

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102924\
 Data File : VU061275.D
 Acq On : 28 Oct 2024 19:31
 Operator : MD/SY
 Sample : VIBLK
 Misc : 5mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 29 02:11:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM102824WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 29 02:07:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.239	114	280714	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	252922	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	114175	50.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	88859	45.067	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.140%
7) Chloroethane-d5	1.904	69	71773	41.621	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.240%
11) 1,1-Dichloroethene-d2	2.560	63	125572	34.615	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.220%
21) 2-Butanone-d5	4.615	46	129440	79.590	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.590%
24) Chloroform-d	5.052	84	164451	39.409	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.820%
26) 1,2-Dichloroethane-d4	5.692	65	109146	41.089	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.180%
32) Benzene-d6	5.718	84	353060	43.596	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.200%
36) 1,2-Dichloropropane-d6	6.679	67	106565	43.002	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.000%
41) Toluene-d8	7.891	98	323560	42.915	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.820%
43) trans-1,3-Dichloroprop...	8.171	79	52753	42.581	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.160%
47) 2-Hexanone-d5	8.624	63	100831	80.425	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	80.420%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	153235	39.288	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	78.580%
66) 1,2-Dichlorobenzene-d4	12.184	152	112144	44.369	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.740%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	5325	2.674	ug/L #	73
10) 1,1,2-Trichloro-1,2,2-...	2.567	101	2175	1.352	ug/L #	46
12) 1,1-Dichloroethene	2.570	96	3950	2.577	ug/L #	1
14) Carbon disulfide	2.785	76	27042	5.770	ug/L	98
17) trans-1,2-Dichloroethene	3.351	96	6632	3.959	ug/L	88
20) cis-1,2-Dichloroethene	4.660	96	3932	1.974	ug/L	92
34) Trichloroethene	6.541	95	4229	2.254	ug/L	84
39) cis-1,3-Dichloropropene	7.602	75	4163	1.369	ug/L	95
44) trans-1,3-Dichloropropene	8.206	75	5190	1.834	ug/L	96
46) Tetrachloroethene	8.550	164	2161	1.602	ug/L	95
51) Chlorobenzene	9.441	112	8188	1.635	ug/L	96
53) m,p-Xylene	9.692	106	3906	1.212	ug/L	92
55) Styrene	10.113	104	7561	1.454	ug/L	96
62) 1,3,5-Trimethylbenzene	11.084	105	8225	1.348	ug/L	97
63) 1,2,4-Trimethylbenzene	11.463	105	9972	1.660	ug/L	99
64) 1,3-Dichlorobenzene	11.743	146	10324	3.075	ug/L	99
65) 1,4-Dichlorobenzene	11.830	146	13294	3.896	ug/L	94
67) 1,2-Dichlorobenzene	12.203	146	9211	2.719	ug/L	92
68) 1,2-Dibromo-3-chloropr...	12.991	75	2210	3.386	ug/L	89

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Quant Title : VOC Analysis
QLast Update : Tue Oct 29 02:07:08 2024
Response via : Initial Calibration

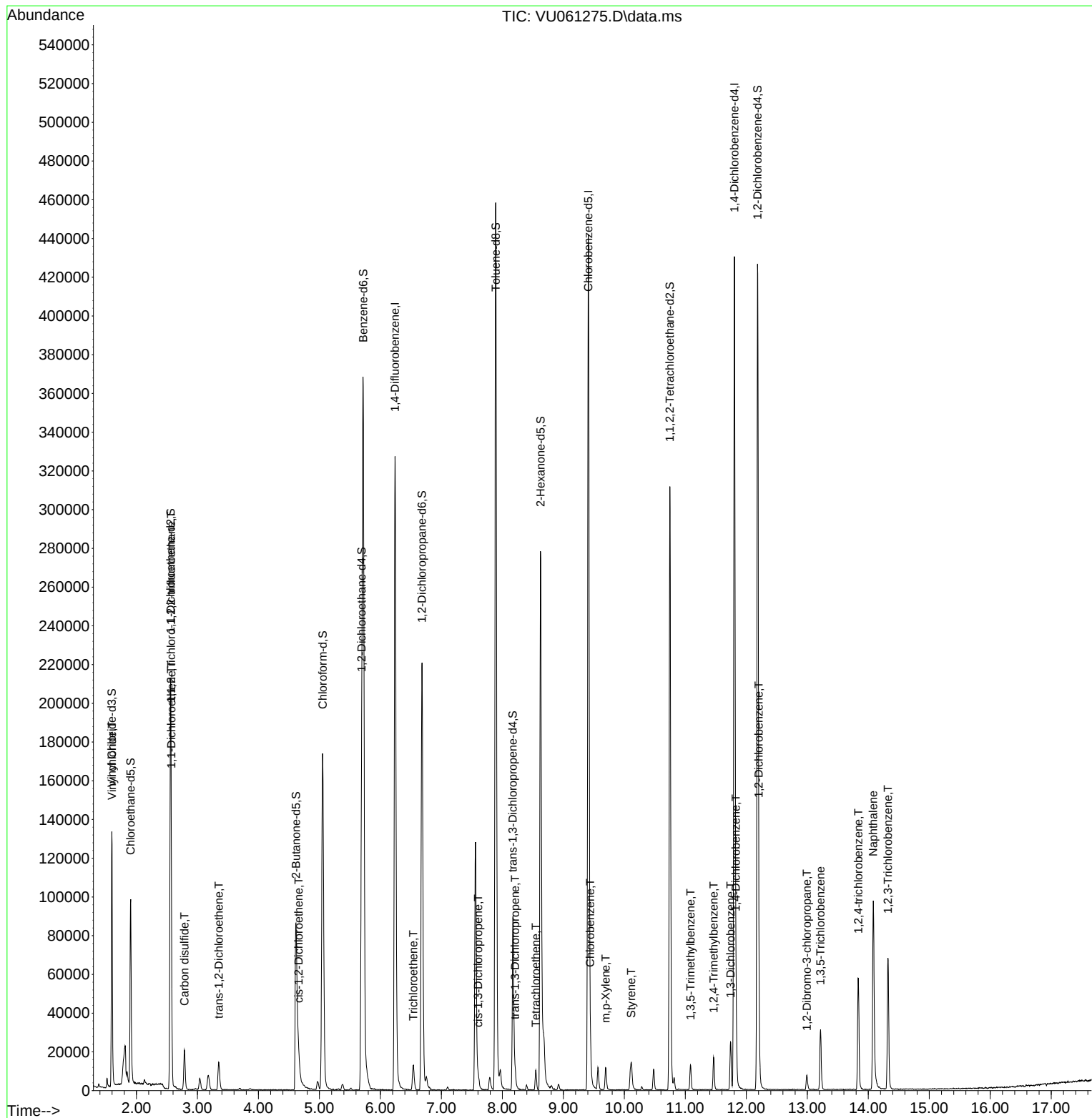
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) 1,3,5-Trichlorobenzene	13.216	180	10770	4.786	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	19193	9.972	ug/L	97
71) Naphthalene	14.081	128	91636	14.826	ug/L	100
72) 1,2,3-Trichlorobenzene	14.322	180	21893	11.647	ug/L	96

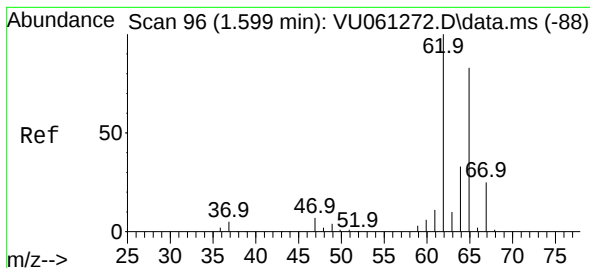
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.674 ug/L

