

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031924\
 Data File : VU058155.D
 Acq On : 19 Mar 2024 15:16
 Operator : MD/SY
 Sample : P1779-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 20 05:20:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Mar 20 05:19:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	129817	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	121753	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	52923	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	38775	4.151	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.000%
7) Chloroethane-d5	1.907	69	35652	4.644	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.800%
11) 1,1-Dichloroethene-d2	2.560	65	17750	4.392	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.800%
20) 2-Butanone-d5	4.615	46	80256	52.150	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.300%
24) Chloroform-d	5.052	84	83687	4.737	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.800%
26) 1,2-Dichloroethane-d4	5.692	65	38308	4.786	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.800%
32) Benzene-d6	5.718	84	166430	4.691	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.800%
36) 1,2-Dichloropropane-d6	6.682	67	51866	4.808	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.200%
41) Toluene-d8	7.891	98	139158	4.329	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.600%
43) trans-1,3-Dichloroprop...	8.174	79	14245	3.840	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.800%
46) 2-Hexanone-d5	8.627	63	64007	51.397	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.800%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	31707	4.794	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	42993	4.933	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.600%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	6336	0.640	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	35390	4.016	ug/L	99
12) 1,1-Dichloroethene	2.573	96	125087	15.970	ug/L #	76
16) Methylene chloride	3.039	84	4356	0.458	ug/L	97
17) Methyl tert-butyl Ether	3.348	73	4247	0.229	ug/L #	70
18) trans-1,2-Dichloroethene	3.351	96	3414	0.400	ug/L	90
19) 1,1-Dichloroethane	3.859	63	48588	2.855	ug/L	96
22) cis-1,2-Dichloroethene	4.653	96	731355	77.924	ug/L	99
25) Chloroform	5.078	83	55288	3.182	ug/L	100
29) 1,1,1-Trichloroethane	5.306	97	17804	1.229	ug/L	97
31) Carbon tetrachloride	5.518	117	10492	0.833	ug/L	96
34) Trichloroethene	6.538	95	8642116	879.140	ug/L	94
35) Methylcyclohexane	6.685	83	12341	0.819	ug/L #	20
37) 1,2-Dichloropropane	6.682	63	5574	0.579	ug/L #	89
45) 1,1,2-Trichloroethane	8.396	97	1570	0.275	ug/L	91
47) Tetrachloroethene	8.544	164	469402	68.827	ug/L	98
49) Dibromochloromethane	8.544	129	478319	70.739	ug/L #	10
60) Isopropylbenzene	11.287	105	4041	0.115	ug/L	93
61) 1,2,3-Trichloropropane	11.807	75	7934	1.830	ug/L #	66

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QLast Update : Wed Mar 20 05:19:57 2024
Response via : Initial Calibration

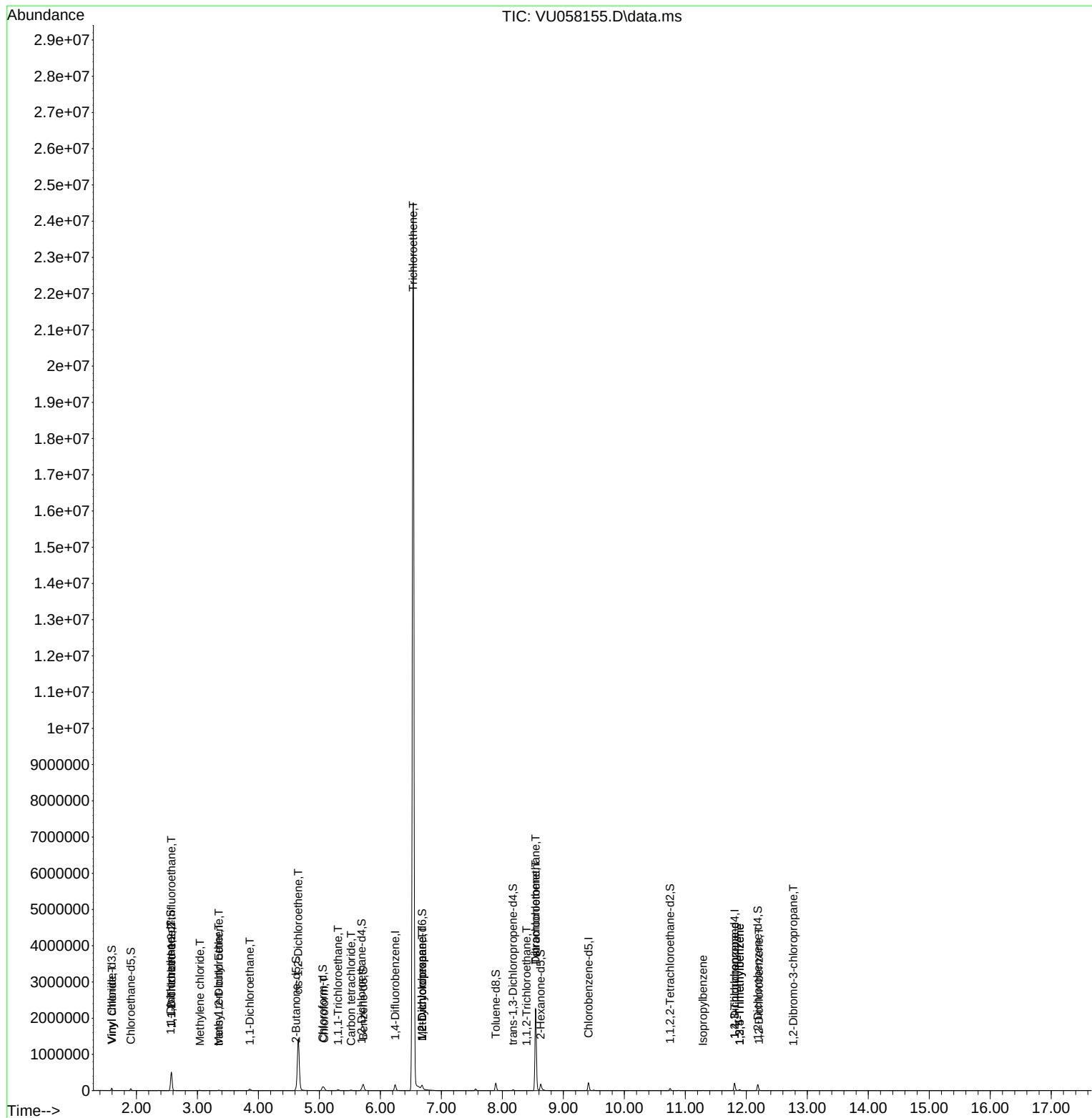
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.891	105	16860	0.567	ug/L	89
63) 1,2,4-Trimethylbenzene	11.891	105	16860	0.575	ug/L	93
67) 1,2-Dichlorobenzene	12.206	146	2548	0.182	ug/L #	88
68) 1,2-Dibromo-3-chloropr...	12.769	75	159	0.185	ug/L #	7

