

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052509.D
 Acq On : 22 Dec 2022 22:28
 Operator : JC/MD
 Sample : N6189-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 COL41

Quant Time: Dec 23 06:42:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 23 06:08:56 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	1302	5.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.420	117	1220	5.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.815	152	1095	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	194	1.471	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	29.400%#
7) Chloroethane-d5	1.906	69	58	0.510	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	10.200%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	5.000	Range	60 - 125	Recovery	=	0.000%#
20) 2-Butanone-d5	4.655	46	1058	25.865	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	51.740%
24) Chloroform-d	5.063	84	97	0.436	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	8.800%#
26) 1,2-Dichloroethane-d4	5.706	65	993	7.692	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	153.800%#
32) Benzene-d6	5.732	84	752	1.798	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	36.000%#
36) 1,2-Dichloropropane-d6	6.690	67	104	0.722	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	14.400%#
41) Toluene-d8	7.909	98	1384	3.941	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.800%
43) trans-1,3-Dichloroprop...	8.189	79	41	0.832	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	16.600%#
46) 2-Hexanone-d5	8.645	63	538	19.945	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	39.880%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	819	6.700	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	134.000%#
66) 1,2-Dichlorobenzene-d4	12.188	152	654	2.934	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	58.600%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	3562	21.301	ug/L	97
5) Vinyl chloride	1.732	62	988	6.518	ug/L	# 1
6) Bromomethane	1.851	94	45	0.521	ug/L	# 3
8) Chloroethane	1.935	64	431	4.151	ug/L	# 44
12) 1,1-Dichloroethene	2.388	96	49	0.503	ug/L	# 1
13) Acetone	2.684	43	15061	499.464	ug/L	90
14) Carbon disulfide	2.796	76	412	1.311	ug/L	# 75
15) Methyl Acetate	2.957	43	198	2.981	ug/L	# 55
16) Methylene chloride	3.041	84	152	1.103	ug/L	92
21) 2-Butanone	4.755	43	3515	79.148	ug/L	86
33) Benzene	5.777	78	4027	9.164	ug/L	100
34) Trichloroethene	6.546	95	353	3.436	ug/L	# 80
39) cis-1,3-Dichloropropene	7.417	75	40	0.258	ug/L	# 43
40) 4-Methyl-2-pentanone	7.796	43	5340	59.594	ug/L	# 91
42) Toluene	7.970	91	2578	6.119	ug/L	95
48) 2-Hexanone	8.693	43	2086	30.884	ug/L	# 82
52) Ethylbenzene	9.568	91	96	0.220	ug/L	# 45
60) Isopropylbenzene	10.484	105	758	1.068	ug/L	# 70
62) 1,3,5-Trimethylbenzene	11.475	105	209	0.357	ug/L	# 29

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

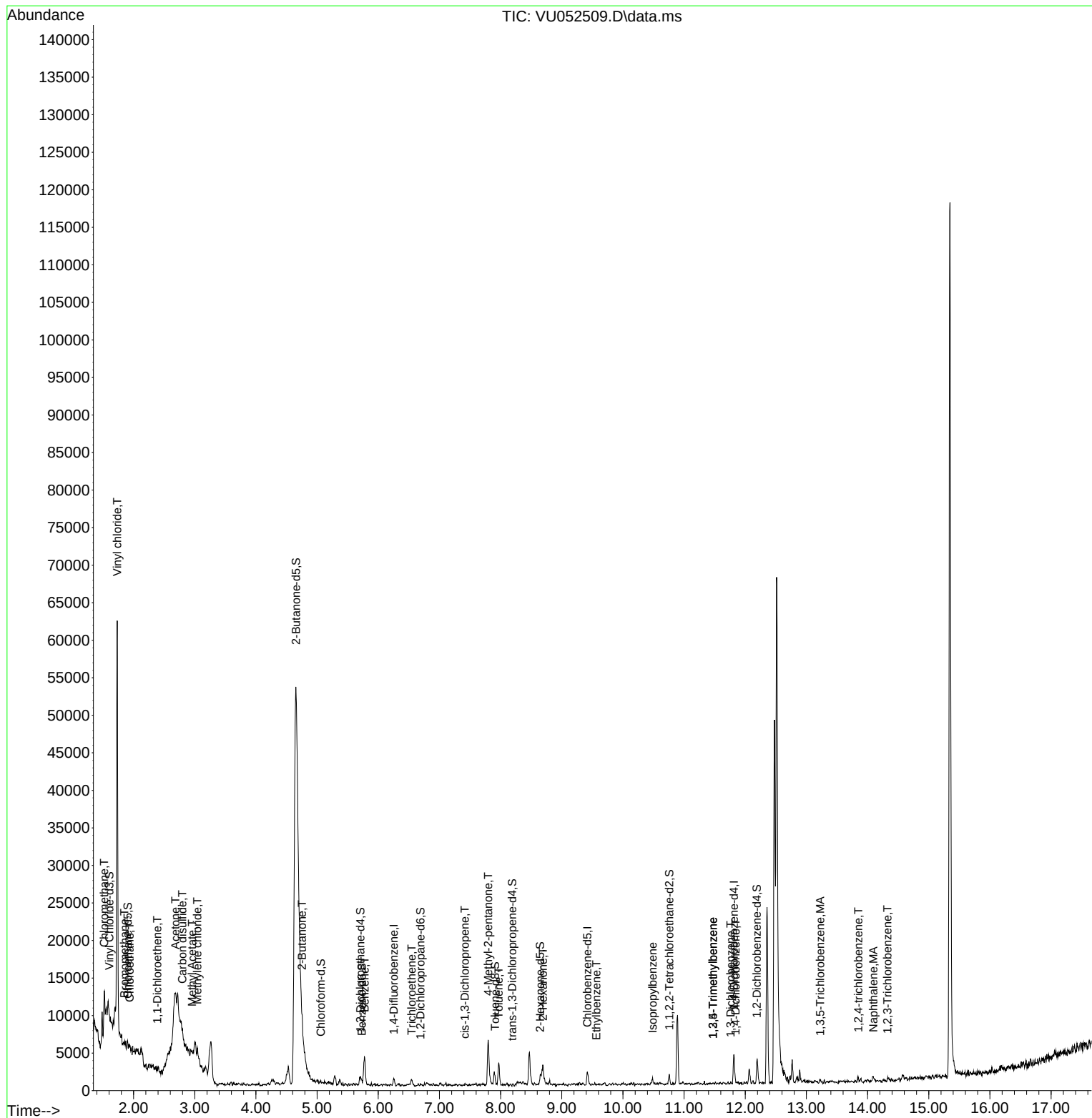
63) 1,2,4-Trimethylbenzene	11.475	105	209	0.355	ug/L #	32
64) 1,3-Dichlorobenzene	11.761	146	41	0.116	ug/L #	25
65) 1,4-Dichlorobenzene	11.841	146	147	0.404	ug/L #	25
69) 1,3,5-Trichlorobenzene	13.227	180	200	0.771	ug/L #	39
70) 1,2,4-trichlorobenzene	13.847	180	297	1.361	ug/L #	57
71) Naphthalene	14.095	128	1283	2.906	ug/L #	75
72) 1,2,3-Trichlorobenzene	14.327	180	257	1.175	ug/L #	73

