

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100918\
 Data File : VD060152.D
 Acq On : 9 Oct 2018 15:44
 Operator : VA/AP
 Sample : J5324-01
 Misc : 5.01g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-DEBRIS

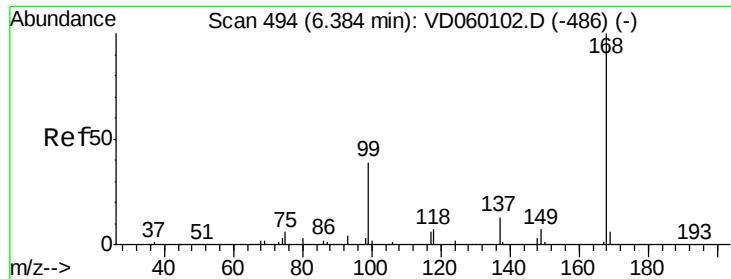
Quant Time: Oct 10 01:15:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.37	168	782297	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.42	114	1294461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.26	117	656060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	175128	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	628297	105.95	ug/l	0.00
Spiked Amount			Recovery	=	211.90%	
35) Dibromofluoromethane	6.29	113	718386	73.08	ug/l	0.00
Spiked Amount			Recovery	=	146.16%	
50) Toluene-d8	9.43	98	1195658	42.66	ug/l	0.00
Spiked Amount			Recovery	=	85.32%	
62) 4-Bromofluorobenzene	12.42	95	288539	27.49	ug/l	0.00
Spiked Amount			Recovery	=	54.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	770	1.129	ug/l #	1
11) Tert butyl alcohol	3.92	59	13602	31.983	ug/l	98
14) Allyl chloride	3.48	41	17050	2.572	ug/l #	50
16) Acetone	3.13	43	228467	212.329	ug/l	99
18) Methyl Acetate	3.52	43	8579	3.710	ug/l #	91
20) Methylene Chloride	3.69	84	47854	1.477	ug/l	89
25) 2-Butanone	5.59	43	176178	65.539	ug/l	98
29) Tetrahydrofuran	5.93	42	5065	3.244	ug/l #	49
31) Cyclohexane	6.37	56	19332	1.505	ug/l #	1
36) 1,1-Dichloropropene	6.37	75	52476	4.242	ug/l #	47
37) Ethyl Acetate	5.59	43	176437	21.489	ug/l #	71
38) Carbon Tetrachloride	6.37	117	60138	5.357	ug/l #	15
40) Benzene	6.77	78	52187	1.613	ug/l	92
41) Methacrylonitrile	5.94	41	7404	1.595	ug/l #	85
51) 4-Methyl-2-Pentanone	9.32	43	51194	7.514	ug/l	95
52) Toluene	9.52	92	35566	1.706	ug/l	99
59) 2-Hexanone	10.47	43	34035	6.947	ug/l	94
68) m/p-Xylenes	11.55	106	17536	2.041	ug/l	95
74) N-amyl acetate	12.18	43	7624	1.802	ug/l #	63
81) trans-1,4-Dichloro-2-buten	12.42	75	116332	164.156	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.08	105	21309	2.261	ug/l	95
86) p-Isopropyltoluene	13.33	119	57122	5.740	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.21	75	906	2.690	ug/l #	1
95) Naphthalene	14.95	128	32187	5.201	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :

MSVOA_D

ClientSampleId :

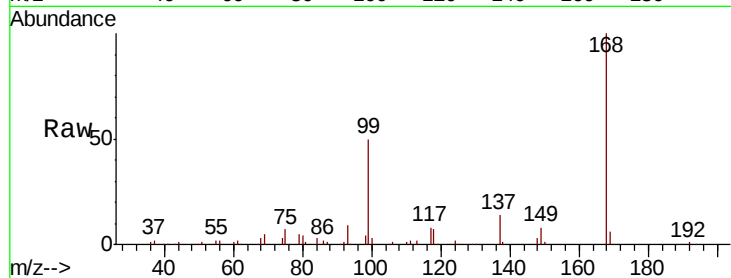
OILY-DEBRIS

Tot Ion:168 Resp: 782297

Ion Ratio Lower Upper

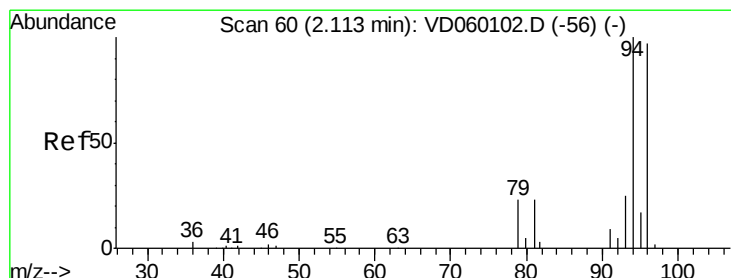
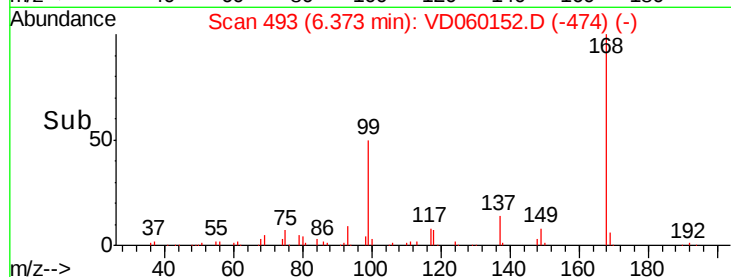
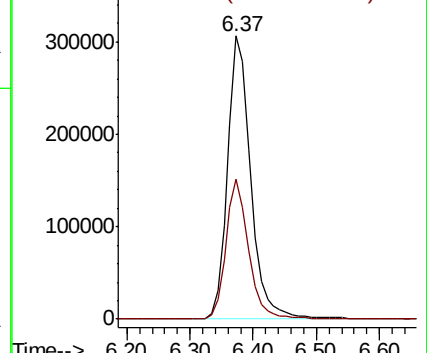
168 100

99 49.6 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.129 ug/l

RT: 2.13 min Scan# 62

Delta R.T. 0.02 min

Lab File: VD060152.D

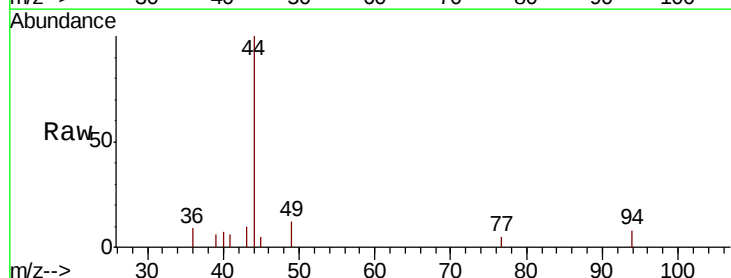
Acq: 9 Oct 2018 15:44

Tgt Ion: 94 Resp: 770

Ion Ratio Lower Upper

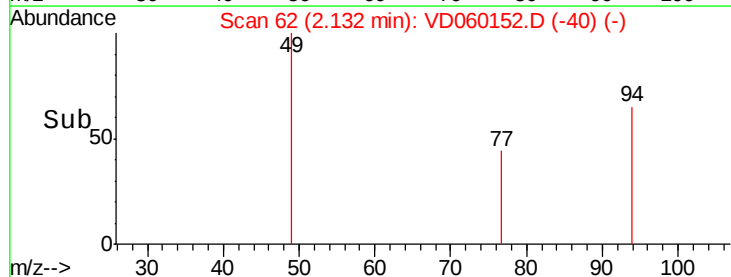
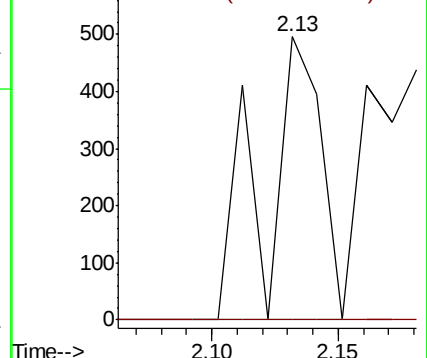
94 100

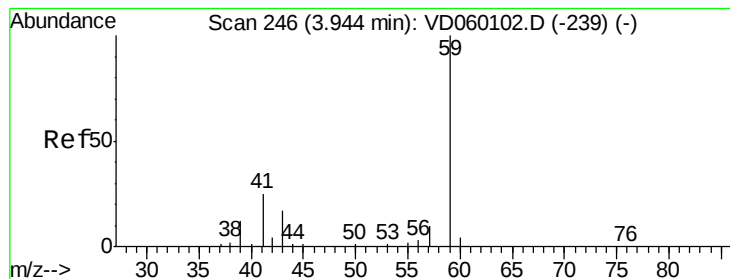
96 0.0 77.4 116.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



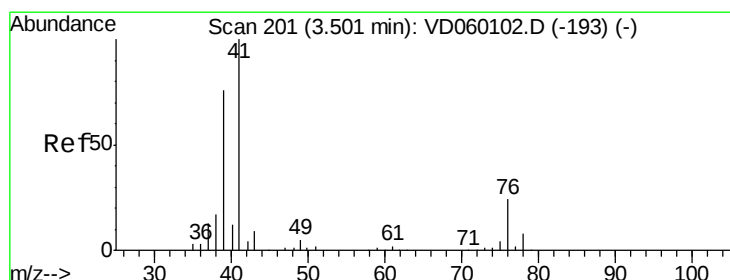
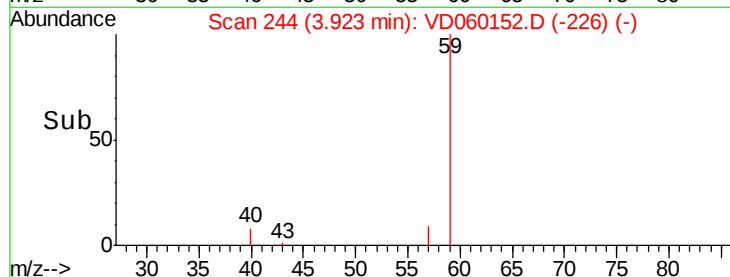
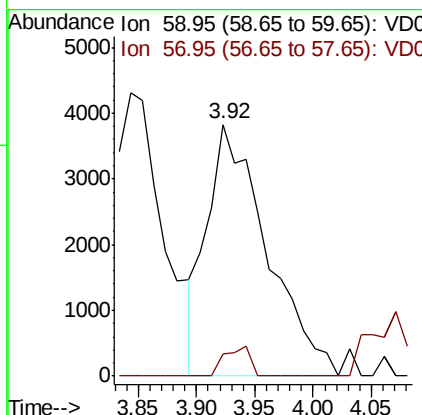
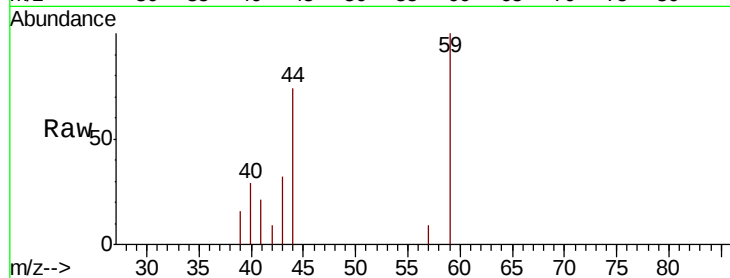


