

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031120\
 Data File : VU037153.D
 Acq On : 10 Mar 2020 15:52
 Operator : JC/MD
 Sample : VSTD0.505
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

Quant Time: Mar 11 08:56:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Mar 11 08:42:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	121498	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	120701	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	51178	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	3789	0.38	ug/L	0.00
7) Chloroethane-d5	1.93	69	3014	0.36	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	8250	0.47	ug/L	0.00
20) 2-Butanone-d5	4.70	46	9073	4.21	ug/L	0.01
24) Chloroform-d	5.10	84	7920	0.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	4729	0.51	ug/L	0.00
32) Benzene-d6	5.76	84	14872	0.42	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	5079	0.45	ug/L	0.00
41) Toluene-d8	7.93	98	12895	0.39	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	1632	0.36	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	5883	2.94	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	4035	0.45	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	4581	0.46	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	7692	0.800 ug/L	94
3) Chloromethane	1.53	50	6697	0.715 ug/L	93
5) Vinyl chloride	1.62	62	6137	0.595 ug/L	97
6) Bromomethane	1.87	94	2209	0.389 ug/L	94
8) Chloroethane	1.95	64	3933	0.579 ug/L #	81
9) Trichlorofluoromethane	2.16	101	8537	0.619 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4234	0.500 ug/L	97
12) 1,1-Dichloroethene	2.60	96	3810	0.501 ug/L	89
13) Acetone	2.69	43	7175	2.742 ug/L	74
14) Carbon disulfide	2.82	76	12950	0.651 ug/L #	95
15) Methyl Acetate	3.00	43	1841	0.487 ug/L #	85
16) Methylene chloride	3.08	84	5197	0.419 ug/L	87
17) Methyl tert-butyl Ether	3.41	73	10058	0.457 ug/L #	89
18) trans-1,2-Dichloroethene	3.39	96	3909	0.493 ug/L	77
19) 1,1-Dichloroethane	3.91	63	8415	0.515 ug/L	97
21) 2-Butanone	4.77	43	11045	3.469 ug/L	78
22) cis-1,2-Dichloroethene	4.71	96	4496	0.482 ug/L	92
23) Bromochloromethane	5.01	128	1810	0.478 ug/L #	88
25) Chloroform	5.13	83	9433	0.535 ug/L	99
27) 1,2-Dichloroethane	5.83	62	6203	0.545 ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	7409	0.533 ug/L	95
30) Cyclohexane	5.42	56	6735	0.464 ug/L #	89
31) Carbon tetrachloride	5.56	117	6315	0.555 ug/L	97
33) Benzene	5.81	78	17145	0.455 ug/L	100
34) Trichloroethene	6.57	95	4651	0.480 ug/L	92
35) Methylcyclohexane	6.79	83	6588	0.432 ug/L	95
37) 1,2-Dichloropropane	6.83	63	4260	0.418 ug/L #	88
38) Bromodichloromethane	7.14	83	5461	0.440 ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	5668	0.387 ug/L	94
40) 4-Methyl-2-pentanone	7.83	43	29010	4.348 ug/L	98

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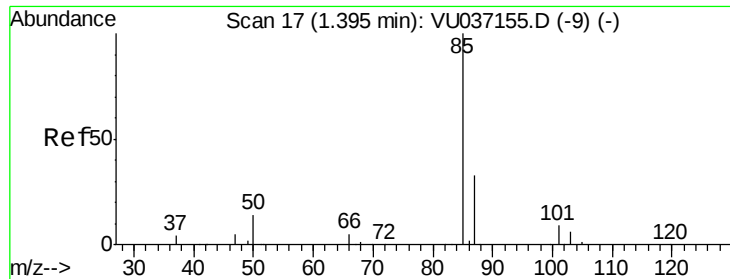
Instrument :
 MSVOA_U
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Quant Time: Mar 11 08:56:46 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	8.00	91	16586	0.408	ug/L	89
44) trans-1,3-Dichloropropene	8.24	75	4519	0.389	ug/L #	76
45) 1,1,2-Trichloroethane	8.43	97	3217	0.451	ug/L	88
47) Tetrachloroethene	8.58	164	3806	0.561	ug/L	88
48) 2-Hexanone	8.72	43	17043	3.079	ug/L	96
49) Dibromochloromethane	8.84	129	3619	0.475	ug/L	96
50) 1,2-Dibromoethane	8.95	107	2809	0.430	ug/L #	89
51) Chlorobenzene	9.47	112	11935	0.477	ug/L	94
52) Ethylbenzene	9.59	91	17762	0.393	ug/L	97
53) m,p-Xylene	9.72	106	5808	0.350	ug/L	97
54) o-Xylene	10.12	106	5831	0.361	ug/L	90
55) Styrene	10.14	104	9569	0.351	ug/L	96
56) Isopropylbenzene	10.50	105	15453	0.355	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.81	83	3484	0.376	ug/L #	80
59) 1,2,3-Trichloropropane	10.84	75	3500	0.516	ug/L	95
61) Bromoform	10.31	173	1731	0.477	ug/L #	91
62) 1,3-Dichlorobenzene	11.76	146	8153	0.462	ug/L	96
63) 1,4-Dichlorobenzene	11.85	146	8459	0.486	ug/L	96
65) 1,2-Dichlorobenzene	12.23	146	7715	0.456	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.02	75	506	0.403	ug/L #	75
67) 1,3,5-Trichlorobenzene	13.25	180	5166	0.419	ug/L	92
68) 1,2,4-trichlorobenzene	13.88	180	2846	0.314	ug/L	85
69) Naphthalene	14.12	128	2796	0.178	ug/L #	83
70) 1,2,3-Trichlorobenzene	14.37	180	2673	0.326	ug/L #	86

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



#2

Dichlorodifluoromethane

Concen: 0.800 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

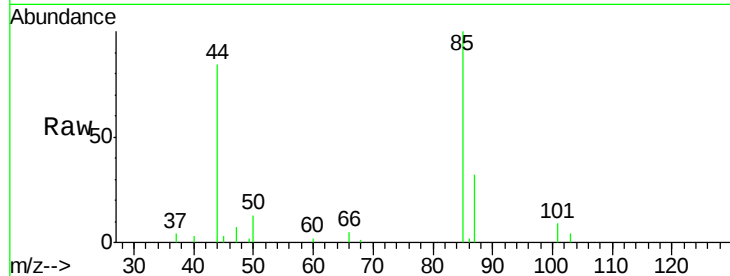
VSTD0.505

Tgt Ion: 85 Resp: 7692

Ion Ratio Lower Upper

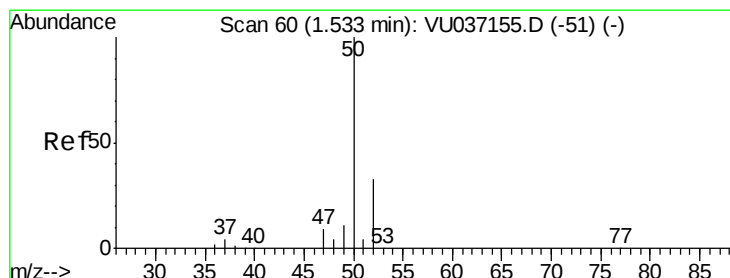
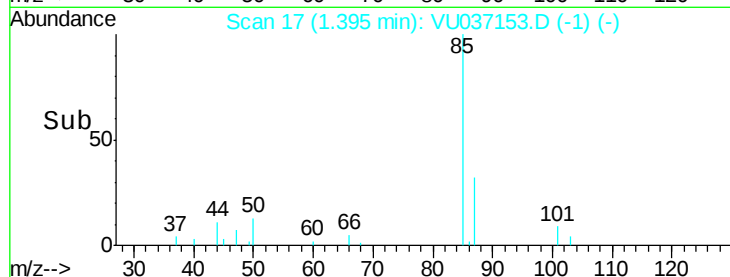
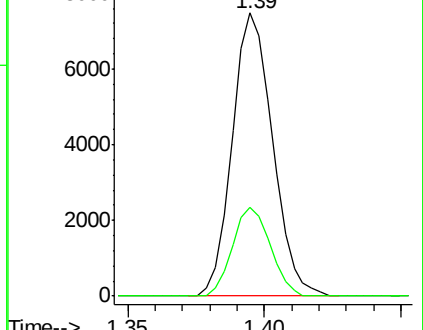
85 100

87 29.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037153.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037153.D (-9) (-)



#3

Chloromethane

Concen: 0.715 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037153.D

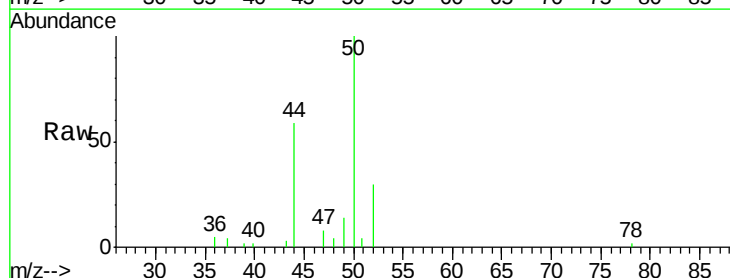
Acq: 10 Mar 2020 15:52

Tgt Ion: 50 Resp: 6697

Ion Ratio Lower Upper

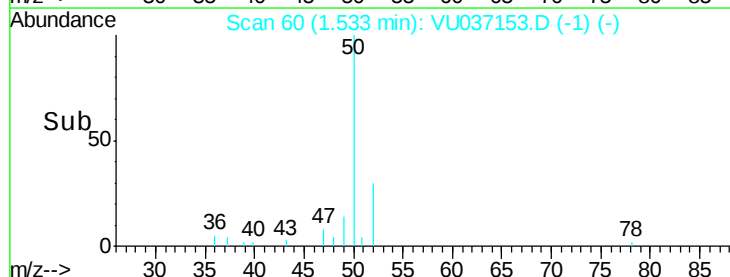
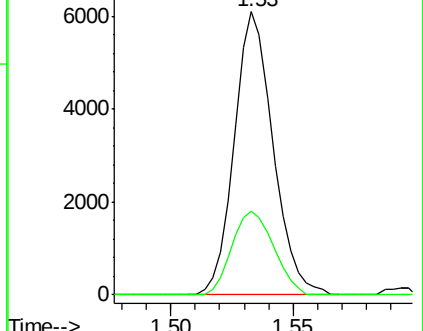
50 100

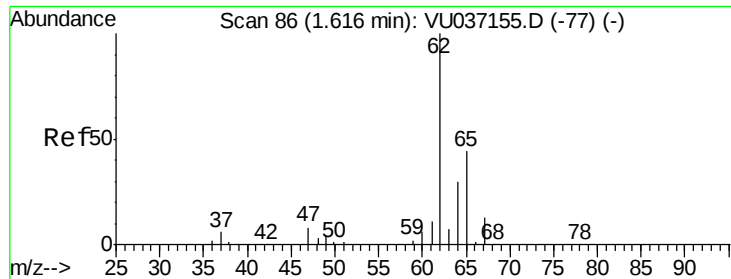
52 29.5 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU037153.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU037153.D (-51) (-)





#5

Vinyl chloride

Concen: 0.595 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

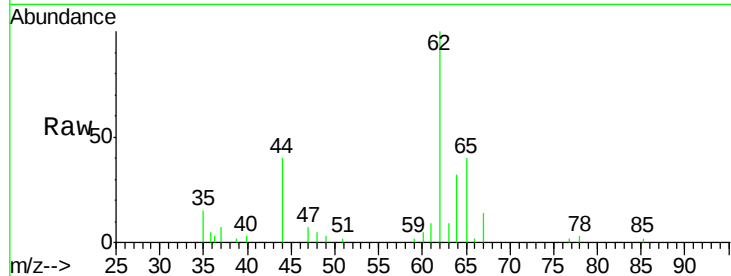
VSTD0.505

Tgt Ion: 62 Resp: 6137

Ion Ratio Lower Upper

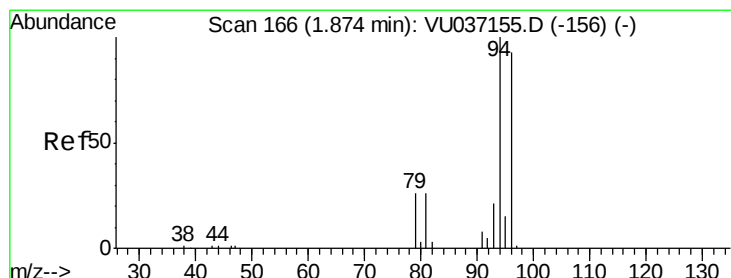
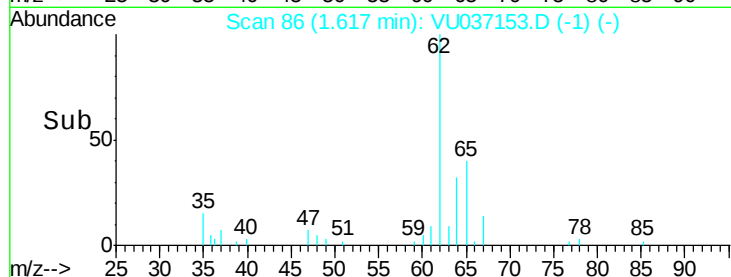
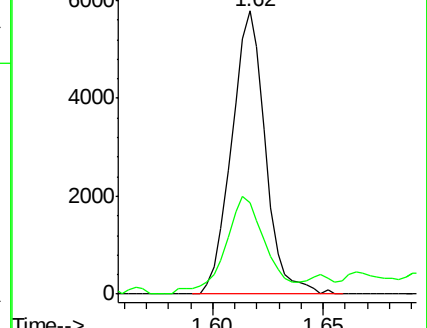
62 100

64 32.2 21.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VU037153.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037153.D (-77) (-)



#6

Bromomethane

Concen: 0.389 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037153.D

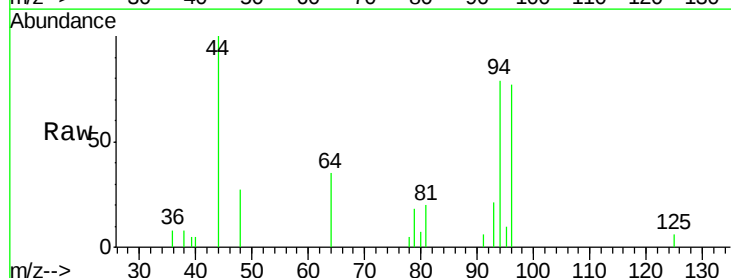
Acq: 10 Mar 2020 15:52

Tgt Ion: 94 Resp: 2209

Ion Ratio Lower Upper

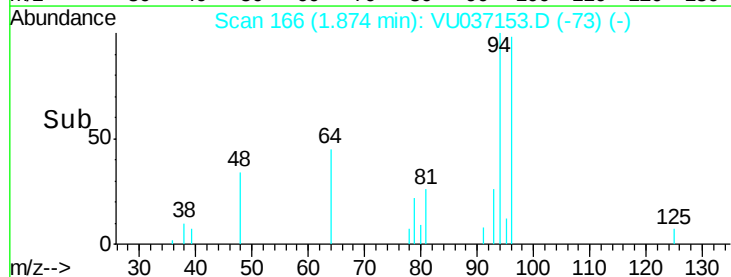
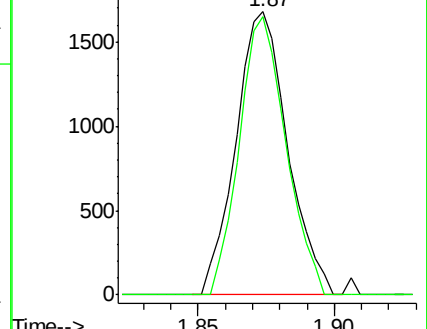
94 100

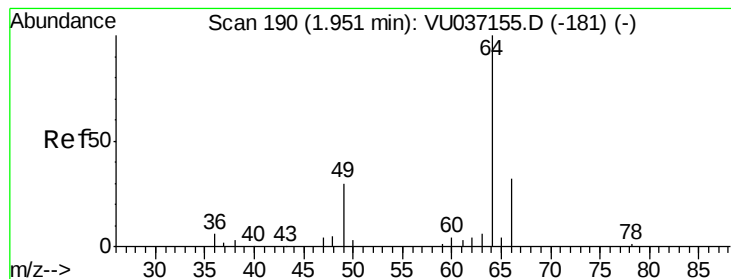
96 98.3 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU037153.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU037153.D (-156) (-)





#8

Chloroethane

Concen: 0.579 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

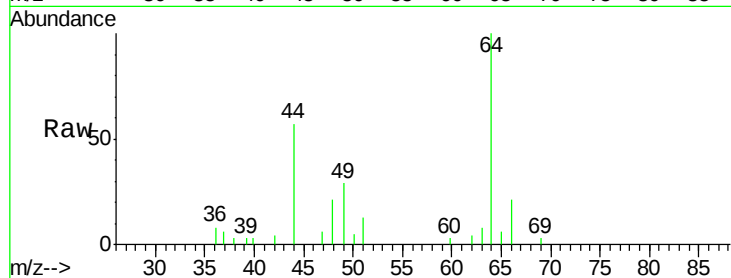
VSTD0.505

Tgt Ion: 64 Resp: 3933

Ion Ratio Lower Upper

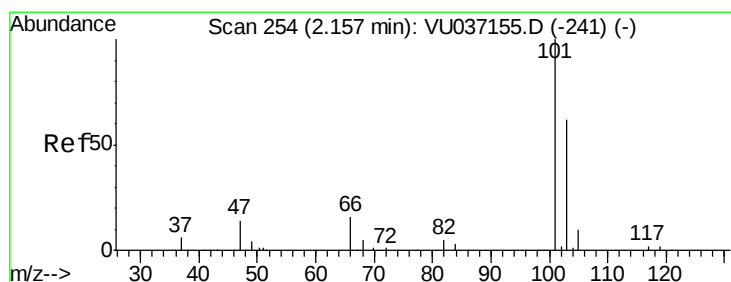
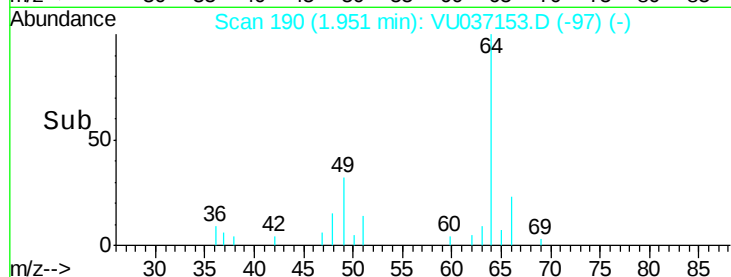
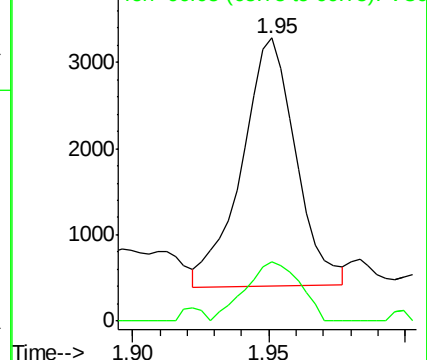
64 100

