



較正完了通知書

Completion Notice of Calibration

申請者	Customer	:	Intertek Japan K.K.
所在地	Address	:	茨城県神栖市砂山3番地2
機器種別	Type of Instrument(s)	:	電界強度測定器 (受信器)
製造者	Manufacturer	:	Rohde&Schwarz
型式	Model No.	:	ESS
製造番号	Serial No.	:	844861/008
較正完了日	Calibration Date	:	Dec. xx, 2012
発行日	Date of Issue	:	Dec. xx, 2012
通知書番号	Notice No.	:	JC12120xxx
温度	Temperature	:	24 Degree C
湿度	Humidity	:	60 % RH
較正方法	Calibration Procedure No.	:	RJP-CA018
備考	Note	:	

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Intertek Japan K.K. certifies that the above instrument was calibrated in accordance with applicable our calibration rule and calibration procedure.

Katsuyuki Tanakajima

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較 正 結 果

Calibration Report

機 器 種 別	Type of Instrument(s)	: 電界強度測定器 (受信器)
製 造 者	Manufacture	: Rohde&Schwarz
型 式	Model No.	: ESS
製 造 番 号	Serial No.	: 844861/008
較 正 完 了 日	Calibration Date	: Dec. xx, 2012
較 正 場 所	Calibration Place	: Calibration room
備 考	Note	:

No.	Category・Standard / Calibration method
1	正弦波電圧(周波数応答)
2	正弦波電圧(直線性)
3	総合選択度
4	中間周波数除去比
5	イメージ周波数除去比
6	スプリアス応答
7	ランダム雑音

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Remarks :

Calibration Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Expiry Date	Calibrated by
Power Meter	Agilent	E4418B	GB38410272	Apr. 2013	NICT
Power Sensor	Agilent	E9304A	MY41498609	Apr. 2013	NICT
Frequency standard	Spectracom	6689/011			NICT
Standard Signal Generator	Rohde&Schwarz	SMA100A	101599	Jun. 2012	Intertek

Calibration Uncertainty (Reported uncertainties represent expanded uncertainties expressed at approximately 95% confidence level using a coverage factor of $k=2$.)			
No.	Category · Standard	Frequency	
1, 2	正弦波電圧(周波数応答)、正弦波電圧(直線性)	9 kHz to 4 GHz	0.39 [dB]
		4 GHz to 18 GHz	1.3 [dB]
3	総合選択度	9 kHz to 4 GHz	1.3 [dB]
4	中間周波数除去比	9 kHz to 4 GHz	1.3 [dB]
5	イメージ周波数除去比	9 kHz to 4 GHz	1.3 [dB]
6	スプリアス応答	9 kHz to 4 GHz	1.3 [dB]
7	ランダム雑音	9 kHz to 4 GHz	0.31 [dB]

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1. 正弦波電圧 (周波数応答)

Settings			
RF Input Level:	80 [dB μ V]	Preamp:	Off
RF ATT:	AUTO [dB]	Mode:	-
IF ATT:	AUTO [dB]	Indication:	dB μ V
Meas. Time:	1 [s]		

1.1 Detector: Quasi-Peak

Tuned Freq. [MHz]	Ref. [dB μ V]	Measured [dB μ V]	Dev. [dB]	IF BW [kHz]	Remarks
0.009	79.58	80.13	0.55	0.2	
0.100	79.95	80.52	0.57	0.2	
1.000	79.80	79.29	-0.51	10.0	
10.000	79.93	79.53	-0.40	10.0	
30.000	79.88	80.11	0.23	120.0	
50.000	79.86	80.10	0.24	120.0	
100.000	79.82	80.08	0.26	120.0	
300.000	79.79	80.51	0.72	120.0	
500.000	79.71	80.65	0.94	120.0	
1000.000	79.48	80.16	0.68	120.0	

