

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U071720\
 Data File : VU039552.D
 Acq On : 17 Jul 2020 15:16
 Operator : SY/MD
 Sample : L3292-17
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFT92

Quant Time: Jul 17 23:43:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 17 23:38:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	87515	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	84242	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	39755	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	20093	3.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.20%
7) Chloroethane-d5	1.93	69	26343	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	2.58	63	34300	3.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.80%
20) 2-Butanone-d5	4.65	46	98675	42.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.04%
24) Chloroform-d	5.09	84	50816	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.72	65	33472	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.75	84	98125	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.71	67	33551	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.91	98	85890	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
43) trans-1,3-Dichloropropene-	8.19	79	13367	4.25	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.00%
46) 2-Hexanone-d5	8.64	63	72680	38.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.88%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	30107	4.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	34357	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2232	0.421 ug/L	92
3) Chloromethane	1.53	50	1138	0.177 ug/L	93
8) Chloroethane	2.13	64	478	0.093 ug/L	88
9) Trichlorofluoromethane	2.15	101	4430	0.358 ug/L	89
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3092	0.608 ug/L	94
12) 1,1-Dichloroethene	2.60	96	4280	0.822 ug/L #	39
13) Acetone	2.65	43	7209	5.755 ug/L	98
14) Carbon disulfide	2.81	76	2618	0.143 ug/L	99
16) Methylene chloride	3.06	84	435	0.066 ug/L	91
17) Methyl tert-butyl Ether	3.39	73	3845	0.234 ug/L #	92
19) 1,1-Dichloroethane	3.89	63	2386	0.212 ug/L #	78
22) cis-1,2-Dichloroethene	4.69	96	29366	4.545 ug/L	97
25) Chloroform	5.11	83	9450	0.830 ug/L	97
29) 1,1,1-Trichloroethane	5.34	97	1194	0.120 ug/L #	51
31) Carbon tetrachloride	5.54	117	2419	0.286 ug/L	92
34) Trichloroethene	6.56	95	199998	30.715 ug/L	98
35) Methylcyclohexane	6.71	83	7805	0.748 ug/L #	18

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QLast Update : Fri Jul 17 23:38:36 2020
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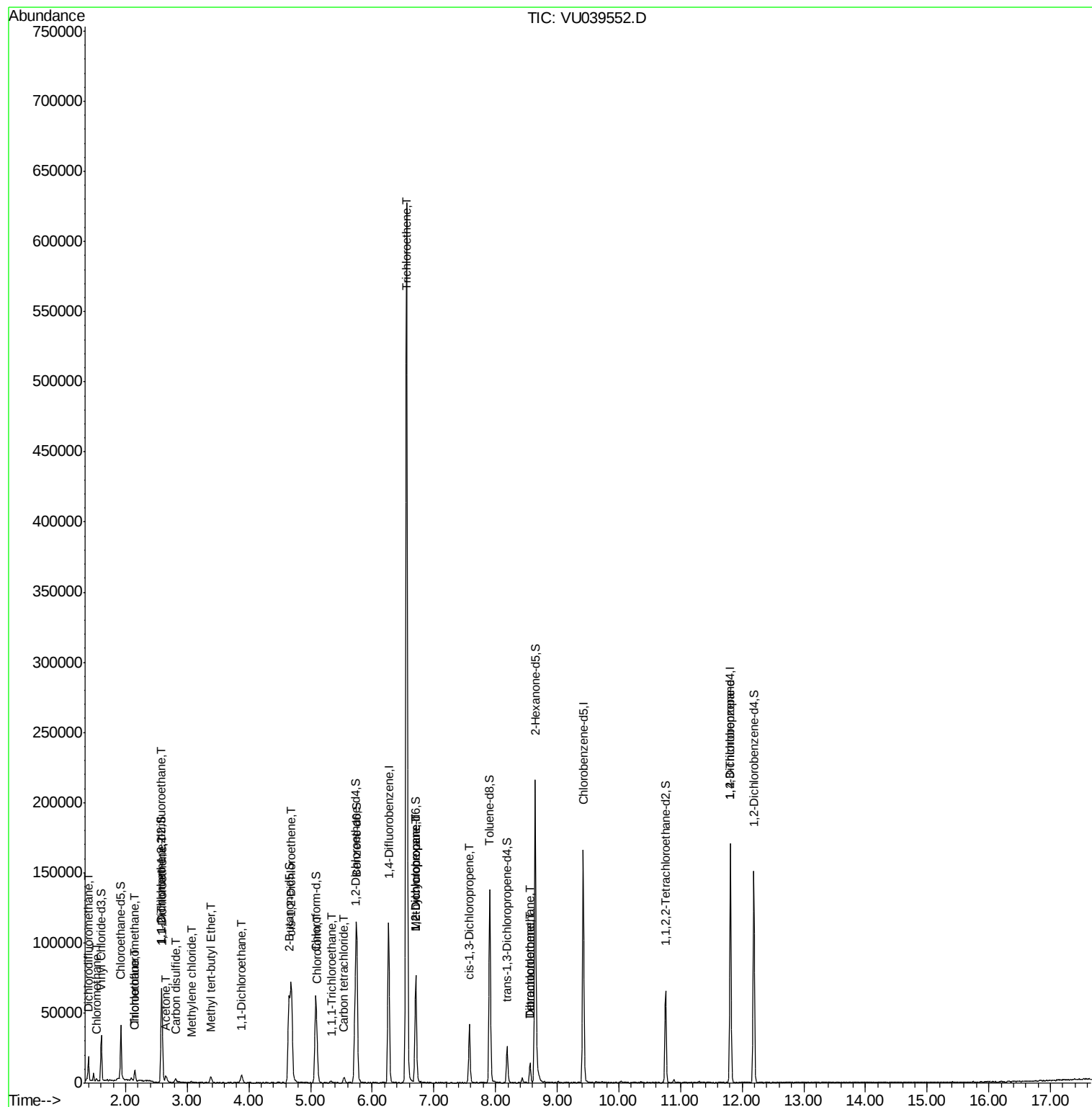
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.71	63	3839	0.559	ug/L #	91
39) cis-1,3-Dichloropropene	7.57	75	1405	0.135	ug/L #	72
47) Tetrachloroethene	8.56	164	2885	0.637	ug/L	92
49) Dibromochloromethane	8.56	129	2576	0.431	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6193	1.224	ug/L	98

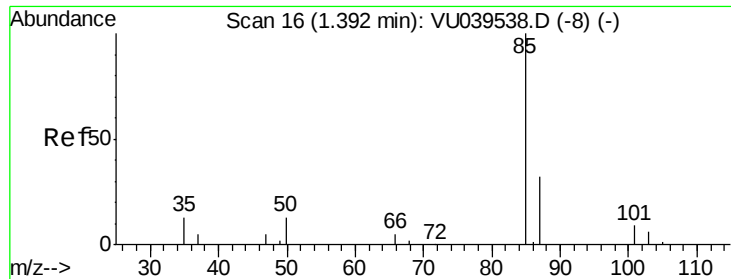
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.421 ug/L