66 21.1 22.0 40.8#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 0.619 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037153.D

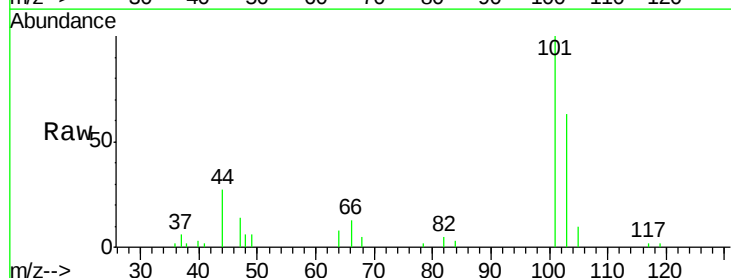
Acq: 10 Mar 2020 15:52

Tgt Ion: 101 Resp: 8537

Ion Ratio Lower Upper

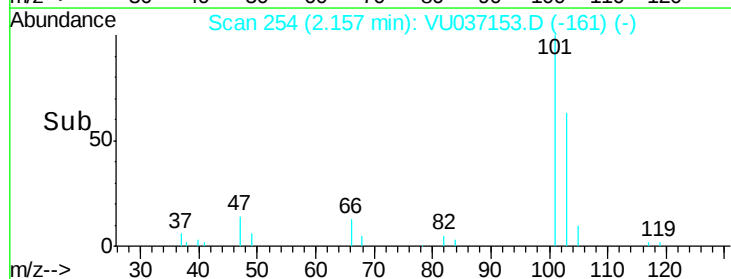
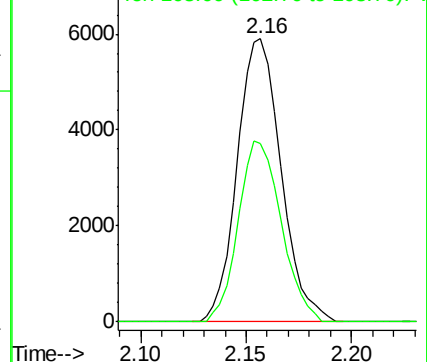
101 100

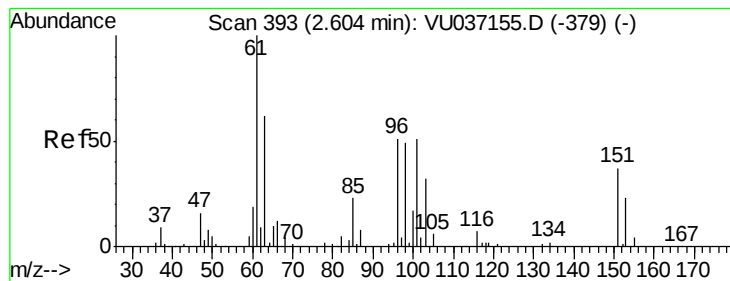
103 62.4 50.2 75.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.500 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

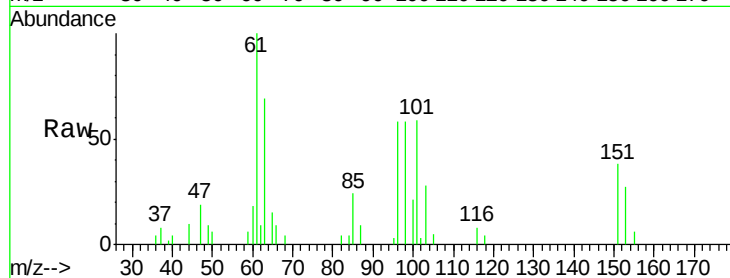
Tgt Ion:101 Resp: 4234

Ion Ratio Lower Upper

101 100

85 47.7 37.5 56.3

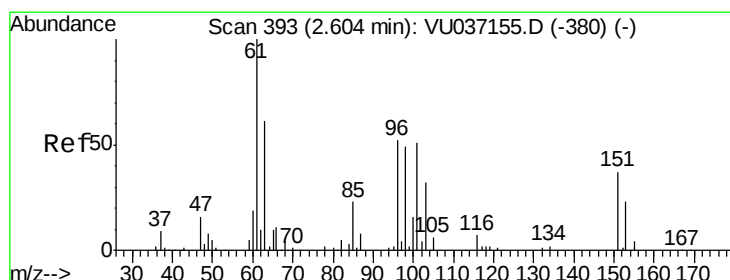
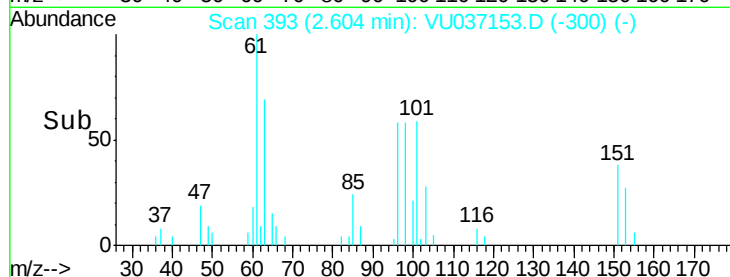
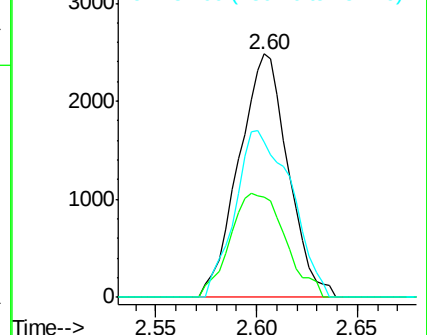
151 78.4 59.8 89.6



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: 0.501 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

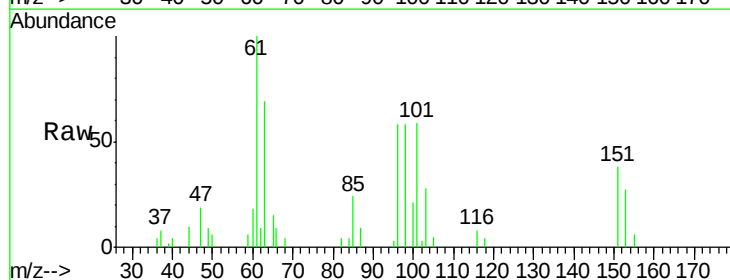
Tgt Ion: 96 Resp: 3810

Ion Ratio Lower Upper

96 100

61 172.5 136.4 253.2

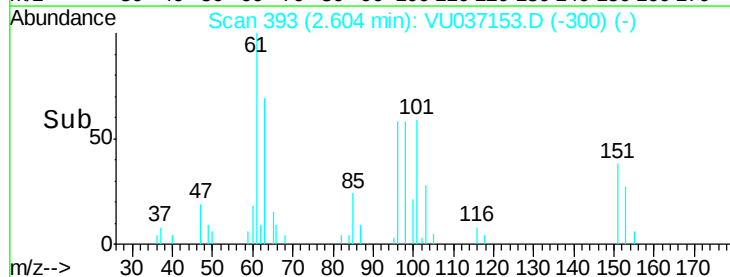
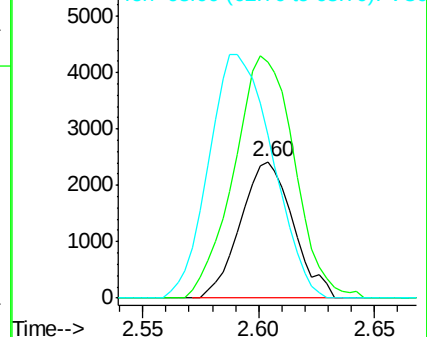
63 118.9 86.2 160.0

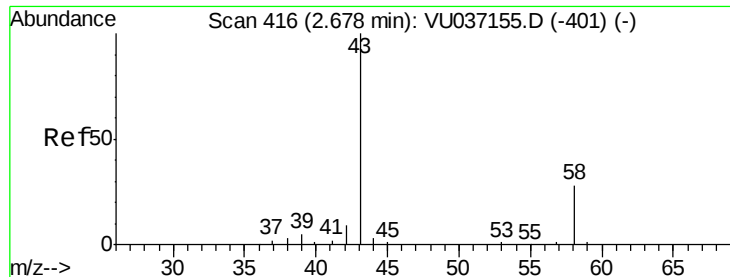


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.742 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

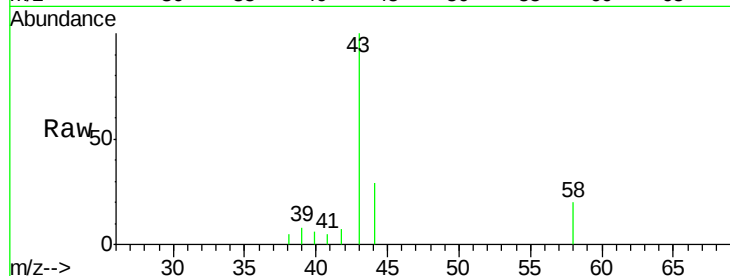
VSTD0.505

Tgt Ion: 43 Resp: 7175

Ion Ratio Lower Upper

43 100

58 12.7 0.0 52.2



Abundance Ion 43.05 (42.75 to 43.75): VU037153.D (-401) (-)

Ion 58.05 (57.75 to 58.75): VU037153.D (-401) (-)

2.69

2500

2000

1500

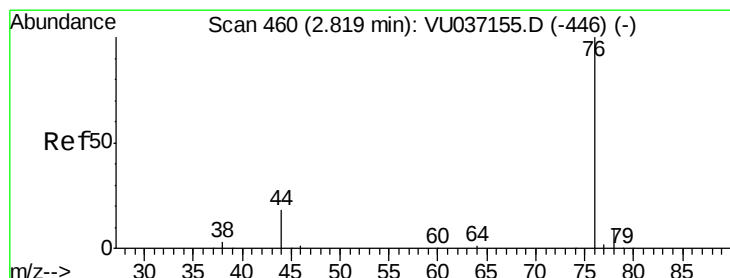
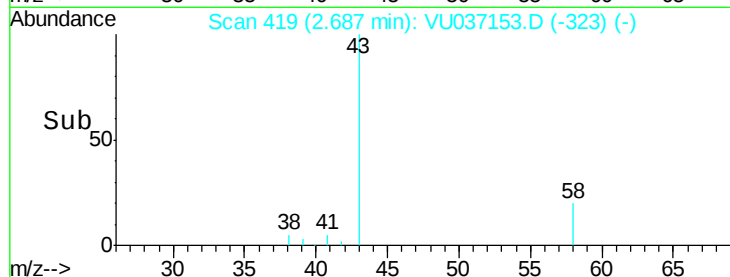
1000

500

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 0.651 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037153.D

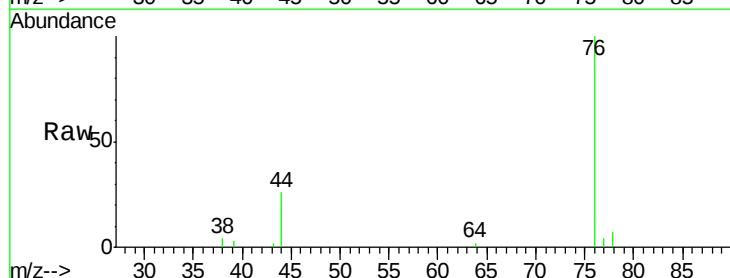
Acq: 10 Mar 2020 15:52

Tgt Ion: 76 Resp: 12950

Ion Ratio Lower Upper

76 100

78 6.8 6.9 10.3#



Abundance Ion 76.05 (75.75 to 76.75): VU037153.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037153.D (-446) (-)

2.82

8000

6000

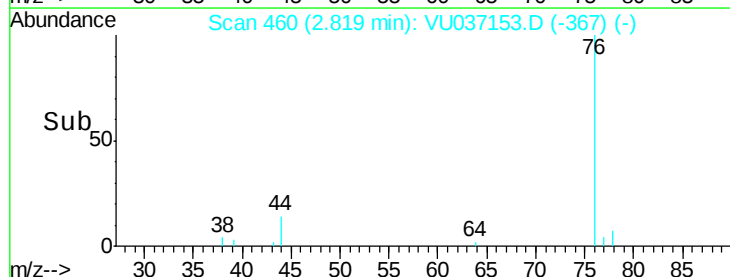
4000

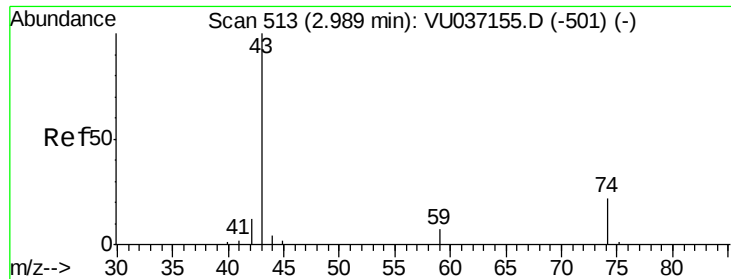
2000

0

Time-->

2.75 2.80 2.85 2.90





#15

Methyl Acetate

Concen: 0.487 ug/L

RT: 3.00 min Scan# 515

Delta R.T. 0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

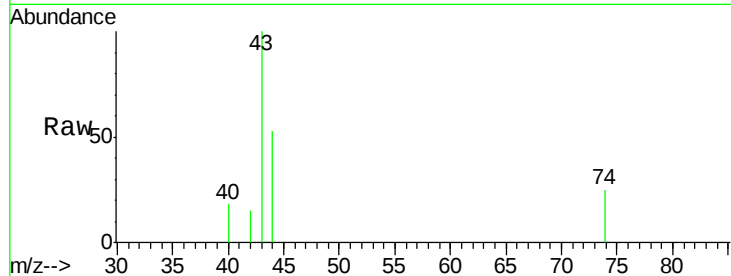
VSTD0.505

Tgt Ion: 43 Resp: 1841

Ion Ratio Lower Upper

43 100

74 14.4 17.1 25.7#



Abundance Ion 43.05 (42.75 to 43.75): VU037153.D (-501) (-)

Ion 74.05 (73.75 to 74.75): VU037153.D (-501) (-)

3.00

800

600

400

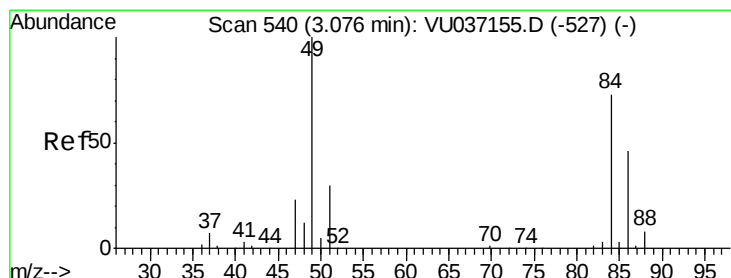
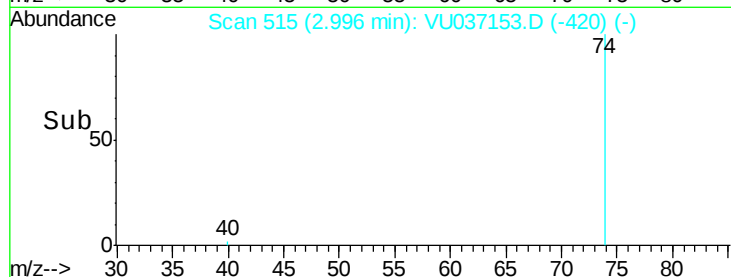
200

0

2.95

3.00

Time-->



#16

Methylene chloride

Concen: 0.419 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

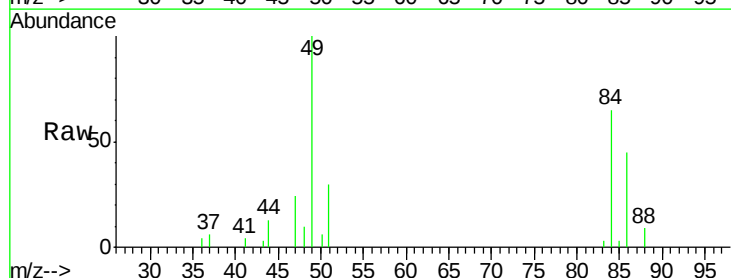
Tgt Ion: 84 Resp: 5197

Ion Ratio Lower Upper

84 100

86 69.7 44.3 82.3

49 155.0 95.3 177.1



Abundance Ion 84.05 (83.75 to 84.75): VU037153.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU037153.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU037153.D (-527) (-)

5000

4000

3000

2000

1000

0

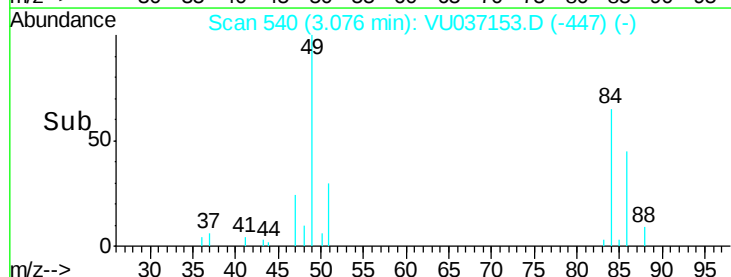
3.00

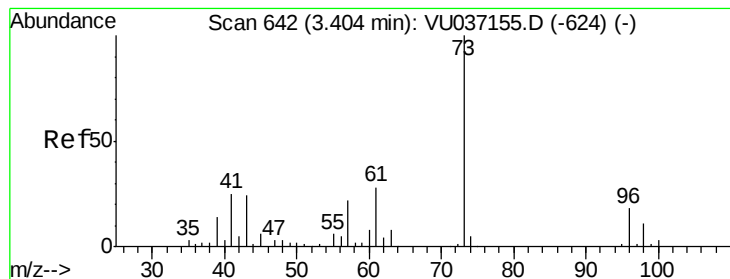
3.05

3.10

3.15

Time-->





#17

Methyl tert-butyl Ether

Concen: 0.457 ug/L

RT: 3.41 min Scan# 643

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

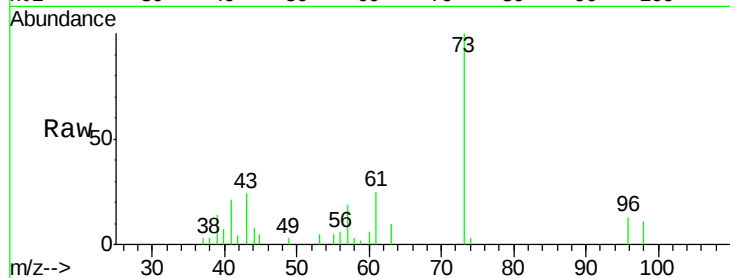
Tgt Ion: 73 Resp: 10058

Ion Ratio Lower Upper

73 100

43 16.9 21.1 31.7#

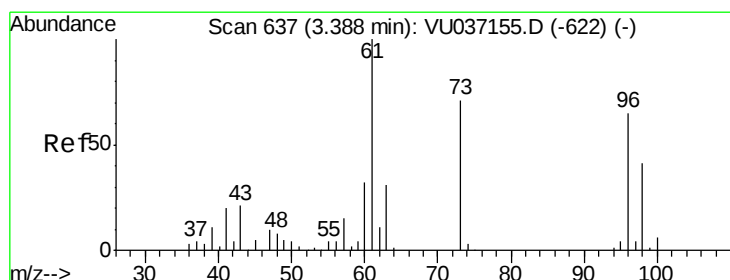
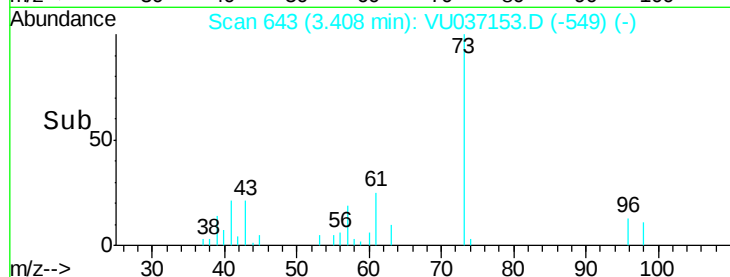
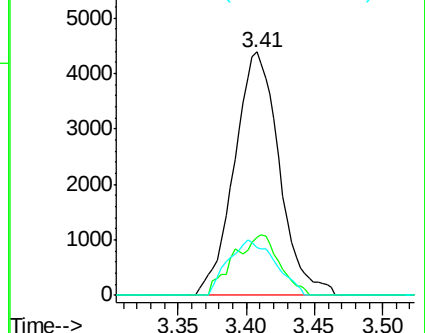
57 23.8 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VU037153.D (-624) (-)