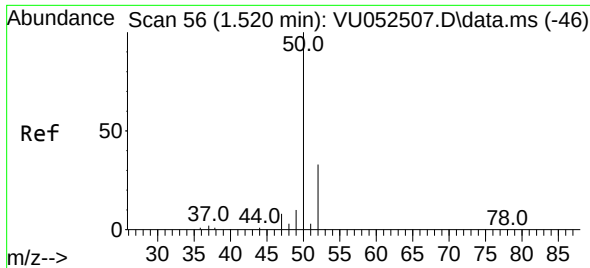
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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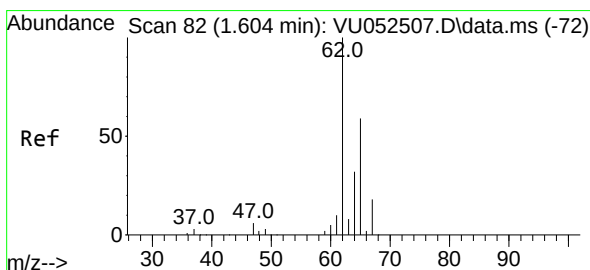
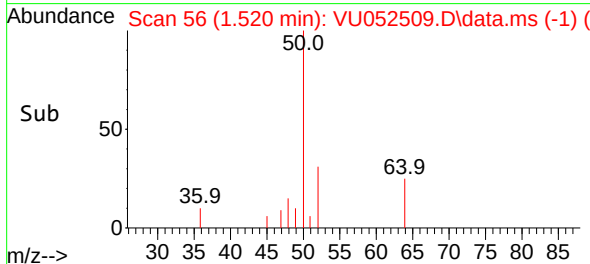
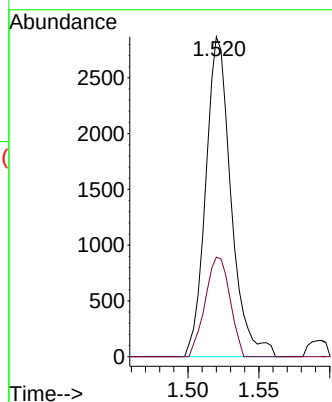
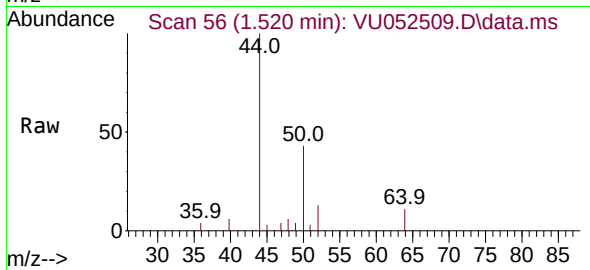




#3
Chloromethane
Concen: 21.301 ug/L
RT: 1.520 min Scan# 50
Delta R.T. -0.000 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

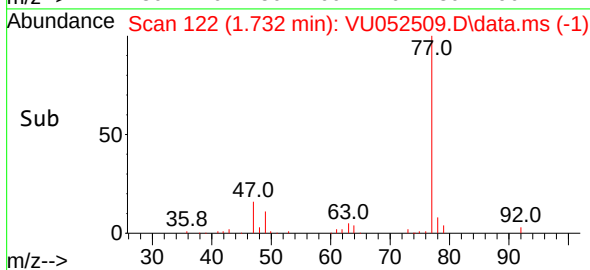
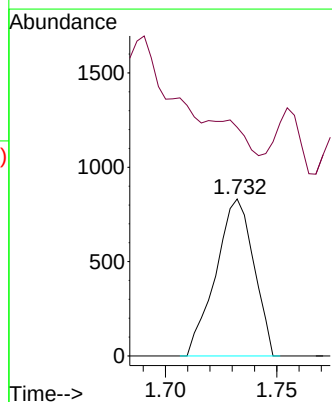
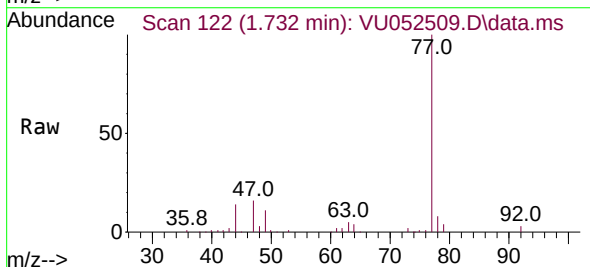
Instrument :
MSVOA_U
ClientSampleId :
COL41

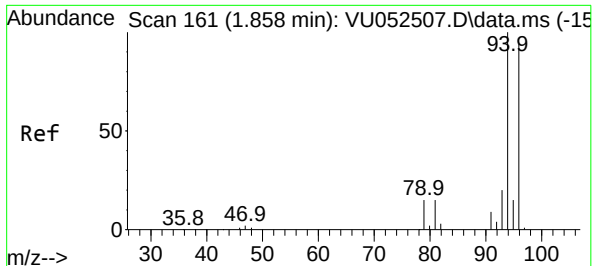
Tgt Ion: 50 Resp: 3562
Ion Ratio Lower Upper
50 100
52 31.1 23.0 42.6



#5
Vinyl chloride
Concen: 6.518 ug/L
RT: 1.732 min Scan# 122
Delta R.T. 0.129 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Tgt Ion: 62 Resp: 988
Ion Ratio Lower Upper
62 100
64 145.7 24.4 45.4#

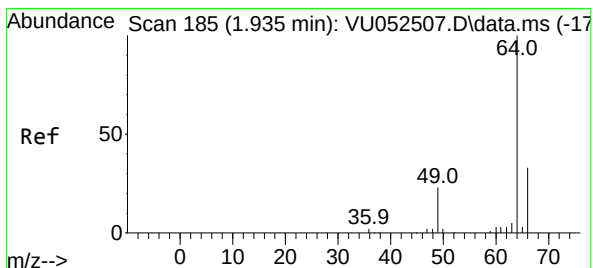
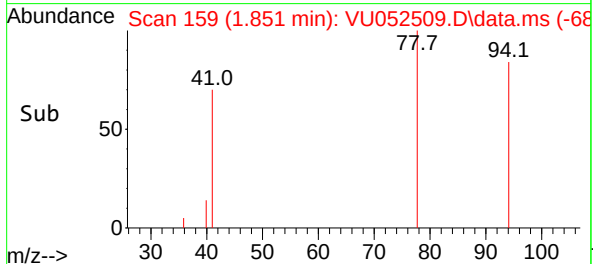
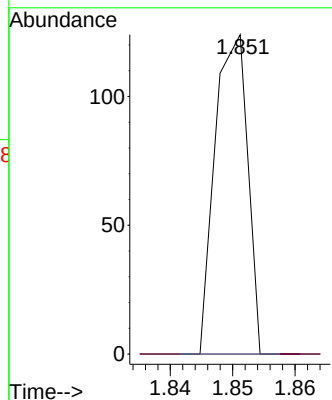
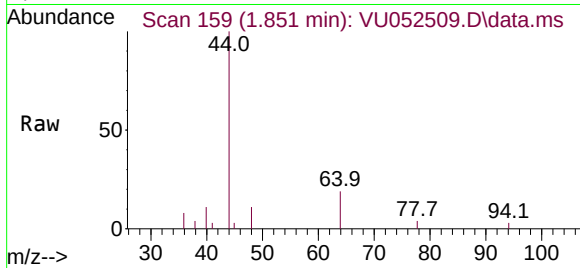




#6
Bromomethane
Concen: 0.521 ug/L
RT: 1.851 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

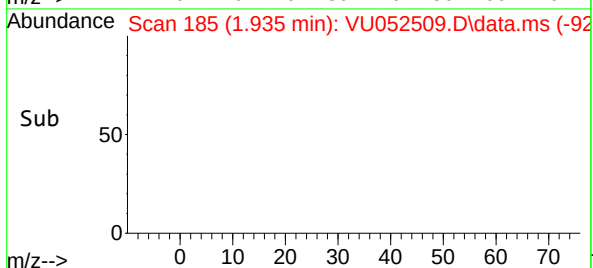
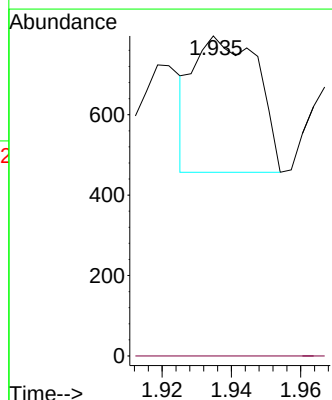
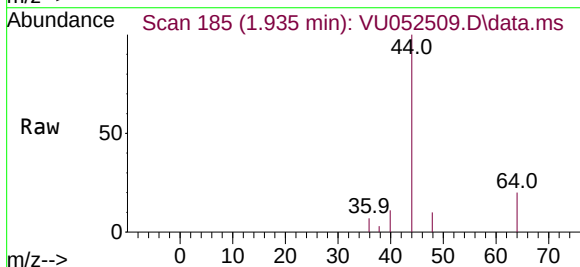
Instrument :
MSVOA_U
ClientSampleId :
COL41

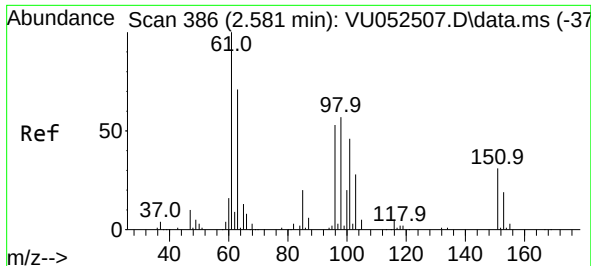
Tgt Ion: 94 Resp: 45
Ion Ratio Lower Upper
94 100
96 0.0 65.0 120.8#



