

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024550.D
 Acq On : 14 Jun 2018 19:12
 Operator : MD/SY
 Sample : J3448-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:43:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	184443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311373	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	297157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	175690	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	136985	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
35) Dibromofluoromethane	4.89	113	125117	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
50) Toluene-d8	7.57	98	459168	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	10.31	95	177389	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	

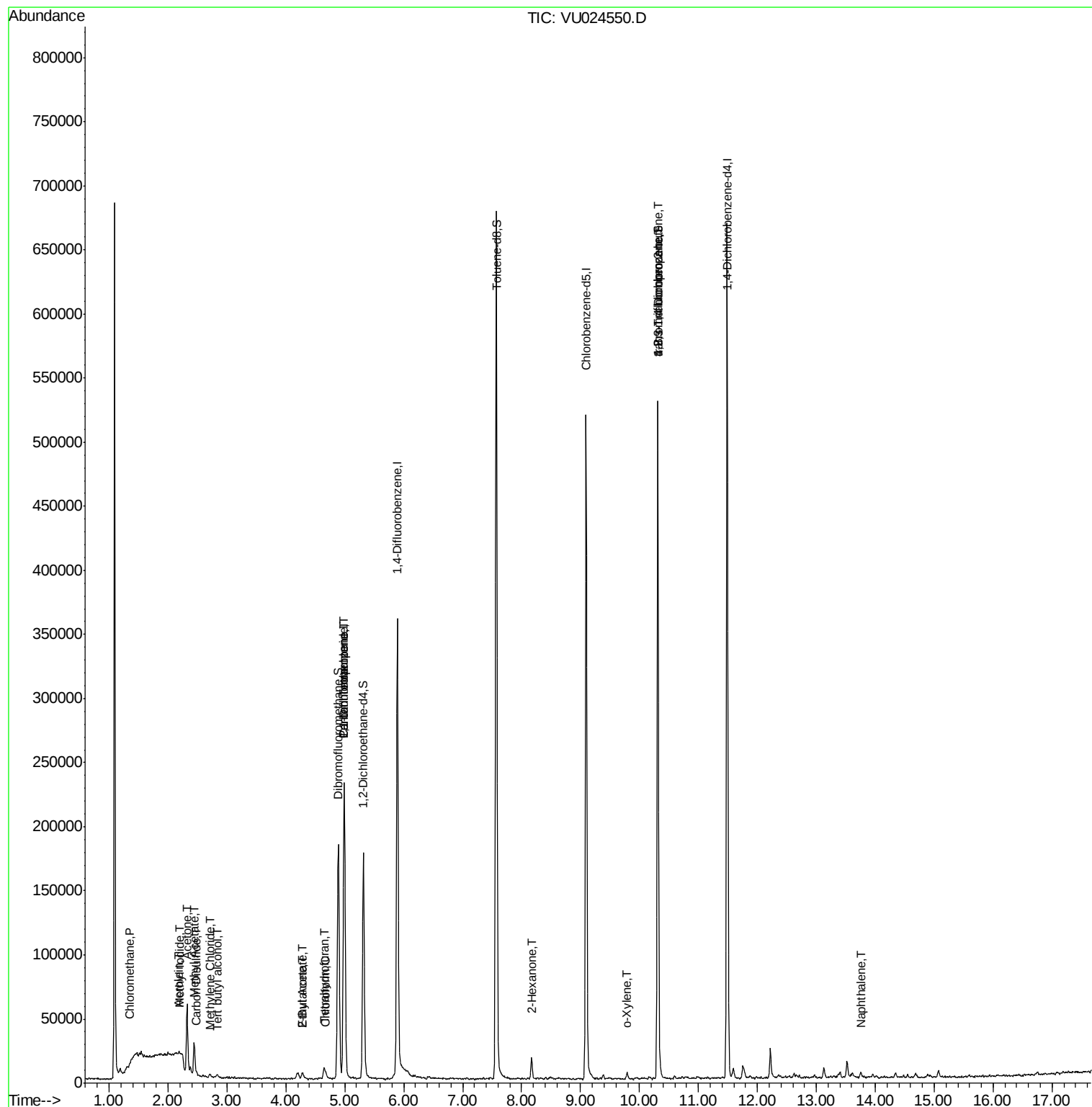
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	521	0.221	ug/l #	42
6) Chloroethane	1.70	64	272	Below Cal	#	64
8) Diethyl Ether	2.11	74	109	Below Cal	#	48
10) Methyl Iodide	2.20	142	21	5.298	ug/l #	1
11) Tert butyl alcohol	2.84	59	1908	2.605	ug/l	98
13) Acrolein	2.18	56	177	0.460	ug/l #	1
16) Acetone	2.32	43	54757	33.846	ug/l	97
17) Carbon Disulfide	2.48	76	1511	0.225	ug/l #	92
18) Methyl Acetate	2.44	43	4809	1.387	ug/l #	53
20) Methylene Chloride	2.71	84	1292	0.509	ug/l #	86
25) 2-Butanone	4.28	43	7399	3.405	ug/l	94
29) Tetrahydrofuran	4.65	42	6337	4.709	ug/l #	83
30) Chloroform	4.68	83	2505	0.557	ug/l	99
31) Cyclohexane	4.98	56	3615	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	12711	3.474	ug/l #	52
37) Ethyl Acetate	4.28	43	7399	1.855	ug/l #	72
38) Carbon Tetrachloride	4.99	117	17147	4.262	ug/l #	16
59) 2-Hexanone	8.17	43	12217	3.455	ug/l	74
69) o-Xylene	9.79	106	1466	0.290	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	87220	22.549	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	87220	52.187	ug/l #	100
95) Naphthalene	13.76	128	2021	0.834	ug/l #	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

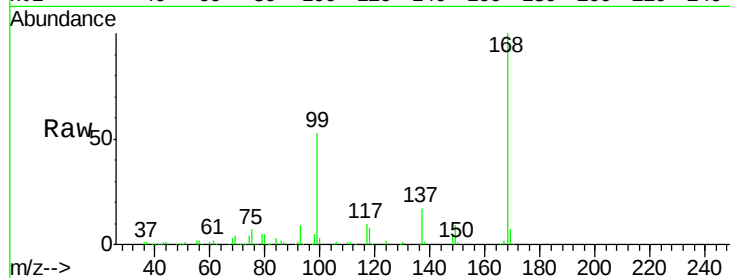
ClientSampleId :

Tot Ion:168 Resp: 184443

Ion Ratio Lower Upper

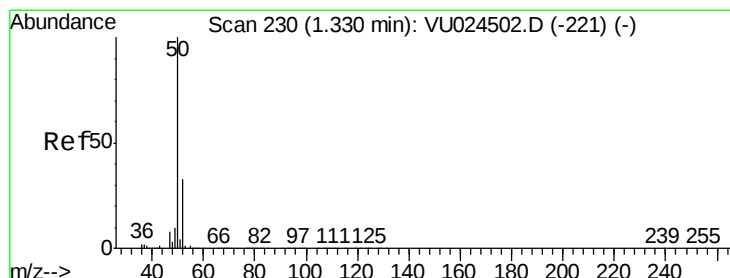
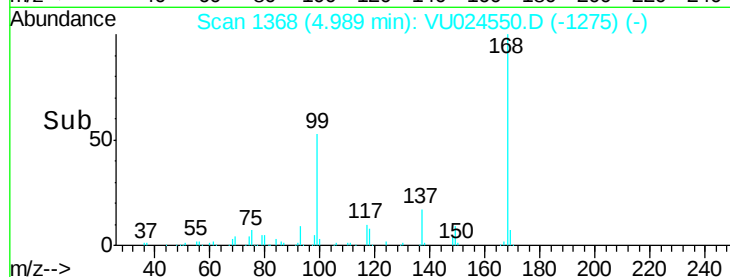
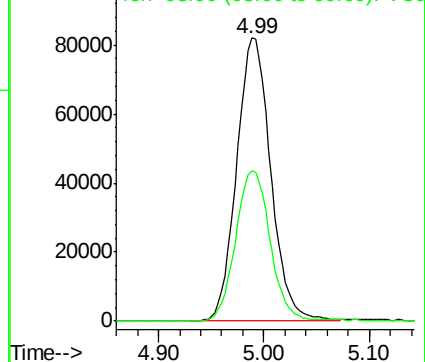
168 100

99 53.1 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024550.D

Ion 98.90 (98.60 to 99.60): VU024550.D



#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.34 min Scan# 232

Delta R.T. 0.01 min

Lab File: VU024550.D

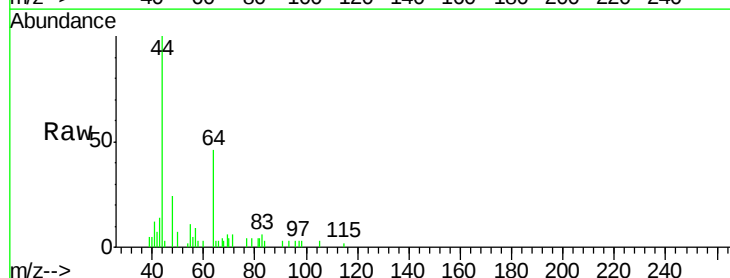
Acq: 14 Jun 2018 19:12

Tgt Ion: 50 Resp: 521

Ion Ratio Lower Upper

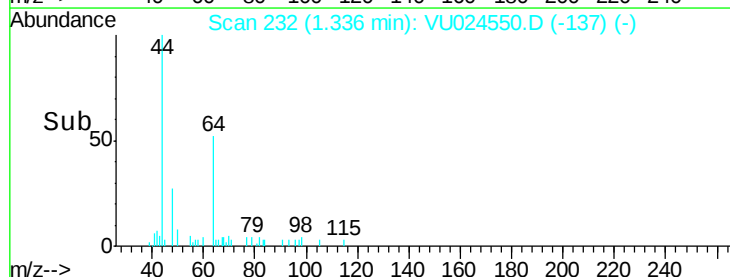
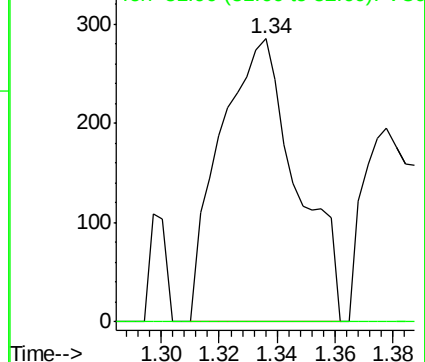
50 100