#11

Tert butyl alcohol
 Concen: 31.983 ug/l
 RT: 3.92 min Scan# 244
 Delta R.T. -0.02 min
 Lab File: VD060152.D
 Acq: 9 Oct 2018 15:44

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-DEBRIS

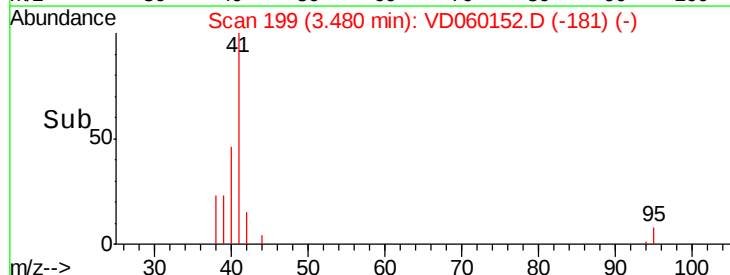
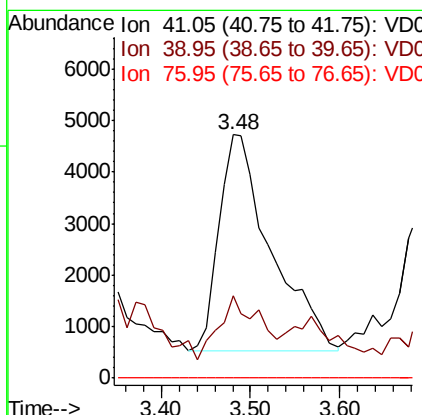
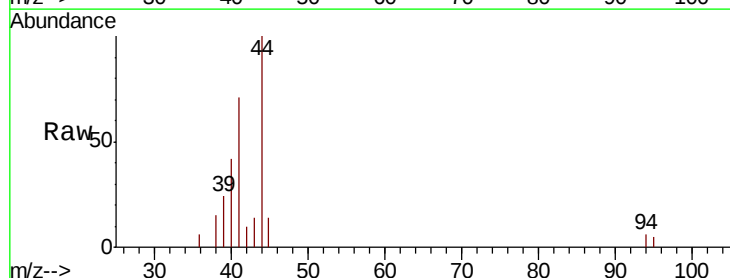
Tot Ion: 59 Resp: 13602
 Ion Ratio Lower Upper
 59 100
 57 8.9 7.8 11.6

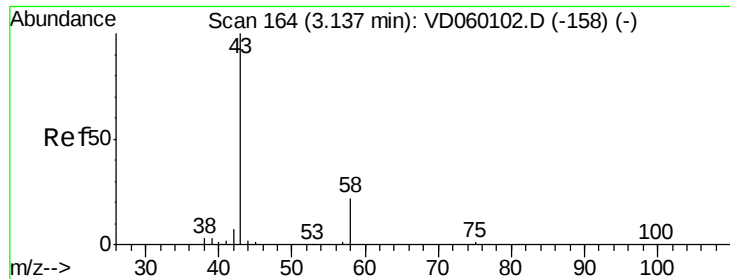


#14

Allyl chloride
 Concen: 2.572 ug/l
 RT: 3.48 min Scan# 199
 Delta R.T. -0.02 min
 Lab File: VD060152.D
 Acq: 9 Oct 2018 15:44

Tgt Ion: 41 Resp: 17050
 Ion Ratio Lower Upper
 41 100
 39 33.8 60.6 90.8#
 76 0.0 21.3 31.9#





#16

Acetone

Concen: 212.329 ug/l

RT: 3.13 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :

MSVOA_D

ClientSampleId :

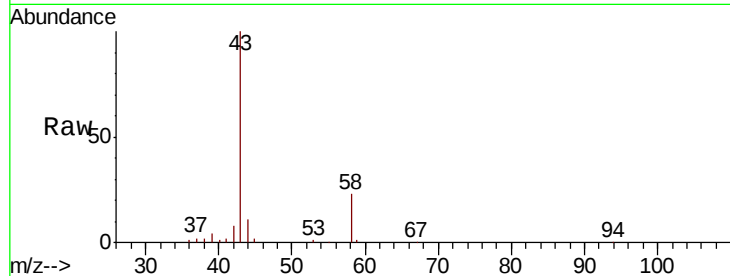
OILY-DEBRIS

Tot Ion: 43 Resp: 228467

Ion Ratio Lower Upper

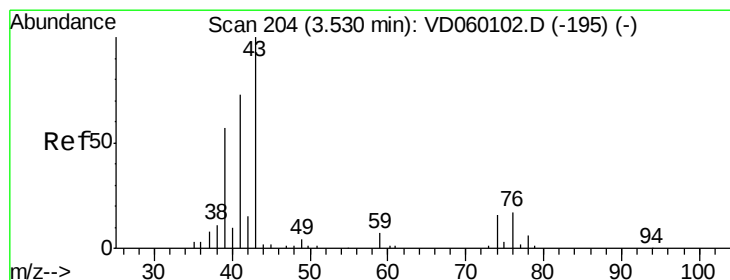
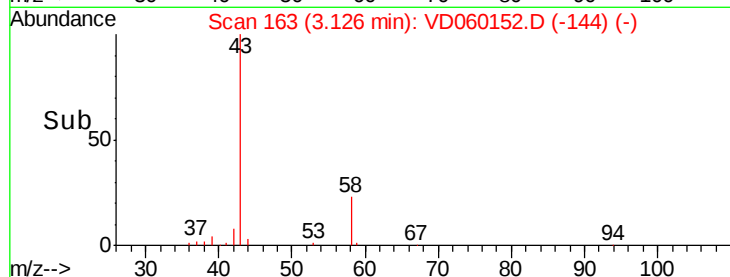
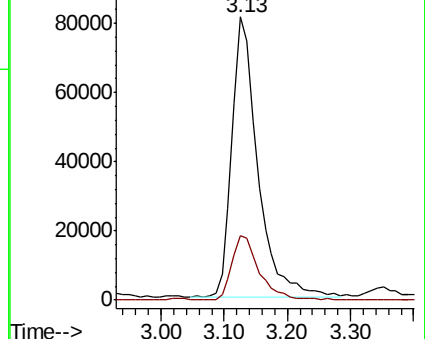
43 100

58 22.7 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 3.710 ug/l

RT: 3.52 min Scan# 203

Delta R.T. -0.01 min

Lab File: VD060152.D

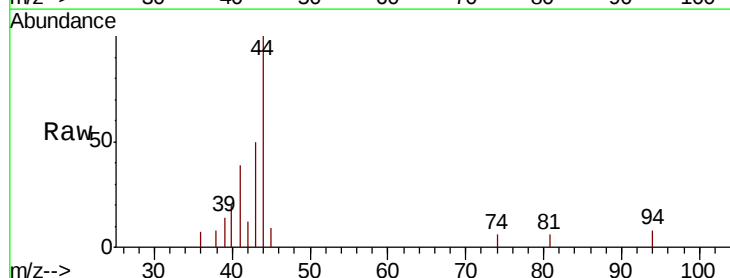
Acq: 9 Oct 2018 15:44

Tgt Ion: 43 Resp: 8579

Ion Ratio Lower Upper

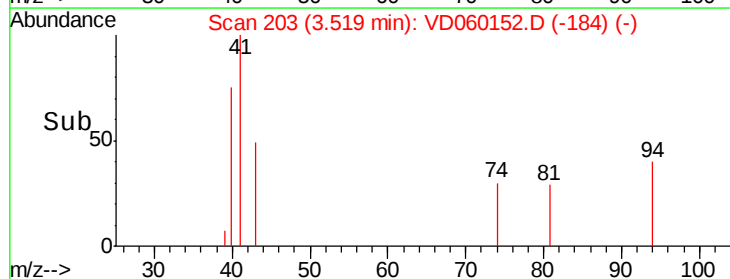
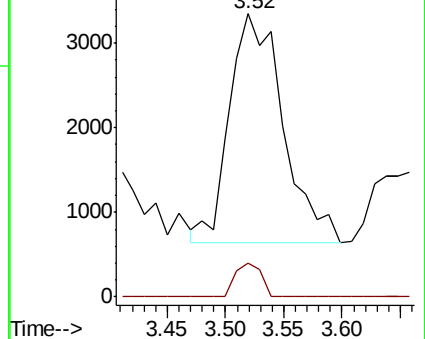
43 100

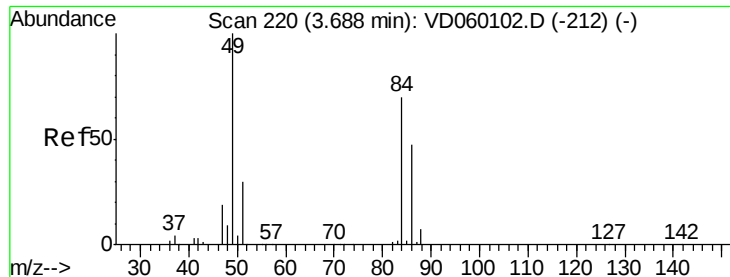
74 12.0 12.6 19.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

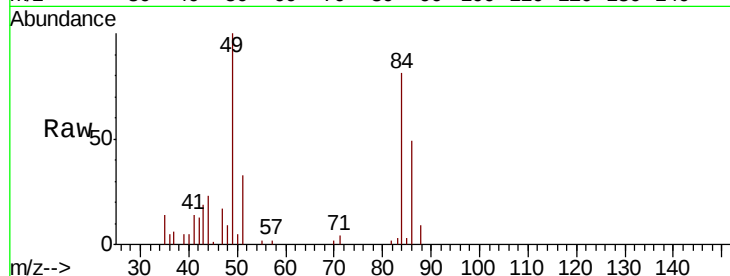




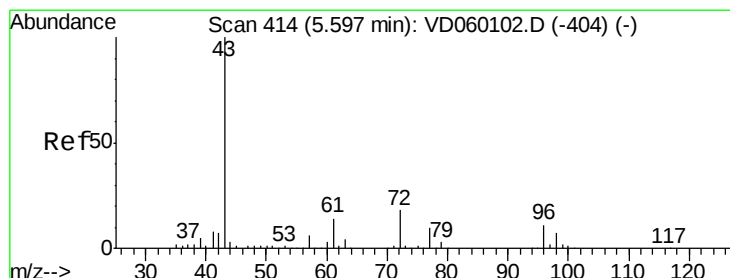
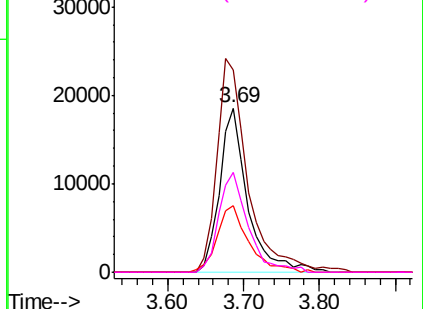
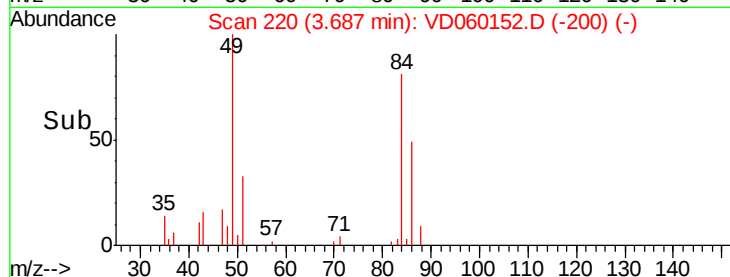
#20
Methvlene Chloride
Concen: 1.477 ug/l
RT: 3.69 min Scan# 220
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

