

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052515.D
 Acq On : 23 Dec 2022 00:49
 Operator : JC/MD
 Sample : N6170-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQB6

Quant Time: Dec 23 06:43:39 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	6.247	114	198208	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	188480	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	101917	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	69066	3.439	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.800%
7) Chloroethane-d5	1.912	69	67719	3.910	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.200%
11) 1,1-Dichloroethene-d2	2.568	65	31688	3.667	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.400%
20) 2-Butanone-d5	4.652	46	339073	54.452	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.900%
24) Chloroform-d	5.060	84	139439	4.116	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.400%
26) 1,2-Dichloroethane-d4	5.700	65	82495	4.198	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.000%
32) Benzene-d6	5.726	84	289871	4.486	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.800%
36) 1,2-Dichloropropane-d6	6.687	67	99696	4.482	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.600%
41) Toluene-d8	7.893	98	289189	5.331	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.600%
43) trans-1,3-Dichloroprop...	8.176	79	49292	6.471	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	129.400%
46) 2-Hexanone-d5	8.632	63	264563	63.485	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	126.960%
56) 1,1,2,2-Tetrachloroeth...	10.755	84	94064	4.981	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.600%
66) 1,2-Dichlorobenzene-d4	12.189	152	104884	5.055	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	28324	1.227	ug/L	97
12) 1,1-Dichloroethene	2.581	96	2243	0.151	ug/L #	1
15) Methyl Acetate	3.083	43	1945672	192.392	ug/L #	55
18) trans-1,2-Dichloroethene	3.353	96	200446	13.102	ug/L	98
22) cis-1,2-Dichloroethene	4.665	96	1964148	116.986	ug/L	96
25) Chloroform	5.125	83	36183	1.122	ug/L #	50
30) Cyclohexane	5.385	56	2104484	82.094	ug/L	91
33) Benzene	5.774	78	18970	0.279	ug/L	100
34) Trichloroethene	6.571	95	34313	2.162	ug/L #	18
35) Methylcyclohexane	6.764	83	4984002	208.252	ug/L	97
37) 1,2-Dichloropropane	6.761	63	48345	2.552	ug/L #	45
38) Bromodichloromethane	7.073	83	16993	0.737	ug/L #	55
39) cis-1,3-Dichloropropene	7.565	75	2866	0.119	ug/L #	1
42) Toluene	7.967	91	49116	0.755	ug/L	99
45) 1,1,2-Trichloroethane	8.366	97	446353	33.267	ug/L #	19
47) Tetrachloroethene	8.549	164	6907	0.623	ug/L	94
48) 2-Hexanone	8.687	43	23882	2.289	ug/L #	84
50) 1,2-Dibromoethane	8.941	107	1835	0.150	ug/L #	1
52) Ethylbenzene	9.568	91	542400	8.052	ug/L	99

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

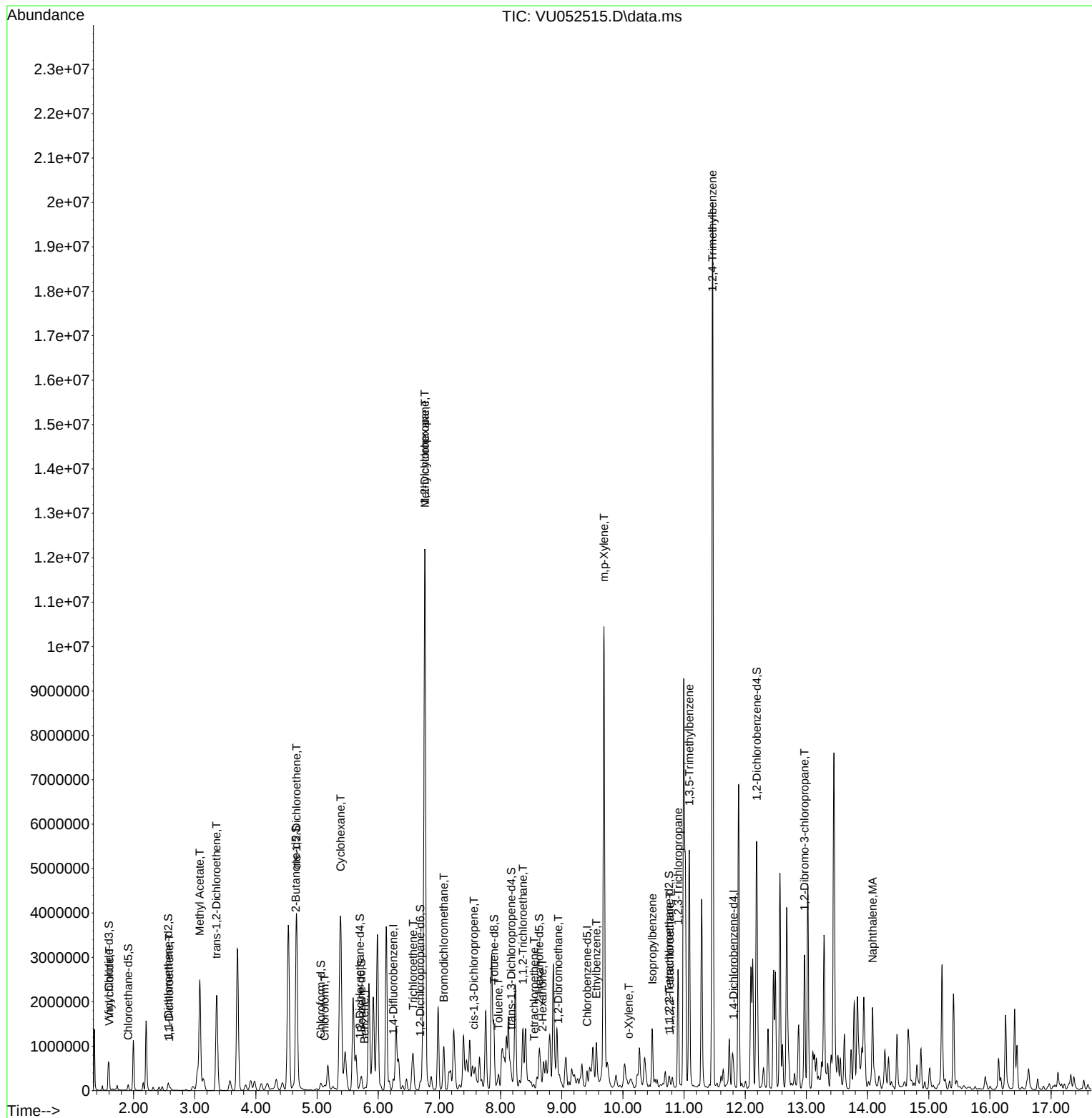
53) m,p-Xylene	9.690	106	2673401	107.628	ug/L	97
54) o-Xylene	10.095	106	21448	0.901	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.767	83	2821	0.152	ug/L #	52
60) Isopropylbenzene	10.481	105	785804	11.896	ug/L	100
61) 1,2,3-Trichloropropane	10.902	75	12818	0.877	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.086	105	2784188	51.105	ug/L	100
63) 1,2,4-Trimethylbenzene	11.465	105	10568666	192.704	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.970	75	12613	3.812	ug/L #	7
71) Naphthalene	14.082	128	1369629	33.333	ug/L	98

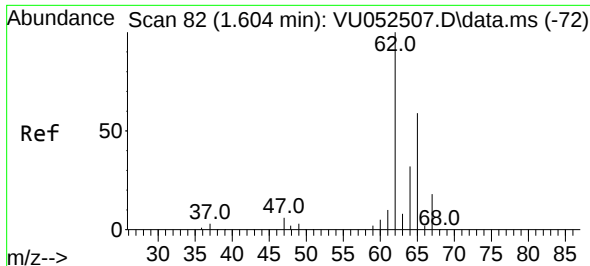
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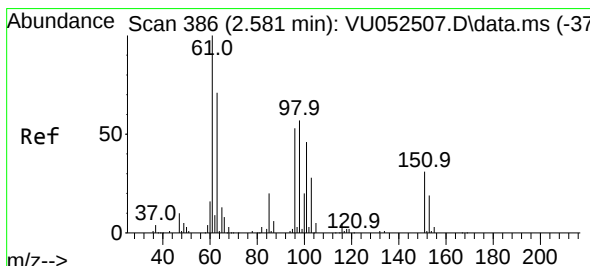
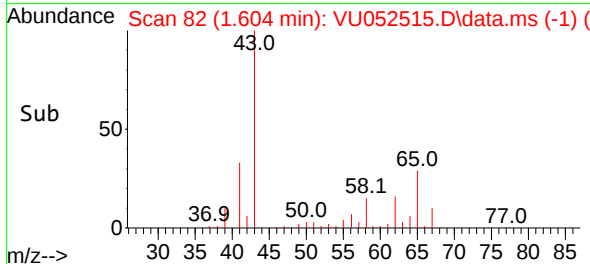
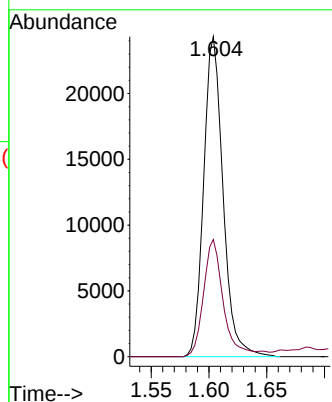
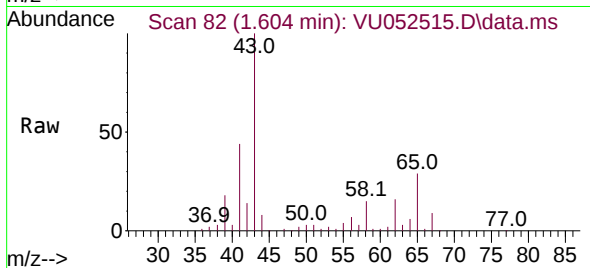




