

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037378.D
 Acq On : 11 Aug 2021 4:22
 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

apatel
 8/12/2021 10:16:41 AM

Quant Time: Aug 11 08:54:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 11 08:54:48 2021
 QLast Update : Wed Aug 11 03:21:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1229337	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3816850	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3343354	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2518301	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	137916	0.658	ppbv	93
3) Chlorodifluoromethane	2.99	51	130681	0.551	ppbv	95
4) Chloromethane	3.14	50	46951m	0.589	ppbv	
5) Vinyl Chloride	3.26	62	42510	0.487	ppbv	99
6) Bromomethane	3.48	94	26434m	0.520	ppbv	
7) Chloroethane	3.56	64	17384m	0.555	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	105516	0.489	ppbv	94
9) Propene	3.01	41	46625m	0.610	ppbv	
10) Heptane	8.12	43	93406	0.502	ppbv	94
11) Trichlorofluoromethane	3.95	101	101724m	0.461	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	74695m	0.483	ppbv	
13) Ethanol	3.63	45	5373m	0.461	ppbv	
14) Bromoethene	3.74	108	33601m	0.510	ppbv	
15) Acetone	3.87	43	65326	0.477	ppbv #	42
16) 1,3-Butadiene	3.33	39	45511m	0.559	ppbv	
17) tert-Butyl alcohol	4.33	59	55816m	0.454	ppbv	
18) 1,1-Dichloroethene	4.29	96	32988m	0.479	ppbv	
19) Isopropyl Alcohol	4.00	45	39664m	0.490	ppbv	
20) Methylene Chloride	4.35	84	40225	0.493	ppbv	88
21) Allyl Chloride	4.41	41	51729m	0.504	ppbv	
22) trans-1,2-Dichloroethene	4.88	96	30022m	0.441	ppbv	
23) Vinyl Acetate	5.08	43	87507	0.441	ppbv #	89
24) 1,1-Dichloroethane	5.01	63	77158	0.490	ppbv #	97
25) Ethyl Acetate	5.69	43	165075m	0.548	ppbv	
26) Hexane	5.68	57	85034m	0.560	ppbv	
27) Carbon Disulfide	4.55	76	58156m	0.404	ppbv	
28) Methyl tert-Butyl Ether	5.05	73	82031m	0.459	ppbv	
29) Chloroform	5.75	83	122202m	0.528	ppbv	
30) Cyclohexane	7.12	84	70597m	0.559	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	71505m	0.514	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	106141m	0.431	ppbv	
34) 2-Butanone	5.26	43	80991m	0.552	ppbv	
35) Carbon Tetrachloride	7.02	117	106846m	0.428	ppbv	
36) Benzene	6.89	78	157078	0.510	ppbv	98
37) 1,2-Dichloroethane	6.30	62	81792m	0.468	ppbv	
38) Trichloroethene	7.83	130	63205	0.435	ppbv #	85
39) 1,2-Dichloropropane	7.61	63	50112	0.440	ppbv	93
40) 1,4-Dioxane	7.88	88	18043m	0.575	ppbv	
41) Tetrahydrofuran	6.07	42	35293m	0.515	ppbv	
42) Bromodichloromethane	7.79	83	107416m	0.446	ppbv	
43) Methyl Methacrylate	8.02	69	53316m	0.503	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	255802	0.492	ppbv	95
45) t-1,3-Dichloropropene	9.28	75	31731m	0.352	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	46429m	0.375	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	65031m	0.501	ppbv	
48) Dibromochloromethane	10.29	129	81073	0.404	ppbv	98
49) Bromoform	13.03	173	60993m	0.408	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	92282m	0.459	ppbv	
51) 2-Hexanone	10.17	43	36138m	0.375	ppbv	
52) Tetrachloroethene	11.22	164	61362m	0.434	ppbv	
53) Toluene	9.79	91	177690m	0.484	ppbv	
54) 1,2-Dibromoethane	10.60	107	89896m	0.483	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	67582	0.474	ppbv #	1
57) Chlorobenzene	12.14	112	142359m	0.529	ppbv	
58) Ethyl Benzene	12.70	91	231623m	0.505	ppbv	
59) m/p-Xylene	12.98	91	417260m	1.072	ppbv	
60) o-Xylene	13.68	91	188936	0.512	ppbv	100
61) Styrene	13.53	104	83692m	0.443	ppbv	
62) Isopropylbenzene	14.66	105	265643	0.505	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	139521m	0.559	ppbv	
64) n-propylbenzene	15.55	120	64012m	0.490	ppbv	
65) tert-Butylbenzene	16.74	119	246276	0.529	ppbv	98
66) Benzyl Chloride	16.98	91	8006m	0.390	ppbv	
67) sec-Butylbenzene	17.29	105	336526m	0.536	ppbv	
69) p-Isopropyltoluene	17.65	119	254435	0.484	ppbv	99
70) n-Butylbenzene	18.54	91	224418	0.458	ppbv	99
71) 2-Chlorotoluene	15.45	91	188577	0.511	ppbv	99
72) 4-Ethyltoluene	15.83	105	212530m	0.504	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	201208m	0.495	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	201046	0.481	ppbv	94
75) 1,3-Dichlorobenzene	16.99	146	128137m	0.504	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	121243m	0.477	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	119682m	0.486	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	104597m	0.497	ppbv	
79) Naphthalene	22.20	128	75577m	0.227	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	9488m	0.119	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	65134m	0.332	ppbv	

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

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