

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU103124\
 Data File : VU061313.D
 Acq On : 31 Oct 2024 15:51
 Operator : MD/SY
 Sample : P4629-21DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 01 00:00:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 31 23:55:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	173592	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	160102	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	75301	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	59605	5.055	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.000%
7) Chloroethane-d5	1.907	69	57230	5.294	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.800%
11) 1,1-Dichloroethene-d2	2.560	65	25472	5.049	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.000%
20) 2-Butanone-d5	4.624	46	122640	51.225	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.440%
24) Chloroform-d	5.055	84	114696	5.124	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
26) 1,2-Dichloroethane-d4	5.692	65	60047	5.382	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.600%
32) Benzene-d6	5.718	84	243718	5.403	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.000%
36) 1,2-Dichloropropane-d6	6.682	67	73550	5.423	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.400%
41) Toluene-d8	7.891	98	218865	5.189	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.800%
43) trans-1,3-Dichloroprop...	8.174	79	27434	4.955	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.200%
46) 2-Hexanone-d5	8.627	63	113839	50.204	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.400%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	51527	5.024	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	71643	5.373	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.400%

Target Compounds					Qvalue
5) Vinyl chloride	1.602	62	178000	13.266	ug/L 99
12) 1,1-Dichloroethene	2.576	96	47121	4.591	ug/L 93
16) Methylene chloride	3.039	84	55334	4.575	ug/L 98
18) trans-1,2-Dichloroethene	3.348	96	38968	3.434	ug/L 96
22) cis-1,2-Dichloroethene	4.657	96	61939	4.778	ug/L 98
27) 1,2-Dichloroethane	5.785	62	82532	5.803	ug/L 100
29) 1,1,1-Trichloroethane	5.306	97	133458	6.807	ug/L 98
31) Carbon tetrachloride	5.515	117	48966	2.919	ug/L 99
33) Benzene	5.766	78	310723	6.275	ug/L 100
34) Trichloroethene	6.538	95	20665	1.534	ug/L 97
35) Methylcyclohexane	6.682	83	16446	0.767	ug/L # 22
37) 1,2-Dichloropropane	6.782	63	88619	7.061	ug/L 100
42) Toluene	7.962	91	248117	4.614	ug/L 100
45) 1,1,2-Trichloroethane	8.393	97	18204	2.016	ug/L 96
47) Tetrachloroethene	8.547	164	61031	6.488	ug/L 100
49) Dibromochloromethane	8.547	129	61261	5.980	ug/L # 12
51) Chlorobenzene	9.441	112	176173	5.184	ug/L 99
52) Ethylbenzene	9.563	91	383528	6.484	ug/L 100
53) m,p-Xylene	9.685	106	170860	7.583	ug/L 98

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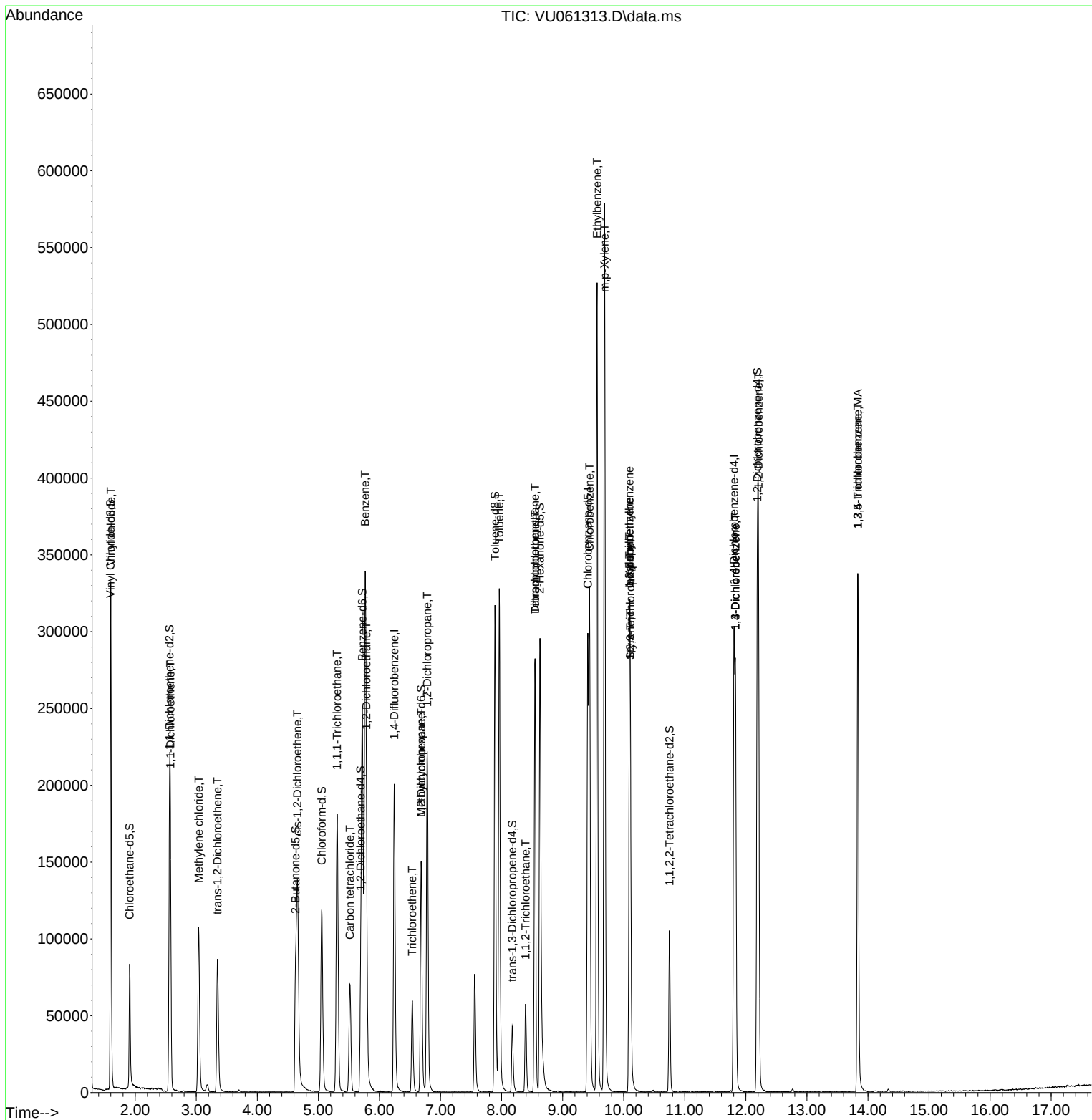
Instrument :
MSVOA_U
ClientSampleId :

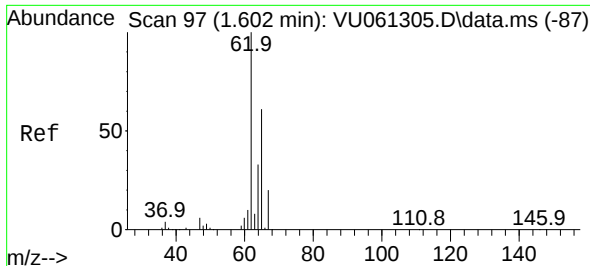
Quant Time: Nov 01 00:00:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102324WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Oct 31 23:55:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.094	106	65489	2.945	ug/L	99
55) Styrene	10.110	104	100528	2.820	ug/L	97
60) Isopropylbenzene	10.094	105	35234	0.613	ug/L #	1
61) 1,2,3-Trichloropropane	10.110	75	5991	0.799	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.094	105	35234	0.752	ug/L #	29
64) 1,3-Dichlorobenzene	11.830	146	102381	4.229	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	102381	4.148	ug/L	100
67) 1,2-Dichlorobenzene	12.206	146	131733	5.781	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	104825	6.316	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	104825	7.827	ug/L	98

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

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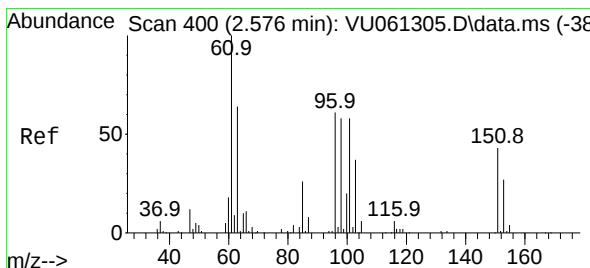
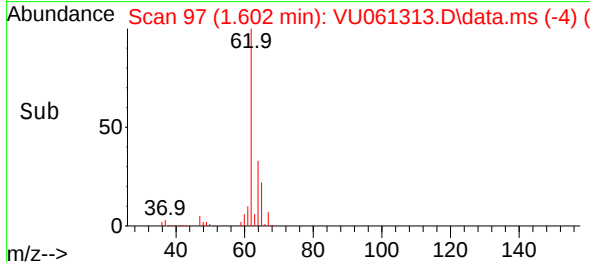
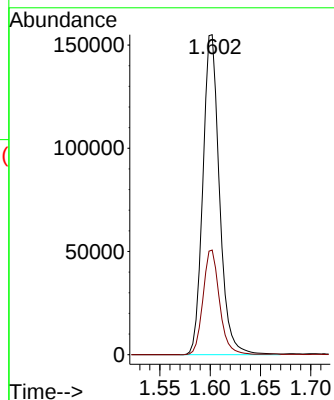
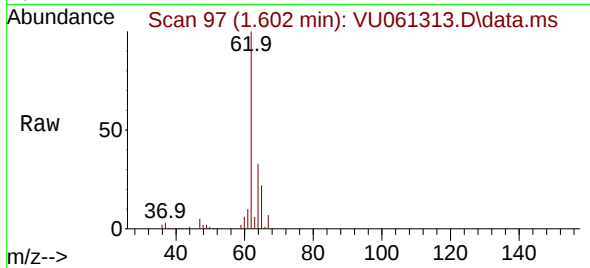




