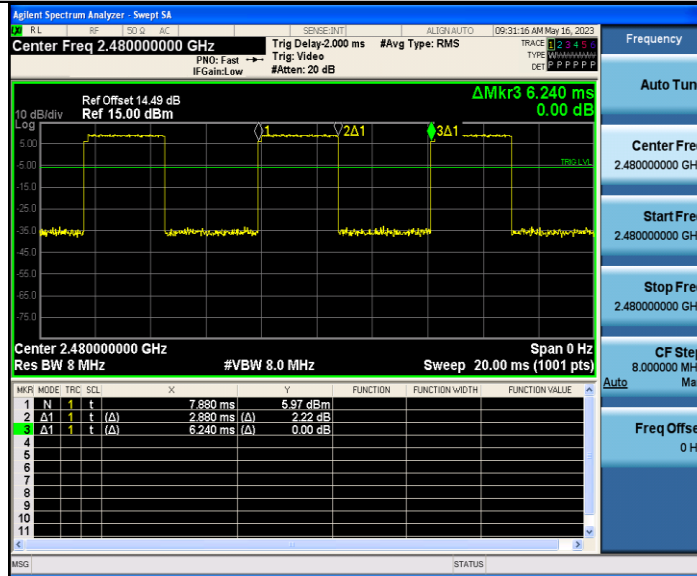
2DH5\_Ant1\_2402



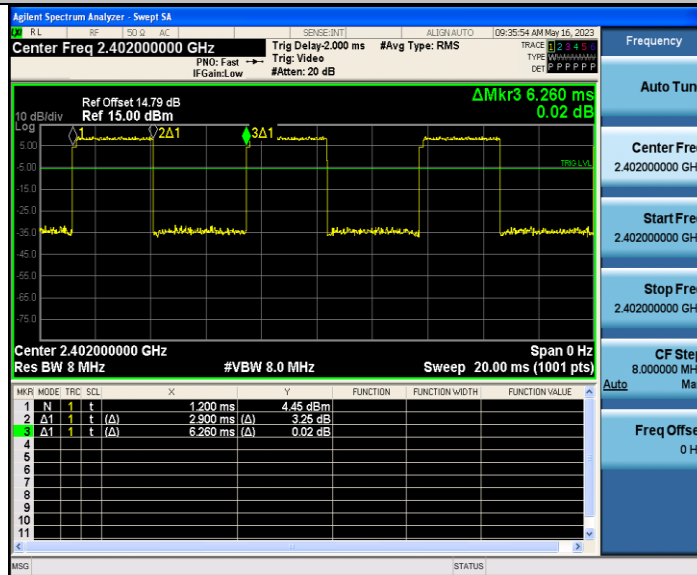
2DH5\_Ant1\_2441



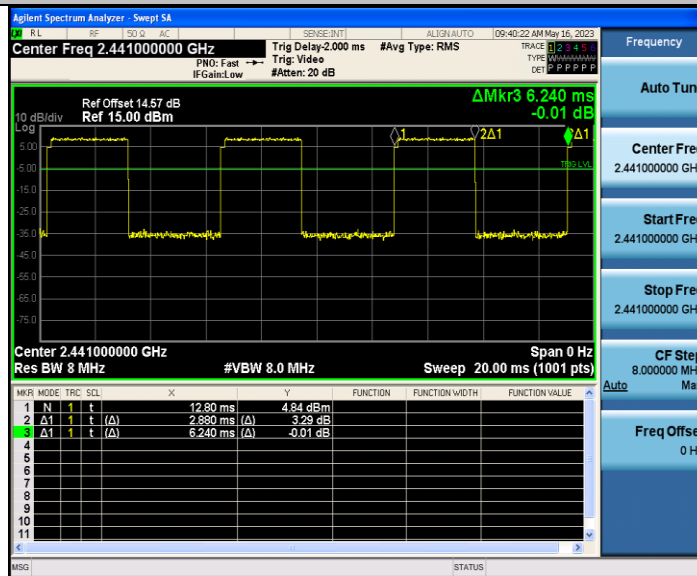
2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

