

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010981.D
 Acq On : 19 Jul 2019 00:18
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVN071919

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:45 AM

Quant Time: Jul 19 03:43:13 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	40635	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	222144	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	201405	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	83146	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	11.13	95	98261	29.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.80%
63) Toluene-d8	8.71	98	268878	30.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	57942	21.568 ug/l	95
3) Chloromethane	1.32	50	49088	20.779 ug/l	98
4) Vinyl Chloride	1.41	62	49555	20.115 ug/l	96
5) Bromomethane	1.64	94	35220	25.971 ug/l	99
6) Chloroethane	1.73	64	29482	20.228 ug/l	94
7) Trichlorofluoromethane	1.93	101	82323	20.121 ug/l	98
8) Diethyl Ether	2.18	74	26964	20.069 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	46103	20.388 ug/l	99
10) 1,1-Dichloroethene	2.37	96	44910	19.762 ug/l	97
11) Methyl Iodide	2.51	142	49323	16.162 ug/l	97
12) Methyl Acetate	2.78	43	64404	20.178 ug/l	97
13) Acrolein	2.29	56	37371	97.650 ug/l	99
14) Acrylonitrile	3.14	53	124076	99.323 ug/l	99
15) Acetone	2.44	58	34180	98.258 ug/l	97
16) Carbon Disulfide	2.57	76	123733	21.189 ug/l	99
17) Allyl chloride	2.73	41	64686	19.662 ug/l	98
18) Methylene Chloride	2.85	84	50653	20.017 ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	48574	20.233 ug/l	97
20) Diisopropyl ether	3.85	45	137573	19.808 ug/l	97
21) 1,1-Dichloroethane	3.70	63	80565	20.157 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	55127	19.966 ug/l	98
23) tert-Butyl Alcohol	3.04	59	65594	100.568 ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	147325	20.195 ug/l	99
25) Chloroform	5.21	83	86684	19.801 ug/l	99
26) Cyclohexane	5.58	56	74170	20.279 ug/l	# 98
29) 1,1-Dichloropropene	5.80	75	63540	20.339 ug/l	99
30) 2-Butanone	4.67	43	168082	99.674 ug/l	99
31) 2,2-Dichloropropane	4.59	77	53137	19.486 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	76992	20.437 ug/l	99
33) Carbon Tetrachloride	5.79	117	66469	20.293 ug/l	99
34) Benzene	6.15	78	190315	20.309 ug/l	99
35) Methacrylonitrile	5.04	41	35658	20.312 ug/l	96
36) 1,2-Dichloroethane	6.20	62	69167	20.642 ug/l	98
37) Trichloroethene	7.21	130	55890	20.372 ug/l	98
38) Methylcyclohexane	7.46	83	80250	20.354 ug/l	99
39) 1,2-Dichloropropane	7.51	63	47054	20.088 ug/l	97
40) Dibromomethane	7.66	93	35401	20.549 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	62597	19.963	ug/l	97
42) Vinyl Acetate	3.81	43	554593	99.822	ug/l	100
43) Ethyl Acetate	4.84	43	64458	19.913	ug/l	98
44) Isopropyl Acetate	6.44	43	103835	19.694	ug/l	99
45) 1,4-Dioxane	7.74	88	27953	407.339	ug/l	98
46) Methyl methacrylate	7.77	41	50736	19.826	ug/l	99
47) n-amyl Acetate	10.90	43	92684	19.601	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	64400	19.487	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	72059	19.981	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	51247	20.325	ug/l	97
51) Ethyl methacrylate	9.18	69	76111	19.519	ug/l	97
52) 1,3-Dichloropropane	9.37	76	80004	19.746	ug/l	98
53) Dibromochloromethane	9.58	129	52376	19.235	ug/l	98
54) 1,2-Dibromoethane	9.67	107	55860	20.387	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	159844	96.799	ug/l	99
56) Bromoform	10.85	173	37652	18.566	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	338178	99.424	ug/l	99
59) 2-Hexanone	9.49	43	260795	100.199	ug/l	99
61) Tetrachloroethene	9.34	164	56118	21.103	ug/l	96
62) Toluene	8.78	91	216383	20.224	ug/l	99
64) Chlorobenzene	10.13	112	136932	19.975	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.22	131	50150	20.129	ug/l	98
66) Ethyl Benzene	10.25	91	240988	20.008	ug/l	99
67) m/p-Xylenes	10.36	106	186618	40.496	ug/l	96
68) o-Xylene	10.69	106	90371	20.014	ug/l	98
69) Styrene	10.71	104	150667	19.851	ug/l	99
70) Isopropylbenzene	11.02	105	244369	20.323	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	77746	20.053	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	66164m	20.445	ug/l	
73) Bromobenzene	11.26	156	66191	20.403	ug/l	99
74) n-propylbenzene	11.36	91	271563	20.067	ug/l	99
75) 2-Chlorotoluene	11.42	91	162041	20.105	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	204857	20.128	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	19154	17.939	ug/l	99
78) 4-Chlorotoluene	11.51	91	187726	20.281	ug/l	99
79) tert-butylbenzene	11.77	119	201024	20.363	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	206442	20.143	ug/l	99
81) sec-Butylbenzene	11.94	105	237727	20.429	ug/l	100
82) p-Isopropyltoluene	12.06	119	218257	20.212	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	115238	20.121	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	116142	20.403	ug/l	100
85) n-Butylbenzene	12.38	91	183172	19.921	ug/l	98
86) Hexachloroethane	12.59	117	32163	18.886	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	114035	20.337	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17297	20.265	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	80224	20.742	ug/l	98
90) Hexachlorobutadiene	13.78	225	36912	19.739	ug/l	97
91) Naphthalene	13.83	128	246347	20.875	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	81611	21.053	ug/l	98

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

