

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033302.D
 Acq On : 14 Dec 2023 01:56
 Operator : SY/MD
 Sample : 05770-02
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EOY74

Quant Time: Dec 14 04:36:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 14 01:07:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	128966	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	123650	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	62223	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	38327	4.636	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.800%
7) Chloroethane-d5	1.532	69	30770	5.004	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.000%
11) 1,1-Dichloroethene-d2	2.060	65	15184	4.614	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.200%
20) 2-Butanone-d5	3.809	46	57324	58.591	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.180%
24) Chloroform-d	4.249	84	88534	5.134	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.600%
26) 1,2-Dichloroethane-d4	4.944	65	42097	5.618	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.400%
32) Benzene-d6	4.960	84	169114	5.287	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.800%
36) 1,2-Dichloropropane-d6	5.989	67	43132	5.924	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	118.400%
41) Toluene-d8	7.243	98	157643	5.058	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.200%
43) trans-1,3-Dichloroprop...	7.558	79	15037	4.527	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.600%
46) 2-Hexanone-d5	8.027	63	59889	64.588	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.180%
56) 1,1,2,2-Tetrachloroeth...	10.153	84	27276	5.539	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.800%
66) 1,2-Dichlorobenzene-d4	11.561	152	59473	5.427	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	1442	0.157	ug/L #	82
5) Vinyl chloride	1.282	62	812	0.087	ug/L #	1
8) Chloroethane	1.282	64	834	0.155	ug/L #	1
14) Carbon disulfide	2.243	76	7205	0.300	ug/L	99
15) Methyl Acetate	2.372	43	1759	0.958	ug/L #	49
22) cis-1,2-Dichloroethene	3.818	96	15837	1.715	ug/L	96
25) Chloroform	4.281	83	30975	1.873	ug/L	97
30) Cyclohexane	4.580	56	8570	0.783	ug/L	95
33) Benzene	5.015	78	32028	0.967	ug/L	100
34) Trichloroethene	5.844	95	4055	0.420	ug/L	89
35) Methylcyclohexane	6.050	83	13784	0.963	ug/L	97
39) cis-1,3-Dichloropropene	6.918	75	1445	0.134	ug/L #	73
40) 4-Methyl-2-pentanone	7.175	43	2134	0.905	ug/L #	73
42) Toluene	7.317	91	334034	8.802	ug/L	99
44) trans-1,3-Dichloropropene	7.558	75	794	0.088	ug/L #	55
45) 1,1,2-Trichloroethane	7.719	97	631	0.123	ug/L #	18
47) Tetrachloroethene	7.908	164	1839	0.201	ug/L	89
49) Dibromochloromethane	7.905	129	1488	0.207	ug/L #	11
51) Chlorobenzene	8.818	112	2073	0.080	ug/L	92

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

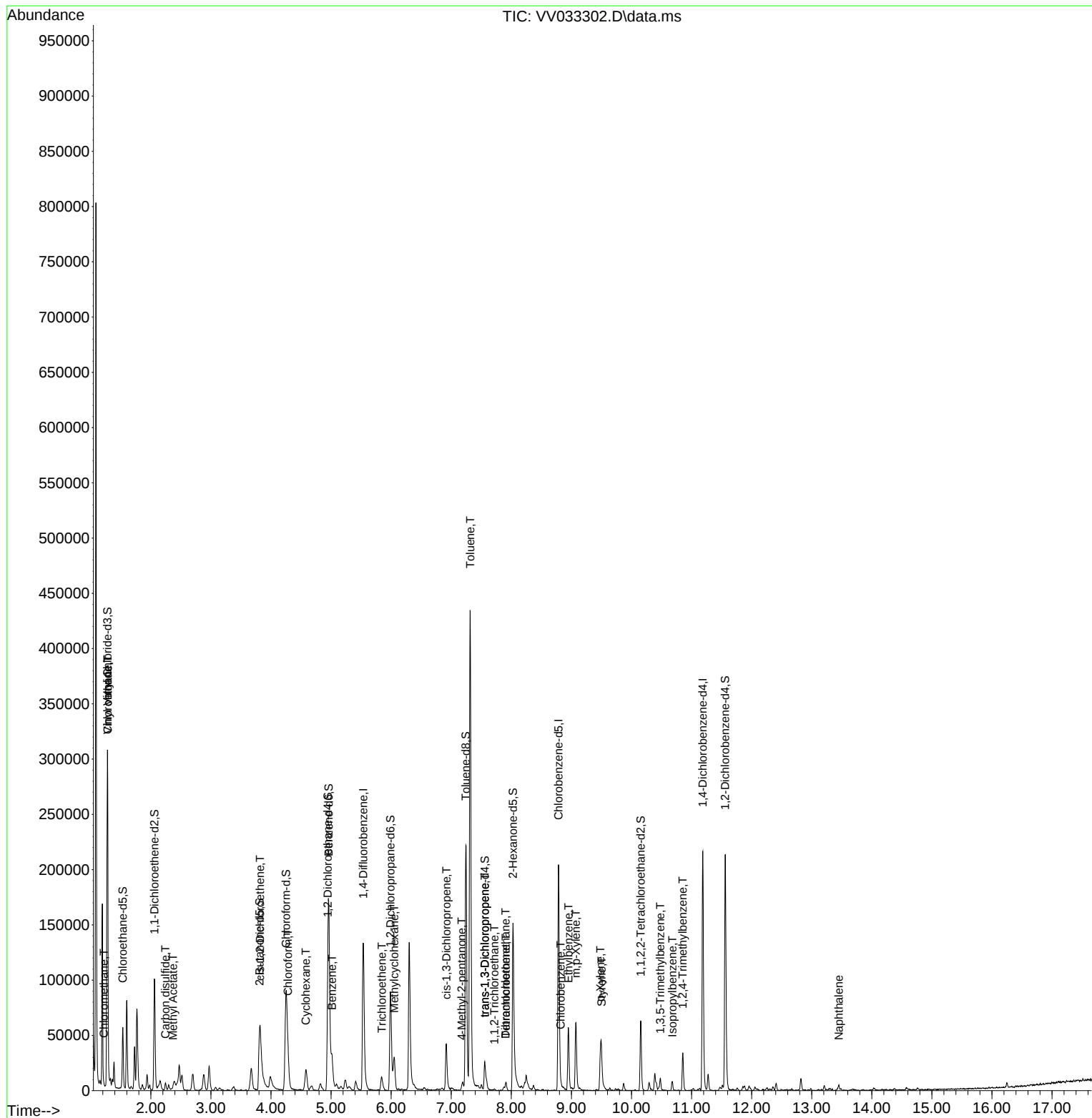
52) Ethylbenzene	8.950	91	41957	0.987	ug/L	96
53) m,p-Xylene	9.075	106	19977	1.142	ug/L	98
54) o-Xylene	9.484	106	9374	0.566	ug/L	80
55) Styrene	9.503	104	4985	0.183	ug/L	90
60) Isopropylbenzene	10.680	105	5553	0.135	ug/L	95
62) 1,3,5-Trimethylbenzene	10.481	105	6472	0.192	ug/L	99
63) 1,2,4-Trimethylbenzene	10.854	105	20390	0.611	ug/L	97
71) Naphthalene	13.451	128	4836	0.324	ug/L	97

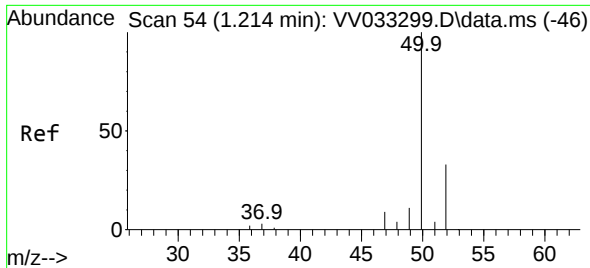
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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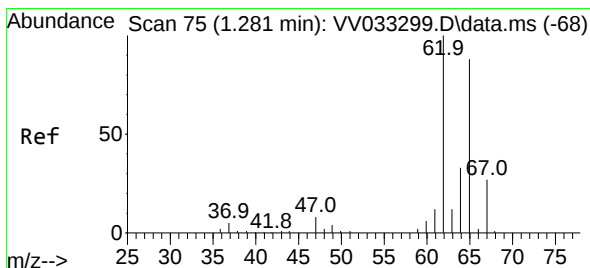
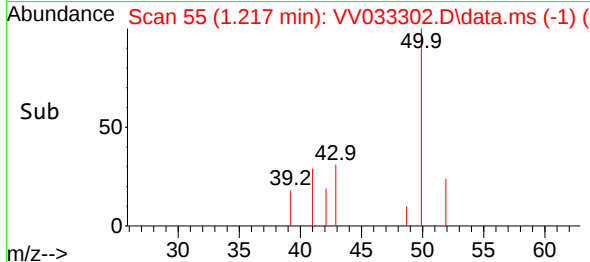
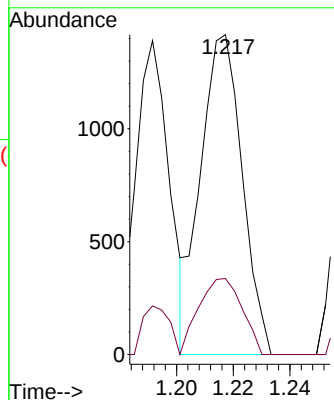
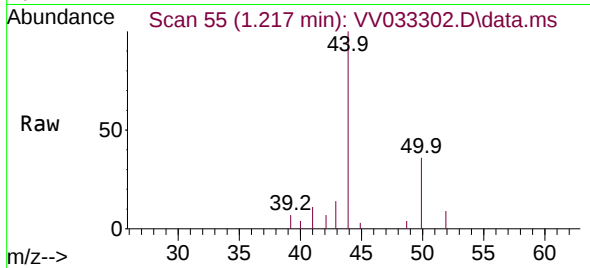




