

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092019\
 Data File : VN058241.D
 Acq On : 20 Sep 2019 11:42
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/23/2019 3:29:47 PM

Quant Time: Sep 23 04:08:02 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	73604	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	433493	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	392368	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	202342	31.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.60%
60) 4-Bromofluorobenzene	12.40	95	198576	29.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.60%
63) Toluene-d8	10.09	98	559754	29.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	91374	20.547 ug/l	98
3) Chloromethane	2.03	50	97792	17.636 ug/l	98
4) Vinyl Chloride	2.17	62	98087	17.289 ug/l	99
5) Bromomethane	2.55	94	48329	13.650 ug/l	89
6) Chloroethane	2.69	64	62823	17.818 ug/l	100
7) Trichlorofluoromethane	3.00	101	122666	18.715 ug/l	98
8) Diethyl Ether	3.39	74	55722	21.073 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	83978	20.518 ug/l	99
10) 1,1-Dichloroethene	3.72	96	76269	19.597 ug/l	92
11) Methyl Iodide	3.93	142	79204	15.211 ug/l	100
12) Methyl Acetate	4.30	43	114993	21.530 ug/l	97
13) Acrolein	3.59	56	24613	84.934 ug/l	87
14) Acrylonitrile	4.96	53	219575	100.846 ug/l #	88
15) Acetone	3.80	58	53945	87.270 ug/l	99
16) Carbon Disulfide	4.03	76	160531	17.713 ug/l	96
17) Allyl chloride	4.30	41	146236	20.505 ug/l	96
18) Methylene Chloride	4.53	84	95679	19.509 ug/l	97
19) trans-1,2-Dichloroethene	5.01	96	85414	19.691 ug/l	94
20) Diisopropyl ether	5.93	45	332911	19.968 ug/l	98
21) 1,1-Dichloroethane	5.82	63	188904	20.548 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	104989	19.754 ug/l	97
23) tert-Butyl Alcohol	4.76	59	67916m	95.547 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	297876	19.968 ug/l #	100
25) Chloroform	7.36	83	189891	20.289 ug/l	99
26) Cyclohexane	7.64	56	154413	19.991 ug/l #	96
29) 1,1-Dichloropropene	7.78	75	130457	19.130 ug/l	96
30) 2-Butanone	6.82	43	295213	96.009 ug/l	99
31) 2,2-Dichloropropane	6.80	77	143900	19.987 ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	151676	19.782 ug/l	99
33) Carbon Tetrachloride	7.76	117	122455	19.578 ug/l	99
34) Benzene	8.03	78	401348	19.862 ug/l	97
35) Methacrylonitrile	7.16	41	47272m	16.575 ug/l	
36) 1,2-Dichloroethane	8.11	62	156525	19.962 ug/l	100
37) Trichloroethene	8.82	130	97599	19.887 ug/l	97
38) Methylcyclohexane	9.07	83	152178	19.597 ug/l	99
39) 1,2-Dichloropropane	9.11	63	111354	19.623 ug/l	94
40) Dibromomethane	9.20	93	69377	20.101 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	137157	19.711	ug/l	95
42) Vinyl Acetate	5.87	43	1312419	106.199	ug/l	99
43) Ethyl Acetate	6.91	43	123148	19.630	ug/l #	78
44) Isopropyl Acetate	8.15	43	230918	21.111	ug/l #	93
45) 1,4-Dioxane	9.19	88	28682	333.703	ug/l	96
46) Methyl methacrylate	9.19	41	103623	19.394	ug/l	99
47) n-amyl Acetate	12.07	43	189658	18.875	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	139380	18.815	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	158734	19.098	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	99633	19.902	ug/l	96
51) Ethyl methacrylate	10.43	69	148512	19.132	ug/l	96
52) 1,3-Dichloropropane	10.71	76	173995	19.874	ug/l	100
53) Dibromochloromethane	10.90	129	91424	18.491	ug/l	99
54) 1,2-Dibromoethane	11.00	107	97185	19.511	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	377513	102.347	ug/l	99
56) Bromoform	12.13	173	54564	17.815	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	657924	108.126	ug/l	100
59) 2-Hexanone	10.75	43	461605	101.093	ug/l	100
61) Tetrachloroethene	10.63	164	81803	20.505	ug/l	97
62) Toluene	10.15	91	436085	20.072	ug/l	99
64) Chlorobenzene	11.43	112	266673	19.787	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	91383	19.528	ug/l	99
66) Ethyl Benzene	11.51	91	487671	20.567	ug/l	100
67) m/p-Xylenes	11.62	106	358148	39.574	ug/l	99
68) o-Xylene	11.95	106	173977	19.623	ug/l	100
69) Styrene	11.97	104	295912	19.575	ug/l	98
70) Isopropylbenzene	12.25	105	480228	20.488	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	144540	19.731	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	135361m	20.819	ug/l	
73) Bromobenzene	12.53	156	109645	19.539	ug/l	99
74) n-propylbenzene	12.59	91	558344	20.849	ug/l	100
75) 2-Chlorotoluene	12.68	91	333670	20.004	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	402554	20.169	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	33783	17.514	ug/l	92
78) 4-Chlorotoluene	12.78	91	332075	19.517	ug/l	99
79) tert-butylbenzene	13.00	119	348099	19.991	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	406361	20.433	ug/l	99
81) sec-Butylbenzene	13.18	105	472112	20.435	ug/l	99
82) p-Isopropyltoluene	13.29	119	413333	19.977	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	201921	19.359	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	201175	19.590	ug/l	99
85) n-Butylbenzene	13.62	91	376958	19.549	ug/l	99
86) Hexachloroethane	13.88	117	59383	18.019	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	202062	19.957	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	25008	19.389	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	125110	20.228	ug/l	98
90) Hexachlorobutadiene	15.01	225	61700	21.722	ug/l	99
91) Naphthalene	15.13	128	345173	20.283	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	123028	20.857	ug/l	97

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

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