

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033279.D
 Acq On : 13 Dec 2023 16:23
 Operator : SY/MD
 Sample : 05731-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EOY51

Quant Time: Dec 13 23:33:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 13 23:30:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	138759	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	133835	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	75209	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	42200	4.744	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.800%
7) Chloroethane-d5	1.532	69	30885	4.668	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.400%
11) 1,1-Dichloroethene-d2	2.060	65	15483	4.373	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.400%
20) 2-Butanone-d5	3.793	46	59769	56.779	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.560%
24) Chloroform-d	4.246	84	89744	4.837	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.800%
26) 1,2-Dichloroethane-d4	4.944	65	40947	5.079	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.600%
32) Benzene-d6	4.960	84	172234	4.975	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.400%
36) 1,2-Dichloropropane-d6	5.989	67	39395	4.999	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.000%
41) Toluene-d8	7.243	98	171253	5.076	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.600%
43) trans-1,3-Dichloroprop...	7.555	79	18481	5.141	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.800%
46) 2-Hexanone-d5	8.024	63	52008	51.821	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.640%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	27075	5.080	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.600%
66) 1,2-Dichlorobenzene-d4	11.561	152	67595	5.103	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	1022	0.103	ug/L	94
5) Vinyl chloride	1.285	62	94768	9.462	ug/L	99
8) Chloroethane	1.285	64	31769	5.498	ug/L #	46
13) Acetone	2.124	43	118518	159.074	ug/L #	61
14) Carbon disulfide	2.243	76	3611	0.140	ug/L	97
15) Methyl Acetate	2.124	43	115824	58.659	ug/L #	49
16) Methylene chloride	2.449	84	2105	0.230	ug/L	90
17) Methyl tert-butyl Ether	2.706	73	2638	0.161	ug/L #	1
18) trans-1,2-Dichloroethene	2.703	96	2066	0.215	ug/L	86
21) 2-Butanone	3.860	43	2410908	2221.241	ug/L	90
22) cis-1,2-Dichloroethene	3.812	96	1130418	113.754	ug/L	94
30) Cyclohexane	4.580	56	3854	0.325	ug/L #	56
33) Benzene	5.008	78	495578	13.820	ug/L	100
34) Trichloroethene	5.850	95	918	0.088	ug/L #	87
35) Methylcyclohexane	6.053	83	5324	0.344	ug/L	97
37) 1,2-Dichloropropane	5.989	63	5696	0.790	ug/L #	82
39) cis-1,3-Dichloropropene	6.911	75	1032	0.088	ug/L #	34
40) 4-Methyl-2-pentanone	7.156	43	1974068	773.435	ug/L	99
42) Toluene	7.313	91	1433986	34.910	ug/L	98

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

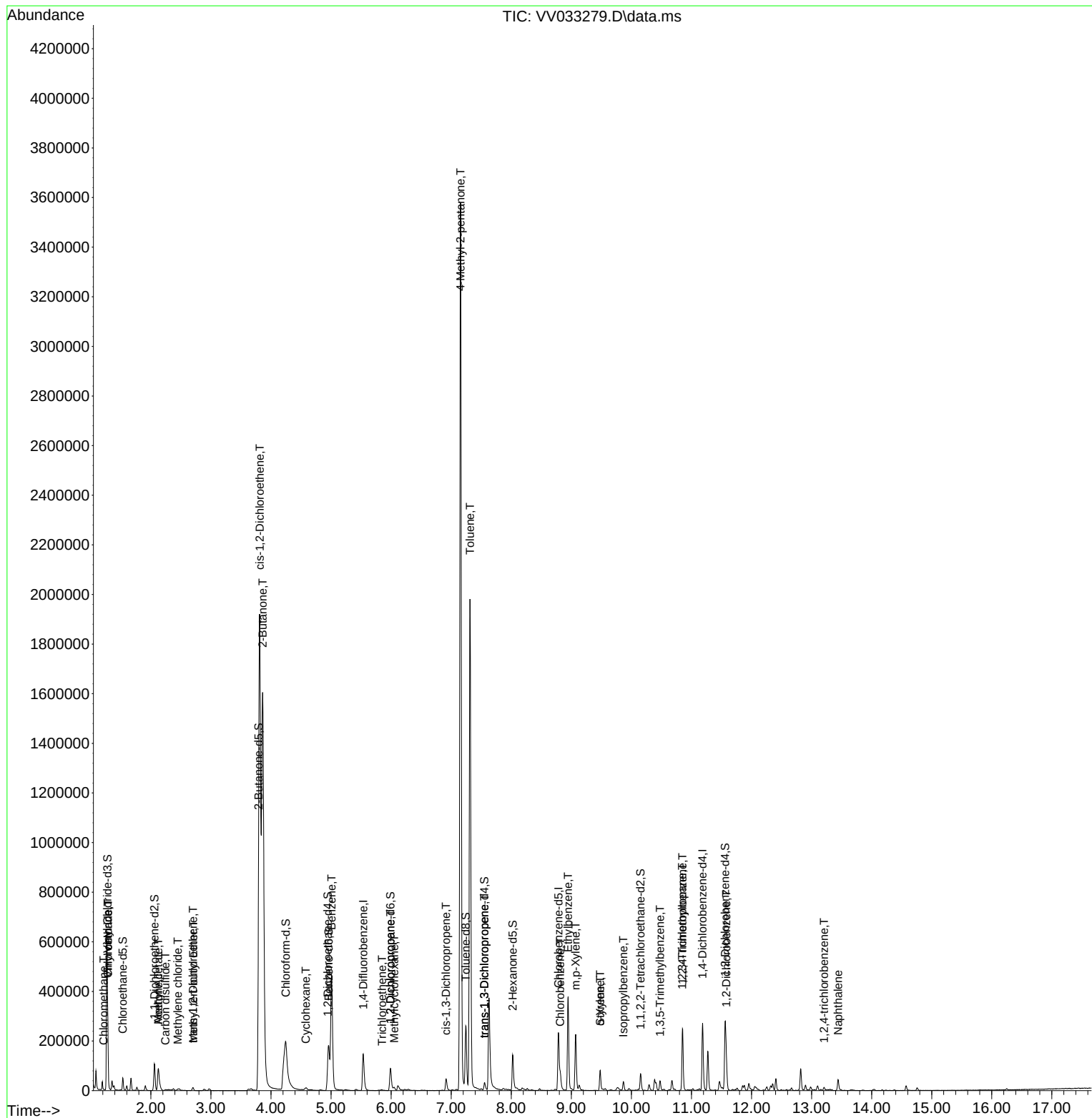
44) trans-1,3-Dichloropropene	7.555	75	881	0.090	ug/L #	66
51) Chlorobenzene	8.815	112	40713	1.447	ug/L	98
52) Ethylbenzene	8.947	91	264370	5.745	ug/L	97
53) m,p-Xylene	9.072	106	65709	3.469	ug/L	99
54) o-Xylene	9.480	106	23111	1.288	ug/L	86
55) Styrene	9.480	104	1840	0.063	ug/L #	1
60) Isopropylbenzene	9.866	105	23417	0.470	ug/L	99
61) 1,2,3-Trichloropropane	10.847	75	1341	0.336	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.477	105	21957	0.539	ug/L	94
63) 1,2,4-Trimethylbenzene	10.850	105	139356	3.457	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	39838	1.828	ug/L	98
70) 1,2,4-trichlorobenzene	13.207	180	1635	0.105	ug/L #	79
71) Naphthalene	13.442	128	37848	2.095	ug/L	98

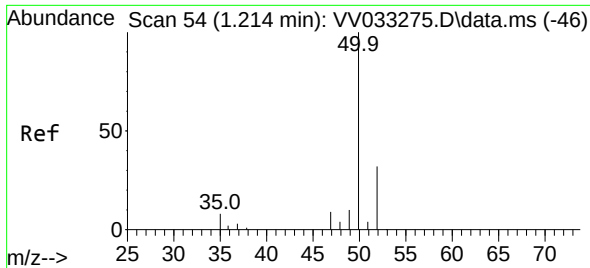
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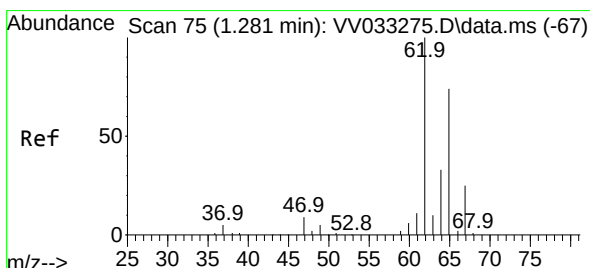
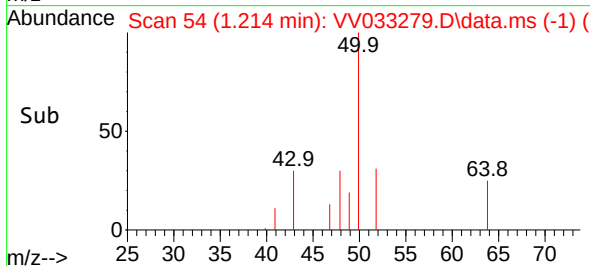
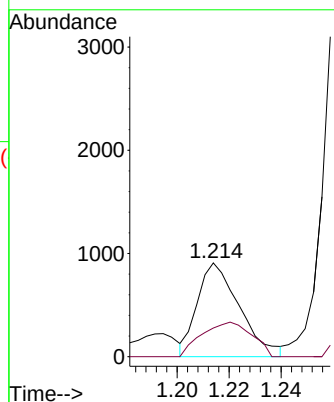
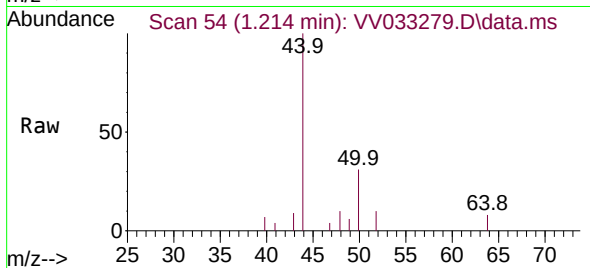




#3
Chloromethane
Concen: 0.103 ug/L
RT: 1.214 min Scan# 54
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

