

Conducted Emissions

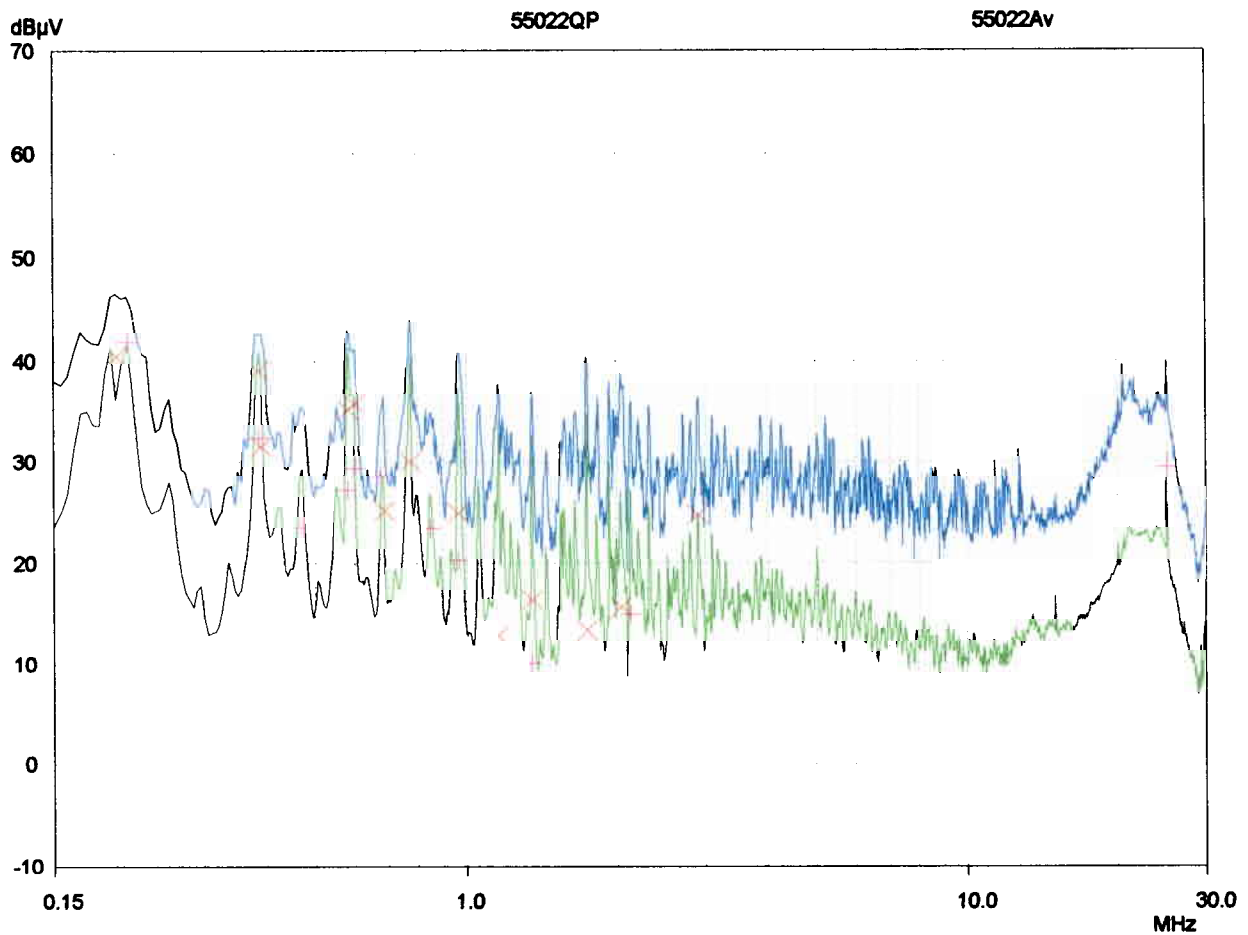
EUT: SBS -1
 Manuf: Kinetic Avionic Products Ltd
 Op Cond: 230V 50Hz
 Operator: Bernie McEwen
 Test Spec: EN55022B
 Comment: Receiving.