#8
Chloroethane
Concen: 4.151 ug/L
RT: 1.935 min Scan# 185
Delta R.T. -0.000 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Tgt Ion: 64 Resp: 431
Ion Ratio Lower Upper
64 100
66 0.0 21.3 39.5#





#12

1,1-Dichloroethene

Concen: 0.503 ug/L

RT: 2.388 min Scan# 31

Delta R.T. -0.193 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

MSVOA_U

ClientSampleId :

COL41

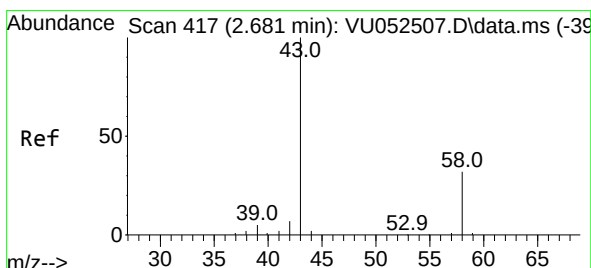
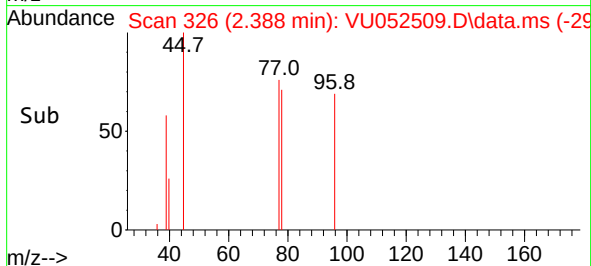
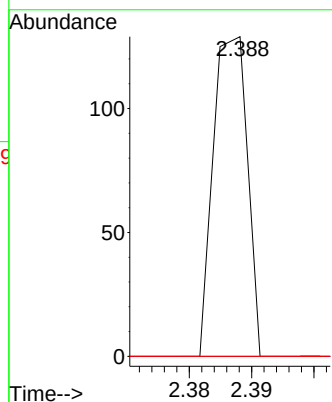
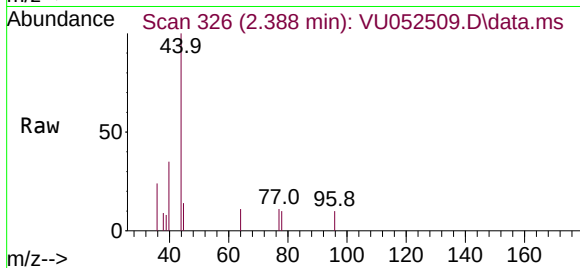
Tgt Ion: 96 Resp: 49

Ion Ratio Lower Upper

96 100

61 0.0 135.4 251.4#

63 0.0 95.4 177.2#



#13

Acetone

Concen: 499.464 ug/L

RT: 2.684 min Scan# 418

Delta R.T. 0.003 min

Lab File: VU052509.D

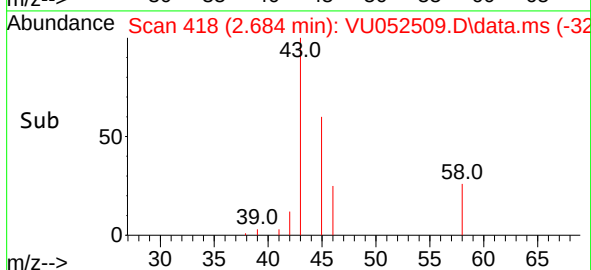
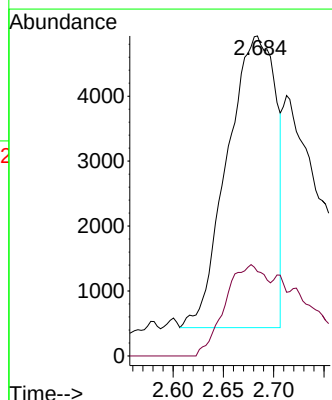
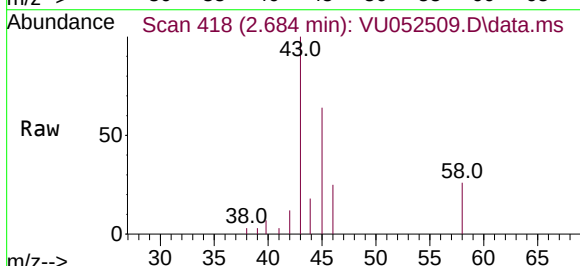
Acq: 22 Dec 2022 22:28

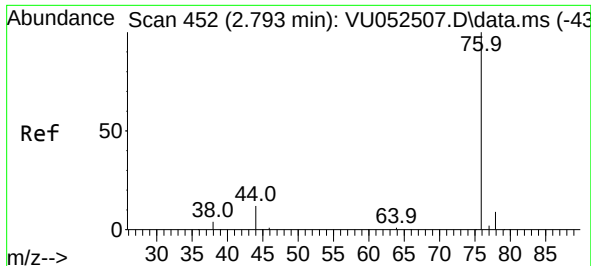
Tgt Ion: 43 Resp: 15061

Ion Ratio Lower Upper

43 100

58 26.9 0.0 65.4





#14

Carbon disulfide

Concen: 1.311 ug/L

RT: 2.796 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

MSVOA_U

ClientSampleId :

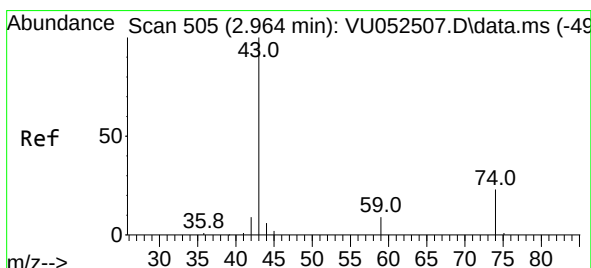
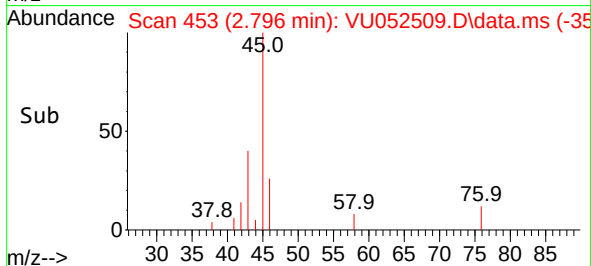
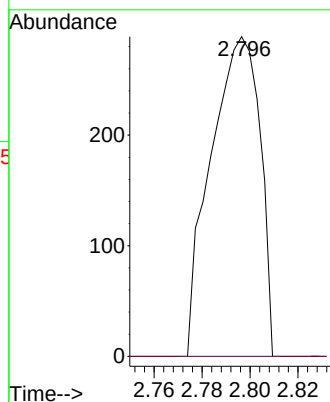
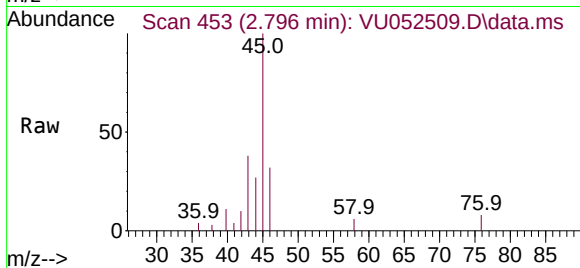
COL41

Tgt Ion: 76 Resp: 412

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#15

Methyl Acetate

Concen: 2.981 ug/L

RT: 2.957 min Scan# 503

Delta R.T. -0.006 min

Lab File: VU052509.D

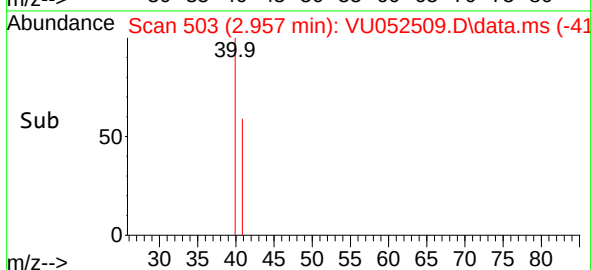
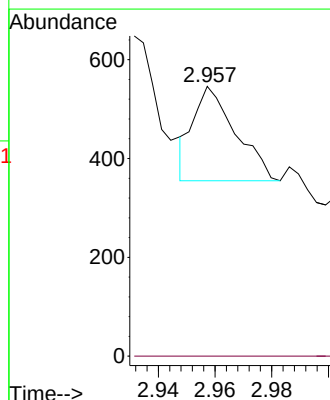
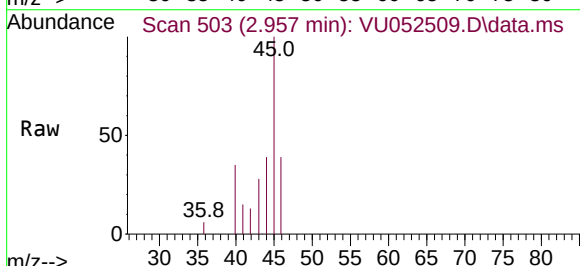
Acq: 22 Dec 2022 22:28