RT: 1.599 min Scan# 90

Delta R.T. 0.000 min

Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

Instrument :

MSVOA_U

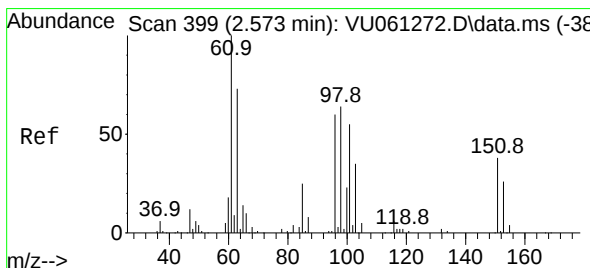
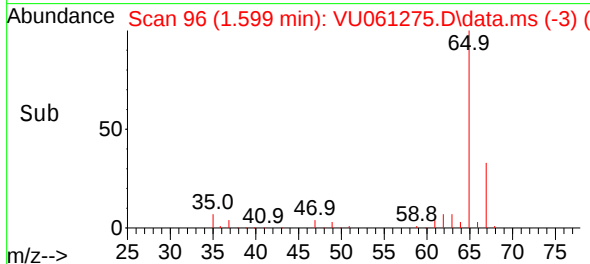
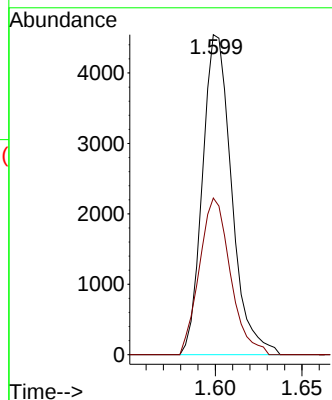
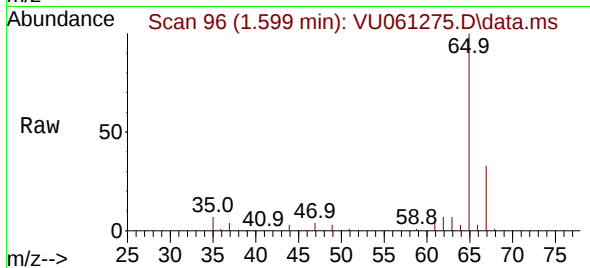
ClientSampleId :

Tgt Ion: 62 Resp: 5325

Ion Ratio Lower Upper

62 100

64 48.9 23.4 43.4#



#10

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

Concen: 1.352 ug/L

RT: 2.567 min Scan# 397

Delta R.T. -0.006 min

Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

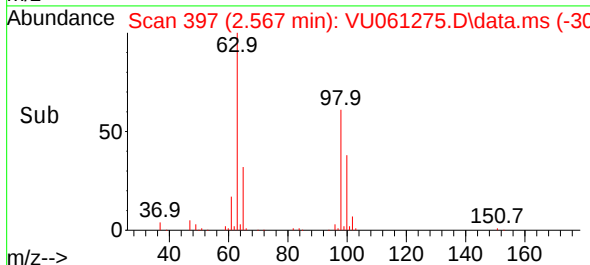
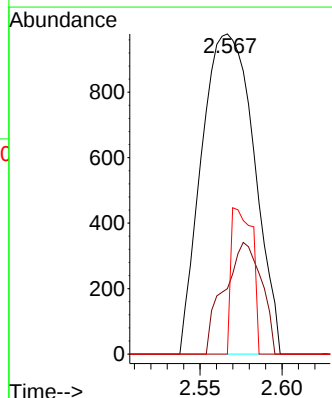
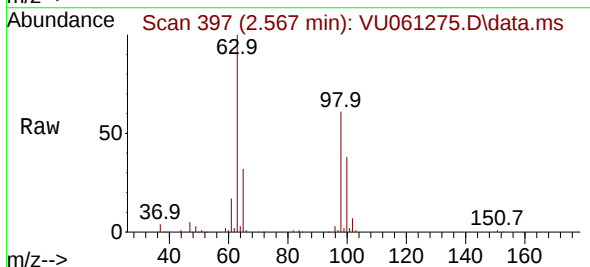
Tgt Ion: 101 Resp: 2175

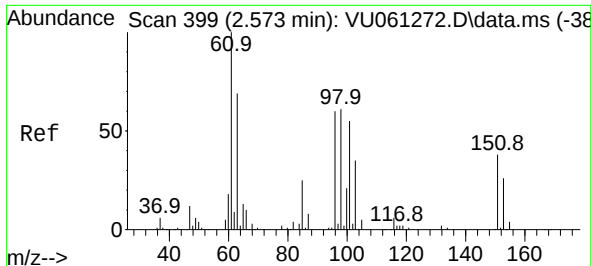
Ion Ratio Lower Upper

101 100

85 24.7 36.4 54.6#

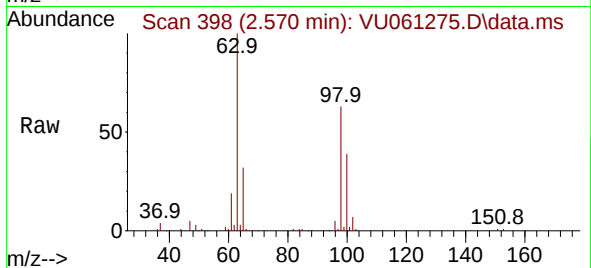
151 15.0 57.0 85.4#



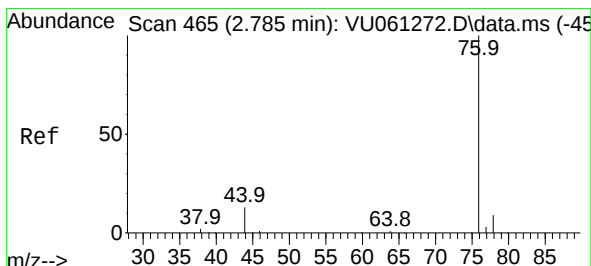
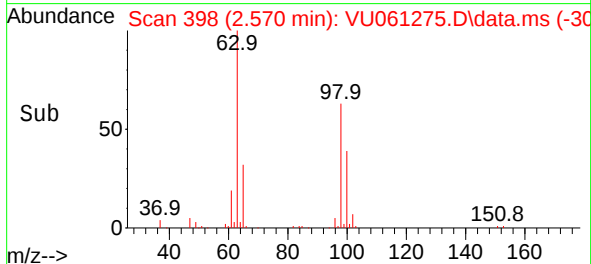
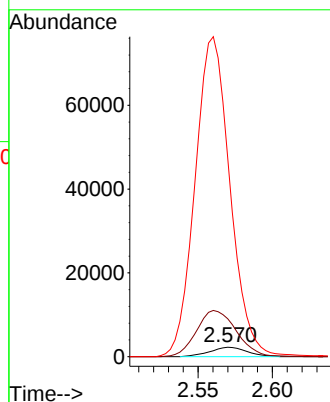


#12
1,1-Dichloroethene
Concen: 2.577 ug/L
RT: 2.570 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Instrument :
MSVOA_U
ClientSampleId :