Tot Ion: 84 Resp: 47854
Ion Ratio Lower Upper
84 100
49 123.7 114.6 172.0
51 40.4 33.8 50.8
86 61.2 53.3 79.9

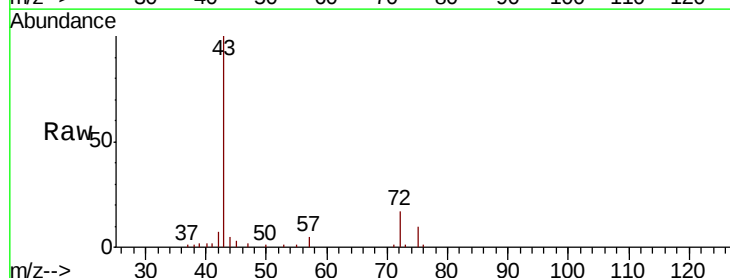


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

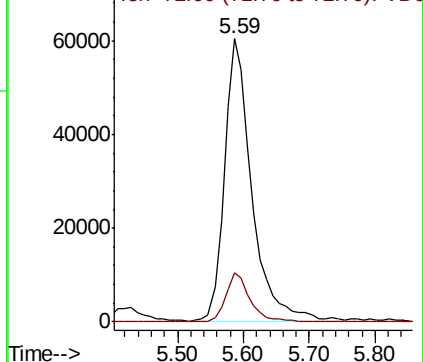
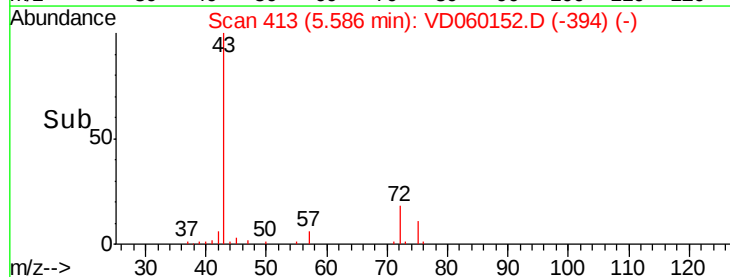


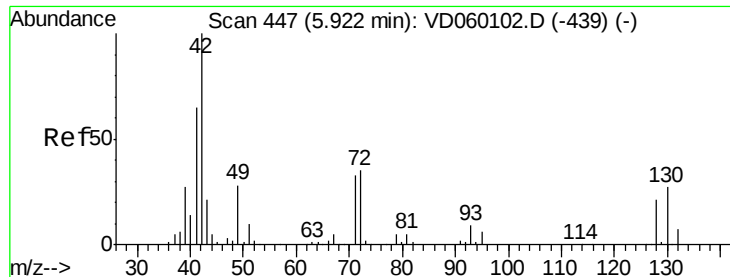
#25
2-Butanone
Concen: 65.539 ug/l
RT: 5.59 min Scan# 413
Delta R.T. -0.01 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Tgt Ion: 43 Resp: 176178
Ion Ratio Lower Upper
43 100
72 17.2 14.5 21.7



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

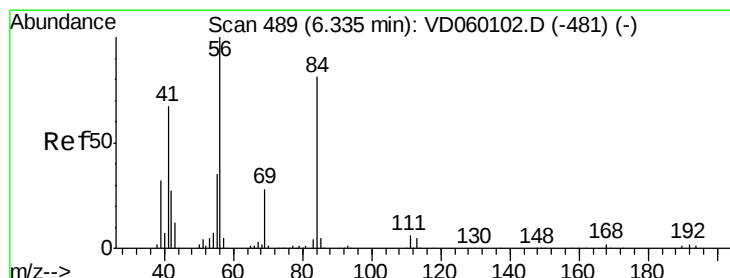
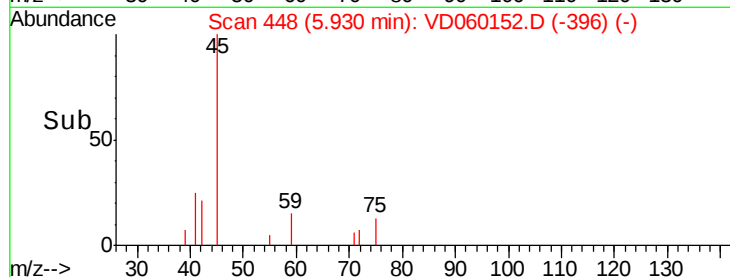
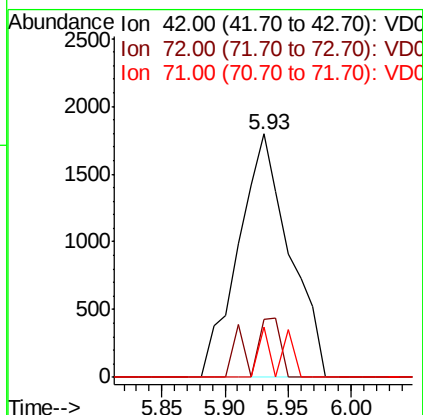
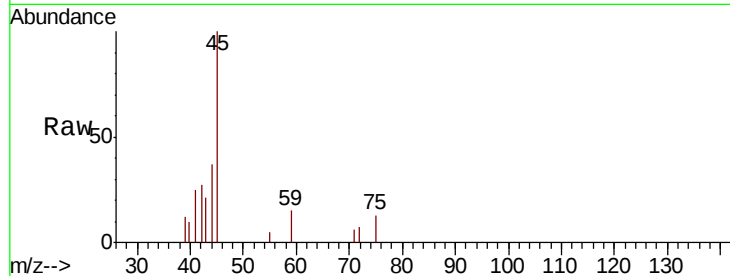




#29
Tetrahydrofuran
Concen: 3.244 ug/l
RT: 5.93 min Scan# 448
Delta R.T. 0.01 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

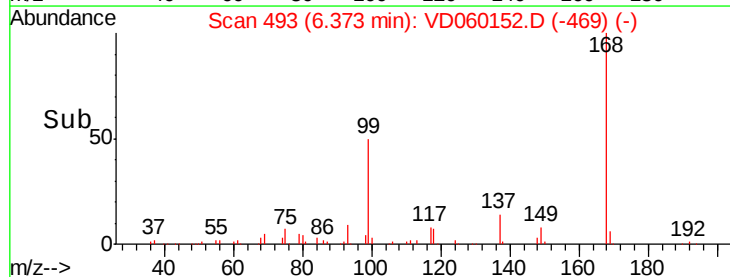
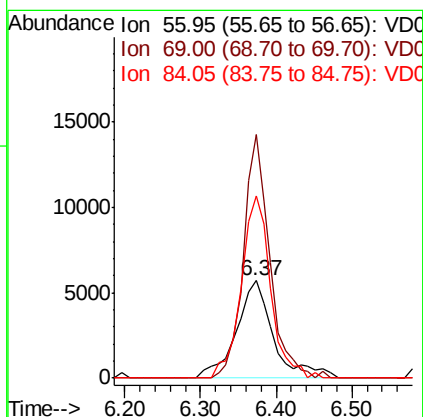
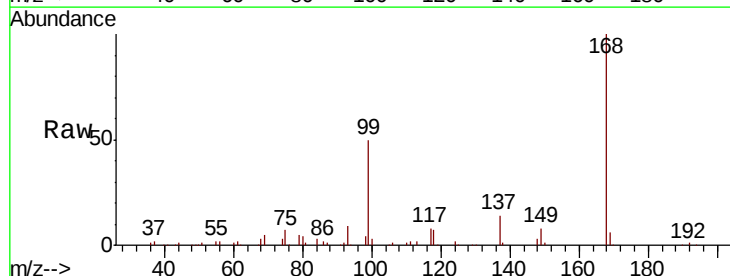
Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

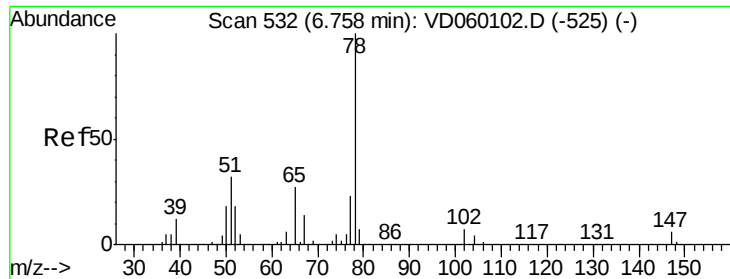
Tot Ion: 42 Resp: 5065
Ion Ratio Lower Upper
42 100
72 0.0 26.9 40.3#
71 8.5 26.7 40.1#



#31
Cyclohexane
Concen: 1.505 ug/l
RT: 6.37 min Scan# 493
Delta R.T. 0.04 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Tgt Ion: 56 Resp: 19332
Ion Ratio Lower Upper
56 100
69 249.4 22.8 34.2#
84 186.8 64.9 97.3#

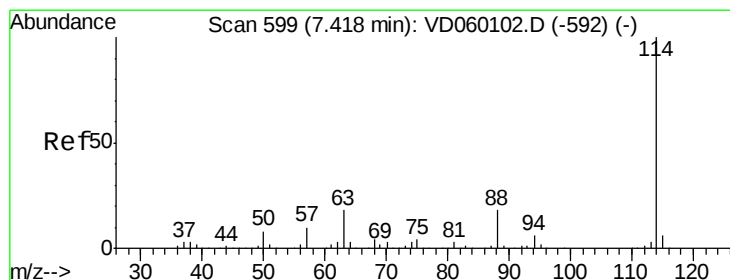
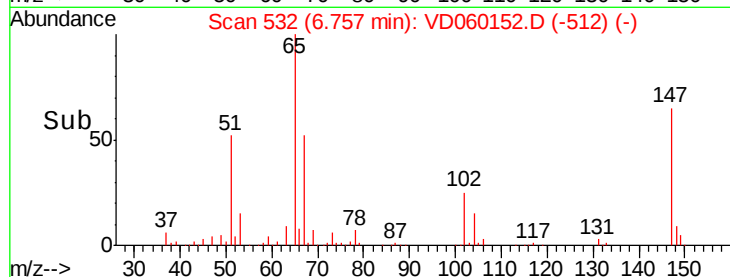
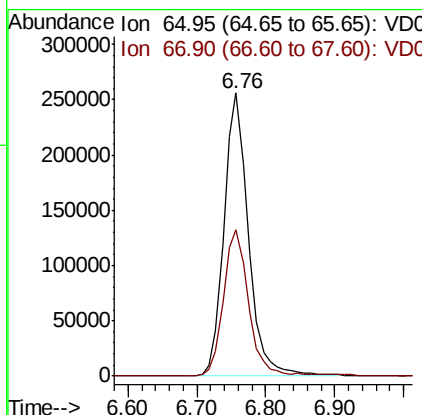
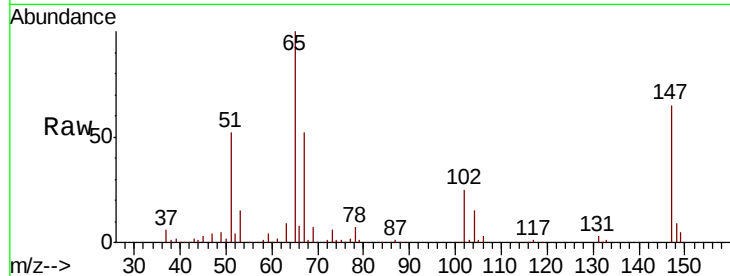