RT: 1.39 min Scan# 16

Delta R.T. -0.00 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

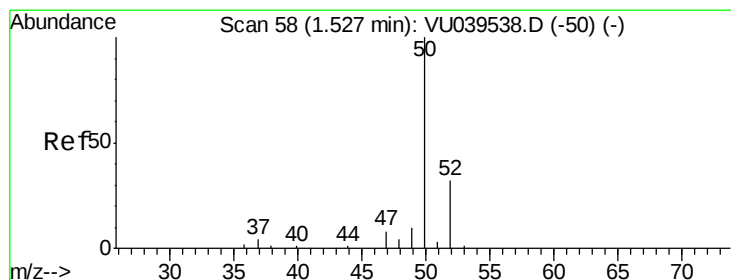
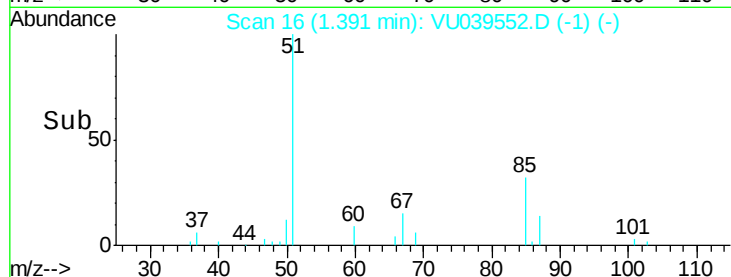
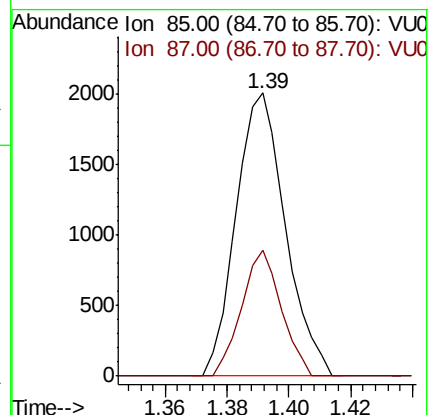
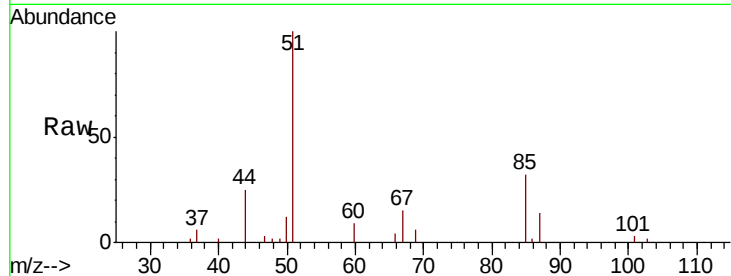
BFT92

Tot Ion: 85 Resp: 2232

Ion Ratio Lower Upper

85 100

87 35.9 25.2 37.8



#3

Chloromethane

Concen: 0.177 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU039552.D

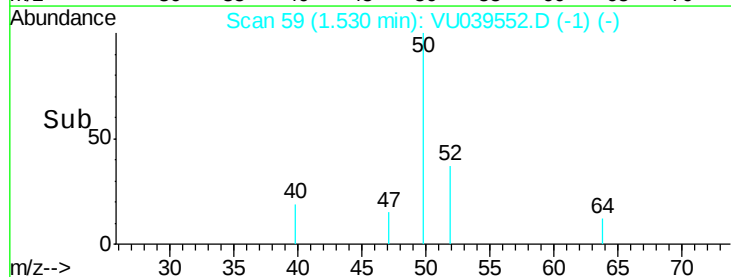
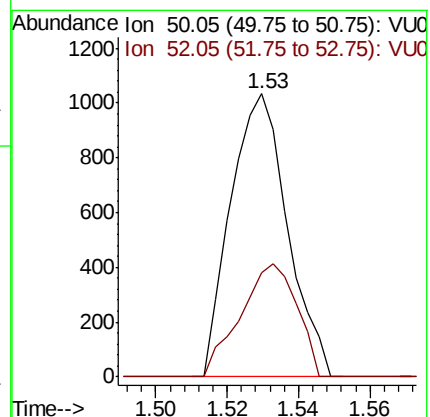
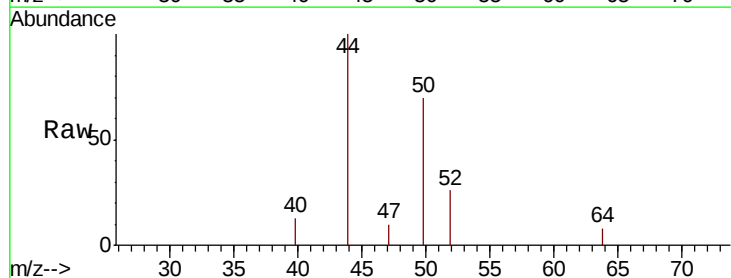
Acq: 17 Jul 2020 15:16

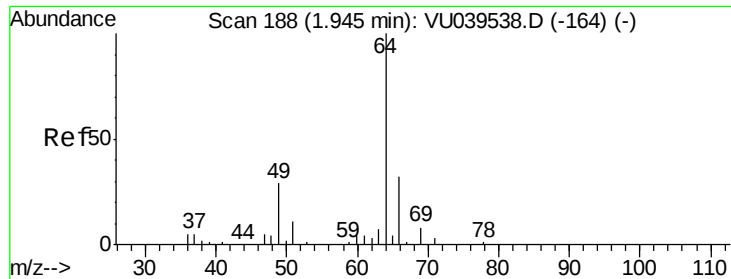
Tgt Ion: 50 Resp: 1138

Ion Ratio Lower Upper

50 100

52 36.9 23.0 42.8

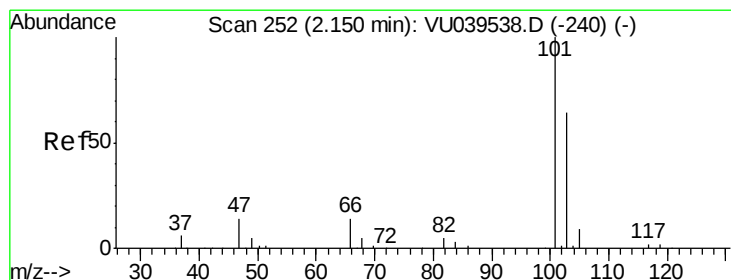
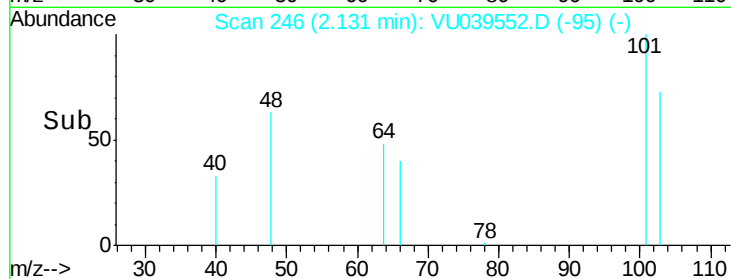
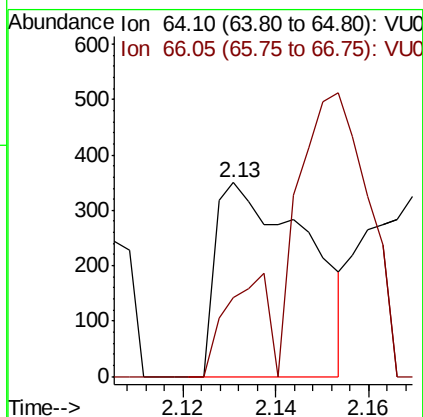
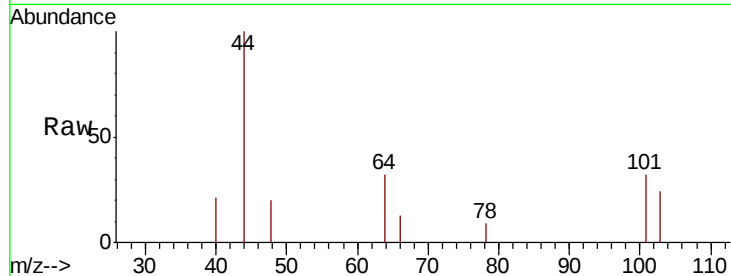




#8
Chloroethane
Concen: 0.093 ug/L
RT: 2.13 min Scan# 246
Delta R.T. 0.19 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

