

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027276.D
 Acq On : 28 Sep 2018 17:01
 Operator : MD/SY
 Sample : J5041-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 28 17:39:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	124530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	205727	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	194890	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	95796	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	112028	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	
35) Dibromofluoromethane	4.88	113	81367	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
50) Toluene-d8	7.57	98	322162	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
62) 4-Bromofluorobenzene	10.31	95	108175	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	

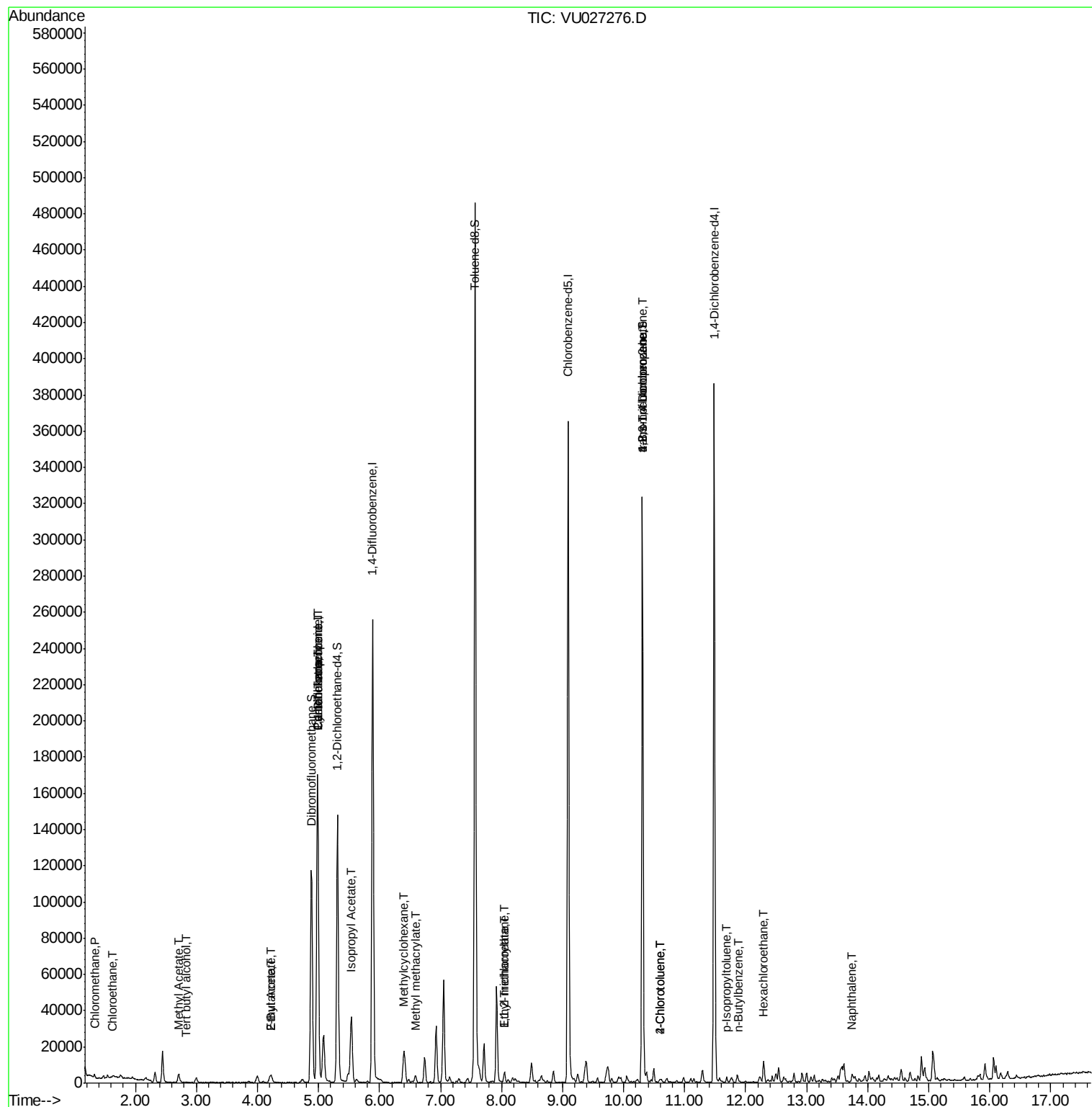
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1277	0.456	ug/l	99
6) Chloroethane	1.61	64	687	0.411	ug/l #	43
11) Tert butyl alcohol	2.84	59	420	0.731	ug/l #	72
16) Acetone	2.32	43	6046	Below Cal		95
18) Methyl Acetate	2.71	43	3299	0.925	ug/l #	55
25) 2-Butanone	4.23	43	1682	0.799	ug/l #	53
31) Cyclohexane	4.99	56	5046	0.785	ug/l #	23
36) 1,1-Dichloropropene	4.98	75	10771	3.923	ug/l #	47
37) Ethyl Acetate	4.23	43	1682	0.453	ug/l #	70
38) Carbon Tetrachloride	4.99	117	12141	4.647	ug/l #	16
39) Methylcyclohexane	6.41	83	6613	2.216	ug/l #	75
43) Isopropyl Acetate	5.54	43	7139	1.317	ug/l #	62
48) Methyl methacrylate	6.59	41	1177	1.403	ug/l #	34
55) 1,1,2-Trichloroethane	8.05	97	2172	1.071	ug/l #	13
56) Ethyl methacrylate	8.04	69	440	2.313	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	57539	19.771	ug/l #	36
79) 2-Chlorotoluene	10.59	91	1344	0.248	ug/l #	43
81) trans-1,4-Dichloro-2-buten	10.31	75	57539	63.271	ug/l #	100
82) 4-Chlorotoluene	10.59	91	1344	0.221	ug/l #	47
86) p-Isopropyltoluene	11.69	119	1751	1.180	ug/l	99
89) n-Butylbenzene	11.88	91	362	2.445	ug/l #	58
90) Hexachloroethane	12.29	117	2023	1.532	ug/l #	13
95) Naphthalene	13.75	128	4454	2.232	ug/l	95

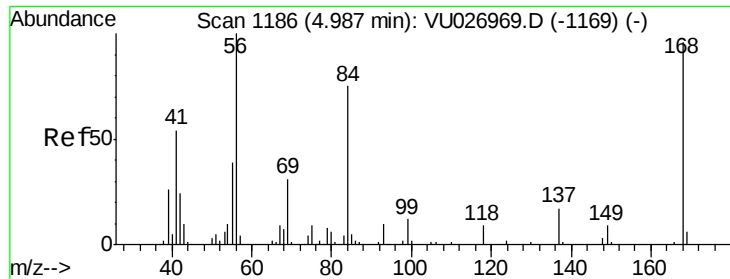
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

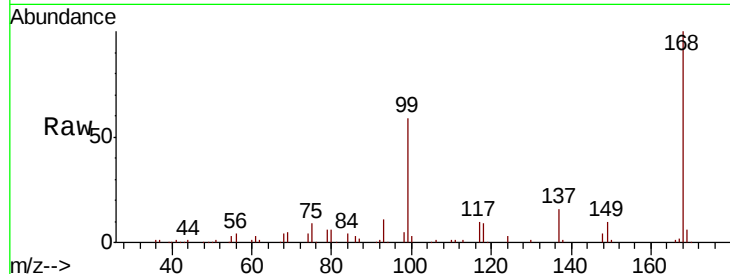
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 124530

Ion Ratio Lower Upper

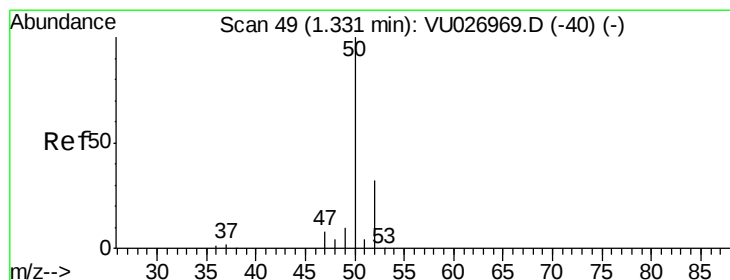
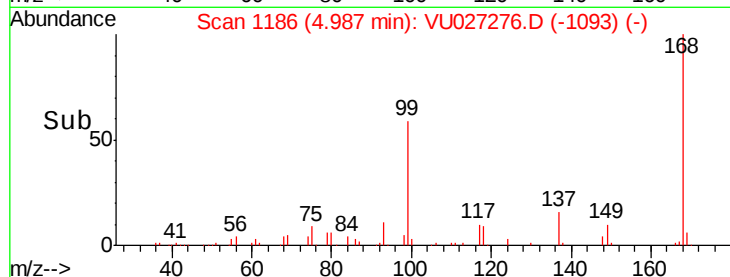
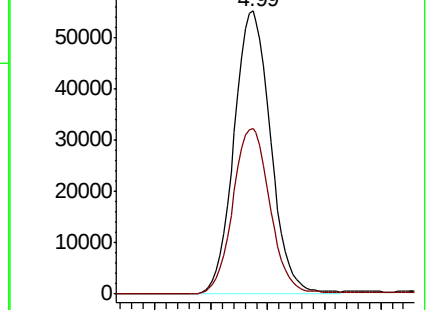
168 100

99 58.7 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027276.D (-1093) (-)



#3

Chloromethane

Concen: 0.456 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027276.D

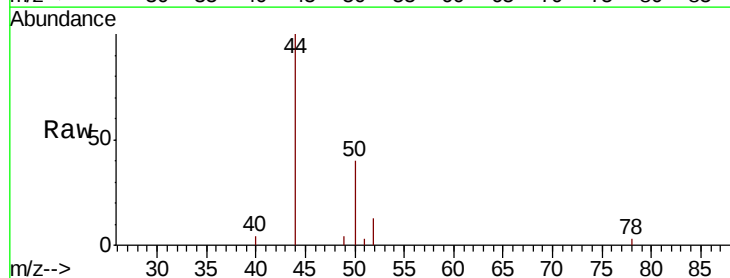
Acq: 28 Sep 2018 17:01

Tgt Ion: 50 Resp: 1277

Ion Ratio Lower Upper

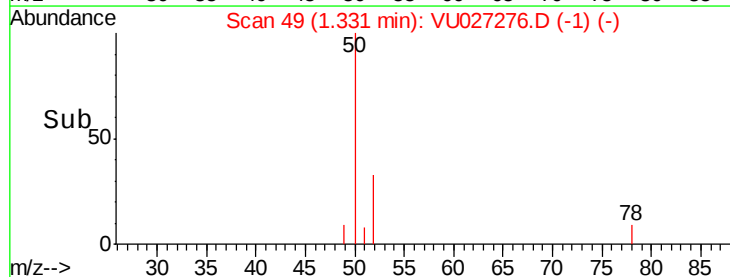
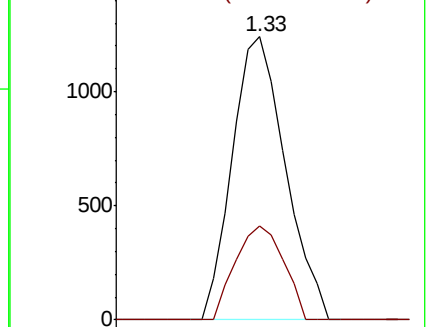
50 100

