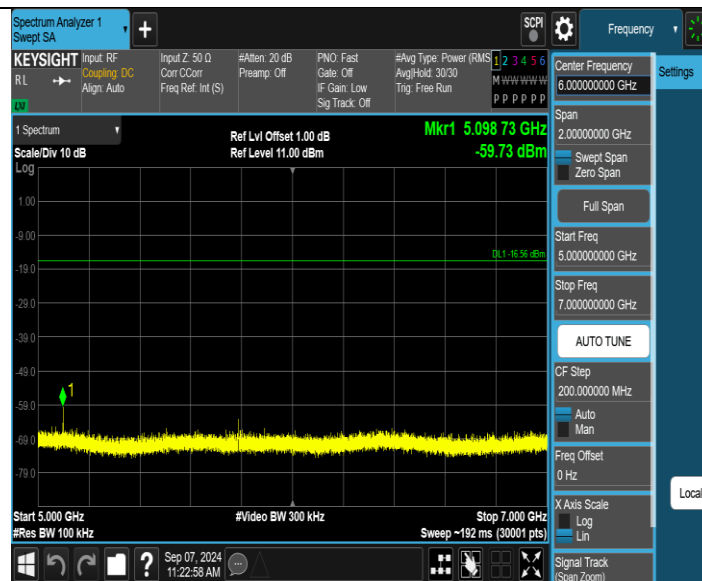
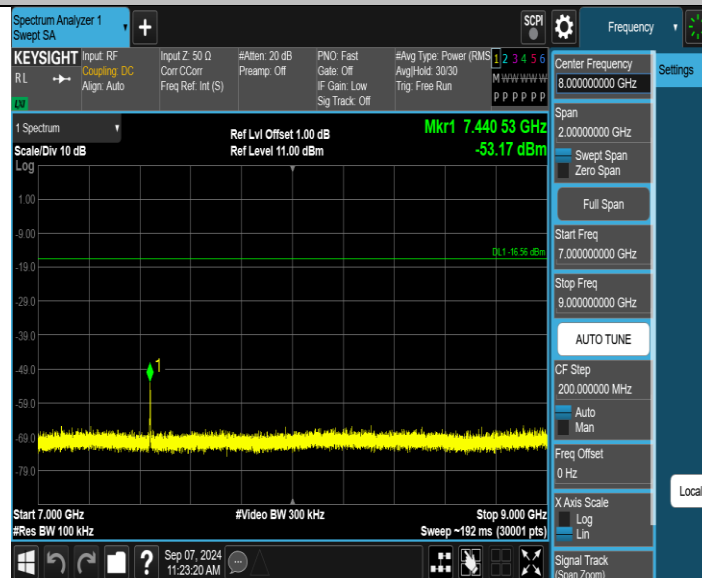
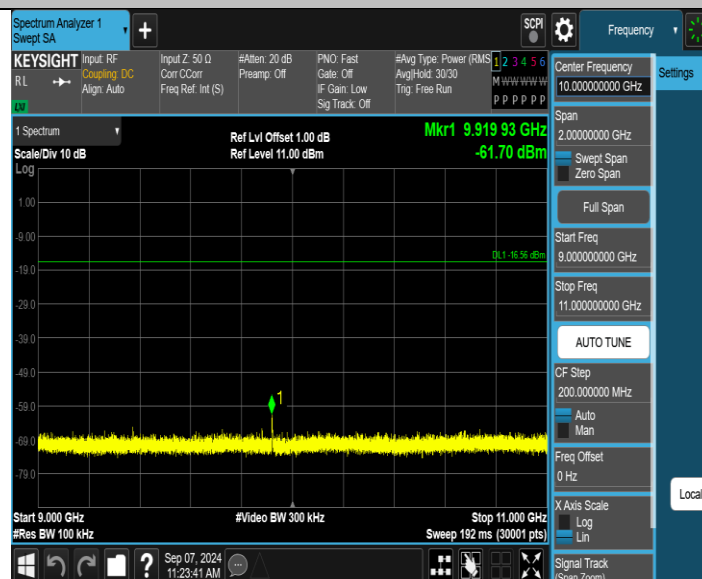




