

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028099.D
 Acq On : 13 Nov 2018 18:06
 Operator : MD/SY
 Sample : J5909-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:00:56 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

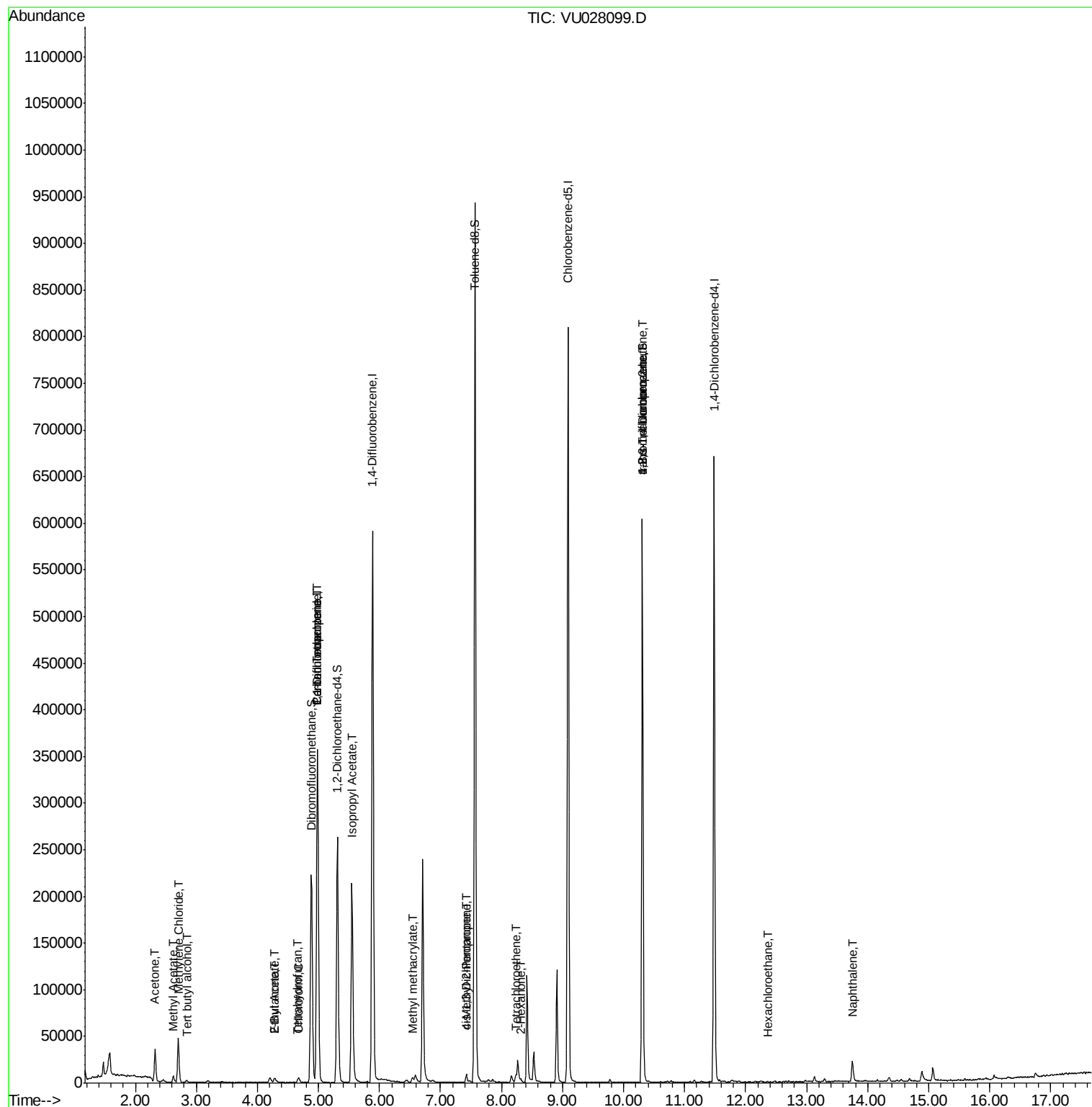
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	267992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	488392	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	430360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	171014	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	202331	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
35) Dibromofluoromethane	4.88	113	156148	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
50) Toluene-d8	7.57	98	618438	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
62) 4-Bromofluorobenzene	10.31	95	199991	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.84	59	1922	1.822	ug/l #	73
13) Acrolein	2.20	56	313	Below Cal	#	19
16) Acetone	2.32	43	36672	14.835	ug/l	98
18) Methyl Acetate	2.62	43	8518	1.253	ug/l	100
20) Methylene Chloride	2.70	84	20799	5.763	ug/l	95
25) 2-Butanone	4.29	43	8469	2.153	ug/l	92
29) Tetrahydrofuran	4.66	42	1330	0.506	ug/l #	76
30) Chloroform	4.68	83	3382	0.523	ug/l	98
31) Cyclohexane	4.98	56	5963	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	22316	4.363	ug/l #	49
37) Ethyl Acetate	4.29	43	8469	1.130	ug/l #	71
38) Carbon Tetrachloride	4.99	117	26045	5.746	ug/l #	16
43) Isopropyl Acetate	5.55	43	252970	21.544	ug/l	97
48) Methyl methacrylate	6.54	41	7827	1.360	ug/l #	26
51) 4-Methyl-2-Pentanone	7.42	43	4167	0.531	ug/l #	38
54) cis-1,3-Dichloropropene	7.42	75	1516	0.246	ug/l #	68
59) 2-Hexanone	8.31	43	2214	0.365	ug/l #	26
64) Tetrachloroethene	8.23	164	1052	0.377	ug/l #	80
76) 1,2,3-Trichloropropane	10.31	75	104229	22.282	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	104229	55.604	ug/l #	100
90) Hexachloroethane	12.36	117	649	0.327	ug/l #	11
95) Naphthalene	13.75	128	22382	1.419	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

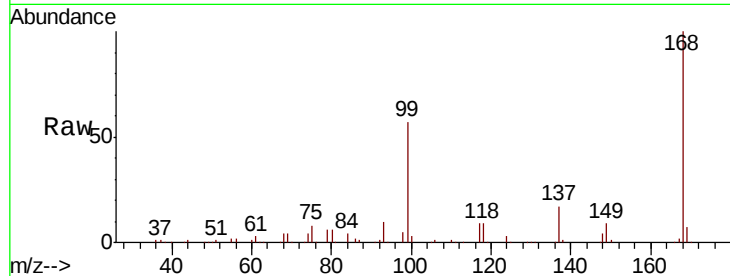
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 267992

Ion Ratio Lower Upper

168 100

99 57.2 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

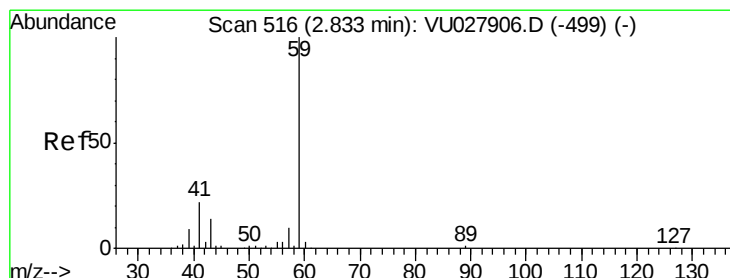
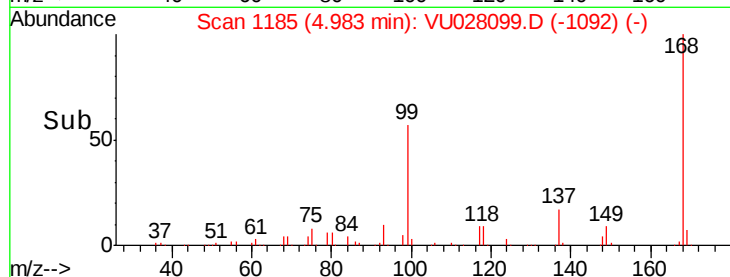
4.98

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.822 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028099.D

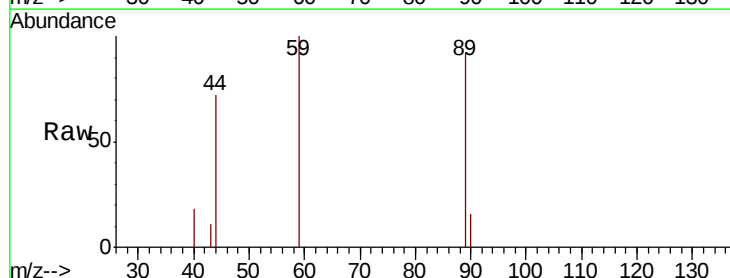
Acq: 13 Nov 2018 18:06

Tgt Ion: 59 Resp: 1922

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): VU027906.D (-499) (-)

2.84

1200

1000

800

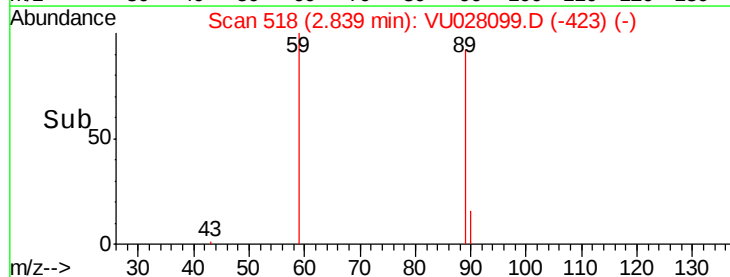
600

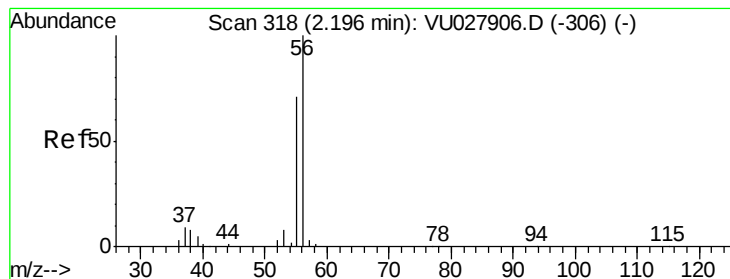
400

200

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

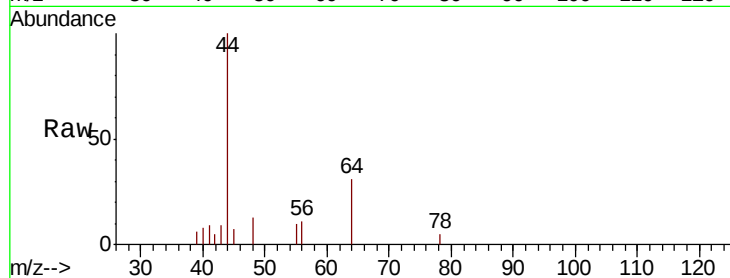
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 313

