

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080519\
 Data File : VD063386.D
 Acq On : 5 Aug 2019 17:44
 Operator : VA/AP
 Sample : K4130-15RE
 Misc : 6.21g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-L-(0-1)RE

Quant Time: Aug 06 07:51:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	34449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	53805	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	57090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	30474	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	31384	82.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	164.20%	
35) Dibromofluoromethane	6.91	113	25059	54.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.10%	
50) Toluene-d8	10.41	98	49044	47.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.40%	
62) 4-Bromofluorobenzene	13.55	95	26428	56.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.82%	

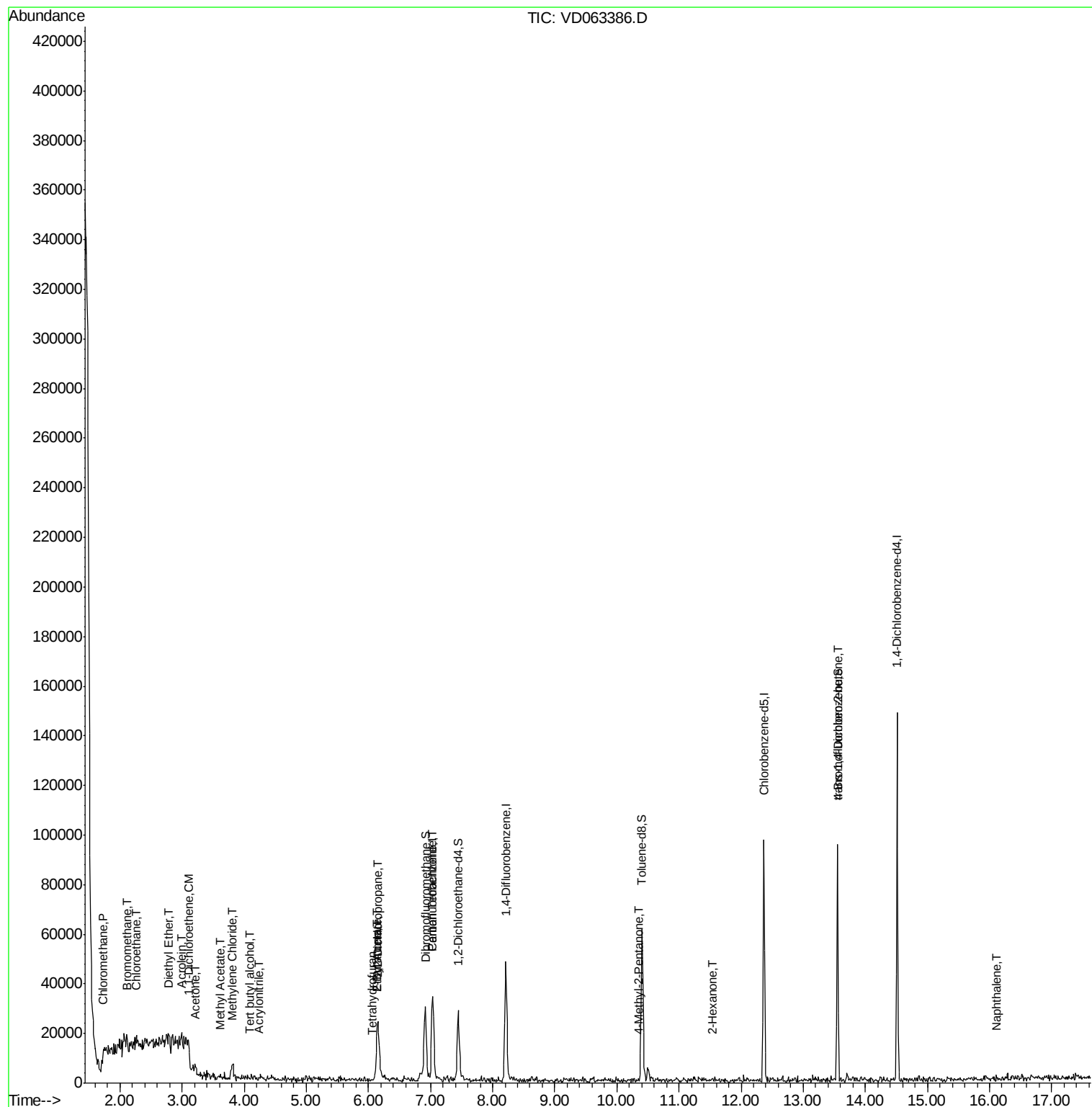
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.73	50	539	1.647	ug/l #	46
5) Bromomethane	2.11	94	2192	12.833	ug/l #	12
6) Chloroethane	2.27	64	201	1.285	ug/l #	1
8) Diethyl Ether	2.79	74	223	2.425	ug/l #	67
11) Tert butyl alcohol	4.09	59	253	15.082	ug/l #	69
12) 1,1-Dichloroethene	3.09	96	288	1.078	ug/l #	1
13) Acrolein	2.98	56	213	13.194	ug/l #	15
15) Acrylonitrile	4.22	53	182	4.185	ug/l #	14
16) Acetone	3.21	43	6255	83.987	ug/l #	90
18) Methyl Acetate	3.61	43	203	1.419	ug/l #	60
20) Methylene Chloride	3.80	84	3771	12.527	ug/l #	62
25) 2-Butanone	6.12	43	2948	39.442	ug/l #	56
26) 2,2-Dichloropropane	6.15	77	1274	2.276	ug/l #	56
29) Tetrahydrofuran	6.07	42	220	6.217	ug/l #	33
37) Ethyl Acetate	6.12	43	2948	13.363	ug/l #	70
38) Carbon Tetrachloride	7.03	117	4262	5.765	ug/l #	11
51) 4-Methyl-2-Pentanone	10.35	43	228	1.190	ug/l #	42
59) 2-Hexanone	11.54	43	709	5.134	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.56	75	13994	137.683	ug/l #	3
95) Naphthalene	16.12	128	1333	1.414	ug/l #	70

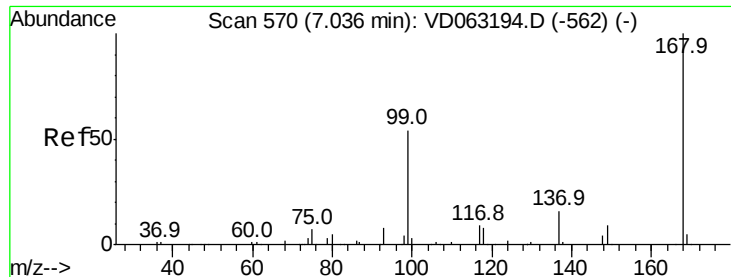
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

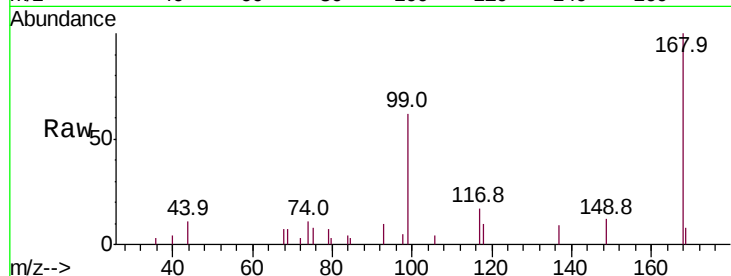
1S-L-(0-1)RE

Tot Ion:168 Resp: 34449

Ion Ratio Lower Upper

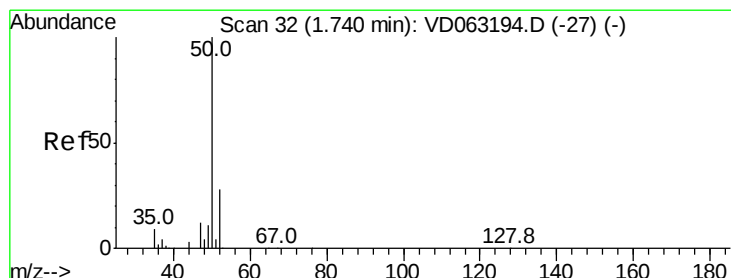
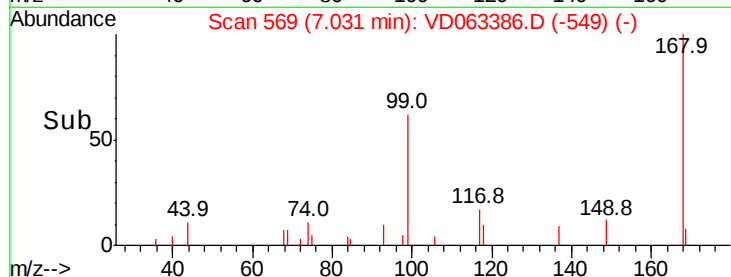
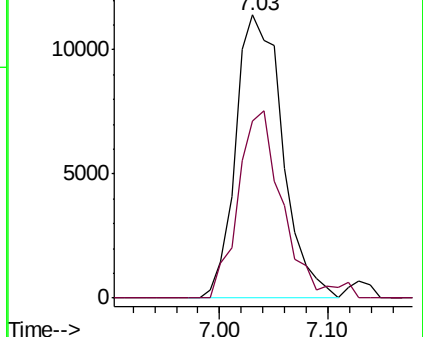
168 100

