

Data File : VU029253.D
Acq On : 21 Jan 2019 16:56
Operator : JC/SP
Sample : K1013-08
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

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

Quant Time: Jan 22 01:13:32 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	110427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	194258	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	184543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	74431	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	76087	55.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.48%	
35) Dibromofluoromethane	4.88	113	65465	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
50) Toluene-d8	7.56	98	253746	51.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.08%	
62) 4-Bromofluorobenzene	10.30	95	79383	44.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.86%	

Target Compounds

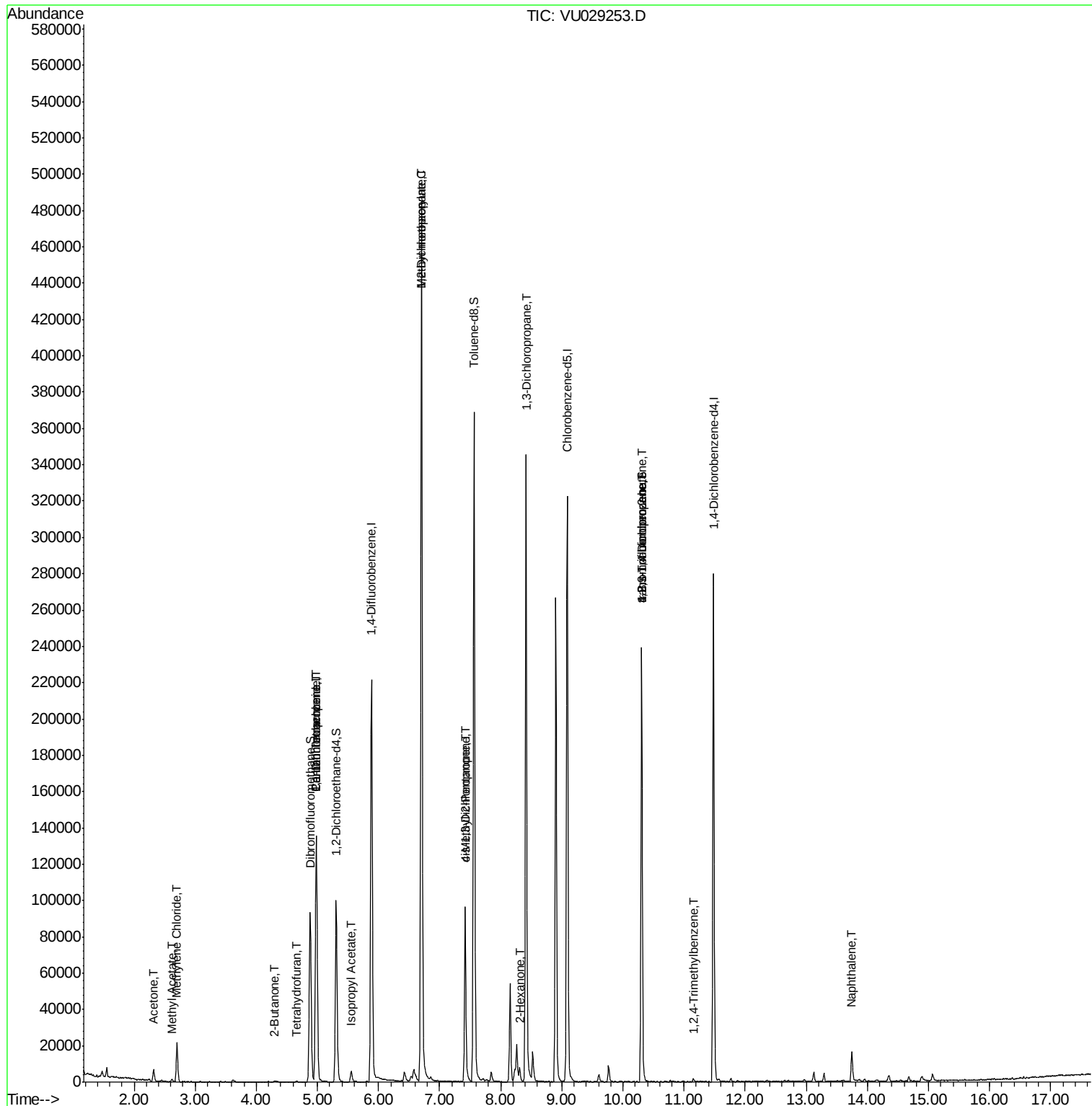
					Qvalue
3) Chloromethane	1.33	50	483	Below Cal	97
5) Bromomethane	1.56	94	19	Below Cal	# 2
16) Acetone	2.32	43	7520	8.745	ug/l 95
17) Carbon Disulfide	2.48	76	160	Below Cal	# 75
18) Methyl Acetate	2.62	43	1932	0.966	ug/l # 78
20) Methylene Chloride	2.70	84	9917	6.792	ug/l 99
25) 2-Butanone	4.30	43	562	0.484	ug/l # 47
29) Tetrahydrofuran	4.66	42	362	0.514	ug/l # 30
31) Cyclohexane	4.98	56	1947	Below Cal	# 1
36) 1,1-Dichloropropene	4.98	75	8056	4.149	ug/l # 46
38) Carbon Tetrachloride	4.98	117	10142	6.263	ug/l # 17
43) Isopropyl Acetate	5.56	43	7541	2.307	ug/l # 89
45) 1,2-Dichloropropane	6.70	63	531	0.332	ug/l # 43
48) Methyl methacrylate	6.70	41	42402	26.635	ug/l # 36
51) 4-Methyl-2-Pentanone	7.42	43	33720	15.155	ug/l # 43
54) cis-1,3-Dichloropropene	7.42	75	17544	7.180	ug/l # 61
57) 1,3-Dichloropropane	8.41	76	3362	1.330	ug/l # 42
59) 2-Hexanone	8.31	43	6038	3.457	ug/l # 21
76) 1,2,3-Trichloropropane	10.30	75	39043	21.409	ug/l # 36
81) trans-1,4-Dichloro-2-buten	10.30	75	39043	55.215	ug/l # 100
84) 1,2,4-Trimethylbenzene	11.15	105	991	0.216	ug/l 99
95) Naphthalene	13.75	128	16848	2.925	ug/l 98

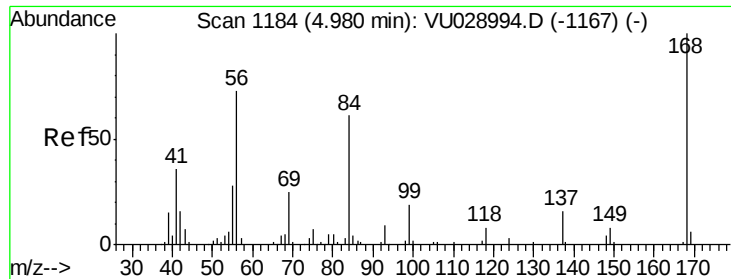
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

Instrument :

MSVOA_U

ClientSampleId :

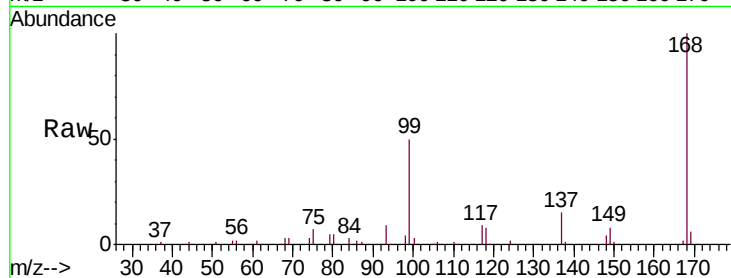
PL-01-011819-D

Tgt Ion:168 Resp: 110427

Ion Ratio Lower Upper

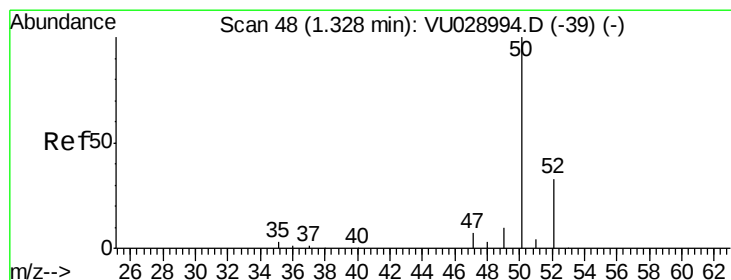
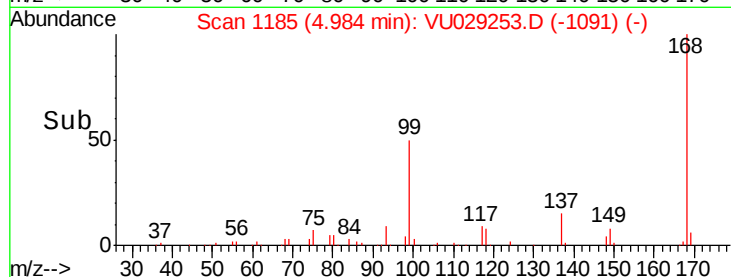
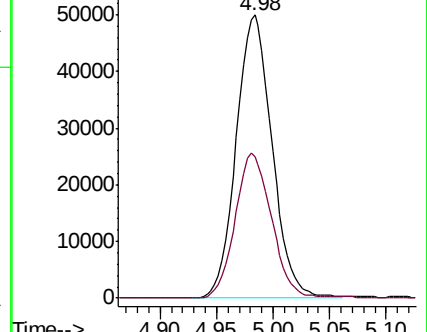
168 100

99 50.0 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) (-)



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029253.D

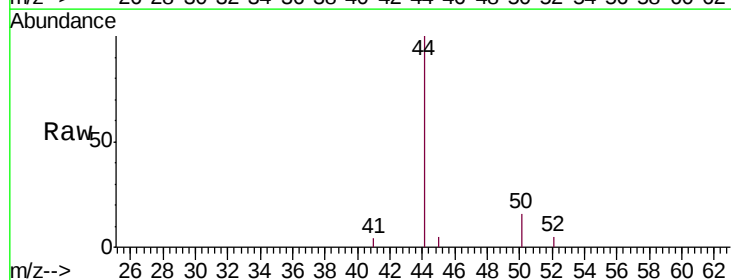
Acq: 21 Jan 2019 16:56

Tgt Ion: 50 Resp: 483

Ion Ratio Lower Upper

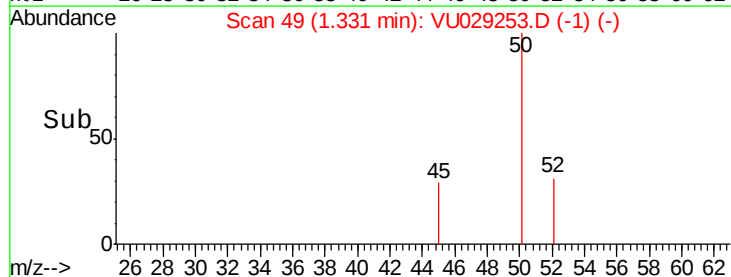
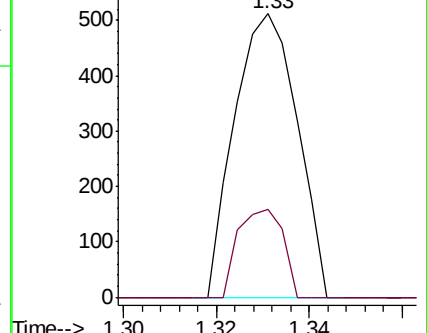
50 100

