

Data File : VU029251.D
Acq On : 21 Jan 2019 16:08
Operator : JC/SP
Sample : K1013-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-B

Quant Time: Jan 22 01:12:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	112407	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	193749	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	189558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	71471	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	76817	55.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.56%	
35) Dibromofluoromethane	4.88	113	66914	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
50) Toluene-d8	7.56	98	257875	52.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.02%	
62) 4-Bromofluorobenzene	10.30	95	81296	45.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.24%	

Target Compounds

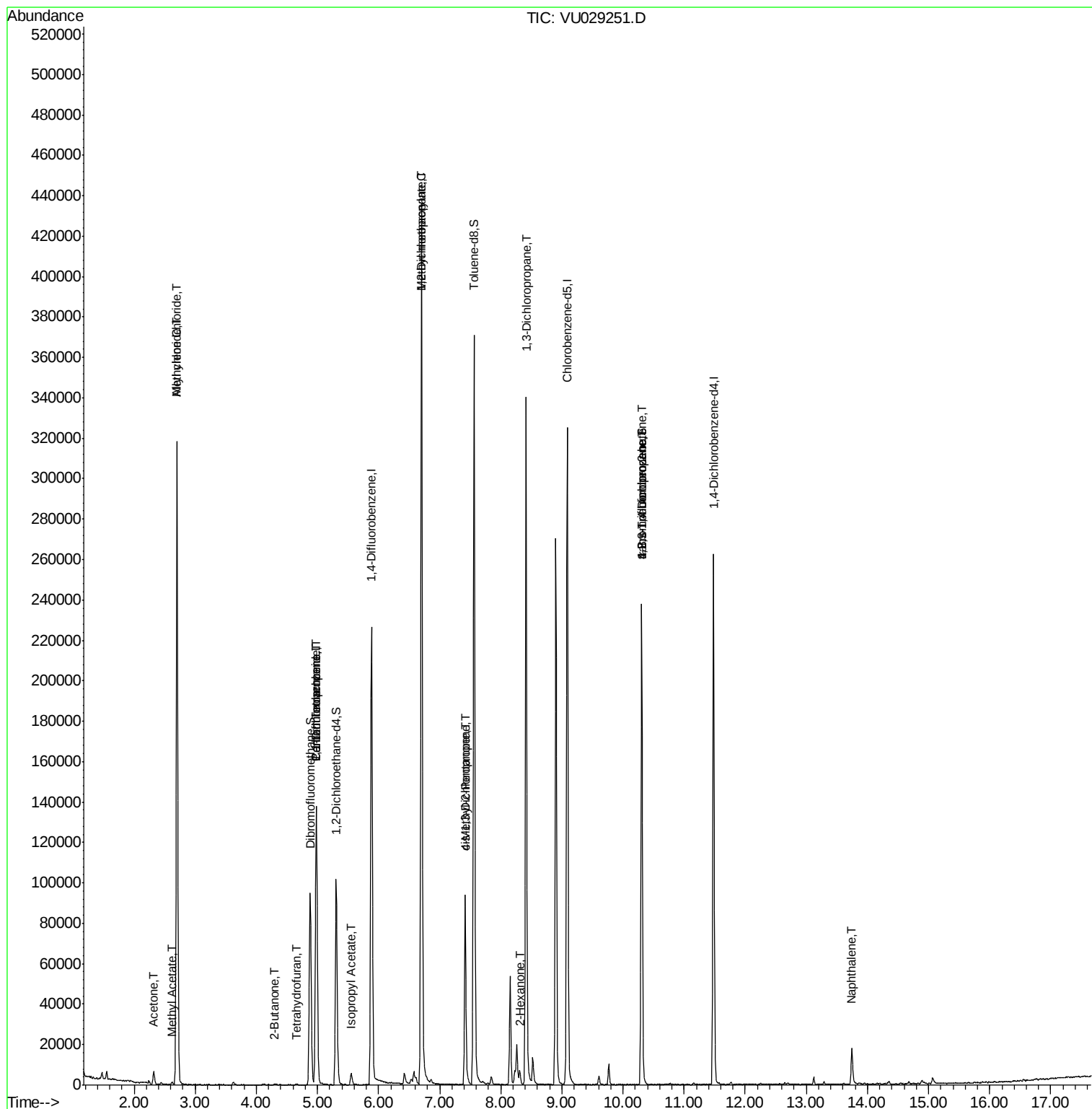
					Qvalue
3) Chloromethane	1.33	50	703	Below Cal	96
5) Bromomethane	1.55	94	21	Below Cal	# 2
14) Allyl chloride	2.70	41	5383	2.517 ug/l	# 29
16) Acetone	2.32	43	7418	8.474 ug/l	97
17) Carbon Disulfide	2.48	76	173	Below Cal	# 75
18) Methyl Acetate	2.62	43	1805	0.887 ug/l	# 81
20) Methylene Chloride	2.70	84	140076	94.248 ug/l	98
25) 2-Butanone	4.30	43	345	0.292 ug/l	# 47
29) Tetrahydrofuran	4.66	42	287	0.400 ug/l	# 30
31) Cyclohexane	4.98	56	2033	Below Cal	# 1
36) 1,1-Dichloropropene	4.98	75	8337	4.305 ug/l	# 47
38) Carbon Tetrachloride	4.98	117	9820	6.080 ug/l	# 17
43) Isopropyl Acetate	5.55	43	6823	2.092 ug/l	95
45) 1,2-Dichloropropane	6.70	63	440	0.276 ug/l	# 43
48) Methyl methacrylate	6.70	41	37322	23.505 ug/l	# 37
51) 4-Methyl-2-Pentanone	7.42	43	33247	14.981 ug/l	# 44
54) cis-1,3-Dichloropropene	7.42	75	16897	6.933 ug/l	# 65
57) 1,3-Dichloropropane	8.41	76	3221	1.278 ug/l	# 42
59) 2-Hexanone	8.31	43	5781	3.319 ug/l	# 21
76) 1,2,3-Trichloropropane	10.30	75	38271	21.855 ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.30	75	38271	56.365 ug/l	# 100
95) Naphthalene	13.75	128	18062	3.266 ug/l	99

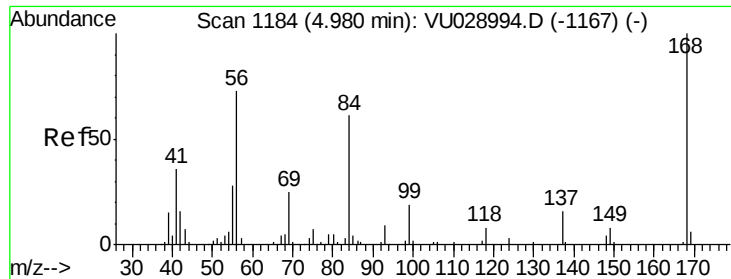
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU029251.D
Acq On : 21 Jan 2019 16:08
Operator : JC/SP
Sample : K1013-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-B

Quant Time: Jan 22 01:12:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

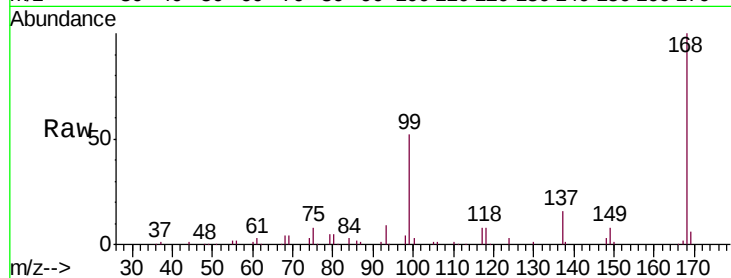
PL-01-011819-B

Tgt Ion:168 Resp: 112407

Ion Ratio Lower Upper

168 100

99 51.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

50000

40000

30000

20000

10000

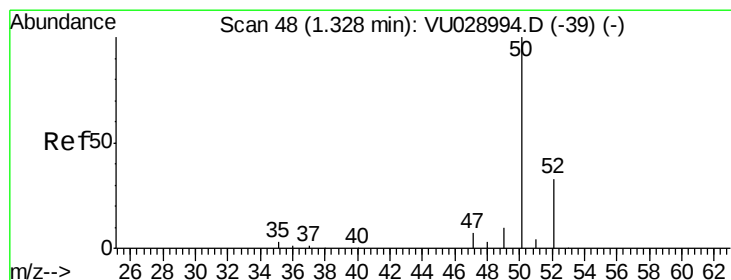
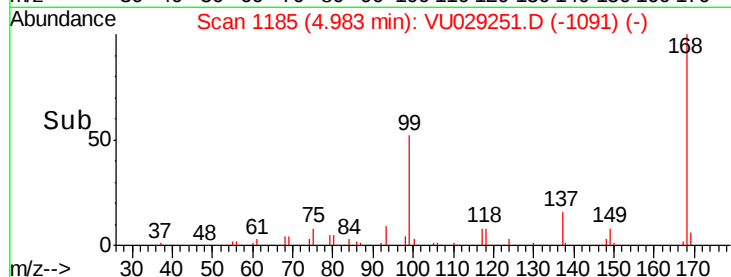
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029251.D

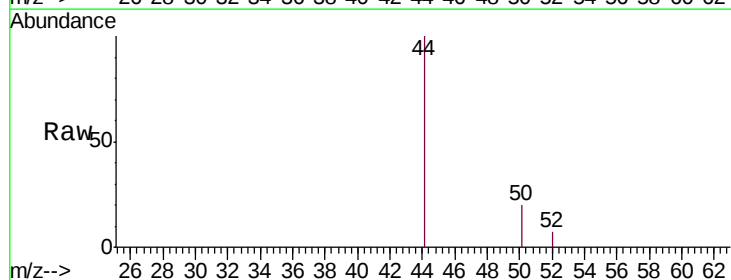
Acq: 21 Jan 2019 16:08

Tgt Ion: 50 Resp: 703

Ion Ratio Lower Upper

50 100

52 34.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)