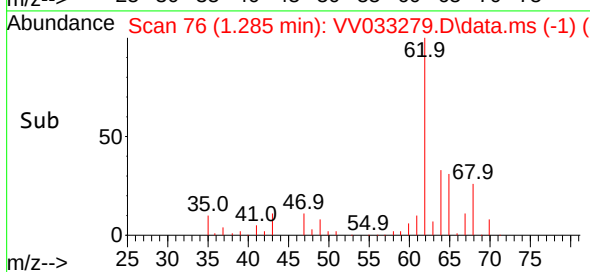
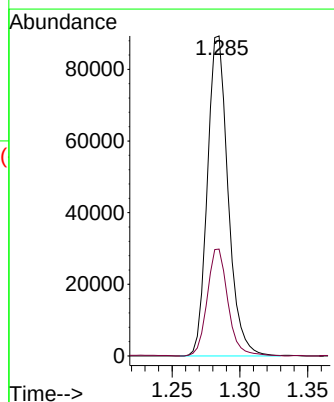
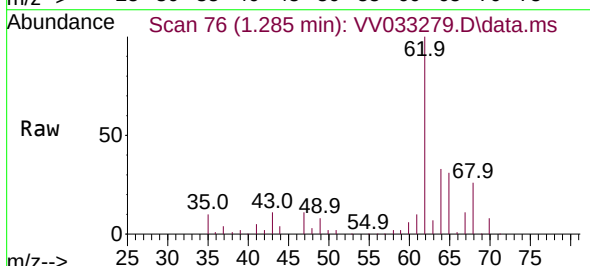
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

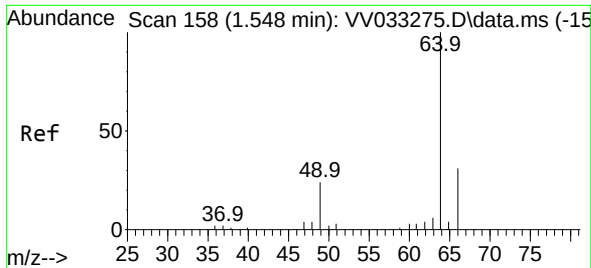
Tgt Ion: 50 Resp: 1022
Ion Ratio Lower Upper
50 100
52 30.6 23.8 44.2



#5
Vinyl chloride
Concen: 9.462 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.003 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 62 Resp: 94768
Ion Ratio Lower Upper
62 100
64 33.4 23.0 42.8





#8

Chloroethane

Concen: 5.498 ug/L

RT: 1.285 min Scan# 70

Delta R.T. -0.264 min

Lab File: VV033279.D

Acq: 13 Dec 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

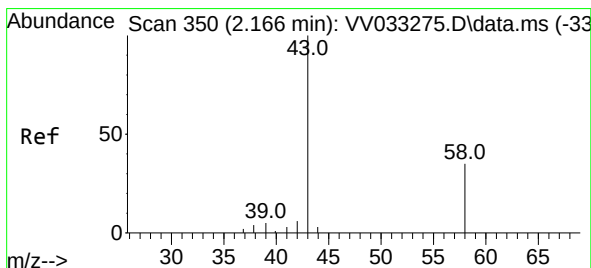
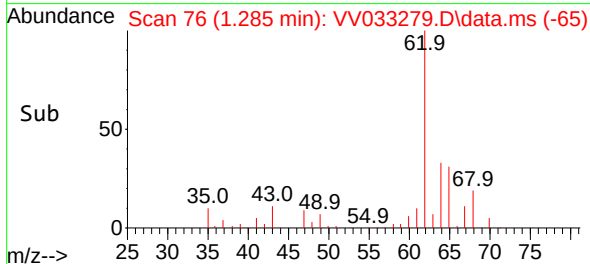
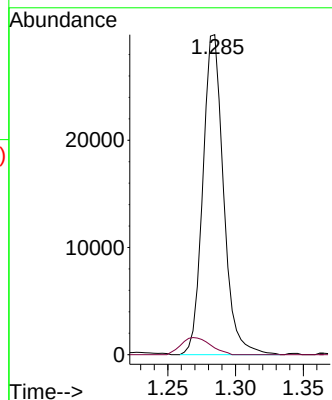
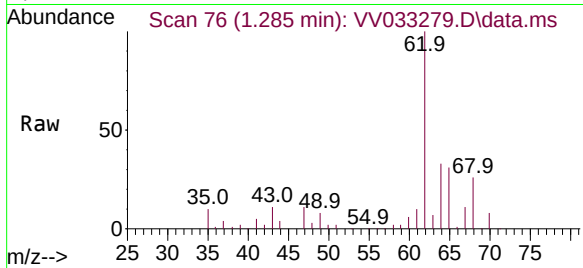
E0Y51

Tgt Ion: 64 Resp: 31769

Ion Ratio Lower Upper

64 100

66 2.1 22.9 42.5#



#13

Acetone

Concen: 159.074 ug/L

RT: 2.124 min Scan# 337

Delta R.T. -0.042 min

Lab File: VV033279.D

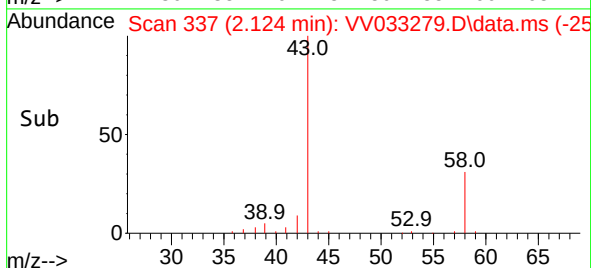
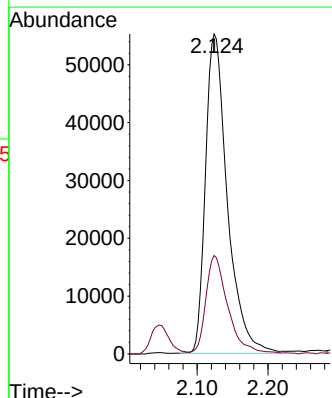
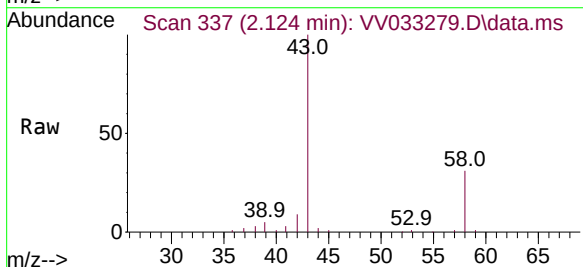
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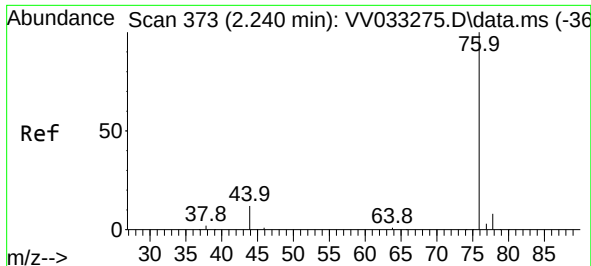
Tgt Ion: 43 Resp: 118518

Ion Ratio Lower Upper

43 100

58 31.3 0.0 30.2#

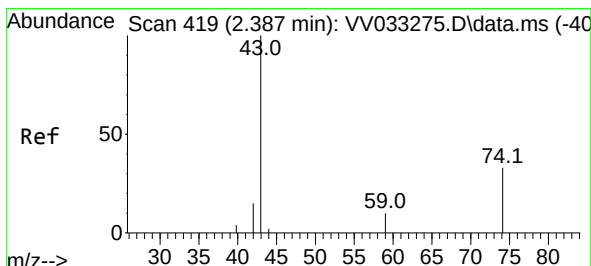
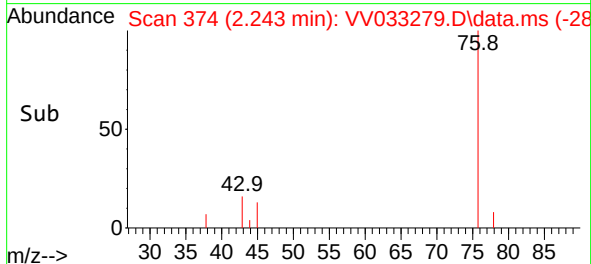
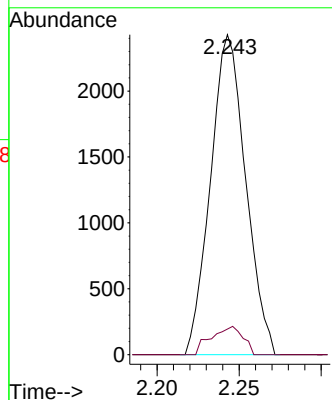
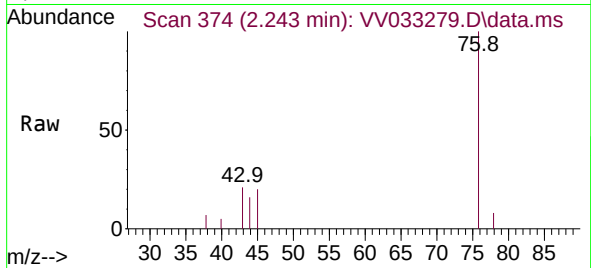




#14
Carbon disulfide
Concen: 0.140 ug/L
RT: 2.243 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

