

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008505.D
 Acq On : 27 Mar 2019 23:59
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:35:20 AM

Quant Time: Mar 28 04:20:20 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	5.01	128	34967	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	200890	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	178522	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	87549	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	11.13	95	91370	29.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.93%
63) Toluene-d8	8.71	98	255908	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	41777	17.472	ug/l 99
3) Chloromethane	1.32	50	56665	18.088	ug/l 97
4) Vinyl Chloride	1.40	62	57040	18.064	ug/l 98
5) Bromomethane	1.64	94	25185	15.393	ug/l 95
6) Chloroethane	1.73	64	35270	17.066	ug/l 98
7) Trichlorofluoromethane	1.93	101	63290	18.058	ug/l 98
8) Diethyl Ether	2.18	74	30348	18.361	ug/l 78
9) 1,1,2-Trichlorotrifluoroet	2.39	101	38036	17.426	ug/l 93
10) 1,1-Dichloroethene	2.37	96	41110	18.566	ug/l 83
11) Methyl Iodide	2.51	142	38698	16.877	ug/l 94
12) Methyl Acetate	3.19	43	33368	18.593	ug/l 90
13) Acrolein	2.29	56	26612	51.687	ug/l 97
14) Acrylonitrile	3.14	53	155584	93.767	ug/l 100
15) Acetone	2.44	58	40705	79.553	ug/l 95
16) Carbon Disulfide	2.57	76	121510	17.640	ug/l 98
17) Allyl chloride	2.73	41	88138	17.710	ug/l 89
18) Methylene Chloride	2.85	84	48998	18.511	ug/l # 84
19) trans-1,2-Dichloroethene	3.17	96	43489	18.383	ug/l 86
20) Diisopropyl ether	3.85	45	180470	18.632	ug/l # 89
21) 1,1-Dichloroethane	3.70	63	91098	18.737	ug/l 96
22) cis-1,2-Dichloroethene	4.60	96	50562	18.495	ug/l # 84
23) tert-Butyl Alcohol	3.04	59	55794	83.272	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	149784	18.406	ug/l 98
25) Chloroform	5.21	83	81643	18.538	ug/l 97
26) Cyclohexane	5.58	56	85847	18.175	ug/l # 83
29) 1,1-Dichloropropene	5.80	75	62275	18.426	ug/l 94
30) 2-Butanone	4.67	43	222691	89.605	ug/l 95
31) 2,2-Dichloropropane	4.58	77	51243	15.181	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	64801	18.464	ug/l # 95
33) Carbon Tetrachloride	5.79	117	52562	17.900	ug/l 99
34) Benzene	6.14	78	196185	18.990	ug/l # 96
35) Methacrylonitrile	5.04	41	47500	18.794	ug/l 90
36) 1,2-Dichloroethane	6.19	62	70274	19.079	ug/l 96
37) Trichloroethene	7.21	130	44120	18.570	ug/l 81
38) Methylcyclohexane	7.46	83	74750	17.552	ug/l 89
39) 1,2-Dichloropropane	7.51	63	54514	18.604	ug/l 99
40) Dibromomethane	7.66	93	31872	18.777	ug/l 89

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

41) Bromodichloromethane	7.90	83	61833	18.526	ug/l	100
42) Vinyl Acetate	3.81	43	791034	93.894	ug/l #	94
43) Ethyl Acetate	4.83	43	86294	19.292	ug/l #	82
44) Isopropyl Acetate	6.45	43	133709	18.486	ug/l	99
45) 1,4-Dioxane	7.74	88	22865	317.560	ug/l #	83
46) Methyl methacrylate	7.77	41	68100	18.538	ug/l	87
47) n-amyl Acetate	10.90	43	119704	18.220	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	63504	16.845	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	73277	17.378	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	46051	18.271	ug/l	98
51) Ethyl methacrylate	9.18	69	85463	18.221	ug/l	92
52) 1,3-Dichloropropane	9.37	76	84619	18.871	ug/l	100
53) Dibromochloromethane	9.58	129	43816	17.666	ug/l	100
54) 1,2-Dibromoethane	9.67	107	48432	18.641	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	216474	91.486	ug/l	95
56) Bromoform	10.85	173	31069	17.188	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	438619	93.131	ug/l	95
59) 2-Hexanone	9.49	43	333707	89.685	ug/l	97
61) Tetrachloroethene	9.34	164	36676	18.782	ug/l	96
62) Toluene	8.78	91	201538	18.646	ug/l	99
64) Chlorobenzene	10.13	112	117793	18.599	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	40814	18.278	ug/l	98
66) Ethyl Benzene	10.25	91	222343	18.533	ug/l	95
67) m/p-Xylenes	10.36	106	160834	36.755	ug/l	91
68) o-Xylene	10.69	106	78294	18.284	ug/l	92
69) Styrene	10.71	104	136078	18.263	ug/l	96
70) Isopropylbenzene	11.02	105	206724	18.301	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	78031	18.492	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	65932m	18.485	ug/l	
73) Bromobenzene	11.26	156	49171	18.297	ug/l	78
74) n-propylbenzene	11.36	91	245429	18.239	ug/l	94
75) 2-Chlorotoluene	11.42	91	147057	18.369	ug/l	89
76) 1,3,5-Trimethylbenzene	11.51	105	174806	18.101	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	20602	15.058	ug/l	97
78) 4-Chlorotoluene	11.51	91	164696	17.875	ug/l	91
79) tert-butylbenzene	12.06	119	177427	17.978	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	175666	18.243	ug/l	95
81) sec-Butylbenzene	11.94	105	199712	18.100	ug/l	96
82) p-Isopropyltoluene	12.06	119	177427	17.978	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	86033	18.033	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	85716	17.978	ug/l	96
85) n-Butylbenzene	12.38	91	162261	17.304	ug/l	97
86) Hexachloroethane	12.60	117	28292	17.158	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	86147	17.920	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	16029	17.138	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.65	180	59335	17.893	ug/l	99
90) Hexachlorobutadiene	13.78	225	28335	17.737	ug/l	99
91) Naphthalene	13.83	128	208858	18.384	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	60861	18.220	ug/l	99

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

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