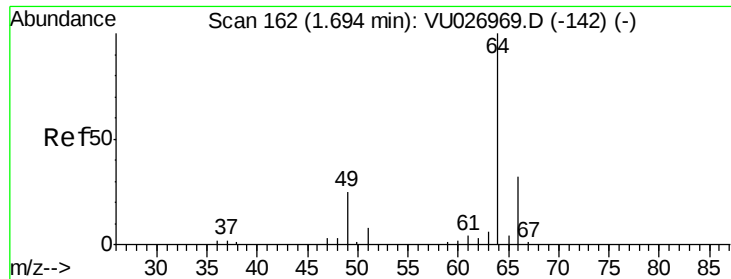
52 33.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VU026969.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU027276.D (-1) (-)





#6

Chloroethane

Concen: 0.411 ug/l

RT: 1.61 min Scan# 136

Delta R.T. -0.08 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

Instrument :

MSVOA_U

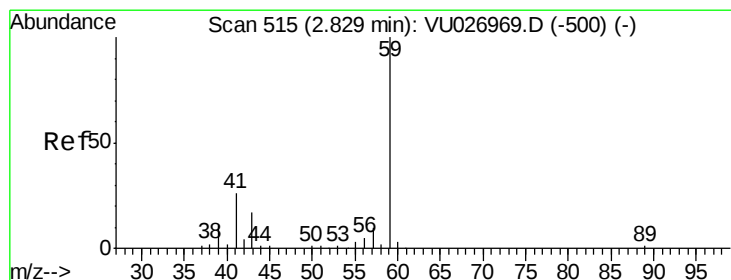
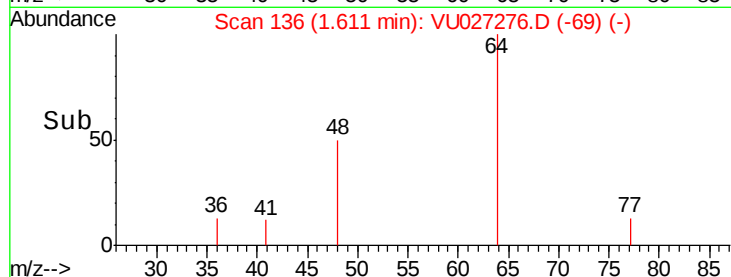
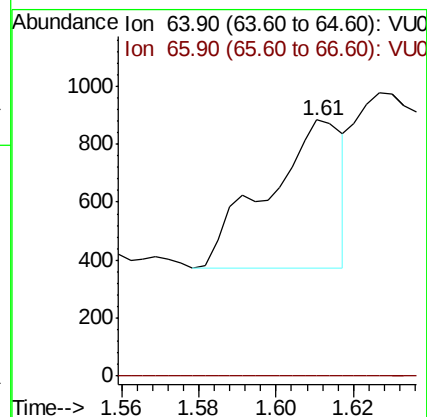
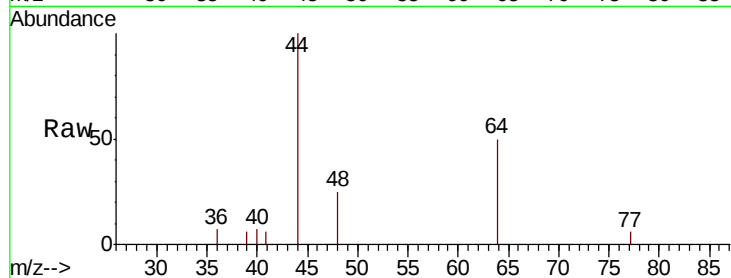
ClientSampleId :

Tot Ion: 64 Resp: 687

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#11

Tert butyl alcohol

Concen: 0.731 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.01 min

Lab File: VU027276.D

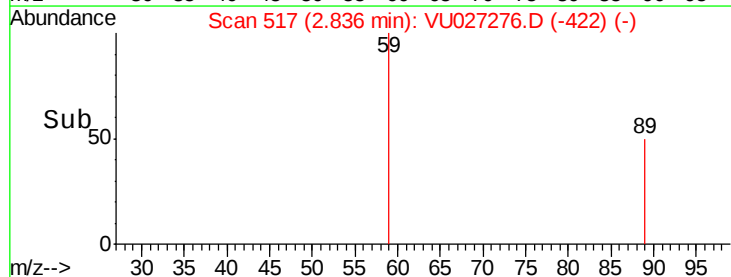
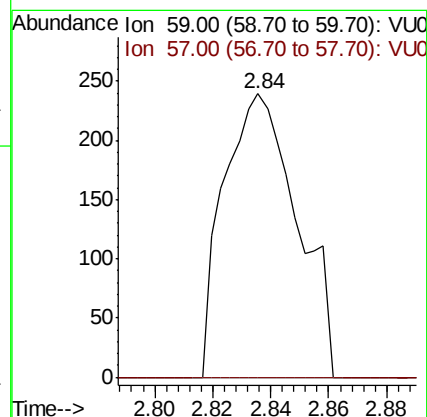
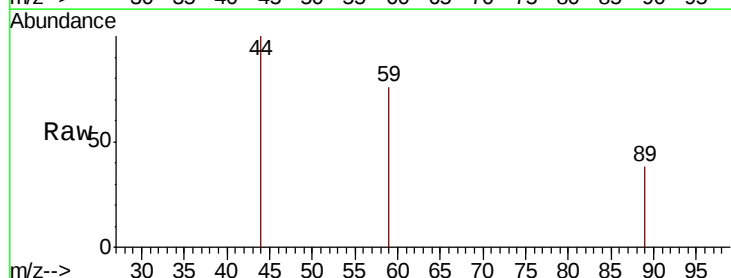
Acq: 28 Sep 2018 17:01

Tgt Ion: 59 Resp: 420

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

Instrument :

MSVOA_U

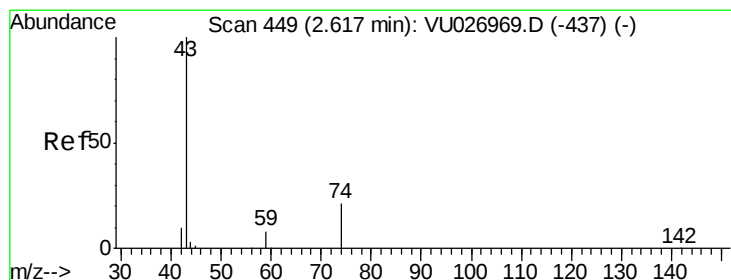
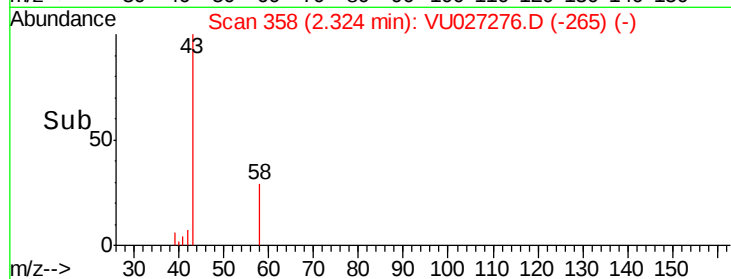
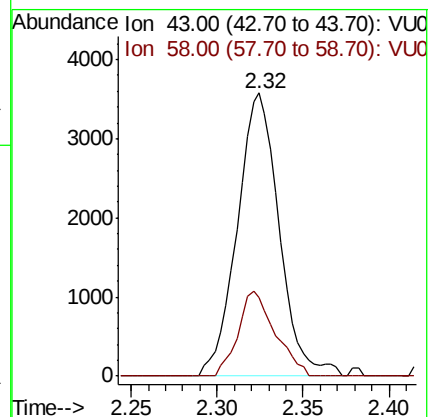
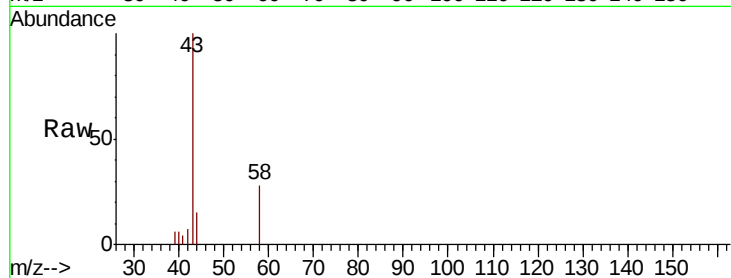
ClientSampleId :

Tot Ion: 43 Resp: 6046

Ion Ratio Lower Upper

43 100

58 28.0 24.6 36.8



#18

Methyl Acetate

Concen: 0.925 ug/l

RT: 2.71 min Scan# 478

Delta R.T. 0.09 min

Lab File: VU027276.D

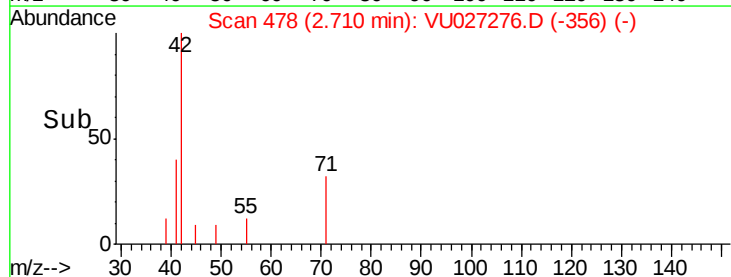
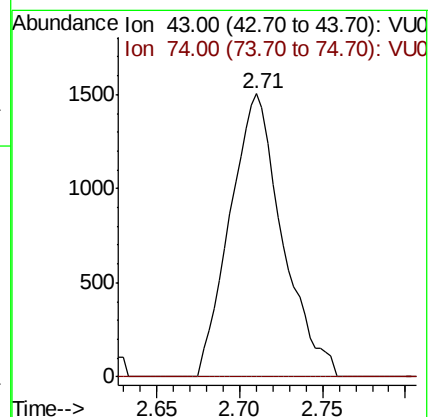
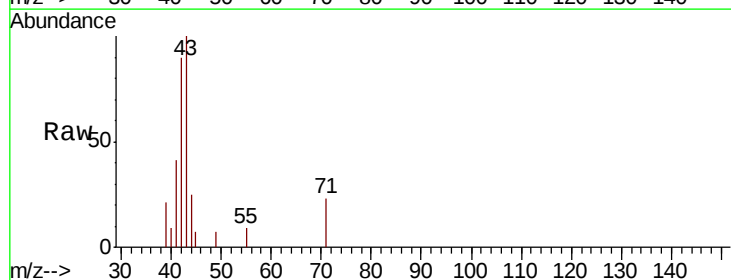
Acq: 28 Sep 2018 17:01