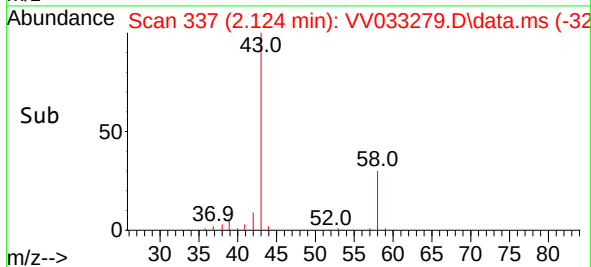
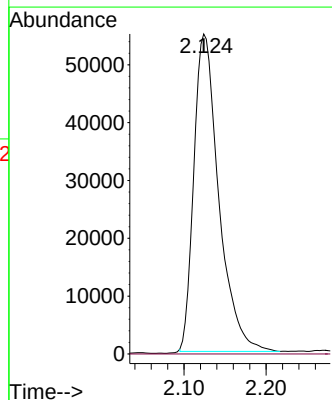
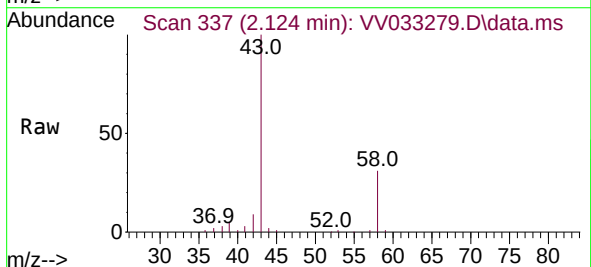
Instrument :
MSVOA_V
ClientSampleId :
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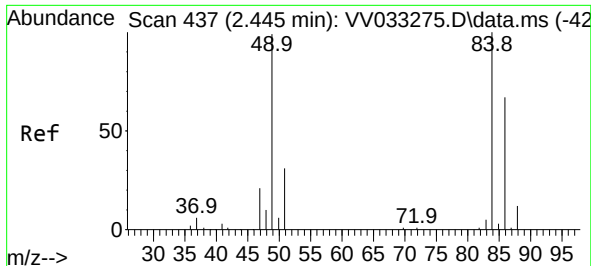
Tgt Ion: 76 Resp: 3611
Ion Ratio Lower Upper
76 100
78 8.0 7.4 11.0



#15
Methyl Acetate
Concen: 58.659 ug/L
RT: 2.124 min Scan# 337
Delta R.T. -0.264 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 43 Resp: 115824
Ion Ratio Lower Upper
43 100
74 0.0 21.0 31.6#

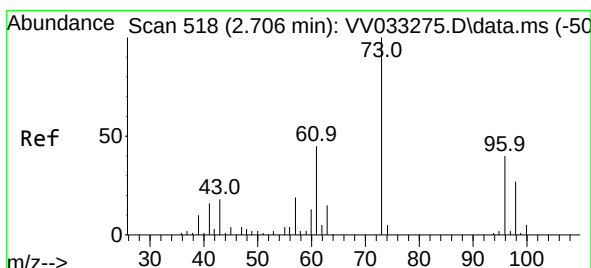
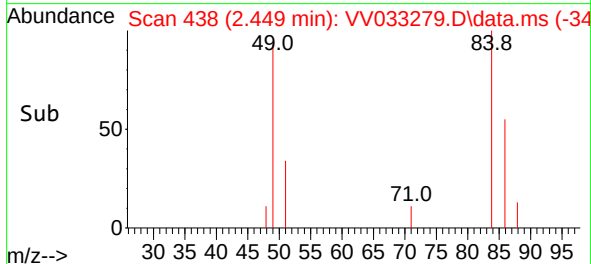
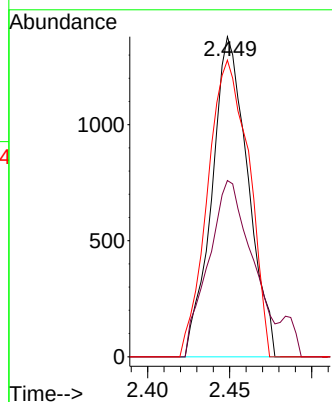
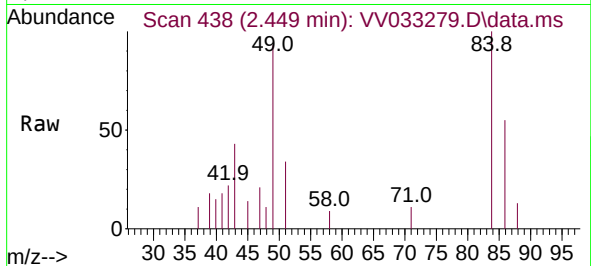




#16
Methylene chloride
Concen: 0.230 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

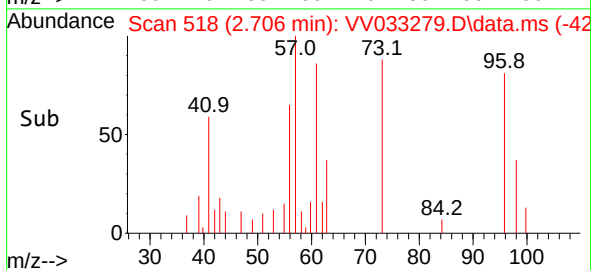
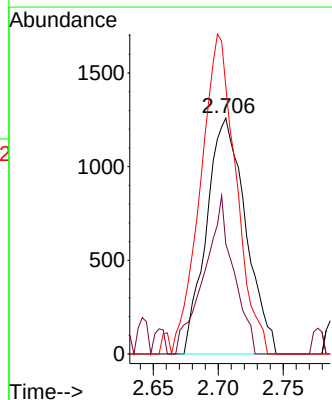
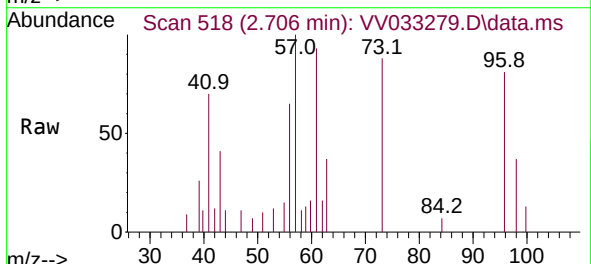
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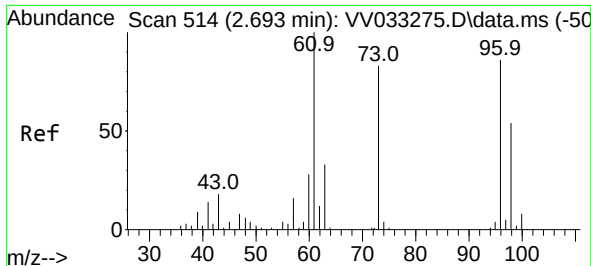
Tgt Ion: 84 Resp: 2105
Ion Ratio Lower Upper
84 100
86 55.0 47.5 88.1
49 92.7 68.9 127.9



#17
Methyl tert-butyl Ether
Concen: 0.161 ug/L
RT: 2.706 min Scan# 518
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 73 Resp: 2638
Ion Ratio Lower Upper
73 100
43 50.6 16.0 24.0#
57 123.0 15.6 23.4#

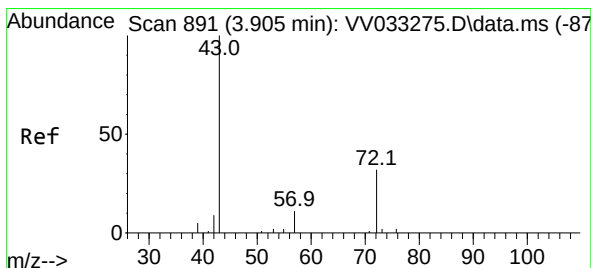
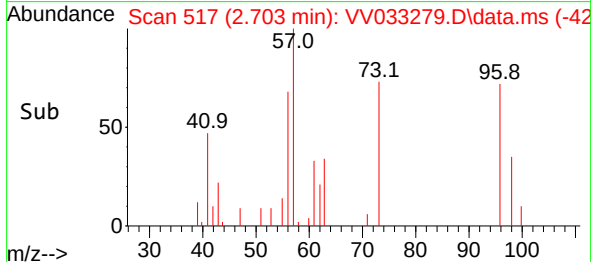
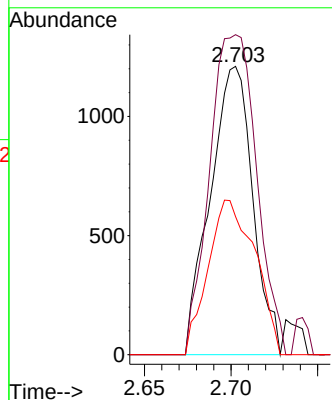
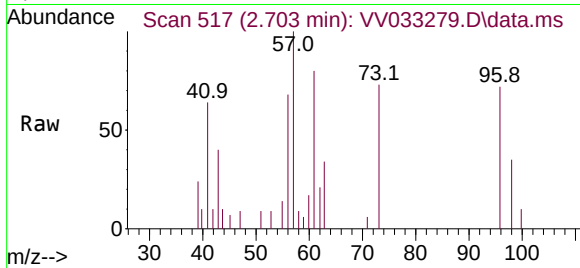




#18
trans-1,2-Dichloroethene
Concen: 0.215 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.010 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

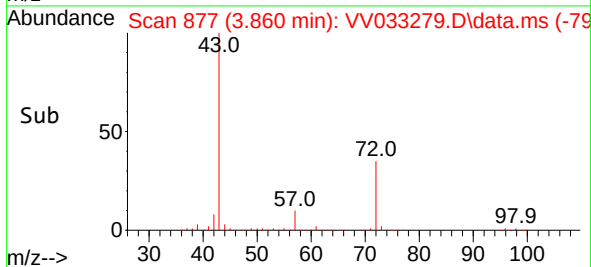
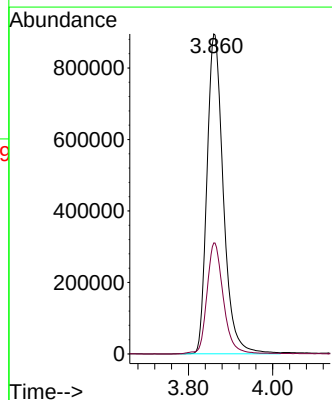
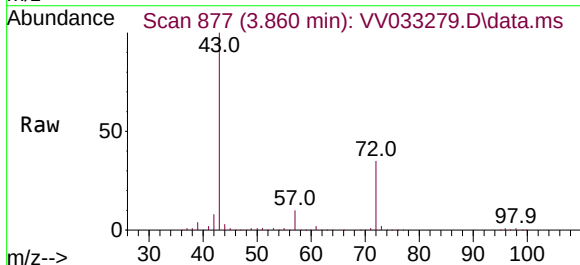
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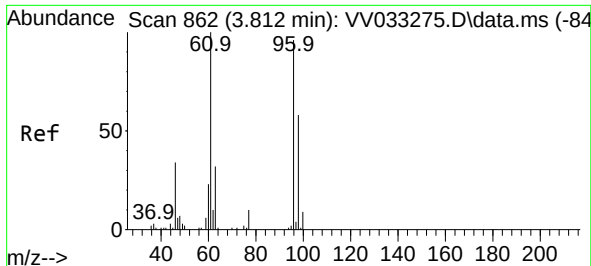
Tgt Ion: 96 Resp: 2066
Ion Ratio Lower Upper
96 100
61 111.0 84.6 157.2
98 47.9 46.7 86.7