#5
 Vinyl chloride
 Concen: 1.227 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU052515.D
 Acq: 23 Dec 2022 00:49

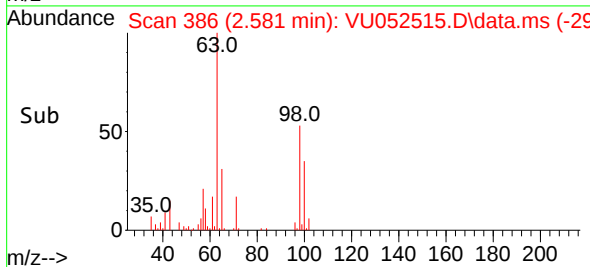
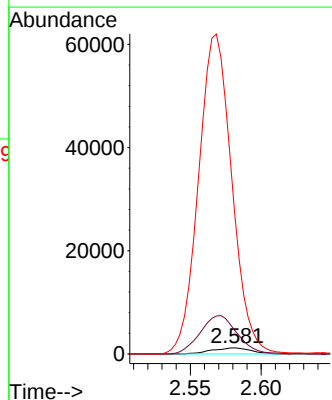
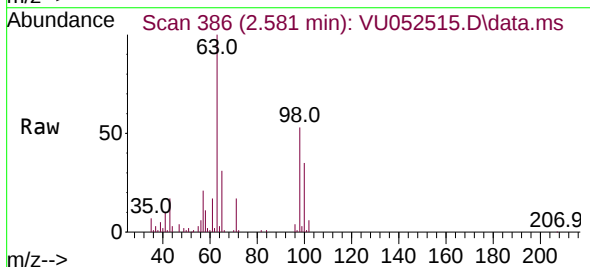
Instrument :
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 ClientSampleId :
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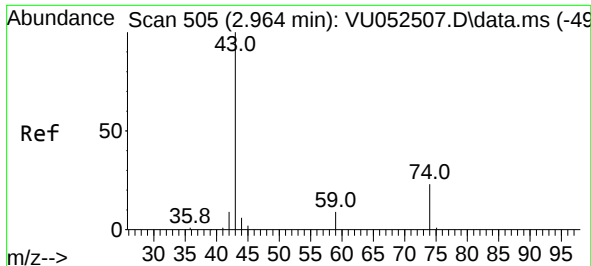
Tgt Ion: 62 Resp: 28324
 Ion Ratio Lower Upper
 62 100
 64 36.6 24.4 45.4



#12
 1,1-Dichloroethene
 Concen: 0.151 ug/L
 RT: 2.581 min Scan# 386
 Delta R.T. 0.000 min
 Lab File: VU052515.D
 Acq: 23 Dec 2022 00:49

Tgt Ion: 96 Resp: 2243
 Ion Ratio Lower Upper
 96 100
 61 391.8 135.4 251.4#
 63 2341.8 95.4 177.2#

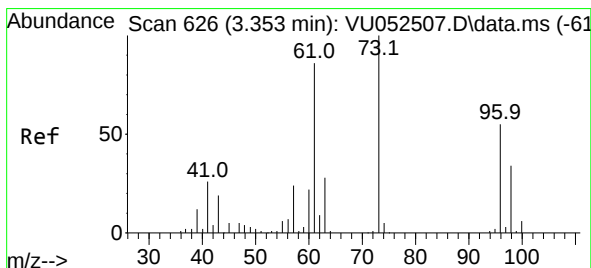
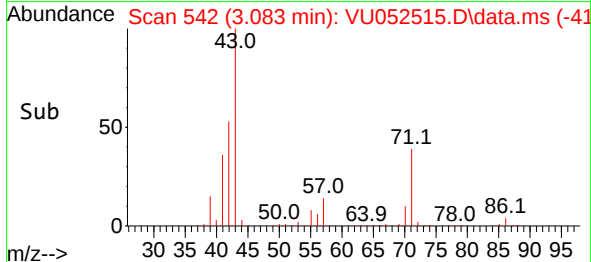
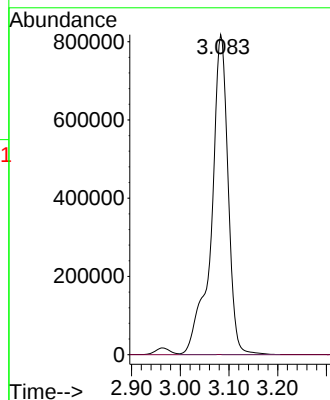
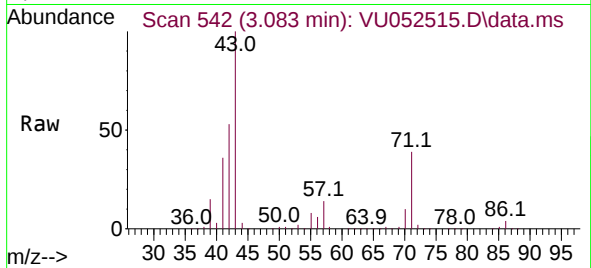




#15
Methyl Acetate
Concen: 192.392 ug/L
RT: 3.083 min Scan# 541
Delta R.T. 0.119 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

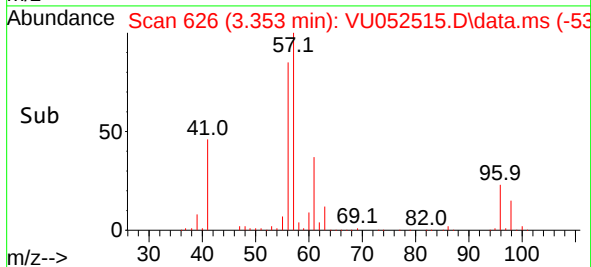
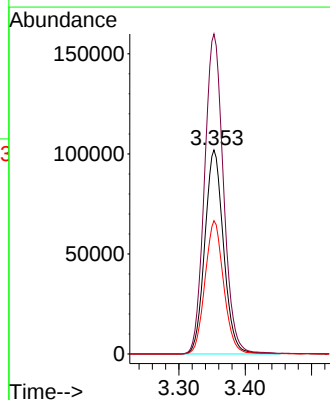
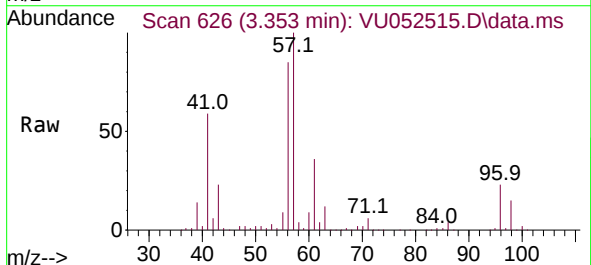
Instrument :
MSVOA_U
ClientSampleId :
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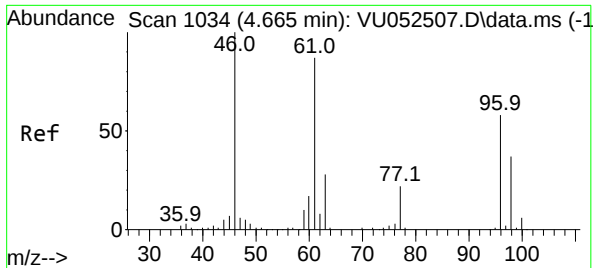
Tgt Ion: 43 Resp: 1945672
Ion Ratio Lower Upper
43 100
74 0.0 16.9 25.3#



#18
trans-1,2-Dichloroethene
Concen: 13.102 ug/L
RT: 3.353 min Scan# 626
Delta R.T. 0.000 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion: 96 Resp: 200446
Ion Ratio Lower Upper
96 100
61 156.9 108.3 201.1
98 65.3 44.0 81.6