99 62.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.647 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.01 min

Lab File: VD063386.D

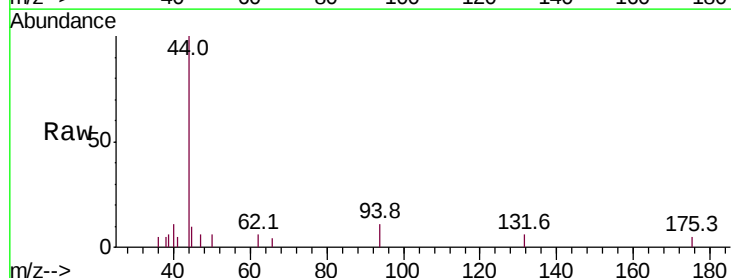
Acq: 5 Aug 2019 17:44

Tgt Ion: 50 Resp: 539

Ion Ratio Lower Upper

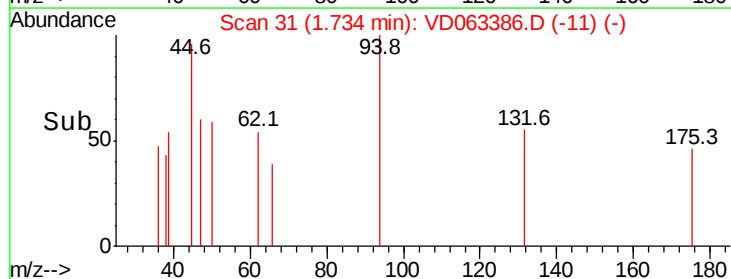
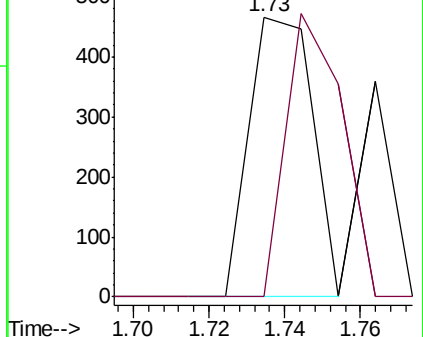
50 100

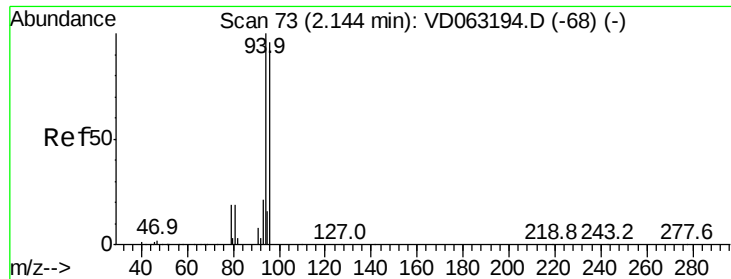
52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 12.833 ug/l

RT: 2.11 min Scan# 69

Delta R.T. -0.04 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

1S-L-(0-1)RE

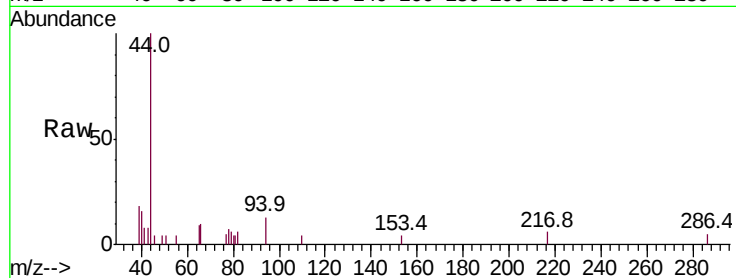
Tot Ion: 94 Resp: 2192

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

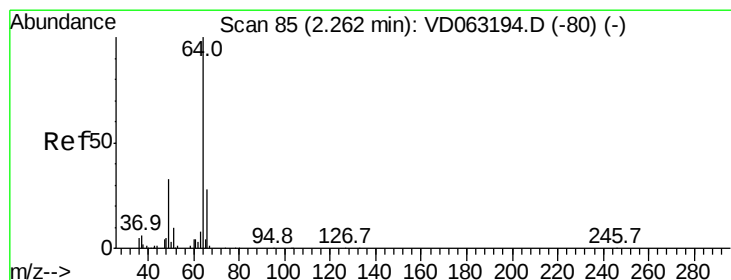
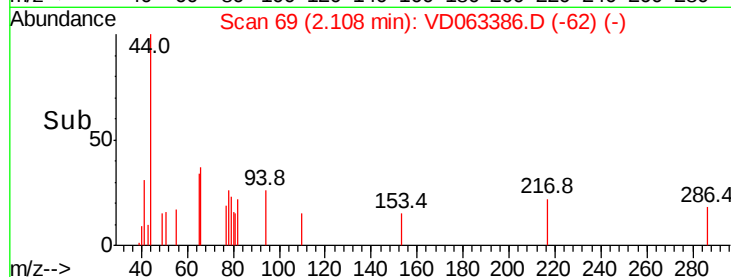
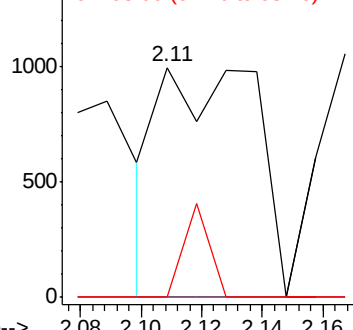
93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 1.285 ug/l

RT: 2.27 min Scan# 85

Delta R.T. 0.00 min

Lab File: VD063386.D

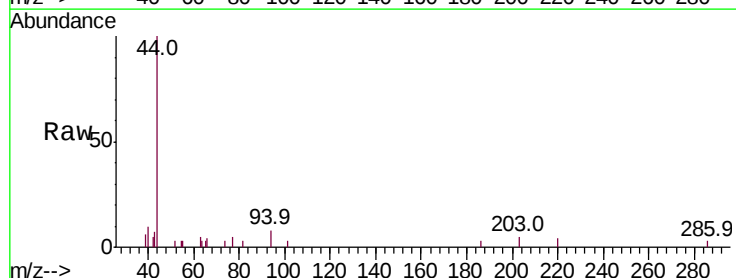
Acq: 5 Aug 2019 17:44

Tgt Ion: 64 Resp: 201

Ion Ratio Lower Upper

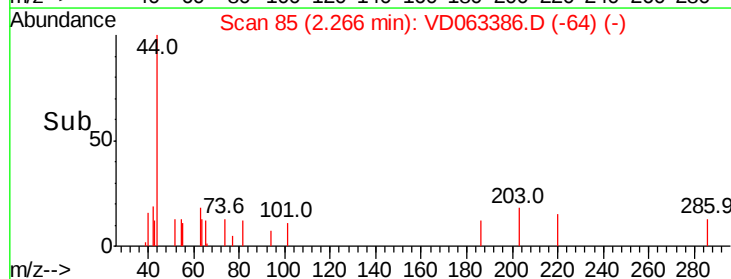
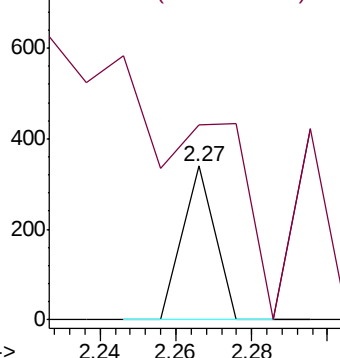
64 100