1.33

600

400

200

0

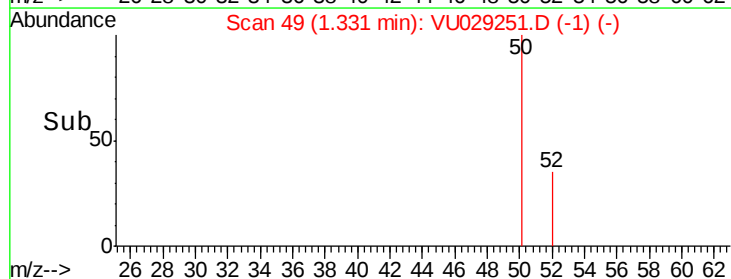
1.30

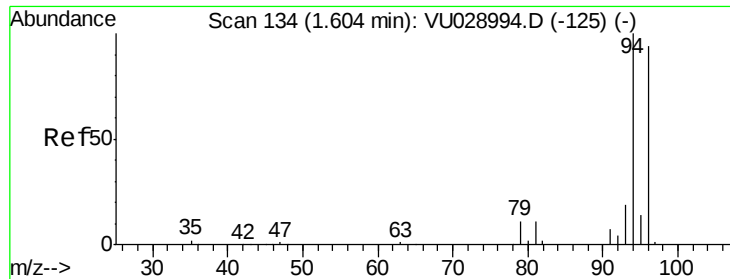
1.32

1.34

1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.55 min Scan# 118

Delta R.T. -0.05 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

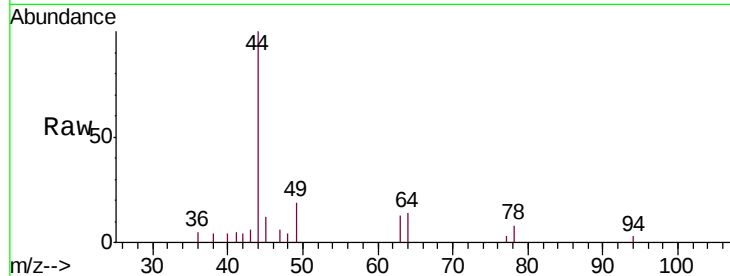
PL-01-011819-B

Tgt Ion: 94 Resp: 21

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.55

100

80

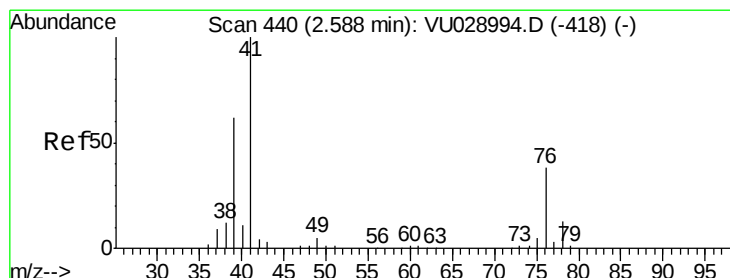
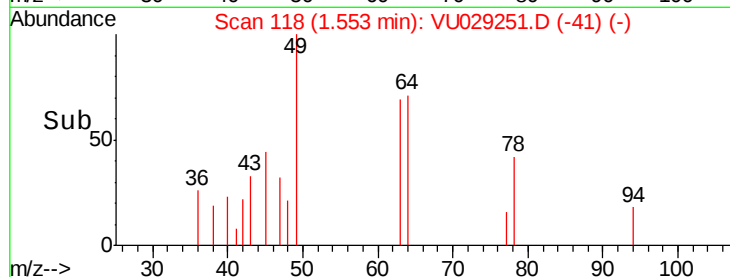
60

40

20

0

Time--> 1.54 1.54 1.55 1.55 1.56



#14

Allyl chloride

Concen: 2.517 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.12 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

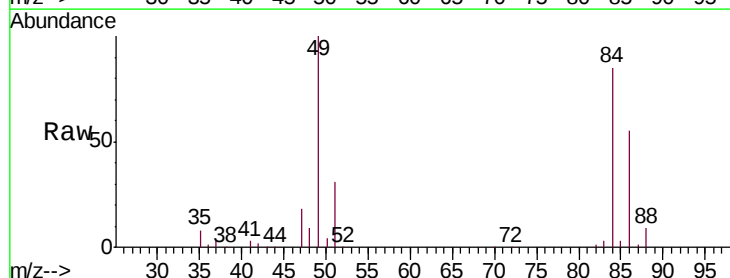
Tgt Ion: 41 Resp: 5383

Ion Ratio Lower Upper

41 100

39 0.0 45.0 67.6#

76 0.0 28.1 42.1#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

4000

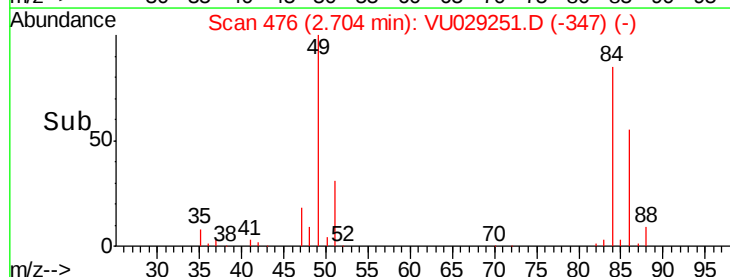
3000

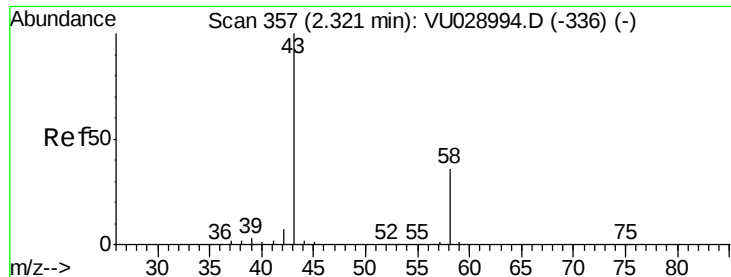
2000

1000

0

Time--> 2.65 2.70 2.75





#16

Acetone

Concen: 8.474 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

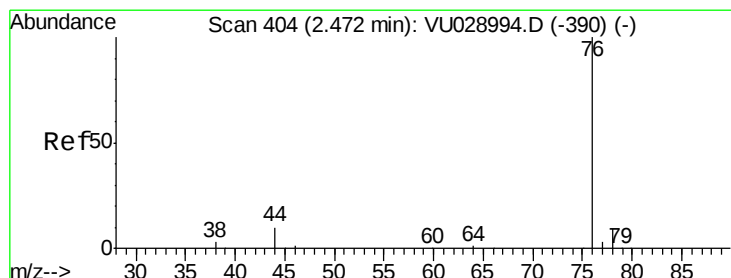
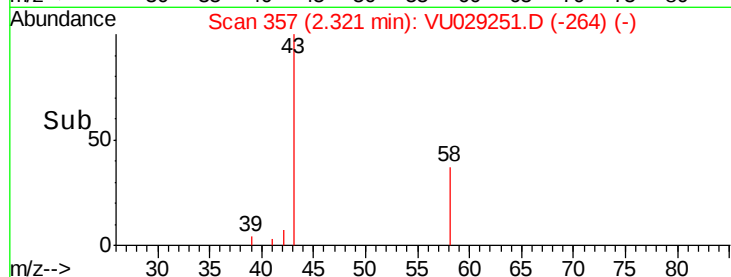
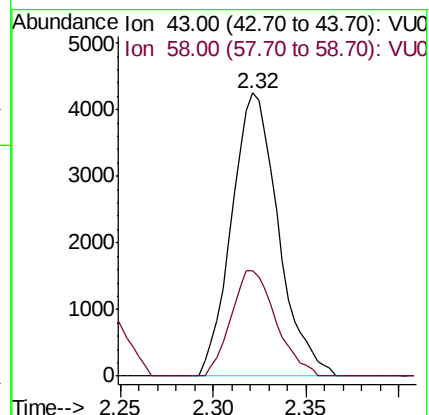
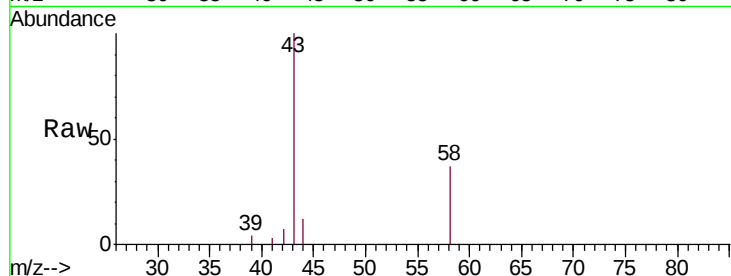
PL-01-011819-B

Tgt Ion: 43 Resp: 7418

Ion Ratio Lower Upper

43 100

58 37.4 28.6 42.8



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU029251.D

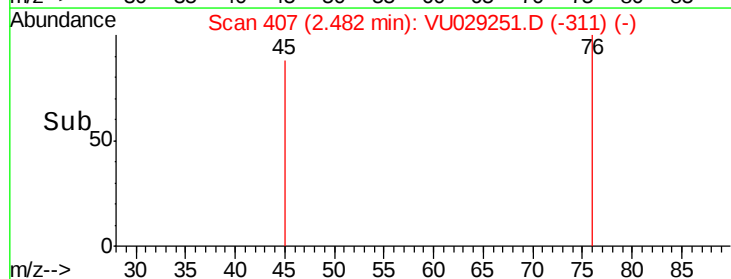
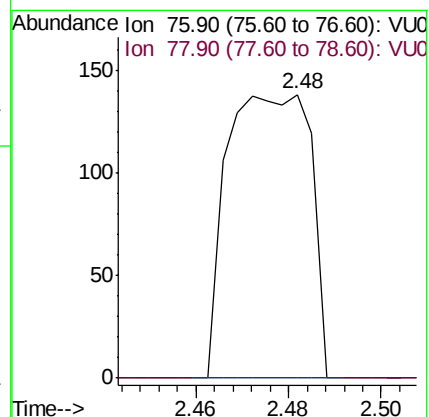
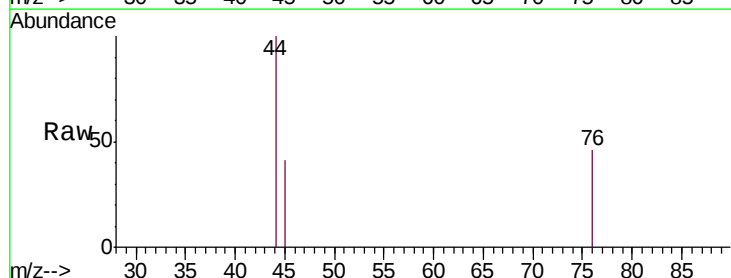
Acq: 21 Jan 2019 16:08

