

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090420\
 Data File : VX018249.D
 Acq On : 04 Sep 2020 10:17
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 5:16:44 PM

Quant Time: Sep 04 12:10:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 11:54:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	80846	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	413239	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	400282	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	197981	30.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.10%
60) 4-Bromofluorobenzene	11.12	95	200911	29.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.23%
63) Toluene-d8	8.70	98	528824	30.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	23411	5.071 ug/l	95
3) Chloromethane	1.31	50	23691	5.061 ug/l	98
4) Vinyl Chloride	1.39	62	24380	5.176 ug/l	100
5) Bromomethane	1.63	94	17569	5.803 ug/l	81
6) Chloroethane	1.71	64	15336	5.599 ug/l	94
7) Trichlorofluoromethane	1.92	101	43396	5.761 ug/l	94
8) Diethyl Ether	2.17	74	13084	5.717 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	22265	6.153 ug/l	100
10) 1,1-Dichloroethene	2.36	96	21011	6.106 ug/l	89
11) Methyl Iodide	2.49	142	11445	2.964 ug/l	92
12) Methyl Acetate	2.75	43	25994	5.229 ug/l	100
13) Acrolein	2.28	56	12529	19.435 ug/l	97
14) Acrylonitrile	3.11	53	58438	27.850 ug/l	99
15) Acetone	2.42	58	17810	30.794 ug/l	87
16) Carbon Disulfide	2.55	76	62756	6.803 ug/l	100
17) Allyl chloride	2.71	41	35750	5.633 ug/l	98
18) Methylene Chloride	2.84	84	26239	6.546 ug/l	93
19) trans-1,2-Dichloroethene	3.15	96	23284	6.393 ug/l	82
20) Diisopropyl ether	3.82	45	70415	5.545 ug/l #	76
21) 1,1-Dichloroethane	3.67	63	42430	6.113 ug/l	97
22) cis-1,2-Dichloroethene	4.56	96	25007m	5.800 ug/l	
23) tert-Butyl Alcohol	3.01	59	27216	28.511 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	70001	5.408 ug/l	99
25) Chloroform	5.17	83	45796	6.014 ug/l	96
26) Cyclohexane	5.55	56	31923	5.402 ug/l #	53
29) 1,1-Dichloropropene	5.77	75	30854	5.999 ug/l	86
30) 2-Butanone	4.63	43	83887	29.258 ug/l #	84
31) 2,2-Dichloropropane	4.55	77	39342m	6.123 ug/l	
32) 1,1,1-Trichloroethane	5.46	97	42128	6.111 ug/l	99
33) Carbon Tetrachloride	5.75	117	38856	6.091 ug/l	98
34) Benzene	6.10	78	90209	6.144 ug/l #	94
35) Methacrylonitrile	5.00	41	16194	5.224 ug/l	91
36) 1,2-Dichloroethane	6.16	62	37031	6.017 ug/l #	100
37) Trichloroethene	7.19	130	27675	6.460 ug/l	88
38) Methylcyclohexane	7.44	83	30854	5.163 ug/l	100
39) 1,2-Dichloropropane	7.49	63	24984	6.291 ug/l	97
40) Dibromomethane	7.63	93	18054	6.367 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.87	83	36462	5.942	ug/l	93
42) Vinyl Acetate	3.78	43	297584	30.020	ug/l	99
43) Ethyl Acetate	4.79	43	33665	6.131	ug/l #	89
44) Isopropyl Acetate	6.41	43	52716	5.636	ug/l	95
45) 1,4-Dioxane	7.71	88	9111	104.797	ug/l #	83
46) Methyl methacrylate	7.74	41	24911	5.459	ug/l	97
47) n-amyl Acetate	10.88	43	40404	5.207	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	34336	5.220	ug/l	95
49) cis-1,3-Dichloropropene	8.41	75	38880	5.480	ug/l	93
50) 1,1,2-Trichloroethane	9.20	97	24376	6.133	ug/l	95
51) Ethyl methacrylate	9.16	69	29970	5.139	ug/l	95
52) 1,3-Dichloropropane	9.35	76	40022	6.093	ug/l	100
53) Dibromochloromethane	9.56	129	28862	5.681	ug/l	97
54) 1,2-Dibromoethane	9.65	107	26193	5.974	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	75287	23.851	ug/l	98
56) Bromoform	10.84	173	21921	5.817	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	156691	26.693	ug/l	100
59) 2-Hexanone	9.47	43	114771	26.991	ug/l	96
61) Tetrachloroethene	9.32	164	27422	6.123	ug/l #	81
62) Toluene	8.76	91	101997	6.147	ug/l	97
64) Chlorobenzene	10.12	112	64139	5.788	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.20	131	26395	5.826	ug/l	98
66) Ethyl Benzene	10.24	91	102591	5.560	ug/l	94
67) m/p-Xylenes	10.34	106	77342	11.137	ug/l	94
68) o-Xylene	10.68	106	35003	5.170	ug/l	94
69) Styrene	10.70	104	58743	4.951	ug/l	98
70) Isopropylbenzene	11.00	105	96988	4.958	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	36810	6.430	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	35851m	6.338	ug/l	
73) Bromobenzene	11.24	156	29968	5.756	ug/l	99
74) n-propylbenzene	11.34	91	118414	5.261	ug/l	99
75) 2-Chlorotoluene	11.40	91	73610	5.397	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	85483	5.172	ug/l	97
77) t-1,4-Dichloro-2-butene	11.06	75	12422	5.609	ug/l	92
78) 4-Chlorotoluene	11.49	91	87616	5.509	ug/l	98
79) tert-butylbenzene	11.76	119	79465	4.904	ug/l	96
80) 1,2,4-Trimethylbenzene	11.79	105	80179	4.670	ug/l	96
81) sec-Butylbenzene	11.93	105	94729	4.924	ug/l	97
82) p-Isopropyltoluene	12.05	119	86444	4.922	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	53800	5.638	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	52846	5.580	ug/l	97
85) n-Butylbenzene	12.37	91	76117	4.578	ug/l	97
86) Hexachloroethane	12.58	117	18485	4.978	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	49580	5.275	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	8832	5.603	ug/l	93
89) 1,2,4-Trichlorobenzene	13.63	180	30333	4.669	ug/l	99
90) Hexachlorobutadiene	13.76	225	13251	4.455	ug/l	83
91) Naphthalene	13.82	128	84389	4.365	ug/l	98
92) 1,2,3-Trichlorobenzene	14.00	180	30233	4.822	ug/l	97

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

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