

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034776.D
 Acq On : 4 Mar 2020 1:23
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:44:52 PM

Quant Time: Mar 04 06:05:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1135004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2383831	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2548684m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	2020954	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1379374	7.706	ppbv 100
3) Chlorodifluoromethane	2.96	51	1154287	9.390	ppbv 100
4) Chloromethane	3.11	50	635537	9.320	ppbv 100
5) Vinyl Chloride	3.23	62	620908	9.261	ppbv 100
6) Bromomethane	3.46	94	366275	9.340	ppbv 100
7) Chloroethane	3.54	64	231691	9.345	ppbv 100
8) Dichlorotetrafluoroethane	3.17	85	1411188	8.925	ppbv 100
9) Propene	2.98	41	490245	9.595	ppbv 100
10) Heptane	8.16	43	1323612	10.047	ppbv 100
11) Trichlorofluoromethane	3.94	101	1436790	9.159	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	982399	8.917	ppbv 100
13) Ethanol	3.59	45	143792	8.932	ppbv 100
14) Bromoethene	3.73	108	445905	9.650	ppbv 100
15) Acetone	3.84	43	1128181	8.711	ppbv 100
16) 1,3-Butadiene	3.31	39	592686	9.861	ppbv 100
17) tert-Butyl alcohol	4.29	59	1118179	11.261	ppbv 100
18) 1,1-Dichloroethene	4.29	96	455332	9.203	ppbv 100
19) Isopropyl Alcohol	3.96	45	862800	11.168	ppbv 99
20) Methylene Chloride	4.34	84	400058	8.339	ppbv 100
21) Allyl Chloride	4.41	41	800476	9.436	ppbv 100
22) trans-1,2-Dichloroethene	4.89	96	438238	9.169	ppbv 100
23) Vinyl Acetate	5.08	43	1836752	10.433	ppbv 100
24) 1,1-Dichloroethane	5.02	63	1292563	9.225	ppbv 100
25) Ethyl Acetate	5.69	43	2222607	9.691	ppbv 100
26) Hexane	5.70	57	998749	9.475	ppbv 100
27) Carbon Disulfide	4.55	76	1159848	9.797	ppbv 100
28) Methyl tert-Butyl Ether	5.04	73	1485671	9.882	ppbv 100
29) Chloroform	5.77	83	1556507	9.261	ppbv 100
30) Cyclohexane	7.16	84	822959	10.063	ppbv 100
31) cis-1,2-Dichloroethene	5.56	61	1049884	10.114	ppbv 100
32) 1,1,1-Trichloroethane	6.54	97	1521172	9.653	ppbv 100
34) 2-Butanone	5.25	43	1485934	9.868	ppbv 100
35) Carbon Tetrachloride	7.05	117	1550802	9.705	ppbv 100
36) Benzene	6.92	78	1965995	9.571	ppbv 100
37) 1,2-Dichloroethane	6.33	62	1279365	9.788	ppbv 100
38) Trichloroethene	7.87	130	738833	9.315	ppbv 100
39) 1,2-Dichloropropane	7.65	63	784040	9.617	ppbv 100
40) 1,4-Dioxane	7.87	88	290797	10.487	ppbv # 99
41) Tetrahydrofuran	6.07	42	809501	10.260	ppbv 100
42) Bromodichloromethane	7.83	83	1724314	10.085	ppbv 100
43) Methyl Methacrylate	8.05	69	906988	10.502	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3433486	9.559	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1055917	11.264	ppbv	100
46) cis-1,3-Dichloropropene	8.75	75	1227357	10.891	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	817621	9.721	ppbv	100
48) Dibromochloromethane	10.36	129	1385620	10.549	ppbv	100
49) Bromoform	13.10	173	1234869	10.799	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	2220759	10.398	ppbv	100
51) 2-Hexanone	10.18	43	1842584	10.952	ppbv	100
52) Tetrachloroethene	11.28	164	694147	9.172	ppbv	100
53) Toluene	9.85	91	2259807	10.330	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1255632	9.995	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.18	131	1032096	9.416	ppbv	100
57) Chlorobenzene	12.21	112	1701841	9.022	ppbv	100
58) Ethyl Benzene	12.77	91	3102641	10.012	ppbv	100
59) m/p-Xylene	13.05	91	5066637m	18.838	ppbv	
60) o-Xylene	13.76	91	2530647	9.441	ppbv	100
61) Styrene	13.59	104	1812232	10.561	ppbv	100
62) Isopropylbenzene	14.73	105	3687905	9.430	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1822699	8.727	ppbv	100
64) n-propylbenzene	15.63	120	974289	9.672	ppbv	100
65) tert-Butylbenzene	16.82	119	3224836	9.529	ppbv	100
66) Benzyl Chloride	17.06	91	1297856	10.576	ppbv	100
67) sec-Butylbenzene	17.36	105	4637776	9.506	ppbv	100
69) p-Isopropyltoluene	17.72	119	3847263	9.578	ppbv	100
70) n-Butylbenzene	18.62	91	4190053	9.568	ppbv	100
71) 2-Chlorotoluene	15.52	91	2953433	9.726	ppbv	100
72) 4-Ethyltoluene	15.91	105	2987363	9.991	ppbv	100
73) 1,3,5-Trimethylbenzene	16.07	105	2843906	9.871	ppbv	100
74) 1,2,4-Trimethylbenzene	16.83	105	2936150	9.219	ppbv	100
75) 1,3-Dichlorobenzene	17.07	146	1685971	9.174	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1695548	9.244	ppbv	100
77) 1,2-Dichlorobenzene	17.89	146	1640347	9.239	ppbv	100
78) Hexachloro-1,3-Butadiene	23.45	225	1268903	8.296	ppbv	100
79) Naphthalene	22.30	128	2839387	10.116	ppbv	100
80) Naphthalene, 2-methyl-	25.04	142	776591	8.970	ppbv	100
81) 1,2,4-Trichlorobenzene	22.02	180	1631371	9.715	ppbv	100

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

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