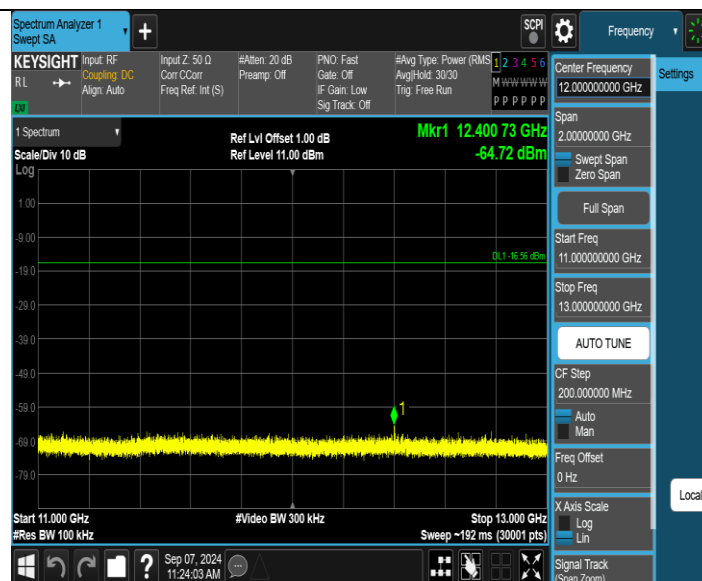
3DH5_Ant1_2480_7000~9000



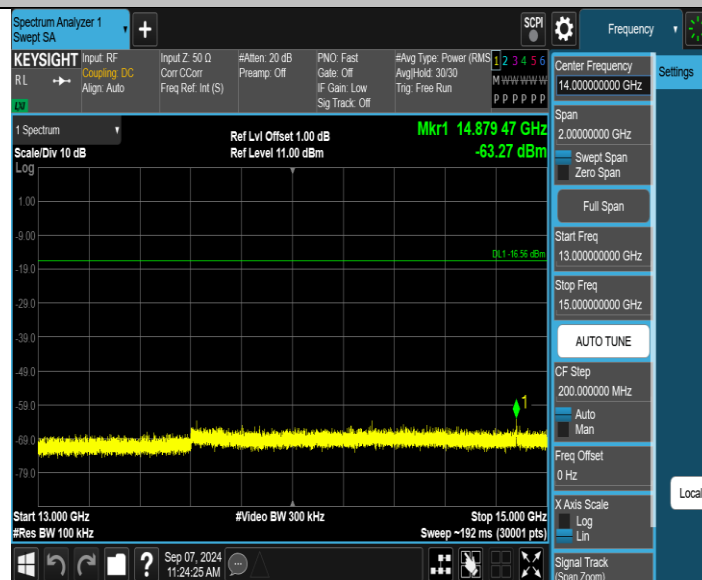
3DH5_Ant1_2480_9000~11000



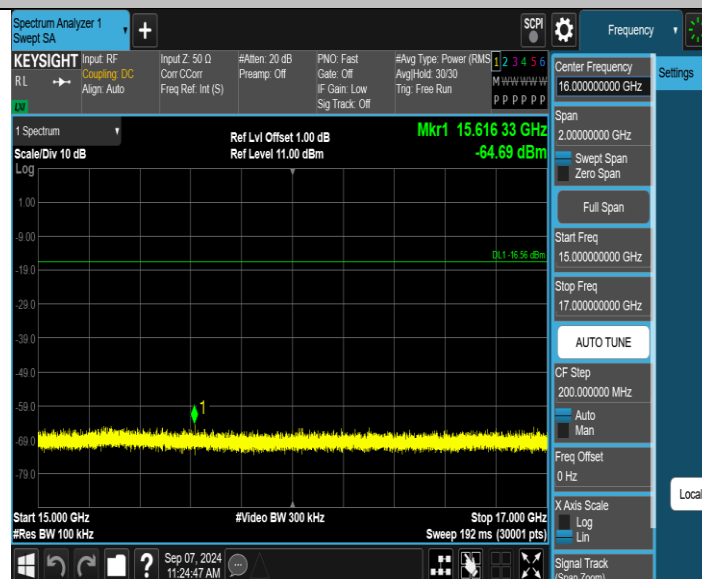
3DH5_Ant1_2480_11000~13000



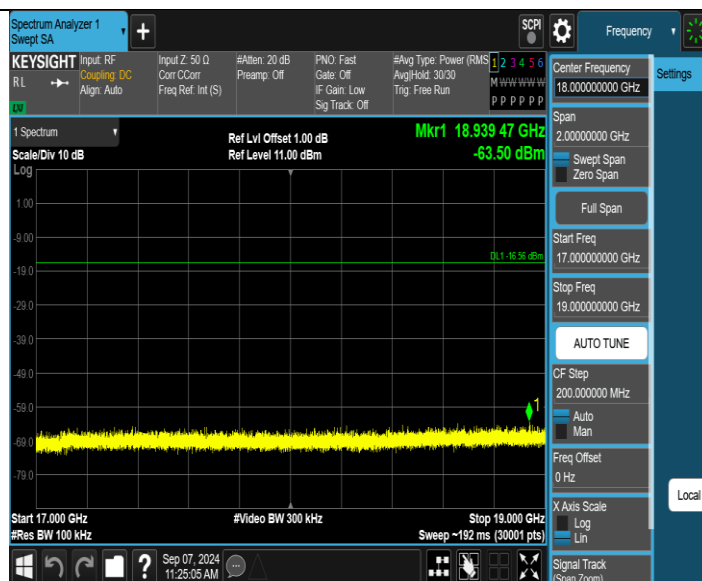
3DH5_Ant1_2480_13000~15000



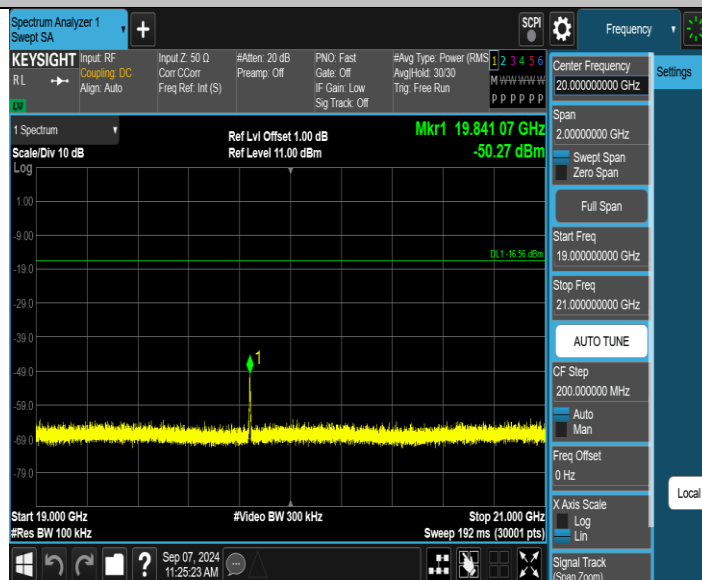
3DH5_Ant1_2480_15000~17000



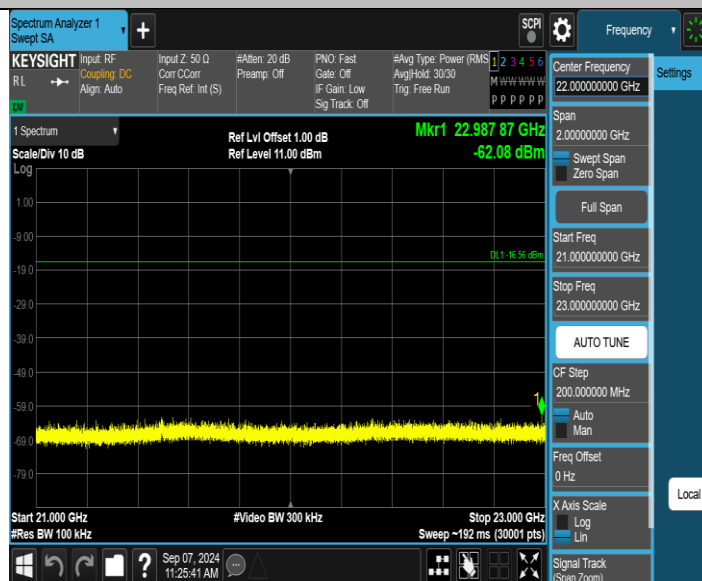
3DH5_Ant1_2480_17000~19000



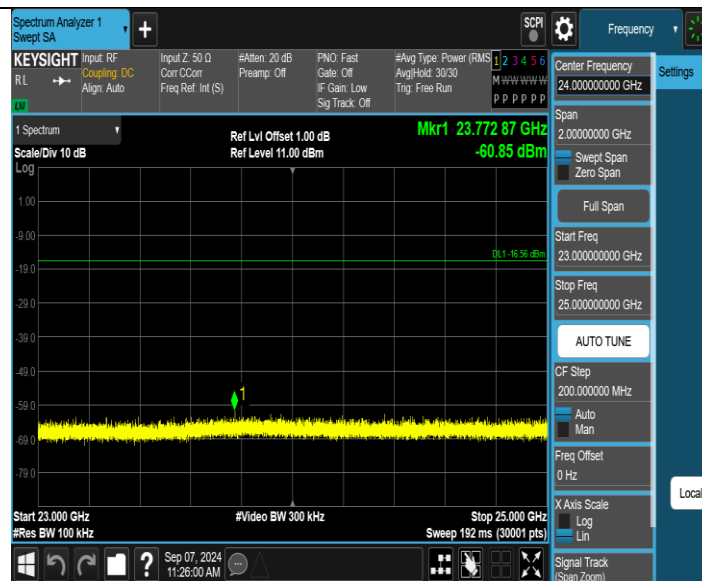
3DH5_Ant1_2480_19000~21000



3DH5_Ant1_2480_21000~23000



3DH5_Ant1_2480_23000~25000



Appendix I: Duty Cycle

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	0.00	0.00	100	NaN
		2441	0.00	0.00	100	NaN
		2480	0.00	0.00	100	NaN
2DH5	Ant1	2402	30.00	30.00	100.00	0.00
		2441	30.00	30.00	100.00	0.00
		2480	30.00	30.00	100.00	0.00
3DH5	Ant1	2402	30.00	30.00	100.00	0.00
		2441	30.00	30.00	100.00	0.00
		2480	30.00	30.00	100.00	0.00

