

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040219\
 Data File : VX008603.D
 Acq On : 02 Apr 2019 20:11
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/3/2019 11:33:08 AM

Quant Time: Apr 03 04:06:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	32288	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	188062	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	168355	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	81497	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	11.13	95	85574	29.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.23%
63) Toluene-d8	8.71	98	236345	29.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	40141	18.181	ug/l 99
3) Chloromethane	1.32	50	57637	19.925	ug/l 94
4) Vinyl Chloride	1.40	62	52867	18.131	ug/l 99
5) Bromomethane	1.64	94	27552	18.237	ug/l 99
6) Chloroethane	1.72	64	32718	17.144	ug/l 96
7) Trichlorofluoromethane	1.93	101	60343	18.645	ug/l 99
8) Diethyl Ether	2.18	74	28766	18.848	ug/l 82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	39117	19.409	ug/l 92
10) 1,1-Dichloroethene	2.37	96	40341	19.730	ug/l 84
11) Methyl Iodide	2.51	142	30032	14.185	ug/l 95
12) Methyl Acetate	3.20	43	34304m	20.700	ug/l
13) Acrolein	2.29	56	47903	100.760	ug/l 98
14) Acrylonitrile	3.14	53	162558	106.099	ug/l 99
15) Acetone	2.44	58	44019	93.168	ug/l 91
16) Carbon Disulfide	2.57	76	119784	18.832	ug/l 99
17) Allyl chloride	2.73	41	92240	20.073	ug/l 89
18) Methylene Chloride	2.85	84	50331	20.592	ug/l 87
19) trans-1,2-Dichloroethene	3.17	96	42509	19.459	ug/l 88
20) Diisopropyl ether	3.85	45	182694	20.426	ug/l # 86
21) 1,1-Dichloroethane	3.70	63	91216	20.318	ug/l 95
22) cis-1,2-Dichloroethene	4.60	96	50122	19.856	ug/l # 81
23) tert-Butyl Alcohol	3.04	59	66675	107.769	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	151443	20.153	ug/l 98
25) Chloroform	5.21	83	83048	20.422	ug/l 97
26) Cyclohexane	5.58	56	84778	19.438	ug/l # 83
29) 1,1-Dichloropropene	5.80	75	60952	19.265	ug/l 94
30) 2-Butanone	4.67	43	239303	102.858	ug/l 94
31) 2,2-Dichloropropane	4.58	77	60370	19.105	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	64915	19.758	ug/l # 95
33) Carbon Tetrachloride	5.79	117	53466	19.450	ug/l 99
34) Benzene	6.14	78	192983	19.954	ug/l # 95
35) Methacrylonitrile	5.04	41	49830	21.061	ug/l 90
36) 1,2-Dichloroethane	6.19	62	70660	20.493	ug/l 97
37) Trichloroethene	7.21	130	43601	19.604	ug/l 81
38) Methylcyclohexane	7.46	83	76365	19.155	ug/l 89
39) 1,2-Dichloropropane	7.51	63	55214	20.128	ug/l 100
40) Dibromomethane	7.66	93	31460	19.798	ug/l 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	61936	19.823	ug/l	99
42) Vinyl Acetate	3.81	43	816522	103.530	ug/l #	93
43) Ethyl Acetate	4.84	43	88519	21.139	ug/l #	83
44) Isopropyl Acetate	6.45	43	138240	20.417	ug/l	98
45) 1,4-Dioxane	7.74	88	28760	426.678	ug/l #	84
46) Methyl methacrylate	7.77	41	70577	20.523	ug/l	87
47) n-amyl Acetate	10.90	43	124925	20.311	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	68124	19.303	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	77748	19.696	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	47521	20.141	ug/l	98
51) Ethyl methacrylate	9.18	69	86483	19.697	ug/l	89
52) 1,3-Dichloropropane	9.37	76	84156	20.048	ug/l	100
53) Dibromochloromethane	9.58	129	44342	19.098	ug/l	99
54) 1,2-Dibromoethane	9.67	107	48637	19.996	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	222825	100.594	ug/l	95
56) Bromoform	10.85	173	31824	18.807	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	468074	105.387	ug/l #	95
59) 2-Hexanone	9.49	43	360973	102.871	ug/l	97
61) Tetrachloroethene	9.34	164	37963	20.615	ug/l	98
62) Toluene	8.79	91	203776	19.992	ug/l	100
64) Chlorobenzene	10.13	112	117960	19.750	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	41238	19.583	ug/l	97
66) Ethyl Benzene	10.25	91	222339	19.652	ug/l	95
67) m/p-Xylenes	10.36	106	161002	39.015	ug/l	91
68) o-Xylene	10.69	106	79217	19.617	ug/l	92
69) Styrene	10.71	104	135510	19.285	ug/l	96
70) Isopropylbenzene	11.02	105	210867	19.796	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	80485	20.225	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	68894m	20.481	ug/l	
73) Bromobenzene	11.26	156	49475	19.522	ug/l	78
74) n-propylbenzene	11.36	91	240333	18.938	ug/l	95
75) 2-Chlorotoluene	11.42	91	146564	19.413	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	173828	19.087	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	24294	18.829	ug/l	94
78) 4-Chlorotoluene	11.51	91	164101	18.886	ug/l	91
79) tert-butylbenzene	12.06	119	177792	19.103	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	174261	19.190	ug/l	95
81) sec-Butylbenzene	11.94	105	199785	19.200	ug/l	96
82) p-Isopropyltoluene	12.06	119	177792	19.103	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	86211	19.161	ug/l	94
84) 1,4-Dichlorobenzene	12.10	146	86780	19.301	ug/l	96
85) n-Butylbenzene	12.38	91	161409	18.253	ug/l	97
86) Hexachloroethane	12.60	117	28511	18.335	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	88873	19.604	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18041	20.454	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	61632	19.708	ug/l	99
90) Hexachlorobutadiene	13.78	225	29578	19.633	ug/l	98
91) Naphthalene	13.83	128	220055	20.539	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	64266	20.401	ug/l	99

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

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