

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035802.D
 Acq On : 3 Nov 2020 12:25
 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
 11/5/2020 2:13:18 PM

Quant Time: Nov 03 14:15:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 03 14:15:29 2020
 QLast Update : Tue Nov 03 11:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1356197	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	5715152	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	5317210	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3862101	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	164505	0.739	ppbv	95
3) Chlorodifluoromethane	2.98	51	86961	0.596	ppbv	100
4) Chloromethane	3.13	50	41007	0.523	ppbv	100
5) Vinyl Chloride	3.25	62	50139	0.541	ppbv	94
6) Bromomethane	3.47	94	39811	0.508	ppbv	93
7) Chloroethane	3.55	64	16026	0.471	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	156660	0.580	ppbv	97
9) Propene	3.01	41	30976	0.585	ppbv #	81
10) Heptane	8.12	43	86757	0.587	ppbv	96
11) Trichlorofluoromethane	3.94	101	172049	0.542	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	127800	0.540	ppbv	96
13) Ethanol	3.62	45	7409m	0.567	ppbv	
14) Bromoethene	3.73	108	57321	0.575	ppbv #	91
15) Acetone	3.86	43	83847	0.575	ppbv #	85
16) 1,3-Butadiene	3.32	39	34179	0.640	ppbv	96
17) tert-Butyl alcohol	4.30	59	120626m	0.759	ppbv	
18) 1,1-Dichloroethene	4.29	96	56442	0.545	ppbv	92
19) Isopropyl Alcohol	3.97	45	54322m	0.684	ppbv	
20) Methylene Chloride	4.34	84	62374	0.582	ppbv	95
21) Allyl Chloride	4.40	41	37642	0.532	ppbv #	82
22) trans-1,2-Dichloroethene	4.88	96	61844m	0.565	ppbv	
23) Vinyl Acetate	5.07	43	122772	0.687	ppbv	98
24) 1,1-Dichloroethane	5.01	63	102592	0.527	ppbv	99
25) Ethyl Acetate	5.68	43	148529	0.566	ppbv #	96
26) Hexane	5.68	57	87124	0.605	ppbv	97
27) Carbon Disulfide	4.55	76	117728	0.549	ppbv #	97
28) Methyl tert-Butyl Ether	5.04	73	153276	0.672	ppbv	100
29) Chloroform	5.74	83	166365	0.569	ppbv	90
30) Cyclohexane	7.13	84	91664	0.646	ppbv	88
31) cis-1,2-Dichloroethene	5.54	61	84393	0.608	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	162424	0.631	ppbv	99
34) 2-Butanone	5.25	43	99628	0.527	ppbv	94
35) Carbon Tetrachloride	7.02	117	155087	0.520	ppbv	97
36) Benzene	6.88	78	232662	0.625	ppbv #	96
37) 1,2-Dichloroethane	6.30	62	100579	0.518	ppbv	97
38) Trichloroethene	7.83	130	108988m	0.587	ppbv	
39) 1,2-Dichloropropane	7.61	63	79114m	0.586	ppbv	
40) 1,4-Dioxane	7.86	88	42924m	0.695	ppbv	
41) Tetrahydrofuran	6.07	42	53730	0.564	ppbv	91
42) Bromodichloromethane	7.79	83	170373	0.545	ppbv	92
43) Methyl Methacrylate	8.01	69	84893	0.573	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	313597	0.587	ppbv	97
45) t-1,3-Dichloropropene	9.28	75	81753	0.547	ppbv	95
46) cis-1,3-Dichloropropene	8.70	75	111833	0.607	ppbv	92
47) 1,1,2-Trichloroethane	9.47	97	106354	0.550	ppbv	96
48) Dibromochloromethane	10.30	129	149153	0.507	ppbv	100
49) Bromoform	13.04	173	124509	0.499	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	147510	0.534	ppbv	99
51) 2-Hexanone	10.15	43	117472m	0.528	ppbv	
52) Tetrachloroethene	11.22	164	106691	0.596	ppbv	98
53) Toluene	9.81	91	286471	0.652	ppbv	99
54) 1,2-Dibromoethane	10.61	107	158474	0.547	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	132670	0.595	ppbv #	1
57) Chlorobenzene	12.14	112	248060	0.618	ppbv	95
58) Ethyl Benzene	12.71	91	377269	0.707	ppbv	98
59) m/p-Xylene	13.00	91	640015m	1.373	ppbv	
60) o-Xylene	13.69	91	309712	0.657	ppbv	100
61) Styrene	13.53	104	218083	0.669	ppbv	97
62) Isopropylbenzene	14.67	105	513214	0.702	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.68	83	220031	0.569	ppbv	99
64) n-propylbenzene	15.57	120	143559	0.671	ppbv	79
65) tert-Butylbenzene	16.75	119	471262	0.709	ppbv	94
66) Benzyl Chloride	17.00	91	163005m	0.809	ppbv	
67) sec-Butylbenzene	17.30	105	643637	0.701	ppbv	96
69) p-Isopropyltoluene	17.66	119	538608	0.721	ppbv	95
70) n-Butylbenzene	18.56	91	510434	0.664	ppbv	98
71) 2-Chlorotoluene	15.46	91	374574	0.702	ppbv	99
72) 4-Ethyltoluene	15.85	105	394727	0.707	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	354293	0.671	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	390431	0.656	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	237791	0.585	ppbv	98
76) 1,4-Dichlorobenzene	17.14	146	233798	0.602	ppbv	97
77) 1,2-Dichlorobenzene	17.83	146	238459	0.622	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	108878m	0.514	ppbv	
79) Naphthalene	22.22	128	264965	0.467	ppbv	99
80) Naphthalene, 2-methyl-	25.00	142	34559	0.258	ppbv	95
81) 1,2,4-Trichlorobenzene	21.94	180	145474	0.495	ppbv	99

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

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