

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058015.D
 Acq On : 8 Jun 2018 13:56
 Operator : VA/AP
 Sample : J3320-01
 Misc : 6.16g/5ml/MSVOA D/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 08 23:55:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

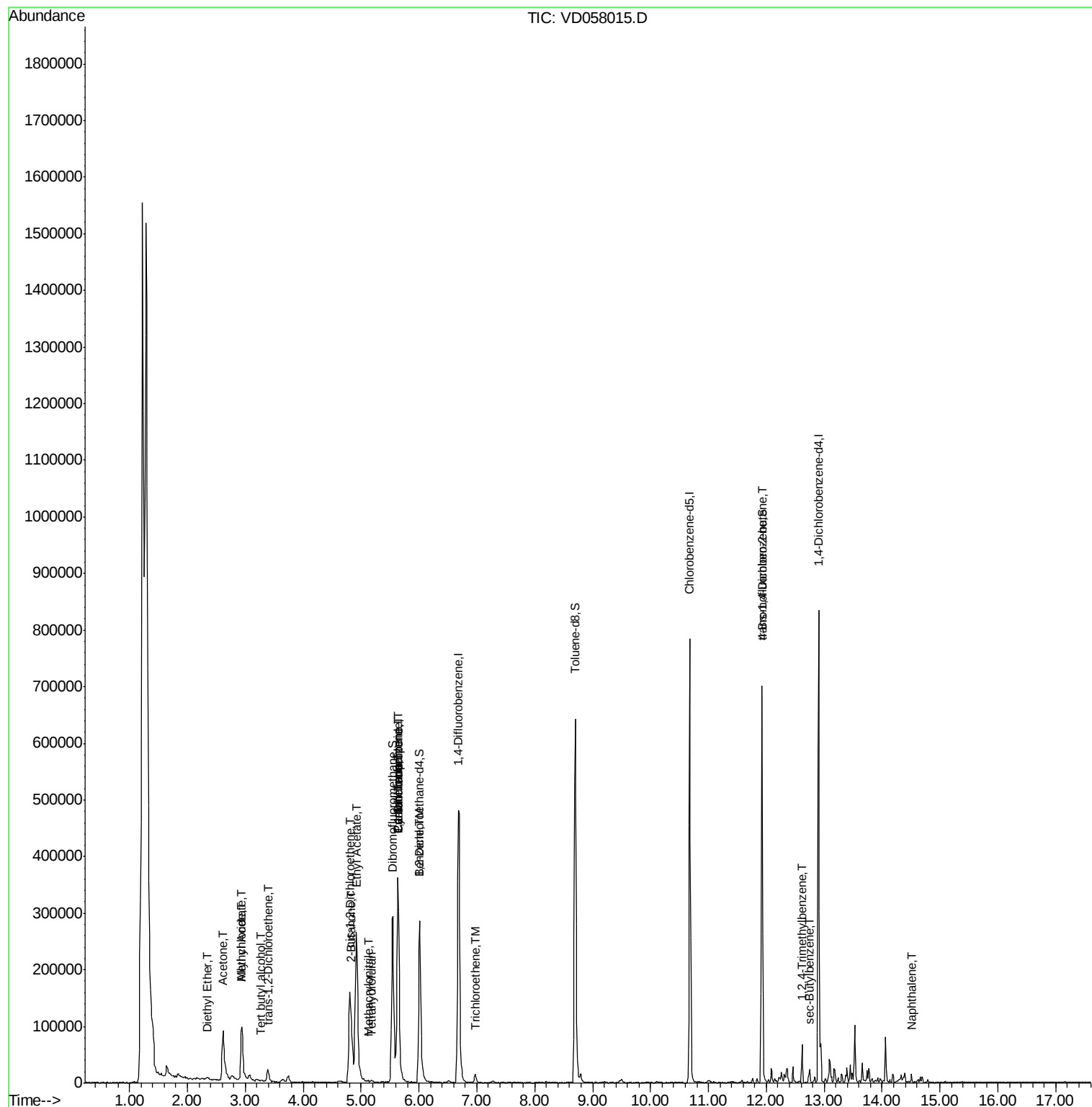
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	355414	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	503650	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	357014	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	182785	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.01	65	282669	79.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	159.10%	
35) Dibromofluoromethane	5.54	113	243633	62.52	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	125.04%	
50) Toluene-d8	8.70	98	501199	54.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.20%	
62) 4-Bromofluorobenzene	11.92	95	209853	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.35	74	1432	2.480	ug/l	68
11) Tert butyl alcohol	3.26	59	2602	27.336	ug/l #	74
14) Allyl chloride	2.94	41	5711	1.737	ug/l #	28
16) Acetone	2.62	43	190495	372.113	ug/l	95
18) Methyl Acetate	2.94	43	194610	196.514	ug/l	97
20) Methylene Chloride	3.07	84	3591	Below Cal	#	88
21) trans-1,2-Dichloroethene	3.39	96	9830	3.096	ug/l #	70
25) 2-Butanone	4.83	43	78111	67.139	ug/l	97
27) cis-1,2-Dichloroethene	4.80	96	80929	21.492	ug/l	90
29) Tetrahydrofuran	5.18	42	2304	3.778	ug/l #	46
31) Cyclohexane	5.63	56	10584	1.713	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	29090	5.242	ug/l #	51
37) Ethyl Acetate	4.92	43	528371	174.509	ug/l	99
38) Carbon Tetrachloride	5.64	117	29368	5.370	ug/l #	16
40) Benzene	6.01	78	13506	1.042	ug/l #	88
41) Methacrylonitrile	5.13	41	1858	1.342	ug/l #	50
44) Trichloroethene	6.98	130	6534	1.726	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.92	75	95949	141.088	ug/l #	6
82) 4-Chlorotoluene	12.32	91	2967	Below Cal		91
84) 1,2,4-Trimethylbenzene	12.62	105	26423	2.603	ug/l	98
85) sec-Butylbenzene	12.74	105	12985	1.009	ug/l	85
89) n-Butylbenzene	13.19	91	5190	Below Cal		99
95) Naphthalene	14.51	128	6178	1.047	ug/l #	87

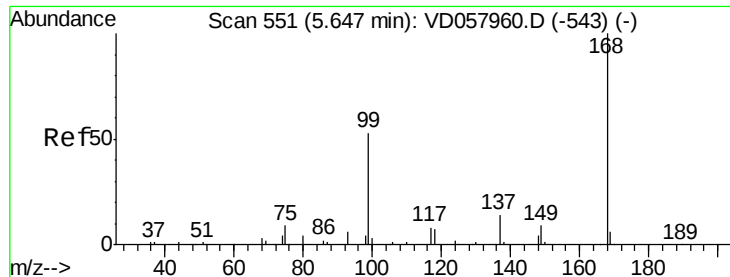
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

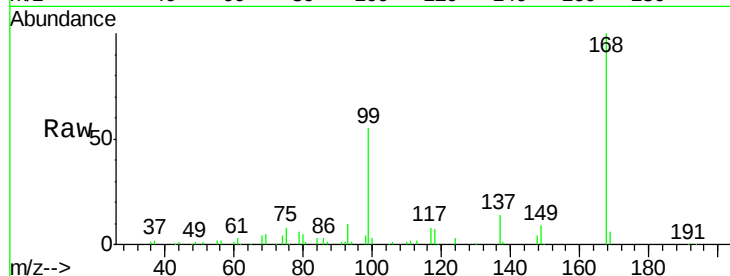
ClientSampleId :

Tot Ion:168 Resp: 355414

Ion Ratio Lower Upper

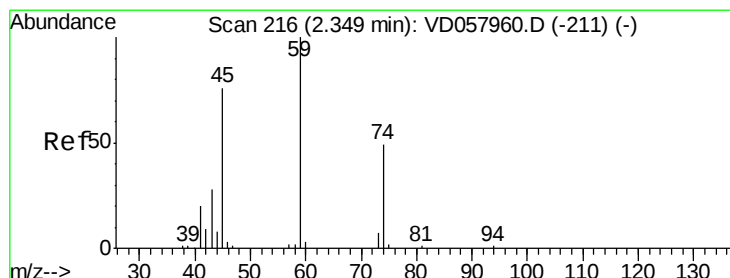
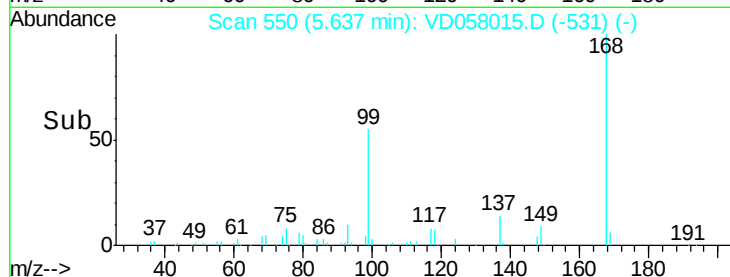
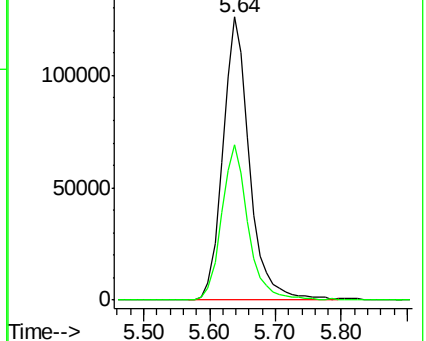
168 100

99 55.1 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 2.480 ug/l

RT: 2.35 min Scan# 216

Delta R.T. -0.00 min

Lab File: VD058015.D

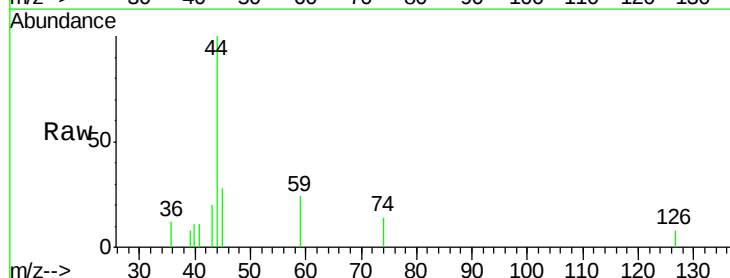
Acq: 8 Jun 2018 13:56

Tgt Ion: 74 Resp: 1432

Ion Ratio Lower Upper

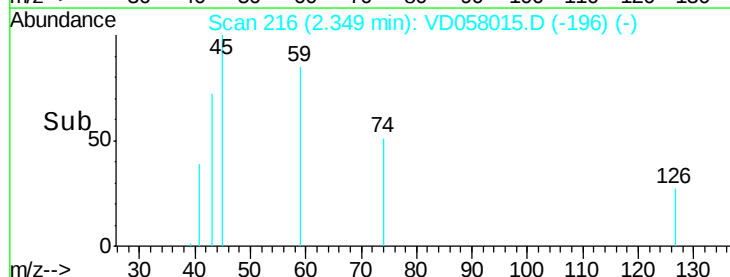
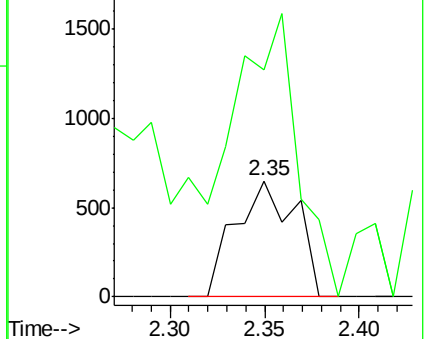
74 100