SAMPLE

1.2 Detector: Average

Tuned Freq. [MHz]	Ref. [dB μ V]	Measured [dB μ V]	Dev. [dB]	IF BW [kHz]	Remarks
0.009	79.62	79.68	0.06	0.2	
0.100	79.97	80.05	0.08	0.2	
1.000	79.81	79.88	0.07	10.0	
10.000	79.93	80.13	0.20	10.0	
30.000	79.88	79.50	-0.38	120.0	
50.000	79.87	79.50	-0.37	120.0	
100.000	79.82	79.48	-0.34	120.0	
300.000	79.79	79.90	0.11	120.0	
500.000	79.71	80.01	0.30	120.0	
1000.000	79.48	79.53	0.05	120.0	

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1.3 Detector: Peak

Tuned Freq. [MHz]	Ref. [dB μ V]	Measured [dB μ V]	Dev. [dB]	IF BW [kHz]	Remarks
0.009	79.62	79.96	0.34	0.2	
0.100	79.97	80.21	0.24	0.2	
1.000	79.81	79.89	0.08	10.0	
10.000	79.93	80.12	0.19	10.0	
30.000	79.87	79.58	-0.29	120.0	
50.000	79.87	79.59	-0.28	120.0	
100.000	79.82	79.56	-0.26	120.0	
300.000	79.79	80.00	0.21	120.0	
500.000	79.71	80.14	0.43	120.0	
1000.000	79.47	79.66	0.19	120.0	

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2. 正弦波電圧（直線性）

Settings			
RF Input Level: See Nominal		Preamp:	Off
RF ATT:	AUTO [dB]	Mode:	-
IF ATT:	AUTO [dB]	Indication:	dB μ V
Meas. Time:	1 [s]	Detector:	Quasi-Peak

Tuned Freq. 100kHz

Nominal [dB μ V]	Measured [dB]	IF BW [kHz]	
40	40.62	0.2	
50	50.62	0.2	
60	60.59	0.2	
70	70.58	0.2	

Tuned Freq. 10MHz

Nominal [dB μ V]	Measured [dB]	IF BW [kHz]	
40	39.68	10.0	
50	49.67	10.0	
60	59.72	10.0	
70	69.74	10.0	

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Tuned Freq. 100MHz

Nominal [dB μ V]	Measured [dB]	IF BW [kHz]	
40	40.14	120.0	
50	50.22	120.0	
60	60.24	120.0	
70	70.32	120.0	

Tuned Freq. 700MHz

Nominal [dB μ V]	Measured [dB]	IF BW [kHz]	
40	40.64	120.0	
50	50.65	120.0	
60	60.68	120.0	
70	70.78	120.0	

Tuned Freq. 1000MHz

Nominal [dB μ V]	Measured [dB]	IF BW [kHz]	
40	40.07	120.0	
50	50.03	120.0	
60	59.85	120.0	
70	69.99	120.0	