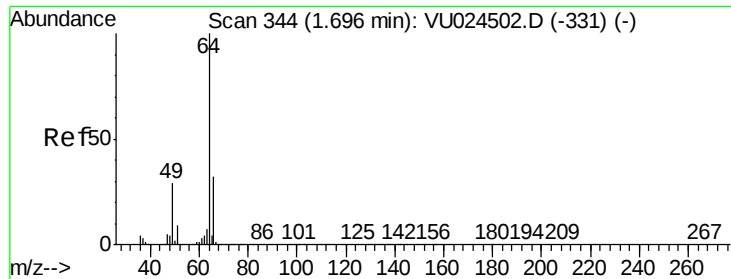
52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024550.D

Ion 51.90 (51.60 to 52.60): VU024550.D





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

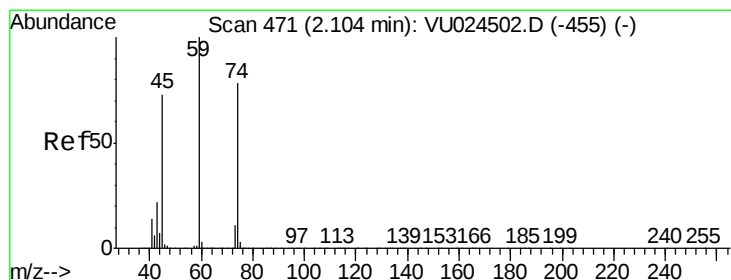
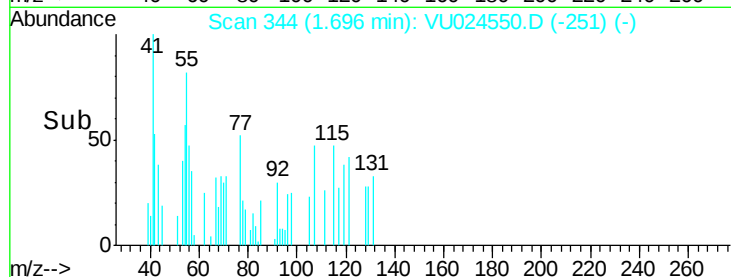
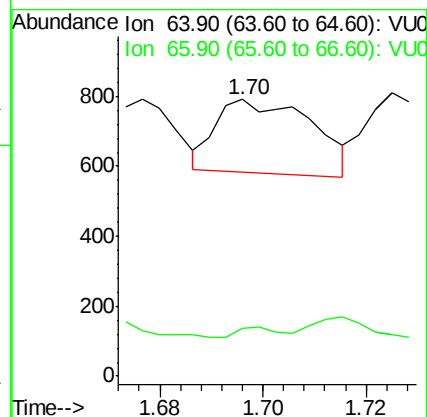
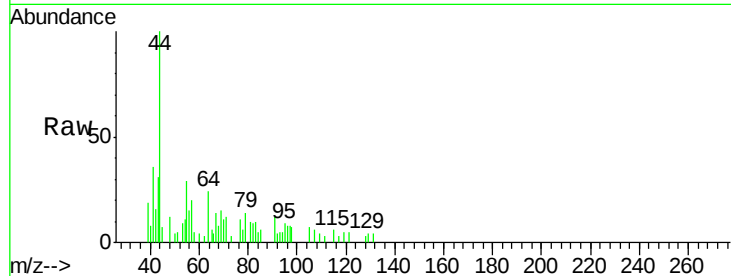
ClientSampleId :

Tot Ion: 64 Resp: 272

Ion Ratio Lower Upper

64 100

66 11.8 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU024550.D

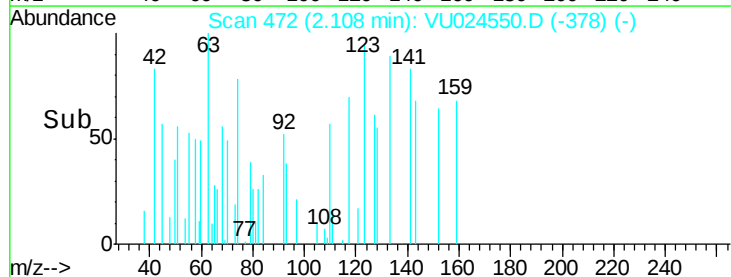
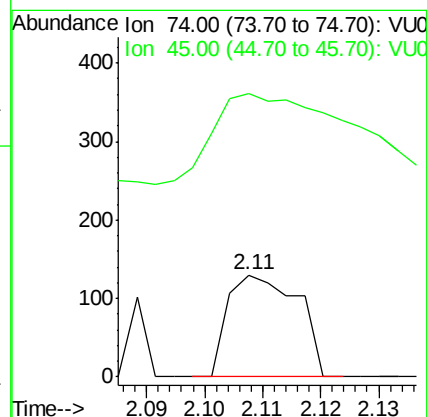
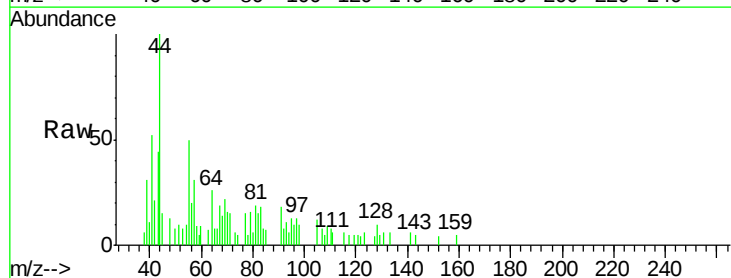
Acq: 14 Jun 2018 19:12

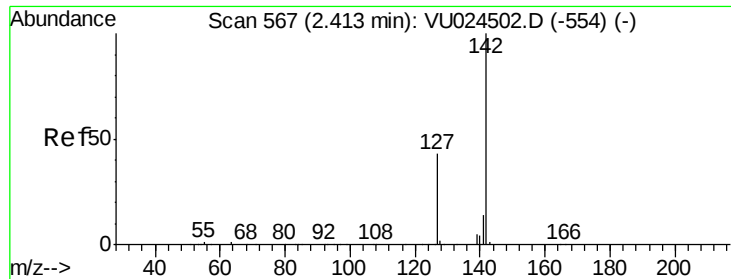
Tgt Ion: 74 Resp: 109

Ion Ratio Lower Upper

74 100

45 165.1 55.0 165.0#

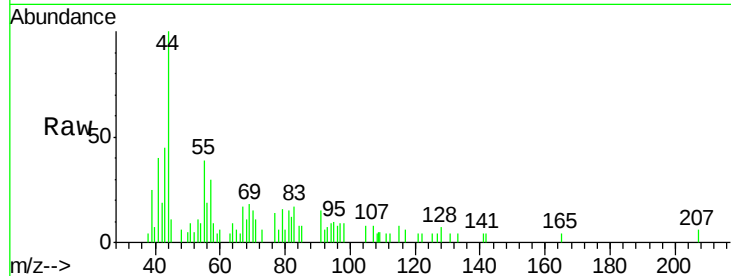




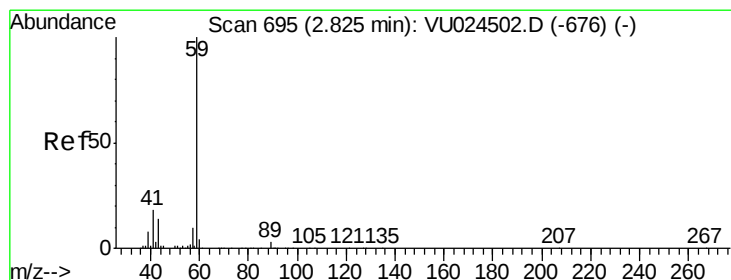
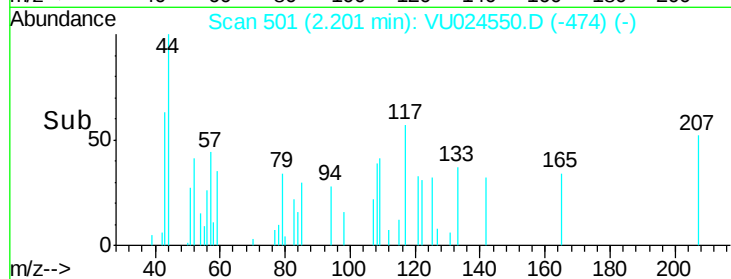
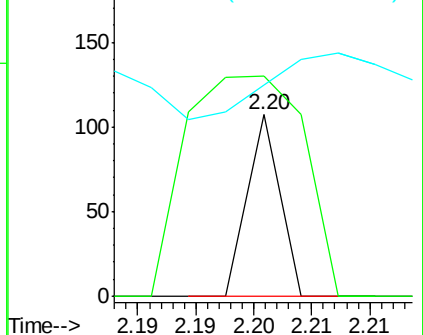
#10
Methyl Iodide
Concen: 5.298 ug/l
RT: 2.20 min Scan# 501
Delta R.T. -0.21 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 438.1 35.6 53.4#
141 723.8 11.7 17.5#

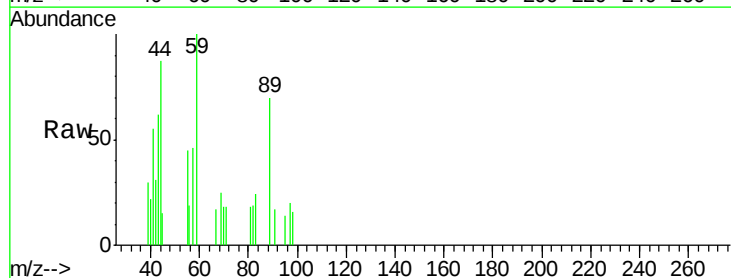


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

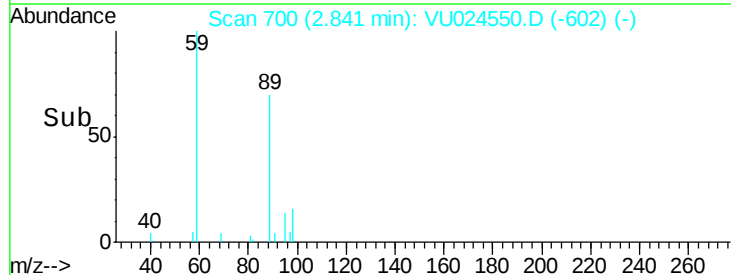
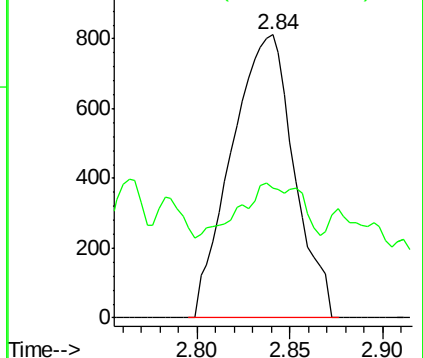


#11
Tert butyl alcohol
Concen: 2.605 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion: 59 Resp: 1908
Ion Ratio Lower Upper
59 100
57 11.4 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