#5
 Vinyl chloride
 Concen: 13.266 ug/L
 RT: 1.602 min Scan# 97
 Delta R.T. -0.000 min
 Lab File: VU061313.D
 Acq: 31 Oct 2024 15:51

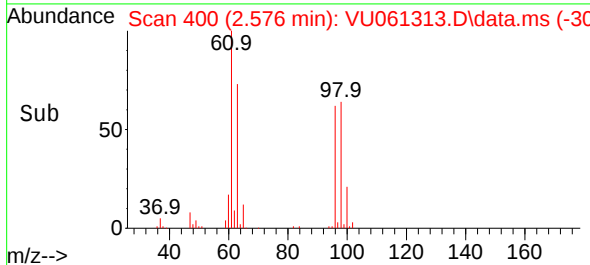
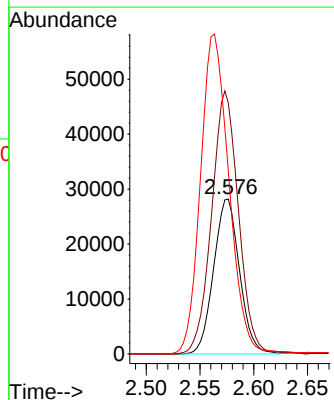
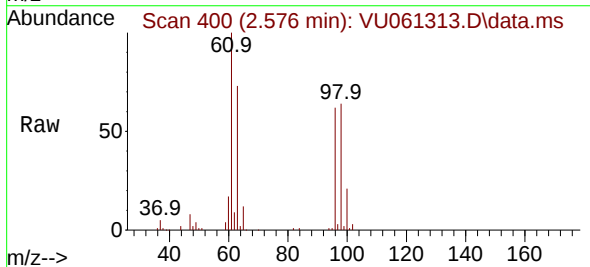
Instrument :
 MSVOA_U
 ClientSampleId :

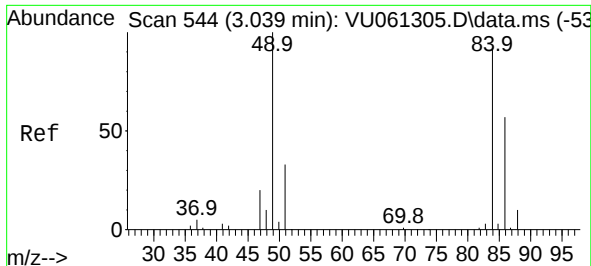
Tgt Ion: 62 Resp: 178000
 Ion Ratio Lower Upper
 62 100
 64 32.7 22.6 42.0



#12
 1,1-Dichloroethene
 Concen: 4.591 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: VU061313.D
 Acq: 31 Oct 2024 15:51

Tgt Ion: 96 Resp: 47121
 Ion Ratio Lower Upper
 96 100
 61 161.9 119.1 221.1
 63 118.0 89.4 166.0





#16

Methylene chloride

Concen: 4.575 ug/L

RT: 3.039 min Scan# 544

Delta R.T. -0.000 min

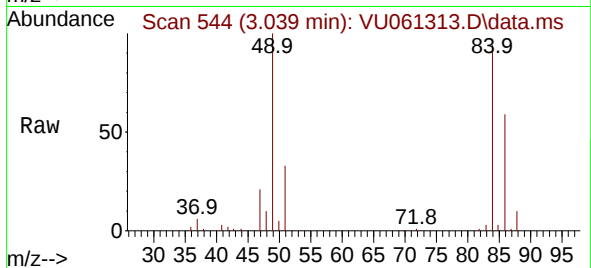
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Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

ClientSampleId :



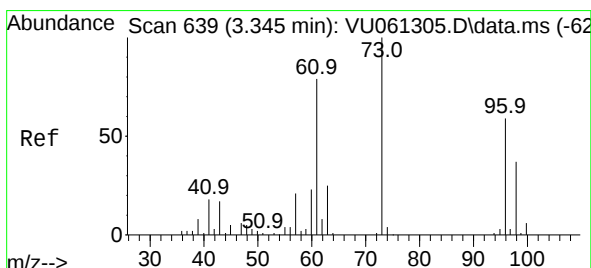
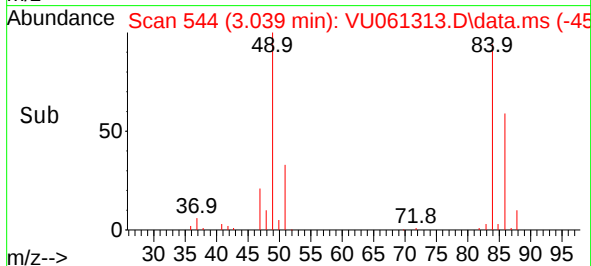
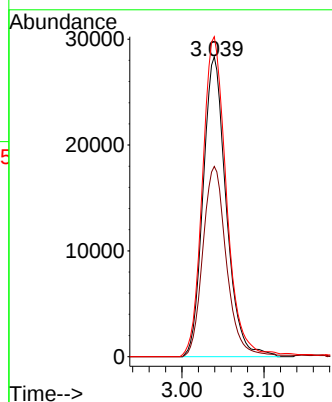
Tgt Ion: 84 Resp: 55334

Ion Ratio Lower Upper

84 100

86 63.5 43.5 80.7

49 106.7 75.7 140.7



#18

trans-1,2-Dichloroethene

Concen: 3.434 ug/L

RT: 3.348 min Scan# 640

Delta R.T. 0.003 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

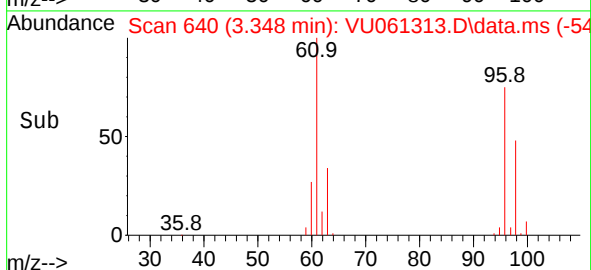
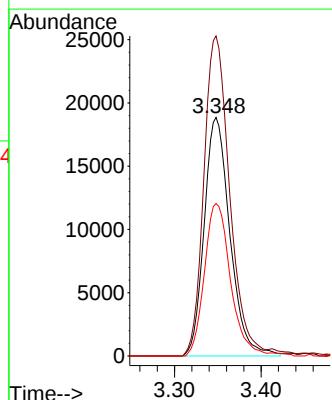
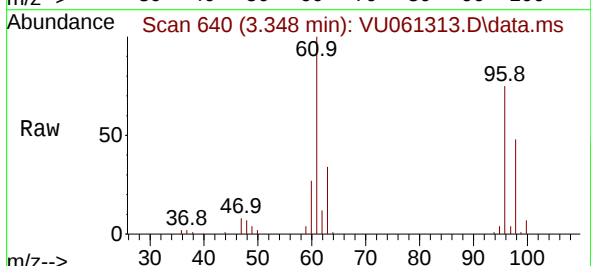
Tgt Ion: 96 Resp: 38968

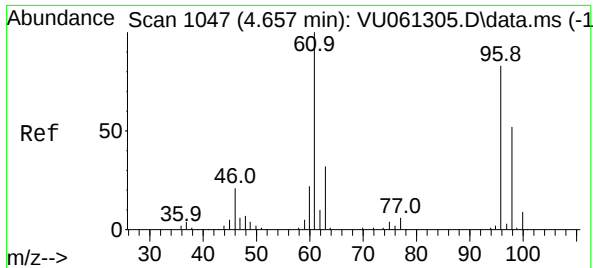
Ion Ratio Lower Upper

96 100

61 134.2 97.9 181.7

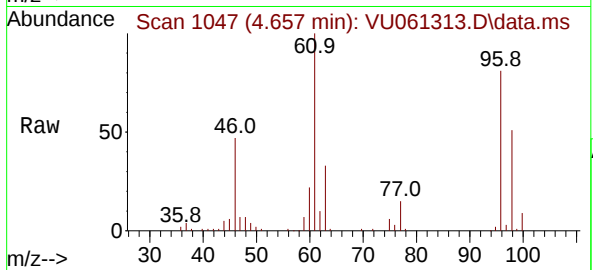
98 64.0 46.2 85.8



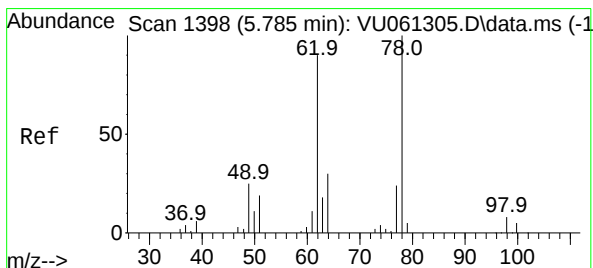
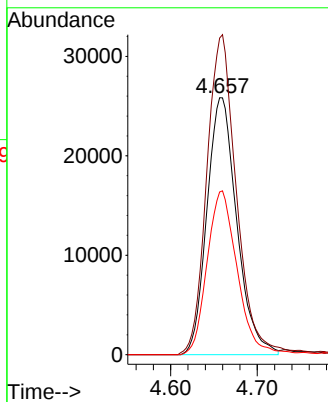
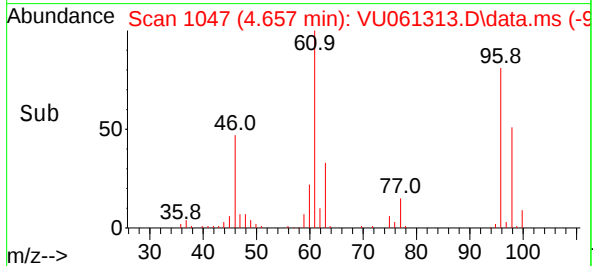