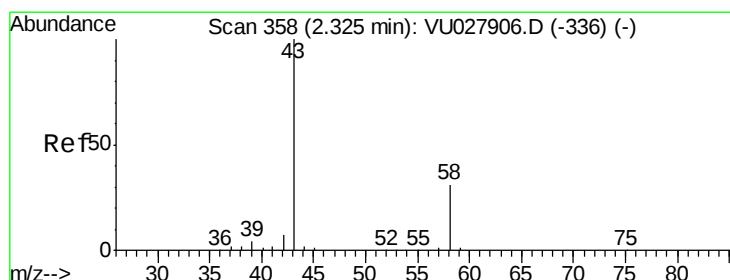
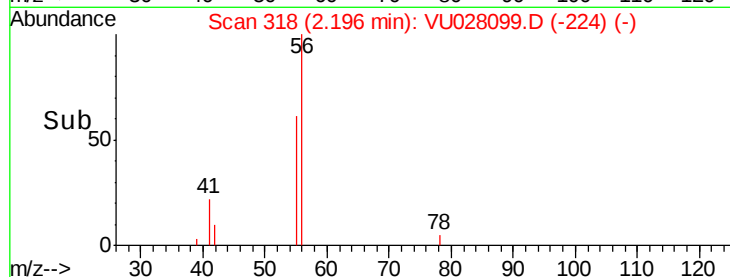
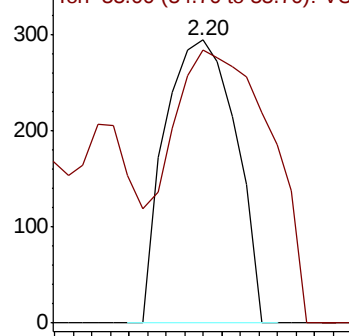
Ion Ratio Lower Upper

56 100

55 136.7 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028099.D (-224) (-)



#16

Acetone

Concen: 14.835 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028099.D

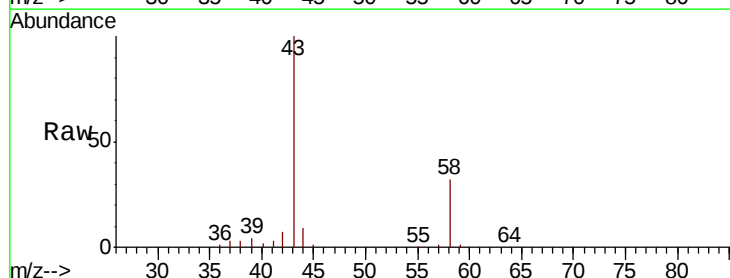
Acq: 13 Nov 2018 18:06

Tgt Ion: 43 Resp: 36672

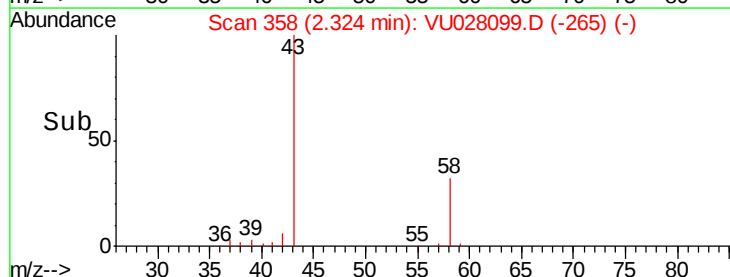
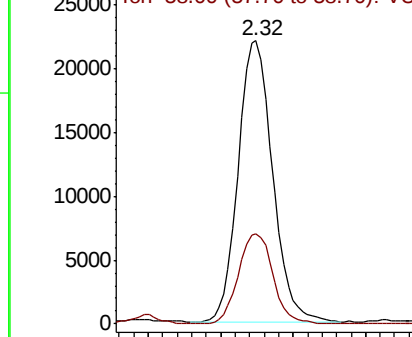
Ion Ratio Lower Upper

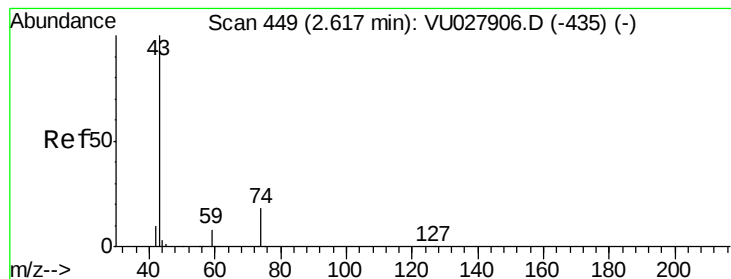
43 100

58 31.9 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU028099.D (-265) (-)





#18

Methyl Acetate

Concen: 1.253 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

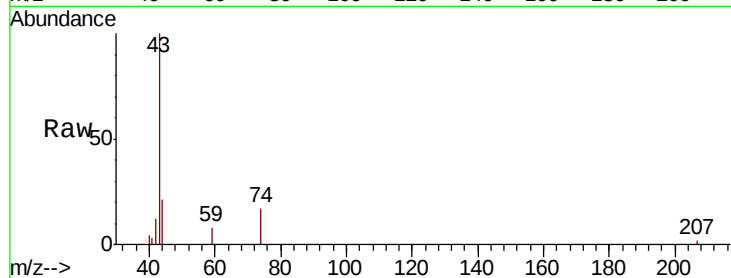
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 8518

Ion Ratio Lower Upper

43 100

74 18.7 14.9 22.3

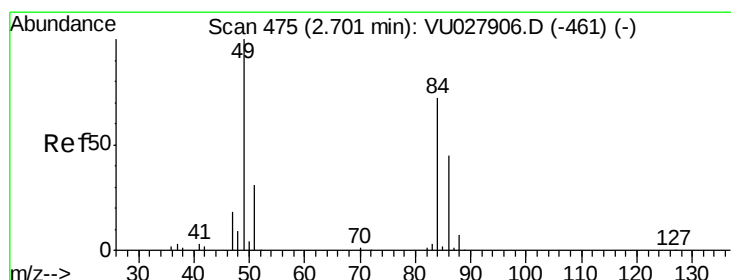
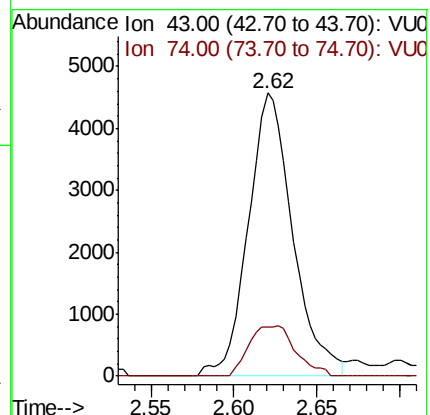
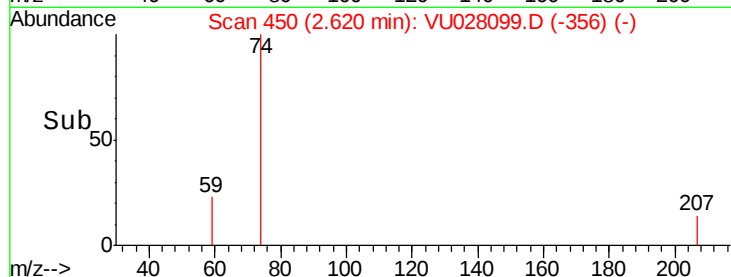


Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU027906.D (-435) (-)

2.62

Time-->



#20

Methylene Chloride

Concen: 5.763 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

Tgt Ion: 84 Resp: 20799

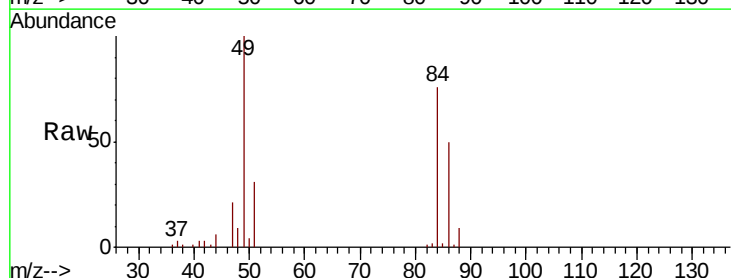
Ion Ratio Lower Upper

84 100

49 130.8 111.6 167.4

51 41.2 34.8 52.2

86 65.0 50.1 75.1



Abundance Ion 83.90 (83.60 to 84.60): VU027906.D (-461) (-)

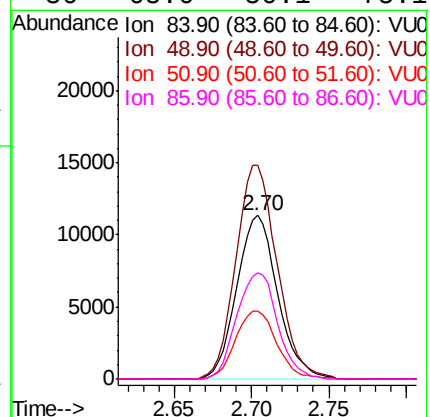
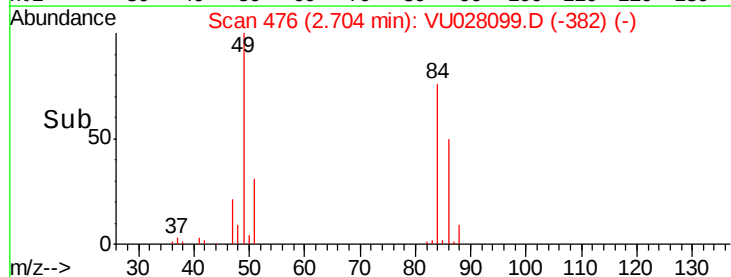
Ion 48.90 (48.60 to 49.60): VU027906.D (-461) (-)

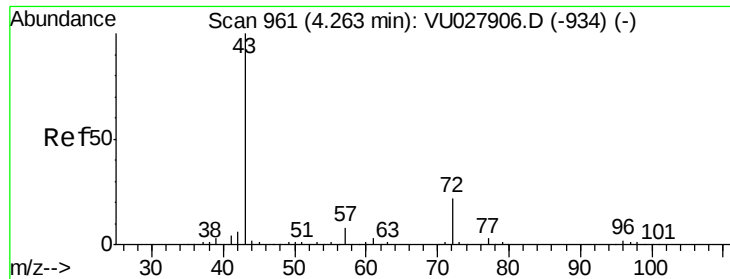
Ion 50.90 (50.60 to 51.60): VU027906.D (-461) (-)

Ion 85.90 (85.60 to 86.60): VU027906.D (-461) (-)

2.70

Time-->





#25

2-Butanone

Concen: 2.153 ug/l

RT: 4.29 min Scan# 969

Delta R.T. 0.03 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

Instrument :