#3
Chloromethane
Concen: 0.157 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

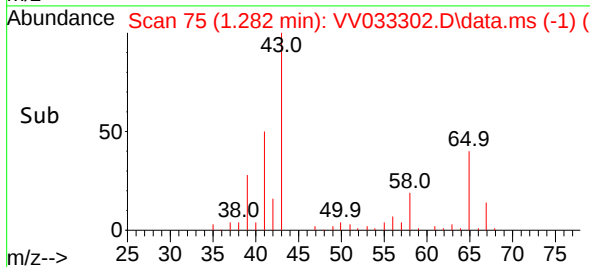
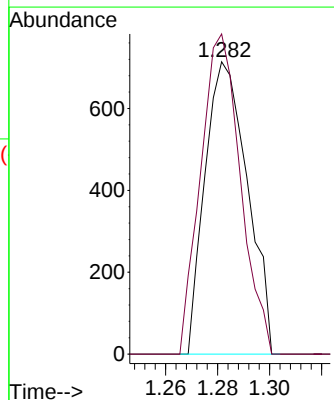
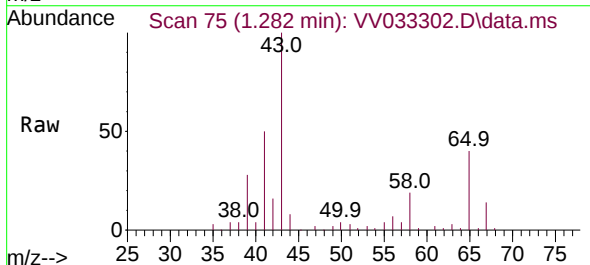
Instrument :
MSVOA_V
ClientSampleId :
E0Y74

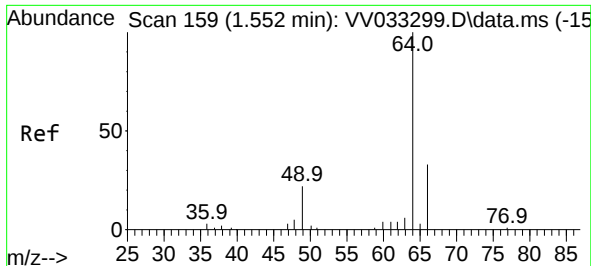
Tgt Ion: 50 Resp: 1442
Ion Ratio Lower Upper
50 100
52 23.8 23.8 44.2#



#5
Vinyl chloride
Concen: 0.087 ug/L
RT: 1.282 min Scan# 75
Delta R.T. 0.000 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 62 Resp: 812
Ion Ratio Lower Upper
62 100
64 109.5 23.0 42.8#

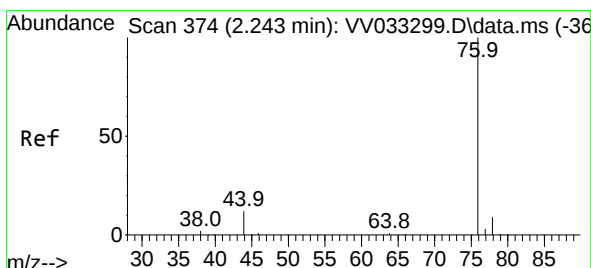
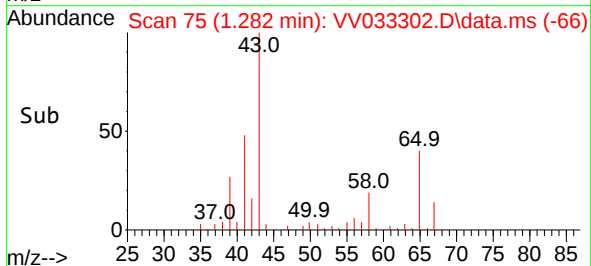
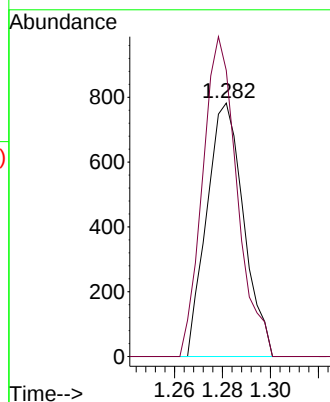
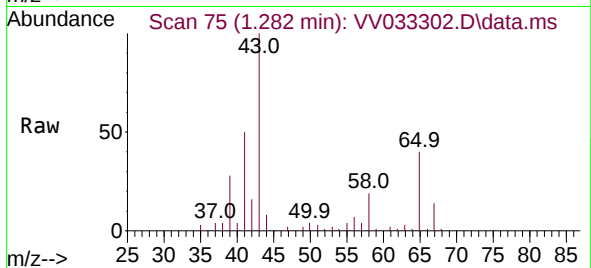




#8
Chloroethane
Concen: 0.155 ug/L
RT: 1.282 min Scan# 71
Delta R.T. -0.270 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

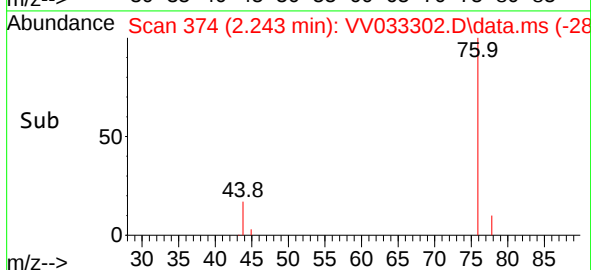
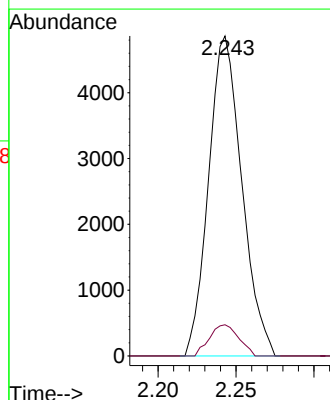
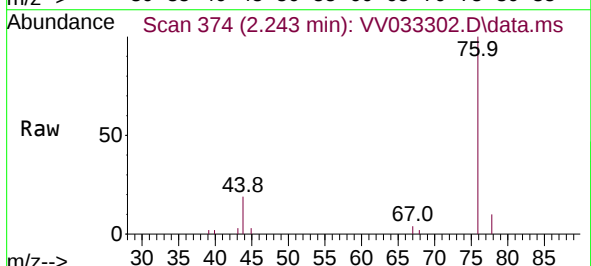
Instrument :
MSVOA_V
ClientSampleId :
E0Y74

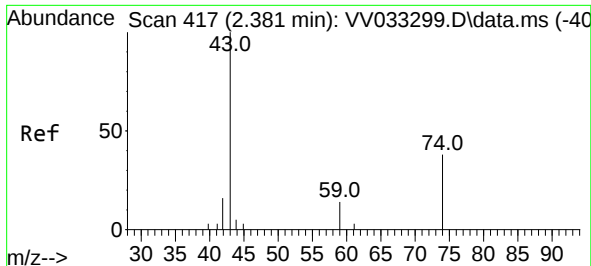
Tgt Ion: 64 Resp: 834
Ion Ratio Lower Upper
64 100
66 112.9 22.9 42.5#



#14
Carbon disulfide
Concen: 0.300 ug/L
RT: 2.243 min Scan# 374
Delta R.T. 0.000 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 76 Resp: 7205
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0

