

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012825\
 Data File : VU063063.D
 Acq On : 28 Jan 2025 13:29
 Operator : MD/SY
 Sample : Q1192-11DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 29 08:39:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR012725WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jan 29 08:16:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.235	114	122637	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	118689	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.801	152	66608	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	15052	3.414	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.200%
7) Chloroethane-d5	1.904	69	14757	4.409	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.200%
11) 1,1-Dichloroethene-d2	2.554	65	10673	4.048	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.000%
20) 2-Butanone-d5	4.608	46	57874	45.231	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.460%
24) Chloroform-d	5.045	84	70229	4.010	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.200%
26) 1,2-Dichloroethane-d4	5.689	65	40406	4.042	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
32) Benzene-d6	5.714	84	108848	4.013	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.200%
36) 1,2-Dichloropropane-d6	6.679	67	29968	4.339	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.800%
41) Toluene-d8	7.888	98	104704	3.904	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.000%
43) trans-1,3-Dichloroprop...	8.171	79	16998	3.976	ug/L	0.00
46) 2-Hexanone-d5	8.621	63	54696	51.274	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.540%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	28377	4.327	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.600%
66) 1,2-Dichlorobenzene-d4	12.183	152	49338	4.138	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	26213	4.443	ug/L	83
12) 1,1-Dichloroethene	2.570	96	46912	7.363	ug/L	79
15) Methyl Acetate	3.171	43	1005	0.633	ug/L #	44
16) Methylene chloride	3.033	84	81294	12.104	ug/L	95
18) trans-1,2-Dichloroethene	3.341	96	62482	9.165	ug/L	93
22) cis-1,2-Dichloroethene	4.656	96	24071	2.954	ug/L	86
27) 1,2-Dichloroethane	5.782	62	16366	1.367	ug/L #	94
29) 1,1,1-Trichloroethane	5.303	97	109974	5.975	ug/L	96
31) Carbon tetrachloride	5.512	117	85563	4.829	ug/L	97
33) Benzene	5.759	78	255606	8.889	ug/L	100
34) Trichloroethene	6.531	95	21430	2.193	ug/L	90
35) Methylcyclohexane	6.679	83	9676	0.786	ug/L #	21
37) 1,2-Dichloropropane	6.779	63	45623	7.055	ug/L #	97
42) Toluene	7.959	91	318460	9.318	ug/L	98
45) 1,1,2-Trichloroethane	8.389	97	11947	1.963	ug/L	90
47) Tetrachloroethene	8.544	164	57255	6.737	ug/L	96
49) Dibromochloromethane	8.544	129	55806	5.875	ug/L #	12
51) Chlorobenzene	9.438	112	141483	5.970	ug/L	98
52) Ethylbenzene	9.560	91	327699	8.227	ug/L	99
53) m,p-Xylene	9.682	106	113608	7.386	ug/L	98

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

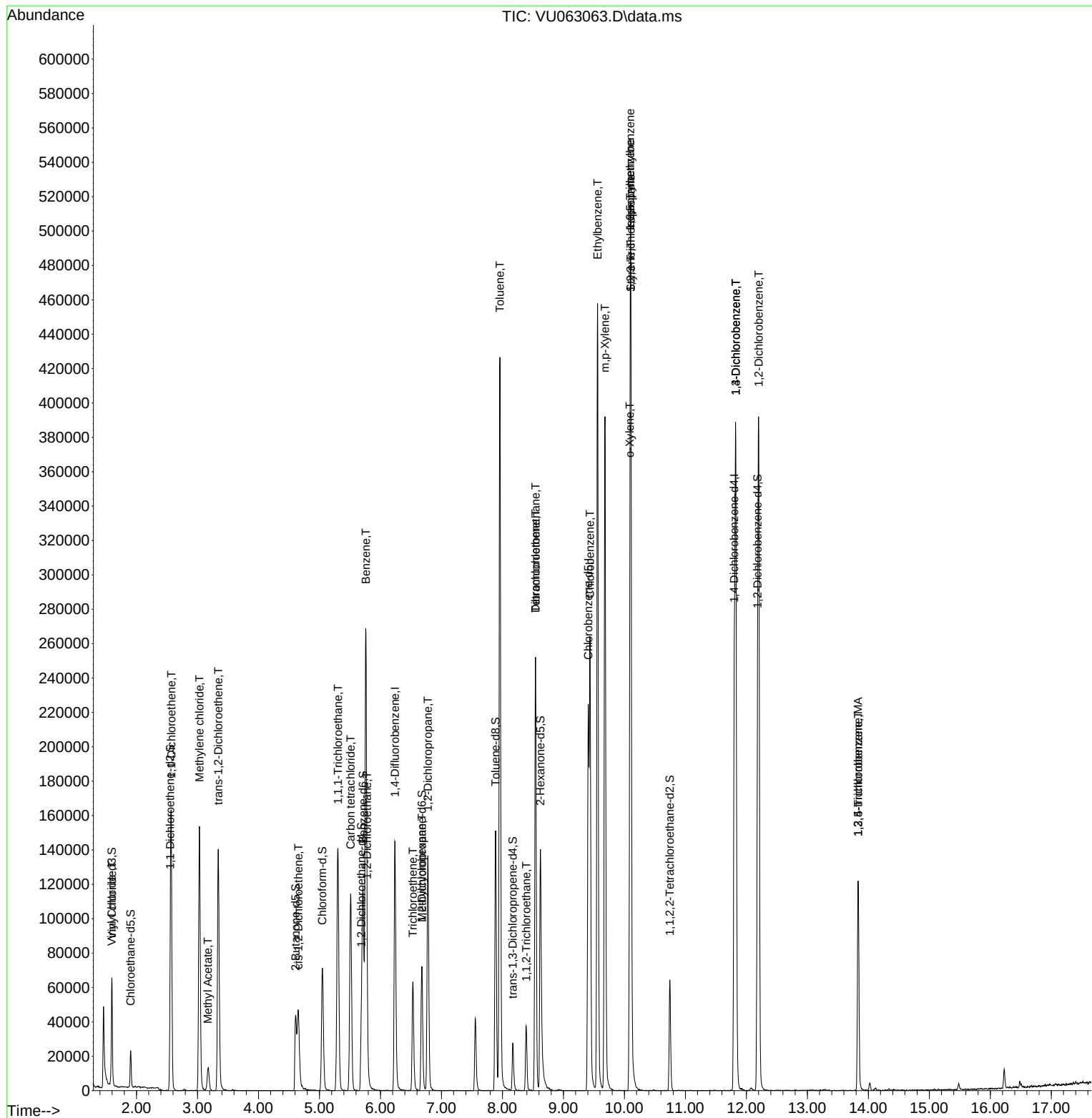
54) o-Xylene	10.090	106	44108	3.130	ug/L	99
55) Styrene	10.103	104	227517	9.550	ug/L	100
60) Isopropylbenzene	10.097	105	38467	0.911	ug/L #	1
61) 1,2,3-Trichloropropane	10.103	75	12144	2.266	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.097	105	38467	1.039	ug/L #	31
64) 1,3-Dichlorobenzene	11.827	146	155956	7.278	ug/L	99
65) 1,4-Dichlorobenzene	11.827	146	155956	7.255	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	151060	7.493	ug/L	97
69) 1,3,5-Trichlorobenzene	13.833	180	43365	2.533	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	43365	3.237	ug/L	99

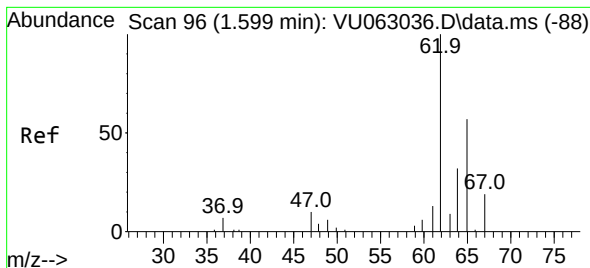
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.443 ug/L

RT: 1.599 min Scan# 9

Delta R.T. 0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

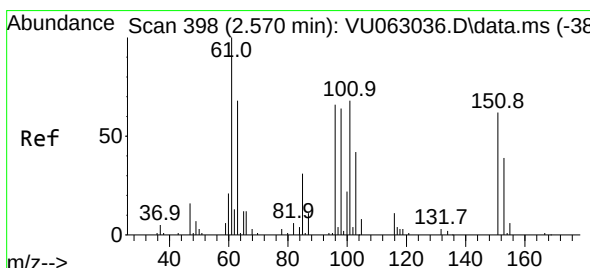
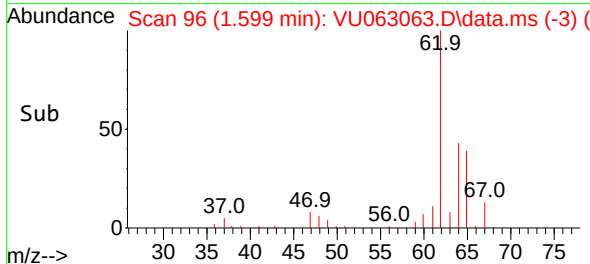
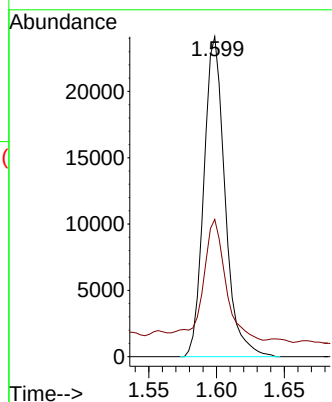
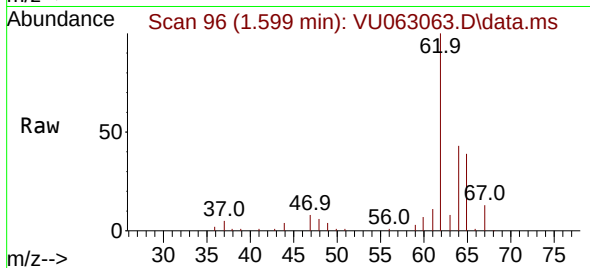
ClientSampleId :