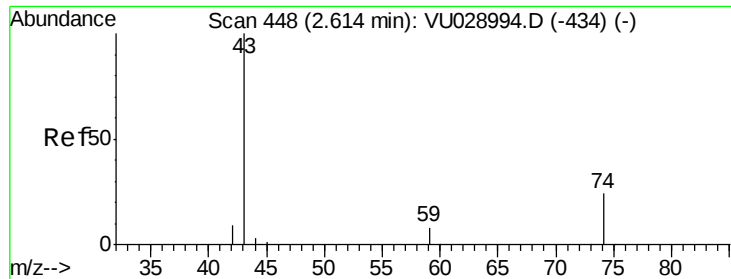
Tgt Ion: 76 Resp: 173

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

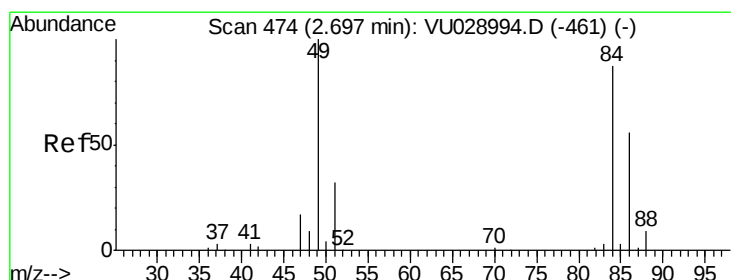
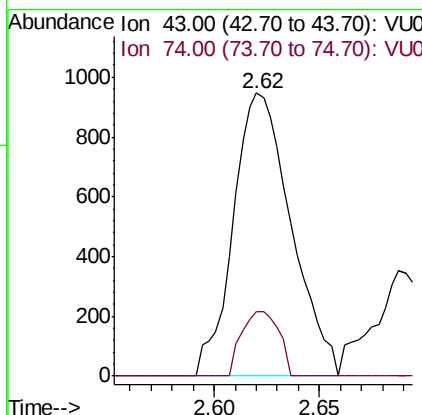
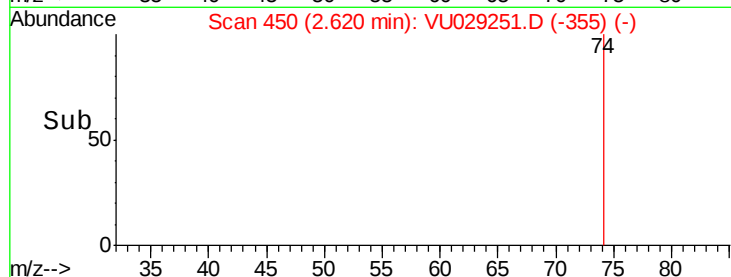
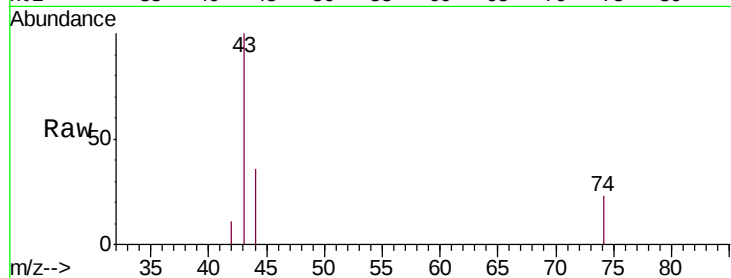




#18
Methyl Acetate
Concen: 0.887 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

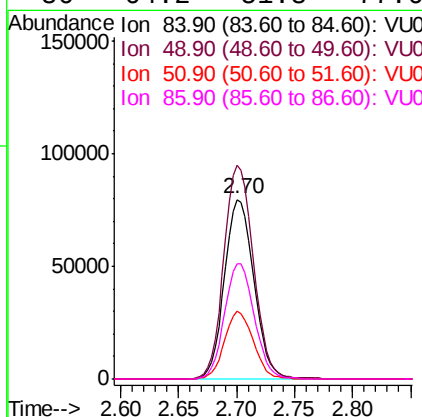
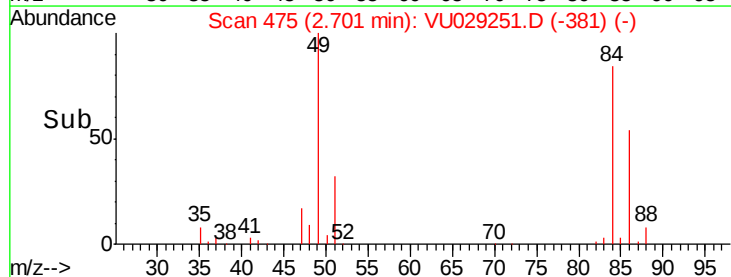
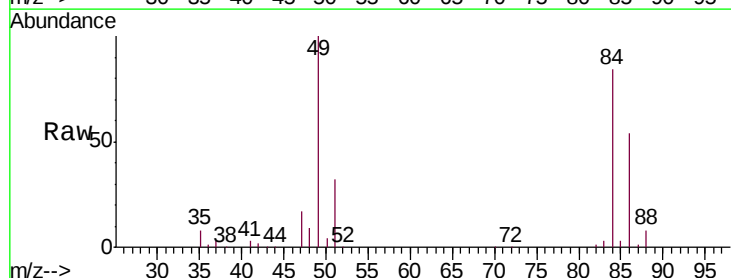
Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-B

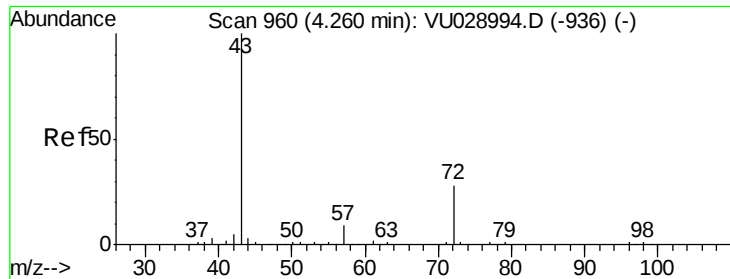
Tgt Ion: 43 Resp: 1805
Ion Ratio Lower Upper
43 100
74 14.7 19.5 29.3#



#20
Methylene Chloride
Concen: 94.248 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

Tgt Ion: 84 Resp: 140076
Ion Ratio Lower Upper
84 100
49 118.9 91.9 137.9
51 37.6 29.2 43.8
86 64.2 51.8 77.6





#25

2-Butanone

Concen: 0.292 ug/l

RT: 4.30 min Scan# 971

Delta R.T. 0.04 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

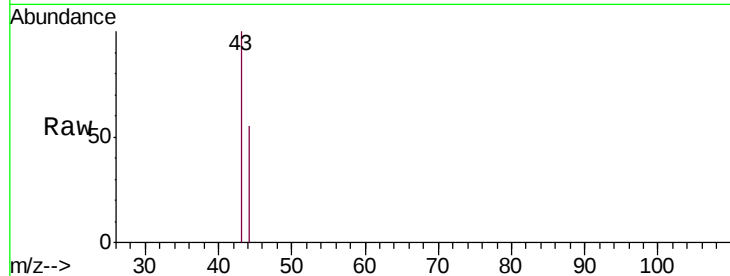
PL-01-011819-B

Tgt Ion: 43 Resp: 345

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.30

250

200

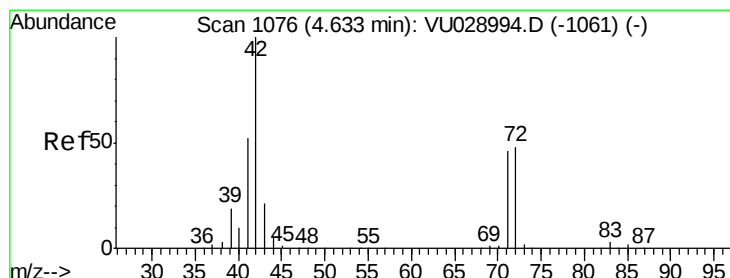
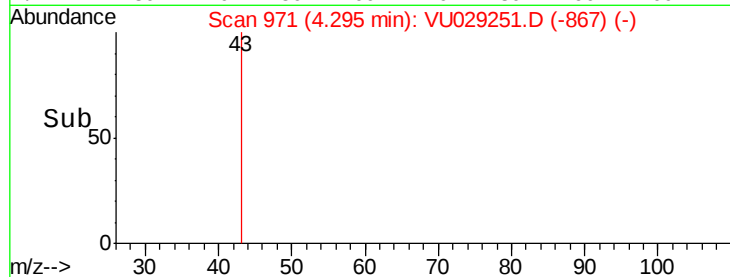
150

100

50

0

Time--> 4.26 4.28 4.30



#29

Tetrahydrofuran

Concen: 0.400 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

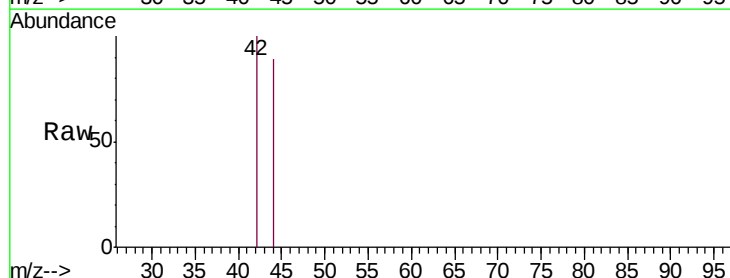
Tgt Ion: 42 Resp: 287

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 0.0 36.1 54.1#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