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



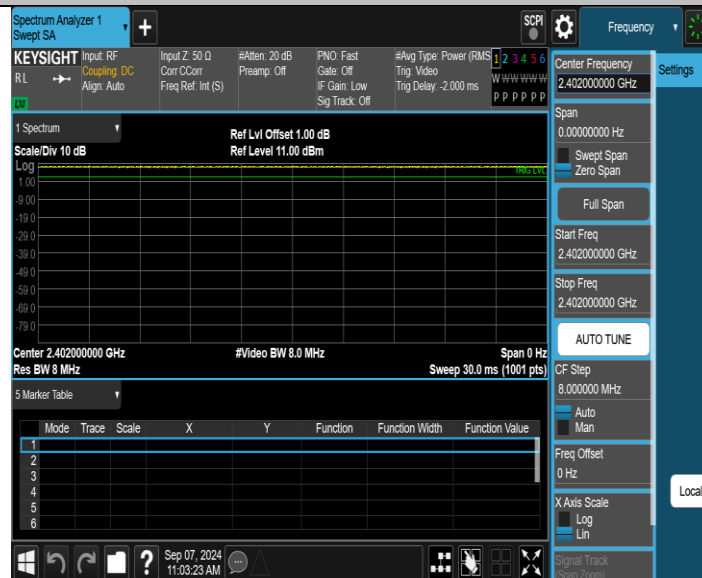
2DH5_Ant1_2441



2DH5_Ant1_2480



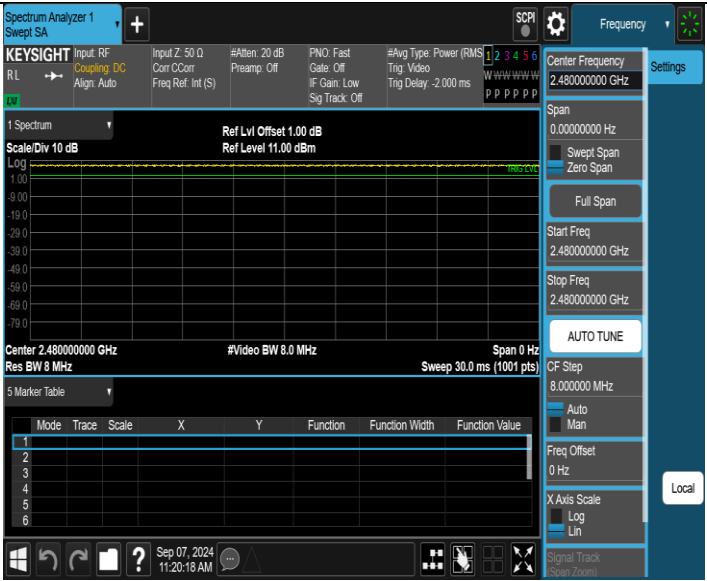
3DH5_Ant1_2402



3DH5_Ant1_2441

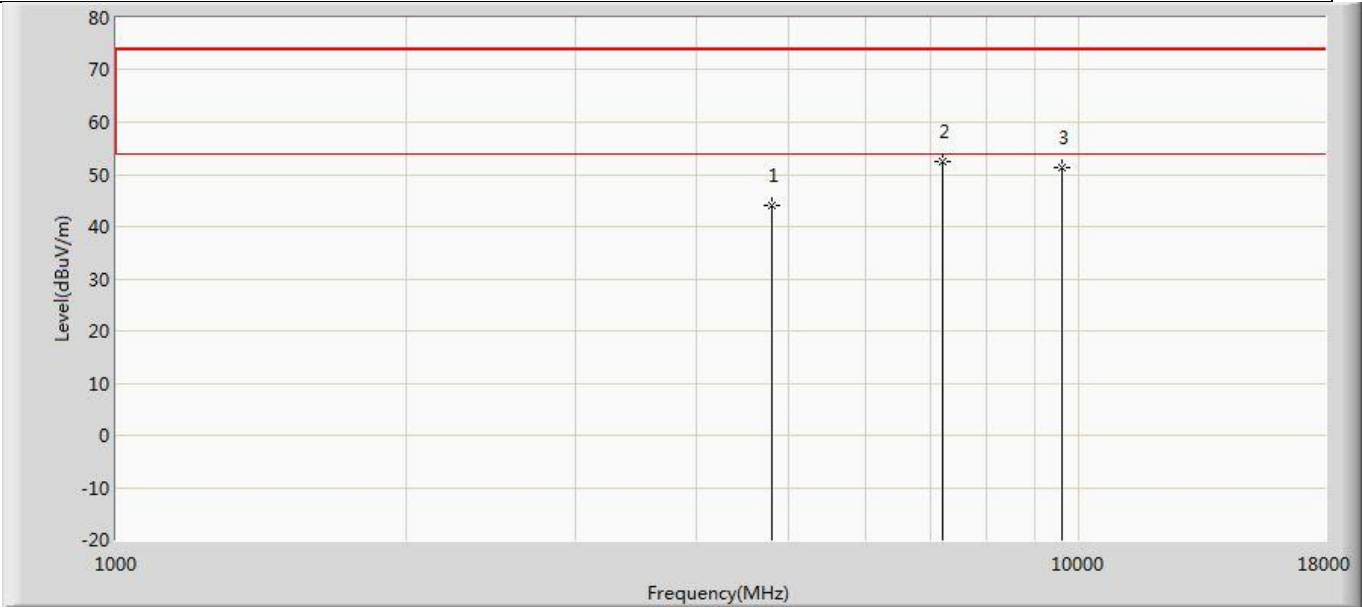


3DH5_Ant1_2480



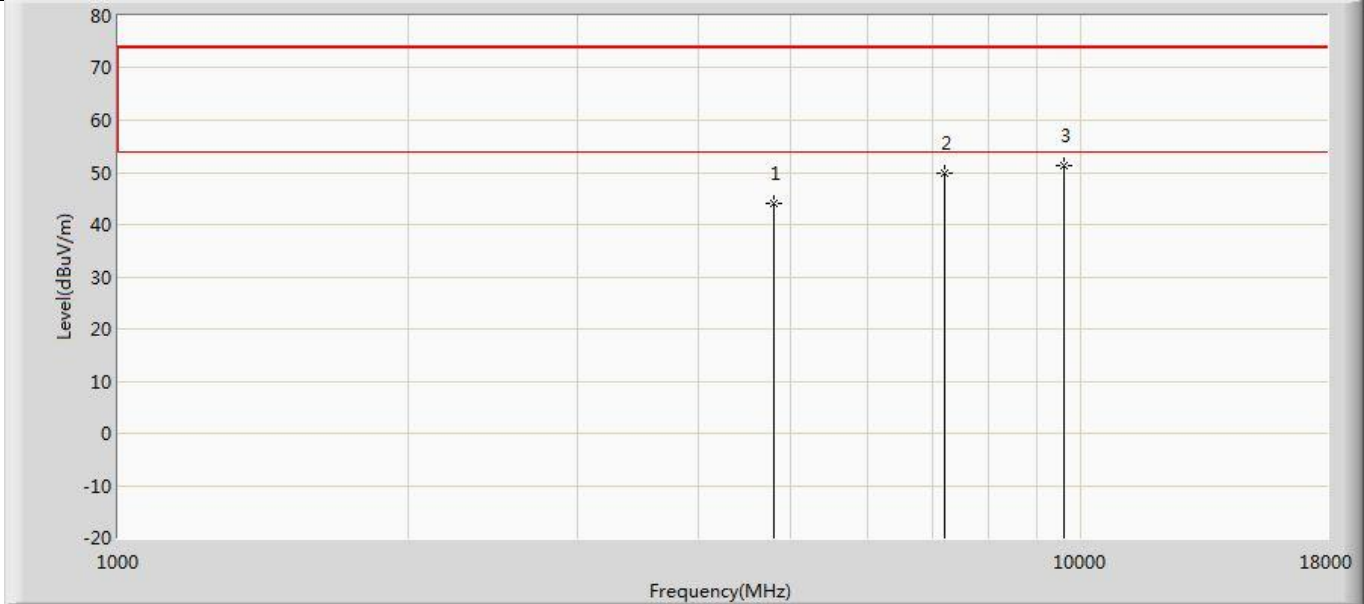
Appendix J: Emissions in Restricted Band

Profile: 2480841R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at 2402MHz by DH5	



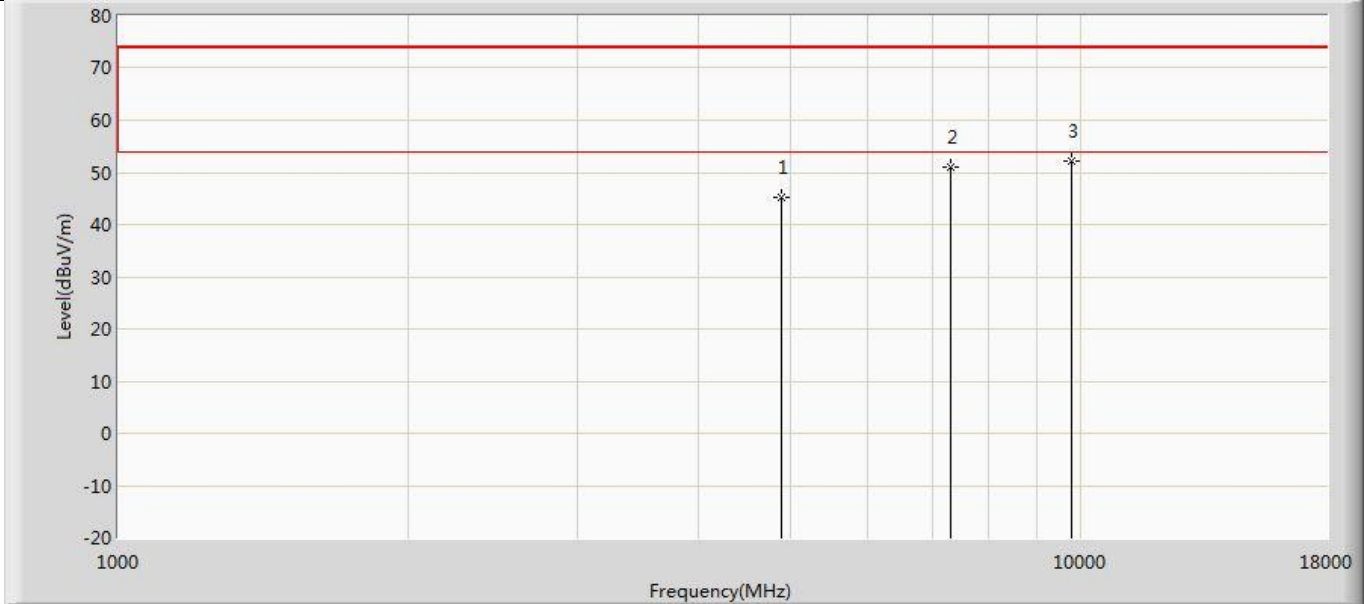
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	44.084	56.139	-29.916	74.000	-12.055	PK
2	*	7205.000	52.480	59.024	-21.520	74.000	-6.544	PK
3		9608.000	51.411	54.579	-22.589	74.000	-3.167	PK

Profile: 2480841R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at 2402MHz by DH5	



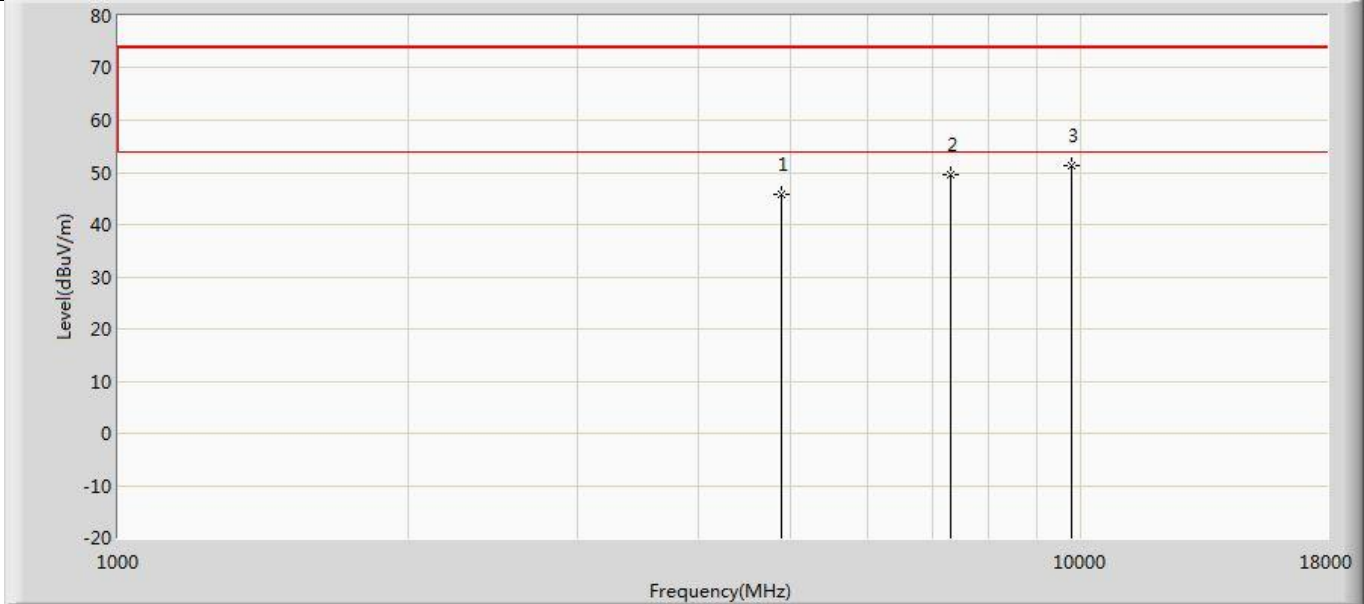
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	43.981	56.036	-30.019	74.000	-12.055	PK
2		7205.000	49.967	56.511	-24.033	74.000	-6.544	PK
3	*	9608.000	51.160	54.328	-22.840	74.000	-3.167	PK

Profile: 2480841R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at 2441MHz by DH5	