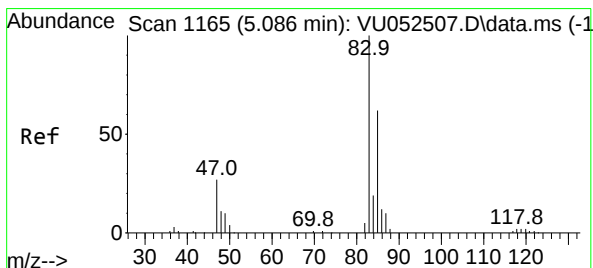
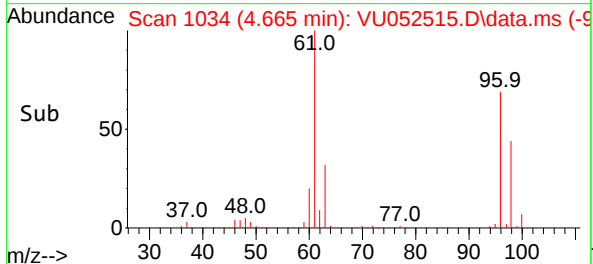
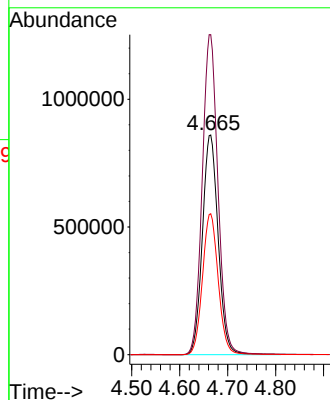
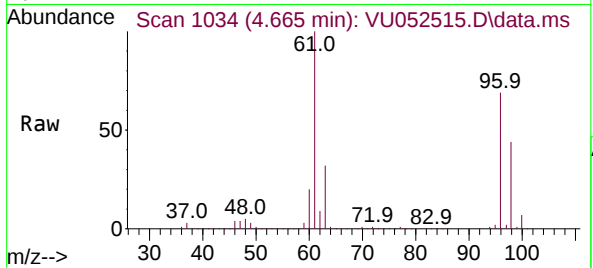


#22
 cis-1,2-Dichloroethene
 Concen: 116.986 ug/L
 RT: 4.665 min Scan# 1177
 Delta R.T. 0.000 min
 Lab File: VU052515.D
 Acq: 23 Dec 2022 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQB6

Tgt Ion: 96 Resp: 1964148

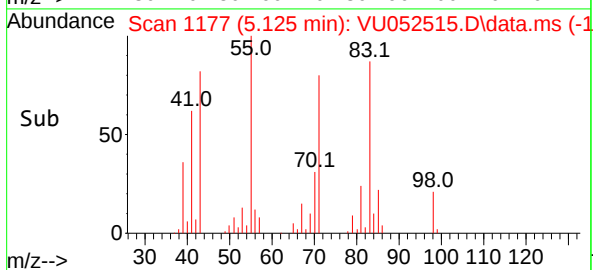
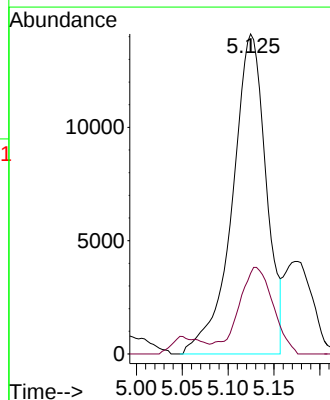
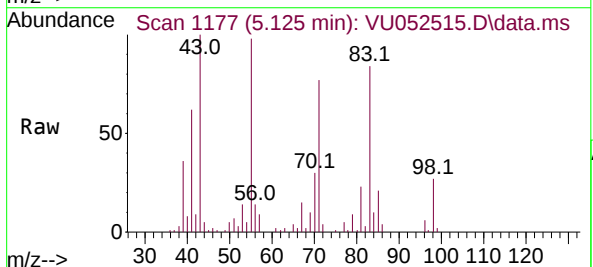
Ion	Ratio	Lower	Upper
96	100		
61	145.6	96.9	180.1
98	64.1	44.7	83.1

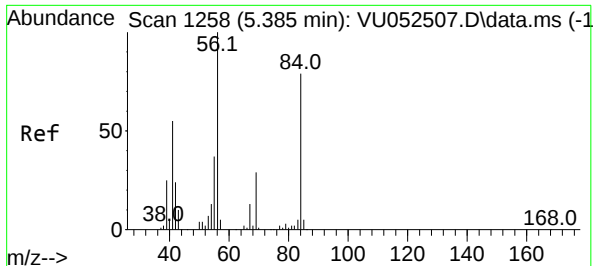


#25
 Chloroform
 Concen: 1.122 ug/L
 RT: 5.125 min Scan# 1177
 Delta R.T. 0.039 min
 Lab File: VU052515.D
 Acq: 23 Dec 2022 00:49

Tgt Ion: 83 Resp: 36183

Ion	Ratio	Lower	Upper
83	100		
85	25.2	44.7	83.1#





#30

Cyclohexane

Concen: 82.094 ug/L

RT: 5.385 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

Instrument :

MSVOA_U

ClientSampleId :

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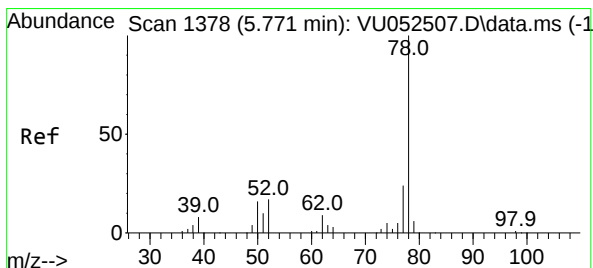
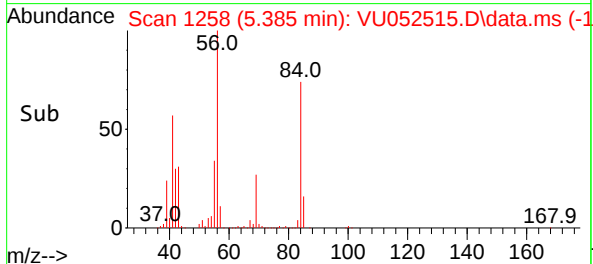
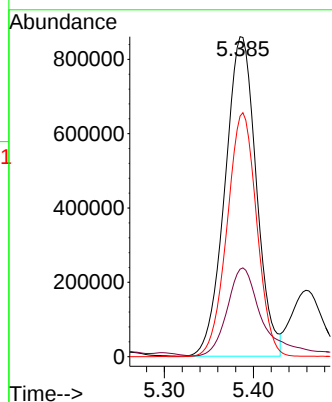
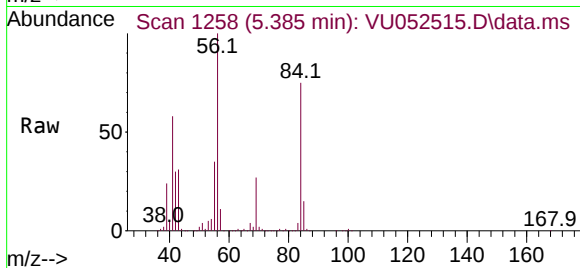
Tgt Ion: 56 Resp: 2104484

Ion Ratio Lower Upper

56 100

69 32.3 23.0 34.6

84 72.2 64.4 96.6



#33

Benzene

Concen: 0.279 ug/L

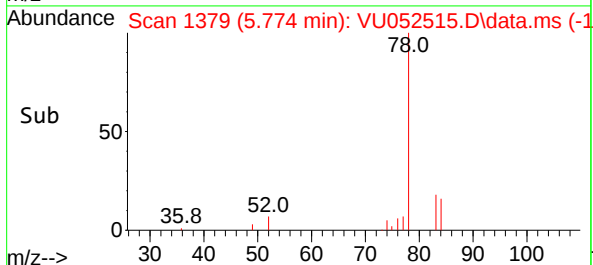
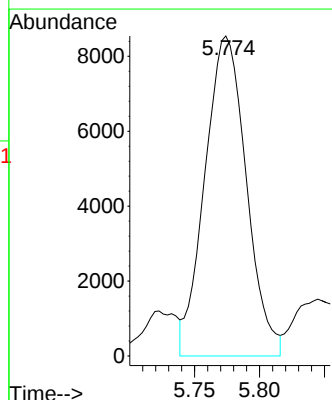
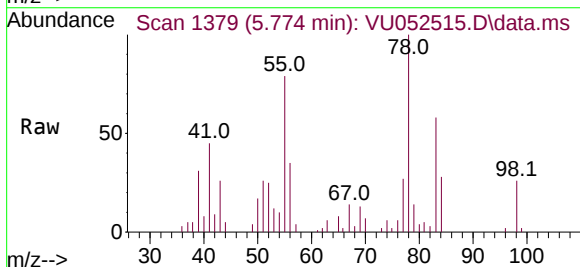
RT: 5.774 min Scan# 1379

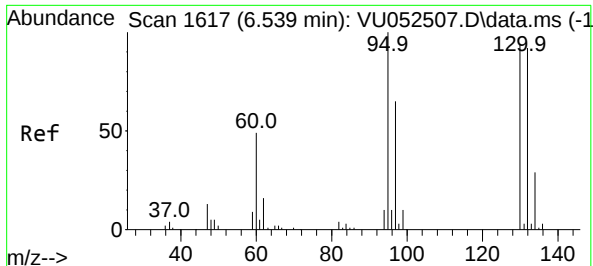
Delta R.T. 0.003 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