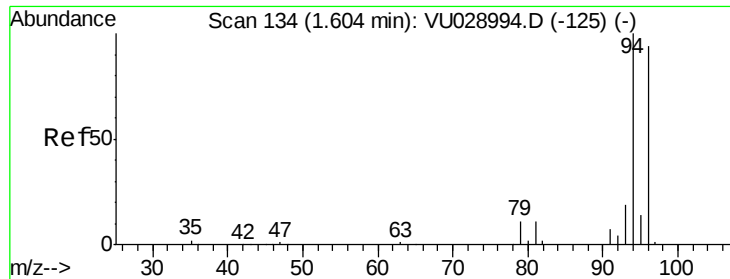
52 30.9 26.1 39.1



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

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





#5

Bromomethane

Concen: Below Cal

RT: 1.56 min Scan# 120

Delta R.T. -0.04 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

Instrument :

MSVOA_U

ClientSampleId :

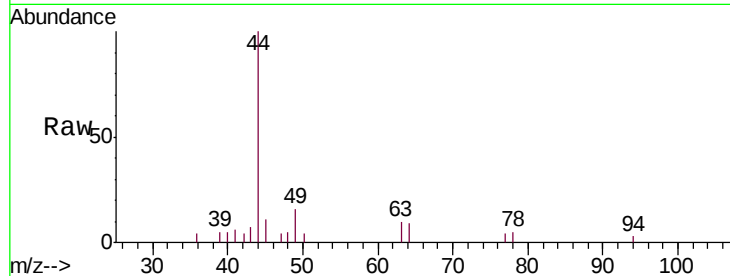
PL-01-011819-D

Tgt Ion: 94 Resp: 19

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

1.56

100

80

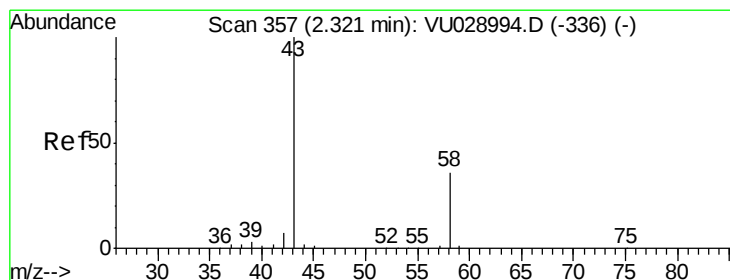
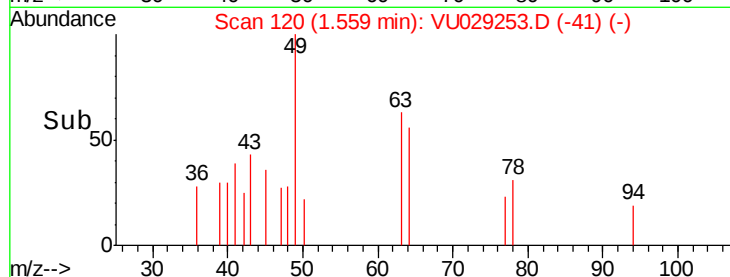
60

40

20

0

Time-->



#16

Acetone

Concen: 8.745 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU029253.D

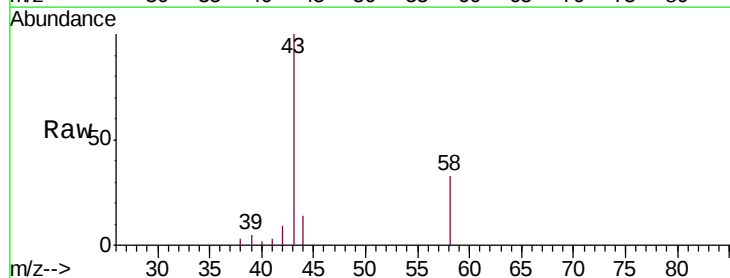
Acq: 21 Jan 2019 16:56

Tgt Ion: 43 Resp: 7520

Ion Ratio Lower Upper

43 100

58 33.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

5000

4000

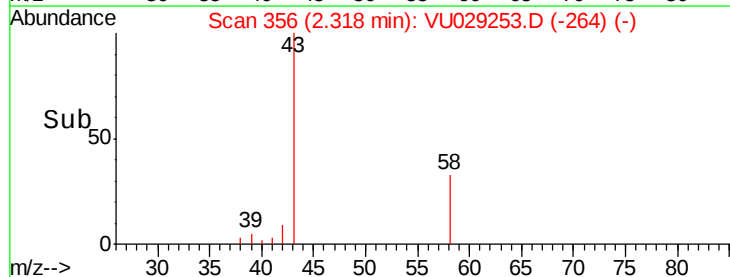
3000

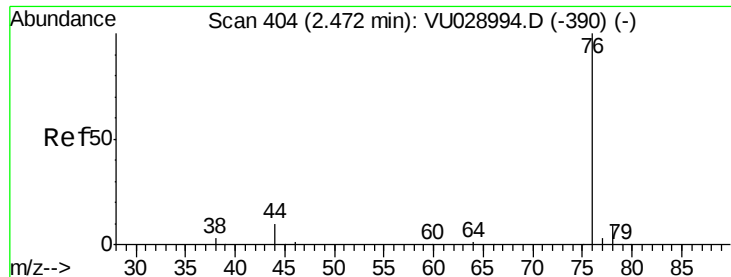
2000

1000

0

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

Instrument :

MSVOA_U

ClientSampleId :

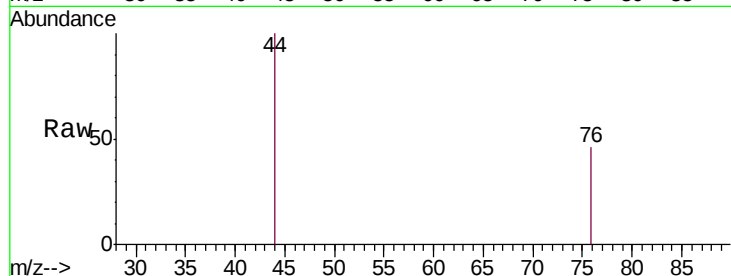
PL-01-011819-D

Tgt Ion: 76 Resp: 160

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

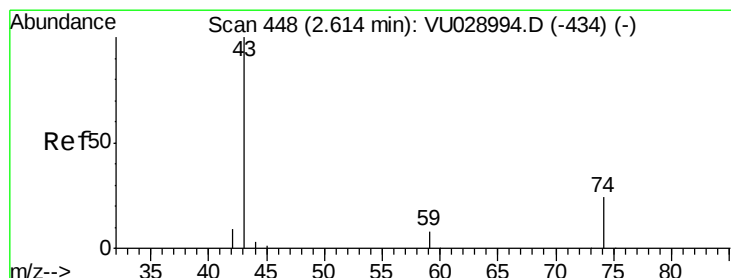
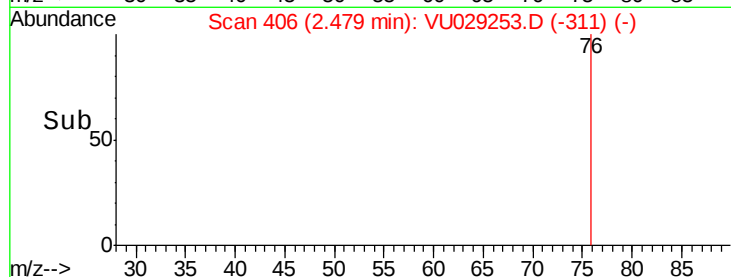
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.966 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU029253.D