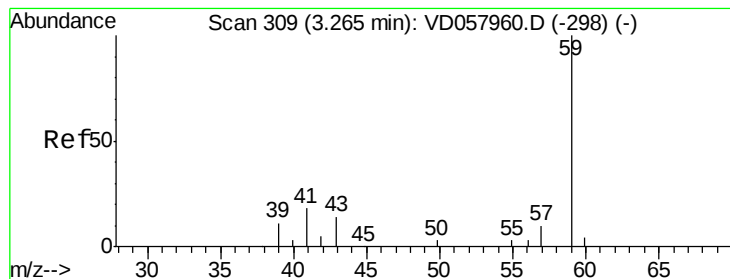
45 195.2 77.1 231.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



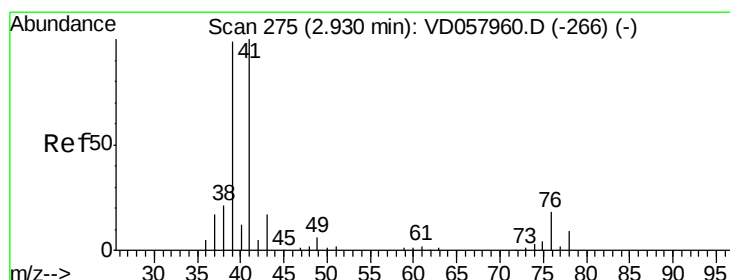
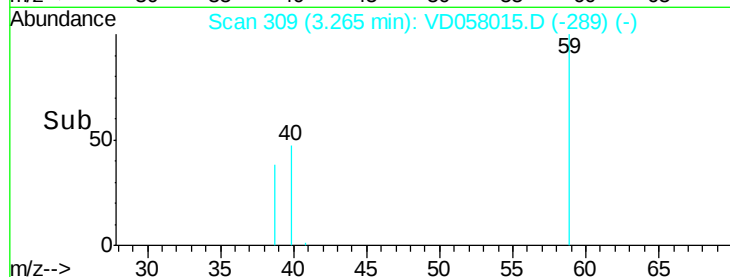
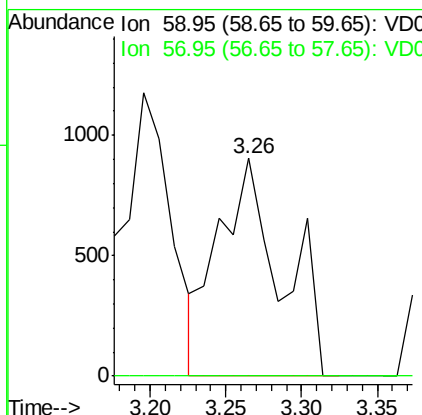
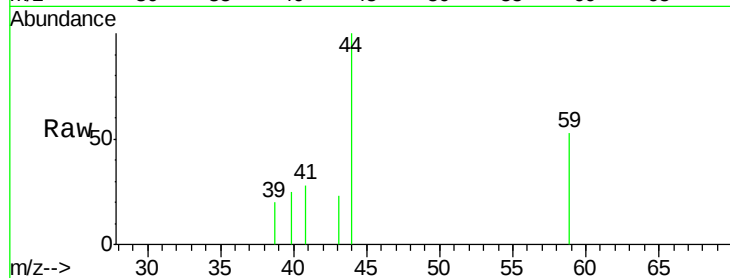


#11

Tert butyl alcohol
 Concen: 27.336 ug/l
 RT: 3.26 min Scan# 309
 Delta R.T. -0.00 min
 Lab File: VD058015.D
 Acq: 8 Jun 2018 13:56

Instrument :
 MSVOA_D
 ClientSampleId :

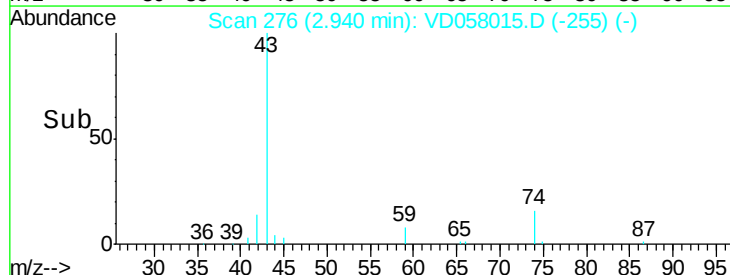
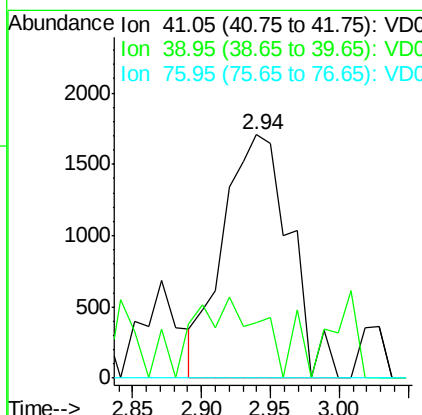
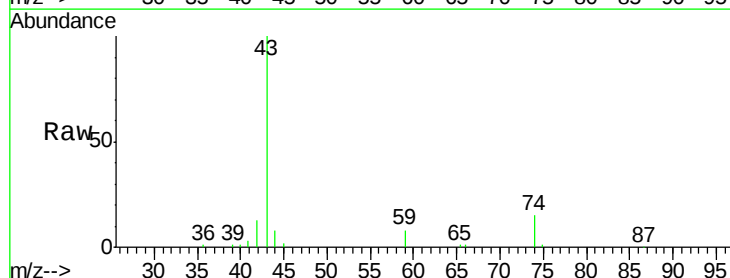
Tot Ion: 59 Resp: 2602
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

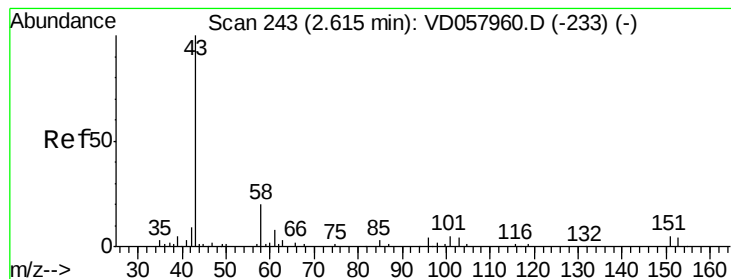


#14

Allyl chloride
 Concen: 1.737 ug/l
 RT: 2.94 min Scan# 276
 Delta R.T. 0.01 min
 Lab File: VD058015.D
 Acq: 8 Jun 2018 13:56

Tgt Ion: 41 Resp: 5711
 Ion Ratio Lower Upper
 41 100
 39 22.5 79.5 119.3#
 76 0.0 20.7 31.1#





#16

Acetone

Concen: 372.113 ug/l

RT: 2.62 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

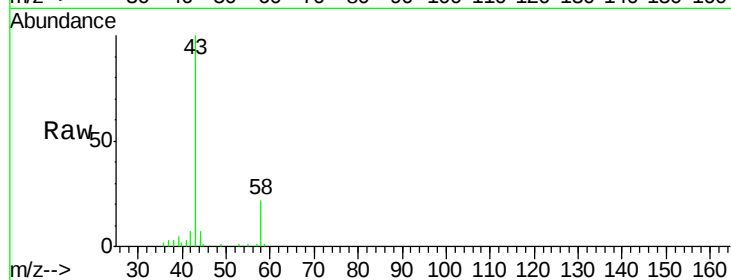
ClientSampleId :

Tot Ion: 43 Resp: 190495

Ion Ratio Lower Upper

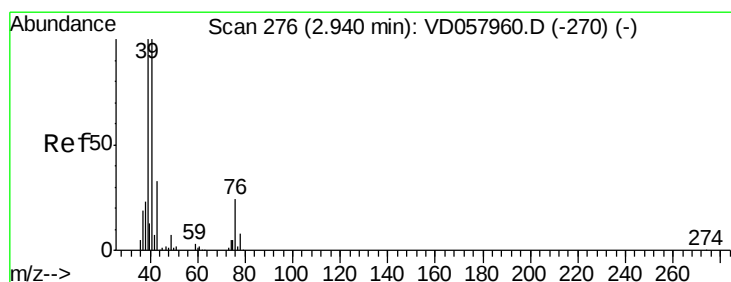
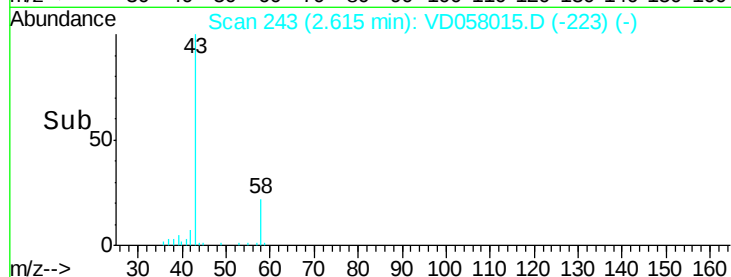
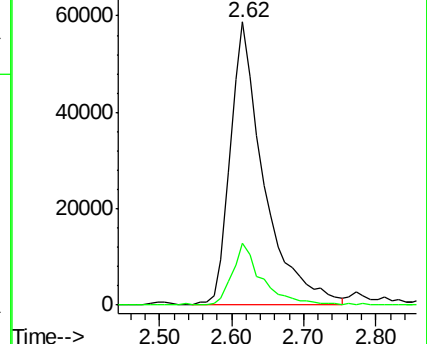
43 100

58 22.0 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 196.514 ug/l

RT: 2.94 min Scan# 276

Delta R.T. -0.00 min

Lab File: VD058015.D

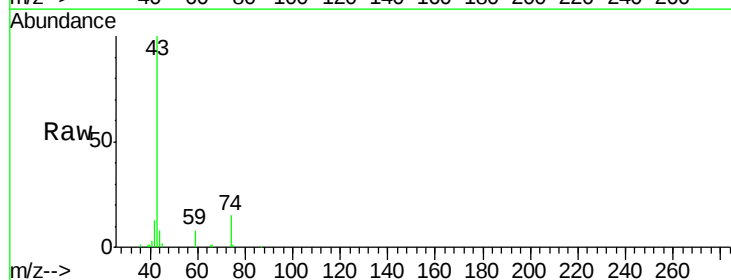
Acq: 8 Jun 2018 13:56

Tgt Ion: 43 Resp: 194610

Ion Ratio Lower Upper

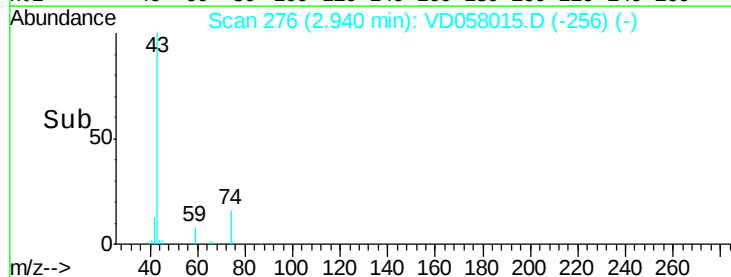
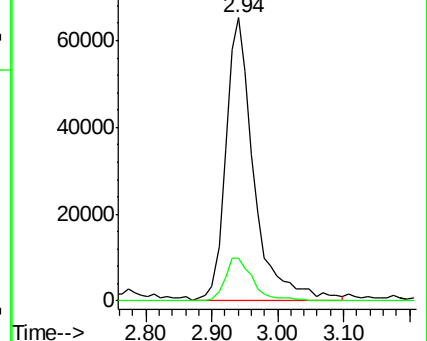
43 100

