

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111318\
 Data File : VU028105.D
 Acq On : 13 Nov 2018 20:31
 Operator : MD/SY
 Sample : J5908-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:02:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	248307	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	454065	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	398924	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	164177	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	190290	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
35) Dibromofluoromethane	4.88	113	144326	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
50) Toluene-d8	7.57	98	580317	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	
62) 4-Bromofluorobenzene	10.31	95	192048	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	

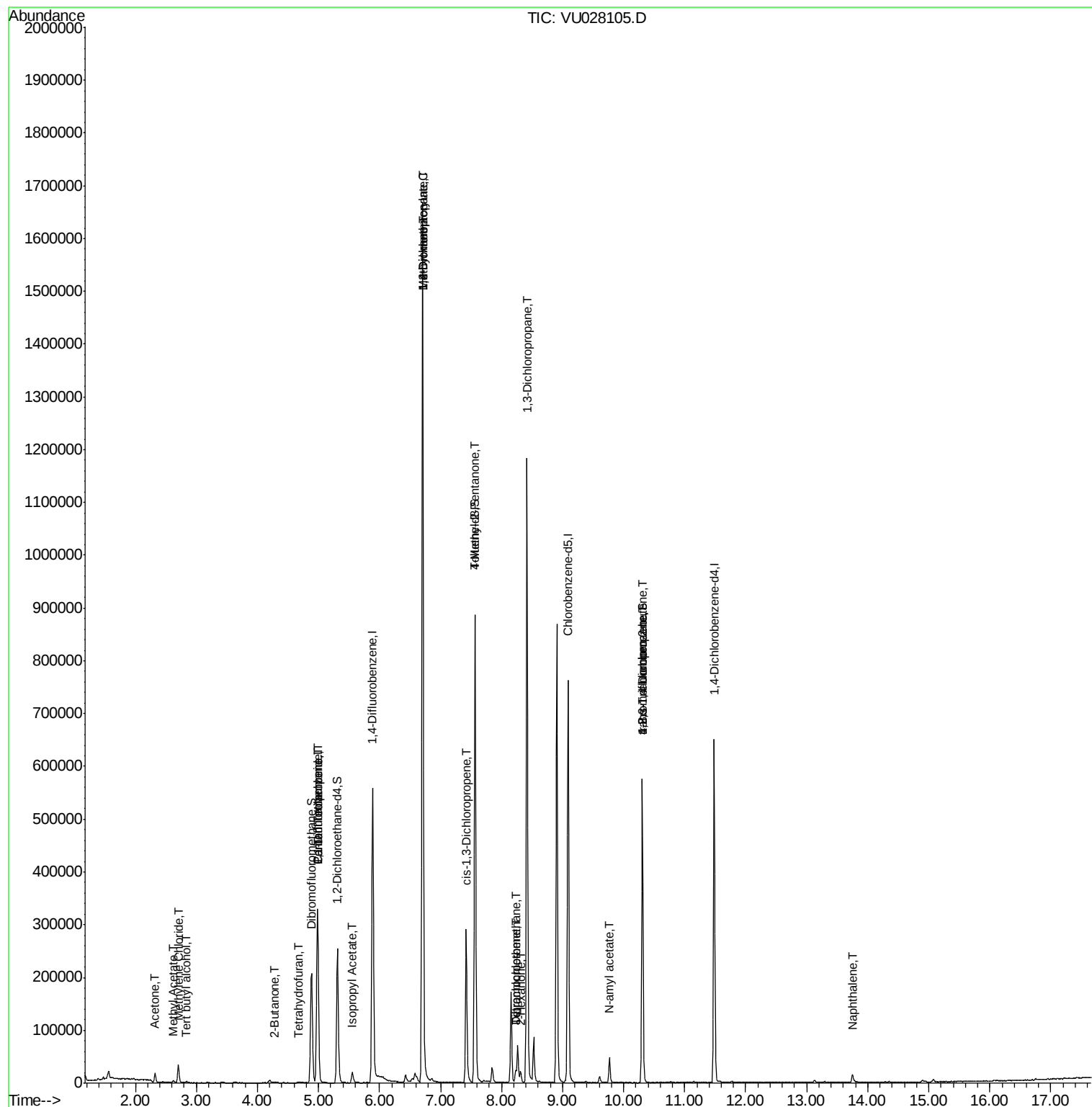
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	1740	1.780	ug/l #	73
13) Acrolein	2.20	56	101	Below Cal	#	71
16) Acetone	2.32	43	18224	7.956	ug/l #	89
18) Methyl Acetate	2.62	43	5616	0.891	ug/l	93
20) Methylene Chloride	2.71	84	14802	4.426	ug/l	94
25) 2-Butanone	4.28	43	844	0.232	ug/l	96
29) Tetrahydrofuran	4.66	42	908	0.373	ug/l #	61
31) Cyclohexane	4.98	56	5744	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	20596	4.331	ug/l #	50
38) Carbon Tetrachloride	4.99	117	24647	5.848	ug/l #	16
43) Isopropyl Acetate	5.56	43	25008	2.291	ug/l	100
45) 1,2-Dichloropropane	6.70	63	1568	0.374	ug/l #	44
48) Methyl methacrylate	6.71	41	139601	26.095	ug/l #	46
49) 1,4-Dioxane	6.71	88	146	1.673	ug/l #	1
51) 4-Methyl-2-Pentanone	7.56	43	13759	1.887	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	49538	8.651	ug/l #	57
57) 1,3-Dichloropropane	8.41	76	11283	1.781	ug/l #	43
59) 2-Hexanone	8.31	43	16805	2.980	ug/l #	26
60) Dibromochloromethane	8.23	129	740	0.225	ug/l #	10
64) Tetrachloroethene	8.22	164	817	0.316	ug/l #	87
74) N-amyl acetate	9.77	43	15794	2.054	ug/l #	55
76) 1,2,3-Trichloropropane	10.31	75	98911	22.026	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	98911	54.967	ug/l #	100
95) Naphthalene	13.75	128	14541	0.902	ug/l	99

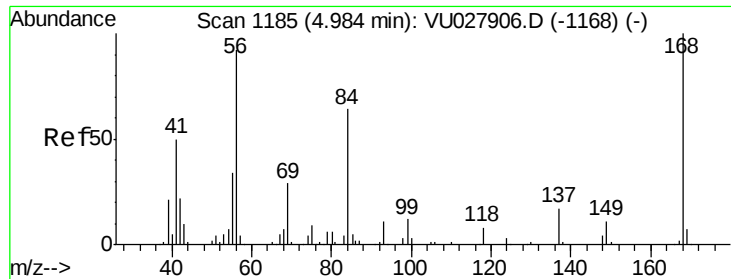
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111318\
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Quant Time: Nov 14 07:02:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 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: VU028105.D

Acq: 13 Nov 2018 20:31

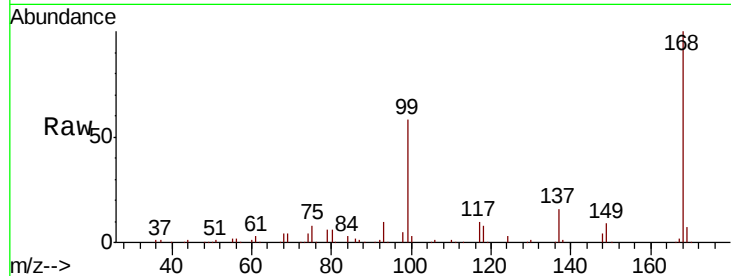
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 248307

Ion Ratio Lower Upper

168 100

99 57.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028105.D (-1092) (-)

4.99

120000

100000

80000

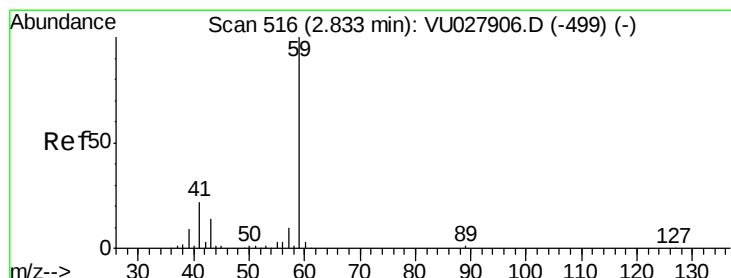
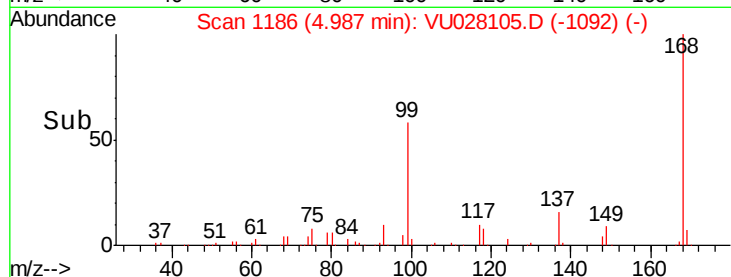
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.780 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU028105.D

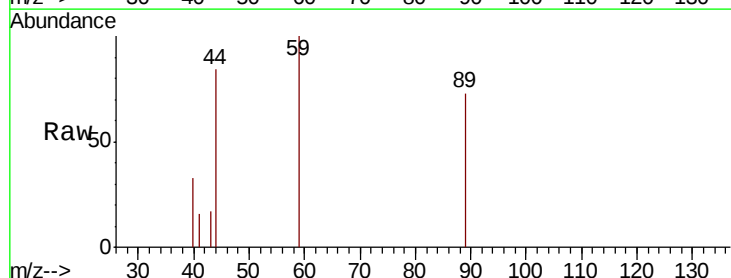
Acq: 13 Nov 2018 20:31

Tgt Ion: 59 Resp: 1740

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU028105.D (-423) (-)

2.84

1000

800

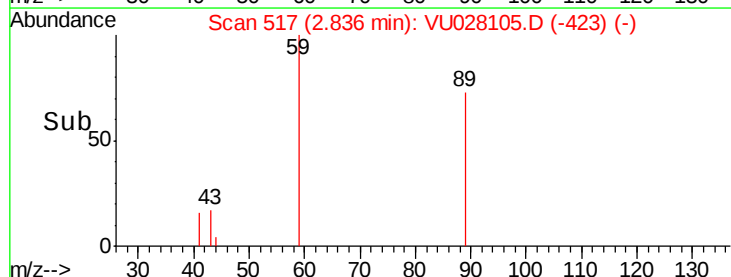
600

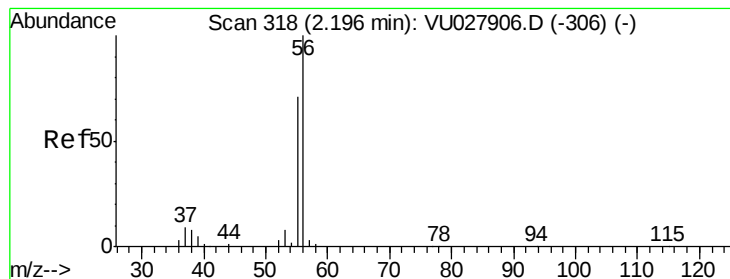
400

200

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028105.D

Acq: 13 Nov 2018 20:31

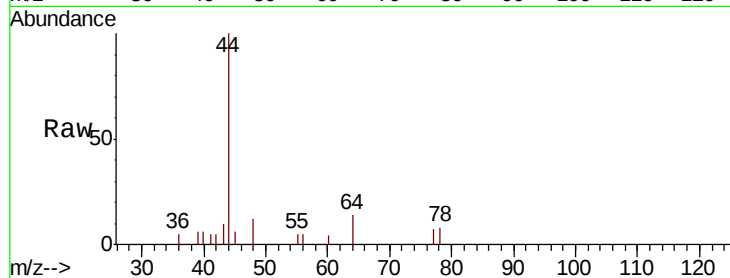
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 101