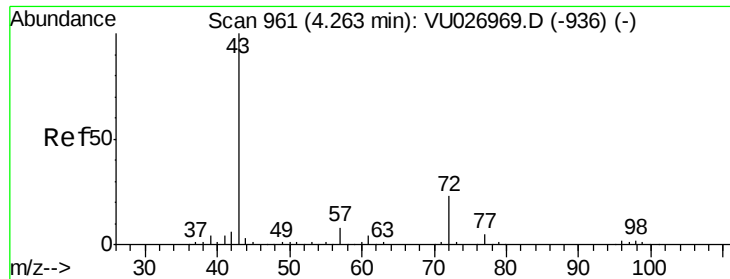
Tgt Ion: 43 Resp: 3299

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#

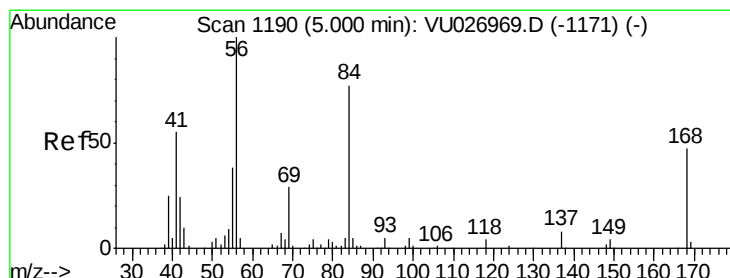
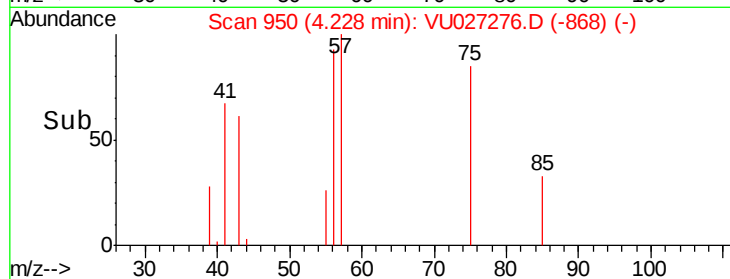
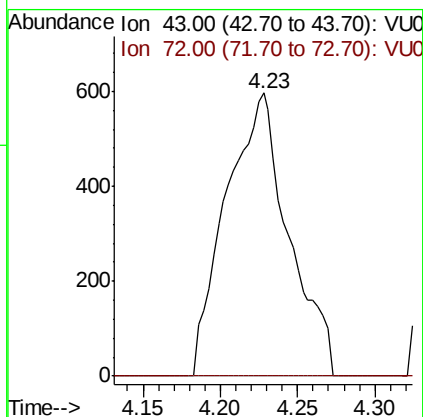
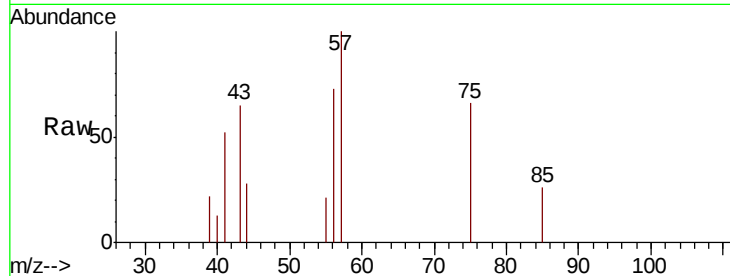




#25
2-Butanone
Concen: 0.799 ug/l
RT: 4.23 min Scan# 950
Delta R.T. -0.04 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

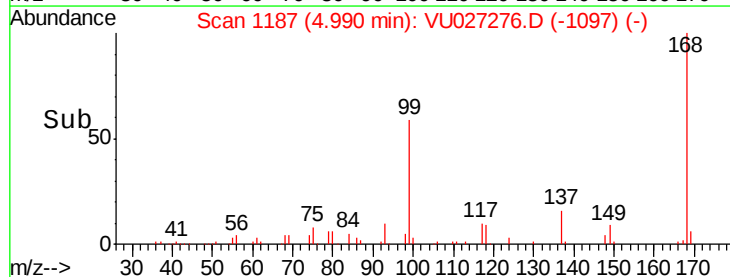
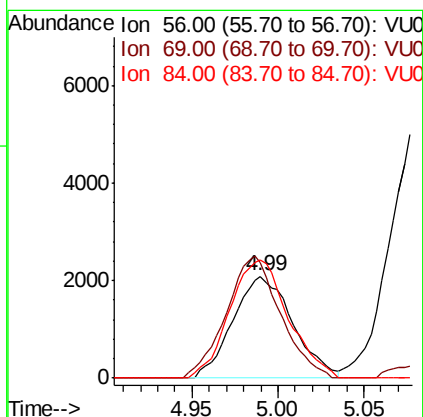
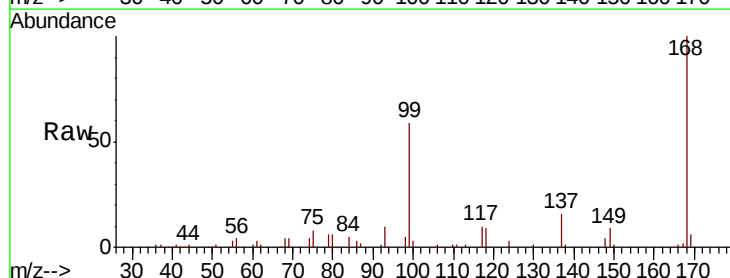
Instrument :
MSVOA_U
ClientSampleId :

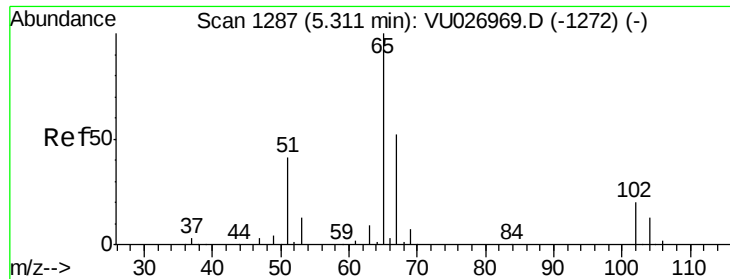
Tot Ion: 43 Resp: 1682
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#



#31
Cyclohexane
Concen: 0.785 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.01 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

Tgt Ion: 56 Resp: 5046
Ion Ratio Lower Upper
56 100
69 114.2 23.0 34.4#
84 116.0 61.4 92.2#

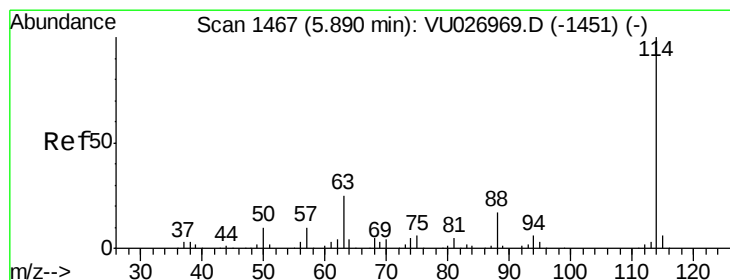
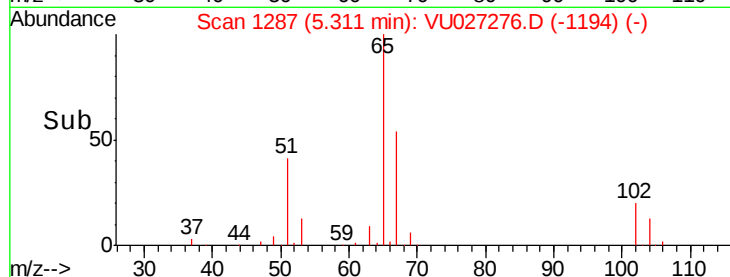
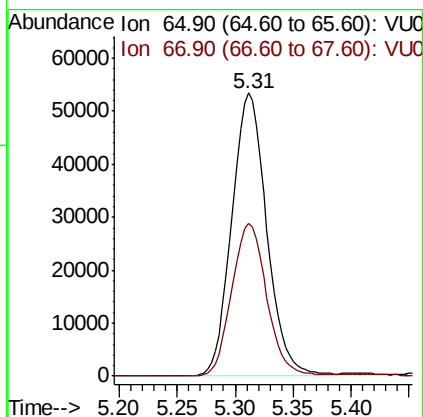
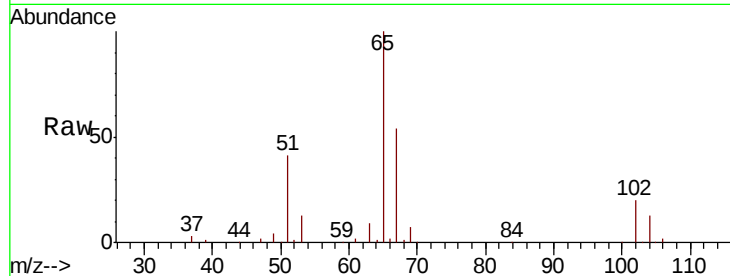




#33
 1,2-Dichloroethane-d4
 Concen: 44.697 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

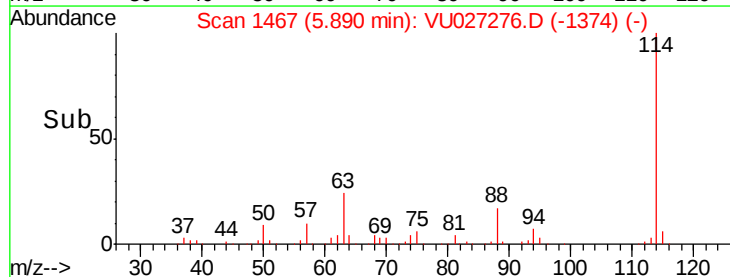
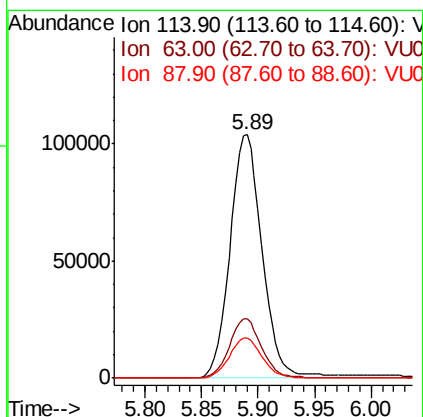
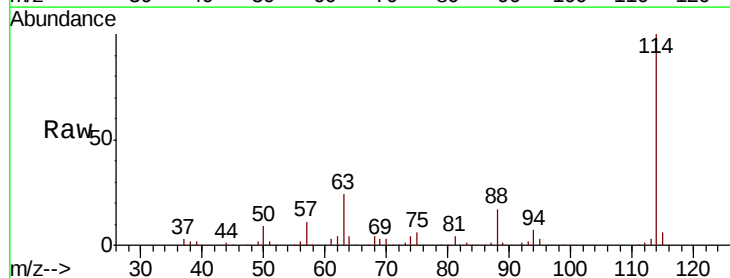
Instrument :
 MSVOA_U
 ClientSampleId :

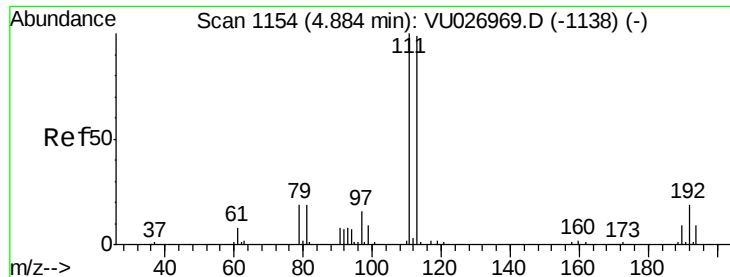
Tot Ion: 65 Resp: 112028
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