#22
 cis-1,2-Dichloroethene
 Concen: 4.778 ug/L
 RT: 4.657 min Scan# 1047
 Delta R.T. -0.000 min
 Lab File: VU061313.D
 Acq: 31 Oct 2024 15:51

Instrument :
 MSVOA_U
 ClientSampleId :

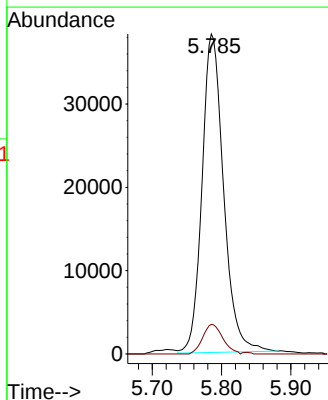
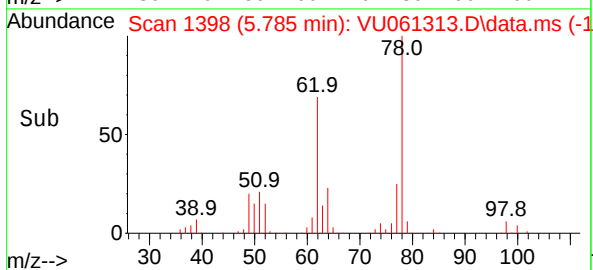
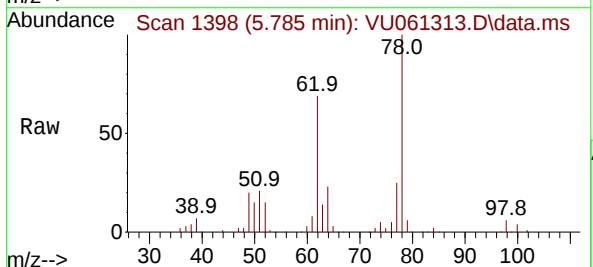


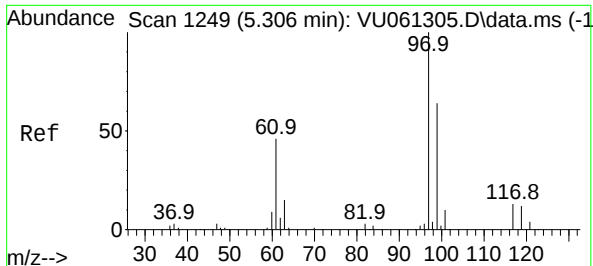
Tgt Ion:	96	Resp:	61939
Ion	Ratio	Lower	Upper
96	100		
61	123.2	88.1	163.5
98	63.3	45.0	83.6



#27
 1,2-Dichloroethane
 Concen: 5.803 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. -0.000 min
 Lab File: VU061313.D
 Acq: 31 Oct 2024 15:51

Tgt Ion:	62	Resp:	82532
Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.4	11.0

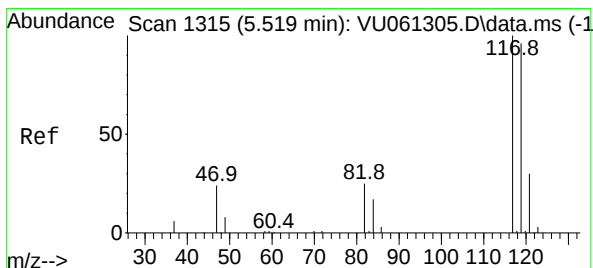
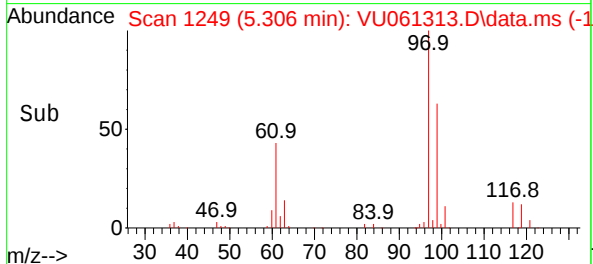
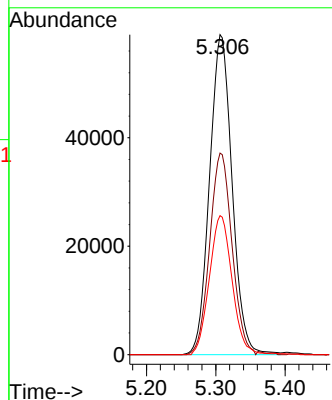
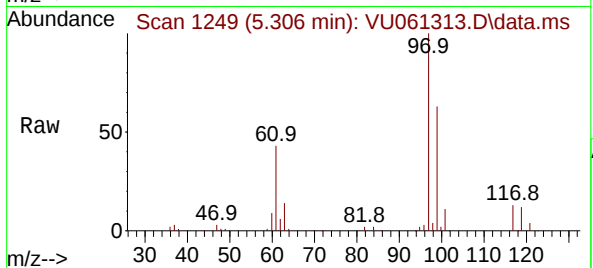




#29
1,1,1-Trichloroethane
Concen: 6.807 ug/L
RT: 5.306 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

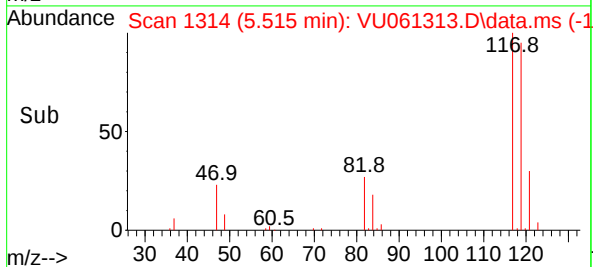
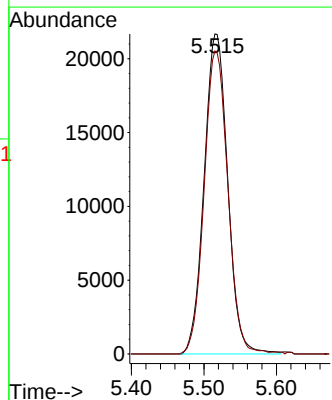
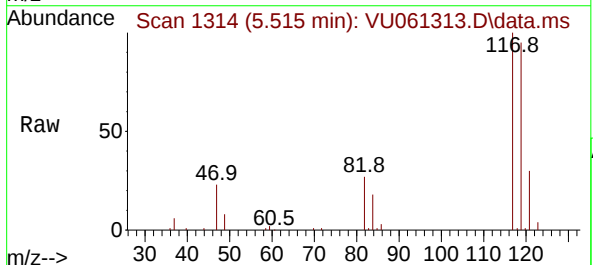
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MSVOA_U
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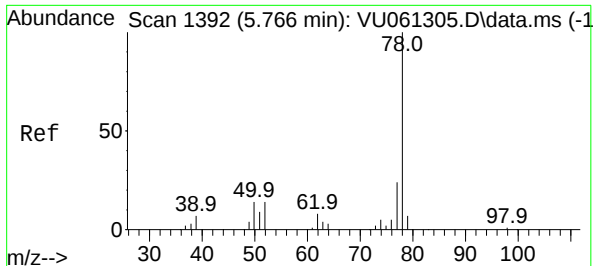
Tgt Ion: 97 Resp: 133458
Ion Ratio Lower Upper
97 100
99 62.4 50.8 76.2
61 43.7 36.1 54.1



#31
Carbon tetrachloride
Concen: 2.919 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. -0.003 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