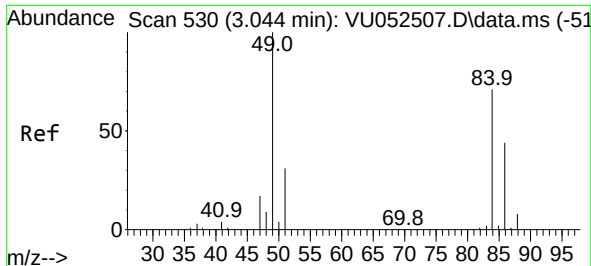
Tgt Ion: 43 Resp: 198

Ion Ratio Lower Upper

43 100

74 0.0 16.9 25.3#





#16

Methylene chloride

Concen: 1.103 ug/L

RT: 3.041 min Scan# 51

Delta R.T. -0.003 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

MSVOA_U

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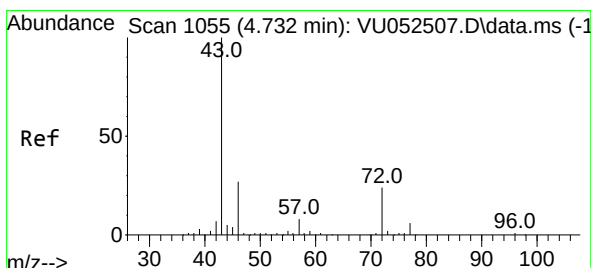
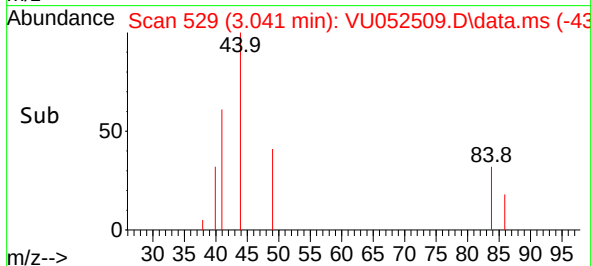
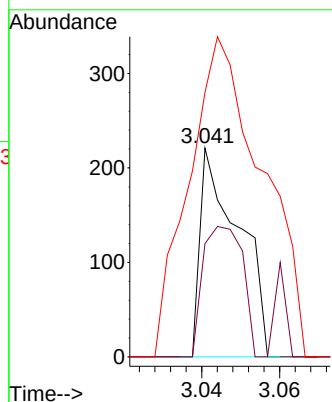
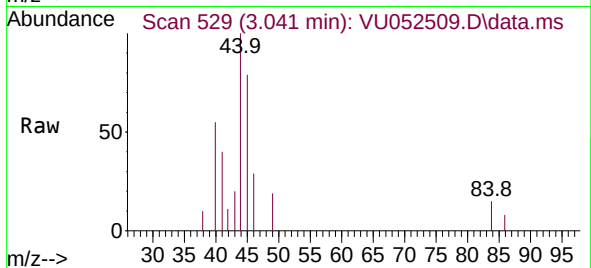
Tgt Ion: 84 Resp: 152

Ion Ratio Lower Upper

84 100

86 54.3 44.7 83.1

49 126.7 93.3 173.3



#21

2-Butanone

Concen: 79.148 ug/L

RT: 4.755 min Scan# 1062

Delta R.T. 0.022 min

Lab File: VU052509.D

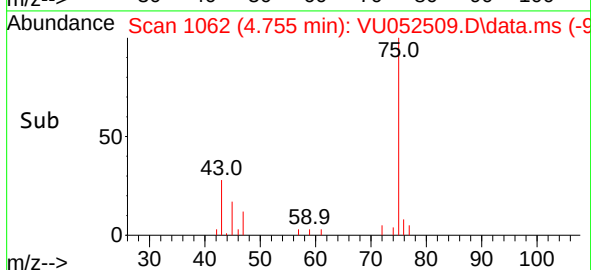
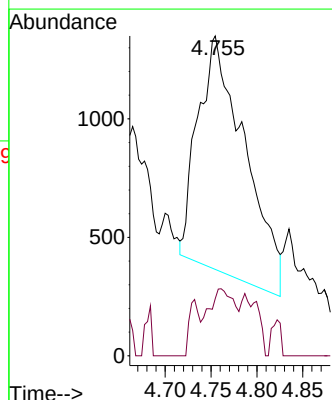
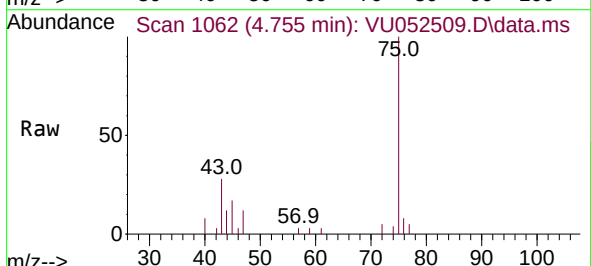
Acq: 22 Dec 2022 22:28

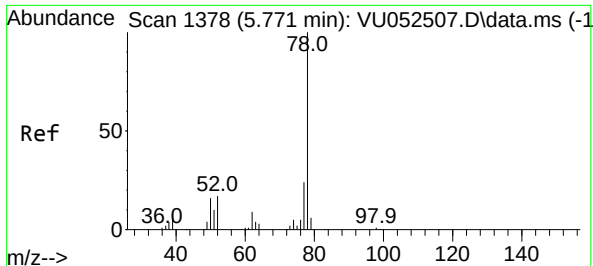
Tgt Ion: 43 Resp: 3515

Ion Ratio Lower Upper

43 100

72 16.3 11.6 34.7

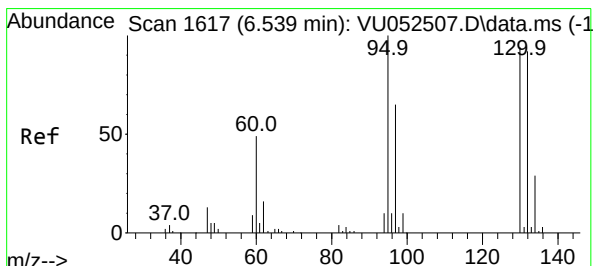
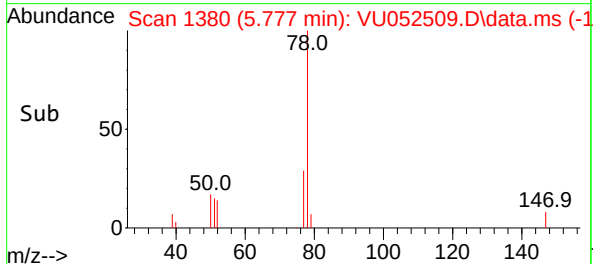
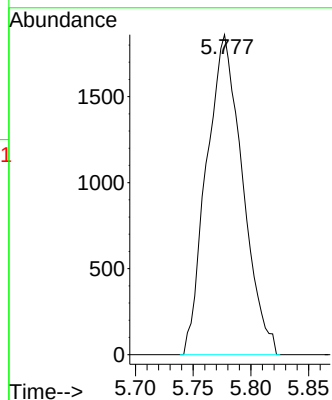
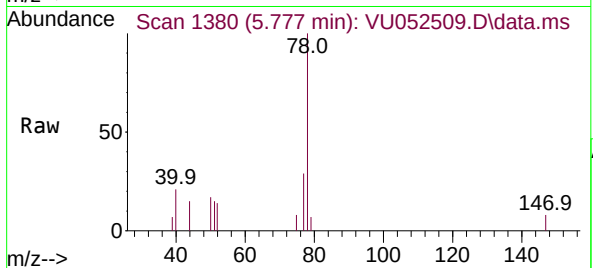




