

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038229.D
 Acq On : 22 Dec 2021 9:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/23/2021
 Supervised By :Mahesh Dadoda 12/29/2021

Quant Time: Dec 22 10:23:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	730778	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	2038623	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	1935826m	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1452681	9.74	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1125427	8.173 ppbv	98
3) Chlorodifluoromethane	3.02	51	1362188	8.871 ppbv	97
4) Chloromethane	3.17	50	454892	8.543 ppbv	98
5) Vinyl Chloride	3.29	62	467138	8.729 ppbv	99
6) Bromomethane	3.50	94	273574	10.032 ppbv	99
7) Chloroethane	3.58	64	171817	9.534 ppbv	99
8) Dichlorotetrafluoroethane	3.21	85	1160680	8.882 ppbv	95
9) Propene	3.04	41	449459	8.430 ppbv	99
10) Heptane	8.15	43	1135250	8.393 ppbv	99
11) Trichlorofluoromethane	3.98	101	1171553	9.264 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.51	101	864680	9.052 ppbv	97
13) Ethanol	3.63	45	62611m	6.926 ppbv	
14) Bromoethene	3.77	108	351019	9.224 ppbv	99
15) Acetone	3.88	43	604808	8.246 ppbv	95
16) 1,3-Butadiene	3.35	39	451984	9.046 ppbv	100
17) tert-Butyl alcohol	4.32	59	700623	8.698 ppbv	100
18) 1,1-Dichloroethene	4.32	96	366710	8.766 ppbv	98
19) Isopropyl Alcohol	3.99	45	401513	8.777 ppbv #	39
20) Methylene Chloride	4.37	84	332786	8.037 ppbv	96
21) Allyl Chloride	4.44	41	569397	9.178 ppbv	96
22) trans-1,2-Dichloroethene	4.91	96	401095	9.398 ppbv	95
23) Vinyl Acetate	5.10	43	926881	9.334 ppbv	99
24) 1,1-Dichloroethane	5.04	63	785111	8.841 ppbv	100
25) Ethyl Acetate	5.70	43	1794412	9.031 ppbv	99
26) Hexane	5.72	57	845700	8.483 ppbv	99
27) Carbon Disulfide	4.58	76	894599	10.194 ppbv	99
28) Methyl tert-Butyl Ether	5.06	73	842382	8.408 ppbv	99
29) Chloroform	5.78	83	1360528	9.196 ppbv	99
30) Cyclohexane	7.16	84	717035	8.121 ppbv	93
31) cis-1,2-Dichloroethene	5.58	61	817206	10.452 ppbv	94
32) 1,1,1-Trichloroethane	6.54	97	1348750	9.189 ppbv	97
34) 2-Butanone	5.27	43	625918	10.215 ppbv	100
35) Carbon Tetrachloride	7.05	117	1374006	10.919 ppbv	100
36) Benzene	6.92	78	1762133	9.267 ppbv	99
37) 1,2-Dichloroethane	6.33	62	1031022	10.806 ppbv	97
38) Trichloroethene	7.86	130	647767	8.951 ppbv	94
39) 1,2-Dichloropropane	7.64	63	683461	9.339 ppbv	95
40) 1,4-Dioxane	7.86	88	168270	7.904 ppbv	98
41) Tetrahydrofuran	6.08	42	439421	9.791 ppbv	98
42) Bromodichloromethane	7.82	83	1452549	10.699 ppbv	99
43) Methyl Methacrylate	8.04	69	651993	9.963 ppbv	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038229.D
 Acq On : 22 Dec 2021 9:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/23/2021
 Supervised By :Mahesh Dadoda 12/29/2021

Quant Time: Dec 22 10:23:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	2931347	9.075	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	567912	11.726	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	723420	10.791	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	682735	8.988	ppbv	98
48) Dibromochloromethane	10.33	129	1102028	10.317	ppbv	100
49) Bromoform	13.07	173	733287	9.662	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	1195318	10.729	ppbv	99
51) 2-Hexanone	10.17	43	569997	10.690	ppbv #	97
52) Tetrachloroethene	11.25	164	571558	8.143	ppbv	96
53) Toluene	9.83	91	1965283	8.957	ppbv	99
54) 1,2-Dibromoethane	10.64	107	985924	9.150	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	697772	8.666	ppbv	98
57) Chlorobenzene	12.18	112	1331137	7.929	ppbv	95
58) Ethyl Benzene	12.74	91	2487262	8.280	ppbv	98
59) m/p-Xylene	13.02	91	4162452m	16.208	ppbv	
60) o-Xylene	13.72	91	1876718	7.882	ppbv	99
61) Styrene	13.55	104	987844	8.191	ppbv	95
62) Isopropylbenzene	14.69	105	2557057	7.649	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	1322206	7.221	ppbv	99
64) n-propylbenzene	15.59	120	644010	7.749	ppbv	87
65) tert-Butylbenzene	16.77	119	2250665	7.649	ppbv	96
66) Benzyl Chloride	17.01	91	104472	9.526	ppbv	94
67) sec-Butylbenzene	17.32	105	3194877	7.902	ppbv	99
69) p-Isopropyltoluene	17.68	119	2650866	8.152	ppbv	98
70) n-Butylbenzene	18.58	91	2800620	9.058	ppbv	98
71) 2-Chlorotoluene	15.48	91	1933695	7.771	ppbv	98
72) 4-Ethyltoluene	15.87	105	2143559	7.817	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	2021179	8.237	ppbv	97
74) 1,2,4-Trimethylbenzene	16.79	105	2095756	8.132	ppbv	95
75) 1,3-Dichlorobenzene	17.02	146	1208283	8.679	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	1155639	8.367	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	1191408	8.938	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	919865	11.184	ppbv	100
79) Naphthalene	22.23	128	1853042	13.918	ppbv	98
80) Naphthalene,2-methyl-	24.99	142	263670	9.982	ppbv	93
81) 1,2,4-Trichlorobenzene	21.96	180	963266	12.652	ppbv	99

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