Result File: 7678c01.dat : Kinetic Avionic Products SBS-1. Conducted 55022B

Scan Settings			(1 Range)		Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Transducer	No.	Start	Stop	Name
2	20	9kHz	30MHz	8157
	21	9kHz	30MHz	LISN7473

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Subranges: 50
 Acc Margin: 20 dB



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Start	Stop							
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

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	21	9kHz	30MHz	LISN7473

Final Measurement: Detectors: X QP / + AV
 Mess Time: 1sec
 Subranges: 50
 Acc Margin: 20 dB

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.2	40.46	63.61	23.15	N	fl
0.21	44.62	63.21	18.59	N	fl
0.385	39.09	58.17	19.08	L1	fl
0.39	31.51	58.08	26.55	L1	fl
0.58	35.08	56.00	20.92	L1	fl
0.595	35.80	56.00	20.20	L1	fl
0.685	25.16	56.00	30.84	L1	fl
0.775	30.06	56.00	25.94	N	fl
0.965	24.95	56.00	31.05	L1	fl
1.16	12.83	56.00	43.07	L1	fl
1.35	16.39	56.00	39.61	N	fl
1.74	13.33	56.00	42.67	N	fl
2.035	15.65	56.00	40.35	L1	fl
2.9	24.76	56.00	31.24	N	fl

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.195	29.76	56.17	26.41	N	fl
0.21	41.85	55.37	13.52	L1	fl
0.385	32.30	48.82	16.52	L1	fl
0.39	22.19	48.68	26.49	L1	fl
0.47	23.56	46.67	23.11	L1	fl
0.58	27.20	46.00	18.80	L1	fl
0.595	29.42	46.00	16.58	L1	fl

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

Frequency MHz	AV Level dB μ V	AV Limit dB μ V	AV Delta dB	Phase -	PE -
0.675	28.59	46.00	17.41	L1	fl
0.775	20.73	46.00	25.27	N	fl
0.85	23.47	46.00	22.53	L1	fl
0.965	20.25	46.00	25.75	L1	fl
1.06	11.33	46.00	34.67	N	fl
1.16	4.96	46.00	41.02	N	fl
1.35	10.15	46.00	35.85	N	fl
1.65	10.59	46.00	35.41	N	fl
1.74	5.47	46.00	40.53	L1	fl
1.925	4.53	46.00	41.47	N	fl
2.125	14.92	46.00	31.08	N	fl
25.0	29.39	50.00	20.61	L1	fl

