

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031924\
 Data File : VX040709.D
 Acq On : 19 Mar 2024 08:52
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Mar 20 04:30:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

03/20/2024
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.891	128	16751	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	91913	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	89229	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	49349	29.497	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.333%
60) 4-Bromofluorobenzene	11.079	95	48413	31.631	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	105.433%
63) Toluene-d8	8.647	98	117748	29.861	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.533%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21997	19.361	ug/l	98
3) Chloromethane	1.294	50	21725	18.663	ug/l	97
4) Vinyl Chloride	1.374	62	23930	19.021	ug/l	96
5) Bromomethane	1.611	94	18492	24.067	ug/l	98
6) Chloroethane	1.691	64	14713	19.906	ug/l	94
7) Trichlorofluoromethane	1.892	101	41737	21.790	ug/l	96
8) Diethyl Ether	2.130	74	11807	18.155	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	17764	16.931	ug/l	93
10) 1,1-Dichloroethene	2.319	96	15940	15.957	ug/l	91
11) Methyl Iodide	2.453	142	14550	12.043	ug/l	96
12) Methyl Acetate	2.697	43	31513	19.152	ug/l	95
13) Acrolein	2.233	56	16893	54.457	ug/l	95
14) Acrylonitrile	3.056	53	57264	88.380	ug/l	95
15) Acetone	2.373	58	22229	120.023	ug/l	73
16) Carbon Disulfide	2.514	76	47884	17.442	ug/l	97
17) Allyl chloride	2.666	41	35330	19.166	ug/l	94
18) Methylene Chloride	2.788	84	21926	19.225	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	21037	19.290	ug/l	95
20) Diisopropyl ether	3.757	45	71824	19.482	ug/l	94
21) 1,1-Dichloroethane	3.605	63	41558	19.589	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	24631	19.449	ug/l	92
23) tert-Butyl Alcohol	2.947	59	24544m	80.174	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	70594	19.149	ug/l	97
25) Chloroform	5.092	83	46063	19.838	ug/l	95
26) Cyclohexane	5.464	56	32515	18.991	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	32118	20.188	ug/l	96
30) 2-Butanone	4.544	43	100236	103.247	ug/l	98
31) 2,2-Dichloropropane	4.465	77	35243	20.524	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	39987	19.947	ug/l	98
33) Carbon Tetrachloride	5.672	117	33655	19.954	ug/l	95
34) Benzene	6.037	78	85550	19.919	ug/l	98
35) Methacrylonitrile	4.910	41	19147	19.211	ug/l	99
36) 1,2-Dichloroethane	6.086	62	39712	19.998	ug/l	95
37) Trichloroethene	7.123	130	23001	19.929	ug/l	96
38) Methylcyclohexane	7.379	83	34363	20.059	ug/l	95
39) 1,2-Dichloropropane	7.421	63	22642	20.706	ug/l	90
40) Dibromomethane	7.580	93	17317	20.158	ug/l	93
41) Bromodichloromethane	7.818	83	35671	20.872	ug/l	99
42) Vinyl Acetate	3.715	43	321918	96.308	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	31897	17.445	ug/l	97
44) Isopropyl Acetate	6.330	43	54660	18.728	ug/l	95
45) 1,4-Dioxane	7.653	88	10236	341.194	ug/l	98
46) Methyl methacrylate	7.690	41	27644	19.070	ug/l	96
47) n-amyl Acetate	10.841	43	45957	18.270	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	35995	19.927	ug/l	90
49) cis-1,3-Dichloropropene	8.366	75	37473	20.364	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	23071	20.218	ug/l	98
51) Ethyl methacrylate	9.110	69	35039	19.504	ug/l	95
52) 1,3-Dichloropropane	9.305	76	39539	20.306	ug/l	98
53) Dibromochloromethane	9.519	129	25424	19.545	ug/l	97
54) 1,2-Dibromoethane	9.604	107	24818	19.656	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	92983	101.636	ug/l	99
56) Bromoform	10.799	173	18758	20.330	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	184822	93.020	ug/l	99
59) 2-Hexanone	9.427	43	156761	97.677	ug/l	96
61) Tetrachloroethene	9.269	164	21560	20.357	ug/l	92
62) Toluene	8.714	91	96214	19.578	ug/l	99
64) Chlorobenzene	10.079	112	59585	19.838	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	22424	19.573	ug/l	98
66) Ethyl Benzene	10.189	91	111423	19.664	ug/l	98
67) m/p-Xylenes	10.299	106	82814	39.578	ug/l	96
68) o-Xylene	10.640	106	39144	19.433	ug/l	93
69) Styrene	10.652	104	66363	19.609	ug/l	96
70) Isopropylbenzene	10.957	105	109400	20.100	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.207	83	37251	19.523	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	33788m	19.680	ug/l	
73) Bromobenzene	11.195	156	25524	19.809	ug/l	98
74) n-propylbenzene	11.305	91	136535	20.311	ug/l	99
75) 2-Chlorotoluene	11.360	91	81108	20.332	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	94457	19.713	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10230	19.173	ug/l	77
78) 4-Chlorotoluene	11.451	91	96897	20.362	ug/l	96
79) tert-butylbenzene	11.713	119	87867	19.647	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	95474	20.223	ug/l	98
81) sec-Butylbenzene	11.890	105	116453	19.722	ug/l	99
82) p-Isopropyltoluene	12.006	119	94394	19.530	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	49931	19.915	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	51448	20.066	ug/l	99
85) n-Butylbenzene	12.329	91	89828	19.100	ug/l	97
86) Hexachloroethane	12.536	117	16380	19.422	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	47136	19.347	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9206	18.044	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	28457	17.347	ug/l	95
90) Hexachlorobutadiene	13.725	225	11614	17.509	ug/l	98
91) Naphthalene	13.774	128	84242	15.743	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	28825	17.821	ug/l	100

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