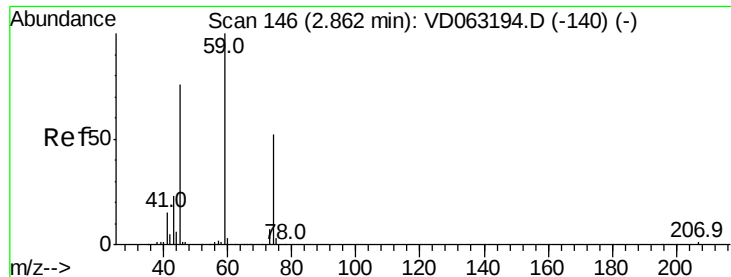
66 127.1 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 2.425 ug/l

RT: 2.79 min Scan# 138

Delta R.T. -0.07 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

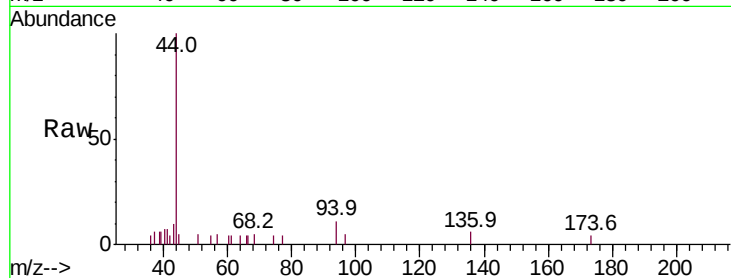
1S-L-(0-1)RE

Tot Ion: 74 Resp: 223

Ion Ratio Lower Upper

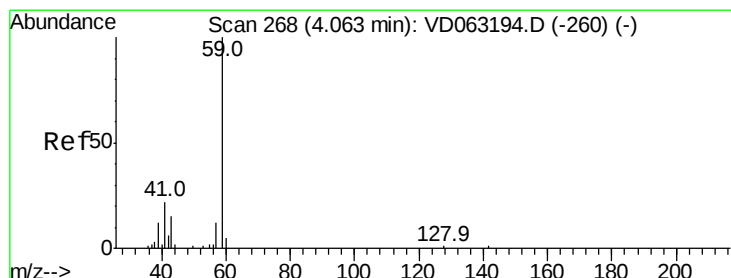
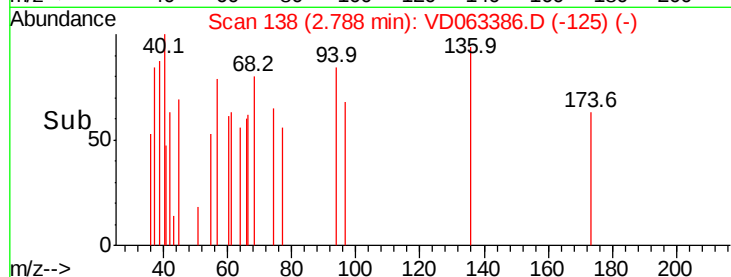
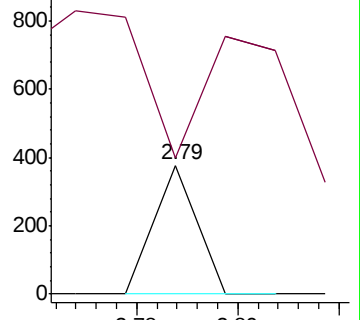
74 100

45 105.8 73.6 220.8



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 15.082 ug/l

RT: 4.09 min Scan# 270

Delta R.T. 0.02 min

Lab File: VD063386.D

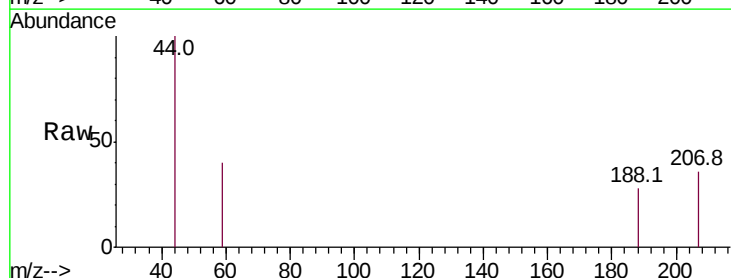
Acq: 5 Aug 2019 17:44

Tgt Ion: 59 Resp: 253

Ion Ratio Lower Upper

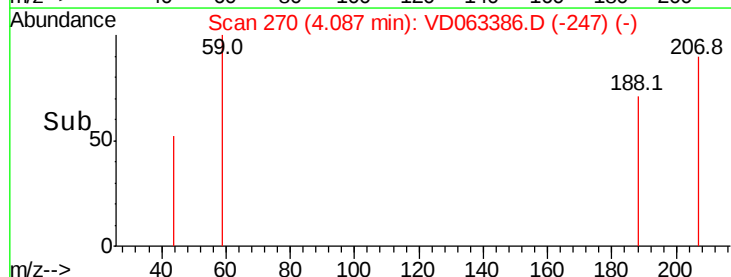
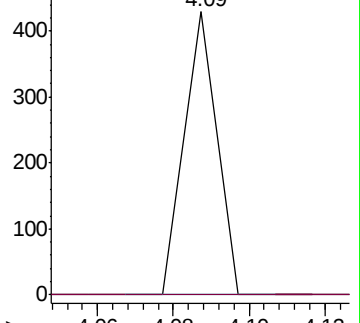
59 100

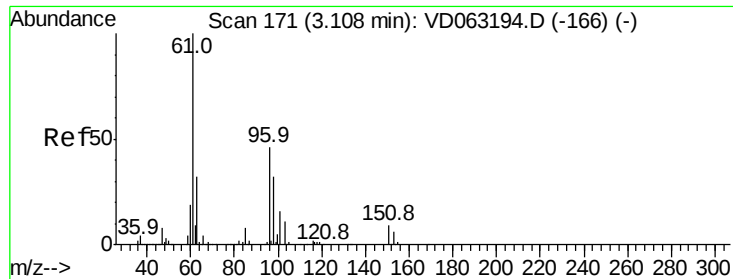
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#12