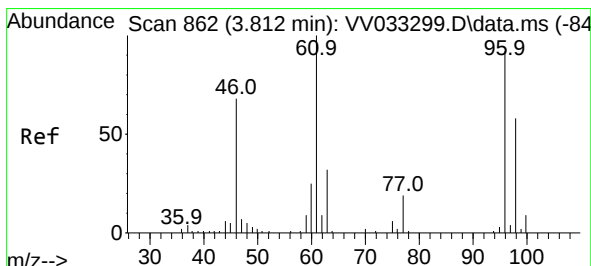
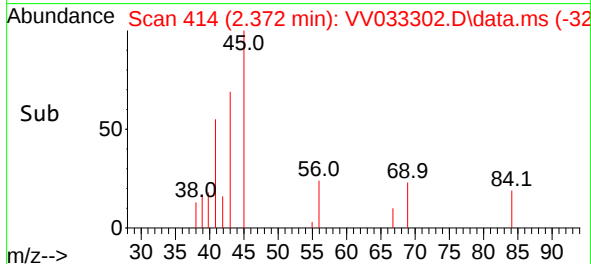
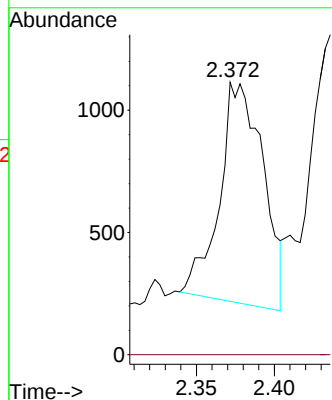
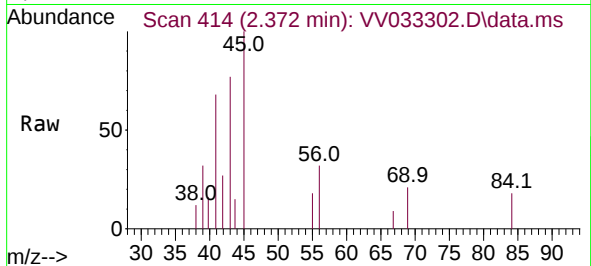




#15
Methyl Acetate
Concen: 0.958 ug/L
RT: 2.372 min Scan# 417
Delta R.T. -0.010 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

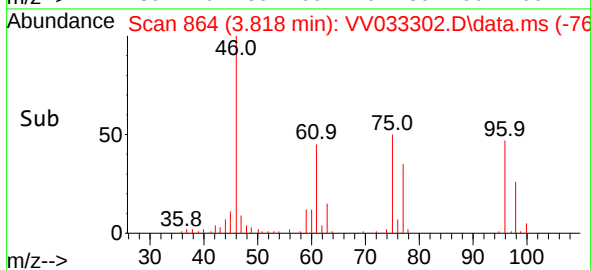
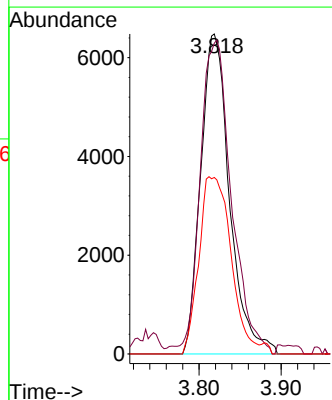
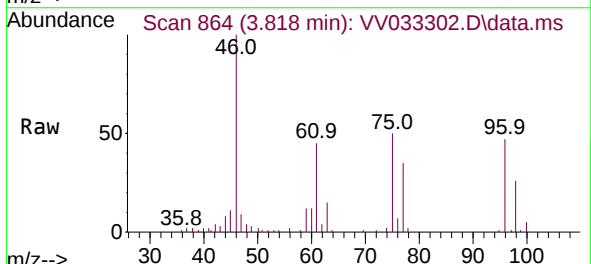
Instrument :
MSVOA_V
ClientSampleId :
E0Y74

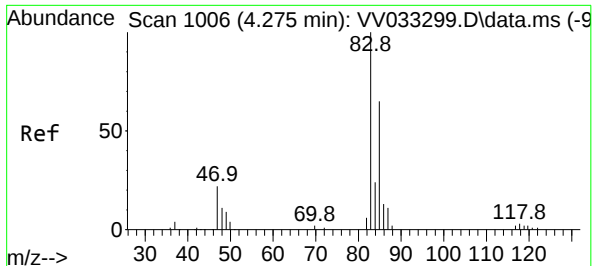
Tgt Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
74 0.0 21.0 31.6#



#22
cis-1,2-Dichloroethene
Concen: 1.715 ug/L
RT: 3.818 min Scan# 864
Delta R.T. 0.007 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 96 Resp: 15837
Ion Ratio Lower Upper
96 100
61 97.1 69.9 129.9
98 55.2 42.4 78.8





#25

Chloroform

Concen: 1.873 ug/L

RT: 4.281 min Scan# 1100

Delta R.T. 0.007 min

Lab File: VV033302.D

Acq: 14 Dec 2023 01:56

Instrument :

MSVOA_V

ClientSampleId :

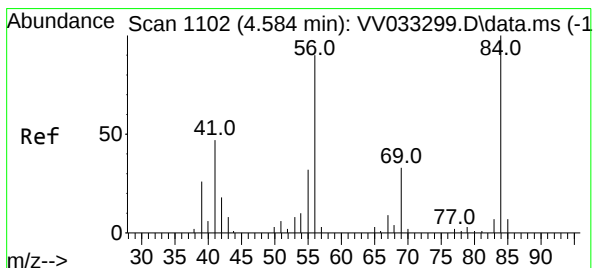
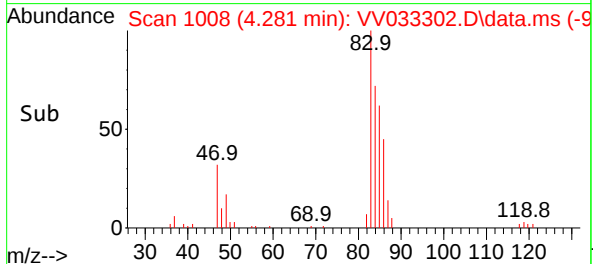
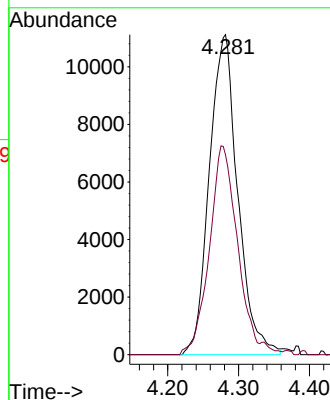
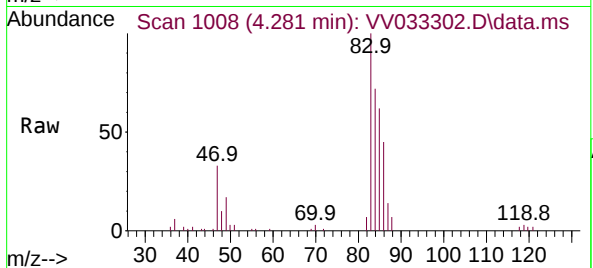
E0Y74

Tgt Ion: 83 Resp: 30975

Ion Ratio Lower Upper

83 100

85 62.5 45.3 84.1



#30

Cyclohexane

Concen: 0.783 ug/L

RT: 4.580 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VV033302.D

Acq: 14 Dec 2023 01:56

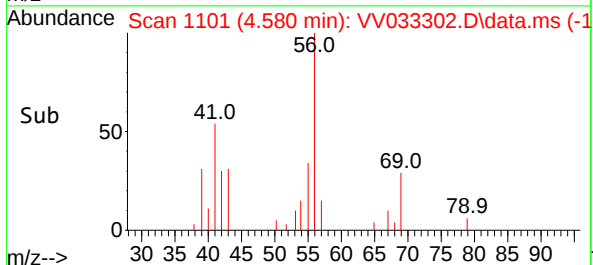
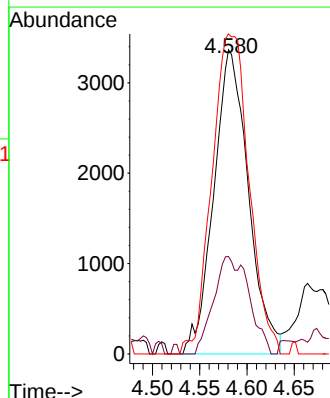
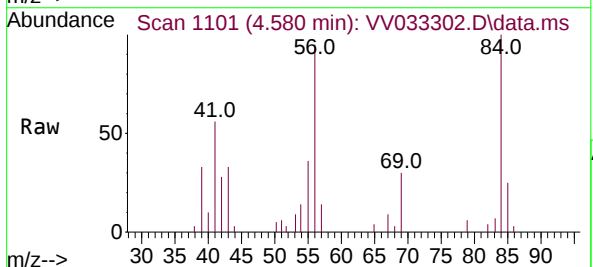
Tgt Ion: 56 Resp: 8570

