

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029091.D
 Acq On : 09 Jan 2019 15:49
 Operator : MD/SY
 Sample : PB116248ZHE#06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:06:12 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	109986	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	189644	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	177951	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	66674	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	75174	55.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.58%	
35) Dibromofluoromethane	4.88	113	64258	52.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.54%	
50) Toluene-d8	7.57	98	247763	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
62) 4-Bromofluorobenzene	10.31	95	76546	43.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.78%	

Target Compounds

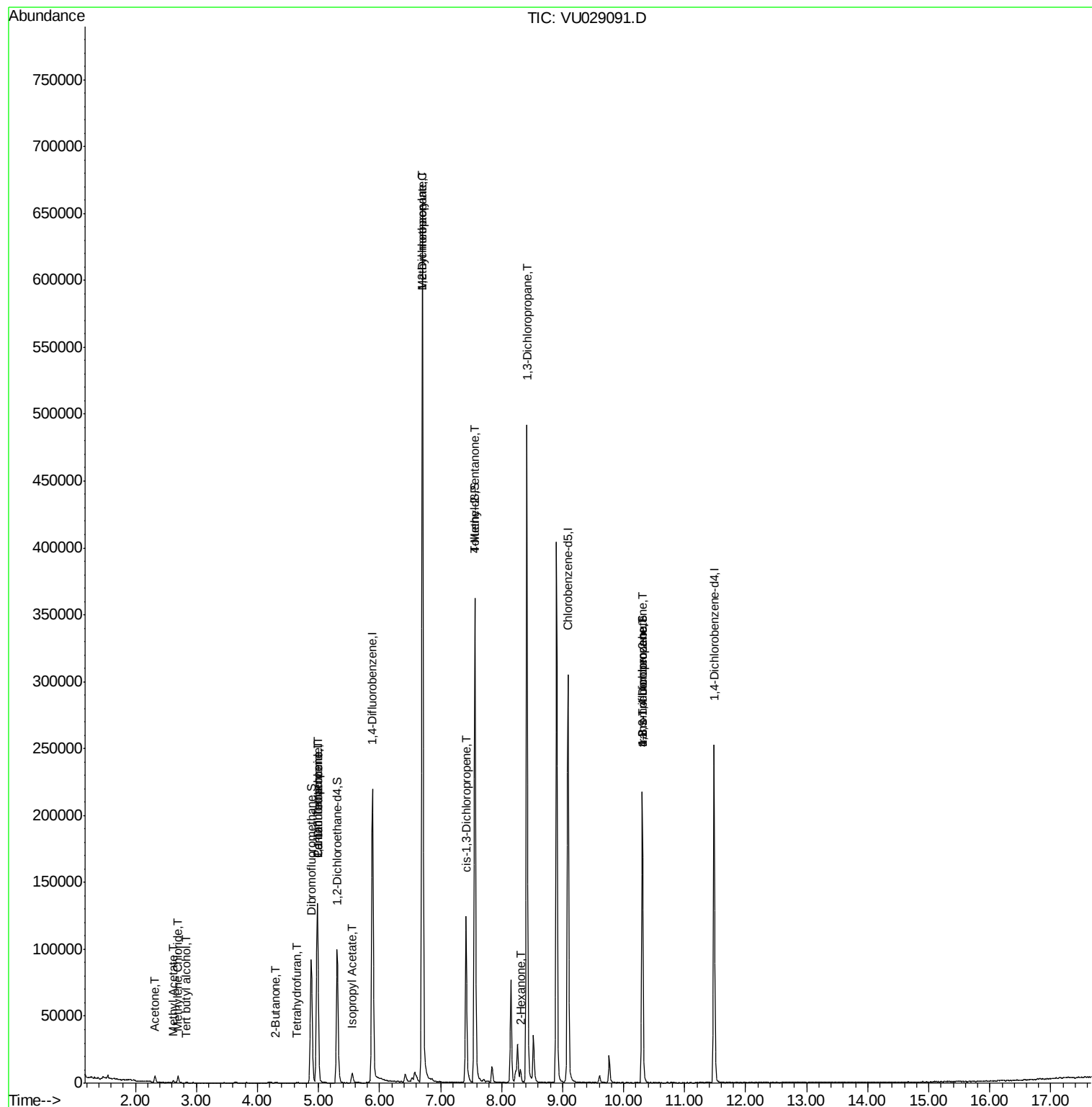
					Qvalue	
3) Chloromethane	1.33	50	897	Below Cal		97
11) Tert butyl alcohol	2.82	59	111	0.321 ug/l #		73
16) Acetone	2.32	43	5857	6.838 ug/l		96
18) Methyl Acetate	2.63	43	2279	1.144 ug/l #		81
20) Methylene Chloride	2.70	84	2145	1.475 ug/l		96
25) 2-Butanone	4.29	43	247	0.214 ug/l #		47
29) Tetrahydrofuran	4.65	42	166	0.237 ug/l #		30
31) Cyclohexane	4.98	56	1766	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8145	4.297 ug/l #		46
38) Carbon Tetrachloride	4.98	117	9959	6.299 ug/l #		16
43) Isopropyl Acetate	5.55	43	9127	2.860 ug/l		97
45) 1,2-Dichloropropane	6.70	63	624	0.400 ug/l #		43
48) Methyl methacrylate	6.70	41	55127	35.470 ug/l #		37
51) 4-Methyl-2-Pentanone	7.56	43	4666	2.148 ug/l		98
54) cis-1,3-Dichloropropene	7.42	75	22757	9.540 ug/l #		62
57) 1,3-Dichloropropane	8.41	76	5027	2.037 ug/l #		42
59) 2-Hexanone	8.31	43	7484	4.389 ug/l #		21
76) 1,2,3-Trichloropropane	10.30	75	35444	21.697 ug/l #		35
81) trans-1,4-Dichloro-2-buten	10.30	75	35444	55.957 ug/l #		100

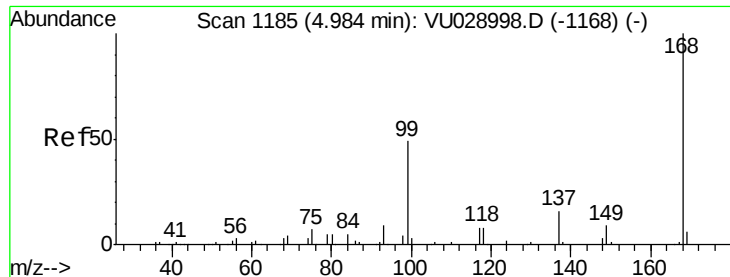
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jan 04 02:22:53 2019
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: VU029091.D

Acq: 09 Jan 2019 15:49

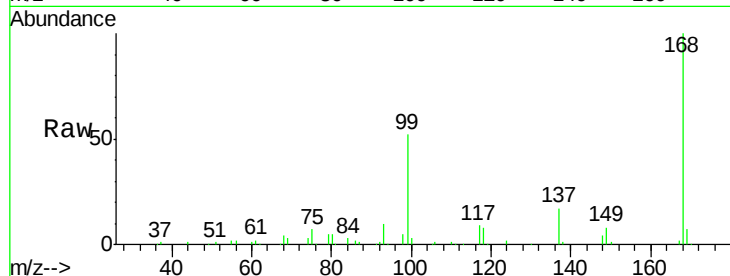
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 109986

Ion Ratio Lower Upper

168 100

99 51.7 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

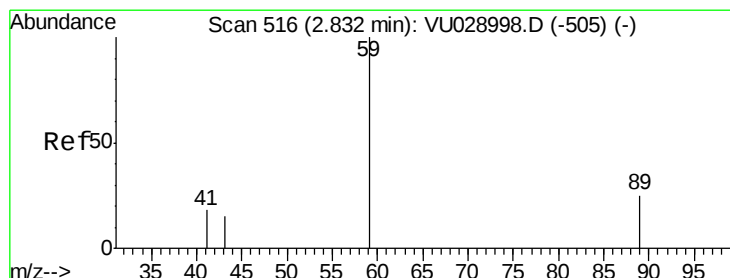
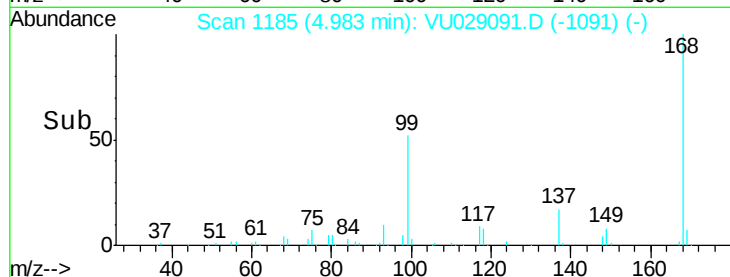
0

