

Data File : VU036697.D
Acq On : 07 Feb 2020 12:50
Operator : JC/MD
Sample : MDL04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Quant Time: Feb 07 22:39:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 07 22:36:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	259106	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	240942	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	104256	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	78508	45.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.86%
7) Chloroethane-d5	1.93	69	74563	46.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.08%
11) 1,1-Dichloroethene-d2	2.59	63	112299	34.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.84%
21) 2-Butanone-d5	4.68	46	160149	108.63	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.63%
24) Chloroform-d	5.11	84	147990	47.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.64%
26) 1,2-Dichloroethane-d4	5.75	65	104314	48.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.54%
32) Benzene-d6	5.77	84	309336	48.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.66%
36) 1,2-Dichloropropane-d6	6.73	67	104971	49.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.84%
41) Toluene-d8	7.93	98	279941	48.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.52%
43) trans-1,3-Dichloropropene-	8.21	79	47952	47.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.26%
47) 2-Hexanone-d5	8.67	63	125978	104.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.97%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	151108	48.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.52%
66) 1,2-Dichlorobenzene-d4	12.21	152	97308	51.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.74%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	4420	2.469 ug/L	96
3) Chloromethane	1.54	50	5230	2.465 ug/L	99
5) Vinyl chloride	1.62	62	5773	2.527 ug/L #	73
6) Bromomethane	1.87	94	3377	2.358 ug/L	84
8) Chloroethane	1.95	64	3958	2.730 ug/L	85
9) Trichlorofluoromethane	2.16	101	6324	2.330 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4875	2.999 ug/L #	85
12) 1,1-Dichloroethene	2.60	96	4783	3.022 ug/L #	1
13) Acetone	2.66	43	10121	6.463 ug/L	97
14) Carbon disulfide	2.82	76	11358	2.401 ug/L	100
15) Methyl Acetate	2.99	43	5642	2.492 ug/L	99
16) Methylene chloride	3.08	84	5631	2.882 ug/L	89
17) trans-1,2-Dichloroethene	3.39	96	4024	2.389 ug/L	90
18) Methyl tert-butyl Ether	3.41	73	14423	2.468 ug/L	98
19) 1,1-Dichloroethane	3.92	63	8185	2.439 ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	4705	2.452 ug/L	96
22) 2-Butanone	4.77	43	10497	5.647 ug/L	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2052	2.282	ug/L	84
25) Chloroform	5.13	83	9670	2.963	ug/L	97
27) 1,2-Dichloroethane	5.84	62	6863	2.501	ug/L	96
29) Cyclohexane	5.43	56	7465	2.412	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	6332	2.474	ug/L	99
31) Carbon tetrachloride	5.57	117	5038	2.431	ug/L	95
33) Benzene	5.82	78	18749	2.573	ug/L	100
34) Trichloroethene	6.58	95	4525	2.511	ug/L	92
35) Methylcyclohexane	6.80	83	7250	2.284	ug/L	96
37) 1,2-Dichloropropane	6.83	63	4881	2.484	ug/L #	88
38) Bromodichloromethane	7.14	83	5745	2.406	ug/L	93
39) cis-1,3-Dichloropropene	7.64	75	7694	2.450	ug/L	91
40) 4-Methyl-2-pentanone	7.83	43	15527	5.001	ug/L	99
42) Toluene	8.00	91	19381	2.461	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	6785	2.474	ug/L	96
45) 1,1,2-Trichloroethane	8.43	97	4238	2.364	ug/L	98
46) Tetrachloroethene	8.59	164	3524	2.787	ug/L	95
48) 2-Hexanone	8.72	43	14407	5.688	ug/L	99
49) Dibromochloromethane	8.84	129	4303	2.454	ug/L	94
50) 1,2-Dibromoethane	8.95	107	4106	2.180	ug/L #	92
51) Chlorobenzene	9.47	112	12059	2.543	ug/L	98
52) Ethylbenzene	9.60	91	20446	2.363	ug/L	99
53) m,p-Xylene	9.72	106	7483	2.344	ug/L	100
54) o-xylene	10.12	106	7072	2.236	ug/L	92
55) Styrene	10.14	104	11349	2.154	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.81	83	8051	2.492	ug/L #	96
59) Bromoform	10.32	173	2509	2.178	ug/L #	94
60) 1,2,3-Trichloropropane	10.85	75	6387	2.604	ug/L	98
61) Isopropylbenzene	10.51	105	18300	2.357	ug/L	97
62) 1,3,5-Trimethylbenzene	11.11	105	15701	2.359	ug/L	98
63) 1,2,4-Trimethylbenzene	11.49	105	15627	2.351	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	7811	2.393	ug/L	98
65) 1,4-Dichlorobenzene	11.86	146	8704	2.648	ug/L	96
67) 1,2-Dichlorobenzene	12.23	146	8485	2.567	ug/L	96
68) 1,2-Dibromo-3-chloropropan	13.01	75	1727	2.464	ug/L	93
69) 1,3,5-Trichlorobenzene	13.24	180	5370	2.372	ug/L	96
70) 1,2,4-trichlorobenzene	13.85	180	4084	2.163	ug/L	99
71) Naphthalene	14.10	128	12927	1.943	ug/L	97
72) 1,2,3-Trichlorobenzene	14.35	180	4181	2.223	ug/L	96

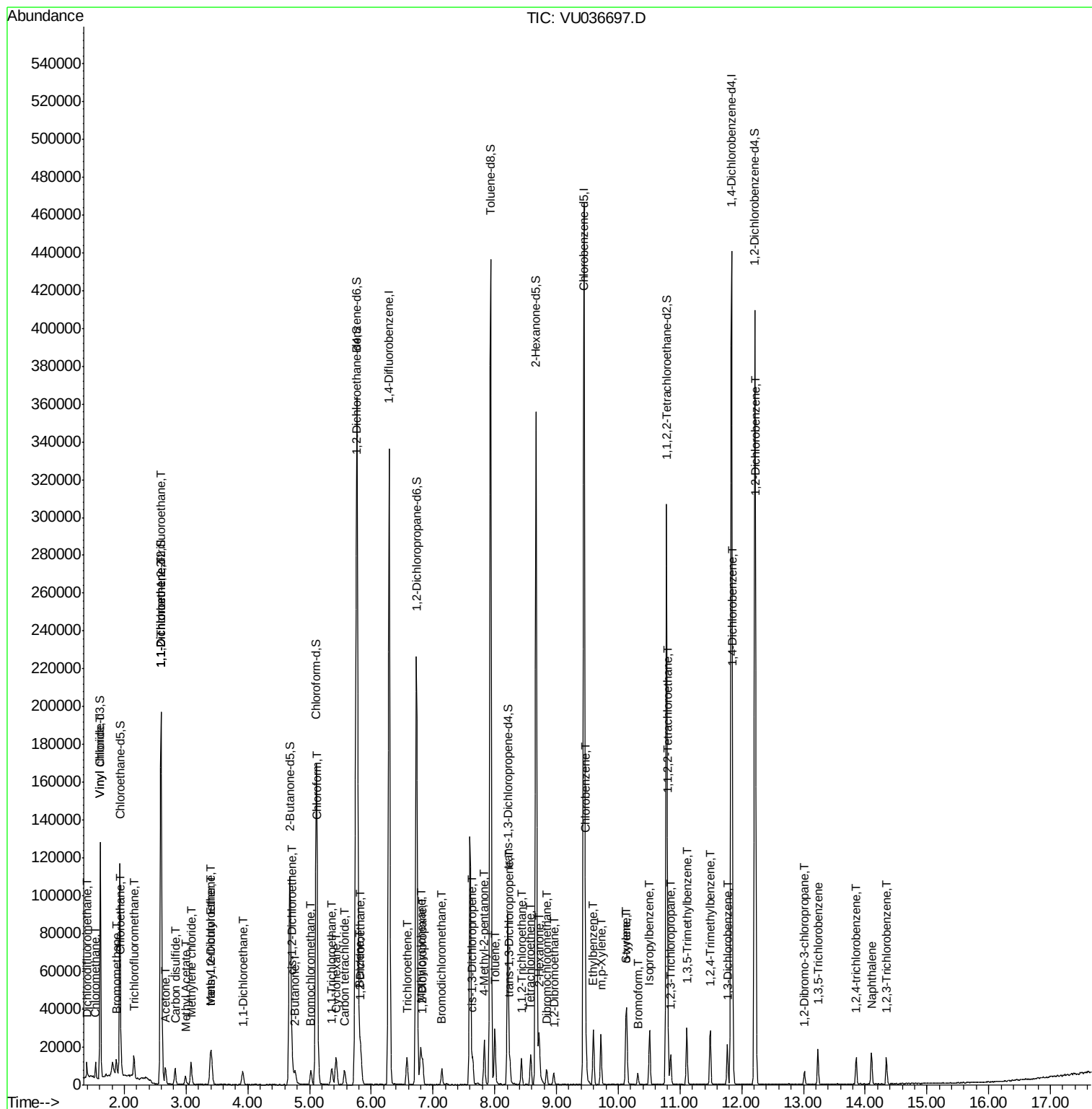
(#) = qualifier out of range (m) = manual integration (+) = signals summed

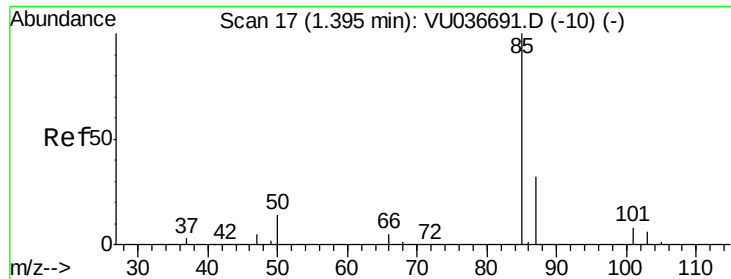
Data File : VU036697.D

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#2

Dichlorodifluoromethane

Concen: 2.469 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

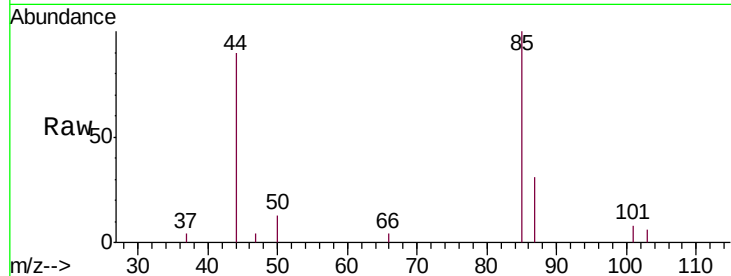
MDL04

Tgt Ion: 85 Resp: 4420

Ion Ratio Lower Upper

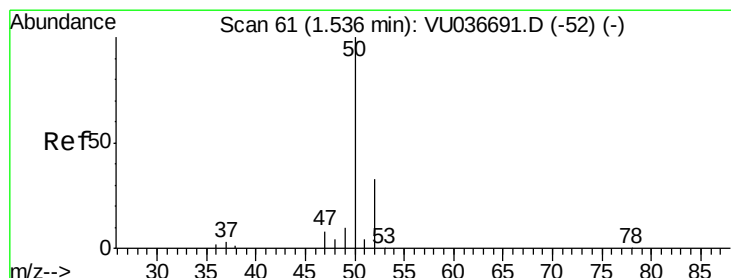
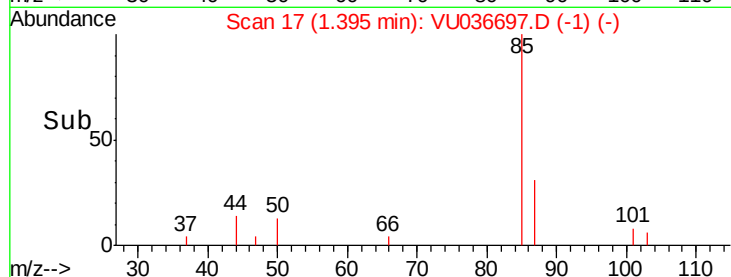
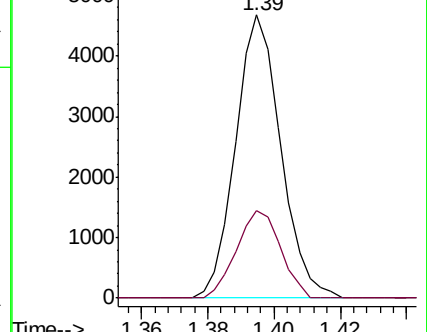
85 100

87 30.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036697.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036697.D (-10) (-)



#3

Chloromethane

Concen: 2.465 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036697.D

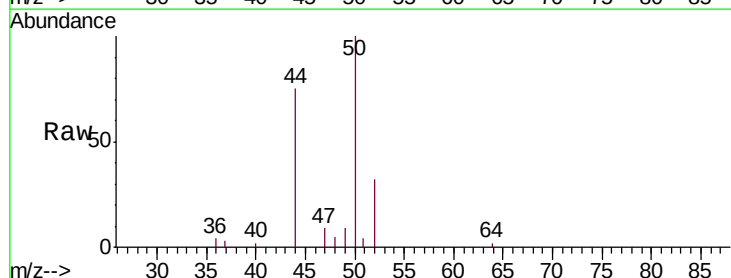
Acq: 07 Feb 2020 12:50

Tgt Ion: 50 Resp: 5230

Ion Ratio Lower Upper

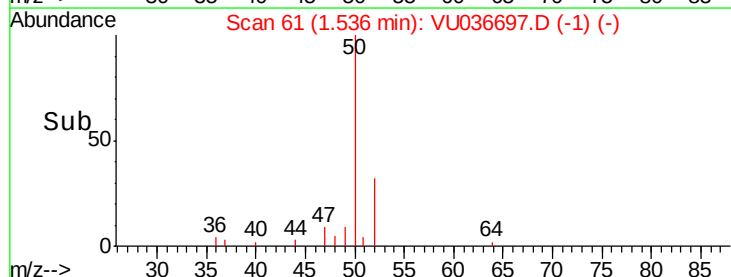
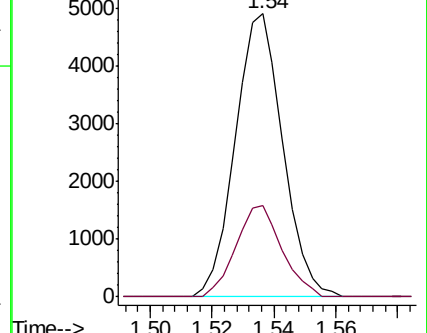
50 100

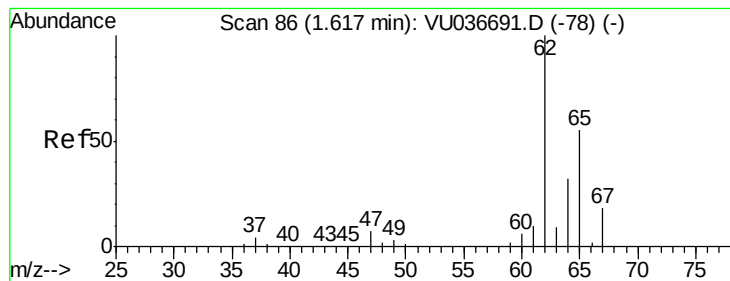
52 32.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036697.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU036697.D (-52) (-)





#5

Vinyl chloride

Concen: 2.527 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

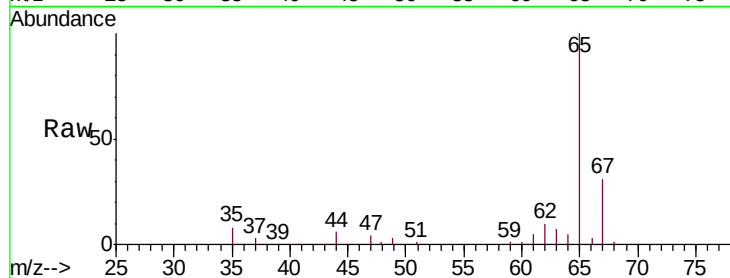
MDL04

Tgt Ion: 62 Resp: 5773

Ion Ratio Lower Upper

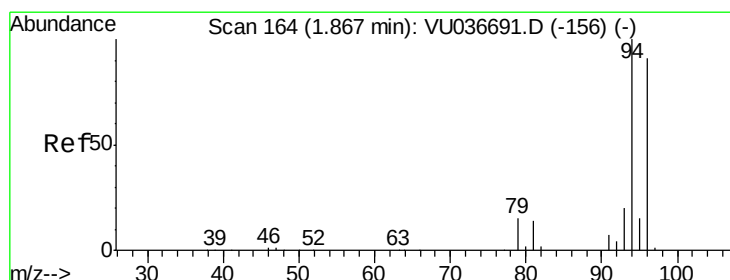
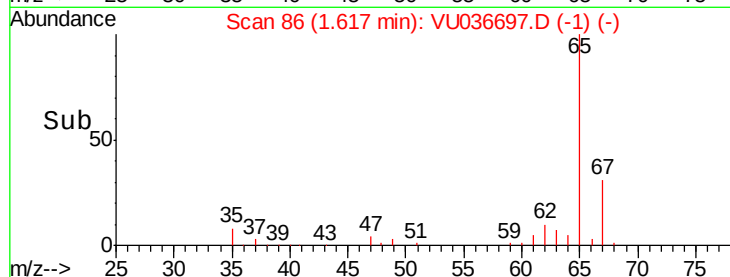
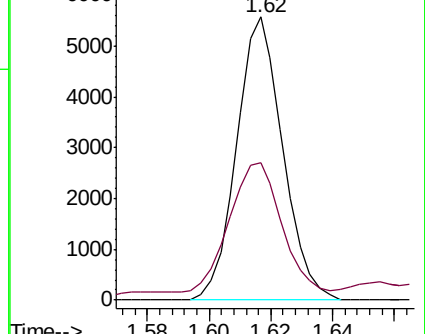
62 100

64 48.6 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.358 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036697.D

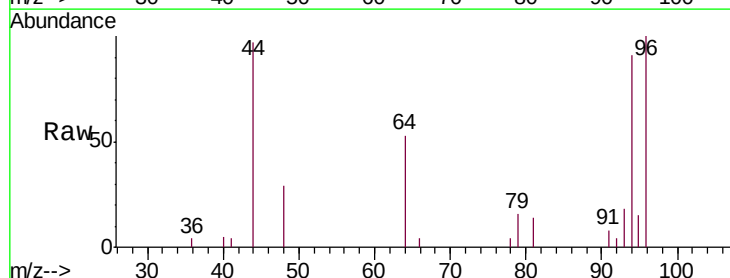
Acq: 07 Feb 2020 12:50

Tgt Ion: 94 Resp: 3377

Ion Ratio Lower Upper

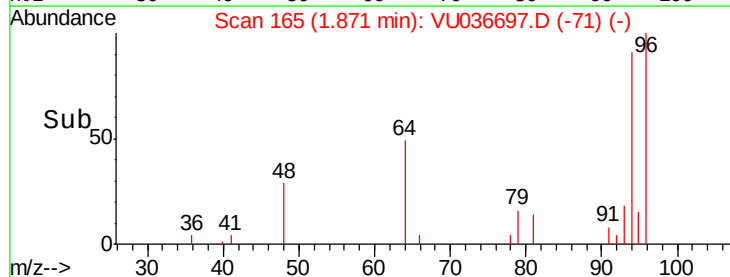
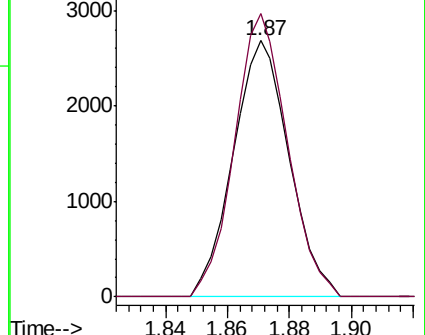
94 100

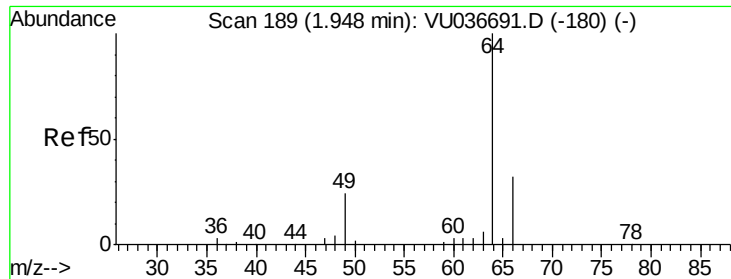
96 110.4 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