Tgt Ion: 114 Resp: 205727
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.2
 88 16.5 0.0 33.8

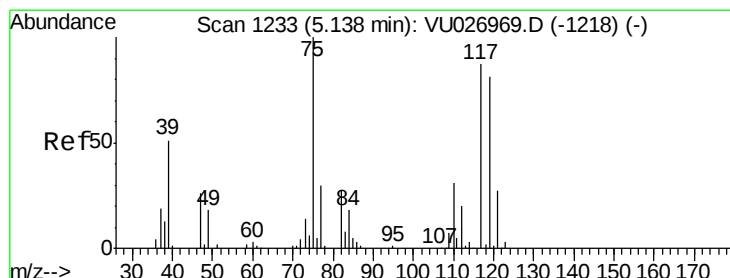
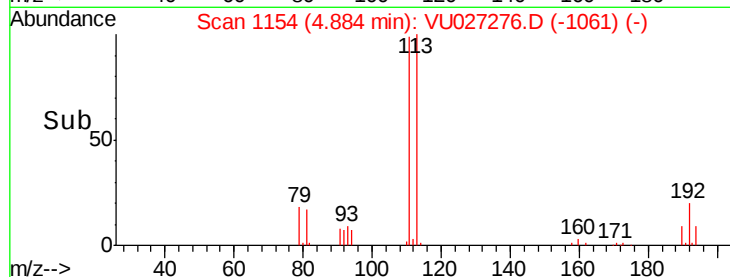
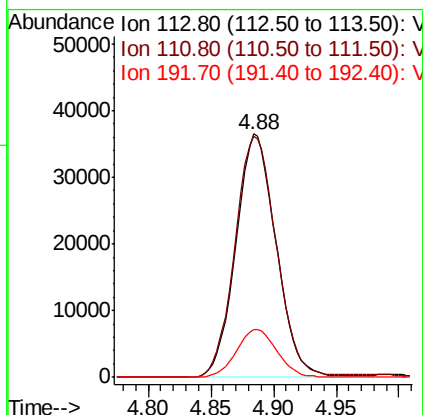
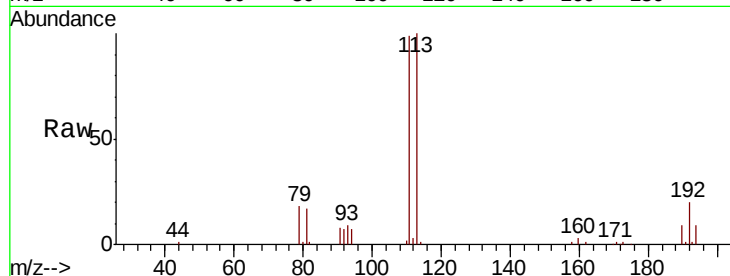




#35
 Dibromofluoromethane
 Concen: 45.629 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

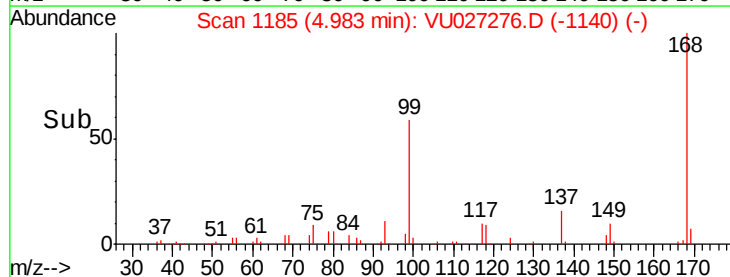
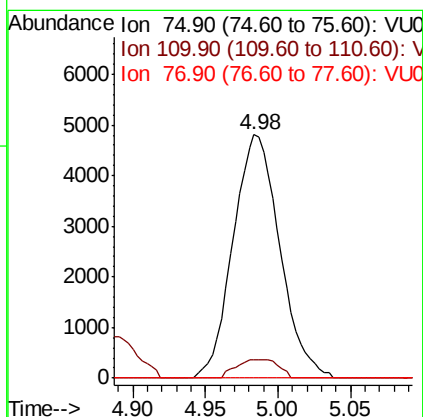
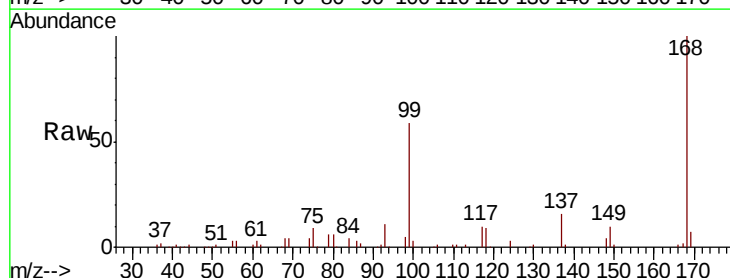
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 ClientSampleId :

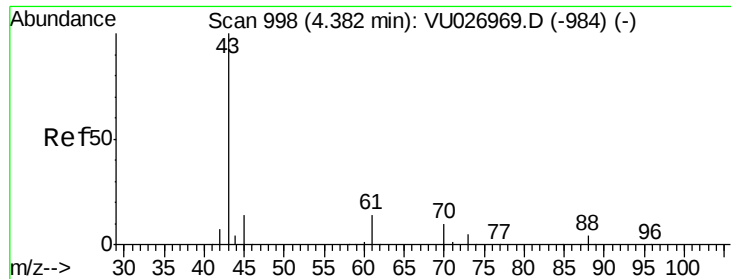
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	19.9	15.2	22.8



#36
 1,1-Dichloropropene
 Concen: 3.923 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.0	16.1	48.2#
77	0.0	24.6	36.8#

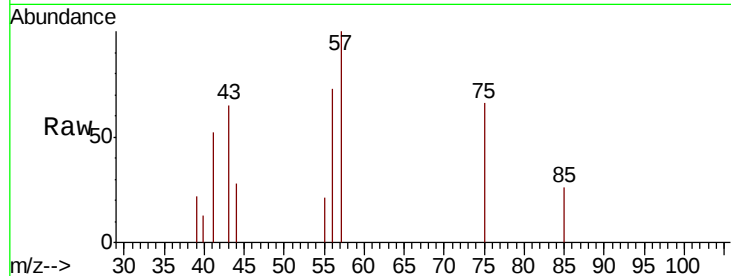




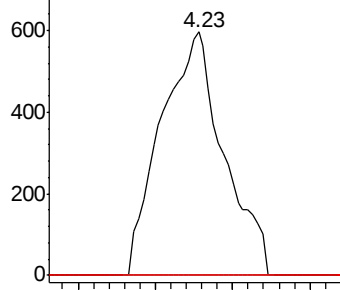
#37
Ethyl Acetate
Concen: 0.453 ug/l
RT: 4.23 min Scan# 950
Delta R.T. -0.15 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

Instrument :
MSVOA_U
ClientSampleId :

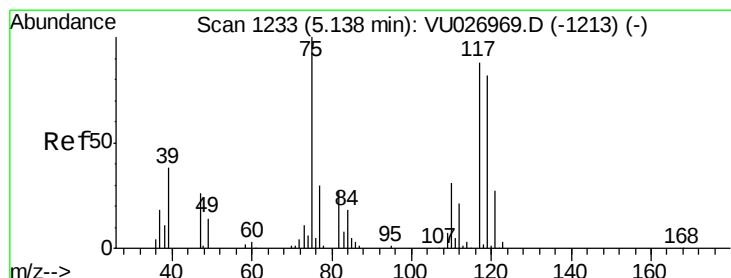
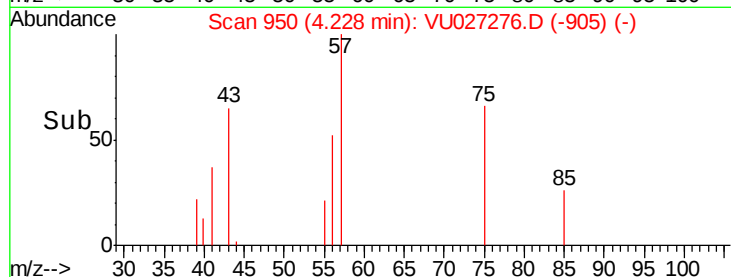
Tot Ion: 43 Resp: 1682
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0

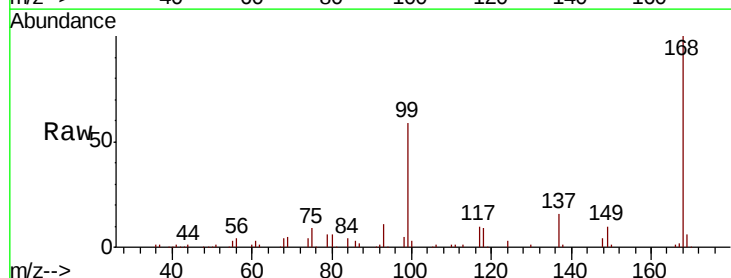


Time-->

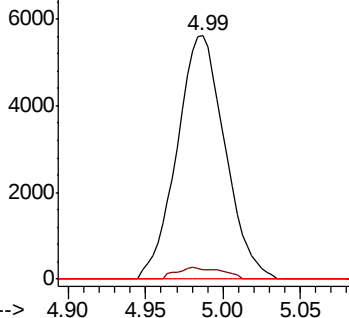


#38
Carbon Tetrachloride
Concen: 4.647 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

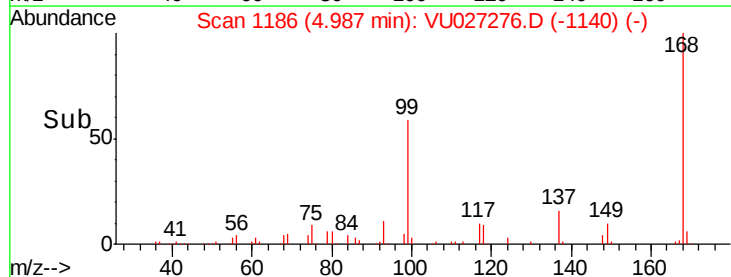
Tgt Ion: 117 Resp: 12141
Ion Ratio Lower Upper
117 100
119 4.0 74.4 111.6#
121 0.0 24.2 36.4#