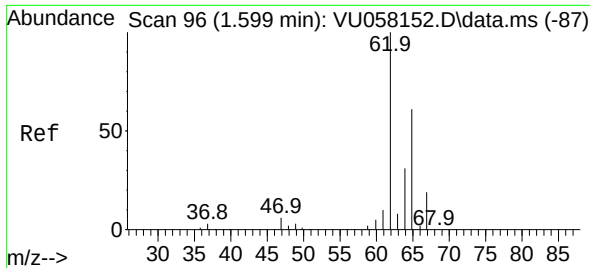
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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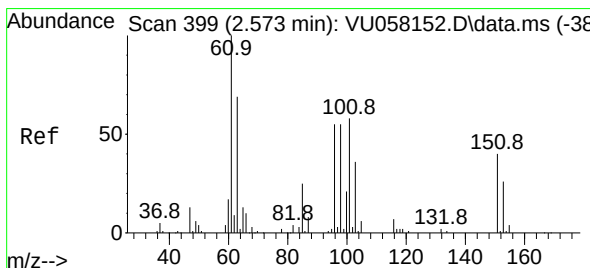
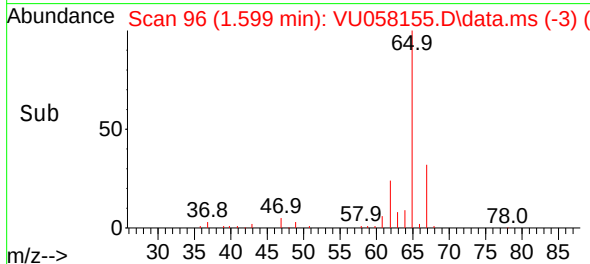
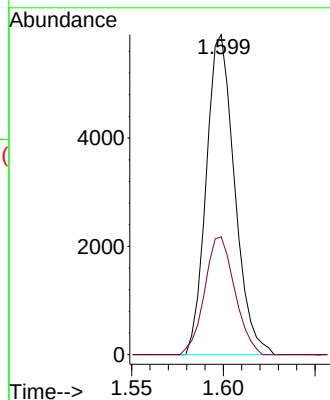
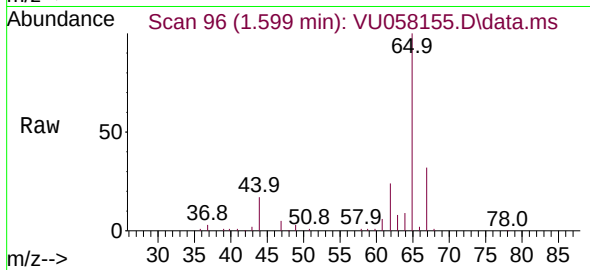




#5
 Vinyl chloride
 Concen: 0.640 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU058155.D
 Acq: 19 Mar 2024 15:16

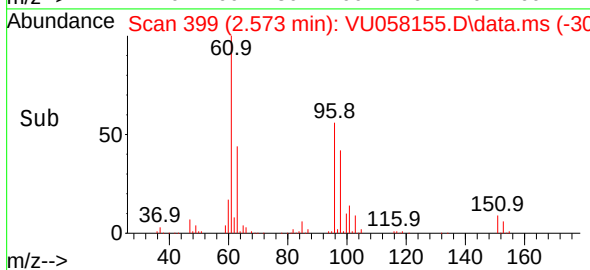
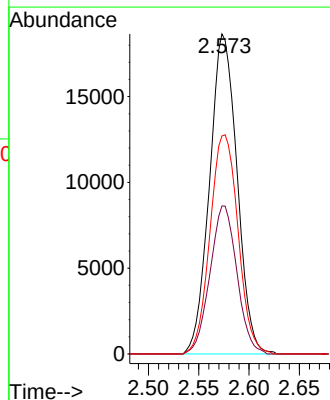
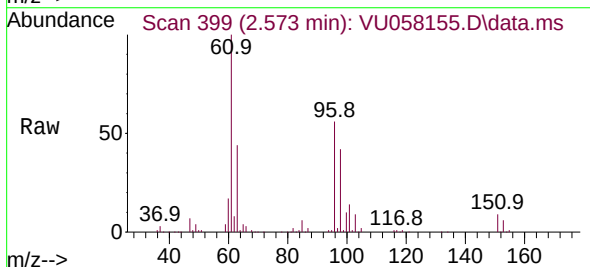
Instrument :
 MSVOA_U
 ClientSampleId :

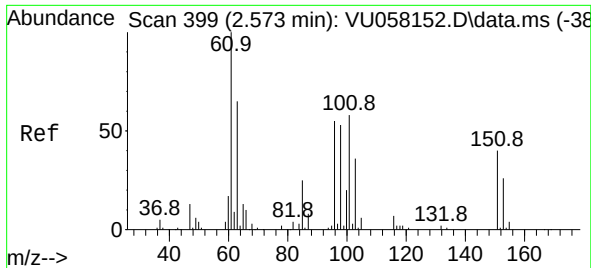
Tgt Ion: 62 Resp: 6336
 Ion Ratio Lower Upper
 62 100
 64 36.8 22.5 41.7



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 4.016 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: VU058155.D
 Acq: 19 Mar 2024 15:16

Tgt Ion: 101 Resp: 35390
 Ion Ratio Lower Upper
 101 100
 85 45.4 37.3 55.9
 151 70.1 56.0 84.0

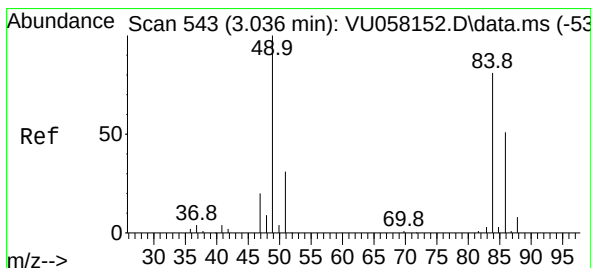
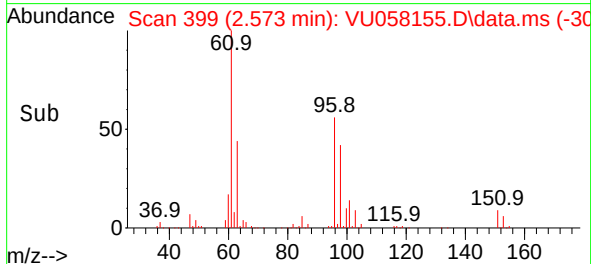
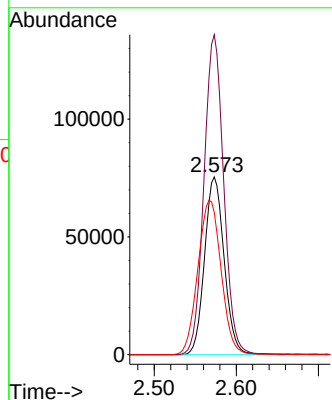
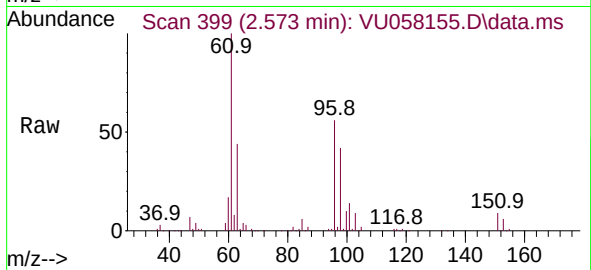




#12
1,1-Dichloroethene
Concen: 15.970 ug/L
RT: 2.573 min Scan# 399
Delta R.T. 0.000 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

