

Data File : VU034410.D
Acq On : 08 Sep 2019 03:53
Operator : JC/SP
Sample : K4703-14
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFD97

Quant Time: Sep 08 04:18:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR090119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sun Sep 08 03:44:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	277807	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	284231	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	127546	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	74242	3.97	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.40%
7) Chloroethane-d5	1.68	69	68735	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.27	63	164631	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.00%
20) 2-Butanone-d5	4.17	46	221284	51.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.40%
24) Chloroform-d	4.63	84	153692	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.29	65	78336	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.32	84	323400	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.40%
36) 1,2-Dichloropropane-d6	6.31	67	108885	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.60%
41) Toluene-d8	7.55	98	276056	3.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.40%
43) trans-1,3-Dichloropropene-	7.83	79	32584	3.98	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.60%
46) 2-Hexanone-d5	8.30	63	162865	45.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.84%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	85742	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	11.84	152	116109	5.30	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	13599	0.511 ug/L	99
5) Vinyl chloride	1.40	62	19998	0.733 ug/L	93
9) Trichlorofluoromethane	1.88	101	9191	0.302 ug/L	95
12) 1,1-Dichloroethene	2.28	96	107282	6.209 ug/L	79
13) Acetone	2.32	43	5386	1.861 ug/L	92
16) Methylene chloride	2.69	84	3028	0.154 ug/L	93
18) trans-1,2-Dichloroethene	2.97	96	2058	0.110 ug/L	84
19) 1,1-Dichloroethane	3.42	63	576405	15.643 ug/L	100
22) cis-1,2-Dichloroethene	4.20	96	482207	22.948 ug/L	94
25) Chloroform	4.65	83	12837	0.342 ug/L	96
27) 1,2-Dichloroethane	5.39	62	10458	0.505 ug/L #	92
29) 1,1,1-Trichloroethane	4.89	97	27424	0.880 ug/L	98
34) Trichloroethene	6.16	95	830029	37.461 ug/L	97
35) Methylcyclohexane	6.31	83	24459	0.666 ug/L #	18
37) 1,2-Dichloropropane	6.41	63	6258	0.283 ug/L	99
47) Tetrachloroethene	8.21	164	557587	30.619 ug/L	97
49) Dibromochloromethane	8.21	129	514297	30.516 ug/L #	11

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090819\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.10	112	32157	0.556	ug/L	98
59) 1,2,3-Trichloropropane	11.46	75	19474	1.535	ug/L #	86
62) 1,3-Dichlorobenzene	11.49	146	20551	0.517	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	20551	0.513	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	7041	0.193	ug/L	92

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

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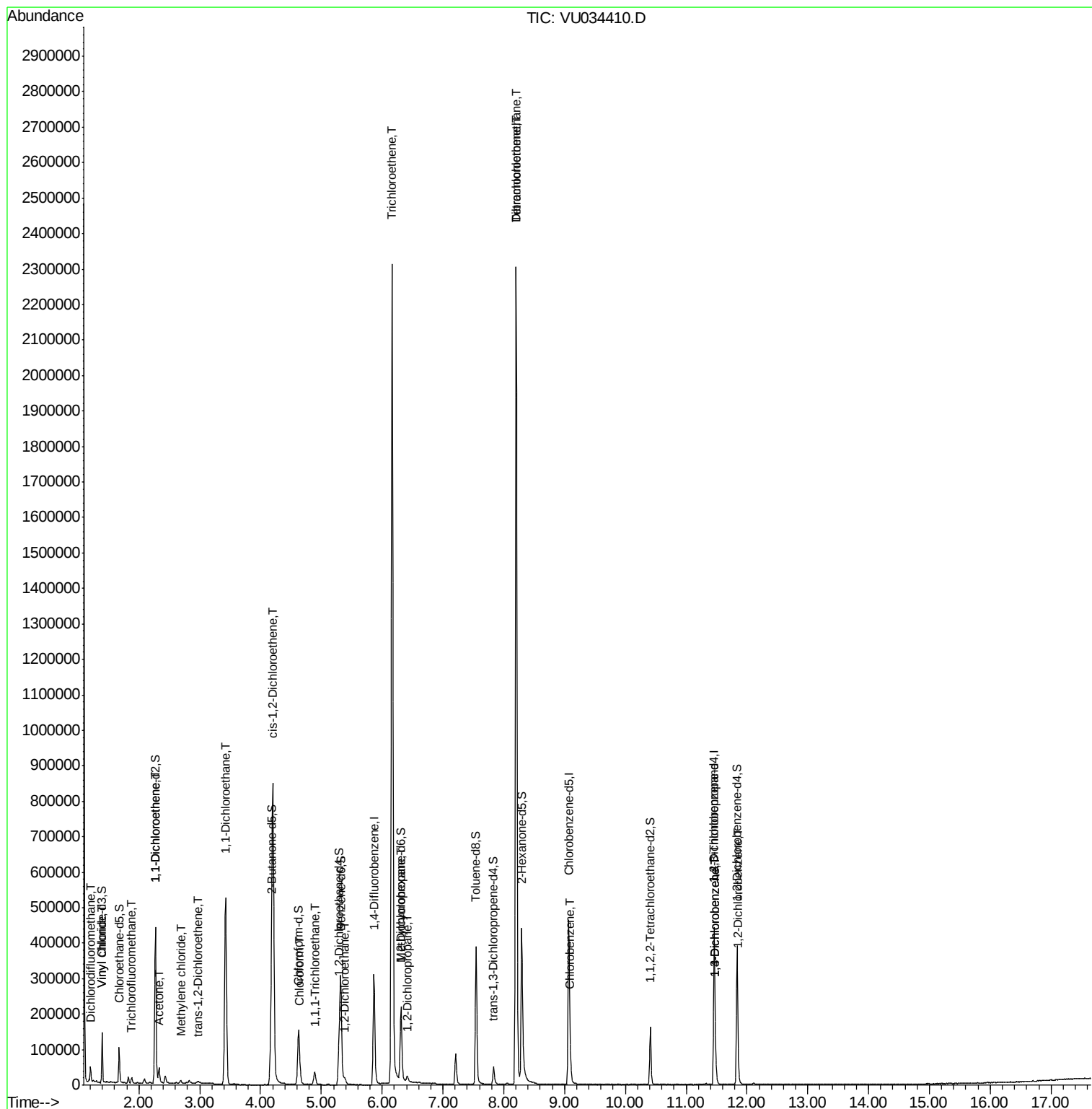
Quant Time: Sep 08 04:18:53 2019

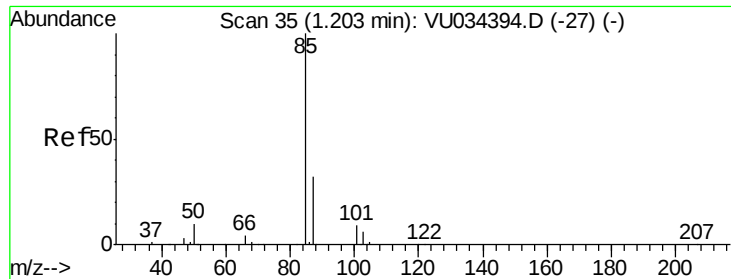
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR090119WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Sun Sep 08 03:44:03 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.511 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

Instrument :

MSVOA_U

ClientSampleId :