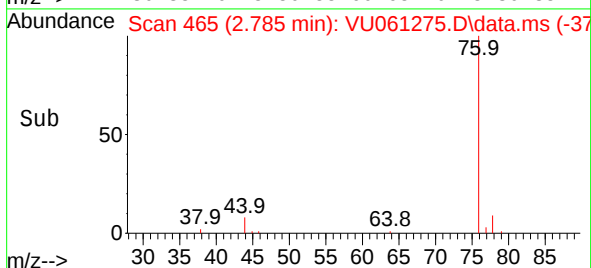
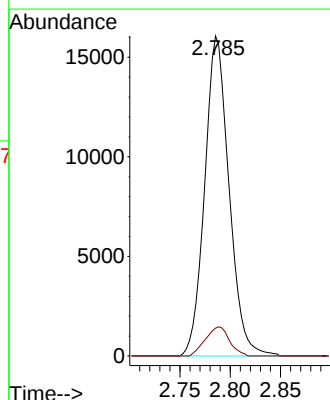
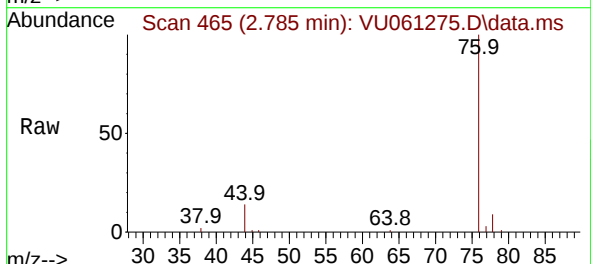


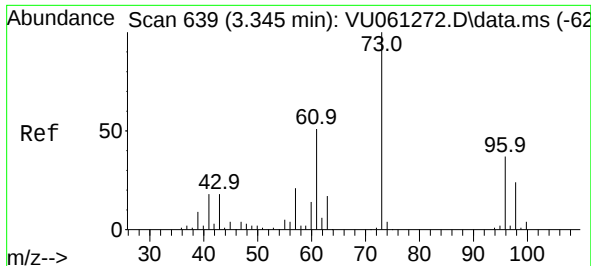
Tgt Ion: 96 Resp: 3950
Ion Ratio Lower Upper
96 100
61 405.2 117.1 217.5#
63 2120.0 86.6 160.8#



#14
Carbon disulfide
Concen: 5.770 ug/L
RT: 2.785 min Scan# 465
Delta R.T. 0.000 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Tgt Ion: 76 Resp: 27042
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.2

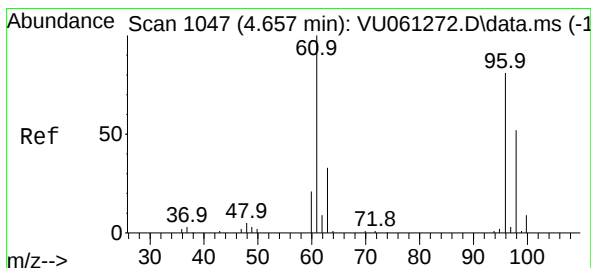
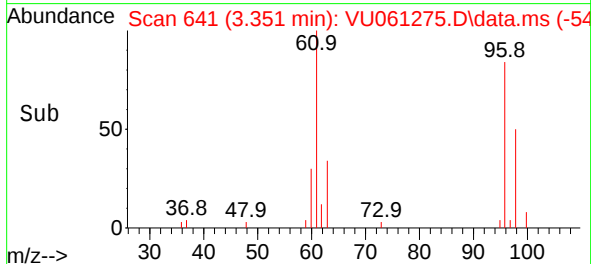
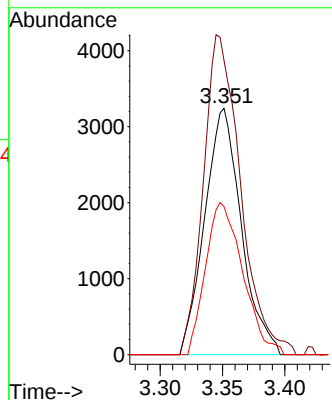
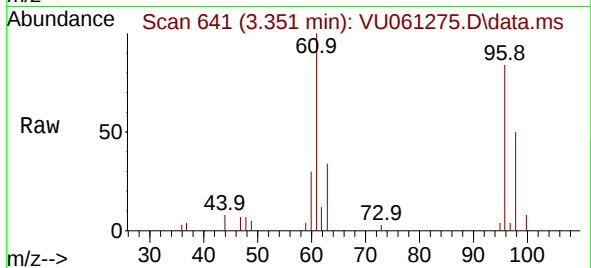




#17
trans-1,2-Dichloroethene
Concen: 3.959 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.006 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

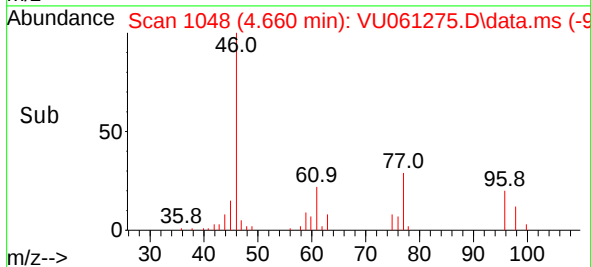
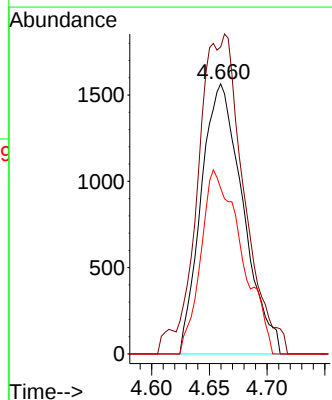
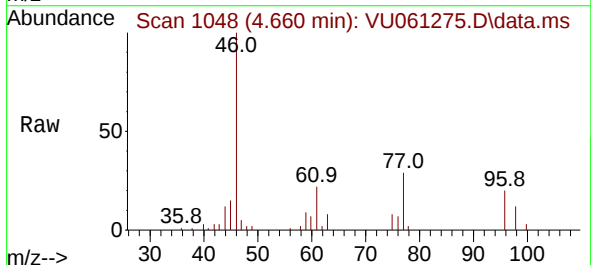
Instrument :
MSVOA_U
ClientSampleId :

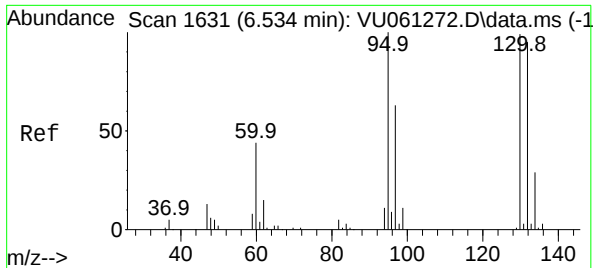
Tgt Ion: 96 Resp: 6632
Ion Ratio Lower Upper
96 100
61 119.4 95.3 177.1
98 60.1 46.0 85.4



#20
cis-1,2-Dichloroethene
Concen: 1.974 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. 0.003 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

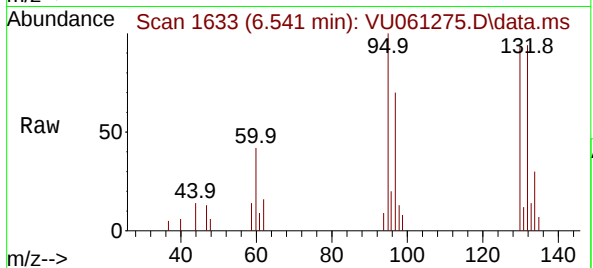
Tgt Ion: 96 Resp: 3932
Ion Ratio Lower Upper
96 100
61 113.7 87.2 161.9
98 61.3 45.2 84.0



