

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091120\
 Data File : VX018373.D
 Acq On : 11 Sep 2020 20:01
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/14/2020 12:10:01 PM

Quant Time: Sep 12 07:25:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	78070	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	394319	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	375674	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	184699	29.99	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.97%
60) 4-Bromofluorobenzene	11.12	95	190536	29.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.53%
63) Toluene-d8	8.70	98	494664	29.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	78110	18.908 ug/l	93
3) Chloromethane	1.31	50	84713	19.305 ug/l	95
4) Vinyl Chloride	1.39	62	91996	19.910 ug/l	98
5) Bromomethane	1.64	94	65152	20.724 ug/l	94
6) Chloroethane	1.71	64	54991	19.581 ug/l	96
7) Trichlorofluoromethane	1.92	101	159172	20.327 ug/l	91
8) Diethyl Ether	2.17	74	49207	19.933 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	76382	19.092 ug/l	99
10) 1,1-Dichloroethene	2.35	96	75055	19.111 ug/l	93
11) Methyl Iodide	2.50	142	75362	20.226 ug/l	96
12) Methyl Acetate	2.75	43	106396	20.581 ug/l	95
13) Acrolein	2.28	56	44674	107.078 ug/l	98
14) Acrylonitrile	3.12	53	229095	97.802 ug/l	99
15) Acetone	2.42	58	61439	96.469 ug/l	83
16) Carbon Disulfide	2.55	76	217292	19.002 ug/l	99
17) Allyl chloride	2.71	41	138052	19.667 ug/l	98
18) Methylene Chloride	2.84	84	89021	19.314 ug/l	96
19) trans-1,2-Dichloroethene	3.15	96	86092	19.745 ug/l	94
20) Diisopropyl ether	3.82	45	272878	19.637 ug/l	92
21) 1,1-Dichloroethane	3.67	63	155778	19.530 ug/l	99
22) cis-1,2-Dichloroethene	4.56	96	93854	19.454 ug/l	98
23) tert-Butyl Alcohol	3.01	59	100182	98.693 ug/l	# 100
24) Methyl tert-Butyl Ether	3.17	73	271121	19.418 ug/l	99
25) Chloroform	5.18	83	168246	19.764 ug/l	99
26) Cyclohexane	5.56	56	124780	19.381 ug/l	# 50
29) 1,1-Dichloropropene	5.77	75	116016	19.275 ug/l	98
30) 2-Butanone	4.63	43	322187	97.758 ug/l	100
31) 2,2-Dichloropropane	4.56	77	128902m	17.729 ug/l	
32) 1,1,1-Trichloroethane	5.46	97	157609	20.005 ug/l	99
33) Carbon Tetrachloride	5.76	117	145546	19.825 ug/l	88
34) Benzene	6.12	78	341462	19.873 ug/l	98
35) Methacrylonitrile	5.00	41	69420	19.987 ug/l	94
36) 1,2-Dichloroethane	6.17	62	142204	19.998 ug/l	# 100
37) Trichloroethene	7.19	130	95957	19.314 ug/l	98
38) Methylcyclohexane	7.44	83	119356	18.616 ug/l	99
39) 1,2-Dichloropropane	7.49	63	88637	19.261 ug/l	96
40) Dibromomethane	7.64	93	65300	19.650 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	134748	19.564	ug/l	93
42) Vinyl Acetate	3.79	43	1229135	99.961	ug/l	100
43) Ethyl Acetate	4.79	43	127526	19.459	ug/l	96
44) Isopropyl Acetate	6.41	43	209130	19.801	ug/l	97
45) 1,4-Dioxane	7.72	88	31163	353.192	ug/l #	89
46) Methyl methacrylate	7.75	41	101574	19.541	ug/l	95
47) n-amyl Acetate	10.88	43	178796	19.266	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	140748	19.024	ug/l	98
49) cis-1,3-Dichloropropene	8.41	75	151483	19.491	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	91969	19.861	ug/l	98
51) Ethyl methacrylate	9.16	69	128426	19.145	ug/l	95
52) 1,3-Dichloropropane	9.35	76	148534	19.325	ug/l	98
53) Dibromochloromethane	9.57	129	113444	19.703	ug/l	99
54) 1,2-Dibromoethane	9.65	107	99282	19.544	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	358479	102.337	ug/l	99
56) Bromoform	10.84	173	85732	19.597	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	656469	101.597	ug/l	100
59) 2-Hexanone	9.48	43	490291	100.178	ug/l	99
61) Tetrachloroethene	9.32	164	89679	19.140	ug/l	93
62) Toluene	8.77	91	371012	19.624	ug/l	100
64) Chlorobenzene	10.12	112	241024	19.838	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	96323	19.576	ug/l	99
66) Ethyl Benzene	10.24	91	414757	19.854	ug/l	94
67) m/p-Xylenes	10.34	106	320628	40.133	ug/l	96
68) o-Xylene	10.68	106	148228	19.636	ug/l	98
69) Styrene	10.69	104	257231	19.531	ug/l	99
70) Isopropylbenzene	11.01	105	407756	19.424	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	134468	19.601	ug/l	96
72) 1,2,3-Trichloropropane	11.28	75	129983m	19.721	ug/l	
73) Bromobenzene	11.24	156	112139	19.499	ug/l	99
74) n-propylbenzene	11.35	91	467995	18.933	ug/l	99
75) 2-Chlorotoluene	11.40	91	299684	20.003	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	352569	19.278	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	48141	18.795	ug/l	92
78) 4-Chlorotoluene	11.49	91	344480	19.275	ug/l	100
79) tert-butylbenzene	11.76	119	339784	19.287	ug/l	96
80) 1,2,4-Trimethylbenzene	11.79	105	361319	19.976	ug/l	98
81) sec-Butylbenzene	11.93	105	397775	19.330	ug/l	100
82) p-Isopropyltoluene	12.05	119	364871	19.017	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	198552	19.309	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	203497	19.792	ug/l	99
85) n-Butylbenzene	12.37	91	311515	18.442	ug/l	99
86) Hexachloroethane	12.58	117	72403	19.167	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	191653	19.904	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	34419	19.612	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	120765	18.538	ug/l	99
90) Hexachlorobutadiene	13.77	225	52894	19.196	ug/l	89
91) Naphthalene	13.82	128	390223	19.194	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	125790	19.518	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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