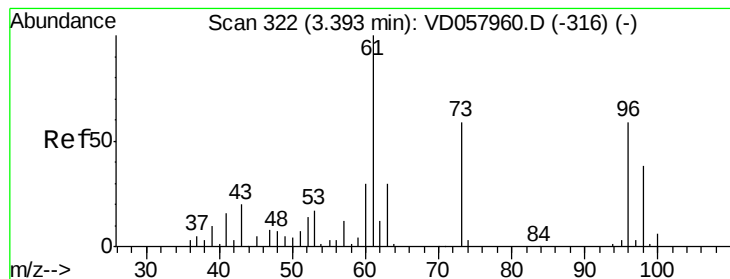
74 15.3 11.2 16.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#21

trans-1,2-Dichloroethene

Concen: 3.096 ug/l

RT: 3.39 min Scan# 322

Delta R.T. -0.00 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :
MSVOA_D
ClientSampleId :

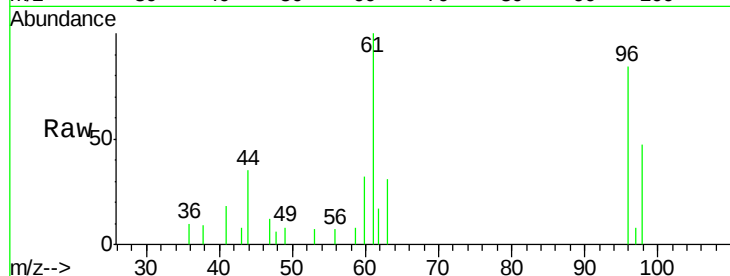
Tot Ion: 96 Resp: 9830

Ion Ratio Lower Upper

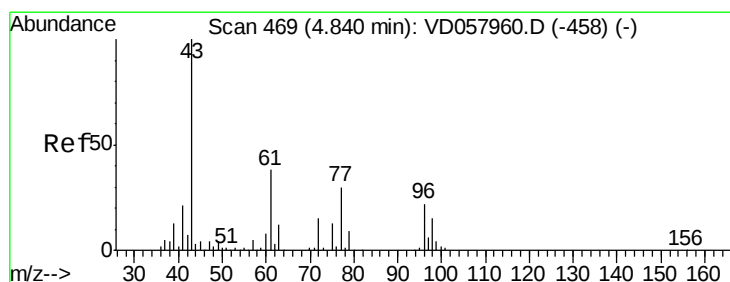
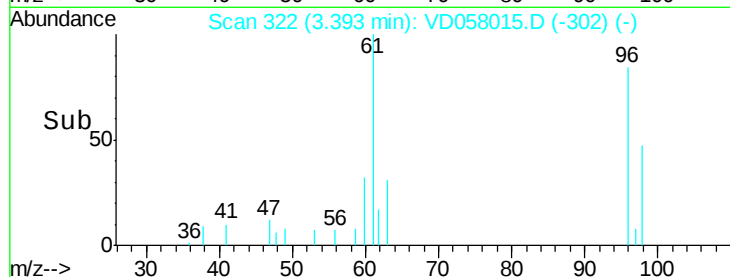
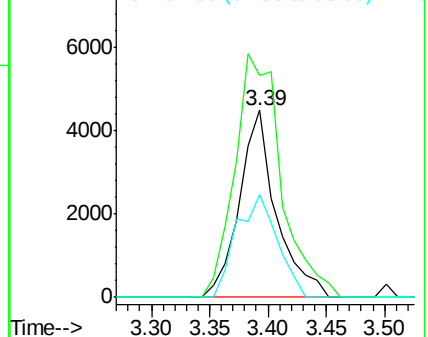
96 100

61 118.9 135.2 202.8#

98 55.3 51.7 77.5



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#25

2-Butanone

Concen: 67.139 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058015.D

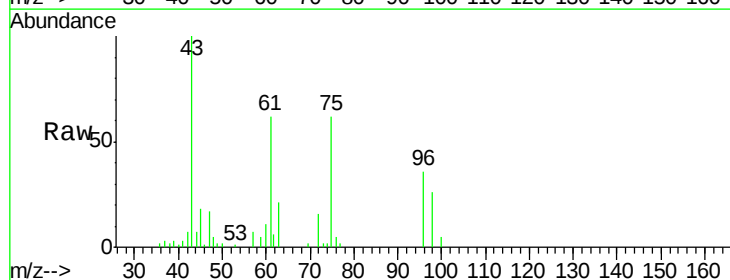
Acq: 8 Jun 2018 13:56

Tgt Ion: 43 Resp: 78111

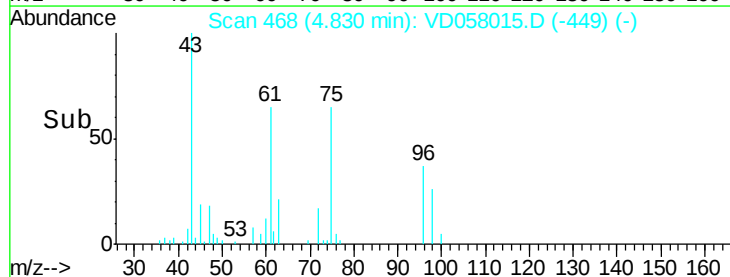
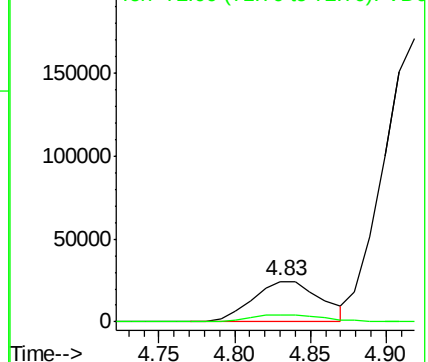
Ion Ratio Lower Upper

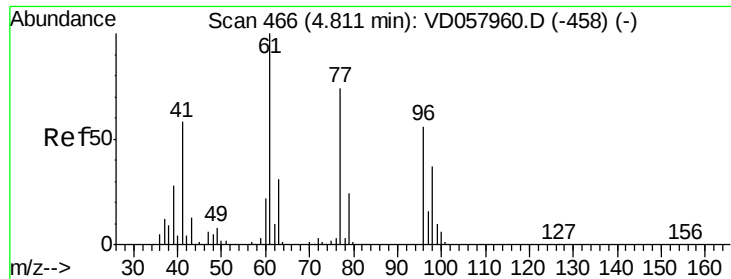
43 100

72 16.2 12.0 18.0



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



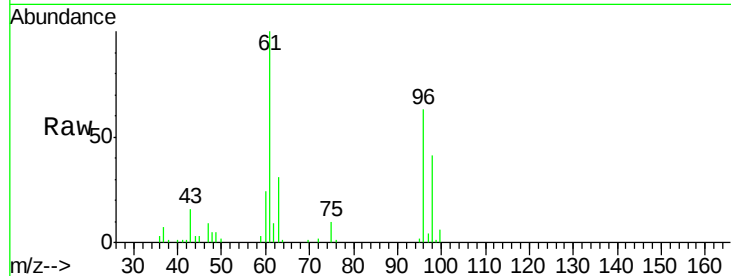


#27

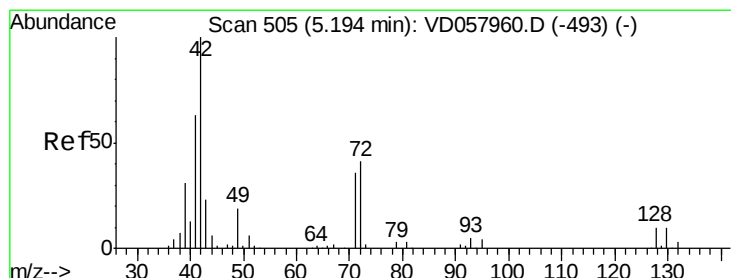
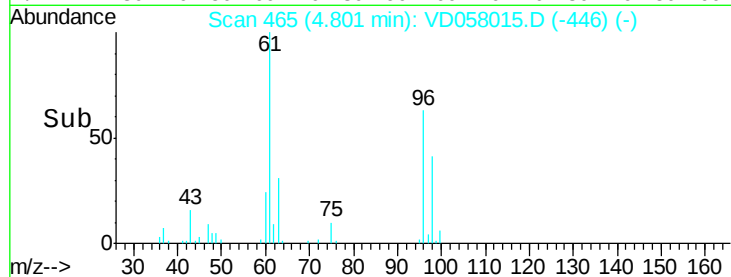
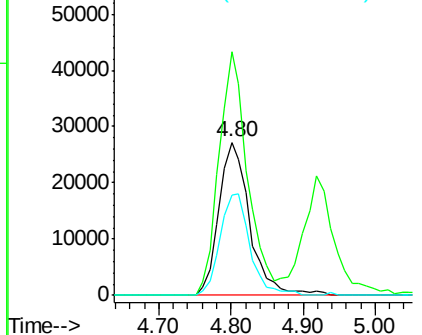
cis-1,2-Dichloroethene
 Concen: 21.492 ug/l
 RT: 4.80 min Scan# 465
 Delta R.T. -0.01 min
 Lab File: VD058015.D
 Acq: 8 Jun 2018 13:56

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	96	Resp	80929
Ion	Ratio	Lower	Upper
96	100		
61	159.1	0.0	355.0
98	65.8	0.0	129.6



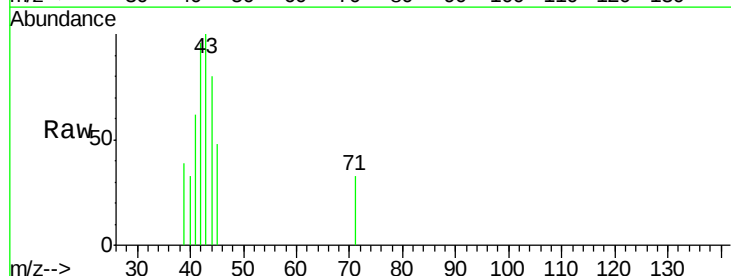
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



