

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081519\
 Data File : VD063615.D
 Acq On : 15 Aug 2019 19:39
 Operator : JC/SY
 Sample : K4356-11
 Misc : 4.15g/5ml/MSVOA_D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-6

Quant Time: Aug 16 01:06:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	581614	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.21	114	689502	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	312987	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	53071	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	250979	40.37	ug/l	-0.03
Spiked Amount			Recovery	=	80.74%	
35) Dibromofluoromethane	6.91	113	260322	44.83	ug/l	-0.03
Spiked Amount			Recovery	=	89.66%	
50) Toluene-d8	10.40	98	389965	30.54	ug/l	-0.03
Spiked Amount			Recovery	=	61.08%	
62) 4-Bromofluorobenzene	13.55	95	74396	12.86	ug/l	-0.02
Spiked Amount			Recovery	=	25.72%	

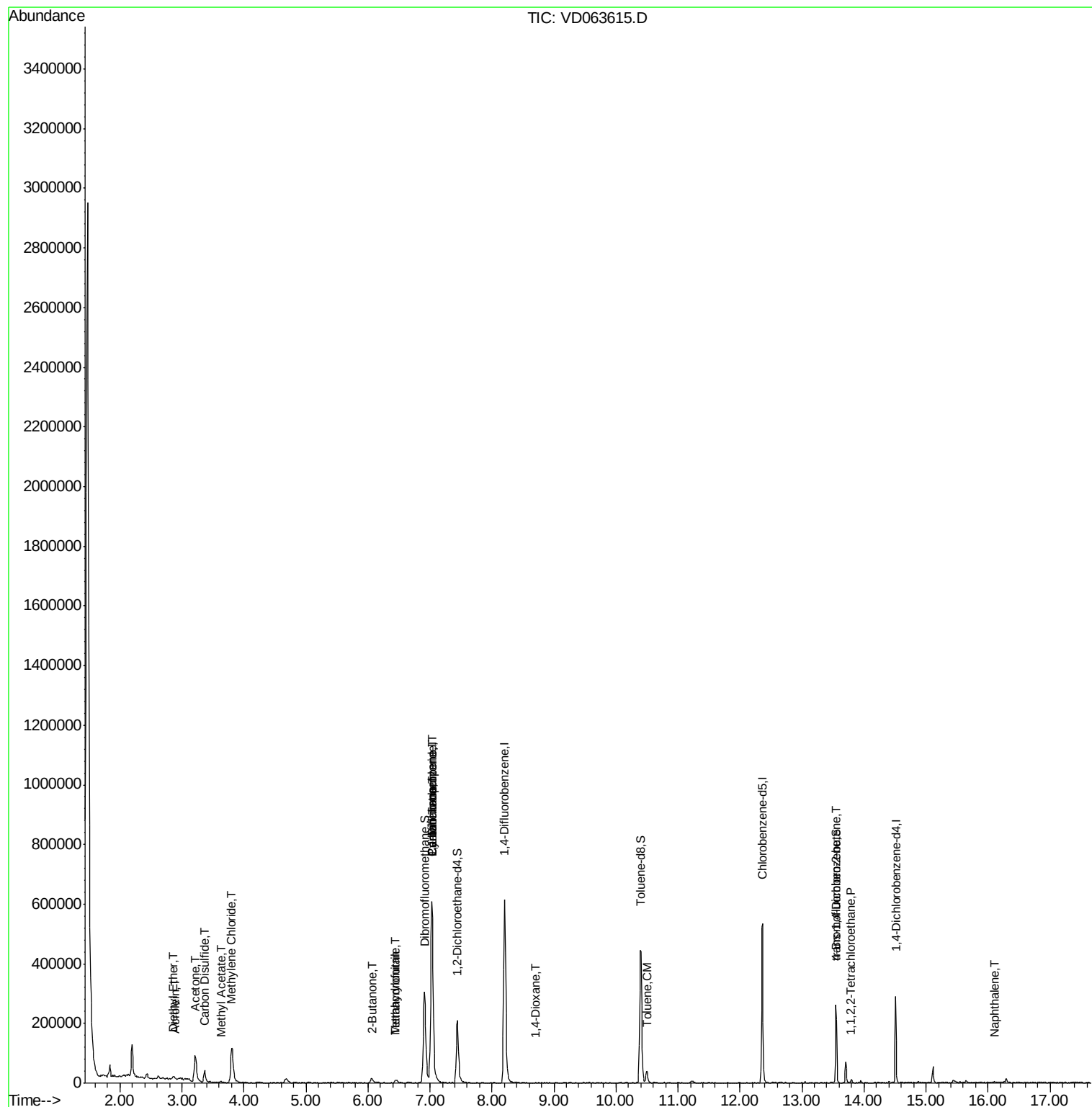
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	3706	2.452	ug/l	45
13) Acrolein	2.89	56	546	2.050	ug/l	85
16) Acetone	3.21	43	176234	139.448	ug/l	97
17) Carbon Disulfide	3.37	76	61473	4.145	ug/l #	90
18) Methyl Acetate	3.62	43	7042	2.942	ug/l #	57
20) Methylene Chloride	3.80	84	78352	14.338	ug/l	98
25) 2-Butanone	6.05	43	29755	23.839	ug/l #	85
29) Tetrahydrofuran	6.45	42	7217	12.409	ug/l #	78
31) Cyclohexane	7.03	56	13900	2.476	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	45413	7.450	ug/l #	48
38) Carbon Tetrachloride	7.03	117	61650	6.711	ug/l #	19
41) Methacrylonitrile	6.45	41	5199	1.617	ug/l #	80
49) 1,4-Dioxane	8.70	88	309	39.287	ug/l #	34
52) Toluene	10.50	92	20460	2.368	ug/l	93
75) 1,1,2,2-Tetrachloroethane	13.80	83	1001	1.787	ug/l #	26
81) trans-1,4-Dichloro-2-buten	13.55	75	31254	190.917	ug/l #	1
95) Naphthalene	16.12	128	1704	1.079	ug/l #	71

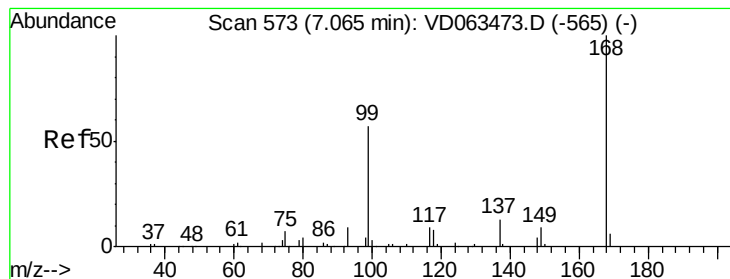
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

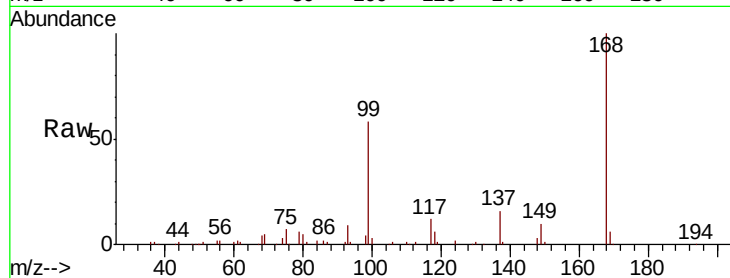
TP-6

Tgt Ion: 168 Resp: 581614

Ion Ratio Lower Upper

168 100

99 57.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

250000

200000

150000

100000

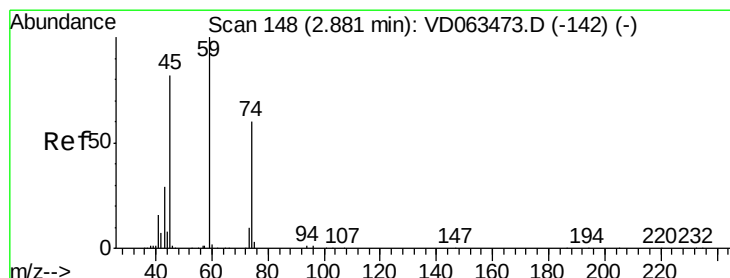
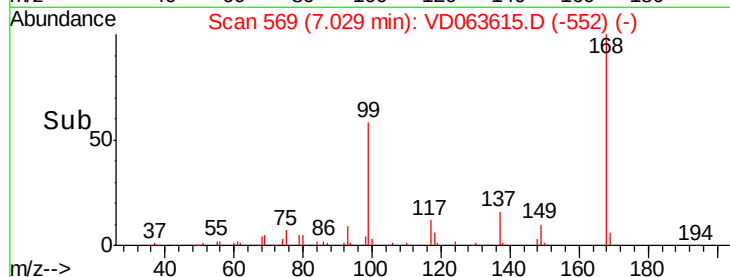
50000