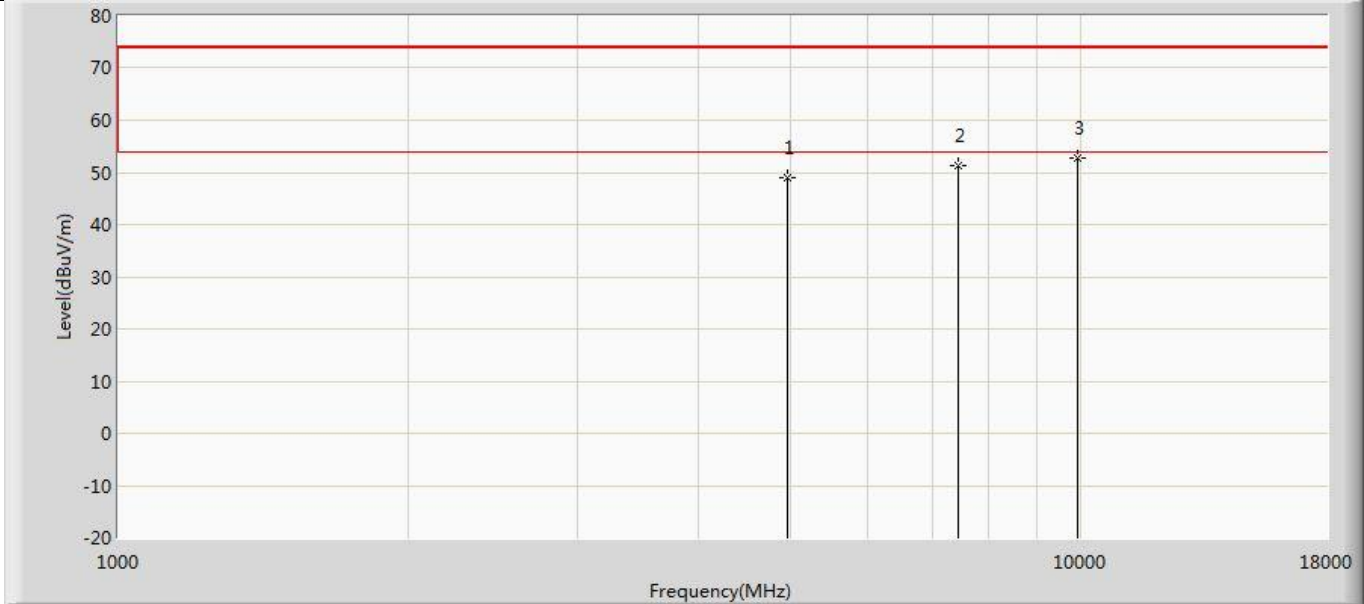
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	45.309	56.174	-28.691	74.000	-10.866	PK
2		7324.000	51.132	58.330	-22.868	74.000	-7.198	PK
3	*	9764.000	52.132	55.037	-21.868	74.000	-2.905	PK

Profile: 2480841R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
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		4882.000	45.657	56.522	-28.343	74.000	-10.866	PK
2		7324.000	49.531	56.729	-24.469	74.000	-7.198	PK
3	*	9764.000	51.326	54.231	-22.674	74.000	-2.905	PK

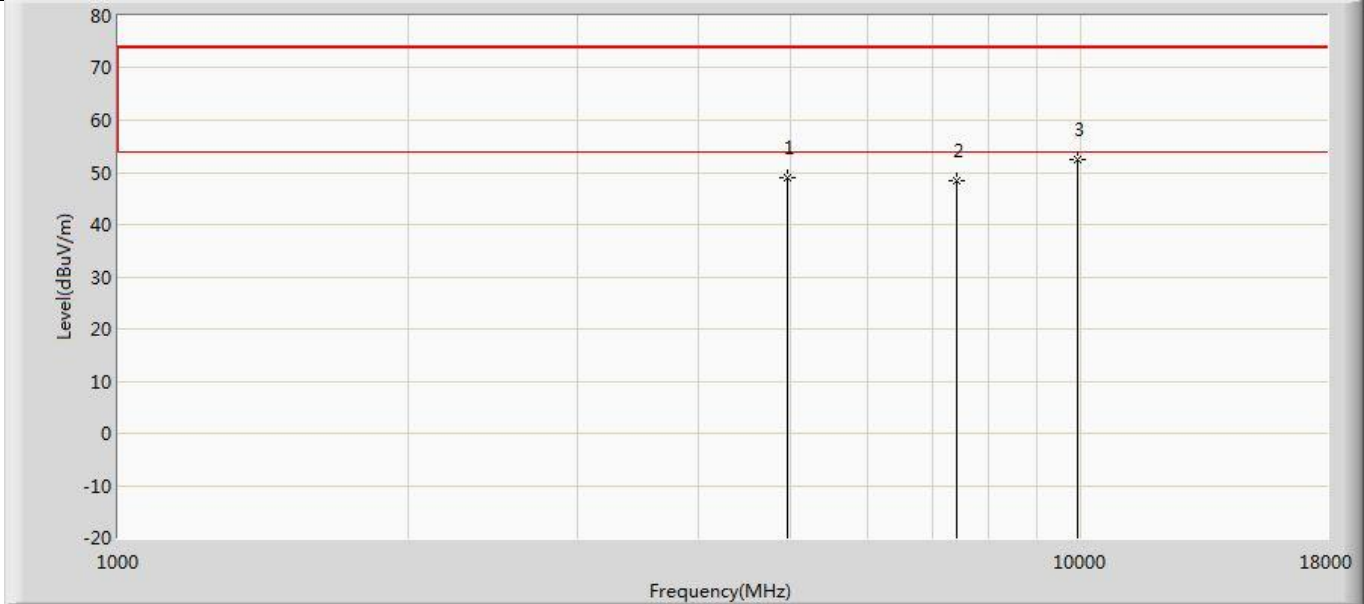
Profile: 2480841R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at 2480MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	48.984	59.836	-25.016	74.000	-10.852	PK
2		7443.000	51.212	58.300	-22.788	74.000	-7.088	PK
3	*	9920.000	52.820	54.685	-21.180	74.000	-1.865	PK

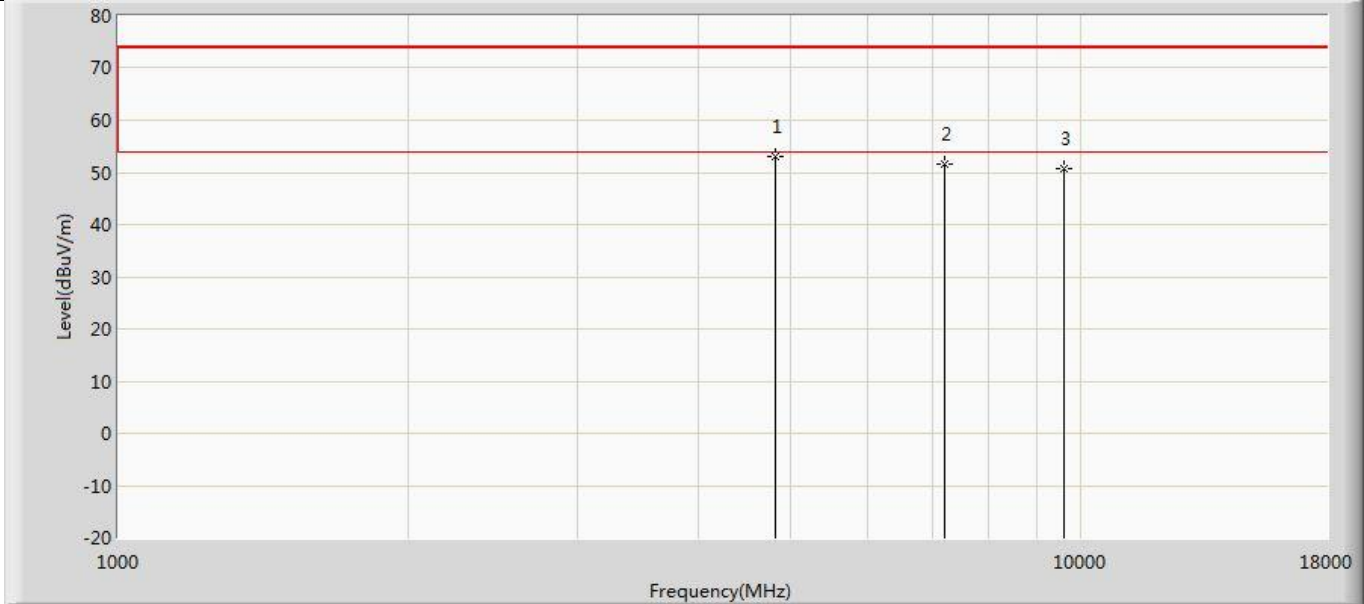


Profile: 2480841R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at 2480MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	48.902	59.754	-25.098	74.000	-10.852	PK
2		7440.000	48.438	55.548	-25.562	74.000	-7.110	PK
3	*	9920.000	52.373	54.238	-21.627	74.000	-1.865	PK