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.76 min Scan# 532
 Delta R.T. -0.00 min
 Lab File: VD060152.D
 Acq: 9 Oct 2018 15:44

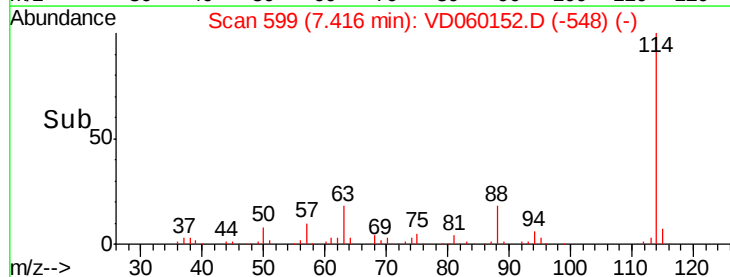
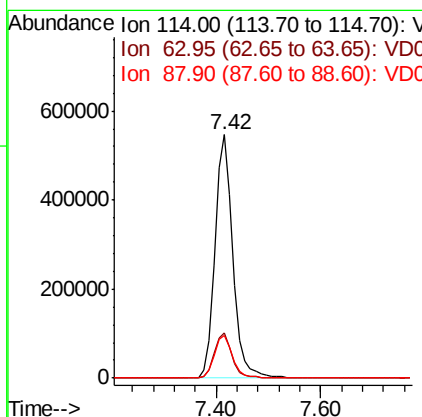
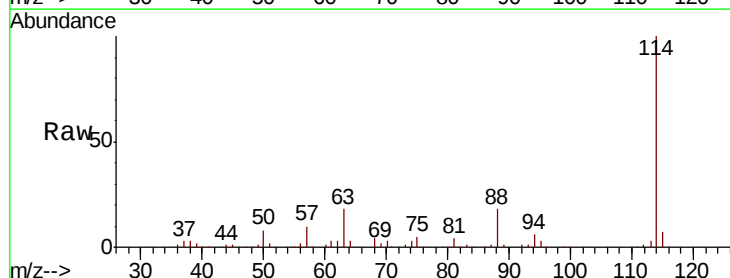
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-DEBRIS

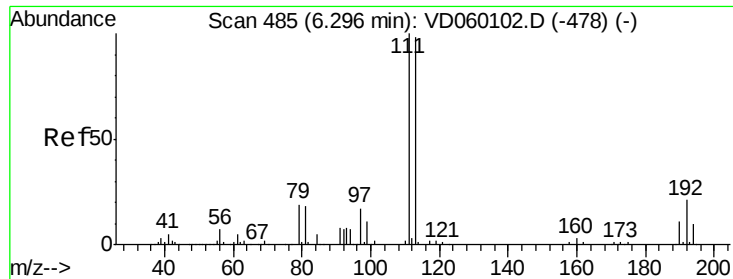
Tot Ion: 65 Resp: 628297
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.00 min
 Lab File: VD060152.D
 Acq: 9 Oct 2018 15:44

Tgt Ion: 114 Resp: 1294461
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.0
 88 17.5 0.0 36.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.29 min Scan# 485

Delta R.T. -0.00 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

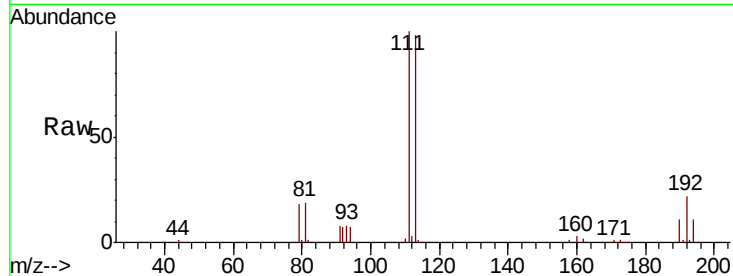
Tot Ion:113 Resp: 718386

Ion Ratio Lower Upper

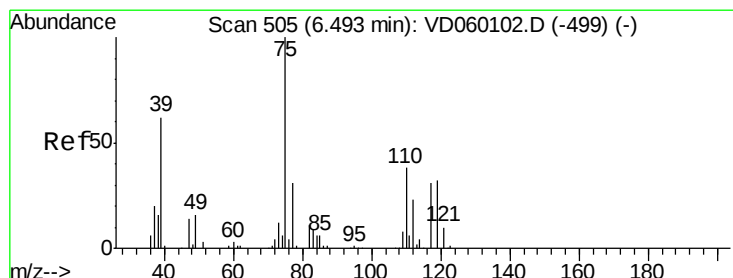
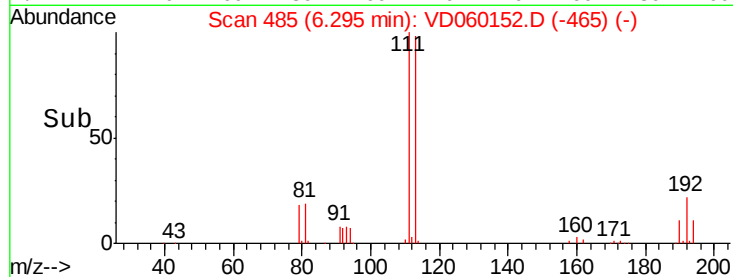
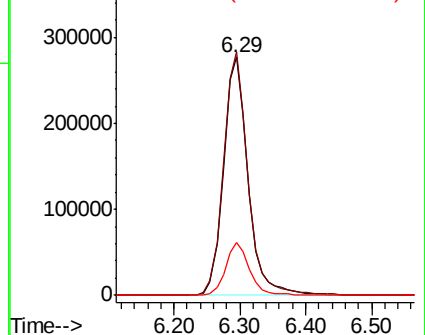
113 100

111 102.2 81.5 122.3

192 22.4 17.4 26.0



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.242 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.12 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

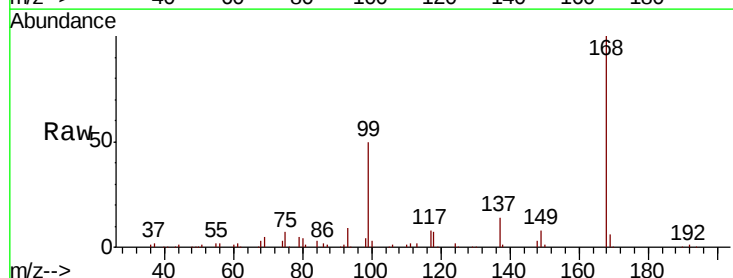
Tgt Ion: 75 Resp: 52476

Ion Ratio Lower Upper

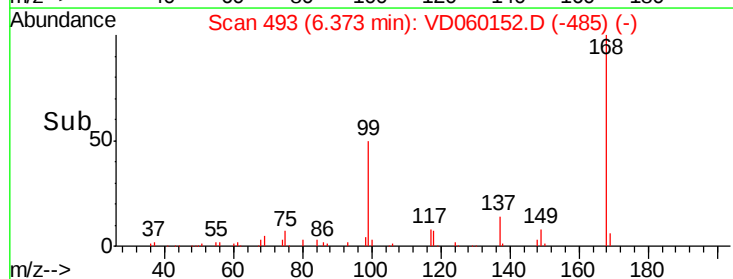
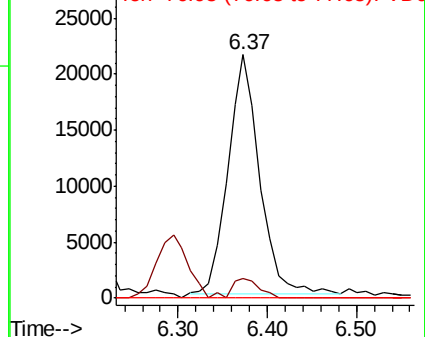
75 100

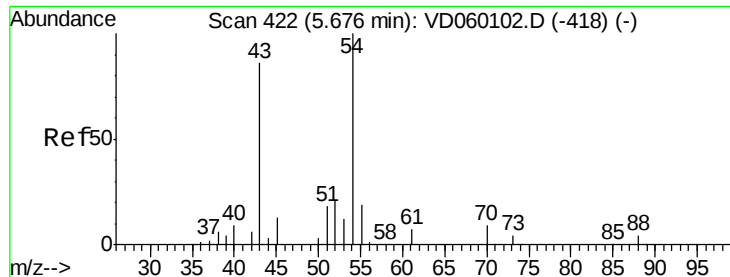
110 8.0 19.0 57.0#

77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

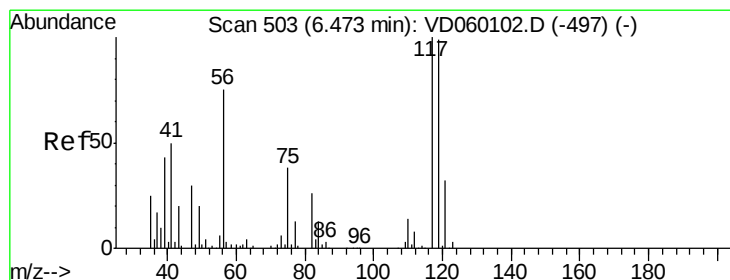
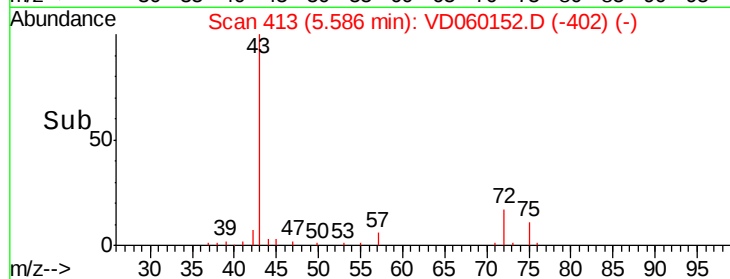
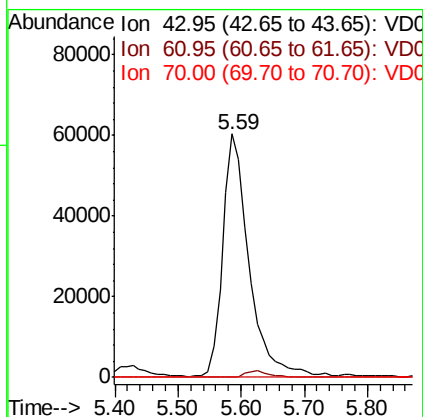
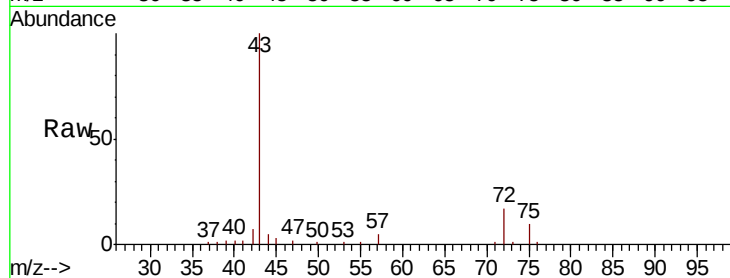




#37
Ethyl Acetate
Concen: 21.489 ug/l
RT: 5.59 min Scan# 413
Delta R.T. -0.09 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