Ion Ratio Lower Upper

56 100

55 46.5 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028105.D (-224) (-)

Ion 55.00 (54.70 to 55.70): VU028105.D (-224) (-)

2.20

150

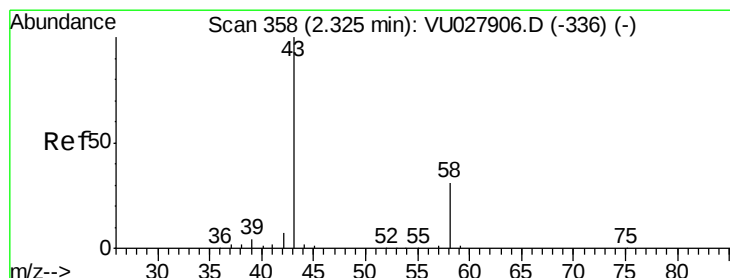
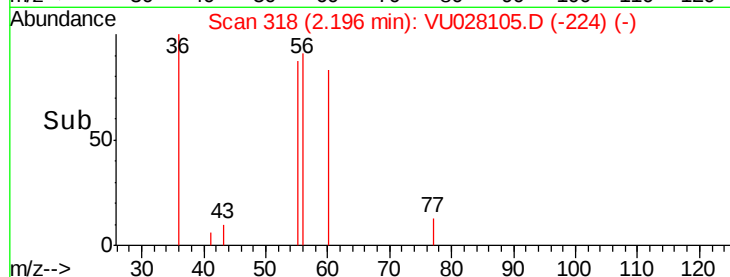
100

50

0

2.18 2.19 2.20 2.21

Time-->



#16

Acetone

Concen: 7.956 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028105.D

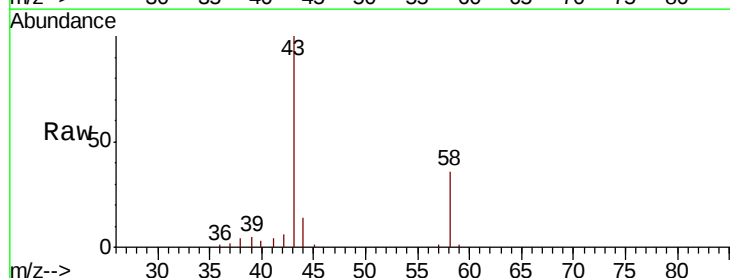
Acq: 13 Nov 2018 20:31

Tgt Ion: 43 Resp: 18224

Ion Ratio Lower Upper

43 100

58 37.1 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028105.D (-265) (-)

Ion 58.00 (57.70 to 58.70): VU028105.D (-265) (-)

2.32

12000

10000

8000

6000

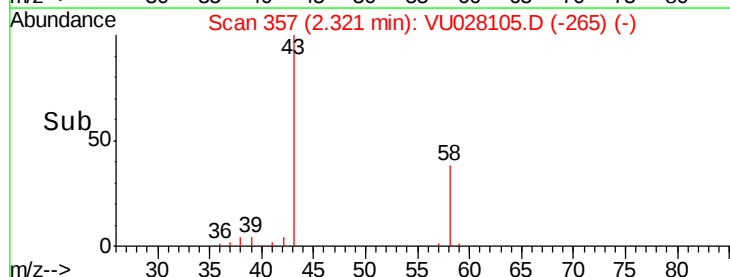
4000

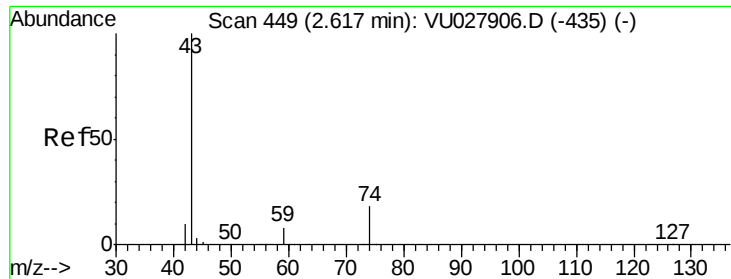
2000

0

2.25 2.30 2.35 2.40

Time-->

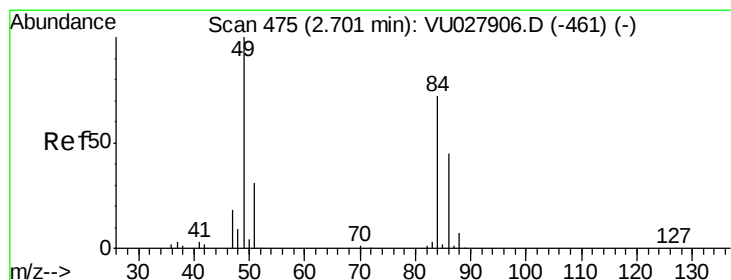
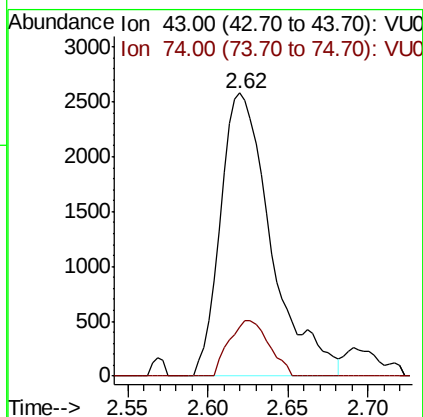
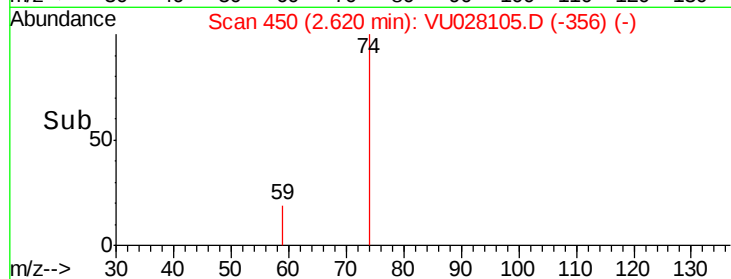
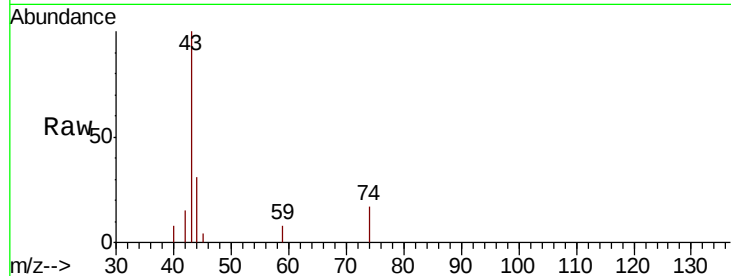




#18
Methyl Acetate
Concen: 0.891 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

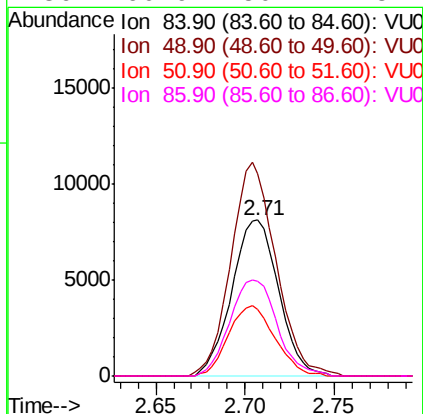
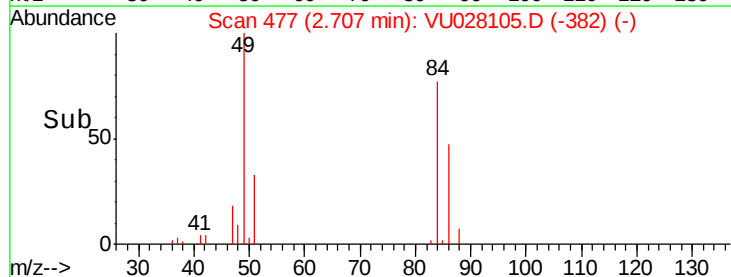
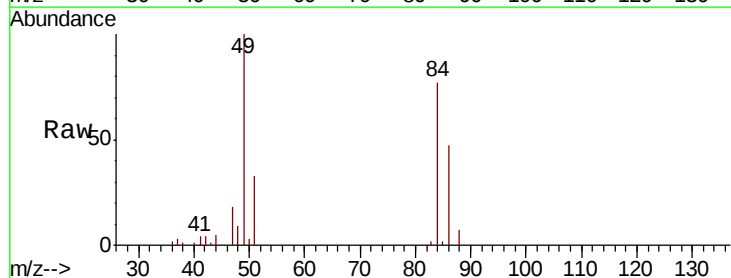
Instrument :
MSVOA_U
ClientSampled :

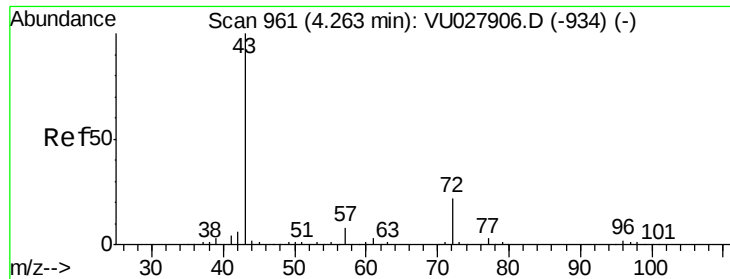
Tot Ion: 43 Resp: 5616
Ion Ratio Lower Upper
43 100
74 15.3 14.9 22.3



#20
Methylene Chloride
Concen: 4.426 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion: 84 Resp: 14802
Ion Ratio Lower Upper
84 100
49 129.5 111.6 167.4
51 42.4 34.8 52.2
86 60.9 50.1 75.1

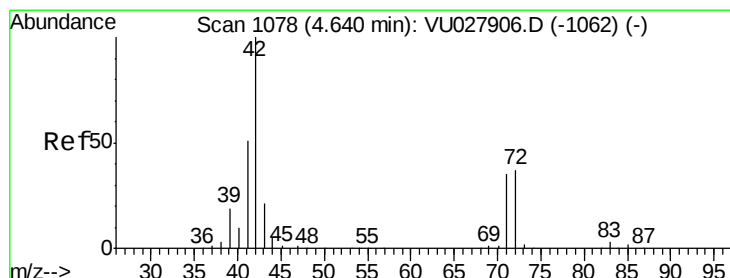
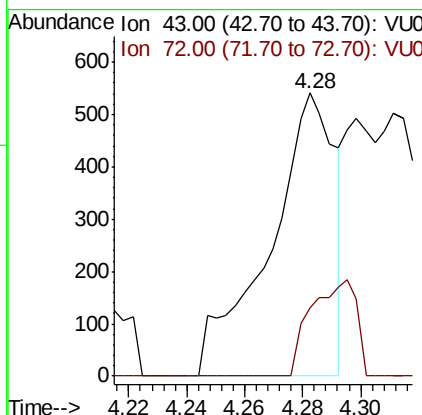
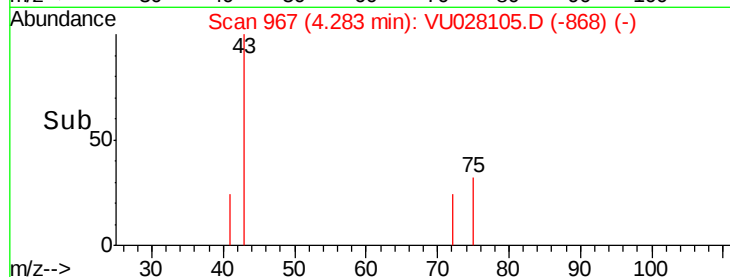
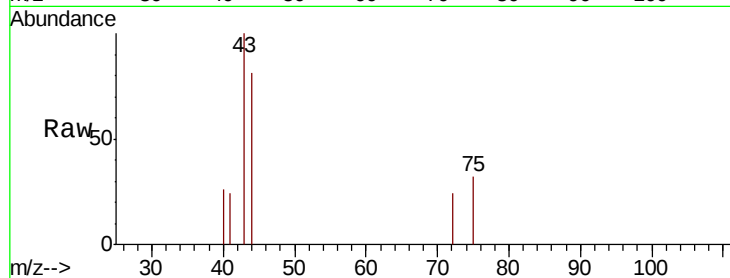




