

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
 Data File : VU038346.D
 Acq On : 28 May 2020 15:30
 Operator : JC/MD
 Sample : L2756-06MSD 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETKW8MSD

Quant Time: May 29 04:33:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	603147	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	583770	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	280696	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	194813	51.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.90%
7) Chloroethane-d5	1.93	69	151501	51.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.58%
11) 1,1-Dichloroethene-d2	2.59	63	375795	48.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.12%
21) 2-Butanone-d5	4.67	46	369350	102.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.67%
24) Chloroform-d	5.10	84	350290	47.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.22%
26) 1,2-Dichloroethane-d4	5.74	65	245472	48.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.34%
32) Benzene-d6	5.76	84	751283	49.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.06%
36) 1,2-Dichloropropane-d6	6.72	67	231785	49.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.58%
41) Toluene-d8	7.92	98	661166	49.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.62%
43) trans-1,3-Dichloropropene-	8.20	79	113465	48.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.94%
47) 2-Hexanone-d5	8.66	63	267748	108.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.16%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	326885	46.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.96%
64) 1,2-Dichlorobenzene-d4	12.20	152	257143	49.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.84%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3792	1.024	ug/L #	30
12) 1,1-Dichloroethene	2.60	96	163528	44.718	ug/L	89
16) Methylene chloride	3.08	84	32267	7.679	ug/L	98
19) 1,1-Dichloroethane	3.91	63	43848	5.895	ug/L	97
20) cis-1,2-Dichloroethene	4.71	96	698555	162.342	ug/L	97
27) 1,2-Dichloroethane	5.81	62	6970	1.125	ug/L #	74
30) 1,1,1-Trichloroethane	5.35	97	262452	41.344	ug/L	99
31) Carbon tetrachloride	5.35	117	32783	6.197	ug/L	99
33) Benzene	5.81	78	733522	44.739	ug/L	100
34) Trichloroethene	6.57	95	180187	42.954	ug/L	99
37) 1,2-Dichloropropane	6.72	63	25446	5.984	ug/L #	86
39) cis-1,3-Dichloropropene	7.59	75	6857	1.013	ug/L #	58
40) 4-Methyl-2-pentanone	7.82	43	14609	2.160	ug/L	99
42) Toluene	7.99	91	1218365	70.781	ug/L	99
48) 2-Hexanone	8.71	43	16342	2.862	ug/L #	92
51) Chlorobenzene	9.47	112	481593	43.533	ug/L	98
52) Ethylbenzene	9.59	91	85412	4.429	ug/L	97

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QLast Update : Fri May 29 04:31:03 2020
Response via : Initial Calibration

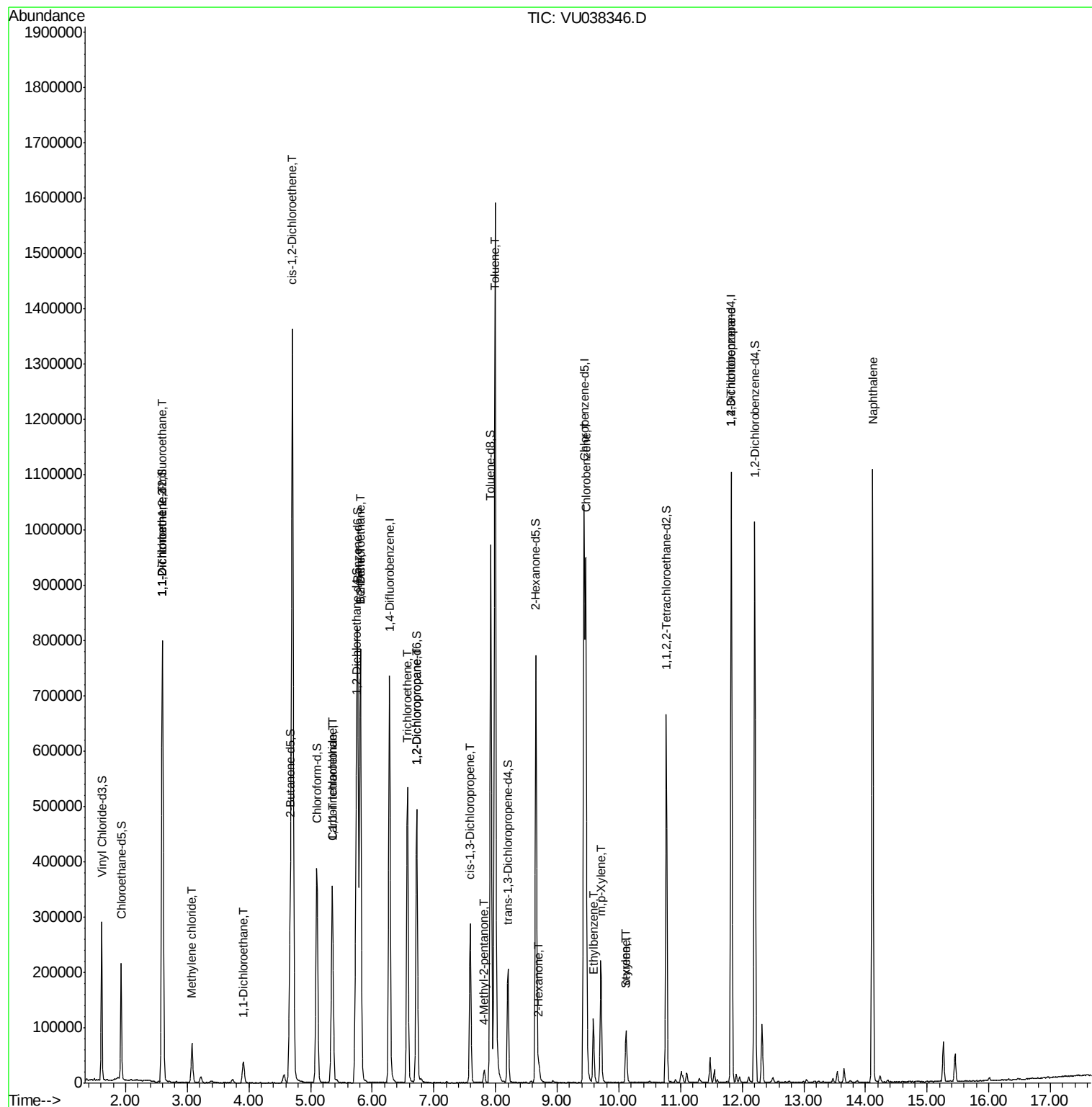
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.71	106	65533	8.885	ug/L	100
54) o-xylene	10.12	106	24638	3.436	ug/L	86
55) Styrene	10.13	104	10660	0.865	ug/L	90
59) 1,2,3-Trichloropropane	11.82	75	36432	6.127	ug/L	92
69) Naphthalene	14.11	128	860061	42.886	ug/L	100

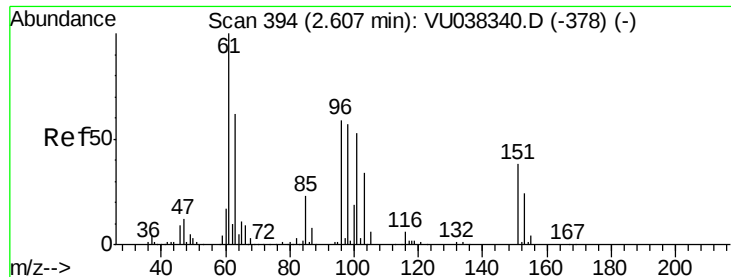
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 1.024 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

