

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061421\
 Data File : VL037148.D
 Acq On : 14 Jun 2021 14:15
 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
 6/15/2021 6:30:22 PM

Quant Time: Jun 14 14:54:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1641344	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4770288	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4274524	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3153426	9.82	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	166448	0.598	ppbv	98
3) Chlorodifluoromethane	2.99	51	156322	0.520	ppbv	98
4) Chloromethane	3.15	50	50884	0.497	ppbv	98
5) Vinyl Chloride	3.26	62	51308	0.459	ppbv #	84
6) Bromomethane	3.48	94	31470m	0.534	ppbv	
7) Chloroethane	3.56	64	18207	0.501	ppbv #	85
8) Dichlorotetrafluoroethane	3.19	85	144112	0.551	ppbv	93
9) Propene	3.01	41	52653	0.489	ppbv	99
10) Heptane	8.13	43	112251	0.418	ppbv	99
11) Trichlorofluoromethane	3.96	101	148054	0.574	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.49	101	98027	0.534	ppbv	91
13) Ethanol	3.63	45	7439m	0.518	ppbv	
14) Bromoethene	3.75	108	42863m	0.530	ppbv	
15) Acetone	3.88	43	112446m	0.669	ppbv	
16) 1,3-Butadiene	3.33	39	49970	0.478	ppbv	93
17) tert-Butyl alcohol	4.34	59	81756m	0.531	ppbv	
18) 1,1-Dichloroethene	4.30	96	46335m	0.546	ppbv	
19) Isopropyl Alcohol	4.01	45	52242m	0.578	ppbv	
20) Methylene Chloride	4.35	84	50345m	0.559	ppbv	
21) Allyl Chloride	4.42	41	65896m	0.520	ppbv	
22) trans-1,2-Dichloroethene	4.90	96	42218m	0.519	ppbv	
23) Vinyl Acetate	5.10	43	121878m	0.457	ppbv	
24) 1,1-Dichloroethane	5.02	63	96559	0.503	ppbv	98
25) Ethyl Acetate	5.70	43	186120m	0.461	ppbv	
26) Hexane	5.69	57	94926m	0.460	ppbv	
27) Carbon Disulfide	4.56	76	82957m	0.399	ppbv	
28) Methyl tert-Butyl Ether	5.06	73	112452	0.455	ppbv	99
29) Chloroform	5.76	83	152247	0.522	ppbv	99
30) Cyclohexane	7.14	84	82083m	0.468	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	86689m	0.469	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	140581	0.449	ppbv	96
34) 2-Butanone	5.28	43	91311m	0.526	ppbv	
35) Carbon Tetrachloride	7.03	117	147656	0.466	ppbv	99
36) Benzene	6.90	78	181636	0.442	ppbv	96
37) 1,2-Dichloroethane	6.32	62	103588	0.508	ppbv	99
38) Trichloroethene	7.85	130	81169m	0.462	ppbv	
39) 1,2-Dichloropropane	7.63	63	68487	0.433	ppbv	96
40) 1,4-Dioxane	7.90	88	20137m	0.539	ppbv	
41) Tetrahydrofuran	6.10	42	39515m	0.399	ppbv	
42) Bromodichloromethane	7.80	83	131586	0.427	ppbv #	86
43) Methyl Methacrylate	8.04	69	56113m	0.396	ppbv	

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44) 2,2,4-Trimethylpentane	7.88	57	311421	0.442	ppbv	95
45) t-1,3-Dichloropropene	9.29	75	42055m	0.389	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	63524m	0.437	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	83101m	0.502	ppbv	
48) Dibromochloromethane	10.32	129	106216m	0.396	ppbv	
49) Bromoform	13.05	173	71646m	0.323	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	119521m	0.417	ppbv	
51) 2-Hexanone	10.19	43	57864m	0.382	ppbv	
52) Tetrachloroethene	11.24	164	78589	0.481	ppbv	95
53) Toluene	9.82	91	207713m	0.425	ppbv	
54) 1,2-Dibromoethane	10.62	107	114982m	0.488	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	89956	0.500	ppbv #	1
57) Chlorobenzene	12.16	112	176202	0.532	ppbv	94
58) Ethyl Benzene	12.73	91	275982	0.457	ppbv	93
59) m/p-Xylene	13.01	91	482825m	0.968	ppbv	
60) o-Xylene	13.70	91	233934	0.492	ppbv	97
61) Styrene	13.54	104	103103m	0.385	ppbv	
62) Isopropylbenzene	14.68	105	343451	0.502	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.69	83	163437	0.460	ppbv	99
64) n-propylbenzene	15.58	120	78400m	0.445	ppbv	
65) tert-Butylbenzene	16.76	119	297719	0.483	ppbv	93
66) Benzyl Chloride	17.02	91	10905m	0.319	ppbv	
67) sec-Butylbenzene	17.31	105	416720m	0.495	ppbv	
69) p-Isopropyltoluene	17.67	119	324479m	0.449	ppbv	
70) n-Butylbenzene	18.57	91	281897m	0.410	ppbv	
71) 2-Chlorotoluene	15.47	91	231273	0.468	ppbv	100
72) 4-Ethyltoluene	15.85	105	256797m	0.455	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	266116m	0.502	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	250868	0.458	ppbv #	90
75) 1,3-Dichlorobenzene	17.00	146	154960m	0.463	ppbv	
76) 1,4-Dichlorobenzene	17.16	146	163255m	0.482	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	160277m	0.478	ppbv	
78) Hexachloro-1,3-Butadiene	23.39	225	127561m	0.473	ppbv	
79) Naphthalene	22.23	128	96730m	0.225	ppbv	
80) Naphthalene, 2-methyl-	25.13	142	15997m	0.171	ppbv	
81) 1,2,4-Trichlorobenzene	21.96	180	75153m	0.287	ppbv	

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