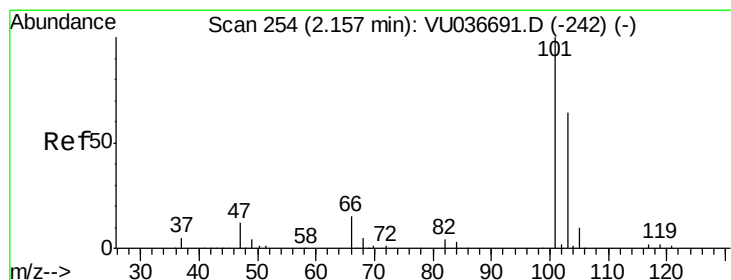
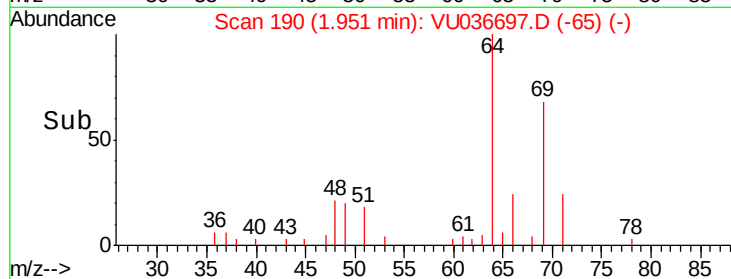
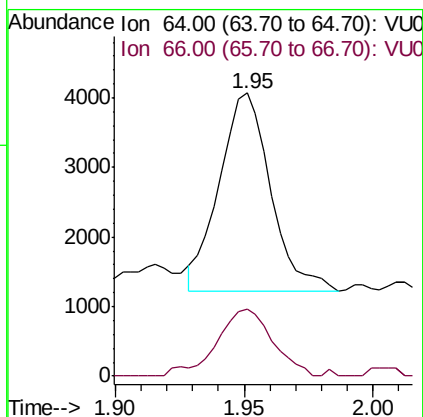
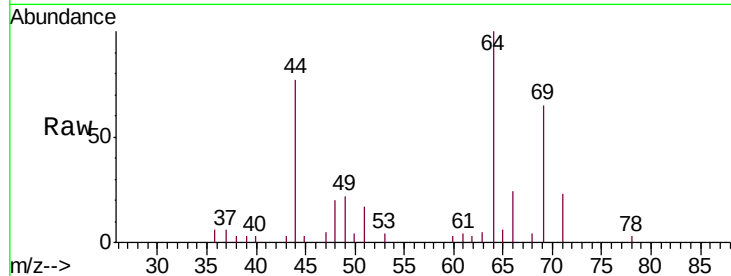




#8
Chloroethane
Concen: 2.730 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

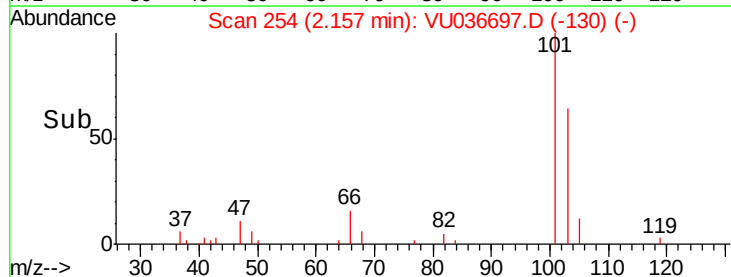
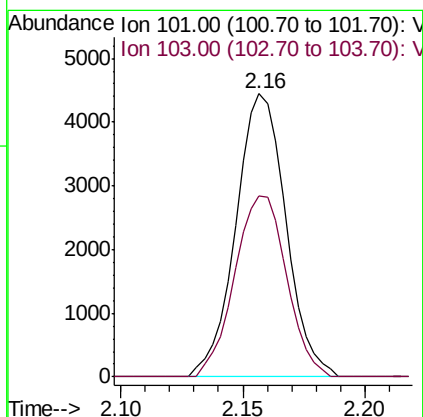
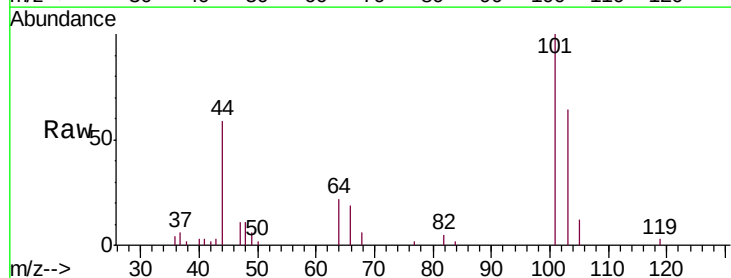
Instrument :
MSVOA_U
ClientSampleId :
MDL04

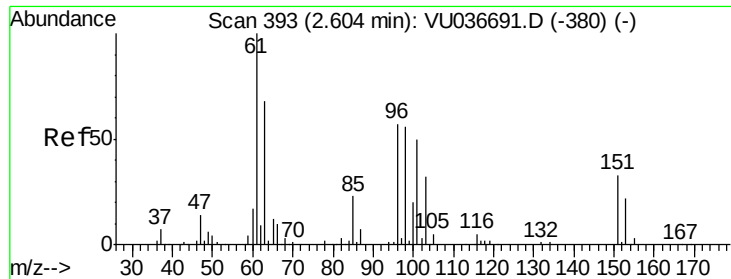
Tgt Ion: 64 Resp: 3958
Ion Ratio Lower Upper
64 100
66 23.5 22.1 41.1



#9
Trichlorofluoromethane
Concen: 2.330 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion: 101 Resp: 6324
Ion Ratio Lower Upper
101 100
103 66.3 51.6 77.4





#10

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

Concen: 2.999 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

MDL04

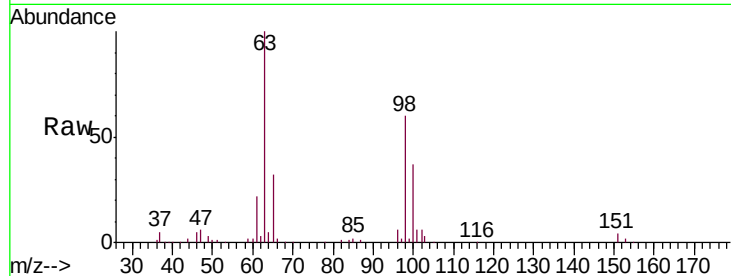
Tgt Ion:101 Resp: 4875

Ion Ratio Lower Upper

101 100

85 34.7 36.5 54.7#

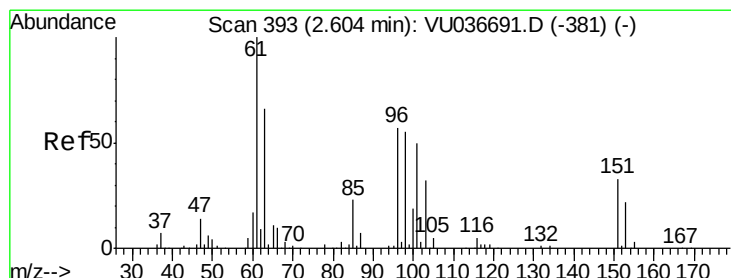
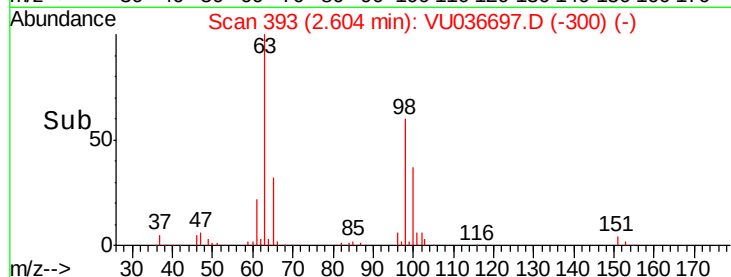
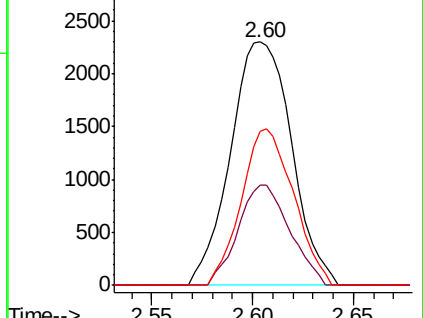
151 54.8 52.6 78.8



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: 3.022 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

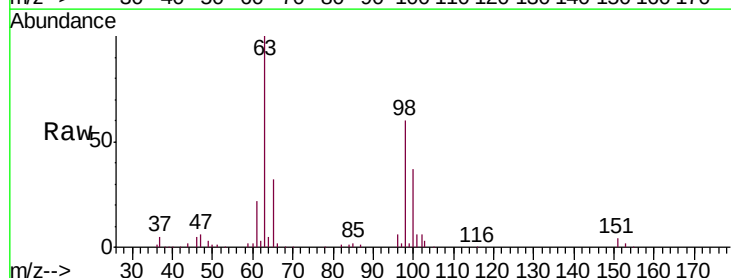
Tgt Ion: 96 Resp: 4783

Ion Ratio Lower Upper

96 100

61 348.6 124.4 231.0#

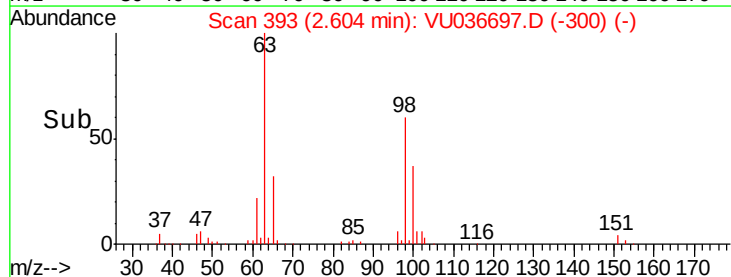
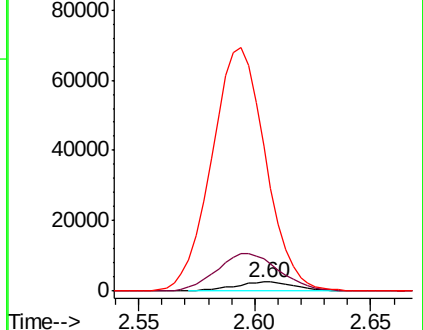
63 1572.9 83.4 155.0#

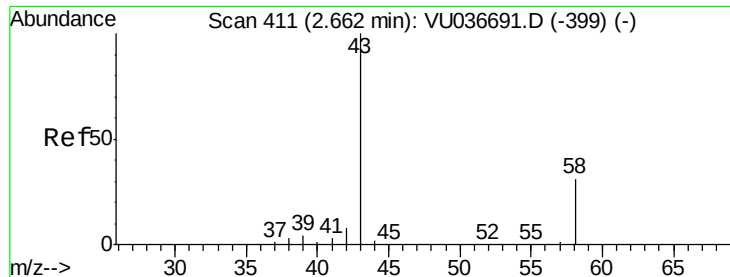


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.463 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampled :

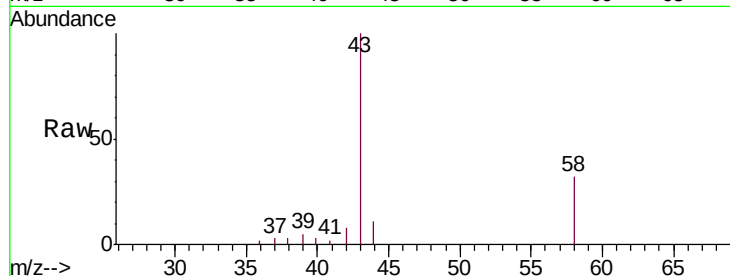
MDL04

Tgt Ion: 43 Resp: 10121

Ion Ratio Lower Upper

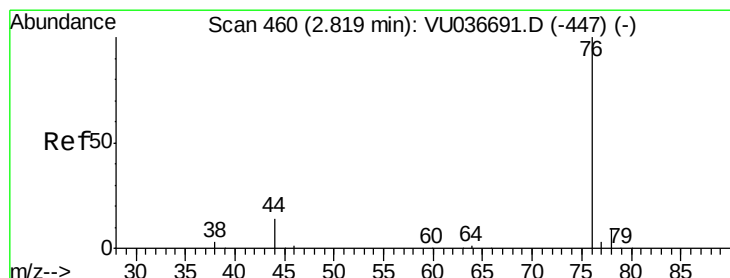
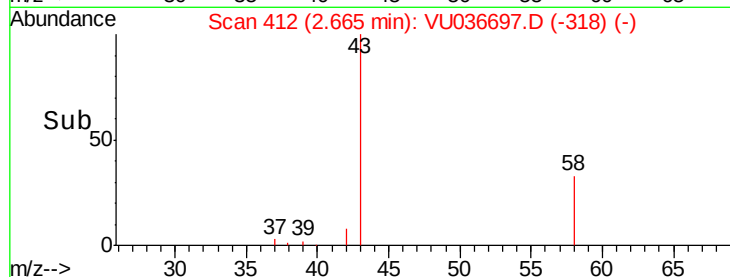
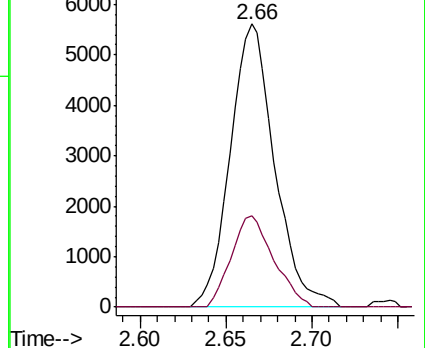
43 100

58 30.6 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036697.D (-399) (-)

Ion 58.00 (57.70 to 58.70): VU036697.D (-399) (-)



#14

Carbon disulfide

Concen: 2.401 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036697.D

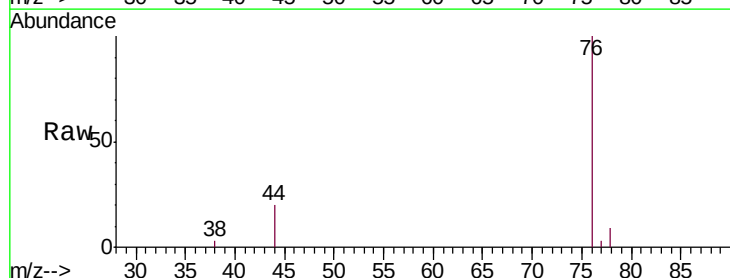
Acq: 07 Feb 2020 12:50

Tgt Ion: 76 Resp: 11358

Ion Ratio Lower Upper

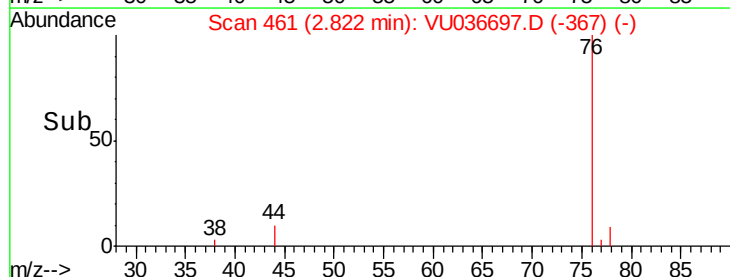
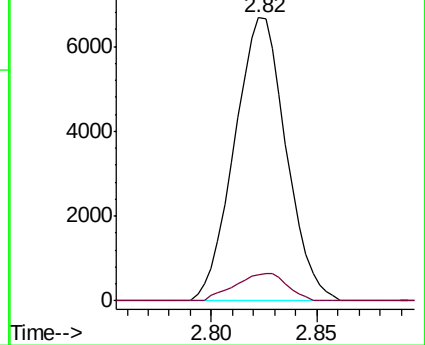
76 100

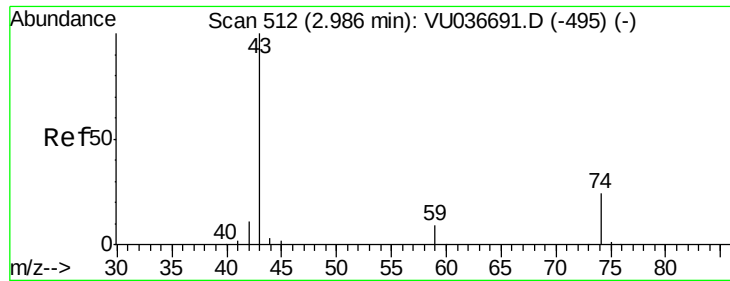
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036697.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036697.D (-367) (-)

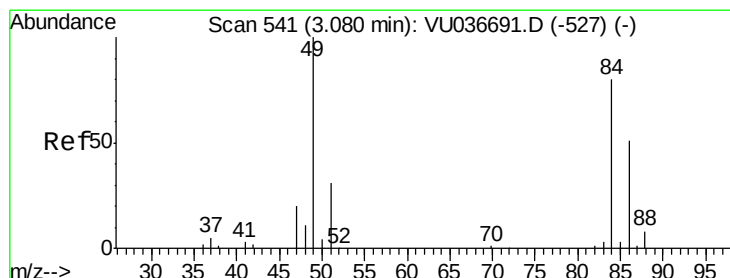
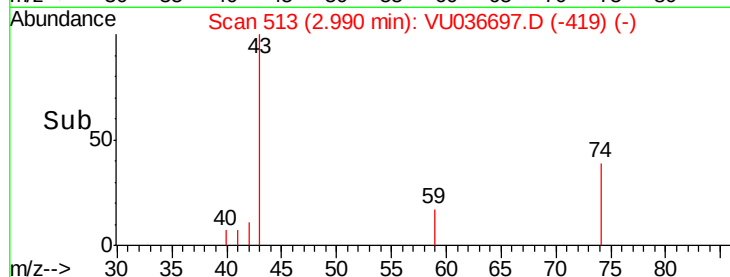
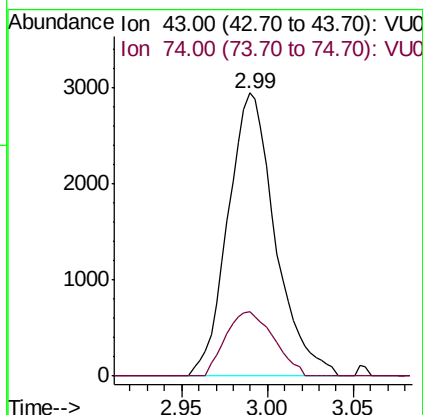
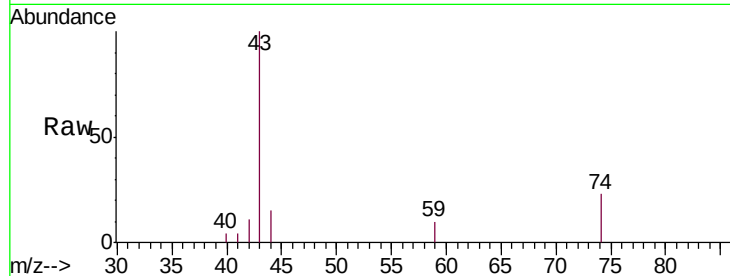




#15
Methyl Acetate
Concen: 2.492 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

