

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121223\
 Data File : VU056821.D
 Acq On : 13 Dec 2023 06:38
 Operator : MD/SY
 Sample : 05684-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E06J1

Quant Time: Dec 13 07:04:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 13 01:32:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	271835	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.441	117	244101	5.000	ug/L	0.03
58) 1,4-Dichlorobenzene-d4	11.775	152	14484	5.000	ug/L	#-0.03
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	85555	3.672	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.400%
7) Chloroethane-d5	1.907	69	75618	4.337	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.800%
11) 1,1-Dichloroethene-d2	2.563	65	39269	3.939	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.800%
20) 2-Butanone-d5	4.615	46	223506	48.572	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.140%
24) Chloroform-d	5.055	84	196550	4.455	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.000%
26) 1,2-Dichloroethane-d4	5.695	65	97962	4.692	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.800%
32) Benzene-d6	5.721	84	371214	4.903	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.000%
36) 1,2-Dichloropropane-d6	6.685	67	117442	4.956	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.200%
41) Toluene-d8	7.894	98	325279	4.807	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
43) trans-1,3-Dichloroprop...	8.177	79	44889	4.884	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.600%
46) 2-Hexanone-d5	8.637	63	223825	64.574	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.140%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	103310	6.025	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	120.600%#
66) 1,2-Dichlorobenzene-d4	12.257	152	93690	32.906	ug/L	0.07
Spiked Amount	5.000	Range	80 - 120	Recovery	=	658.200%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	55840	2.008	ug/L	89
13) Acetone	2.621	43	146092	52.096	ug/L	98
14) Carbon disulfide	2.788	76	13198	0.172	ug/L	99
15) Methyl Acetate	2.792	43	30180	3.954	ug/L #	49
18) trans-1,2-Dichloroethene	3.348	96	212586	9.500	ug/L	97
22) cis-1,2-Dichloroethene	4.656	96	571524	23.478	ug/L	99
25) Chloroform	5.078	83	42227	0.936	ug/L	99
27) 1,2-Dichloroethane	5.766	62	53084	1.991	ug/L #	74
31) Carbon tetrachloride	5.518	117	8991	0.293	ug/L	95
33) Benzene	5.766	78	6118437	71.321	ug/L	100
34) Trichloroethene	6.534	95	181215	7.701	ug/L	98
37) 1,2-Dichloropropane	6.685	63	12967	0.591	ug/L #	94
42) Toluene	7.965	91	275451	3.103	ug/L	99
45) 1,1,2-Trichloroethane	8.550	97	14899	1.004	ug/L #	1
47) Tetrachloroethene	8.550	164	1553465	94.326	ug/L	98
48) 2-Hexanone	8.695	43	6623	0.892	ug/L #	87
49) Dibromochloromethane	8.550	129	1633654	95.798	ug/L #	11
52) Ethylbenzene	9.579	91	23741	0.242	ug/L	96
53) m,p-Xylene	9.695	106	24520	0.672	ug/L	97

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

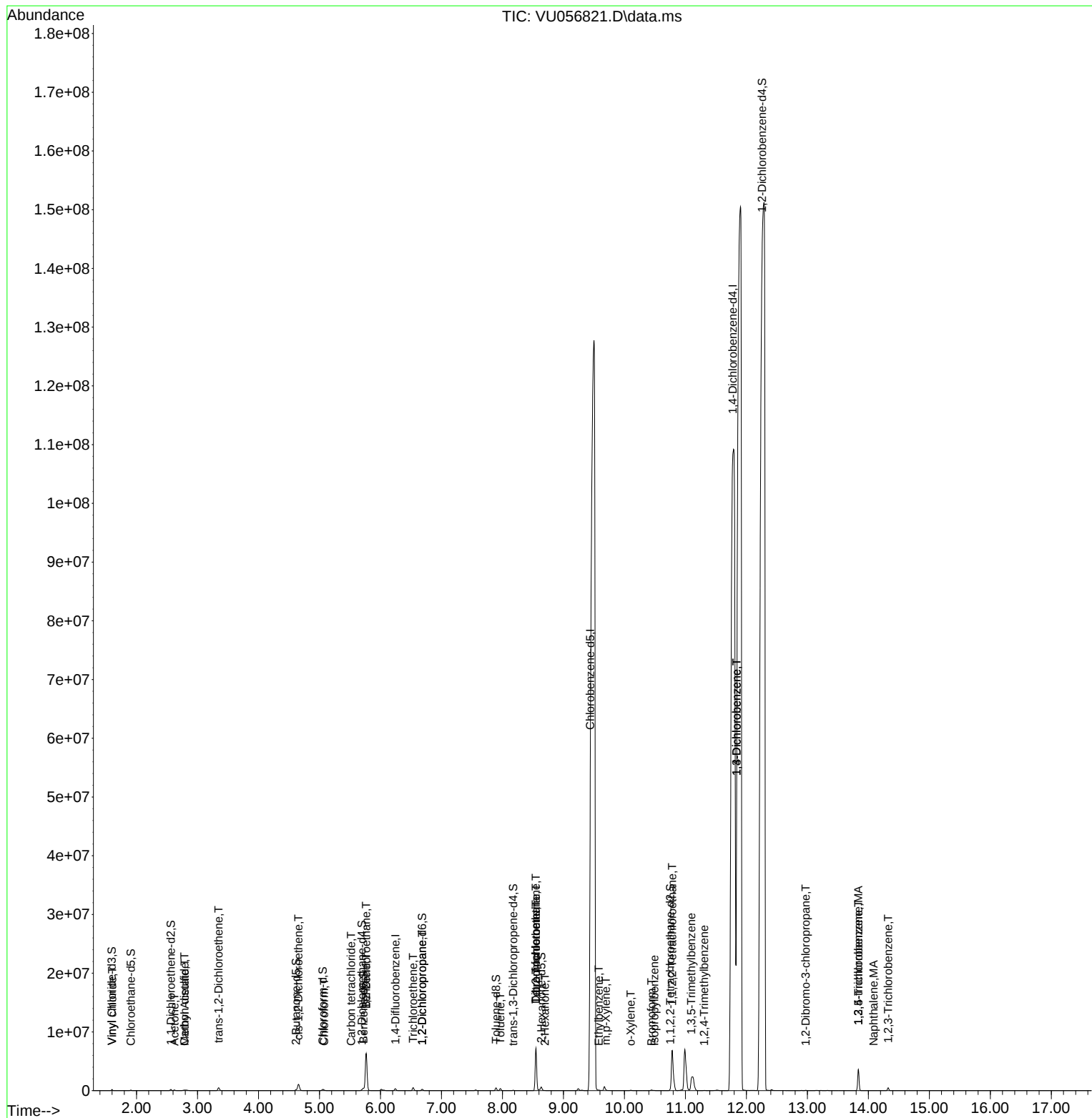
54) o-Xylene	10.103	106	21074	0.606	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.785	83	6745	0.376	ug/L #	1
59) Bromoform	10.444	173	639	0.540	ug/L #	62
60) Isopropylbenzene	10.489	105	20608	1.801	ug/L #	55
62) 1,3,5-Trimethylbenzene	11.097	105	13462	1.439	ug/L #	30
63) 1,2,4-Trimethylbenzene	11.306	105	18177	1.957	ug/L #	33
64) 1,3-Dichlorobenzene	11.839	146	756147	139.684	ug/L #	77
65) 1,4-Dichlorobenzene	11.839	146	756147	141.860	ug/L #	78
68) 1,2-Dibromo-3-chloropr...	12.971	75	9598	30.912	ug/L #	10
69) 1,3,5-Trichlorobenzene	13.836	180	1050936	256.936	ug/L	100
70) 1,2,4-trichlorobenzene	13.836	180	1050936	324.456	ug/L	98
71) Naphthalene	14.087	128	2236	0.472	ug/L #	72
72) 1,2,3-Trichlorobenzene	14.325	180	144459	52.533	ug/L	98

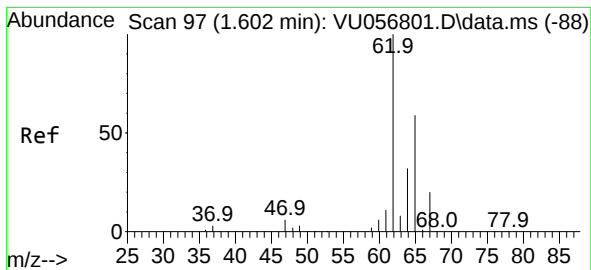
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.008 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

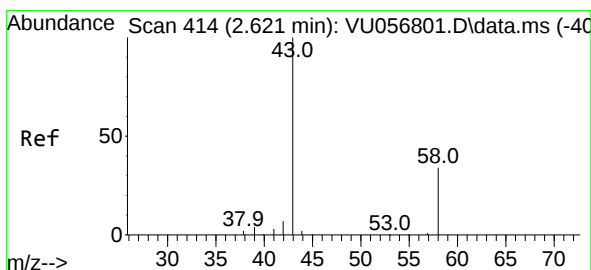
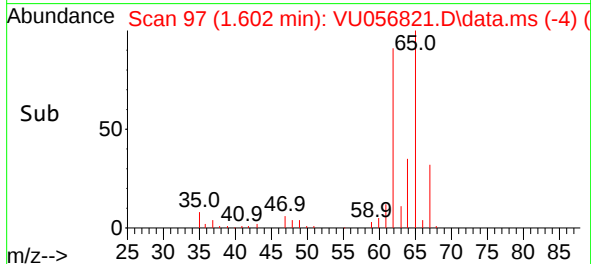
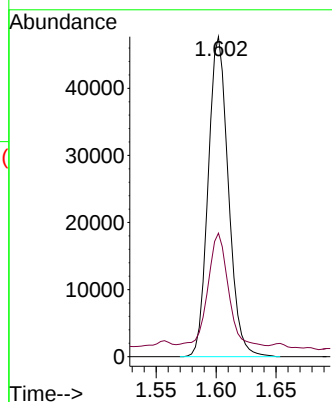
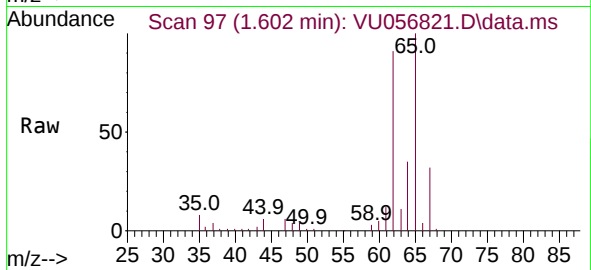
E06J1

