

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058003.D
 Acq On : 13 Sep 2019 9:12
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 1:48:28 PM

Quant Time: Sep 14 01:27:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	76981	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	447542	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	400476	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	206162	30.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.93%
60) 4-Bromofluorobenzene	12.40	95	203550	29.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.00%
63) Toluene-d8	10.09	98	577113	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	96160	20.675 ug/l	97
3) Chloromethane	2.04	50	102292	17.638 ug/l	98
4) Vinyl Chloride	2.17	62	102155	17.216 ug/l	99
5) Bromomethane	2.55	94	61323	16.560 ug/l	95
6) Chloroethane	2.69	64	65576	17.783 ug/l	98
7) Trichlorofluoromethane	3.00	101	126005	18.381 ug/l	98
8) Diethyl Ether	3.39	74	54614	19.748 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	86978	20.319 ug/l	99
10) 1,1-Dichloroethene	3.72	96	78704	19.335 ug/l	97
11) Methyl Iodide	3.93	142	89064	16.354 ug/l	99
12) Methyl Acetate	4.30	43	107524	19.249 ug/l	97
13) Acrolein	3.60	56	1174m	3.873 ug/l	
14) Acrylonitrile	4.96	53	214548	94.214 ug/l #	90
15) Acetone	3.79	58	70690	109.342 ug/l	97
16) Carbon Disulfide	4.03	76	162716	17.167 ug/l	100
17) Allyl chloride	4.30	41	143145m	19.191 ug/l	
18) Methylene Chloride	4.53	84	99542	19.406 ug/l	98
19) trans-1,2-Dichloroethene	5.01	96	90707	19.994 ug/l	97
20) Diisopropyl ether	5.92	45	342601	19.647 ug/l	99
21) 1,1-Dichloroethane	5.82	63	192932	20.066 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	112358	20.213 ug/l	99
23) tert-Butyl Alcohol	4.75	59	65469m	88.064 ug/l	
24) Methyl tert-Butyl Ether	5.01	73	298915	19.159 ug/l #	100
25) Chloroform	7.35	83	196768	20.101 ug/l	97
26) Cyclohexane	7.64	56	157831	19.537 ug/l #	98
29) 1,1-Dichloropropene	7.78	75	141006	20.028 ug/l	99
30) 2-Butanone	6.81	43	336576	106.025 ug/l	100
31) 2,2-Dichloropropane	6.80	77	144062	19.381 ug/l	100
32) 1,1,1-Trichloroethane	7.55	97	154974	19.578 ug/l	98
33) Carbon Tetrachloride	7.76	117	123573	19.136 ug/l	98
34) Benzene	8.03	78	418934	20.082 ug/l	97
35) Methacrylonitrile	7.15	41	50781m	17.247 ug/l	
36) 1,2-Dichloroethane	8.11	62	166146	20.524 ug/l	100
37) Trichloroethene	8.82	130	101842	20.100 ug/l	99
38) Methylcyclohexane	9.07	83	158493	19.770 ug/l	100
39) 1,2-Dichloropropane	9.11	63	118595	20.243 ug/l	97
40) Dibromomethane	9.20	93	73648	20.669 ug/l	99

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

41) Bromodichloromethane	9.39	83	140631	19.576	ug/l	93
42) Vinyl Acetate	5.87	43	1326178	103.943	ug/l	100
43) Ethyl Acetate	6.91	43	121911	18.823	ug/l	98
44) Isopropyl Acetate	8.15	43	239259	21.187	ug/l #	93
45) 1,4-Dioxane	9.19	88	32776	369.364	ug/l	98
46) Methyl methacrylate	9.19	41	103985	18.851	ug/l	99
47) n-amyl Acetate	12.07	43	185694	17.901	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	143173	18.721	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	164797	19.205	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	102557	19.843	ug/l	98
51) Ethyl methacrylate	10.43	69	145601	18.168	ug/l	96
52) 1,3-Dichloropropane	10.71	76	183671	20.320	ug/l	100
53) Dibromochloromethane	10.90	129	89633	17.560	ug/l	98
54) 1,2-Dibromoethane	11.00	107	97178	18.897	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	335260	88.039	ug/l	99
56) Bromoform	12.13	173	51803	16.382	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	647571	104.270	ug/l	99
59) 2-Hexanone	10.75	43	486672	104.425	ug/l	100
61) Tetrachloroethene	10.63	164	83517	20.511	ug/l	98
62) Toluene	10.15	91	456313	20.578	ug/l	100
64) Chlorobenzene	11.43	112	274815	19.978	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	93250	19.524	ug/l	99
66) Ethyl Benzene	11.51	91	506509	20.929	ug/l	100
67) m/p-Xylenes	11.62	106	370717	40.134	ug/l	99
68) o-Xylene	11.95	106	176459	19.500	ug/l	99
69) Styrene	11.97	104	303277	19.656	ug/l	99
70) Isopropylbenzene	12.25	105	495674	20.719	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	148544	19.867	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	121768m	18.349	ug/l	
73) Bromobenzene	12.53	156	111989	19.553	ug/l	98
74) n-propylbenzene	12.59	91	584239	21.375	ug/l	100
75) 2-Chlorotoluene	12.68	91	343768	20.192	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	421803	20.705	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	29949	15.212	ug/l	94
78) 4-Chlorotoluene	12.78	91	351604	20.247	ug/l	99
79) tert-butylbenzene	13.00	119	352086	19.811	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	419016	20.643	ug/l	99
81) sec-Butylbenzene	13.18	105	482736	20.472	ug/l	100
82) p-Isopropyltoluene	13.29	119	430051	20.365	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	210713	19.792	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	206765	19.727	ug/l	99
85) n-Butylbenzene	13.62	91	392396	19.938	ug/l	99
86) Hexachloroethane	13.88	117	57442	17.077	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	205748	19.909	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	22126	16.807	ug/l	96
89) 1,2,4-Trichlorobenzene	14.92	180	120904	19.152	ug/l	98
90) Hexachlorobutadiene	15.01	225	55778	19.239	ug/l	100
91) Naphthalene	15.13	128	315598	18.169	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	116543	19.358	ug/l	99

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

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