



Report No:060140_rev.02
FCC ID: TN5DP0200SZ
IC : 6132A-DP0200SZ

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 13.8 VDC Typical Modulation 88.1 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dB μ V/m

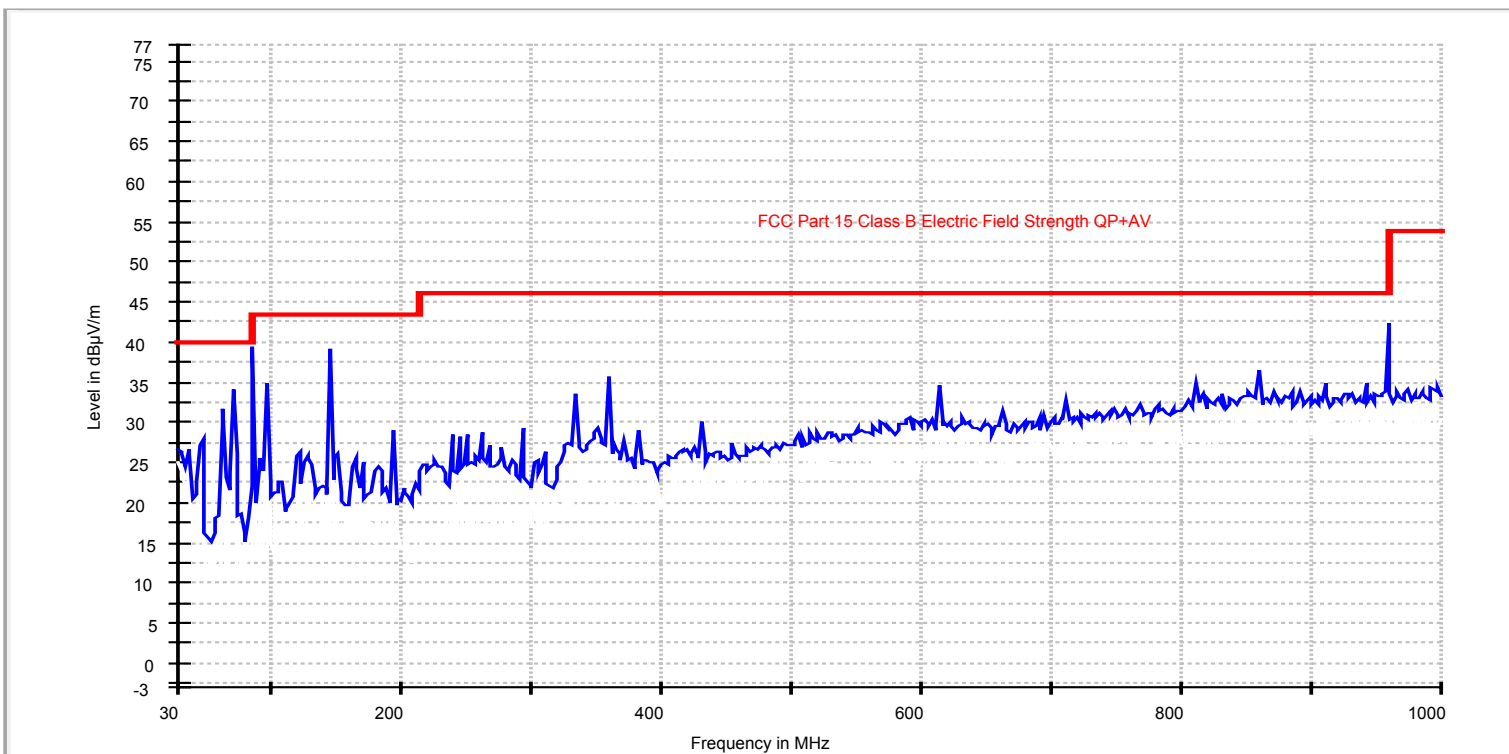
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
7. F is fundamental.
8. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

(MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
73.653307	23.6	27.1	40.0	-16.4	Y	139.0	375.0	H	PASS
98.236473	31.2	36.6	43.5	-12.3	Y	57.0	209.0	H	PASS
147.333667	39.1	40.5	43.5	-4.4	Y	129.0	309.0	H	PASS
957.919840	40.8	45.6	46.0	-5.2	Y	51.0	155.0	H	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 13.8 VDC Typical Modulation 88.1 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dB μ V/m

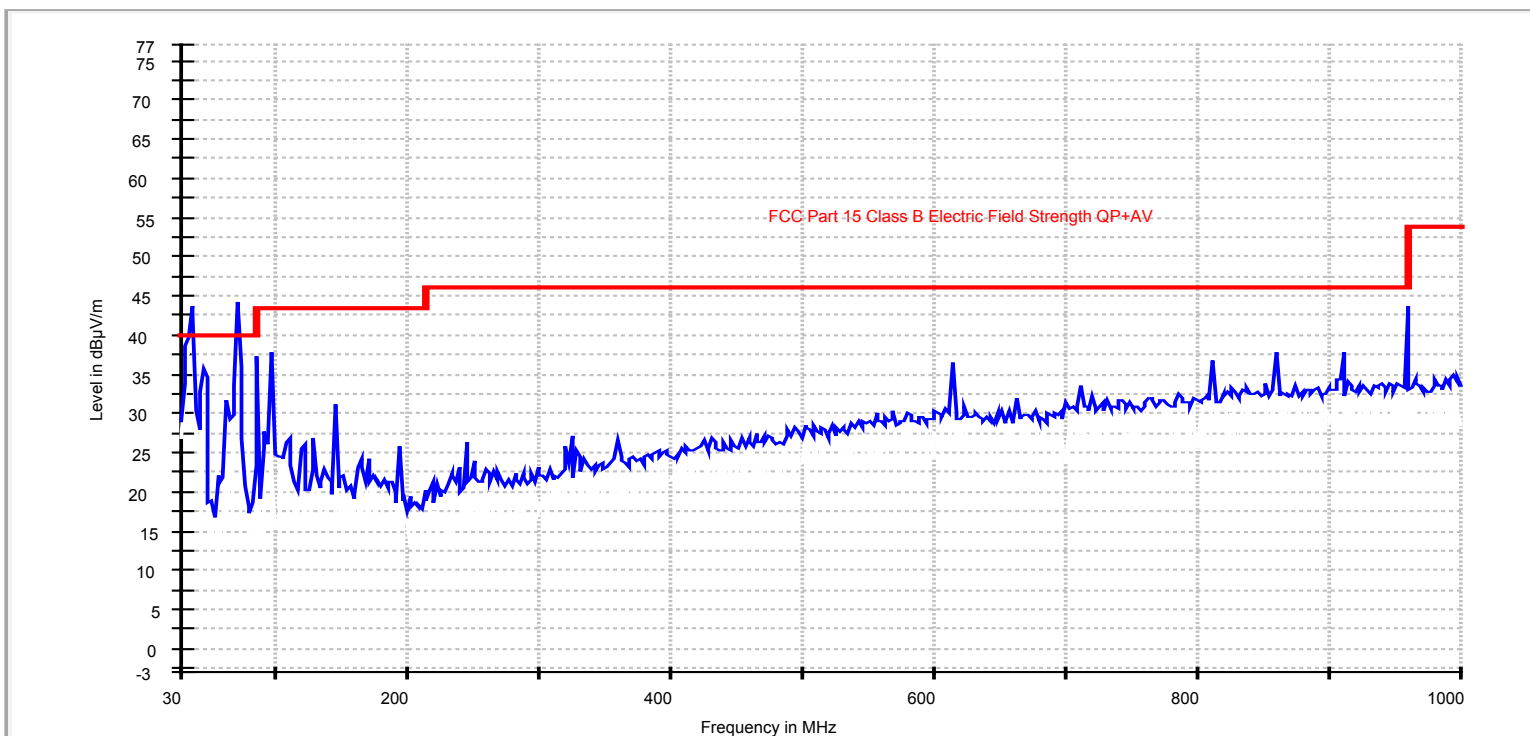
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
9. F is fundamental.
10. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.711423	39.4	44.7	40.0	-0.6	Y	8.0	95.0	V	PASS
73.689379	30.4	34.4	40.0	-9.6	Y	151.0	129.0	V	PASS
98.236473	36.2	39.2	43.5	-7.3	Y	334.0	111.0	V	PASS
147.330661	29.1	31.6	43.5	-14.4	Y	18.0	231.0	V	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 15.9 VDC Typical Modulation 88.1 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBµV/m

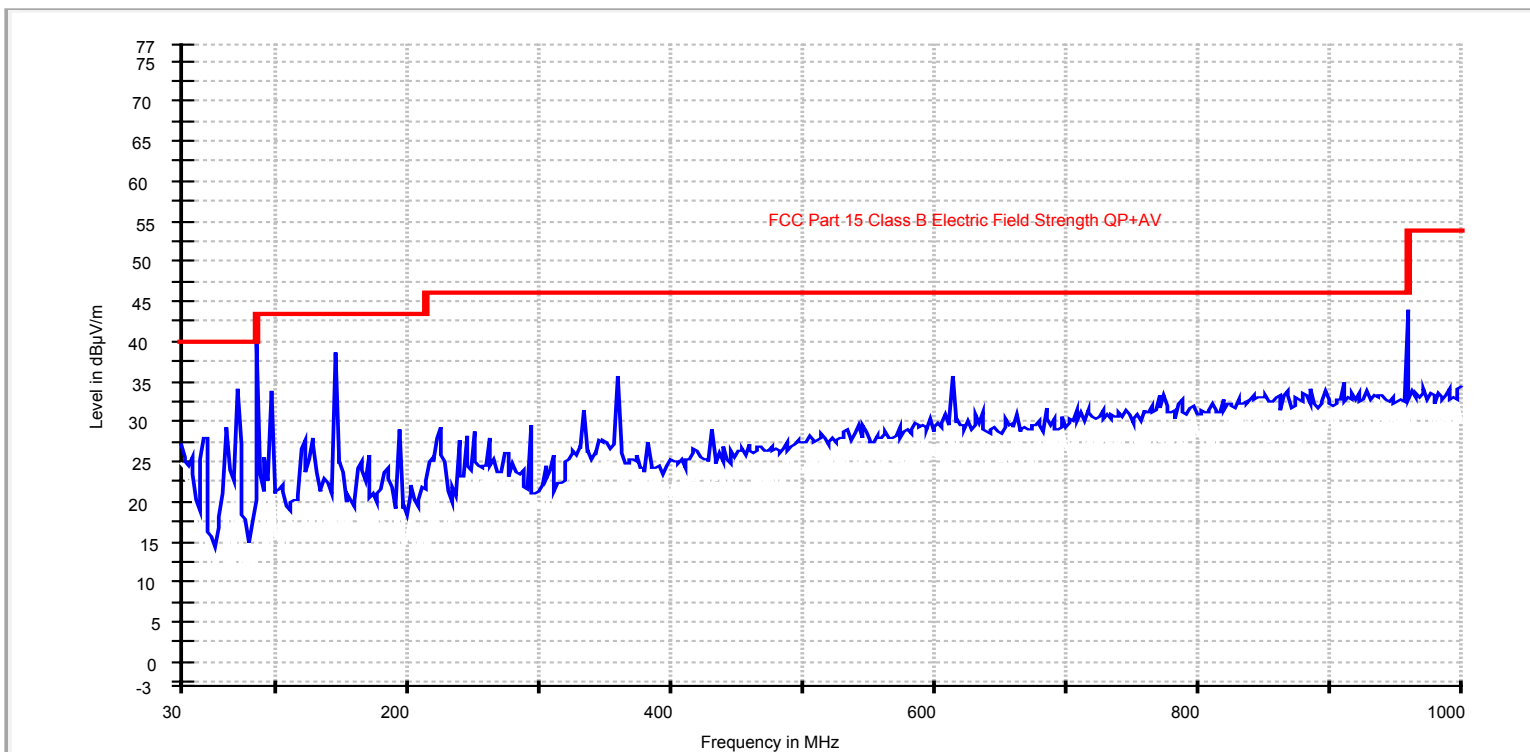
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
11. F is fundamental.
12. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.711423	22.1	28.2	40.0	-17.9	Y	8.0	95.0	H	PASS
73.665331	30.2	34.1	40.0	-9.8	Y	139.0	375.0	H	PASS
98.256513	33.5	38.3	43.5	-10.0	Y	57.0	209.0	H	PASS
147.333667	38.4	39.8	43.5	-5.4	Y	129.0	309.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 88.1 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dB μ V/m

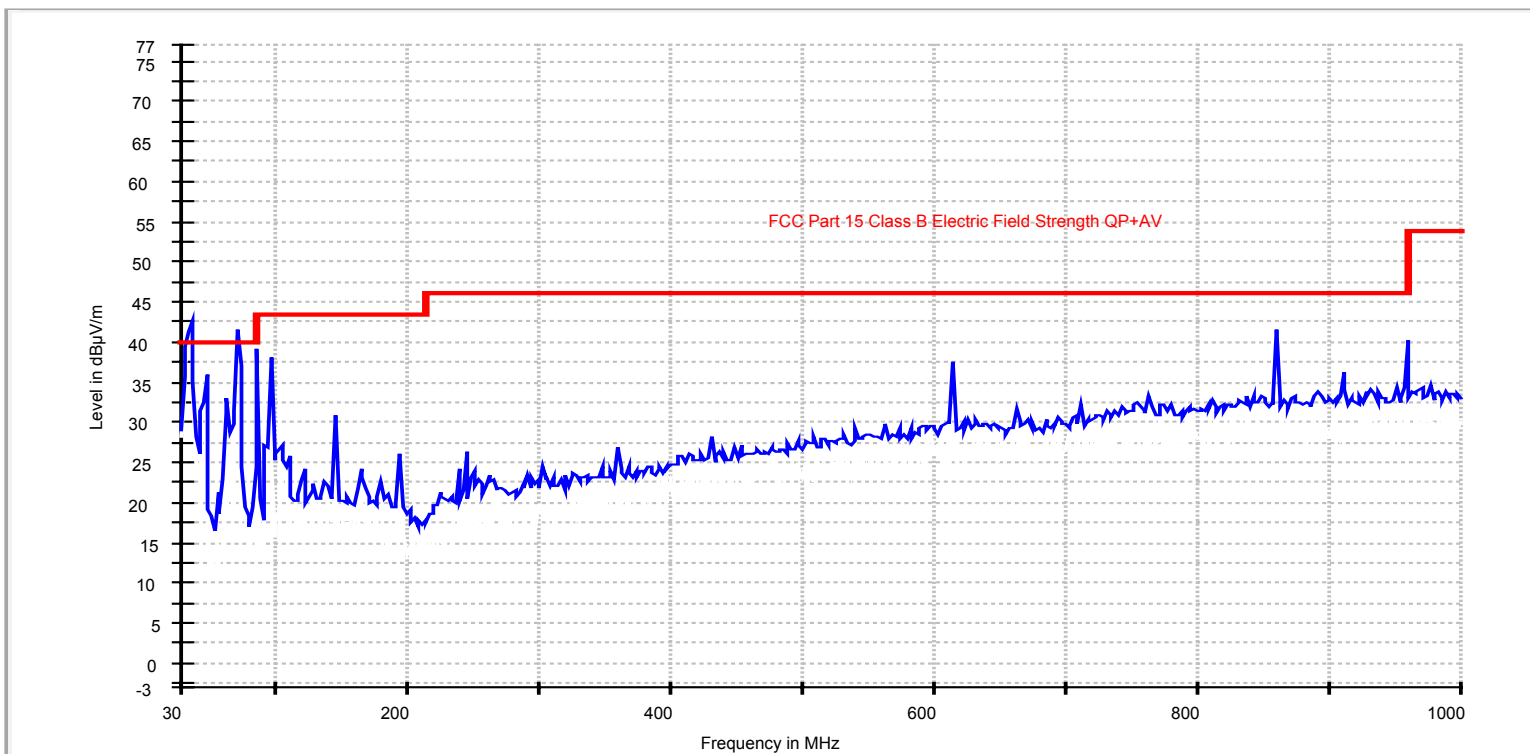
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
13. F is fundamental.
14. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.008016	39.0	44.2	40.0	-1.0	Y	8.0	95.0	V	PASS
73.691837	39.1	43.2	40.0	-0.9	Y	151.0	129.0	V	PASS
98.203006	36.4	39.8	43.5	-7.1	Y	334.0	111.0	V	PASS
147.310621	29.1	31.7	43.5	-14.4	Y	18.0	231.0	V	PASS

