

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029099.D
 Acq On : 09 Jan 2019 19:03
 Operator : MD/SY
 Sample : PB116248ZHE#14
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:07:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	106828	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	189509	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	178428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	67785	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	73944	55.99	ug/l	0.00
Spiked Amount			Recovery	=	111.98%	
35) Dibromofluoromethane	4.88	113	65374	53.22	ug/l	0.00
Spiked Amount			Recovery	=	106.44%	
50) Toluene-d8	7.57	98	241517	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	10.31	95	74670	42.84	ug/l	0.00
Spiked Amount			Recovery	=	85.68%	

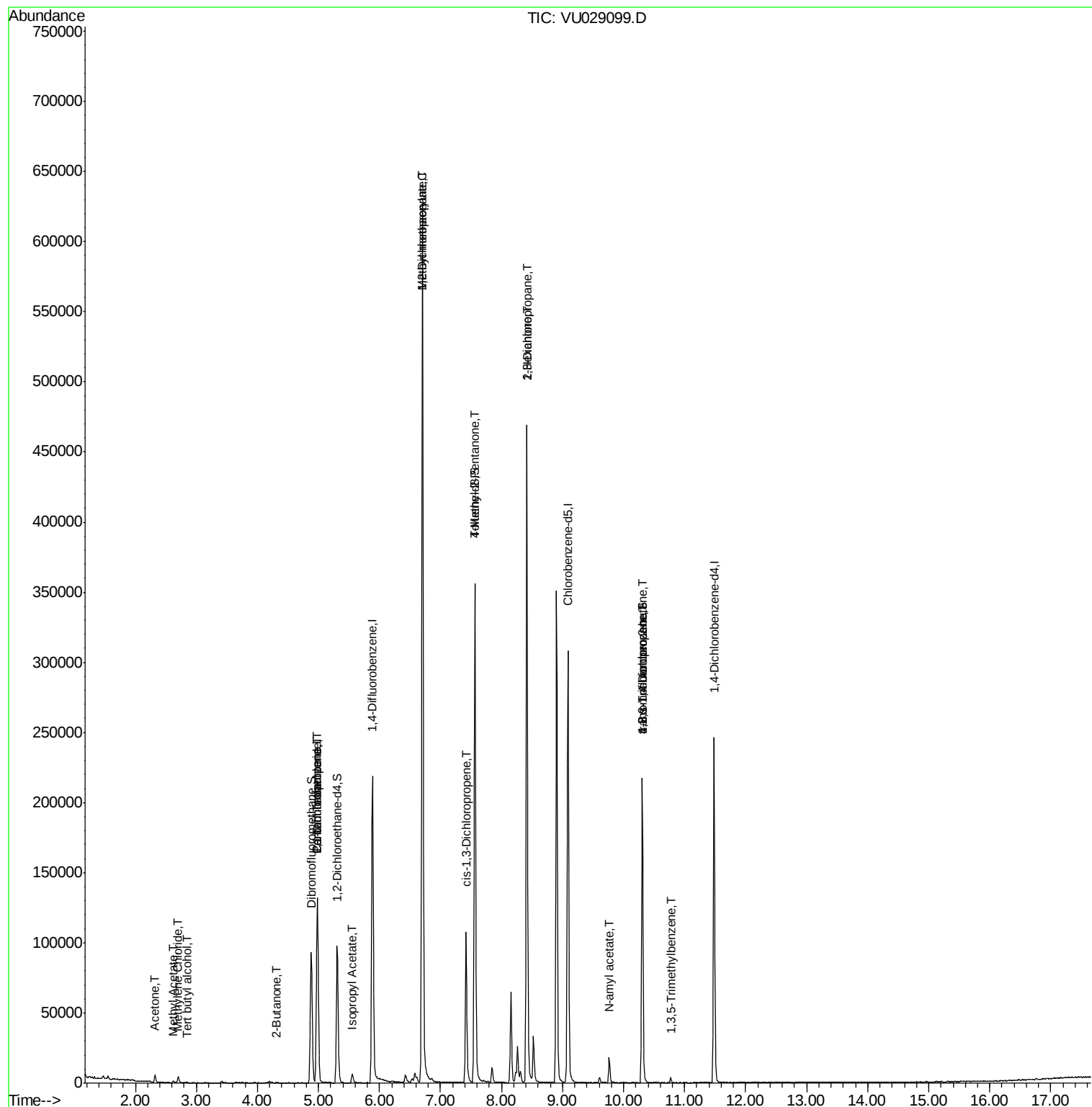
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	718	Below Cal		95
5) Bromomethane	1.56	94	64	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	250	0.745	ug/l #	73
16) Acetone	2.32	43	5465	6.569	ug/l	95
18) Methyl Acetate	2.62	43	1954	1.010	ug/l #	90
20) Methylene Chloride	2.70	84	1977	1.400	ug/l	95
25) 2-Butanone	4.31	43	245	0.218	ug/l #	47
31) Cyclohexane	4.99	56	1970	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7953	4.199	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9519	6.025	ug/l #	19
43) Isopropyl Acetate	5.55	43	8125	2.547	ug/l #	92
45) 1,2-Dichloropropane	6.70	63	699	0.448	ug/l #	43
48) Methyl methacrylate	6.70	41	53456	34.420	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	3927	1.809	ug/l	91
54) cis-1,3-Dichloropropene	7.42	75	20105	8.434	ug/l #	62
57) 1,3-Dichloropropane	8.41	76	4903	1.988	ug/l #	42
59) 2-Hexanone	8.41	43	62242	36.530	ug/l #	51
74) N-amyl acetate	9.76	43	5809	2.687	ug/l #	49
76) 1,2,3-Trichloropropane	10.30	75	35700	21.495	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2606	0.622	ug/l	96
81) trans-1,4-Dichloro-2-buten	10.30	75	35700	55.437	ug/l #	100

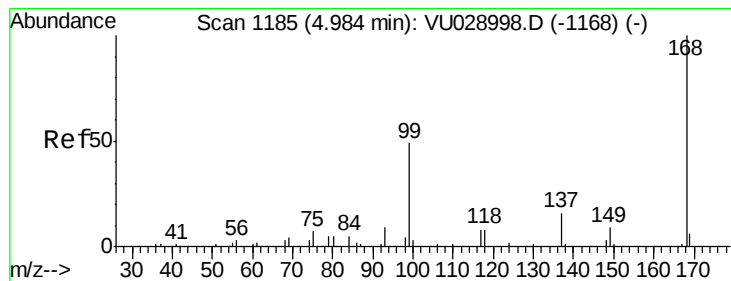
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jan 04 02:22:53 2019
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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: VU029099.D

Acq: 09 Jan 2019 19:03

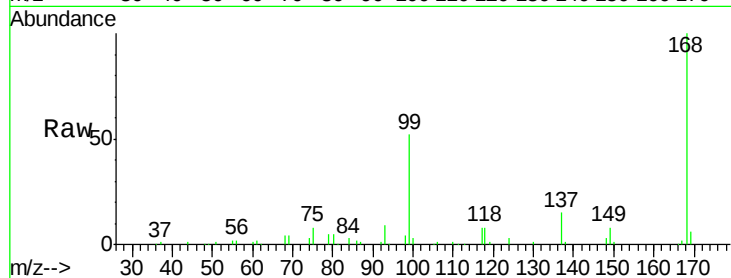
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 106828

Ion Ratio Lower Upper

168 100

99 52.4 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

50000

40000

30000

20000

10000

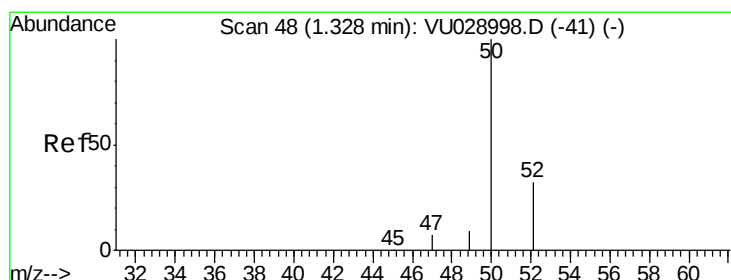
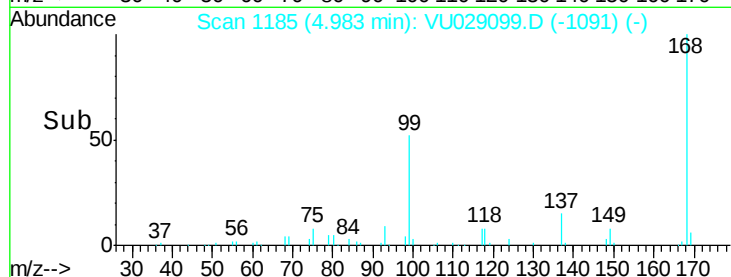
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029099.D

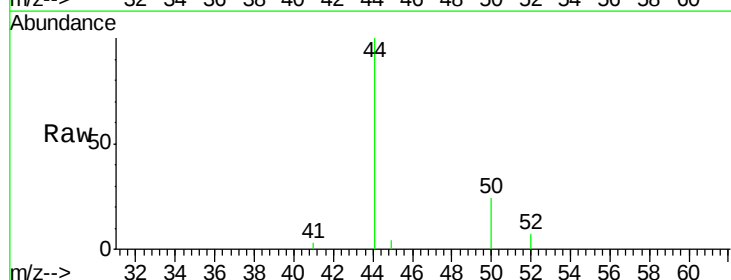
Acq: 09 Jan 2019 19:03

Tgt Ion: 50 Resp: 718

Ion Ratio Lower Upper

50 100

52 29.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)

1.33

800

600

400

200

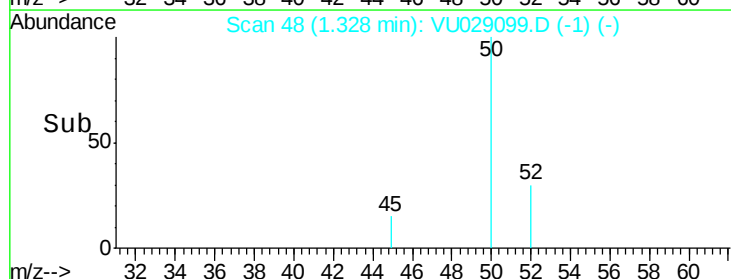
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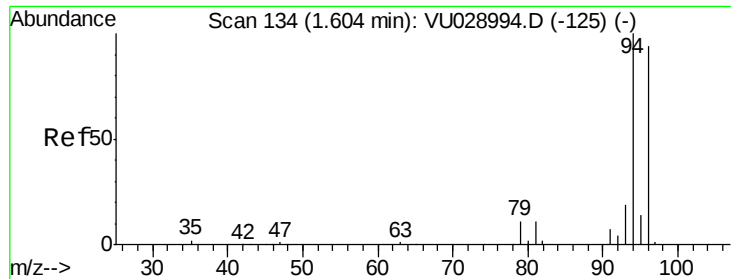
1.30