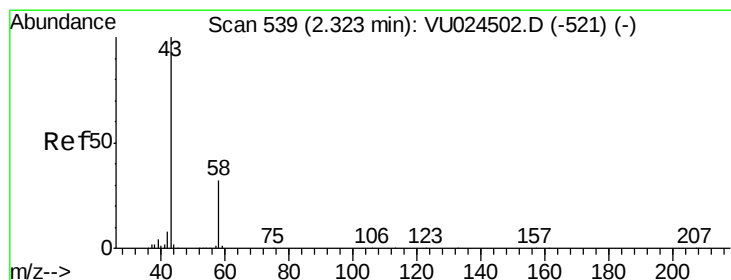
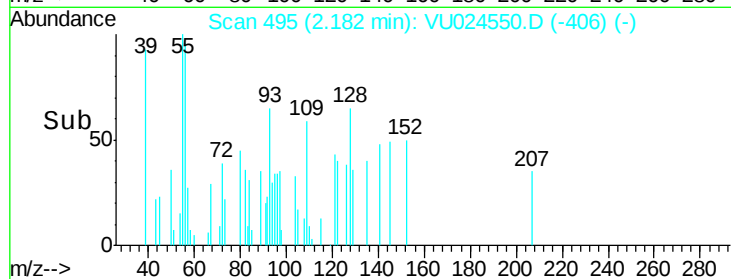
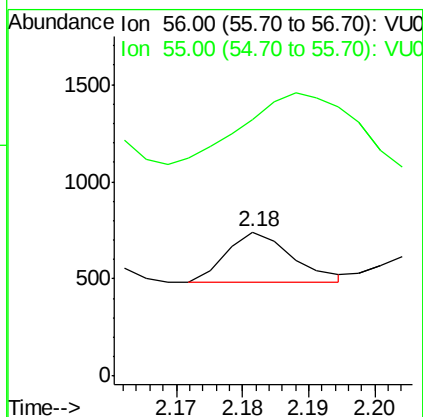
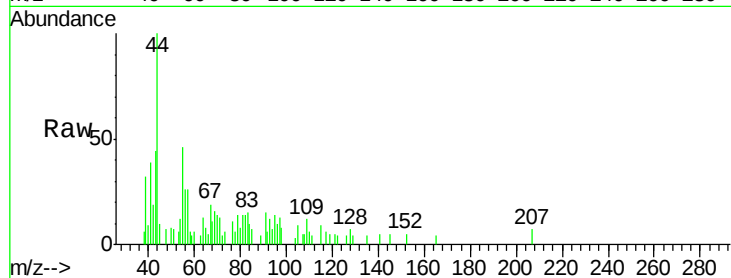




#13
Acrolein
Concen: 0.460 ug/l
RT: 2.18 min Scan# 495
Delta R.T. -0.01 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

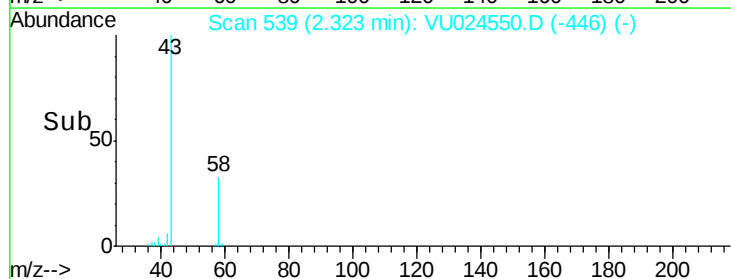
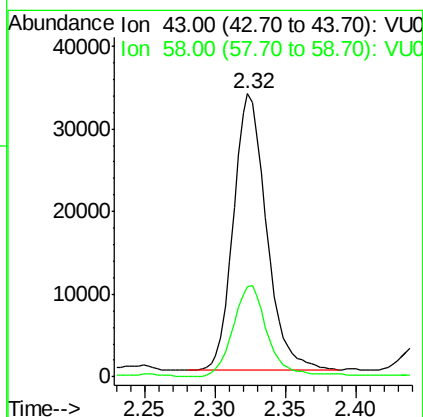
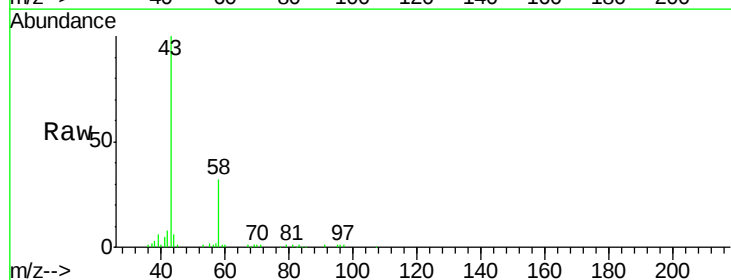
Instrument :
MSVOA_U
ClientSampled :

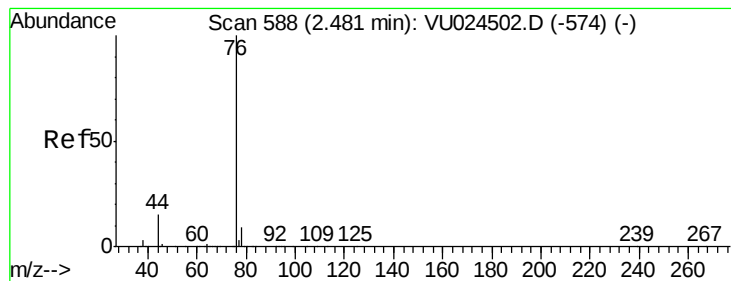
Tot Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 232.2 58.4 87.6#



#16
Acetone
Concen: 33.846 ug/l
RT: 2.32 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion: 43 Resp: 54757
Ion Ratio Lower Upper
43 100
58 32.2 24.4 36.6





#17

Carbon Disulfide

Concen: 0.225 ug/l

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

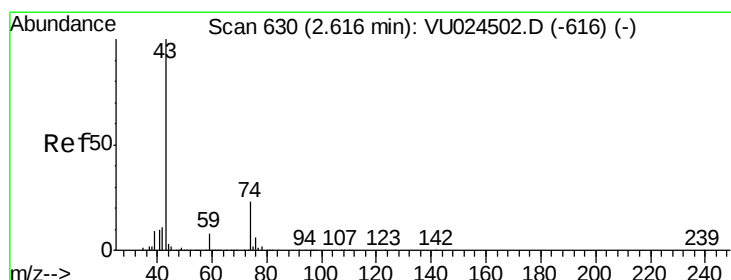
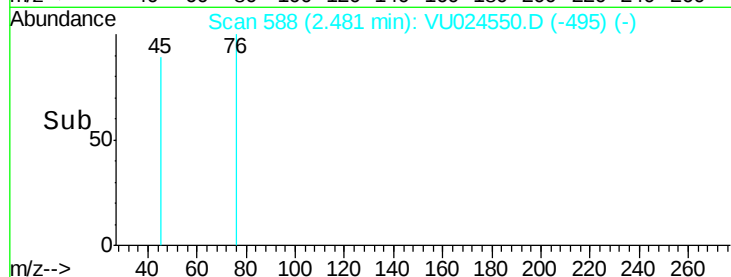
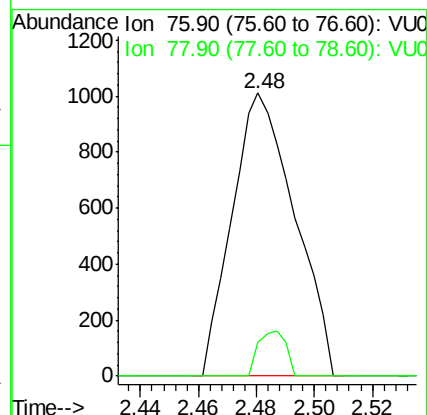
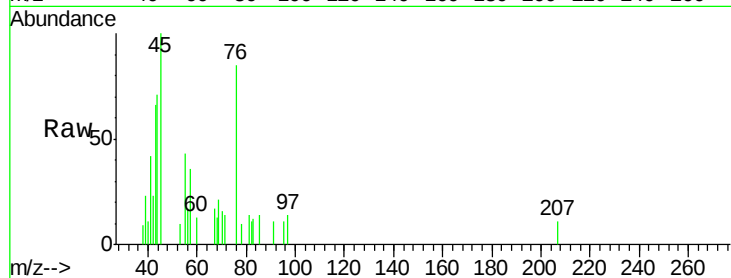
ClientSampleId :

Tot Ion: 76 Resp: 1511

Ion Ratio Lower Upper

76 100

78 11.8 7.1 10.7#



#18

Methyl Acetate

Concen: 1.387 ug/l

RT: 2.44 min Scan# 576

Delta R.T. -0.17 min

Lab File: VU024550.D

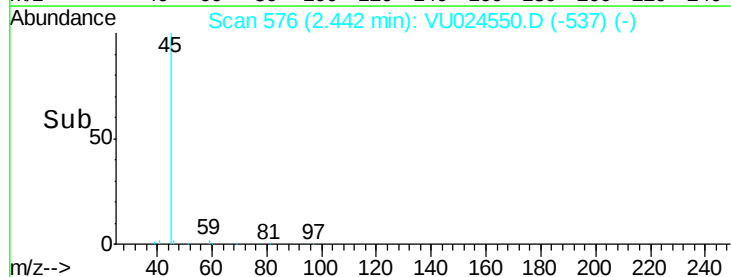
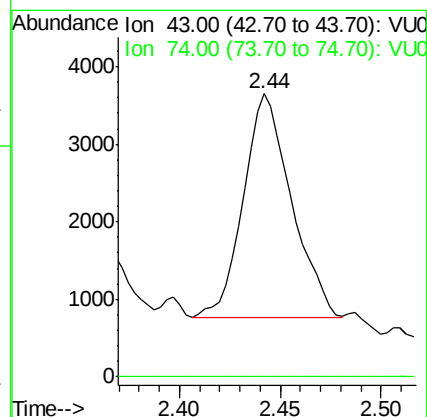
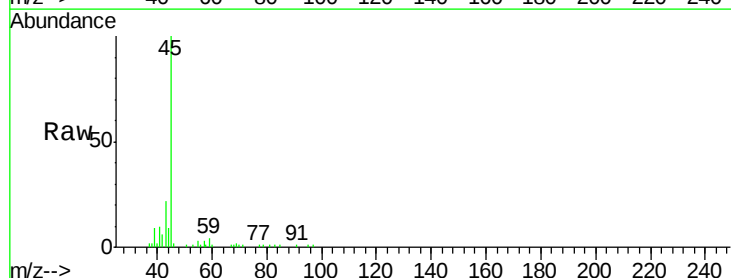
Acq: 14 Jun 2018 19:12