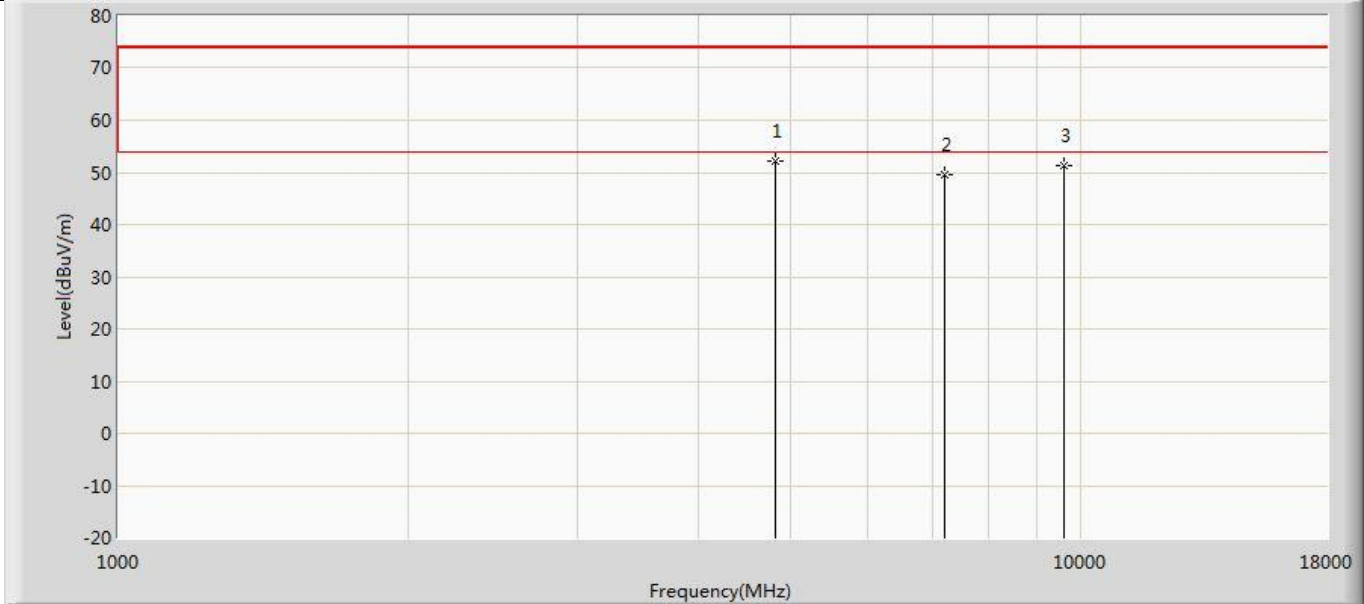
Profile: 2480841R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	53.073	65.106	-20.927	74.000	-12.033	PK
2		7205.000	51.691	58.235	-22.309	74.000	-6.544	PK
3		9608.000	50.801	53.969	-23.199	74.000	-3.167	PK



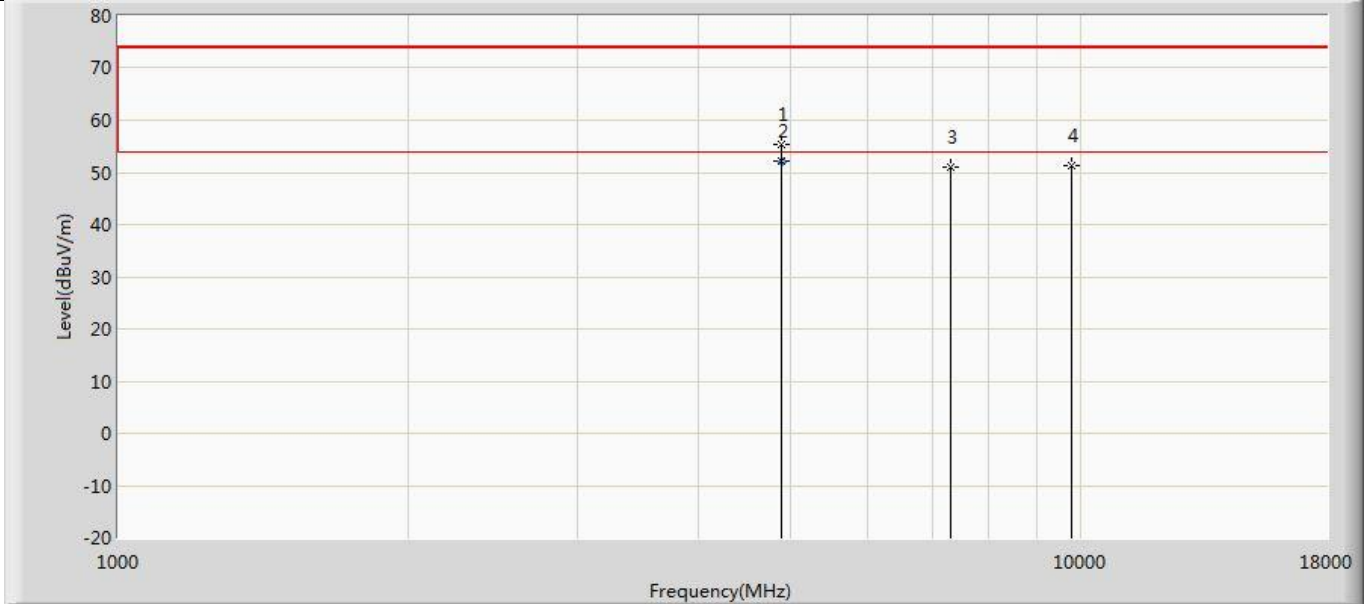
Profile: 2480841R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	52.141	64.174	-21.859	74.000	-12.033	PK
2		7205.000	49.432	55.976	-24.568	74.000	-6.544	PK
3		9608.000	51.285	54.453	-22.715	74.000	-3.167	PK



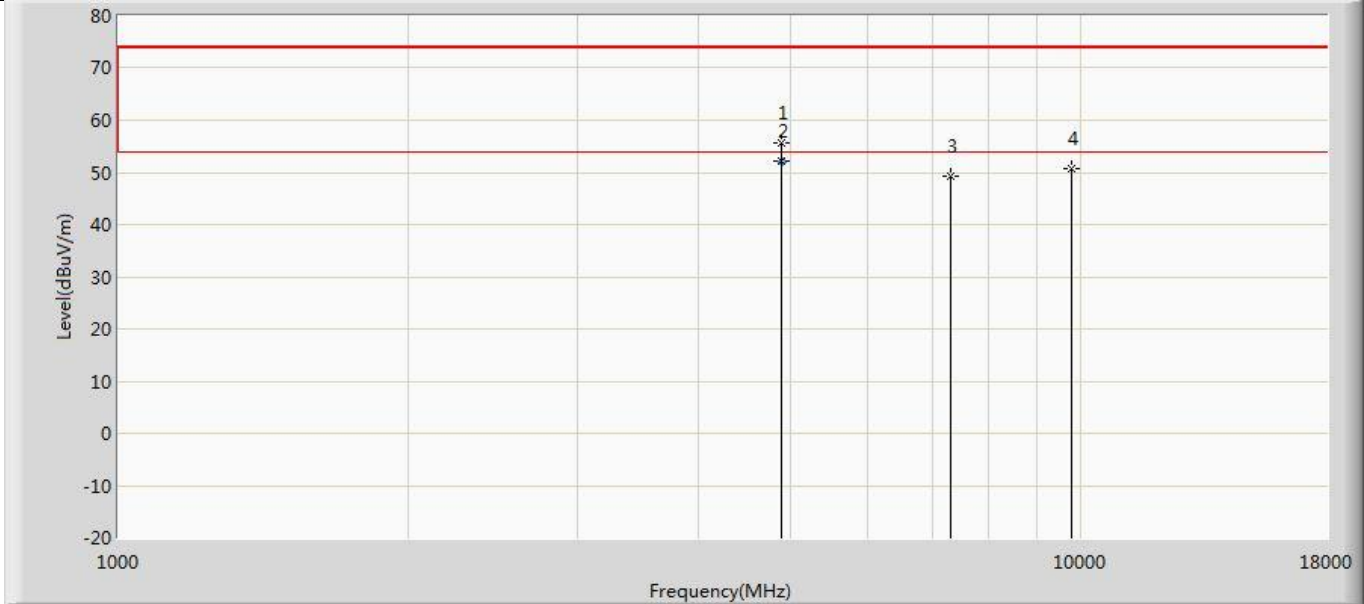
Profile: 2480841R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2441MHz by 2DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	55.339	65.939	-18.661	74.000	-10.600	PK
2	*	4882.000	52.139	63.004	-1.861	54.000	-10.866	AV
3		7324.000	51.132	58.330	-22.868	74.000	-7.198	PK
4		9764.000	51.309	54.214	-22.691	74.000	-2.905	PK

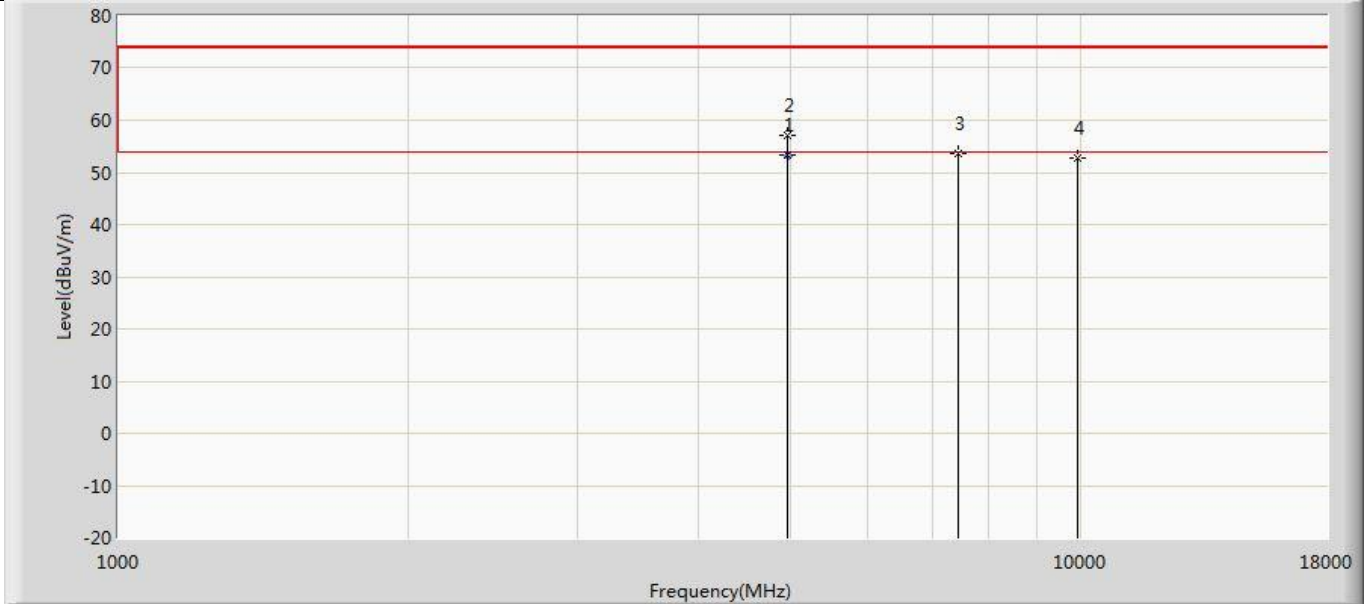


Profile: 2480841R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2441MHz by 2DH5	



