

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055252.D
 Acq On : 25 Apr 2019 18:50
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMdadoda
 4/26/2019 10:52:46 AM

Quant Time: Apr 26 04:56:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 04:33:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	68702	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	376930	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	330045	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	164280	31.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.50%
60) 4-Bromofluorobenzene	12.40	95	154988	30.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.87%
63) Toluene-d8	10.09	98	472397	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	182876	46.376 ug/l	97
3) Chloromethane	2.06	50	257482	47.726 ug/l	94
4) Vinyl Chloride	2.19	62	210925	45.560 ug/l	99
5) Bromomethane	2.55	94	112767	42.195 ug/l	96
6) Chloroethane	2.69	64	113965	44.035 ug/l	97
7) Trichlorofluoromethane	3.01	101	310495	51.391 ug/l	94
8) Diethyl Ether	3.41	74	126797	62.195 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	198154	57.970 ug/l	98
10) 1,1-Dichloroethene	3.74	96	184849	58.299 ug/l	99
11) Methyl Iodide	3.95	142	299488	61.763 ug/l	98
12) Methyl Acetate	4.33	43	273402	66.497 ug/l	93
13) Acrolein	3.61	56	56198	181.506 ug/l	96
14) Acrylonitrile	4.99	53	487560	298.243 ug/l	100
15) Acetone	3.82	58	114137	292.685 ug/l	97
16) Carbon Disulfide	4.05	76	490794	48.022 ug/l	98
17) Allyl chloride	4.32	41	406918	53.906 ug/l	99
18) Methylene Chloride	4.55	84	226432	49.734 ug/l	94
19) trans-1,2-Dichloroethene	5.04	96	199177	49.894 ug/l	94
20) Diisopropyl ether	5.95	45	827582	53.197 ug/l	97
21) 1,1-Dichloroethane	5.85	63	421581	51.291 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	236940	51.336 ug/l	96
23) tert-Butyl Alcohol	4.80	59	93554	341.685 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	610522	57.380 ug/l	100
25) Chloroform	7.37	83	397405	50.726 ug/l	97
26) Cyclohexane	7.65	56	366515	48.963 ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	297465	50.269 ug/l	99
30) 2-Butanone	6.84	43	608068	295.130 ug/l	100
31) 2,2-Dichloropropane	6.83	77	279946	50.758 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	327822	51.636 ug/l	99
33) Carbon Tetrachloride	7.77	117	272718	50.120 ug/l	99
34) Benzene	8.04	78	880142	49.917 ug/l	# 91
35) Methacrylonitrile	7.17	41	141042	56.819 ug/l	97
36) 1,2-Dichloroethane	8.13	62	314648	51.728 ug/l	100
37) Trichloroethene	8.84	130	222167	49.724 ug/l	95
38) Methylcyclohexane	9.08	83	316086	46.910 ug/l	97
39) 1,2-Dichloropropane	9.12	63	254783	51.794 ug/l	100
40) Dibromomethane	9.21	93	144887	51.816 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	298708	52.091	ug/l	97
42) Vinyl Acetate	5.90	43	2911805	282.083	ug/l	100
43) Ethyl Acetate	6.93	43	244275	56.638	ug/l	95
44) Isopropyl Acetate	8.17	43	450387	60.720	ug/l #	77
45) 1,4-Dioxane	9.20	88	46478	1159.664	ug/l	95
46) Methyl methacrylate	9.20	41	218341	58.264	ug/l	99
47) n-amyl Acetate	12.07	43	338009	63.580	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	301380	55.916	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	345673	52.909	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	201863	53.012	ug/l	97
51) Ethyl methacrylate	10.43	69	272890	58.475	ug/l	97
52) 1,3-Dichloropropane	10.71	76	353768	53.148	ug/l	99
53) Dibromochloromethane	10.90	129	207876	53.004	ug/l	99
54) 1,2-Dibromoethane	11.01	107	197273	54.754	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	424757	235.896	ug/l	99
56) Bromoform	12.13	173	136752	54.464	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	1296467	313.380	ug/l	100
59) 2-Hexanone	10.75	43	818956	313.689	ug/l	99
61) Tetrachloroethene	10.63	164	209606	48.378	ug/l	97
62) Toluene	10.16	91	924076	50.267	ug/l	97
64) Chlorobenzene	11.43	112	556486	50.434	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	204888	51.485	ug/l	99
66) Ethyl Benzene	11.51	91	986757	50.235	ug/l	99
67) m/p-Xylenes	11.62	106	737615	101.224	ug/l	99
68) o-Xylene	11.95	106	366848	50.568	ug/l	96
69) Styrene	11.96	104	578380	51.741	ug/l	99
70) Isopropylbenzene	12.25	105	967669	50.245	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	263148	57.429	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	216717m	57.350	ug/l	
73) Bromobenzene	12.53	156	230939	50.800	ug/l	100
74) n-propylbenzene	12.59	91	1093232	50.958	ug/l	100
75) 2-Chlorotoluene	12.67	91	659537	50.716	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	796347	51.278	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	61219	62.742	ug/l	97
78) 4-Chlorotoluene	12.77	91	641378	51.704	ug/l	99
79) tert-butylbenzene	12.99	119	683665	50.754	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	772004	50.393	ug/l	99
81) sec-Butylbenzene	13.17	105	908780	50.736	ug/l	99
82) p-Isopropyltoluene	13.29	119	759997	50.567	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	386671	51.326	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	366811	51.220	ug/l	99
85) n-Butylbenzene	13.61	91	601194	50.795	ug/l	99
86) Hexachloroethane	13.87	117	127282	52.088	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	384408	51.804	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	38446	62.398	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	152993	47.227	ug/l	96
90) Hexachlorobutadiene	15.01	225	127213	52.895	ug/l	99
91) Naphthalene	15.13	128	348476	50.407	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	163508	50.139	ug/l	100

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

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