

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122722\
 Data File : VU052576.D
 Acq On : 27 Dec 2022 19:46
 Operator : JC/MD
 Sample : N6169-15
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA6

Quant Time: Dec 28 01:25:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 28 01:18:16 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	179530	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	168392	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	88591	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	55969	3.077	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	61.600%
7) Chloroethane-d5	1.916	69	57182	3.646	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	73.000%
11) 1,1-Dichloroethene-d2	2.565	65	25985	3.320	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.400%
20) 2-Butanone-d5	4.629	46	324373	57.510	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.020%
24) Chloroform-d	5.060	84	128826	4.198	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.000%
26) 1,2-Dichloroethane-d4	5.697	65	77607	4.360	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.200%
32) Benzene-d6	5.722	84	261192	4.524	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.400%
36) 1,2-Dichloropropane-d6	6.687	67	93559	4.708	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.200%
41) Toluene-d8	7.893	98	229961	4.745	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.800%
43) trans-1,3-Dichloroprop...	8.176	79	33609	4.939	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.800%
46) 2-Hexanone-d5	8.629	63	240789	64.673	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.340%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	88371	5.237	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.800%
66) 1,2-Dichlorobenzene-d4	12.188	152	88452	4.904	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	19081	0.913	ug/L	99
12) 1,1-Dichloroethene	2.578	96	4259	0.317	ug/L #	1
14) Carbon disulfide	2.793	76	19968	0.461	ug/L	97
15) Methyl Acetate	2.961	43	5070	0.553	ug/L #	55
16) Methylene chloride	3.051	84	11483	0.605	ug/L	97
18) trans-1,2-Dichloroethene	3.353	96	54852	3.958	ug/L	100
22) cis-1,2-Dichloroethene	4.661	96	482222	31.710	ug/L	95
25) Chloroform	5.079	83	19384	0.664	ug/L	99
30) Cyclohexane	5.385	56	141647	6.185	ug/L #	84
33) Benzene	5.771	78	17149	0.283	ug/L	100
34) Trichloroethene	6.539	95	705454	49.752	ug/L	99
35) Methylcyclohexane	6.758	83	368036	17.213	ug/L	95
37) 1,2-Dichloropropane	6.755	63	4358	0.257	ug/L #	26
40) 4-Methyl-2-pentanone	7.851	43	22005	1.779	ug/L #	50
42) Toluene	7.964	91	13600	0.234	ug/L	93
45) 1,1,2-Trichloroethane	8.365	97	61674	5.145	ug/L #	18
47) Tetrachloroethene	8.552	164	1925747	194.566	ug/L	98
48) 2-Hexanone	8.681	43	6765	0.726	ug/L #	79
49) Dibromochloromethane	8.549	129	1924391	151.606	ug/L #	11

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

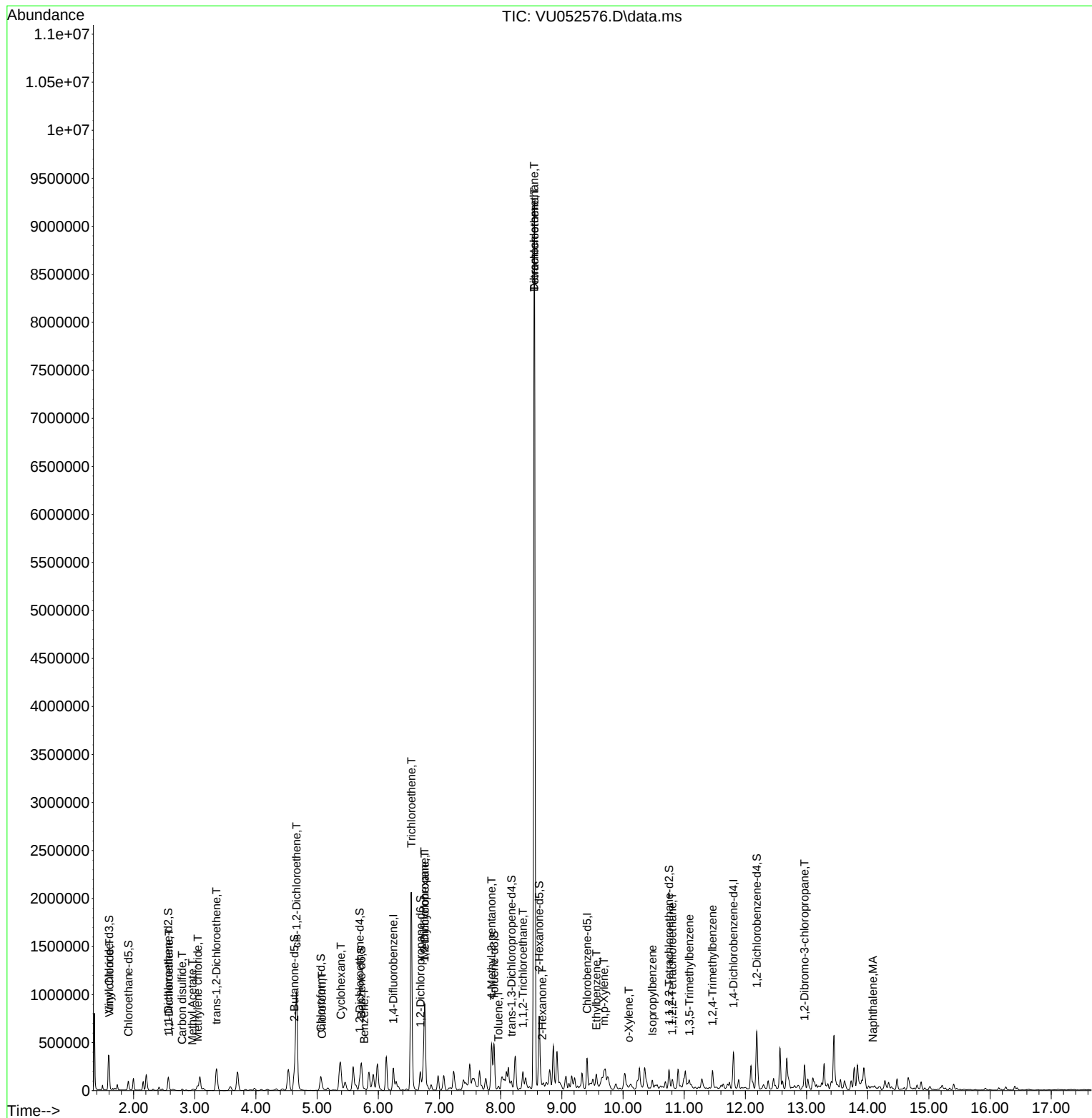
52) Ethylbenzene	9.565	91	60388	1.003	ug/L	97
53) m,p-Xylene	9.690	106	28466	1.283	ug/L	95
54) o-Xylene	10.095	106	4283	0.201	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.803	83	10052	0.607	ug/L #	40
60) Isopropylbenzene	10.478	105	43327	0.755	ug/L	99
62) 1,3,5-Trimethylbenzene	11.082	105	40480	0.855	ug/L	100
63) 1,2,4-Trimethylbenzene	11.462	105	91799	1.926	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.967	75	1191	0.414	ug/L #	7
71) Naphthalene	14.082	128	26825	0.751	ug/L #	86

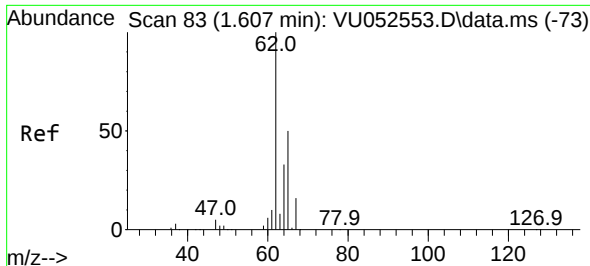
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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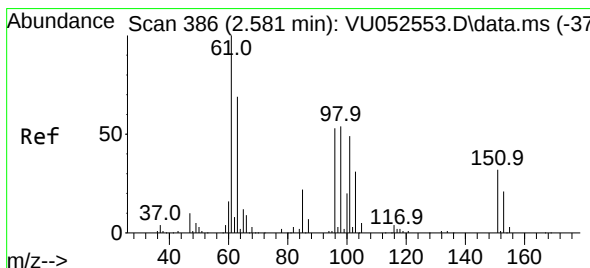
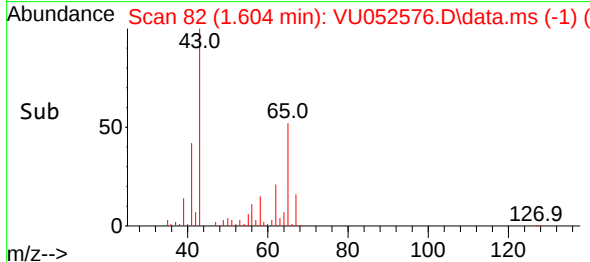
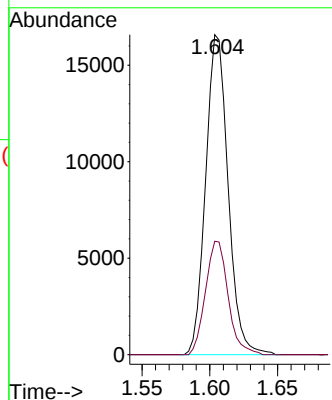
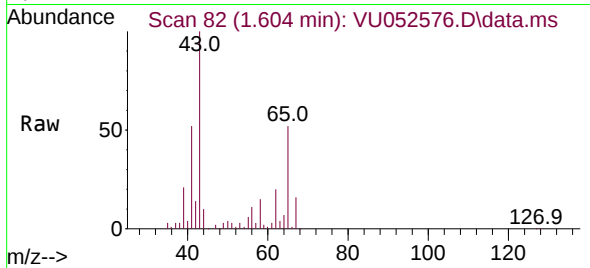