1.32

1.34

Time-->

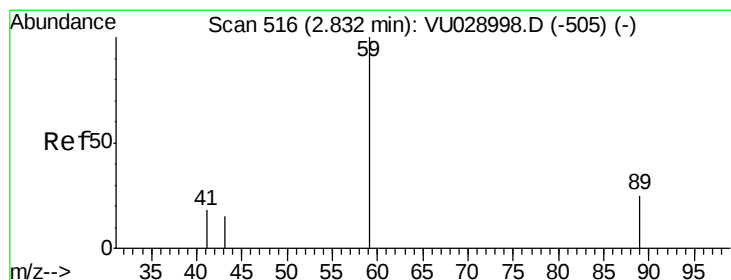
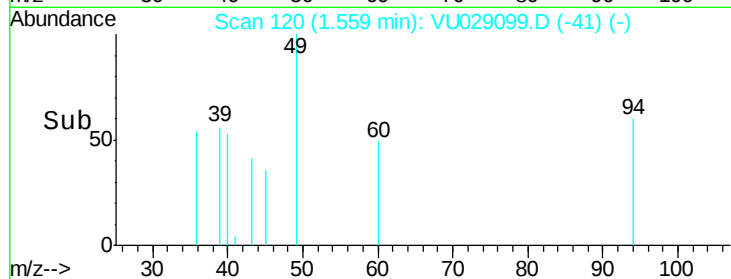
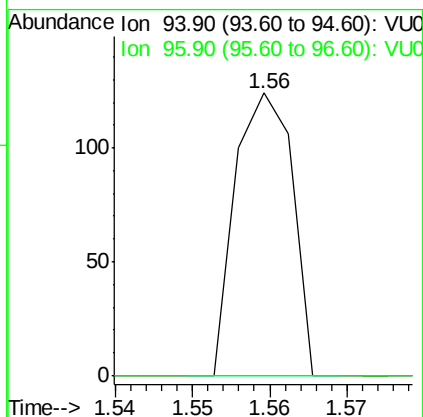
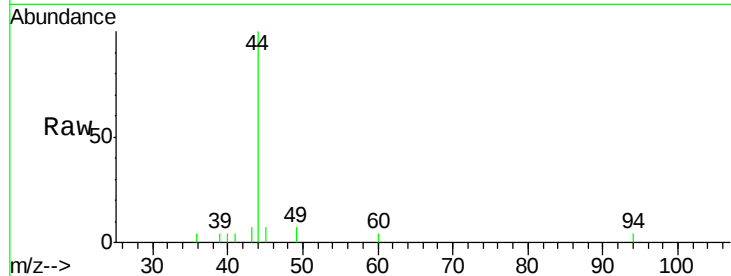




#5
 Bromomethane
 Concen: Below Cal
 RT: 1.56 min Scan# 120
 Delta R.T. -0.04 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

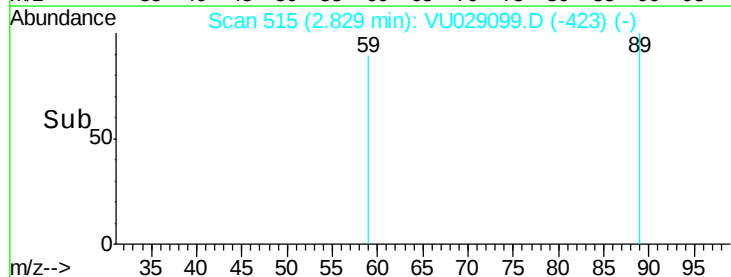
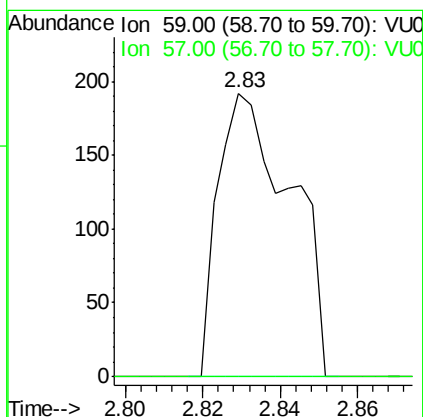
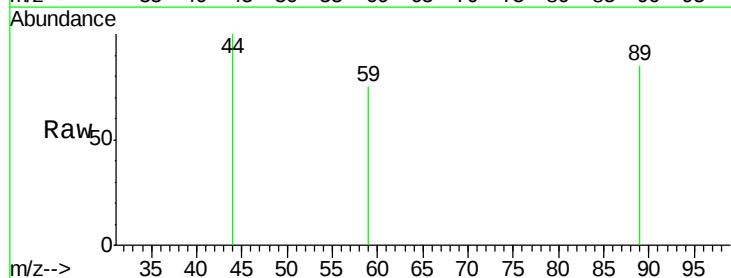
Instrument :
 MSVOA_U
 ClientSampleId :

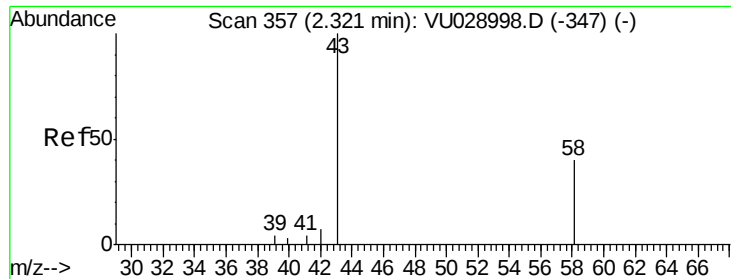
Tot Ion: 94 Resp: 64
 Ion Ratio Lower Upper
 94 100
 96 0.0 75.5 113.3#



#11
 Tert butyl alcohol
 Concen: 0.745 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. -0.00 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

Tgt Ion: 59 Resp: 250
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

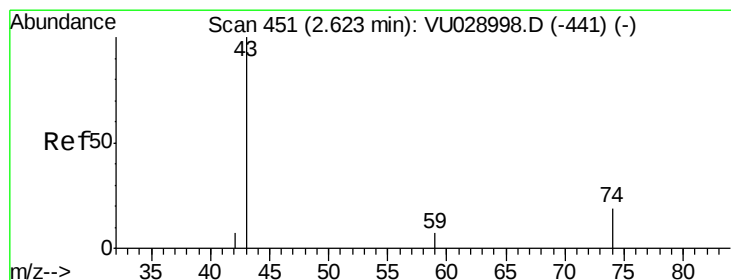
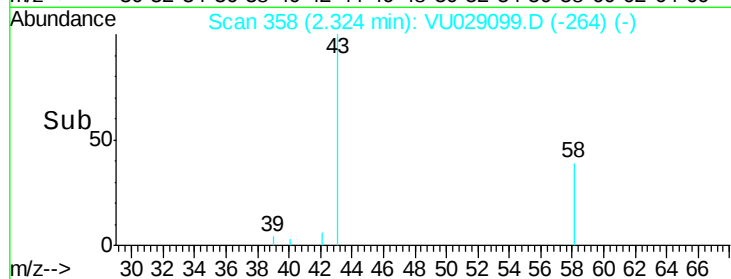
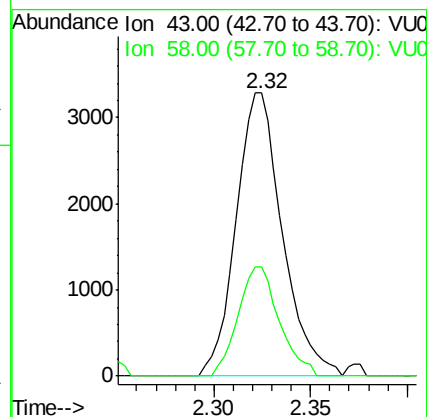
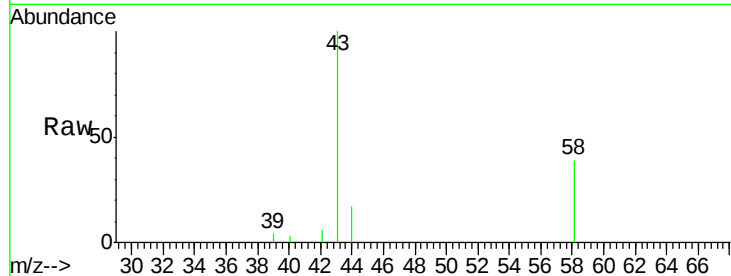




#16
Acetone
Concen: 6.569 ug/l
RT: 2.32 min Scan# 358
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

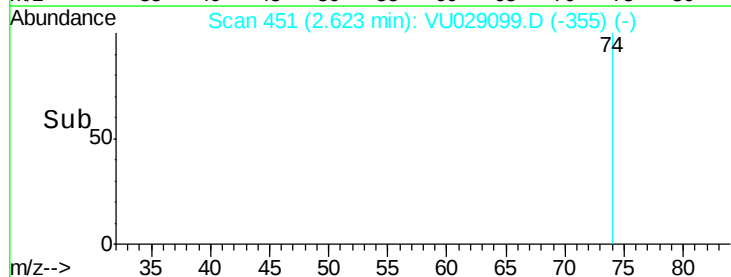
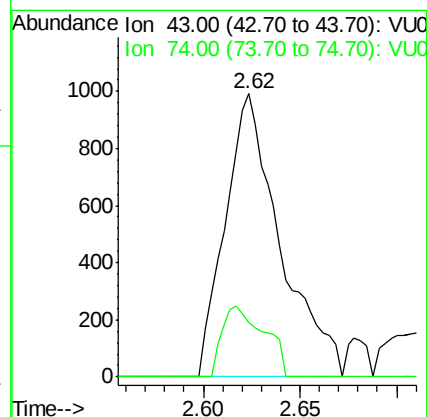
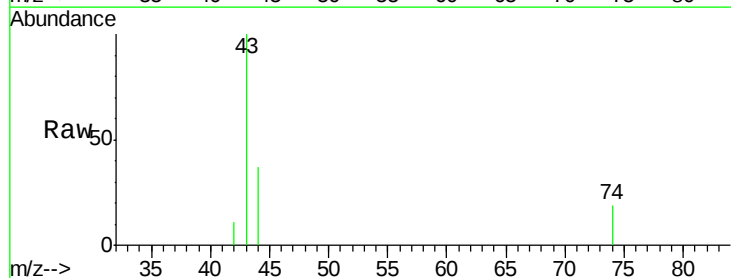
Instrument :
MSVOA_U
ClientSampleId :