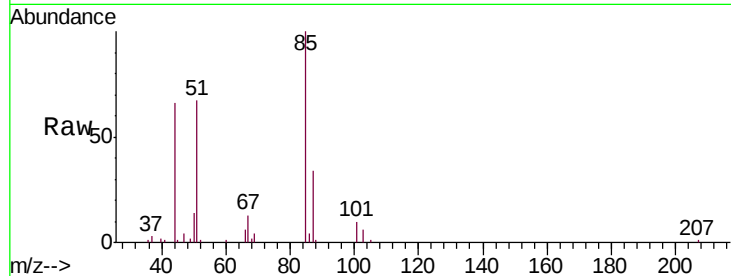
BFD97

Tgt Ion: 85 Resp: 13599

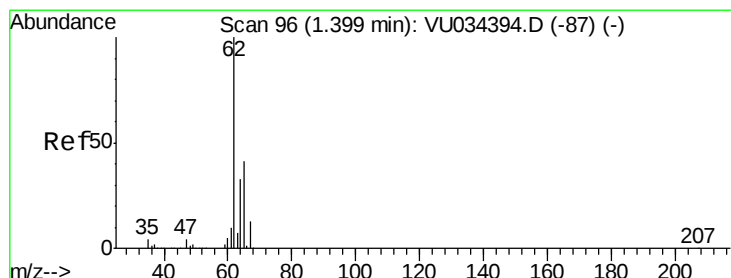
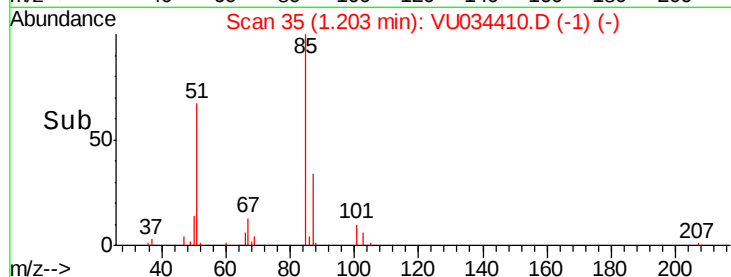
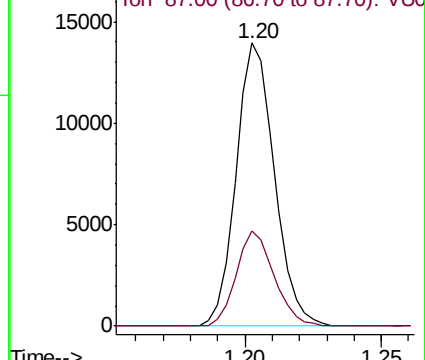
Ion Ratio Lower Upper

85 100

87 33.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU034410.D (-1) (-)



#5

Vinyl chloride

Concen: 0.733 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034410.D

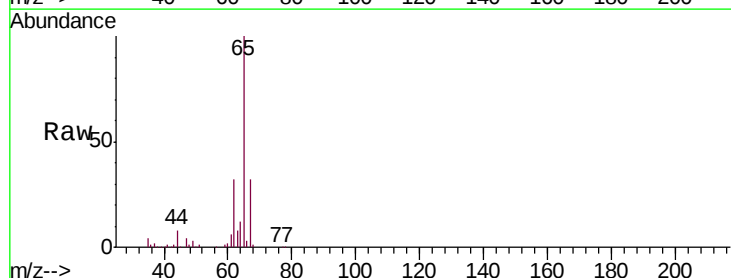
Acq: 08 Sep 2019 03:53

Tgt Ion: 62 Resp: 19998

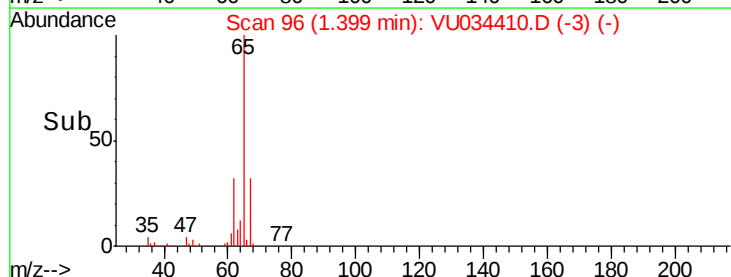
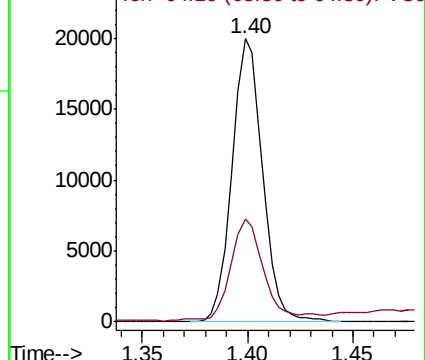
Ion Ratio Lower Upper

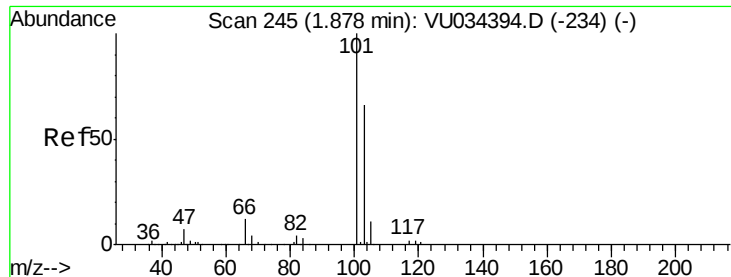
62 100

64 36.3 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU034410.D (-3) (-)



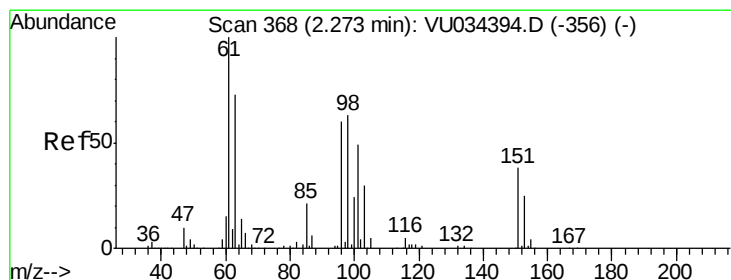
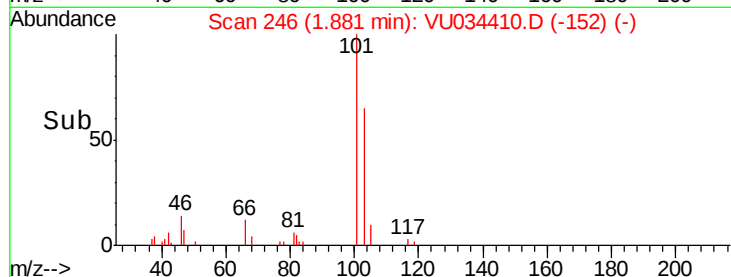
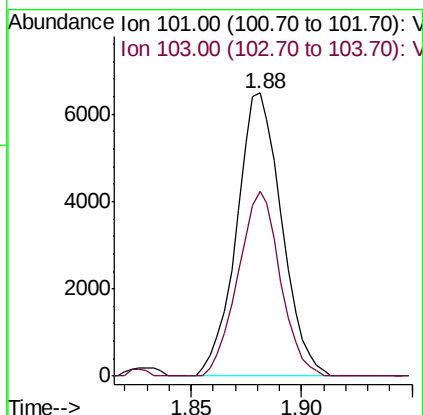
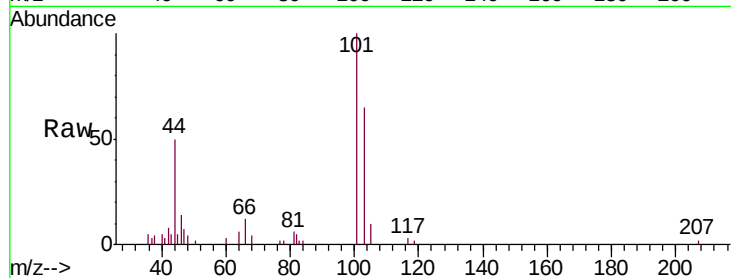


#9

Trichlorofluoromethane
 Concen: 0.302 ug/L
 RT: 1.88 min Scan# 246
 Delta R.T. 0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Instrument :
 MSVOA_U
 ClientSampleId :
 BFD97