#5
 Vinyl chloride
 Concen: 0.913 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU052576.D
 Acq: 27 Dec 2022 19:46

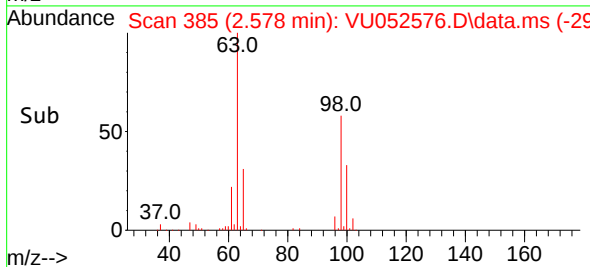
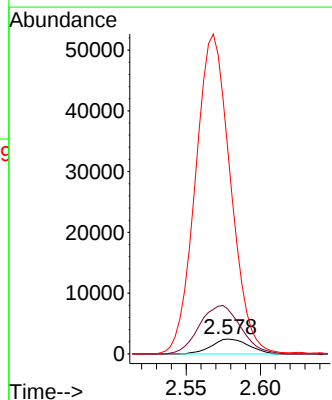
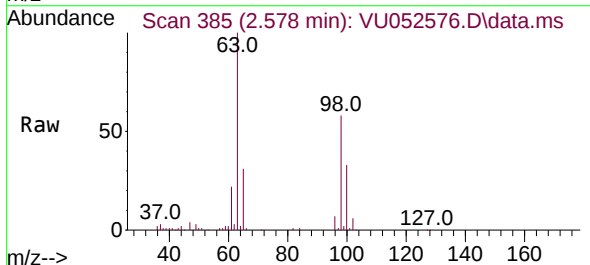
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 ClientSampleId :
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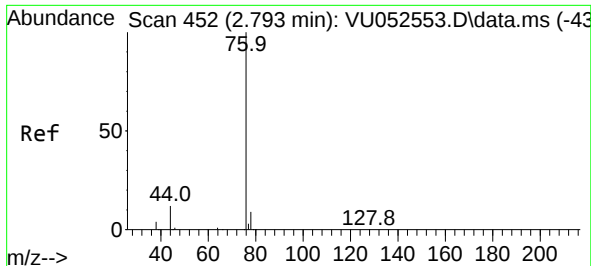
Tgt Ion: 62 Resp: 19081
 Ion Ratio Lower Upper
 62 100
 64 35.4 24.4 45.4



#12
 1,1-Dichloroethene
 Concen: 0.317 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. -0.003 min
 Lab File: VU052576.D
 Acq: 27 Dec 2022 19:46

Tgt Ion: 96 Resp: 4259
 Ion Ratio Lower Upper
 96 100
 61 300.8 135.4 251.4#
 63 1370.4 95.4 177.2#

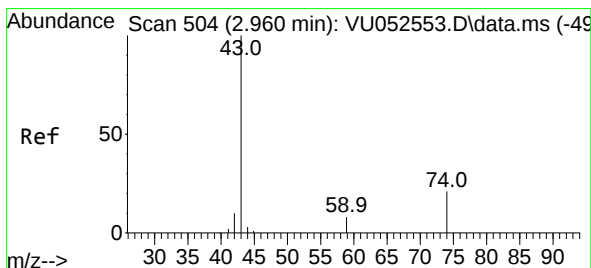
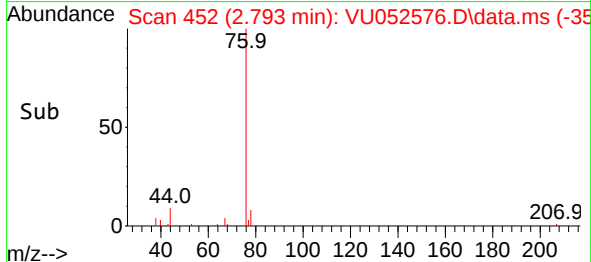
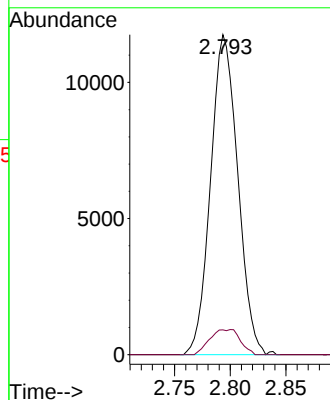
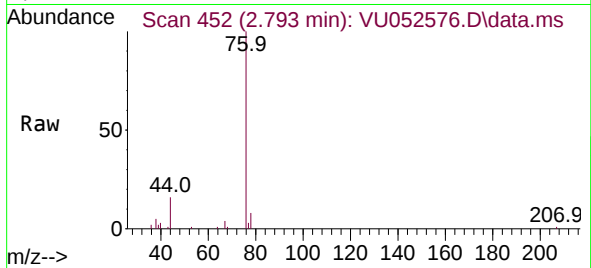




#14
Carbon disulfide
Concen: 0.461 ug/L
RT: 2.793 min Scan# 452
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

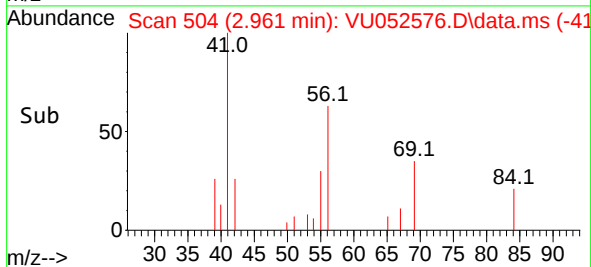
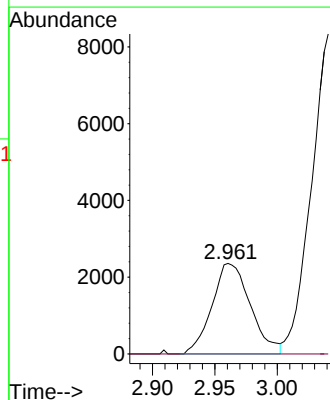
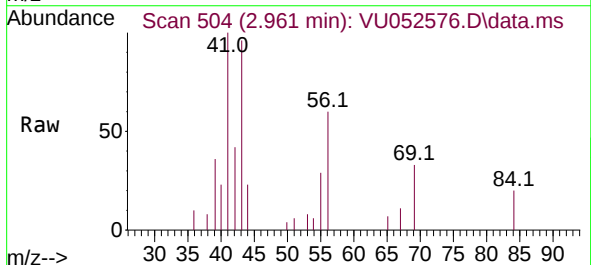
Instrument :
MSVOA_U
ClientSampleId :
GBQA6

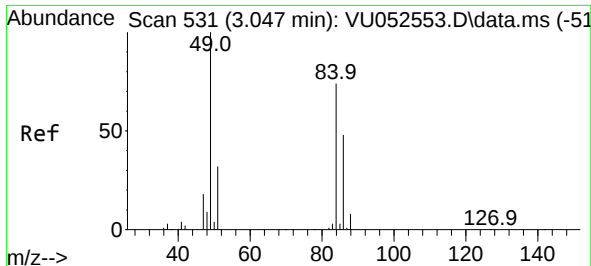
Tgt Ion: 76 Resp: 19968
Ion Ratio Lower Upper
76 100
78 7.7 7.1 10.7



#15
Methyl Acetate
Concen: 0.553 ug/L
RT: 2.961 min Scan# 504
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion: 43 Resp: 5070
Ion Ratio Lower Upper
43 100
74 0.0 16.9 25.3#

