

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090420\
 Data File : VX018254.D
 Acq On : 04 Sep 2020 12:36
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX090420

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 5:17:20 PM

Quant Time: Sep 05 06:43:57 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	4.99	128	91406	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.83	114	472640	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	446480	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	214547	29.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.17%
60) 4-Bromofluorobenzene	11.12	95	235925	30.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.63%
63) Toluene-d8	8.70	98	597880	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	92943	19.216	ug/l 94
3) Chloromethane	1.31	50	99750	19.415	ug/l 96
4) Vinyl Chloride	1.39	62	102742	18.992	ug/l 97
5) Bromomethane	1.64	94	75600	20.539	ug/l 90
6) Chloroethane	1.72	64	60860	18.509	ug/l 98
7) Trichlorofluoromethane	1.92	101	176837	19.288	ug/l 98
8) Diethyl Ether	2.17	74	53644	18.560	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	90924	19.411	ug/l 99
10) 1,1-Dichloroethene	2.36	96	89020	19.360	ug/l 96
11) Methyl Iodide	2.50	142	78637	18.848	ug/l 98
12) Methyl Acetate	2.75	43	116246	19.206	ug/l 95
13) Acrolein	2.28	56	40744	83.410	ug/l 96
14) Acrylonitrile	3.12	53	256374	93.479	ug/l 99
15) Acetone	2.42	58	71925	96.457	ug/l 86
16) Carbon Disulfide	2.55	76	257490	19.232	ug/l 99
17) Allyl chloride	2.71	41	153032	18.620	ug/l 96
18) Methylene Chloride	2.84	84	100788	18.676	ug/l 92
19) trans-1,2-Dichloroethene	3.14	96	98483	19.291	ug/l 96
20) Diisopropyl ether	3.82	45	309341	19.013	ug/l 91
21) 1,1-Dichloroethane	3.67	63	179290	19.198	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	108050	19.129	ug/l 96
23) tert-Butyl Alcohol	3.01	59	108720	91.478	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	311265	19.041	ug/l 100
25) Chloroform	5.18	83	189530	19.016	ug/l 97
26) Cyclohexane	5.54	56	144466	19.165	ug/l # 51
29) 1,1-Dichloropropene	5.77	75	140687	19.500	ug/l 99
30) 2-Butanone	4.64	43	367113	92.931	ug/l 99
31) 2,2-Dichloropropane	4.55	77	170096	19.518	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	179508	19.009	ug/l 97
33) Carbon Tetrachloride	5.76	117	164765	18.724	ug/l 96
34) Benzene	6.11	78	378129	18.361	ug/l 97
35) Methacrylonitrile	5.00	41	77512	18.619	ug/l 95
36) 1,2-Dichloroethane	6.17	62	159910	18.762	ug/l # 100
37) Trichloroethene	7.19	130	115347	19.369	ug/l 99
38) Methylcyclohexane	7.44	83	147996	19.258	ug/l 97
39) 1,2-Dichloropropane	7.49	63	100122	18.151	ug/l 96
40) Dibromomethane	7.63	93	74718	18.758	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	153847	18.636	ug/l	97
42) Vinyl Acetate	3.79	43	1395318	94.672	ug/l	100
43) Ethyl Acetate	4.79	43	137356	17.486	ug/l	99
44) Isopropyl Acetate	6.41	43	229551	18.133	ug/l	97
45) 1,4-Dioxane	7.71	88	38265	361.818	ug/l #	88
46) Methyl methacrylate	7.75	41	112343	18.032	ug/l	95
47) n-amyl Acetate	10.88	43	201579	18.122	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	169449	19.108	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	173962	18.674	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	103372	18.624	ug/l	99
51) Ethyl methacrylate	9.16	69	142639	17.740	ug/l	99
52) 1,3-Dichloropropane	9.35	76	169292	18.376	ug/l	97
53) Dibromochloromethane	9.57	129	127267	18.441	ug/l	94
54) 1,2-Dibromoethane	9.65	107	113720	18.677	ug/l	95
55) 2-Chloroethyl vinyl ether	8.29	63	401353	95.590	ug/l	99
56) Bromoform	10.84	173	95959	18.300	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	717946	93.490	ug/l	99
59) 2-Hexanone	9.47	43	549832	94.527	ug/l	99
61) Tetrachloroethene	9.32	164	107969	19.390	ug/l	89
62) Toluene	8.77	91	432267	19.238	ug/l	99
64) Chlorobenzene	10.12	112	272040	18.840	ug/l	93
65) 1,1,1,2-Tetrachloroethane	10.20	131	110516	18.898	ug/l	98
66) Ethyl Benzene	10.24	91	475897	19.168	ug/l	98
67) m/p-Xylenes	10.34	106	368003	38.758	ug/l	99
68) o-Xylene	10.68	106	172646	19.244	ug/l	97
69) Styrene	10.70	104	296579	18.948	ug/l	99
70) Isopropylbenzene	11.00	105	474082	19.002	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	152663	18.725	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	149595m	19.097	ug/l	
73) Bromobenzene	11.24	156	127124	18.599	ug/l	99
74) n-propylbenzene	11.34	91	558640	19.016	ug/l	98
75) 2-Chlorotoluene	11.40	91	339796	19.083	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	419035	19.279	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	56850	18.675	ug/l	92
78) 4-Chlorotoluene	11.49	91	408518	19.233	ug/l	100
79) tert-butylbenzene	11.76	119	388835	18.571	ug/l	96
80) 1,2,4-Trimethylbenzene	11.79	105	421515	19.608	ug/l	99
81) sec-Butylbenzene	11.93	105	464448	18.991	ug/l	99
82) p-Isopropyltoluene	12.05	119	438671	19.238	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	241959	19.798	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	234681	19.205	ug/l	97
85) n-Butylbenzene	12.37	91	381520	19.004	ug/l	99
86) Hexachloroethane	12.58	117	83034	18.495	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	227062	19.841	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	38831	18.617	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	155372	20.068	ug/l	98
90) Hexachlorobutadiene	13.77	225	69066	21.090	ug/l	98
91) Naphthalene	13.82	128	447429	18.517	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	149659	19.539	ug/l	98

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