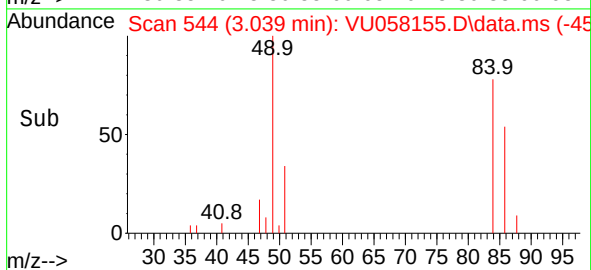
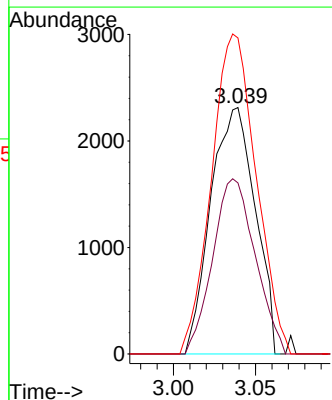
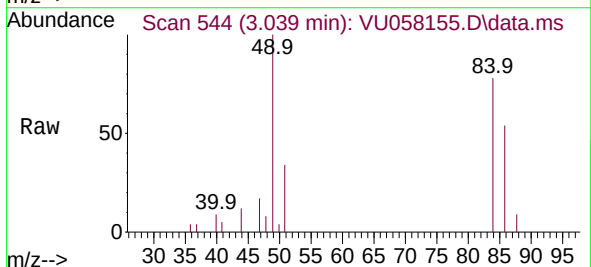
Instrument :
MSVOA_U
ClientSampleId :

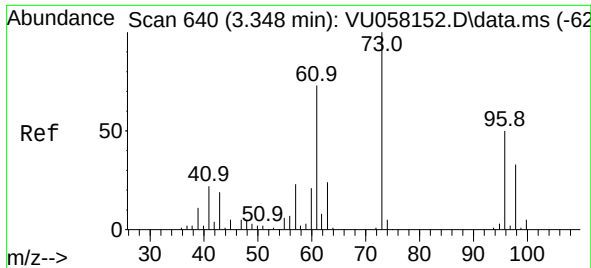
Tgt Ion: 96 Resp: 125087
Ion Ratio Lower Upper
96 100
61 180.0 131.8 244.8
63 79.9 98.1 182.1#



#16
Methylene chloride
Concen: 0.458 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.003 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

Tgt Ion: 84 Resp: 4356
Ion Ratio Lower Upper
84 100
86 69.4 44.4 82.4
49 128.2 88.8 165.0

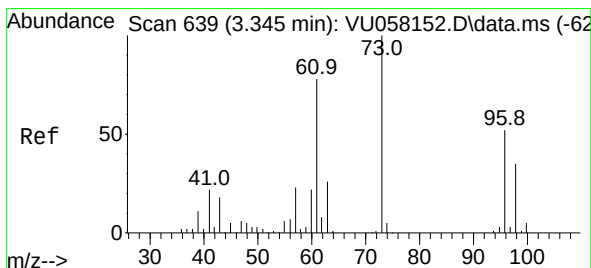
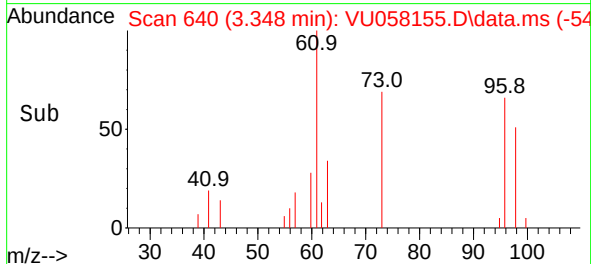
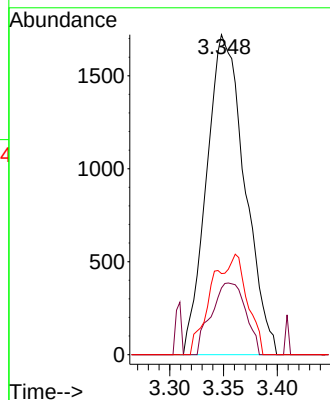
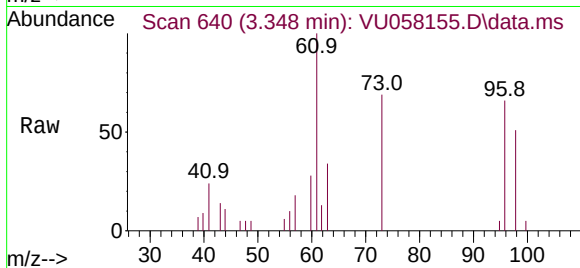




#17
Methyl tert-butyl Ether
Concen: 0.229 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

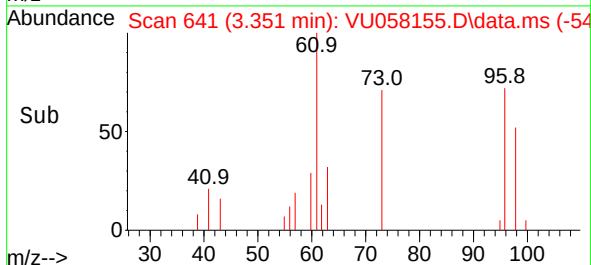
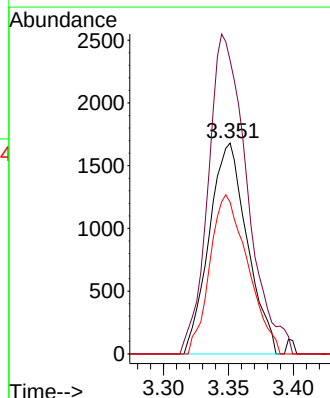
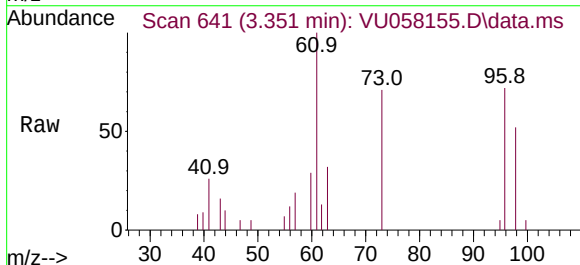
Instrument :
MSVOA_U
ClientSampleId :

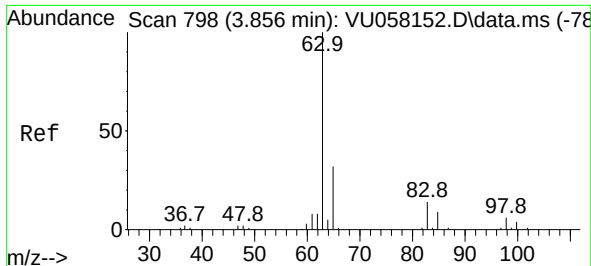
Tgt Ion: 73 Resp: 4247
Ion Ratio Lower Upper
73 100
43 2.4 16.2 24.4#
57 11.5 17.9 26.9#



#18
trans-1,2-Dichloroethene
Concen: 0.400 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.007 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

Tgt Ion: 96 Resp: 3414
Ion Ratio Lower Upper
96 100
61 139.2 107.7 199.9
98 72.0 45.8 85.0





#19

1,1-Dichloroethane

Concen: 2.855 ug/L

RT: 3.859 min Scan# 798

Delta R.T. 0.003 min

Lab File: VU058155.D

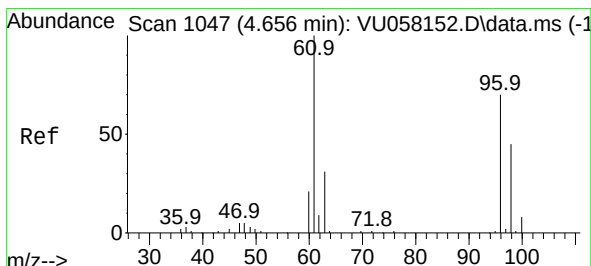
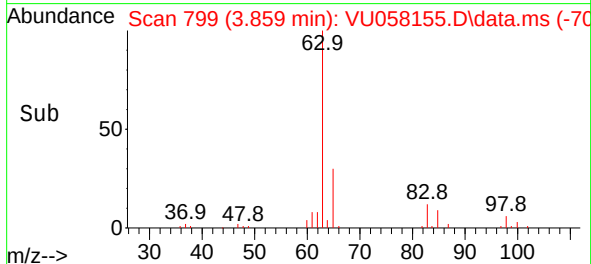
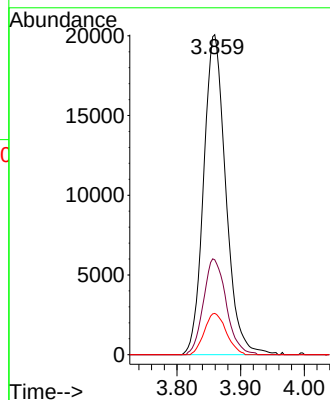
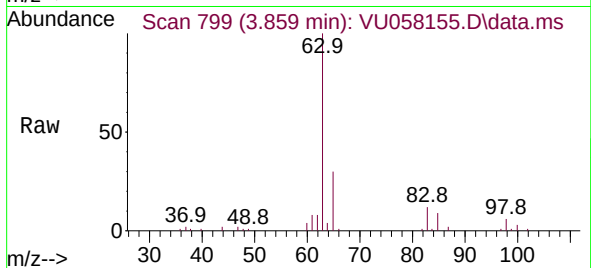
Acq: 19 Mar 2024 15:16