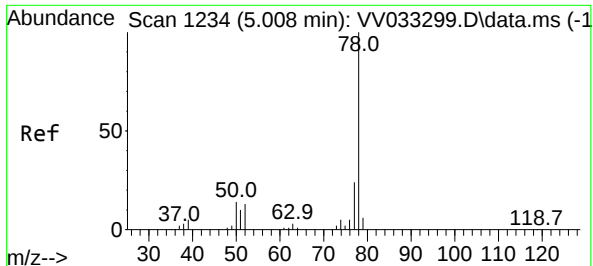
Ion Ratio Lower Upper

56 100

69 32.7 28.8 43.2

84 112.7 86.2 129.4

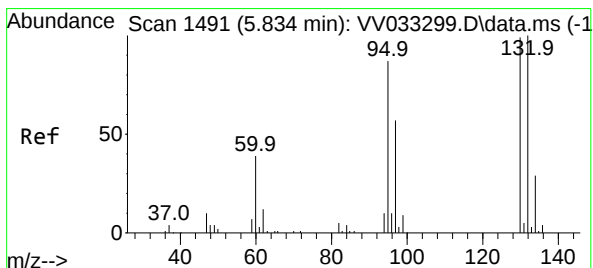
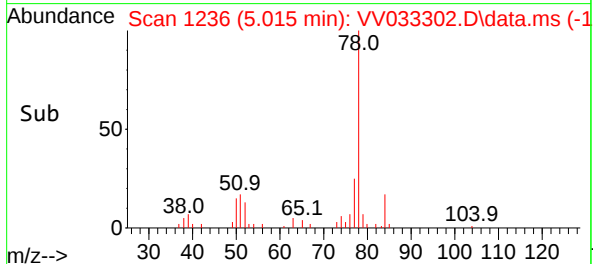
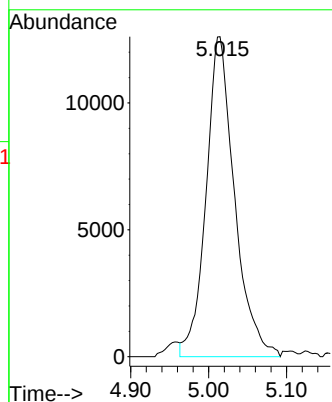
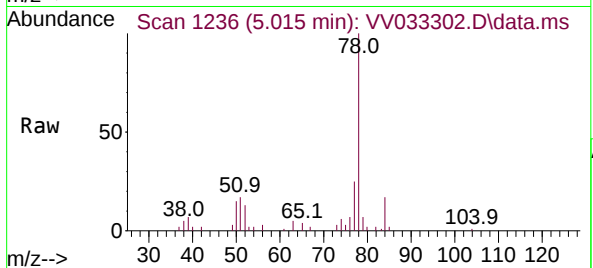




#33
Benzene
Concen: 0.967 ug/L
RT: 5.015 min Scan# 11
Delta R.T. 0.007 min
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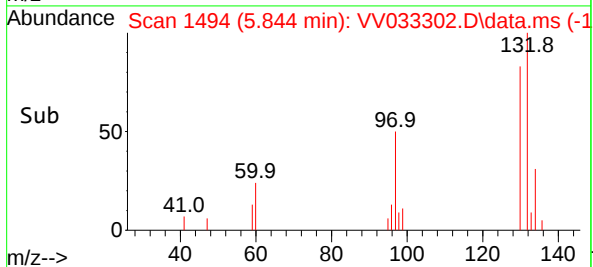
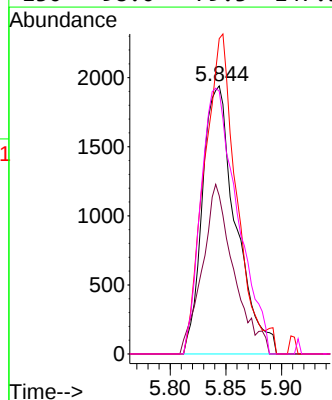
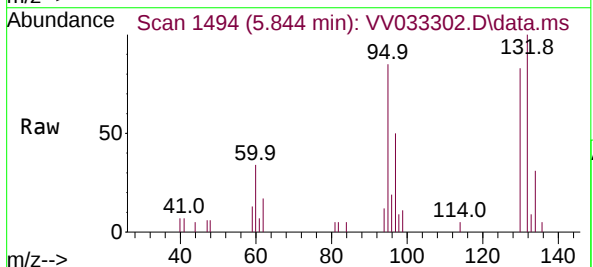
Tgt Ion: 78 Resp: 32028

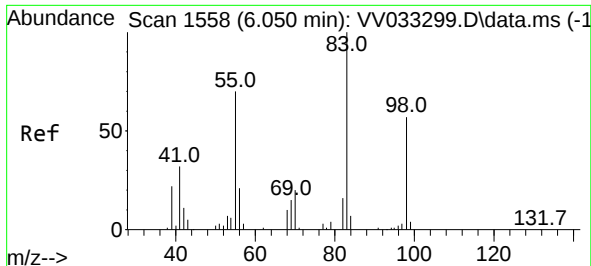


#34
Trichloroethene
Concen: 0.420 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.010 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 95 Resp: 4055

Ion	Ratio	Lower	Upper
95	100		
97	59.0	46.5	86.5
132	117.6	75.1	139.5
130	98.0	79.3	147.3

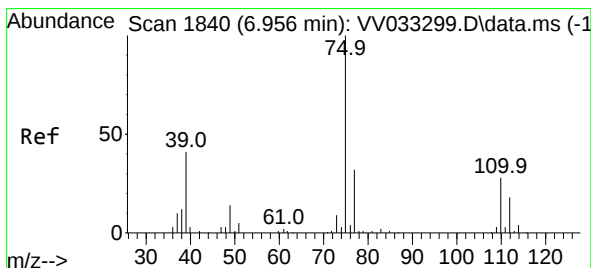
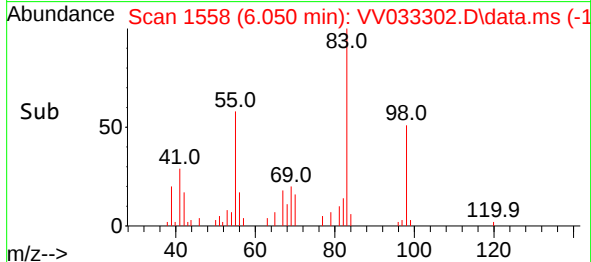
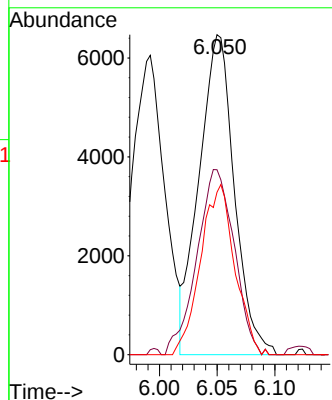
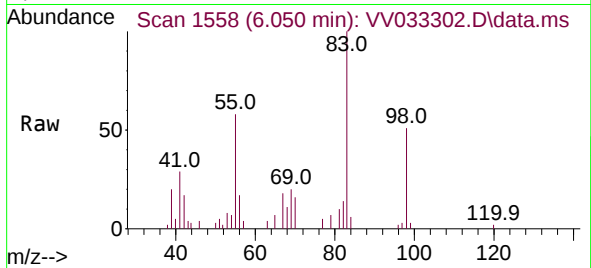




#35
Methylcyclohexane
Concen: 0.963 ug/L
RT: 6.050 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

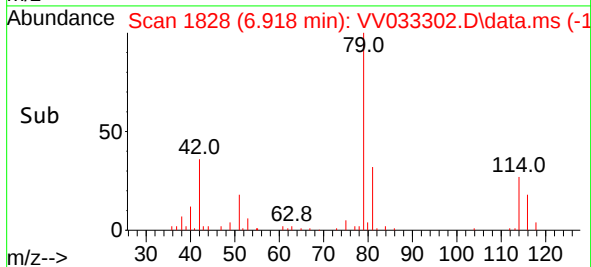
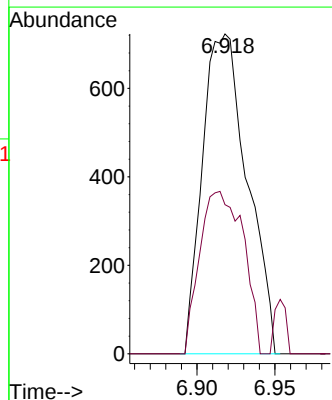
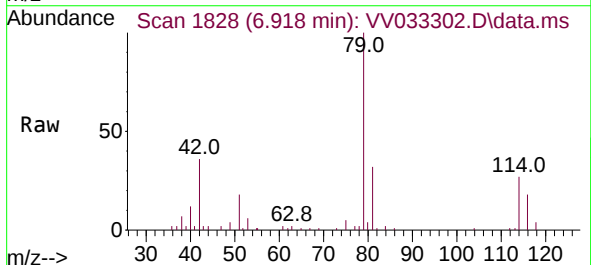
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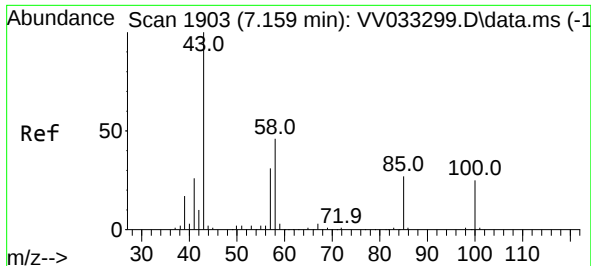
Tgt Ion: 83 Resp: 13784
Ion Ratio Lower Upper
83 100
55 61.0 50.7 76.1
98 51.5 42.4 63.6