Ion 43.05 (42.75 to 43.75): VU037153.D (-624) (-)

Ion 57.10 (56.80 to 57.80): VU037153.D (-624) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.493 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

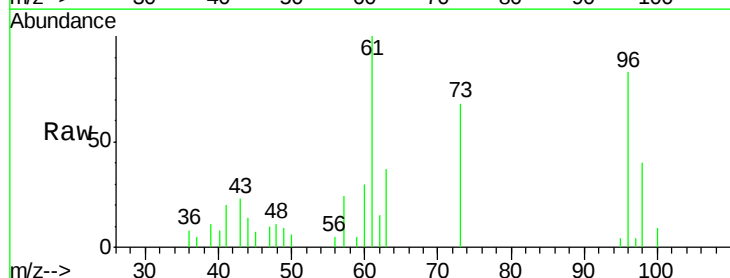
Tgt Ion: 96 Resp: 3909

Ion Ratio Lower Upper

96 100

61 121.1 107.2 199.2

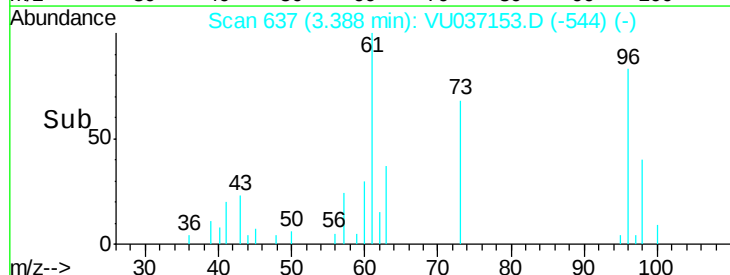
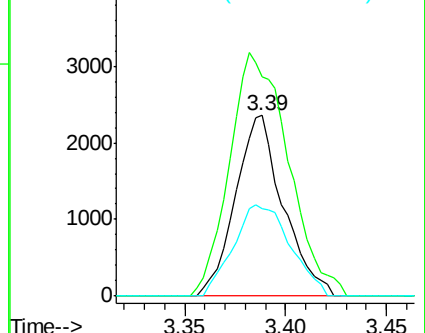
98 48.4 43.6 81.0

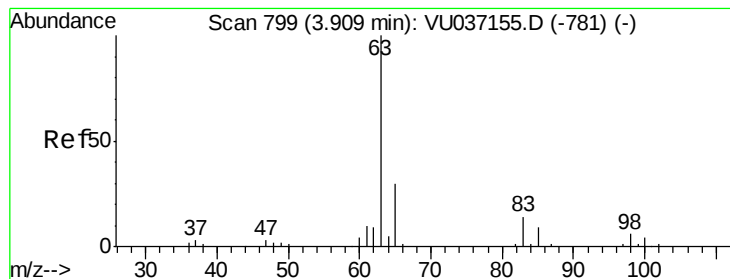


Abundance Ion 96.00 (95.70 to 96.70): VU037153.D (-622) (-)

Ion 61.05 (60.75 to 61.75): VU037153.D (-622) (-)

Ion 97.95 (97.65 to 98.65): VU037153.D (-622) (-)





#19

1,1-Dichloroethane

Concen: 0.515 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

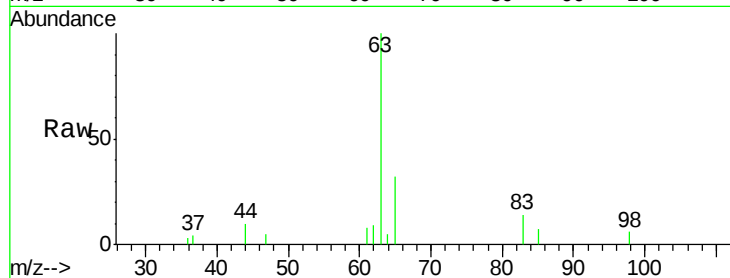
Tgt Ion: 63 Resp: 8415

Ion Ratio Lower Upper

63 100

65 32.3 21.3 39.5

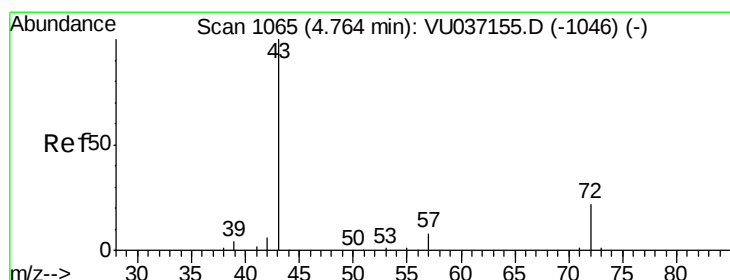
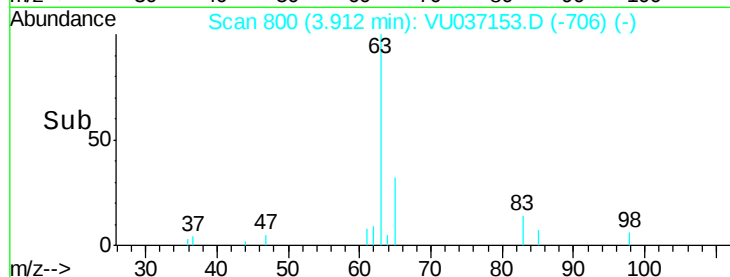
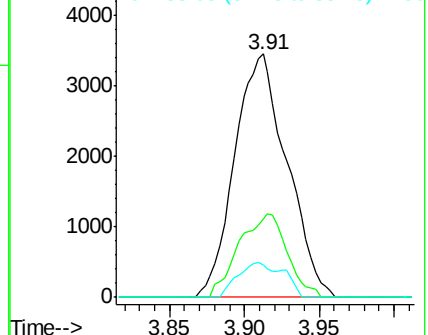
83 13.5 10.0 18.6



Abundance Ion 63.10 (62.80 to 63.80): VU037153.D (-781) (-)

Ion 65.10 (64.80 to 65.80): VU037153.D (-781) (-)

Ion 83.05 (82.75 to 83.75): VU037153.D (-781) (-)



#21

2-Butanone

Concen: 3.469 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VU037153.D

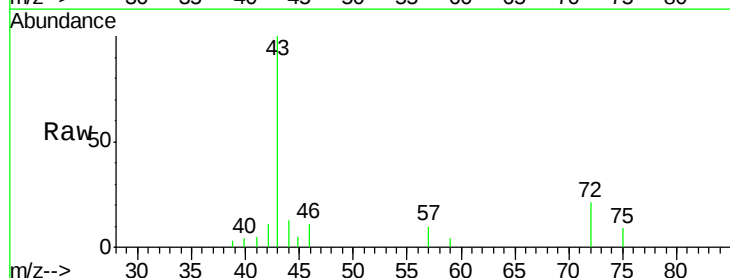
Acq: 10 Mar 2020 15:52

Tgt Ion: 43 Resp: 11045

Ion Ratio Lower Upper

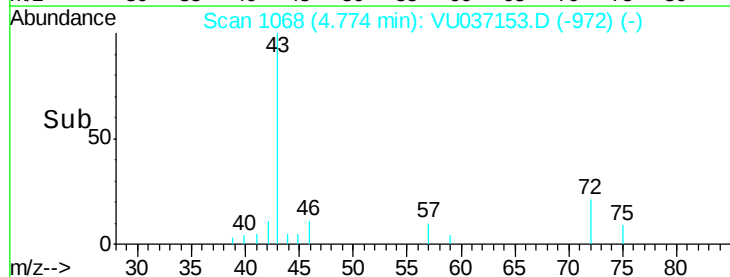
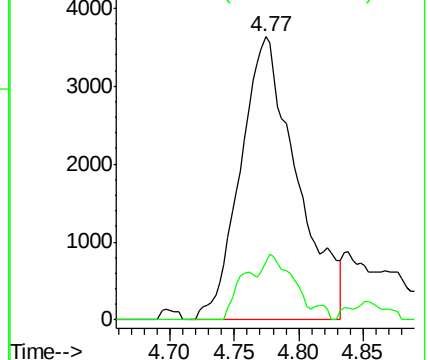
43 100

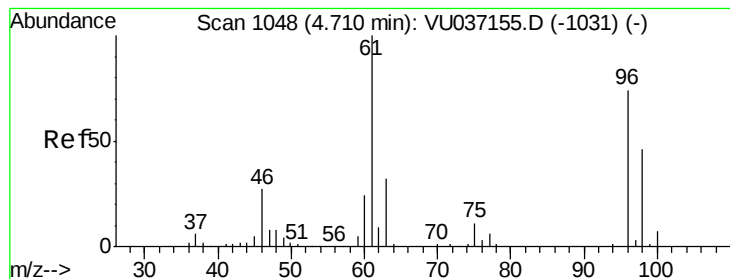
72 12.6 11.6 34.7



Abundance Ion 43.05 (42.75 to 43.75): VU037153.D (-1046) (-)

Ion 72.10 (71.80 to 72.80): VU037153.D (-1046) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.482 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

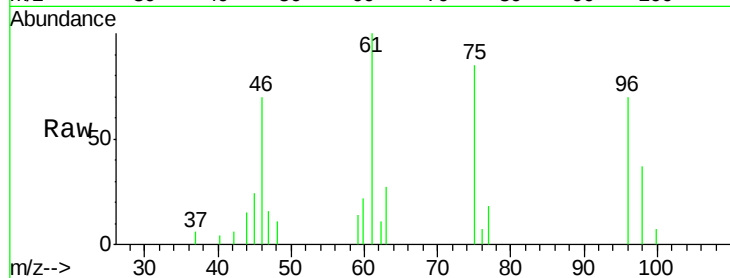
Tgt Ion: 96 Resp: 4496

Ion Ratio Lower Upper

96 100

61 143.8 94.1 174.8

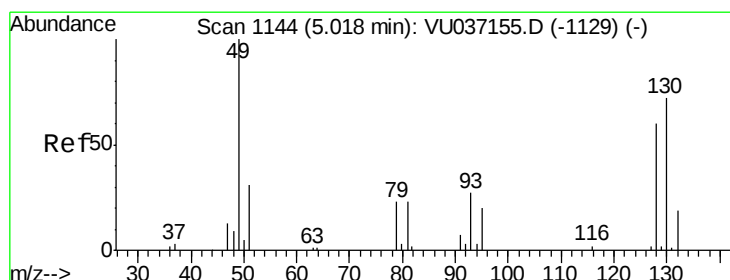
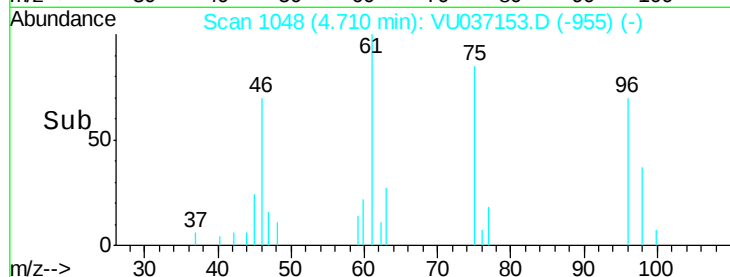
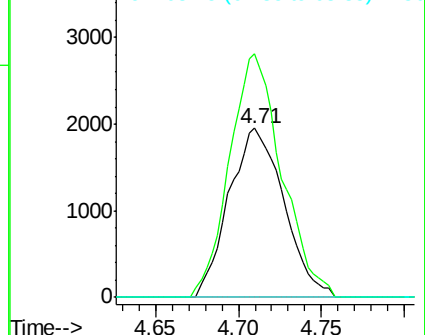
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037153.D (-1031) (-)

Ion 61.05 (60.75 to 61.75): VU037153.D (-1031) (-)

Ion 68.15 (67.85 to 68.85): VU037153.D (-1031) (-)



#23

Bromochloromethane

Concen: 0.478 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Tgt Ion: 128 Resp: 1810

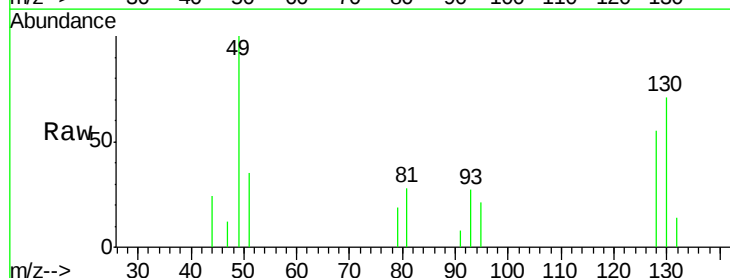
Ion Ratio Lower Upper

128 100

49 183.0 115.7 214.9

130 129.5 83.1 154.3

51 64.6 42.5 63.7#

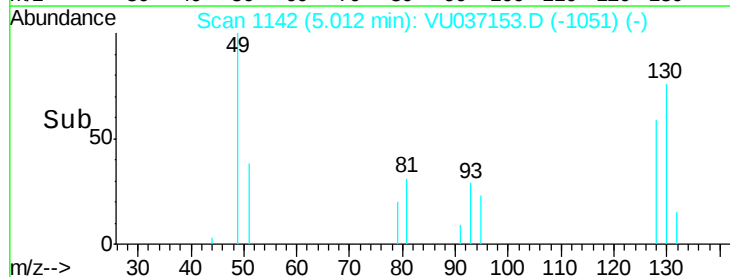
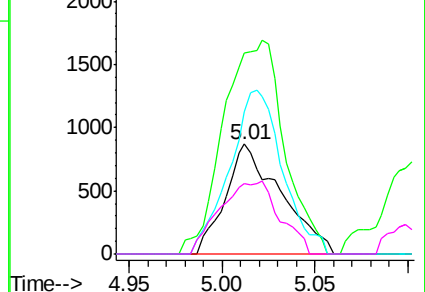


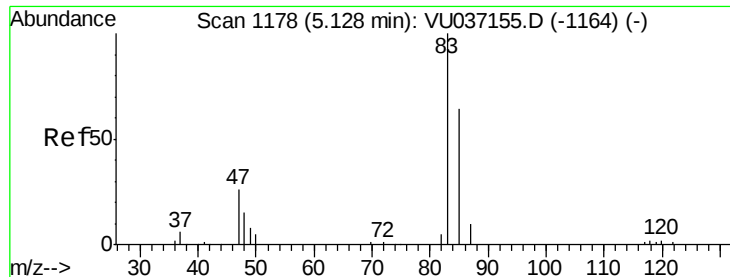
Abundance Ion 127.90 (127.60 to 128.60): VU037153.D (-1129) (-)

Ion 49.10 (48.80 to 49.80): VU037153.D (-1129) (-)

Ion 129.95 (129.65 to 130.65): VU037153.D (-1129) (-)

Ion 51.05 (50.75 to 51.75): VU037153.D (-1129) (-)

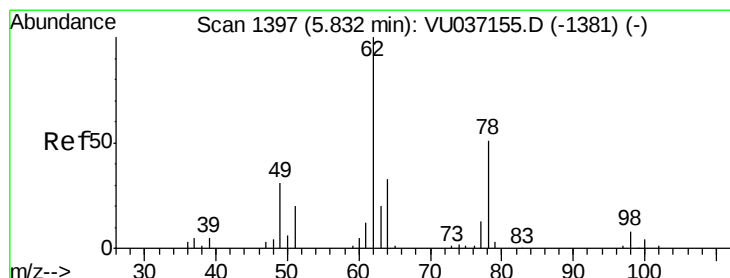
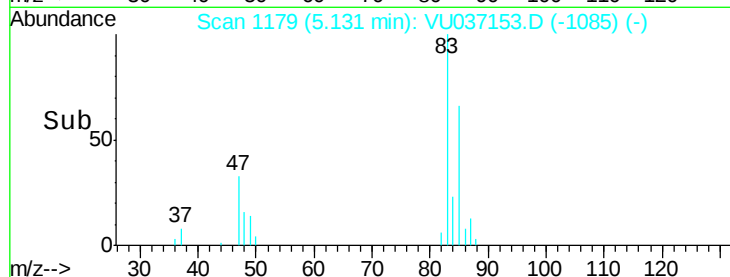
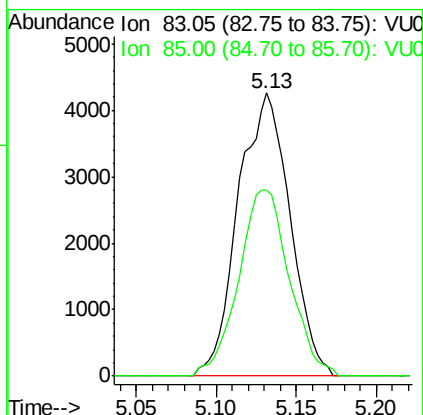
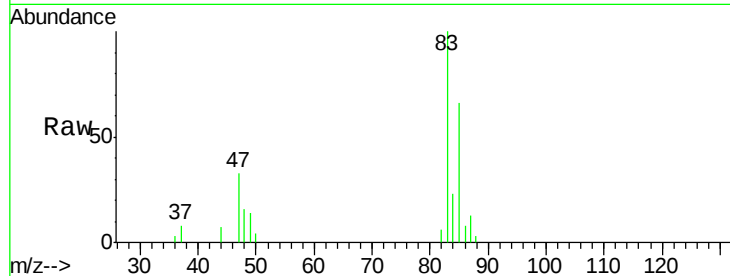




#25
Chloroform
Concen: 0.535 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