#21
2-Butanone
Concen: 2221.241 ug/L
RT: 3.860 min Scan# 877
Delta R.T. -0.045 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 43 Resp: 2410908
Ion Ratio Lower Upper
43 100
72 35.1 14.8 44.3

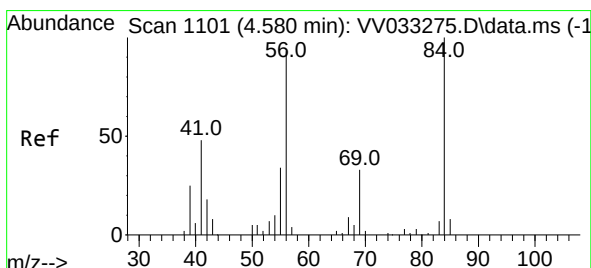
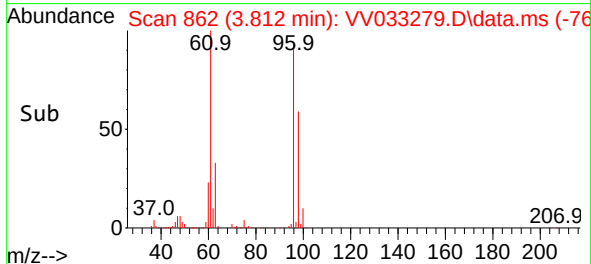
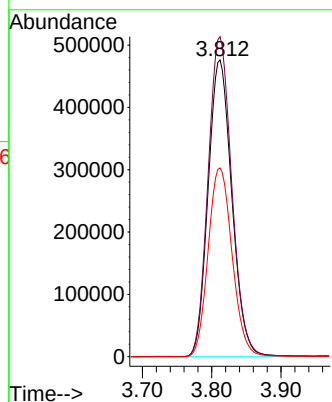
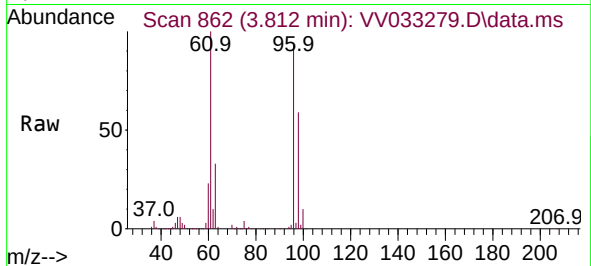




#22
 cis-1,2-Dichloroethene
 Concen: 113.754 ug/L
 RT: 3.812 min Scan# 862
 Delta R.T. 0.000 min
 Lab File: VV033279.D
 Acq: 13 Dec 2023 16:23

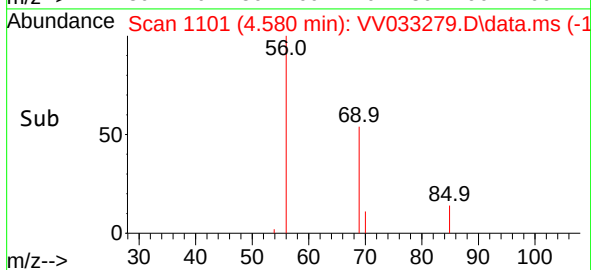
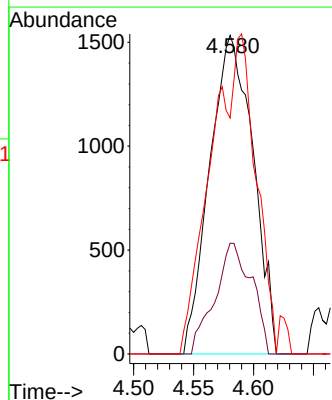
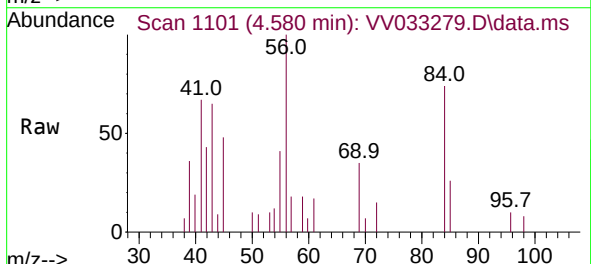
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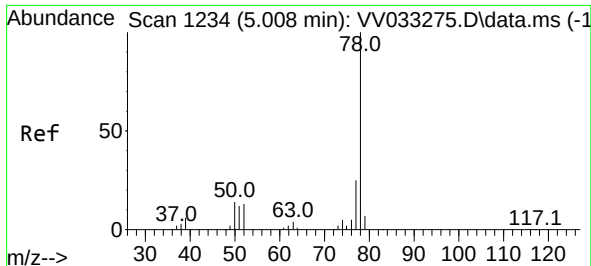
Tgt Ion: 96 Resp: 1130418
 Ion Ratio Lower Upper
 96 100
 61 107.8 69.9 129.9
 98 63.6 42.4 78.8



#30
 Cyclohexane
 Concen: 0.325 ug/L
 RT: 4.580 min Scan# 1101
 Delta R.T. 0.000 min
 Lab File: VV033279.D
 Acq: 13 Dec 2023 16:23

Tgt Ion: 56 Resp: 3854
 Ion Ratio Lower Upper
 56 100
 69 29.5 28.8 43.2
 84 50.0 86.2 129.4

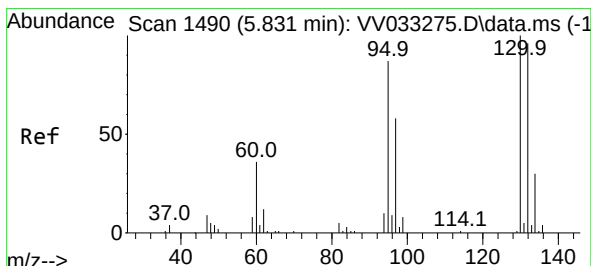
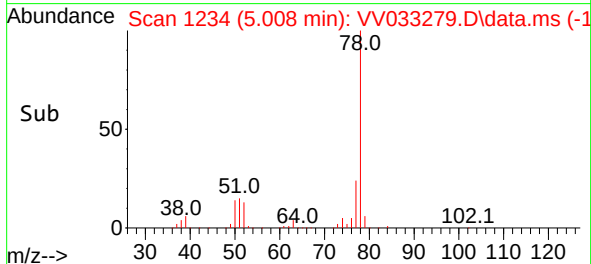
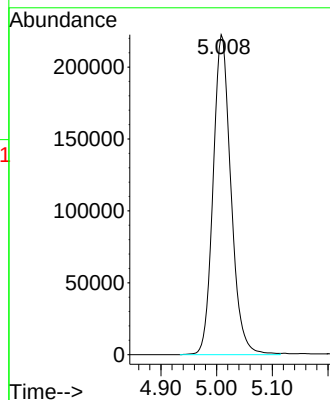
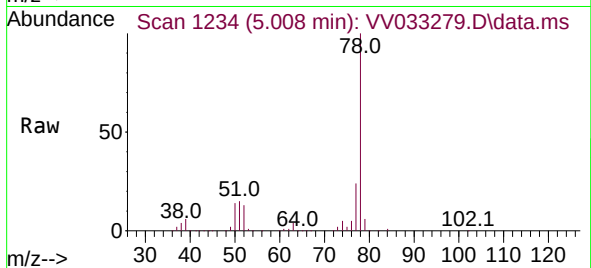




#33
Benzene
Concen: 13.820 ug/L
RT: 5.008 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
E0Y51

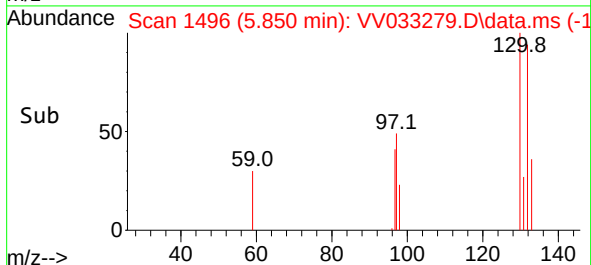
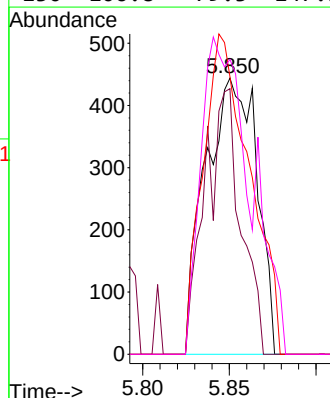
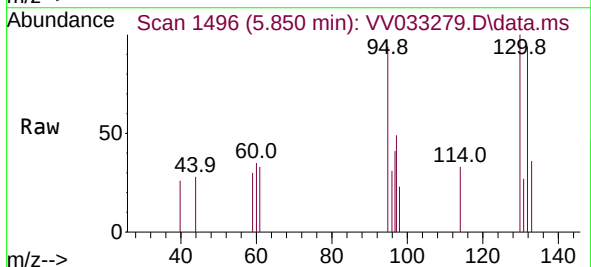
Tgt Ion: 78 Resp: 495578

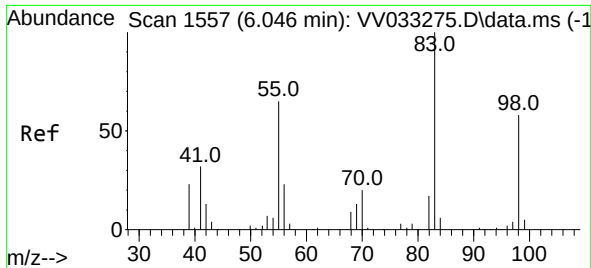


#34
Trichloroethene
Concen: 0.088 ug/L
RT: 5.850 min Scan# 1496
Delta R.T. 0.019 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 95 Resp: 918