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	63	Resp:	48588
Ion Ratio	Lower	Upper	
63	100		
65	28.4	22.1	41.1
83	12.4	9.0	16.6



#22

cis-1,2-Dichloroethene

Concen: 77.924 ug/L

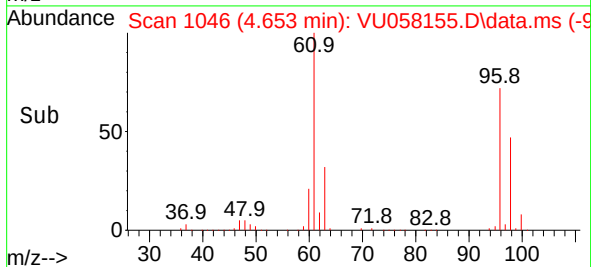
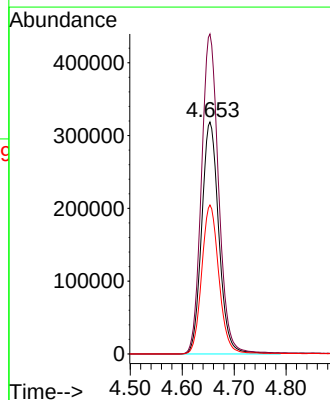
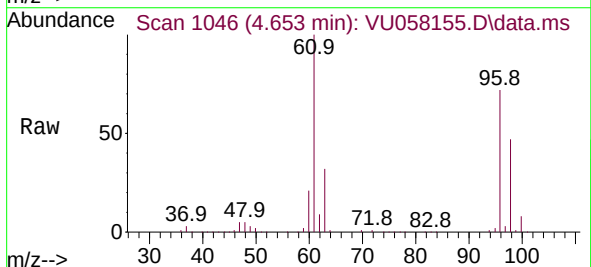
RT: 4.653 min Scan# 1046

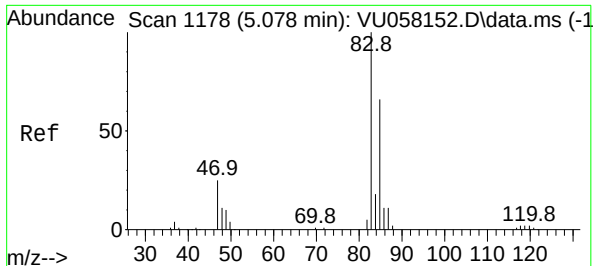
Delta R.T. -0.003 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

Tgt Ion:	96	Resp:	731355
Ion Ratio	Lower	Upper	
96	100		
61	138.0	97.2	180.4
98	64.2	45.5	84.5





#25

Chloroform

Concen: 3.182 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. 0.000 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

Instrument :

MSVOA_U

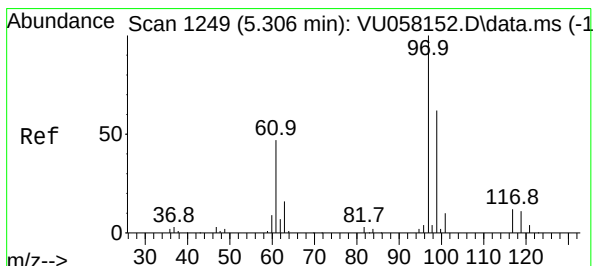
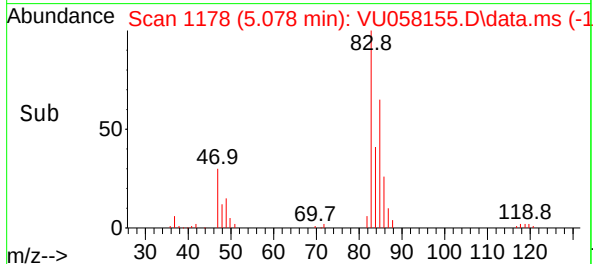
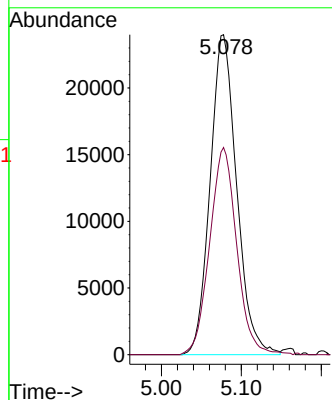
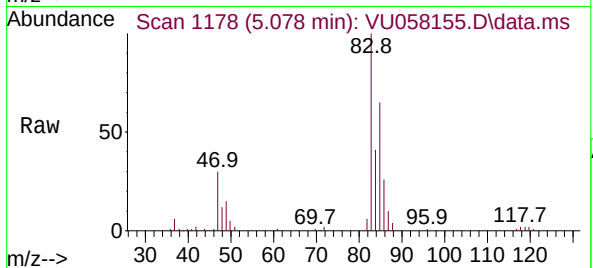
ClientSampleId :

Tgt Ion: 83 Resp: 55288

Ion Ratio Lower Upper

83 100

85 64.7 45.4 84.4



#29

1,1,1-Trichloroethane

Concen: 1.229 ug/L

RT: 5.306 min Scan# 1249

Delta R.T. 0.000 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

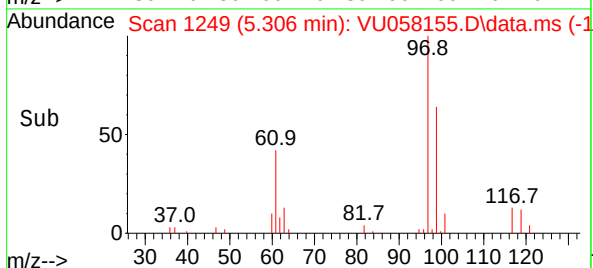
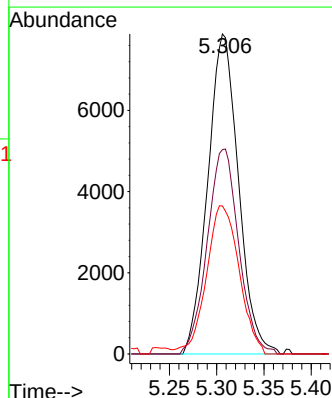
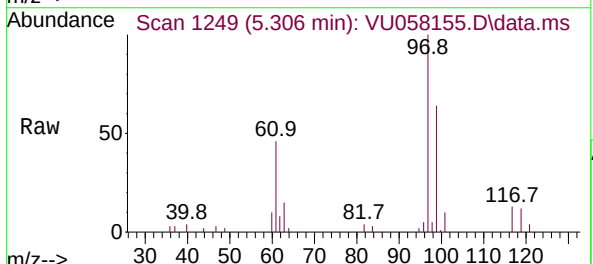
Tgt Ion: 97 Resp: 17804