Tgt Ion: 62 Resp: 55840

Ion Ratio Lower Upper

62 100

64 38.6 22.8 42.4



#13

Acetone

Concen: 52.096 ug/L

RT: 2.621 min Scan# 414

Delta R.T. 0.000 min

Lab File: VU056821.D

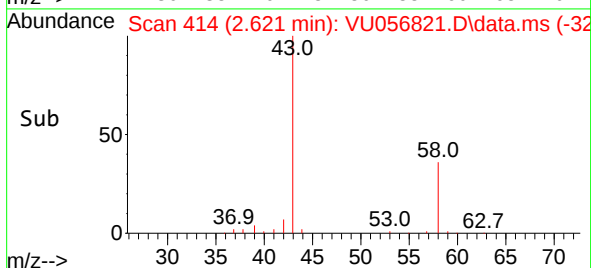
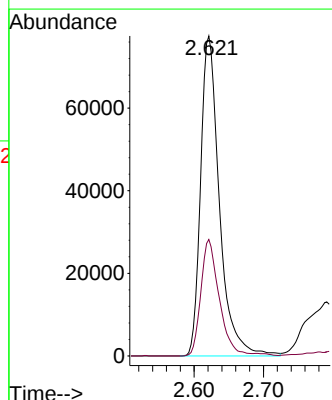
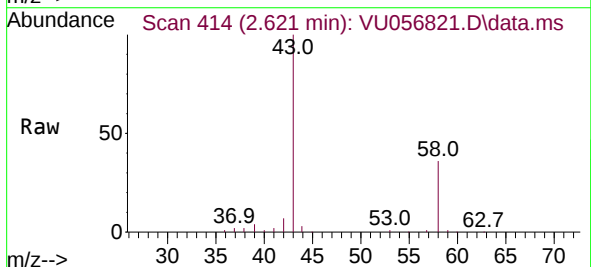
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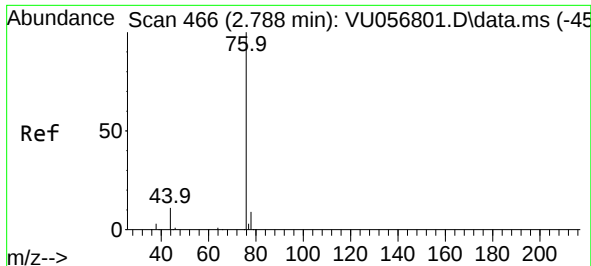
Tgt Ion: 43 Resp: 146092

Ion Ratio Lower Upper

43 100

58 35.4 0.0 72.6





#14

Carbon disulfide

Concen: 0.172 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

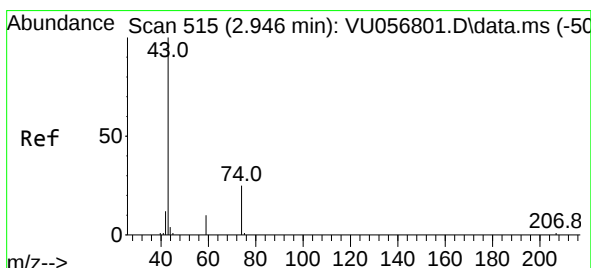
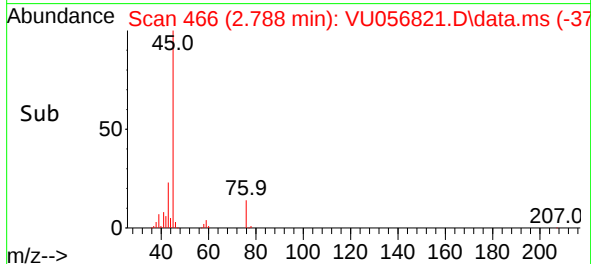
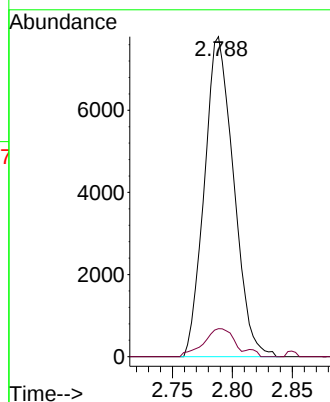
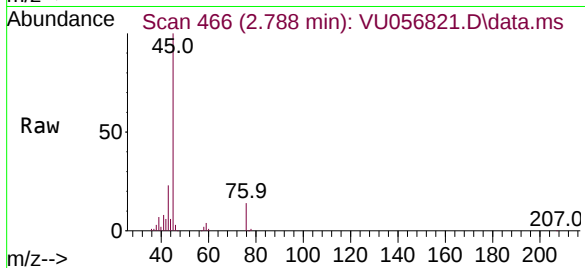
E06J1

Tgt Ion: 76 Resp: 13198

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9



#15

Methyl Acetate

Concen: 3.954 ug/L

RT: 2.792 min Scan# 467

Delta R.T. -0.154 min

Lab File: VU056821.D

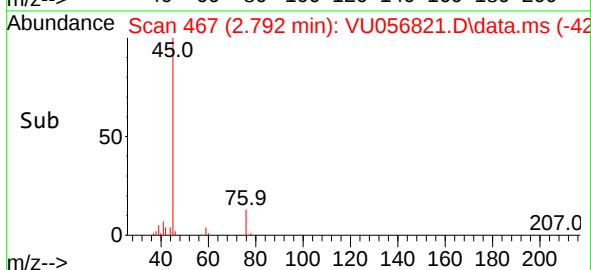
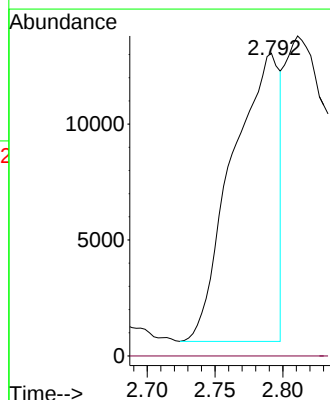
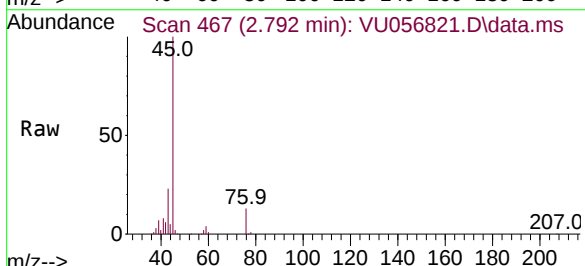
Acq: 13 Dec 2023 06:38

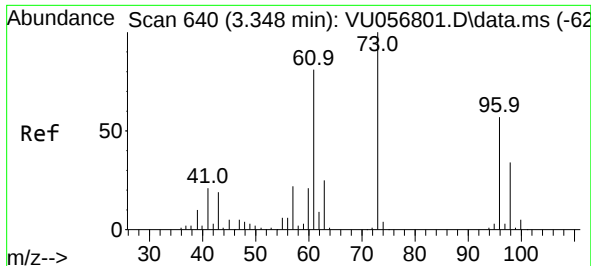
Tgt Ion: 43 Resp: 30180

Ion Ratio Lower Upper

43 100

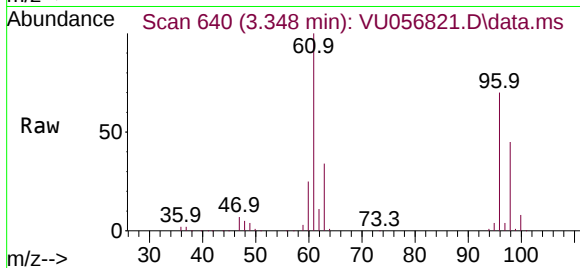
74 0.0 21.0 31.6#



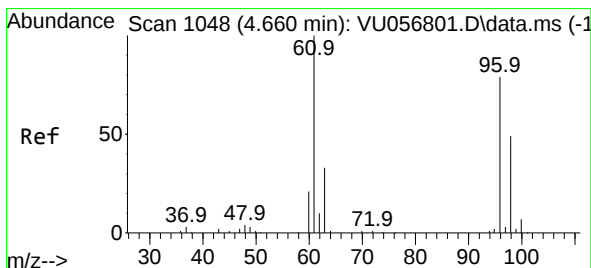
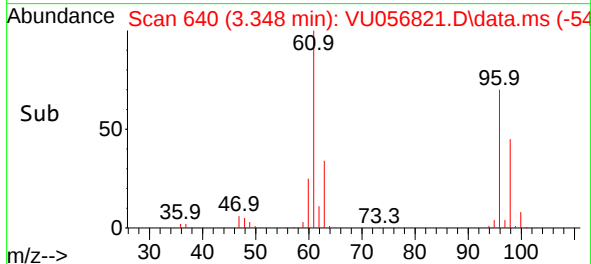
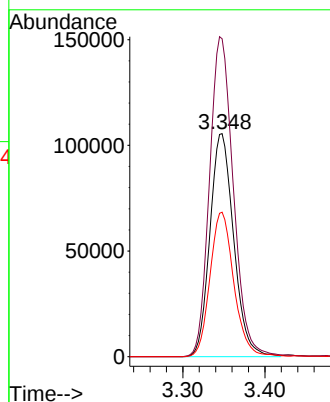


#18
trans-1,2-Dichloroethene
Concen: 9.500 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