#33
Benzene
Concen: 9.164 ug/L
RT: 5.777 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU052509.D
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Instrument :
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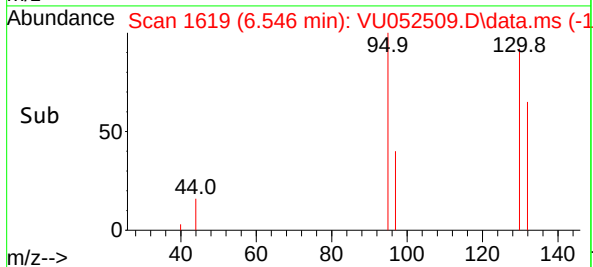
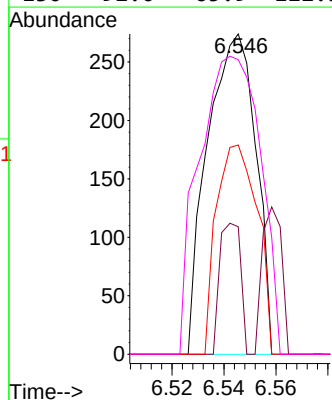
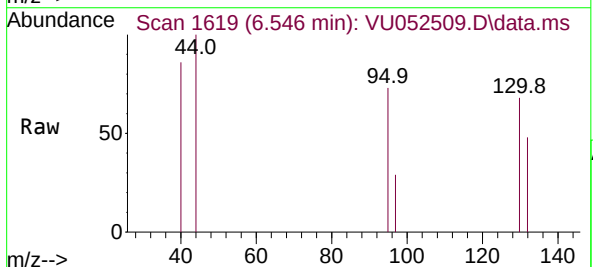
Tgt Ion: 78 Resp: 4027

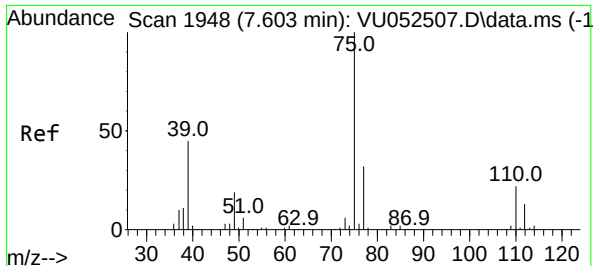


#34
Trichloroethene
Concen: 3.436 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.006 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Tgt Ion: 95 Resp: 353

Ion	Ratio	Lower	Upper
95	100		
97	39.8	46.3	86.1
132	65.3	63.9	118.7
130	92.0	65.9	122.5





#39

cis-1,3-Dichloropropene

Concen: 0.258 ug/L

RT: 7.417 min Scan# 11

Delta R.T. -0.187 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

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ClientSampleId :

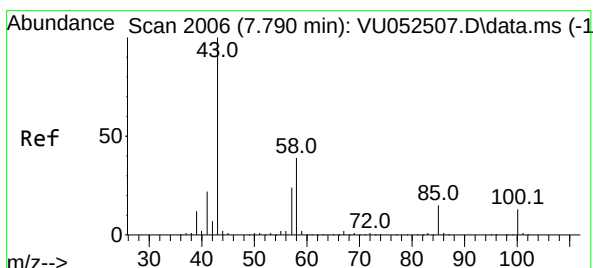
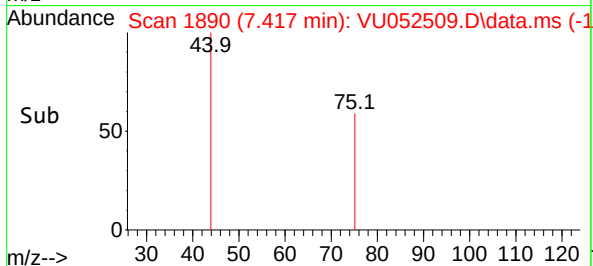
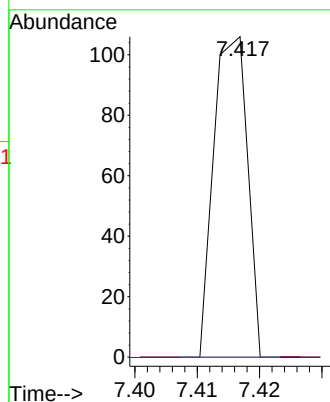
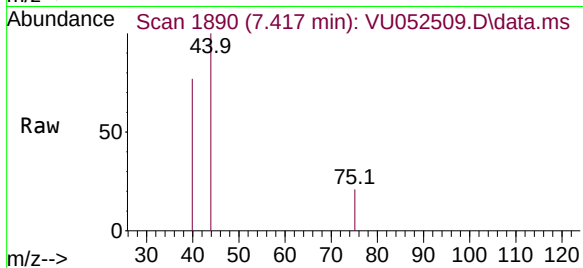
COL41

Tgt Ion: 75 Resp: 40

Ion Ratio Lower Upper

75 100

77 0.0 22.0 41.0#



#40

4-Methyl-2-pentanone

Concen: 59.594 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.006 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

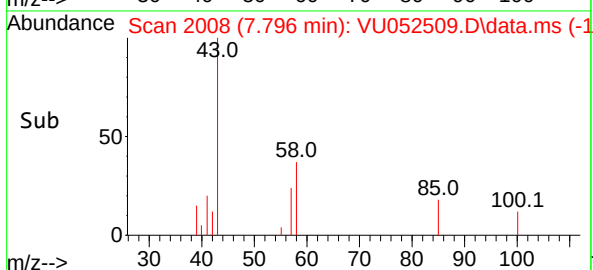
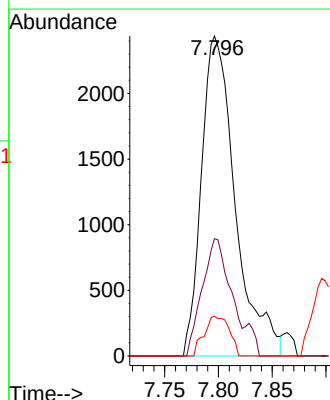
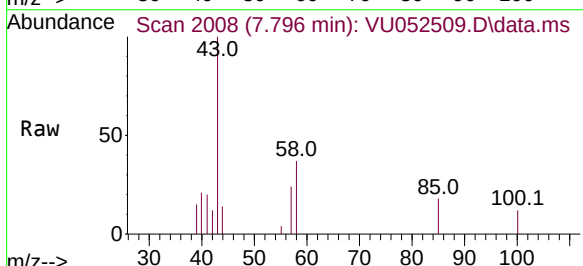
Tgt Ion: 43 Resp: 5340

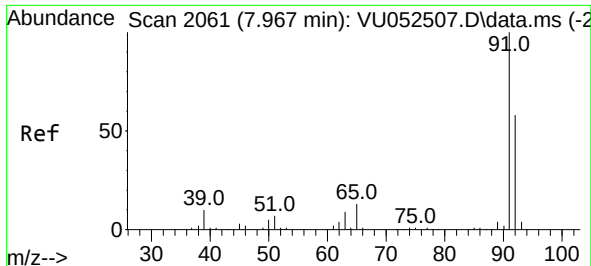
Ion Ratio Lower Upper

43 100

58 33.1 30.6 45.8

100 9.2 10.4 15.6#





#42

Toluene

Concen: 6.119 ug/L

RT: 7.970 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

MSVOA_U

ClientSampleId :

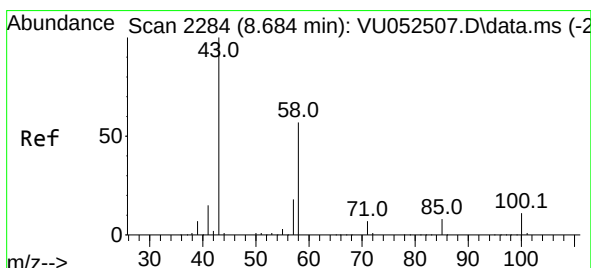
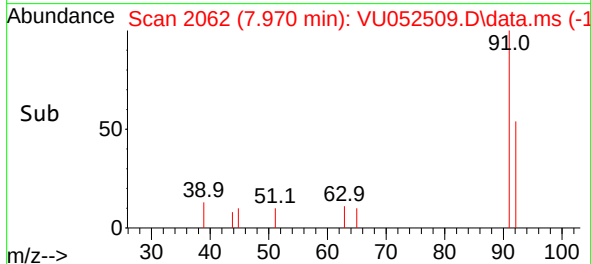
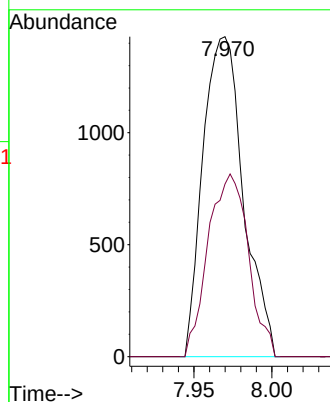
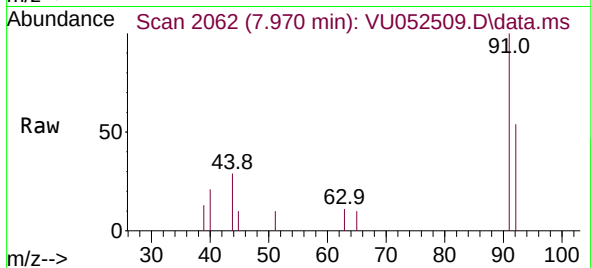
COL41