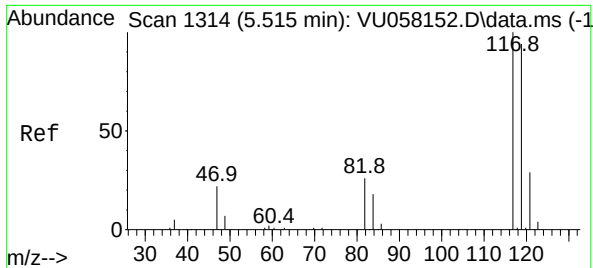
Ion Ratio Lower Upper

97 100

99 65.8 51.2 76.8

61 49.4 37.4 56.2

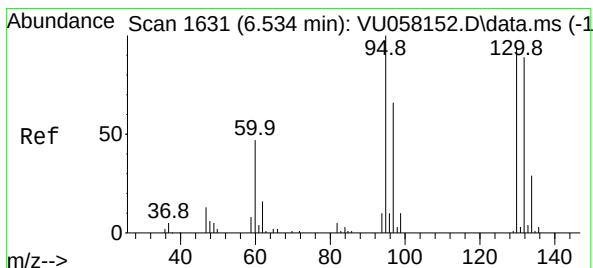
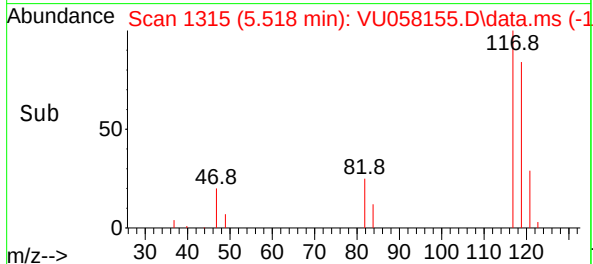
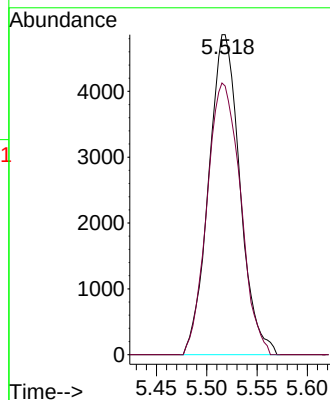
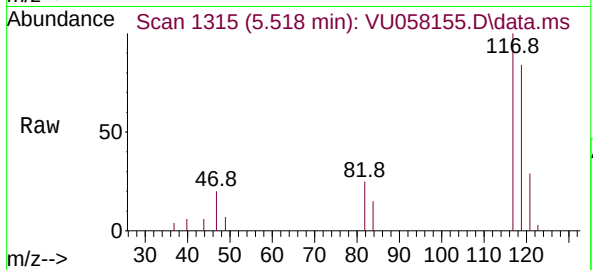




#31
Carbon tetrachloride
Concen: 0.833 ug/L
RT: 5.518 min Scan# 1314
Delta R.T. 0.003 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

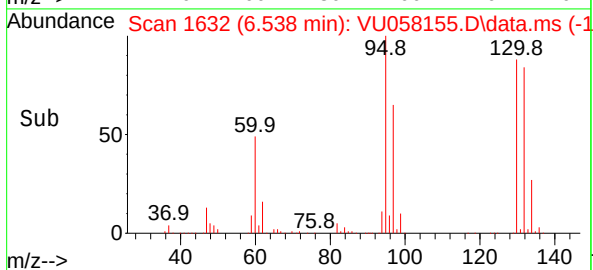
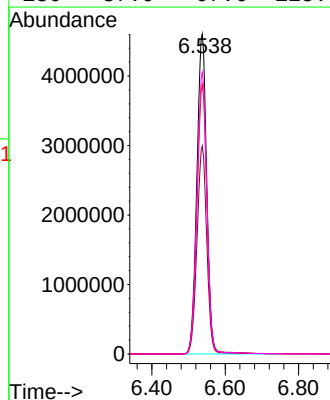
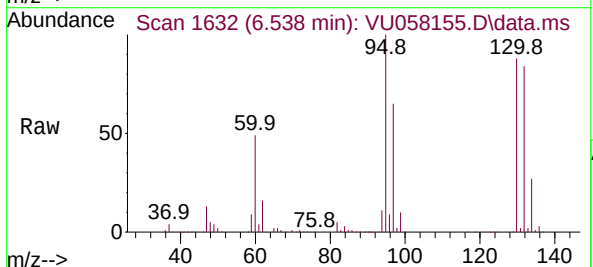
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MSVOA_U
ClientSampleId :

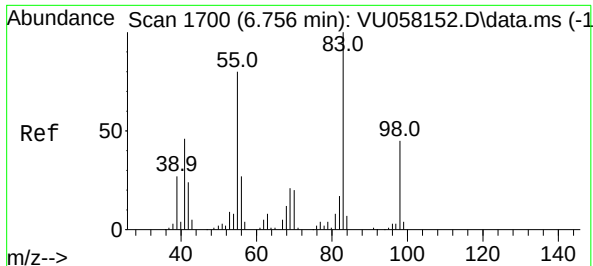
Tgt Ion:117 Resp: 10492
Ion Ratio Lower Upper
117 100
119 90.9 75.8 113.8



#34
Trichloroethene
Concen: 879.140 ug/L
RT: 6.538 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

Tgt Ion: 95 Resp: 8642116
Ion Ratio Lower Upper
95 100
97 64.9 45.3 84.1
132 84.2 63.1 117.1
130 87.9 67.6 125.6





#35

Methylcyclohexane

Concen: 0.819 ug/L

RT: 6.685 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

Instrument :

MSVOA_U

ClientSampleId :

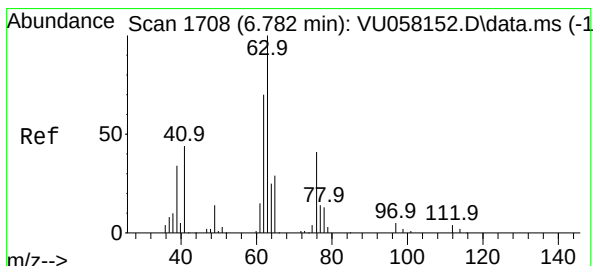
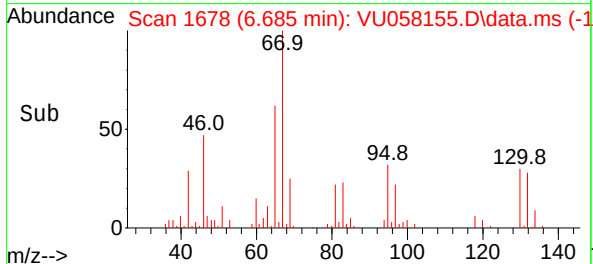
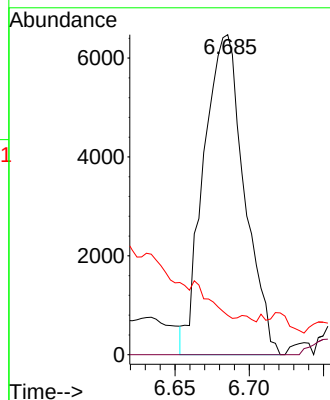
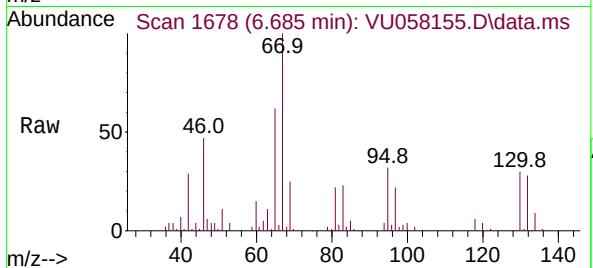
Tgt Ion: 83 Resp: 12341