Instrument :
MSVOA_U
ClientSampleId :
E06J1

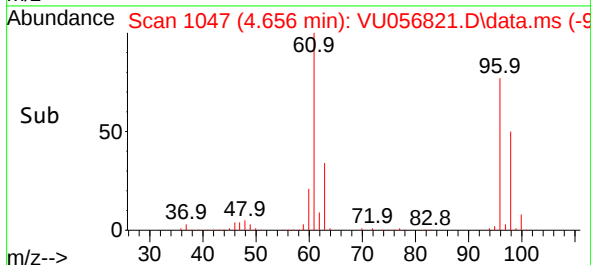
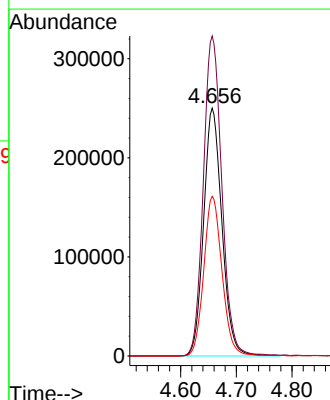
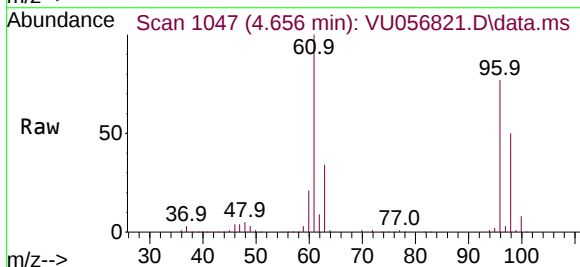


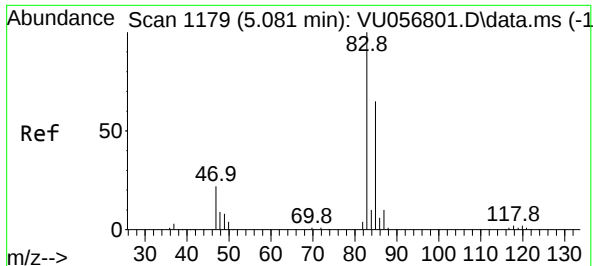
Tgt Ion: 96 Resp: 212586
Ion Ratio Lower Upper
96 100
61 142.6 101.8 189.0
98 64.8 43.0 79.8



#22
cis-1,2-Dichloroethene
Concen: 23.478 ug/L
RT: 4.656 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

Tgt Ion: 96 Resp: 571524
Ion Ratio Lower Upper
96 100
61 129.1 91.3 169.6
98 64.4 44.2 82.0





#25

Chloroform

Concen: 0.936 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. -0.003 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

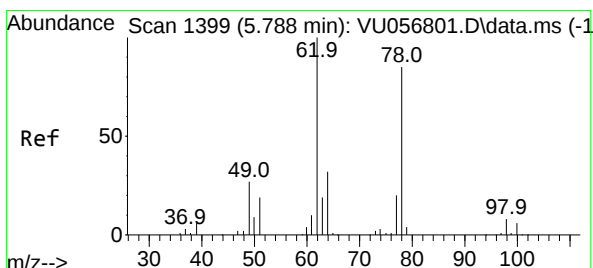
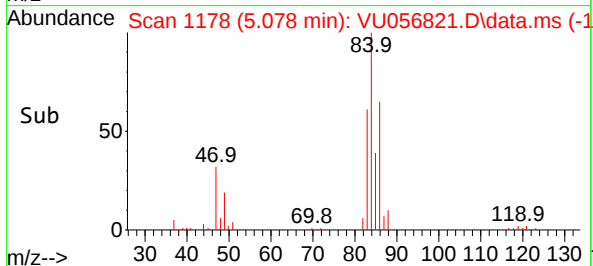
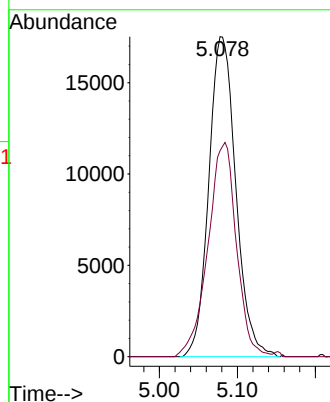
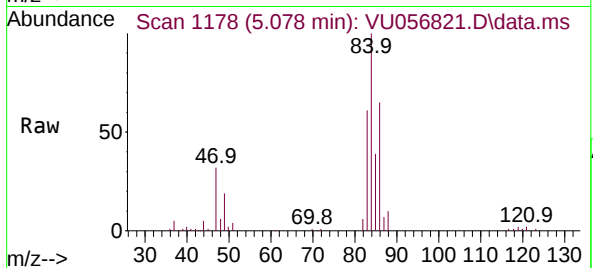
E06J1

Tgt Ion: 83 Resp: 42227

Ion Ratio Lower Upper

83 100

85 64.4 45.8 85.0



#27

1,2-Dichloroethane

Concen: 1.991 ug/L

RT: 5.766 min Scan# 1392

Delta R.T. -0.022 min

Lab File: VU056821.D

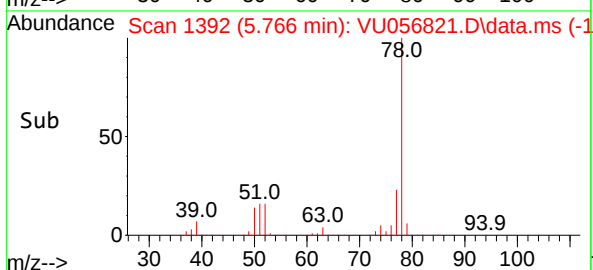
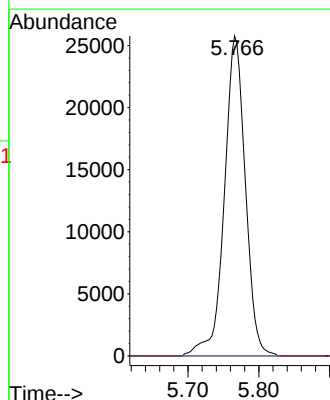
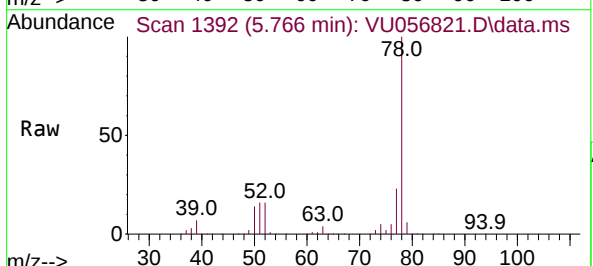
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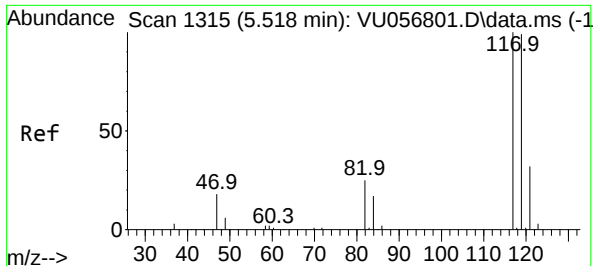
Tgt Ion: 62 Resp: 53084

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#

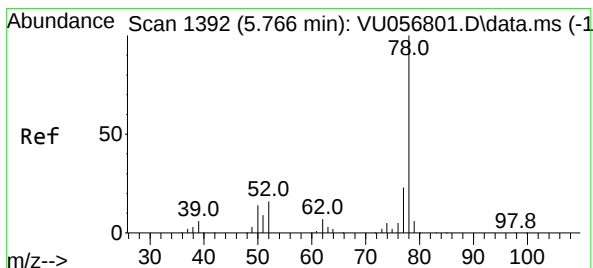
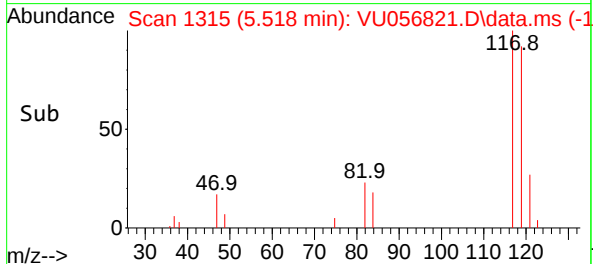
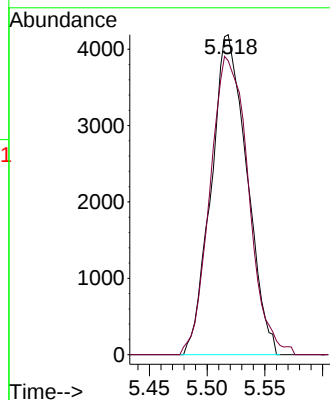
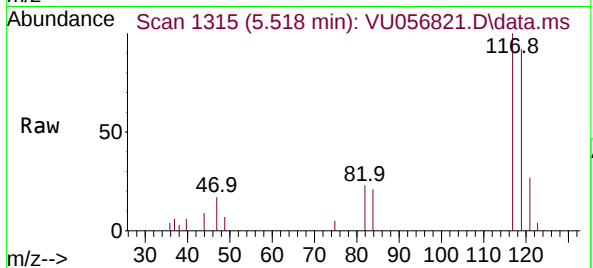




#31
Carbon tetrachloride
Concen: 0.293 ug/L
RT: 5.518 min Scan# 1169
Delta R.T. 0.000 min
Lab File: VU056821.D
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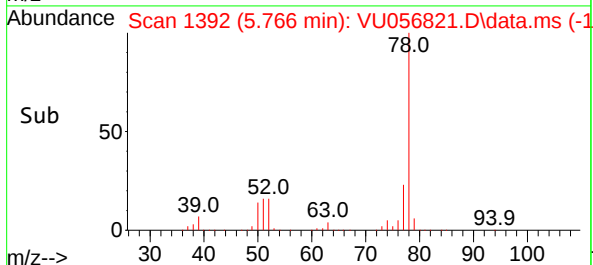
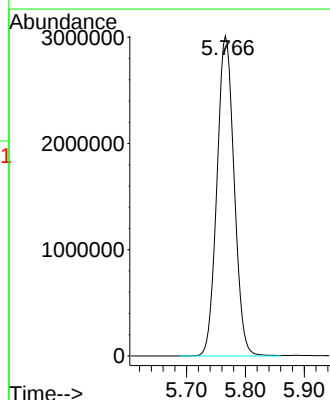
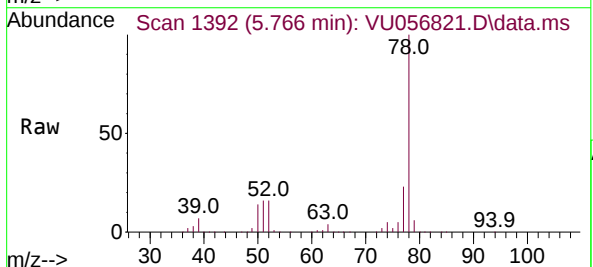
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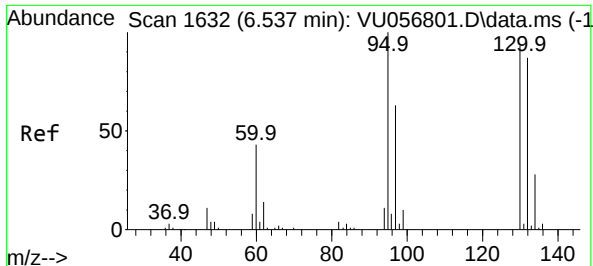
Tgt Ion:117 Resp: 8991
Ion Ratio Lower Upper
117 100
119 100.3 76.2 114.4



