

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036956.D
 Acq On : 18 May 2021 5:47
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:25 PM

Quant Time: May 18 11:51:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1327149	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3979744	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3889871m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2981283	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2326217	10.276	ppbv	99
3) Chlorodifluoromethane	2.97	51	3182006	12.199	ppbv	99
4) Chloromethane	3.12	50	1139386	13.371	ppbv	100
5) Vinyl Chloride	3.24	62	1227384	13.214	ppbv	99
6) Bromomethane	3.46	94	642369	13.709	ppbv	99
7) Chloroethane	3.54	64	437497	14.629	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	2709741	12.691	ppbv	100
9) Propene	2.99	41	1170100	15.733	ppbv	99
10) Heptane	8.10	43	2866263	16.192	ppbv	100
11) Trichlorofluoromethane	3.93	101	2820143	13.839	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2003046	14.551	ppbv	100
13) Ethanol	3.59	45	123273m	8.733	ppbv	
14) Bromoethene	3.72	108	893262	16.174	ppbv	99
15) Acetone	3.83	43	1503596	12.063	ppbv	99
16) 1,3-Butadiene	3.31	39	1176894	14.596	ppbv	100
17) tert-Butyl alcohol	4.28	59	1454435	12.626	ppbv	100
18) 1,1-Dichloroethene	4.27	96	923806	16.330	ppbv	100
19) Isopropyl Alcohol	3.95	45	799189	11.255	ppbv #	86
20) Methylene Chloride	4.33	84	798710m	7.848	ppbv	
21) Allyl Chloride	4.39	41	1433992	15.627	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	935661	16.123	ppbv	98
23) Vinyl Acetate	5.06	43	3105811	17.522	ppbv	99
24) 1,1-Dichloroethane	4.99	63	2004154	14.880	ppbv	100
25) Ethyl Acetate	5.66	43	4322121	14.036	ppbv	100
26) Hexane	5.67	57	2109389	13.338	ppbv	99
27) Carbon Disulfide	4.53	76	2356111	16.826	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2566179	16.794	ppbv	100
29) Chloroform	5.73	83	3154562	13.295	ppbv	97
30) Cyclohexane	7.11	84	1890673	15.630	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	2112604	17.052	ppbv	98
32) 1,1,1-Trichloroethane	6.49	97	3274872	12.948	ppbv	99
34) 2-Butanone	5.23	43	2147757	14.112	ppbv	99
35) Carbon Tetrachloride	7.00	117	3368514	10.829	ppbv	98
36) Benzene	6.87	78	4463835	13.963	ppbv	99
37) 1,2-Dichloroethane	6.29	62	2358004	12.434	ppbv	100
38) Trichloroethene	7.81	130	1700616	12.969	ppbv	99
39) 1,2-Dichloropropane	7.59	63	1754784	13.399	ppbv	99
40) 1,4-Dioxane	7.81	88	334877	9.805	ppbv #	100
41) Tetrahydrofuran	6.03	42	1133978	18.245	ppbv	100
42) Bromodichloromethane	7.77	83	3509476	12.568	ppbv	99
43) Methyl Methacrylate	7.99	69	1648541	17.718	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	7130166	12.546	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1399577	16.658	ppbv	100
46) cis-1,3-Dichloropropene	8.68	75	1756978	14.935	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1842824	12.830	ppbv	99
48) Dibromochloromethane	10.28	129	3132569	14.497	ppbv	100
49) Bromoform	13.02	173	2671872	15.021	ppbv	100
50) 4-Methyl-2-Pentanone	8.72	43	3261767	15.660	ppbv	100
51) 2-Hexanone	10.11	43	1828133	20.598	ppbv #	99
52) Tetrachloroethene	11.20	164	1723528	14.668	ppbv	97
53) Toluene	9.78	91	5233237	16.411	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2678516	14.282	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	2074059	11.597	ppbv #	61
57) Chlorobenzene	12.13	112	3791865	11.550	ppbv	99
58) Ethyl Benzene	12.69	91	6750723	14.600	ppbv	95
59) m/p-Xylene	12.97	91	10995065m	25.303	ppbv	
60) o-Xylene	13.67	91	5238278	12.464	ppbv	100
61) Styrene	13.51	104	3350941	19.415	ppbv	99
62) Isopropylbenzene	14.64	105	7404884	12.920	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	3655174	9.204	ppbv	99
64) n-propylbenzene	15.54	120	2110902	14.882	ppbv	93
65) tert-Butylbenzene	16.73	119	6563535	12.912	ppbv	99
66) Benzyl Chloride	16.97	91	443339	9.582	ppbv	99
67) sec-Butylbenzene	17.27	105	9015997	12.554	ppbv	98
69) p-Isopropyltoluene	17.63	119	7881439	14.422	ppbv	98
70) n-Butylbenzene	18.53	91	7856531	14.341	ppbv	99
71) 2-Chlorotoluene	15.43	91	5616955	13.706	ppbv	99
72) 4-Ethyltoluene	15.82	105	6555876	15.055	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	5997411	14.096	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	6053400	12.957	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	3929934	12.976	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	3966984m	14.659	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	3840254	14.005	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	2805758	11.456	ppbv	99
79) Naphthalene	22.17	128	6128896	29.043	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	1614026	52.189	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	3423731	22.671	ppbv	97

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

