

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032224\
 Data File : VU058204.D
 Acq On : 22 Mar 2024 20:19
 Operator : MD/SY
 Sample : P1841-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 22 23:48:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 22 23:43:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	88002	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	83049	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	37907	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	29895	4.020	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.400%
7) Chloroethane-d5	1.911	69	26686	4.396	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.000%
11) 1,1-Dichloroethene-d2	2.563	65	12897	4.177	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.600%
20) 2-Butanone-d5	4.624	46	63965	48.415	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.840%
24) Chloroform-d	5.055	84	59213	4.454	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.000%
26) 1,2-Dichloroethane-d4	5.692	65	28814	4.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.800%
32) Benzene-d6	5.718	84	118077	4.377	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.600%
36) 1,2-Dichloropropane-d6	6.682	67	36515	4.593	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.800%
41) Toluene-d8	7.891	98	100794	4.218	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.400%
43) trans-1,3-Dichloroprop...	8.174	79	11483	4.508	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.200%
46) 2-Hexanone-d5	8.627	63	50183	48.646	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.300%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	23900	4.615	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	34303	4.859	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	2219	0.440	ug/L #	80
10) 1,1,2-Trichloro-1,2,2-...	2.576	101	15223	2.893	ug/L	98
12) 1,1-Dichloroethene	2.576	96	45768	10.374	ug/L #	72
16) Methylene chloride	3.039	84	3544	0.567	ug/L	91
17) Methyl tert-butyl Ether	3.354	73	2314	0.195	ug/L #	92
18) trans-1,2-Dichloroethene	3.351	96	1378	0.299	ug/L	92
19) 1,1-Dichloroethane	3.862	63	21380	2.064	ug/L	98
22) cis-1,2-Dichloroethene	4.656	96	296875	52.107	ug/L	98
25) Chloroform	5.078	83	30240	2.784	ug/L	95
29) 1,1,1-Trichloroethane	5.309	97	7255	0.845	ug/L	94
31) Carbon tetrachloride	5.515	117	7104	0.972	ug/L	98
34) Trichloroethene	6.534	95	3417737	601.426	ug/L	96
35) Methylcyclohexane	6.682	83	8117	1.024	ug/L #	19
37) 1,2-Dichloropropane	6.682	63	4009	0.658	ug/L #	90
45) 1,1,2-Trichloroethane	8.399	97	988	0.257	ug/L	88
47) Tetrachloroethene	8.547	164	201774	53.011	ug/L	99
49) Dibromochloromethane	8.547	129	201649	48.016	ug/L #	10
54) o-Xylene	10.097	106	1326	0.143	ug/L	80
60) Isopropylbenzene	10.483	105	2595	0.114	ug/L	97

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QLast Update : Fri Mar 22 23:43:24 2024
Response via : Initial Calibration

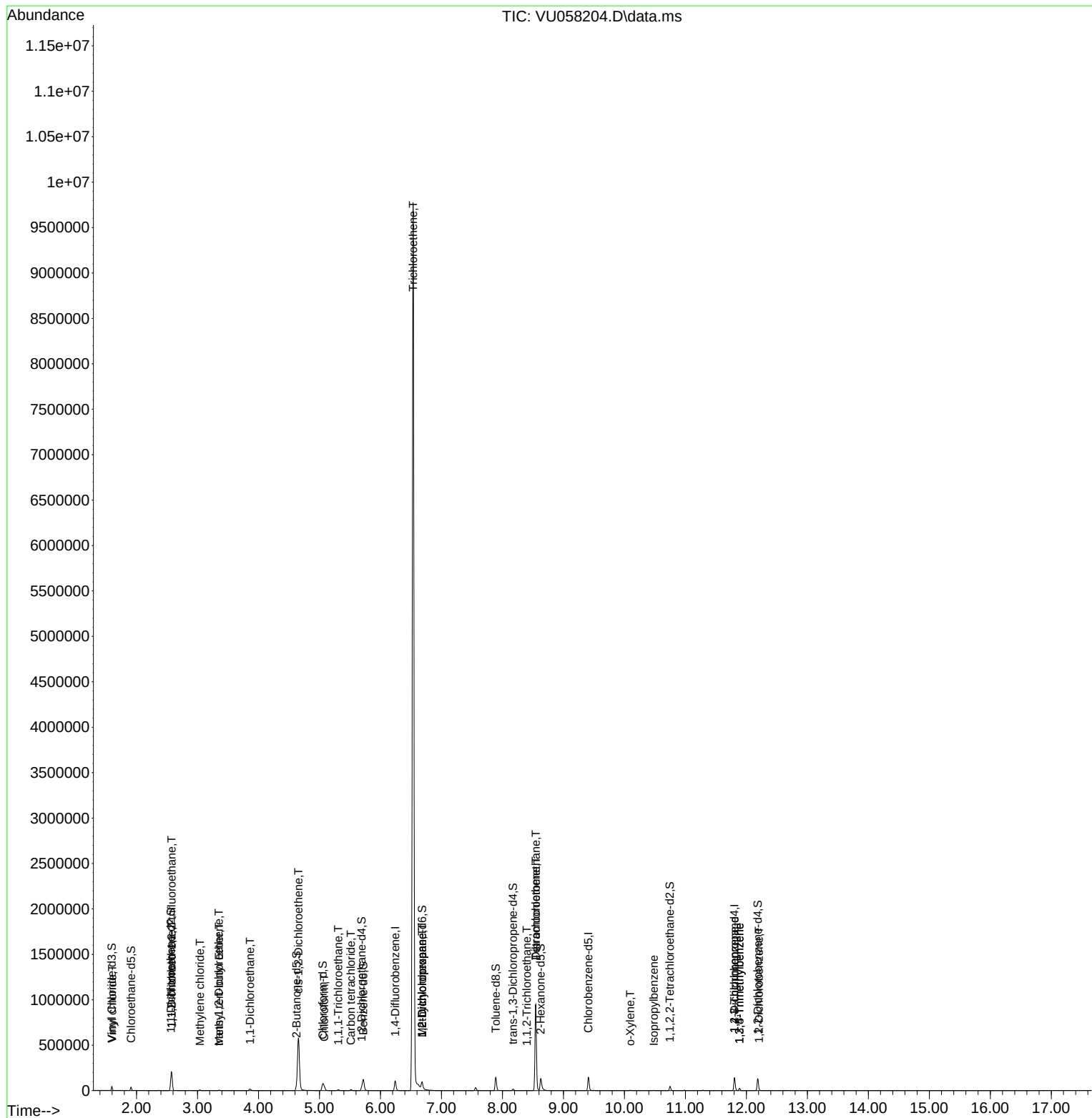
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.804	75	5424	1.709	ug/L #	66
62) 1,3,5-Trimethylbenzene	11.888	105	15332	0.802	ug/L	91
63) 1,2,4-Trimethylbenzene	11.888	105	15332	0.808	ug/L	93
67) 1,2-Dichlorobenzene	12.206	146	2618	0.267	ug/L	97

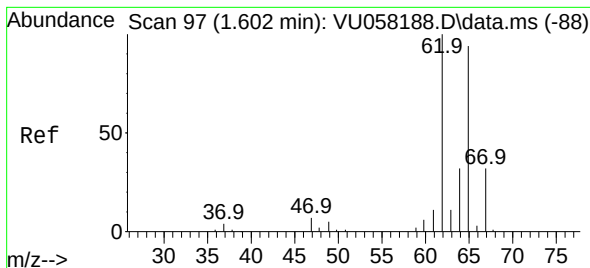
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.440 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