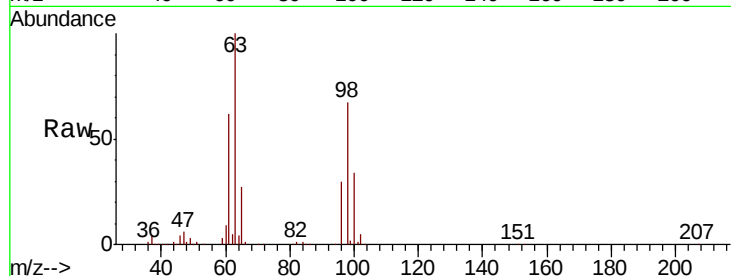
Tot Ion:101 Resp: 3792

Ion Ratio Lower Upper

101 100

85 10.4 35.5 53.3#

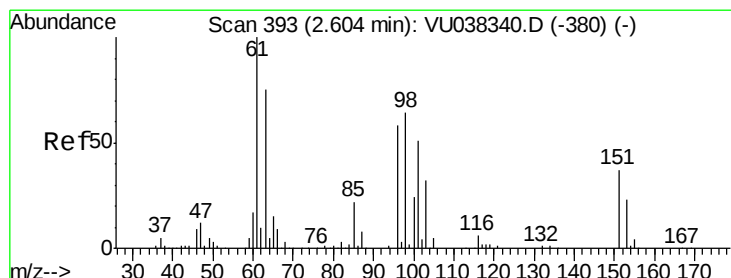
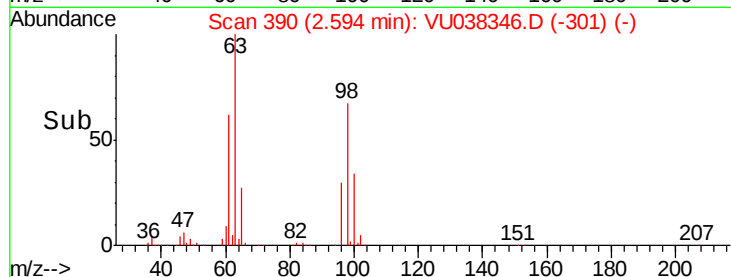
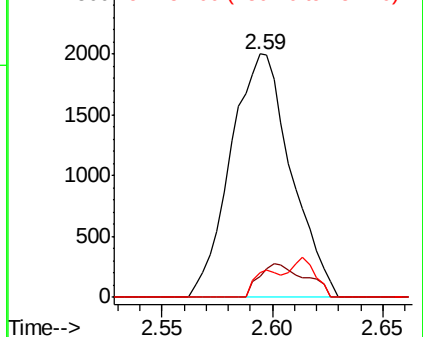
151 4.9 58.4 87.6#



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: 44.718 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

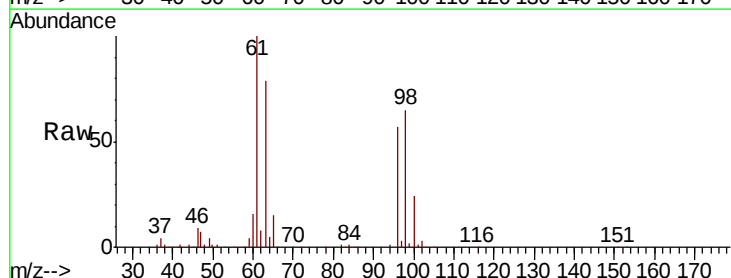
Tgt Ion: 96 Resp: 163528

Ion Ratio Lower Upper

96 100

61 174.5 123.5 229.3

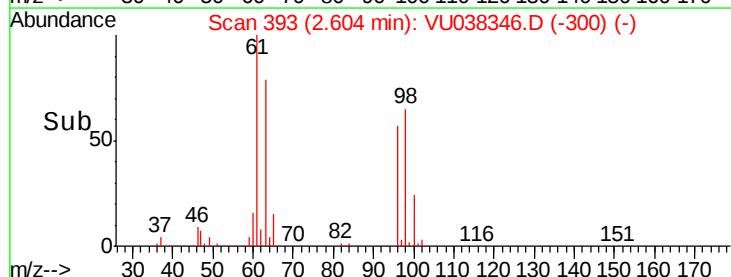
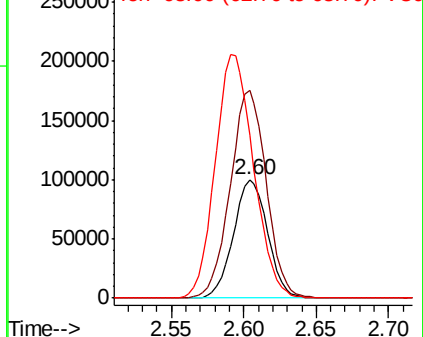
63 137.5 76.6 142.2

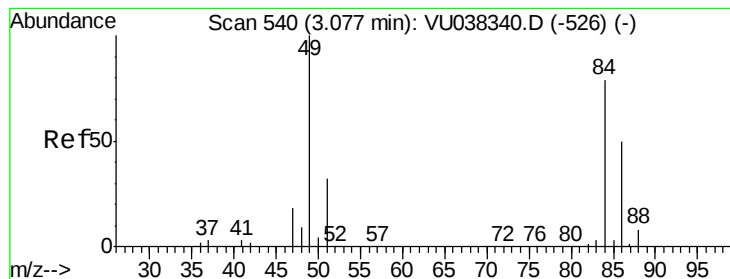


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methvlene chloride

Concen: 7.679 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

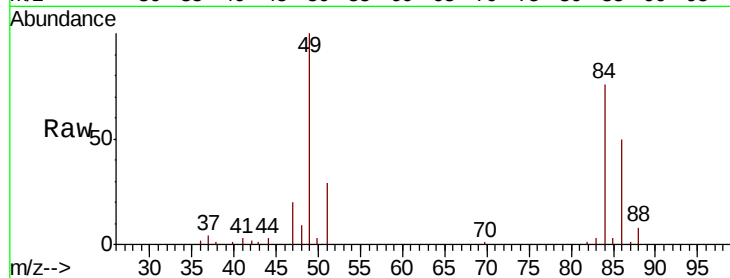
Tot Ion: 84 Resp: 32267

Ion Ratio Lower Upper

84 100

86 65.5 46.1 85.7

49 131.8 90.0 167.2

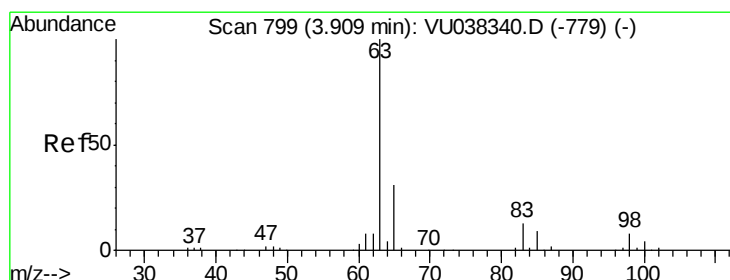
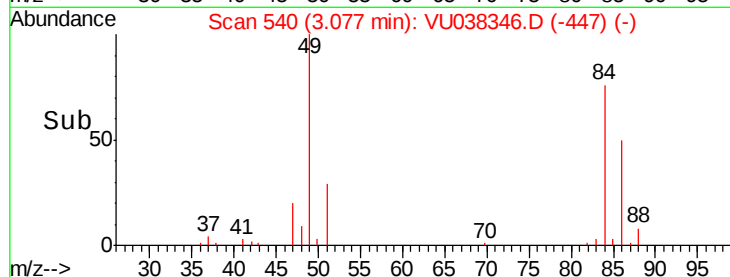
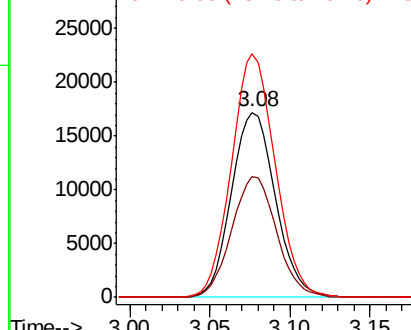


Abundance

Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0



#19

1,1-Dichloroethane

Concen: 5.895 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

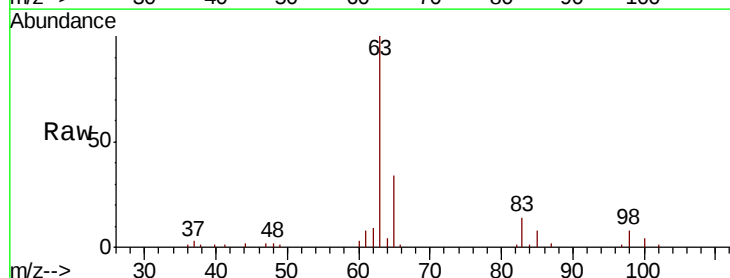
Tgt Ion: 63 Resp: 43848

Ion Ratio Lower Upper

63 100

65 33.9 22.2 41.2

83 13.5 9.4 17.4

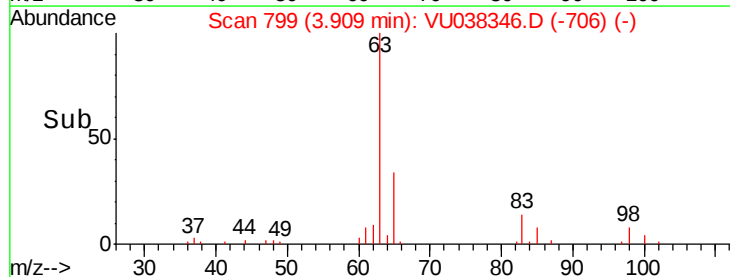
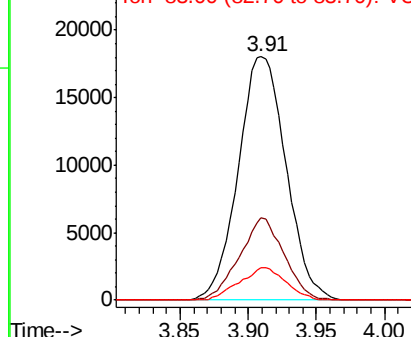