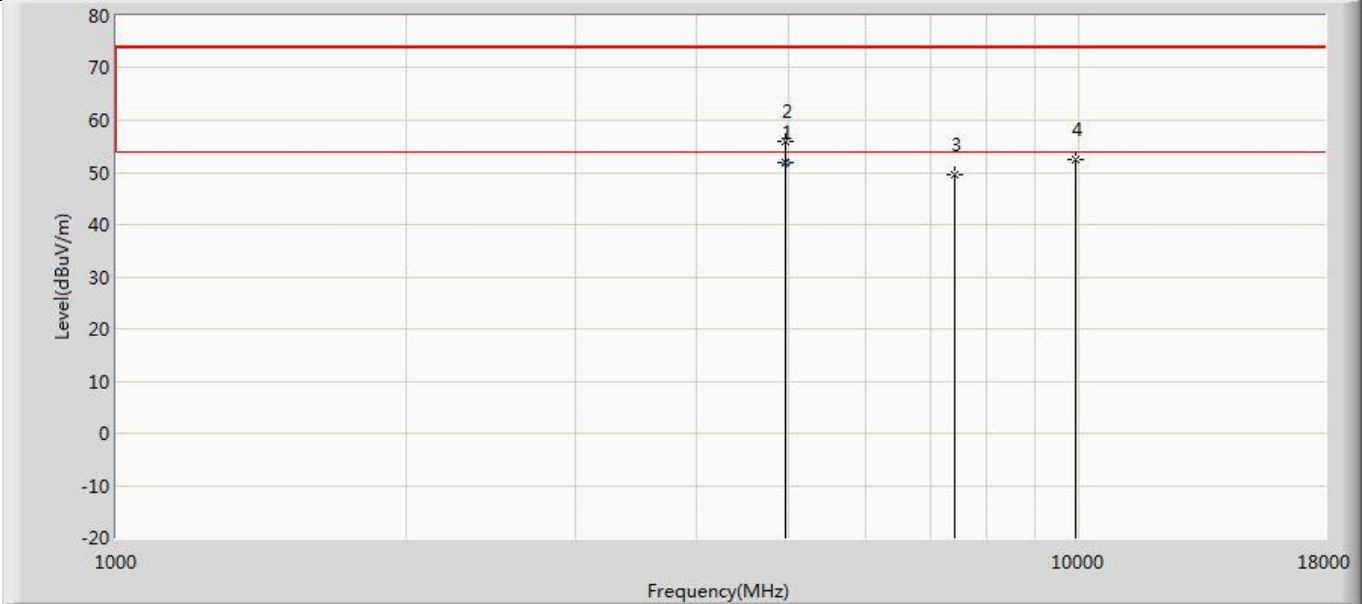
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	55.574	66.174	-18.426	74.000	-10.600	PK
2	*	4882.000	52.074	62.939	-1.926	54.000	-10.866	AV
3		7323.000	49.271	56.492	-24.729	74.000	-7.221	PK
4		9764.000	50.832	53.737	-23.168	74.000	-2.905	PK

Profile: 2480841R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
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	*	4960.000	53.189	64.076	-0.811	54.000	-10.888	AV
2		4961.000	57.016	67.868	-16.984	74.000	-10.852	PK
3		7443.000	53.612	60.700	-20.388	74.000	-7.088	PK
4		9920.000	52.647	54.512	-21.353	74.000	-1.865	PK

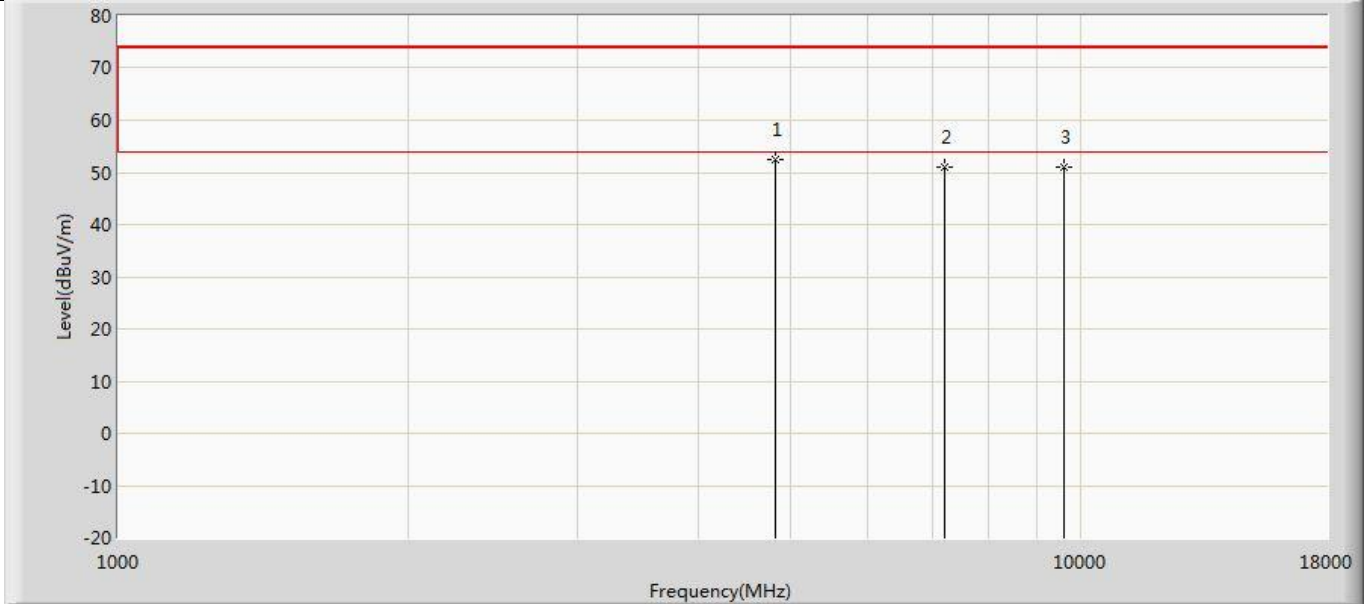
Profile: 2480841R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4960.000	51.923	62.810	-2.077	54.000	-10.888	AV
2		4961.000	55.945	66.797	-18.055	74.000	-10.852	PK
3		7440.000	49.548	56.658	-24.452	74.000	-7.110	PK
4		9920.000	52.442	54.307	-21.558	74.000	-1.865	PK



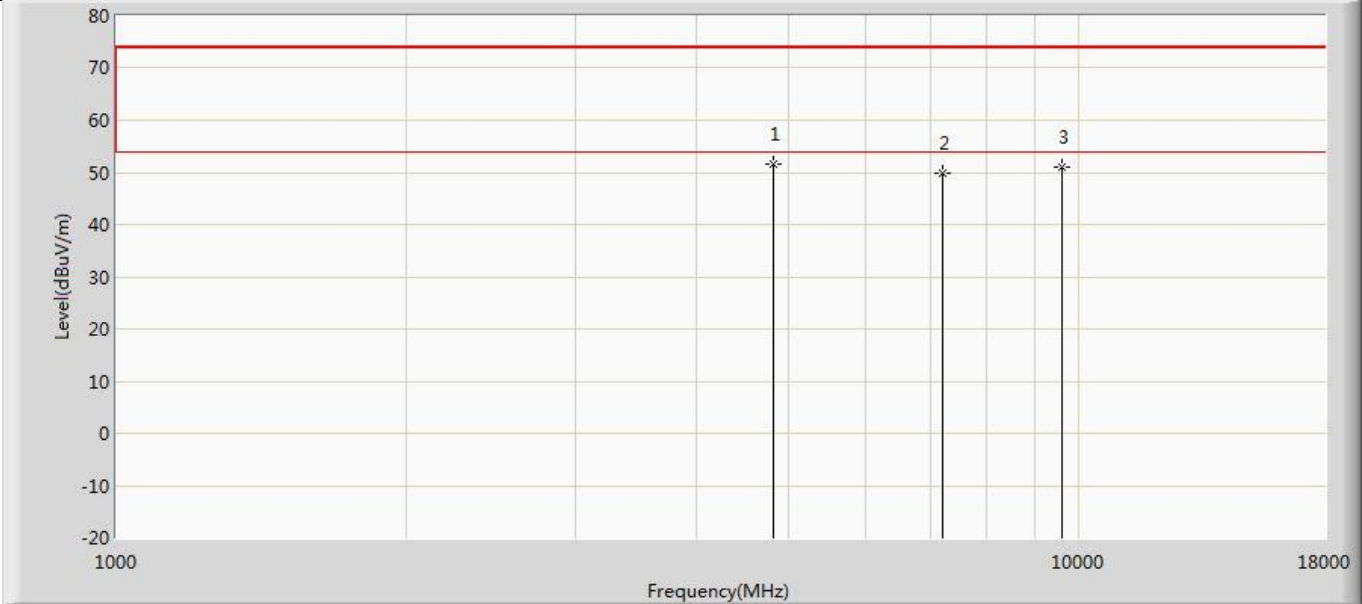
Profile: 2480841R	Page No.: 37
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	52.607	64.640	-21.393	74.000	-12.033	PK
2		7205.000	51.129	57.673	-22.871	74.000	-6.544	PK
3		9608.000	50.936	54.104	-23.064	74.000	-3.167	PK