#39
cis-1,3-Dichloropropene
Concen: 0.134 ug/L
RT: 6.918 min Scan# 1828
Delta R.T. -0.038 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 75 Resp: 1445
Ion Ratio Lower Upper
75 100
77 46.6 22.1 41.1#





#40

4-Methyl-2-pentanone

Concen: 0.905 ug/L

RT: 7.175 min Scan# 1908

Delta R.T. 0.016 min

Lab File: VV033302.D

Acq: 14 Dec 2023 01:56

Instrument :

MSVOA_V

ClientSampleId :

E0Y74

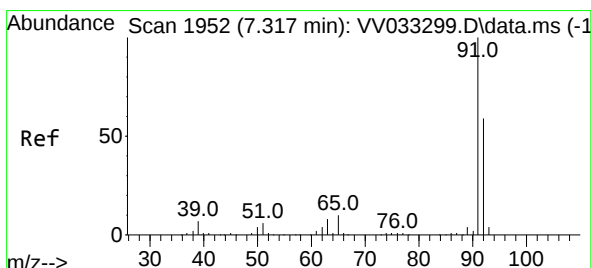
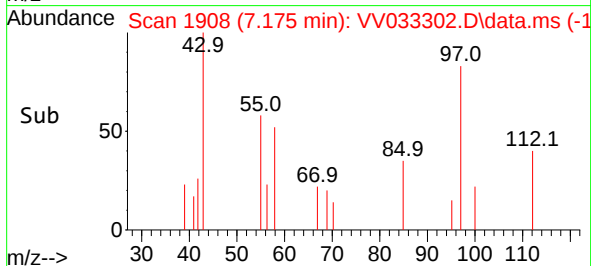
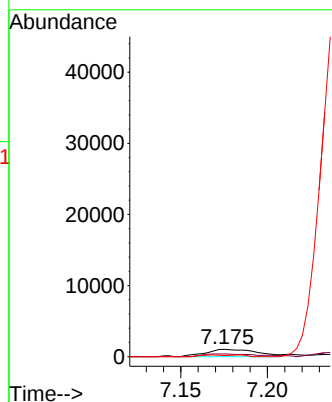
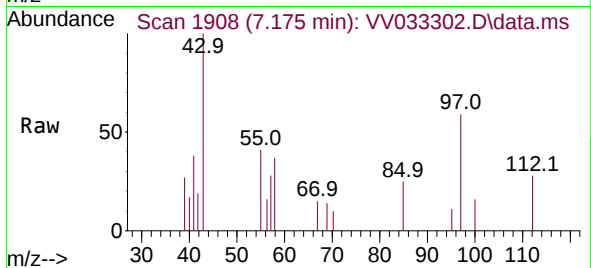
Tgt Ion: 43 Resp: 2134

Ion Ratio Lower Upper

43 100

58 34.7 36.2 54.2#

100 0.0 18.8 28.2#



#42

Toluene

Concen: 8.802 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VV033302.D

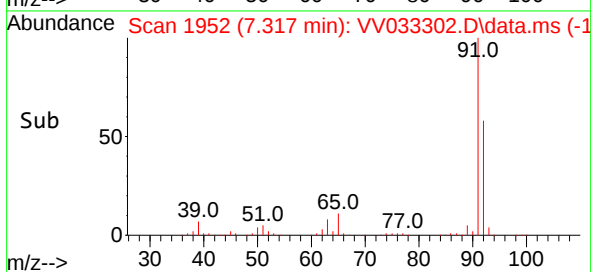
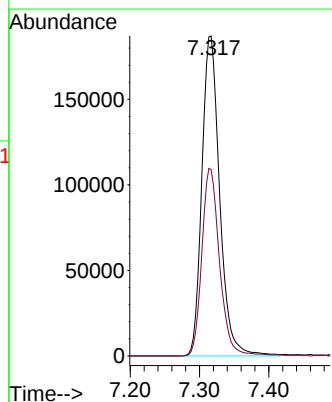
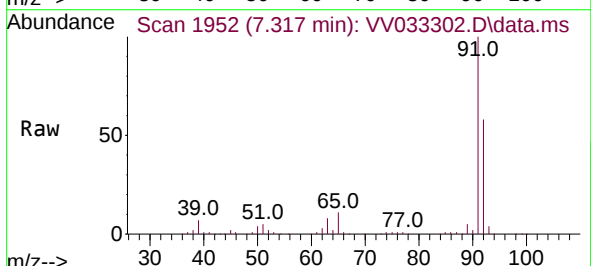
Acq: 14 Dec 2023 01:56

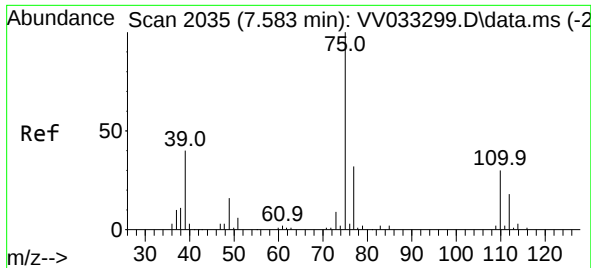
Tgt Ion: 91 Resp: 334034

Ion Ratio Lower Upper

91 100

92 58.2 40.2 74.6

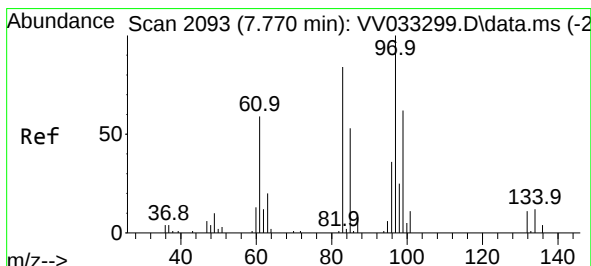
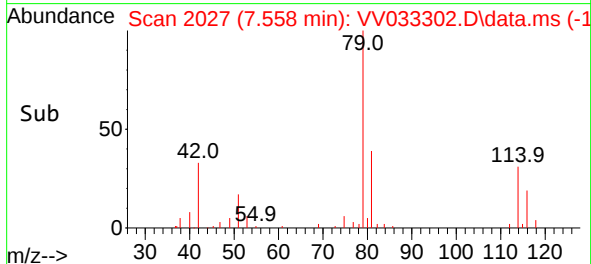
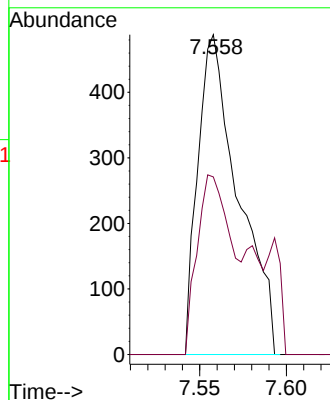
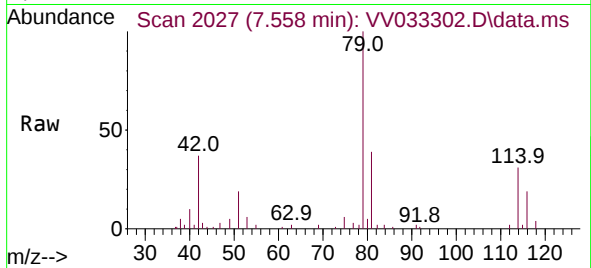




#44
trans-1,3-Dichloropropene
Concen: 0.088 ug/L
RT: 7.558 min Scan# 2077
Delta R.T. -0.026 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

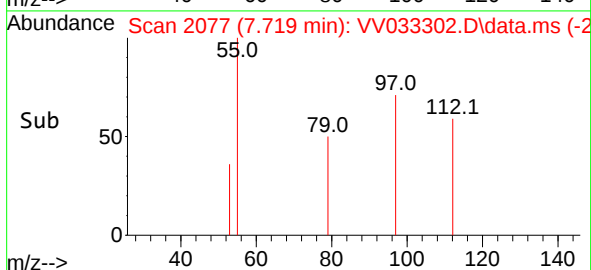
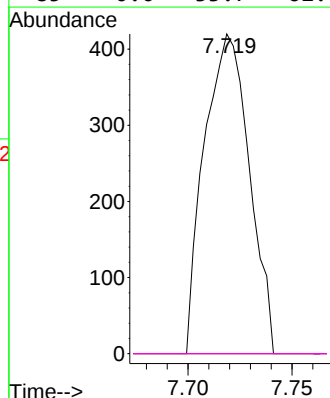
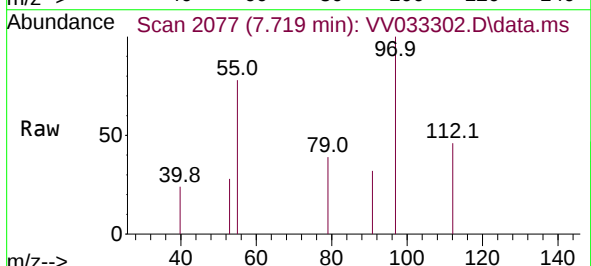
Instrument :
MSVOA_V
ClientSampleId :
E0Y74