0

7.03

6.90 7.00 7.10 7.20

Time-->



#8

Diethyl Ether

Concen: 2.452 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063615.D

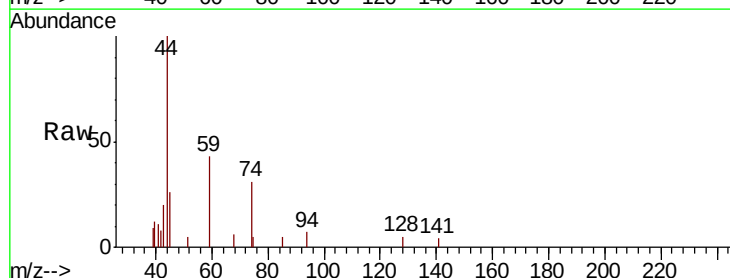
Acq: 15 Aug 2019 19:39

Tgt Ion: 74 Resp: 3706

Ion Ratio Lower Upper

74 100

45 71.3 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2500

2000

1500

1000

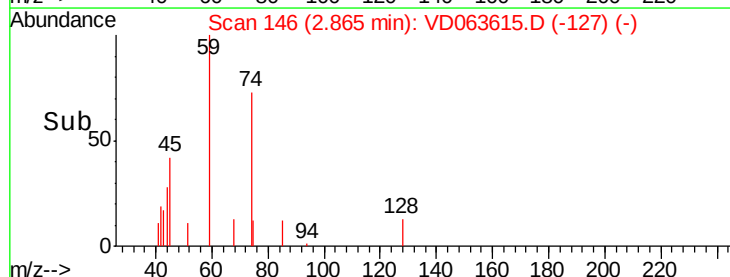
500

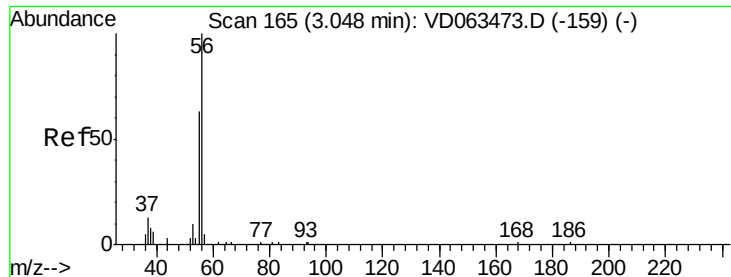
0

2.86

2.80 2.85 2.90

Time-->





#13

Acrolein

Concen: 2.050 ug/l

RT: 2.89 min Scan# 149

Delta R.T. -0.15 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

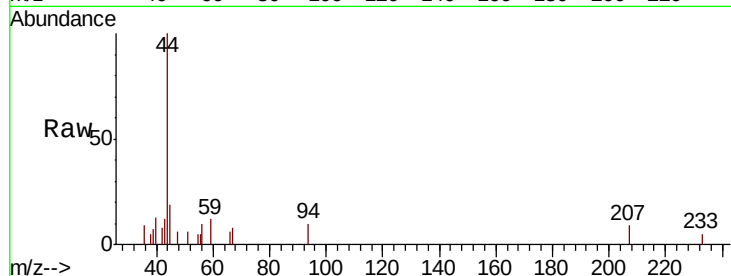
TP-6

Tgt Ion: 56 Resp: 546

Ion Ratio Lower Upper

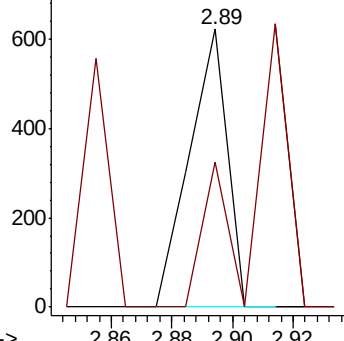
56 100

55 52.1 51.3 76.9

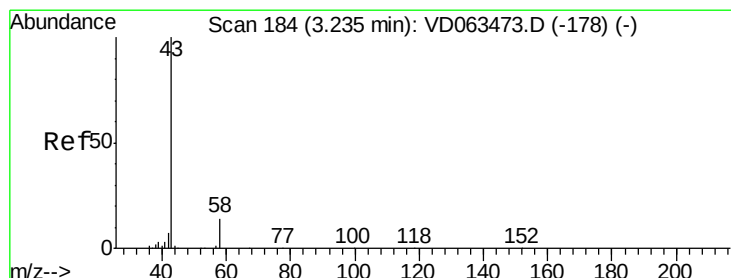
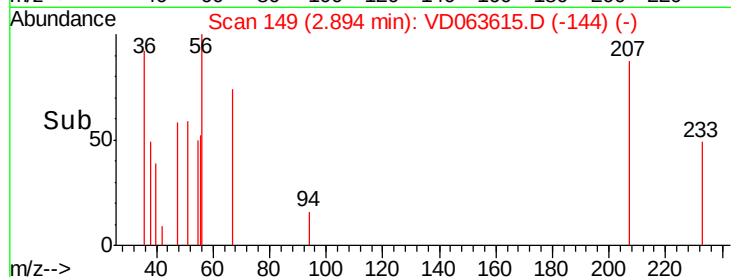


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#16

Acetone

Concen: 139.448 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063615.D

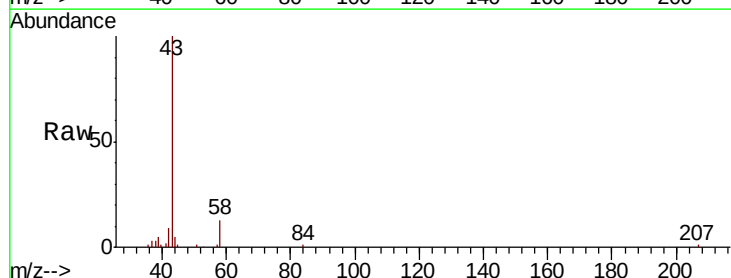
Acq: 15 Aug 2019 19:39

Tgt Ion: 43 Resp: 176234

Ion Ratio Lower Upper

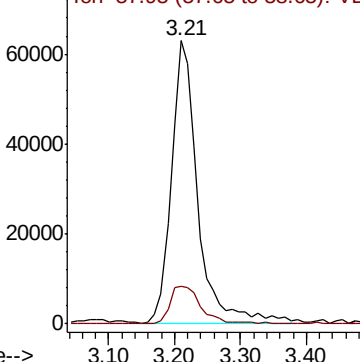
43 100

58 13.2 11.4 17.2

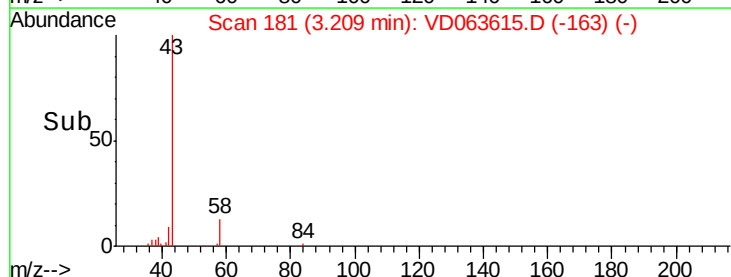


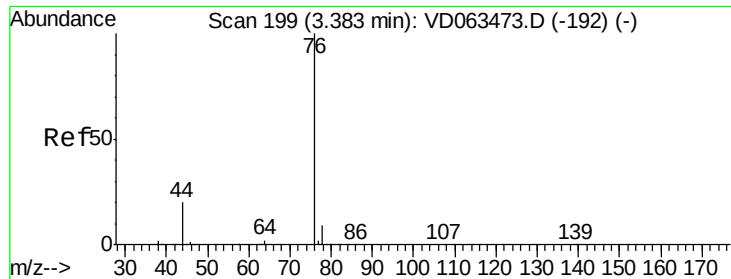
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->

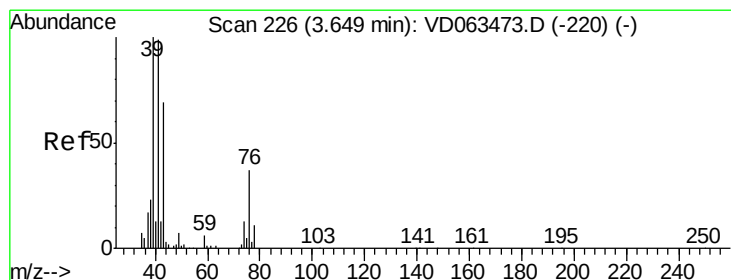
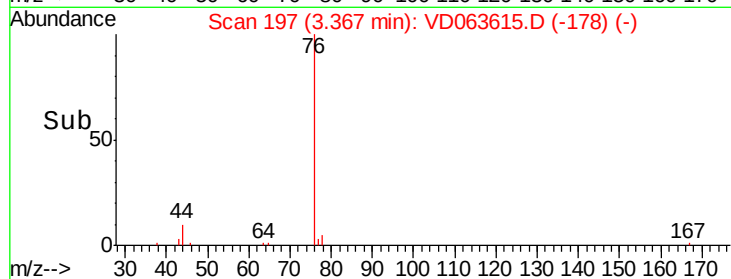
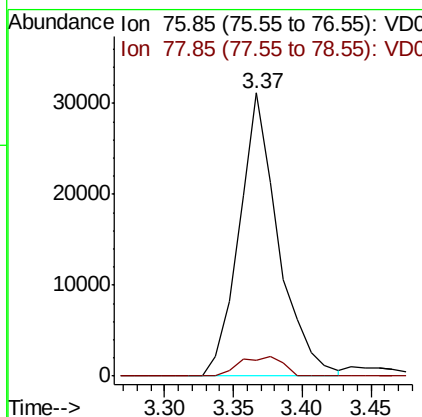
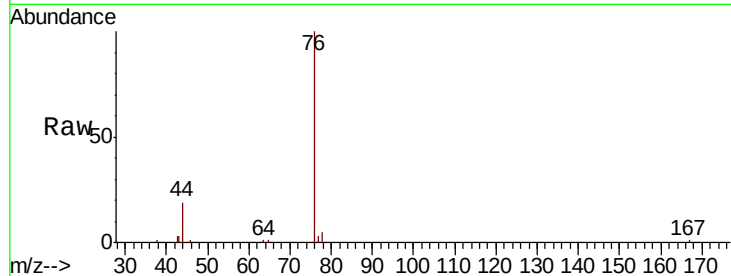