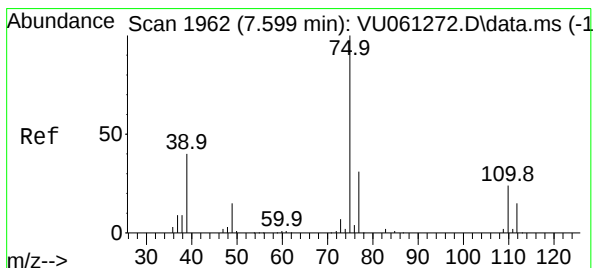
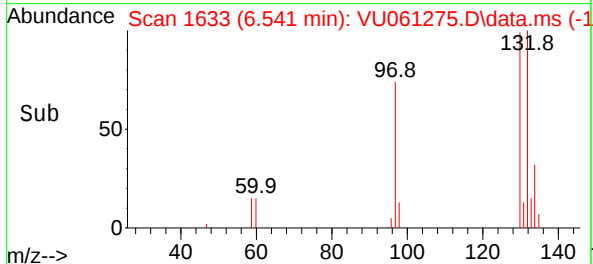
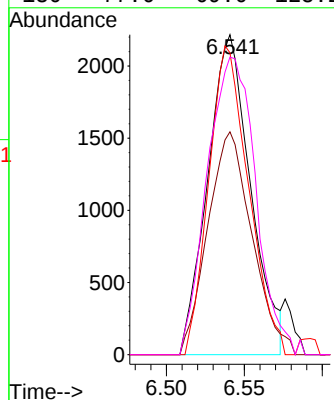


#34
Trichloroethene
Concen: 2.254 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.006 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Instrument :
MSVOA_U
ClientSampleId :

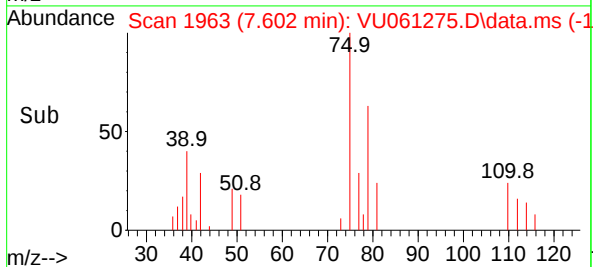
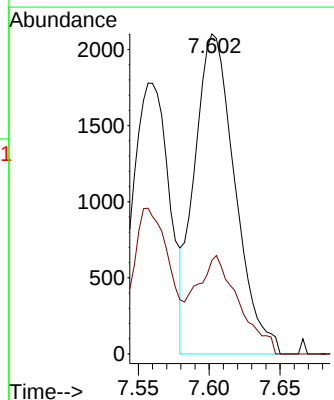
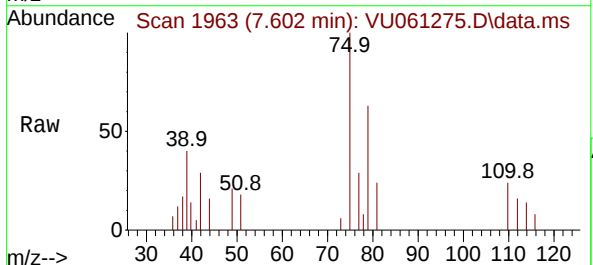


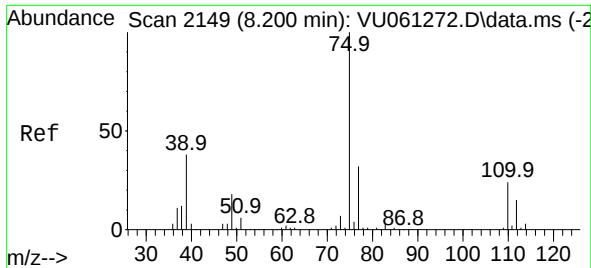
Tgt Ion: 95 Resp: 4229
Ion Ratio Lower Upper
95 100
97 58.1 44.2 82.0
132 78.7 66.6 123.6
130 77.6 69.0 128.2



#39
cis-1,3-Dichloropropene
Concen: 1.369 ug/L
RT: 7.602 min Scan# 1963
Delta R.T. 0.003 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Tgt Ion: 75 Resp: 4163
Ion Ratio Lower Upper
75 100
77 29.3 22.5 41.7

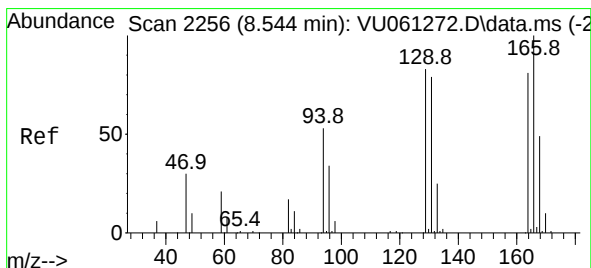
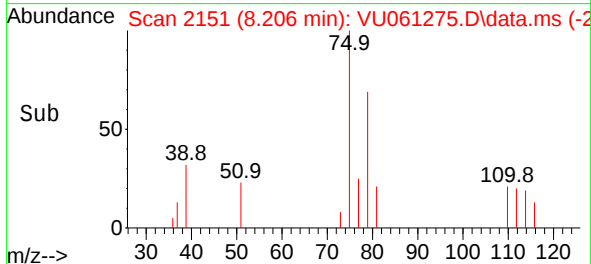
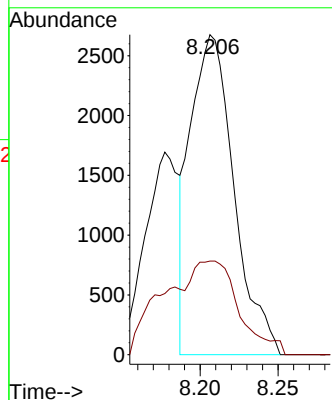
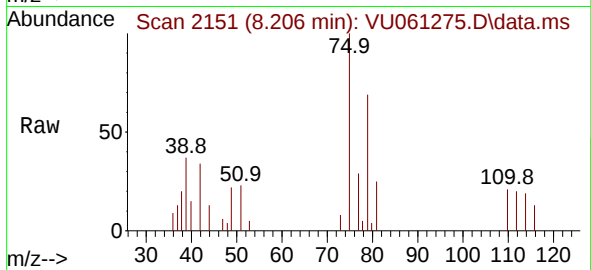




#44
trans-1,3-Dichloropropene
Concen: 1.834 ug/L
RT: 8.206 min Scan# 2149
Delta R.T. 0.006 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

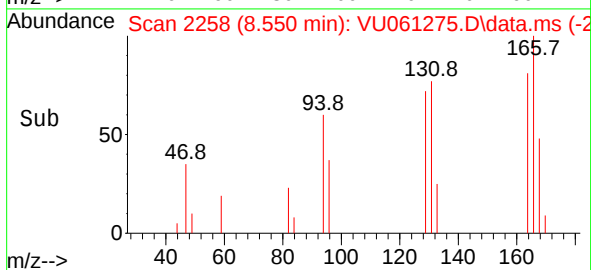
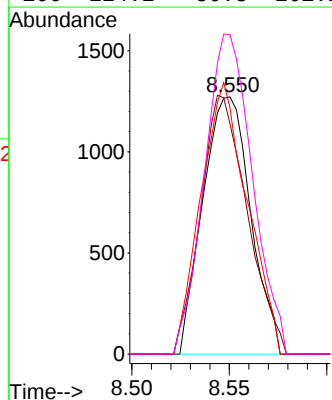
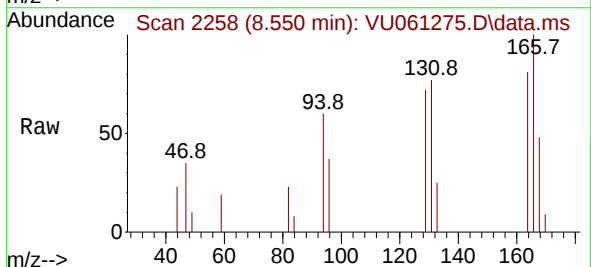
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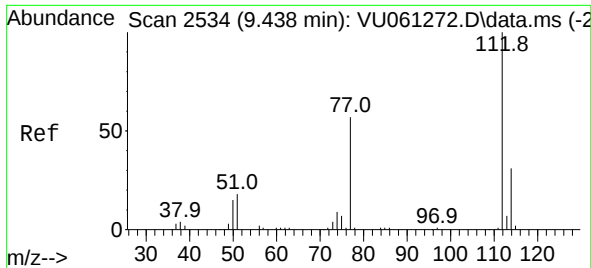
Tgt Ion: 75 Resp: 5190
Ion Ratio Lower Upper
75 100
77 29.3 22.2 41.2