Ion Ratio Lower Upper

83 100

55 3.8 63.0 94.6#

98 0.0 36.2 54.4#



#37

1,2-Dichloropropane

Concen: 0.579 ug/L

RT: 6.682 min Scan# 1677

Delta R.T. -0.099 min

Lab File: VU058155.D

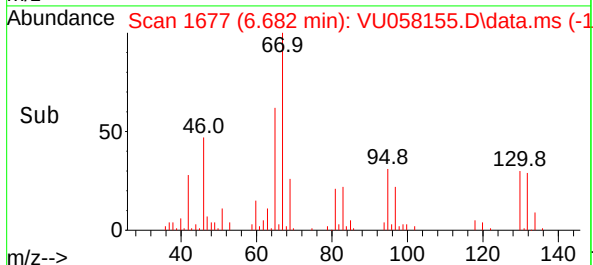
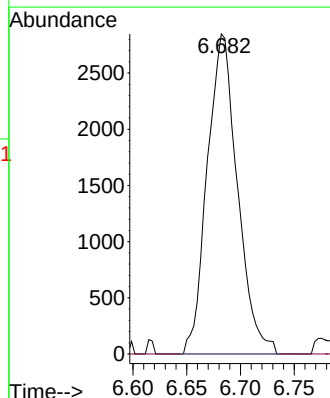
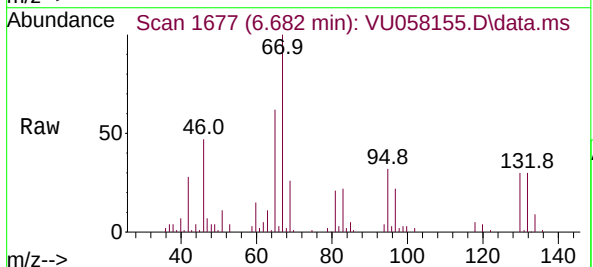
Acq: 19 Mar 2024 15:16

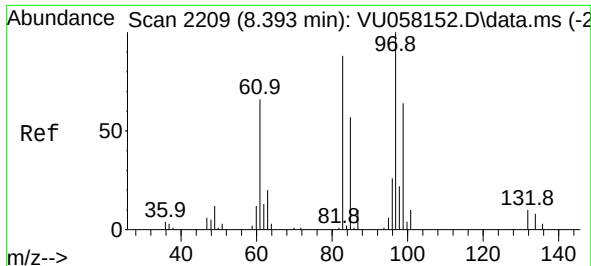
Tgt Ion: 63 Resp: 5574

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.4#



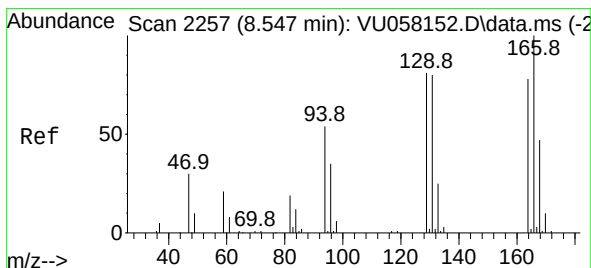
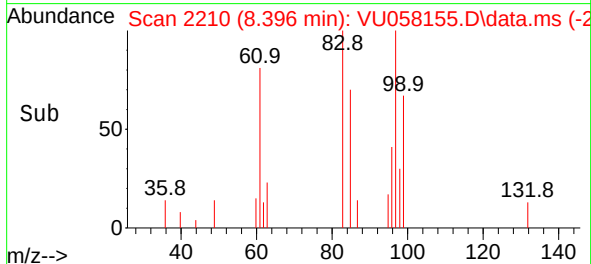
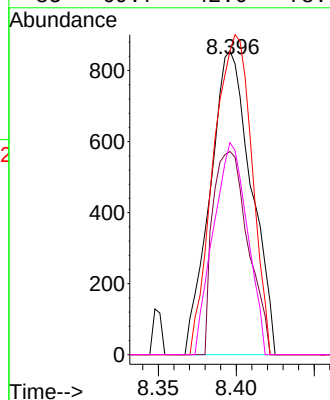
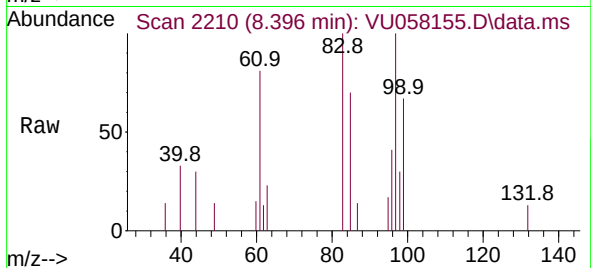


#45
1,1,2-Trichloroethane
Concen: 0.275 ug/L
RT: 8.396 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 97 Resp: 1570

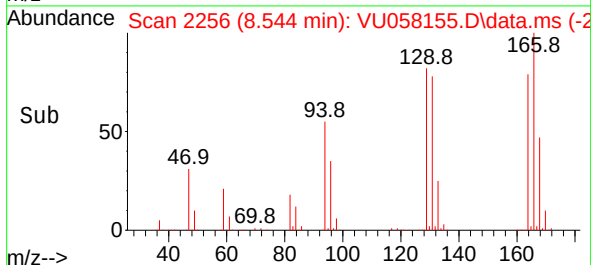
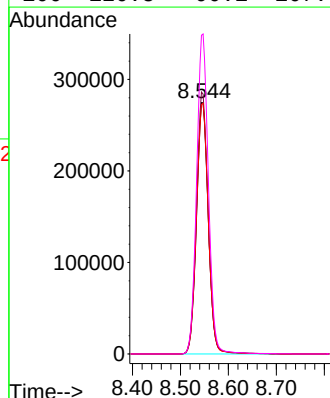
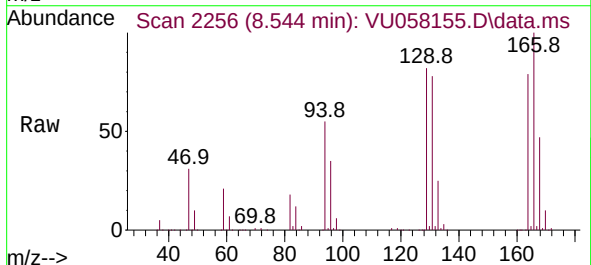
Ion	Ratio	Lower	Upper
97	100		
99	66.8	44.2	82.2
83	99.9	64.2	119.2
85	69.7	42.0	78.0

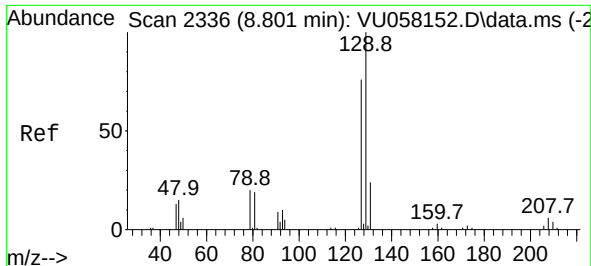


#47
Tetrachloroethene
Concen: 68.827 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. -0.003 min
Lab File: VU058155.D
Acq: 19 Mar 2024 15:16

Tgt Ion: 164 Resp: 469402

Ion	Ratio	Lower	Upper
164	100		
129	104.2	69.3	128.7
131	99.3	69.9	129.9
166	126.8	90.1	167.3