#25
 2-Butanone
 Concen: 0.232 ug/l
 RT: 4.28 min Scan# 967
 Delta R.T. 0.02 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

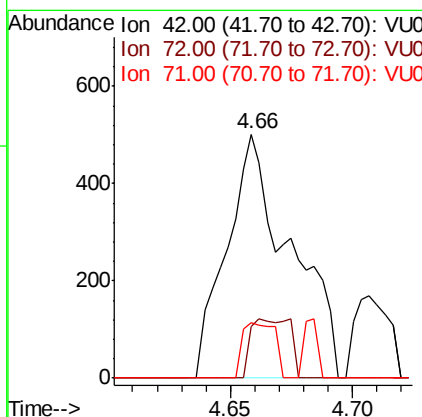
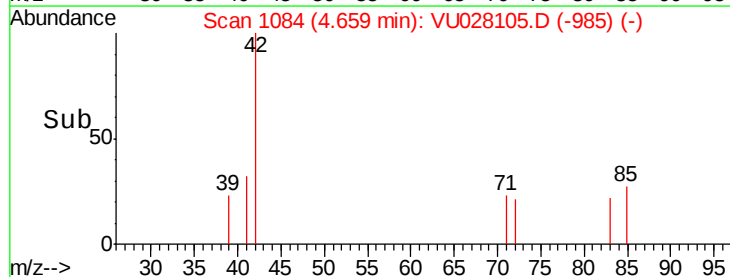
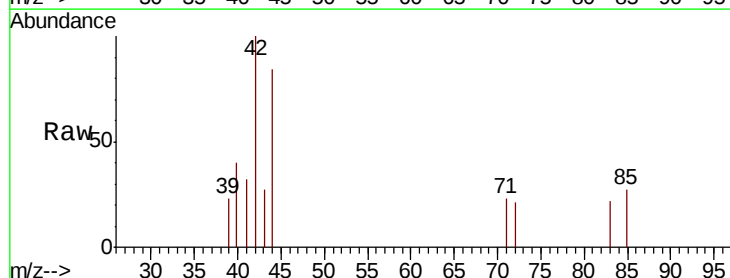
Instrument :
 MSVOA_U
 ClientSampled :

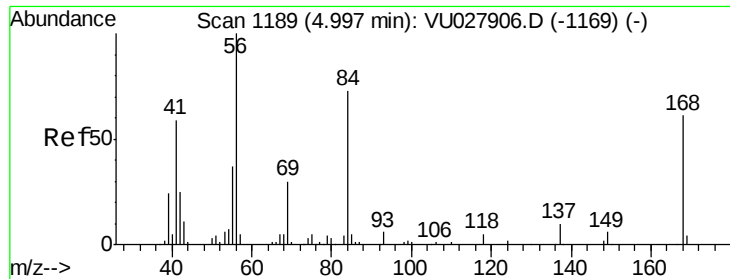
Tot Ion: 43 Resp: 844
 Ion Ratio Lower Upper
 43 100
 72 24.0 17.7 26.5



#29
 Tetrahydrofuran
 Concen: 0.373 ug/l
 RT: 4.66 min Scan# 1084
 Delta R.T. 0.02 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

Tgt Ion: 42 Resp: 908
 Ion Ratio Lower Upper
 42 100
 72 14.9 29.4 44.0#
 71 11.3 27.9 41.9#

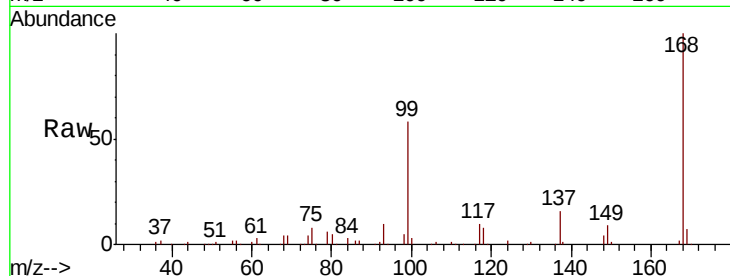




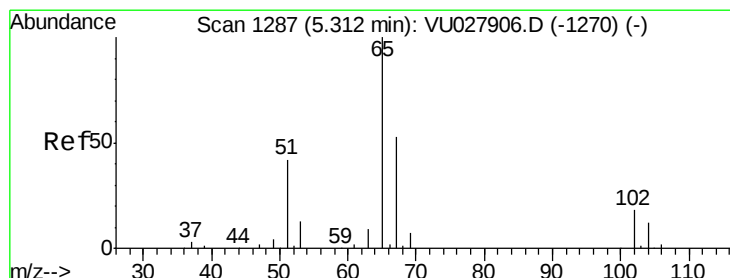
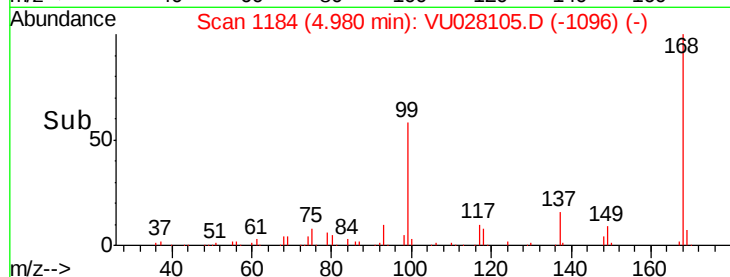
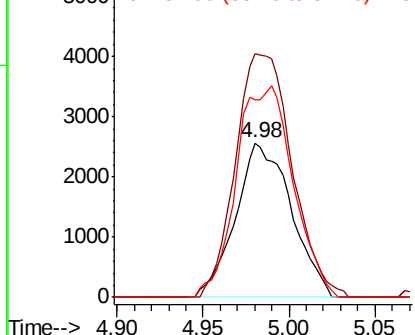
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 5744
Ion Ratio Lower Upper
56 100
69 157.5 23.7 35.5#
84 127.6 58.2 87.4#

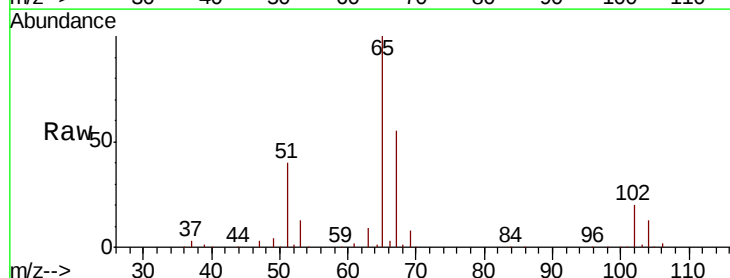


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

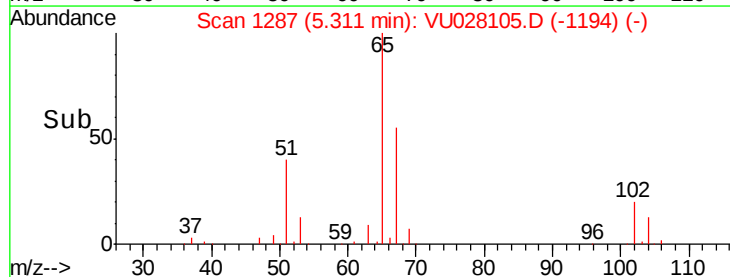
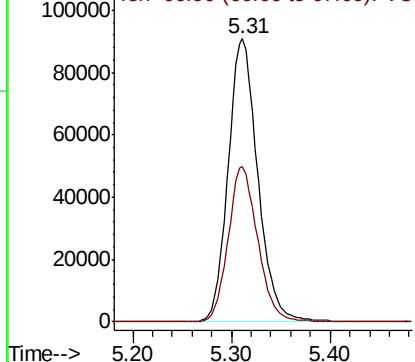


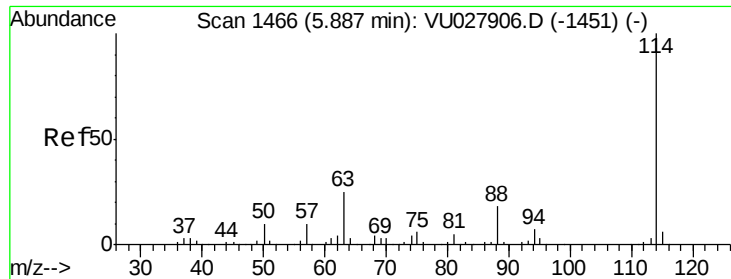
#33
1,2-Dichloroethane-d4
Concen: 51.545 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion: 65 Resp: 190290
Ion Ratio Lower Upper
65 100
67 54.8 0.0 109.0



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

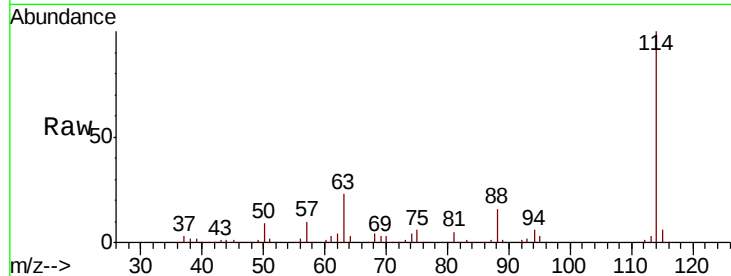




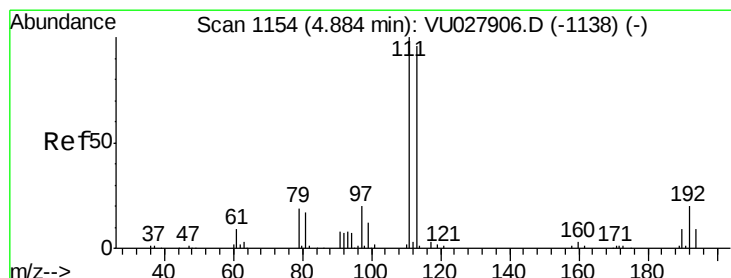
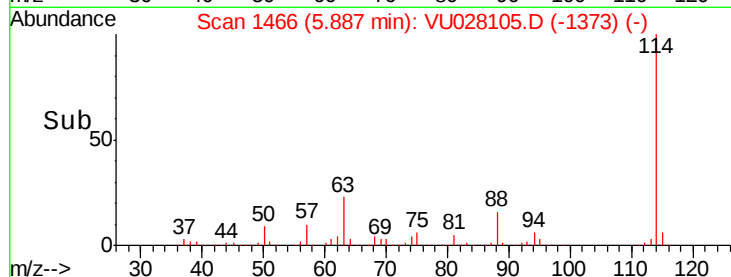
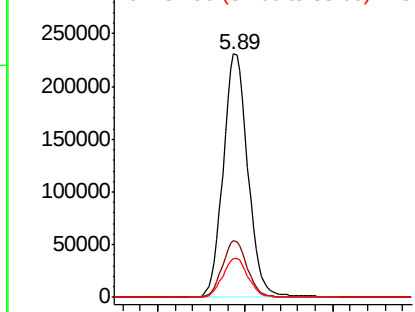
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 454065
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 50.8
 88 16.0 0.0 35.8