Frequency 99.9 MHz

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

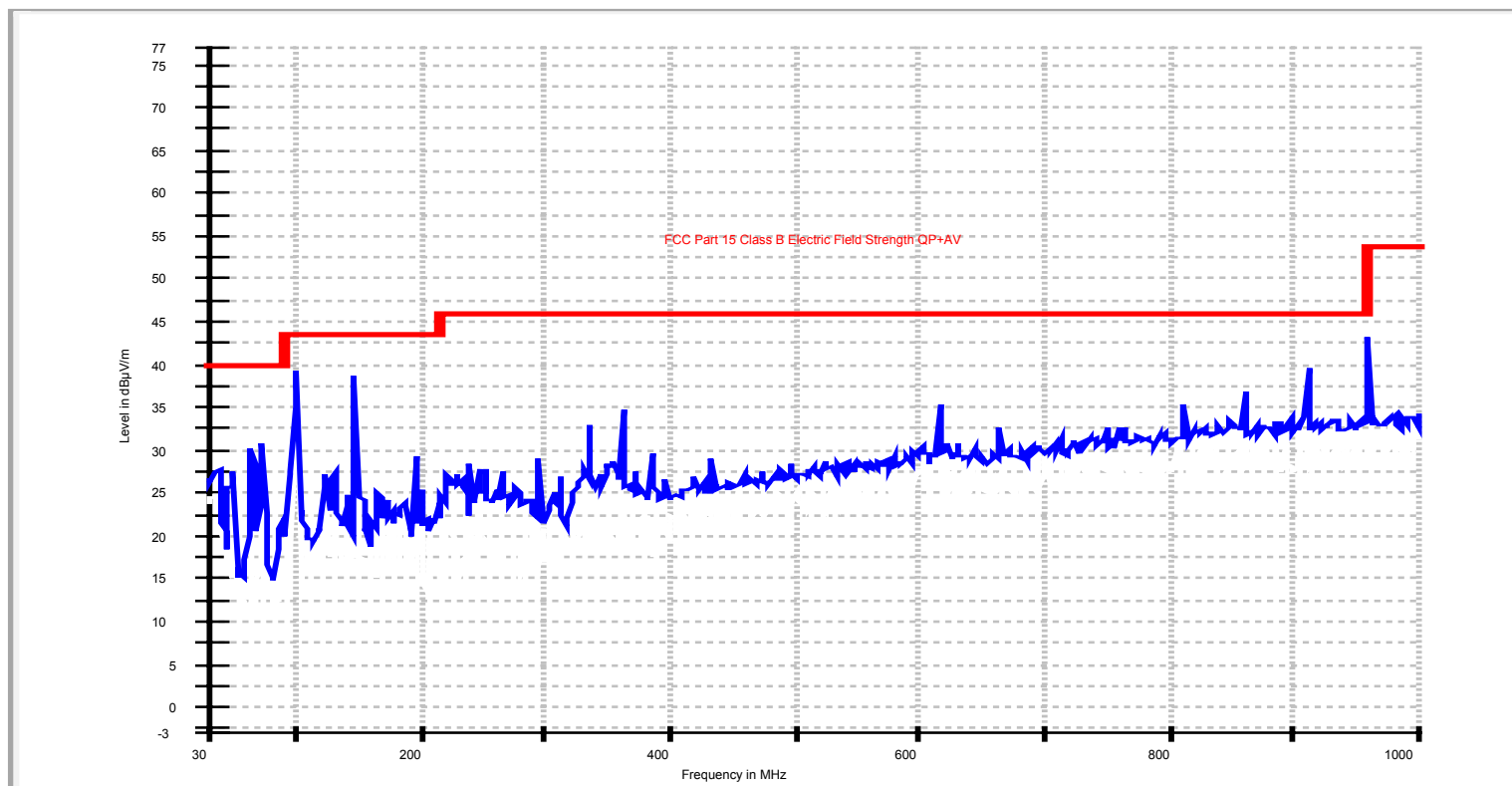
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
15. F is fundamental.
16. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
73.659319	22.8	26.4	40.0	-17.2	Y	139.0	375.0	H	PASS
98.216433	33.8	37.5	43.5	-9.7	Y	57.0	209.0	H	PASS
147.317235	38.3	39.8	43.5	-5.2	Y	129.0	309.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

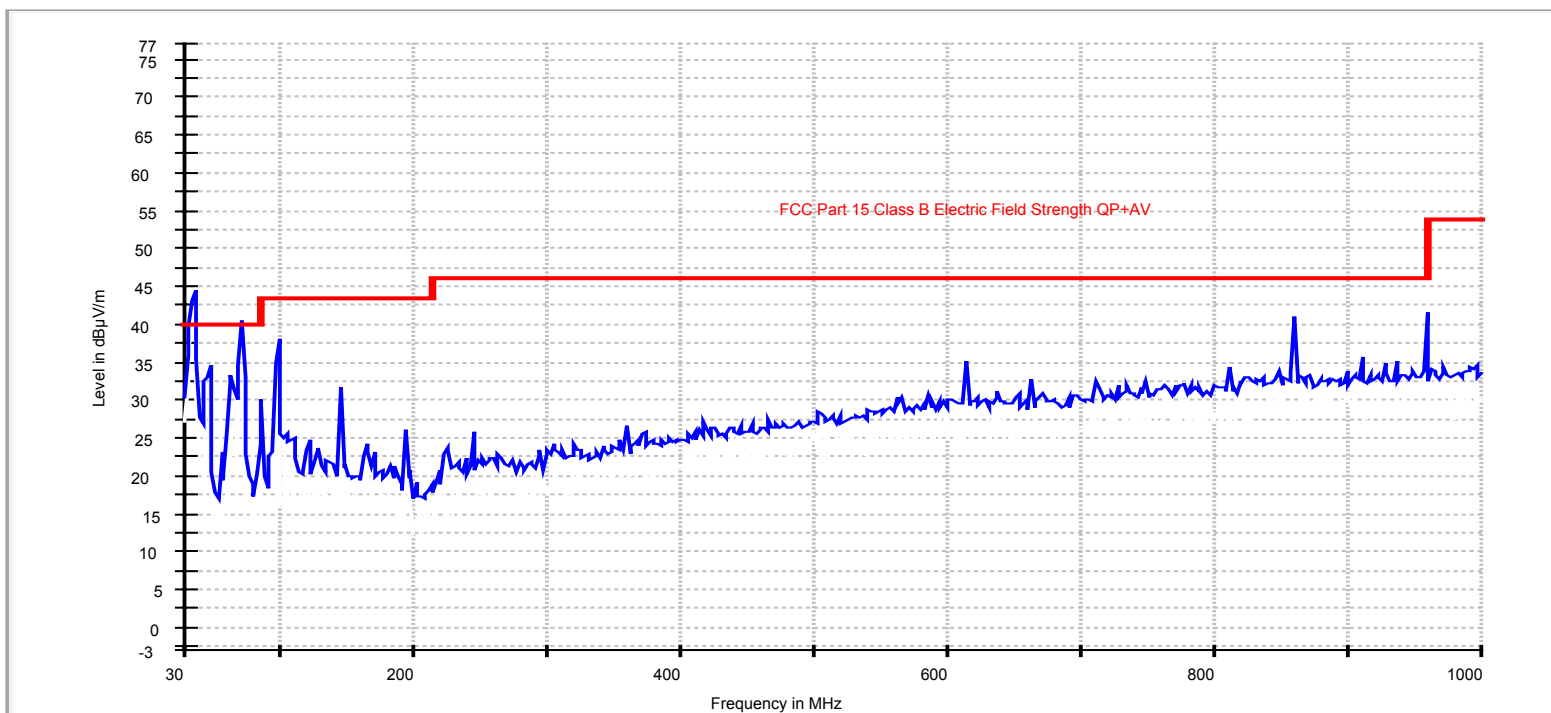
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
17. F is fundamental.
18. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.126152	38.1	43.7	40.0	-1.9	Y	8.0	95.0	V	PASS
73.659319	30.5	34.6	40.0	-9.5	Y	151.0	129.0	V	PASS
98.235271	33.3	37.2	43.5	-10.2	Y	334.0	111.0	V	PASS
147.334669	29.3	31.7	43.5	-11.8	Y	18.0	231.0	V	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 13.8 VDC Typical Modulation 99.9 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBµV/m

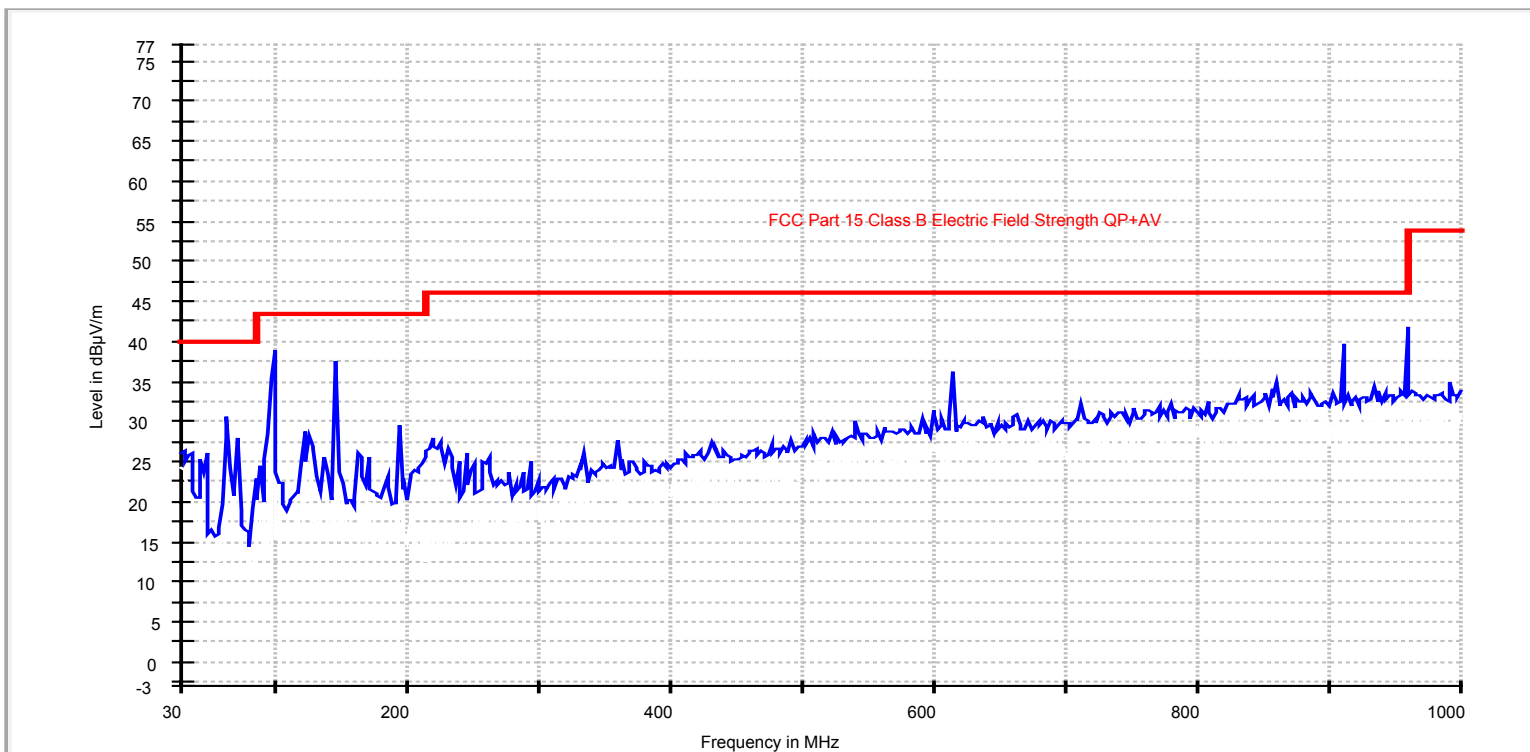
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
19. F is fundamental.
20. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
73.647295	23.4	27.0	40.0	-16.6	Y	139.0	375.0	H	PASS
98.236473	34.1	37.9	43.5	-9.4	Y	57.0	209.0	H	PASS
147.325451	38.4	39.8	43.5	-5.1	Y	129.0	309.0	H	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 13.8 VDC Typical Modulation 99.9 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBμV/m

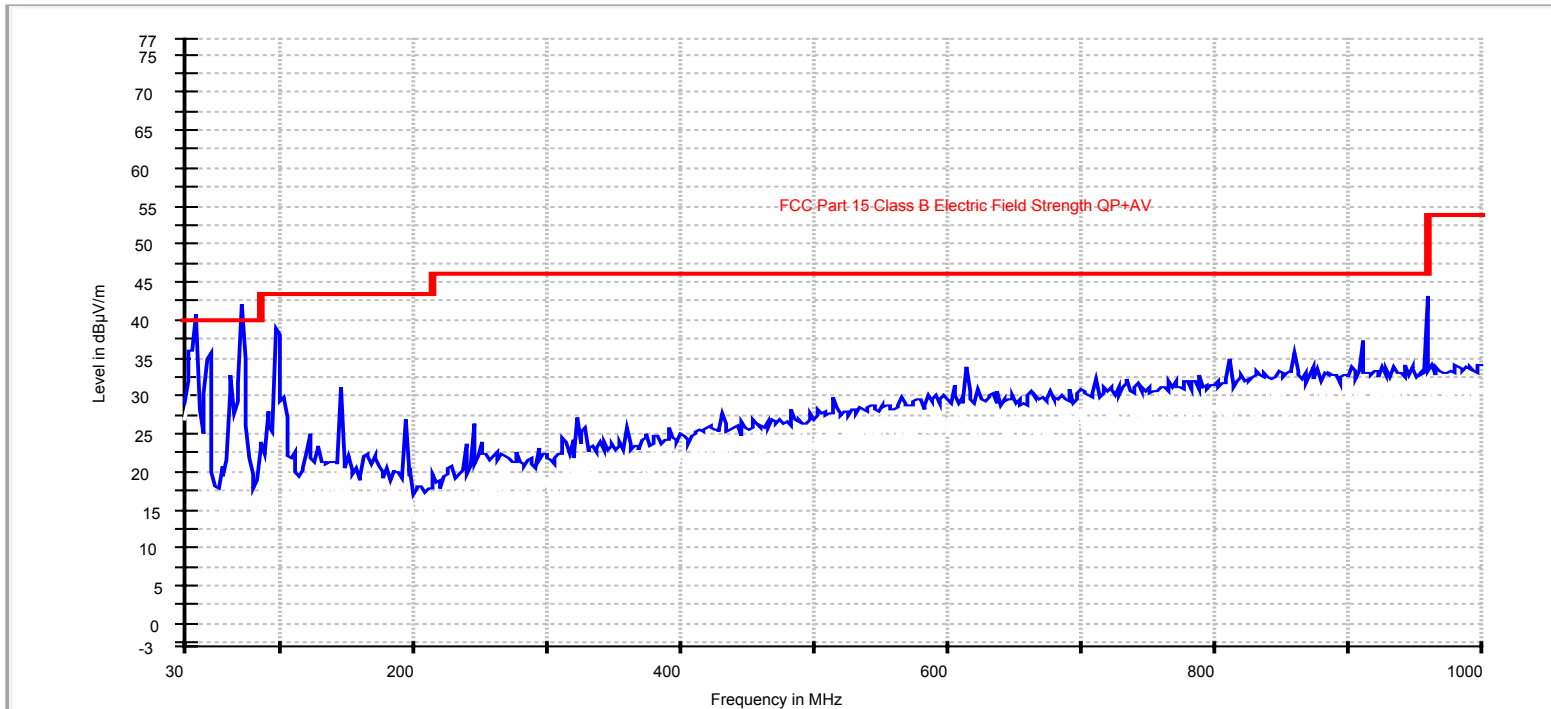
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
21. F is fundamental.
22. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.711423	37.7	43.5	40.0	-2.3	Y	8.0	95.0	V	PASS
73.737475	30.2	34.2	40.0	-9.8	Y	151.0	129.0	V	PASS
98.258317	34.8	39.6	43.5	-8.7	Y	334.0	111.0	V	PASS
147.338677	30.4	32.9	43.5	-13.1	Y	18.0	231.0	V	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 15.9 VDC Typical Modulation 99.9 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBμV/m

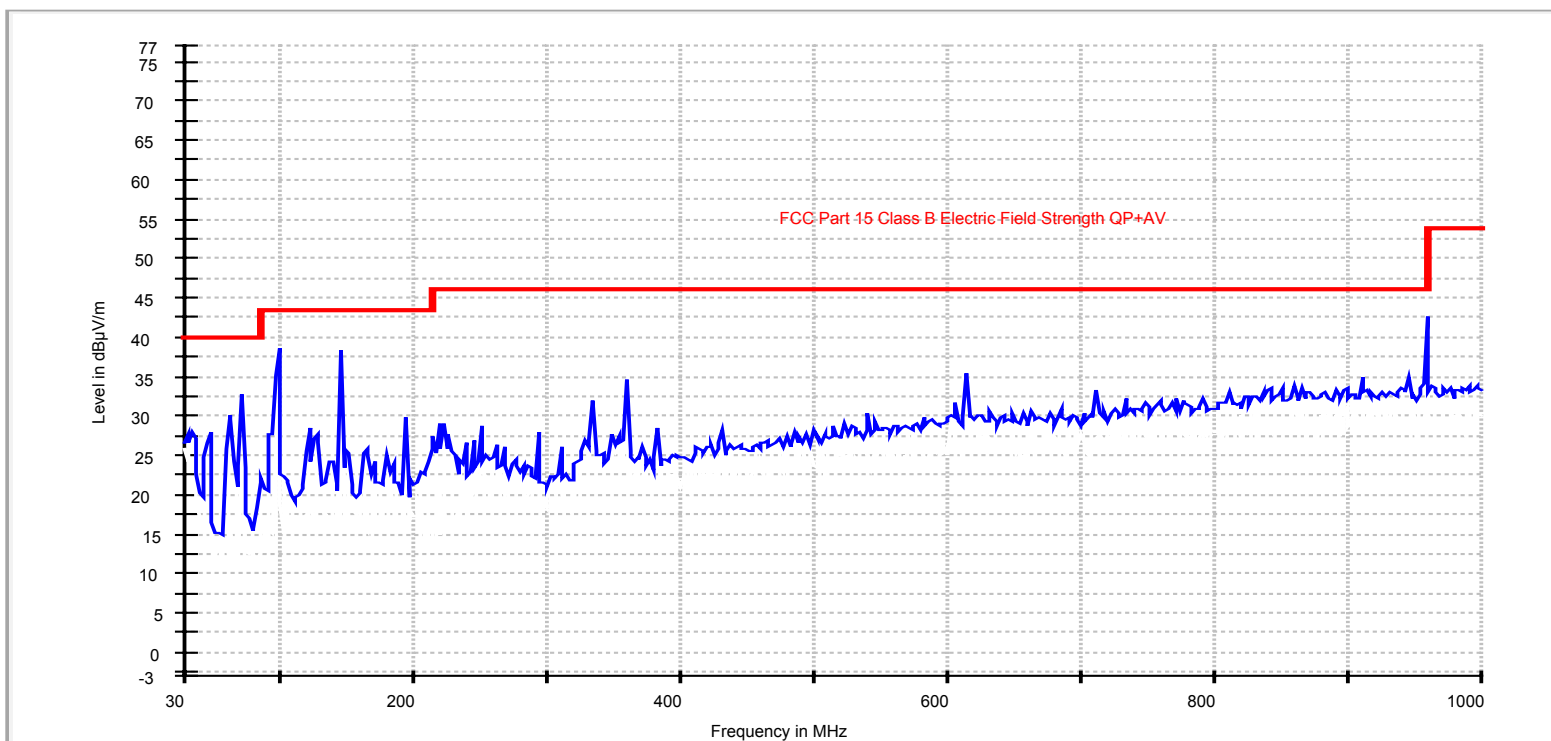
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
23. F is fundamental.
24. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.414830	22.5	28.2	40.0	-17.5	Y	8.0	95.0	H	PASS
73.653307	23.1	26.5	40.0	-16.9	Y	139.0	375.0	H	PASS
98.296593	30.0	36.7	43.5	-13.5	Y	57.0	209.0	H	PASS
147.333667	38.0	39.6	43.5	-5.5	Y	129.0	309.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dB μ V/m

