

Radio Parameter Measurement Setup

Field Test

From the measurement results the minimum attenuation produced by the cow's body was determined to be 17.4 dB. Reference to the document ST Insight PAG.

Test Summary

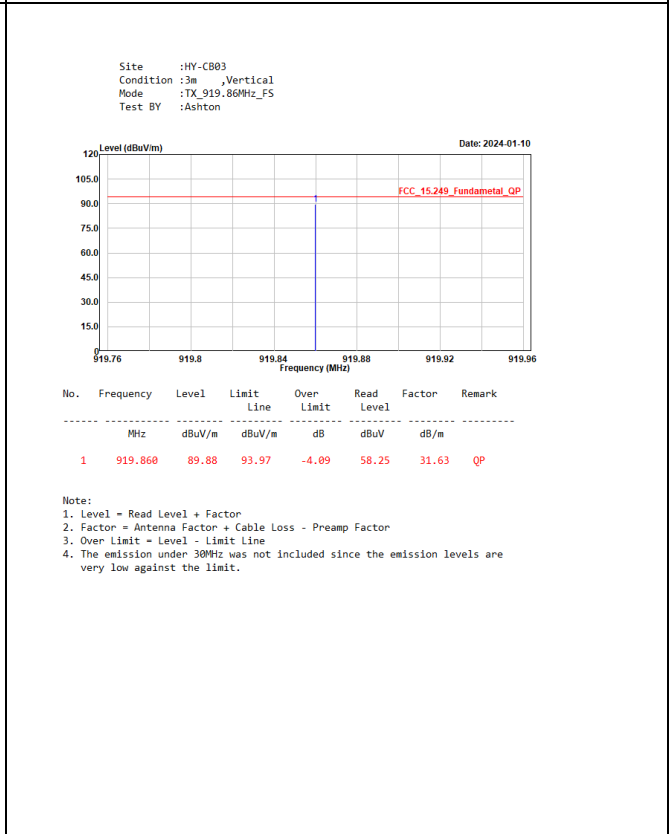
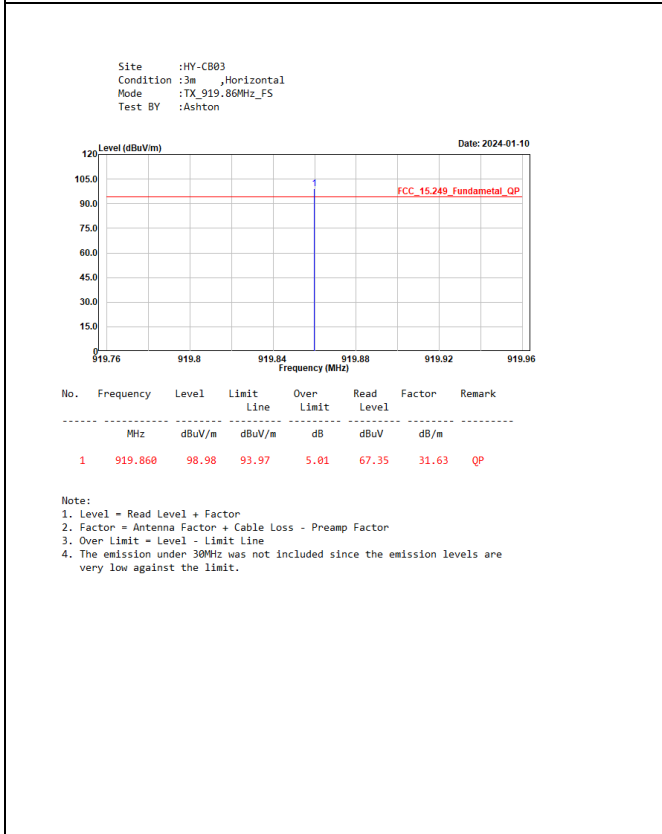
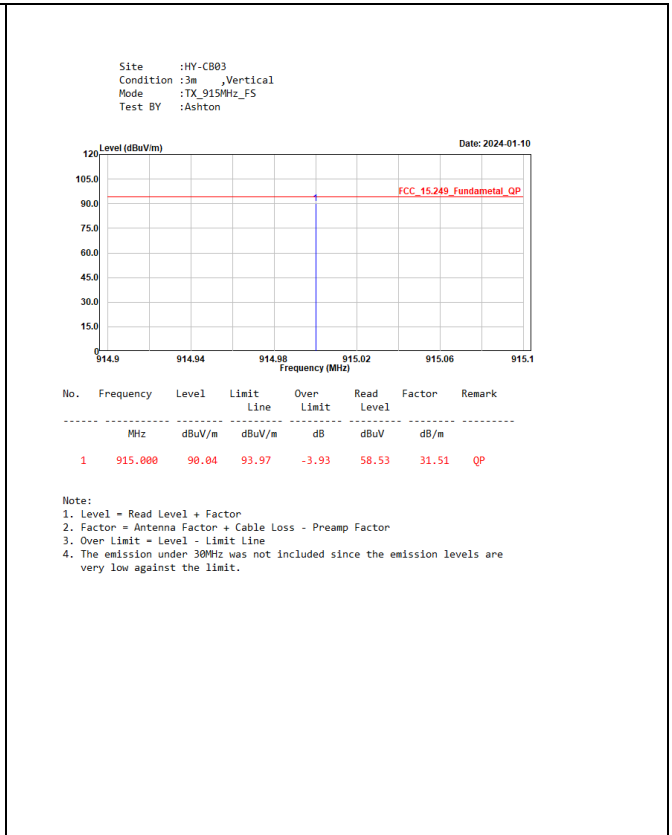