MSVOA_U

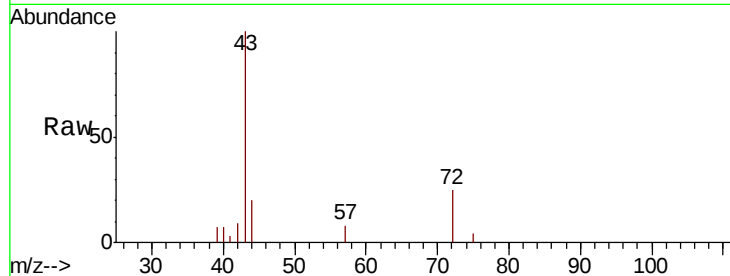
ClientSampleId :

Tot Ion: 43 Resp: 8469

Ion Ratio Lower Upper

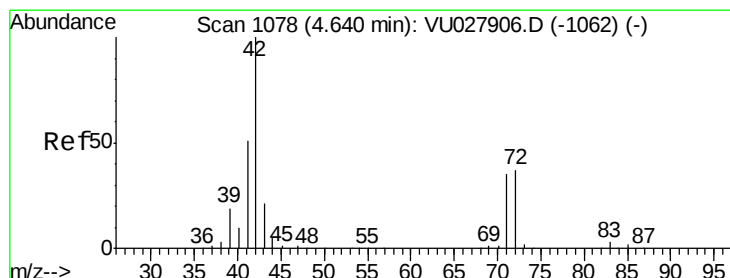
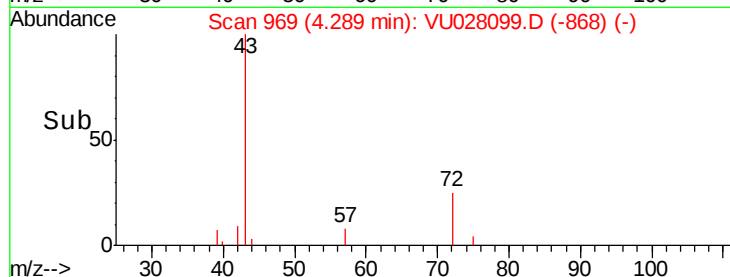
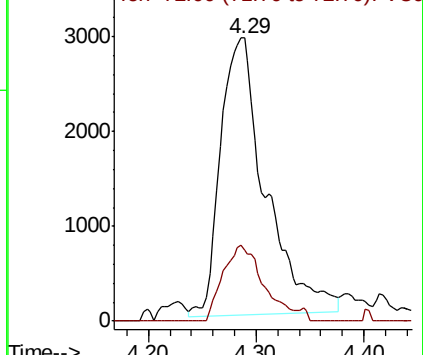
43 100

72 26.1 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-934) (-)

Ion 72.00 (71.70 to 72.70): VU027906.D (-934) (-)



#29

Tetrahydrofuran

Concen: 0.506 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

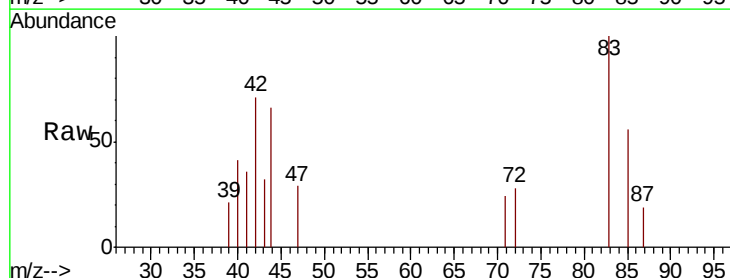
Tgt Ion: 42 Resp: 1330

Ion Ratio Lower Upper

42 100

72 24.4 29.4 44.0#

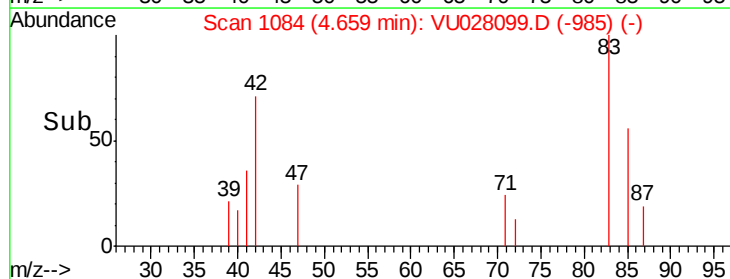
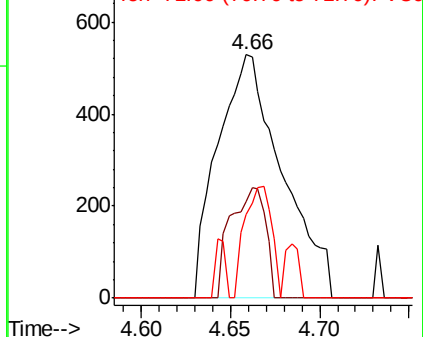
71 19.3 27.9 41.9#

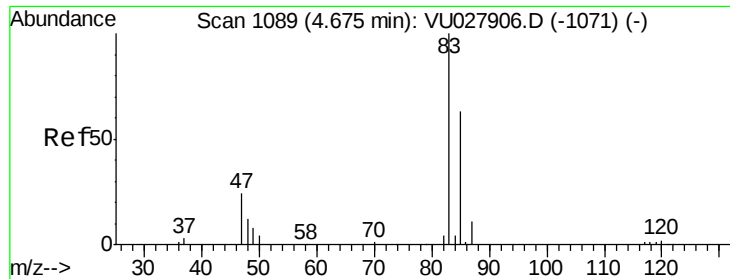


Abundance Ion 42.00 (41.70 to 42.70): VU027906.D (-1062) (-)

Ion 72.00 (71.70 to 72.70): VU027906.D (-1062) (-)

Ion 71.00 (70.70 to 71.70): VU027906.D (-1062) (-)

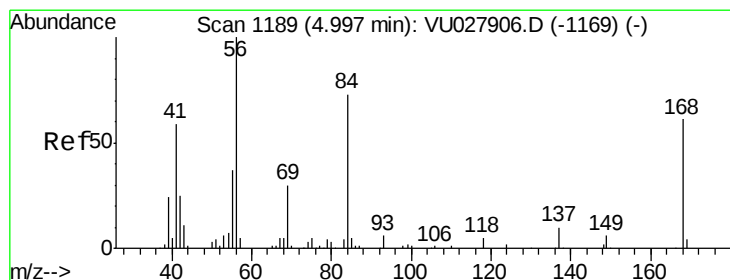
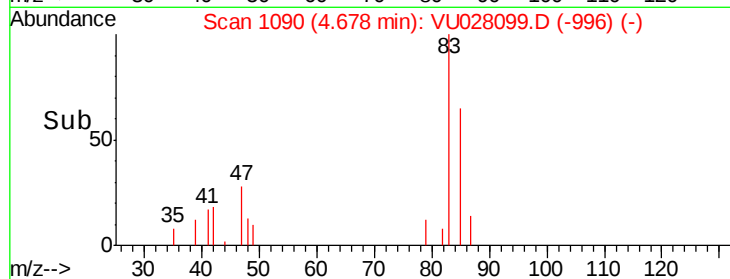
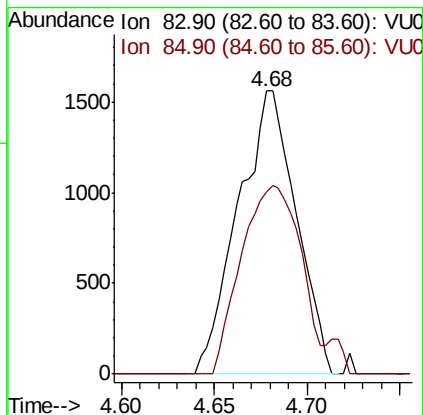
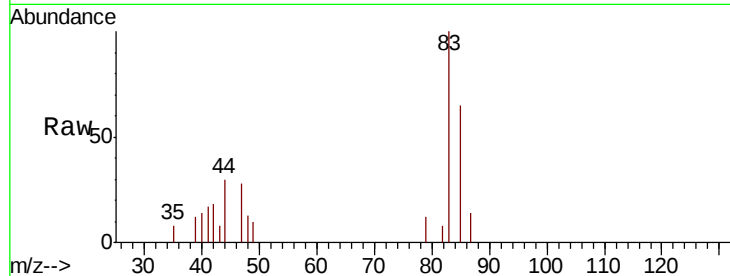




#30
Chloroform
Concen: 0.523 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

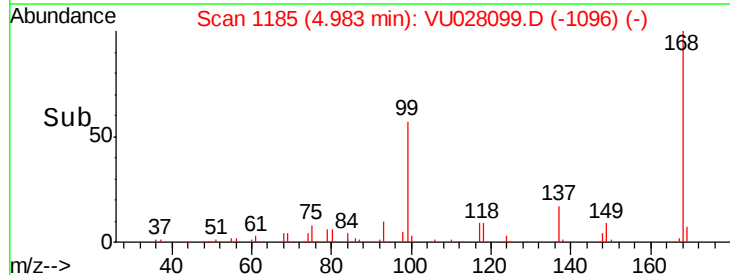
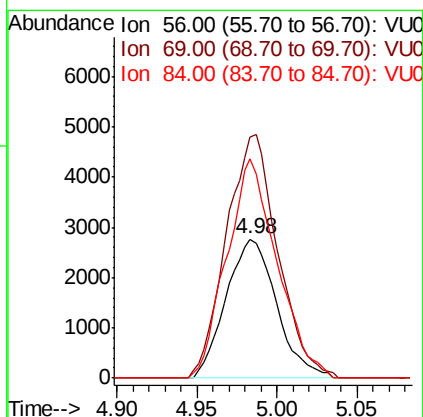
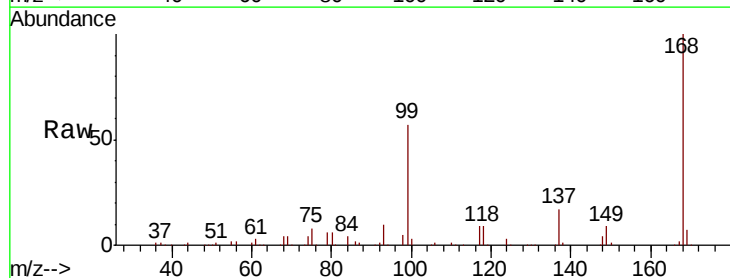
Instrument :
MSVOA_U
ClientSampleId :

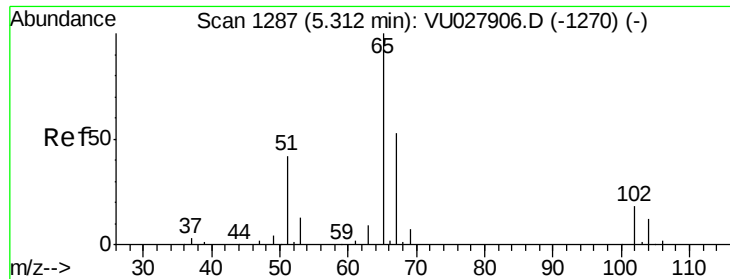
Tot Ion: 83 Resp: 3382
Ion Ratio Lower Upper
83 100
85 64.6 50.6 76.0



