

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055880.D
 Acq On : 29 May 2019 16:13
 Operator : JC/SP
 Sample : VN0529WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0529WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/30/2019 9:35:18 AM

Quant Time: May 30 09:12:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53105	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	283956	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	247332	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	103671	29.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.57%
60) 4-Bromofluorobenzene	12.40	95	111674	29.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.73%
63) Toluene-d8	10.09	98	343554	30.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	42845	18.401	ug/l 97
3) Chloromethane	2.06	50	62598	18.901	ug/l 99
4) Vinyl Chloride	2.18	62	66978	19.815	ug/l 100
5) Bromomethane	2.53	94	45168	22.823	ug/l 98
6) Chloroethane	2.68	64	41753	21.144	ug/l 95
7) Trichlorofluoromethane	3.00	101	87609	20.659	ug/l 99
8) Diethyl Ether	3.40	74	39714	21.303	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	52872	19.732	ug/l 98
10) 1,1-Dichloroethene	3.72	96	55714	19.876	ug/l 93
11) Methyl Iodide	3.94	142	80242	20.067	ug/l 99
12) Methyl Acetate	4.33	43	69909	20.392	ug/l 99
13) Acrolein	3.60	56	38630	81.097	ug/l 100
14) Acrylonitrile	4.99	53	155496	99.488	ug/l 99
15) Acetone	3.82	58	42877	88.333	ug/l 95
16) Carbon Disulfide	4.04	76	137649	17.128	ug/l 99
17) Allyl chloride	4.31	41	91519	18.128	ug/l 95
18) Methylene Chloride	4.54	84	65778	20.490	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	59666	19.787	ug/l 97
20) Diisopropyl ether	5.95	45	191191	19.522	ug/l 99
21) 1,1-Dichloroethane	5.84	63	108833	19.663	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	70401	20.019	ug/l 95
23) tert-Butyl Alcohol	4.81	59	63227	92.112	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	186375	19.596	ug/l 98
25) Chloroform	7.37	83	108384	19.826	ug/l 100
26) Cyclohexane	7.65	56	96385	18.876	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	79986	20.121	ug/l 98
30) 2-Butanone	6.84	43	208759	98.529	ug/l 99
31) 2,2-Dichloropropane	6.82	77	74219	16.045	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	91890	19.503	ug/l 99
33) Carbon Tetrachloride	7.77	117	77638	18.420	ug/l 98
34) Benzene	8.04	78	255944	20.855	ug/l 100
35) Methacrylonitrile	7.17	41	38895	19.889	ug/l 99
36) 1,2-Dichloroethane	8.12	62	84621	21.099	ug/l 98
37) Trichloroethene	8.83	130	69625	20.333	ug/l 97
38) Methylcyclohexane	9.08	83	98882	19.634	ug/l 98
39) 1,2-Dichloropropane	9.12	63	66628	20.195	ug/l 98
40) Dibromomethane	9.21	93	43693	20.509	ug/l 96

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

41) Bromodichloromethane	9.40	83	82913	18.989	ug/l	98
42) Vinyl Acetate	5.90	43	801555	97.439	ug/l	100
43) Ethyl Acetate	6.93	43	74997	18.008	ug/l #	100
44) Isopropyl Acetate	8.17	43	133480	19.355	ug/l #	86
45) 1,4-Dioxane	9.20	88	27688	426.760	ug/l	99
46) Methyl methacrylate	9.20	41	66022	20.519	ug/l	98
47) n-amyl Acetate	12.07	43	104853	18.382	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	82959	17.212	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	95495	18.102	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	63597	20.506	ug/l	97
51) Ethyl methacrylate	10.43	69	96626	19.329	ug/l	99
52) 1,3-Dichloropropane	10.71	76	104793	20.499	ug/l	100
53) Dibromochloromethane	10.90	129	64847	17.699	ug/l	100
54) 1,2-Dibromoethane	11.00	107	64830	20.200	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	168879	86.825	ug/l	99
56) Bromoform	12.13	173	46363	15.427	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	422844	103.272	ug/l	99
59) 2-Hexanone	10.75	43	289523	98.908	ug/l	100
61) Tetrachloroethene	10.63	164	71511	21.359	ug/l	98
62) Toluene	10.16	91	280571	21.095	ug/l	99
64) Chlorobenzene	11.43	112	168000	20.823	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	62137	19.115	ug/l	98
66) Ethyl Benzene	11.51	91	298228	20.522	ug/l	100
67) m/p-Xylenes	11.62	106	227573	41.223	ug/l	99
68) o-Xylene	11.95	106	111546	20.419	ug/l	99
69) Styrene	11.96	104	179377	19.902	ug/l	99
70) Isopropylbenzene	12.25	105	295258	20.657	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	89539	20.355	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	74363m	19.642	ug/l	
73) Bromobenzene	12.53	156	75133	19.869	ug/l	99
74) n-propylbenzene	12.59	91	309403	20.071	ug/l	100
75) 2-Chlorotoluene	12.67	91	191498	20.336	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	240158	20.327	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	21732	14.451	ug/l	85
78) 4-Chlorotoluene	12.77	91	175153	19.626	ug/l	99
79) tert-butylbenzene	12.99	119	213894	20.593	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	232426	19.817	ug/l	100
81) sec-Butylbenzene	13.17	105	271751	20.592	ug/l	99
82) p-Isopropyltoluene	13.29	119	240017	19.762	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	113076	19.076	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	103657	18.362	ug/l	99
85) n-Butylbenzene	13.61	91	171929	18.196	ug/l	99
86) Hexachloroethane	13.87	117	39334	16.466	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	116484	19.515	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13969	16.755	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	47660	14.792	ug/l	98
90) Hexachlorobutadiene	15.01	225	42921	17.854	ug/l	97
91) Naphthalene	15.13	128	138490	15.732	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	55823	16.578	ug/l	98

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