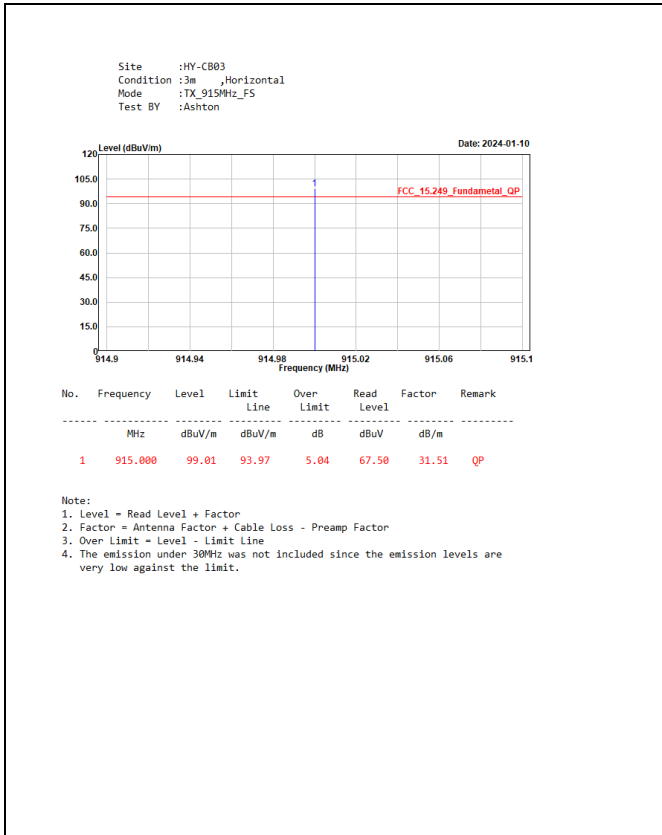
Frequency	Pol/Phase	Free Space (dBuV/m)	Phantom (dBuV/m)	Attenuation (dB)
915MHz	Horizontal	99.01	83.41	15.6
	Vertical	90.04	82.01	8.03
Frequency	Pol/Phase	Free Space (dBuV/m)	Phantom (dBuV/m)	Attenuation (dB)
919.86MHz	Horizontal	98.98	82.62	16.36
	Vertical	89.88	78.82	11.06