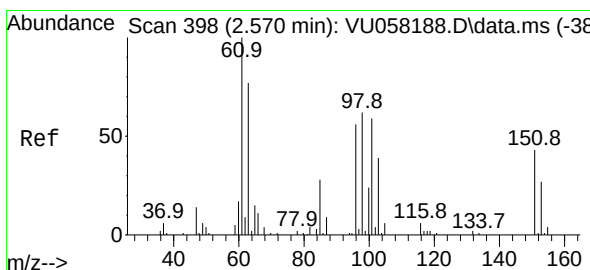
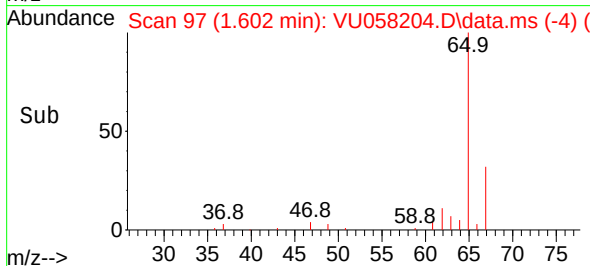
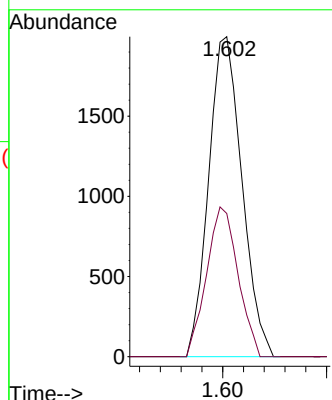
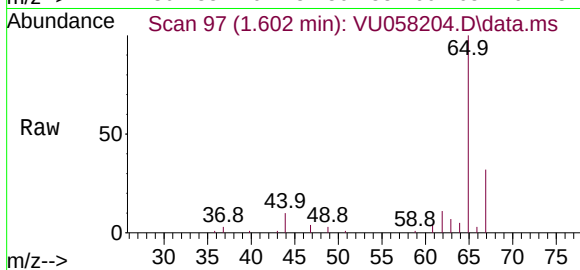
ClientSampleId :

Tgt Ion: 62 Resp: 2219

Ion Ratio Lower Upper

62 100

64 44.7 23.4 43.6#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.893 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.006 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

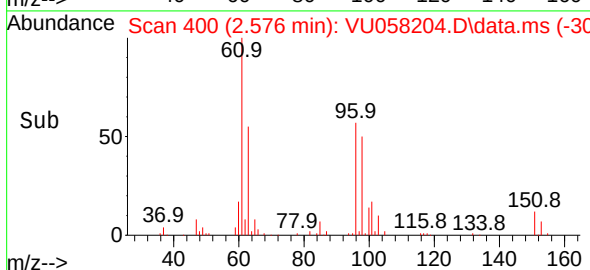
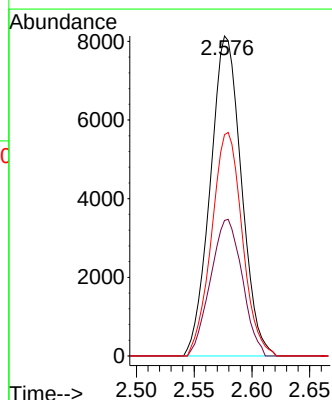
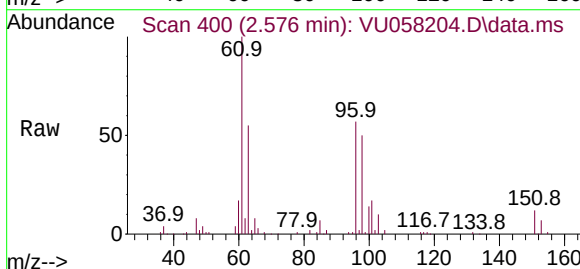
Tgt Ion:101 Resp: 15223

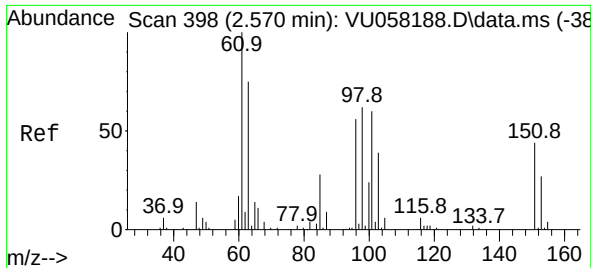
Ion Ratio Lower Upper

101 100

85 43.5 37.9 56.9

151 69.0 55.3 82.9





#12

1,1-Dichloroethene

Concen: 10.374 ug/L

RT: 2.576 min Scan# 40

Delta R.T. 0.006 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

ClientSampleId :

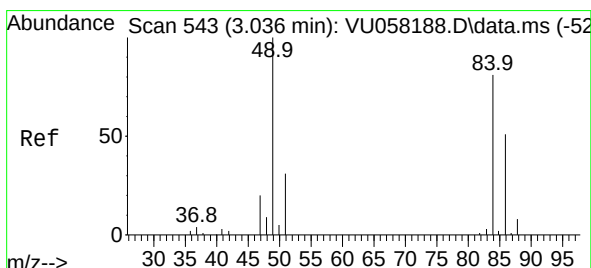
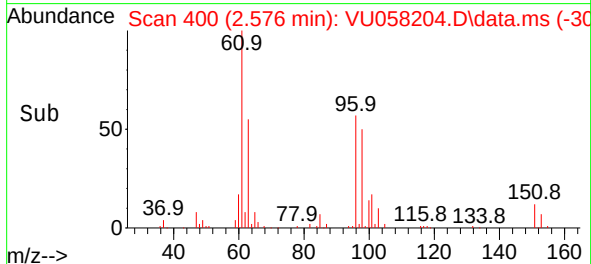
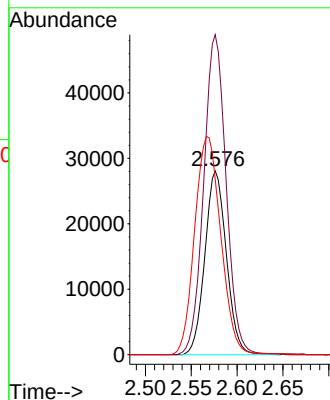
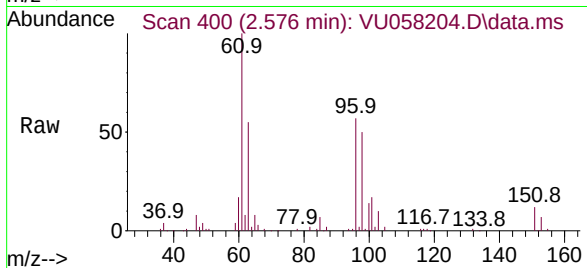
Tgt Ion: 96 Resp: 45768

Ion Ratio Lower Upper

96 100

61 174.0 128.1 237.9

63 95.3 116.8 217.0#



#16

Methylene chloride

Concen: 0.567 ug/L

RT: 3.039 min Scan# 544

Delta R.T. 0.003 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

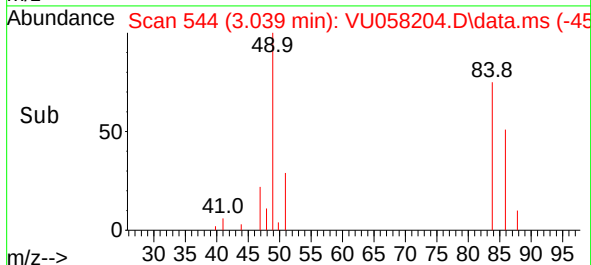
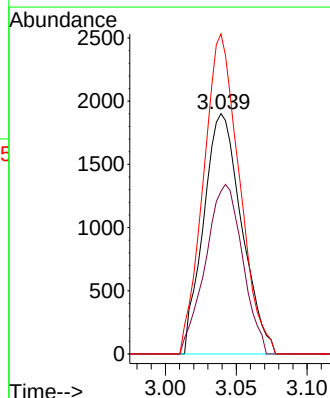
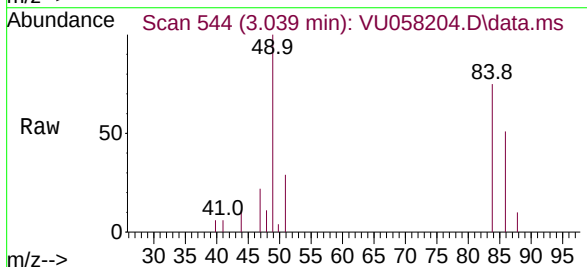
Tgt Ion: 84 Resp: 3544