#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

Tgt Ion: 56 Resp: 5963
Ion Ratio Lower Upper
56 100
69 173.2 23.7 35.5#
84 157.5 58.2 87.4#

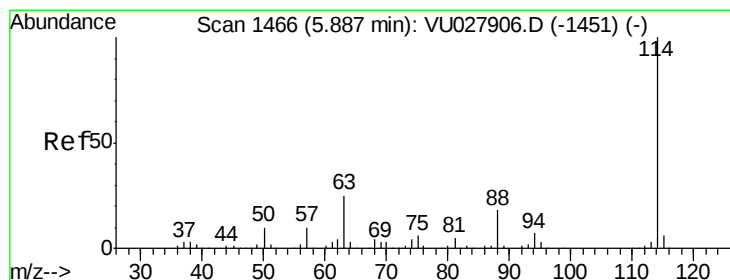
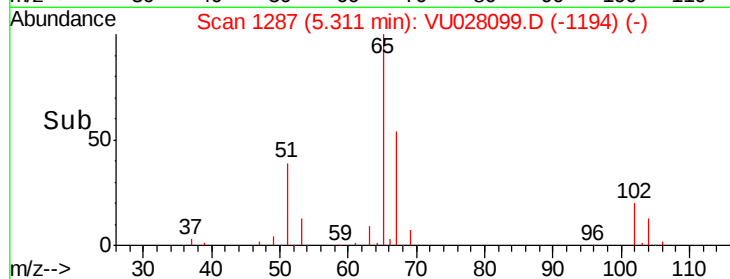
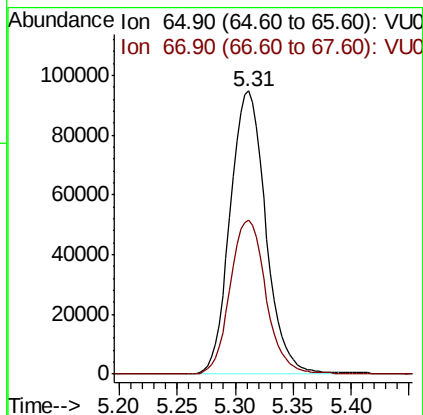
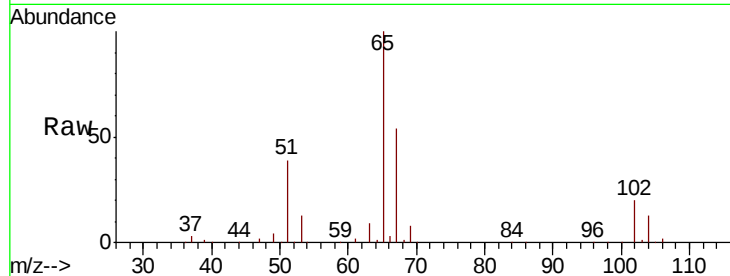




#33
 1,2-Dichloroethane-d4
 Concen: 50.781 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028099.D
 Acq: 13 Nov 2018 18:06

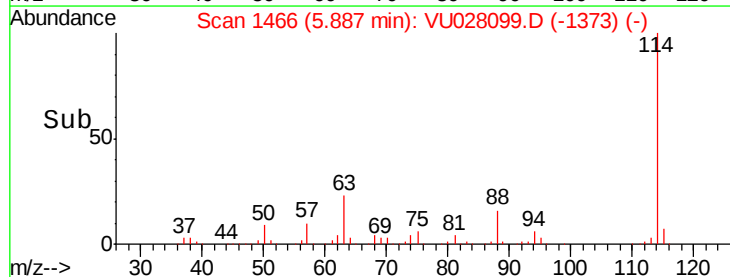
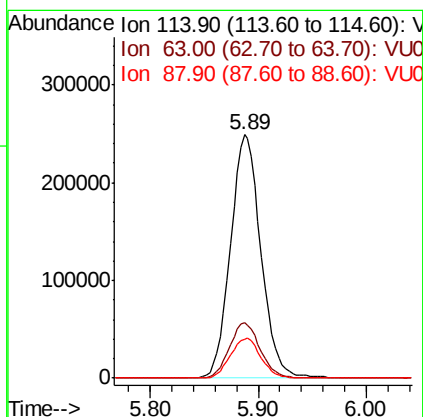
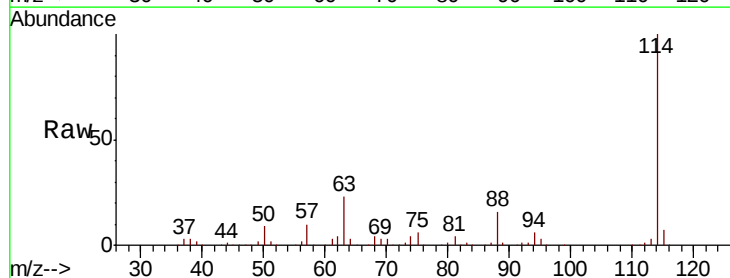
Instrument :
 MSVOA_U
 ClientSampleId :

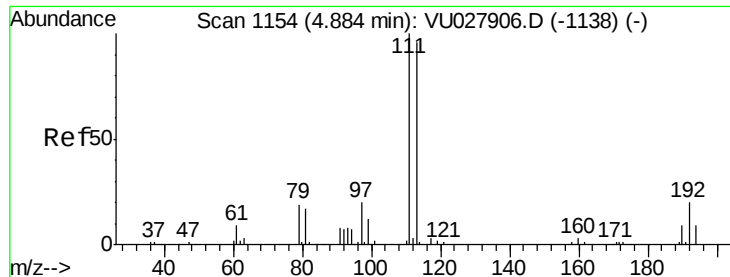
Tot Ion: 65 Resp: 202331
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028099.D
 Acq: 13 Nov 2018 18:06

Tgt Ion: 114 Resp: 488392
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 50.8
 88 16.2 0.0 35.8

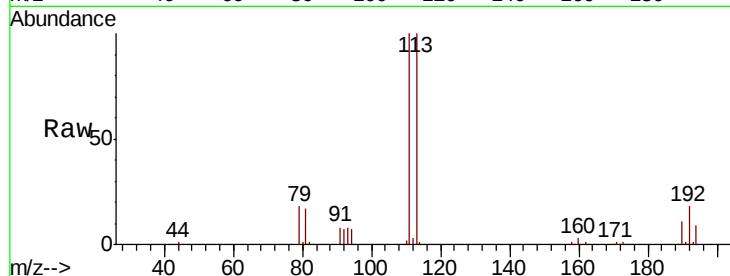




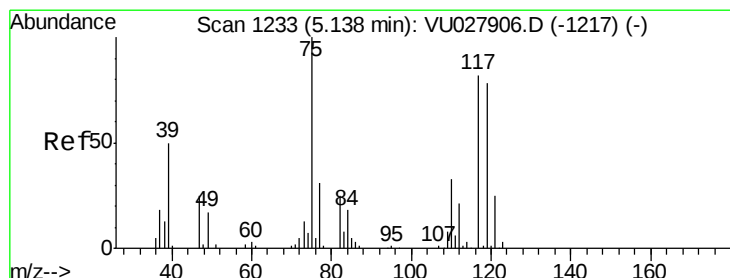
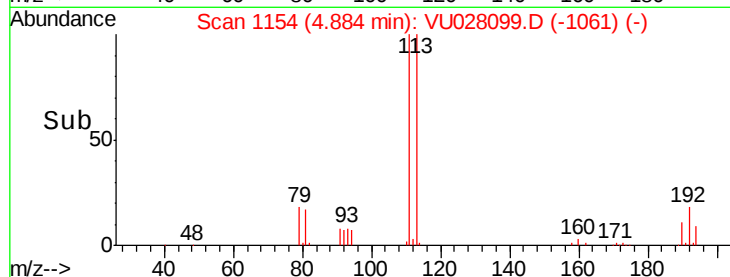
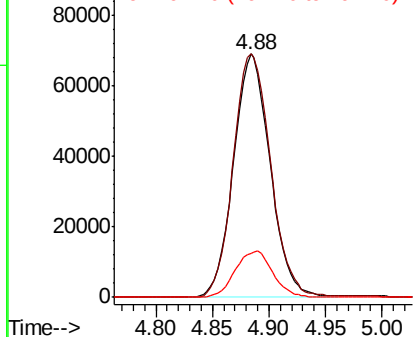
#35
 Dibromofluoromethane
 Concen: 50.707 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028099.D
 Acq: 13 Nov 2018 18:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:113 Resp: 156148
 Ion Ratio Lower Upper
 113 100
 111 102.1 83.0 124.6
 192 19.5 15.6 23.4

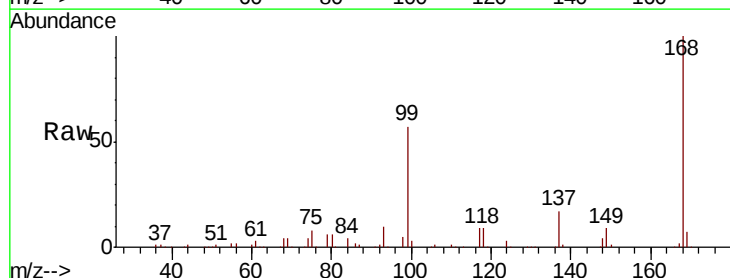


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

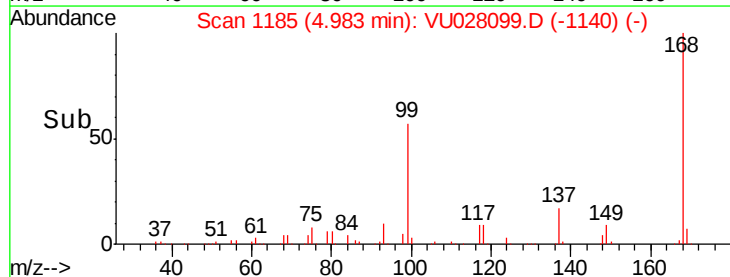
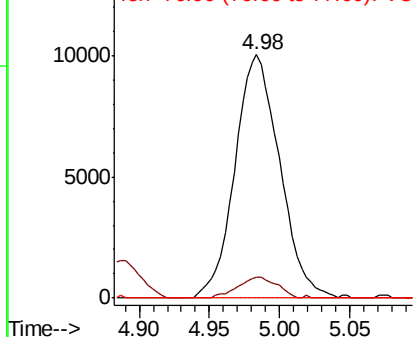