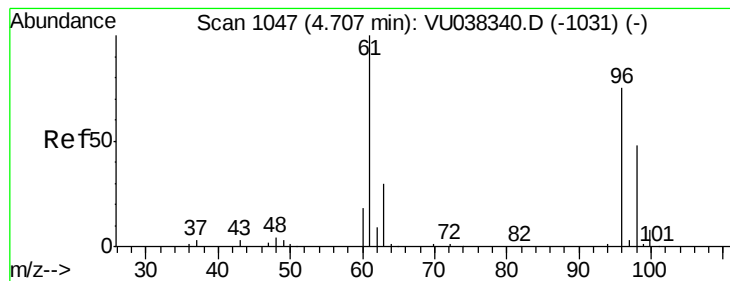
Abundance

Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0





#20

cis-1,2-Dichloroethene

Concen: 162.342 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

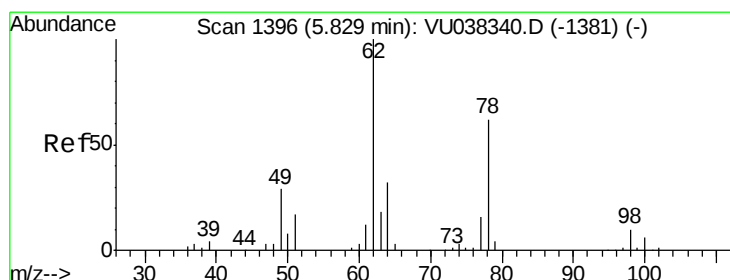
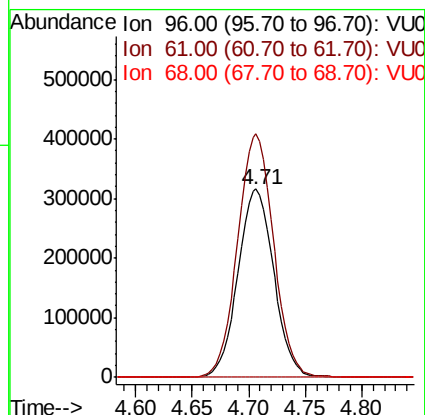
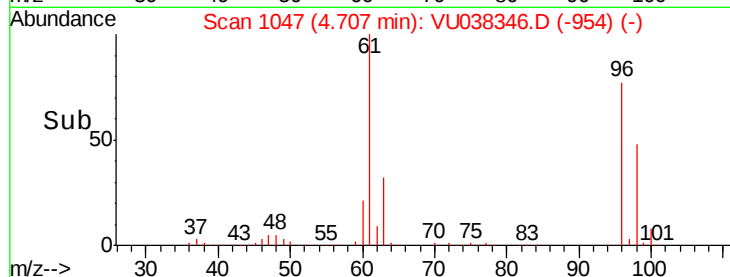
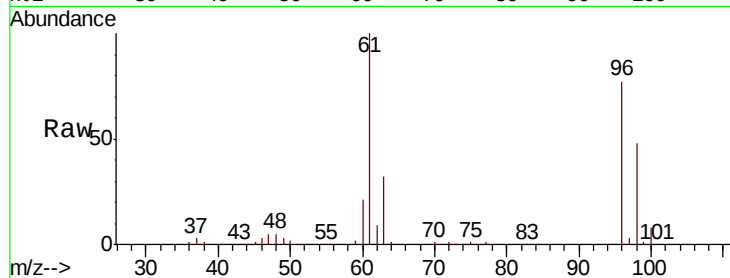
Tot Ion: 96 Resp: 698555

Ion Ratio Lower Upper

96 100

61 129.4 93.4 173.4

68 0.0 0.0 0.0



#27

1,2-Dichloroethane

Concen: 1.125 ug/L

RT: 5.81 min Scan# 1391

Delta R.T. -0.02 min

Lab File: VU038346.D

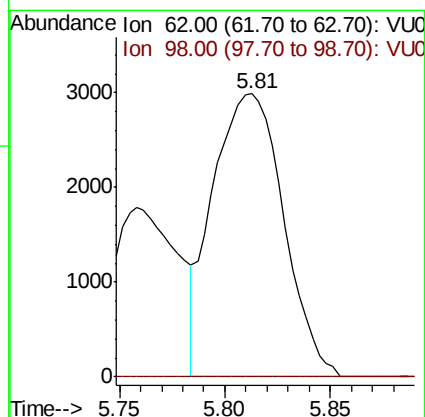
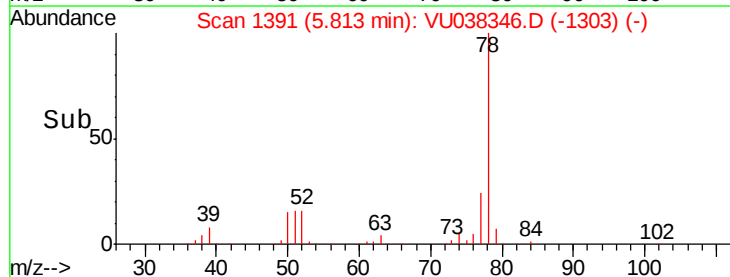
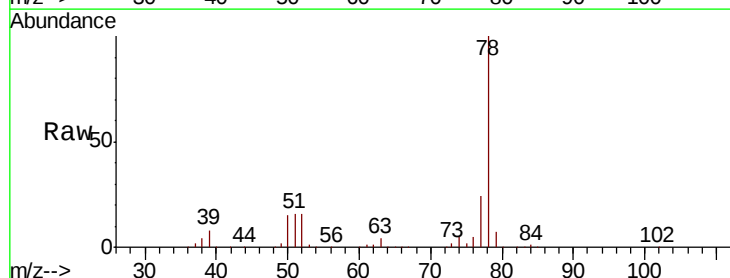
Acq: 28 May 2020 15:30

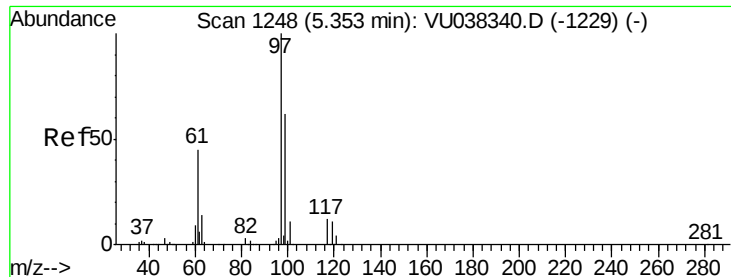
Tgt Ion: 62 Resp: 6970

Ion Ratio Lower Upper

62 100

98 0.0 7.5 11.3#

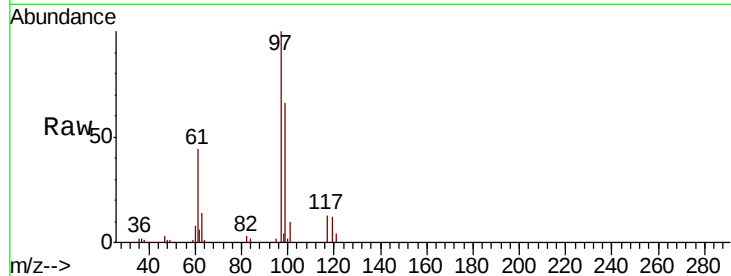




#30
 1,1,1-Trichloroethane
 Concen: 41.344 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038346.D
 Acq: 28 May 2020 15:30