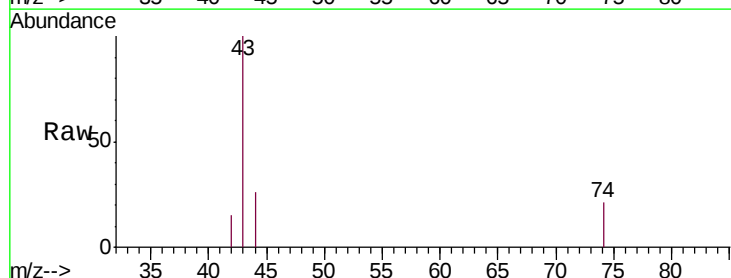
Acq: 21 Jan 2019 16:56

Tgt Ion: 43 Resp: 1932

Ion Ratio Lower Upper

43 100

74 13.3 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

1200

1000

800

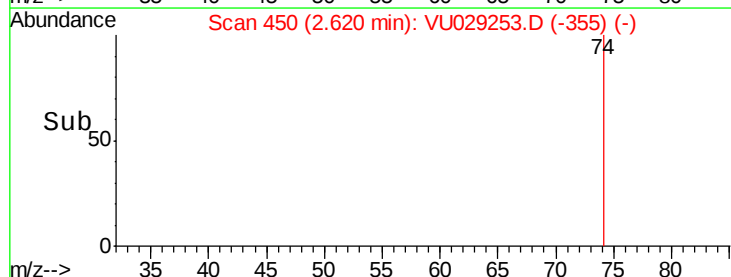
600

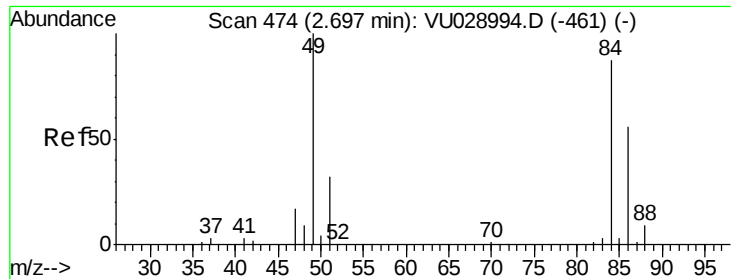
400

200

0

Time-->

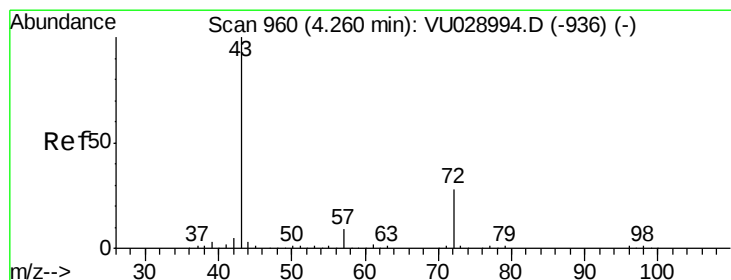
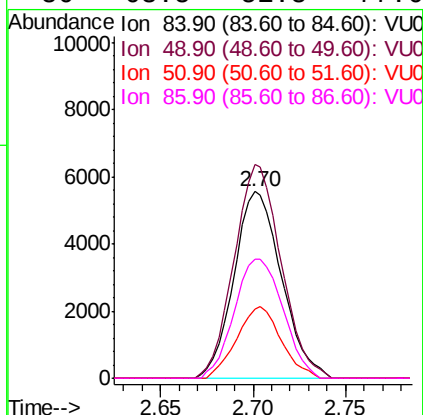
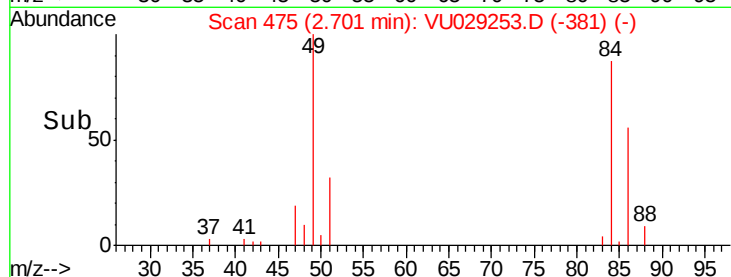
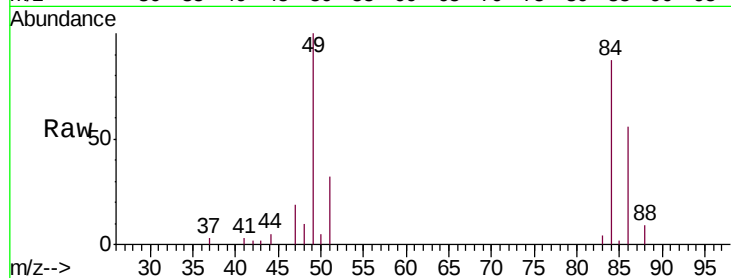




#20
Methylene Chloride
Concen: 6.792 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

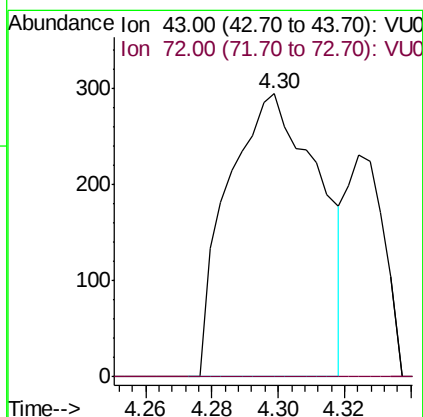
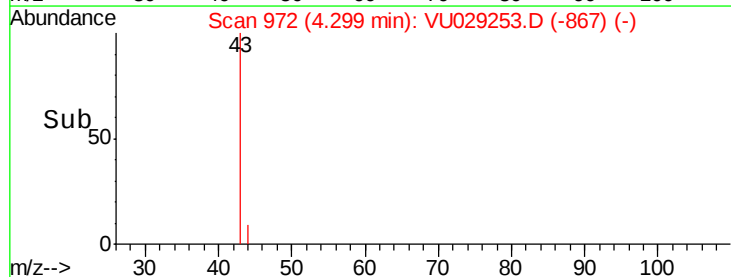
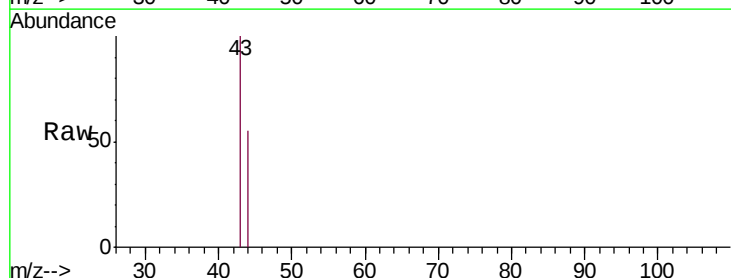
Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-D

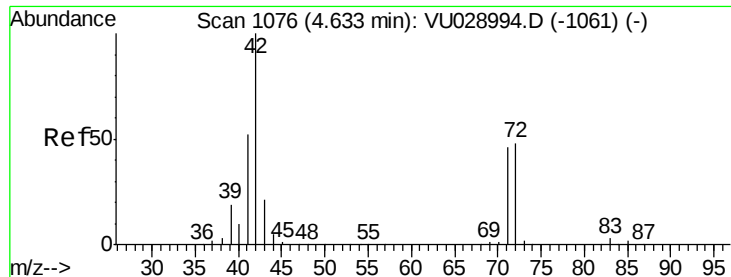
Tgt Ion:	84	Resp:	9917
Ion	Ratio	Lower	Upper
84	100		
49	114.3	91.9	137.9
51	37.2	29.2	43.8
86	63.5	51.8	77.6



#25
2-Butanone
Concen: 0.484 ug/l
RT: 4.30 min Scan# 972
Delta R.T. 0.04 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

Tgt Ion:	43	Resp:	562
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.6	33.8#





#29

Tetrahydrofuran

Concen: 0.514 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.03 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

Instrument :

MSVOA_U

ClientSampleId :

PL-01-011819-D

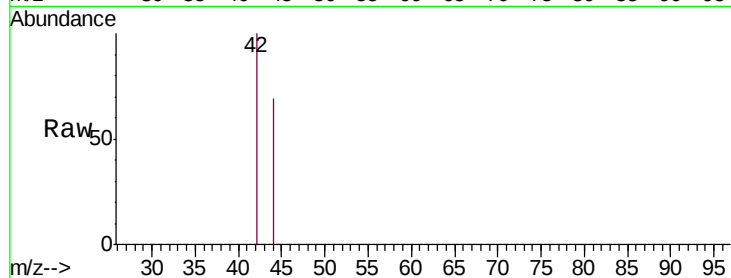
Tgt Ion: 42 Resp: 362

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

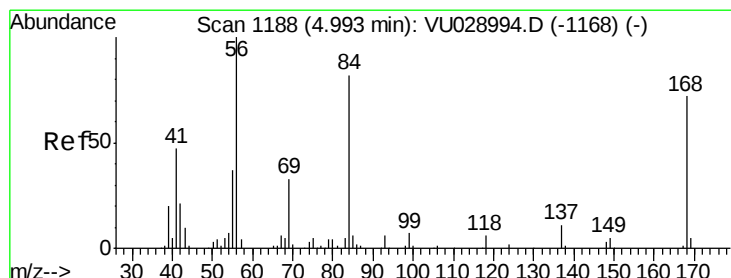
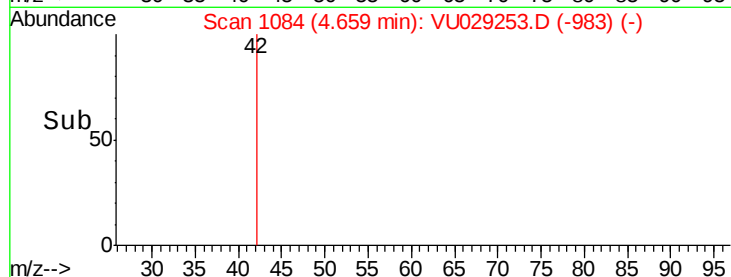
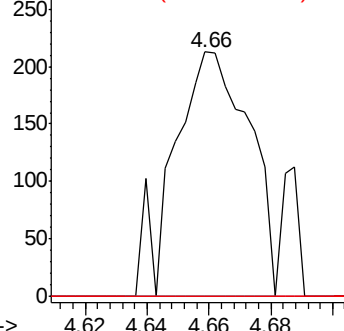
71 0.0 36.1 54.1#



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



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

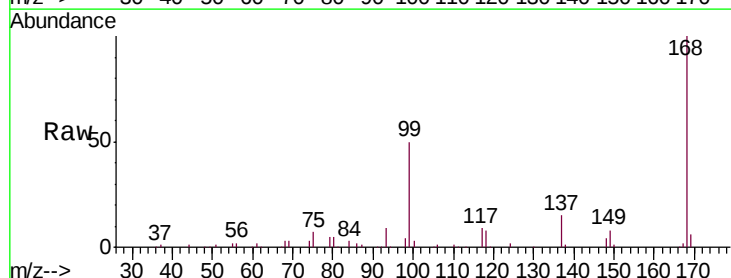
Tgt Ion: 56 Resp: 1947

Ion Ratio Lower Upper

56 100

69 173.7 26.7 40.1#

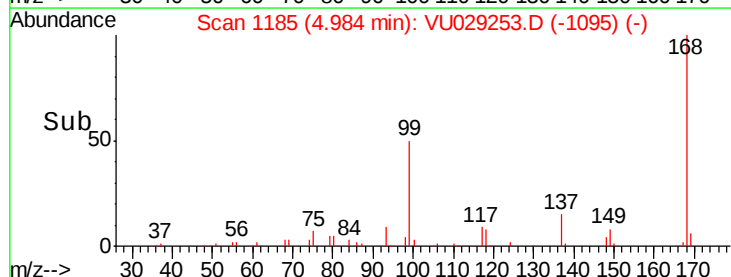
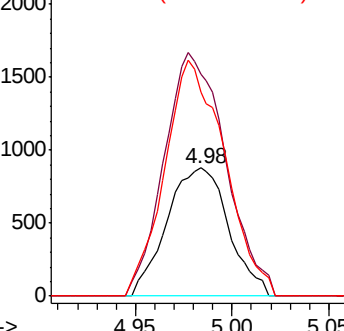
84 158.9 65.7 98.5#

