

Протокол измерений партии №__ от __

1. Сводная информация о пластине:

Таблица 1: Годные VS бракованные

is_good	a_diff, dB	a_max, dB	aa_min, dB	bw_max, dB	f1, GHz	f2, GHz	f3, GHz
0	4.274	37.429	62.781	86.368	2.468	2.463	2.454
1	3.669	32.304	61.017	100.051	2.459	2.457	2.456

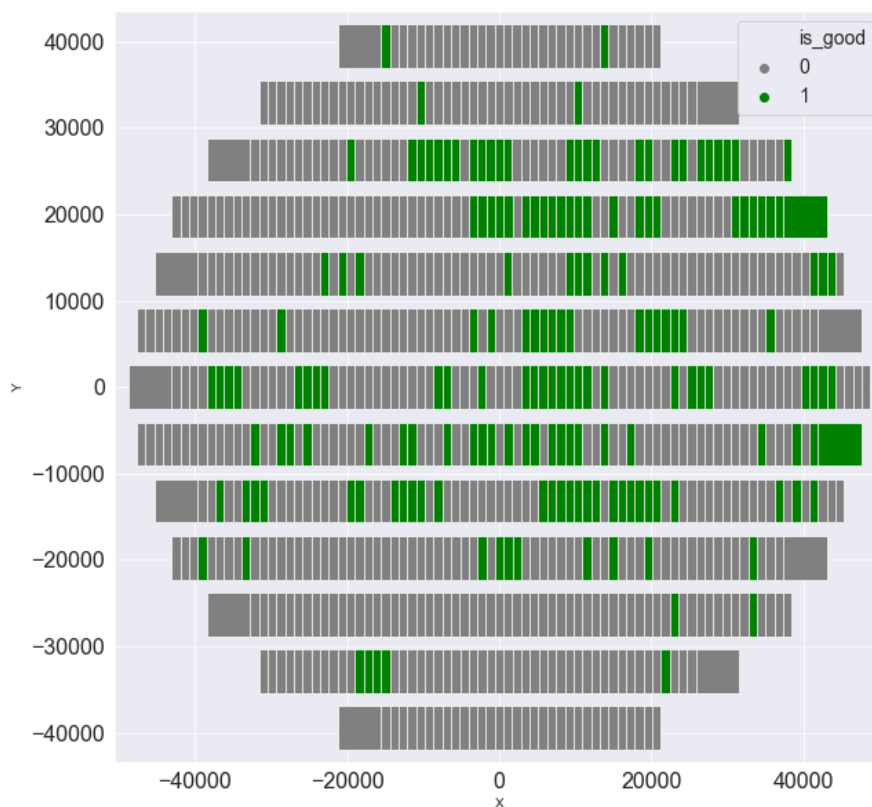


Рис. 1: Карта годных радиометок

2. Разброс характеристик:

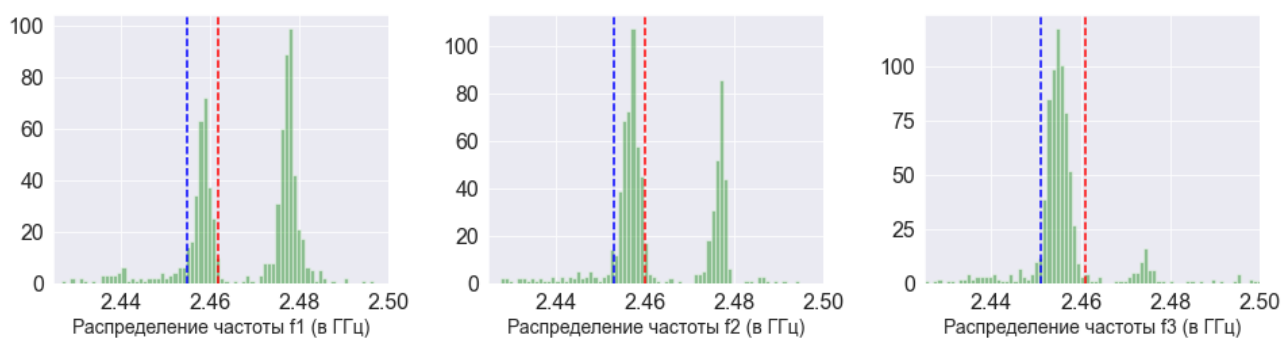


Рис. 2: Распределение рабочих частот

3. Характеристики годных меток для корпусирования:

ID метки	A1, dB	A2, dB	A3, dB	delta_a, dB	f1, GHz	f2, GHz	f3, GHz
7	33.13	31.17	29.48	5.0	2.458155	2.456945	2.455597
32	32.82	31.11	29.80	4.0	2.460570	2.459417	2.458816
52	33.35	31.88	30.35	4.0	2.459732	2.459224	2.458468
70	34.13	32.29	31.18	4.0	2.460942	2.459363	2.458572
85	32.13	30.59	28.78	4.0	2.458208	2.456516	2.455844
91	31.04	29.28	27.46	6.0	2.457908	2.456866	2.455654
92	32.09	30.50	28.78	6.0	2.460250	2.459139	2.457467
93	32.42	30.96	29.05	4.0	2.459710	2.459032	2.457458
94	32.87	30.91	29.38	5.0	2.461170	2.458514	2.457410
95	33.56	31.81	30.39	4.0	2.457949	2.458029	2.456412
97	34.38	32.61	32.21	3.0	2.457868	2.456800	2.456360
98	34.76	33.02	31.88	3.0	2.457166	2.455571	2.455190
101	31.63	30.31	29.32	3.0	2.457934	2.457204	2.456086
102	33.01	31.76	33.51	2.0	2.458230	2.457501	2.456466
107	34.61	33.21	34.60	1.0	2.458216	2.457270	2.453513
108	30.93	29.64	29.11	2.0	2.458967	2.458446	2.458233
109	31.46	30.03	29.97	3.0	2.459670	2.458682	2.457657
110	32.04	30.64	29.86	4.0	2.459046	2.458524	2.457655
117	32.53	31.24	29.58	5.0	2.460515	2.459571	2.458811
118	31.68	30.07	28.37	5.0	2.460550	2.459493	2.458803
119	31.99	30.46	28.81	4.0	2.459047	2.457749	2.457327
120	32.63	31.23	29.62	4.0	2.458539	2.457699	2.457342
121	33.78	32.19	30.48	4.0	2.459044	2.459167	2.458986
123	33.78	31.99	30.47	4.0	2.457912	2.457981	2.456000
124	34.70	33.26	31.53	4.0	2.459888	2.459054	2.457620
125	34.63	32.74	30.91	4.0	2.460574	2.459526	2.457777
126	31.32	29.56	27.61	5.0	2.461081	2.459534	2.458684
127	31.34	29.44	27.48	5.0	2.460389	2.458076	2.456502
128	31.82	30.03	28.23	4.0	2.459592	2.457783	2.456546
135	29.98	27.92	26.08	5.0	2.455213	2.453674	2.452323
182	33.92	32.27	30.42	6.0	2.458107	2.457008	2.456227
183	32.91	31.39	29.52	4.0	2.460328	2.459051	2.458814
184	32.84	31.11	29.49	4.0	2.457907	2.456692	2.455973
185	33.54	31.79	30.37	4.0	2.458878	2.458465	2.457356
186	33.88	32.26	30.78	4.0	2.457672	2.457590	2.456144
188	34.48	32.89	31.46	4.0	2.455832	2.455819	2.454645
189	30.92	29.43	27.81	5.0	2.459921	2.458825	2.457767
190	31.27	29.78	28.38	4.0	2.458789	2.457262	2.456561
191	31.53	30.07	28.66	5.0	2.457543	2.456733	2.455748
192	32.00	30.58	29.14	3.0	2.458666	2.457679	2.458198
193	32.88	31.56	30.79	3.0	2.458541	2.456979	2.457048
194	33.49	32.08	31.13	3.0	2.459138	2.458055	2.457881
195	34.10	32.81	31.86	3.0	2.460080	2.459809	2.458644
198	31.94	30.50	29.14	4.0	2.459025	2.457629	2.456089
201	32.03	31.10	30.37	2.0	2.457572	2.456379	2.457561
202	32.87	31.59	30.65	3.0	2.457687	2.456377	2.456292
203	33.95	32.85	32.15	3.0	2.459970	2.458613	2.458233
212	33.16	31.53	30.29	3.0	2.460389	2.459256	2.458074
213	33.25	31.47	29.69	5.0	2.457097	2.456998	2.455211
214	34.09	32.36	30.47	5.0	2.458578	2.457796	2.455933
215	34.35	32.52	30.51	5.0	2.459399	2.457495	2.456384
216	30.72	29.03	27.23	5.0	2.458380	2.457316	2.456056
217	31.38	29.85	27.75	6.0	2.459096	2.458463	2.456922
218	32.80	31.37	29.21	6.0	2.458833	2.458196	2.455823
220	33.96	32.39	30.50	4.0	2.459290	2.455701	2.455021