Tgt Ion:117 Resp: 48966
Ion Ratio Lower Upper
117 100
119 95.1 75.5 113.3





#33

Benzene

Concen: 6.275 ug/L

RT: 5.766 min Scan# 1392

Delta R.T. -0.000 min

Lab File: VU061313.D

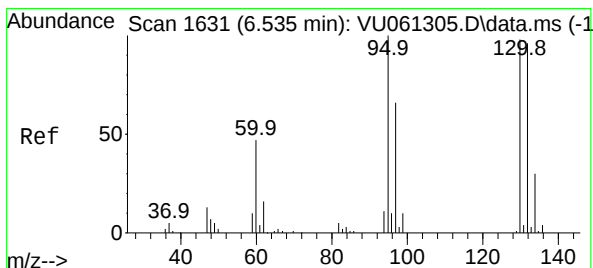
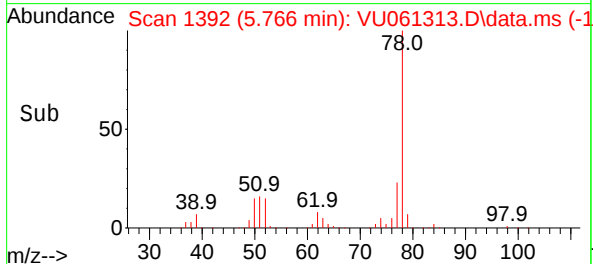
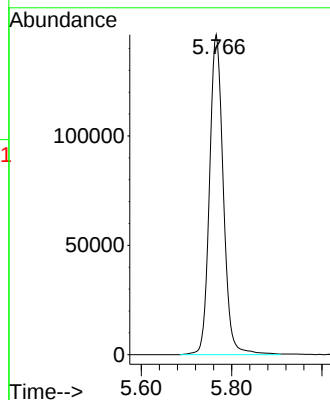
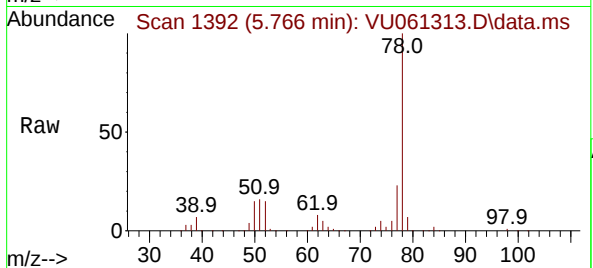
Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 310723



#34

Trichloroethene

Concen: 1.534 ug/L

RT: 6.538 min Scan# 1632

Delta R.T. 0.003 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Tgt Ion: 95 Resp: 20665

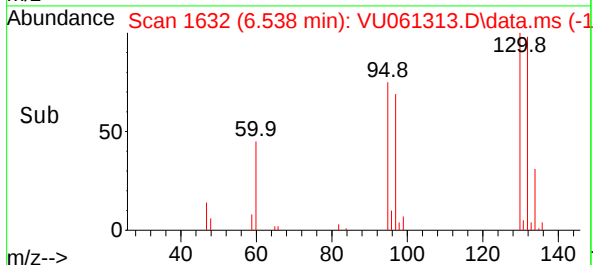
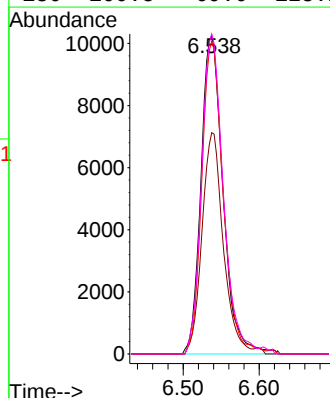
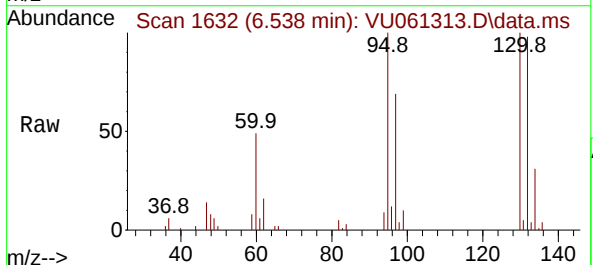
Ion Ratio Lower Upper

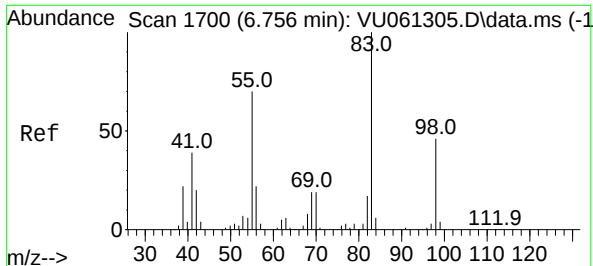
95 100

97 69.5 46.1 85.7

132 98.2 66.1 122.7

130 100.5 69.0 128.2





#35

Methylcyclohexane

Concen: 0.767 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU061313.D

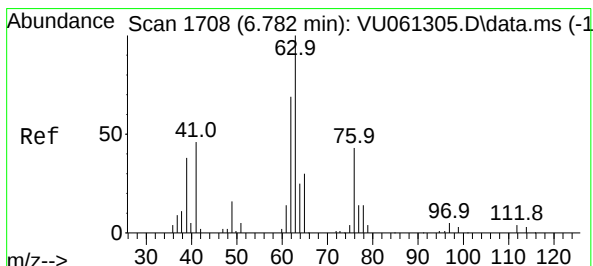
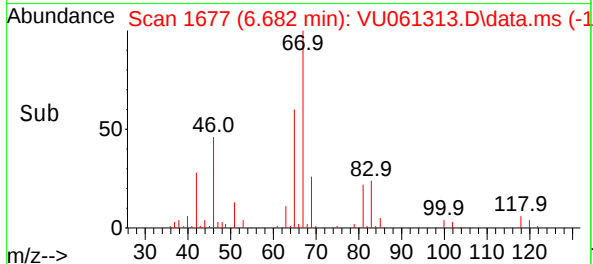
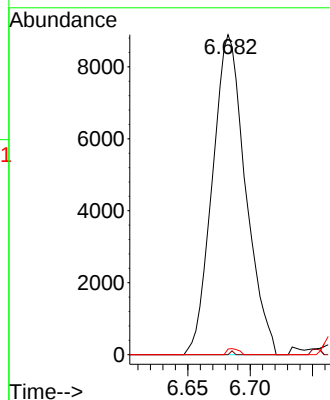
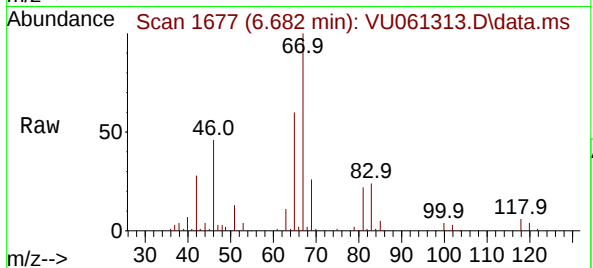
Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 16446
Ion Ratio	Lower Upper
83	100
55	0.1 55.9 83.9#
98	0.7 35.9 53.9#



#37

1,2-Dichloropropane

Concen: 7.061 ug/L

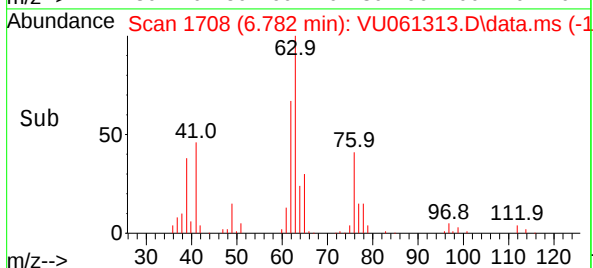
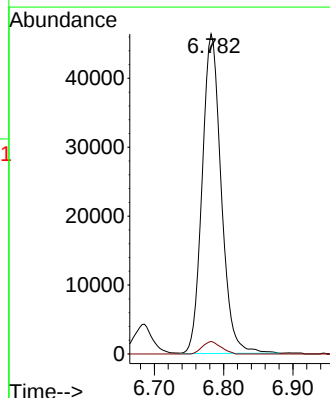
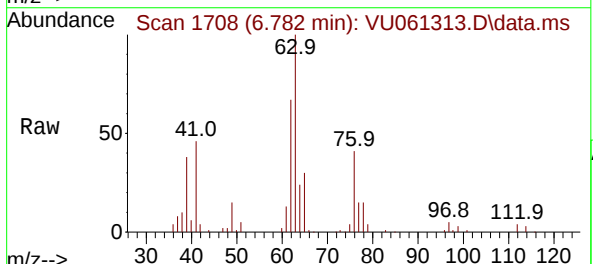
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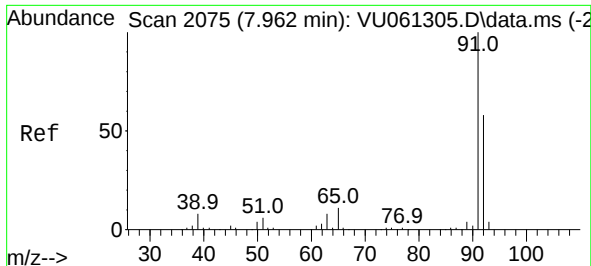
Delta R.T. -0.000 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Tgt Ion: 63	Resp: 88619
Ion Ratio	Lower Upper
63	100
112	3.8 3.0 4.4