1,1-Dichloroethene

Concen: 1.078 ug/l

RT: 3.09 min Scan# 169

Delta R.T. -0.02 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

1S-L-(0-1)RE

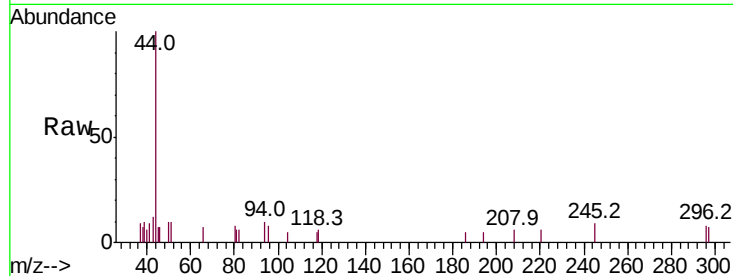
Tot Ion: 96 Resp: 288

Ion Ratio Lower Upper

96 100

61 0.0 173.7 260.5#

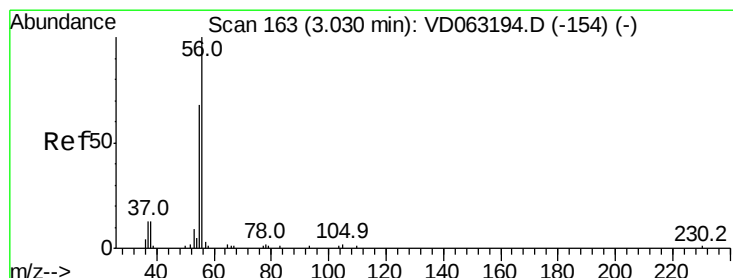
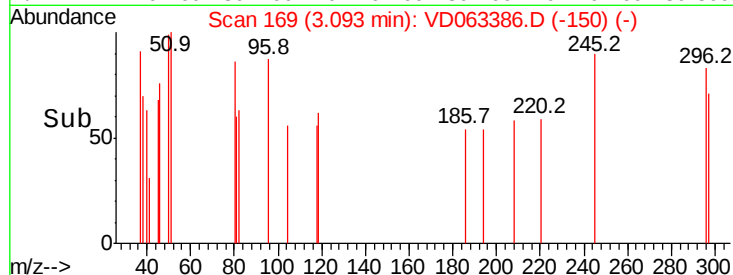
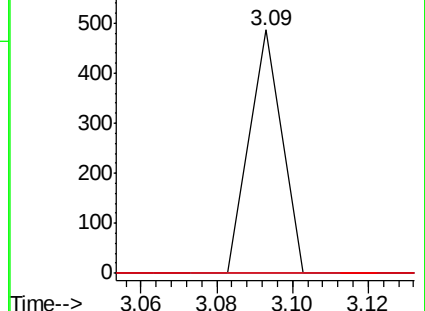
98 0.0 55.8 83.8#



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



#13

Acrolein

Concen: 13.194 ug/l

RT: 2.98 min Scan# 158

Delta R.T. -0.04 min

Lab File: VD063386.D

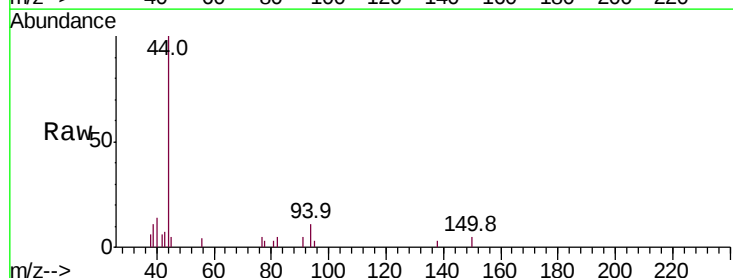
Acq: 5 Aug 2019 17:44

Tgt Ion: 56 Resp: 213

Ion Ratio Lower Upper

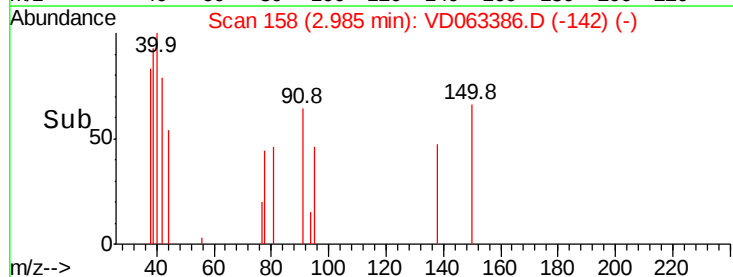
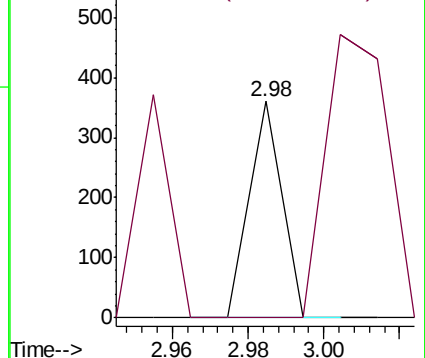
56 100

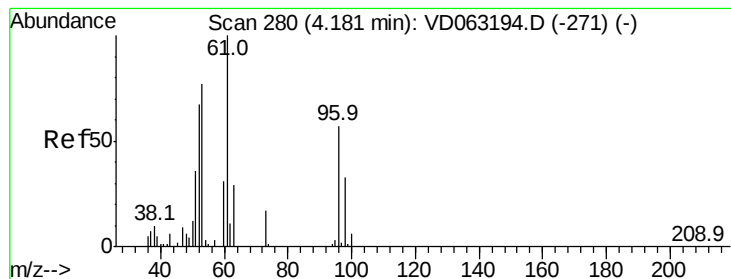
55 0.0 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#15

Acrylonitrile

Concen: 4.185 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.04 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

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ClientSampleId :

1S-L-(0-1)RE

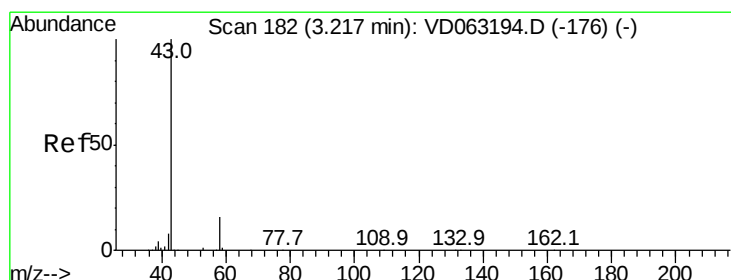
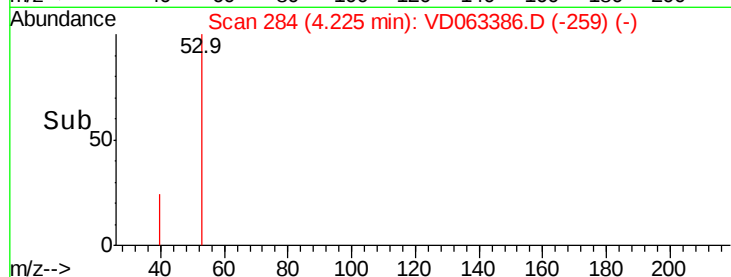
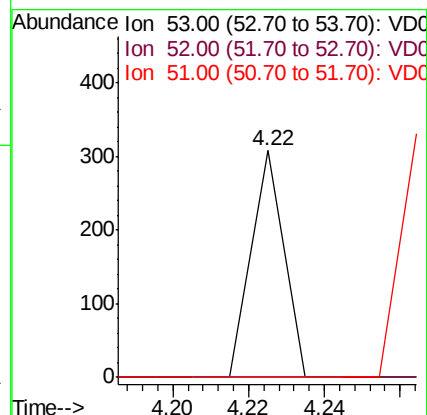
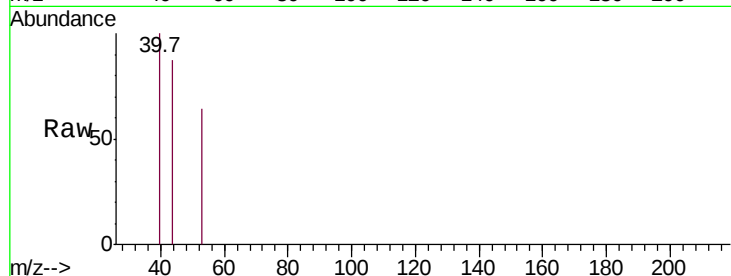
Tot Ion: 53 Resp: 182