Tgt Ion: 78 Resp: 18970

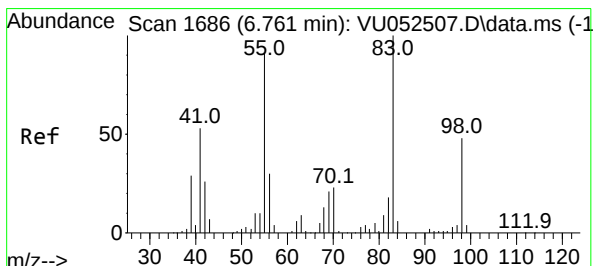
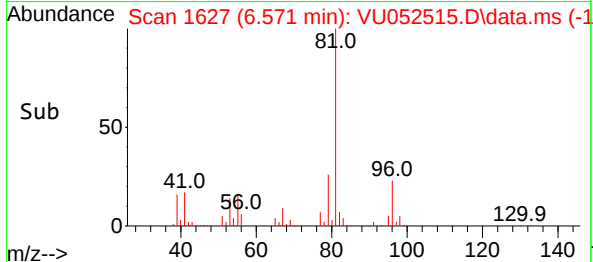
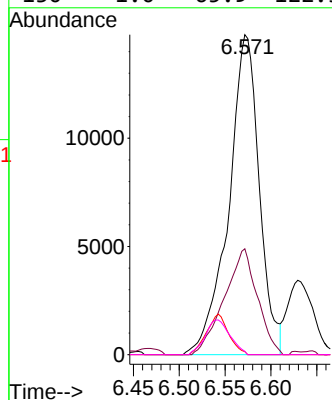
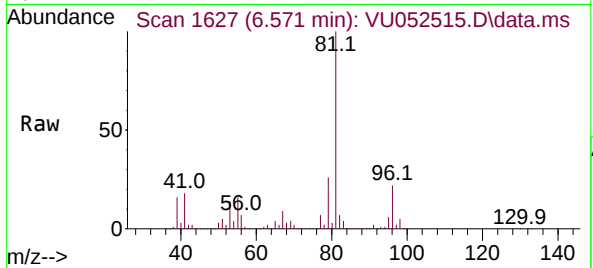




#34
Trichloroethene
Concen: 2.162 ug/L
RT: 6.571 min Scan# 1617
Delta R.T. 0.032 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

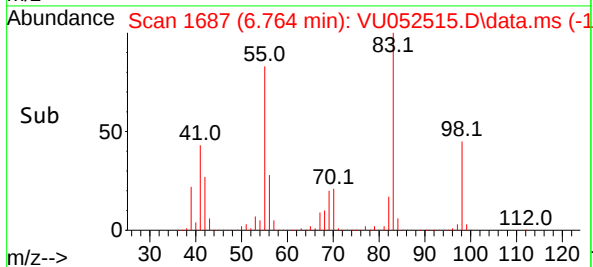
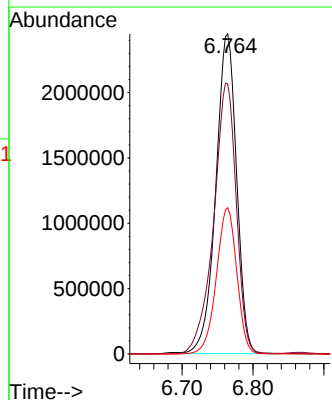
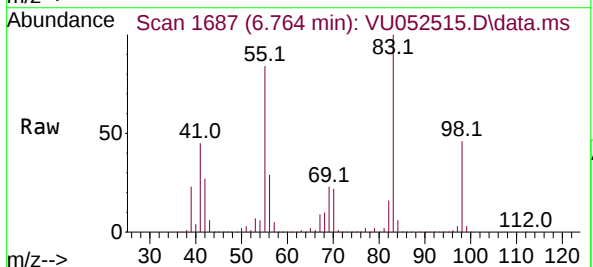
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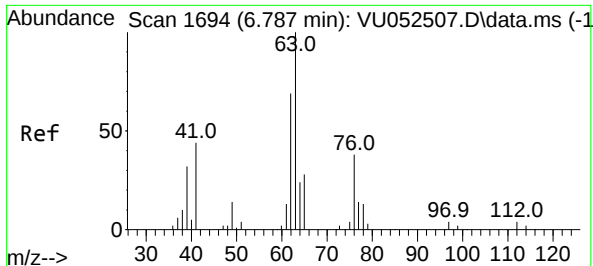
Tgt Ion: 95 Resp: 34313
Ion Ratio Lower Upper
95 100
97 33.1 46.3 86.1#
132 0.9 63.9 118.7#
130 1.0 65.9 122.5#



#35
Methylcyclohexane
Concen: 208.252 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. 0.003 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion: 83 Resp: 4984002
Ion Ratio Lower Upper
83 100
55 92.4 71.4 107.0
98 45.0 36.5 54.7





#37

1,2-Dichloropropane

Concen: 2.552 ug/L

RT: 6.761 min Scan# 1

Delta R.T. -0.026 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

Instrument :

MSVOA_U

ClientSampleId :

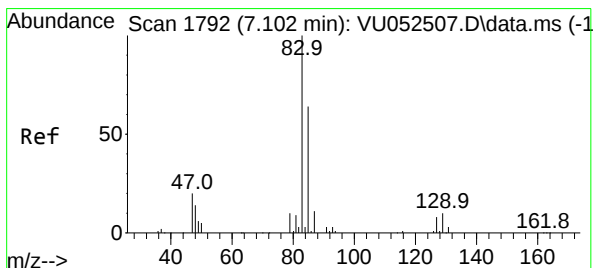
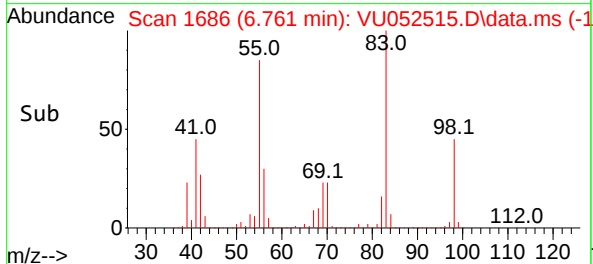
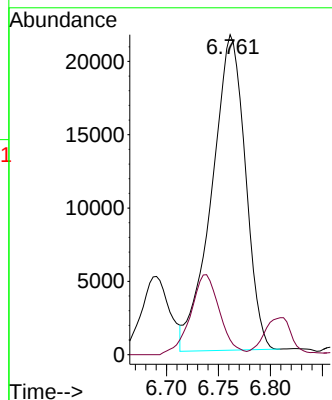
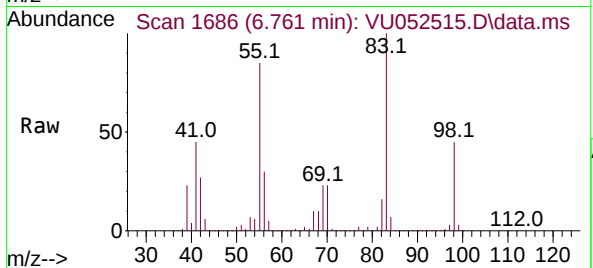
GBQB6

Tgt Ion: 63 Resp: 48345

Ion Ratio Lower Upper

63 100

112 22.0 3.0 4.6#



#38

Bromodichloromethane

Concen: 0.737 ug/L

RT: 7.073 min Scan# 1783

Delta R.T. -0.029 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

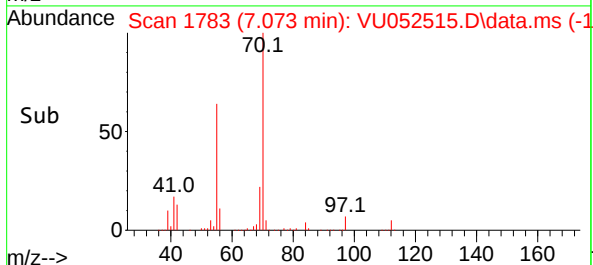
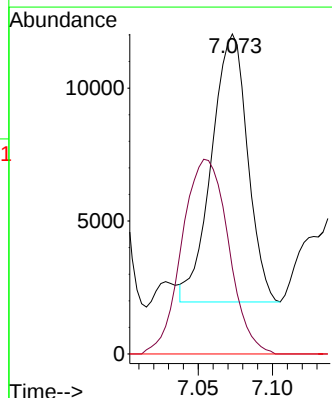
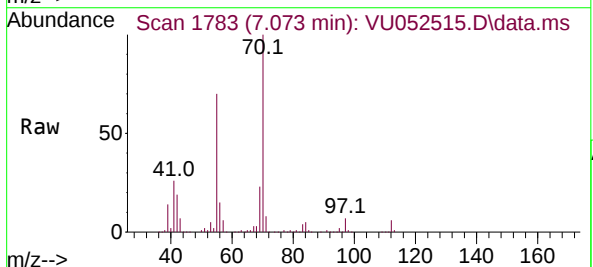
Tgt Ion: 83 Resp: 16993

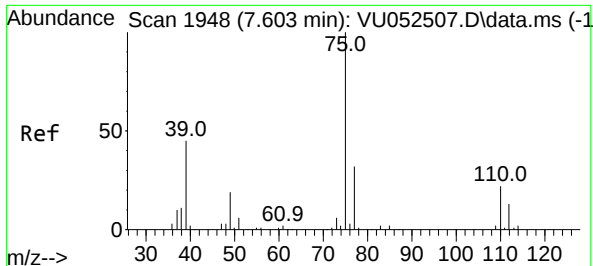
Ion Ratio Lower Upper

83 100

85 26.8 45.2 84.0#

127 0.0 5.8 8.6#





#39

cis-1,3-Dichloropropene

Concen: 0.119 ug/L

RT: 7.565 min Scan# 1948

Delta R.T. -0.038 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

Instrument :