#17
Carbon Disulfide
Concen: 4.145 ug/l
RT: 3.37 min Scan# 197
Delta R.T. -0.02 min
Lab File: VD063615.D
Acq: 15 Aug 2019 19:39

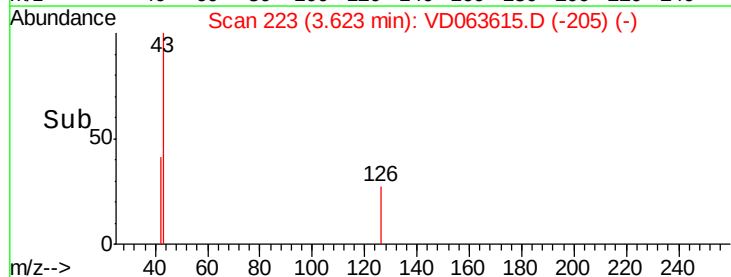
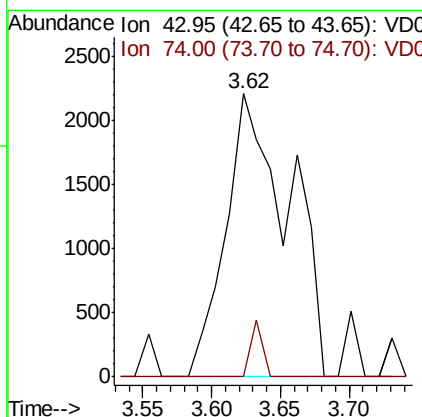
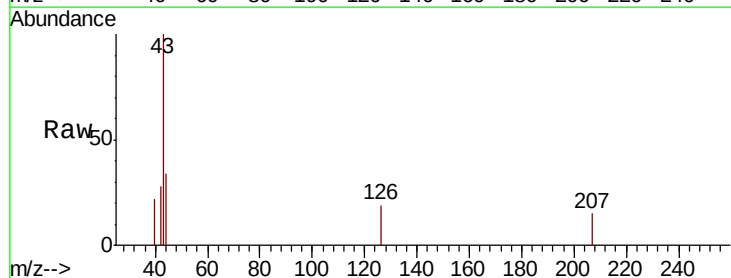
Instrument :
MSVOA_D
ClientSampleId :
TP-6

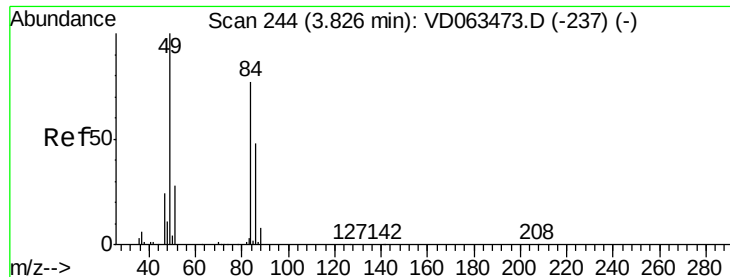
Tgt Ion: 76 Resp: 61473
Ion Ratio Lower Upper
76 100
78 5.5 7.4 11.0#



#18
Methyl Acetate
Concen: 2.942 ug/l
RT: 3.62 min Scan# 223
Delta R.T. -0.03 min
Lab File: VD063615.D
Acq: 15 Aug 2019 19:39

Tgt Ion: 43 Resp: 7042
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#

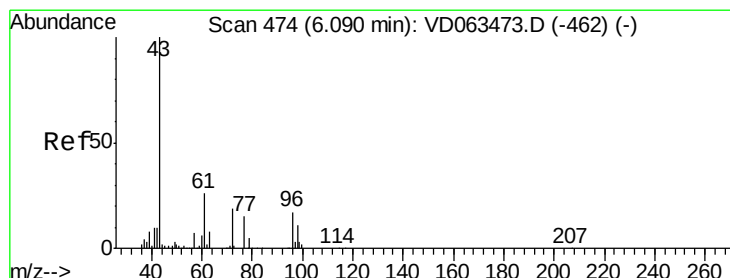
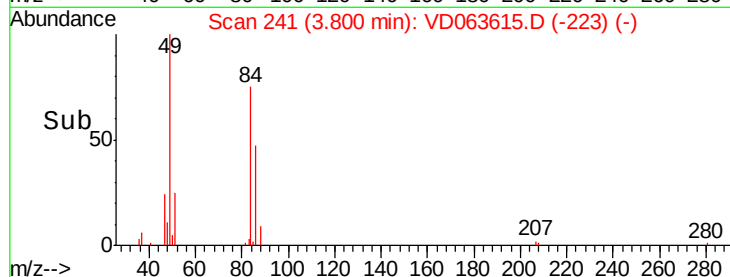
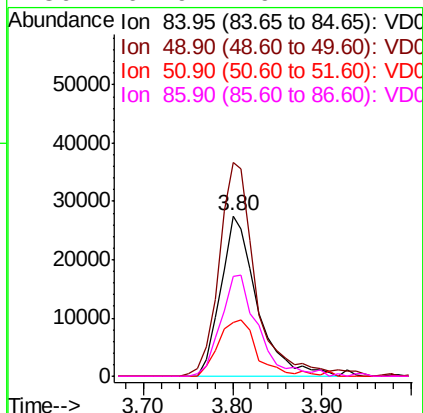
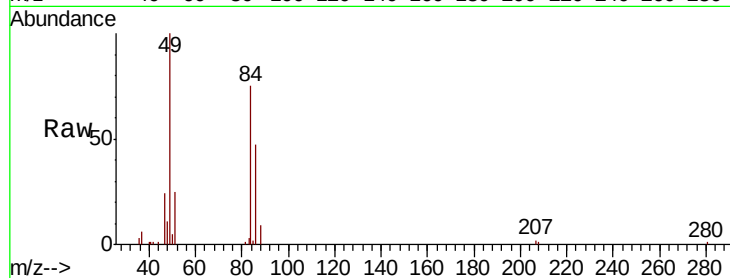




#20
Methylene Chloride
Concen: 14.338 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD063615.D
Acq: 15 Aug 2019 19:39

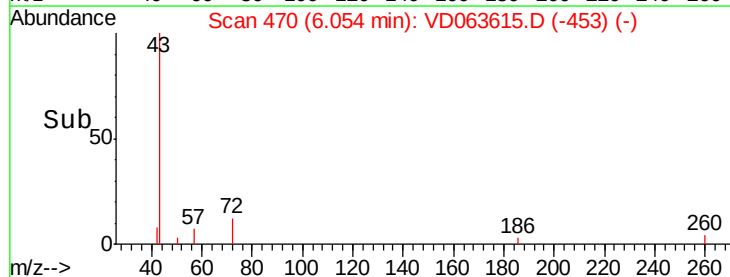
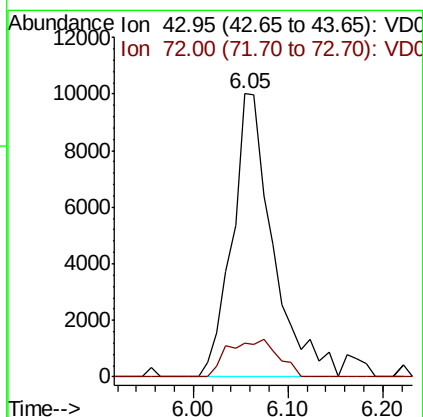
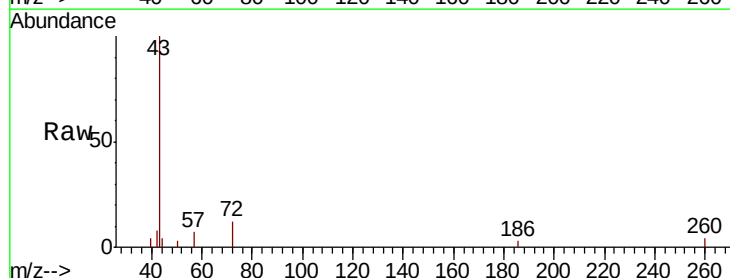
Instrument :
MSVOA_D
ClientSampled :
TP-6