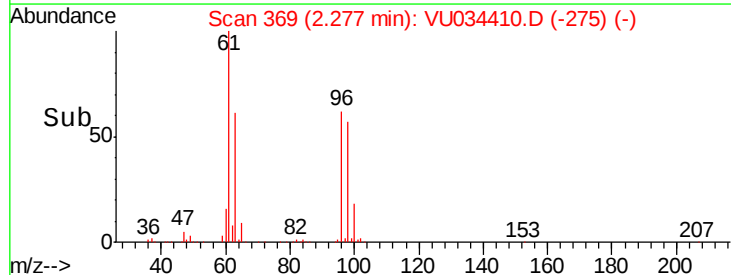
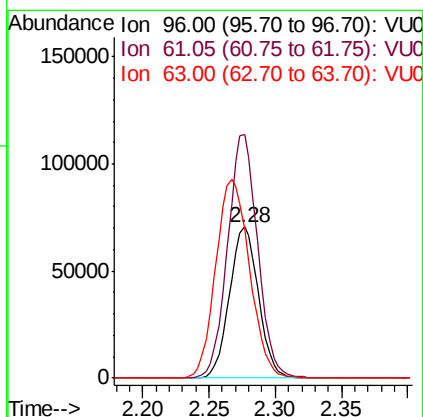
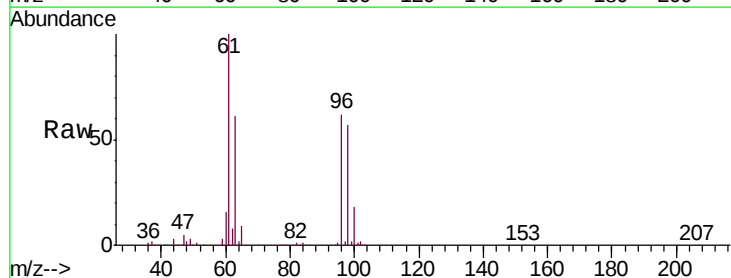
Tgt Ion: 101 Resp: 9191
 Ion Ratio Lower Upper
 101 100
 103 61.3 52.3 78.5

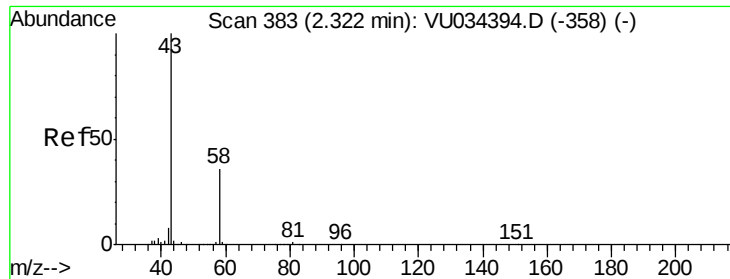


#12

1,1-Dichloroethene
 Concen: 6.209 ug/L
 RT: 2.28 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Tgt Ion: 96 Resp: 107282
 Ion Ratio Lower Upper
 96 100
 61 161.3 126.6 235.0
 63 98.6 94.5 175.5





#13

Acetone

Concen: 1.861 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.01 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

Instrument :

MSVOA_U

ClientSampleId :

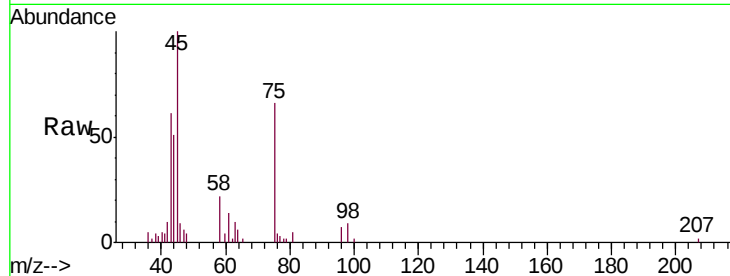
BFD97

Tgt Ion: 43 Resp: 5386

Ion Ratio Lower Upper

43 100

58 38.2 0.0 67.6

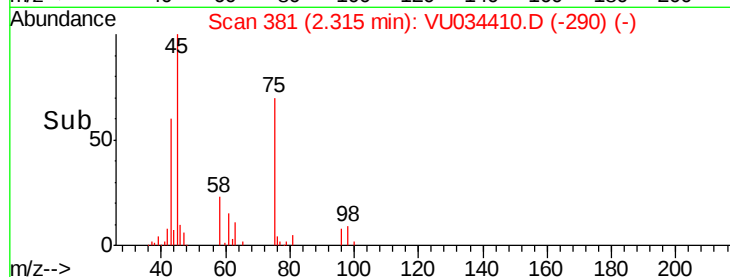


Abundance Ion 43.05 (42.75 to 43.75): VU034410.D (-358) (-)

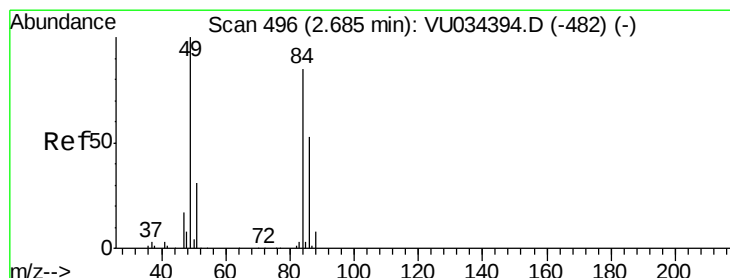
Ion 58.05 (57.75 to 58.75): VU034410.D (-358) (-)

2.32

2.35



Time-->



#16

Methylene chloride

Concen: 0.154 ug/L

RT: 2.69 min Scan# 498

Delta R.T. 0.01 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

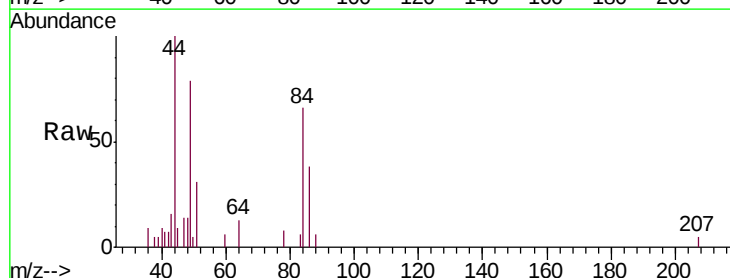
Tgt Ion: 84 Resp: 3028

Ion Ratio Lower Upper

84 100

86 57.1 44.4 82.5

49 120.5 90.2 167.4



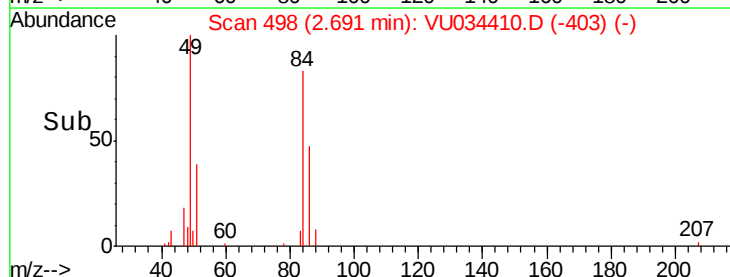
Abundance Ion 84.05 (83.75 to 84.75): VU034410.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU034410.D (-482) (-)

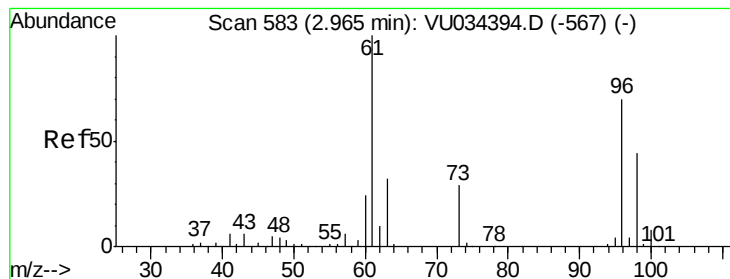
Ion 49.10 (48.80 to 49.80): VU034410.D (-482) (-)

2.69

2.70



Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.110 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

Instrument :

MSVOA_U

ClientSampleId :