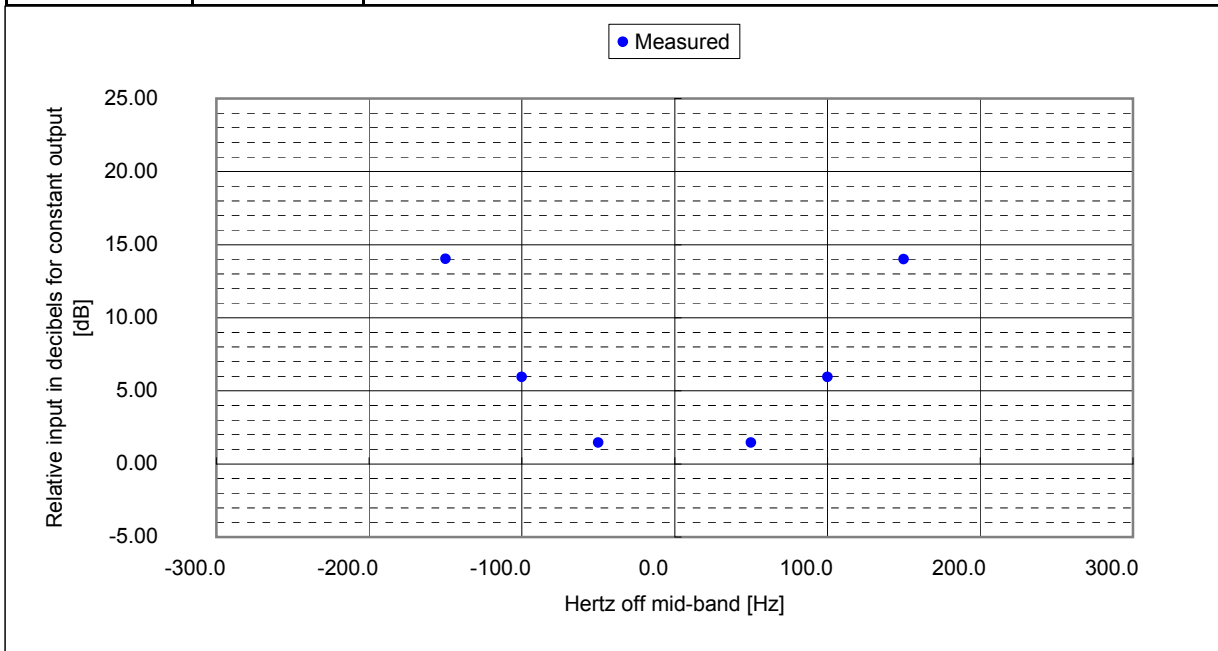
3. 総合選択度

Settings			
RF Input Level:	60 [dB μ V]	Preamp:	Off
RF ATT:	AUTO [dB]	Mode:	-
IF ATT:	AUTO [dB]	Indication:	dB μ V
Meas. Time:	1 [s]	Detector:	Quasi-Peak

3.1 0.1MHz

Hertz off mid-band Δf [Hz]	Measured [dB]
-220.0	34.24
-200.0	27.14
-150.0	14.03
-100.0	5.94
-50.0	1.47
50.0	1.47
100.0	5.94
150.0	14.01
200.0	27.12
220.0	34.24

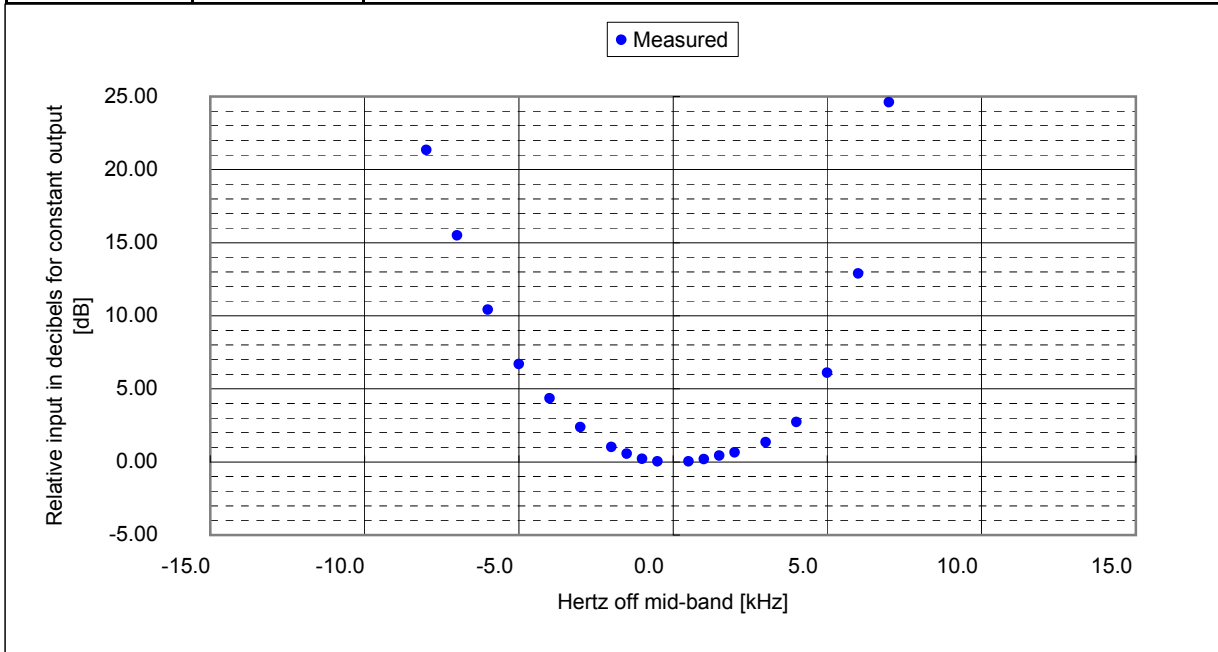
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3.2 10MHz

