

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041620\
 Data File : VU037750.D
 Acq On : 16 Apr 2020 13:25
 Operator : JC/MD
 Sample : L2296-06
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 17 01:34:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 01:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	279727	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	272284	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	136059	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	93956	4.44	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.80%
7) Chloroethane-d5	1.93	69	80002	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.59	63	124446	3.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.20%
20) 2-Butanone-d5	4.66	46	286733	49.32	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.64%
24) Chloroform-d	5.10	84	154072	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	5.74	65	93241	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.76	84	336428	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
36) 1,2-Dichloropropane-d6	6.72	67	110881	4.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.60%
41) Toluene-d8	7.92	98	306932	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	8.20	79	48266	4.49	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.80%
46) 2-Hexanone-d5	8.66	63	258510	46.96	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.92%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	87420	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.60%
64) 1,2-Dichlorobenzene-d4	12.21	152	112578	4.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	48091	1.632	ug/L 96
12) 1,1-Dichloroethene	2.60	96	7393	0.383	ug/L # 1
13) Acetone	2.65	43	3195	0.834	ug/L 96
15) Methyl Acetate	3.07	43	10016	0.940	ug/L # 54
16) Methylene chloride	3.07	84	2108	0.097	ug/L # 87
18) trans-1,2-Dichloroethene	3.39	96	5497	0.263	ug/L 94
19) 1,1-Dichloroethane	3.91	63	136788	3.379	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	190114	8.408	ug/L 95
25) Chloroform	5.13	83	80680	2.098	ug/L 95
27) 1,2-Dichloroethane	5.83	62	14158	0.545	ug/L 96
29) 1,1,1-Trichloroethane	5.35	97	46314	1.402	ug/L 97
30) Cyclohexane	5.42	56	9734	0.238	ug/L 97
31) Carbon tetrachloride	5.35	117	5510	0.209	ug/L 87
33) Benzene	5.81	78	34134	0.379	ug/L 100
34) Trichloroethene	6.57	95	8845	0.400	ug/L 90
35) Methylcyclohexane	6.72	83	25406	0.656	ug/L # 17
37) 1,2-Dichloropropane	6.72	63	12428	0.521	ug/L # 87

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 Quant Title : TRACE VOA SOM01.0
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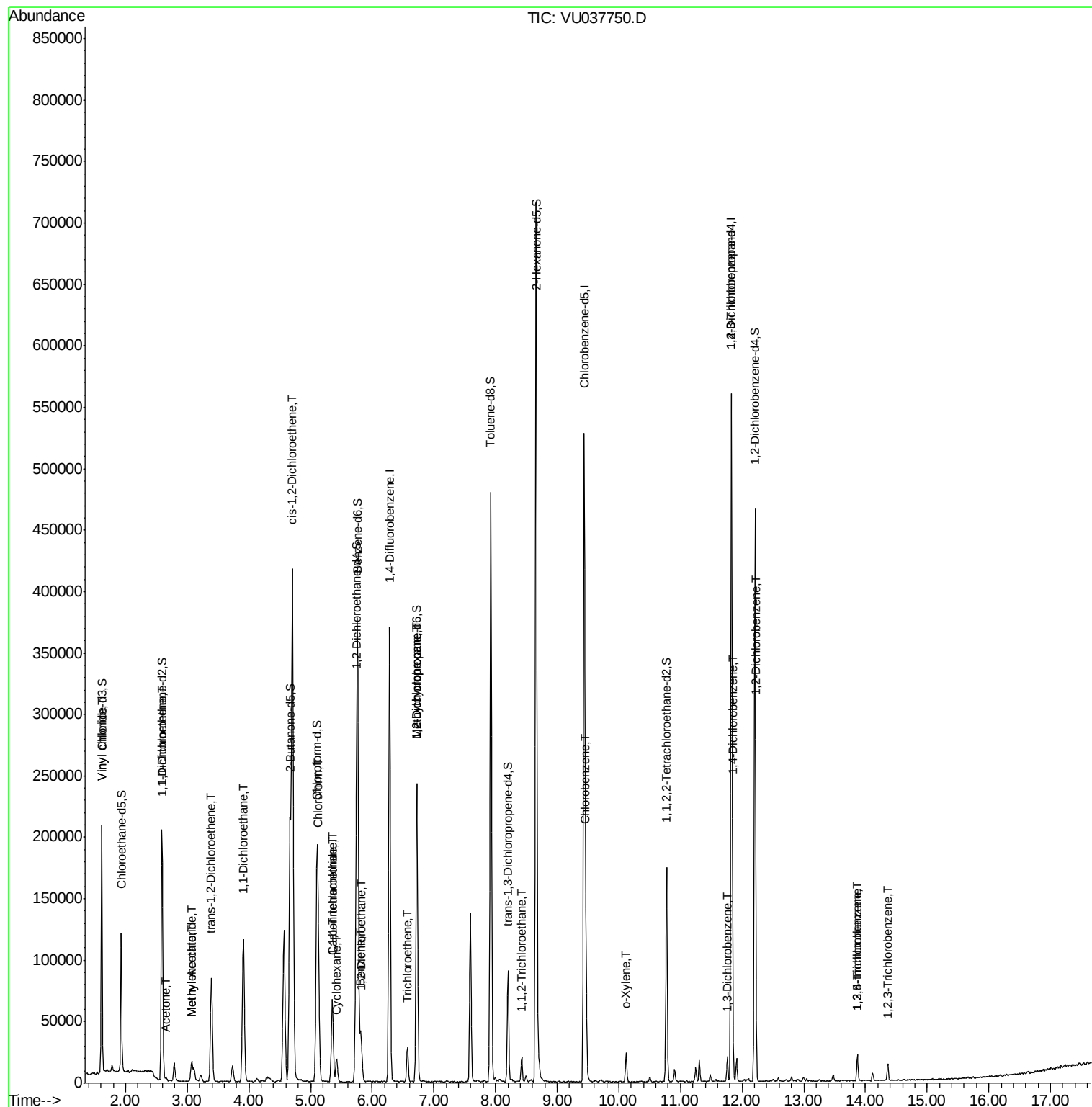
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.43	97	5822	0.362	ug/L	94
51) Chlorobenzene	9.47	112	57676	1.003	ug/L	99
54) o-Xylene	10.12	106	5797	0.148	ug/L	100
59) 1,2,3-Trichloropropane	11.83	75	23244	1.488	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	7774	0.171	ug/L	91
63) 1,4-Dichlorobenzene	11.85	146	10259	0.224	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	4471	0.104	ug/L	98
67) 1,3,5-Trichlorobenzene	13.87	180	6148	0.184	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	6148	0.200	ug/L	96
70) 1,2,3-Trichlorobenzene	14.36	180	4394	0.161	ug/L	94

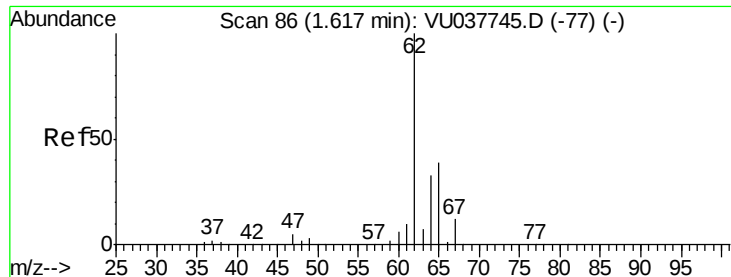
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041620\
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#5

Vinyl chloride

Concen: 1.632 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Instrument :

MSVOA_U

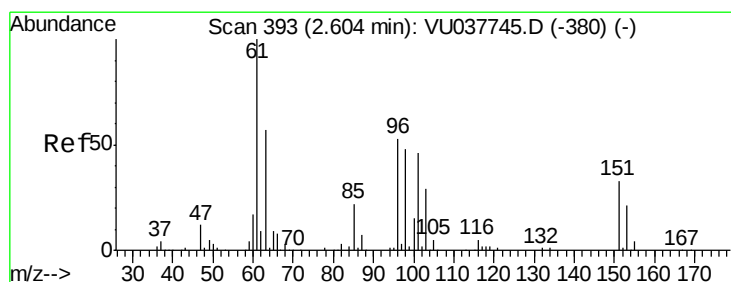
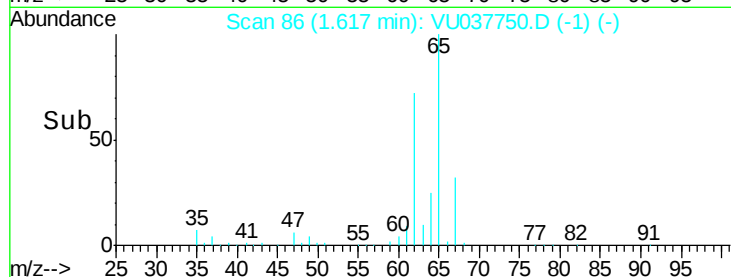
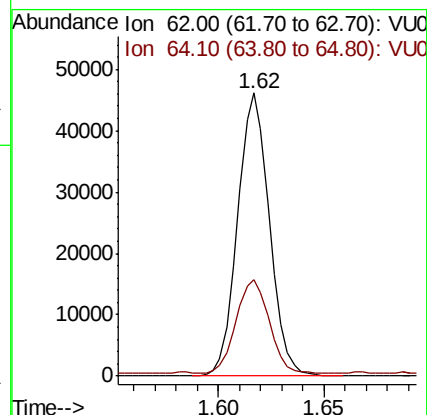
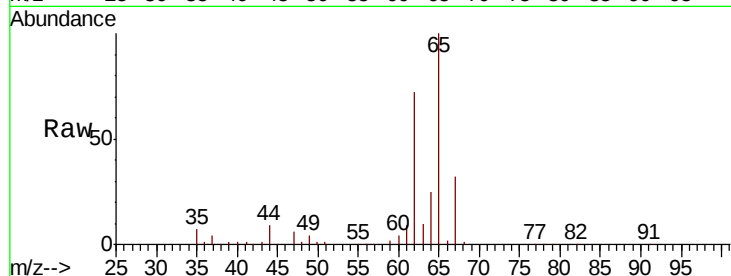
ClientSampled :