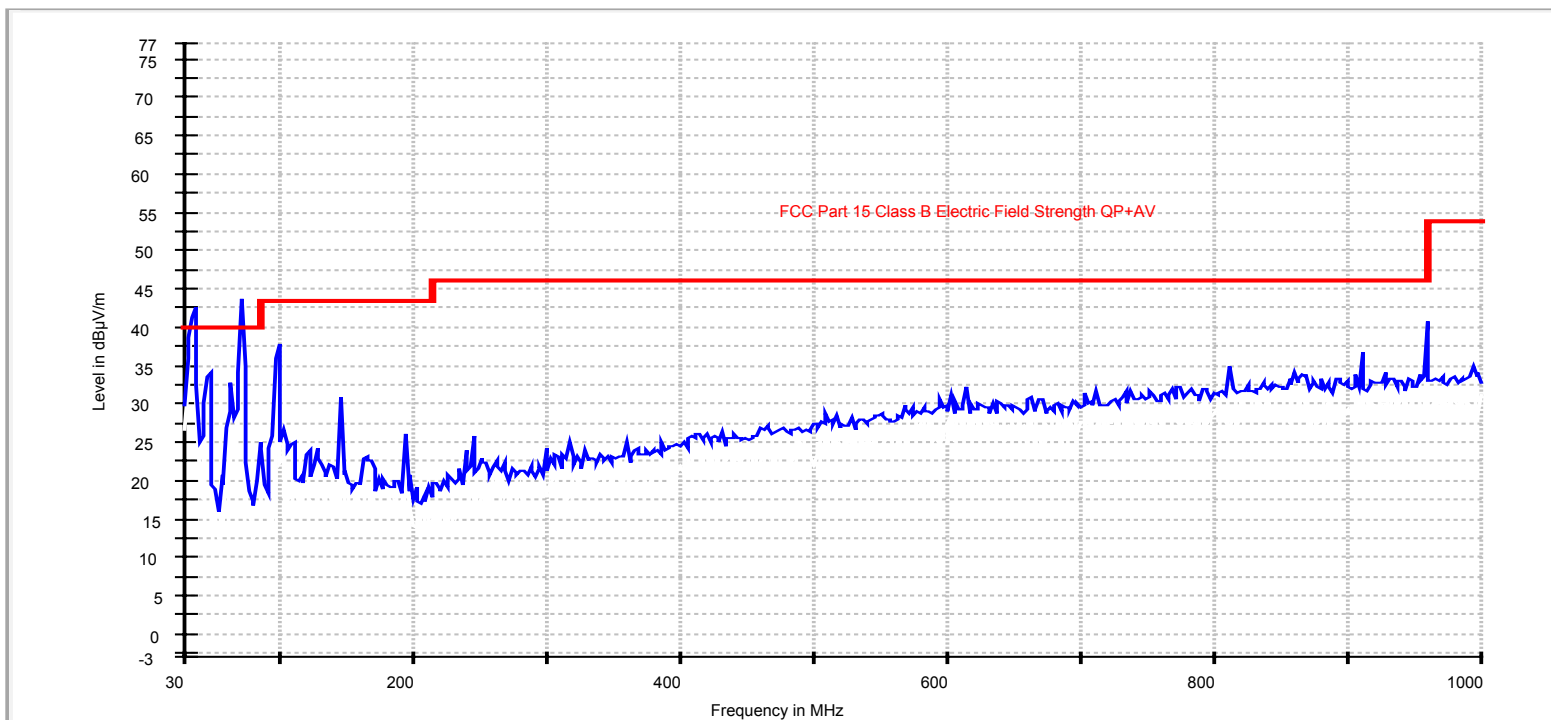
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
25. F is fundamental.
26. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBuV/m)	MaxPeak (dBuV/m)	QP Limit (dBuV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.563126	39.2	45.3	40.0	-0.8	Y	8.0	95.0	V	PASS
73.637275	30.3	34.5	40.0	-9.7	Y	151.0	129.0	V	PASS
98.216834	35.2	38.8	43.5	-8.3	Y	334.0	111.0	V	PASS
147.322645	28.9	31.5	43.5	-14.6	Y	18.0	231.0	V	PASS

Frequency 107.9

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

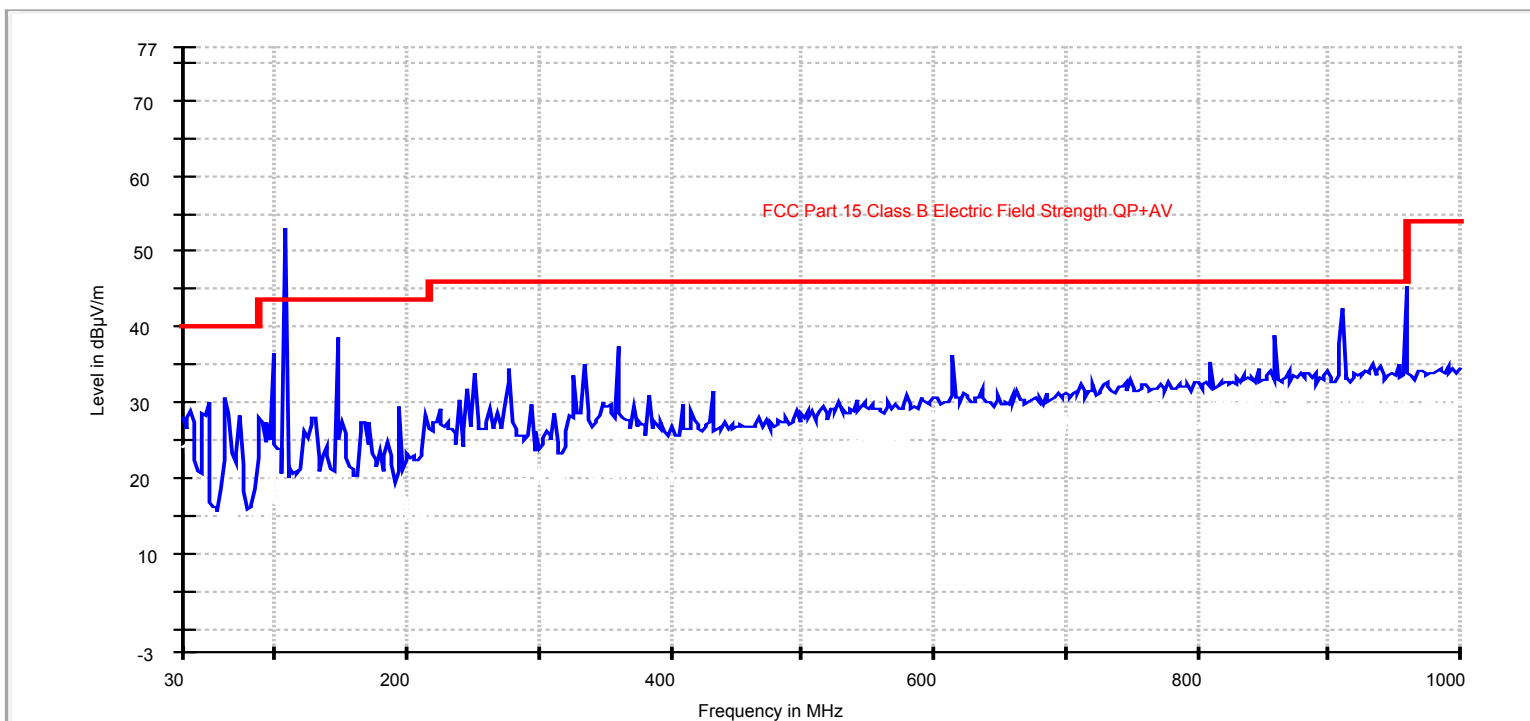
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
27. F is fundamental.
28. R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
73.661585	23.1	27.0	40.0	-16.9	Y	139.0	375.0	H	PASS
98.239559	32.9	37.6	43.5	-10.6	Y	57.0	209.0	H	PASS
147.303303	38.3	39.5	43.5	-5.2	Y	129.0	309.0	H	PASS
358.000480	35.8	38.0	46.0	-10.2	Y	9.0	95.0	H	PASS
958.117845	40.4	45.3	46.0	-5.6	Y	51.0	155.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

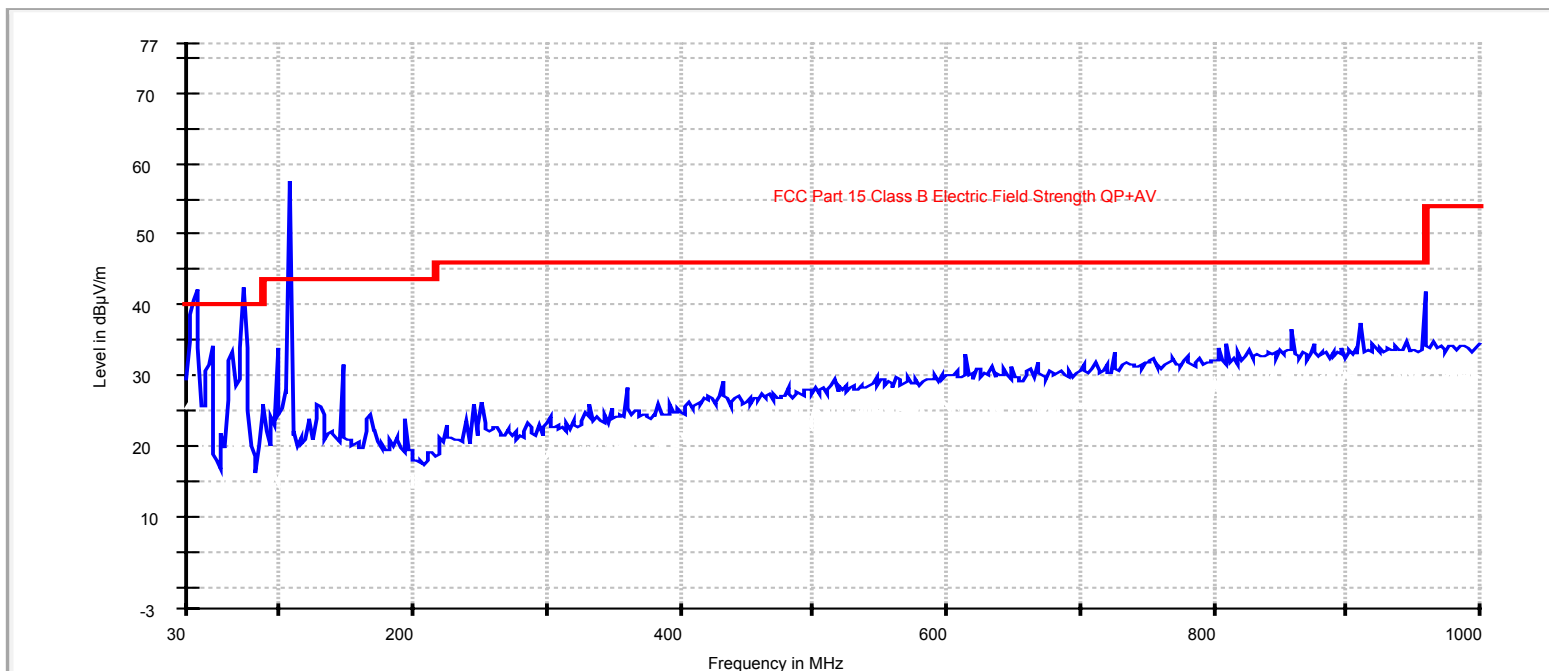
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
29. F is fundamental.
30. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.826193	38.9	44.5	40.0	-1.1	Y	8.0	95.0	V	PASS
73.641128	30.5	34.5	40.0	-9.5	Y	151.0	129.0	V	PASS
98.247929	32.8	37.5	43.5	-10.7	Y	334.0	111.0	V	PASS
147.306658	30.5	32.6	43.5	-13.0	Y	18.0	231.0	V	PASS
958.151253	41.3	45.5	46.0	-4.7	Y	26.0	149.0	V	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 13.8 VDC Typical Modulation 107.9 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBμV/m

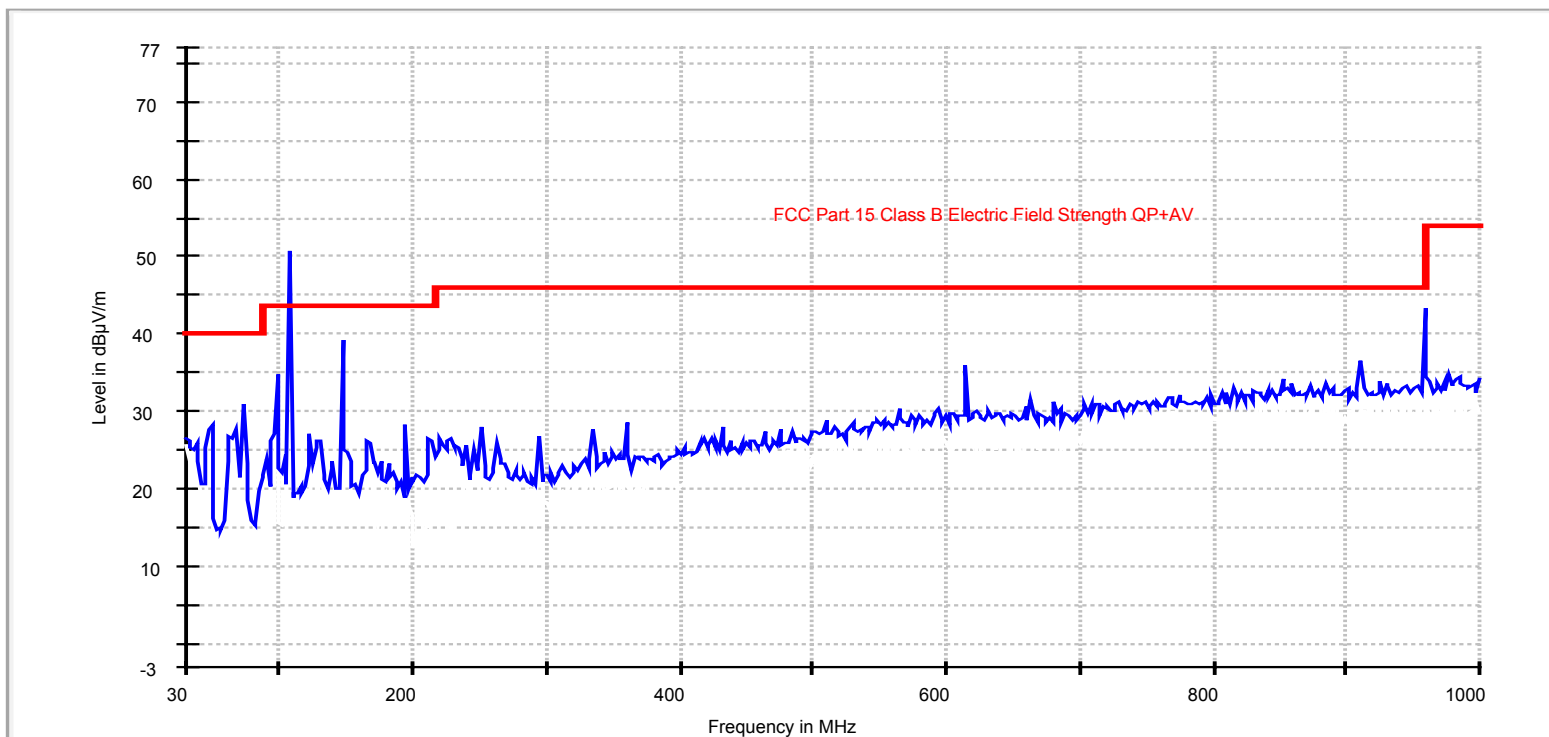
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
31. F is fundamental.
32. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
73.695391	23.2	26.8	40.0	-16.8	Y	139.0	375.0	H	PASS
98.276553	31.6	37.8	43.5	-11.9	Y	57.0	209.0	H	PASS
147.318637	31.4	34.3	43.5	-12.1	Y	18.0	231.0	H	PASS
958.110220	38.8	43.8	46.0	-7.2	Y	51.0	155.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	13.8 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