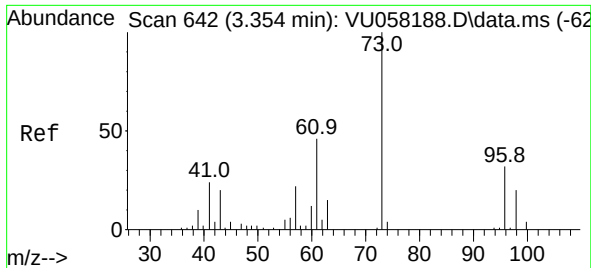
Ion Ratio Lower Upper

84 100

86 67.7 45.6 84.6

49 138.9 88.3 163.9





#17

Methyl tert-butyl Ether

Concen: 0.195 ug/L

RT: 3.354 min Scan# 642

Delta R.T. -0.000 min

Lab File: VU058204.D

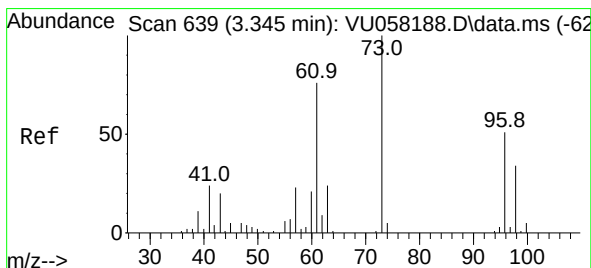
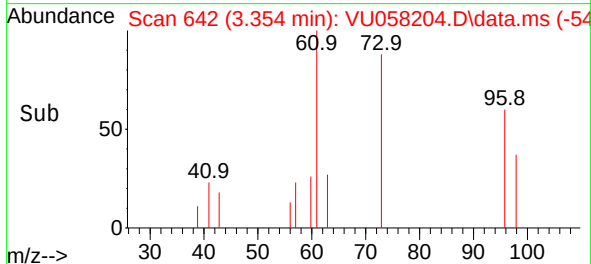
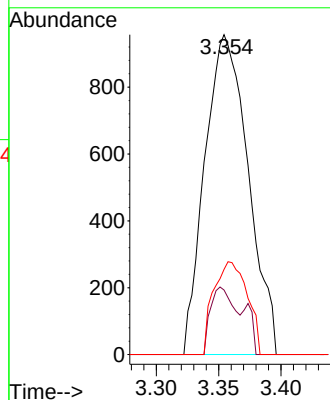
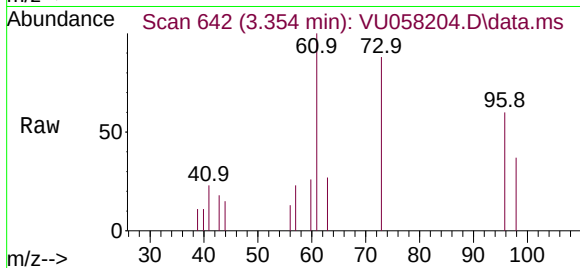
Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 73	Resp:	2314
Ion	Ratio	Lower Upper
73	100	
43	11.8	15.5 23.3#
57	22.6	18.0 27.0



#18

trans-1,2-Dichloroethene

Concen: 0.299 ug/L

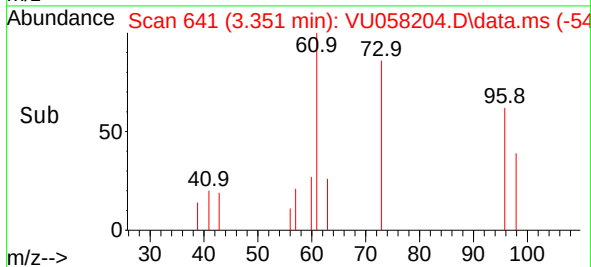
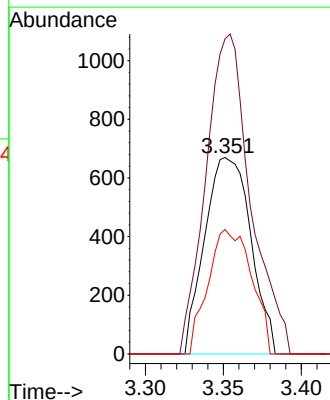
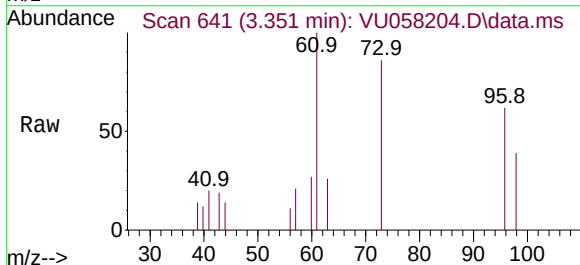
RT: 3.351 min Scan# 641

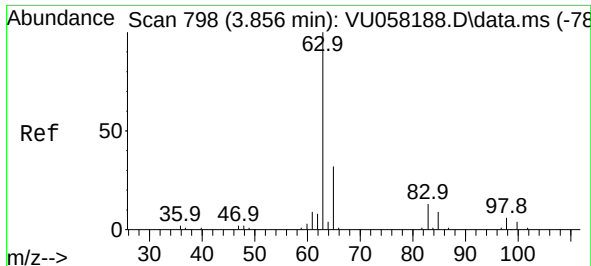
Delta R.T. 0.006 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Tgt Ion: 96	Resp:	1378
Ion	Ratio	Lower Upper
96	100	
61	160.3	102.5 190.3
98	63.3	44.0 81.8





#19

1,1-Dichloroethane

Concen: 2.064 ug/L

RT: 3.862 min Scan# 80

Delta R.T. 0.006 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

ClientSampleId :

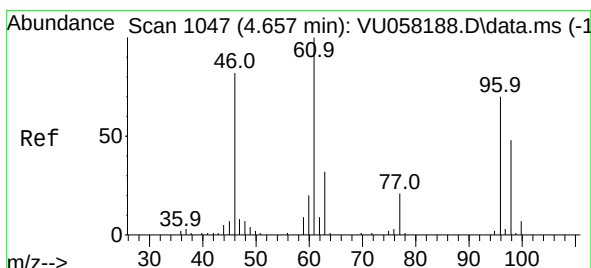
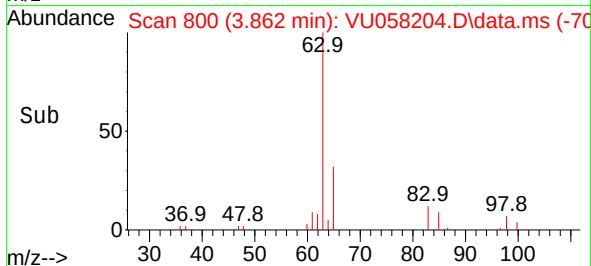
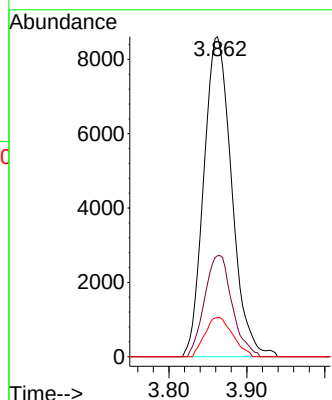
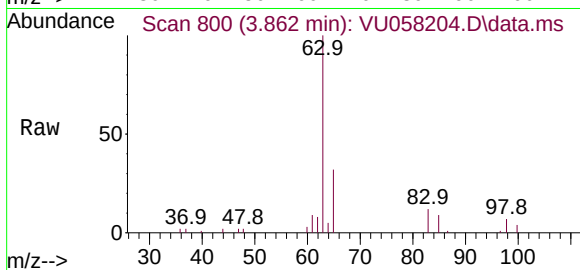
Tgt Ion: 63 Resp: 21380