#49

Dibromochloromethane

Concen: 70.739 ug/L

RT: 8.544 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

Instrument :

MSVOA_U

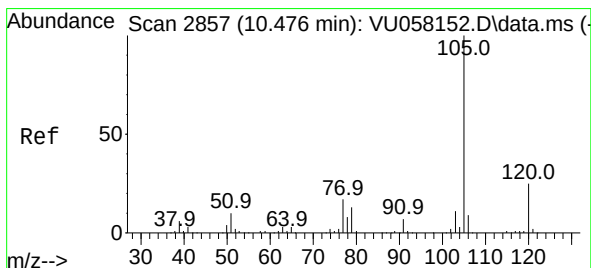
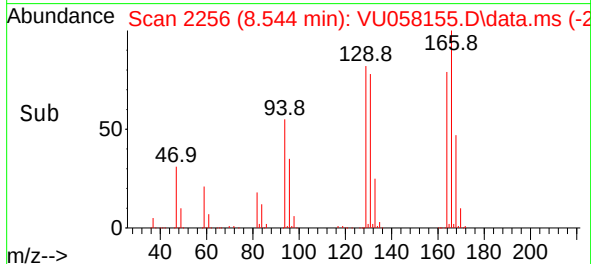
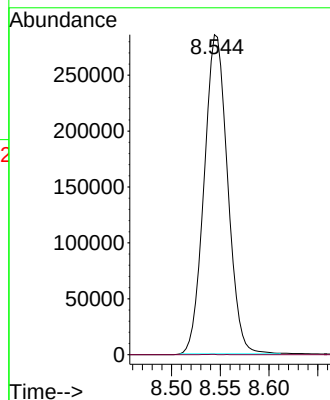
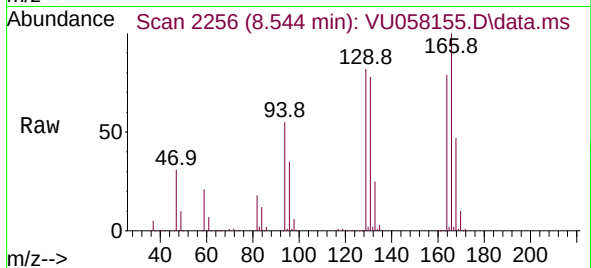
ClientSampleId :

Tgt Ion:129 Resp: 478319

Ion Ratio Lower Upper

129 100

127 0.1 55.2 102.6#



#60

Isopropylbenzene

Concen: 0.115 ug/L

RT: 11.287 min Scan# 3109

Delta R.T. 0.810 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

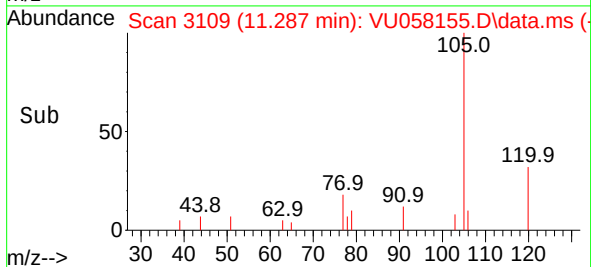
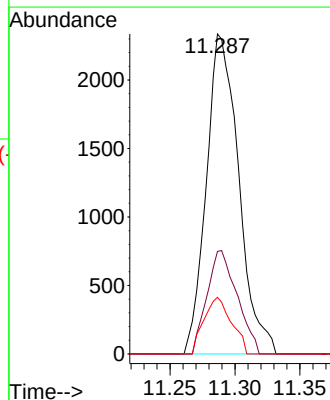
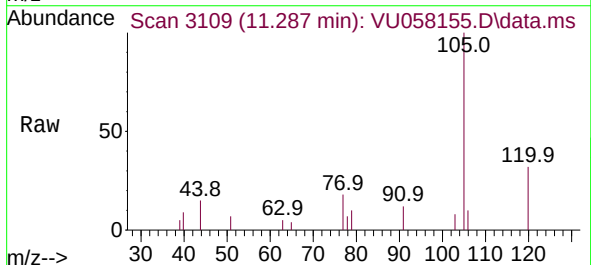
Tgt Ion:105 Resp: 4041

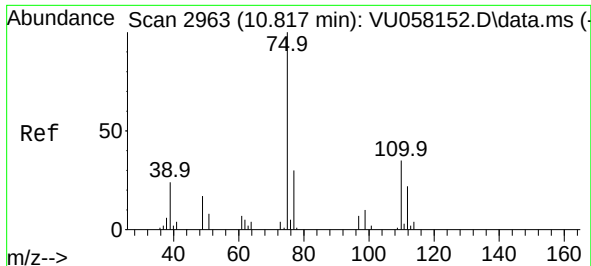
Ion Ratio Lower Upper

105 100

120 30.1 20.4 30.6

77 15.0 13.2 19.8





#61

1,2,3-Trichloropropane

Concen: 1.830 ug/L

RT: 11.807 min Scan# 31

Delta R.T. 0.991 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

Instrument :

MSVOA_U

ClientSampleId :

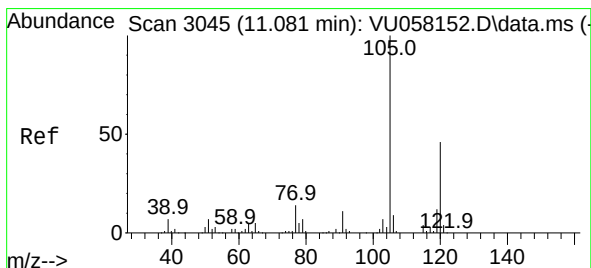
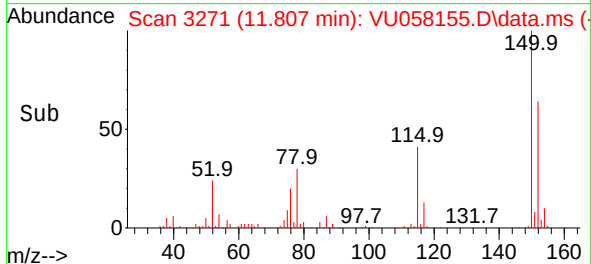
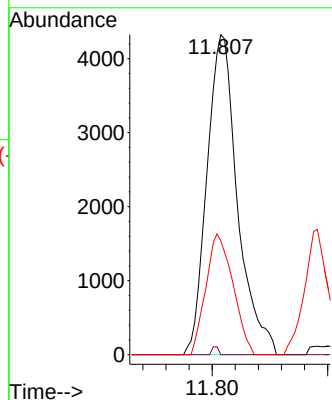
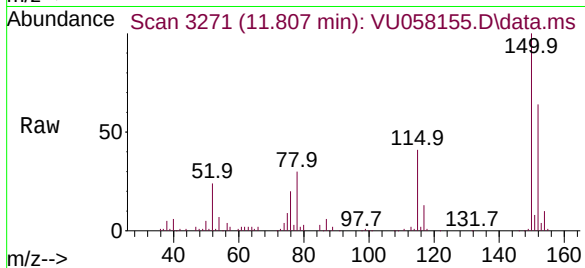
Tgt Ion: 75 Resp: 7934