#33
Benzene
Concen: 71.321 ug/L
RT: 5.766 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

Tgt Ion: 78 Resp: 6118437

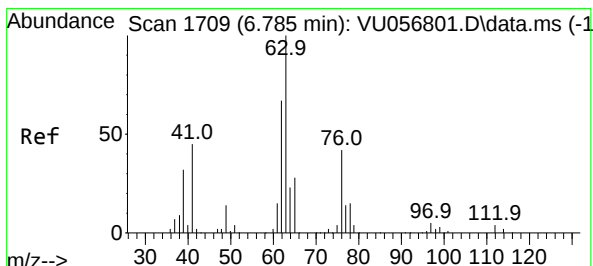
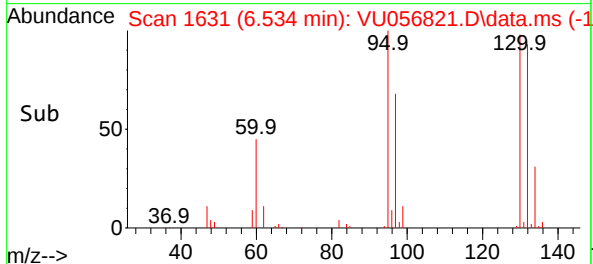
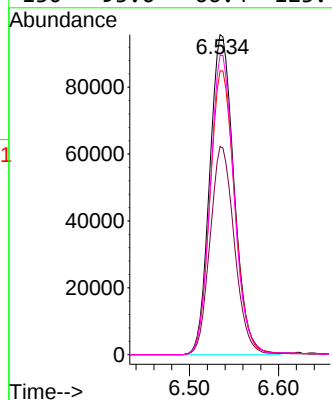
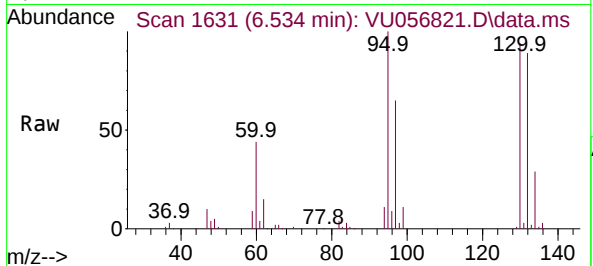




#34
Trichloroethene
Concen: 7.701 ug/L
RT: 6.534 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

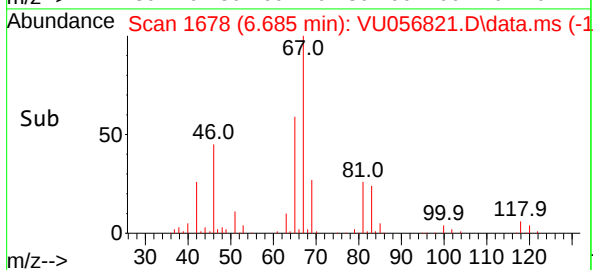
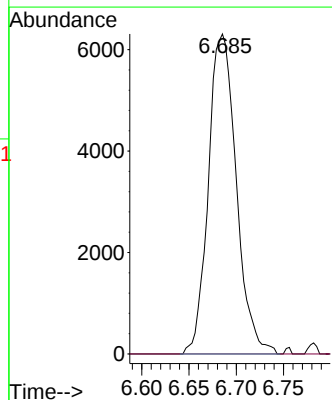
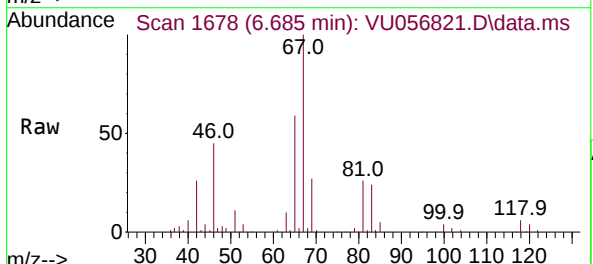
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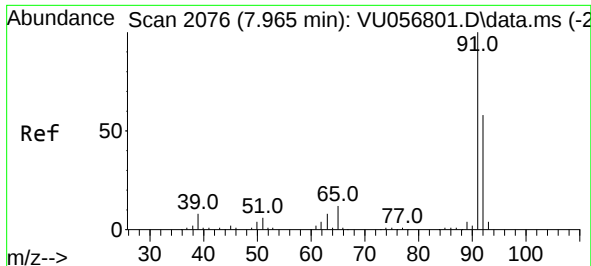
Tgt Ion: 95 Resp: 181215
Ion Ratio Lower Upper
95 100
97 65.1 46.1 85.5
132 88.7 63.6 118.0
130 93.6 66.4 123.4



#37
1,2-Dichloropropane
Concen: 0.591 ug/L
RT: 6.685 min Scan# 1678
Delta R.T. -0.100 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

Tgt Ion: 63 Resp: 12967
Ion Ratio Lower Upper
63 100
112 2.0 3.3 4.9#





#42

Toluene

Concen: 3.103 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

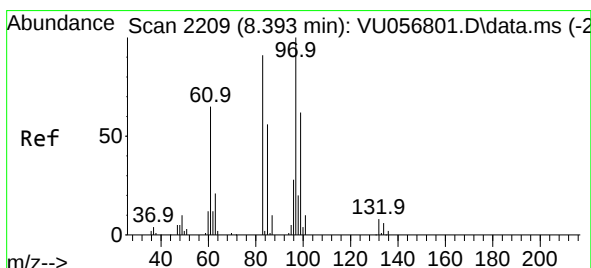
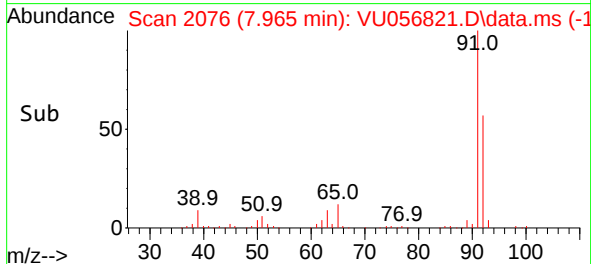
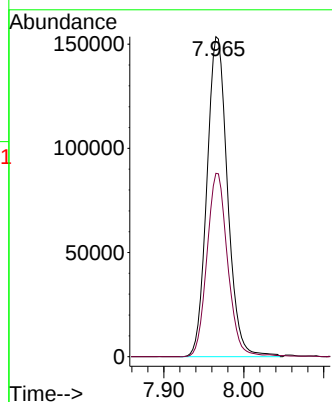
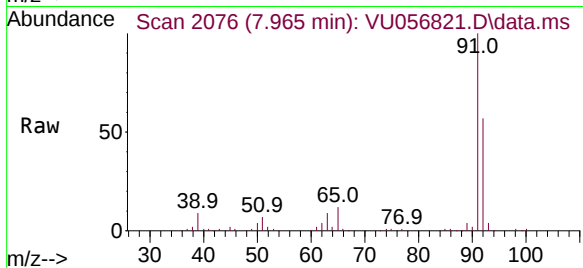
E06J1

Tgt Ion: 91 Resp: 275451

Ion Ratio Lower Upper

91 100

92 57.3 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 1.004 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.158 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Tgt Ion: 97 Resp: 14899

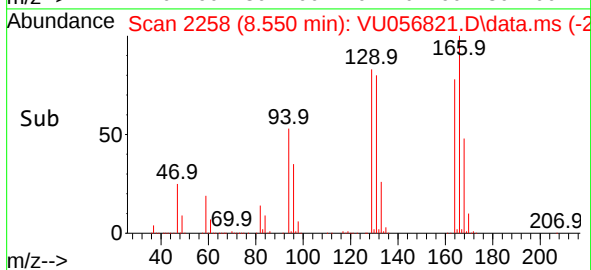
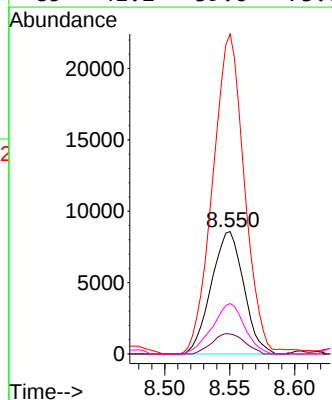
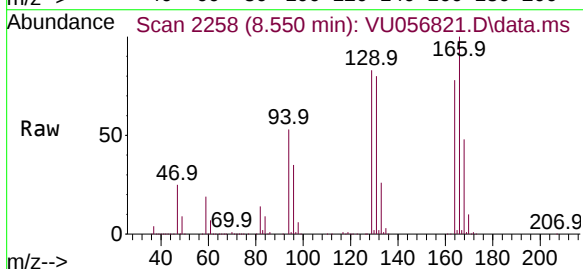
Ion Ratio Lower Upper