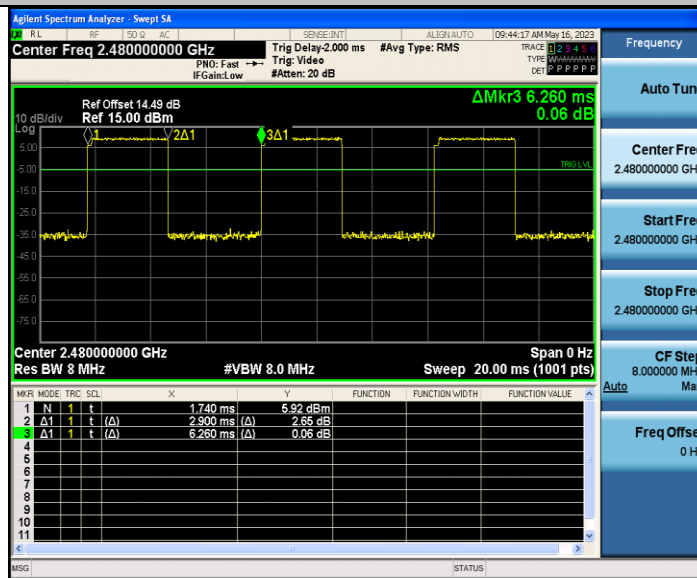


3DH5\_Ant1\_2441



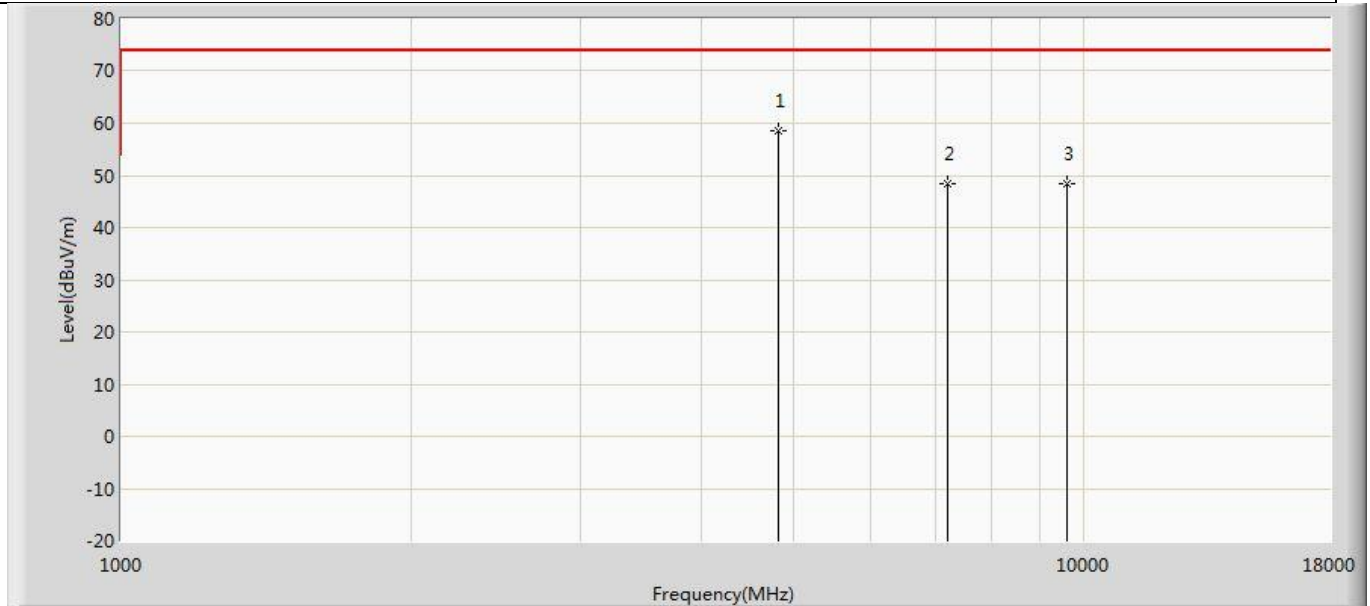


3DH5\_Ant1\_2480



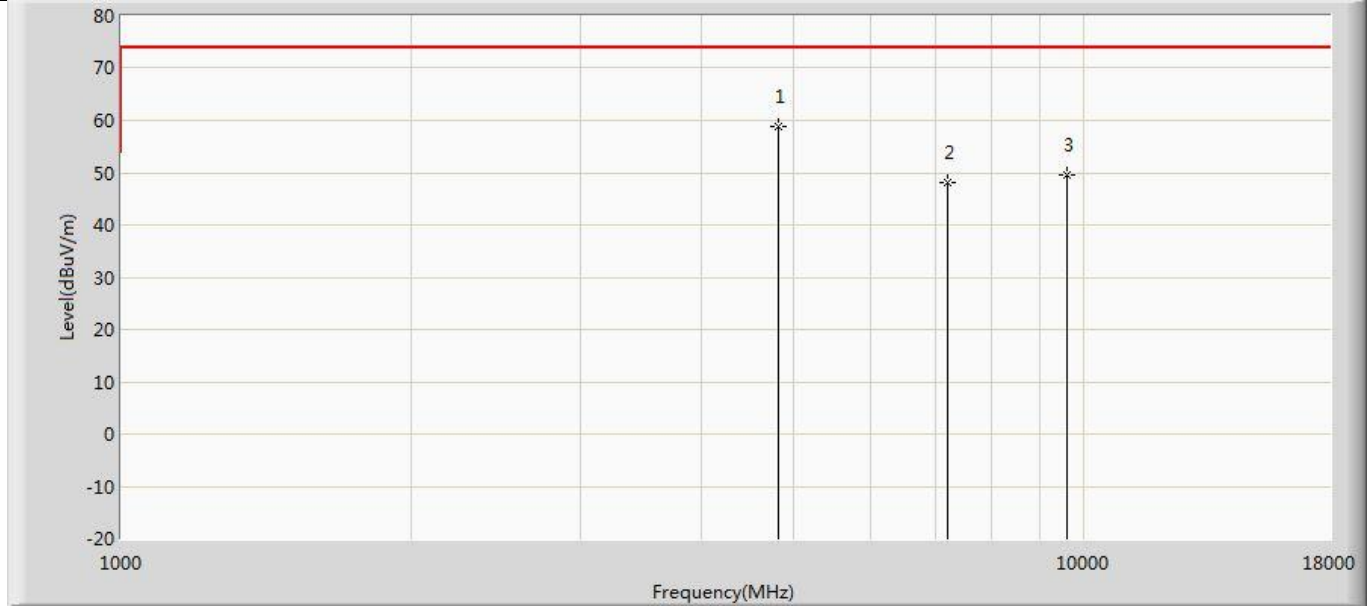
## Appendix J: Emissions in Restricted Band

Profile: 2340773R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	



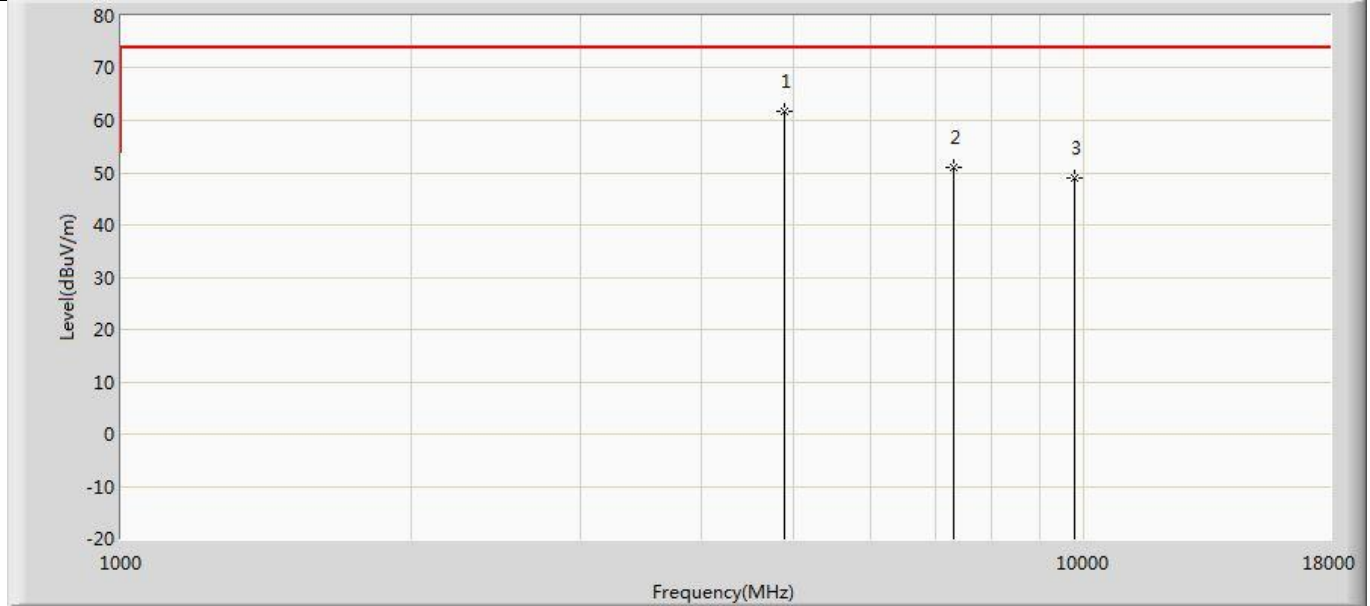
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	58.607	73.254	-15.393	74.000	-14.647	PK
2		7205.000	48.526	58.236	-25.474	74.000	-9.710	PK
3		9608.000	48.418	54.053	-25.582	74.000	-5.635	PK

Profile: 2340773R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	



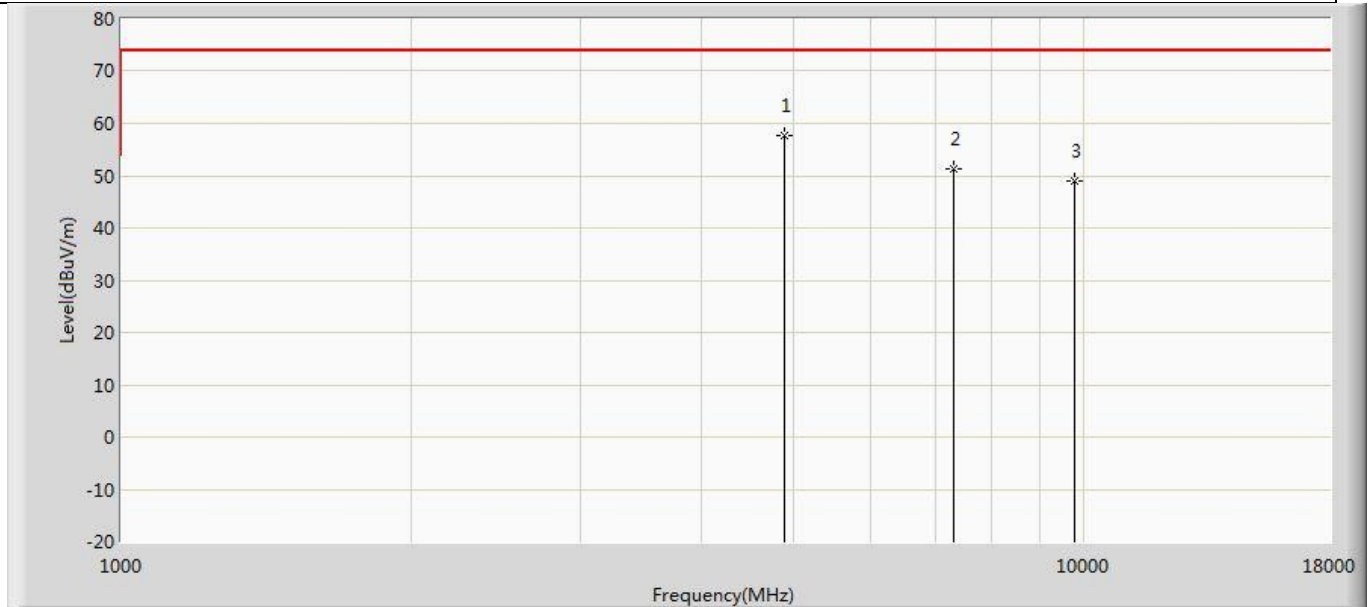
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	58.831	73.478	-15.169	74.000	-14.647	PK
2		7205.000	48.202	57.912	-25.798	74.000	-9.710	PK
3		9608.000	49.684	55.319	-24.316	74.000	-5.635	PK