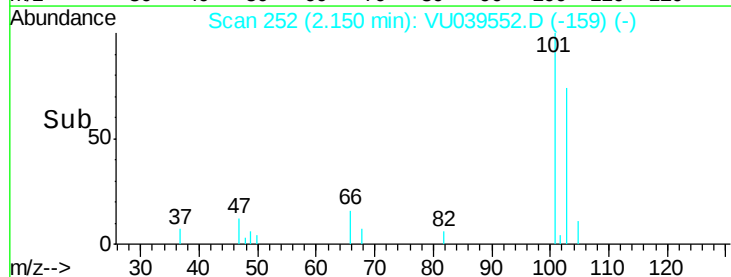
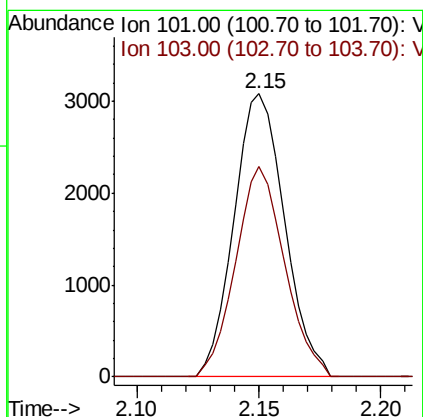
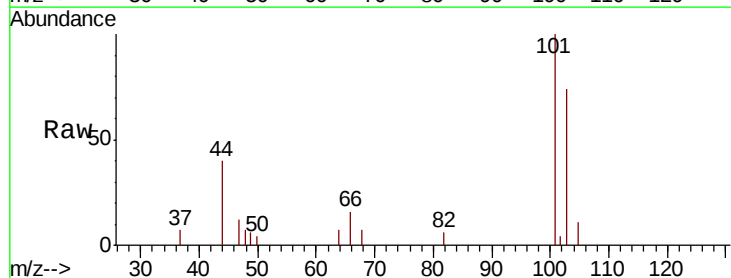
Instrument :
MSVOA_U
ClientSampled :
BFT92

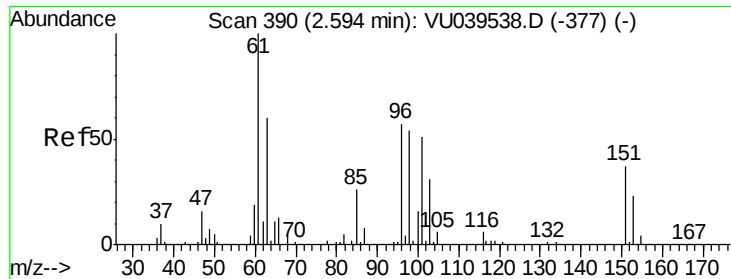
Tot Ion: 64 Resp: 478
Ion Ratio Lower Upper
64 100
66 40.6 23.5 43.7



#9
Trichlorofluoromethane
Concen: 0.358 ug/L
RT: 2.15 min Scan# 252
Delta R.T. -0.00 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

Tgt Ion:101 Resp: 4430
Ion Ratio Lower Upper
101 100
103 71.9 50.6 76.0





#10

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

Concen: 0.608 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

BFT92

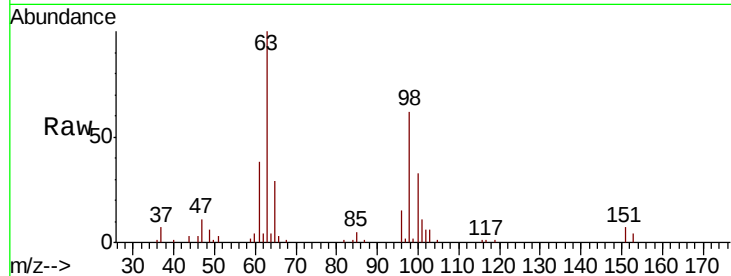
Tot Ion:101 Resp: 3092

Ion Ratio Lower Upper

101 100

85 52.6 38.9 58.3

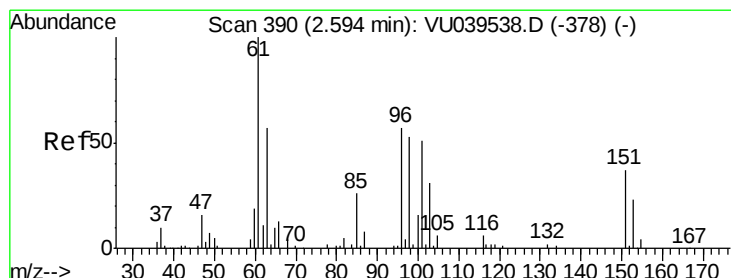
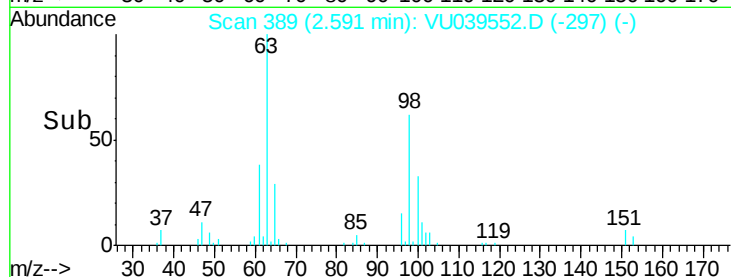
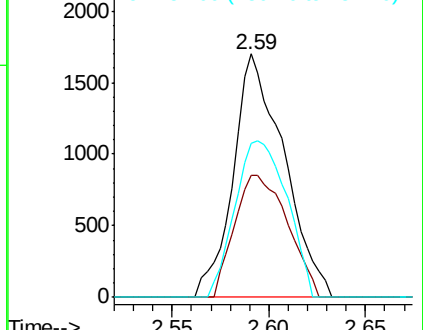
151 65.8 57.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.822 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

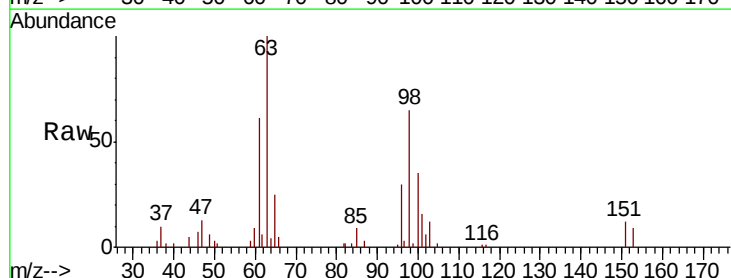
Tgt Ion: 96 Resp: 4280

Ion Ratio Lower Upper

96 100

61 180.9 125.4 232.8

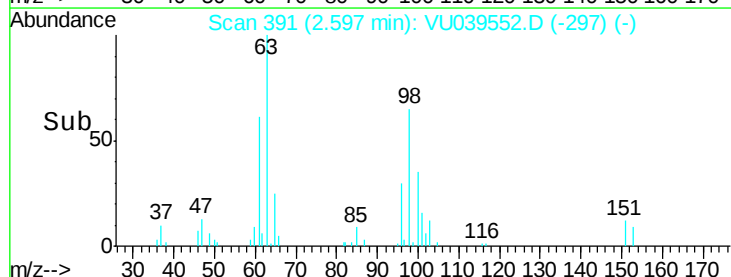
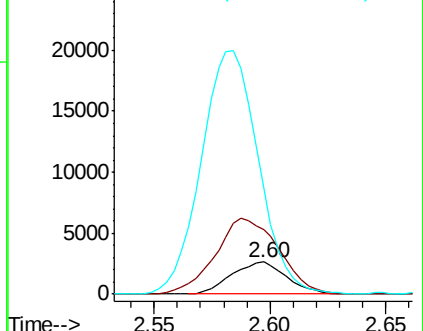
63 298.3 92.7 172.3#

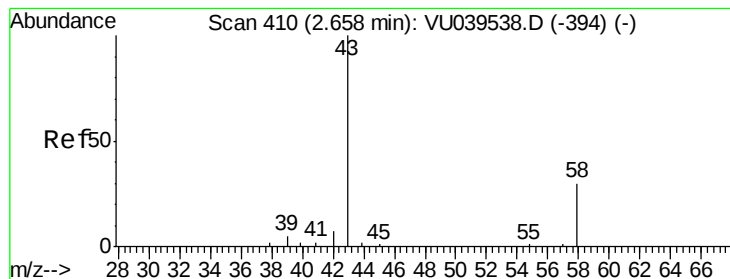


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.755 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