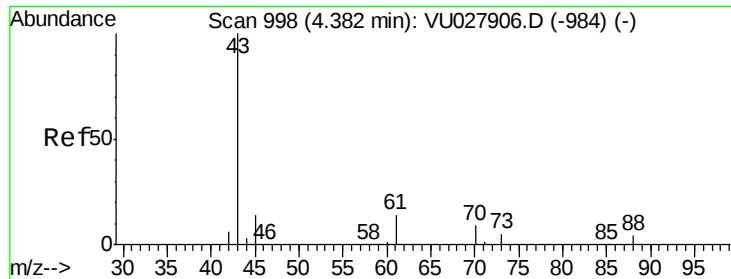
#36
 1,1-Dichloropropene
 Concen: 4.363 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028099.D
 Acq: 13 Nov 2018 18:06

Tgt Ion: 75 Resp: 22316
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.5 49.5#
 77 0.0 24.9 37.3#



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





#37

Ethyl Acetate

Concen: 1.130 ug/l

RT: 4.29 min Scan# 969

Delta R.T. -0.09 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

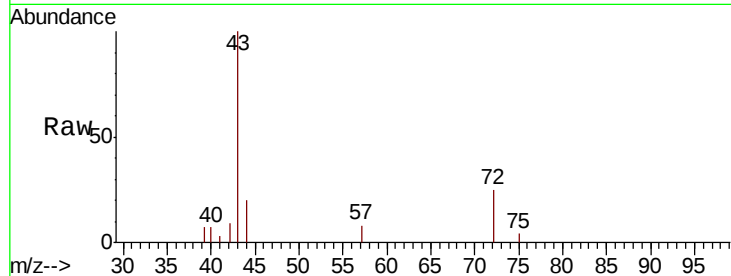
Tot Ion: 43 Resp: 8469

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

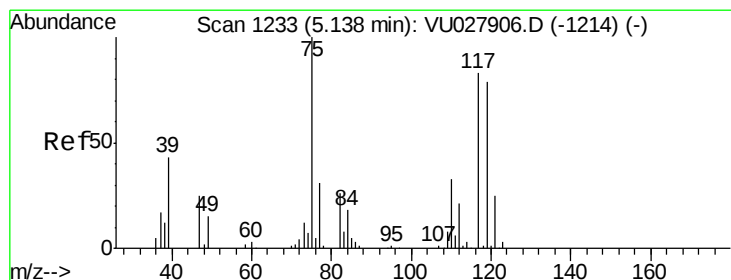
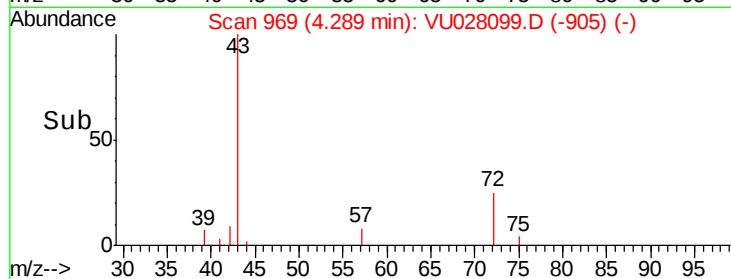
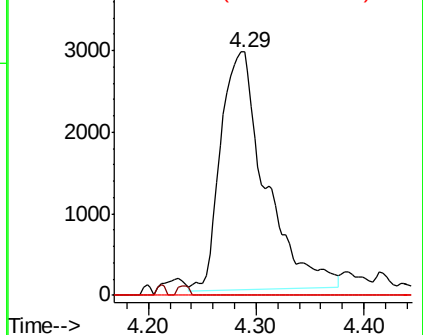
70 0.0 7.0 10.6#



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-984) (-)

Ion 60.90 (60.60 to 61.60): VU027906.D (-984) (-)

Ion 70.00 (69.70 to 70.70): VU027906.D (-984) (-)



#38

Carbon Tetrachloride

Concen: 5.746 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

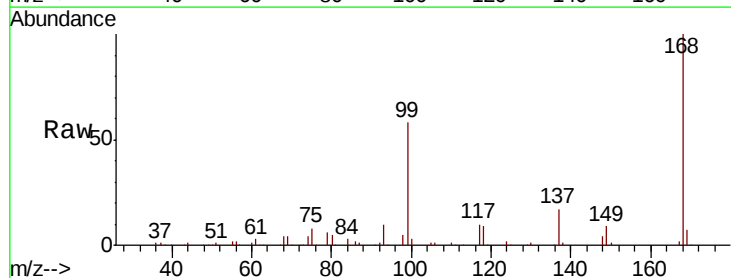
Tgt Ion: 117 Resp: 26045

Ion Ratio Lower Upper

117 100

119 4.0 76.0 114.0#

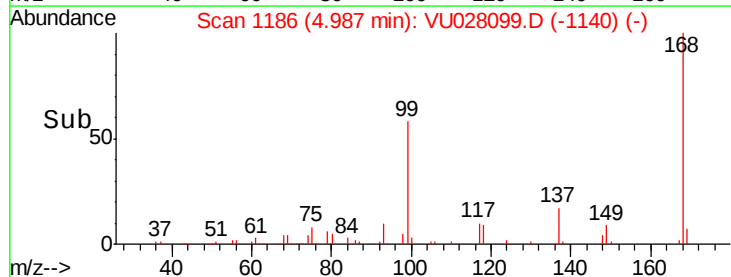
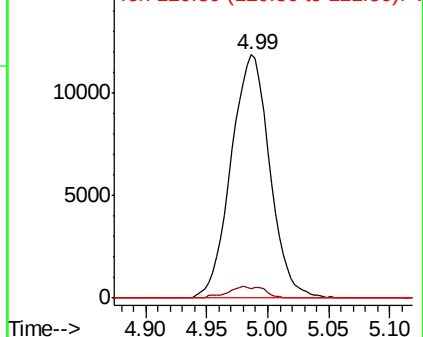
121 0.0 24.5 36.7#

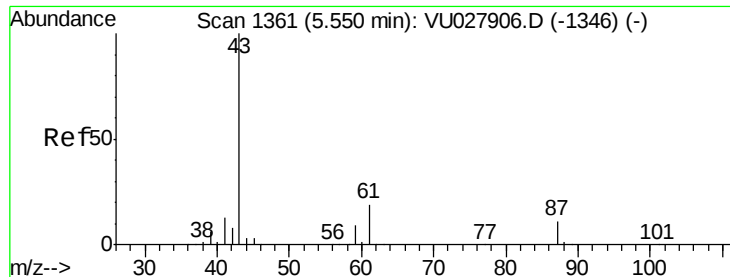


Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)





#43

Isopropyl Acetate

Concen: 21.544 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

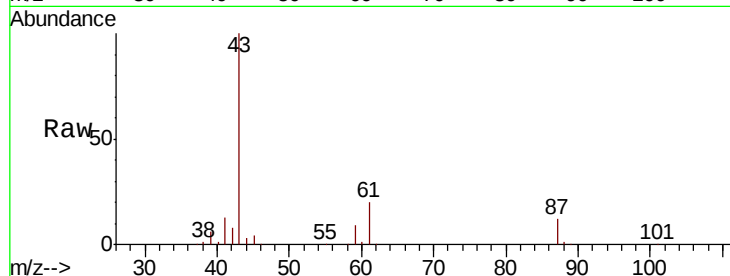
Tot Ion: 43 Resp: 252970

Ion Ratio Lower Upper

43 100

61 19.7 15.0 22.4

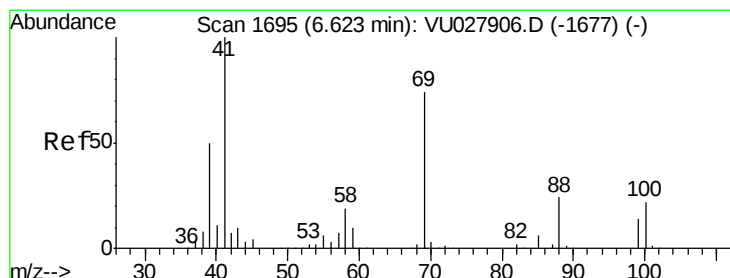
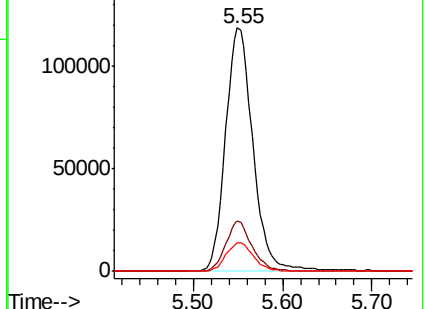
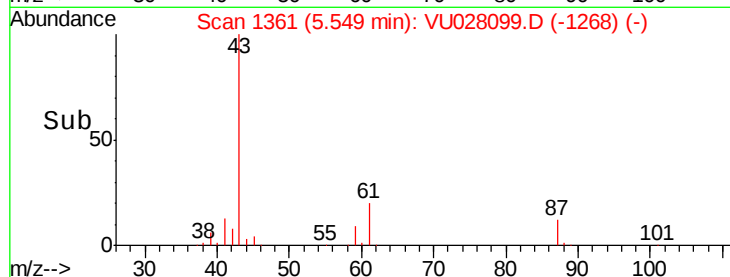
87 11.8 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1346) (-)

Ion 61.00 (60.70 to 61.70): VU027906.D (-1346) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-1346) (-)



#48

Methyl methacrylate

Concen: 1.360 ug/l

RT: 6.54 min Scan# 1669

Delta R.T. -0.08 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

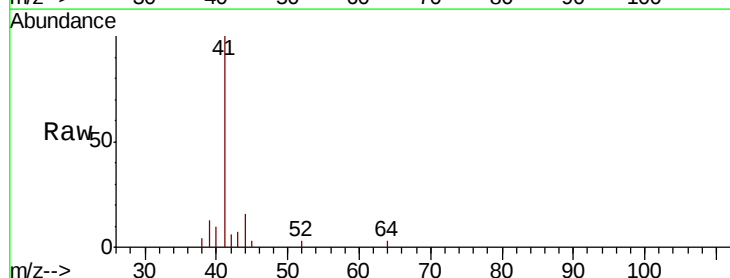
Tgt Ion: 41 Resp: 7827

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

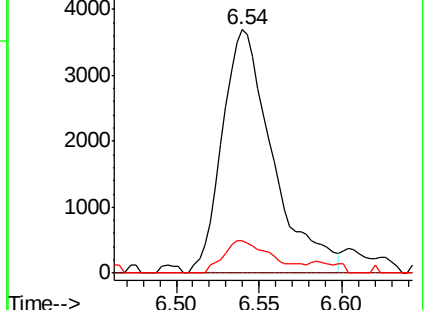
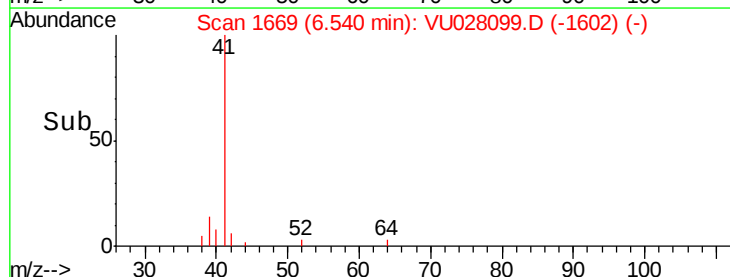
39 12.9 40.0 60.0#