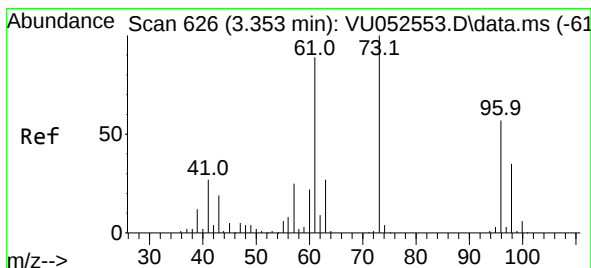
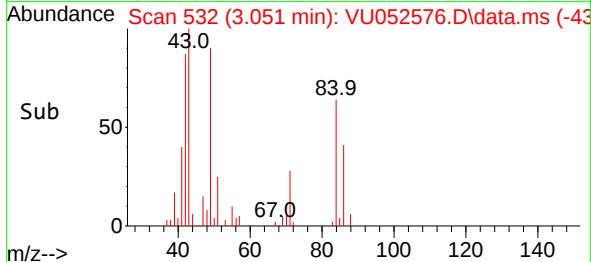
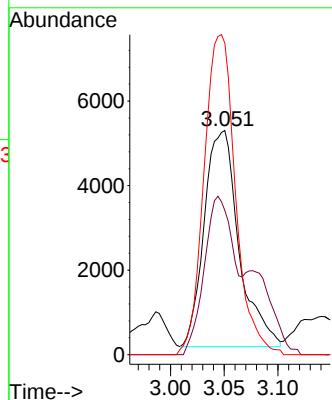
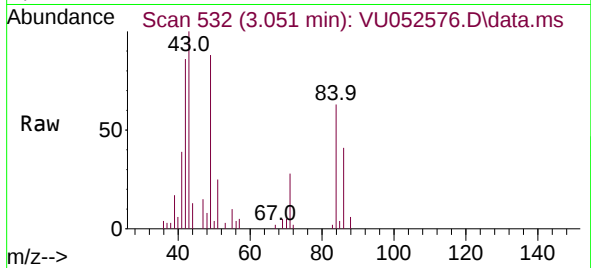




#16
Methylene chloride
Concen: 0.605 ug/L
RT: 3.051 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

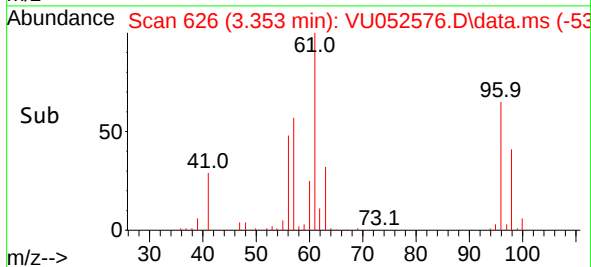
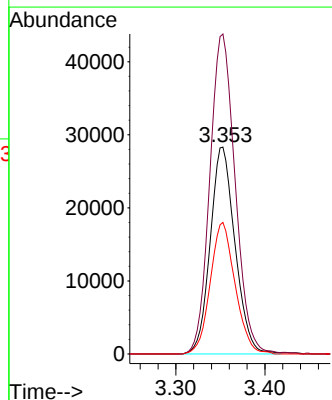
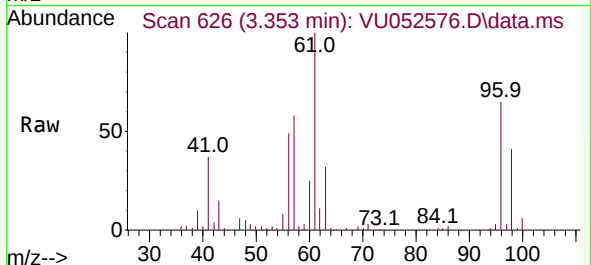
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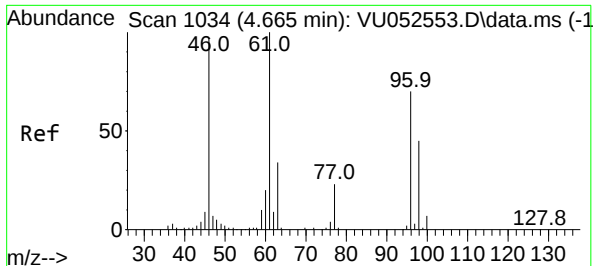
Tgt Ion: 84 Resp: 11483
Ion Ratio Lower Upper
84 100
86 64.3 44.7 83.1
49 139.0 93.3 173.3



#18
trans-1,2-Dichloroethene
Concen: 3.958 ug/L
RT: 3.353 min Scan# 626
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion: 96 Resp: 54852
Ion Ratio Lower Upper
96 100
61 154.7 108.3 201.1
98 63.6 44.0 81.6

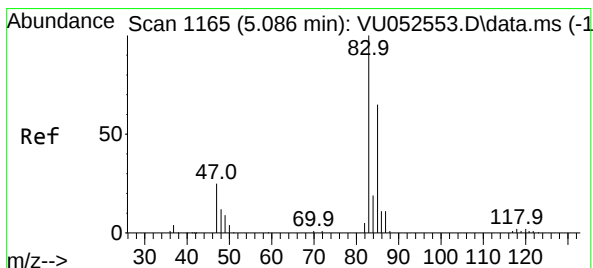
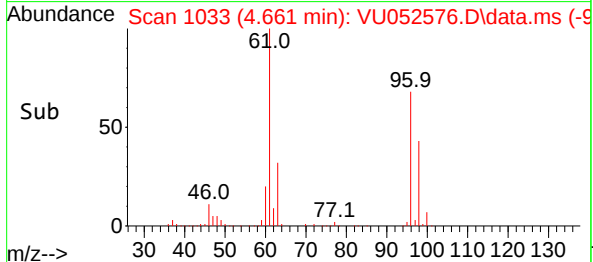
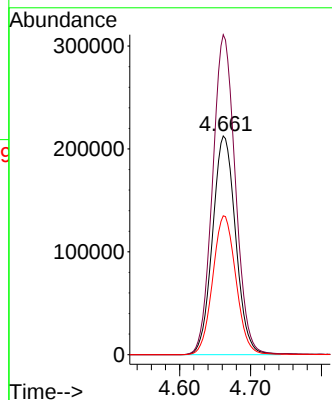
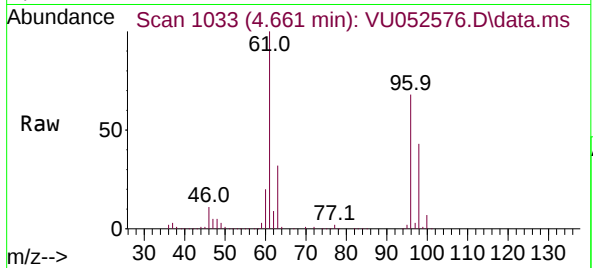




#22
 cis-1,2-Dichloroethene
 Concen: 31.710 ug/L
 RT: 4.661 min Scan# 1033
 Delta R.T. -0.003 min
 Lab File: VU052576.D
 Acq: 27 Dec 2022 19:46

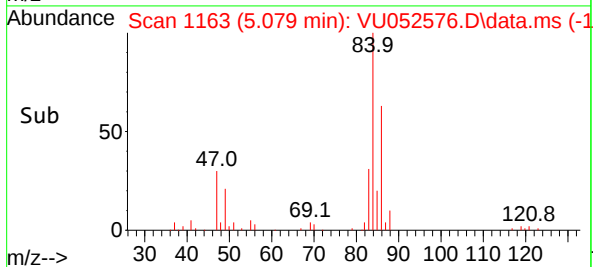
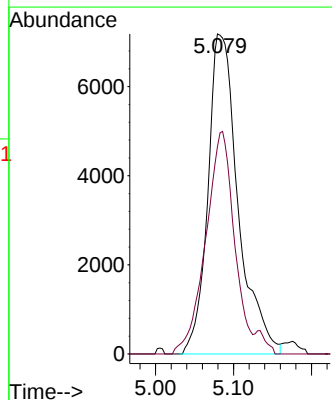
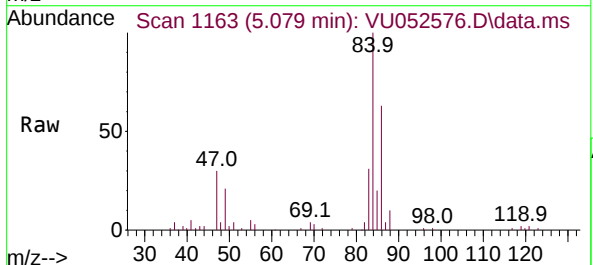
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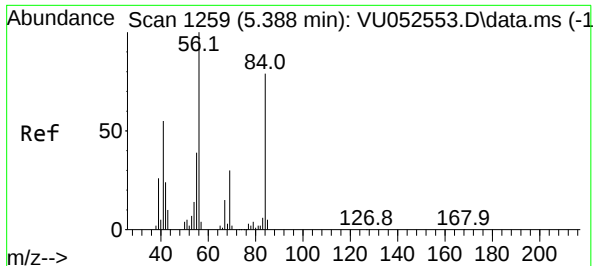
Tgt Ion: 96 Resp: 482222
 Ion Ratio Lower Upper
 96 100
 61 146.3 96.9 180.1
 98 63.5 44.7 83.1



#25
 Chloroform
 Concen: 0.664 ug/L
 RT: 5.079 min Scan# 1163
 Delta R.T. -0.006 min
 Lab File: VU052576.D
 Acq: 27 Dec 2022 19:46

Tgt Ion: 83 Resp: 19384
 Ion Ratio Lower Upper
 83 100
 85 64.9 44.7 83.1





#30

Cyclohexane

Concen: 6.185 ug/L

RT: 5.385 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

Instrument :

