

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034332.D
 Acq On : 06 Sep 2019 15:48
 Operator : JC/SP
 Sample : K4722-15DL 5X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 17:11:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	294811	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	435096	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	425650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	259142	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	213841	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
35) Dibromofluoromethane	4.86	113	187893	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
50) Toluene-d8	7.55	98	720426	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
62) 4-Bromofluorobenzene	10.29	95	258783	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	

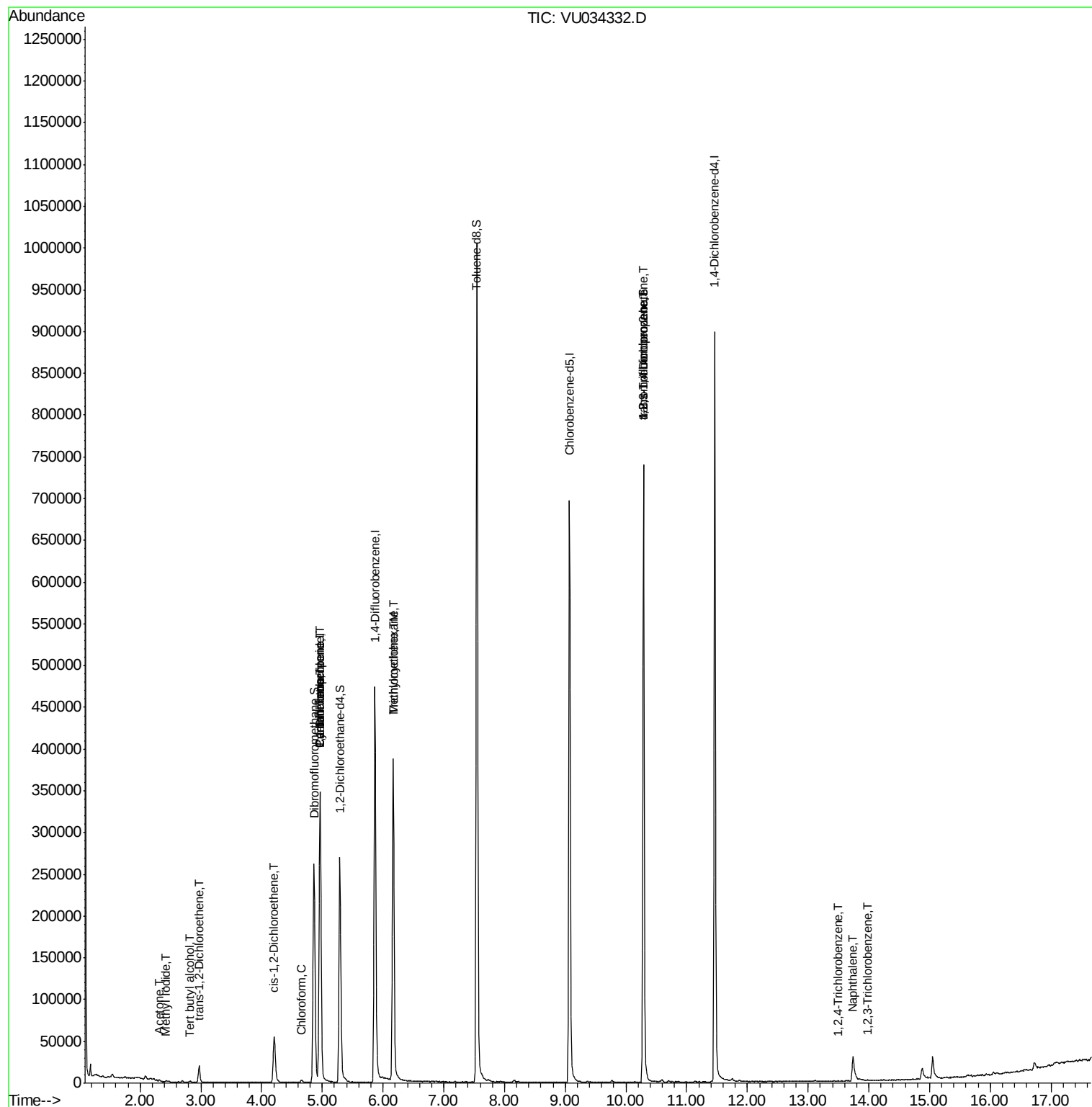
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	756	Below Cal	#	78
6) Chloroethane	1.67	64	51	Below Cal	#	43
10) Methyl Iodide	2.41	142	39	3.858	ug/l #	43
11) Tert butyl alcohol	2.82	59	764	0.811	ug/l #	73
16) Acetone	2.31	43	1569	0.680	ug/l	97
20) Methylene Chloride	2.69	84	661	Below Cal	#	86
21) trans-1,2-Dichloroethene	2.97	96	8400	2.485	ug/l	94
27) cis-1,2-Dichloroethene	4.21	96	34723	8.458	ug/l	85
30) Chloroform	4.66	83	2956	0.407	ug/l	89
31) Cyclohexane	4.96	56	4585	0.878	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19427	4.117	ug/l #	49
38) Carbon Tetrachloride	4.96	117	26154	5.191	ug/l #	15
39) Methylcyclohexane	6.17	83	1424	0.282	ug/l #	1
44) Trichloroethene	6.17	130	145444	34.520	ug/l	98
76) 1,2,3-Trichloropropane	10.29	75	119951	21.205	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	119951	71.313	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	90	3.465	ug/l #	1
95) Naphthalene	13.74	128	45175	6.374	ug/l	96
96) 1,2,3-Trichlorobenzene	13.98	180	148	2.662	ug/l #	36

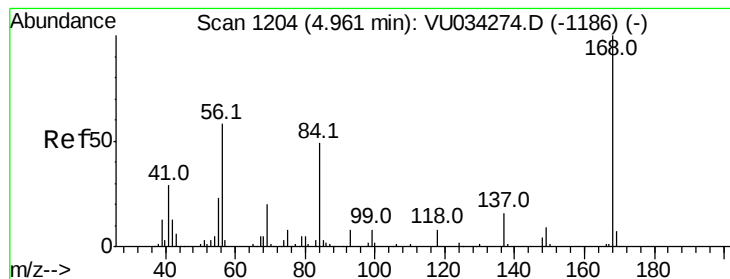
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

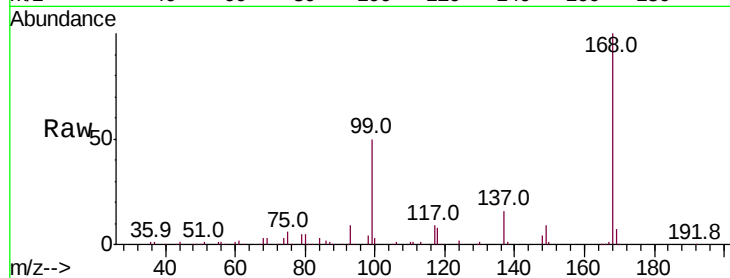
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 294811

Ion Ratio Lower Upper

168 100

99 50.2 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

150000

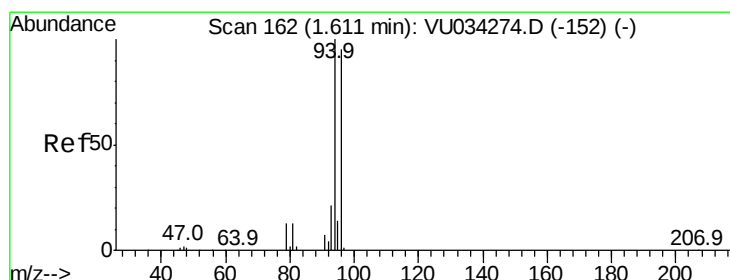
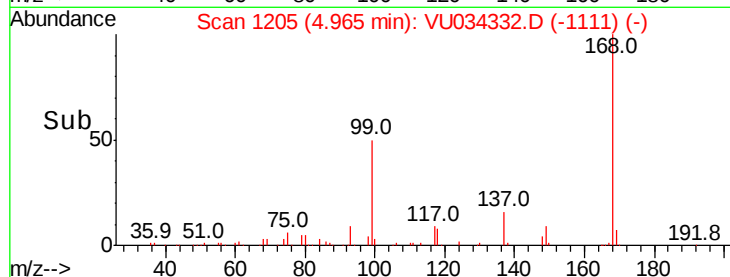
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034332.D

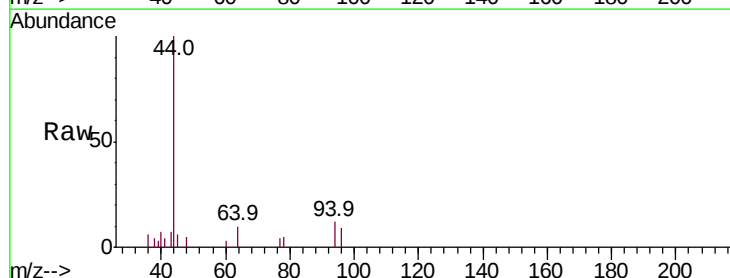
Acq: 06 Sep 2019 15:48

Tgt Ion: 94 Resp: 756

Ion Ratio Lower Upper

94 100

96 73.3 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

500

400

300

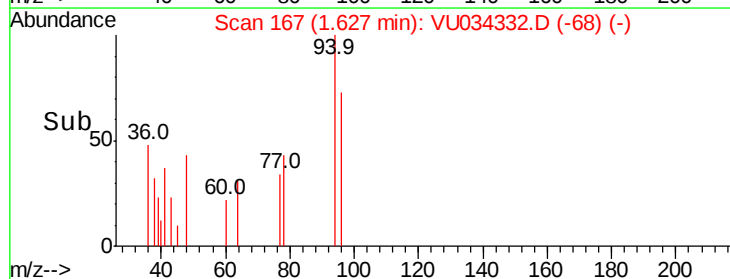
200

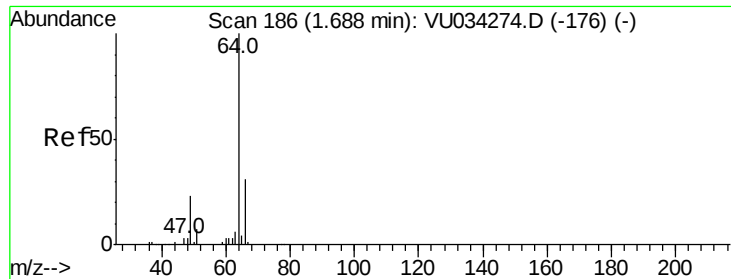
100

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :

