

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036641.D
 Acq On : 2 Apr 2021 11:27
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 4/5/2021 1:13:49 PM

Quant Time: Apr 03 03:45:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1403044	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3745915	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3477167m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2768823	9.99	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1814632	7.930	ppbv	96
3) Chlorodifluoromethane	2.98	51	2274393	8.676	ppbv	100
4) Chloromethane	3.13	50	794620	8.582	ppbv	97
5) Vinyl Chloride	3.25	62	804433	8.449	ppbv	98
6) Bromomethane	3.46	94	453845	8.658	ppbv	97
7) Chloroethane	3.55	64	283934	8.679	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	1890344	8.655	ppbv	96
9) Propene	3.00	41	798647	9.557	ppbv	94
10) Heptane	8.11	43	2002916	9.408	ppbv	99
11) Trichlorofluoromethane	3.94	101	1952761	8.373	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1344838	9.019	ppbv	100
13) Ethanol	3.60	45	94615	9.507	ppbv	96
14) Bromoethene	3.73	108	572776	9.240	ppbv	99
15) Acetone	3.84	43	1115188	8.076	ppbv	98
16) 1,3-Butadiene	3.32	39	820599	8.535	ppbv	97
17) tert-Butyl alcohol	4.29	59	1310794	10.904	ppbv	99
18) 1,1-Dichloroethene	4.28	96	597225	9.005	ppbv	97
19) Isopropyl Alcohol	3.96	45	754439	9.932	ppbv #	95
20) Methylene Chloride	4.33	84	512265	7.923	ppbv	91
21) Allyl Chloride	4.40	41	1035920	9.410	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	598642	9.736	ppbv	95
23) Vinyl Acetate	5.06	43	2253384	9.540	ppbv	98
24) 1,1-Dichloroethane	5.00	63	1500582	8.715	ppbv	98
25) Ethyl Acetate	5.66	43	3035488	9.246	ppbv	100
26) Hexane	5.68	57	1422197	9.335	ppbv	99
27) Carbon Disulfide	4.54	76	1534740	10.226	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1819110	10.125	ppbv	99
29) Chloroform	5.74	83	2139909	8.783	ppbv	99
30) Cyclohexane	7.12	84	1174277	9.504	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1411474	9.578	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	2211005	9.004	ppbv	100
34) 2-Butanone	5.23	43	1516254	8.292	ppbv	100
35) Carbon Tetrachloride	7.01	117	2293541	7.972	ppbv	99
36) Benzene	6.88	78	2862176	8.285	ppbv	100
37) 1,2-Dichloroethane	6.30	62	1670627	8.216	ppbv	99
38) Trichloroethene	7.82	130	1088137	8.093	ppbv	94
39) 1,2-Dichloropropane	7.60	63	1144995	8.170	ppbv	98
40) 1,4-Dioxane	7.82	88	277486m	8.508	ppbv	
41) Tetrahydrofuran	6.04	42	724641	8.595	ppbv	95
42) Bromodichloromethane	7.78	83	2343274	8.472	ppbv	98
43) Methyl Methacrylate	8.00	69	1072479	9.245	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4891789	8.045	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1388859	10.485	ppbv	100
46) cis-1,3-Dichloropropene	8.69	75	1650452	9.747	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	1149111	8.095	ppbv	98
48) Dibromochloromethane	10.29	129	2053005	9.488	ppbv	99
49) Bromoform	13.03	173	1746026	10.015	ppbv	97
50) 4-Methyl-2-Pentanone	8.73	43	2336245	8.830	ppbv	99
51) 2-Hexanone	10.13	43	1275010	9.549	ppbv	97
52) Tetrachloroethene	11.21	164	1123391	8.831	ppbv	95
53) Toluene	9.80	91	3321427	9.028	ppbv	99
54) 1,2-Dibromoethane	10.60	107	1705992	8.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	1364783	8.678	ppbv #	55
57) Chlorobenzene	12.13	112	2443076	8.258	ppbv	99
58) Ethyl Benzene	12.70	91	4404593	8.707	ppbv	99
59) m/p-Xylene	12.98	91	7396568m	16.763	ppbv	
60) o-Xylene	13.68	91	3461067	8.113	ppbv	99
61) Styrene	13.52	104	2111086	9.836	ppbv	99
62) Isopropylbenzene	14.66	105	4787842	8.333	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2354083	7.233	ppbv	100
64) n-propylbenzene	15.55	120	1263321	8.994	ppbv	93
65) tert-Butylbenzene	16.73	119	4265816	8.563	ppbv	97
66) Benzyl Chloride	16.98	91	709610	12.886	ppbv	95
67) sec-Butylbenzene	17.28	105	5743373	8.167	ppbv	99
69) p-Isopropyltoluene	17.64	119	4957340	9.027	ppbv	98
70) n-Butylbenzene	18.55	91	4762355	8.364	ppbv	99
71) 2-Chlorotoluene	15.44	91	3600994	8.364	ppbv	96
72) 4-Ethyltoluene	15.83	105	4138343	8.852	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3756600	8.610	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	3860975	8.269	ppbv	99
75) 1,3-Dichlorobenzene	16.98	146	2299012	8.747	ppbv	98
76) 1,4-Dichlorobenzene	17.13	146	2249196	8.619	ppbv	98
77) 1,2-Dichlorobenzene	17.81	146	2183327	8.838	ppbv	97
78) Hexachloro-1,3-Butadiene	23.37	225	1777529	8.034	ppbv	99
79) Naphthalene	22.19	128	2837699	10.415	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	501082	9.326	ppbv	89
81) 1,2,4-Trichlorobenzene	21.92	180	1685976	10.022	ppbv	99

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