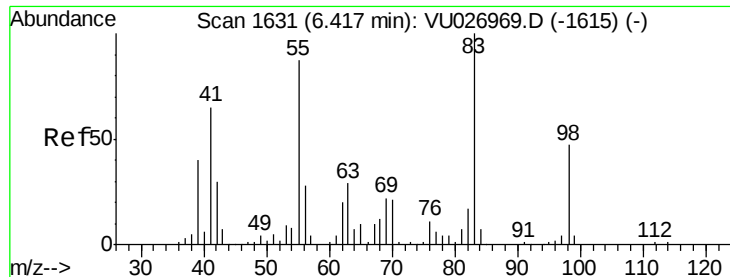


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



Time-->

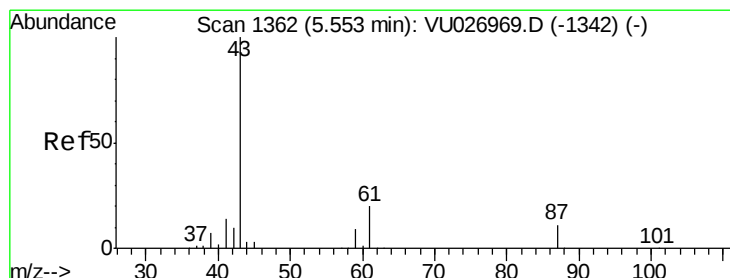
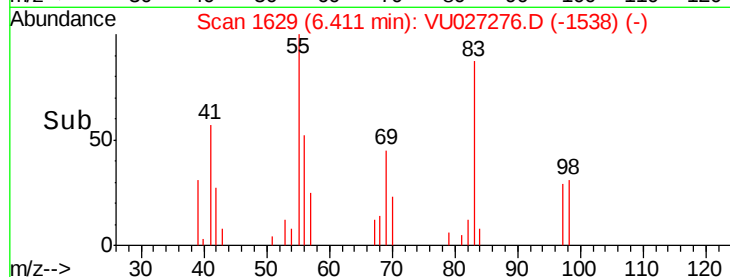
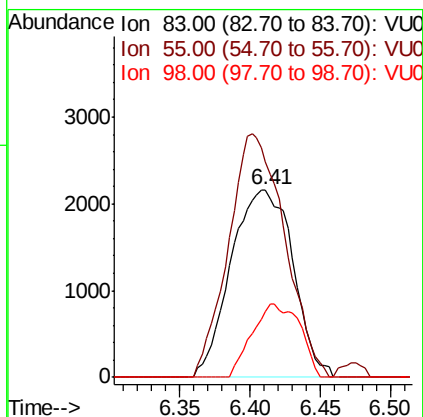
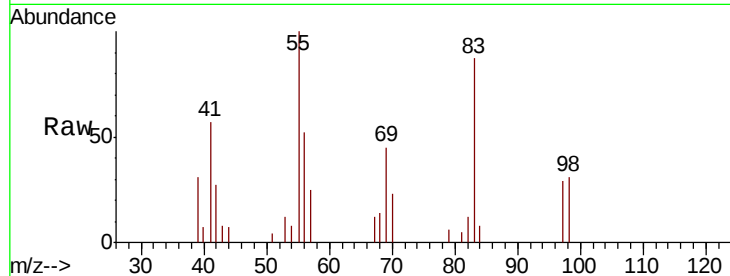




#39
Methylcyclohexane
Concen: 2.216 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

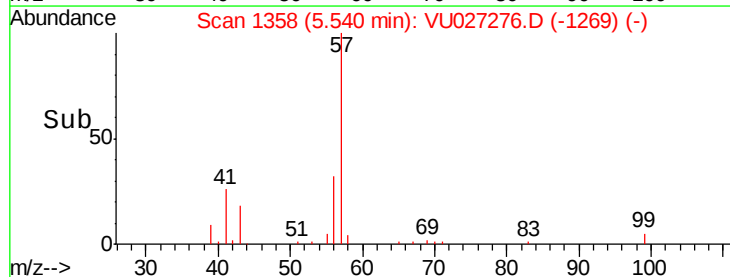
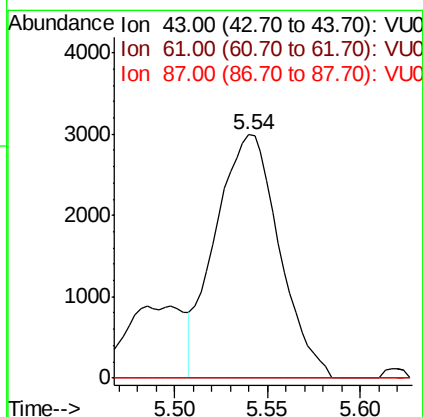
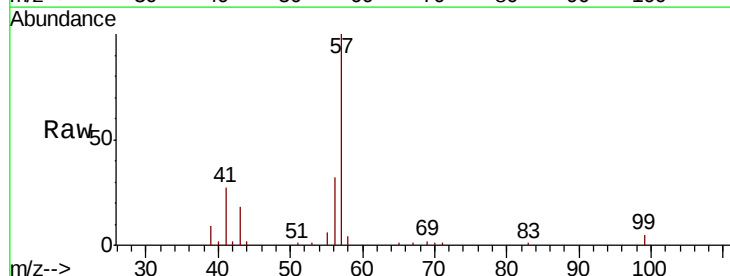
Instrument :
MSVOA_U
ClientSampleId :

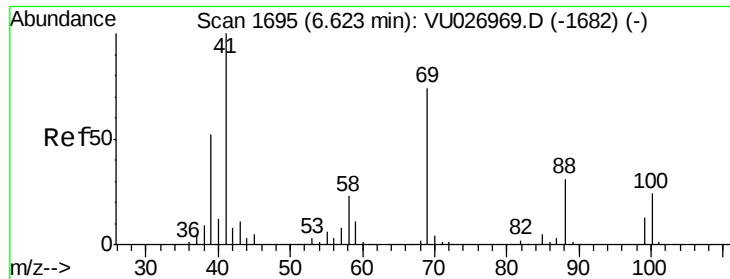
Tot Ion: 83 Resp: 6613
Ion Ratio Lower Upper
83 100
55 114.9 69.9 104.9#
98 35.3 37.5 56.3#



#43
Isopropyl Acetate
Concen: 1.317 ug/l
RT: 5.54 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

Tgt Ion: 43 Resp: 7139
Ion Ratio Lower Upper
43 100
61 0.0 15.7 23.5#
87 0.0 9.0 13.4#

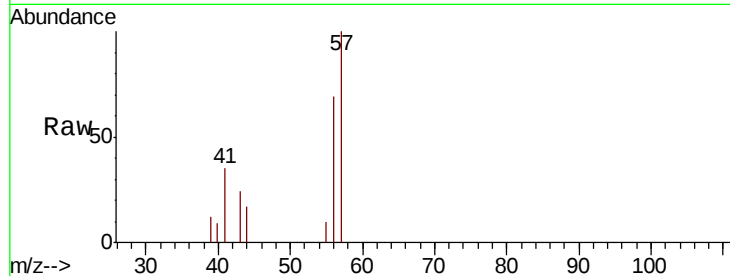




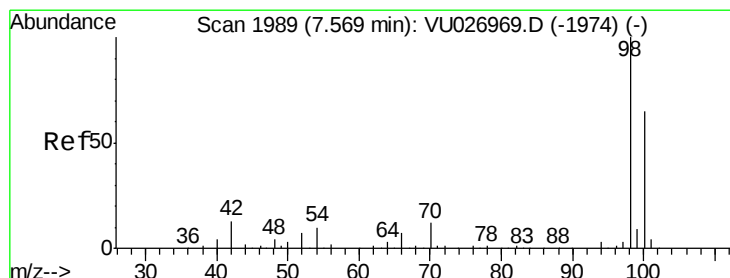
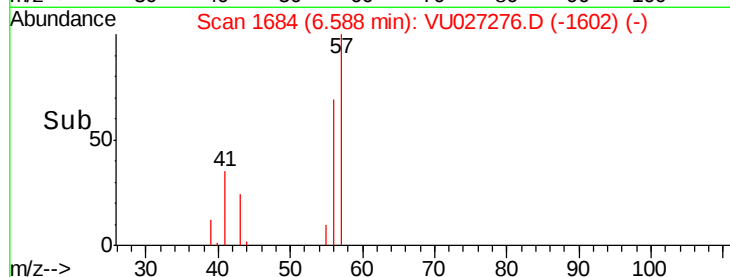
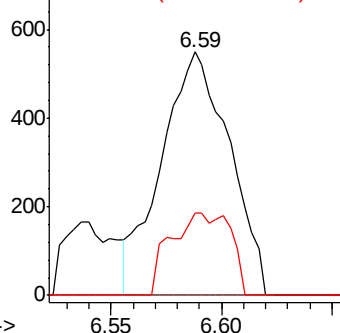
#48
Methvl methacrylate
Concen: 1.403 ug/l
RT: 6.59 min Scan# 1684
Delta R.T. -0.04 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 1177
Ion Ratio Lower Upper
41 100
69 0.0 60.6 90.8#
39 29.6 42.8 64.2#

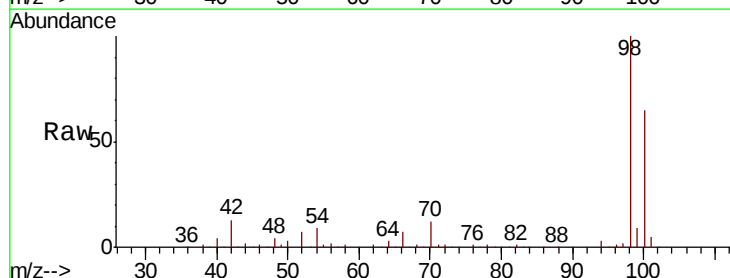


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

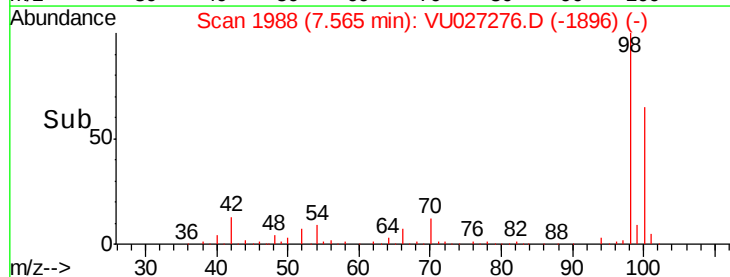
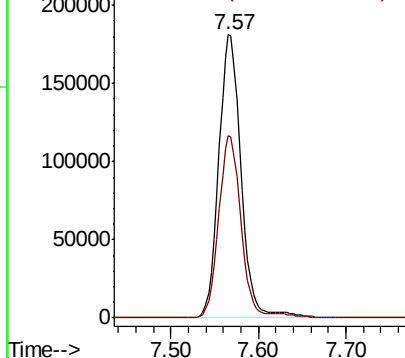


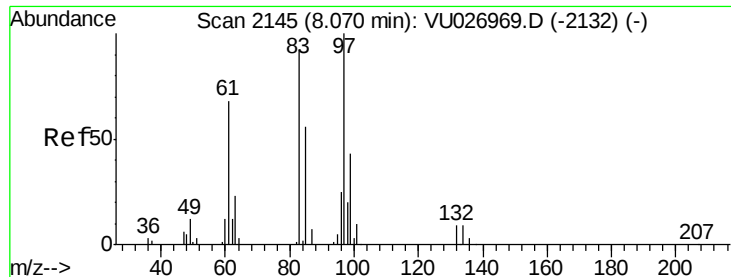
#50
Toluene-d8
Concen: 47.405 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027276.D
Acq: 28 Sep 2018 17:01