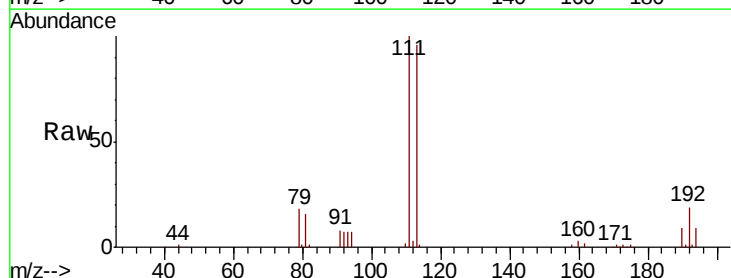


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

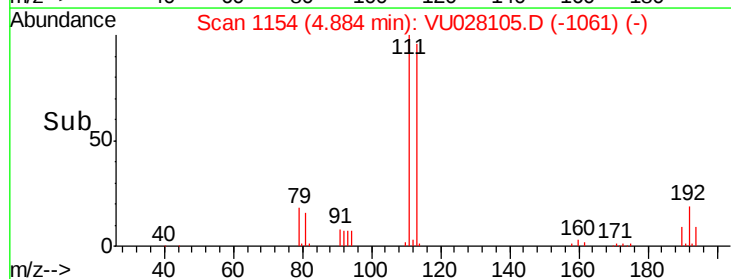
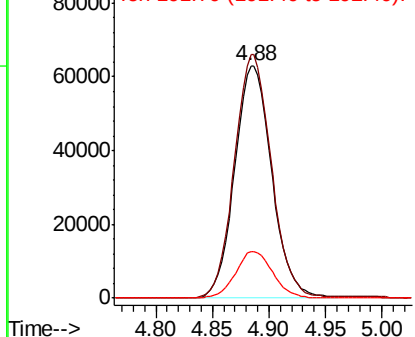


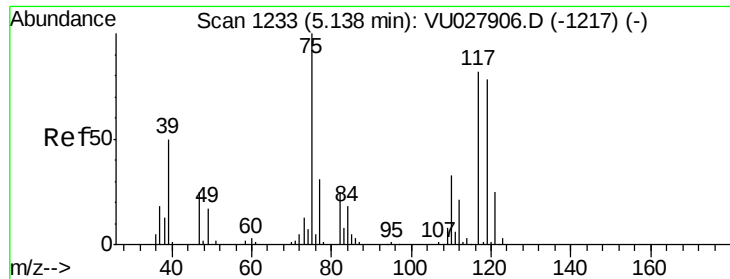
#35
 Dibromofluoromethane
 Concen: 50.412 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

Tgt Ion:113 Resp: 144326
 Ion Ratio Lower Upper
 113 100
 111 103.9 83.0 124.6
 192 20.1 15.6 23.4



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

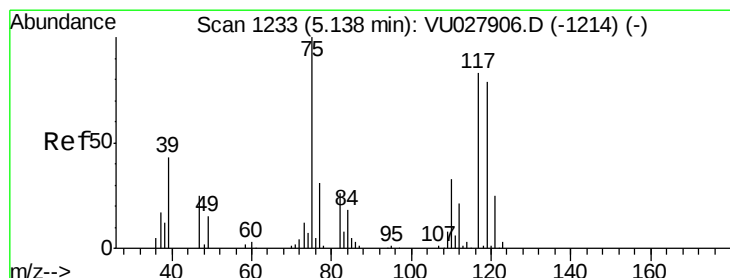
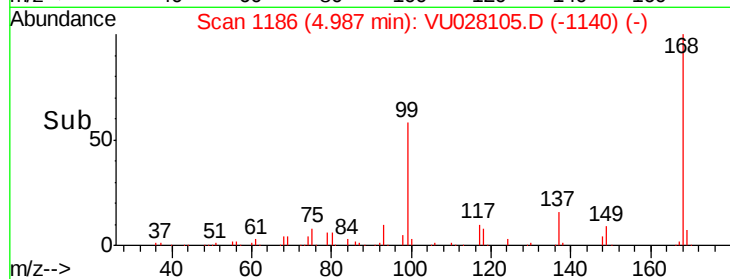
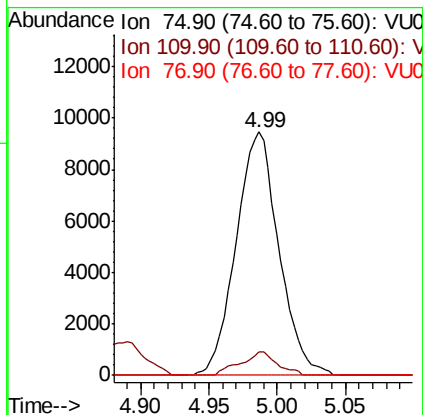
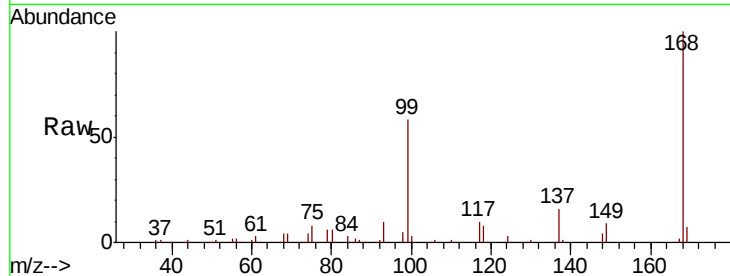




#36
 1,1-Dichloropropene
 Concen: 4.331 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

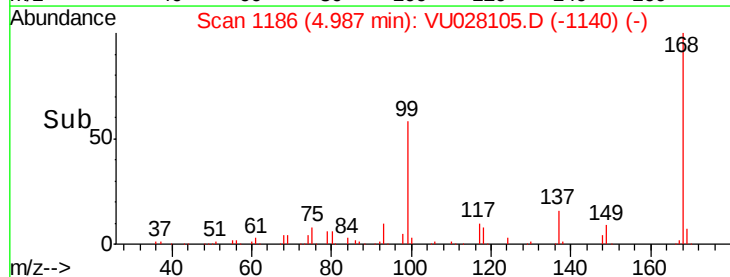
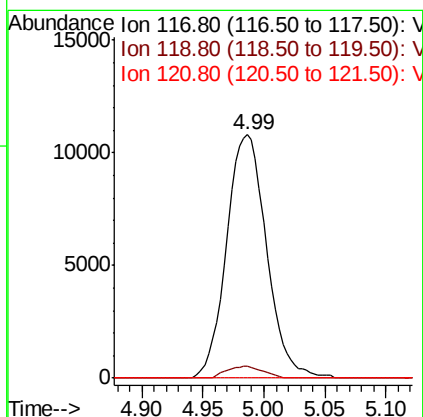
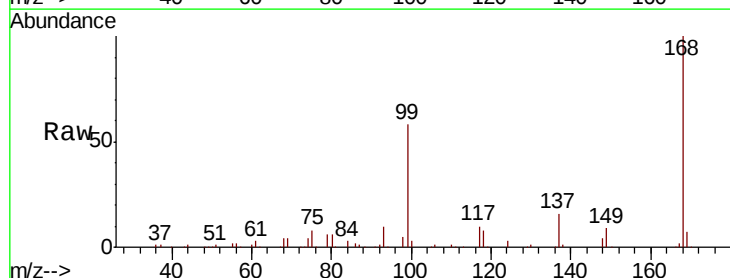
Instrument :
 MSVOA_U
 ClientSampled :

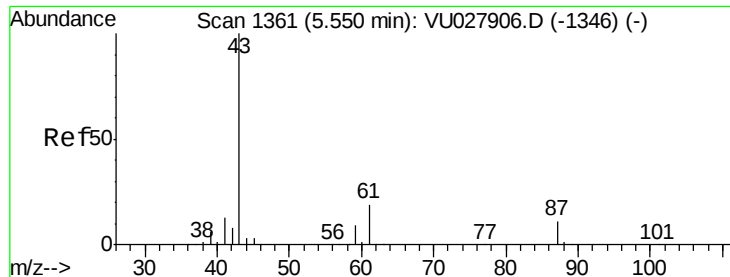
Tot Ion	75	Resp	20596
Ion Ratio	Lower	Upper	
75	100		
110	8.2	16.5	49.5#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.848 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

Tgt Ion	117	Resp	24647
Ion Ratio	Lower	Upper	
117	100		
119	4.8	76.0	114.0#
121	0.0	24.5	36.7#





#43

Isopropyl Acetate

Concen: 2.291 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VU028105.D

Acq: 13 Nov 2018 20:31

Instrument :

MSVOA_U

ClientSampled :

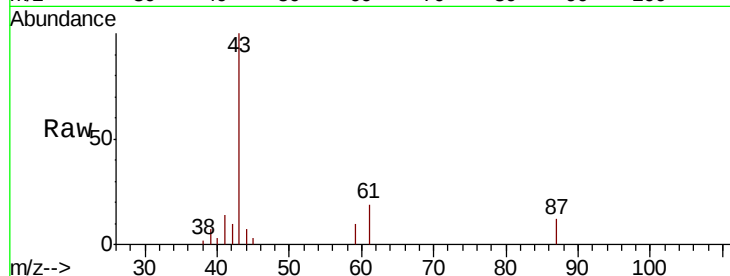
Tot Ion: 43 Resp: 25008

Ion Ratio Lower Upper

43 100

61 18.9 15.0 22.4

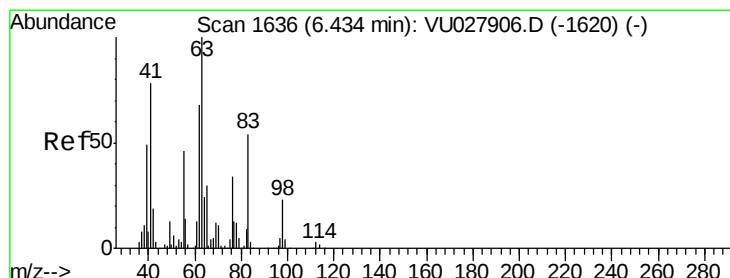
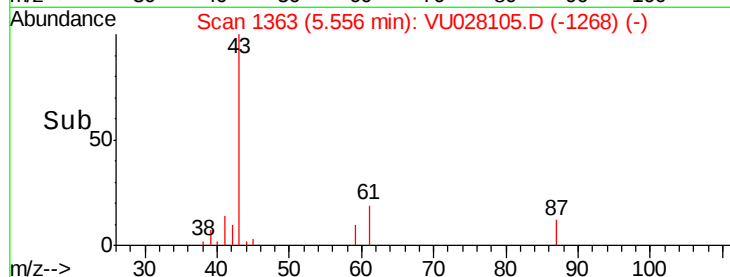
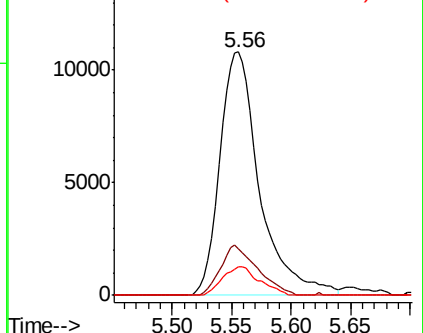
87 10.9 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU028105.D (-1268) (-)