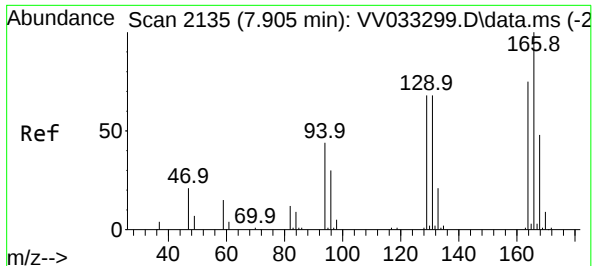
Tgt Ion: 75 Resp: 794
Ion Ratio Lower Upper
75 100
77 55.5 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 0.123 ug/L
RT: 7.719 min Scan# 2077
Delta R.T. -0.051 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 97 Resp: 631
Ion Ratio Lower Upper
97 100
99 0.0 44.5 82.7#
83 0.0 54.7 101.5#
85 0.0 33.7 62.7#





#47

Tetrachloroethene

Concen: 0.201 ug/L

RT: 7.908 min Scan# 2135

Delta R.T. 0.003 min

Lab File: VV033302.D

Acq: 14 Dec 2023 01:56

Instrument :

MSVOA_V

ClientSampleId :

E0Y74

Tgt Ion:164 Resp: 1839

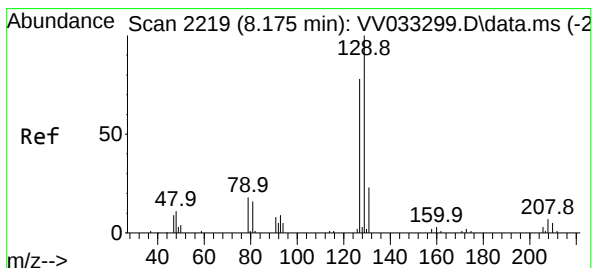
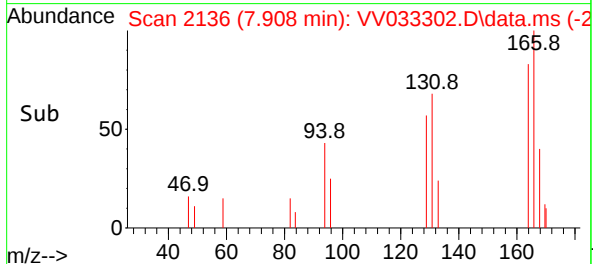
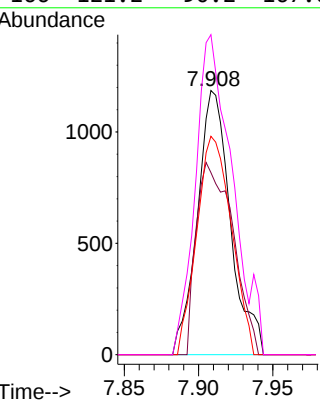
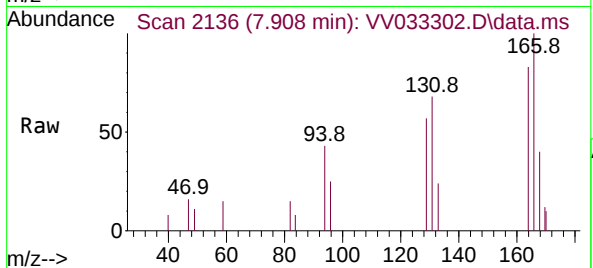
Ion Ratio Lower Upper

164 100

129 69.0 62.6 116.3

131 82.7 62.6 116.3

166 121.2 90.2 167.6



#49

Dibromochloromethane

Concen: 0.207 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. -0.270 min

Lab File: VV033302.D

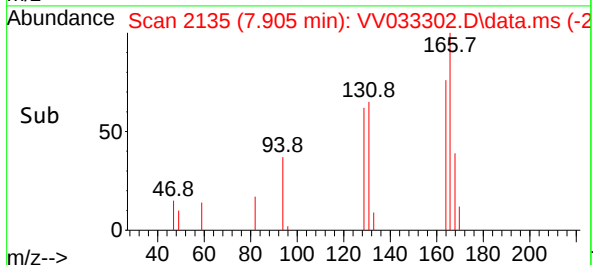
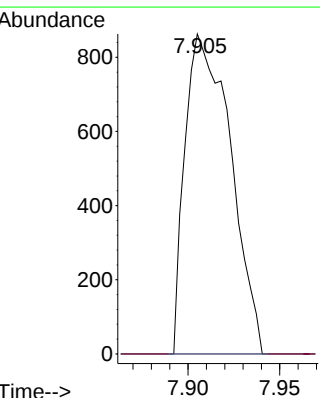
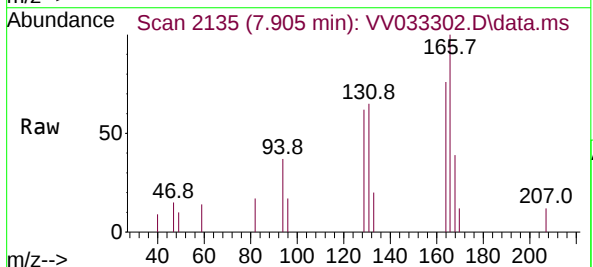
Acq: 14 Dec 2023 01:56

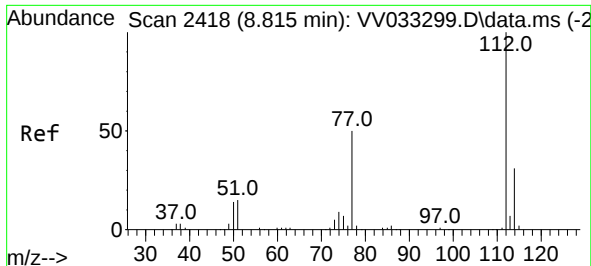
Tgt Ion:129 Resp: 1488

Ion Ratio Lower Upper

129 100

127 0.0 53.2 98.8#

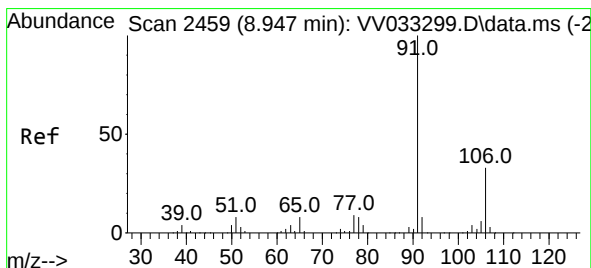
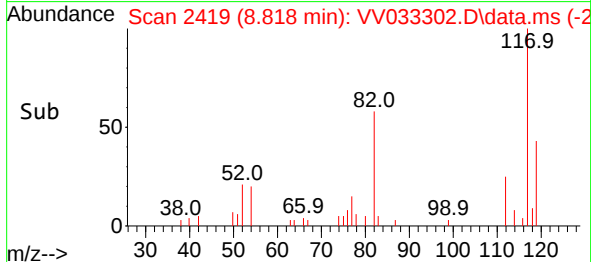
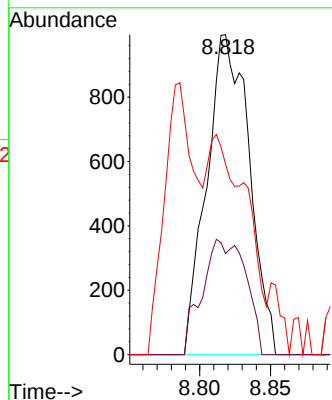
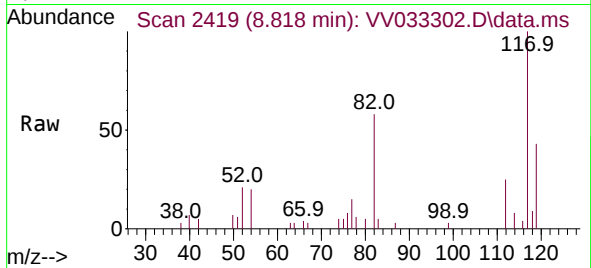




#51
Chlorobenzene
Concen: 0.080 ug/L
RT: 8.818 min Scan# 2418
Delta R.T. 0.003 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