Tot Ion: 62 Resp: 48091

Ion Ratio Lower Upper

62 100

64 34.1 22.1 41.1



#12

1,1-Dichloroethene

Concen: 0.383 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

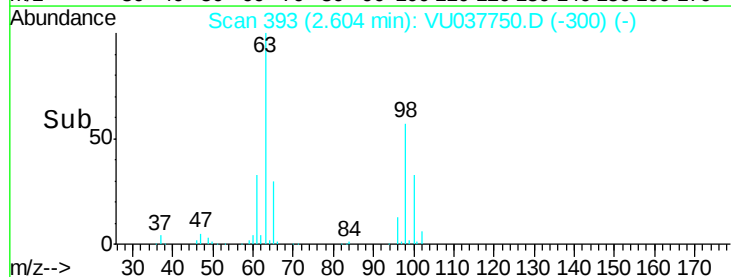
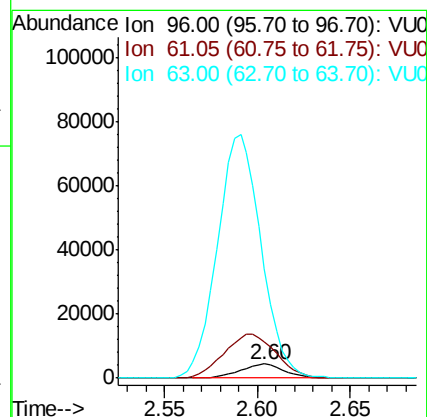
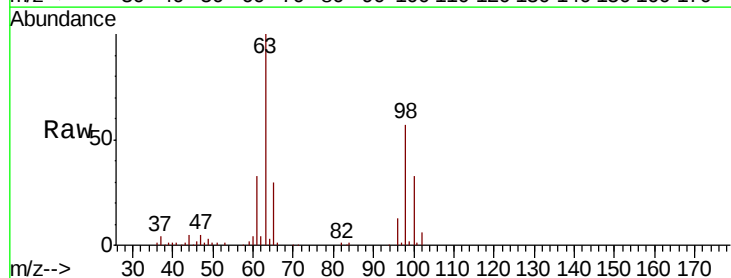
Tgt Ion: 96 Resp: 7393

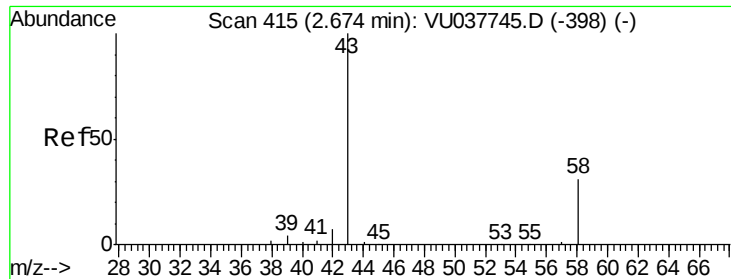
Ion Ratio Lower Upper

96 100

61 258.9 127.7 237.3#

63 784.0 85.0 157.8#





#13

Acetone

Concen: 0.834 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.02 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Instrument :

MSVOA_U

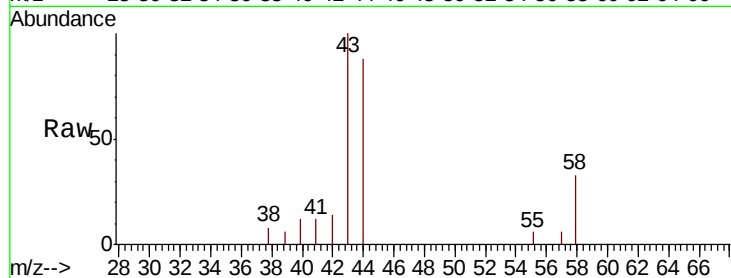
ClientSampleId :

Tot Ion: 43 Resp: 3195

Ion Ratio Lower Upper

43 100

58 30.2 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU037750.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU037750.D (-322) (-)

2.65

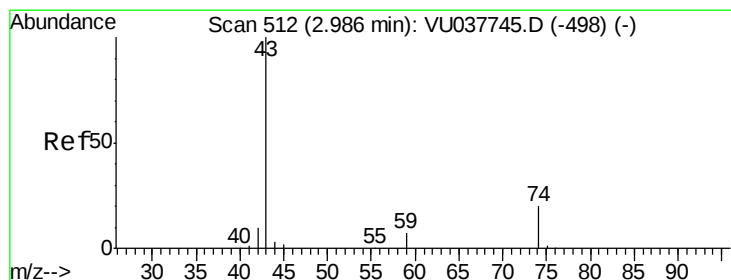
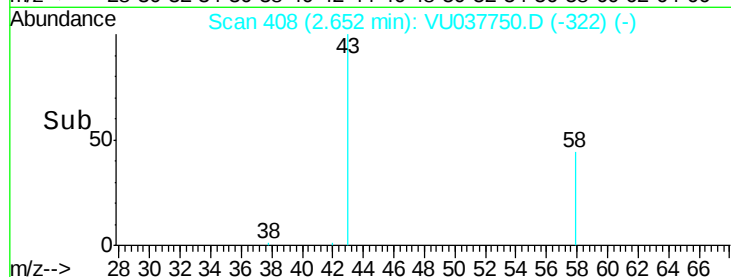
1500

1000

500

0

Time-->



#15

Methyl Acetate

Concen: 0.940 ug/L

RT: 3.07 min Scan# 539

Delta R.T. 0.09 min

Lab File: VU037750.D

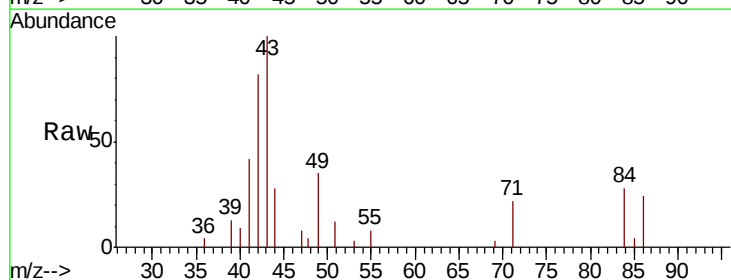
Acq: 16 Apr 2020 13:25

Tgt Ion: 43 Resp: 10016

Ion Ratio Lower Upper

43 100

74 0.0 17.2 25.8#



Abundance Ion 43.05 (42.75 to 43.75): VU037750.D (-419) (-)

Ion 74.05 (73.75 to 74.75): VU037750.D (-419) (-)

3.07

4000

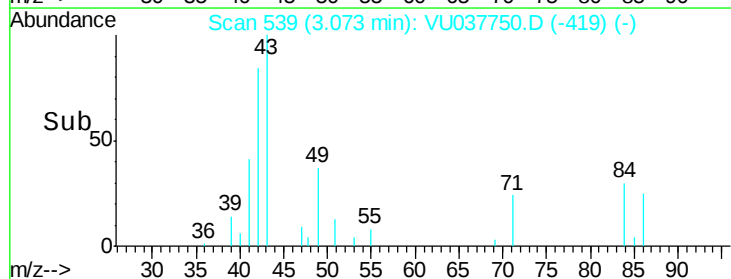
3000

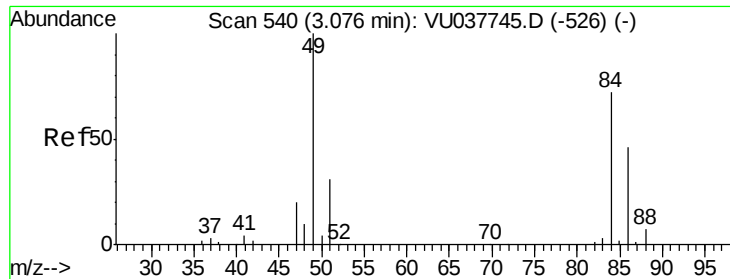
2000

1000

0

Time-->

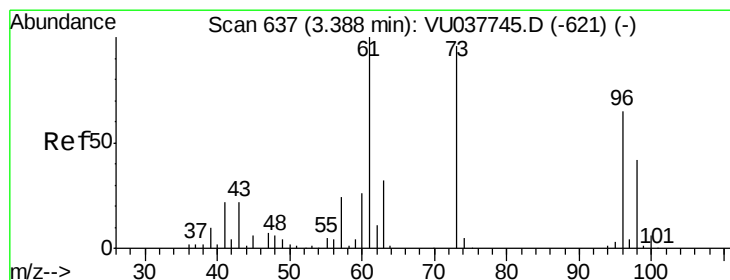
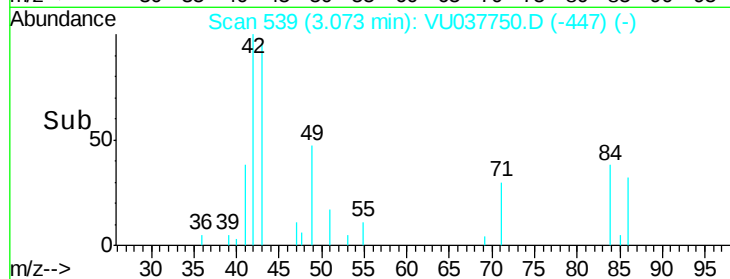
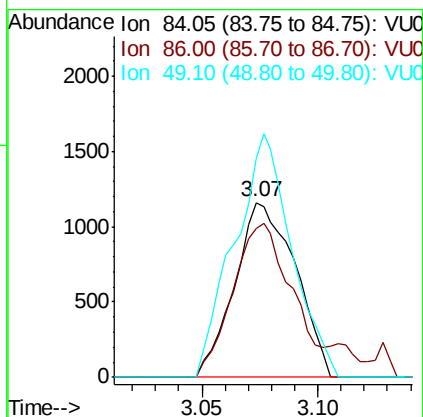
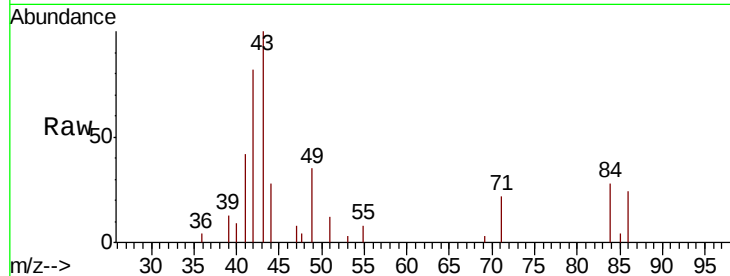