Tgt Ion: 98 Resp: 322162
Ion Ratio Lower Upper
98 100
100 63.0 52.1 78.1



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

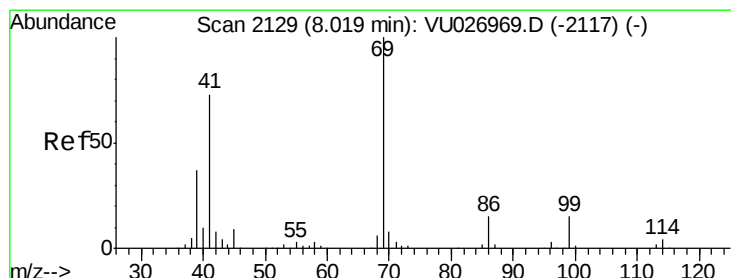
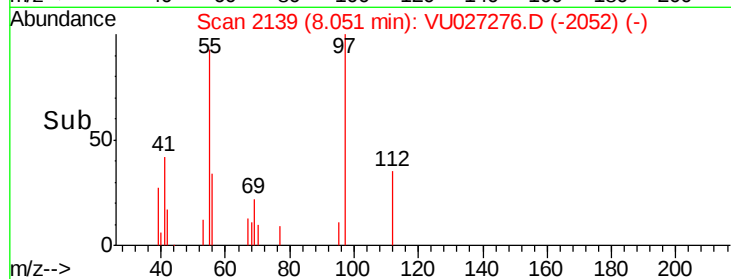
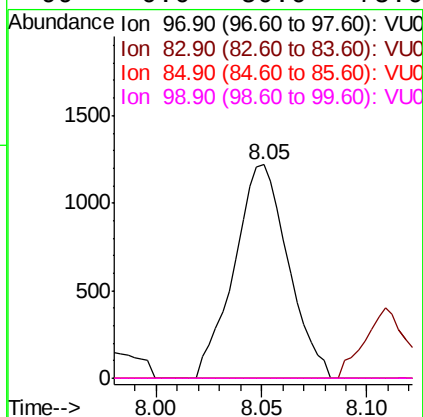
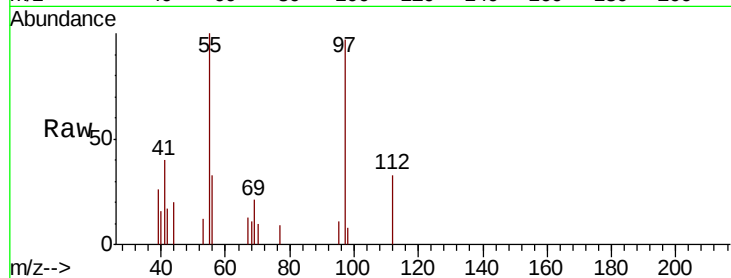




#55
 1,1,2-Trichloroethane
 Concen: 1.071 ug/l
 RT: 8.05 min Scan# 2139
 Delta R.T. -0.02 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

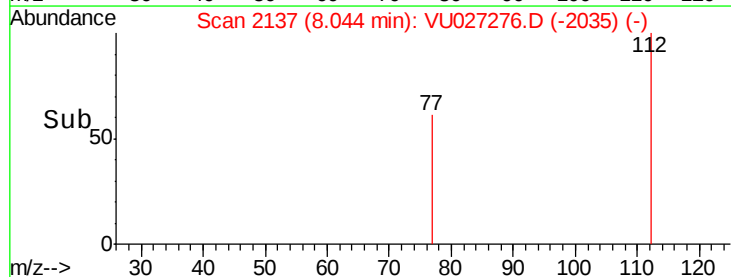
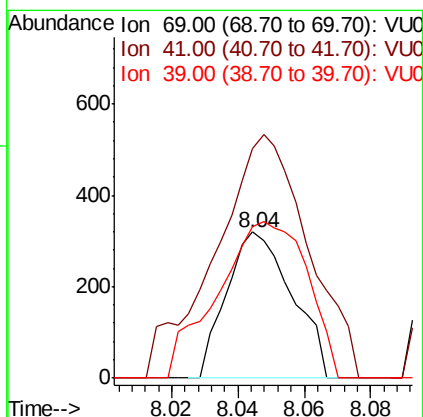
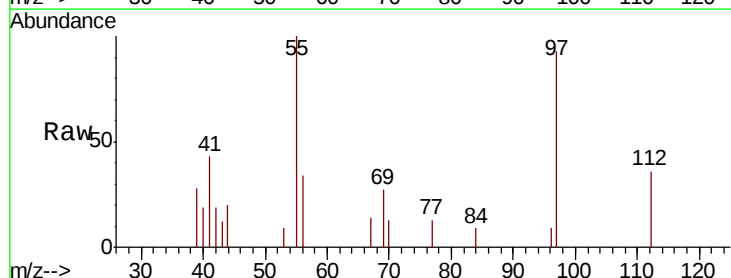
Instrument :
 MSVOA_U
 ClientSampleId :

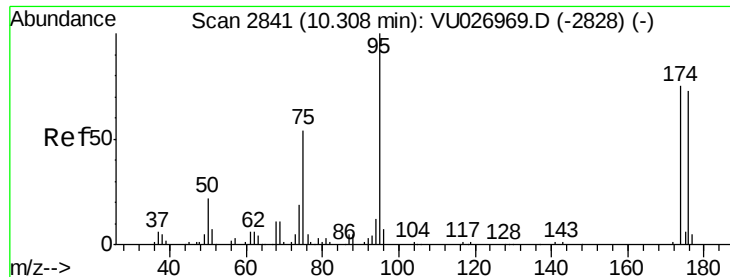
Tot Ion: 97 Resp: 2172
 Ion Ratio Lower Upper
 97 100
 83 0.0 73.1 109.7#
 85 0.0 46.7 70.1#
 99 0.0 50.0 75.0#



#56
 Ethyl methacrylate
 Concen: 2.313 ug/l
 RT: 8.04 min Scan# 2137
 Delta R.T. 0.03 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

Tgt Ion: 69 Resp: 440
 Ion Ratio Lower Upper
 69 100
 41 236.1 59.0 88.4#
 39 146.8 30.2 45.4#

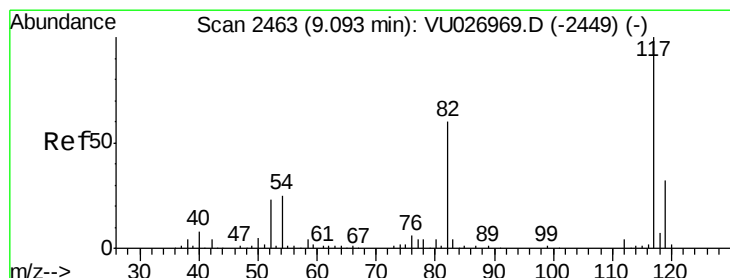
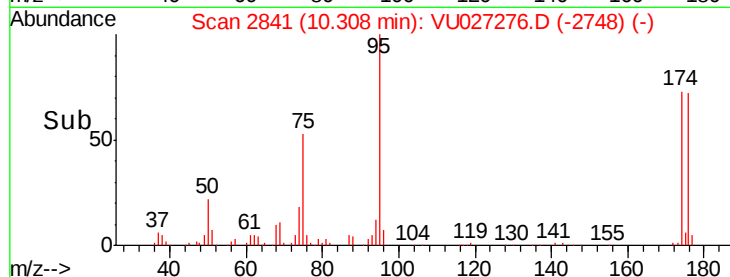
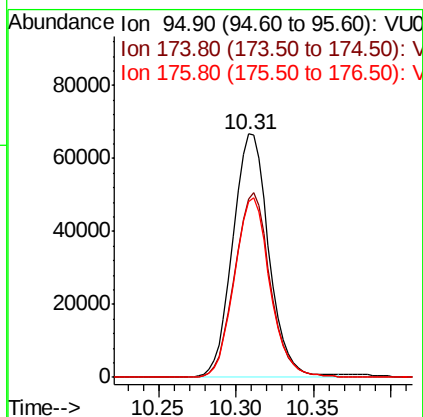
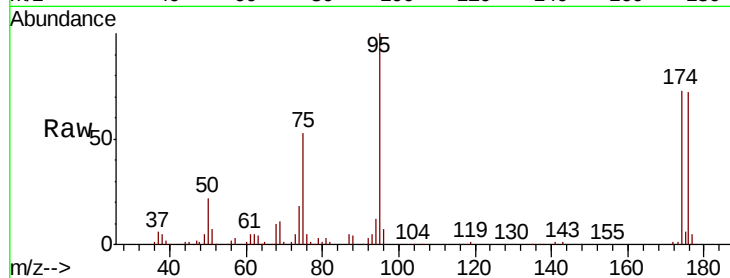




#62
 4-Bromofluorobenzene
 Concen: 46.389 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

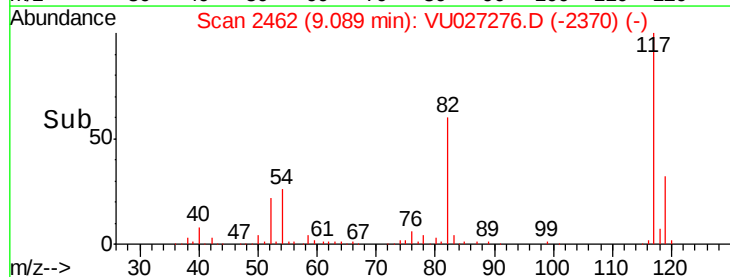
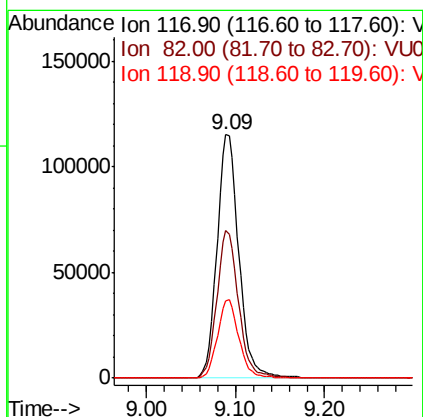
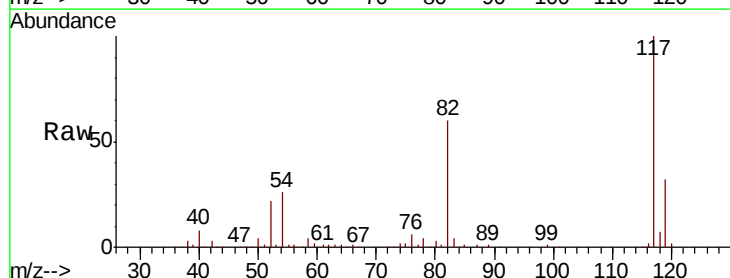
Instrument :
 MSVOA_U
 ClientSampleId :

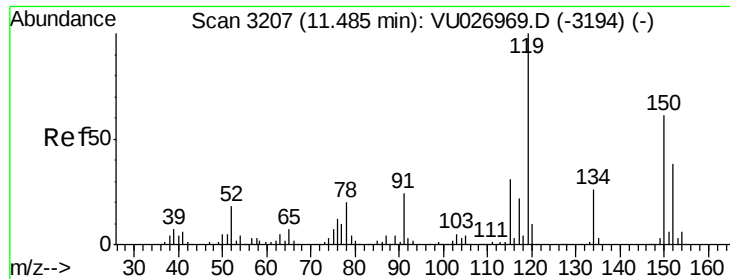
Tot Ion	95	Resp	108175
Ion Ratio	100		
Lower			
Upper			
174	75.0	0.0	150.2
176	72.9	0.0	145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