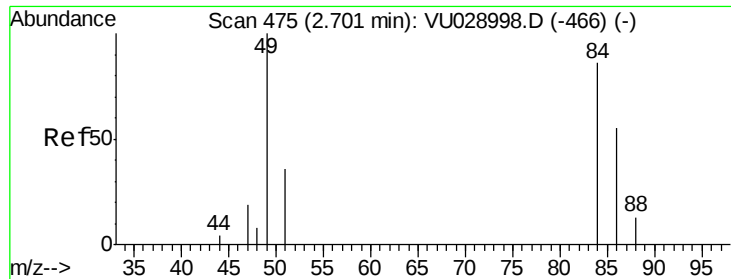
Tot Ion: 43 Resp: 5465
Ion Ratio Lower Upper
43 100
58 38.7 28.6 42.8



#18
Methyl Acetate
Concen: 1.010 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

Tgt Ion: 43 Resp: 1954
Ion Ratio Lower Upper
43 100
74 19.3 19.5 29.3#

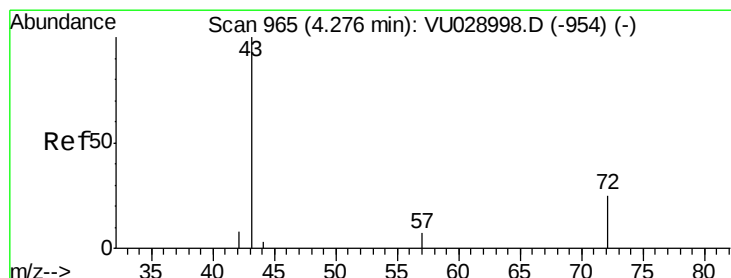
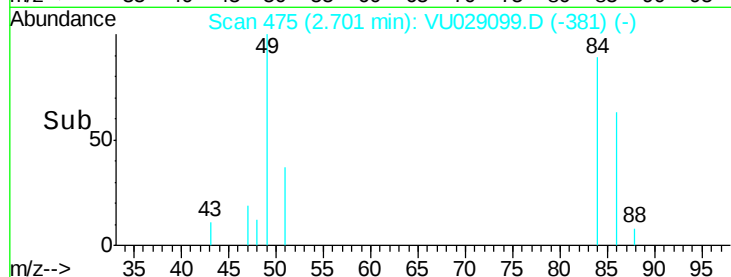
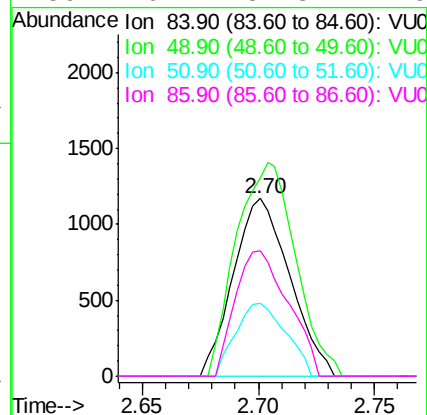
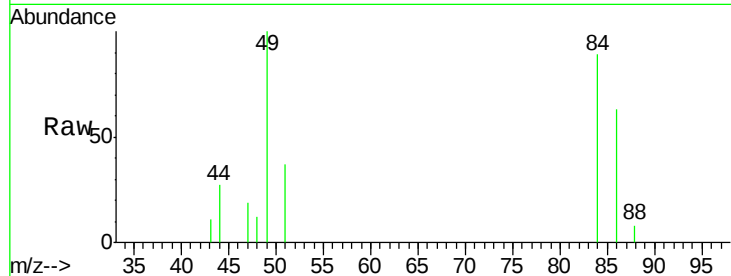




#20
Methvlene Chloride
Concen: 1.400 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

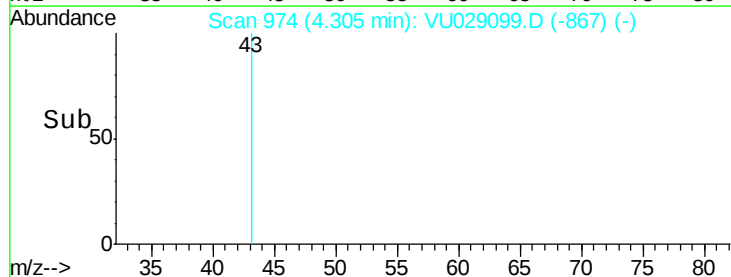
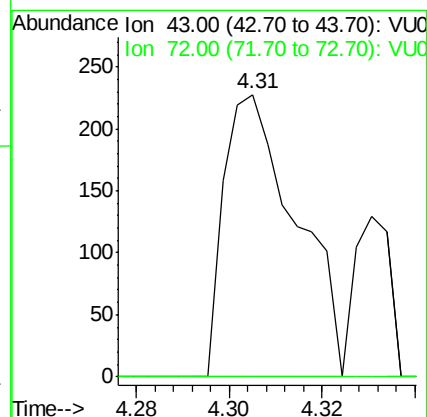
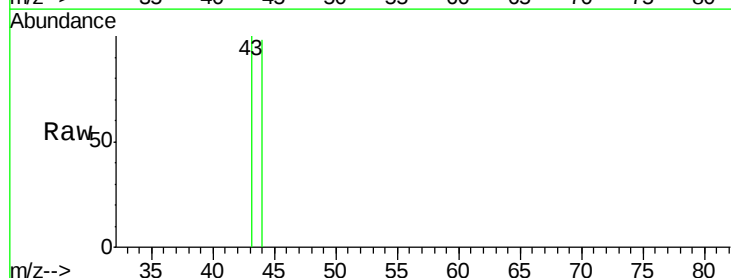
Instrument :
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ClientSampleId :

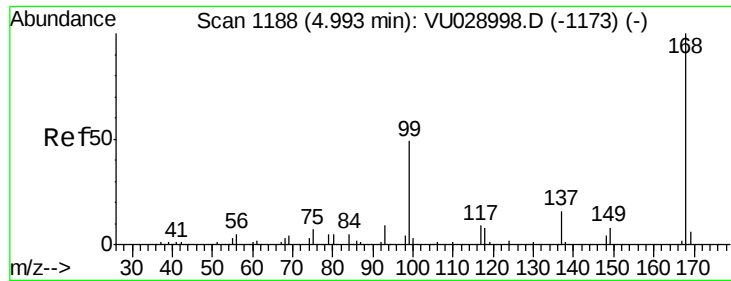
Tot Ion: 84 Resp: 1977
Ion Ratio Lower Upper
84 100
49 112.1 91.9 137.9
51 41.2 29.2 43.8
86 70.7 51.8 77.6



#25
2-Butanone
Concen: 0.218 ug/l
RT: 4.31 min Scan# 974
Delta R.T. 0.05 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

Tgt Ion: 43 Resp: 245
Ion Ratio Lower Upper
43 100
72 0.0 22.6 33.8#

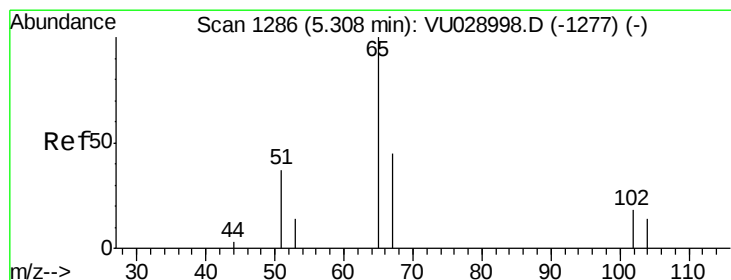
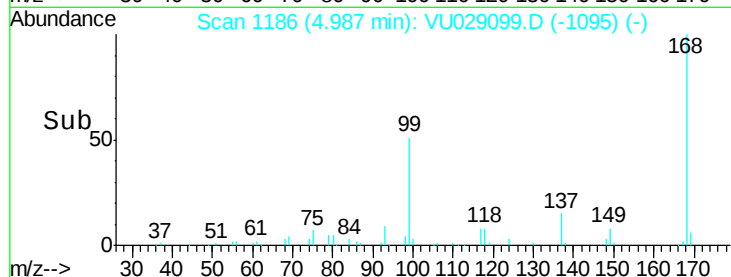
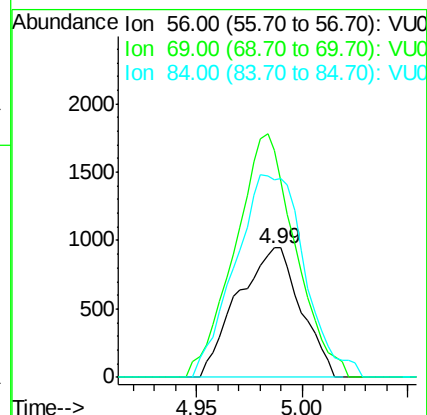
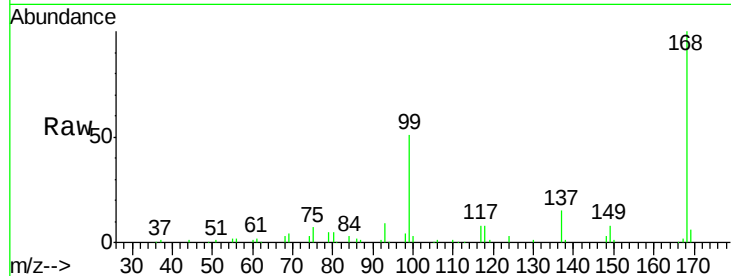