продолжение на следующей странице

ID метки	A1, dB	A2, dB	A3, dB	delta_a, dB	f1, GHz	f2, GHz	f3, GHz
221	33.12	31.82	30.16	3.0	2.458439	2.457472	2.456676
222	33.41	31.93	30.45	4.0	2.458983	2.458032	2.456865
244	31.27	29.80	28.43	5.0	2.459285	2.457131	2.456467
246	32.25	30.78	29.35	4.0	2.459838	2.457562	2.457129
248	32.91	31.45	30.08	3.0	2.459514	2.457278	2.456486
249	33.63	32.24	30.90	4.0	2.458439	2.457499	2.456788
250	33.87	32.36	31.10	4.0	2.456191	2.455939	2.454814
257	32.79	31.01	29.47	5.0	2.458551	2.456987	2.455711
274	32.97	30.89	29.31	4.0	2.457336	2.455302	2.453478
276	34.39	32.09	30.33	5.0	2.457649	2.457031	2.454964
278	34.99	32.88	31.19	5.0	2.461376	2.456547	2.456589
301	33.31	31.14	30.37	4.0	2.458224	2.457213	2.457061
310	33.21	31.11	29.19	5.0	2.458608	2.457172	2.457186
332	34.21	32.67	30.54	5.0	2.458060	2.456376	2.455611
334	30.55	28.83	27.14	5.0	2.458975	2.457069	2.455145
338	32.00	30.43	29.09	4.0	2.457458	2.455727	2.454378
339	33.00	31.26	29.84	4.0	2.456407	2.456080	2.455062
340	34.65	32.72	31.08	5.0	2.458383	2.457124	2.456302
341	33.61	31.94	30.39	4.0	2.458850	2.458028	2.456979
342	29.98	28.09	26.60	5.0	2.459265	2.457118	2.455574
343	30.83	29.29	27.72	4.0	2.458192	2.456930	2.455755
351	30.89	29.13	27.20	5.0	2.460367	2.459548	2.458845
352	31.29	29.35	27.33	5.0	2.459945	2.458538	2.457535
353	31.17	29.55	27.55	4.0	2.458663	2.456979	2.456430
354	31.93	30.22	28.53	4.0	2.458775	2.458212	2.456450
355	32.33	30.59	28.85	4.0	2.459715	2.458534	2.459985
356	32.90	31.36	29.67	4.0	2.459539	2.457928	2.457857
366	32.70	30.86	29.34	5.0	2.455379	2.454452	2.453641
377	32.76	30.79	28.93	5.0	2.456574	2.455755	2.455116
378	29.71	27.65	25.72	6.0	2.459121	2.458250	2.457238
379	29.97	27.72	25.64	6.0	2.456929	2.457380	2.455146
380	30.83	28.93	27.24	7.0	2.457349	2.457099	2.454454
391	31.55	29.43	27.74	5.0	2.458638	2.457715	2.457294
392	32.81	30.72	28.67	5.0	2.457897	2.457796	2.456980
393	32.13	30.00	27.89	5.0	2.457032	2.456147	2.455597
395	35.00	33.10	31.08	5.0	2.458839	2.458108	2.457103
403	34.10	31.98	30.24	5.0	2.459792	2.458270	2.457737
405	30.24	28.14	26.06	6.0	2.458358	2.457202	2.456753
406	30.45	28.43	26.32	5.0	2.458909	2.459415	2.457523
407	30.43	28.42	26.30	4.0	2.457940	2.457048	2.455243
408	30.90	28.83	26.70	5.0	2.458856	2.457840	2.456856
409	31.25	29.18	27.17	4.0	2.457925	2.457327	2.456450
410	31.57	29.51	27.64	6.0	2.456857	2.456050	2.454904
411	32.18	29.92	28.17	5.0	2.459489	2.457923	2.456748
412	32.98	31.46	29.74	4.0	2.457433	2.455407	2.454278
417	30.93	29.30	27.52	5.0	2.457089	2.455978	2.455003
421	32.99	31.26	29.49	5.0	2.457920	2.456539	2.455419
422	33.17	31.41	29.88	5.0	2.456944	2.455813	2.455574
435	31.61	29.81	27.83	5.0	2.459354	2.457264	2.456264
436	32.14	30.30	28.39	4.0	2.457869	2.455530	2.454338
437	32.61	30.78	28.91	5.0	2.458499	2.456422	2.455100
438	33.23	31.32	29.36	5.0	2.458175	2.457886	2.456537
445	32.29	30.38	28.74	5.0	2.458620	2.457372	2.456256
446	33.04	31.03	29.27	5.0	2.460281	2.458994	2.457604
447	33.24	31.36	29.76	5.0	2.458341	2.457210	2.456425
448	33.52	31.75	30.05	4.0	2.457544	2.455849	2.454486
467	33.41	31.41	29.35	6.0	2.459128	2.457613	2.455709