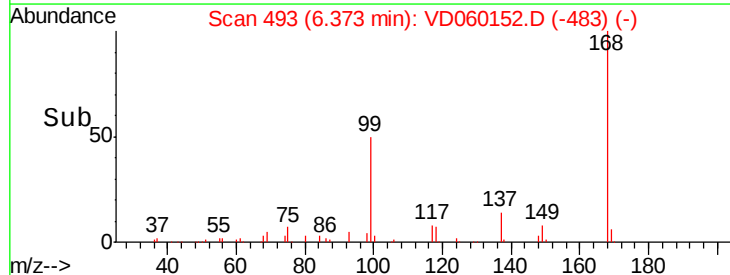
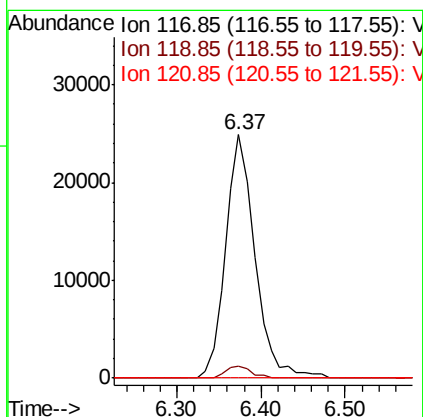
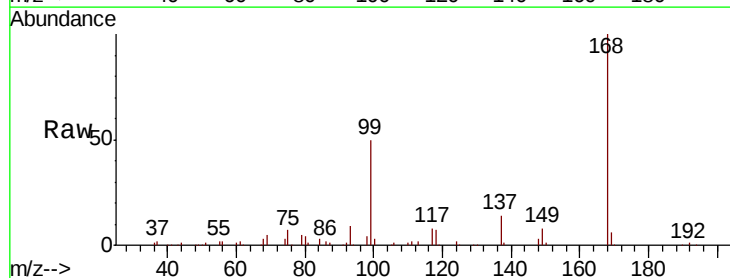
Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

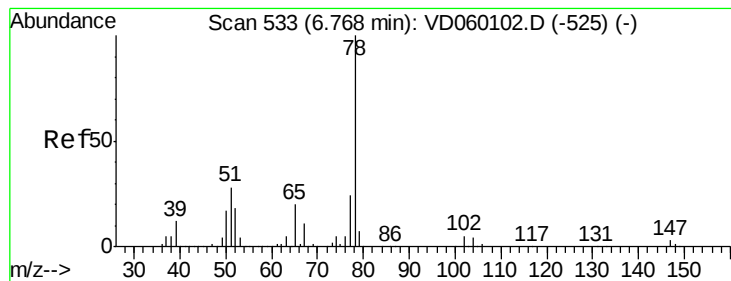
Tot Ion: 43 Resp: 176437
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 0.0 6.3 9.5#



#38
Carbon Tetrachloride
Concen: 5.357 ug/l
RT: 6.37 min Scan# 493
Delta R.T. -0.10 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Tgt Ion: 117 Resp: 60138
Ion Ratio Lower Upper
117 100
119 5.0 77.8 116.6#
121 0.0 24.8 37.2#





#40

Benzene

Concen: 1.613 ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.00 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :

MSVOA_D

ClientSampleId :

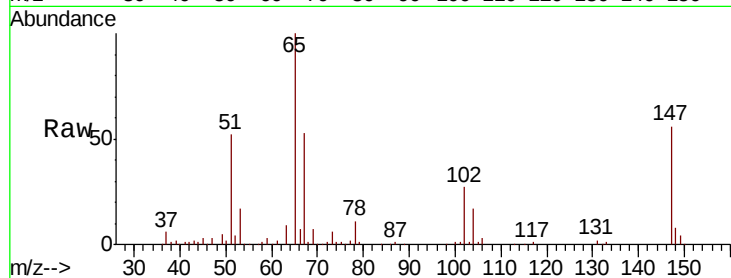
OILY-DEBRIS

Tot Ion: 78 Resp: 52187

Ion Ratio Lower Upper

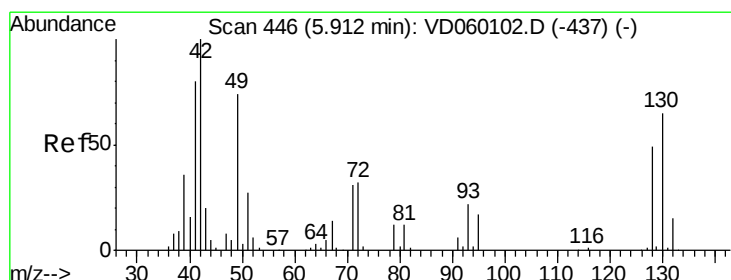
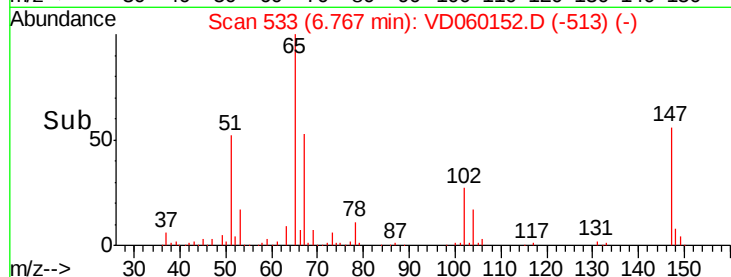
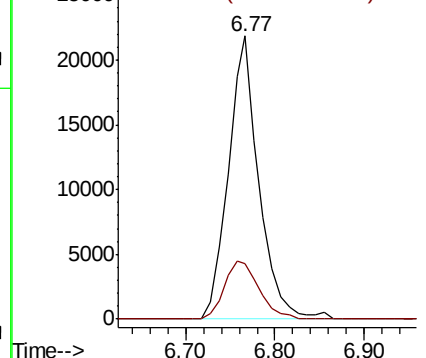
78 100

77 19.7 19.0 28.4



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#41

Methacrylonitrile

Concen: 1.595 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.03 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Tgt Ion: 41 Resp: 7404

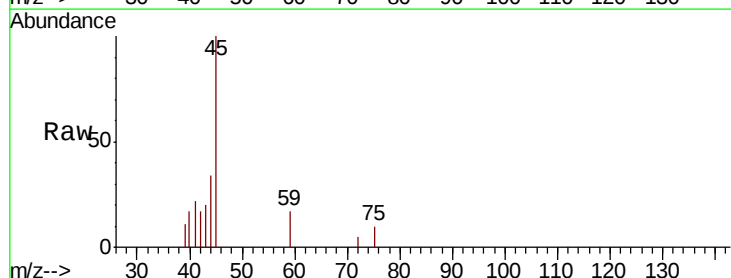
Ion Ratio Lower Upper

41 100

39 48.1 36.0 54.0

67 0.0 13.9 20.9#

52 0.0 6.1 9.1#

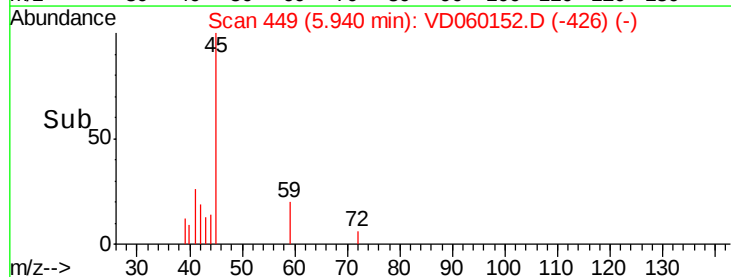
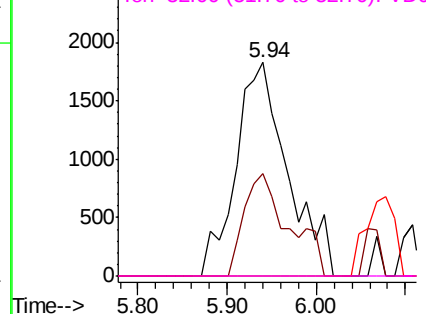


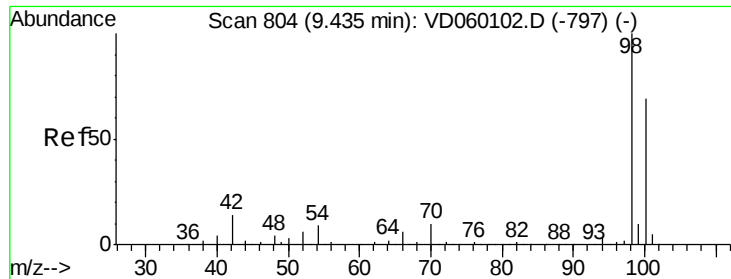
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

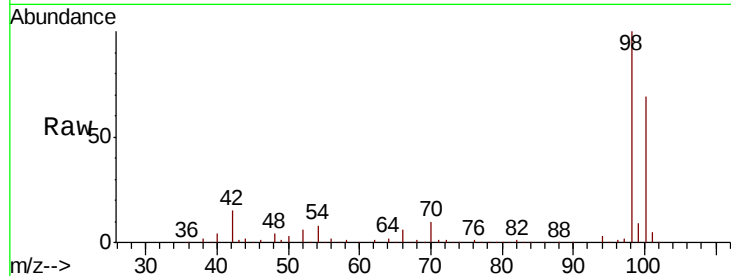




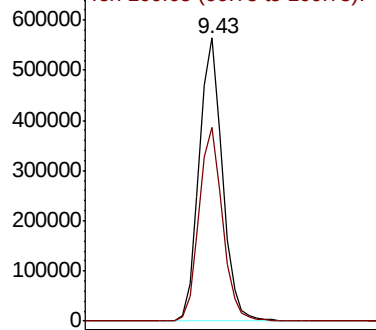
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 804
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

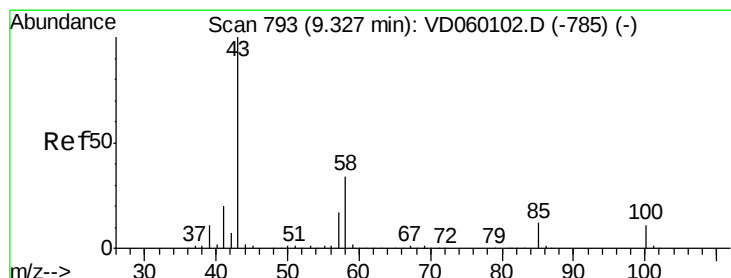
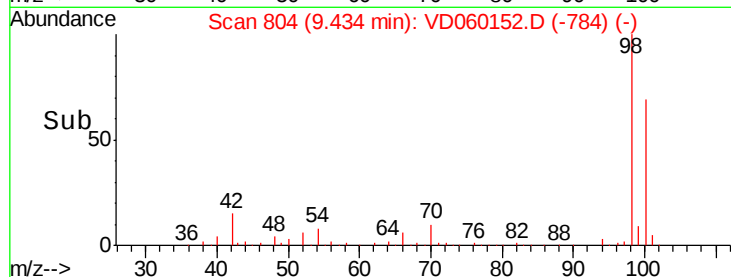
Tot Ion: 98 Resp: 1195658
Ion Ratio Lower Upper
98 100
100 68.6 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