250

200

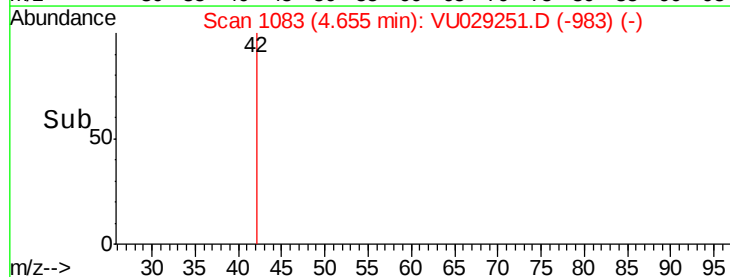
150

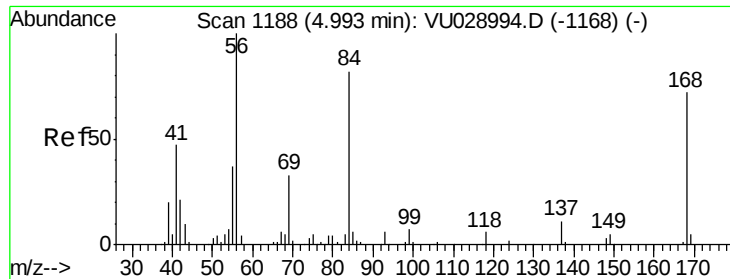
100

50

0

Time--> 4.62 4.64 4.66 4.68

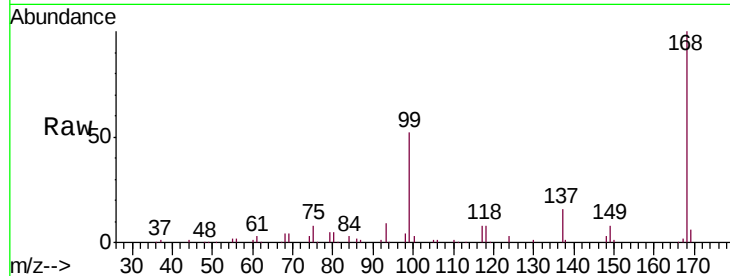




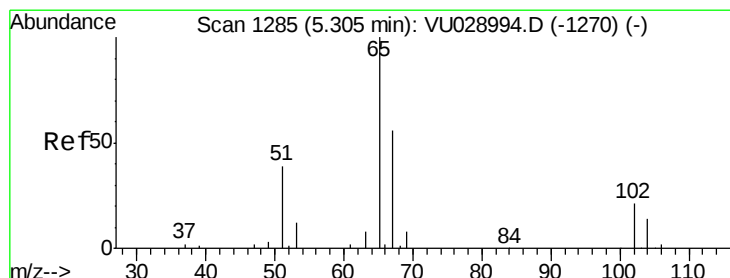
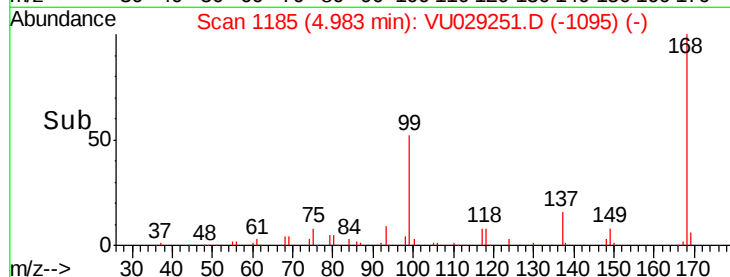
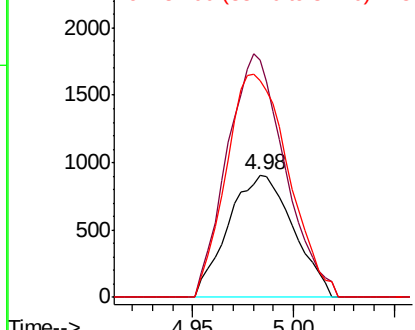
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-B

Tgt Ion: 56 Resp: 2033
Ion Ratio Lower Upper
56 100
69 193.7 26.7 40.1#
84 176.6 65.7 98.5#

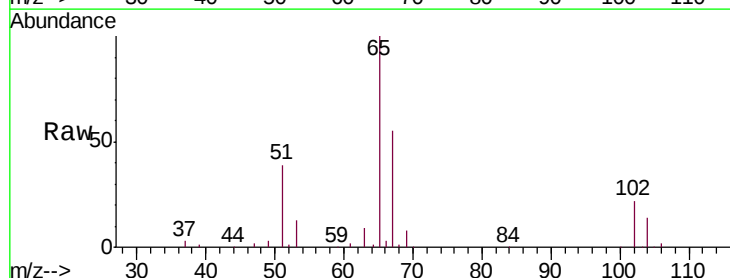


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

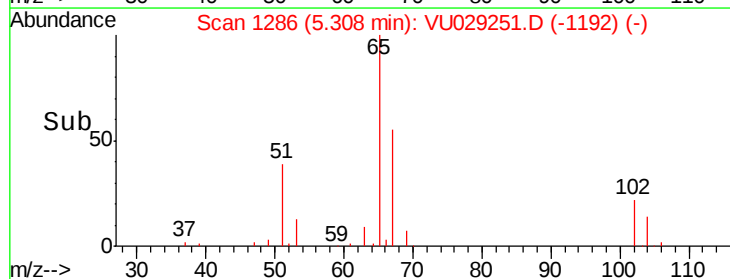
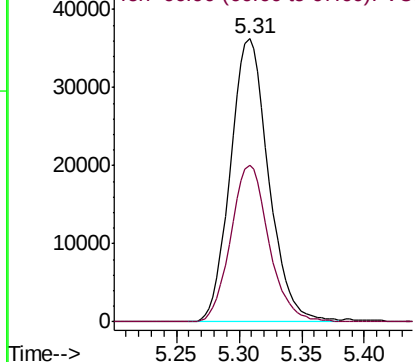


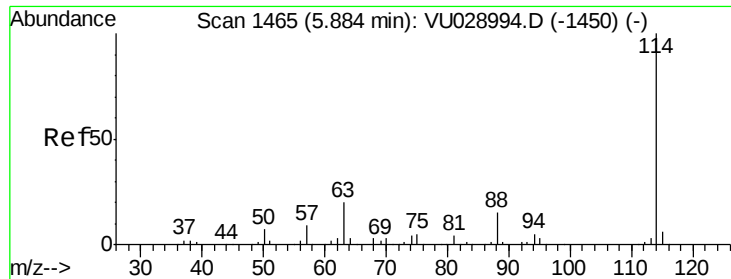
#33
1,2-Dichloroethane-d4
Concen: 55.281 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

Tgt Ion: 65 Resp: 76817
Ion Ratio Lower Upper
65 100
67 55.3 0.0 111.0



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

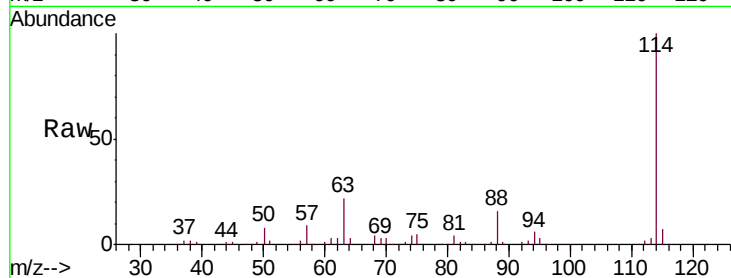




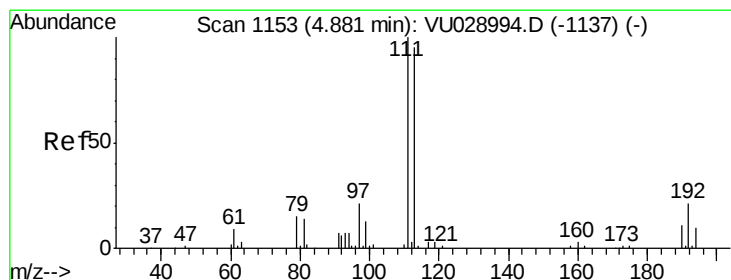
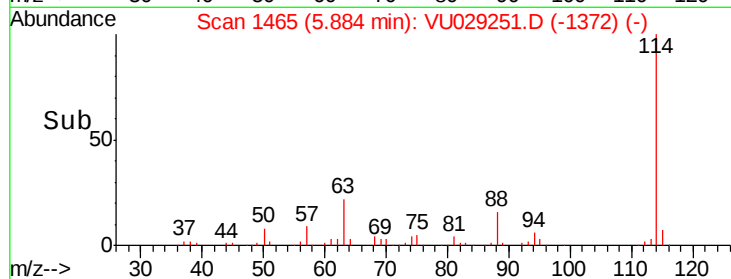
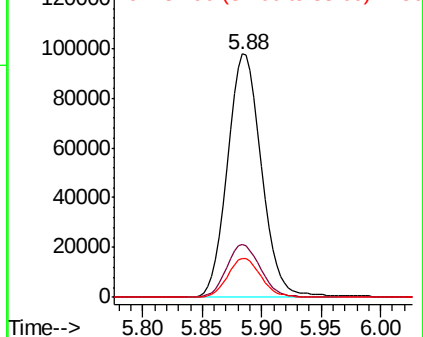
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU029251.D
 Acq: 21 Jan 2019 16:08

Instrument :
 MSVOA_U
 ClientSampleId :
 PL-01-011819-B

Tgt Ion:114 Resp: 193749
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 40.2
 88 16.0 0.0 30.4

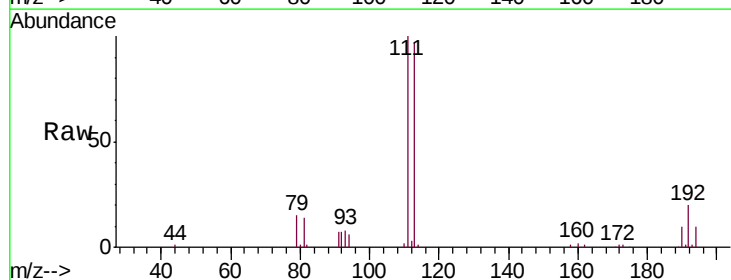


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

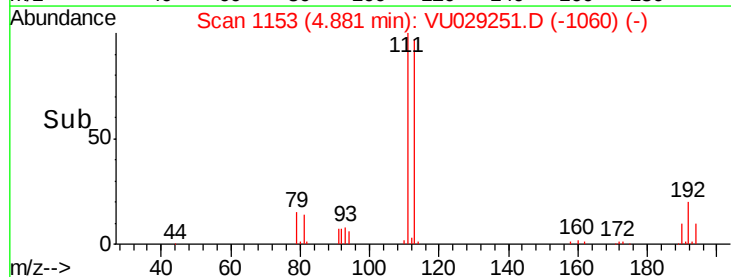
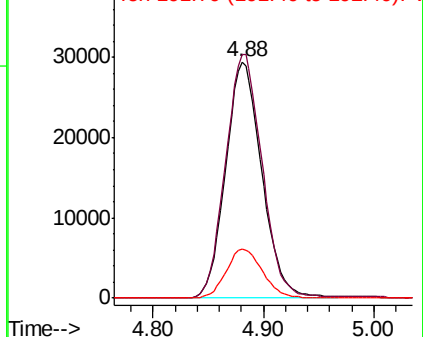


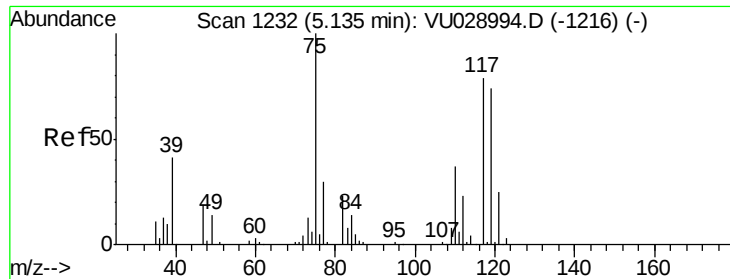
#35
 Dibromofluoromethane
 Concen: 53.278 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU029251.D
 Acq: 21 Jan 2019 16:08