Profile: 2340773R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2441MHz by DH5	



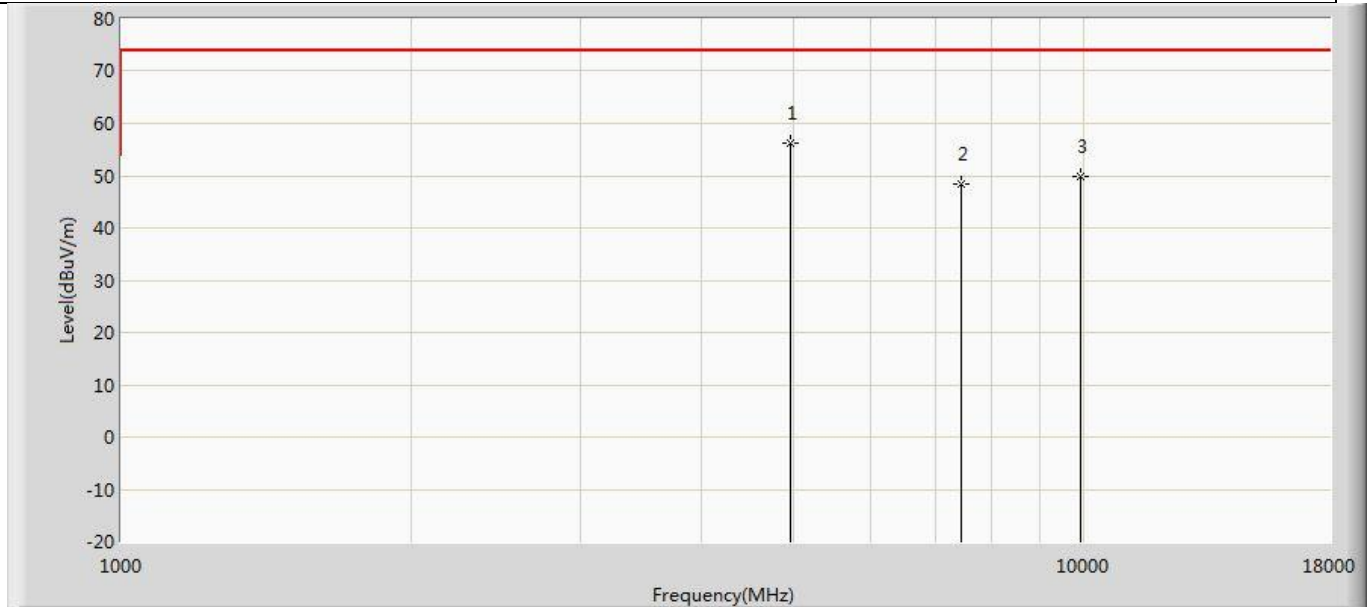
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	61.660	75.956	-12.340	74.000	-14.297	PK
2		7324.000	50.884	60.610	-23.116	74.000	-9.726	PK
3		9764.000	48.976	54.596	-25.024	74.000	-5.620	PK

Profile: 2340773R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2441MHz by DH5	



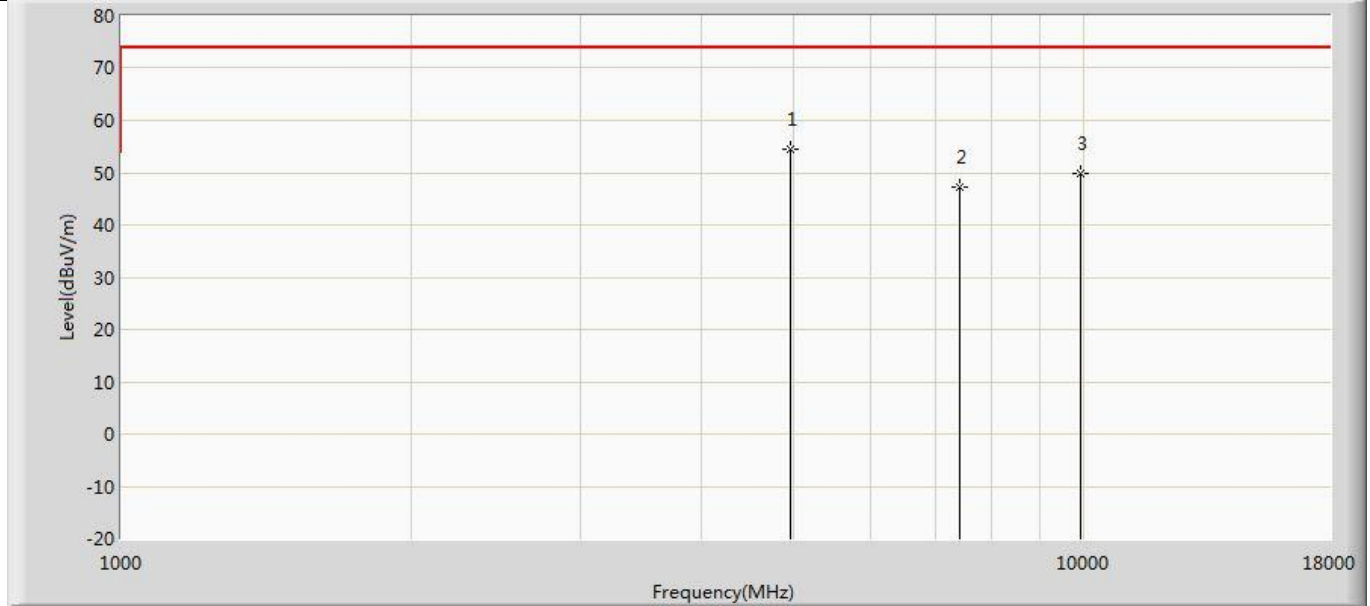
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	57.538	71.834	-16.462	74.000	-14.297	PK
2		7324.000	51.314	61.040	-22.686	74.000	-9.726	PK
3		9764.000	49.023	54.643	-24.977	74.000	-5.620	PK

Profile: 2340773R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2480MHz by DH5	



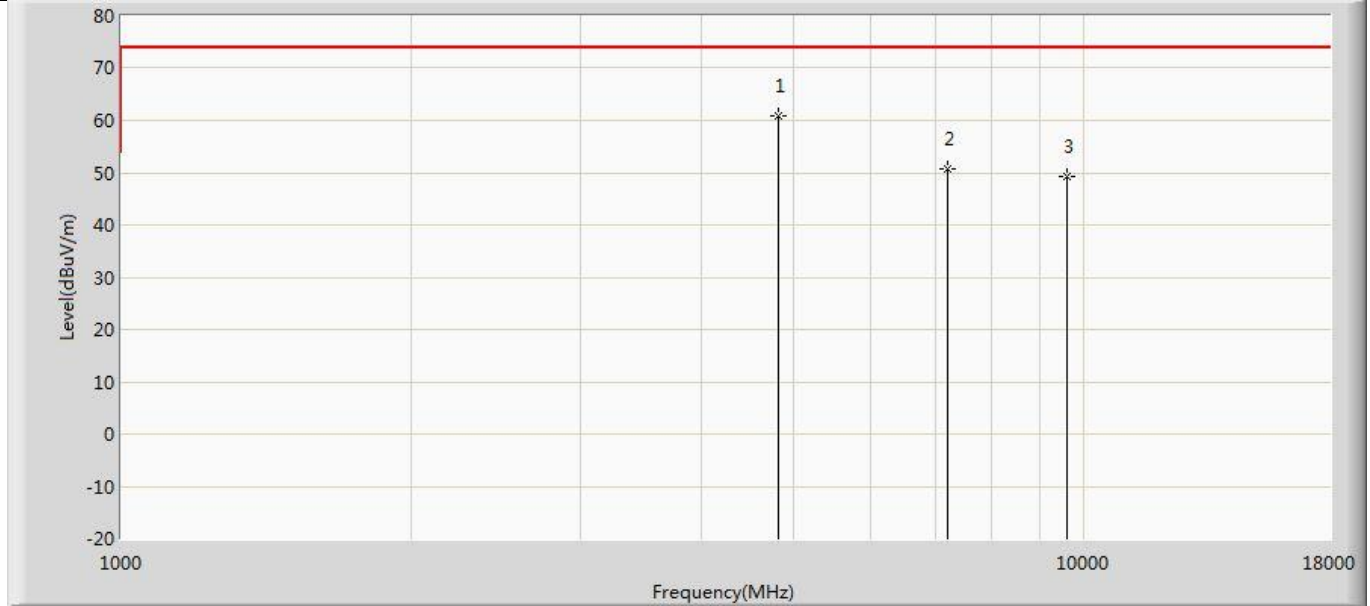
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	56.207	70.340	-17.793	74.000	-14.133	PK
2		7443.000	48.405	57.826	-25.595	74.000	-9.421	PK
3		9920.000	49.973	54.885	-24.027	74.000	-4.912	PK