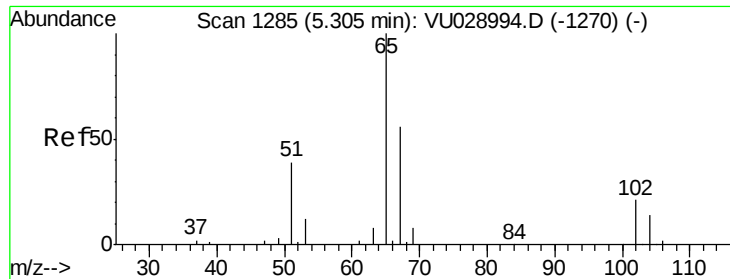


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

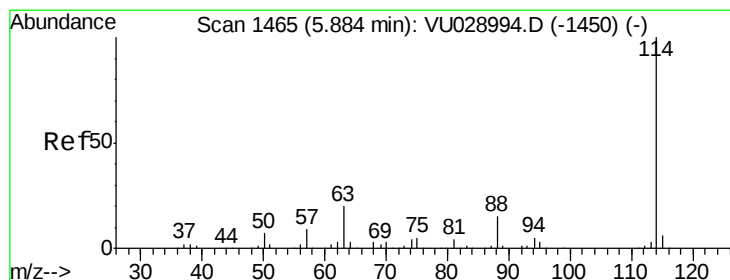
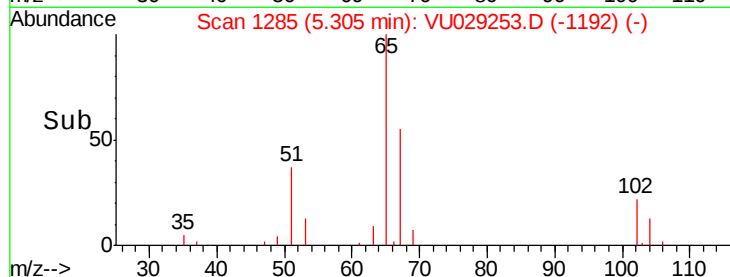
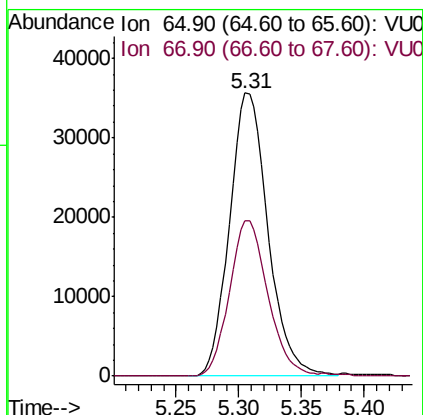
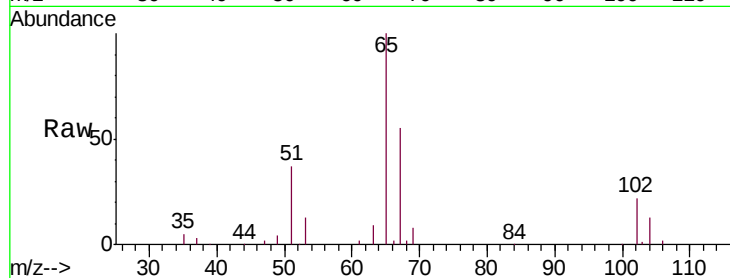




#33
 1,2-Dichloroethane-d4
 Concen: 55.738 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

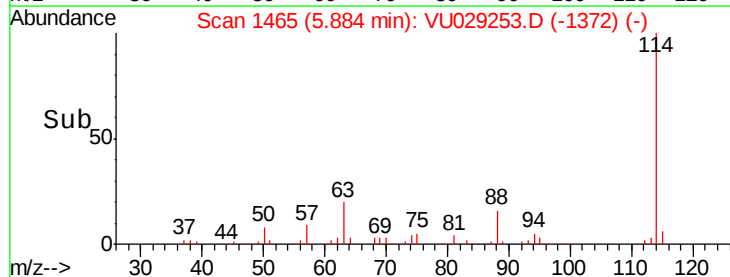
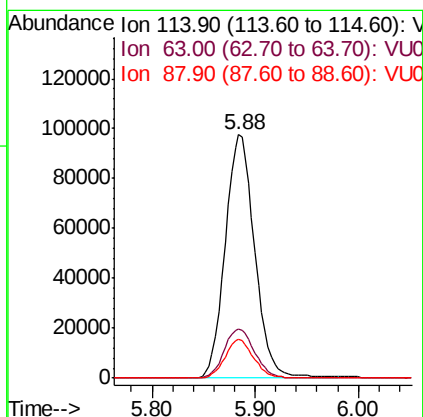
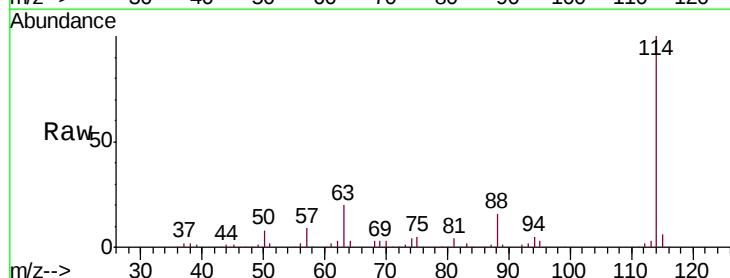
Instrument :
 MSVOA_U
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 PL-01-011819-D

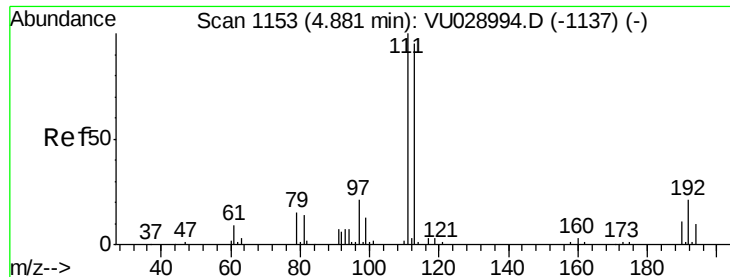
Tgt Ion: 65 Resp: 76087
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

Tgt Ion: 114 Resp: 194258
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.2
 88 16.1 0.0 30.4

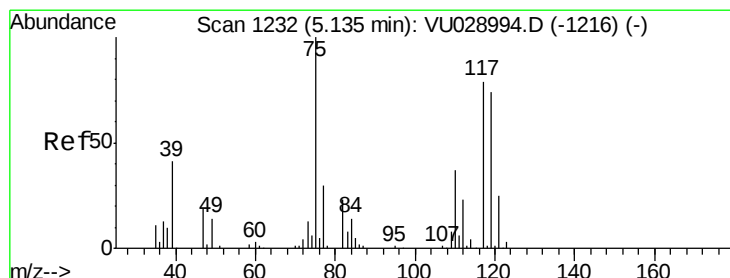
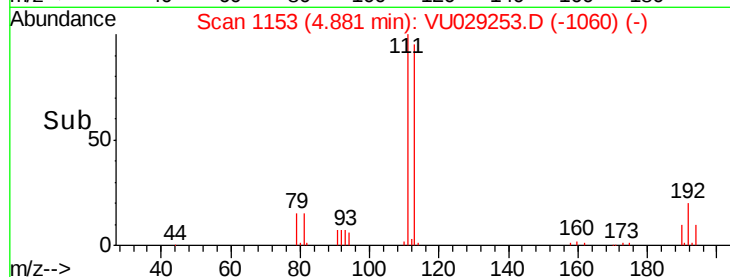
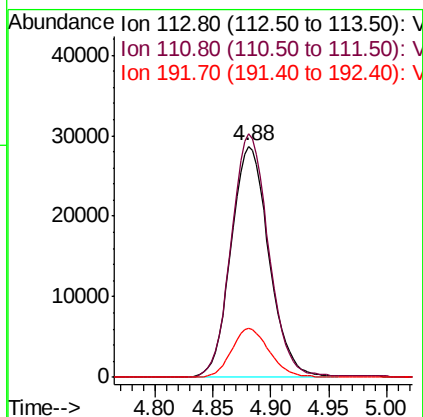
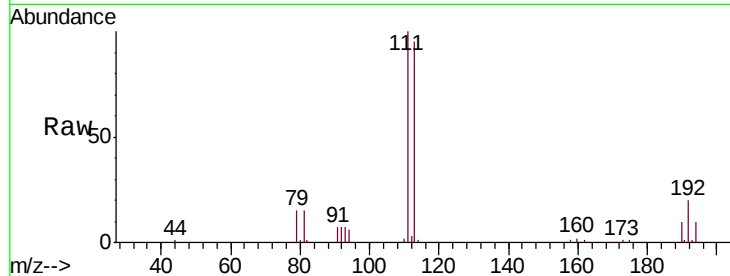




#35
 Dibromofluoromethane
 Concen: 51.988 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

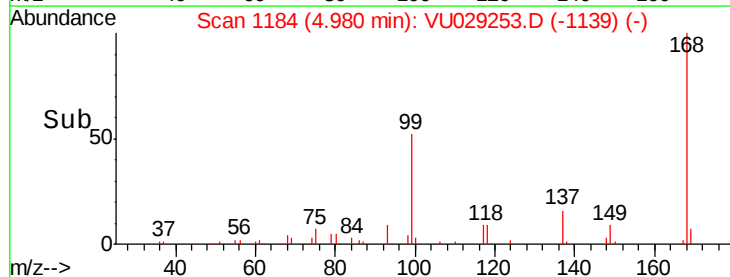
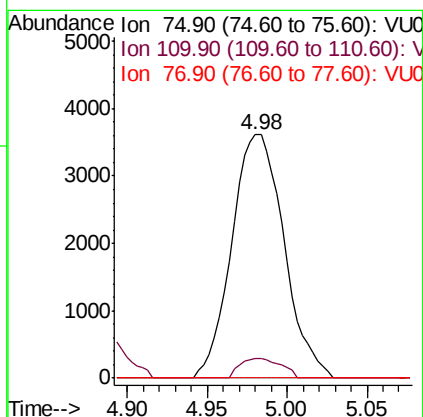
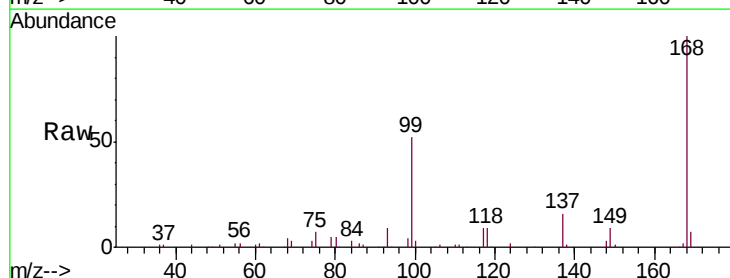
Instrument :
 MSVOA_U
 ClientSampleId :
 PL-01-011819-D