Ion Ratio Lower Upper

63 100

65 31.6 22.3 41.5

83 12.3 10.0 18.6



#22

cis-1,2-Dichloroethene

Concen: 52.107 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. -0.000 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

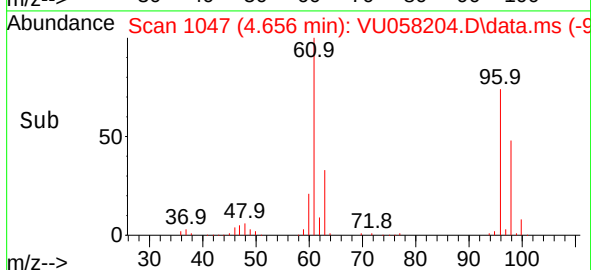
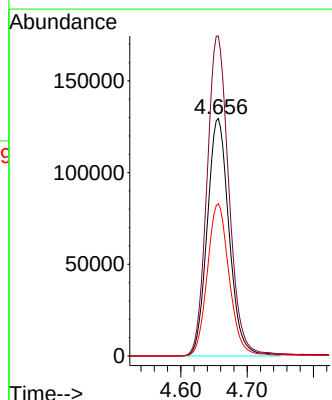
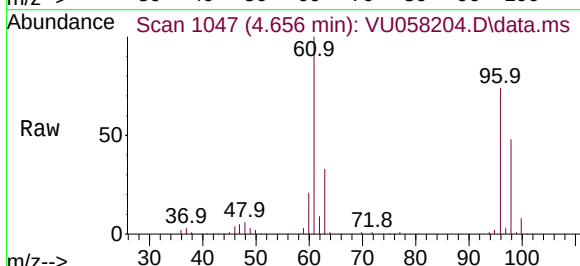
Tgt Ion: 96 Resp: 296875

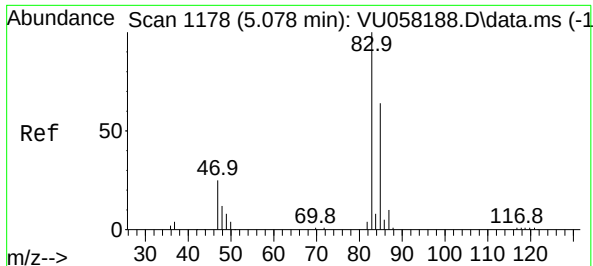
Ion Ratio Lower Upper

96 100

61 134.7 92.8 172.4

98 64.1 43.2 80.2





#25

Chloroform

Concen: 2.784 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. -0.000 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

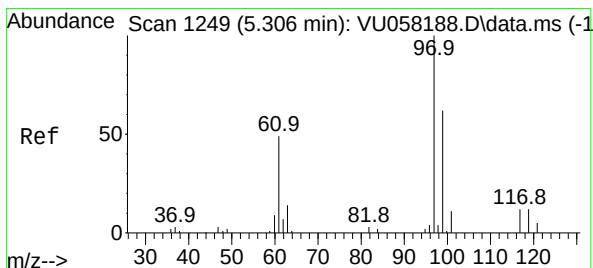
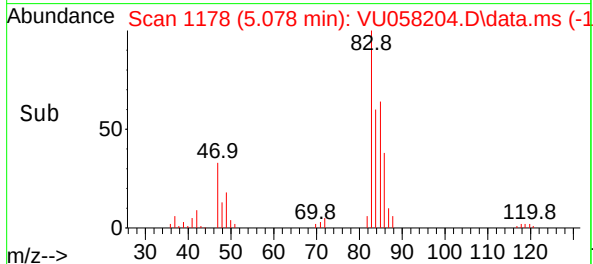
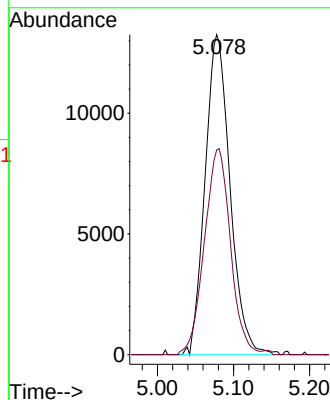
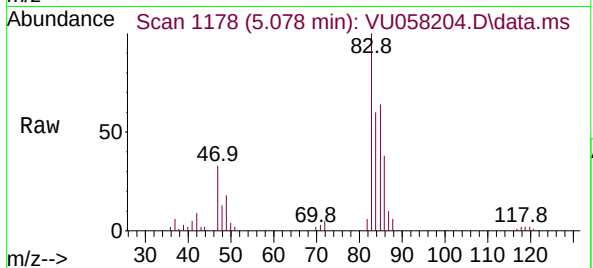
ClientSampleId :

Tgt Ion: 83 Resp: 30240

Ion Ratio Lower Upper

83 100

85 64.0 47.9 88.9



#29

1,1,1-Trichloroethane

Concen: 0.845 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. 0.003 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

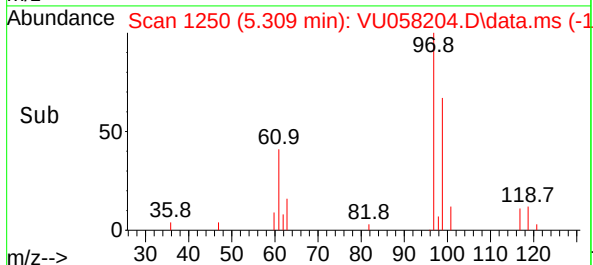
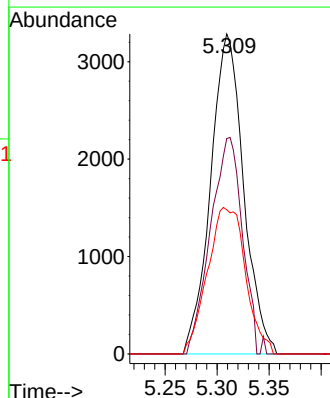
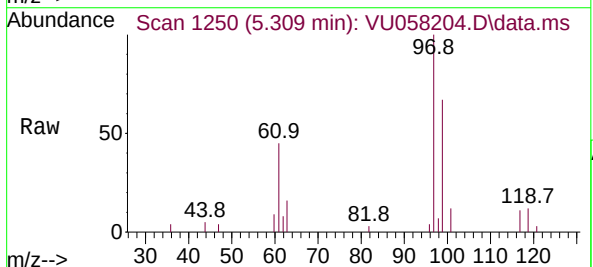
Tgt Ion: 97 Resp: 7255