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

Conducted Emissions

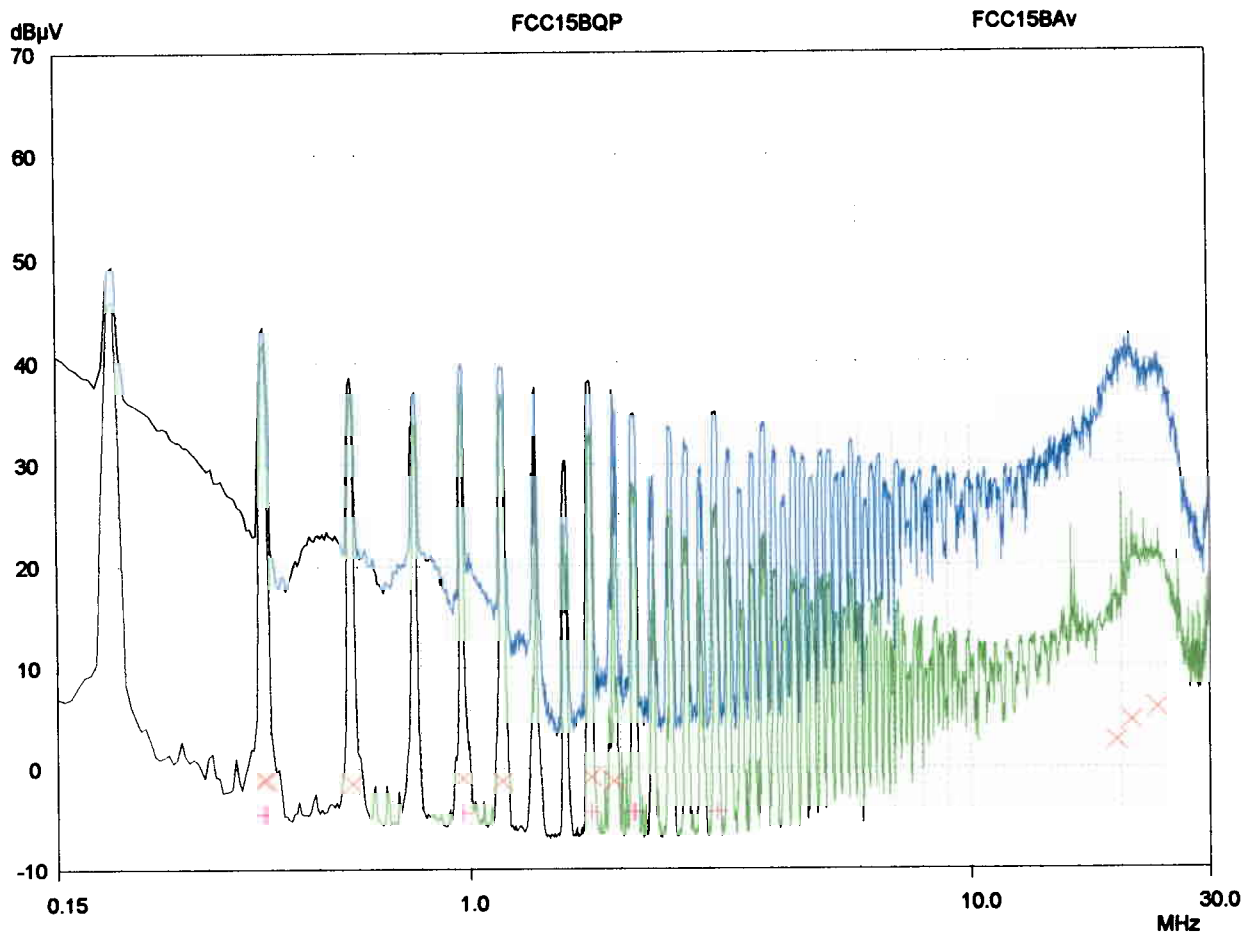
EUT: SBS -1
 Manuf: Kinetic Avionic Products Ltd
 Op Cond: 115V 60Hz
 Operator: Bernie McEwen
 Test Spec: FCC Part 15 B
 Comment: Receiving.

Result File: 7678c02.dat : Kinetic Avionic Products SBS-1. Conducted FCC Part 15 B

Scan Settings (1 Range)					Receiver Settings			
Frequencies		Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
Start	Stop							
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Transducer	No.	Start	Stop	Name
2	20	9kHz	30MHz	8157
	21	9kHz	30MHz	LISN7473

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Subranges: 50
 Acc Margin: 20 dB



Conducted Emissions

EUT: SBS -1
 Manuf: Kinetic Avionic Products Ltd
 Op Cond: 115V 60Hz
 Operator: Bernie McEwan
 Test Spec: FCC Part 15 B
 Comment: Receiving.

Result File: 7678c02.dat : Kinetic Avionic Products SBS-1. Conducted FCC Part 15 B