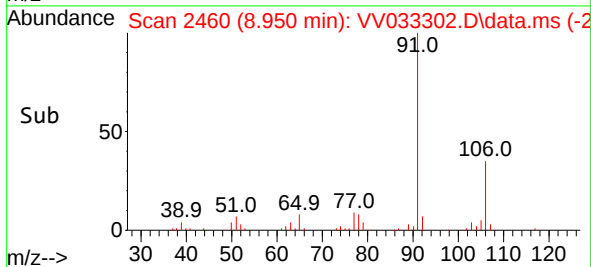
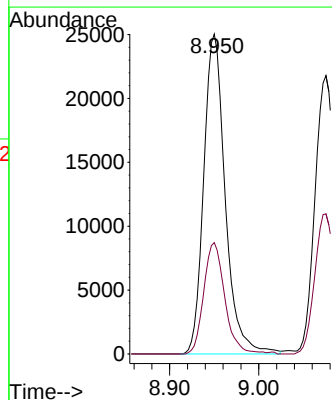
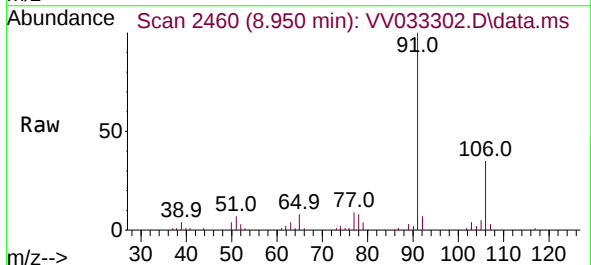
Instrument :
MSVOA_V
ClientSampleId :
E0Y74

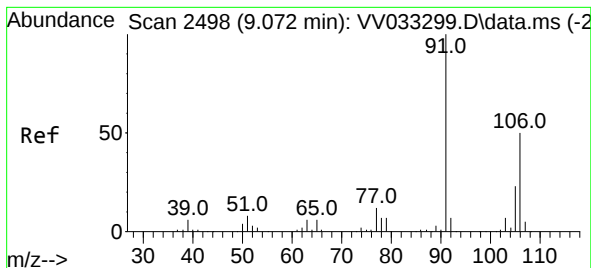
Tgt Ion: 112 Resp: 2073
Ion Ratio Lower Upper
112 100
114 31.6 22.8 42.4
77 59.7 41.3 61.9



#52
Ethylbenzene
Concen: 0.987 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.003 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion: 91 Resp: 41957
Ion Ratio Lower Upper
91 100
106 34.8 22.7 42.3





#53

m,p-Xylene

Concen: 1.142 ug/L

RT: 9.075 min Scan# 2498

Delta R.T. 0.003 min

Lab File: VV033302.D

Acq: 14 Dec 2023 01:56

Instrument :

MSVOA_V

ClientSampleId :

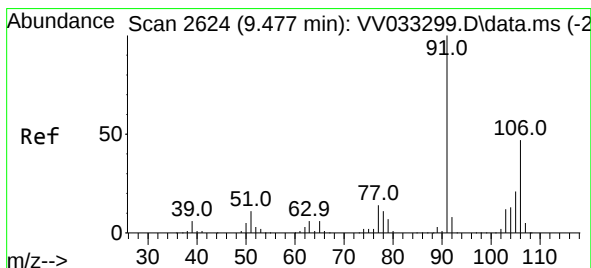
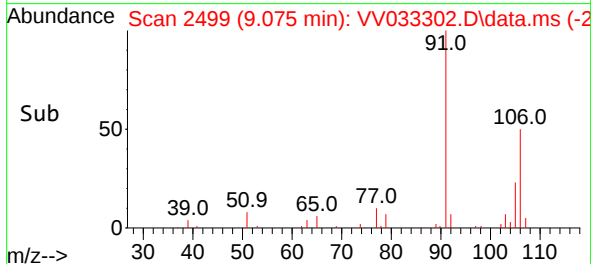
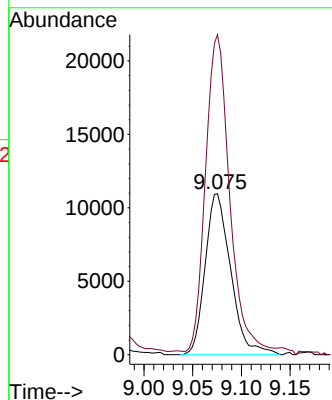
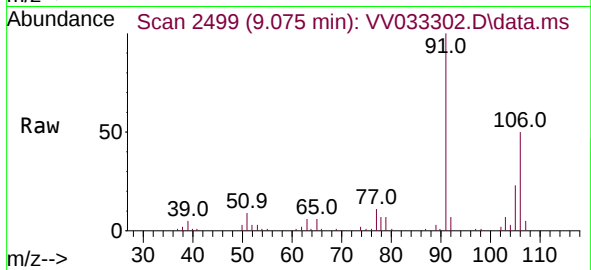
E0Y74

Tgt Ion:106 Resp: 19977

Ion Ratio Lower Upper

106 100

91 198.7 136.8 254.0



#54

o-Xylene

Concen: 0.566 ug/L

RT: 9.484 min Scan# 2626

Delta R.T. 0.007 min

Lab File: VV033302.D

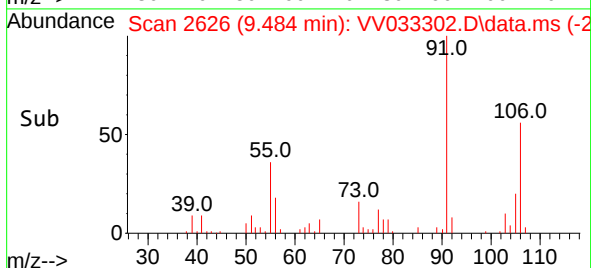
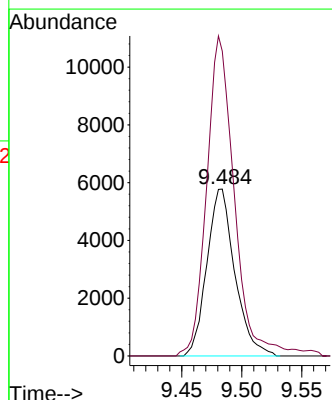
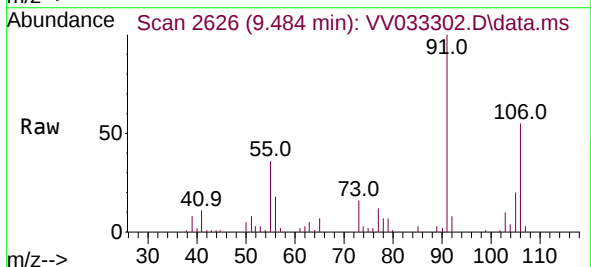
Acq: 14 Dec 2023 01:56

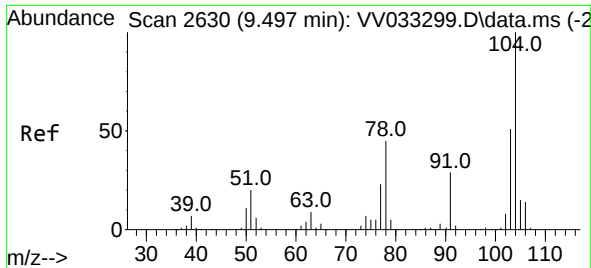
Tgt Ion:106 Resp: 9374

Ion Ratio Lower Upper

106 100

91 182.7 149.9 278.5

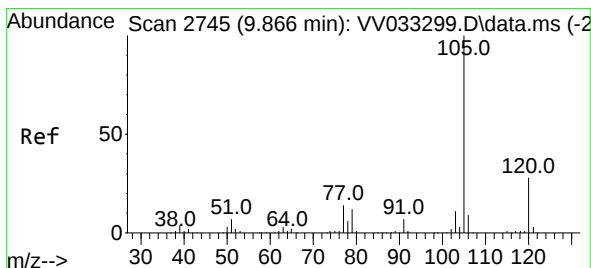
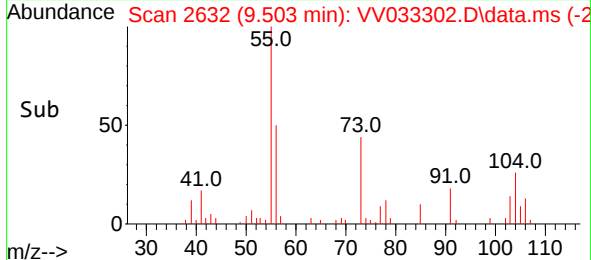
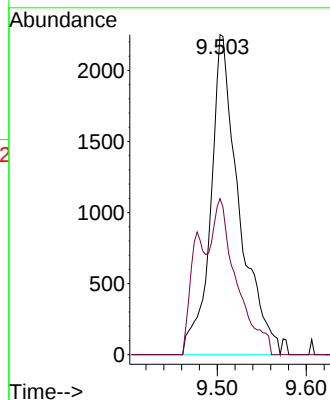
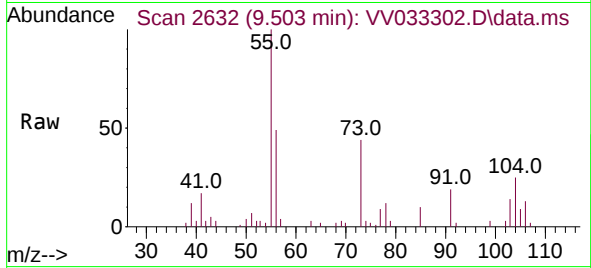