Tgt Ion: 62 Resp: 26213

Ion Ratio Lower Upper

62 100

64 42.9 23.4 43.4



#12

1,1-Dichloroethene

Concen: 7.363 ug/L

RT: 2.570 min Scan# 398

Delta R.T. 0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

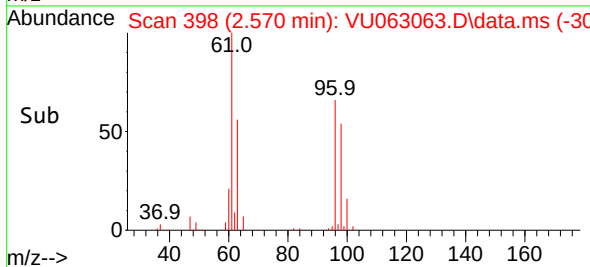
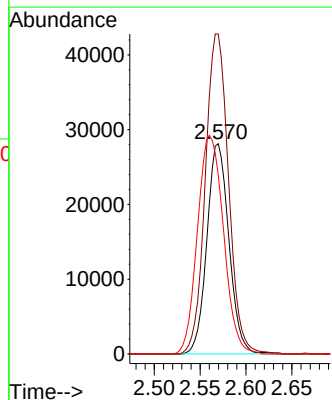
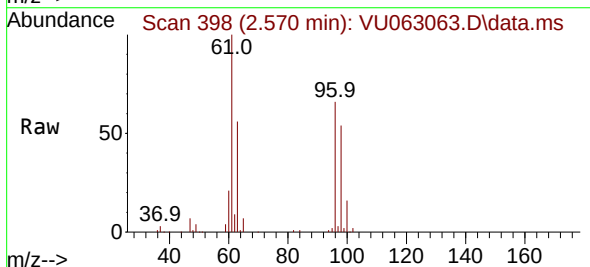
Tgt Ion: 96 Resp: 46912

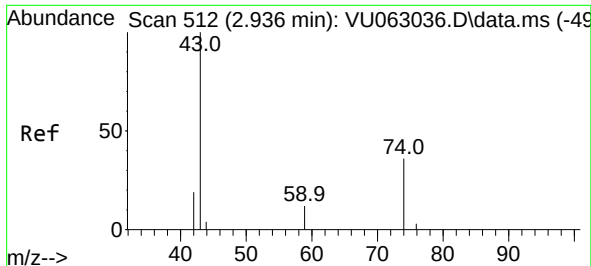
Ion Ratio Lower Upper

96 100

61 152.2 120.4 223.6

63 85.0 82.3 152.9

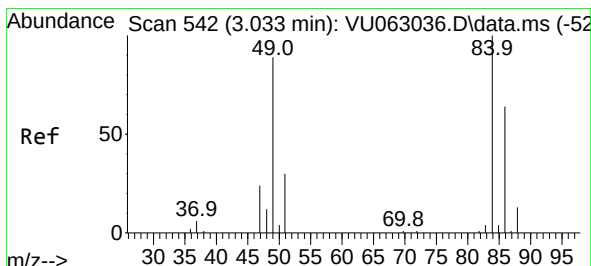
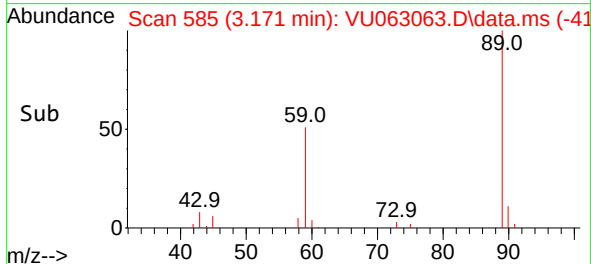
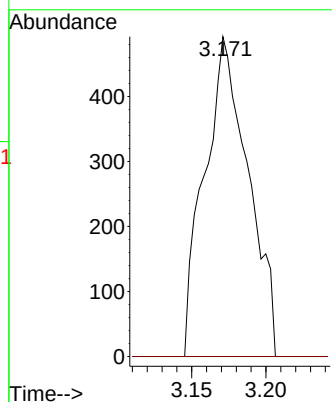
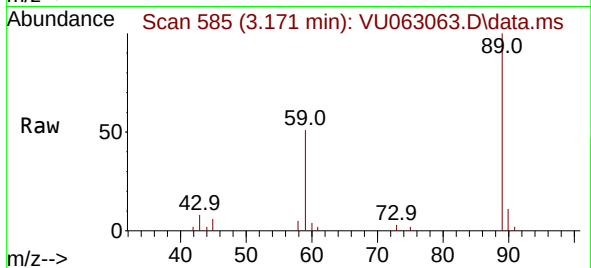




#15
Methyl Acetate
Concen: 0.633 ug/L
RT: 3.171 min Scan# 512
Delta R.T. 0.235 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

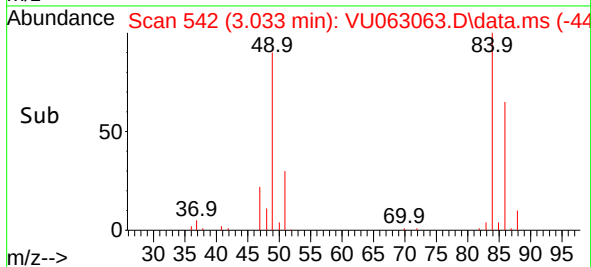
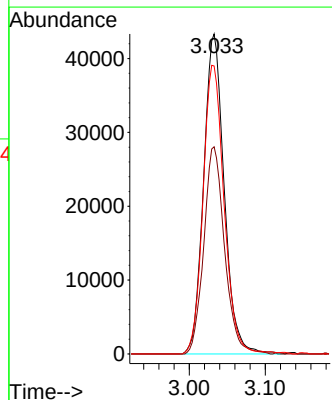
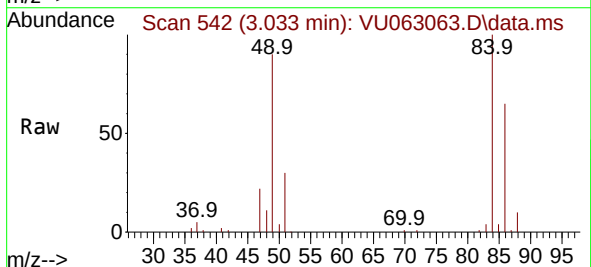
Instrument :
MSVOA_U
ClientSampleId :

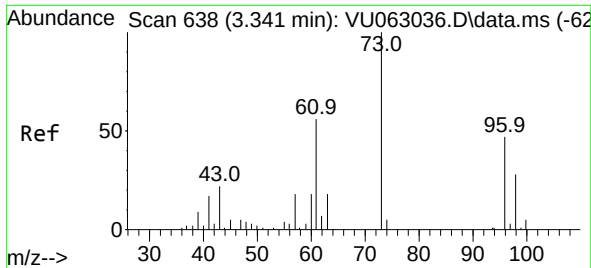
Tgt Ion: 43 Resp: 1005
Ion Ratio Lower Upper
43 100
74 0.0 24.4 36.6#



#16
Methylene chloride
Concen: 12.104 ug/L
RT: 3.033 min Scan# 542
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

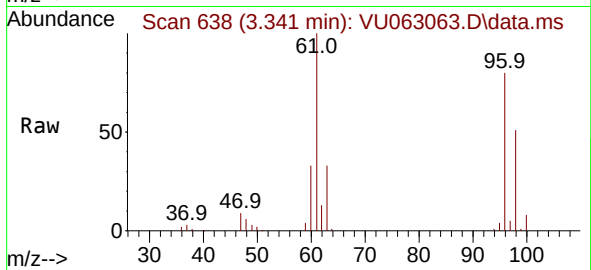
Tgt Ion: 84 Resp: 81294
Ion Ratio Lower Upper
84 100
86 64.8 44.7 83.1
49 90.0 68.3 126.9





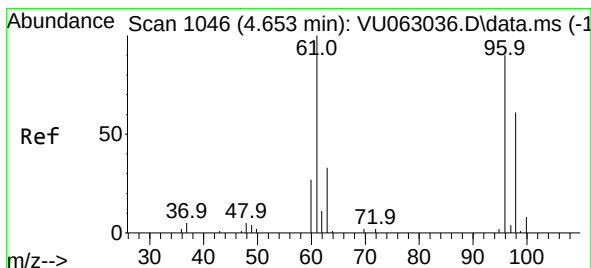
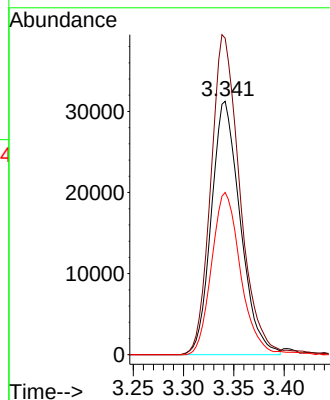
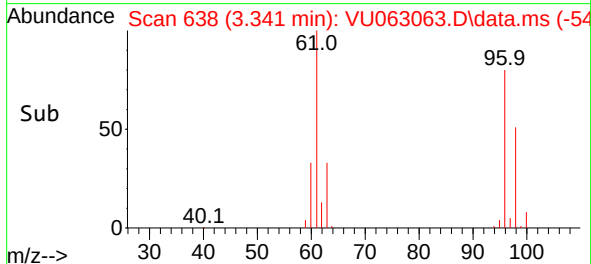
#18
 trans-1,2-Dichloroethene
 Concen: 9.165 ug/L
 RT: 3.341 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Instrument :
 MSVOA_U
 ClientSampleId :