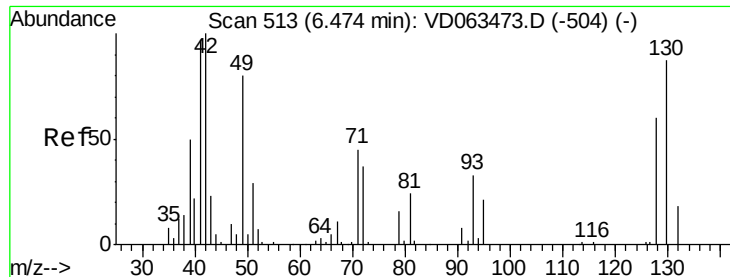
Tgt Ion:	84	Resp:	78352
Ion	Ratio	Lower	Upper
84	100		
49	133.1	103.4	155.2
51	33.7	28.5	42.7
86	61.9	49.4	74.2



#25
2-Butanone
Concen: 23.839 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.04 min
Lab File: VD063615.D
Acq: 15 Aug 2019 19:39

Tgt Ion:	43	Resp:	29755
Ion	Ratio	Lower	Upper
43	100		
72	12.0	15.1	22.7#





#29

Tetrahydrofuran

Concen: 12.409 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

TP-6

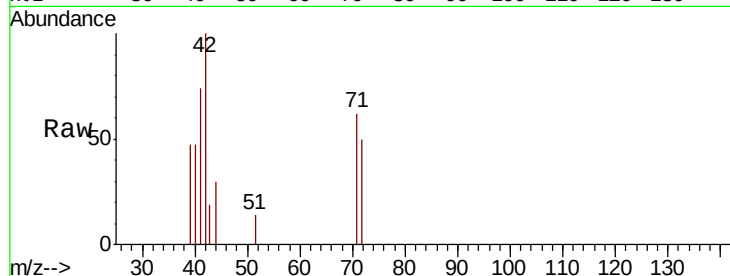
Tgt Ion: 42 Resp: 7217

Ion Ratio Lower Upper

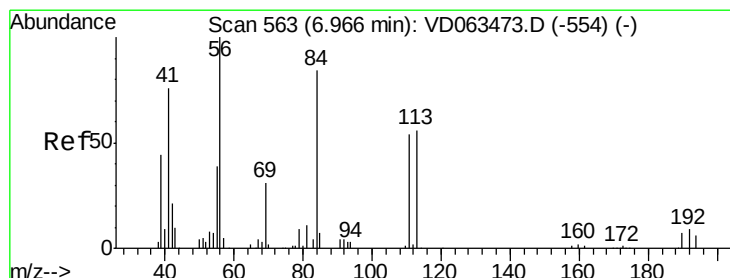
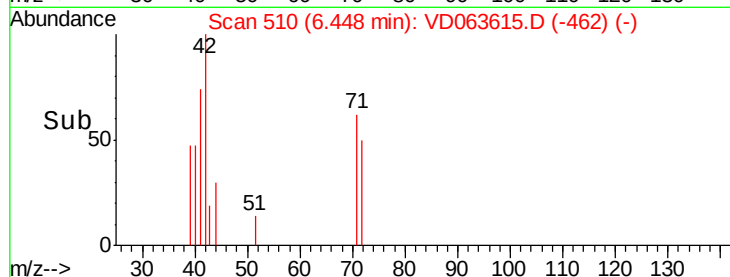
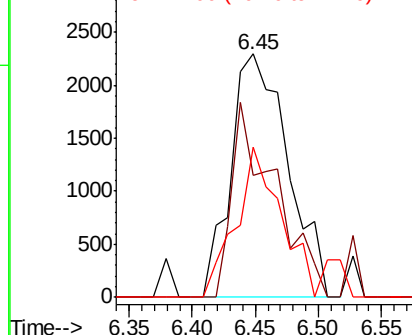
42 100

72 60.8 31.5 47.3#

71 48.7 33.8 50.8



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: 2.476 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.06 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

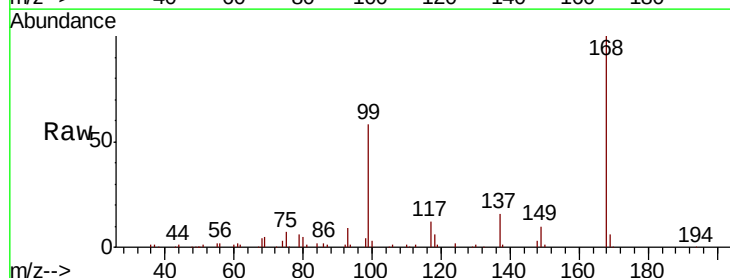
Tgt Ion: 56 Resp: 13900

Ion Ratio Lower Upper

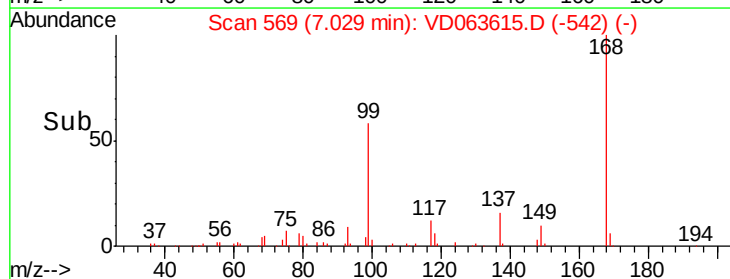
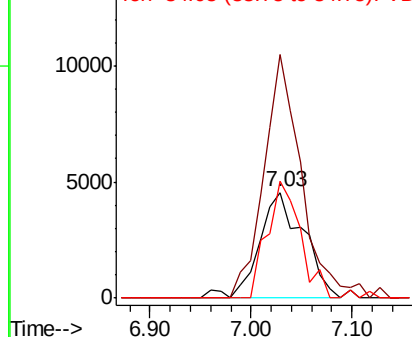
56 100

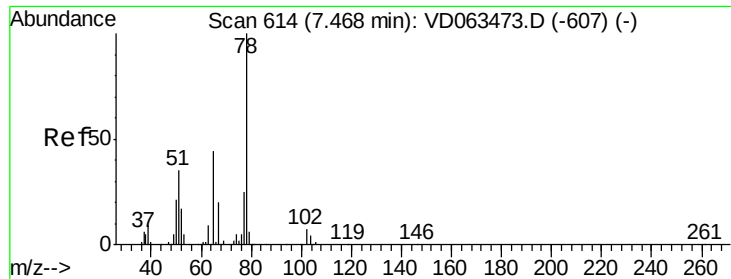
69 230.5 25.0 37.6#

84 111.3 69.7 104.5#



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

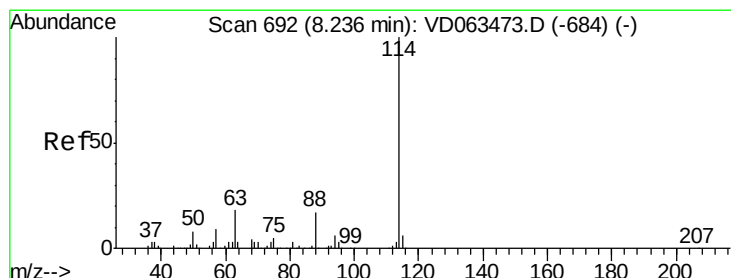
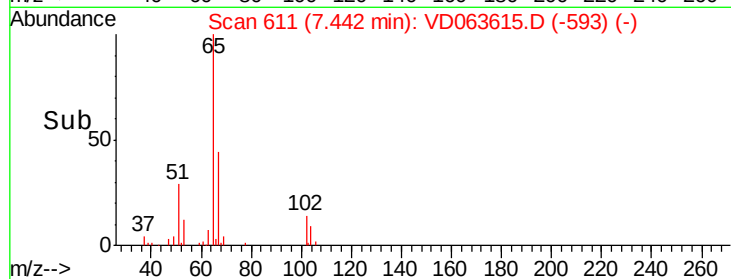
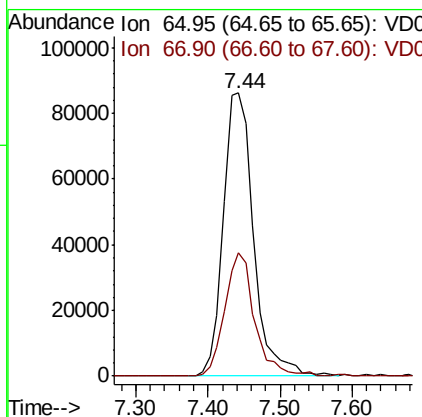
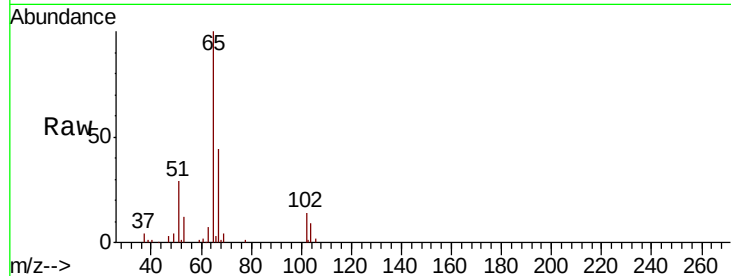