BFD97

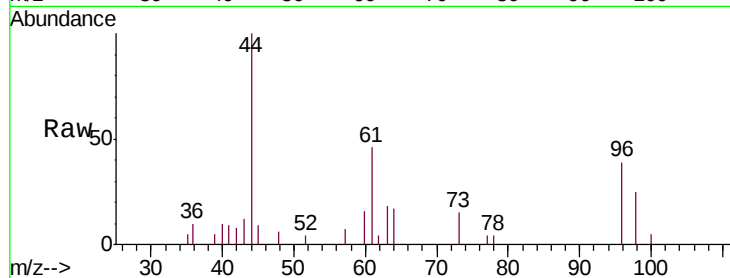
Tgt Ion: 96 Resp: 2058

Ion Ratio Lower Upper

96 100

61 118.8 103.5 192.3

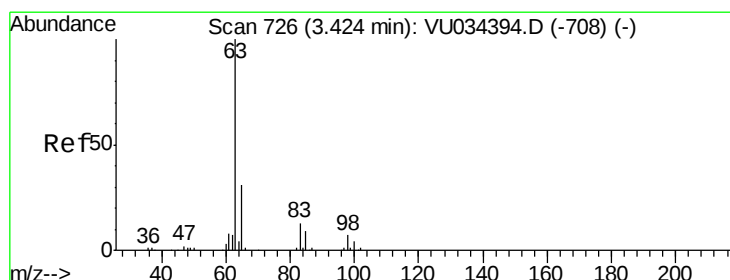
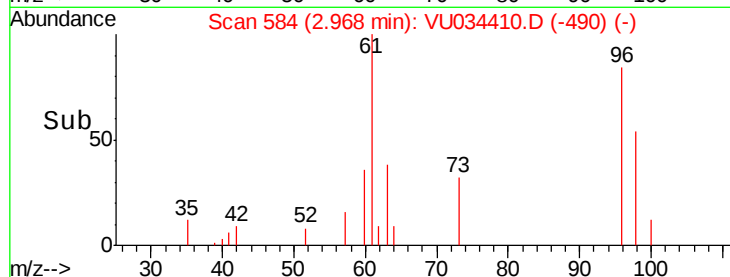
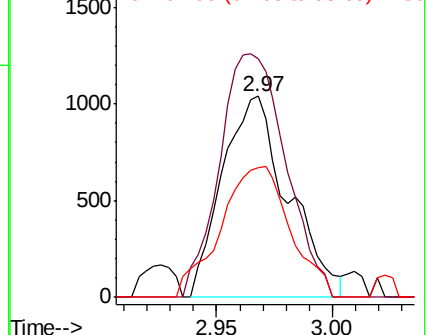
98 64.6 44.9 83.3



Abundance Ion 96.00 (95.70 to 96.70): VU034410.D (-490) (-)

Ion 61.05 (60.75 to 61.75): VU034410.D (-490) (-)

Ion 97.95 (97.65 to 98.65): VU034410.D (-490) (-)



#19

1,1-Dichloroethane

Concen: 15.643 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

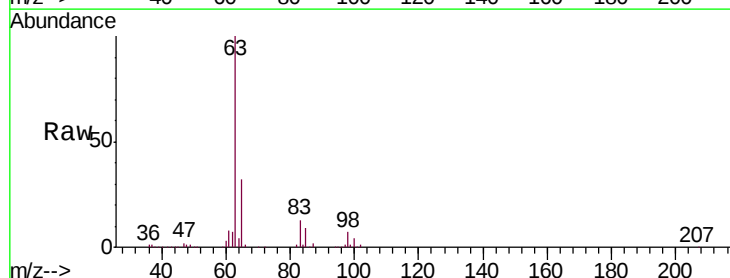
Tgt Ion: 63 Resp: 576405

Ion Ratio Lower Upper

63 100

65 32.2 22.5 41.9

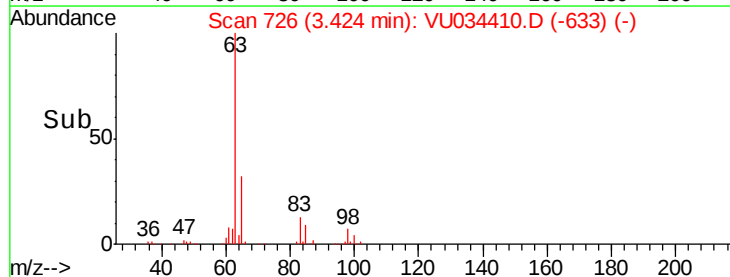
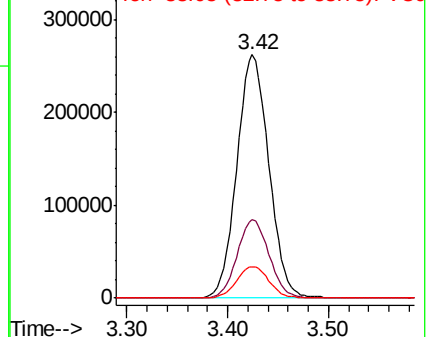
83 12.9 9.1 16.9

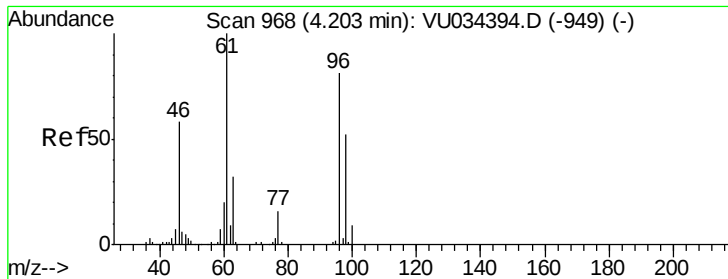


Abundance Ion 63.10 (62.80 to 63.80): VU034410.D (-633) (-)

Ion 65.10 (64.80 to 65.80): VU034410.D (-633) (-)

Ion 83.05 (82.75 to 83.75): VU034410.D (-633) (-)



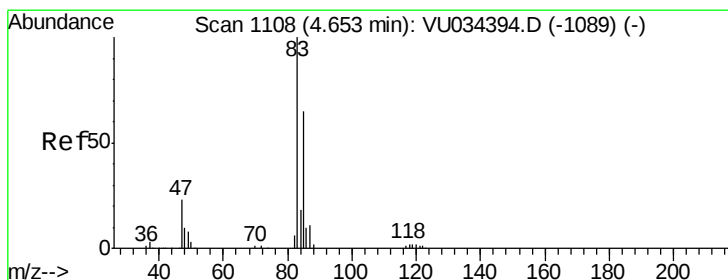
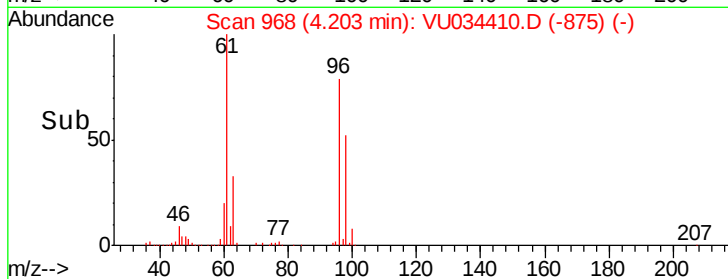
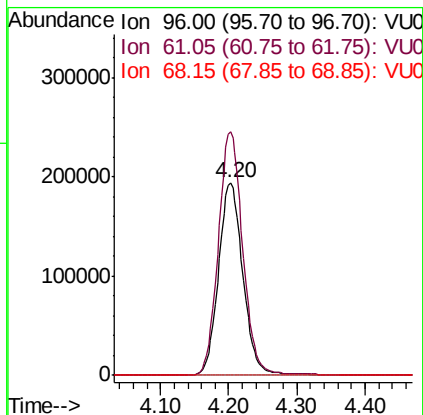
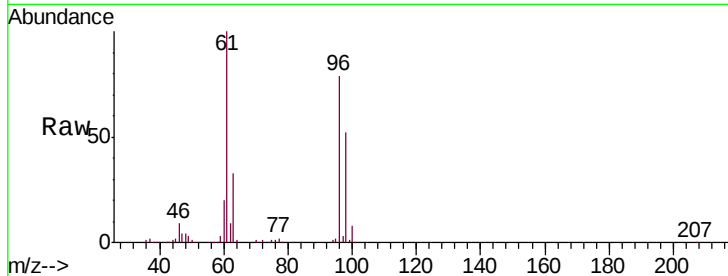