Hertz off mid-band Δf [kHz]	Measured [dB]
-10.0	33.22
-9.0	27.47
-8.0	21.35
-7.0	15.49
-6.0	10.42
-5.0	6.69
-4.0	4.35
-3.0	2.39
-2.0	1.03
-1.5	0.56
-1.0	0.22
-0.5	0.04
0.5	0.04
1.0	0.20
1.5	0.42
2.0	0.66
3.0	1.35
4.0	2.73
5.0	6.11
6.0	12.88
7.0	24.61
8.0	46.73
9.0	41.01
10.0	41.18

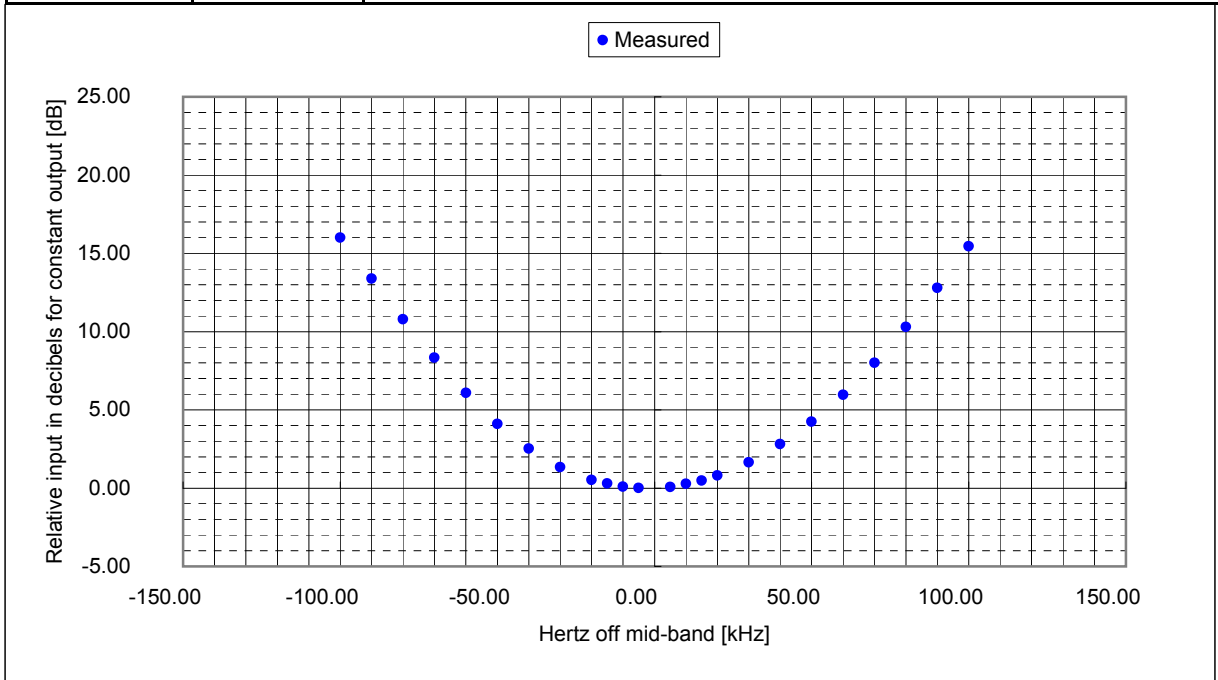
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3.3 100MHz

Hertz off mid-band Δf [kHz]	Measured [dB]
-140.00	25.96
-100.00	16.00
-90.00	13.38
-80.00	10.79
-70.00	8.33
-60.00	6.09
-50.00	4.11
-40.00	2.53
-30.00	1.33
-20.00	0.53
-15.00	0.29
-10.00	0.10
-5.00	0.02
5.00	0.08
10.00	0.27
15.00	0.49
20.00	0.81
30.00	1.65
40.00	2.81
50.00	4.25
60.00	5.97
70.00	8.01
80.00	10.30
90.00	12.80
100.00	15.46
140.00	26.08