Ion 61.00 (60.70 to 61.70): VU028105.D (-1268) (-)

Ion 87.00 (86.70 to 87.70): VU028105.D (-1268) (-)



#45

1,2-Dichloropropane

Concen: 0.374 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU028105.D

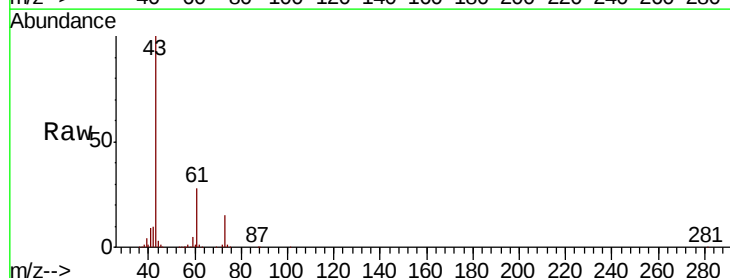
Acq: 13 Nov 2018 20:31

Tgt Ion: 63 Resp: 1568

Ion Ratio Lower Upper

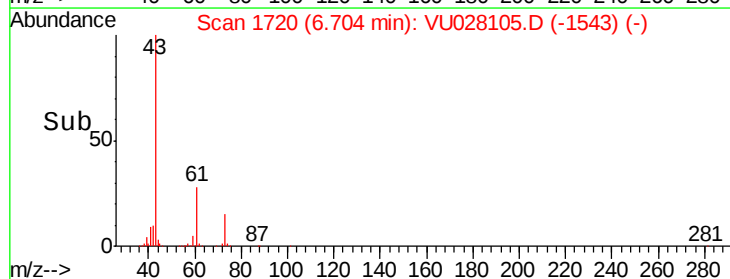
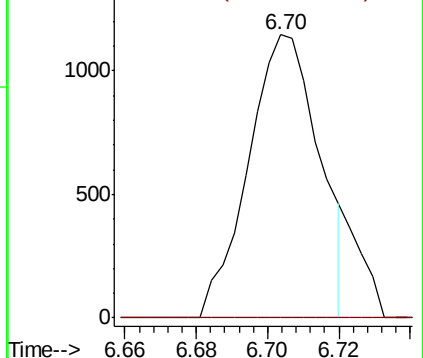
63 100

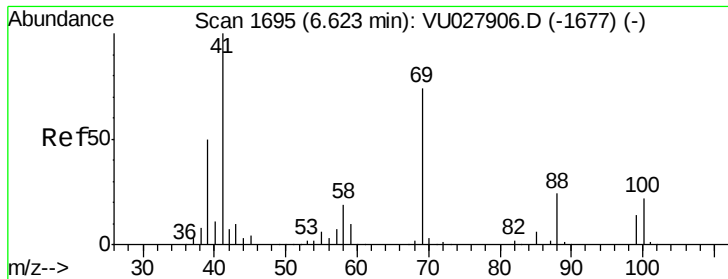
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VU028105.D (-1543) (-)

Ion 64.90 (64.60 to 65.60): VU028105.D (-1543) (-)

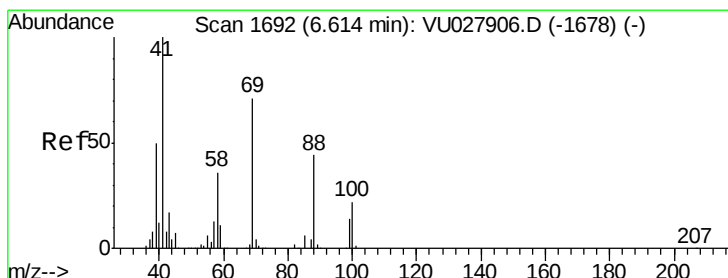
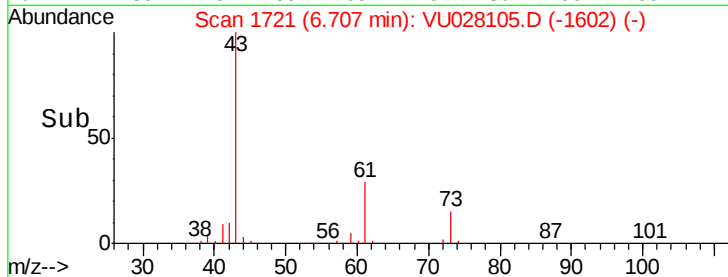
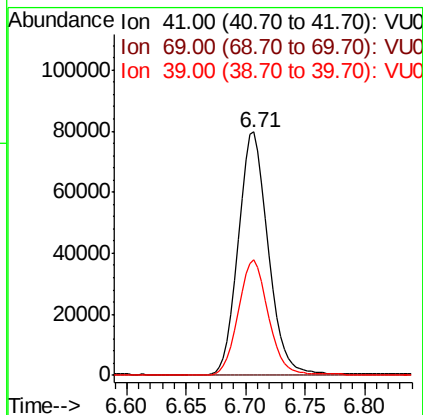
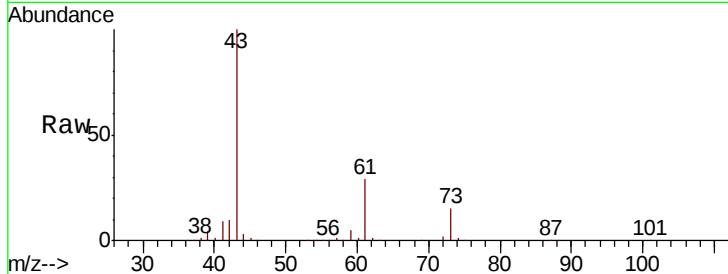




#48
Methvl methacrylate
Concen: 26.095 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.08 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

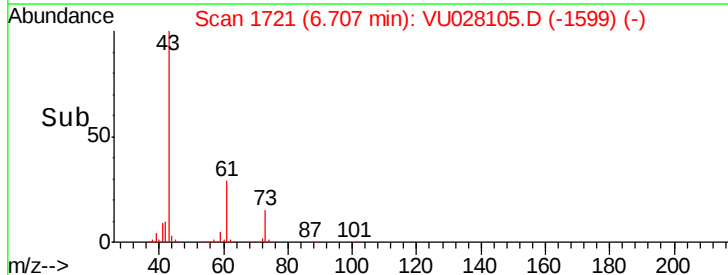
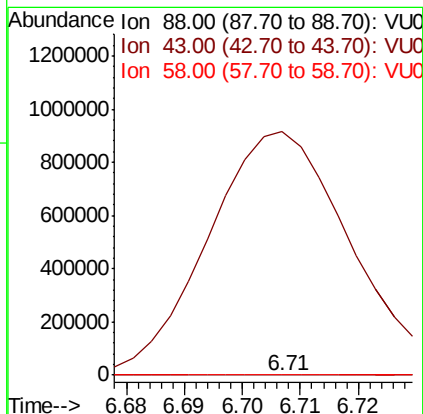
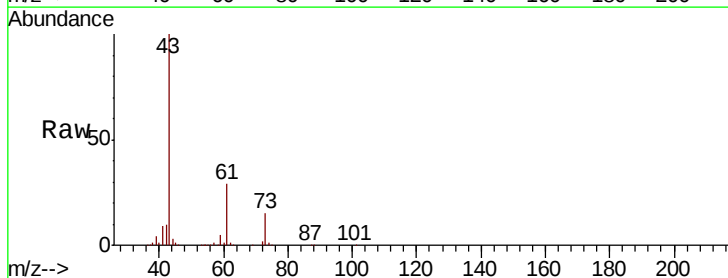
Instrument :
MSVOA_U
ClientSampled :

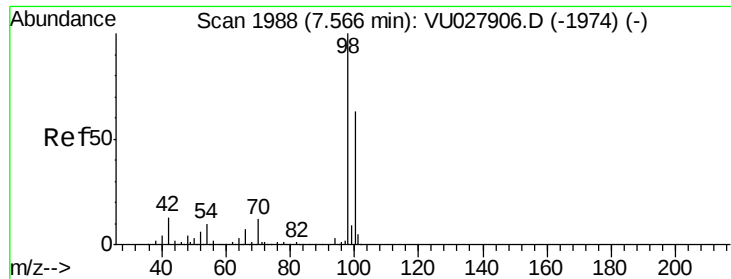
Tot Ion: 41 Resp: 139601
Ion Ratio Lower Upper
41 100
69 0.1 59.8 89.8#
39 47.8 40.0 60.0



#49
1,4-Dioxane
Concen: 1.673 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.09 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion: 88 Resp: 146
Ion Ratio Lower Upper
88 100
43 1108710.3 30.5 45.7#
58 4026.0 67.1 100.7#

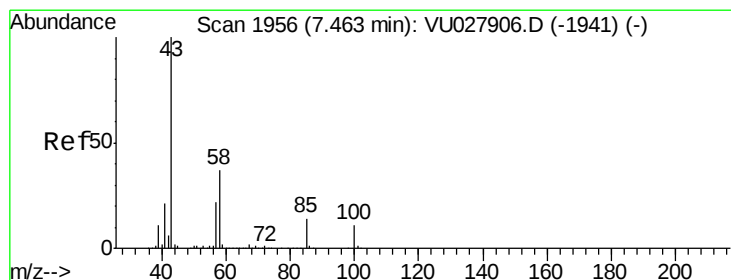
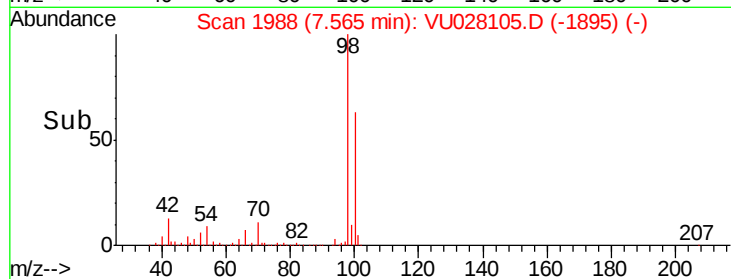
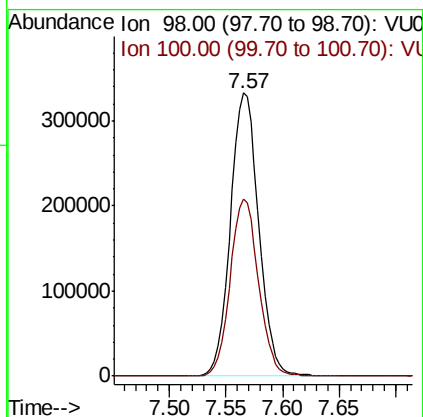
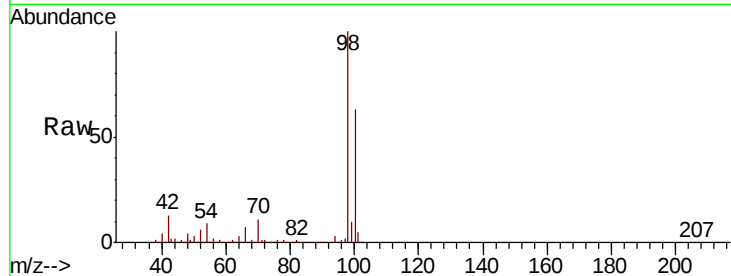