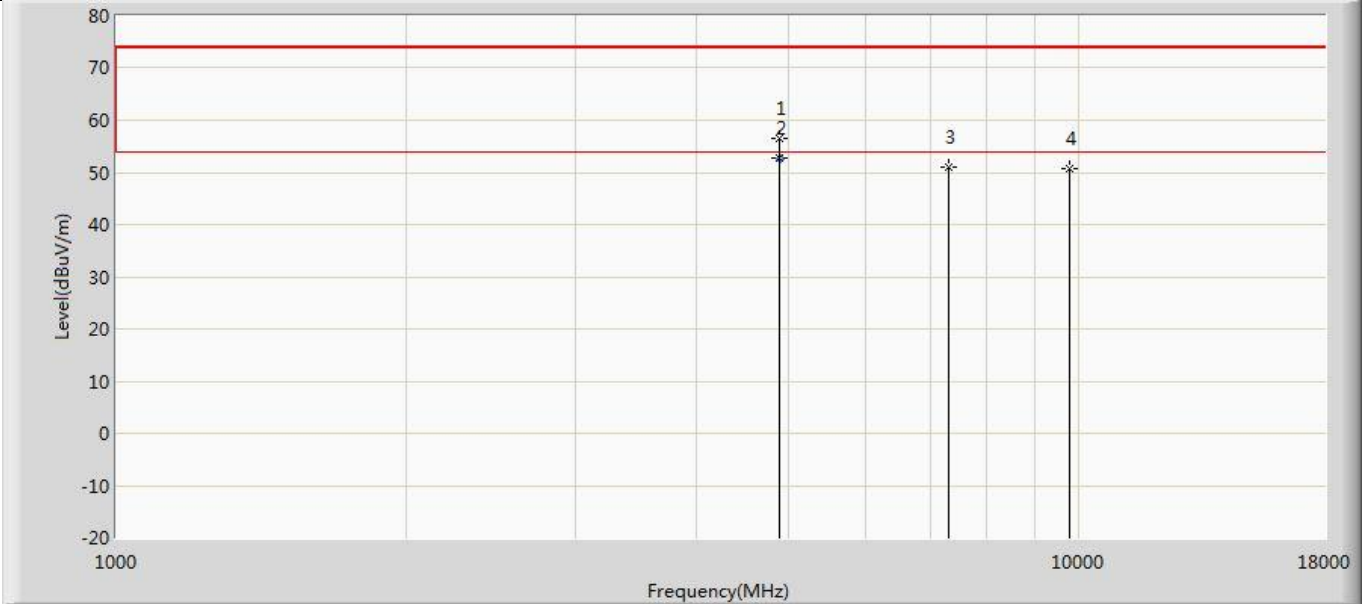
Profile: 2480841R	Page No.: 38
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	51.539	63.572	-22.461	74.000	-12.033	PK
2		7205.000	49.988	56.532	-24.012	74.000	-6.544	PK
3		9608.000	51.074	54.242	-22.926	74.000	-3.167	PK

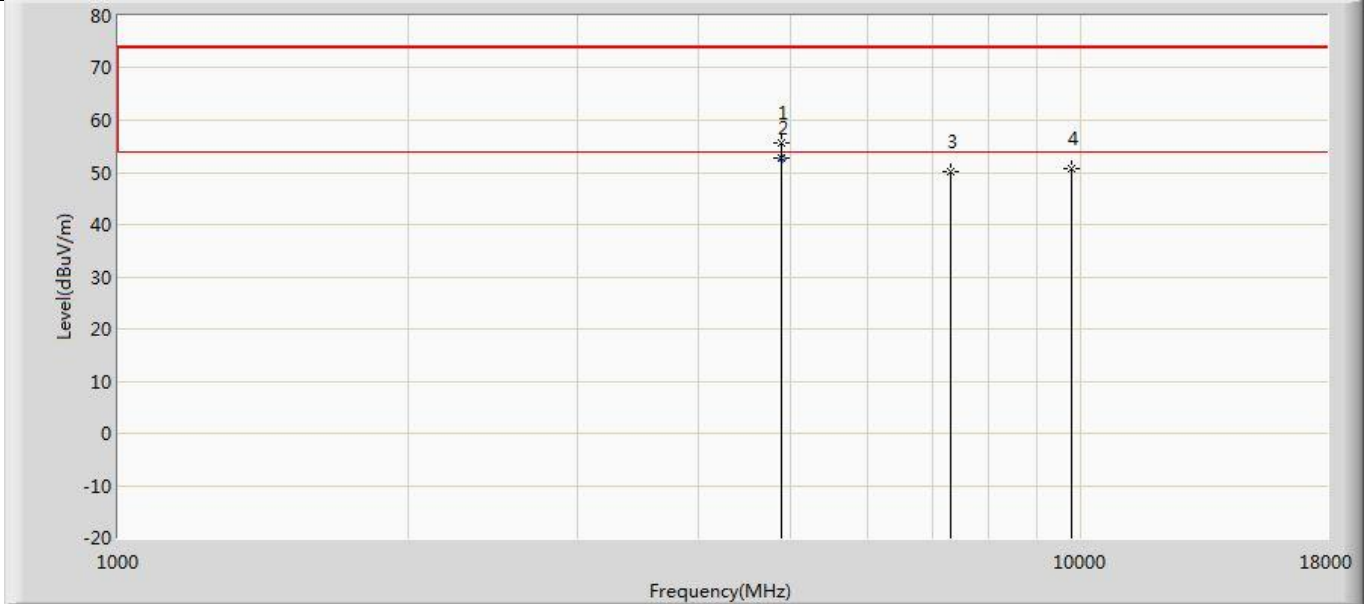


Profile: 2480841R	Page No.: 39
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2441MHz by 3DH5	



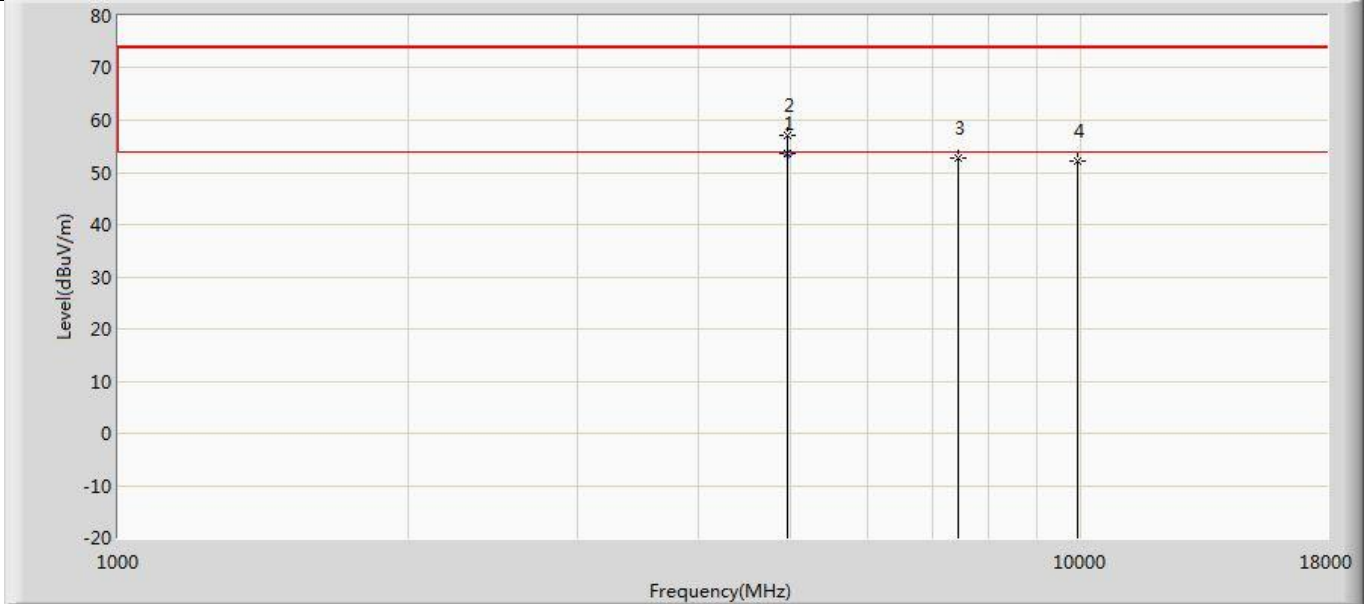
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	56.656	67.256	-17.344	74.000	-10.600	PK
2	*	4882.000	52.697	63.562	-1.303	54.000	-10.866	AV
3		7324.000	51.134	58.332	-22.866	74.000	-7.198	PK
4		9764.000	50.783	53.688	-23.217	74.000	-2.905	PK

Profile: 2480841R	Page No.: 40
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2441MHz by 3DH5	