MSVOA_U

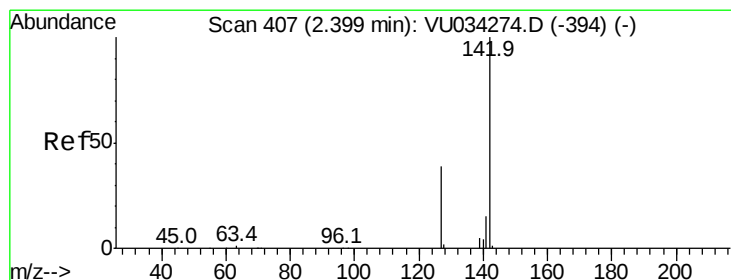
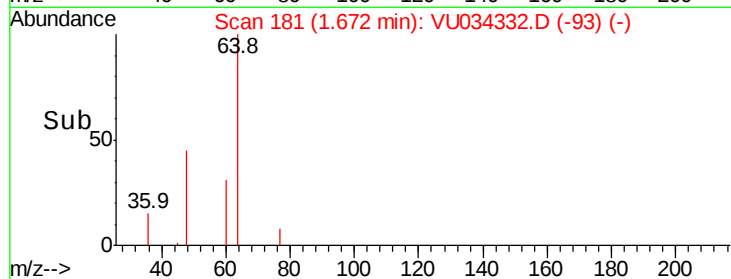
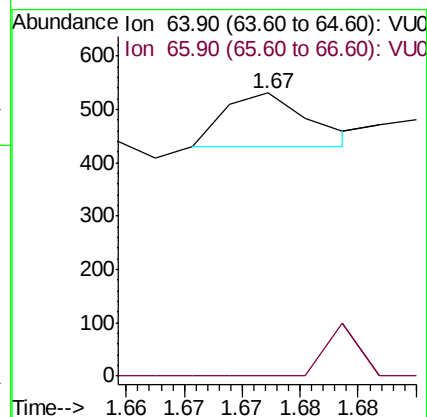
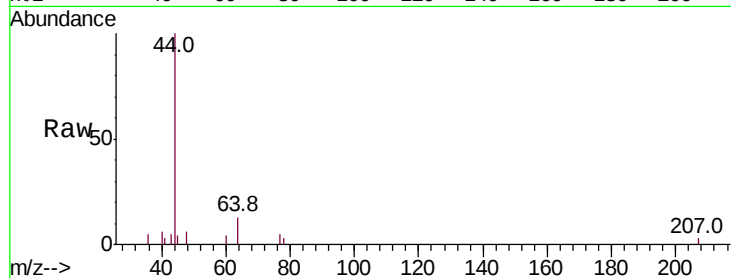
ClientSampleId :

Tot Ion: 64 Resp: 51

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.858 ug/l

RT: 2.41 min Scan# 412

Delta R.T. 0.02 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

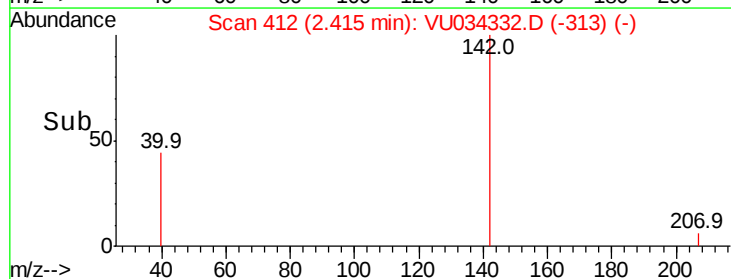
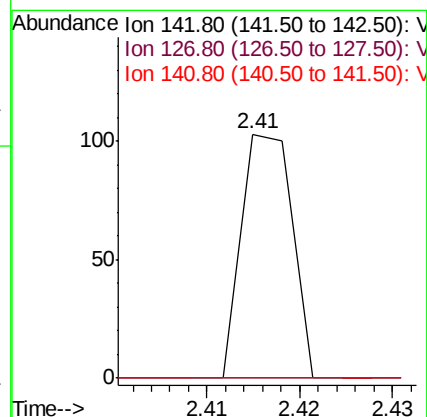
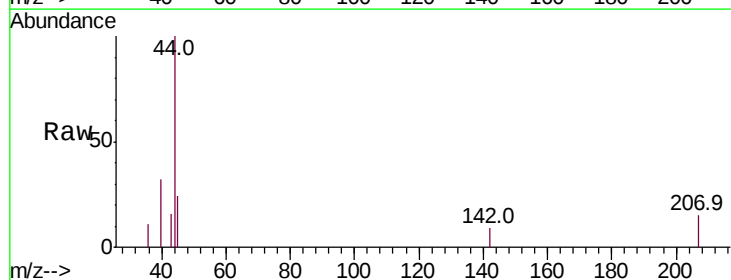
Tgt Ion: 142 Resp: 39

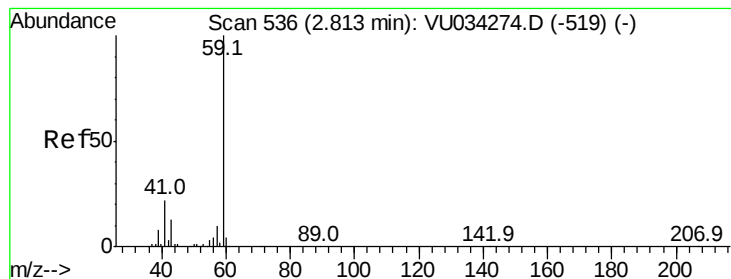
Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



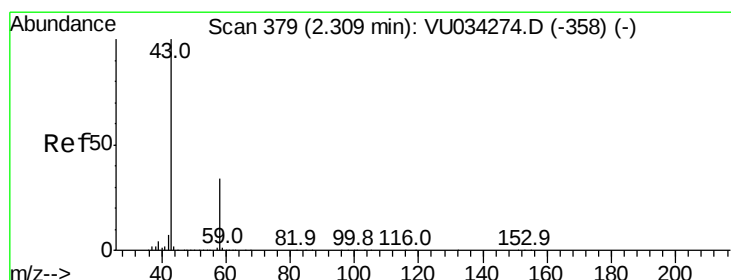
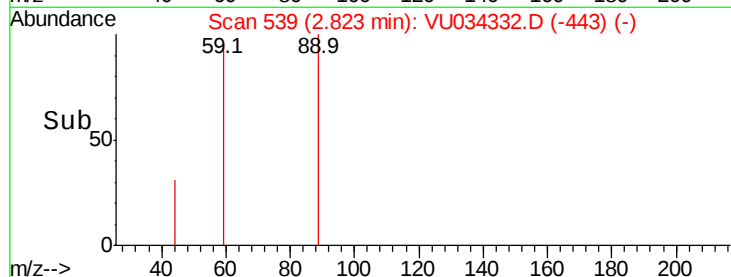
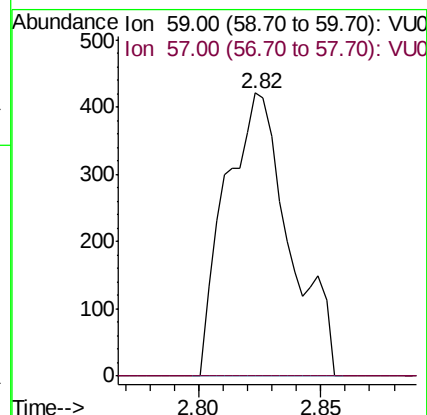
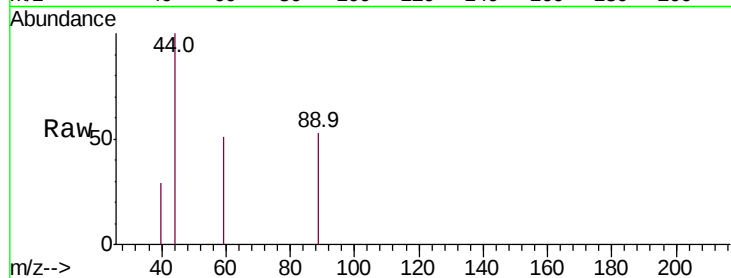


#11

Tert butyl alcohol
 Concen: 0.811 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VU034332.D
 Acq: 06 Sep 2019 15:48

Instrument :
 MSVOA_U
 ClientSampleId :