#22

cis-1,2-Dichloroethene
 Concen: 22.948 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Instrument :
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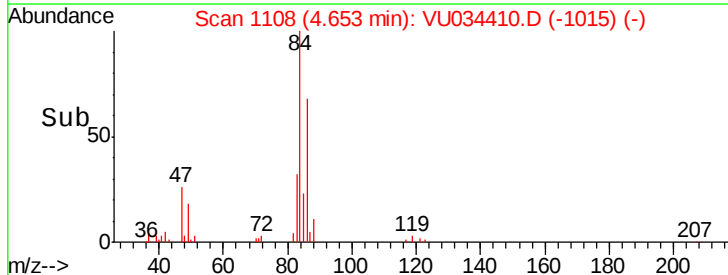
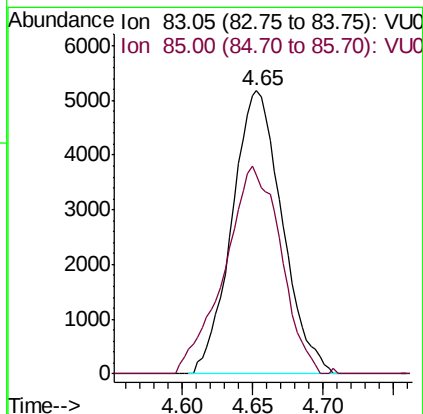
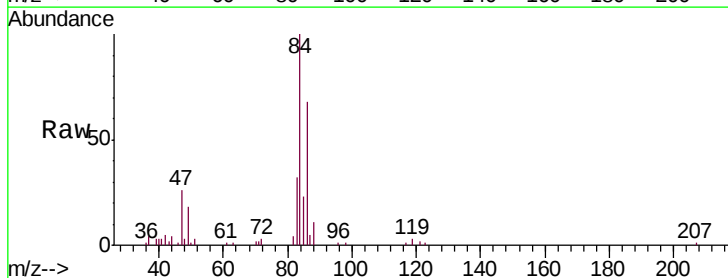
Tgt Ion: 96 Resp: 482207
 Ion Ratio Lower Upper
 96 100
 61 126.3 93.6 173.8
 68 0.0 0.0 0.0

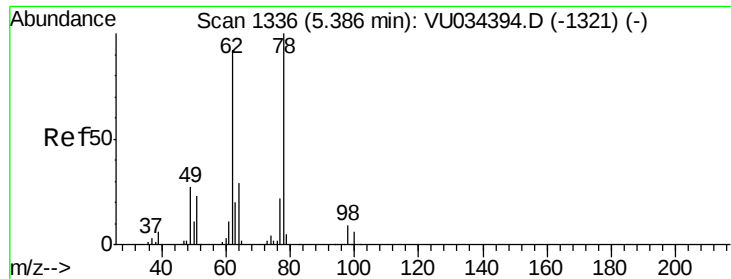


#25

Chloroform
 Concen: 0.342 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Tgt Ion: 83 Resp: 12837
 Ion Ratio Lower Upper
 83 100
 85 70.3 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.505 ug/L

RT: 5.39 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

Instrument :

MSVOA_U

ClientSampleId :

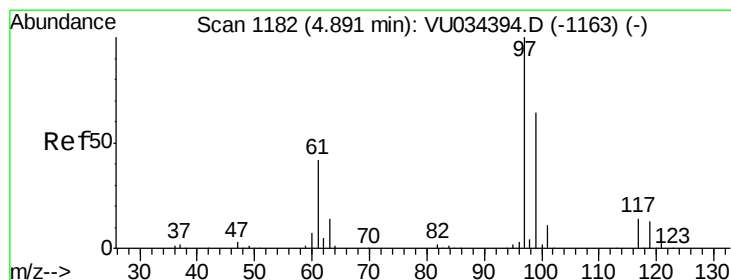
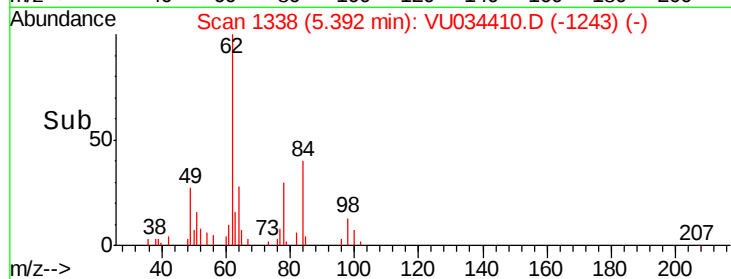
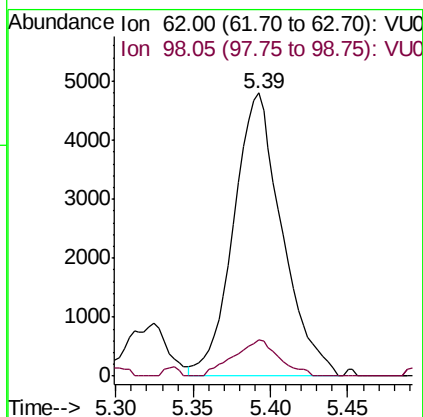
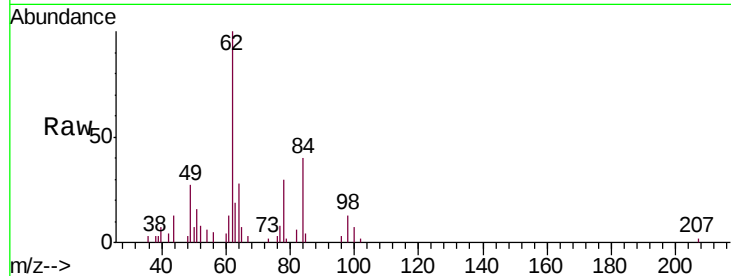
BFD97

Tgt Ion: 62 Resp: 10458

Ion Ratio Lower Upper

62 100

98 12.8 7.8 11.8#



#29

1,1,1-Trichloroethane

Concen: 0.880 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

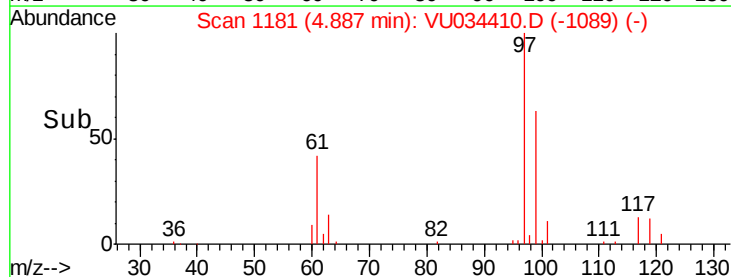
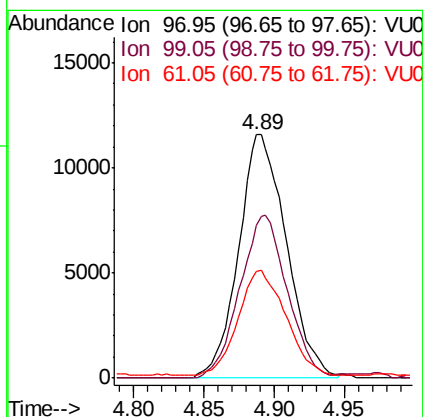
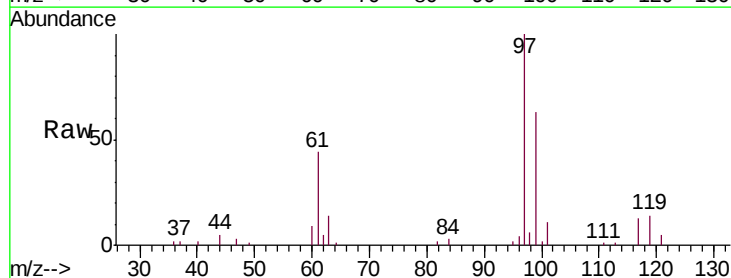
Tgt Ion: 97 Resp: 27424

