

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056587.D
 Acq On : 3 Jul 2019 15:17
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:29 AM

Quant Time: Jul 03 22:34:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52266	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	289769	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	248634	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	108097	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	12.40	95	113891	29.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.37%
63) Toluene-d8	10.09	98	352127	30.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	53087	20.254 ug/l	99
3) Chloromethane	2.06	50	69680	18.317 ug/l	100
4) Vinyl Chloride	2.18	62	70430	19.671 ug/l	98
5) Bromomethane	2.54	94	43822m	22.940 ug/l	
6) Chloroethane	2.69	64	37957	19.144 ug/l	96
7) Trichlorofluoromethane	3.01	101	90323	19.654 ug/l	98
8) Diethyl Ether	3.41	74	37405	19.188 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.75	101	56870	19.530 ug/l	95
10) 1,1-Dichloroethene	3.73	96	54395	19.039 ug/l	91
11) Methyl Iodide	3.95	142	75867	18.570 ug/l	99
12) Methyl Acetate	4.32	43	71444	18.542 ug/l	94
13) Acrolein	3.60	56	30188	80.247 ug/l	99
14) Acrylonitrile	4.99	53	157198	92.919 ug/l	99
15) Acetone	3.81	58	41681	88.301 ug/l	92
16) Carbon Disulfide	4.05	76	128605	18.720 ug/l	99
17) Allyl chloride	4.32	41	92515	18.504 ug/l	96
18) Methylene Chloride	4.55	84	64845	19.197 ug/l	93
19) trans-1,2-Dichloroethene	5.04	96	59338	19.149 ug/l	90
20) Diisopropyl ether	5.95	45	200005	19.363 ug/l	98
21) 1,1-Dichloroethane	5.85	63	110367	18.941 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	70114	19.241 ug/l	95
23) tert-Butyl Alcohol	4.79	59	58825	92.953 ug/l	# 100
24) Methyl tert-Butyl Ether	5.04	73	180665	19.119 ug/l	99
25) Chloroform	7.37	83	109745	19.215 ug/l	98
26) Cyclohexane	7.65	56	104136	19.403 ug/l	# 95
29) 1,1-Dichloropropene	7.79	75	82683	19.323 ug/l	97
30) 2-Butanone	6.84	43	209640	88.376 ug/l	98
31) 2,2-Dichloropropane	6.82	77	69753	16.954 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	87207	19.118 ug/l	99
33) Carbon Tetrachloride	7.77	117	71916	18.597 ug/l	99
34) Benzene	8.04	78	257867	19.272 ug/l	100
35) Methacrylonitrile	7.17	41	36674	17.409 ug/l	97
36) 1,2-Dichloroethane	8.12	62	83167	19.124 ug/l	97
37) Trichloroethene	8.83	130	67689	19.397 ug/l	96
38) Methylcyclohexane	9.08	83	103107	19.228 ug/l	99
39) 1,2-Dichloropropane	9.12	63	68891	19.126 ug/l	95
40) Dibromomethane	9.21	93	42514	19.094 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	76849	18.623	ug/l	99
42) Vinyl Acetate	5.89	43	801135	94.849	ug/l	97
43) Ethyl Acetate	6.93	43	80676	17.581	ug/l	96
44) Isopropyl Acetate	8.16	43	130998	18.298	ug/l #	86
45) 1,4-Dioxane	9.20	88	27429	391.557	ug/l	93
46) Methyl methacrylate	9.20	41	64350	18.293	ug/l	98
47) n-amyl Acetate	12.07	43	106964	17.975	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	79697	18.020	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	94693	18.563	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	63436	19.340	ug/l	99
51) Ethyl methacrylate	10.43	69	95954	18.574	ug/l	97
52) 1,3-Dichloropropane	10.71	76	106673	19.139	ug/l	100
53) Dibromochloromethane	10.90	129	58494	18.195	ug/l	98
54) 1,2-Dibromoethane	11.00	107	64479	18.866	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	242473	92.112	ug/l	98
56) Bromoform	12.13	173	39735	17.010	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	425653	95.216	ug/l	97
59) 2-Hexanone	10.75	43	301815	90.984	ug/l	98
61) Tetrachloroethene	10.63	164	62650	20.076	ug/l	98
62) Toluene	10.15	91	272862	19.664	ug/l	100
64) Chlorobenzene	11.43	112	162656	19.456	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	58064	19.285	ug/l	100
66) Ethyl Benzene	11.51	91	289856	19.265	ug/l	99
67) m/p-Xylenes	11.62	106	219792	39.584	ug/l	95
68) o-Xylene	11.95	106	106869	19.462	ug/l	95
69) Styrene	11.96	104	176949	19.368	ug/l	98
70) Isopropylbenzene	12.25	105	282419	19.712	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	89591	18.914	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	77735m	19.515	ug/l	
73) Bromobenzene	12.53	156	70742	19.145	ug/l	91
74) n-propylbenzene	12.59	91	314705	19.361	ug/l	98
75) 2-Chlorotoluene	12.67	91	190996	19.650	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	242582	19.995	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	20599	16.145	ug/l	93
78) 4-Chlorotoluene	12.77	91	181533	19.204	ug/l	98
79) tert-butylbenzene	12.99	119	201113	19.402	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	235423	19.647	ug/l	98
81) sec-Butylbenzene	13.17	105	269022	19.571	ug/l	98
82) p-Isopropyltoluene	13.29	119	242553	19.626	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	119516	19.477	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	113292	19.139	ug/l	99
85) n-Butylbenzene	13.61	91	194322	18.710	ug/l	97
86) Hexachloroethane	13.87	117	34300	18.406	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	120278	19.302	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14355	16.913	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	61614	17.889	ug/l	97
90) Hexachlorobutadiene	15.01	225	41021	19.169	ug/l	99
91) Naphthalene	15.13	128	163003	16.864	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	64760	17.911	ug/l	99

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

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