Instrument :
 MSVOA_U
 ClientSampleId :
 ETKW8MSD

Tot Ion	97	Resp	262452
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.2	76.8
61	44.0	35.9	53.9

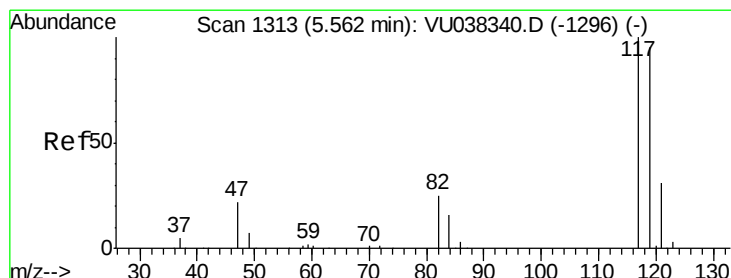
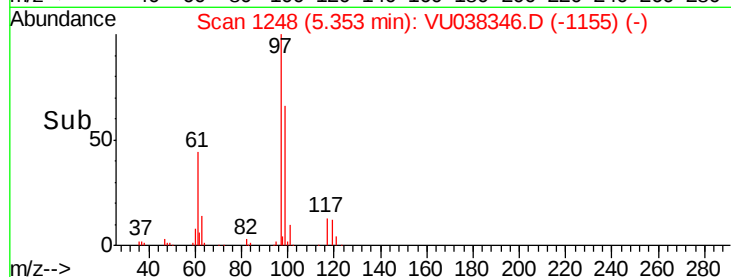
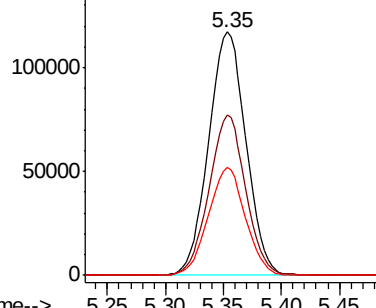


Abundance

Ion 97.00 (96.70 to 97.70): VU038346.D (-1155) (-)

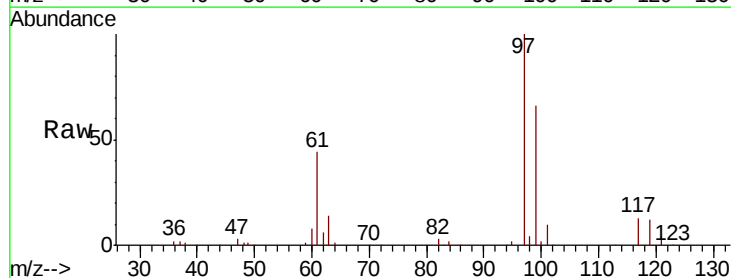
Ion 99.00 (98.70 to 99.70): VU038346.D (-1155) (-)

Ion 61.05 (60.75 to 61.75): VU038346.D (-1155) (-)



#31
 Carbon tetrachloride
 Concen: 6.197 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.21 min
 Lab File: VU038346.D
 Acq: 28 May 2020 15:30

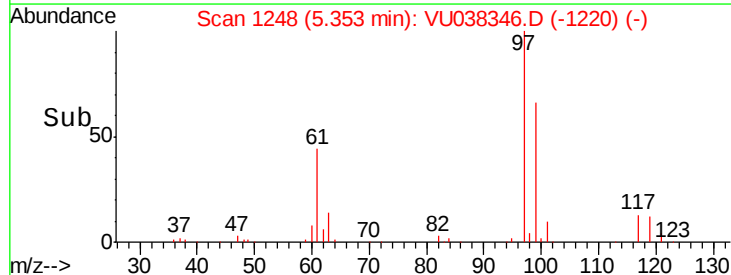
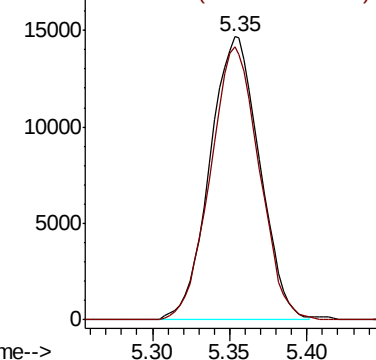
Tgt Ion	117	Resp	32783
Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.6	114.8

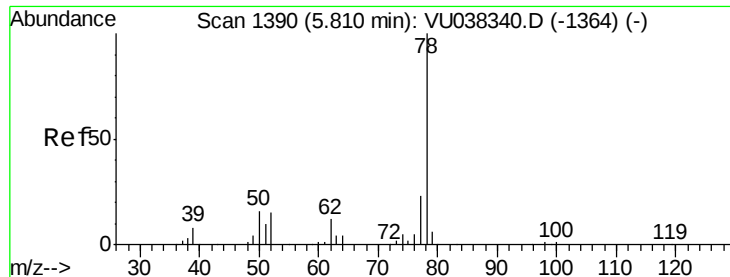


Abundance

Ion 117.00 (116.70 to 117.70): VU038346.D (-1220) (-)

Ion 119.00 (118.70 to 119.70): VU038346.D (-1220) (-)





#33

Benzene

Concen: 44.739 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

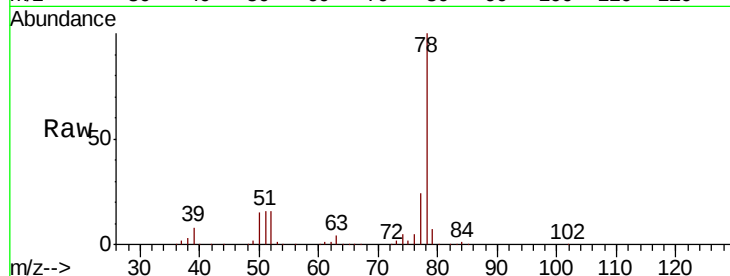
Instrument :

MSVOA_U

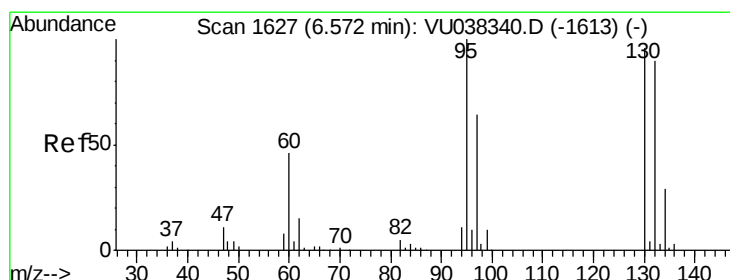
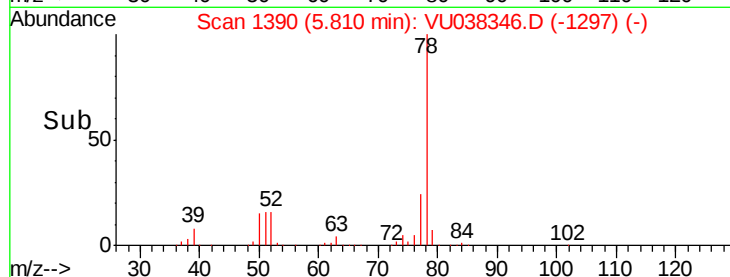
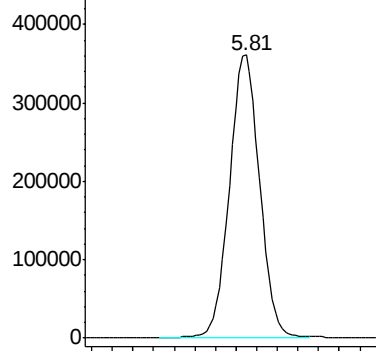
ClientSampleId :

ETKW8MSD

Tgt Ion: 78 Resp: 733522



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 42.954 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