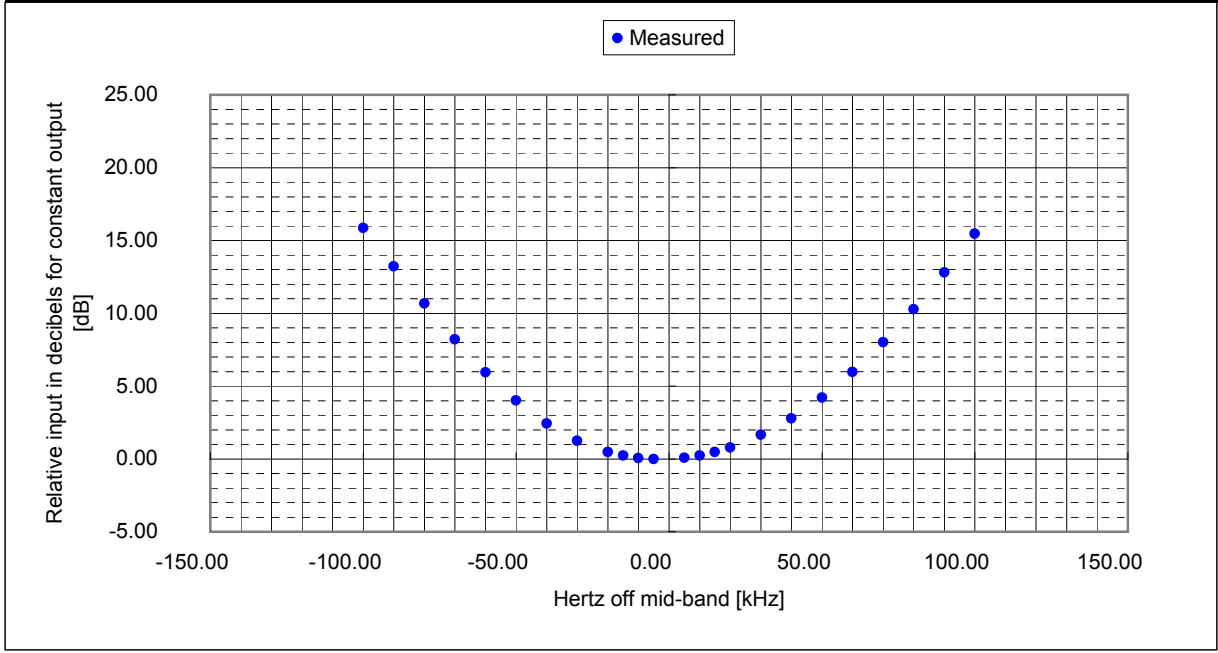
SAMPLE



3.4 500MHz

Hertz off mid-band Δf [kHz]	Measured [dB]
-140.00	25.77
-100.00	15.85
-90.00	13.22
-80.00	10.66
-70.00	8.21
-60.00	5.95
-50.00	4.01
-40.00	2.43
-30.00	1.25
-20.00	0.48
-15.00	0.22
-10.00	0.06
-5.00	-0.02
5.00	0.08
10.00	0.24
15.00	0.48
20.00	0.79
30.00	1.65
40.00	2.79
50.00	4.21
60.00	5.97
70.00	8.01
80.00	10.28
90.00	12.80
100.00	15.47
140.00	26.02