4.90

5.00

5.10

Time-->



#11

Tert butyl alcohol

Concen: 0.321 ug/l

RT: 2.82 min Scan# 513

Delta R.T. -0.01 min

Lab File: VU029091.D

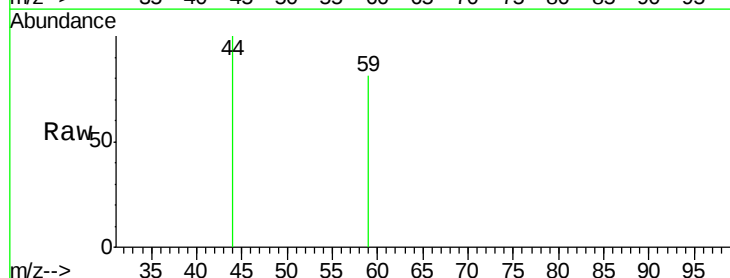
Acq: 09 Jan 2019 15:49

Tgt Ion: 59 Resp: 111

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU028998.D (-505) (-)

Ion 57.00 (56.70 to 57.70): VU028998.D (-505) (-)

2.82

150

100

50

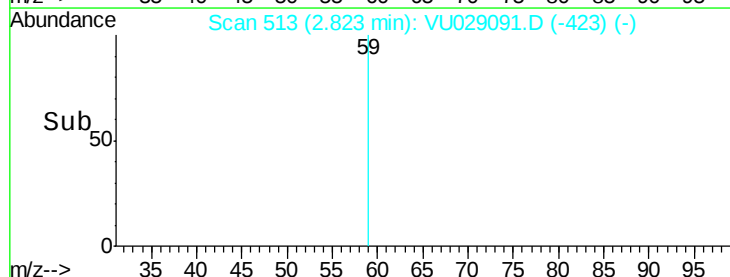
0

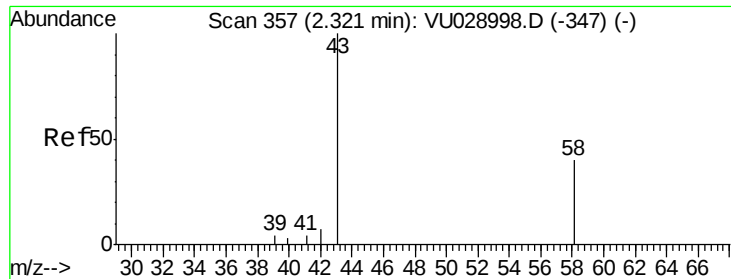
2.81

2.82

2.83

Time-->

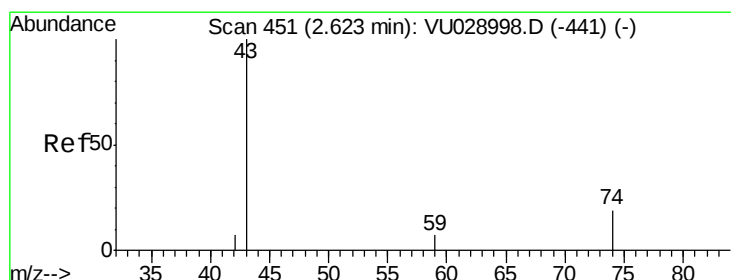
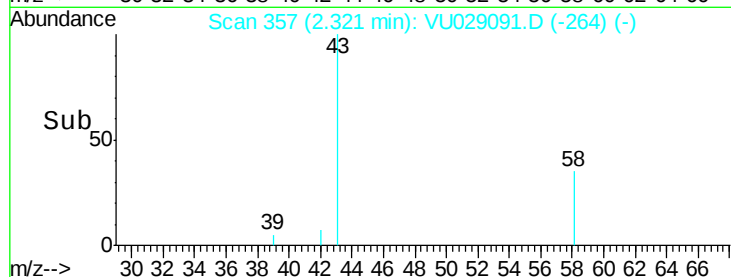
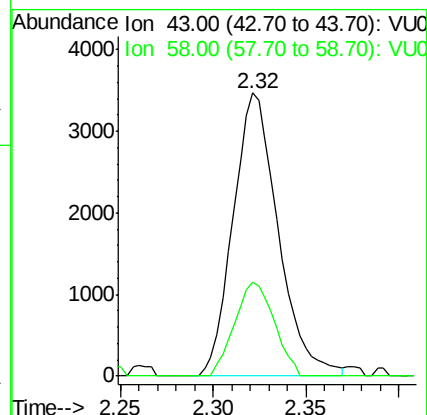
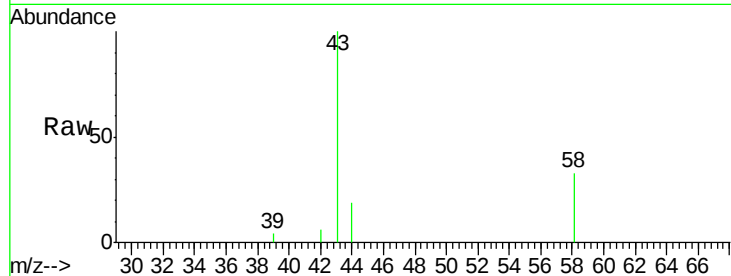




#16
Acetone
Concen: 6.838 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

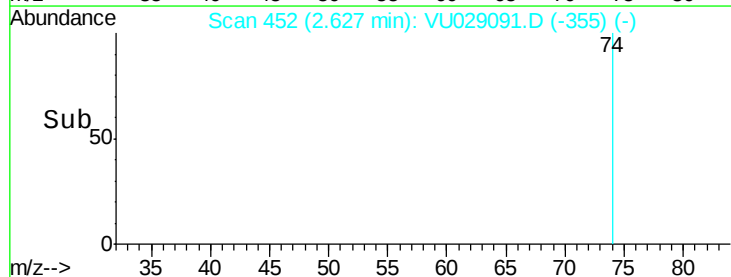
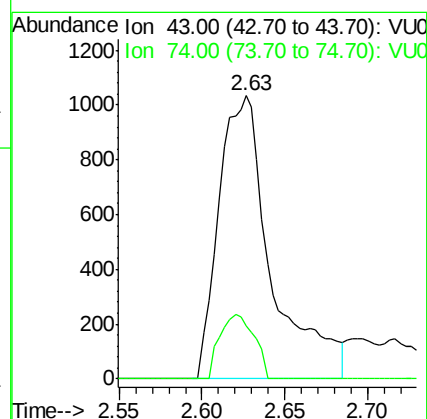
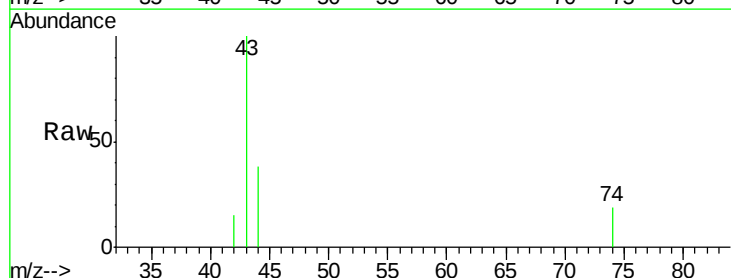
Instrument :
MSVOA_U
ClientSampleId :

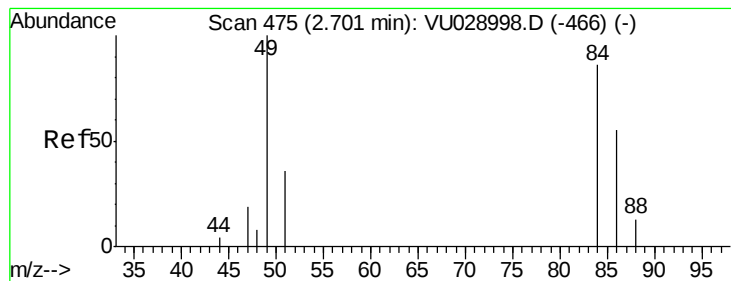
Tot Ion: 43 Resp: 5857
Ion Ratio Lower Upper
43 100
58 33.1 28.6 42.8



#18
Methyl Acetate
Concen: 1.144 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

Tgt Ion: 43 Resp: 2279
Ion Ratio Lower Upper
43 100
74 14.9 19.5 29.3#





#20

Methylene Chloride

Concen: 1.475 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

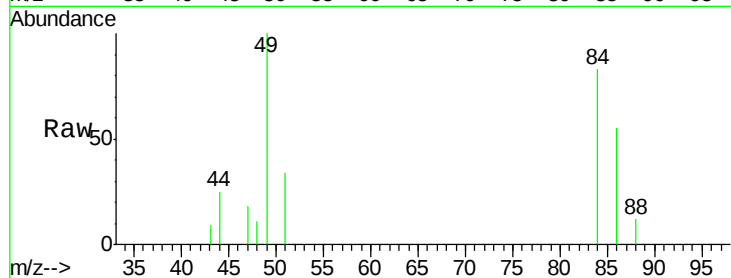
Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 2145

Ion	Ratio	Lower	Upper
84	100		
49	120.1	91.9	137.9
51	40.6	29.2	43.8
86	66.1	51.8	77.6