Tgt Ion:113 Resp: 66914
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.4 122.2
 192 20.7 16.8 25.2



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

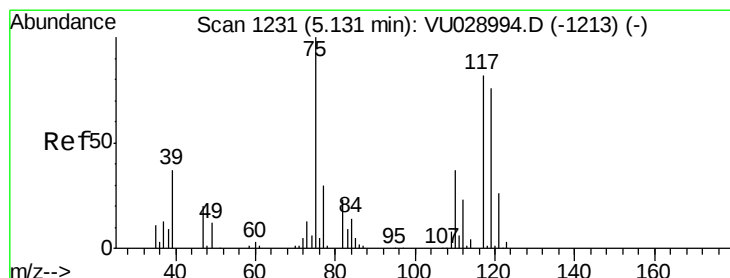
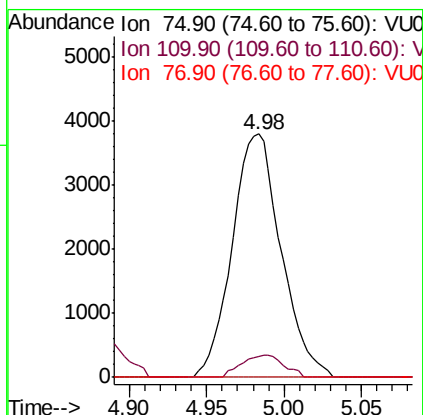
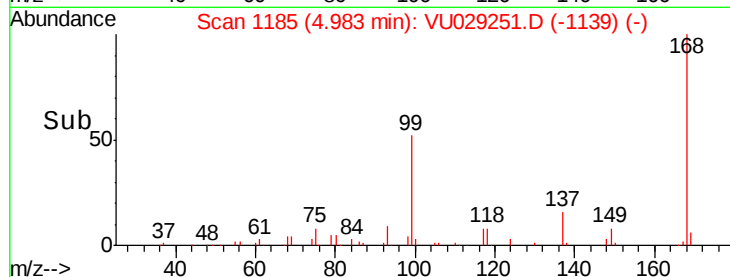
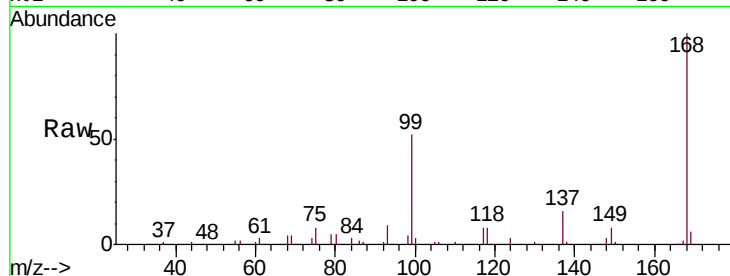




#36
 1,1-Dichloropropene
 Concen: 4.305 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029251.D
 Acq: 21 Jan 2019 16:08

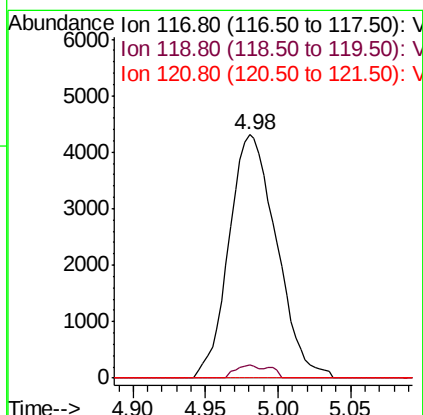
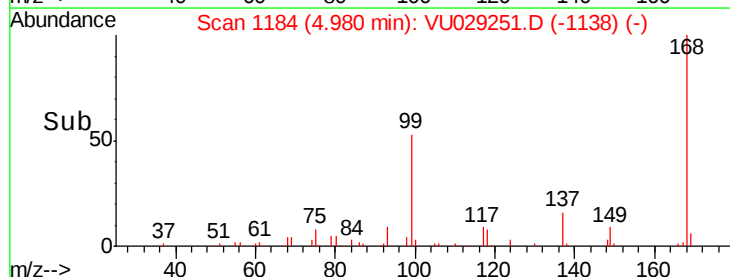
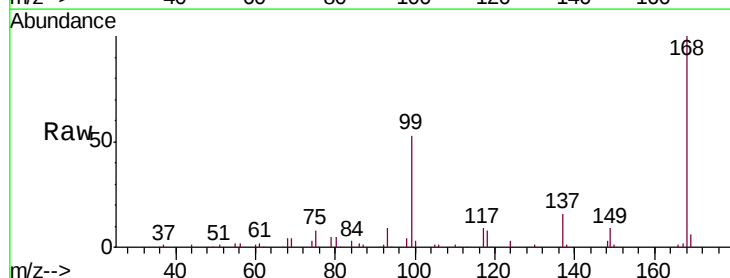
Instrument :
 MSVOA_U
 ClientSampleId :
 PL-01-011819-B

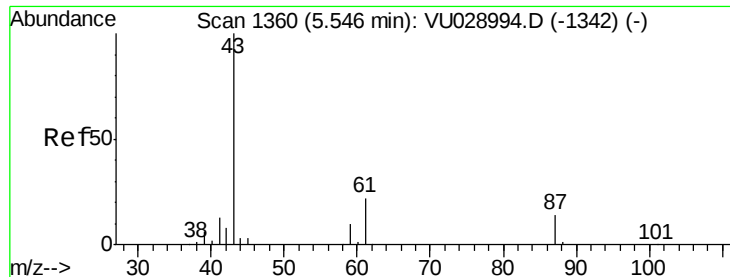
Tgt Ion: 75 Resp: 8337
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.080 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029251.D
 Acq: 21 Jan 2019 16:08

Tgt Ion: 117 Resp: 9820
 Ion Ratio Lower Upper
 117 100
 119 5.2 74.6 111.8#
 121 0.0 25.0 37.6#

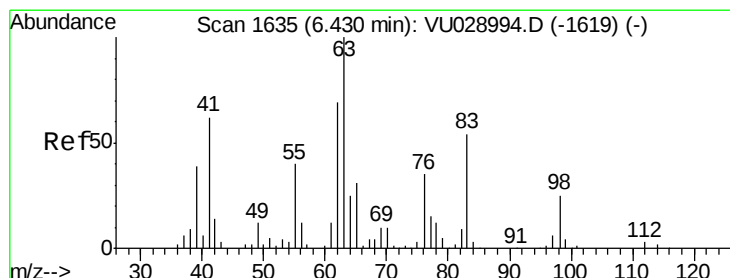
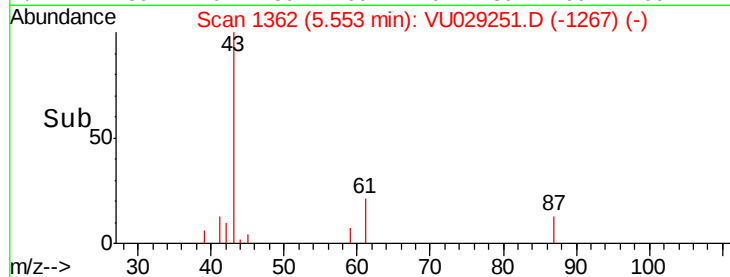
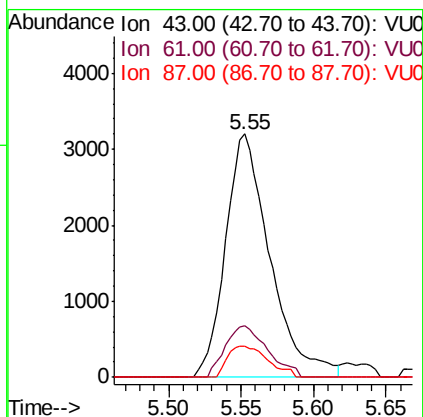
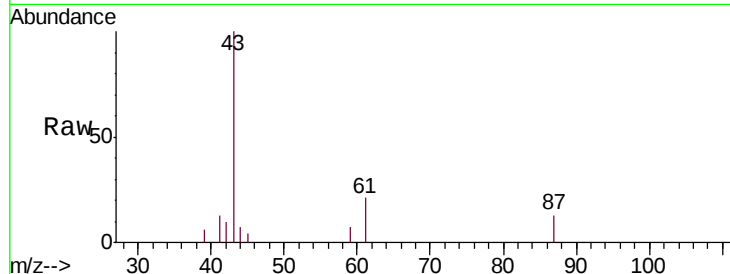




#43
Isopropyl Acetate
Concen: 2.092 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

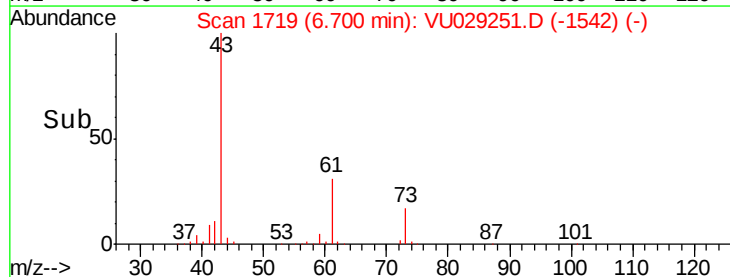
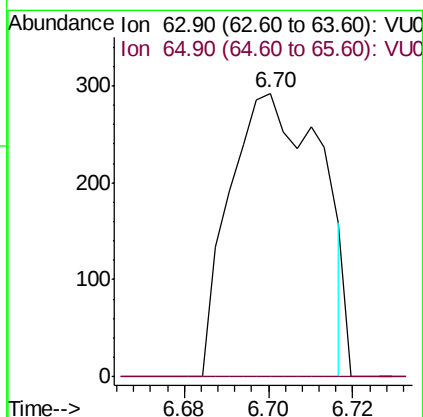
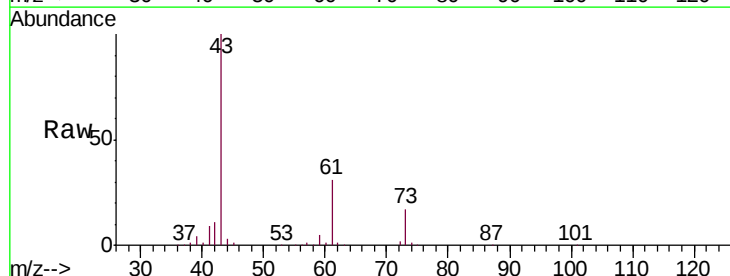
Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-B