MSVOA_U

ClientSampleId :

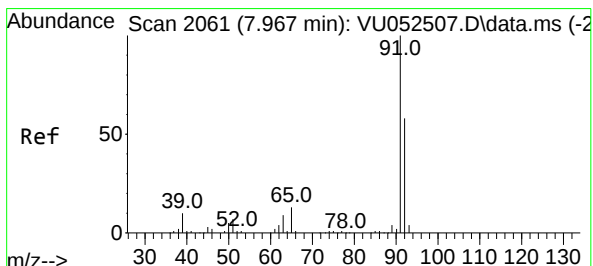
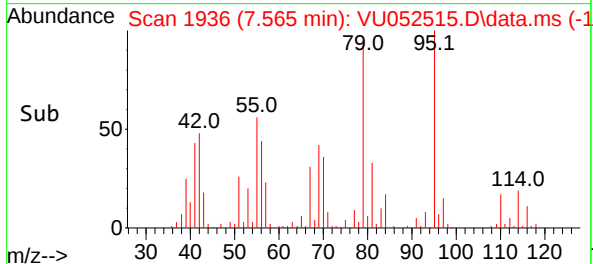
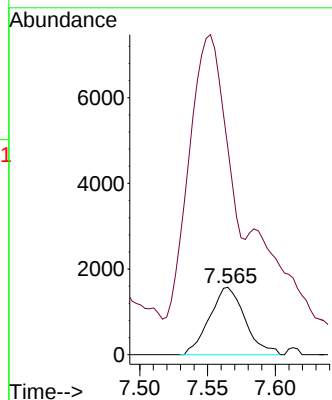
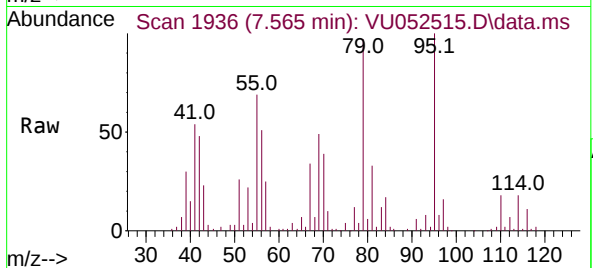
GBQB6

Tgt Ion: 75 Resp: 2866

Ion Ratio Lower Upper

75 100

77 306.7 22.0 41.0#



#42

Toluene

Concen: 0.755 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU052515.D

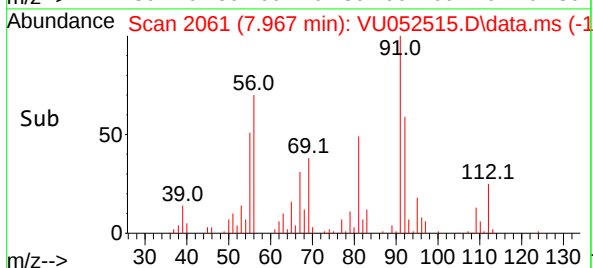
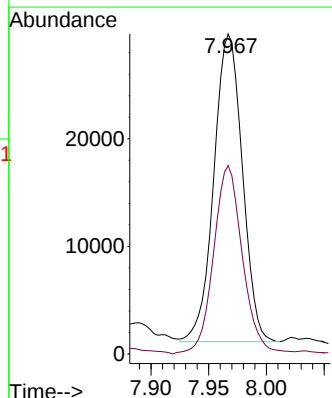
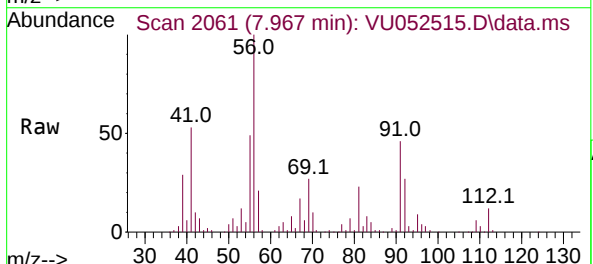
Acq: 23 Dec 2022 00:49

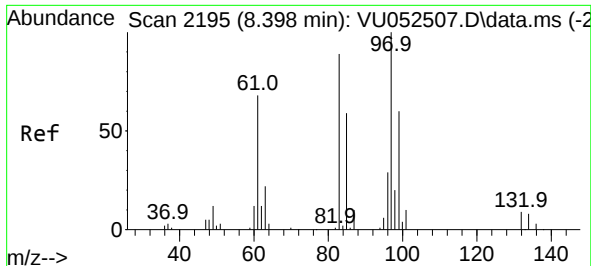
Tgt Ion: 91 Resp: 49116

Ion Ratio Lower Upper

91 100

92 58.9 40.6 75.4

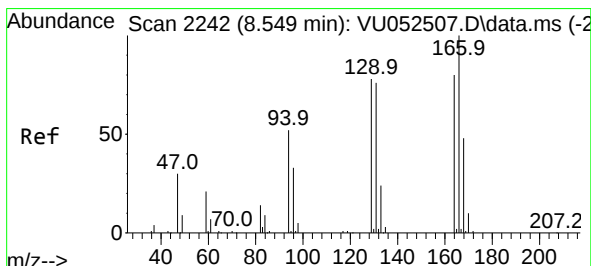
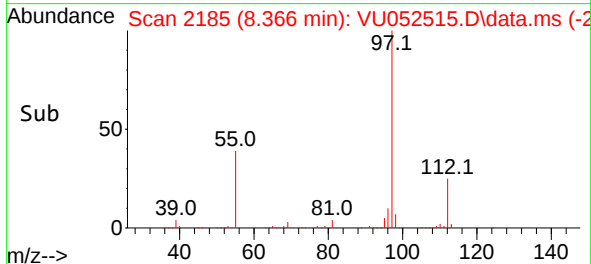
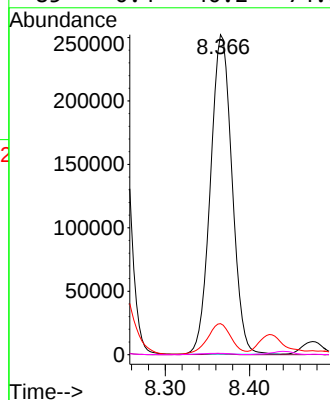
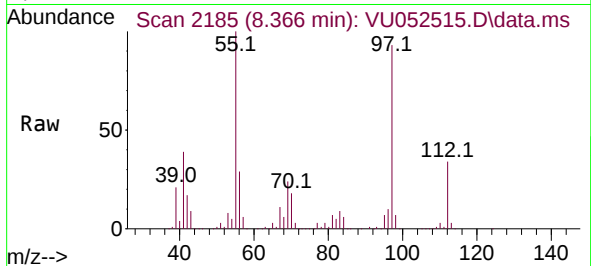




#45
1,1,2-Trichloroethane
Concen: 33.267 ug/L
RT: 8.366 min Scan# 2195
Delta R.T. -0.032 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

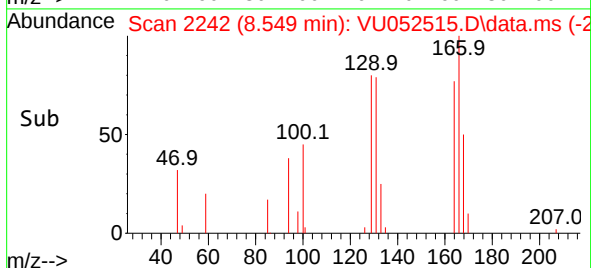
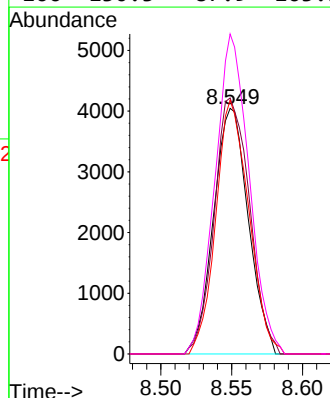
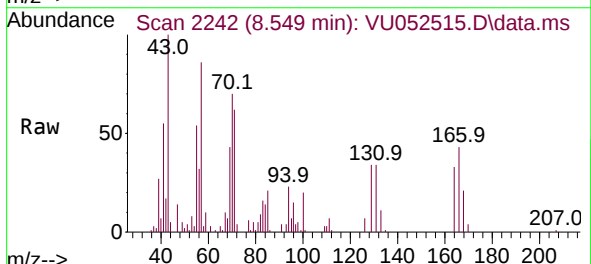
Instrument :
MSVOA_U
ClientSampleId :
GBQB6