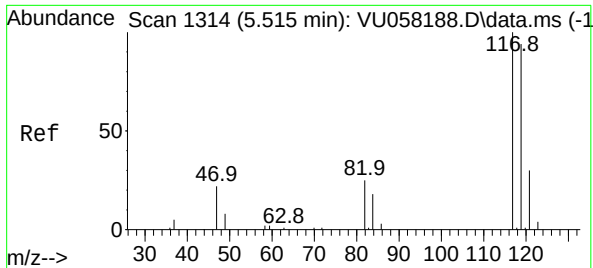
Ion Ratio Lower Upper

97 100

99 65.0 50.5 75.7

61 52.7 36.3 54.5

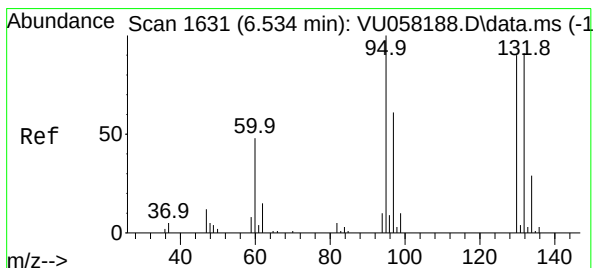
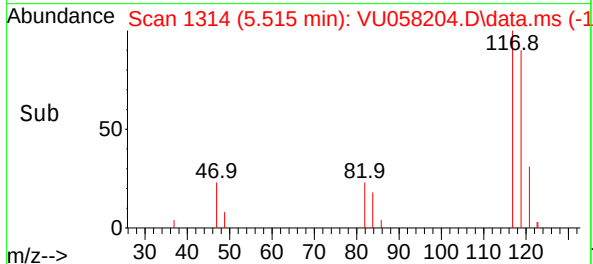
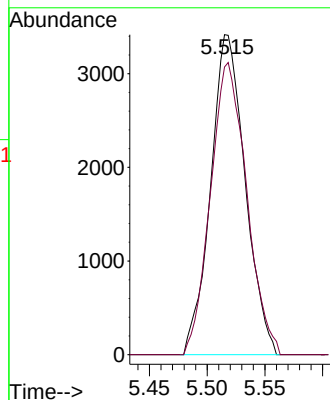
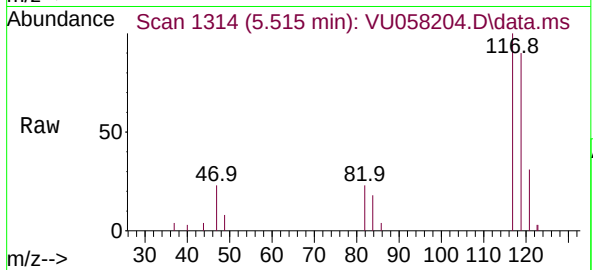




#31
Carbon tetrachloride
Concen: 0.972 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VU058204.D
Acq: 22 Mar 2024 20:19

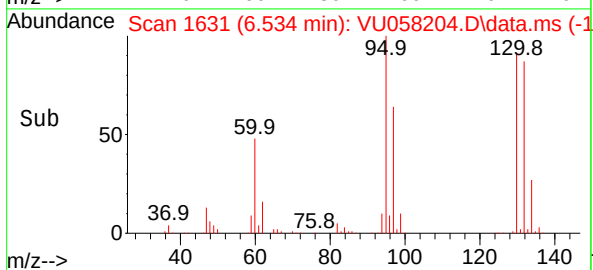
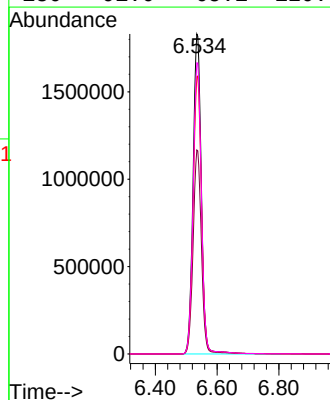
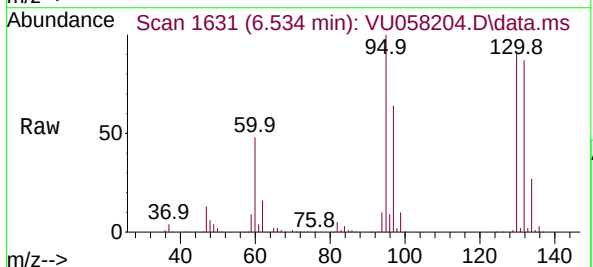
Instrument :
MSVOA_U
ClientSampleId :

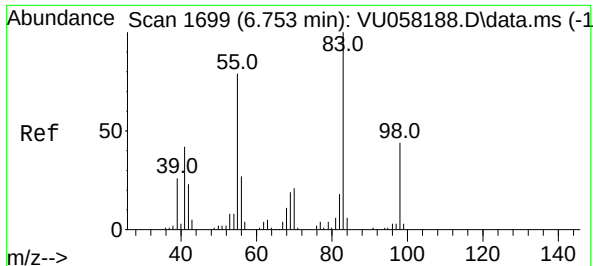
Tgt Ion:117 Resp: 7104
Ion Ratio Lower Upper
117 100
119 95.7 78.1 117.1



#34
Trichloroethene
Concen: 601.426 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VU058204.D
Acq: 22 Mar 2024 20:19

Tgt Ion: 95 Resp: 3417737
Ion Ratio Lower Upper
95 100
97 63.7 47.7 88.7
132 86.6 63.6 118.2
130 91.0 65.1 120.9

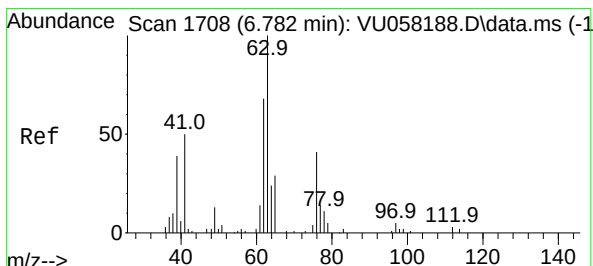
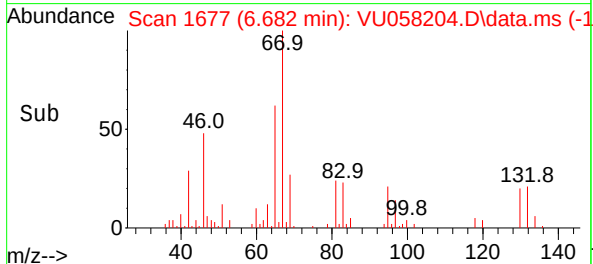
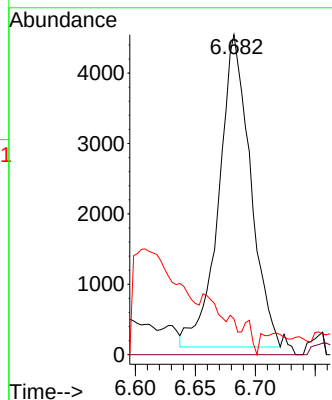
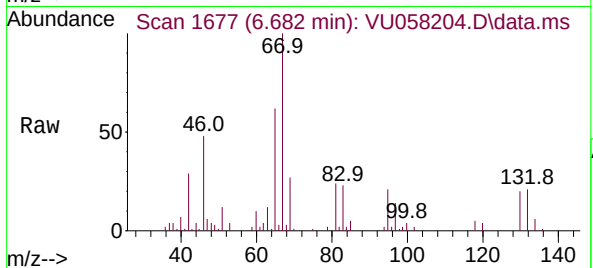




#35
Methylcyclohexane
Concen: 1.024 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.071 min
Lab File: VU058204.D
Acq: 22 Mar 2024 20:19