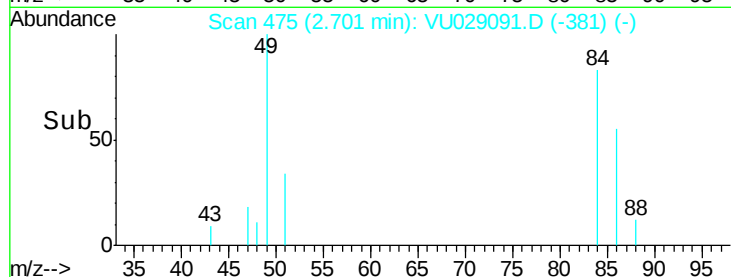


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



Time-->

2.65 2.70 2.75

1500

1000

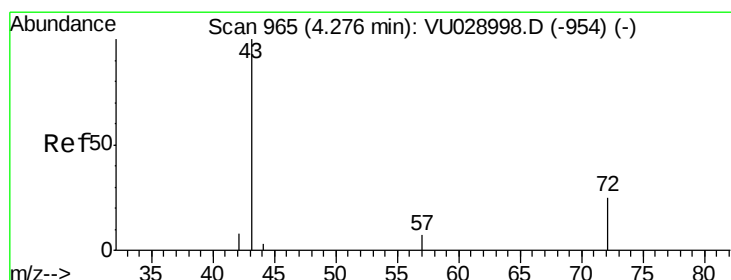
500

0

2.70

2.65 2.70 2.75

Time-->



#25

2-Butanone

Concen: 0.214 ug/l

RT: 4.29 min Scan# 970

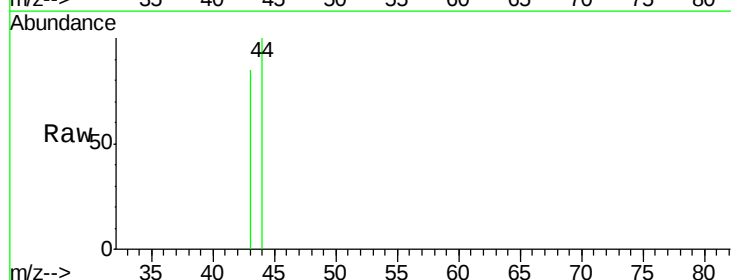
Delta R.T. 0.03 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

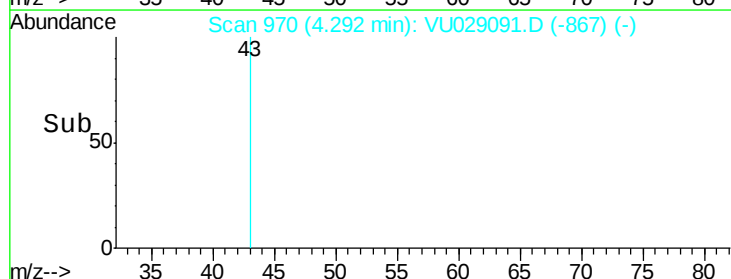
Tgt Ion: 43 Resp: 247

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



Time-->

4.26 4.28 4.30

200

150

100

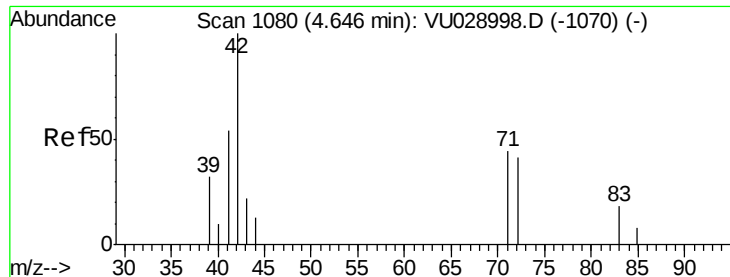
50

0

4.29

4.26 4.28 4.30

Time-->



#29

Tetrahydrofuran

Concen: 0.237 ug/l

RT: 4.65 min Scan# 1081

Delta R.T. 0.02 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

Instrument :

MSVOA_U

ClientSampleId :

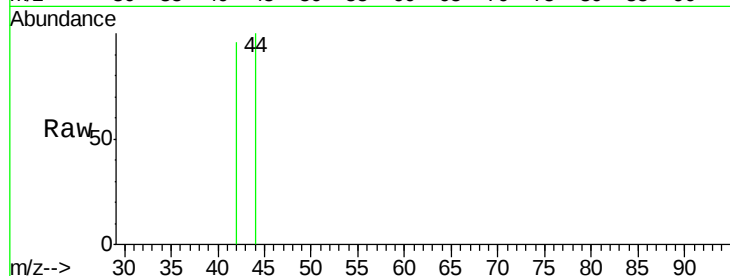
Tot Ion: 42 Resp: 166

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

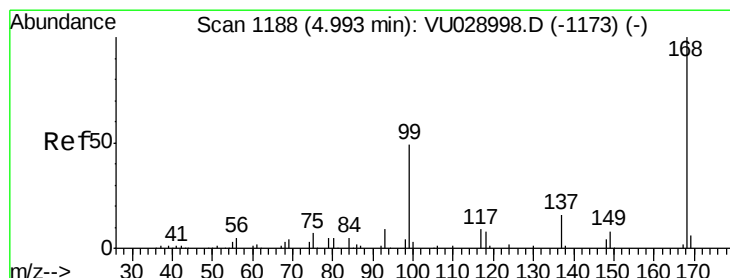
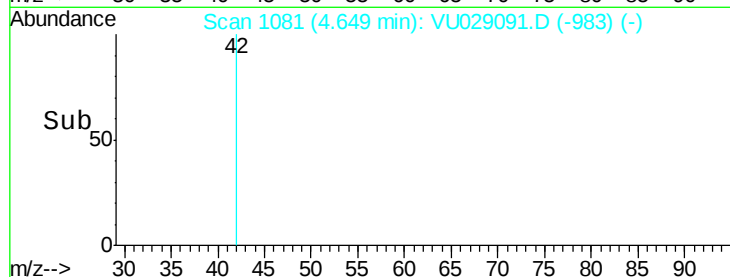
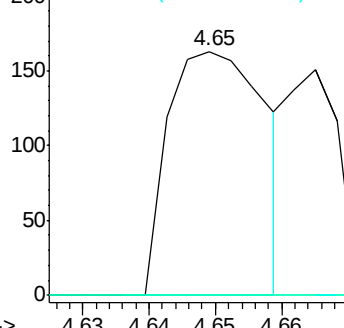
71 0.0 36.1 54.1#



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# 1184

Delta R.T. -0.01 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

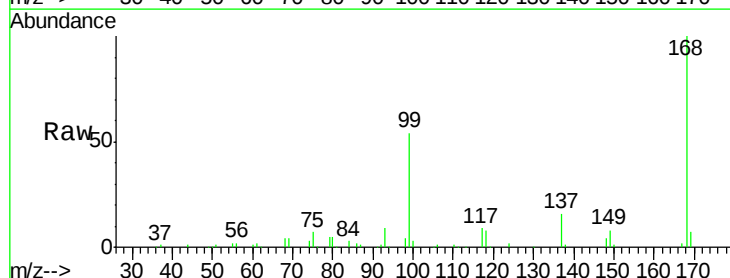
Tgt Ion: 56 Resp: 1766

Ion Ratio Lower Upper

56 100

69 170.1 26.7 40.1#

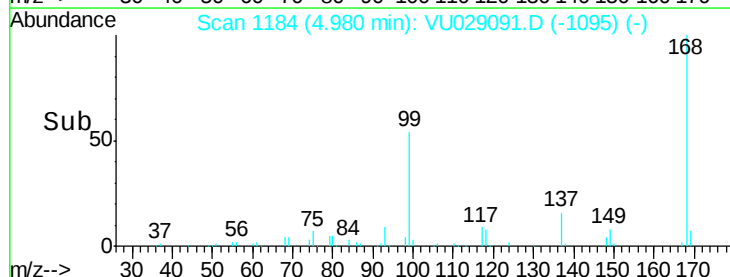
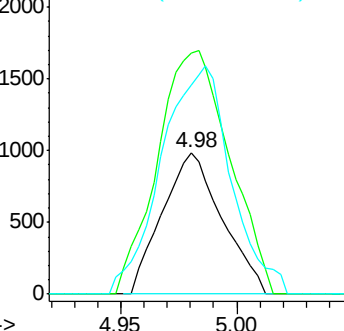
84 131.1 65.7 98.5#