#33
 1,2-Dichloroethane-d4
 Concen: 40.370 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD063615.D
 Acq: 15 Aug 2019 19:39

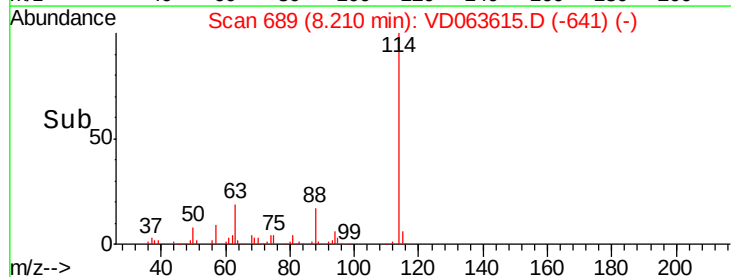
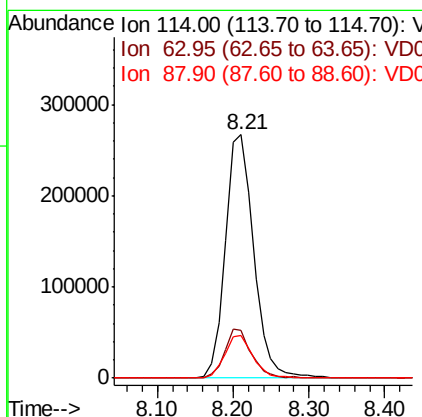
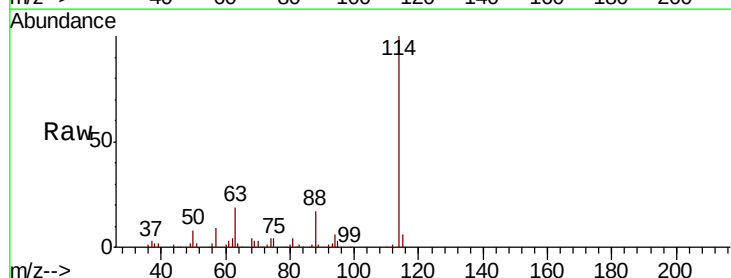
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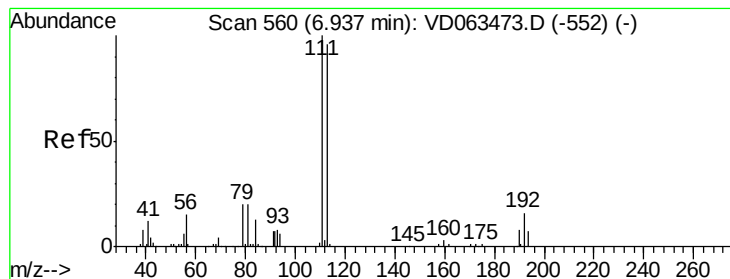
Tgt Ion: 65 Resp: 250979
 Ion Ratio Lower Upper
 65 100
 67 43.7 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD063615.D
 Acq: 15 Aug 2019 19:39

Tgt Ion: 114 Resp: 689502
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 36.2
 88 17.4 0.0 35.0





#35

Dibromofluoromethane

Concen: 44.829 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

TP-6

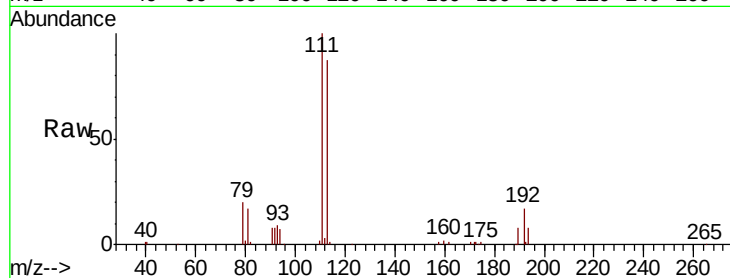
Tgt Ion:113 Resp: 260322

Ion Ratio Lower Upper

113 100

111 114.9 83.1 124.7

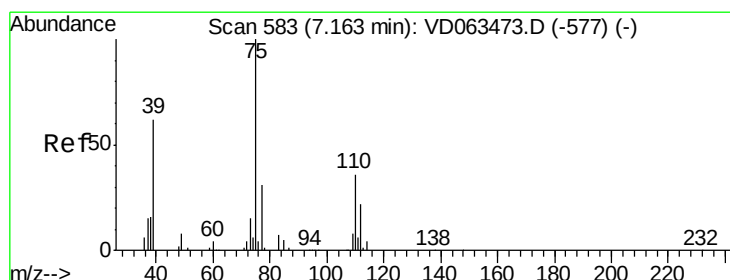
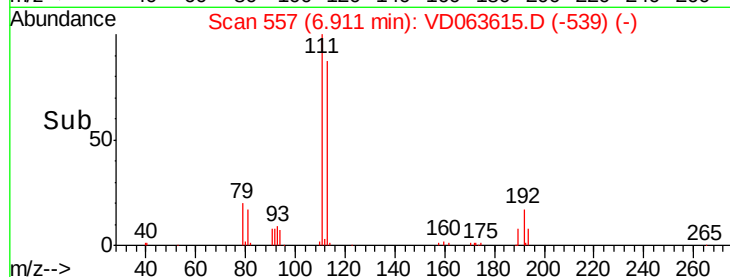
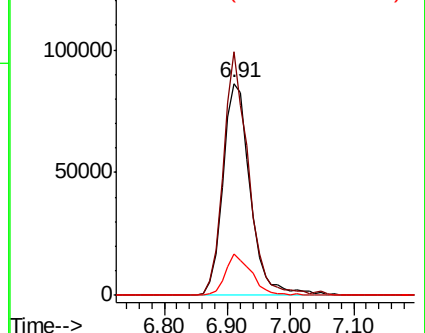
192 19.5 13.1 19.7



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: 7.450 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.13 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

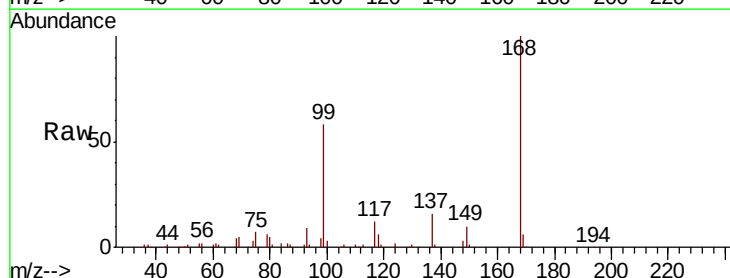
Tgt Ion: 75 Resp: 45413

Ion Ratio Lower Upper

75 100

110 7.1 17.6 52.8#

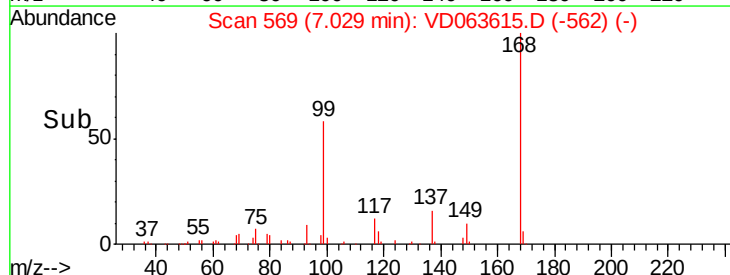
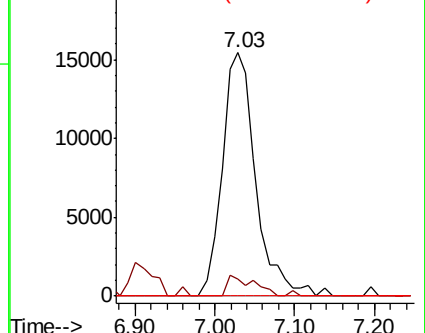
77 0.0 24.3 36.5#

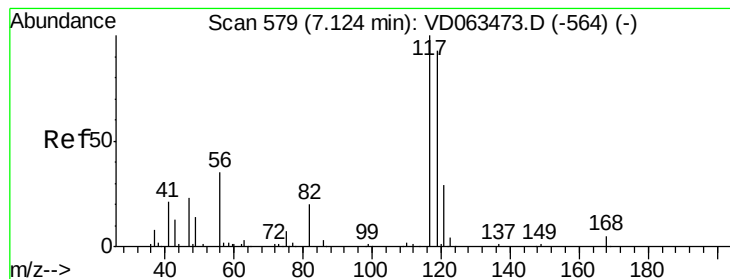


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 6.711 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.09 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

