

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011062.D
 Acq On : 24 Jul 2019 17:35
 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
 7/25/2019 3:55:12 PM

Quant Time: Jul 25 03:47:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	36780	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	204093	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	182865	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	73405	29.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.13%
60) 4-Bromofluorobenzene	11.13	95	90680	30.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.43%
63) Toluene-d8	8.71	98	243966	30.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	49933	20.535 ug/l	96
3) Chloromethane	1.33	50	39913	18.666 ug/l	95
4) Vinyl Chloride	1.41	62	41073	18.420 ug/l	100
5) Bromomethane	1.64	94	27944	22.766 ug/l	100
6) Chloroethane	1.73	64	26150	19.822 ug/l	98
7) Trichlorofluoromethane	1.93	101	74110	20.012 ug/l	94
8) Diethyl Ether	2.19	74	24735	20.339 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	43137	21.075 ug/l	98
10) 1,1-Dichloroethene	2.37	96	39305	19.108 ug/l	97
11) Methyl Iodide	2.51	142	48367	17.510 ug/l	97
12) Methyl Acetate	2.78	43	58329	20.190 ug/l	100
13) Acrolein	2.29	56	28494	82.259 ug/l	97
14) Acrylonitrile	3.14	53	114256	101.048 ug/l	100
15) Acetone	2.44	58	36228	115.061 ug/l	99
16) Carbon Disulfide	2.57	76	83260	15.753 ug/l	98
17) Allyl chloride	2.73	41	56492	18.971 ug/l	95
18) Methylene Chloride	2.86	84	45361	19.805 ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	41580	19.135 ug/l	98
20) Diisopropyl ether	3.85	45	126808	20.171 ug/l	97
21) 1,1-Dichloroethane	3.70	63	71945	19.887 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	49038	19.622 ug/l	96
23) tert-Butyl Alcohol	3.04	59	52060	88.184 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	133496	20.217 ug/l	100
25) Chloroform	5.21	83	78282	19.756 ug/l	97
26) Cyclohexane	5.59	56	61879	18.692 ug/l	# 98
29) 1,1-Dichloropropene	5.80	75	54538	19.002 ug/l	99
30) 2-Butanone	4.67	43	157417	101.606 ug/l	99
31) 2,2-Dichloropropane	4.58	77	58977	23.540 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	67392	19.471 ug/l	98
33) Carbon Tetrachloride	5.78	117	57932	19.251 ug/l	97
34) Benzene	6.14	78	170079	19.755 ug/l	97
35) Methacrylonitrile	5.04	41	32538	20.174 ug/l	96
36) 1,2-Dichloroethane	6.20	62	61637	20.022 ug/l	99
37) Trichloroethene	7.21	130	49177	19.510 ug/l	98
38) Methylcyclohexane	7.46	83	68184	18.823 ug/l	99
39) 1,2-Dichloropropane	7.51	63	41910	19.475 ug/l	99
40) Dibromomethane	7.66	93	31729	20.047 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	55934	19.415	ug/l	99
42) Vinyl Acetate	3.81	43	509209	99.759	ug/l	100
43) Ethyl Acetate	4.83	43	56689	19.062	ug/l	99
44) Isopropyl Acetate	6.44	43	93906	19.386	ug/l	100
45) 1,4-Dioxane	7.74	88	25256	400.589	ug/l	98
46) Methyl methacrylate	7.77	41	46454	19.758	ug/l	95
47) n-amyl Acetate	10.90	43	84769	19.512	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	58821	19.373	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	66556	20.087	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	47774	20.624	ug/l	99
51) Ethyl methacrylate	9.18	69	68935	19.242	ug/l	95
52) 1,3-Dichloropropane	9.37	76	74724	20.074	ug/l	98
53) Dibromochloromethane	9.58	129	47124	18.837	ug/l	98
54) 1,2-Dibromoethane	9.67	107	49782	19.775	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	149656	98.645	ug/l	99
56) Bromoform	10.85	173	34124	18.315	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	311495	100.864	ug/l	100
59) 2-Hexanone	9.49	43	242914	102.791	ug/l	99
61) Tetrachloroethene	9.34	164	50676	20.989	ug/l	96
62) Toluene	8.78	91	196129	20.189	ug/l	99
64) Chlorobenzene	10.14	112	126950	20.397	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	45476	20.104	ug/l	98
66) Ethyl Benzene	10.25	91	218672	19.995	ug/l	98
67) m/p-Xylenes	10.36	106	168702	40.320	ug/l	98
68) o-Xylene	10.69	106	81609	19.906	ug/l	98
69) Styrene	10.71	104	138646	20.119	ug/l	100
70) Isopropylbenzene	11.02	105	223492	20.471	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	72839	20.692	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	61013m	20.765	ug/l	
73) Bromobenzene	11.25	156	60024	20.378	ug/l	100
74) n-propylbenzene	11.36	91	251402	20.461	ug/l	100
75) 2-Chlorotoluene	11.42	91	148999	20.361	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	186108	20.140	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	19510	20.125	ug/l	95
78) 4-Chlorotoluene	11.51	91	171558	20.413	ug/l	100
79) tert-butylbenzene	11.77	119	184111	20.541	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	187817	20.183	ug/l	99
81) sec-Butylbenzene	11.94	105	221350	20.950	ug/l	100
82) p-Isopropyltoluene	12.06	119	201839	20.587	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	104737	20.142	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	105133	20.342	ug/l	100
85) n-Butylbenzene	12.38	91	169162	20.262	ug/l	99
86) Hexachloroethane	12.60	117	29455	19.049	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	106901	20.998	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15016	19.376	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	71263	20.294	ug/l	99
90) Hexachlorobutadiene	13.78	225	36131	21.281	ug/l	98
91) Naphthalene	13.83	128	219652	20.500	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	74371	21.130	ug/l	99

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