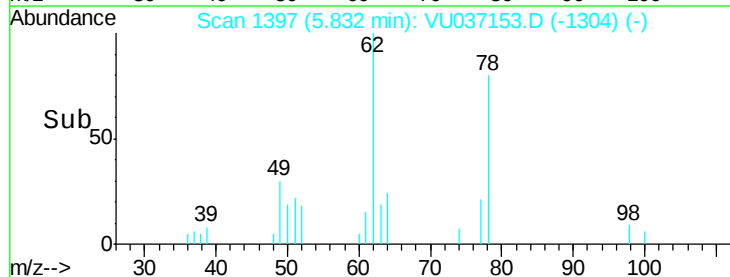
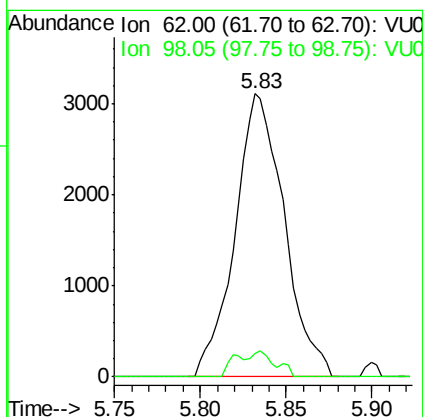
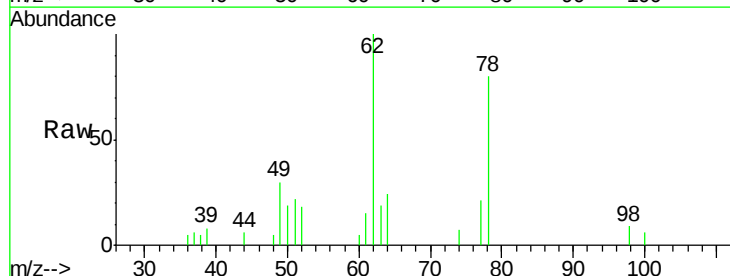
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

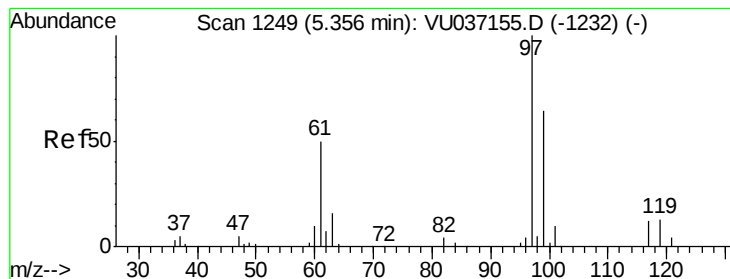
Tgt Ion: 83 Resp: 9433
Ion Ratio Lower Upper
83 100
85 65.9 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.545 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Tgt Ion: 62 Resp: 6203
Ion Ratio Lower Upper
62 100
98 8.5 5.9 8.9





#29

1,1,1-Trichloroethane

Concen: 0.533 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

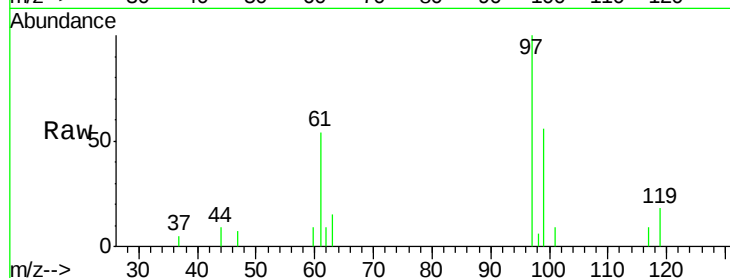
Tgt Ion: 97 Resp: 7409

Ion Ratio Lower Upper

97 100

99 60.3 52.4 78.6

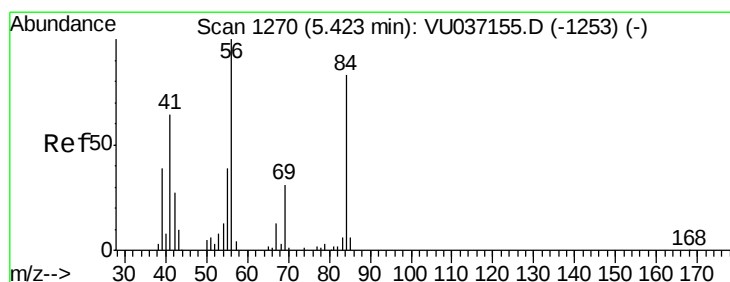
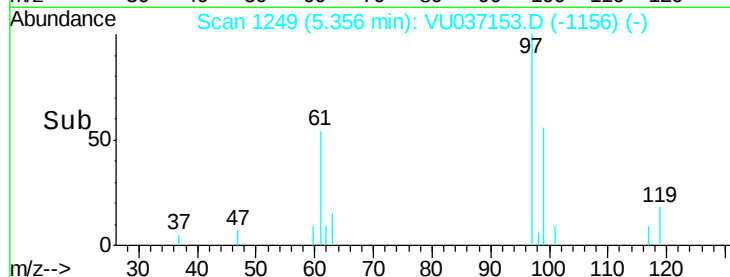
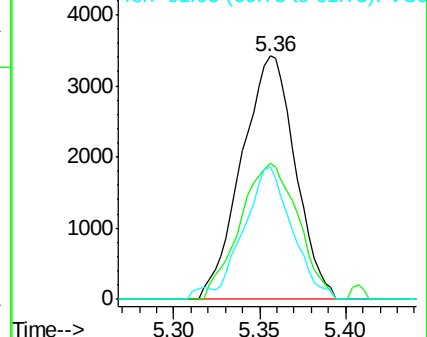
61 48.1 40.6 61.0



Abundance Ion 96.95 (96.65 to 97.65): VU037153.D (-1156) (-)

Ion 99.05 (98.75 to 99.75): VU037153.D (-1156) (-)

Ion 61.05 (60.75 to 61.75): VU037153.D (-1156) (-)



#30

Cyclohexane

Concen: 0.464 ug/L

RT: 5.42 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

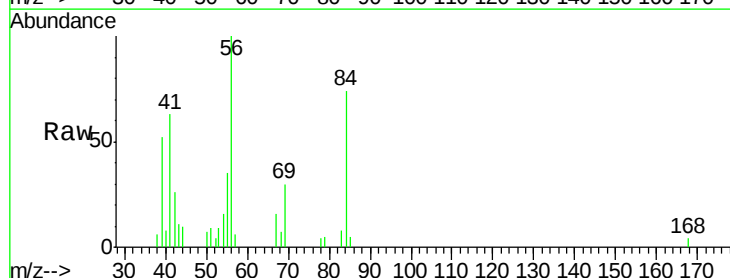
Tgt Ion: 56 Resp: 6735

Ion Ratio Lower Upper

56 100

69 17.6 25.0 37.6#

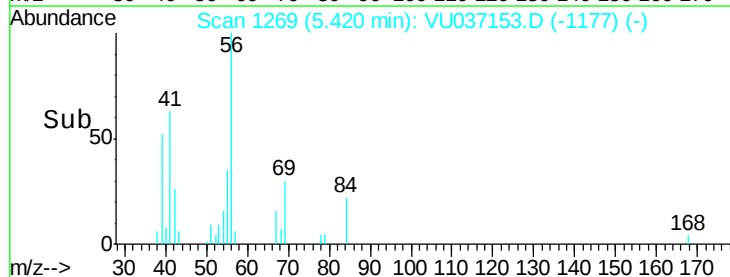
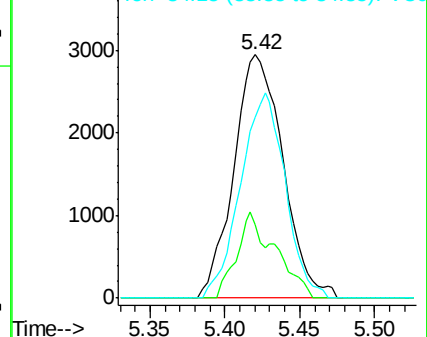
84 76.6 65.4 98.2

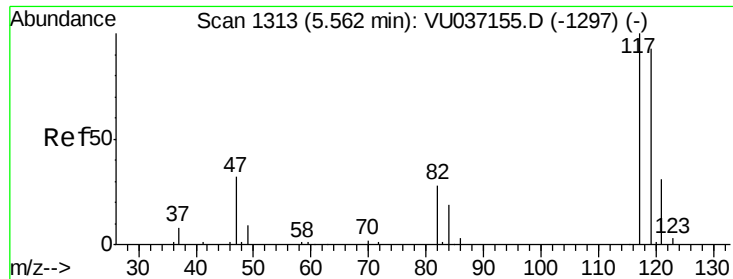


Abundance Ion 56.10 (55.80 to 56.80): VU037153.D (-1177) (-)

Ion 69.15 (68.85 to 69.85): VU037153.D (-1177) (-)

Ion 84.15 (83.85 to 84.85): VU037153.D (-1177) (-)





#31

Carbon tetrachloride

Concen: 0.555 ug/L

RT: 5.56 min Scan# 1311

Delta R.T. -0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

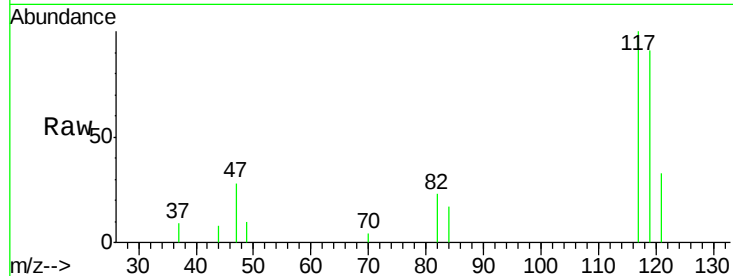
VSTD0.505

Tgt Ion: 117 Resp: 6315

Ion Ratio Lower Upper

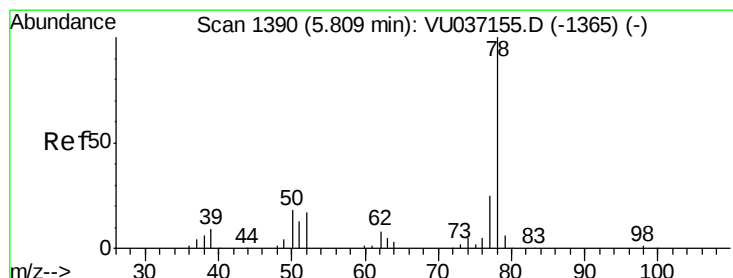
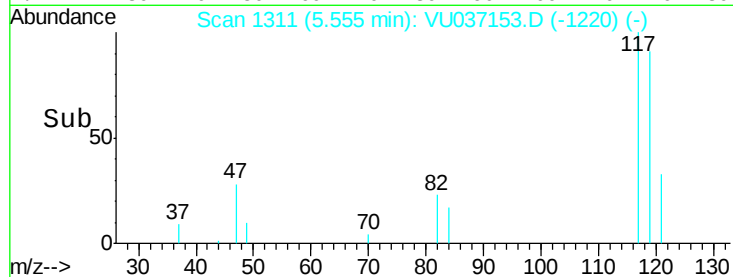
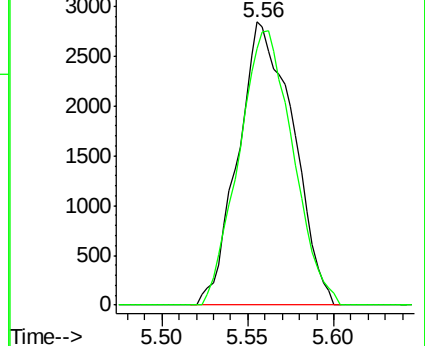
117 100

119 95.3 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.455 ug/L

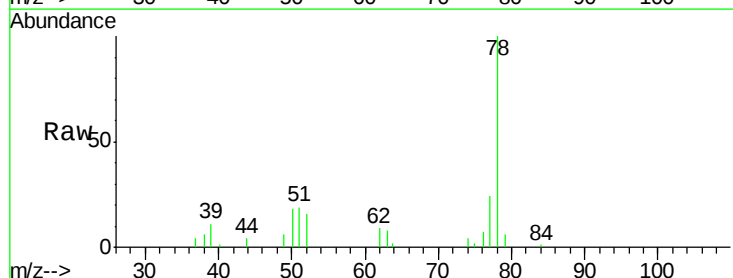
RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Tgt Ion: 78 Resp: 17145



Abundance Ion 78.10 (77.80 to 78.80): VU0

10000

8000

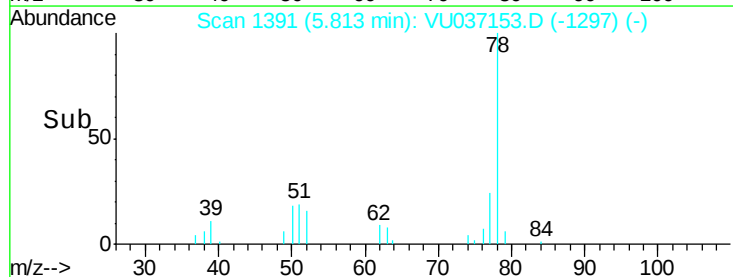
6000

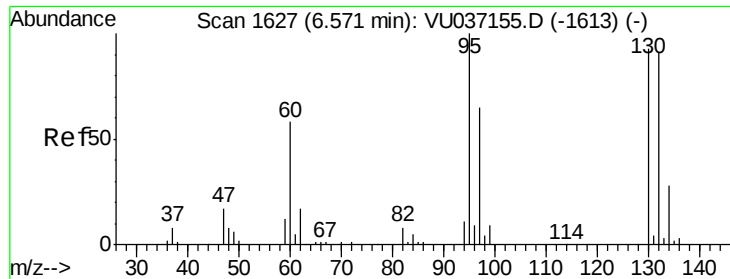
4000

2000

0

Time-->

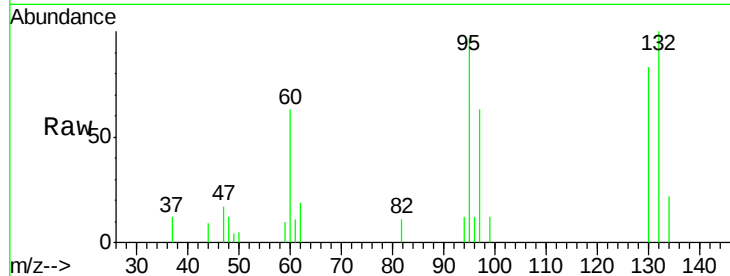




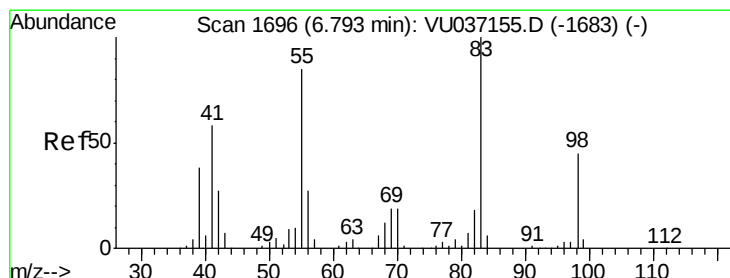
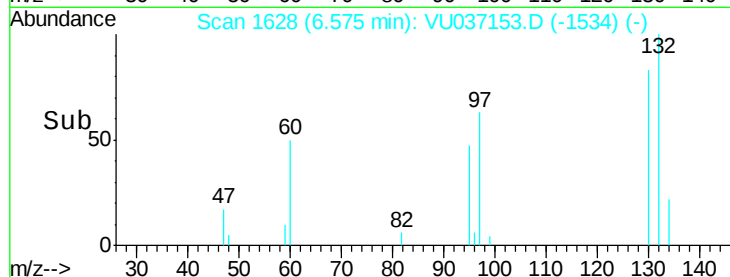
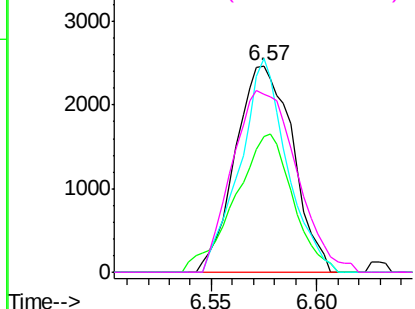
#34
 Trichloroethene
 Concen: 0.480 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

Tgt Ion: 95 Resp: 4651
 Ion Ratio Lower Upper
 95 100
 97 65.5 45.4 84.4
 132 103.4 63.7 118.3
 130 86.0 64.8 120.4

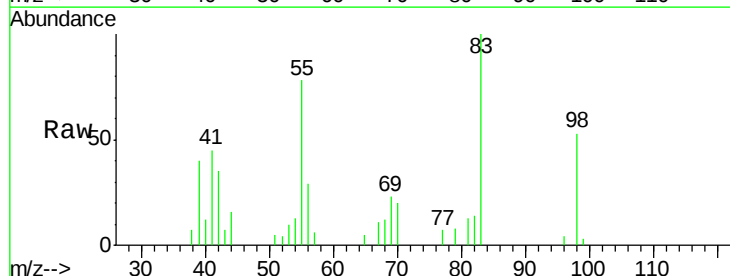


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

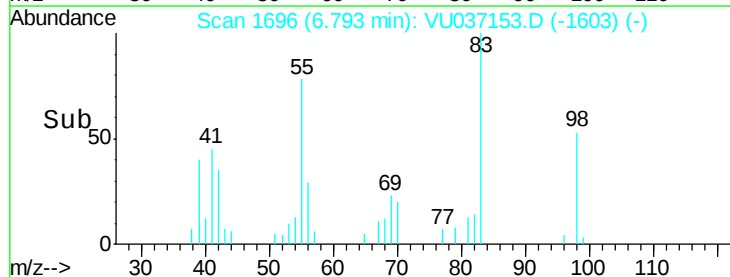
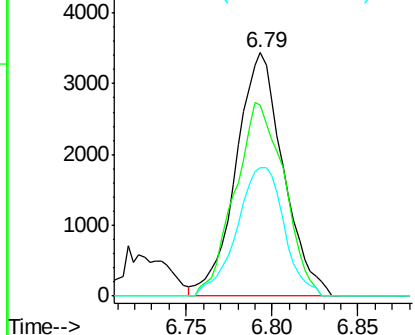


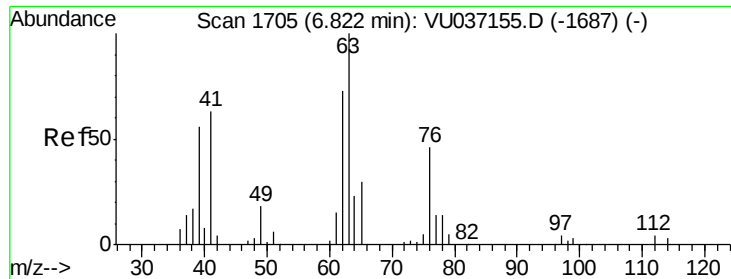
#35
 Methylcyclohexane
 Concen: 0.432 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

