

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
 Data File : VL038809.D
 Acq On : 31 Mar 2022 9:44
 Operator : SY/AP
 Sample : VL0330ABS02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VL0330ABS02

Manual Integrations
 APPROVED

Quant Time: Apr 01 05:17:45 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

Reviewed By : Semsettin Yesilyurt 04/02/2022
 Supervised By : Mahesh Dadoda 04/04/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	791456	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	2260865	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	2106507m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1520866	9.42	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	922112	8.667	ppbv 100
3) Chlorodifluoromethane	3.00	51	877230	10.495	ppbv 100
4) Chloromethane	3.15	50	475831	10.368	ppbv 95
5) Vinyl Chloride	3.27	62	472341	10.129	ppbv 97
6) Bromomethane	3.49	94	268085	10.784	ppbv 99
7) Chloroethane	3.57	64	164833	10.677	ppbv 99
8) Dichlorotetrafluoroethane	3.20	85	1091519	10.275	ppbv 93
9) Propene	3.02	41	421077	10.434	ppbv 100
10) Heptane	8.14	43	1109040	11.496	ppbv 100
11) Trichlorofluoromethane	3.96	101	1009691	10.752	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	811026	11.220	ppbv 97
13) Ethanol	3.62	45	38013m	8.539	ppbv
14) Bromoethene	3.75	108	355496	11.066	ppbv 98
15) Acetone	3.86	43	715145	10.472	ppbv 98
16) 1,3-Butadiene	3.34	39	419655	10.828	ppbv 99
17) tert-Butyl alcohol	4.30	59	697629	11.697	ppbv 99
18) 1,1-Dichloroethene	4.30	96	369900	11.391	ppbv 99
19) Isopropyl Alcohol	3.98	45	398387	10.522	ppbv 99
20) Methylene Chloride	4.36	84	303722	10.559	ppbv 97
21) Allyl Chloride	4.43	41	558427	11.362	ppbv 98
22) trans-1,2-Dichloroethene	4.90	96	399157	11.850	ppbv 99
23) Vinyl Acetate	5.09	43	809519	12.241	ppbv 98
24) 1,1-Dichloroethane	5.02	63	716030	10.994	ppbv 99
25) Ethyl Acetate	5.69	43	1895892	11.028	ppbv 100
26) Hexane	5.70	57	835886	10.861	ppbv 99
27) Carbon Disulfide	4.56	76	950754	12.592	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	677172	11.811	ppbv 100
29) Chloroform	5.77	83	1333323	10.819	ppbv 99
30) Cyclohexane	7.15	84	734942	10.982	ppbv 100
31) cis-1,2-Dichloroethene	5.56	61	814145	11.250	ppbv 99
32) 1,1,1-Trichloroethane	6.53	97	1321148	11.109	ppbv 99
34) 2-Butanone	5.26	43	841433	9.403	ppbv 98
35) Carbon Tetrachloride	7.03	117	1384562	10.555	ppbv 99
36) Benzene	6.91	78	1828528	10.479	ppbv 100
37) 1,2-Dichloroethane	6.32	62	918618	10.349	ppbv 99
38) Trichloroethene	7.85	130	796771	10.900	ppbv 97
39) 1,2-Dichloropropane	7.63	63	688375	10.091	ppbv 99
40) 1,4-Dioxane	7.84	88	255327	10.778	ppbv 97
41) Tetrahydrofuran	6.06	42	715290	10.740	ppbv 100
42) Bromodichloromethane	7.81	83	1420662	10.675	ppbv 99
43) Methyl Methacrylate	8.03	69	737055	11.377	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	2958433	10.098	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	835785	12.689	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1052129	11.813	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	764334	10.495	ppbv	99
48) Dibromochloromethane	10.32	129	1323890	11.605	ppbv	99
49) Bromoform	13.06	173	1110800	11.947	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1816143	10.917	ppbv	100
51) 2-Hexanone	10.15	43	1406281	11.768	ppbv #	100
52) Tetrachloroethene	11.24	164	698385	10.937	ppbv	97
53) Toluene	9.82	91	2104595	11.225	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1117702	11.240	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	909212	10.411	ppbv	97
57) Chlorobenzene	12.16	112	1568014	10.321	ppbv	99
58) Ethyl Benzene	12.73	91	2753023	11.179	ppbv	99
59) m/p-Xylene	13.01	91	4539391m	21.073	ppbv	
60) o-Xylene	13.71	91	2130086	10.414	ppbv	97
61) Styrene	13.54	104	1351009	12.180	ppbv	99
62) Isopropylbenzene	14.68	105	3233788	10.517	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	1445337	9.123	ppbv	99
64) n-propylbenzene	15.57	120	886470	10.987	ppbv	97
65) tert-Butylbenzene	16.76	119	2893902	10.474	ppbv	98
66) Benzyl Chloride	17.00	91	755157	14.434	ppbv	99
67) sec-Butylbenzene	17.31	105	4127117	10.445	ppbv	100
69) p-Isopropyltoluene	17.67	119	3487145	10.813	ppbv	99
70) n-Butylbenzene	18.56	91	3545627	10.660	ppbv	99
71) 2-Chlorotoluene	15.47	91	2379262	10.425	ppbv	98
72) 4-Ethyltoluene	15.85	105	2742227	11.358	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	2406328	10.937	ppbv	99
74) 1,2,4-Trimethylbenzene	16.78	105	2510971	10.478	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	1620542	10.617	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	1601767	10.552	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	1592210	10.530	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	1295681	9.271	ppbv	100
79) Naphthalene	22.21	128	2425443	13.247	ppbv	100
80) Naphthalene, 2-methyl-	24.98	142	662856	13.501	ppbv	98
81) 1,2,4-Trichlorobenzene	21.94	180	1415913	11.297	ppbv	100

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

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