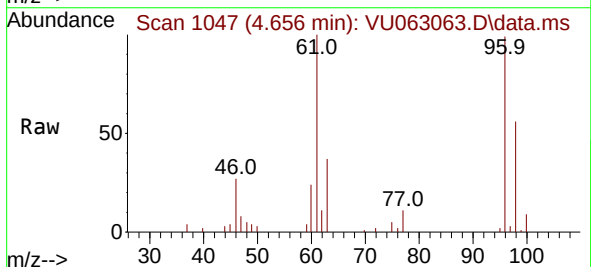


Tgt Ion: 96 Resp: 62482

Ion	Ratio	Lower	Upper
96	100		
61	124.9	94.4	175.2
98	64.0	42.8	79.4

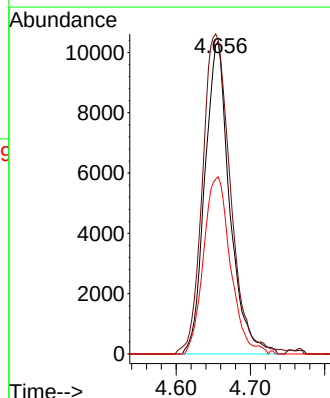
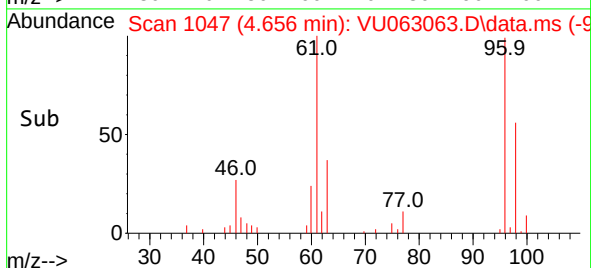


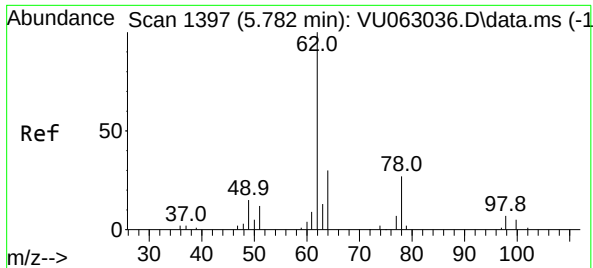
#22
 cis-1,2-Dichloroethene
 Concen: 2.954 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. 0.003 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29



Tgt Ion: 96 Resp: 24071

Ion	Ratio	Lower	Upper
96	100		
61	100.6	84.8	157.6
98	56.7	43.1	80.1

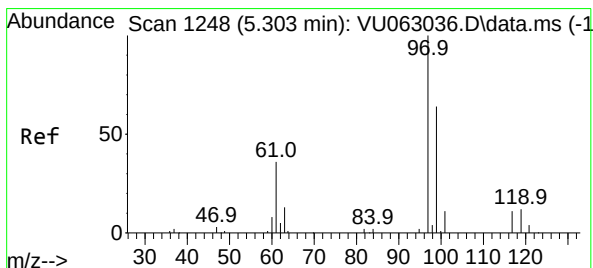
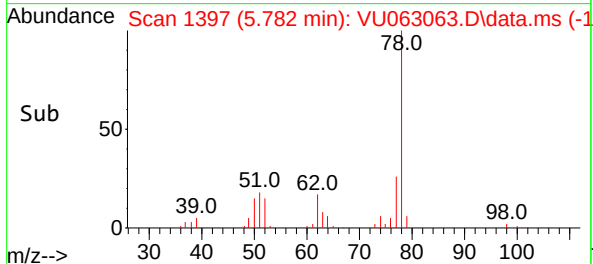
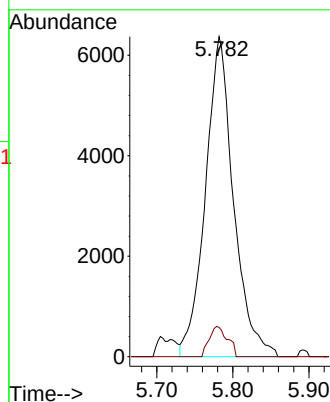
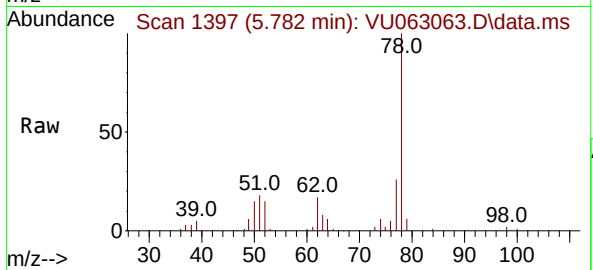




#27
1,2-Dichloroethane
Concen: 1.367 ug/L
RT: 5.782 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

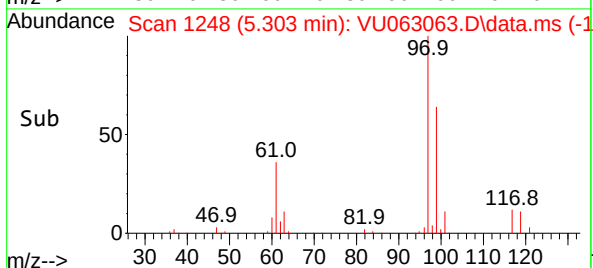
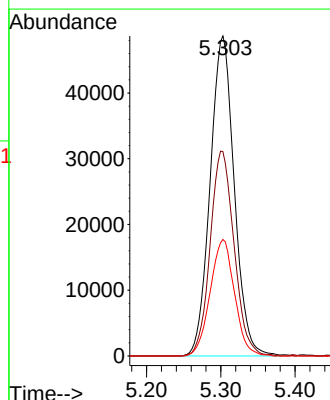
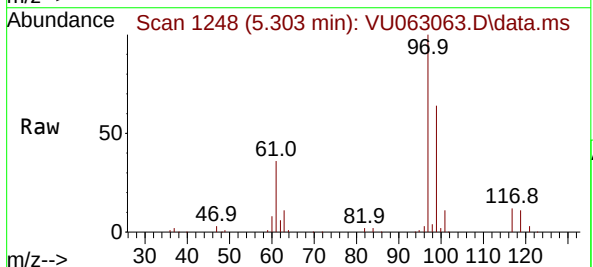
Instrument :
MSVOA_U
ClientSampleId :

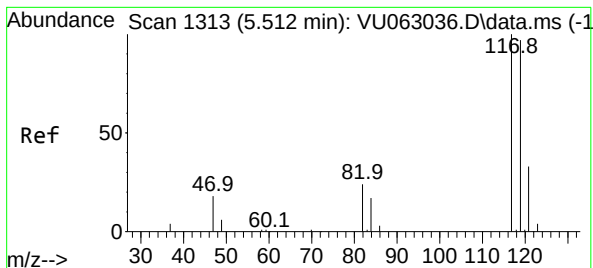
Tgt Ion: 62 Resp: 16366
Ion Ratio Lower Upper
62 100
98 9.2 5.8 8.6#



#29
1,1,1-Trichloroethane
Concen: 5.975 ug/L
RT: 5.303 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion: 97 Resp: 109974
Ion Ratio Lower Upper
97 100
99 63.5 52.4 78.6
61 36.7 32.2 48.4





#31

Carbon tetrachloride

Concen: 4.829 ug/L

RT: 5.512 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

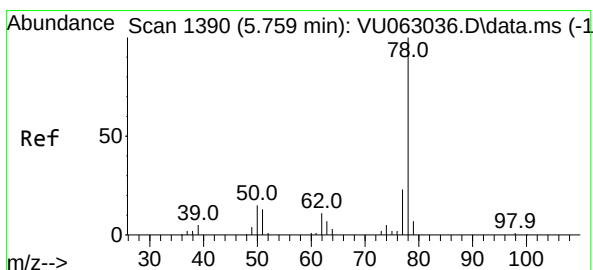
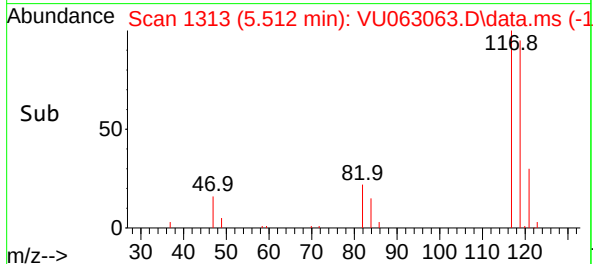
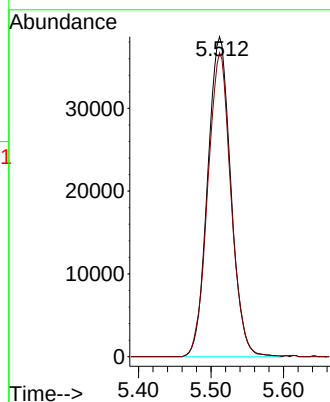
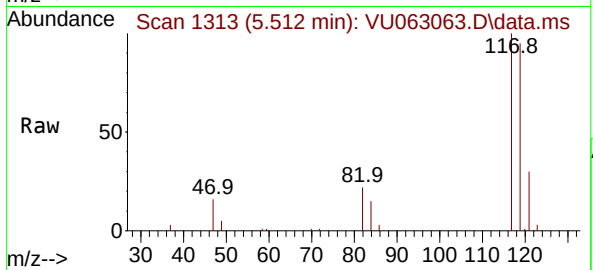
ClientSampleId :