Tgt Ion: 83 Resp: 6588
 Ion Ratio Lower Upper
 83 100
 55 82.2 68.1 102.1
 98 52.7 37.0 55.4



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

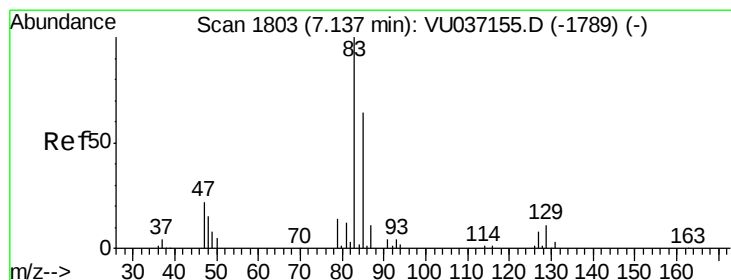
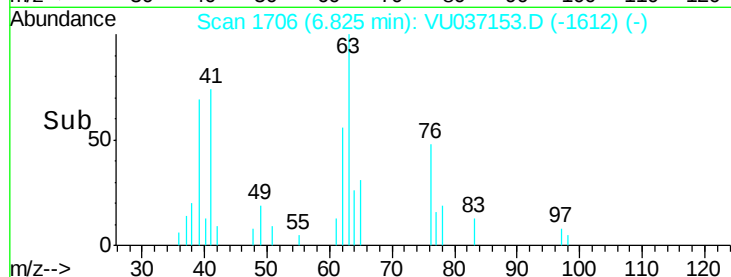
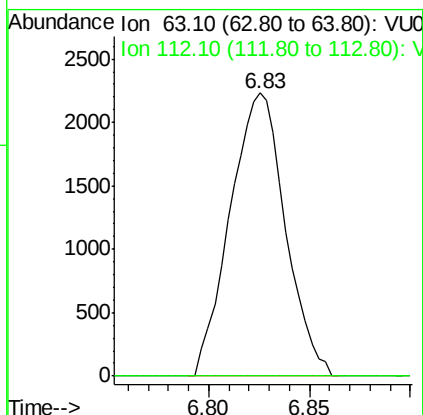
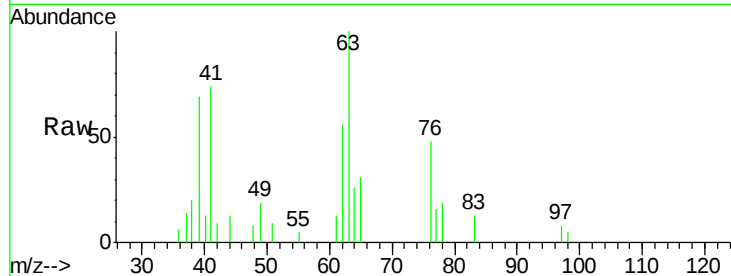




#37
 1,2-Dichloropropane
 Concen: 0.418 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

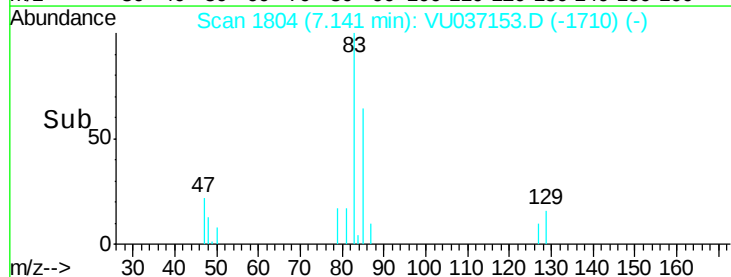
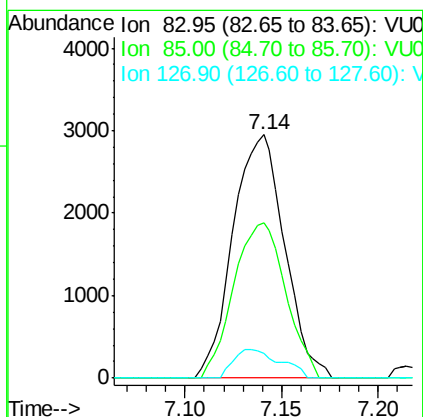
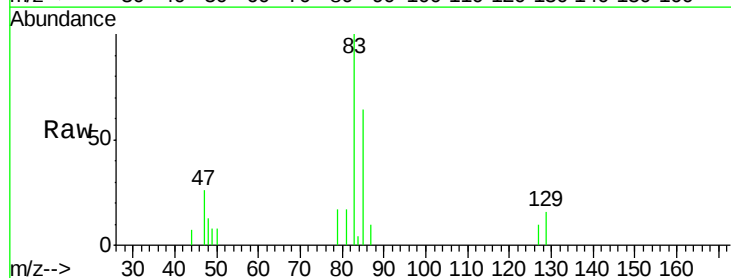
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

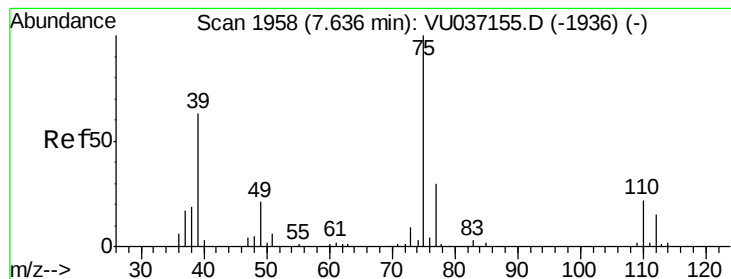
Tgt Ion: 63 Resp: 4260
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 0.440 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

Tgt Ion: 83 Resp: 5461
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.1 83.7
 127 9.9 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 0.387 ug/L

RT: 7.64 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

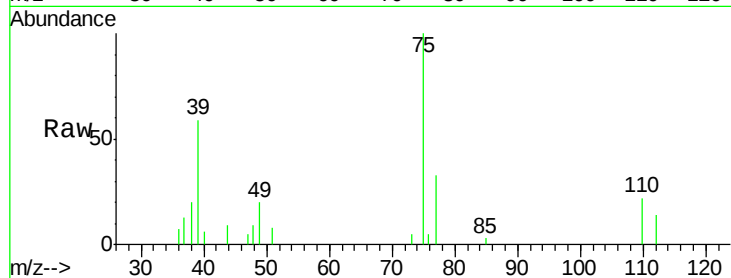
VSTD0.505

Tgt Ion: 75 Resp: 5668

Ion Ratio Lower Upper

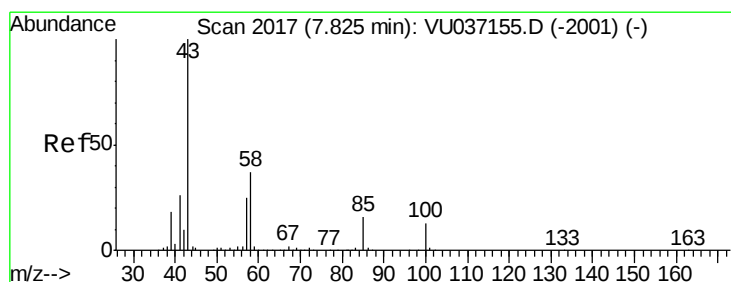
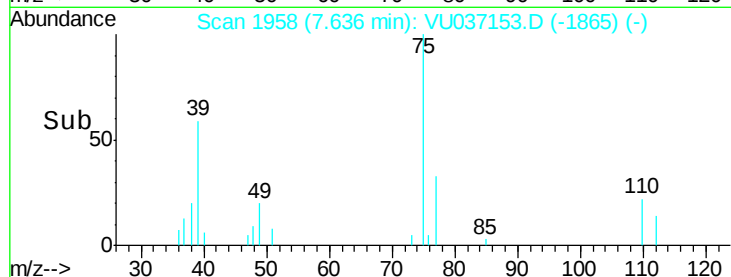
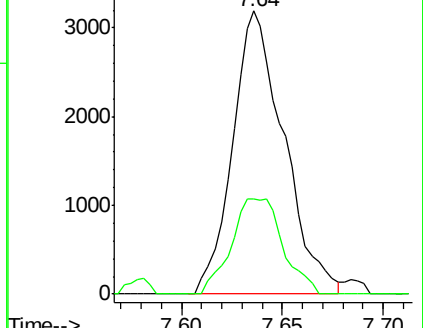
75 100

77 33.5 21.1 39.1



Abundance Ion 75.05 (74.75 to 75.75): VU037153.D (-1936) (-)

Ion 77.05 (76.75 to 77.75): VU037153.D (-1936) (-)



#40

4-Methyl-2-pentanone

Concen: 4.348 ug/L

RT: 7.83 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

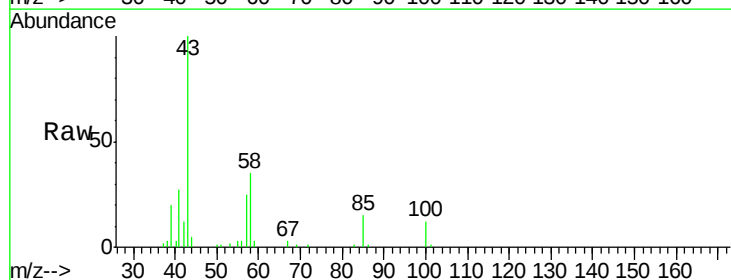
Tgt Ion: 43 Resp: 29010

Ion Ratio Lower Upper

43 100

58 34.8 28.6 42.8

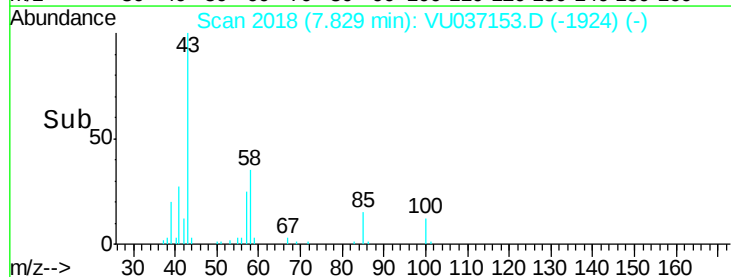
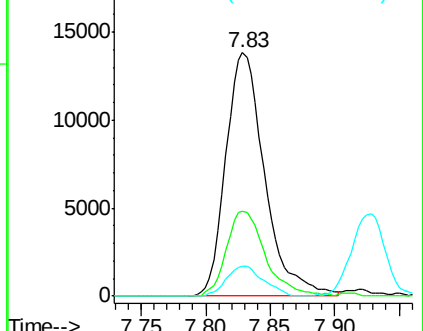
100 11.7 10.2 15.2

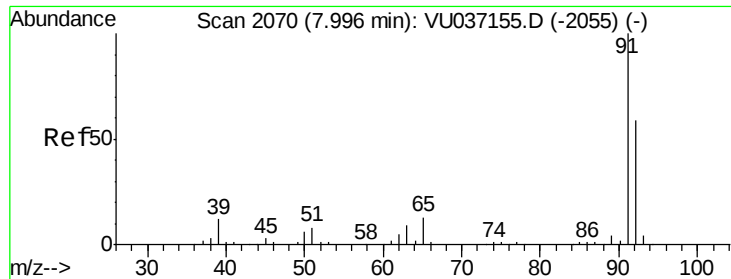


Abundance Ion 43.05 (42.75 to 43.75): VU037153.D (-2001) (-)

Ion 58.05 (57.75 to 58.75): VU037153.D (-2001) (-)

Ion 100.15 (99.85 to 100.85): VU037153.D (-2001) (-)





#42

Toluene

Concen: 0.408 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

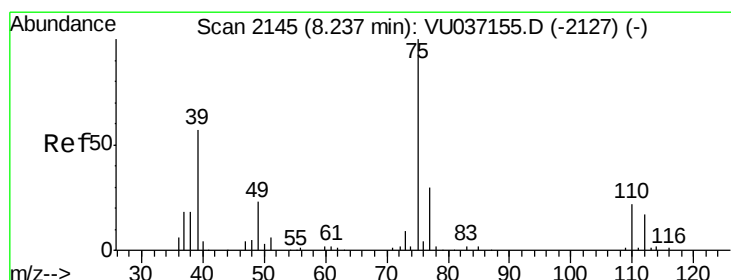
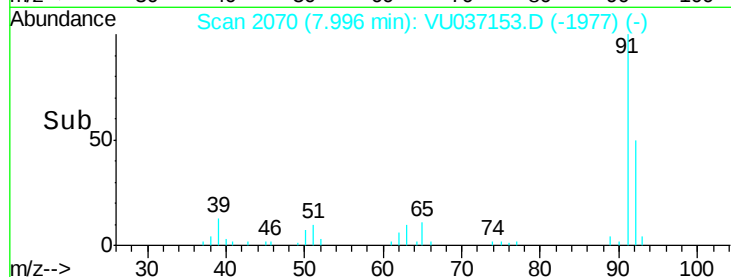
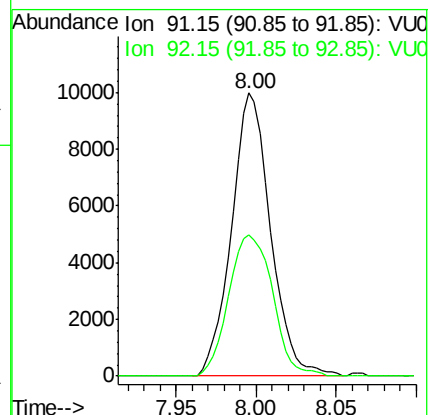
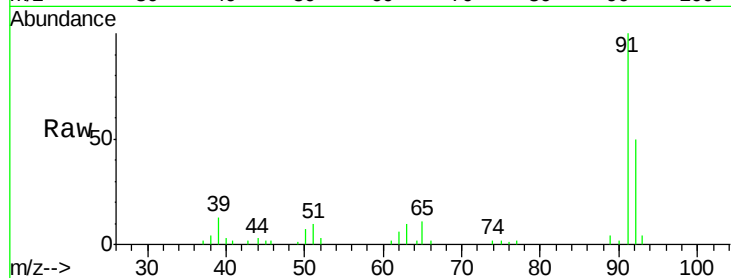
VSTD0.505

Tgt Ion: 91 Resp: 16586

Ion Ratio Lower Upper

91 100

92 50.1 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 0.389 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU037153.D

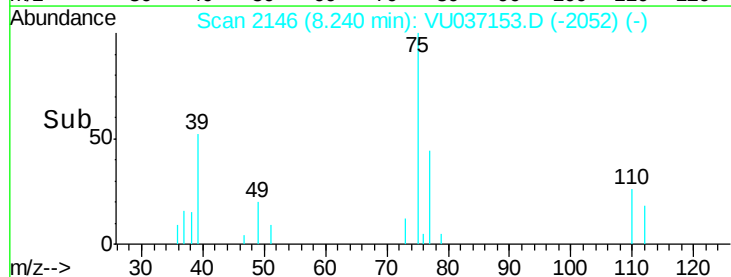
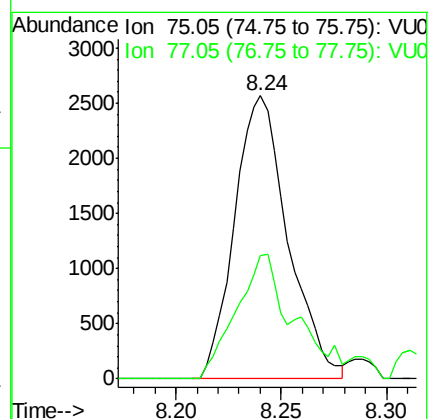
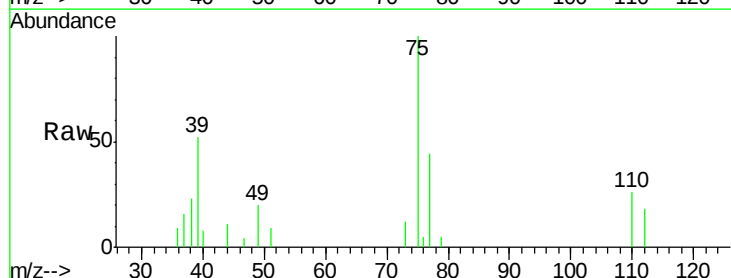
Acq: 10 Mar 2020 15:52

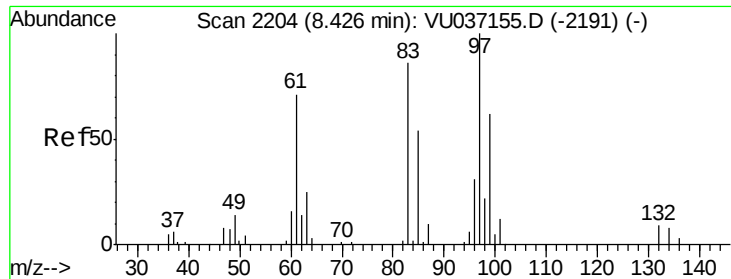
Tgt Ion: 75 Resp: 4519

Ion Ratio Lower Upper

75 100

77 43.6 21.2 39.4#

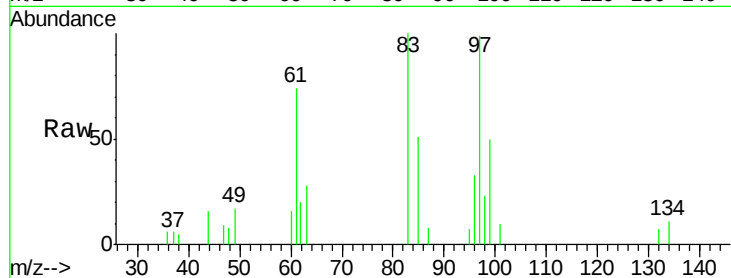




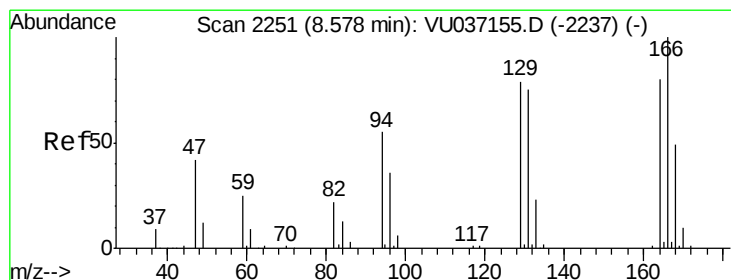
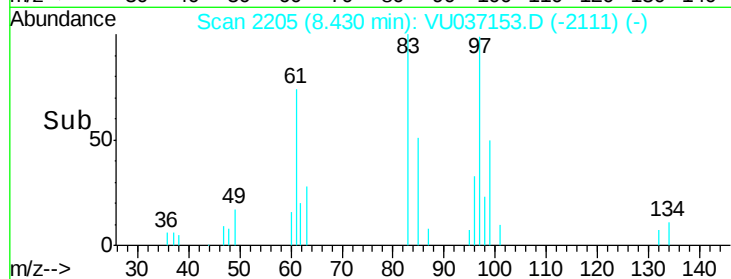
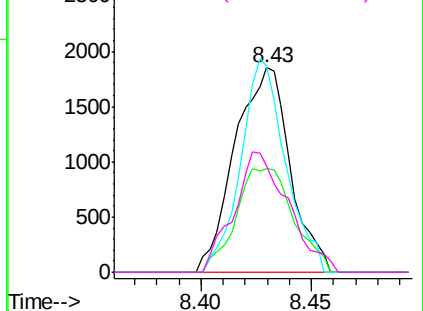
#45
1,1,2-Trichloroethane
Concen: 0.451 ug/L
RT: 8.43 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Tgt Ion:	97	Resp:	3217
Ion	Ratio	Lower	Upper
97	100		
99	50.6	43.6	81.0
83	101.1	60.1	111.7
85	52.0	37.8	70.2