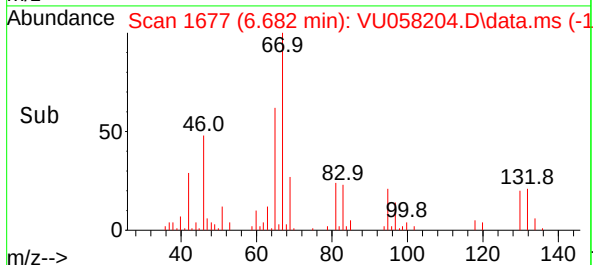
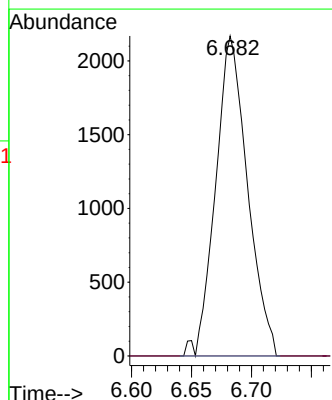
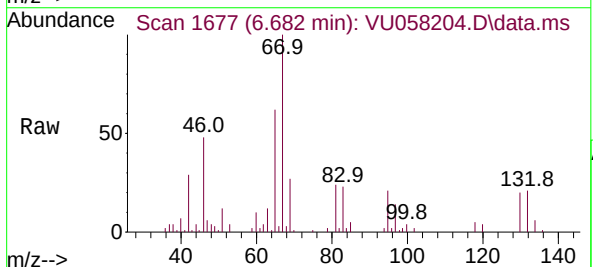
Instrument :
MSVOA_U
ClientSampleId :

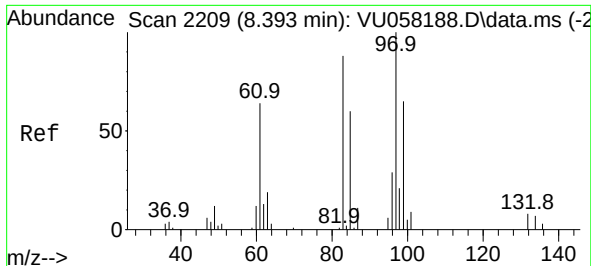
Tgt Ion: 83 Resp: 8117
Ion Ratio Lower Upper
83 100
55 2.3 62.7 94.1#
98 0.0 37.3 55.9#



#37
1,2-Dichloropropane
Concen: 0.658 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.100 min
Lab File: VU058204.D
Acq: 22 Mar 2024 20:19

Tgt Ion: 63 Resp: 4009
Ion Ratio Lower Upper
63 100
112 0.0 2.7 4.1#





#45

1,1,2-Trichloroethane

Concen: 0.257 ug/L

RT: 8.399 min Scan# 2209

Delta R.T. 0.006 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 97 Resp: 988

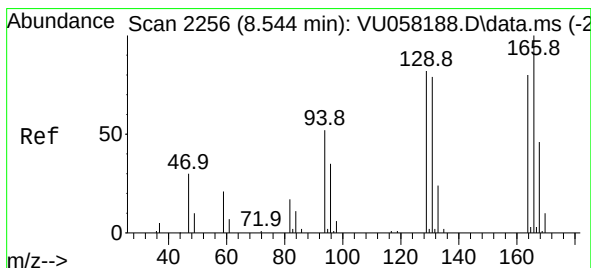
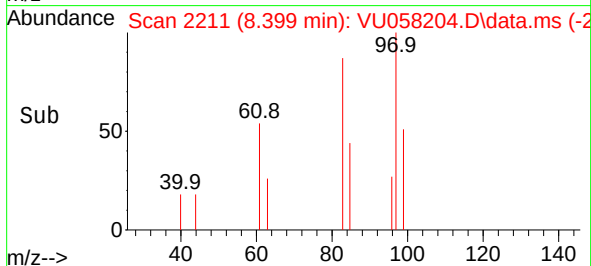
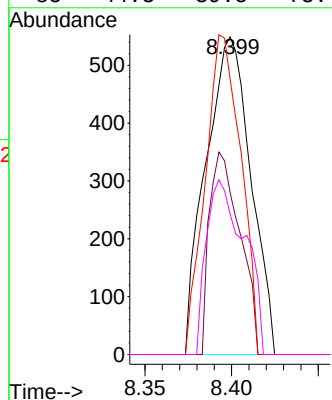
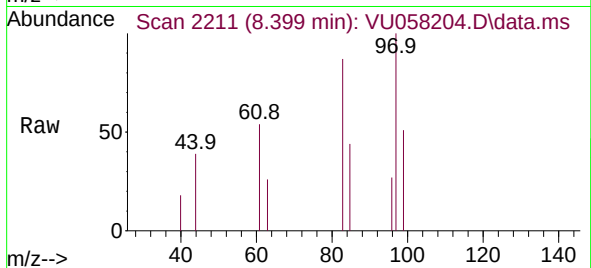
Ion Ratio Lower Upper

97 100

99 51.0 44.5 82.7

83 86.7 64.1 119.1

85 44.3 39.5 73.4



#47

Tetrachloroethene

Concen: 53.011 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Tgt Ion: 164 Resp: 201774

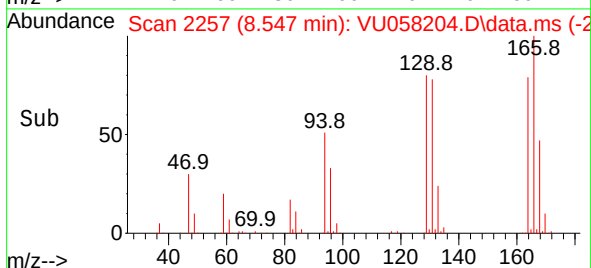
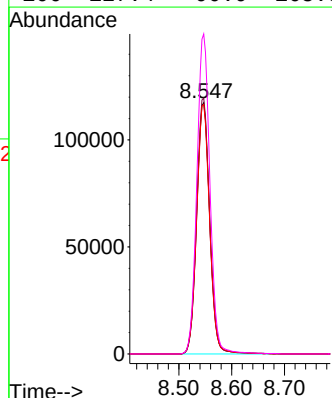
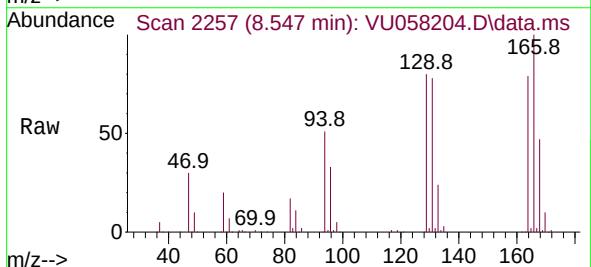
Ion Ratio Lower Upper