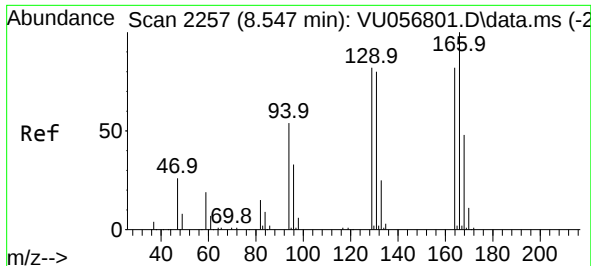
97 100

99 16.3 41.9 77.9#

83 261.3 59.1 109.7#

85 41.2 39.6 73.6

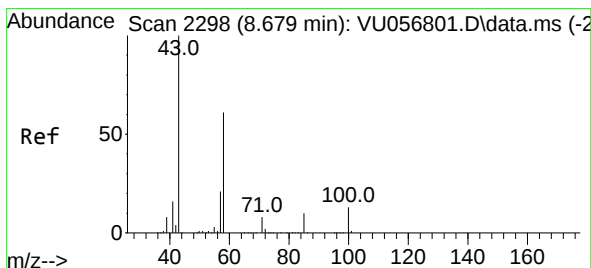
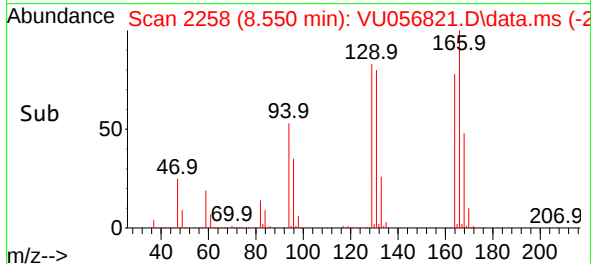
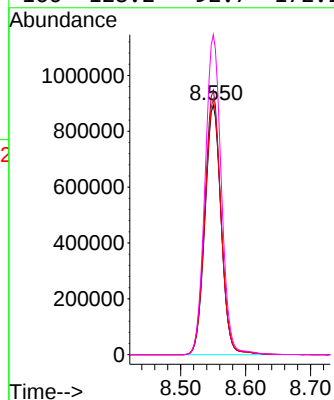
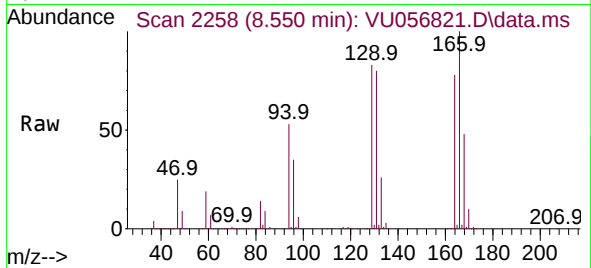




#47
Tetrachloroethene
Concen: 94.326 ug/L
RT: 8.550 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

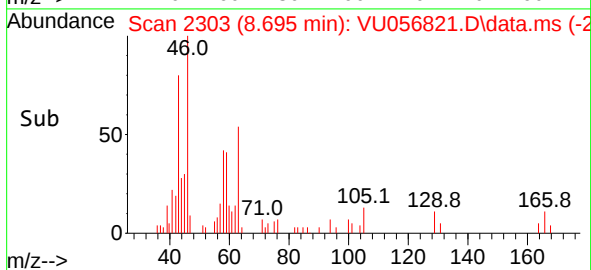
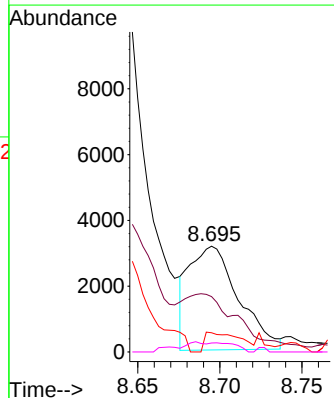
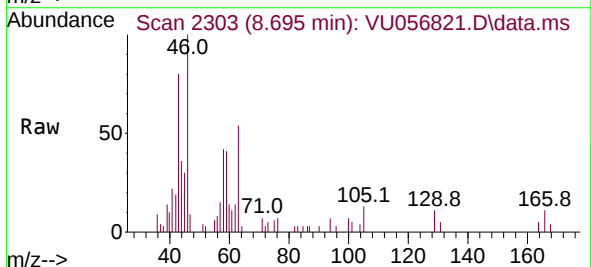
Instrument :
MSVOA_U
ClientSampleId :
E06J1

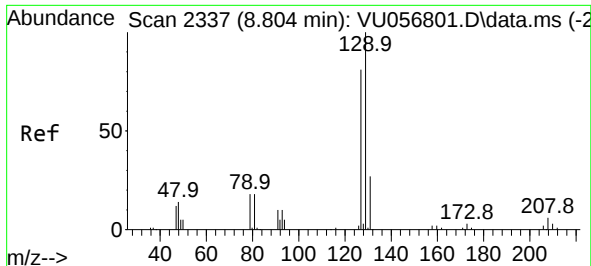
Tgt Ion:164 Resp: 1553465
Ion Ratio Lower Upper
164 100
129 105.9 73.4 136.4
131 102.3 71.5 132.9
166 128.2 92.7 172.1



#48
2-Hexanone
Concen: 0.892 ug/L
RT: 8.695 min Scan# 2303
Delta R.T. 0.016 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

Tgt Ion: 43 Resp: 6623
Ion Ratio Lower Upper
43 100
58 66.7 47.5 71.3
57 13.4 17.0 25.4#
100 2.1 9.8 14.8#





#49

Dibromochloromethane

Concen: 95.798 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

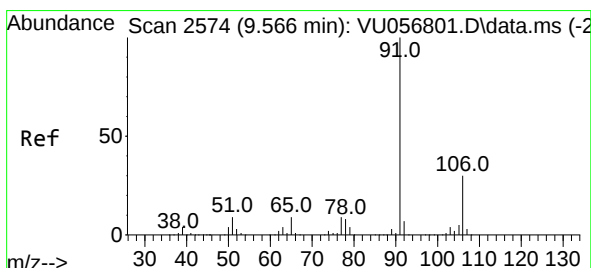
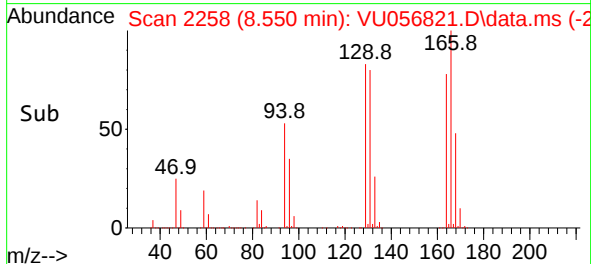
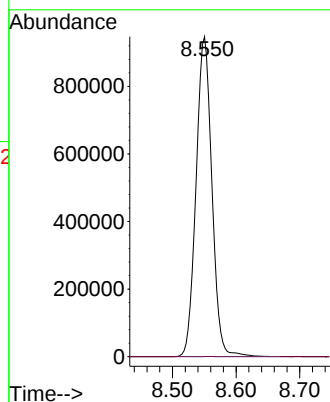
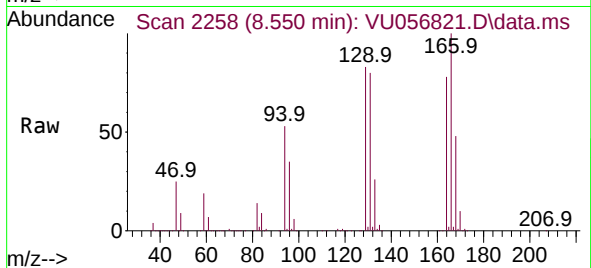
E06J1

Tgt Ion:129 Resp: 1633654

Ion Ratio Lower Upper

129 100

127 0.0 53.9 100.1#



#52

Ethylbenzene

Concen: 0.242 ug/L

RT: 9.579 min Scan# 2578

Delta R.T. 0.013 min

Lab File: VU056821.D

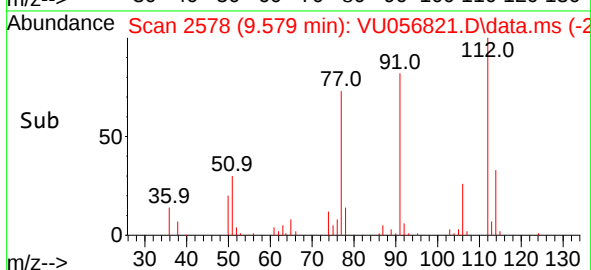
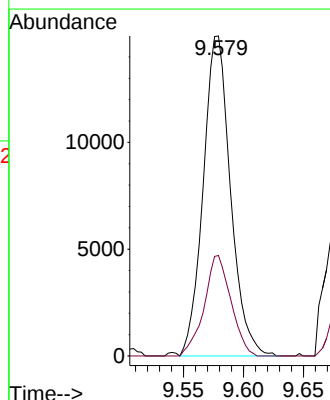
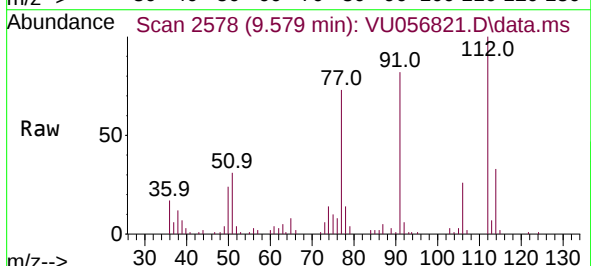
Acq: 13 Dec 2023 06:38

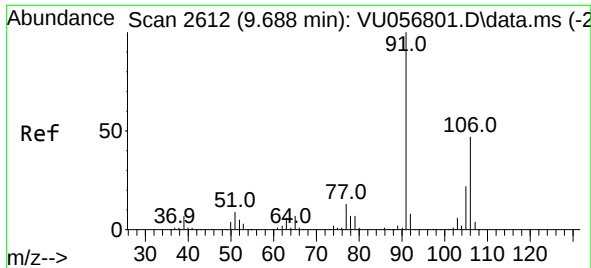
Tgt Ion: 91 Resp: 23741

Ion Ratio Lower Upper

91 100

106 31.4 20.6 38.4

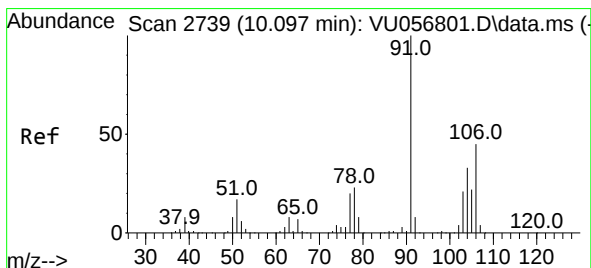
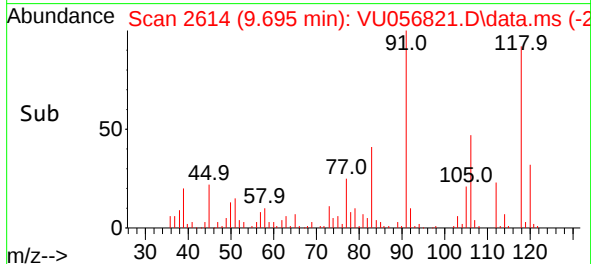
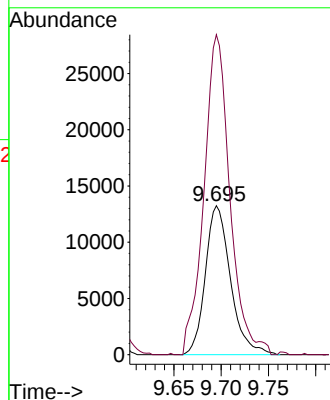
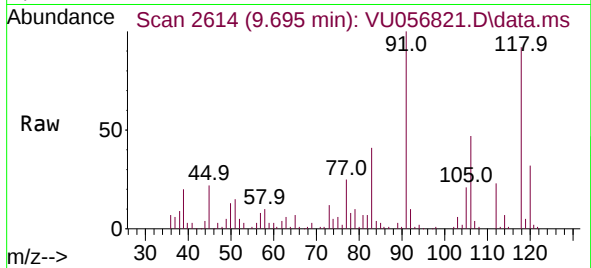