Scan Settings			(1 Range)		Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Transducer	No.	Start	Stop	Name
2	20	9kHz	30MHz	8157
	21	9kHz	30MHz	LISN7473

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Subranges: 50
 Acc Margin: 20 dB

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.195	-1.73	63.82	65.55	L1	fl
0.385	-1.26	58.17	59.43	N	fl
0.39	-1.15	58.06	59.21	L1	fl
0.58	-1.51	56.00	57.51	L1	fl
0.78	-1.47	56.00	57.47	L1	fl
0.965	-1.04	56.00	57.04	L1	fl
1.155	-1.32	56.00	57.32	N	fl
1.36	-1.35	56.00	57.35	L1	fl
1.745	-0.93	56.00	56.93	N	fl
1.935	-1.34	56.00	57.34	L1	fl
19.5	2.55	60.00	57.45	N	fl
20.9	4.64	60.00	55.36	L1	fl
23.56	5.88	60.00	54.12	N	fl

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.195	-4.60	56.17	60.77	L1	fl
0.385	-4.53	48.82	53.35	N	fl
0.39	-4.56	48.68	53.24	L1	fl
0.58	-4.53	46.00	50.53	N	fl
0.775	-4.53	46.00	50.53	L1	fl
0.965	-4.45	46.00	50.45	L1	fl
1.165	-4.41	46.00	50.41	N	fl
1.355	-4.41	46.00	50.41	N	fl