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

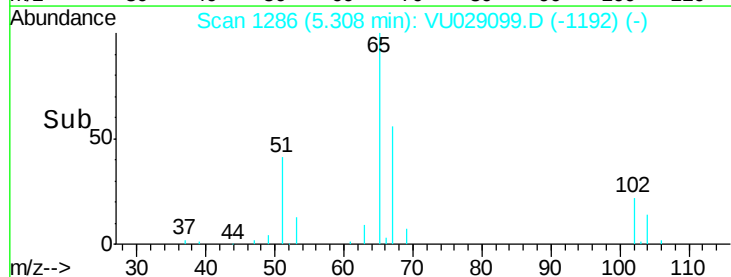
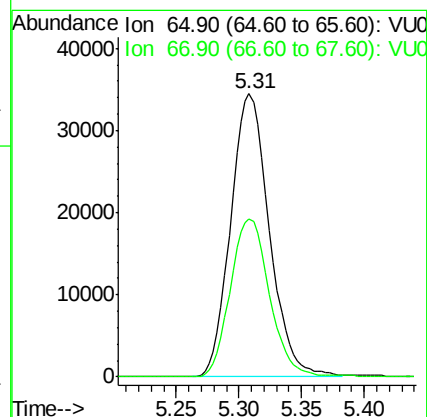
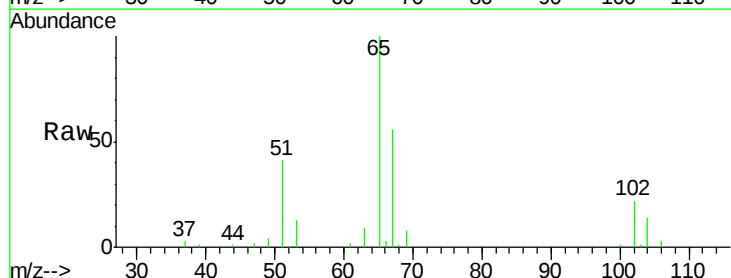
Instrument :
MSVOA_U
ClientSampled :

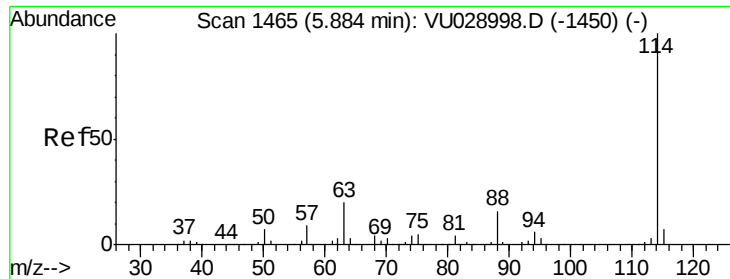
Tot Ion: 56 Resp: 1970
Ion Ratio Lower Upper
56 100
69 162.4 26.7 40.1#
84 152.3 65.7 98.5#



#33
1,2-Dichloroethane-d4
Concen: 55.993 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

Tgt Ion: 65 Resp: 73944
Ion Ratio Lower Upper
65 100
67 56.7 0.0 111.0

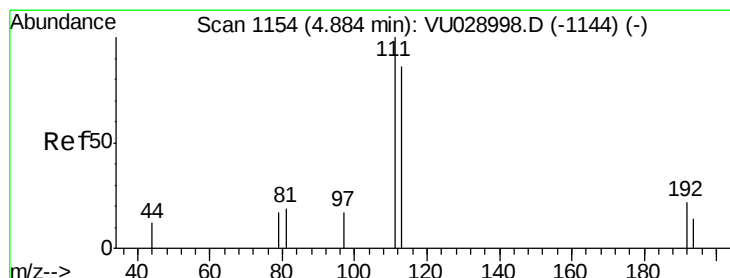
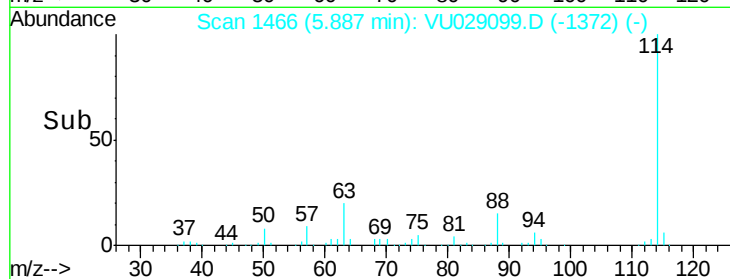
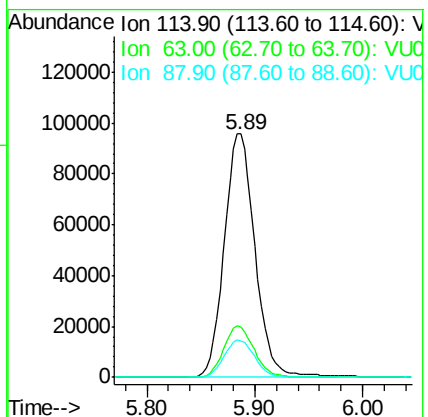
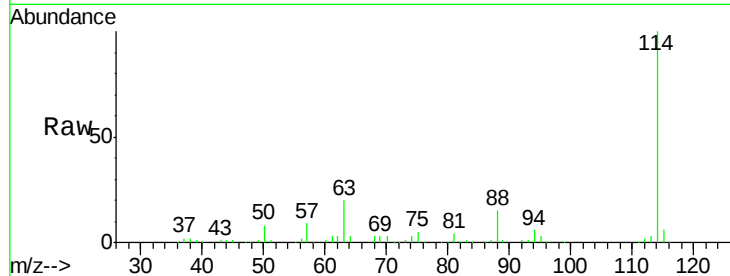




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1466
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

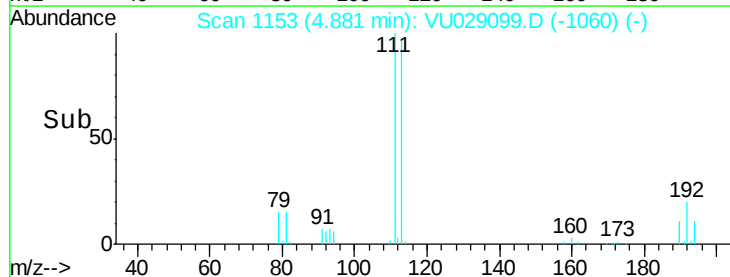
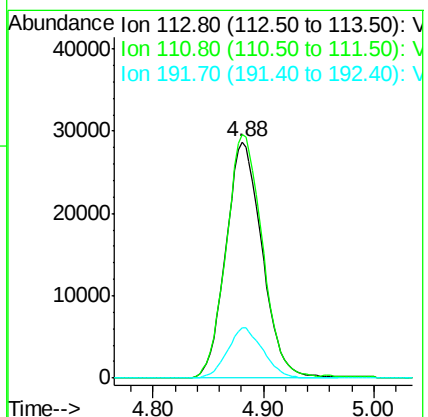
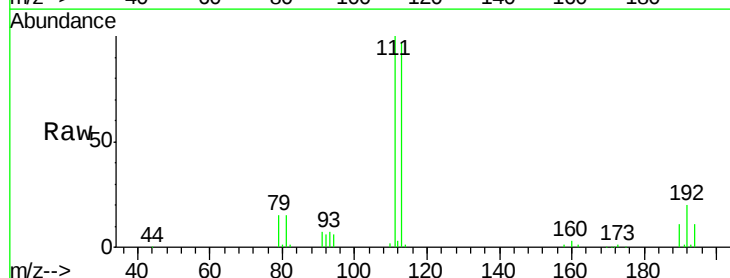
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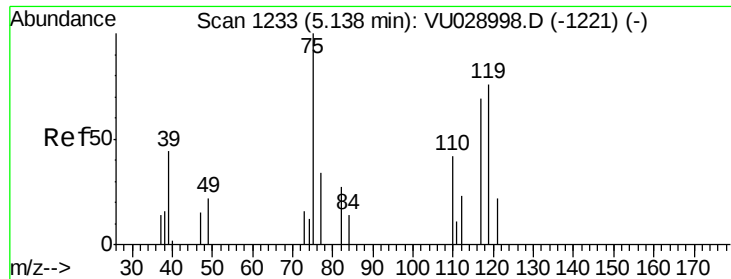
Tot Ion:114 Resp: 189509
Ion Ratio Lower Upper
114 100
63 20.4 0.0 40.2
88 15.0 0.0 30.4



#35
Dibromofluoromethane
Concen: 53.217 ug/l
RT: 4.88 min Scan# 1153
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

Tgt Ion:113 Resp: 65374
Ion Ratio Lower Upper
113 100
111 102.9 81.4 122.2
192 20.7 16.8 25.2

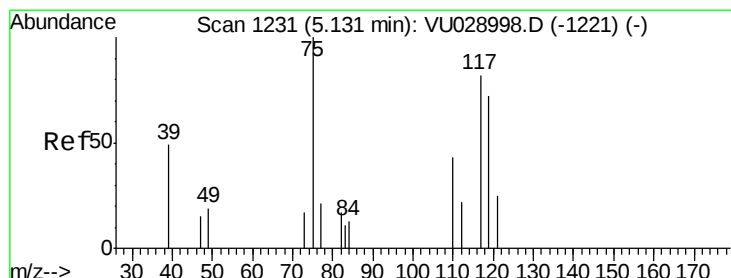
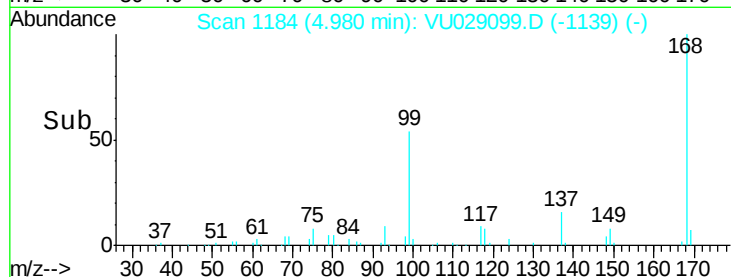
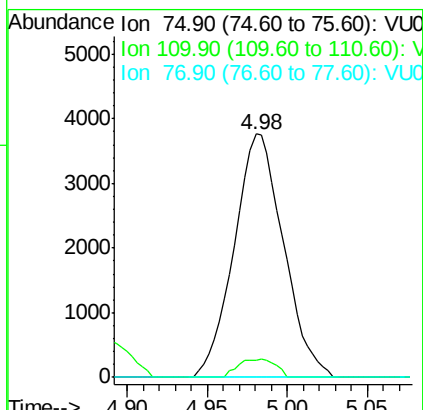
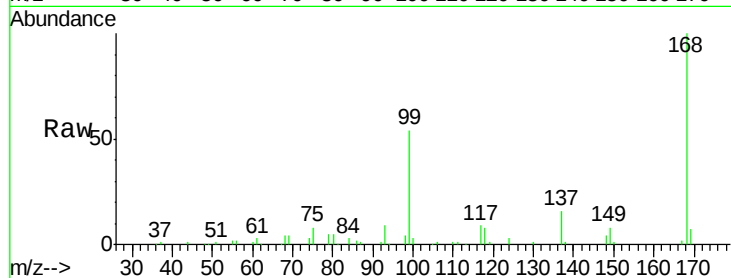