Tgt Ion:117 Resp: 85563

Ion Ratio Lower Upper

117 100

119 95.2 78.6 118.0



#33

Benzene

Concen: 8.889 ug/L

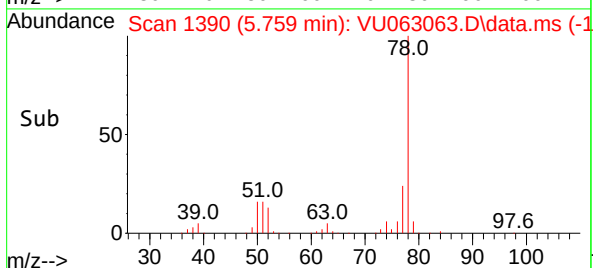
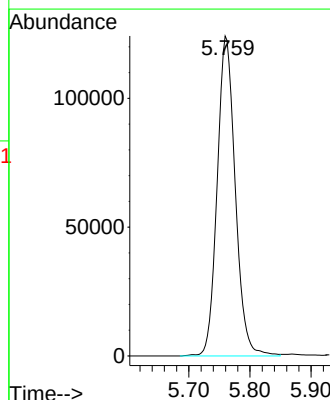
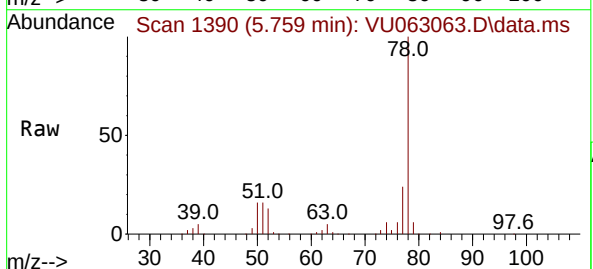
RT: 5.759 min Scan# 1390

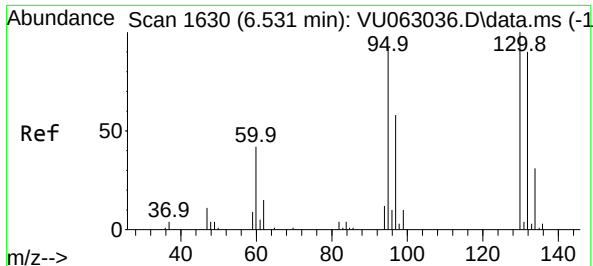
Delta R.T. -0.003 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Tgt Ion: 78 Resp: 255606

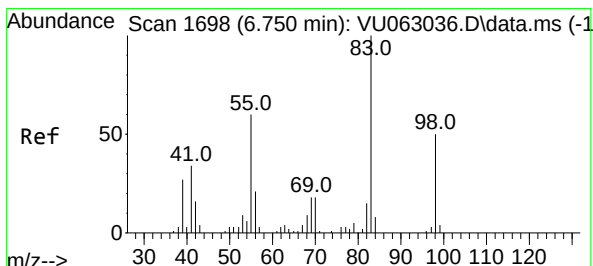
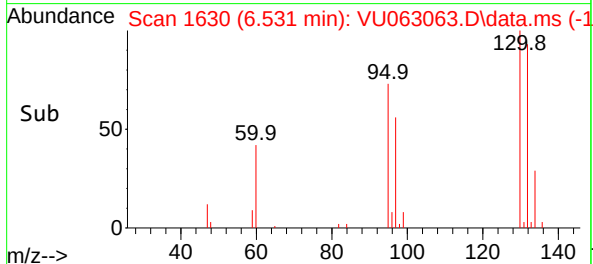
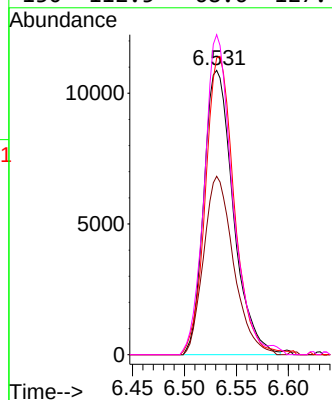
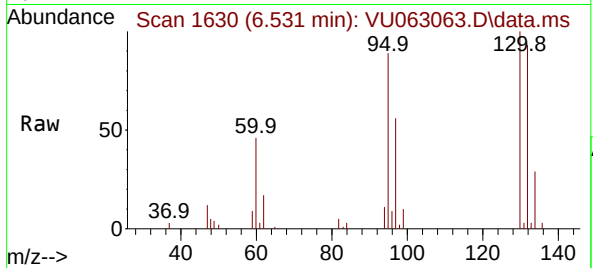




#34
Trichloroethene
Concen: 2.193 ug/L
RT: 6.531 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

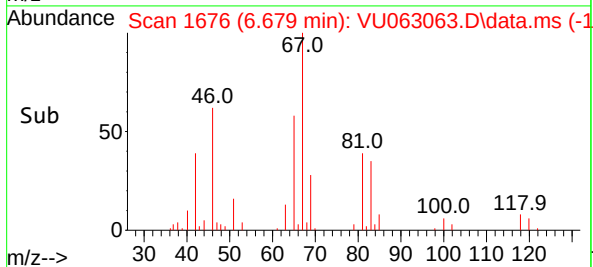
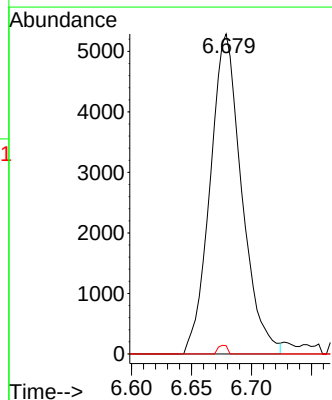
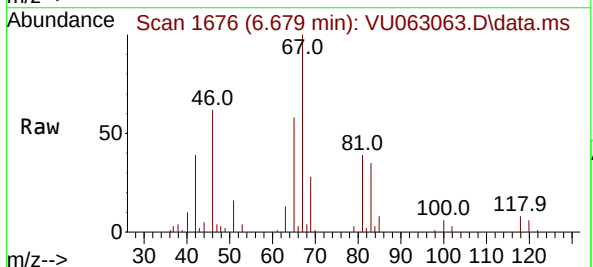
Instrument :
MSVOA_U
ClientSampleId :

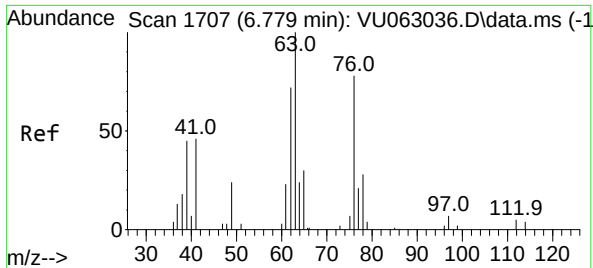
Tgt Ion: 95 Resp: 21430
Ion Ratio Lower Upper
95 100
97 62.7 47.5 88.3
132 104.4 66.9 124.3
130 112.5 68.6 127.4



#35
Methylcyclohexane
Concen: 0.786 ug/L
RT: 6.679 min Scan# 1676
Delta R.T. -0.074 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion: 83 Resp: 9676
Ion Ratio Lower Upper
83 100
55 0.0 57.2 85.8#
98 0.8 36.6 55.0#





#37

1,2-Dichloropropane

Concen: 7.055 ug/L

RT: 6.779 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

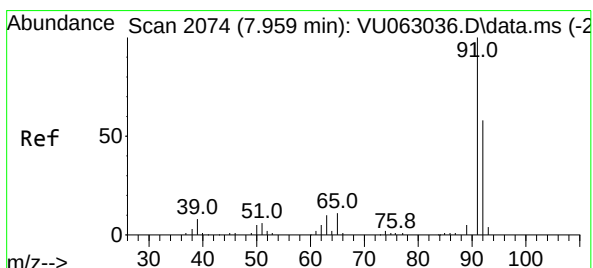
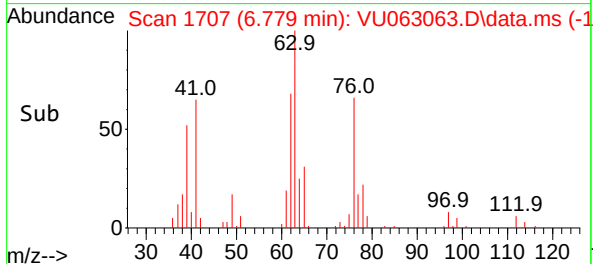
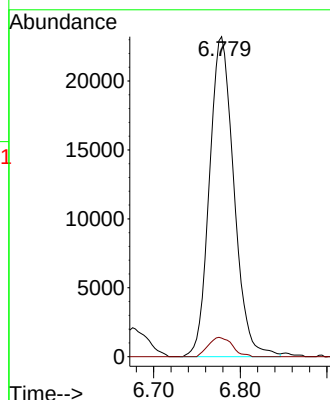
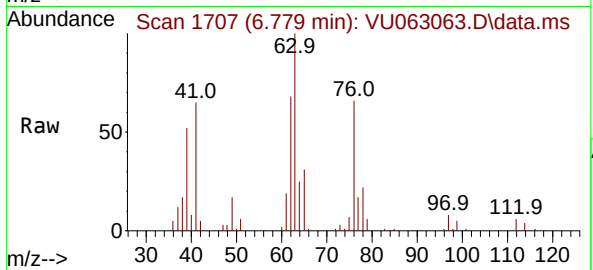
ClientSampleId :