Tgt Ion: 95 Resp: 180187

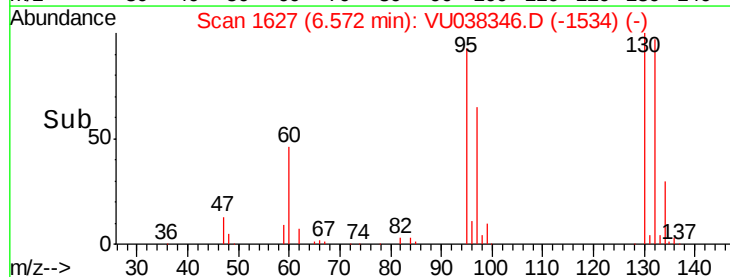
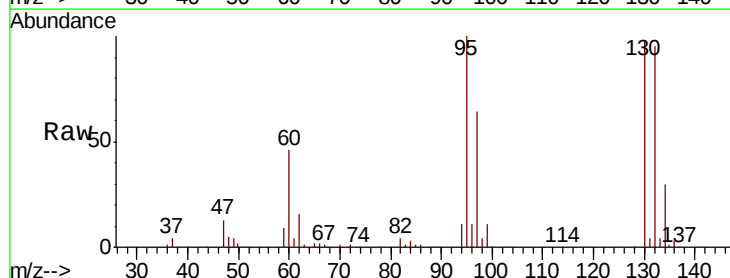
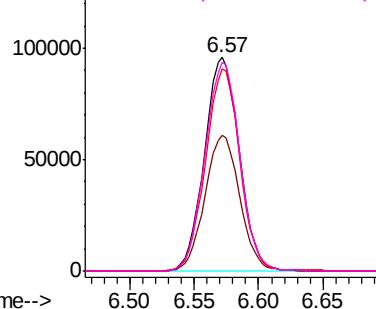
Ion	Ratio	Lower	Upper
95	100		
97	63.8	44.3	82.3
132	94.9	64.7	120.1
130	98.0	68.5	127.1

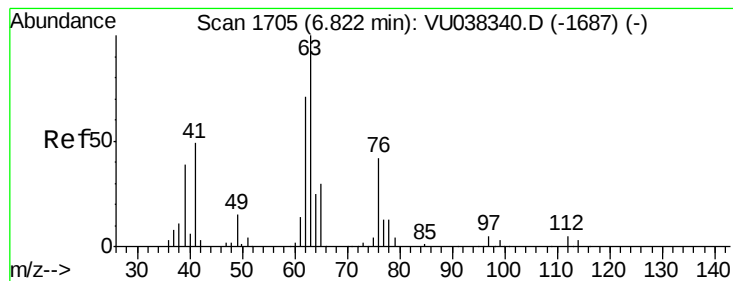
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





#37

1,2-Dichloropropane

Concen: 5.984 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

Instrument :

MSVOA_U

ClientSampled :

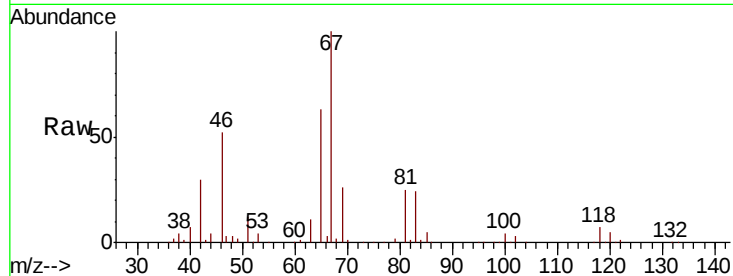
ETKW8MSD

Tot Ion: 63 Resp: 25446

Ion Ratio Lower Upper

63 100

112 0.0 3.6 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VU038340.D (-1687) (-)

Ion 112.00 (111.70 to 112.70): VU038340.D (-1687) (-)

6.72

15000

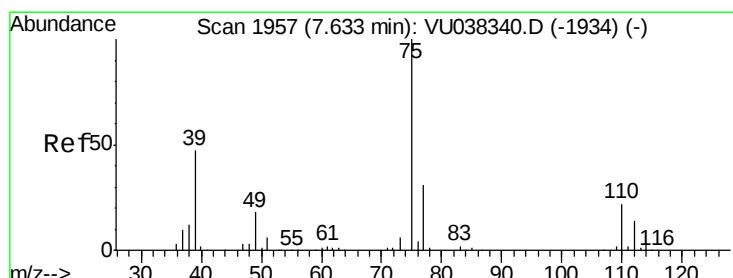
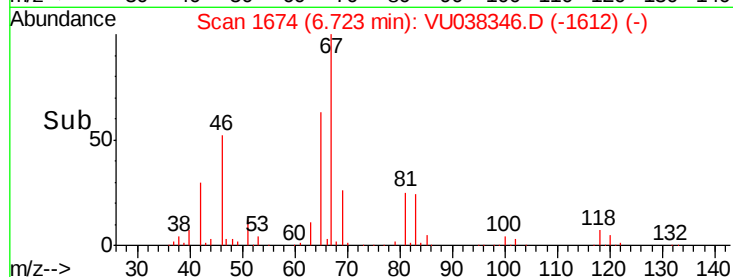
10000

5000

0

Time-->

6.65 6.70 6.75 6.80



#39

cis-1,3-Dichloropropene

Concen: 1.013 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.04 min

Lab File: VU038346.D

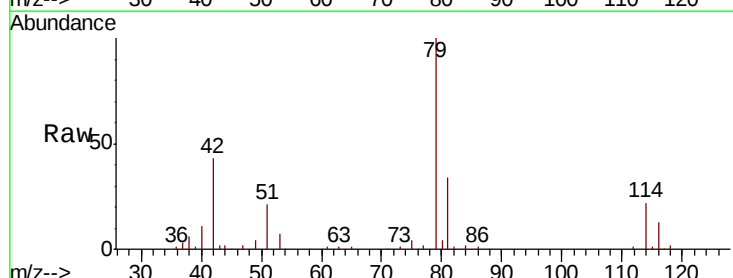
Acq: 28 May 2020 15:30

Tgt Ion: 75 Resp: 6857

Ion Ratio Lower Upper

75 100

77 54.0 21.6 40.0#



Abundance Ion 75.00 (74.70 to 75.70): VU038340.D (-1934) (-)

Ion 77.00 (76.70 to 77.70): VU038340.D (-1934) (-)