#36
 1,1-Dichloropropene
 Concen: 4.199 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

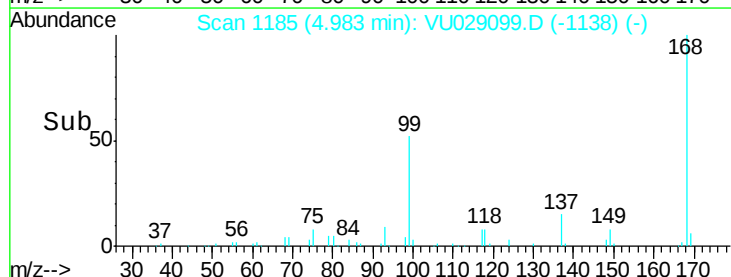
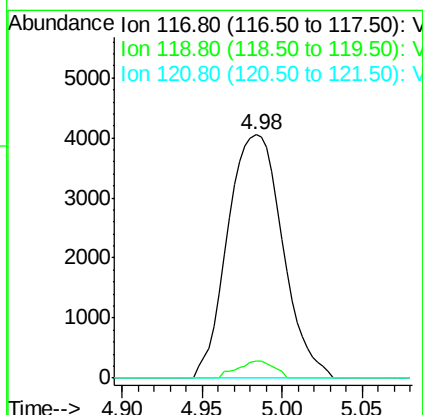
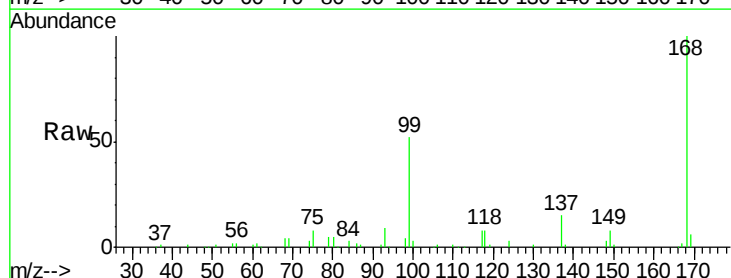
Instrument :
 MSVOA_U
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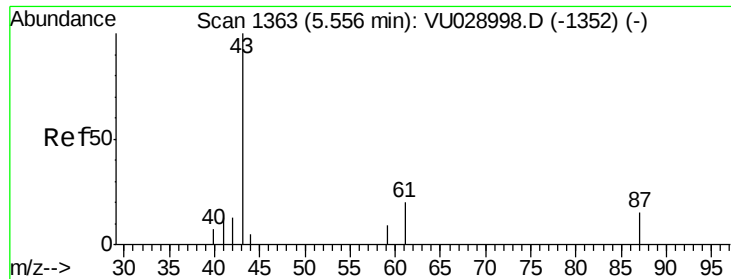
Tot Ion: 75 Resp: 7953
 Ion Ratio Lower Upper
 75 100
 110 5.8 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.025 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

Tgt Ion: 117 Resp: 9519
 Ion Ratio Lower Upper
 117 100
 119 7.2 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.547 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029099.D

Acq: 09 Jan 2019 19:03

Instrument :

MSVOA_U

ClientSampled :

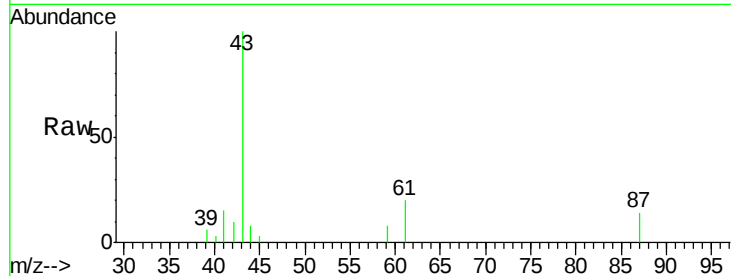
Tot Ion: 43 Resp: 8125

Ion Ratio Lower Upper

43 100

61 17.4 17.8 26.6#

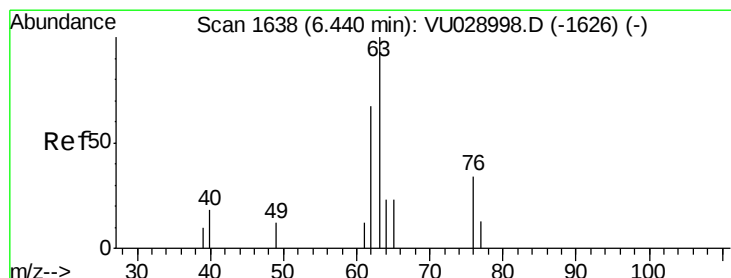
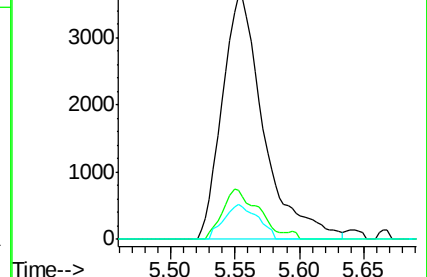
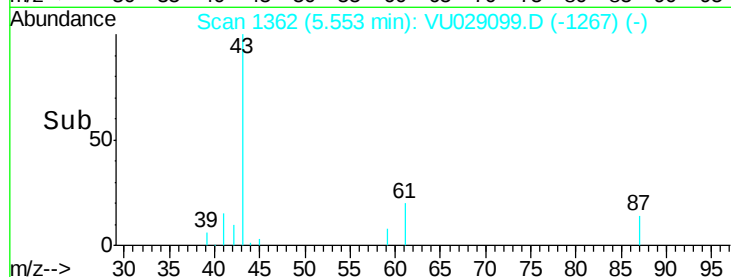
87 11.7 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029099.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029099.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029099.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.448 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029099.D

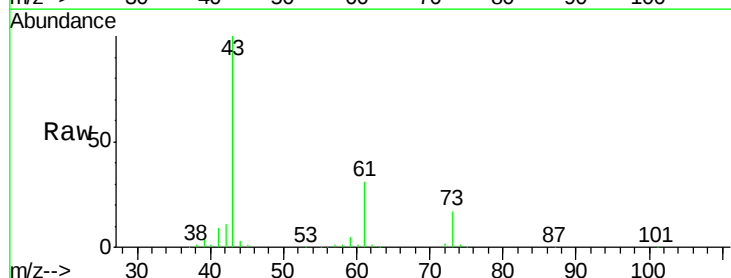
Acq: 09 Jan 2019 19:03

Tgt Ion: 63 Resp: 699

Ion Ratio Lower Upper

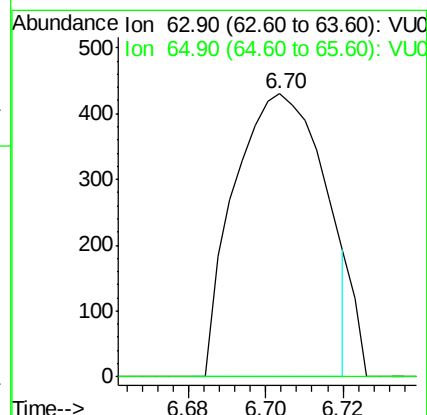
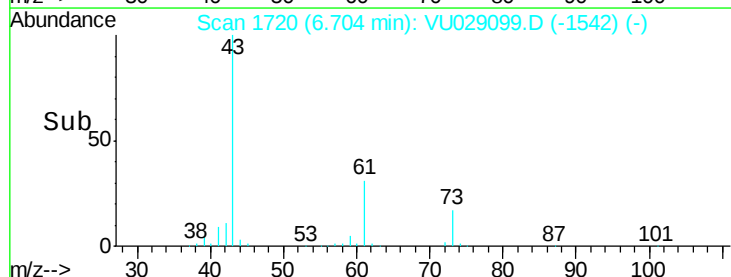
63 100

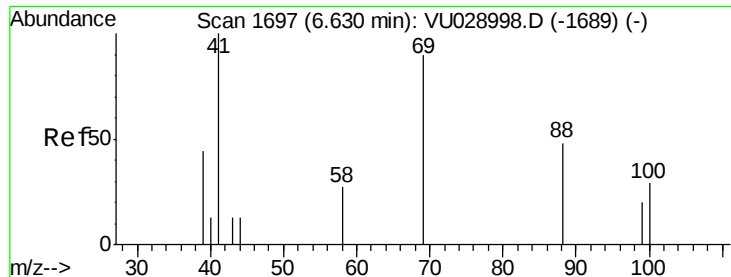
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029099.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029099.D (-1542) (-)





#48

Methvl methacrylate

Concen: 34.420 ug/l

RT: 6.70 min Scan# 1720

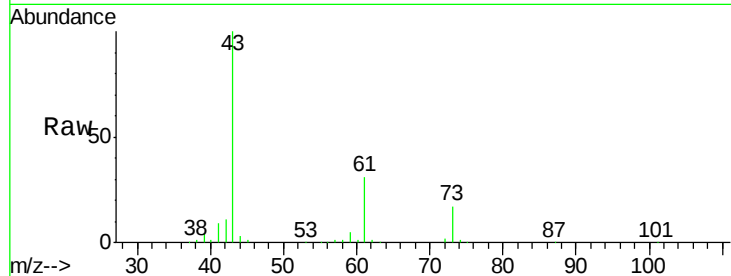
Delta R.T. 0.08 min

Lab File: VU029099.D

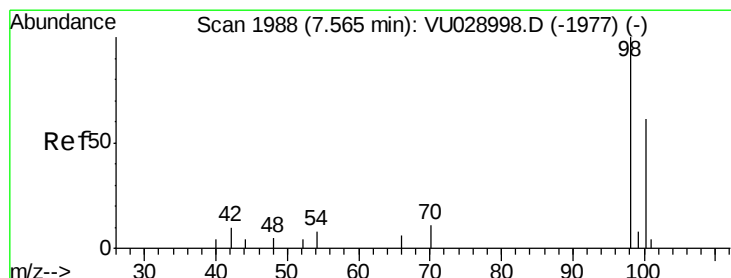
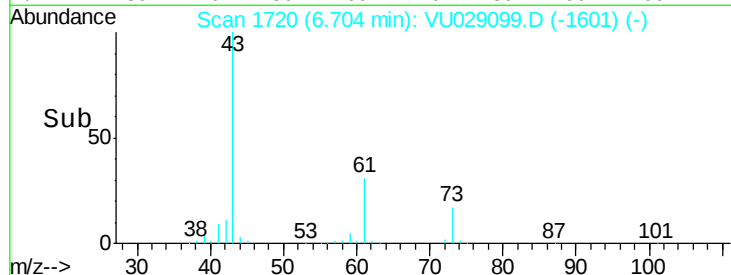
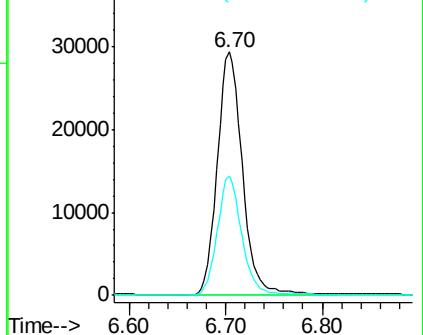
Acq: 09 Jan 2019 19:03