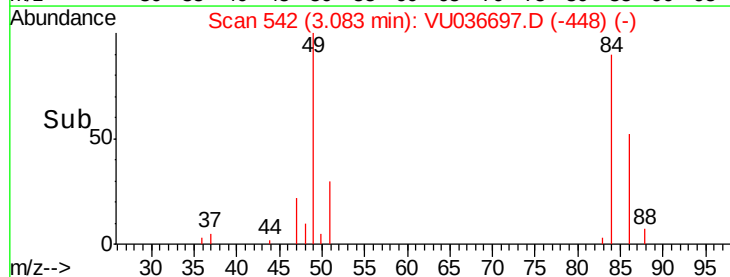
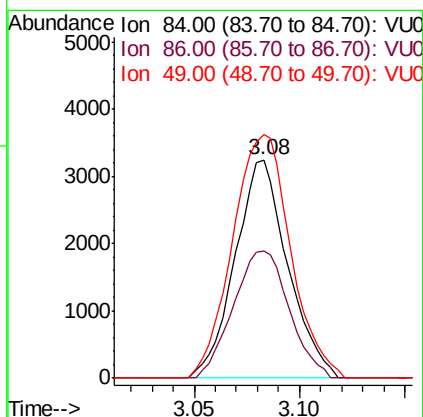
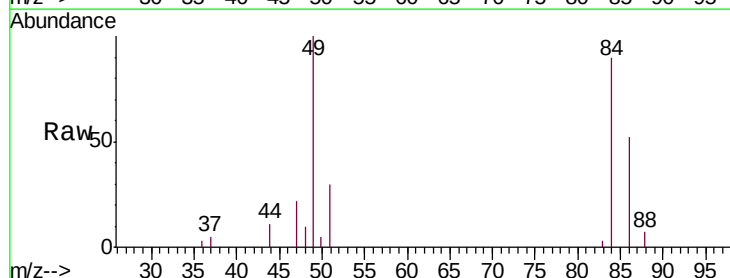
Instrument :
MSVOA_U
ClientSampled :
MDL04

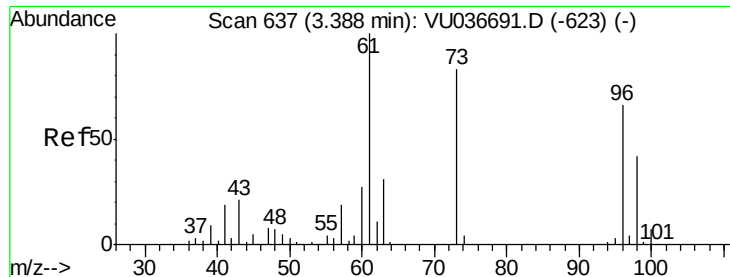
Tgt Ion: 43 Resp: 5642
Ion Ratio Lower Upper
43 100
74 23.1 18.7 28.1



#16
Methylene chloride
Concen: 2.882 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion: 84 Resp: 5631
Ion Ratio Lower Upper
84 100
86 58.3 44.4 82.5
49 111.6 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.389 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

MDL04

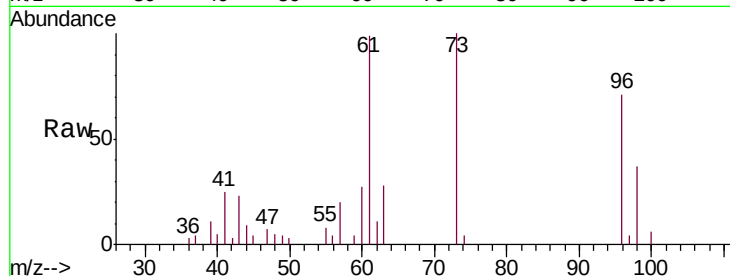
Tgt Ion: 96 Resp: 4024

Ion Ratio Lower Upper

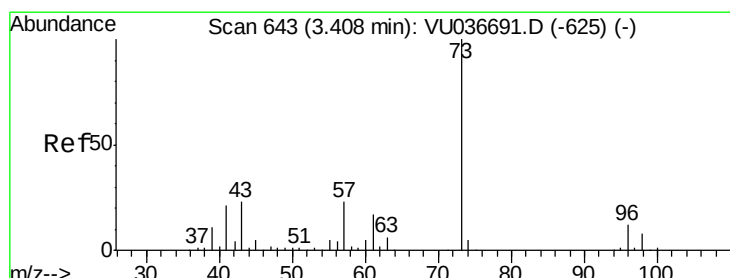
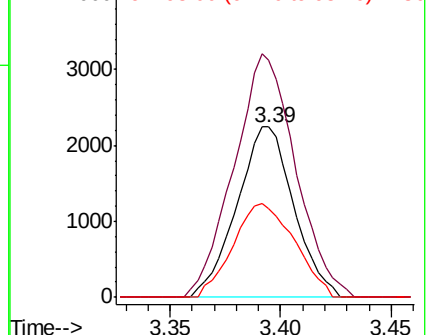
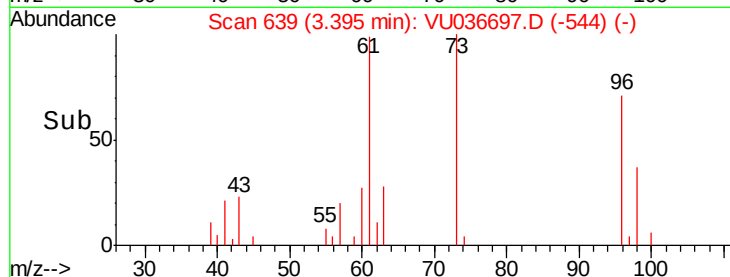
96 100

61 138.9 103.4 192.0

98 52.3 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU036697.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 2.468 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.01 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

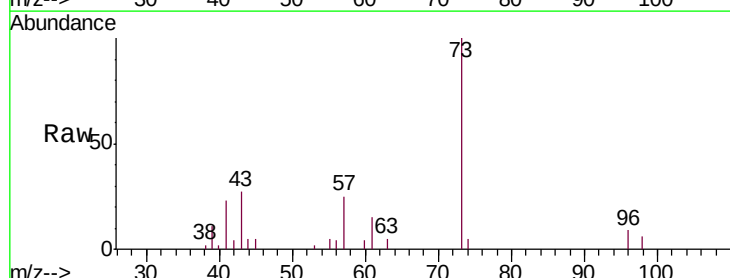
Tgt Ion: 73 Resp: 14423

Ion Ratio Lower Upper

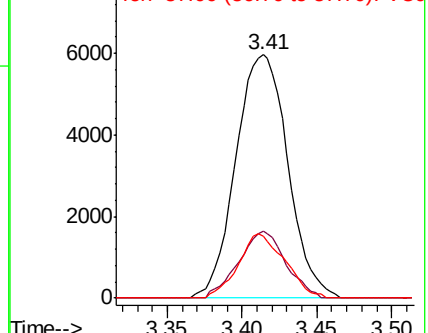
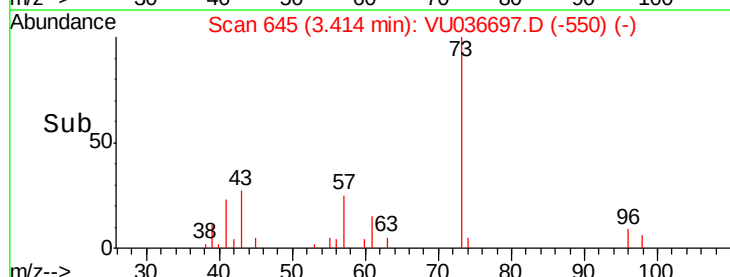
73 100

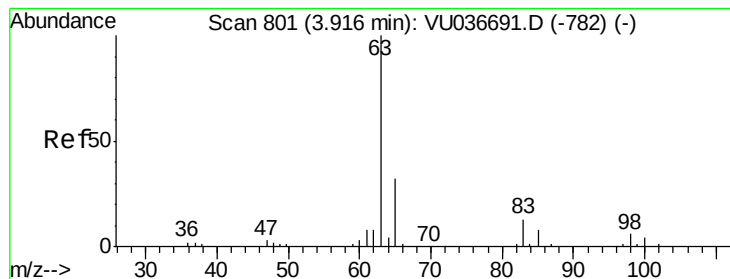
43 24.8 18.6 28.0

57 23.7 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU036697.D (-550) (-)





#19

1,1-Dichloroethane

Concen: 2.439 ug/L

RT: 3.92 min Scan# 801

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

MDL04

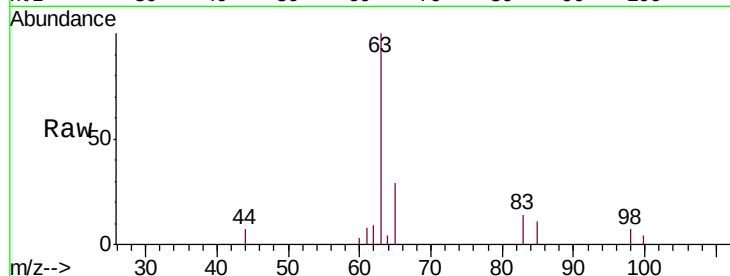
Tgt Ion: 63 Resp: 8185

Ion Ratio Lower Upper

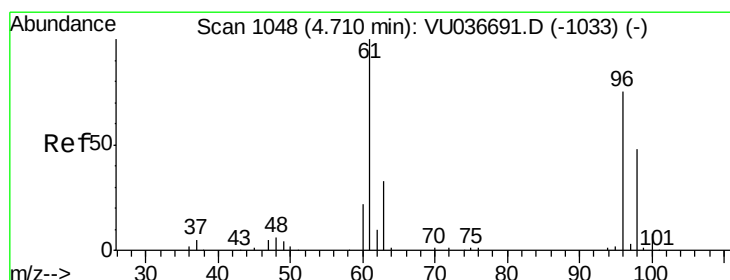
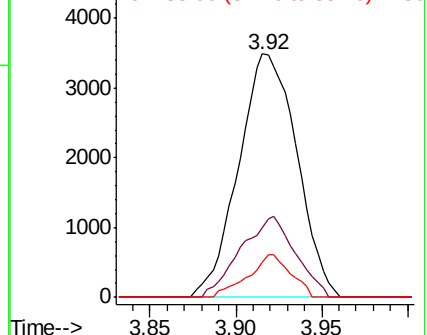
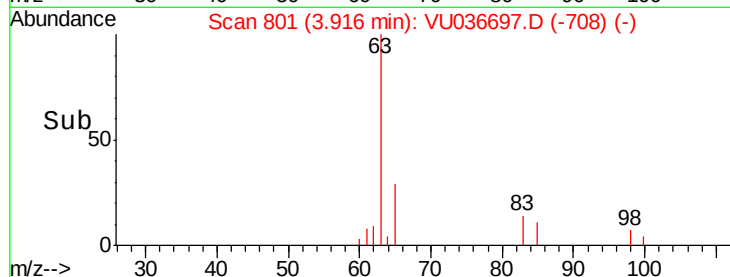
63 100

65 28.8 22.0 40.8

83 14.4 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU036697.D (-708) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.452 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

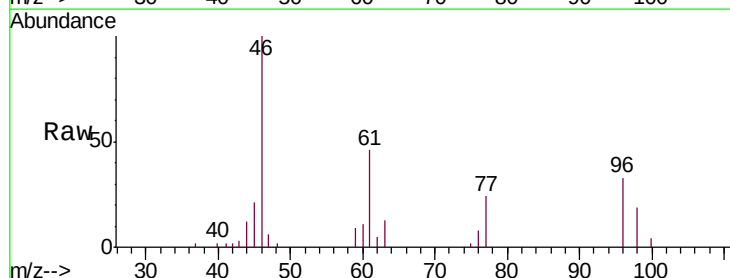
Tgt Ion: 96 Resp: 4705

Ion Ratio Lower Upper

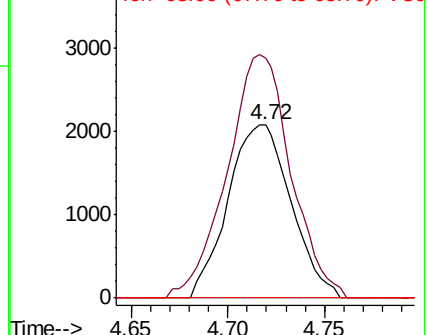
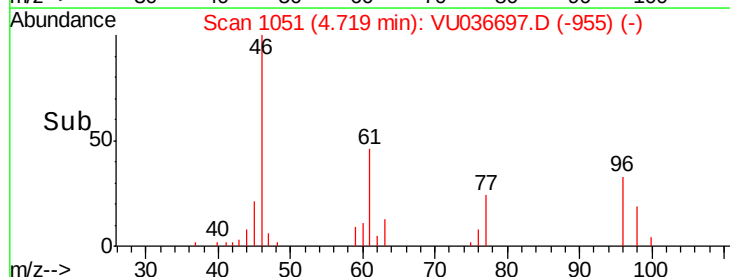
96 100

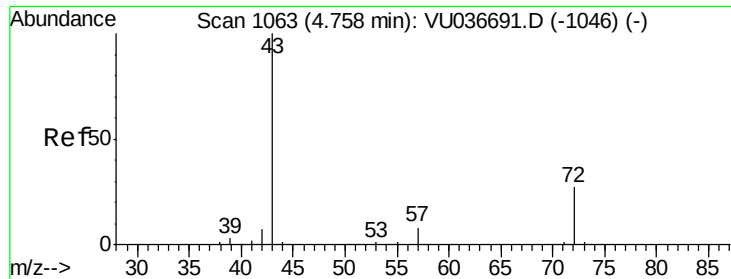
61 138.4 93.3 173.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036697.D (-955) (-)





#22

2-Butanone

Concen: 5.647 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

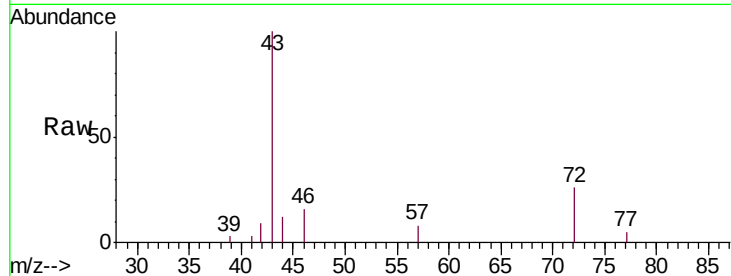
MDL04

Tgt Ion: 43 Resp: 10497

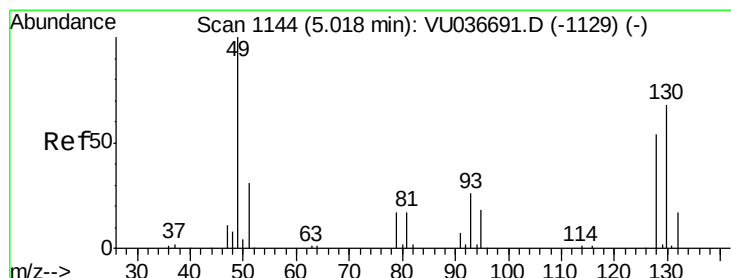
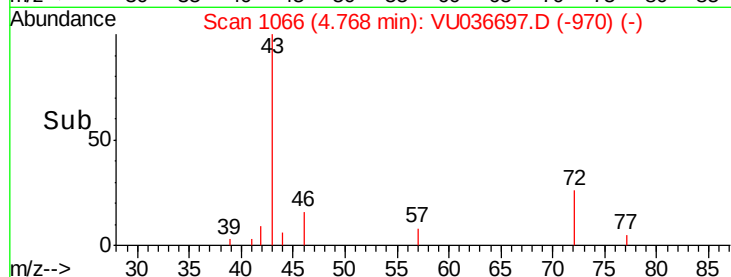
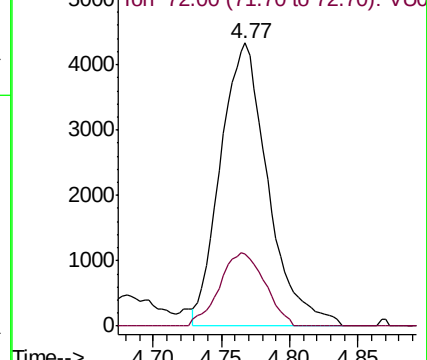
Ion Ratio Lower Upper

43 100

72 24.8 13.6 40.7



Abundance Ion 43.00 (42.70 to 43.70): VU036697.D (-1046) (-)



#23

Bromochloromethane

Concen: 2.282 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Tgt Ion: 128 Resp: 2052

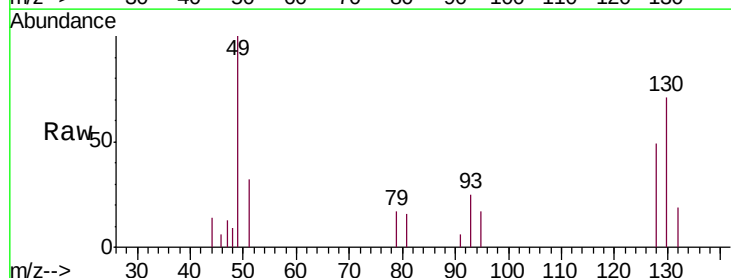
Ion Ratio Lower Upper

128 100

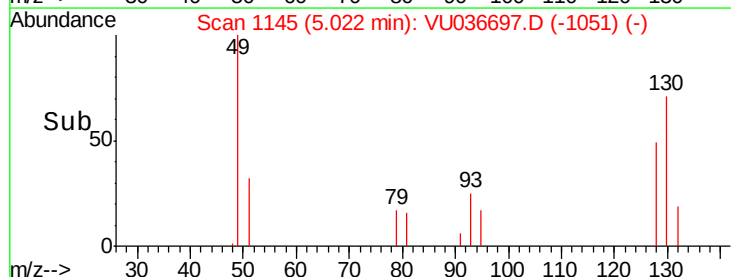
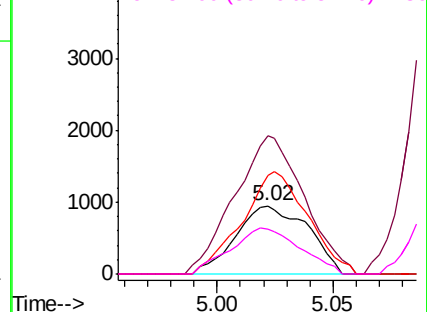
49 203.9 127.3 236.5

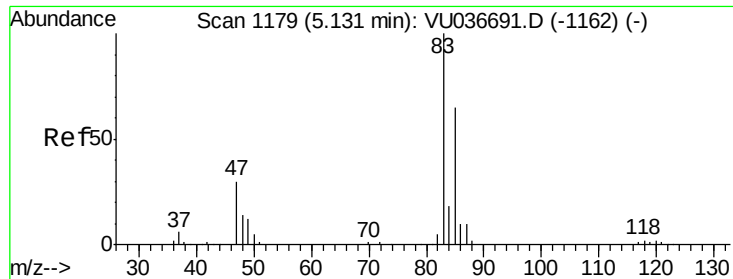
130 145.7 88.5 164.3

51 65.8 44.4 66.6



Abundance Ion 128.00 (127.70 to 128.70): VU036697.D (-1129) (-)





#25

Chloroform

Concen: 2.963 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampled :

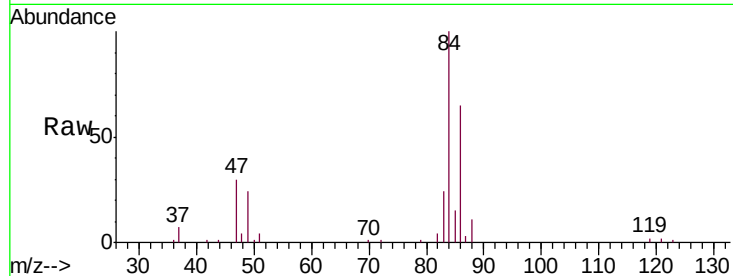
MDL04

Tgt Ion: 83 Resp: 9670

Ion Ratio Lower Upper

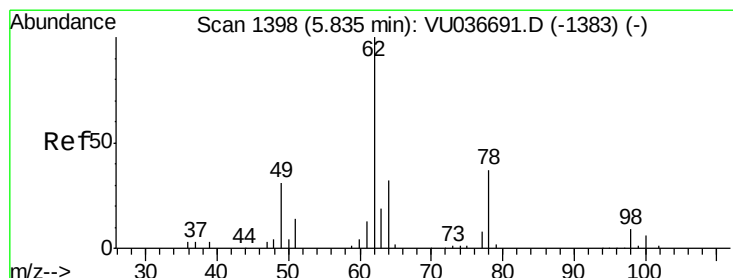
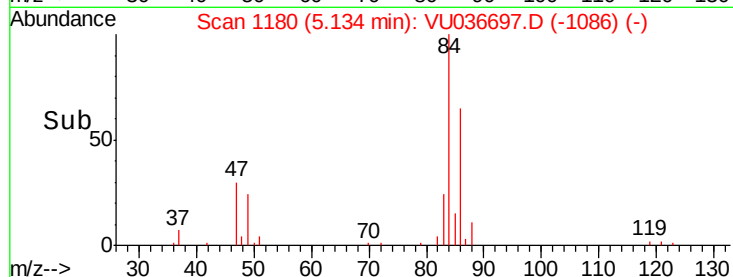
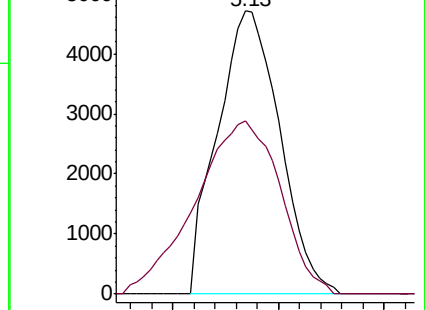
83 100