TP-6

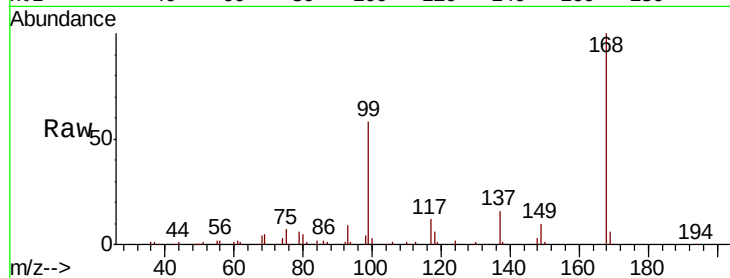
Tgt Ion:117 Resp: 61650

Ion Ratio Lower Upper

117 100

119 6.7 74.2 111.2#

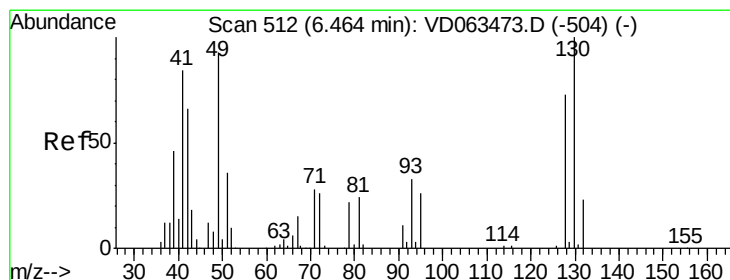
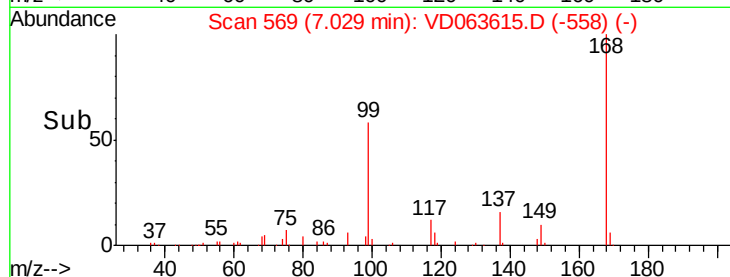
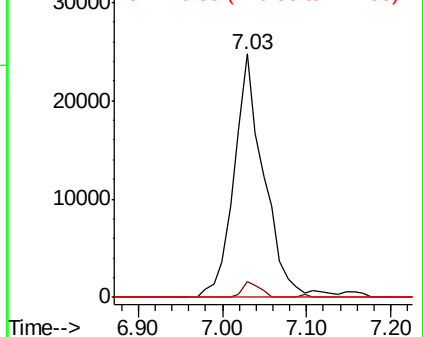
121 0.0 23.1 34.7#



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



#41

Methacrylonitrile

Concen: 1.617 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Tgt Ion: 41 Resp: 5199

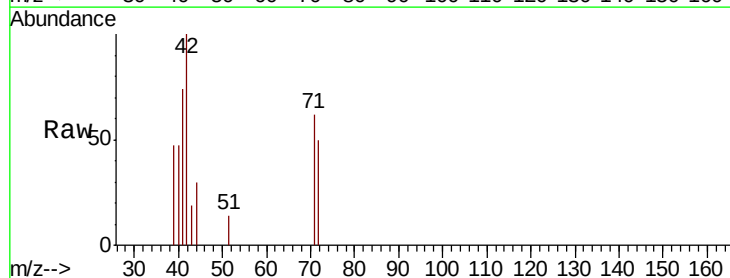
Ion Ratio Lower Upper

41 100

39 64.0 44.6 66.8

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

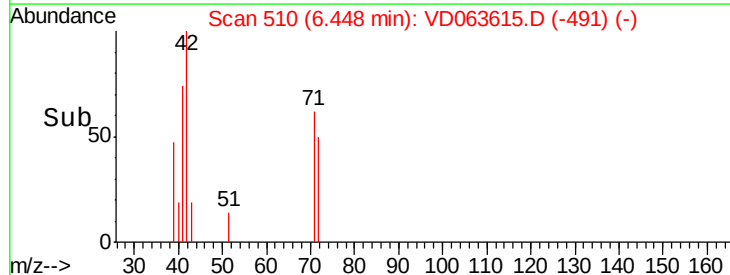
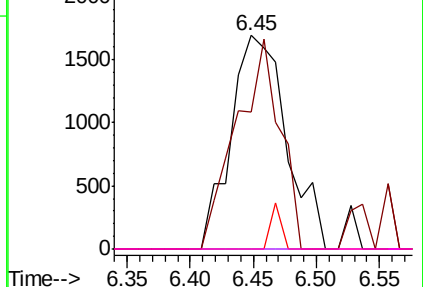


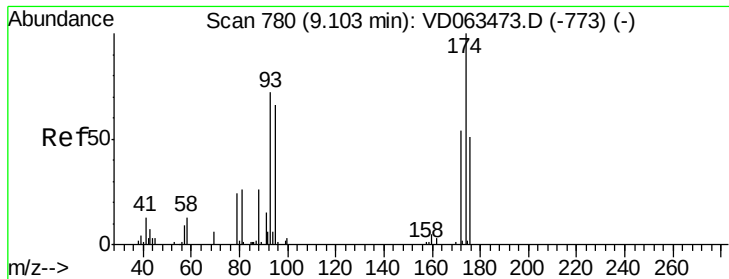
Abundance Ion 40.95 (40.65 to 41.65): VDC

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





#49

1,4-Dioxane

Concen: 39.287 ug/l

RT: 8.70 min Scan# 739

Delta R.T. -0.40 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

TP-6

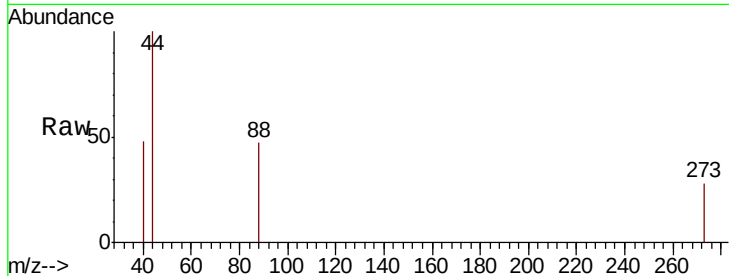
Tgt Ion: 88 Resp: 309

Ion Ratio Lower Upper

88 100

43 0.0 22.9 34.3#

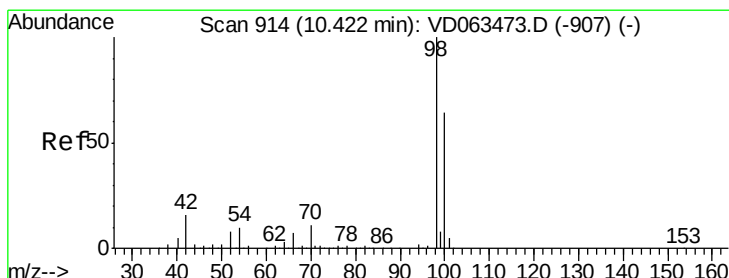
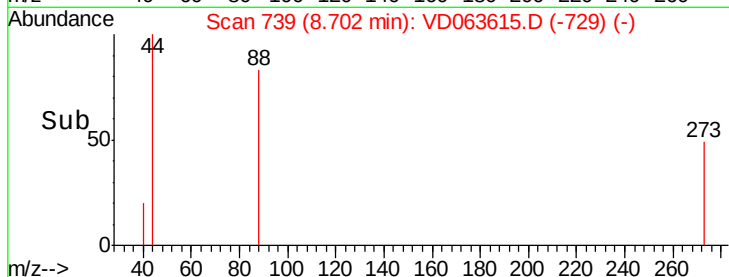
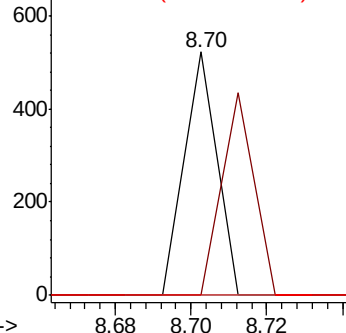
58 0.0 40.1 60.1#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 30.545 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.03 min

Lab File: VD063615.D

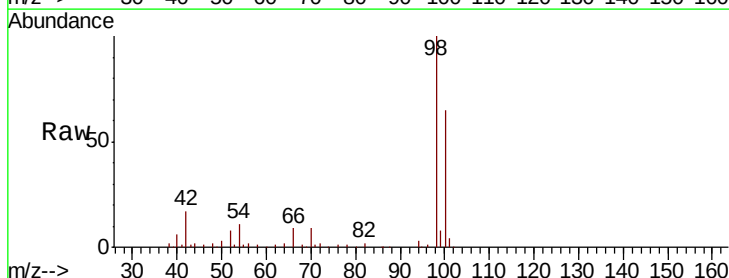
Acq: 15 Aug 2019 19:39

Tgt Ion: 98 Resp: 389965

Ion Ratio Lower Upper

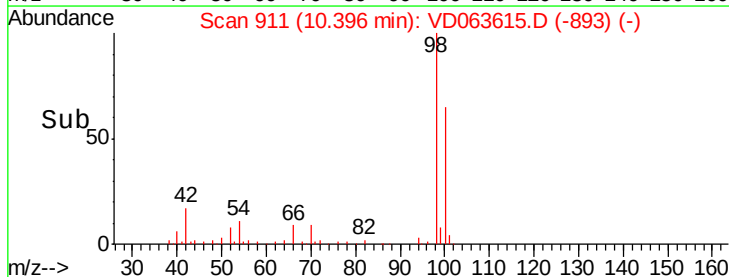
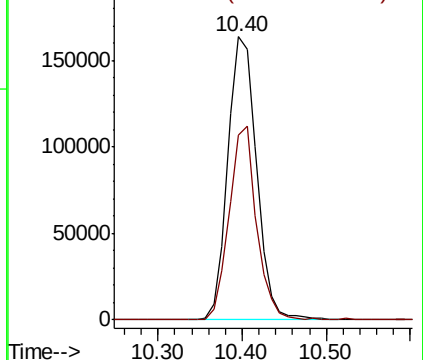
98 100