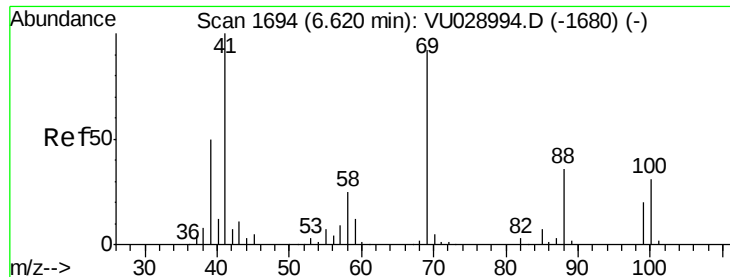
Tgt Ion: 43 Resp: 6823
Ion Ratio Lower Upper
43 100
61 20.0 17.8 26.6
87 11.7 11.3 16.9



#45
1,2-Dichloropropane
Concen: 0.276 ug/l
RT: 6.70 min Scan# 1719
Delta R.T. 0.27 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

Tgt Ion: 63 Resp: 440
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#





#48

Methyl methacrylate

Concen: 23.505 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

PL-01-011819-B

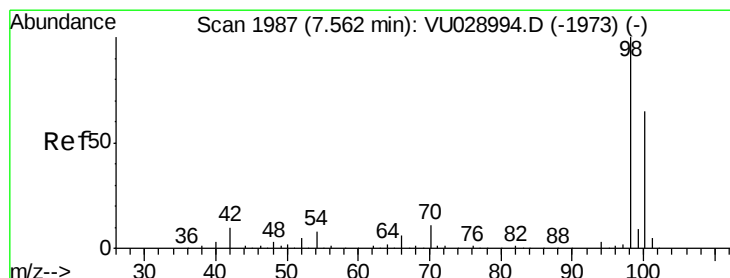
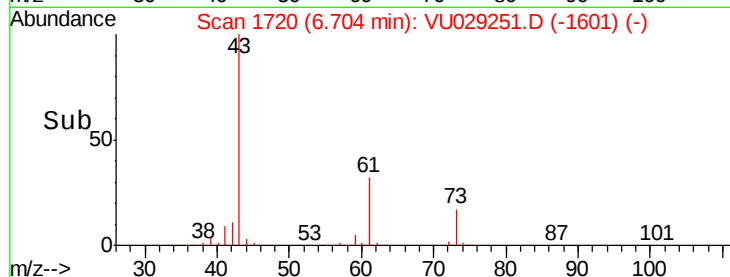
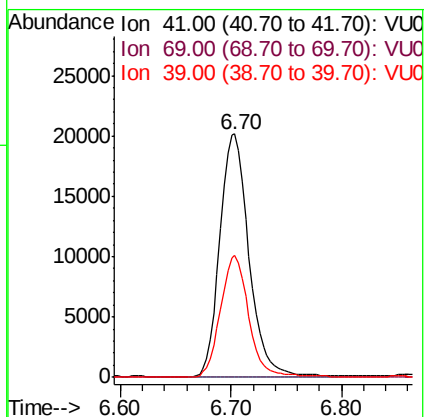
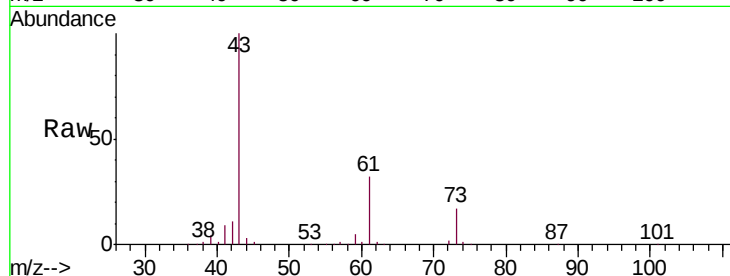
Tgt Ion: 41 Resp: 37322

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

39 48.3 39.6 59.4



#50

Toluene-d8

Concen: 52.009 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU029251.D

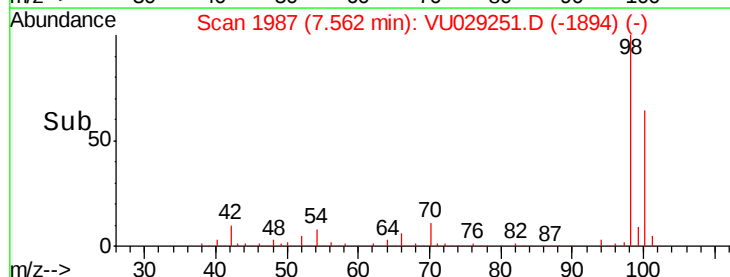
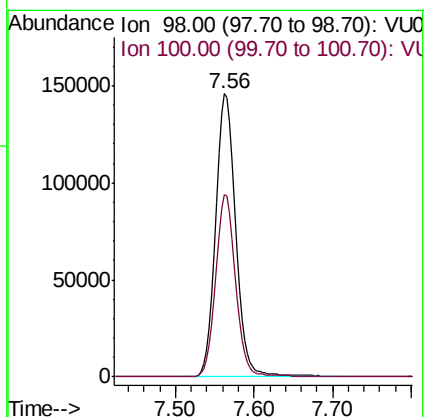
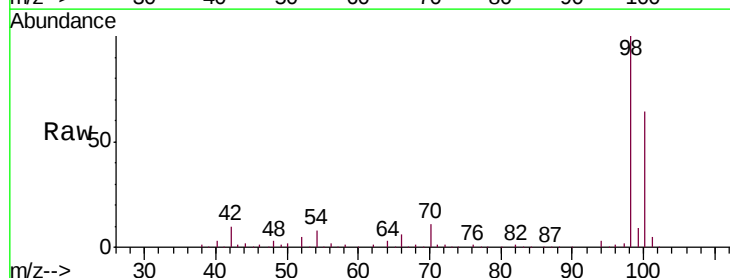
Acq: 21 Jan 2019 16:08

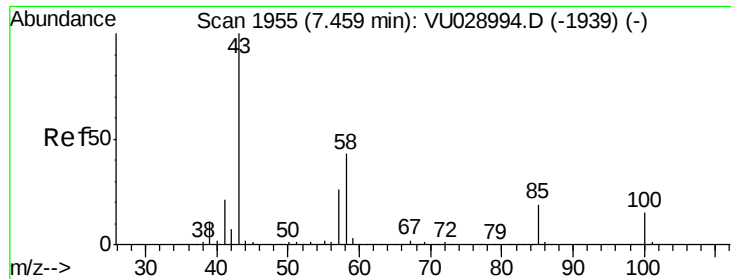
Tgt Ion: 98 Resp: 257875

Ion Ratio Lower Upper

98 100

100 63.5 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 14.981 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. -0.04 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

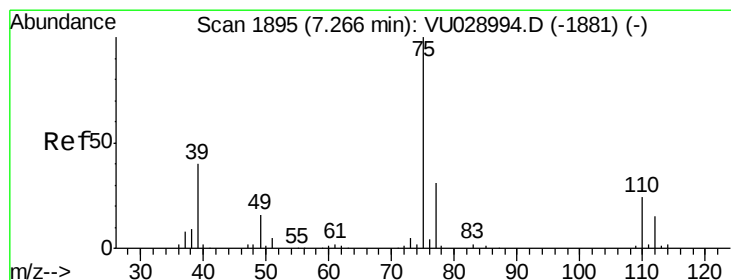
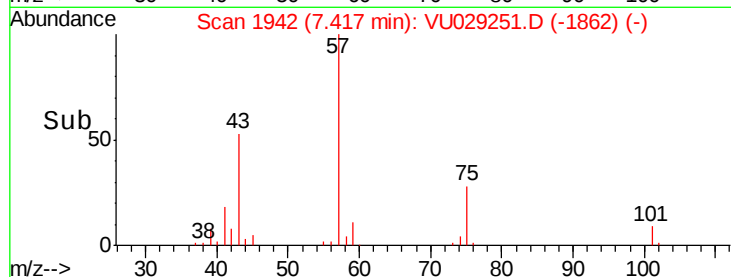
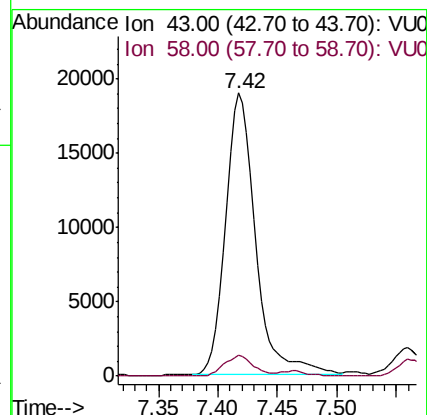
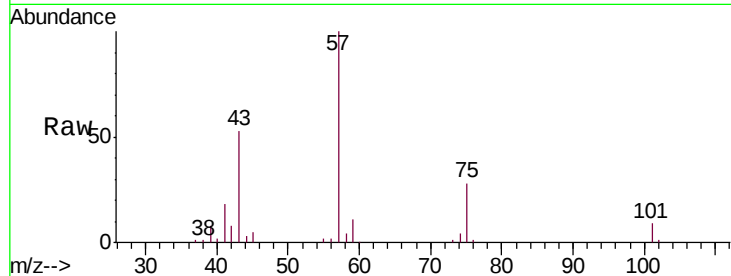
PL-01-011819-B

Tgt Ion: 43 Resp: 33247

Ion Ratio Lower Upper

43 100

58 7.1 33.9 50.9#



#54

cis-1,3-Dichloropropene

Concen: 6.933 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

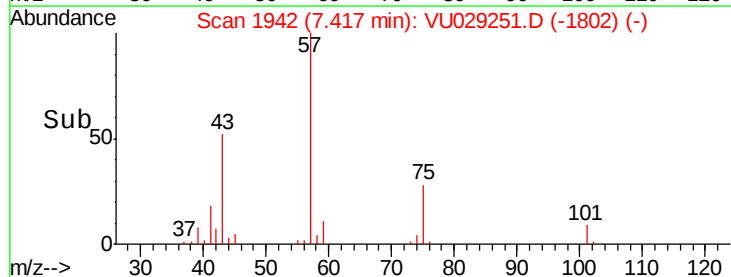
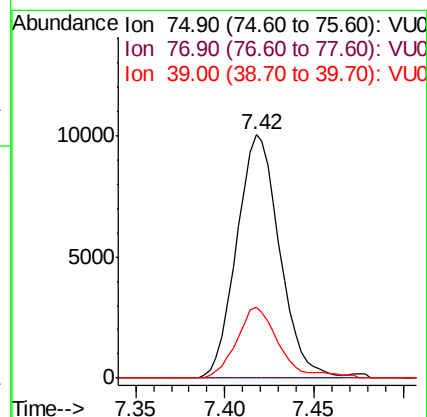
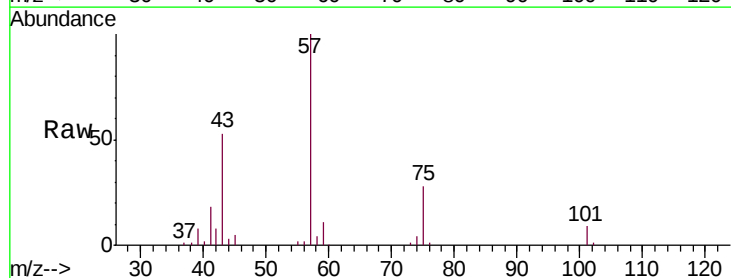
Tgt Ion: 75 Resp: 16897