85 61.0 44.6 82.8



Abundance Ion 83.00 (82.70 to 83.70): VU036697.D (-1162) (-)

Ion 85.00 (84.70 to 85.70): VU036697.D (-1162) (-)



#27

1,2-Dichloroethane

Concen: 2.501 ug/L

RT: 5.84 min Scan# 1399

Delta R.T. 0.00 min

Lab File: VU036697.D

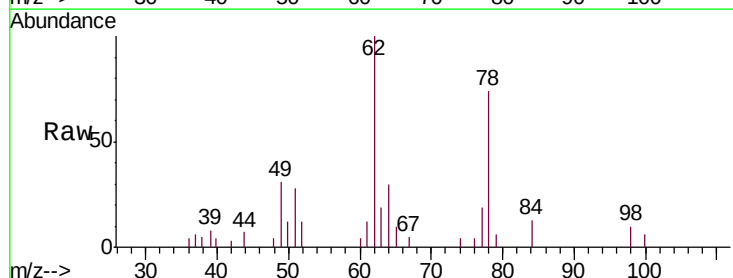
Acq: 07 Feb 2020 12:50

Tgt Ion: 62 Resp: 6863

Ion Ratio Lower Upper

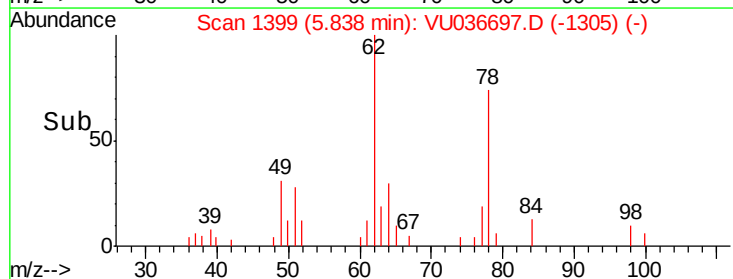
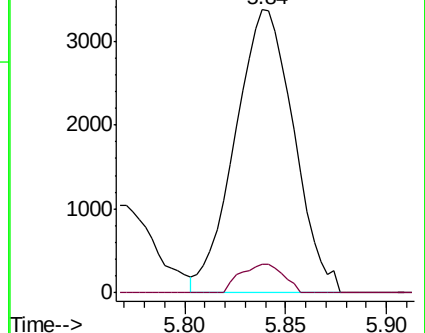
62 100

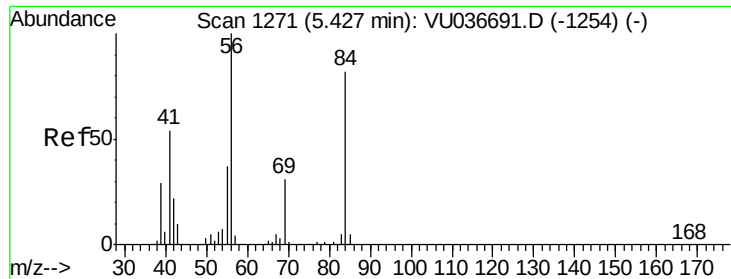
98 10.2 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU036697.D (-1383) (-)

Ion 98.00 (97.70 to 98.70): VU036697.D (-1383) (-)

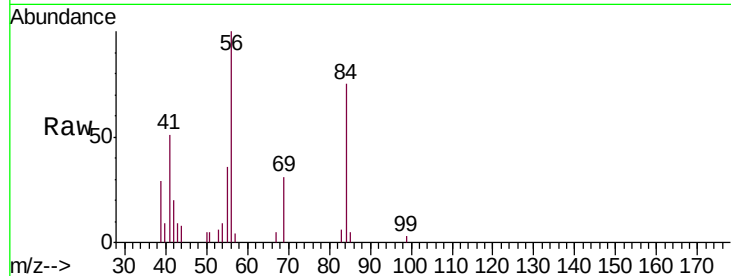




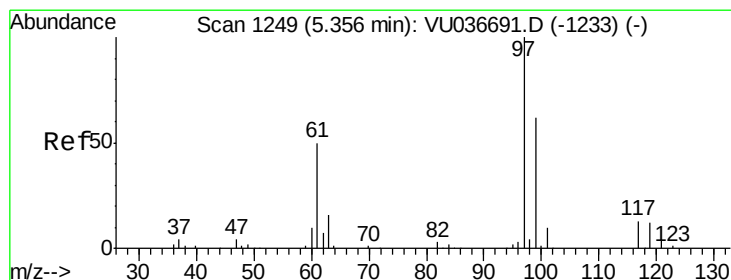
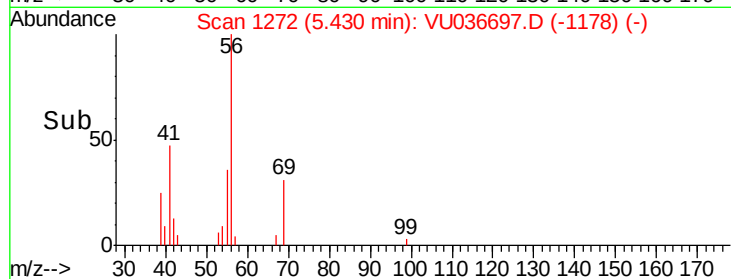
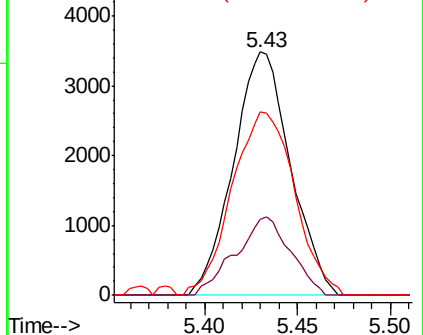
#29
Cyclohexane
Concen: 2.412 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.0	37.4
84	82.6	68.2	102.2

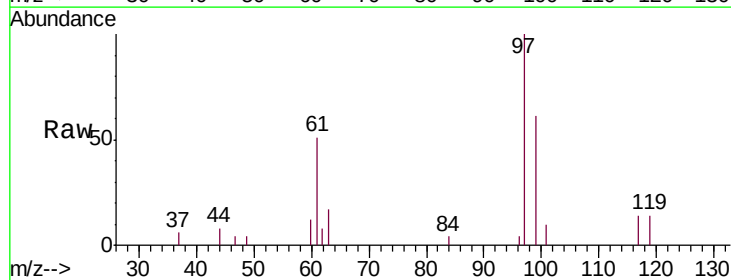


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

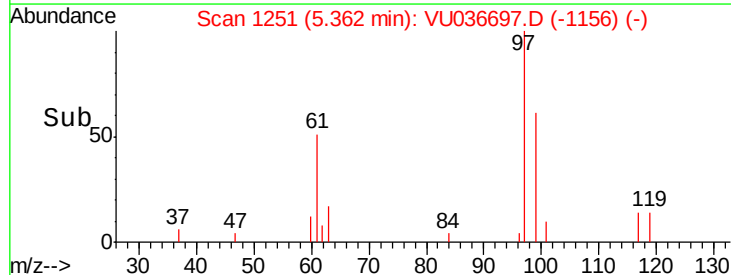
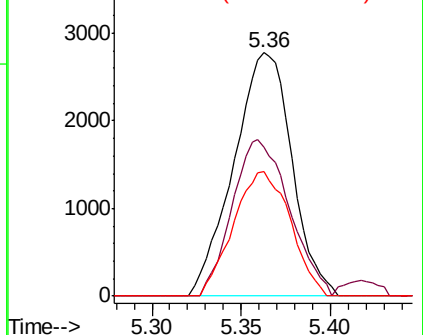


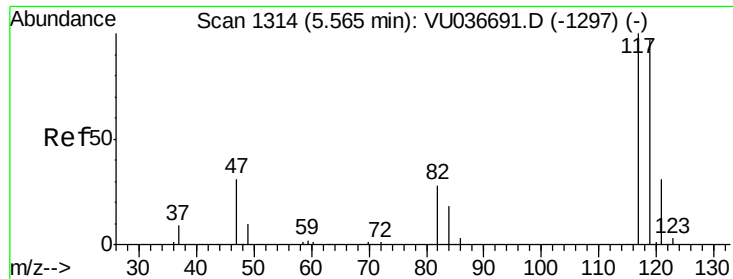
#30
1,1,1-Trichloroethane
Concen: 2.474 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.01 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.9	76.3
61	49.9	40.2	60.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

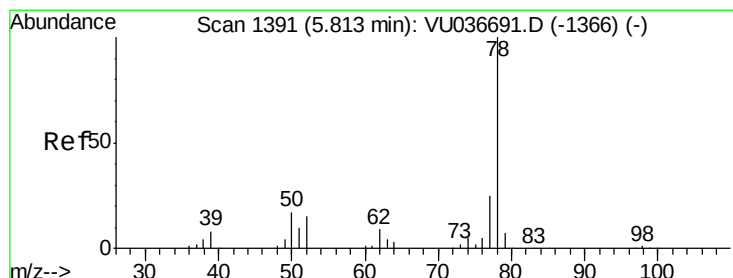
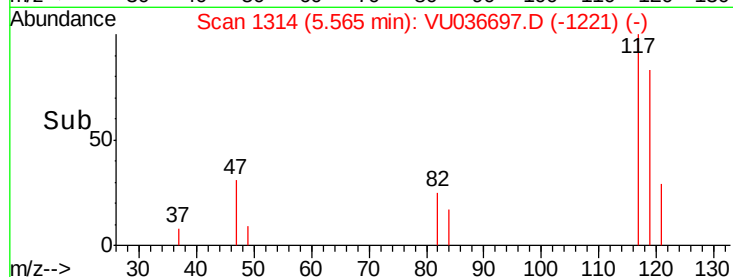
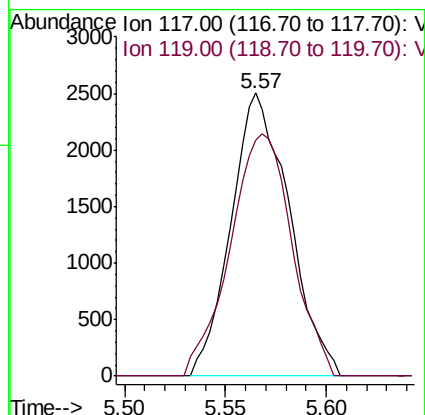
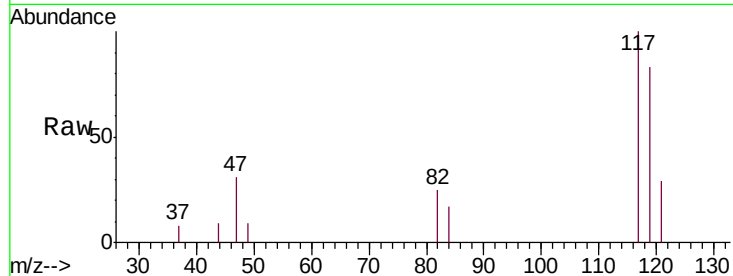




#31
Carbon tetrachloride
Concen: 2.431 ug/L
RT: 5.57 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

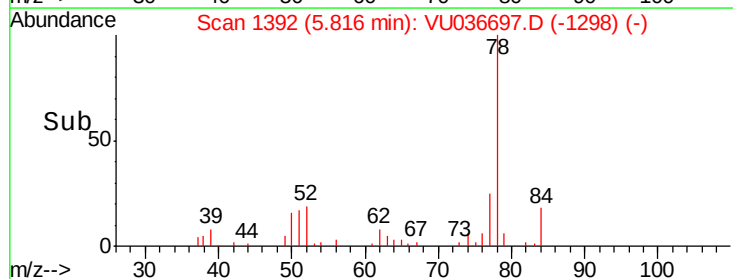
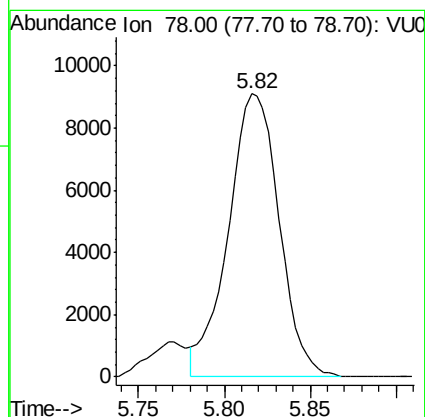
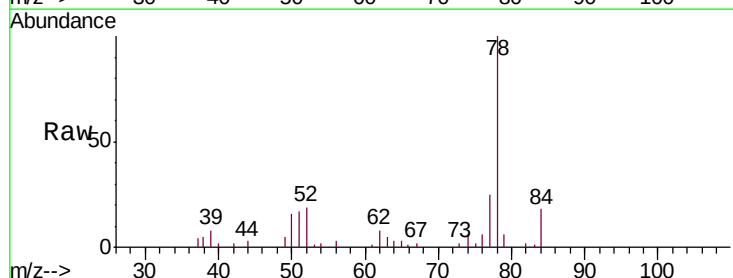
Instrument :
MSVOA_U
ClientSampleId :
MDL04

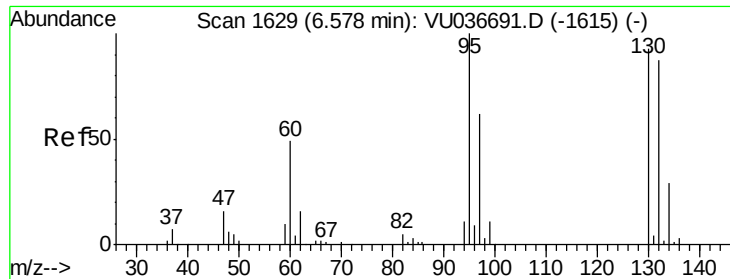
Tgt Ion: 117 Resp: 5038
Ion Ratio Lower Upper
117 100
119 90.9 76.2 114.4



#33
Benzene
Concen: 2.573 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion: 78 Resp: 18749

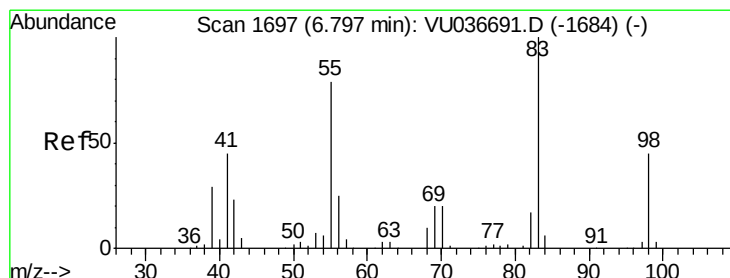
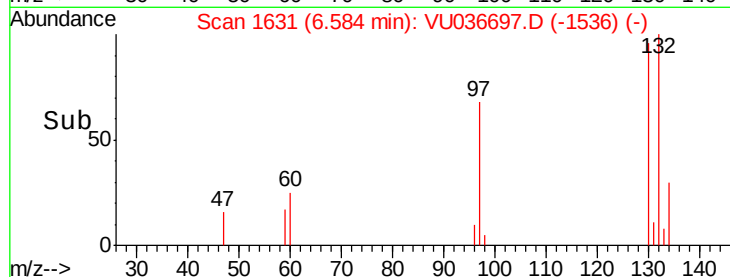
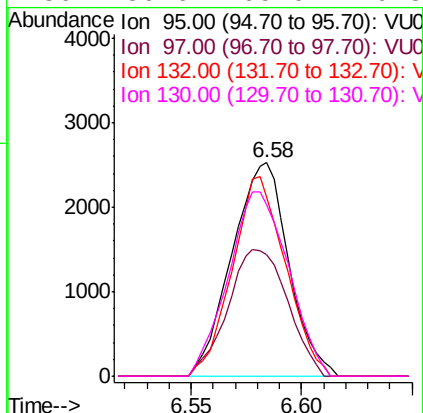
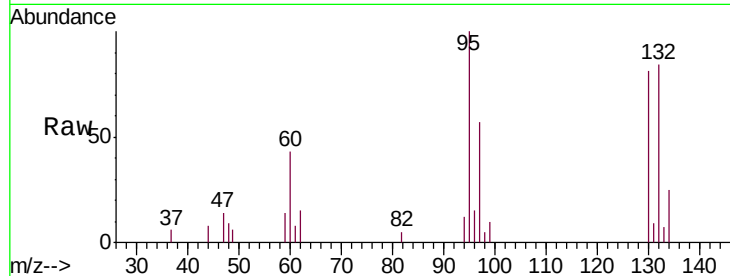




#34
 Trichloroethene
 Concen: 2.511 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. 0.01 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

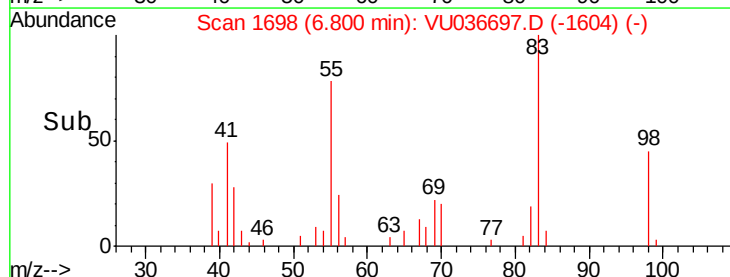
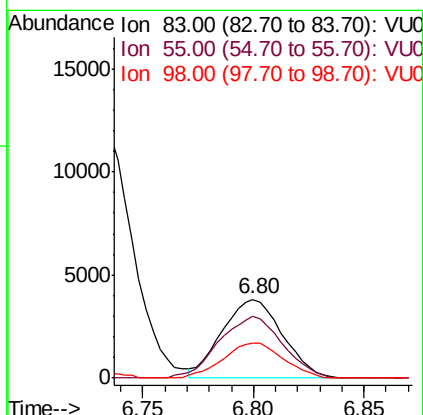
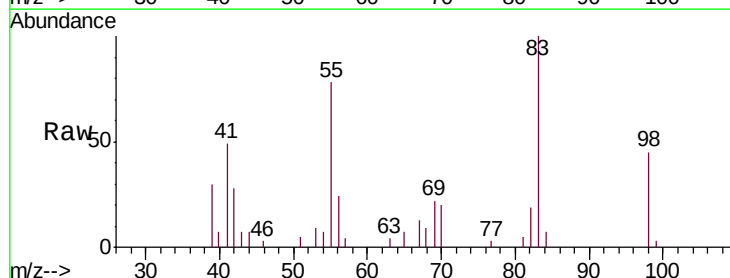
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

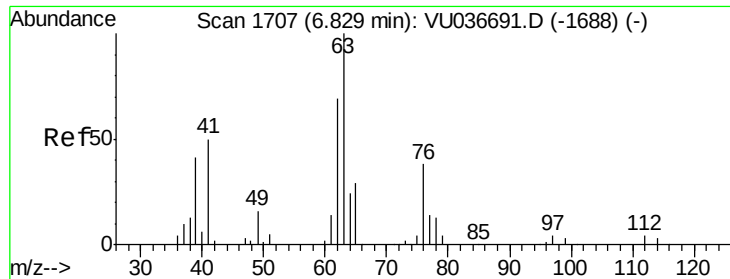
Tgt Ion:	95	Resp:	4525
Ion	Ratio	Lower	Upper
95	100		
97	56.9	44.5	82.7
132	84.1	59.6	110.8
130	80.6	65.0	120.8