#50
Toluene-d8
Concen: 52.473 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

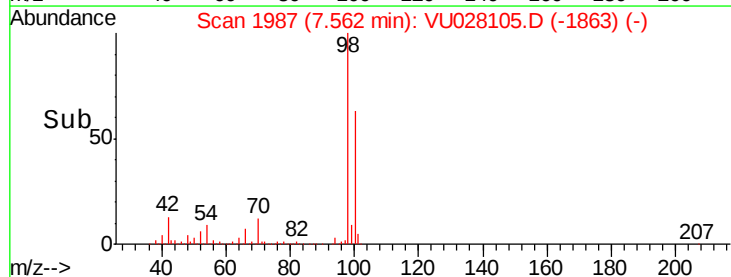
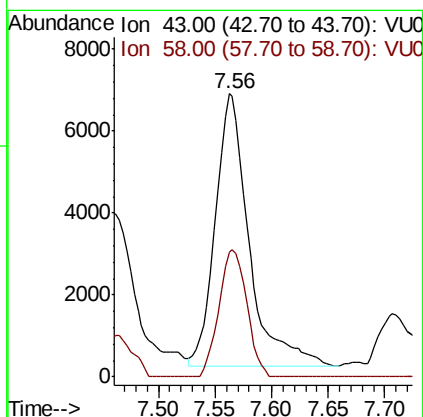
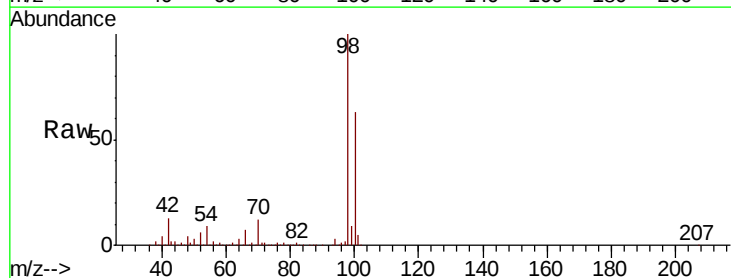
Instrument :
MSVOA_U
ClientSampleId :

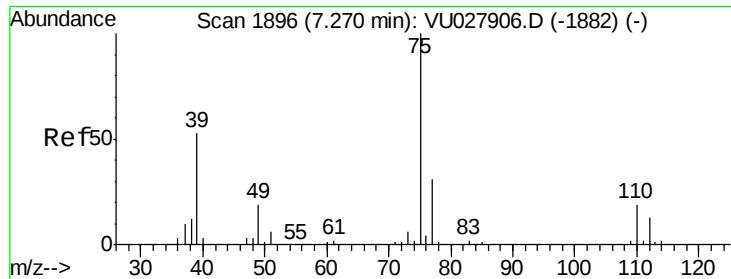
Tot Ion: 98 Resp: 580317
Ion Ratio Lower Upper
98 100
100 62.6 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.887 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.10 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion: 43 Resp: 13759
Ion Ratio Lower Upper
43 100
58 38.6 29.5 44.3

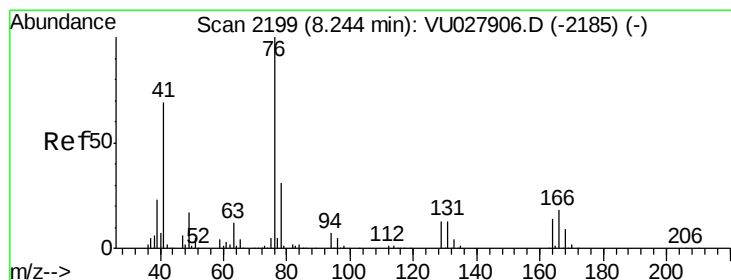
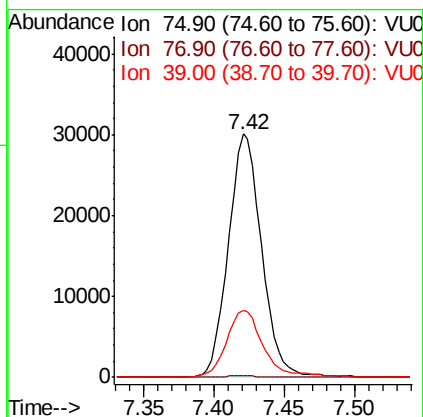
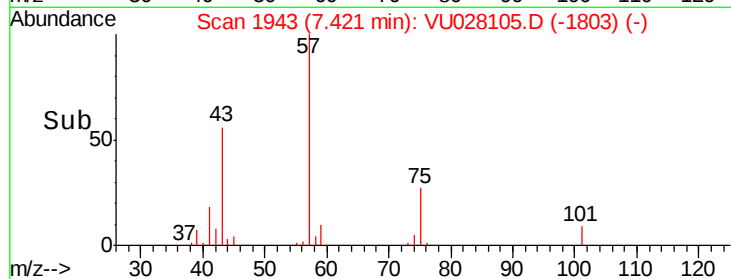
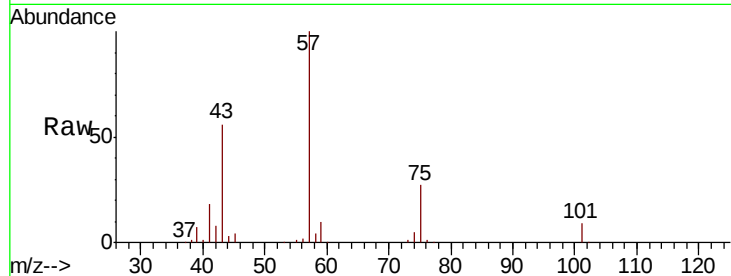




#54
 cis-1,3-Dichloropropene
 Concen: 8.651 ug/l
 RT: 7.42 min Scan# 1943
 Delta R.T. 0.15 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

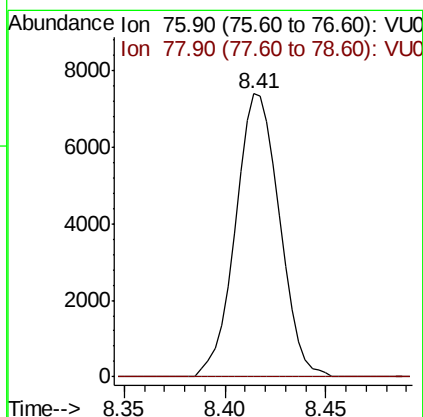
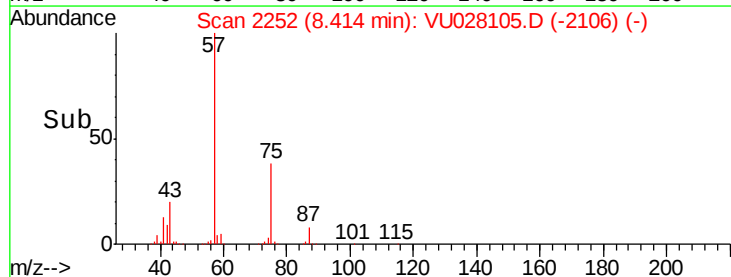
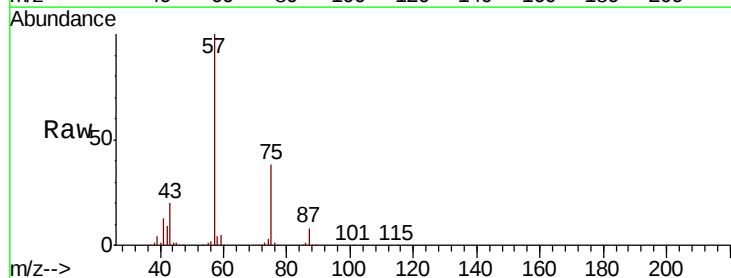
Instrument :
 MSVOA_U
 ClientSampleId :

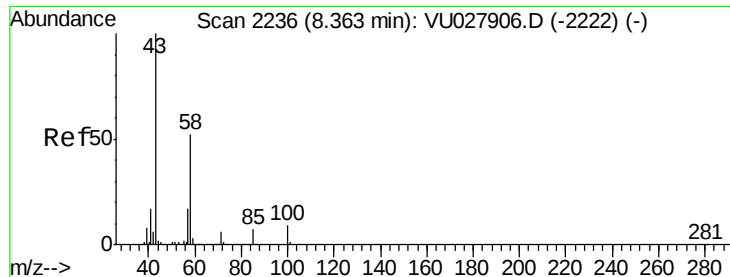
Tot Ion: 75 Resp: 49538
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.6 37.0#
 39 27.7 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 1.781 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028105.D
 Acq: 13 Nov 2018 20:31

Tgt Ion: 76 Resp: 11283
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

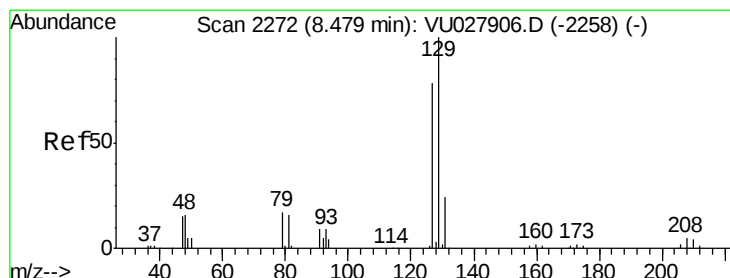
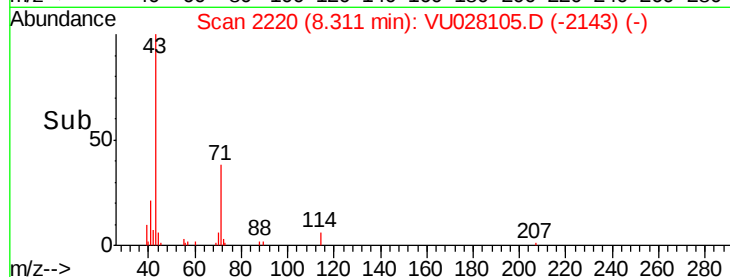
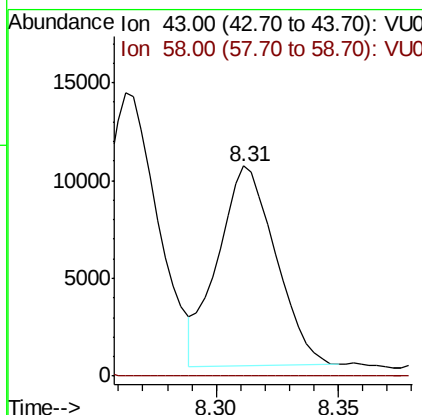
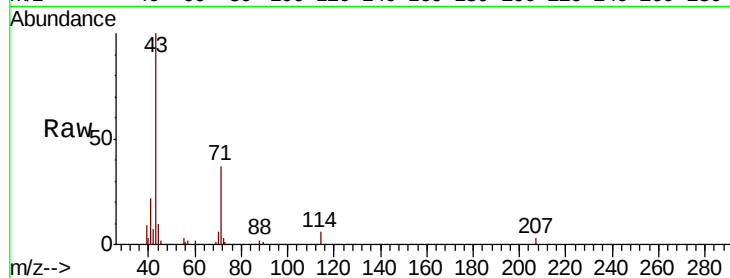




