

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038231.D
 Acq On : 29 Dec 2021 13:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 29 18:40:37 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Dec 29 18:40:37 2021

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.677	49	739918	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.185	114	2014743	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.095	117	1703889m	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.423 95 1505130 11.463 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 114.600%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.063	85	1187574	8.518 ppbv	98
3) Chlorodifluoromethane	3.002	51	1348787	8.675 ppbv	99
4) Chloromethane	3.156	50	466162	8.647 ppbv	97
5) Vinyl Chloride	3.272	62	473732	8.742 ppbv	99
6) Bromomethane	3.488	94	265406	9.612 ppbv	94
7) Chloroethane	3.571	64	164589	9.020 ppbv	99
8) Dichlorotetrafluoroethane	3.201	85	1124246	8.497 ppbv	96
9) Propene	3.025	41	458844	8.499 ppbv	99
10) Heptane	8.131	43	1150594	8.402 ppbv	99
11) Trichlorofluoromethane	3.963	101	1134900	8.863 ppbv	96
12) 1,1,2-Trichlorotrifluoro...	4.497	101	830365	8.586 ppbv	96
13) Ethanol	3.619	45	68642m	7.500 ppbv	
14) Bromoethene	3.755	108	351121	9.113 ppbv	97
15) Acetone	3.861	43	590269	7.949 ppbv	96
16) 1,3-Butadiene	3.343	39	455103	8.996 ppbv	99
17) tert-Butyl alcohol	4.301	59	713158	8.744 ppbv	99
18) 1,1-Dichloroethene	4.301	96	370400	8.745 ppbv	99
19) Isopropyl Alcohol	3.976	45	408024	8.809 ppbv	100
20) Methylene Chloride	4.356	84	312240	7.447 ppbv	97
21) Allyl Chloride	4.423	41	566999	9.026 ppbv	96
22) trans-1,2-Dichloroethene	4.896	96	391650	9.063 ppbv	96
23) Vinyl Acetate	5.082	43	932059	9.270 ppbv	98
24) 1,1-Dichloroethane	5.025	63	767743	8.538 ppbv	100
25) Ethyl Acetate	5.687	43	1801172	8.953 ppbv	99
26) Hexane	5.697	57	827658	8.199 ppbv	96
27) Carbon Disulfide	4.562	76	979830	11.027 ppbv	100
28) Methyl tert-Butyl Ether	5.044	73	802969	7.916 ppbv	99
29) Chloroform	5.761	83	1349400	9.009 ppbv	98
30) Cyclohexane	7.140	84	704964	7.885 ppbv	90
31) cis-1,2-Dichloroethene	5.558	61	845910	10.686 ppbv	93
32) 1,1,1-Trichloroethane	6.520	97	1359241	9.146 ppbv	98
34) 2-Butanone	5.256	43	601984	9.941 ppbv	99
35) Carbon Tetrachloride	7.028	117	1414430	11.373 ppbv	99
36) Benzene	6.902	78	1749513	9.309 ppbv	97
37) 1,2-Dichloroethane	6.317	62	1011372	10.725 ppbv	98
38) Trichloroethene	7.844	130	633446	8.857 ppbv	96
39) 1,2-Dichloropropane	7.619	63	686707	9.494 ppbv	97
40) 1,4-Dioxane	7.841	88	171545	8.153 ppbv	95
41) Tetrahydrofuran	6.063	42	445032	10.033 ppbv	97
42) Bromodichloromethane	7.799	83	1506182	11.226 ppbv	99
43) Methyl Methacrylate	8.021	69	659656	10.200 ppbv	96
44) 2,2,4-Trimethylpentane	7.880	57	2927682	9.171 ppbv	98
45) t-1,3-Dichloropropene	9.285	75	613077	12.809 ppbv	96

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.709	75	767026	11.577	ppbv	96
47) 1,1,2-Trichloroethane	9.484	97	681150	9.074	ppbv	98
48) Dibromochloromethane	10.310	129	1184817	11.224	ppbv	99
49) Bromoform	13.047	173	855836	11.411	ppbv	98
50) 4-Methyl-2-Pentanone	8.751	43	1208697	10.978	ppbv	98
51) 2-Hexanone	10.143	43	565645	10.734	ppbv #	97
52) Tetrachloroethene	11.227	164	545611	7.865	ppbv	96
53) Toluene	9.815	91	1936753	8.932	ppbv	99
54) 1,2-Dibromoethane	10.619	107	988789	9.285	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.134	131	727982	10.272	ppbv	96
57) Chlorobenzene	12.153	112	1292461	8.746	ppbv	93
58) Ethyl Benzene	12.716	91	2516658	9.518	ppbv	97
59) m/p-Xylene	13.005	91	4256675m	18.831	ppbv	
60) o-Xylene	13.699	91	1909429	9.111	ppbv	97
61) Styrene	13.535	104	964430	9.085	ppbv	93
62) Isopropylbenzene	14.670	105	2515163	8.548	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.683	83	1337338	8.298	ppbv	99
64) n-propylbenzene	15.568	120	639835	8.746	ppbv	89
65) tert-Butylbenzene	16.748	119	2183189	8.429	ppbv	96
66) Benzyl Chloride	16.995	91	145315	15.054	ppbv	96
67) sec-Butylbenzene	17.301	105	3048609	8.566	ppbv	99
69) p-Isopropyltoluene	17.657	119	2425373	8.474	ppbv	98
70) n-Butylbenzene	18.555	91	2479088	9.110	ppbv	98
71) 2-Chlorotoluene	15.458	91	1912890	8.734	ppbv	98
72) 4-Ethyltoluene	15.847	105	2113235	8.756	ppbv	98
73) 1,3,5-Trimethylbenzene	16.002	105	1901818	8.805	ppbv	99
74) 1,2,4-Trimethylbenzene	16.770	105	1972496	8.695	ppbv	97
75) 1,3-Dichlorobenzene	17.002	146	1069714	8.730	ppbv	99
76) 1,4-Dichlorobenzene	17.143	146	1021435	8.402	ppbv	99
77) 1,2-Dichlorobenzene	17.825	146	1010019	8.609	ppbv	99
78) Hexachloro-1,3-Butadiene	23.378	225	606623	8.380	ppbv	100
79) Naphthalene	22.201	128	1175452	10.031	ppbv	98
80) Naphthalene,2-methyl-	24.972	142	201120	8.650	ppbv #	91
81) 1,2,4-Trichlorobenzene	21.927	180	633985	9.461	ppbv	99

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