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 53456
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 47.2 39.6 59.4



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 49.800 ug/l

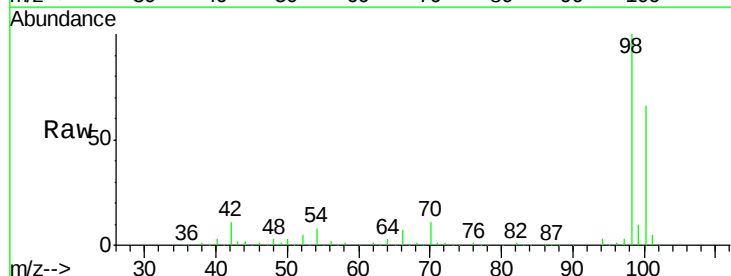
RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

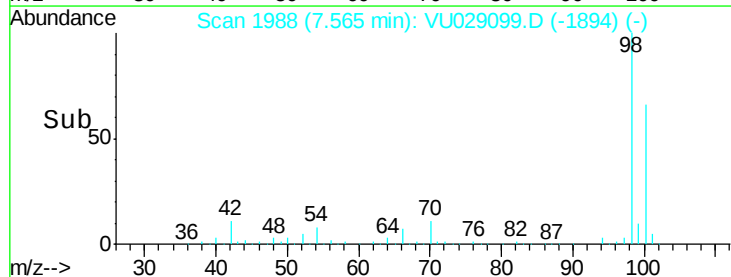
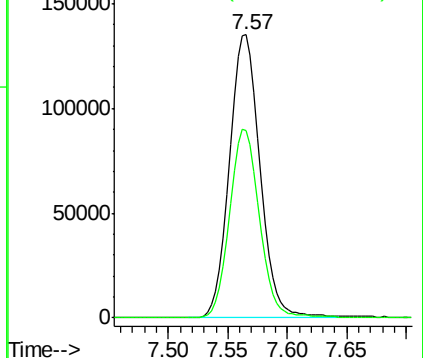
Lab File: VU029099.D

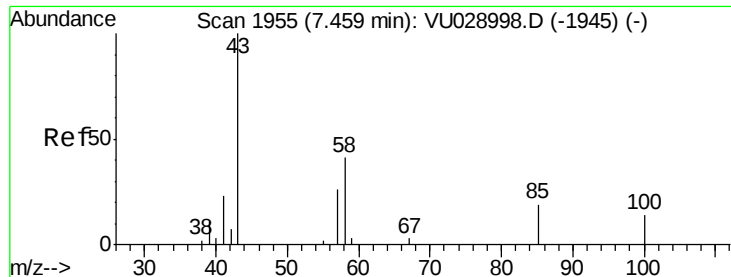
Acq: 09 Jan 2019 19:03

Tgt Ion: 98 Resp: 241517
Ion Ratio Lower Upper
98 100
100 65.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 1.809 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029099.D

Acq: 09 Jan 2019 19:03

Instrument :

MSVOA_U

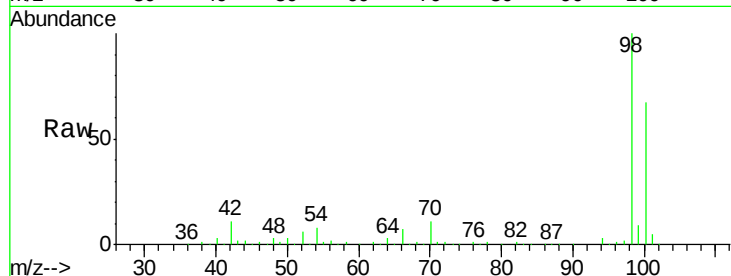
ClientSampleId :

Tot Ion: 43 Resp: 3927

Ion Ratio Lower Upper

43 100

58 48.0 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2500

2000

1500

1000

500

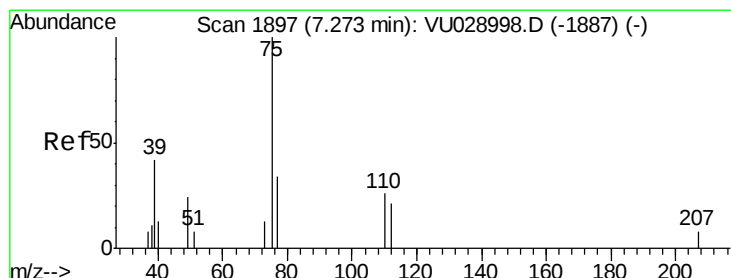
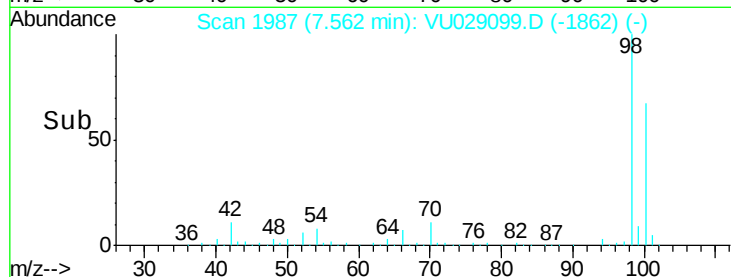
0

7.50

7.55

7.60

Time-->



#54

cis-1,3-Dichloropropene

Concen: 8.434 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU029099.D

Acq: 09 Jan 2019 19:03

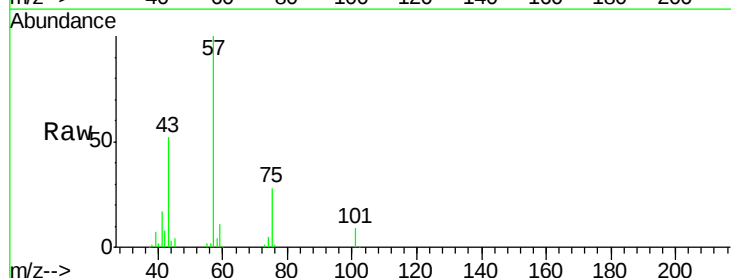
Tgt Ion: 75 Resp: 20105

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 25.8 32.2 48.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

15000

10000

5000

0

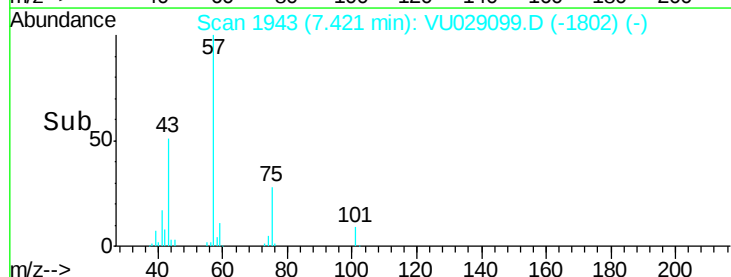
7.35

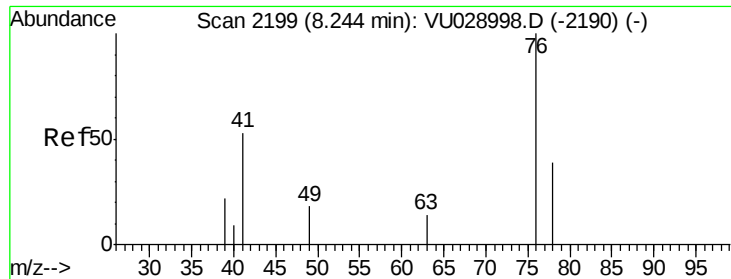
7.40

7.45

7.50

Time-->

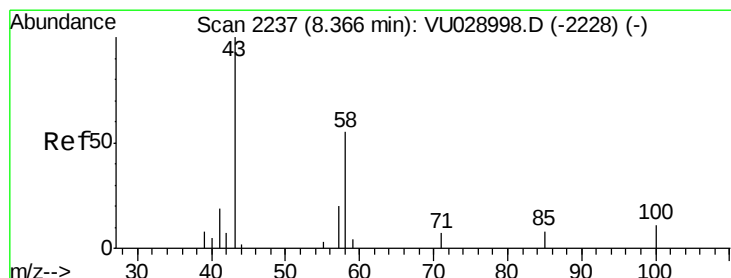
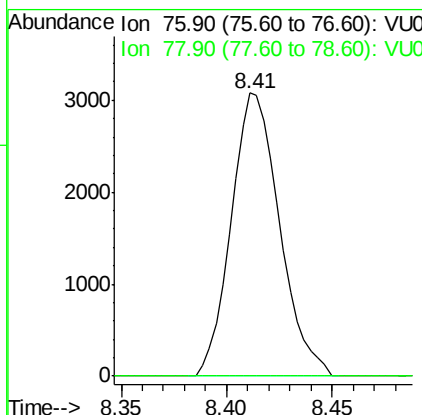
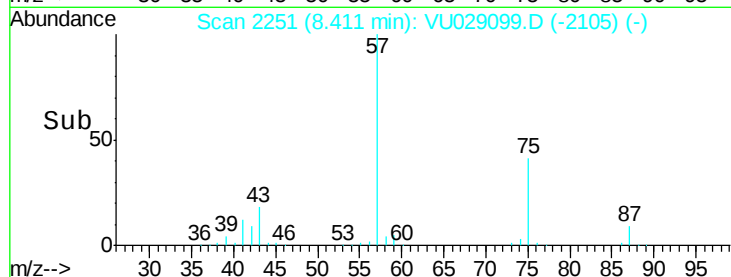
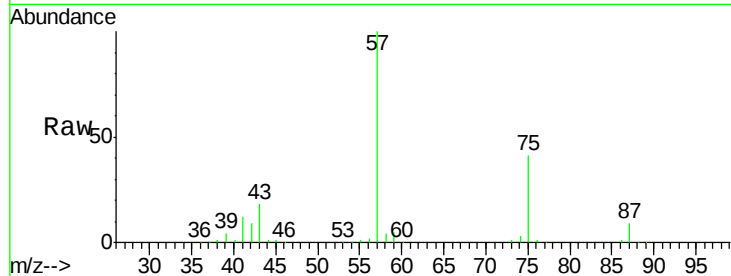