#53
m,p-Xylene
Concen: 0.672 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.006 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

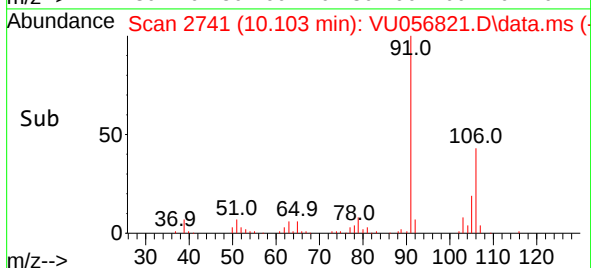
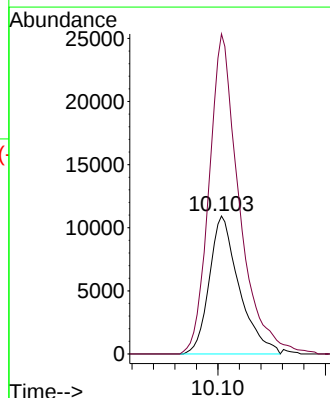
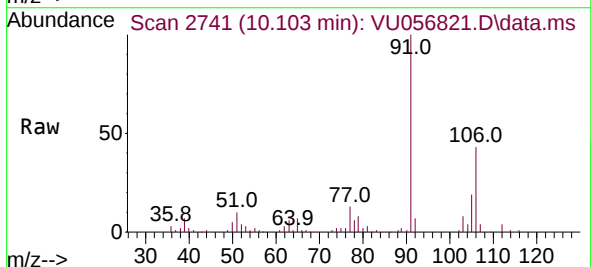
Instrument :
MSVOA_U
ClientSampleId :
E06J1

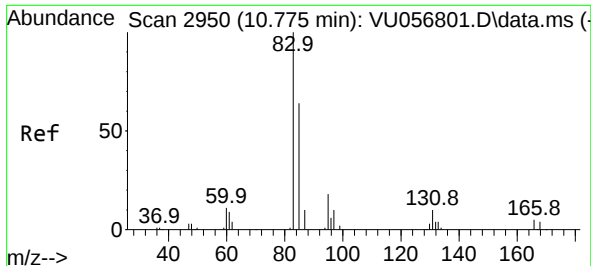
Tgt Ion:106 Resp: 24520
Ion Ratio Lower Upper
106 100
91 214.9 154.0 286.0



#54
o-Xylene
Concen: 0.606 ug/L
RT: 10.103 min Scan# 2741
Delta R.T. 0.006 min
Lab File: VU056821.D
Acq: 13 Dec 2023 06:38

Tgt Ion:106 Resp: 21074
Ion Ratio Lower Upper
106 100
91 231.9 160.2 297.6





#57

1,1,2,2-Tetrachloroethane

Concen: 0.376 ug/L

RT: 10.785 min Scan# 2950

Delta R.T. 0.010 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

E06J1

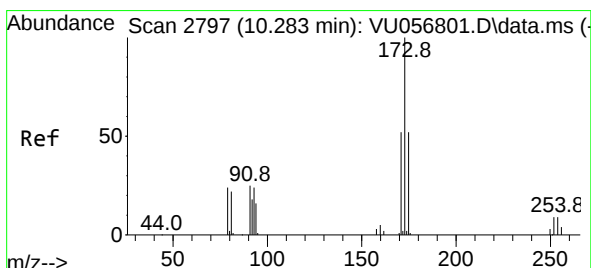
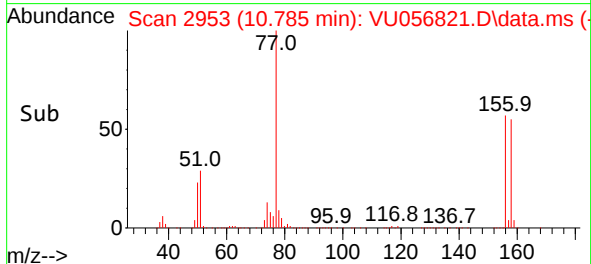
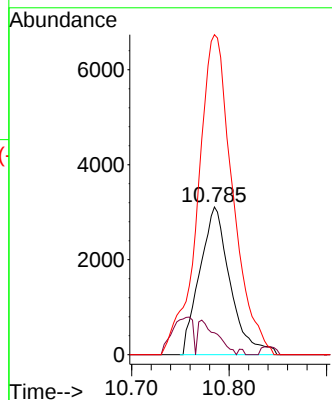
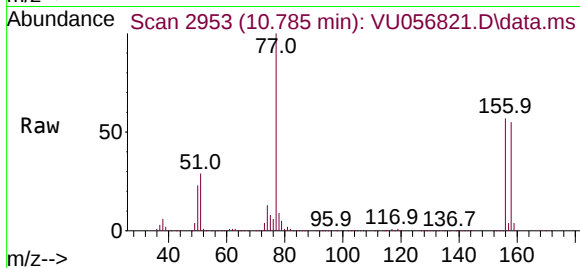
Tgt Ion: 83 Resp: 6745

Ion Ratio Lower Upper

83 100

85 14.9 45.4 84.4#

131 216.7 6.6 9.8#



#59

Bromoform

Concen: 0.540 ug/L

RT: 10.444 min Scan# 2847

Delta R.T. 0.161 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

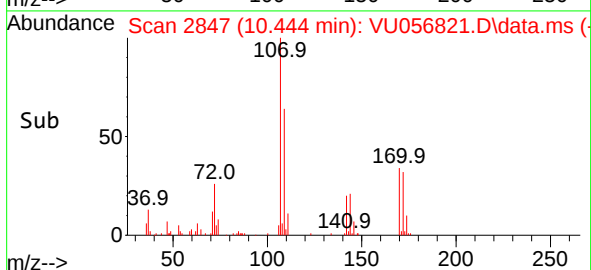
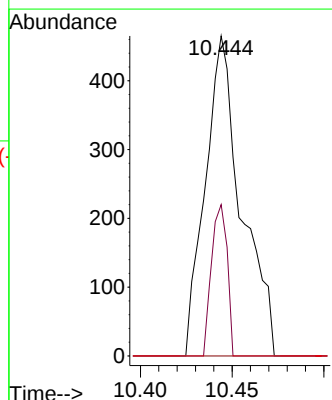
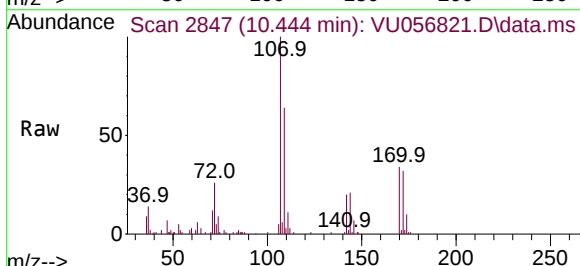
Tgt Ion:173 Resp: 639

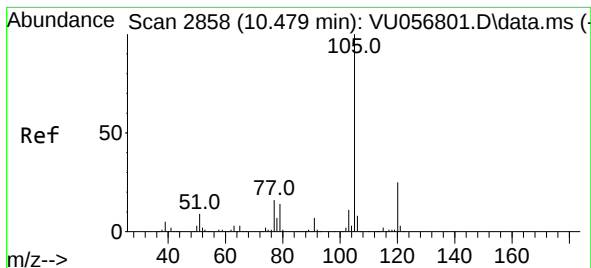
Ion Ratio Lower Upper

173 100

175 20.5 38.2 57.2#

254 0.0 7.0 10.4#





#60

Isopropylbenzene

Concen: 1.801 ug/L

RT: 10.489 min Scan# 21

Delta R.T. 0.010 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

E06J1

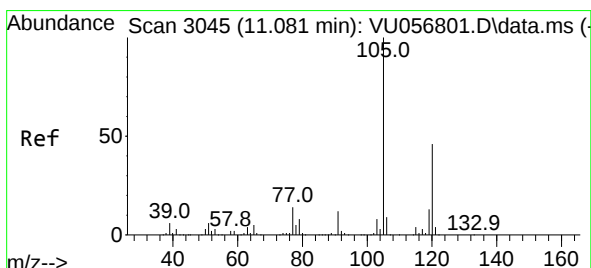
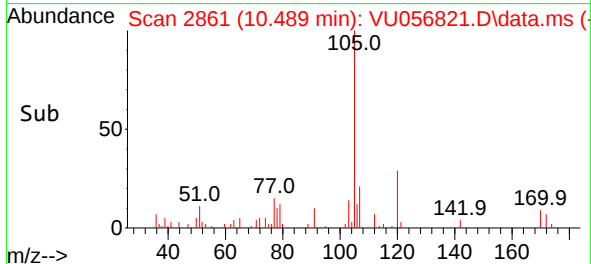
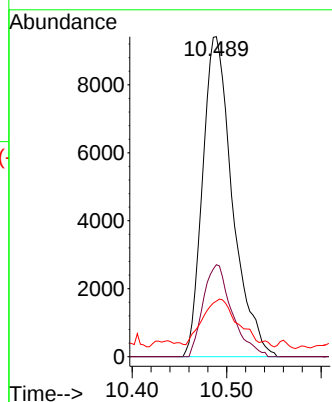
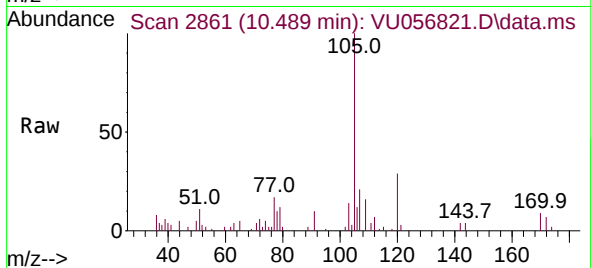
Tgt Ion:105 Resp: 20608