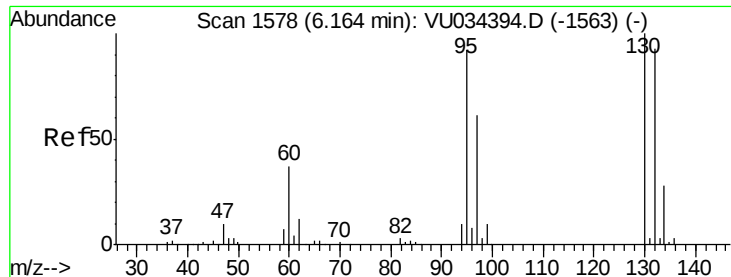
Ion Ratio Lower Upper

97 100

99 66.4 52.1 78.1

61 43.2 35.4 53.2

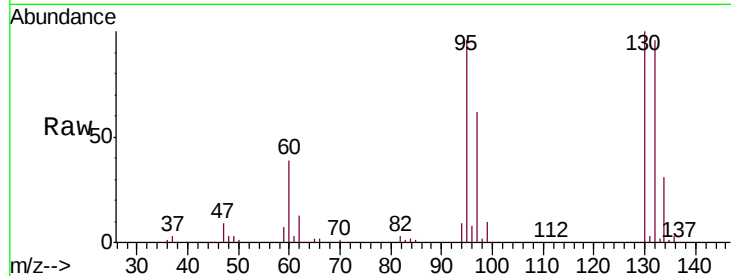




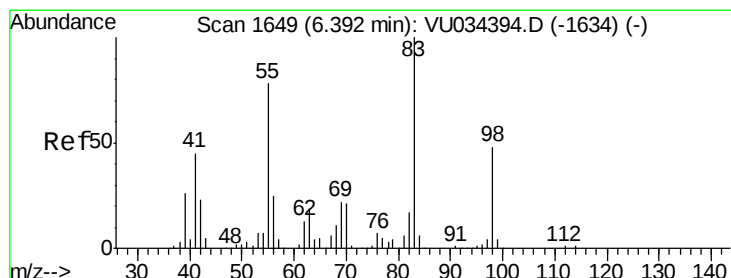
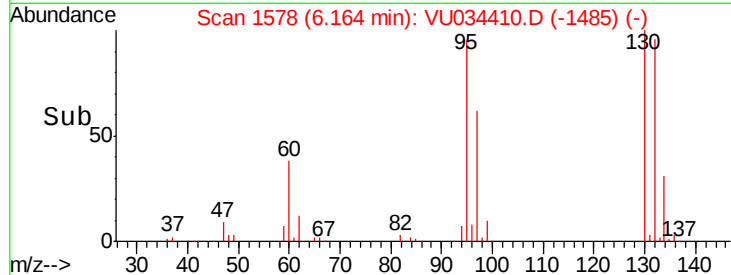
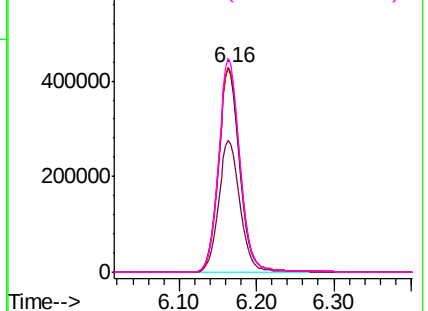
#34
 Trichloroethene
 Concen: 37.461 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Instrument :
 MSVOA_U
 ClientSampleId :
 BFD97

Tgt Ion: 95 Resp: 830029
 Ion Ratio Lower Upper
 95 100
 97 64.6 43.3 80.5
 132 100.0 68.6 127.4
 130 104.6 70.5 130.9

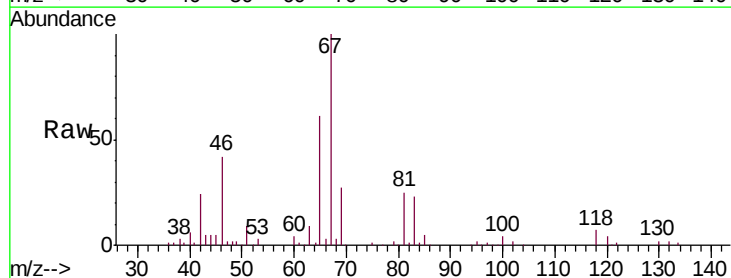


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

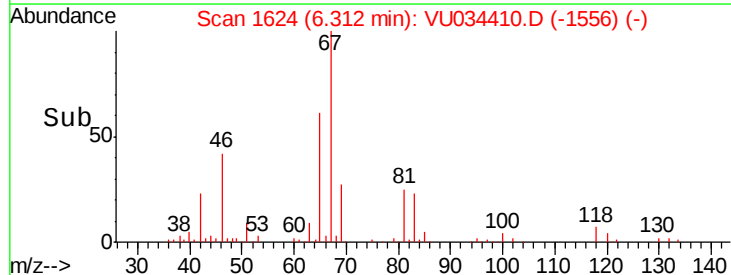
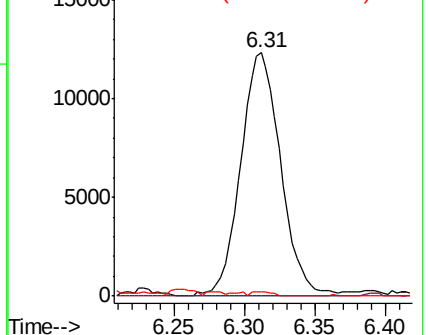


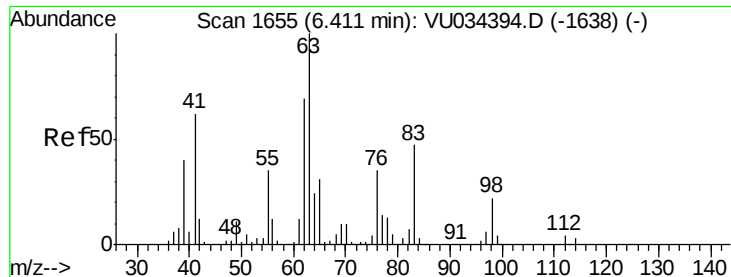
#35
 Methylcyclohexane
 Concen: 0.666 ug/L
 RT: 6.31 min Scan# 1624
 Delta R.T. -0.08 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Tgt Ion: 83 Resp: 24459
 Ion Ratio Lower Upper
 83 100
 55 0.4 62.6 94.0#
 98 0.0 36.2 54.2#



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

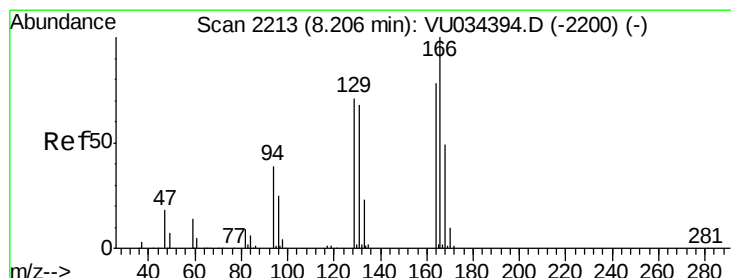
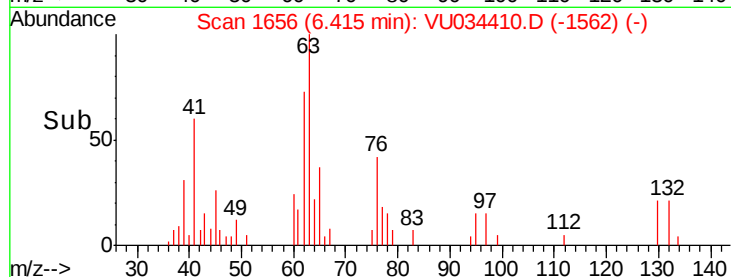
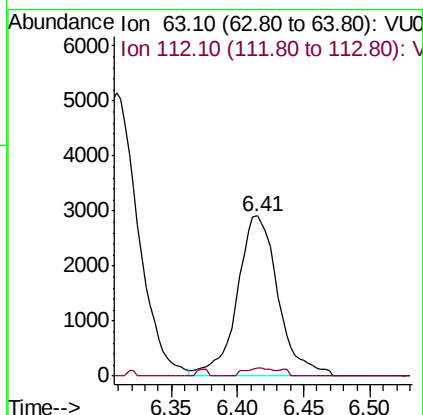
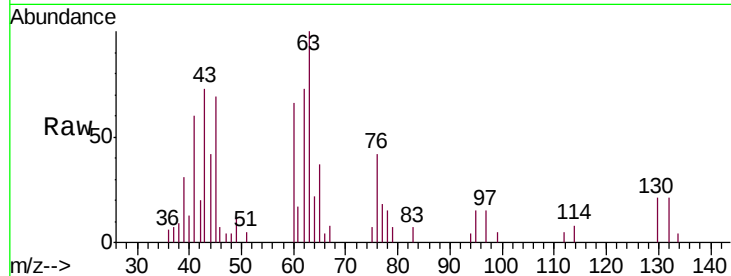




#37
 1,2-Dichloropropane
 Concen: 0.283 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