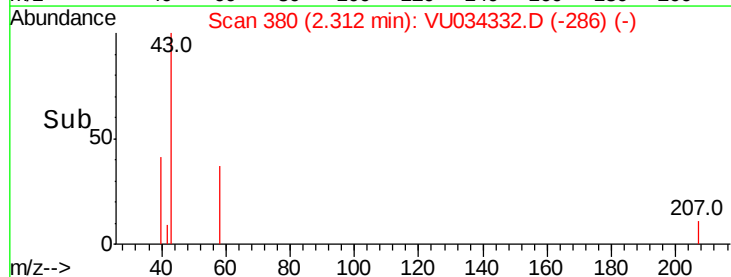
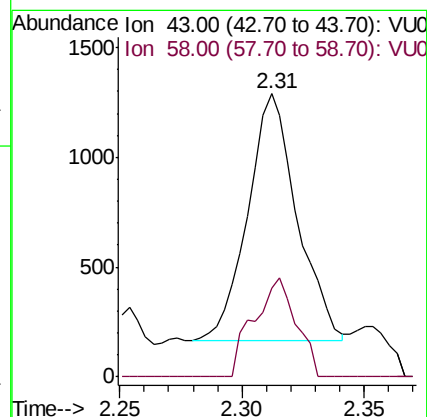
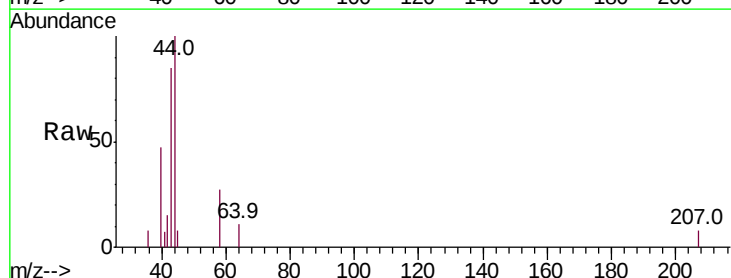
Tot Ion: 59 Resp: 764
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

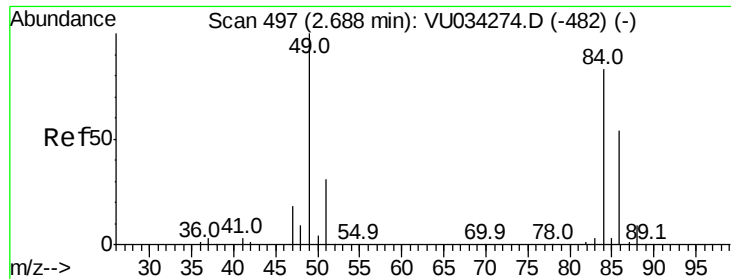


#16

Acetone
 Concen: 0.680 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034332.D
 Acq: 06 Sep 2019 15:48

Tgt Ion: 43 Resp: 1569
 Ion Ratio Lower Upper
 43 100
 58 36.0 27.6 41.4





#20

Methylene Chloride

Concen: Below Cal

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 84 Resp: 661

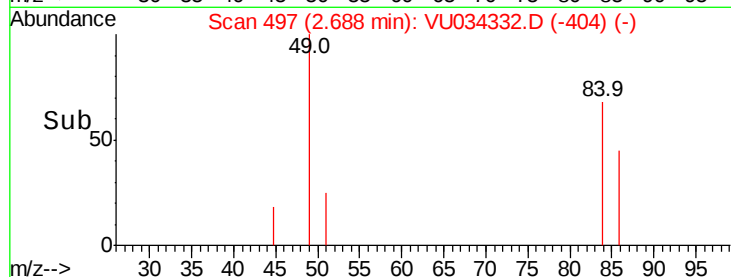
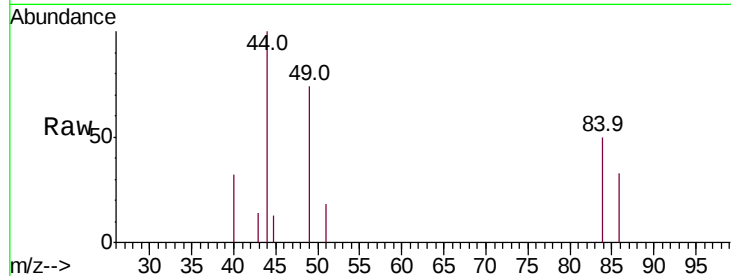
Ion Ratio Lower Upper

84 100

49 147.0 96.0 144.0#

51 36.4 30.0 45.0

86 66.6 51.4 77.0

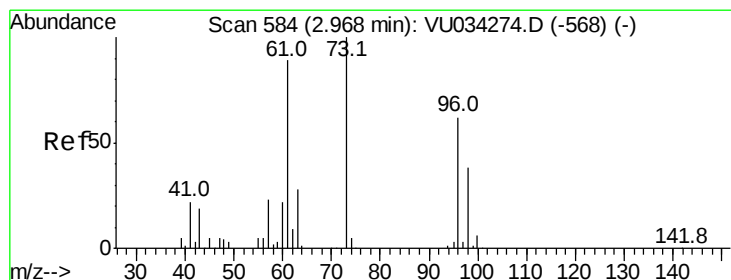
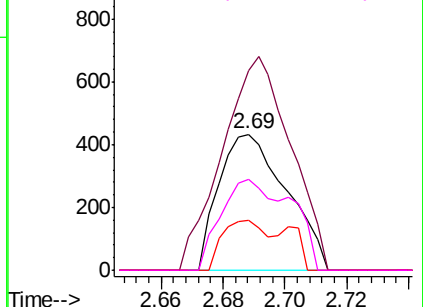


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#21

trans-1,2-Dichloroethene

Concen: 2.485 ug/l

RT: 2.97 min Scan# 586

Delta R.T. 0.01 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

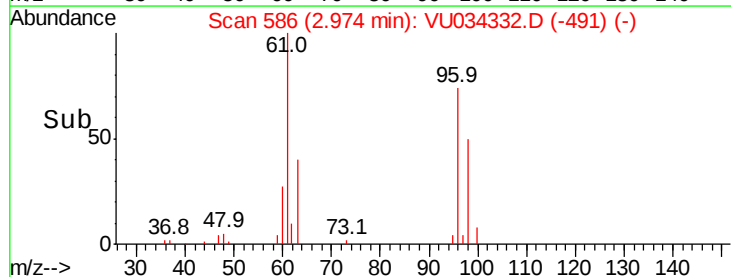
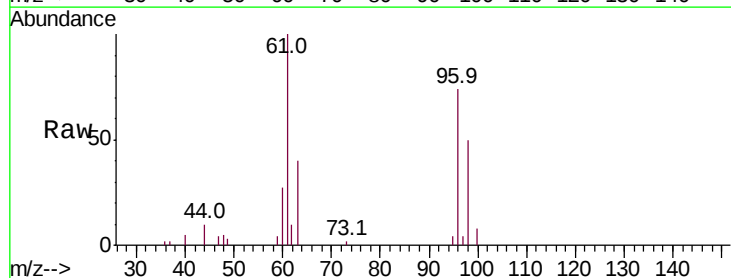
Tgt Ion: 96 Resp: 8400

Ion Ratio Lower Upper

96 100

61 135.7 114.8 172.2

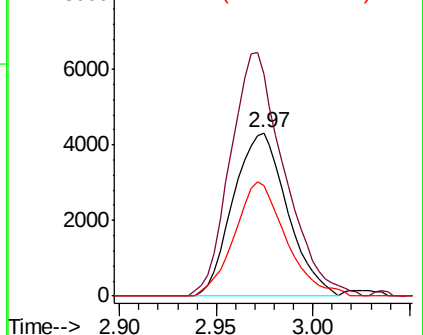
98 67.6 49.8 74.8

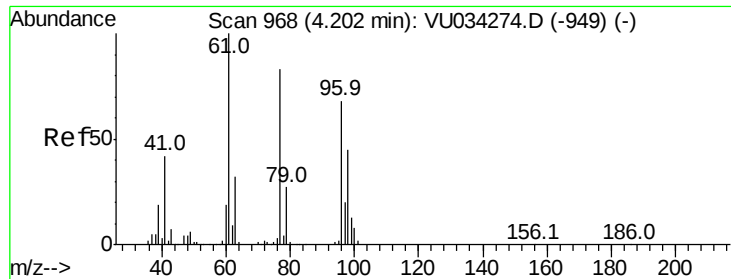


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 8.458 ug/l

RT: 4.21 min Scan# 970

Delta R.T. 0.01 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :
MSVOA_U
ClientSampleId :

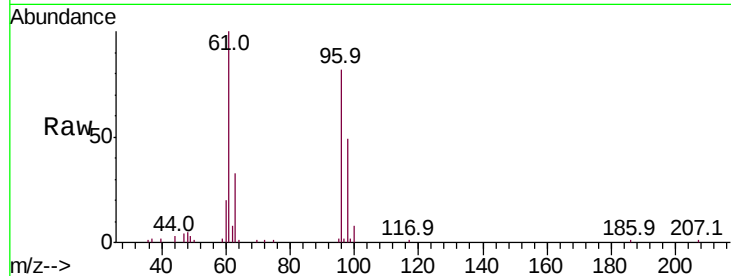
Tot Ion: 96 Resp: 34723

Ion Ratio Lower Upper

96 100

61 123.6 0.0 297.4

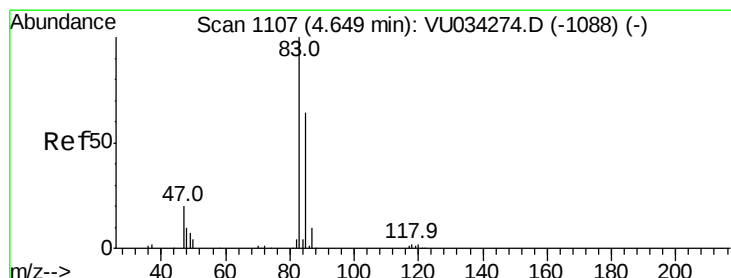
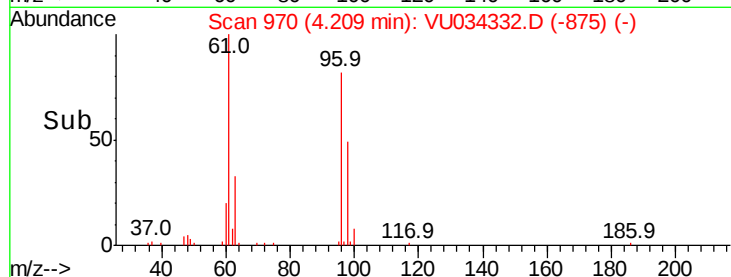
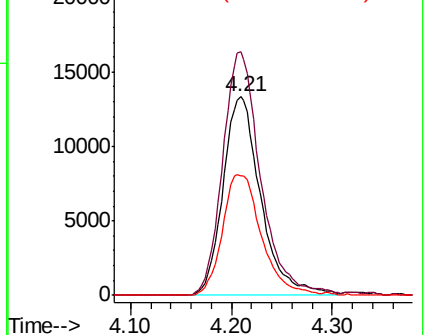
98 62.7 0.0 130.0