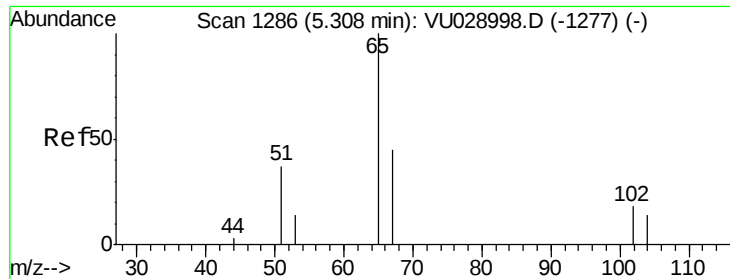


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

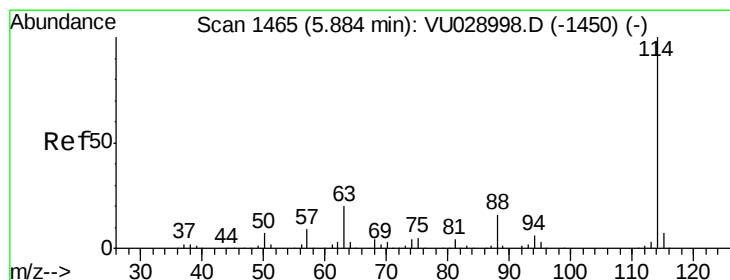
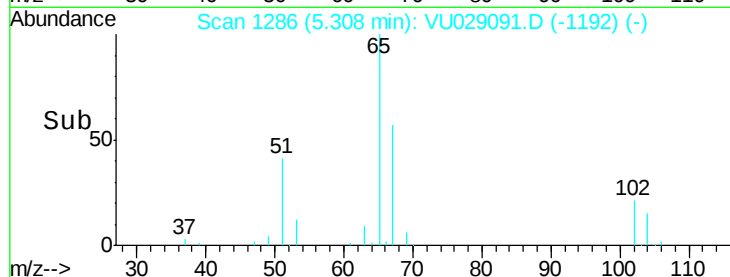
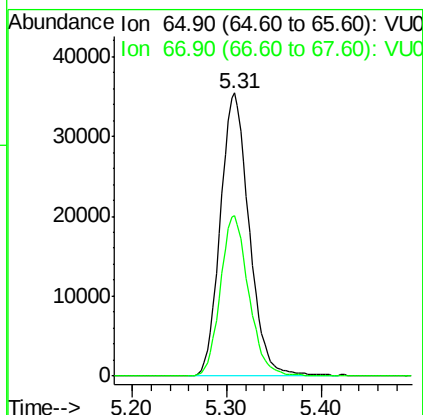
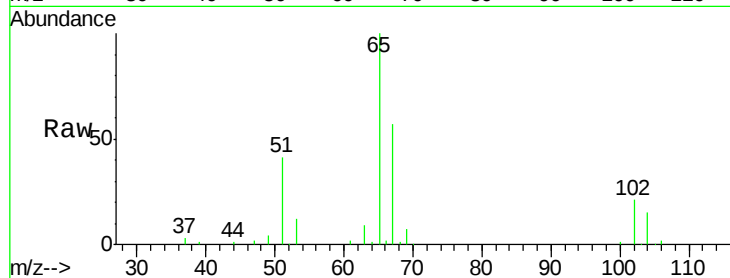




#33
 1,2-Dichloroethane-d4
 Concen: 55.290 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU029091.D
 Acq: 09 Jan 2019 15:49

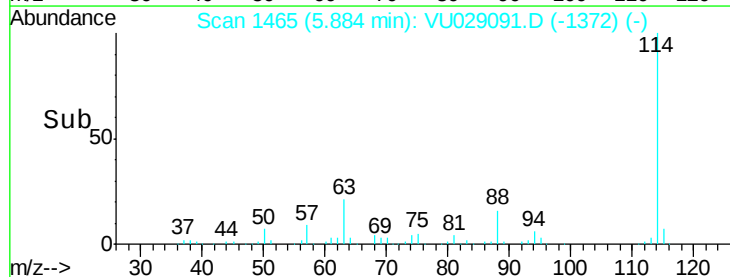
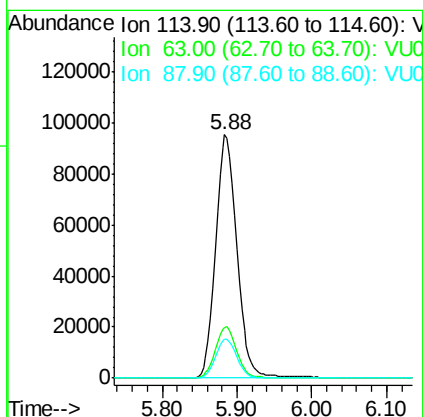
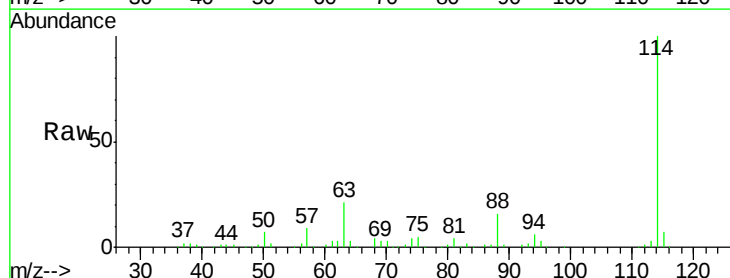
Instrument :
 MSVOA_U
 ClientSampleId :

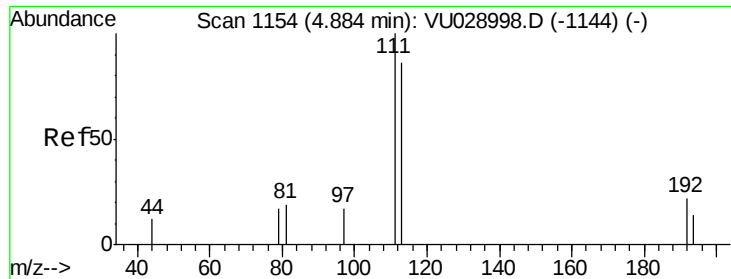
Tot Ion: 65 Resp: 75174
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029091.D
 Acq: 09 Jan 2019 15:49

Tgt Ion: 114 Resp: 189644
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.2
 88 16.1 0.0 30.4

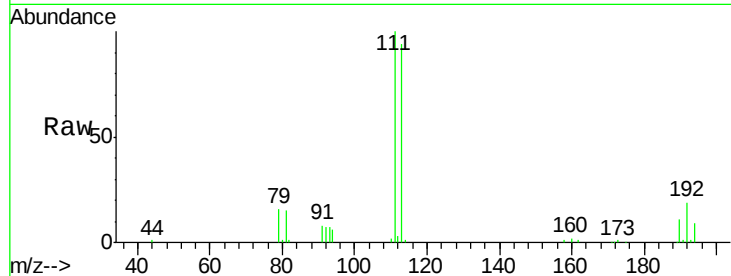




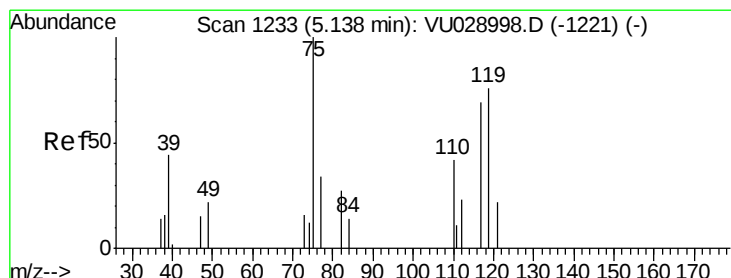
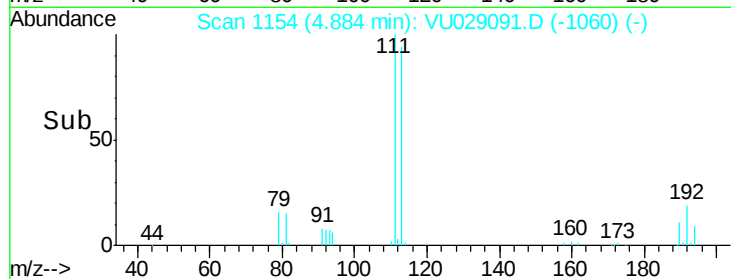
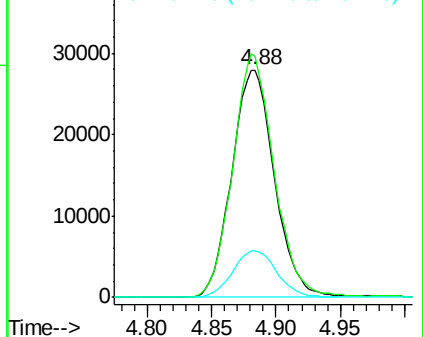
#35
 Dibromofluoromethane
 Concen: 52.271 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU029091.D
 Acq: 09 Jan 2019 15:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.4	122.2
192	21.2	16.8	25.2

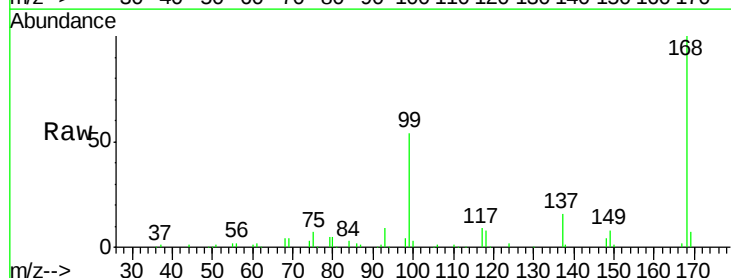


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

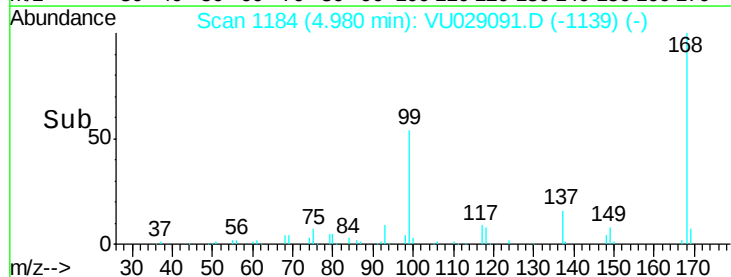
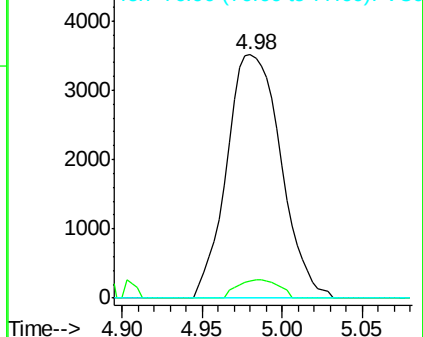