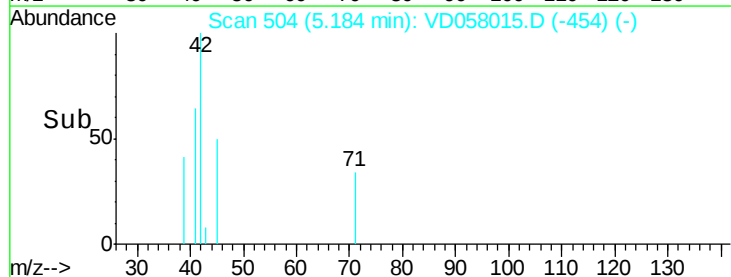
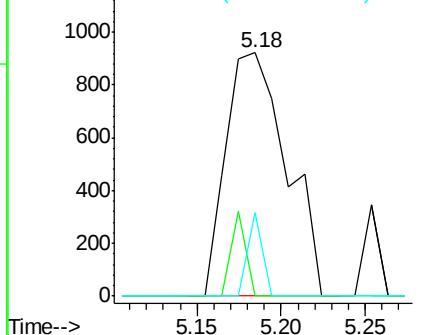
#29

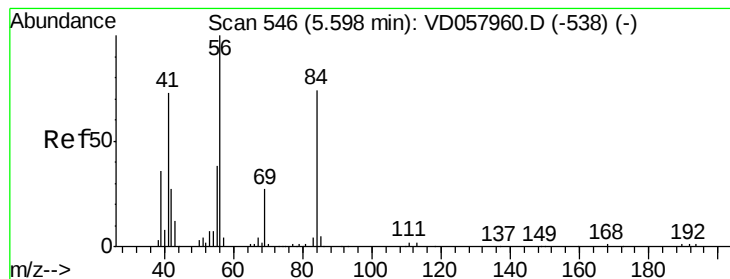
Tetrahydrofuran
 Concen: 3.778 ug/l
 RT: 5.18 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VD058015.D
 Acq: 8 Jun 2018 13:56

Tgt Ion	42	Resp	2304
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.5	42.7#
71	8.1	27.9	41.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC
 Ion 72.00 (71.70 to 72.70): VDC
 Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.713 ug/l

RT: 5.63 min Scan# 549

Delta R.T. 0.03 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

ClientSampleId :

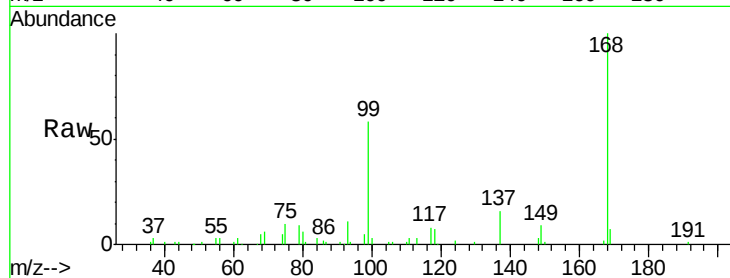
Tot Ion: 56 Resp: 10584

Ion Ratio Lower Upper

56 100

69 193.9 21.5 32.3#

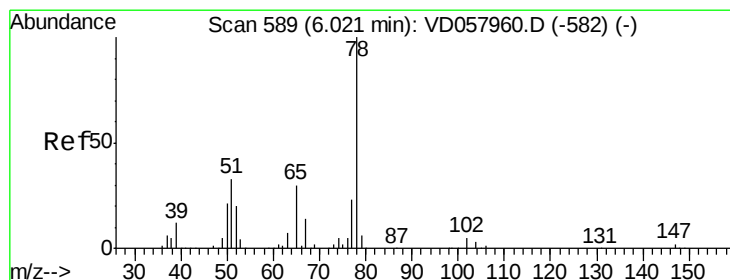
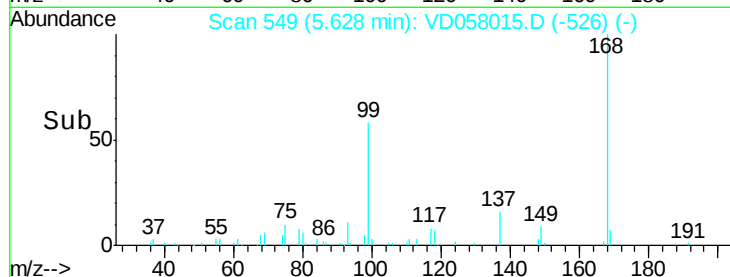
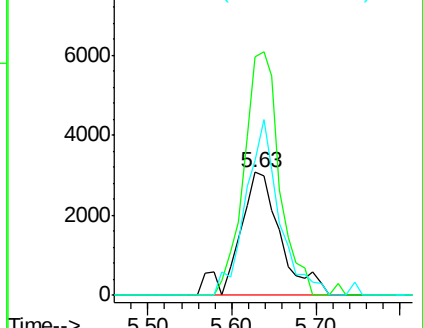
84 109.6 61.0 91.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058015.D

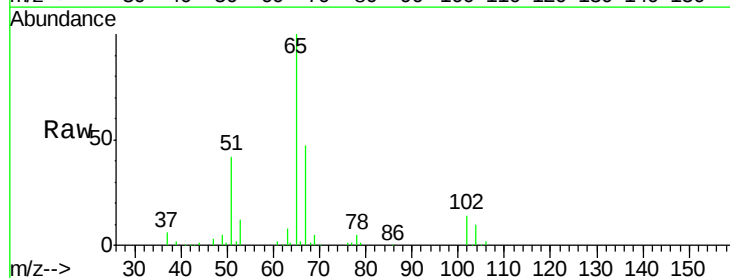
Acq: 8 Jun 2018 13:56

Tgt Ion: 65 Resp: 282669

Ion Ratio Lower Upper

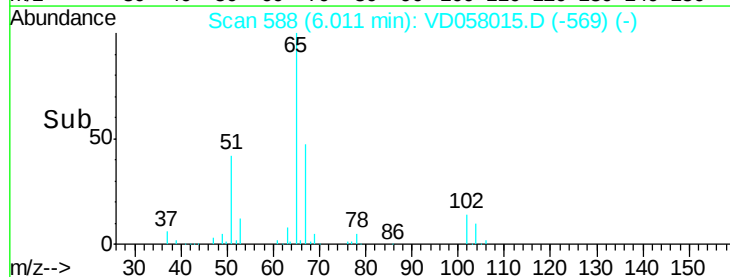
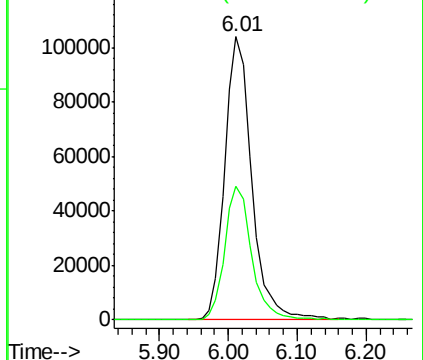
65 100

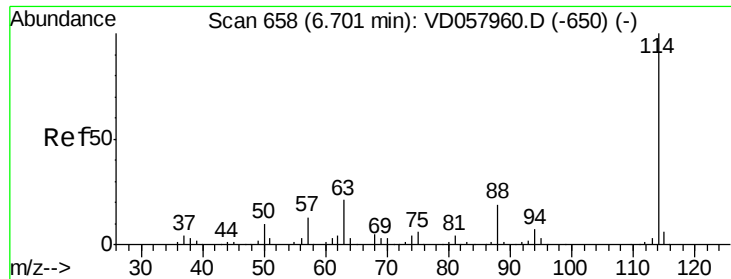
67 47.4 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

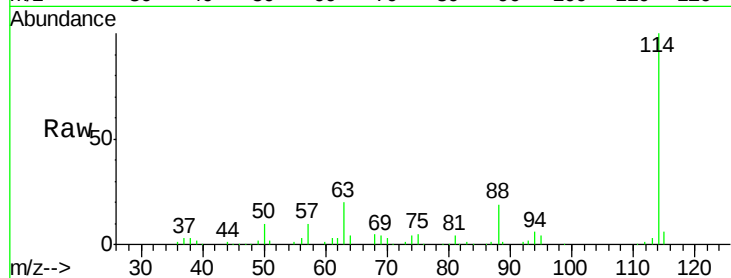




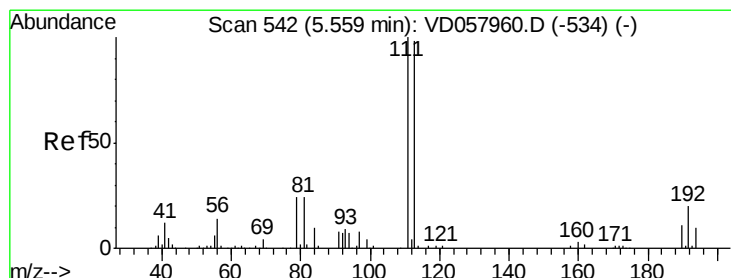
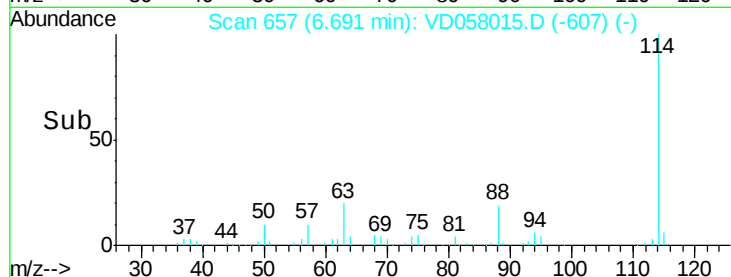
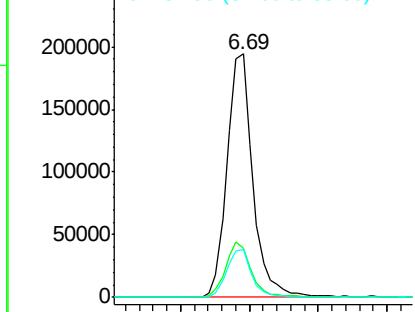
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VD058015.D
 Acq: 8 Jun 2018 13:56

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:114 Resp: 503650
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.8
 88 19.5 0.0 37.8

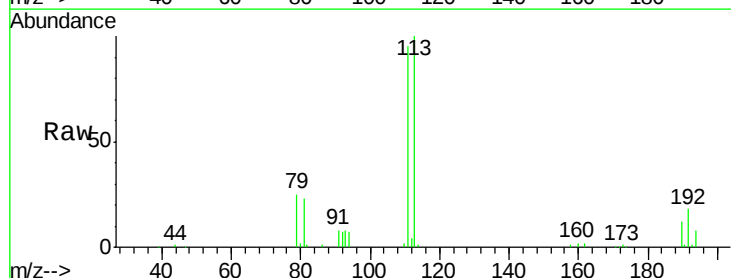


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

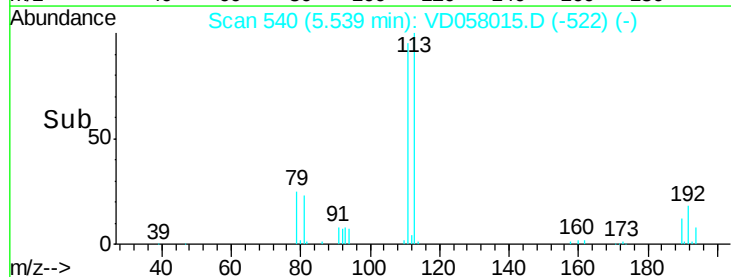
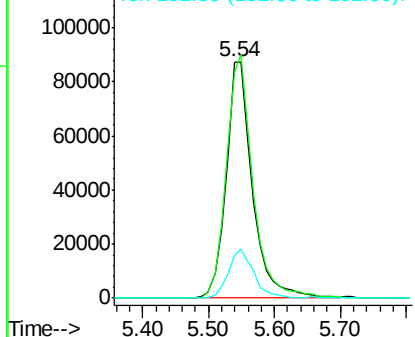