Tgt Ion: 63 Resp: 45623

Ion Ratio Lower Upper

63 100

112 5.9 3.8 5.8#



#42

Toluene

Concen: 9.318 ug/L

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU063063.D

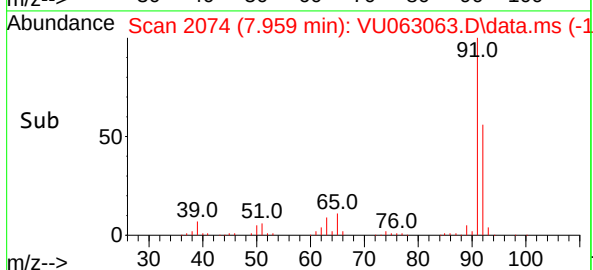
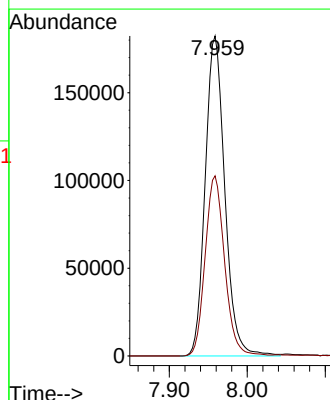
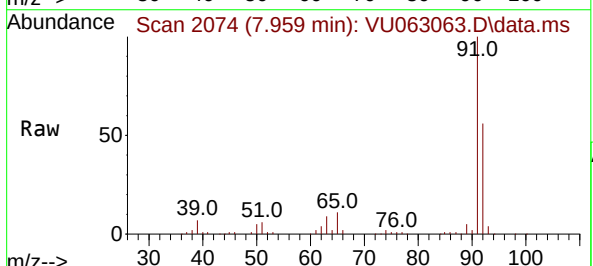
Acq: 28 Jan 2025 13:29

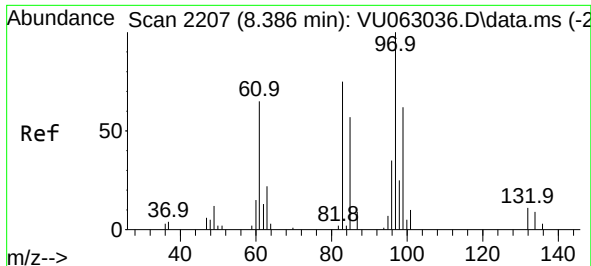
Tgt Ion: 91 Resp: 318460

Ion Ratio Lower Upper

91 100

92 56.3 40.4 75.0

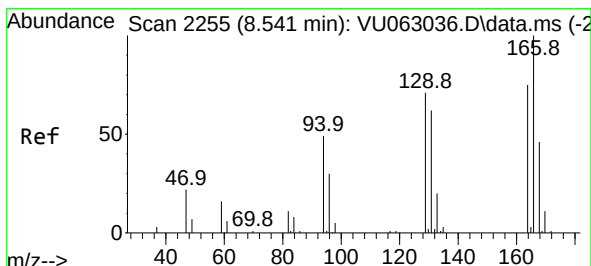
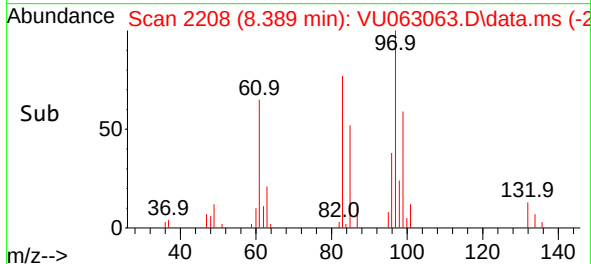
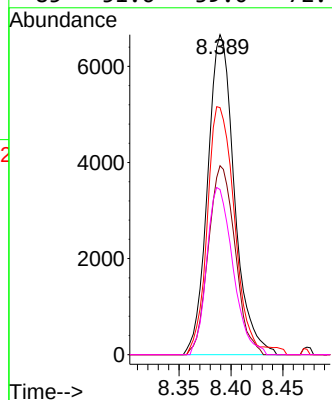
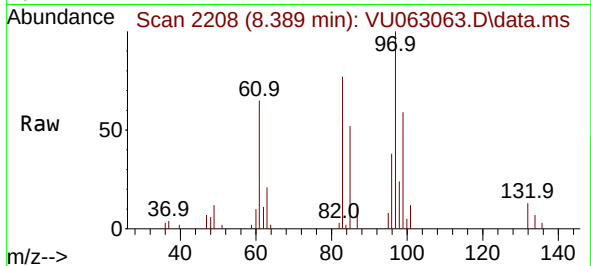




#45
1,1,2-Trichloroethane
Concen: 1.963 ug/L
RT: 8.389 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

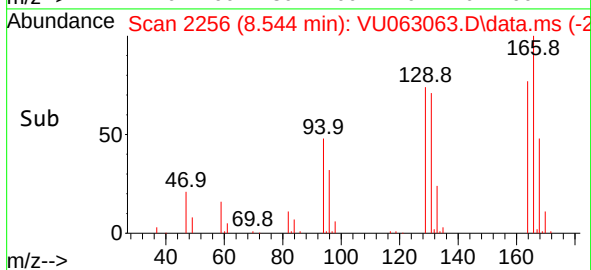
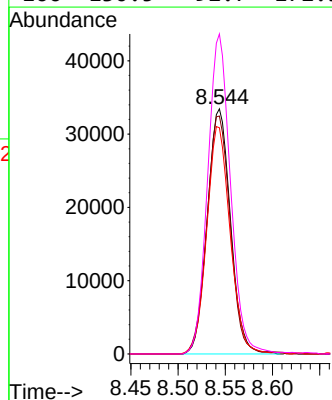
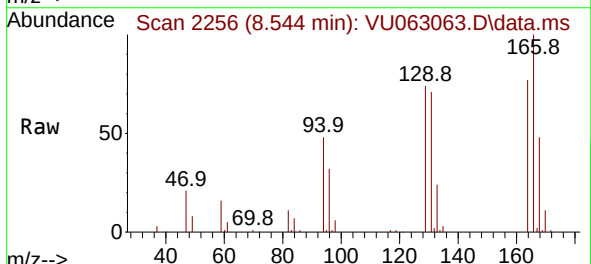
Instrument :
MSVOA_U
ClientSampleId :

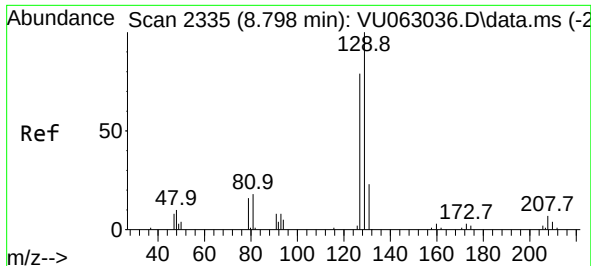
Tgt Ion:	97	Resp:	11947
Ion	Ratio	Lower	Upper
97	100		
99	59.1	45.6	84.6
83	77.2	63.0	117.0
85	51.6	39.0	72.4



#47
Tetrachloroethene
Concen: 6.737 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion:	164	Resp:	57255
Ion	Ratio	Lower	Upper
164	100		
129	97.1	71.0	131.9
131	92.3	69.4	129.0
166	130.5	92.7	172.3

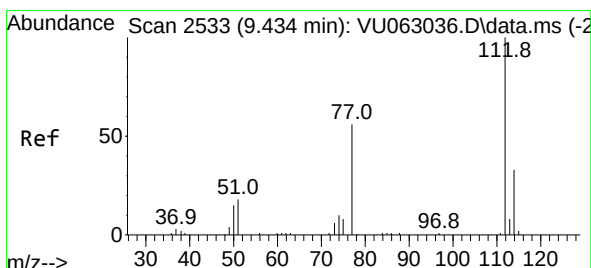
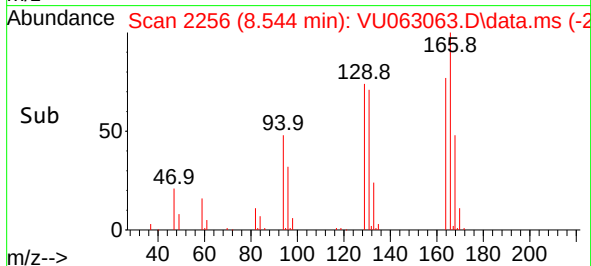
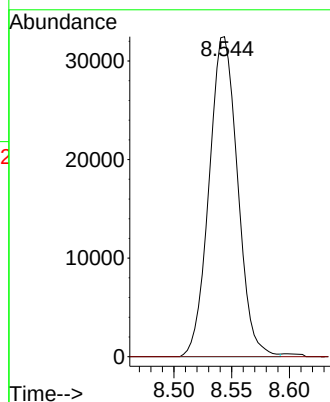
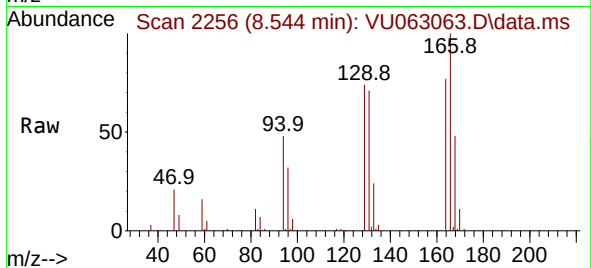