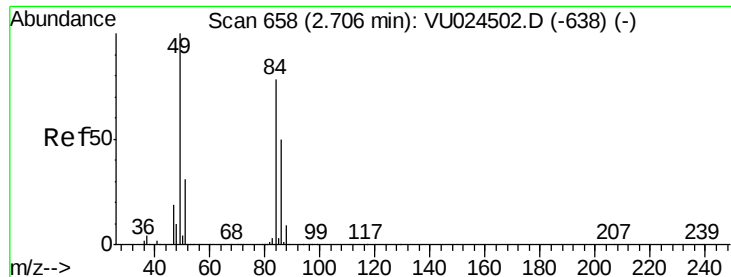
Tgt Ion: 43 Resp: 4809

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#

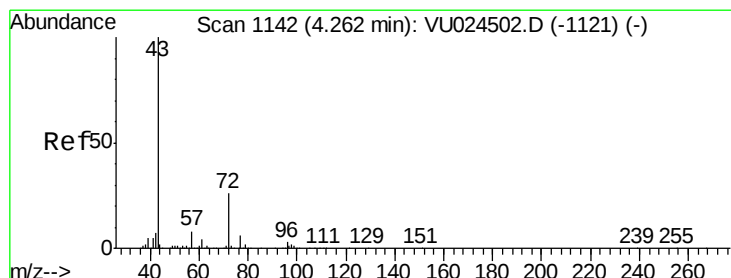
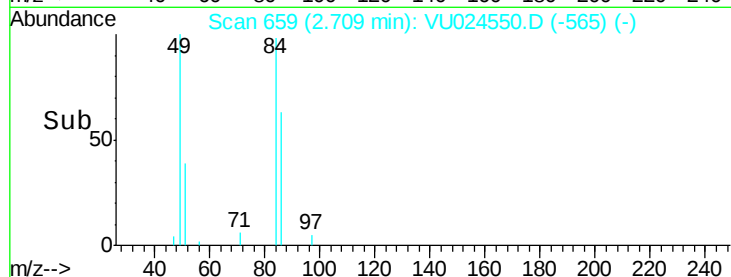
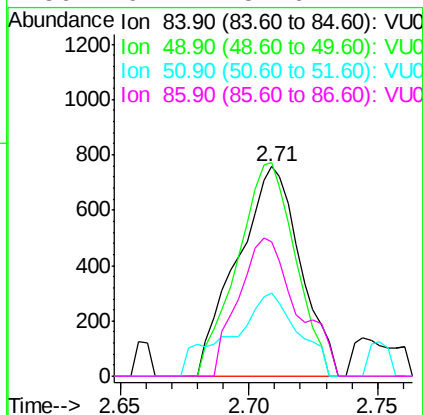
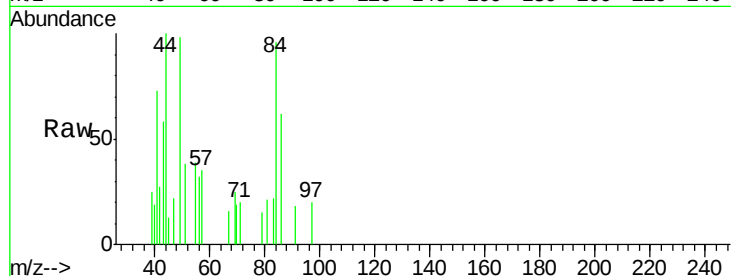




#20
Methvlene Chloride
Concen: 0.509 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

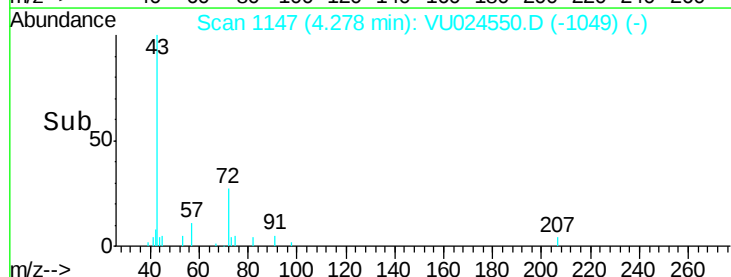
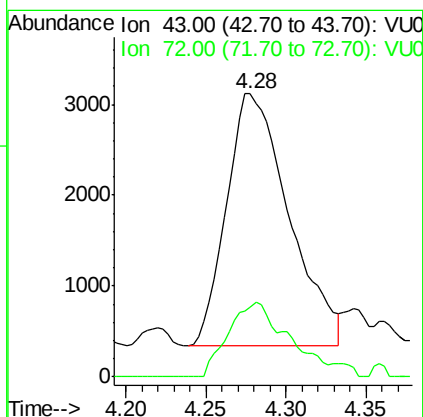
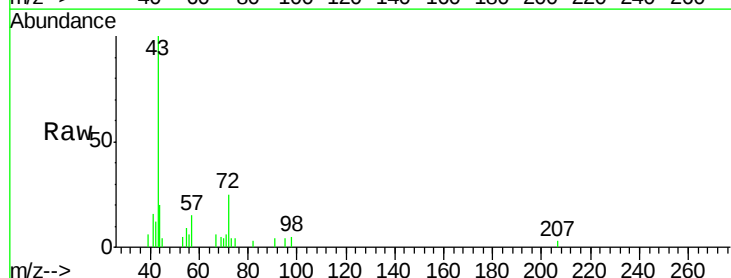
Instrument :
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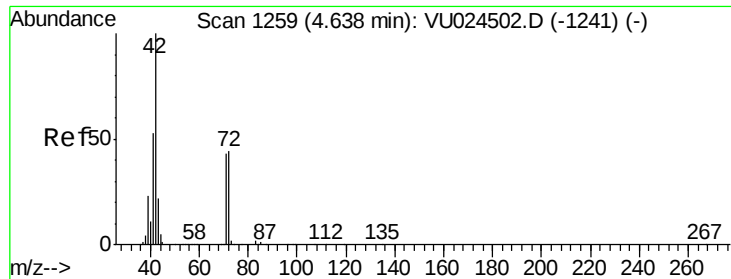
Tot Ion: 84 Resp: 1292
Ion Ratio Lower Upper
84 100
49 101.8 103.8 155.8#
51 39.6 32.0 48.0
86 64.2 51.6 77.4



#25
2-Butanone
Concen: 3.405 ug/l
RT: 4.28 min Scan# 1147
Delta R.T. 0.02 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion: 43 Resp: 7399
Ion Ratio Lower Upper
43 100
72 27.6 19.6 29.4

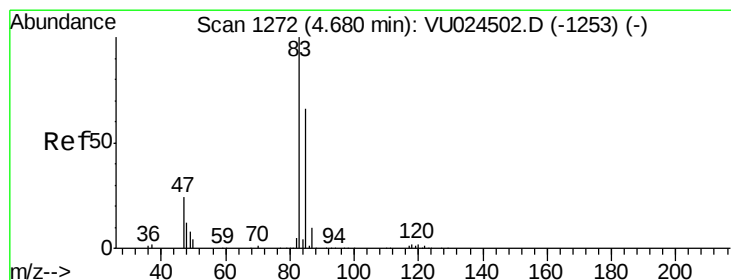
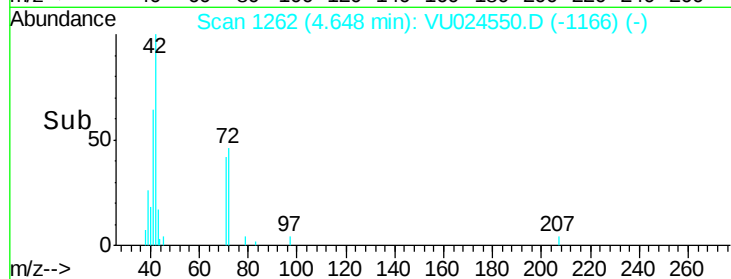
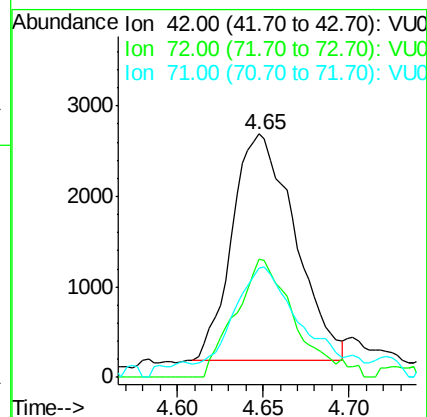
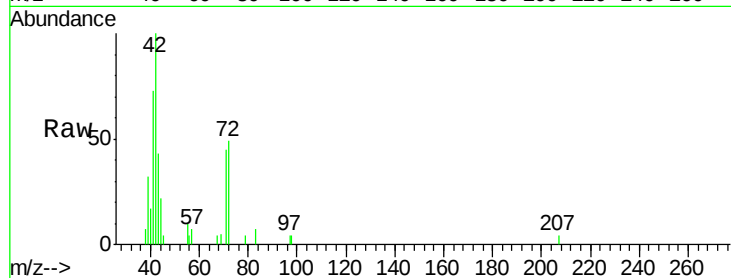




#29
Tetrahydrofuran
Concen: 4.709 ug/l
RT: 4.65 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

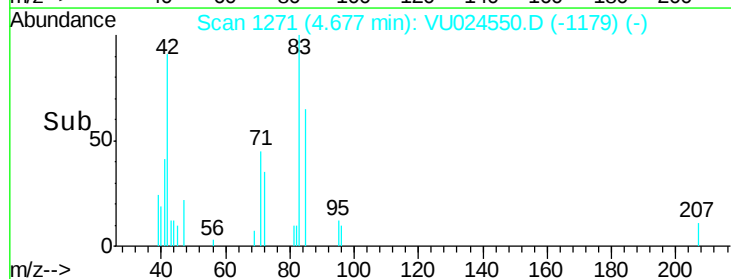
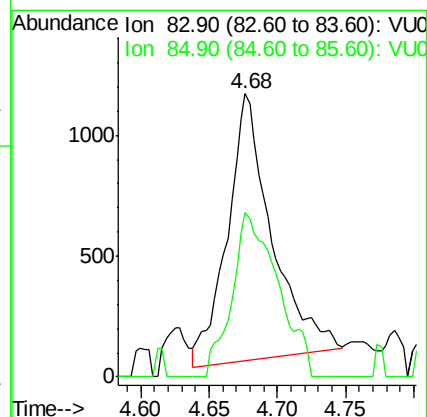
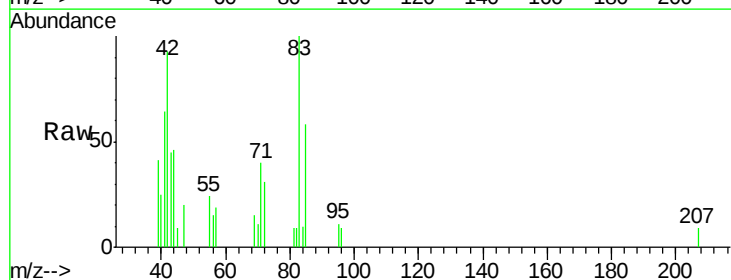
Instrument :
MSVOA_U
ClientSampleId :

