

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
 Data File : VN064505.D
 Acq On : 9 Nov 2020 12:13
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 11/10/2020 1:10:31 PM

Quant Time: Nov 09 12:35:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 09 12:16:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	65889	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	362328	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	342402	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	183229	33.67	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	112.23%#
60) 4-Bromofluorobenzene	12.38	95	180669	31.02	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	103.40%
63) Toluene-d8	10.06	98	476346	30.71	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	231456	54.594 ug/l	97
3) Chloromethane	2.04	50	261458	58.288 ug/l	98
4) Vinyl Chloride	2.17	62	281616	60.418 ug/l	98
5) Bromomethane	2.53	94	185920	60.825 ug/l	94
6) Chloroethane	2.67	64	179540	64.835 ug/l	100
7) Trichlorofluoromethane	2.99	101	414810	55.315 ug/l	97
8) Diethyl Ether	3.37	74	147404	61.468 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.71	101	191290	51.376 ug/l	49
10) 1,1-Dichloroethene	3.69	96	185655	52.293 ug/l	98
11) Methyl Iodide	3.91	142	239192	51.010 ug/l	96
12) Methyl Acetate	4.29	43	235292	61.568 ug/l	96
13) Acrolein	3.57	56	111209	307.354 ug/l	98
14) Acrylonitrile	4.94	53	519944	305.821 ug/l	99
15) Acetone	3.78	58	174337	297.232 ug/l	98
16) Carbon Disulfide	4.00	76	548558	53.682 ug/l	98
17) Allyl chloride	4.27	41	355317	56.348 ug/l	98
18) Methylene Chloride	4.50	84	218137	52.883 ug/l	97
19) trans-1,2-Dichloroethene	4.99	96	209503	53.498 ug/l	98
20) Diisopropyl ether	5.91	45	770101	57.463 ug/l	97
21) 1,1-Dichloroethane	5.80	63	415545	54.944 ug/l	99
22) cis-1,2-Dichloroethene	6.78	96	240766	52.705 ug/l	95
23) tert-Butyl Alcohol	4.76	59	185498	291.571 ug/l #	100
24) Methyl tert-Butyl Ether	5.00	73	675127	53.653 ug/l #	72
25) Chloroform	7.33	83	441200	54.413 ug/l	95
26) Cyclohexane	7.61	56	327562	54.851 ug/l #	100
29) 1,1-Dichloropropene	7.75	75	321649	54.292 ug/l	98
30) 2-Butanone	6.79	43	834968	308.094 ug/l #	82
31) 2,2-Dichloropropane	6.78	77	385666	53.501 ug/l	99
32) 1,1,1-Trichloroethane	7.53	97	398025	52.227 ug/l	97
33) Carbon Tetrachloride	7.74	117	350753	51.149 ug/l	98
34) Benzene	8.00	78	928786	55.485 ug/l #	92
35) Methacrylonitrile	7.13	41	161821	61.286 ug/l	97
36) 1,2-Dichloroethane	8.09	62	379408	54.945 ug/l	99
37) Trichloroethene	8.80	130	233958	50.674 ug/l	99
38) Methylcyclohexane	9.05	83	289679	54.395 ug/l	99
39) 1,2-Dichloropropane	9.08	63	251344	57.768 ug/l	98
40) Dibromomethane	9.17	93	171614	55.281 ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	364425	55.373	ug/l	98
42) Vinyl Acetate	5.85	43	3328646	293.452	ug/l	100
43) Ethyl Acetate	6.89	43	329787	62.653	ug/l	97
44) Isopropyl Acetate	8.13	43	549865	59.735	ug/l	97
45) 1,4-Dioxane	9.17	88	82099	1248.472	ug/l	99
46) Methyl methacrylate	9.17	41	272725	59.959	ug/l	99
47) n-amyl Acetate	12.05	43	491788	62.667	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	391330	54.199	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	406741	54.486	ug/l	99
50) 1,1,2-Trichloroethane	10.53	97	233802	56.201	ug/l	97
51) Ethyl methacrylate	10.40	69	347414	58.256	ug/l	95
52) 1,3-Dichloropropane	10.68	76	398185	56.829	ug/l	99
53) Dibromochloromethane	10.87	129	267022	52.587	ug/l	100
54) 1,2-Dibromoethane	10.98	107	245170	55.632	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	901704	277.570	ug/l	99
56) Bromoform	12.10	173	176971	49.664	ug/l	97
58) 4-Methyl-2-Pentanone	9.95	43	1717436	309.493	ug/l	100
59) 2-Hexanone	10.72	43	1308310	317.704	ug/l	98
61) Tetrachloroethene	10.60	164	214741	47.056	ug/l	98
62) Toluene	10.13	91	1027007	53.197	ug/l	100
64) Chlorobenzene	11.41	112	609308	50.955	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	236809	51.084	ug/l	99
66) Ethyl Benzene	11.48	91	1137053	53.953	ug/l	100
67) m/p-Xylenes	11.59	106	837972	105.632	ug/l	98
68) o-Xylene	11.92	106	396135	52.074	ug/l	96
69) Styrene	11.94	104	697302	54.608	ug/l	99
70) Isopropylbenzene	12.22	105	1055496	53.524	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	333135	59.171	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	320877m	55.315	ug/l	
73) Bromobenzene	12.50	156	254544	50.396	ug/l	98
74) n-propylbenzene	12.57	91	1245230	56.857	ug/l	100
75) 2-Chlorotoluene	12.65	91	759063	54.794	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	890963	54.358	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	124529	60.354	ug/l	98
78) 4-Chlorotoluene	12.75	91	805061	55.956	ug/l	99
79) tert-butylbenzene	12.97	119	697446	54.129	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	915257	55.450	ug/l	99
81) sec-Butylbenzene	13.14	105	919716	55.502	ug/l	100
82) p-Isopropyltoluene	13.26	119	826895	54.605	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	453132	52.178	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	452465	52.001	ug/l	99
85) n-Butylbenzene	13.59	91	710202	58.492	ug/l	98
86) Hexachloroethane	13.85	117	161776	55.969	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	443497	53.155	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	75323	62.011	ug/l	98
89) 1,2,4-Trichlorobenzene	14.88	180	206448	51.415	ug/l	96
90) Hexachlorobutadiene	14.98	225	94030	44.018	ug/l	99
91) Naphthalene	15.10	128	706242	58.071	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	208254	51.562	ug/l	100

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