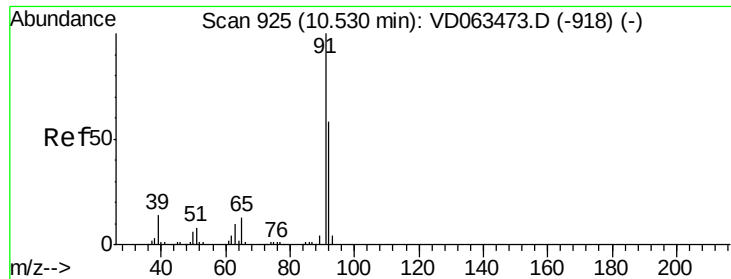
100 65.3 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 2.368 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

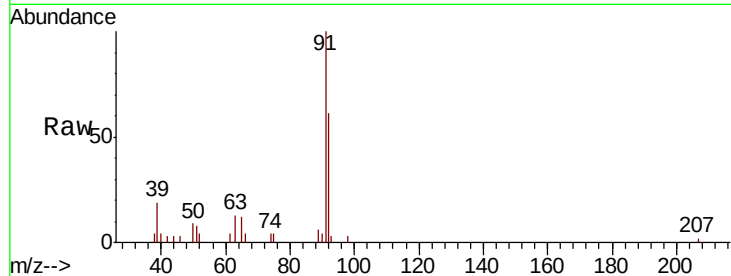
TP-6

Tgt Ion: 92 Resp: 20460

Ion Ratio Lower Upper

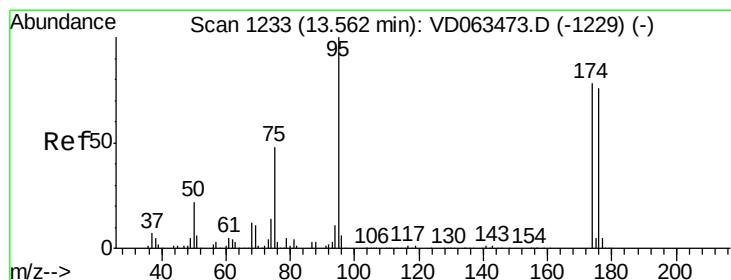
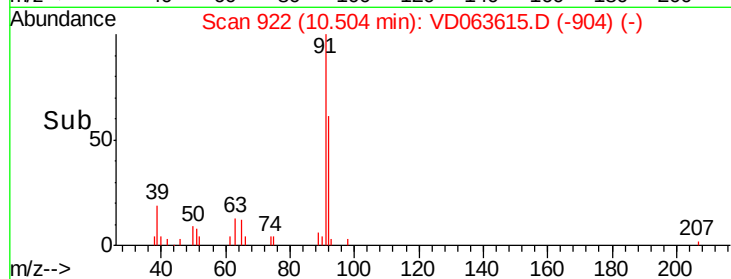
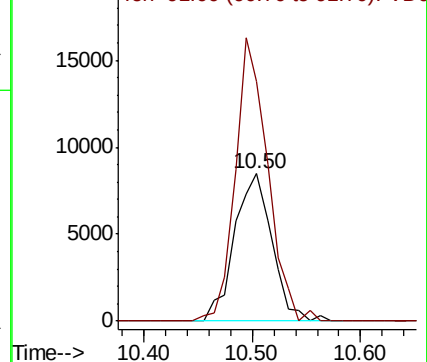
92 100

91 163.2 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 12.857 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

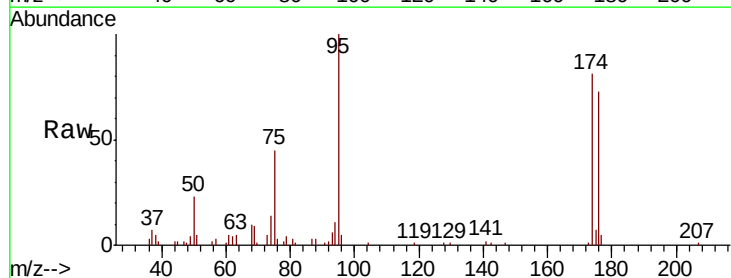
Tgt Ion: 95 Resp: 74396

Ion Ratio Lower Upper

95 100

174 81.0 0.0 155.4

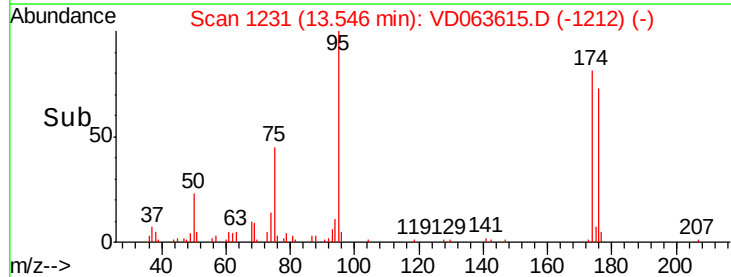
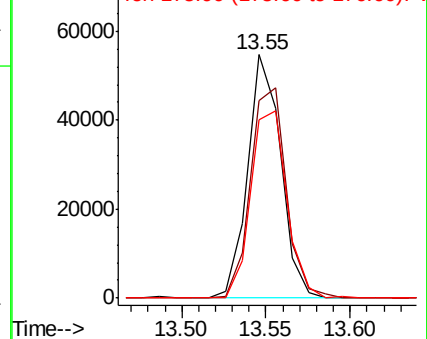
176 73.1 0.0 152.4

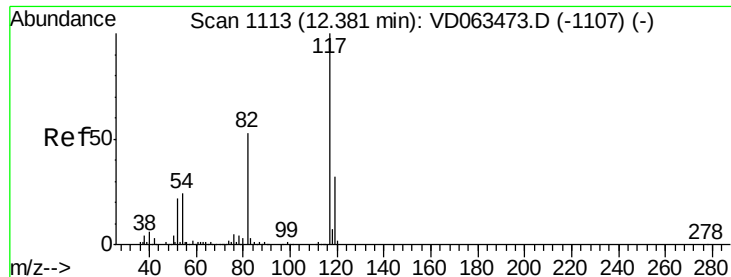


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

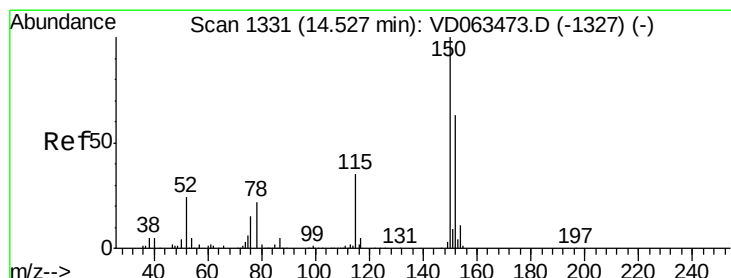
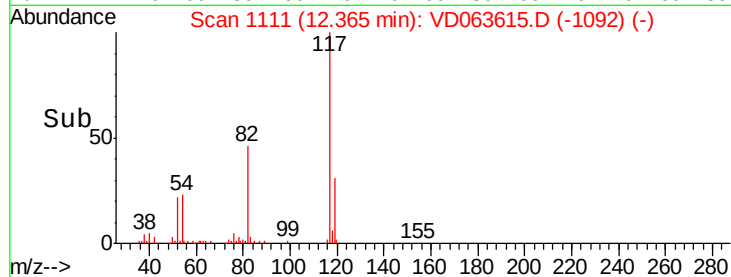
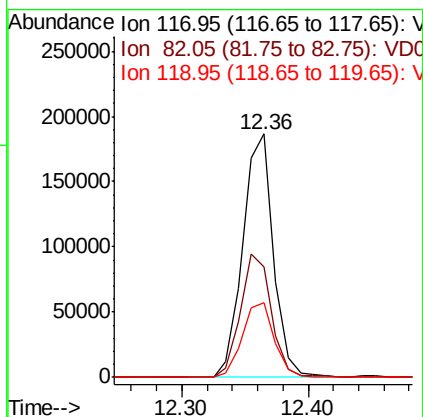
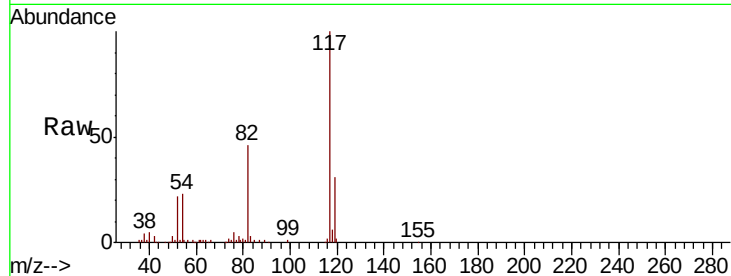