#57
 1,3-Dichloropropane
 Concen: 1.988 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

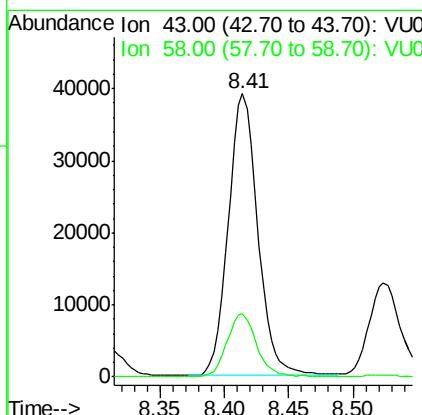
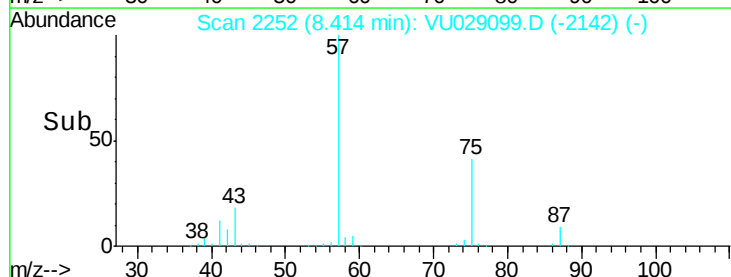
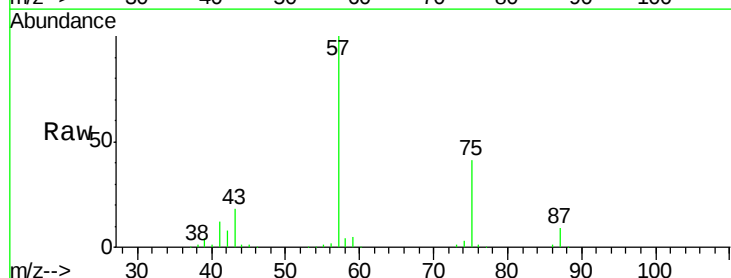
Instrument :
 MSVOA_U
 ClientSampleId :

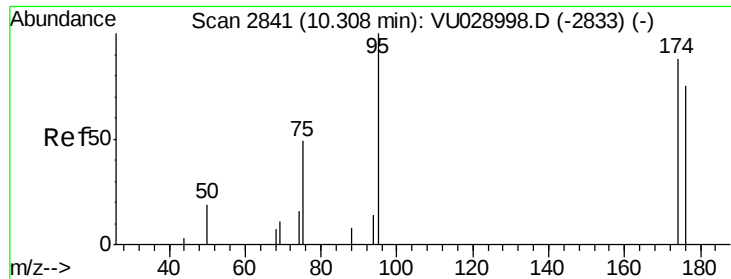
Tot Ion: 76 Resp: 4903
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 36.530 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.05 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

Tgt Ion: 43 Resp: 62242
 Ion Ratio Lower Upper
 43 100
 58 22.5 29.8 89.4#

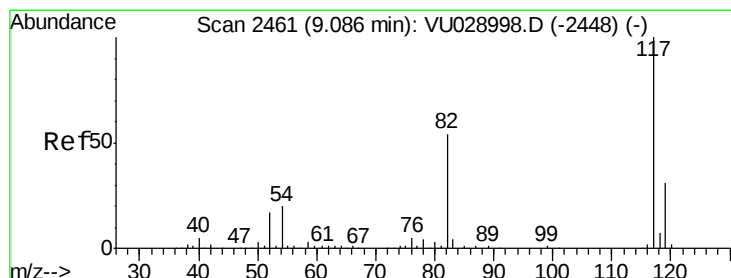
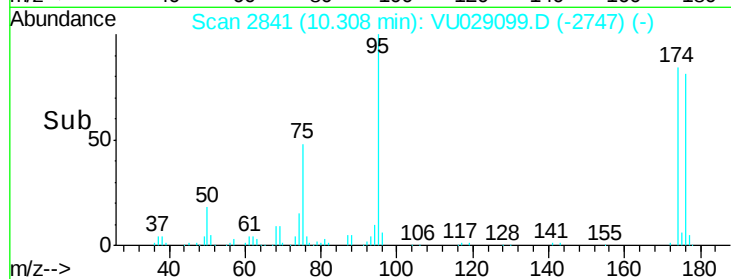
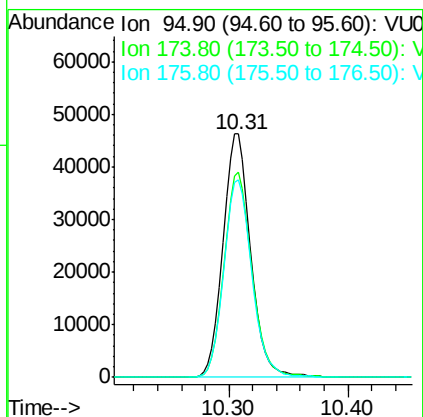
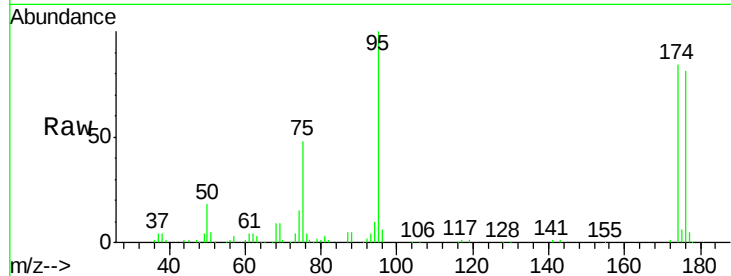




#62
4-Bromofluorobenzene
Concen: 42.842 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

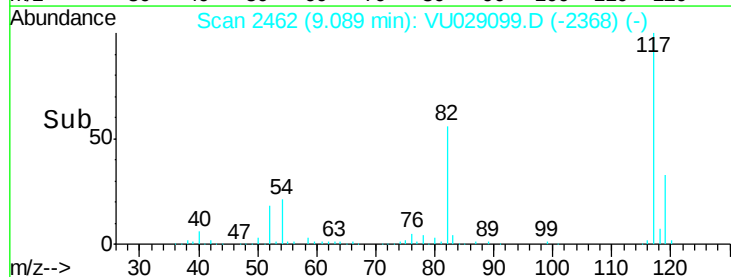
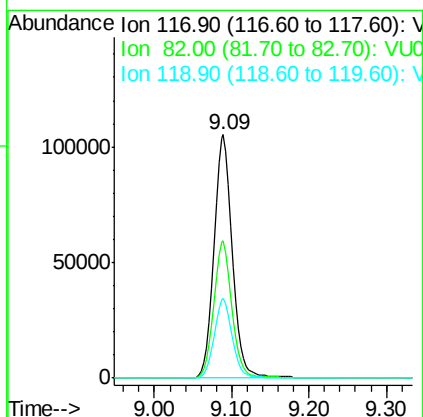
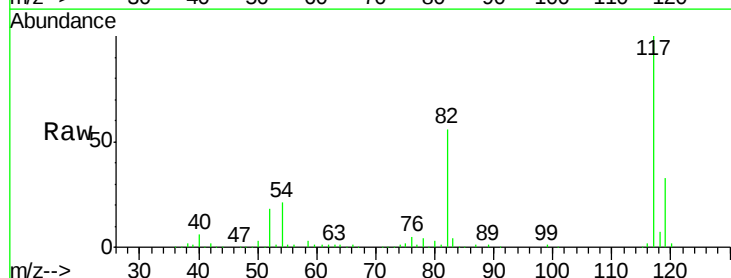
Instrument :
MSVOA_U
ClientSampleId :

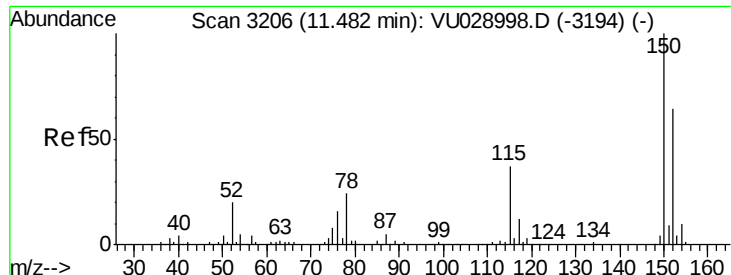
Tot Ion: 95 Resp: 74670
Ion Ratio Lower Upper
95 100
174 84.7 0.0 170.6
176 81.6 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029099.D
Acq: 09 Jan 2019 19:03

Tgt Ion: 117 Resp: 178428
Ion Ratio Lower Upper
117 100
82 56.3 43.9 65.9
119 32.9 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029099.D

Acq: 09 Jan 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

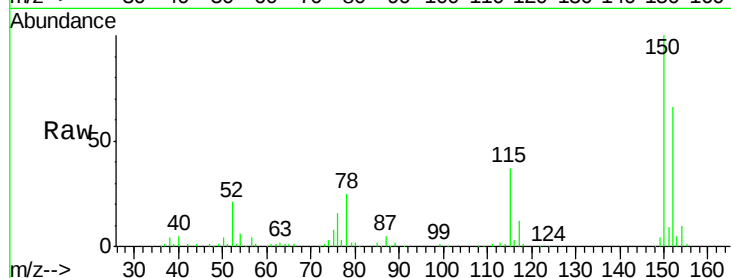
Tot Ion:152 Resp: 67785

Ion Ratio Lower Upper

152 100

115 56.7 40.1 120.3

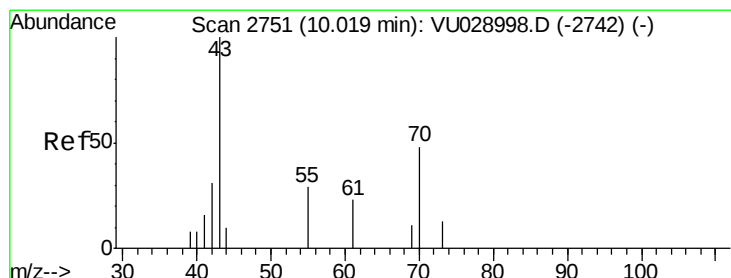
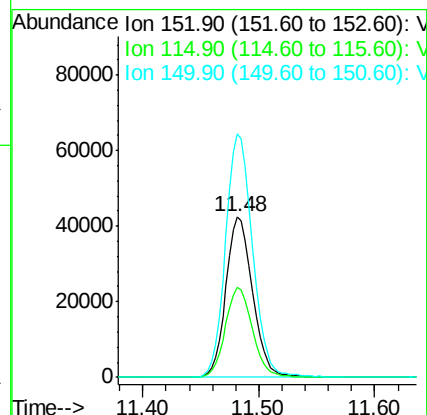
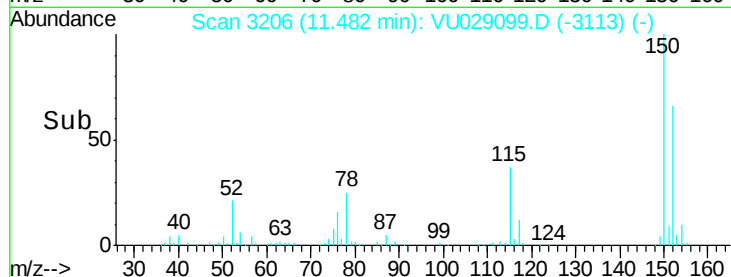
150 152.9 0.0 345.2