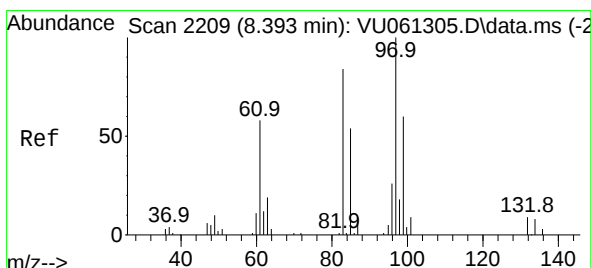
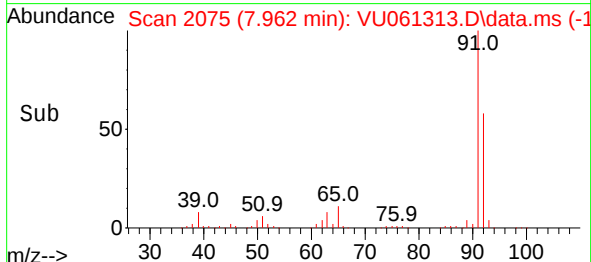
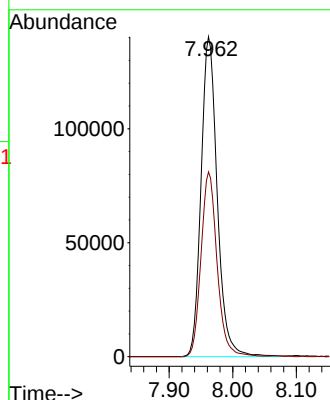
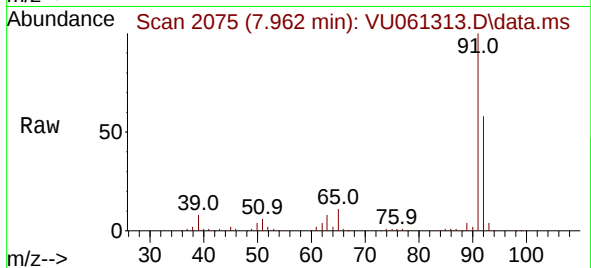




#42
Toluene
Concen: 4.614 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. -0.000 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

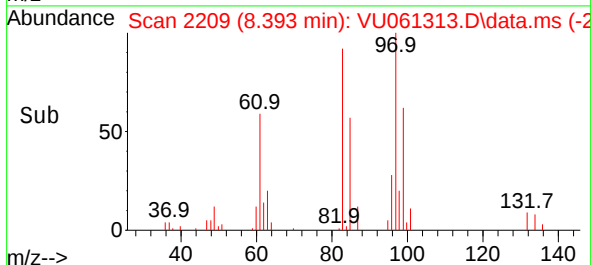
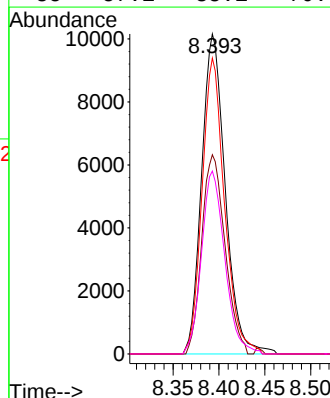
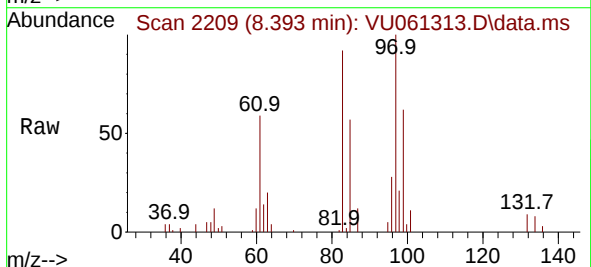
Instrument :
MSVOA_U
ClientSampleId :

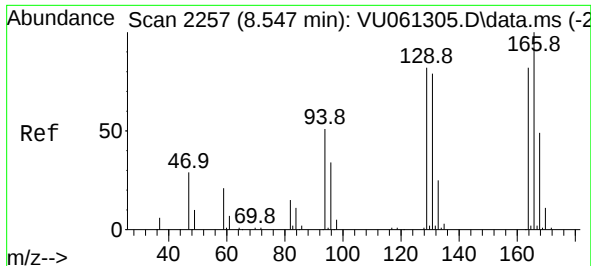
Tgt Ion: 91 Resp: 248117
Ion Ratio Lower Upper
91 100
92 57.7 40.3 74.8



#45
1,1,2-Trichloroethane
Concen: 2.016 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. -0.000 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

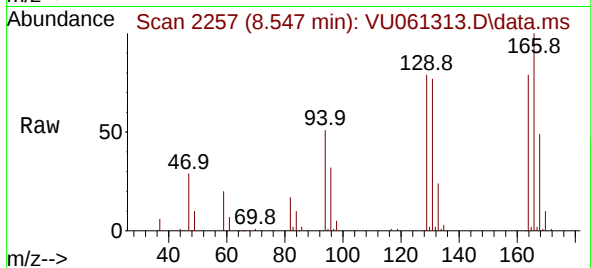
Tgt Ion: 97 Resp: 18204
Ion Ratio Lower Upper
97 100
99 62.3 44.1 81.9
83 92.4 61.2 113.6
85 57.1 38.1 70.7





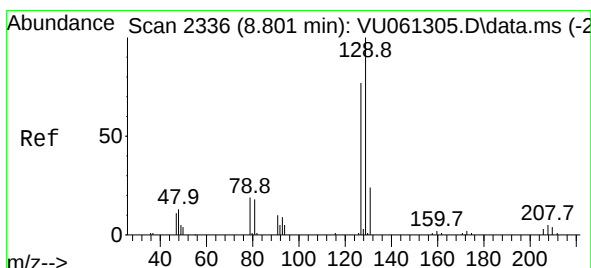
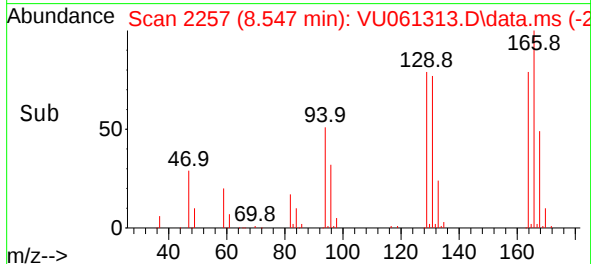
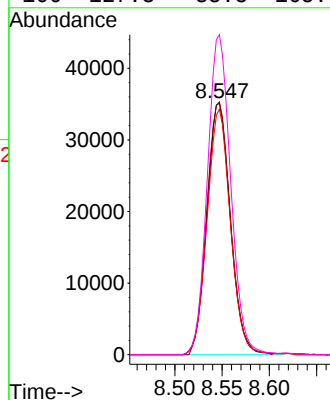
#47
Tetrachloroethene
Concen: 6.488 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.000 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:164 Resp: 61031

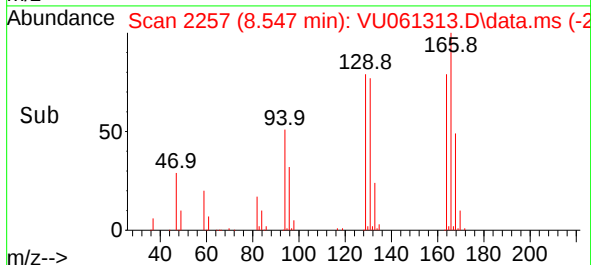
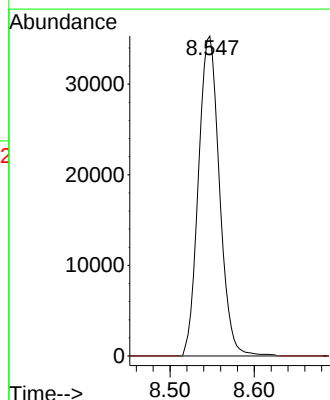
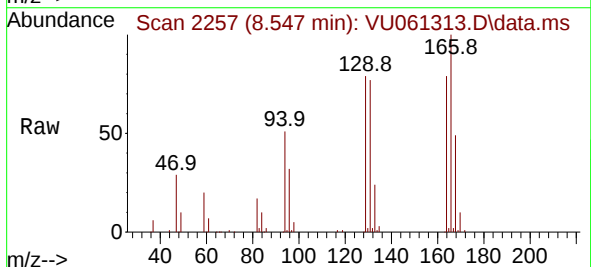
Ion	Ratio	Lower	Upper
164	100		
129	100.6	69.9	129.7
131	97.6	68.3	126.8
166	127.3	88.8	165.0

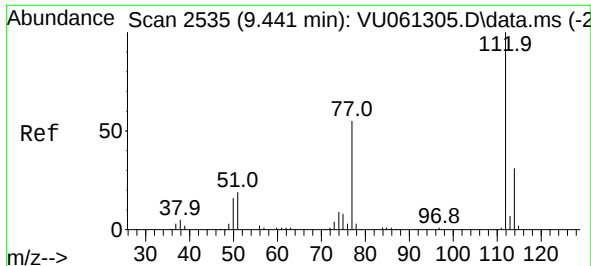


#49
Dibromochloromethane
Concen: 5.980 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.254 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

Tgt Ion:129 Resp: 61261

Ion	Ratio	Lower	Upper
129	100		
127	0.0	51.8	96.2#





#51

Chlorobenzene

Concen: 5.184 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

ClientSampleId :