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

Final Measurement Results (continued)

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Frequency MHz	AV Level dB μ V	AV Limit dB μ V	AV Delta dB	Phase -	PE -
1.745	-4.39	46.00	50.39	N	fl
2.115	-4.43	46.00	50.43	N	fl
2.13	-4.39	46.00	50.39	N	fl
3.11	-4.37	46.00	50.37	L1	fl

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

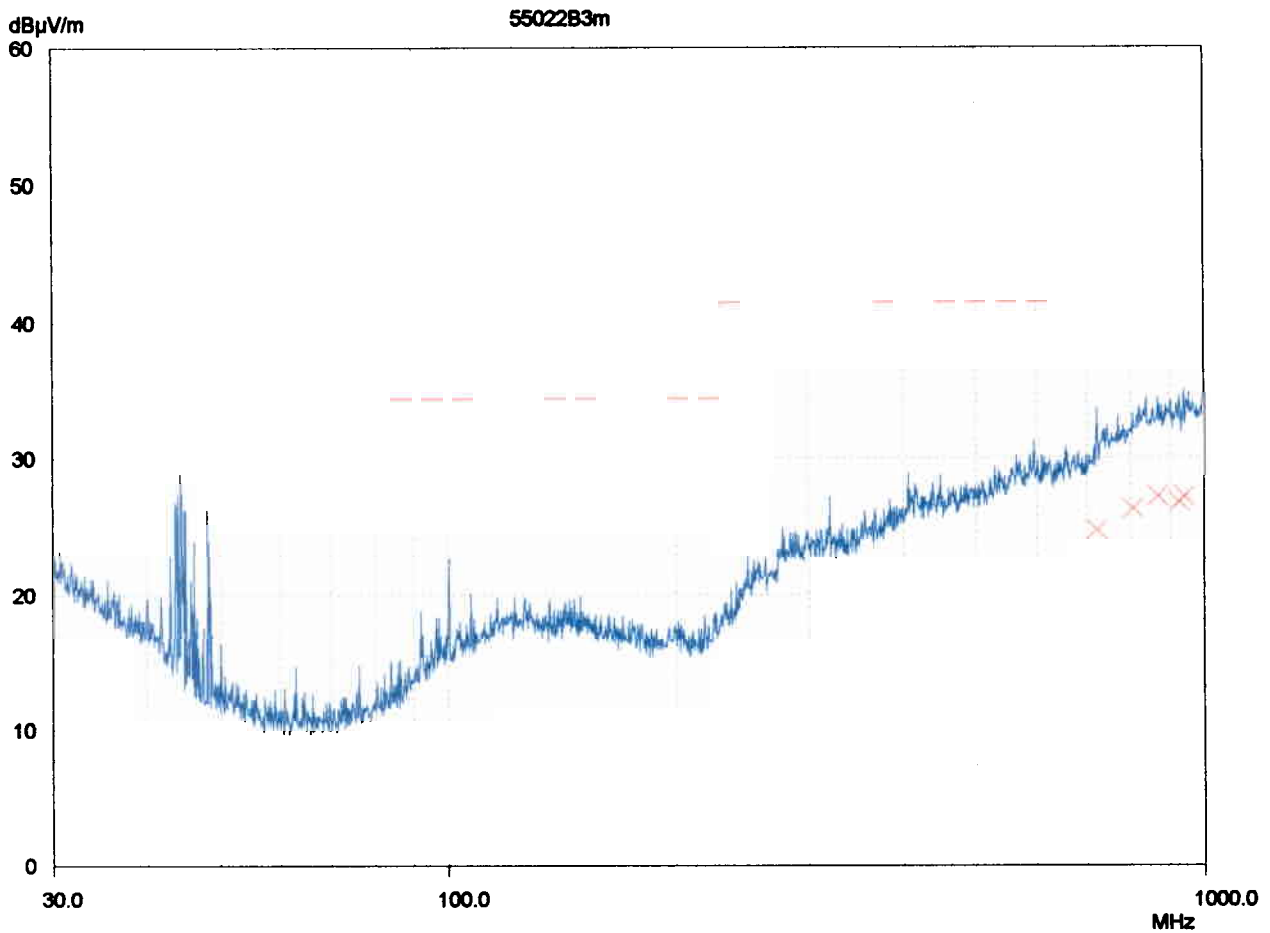
Radiated Emissions. GSM Bay

EUT: SBS - 1
 Manuf: Kinetic Avionic Products Limited
 Op Cond: 230V 50Hz
 Operator: Bernie McEwen
 Test Spec: EN55022:B
 Comment: Horizontal & Vertical; four sides
 QP maximised
 Result File: 7678r01.dat : Kinetic Avionic Products SBS-1. Radiated 55022B at 3m fixed. GSM

Scan Settings (2 Ranges)			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30MHz	300MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB
300MHz	1000MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB

See following page for transducer set listing.

Final Measurement: Detector: X QP
 Mess Time: 1sec
 Subranges: 50
 Acc Margin: 10 dB



Radiated Emissions. GSM Bay

EUT: SBS - 1
 Manuf: Kinetic Avionic Products Limited
 Op Cond: 230V 50Hz
 Operator: Bernie McEwen
 Test Spec: EN55022:B
 Comment: Horizontal & Vertical; four sides
 QP maximised
 Result File: 7678r01.dat : Kinetic Avionic Products SBS-1. Radiated 55022B at 3m fixed. GSM

Scan Settings (2 Ranges)

Frequencies				Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30MHz	300MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB
300MHz	1000MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB

Transducer	No.	Start	Stop	Name
1	18	30MHz	1000MHz	B540B
	19	30MHz	1000MHz	7276
	22	30MHz	1000MHz	Green

Final Measurement: Detector: X QP
 Meas Time: 1sec
 Subranges: 50
 Acc Margin: 10 dB

Final Measurement Results

Frequency MHz	QP Level dBµV/m	QP Limit dBµV/m	QP Delta dB
44.22	9.09	34.46	25.37
48.0	7.73	34.46	26.73
719.64	24.72	41.46	16.74
803.28	26.25	41.46	15.21
865.98	27.14	41.46	14.32
924.42	26.72	41.46	14.74
937.92	27.14	41.46	14.32