Abundance Ion 95.90 (95.60 to 96.60): VU034274.D (-949) (-)

Ion 60.90 (60.60 to 61.60): VU034274.D (-949) (-)

Ion 97.90 (97.60 to 98.60): VU034274.D (-949) (-)



#30

Chloroform

Concen: 0.407 ug/l

RT: 4.66 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VU034332.D

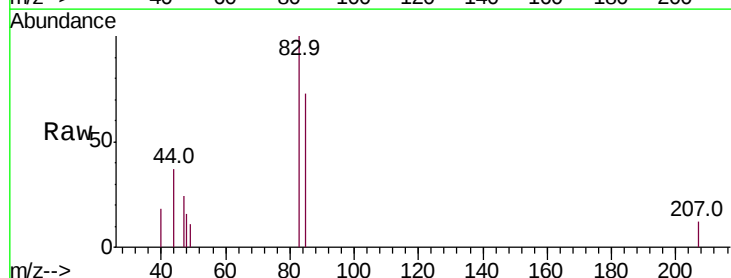
Acq: 06 Sep 2019 15:48

Tgt Ion: 83 Resp: 2956

Ion Ratio Lower Upper

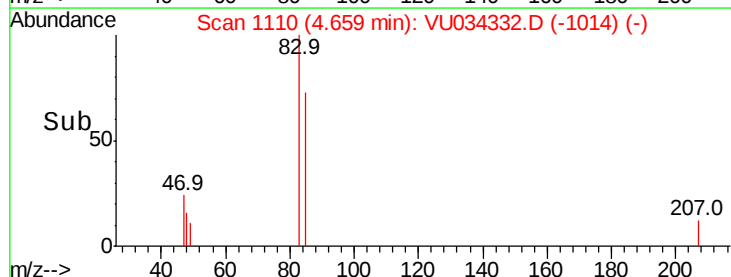
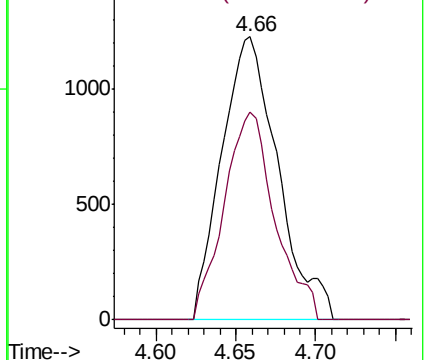
83 100

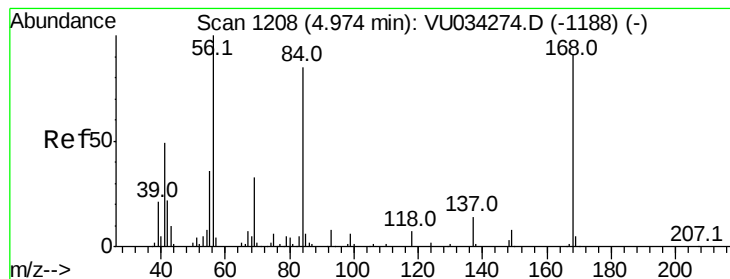
85 73.2 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VU034274.D (-1088) (-)

Ion 84.90 (84.60 to 85.60): VU034274.D (-1088) (-)





#31

Cyclohexane

Concen: 0.878 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :
MSVOA_U
ClientSampled :

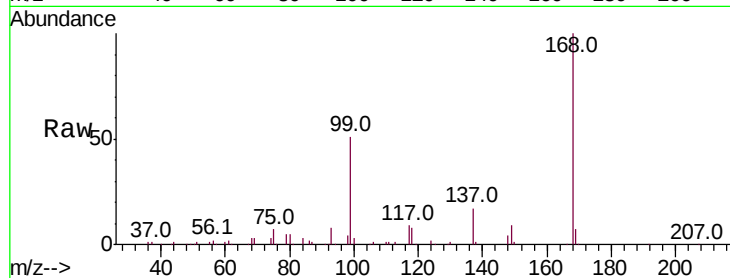
Tot Ion: 56 Resp: 4585

Ion Ratio Lower Upper

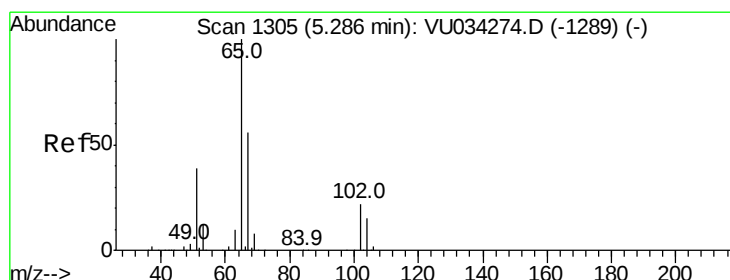
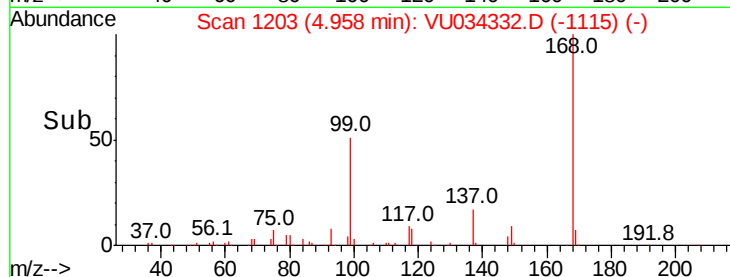
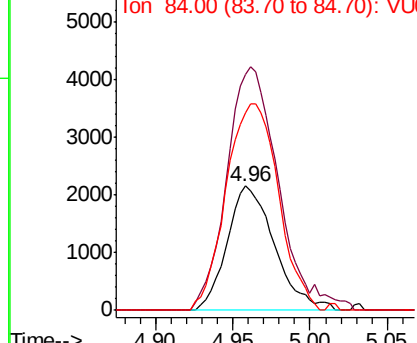
56 100

69 189.8 26.7 40.1#

84 158.7 68.2 102.4#



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



#33

1,2-Dichloroethane-d4

Concen: 47.940 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034332.D

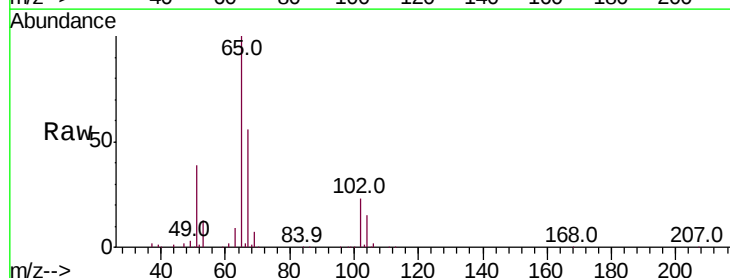
Acq: 06 Sep 2019 15:48

Tgt Ion: 65 Resp: 213841

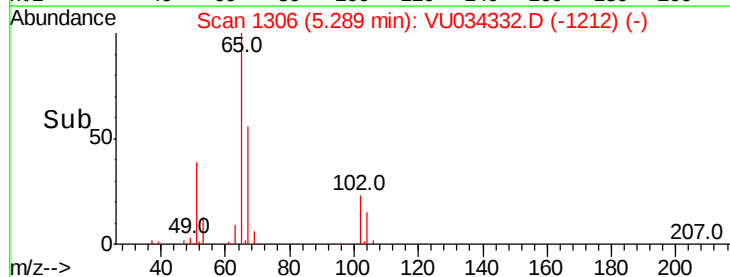
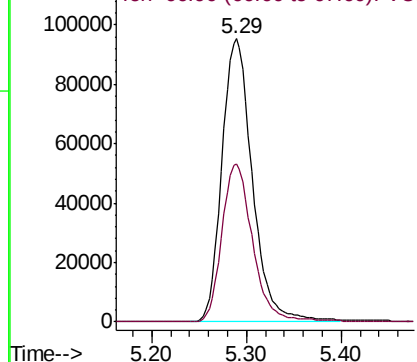
Ion Ratio Lower Upper

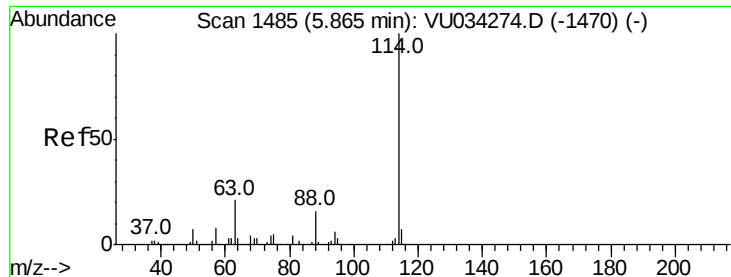
65 100

67 55.9 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :
MSVOA_U
ClientSampled :