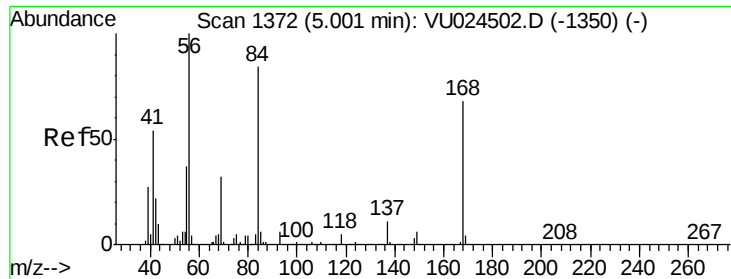
Tot Ion: 42 Resp: 6337
Ion Ratio Lower Upper
42 100
72 49.5 34.5 51.7
71 55.1 32.2 48.4#



#30
Chloroform
Concen: 0.557 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion: 83 Resp: 2505
Ion Ratio Lower Upper
83 100
85 64.4 52.4 78.6

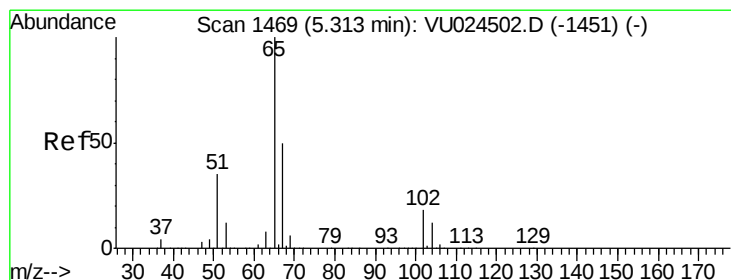
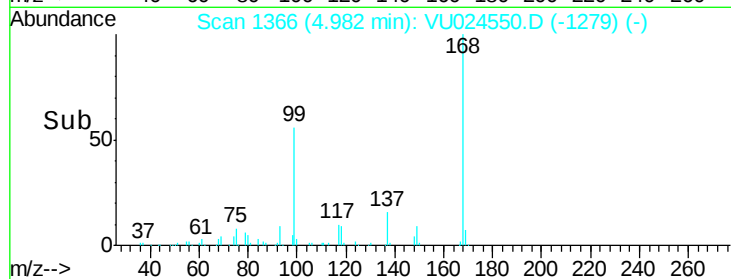
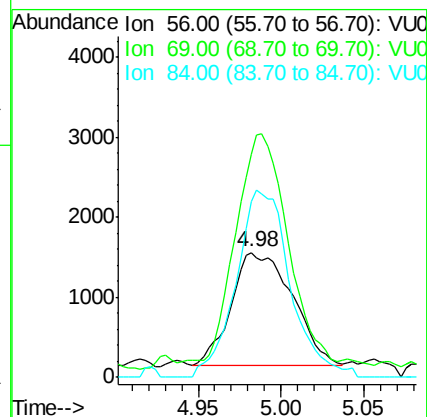
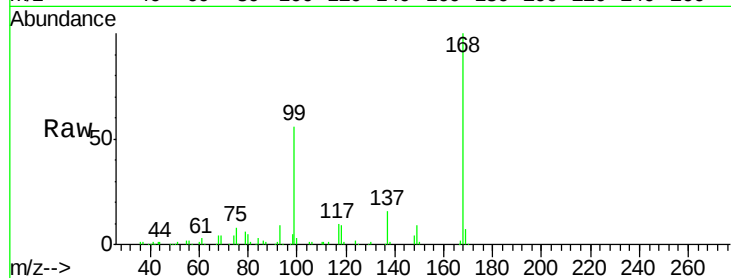




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

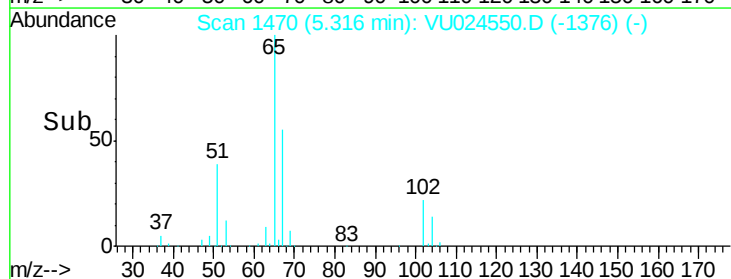
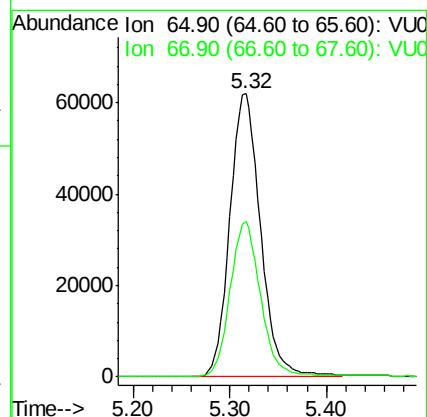
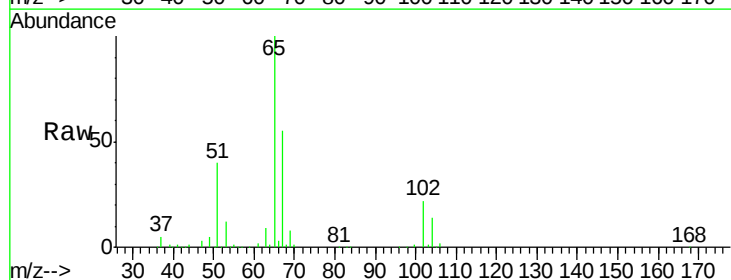
Instrument :
MSVOA_U
ClientSampleId :

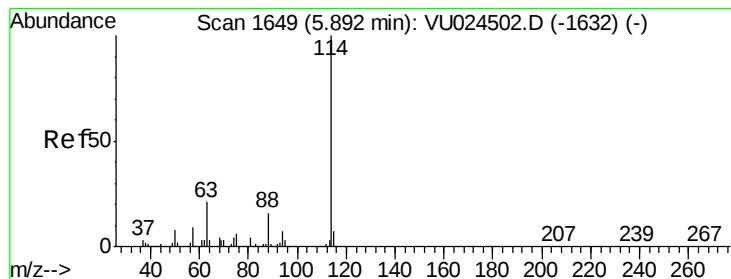
Tot Ion: 56 Resp: 3615
Ion Ratio Lower Upper
56 100
69 183.1 24.8 37.2#
84 155.9 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.494 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion: 65 Resp: 136985
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

ClientSampleId :

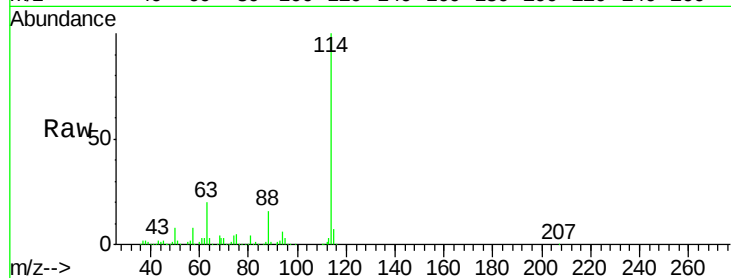
Tot Ion:114 Resp: 311373

Ion Ratio Lower Upper

114 100

63 20.1 0.0 45.4

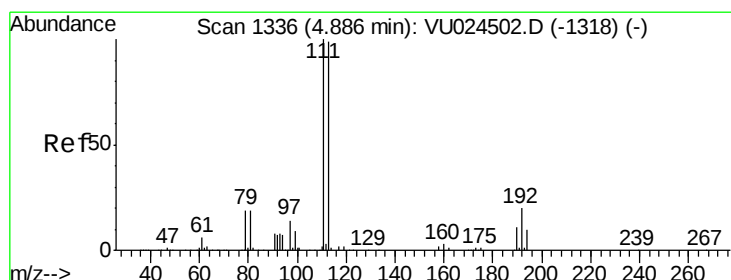
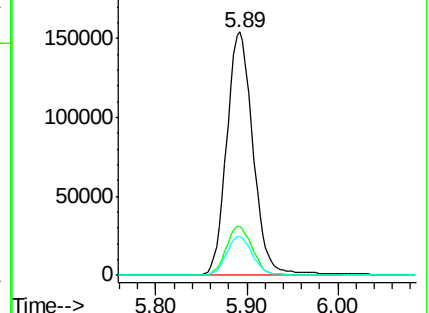
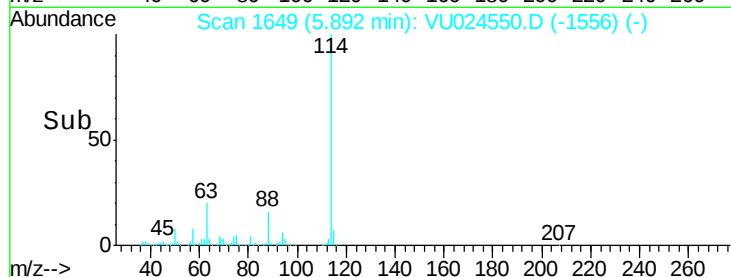
88 16.2 0.0 31.0



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: 48.417 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

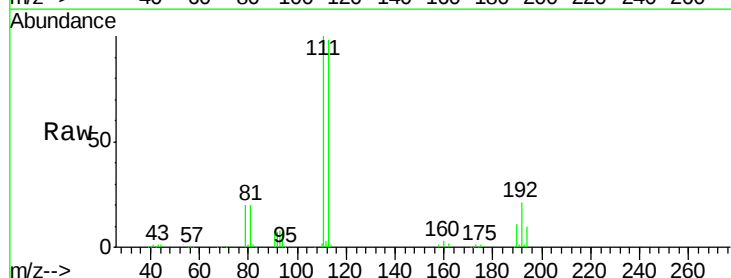
Tgt Ion:113 Resp: 125117

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

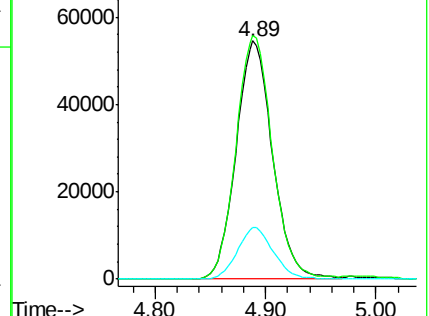
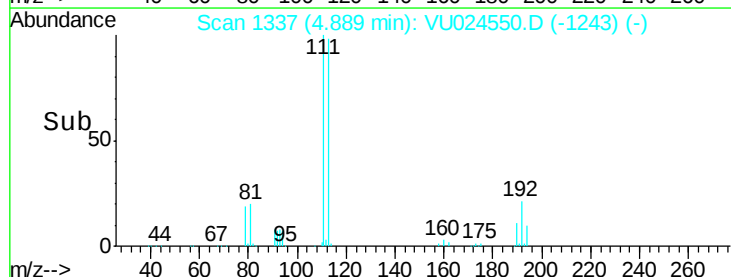
192 21.4 16.2 24.4

