

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038747.D
 Acq On : 24 Mar 2022 12:05
 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 : Semsettin Yesilyurt 03/27/2022
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 26 11:00:40 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	871871	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2473915	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.09	117	2257083m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1672993	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	1144920	9.77	ppbv	98
3) Chlorodifluoromethane	3.00	51	917774	9.97	ppbv	99
4) Chloromethane	3.15	50	474904	9.39	ppbv	99
5) Vinyl Chloride	3.27	62	476211	9.27	ppbv	96
6) Bromomethane	3.48	94	268176	9.79	ppbv	98
7) Chloroethane	3.56	64	162744	9.57	ppbv	100
8) Dichlorotetrafluoroethane	3.20	85	1106916	9.46	ppbv	93
9) Propene	3.02	41	436466	9.82	ppbv	99
10) Heptane	8.12	43	1060494	9.98	ppbv	99
11) Trichlorofluoromethane	3.96	101	996524	9.63	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	779682	9.79	ppbv	96
13) Ethanol	3.62	45	24661m	5.03	ppbv	
14) Bromoethene	3.74	108	358296	10.12	ppbv	98
15) Acetone	3.85	43	693161	9.21	ppbv	97
16) 1,3-Butadiene	3.34	39	417622	9.78	ppbv	99
17) tert-Butyl alcohol	4.29	59	772887	11.76	ppbv	100
18) 1,1-Dichloroethene	4.29	96	349356	9.77	ppbv	97
19) Isopropyl Alcohol	3.97	45	397755	9.54	ppbv #	1
20) Methylene Chloride	4.35	84	290664	9.17	ppbv	99
21) Allyl Chloride	4.42	41	556702	10.28	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	392659	10.58	ppbv	98
23) Vinyl Acetate	5.08	43	548204	7.53	ppbv	98
24) 1,1-Dichloroethane	5.02	63	700099	9.76	ppbv	99
25) Ethyl Acetate	5.68	43	2053298	10.84	ppbv	99
26) Hexane	5.69	57	826963	9.75	ppbv	91
27) Carbon Disulfide	4.56	76	915973	11.01	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	697829	11.05	ppbv	100
29) Chloroform	5.76	83	1303331	9.60	ppbv	98
30) Cyclohexane	7.13	84	729080	9.89	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	811560	10.18	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1306411	9.97	ppbv	98
34) 2-Butanone	5.25	43	823346	8.41	ppbv	98
35) Carbon Tetrachloride	7.02	117	1366705	9.52	ppbv	98
36) Benzene	6.89	78	1793856	9.40	ppbv	99
37) 1,2-Dichloroethane	6.31	62	904829	9.32	ppbv	99
38) Trichloroethene	7.83	130	737080	9.22	ppbv	98
39) 1,2-Dichloropropane	7.62	63	676272	9.06	ppbv	96
40) 1,4-Dioxane	7.83	88	241868	9.33	ppbv	98
41) Tetrahydrofuran	6.05	42	701207	9.62	ppbv	99
42) Bromodichloromethane	7.79	83	1399646	9.61	ppbv	100
43) Methyl Methacrylate	8.01	69	766302	10.81	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	2865366	8.94	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	838929	11.64	ppbv	100
46) cis-1,3-Dichloropropene	8.71	75	1026297	10.53	ppbv	97
47) 1,1,2-Trichloroethane	9.48	97	736365	9.24	ppbv	99
48) Dibromochloromethane	10.30	129	1273993	10.21	ppbv	100
49) Bromoform	13.04	173	1067067	10.49	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	1724401	9.47	ppbv	99
51) 2-Hexanone	10.13	43	1342138	10.26	ppbv	99
52) Tetrachloroethene	11.22	164	679478	9.72	ppbv	98
53) Toluene	9.81	91	2040269	9.94	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1090867	10.03	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	920852	9.84	ppbv	98
57) Chlorobenzene	12.15	112	1495694	9.19	ppbv	97
58) Ethyl Benzene	12.71	91	2660732	10.08	ppbv	99
59) m/p-Xylene	13.00	91	4396665m	19.05	ppbv	
60) o-Xylene	13.69	91	2084587	9.51	ppbv	99
61) Styrene	13.53	104	1310197	11.02	ppbv	99
62) Isopropylbenzene	14.67	105	3281365	9.96	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	1447494	8.53	ppbv	99
64) n-propylbenzene	15.56	120	892957	10.33	ppbv	97
65) tert-Butylbenzene	16.74	119	2882966	9.74	ppbv	99
66) Benzyl Chloride	16.99	91	656978	11.72	ppbv	100
67) sec-Butylbenzene	17.29	105	4125502	9.74	ppbv	99
69) p-Isopropyltoluene	17.65	119	3440249	9.96	ppbv	100
70) n-Butylbenzene	18.55	91	3460334	9.71	ppbv	100
71) 2-Chlorotoluene	15.45	91	2446848	10.01	ppbv	99
72) 4-Ethyltoluene	15.84	105	2603231	10.06	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	2246194	9.53	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	2363404	9.20	ppbv	98
75) 1,3-Dichlorobenzene	17.00	146	1509404	9.23	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	1473123	9.06	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	1462473	9.03	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	1104837	7.38	ppbv	99
79) Naphthalene	22.19	128	2008656	10.24	ppbv	99
80) Naphthalene,2-methyl-	24.97	142	540884	10.28	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	1146559	8.54	ppbv	99

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