#49
Dibromochloromethane
Concen: 5.875 ug/L
RT: 8.544 min Scan# 21
Delta R.T. -0.254 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

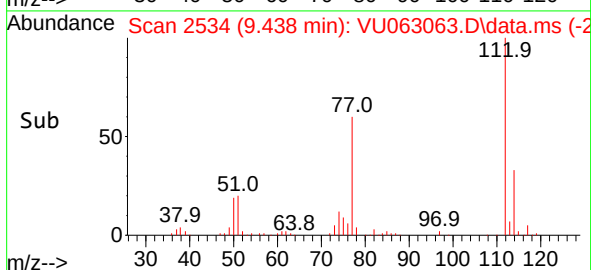
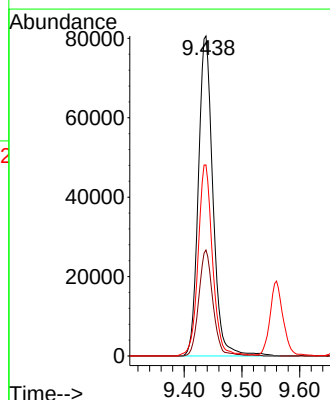
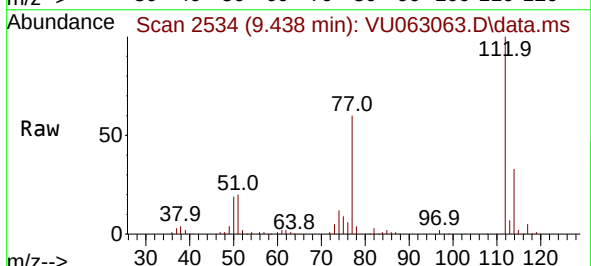
Instrument :
MSVOA_U
ClientSampleId :

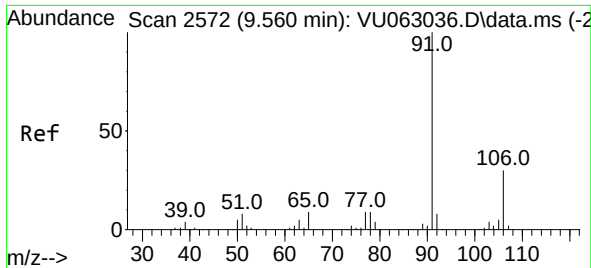
Tgt Ion:129 Resp: 55806
Ion Ratio Lower Upper
129 100
127 0.0 52.1 96.9#



#51
Chlorobenzene
Concen: 5.970 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. -0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion:112 Resp: 141483
Ion Ratio Lower Upper
112 100
114 33.1 21.7 40.3
77 59.7 48.6 73.0

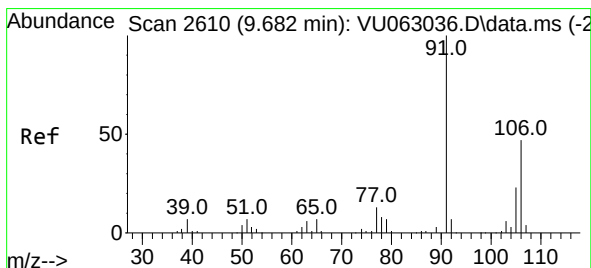
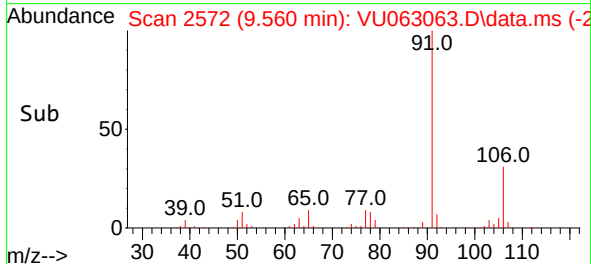
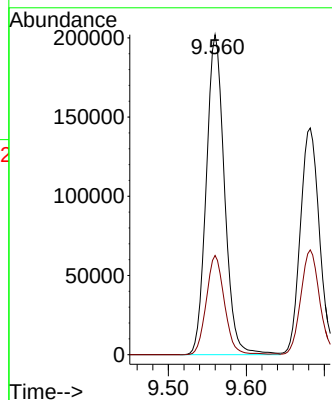
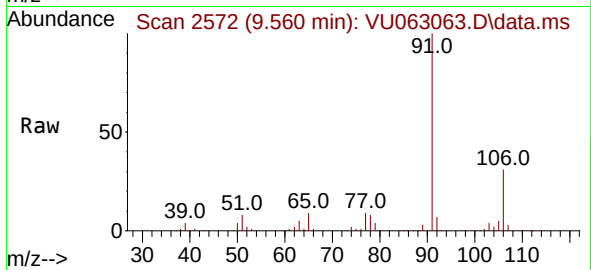




#52
Ethylbenzene
Concen: 8.227 ug/L
RT: 9.560 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

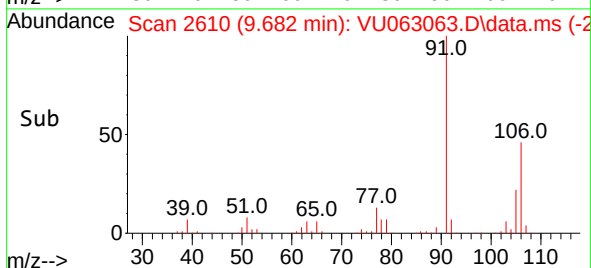
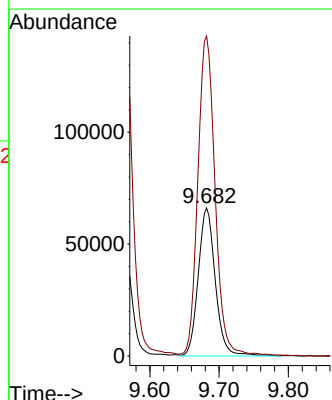
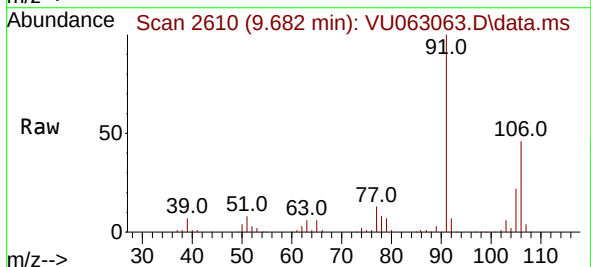
Instrument :
MSVOA_U
ClientSampleId :

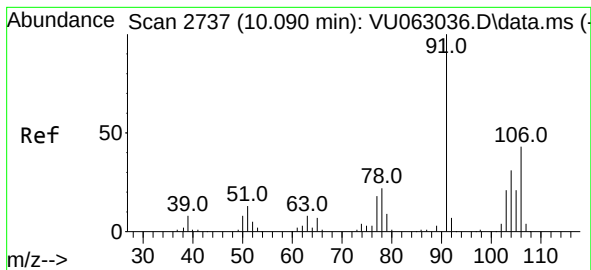
Tgt Ion: 91 Resp: 327699
Ion Ratio Lower Upper
91 100
106 31.0 21.9 40.7



#53
m,p-Xylene
Concen: 7.386 ug/L
RT: 9.682 min Scan# 2610
Delta R.T. -0.003 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion:106 Resp: 113608
Ion Ratio Lower Upper
106 100
91 216.2 153.1 284.3





#54

o-Xylene

Concen: 3.130 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. 0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

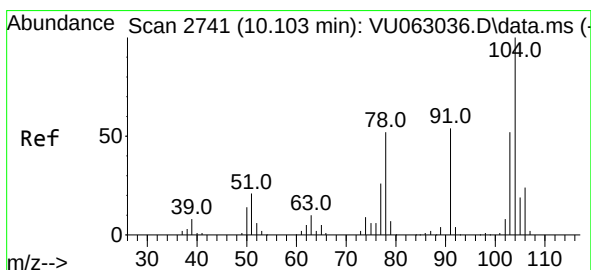
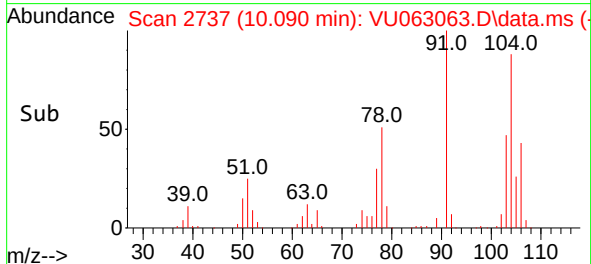
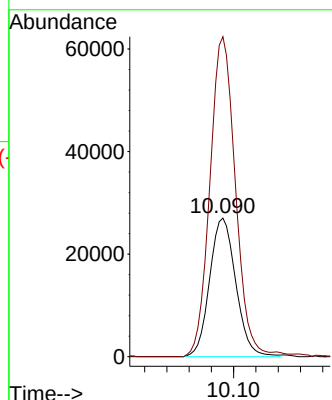
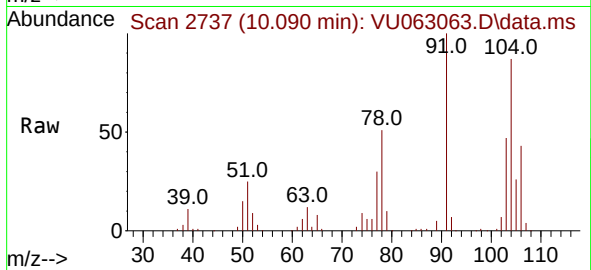
ClientSampleId :