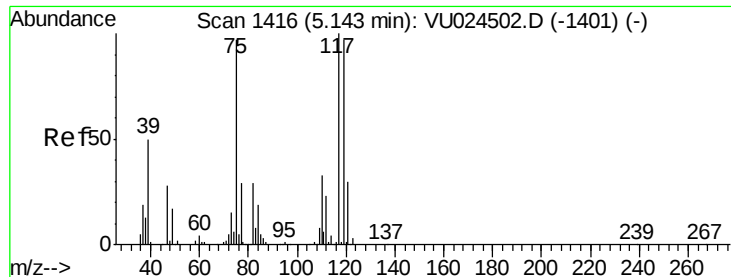


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.474 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

ClientSampleId :

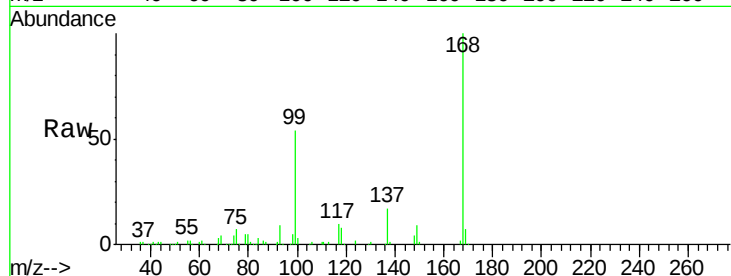
Tot Ion: 75 Resp: 12711

Ion Ratio Lower Upper

75 100

110 9.9 17.0 50.9#

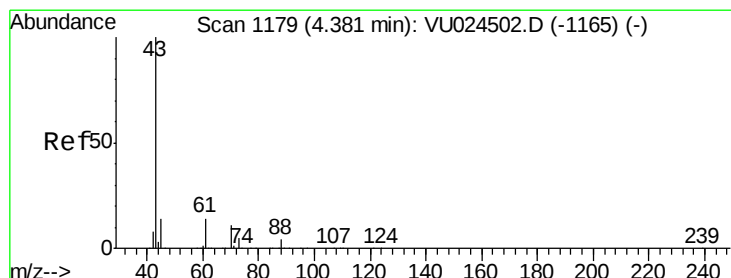
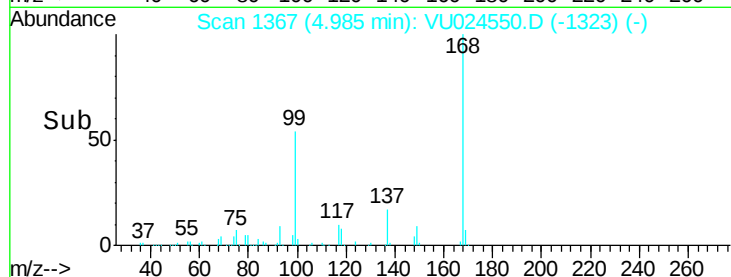
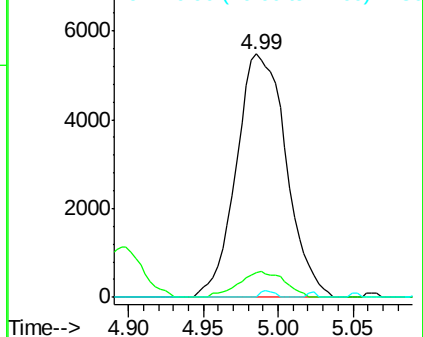
77 0.8 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 1.855 ug/l

RT: 4.28 min Scan# 1147

Delta R.T. -0.10 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

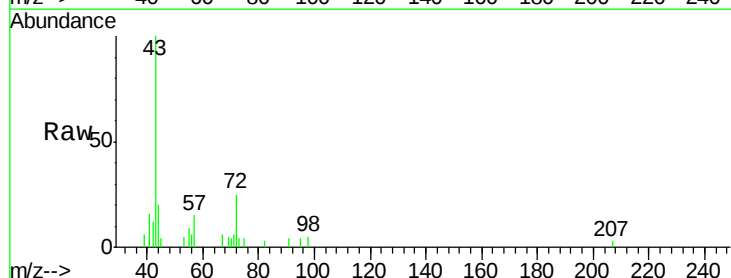
Tgt Ion: 43 Resp: 7399

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

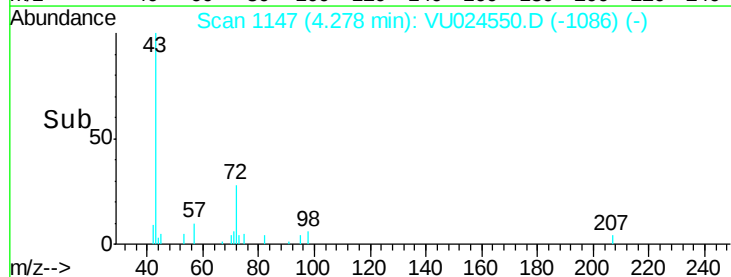
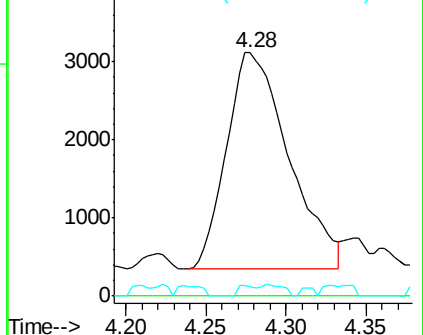
70 1.3 7.4 11.2#

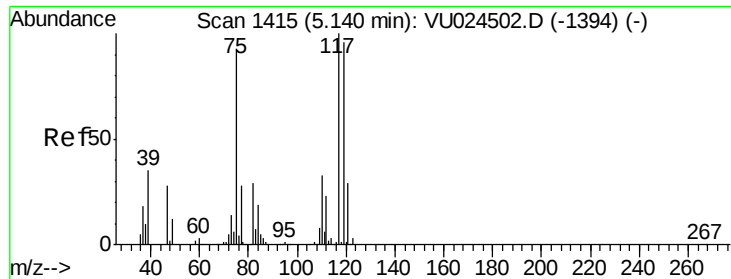


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 4.262 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

ClientSampled :

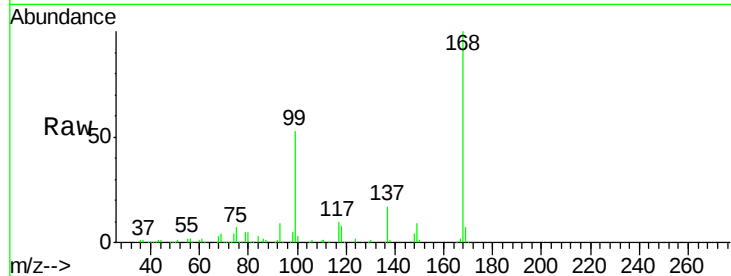
Tot Ion:117 Resp: 17147

Ion Ratio Lower Upper

117 100

119 4.1 76.1 114.1#

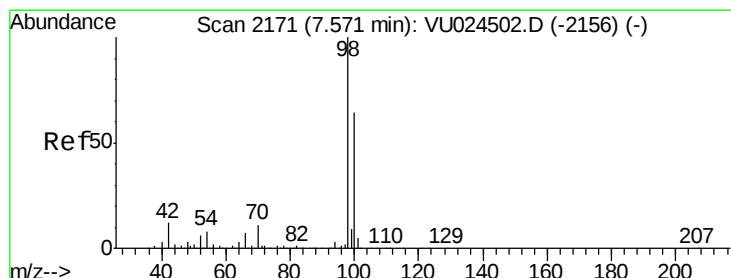
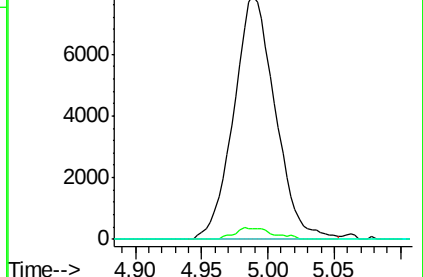
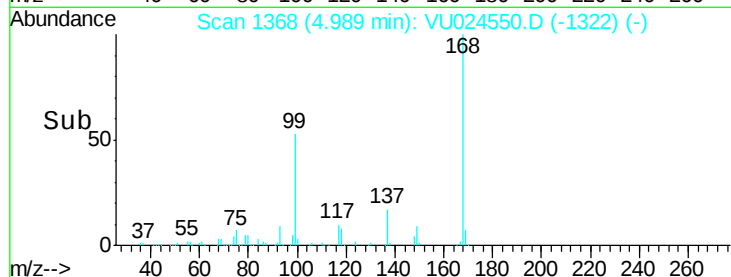
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.713 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024550.D

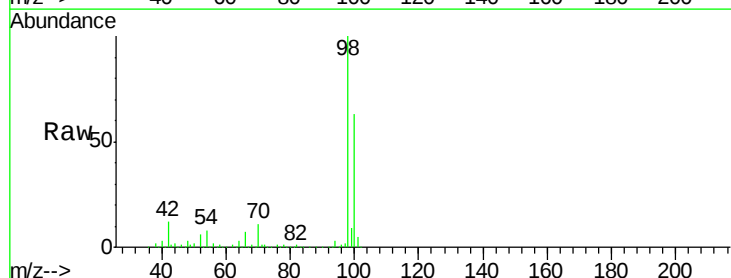
Acq: 14 Jun 2018 19:12

Tgt Ion: 98 Resp: 459168

Ion Ratio Lower Upper

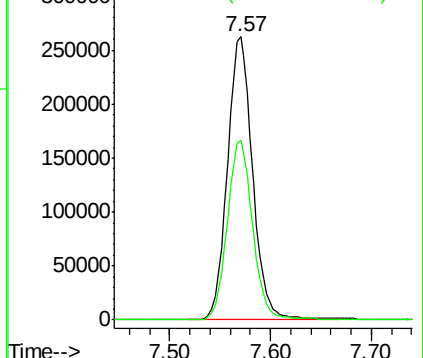
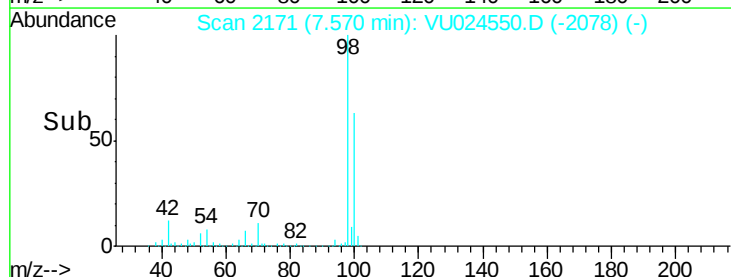
98 100