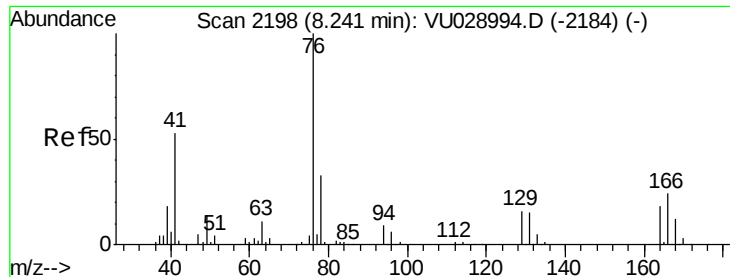
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 29.2 32.2 48.4#

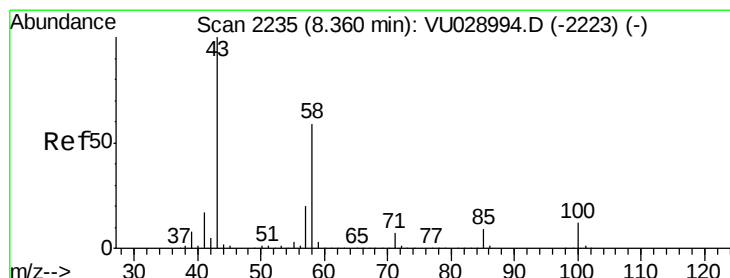
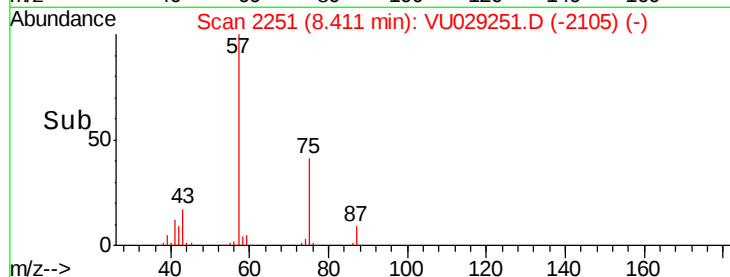
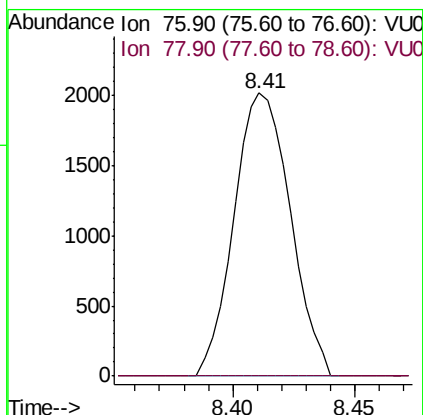
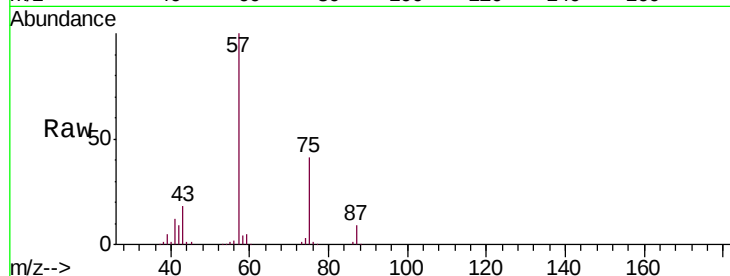




#57
 1,3-Dichloropropane
 Concen: 1.278 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029251.D
 Acq: 21 Jan 2019 16:08

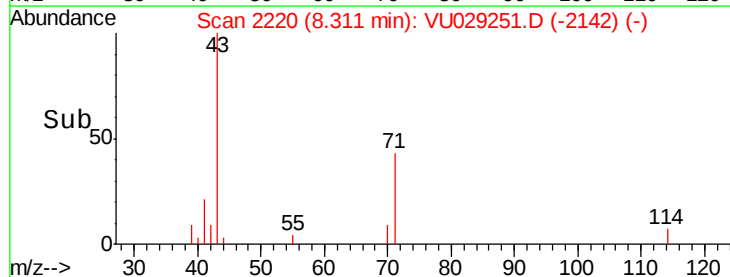
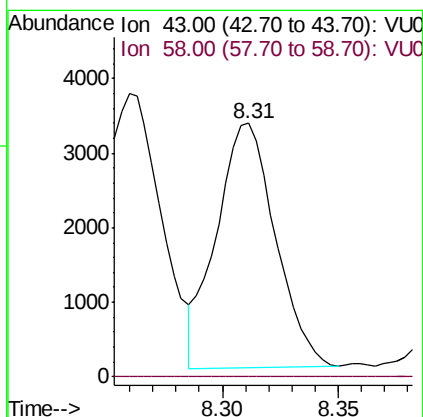
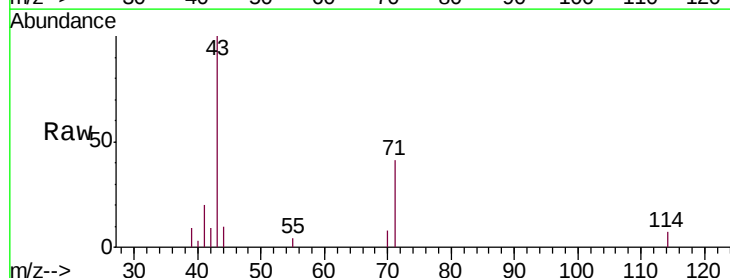
Instrument :
 MSVOA_U
 ClientSampleId :
 PL-01-011819-B

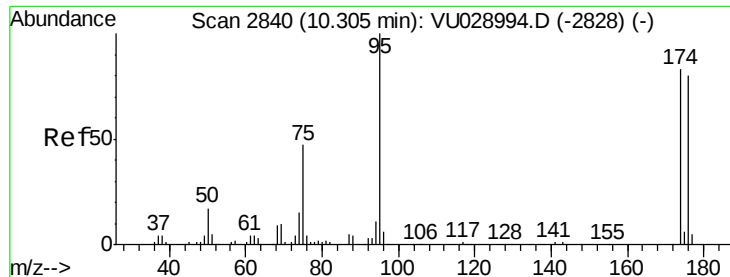
Tgt Ion: 76 Resp: 3221
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 3.319 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU029251.D
 Acq: 21 Jan 2019 16:08

Tgt Ion: 43 Resp: 5781
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#





#62

4-Bromofluorobenzene

Concen: 45.623 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

PL-01-011819-B

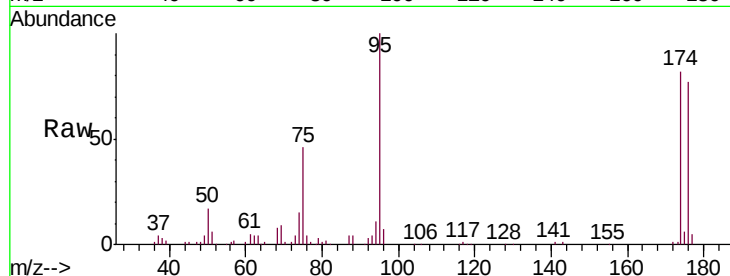
Tgt Ion: 95 Resp: 81296

Ion Ratio Lower Upper

95 100

174 84.1 0.0 170.6

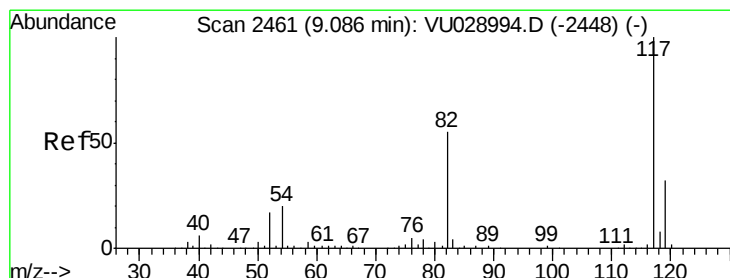
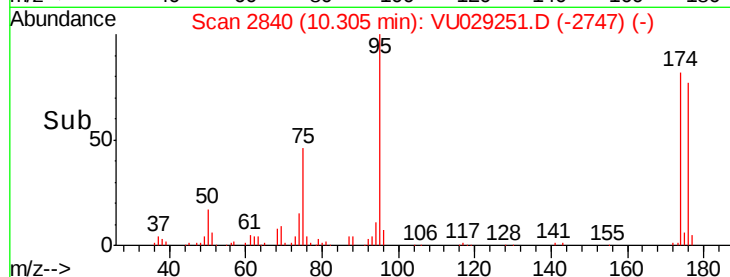
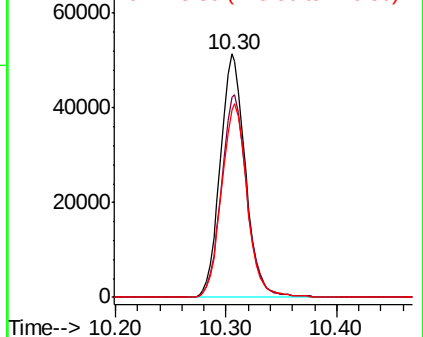
176 80.9 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