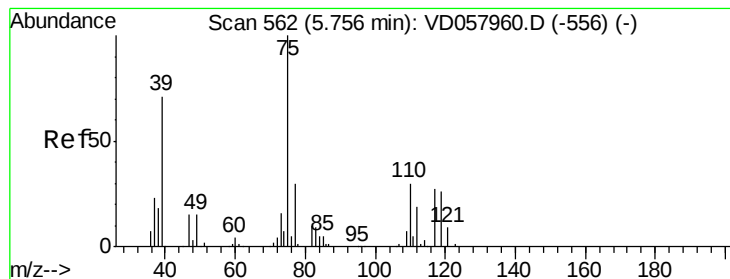
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.02 min
 Lab File: VD058015.D
 Acq: 8 Jun 2018 13:56

Tgt Ion:113 Resp: 243633
 Ion Ratio Lower Upper
 113 100
 111 95.4 81.5 122.3
 192 18.3 16.4 24.6



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: 5.242 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.13 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

ClientSampleId :

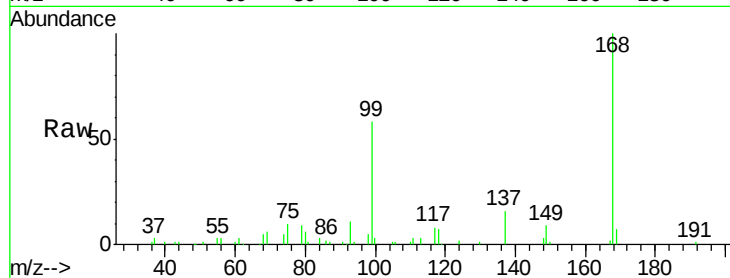
Tot Ion: 75 Resp: 29090

Ion Ratio Lower Upper

75 100

110 6.2 14.8 44.3#

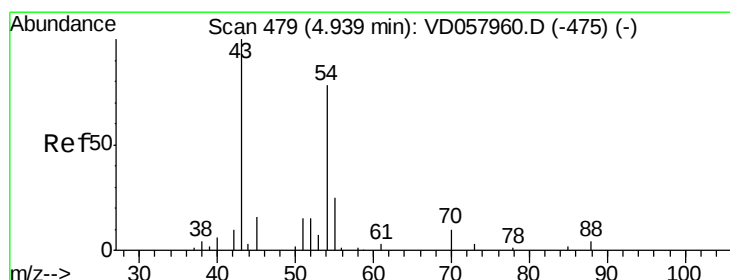
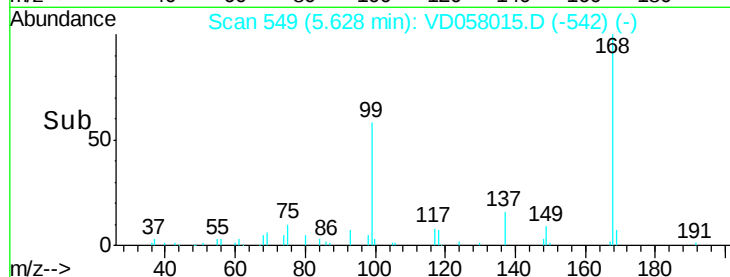
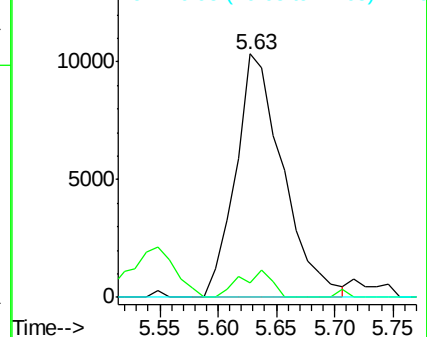
77 0.0 23.9 35.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 174.509 ug/l

RT: 4.92 min Scan# 477

Delta R.T. -0.02 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

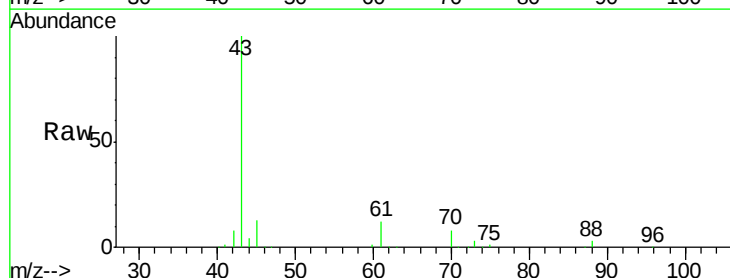
Tgt Ion: 43 Resp: 528371

Ion Ratio Lower Upper

43 100

61 12.5 9.9 14.9

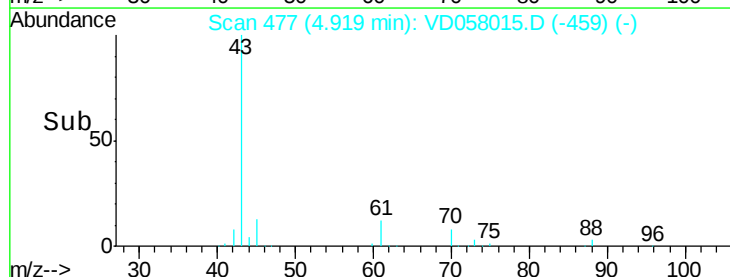
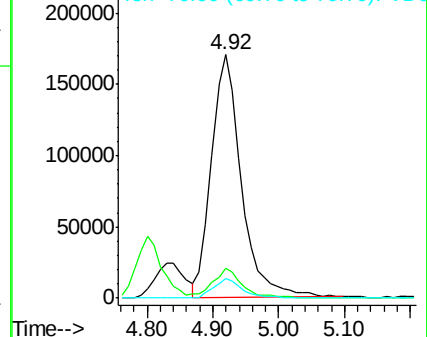
70 8.1 5.7 8.5

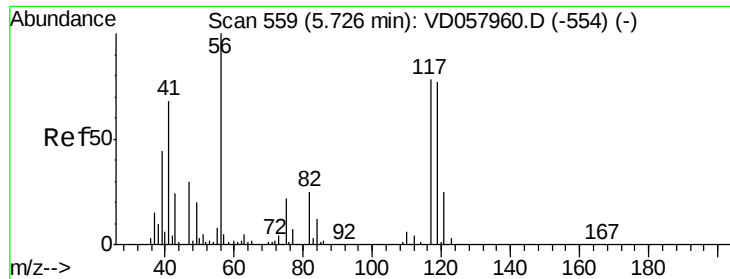


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.370 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

ClientSampleId :

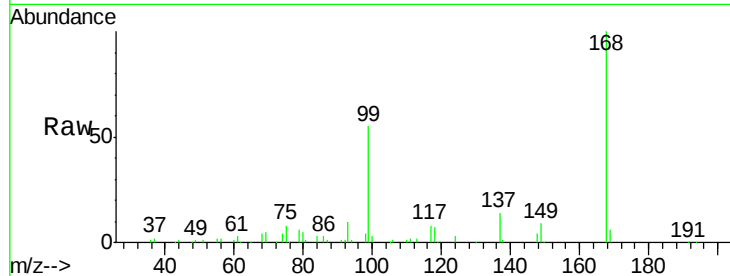
Tot Ion:117 Resp: 29368

Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

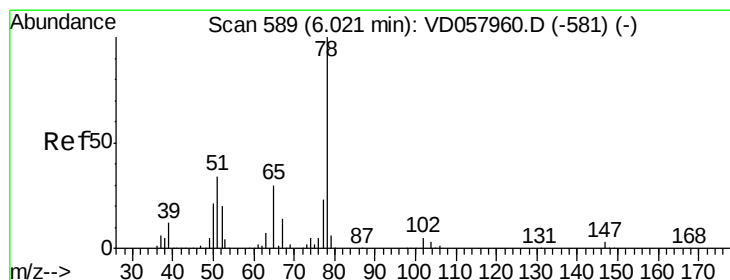
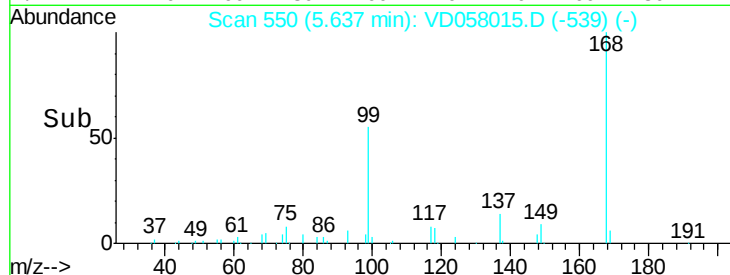
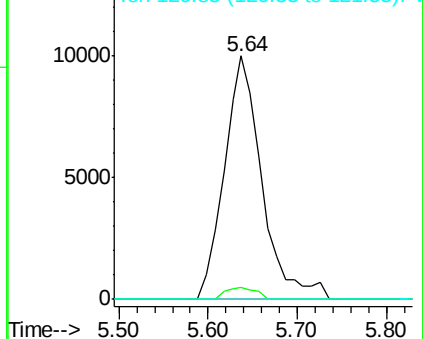
121 0.0 24.9 37.3#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#40

Benzene

Concen: 1.042 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058015.D

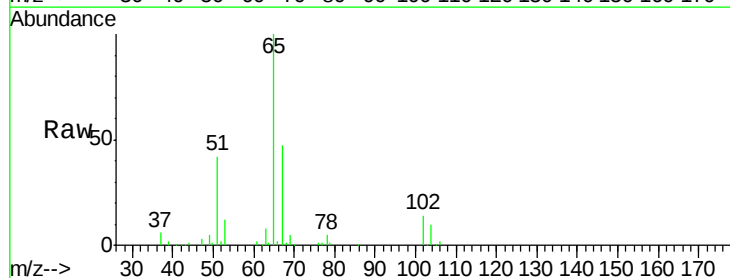
Acq: 8 Jun 2018 13:56

Tgt Ion: 78 Resp: 13506

Ion Ratio Lower Upper

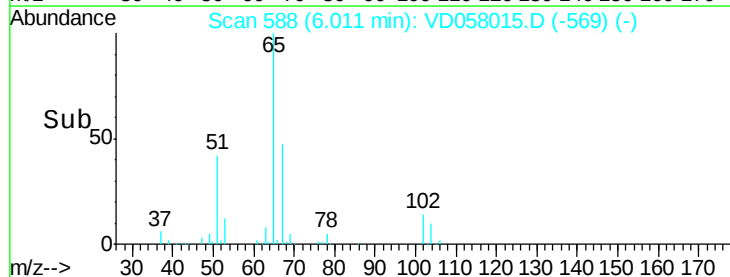
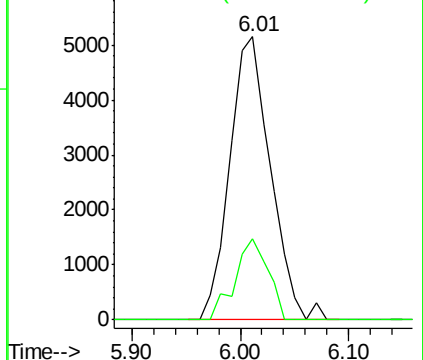
78 100