Ion	Ratio	Lower	Upper
95	100		
97	96.2	46.5	86.5
132	100.5	75.1	139.5
130	106.8	79.3	147.3

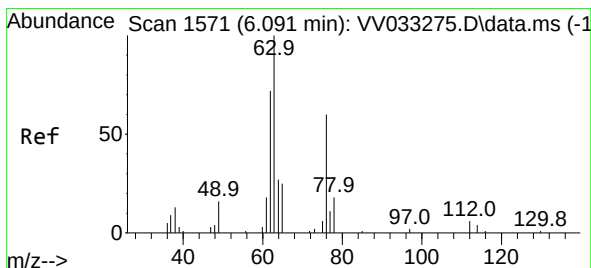
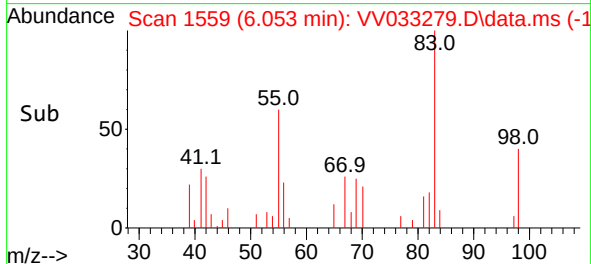
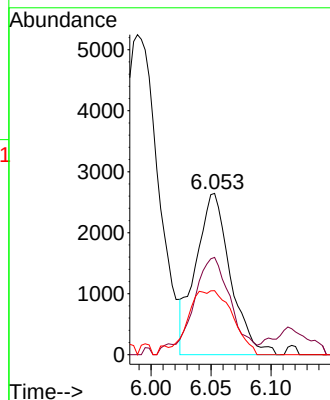
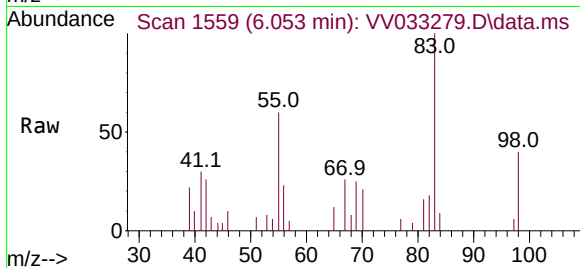




#35
Methylcyclohexane
Concen: 0.344 ug/L
RT: 6.053 min Scan# 1559
Delta R.T. 0.006 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

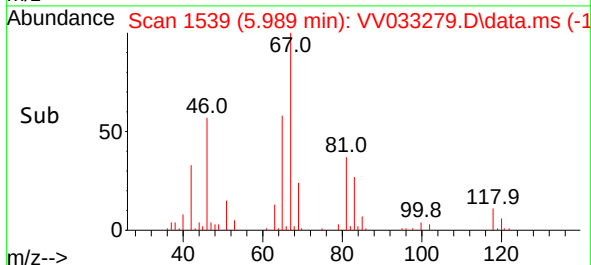
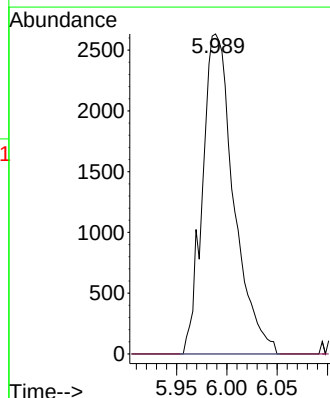
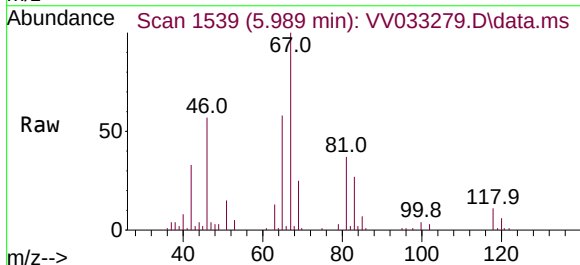
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

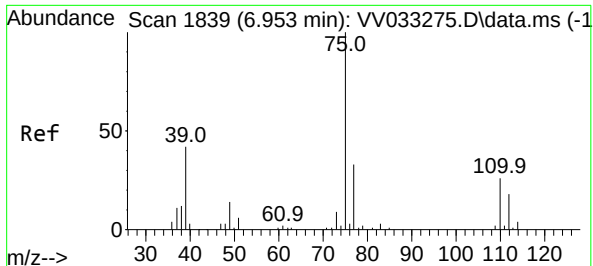
Tgt Ion:	83	Resp:	5324
Ion	Ratio	Lower	Upper
83	100		
55	65.4	50.7	76.1
98	50.2	42.4	63.6



#37
1,2-Dichloropropane
Concen: 0.790 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.103 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion:	63	Resp:	5696
Ion	Ratio	Lower	Upper
63	100		
112	0.4	5.0	7.6#





#39

cis-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 6.911 min Scan# 11

Delta R.T. -0.042 min

Lab File: VV033279.D

Acq: 13 Dec 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

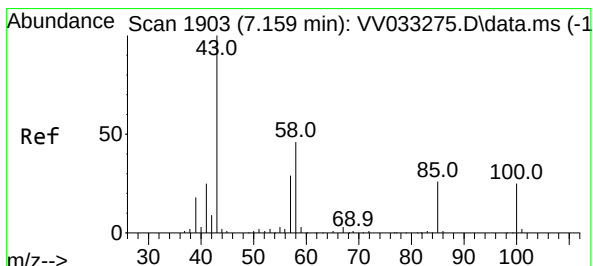
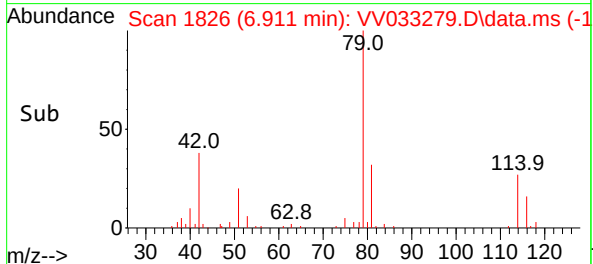
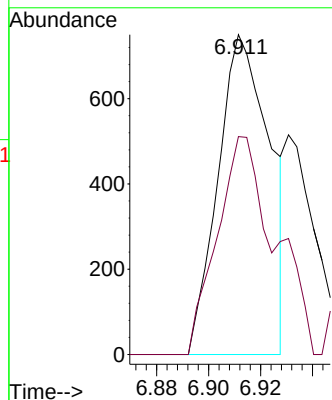
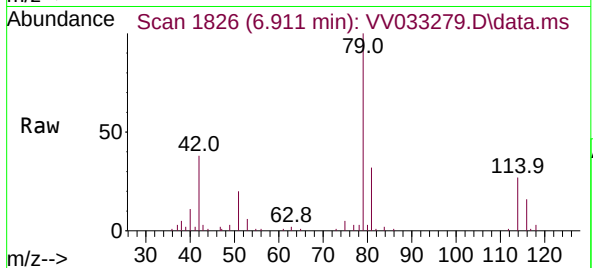
E0Y51

Tgt Ion: 75 Resp: 1032

Ion Ratio Lower Upper

75 100

77 68.1 22.1 41.1#



#40

4-Methyl-2-pentanone

Concen: 773.435 ug/L

RT: 7.156 min Scan# 1902

Delta R.T. -0.003 min

Lab File: VV033279.D

Acq: 13 Dec 2023 16:23

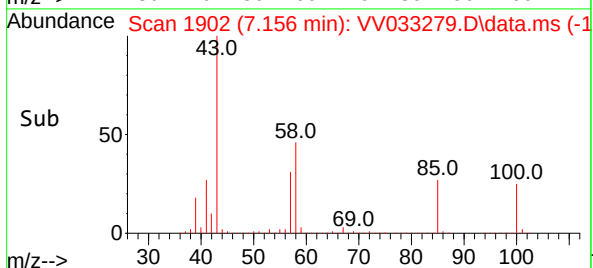
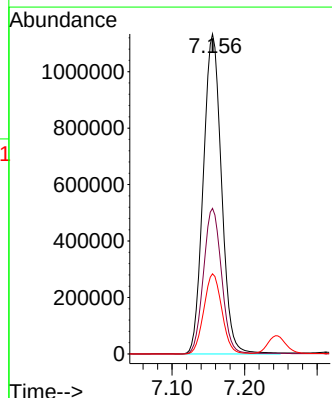
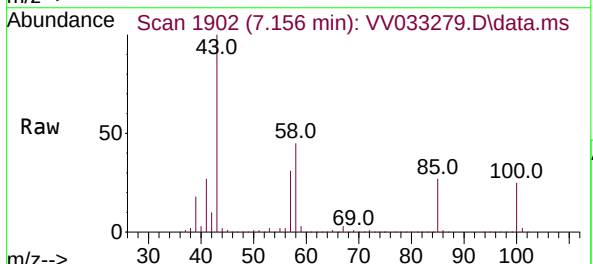
Tgt Ion: 43 Resp: 1974068