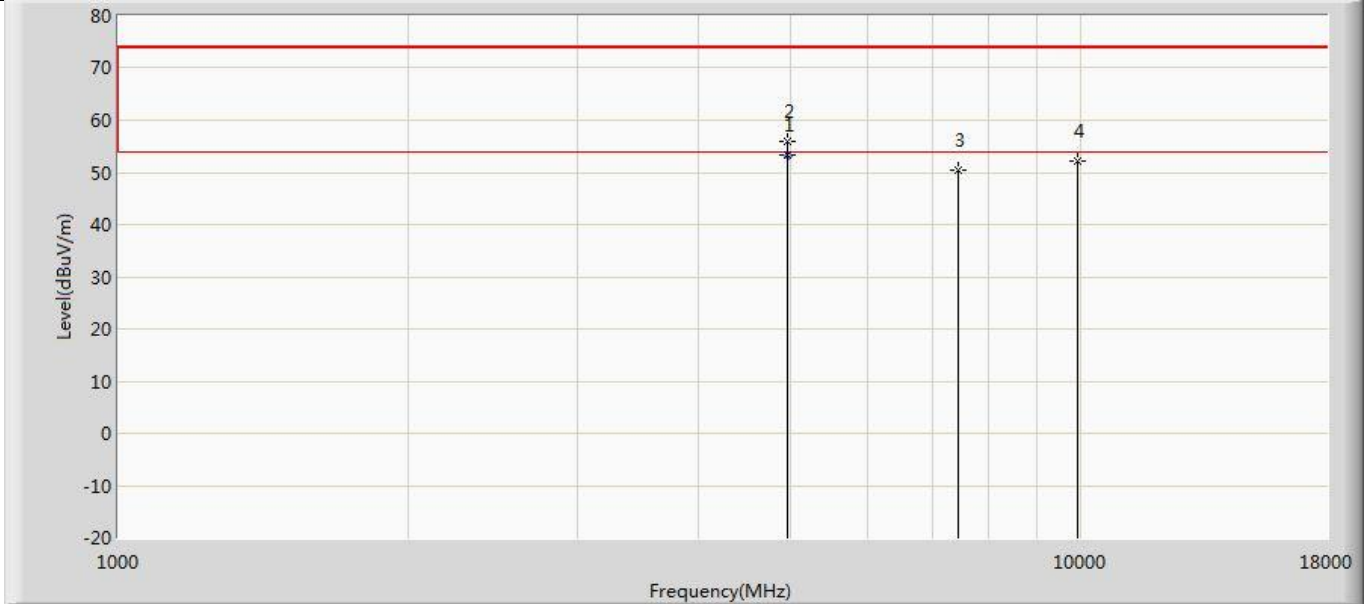
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	55.768	66.368	-18.232	74.000	-10.600	PK
2	*	4882.000	52.746	63.611	-1.254	54.000	-10.866	AV
3		7324.000	50.056	57.254	-23.944	74.000	-7.198	PK
4		9764.000	50.783	53.688	-23.217	74.000	-2.905	PK

Profile: 2480841R	Page No.: 41
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
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	*	4960.000	53.741	64.628	-0.259	54.000	-10.888	AV
2		4961.000	57.091	67.943	-16.909	74.000	-10.852	PK
3		7443.000	52.656	59.744	-21.344	74.000	-7.088	PK
4		9920.000	52.283	54.148	-21.717	74.000	-1.865	PK

Profile: 2480841R	Page No.: 42
Engineer: Yu Liu	
Site: AC5	Time: 2024/09/10 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



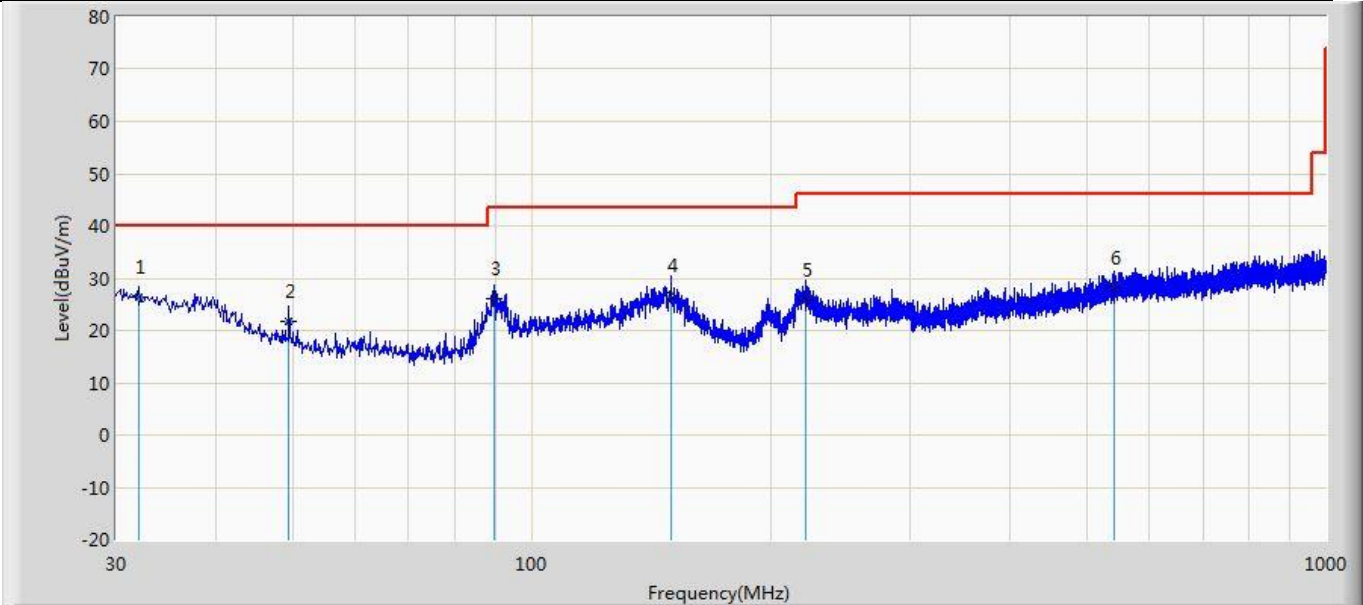
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4960.000	53.253	64.140	-0.747	54.000	-10.888	AV
2		4961.000	55.880	66.732	-18.120	74.000	-10.852	PK
3		7443.000	50.336	57.424	-23.664	74.000	-7.088	PK
4		9920.000	52.030	53.895	-21.970	74.000	-1.865	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. If the test result on peak is lower than average limit, then average measurement needn't be performed.

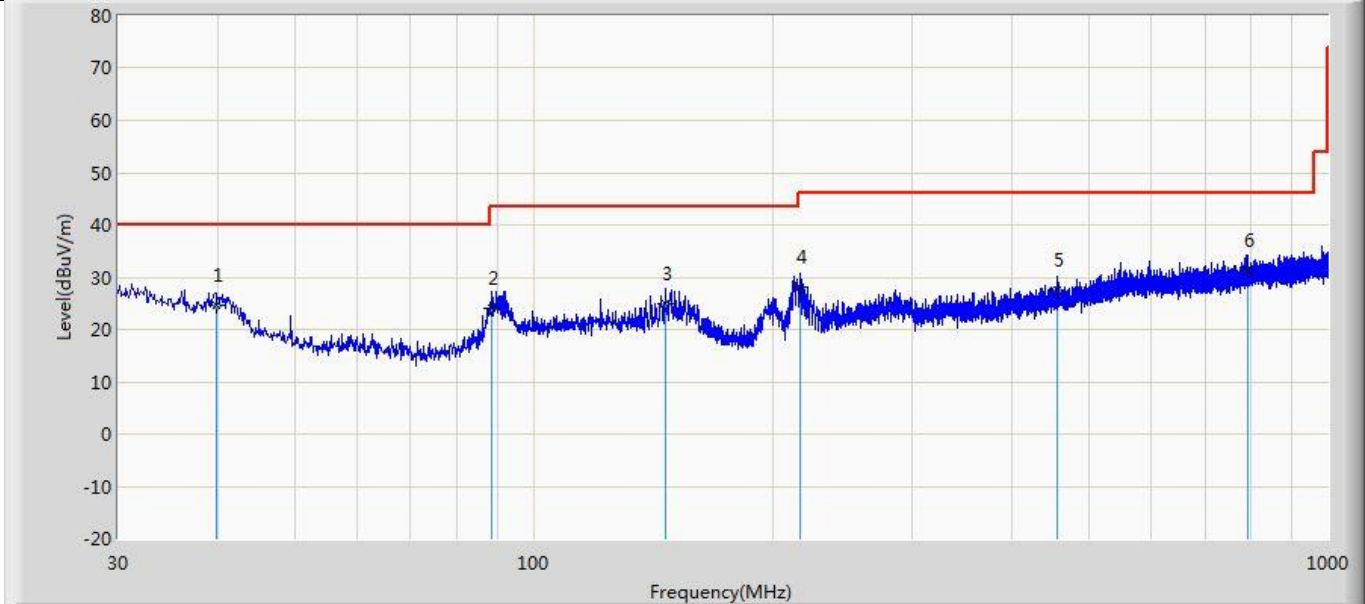
The worst case of Radiated Emission below 1GHz :

Profile: 2480841R	Page No.: 1
Engineer: Yu Liu	
Site: AC2	Time: 2024/09/06 - 20:51
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.061	26.287	2.354	-13.713	40.000	23.933	QP
2		49.521	21.711	6.622	-18.289	40.000	15.089	QP
3		89.897	26.220	10.355	-17.280	43.500	15.864	QP
4		149.916	26.788	9.358	-16.712	43.500	17.430	QP
5		221.696	25.727	9.016	-20.273	46.000	16.711	QP
6		541.311	28.231	1.365	-17.769	46.000	26.865	QP

Profile: 2480841R	Page No.: 2
Engineer: Yu Liu	
Site: AC2	Time: 2024/09/06 - 20:51
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		39.821	24.639	4.967	-15.361	40.000	19.672	QP
2		88.442	24.045	8.517	-19.455	43.500	15.528	QP
3		146.764	24.852	7.154	-18.648	43.500	17.699	QP
4		216.725	28.168	11.689	-17.832	46.000	16.480	QP
5		455.345	27.400	2.661	-18.600	46.000	24.739	QP
6	*	792.662	31.288	2.009	-14.712	46.000	29.279	QP

Note:

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

The End