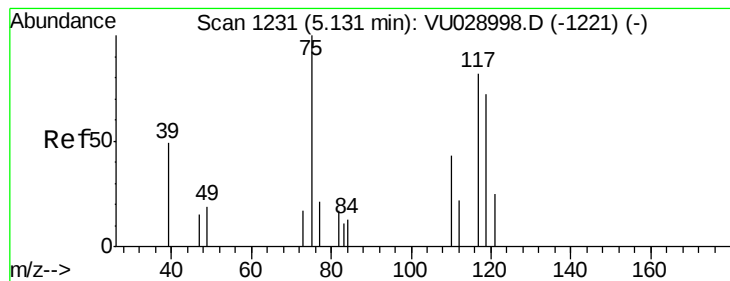
#36
 1,1-Dichloropropene
 Concen: 4.297 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029091.D
 Acq: 09 Jan 2019 15:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.7	18.4	55.4#
77	0.0	25.1	37.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.299 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

Instrument :

MSVOA_U

ClientSampleId :

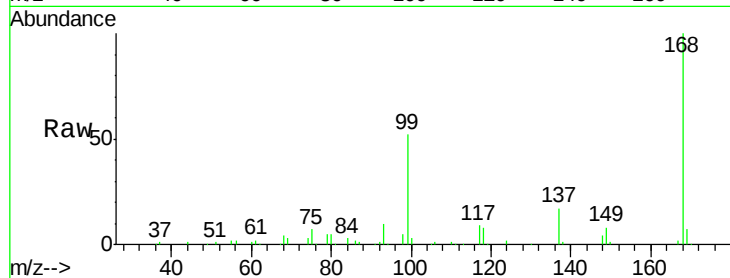
Tot Ion:117 Resp: 9959

Ion Ratio Lower Upper

117 100

119 3.7 74.6 111.8#

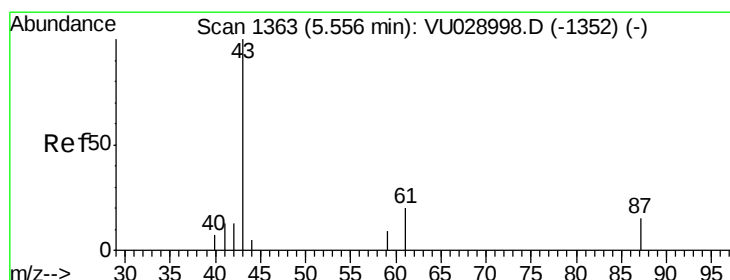
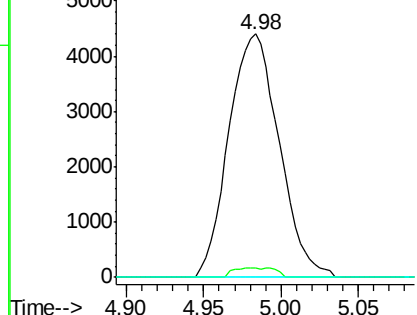
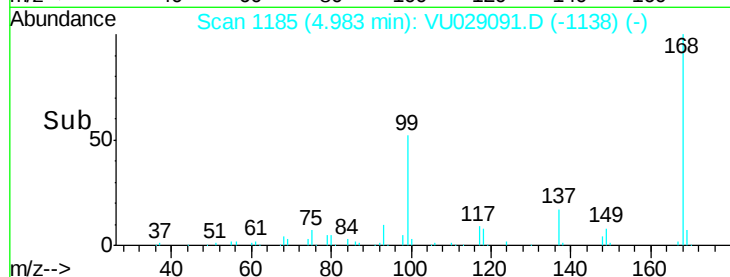
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.860 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

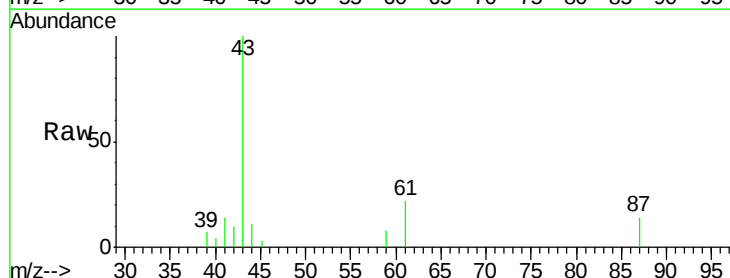
Tgt Ion: 43 Resp: 9127

Ion Ratio Lower Upper

43 100

61 21.2 17.8 26.6

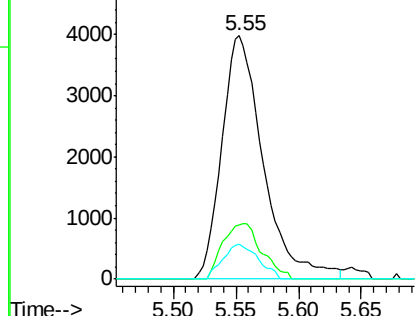
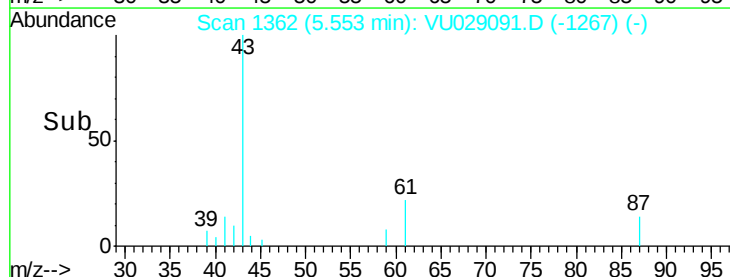
87 12.3 11.3 16.9

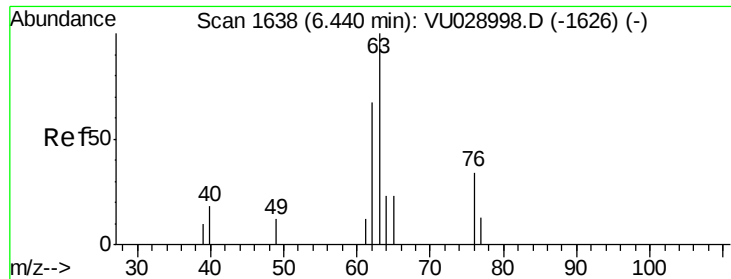


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.400 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

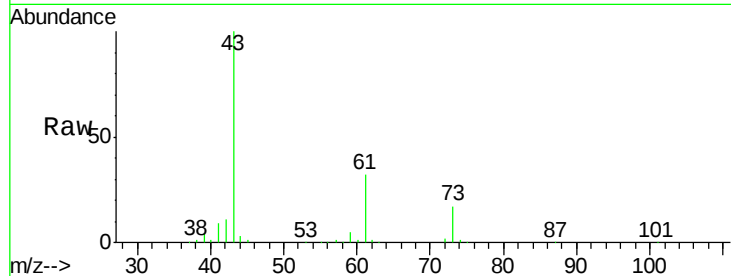
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 63 Resp: 624

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

6.70

400

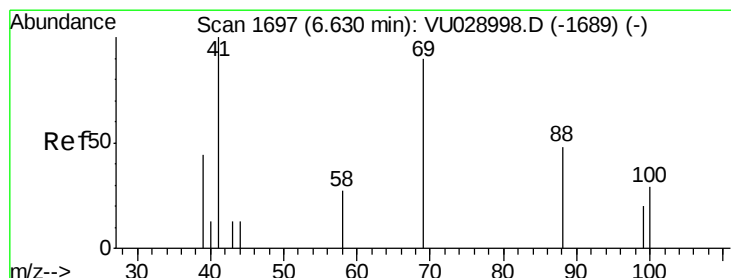
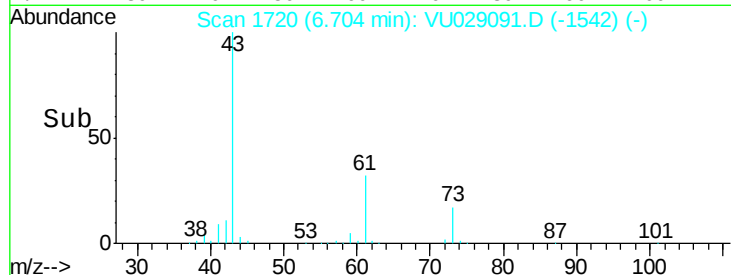
300