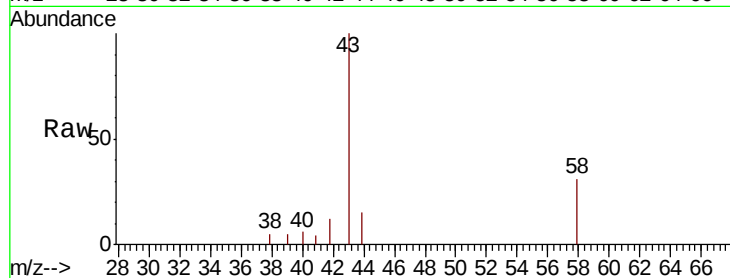
BFT92

Tot Ion: 43 Resp: 7209

Ion Ratio Lower Upper

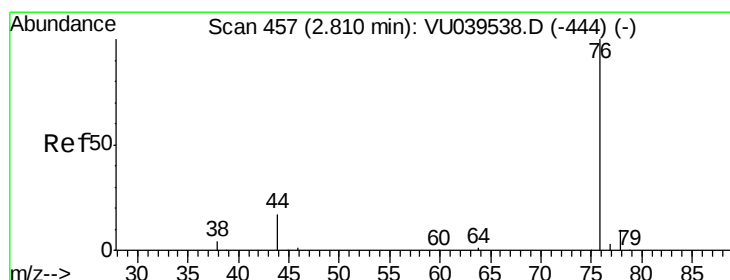
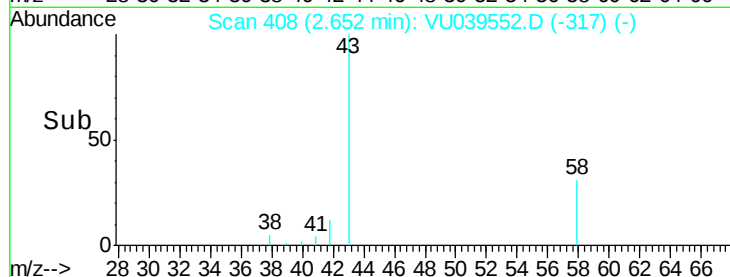
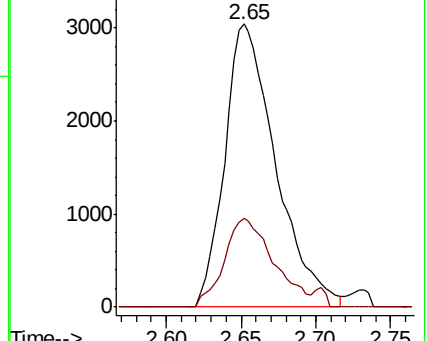
43 100

58 30.5 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039538.D (-394) (-)

Ion 58.05 (57.75 to 58.75): VU039538.D (-394) (-)



#14

Carbon disulfide

Concen: 0.143 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.00 min

Lab File: VU039552.D

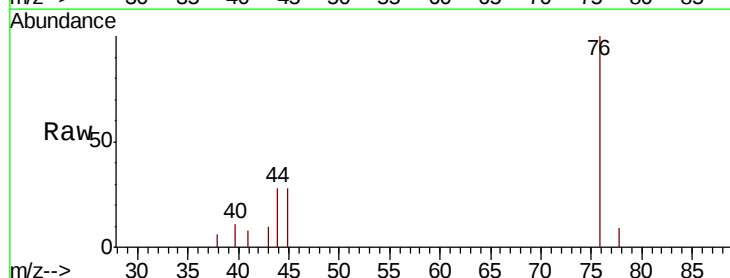
Acq: 17 Jul 2020 15:16

Tgt Ion: 76 Resp: 2618

Ion Ratio Lower Upper

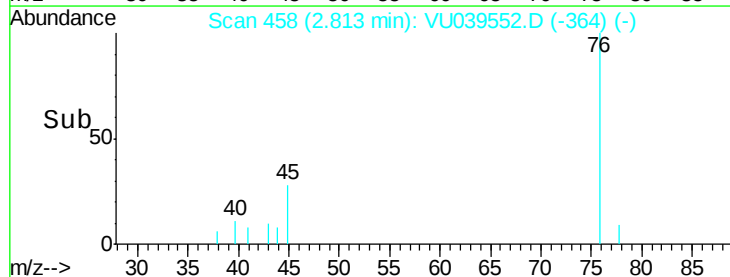
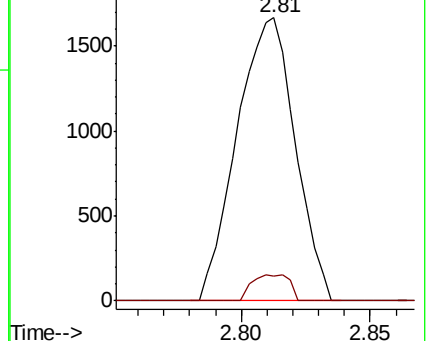
76 100

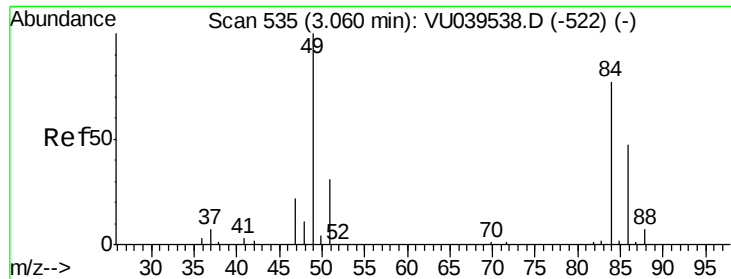
78 8.9 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU039538.D (-444) (-)

Ion 78.00 (77.70 to 78.70): VU039538.D (-444) (-)

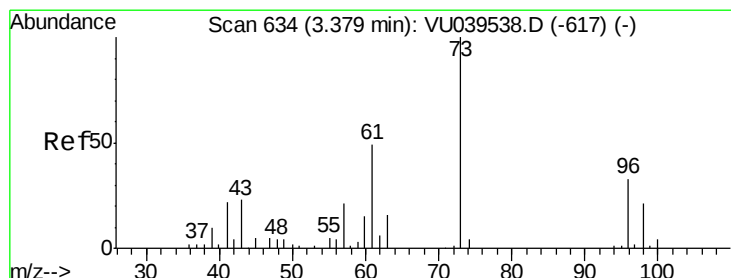
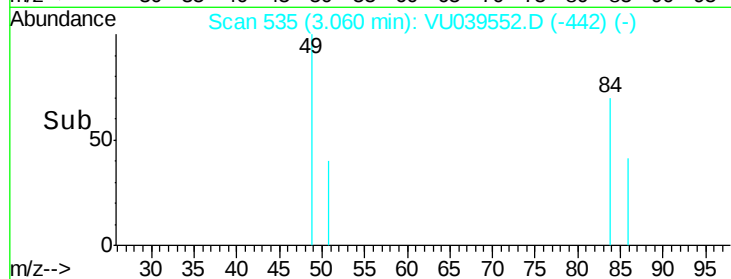
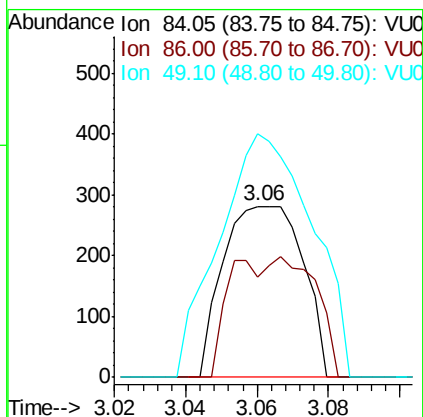
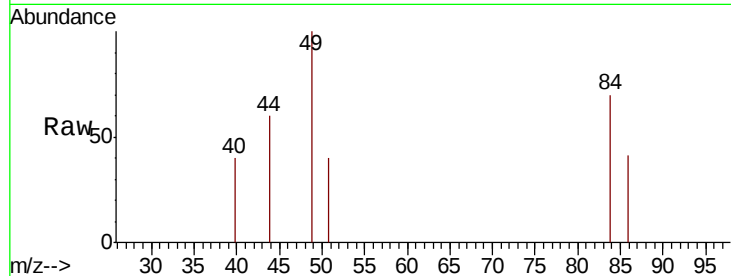




#16
Methylene chloride
Concen: 0.066 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