MSVOA_U

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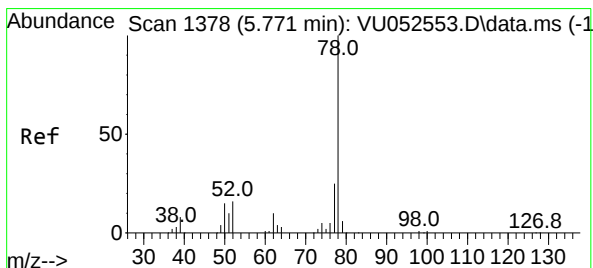
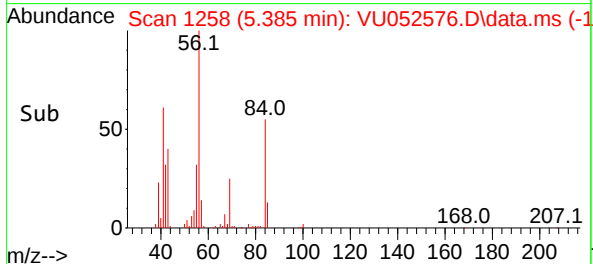
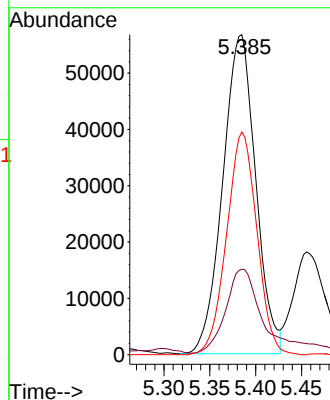
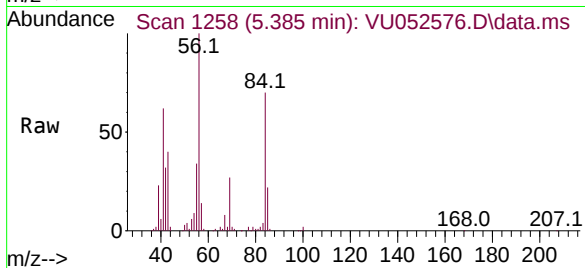
Tgt Ion: 56 Resp: 141647

Ion Ratio Lower Upper

56 100

69 32.9 23.0 34.6

84 64.2 64.4 96.6#



#33

Benzene

Concen: 0.283 ug/L

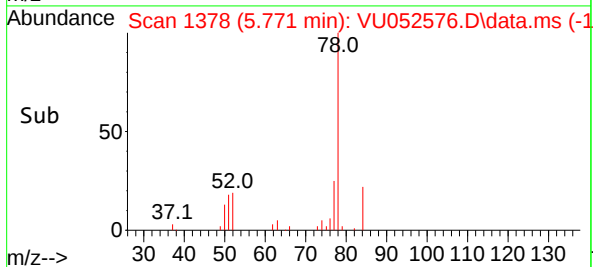
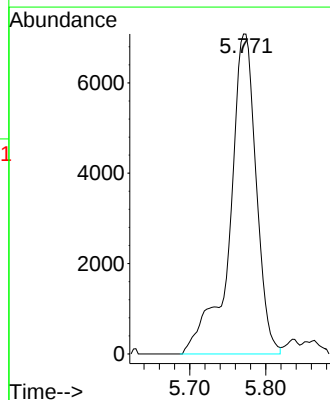
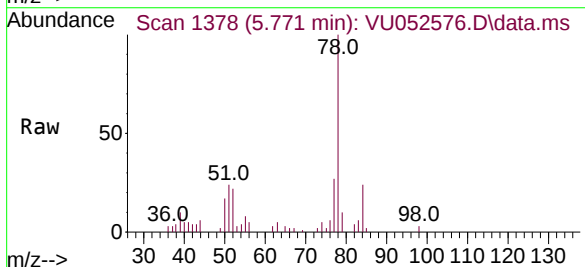
RT: 5.771 min Scan# 1378

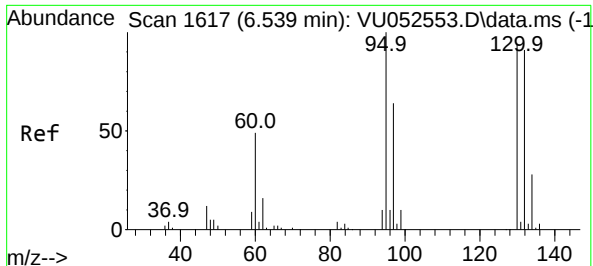
Delta R.T. 0.000 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

Tgt Ion: 78 Resp: 17149

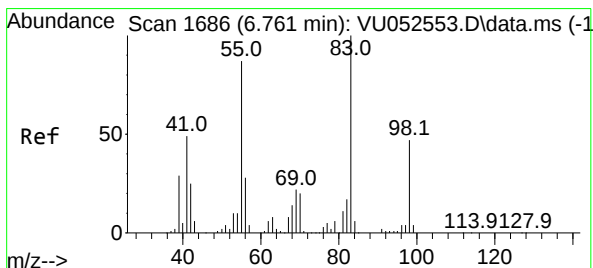
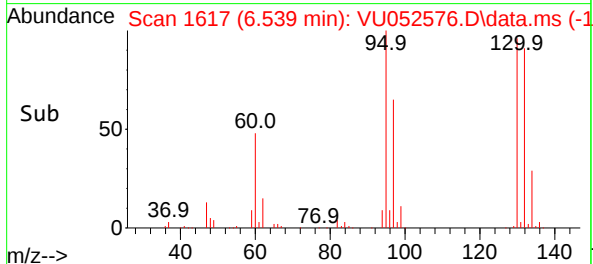
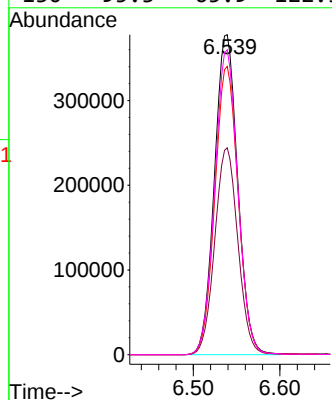
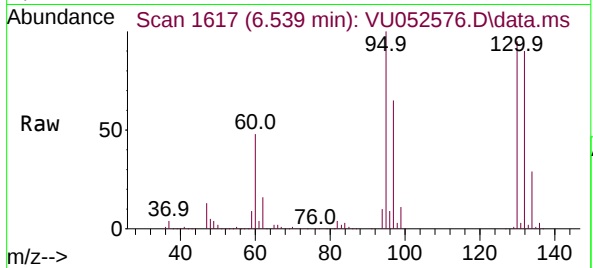




#34
Trichloroethene
Concen: 49.752 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. 0.000 min
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Acq: 27 Dec 2022 19:46

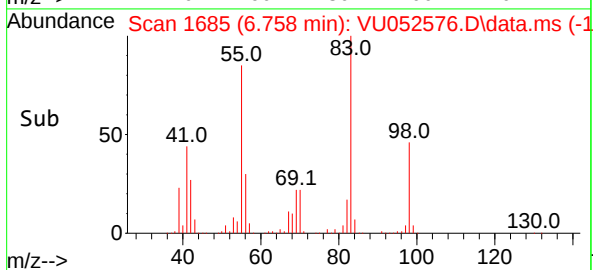
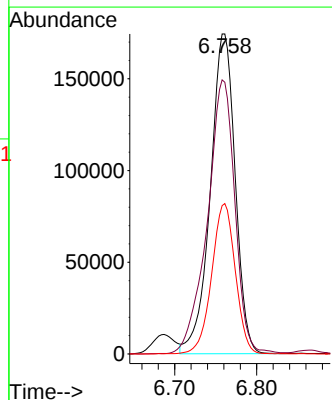
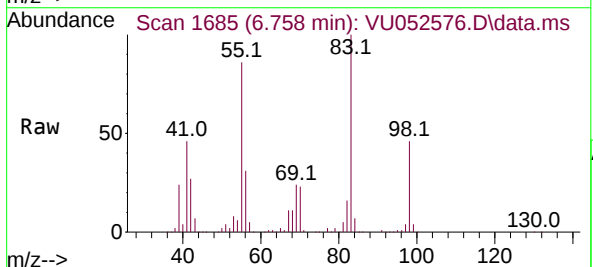
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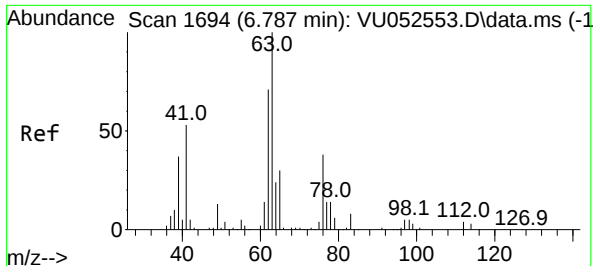
Tgt Ion: 95 Resp: 705454
Ion Ratio Lower Upper
95 100
97 64.7 46.3 86.1
132 90.1 63.9 118.7
130 95.3 65.9 122.5



#35
Methylcyclohexane
Concen: 17.213 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. -0.003 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion: 83 Resp: 368036
Ion Ratio Lower Upper
83 100
55 95.1 71.4 107.0
98 44.8 36.5 54.7