#59
2-Hexanone
Concen: 2.980 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

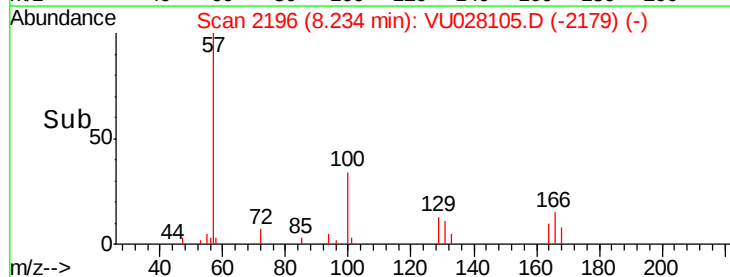
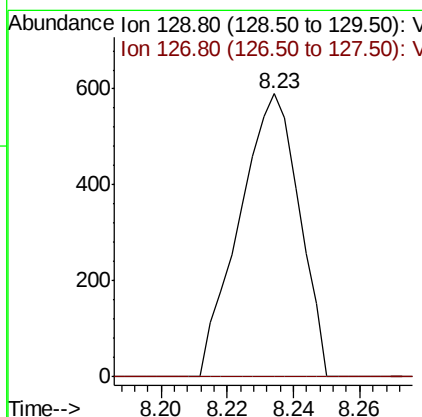
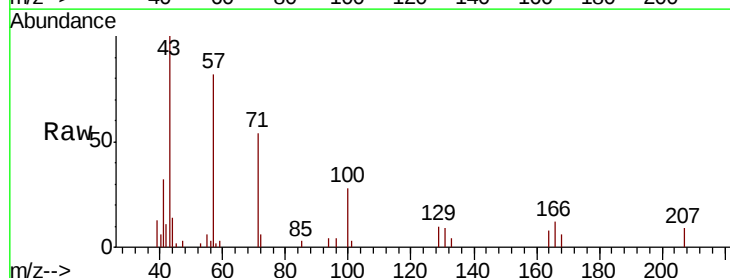
Instrument :
MSVOA_U
ClientSampleId :

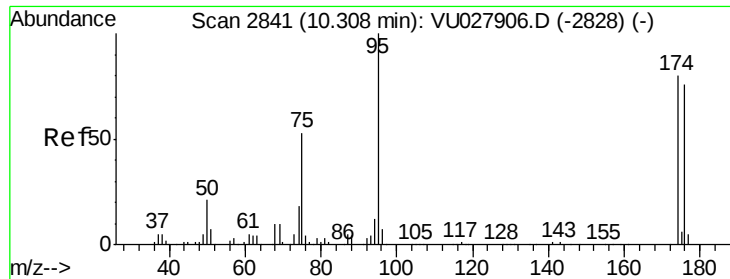
Tot Ion: 43 Resp: 16805
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#60
Dibromochloromethane
Concen: 0.225 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion: 129 Resp: 740
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#

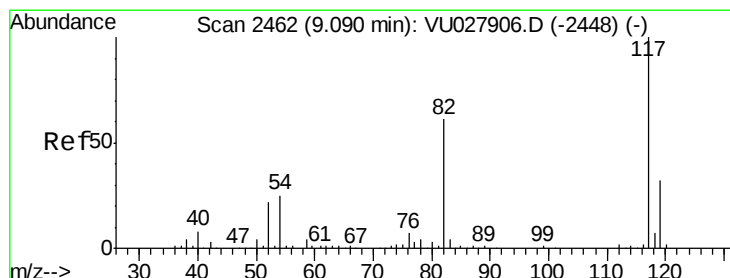
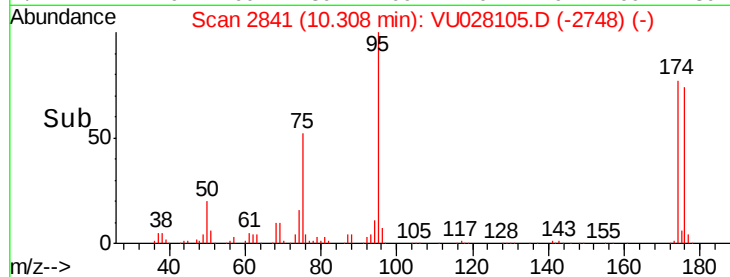
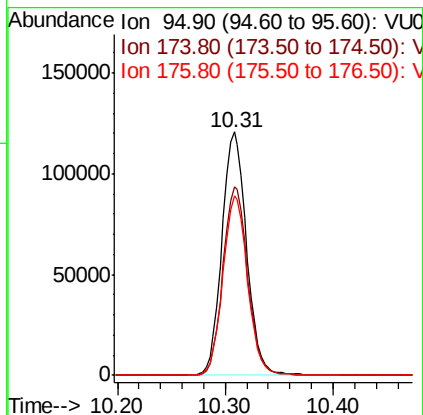
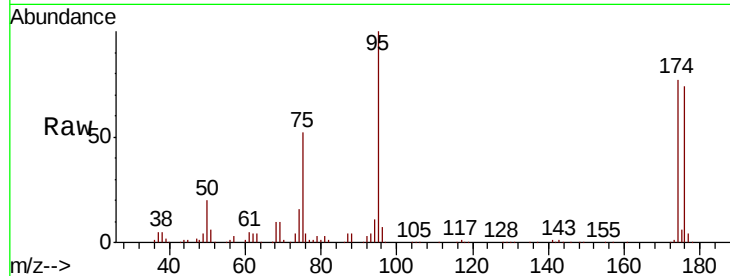




#62
4-Bromofluorobenzene
Concen: 47.080 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

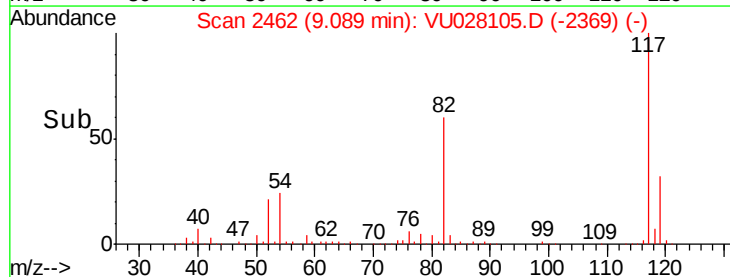
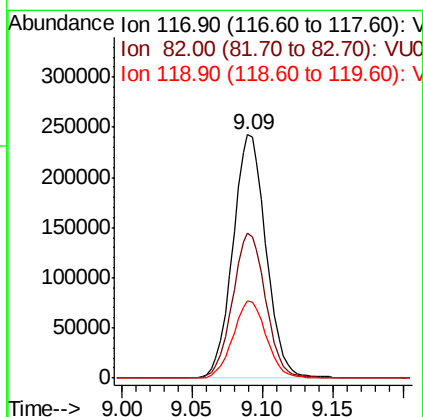
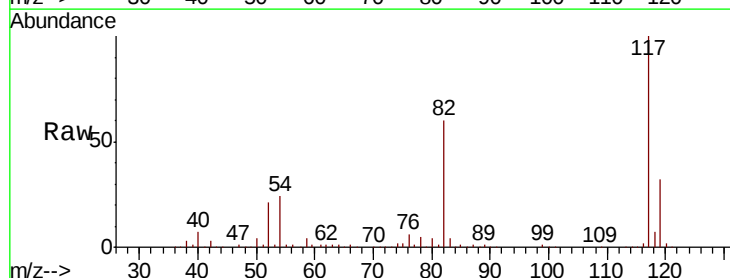
Instrument :
MSVOA_U
ClientSampleId :

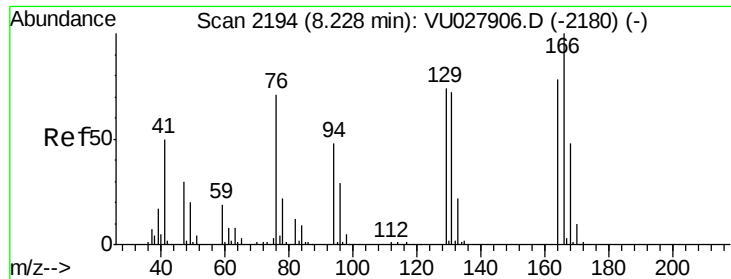
Tot Ion: 95 Resp: 192048
Ion Ratio Lower Upper
95 100
174 77.9 0.0 156.4
176 74.1 0.0 150.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion: 117 Resp: 398924
Ion Ratio Lower Upper
117 100
82 59.6 48.6 73.0
119 31.6 25.8 38.8





#64

Tetrachloroethene

Concen: 0.316 ug/l

RT: 8.22 min Scan# 2193

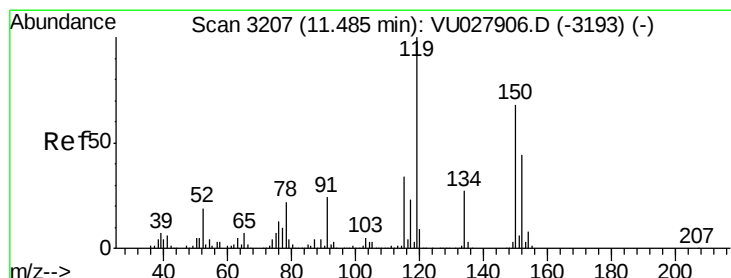
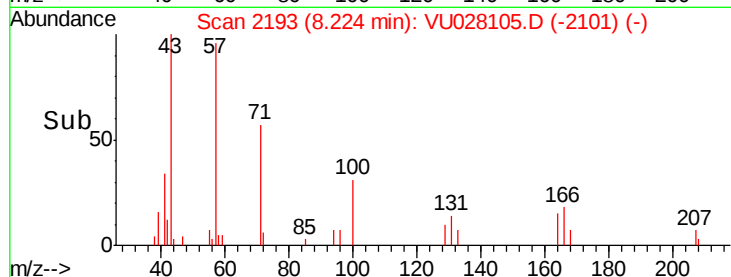
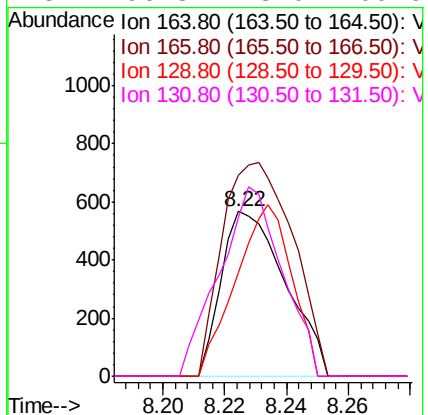
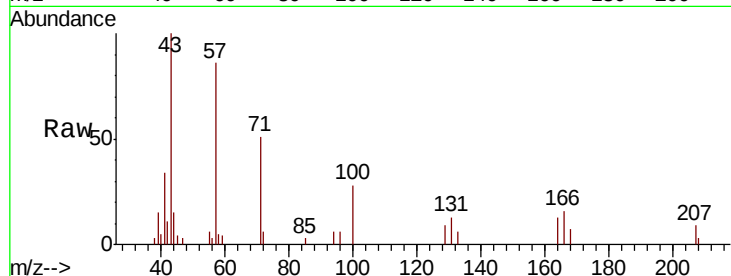
Delta R.T. -0.00 min

Lab File: VU028105.D

Acq: 13 Nov 2018 20:31

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164	Resp:	817
Ion	Ratio	Lower Upper
164	100	
166	122.0	102.1 153.1
129	63.3	75.9 113.9#
131	96.3	73.0 109.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