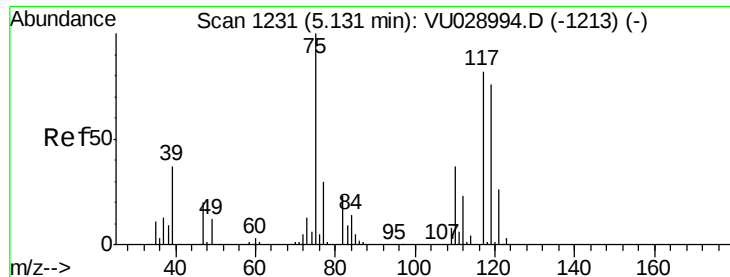
Tgt Ion:113 Resp: 65465
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.4 122.2
 192 20.8 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 4.149 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

Tgt Ion: 75 Resp: 8056
 Ion Ratio Lower Upper
 75 100
 110 6.3 18.4 55.4#
 77 0.0 25.1 37.7#

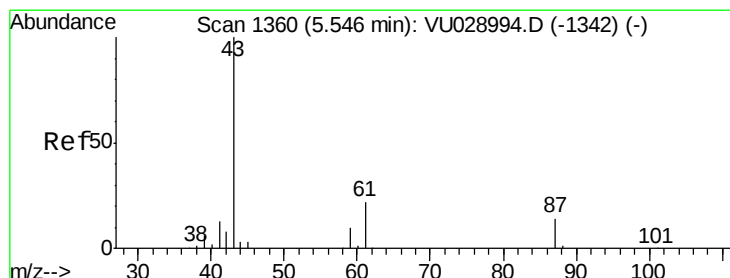
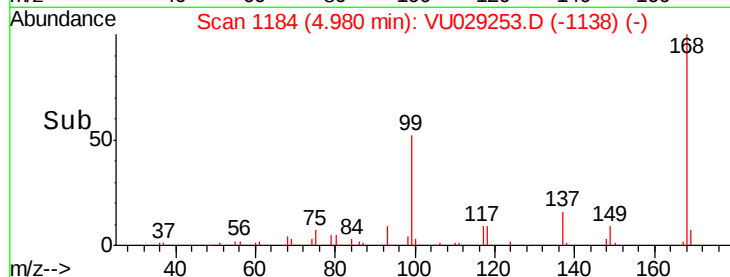
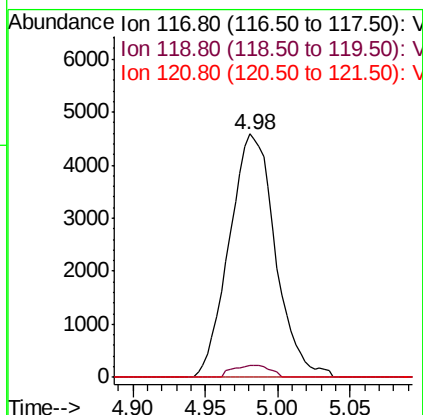
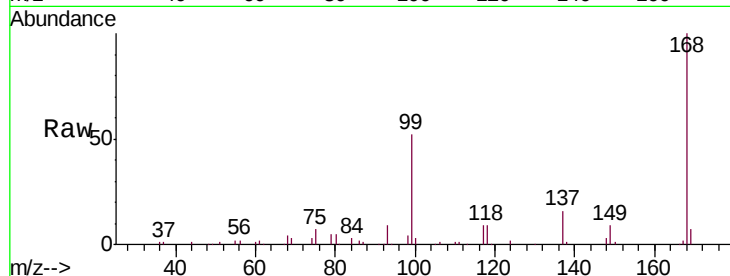




#38
Carbon Tetrachloride
Concen: 6.263 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.15 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

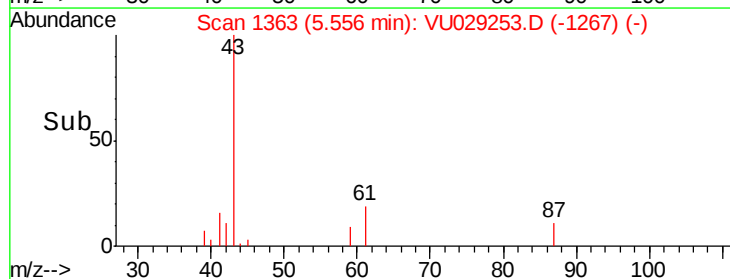
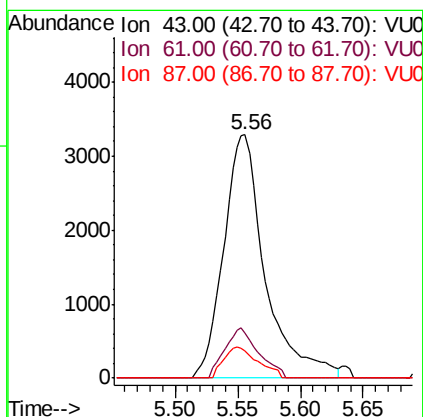
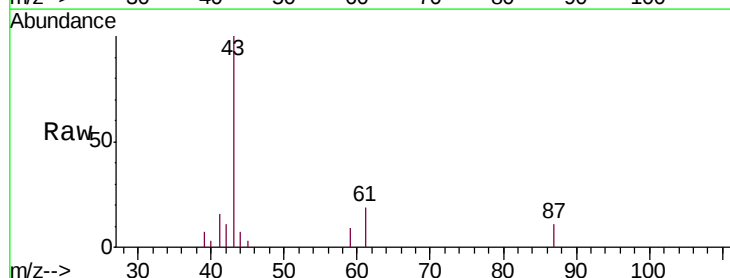
Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-D

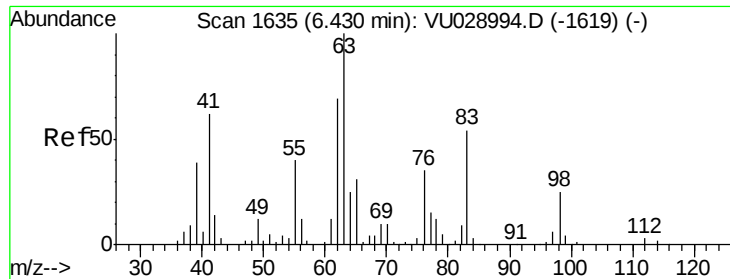
Tgt Ion: 117 Resp: 10142
Ion Ratio Lower Upper
117 100
119 5.0 74.6 111.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.307 ug/l
RT: 5.56 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

Tgt Ion: 43 Resp: 7541
Ion Ratio Lower Upper
43 100
61 16.7 17.8 26.6#
87 10.4 11.3 16.9#

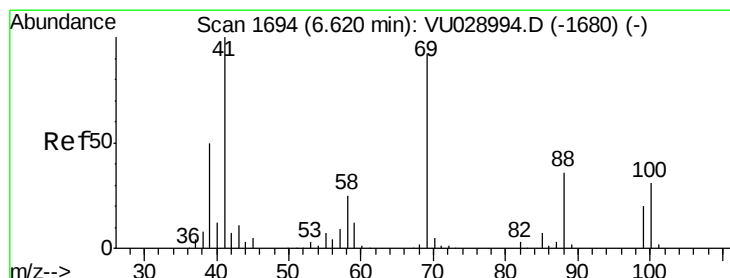
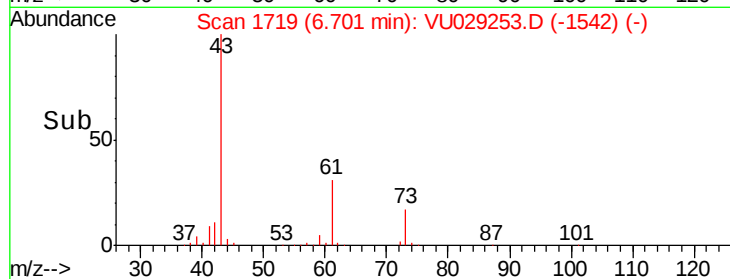
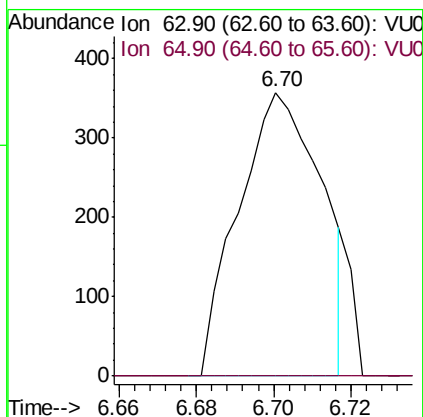
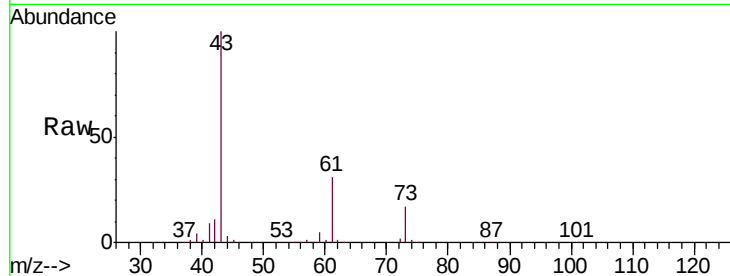




#45
 1,2-Dichloropropane
 Concen: 0.332 ug/l
 RT: 6.70 min Scan# 1719
 Delta R.T. 0.27 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

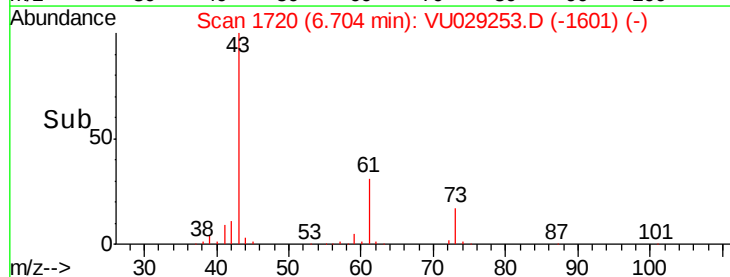
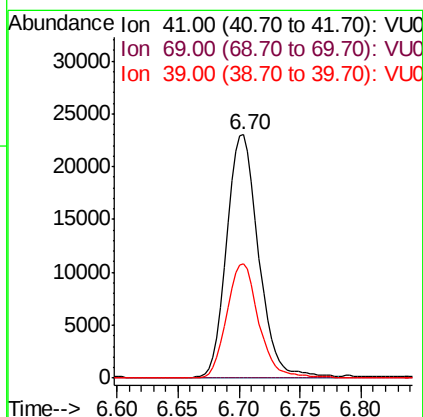
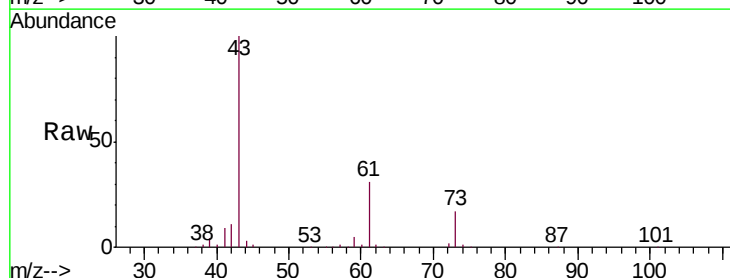
Instrument :
 MSVOA_U
 ClientSampleId :
 PL-01-011819-D