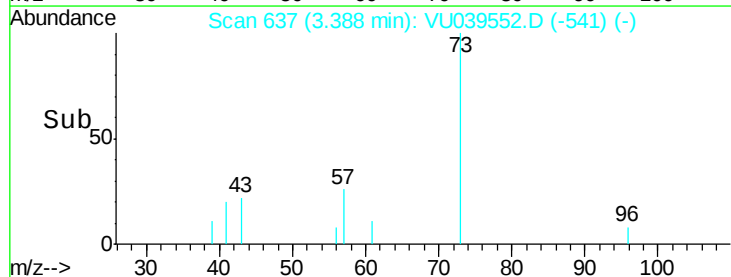
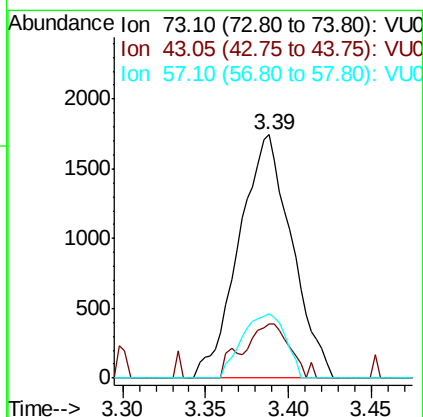
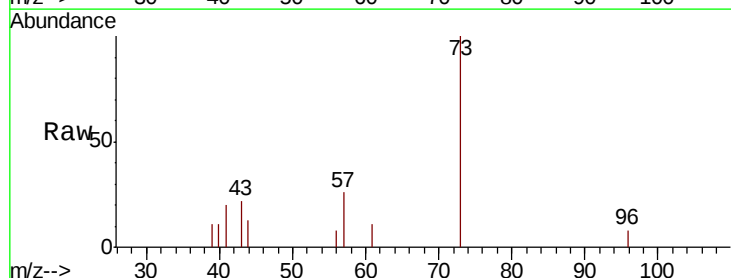
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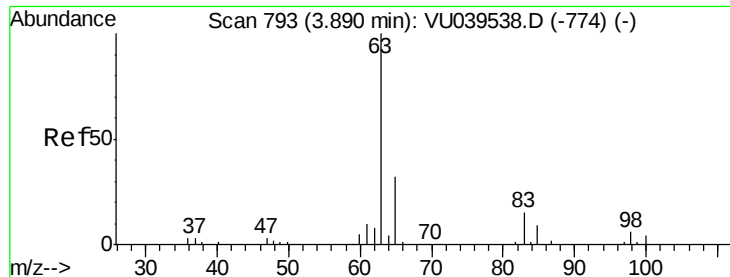
Tot Ion: 84 Resp: 435
Ion Ratio Lower Upper
84 100
86 58.7 43.5 80.9
49 142.7 91.1 169.1



#17
Methyl tert-butyl Ether
Concen: 0.234 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.01 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

Tgt Ion: 73 Resp: 3845
Ion Ratio Lower Upper
73 100
43 15.9 18.6 28.0#
57 21.9 17.9 26.9

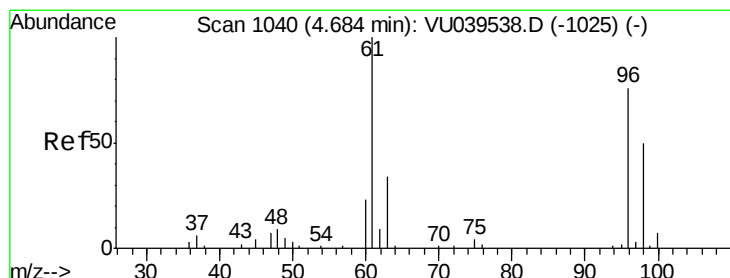
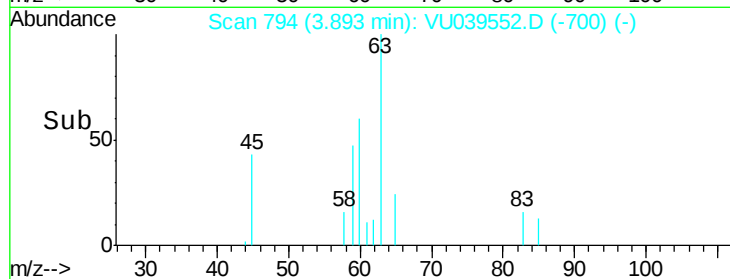
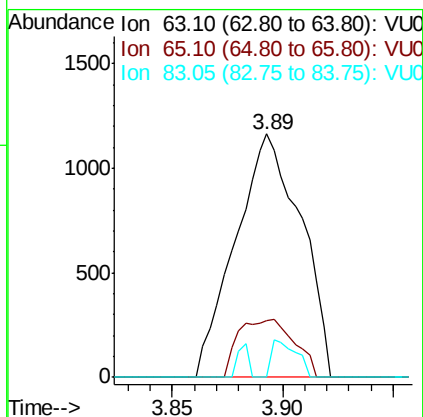
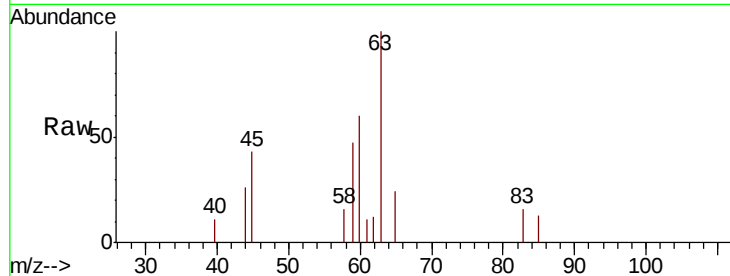




#19
 1,1-Dichloroethane
 Concen: 0.212 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU039552.D
 Acq: 17 Jul 2020 15:16

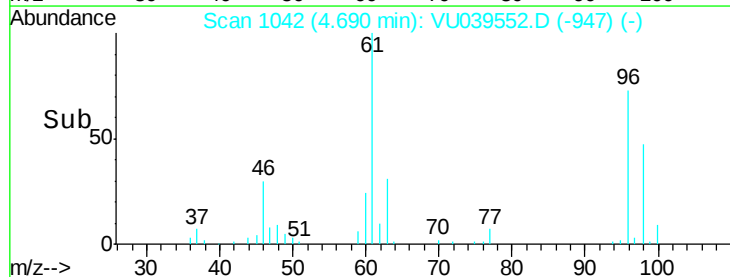
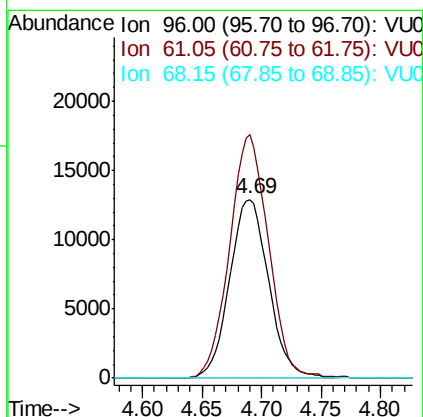
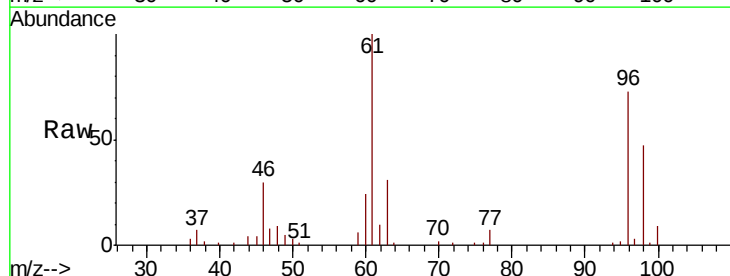
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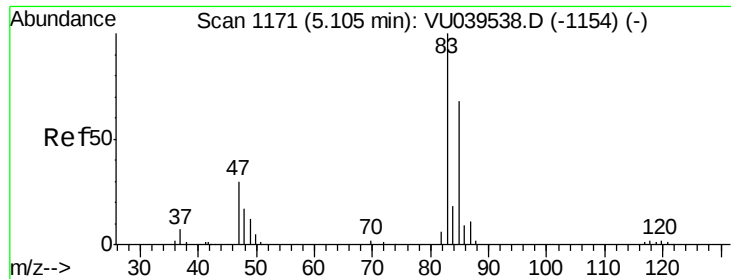
Tot Ion: 63 Resp: 2386
 Ion Ratio Lower Upper
 63 100
 65 23.5 23.0 42.6
 83 0.0 9.6 17.8#



#22
 cis-1,2-Dichloroethene
 Concen: 4.545 ug/L
 RT: 4.69 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: VU039552.D
 Acq: 17 Jul 2020 15:16