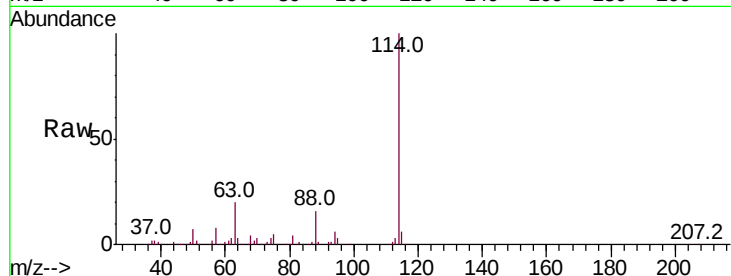
Tot Ion:114 Resp: 435096

Ion Ratio Lower Upper

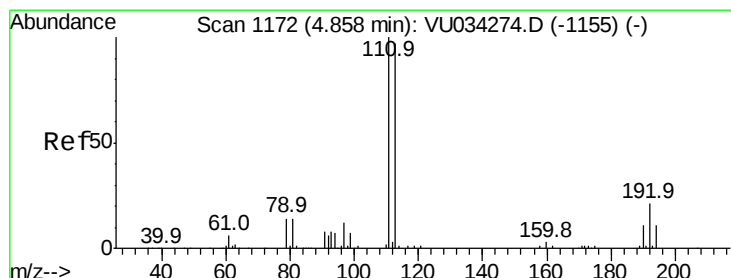
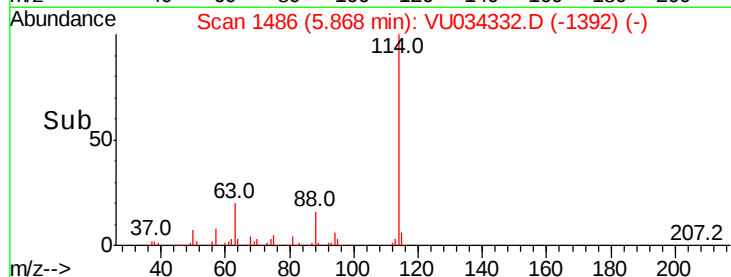
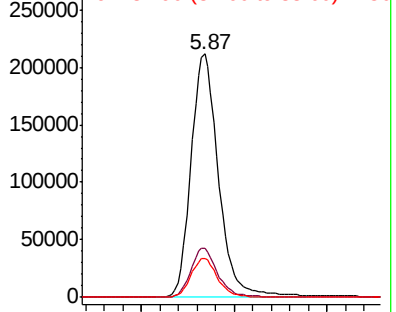
114 100

63 20.0 0.0 42.4

88 16.0 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU
Ion 87.90 (87.60 to 88.60): VU



#35

Dibromofluoromethane

Concen: 46.410 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

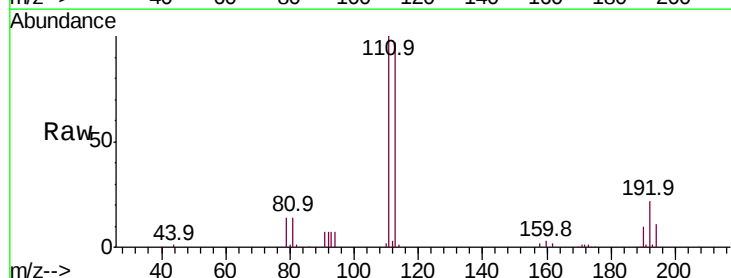
Tgt Ion:113 Resp: 187893

Ion Ratio Lower Upper

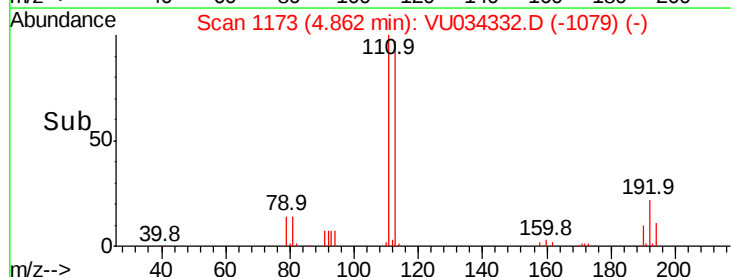
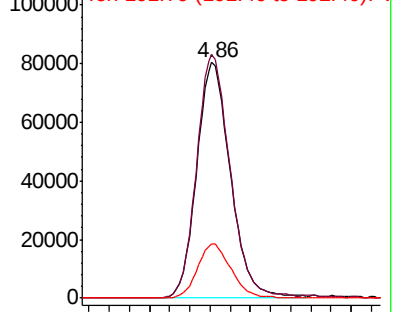
113 100

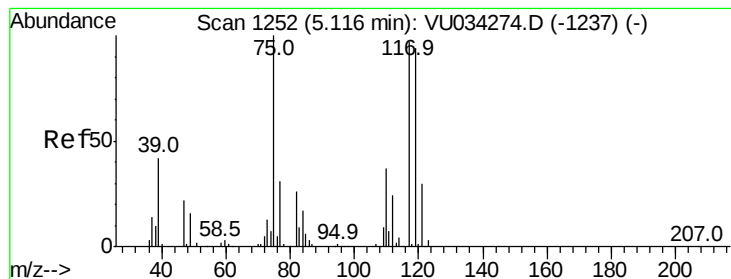
111 102.6 81.5 122.3

192 23.0 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.117 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :
MSVOA_U
ClientSampleId :

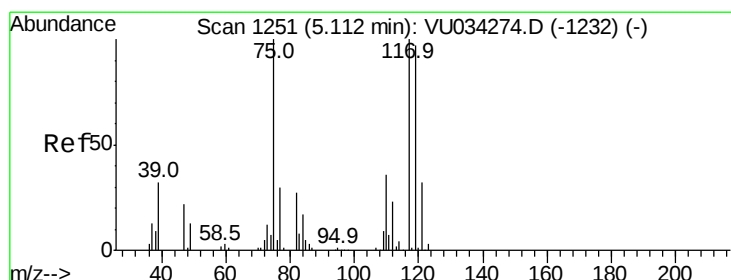
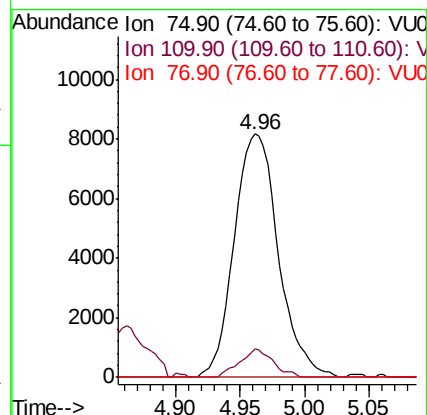
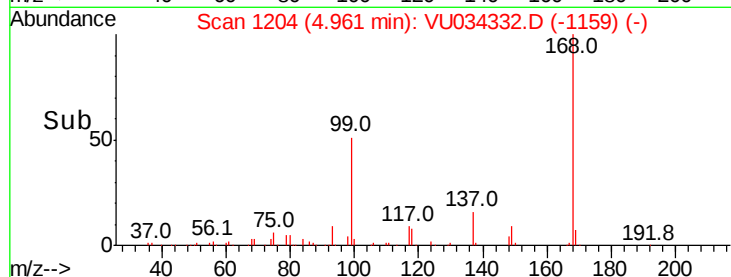
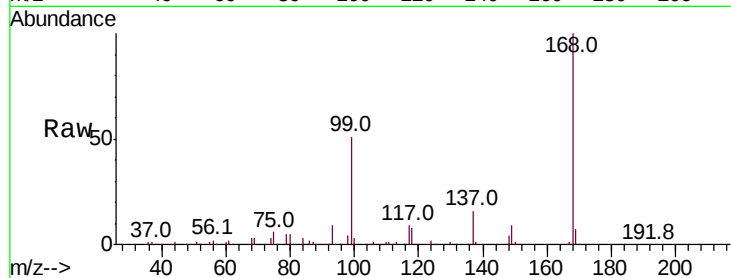
Tot Ion: 75 Resp: 19427

Ion Ratio Lower Upper

75 100

110 8.9 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.191 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

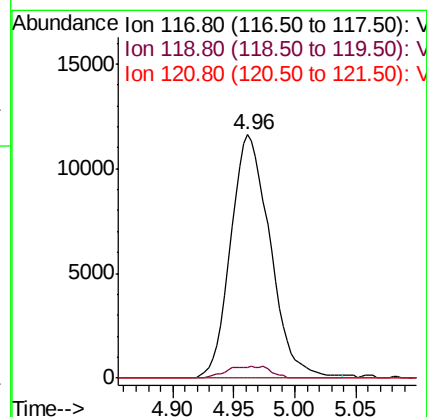
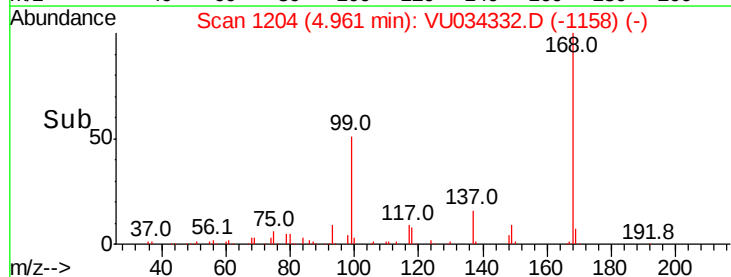
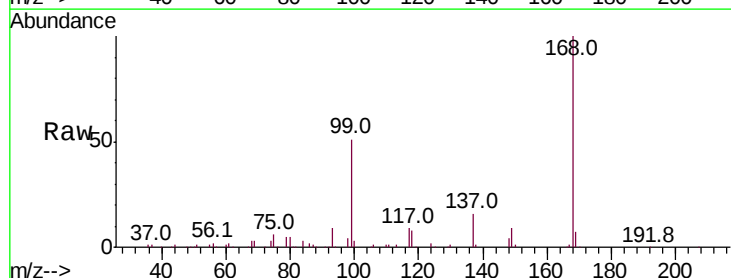
Tgt Ion: 117 Resp: 26154