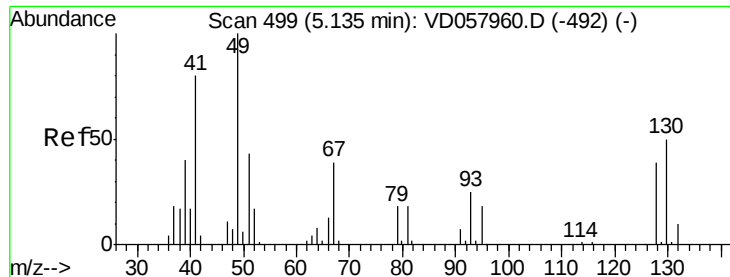
77 28.5 18.1 27.1#



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V





#41

Methacrylonitrile

Concen: 1.342 ug/l

RT: 5.13 min Scan# 498

Delta R.T. -0.01 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 41 Resp: 1858

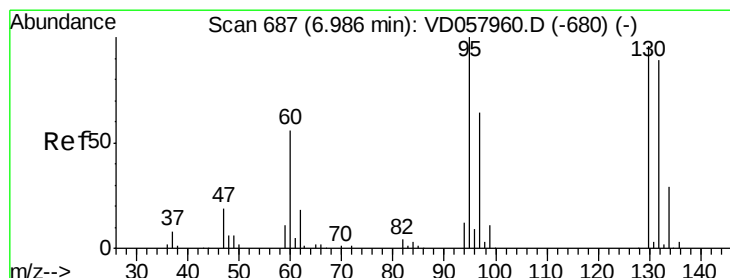
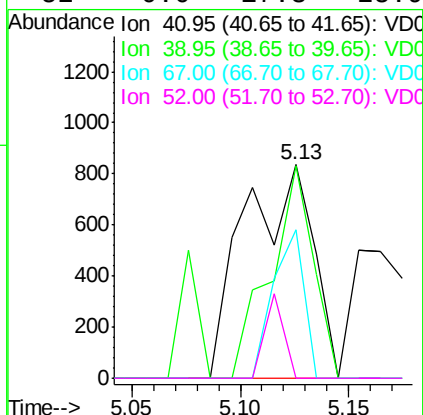
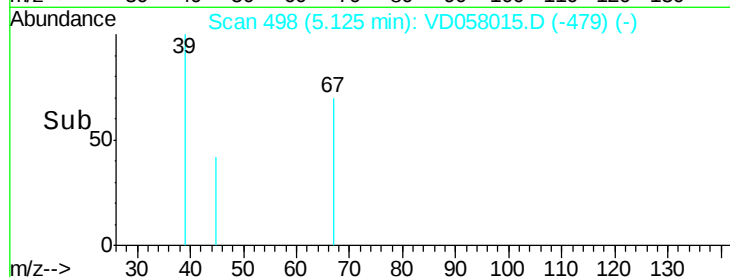
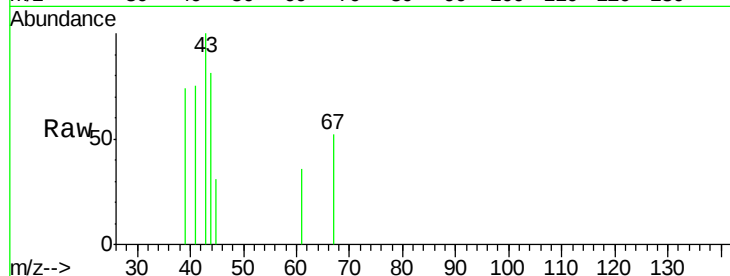
Ion Ratio Lower Upper

41 100

39 99.5 40.7 61.1#

67 69.7 38.8 58.2#

52 0.0 17.3 25.9#



#44

Trichloroethene

Concen: 1.726 ug/l

RT: 6.98 min Scan# 686

Delta R.T. -0.01 min

Lab File: VD058015.D

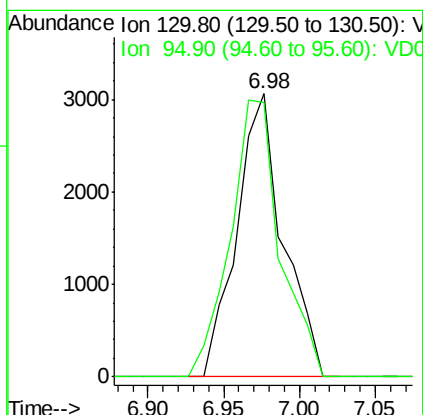
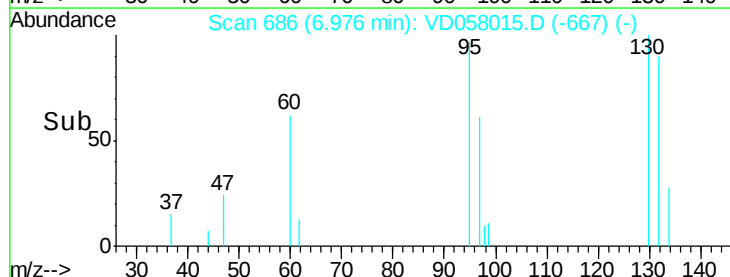
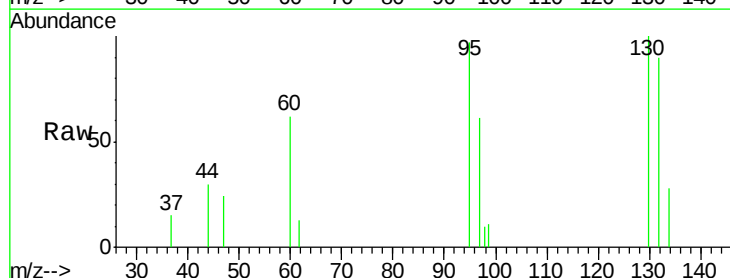
Acq: 8 Jun 2018 13:56

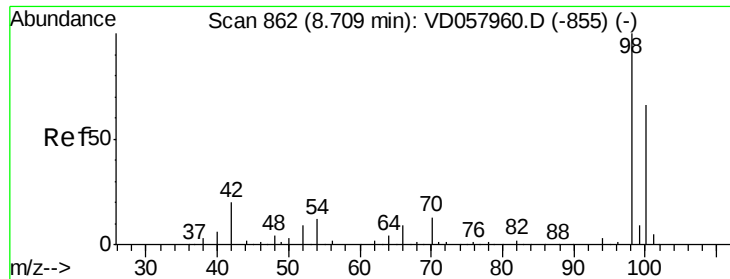
Tgt Ion:130 Resp: 6534

Ion Ratio Lower Upper

130 100

95 96.9 0.0 207.4

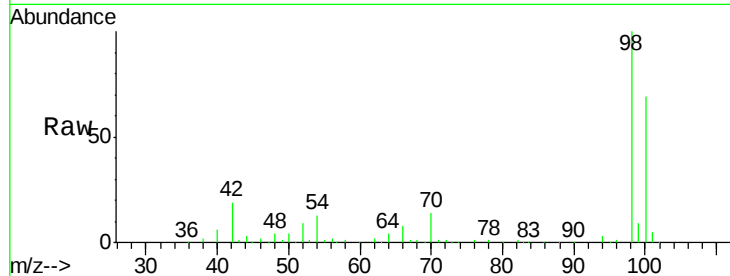




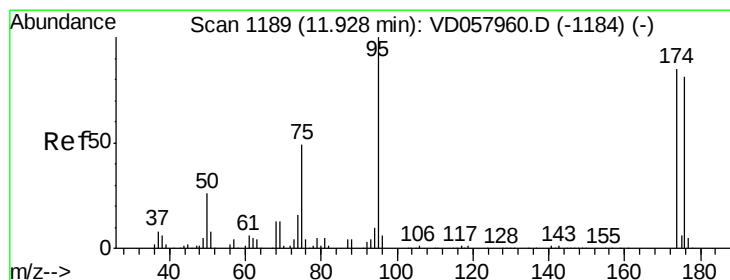
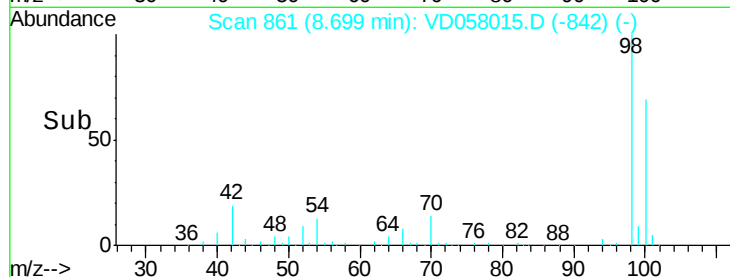
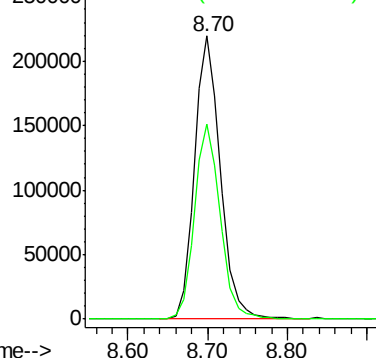
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 501199
Ion Ratio Lower Upper
98 100
100 69.0 53.4 80.0

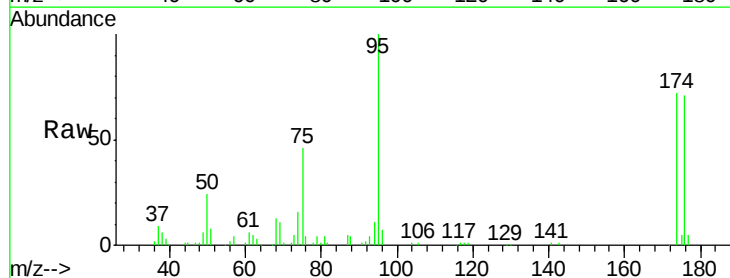


Abundance Ion 98.05 (97.75 to 98.75): VD057960.D (-855) (-)
Ion 100.05 (99.75 to 100.75): VD057960.D (-855) (-)