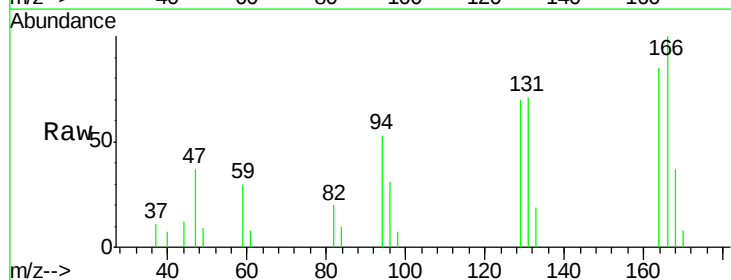


Abundance Ion 96.95 (96.65 to 97.65): VU037153.D (-2191) (-)
Ion 99.05 (98.75 to 99.75): VU037153.D (-2191) (-)
Ion 82.95 (82.65 to 83.65): VU037153.D (-2191) (-)
Ion 85.00 (84.70 to 85.70): VU037153.D (-2191) (-)

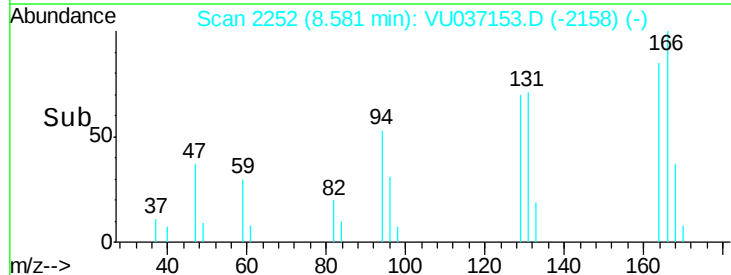
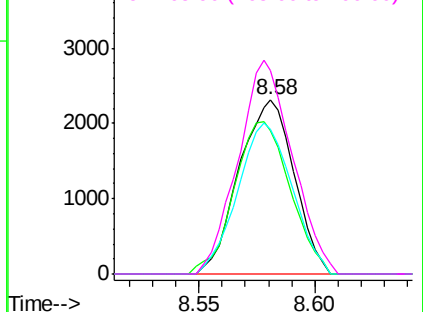


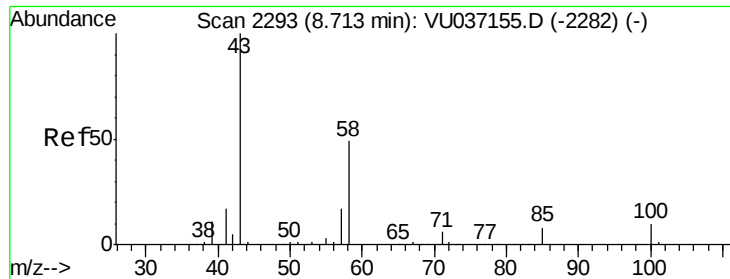
#47
Tetrachloroethene
Concen: 0.561 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Tgt Ion:	164	Resp:	3806
Ion	Ratio	Lower	Upper
164	100		
129	82.0	69.8	129.6
131	83.0	66.1	122.8
166	117.1	88.1	163.5



Abundance Ion 163.90 (163.60 to 164.60): VU037153.D (-2237) (-)
Ion 128.95 (128.65 to 129.65): VU037153.D (-2237) (-)
Ion 130.95 (130.65 to 131.65): VU037153.D (-2237) (-)
Ion 165.90 (165.60 to 166.60): VU037153.D (-2237) (-)

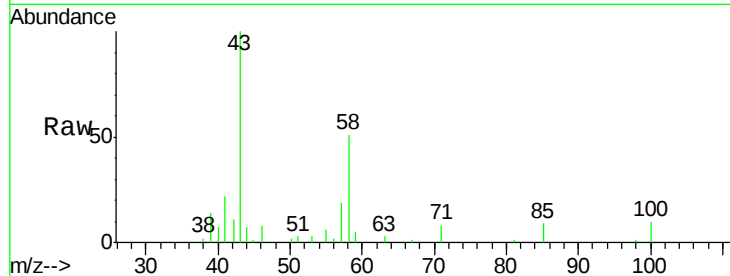




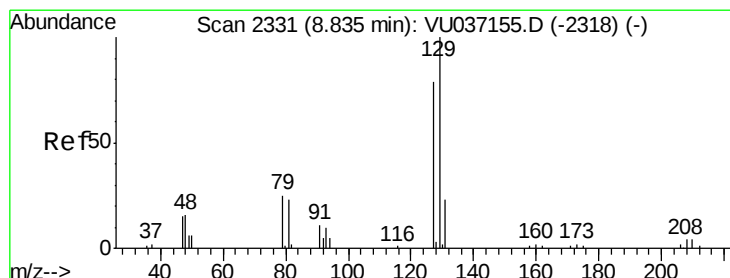
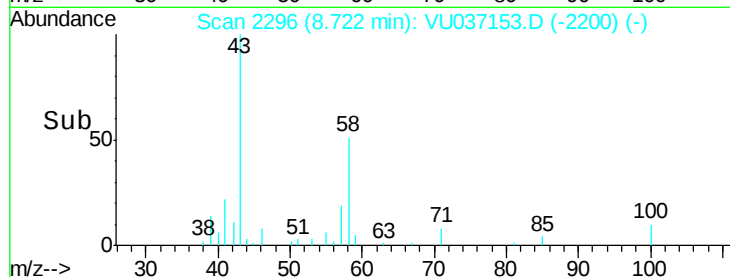
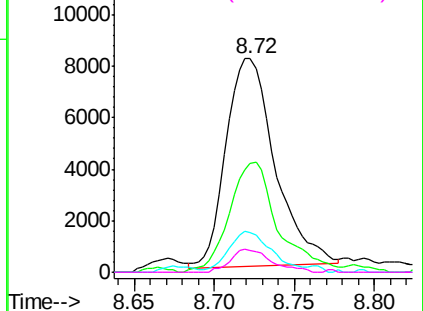
#48
2-Hexanone
Concen: 3.079 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. 0.01 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Tgt Ion: 43 Resp: 17043
Ion Ratio Lower Upper
43 100
58 51.9 38.6 58.0
57 15.1 13.6 20.4
100 9.2 7.4 11.2

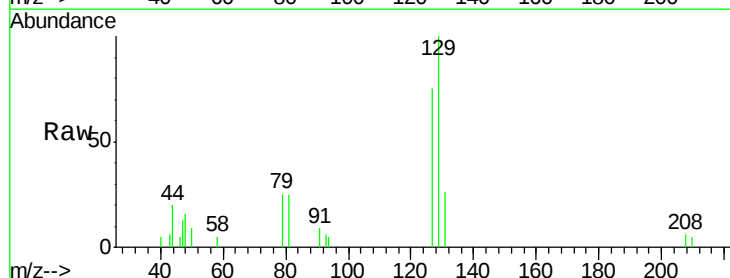


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

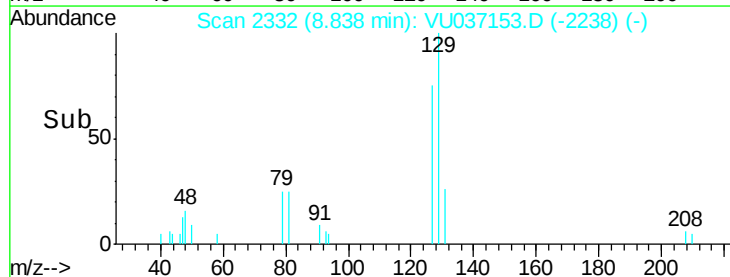
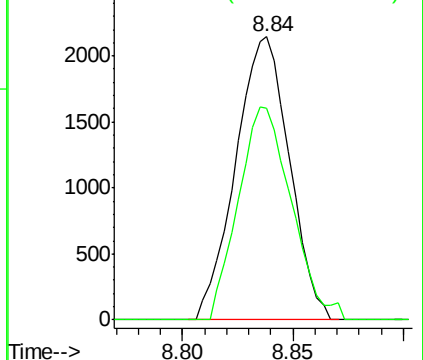


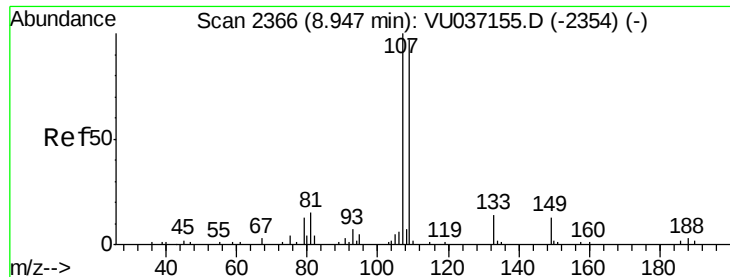
#49
Dibromochloromethane
Concen: 0.475 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Tgt Ion: 129 Resp: 3619
Ion Ratio Lower Upper
129 100
127 74.6 54.9 102.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

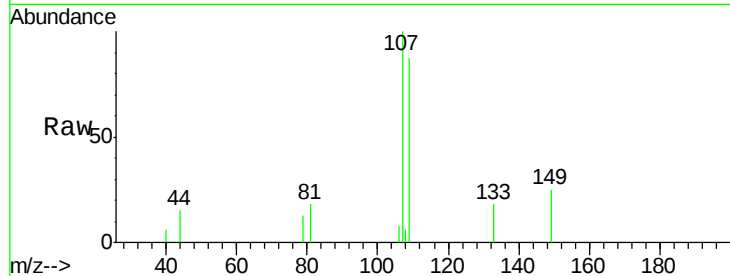




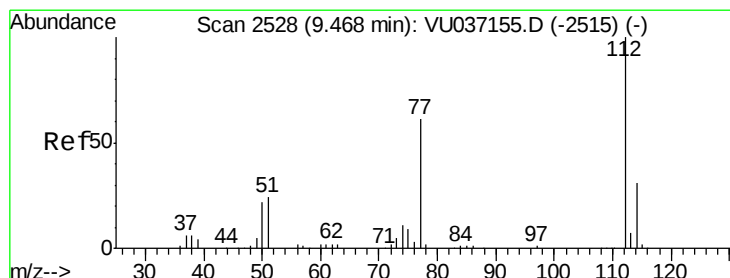
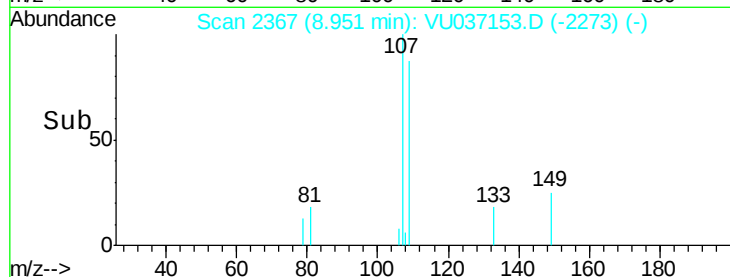
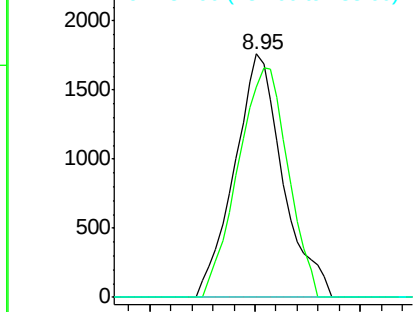
#50
1,2-Dibromoethane
Concen: 0.430 ug/L
RT: 8.95 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Tgt Ion:107 Resp: 2809
Ion Ratio Lower Upper
107 100
109 86.5 68.2 126.6
188 0.0 2.0 3.0#

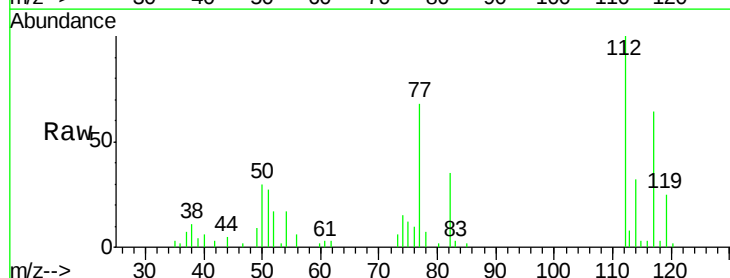


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

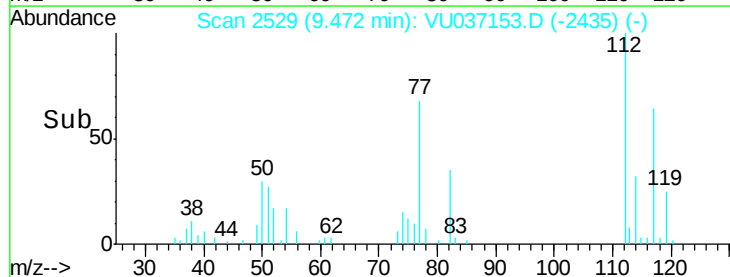
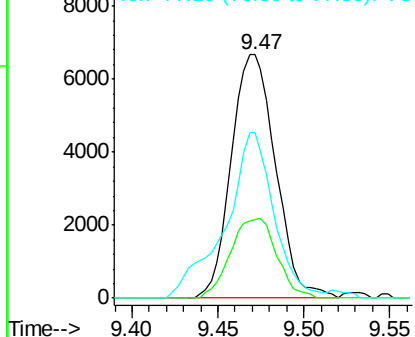


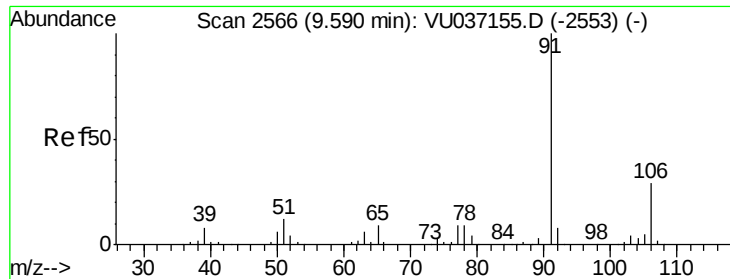
#51
Chlorobenzene
Concen: 0.477 ug/L
RT: 9.47 min Scan# 2529
Delta R.T. 0.00 min
Lab File: VU037153.D
Acq: 10 Mar 2020 15:52

Tgt Ion:112 Resp: 11935
Ion Ratio Lower Upper
112 100
114 32.4 22.0 40.8
77 68.2 49.4 74.2



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.393 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

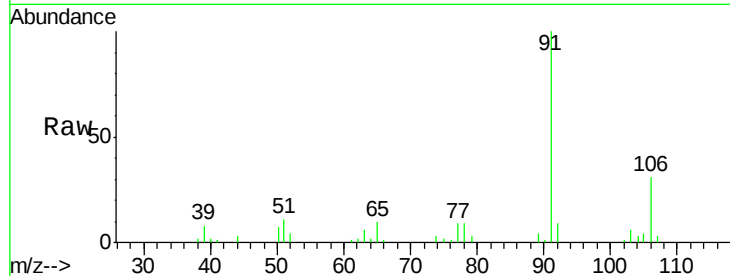
VSTD0.505

Tgt Ion: 91 Resp: 17762

Ion Ratio Lower Upper

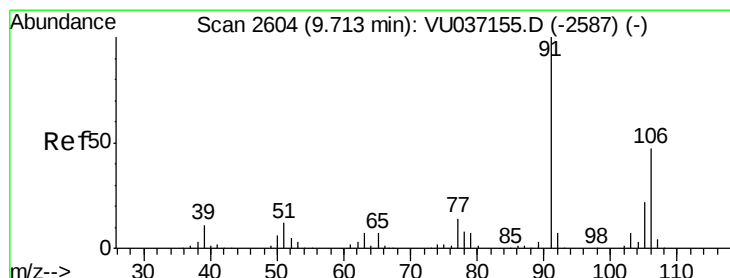
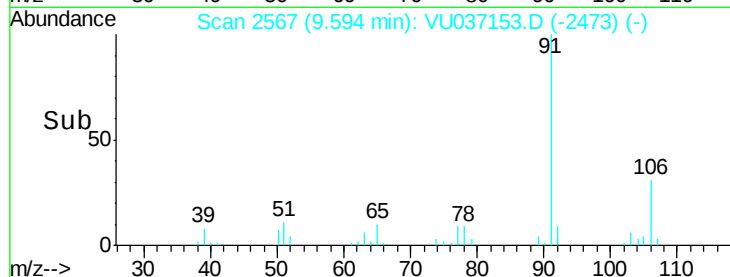
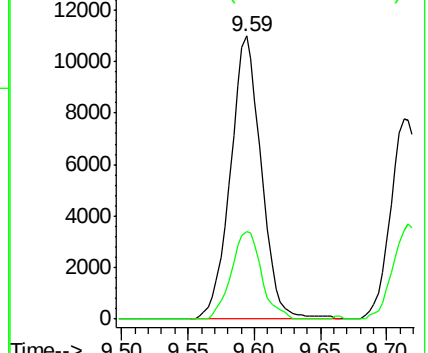
91 100

106 30.9 20.4 37.8



Abundance Ion 91.15 (90.85 to 91.85): VU037153.D (-2553) (-)

Ion 106.15 (105.85 to 106.85): VU037153.D (-2553) (-)



#53

m,p-Xylene

Concen: 0.350 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU037153.D

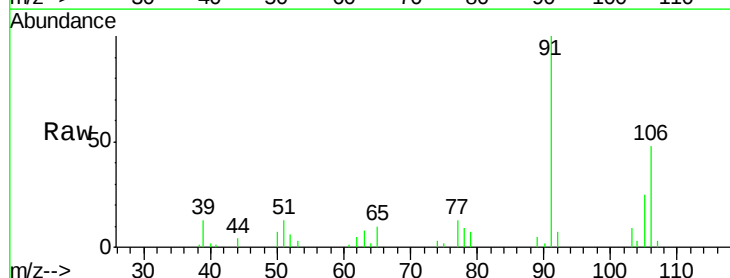
Acq: 10 Mar 2020 15:52

Tgt Ion: 106 Resp: 5808

Ion Ratio Lower Upper

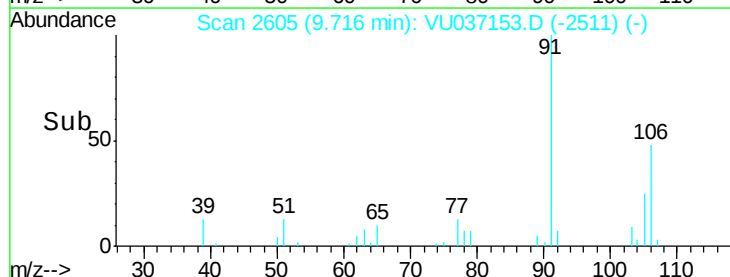
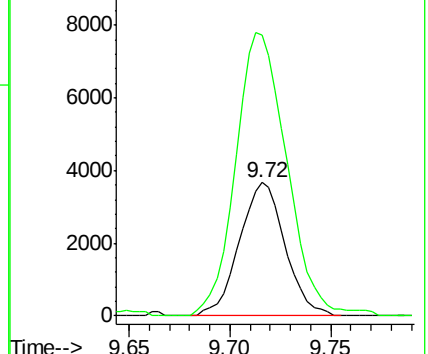
106 100