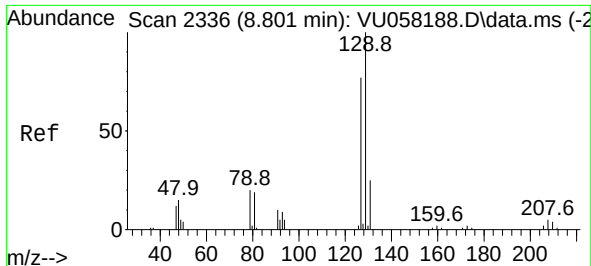
164 100

129 101.8 71.3 132.3

131 99.3 70.8 131.4

166 127.4 90.9 168.9





#49

Dibromochloromethane

Concen: 48.016 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

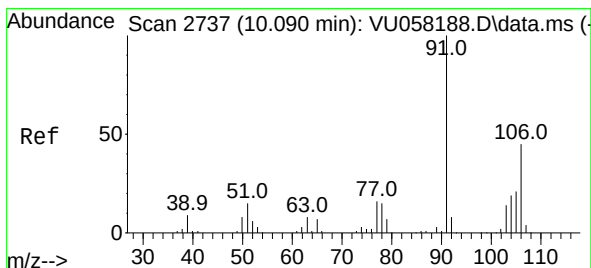
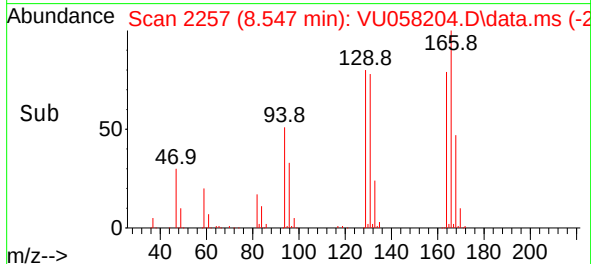
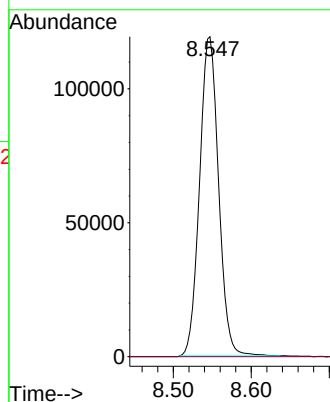
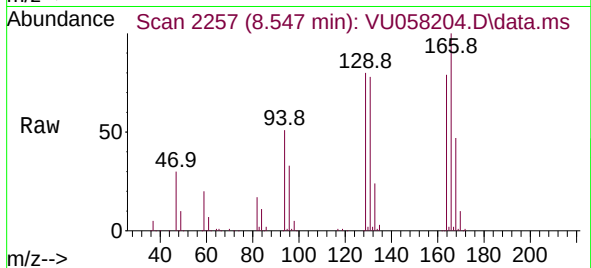
ClientSampleId :

Tgt Ion:129 Resp: 201649

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#54

o-Xylene

Concen: 0.143 ug/L

RT: 10.097 min Scan# 2739

Delta R.T. 0.006 min

Lab File: VU058204.D

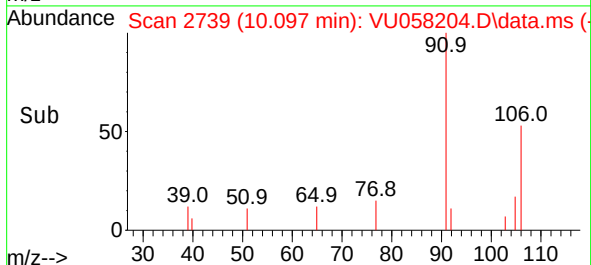
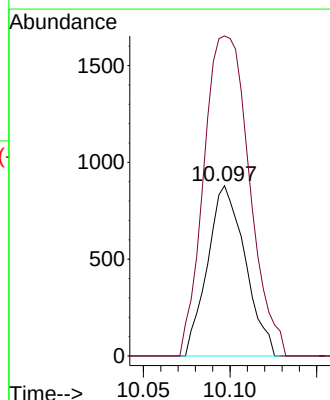
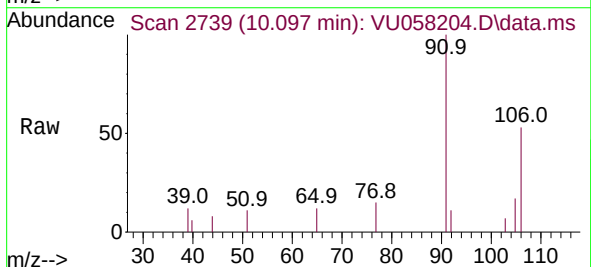
Acq: 22 Mar 2024 20:19

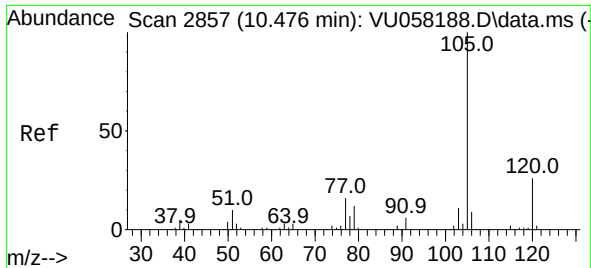
Tgt Ion:106 Resp: 1326

Ion Ratio Lower Upper

106 100

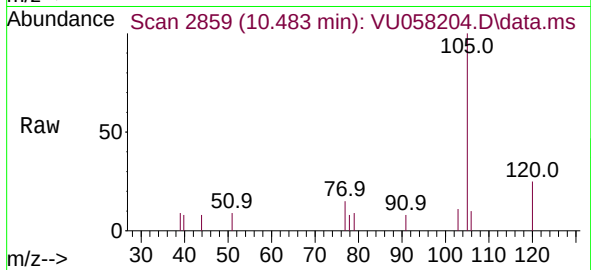
91 188.1 154.3 286.7



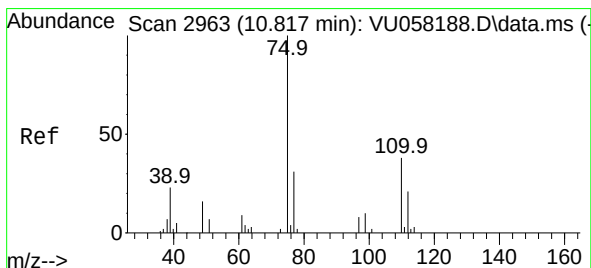
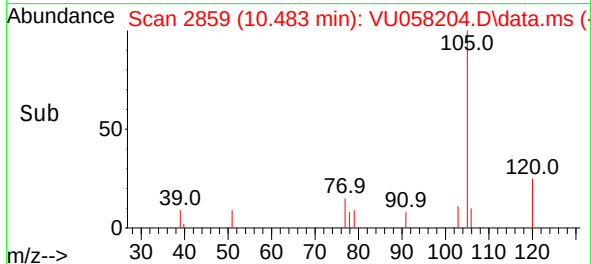
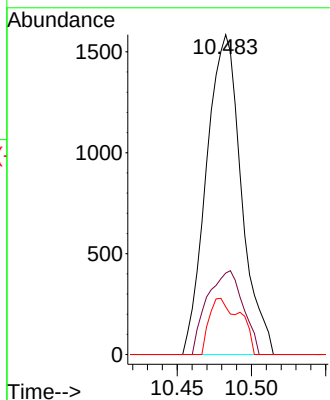


#60
Isopropylbenzene
Concen: 0.114 ug/L
RT: 10.483 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU058204.D
Acq: 22 Mar 2024 20:19

Instrument :
MSVOA_U
ClientSampleId :

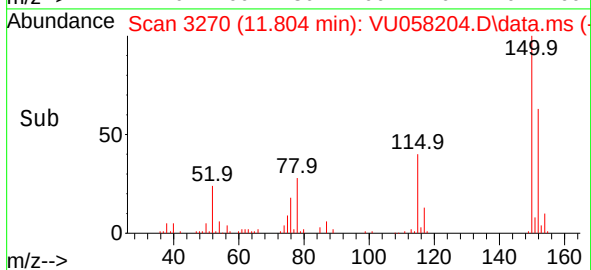
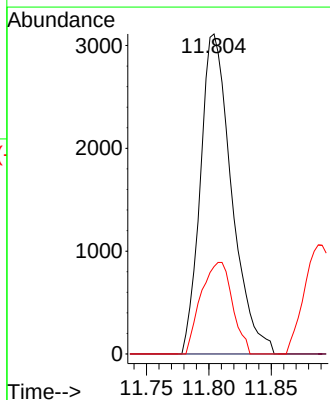
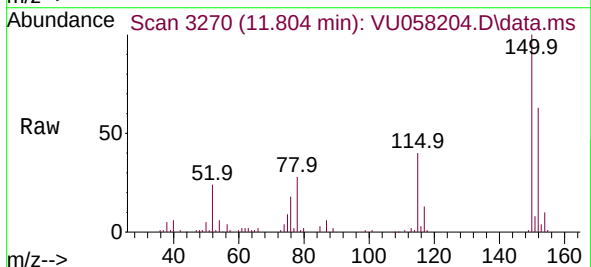