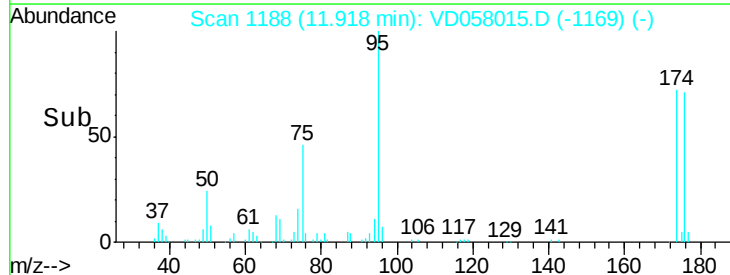
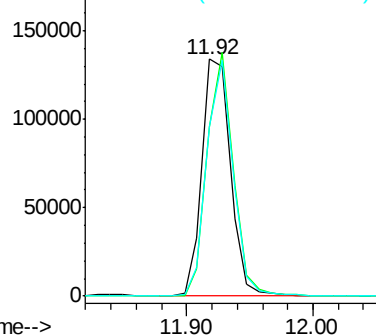


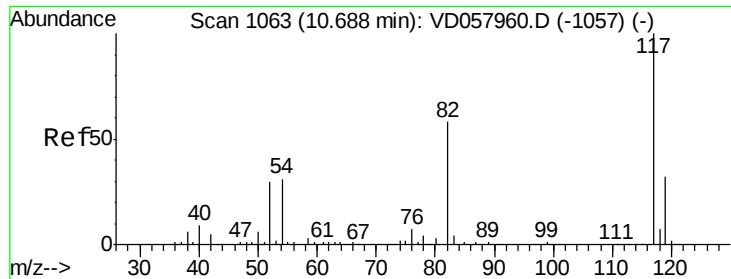
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Tgt Ion: 95 Resp: 209853
Ion Ratio Lower Upper
95 100
174 71.6 0.0 169.4
176 71.4 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): VD057960.D (-1184) (-)
Ion 173.90 (173.60 to 174.60): VD057960.D (-1184) (-)
Ion 175.90 (175.60 to 176.60): VD057960.D (-1184) (-)

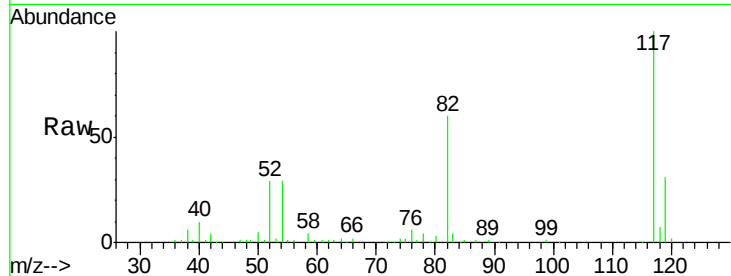




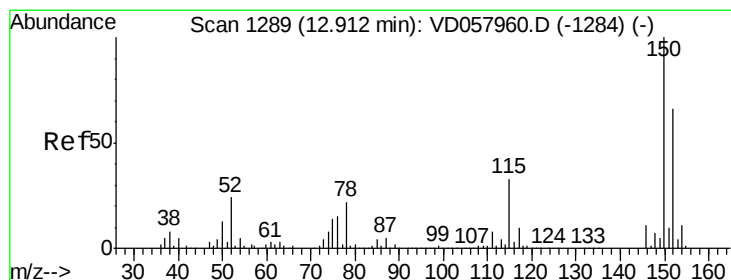
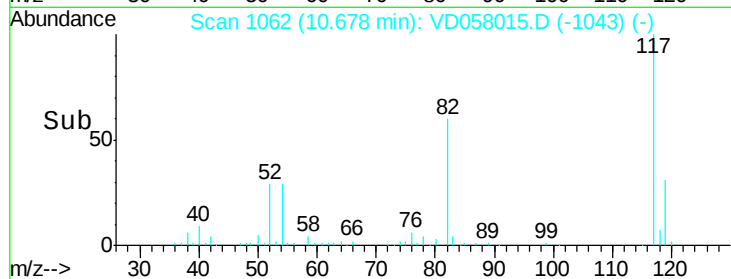
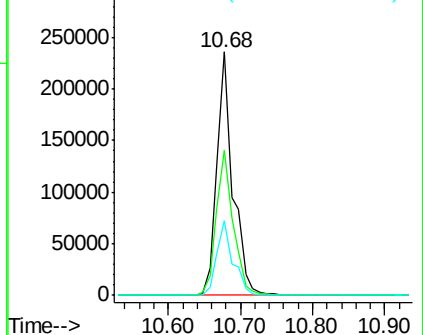
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 357014
Ion Ratio Lower Upper
117 100
82 59.8 46.8 70.2
119 30.5 25.8 38.6

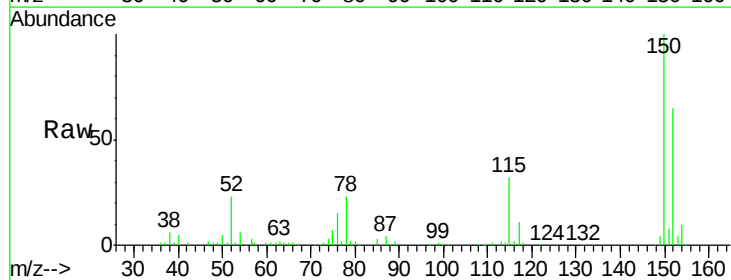


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

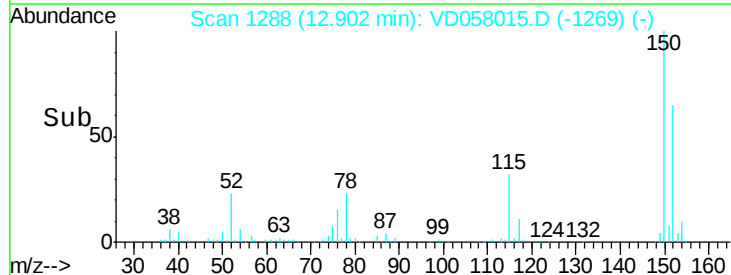
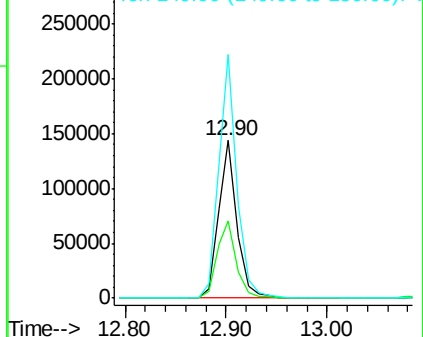


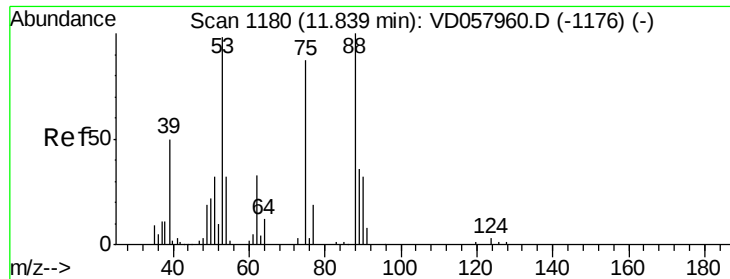
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Tgt Ion:152 Resp: 182785
Ion Ratio Lower Upper
152 100
115 49.1 25.6 76.6
150 154.3 0.0 306.8



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





#81

trans-1,4-Dichloro-2-butene

Concen: 141.088 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058015.D

Acq: 8 Jun 2018 13:56

Instrument :

MSVOA_D

ClientSampleId :

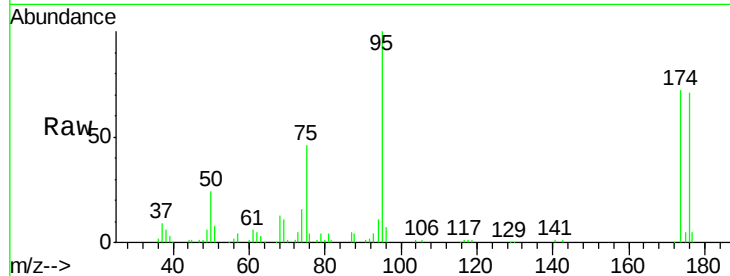
Tot Ion: 75 Resp: 95949

Ion Ratio Lower Upper

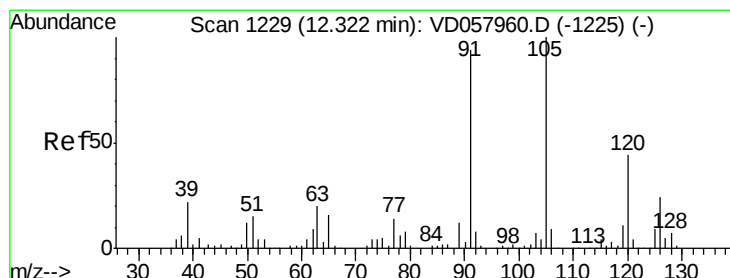
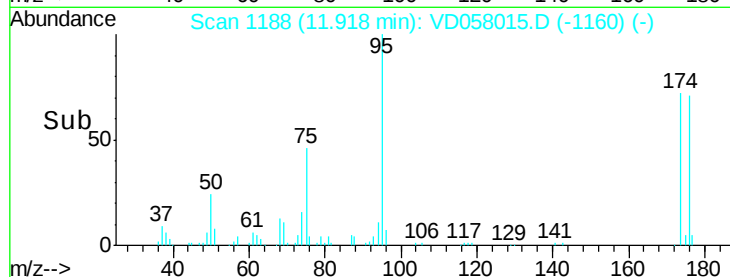
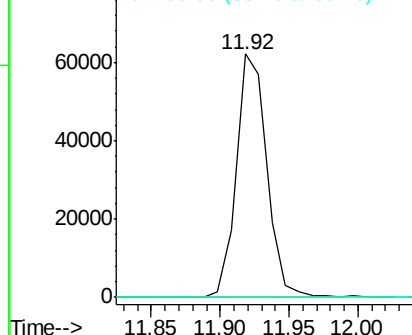
75 100