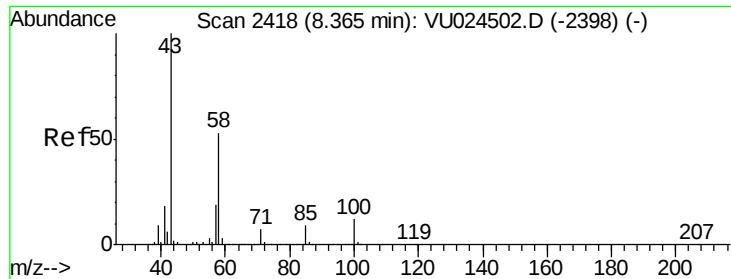
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

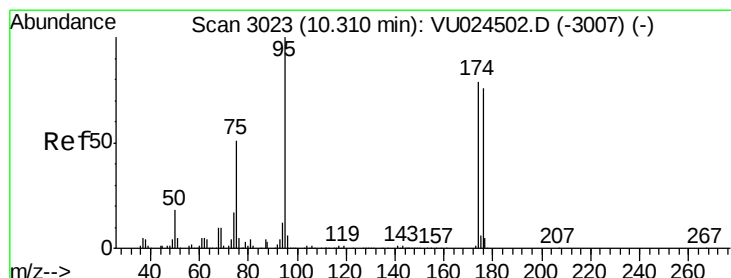
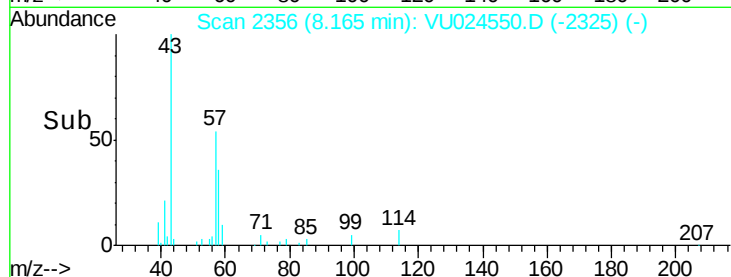
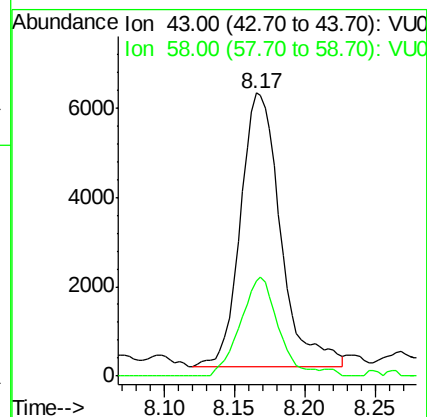
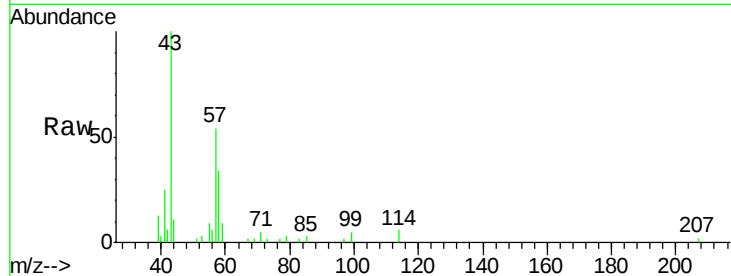




#59
2-Hexanone
Concen: 3.455 ug/l
RT: 8.17 min Scan# 2356
Delta R.T. -0.20 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

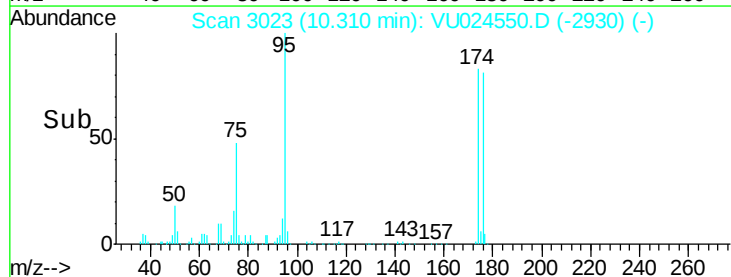
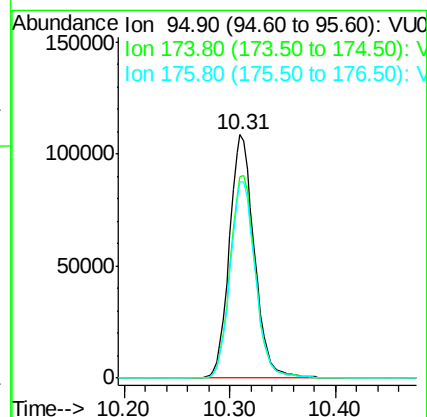
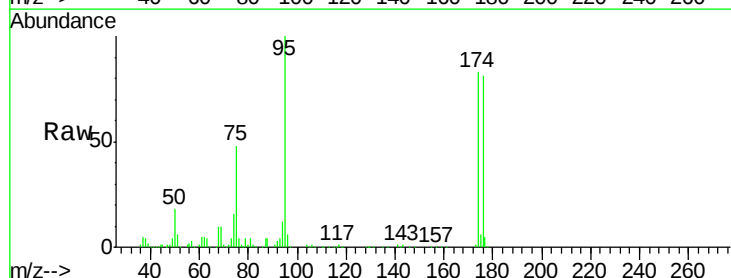
Instrument :
MSVOA_U
ClientSampleId :

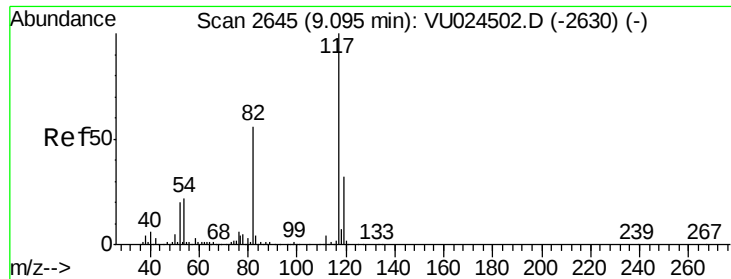
Tot Ion: 43 Resp: 12217
Ion Ratio Lower Upper
43 100
58 34.0 26.4 79.0



#62
4-Bromofluorobenzene
Concen: 47.399 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion: 95 Resp: 177389
Ion Ratio Lower Upper
95 100
174 84.3 0.0 165.8
176 81.6 0.0 159.4

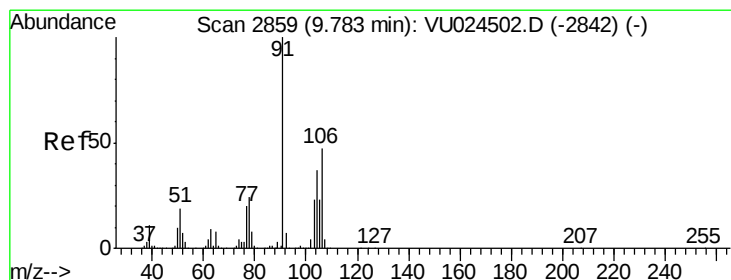
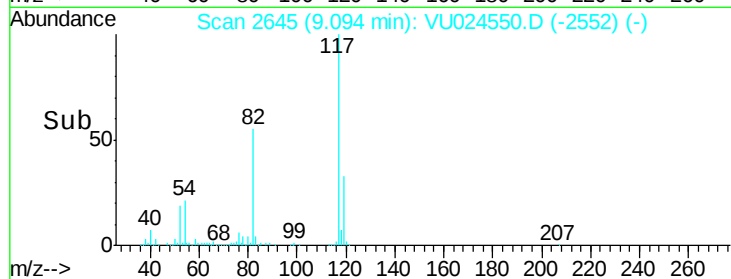
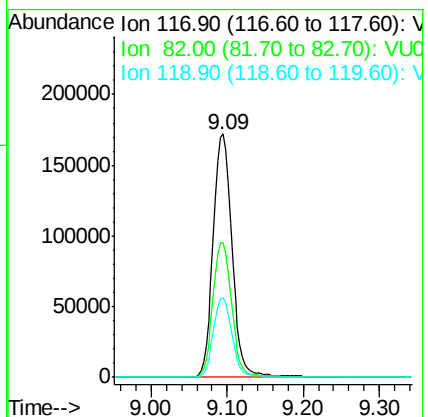
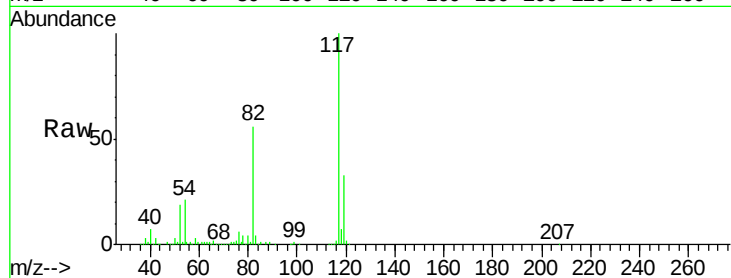




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

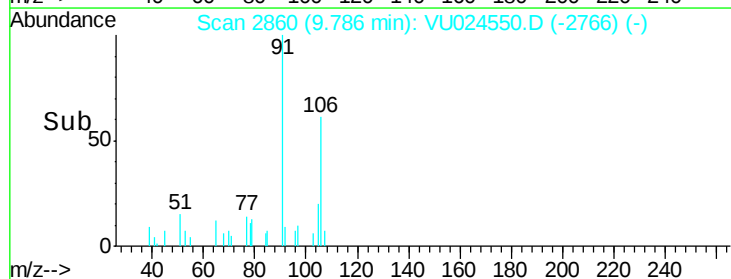
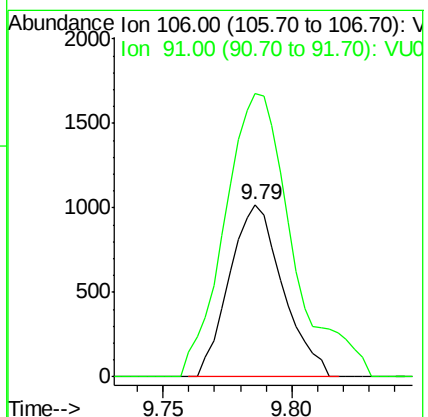
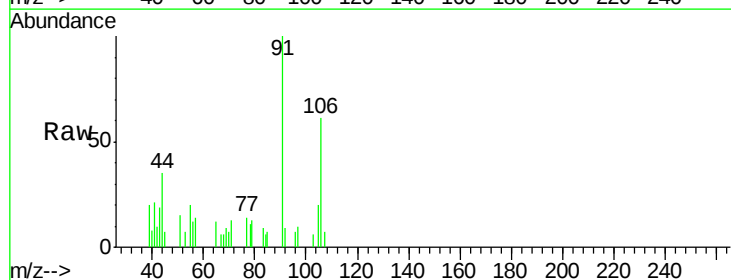
Instrument :
MSVOA_U
ClientSampled :