#35
 Methylcyclohexane
 Concen: 2.284 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion:	83	Resp:	7250
Ion	Ratio	Lower	Upper
83	100		
55	81.7	61.2	91.8
98	44.5	35.4	53.0

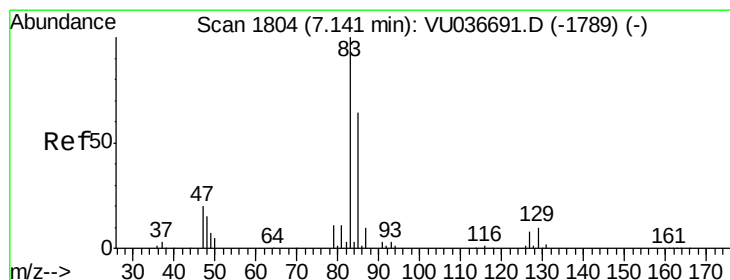
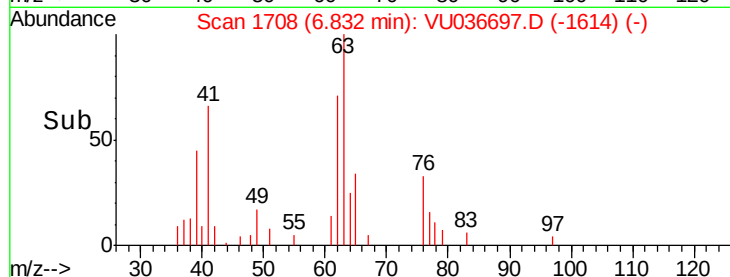
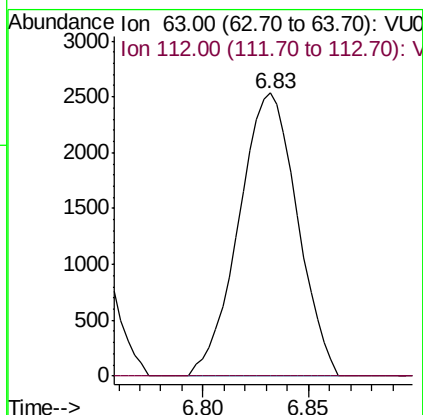
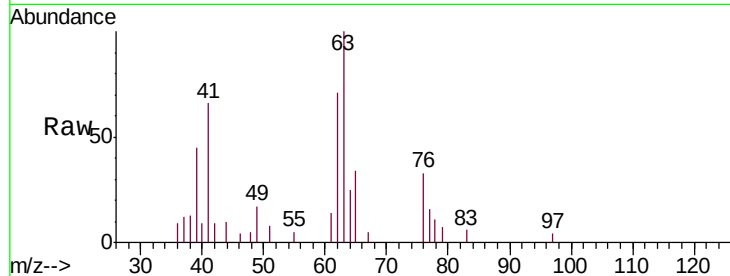




#37
 1,2-Dichloropropane
 Concen: 2.484 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

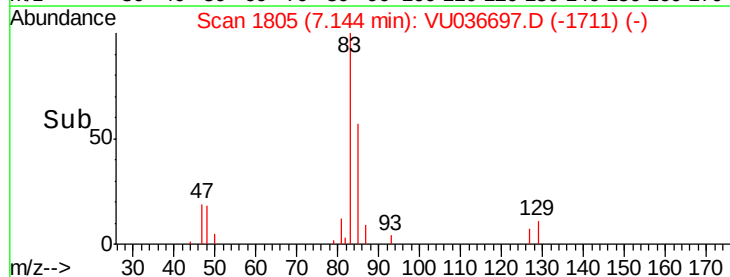
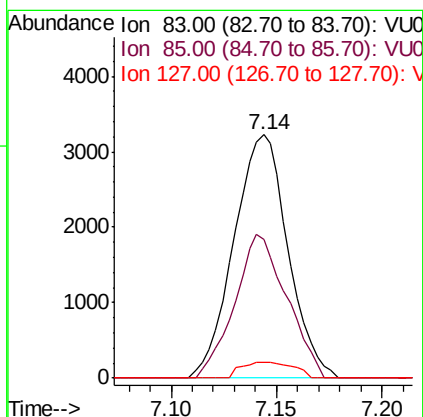
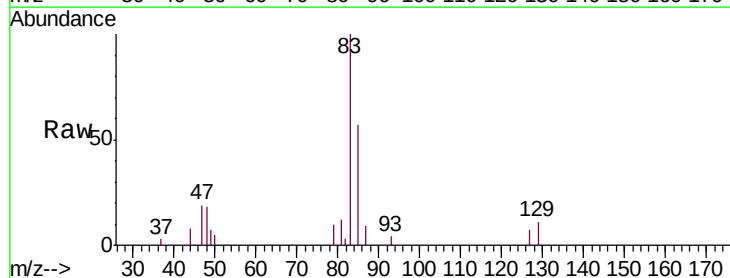
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

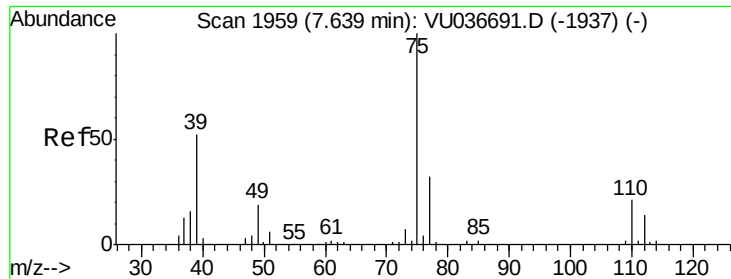
Tgt Ion: 63 Resp: 4881
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#38
 Bromodichloromethane
 Concen: 2.406 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion: 83 Resp: 5745
 Ion Ratio Lower Upper
 83 100
 85 56.9 43.9 81.5
 127 6.7 6.0 9.0

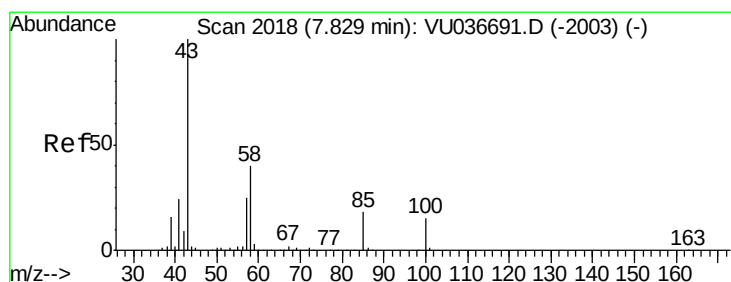
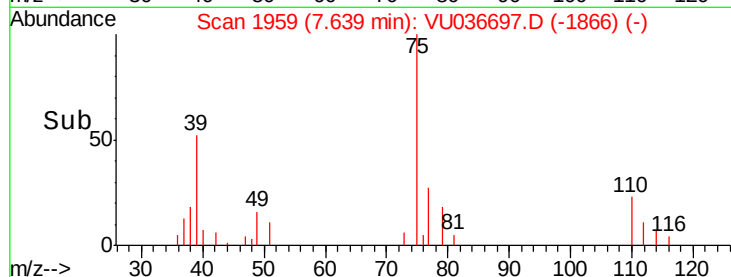
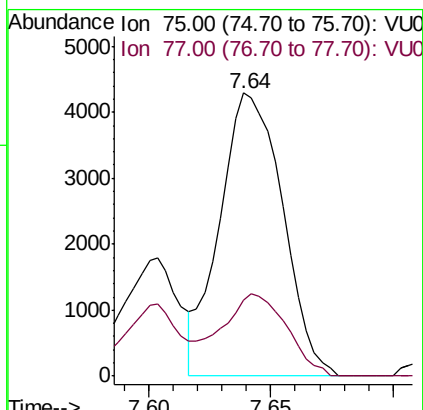
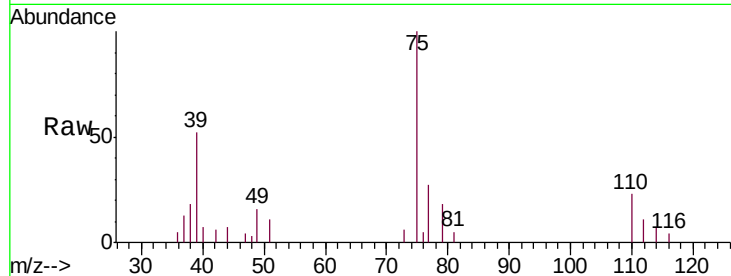




#39
 cis-1,3-Dichloropropene
 Concen: 2.450 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

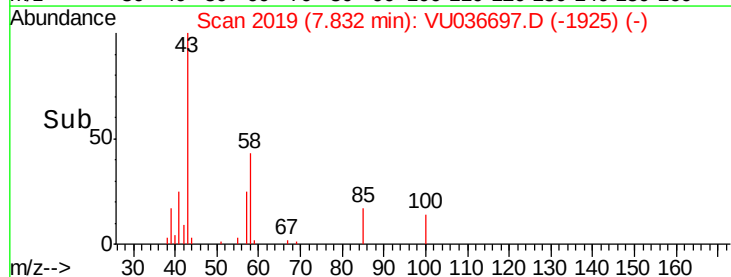
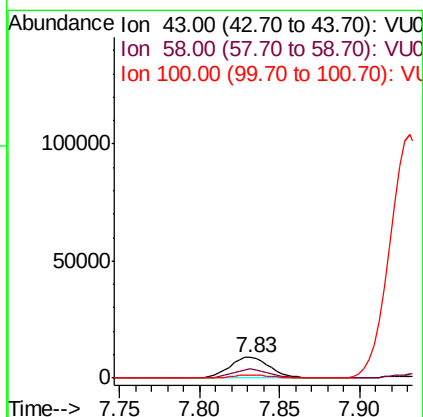
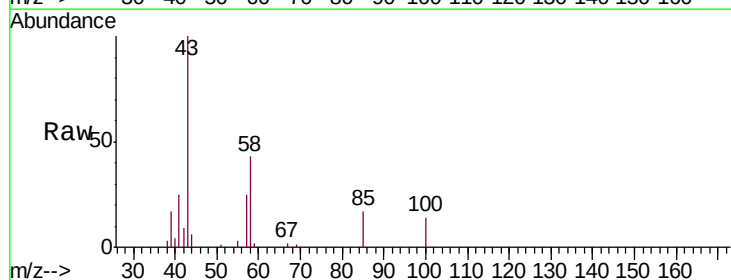
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

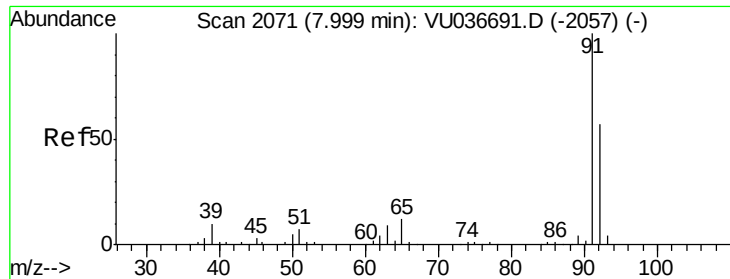
Tgt Ion: 75 Resp: 7694
 Ion Ratio Lower Upper
 75 100
 77 26.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 5.001 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion: 43 Resp: 15527
 Ion Ratio Lower Upper
 43 100
 58 39.3 31.0 46.6
 100 13.6 11.4 17.2





#42

Toluene

Concen: 2.461 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

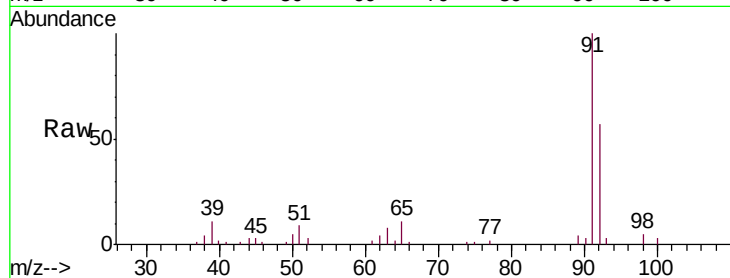
MDL04

Tgt Ion: 91 Resp: 19381

Ion Ratio Lower Upper

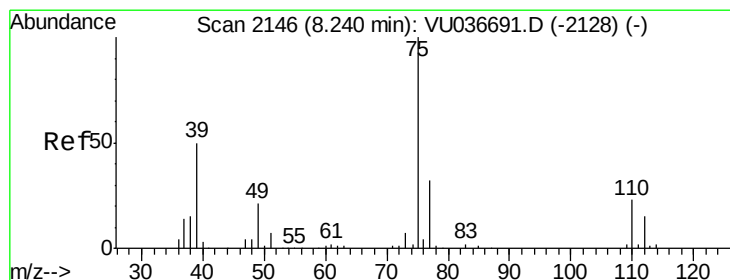
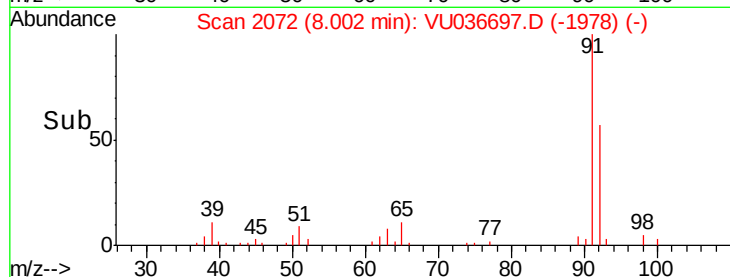
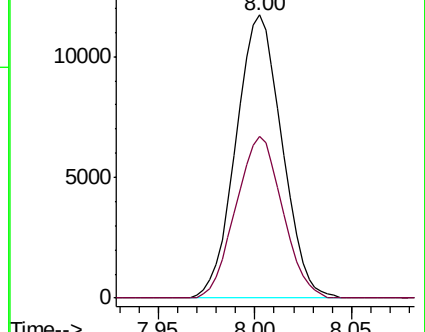
91 100

92 57.0 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU036697.D (-2057) (-)

Ion 92.00 (91.70 to 92.70): VU036697.D (-2057) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.474 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036697.D

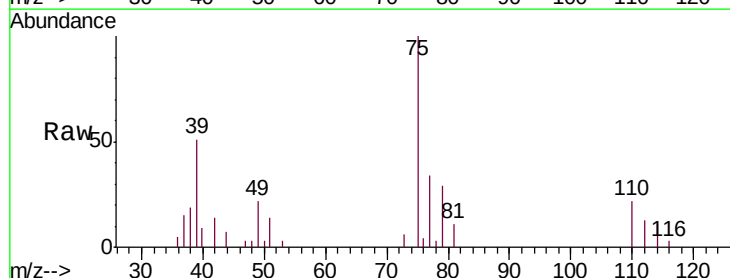
Acq: 07 Feb 2020 12:50

Tgt Ion: 75 Resp: 6785

Ion Ratio Lower Upper

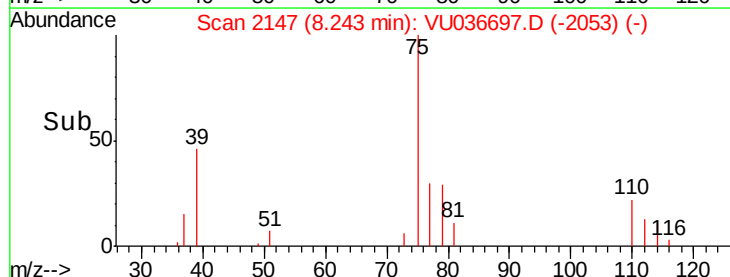
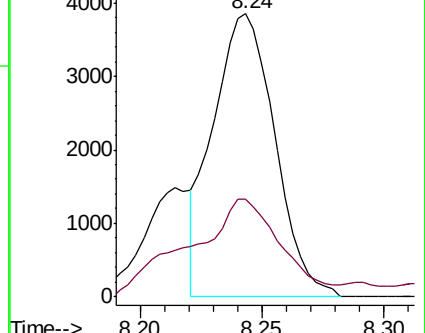
75 100

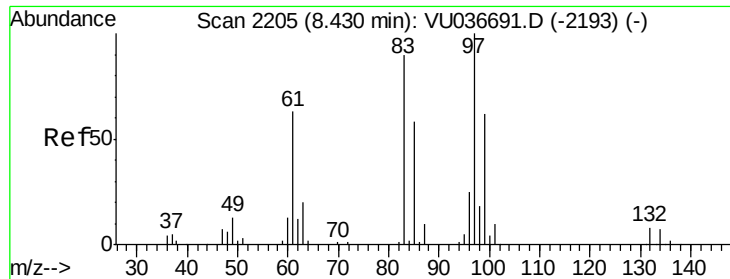
77 34.4 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036697.D (-2053) (-)

Ion 77.00 (76.70 to 77.70): VU036697.D (-2053) (-)





#45

1,1,2-Trichloroethane

Concen: 2.364 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 97 Resp: 4238

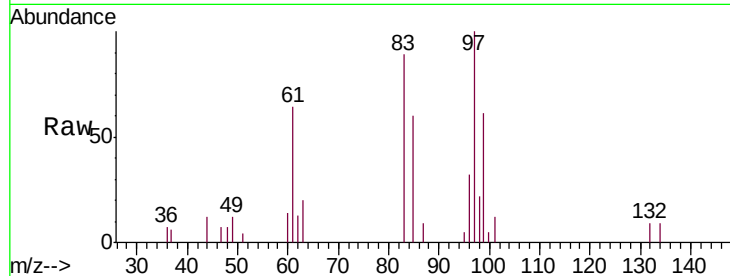
Ion Ratio Lower Upper

97 100

99 60.6 42.6 79.0

83 88.8 61.1 113.5

85 60.4 40.4 75.0

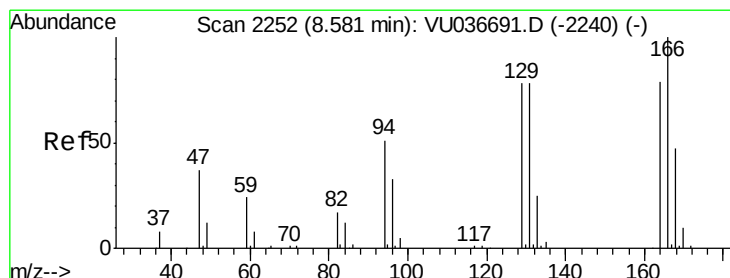
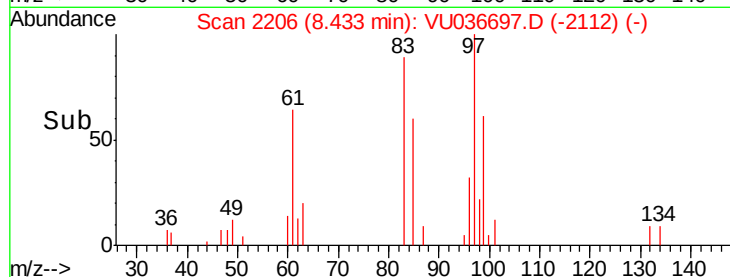
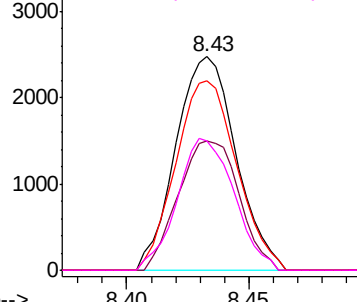


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 2.787 ug/L

RT: 8.59 min Scan# 2254

Delta R.T. 0.01 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Tgt Ion: 164 Resp: 3524

