

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009263.D
 Acq On : 01 May 2019 18:47
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:57 AM

Quant Time: May 02 07:11:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31204	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	178003	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	157218	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	75022	28.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.60%
60) 4-Bromofluorobenzene	11.13	95	79532	29.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.23%
63) Toluene-d8	8.71	98	222458	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	33467	20.184	ug/l 99
3) Chloromethane	1.32	50	45101	20.237	ug/l 99
4) Vinyl Chloride	1.40	62	43677	19.644	ug/l 97
5) Bromomethane	1.64	94	27409	19.448	ug/l 97
6) Chloroethane	1.72	64	28791	19.745	ug/l 99
7) Trichlorofluoromethane	1.93	101	55210	20.110	ug/l 97
8) Diethyl Ether	2.18	74	26237	20.581	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	35029	20.608	ug/l 99
10) 1,1-Dichloroethene	2.37	96	34227	20.054	ug/l 96
11) Methyl Iodide	2.51	142	36824	19.847	ug/l 100
12) Methyl Acetate	2.77	43	64429	20.042	ug/l 98
13) Acrolein	2.29	56	36425	82.611	ug/l 100
14) Acrylonitrile	3.14	53	142492	102.134	ug/l 99
15) Acetone	2.44	58	39280	98.062	ug/l 96
16) Carbon Disulfide	2.57	76	90860	19.676	ug/l 99
17) Allyl chloride	2.73	41	82536	20.143	ug/l 98
18) Methylene Chloride	2.85	84	41998	20.361	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	36909	20.282	ug/l 99
20) Diisopropyl ether	3.85	45	163515	20.264	ug/l 99
21) 1,1-Dichloroethane	3.70	63	79120	20.261	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	43887	20.022	ug/l 97
23) tert-Butyl Alcohol	3.04	59	59715	101.224	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	135288	20.255	ug/l 100
25) Chloroform	5.21	83	71933	20.186	ug/l 99
26) Cyclohexane	5.58	56	73385	20.164	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	53154	20.351	ug/l 98
30) 2-Butanone	4.67	43	215123	105.169	ug/l 99
31) 2,2-Dichloropropane	4.58	77	57407	19.937	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	59185	20.903	ug/l 98
33) Carbon Tetrachloride	5.79	117	48117	20.311	ug/l 99
34) Benzene	6.14	78	170137	21.129	ug/l 99
35) Methacrylonitrile	5.04	41	44748	20.909	ug/l 97
36) 1,2-Dichloroethane	6.19	62	61358	21.000	ug/l 99
37) Trichloroethene	7.21	130	39739	20.501	ug/l 98
38) Methylcyclohexane	7.46	83	66119	20.490	ug/l 100
39) 1,2-Dichloropropane	7.51	63	47035	20.512	ug/l 94
40) Dibromomethane	7.66	93	27261	20.946	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	53906	20.277	ug/l	100
42) Vinyl Acetate	3.81	43	713641	105.708	ug/l	99
43) Ethyl Acetate	4.83	43	78336	21.194	ug/l	98
44) Isopropyl Acetate	6.45	43	125099	20.892	ug/l	98
45) 1,4-Dioxane	7.74	88	24979	424.903	ug/l	98
46) Methyl methacrylate	7.77	41	61090	20.441	ug/l	99
47) n-amyl Acetate	10.90	43	109006	20.209	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	63054	20.328	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	68659	20.163	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	41922	21.024	ug/l	98
51) Ethyl methacrylate	9.18	69	75080	20.376	ug/l	98
52) 1,3-Dichloropropane	9.37	76	74350	21.010	ug/l	99
53) Dibromochloromethane	9.58	129	40742	20.516	ug/l	99
54) 1,2-Dibromoethane	9.67	107	41760	20.420	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	194481	99.048	ug/l	99
56) Bromoform	10.85	173	29976	19.664	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	406129	105.057	ug/l	99
59) 2-Hexanone	9.49	43	315718	104.124	ug/l	100
61) Tetrachloroethene	9.34	164	37321	21.534	ug/l	97
62) Toluene	8.78	91	178229	21.215	ug/l	99
64) Chlorobenzene	10.13	112	105763	20.918	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	37848	20.444	ug/l	100
66) Ethyl Benzene	10.25	91	195861	20.928	ug/l	98
67) m/p-Xylenes	10.36	106	142091	41.583	ug/l	100
68) o-Xylene	10.69	106	70024	20.841	ug/l	100
69) Styrene	10.71	104	120841	20.488	ug/l	99
70) Isopropylbenzene	11.02	105	188466	20.857	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	69106	20.883	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	60224m	21.118	ug/l	
73) Bromobenzene	11.26	156	45849	20.537	ug/l	99
74) n-propylbenzene	11.36	91	213292	20.369	ug/l	99
75) 2-Chlorotoluene	11.42	91	129342	20.594	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	159794	20.877	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	21451	18.648	ug/l	98
78) 4-Chlorotoluene	11.51	91	145989	20.466	ug/l	99
79) tert-butylbenzene	11.77	119	152711	20.638	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	157663	20.552	ug/l	99
81) sec-Butylbenzene	11.94	105	178525	20.307	ug/l	100
82) p-Isopropyltoluene	12.06	119	162643	20.338	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	79755	20.004	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	80082	20.160	ug/l	99
85) n-Butylbenzene	12.38	91	143817	19.654	ug/l	100
86) Hexachloroethane	12.60	117	26701	19.622	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	82083	20.452	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15666	20.372	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	57802	20.206	ug/l	99
90) Hexachlorobutadiene	13.78	225	28521	19.960	ug/l	99
91) Naphthalene	13.83	128	197067	21.041	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	60150	20.685	ug/l	99

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

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