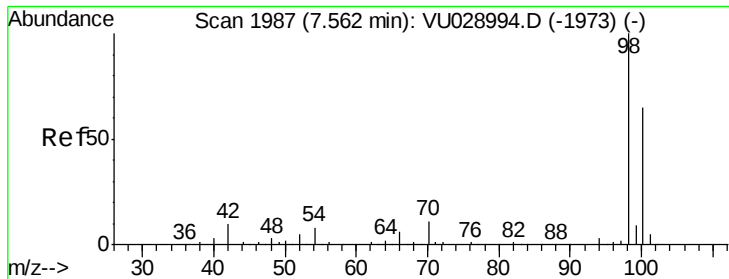
Tgt Ion: 63 Resp: 531
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 26.635 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.08 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

Tgt Ion: 41 Resp: 42402
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.6 110.4#
 39 47.2 39.6 59.4





#50

Toluene-d8

Concen: 51.042 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

Instrument :

MSVOA_U

ClientSampleId :

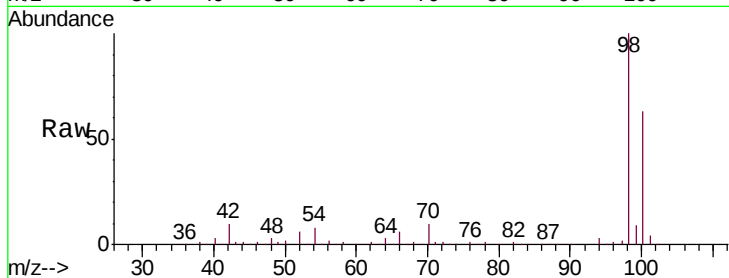
PL-01-011819-D

Tgt Ion: 98 Resp: 253746

Ion Ratio Lower Upper

98 100

100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028994.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028994.D (-1973) (-)

7.56

150000

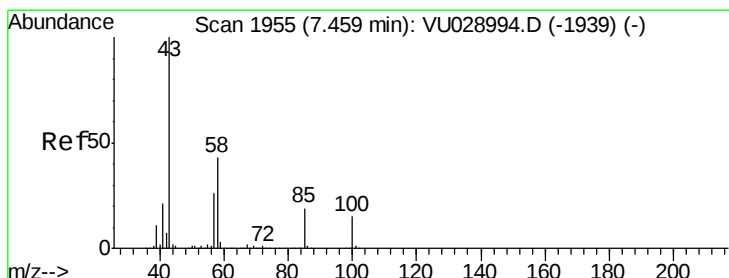
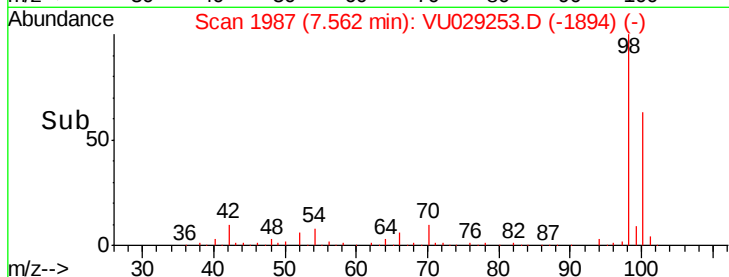
100000

50000

0

7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 15.155 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. -0.04 min

Lab File: VU029253.D

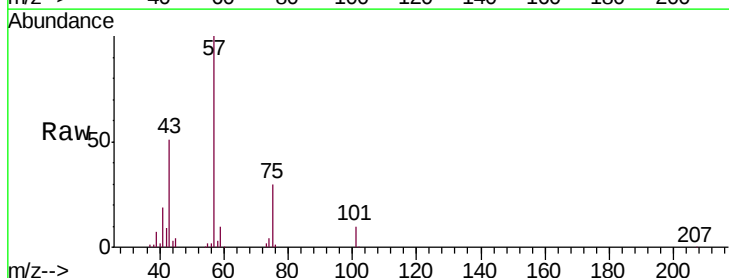
Acq: 21 Jan 2019 16:56

Tgt Ion: 43 Resp: 33720

Ion Ratio Lower Upper

43 100

58 6.3 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-1939) (-)

7.42

20000

15000

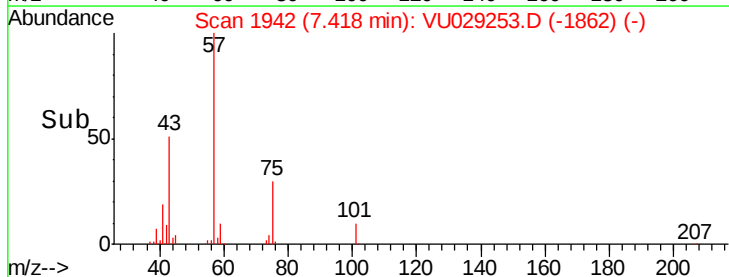
10000

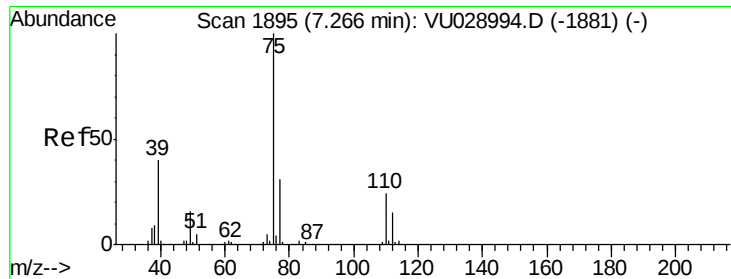
5000

0

7.35 7.40 7.45 7.50

Time-->





#54

cis-1,3-Dichloropropene

Concen: 7.180 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029253.D

Acq: 21 Jan 2019 16:56

Instrument :

MSVOA_U

ClientSampleId :

PL-01-011819-D

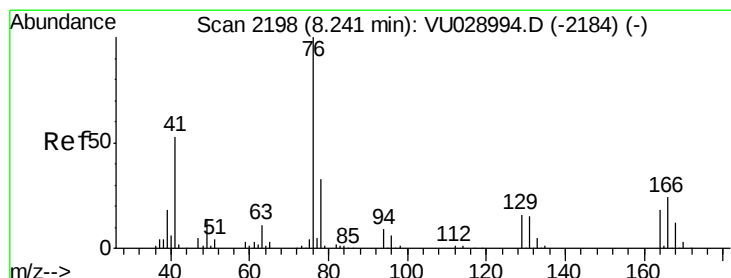
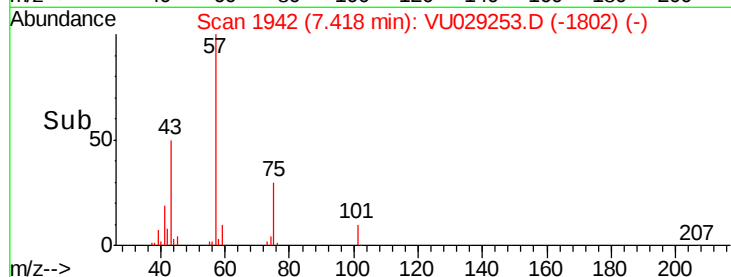
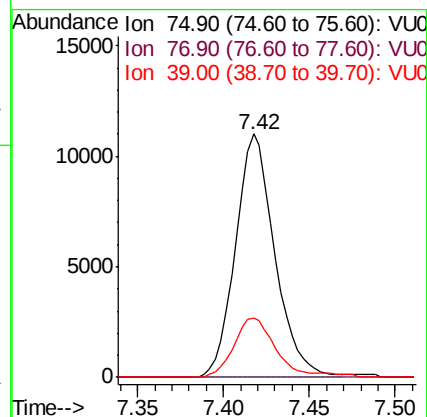
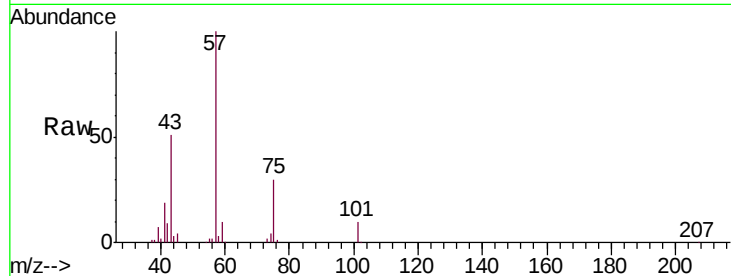
Tgt Ion: 75 Resp: 17544

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 24.5 32.2 48.4#



#57

1,3-Dichloropropane

Concen: 1.330 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029253.D

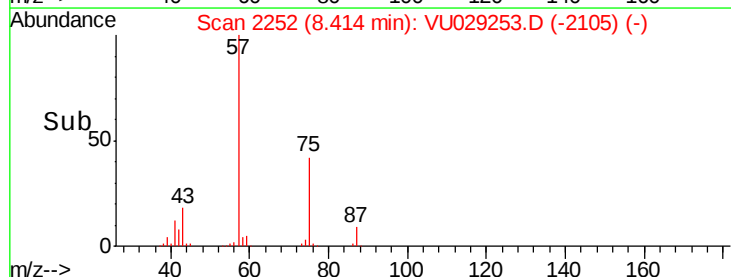
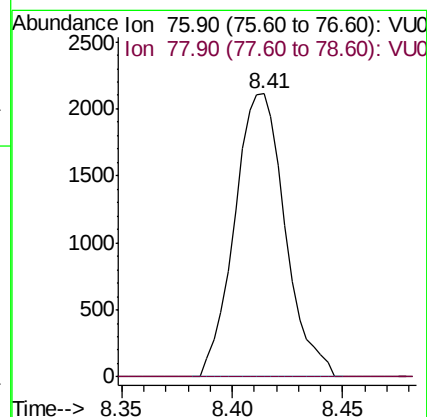
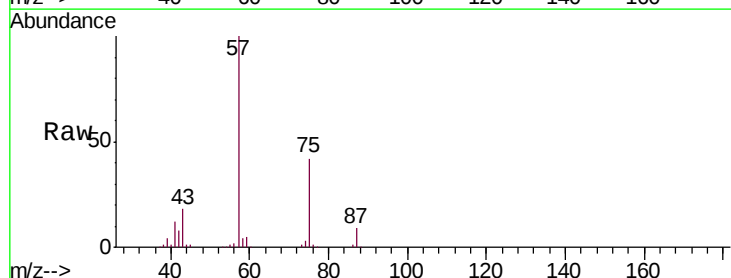
Acq: 21 Jan 2019 16:56