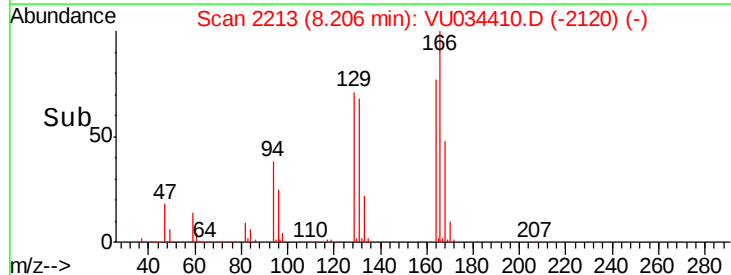
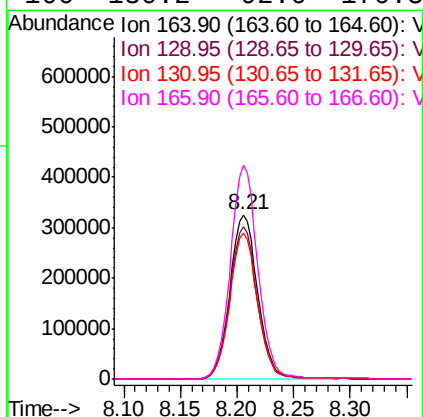
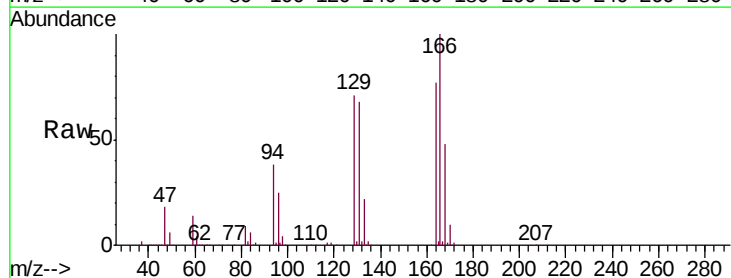
Instrument :
 MSVOA_U
 ClientSampleId :
 BFD97

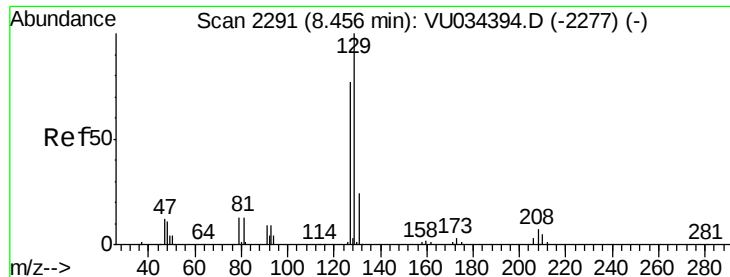
Tgt Ion: 63 Resp: 6258
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.3 4.9



#47
 Tetrachloroethene
 Concen: 30.619 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Tgt Ion: 164 Resp: 557587
 Ion Ratio Lower Upper
 164 100
 129 92.6 68.0 126.2
 131 89.2 64.6 120.0
 166 130.2 92.0 170.8





#49

Dibromochloromethane

Concen: 30.516 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.25 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

Instrument :

MSVOA_U

ClientSampleId :

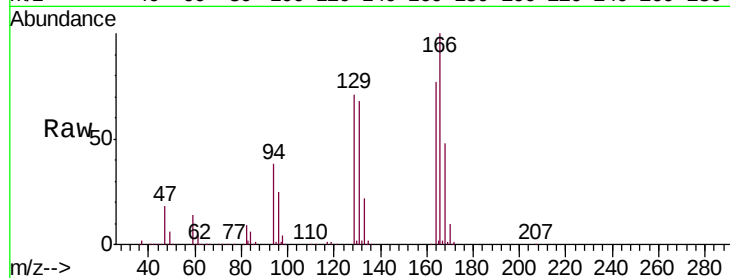
BFD97

Tgt Ion:129 Resp: 514297

Ion Ratio Lower Upper

129 100

127 0.0 54.2 100.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.21

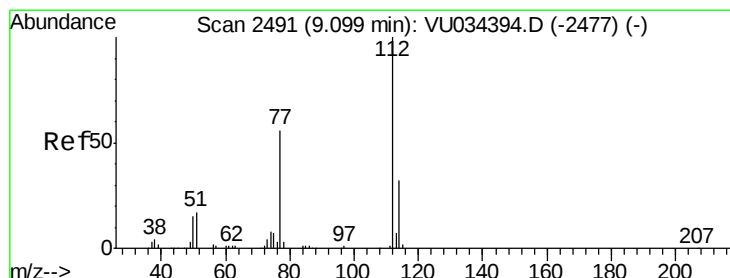
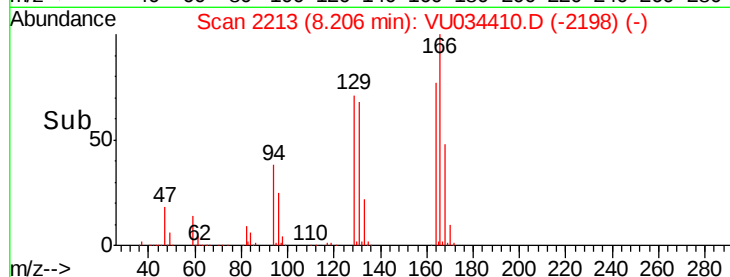
300000

200000

100000

0

Time--> 8.10 8.20 8.30



#51

Chlorobenzene

Concen: 0.556 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

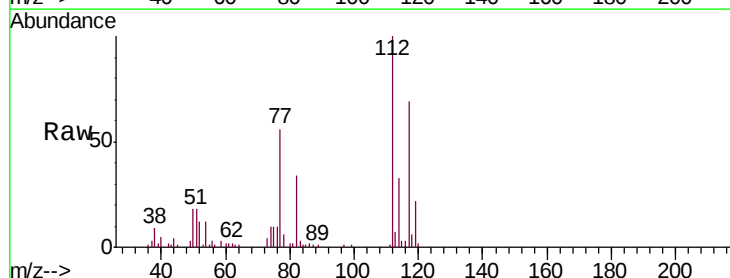
Tgt Ion:112 Resp: 32157

Ion Ratio Lower Upper

112 100

114 33.1 22.6 42.0

77 55.8 46.3 69.5



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): VU0

9.10

20000

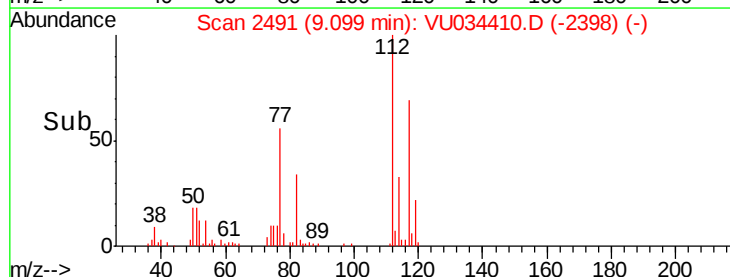
15000

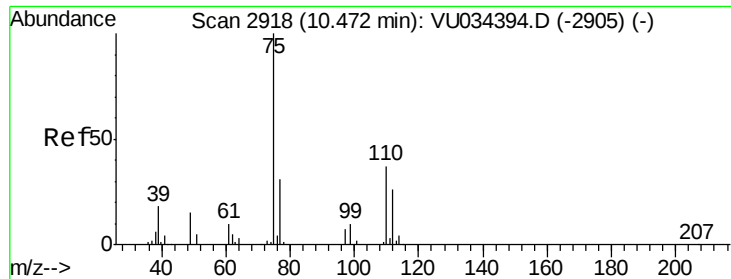
10000

5000

0

Time--> 9.05 9.10 9.15 9.20





#59

1,2,3-Trichloropropane

Concen: 1.535 ug/L

RT: 11.46 min Scan# 3226

Delta R.T. 0.99 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

Instrument :

MSVOA_U

ClientSampleId :