Ion Ratio Lower Upper

53 100

52 0.0 69.7 104.5#

51 0.0 37.4 56.0#



#16

Acetone

Concen: 83.987 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063386.D

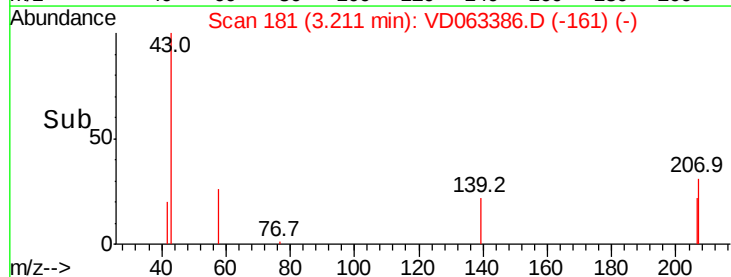
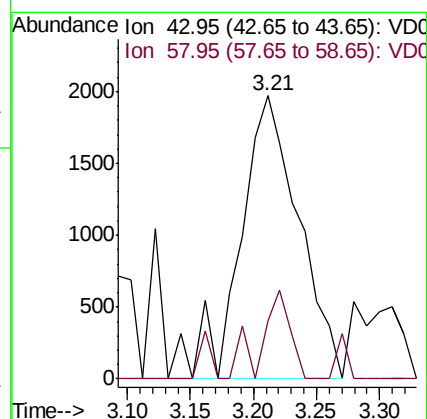
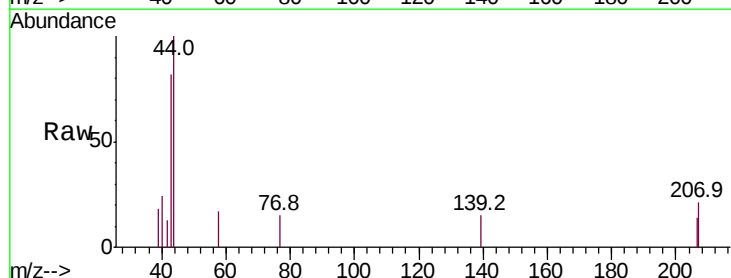
Acq: 5 Aug 2019 17:44

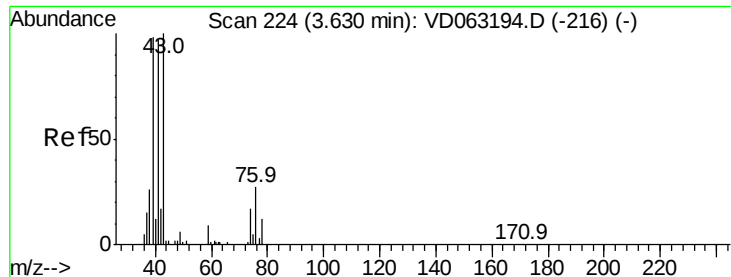
Tgt Ion: 43 Resp: 6255

Ion Ratio Lower Upper

43 100

58 20.4 13.0 19.4#

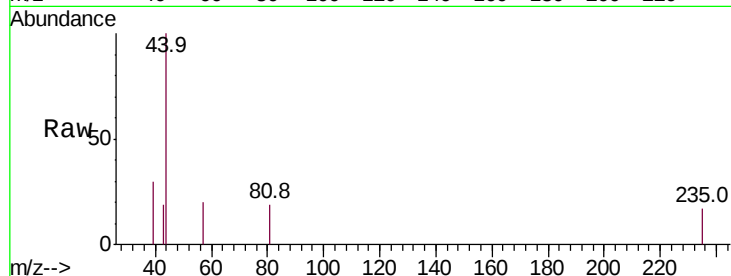




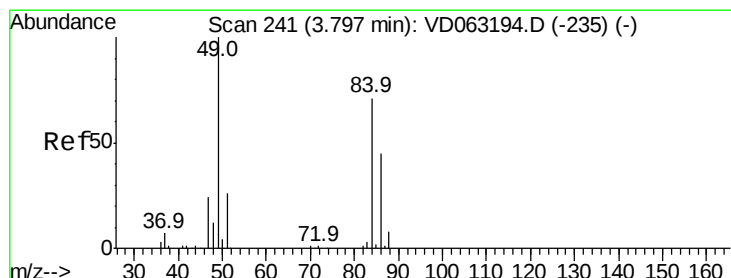
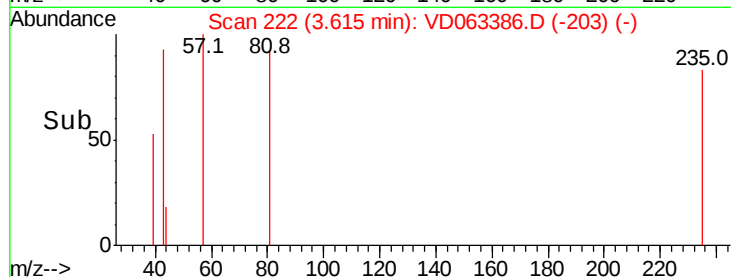
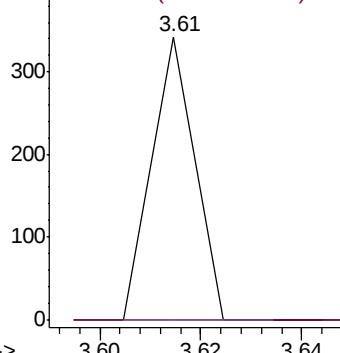
#18
Methvl Acetate
Concen: 1.419 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.02 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

Instrument :
MSVOA_D
ClientSampleId :
1S-L-(0-1)RE

Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#

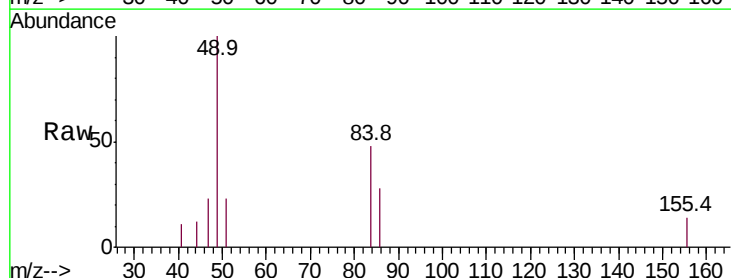


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

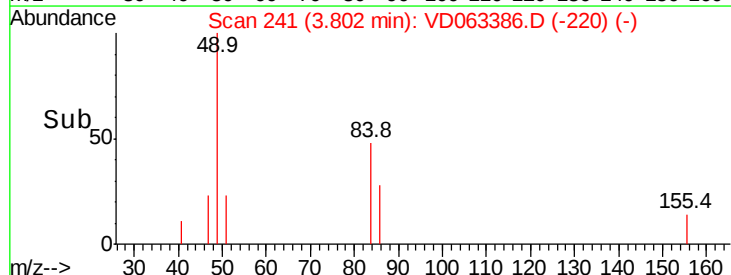
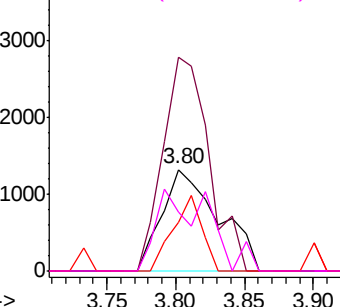


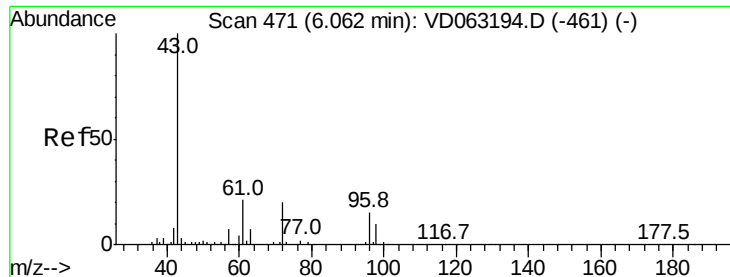
#20
Methylene Chloride
Concen: 12.527 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

Tgt Ion: 84 Resp: 3771
Ion Ratio Lower Upper
84 100
49 210.5 112.5 168.7#
51 47.4 29.6 44.4#
86 58.3 50.4 75.6