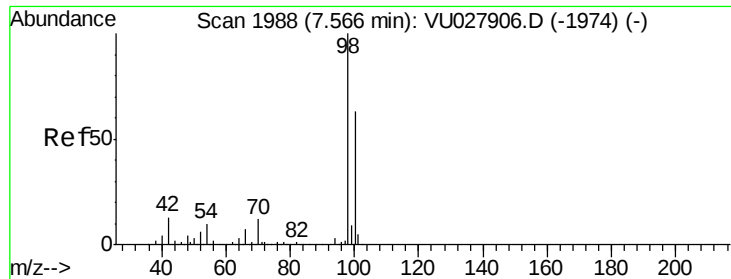


Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-1677) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1677) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1677) (-)

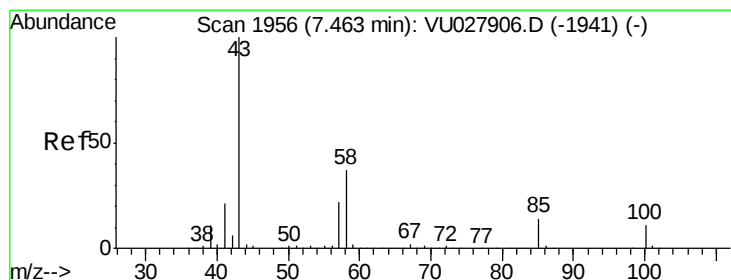
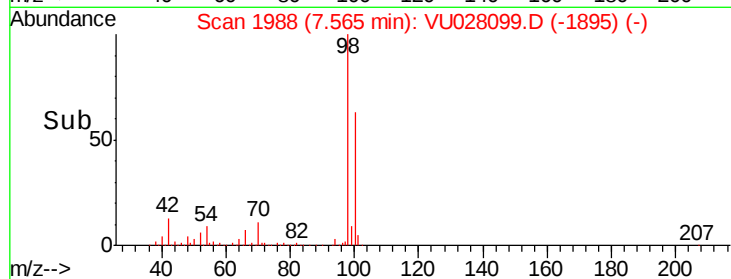
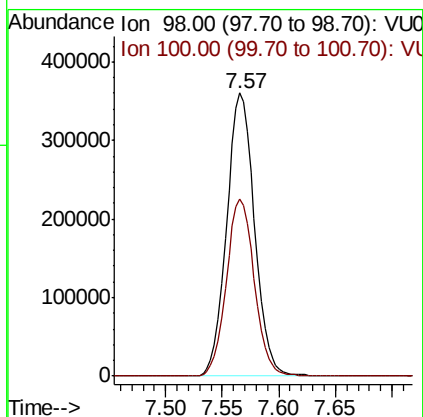
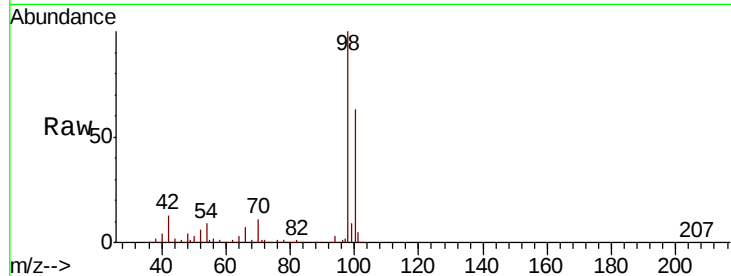




#50
Toluene-d8
Concen: 51.990 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

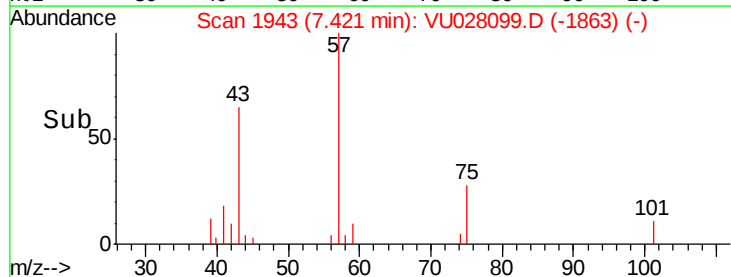
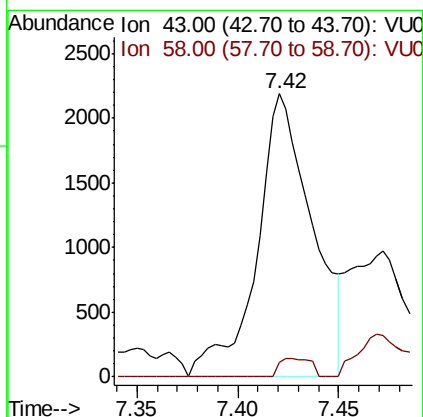
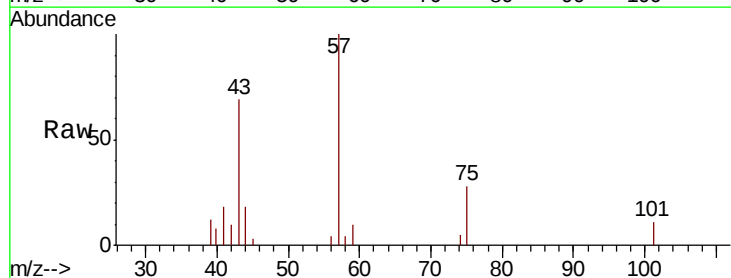
Instrument :
MSVOA_U
ClientSampleId :

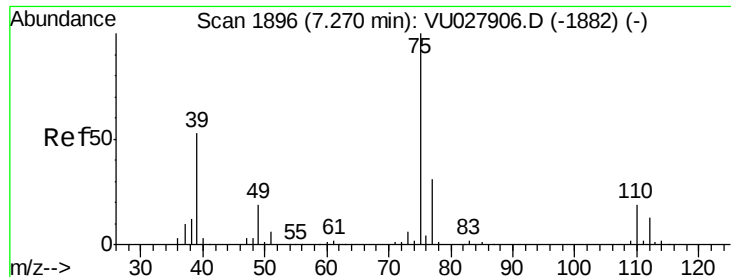
Tot Ion: 98 Resp: 618438
Ion Ratio Lower Upper
98 100
100 62.8 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 0.531 ug/l
RT: 7.42 min Scan# 1943
Delta R.T. -0.04 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

Tgt Ion: 43 Resp: 4167
Ion Ratio Lower Upper
43 100
58 0.0 29.5 44.3#

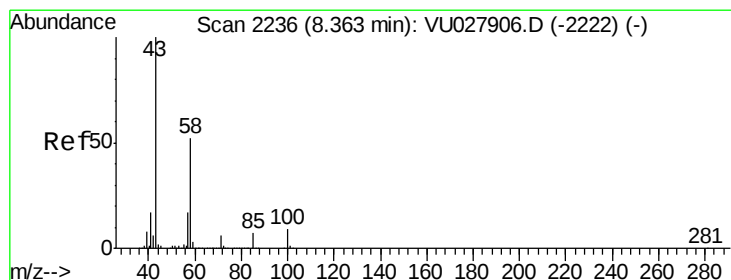
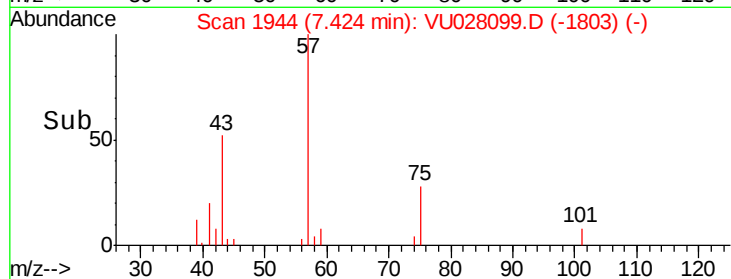
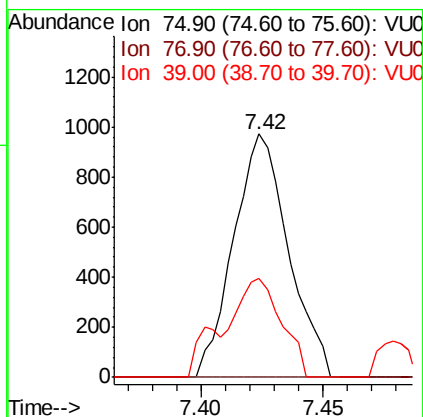
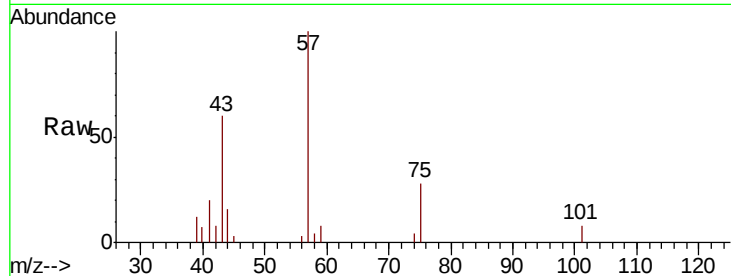




#54
 cis-1,3-Dichloropropene
 Concen: 0.246 ug/l
 RT: 7.42 min Scan# 1944
 Delta R.T. 0.15 min
 Lab File: VU028099.D
 Acq: 13 Nov 2018 18:06

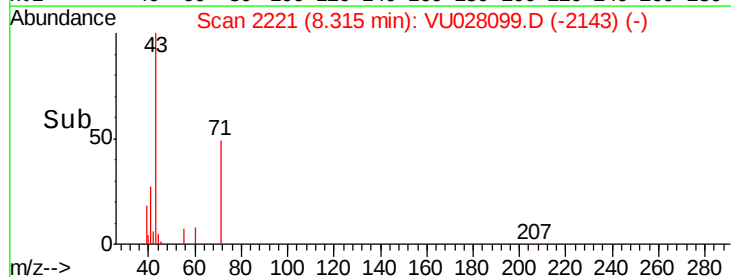
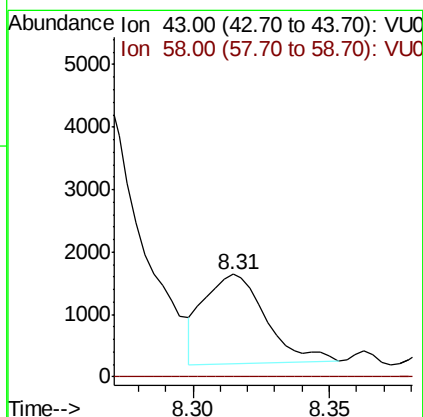
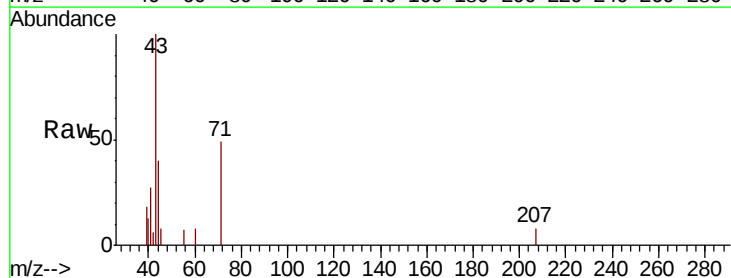
Instrument :
 MSVOA_U
 ClientSampleId :