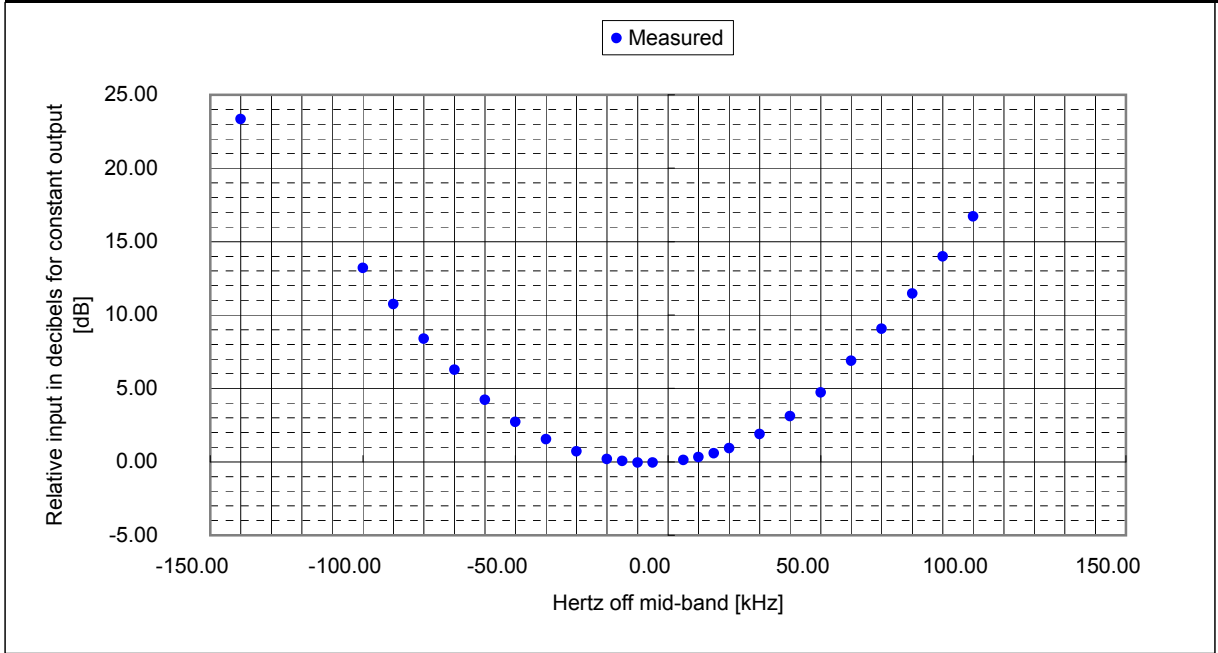
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3.5 1000MHz

Hertz off mid-band Δf [kHz]	Measured [dB]
-140.00	23.34
-100.00	13.20
-90.00	10.75
-80.00	8.39
-70.00	6.27
-60.00	4.23
-50.00	2.72
-40.00	1.55
-30.00	0.72
-20.00	0.19
-15.00	0.05
-10.00	-0.04
-5.00	-0.06
5.00	0.13
10.00	0.31
15.00	0.59
20.00	0.94
30.00	1.88
40.00	3.11
50.00	4.72
60.00	6.88
70.00	9.06
80.00	11.46
90.00	13.99
100.00	16.71
140.00	26.73

SAMPLE



4. 中間周波数除去比

Settings			
RF Input Level:	100 [dB μ V]	Preamp:	Off
RF ATT:	AUTO [dB]	Mode:	-
IF ATT:	AUTO [dB]	Indication:	dB μ V
Meas. Time:	1 [s]	Detector:	Quasi-Peak

Tuned Freq. [MHz]	Measured [dB]	
0.1	114.79	SAMPLE
1.0	103.48	
10.0	102.99	
100.0	88.37	
1000.0	85.14	

5. イメージ周波数除去比

Settings			
RF Input Level:	100 [dBμV]	Preamp:	Off
RF ATT:	AUTO [dB]	Mode:	-
IF ATT:	AUTO [dB]	Indication:	dBμV
Meas. Time:	1 [s]	Detector:	Quasi-Peak

Tuned Freq. [MHz]	Measured [dB]	
0.1	114.71	SAMPLE
1.0	103.40	
10.0	103.27	
100.0	88.51	
1000.0	85.00	