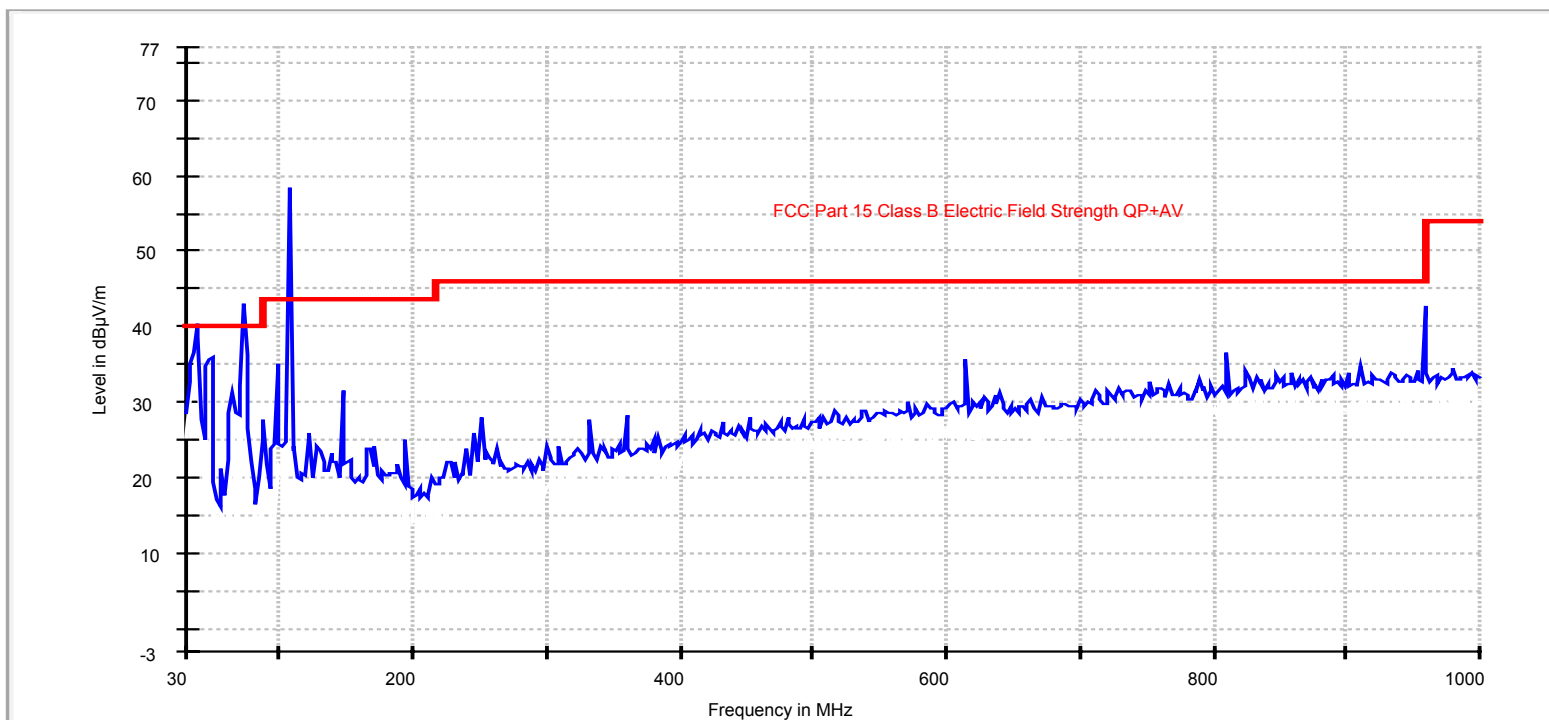
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
33. F is fundamental.
34. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
39.898635	36.1	42.0	40.0	-3.9	Y	8.0	95.0	V	PASS
73.675351	30.6	35.6	40.0	-9.4	Y	156.0	130.0	V	PASS
98.230661	33.7	37.4	43.5	-9.8	Y	334.0	111.0	V	PASS
147.326653	30.3	32.6	43.5	-13.2	Y	18.0	231.0	V	PASS
958.010020	41.5	44.6	46.0	-4.5	Y	26.0	149.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Y Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

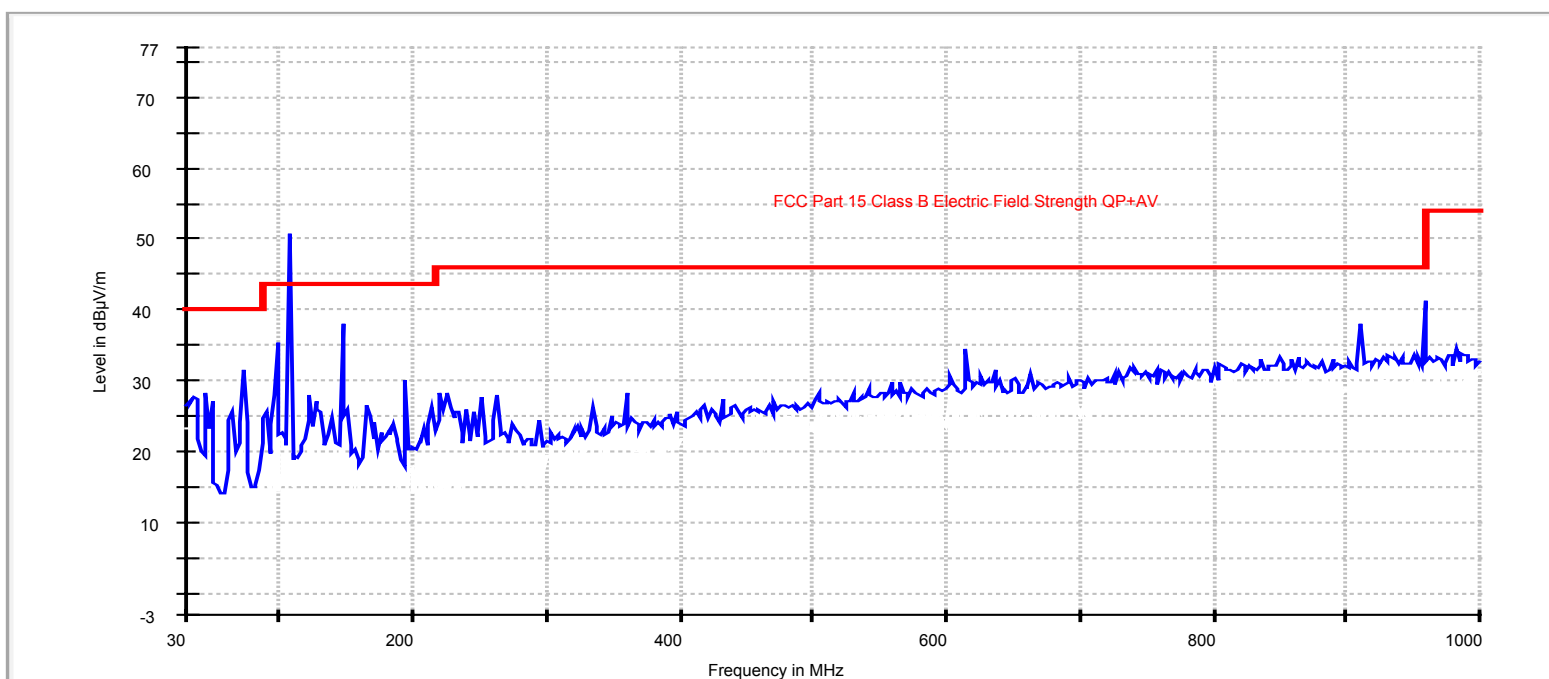
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
35. F is fundamental.
36. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
73.665331	23.2	27.3	40.0	-16.8	Y	139.0	375.0	H	PASS
98.256513	33.0	38.1	43.5	-10.5	Y	57.0	209.0	H	PASS
147.325451	36.7	38.5	43.5	-6.8	Y	129.0	309.0	H	PASS
957.995992	40.3	44.0	46.0	-5.7	Y	51.0	155.0	H	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 15.9 VDC Typical Modulation 107.9 MHz
Operator Name: Jeff Banting
Comment: Axis-Y Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBμV/m

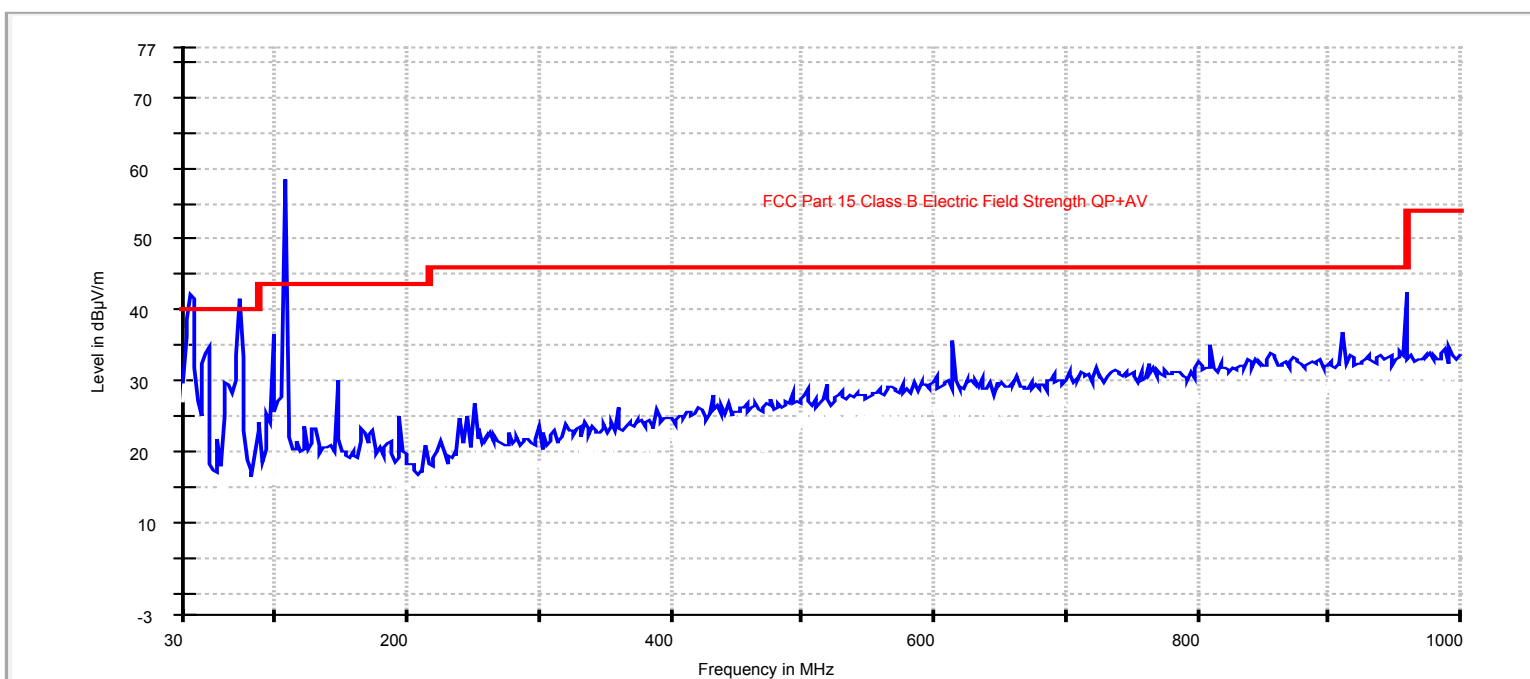
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
37. F is fundamental.
38. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
37.362621	38.7	43.6	40.0	-1.3	Y	8.0	95.0	V	PASS
73.675351	30.4	35.5	40.0	-9.6	Y	151.0	129.0	V	PASS
98.239880	36.1	39.9	43.5	-7.4	Y	334.0	111.0	V	PASS
147.354709	29.3	31.7	43.5	-14.2	Y	18.0	231.0	V	PASS
958.258517	32.9	43.0	46.0	-13.1	Y	26.0	149.0	V	PASS

1.1.1 TEST RESULTS (EUT Position Z at 88.1, 99.9, and 107.9 MHz)**EUT Position Z****Frequency 88.1 MHz****Test Information**

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 88.1 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

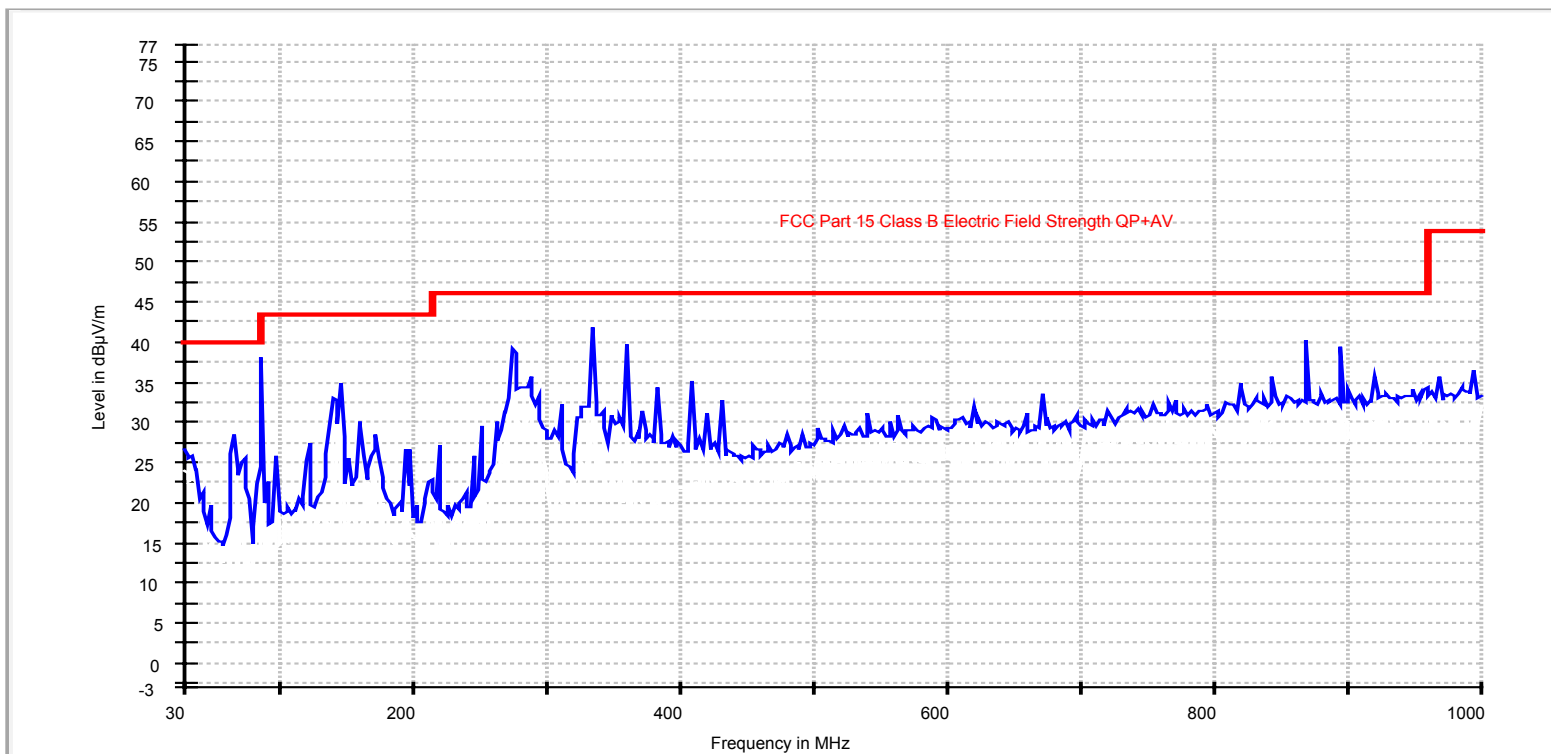
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
39. F is fundamental.
40. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
147.318637	34.1	39.1	40.0	-5.9	Z	100.0	160.0	H	PASS
276.072144	34.8	38.5	46.0	-11.2	Z	280.0	95.0	H	PASS
336.072144	38.1	41.6	46.0	-7.9	Z	32.0	95.0	H	PASS
360.040080	38.4	40.5	46.0	-7.6	Z	280.0	95.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 88.1 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