Tgt Ion:106 Resp: 44108

Ion Ratio Lower Upper

106 100

91 230.9 160.4 297.8



#55

Styrene

Concen: 9.550 ug/L

RT: 10.103 min Scan# 2741

Delta R.T. -0.003 min

Lab File: VU063063.D

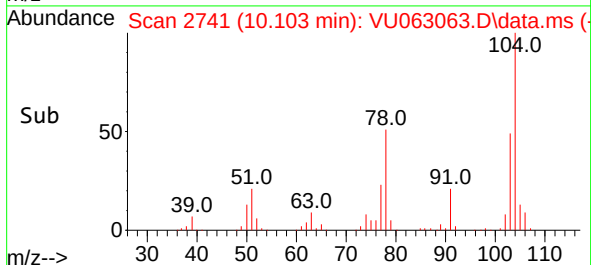
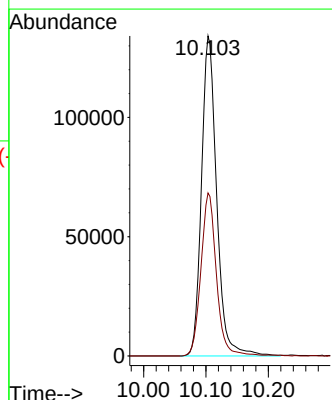
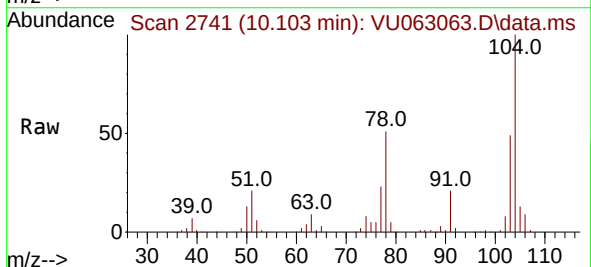
Acq: 28 Jan 2025 13:29

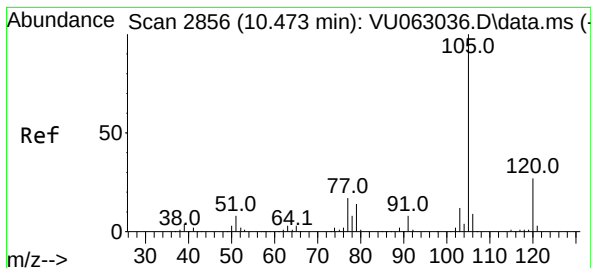
Tgt Ion:104 Resp: 227517

Ion Ratio Lower Upper

104 100

78 51.0 35.5 65.9





#60

Isopropylbenzene

Concen: 0.911 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.376 min

Lab File: VU063063.D

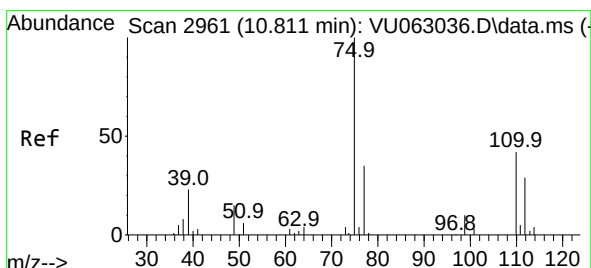
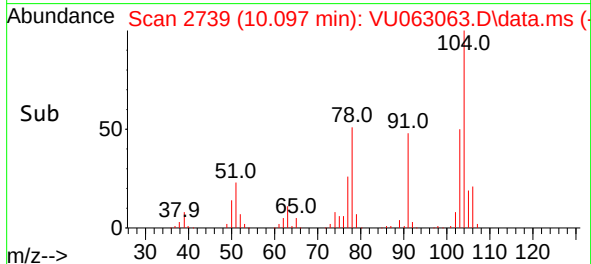
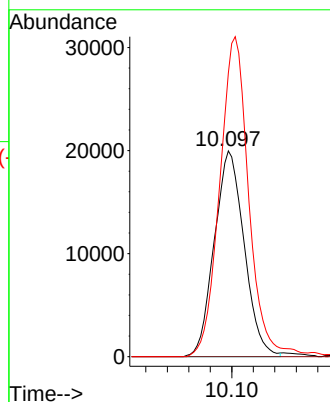
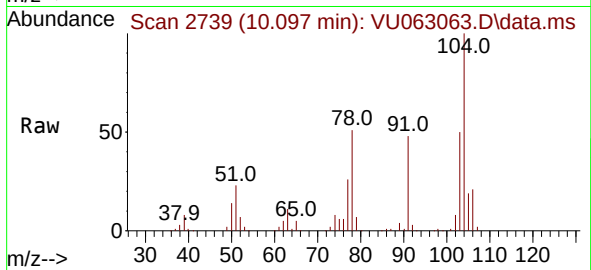
Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:105	Resp:	38467
Ion Ratio	Lower	Upper
105	100	
120	0.0	20.2 30.2#
77	151.4	13.0 19.4#



#61

1,2,3-Trichloropropane

Concen: 2.266 ug/L

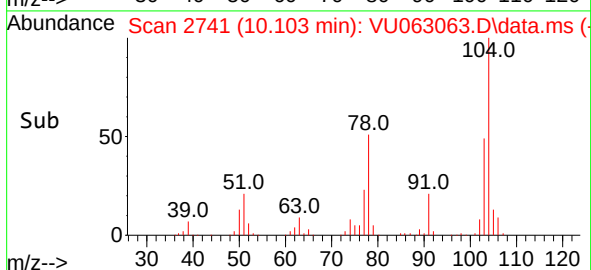
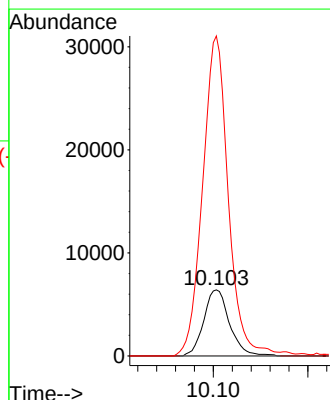
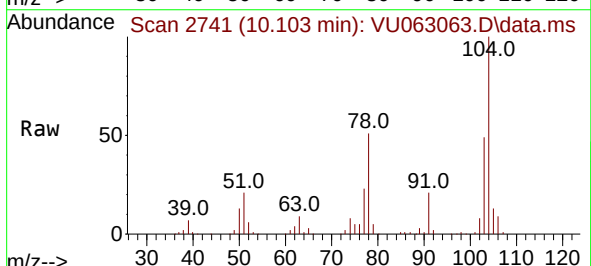
RT: 10.103 min Scan# 2741

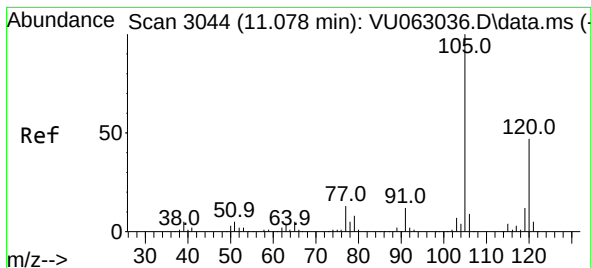
Delta R.T. -0.707 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Tgt Ion: 75	Resp:	12144
Ion Ratio	Lower	Upper
75	100	
110	0.0	33.2 49.8#
77	479.7	25.9 38.9#





#62

1,3,5-Trimethylbenzene

Concen: 1.039 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.981 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

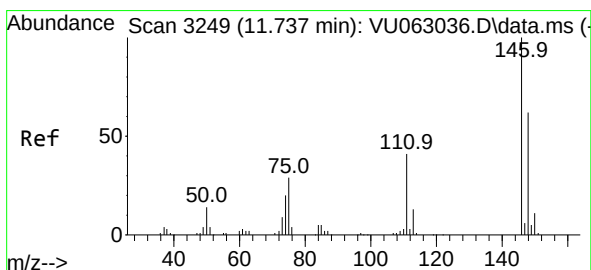
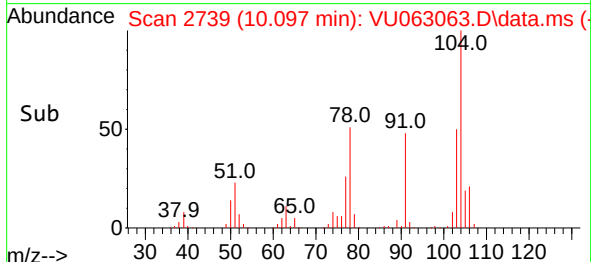
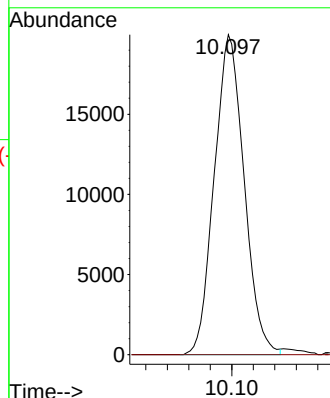
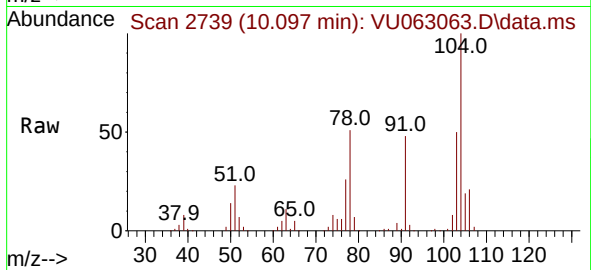
ClientSampleId :

Tgt Ion:105 Resp: 38467

Ion Ratio Lower Upper

105 100

120 0.0 35.9 53.9#



#64

1,3-Dichlorobenzene

Concen: 7.278 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.090 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