Ion Ratio Lower Upper

105 100

120 0.0 20.1 30.1#

77 0.0 13.2 19.8#



#62

1,3,5-Trimethylbenzene

Concen: 1.439 ug/L

RT: 11.097 min Scan# 3050

Delta R.T. 0.016 min

Lab File: VU056821.D

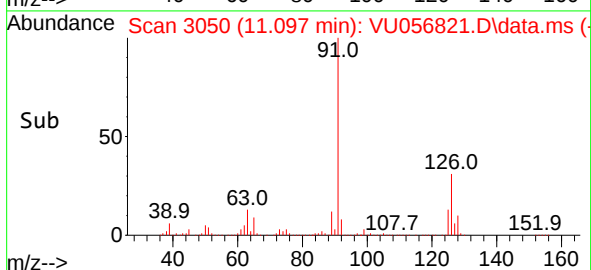
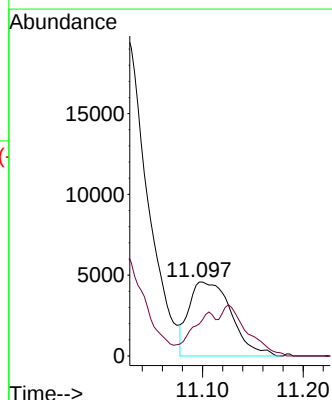
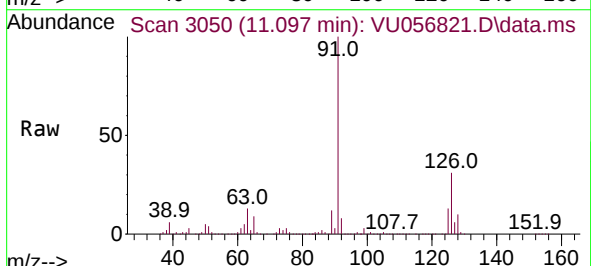
Acq: 13 Dec 2023 06:38

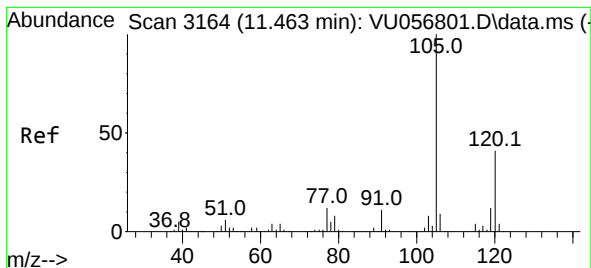
Tgt Ion:105 Resp: 13462

Ion Ratio Lower Upper

105 100

120 0.0 36.8 55.2#





#63

1,2,4-Trimethylbenzene

Concen: 1.957 ug/L

RT: 11.306 min Scan# 3164

Delta R.T. -0.158 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

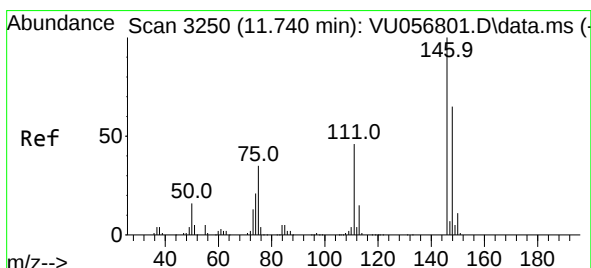
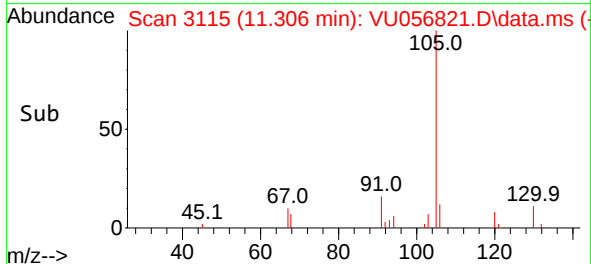
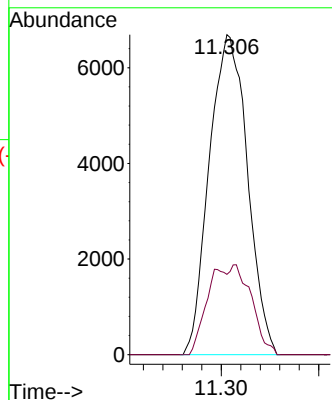
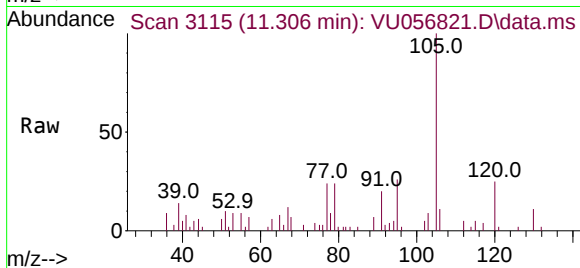
E06J1

Tgt Ion:105 Resp: 18177

Ion Ratio Lower Upper

105 100

120 0.0 34.2 51.4#



#64

1,3-Dichlorobenzene

Concen: 139.684 ug/L

RT: 11.839 min Scan# 3281

Delta R.T. 0.100 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

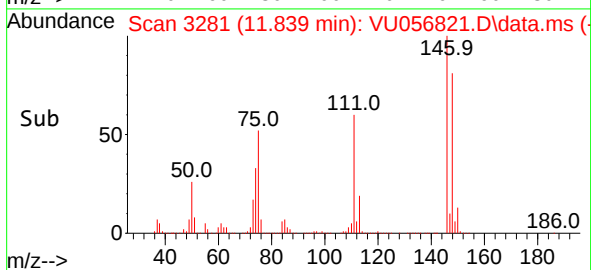
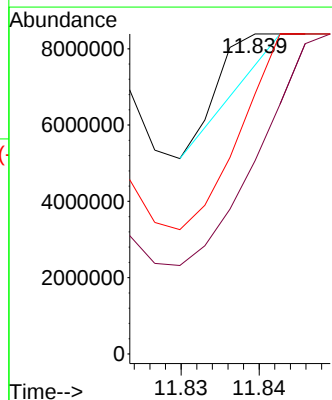
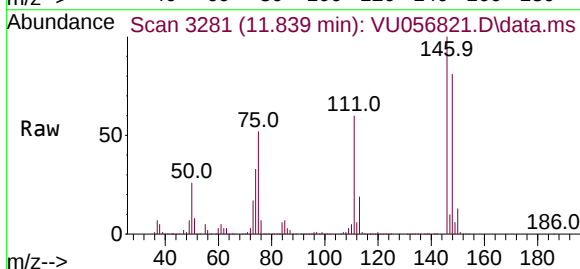
Tgt Ion:146 Resp: 756147

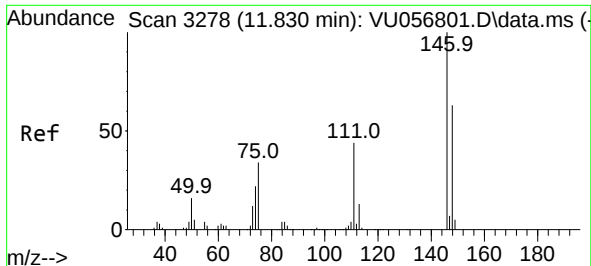
Ion Ratio Lower Upper

146 100

111 60.4 31.7 58.9#

148 81.3 44.3 82.3

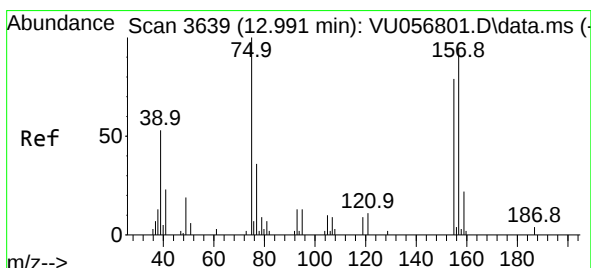
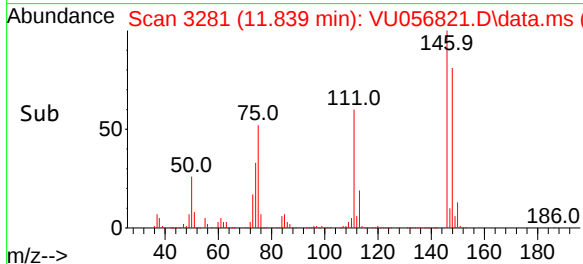
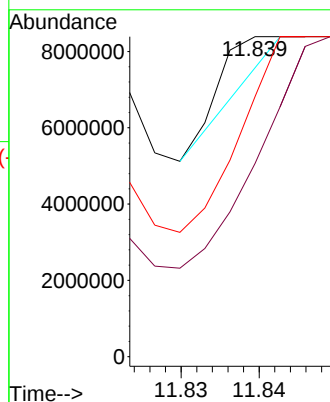
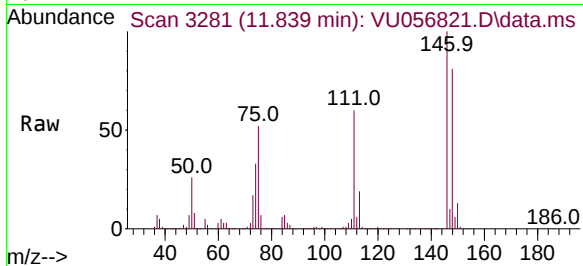




#65
 1,4-Dichlorobenzene
 Concen: 141.860 ug/L
 RT: 11.839 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VU056821.D
 Acq: 13 Dec 2023 06:38

