

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042396.D
 Acq On : 19 Jul 2024 11:51
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX071924

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/19/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Jul 19 16:07:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	34491	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	201204	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	184154	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	72720	29.434	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.100%
60) 4-Bromofluorobenzene	11.079	95	86312	30.124	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.400%
63) Toluene-d8	8.647	98	236966	29.622	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.733%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	42887	20.744	ug/l	99
3) Chloromethane	1.295	50	45183	20.901	ug/l	100
4) Vinyl Chloride	1.374	62	44256	20.607	ug/l	100
5) Bromomethane	1.593	94	21111	19.582	ug/l	94
6) Chloroethane	1.666	64	20767	22.437	ug/l	95
7) Trichlorofluoromethane	1.874	101	57104	21.252	ug/l	99
8) Diethyl Ether	2.136	74	23991	21.289	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	44748	21.383	ug/l	99
10) 1,1-Dichloroethene	2.313	96	41213	20.493	ug/l	93
11) Methyl Iodide	2.441	142	43180	18.991	ug/l	99
12) Methyl Acetate	2.703	43	74020	22.395	ug/l	99
13) Acrolein	2.240	56	39060	94.074	ug/l	95
14) Acrylonitrile	3.069	53	131689	106.095	ug/l	97
15) Acetone	2.386	58	38967	105.542	ug/l	99
16) Carbon Disulfide	2.502	76	81132	20.408	ug/l	99
17) Allyl chloride	2.654	41	70015	21.881	ug/l	98
18) Methylene Chloride	2.782	84	48564	21.145	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	42518	20.931	ug/l	98
20) Diisopropyl ether	3.758	45	144322	21.404	ug/l	90
21) 1,1-Dichloroethane	3.605	63	79964	20.891	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	53446	21.010	ug/l	97
23) tert-Butyl Alcohol	2.989	59	54885	116.027	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	142079	21.167	ug/l	100
25) Chloroform	5.087	83	82276	20.798	ug/l	98
26) Cyclohexane	5.458	56	66317	20.920	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	54931	20.937	ug/l	97
30) 2-Butanone	4.562	43	182729	104.315	ug/l	99
31) 2,2-Dichloropropane	4.471	77	63378	21.012	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	69302	20.450	ug/l	99
33) Carbon Tetrachloride	5.666	117	60528	20.452	ug/l	97
34) Benzene	6.032	78	177790	20.637	ug/l	98
35) Methacrylonitrile	4.922	41	37292	21.573	ug/l	96
36) 1,2-Dichloroethane	6.080	62	58358	20.886	ug/l	98
37) Trichloroethene	7.123	130	48508	20.938	ug/l	100
38) Methylcyclohexane	7.379	83	70263	20.826	ug/l	98
39) 1,2-Dichloropropane	7.428	63	44108	20.828	ug/l	99
40) Dibromomethane	7.574	93	31574	20.655	ug/l	99
41) Bromodichloromethane	7.818	83	58523	20.412	ug/l	97
42) Vinyl Acetate	3.721	43	599237	105.735	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	60729	19.535	ug/l	98
44) Isopropyl Acetate	6.342	43	103422	21.178	ug/l	99
45) 1,4-Dioxane	7.665	88	23036	421.049	ug/l	97
46) Methyl methacrylate	7.696	41	50555	21.242	ug/l	98
47) n-amyl Acetate	10.842	43	90049	20.752	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	59162	20.699	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	66361	20.657	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	47830	21.336	ug/l	99
51) Ethyl methacrylate	9.116	69	73932	21.089	ug/l	100
52) 1,3-Dichloropropane	9.305	76	76903	21.119	ug/l	98
53) Dibromochloromethane	9.519	129	50982	20.695	ug/l	100
54) 1,2-Dibromoethane	9.610	107	49301	21.146	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	147504	86.808	ug/l	100
56) Bromoform	10.799	173	40196	20.247	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	352469	108.602	ug/l	99
59) 2-Hexanone	9.433	43	274362	107.931	ug/l	100
61) Tetrachloroethene	9.269	164	47239	21.145	ug/l	96
62) Toluene	8.714	91	196679	21.362	ug/l	98
64) Chlorobenzene	10.080	112	131860	21.223	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	46909	20.981	ug/l	99
66) Ethyl Benzene	10.189	91	215597	21.488	ug/l	97
67) m/p-Xylenes	10.299	106	173964	43.368	ug/l	99
68) o-Xylene	10.640	106	85020	21.297	ug/l	99
69) Styrene	10.653	104	143199	21.328	ug/l	99
70) Isopropylbenzene	10.957	105	221853	21.796	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	74962	21.402	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	68697m	24.702	ug/l	
73) Bromobenzene	11.195	156	61804	21.247	ug/l	99
74) n-propylbenzene	11.305	91	247055	21.971	ug/l	99
75) 2-Chlorotoluene	11.366	91	153780	21.747	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	186516	21.934	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	21245	20.828	ug/l	93
78) 4-Chlorotoluene	11.451	91	170450	21.638	ug/l	100
79) tert-butylbenzene	11.713	119	196718	21.670	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	186218	21.763	ug/l	99
81) sec-Butylbenzene	11.890	105	233925	21.809	ug/l	99
82) p-Isopropyltoluene	12.006	119	203271	21.869	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	111150	21.273	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	112301	21.639	ug/l	100
85) n-Butylbenzene	12.329	91	158414	21.700	ug/l	99
86) Hexachloroethane	12.536	117	32460	20.537	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	113137	21.423	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14875	20.730	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	75844	21.214	ug/l	99
90) Hexachlorobutadiene	13.725	225	37661	21.226	ug/l	97
91) Naphthalene	13.774	128	227657	21.354	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	78363	21.279	ug/l	99

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