53 0.0 89.3 133.9#

89 0.0 33.3 49.9#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058015.D

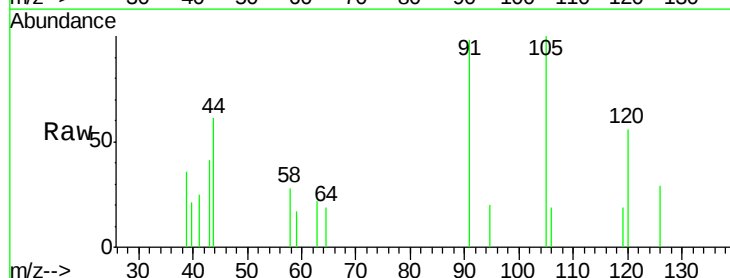
Acq: 8 Jun 2018 13:56

Tgt Ion: 91 Resp: 2967

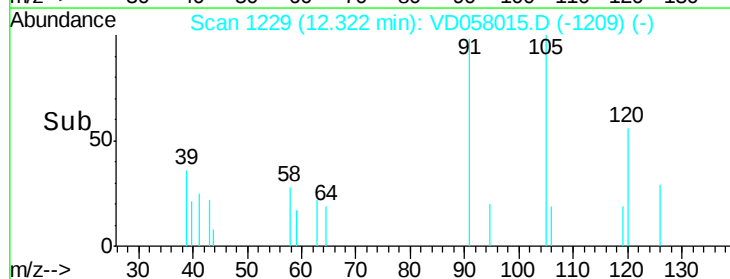
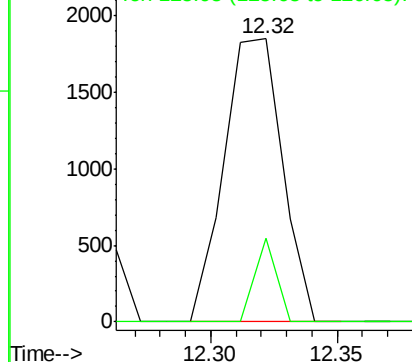
Ion Ratio Lower Upper

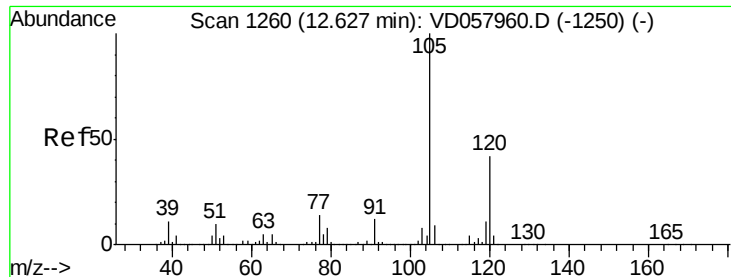
91 100

126 29.4 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

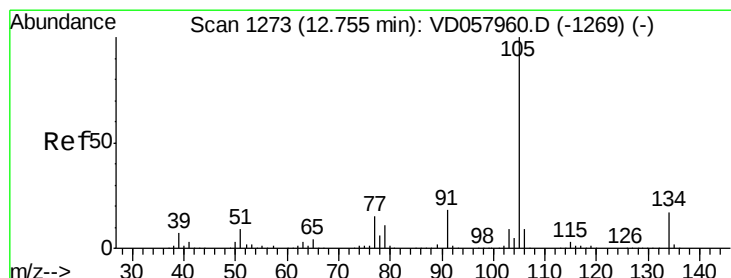
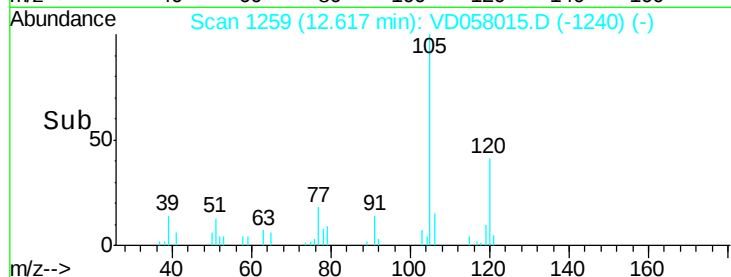
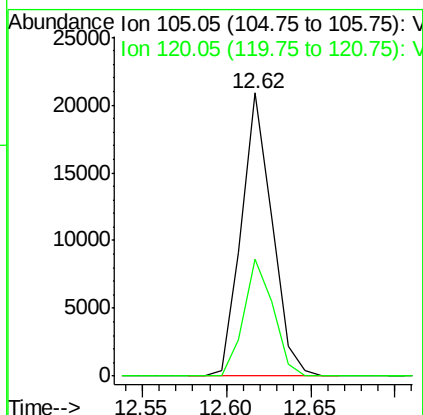
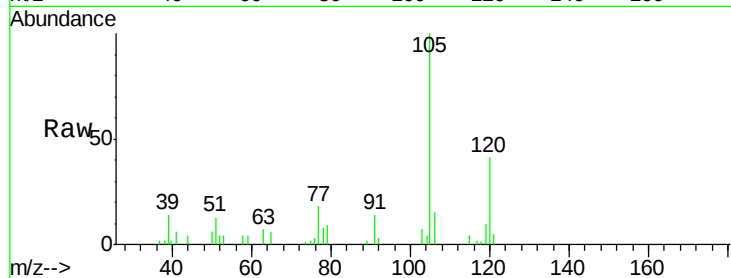




#84
1,2,4-Trimethylbenzene
Concen: 2.603 ug/l
RT: 12.62 min Scan# 1259
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

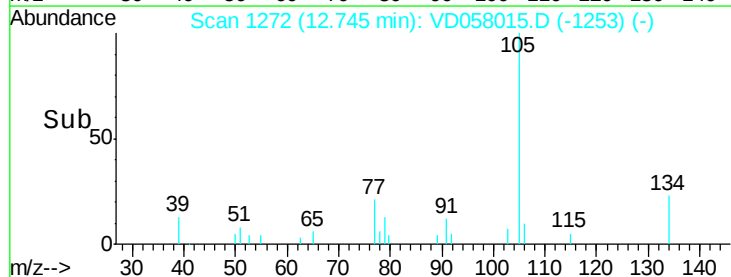
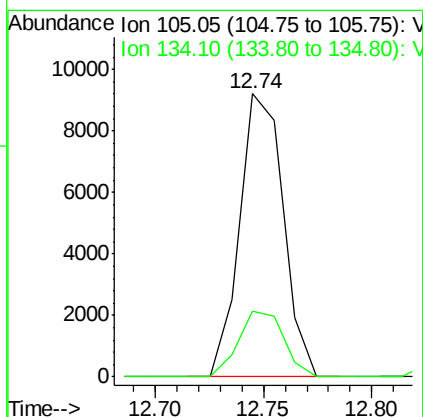
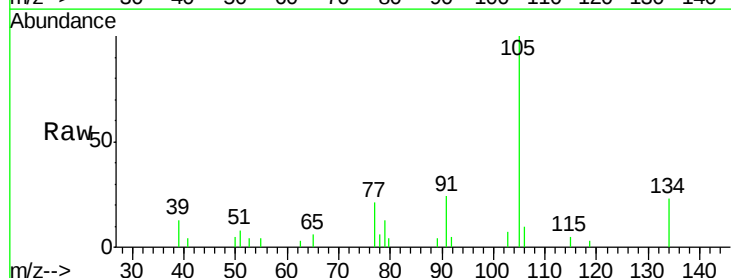
Instrument :
MSVOA_D
ClientSampleId :

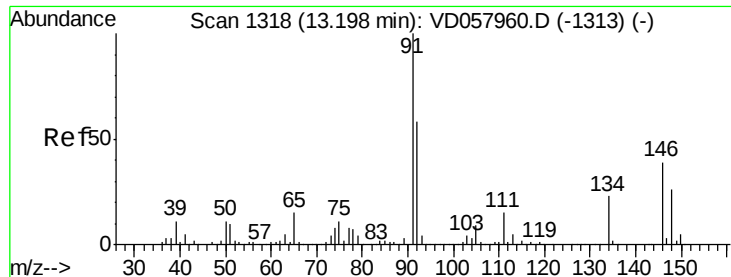
Tot Ion:105 Resp: 26423
Ion Ratio Lower Upper
105 100
120 41.4 21.2 63.6



#85
sec-Butylbenzene
Concen: 1.009 ug/l
RT: 12.74 min Scan# 1272
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Tgt Ion:105 Resp: 12985
Ion Ratio Lower Upper
105 100
134 23.3 8.3 25.1

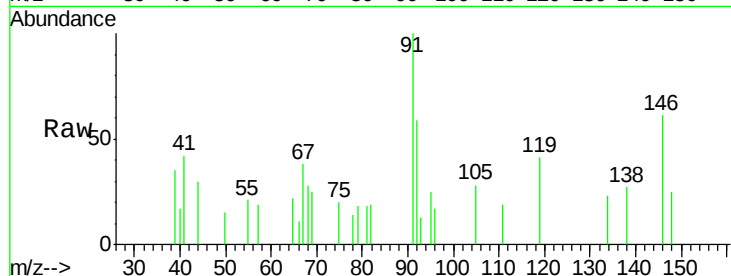




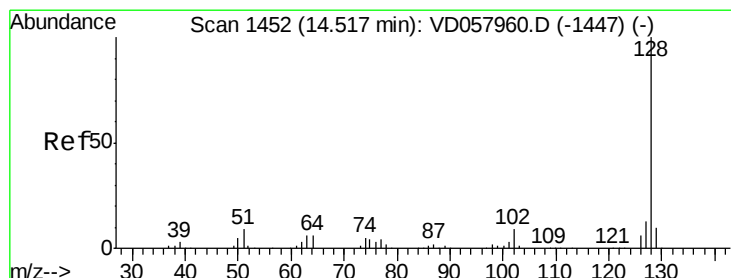
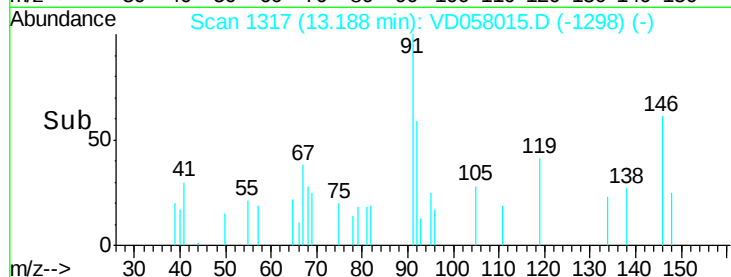
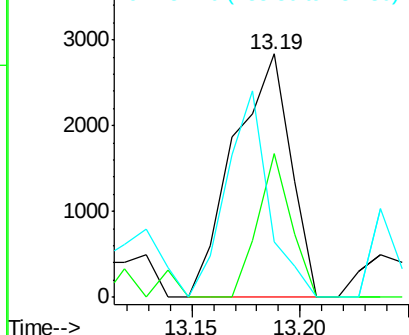
#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 5190
Ion Ratio Lower Upper
91 100
92 59.2 29.2 87.6
134 22.7 11.3 33.9

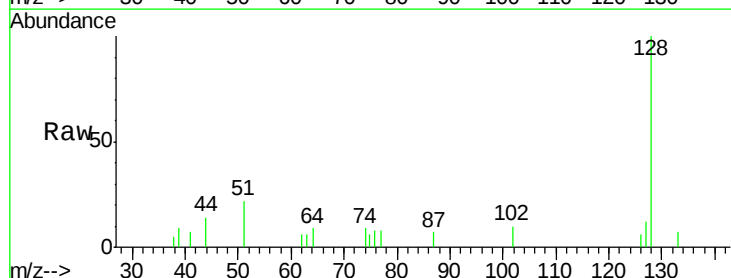


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.10 (133.80 to 134.80): V



#95
Naphthalene
Concen: 1.047 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058015.D
Acq: 8 Jun 2018 13:56

Tgt Ion: 128 Resp: 6178
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 0.0 8.2 12.2#



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