Profile: 2340773R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2480MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	54.566	68.699	-19.434	74.000	-14.133	PK
2		7440.000	47.382	56.744	-26.618	74.000	-9.362	PK
3		9920.000	49.797	54.709	-24.203	74.000	-4.912	PK

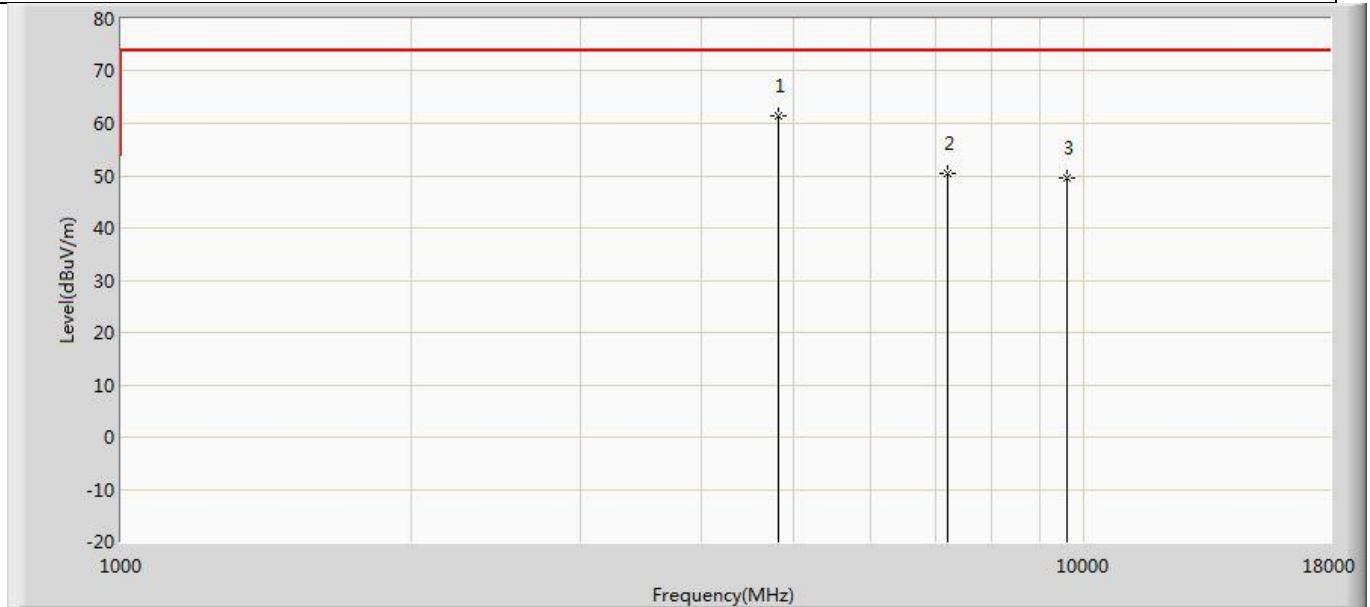
Profile: 2340773R	Page No.: 25
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	60.965	75.612	-13.035	74.000	-14.647	PK
2		7205.000	50.705	60.415	-23.295	74.000	-9.710	PK
3		9608.000	49.150	54.785	-24.850	74.000	-5.635	PK

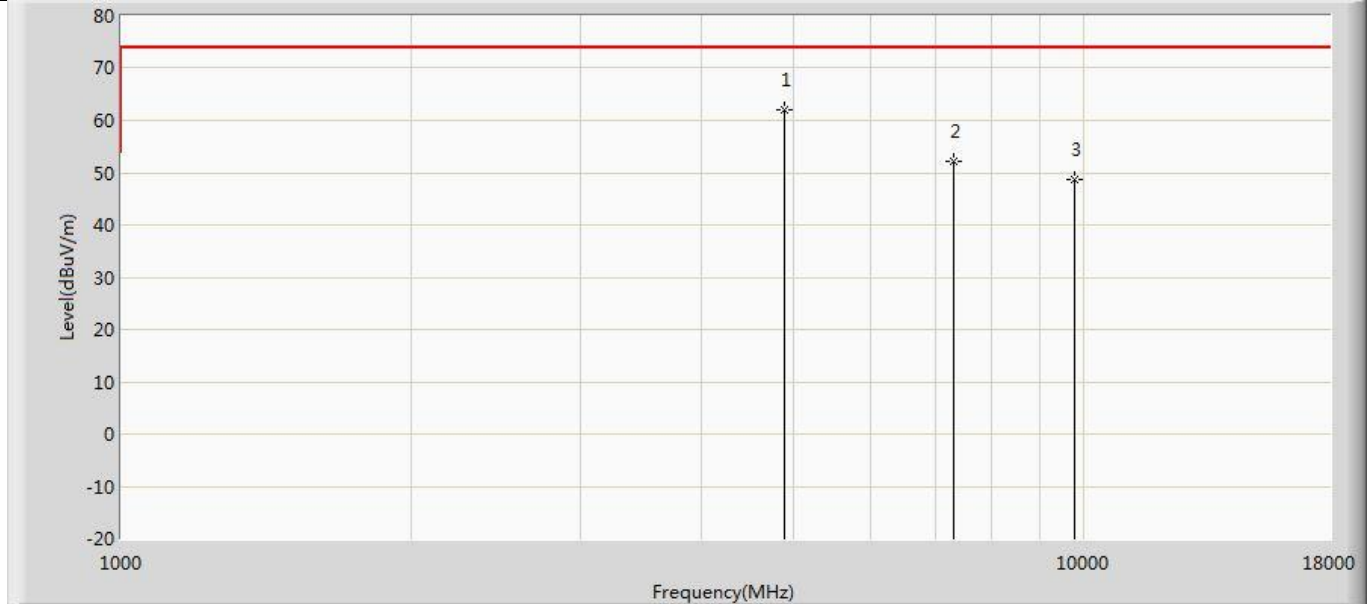


Profile: 2340773R	Page No.: 26
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