#16
Methvlene chloride
Concen: 0.097 ug/L
RT: 3.07 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU037750.D
Acq: 16 Apr 2020 13:25

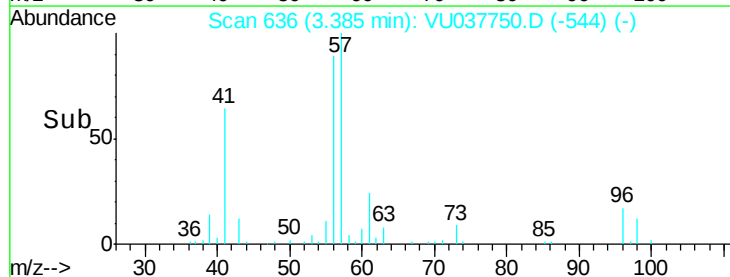
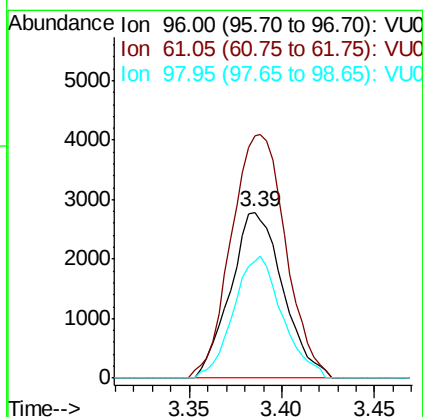
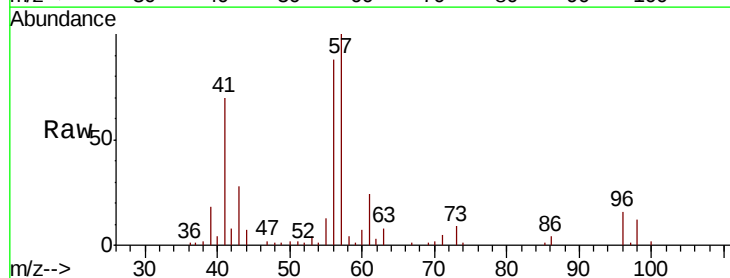
Instrument :
MSVOA_U
ClientSampleId :

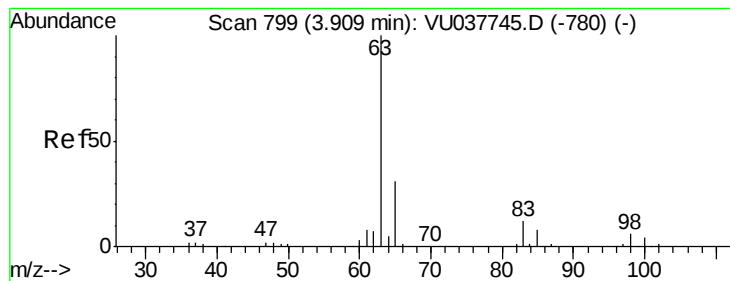
Tot Ion: 84 Resp: 2108
Ion Ratio Lower Upper
84 100
86 85.2 44.2 82.0#
49 125.4 92.4 171.6



#18
trans-1,2-Dichloroethene
Concen: 0.263 ug/L
RT: 3.39 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU037750.D
Acq: 16 Apr 2020 13:25

Tgt Ion: 96 Resp: 5497
Ion Ratio Lower Upper
96 100
61 146.1 106.7 198.3
98 70.8 44.3 82.3





#19

1,1-Dichloroethane

Concen: 3.379 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Instrument :

MSVOA_U

ClientSampleId :

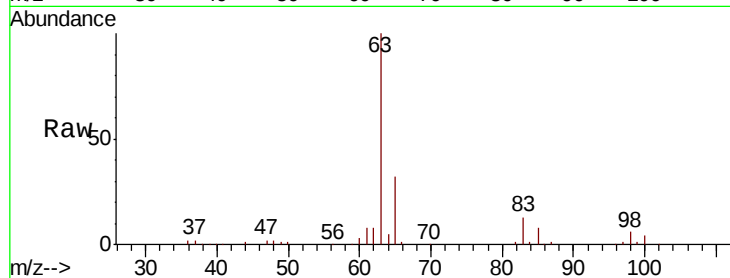
Tot Ion: 63 Resp: 136788

Ion Ratio Lower Upper

63 100

65 32.4 21.6 40.2

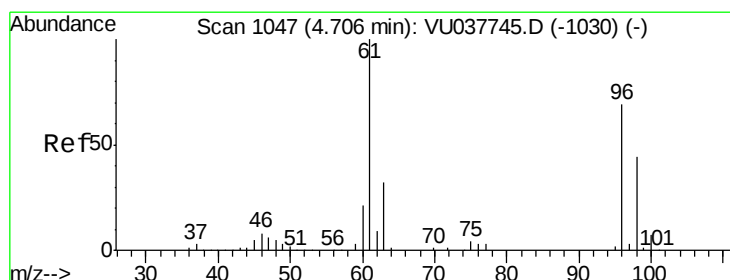
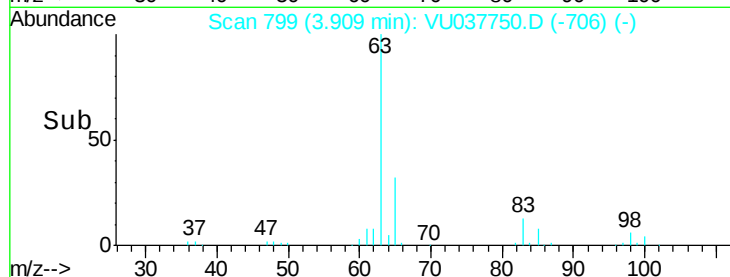
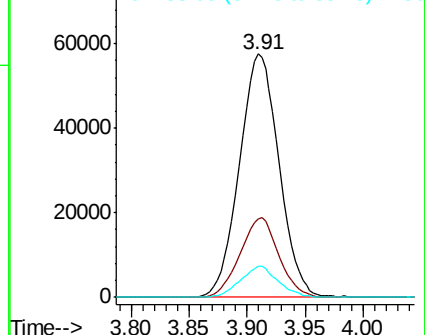
83 12.5 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU037750.D (-780) (-)

Ion 65.10 (64.80 to 65.80): VU037750.D (-780) (-)

Ion 83.05 (82.75 to 83.75): VU037750.D (-780) (-)



#22

cis-1,2-Dichloroethene

Concen: 8.408 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

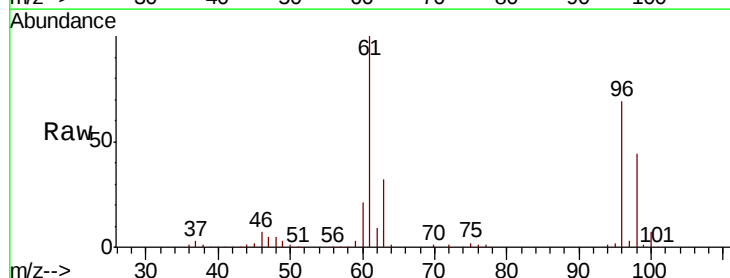
Tgt Ion: 96 Resp: 190114

Ion Ratio Lower Upper

96 100

61 145.0 97.0 180.2

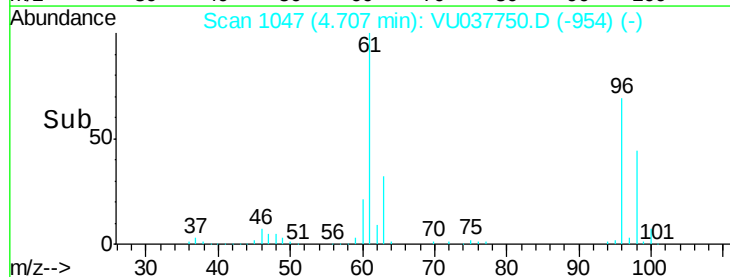
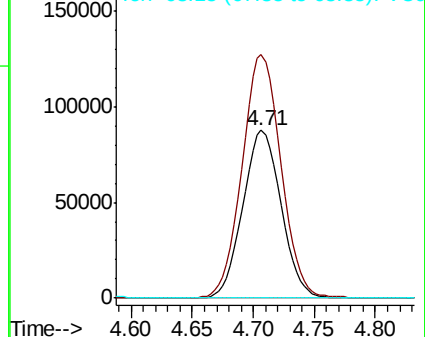
68 0.0 0.0 0.0

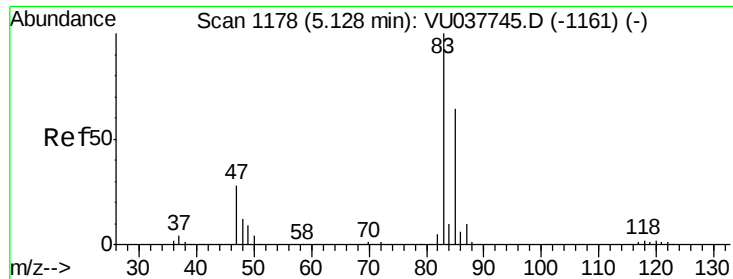


Abundance Ion 96.00 (95.70 to 96.70): VU037750.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU037750.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU037750.D (-954) (-)