продолжение на следующей странице

ID метки	A1, dB	A2, dB	A3, dB	delta_a, dB	f1, GHz	f2, GHz	f3, GHz
470	30.99	29.03	26.73	5.0	2.461353	2.459095	2.457827
471	31.26	29.28	27.21	5.0	2.458535	2.457445	2.455971
473	32.16	30.08	28.02	6.0	2.459827	2.459756	2.457258
480	30.92	28.94	26.78	5.0	2.458935	2.457973	2.456594
484	32.35	30.29	28.23	6.0	2.457101	2.454881	2.453900
485	33.02	31.01	28.83	6.0	2.456868	2.455829	2.455192
489	30.98	29.01	26.73	5.0	2.457607	2.456562	2.455645
492	32.11	29.93	27.71	6.0	2.456318	2.455336	2.453855
493	32.63	30.54	28.18	6.0	2.458120	2.456551	2.455685
494	32.79	30.64	28.34	6.0	2.457961	2.456878	2.456011
496	30.01	27.98	25.69	6.0	2.457739	2.457134	2.455889
498	30.79	28.83	26.55	6.0	2.458783	2.457079	2.456230
499	31.12	29.13	26.94	5.0	2.457214	2.456353	2.455197
501	31.99	29.92	28.06	5.0	2.458727	2.457411	2.455762
502	32.87	31.00	28.93	5.0	2.458307	2.456710	2.455953
503	32.76	30.71	28.82	5.0	2.457103	2.456896	2.455553
504	30.10	28.23	28.87	3.0	2.458952	2.457848	2.451104
507	32.02	30.83	30.05	3.0	2.459371	2.458568	2.457577
510	33.07	30.92	32.79	2.0	2.458595	2.456829	2.452711
525	30.74	28.90	26.75	5.0	2.455729	2.454027	2.454414
529	32.32	30.37	28.25	5.0	2.457889	2.457413	2.455921
531	31.20	29.34	29.90	3.0	2.458948	2.457820	2.453315
532	29.98	28.15	26.14	5.0	2.458558	2.458013	2.457202
536	32.34	30.10	28.05	6.0	2.457707	2.456881	2.455299
538	32.00	29.77	27.67	6.0	2.456354	2.455368	2.454021
540	29.74	27.75	25.45	7.0	2.457884	2.457125	2.456067
552	32.50	30.23	27.62	6.0	2.460908	2.459772	2.457946
554	32.18	29.80	27.45	6.0	2.459651	2.458939	2.457803
555	32.56	30.24	27.97	6.0	2.460636	2.458888	2.457995
556	32.65	30.40	28.02	6.0	2.459545	2.457764	2.456749
557	32.67	30.62	28.29	6.0	2.457094	2.456243	2.454652
558	30.37	28.03	25.71	7.0	2.459242	2.458482	2.458157
559	30.77	28.74	26.38	6.0	2.459500	2.458598	2.457406
561	30.93	28.80	26.60	5.0	2.458831	2.457585	2.455813
