

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080218\
 Data File : VX003819.D
 Acq On : 02 Aug 2018 12:03
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/3/2018 9:48:13 AM

Quant Time: Aug 03 03:25:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	23354	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	111823	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	105040	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	46739	27.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	90.87%
60) 4-Bromofluorobenzene	11.14	95	50968	30.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.47%
63) Toluene-d8	8.71	98	140674	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	32457	26.31	ug/l	95
3) Chloromethane	1.32	50	40052	24.13	ug/l	94
4) Vinyl Chloride	1.40	62	30577	17.51	ug/l	99
5) Bromomethane	1.64	94	16273	15.59	ug/l	91
6) Chloroethane	1.72	64	19303	16.89	ug/l	98
7) Trichlorofluoromethane	1.93	101	40997	17.46	ug/l	92
8) Diethyl Ether	2.19	74	16854	16.74	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	25099	17.63	ug/l	98
10) 1,1-Dichloroethene	2.37	96	24450	18.26	ug/l	82
11) Methyl Iodide	2.51	142	25747	13.87	ug/l	90
12) Methyl Acetate	3.21	43	14919	6.02	ug/l	91
13) Acrolein	2.29	56	22782	117.90	ug/l	97
14) Acrylonitrile	3.15	53	77131	79.01	ug/l	98
15) Acetone	2.45	58	22843	86.23	ug/l	91
16) Carbon Disulfide	2.57	76	64915	17.46	ug/l	97
17) Allyl chloride	2.73	41	44545	16.08	ug/l	88
18) Methylene Chloride	2.86	84	28868	18.20	ug/l	90
19) trans-1,2-Dichloroethene	3.17	96	24361	16.83	ug/l	88
20) Diisopropyl ether	3.87	45	84388	16.58	ug/l #	95
21) 1,1-Dichloroethane	3.70	63	48420	16.81	ug/l	99
22) cis-1,2-Dichloroethene	4.59	96	29988	20.52	ug/l #	76
23) tert-Butyl Alcohol	3.07	59	32406	79.03	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	81248	16.92	ug/l #	89
25) Chloroform	5.21	83	48306	19.36	ug/l	98
26) Cyclohexane	5.57	56	41623	19.23	ug/l #	95
29) 1,1-Dichloropropene	5.79	75	34275	20.76	ug/l	96
30) 2-Butanone	4.70	43	109735	104.06	ug/l	93
31) 2,2-Dichloropropane	4.57	77	36419	22.77	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	38915	20.60	ug/l	100
33) Carbon Tetrachloride	5.78	117	34602	21.08	ug/l	92
34) Benzene	6.14	78	106864	21.06	ug/l #	92
35) Methacrylonitrile	5.06	41	23245	21.21	ug/l	90
36) 1,2-Dichloroethane	6.20	62	35645	19.55	ug/l	96
37) Trichloroethene	7.21	130	26622	20.13	ug/l	90
38) Methylcyclohexane	7.46	83	36807	19.62	ug/l	98
39) 1,2-Dichloropropane	7.52	63	26603	19.84	ug/l	99
40) Dibromomethane	7.67	93	17338	19.98	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	31959	19.28	ug/l	99
42) Vinyl Acetate	3.82	43	340393	84.01	ug/l	99
43) Ethyl Acetate	4.86	43	42199	21.42	ug/l	95
44) Isopropyl Acetate	6.46	43	56653	18.75	ug/l	93
45) 1,4-Dioxane	7.76	88	12949	385.93	ug/l #	85
46) Methyl methacrylate	7.78	41	29706	19.06	ug/l	86
47) n-amyl Acetate	10.90	43	50117	17.57	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	40022	19.90	ug/l	100
49) cis-1,3-Dichloropropene	9.04	75	36356	19.26	ug/l	91
50) 1,1,2-Trichloroethane	9.22	97	26590	19.31	ug/l	97
51) Ethyl methacrylate	9.18	69	37318	17.99	ug/l	83
52) 1,3-Dichloropropane	9.37	76	43967	19.18	ug/l	99
53) Dibromochloromethane	9.59	129	26320	19.45	ug/l	99
54) 1,2-Dibromoethane	9.67	107	27747	19.26	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	98461	92.05	ug/l	99
56) Bromoform	10.86	173	20069	19.12	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	192090	96.85	ug/l	93
59) 2-Hexanone	9.50	43	146096	92.51	ug/l	93
61) Tetrachloroethene	9.34	164	25350	20.74	ug/l	99
62) Toluene	8.79	91	109150	20.02	ug/l	99
64) Chlorobenzene	10.14	112	71230	20.22	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	25499	20.45	ug/l	98
66) Ethyl Benzene	10.25	91	117666	19.61	ug/l	98
67) m/p-Xylenes	10.36	106	93217	40.34	ug/l	97
68) o-Xylene	10.70	106	44438	20.10	ug/l	96
69) Styrene	10.71	104	74267	19.84	ug/l	97
70) Isopropylbenzene	11.02	105	119111	19.57	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	41654	19.17	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	37702m	20.86	ug/l	
73) Bromobenzene	11.26	156	33389	20.36	ug/l	96
74) n-propylbenzene	11.36	91	140227	19.56	ug/l	99
75) 2-Chlorotoluene	11.42	91	83806	19.83	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	101798	19.71	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	11995	19.48	ug/l	98
78) 4-Chlorotoluene	11.51	91	97700	19.76	ug/l	98
79) tert-butylbenzene	12.07	119	106224	19.99	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	104546	19.78	ug/l	97
81) sec-Butylbenzene	11.94	105	118961	19.78	ug/l	100
82) p-Isopropyltoluene	12.07	119	106224	19.99	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	62072	20.72	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	63203	20.96	ug/l	99
85) n-Butylbenzene	12.39	91	92447	19.60	ug/l	99
86) Hexachloroethane	12.60	117	15675	18.31	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	62224	20.69	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	8717	19.01	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	46287	21.92	ug/l	99
90) Hexachlorobutadiene	13.79	225	21310	22.26	ug/l	98
91) Naphthalene	13.83	128	134495	20.84	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	47273	21.99	ug/l	99

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