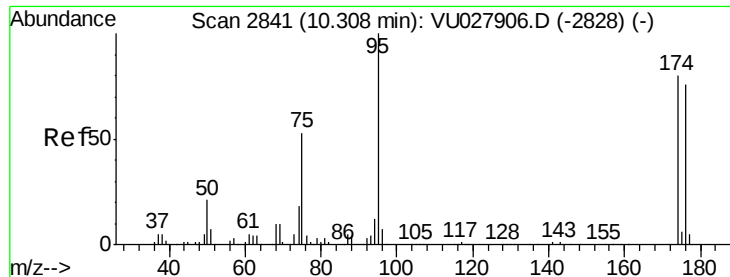
Tot Ion: 75 Resp: 1516
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 40.6 42.6 64.0#



#59
 2-Hexanone
 Concen: 0.365 ug/l
 RT: 8.31 min Scan# 2221
 Delta R.T. -0.05 min
 Lab File: VU028099.D
 Acq: 13 Nov 2018 18:06

Tgt Ion: 43 Resp: 2214
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.8 77.3#

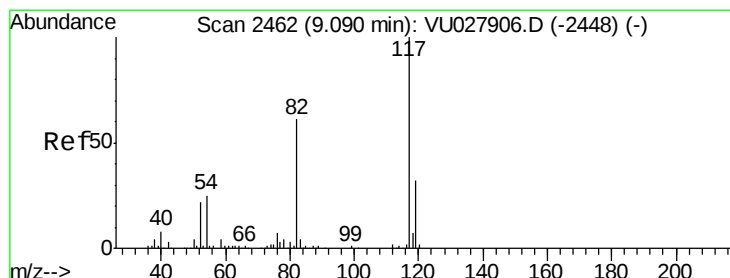
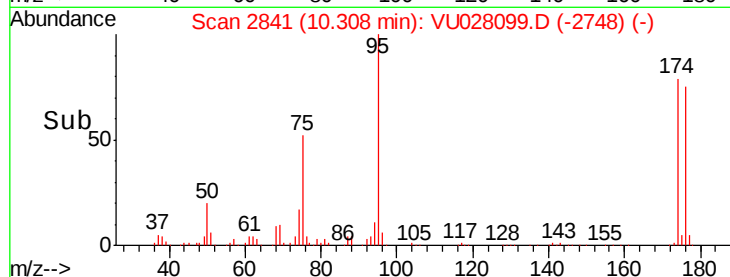
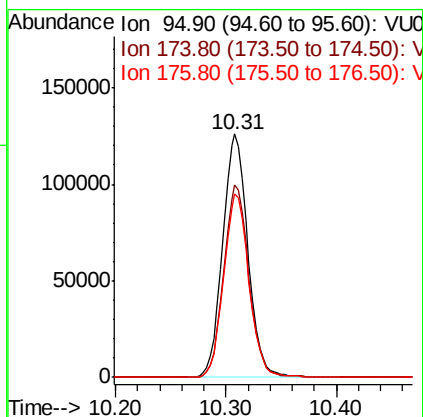
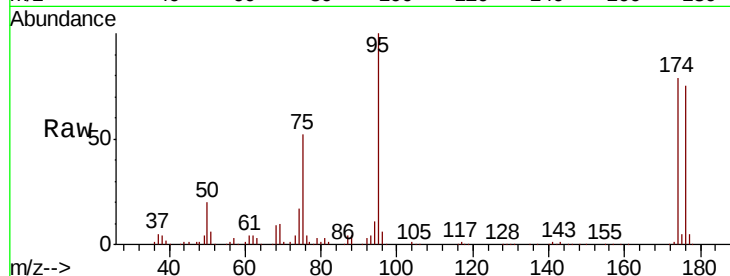




#62
4-Bromofluorobenzene
Concen: 45.581 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

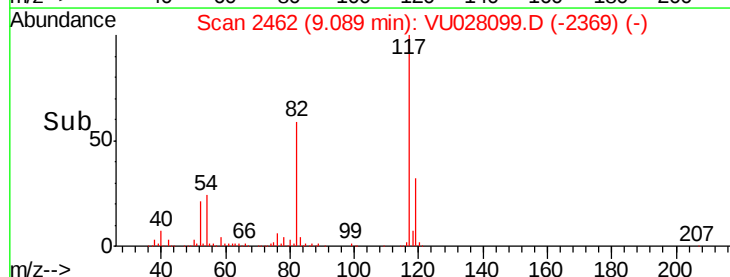
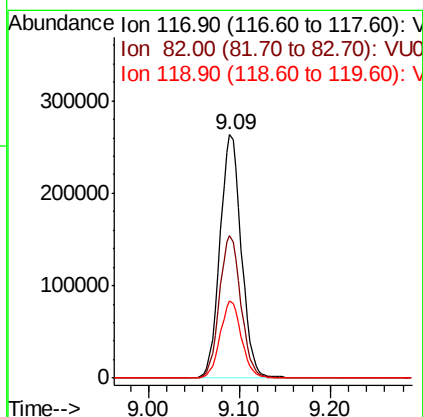
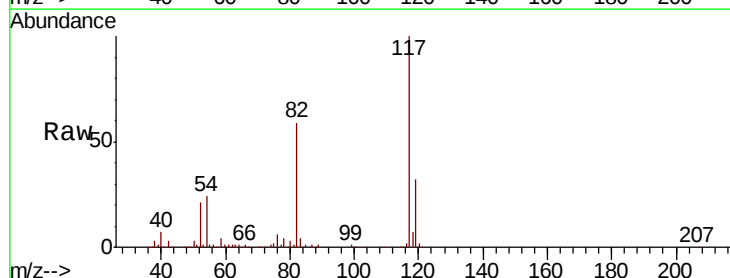
Instrument :
MSVOA_U
ClientSampleId :

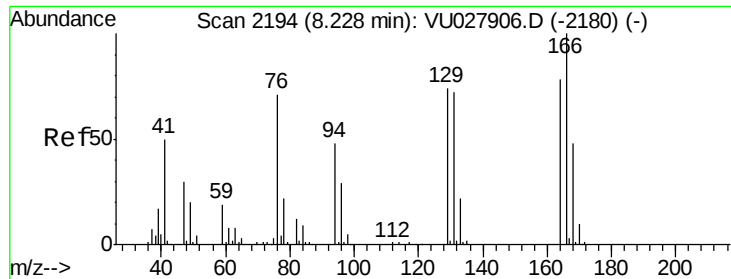
Tot Ion	95	Resp	199991
Ion Ratio	Lower	Upper	
95	100		
174	78.8	0.0	156.4
176	75.5	0.0	150.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

Tgt Ion	117	Resp	430360
Ion Ratio	Lower	Upper	
117	100		
82	58.6	48.6	73.0
119	31.6	25.8	38.8

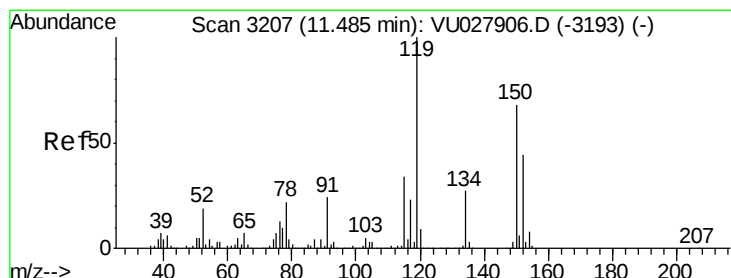
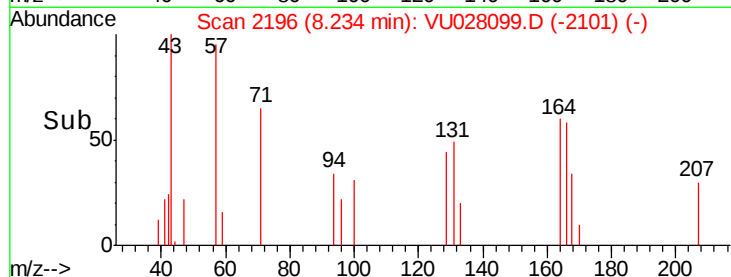
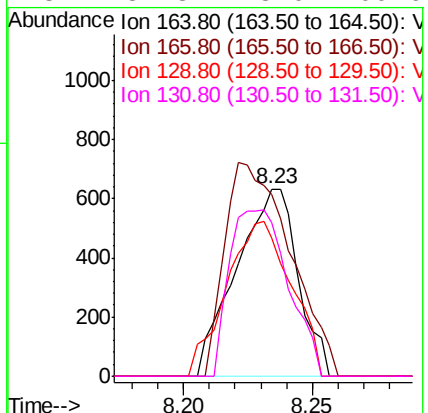
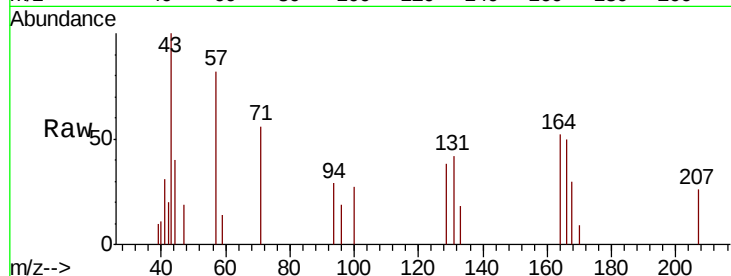




#64
Tetrachloroethene
Concen: 0.377 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