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: 39.442 ug/l

RT: 6.12 min Scan# 477

Delta R.T. 0.06 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

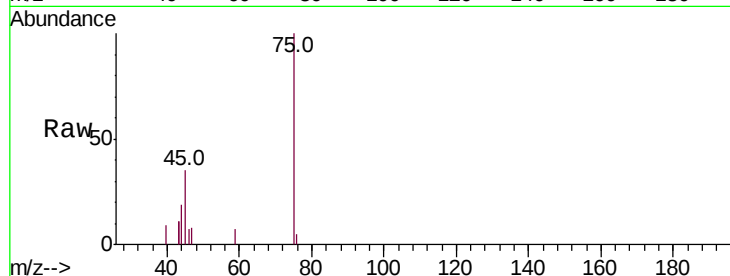
1S-L-(0-1)RE

Tot Ion: 43 Resp: 2948

Ion Ratio Lower Upper

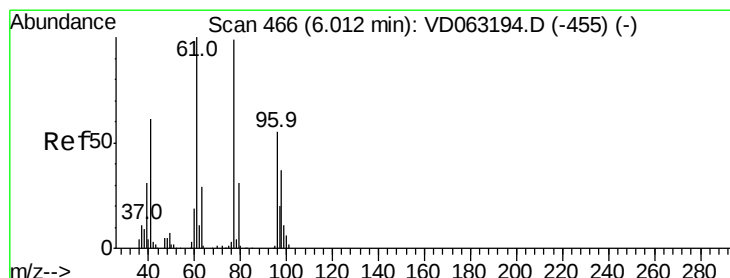
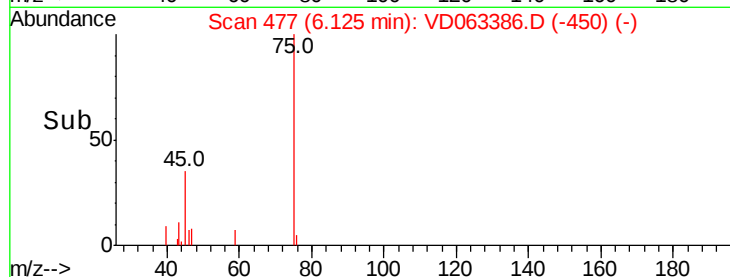
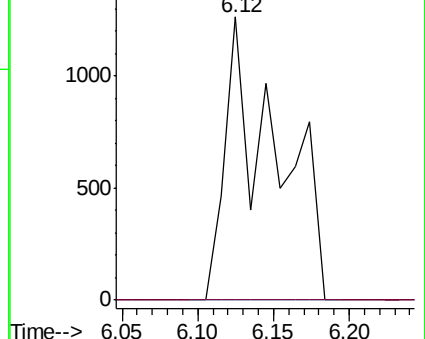
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.276 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.14 min

Lab File: VD063386.D

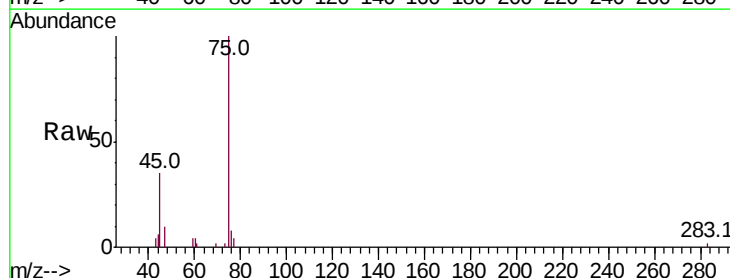
Acq: 5 Aug 2019 17:44

Tgt Ion: 77 Resp: 1274

Ion Ratio Lower Upper

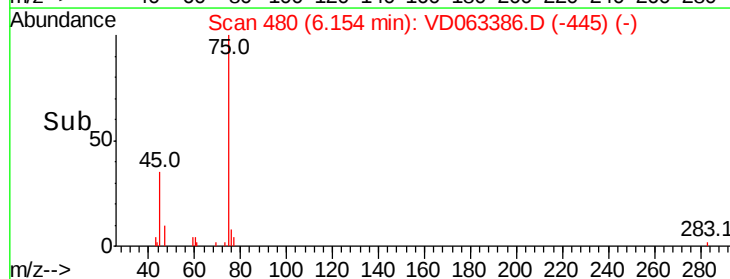
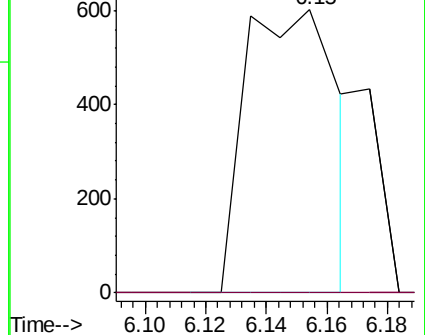
77 100

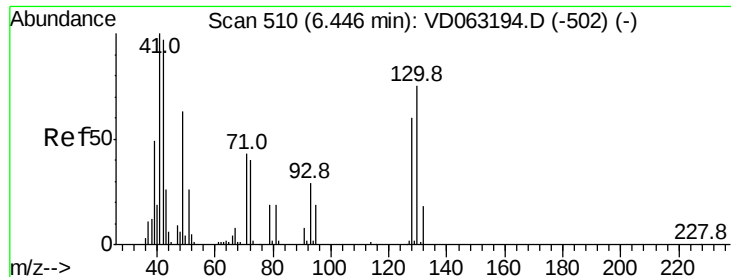
97 0.0 10.2 30.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 6.217 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.38 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

1S-L-(0-1)RE

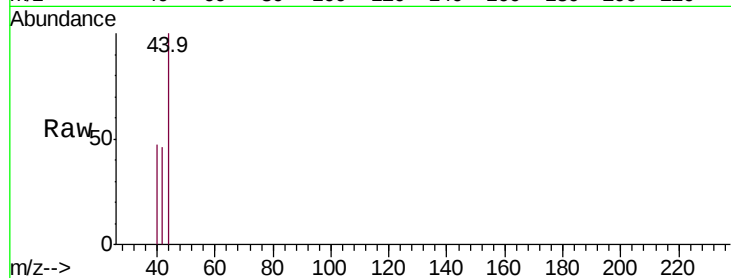
Tot Ion: 42 Resp: 220

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

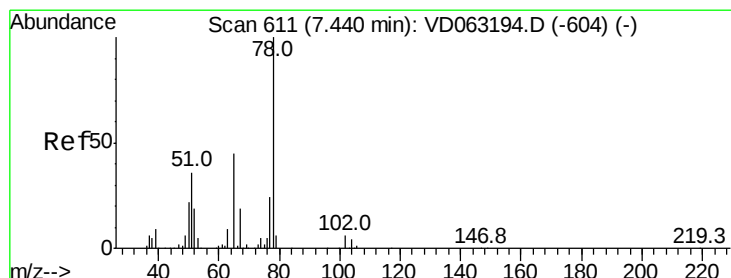
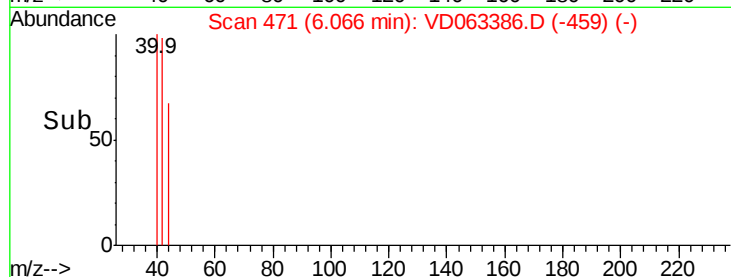
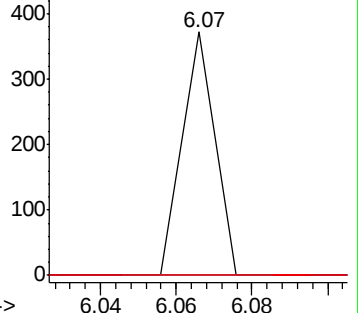
71 0.0 35.7 53.5#