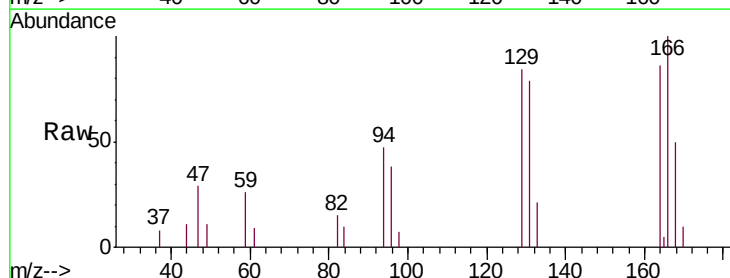
Ion Ratio Lower Upper

164 100

129 97.5 71.0 131.9

131 92.0 66.6 123.6

166 116.0 86.4 160.4

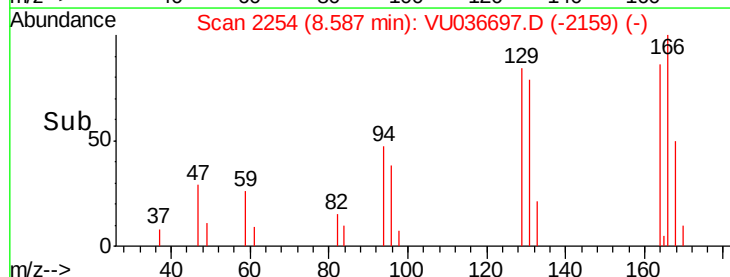
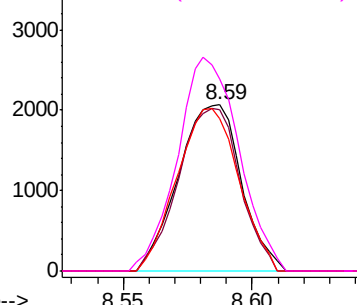


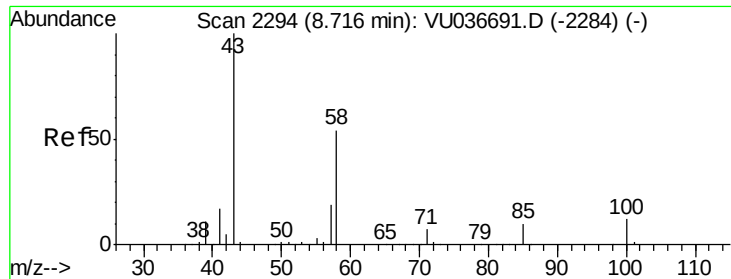
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

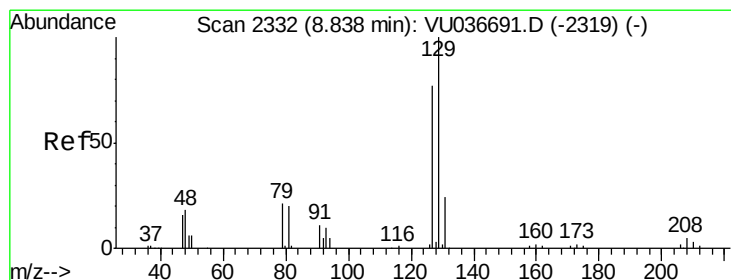
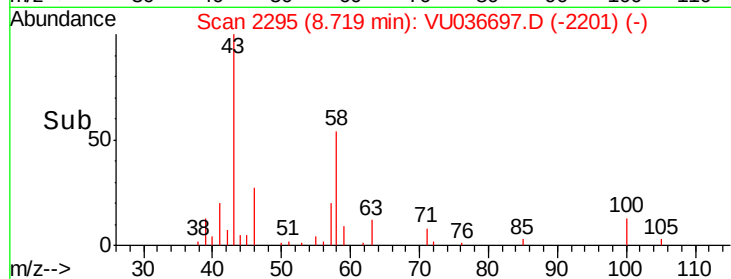
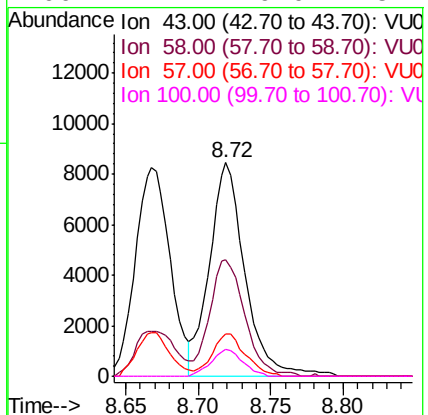
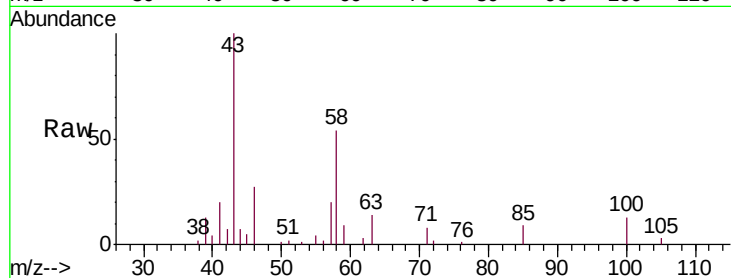




#48
2-Hexanone
Concen: 5.688 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

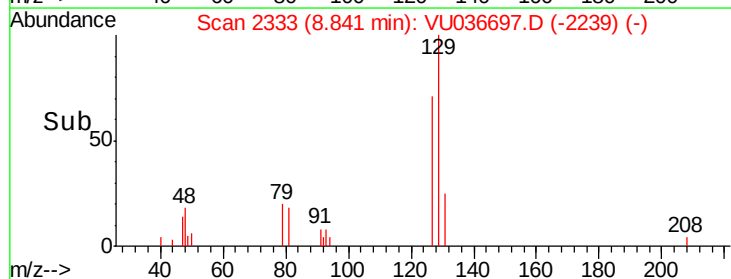
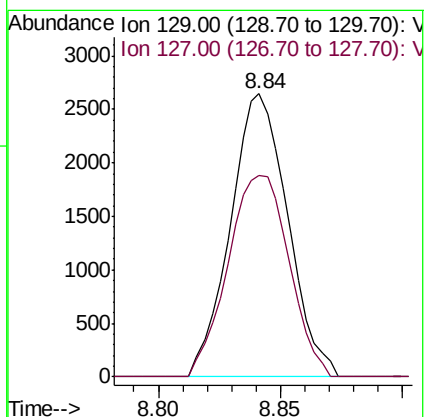
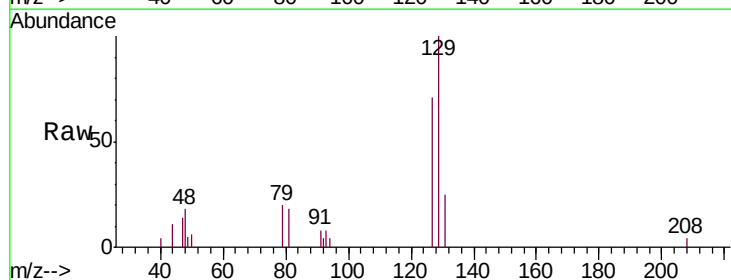
Instrument :
MSVOA_U
ClientSampleId :
MDL04

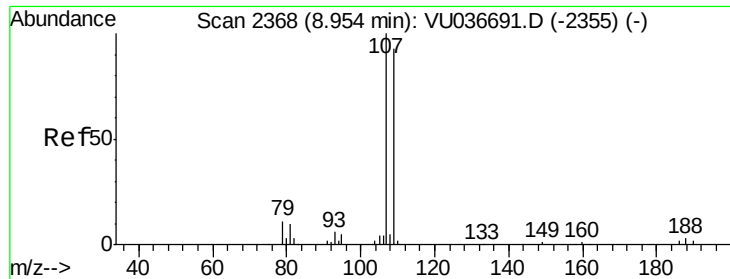
Tgt Ion: 43 Resp: 14407
Ion Ratio Lower Upper
43 100
58 53.9 43.6 65.4
57 18.6 15.5 23.3
100 11.2 9.0 13.4



#49
Dibromochloromethane
Concen: 2.454 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion: 129 Resp: 4303
Ion Ratio Lower Upper
129 100
127 71.4 53.6 99.6

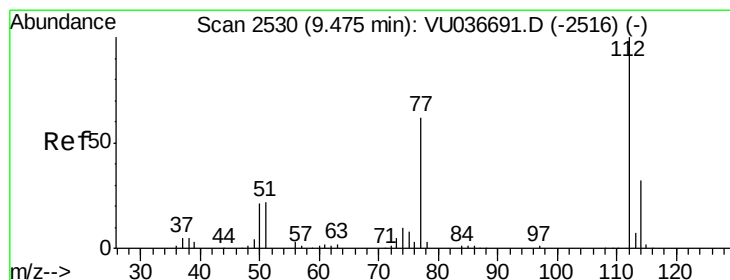
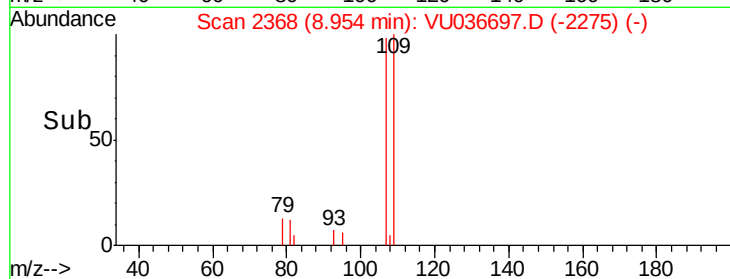
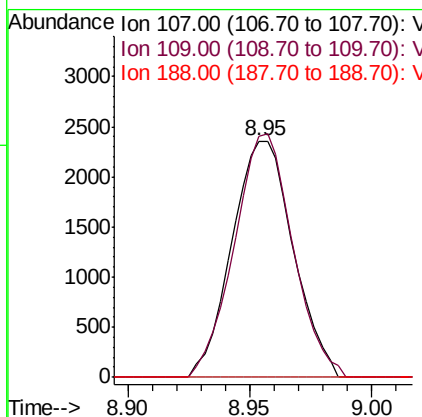
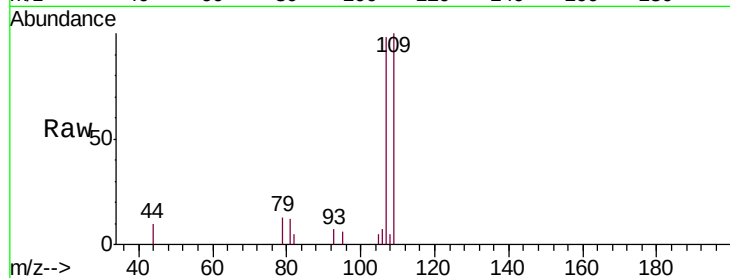




#50
 1,2-Dibromoethane
 Concen: 2.180 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

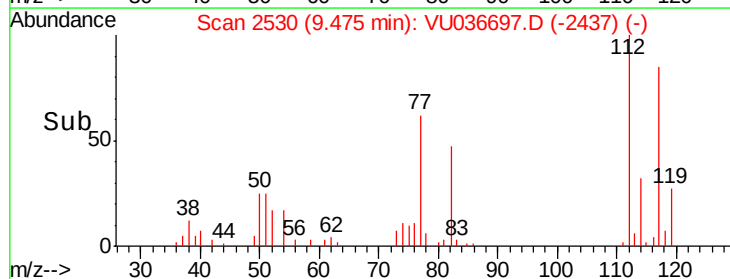
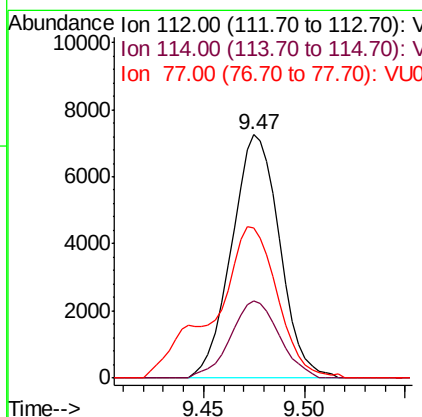
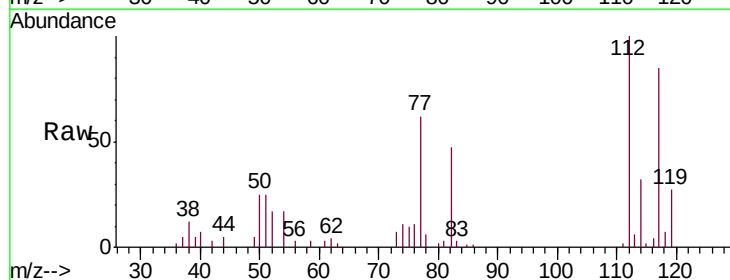
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

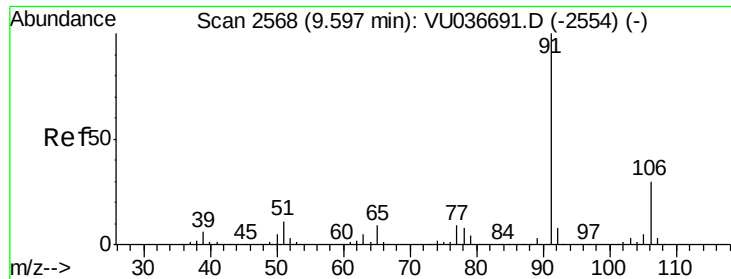
Tgt Ion:107 Resp: 4106
 Ion Ratio Lower Upper
 107 100
 109 101.9 65.8 122.2
 188 0.0 2.5 3.7#



#51
 Chlorobenzene
 Concen: 2.543 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion:112 Resp: 12059
 Ion Ratio Lower Upper
 112 100
 114 31.8 22.7 42.1
 77 61.6 50.6 75.8





#52

Ethylbenzene

Concen: 2.363 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

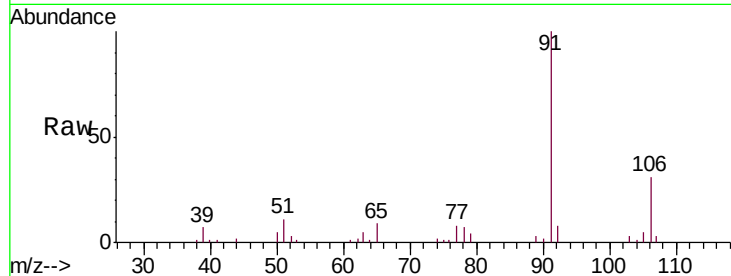
MDL04

Tgt Ion: 91 Resp: 20446

Ion Ratio Lower Upper

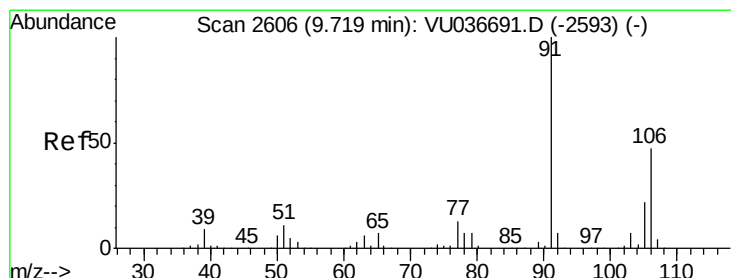
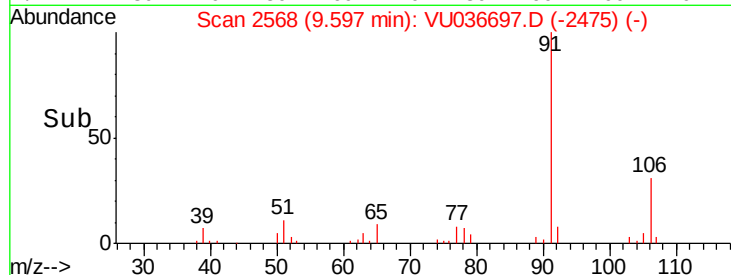
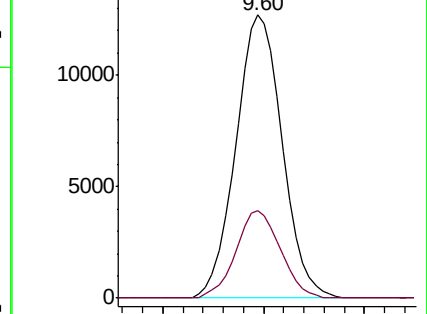
91 100

106 31.1 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036697.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU036697.D (-2554) (-)



#53

m,p-Xylene

Concen: 2.344 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036697.D

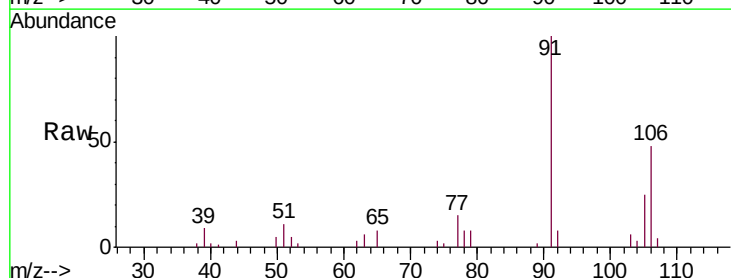
Acq: 07 Feb 2020 12:50

Tgt Ion: 106 Resp: 7483

Ion Ratio Lower Upper

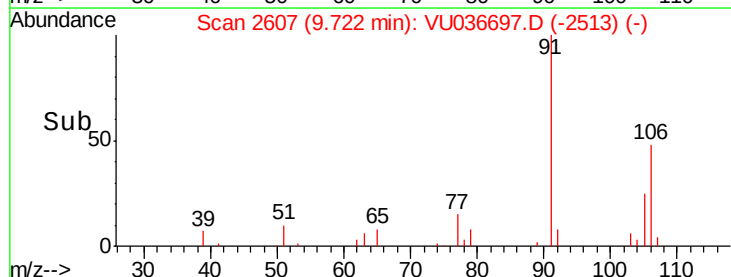
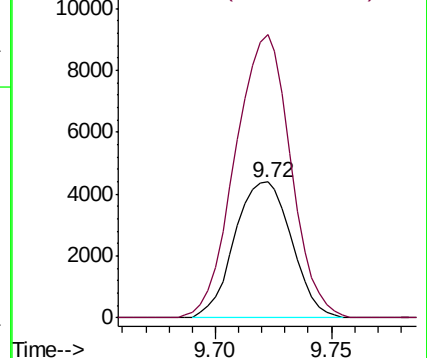
106 100

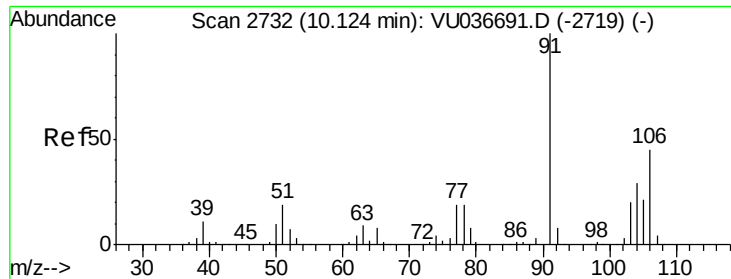
91 208.8 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036697.D (-2593) (-)

Ion 91.00 (90.70 to 91.70): VU036697.D (-2593) (-)





#54

o-xylene

Concen: 2.236 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

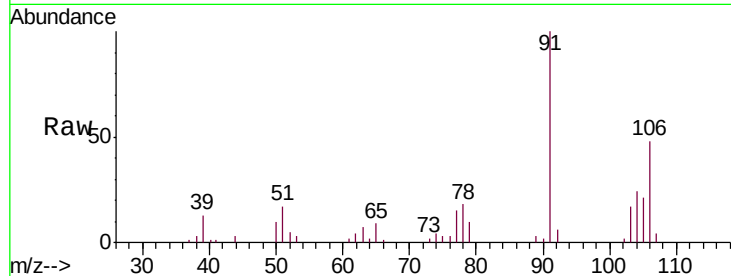
MDL04

Tgt Ion:106 Resp: 7072

Ion Ratio Lower Upper

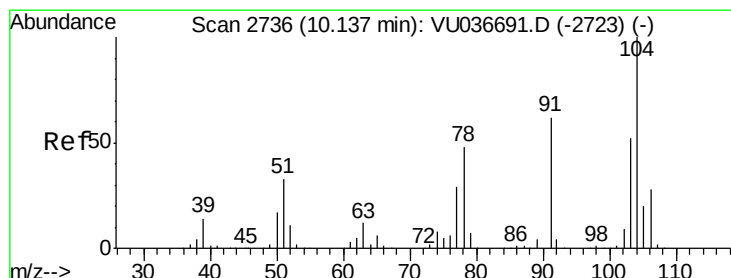
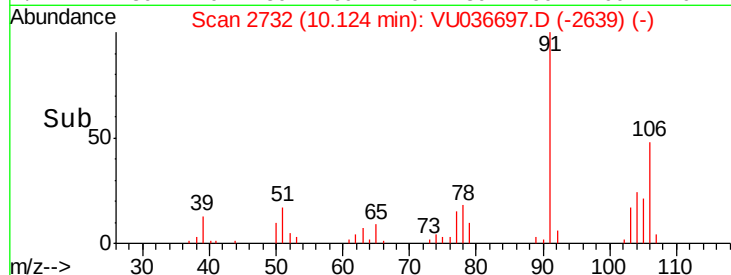
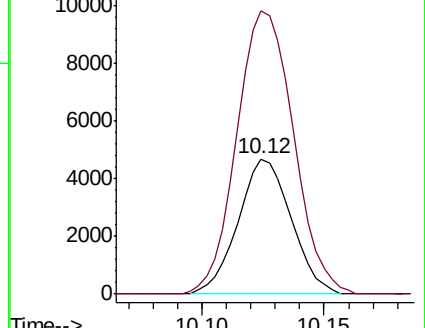
106 100