#46
Tetrachloroethene
Concen: 1.602 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Tgt Ion:164 Resp: 2161
Ion Ratio Lower Upper
164 100
129 89.5 71.6 133.0
131 95.8 68.6 127.4
166 124.2 86.8 161.2

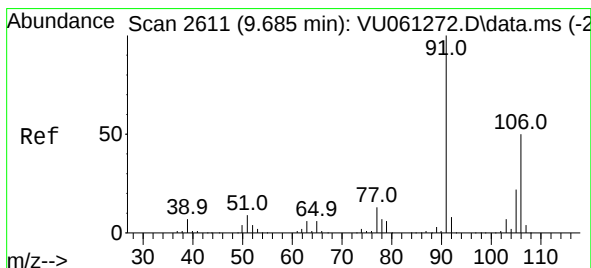
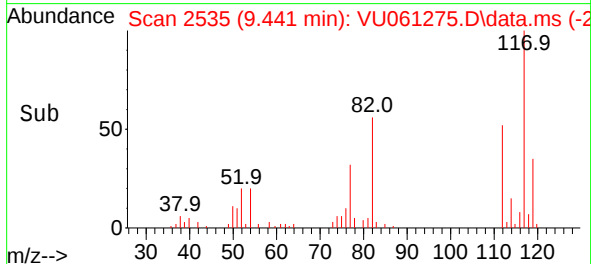
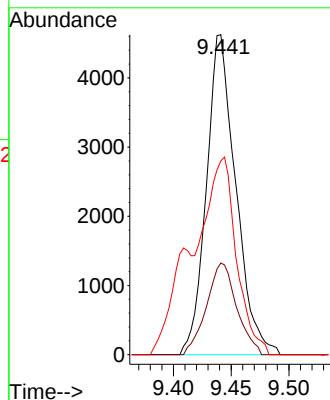
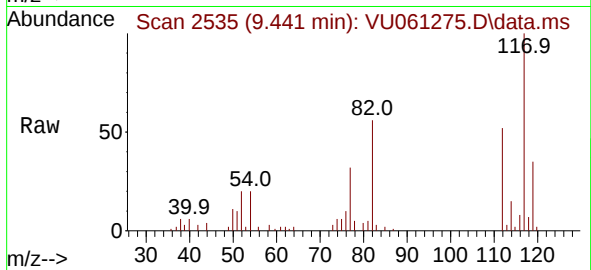




#51
Chlorobenzene
Concen: 1.635 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

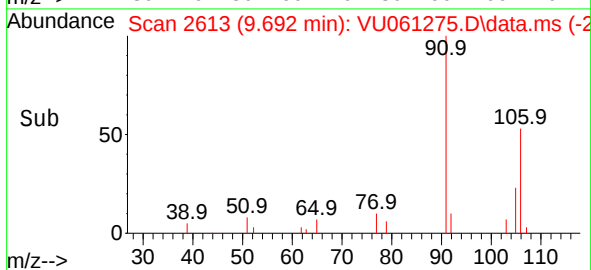
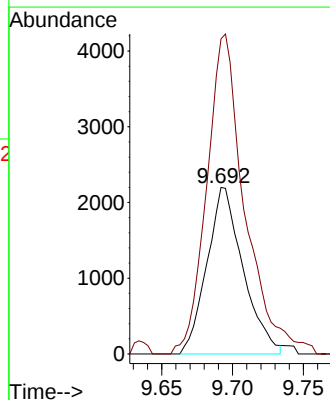
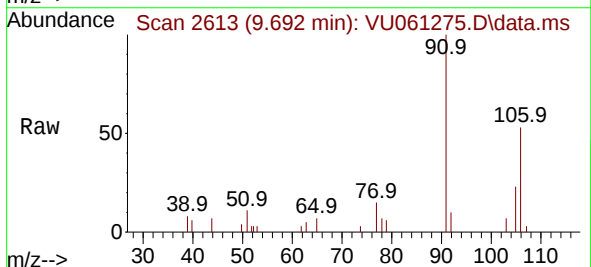
Instrument :
MSVOA_U
ClientSampleId :

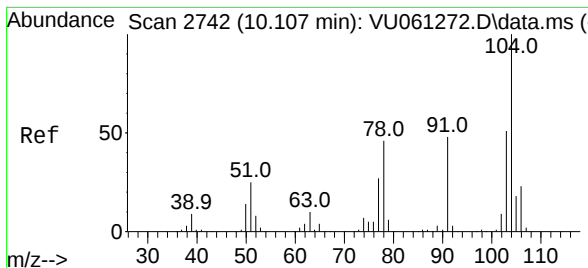
Tgt Ion:112	Resp:	8188
Ion Ratio	Lower	Upper
112	100	
114	32.4	22.0 40.8
77	60.6	45.8 68.6



#53
m,p-Xylene
Concen: 1.212 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.006 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Tgt Ion:106	Resp:	3906
Ion Ratio	Lower	Upper
106	100	
91	189.2	140.6 261.2





#55

Styrene

Concen: 1.454 ug/L

RT: 10.113 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

Instrument :

MSVOA_U

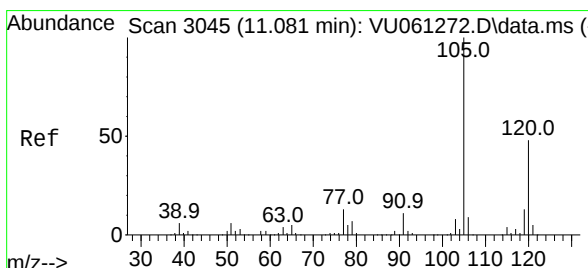
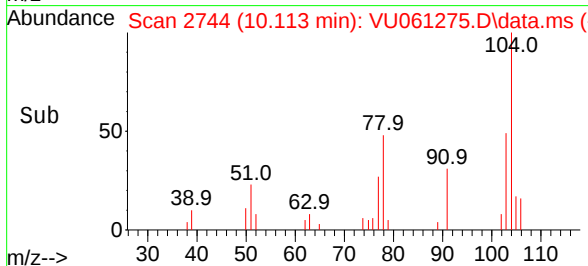
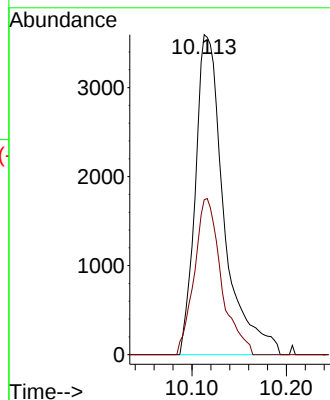
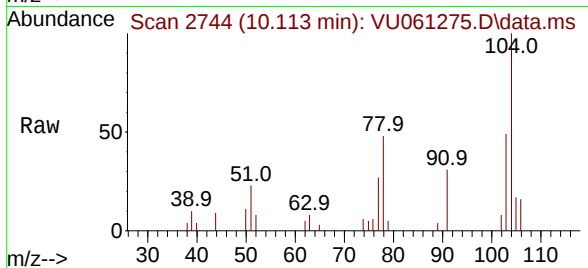
ClientSampleId :