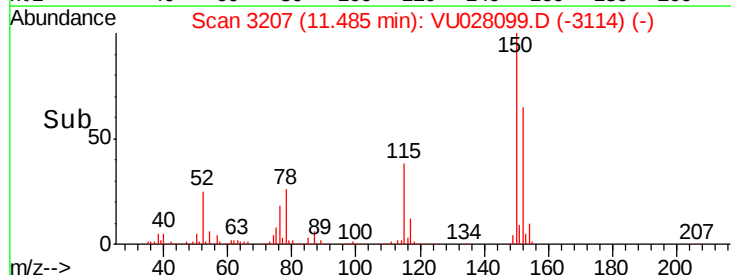
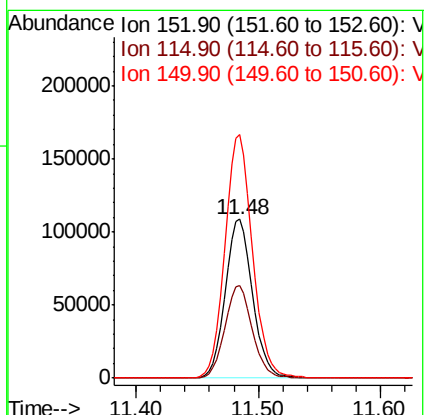
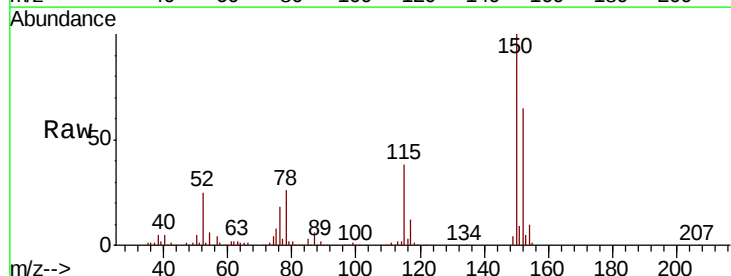
Instrument :
MSVOA_U
ClientSampled :

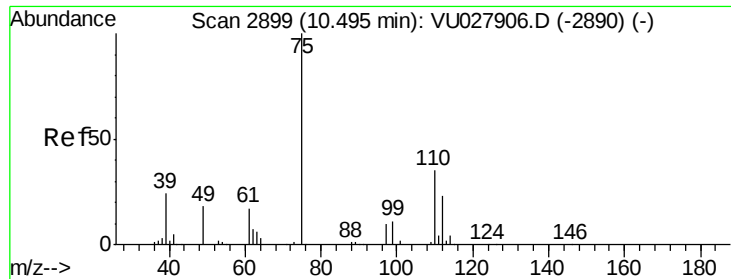
Tot Ion:164 Resp: 1052
Ion Ratio Lower Upper
164 100
166 97.2 102.1 153.1#
129 73.7 75.9 113.9#
131 82.3 73.0 109.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

Tgt Ion:152 Resp: 171014
Ion Ratio Lower Upper
152 100
115 58.5 43.0 129.0
150 154.0 0.0 349.4





#76

1,2,3-Trichloropropane

Concen: 22.282 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

Instrument :

MSVOA_U

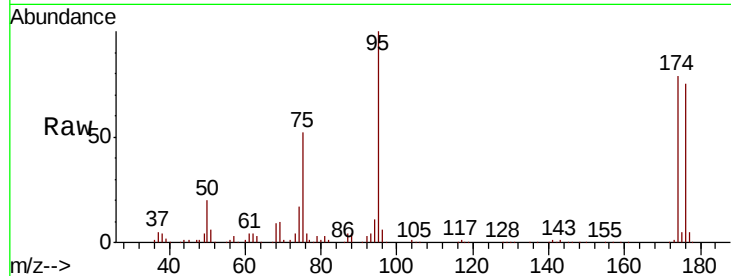
ClientSampleId :

Tot Ion: 75 Resp: 104229

Ion Ratio Lower Upper

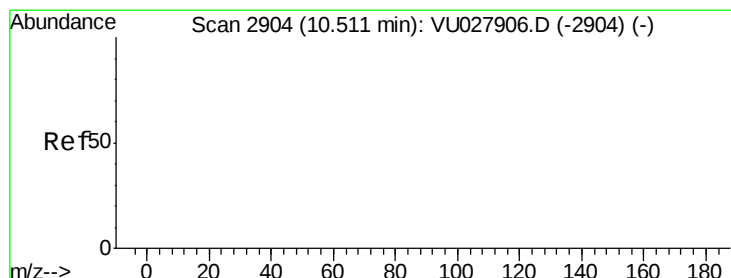
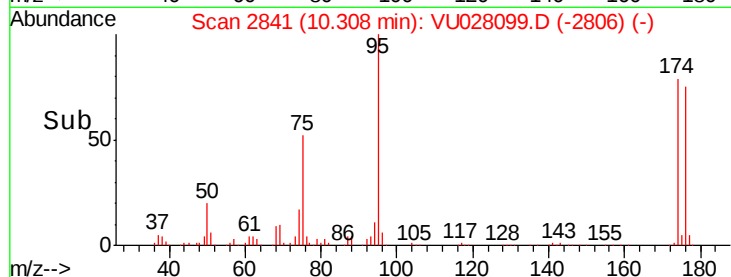
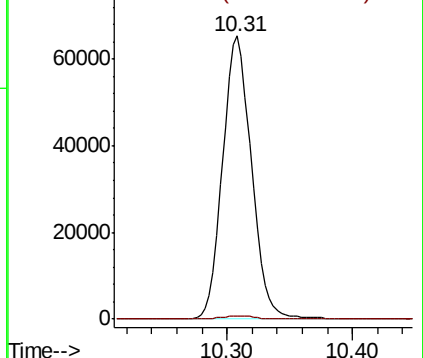
75 100

77 1.3 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: 55.604 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028099.D

Acq: 13 Nov 2018 18:06

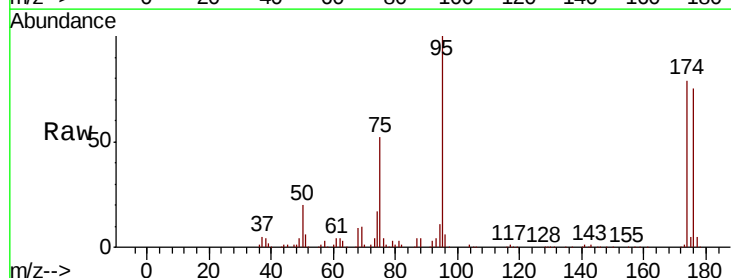
Tgt Ion: 75 Resp: 104229

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

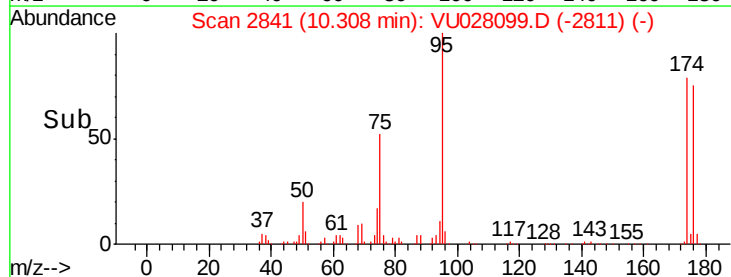
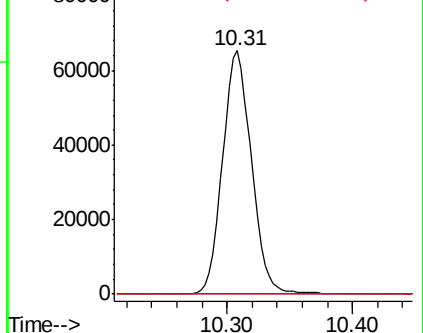
89 0.0 0.0 0.0

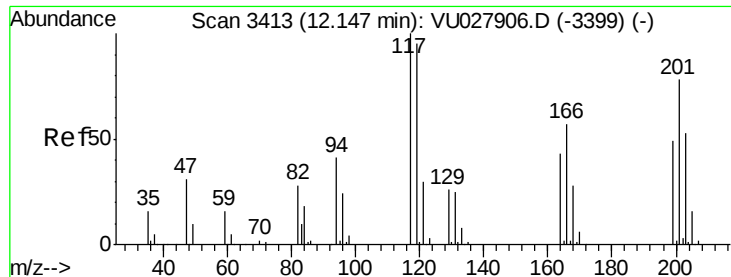


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

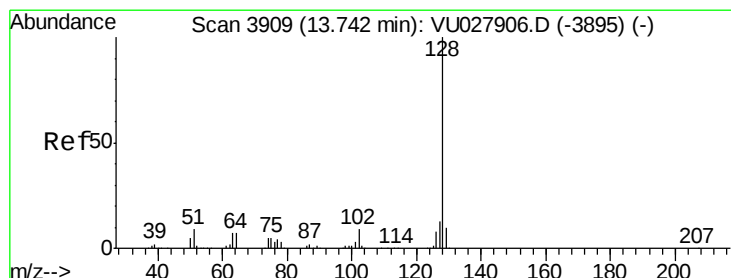
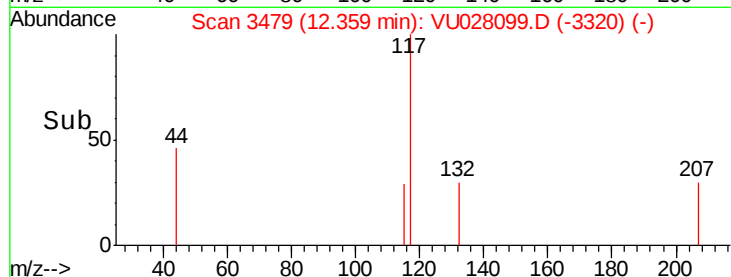
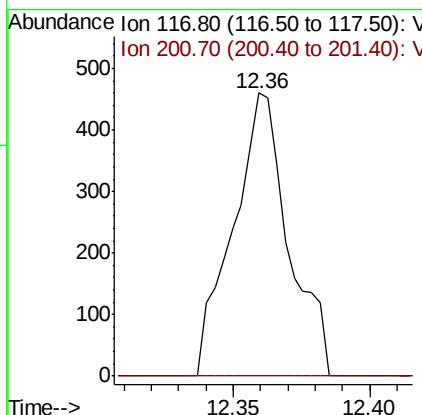
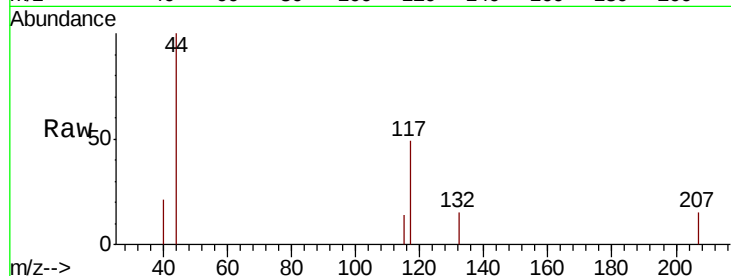




#90
Hexachloroethane
Concen: 0.327 ug/l
RT: 12.36 min Scan# 3479
Delta R.T. 0.21 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 649
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#



#95
Naphthalene
Concen: 1.419 ug/l
RT: 13.75 min Scan# 3911
Delta R.T. 0.01 min
Lab File: VU028099.D
Acq: 13 Nov 2018 18:06

Tgt Ion:128 Resp: 22382
Ion Ratio Lower Upper
128 100
127 12.4 10.4 15.6
129 8.7 8.3 12.5