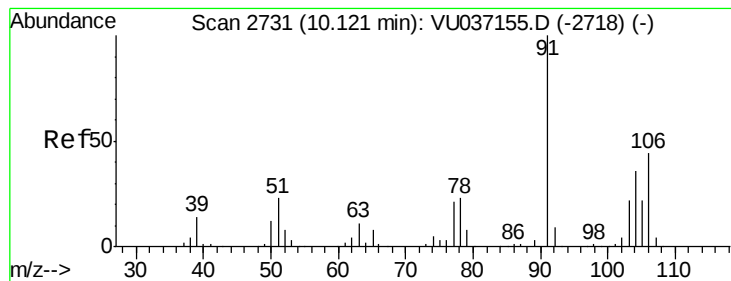
91 210.3 150.4 279.4



Abundance Ion 106.15 (105.85 to 106.85): VU037153.D (-2587) (-)

Ion 91.15 (90.85 to 91.85): VU037153.D (-2587) (-)





#54

o-Xylene

Concen: 0.361 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

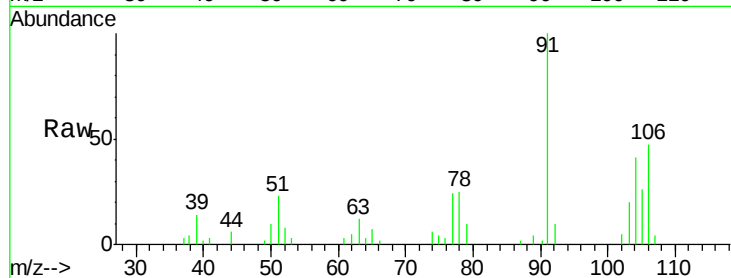
VSTD0.505

Tgt Ion:106 Resp: 5831

Ion Ratio Lower Upper

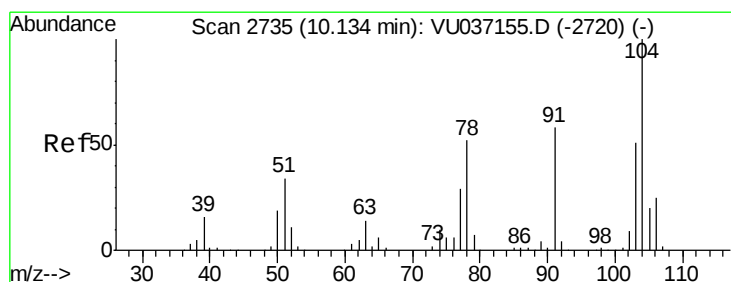
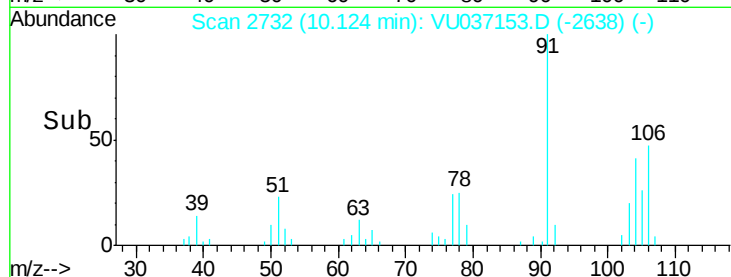
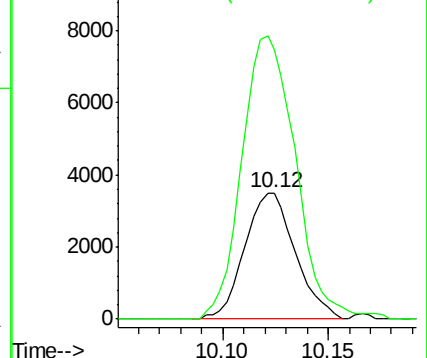
106 100

91 212.9 160.6 298.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.351 ug/L

RT: 10.14 min Scan# 2736

Delta R.T. 0.00 min

Lab File: VU037153.D

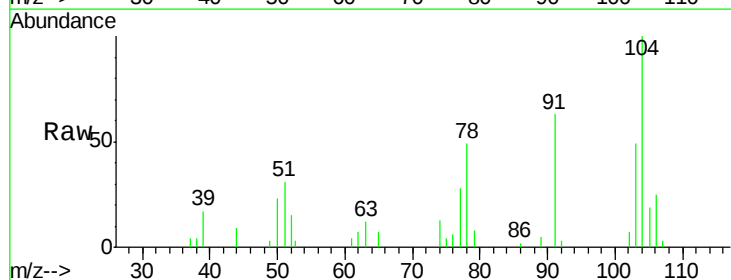
Acq: 10 Mar 2020 15:52

Tgt Ion:104 Resp: 9569

Ion Ratio Lower Upper

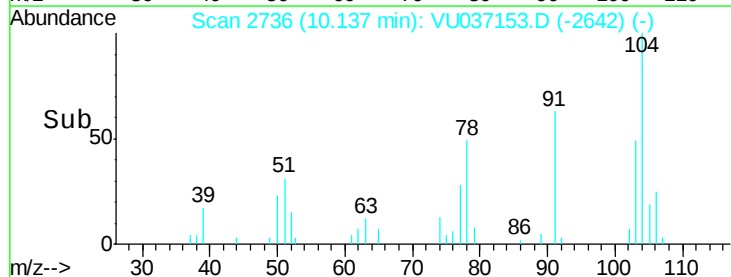
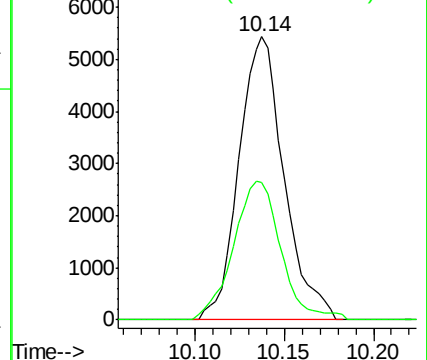
104 100

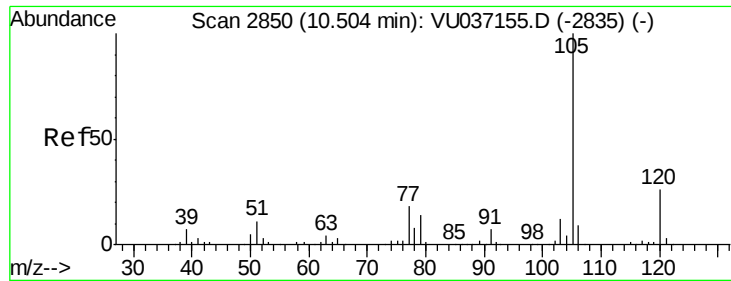
78 48.6 36.2 67.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.355 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

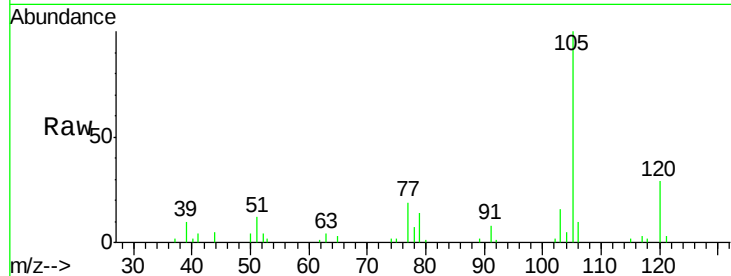
Tgt Ion: 105 Resp: 15453

Ion Ratio Lower Upper

105 100

120 28.3 20.5 30.7

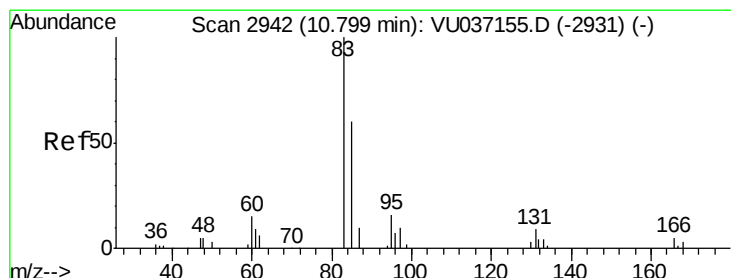
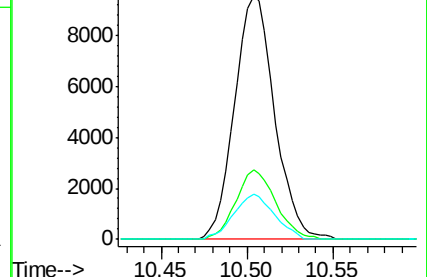
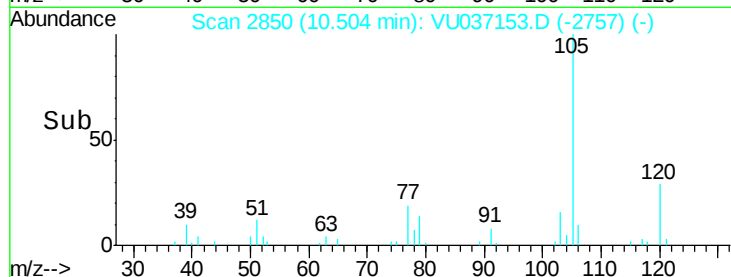
77 18.7 14.2 21.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.376 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

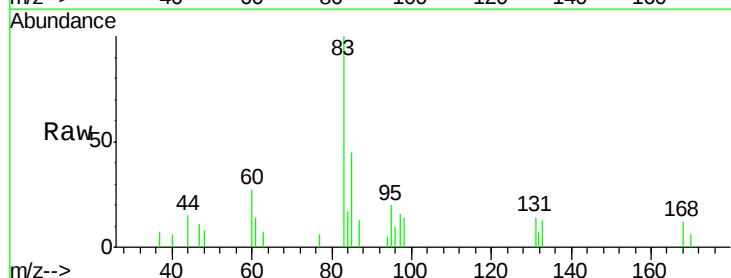
Tgt Ion: 83 Resp: 3484

Ion Ratio Lower Upper

83 100

85 44.9 43.0 80.0

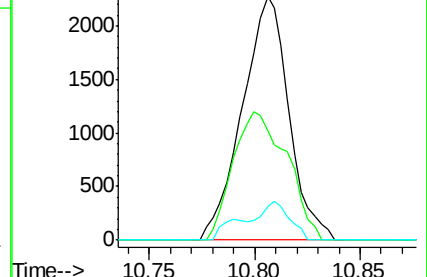
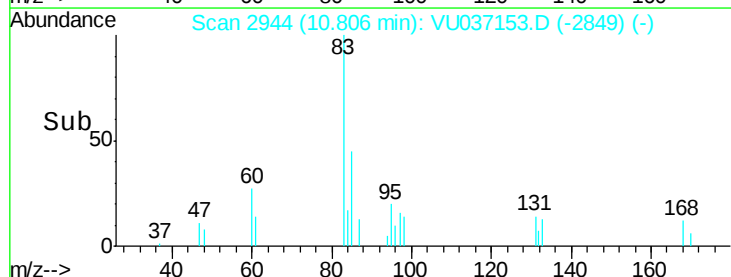
131 14.1 8.2 12.2#

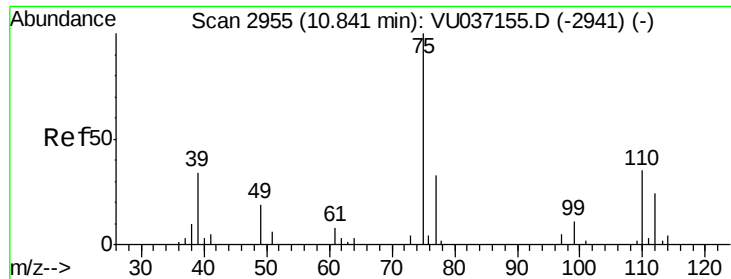


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

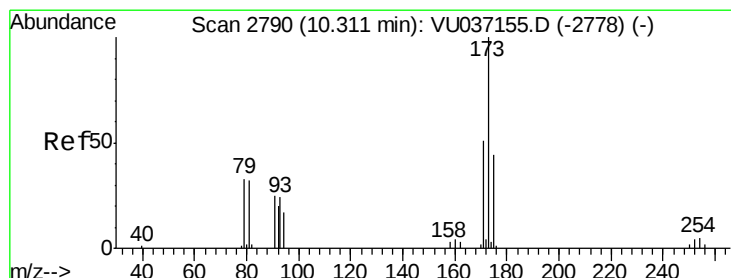
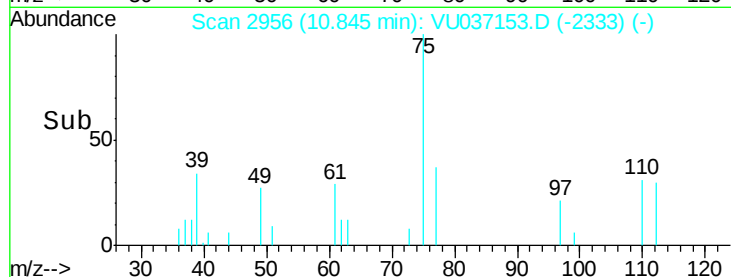
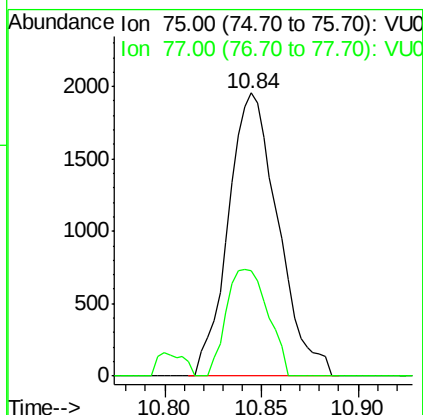
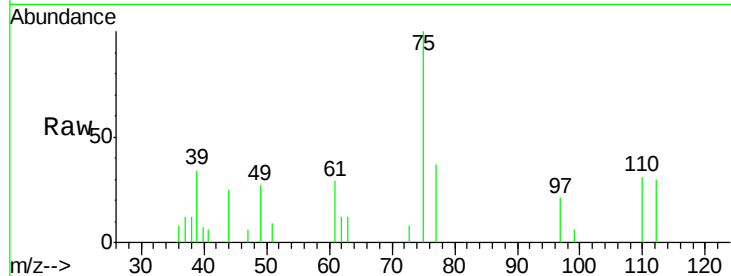




#59
 1,2,3-Trichloropropane
 Concen: 0.516 ug/L
 RT: 10.84 min Scan# 2956
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

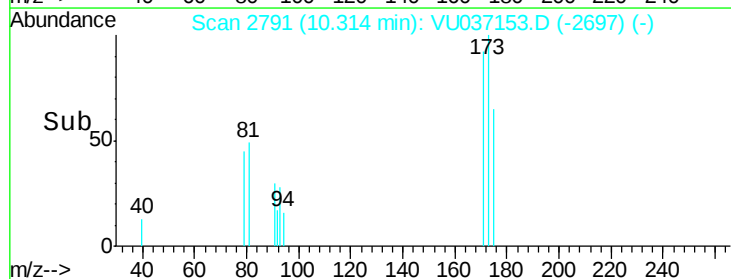
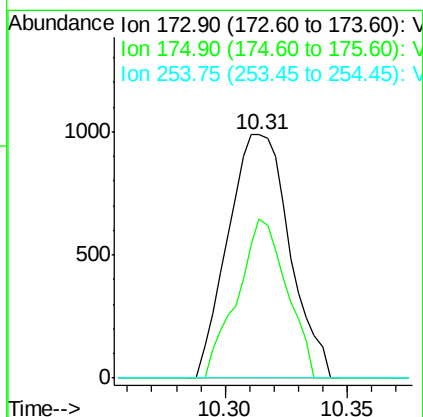
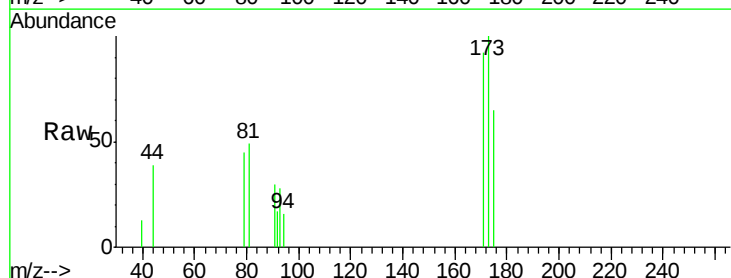
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

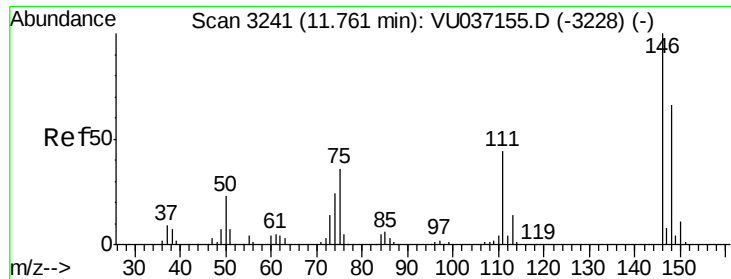
Tgt Ion: 75 Resp: 3500
 Ion Ratio Lower Upper
 75 100
 77 31.5 27.4 41.0



#61
 Bromoform
 Concen: 0.477 ug/L
 RT: 10.31 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

Tgt Ion: 173 Resp: 1731
 Ion Ratio Lower Upper
 173 100
 175 52.3 37.4 56.2
 254 0.0 3.5 5.3#





