

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030620\
 Data File : VL034839.D
 Acq On : 7 Mar 2020 10:24
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:21:51 AM

Quant Time: Mar 07 14:05:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	848589	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	1975365	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	2089189m	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1571674	9.02	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1339545	9.673	ppbv 98
3) Chlorodifluoromethane	2.95	51	868511	8.983	ppbv 98
4) Chloromethane	3.10	50	509840	9.791	ppbv 100
5) Vinyl Chloride	3.22	62	493430	8.970	ppbv 98
6) Bromomethane	3.44	94	290210	9.666	ppbv 99
7) Chloroethane	3.52	64	178671	9.393	ppbv 98
8) Dichlorotetrafluoroethane	3.15	85	1093559	9.090	ppbv 91
9) Propene	2.97	41	416700	10.950	ppbv 97
10) Heptane	8.13	43	1063198	10.994	ppbv 99
11) Trichlorofluoromethane	3.92	101	1114742	8.996	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	796587	9.317	ppbv 91
13) Ethanol	3.57	45	95734	7.342	ppbv 98
14) Bromoethene	3.71	108	358492	10.218	ppbv 98
15) Acetone	3.82	43	997970	9.821	ppbv 100
16) 1,3-Butadiene	3.29	39	464869	10.111	ppbv 100
17) tert-Butyl alcohol	4.27	59	822492	10.265	ppbv 99
18) 1,1-Dichloroethene	4.26	96	369675	9.804	ppbv 97
19) Isopropyl Alcohol	3.94	45	535393	8.793	ppbv # 1
20) Methylene Chloride	4.32	84	313771	8.652	ppbv 94
21) Allyl Chloride	4.39	41	683635	10.623	ppbv 97
22) trans-1,2-Dichloroethene	4.87	96	374201	10.166	ppbv 98
23) Vinyl Acetate	5.06	43	1577159	11.574	ppbv 98
24) 1,1-Dichloroethane	5.00	63	997091	9.428	ppbv 99
25) Ethyl Acetate	5.66	43	1786828	10.175	ppbv 99
26) Hexane	5.67	57	792228	10.327	ppbv 98
27) Carbon Disulfide	4.53	76	977204	10.904	ppbv 99
28) Methyl tert-Butyl Ether	5.02	73	1347606	11.802	ppbv 100
29) Chloroform	5.74	83	1157315	8.962	ppbv 100
30) Cyclohexane	7.13	84	674111	11.486	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	817240	10.386	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	1195289	9.367	ppbv 97
34) 2-Butanone	5.23	43	1202973	9.361	ppbv 100
35) Carbon Tetrachloride	7.02	117	1218165	8.173	ppbv 97
36) Benzene	6.89	78	1621398	9.606	ppbv 99
37) 1,2-Dichloroethane	6.30	62	908071	7.876	ppbv 98
38) Trichloroethene	7.84	130	622655	9.465	ppbv 92
39) 1,2-Dichloropropane	7.62	63	635740	9.333	ppbv 97
40) 1,4-Dioxane	7.84	88	201279	8.543	ppbv # 94
41) Tetrahydrofuran	6.04	42	682355	10.406	ppbv 97
42) Bromodichloromethane	7.80	83	1274946	8.740	ppbv 100
43) Methyl Methacrylate	8.02	69	715880	10.008	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	2724810	9.237	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	896540	11.939	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1026027	11.190	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	651675	9.061	ppbv	98
48) Dibromochloromethane	10.32	129	1117749	9.939	ppbv	99
49) Bromoform	13.07	173	989090m	10.079	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	1754516	9.528	ppbv	99
51) 2-Hexanone	10.15	43	1438177	9.956	ppbv #	99
52) Tetrachloroethene	11.25	164	593480	9.517	ppbv	97
53) Toluene	9.82	91	1887525	10.566	ppbv	100
54) 1,2-Dibromoethane	10.63	107	987522	9.286	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	829798	8.964	ppbv #	61
57) Chlorobenzene	12.17	112	1378101	8.635	ppbv	99
58) Ethyl Benzene	12.73	91	2466092	9.578	ppbv	98
59) m/p-Xylene	13.02	91	3956103m	17.751	ppbv	
60) o-Xylene	13.72	91	1945877	8.629	ppbv	98
61) Styrene	13.55	104	1488193	10.639	ppbv	96
62) Isopropylbenzene	14.70	105	2958786	8.915	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1304053	7.336	ppbv	99
64) n-propylbenzene	15.60	120	774480	9.307	ppbv	92
65) tert-Butylbenzene	16.78	119	2558028	9.121	ppbv	95
66) Benzyl Chloride	17.02	91	1356140	14.956	ppbv	95
67) sec-Butylbenzene	17.33	105	3607438	8.827	ppbv	100
69) p-Isopropyltoluene	17.69	119	3068342	9.277	ppbv	97
70) n-Butylbenzene	18.59	91	3123346	8.636	ppbv	99
71) 2-Chlorotoluene	15.49	91	2222909	8.868	ppbv	97
72) 4-Ethyltoluene	15.87	105	2363988	9.416	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	2210864	9.180	ppbv	94
74) 1,2,4-Trimethylbenzene	16.80	105	2270990	8.675	ppbv #	91
75) 1,3-Dichlorobenzene	17.04	146	1335639	8.618	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	1354350	9.133	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1330071	8.971	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1211041	9.788	ppbv	99
79) Naphthalene	22.26	128	2376712	12.080	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	844086	17.963	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	1371449m	11.027	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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