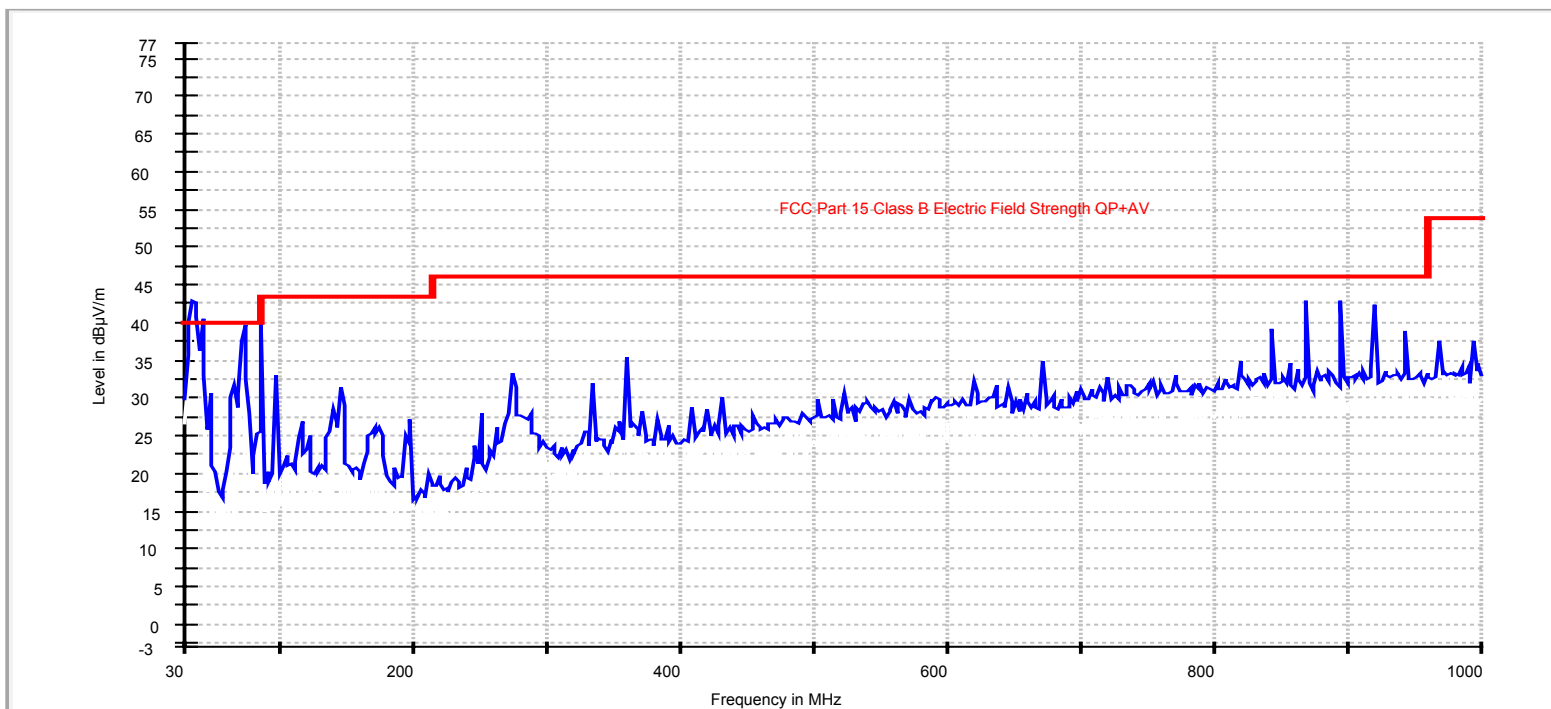
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
41. F is fundamental.
42. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
39.458918	36.5	44.7	40.0	-3.5	Z	8.0	95.0	V	PASS
43.667335	35.9	43.9	40.0	-4.1	Z	8.0	95.0	V	PASS
74.509018	37.1	39.8	40.0	-2.9	Z	116.0	148.0	V	PASS
276.092184	27.7	31.8	46.0	-18.3	Z	115.0	162.0	V	PASS
360.040080	27.1	30.5	46.0	-18.9	Z	333.0	150.0	V	PASS

Test Information

EUT Name: FM_TX_TextCommander
Serial Number: N/A
Test Description: FCC_15_209
Operating Conditions: 13.8 VDC Typical Modulation 88.1 MHz
Operator Name: Jeff Banting
Comment: Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup: EMI 1GHz
Level Unit: dBμV/m

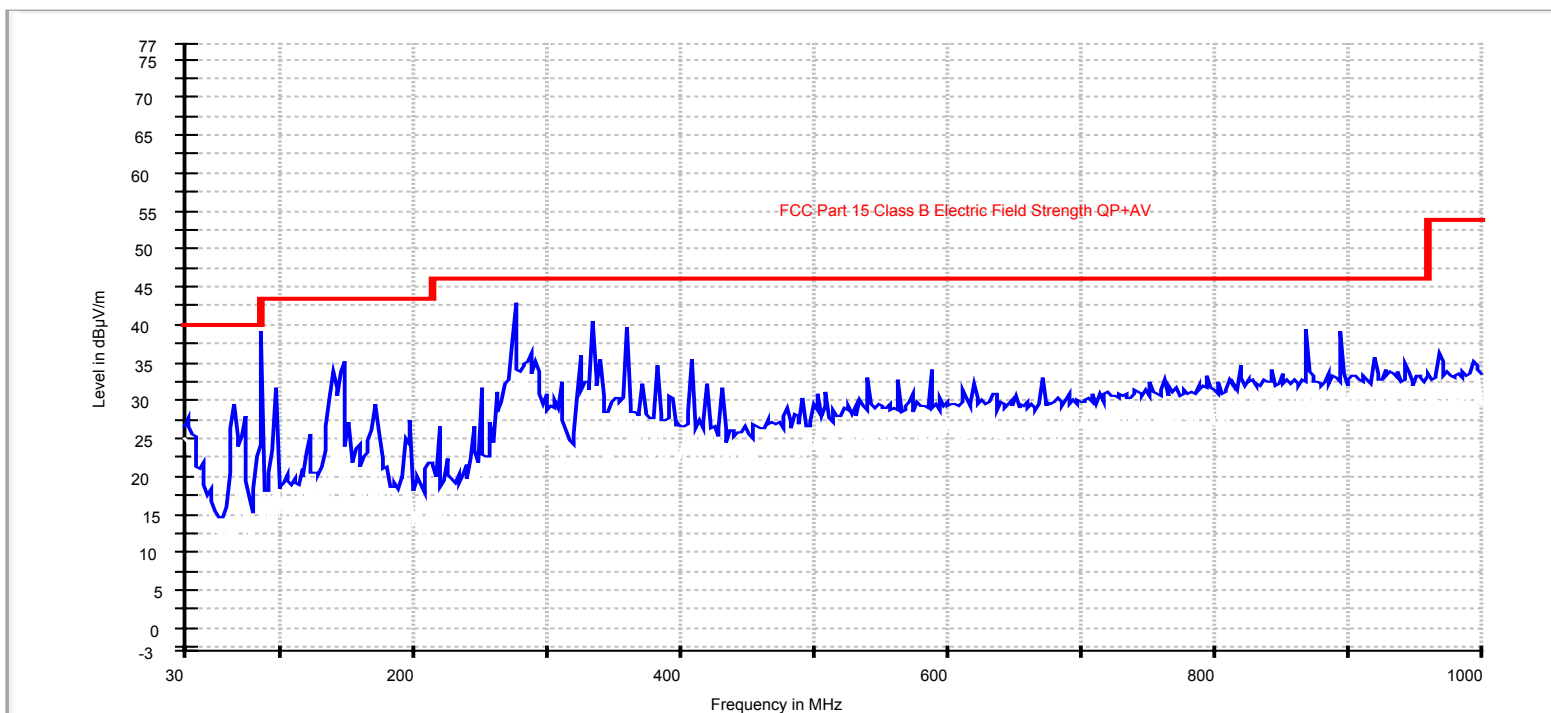
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
43. F is fundamental.
44. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
198.677355	22.3	28.3	43.5	-21.2	Z	100.0	160.0	H	PASS
276.072144	33.5	37.9	46.0	-12.5	Z	280.0	95.0	H	PASS
335.072144	38.8	42.1	46.0	-7.2	Z	32.0	95.0	H	PASS
360.048521	38.8	41.2	46.0	-7.2	Z	280.0	95.0	H	PASS



Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	13.8 VDC Typical Modulation 88.1 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

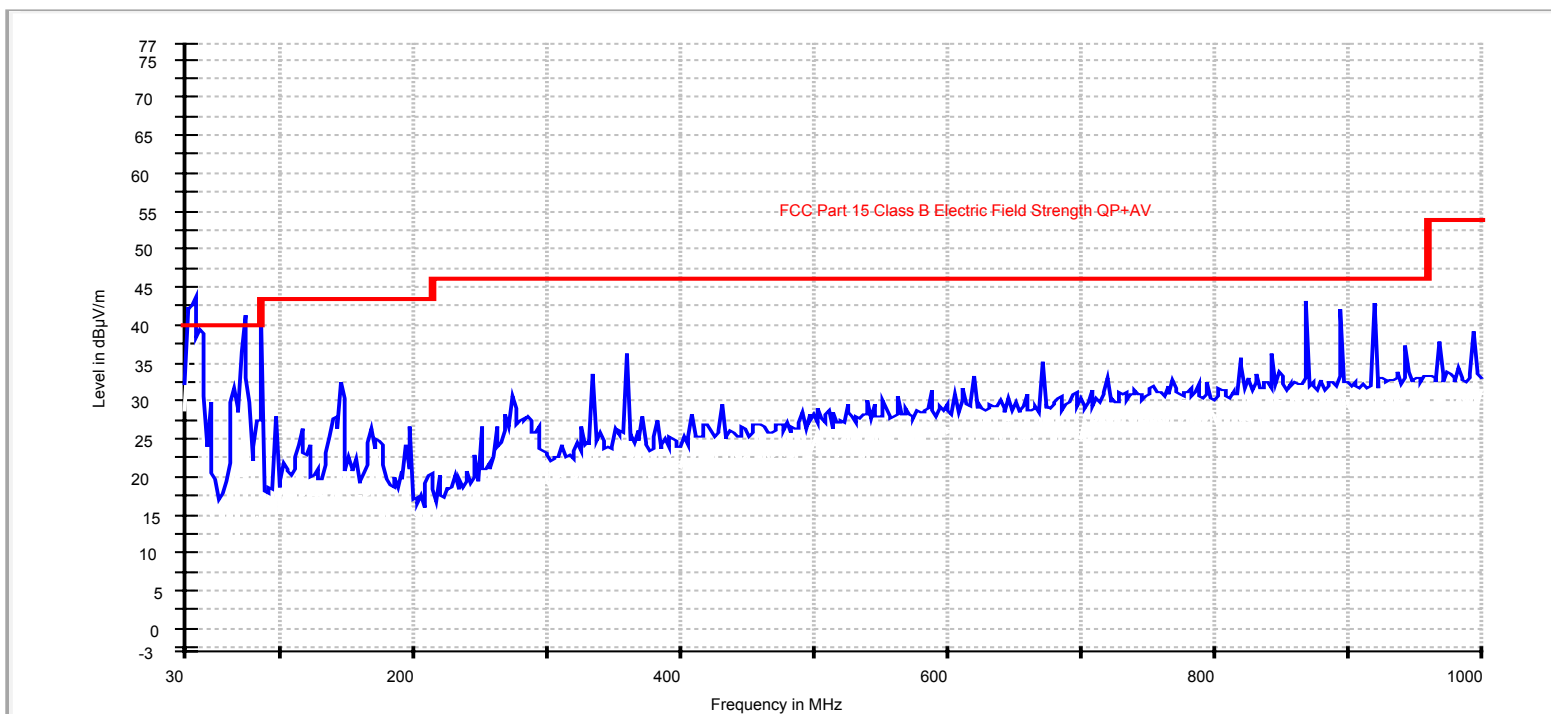
Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBµV/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.016032	38.3	44.5	40.0	-1.7	Z	8.0	95.0	V	PASS
43.667335	34.7	42.9	40.0	-5.3	Z	8.0	95.0	V	PASS
75.468938	39.0	43.0	40.0	-1.0	Z	116.0	148.0	V	PASS
276.032064	29.0	32.5	46.0	-17.0	Z	115.0	162.0	V	PASS
360.040080	35.4	37.6	46.0	-10.6	Z	333.0	150.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 88.1 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dB μ V/m

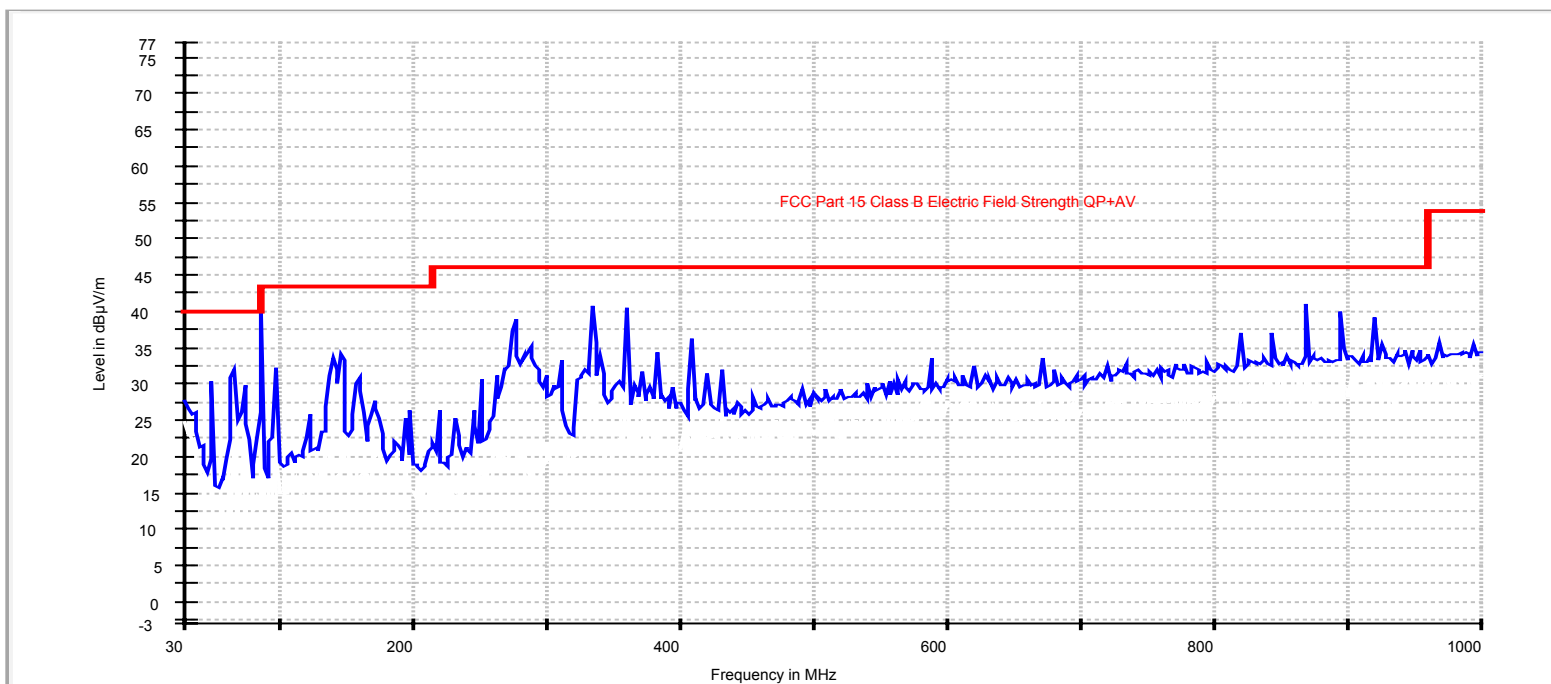
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
45. F is fundamental.
46. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
147.470942	26.6	34.4	43.5	-16.9	Z	289.0	171.0	H	PASS
173.807615	27.2	31.5	43.5	-16.3	Z	272.0	189.0	H	PASS
198.637275	25.7	29.7	43.5	-17.8	Z	100.0	160.0	H	PASS
276.112224	33.1	37.1	46.0	-12.9	Z	280.0	95.0	H	PASS
336.072144	39.2	42.6	46.0	-6.8	Z	32.0	95.0	H	PASS
360.040080	38.8	40.8	46.0	-7.2	Z	280.0	95.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 88.1 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBµV/m