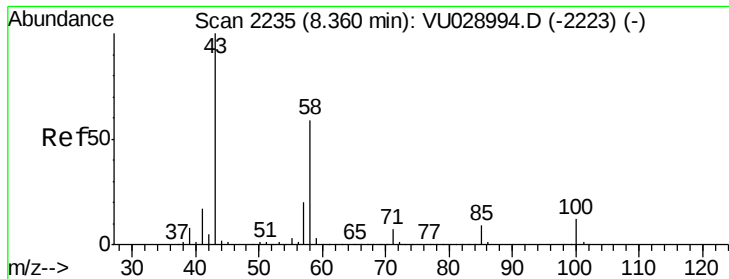
Tgt Ion: 76 Resp: 3362

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

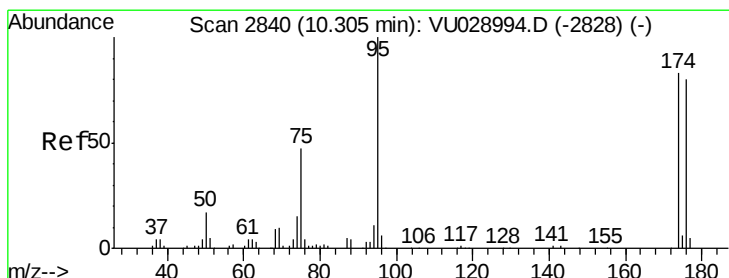
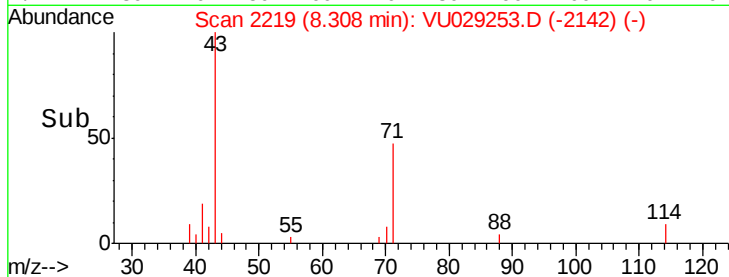
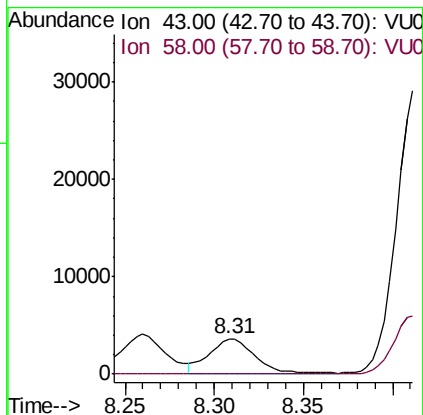
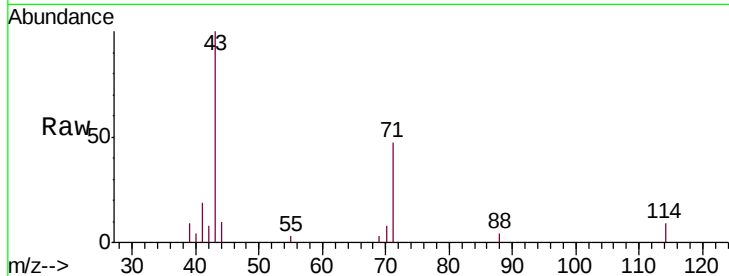




#59
2-Hexanone
Concen: 3.457 ug/l
RT: 8.31 min Scan# 2219
Delta R.T. -0.05 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

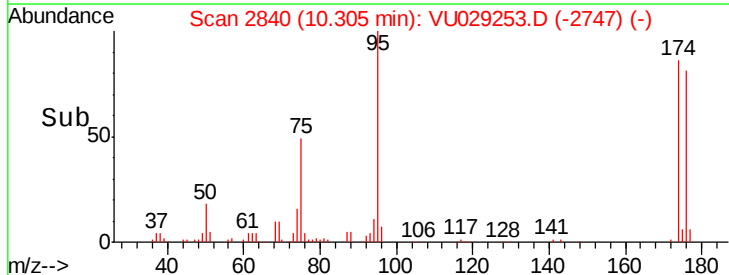
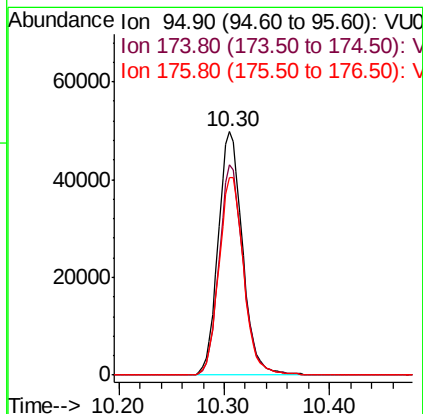
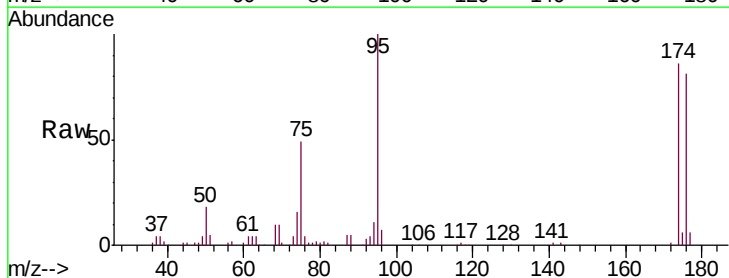
Instrument :
MSVOA_U
ClientSampleId :
PL-01-011819-D

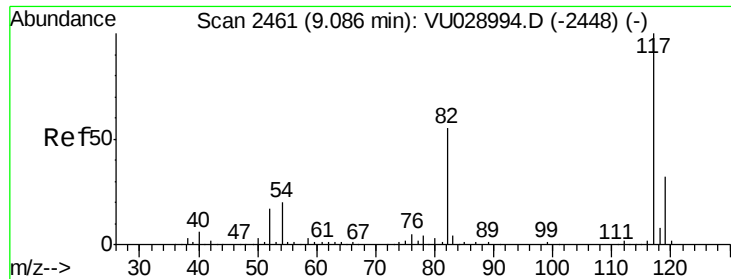
Tgt Ion: 43 Resp: 6038
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 44.433 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

Tgt Ion: 95 Resp: 79383
Ion Ratio Lower Upper
95 100
174 85.4 0.0 170.6
176 82.5 0.0 165.0

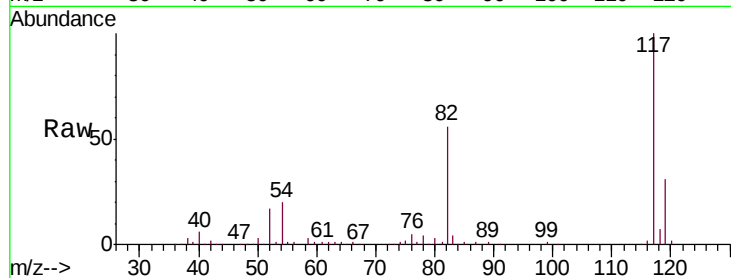




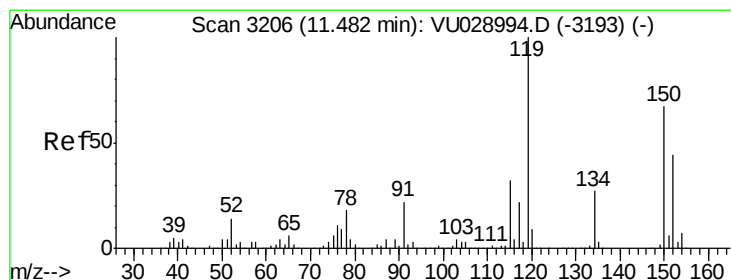
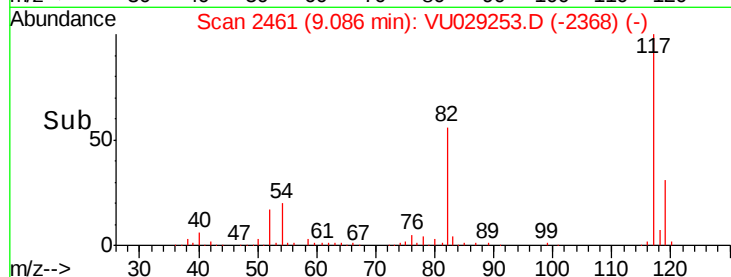
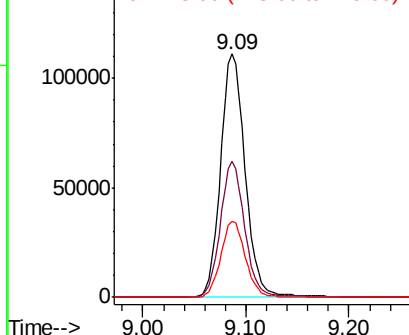
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

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

Tgt Ion:117 Resp: 184543
Ion Ratio Lower Upper
117 100
82 55.7 43.9 65.9
119 31.4 26.0 39.0

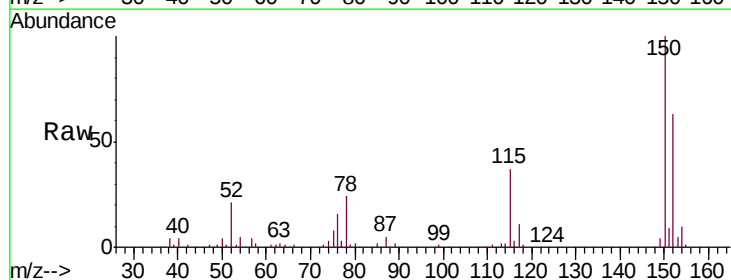


Abundance Ion 116.90 (116.60 to 117.60): V
150000 Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