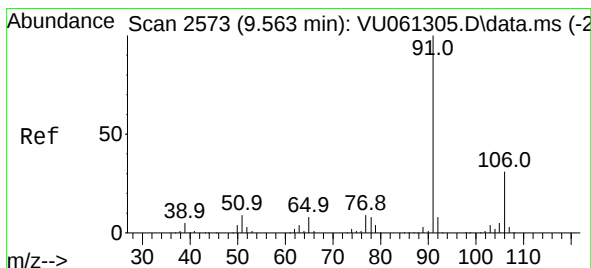
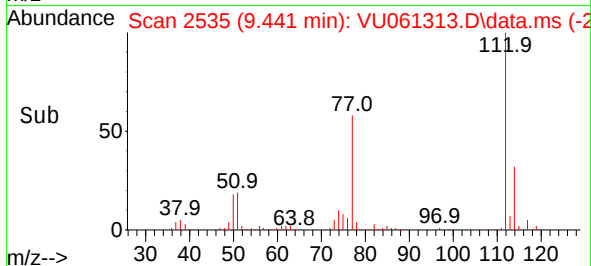
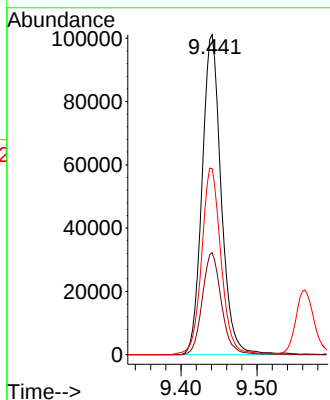
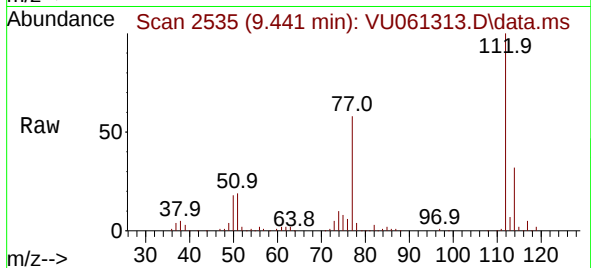
Tgt Ion:112 Resp: 176173

Ion Ratio Lower Upper

112 100

114 31.9 22.9 42.5

77 58.1 47.1 70.7



#52

Ethylbenzene

Concen: 6.484 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. -0.000 min

Lab File: VU061313.D

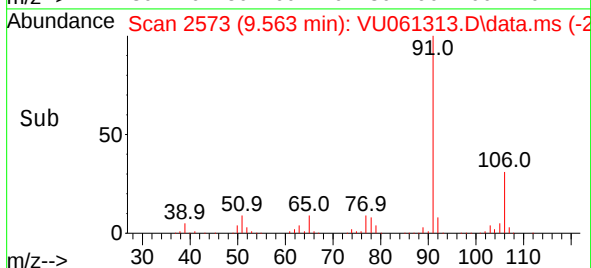
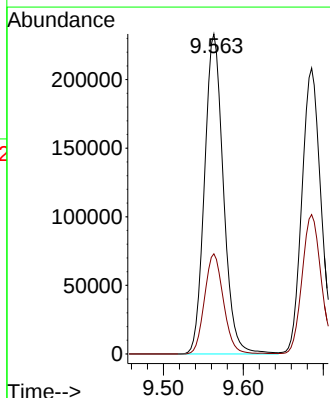
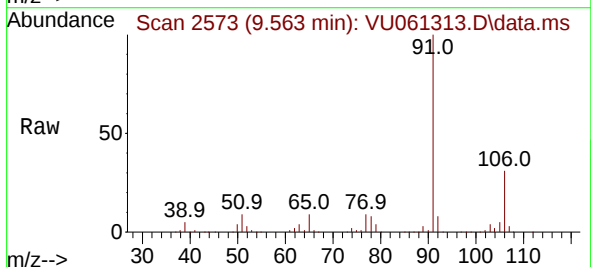
Acq: 31 Oct 2024 15:51

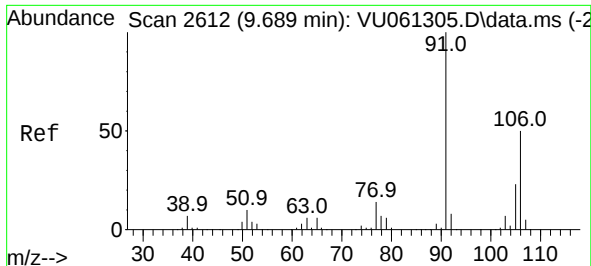
Tgt Ion: 91 Resp: 383528

Ion Ratio Lower Upper

91 100

106 31.3 22.0 41.0





#53

m,p-Xylene

Concen: 7.583 ug/L

RT: 9.685 min Scan# 2

Delta R.T. -0.003 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

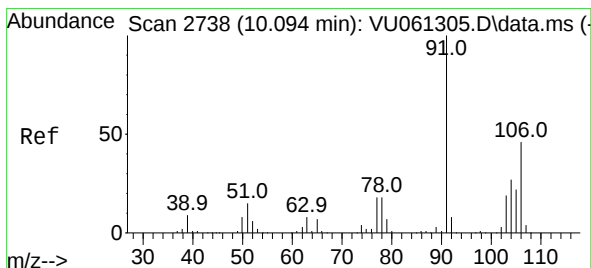
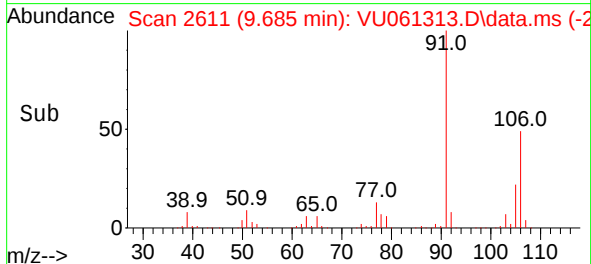
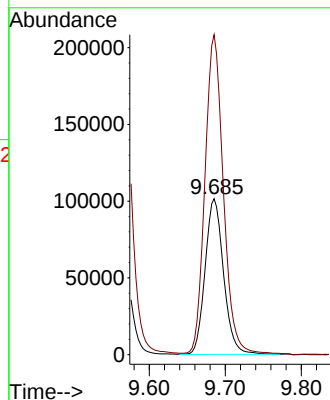
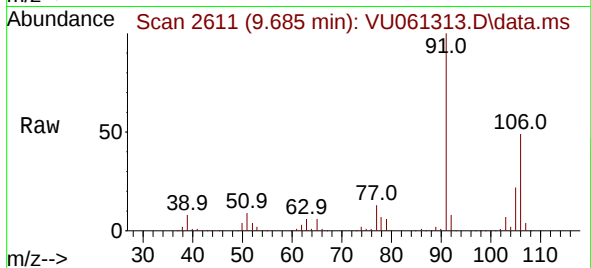
ClientSampleId :

Tgt Ion:106 Resp: 170860

Ion Ratio Lower Upper

106 100

91 205.2 145.7 270.7



#54

o-Xylene

Concen: 2.945 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.000 min

Lab File: VU061313.D

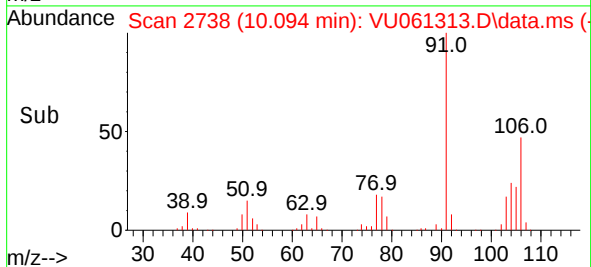
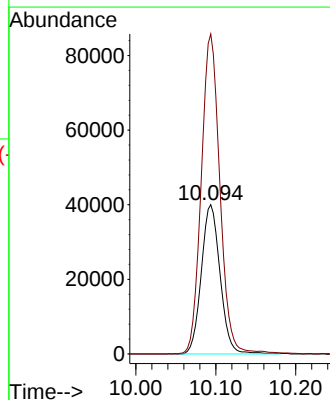
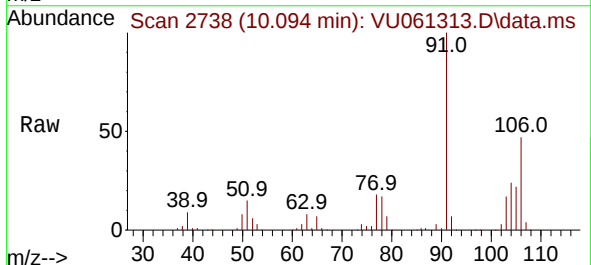
Acq: 31 Oct 2024 15:51

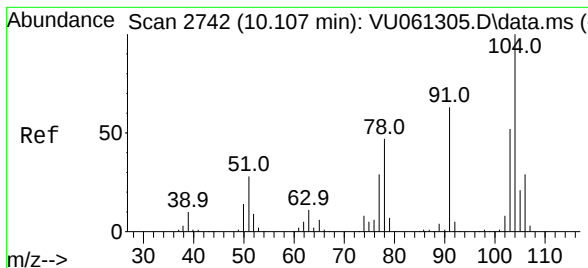
Tgt Ion:106 Resp: 65489

Ion Ratio Lower Upper

106 100

91 214.4 148.8 276.4





#55

Styrene

Concen: 2.820 ug/L

RT: 10.110 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

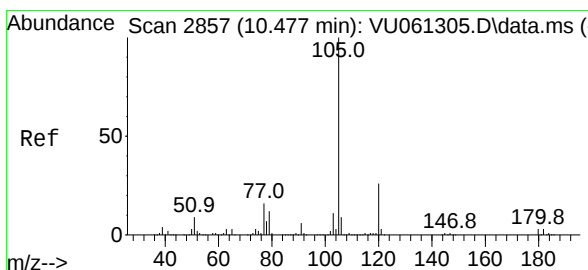
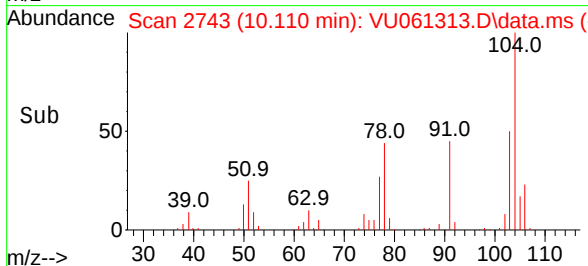
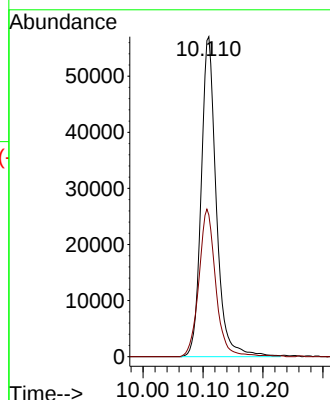
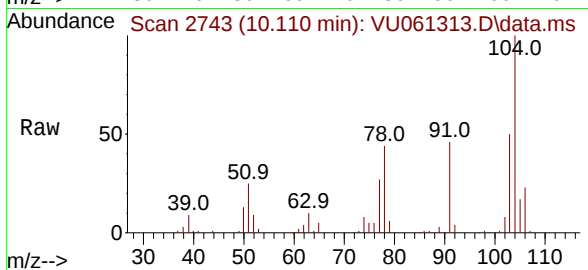
ClientSampleId :