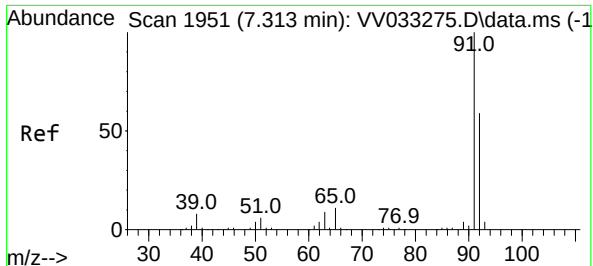
Ion Ratio Lower Upper

43 100

58 45.4 36.2 54.2

100 24.9 18.8 28.2

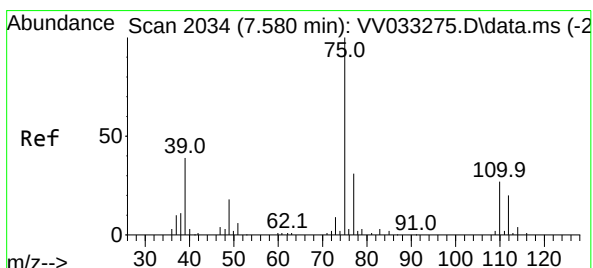
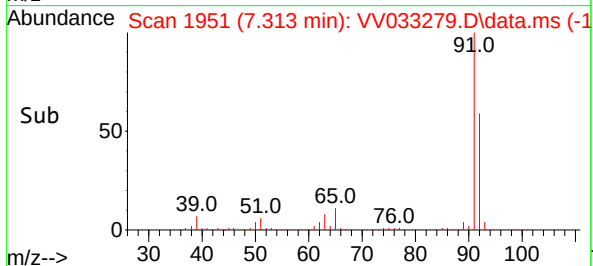
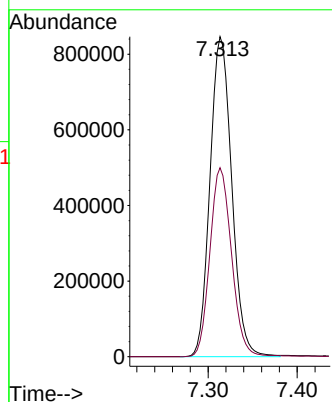
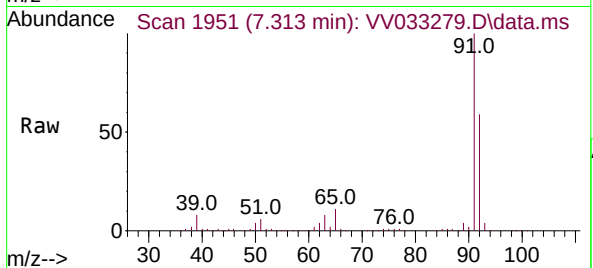




#42
Toluene
Concen: 34.910 ug/L
RT: 7.313 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

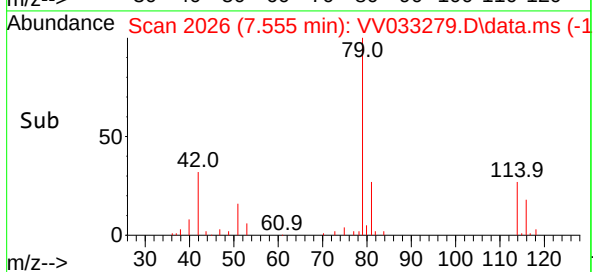
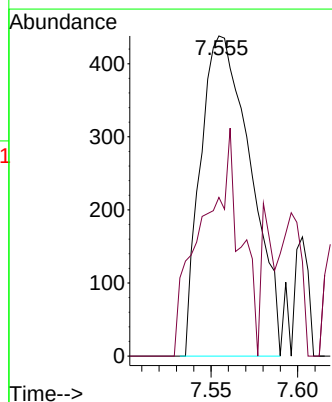
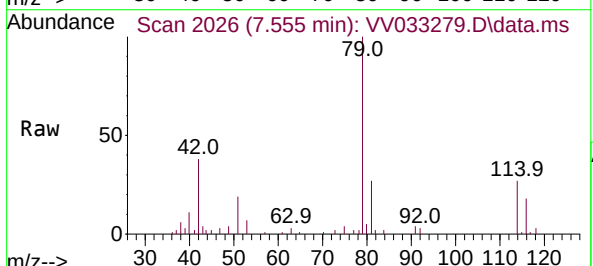
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

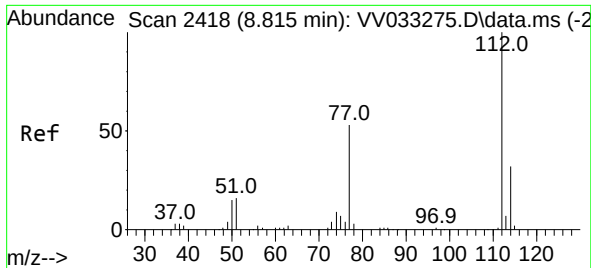
Tgt Ion: 91 Resp: 1433986
Ion Ratio Lower Upper
91 100
92 59.0 40.2 74.6



#44
trans-1,3-Dichloropropene
Concen: 0.090 ug/L
RT: 7.555 min Scan# 2026
Delta R.T. -0.026 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 75 Resp: 881
Ion Ratio Lower Upper
75 100
77 49.5 21.7 40.3#

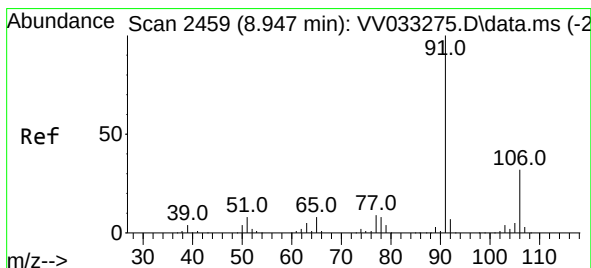
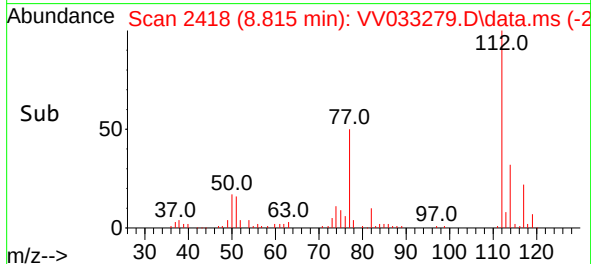
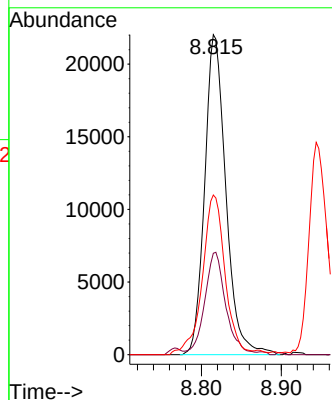
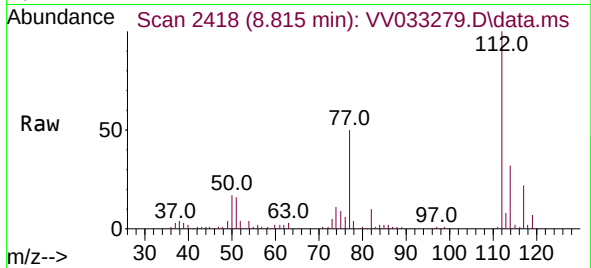




#51
Chlorobenzene
Concen: 1.447 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

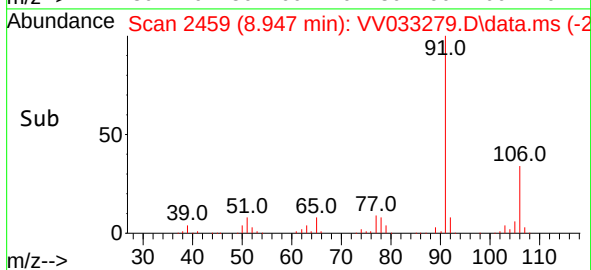
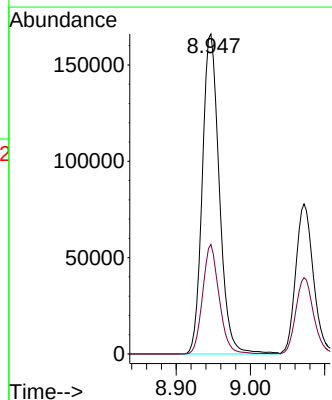
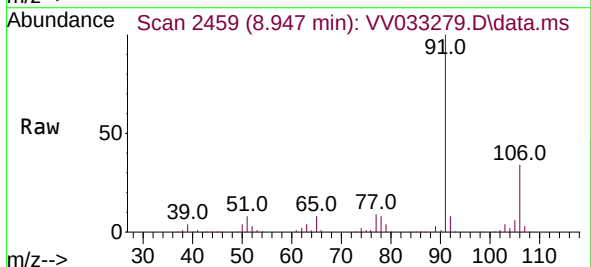
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

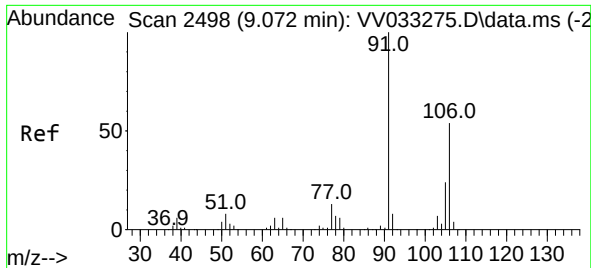
Tgt Ion:112 Resp: 40713
Ion Ratio Lower Upper
112 100
114 31.7 22.8 42.4
77 49.9 41.3 61.9



#52
Ethylbenzene
Concen: 5.745 ug/L
RT: 8.947 min Scan# 2459
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 91 Resp: 264370
Ion Ratio Lower Upper
91 100
106 34.2 22.7 42.3

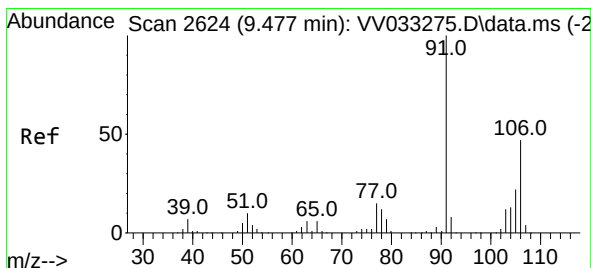
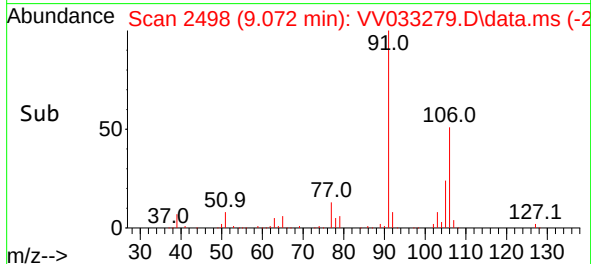
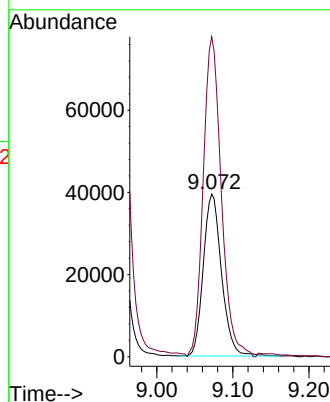
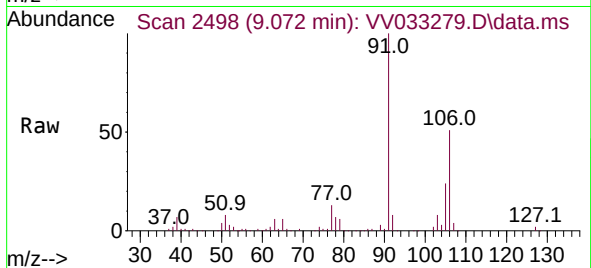