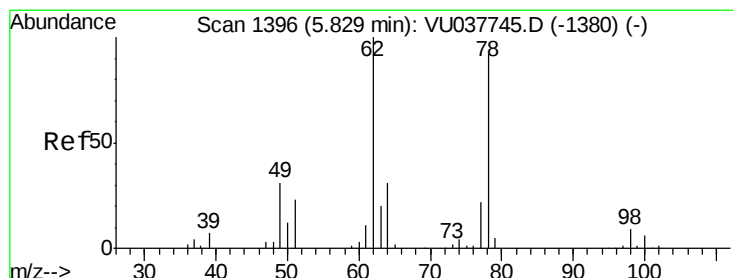
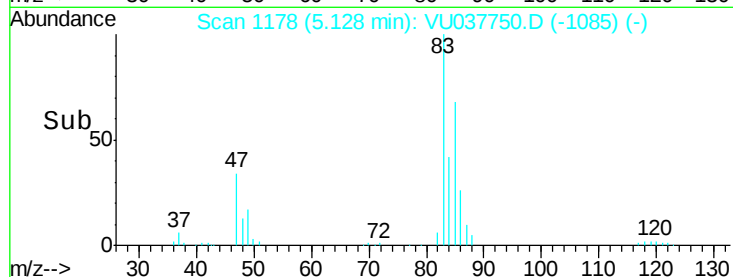
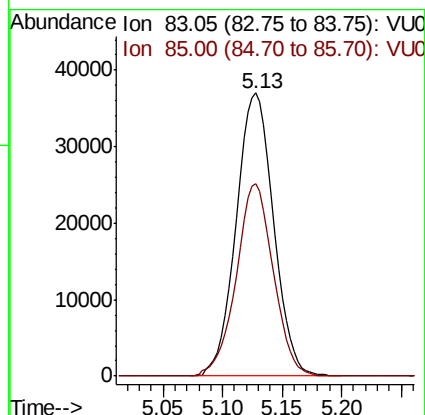
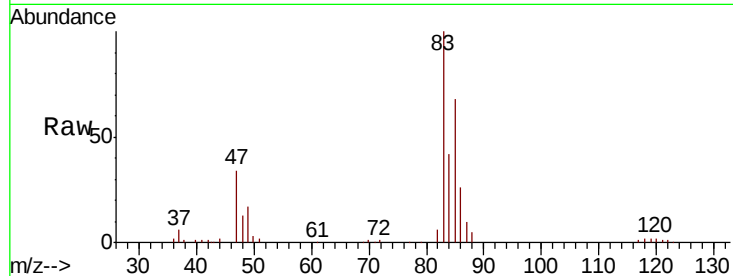




#25
Chloroform
Concen: 2.098 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037750.D
Acq: 16 Apr 2020 13:25

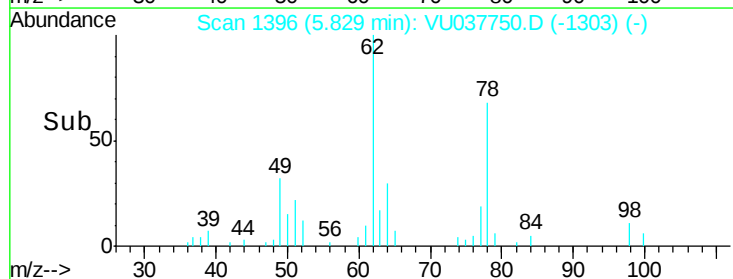
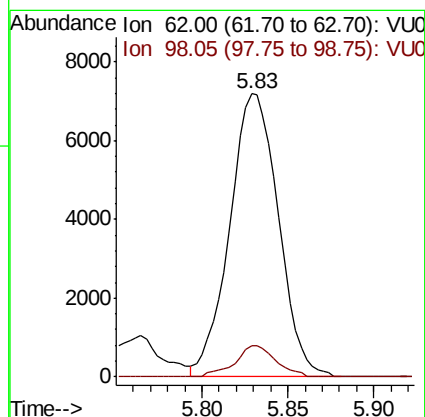
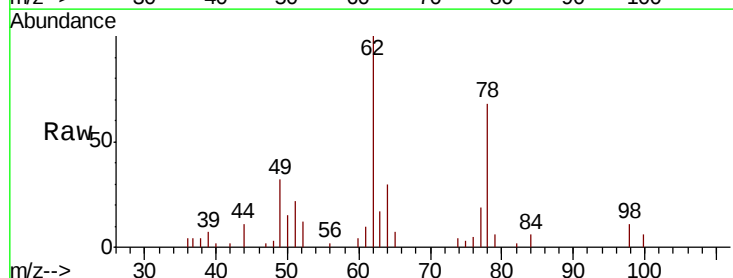
Instrument :
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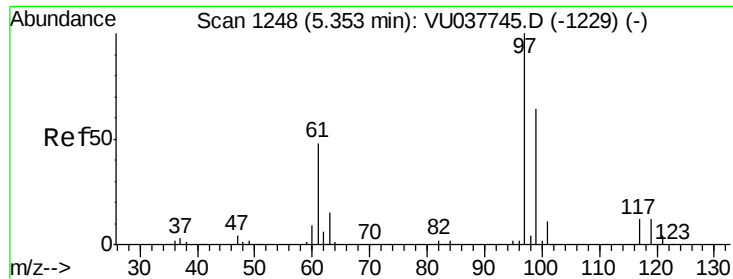
Tot Ion: 83 Resp: 80680
Ion Ratio Lower Upper
83 100
85 67.9 44.9 83.3



#27
1,2-Dichloroethane
Concen: 0.545 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU037750.D
Acq: 16 Apr 2020 13:25

Tgt Ion: 62 Resp: 14158
Ion Ratio Lower Upper
62 100
98 10.8 7.6 11.4

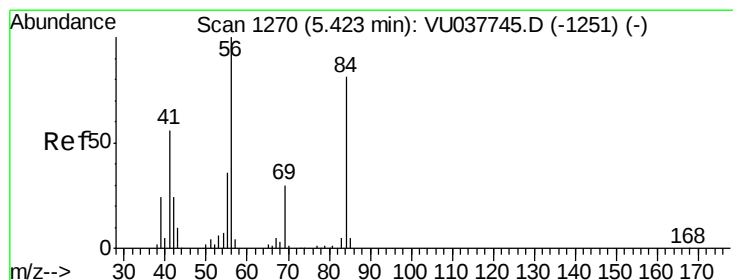
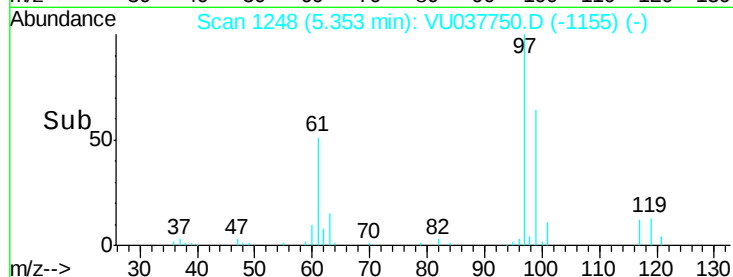
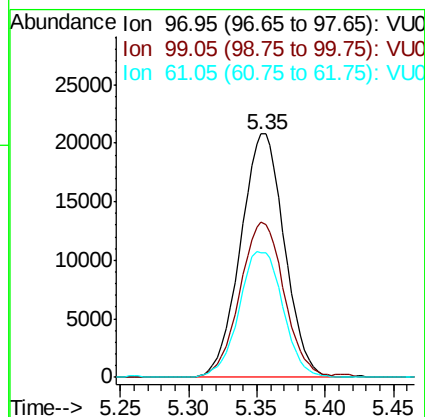
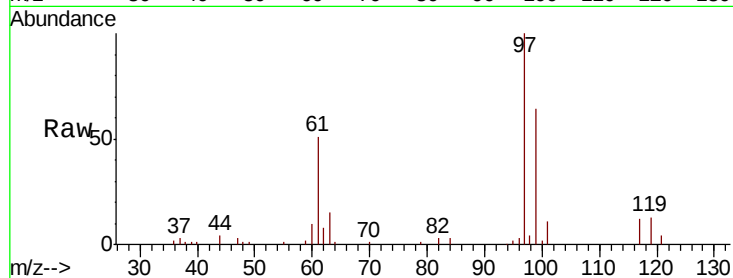




#29
 1,1,1-Trichloroethane
 Concen: 1.402 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

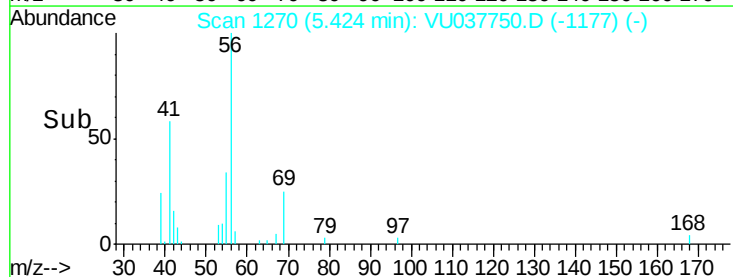
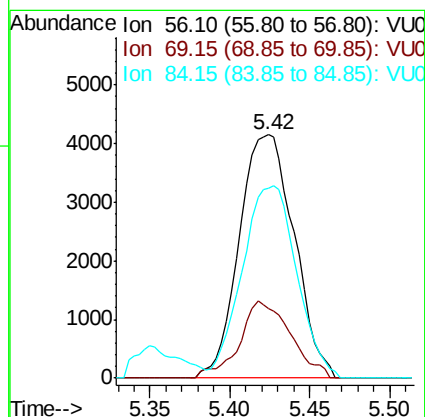
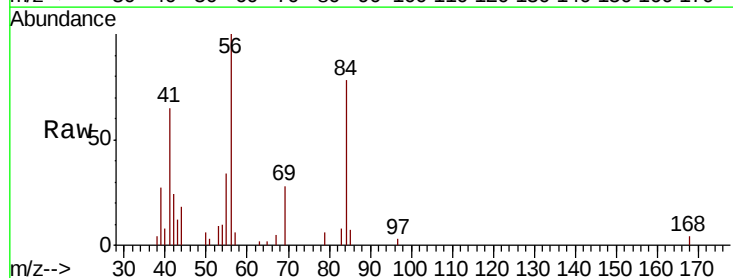
Instrument :
 MSVOA_U
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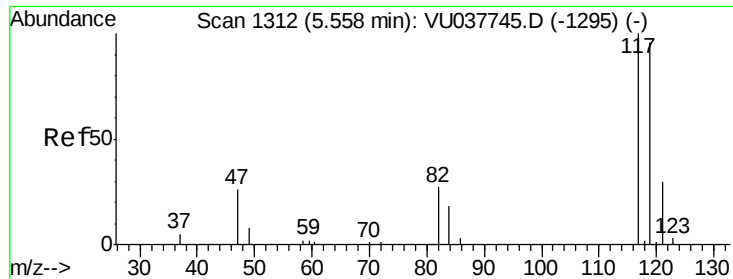
Tot Ion: 97 Resp: 46314
 Ion Ratio Lower Upper
 97 100
 99 64.6 52.0 78.0
 61 51.8 37.8 56.8