Tgt Ion: 91 Resp: 2578

Ion Ratio Lower Upper

91 100

92 54.0 40.6 75.4



#48

2-Hexanone

Concen: 30.884 ug/L

RT: 8.693 min Scan# 2287

Delta R.T. 0.010 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Tgt Ion: 43 Resp: 2086

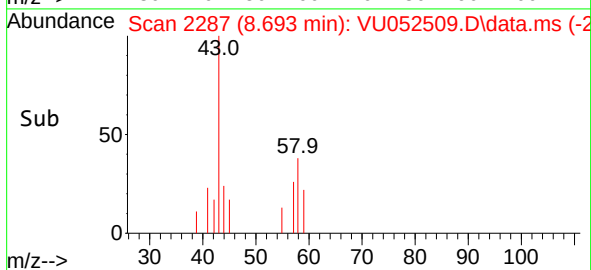
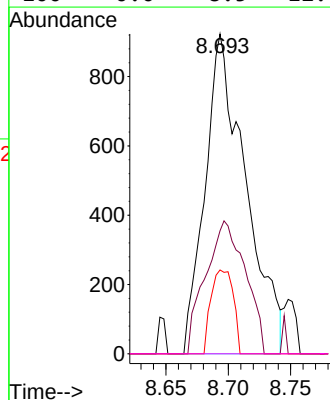
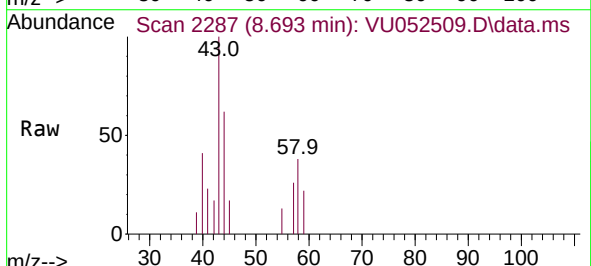
Ion Ratio Lower Upper

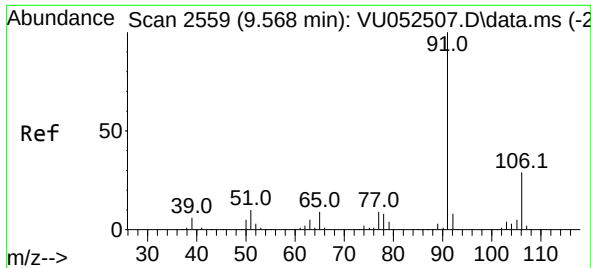
43 100

58 40.9 44.1 66.1#

57 14.4 14.6 21.8#

100 0.0 8.5 12.7#

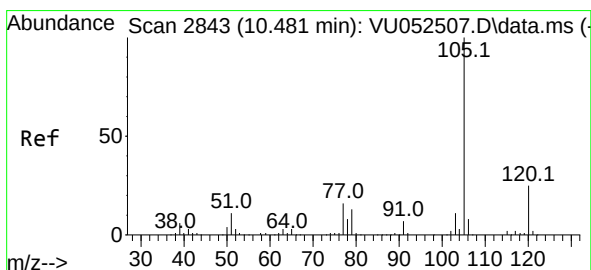
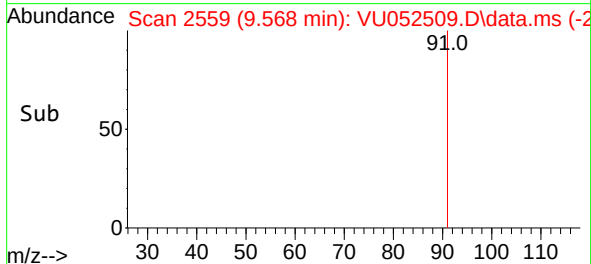
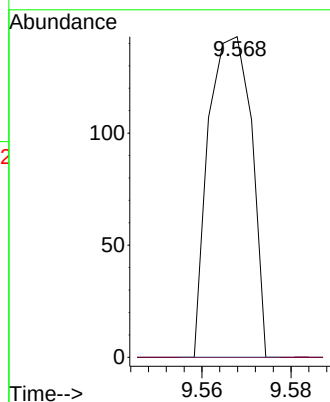
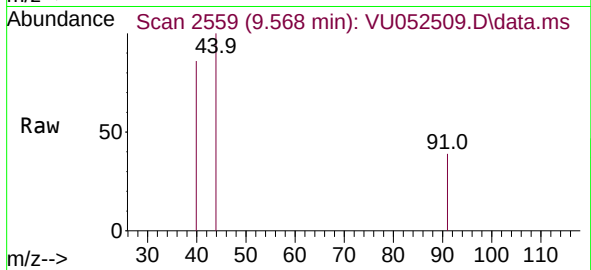




#52
Ethylbenzene
Concen: 0.220 ug/L
RT: 9.568 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

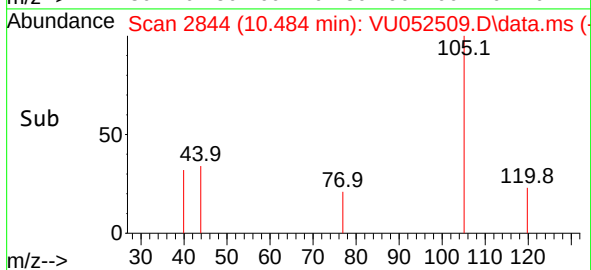
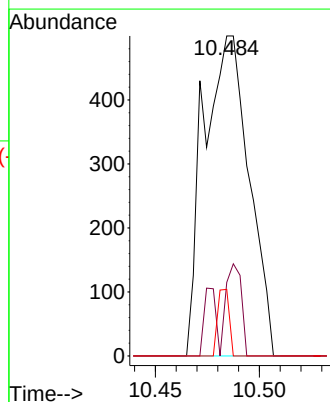
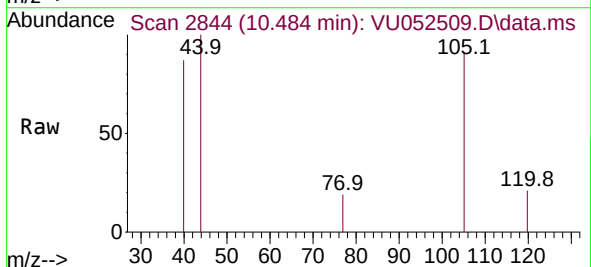
Instrument :
MSVOA_U
ClientSampleId :
COL41

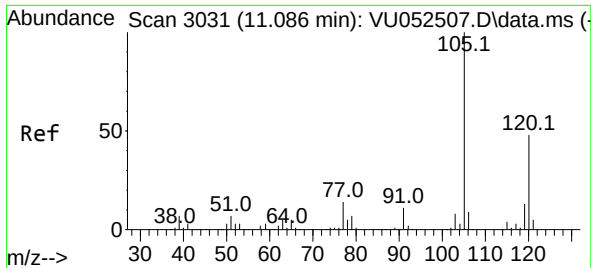
Tgt Ion: 91 Resp: 96
Ion Ratio Lower Upper
91 100
106 0.0 20.9 38.7#



#60
Isopropylbenzene
Concen: 1.068 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. 0.003 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Tgt Ion: 105 Resp: 758
Ion Ratio Lower Upper
105 100
120 9.8 20.6 31.0#
77 5.3 13.8 20.8#





#62

1,3,5-Trimethylbenzene

Concen: 0.357 ug/L

RT: 11.475 min Scan# 3152

Delta R.T. 0.389 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

MSVOA_U

ClientSampleId :