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



#74

N-ethyl acetate

Concen: 2.687 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029099.D

Acq: 09 Jan 2019 19:03

Tgt Ion: 43 Resp: 5809

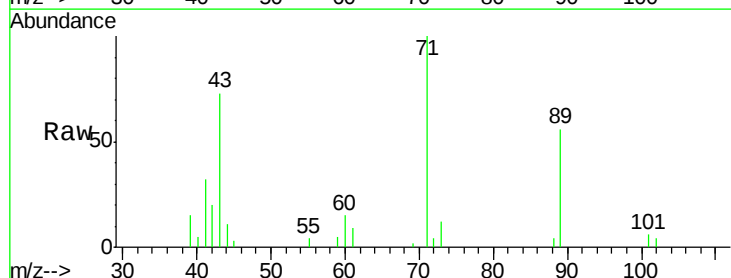
Ion Ratio Lower Upper

43 100

70 0.3 36.3 54.5#

55 4.3 20.5 30.7#

61 11.1 21.8 32.8#

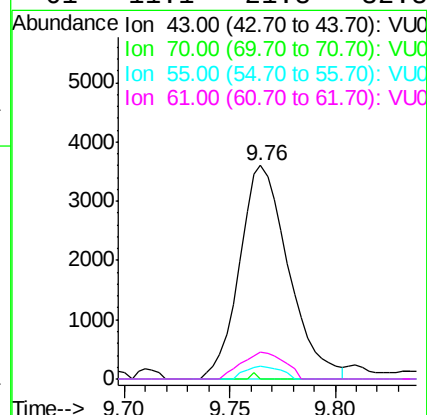
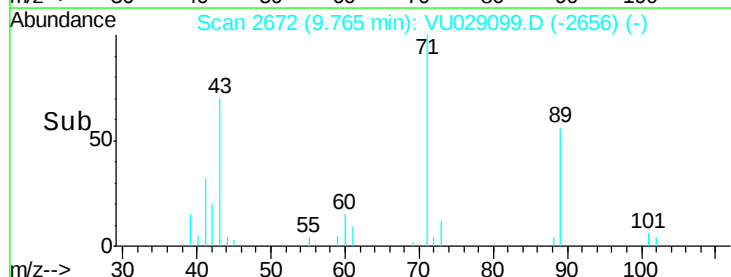


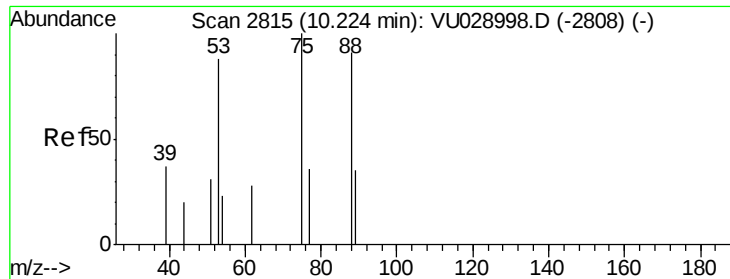
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

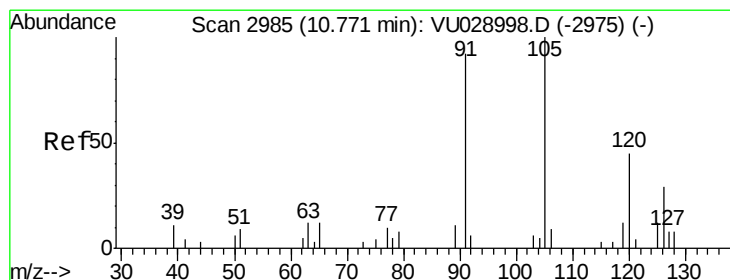
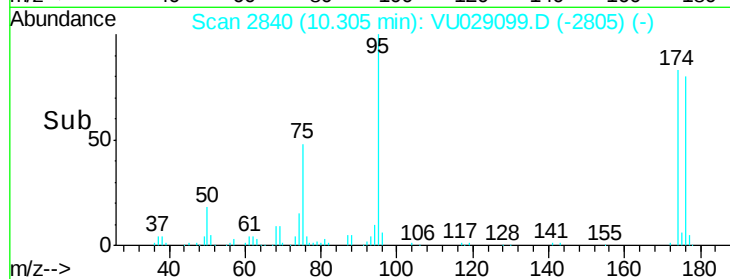
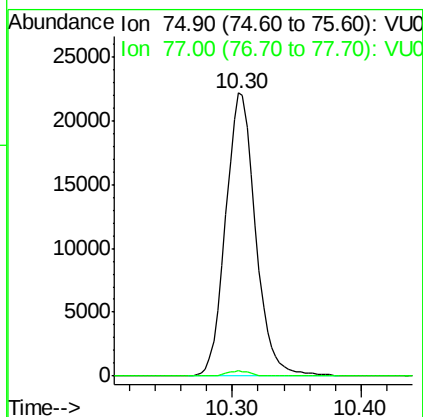
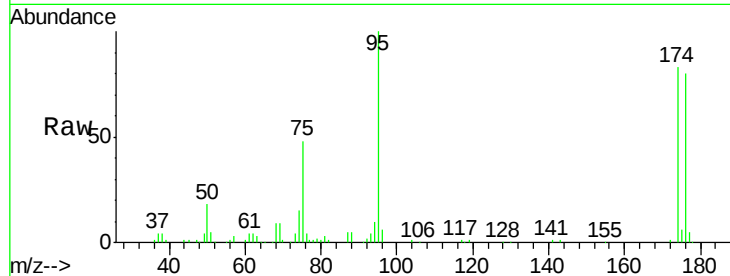




#76
 1,2,3-Trichloropropane
 Concen: 21.495 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

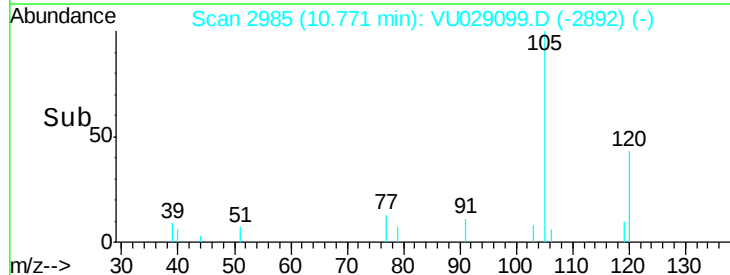
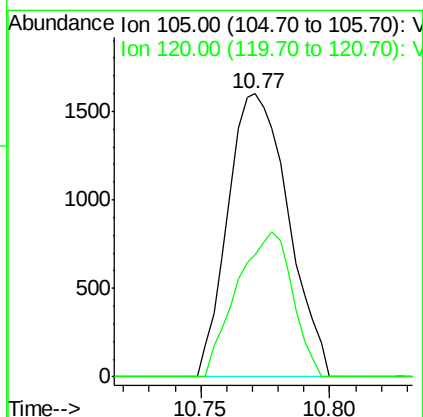
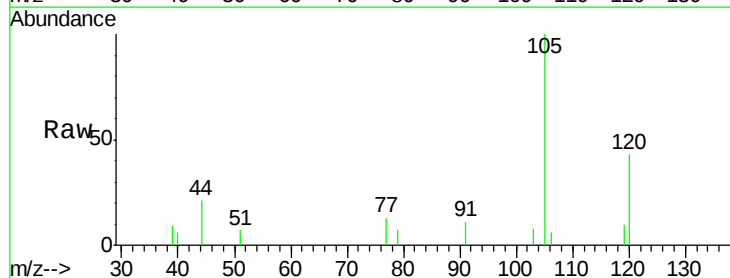
Instrument :
 MSVOA_U
 ClientSampled :

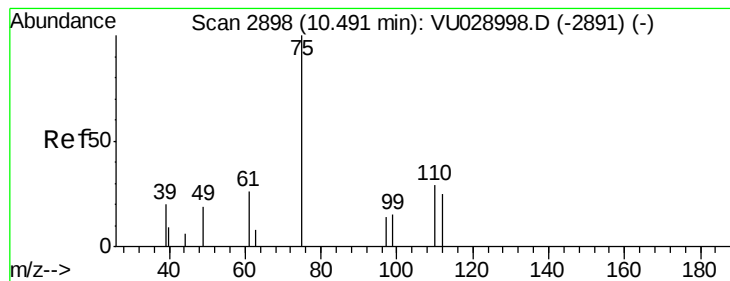
Tot Ion: 75 Resp: 35700
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.9 62.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.622 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU029099.D
 Acq: 09 Jan 2019 19:03

Tgt Ion: 105 Resp: 2606
 Ion Ratio Lower Upper
 105 100
 120 47.1 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 55.437 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029099.D

Acq: 09 Jan 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

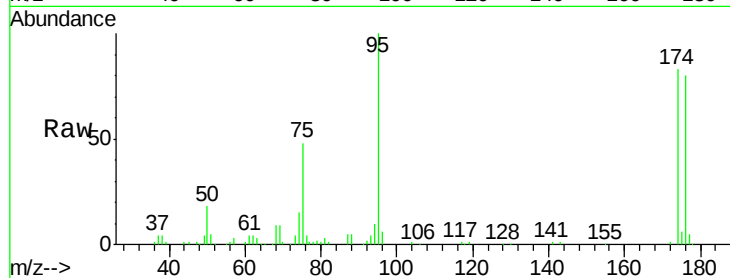
Tot Ion: 75 Resp: 35700

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