#30
 Cyclohexane
 Concen: 0.238 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Tgt Ion: 56 Resp: 9734
 Ion Ratio Lower Upper
 56 100
 69 29.4 23.9 35.9
 84 78.6 65.6 98.4





#31

Carbon tetrachloride

Concen: 0.209 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Instrument :

MSVOA_U

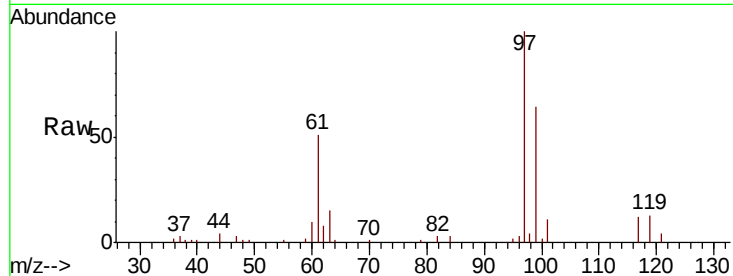
ClientSampleId :

Tot Ion:117 Resp: 5510

Ion Ratio Lower Upper

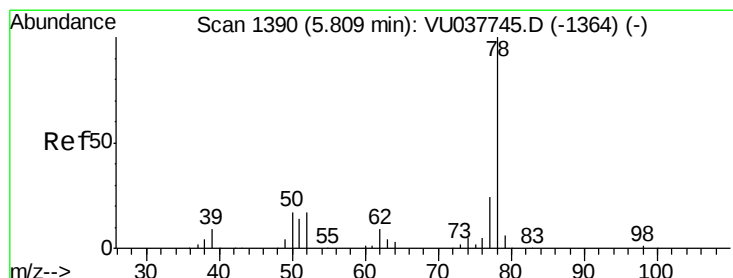
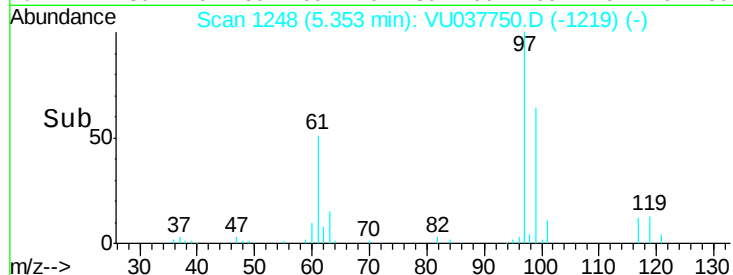
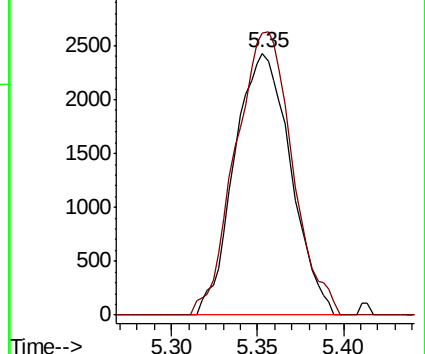
117 100

119 109.5 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.379 ug/L

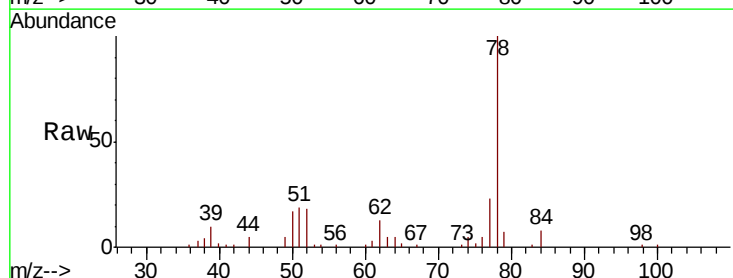
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

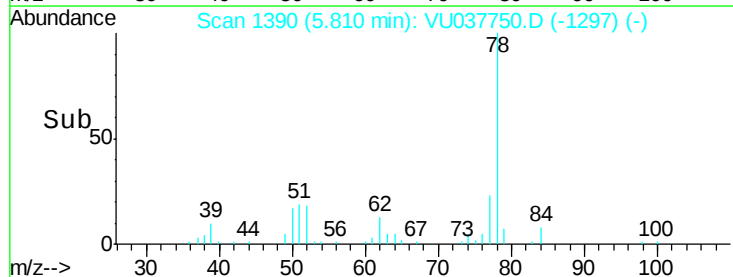
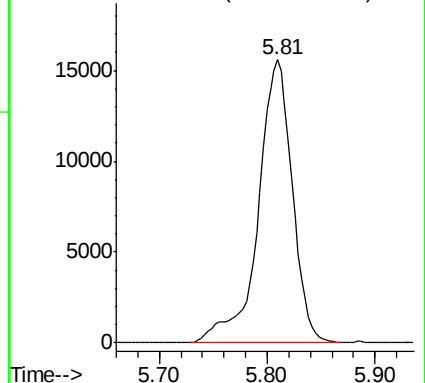
Lab File: VU037750.D

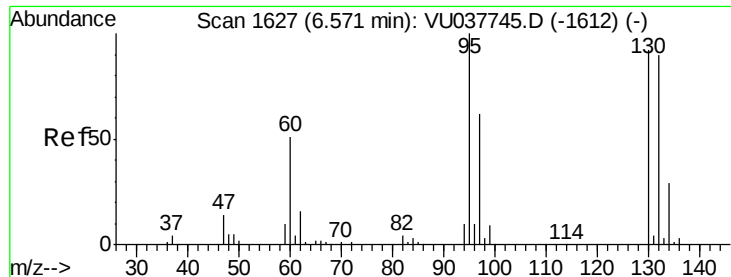
Acq: 16 Apr 2020 13:25

Tgt Ion: 78 Resp: 34134



Abundance Ion 78.10 (77.80 to 78.80): VU0

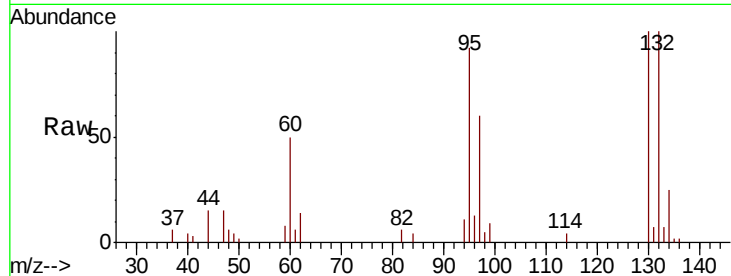




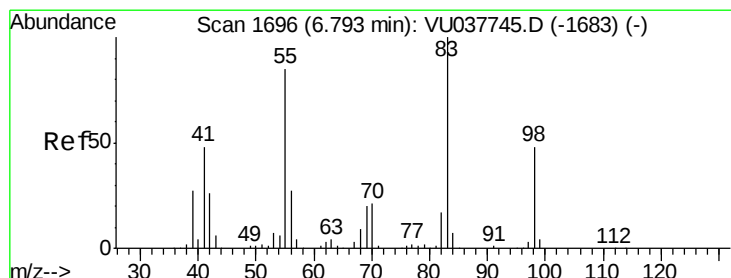
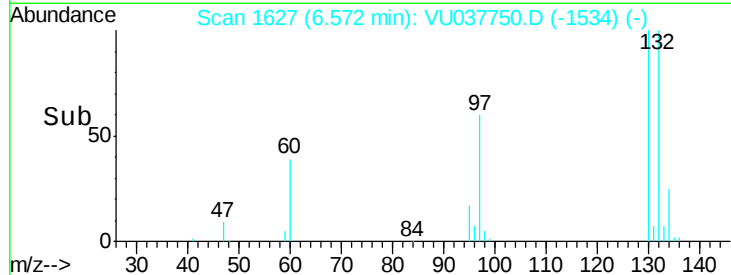
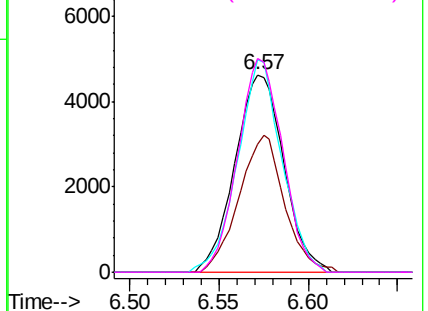
#34
 Trichloroethene
 Concen: 0.400 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 8845
 Ion Ratio Lower Upper
 95 100
 97 64.9 45.4 84.2
 132 107.9 63.7 118.3
 130 108.2 68.7 127.5