91 209.7 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.154 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036697.D

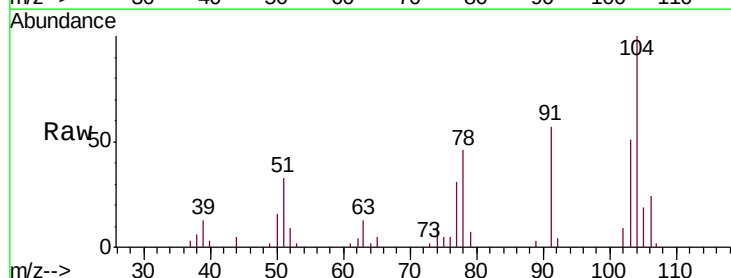
Acq: 07 Feb 2020 12:50

Tgt Ion:104 Resp: 11349

Ion Ratio Lower Upper

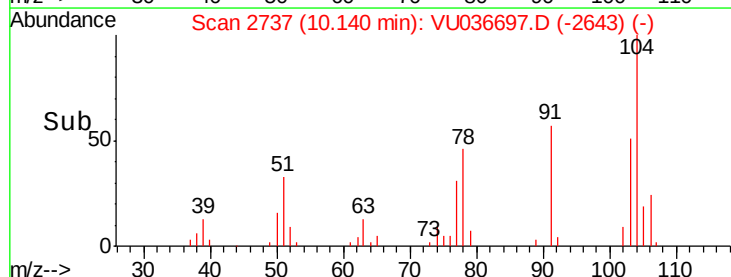
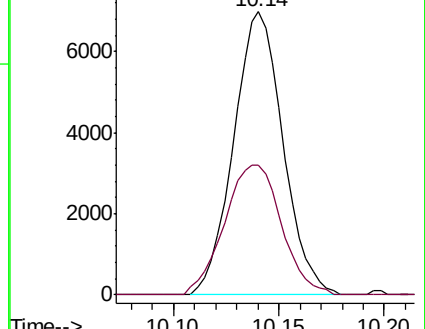
104 100

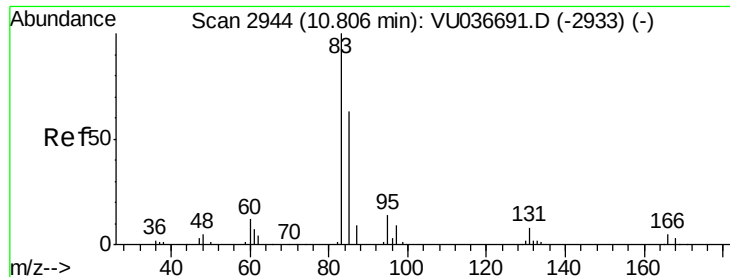
78 45.7 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

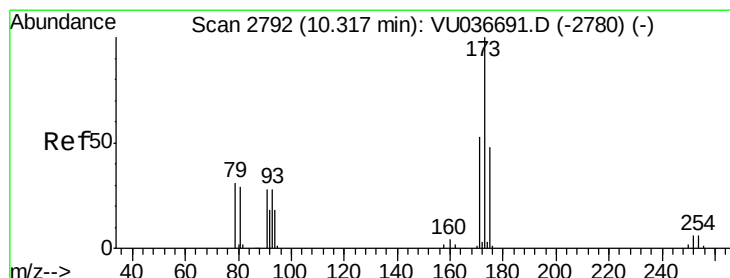
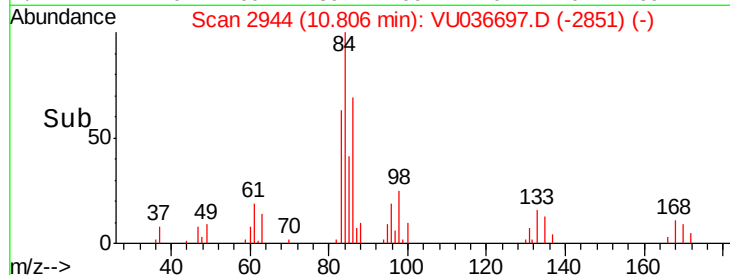
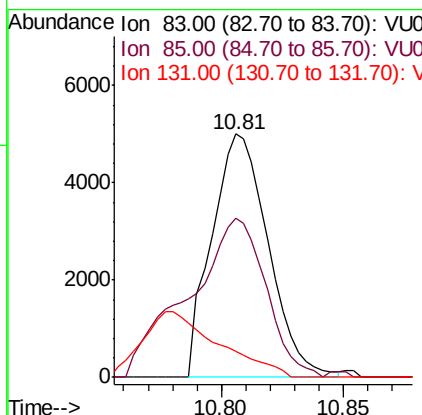
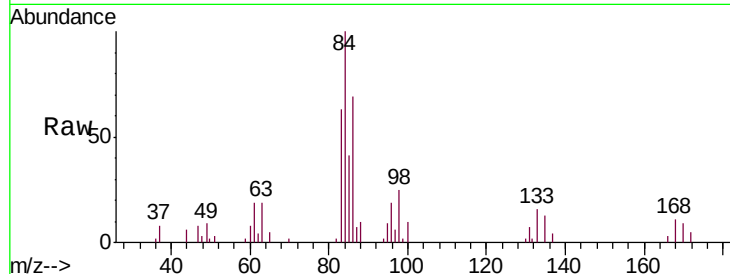




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.492 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

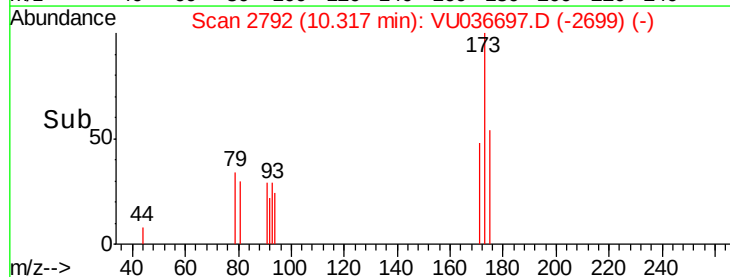
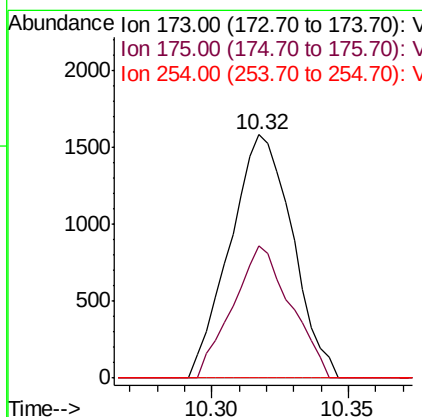
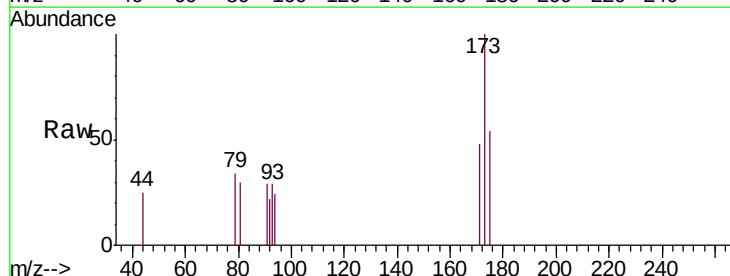
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

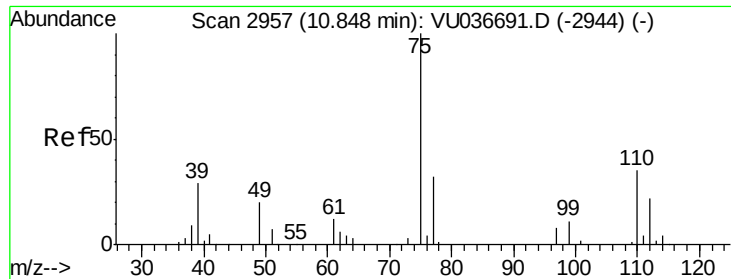
Tgt Ion: 83 Resp: 8051
 Ion Ratio Lower Upper
 83 100
 85 65.4 44.7 82.9
 131 14.4 6.8 10.2#



#59
 Bromoform
 Concen: 2.178 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion: 173 Resp: 2509
 Ion Ratio Lower Upper
 173 100
 175 50.6 38.2 57.4
 254 0.0 4.8 7.2#

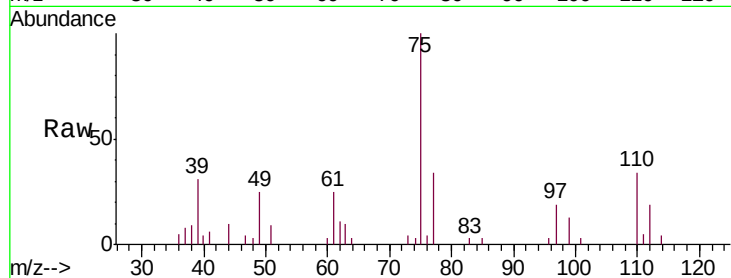




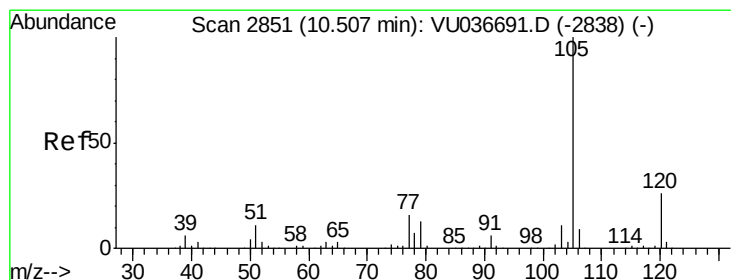
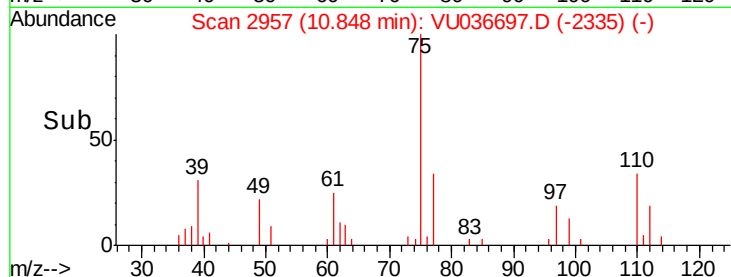
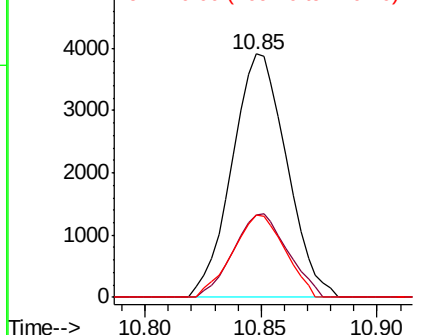
#60
1,2,3-Trichloropropane
Concen: 2.604 ug/L
RT: 10.85 min Scan# 2957
Delta R.T. -0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 75 Resp: 6387
Ion Ratio Lower Upper
75 100
77 34.0 26.1 39.1
110 32.3 26.9 40.3

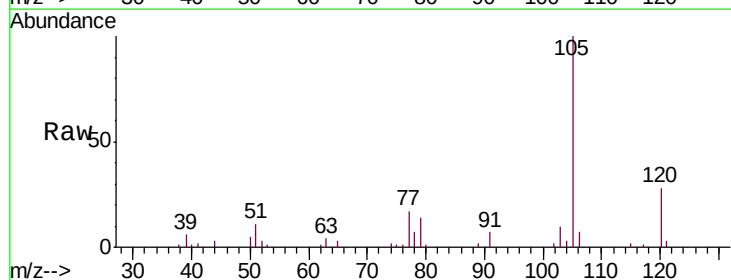


Abundance Ion 75.00 (74.70 to 75.70): VU036697.D (-2944) (-)
Ion 77.00 (76.70 to 77.70): VU036697.D (-2944) (-)
Ion 110.00 (109.70 to 110.70): VU036697.D (-2944) (-)

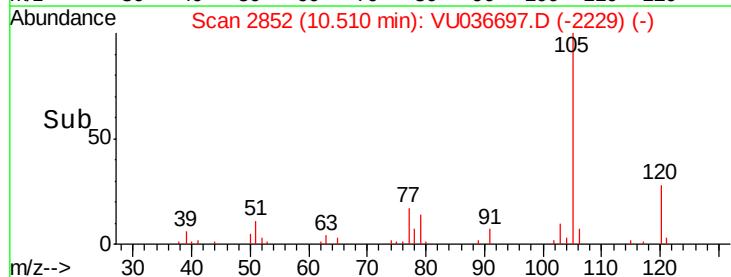
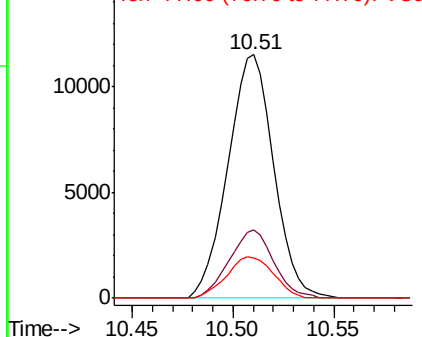


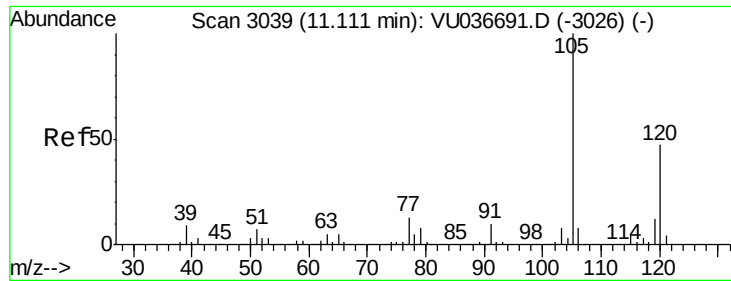
#61
Isopropylbenzene
Concen: 2.357 ug/L
RT: 10.51 min Scan# 2852
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion: 105 Resp: 18300
Ion Ratio Lower Upper
105 100
120 27.0 20.2 30.4
77 17.3 13.0 19.6



Abundance Ion 105.00 (104.70 to 105.70): VU036697.D (-2838) (-)
Ion 120.00 (119.70 to 120.70): VU036697.D (-2838) (-)
Ion 77.00 (76.70 to 77.70): VU036697.D (-2838) (-)

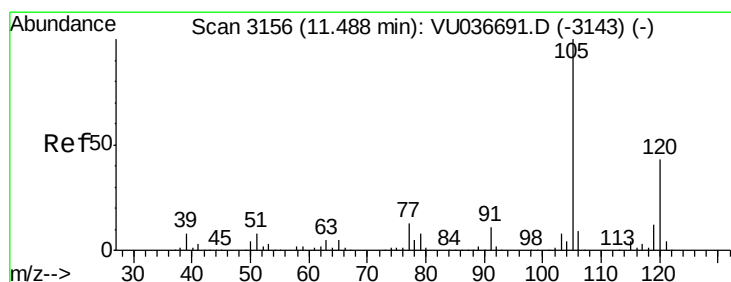
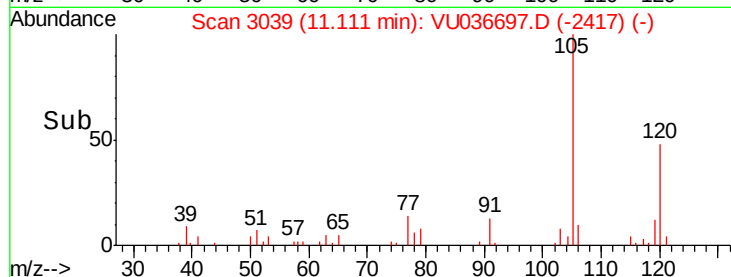
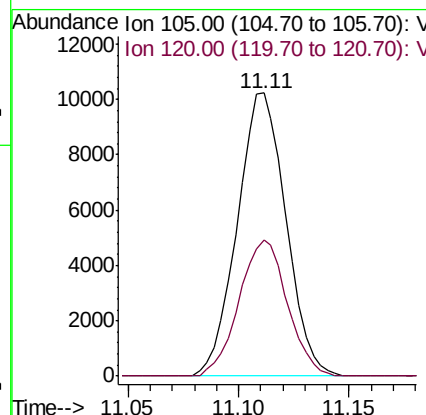
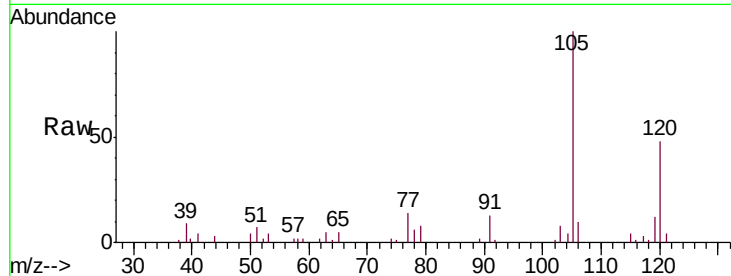




#62
 1,3,5-Trimethylbenzene
 Concen: 2.359 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

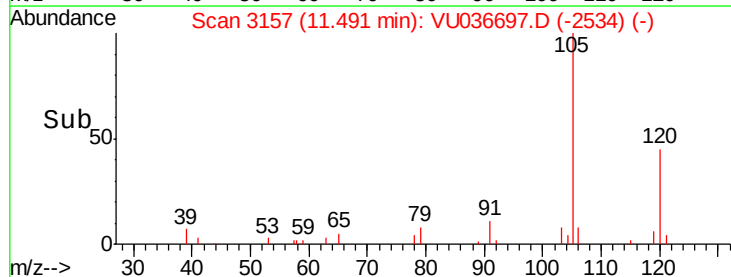
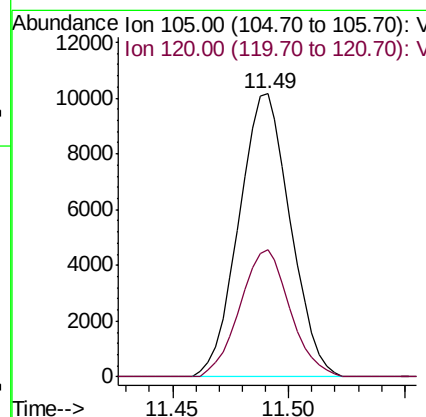
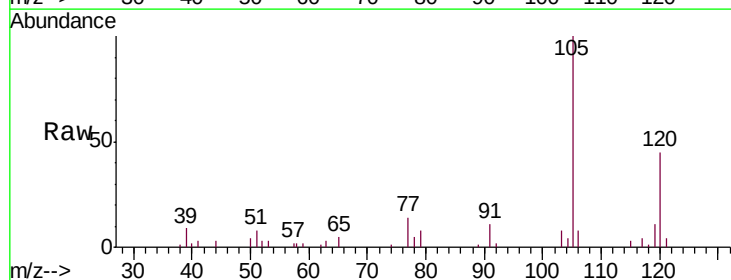
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