Tgt Ion: 96 Resp: 29366
 Ion Ratio Lower Upper
 96 100
 61 136.1 92.8 172.4
 68 0.0 0.0 0.0

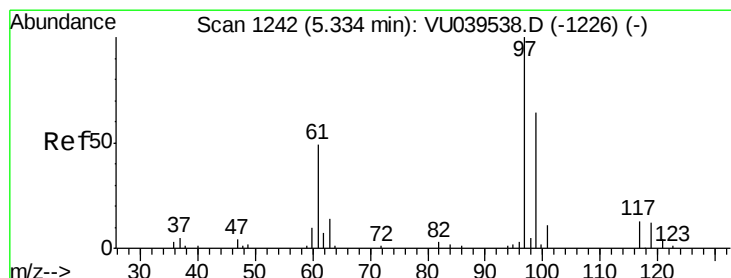
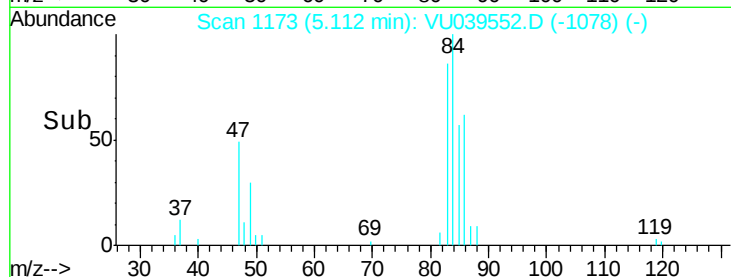
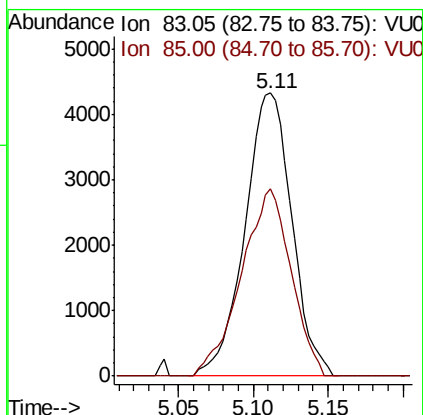
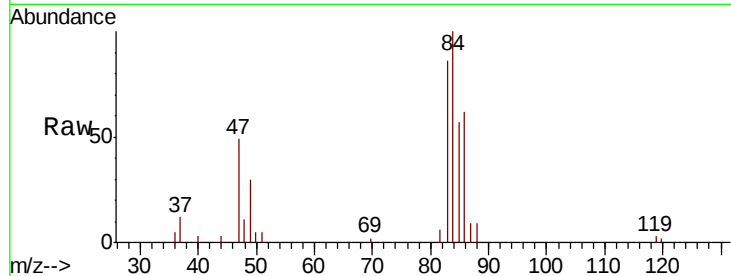




#25
Chloroform
Concen: 0.830 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

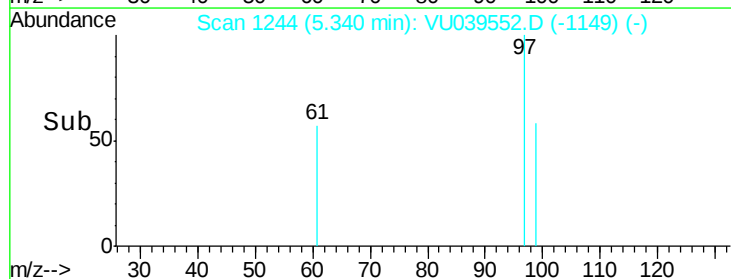
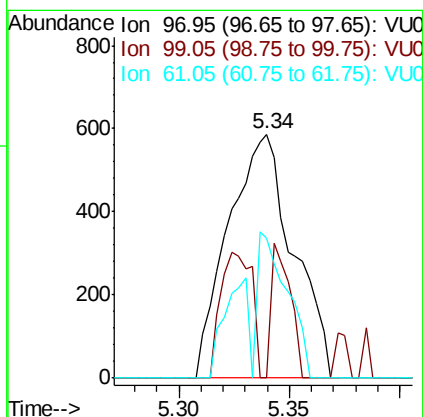
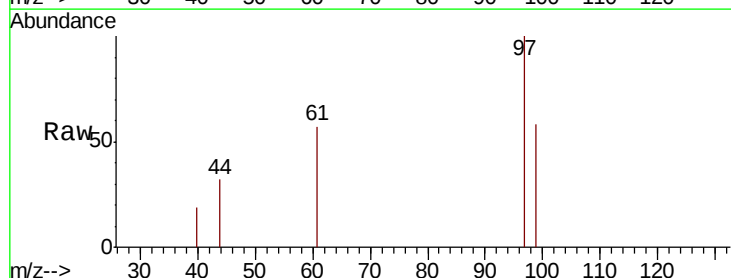
Instrument :
MSVOA_U
ClientSampleId :
BFT92

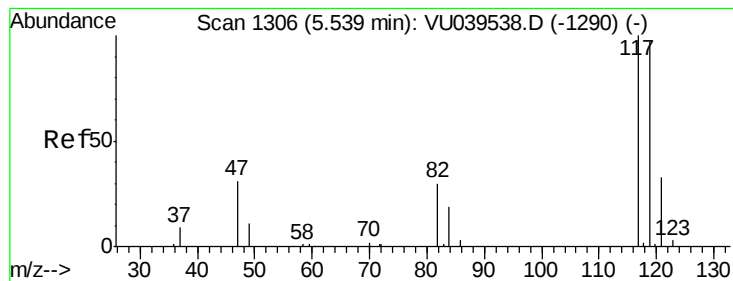
Tot Ion: 83 Resp: 9450
Ion Ratio Lower Upper
83 100
85 66.2 44.9 83.5



#29
1,1,1-Trichloroethane
Concen: 0.120 ug/L
RT: 5.34 min Scan# 1244
Delta R.T. 0.01 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

Tgt Ion: 97 Resp: 1194
Ion Ratio Lower Upper
97 100
99 16.2 52.6 79.0#
61 27.6 37.9 56.9#





#31

Carbon tetrachloride

Concen: 0.286 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Instrument :

MSVOA_U

ClientSampled :

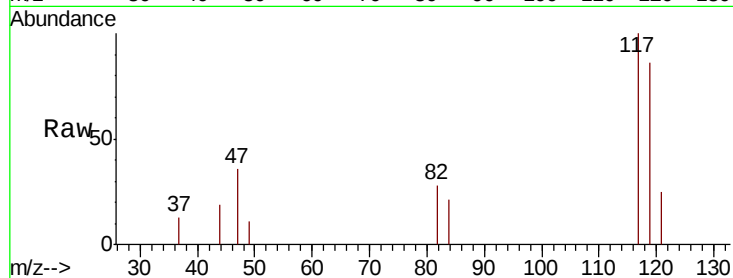
BFT92

Tot Ion:117 Resp: 2419

Ion Ratio Lower Upper

117 100

119 88.8 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

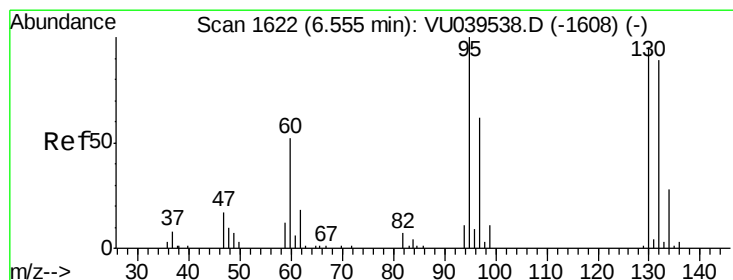
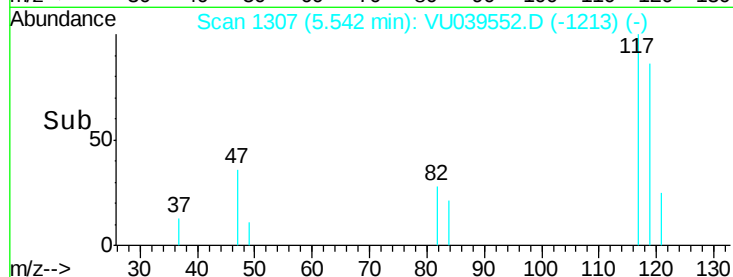
5.54