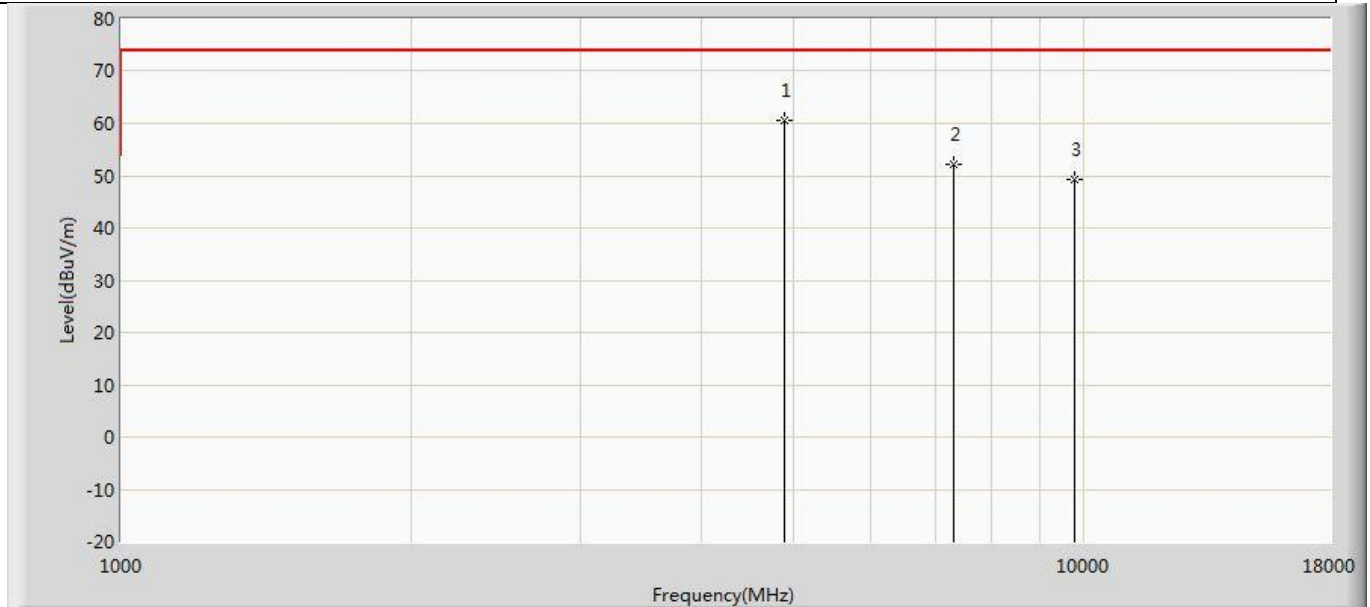
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	61.520	76.167	-12.480	74.000	-14.647	PK
2		7205.000	50.303	60.013	-23.697	74.000	-9.710	PK
3		9608.000	49.565	55.200	-24.435	74.000	-5.635	PK

Profile: 2340773R	Page No.: 27
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2441MHz by 2DH5	



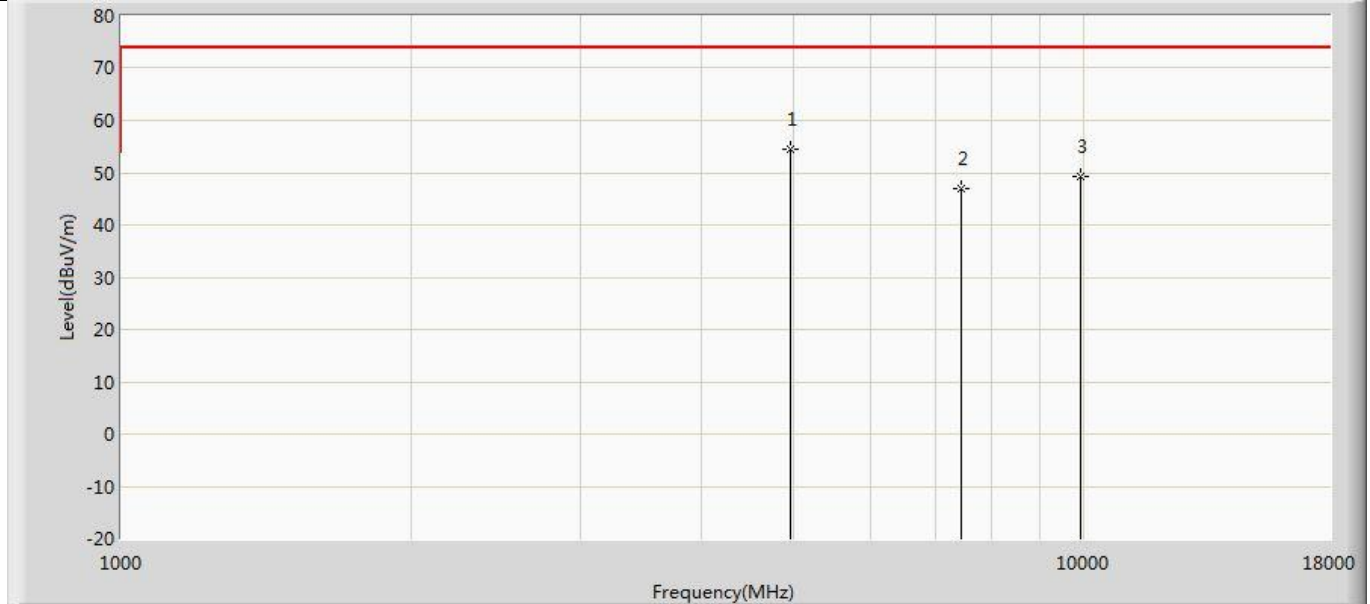
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	61.924	76.220	-12.076	74.000	-14.297	PK
2		7324.000	52.304	62.030	-21.696	74.000	-9.726	PK
3		9764.000	48.681	54.301	-25.319	74.000	-5.620	PK

Profile: 2340773R	Page No.: 28
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2441MHz by 2DH5	



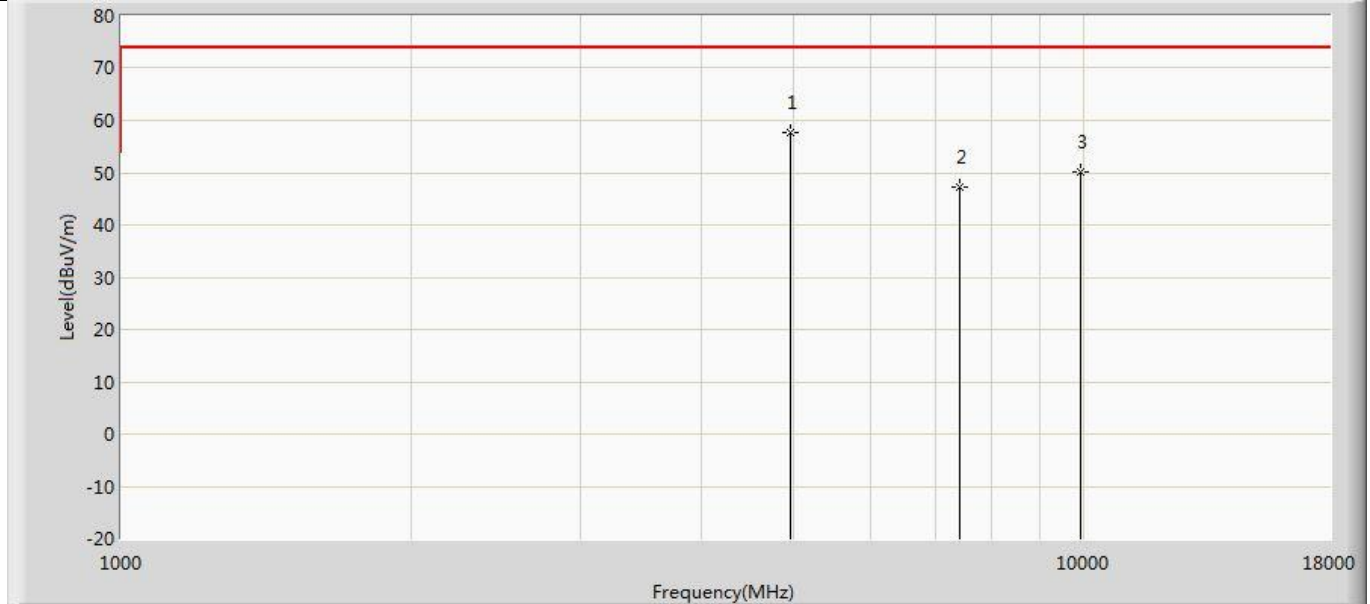
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	60.605	74.901	-13.395	74.000	-14.297	PK
2		7324.000	52.137	61.863	-21.863	74.000	-9.726	PK
3		9764.000	49.307	54.927	-24.693	74.000	-5.620	PK