7.59

4000

3000

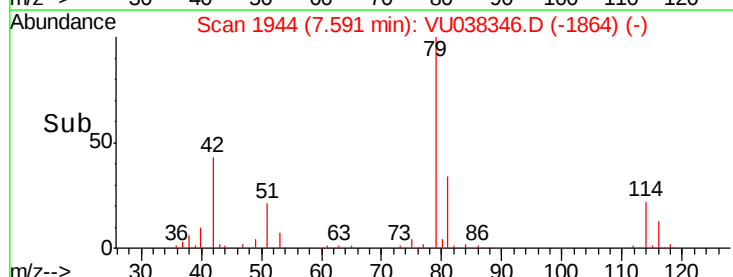
2000

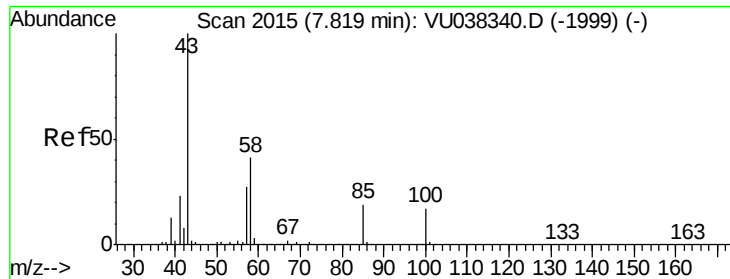
1000

0

Time-->

7.55 7.60

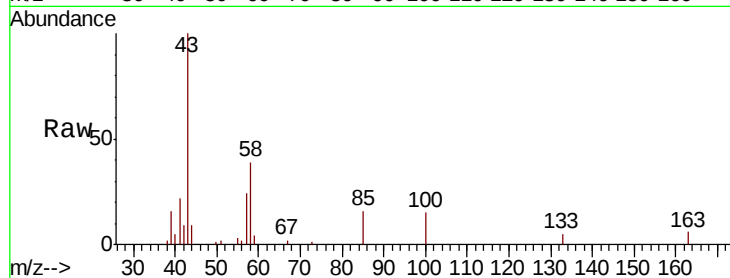




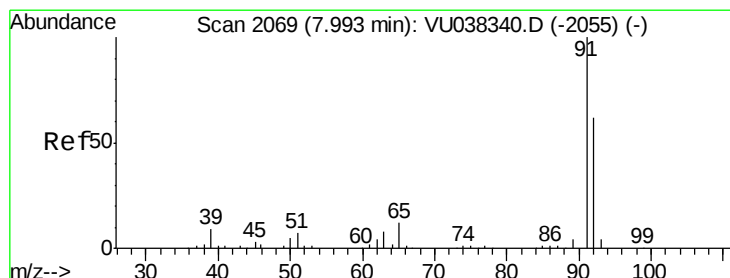
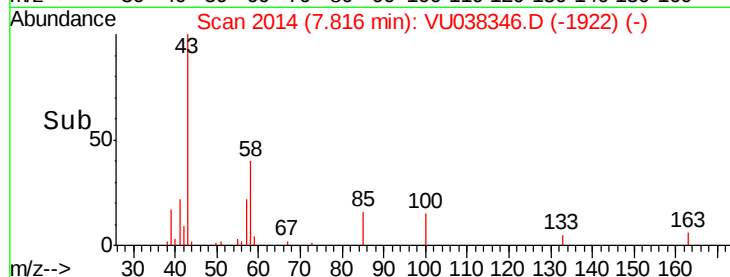
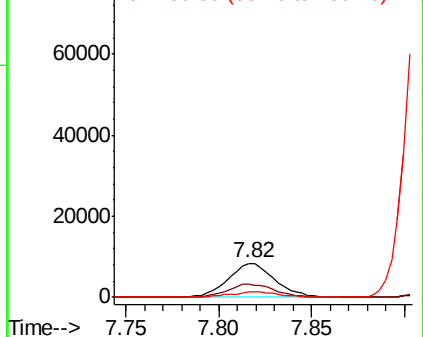
#40
4-Methyl-2-pentanone
Concen: 2.160 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. -0.00 min
Lab File: VU038346.D
Acq: 28 May 2020 15:30

Instrument :
MSVOA_U
ClientSampleId :
ETKW8MSD

Tot Ion: 43 Resp: 14609
Ion Ratio Lower Upper
43 100
58 39.7 32.6 48.8
100 16.3 12.9 19.3

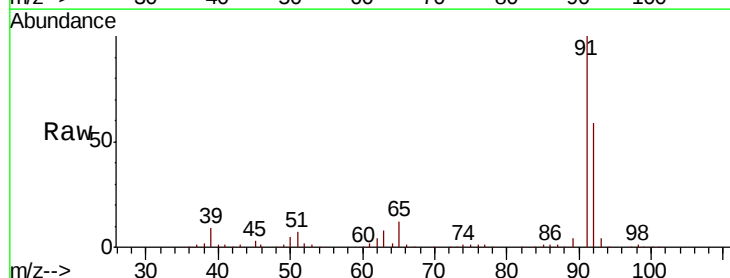


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

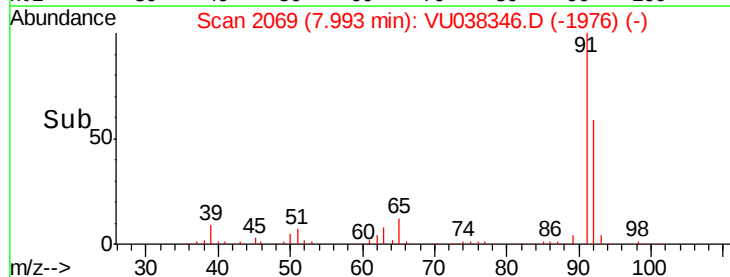
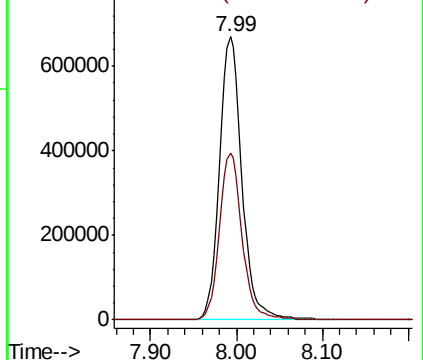


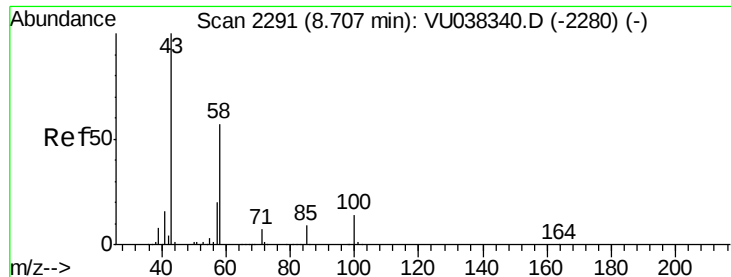
#42
Toluene
Concen: 70.781 ug/L
RT: 7.99 min Scan# 2069
Delta R.T. -0.00 min
Lab File: VU038346.D
Acq: 28 May 2020 15:30

Tgt Ion: 91 Resp: 1218365
Ion Ratio Lower Upper
91 100
92 59.2 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0

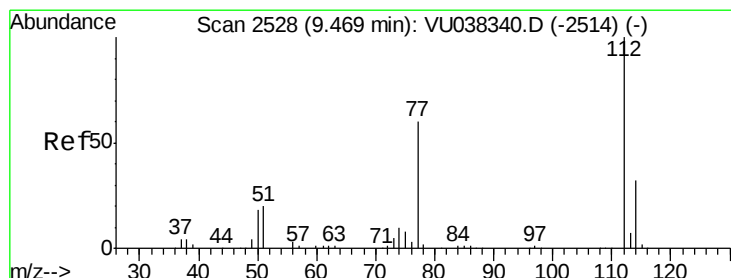
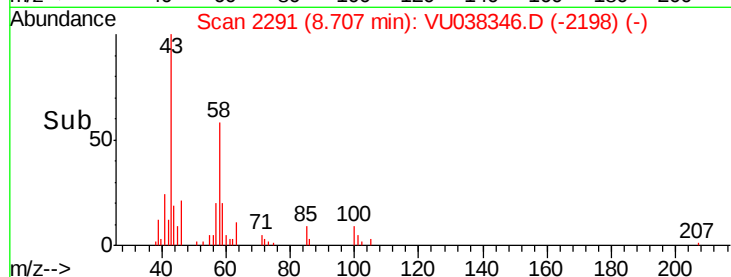
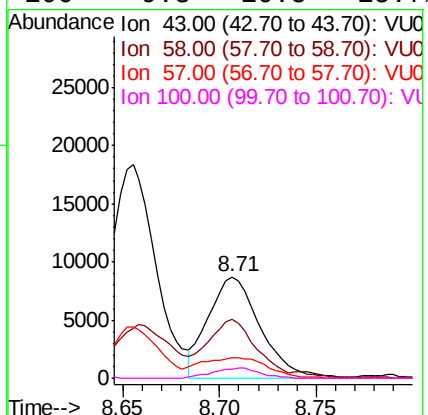
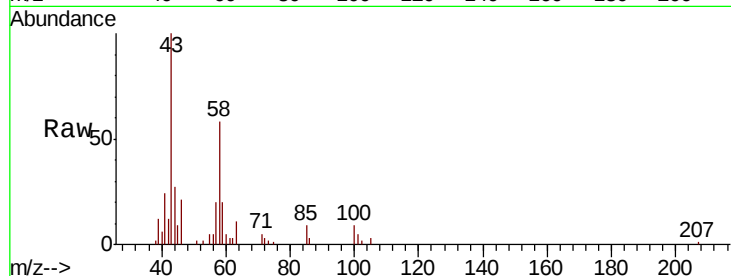




#48
2-Hexanone
Concen: 2.862 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038346.D
Acq: 28 May 2020 15:30

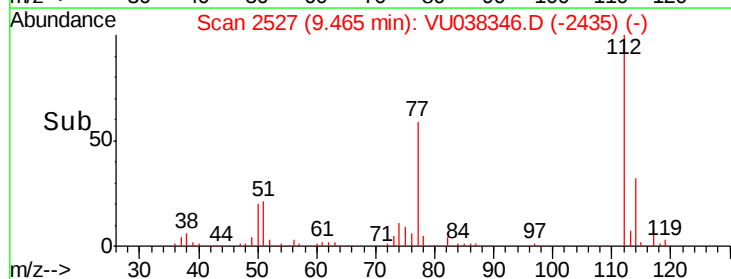
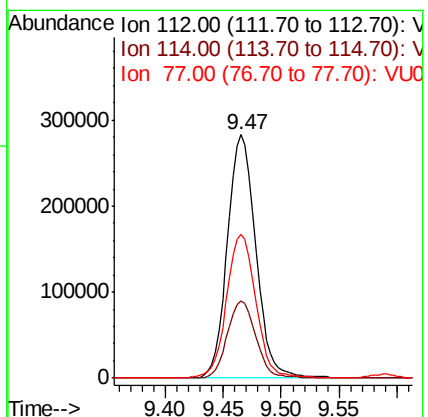
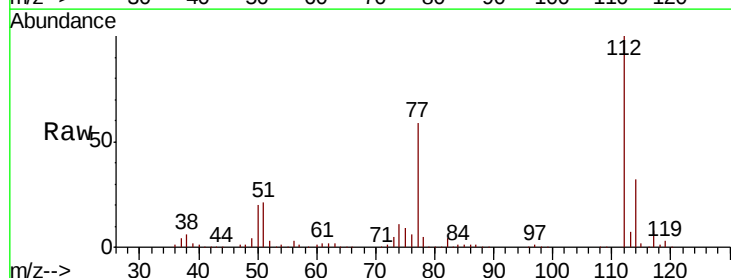
Instrument :
MSVOA_U
ClientSampleId :
ETKW8MSD