#37

1,2-Dichloropropane

Concen: 0.257 ug/L

RT: 6.755 min Scan# 1

Delta R.T. -0.032 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

Instrument :

MSVOA_U

ClientSampleId :

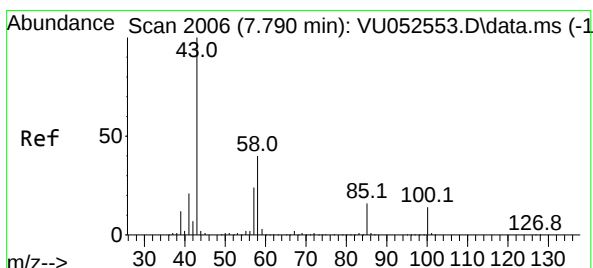
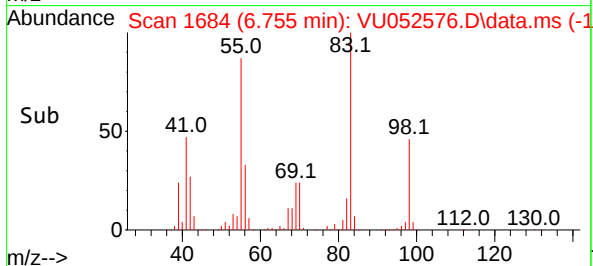
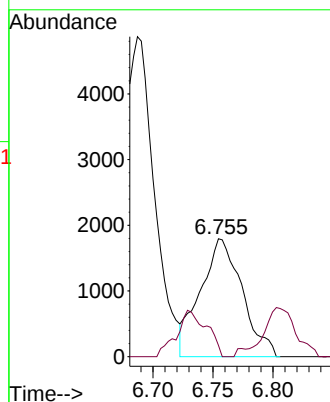
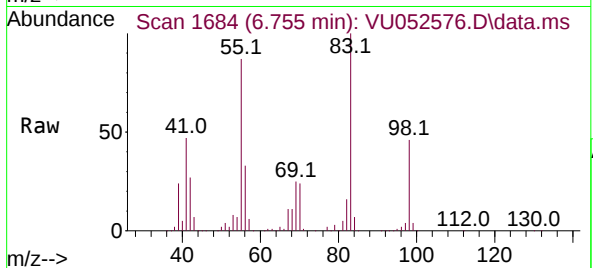
GBQA6

Tgt Ion: 63 Resp: 4358

Ion Ratio Lower Upper

63 100

112 28.1 3.0 4.6#



#40

4-Methyl-2-pentanone

Concen: 1.779 ug/L

RT: 7.851 min Scan# 2025

Delta R.T. 0.061 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

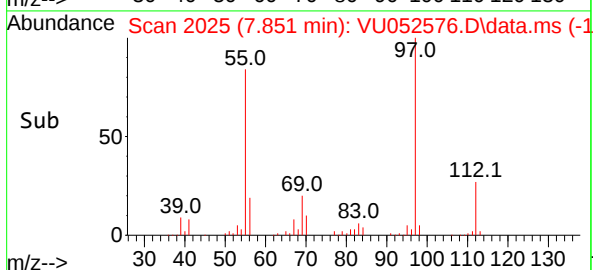
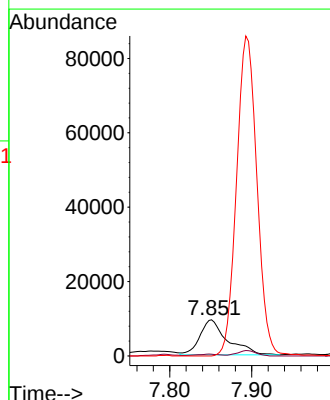
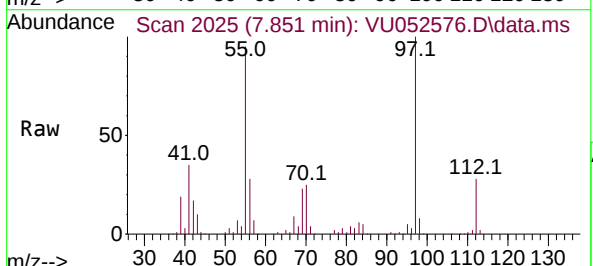
Tgt Ion: 43 Resp: 22005

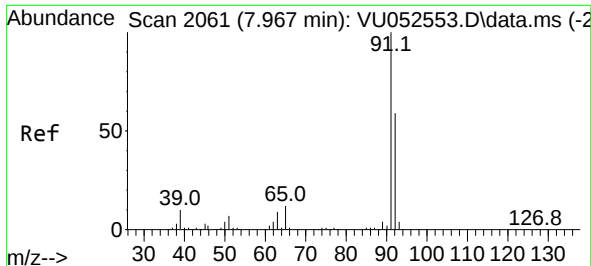
Ion Ratio Lower Upper

43 100

58 4.5 30.6 45.8#

100 0.0 10.4 15.6#

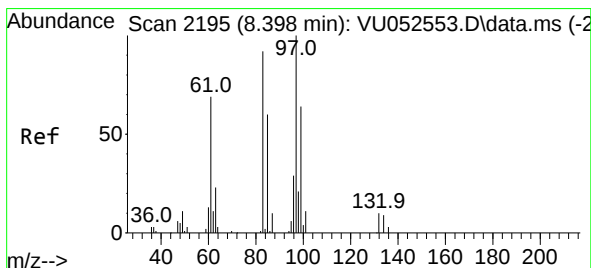
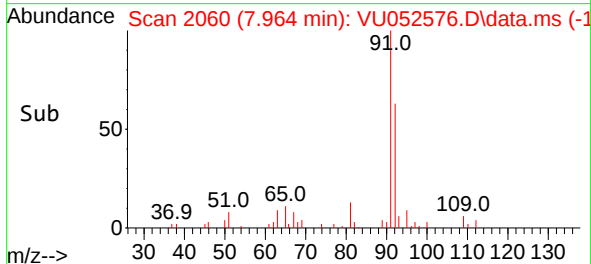
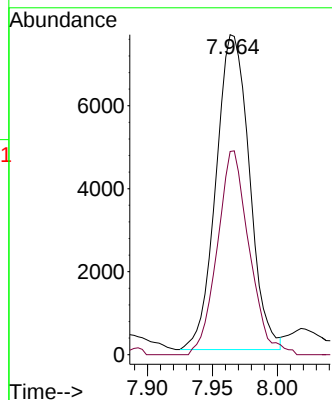
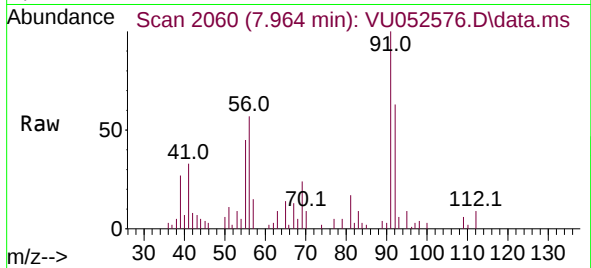




#42
Toluene
Concen: 0.234 ug/L
RT: 7.964 min Scan# 2061
Delta R.T. -0.003 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

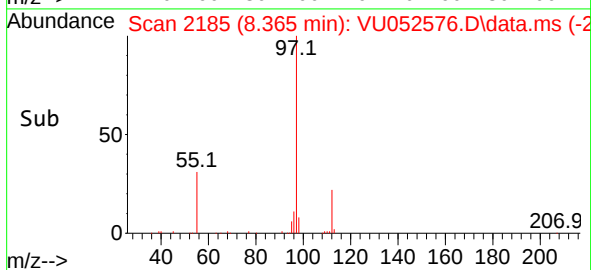
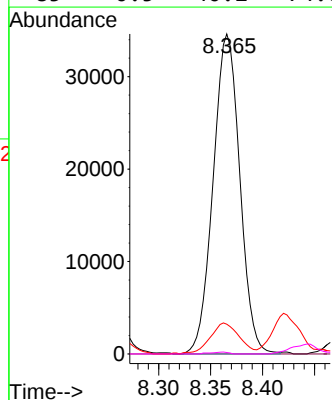
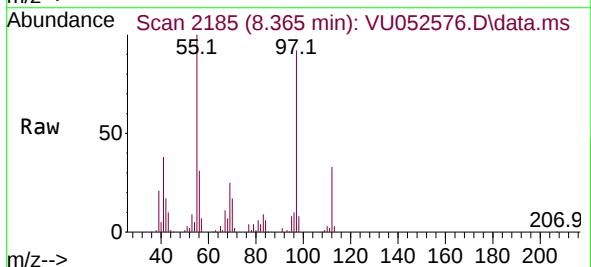
Instrument :
MSVOA_U
ClientSampleId :
GBQA6

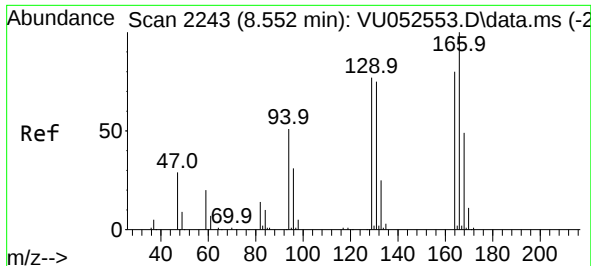
Tgt Ion: 91 Resp: 13600
Ion Ratio Lower Upper
91 100
92 63.5 40.6 75.4