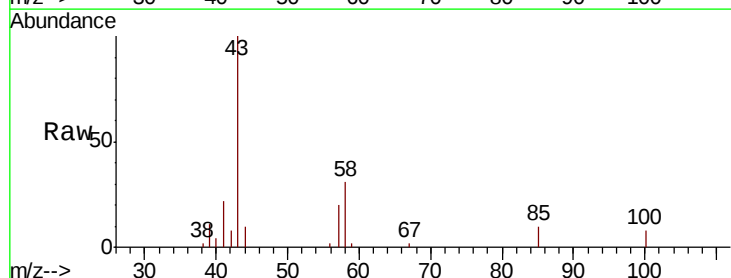


Time-->

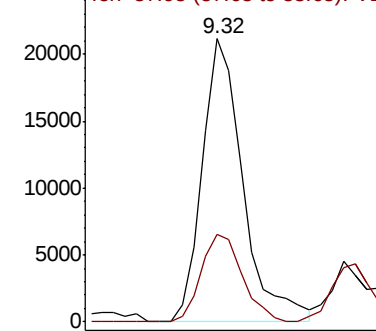


#51
4-Methyl-2-Pentanone
Concen: 7.514 ug/l
RT: 9.32 min Scan# 792
Delta R.T. -0.01 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

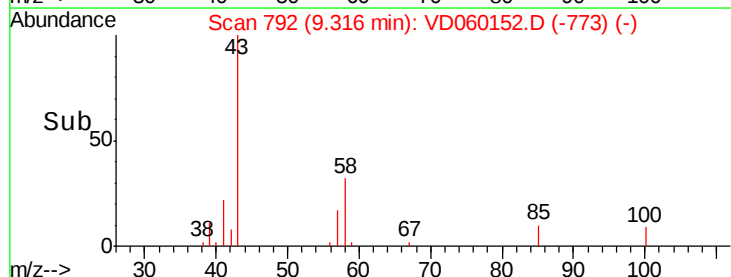
Tgt Ion: 43 Resp: 51194
Ion Ratio Lower Upper
43 100
58 31.1 27.2 40.8

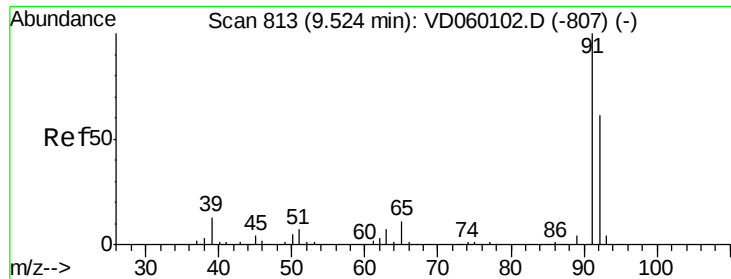


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



Time-->





#52

Toluene

Concen: 1.706 ug/l

RT: 9.52 min Scan# 813

Delta R.T. -0.00 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :

MSVOA_D

ClientSampleId :

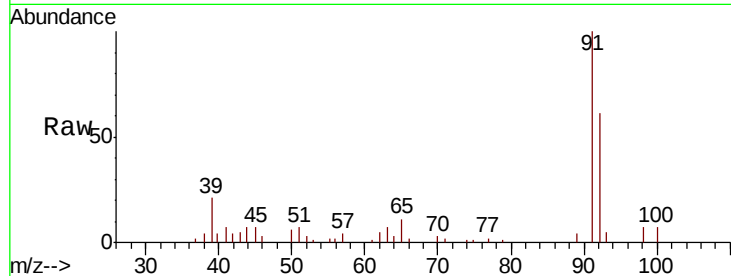
OILY-DEBRIS

Tot Ion: 92 Resp: 35566

Ion Ratio Lower Upper

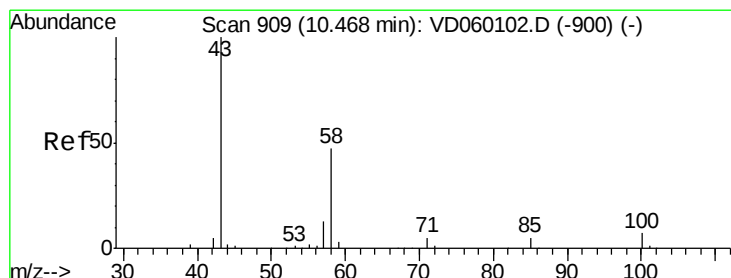
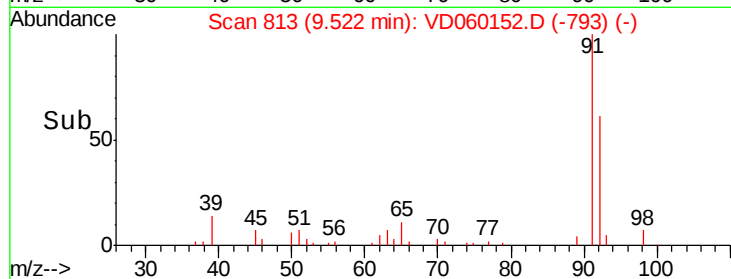
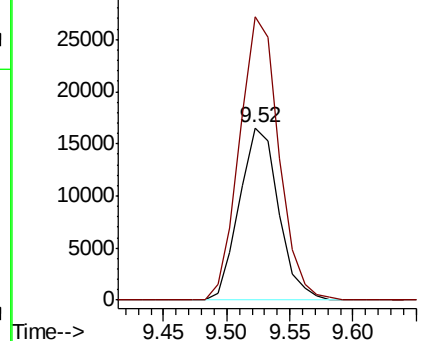
92 100

91 164.1 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 6.947 ug/l

RT: 10.47 min Scan# 909

Delta R.T. -0.00 min

Lab File: VD060152.D

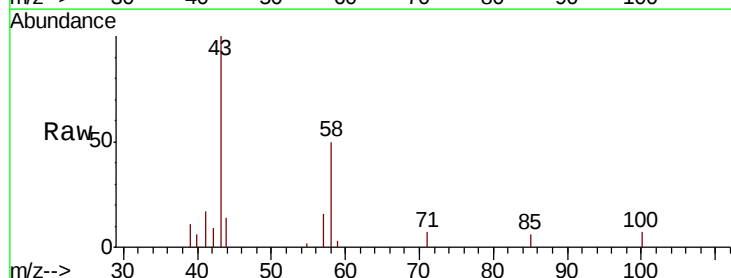
Acq: 9 Oct 2018 15:44

Tgt Ion: 43 Resp: 34035

Ion Ratio Lower Upper

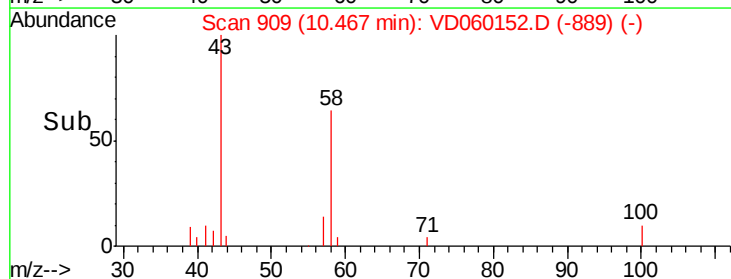
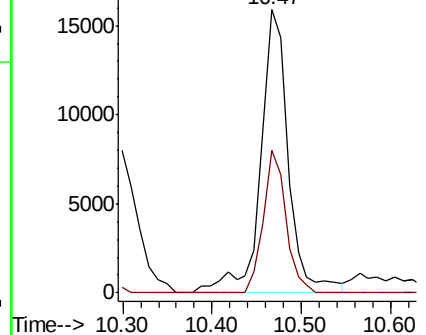
43 100

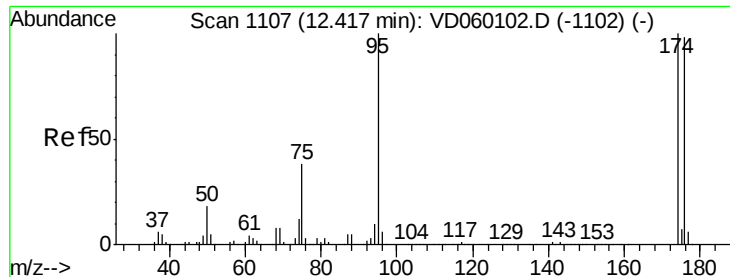
58 50.4 23.3 69.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

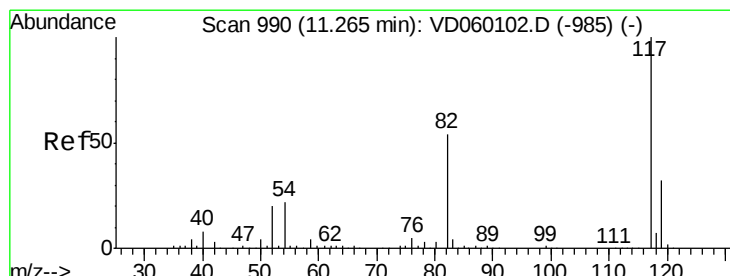
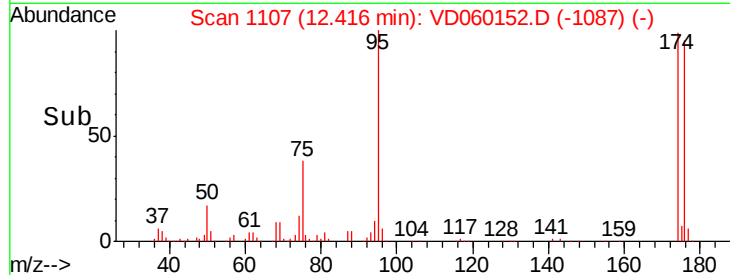
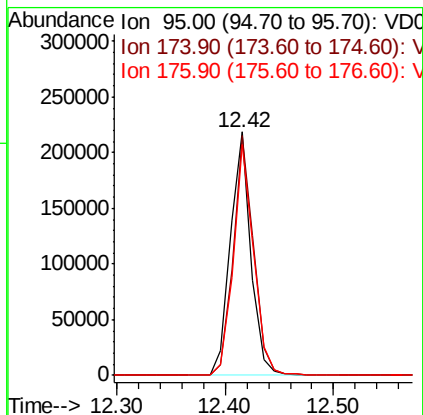
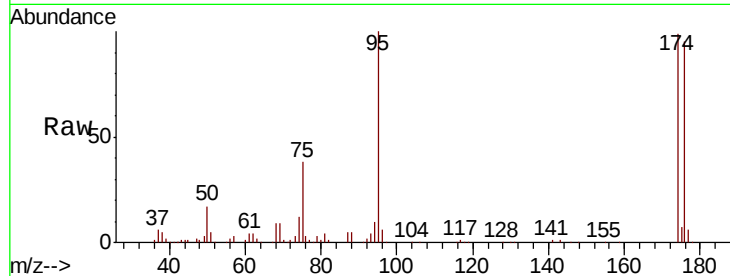