Tgt Ion:104 Resp: 7561

Ion Ratio Lower Upper

104 100

78 48.4 32.0 59.4



#62

1,3,5-Trimethylbenzene

Concen: 1.348 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.003 min

Lab File: VU061275.D

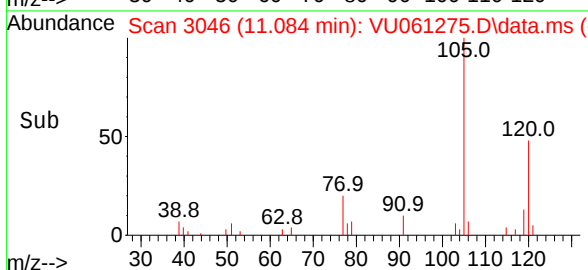
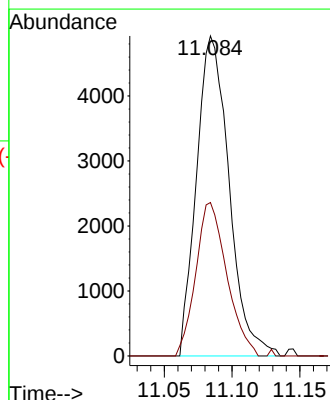
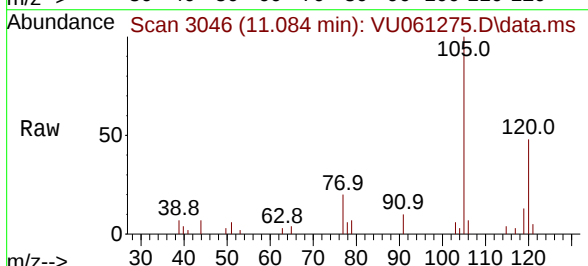
Acq: 28 Oct 2024 19:31

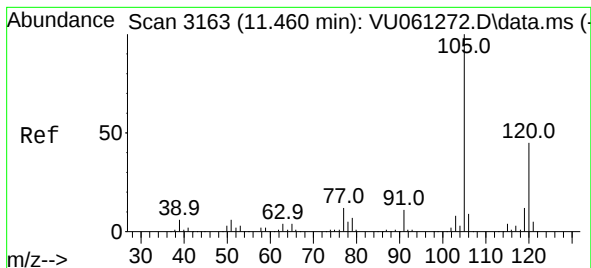
Tgt Ion:105 Resp: 8225

Ion Ratio Lower Upper

105 100

120 45.6 38.2 57.4





#63

1,2,4-Trimethylbenzene

Concen: 1.660 ug/L

RT: 11.463 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

Instrument :

MSVOA_U

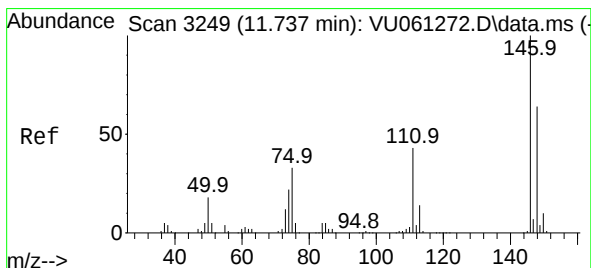
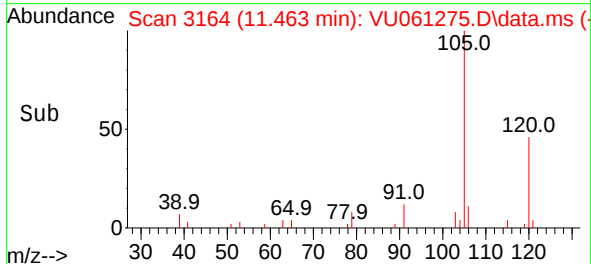
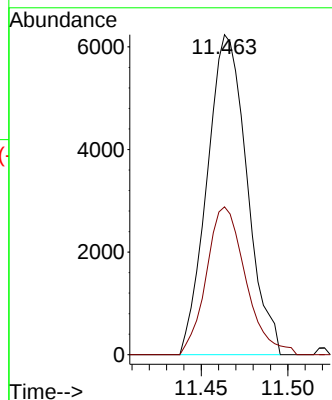
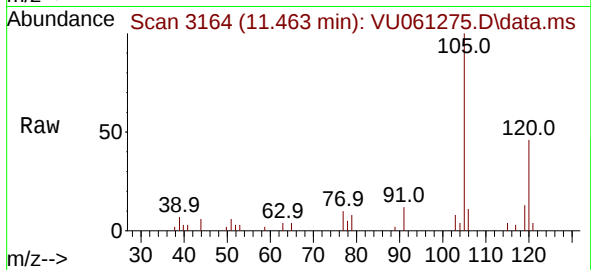
ClientSampleId :

Tgt Ion:105 Resp: 9972

Ion Ratio Lower Upper

105 100

120 45.5 35.8 53.8



#64

1,3-Dichlorobenzene

Concen: 3.075 ug/L

RT: 11.743 min Scan# 3251

Delta R.T. 0.006 min

Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

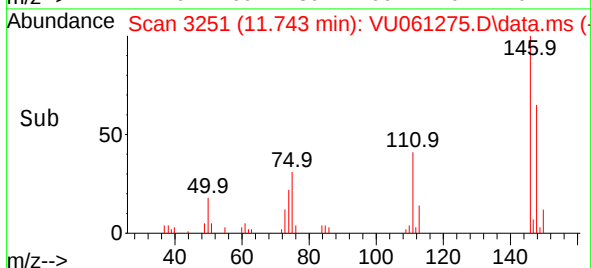
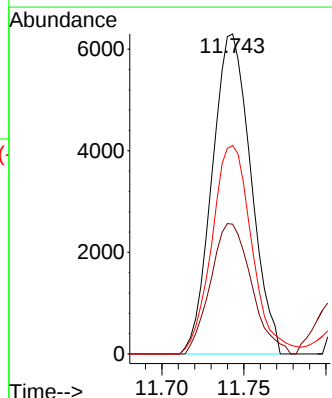
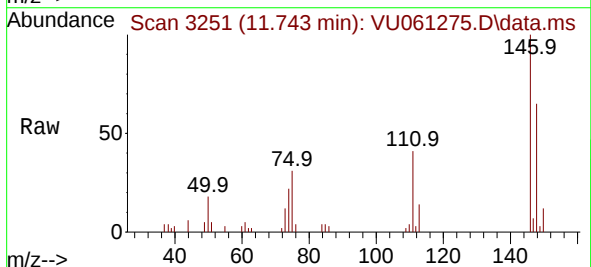
Tgt Ion:146 Resp: 10324

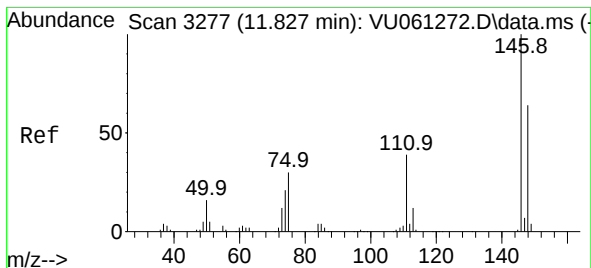
Ion Ratio Lower Upper

146 100

111 41.1 27.9 51.7

148 64.1 44.9 83.3





#65

1,4-Dichlorobenzene

Concen: 3.896 ug/L

RT: 11.830 min Scan# 31

Delta R.T. 0.003 min

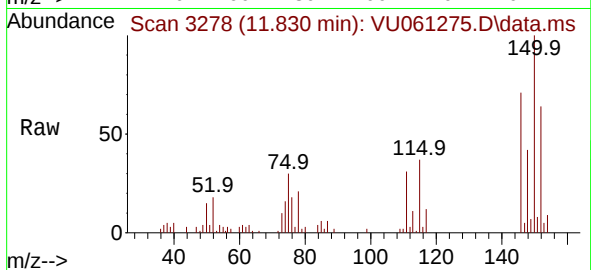
Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