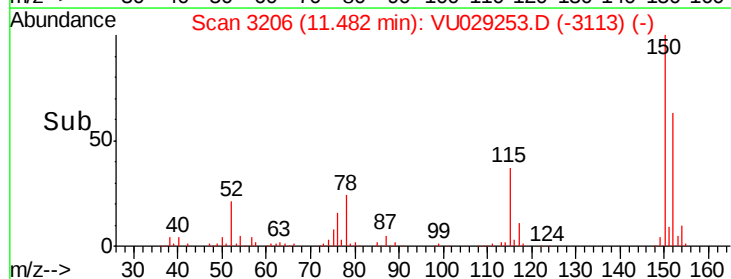
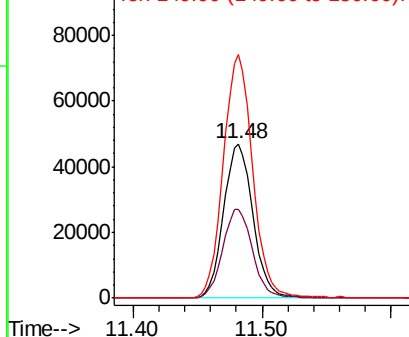


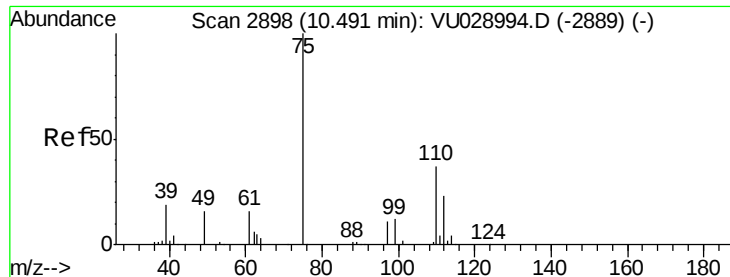
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029253.D
Acq: 21 Jan 2019 16:56

Tgt Ion:152 Resp: 74431
Ion Ratio Lower Upper
152 100
115 58.2 40.1 120.3
150 157.2 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V
100000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

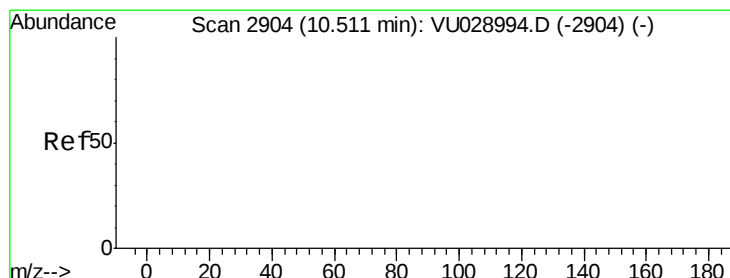
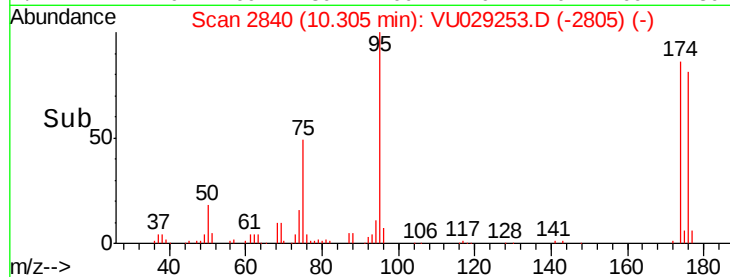
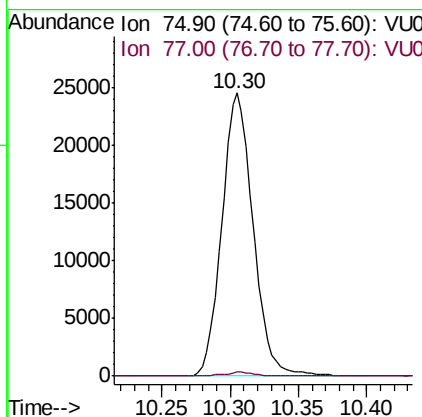
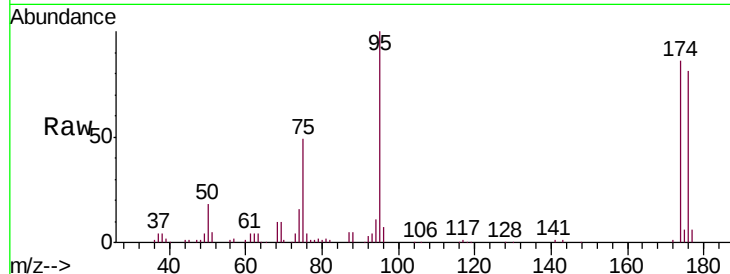




#76
 1,2,3-Trichloropropane
 Concen: 21.409 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

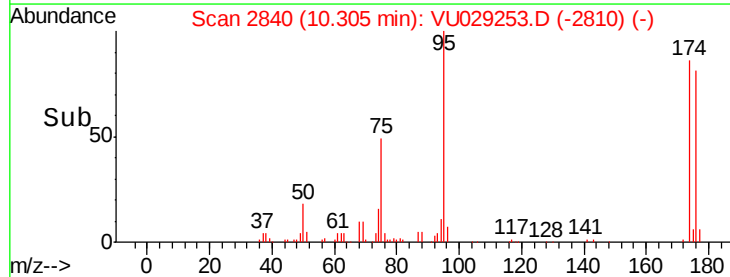
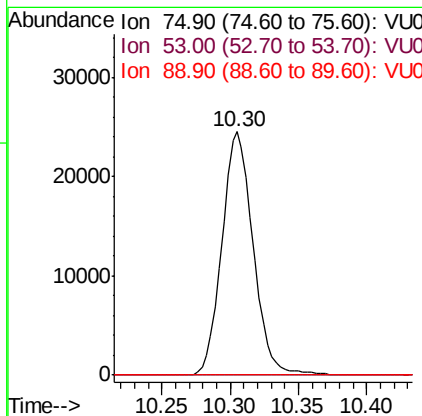
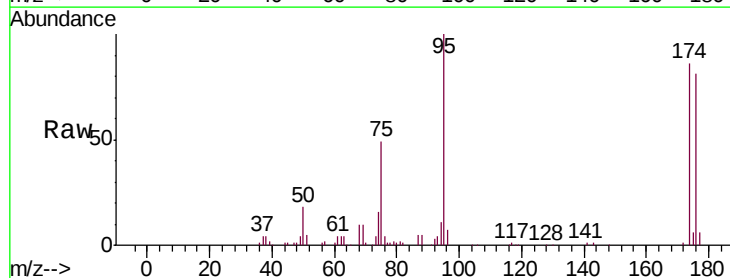
Instrument :
 MSVOA_U
 ClientSampleId :
 PL-01-011819-D

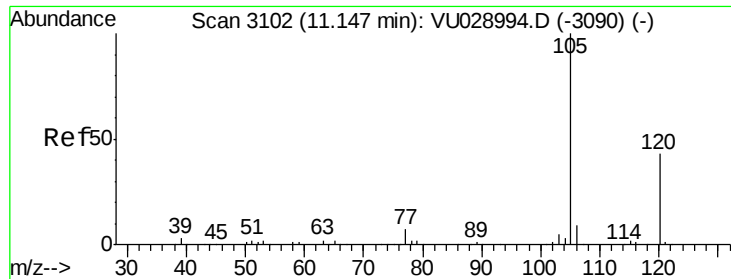
Tgt Ion: 75 Resp: 39043
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.215 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

Tgt Ion: 75 Resp: 39043
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

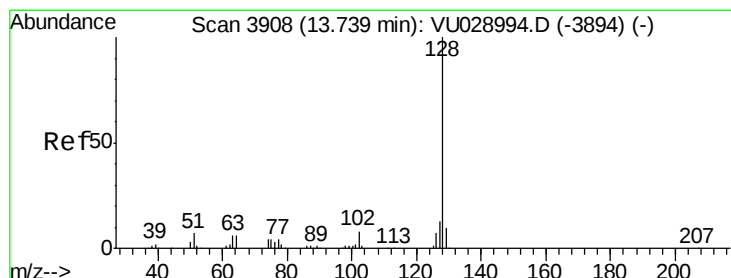
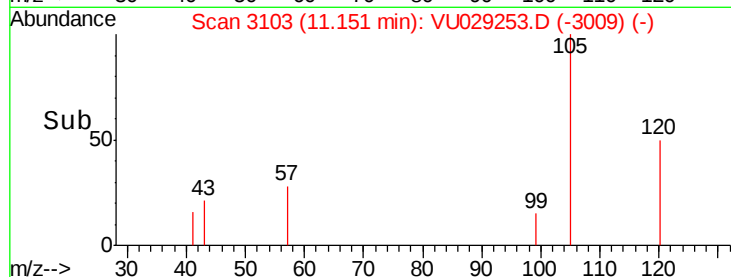
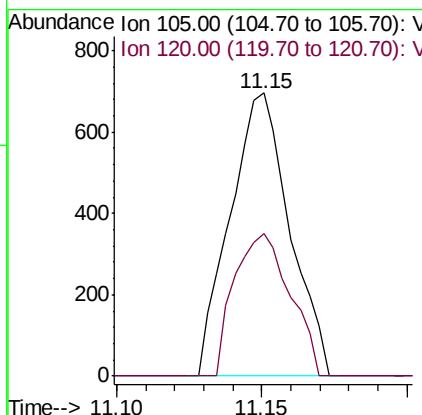
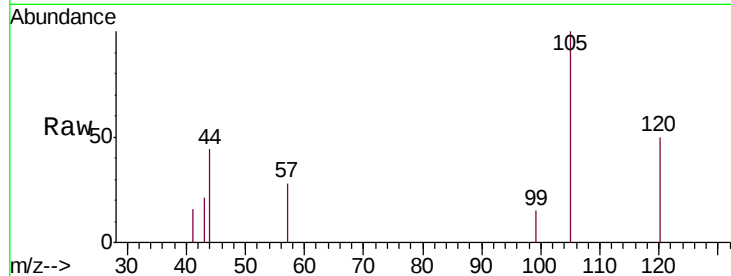




#84
 1,2,4-Trimethylbenzene
 Concen: 0.216 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

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

Tgt Ion:105 Resp: 991
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.1 69.3



#95
 Naphthalene
 Concen: 2.925 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.01 min
 Lab File: VU029253.D
 Acq: 21 Jan 2019 16:56

Tgt Ion:128 Resp: 16848
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.1 15.1
 129 9.5 8.5 12.7