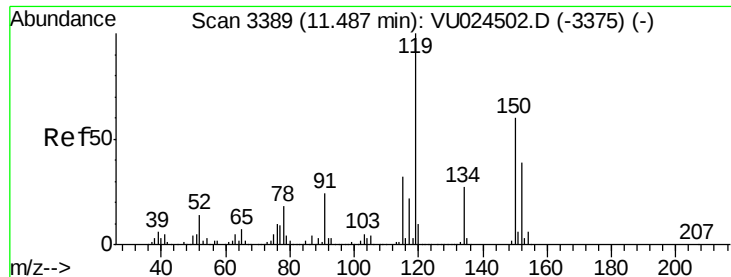
Tot Ion:117 Resp: 297157
Ion Ratio Lower Upper
117 100
82 55.5 44.3 66.5
119 32.9 25.4 38.2



#69
o-Xylene
Concen: 0.290 ug/l
RT: 9.79 min Scan# 2860
Delta R.T. 0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion:106 Resp: 1466
Ion Ratio Lower Upper
106 100
91 208.7 110.7 331.9



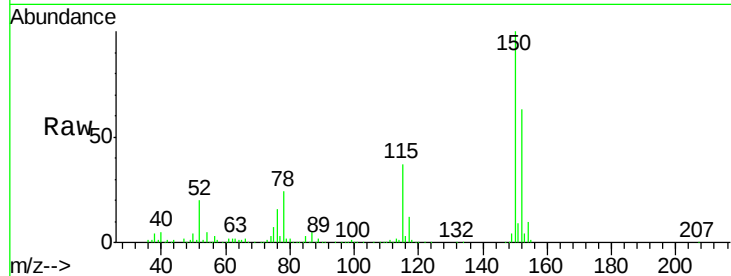


#72

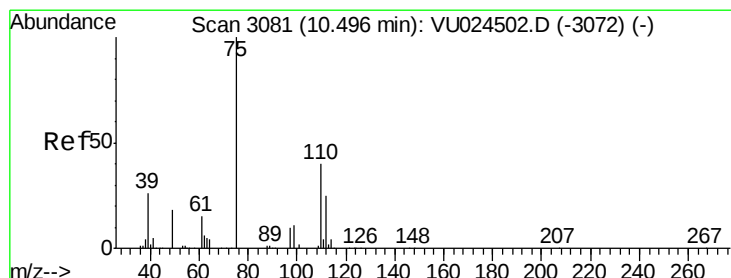
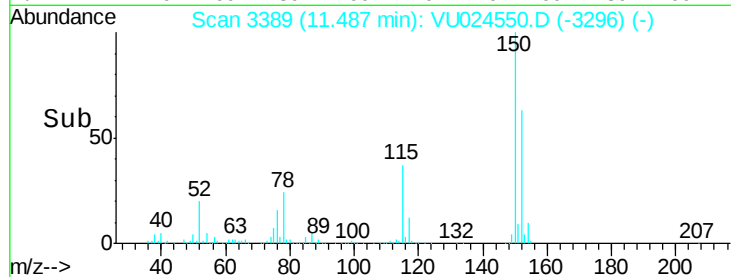
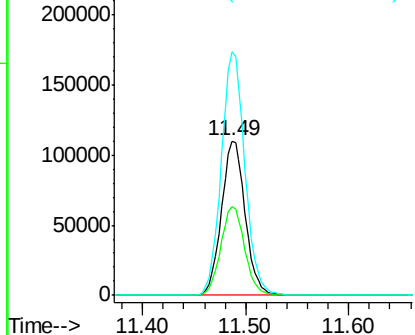
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.0	43.0	129.0
150	157.0	0.0	354.0



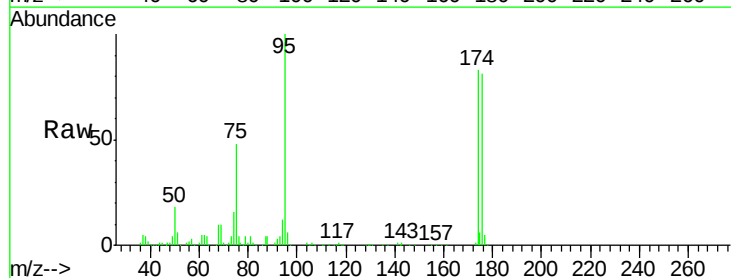
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



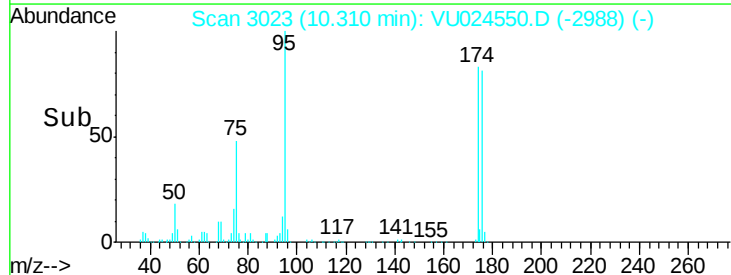
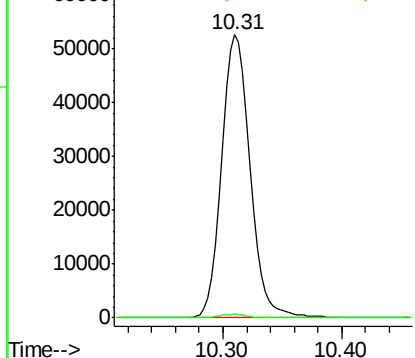
#76

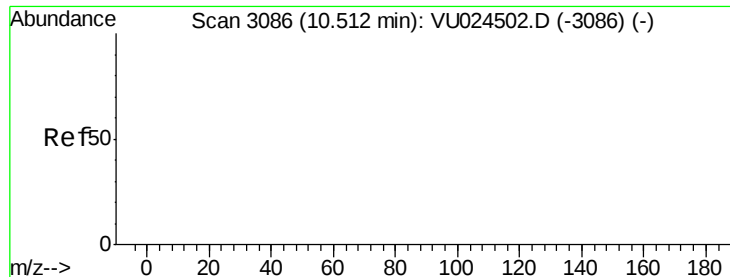
1,2,3-Trichloropropane
Concen: 22.549 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.19 min
Lab File: VU024550.D
Acq: 14 Jun 2018 19:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	20.9	62.7#



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: 52.187 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

Instrument :

MSVOA_U

ClientSampleId :

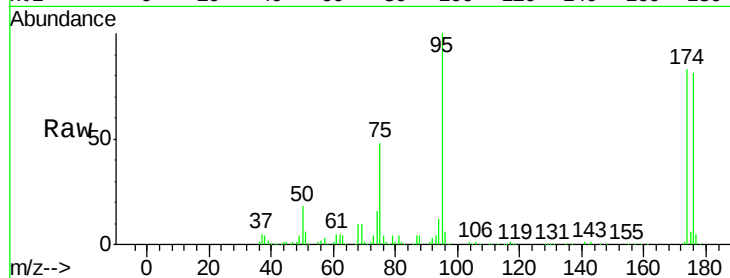
Tot Ion: 75 Resp: 87220

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

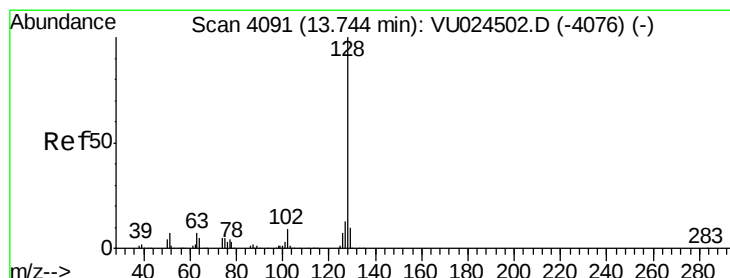
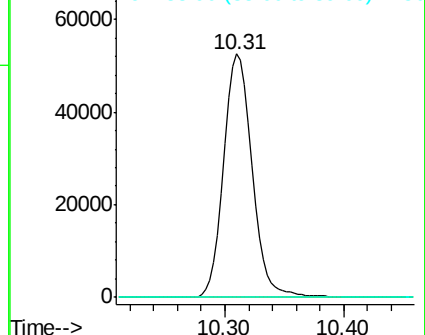
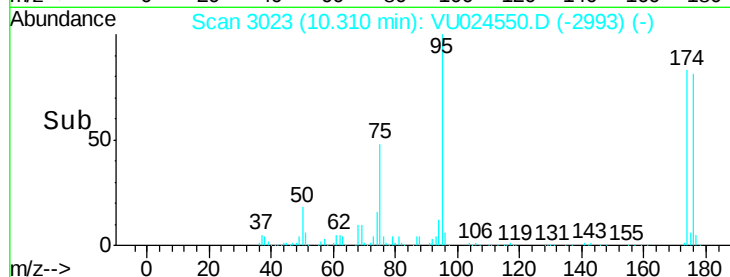
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024550.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024550.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024550.D (-2993) (-)



#95

Naphthalene

Concen: 0.834 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024550.D

Acq: 14 Jun 2018 19:12

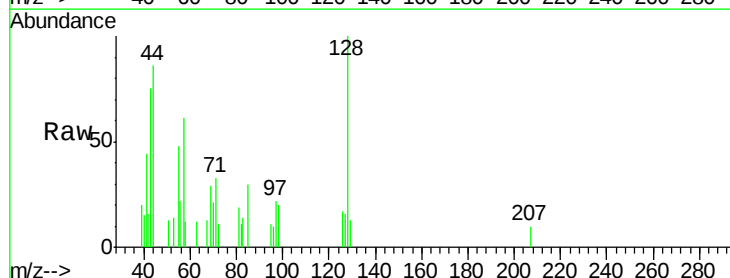
Tgt Ion:128 Resp: 2021

Ion Ratio Lower Upper

128 100

127 11.1 10.6 16.0

129 8.1 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024550.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024550.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024550.D (-3997) (-)