Tgt Ion:104 Resp: 100528

Ion Ratio Lower Upper

104 100

78 44.3 32.3 59.9



#60

Isopropylbenzene

Concen: 0.613 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.383 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

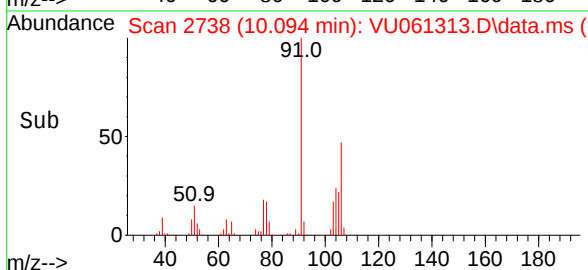
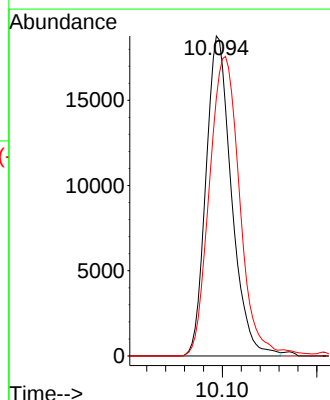
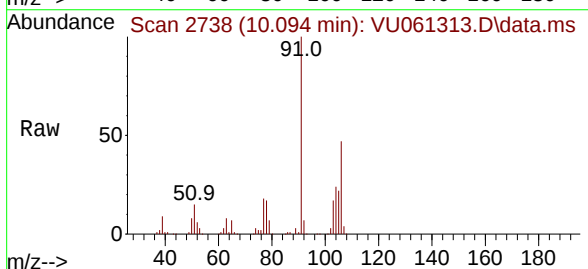
Tgt Ion:105 Resp: 35234

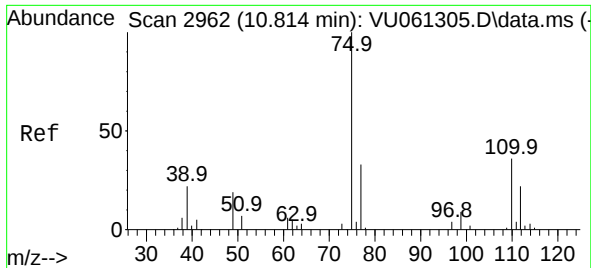
Ion Ratio Lower Upper

105 100

120 0.0 21.2 31.8#

77 111.5 12.6 19.0#

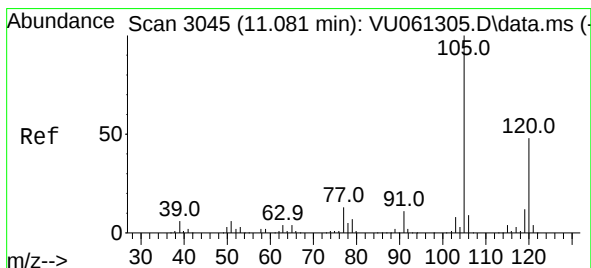
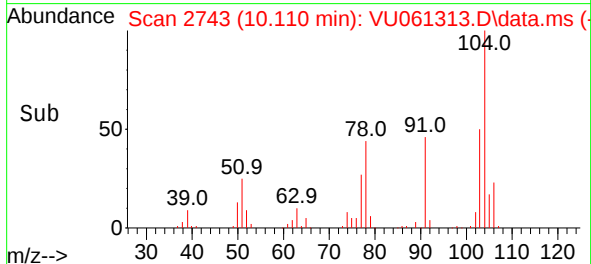
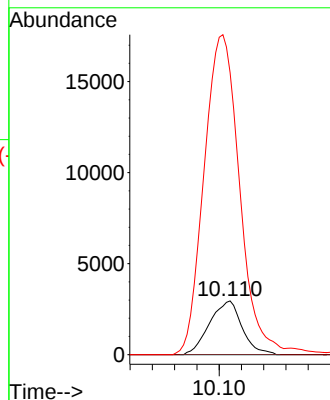
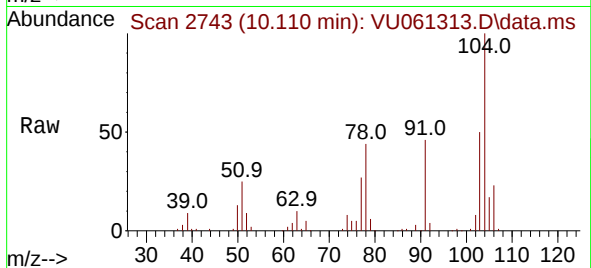




#61
1,2,3-Trichloropropane
Concen: 0.799 ug/L
RT: 10.110 min Scan# 21
Delta R.T. -0.704 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

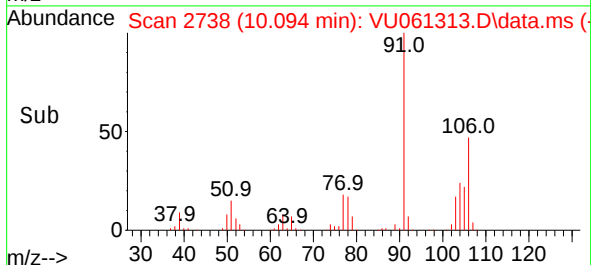
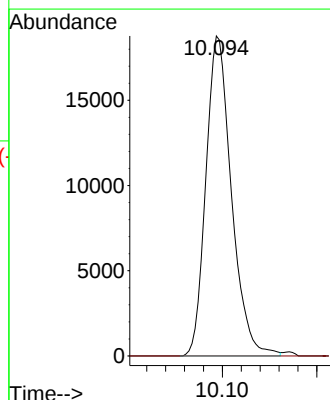
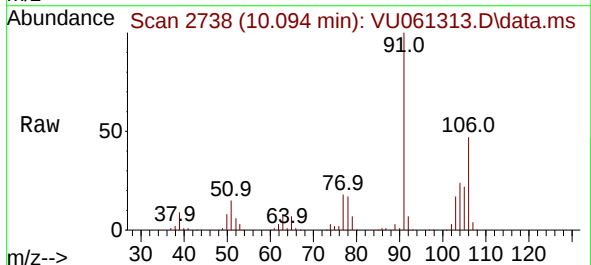
Instrument :
MSVOA_U
ClientSampleId :

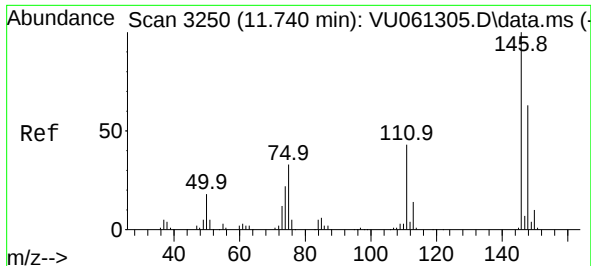
Tgt Ion: 75 Resp: 5991
Ion Ratio Lower Upper
75 100
110 0.0 28.8 43.2#
77 655.5 25.7 38.5#



#62
1,3,5-Trimethylbenzene
Concen: 0.752 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.987 min
Lab File: VU061313.D
Acq: 31 Oct 2024 15:51

Tgt Ion:105 Resp: 35234
Ion Ratio Lower Upper
105 100
120 0.0 38.7 58.1#





#64

1,3-Dichlorobenzene

Concen: 4.229 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.090 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

ClientSampleId :