Instrument :

MSVOA_U

ClientSampleId :



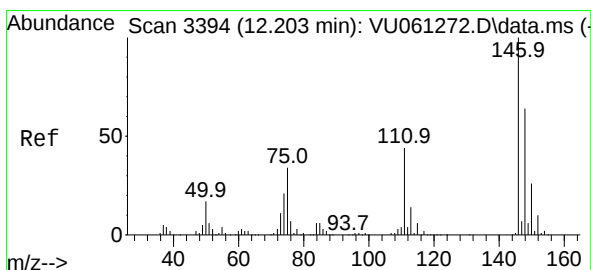
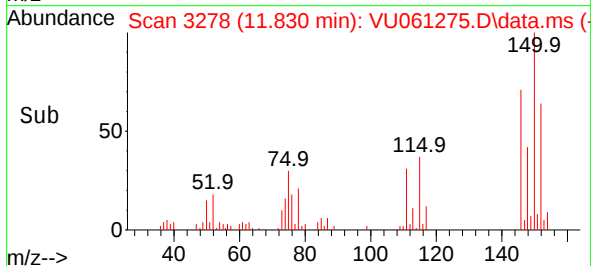
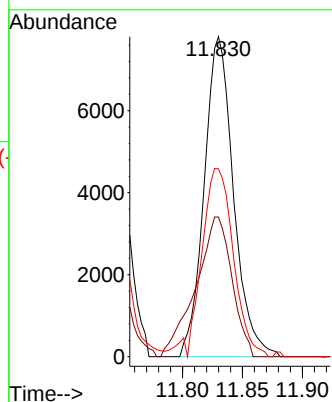
Tgt Ion:146 Resp: 13294

Ion Ratio Lower Upper

146 100

111 43.6 27.9 51.7

148 68.5 44.9 83.3



#67

1,2-Dichlorobenzene

Concen: 2.719 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU061275.D

Acq: 28 Oct 2024 19:31

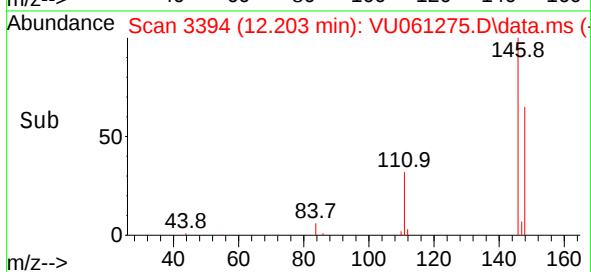
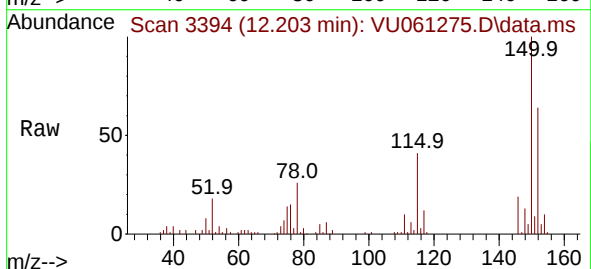
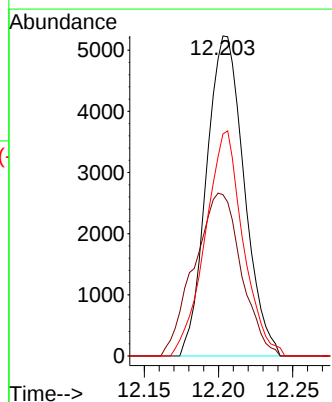
Tgt Ion:146 Resp: 9211

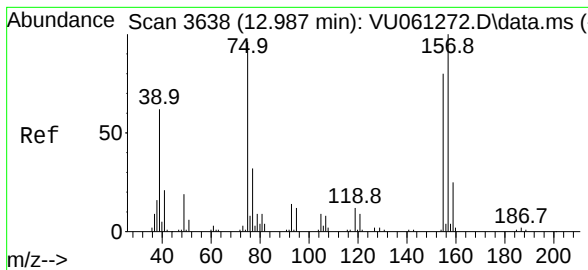
Ion Ratio Lower Upper

146 100

111 50.4 35.6 53.4

148 69.3 51.4 77.0



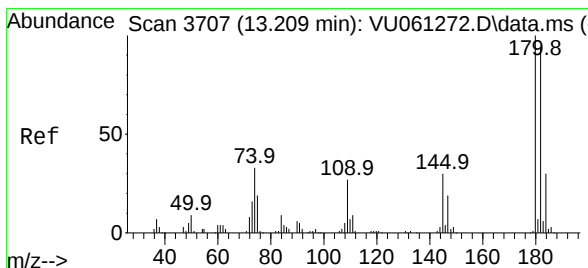
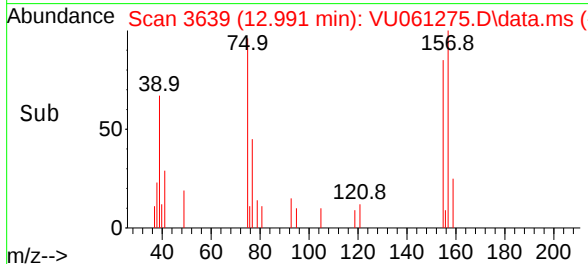
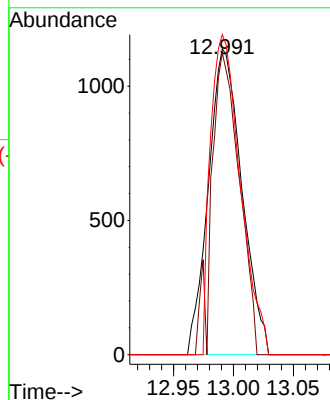
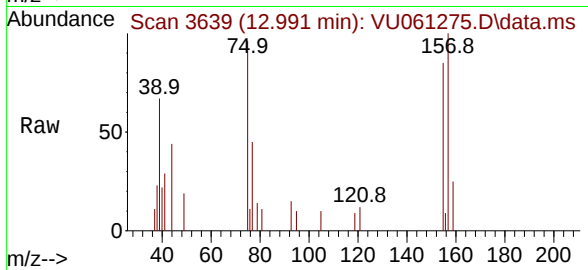


#68
 1,2-Dibromo-3-chloropropane
 Concen: 3.386 ug/L
 RT: 12.991 min Scan# 3639
 Delta R.T. 0.003 min
 Lab File: VU061275.D
 Acq: 28 Oct 2024 19:31