6. スプリアス応答

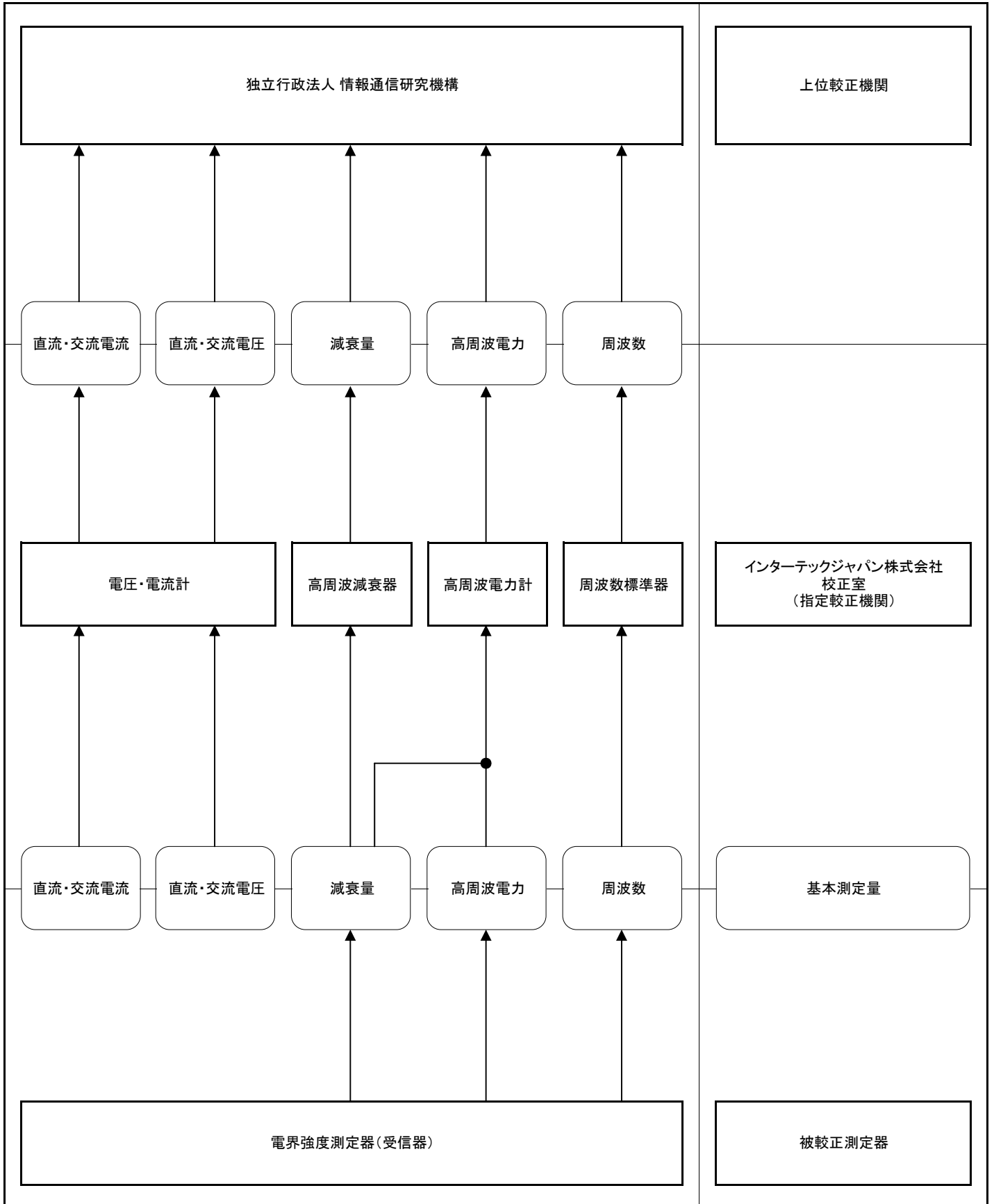
Settings			
RF Input Level:	100 [dB μ V]	Preamp:	Off
RF ATT:	AUTO [dB]	Mode:	-
IF ATT:	AUTO [dB]	Indication:	dB μ V
Meas. Time:	1 [s]	Detector:	Quasi-Peak

Tuned Freq. [MHz]	Measured [dB]	
0.1	58.28	SAMPLE
1.0	64.21	
10.0	57.37	
100.0	60.26	
1000.0	74.00	

7. ランダム雑音

Settings			
RF Input Level:	38 [dB μ V]	Preamp:	Off
RF ATT:	10 and 20 [dB]	Mode:	-
IF ATT:	- [dB]	Indication:	dB μ V
Meas. Time:	1 [s]	Detector:	Quasi-Peak

Tuned Freq. [MHz]	Measured [dB]	
0.1	-0.01	SAMPLE
1.0	0.07	
10.0	0.01	
100.0	0.07	
1000.0	-0.07	



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