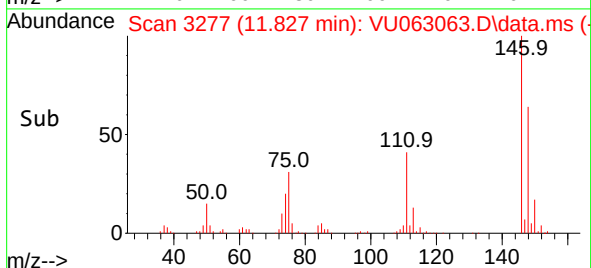
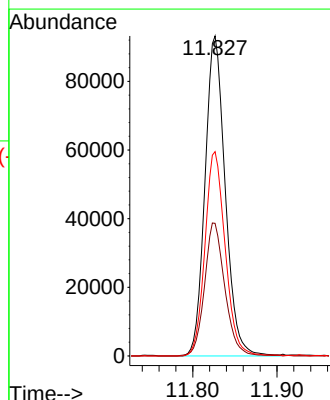
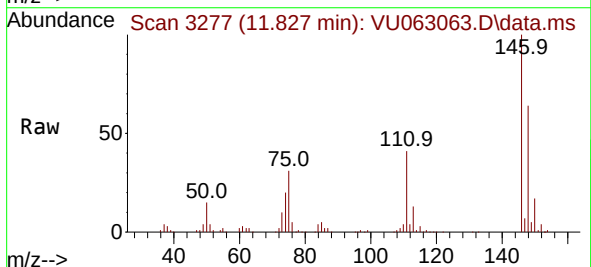
Tgt Ion:146 Resp: 155956

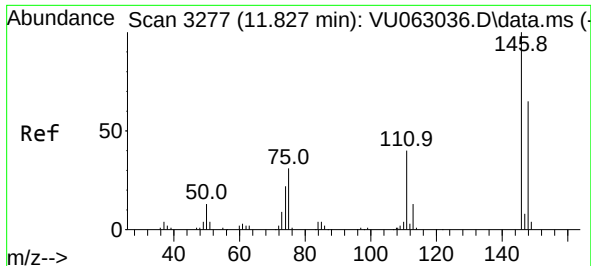
Ion Ratio Lower Upper

146 100

111 41.5 28.6 53.0

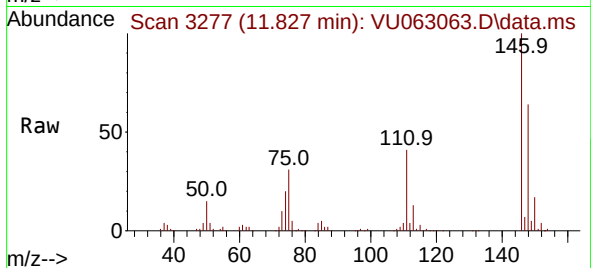
148 63.8 44.0 81.6



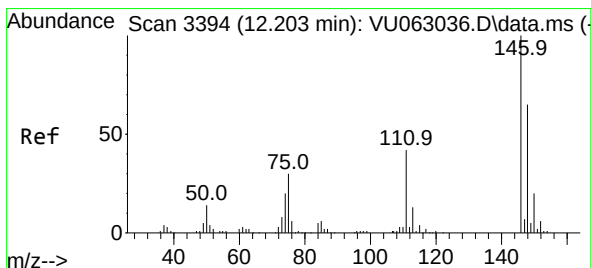
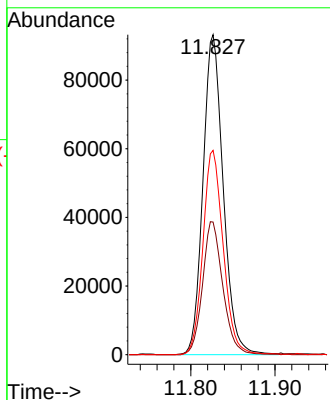
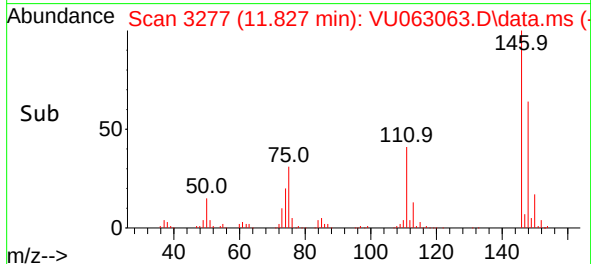


#65
1,4-Dichlorobenzene
Concen: 7.255 ug/L
RT: 11.827 min Scan# 3277
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

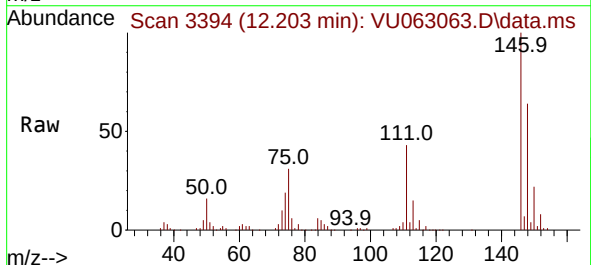
Instrument :
MSVOA_U
ClientSampleId :



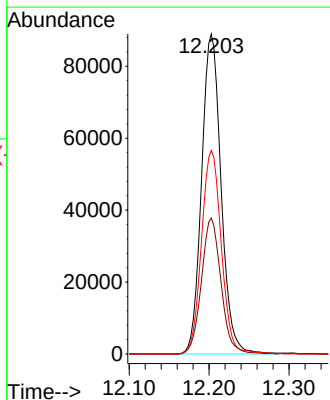
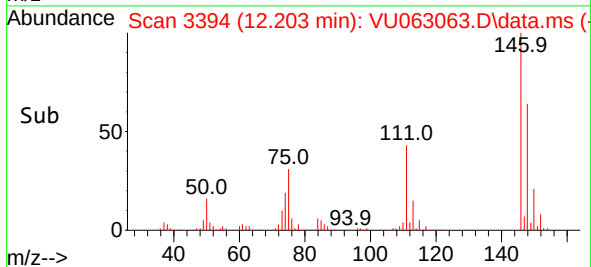
Tgt Ion:146 Resp: 155956
Ion Ratio Lower Upper
146 100
111 41.5 29.5 54.9
148 63.8 45.1 83.9

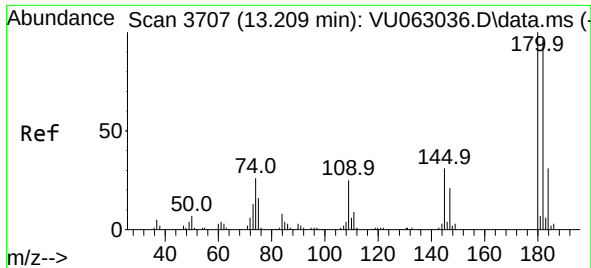


#67
1,2-Dichlorobenzene
Concen: 7.493 ug/L
RT: 12.203 min Scan# 3394
Delta R.T. 0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29



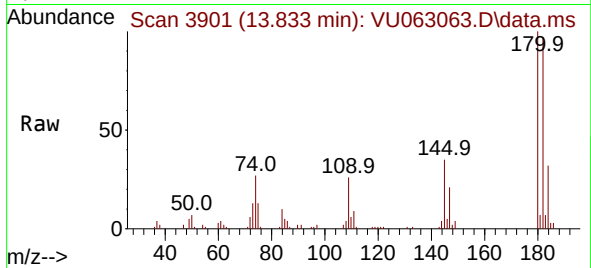
Tgt Ion:146 Resp: 151060
Ion Ratio Lower Upper
146 100
111 42.5 36.3 54.5
148 63.6 52.0 78.0



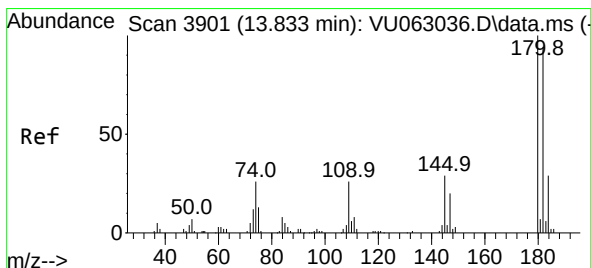
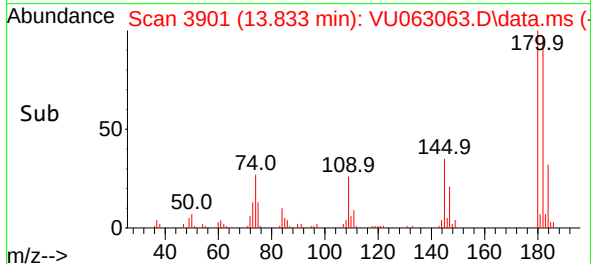
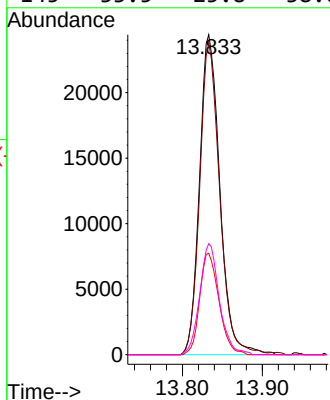


#69
 1,3,5-Trichlorobenzene
 Concen: 2.533 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. 0.624 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 43365
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.8 113.8
 184 29.9 24.7 37.1
 145 33.5 25.8 38.6



#70
 1,2,4-trichlorobenzene
 Concen: 3.237 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. 0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Tgt Ion:180 Resp: 43365
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.1 115.7
 145 33.5 26.9 40.3