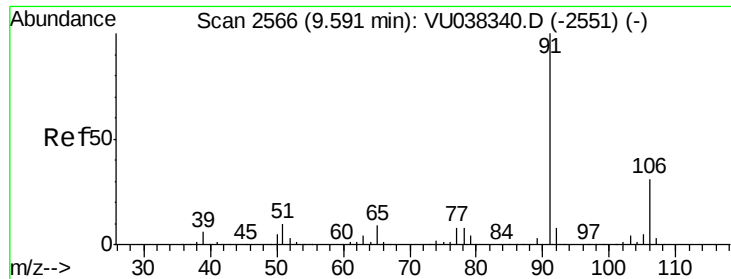
Tot Ion: 43 Resp: 16342
Ion Ratio Lower Upper
43 100
58 52.6 45.5 68.3
57 26.4 16.3 24.5#
100 9.3 10.5 15.7#



#51
Chlorobenzene
Concen: 43.533 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038346.D
Acq: 28 May 2020 15:30

Tgt Ion: 112 Resp: 481593
Ion Ratio Lower Upper
112 100
114 31.9 22.6 42.0
77 59.1 48.8 73.2





#52

Ethylbenzene

Concen: 4.429 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038346.D

Acq: 28 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

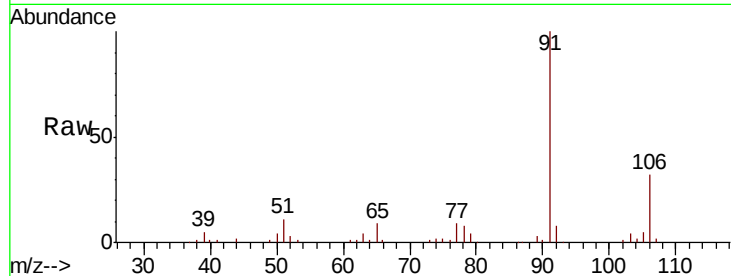
ETKW8MSD

Tot Ion: 91 Resp: 85412

Ion Ratio Lower Upper

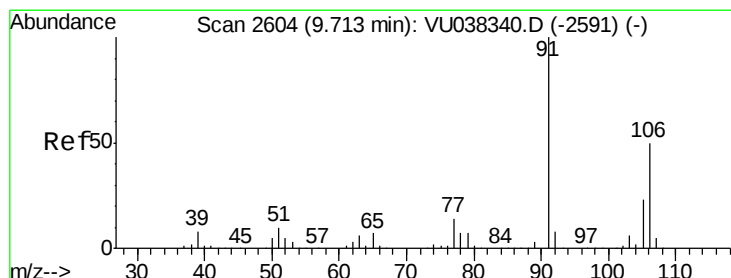
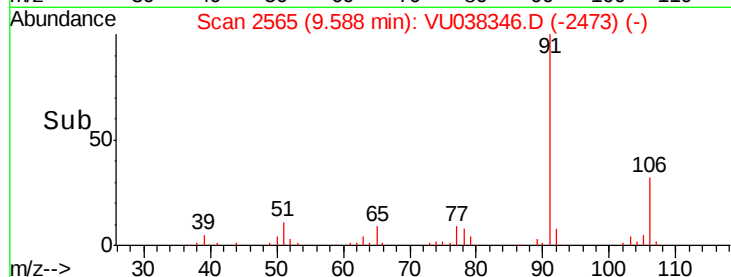
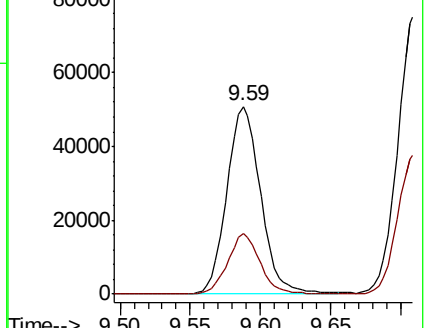
91 100

106 32.1 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038340.D (-2551) (-)

Ion 106.00 (105.70 to 106.70): VU038340.D (-2551) (-)



#53

m,p-Xylene

Concen: 8.885 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038346.D

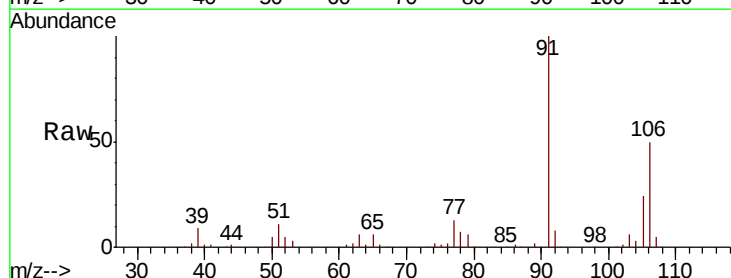
Acq: 28 May 2020 15:30

Tgt Ion: 106 Resp: 65533

Ion Ratio Lower Upper

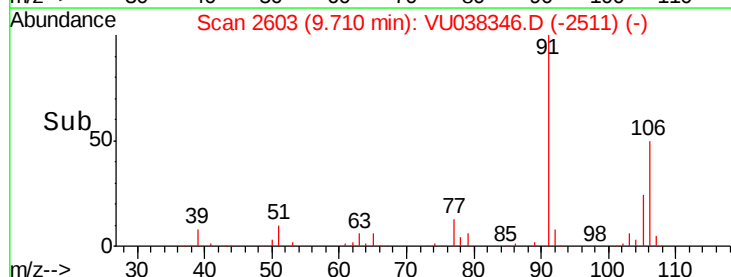
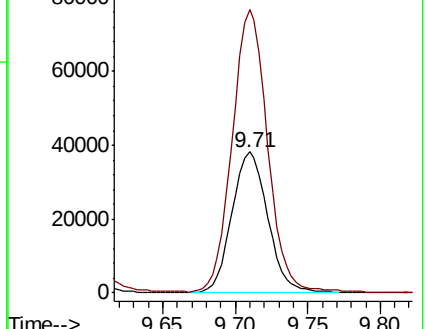
106 100

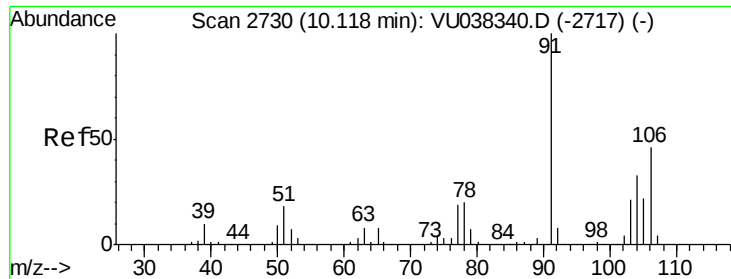
91 200.9 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038340.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VU038340.D (-2591) (-)