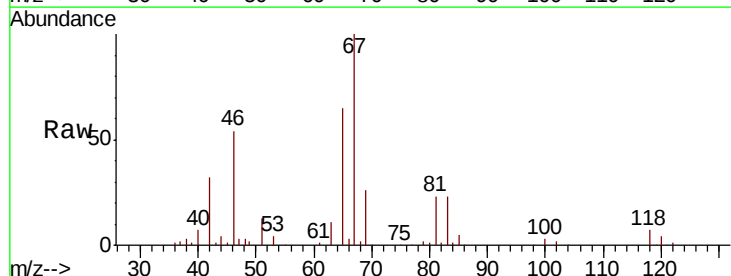


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

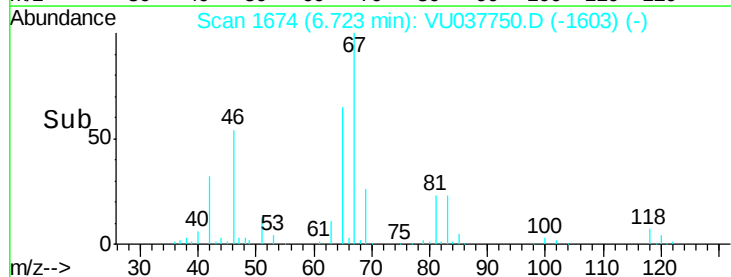
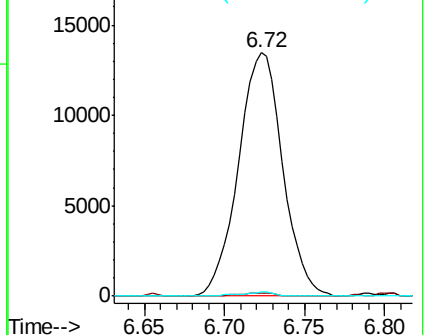


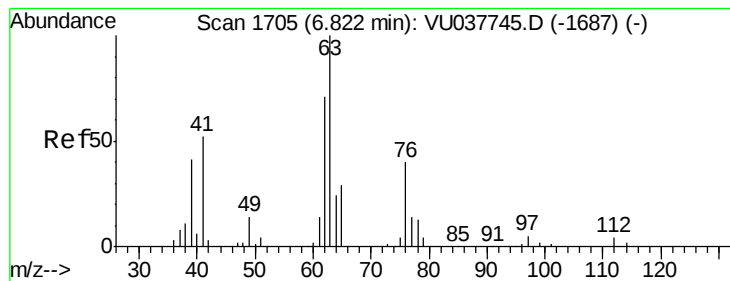
#35
 Methylcyclohexane
 Concen: 0.656 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Tgt Ion: 83 Resp: 25406
 Ion Ratio Lower Upper
 83 100
 55 1.0 65.5 98.3#
 98 1.2 38.2 57.4#



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: 0.521 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Instrument :

MSVOA_U

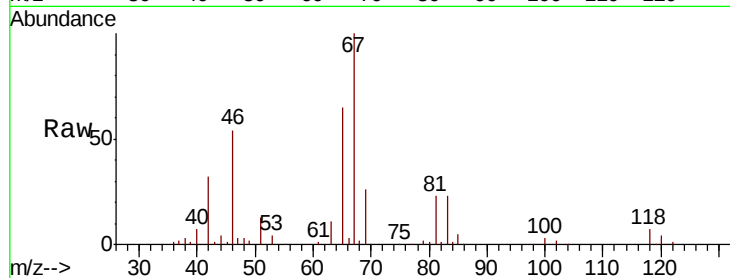
ClientSampleId :

Tot Ion: 63 Resp: 12428

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VU037750.D (-1612) (-)

Ion 112.10 (111.80 to 112.80): VU037750.D (-1612) (-)

6.72

8000

6000

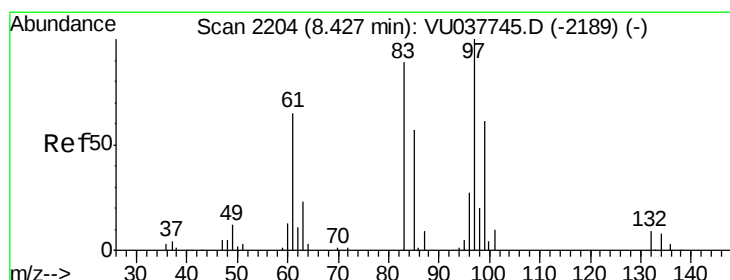
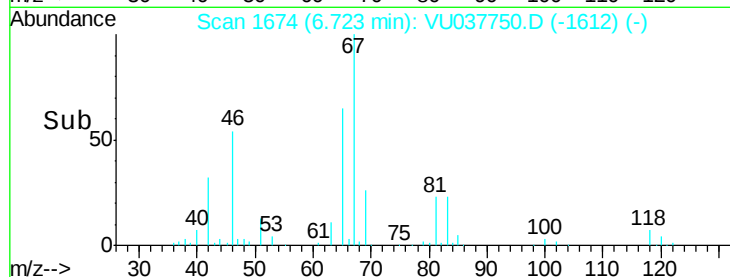
4000

2000

0

Time-->

6.65 6.70 6.75



#45

1,1,2-Trichloroethane

Concen: 0.362 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Tgt Ion: 97 Resp: 5822

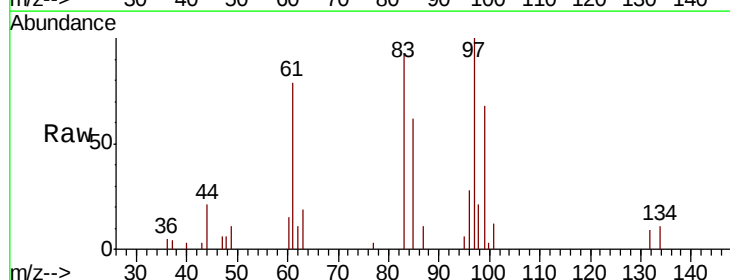
Ion Ratio Lower Upper

97 100

99 68.0 43.1 80.1

83 93.4 62.4 116.0

85 62.1 39.6 73.6



Abundance Ion 96.95 (96.65 to 97.65): VU037750.D (-2111) (-)

Ion 99.05 (98.75 to 99.75): VU037750.D (-2111) (-)

Ion 82.95 (82.65 to 83.65): VU037750.D (-2111) (-)

Ion 85.00 (84.70 to 85.70): VU037750.D (-2111) (-)

8.43

5000

4000

3000

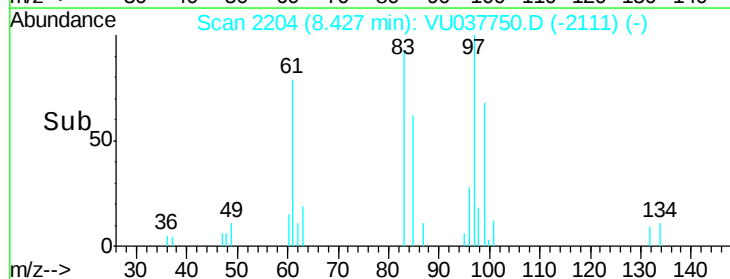
2000

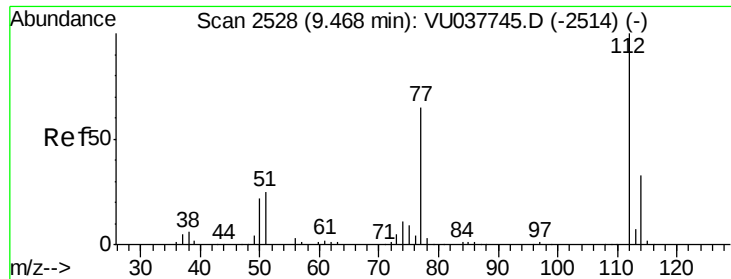
1000

0

Time-->

8.40 8.45

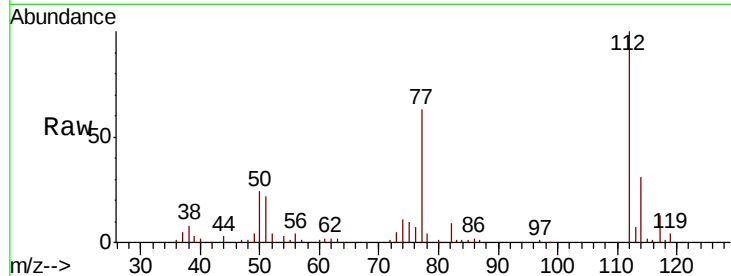




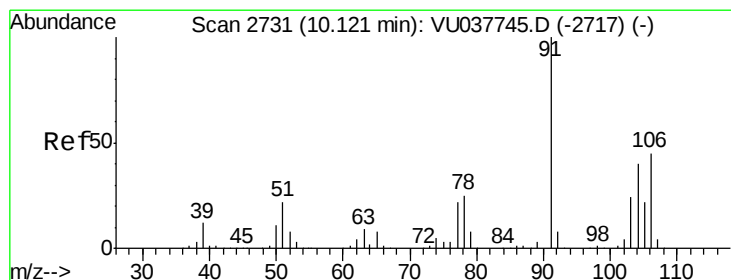
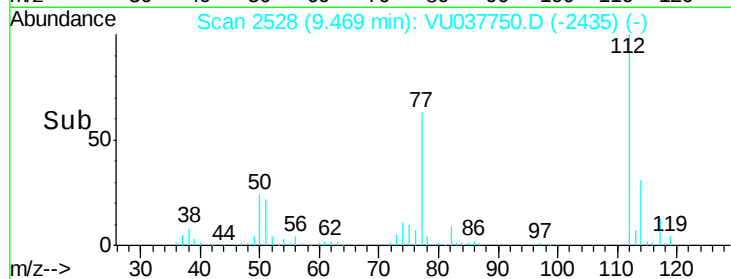
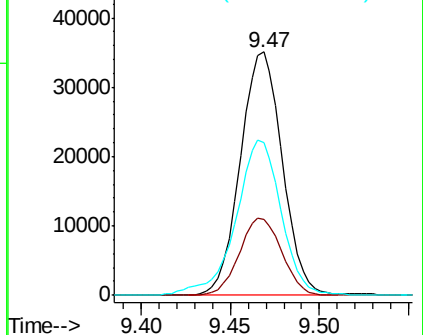
#51
Chlorobenzene
Concen: 1.003 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037750.D
Acq: 16 Apr 2020 13:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:112 Resp: 57676
Ion Ratio Lower Upper
112 100
114 30.9 22.6 42.0
77 62.7 50.2 75.4