Tgt Ion	117	Resp	194890
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	60.5	48.0	72.0
119	31.7	25.8	38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

Instrument :

MSVOA_U

ClientSampleId :

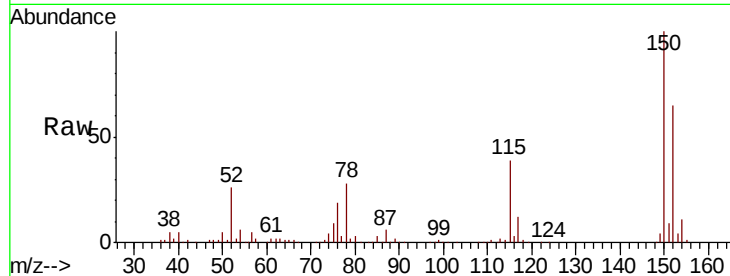
Tot Ion:152 Resp: 95796

Ion Ratio Lower Upper

152 100

115 60.1 44.9 134.5

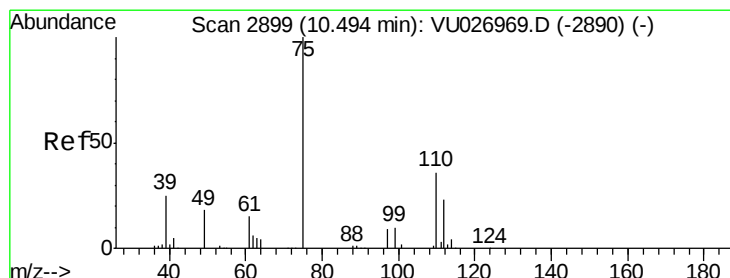
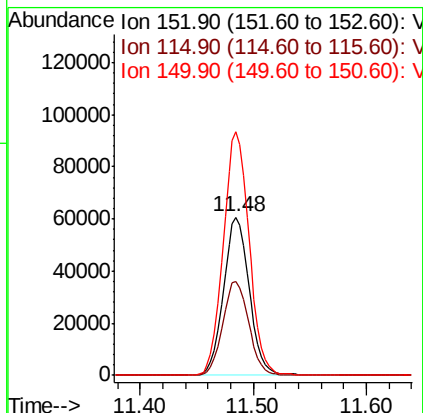
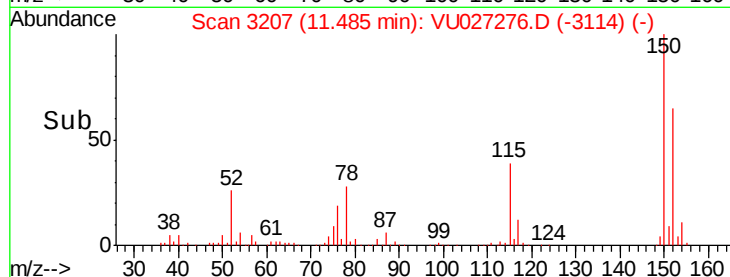
150 154.4 0.0 355.8



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: 19.771 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027276.D

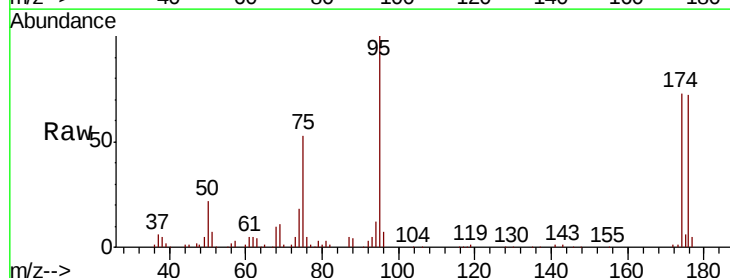
Acq: 28 Sep 2018 17:01

Tgt Ion: 75 Resp: 57539

Ion Ratio Lower Upper

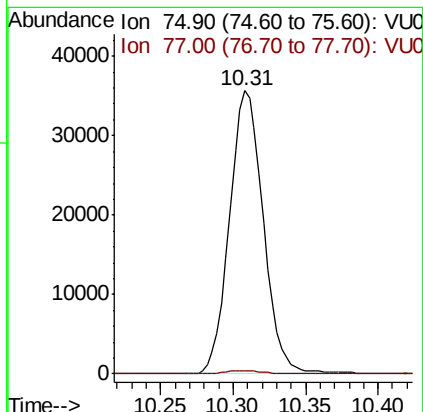
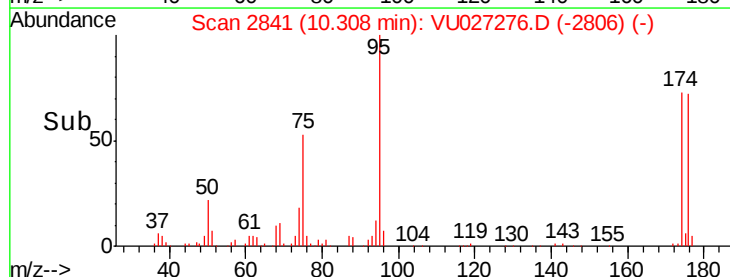
75 100

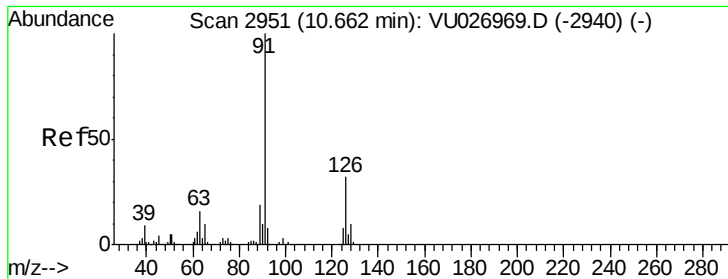
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#79

2-Chlorotoluene

Concen: 0.248 ug/l

RT: 10.59 min Scan# 2930

Delta R.T. -0.07 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

Instrument :

MSVOA_U

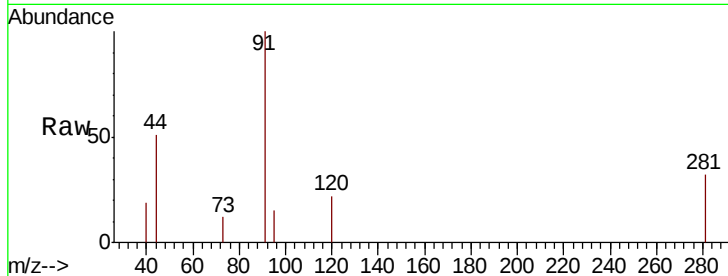
ClientSampleId :

Tot Ion: 91 Resp: 1344

Ion Ratio Lower Upper

91 100

126 0.0 15.8 47.3#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

10.59

800

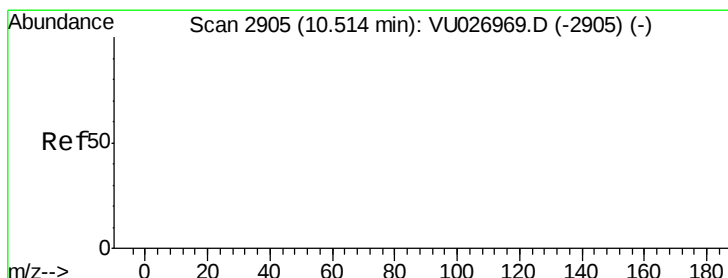
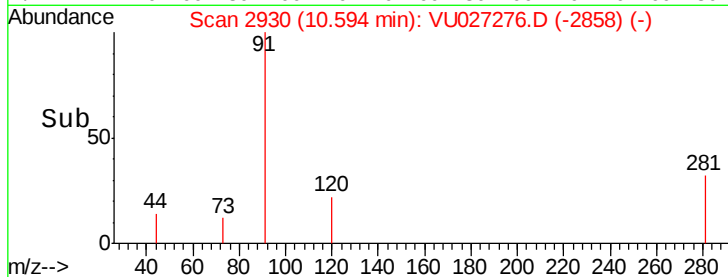
600

400

200

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.271 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

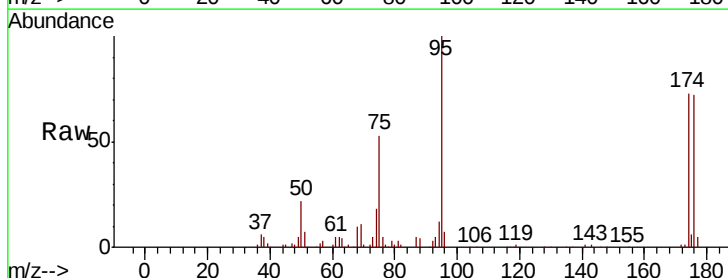
Tgt Ion: 75 Resp: 57539

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

10.31

40000

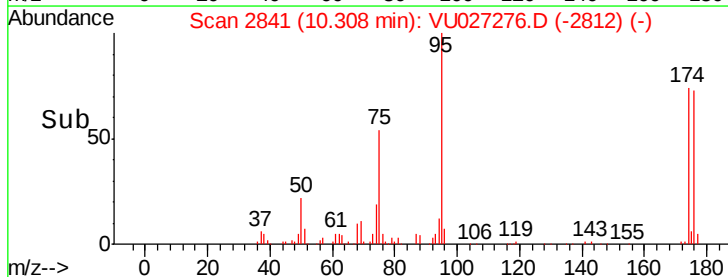
30000

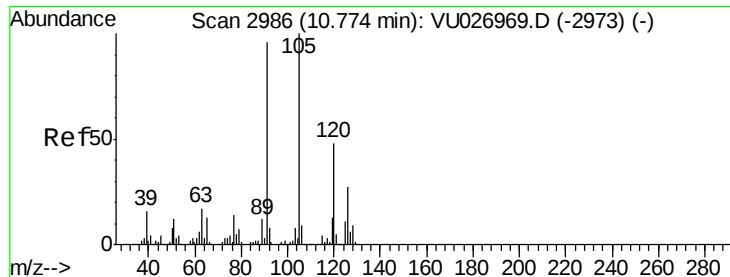
20000

10000

0

Time-->





#82

4-Chlorotoluene

Concen: 0.221 ug/l

RT: 10.59 min Scan# 2930

Delta R.T. -0.18 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

Instrument :

MSVOA_U

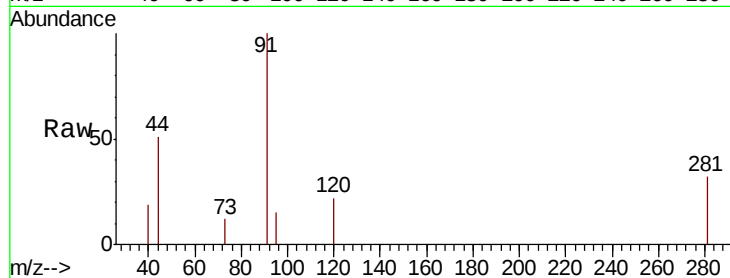
ClientSampleId :