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063615.D
Acq: 15 Aug 2019 19:39

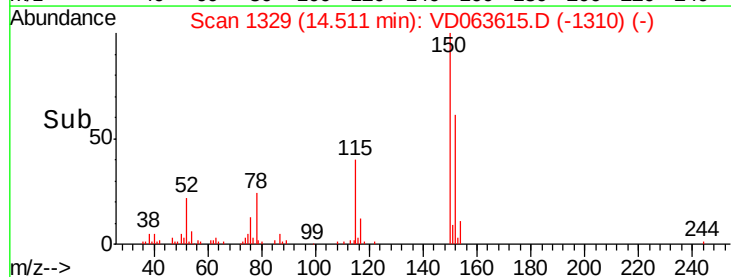
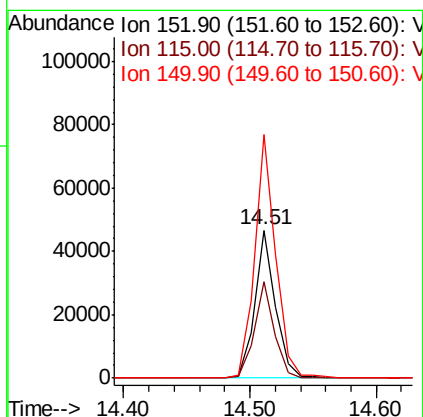
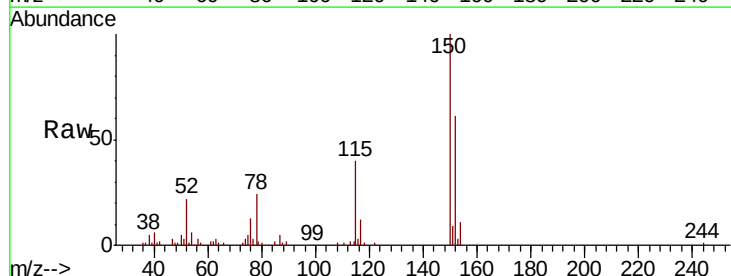
Instrument :
MSVOA_D
ClientSampled :
TP-6

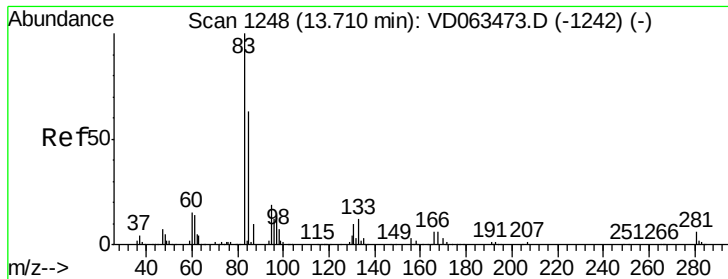
Tgt Ion:117 Resp: 312987
Ion Ratio Lower Upper
117 100
82 45.5 42.0 63.0
119 30.9 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD063615.D
Acq: 15 Aug 2019 19:39

Tgt Ion:152 Resp: 53071
Ion Ratio Lower Upper
152 100
115 65.2 30.9 92.7
150 164.4 0.0 318.6





#75

1,1,2,2-Tetrachloroethane

Concen: 1.787 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.09 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

TP-6

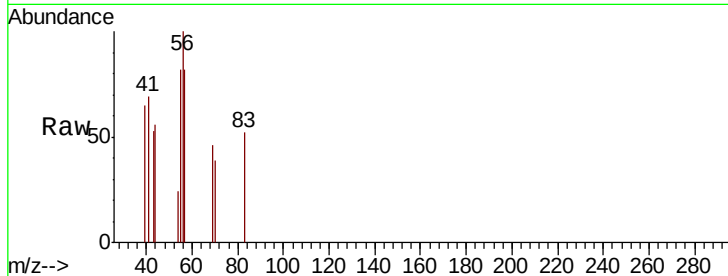
Tgt Ion: 83 Resp: 1001

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 0.0 31.4 94.3#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

800

600

400

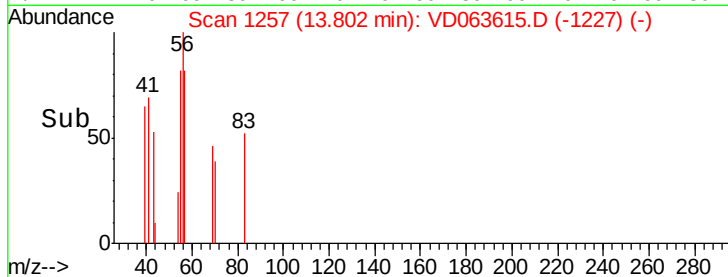
200

0

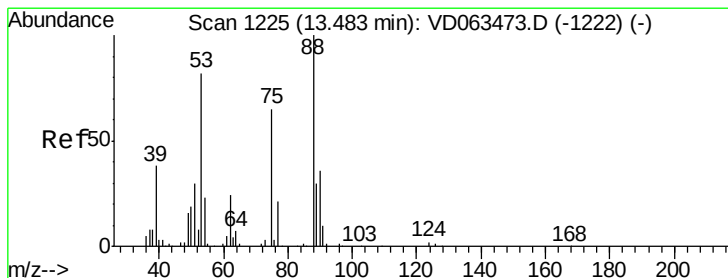
13.75

13.80

13.85



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 190.917 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

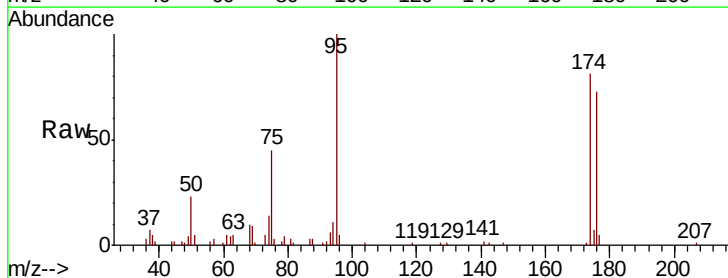
Tgt Ion: 75 Resp: 31254

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

30000

25000

20000

15000

10000

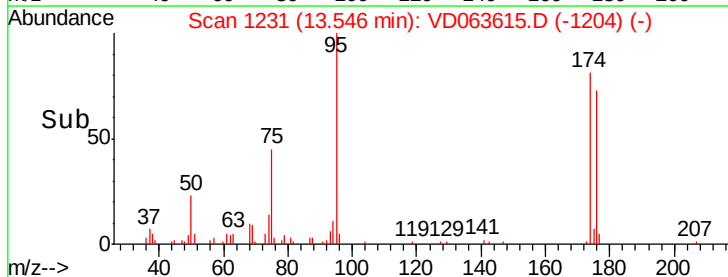
5000

0

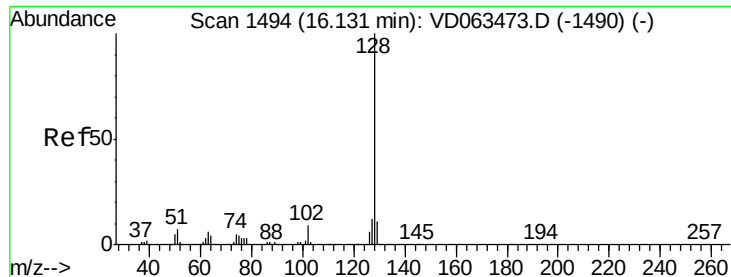
13.50

13.55

13.60



Time-->



#95

Naphthalene

Concen: 1.079 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.02 min

Lab File: VD063615.D

Acq: 15 Aug 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

TP-6

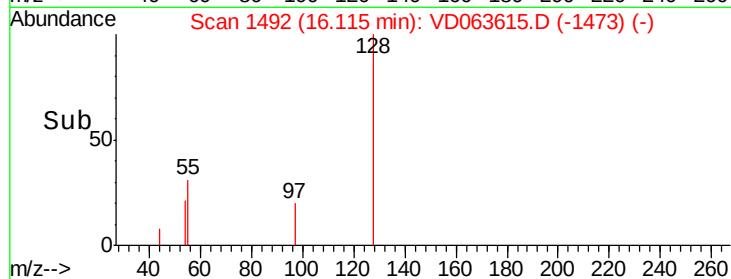
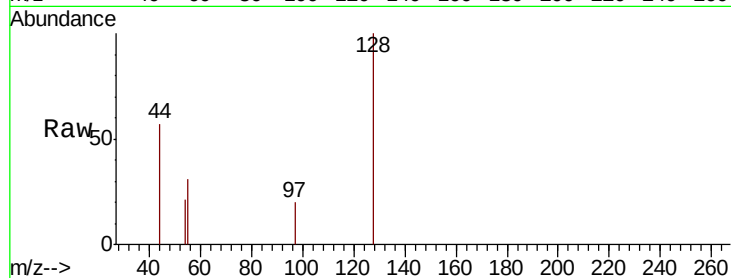
Tgt Ion:128 Resp: 1704

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.0#

129 0.0 8.5 12.7#



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