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion: 75 Resp: 2210

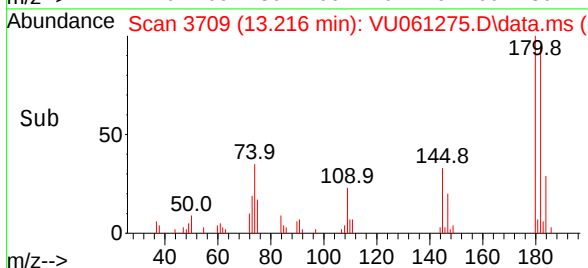
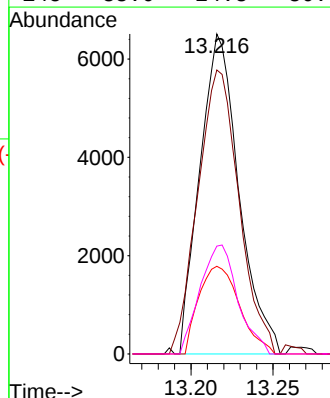
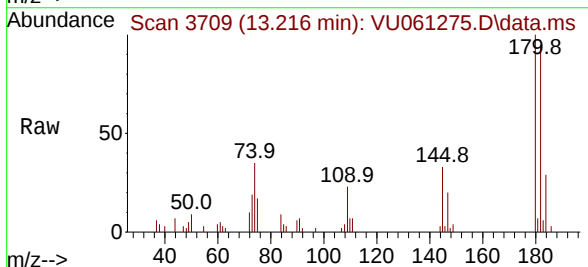
Ion	Ratio	Lower	Upper
75	100		
155	88.6	66.6	100.0
157	94.0	87.1	130.7

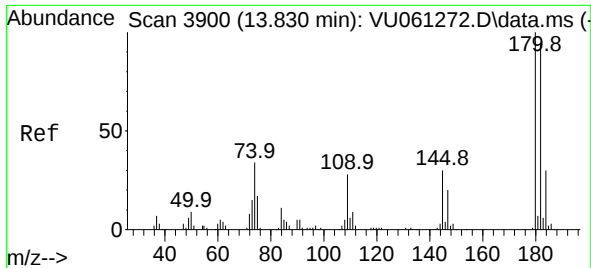


#69
 1,3,5-Trichlorobenzene
 Concen: 4.786 ug/L
 RT: 13.216 min Scan# 3709
 Delta R.T. 0.006 min
 Lab File: VU061275.D
 Acq: 28 Oct 2024 19:31

Tgt Ion:180 Resp: 10770

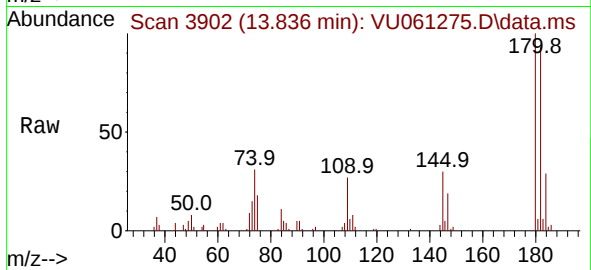
Ion	Ratio	Lower	Upper
180	100		
182	93.4	75.3	112.9
184	28.7	23.7	35.5
145	33.0	24.3	36.5



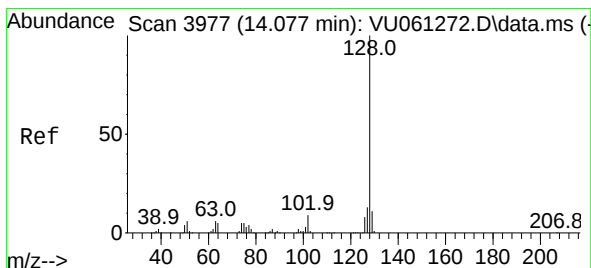
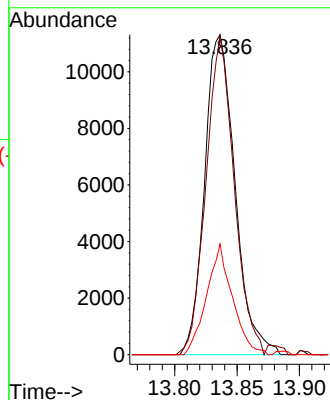
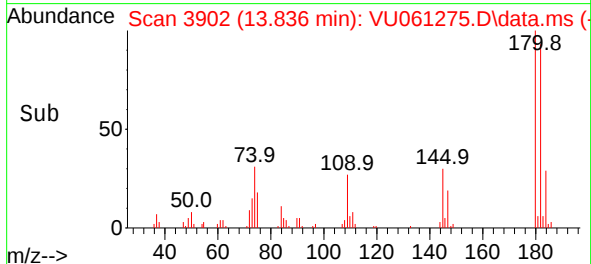


#70
1,2,4-trichlorobenzene
Concen: 9.972 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.006 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

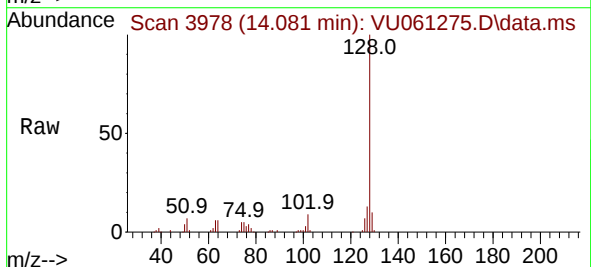
Instrument :
MSVOA_U
ClientSampleId :



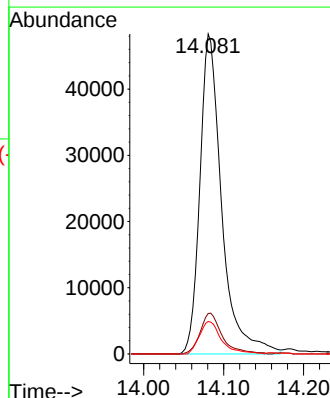
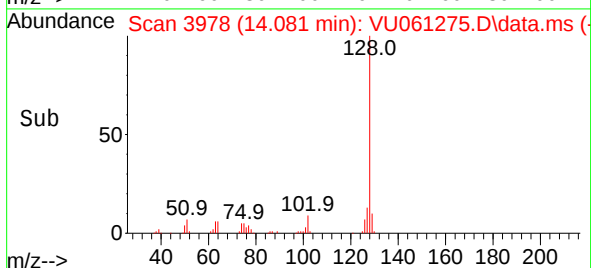
Tgt Ion:180 Resp: 19193
Ion Ratio Lower Upper
180 100
182 92.2 76.0 114.0
145 29.4 25.0 37.4

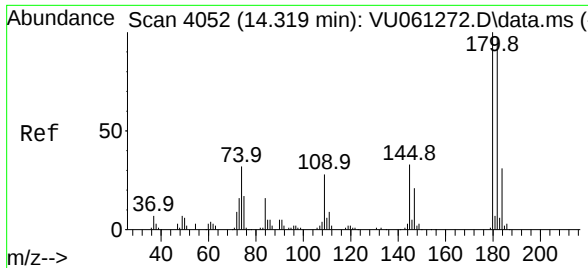


#71
Naphthalene
Concen: 14.826 ug/L
RT: 14.081 min Scan# 3978
Delta R.T. 0.003 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31



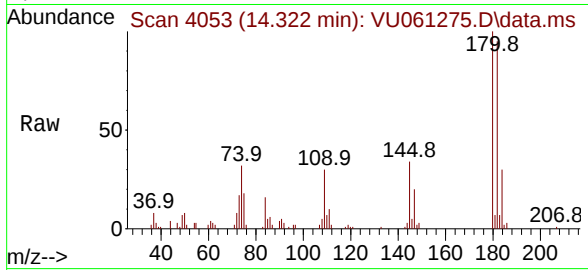
Tgt Ion:128 Resp: 91636
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.2 8.3 12.5





#72
1,2,3-Trichlorobenzene
Concen: 11.647 ug/L
RT: 14.322 min Scan# 4053
Delta R.T. 0.003 min
Lab File: VU061275.D
Acq: 28 Oct 2024 19:31

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	180	Resp:	21893
Ion	Ratio	Lower	Upper
180	100		
182	91.1	76.7	115.1
145	31.4	25.6	38.4