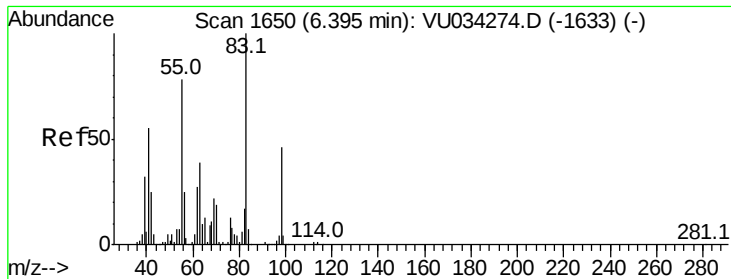
Ion Ratio Lower Upper

117 100

119 4.6 77.8 116.6#

121 0.0 25.2 37.8#

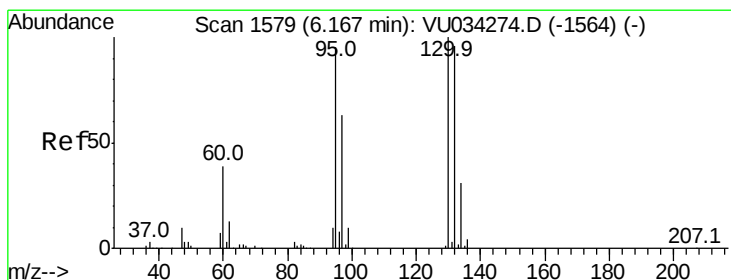
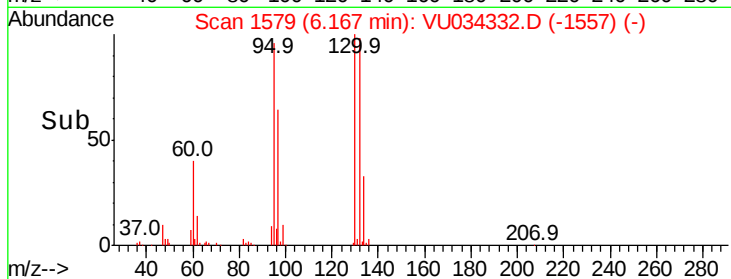
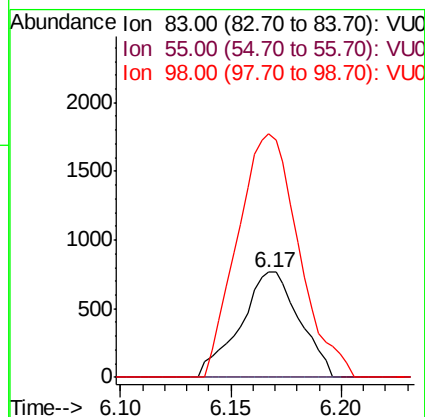
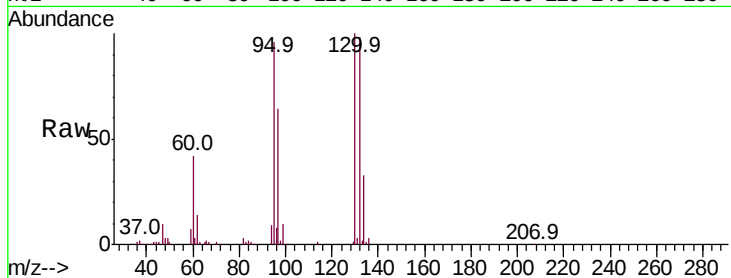




#39
Methvlcvclohexane
Concen: 0.282 ug/l
RT: 6.17 min Scan# 1579
Delta R.T. -0.23 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

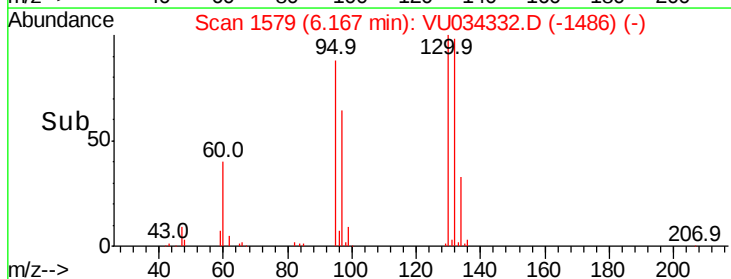
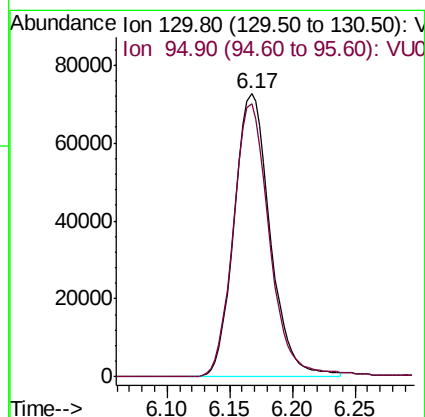
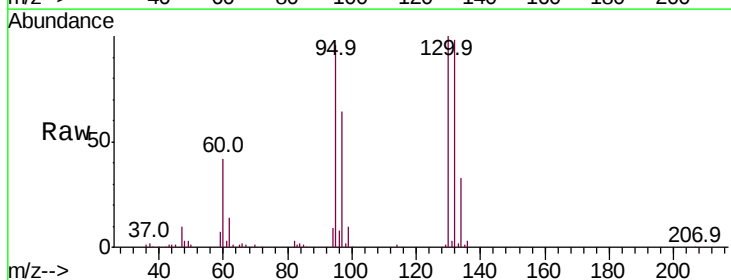
Instrument :
MSVOA_U
ClientSampleId :

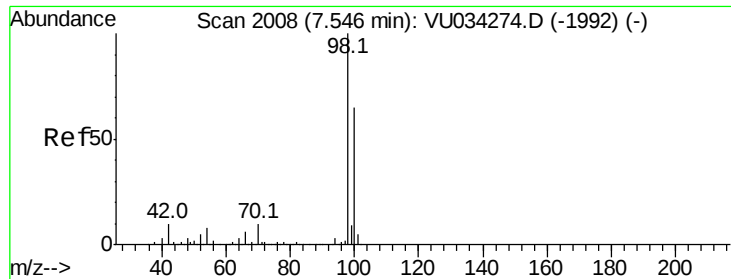
Tot Ion: 83 Resp: 1424
Ion Ratio Lower Upper
83 100
55 0.0 62.1 93.1#
98 232.4 37.0 55.6#



#44
Trichloroethene
Concen: 34.520 ug/l
RT: 6.17 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

Tgt Ion:130 Resp: 145444
Ion Ratio Lower Upper
130 100
95 96.3 0.0 189.2

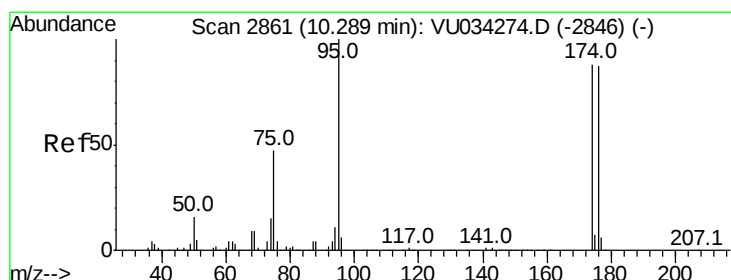
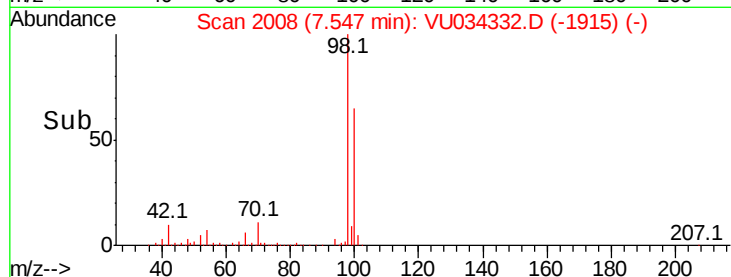
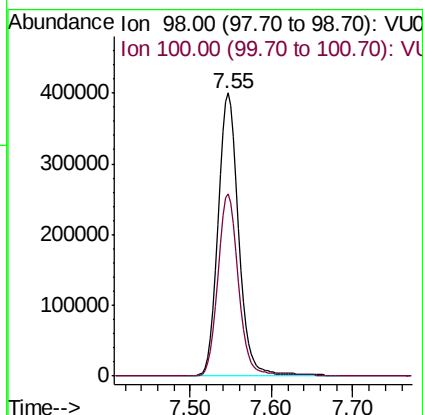
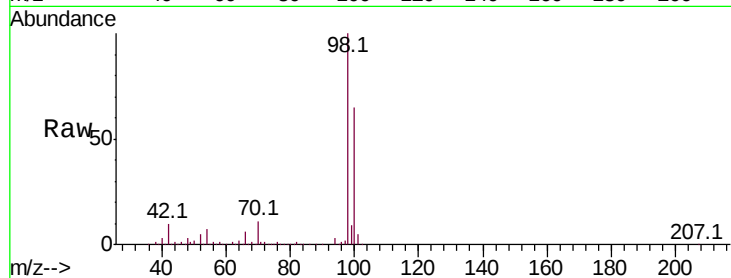




