

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021619\
 Data File : VX007575.D
 Acq On : 15 Feb 2019 18:24
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 10:40:54 AM

Quant Time: Feb 16 04:01:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	80094	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	426336	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	376489	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	154684	29.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.53%
60) 4-Bromofluorobenzene	11.13	95	175549	30.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.27%
63) Toluene-d8	8.71	98	514566	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	81889	20.190	ug/l 100
3) Chloromethane	1.33	50	89927	20.174	ug/l 100
4) Vinyl Chloride	1.41	62	103220	20.587	ug/l 98
5) Bromomethane	1.64	94	79801	17.823	ug/l 100
6) Chloroethane	1.73	64	66987	19.654	ug/l 98
7) Trichlorofluoromethane	1.93	101	159784	20.330	ug/l 97
8) Diethyl Ether	2.19	74	61681	19.646	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	90586	20.428	ug/l 99
10) 1,1-Dichloroethene	2.38	96	89342	20.304	ug/l 94
11) Methyl Iodide	2.51	142	116249	18.382	ug/l 98
12) Methyl Acetate	2.78	43	116952	19.273	ug/l 98
13) Acrolein	2.30	56	105570	99.732	ug/l 97
14) Acrylonitrile	3.15	53	270018	96.572	ug/l 99
15) Acetone	2.45	58	78469	103.411	ug/l 90
16) Carbon Disulfide	2.57	76	229152	19.638	ug/l 100
17) Allyl chloride	2.73	41	155823	20.669	ug/l 98
18) Methylene Chloride	2.86	84	98835	19.973	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	93279	19.820	ug/l 93
20) Diisopropyl ether	3.87	45	281094	19.729	ug/l 97
21) 1,1-Dichloroethane	3.70	63	157588	19.729	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	104761	20.002	ug/l 97
23) tert-Butyl Alcohol	3.07	59	115914	98.634	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	302659	19.820	ug/l 99
25) Chloroform	5.22	83	166818	19.774	ug/l 96
26) Cyclohexane	5.58	56	133818	19.979	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	121235	20.386	ug/l 98
30) 2-Butanone	4.70	43	356194	101.210	ug/l 100
31) 2,2-Dichloropropane	4.59	77	115624	23.931	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	140447	19.759	ug/l 99
33) Carbon Tetrachloride	5.78	117	122948	19.567	ug/l 95
34) Benzene	6.14	78	373626	19.929	ug/l 96
35) Methacrylonitrile	5.06	41	71806	19.623	ug/l 96
36) 1,2-Dichloroethane	6.20	62	123993	19.434	ug/l 99
37) Trichloroethene	7.21	130	108948	20.213	ug/l 98
38) Methylcyclohexane	7.46	83	144060	20.926	ug/l 99
39) 1,2-Dichloropropane	7.52	63	92396	19.814	ug/l 100
40) Dibromomethane	7.66	93	64629	19.190	ug/l 91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	115116	19.261	ug/l	98
42) Vinyl Acetate	3.82	43	1251386	101.585	ug/l	100
43) Ethyl Acetate	4.85	43	138576m	20.561	ug/l	
44) Isopropyl Acetate	6.46	43	207565	19.947	ug/l	100
45) 1,4-Dioxane	7.75	88	47028	382.939	ug/l	97
46) Methyl methacrylate	7.77	41	105836	20.085	ug/l	93
47) n-amyl Acetate	10.90	43	183636	20.022	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	119986	19.447	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	137699	20.042	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	97102	19.774	ug/l	96
51) Ethyl methacrylate	9.18	69	145192	20.395	ug/l	100
52) 1,3-Dichloropropane	9.37	76	160925	20.317	ug/l	99
53) Dibromochloromethane	9.58	129	97754	19.139	ug/l	99
54) 1,2-Dibromoethane	9.67	107	106432	19.794	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	377062	104.177	ug/l	99
56) Bromoform	10.86	173	71977	18.683	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	695038	102.635	ug/l	100
59) 2-Hexanone	9.49	43	535484	104.104	ug/l	99
61) Tetrachloroethene	9.34	164	110079	20.596	ug/l	98
62) Toluene	8.79	91	412775	20.131	ug/l	99
64) Chlorobenzene	10.14	112	269707	20.241	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	94847	19.652	ug/l	98
66) Ethyl Benzene	10.25	91	434534	19.971	ug/l	100
67) m/p-Xylenes	10.36	106	336676	39.450	ug/l	98
68) o-Xylene	10.70	106	165971	19.940	ug/l	99
69) Styrene	10.71	104	268859	20.017	ug/l	99
70) Isopropylbenzene	11.02	105	440553	20.063	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	149086	20.538	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	137947m	20.785	ug/l	
73) Bromobenzene	11.26	156	121637	20.289	ug/l	99
74) n-propylbenzene	11.36	91	492591	20.203	ug/l	99
75) 2-Chlorotoluene	11.42	91	296204	20.318	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	357340	19.935	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	38835	20.271	ug/l	91
78) 4-Chlorotoluene	11.51	91	336496	20.222	ug/l	99
79) tert-butylbenzene	12.06	119	380932	20.013	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	366856	20.161	ug/l	100
81) sec-Butylbenzene	11.94	105	428677	20.026	ug/l	98
82) p-Isopropyltoluene	12.06	119	380932	20.013	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	207617	19.699	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	209842	19.952	ug/l	98
85) n-Butylbenzene	12.38	91	312986	19.816	ug/l	99
86) Hexachloroethane	12.60	117	60638	19.189	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	209265	19.782	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	28572	18.861	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	139090	20.020	ug/l	99
90) Hexachlorobutadiene	13.78	225	68378	21.065	ug/l	99
91) Naphthalene	13.83	128	436407	19.695	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	141508	20.036	ug/l	98

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