Profile: 2340773R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



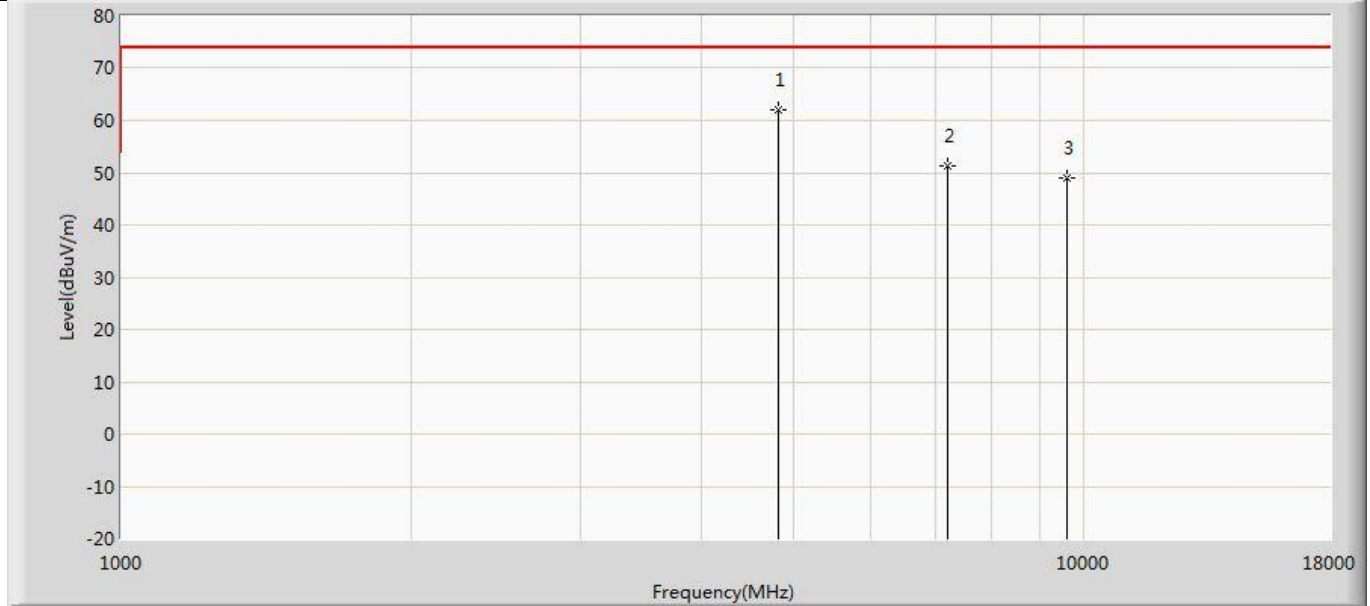
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	54.566	68.699	-19.434	74.000	-14.133	PK
2		7443.000	46.840	56.261	-27.160	74.000	-9.421	PK
3		9920.000	49.309	54.221	-24.691	74.000	-4.912	PK

Profile: 2340773R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



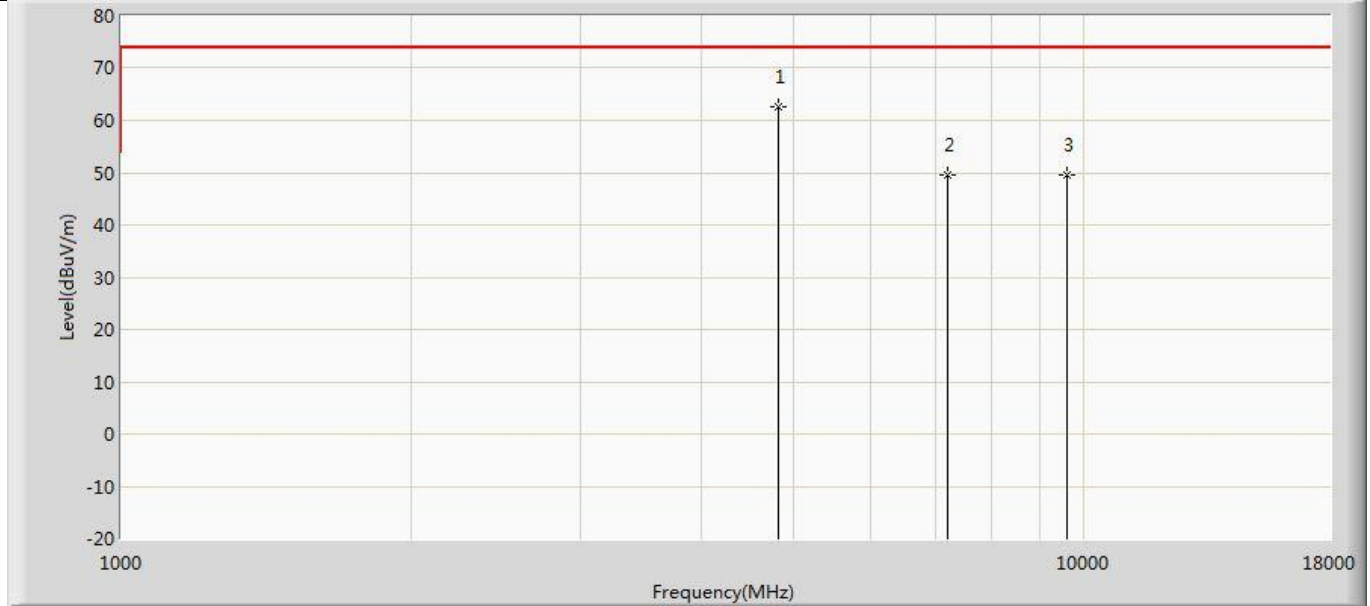
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	57.614	71.747	-16.386	74.000	-14.133	PK
2		7440.000	47.139	56.501	-26.861	74.000	-9.362	PK
3		9920.000	50.265	55.177	-23.735	74.000	-4.912	PK

Profile: 2340773R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



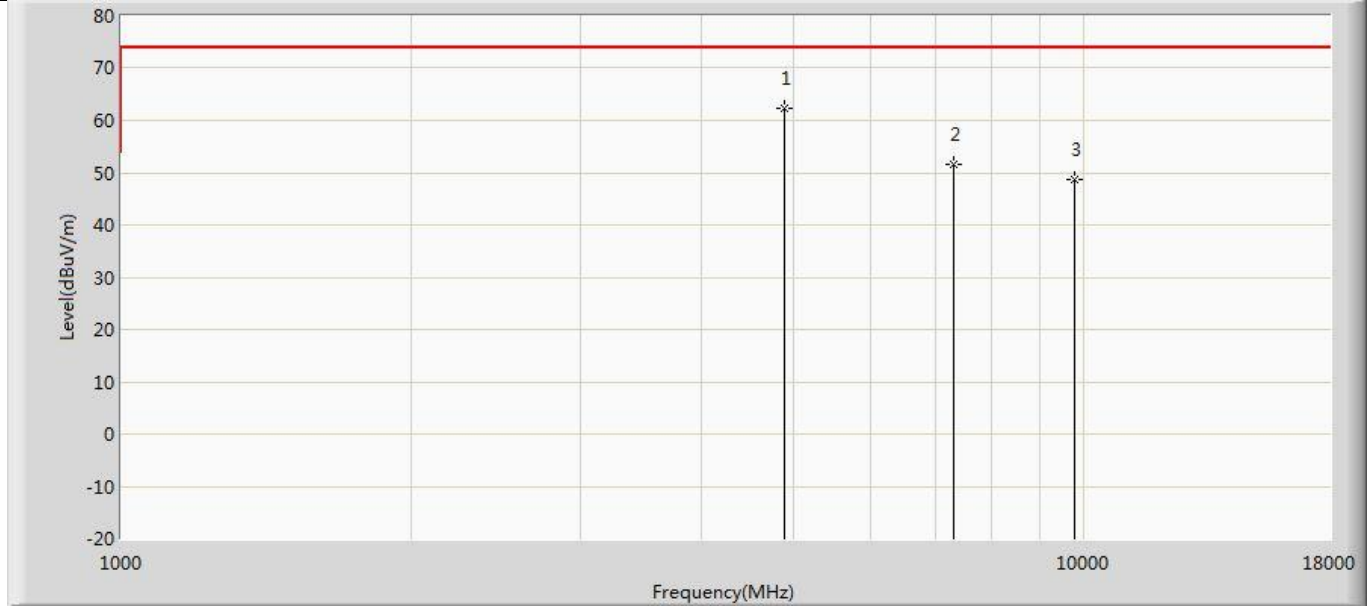
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	61.956	76.603	-12.044	74.000	-14.647	PK
2		7205.000	51.290	61.000	-22.710	74.000	-9.710	PK
3		9608.000	48.877	54.512	-25.123	74.000	-5.635	PK