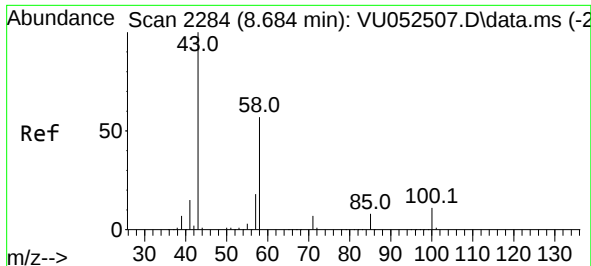
Tgt Ion: 97 Resp: 446353
Ion Ratio Lower Upper
97 100
99 0.3 42.0 78.0#
83 9.7 63.2 117.4#
85 0.4 40.2 74.6#



#47
Tetrachloroethene
Concen: 0.623 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. 0.000 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion: 164 Resp: 6907
Ion Ratio Lower Upper
164 100
129 104.2 68.1 126.5
131 103.4 66.5 123.5
166 130.3 87.9 163.3

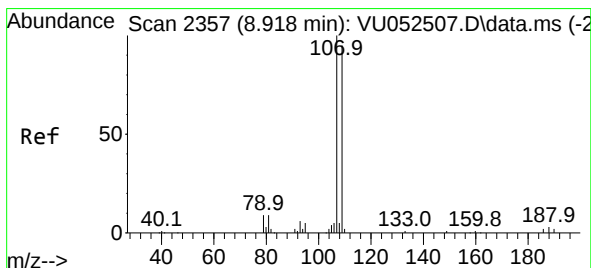
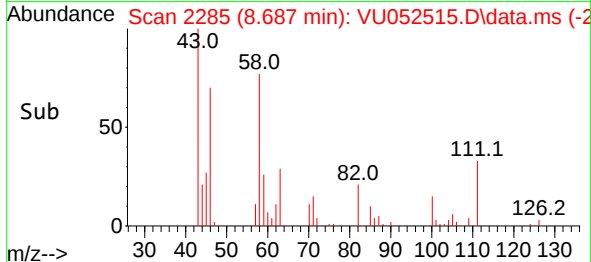
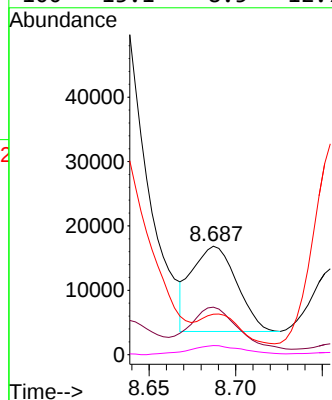
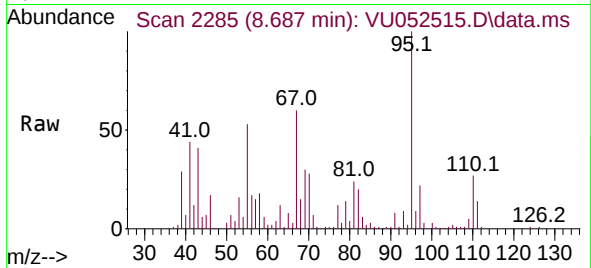




#48
2-Hexanone
Concen: 2.289 ug/L
RT: 8.687 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

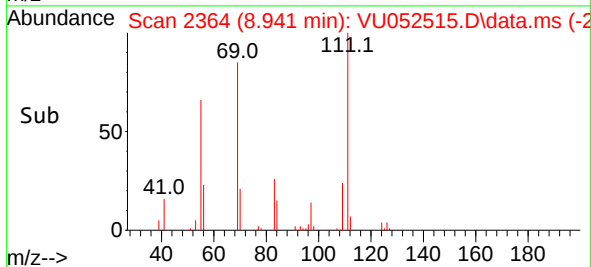
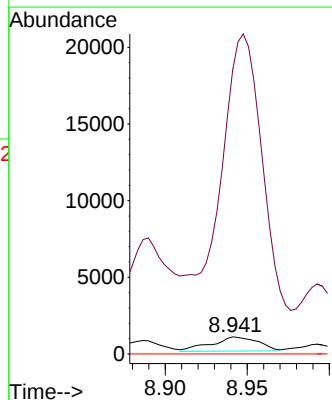
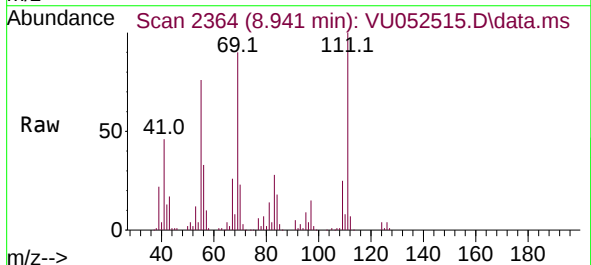
Instrument :
MSVOA_U
ClientSampleId :
GBQB6

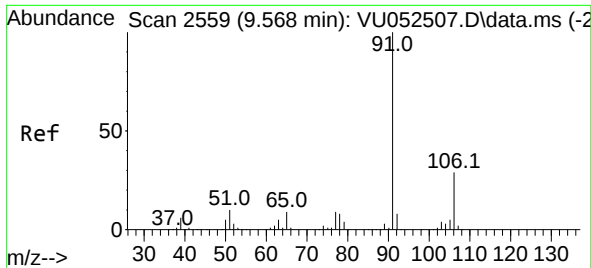
Tgt Ion: 43	Resp: 23882
Ion Ratio	Lower Upper
43	100
58	65.4 44.1 66.1
57	30.2 14.6 21.8#
100	13.1 8.5 12.7#



#50
1,2-Dibromoethane
Concen: 0.150 ug/L
RT: 8.941 min Scan# 2364
Delta R.T. 0.023 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion: 107	Resp: 1835
Ion Ratio	Lower Upper
107	100
109	1656.5 65.8 122.2#
188	0.0 2.3 3.5#

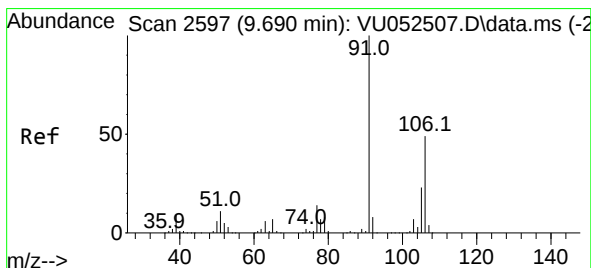
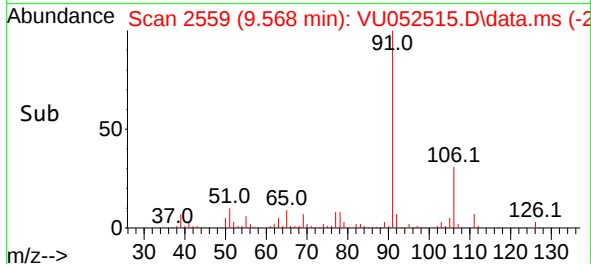
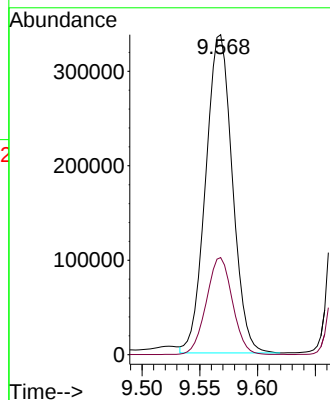
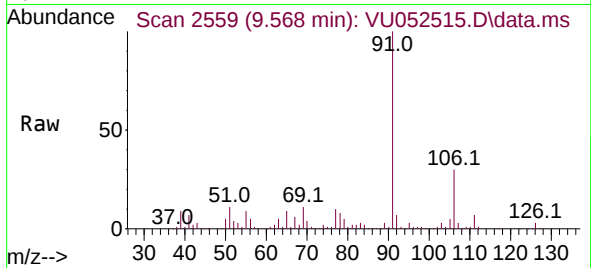




#52
Ethylbenzene
Concen: 8.052 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

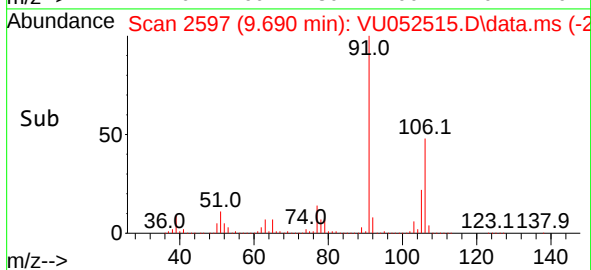
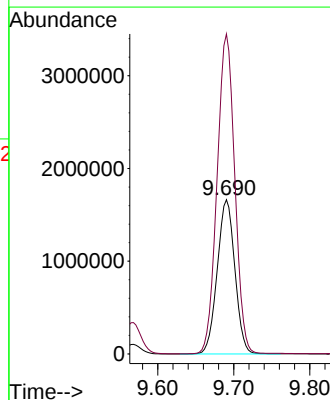
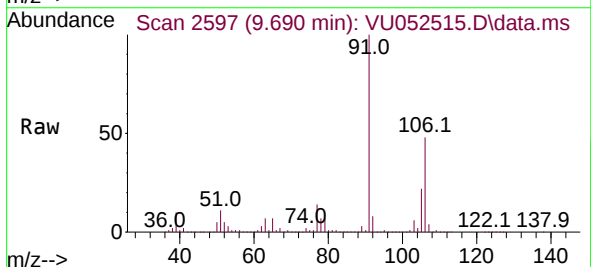
Instrument :
MSVOA_U
ClientSampleId :
GBQB6