#45
1,1,2-Trichloroethane
Concen: 5.145 ug/L
RT: 8.365 min Scan# 2185
Delta R.T. -0.032 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

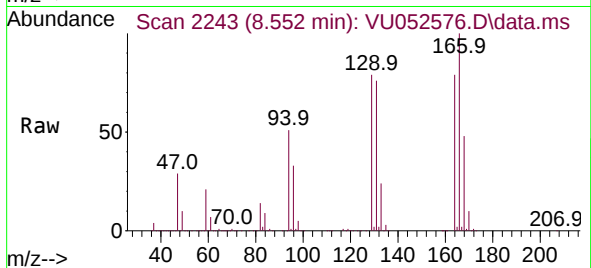
Tgt Ion: 97 Resp: 61674
Ion Ratio Lower Upper
97 100
99 0.0 42.0 78.0#
83 9.3 63.2 117.4#
85 0.5 40.2 74.6#





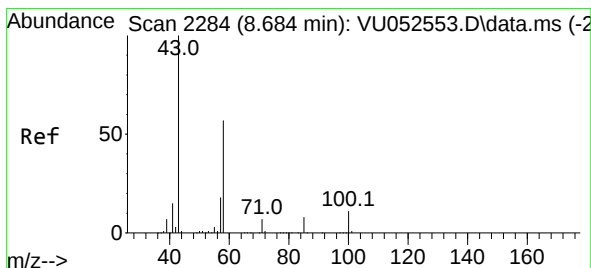
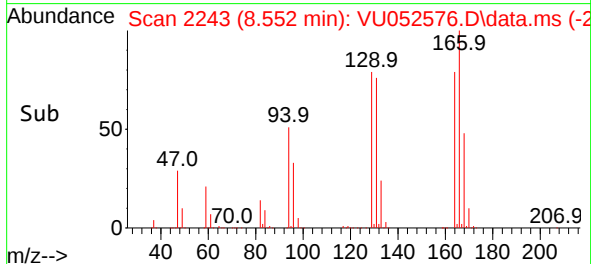
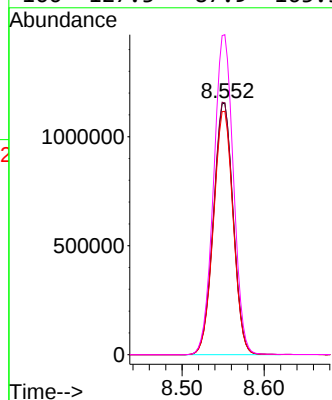
#47
Tetrachloroethene
Concen: 194.566 ug/L
RT: 8.552 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Instrument :
MSVOA_U
ClientSampleId :
GBQA6



Tgt Ion:164 Resp: 1925747

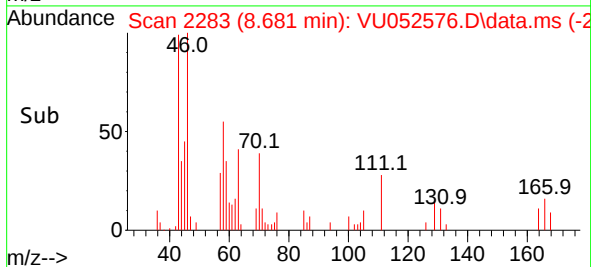
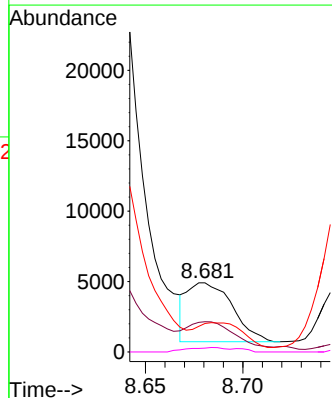
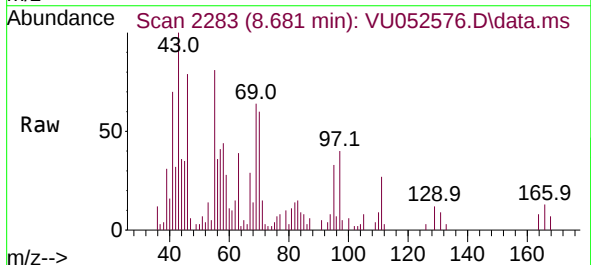
Ion	Ratio	Lower	Upper
164	100		
129	100.2	68.1	126.5
131	96.8	66.5	123.5
166	127.3	87.9	163.3

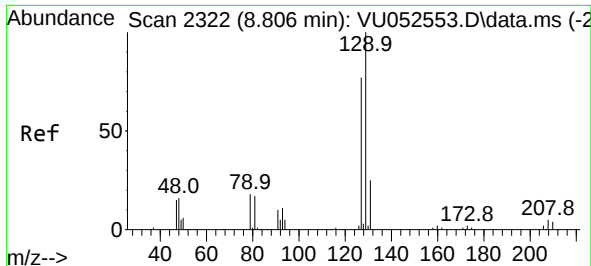


#48
2-Hexanone
Concen: 0.726 ug/L
RT: 8.681 min Scan# 2283
Delta R.T. -0.003 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion: 43 Resp: 6765

Ion	Ratio	Lower	Upper
43	100		
58	46.5	44.1	66.1
57	43.3	14.6	21.8#
100	6.5	8.5	12.7#

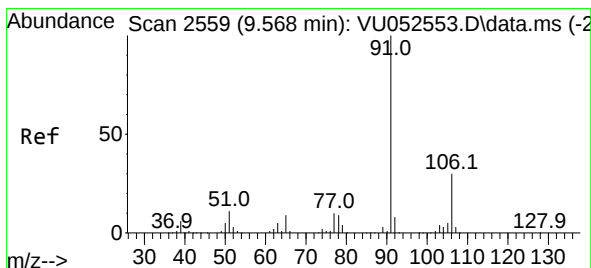
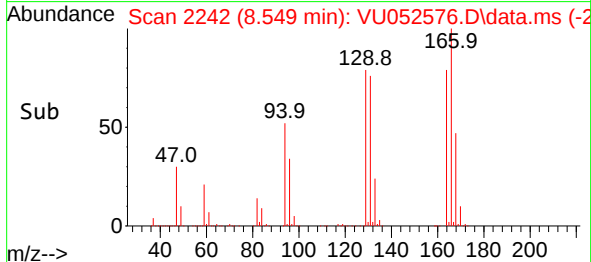
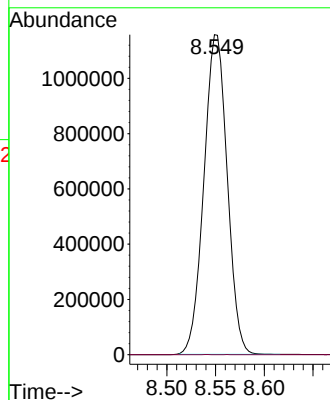
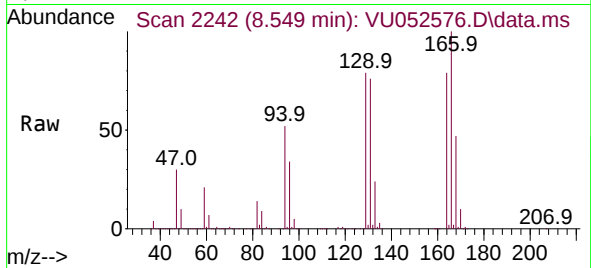




#49
Dibromochloromethane
Concen: 151.606 ug/L
RT: 8.549 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

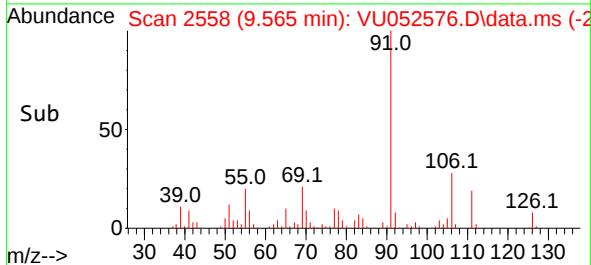
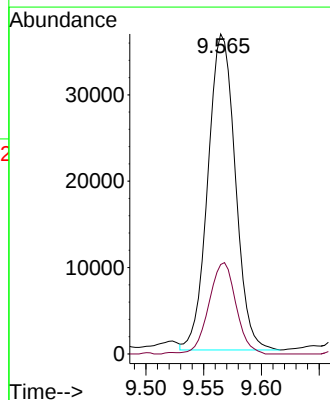
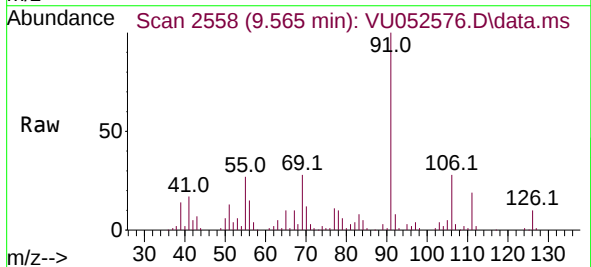
Instrument :
MSVOA_U
ClientSampleId :
GBQA6