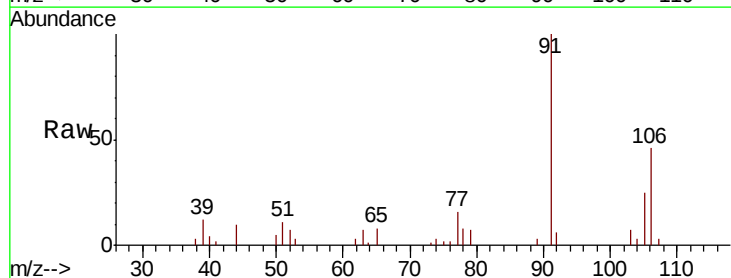


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

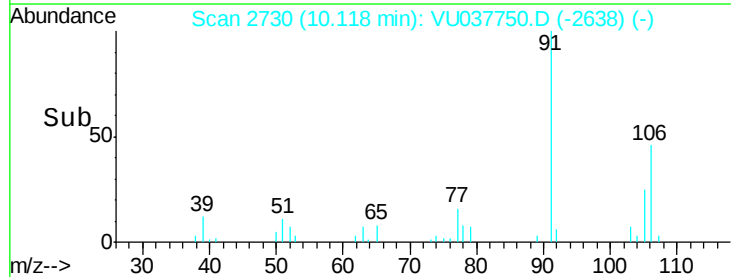
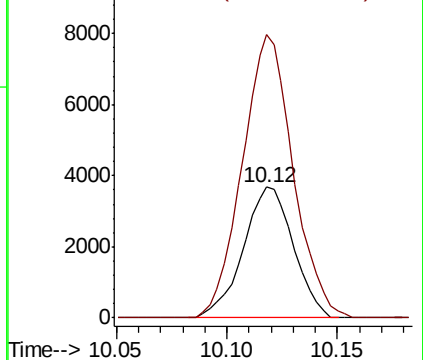


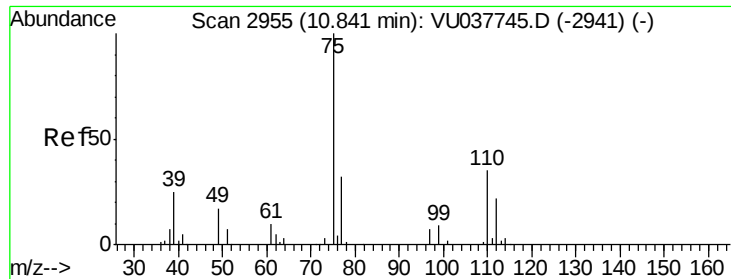
#54
o-Xylene
Concen: 0.148 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037750.D
Acq: 16 Apr 2020 13:25

Tgt Ion:106 Resp: 5797
Ion Ratio Lower Upper
106 100
91 216.4 151.1 280.7



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): V

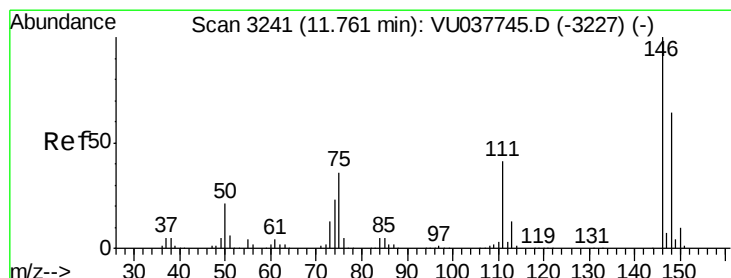
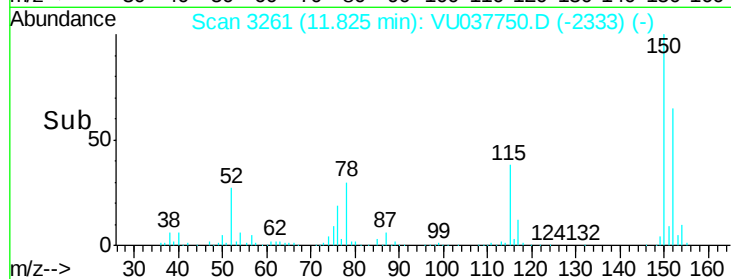
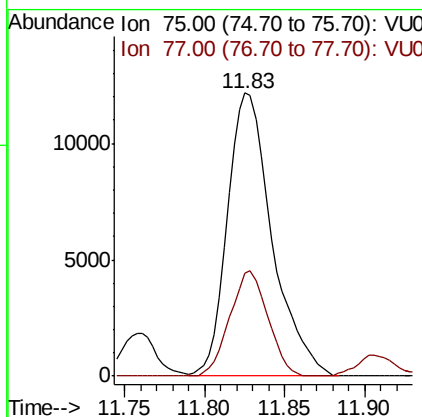
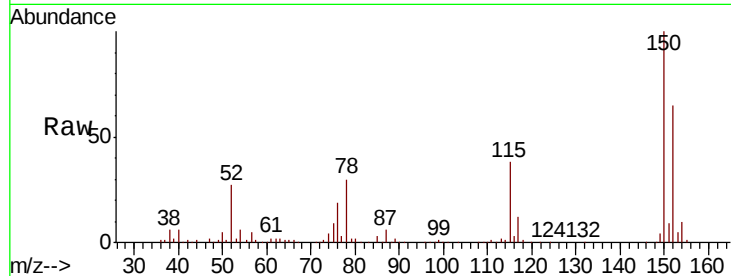




#59
 1,2,3-Trichloropropane
 Concen: 1.488 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

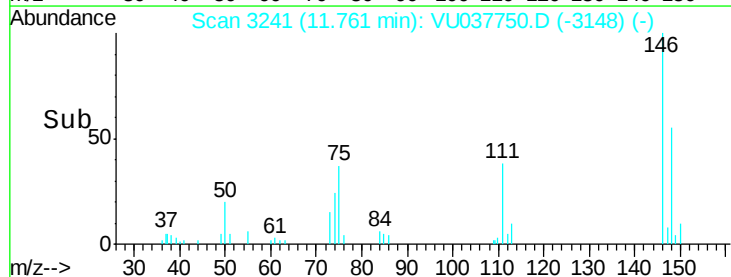
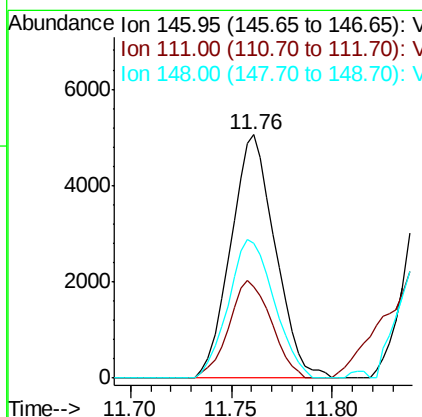
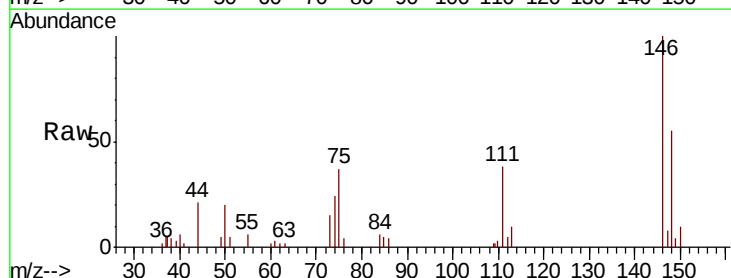
Instrument :
 MSVOA_U
 ClientSampleId :

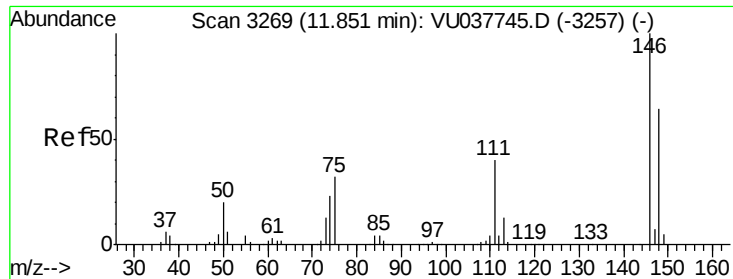
Tot Ion: 75 Resp: 23244
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.4 38.2



#62
 1,3-Dichlorobenzene
 Concen: 0.171 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Tgt Ion: 146 Resp: 7774
 Ion Ratio Lower Upper
 146 100
 111 37.7 29.8 55.3
 148 55.3 44.5 82.7





#63

1,4-Dichlorobenzene

Concen: 0.224 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

Instrument :

MSVOA_U

ClientSampled :