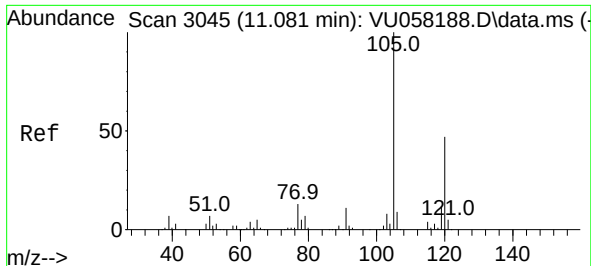
Tgt Ion:105 Resp: 2595
Ion Ratio Lower Upper
105 100
120 26.9 20.5 30.7
77 15.4 13.2 19.8



#61
1,2,3-Trichloropropane
Concen: 1.709 ug/L
RT: 11.804 min Scan# 3270
Delta R.T. 0.987 min
Lab File: VU058204.D
Acq: 22 Mar 2024 20:19

Tgt Ion: 75 Resp: 5424
Ion Ratio Lower Upper
75 100
110 0.0 28.1 42.1#
77 28.8 25.1 37.7





#62

1,3,5-Trimethylbenzene

Concen: 0.802 ug/L

RT: 11.888 min Scan# 3296

Delta R.T. 0.807 min

Lab File: VU058204.D

Acq: 22 Mar 2024 20:19

Instrument :

MSVOA_U

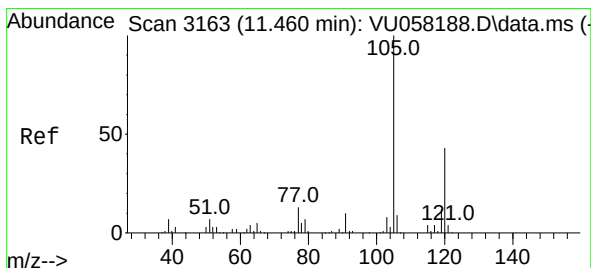
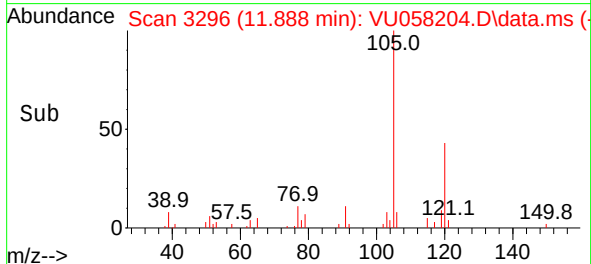
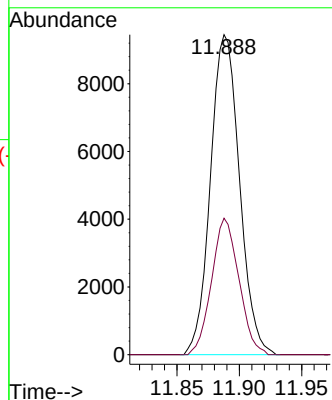
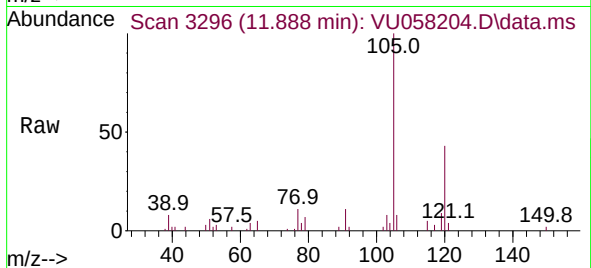
ClientSampleId :

Tgt Ion:105 Resp: 15332

Ion Ratio Lower Upper

105 100

120 40.1 36.7 55.1



#63

1,2,4-Trimethylbenzene

Concen: 0.808 ug/L

RT: 11.888 min Scan# 3296

Delta R.T. 0.428 min

Lab File: VU058204.D

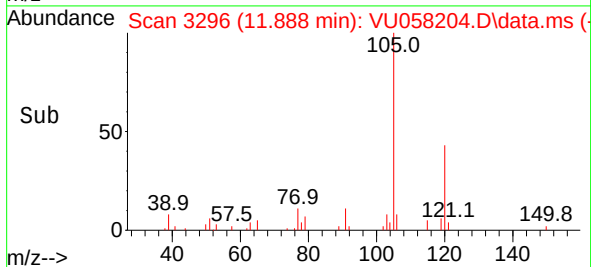
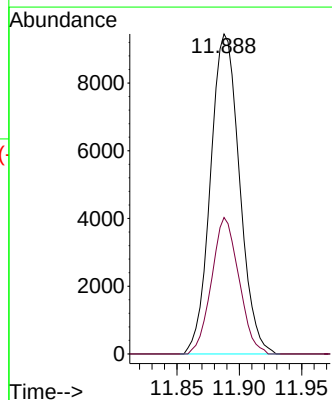
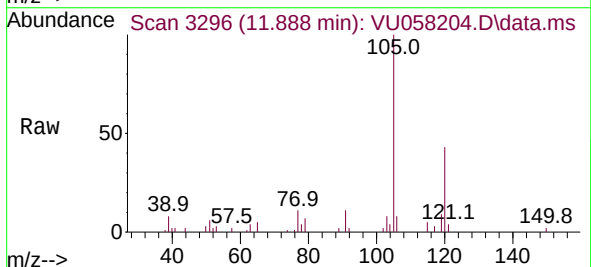
Acq: 22 Mar 2024 20:19

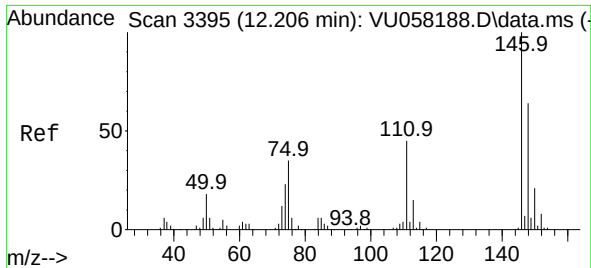
Tgt Ion:105 Resp: 15332

Ion Ratio Lower Upper

105 100

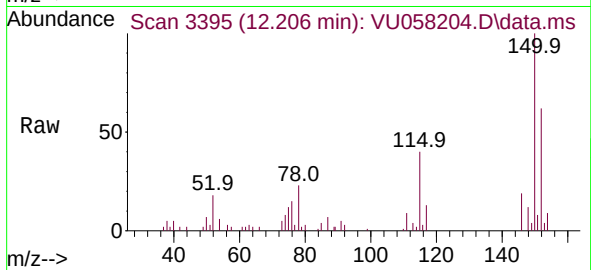
120 40.1 35.9 53.9





#67
 1,2-Dichlorobenzene
 Concen: 0.267 ug/L
 RT: 12.206 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: VU058204.D
 Acq: 22 Mar 2024 20:19

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	146	Resp:	2618
Ion	Ratio	Lower	Upper
146	100		
111	46.7	35.9	53.9
148	63.4	52.4	78.6