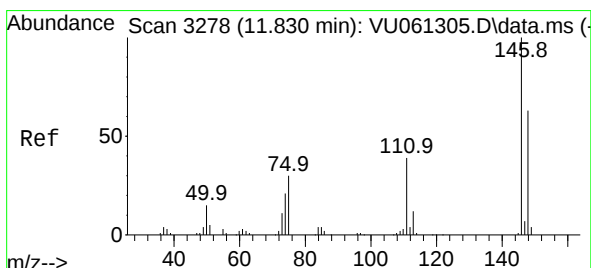
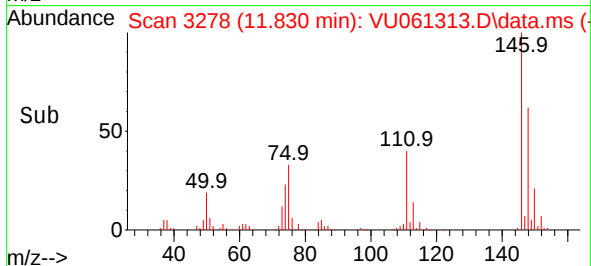
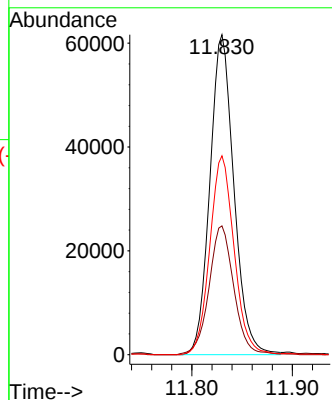
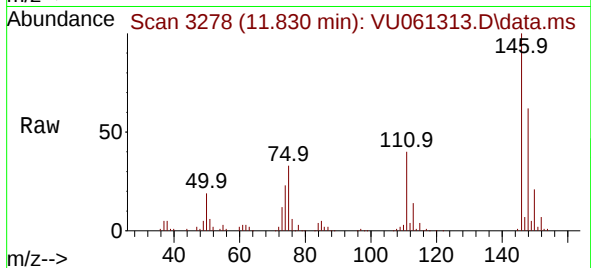
Tgt Ion:146 Resp: 102381

Ion Ratio Lower Upper

146 100

111 40.2 30.0 55.8

148 62.2 45.1 83.7



#65

1,4-Dichlorobenzene

Concen: 4.148 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

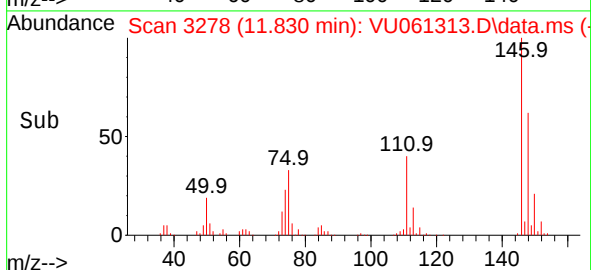
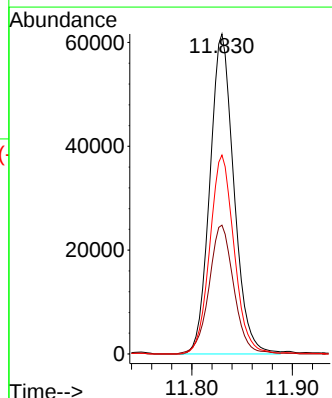
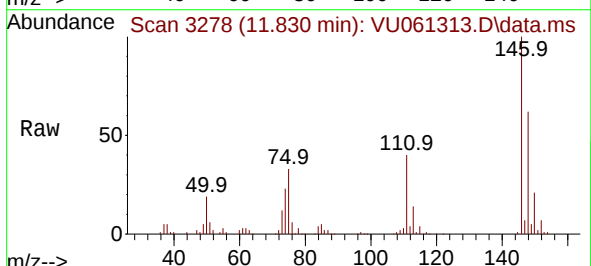
Tgt Ion:146 Resp: 102381

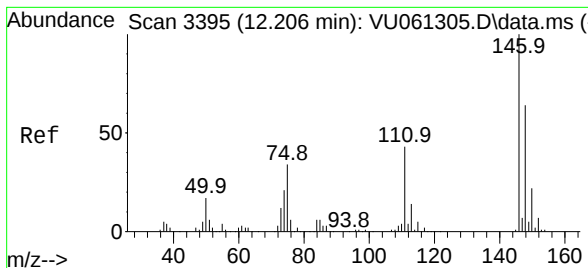
Ion Ratio Lower Upper

146 100

111 40.2 28.2 52.4

148 62.2 43.3 80.3





#67

1,2-Dichlorobenzene

Concen: 5.781 ug/L

RT: 12.206 min Scan# 30

Delta R.T. -0.000 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Instrument :

MSVOA_U

ClientSampleId :

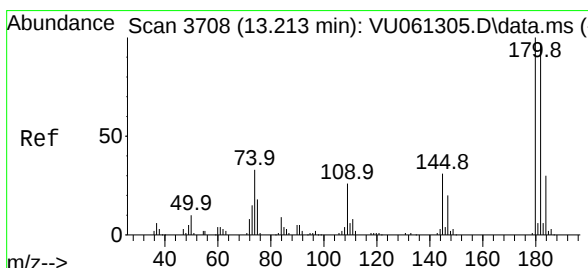
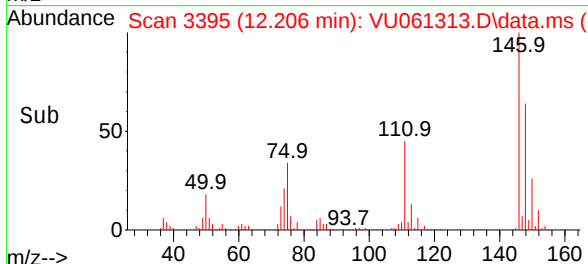
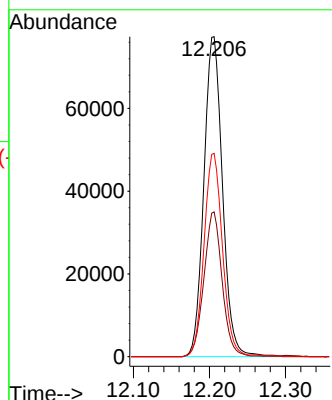
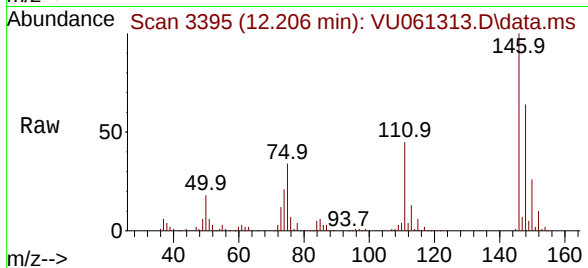
Tgt Ion:146 Resp: 131733

Ion Ratio Lower Upper

146 100

111 45.2 35.2 52.8

148 63.6 51.3 76.9



#69

1,3,5-Trichlorobenzene

Concen: 6.316 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.620 min

Lab File: VU061313.D

Acq: 31 Oct 2024 15:51

Tgt Ion:180 Resp: 104825

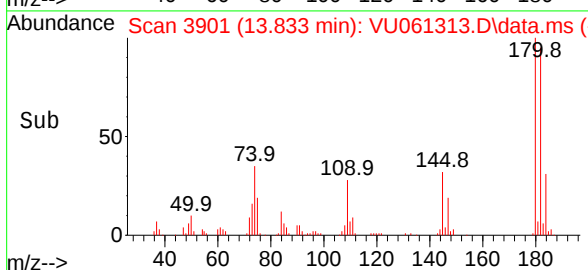
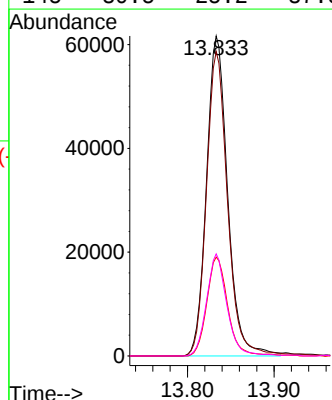
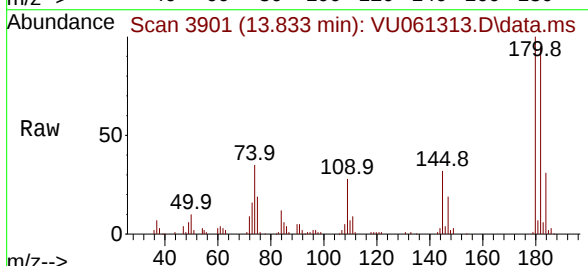
Ion Ratio Lower Upper

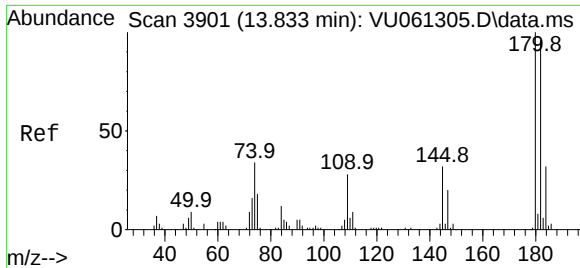
180 100

182 95.2 77.4 116.2

184 30.1 24.4 36.6

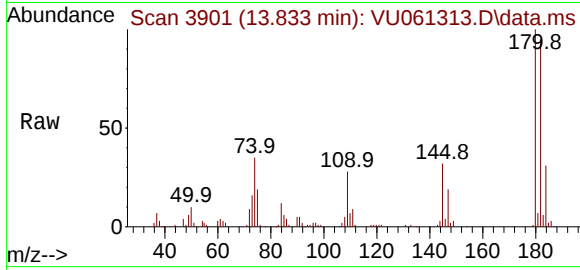
145 30.5 25.2 37.8





#70
 1,2,4-trichlorobenzene
 Concen: 7.827 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. -0.000 min
 Lab File: VU061313.D
 Acq: 31 Oct 2024 15:51

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 104825
 Ion Ratio Lower Upper
 180 100
 182 95.2 77.2 115.8
 145 30.5 25.6 38.4