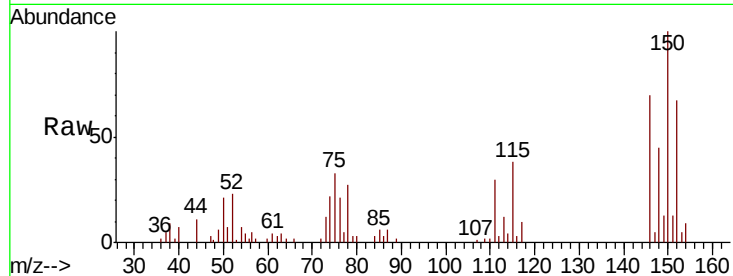
Tot Ion:146 Resp: 10259

Ion Ratio Lower Upper

146 100

111 42.7 28.4 52.8

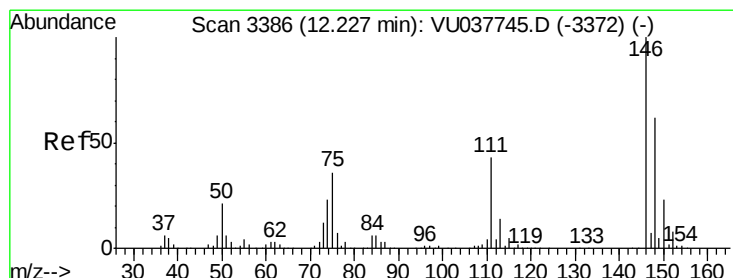
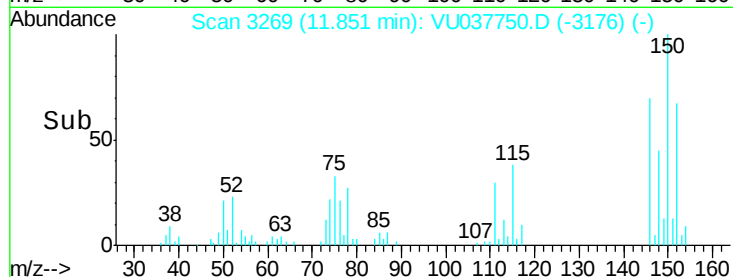
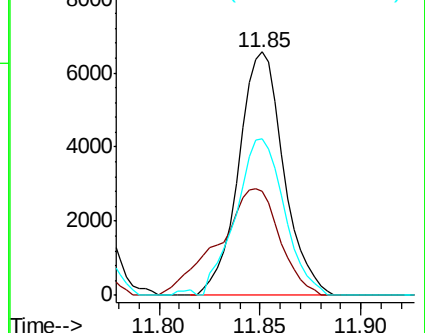
148 64.3 44.9 83.3



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: 0.104 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037750.D

Acq: 16 Apr 2020 13:25

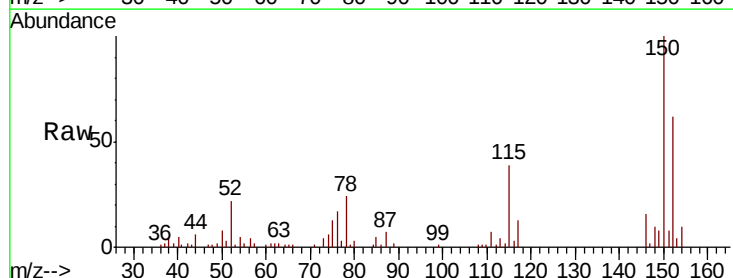
Tgt Ion:146 Resp: 4471

Ion Ratio Lower Upper

146 100

111 46.9 35.0 52.6

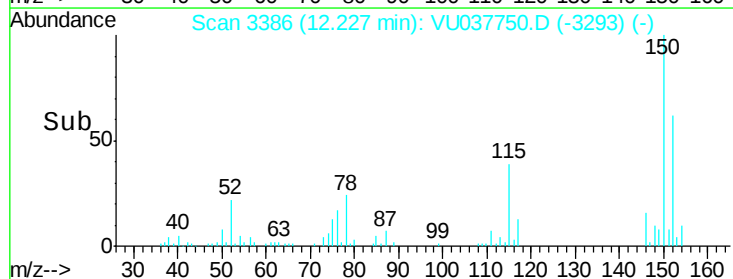
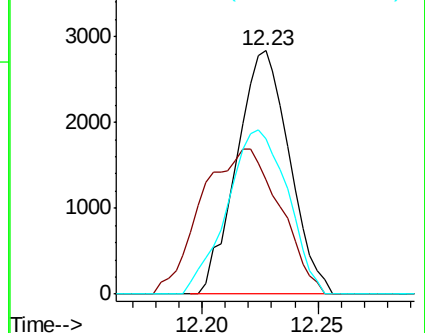
148 64.0 51.5 77.3

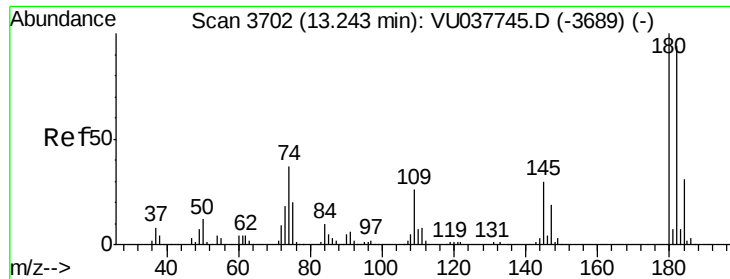


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

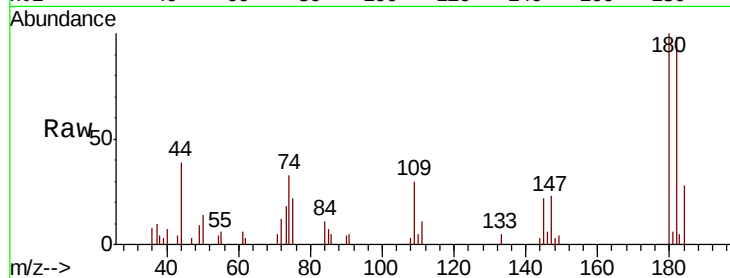




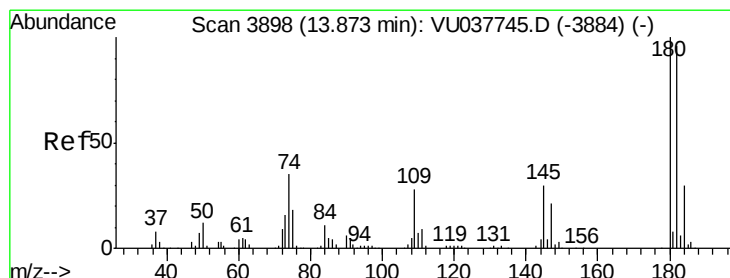
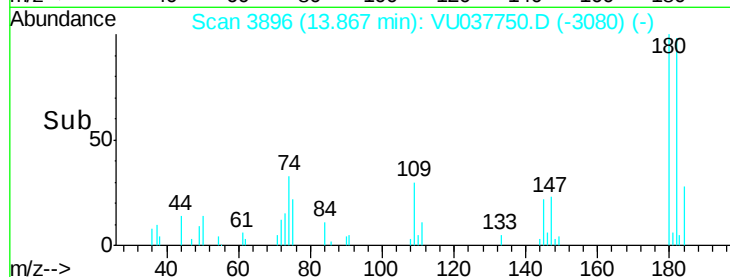
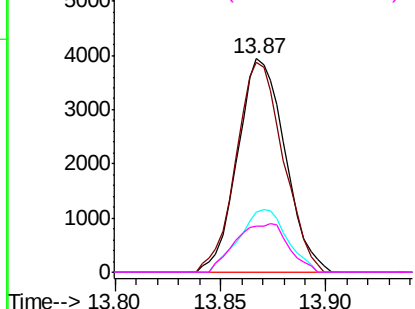
#67
 1,3,5-Trichlorobenzene
 Concen: 0.184 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.62 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 6148
 Ion Ratio Lower Upper
 180 100
 182 97.6 77.1 115.7
 184 29.7 24.7 37.1
 145 25.5 24.6 37.0

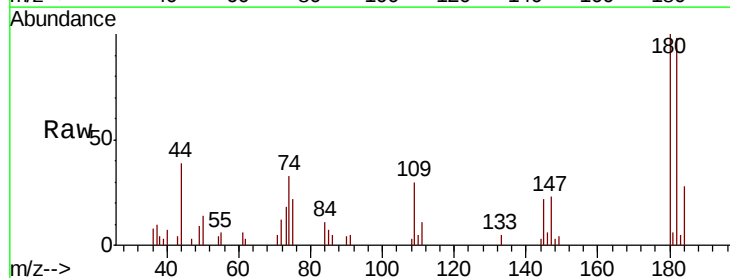


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

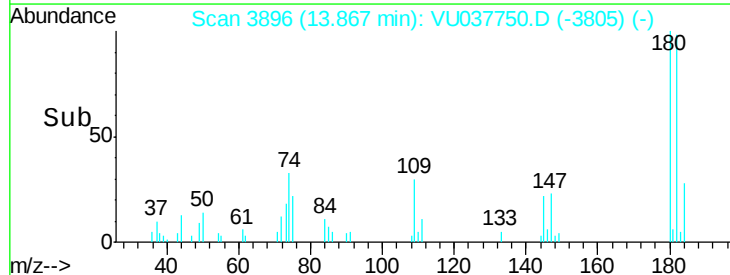
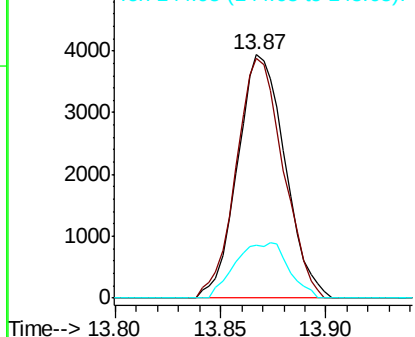


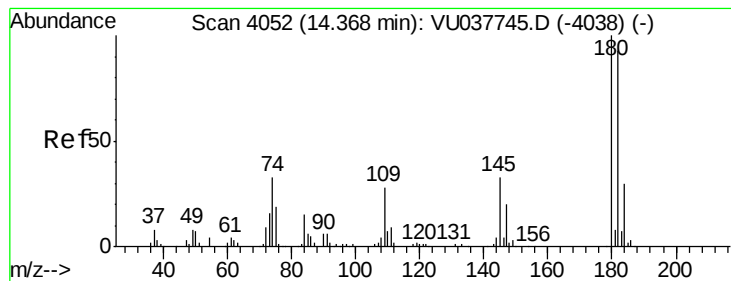
#68
 1,2,4-trichlorobenzene
 Concen: 0.200 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Tgt Ion:180 Resp: 6148
 Ion Ratio Lower Upper
 180 100
 182 97.6 76.4 114.6
 145 25.5 25.1 37.7



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





#70
 1,2,3-Trichlorobenzene
 Concen: 0.161 ug/L
 RT: 14.36 min Scan# 4050
 Delta R.T. -0.01 min
 Lab File: VU037750.D
 Acq: 16 Apr 2020 13:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 4394
 Ion Ratio Lower Upper
 180 100
 182 90.3 76.6 115.0
 145 29.1 26.7 40.1