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



#33

1,2-Dichloroethane-d4

Concen: 82.105 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063386.D

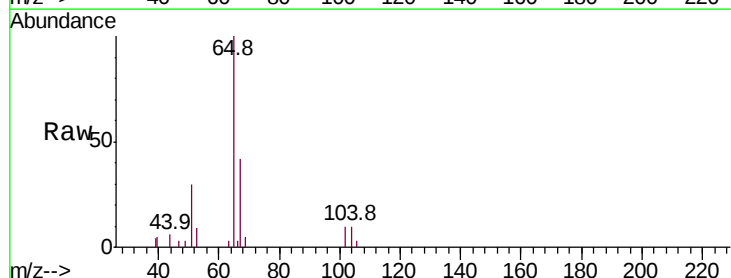
Acq: 5 Aug 2019 17:44

Tgt Ion: 65 Resp: 31384

Ion Ratio Lower Upper

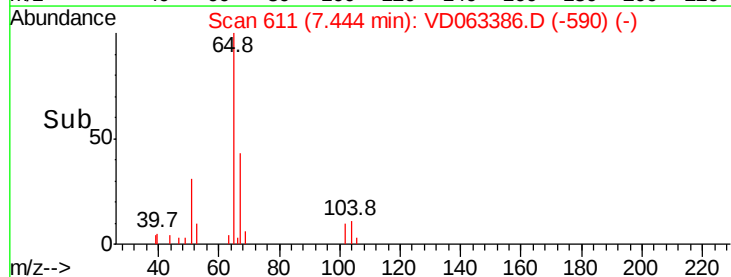
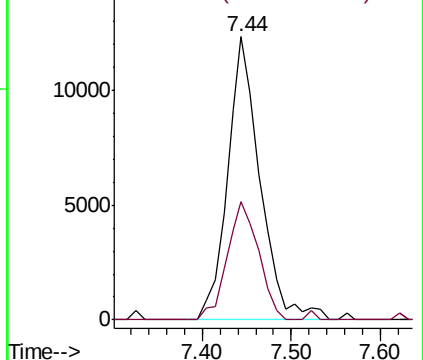
65 100

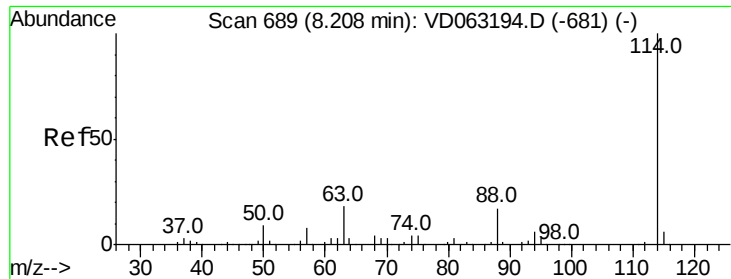
67 41.8 0.0 85.8



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: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

1S-L-(0-1)RE

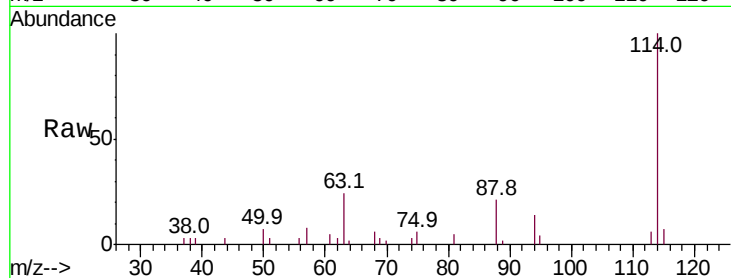
Tot Ion:114 Resp: 53805

Ion Ratio Lower Upper

114 100

63 23.6 0.0 35.2

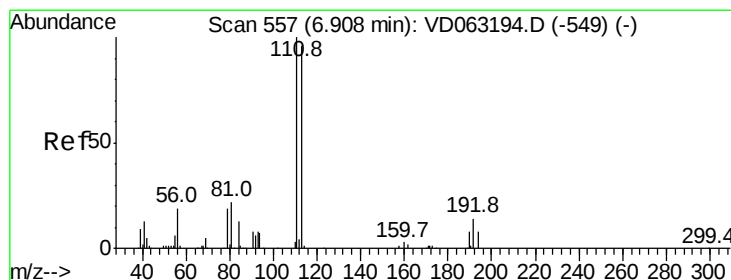
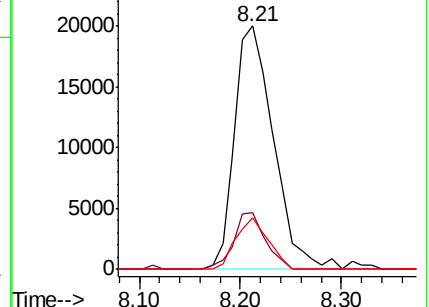
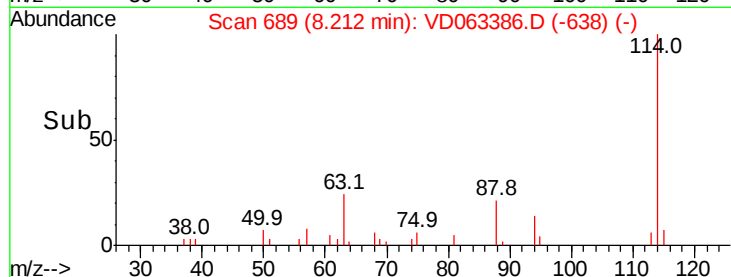
88 21.2 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 54.550 ug/l

RT: 6.91 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

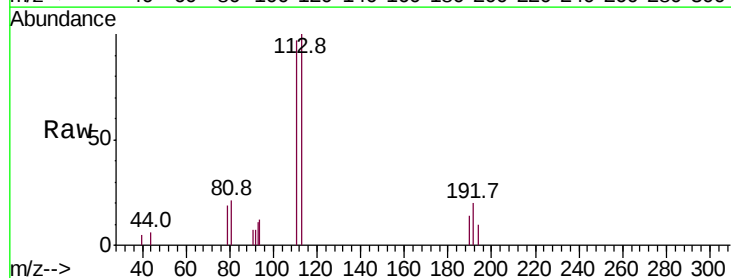
Tgt Ion:113 Resp: 25059

Ion Ratio Lower Upper

113 100

111 97.1 83.2 124.8

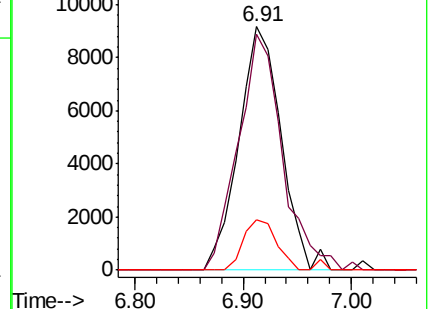
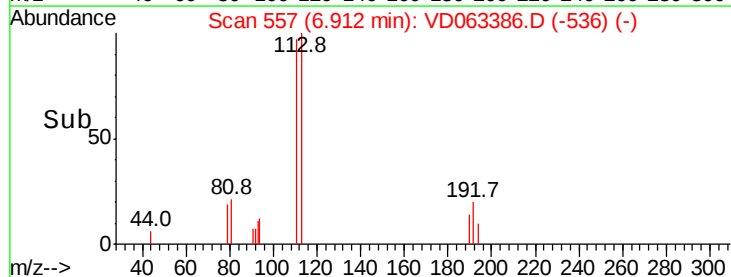
192 20.5 11.8 17.8#