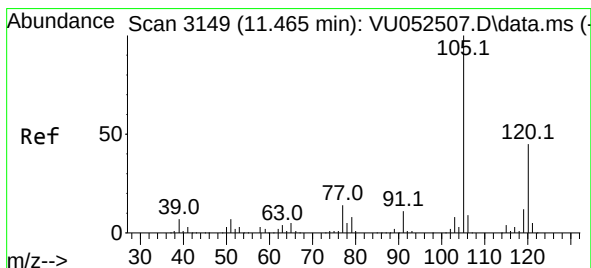
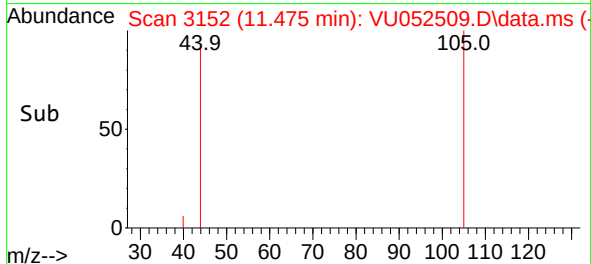
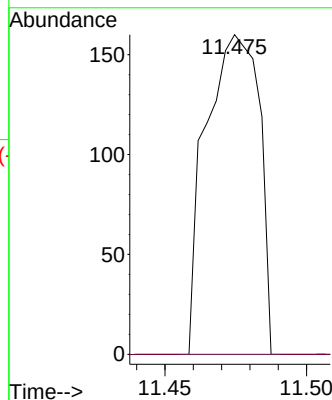
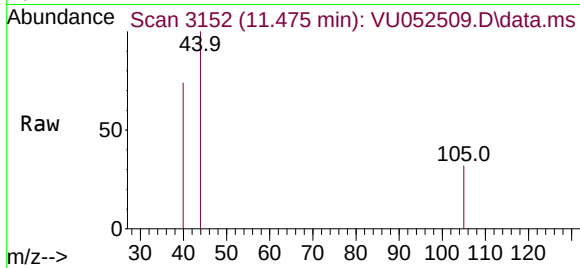
C0L41

Tgt Ion:105 Resp: 209

Ion Ratio Lower Upper

105 100

120 0.0 38.6 57.8#



#63

1,2,4-Trimethylbenzene

Concen: 0.355 ug/L

RT: 11.475 min Scan# 3152

Delta R.T. 0.010 min

Lab File: VU052509.D

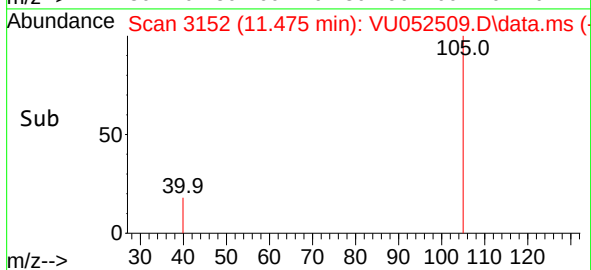
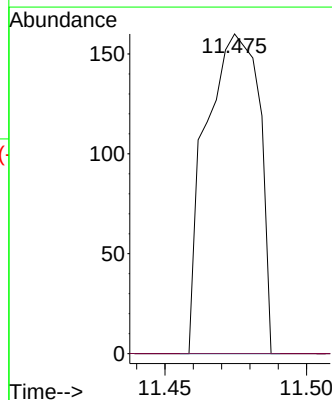
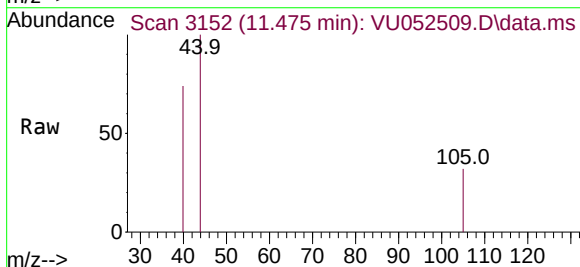
Acq: 22 Dec 2022 22:28

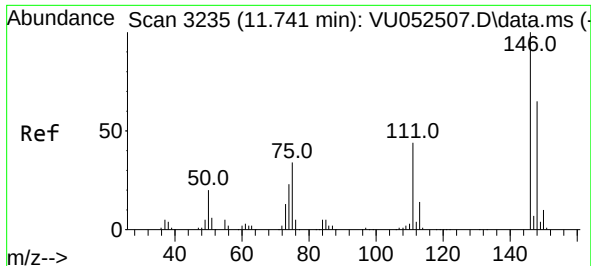
Tgt Ion:105 Resp: 209

Ion Ratio Lower Upper

105 100

120 0.0 35.6 53.4#

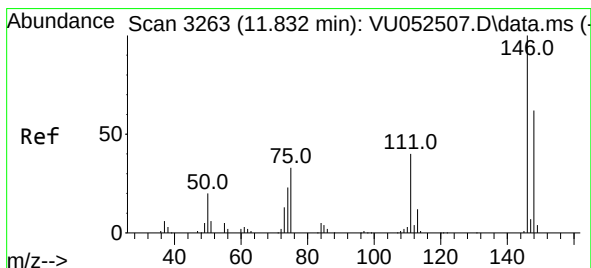
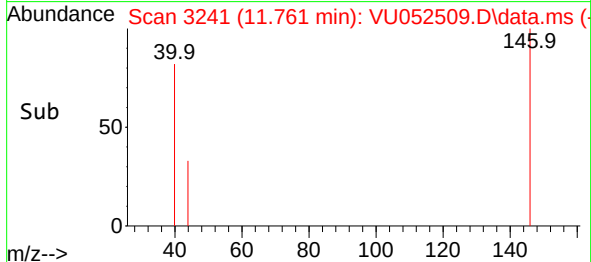
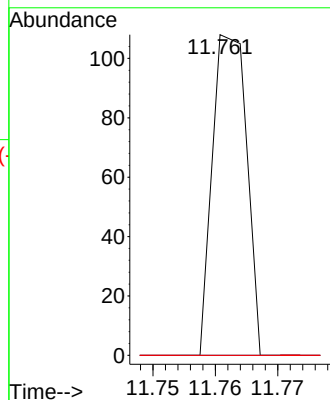
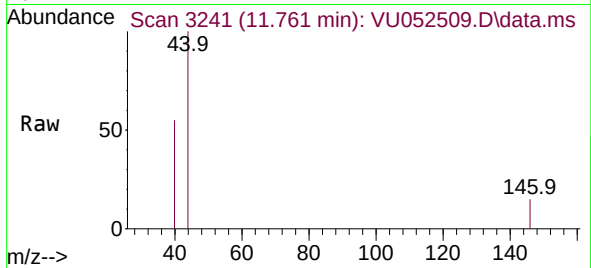




#64
1,3-Dichlorobenzene
Concen: 0.116 ug/L
RT: 11.761 min Scan# 31
Delta R.T. 0.019 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

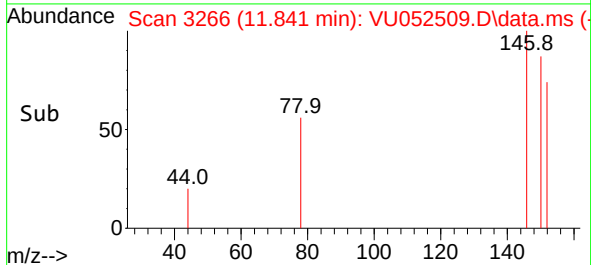
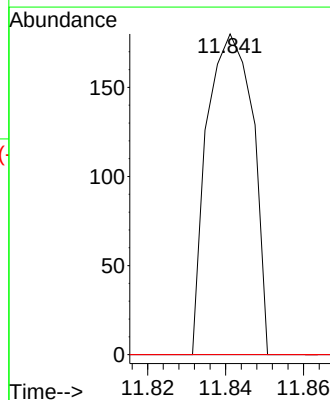
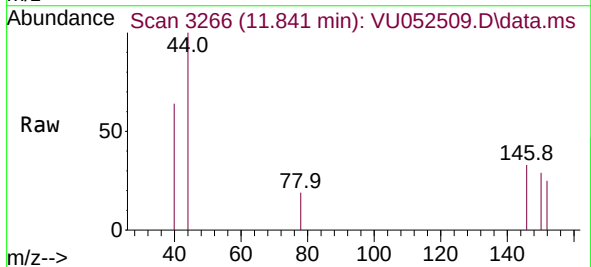
Instrument :
MSVOA_U
ClientSampleId :
COL41

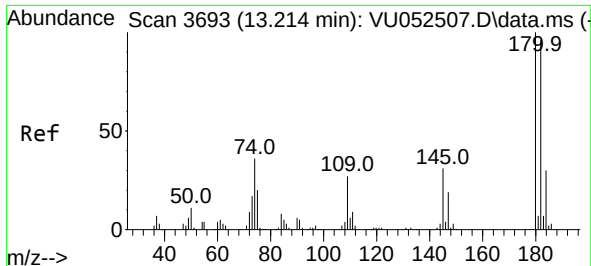
Tgt Ion:146 Resp: 41
Ion Ratio Lower Upper
146 100
111 0.0 29.9 55.5#
148 0.0 43.4 80.6#