562	31.20	28.95	26.71	6.0	2.457406	2.455878	2.455495
563	31.67	29.36	27.26	6.0	2.458854	2.458371	2.456073
564	31.91	29.70	27.50	6.0	2.458713	2.456967	2.456370
565	32.26	30.13	27.87	6.0	2.457176	2.455482	2.454827
566	32.50	30.42	28.09	6.0	2.457202	2.455702	2.454141
567	29.60	27.36	25.14	7.0	2.457577	2.456068	2.454936
579	31.28	29.01	26.57	6.0	2.459106	2.456366	2.455018
581	31.89	29.61	27.35	6.0	2.459335	2.457601	2.455977
582	32.19	29.96	27.78	6.0	2.458666	2.456279	2.455109
583	32.41	30.27	28.10	6.0	2.457580	2.455372	2.454477
584	32.78	30.67	28.54	6.0	2.457645	2.456736	2.455452
588	31.43	29.33	26.87	6.0	2.459055	2.457344	2.456460
589	31.32	29.19	26.97	6.0	2.457114	2.455625	2.455172
599	31.77	29.48	27.47	6.0	2.457772	2.456963	2.455482
600	32.49	30.30	28.19	5.0	2.461538	2.459972	2.458143
601	32.85	30.68	28.54	6.0	2.458803	2.456631	2.455415
604	30.55	28.40	26.13	7.0	2.459196	2.458331	2.456597
611	33.20	31.06	28.76	6.0	2.456625	2.455799	2.454286
616	31.49	29.26	27.05	6.0	2.457724	2.456661	2.455408
643	31.43	29.20	26.72	6.0	2.457884	2.456870	2.455676
645	32.09	29.66	27.20	7.0	2.458582	2.456825	2.455691
646	33.28	30.94	28.46	6.0	2.458086	2.458742	2.455977
647	32.81	30.39	27.99	6.0	2.457756	2.457187	2.455984

продолжение на следующей странице

ID метки	A1, dB	A2, dB	A3, dB	delta_a, dB	f1, GHz	f2, GHz	f3, GHz
655	32.65	30.29	27.68	7.0	2.458003	2.458702	2.455270
658	30.83	28.70	26.00	7.0	2.461736	2.459437	2.457766
662	33.49	31.58	29.19	5.0	2.459788	2.458344	2.457176
674	32.59	30.21	27.95	6.0	2.457291	2.456268	2.454938
683	32.85	30.40	27.94	6.0	2.457238	2.456033	2.454384
692	33.85	31.35	29.00	6.0	2.458744	2.457614	2.455981
753	31.77	29.58	27.12	6.0	2.458326	2.457182	2.456680
754	32.12	29.91	27.38	6.0	2.458183	2.457356	2.455429
755	33.07	30.58	28.23	6.0	2.457876	2.456705	2.455382
756	29.66	27.30	24.86	7.0	2.460698	2.459621	2.458054
788	31.96	29.46	27.08	7.0	2.460609	2.459093	2.457497