#55
Styrene
Concen: 0.183 ug/L
RT: 9.503 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

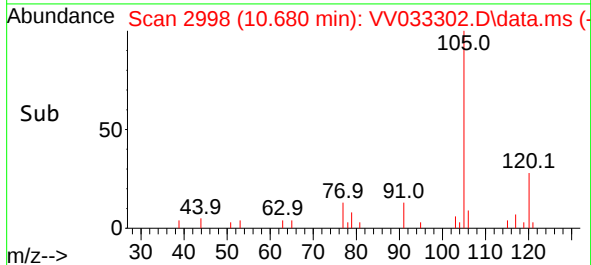
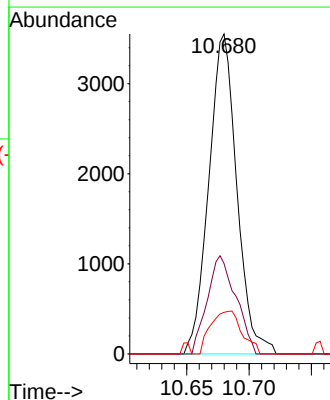
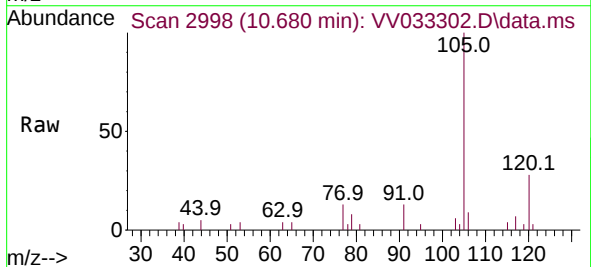
Instrument :
MSVOA_V
ClientSampleId :
E0Y74

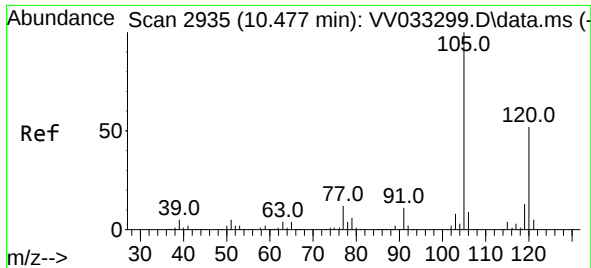
Tgt Ion:104 Resp: 4985
Ion Ratio Lower Upper
104 100
78 48.8 29.9 55.5



#60
Isopropylbenzene
Concen: 0.135 ug/L
RT: 10.680 min Scan# 2998
Delta R.T. 0.814 min
Lab File: VV033302.D
Acq: 14 Dec 2023 01:56

Tgt Ion:105 Resp: 5553
Ion Ratio Lower Upper
105 100
120 31.3 22.2 33.4
77 15.0 11.6 17.4

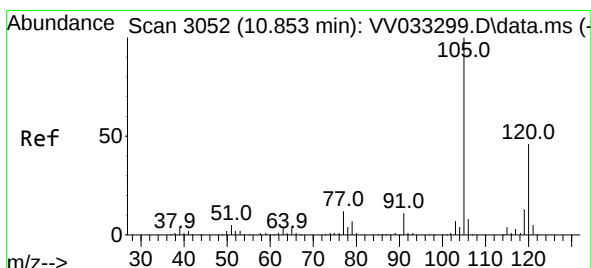
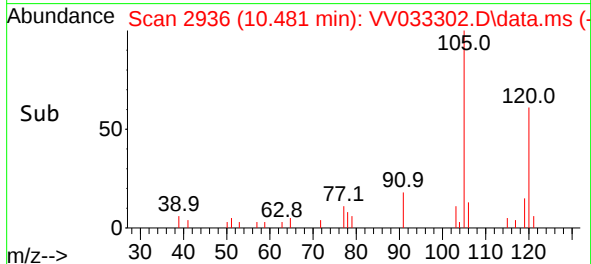
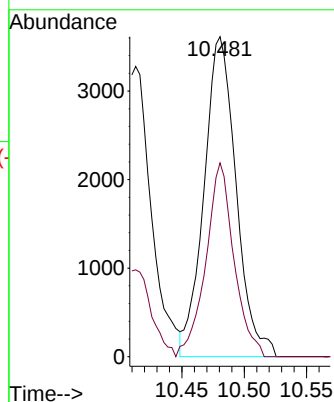
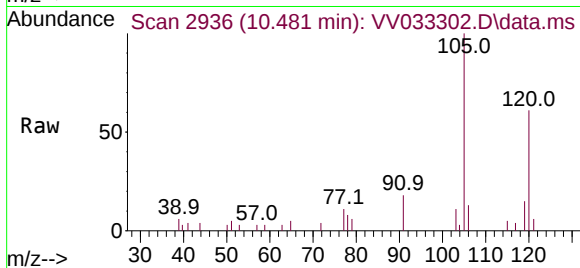




#62
 1,3,5-Trimethylbenzene
 Concen: 0.192 ug/L
 RT: 10.481 min Scan# 2935
 Delta R.T. 0.003 min
 Lab File: VV033302.D
 Acq: 14 Dec 2023 01:56

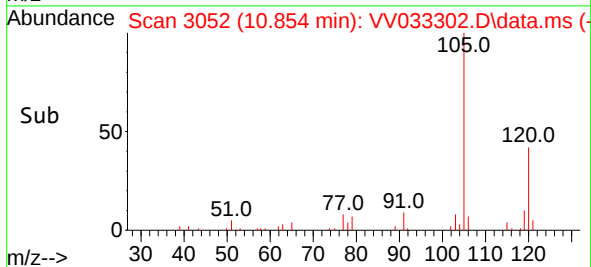
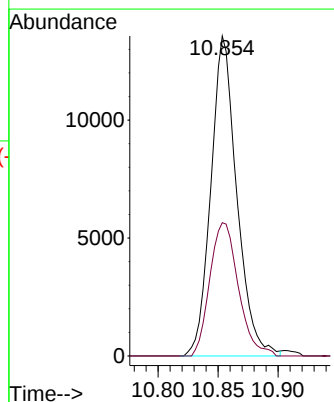
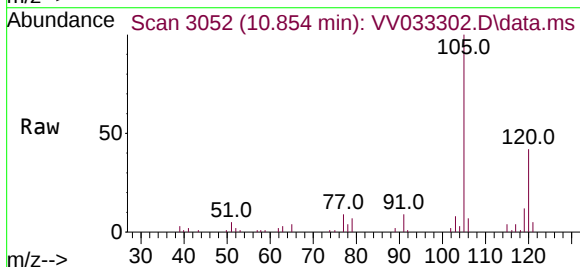
Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y74

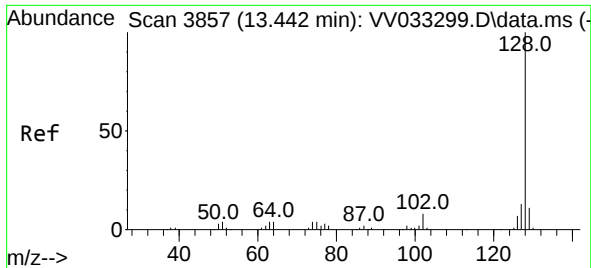
Tgt Ion:105 Resp: 6472
 Ion Ratio Lower Upper
 105 100
 120 53.0 41.7 62.5



#63
 1,2,4-Trimethylbenzene
 Concen: 0.611 ug/L
 RT: 10.854 min Scan# 3052
 Delta R.T. 0.000 min
 Lab File: VV033302.D
 Acq: 14 Dec 2023 01:56

Tgt Ion:105 Resp: 20390
 Ion Ratio Lower Upper
 105 100
 120 45.9 38.1 57.1





#71

Naphthalene

Concen: 0.324 ug/L

RT: 13.451 min Scan# 3860

Delta R.T. 0.010 min

Lab File: VV033302.D

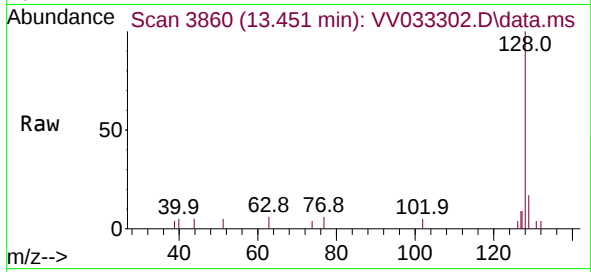
Acq: 14 Dec 2023 01:56

Instrument :

MSVOA_V

ClientSampleId :

E0Y74



Tgt Ion:128 Resp: 4836

Ion Ratio Lower Upper

128 100

129 12.2 8.8 13.2

127 11.5 10.1 15.1