#50
Toluene-d8
Concen: 47.363 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

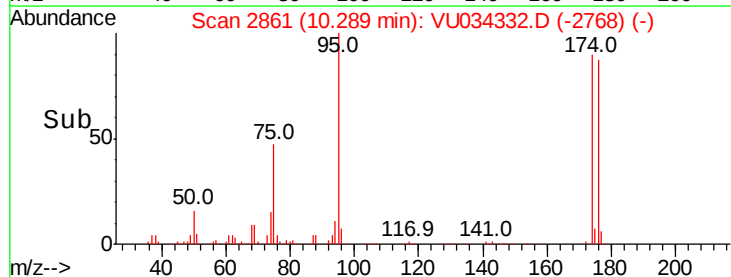
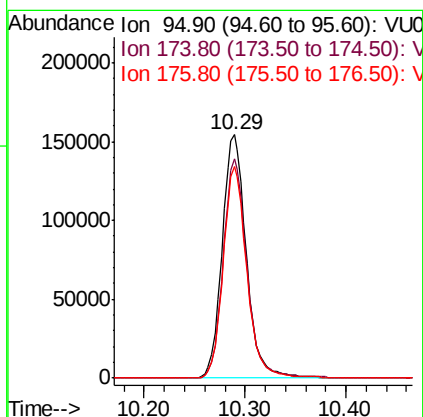
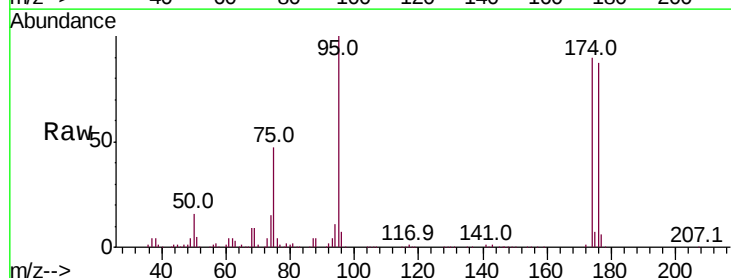
Instrument :
MSVOA_U
ClientSampleId :

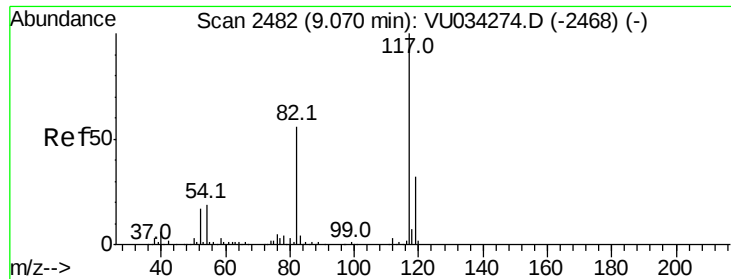
Tot Ion: 98 Resp: 720426
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 44.065 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

Tgt Ion: 95 Resp: 258783
Ion Ratio Lower Upper
95 100
174 88.8 0.0 175.2
176 85.3 0.0 168.0

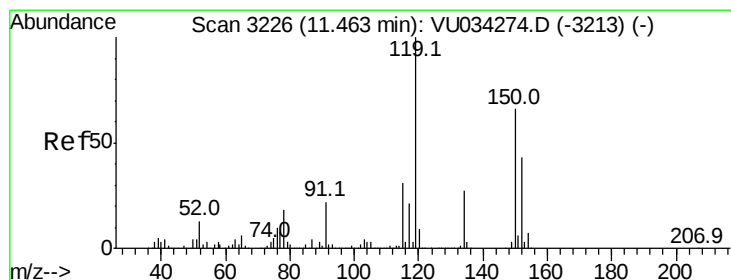
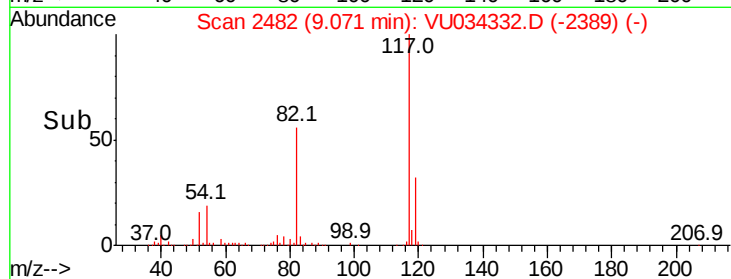
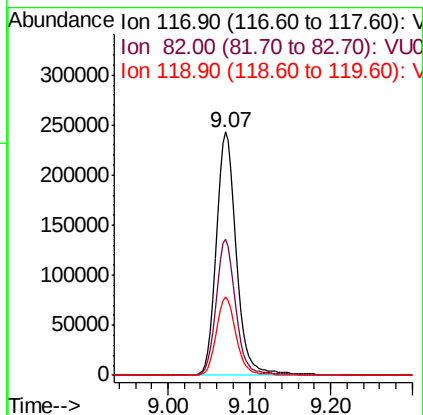
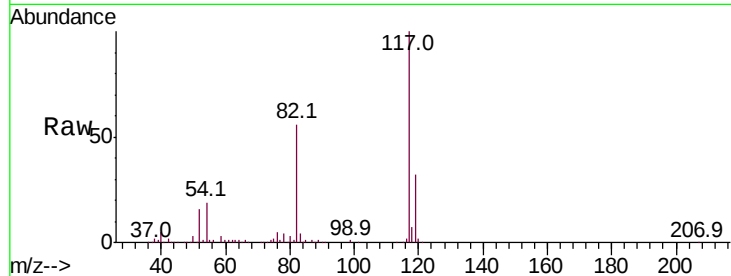




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

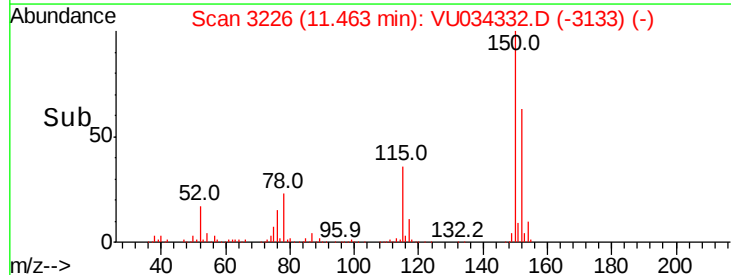
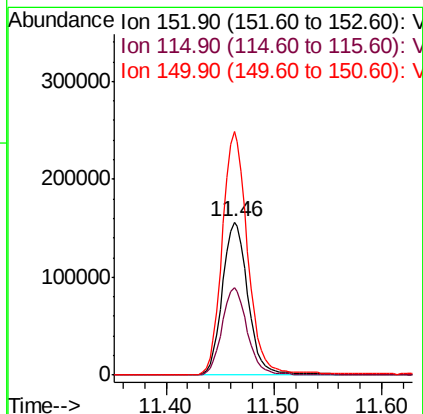
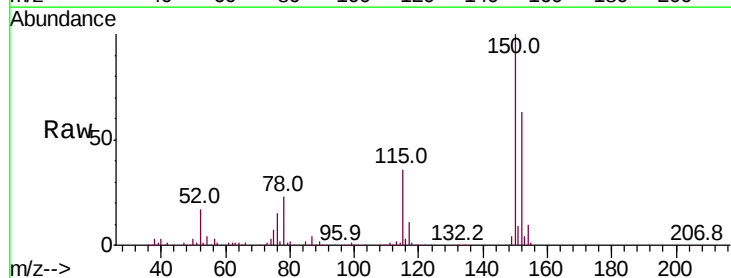
Instrument :
MSVOA_U
ClientSampleId :

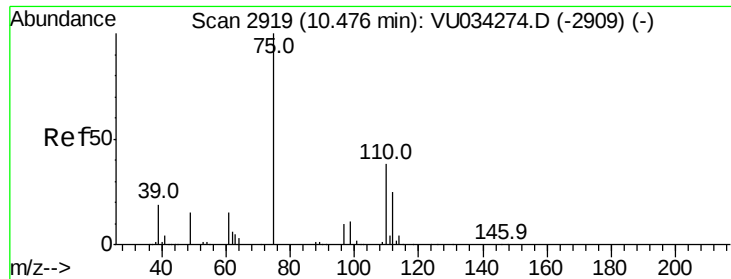
Tot Ion:117 Resp: 425650
Ion Ratio Lower Upper
117 100
82 56.1 44.6 67.0
119 32.1 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

Tgt Ion:152 Resp: 259142
Ion Ratio Lower Upper
152 100
115 56.6 39.1 117.3
150 158.1 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 21.205 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

Instrument :

MSVOA_U

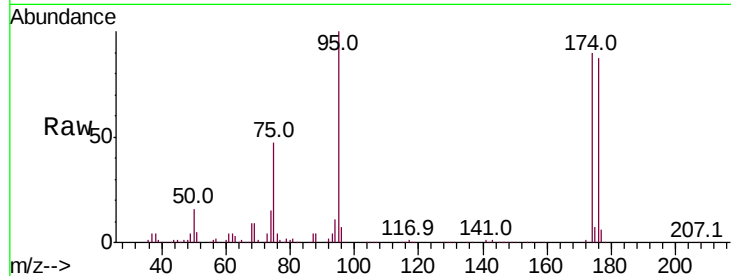
ClientSampleId :