Ion Ratio Lower Upper

75 100

110 0.5 28.0 42.0#

77 33.4 24.7 37.1



#62

1,3,5-Trimethylbenzene

Concen: 0.567 ug/L

RT: 11.891 min Scan# 3297

Delta R.T. 0.810 min

Lab File: VU058155.D

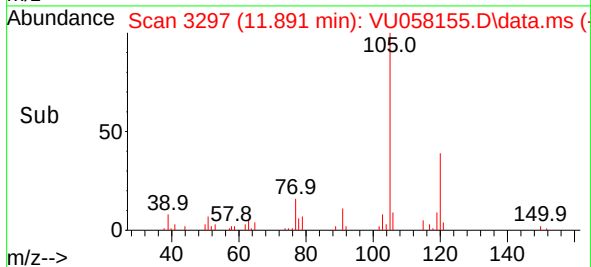
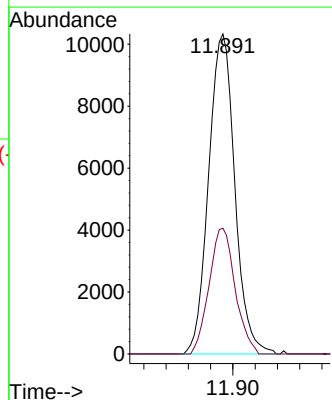
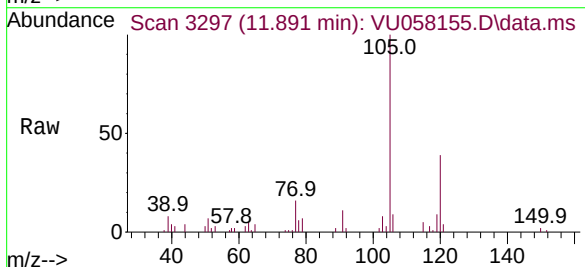
Acq: 19 Mar 2024 15:16

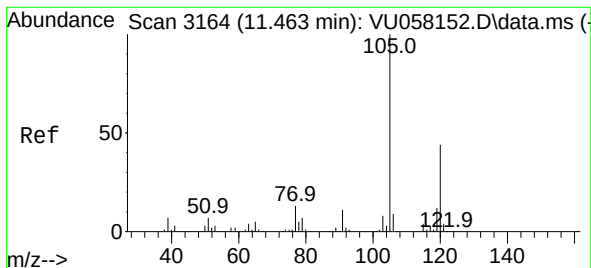
Tgt Ion:105 Resp: 16860

Ion Ratio Lower Upper

105 100

120 39.1 37.1 55.7





#63

1,2,4-Trimethylbenzene

Concen: 0.575 ug/L

RT: 11.891 min Scan# 3164

Delta R.T. 0.428 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

Instrument :

MSVOA_U

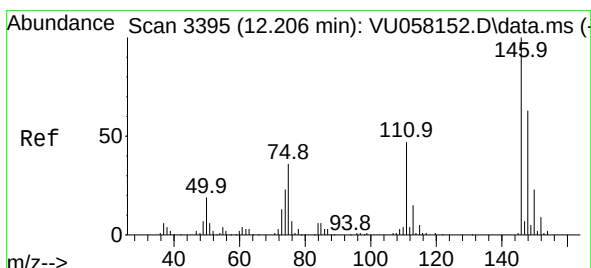
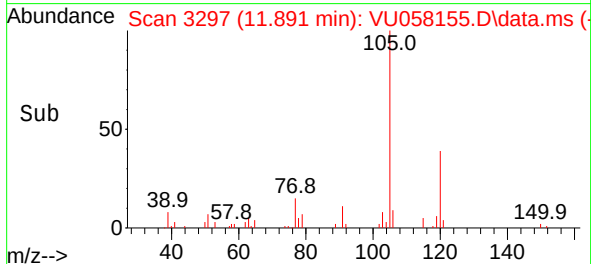
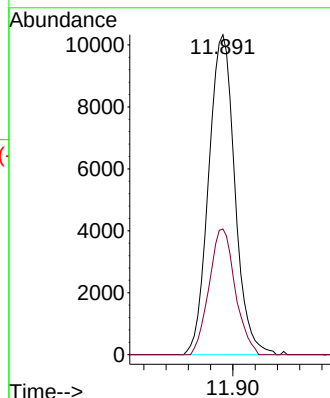
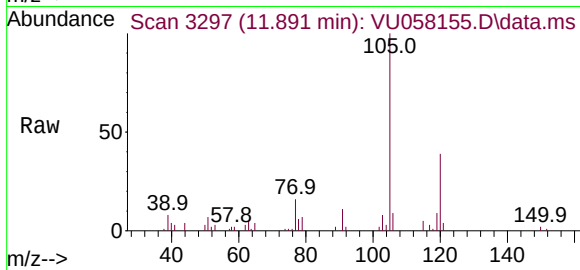
ClientSampleId :

Tgt Ion:105 Resp: 16860

Ion Ratio Lower Upper

105 100

120 39.1 34.8 52.2



#67

1,2-Dichlorobenzene

Concen: 0.182 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU058155.D

Acq: 19 Mar 2024 15:16

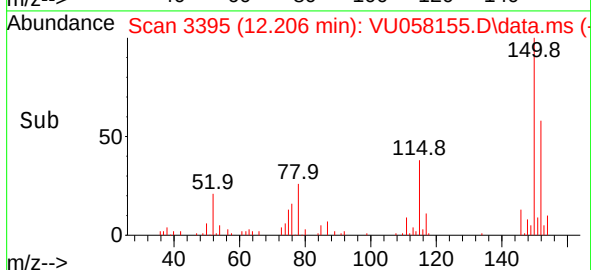
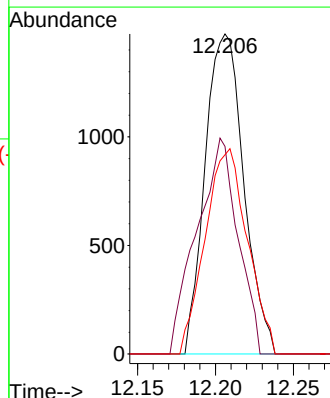
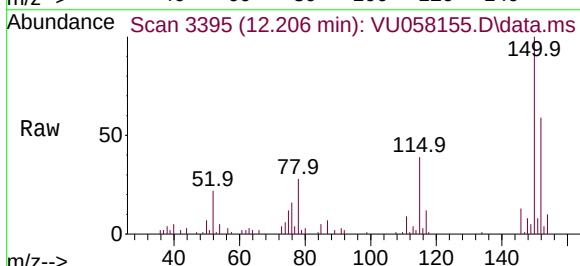
Tgt Ion:146 Resp: 2548

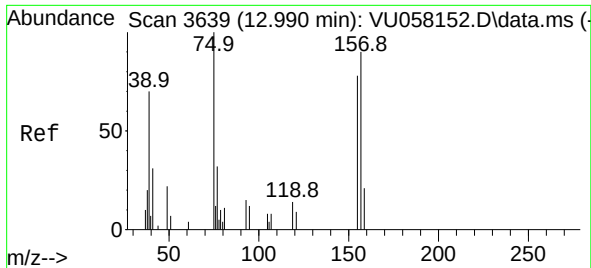
Ion Ratio Lower Upper

146 100

111 64.9 37.4 56.0#

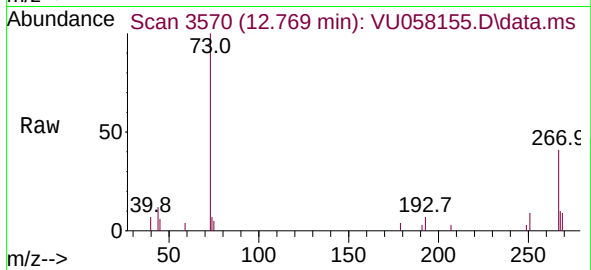
148 62.3 50.8 76.2





#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.185 ug/L
 RT: 12.769 min Scan# 3570
 Delta R.T. -0.222 min
 Lab File: VU058155.D
 Acq: 19 Mar 2024 15:16

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 159
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.0 91.6#
 157 0.0 74.6 112.0#