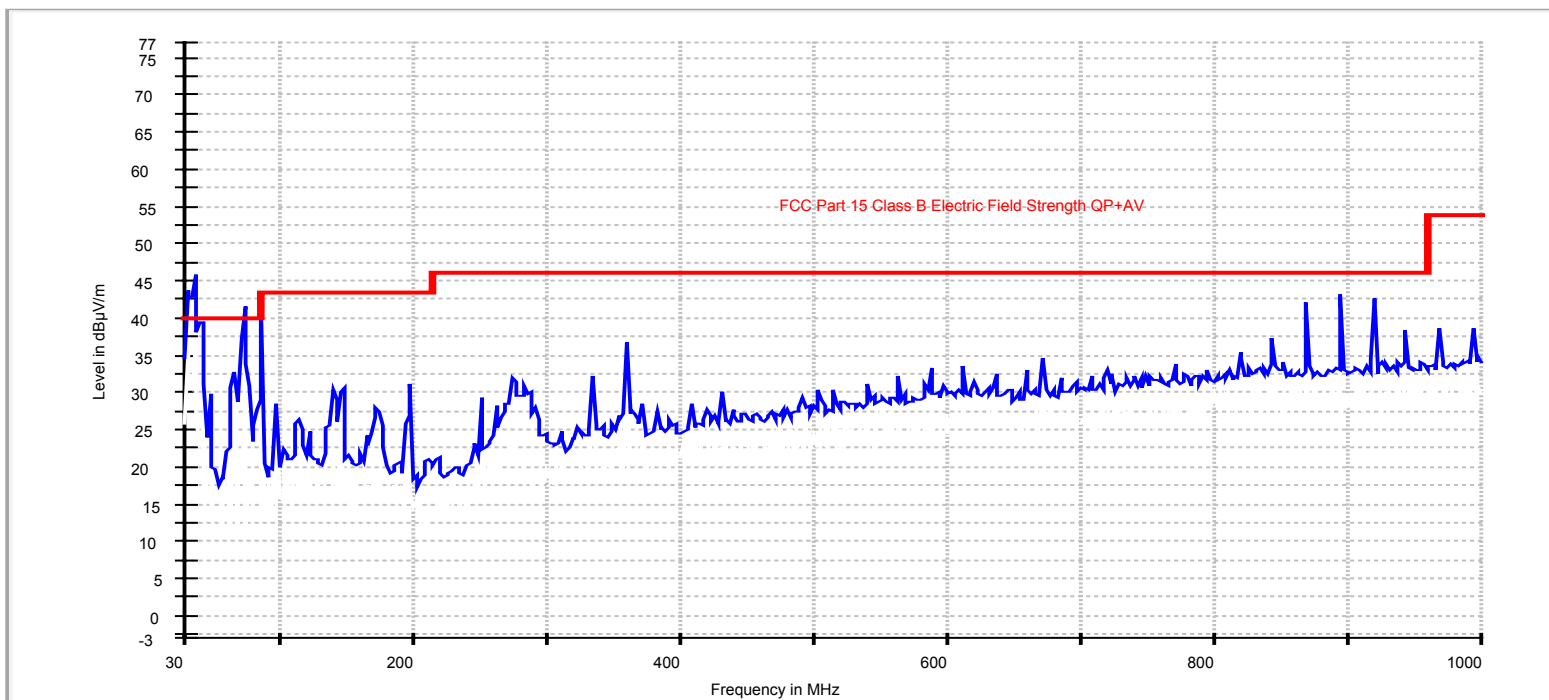
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
47. F is fundamental.
48. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.256513	39.4	45.6	40.0	-0.6	Z	8.0	95.0	V	PASS
43.667335	35.6	44.3	40.0	-4.4	Z	8.0	95.0	V	PASS
74.448898	39.1	43.1	40.0	-0.9	Z	116.0	148.0	V	PASS
276.072144	26.3	31.9	46.0	-19.7	Z	115.0	162.0	V	PASS
360.040080	35.5	37.5	46.0	-10.5	Z	333.0	150.0	V	PASS

Frequency 99.9 MHz

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

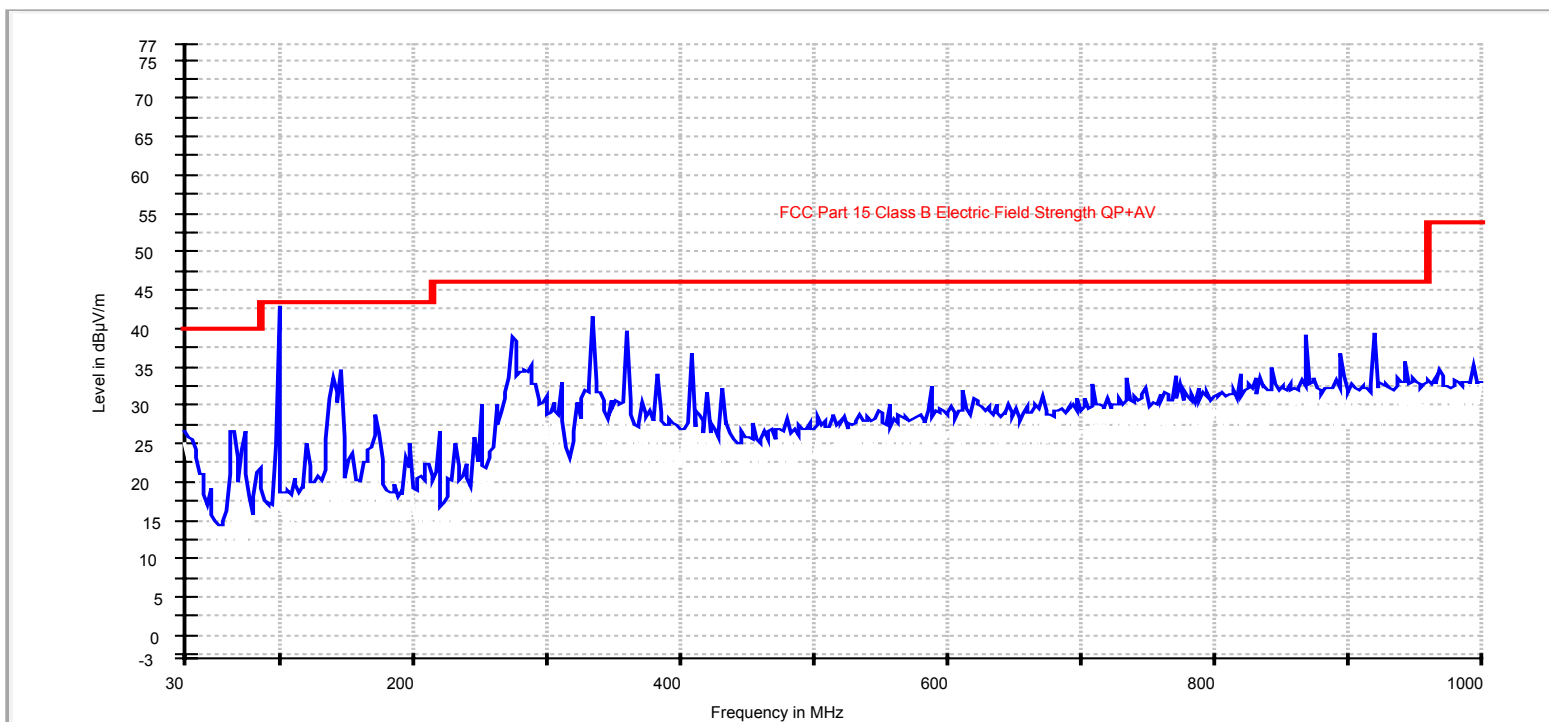
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
49. F is fundamental.
50. R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
173.865732	24.6	30.2	43.5	-18.9	Z	8.0	95.0	H	PASS
276.072144	36.8	39.7	46.0	-9.2	Z	116.0	148.0	H	PASS
336.072144	37.0	40.7	46.0	-9.0	Z	115.0	162.0	H	PASS
360.040080	38.5	40.6	46.0	-7.5	Z	333.0	150.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dB μ V/m

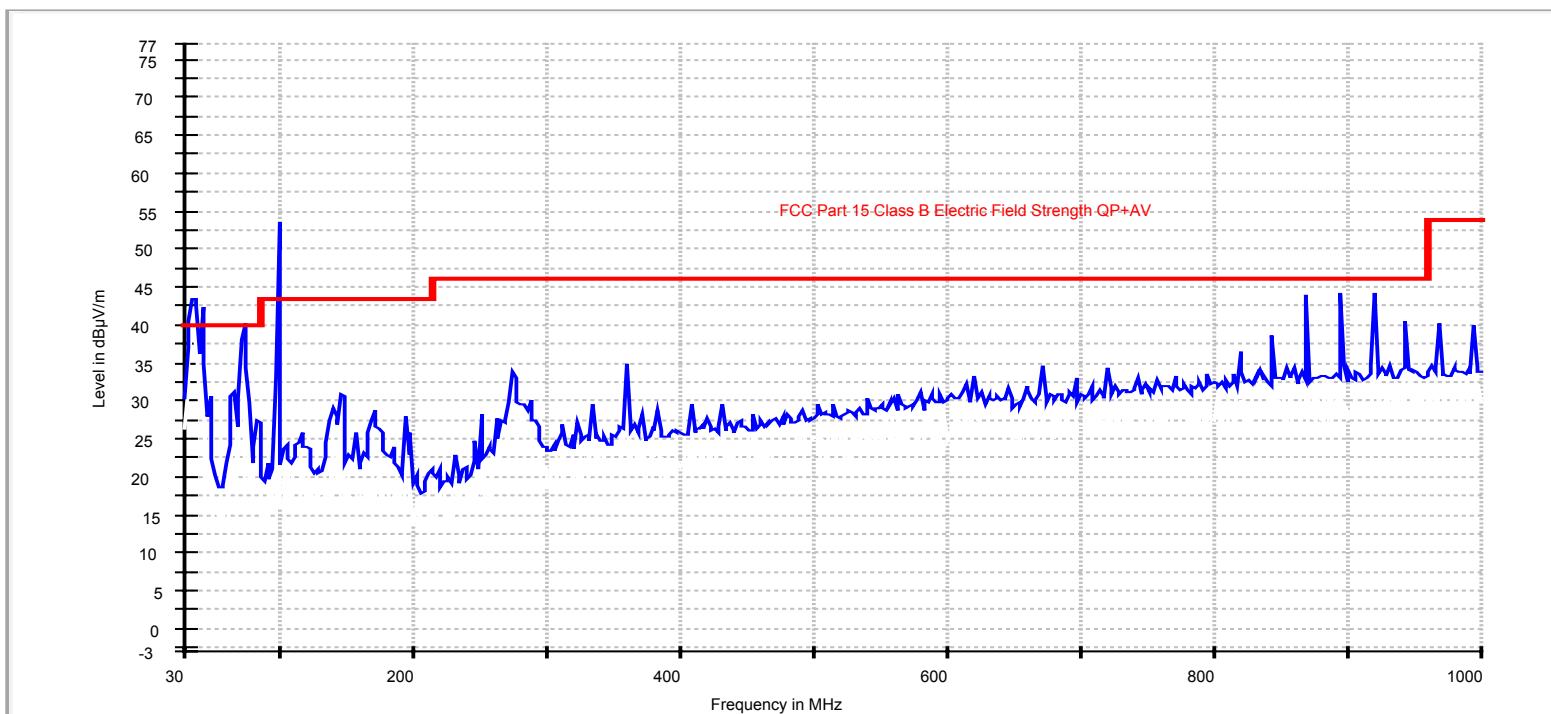
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
51. F is fundamental.
52. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
39.539078	37.0	44.3	40.0	-3.0	Z	8.0	95.0	V	PASS
43.466934	34.2	42.4	40.0	-5.8	Z	8.0	95.0	V	PASS
74.509018	20.8	25.8	40.0	-19.2	Z	116.0	148.0	V	PASS
276.032064	31.4	34.1	46.0	-14.6	Z	115.0	162.0	V	PASS
306.040080	34.3	36.4	46.0	-11.7	Z	333.0	150.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	13.8 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

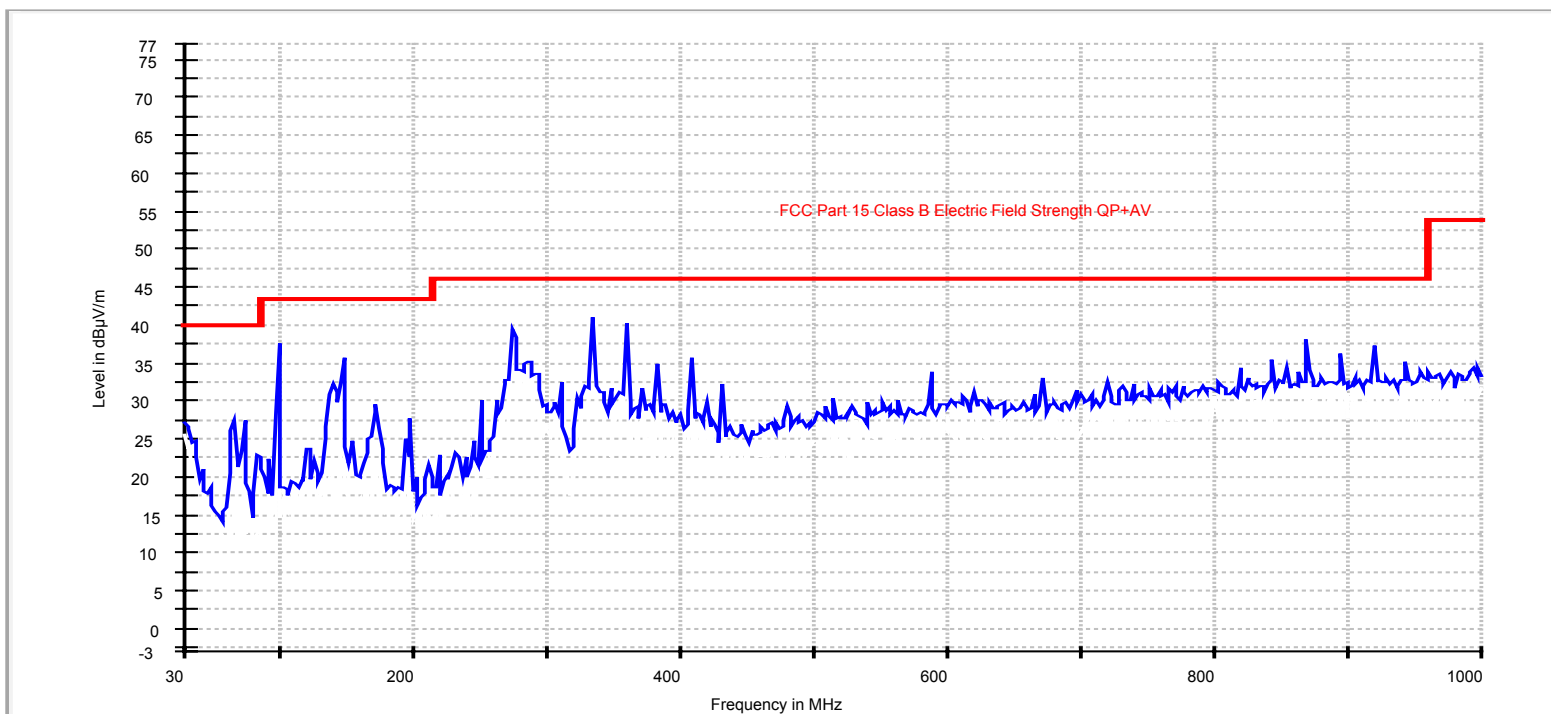
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
53. F is fundamental.
54. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
147.342685	38.0	32.3	43.5	-5.5	Z	289.0	171.0	V	PASS
148.985972	36.6	33.5	43.5	-6.9	Z	289.0	171.0	V	PASS
276.072144	36.6	39.8	46.0	-9.4	Z	32.0	95.0	V	PASS
336.072144	37.4	40.9	46.0	-8.6	Z	280.0	95.0	V	PASS
360.040080	38.7	41.2	46.0	-7.3	Z	280.0	95.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	13.8 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

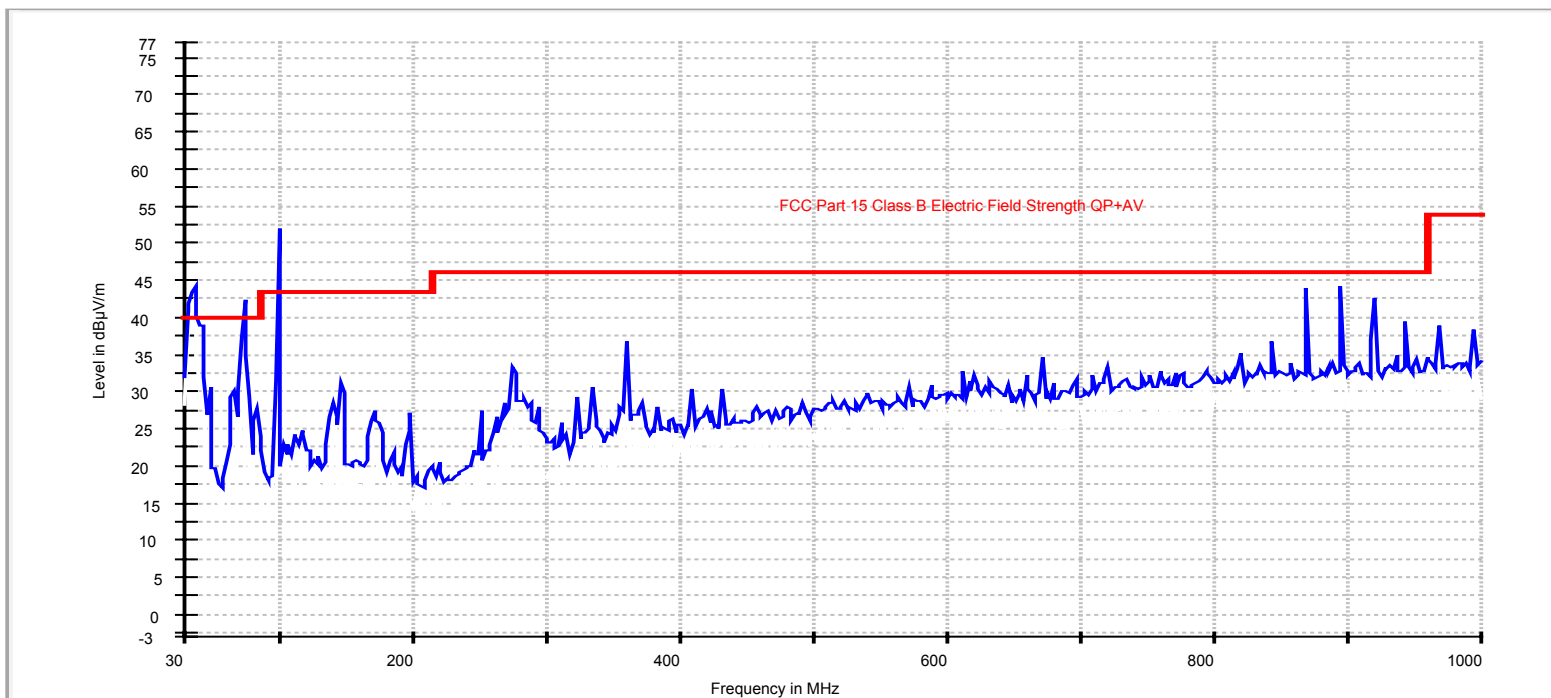
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
55. F is fundamental.
56. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.657315	38.3	45.6	40.0	-1.7	Z	8.0	95.0	V	PASS
43.306613	35.3	44.5	40.0	-4.7	Z	116.0	148.0	V	PASS
74.428858	38.7	43.6	40.0	-1.3	Z	115.0	162.0	V	PASS
276.092184	27.5	32.2	46.0	-18.5	Z	333.0	150.0	V	PASS
360.040080	35.0	37.5	46.0	-11.0	Z	333.0	150.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