1000

500

0

Time-->



#34

Trichloroethene

Concen: 30.715 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. -0.00 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Tgt Ion: 95 Resp: 199998

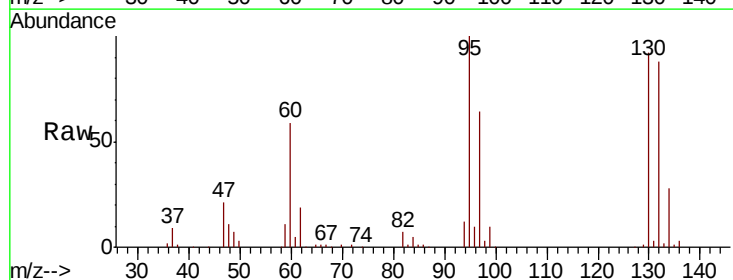
Ion Ratio Lower Upper

95 100

97 64.4 46.3 85.9

132 87.5 64.0 118.8

130 92.5 64.3 119.5



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

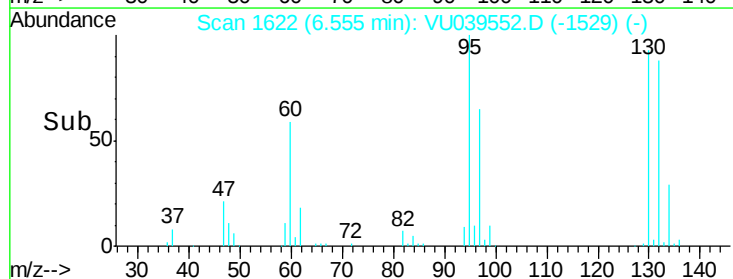
150000

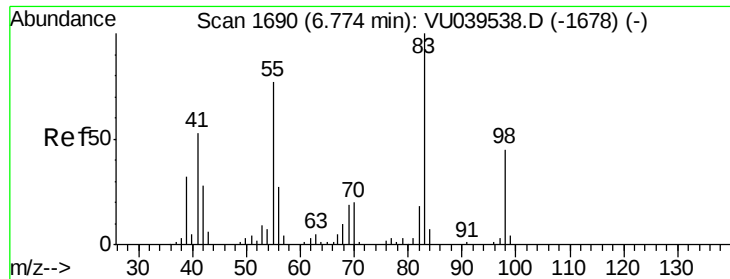
100000

50000

0

Time-->

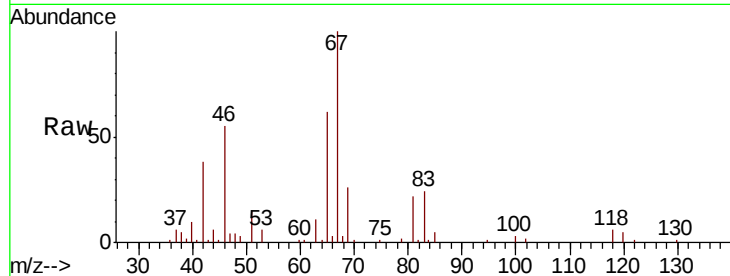




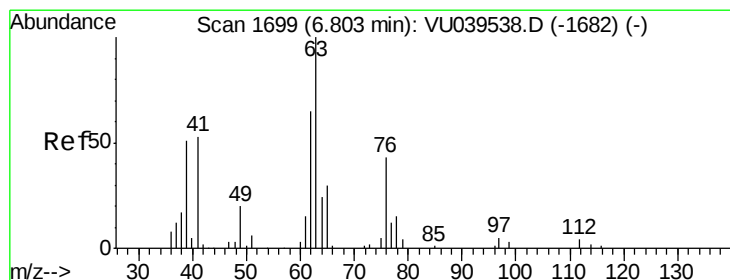
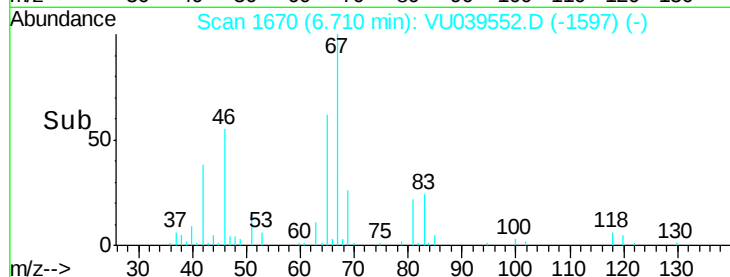
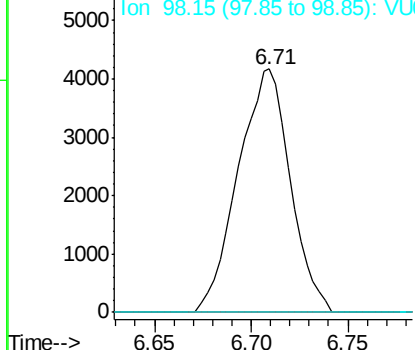
#35
Methylcyclohexane
Concen: 0.748 ug/L
RT: 6.71 min Scan# 1670
Delta R.T. -0.06 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

Instrument :
MSVOA_U
ClientSampleId :
BFT92

Tot Ion: 83 Resp: 7805
Ion Ratio Lower Upper
83 100
55 0.0 62.1 93.1#
98 0.0 35.9 53.9#

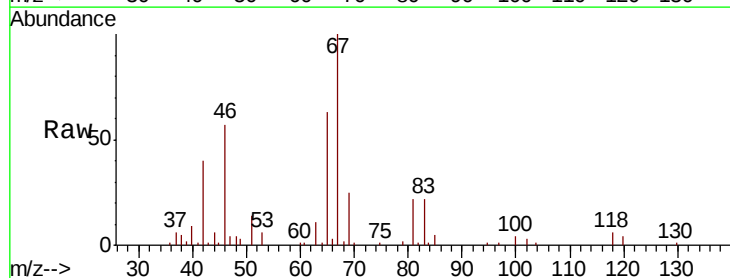


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

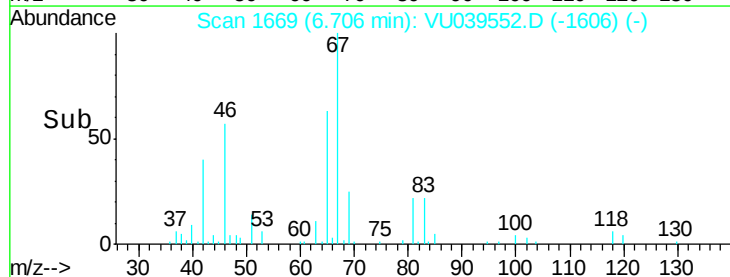
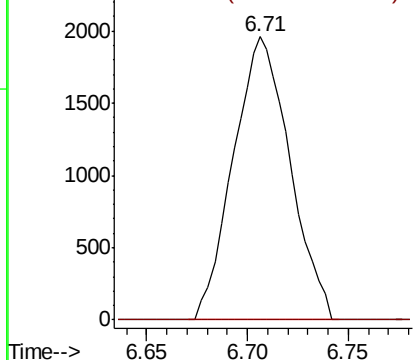


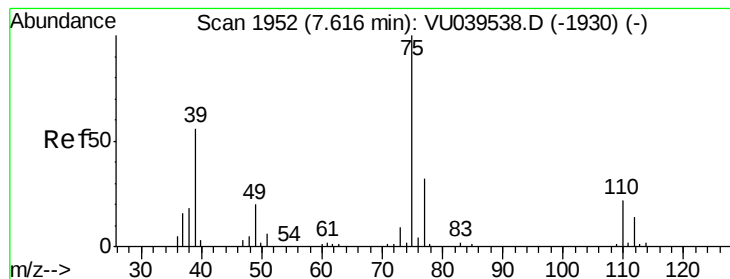
#37
1,2-Dichloropropane
Concen: 0.559 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.10 min
Lab File: VU039552.D
Acq: 17 Jul 2020 15:16

Tgt Ion: 63 Resp: 3839
Ion Ratio Lower Upper
63 100
112 0.0 2.5 3.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.135 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