Profile: 2340773R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	62.546	77.193	-11.454	74.000	-14.647	PK
2		7205.000	49.532	59.242	-24.468	74.000	-9.710	PK
3		9608.000	49.447	55.082	-24.553	74.000	-5.635	PK

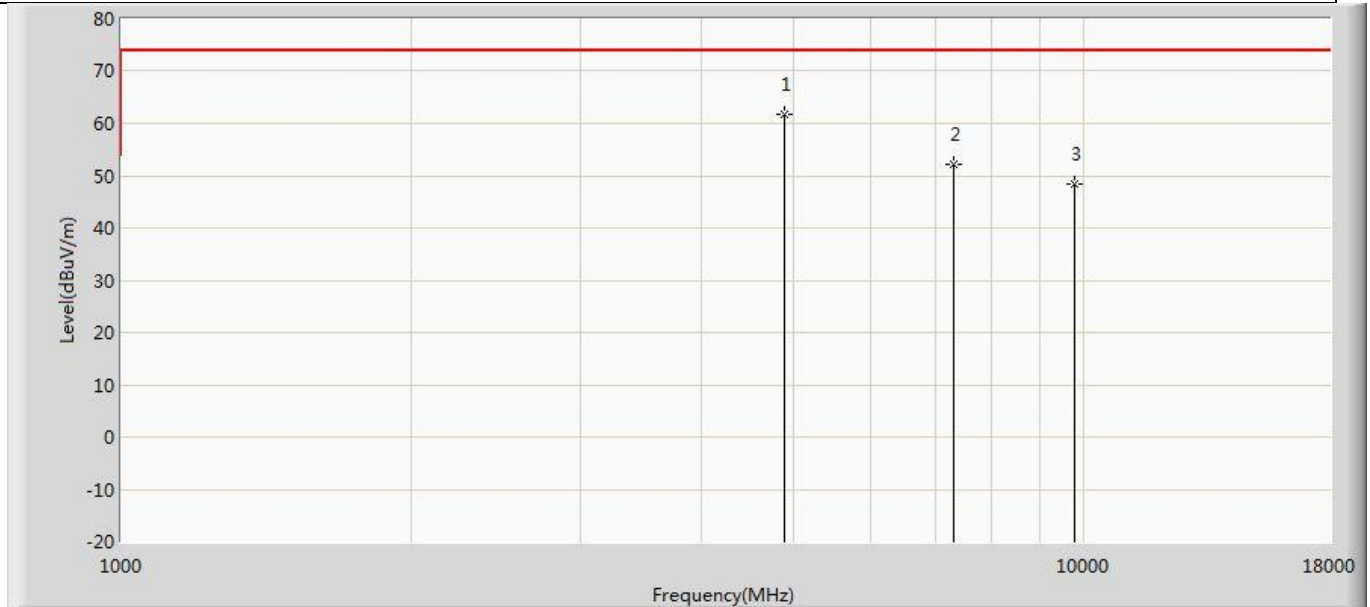
Profile: 2340773R	Page No.: 33
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2441MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	62.346	76.642	-11.654	74.000	-14.297	PK
2		7324.000	51.532	61.258	-22.468	74.000	-9.726	PK
3		9764.000	48.742	54.362	-25.258	74.000	-5.620	PK

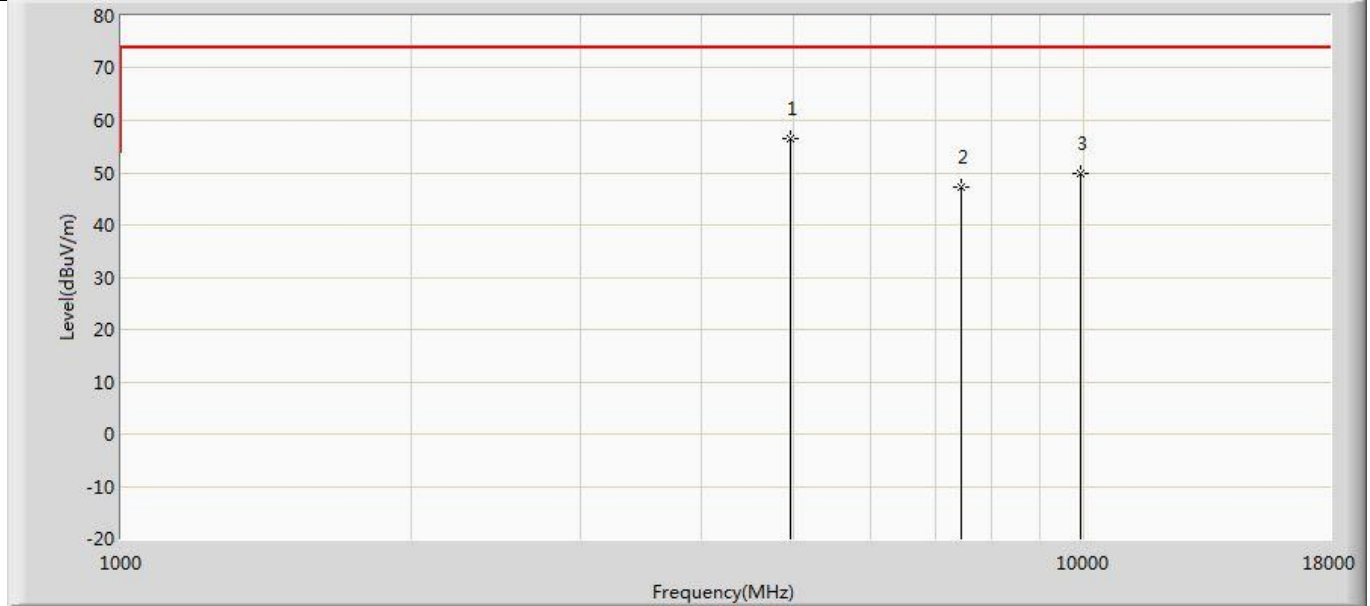


Profile: 2340773R	Page No.: 34
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2441MHz by 3DH5	



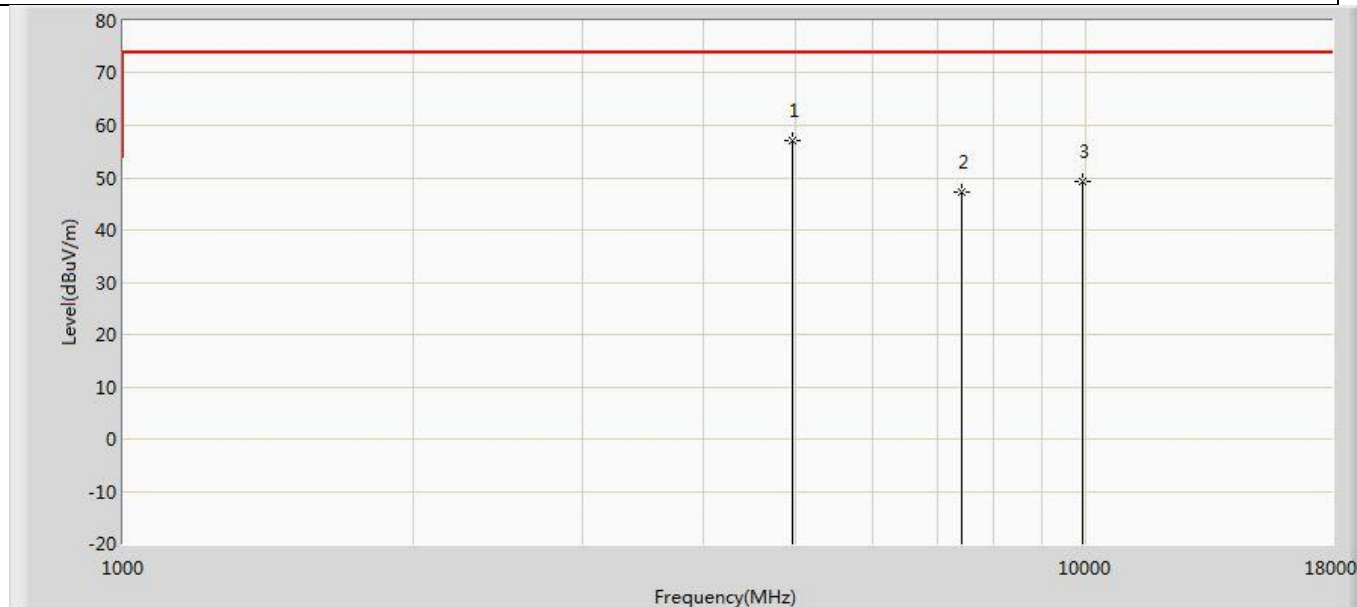
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	61.636	75.932	-12.364	74.000	-14.297	PK
2		7324.000	52.118	61.844	-21.882	74.000	-9.726	PK
3		9764.000	48.453	54.073	-25.547	74.000	-5.620	PK