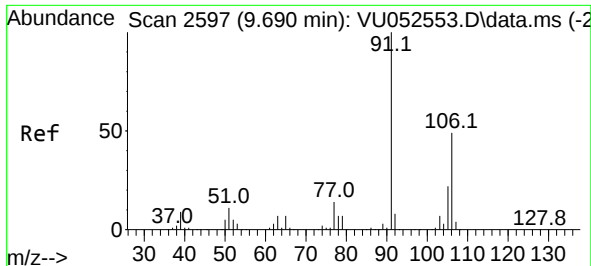
Tgt Ion:129 Resp: 1924391
Ion Ratio Lower Upper
129 100
127 0.0 54.2 100.6#



#52
Ethylbenzene
Concen: 1.003 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.003 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion: 91 Resp: 60388
Ion Ratio Lower Upper
91 100
106 28.0 20.9 38.7

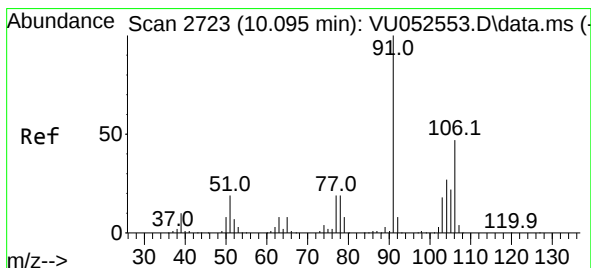
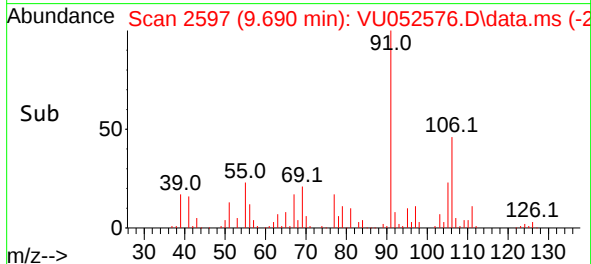
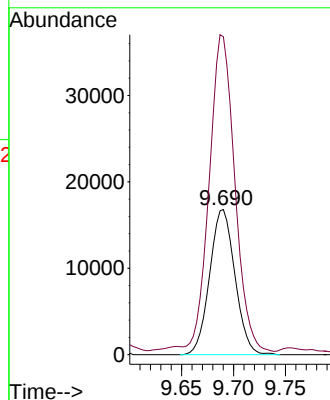
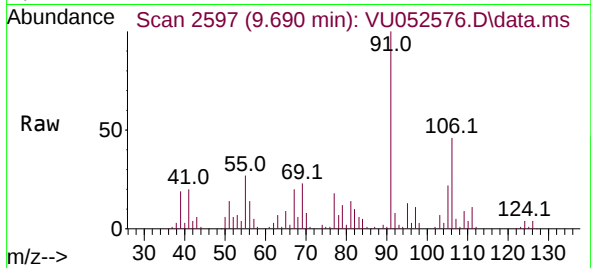




#53
m,p-Xylene
Concen: 1.283 ug/L
RT: 9.690 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

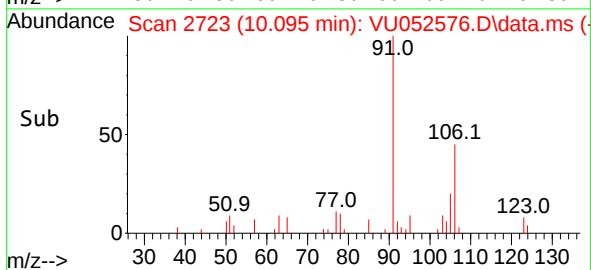
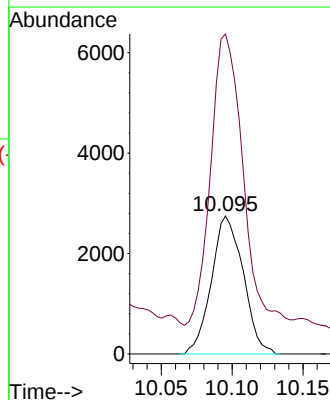
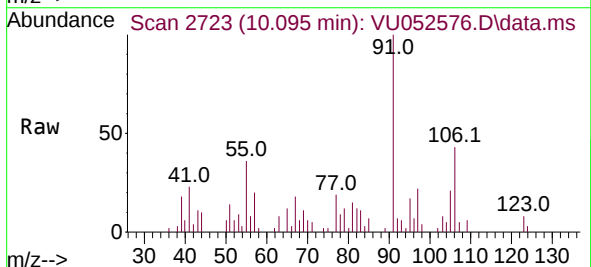
Instrument :
MSVOA_U
ClientSampleId :
GBQA6

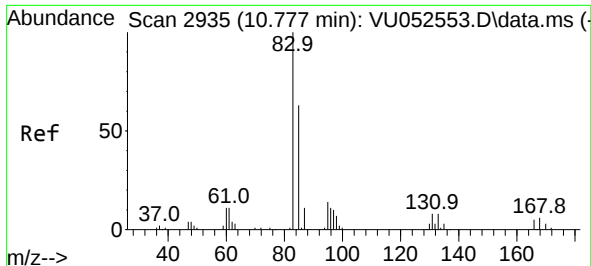
Tgt Ion:106 Resp: 28466
Ion Ratio Lower Upper
106 100
91 219.0 148.2 275.2



#54
o-Xylene
Concen: 0.201 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion:106 Resp: 4283
Ion Ratio Lower Upper
106 100
91 232.1 153.2 284.4





#57

1,1,2,2-Tetrachloroethane

Concen: 0.607 ug/L

RT: 10.803 min Scan# 2935

Delta R.T. 0.026 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

Instrument :

MSVOA_U

ClientSampleId :

GBQA6

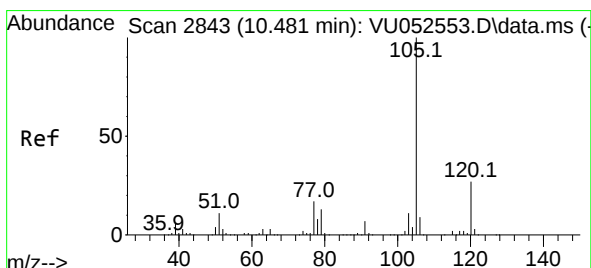
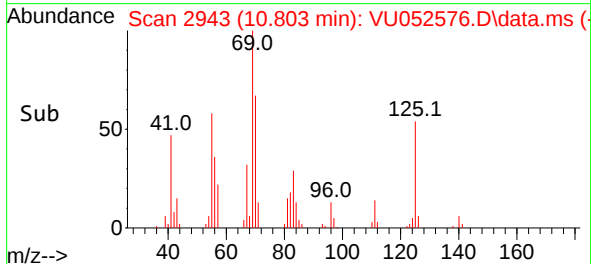
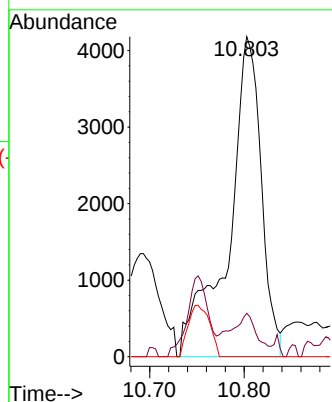
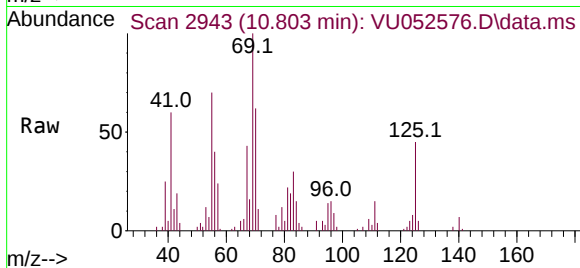
Tgt Ion: 83 Resp: 10052

Ion Ratio Lower Upper

83 100

85 13.5 44.7 83.1#

131 0.0 6.0 9.0#



#60

Isopropylbenzene

Concen: 0.755 ug/L

RT: 10.478 min Scan# 2842

Delta R.T. -0.003 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

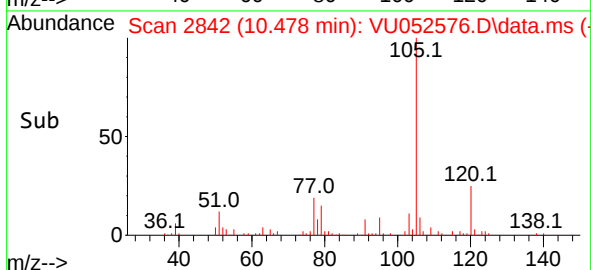
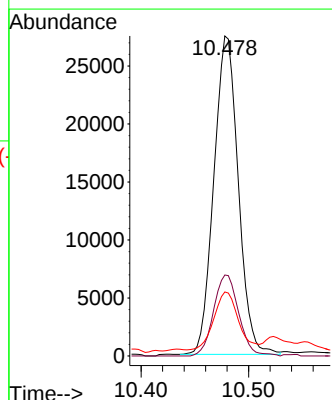
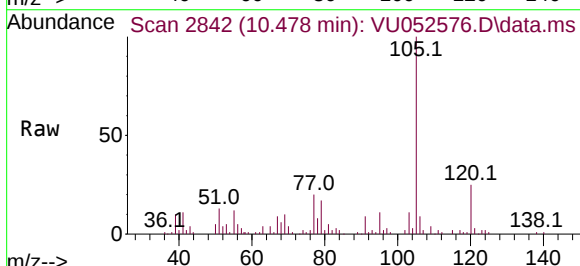
Tgt Ion: 105 Resp: 43327