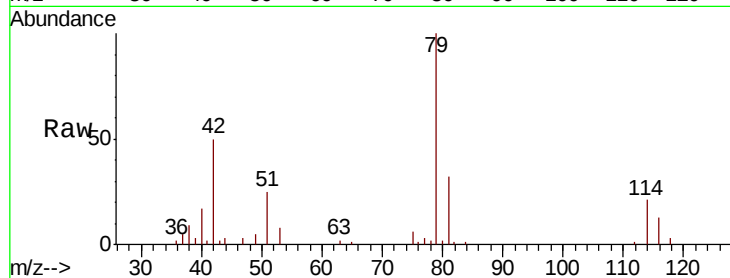
BFT92

Tot Ion: 75 Resp: 1405

Ion Ratio Lower Upper

75 100

77 47.3 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU039552.D (-1859) (-)

Ion 77.05 (76.75 to 77.75): VU039552.D (-1859) (-)

7.57

800

600

400

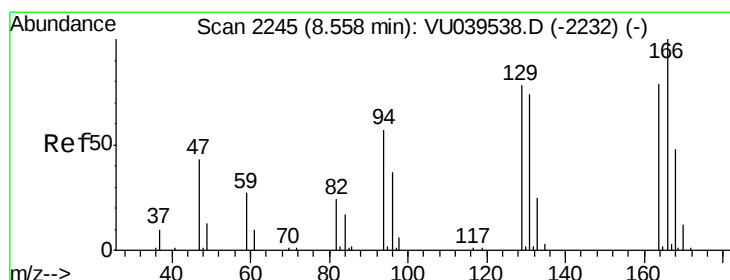
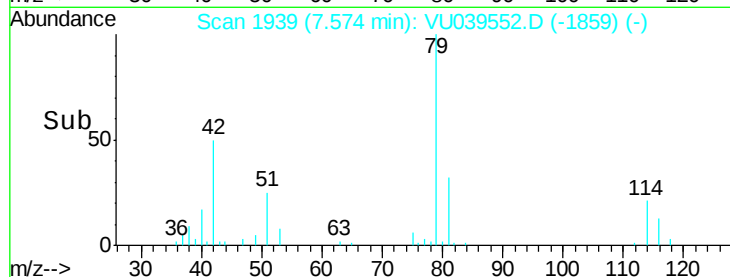
200

0

7.55

7.60

Time-->



#47

Tetrachloroethene

Concen: 0.637 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Tgt Ion: 164 Resp: 2885

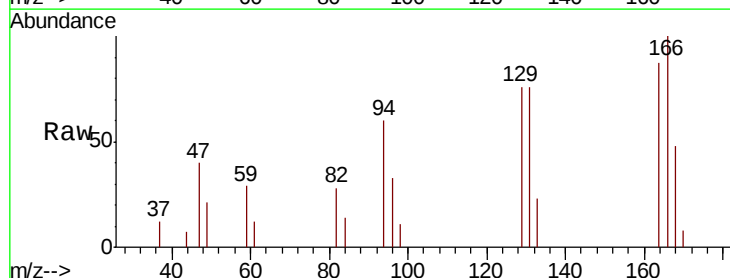
Ion Ratio Lower Upper

164 100

129 87.5 68.6 127.4

131 87.2 66.4 123.4

166 114.7 85.9 159.5



Abundance Ion 163.90 (163.60 to 164.60): VU039552.D (-2152) (-)

Ion 128.95 (128.65 to 129.65): VU039552.D (-2152) (-)

Ion 130.95 (130.65 to 131.65): VU039552.D (-2152) (-)

Ion 165.90 (165.60 to 166.60): VU039552.D (-2152) (-)

3000

2000

1000

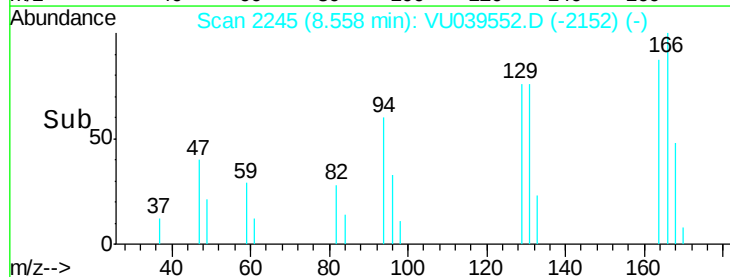
0

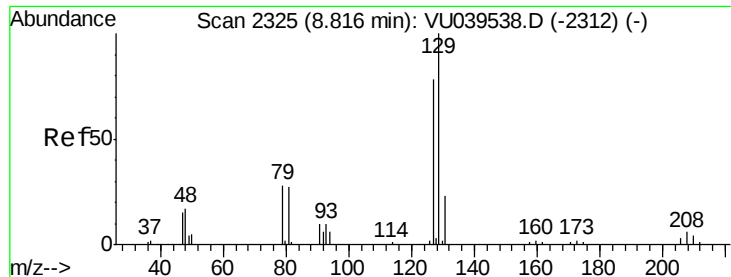
8.50

8.55

8.60

Time-->





#49

Dibromochloromethane

Concen: 0.431 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. -0.25 min

Lab File: VU039552.D

Acq: 17 Jul 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

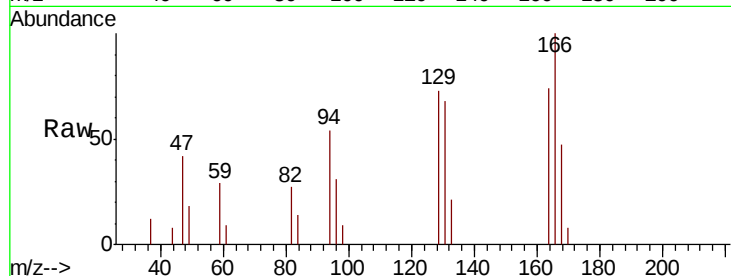
BFT92

Tot Ion:129 Resp: 2576

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

1500

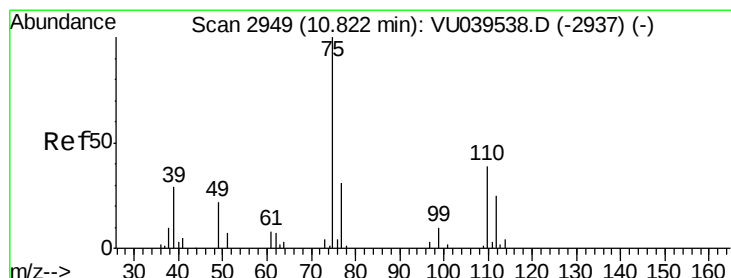
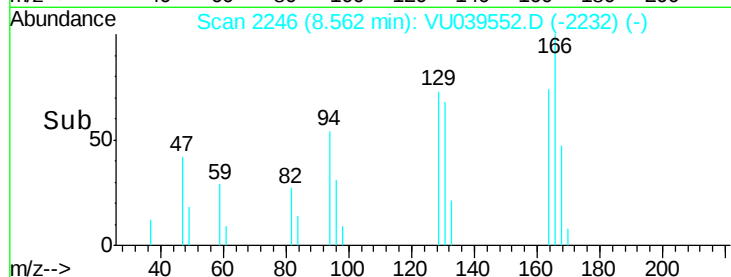
1000

500

0

8.55 8.60

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.224 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU039552.D

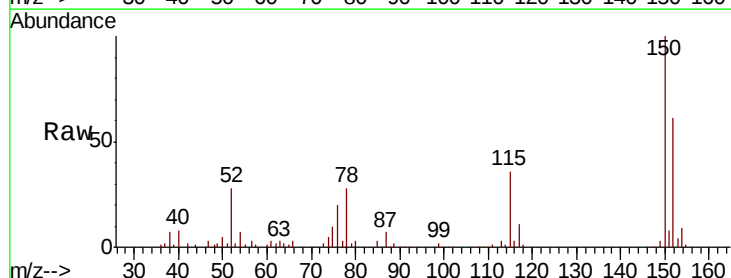
Acq: 17 Jul 2020 15:16

Tgt Ion: 75 Resp: 6193

Ion Ratio Lower Upper

75 100

77 34.7 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

4000

3000

2000

1000

0

11.75 11.80 11.85

Time-->