200

100

0

Time--> 6.66 6.68 6.70 6.72



#48

Methyl methacrylate

Concen: 35.470 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

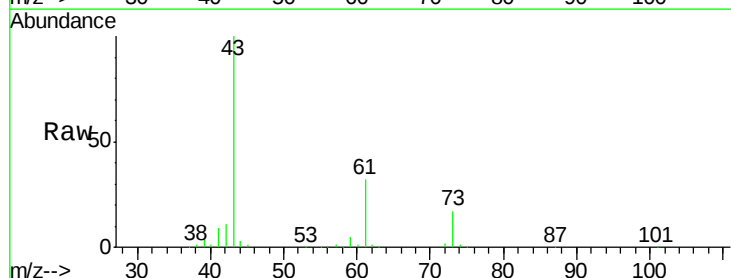
Tgt Ion: 41 Resp: 55127

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

39 48.4 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

6.70

40000

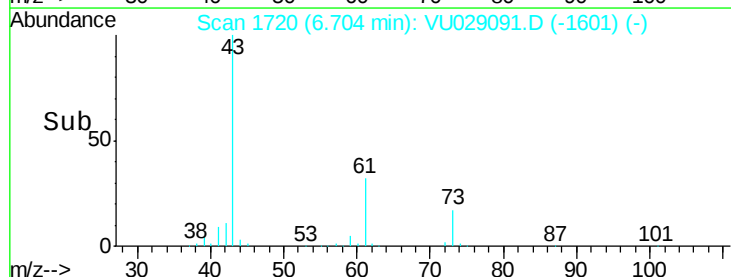
30000

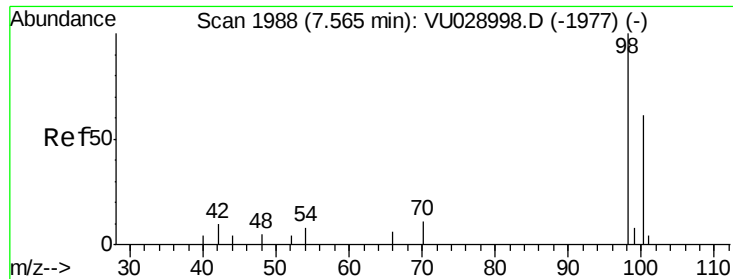
20000

10000

0

Time--> 6.60 6.70 6.80

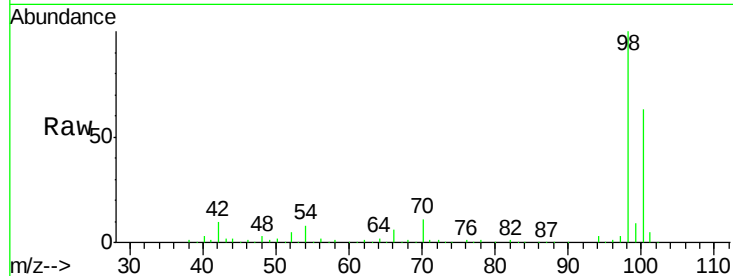




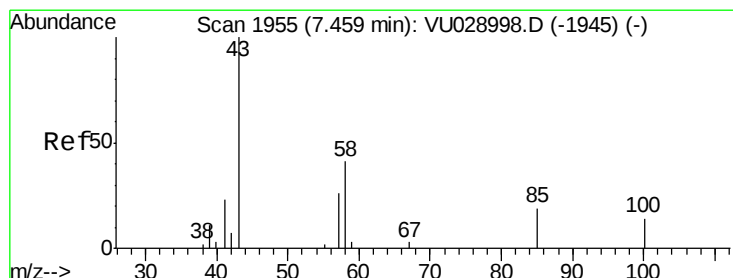
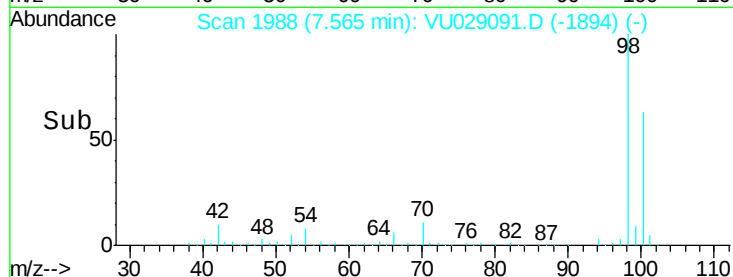
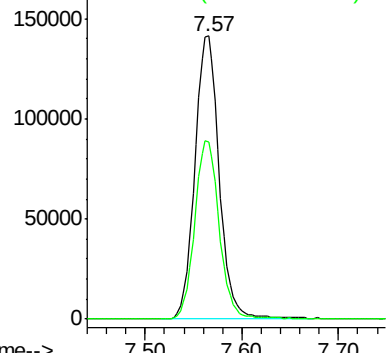
#50
Toluene-d8
Concen: 51.051 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 98 Resp: 247763
Ion Ratio Lower Upper
98 100
100 63.3 51.6 77.4

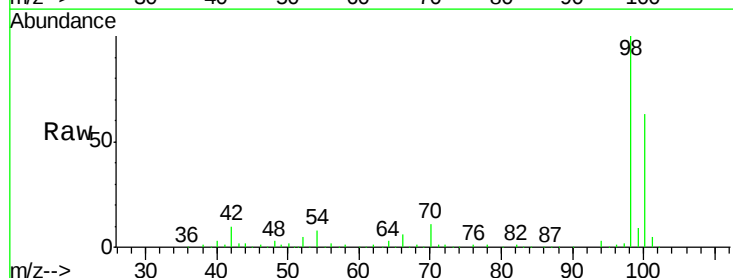


Abundance Ion 98.00 (97.70 to 98.70): VU028998.D (-1977) (-)
Ion 100.00 (99.70 to 100.70): VU028998.D (-1977) (-)

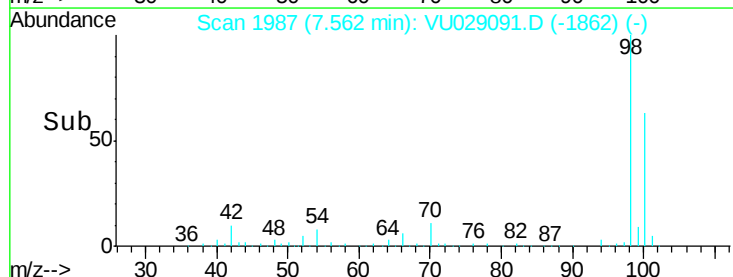
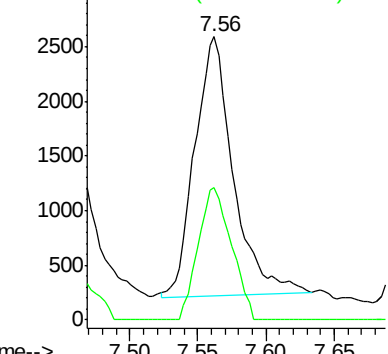


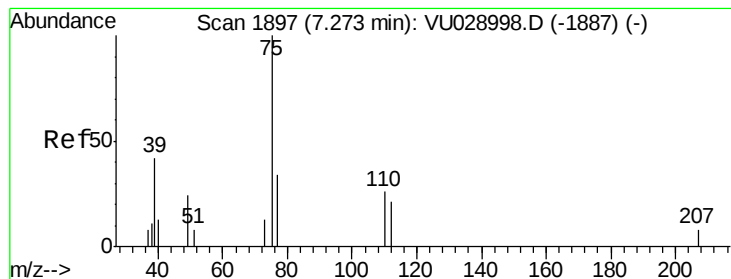
#51
4-Methyl-2-Pentanone
Concen: 2.148 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.10 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

Tgt Ion: 43 Resp: 4666
Ion Ratio Lower Upper
43 100
58 43.7 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1945) (-)
Ion 58.00 (57.70 to 58.70): VU028998.D (-1945) (-)





#54

cis-1,3-Dichloropropene

Concen: 9.540 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029091.D

Acq: 09 Jan 2019 15:49

Instrument :
MSVOA_U
ClientSampleId :