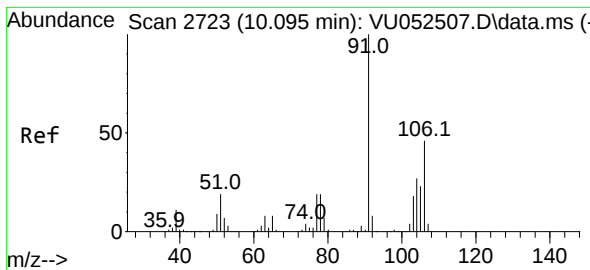
Tgt Ion: 91 Resp: 542400
Ion Ratio Lower Upper
91 100
106 30.4 20.9 38.7



#53
m,p-Xylene
Concen: 107.628 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion: 106 Resp: 2673401
Ion Ratio Lower Upper
106 100
91 207.5 148.2 275.2

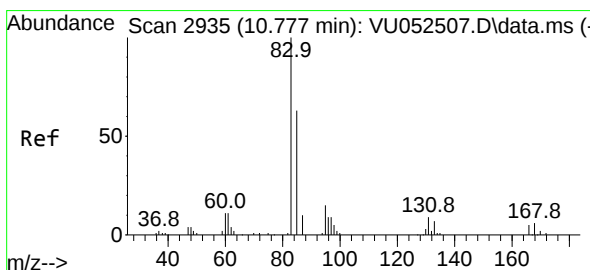
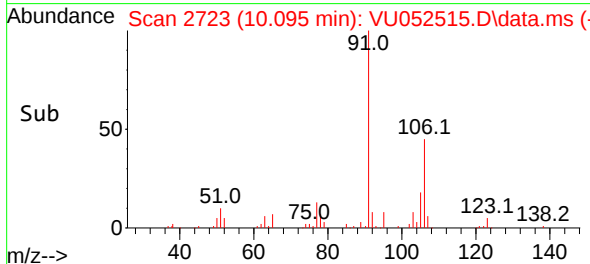
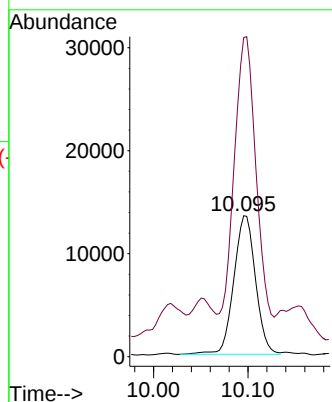
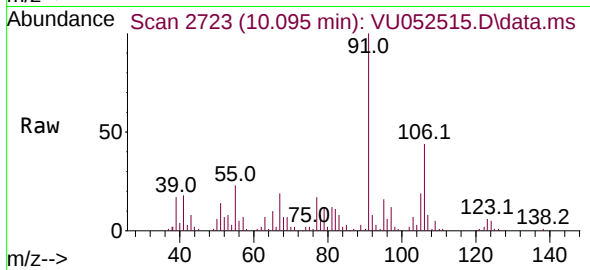




#54
o-Xylene
Concen: 0.901 ug/L
RT: 10.095 min Scan# 21448
Delta R.T. 0.000 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

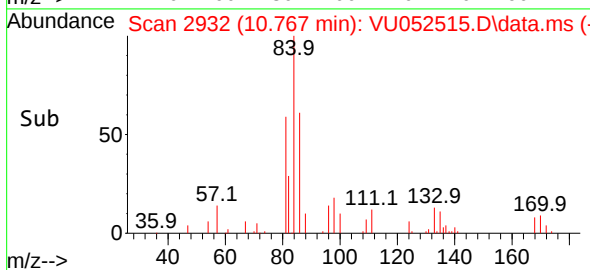
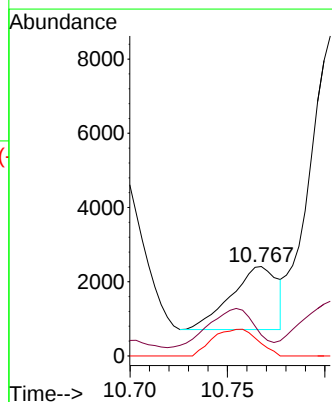
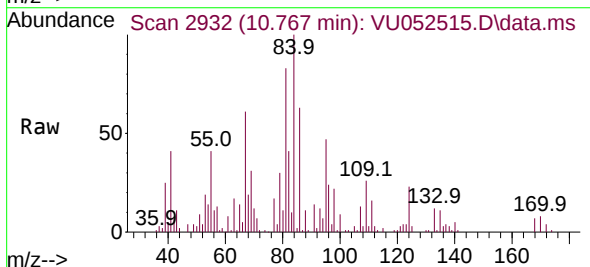
Instrument :
MSVOA_U
ClientSampleId :
GBQB6

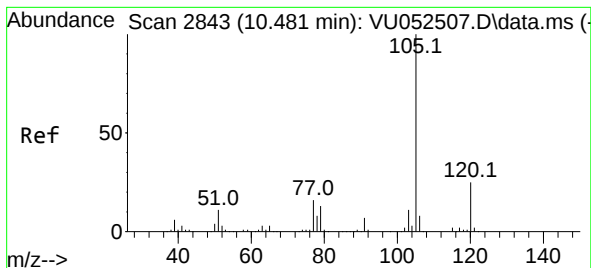
Tgt Ion:106 Resp: 21448
Ion Ratio Lower Upper
106 100
91 226.4 153.2 284.4



#57
1,1,2,2-Tetrachloroethane
Concen: 0.152 ug/L
RT: 10.767 min Scan# 2932
Delta R.T. -0.010 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion: 83 Resp: 2821
Ion Ratio Lower Upper
83 100
85 23.5 44.7 83.1#
131 14.0 6.0 9.0#





#60

Isopropylbenzene

Concen: 11.896 ug/L

RT: 10.481 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

Instrument :

MSVOA_U

ClientSampleId :

GBQB6

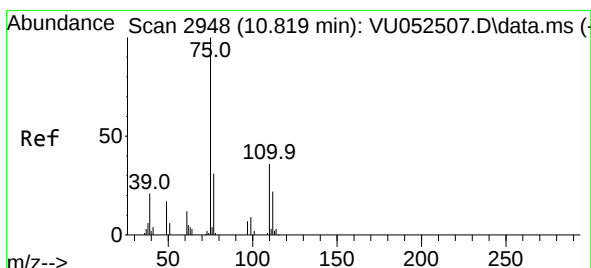
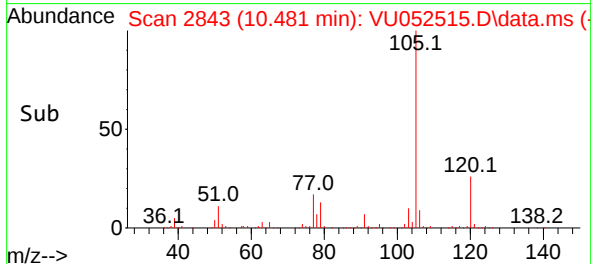
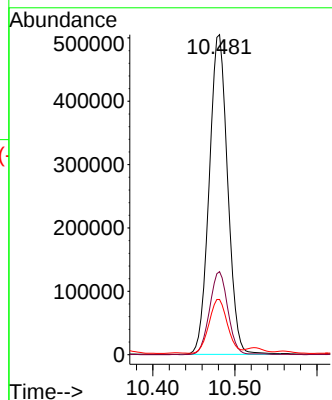
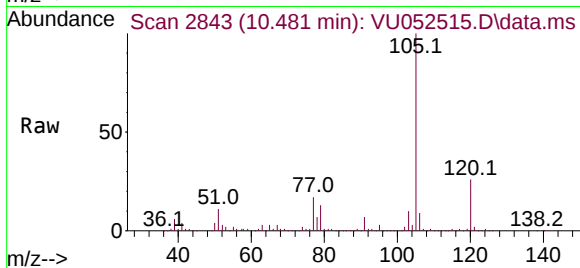
Tgt Ion:105 Resp: 785804

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

77 17.0 13.8 20.8



#61

1,2,3-Trichloropropane

Concen: 0.877 ug/L

RT: 10.902 min Scan# 2974

Delta R.T. 0.084 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

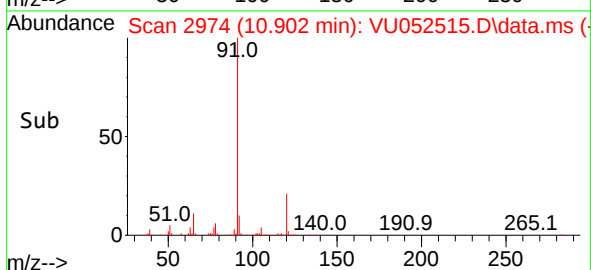
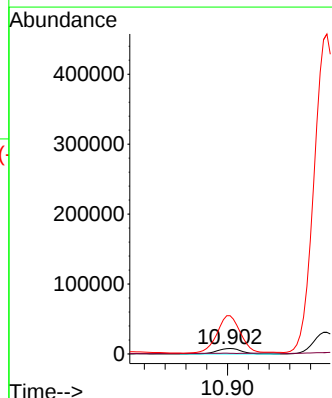
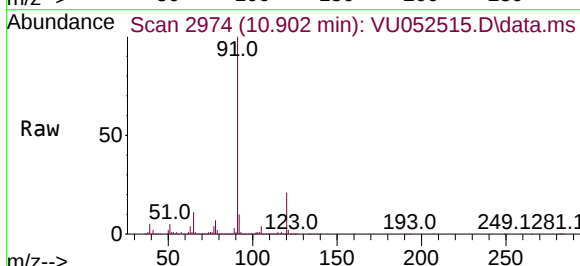
Tgt Ion: 75 Resp: 12818