#65
1,4-Dichlorobenzene
Concen: 0.404 ug/L
RT: 11.841 min Scan# 3266
Delta R.T. 0.010 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Tgt Ion:146 Resp: 147
Ion Ratio Lower Upper
146 100
111 0.0 27.5 51.1#
148 0.0 44.9 83.3#





#69

1,3,5-Trichlorobenzene

Concen: 0.771 ug/L

RT: 13.227 min Scan# 3697

Delta R.T. 0.013 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

Instrument :

MSVOA_U

ClientSampleId :

COL41

Tgt Ion:180 Resp: 200

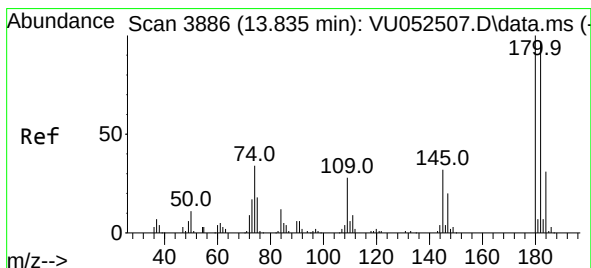
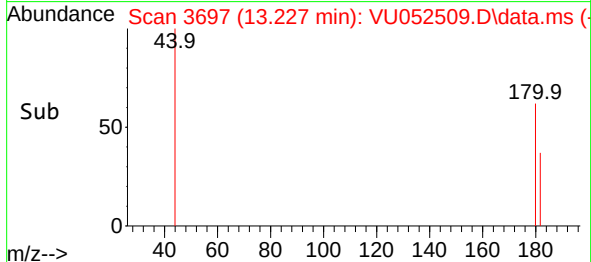
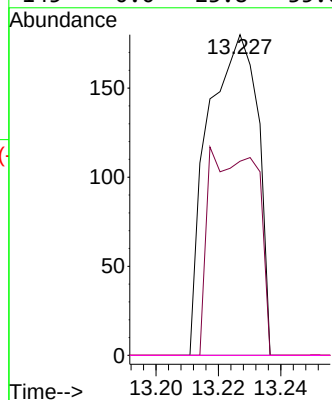
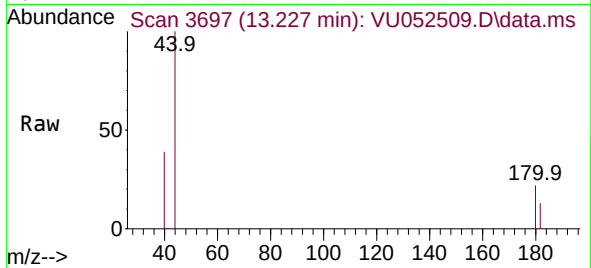
Ion Ratio Lower Upper

180 100

182 31.5 75.8 113.8#

184 0.0 23.4 35.0#

145 0.0 23.8 35.6#



#70

1,2,4-trichlorobenzene

Concen: 1.361 ug/L

RT: 13.847 min Scan# 3890

Delta R.T. 0.013 min

Lab File: VU052509.D

Acq: 22 Dec 2022 22:28

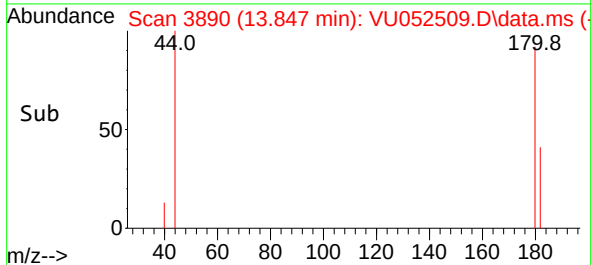
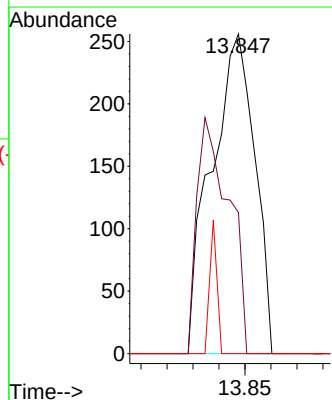
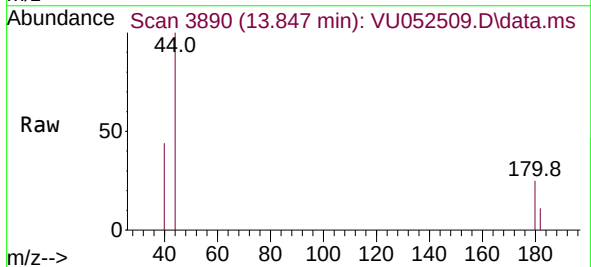
Tgt Ion:180 Resp: 297

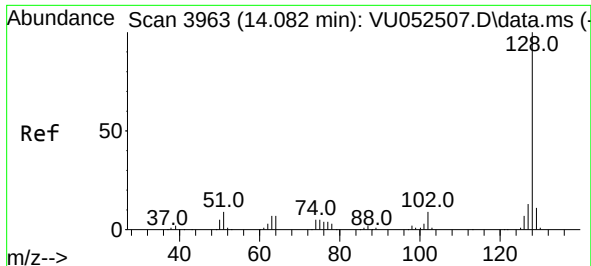
Ion Ratio Lower Upper

180 100

182 54.5 77.7 116.5#

145 7.1 24.0 36.0#

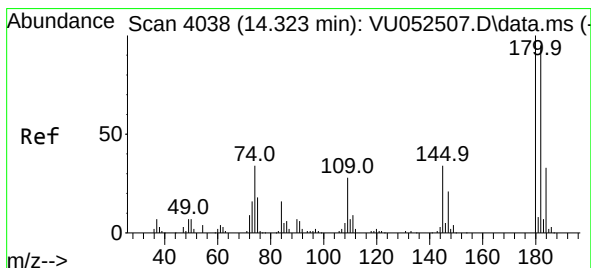
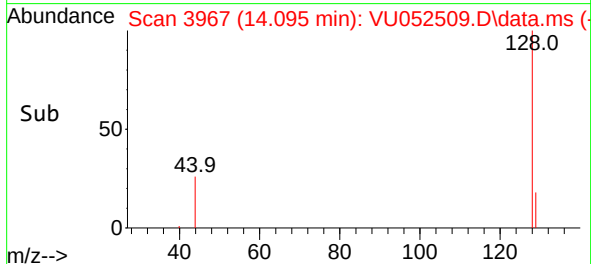
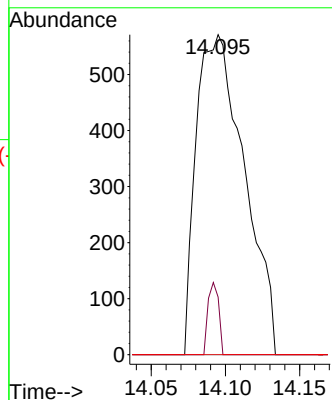
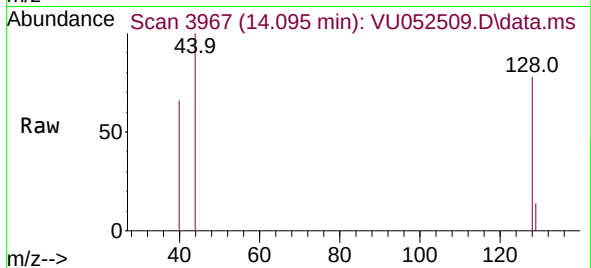




#71
Naphthalene
Concen: 2.906 ug/L
RT: 14.095 min Scan# 3963
Delta R.T. 0.013 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Instrument :
MSVOA_U
ClientSampleId :
COL41

Tgt Ion:128 Resp: 1283
Ion Ratio Lower Upper
128 100
129 5.0 8.7 13.1#
127 0.0 10.6 16.0#



#72
1,2,3-Trichlorobenzene
Concen: 1.175 ug/L
RT: 14.327 min Scan# 4039
Delta R.T. 0.003 min
Lab File: VU052509.D
Acq: 22 Dec 2022 22:28

Tgt Ion:180 Resp: 257
Ion Ratio Lower Upper
180 100
182 79.8 76.3 114.5
145 0.0 25.8 38.8#

