

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040522\
 Data File : VL038813.D
 Acq On : 5 Apr 2022 16:36
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/07/2022
 Supervised By : Mahesh Dadoda 04/07/2022

Quant Time: Apr 05 17:23:59 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 05 2022

QLast Update : Tue Apr 05 17:22:42 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.665	49	1481899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	4029808	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.079	117	3874040	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.407 95 2806446 9.449 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.051	85	393066	1.973	ppbv	98
3) Chlorodifluoromethane	2.993	51	374011	2.390	ppbv	99
4) Chloromethane	3.144	50	195270	2.272	ppbv	95
5) Vinyl Chloride	3.260	62	173709	1.990	ppbv	98
6) Bromomethane	3.475	94	85917	1.846	ppbv	88
7) Chloroethane	3.559	64	55686	1.927	ppbv	97
8) Dichlorotetrafluoroethane	3.189	85	407995	2.051	ppbv	100
9) Propene	3.012	41	192584	2.549	ppbv	92
10) Heptane	8.118	43	507516	2.810	ppbv	99
11) Trichlorofluoromethane	3.954	101	352722	2.006	ppbv	93
12) 1,1,2-Trichlorotrifluoro...	4.488	101	266019	1.965	ppbv	94
13) Ethanol	3.613	45	10894m	1.307	ppbv	
14) Bromoethene	3.739	108	118854	1.976	ppbv	96
15) Acetone	3.851	43	309763m	2.423	ppbv	
16) 1,3-Butadiene	3.327	39	171326	2.361	ppbv	96
17) tert-Butyl alcohol	4.292	59	261356m	2.340	ppbv	
18) 1,1-Dichloroethene	4.288	96	125524m	2.064	ppbv	
19) Isopropyl Alcohol	3.970	45	150142m	2.118	ppbv	
20) Methylene Chloride	4.343	84	104616	1.942	ppbv	88
21) Allyl Chloride	4.411	41	221311	2.405	ppbv	99
22) trans-1,2-Dichloroethene	4.886	96	122494	1.942	ppbv	96
23) Vinyl Acetate	5.070	43	284687	2.299	ppbv #	94
24) 1,1-Dichloroethane	5.009	63	271940	2.230	ppbv	99
25) Ethyl Acetate	5.677	43	769139	2.389	ppbv	99
26) Hexane	5.684	57	361486	2.508	ppbv	98
27) Carbon Disulfide	4.549	76	323279	2.287	ppbv	94
28) Methyl tert-Butyl Ether	5.038	73	270713	2.522	ppbv	97
29) Chloroform	5.748	83	487837	2.114	ppbv	96
30) Cyclohexane	7.128	84	315869	2.521	ppbv	90
31) cis-1,2-Dichloroethene	5.546	61	322801	2.382	ppbv	98
32) 1,1,1-Trichloroethane	6.507	97	496472	2.230	ppbv	98
34) 2-Butanone	5.247	43	309974	1.943	ppbv	95
35) Carbon Tetrachloride	7.012	117	518732	2.219	ppbv	97
36) Benzene	6.886	78	767791	2.469	ppbv	96
37) 1,2-Dichloroethane	6.301	62	357330	2.259	ppbv	99
38) Trichloroethene	7.832	130	311700	2.392	ppbv	98
39) 1,2-Dichloropropane	7.607	63	295275	2.429	ppbv	96
40) 1,4-Dioxane	7.845	88	102265m	2.422	ppbv	
41) Tetrahydrofuran	6.054	42	313338	2.640	ppbv	98
42) Bromodichloromethane	7.787	83	545378	2.299	ppbv	98
43) Methyl Methacrylate	8.009	69	296471	2.568	ppbv	97
44) 2,2,4-Trimethylpentane	7.864	57	1349411	2.584	ppbv	99
45) t-1,3-Dichloropropene	9.272	75	299746	2.553	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.700	75	411797	2.594	ppbv	96
47) 1,1,2-Trichloroethane	9.472	97	293966	2.265	ppbv	97
48) Dibromochloromethane	10.295	129	479152	2.356	ppbv	97
49) Bromoform	13.031	173	388780	2.346	ppbv	99
50) 4-Methyl-2-Pentanone	8.738	43	770176	2.597	ppbv	100
51) 2-Hexanone	10.134	43	583114	2.738	ppbv #	99
52) Tetrachloroethene	11.217	164	259927	2.284	ppbv	96
53) Toluene	9.796	91	911666	2.728	ppbv	99
54) 1,2-Dibromoethane	10.600	107	401427	2.265	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.121	131	354399m	2.207	ppbv	
57) Chlorobenzene	12.140	112	661542	2.368	ppbv	94
58) Ethyl Benzene	12.700	91	1200065	2.650	ppbv	93
59) m/p-Xylene	12.989	91	2024033m	5.109	ppbv	
60) o-Xylene	13.684	91	949727	2.525	ppbv	98
61) Styrene	13.516	104	567375	2.781	ppbv	99
62) Isopropylbenzene	14.658	105	1434238	2.536	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.667	83	581368	1.995	ppbv	100
64) n-propylbenzene	15.555	120	371644	2.505	ppbv	91
65) tert-Butylbenzene	16.738	119	1262271	2.484	ppbv	97
66) Benzyl Chloride	16.976	91	257422	2.676	ppbv	98
67) sec-Butylbenzene	17.285	105	1819191	2.503	ppbv	99
69) p-Isopropyltoluene	17.642	119	1527807	2.576	ppbv	98
70) n-Butylbenzene	18.542	91	1538702m	2.515	ppbv	
71) 2-Chlorotoluene	15.446	91	1073305	2.557	ppbv	98
72) 4-Ethyltoluene	15.828	105	1108273	2.496	ppbv	99
73) 1,3,5-Trimethylbenzene	15.986	105	1026773	2.538	ppbv	97
74) 1,2,4-Trimethylbenzene	16.751	105	1122381	2.547	ppbv	97
75) 1,3-Dichlorobenzene	16.986	146	624288	2.224	ppbv	99
76) 1,4-Dichlorobenzene	17.127	146	633969m	2.271	ppbv	
77) 1,2-Dichlorobenzene	17.806	146	603895	2.172	ppbv	98
78) Hexachloro-1,3-Butadiene	23.362	225	501708	1.952	ppbv	99
79) Naphthalene	22.182	128	859144	2.552	ppbv	98
80) Naphthalene,2-methyl-	24.966	142	206976	2.292	ppbv	93
81) 1,2,4-Trichlorobenzene	21.915	180	473683	2.055	ppbv	98

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