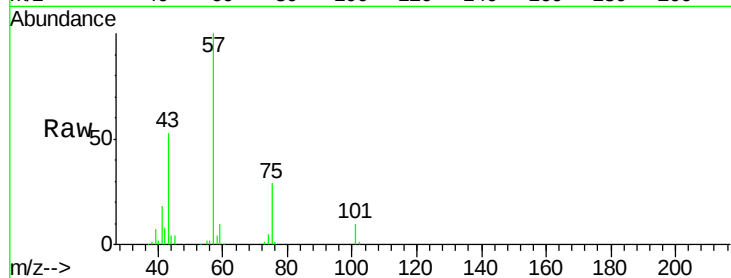
Tot Ion: 75 Resp: 22757

Ion Ratio Lower Upper

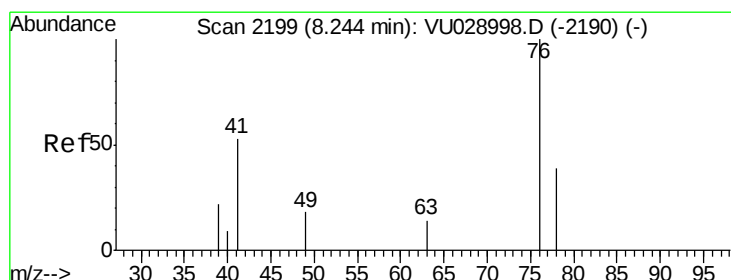
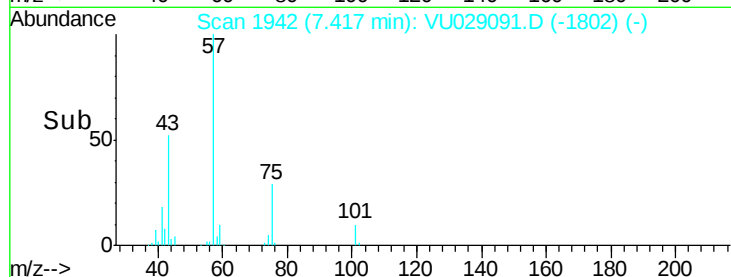
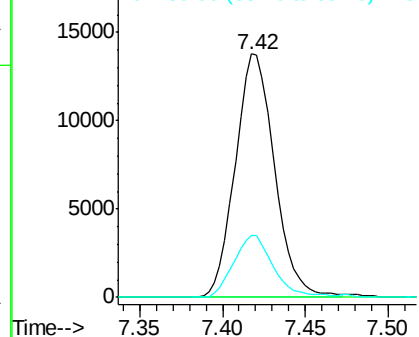
75 100

77 0.0 25.0 37.6#

39 25.6 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



#57

1,3-Dichloropropane

Concen: 2.037 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029091.D

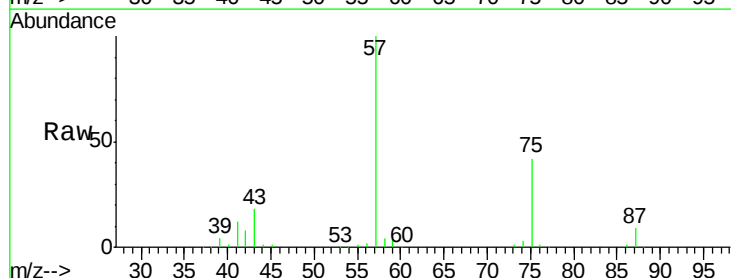
Acq: 09 Jan 2019 15:49

Tgt Ion: 76 Resp: 5027

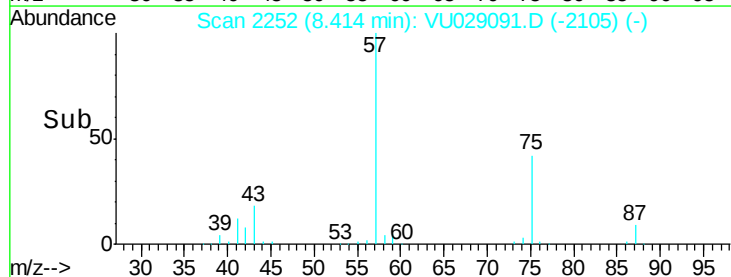
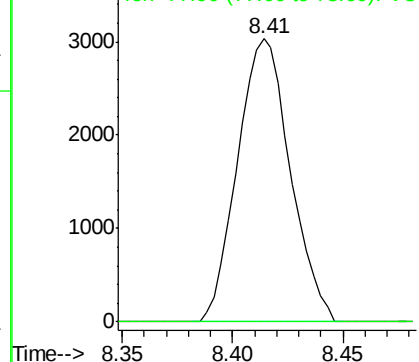
Ion Ratio Lower Upper

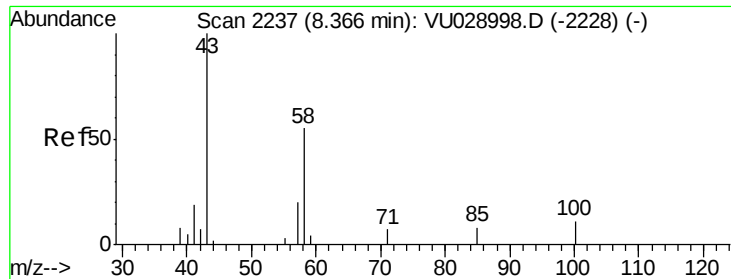
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0
Ion 77.90 (77.60 to 78.60): VU0

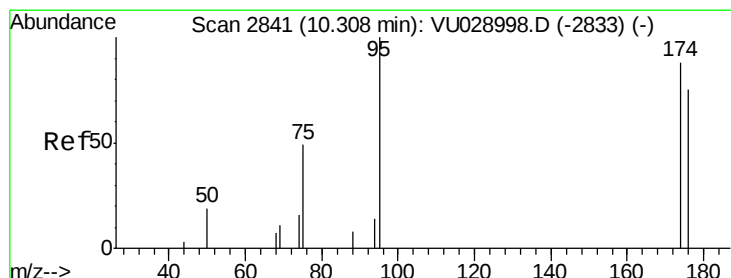
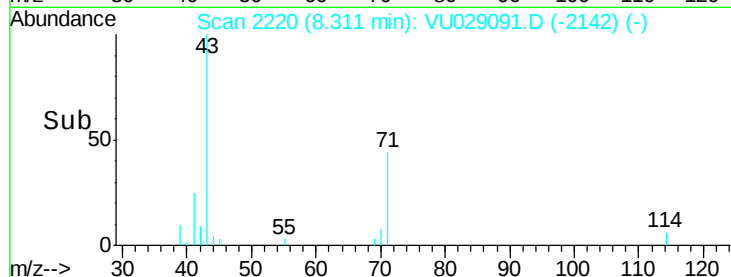
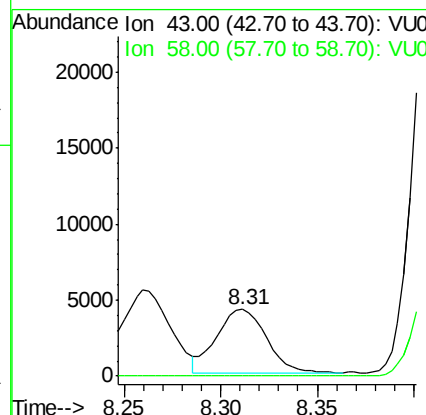
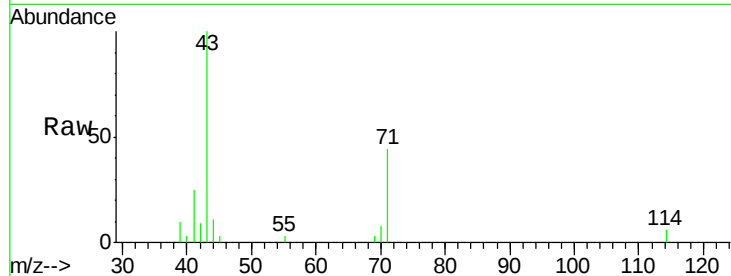




#59
2-Hexanone
Concen: 4.389 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

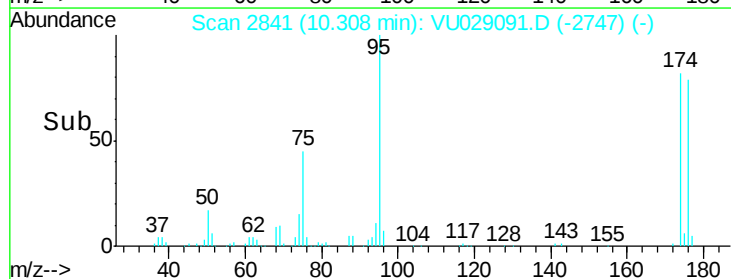
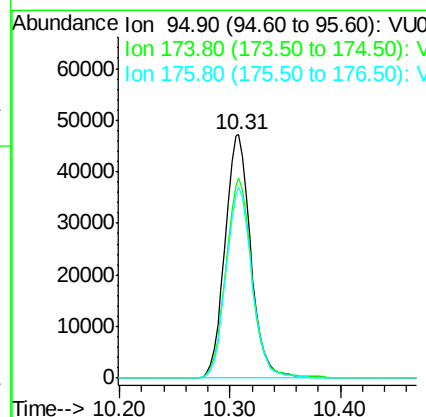
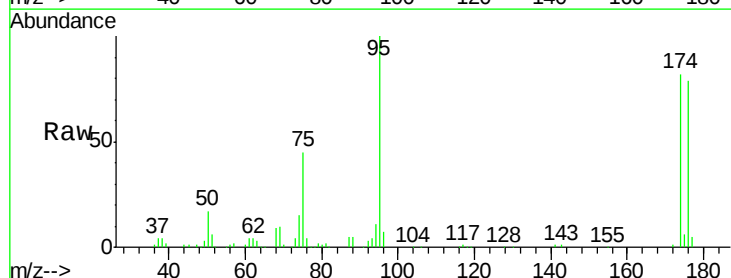
Instrument :
MSVOA_U
ClientSampleId :

