

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037412.D
 Acq On : 12 Aug 2021 12:55
 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
 8/13/2021 11:06:52 AM

Quant Time: Aug 12 14:00:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 12 14:00:00 2021
 QLast Update : Thu Aug 12 11:34:23 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1290976	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3961494	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3441228	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2426823	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	129235	0.554	ppbv	99
3) Chlorodifluoromethane	2.99	51	141165	0.588	ppbv	98
4) Chloromethane	3.14	50	47603	0.538	ppbv	97
5) Vinyl Chloride	3.26	62	43833	0.485	ppbv #	82
6) Bromomethane	3.47	94	27247m	0.550	ppbv	
7) Chloroethane	3.56	64	17366m	0.562	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	121459	0.597	ppbv	96
9) Propene	3.01	41	47765m	0.584	ppbv	
10) Heptane	8.12	43	104998m	0.543	ppbv	
11) Trichlorofluoromethane	3.95	101	116088	0.592	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	77710	0.557	ppbv	87
13) Ethanol	3.64	45	5703m	0.578	ppbv	
14) Bromoethene	3.74	108	33401	0.523	ppbv	89
15) Acetone	3.87	43	75251m	0.612	ppbv	
16) 1,3-Butadiene	3.33	39	47571m	0.551	ppbv	
17) tert-Butyl alcohol	4.33	59	69973m	0.636	ppbv	
18) 1,1-Dichloroethene	4.29	96	37829m	0.598	ppbv	
19) Isopropyl Alcohol	4.01	45	42833m	0.605	ppbv	
20) Methylene Chloride	4.34	84	43146m	0.646	ppbv	
21) Allyl Chloride	4.41	41	53087m	0.550	ppbv	
22) trans-1,2-Dichloroethene	4.88	96	36547m	0.611	ppbv	
23) Vinyl Acetate	5.08	43	92475	0.468	ppbv #	95
24) 1,1-Dichloroethane	5.01	63	86062	0.554	ppbv	97
25) Ethyl Acetate	5.69	43	161225	0.512	ppbv #	95
26) Hexane	5.69	57	95192m	0.597	ppbv	
27) Carbon Disulfide	4.55	76	55852	0.418	ppbv #	90
28) Methyl tert-Butyl Ether	5.05	73	84782	0.498	ppbv	92
29) Chloroform	5.75	83	127893	0.559	ppbv	95
30) Cyclohexane	7.13	84	69785m	0.529	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	70484	0.493	ppbv	92
32) 1,1,1-Trichloroethane	6.50	97	110710	0.499	ppbv	96
34) 2-Butanone	5.27	43	92589m	0.615	ppbv	
35) Carbon Tetrachloride	7.01	117	112623	0.510	ppbv	98
36) Benzene	6.89	78	171615	0.546	ppbv	99
37) 1,2-Dichloroethane	6.30	62	88394m	0.550	ppbv	
38) Trichloroethene	7.83	130	70149m	0.524	ppbv	
39) 1,2-Dichloropropane	7.62	63	68152m	0.593	ppbv	
40) 1,4-Dioxane	7.89	88	15255m	0.498	ppbv	
41) Tetrahydrofuran	6.09	42	35817m	0.506	ppbv	
42) Bromodichloromethane	7.79	83	110692	0.487	ppbv #	82
43) Methyl Methacrylate	8.02	69	53796m	0.492	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	282553	0.539	ppbv	95
45) t-1,3-Dichloropropene	9.29	75	33868m	0.412	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	50335m	0.453	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	72880m	0.563	ppbv	
48) Dibromochloromethane	10.30	129	87495m	0.458	ppbv	
49) Bromoform	13.04	173	59312m	0.395	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	98206m	0.499	ppbv	
51) 2-Hexanone	10.18	43	45594m	0.523	ppbv	
52) Tetrachloroethene	11.22	164	67420m	0.526	ppbv	
53) Toluene	9.81	91	190181m	0.522	ppbv	
54) 1,2-Dibromoethane	10.60	107	93301m	0.509	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	64518	0.485	ppbv #	1
57) Chlorobenzene	12.14	112	152071m	0.573	ppbv	
58) Ethyl Benzene	12.71	91	222976	0.485	ppbv	94
59) m/p-Xylene	12.99	91	420838m	1.064	ppbv	
60) o-Xylene	13.68	91	203266	0.554	ppbv	98
61) Styrene	13.52	104	86932m	0.458	ppbv	
62) Isopropylbenzene	14.66	105	287803	0.557	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.67	83	146458m	0.528	ppbv	
64) n-propylbenzene	15.55	120	71724m	0.547	ppbv	
65) tert-Butylbenzene	16.74	119	257047	0.552	ppbv	94
66) Benzyl Chloride	16.99	91	9061m	0.459	ppbv	
67) sec-Butylbenzene	17.28	105	343911m	0.537	ppbv	
69) p-Isopropyltoluene	17.65	119	261088	0.505	ppbv	98
70) n-Butylbenzene	18.55	91	235486	0.485	ppbv	98
71) 2-Chlorotoluene	15.45	91	198301	0.526	ppbv	98
72) 4-Ethyltoluene	15.83	105	211657	0.494	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	220010m	0.553	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	220699m	0.546	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	136334m	0.555	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	139259m	0.578	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	131630m	0.556	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	117140m	0.618	ppbv	
79) Naphthalene	22.20	128	76336m	0.347	ppbv	
80) Naphthalene, 2-methyl-	24.99	142	9795m	0.226	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	64731m	0.429	ppbv	

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

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