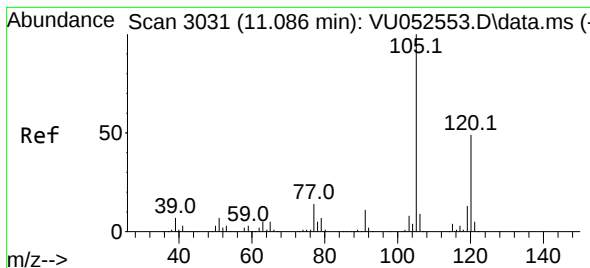
Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0

77 18.3 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 0.855 ug/L

RT: 11.082 min Scan# 3031

Delta R.T. -0.003 min

Lab File: VU052576.D

Acq: 27 Dec 2022 19:46

Instrument :

MSVOA_U

ClientSampleId :

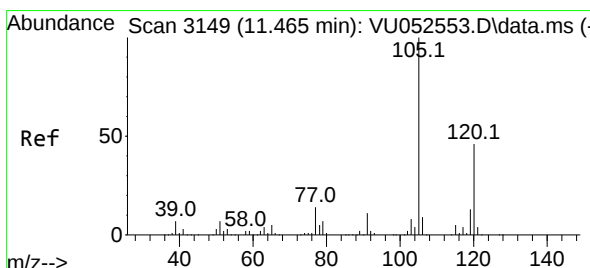
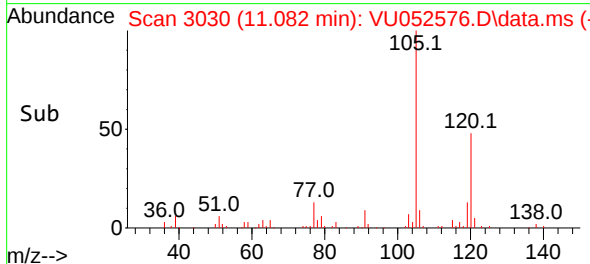
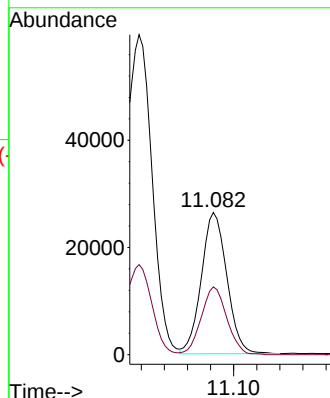
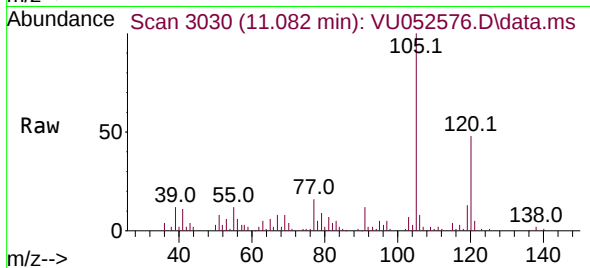
GBQA6

Tgt Ion:105 Resp: 40480

Ion Ratio Lower Upper

105 100

120 48.3 38.6 57.8



#63

1,2,4-Trimethylbenzene

Concen: 1.926 ug/L

RT: 11.462 min Scan# 3148

Delta R.T. -0.003 min

Lab File: VU052576.D

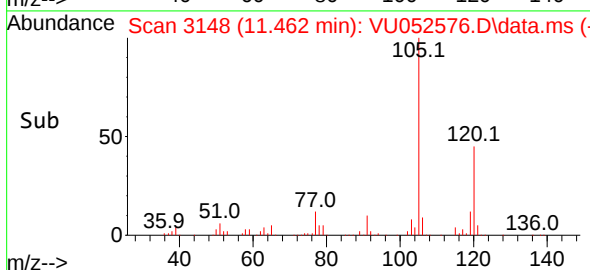
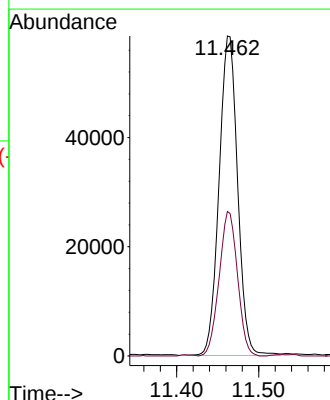
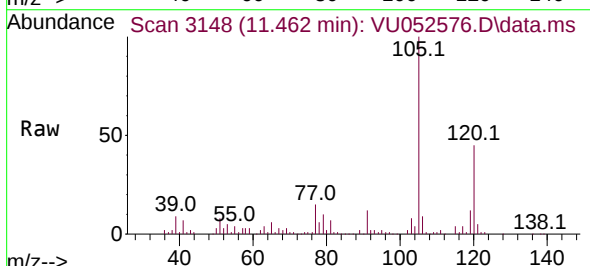
Acq: 27 Dec 2022 19:46

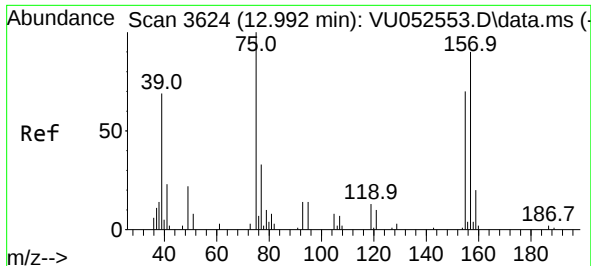
Tgt Ion:105 Resp: 91799

Ion Ratio Lower Upper

105 100

120 44.7 35.6 53.4

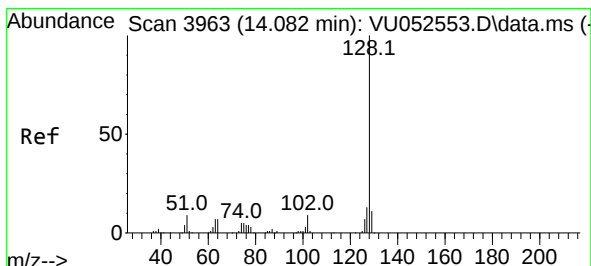
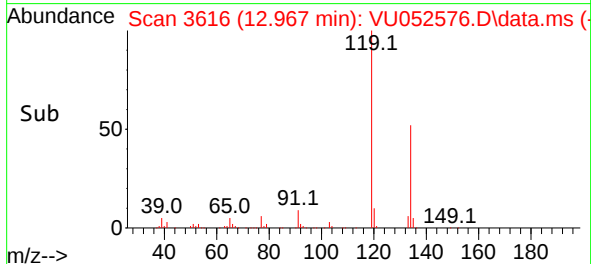
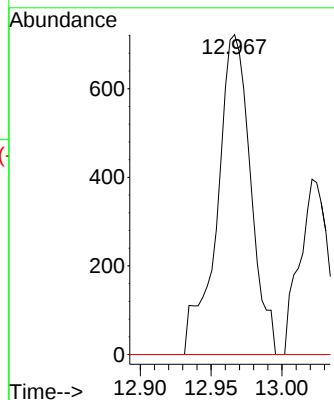
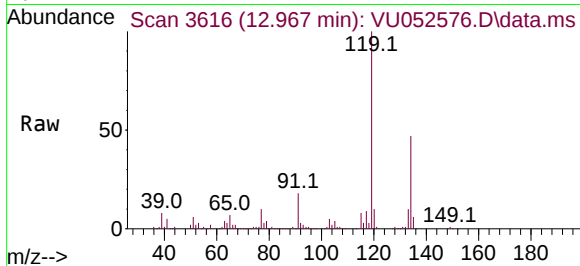




#68
1,2-Dibromo-3-chloropropane
Concen: 0.414 ug/L
RT: 12.967 min Scan# 30
Delta R.T. -0.026 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Instrument :
MSVOA_U
ClientSampleId :
GBQA6

Tgt Ion: 75 Resp: 1191
Ion Ratio Lower Upper
75 100
155 0.0 62.2 93.2#
157 0.0 73.0 109.4#



#71
Naphthalene
Concen: 0.751 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. 0.000 min
Lab File: VU052576.D
Acq: 27 Dec 2022 19:46

Tgt Ion: 128 Resp: 26825
Ion Ratio Lower Upper
128 100
129 5.6 8.7 13.1#
127 8.0 10.6 16.0#