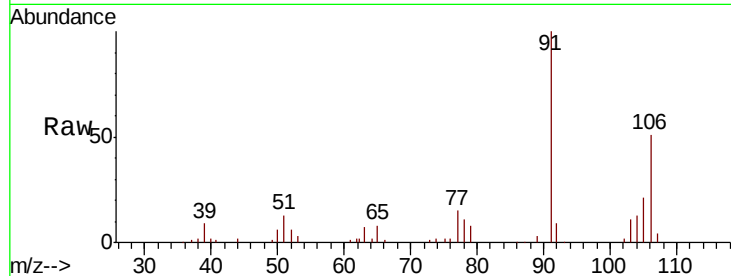




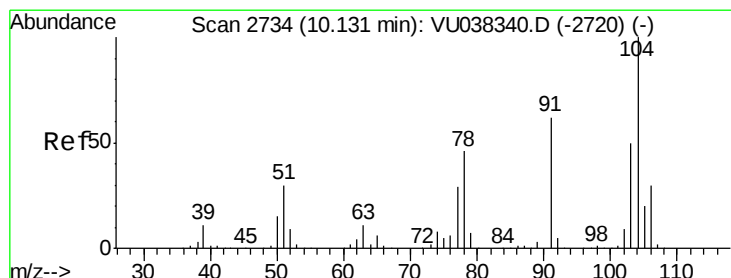
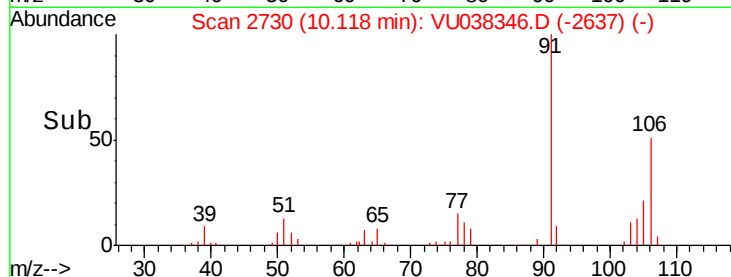
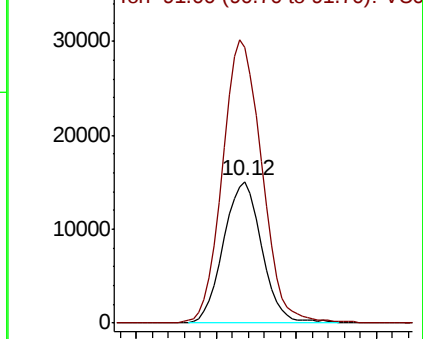
#54
o-xylene
Concen: 3.436 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU038346.D
Acq: 28 May 2020 15:30

Instrument :
MSVOA_U
ClientSampleId :
ETKW8MSD

Tot Ion:106 Resp: 24638
Ion Ratio Lower Upper
106 100
91 194.5 151.3 280.9

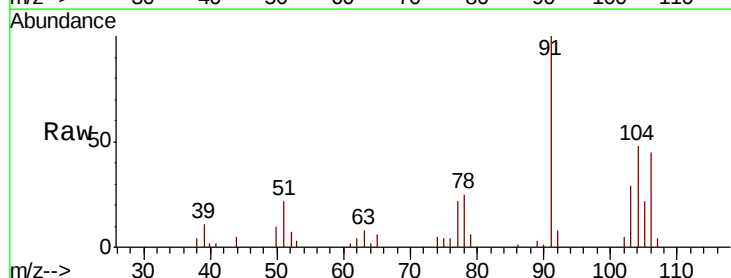


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

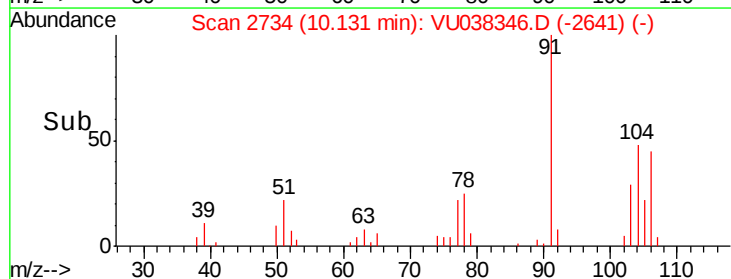
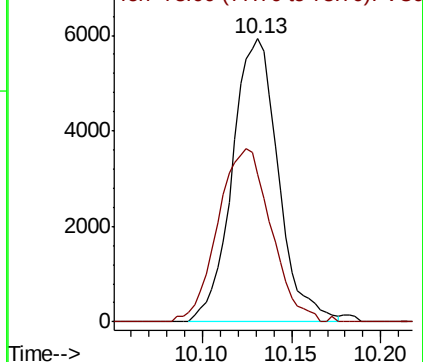


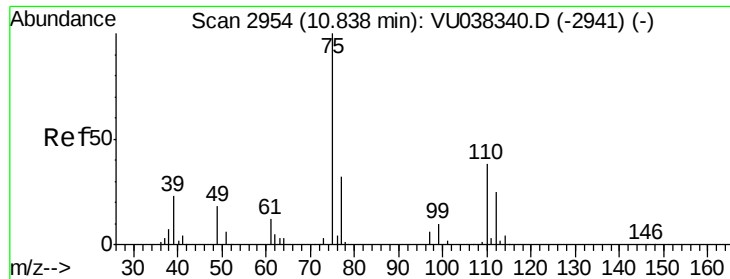
#55
Styrene
Concen: 0.865 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU038346.D
Acq: 28 May 2020 15:30

Tgt Ion:104 Resp: 10660
Ion Ratio Lower Upper
104 100
78 52.3 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0

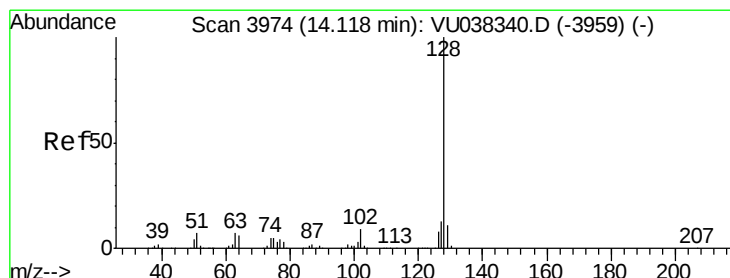
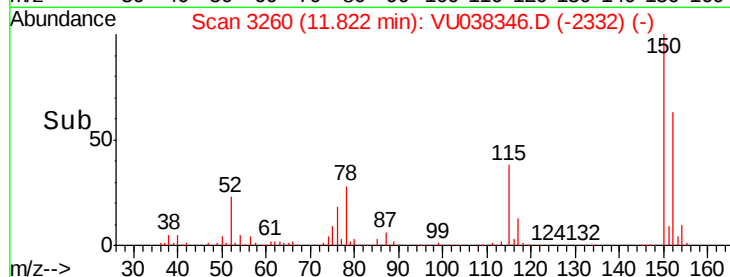
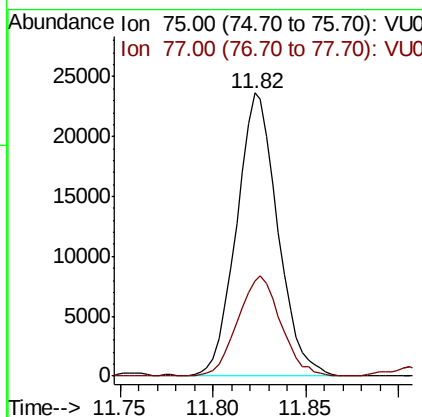
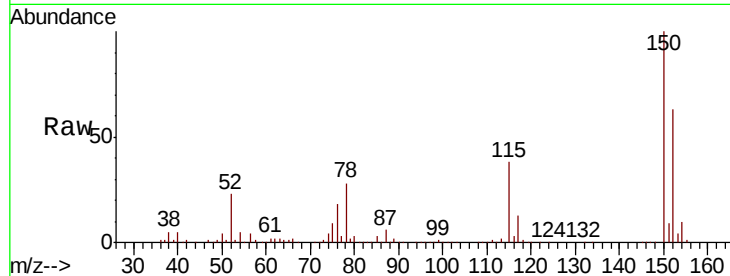




#59
 1,2,3-Trichloropropane
 Concen: 6.127 ug/L
 RT: 11.82 min Scan# 3260
 Delta R.T. 0.98 min
 Lab File: VU038346.D
 Acq: 28 May 2020 15:30

Instrument :
 MSVOA_U
 ClientSampleId :
 ETKW8MSD

Tot Ion: 75 Resp: 36432
 Ion Ratio Lower Upper
 75 100
 77 36.9 25.8 38.8



#69
 Naphthalene
 Concen: 42.886 ug/L
 RT: 14.11 min Scan# 3973
 Delta R.T. -0.00 min
 Lab File: VU038346.D
 Acq: 28 May 2020 15:30

Tgt Ion: 128 Resp: 860061
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.4 15.6
 129 10.5 8.6 12.8

