

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037461.D
 Acq On : 16 Aug 2021 14:18
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:17 PM

Quant Time: Aug 16 14:52:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 2021
 QLast Update : Mon Aug 16 11:33:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1505967	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4567279	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4145145	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2979317	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2949797	12.821	ppbv	97
3) Chlorodifluoromethane	2.98	51	3838994	12.981	ppbv	99
4) Chloromethane	3.13	50	1398876	13.159	ppbv	96
5) Vinyl Chloride	3.25	62	1436038	12.261	ppbv	96
6) Bromomethane	3.47	94	805280	13.258	ppbv	99
7) Chloroethane	3.55	64	513582m	13.280	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	3279813	12.772	ppbv	100
9) Propene	3.00	41	1357591	13.671	ppbv	98
10) Heptane	8.11	43	3460991	14.332	ppbv	99
11) Trichlorofluoromethane	3.94	101	3112381	12.501	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2344367	13.442	ppbv	99
13) Ethanol	3.60	45	132631m	12.515	ppbv	
14) Bromoethene	3.73	108	1065380m	13.733	ppbv	
15) Acetone	3.84	43	1797233	11.253	ppbv	99
16) 1,3-Butadiene	3.32	39	1424676	13.291	ppbv	97
17) tert-Butyl alcohol	4.28	59	1814077	11.900	ppbv	100
18) 1,1-Dichloroethene	4.28	96	1055177	13.031	ppbv	97
19) Isopropyl Alcohol	3.96	45	1070430	11.516	ppbv	99
20) Methylene Chloride	4.33	84	915964	10.846	ppbv	96
21) Allyl Chloride	4.40	41	1764385	14.098	ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	1161194	15.288	ppbv	100
23) Vinyl Acetate	5.06	43	2786193	11.369	ppbv	99
24) 1,1-Dichloroethane	5.00	63	2182417	11.466	ppbv	99
25) Ethyl Acetate	5.66	43	5355815	14.071	ppbv	100
26) Hexane	5.67	57	2523659	12.848	ppbv	100
27) Carbon Disulfide	4.54	76	2722847	16.442	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2287366	10.881	ppbv	100
29) Chloroform	5.74	83	3686289	13.329	ppbv	97
30) Cyclohexane	7.11	84	2184242	13.502	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	2480153	14.607	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	3645877	13.063	ppbv	99
34) 2-Butanone	5.23	43	2523696m	13.384	ppbv	
35) Carbon Tetrachloride	7.01	117	3855554	13.689	ppbv	99
36) Benzene	6.88	78	5353625	13.901	ppbv	98
37) 1,2-Dichloroethane	6.29	62	2715219	13.815	ppbv	99
38) Trichloroethene	7.82	130	2081364	12.245	ppbv	98
39) 1,2-Dichloropropane	7.60	63	2046040	13.946	ppbv	96
40) 1,4-Dioxane	7.82	88	442583m	12.397	ppbv	
41) Tetrahydrofuran	6.03	42	1281356	14.797	ppbv	99
42) Bromodichloromethane	7.78	83	4006975	14.560	ppbv	95
43) Methyl Methacrylate	8.00	69	1958838	15.007	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	8580511	13.326	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1769301	18.241	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	2254394	16.649	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	2190441	13.812	ppbv	95
48) Dibromochloromethane	10.29	129	3595746	15.714	ppbv	99
49) Bromoform	13.03	173	2971441	17.138	ppbv	100
50) 4-Methyl-2-Pentanone	8.73	43	3531624	14.888	ppbv	100
51) 2-Hexanone	10.12	43	1760044	15.770	ppbv #	97
52) Tetrachloroethene	11.21	164	1976727	12.184	ppbv	97
53) Toluene	9.79	91	6226818	14.162	ppbv	100
54) 1,2-Dibromoethane	10.60	107	3255453	15.083	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	2376126	14.400	ppbv	96
57) Chlorobenzene	12.13	112	4506495	13.414	ppbv	99
58) Ethyl Benzene	12.70	91	7998259	14.224	ppbv	99
59) m/p-Xylene	12.98	91	13171840m	26.666	ppbv	
60) o-Xylene	13.68	91	6178401	13.464	ppbv	100
61) Styrene	13.51	104	3728816	16.084	ppbv	100
62) Isopropylbenzene	14.65	105	8688461	13.240	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	4520504	13.063	ppbv	99
64) n-propylbenzene	15.55	120	2353062	14.250	ppbv	95
65) tert-Butylbenzene	16.73	119	7628376	12.890	ppbv	99
66) Benzyl Chloride	16.97	91	511616	18.894	ppbv	99
67) sec-Butylbenzene	17.28	105	10632673	13.204	ppbv	98
69) p-Isopropyltoluene	17.64	119	9100465	13.770	ppbv	99
70) n-Butylbenzene	18.54	91	8976467	14.613	ppbv	99
71) 2-Chlorotoluene	15.44	91	6511503	14.028	ppbv	100
72) 4-Ethyltoluene	15.82	105	7736495	14.525	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	7007076	13.915	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	7019961	13.616	ppbv	96
75) 1,3-Dichlorobenzene	16.98	146	4465792	14.154	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	4531887m	14.488	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	4357337	14.353	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	3307076	13.449	ppbv	99
79) Naphthalene	22.17	128	6132351	21.885	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	1849572	31.252	ppbv	98
81) 1,2,4-Trichlorobenzene	21.91	180	3571893	18.761	ppbv	98

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