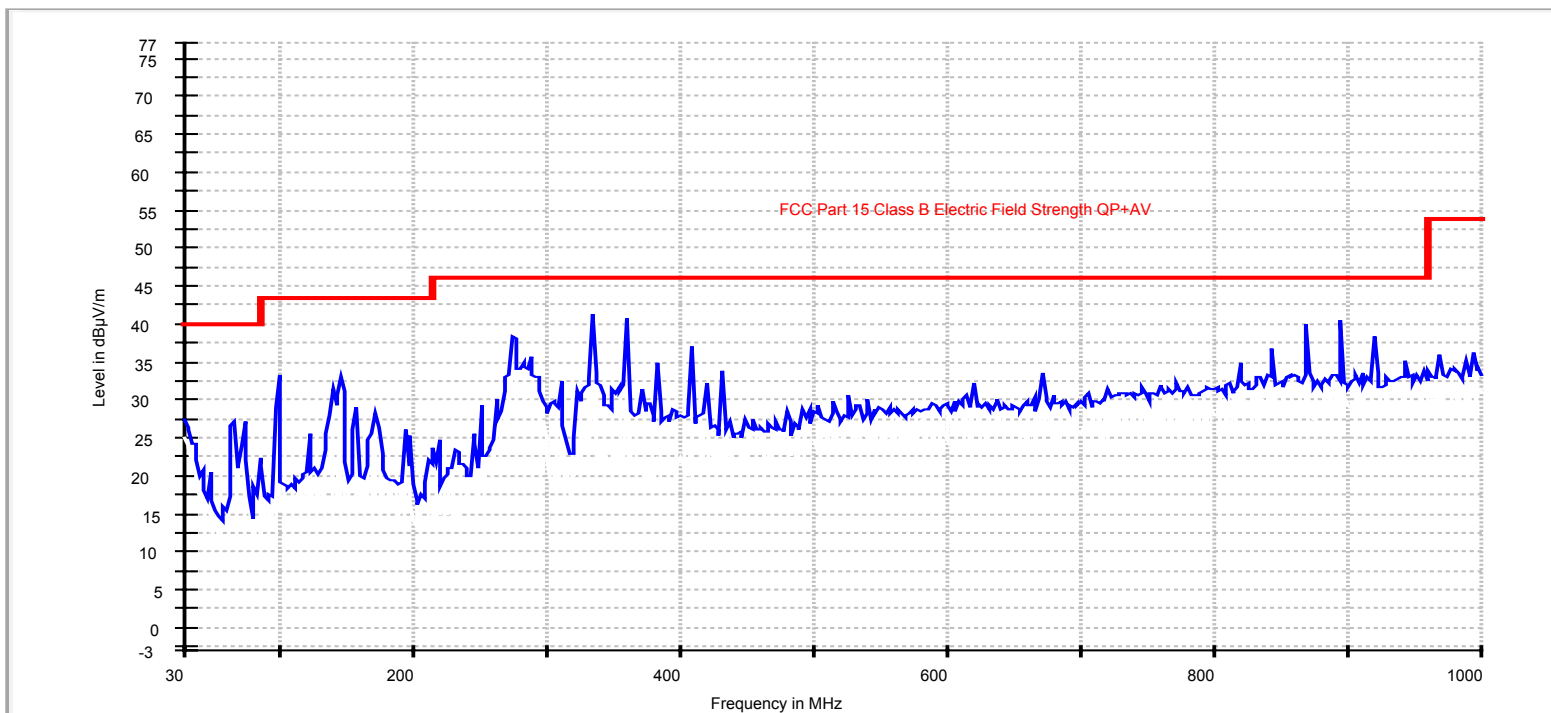
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
57. F is fundamental.
58. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
147.356713	32.9	38.3	43.5	-10.6	Z	289.0	171.0	H	PASS
148.993988	31.1	34.2	43.5	-12.4	Z	272.0	189.0	H	PASS
276.072144	35.3	39.0	46.0	-10.7	Z	272.0	189.0	H	PASS
336.072144	37.9	41.4	46.0	-8.1	Z	100.0	160.0	H	PASS
360.040080	39.4	41.9	46.0	-6.6	Z	280.0	95.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 99.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBµV/m

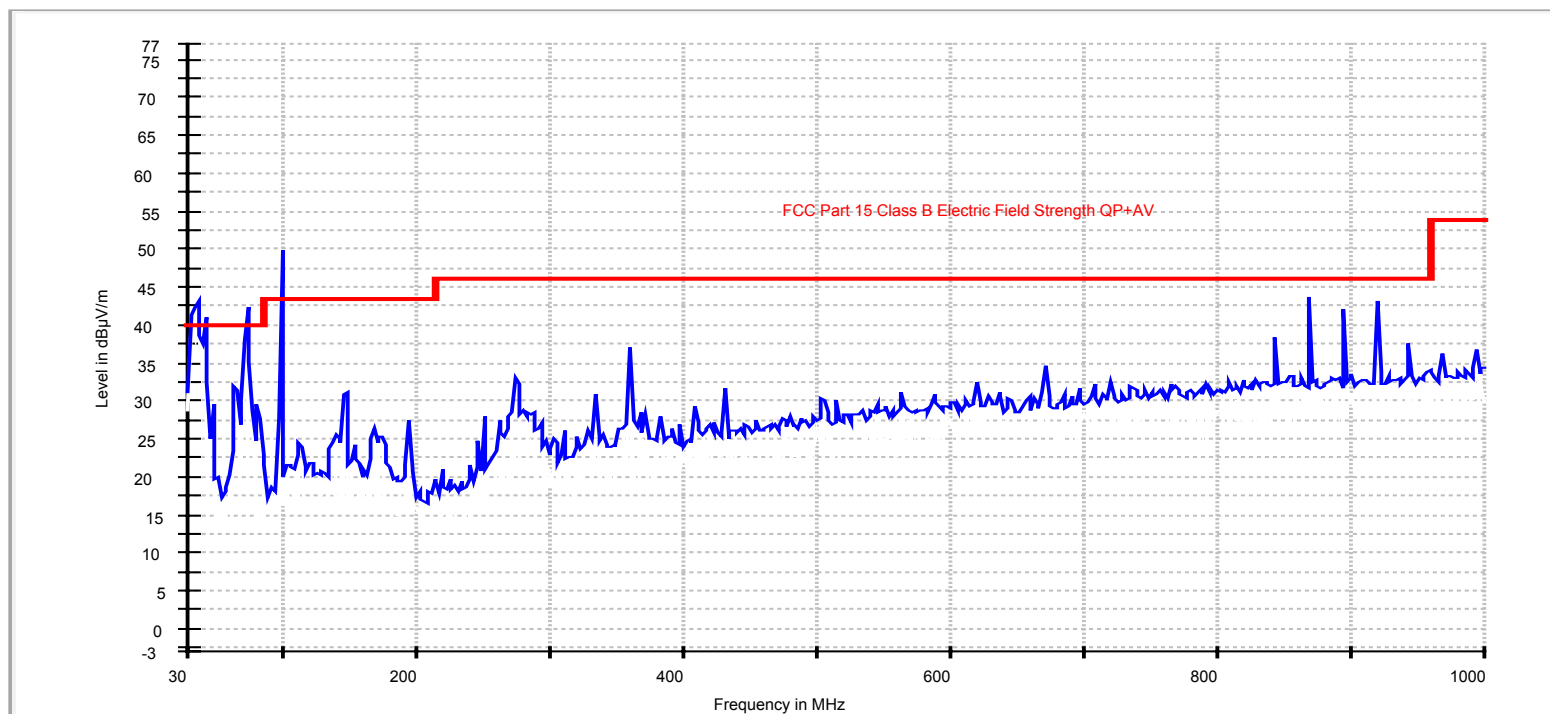
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
59. F is fundamental.
60. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.777555	37.9	44.9	40.0	-2.1	Z	8.0	95.0	V	PASS
43.266533	34.8	43.2	40.0	-5.2	Z	8.0	95.0	V	PASS
74.468938	39.9	43.7	40.0	-0.1	Z	116.0	148.0	V	PASS
276.032064	29.6	33.1	46.0	-16.4	Z	115.0	162.0	V	PASS
360.040080	35.3	37.3	46.0	-10.7	Z	333.0	150.0	V	PASS

Frequency 107.9 MHz

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

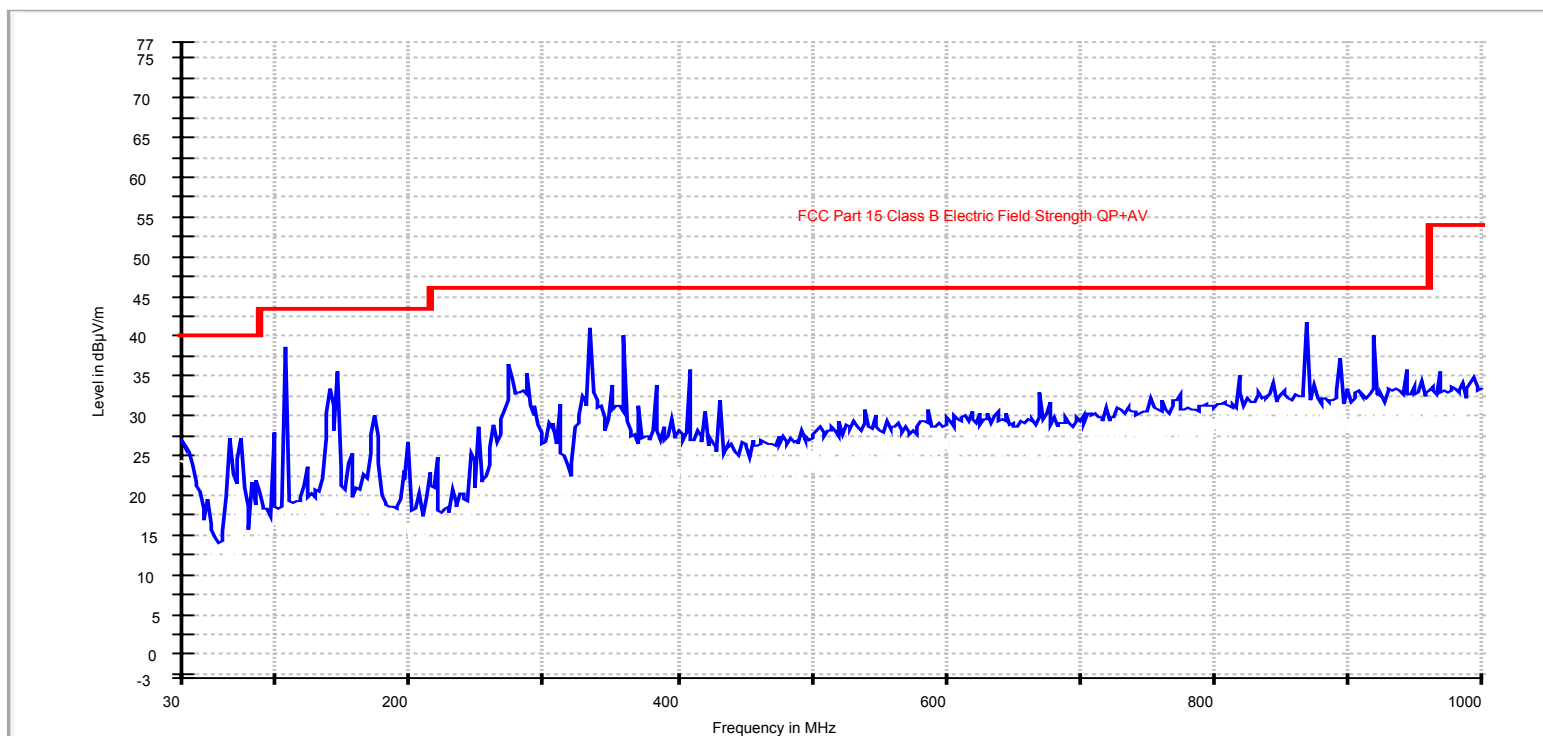
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
61. F is fundamental.
62. R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
147.356713	35.1	38.2	43.5	-8.4	Z	289.0	171.0	H	PASS
276.172345	31.5	35.0	46.0	-14.5	Z	280.0	95.0	H	PASS
336.072144	37.2	40.9	46.0	-8.8	Z	32.0	95.0	H	PASS
360.040080	37.2	40.9	46.0	-8.8	Z	280.0	95.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	11.7 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

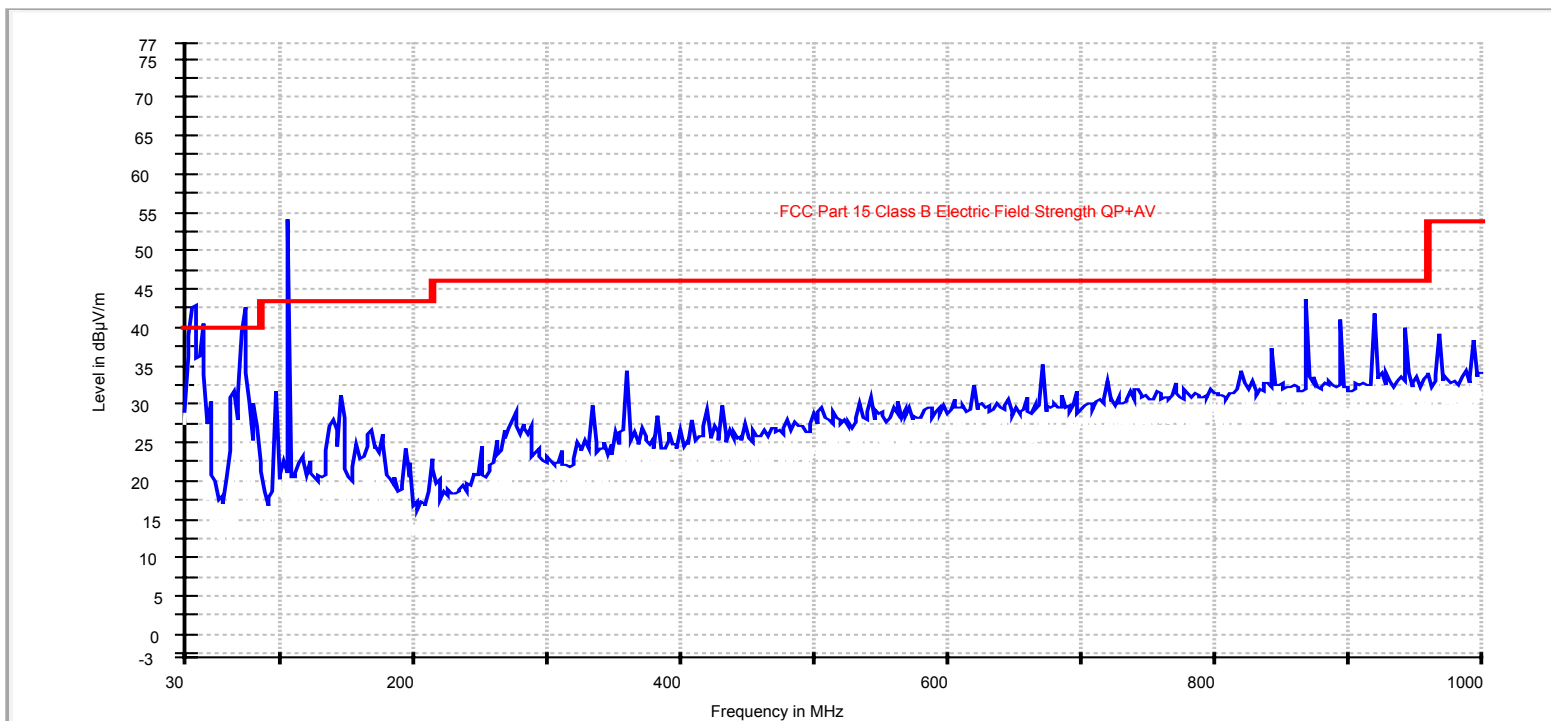
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
63. F is fundamental.
64. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.617234	37.0	43.6	40.0	-3.0	Z	8.0	95.0	V	PASS
43.667335	35.9	44.4	40.0	-4.1	Z	8.0	95.0	V	PASS
74.468938	39.9	43.4	40.0	-0.1	Z	151.0	129.0	V	PASS
276.152305	23.9	28.2	46.0	-22.1	Z	334.0	111.0	V	PASS
360.040080	33.4	35.9	46.0	-12.6	Z	18.0	231.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	13.8 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dB μ V/m