Tot Ion: 91 Resp: 1344

Ion Ratio Lower Upper

91 100

126 0.0 14.1 42.2#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

10.59

800

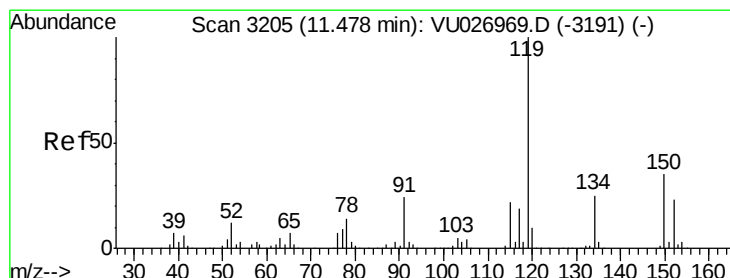
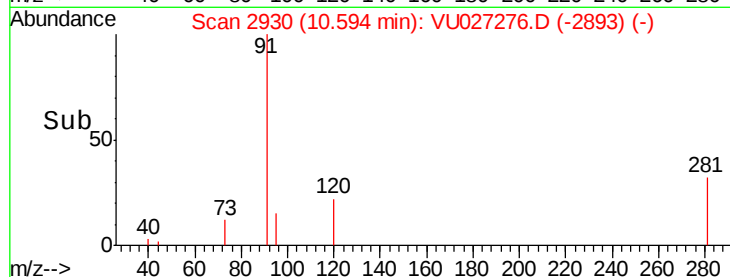
600

400

200

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.180 ug/l

RT: 11.69 min Scan# 3271

Delta R.T. 0.21 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

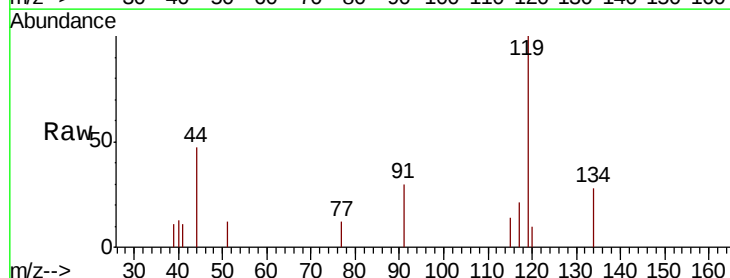
Tgt Ion: 119 Resp: 1751

Ion Ratio Lower Upper

119 100

134 24.9 12.8 38.3

91 24.6 12.3 36.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

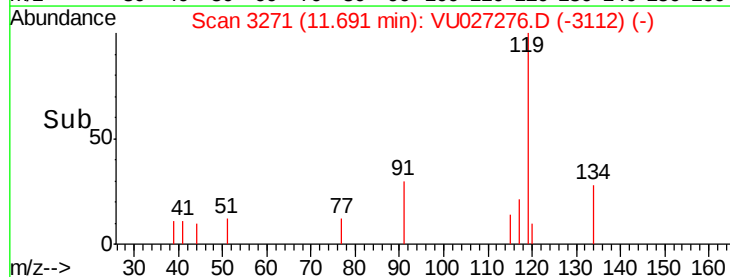
1500

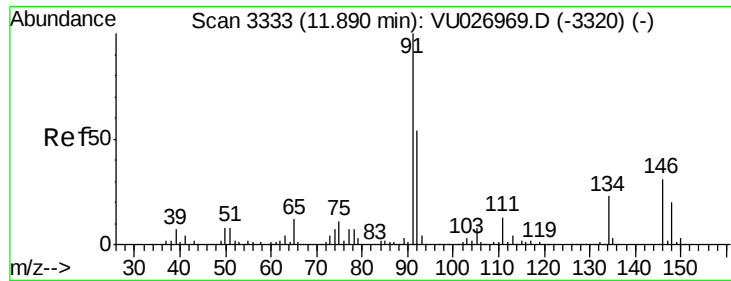
1000

500

0

Time-->





#89

n-Butylbenzene

Concen: 2.445 ug/l

RT: 11.88 min Scan# 3331

Delta R.T. -0.01 min

Lab File: VU027276.D

Acq: 28 Sep 2018 17:01

Instrument :

MSVOA_U

ClientSampled :

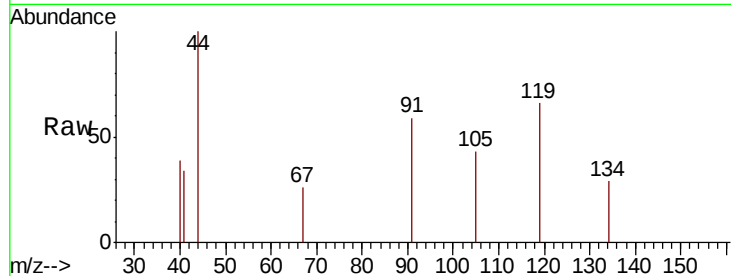
Tot Ion: 91 Resp: 362

Ion Ratio Lower Upper

91 100

92 25.7 27.1 81.2#

134 0.0 11.7 35.0#

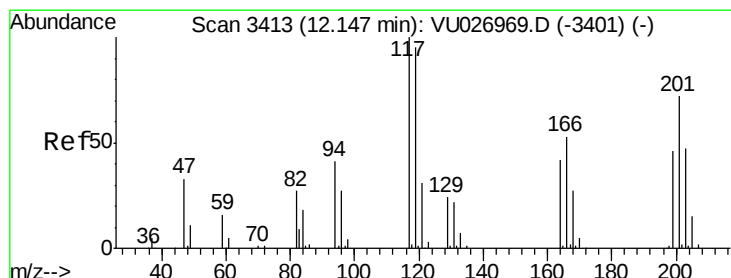
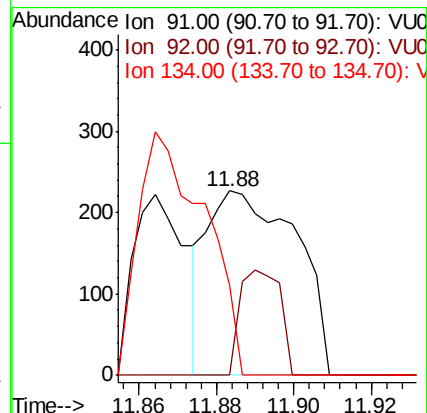
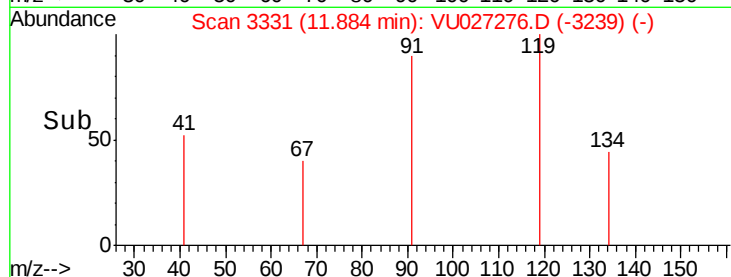


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->



#90

Hexachloroethane

Concen: 1.532 ug/l

RT: 12.29 min Scan# 3457

Delta R.T. 0.14 min

Lab File: VU027276.D

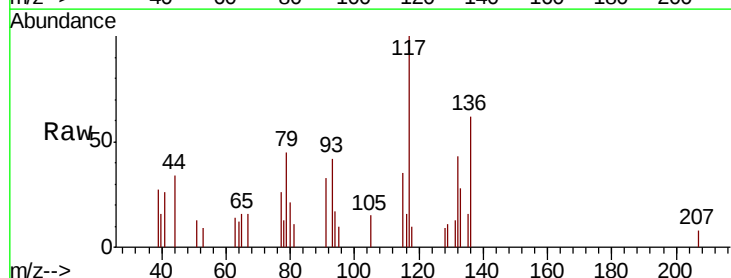
Acq: 28 Sep 2018 17:01

Tgt Ion: 117 Resp: 2023

Ion Ratio Lower Upper

117 100

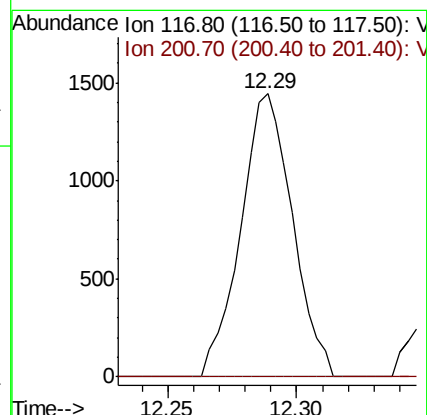
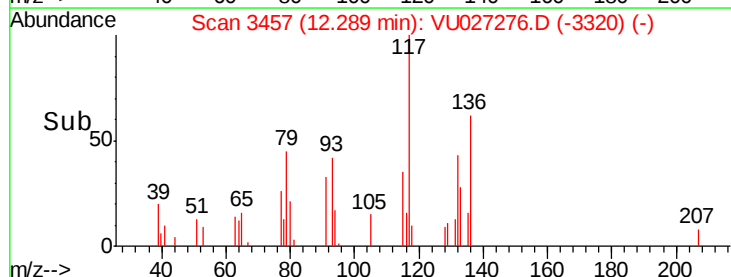
201 0.0 36.8 110.3#

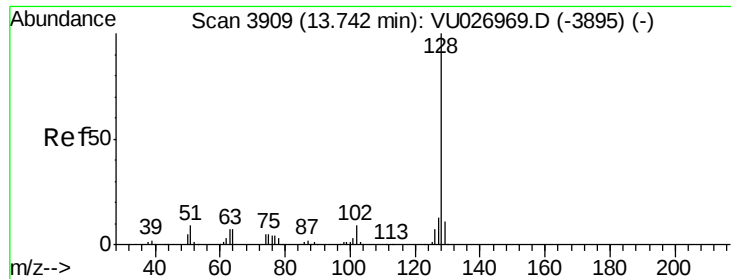


Abundance Ion 116.80 (116.50 to 117.50): VU026969.D (-3401) (-)

Ion 200.70 (200.40 to 201.40): VU026969.D (-3401) (-)

Time-->

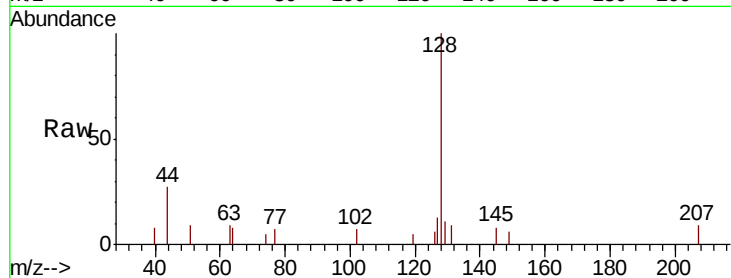




#95
 Naphthalene
 Concen: 2.232 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.00 min
 Lab File: VU027276.D
 Acq: 28 Sep 2018 17:01

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.6	15.8
129	11.9	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