#62

1,3-Dichlorobenzene

Concen: 0.462 ug/L

RT: 11.76 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

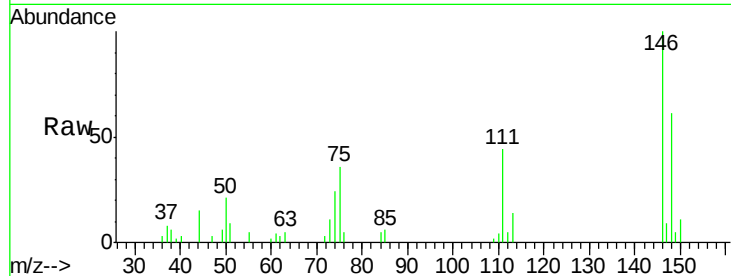
Tgt Ion:146 Resp: 8153

Ion Ratio Lower Upper

146 100

111 43.7 30.6 56.8

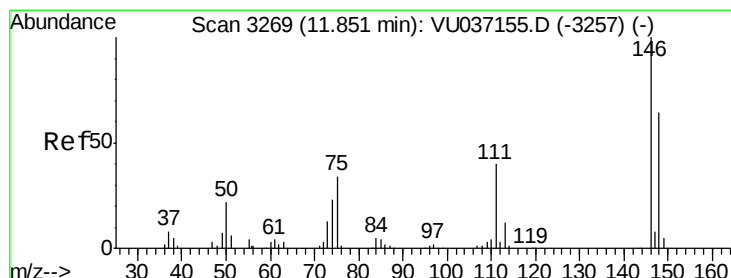
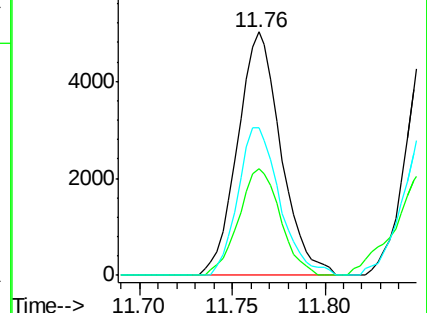
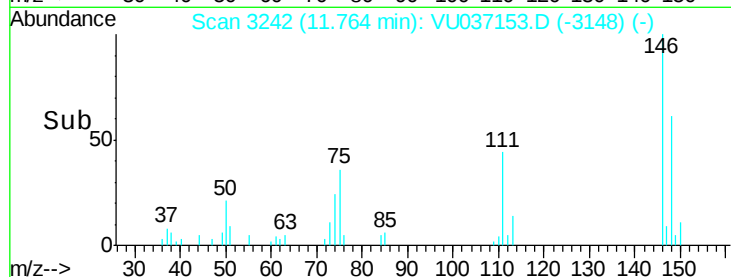
148 60.5 46.2 85.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.486 ug/L

RT: 11.85 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

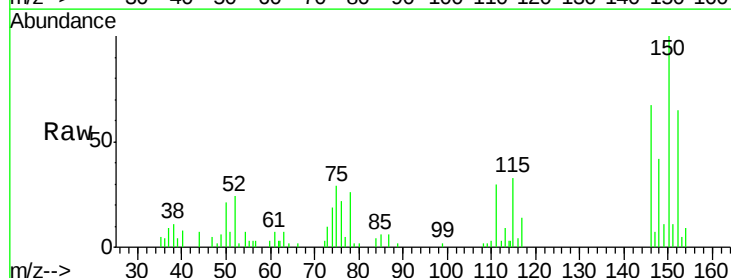
Tgt Ion:146 Resp: 8459

Ion Ratio Lower Upper

146 100

111 44.7 28.4 52.8

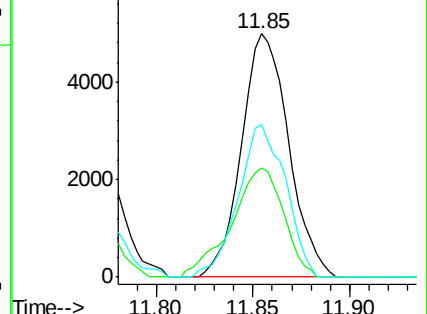
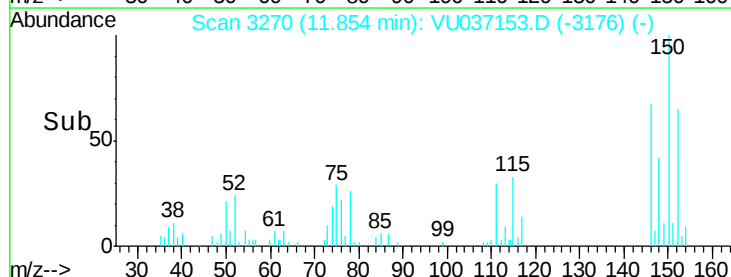
148 62.8 44.9 83.5

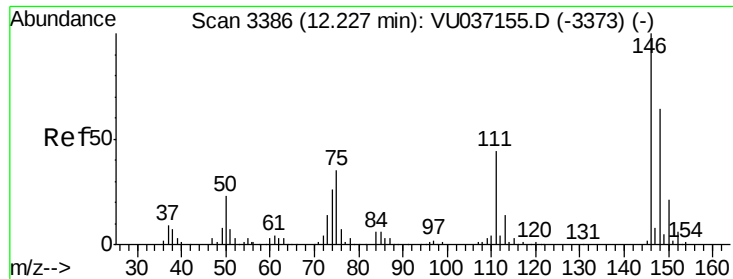


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.456 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

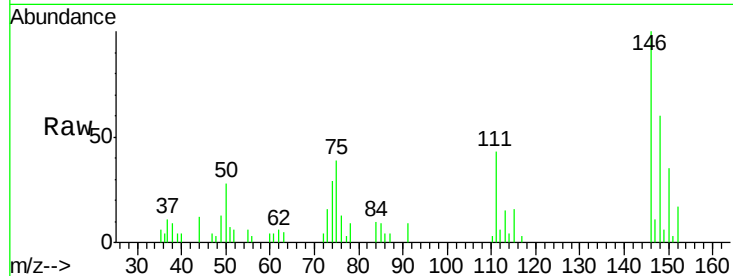
Tgt Ion: 146 Resp: 7715

Ion Ratio Lower Upper

146 100

111 42.7 35.5 53.3

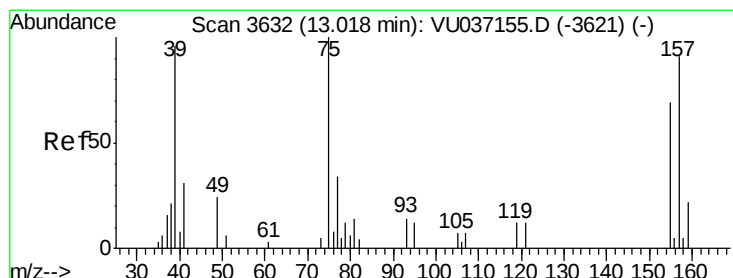
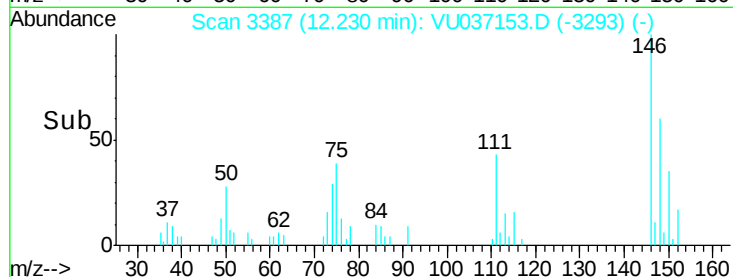
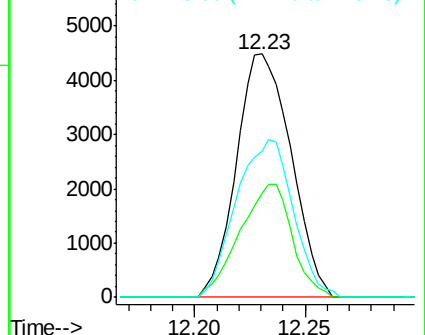
148 60.2 51.4 77.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.403 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

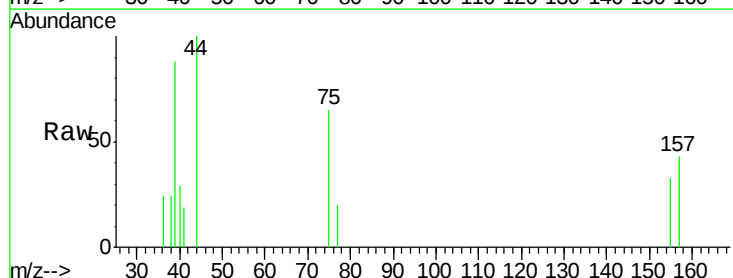
Tgt Ion: 75 Resp: 506

Ion Ratio Lower Upper

75 100

155 50.9 55.5 83.3#

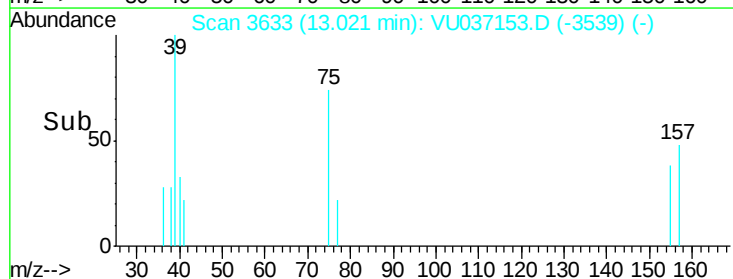
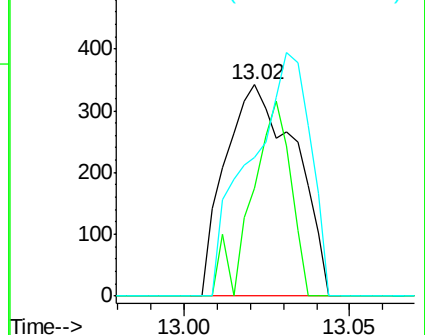
157 65.8 73.1 109.7#

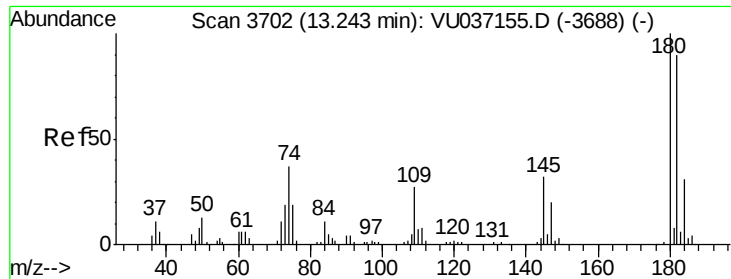


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

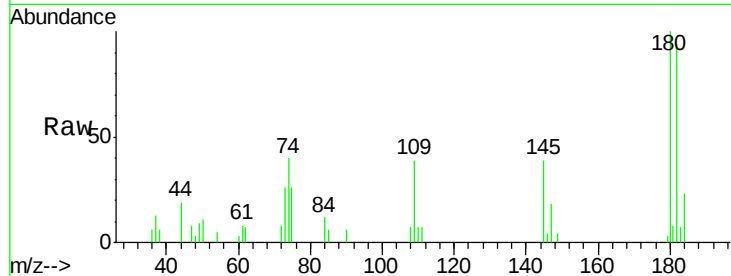




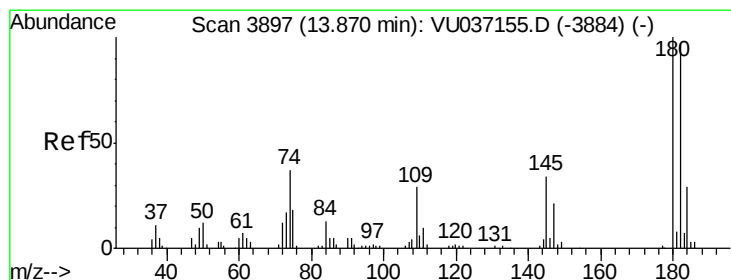
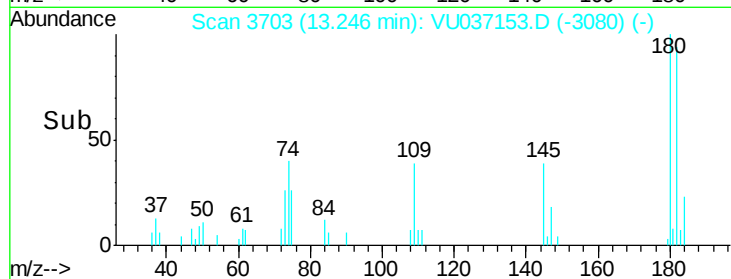
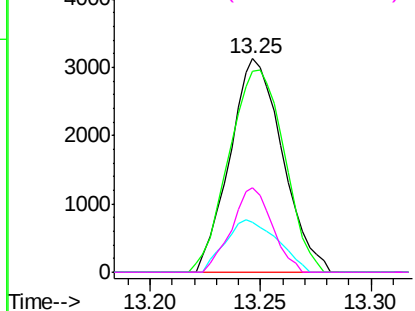
#67
 1,3,5-Trichlorobenzene
 Concen: 0.419 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.00 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

Tgt Ion:180 Resp: 5166
 Ion Ratio Lower Upper
 180 100
 182 99.6 73.6 110.4
 184 24.2 24.1 36.1
 145 30.4 26.3 39.5

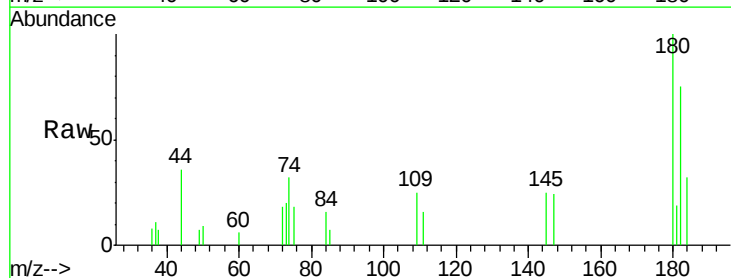


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

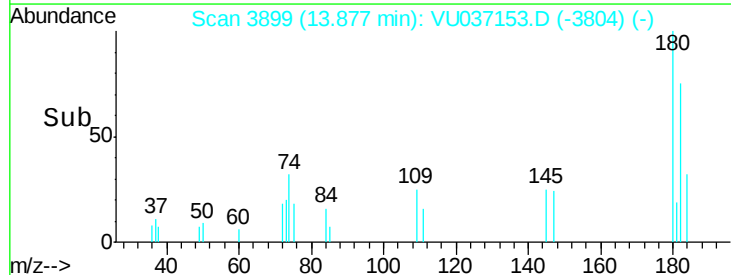
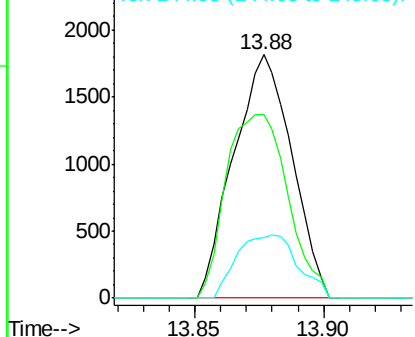


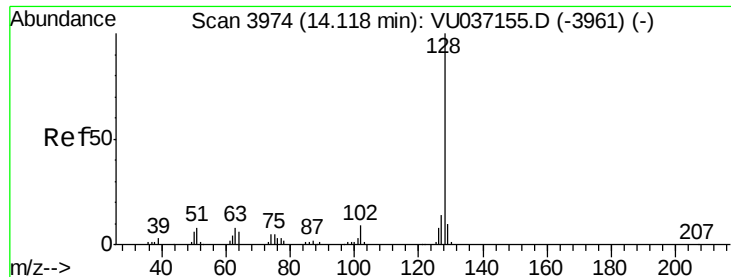
#68
 1,2,4-trichlorobenzene
 Concen: 0.314 ug/L
 RT: 13.88 min Scan# 3899
 Delta R.T. 0.01 min
 Lab File: VU037153.D
 Acq: 10 Mar 2020 15:52

Tgt Ion:180 Resp: 2846
 Ion Ratio Lower Upper
 180 100
 182 80.0 76.7 115.1
 145 27.2 26.6 39.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.178 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

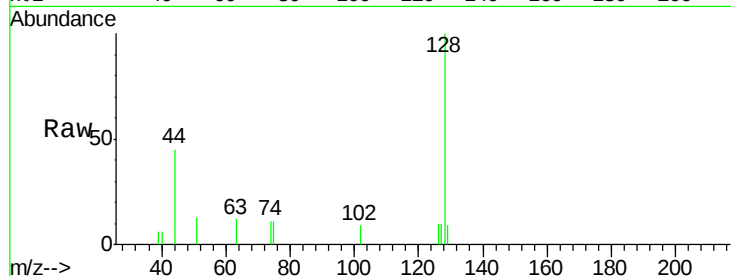
Tgt Ion:128 Resp: 2796

Ion Ratio Lower Upper

128 100

129 5.0 8.6 12.8#

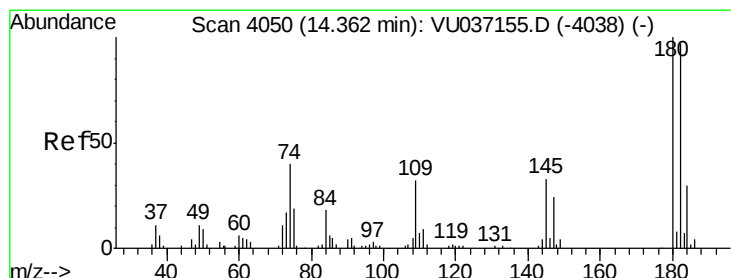
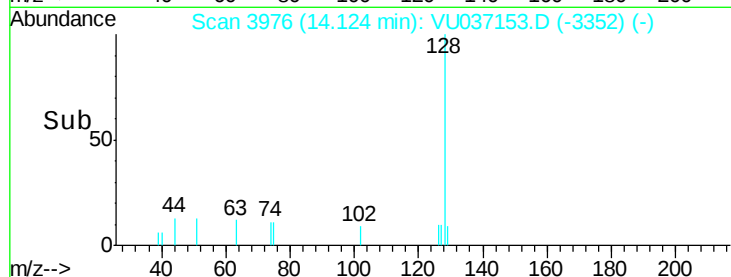
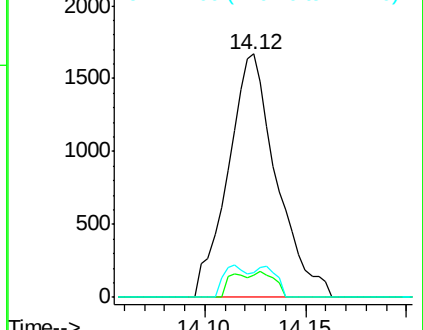
127 6.2 10.6 16.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.326 ug/L

RT: 14.37 min Scan# 4053

Delta R.T. 0.01 min

Lab File: VU037153.D

Acq: 10 Mar 2020 15:52

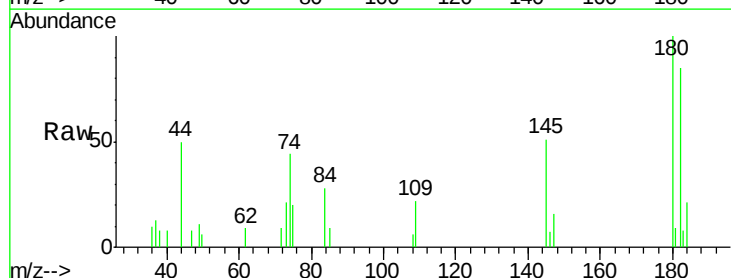
Tgt Ion:180 Resp: 2673

Ion Ratio Lower Upper

180 100

182 81.8 77.0 115.6

145 43.1 28.2 42.4#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