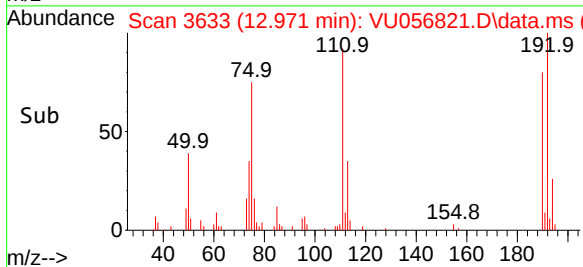
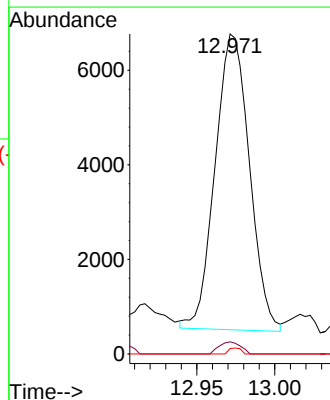
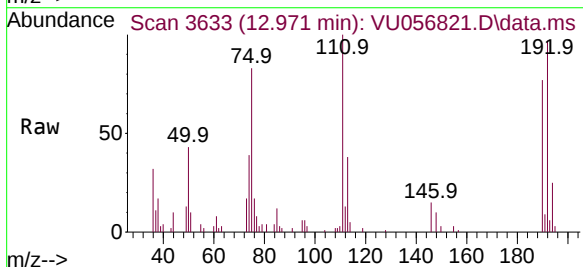
Instrument :
 MSVOA_U
 ClientSampleId :
 E06J1

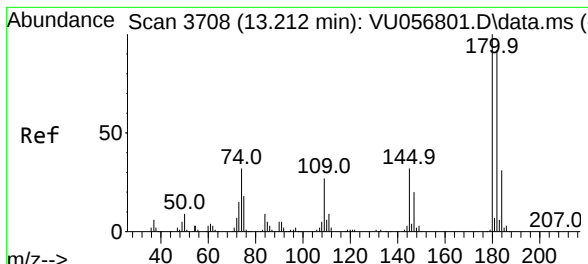
Tgt Ion:146 Resp: 756147
 Ion Ratio Lower Upper
 146 100
 111 60.4 31.2 58.0#
 148 81.3 45.6 84.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 30.912 ug/L
 RT: 12.971 min Scan# 3633
 Delta R.T. -0.019 min
 Lab File: VU056821.D
 Acq: 13 Dec 2023 06:38

Tgt Ion: 75 Resp: 9598
 Ion Ratio Lower Upper
 75 100
 155 3.8 55.4 83.2#
 157 1.7 77.3 115.9#

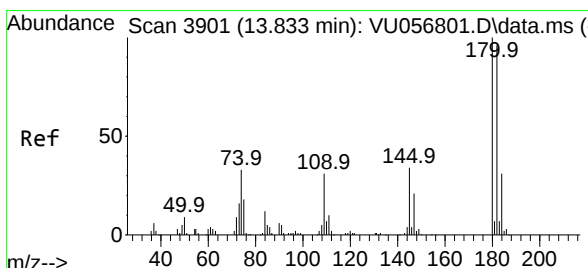
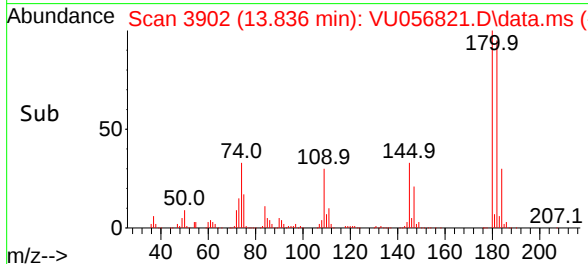
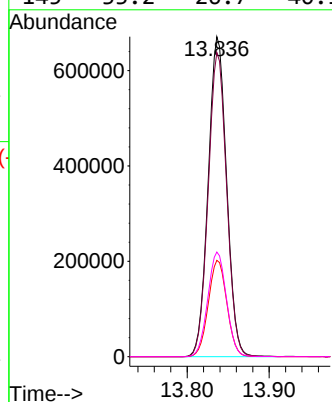
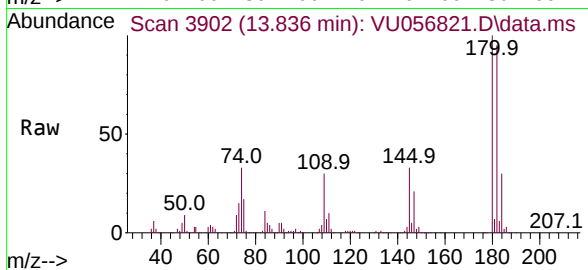




#69
 1,3,5-Trichlorobenzene
 Concen: 256.936 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. 0.624 min
 Lab File: VU056821.D
 Acq: 13 Dec 2023 06:38

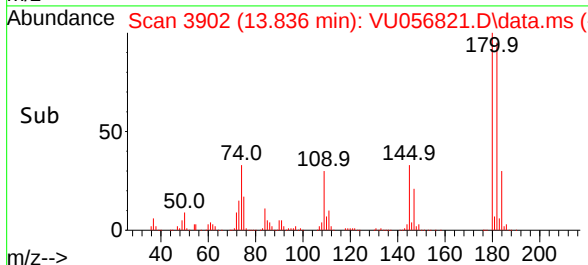
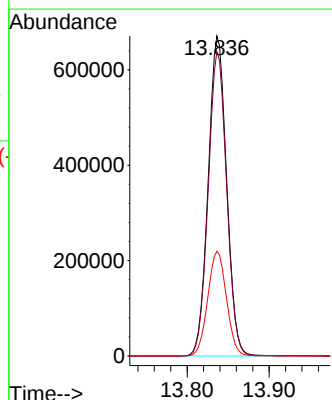
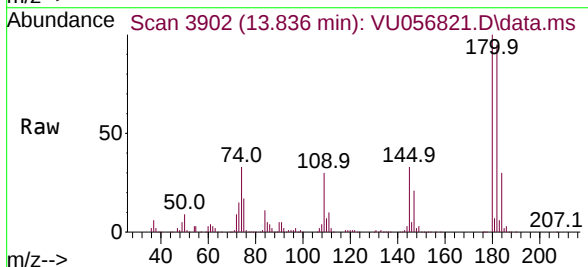
Instrument :
 MSVOA_U
 ClientSampleId :
 E06J1

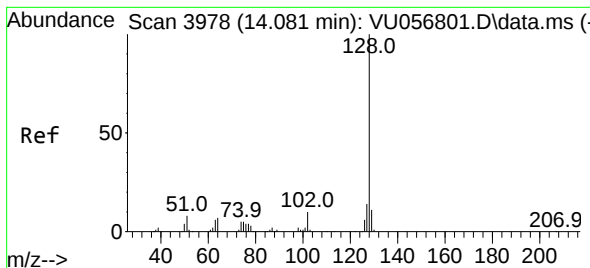
Tgt Ion:180 Resp: 1050936
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.2 114.4
 184 30.4 24.6 37.0
 145 33.2 26.7 40.1



#70
 1,2,4-trichlorobenzene
 Concen: 324.456 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. 0.003 min
 Lab File: VU056821.D
 Acq: 13 Dec 2023 06:38

Tgt Ion:180 Resp: 1050936
 Ion Ratio Lower Upper
 180 100
 182 95.0 74.3 111.5
 145 33.2 26.7 40.1





#71

Naphthalene

Concen: 0.472 ug/L

RT: 14.087 min Scan# 3978

Delta R.T. 0.006 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Instrument :

MSVOA_U

ClientSampleId :

E06J1

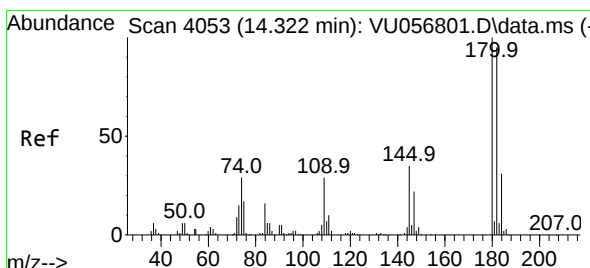
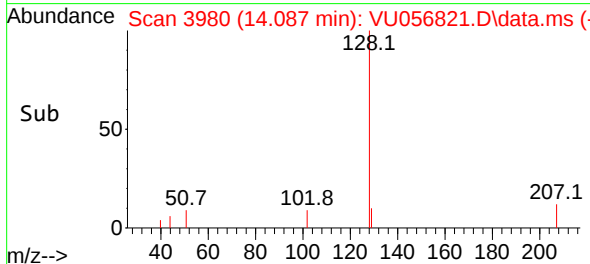
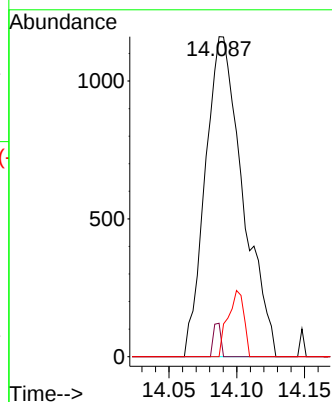
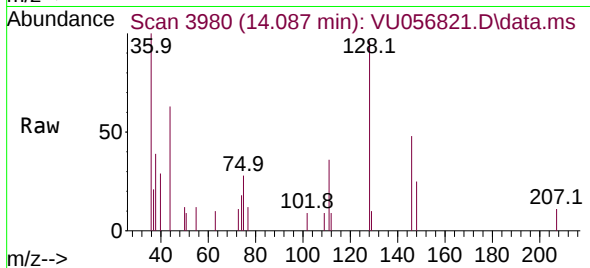
Tgt Ion:128 Resp: 2236

Ion Ratio Lower Upper

128 100

129 2.1 8.6 12.8#

127 0.0 10.2 15.2#



#72

1,2,3-Trichlorobenzene

Concen: 52.533 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. 0.003 min

Lab File: VU056821.D

Acq: 13 Dec 2023 06:38

Tgt Ion:180 Resp: 144459

Ion Ratio Lower Upper

180 100

182 95.2 75.0 112.6

145 34.4 28.6 42.8