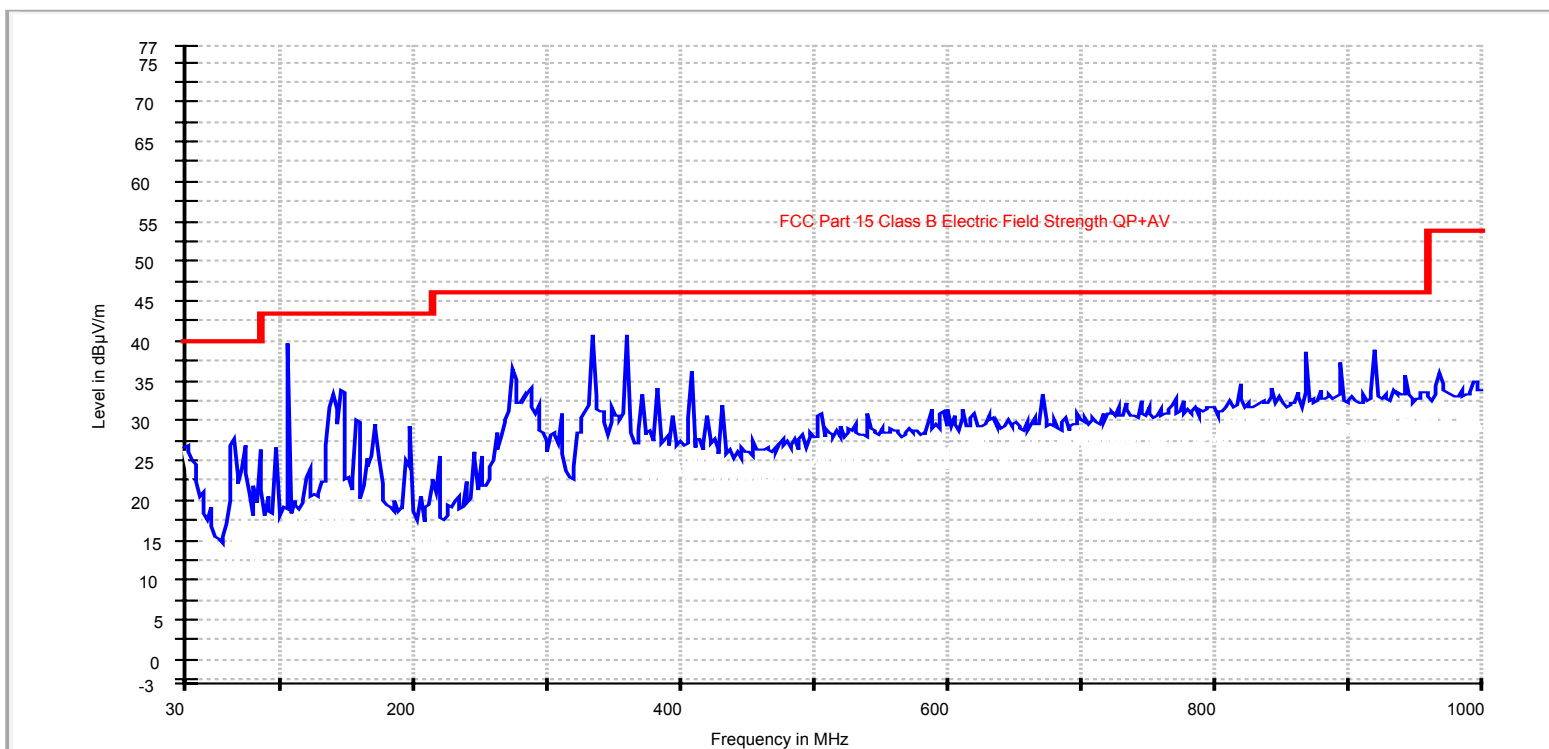
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
65. F is fundamental.
66. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	Margin (dB)	Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
148.955912	33.1	35.5	43.5	-10.4	Z	289.0	171.0	H	PASS
276.072144	33.4	37.1	46.0	-12.6	Z	280.0	95.0	H	PASS
336.072144	36.8	40.3	46.0	-9.2	Z	32.0	95.0	H	PASS
360.040080	39.0	40.9	46.0	-7.0	Z	280.0	95.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	13.8 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dB μ V/m

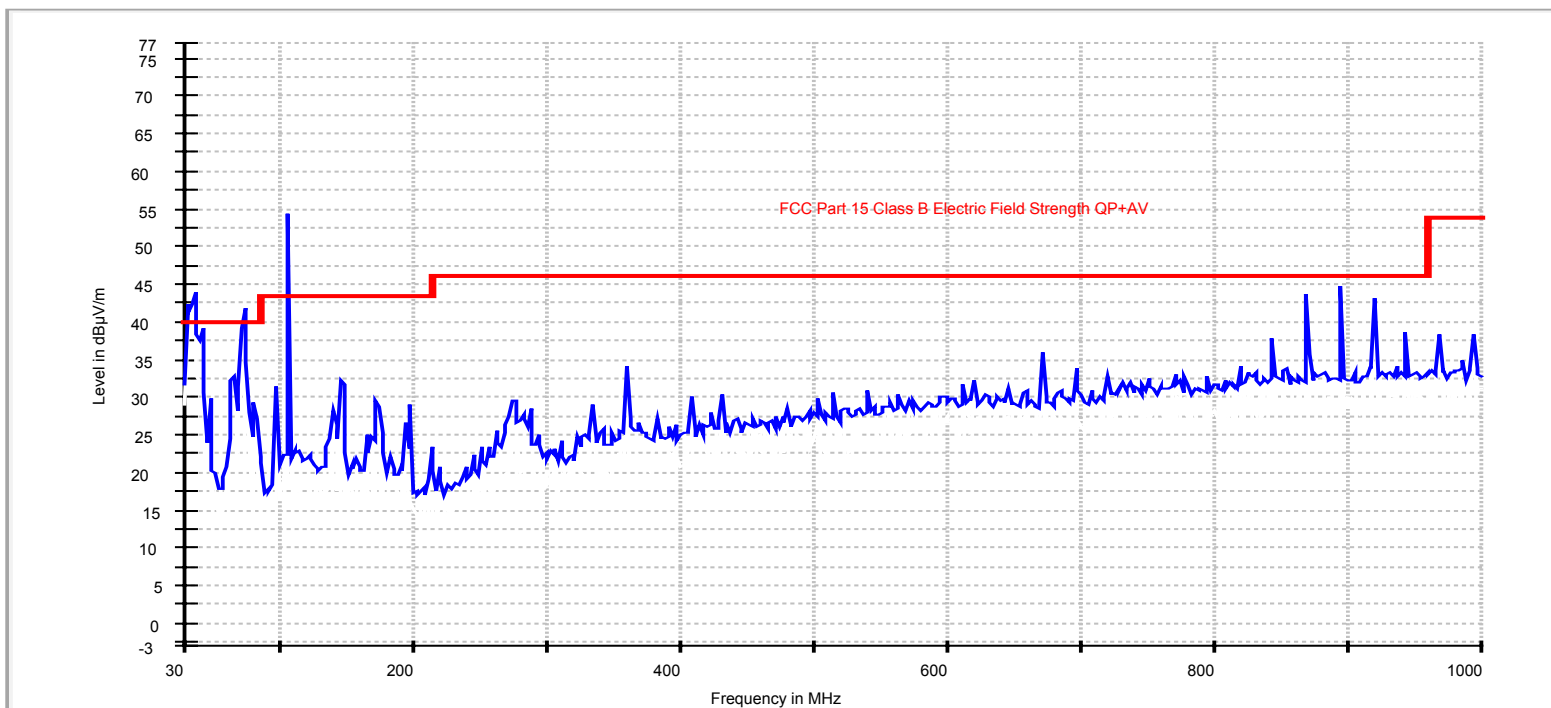
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
67. F is fundamental.
68. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	(dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.617234	38.3	45.3	40.0	-1.7	Z	8.0	95.0	V	PASS
43.426854	34.9	43.7	40.0	-5.1	Z	8.0	95.0	V	PASS
74.468938	39.2	42.6	40.0	-0.8	Z	116.0	148.0	V	PASS
276.092184	25.1	29.1	46.0	-20.9	Z	115.0	162.0	V	PASS
360.040080	32.0	34.6	46.0	-14.0	Z	333.0	150.0	V	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Horizontal Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

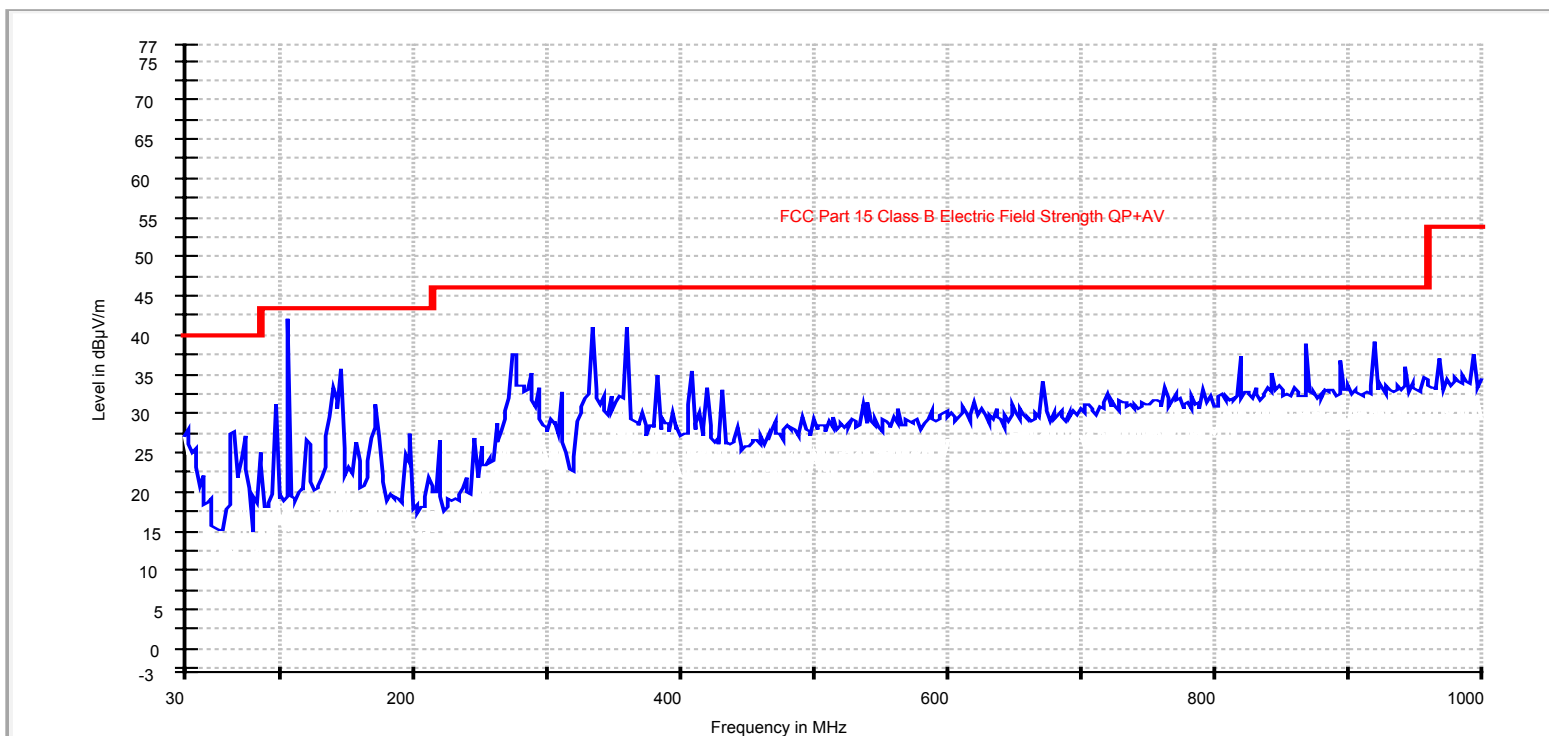
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
69. F is fundamental.
70. _R is for restricted band.

FCC_15_209 Peak

Horizontal



Result Table_Single

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	QP Limit (dBμV)	(dB)	EUT Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
147.356713	34.5	38.5	43.5	-9.0	Z	289.0	171.0	H	PASS
276.072144	34.8	37.6	46.0	-11.2	Z	280.0	95.0	H	PASS
336.072144	36.0	39.5	46.0	-10.0	Z	32.0	95.0	H	PASS
360.040080	39.5	41.4	46.0	-6.5	Z	280.0	95.0	H	PASS

Test Information

EUT Name:	FM_TX_TextCommander
Serial Number:	N/A
Test Description:	FCC_15_209
Operating Conditions:	15.9 VDC Typical Modulation 107.9 MHz
Operator Name:	Jeff Banting
Comment:	Axis-Z Vertical Polarization

Sweep Setup: FCC_15_209 Peak [EMI radiated]

Hardware Setup:	EMI 1GHz
Level Unit:	dBμV/m

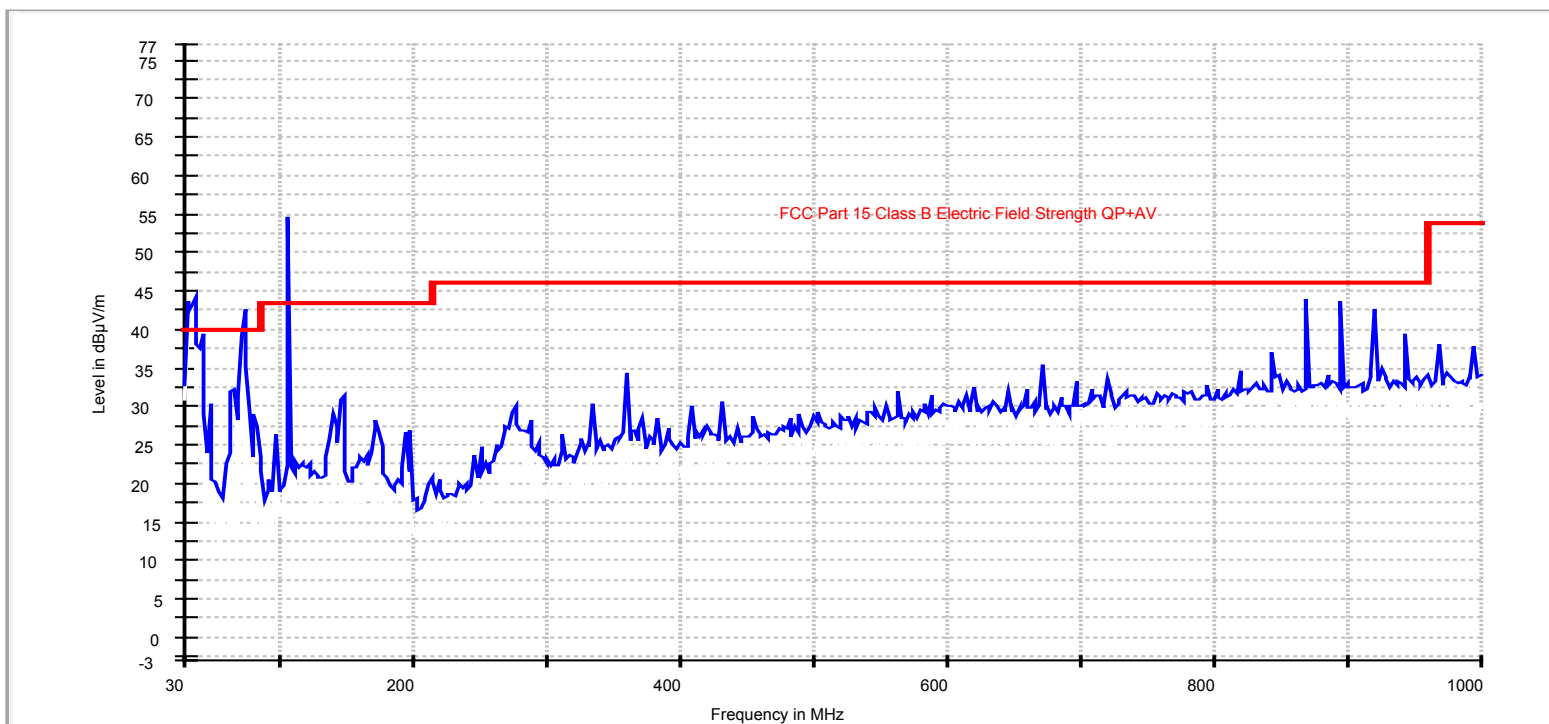
Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 1GHz	MaxPeak	120kHz	0.005s	Receiver

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dB) + *Filter Loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.209 and per 15.205.
6. * Filter is used
71. F is fundamental.
72. _R is for restricted band.

FCC_15_209 Peak

Vertical



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	QP Limit (dBµV)	Margin (dB)	Position	Azimuth (deg)	Antenna height (cm)	Polarity	Comment
38.456914	39.2	46.2	40.0	-0.8	Z	8.0	95.0	V	PASS
43.386774	35.1	43.3	40.0	-4.9	Z	8.0	95.0	V	PASS
74.468938	39.9	43.1	40.0	-0.1	Z	116.0	148.0	V	PASS
276.092184	25.4	29.5	46.0	-20.6	Z	115.0	162.0	V	PASS
360.040080	33.0	35.3	46.0	-13.0	Z	333.0	150.0	V	PASS



Report No:060140_rev.02
FCC ID: TN5DP0200SZ
IC : 6132A-DP0200SZ