Tot Ion: 75 Resp: 119951

Ion Ratio Lower Upper

75 100

77 1.2 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.29

80000

60000

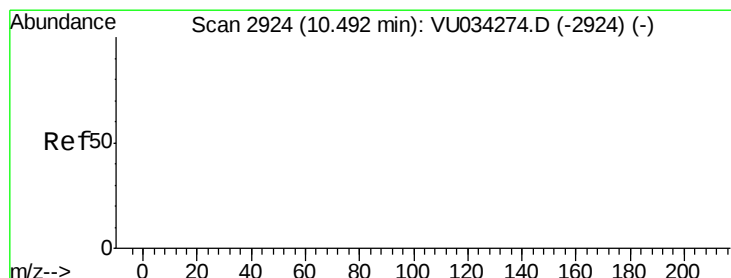
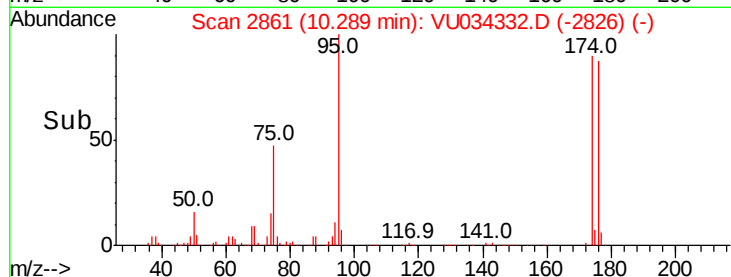
40000

20000

0

10.20 10.30 10.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 71.313 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034332.D

Acq: 06 Sep 2019 15:48

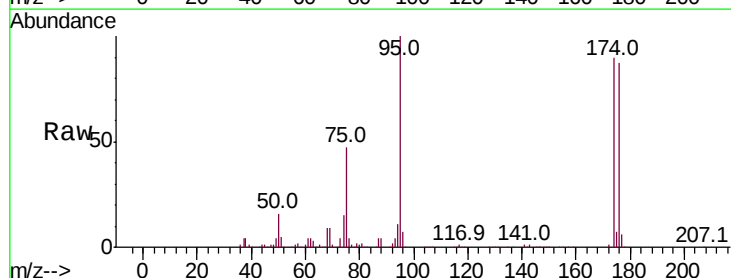
Tgt Ion: 75 Resp: 119951

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

100000

80000

60000

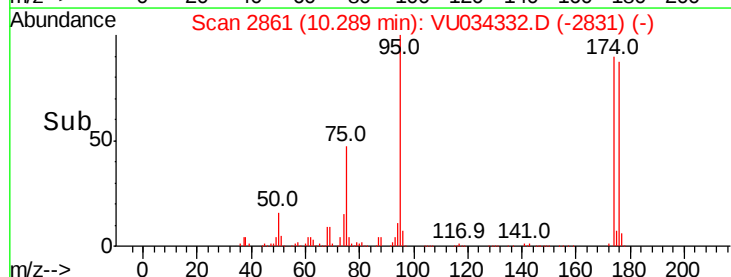
40000

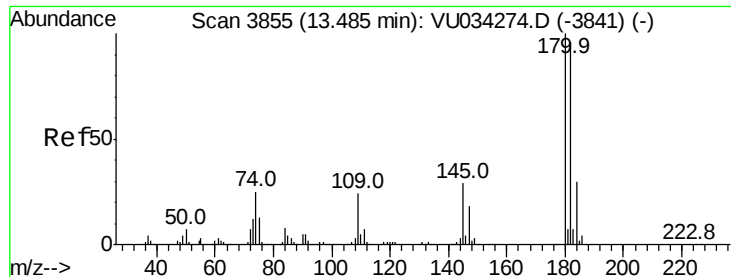
20000

0

10.20 10.30 10.40

Time-->

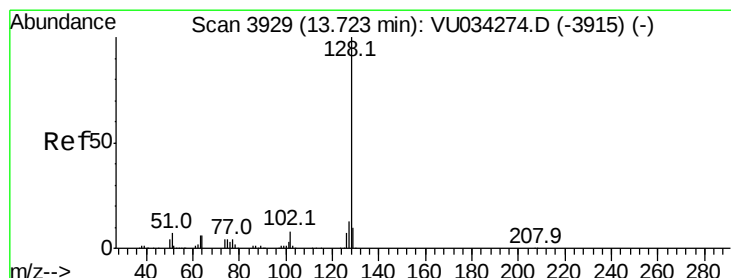
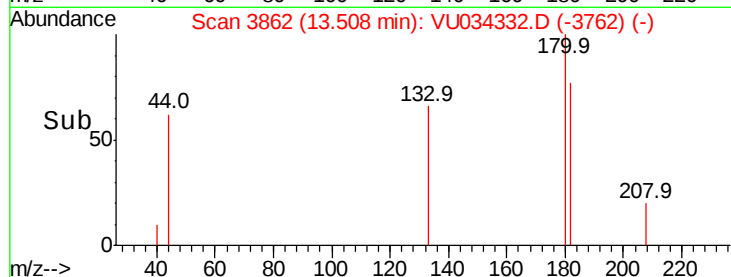
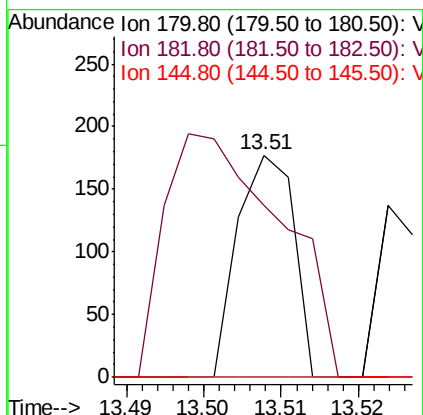
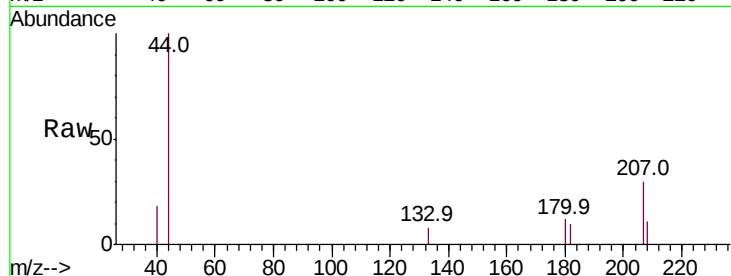




#93
1,2,4-Trichlorobenzene
Concen: 3.465 ug/l
RT: 13.51 min Scan# 3862
Delta R.T. 0.02 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

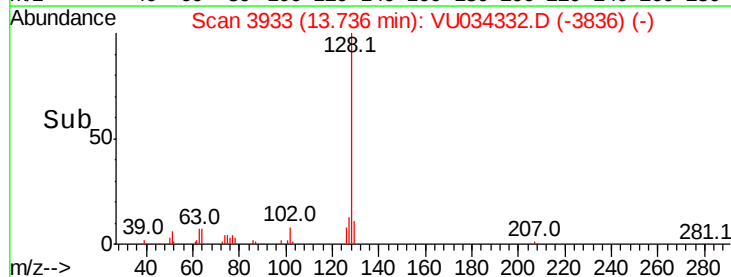
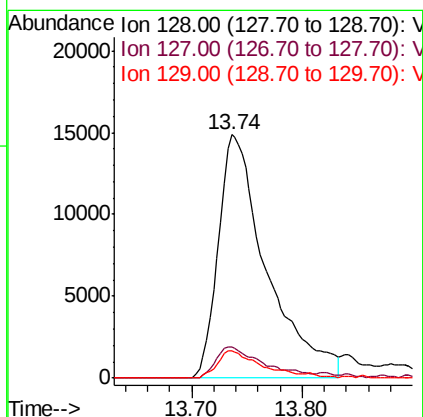
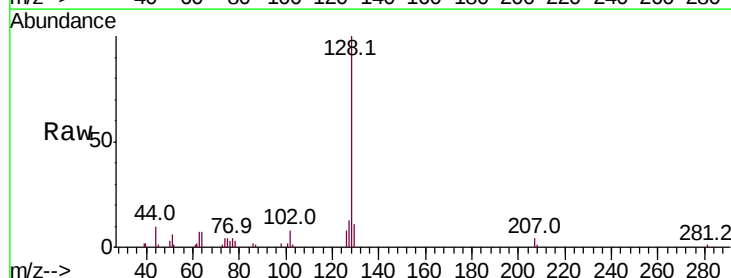
Instrument :
MSVOA_U
ClientSampled :

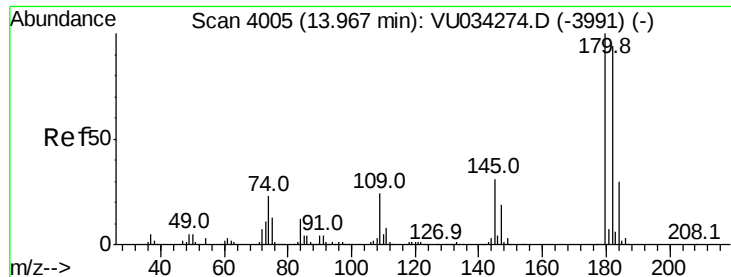
Tot Ion:180 Resp: 90
Ion Ratio Lower Upper
180 100
182 224.4 47.9 143.8#
145 0.0 14.4 43.0#



#95
Naphthalene
Concen: 6.374 ug/l
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU034332.D
Acq: 06 Sep 2019 15:48

Tgt Ion:128 Resp: 45175
Ion Ratio Lower Upper
128 100
127 11.4 10.6 15.8
129 8.8 8.4 12.6





#96
 1,2,3-Trichlorobenzene
 Concen: 2.662 ug/l
 RT: 13.98 min Scan# 4008
 Delta R.T. 0.01 min
 Lab File: VU034332.D
 Acq: 06 Sep 2019 15:48

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 148
 Ion Ratio Lower Upper
 180 100
 182 30.4 48.4 145.0#
 145 58.8 15.4 46.4#