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

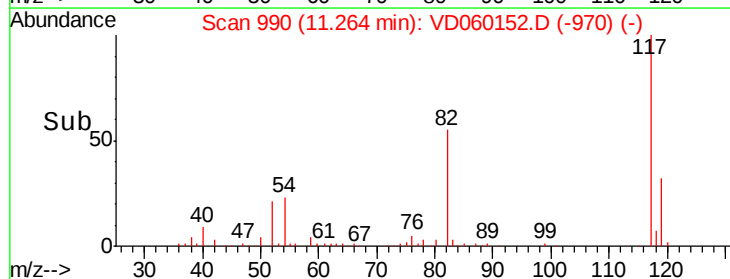
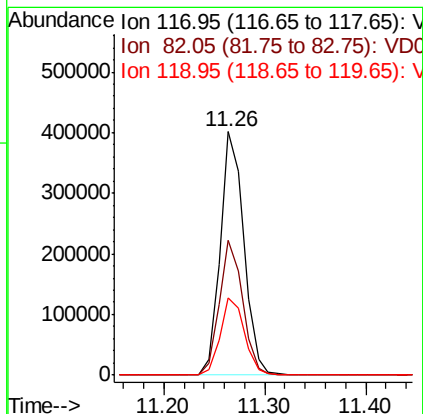
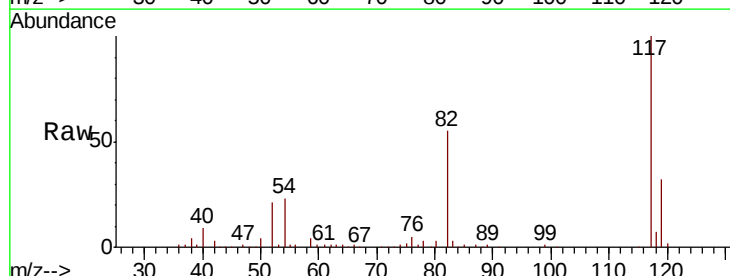
Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

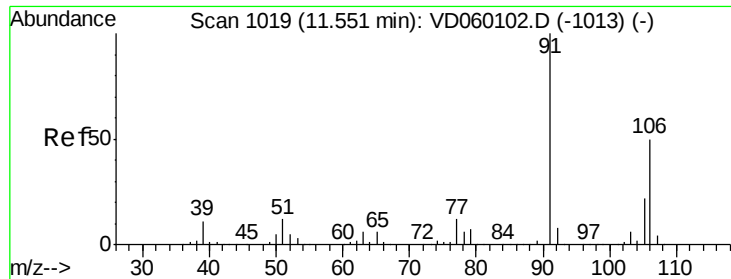
Tot Ion: 95 Resp: 288539
Ion Ratio Lower Upper
95 100
174 98.7 0.0 200.2
176 95.0 0.0 195.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.26 min Scan# 990
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Tgt Ion: 117 Resp: 656060
Ion Ratio Lower Upper
117 100
82 55.4 43.4 65.2
119 31.9 26.0 39.0

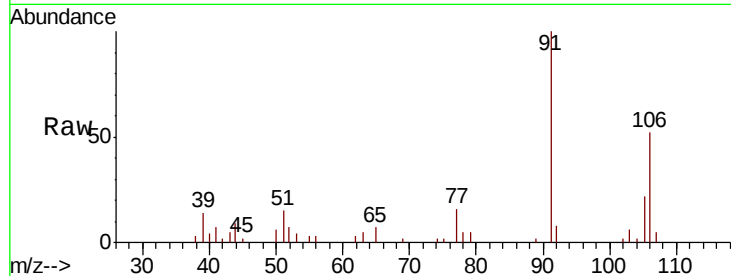




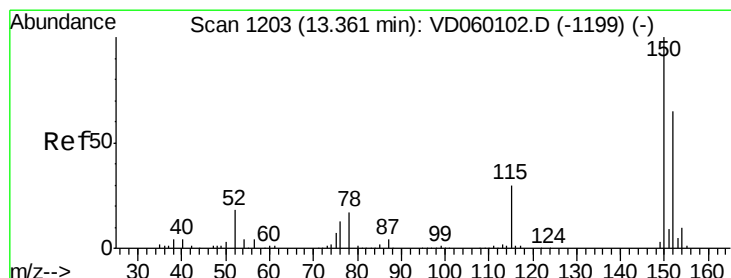
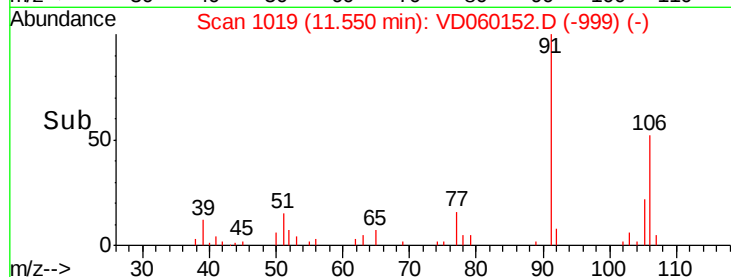
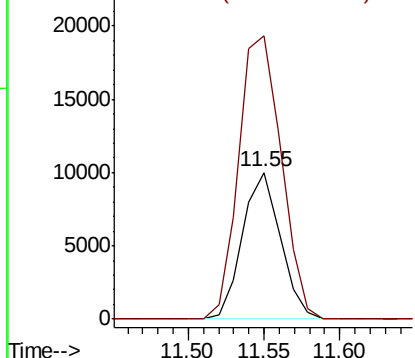
#68
m/p-Xvlenes
Concen: 2.041 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

Tot Ion:106 Resp: 17536
Ion Ratio Lower Upper
106 100
91 193.1 160.0 240.0

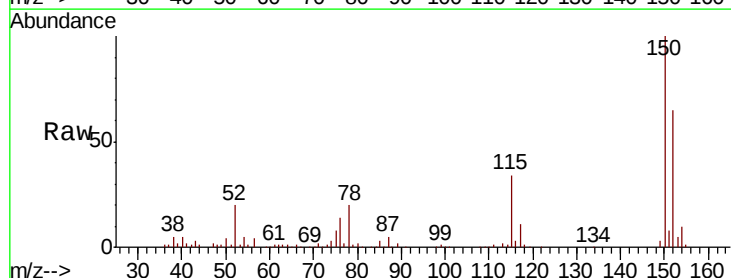


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

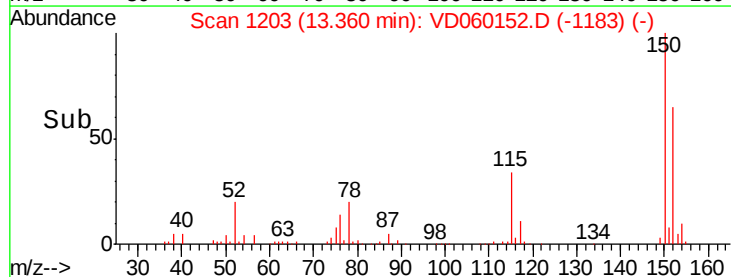
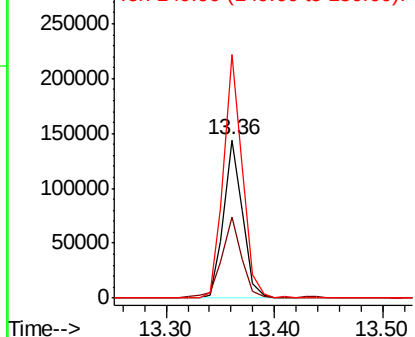


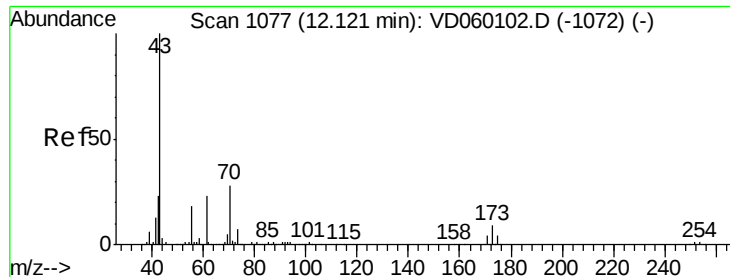
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Tgt Ion:152 Resp: 175128
Ion Ratio Lower Upper
152 100
115 51.7 27.1 81.2
150 154.2 0.0 311.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.802 ug/l

RT: 12.18 min Scan# 1083

Delta R.T. 0.06 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :

MSVOA_D

ClientSampleId :

OILY-DEBRIS

Tot Ion: 43 Resp: 7624

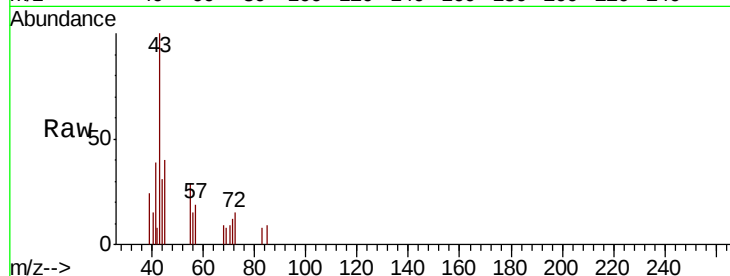
Ion Ratio Lower Upper

43 100

70 9.3 22.1 33.1#

55 29.2 14.1 21.1#

61 0.0 18.4 27.6#

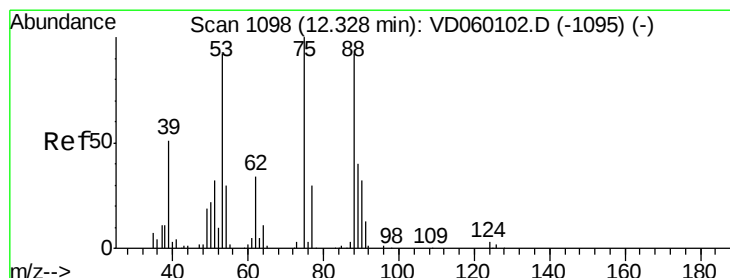
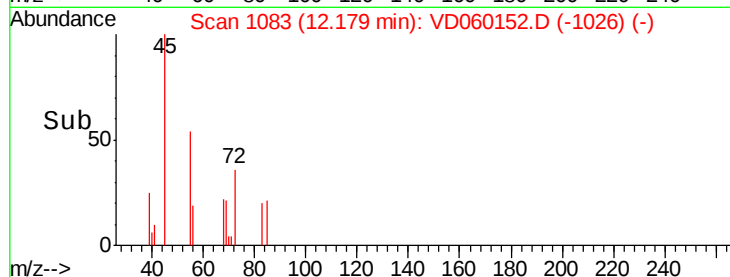
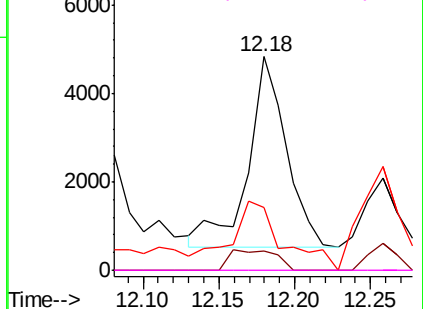


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 164.156 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

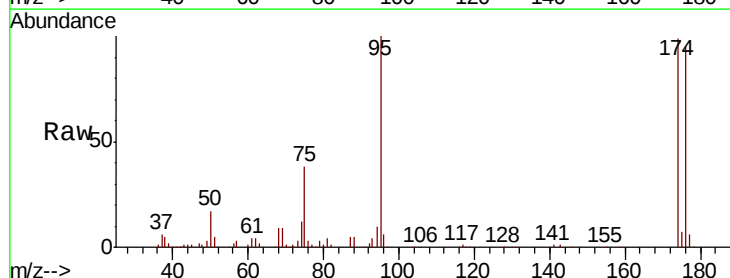
Tgt Ion: 75 Resp: 116332

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

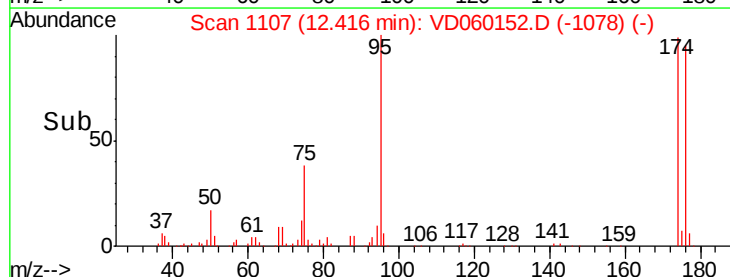
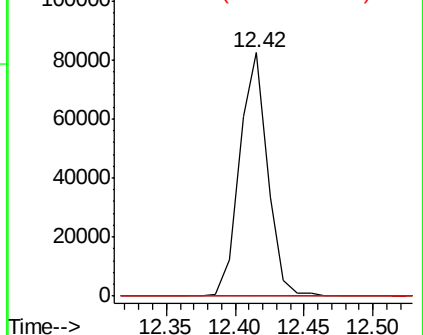
89 0.0 32.0 48.0#