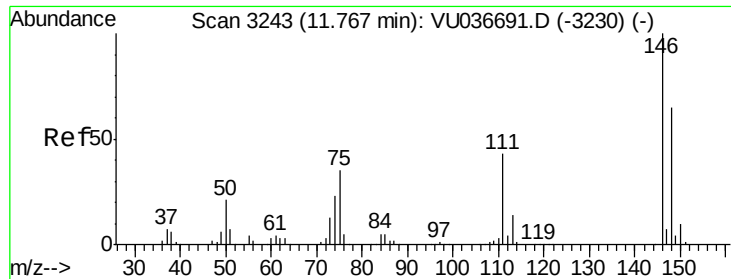
Tgt Ion:105 Resp: 15701
 Ion Ratio Lower Upper
 105 100
 120 47.7 37.1 55.7



#63
 1,2,4-Trimethylbenzene
 Concen: 2.351 ug/L
 RT: 11.49 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion:105 Resp: 15627
 Ion Ratio Lower Upper
 105 100
 120 43.9 34.7 52.1





#64

1,3-Dichlorobenzene

Concen: 2.393 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

Instrument :

MSVOA_U

ClientSampleId :

MDL04

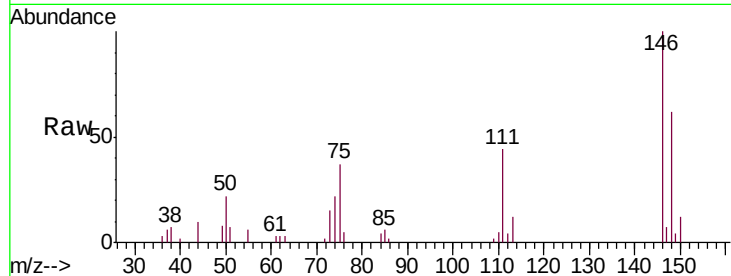
Tgt Ion:146 Resp: 7811

Ion Ratio Lower Upper

146 100

111 44.2 30.4 56.4

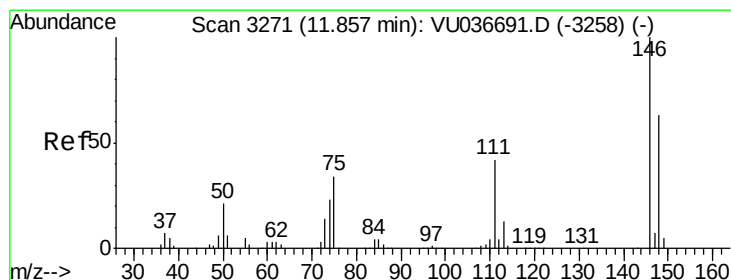
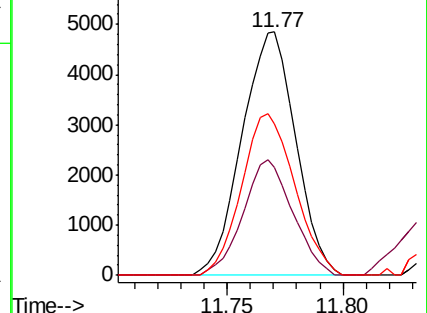
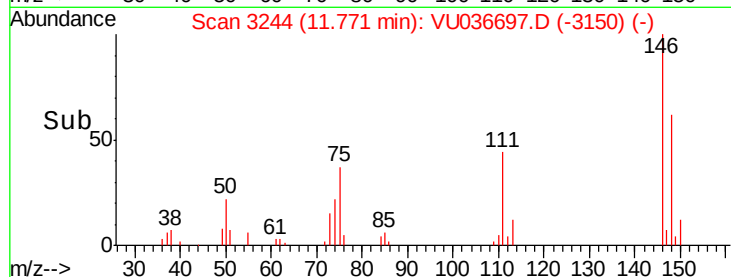
148 62.2 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.648 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036697.D

Acq: 07 Feb 2020 12:50

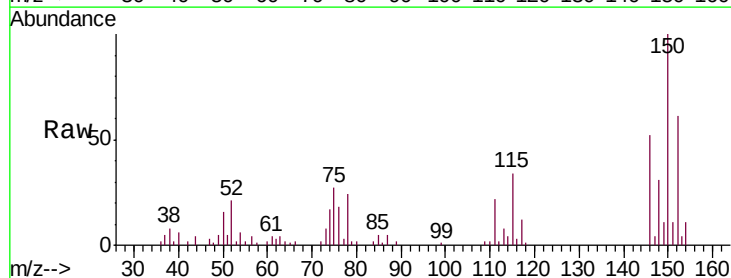
Tgt Ion:146 Resp: 8704

Ion Ratio Lower Upper

146 100

111 42.5 29.3 54.3

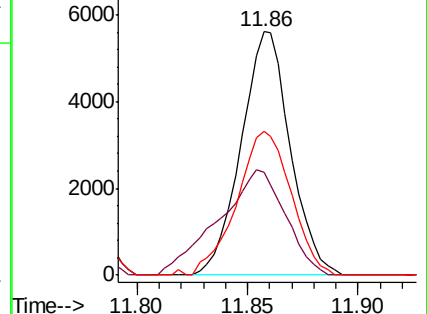
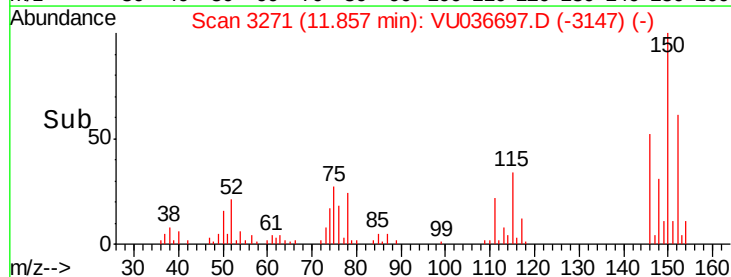
148 59.1 44.8 83.2

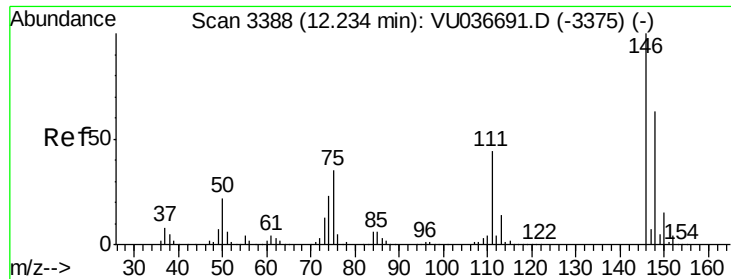


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

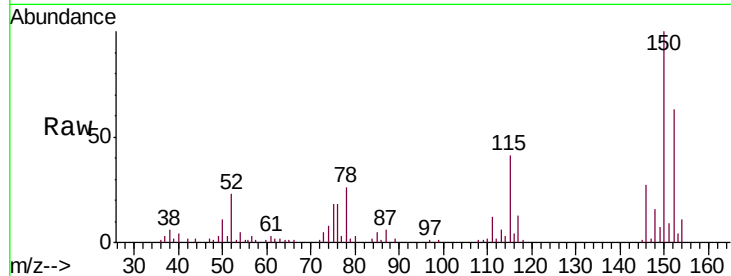




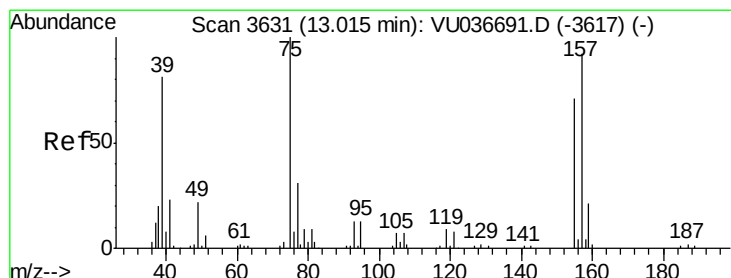
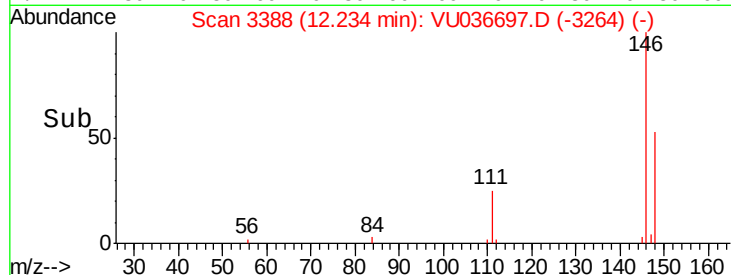
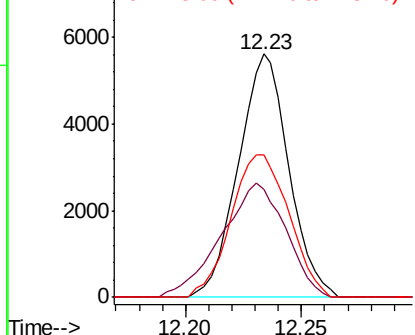
#67
 1,2-Dichlorobenzene
 Concen: 2.567 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion: 146 Resp: 8485
 Ion Ratio Lower Upper
 146 100
 111 44.4 35.4 53.0
 148 58.5 50.4 75.6

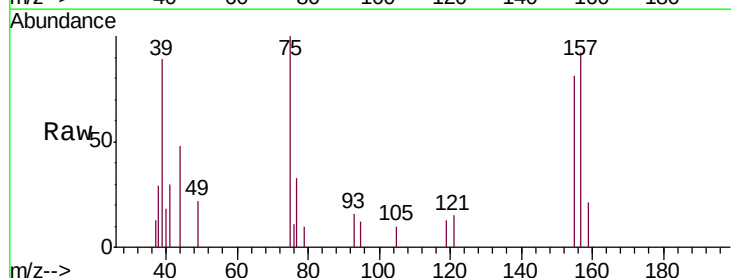


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

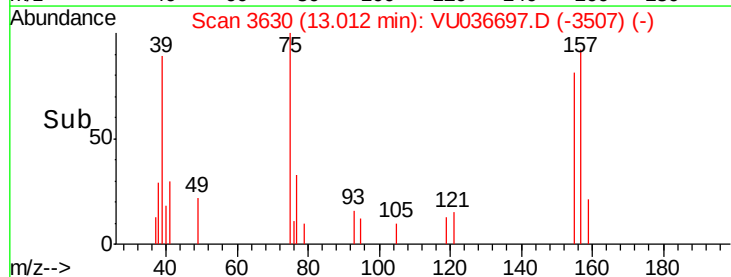
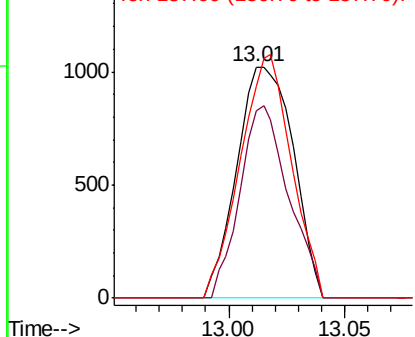


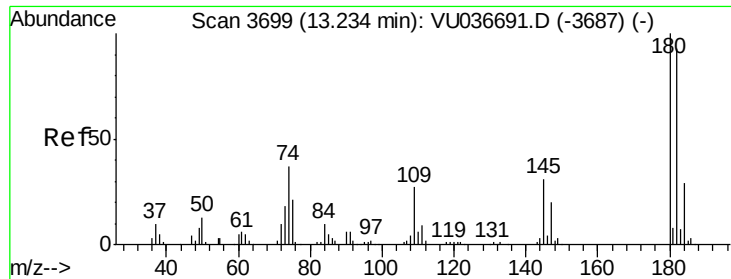
#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.464 ug/L
 RT: 13.01 min Scan# 3630
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion: 75 Resp: 1727
 Ion Ratio Lower Upper
 75 100
 155 81.1 58.7 88.1
 157 91.7 77.8 116.6



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

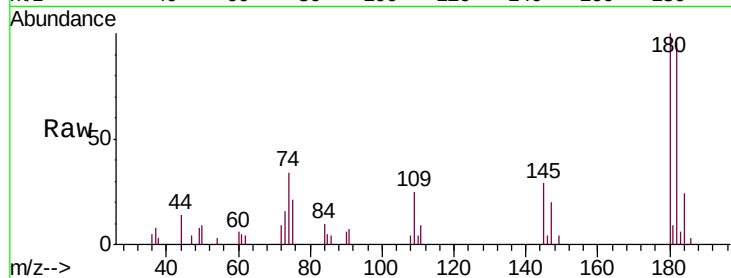




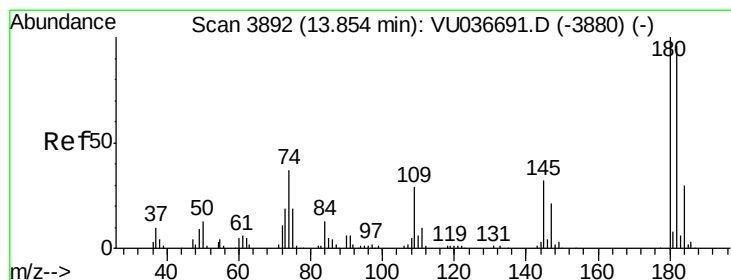
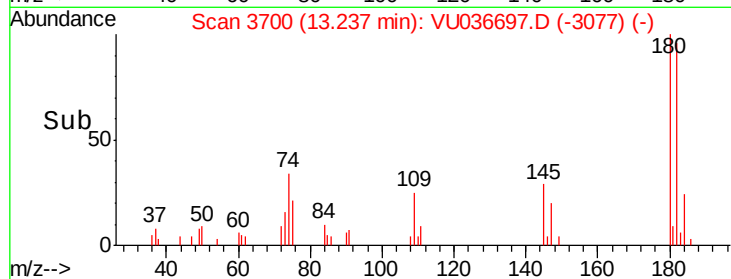
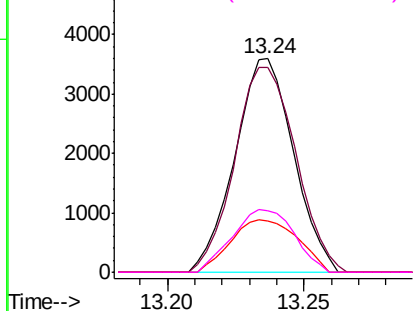
#69
 1,3,5-Trichlorobenzene
 Concen: 2.372 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:180 Resp: 5370
 Ion Ratio Lower Upper
 180 100
 182 100.2 76.2 114.4
 184 28.1 23.8 35.6
 145 31.0 25.0 37.6

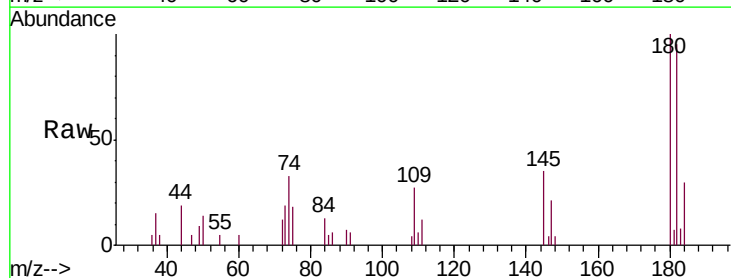


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

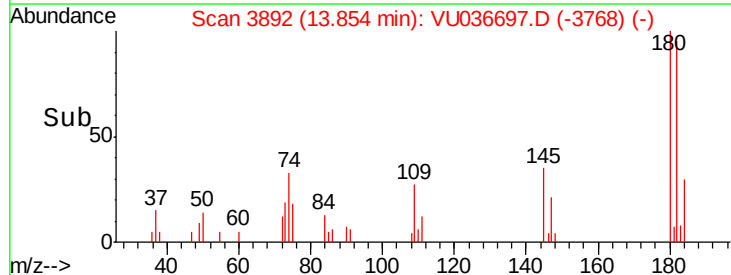
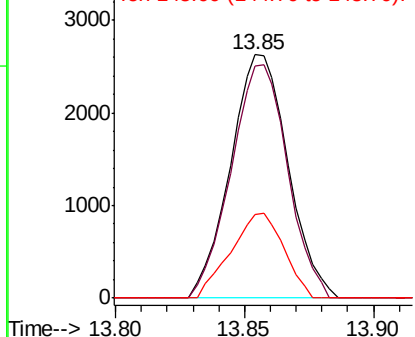


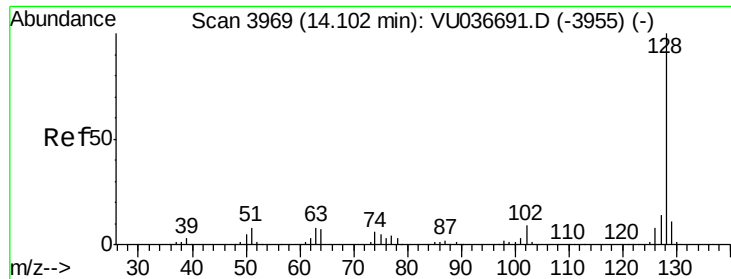
#70
 1,2,4-trichlorobenzene
 Concen: 2.163 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. -0.00 min
 Lab File: VU036697.D
 Acq: 07 Feb 2020 12:50

Tgt Ion:180 Resp: 4084
 Ion Ratio Lower Upper
 180 100
 182 94.0 76.1 114.1
 145 32.1 25.7 38.5



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

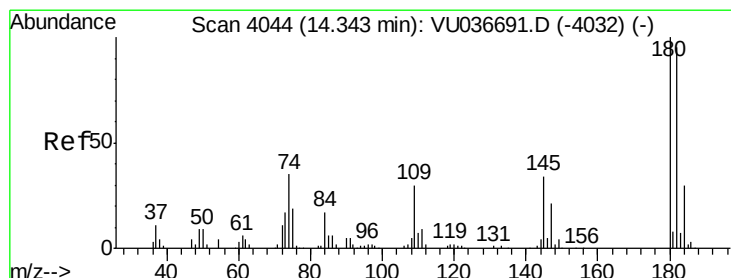
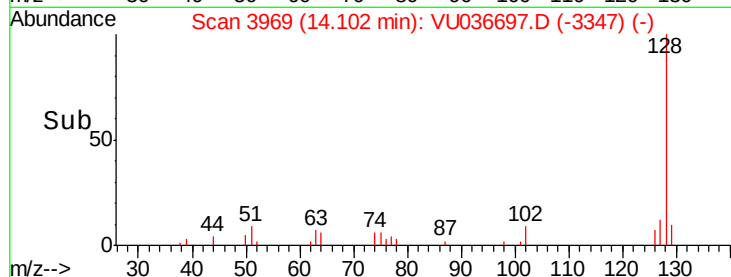
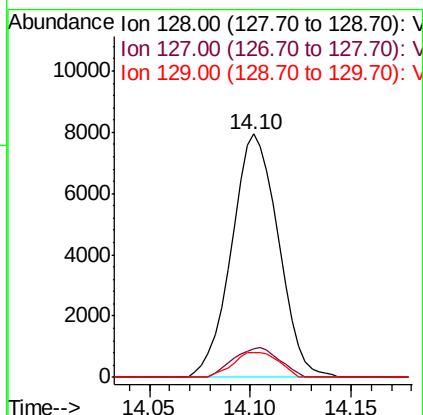
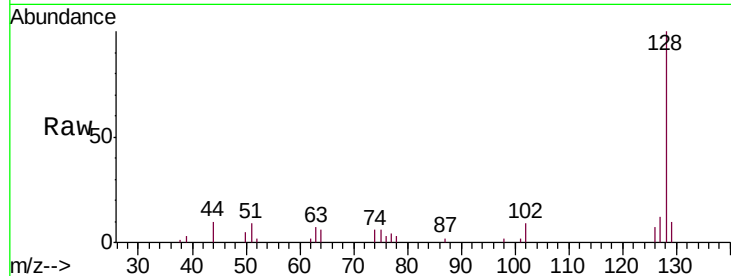




#71
Naphthalene
Concen: 1.943 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. -0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion:128 Resp: 12927
Ion Ratio Lower Upper
128 100
127 12.1 10.6 16.0
129 9.9 8.5 12.7



#72
1,2,3-Trichlorobenzene
Concen: 2.223 ug/L
RT: 14.35 min Scan# 4045
Delta R.T. 0.00 min
Lab File: VU036697.D
Acq: 07 Feb 2020 12:50

Tgt Ion:180 Resp: 4181
Ion Ratio Lower Upper
180 100
182 92.1 76.8 115.2
145 32.9 27.5 41.3