* limit exceeded

Radiated Emissions. GSM Bay

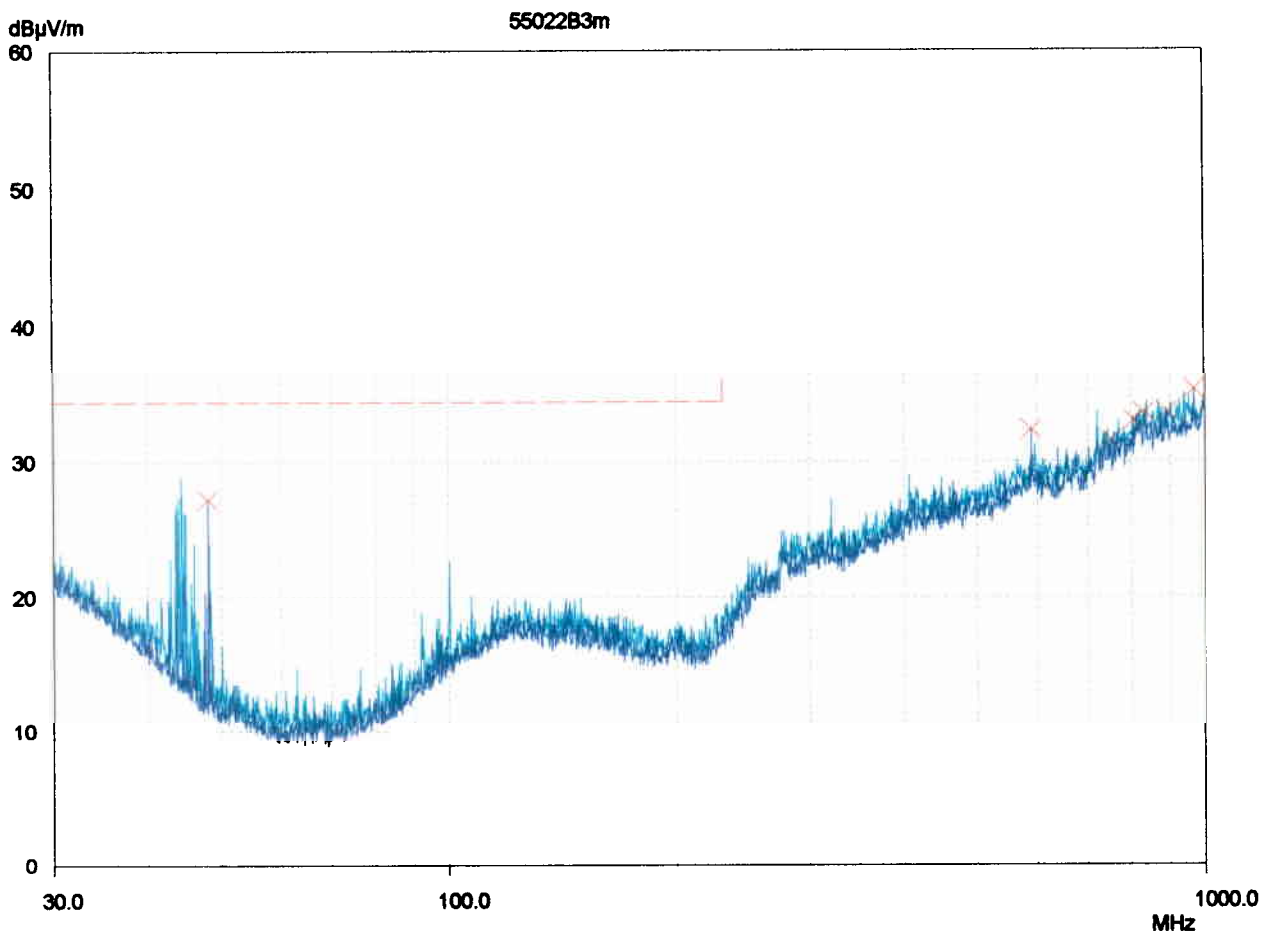
EUT: SBS - 1
 Manuf: Kinetic Avionic Products Limited
 Op Cond: 230V 50Hz
 Operator: Bernie McEwen
 Test Spec: EN55022:B
 Comment: Vertical back. "Blue LED" USB cable connected. Laptop powered.
 QP maximised
 Result File: 7678r02.dat : Kinetic Avionic Products SBS-1. Radiated 55022B at 3m fixed. GSM "Blue LED" USB cable

Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30MHz	300MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB
300MHz	1000MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB

See following page for transducer set listing.

Prescan Measurement: Detector: X PK
 Mess Time: see scan settings
 Subranges: 50
 Acc Margin: 10 dB



Radiated Emissions. GSM Bay

EUT: SBS - 1
 Manuf: Kinetic Avionic Products Limited
 Op Cond: 230V 50Hz
 Operator: Bernie McEwen
 Test Spec: EN55022:B
 Comment: Vertical back. "Blue LED" USB cable connected. Laptop powered.
 QP maximised
 Result File: 7878r02.dat : Kinetic Avionic Products SBS-1. Radiated 55022B at 3m fixed. GSM "Blue LED" USB cable

Scan Settings (2 Ranges)

Frequencies				Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30MHz	300MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB
300MHz	1000MHz	60kHz	120kHz	PK	20msec	0 dB	OFF	60dB

Transducer	No.	Start	Stop	Name
1	18	30MHz	1000MHz	B540B
	19	30MHz	1000MHz	7276
	22	30MHz	1000MHz	Green

Prescan Measurement: Detector: X PK
 Meas Time: see scan settings
 Subranges: 50
 Acc Margin: 10 dB

Peak Search Results

Frequency MHz	PK Level dBµV/m	PK Limit dBµV/m	PK Delta dB	Ref. Offset dB
48.06	27.18	34.46	7.28	-15.17
589.14	32.29	41.46	9.17	-4.63
750.54	31.53	41.46	9.93	-1.07
805.2	32.98	41.46	8.48	-2.95
829.98	33.62	41.46	7.84	-1.80
860.82	33.63	41.46	7.83	-1.62
965.7	35.37	41.46	6.09	-4.66

* limit exceeded