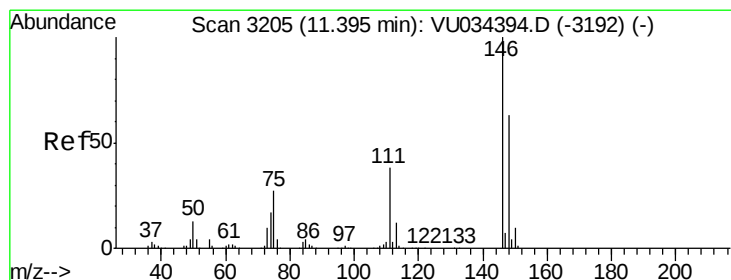
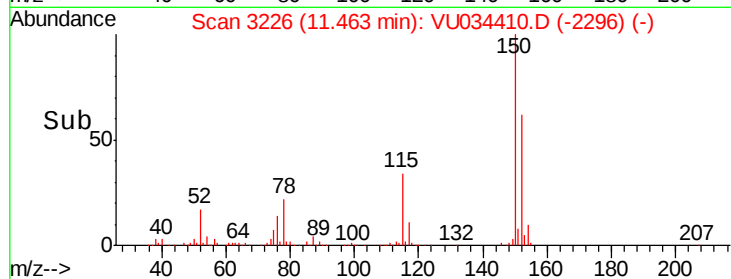
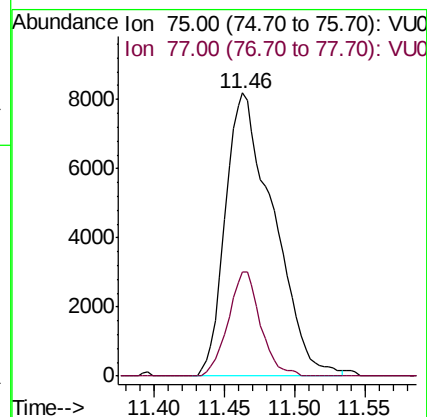
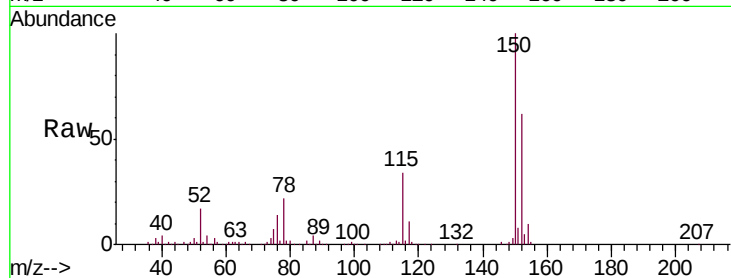
BFD97

Tgt Ion: 75 Resp: 19474

Ion Ratio Lower Upper

75 100

77 24.7 26.0 39.0#



#62

1,3-Dichlorobenzene

Concen: 0.517 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.09 min

Lab File: VU034410.D

Acq: 08 Sep 2019 03:53

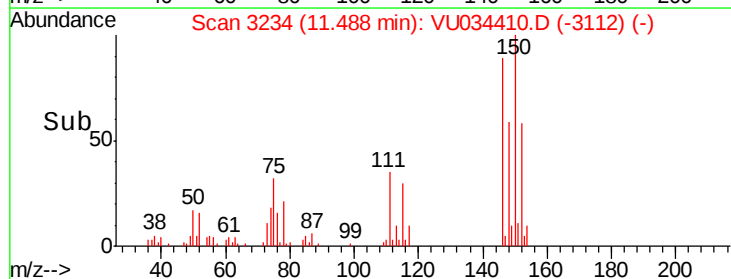
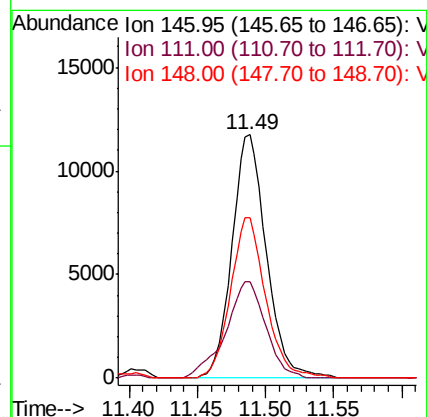
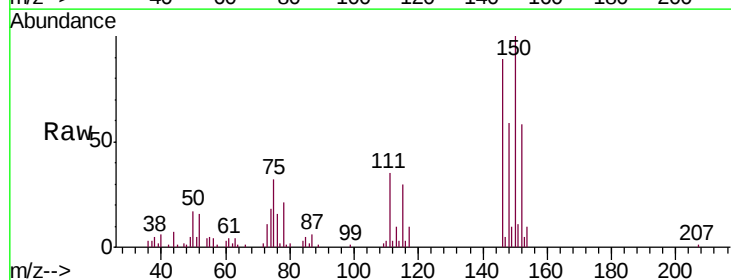
Tgt Ion: 146 Resp: 20551

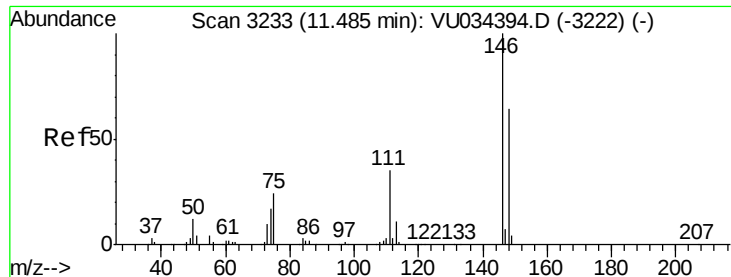
Ion Ratio Lower Upper

146 100

111 39.5 27.6 51.4

148 66.1 44.9 83.5

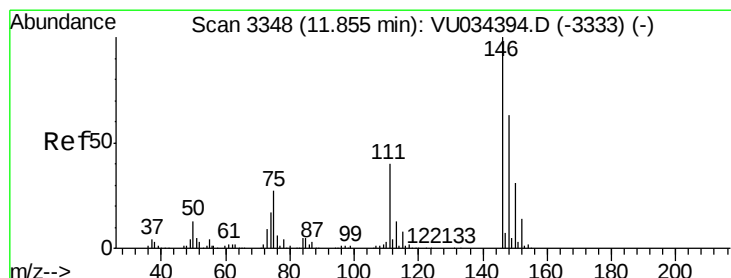
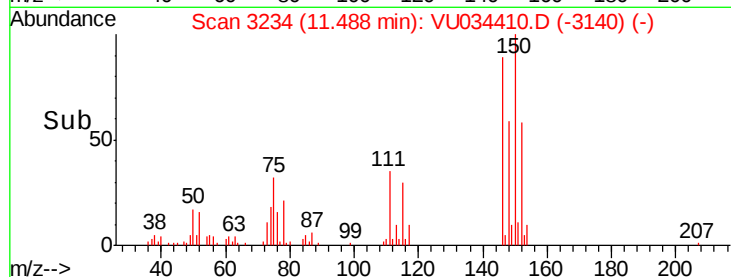
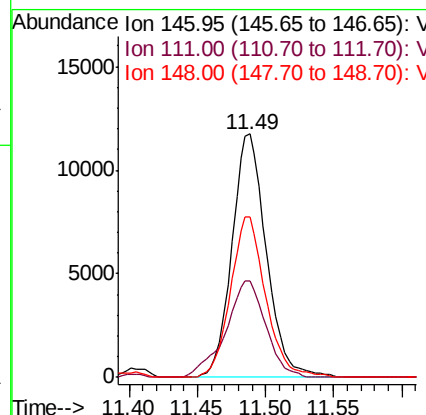
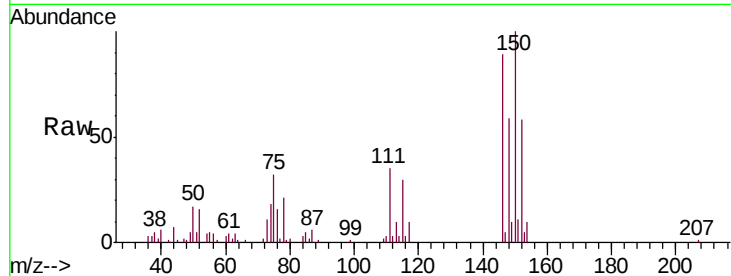




#63
 1,4-Dichlorobenzene
 Concen: 0.513 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Instrument :
 MSVOA_U
 ClientSampleId :
 BFD97

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	26.5	49.3
148	66.1	44.0	81.8



#65
 1,2-Dichlorobenzene
 Concen: 0.193 ug/L
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU034410.D
 Acq: 08 Sep 2019 03:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.6	32.8	49.2
148	66.3	49.4	74.0