#53
m,p-Xylene
Concen: 3.469 ug/L
RT: 9.072 min Scan# 2498
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

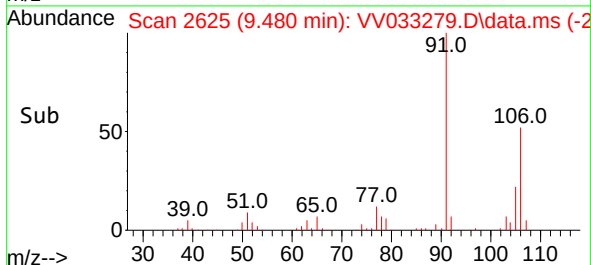
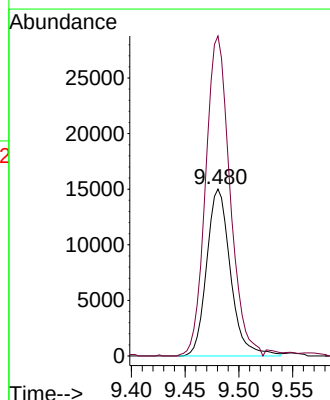
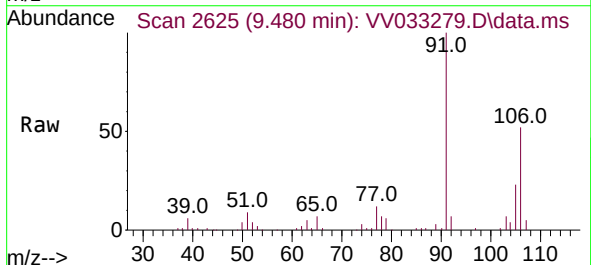
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

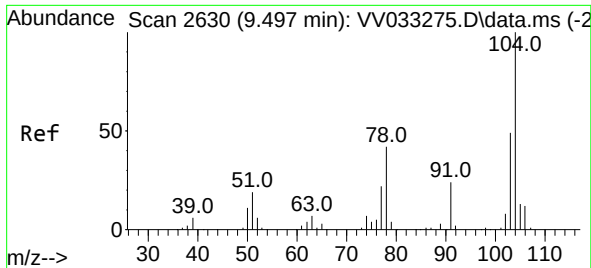
Tgt Ion:106 Resp: 65709
Ion Ratio Lower Upper
106 100
91 196.7 136.8 254.0



#54
o-Xylene
Concen: 1.288 ug/L
RT: 9.480 min Scan# 2625
Delta R.T. 0.003 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion:106 Resp: 23111
Ion Ratio Lower Upper
106 100
91 191.7 149.9 278.5

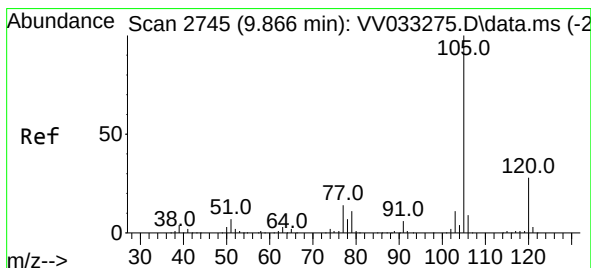
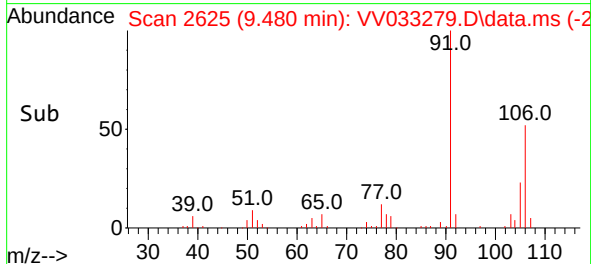
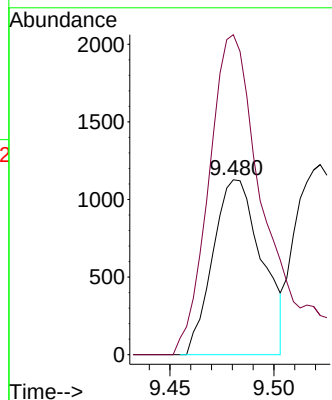
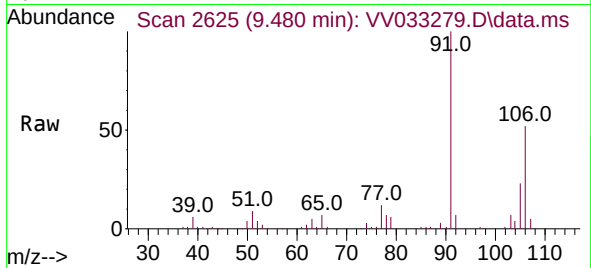




#55
Styrene
Concen: 0.063 ug/L
RT: 9.480 min Scan# 2630
Delta R.T. -0.016 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

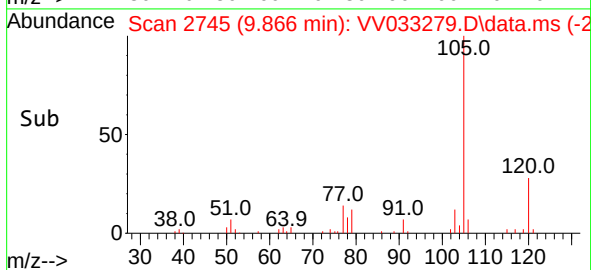
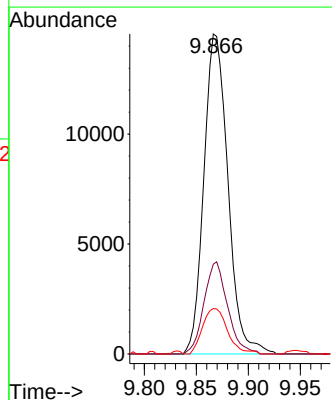
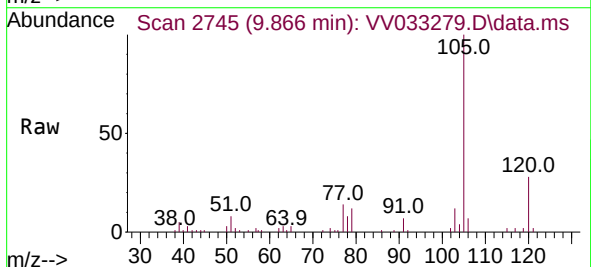
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

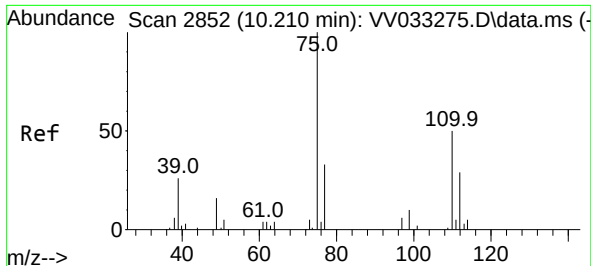
Tgt Ion:104 Resp: 1840
Ion Ratio Lower Upper
104 100
78 183.0 29.9 55.5#



#60
Isopropylbenzene
Concen: 0.470 ug/L
RT: 9.866 min Scan# 2745
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion:105 Resp: 23417
Ion Ratio Lower Upper
105 100
120 28.2 22.2 33.4
77 14.8 11.6 17.4

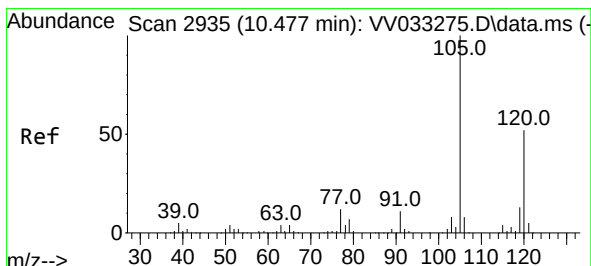
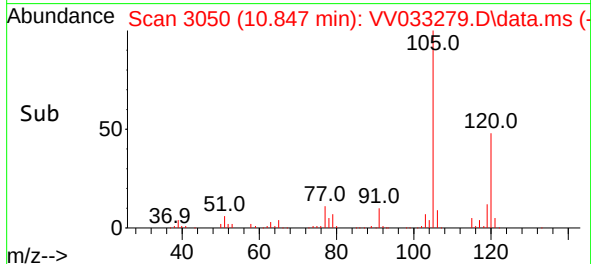
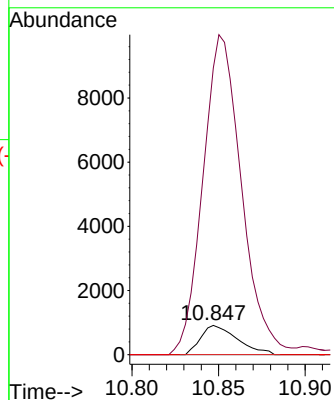
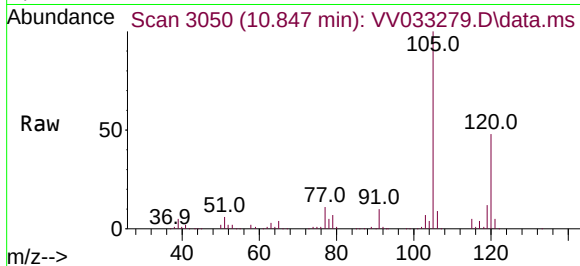