Profile: 2340773R	Page No.: 35
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	56.493	70.626	-17.507	74.000	-14.133	PK
2		7443.000	47.312	56.733	-26.688	74.000	-9.421	PK
3		9920.000	49.805	54.717	-24.195	74.000	-4.912	PK

Profile: 2340773R	Page No.: 36
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



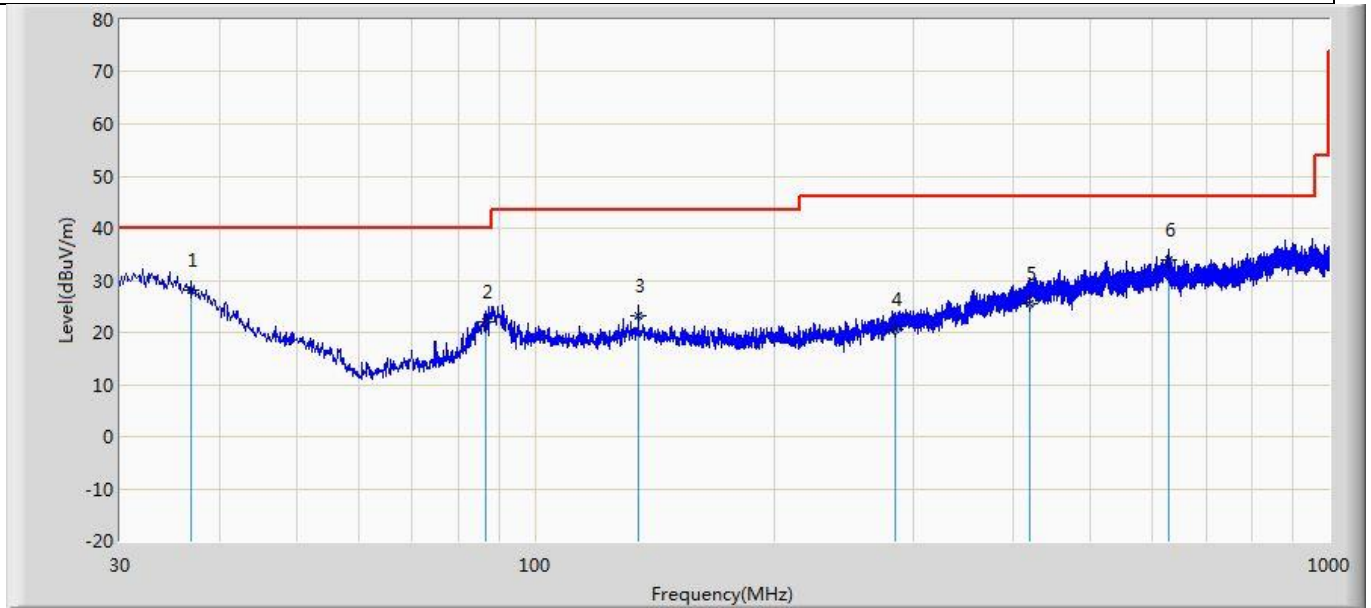
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	57.166	71.299	-16.834	74.000	-14.133	PK
2		7440.000	47.106	56.468	-26.894	74.000	-9.362	PK
3		9920.000	49.405	54.317	-24.595	74.000	-4.912	PK

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
3. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.
4. According to FCC15.35(c), a duty cycle correction factor is applied here. For HFSS mode, maximum duty cycle will be 1.27%, which is 37.9dB. Hence this margin could cover the highest spurious above.

**The worst case of Radiated Emission below 1GHz :**

Profile: 2340773R	Page No.: 183
Engineer: Yuliu	
Site: AC3	Time: 2023/05/17 - 02:41
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M (30-1000M)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	

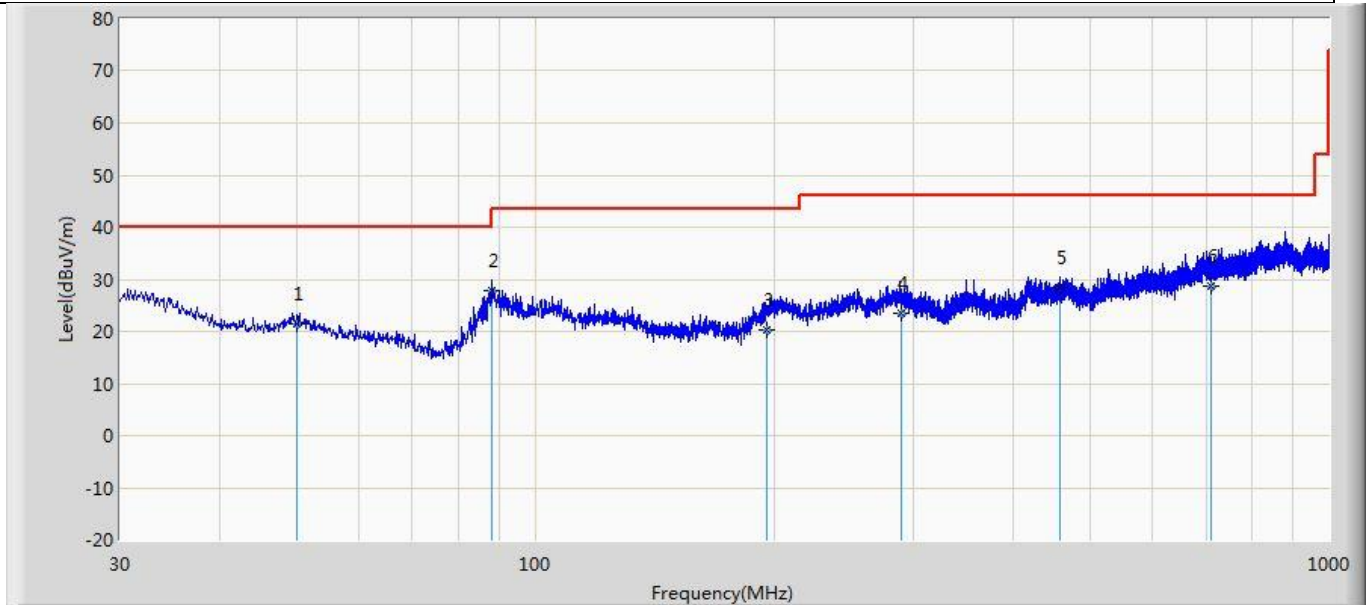


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		36.790	27.977	2.655	-12.023	40.000	25.322	QP
2		86.503	22.006	7.805	-17.994	40.000	14.201	QP
3		135.003	23.207	5.415	-20.293	43.500	17.792	QP
4		283.897	20.491	0.214	-25.509	46.000	20.277	QP
5		419.091	25.430	-1.503	-20.570	46.000	26.933	QP
6	*	628.005	34.012	3.649	-11.988	46.000	30.363	QP

**Note:**

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

Profile: 2340773R	Page No.: 184
Engineer: Yuliu	
Site: AC3	Time: 2023/05/17 - 02:45
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M (30-1000M)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.127	21.330	1.890	-18.670	40.000	19.440	QP
2	*	88.079	27.852	11.181	-15.648	43.500	16.671	QP
3		195.506	20.417	-1.888	-23.083	43.500	22.305	QP
4		288.626	23.469	-1.357	-22.531	46.000	24.826	QP
5		458.134	28.327	2.175	-17.673	46.000	26.152	QP
6		709.727	28.738	-1.517	-17.262	46.000	30.254	QP

Note:

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

The End