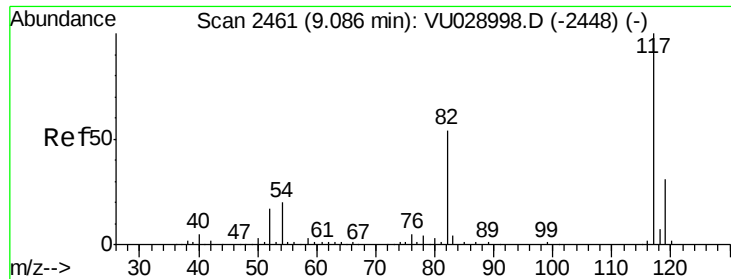
Tot Ion: 43 Resp: 7484
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 43.887 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

Tgt Ion: 95 Resp: 76546
Ion Ratio Lower Upper
95 100
174 82.9 0.0 170.6
176 79.1 0.0 165.0

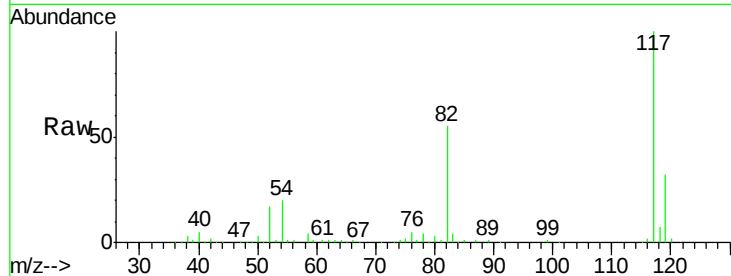




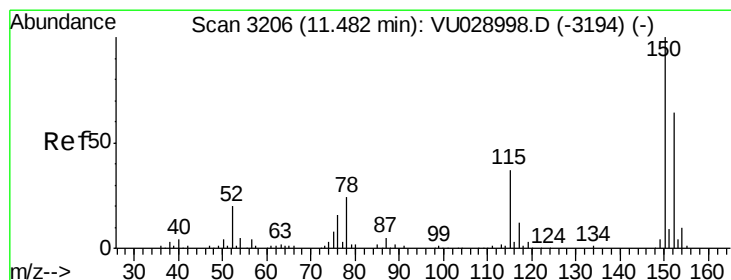
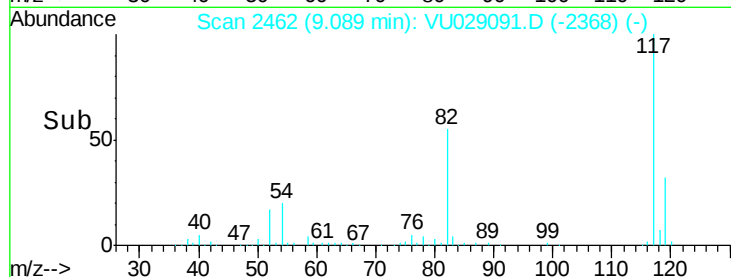
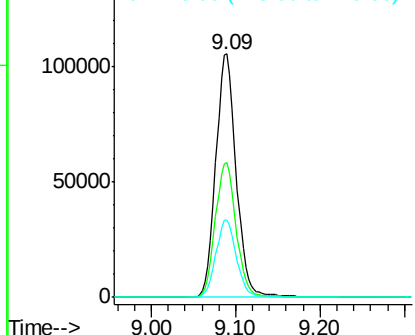
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 177951
Ion Ratio Lower Upper
117 100
82 55.3 43.9 65.9
119 31.8 26.0 39.0

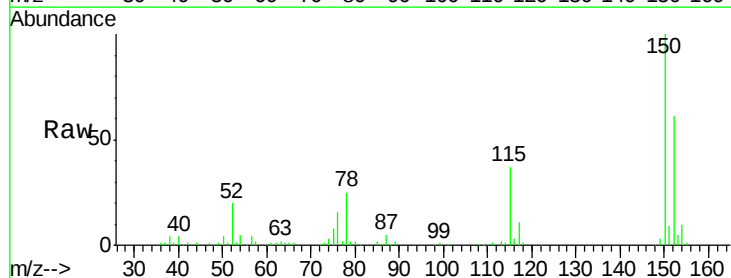


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

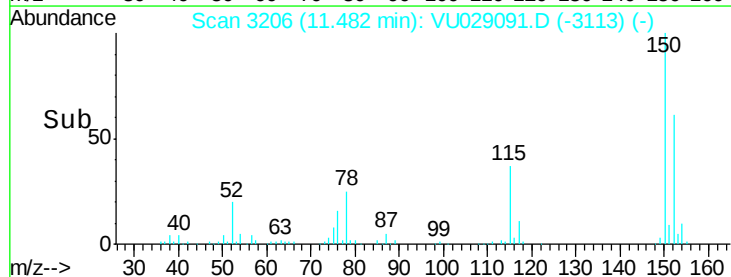
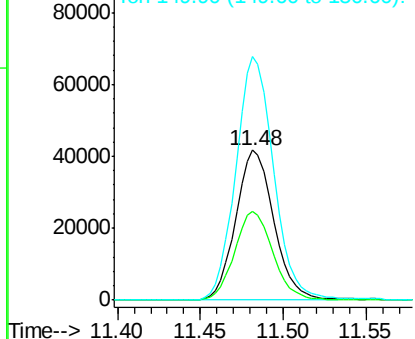


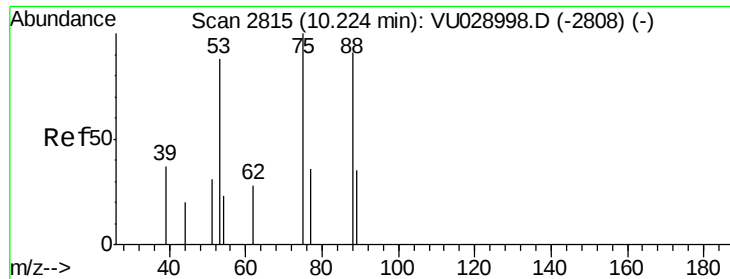
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU029091.D
Acq: 09 Jan 2019 15:49

Tgt Ion:152 Resp: 66674
Ion Ratio Lower Upper
152 100
115 59.7 40.1 120.3
150 162.3 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

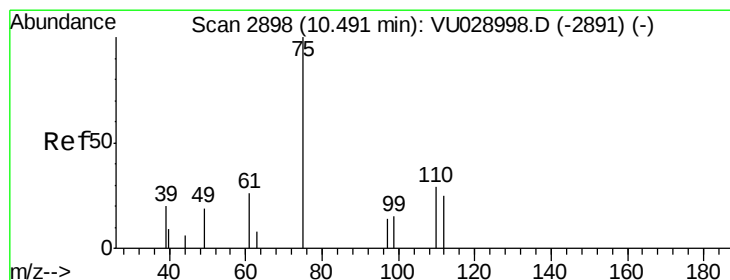
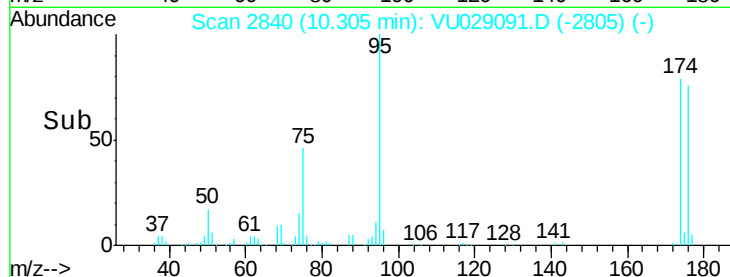
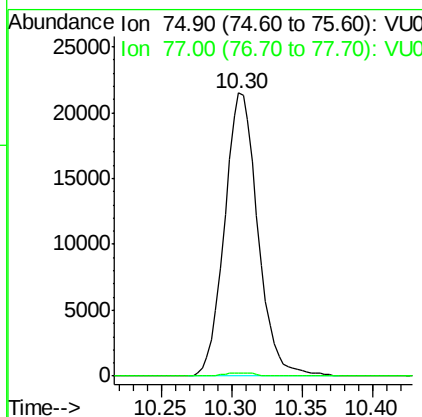
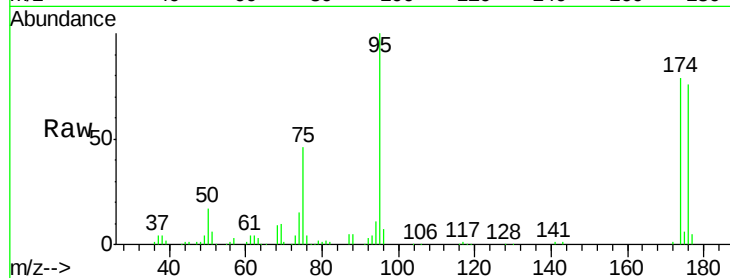




#76
 1,2,3-Trichloropropane
 Concen: 21.697 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029091.D
 Acq: 09 Jan 2019 15:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 35444
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.957 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU029091.D
 Acq: 09 Jan 2019 15:49

Tgt Ion: 75 Resp: 35444
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

