

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042924\
 Data File : VN081903.D
 Acq On : 29 Apr 2024 10:07
 Operator : JC\MD
 Sample : VN0429WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0429WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/30/2024
 Supervised By : Mahesh Dadoda 04/30/2024

Quant Time: Apr 30 04:31:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	47960	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	296521	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	261212	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	119198	29.685	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.933%		
60) 4-Bromofluorobenzene	12.853	95	131648	30.284	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.933%		
63) Toluene-d8	10.565	98	370485	29.866	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	52802	19.395	ug/l	96
3) Chloromethane	2.359	50	59727	18.917	ug/l	94
4) Vinyl Chloride	2.518	62	55246	18.523	ug/l	100
5) Bromomethane	2.959	94	27966	17.969	ug/l	97
6) Chloroethane	3.130	64	30657	18.152	ug/l	97
7) Trichlorofluoromethane	3.500	101	84913	19.456	ug/l	89
8) Diethyl Ether	3.965	74	38952	18.437	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.377	101	54604	18.250	ug/l	81
10) 1,1-Dichloroethene	4.342	96	55409	18.930	ug/l	92
11) Methyl Iodide	4.589	142	47616	17.800	ug/l	85
12) Methyl Acetate	5.024	43	68599	18.716	ug/l #	79
13) Acrolein	4.177	56	68308	87.691	ug/l	99
14) Acrylonitrile	5.718	53	153845	91.970	ug/l	98
15) Acetone	4.436	58	36961m	98.605	ug/l	
16) Carbon Disulfide	4.712	76	149903	18.485	ug/l #	95
17) Allyl chloride	5.024	41	94964	18.479	ug/l	84
18) Methylene Chloride	5.283	84	63746	19.140	ug/l	90
19) trans-1,2-Dichloroethene	5.789	96	58359	19.154	ug/l	88
20) Diisopropyl ether	6.677	45	212077	18.652	ug/l #	95
21) 1,1-Dichloroethane	6.571	63	114904	19.085	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	71384	19.226	ug/l	96
23) tert-Butyl Alcohol	5.512	59	65053	94.413	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	197281	18.695	ug/l #	85
25) Chloroform	7.965	83	109104	18.836	ug/l	96
26) Cyclohexane	8.259	56	104727	20.115	ug/l #	92
29) 1,1-Dichloropropene	8.377	75	80931	18.333	ug/l	100
30) 2-Butanone	7.488	43	198301	87.145	ug/l #	93
31) 2,2-Dichloropropane	7.494	77	103636	22.909	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	91434	18.009	ug/l	94
33) Carbon Tetrachloride	8.365	117	76263	18.509	ug/l	90
34) Benzene	8.606	78	256340	18.202	ug/l #	93
35) Methacrylonitrile	7.782	41	47371	16.455	ug/l	92
36) 1,2-Dichloroethane	8.671	62	84938	17.966	ug/l	98
37) Trichloroethene	9.353	130	58754	17.033	ug/l	93
38) Methylcyclohexane	9.600	83	105026	19.694	ug/l	98
39) 1,2-Dichloropropane	9.624	63	65349	18.084	ug/l	98
40) Dibromomethane	9.706	93	42905	18.482	ug/l	90
41) Bromodichloromethane	9.888	83	89380	18.014	ug/l #	95
42) Vinyl Acetate	6.606	43	848398	87.595	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	86363	17.407	ug/l #	75
44) Isopropyl Acetate	8.688	43	154813	17.576	ug/l	89
45) 1,4-Dioxane	9.694	88	26204	370.960	ug/l #	96
46) Methyl methacrylate	9.682	41	72958	18.130	ug/l	82
47) n-amyl Acetate	12.494	43	139804m	17.598	ug/l	
48) t-1,3-Dichloropropene	10.835	75	100106	18.605	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	107301	18.861	ug/l #	85
50) 1,1,2-Trichloroethane	11.018	97	57256	18.179	ug/l	94
51) Ethyl methacrylate	10.876	69	104097	17.512	ug/l	76
52) 1,3-Dichloropropane	11.165	76	103672	17.917	ug/l	96
53) Dibromochloromethane	11.365	129	60571	17.676	ug/l	96
54) 1,2-Dibromoethane	11.470	107	56570	18.010	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	216252	72.753	ug/l	97
56) Bromoform	12.576	173	37900	18.173	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	452687	89.253	ug/l #	87
59) 2-Hexanone	11.194	43	352052	93.617	ug/l	89
61) Tetrachloroethene	11.106	164	54928	18.951	ug/l	98
62) Toluene	10.629	91	270289	18.390	ug/l	99
64) Chlorobenzene	11.894	112	166101	18.477	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	53730	18.262	ug/l	95
66) Ethyl Benzene	11.965	91	299676	18.602	ug/l	97
67) m/p-Xylenes	12.070	106	224504	37.586	ug/l	98
68) o-Xylene	12.400	106	108506	18.361	ug/l	100
69) Styrene	12.412	104	181532	18.299	ug/l	100
70) Isopropylbenzene	12.694	105	282996	18.855	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	76863	17.796	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	74544m	18.461	ug/l	
73) Bromobenzene	12.982	156	58271	18.137	ug/l	85
74) n-propylbenzene	13.035	91	334487	18.890	ug/l	99
75) 2-Chlorotoluene	13.123	91	205069	18.720	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	231469	19.053	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	35725	19.877	ug/l	85
78) 4-Chlorotoluene	13.223	91	200540	18.687	ug/l	100
79) tert-butylbenzene	13.441	119	197082	18.842	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	232283	19.035	ug/l	97
81) sec-Butylbenzene	13.617	105	281805	19.220	ug/l	100
82) p-Isopropyltoluene	13.729	119	226316	19.520	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	107635	18.606	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	109245	18.788	ug/l	99
85) n-Butylbenzene	14.059	91	208914	19.726	ug/l	98
86) Hexachloroethane	14.335	117	44976	19.455	ug/l	79
87) 1,2-Dichlorobenzene	14.106	146	107904	18.727	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	17560	18.118	ug/l	90
89) 1,2,4-Trichlorobenzene	15.847	180	61275	19.314	ug/l	99
90) Hexachlorobutadiene	15.506	225	22099	18.807	ug/l	97
91) Naphthalene	15.641	128	218642	18.129	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	61275	19.314	ug/l	99

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