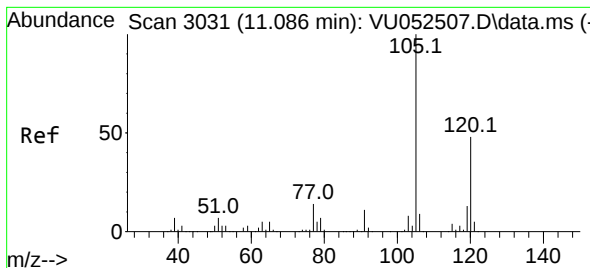
Ion Ratio Lower Upper

75 100

110 0.0 27.9 41.9#

77 652.2 25.9 38.9#





#62

1,3,5-Trimethylbenzene

Concen: 51.105 ug/L

RT: 11.086 min Scan# 3031

Delta R.T. 0.000 min

Lab File: VU052515.D

Acq: 23 Dec 2022 00:49

Instrument :

MSVOA_U

ClientSampleId :

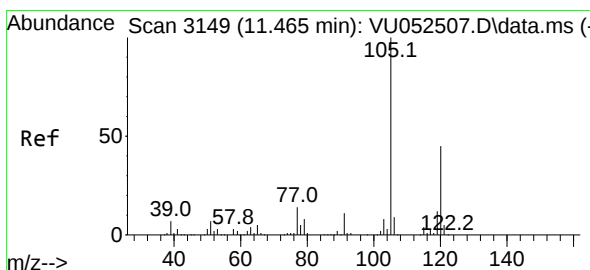
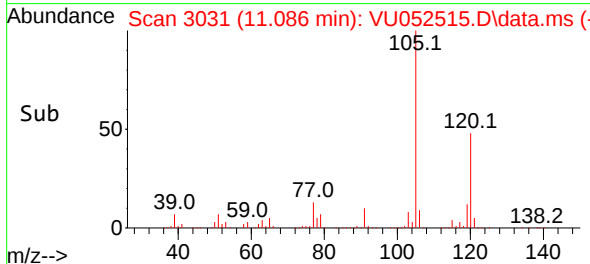
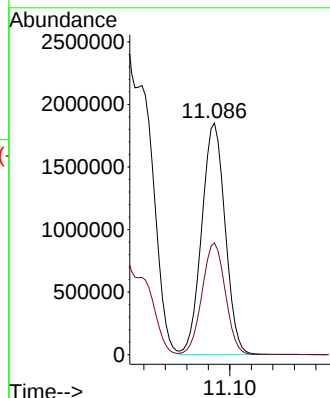
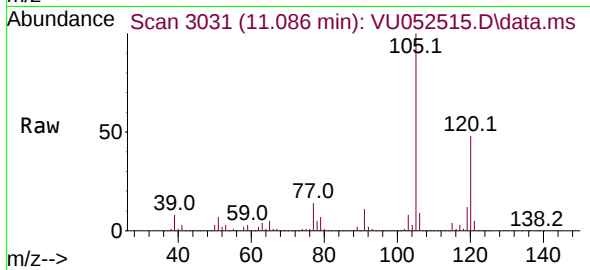
GBQB6

Tgt Ion:105 Resp: 2784188

Ion Ratio Lower Upper

105 100

120 48.2 38.6 57.8



#63

1,2,4-Trimethylbenzene

Concen: 192.704 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VU052515.D

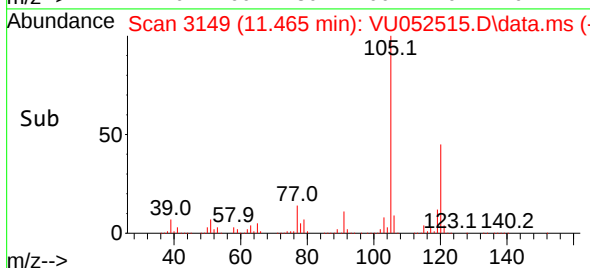
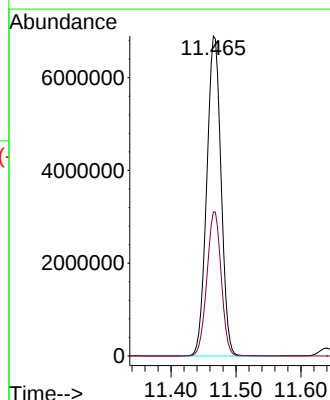
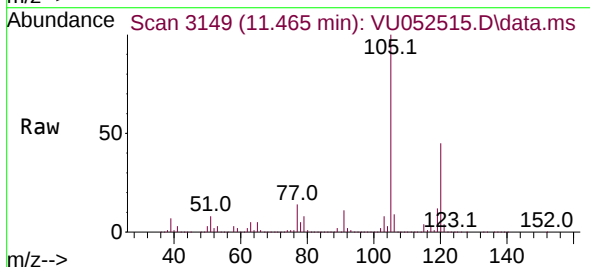
Acq: 23 Dec 2022 00:49

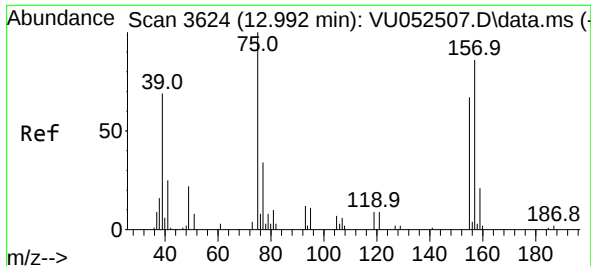
Tgt Ion:105 Resp:10568666

Ion Ratio Lower Upper

105 100

120 45.1 35.6 53.4

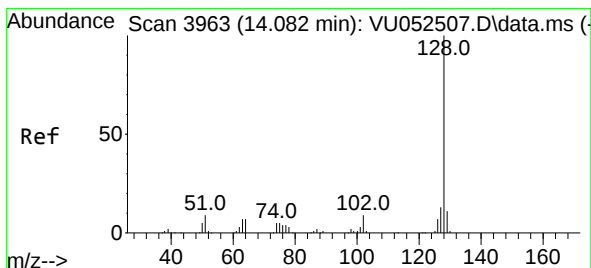
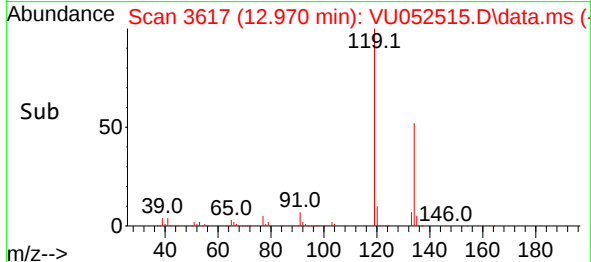
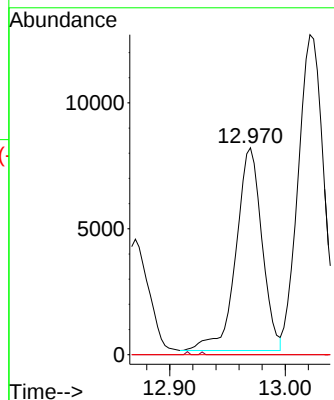
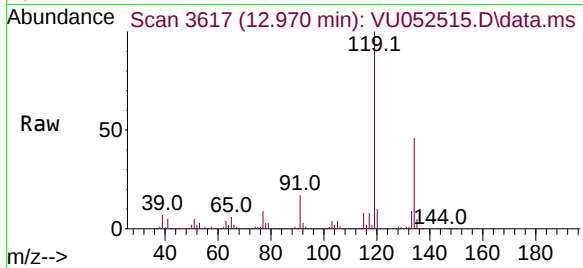




#68
1,2-Dibromo-3-chloropropane
Concen: 3.812 ug/L
RT: 12.970 min Scan# 3617
Delta R.T. -0.022 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Instrument :
MSVOA_U
ClientSampleId :
GBQB6

Tgt Ion: 75 Resp: 12613
Ion Ratio Lower Upper
75 100
155 0.0 62.2 93.2#
157 0.0 73.0 109.4#



#71
Naphthalene
Concen: 33.333 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. 0.000 min
Lab File: VU052515.D
Acq: 23 Dec 2022 00:49

Tgt Ion:128 Resp: 1369629
Ion Ratio Lower Upper
128 100
129 12.9 8.7 13.1
127 13.4 10.6 16.0