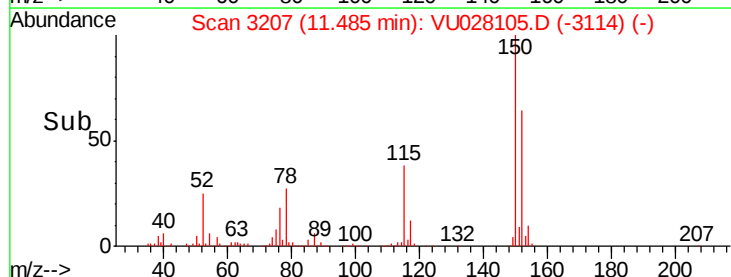
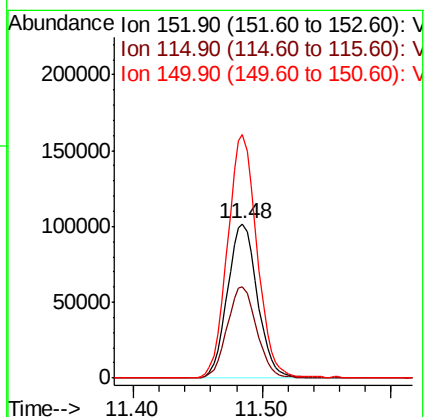
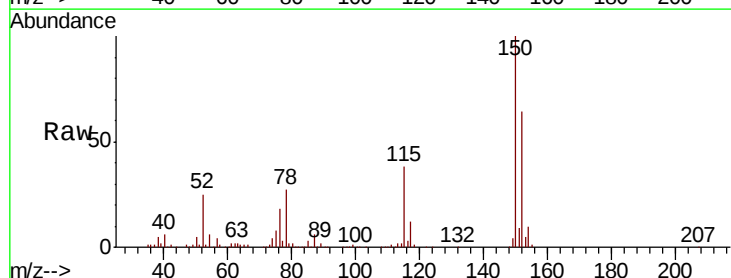
RT: 11.48 min Scan# 3207

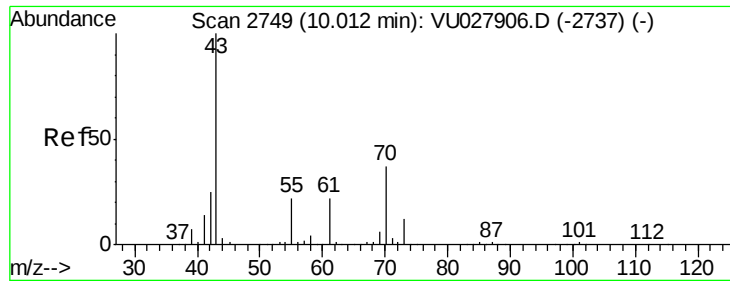
Delta R.T. -0.00 min

Lab File: VU028105.D

Acq: 13 Nov 2018 20:31

Tgt Ion:152	Resp:	164177
Ion	Ratio	Lower Upper
152	100	
115	58.5	43.0 129.0
150	155.0	0.0 349.4





#74

N-amvl acetate

Concen: 2.054 ug/l

RT: 9.77 min Scan# 2673

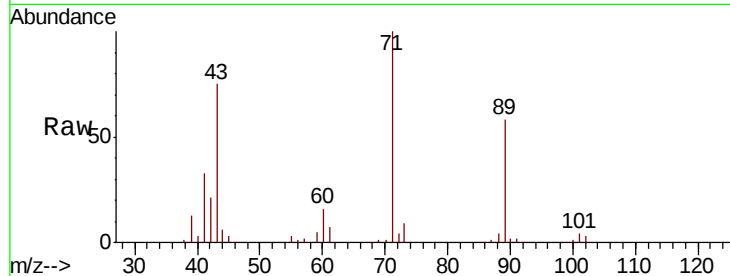
Delta R.T. -0.24 min

Lab File: VU028105.D

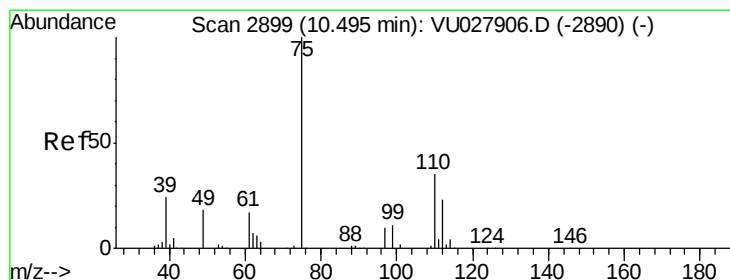
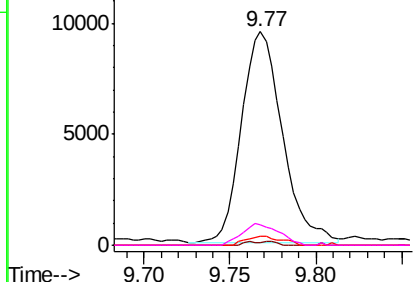
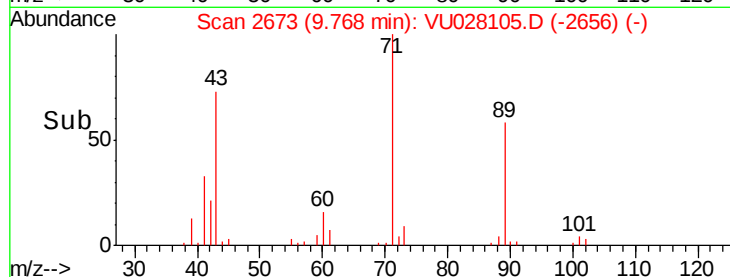
Acq: 13 Nov 2018 20:31

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	15794
Ion	Ratio	Lower	Upper
43	100		
70	1.2	29.2	43.8#
55	3.7	17.8	26.6#
61	9.3	17.8	26.8#



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: 22.026 ug/l

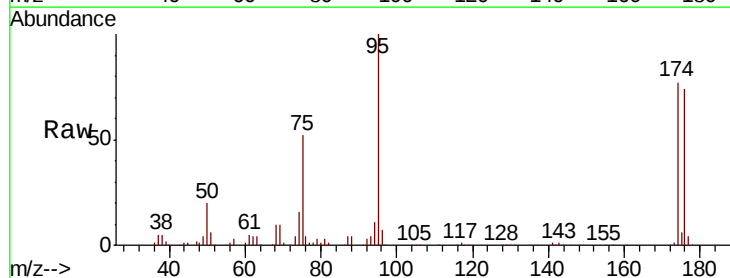
RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

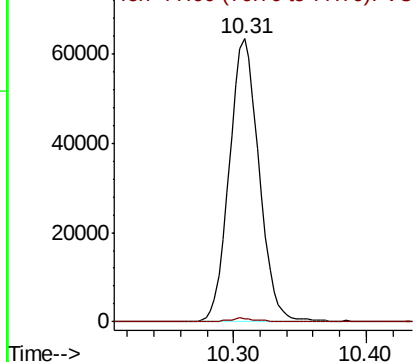
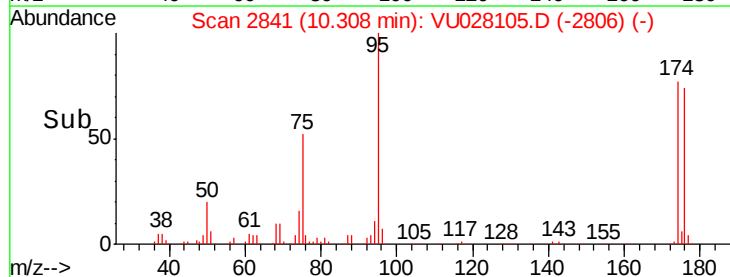
Lab File: VU028105.D

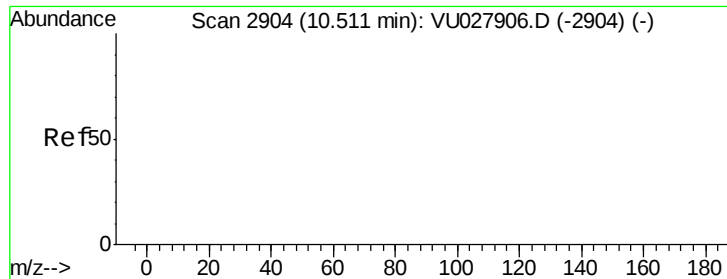
Acq: 13 Nov 2018 20:31

Tgt Ion:	75	Resp:	98911
Ion	Ratio	Lower	Upper
75	100		
77	1.2	21.6	64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

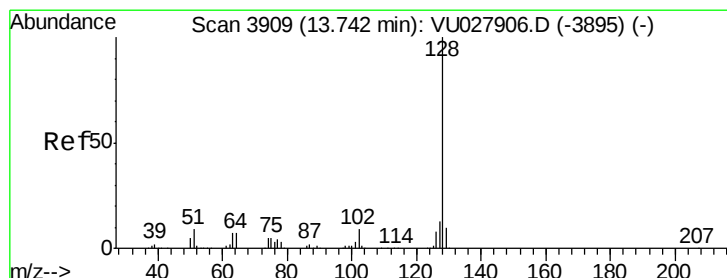
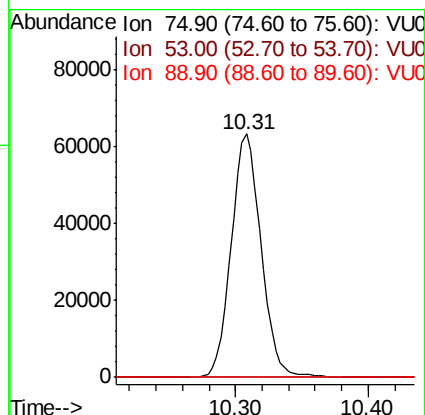
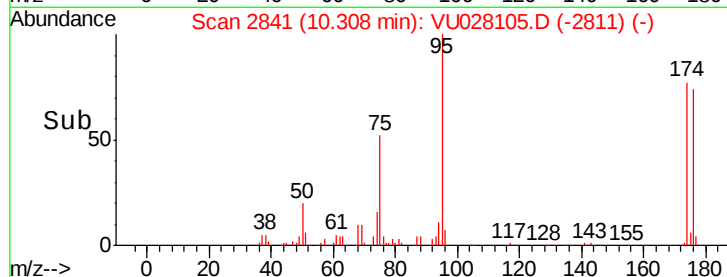
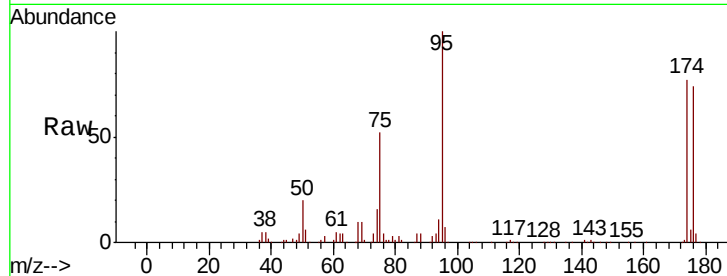




#81
trans-1,4-Dichloro-2-butene
Concen: 54.967 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 75 Resp: 98911
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 0.902 ug/l
RT: 13.75 min Scan# 3912
Delta R.T. 0.01 min
Lab File: VU028105.D
Acq: 13 Nov 2018 20:31

Tgt Ion:128 Resp: 14541
Ion Ratio Lower Upper
128 100
127 12.1 10.4 15.6
129 10.3 8.3 12.5