#61
1,2,3-Trichloropropane
Concen: 0.336 ug/L
RT: 10.847 min Scan# 3050
Delta R.T. 0.637 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

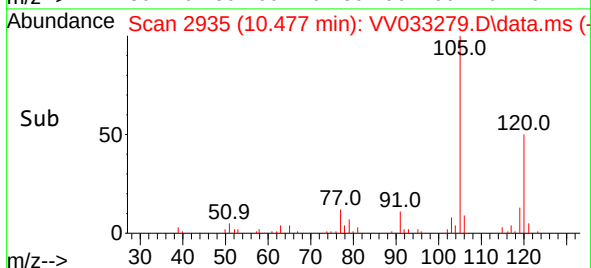
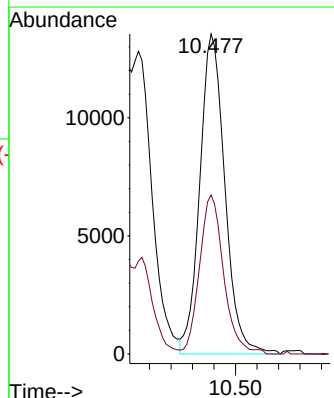
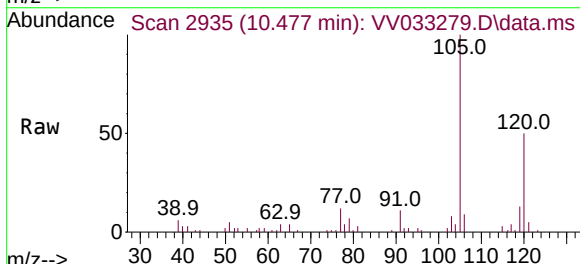
Instrument :
MSVOA_V
ClientSampleId :
E0Y51

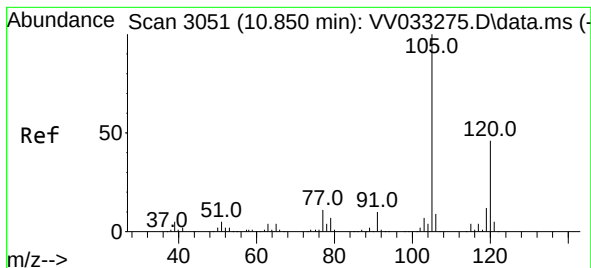
Tgt Ion: 75 Resp: 1341
Ion Ratio Lower Upper
75 100
77 1153.7 27.4 41.2#
110 0.0 39.4 59.2#



#62
1,3,5-Trimethylbenzene
Concen: 0.539 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion: 105 Resp: 21957
Ion Ratio Lower Upper
105 100
120 47.9 41.7 62.5





#63

1,2,4-Trimethylbenzene

Concen: 3.457 ug/L

RT: 10.850 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VV033279.D

Acq: 13 Dec 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

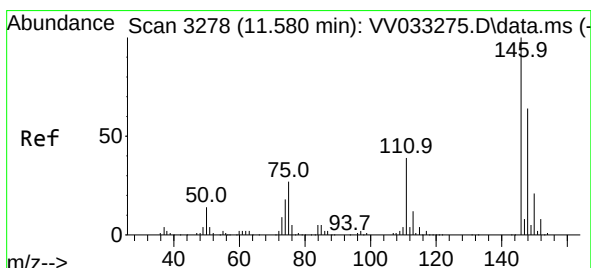
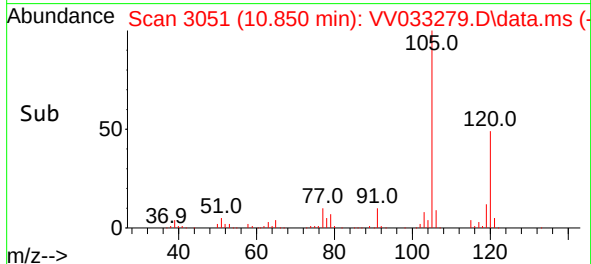
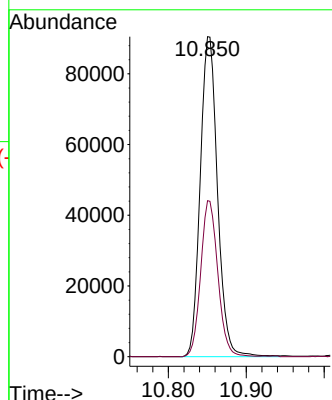
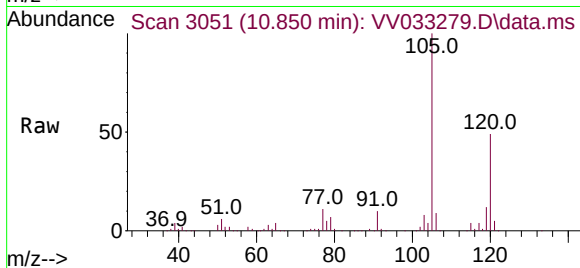
E0Y51

Tgt Ion:105 Resp: 139356

Ion Ratio Lower Upper

105 100

120 48.3 38.1 57.1



#67

1,2-Dichlorobenzene

Concen: 1.828 ug/L

RT: 11.580 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VV033279.D

Acq: 13 Dec 2023 16:23

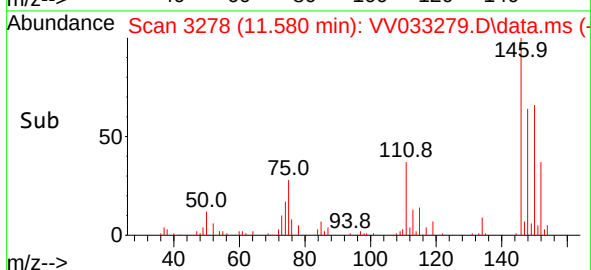
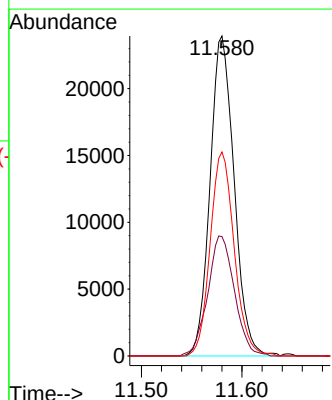
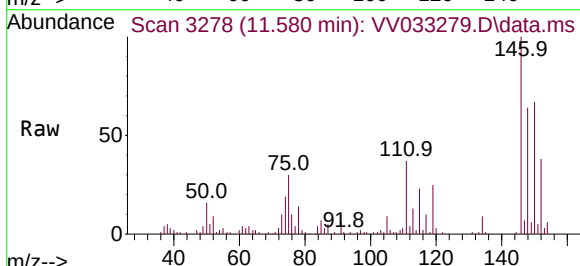
Tgt Ion:146 Resp: 39838

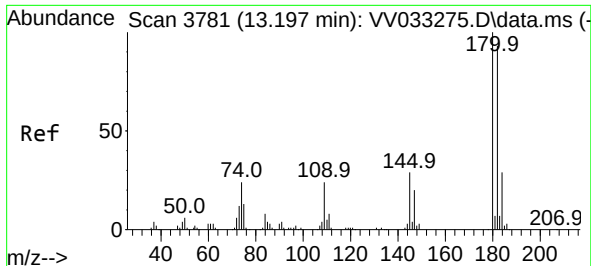
Ion Ratio Lower Upper

146 100

111 37.3 31.0 46.4

148 63.7 52.6 79.0

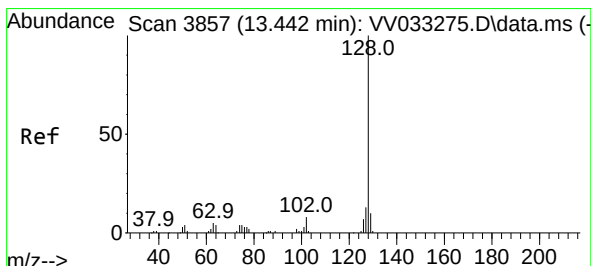
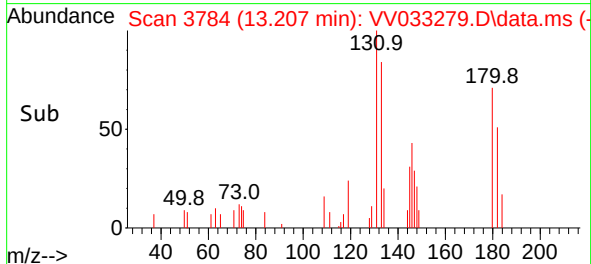
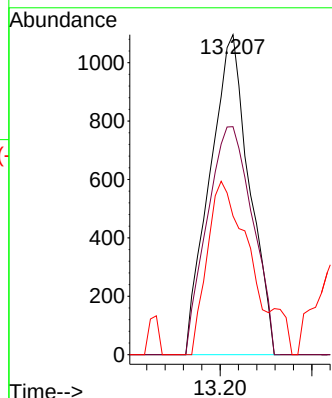
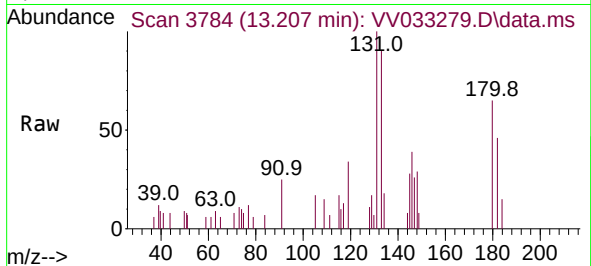




#70
1,2,4-trichlorobenzene
Concen: 0.105 ug/L
RT: 13.207 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
E0Y51

Tgt Ion:180 Resp: 1635
Ion Ratio Lower Upper
180 100
182 82.1 74.2 111.4
145 55.8 22.6 34.0#



#71
Naphthalene
Concen: 2.095 ug/L
RT: 13.442 min Scan# 3857
Delta R.T. 0.000 min
Lab File: VV033279.D
Acq: 13 Dec 2023 16:23

Tgt Ion:128 Resp: 37848
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 11.4 10.1 15.1

