

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037458.D
 Acq On : 16 Aug 2021 12:22
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:06 PM

Quant Time: Aug 17 02:11:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 02:11:44 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	1537078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	4519200	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3954892	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2887432	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	171862	0.732	ppbv	96
3) Chlorodifluoromethane	2.98	51	161435	0.535	ppbv	98
4) Chloromethane	3.12	50	57227m	0.527	ppbv	
5) Vinyl Chloride	3.25	62	52696m	0.441	ppbv	
6) Bromomethane	3.47	94	32684m	0.527	ppbv	
7) Chloroethane	3.54	64	18770m	0.476	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	136259	0.520	ppbv	97
9) Propene	3.00	41	58212m	0.574	ppbv	
10) Heptane	8.11	43	118242	0.480	ppbv	93
11) Trichlorofluoromethane	3.94	101	127800m	0.503	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	91979m	0.517	ppbv	
13) Ethanol	3.62	45	5044m	0.466	ppbv	
14) Bromoethene	3.73	108	40969m	0.517	ppbv	
15) Acetone	3.86	43	91165m	0.559	ppbv	
16) 1,3-Butadiene	3.31	39	50829	0.465	ppbv	98
17) tert-Butyl alcohol	4.31	59	74446m	0.478	ppbv	
18) 1,1-Dichloroethene	4.27	96	41324m	0.500	ppbv	
19) Isopropyl Alcohol	3.98	45	45795m	0.483	ppbv	
20) Methylene Chloride	4.33	84	48280m	0.560	ppbv	
21) Allyl Chloride	4.40	41	68194m	0.534	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	38176m	0.492	ppbv	
23) Vinyl Acetate	5.07	43	133062m	0.532	ppbv	
24) 1,1-Dichloroethane	5.00	63	86411m	0.445	ppbv	
25) Ethyl Acetate	5.67	43	202122m	0.520	ppbv	
26) Hexane	5.67	57	102150m	0.510	ppbv	
27) Carbon Disulfide	4.54	76	80409m	0.476	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	101885m	0.475	ppbv	
29) Chloroform	5.73	83	147197m	0.521	ppbv	
30) Cyclohexane	7.11	84	86343m	0.523	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	85362m	0.493	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	131820	0.463	ppbv	96
34) 2-Butanone	5.25	43	94473m	0.506	ppbv	
35) Carbon Tetrachloride	7.00	117	134091m	0.481	ppbv	
36) Benzene	6.87	78	189062m	0.496	ppbv	
37) 1,2-Dichloroethane	6.29	62	98700m	0.508	ppbv	
38) Trichloroethene	7.81	130	80134m	0.476	ppbv	
39) 1,2-Dichloropropane	7.59	63	73955m	0.509	ppbv	
40) 1,4-Dioxane	7.86	88	17025m	0.482	ppbv	
41) Tetrahydrofuran	6.07	42	44217m	0.516	ppbv	
42) Bromodichloromethane	7.77	83	142556m	0.524	ppbv	
43) Methyl Methacrylate	8.00	69	65842m	0.510	ppbv	

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44) 2,2,4-Trimethylpentane	7.85	57	336922	0.529	ppbv	98
45) t-1,3-Dichloropropene	9.26	75	42117m	0.439	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	61081m	0.456	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	81799m	0.521	ppbv	
48) Dibromochloromethane	10.28	129	102787	0.454	ppbv	98
49) Bromoform	13.02	173	77051m	0.449	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	121042m	0.516	ppbv	
51) 2-Hexanone	10.15	43	50794m	0.460	ppbv	
52) Tetrachloroethene	11.20	164	80297m	0.500	ppbv	
53) Toluene	9.78	91	216025m	0.497	ppbv	
54) 1,2-Dibromoethane	10.59	107	113045m	0.529	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.10	131	85900m	0.546	ppbv	
57) Chlorobenzene	12.12	112	183131m	0.571	ppbv	
58) Ethyl Benzene	12.69	91	279972m	0.522	ppbv	
59) m/p-Xylene	12.98	91	488400m	1.036	ppbv	
60) o-Xylene	13.67	91	229712	0.525	ppbv	100
61) Styrene	13.51	104	100493m	0.454	ppbv	
62) Isopropylbenzene	14.64	105	339380m	0.542	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.66	83	176352m	0.534	ppbv	
64) n-propylbenzene	15.54	120	79881	0.507	ppbv	81
65) tert-Butylbenzene	16.73	119	300910m	0.533	ppbv	
66) Benzyl Chloride	16.98	91	9123m	0.353	ppbv	
67) sec-Butylbenzene	17.28	105	424419m	0.552	ppbv	
69) p-Isopropyltoluene	17.63	119	325240m	0.516	ppbv	
70) n-Butylbenzene	18.53	91	302572m	0.516	ppbv	
71) 2-Chlorotoluene	15.43	91	240417	0.543	ppbv	94
72) 4-Ethyltoluene	15.82	105	259999m	0.512	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	246375m	0.513	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	281176m	0.572	ppbv	
75) 1,3-Dichlorobenzene	16.97	146	171195m	0.569	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	164681m	0.552	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	159498m	0.551	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	148105m	0.631	ppbv	
79) Naphthalene	22.18	128	134296m	0.502	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	28545m	0.506	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	98003m	0.540	ppbv	

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

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