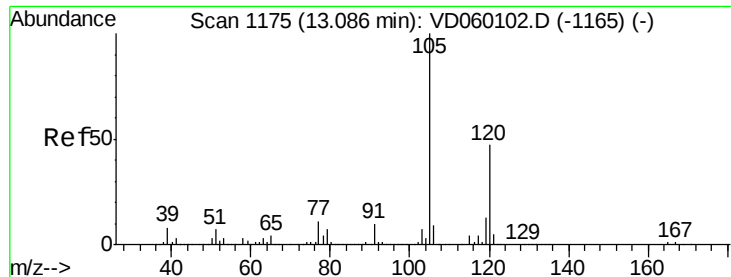


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

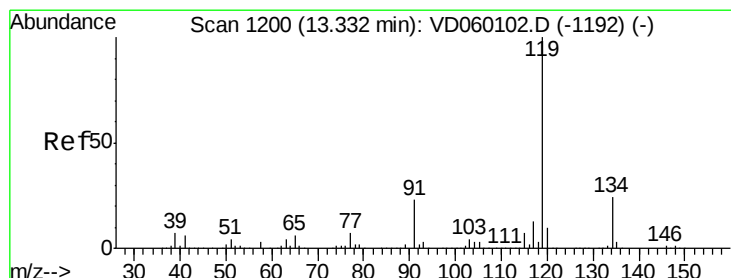
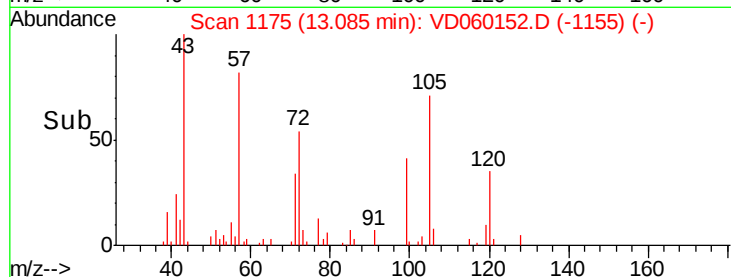
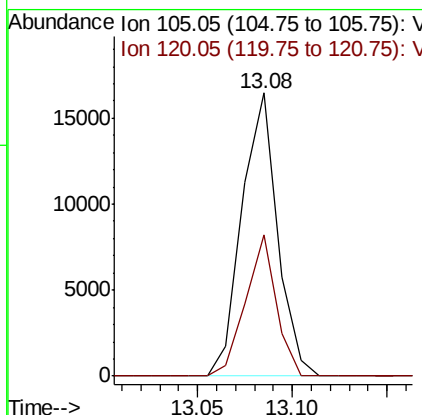
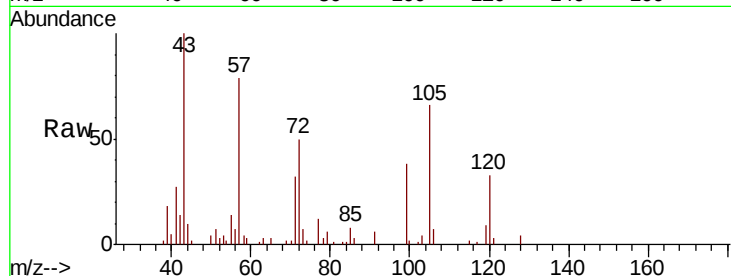




#84
1,2,4-Trimethylbenzene
Concen: 2.261 ug/l
RT: 13.08 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

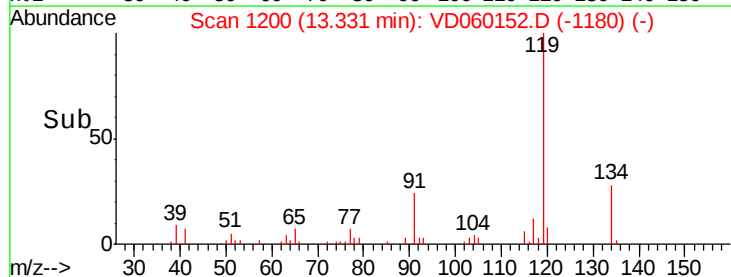
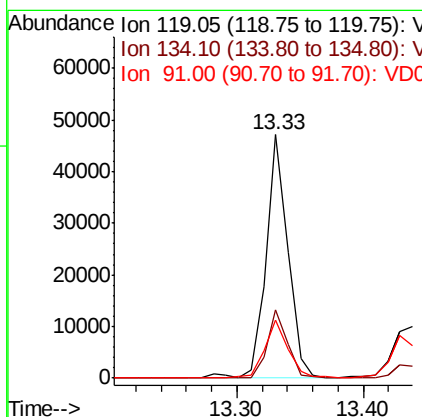
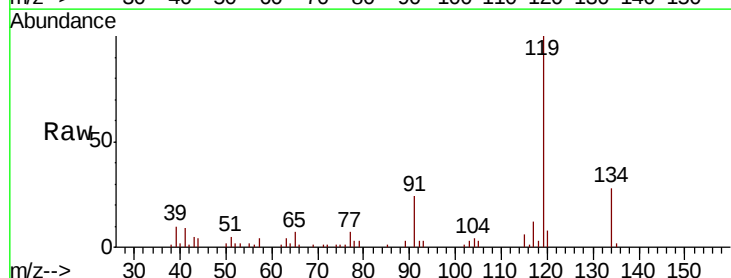
Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

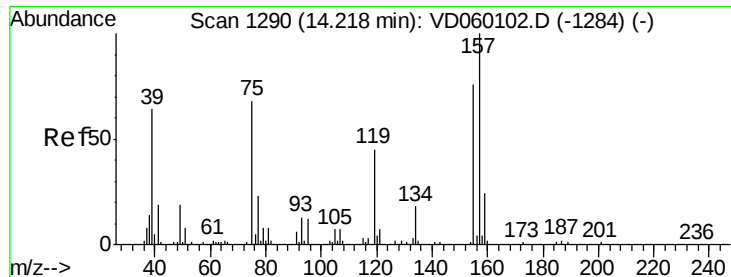
Tot Ion:105 Resp: 21309
Ion Ratio Lower Upper
105 100
120 50.0 23.4 70.0



#86
p-Isopropyltoluene
Concen: 5.740 ug/l
RT: 13.33 min Scan# 1200
Delta R.T. -0.00 min
Lab File: VD060152.D
Acq: 9 Oct 2018 15:44

Tgt Ion:119 Resp: 57122
Ion Ratio Lower Upper
119 100
134 28.0 12.3 36.8
91 24.1 11.8 35.4





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.690 ug/l

RT: 14.21 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

Instrument :

MSVOA_D

ClientSampleId :

OILY-DEBRIS

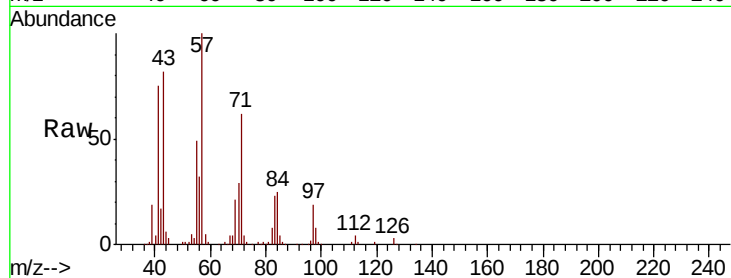
Tot Ion: 75 Resp: 906

Ion Ratio Lower Upper

75 100

155 0.0 55.9 167.7#

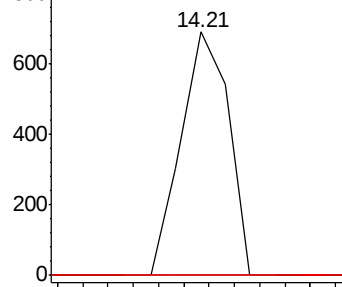
157 0.0 73.3 219.8#



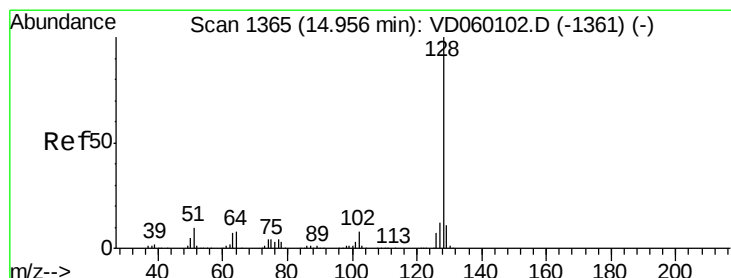
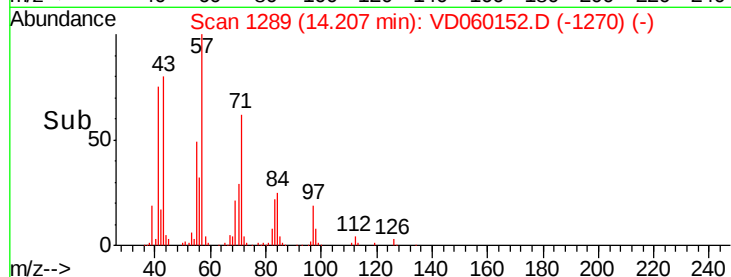
Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



Time--> 14.15 14.20 14.25



#95

Naphthalene

Concen: 5.201 ug/l

RT: 14.95 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VD060152.D

Acq: 9 Oct 2018 15:44

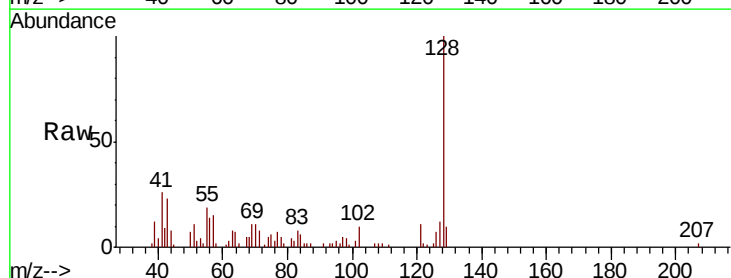
Tgt Ion:128 Resp: 32187

Ion Ratio Lower Upper

128 100

127 12.3 9.9 14.9

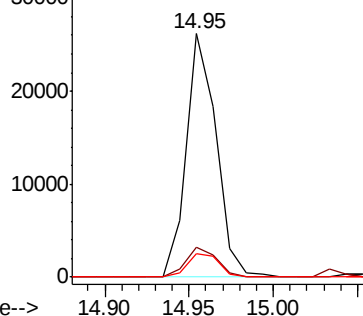
129 9.7 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 14.90 14.95 15.00