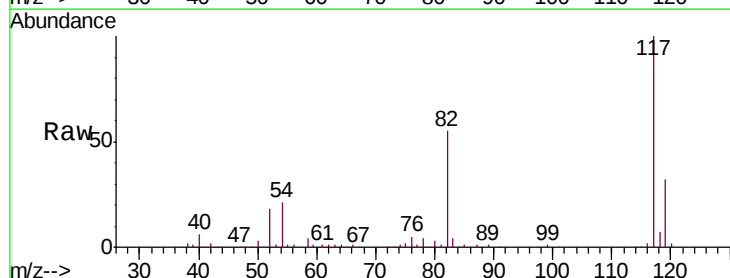
Tgt Ion: 117 Resp: 189558

Ion Ratio Lower Upper

117 100

82 55.5 43.9 65.9

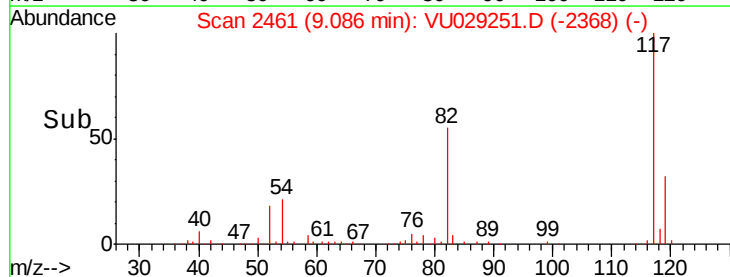
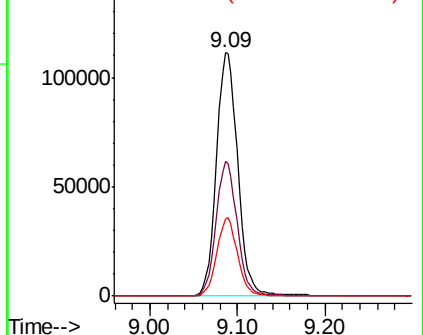
119 31.8 26.0 39.0

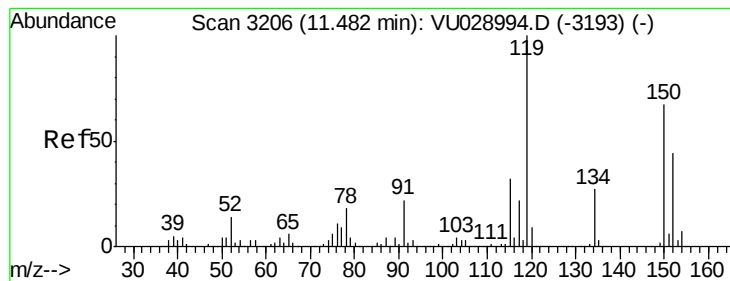


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU029251.D

Acq: 21 Jan 2019 16:08

Instrument :

MSVOA_U

ClientSampleId :

PL-01-011819-B

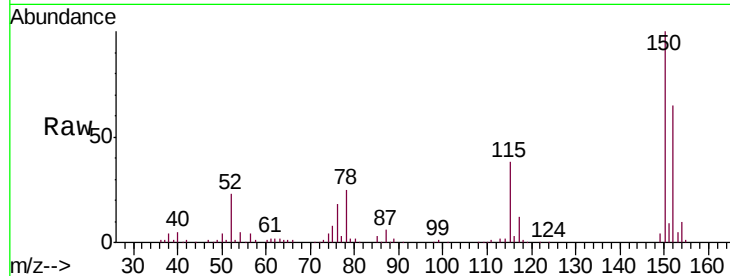
Tgt Ion:152 Resp: 71471

Ion Ratio Lower Upper

152 100

115 57.2 40.1 120.3

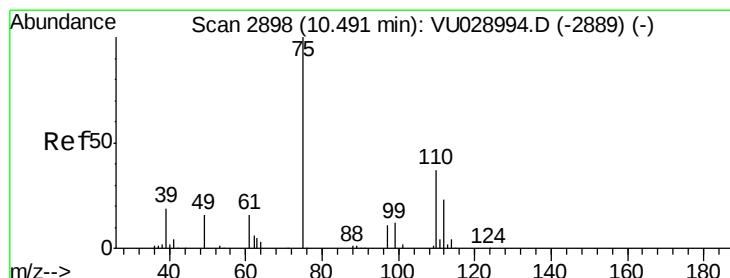
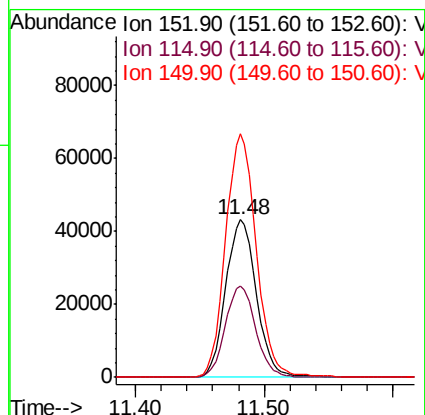
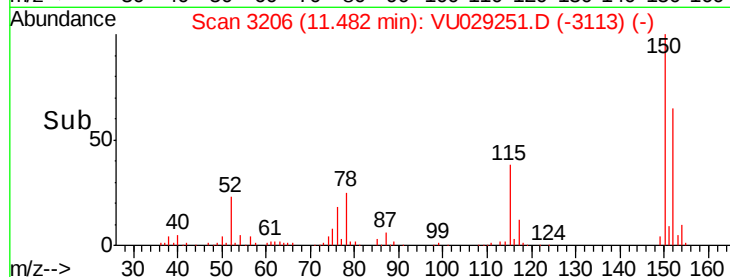
150 154.3 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.855 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029251.D

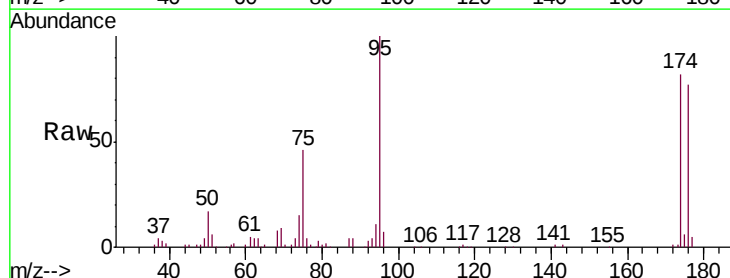
Acq: 21 Jan 2019 16:08

Tgt Ion: 75 Resp: 38271

Ion Ratio Lower Upper

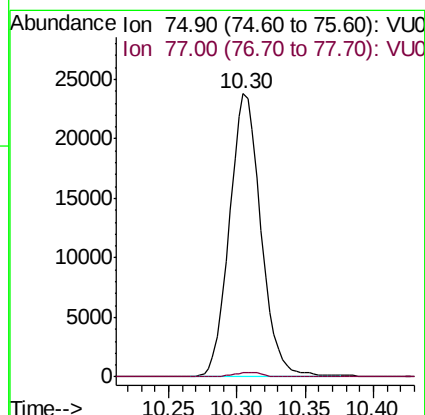
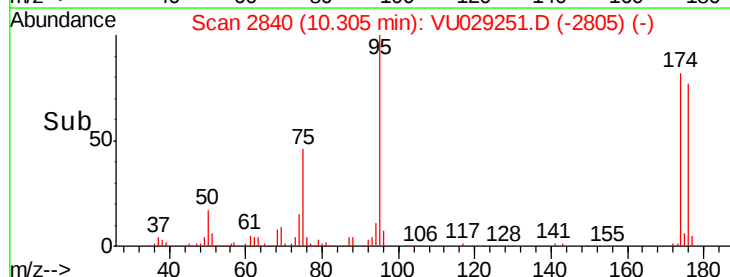
75 100

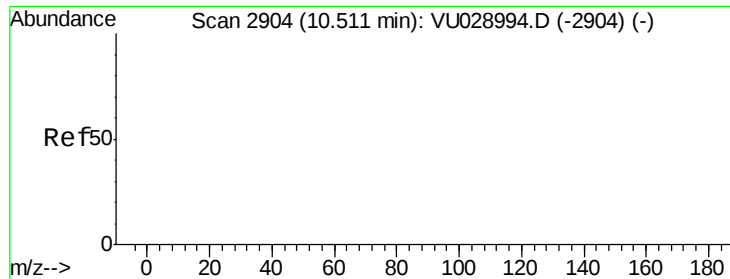
77 1.3 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

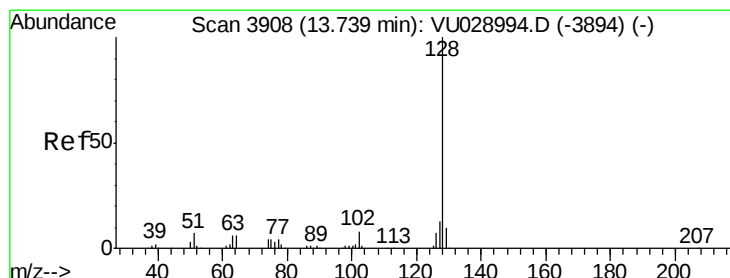
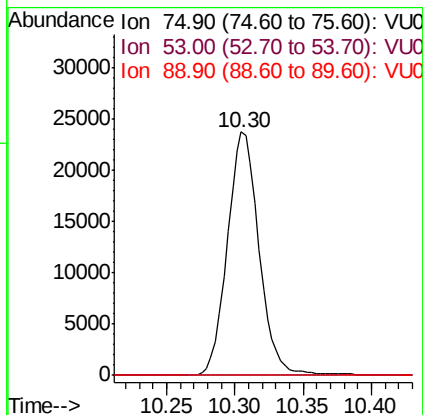
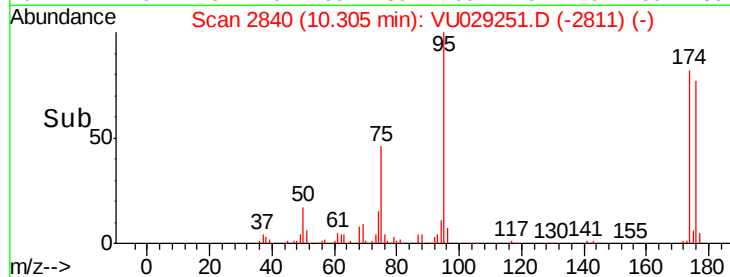
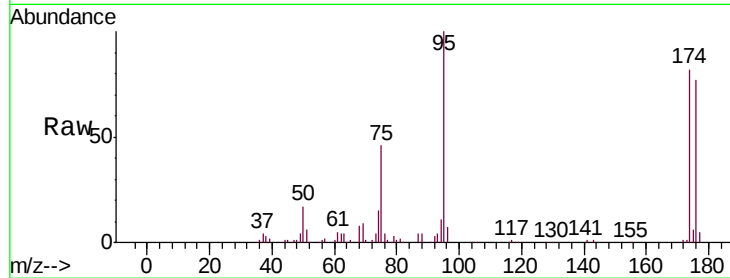




#81
trans-1,4-Dichloro-2-butene
Concen: 56.365 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.21 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-B

Tgt Ion: 75 Resp: 38271
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 3.266 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.01 min
Lab File: VU029251.D
Acq: 21 Jan 2019 16:08

Tgt Ion: 128 Resp: 18062
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 10.0 8.5 12.7