From the measurement results, the attenuation of the worst case between Phantom solution and Free Space is 16.36 dB.

Test liquid : Distilled Water

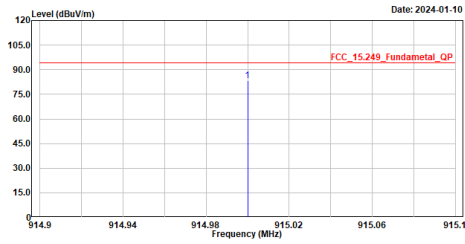
Test fixture : Constructed Plastic 10 Litre Pail

Test Result of Field Strength of Fundamental Free Space



Phantom

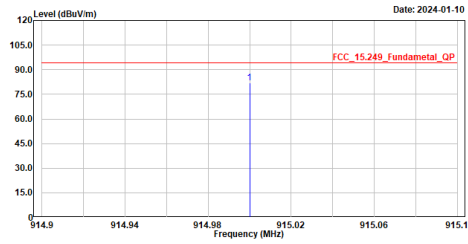
Site :HY-CB03
 Condition :3m ,Horizontal
 Mode :TX_915MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	915.000	83.41	93.97	-10.56	51.90	31.51	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.

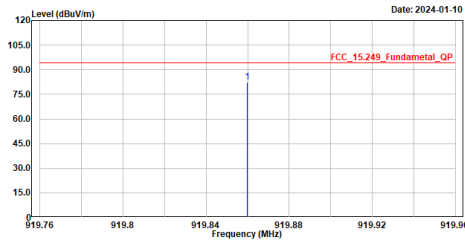
Site :HY-CB03
 Condition :3m ,Vertical
 Mode :TX_915MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	915.000	82.01	93.97	-11.96	50.50	31.51	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.

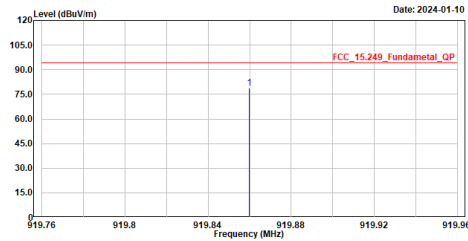
Site :HY-CB03
 Condition :3m ,Horizontal
 Mode :TX_919.86MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	919.860	82.62	93.97	-11.35	50.99	31.63	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
 Condition :3m ,Vertical
 Mode :TX_919.86MHz
 Test BY :Ashton

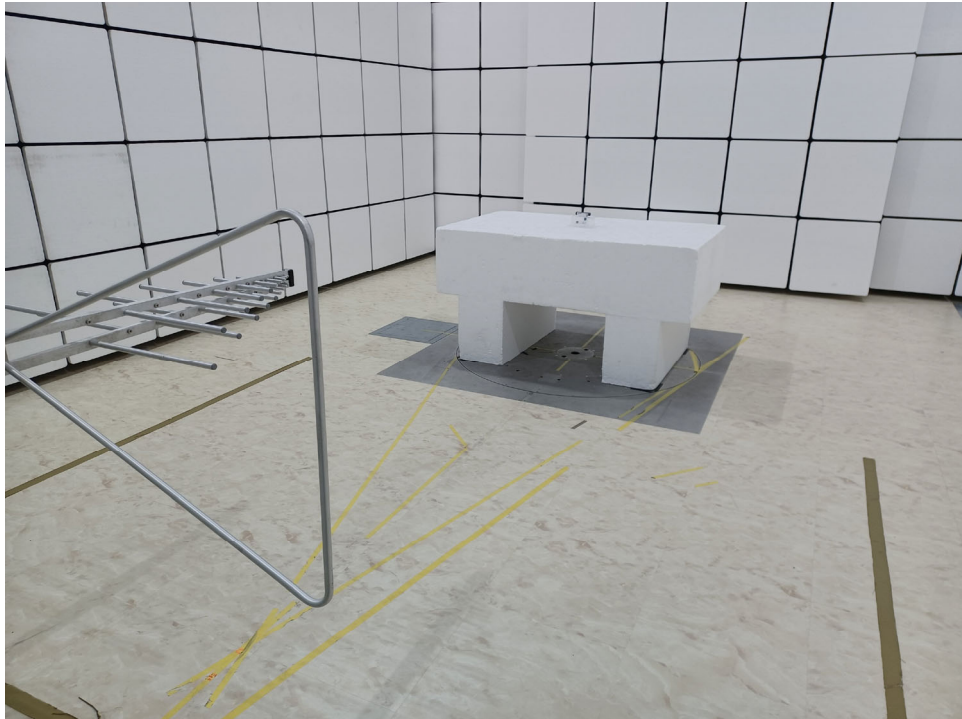


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	919.860	78.82	93.97	-15.15	47.19	31.63	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Test Setup Photograph

Radiated Test (Free Space)



Radiated Test (Phantom)