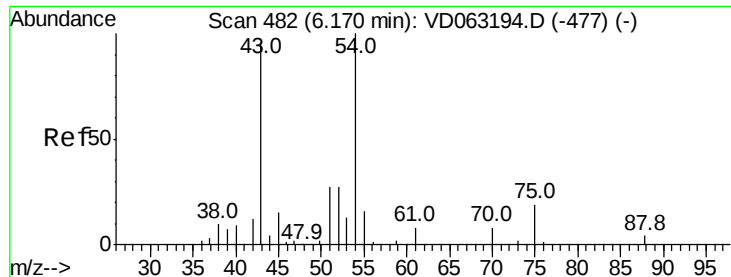


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#37

Ethyl Acetate

Concen: 13.363 ug/l

RT: 6.12 min Scan# 477

Delta R.T. -0.04 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

1S-L-(0-1)RE

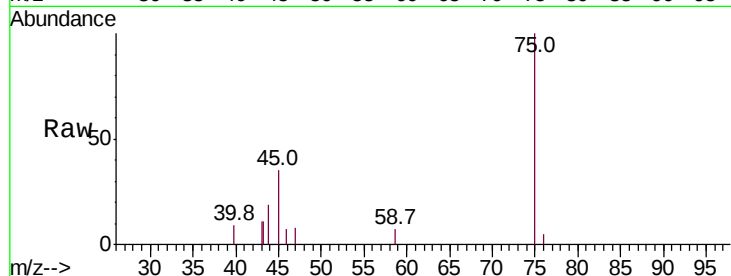
Tot Ion: 43 Resp: 2948

Ion Ratio Lower Upper

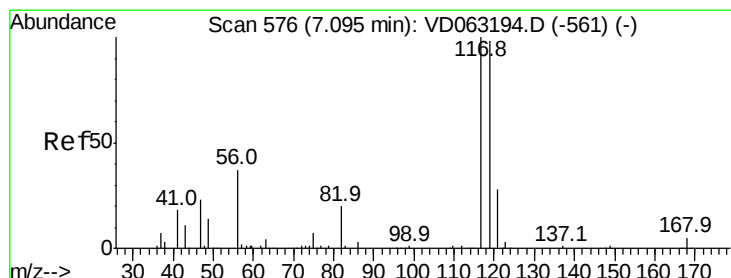
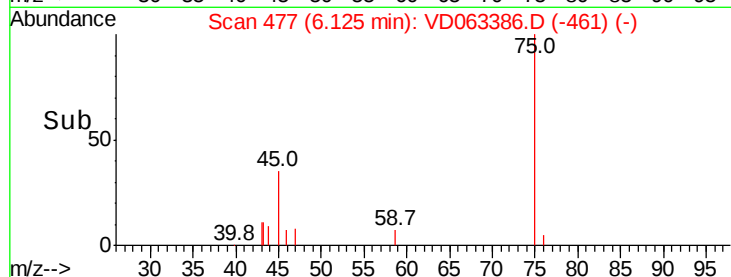
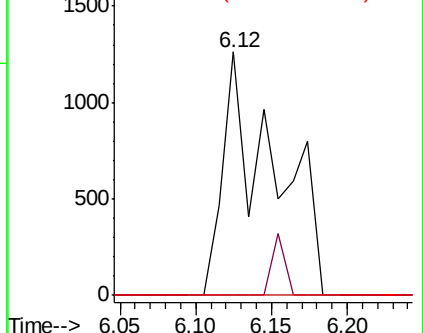
43 100

61 0.0 11.3 16.9#

70 0.0 5.1 7.7#



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: 5.765 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.06 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

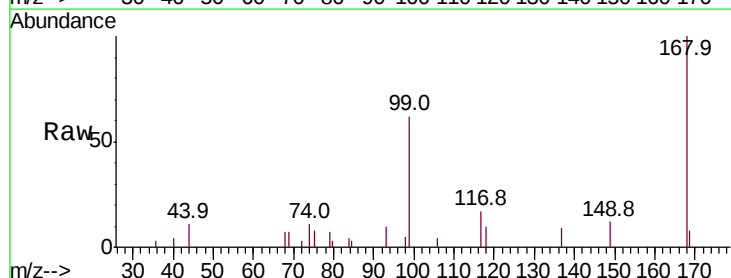
Tgt Ion: 117 Resp: 4262

Ion Ratio Lower Upper

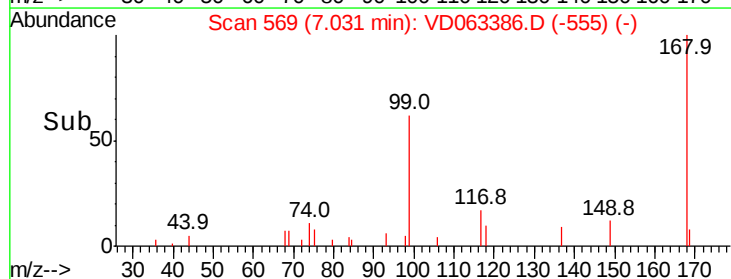
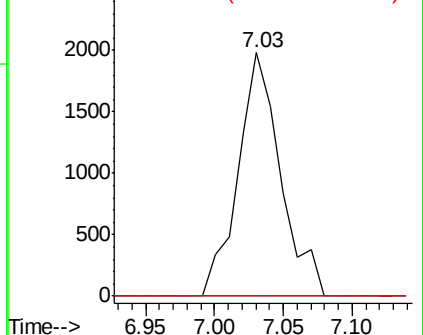
117 100

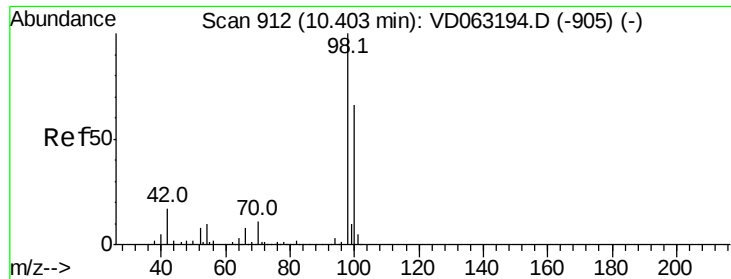
119 0.0 78.2 117.2#

121 0.0 22.1 33.1#



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





#50

Toluene-d8

Concen: 47.704 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063386.D

Acq: 5 Aug 2019 17:44

Instrument :

MSVOA_D

ClientSampleId :

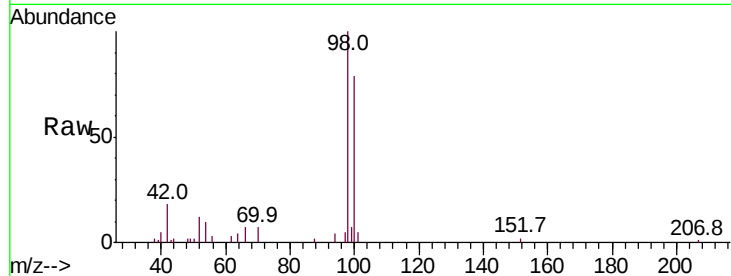
1S-L-(0-1)RE

Tot Ion: 98 Resp: 49044

Ion Ratio Lower Upper

98 100

100 79.1 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

25000

20000

15000

10000

5000

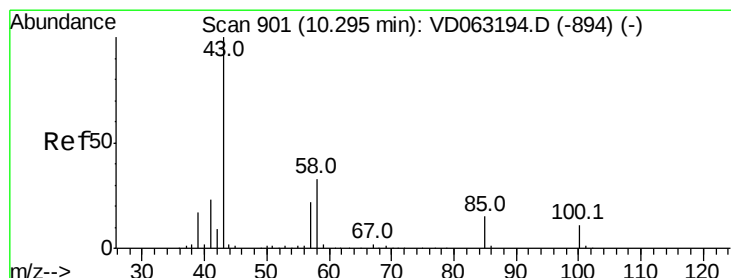
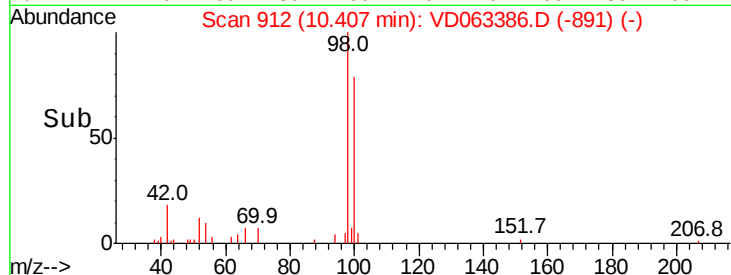
0

Time-->

10.30

10.40

10.50



#51

4-Methyl-2-Pentanone

Concen: 1.190 ug/l

RT: 10.35 min Scan# 906

Delta R.T. 0.05 min

Lab File: VD063386.D

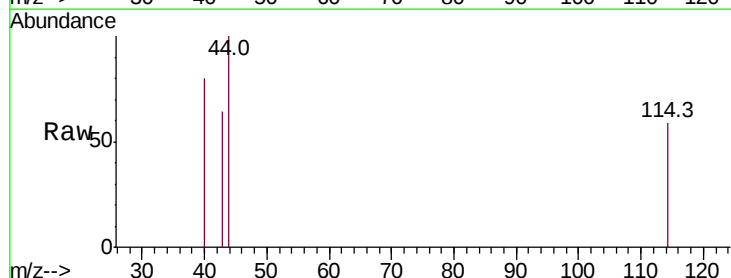
Acq: 5 Aug 2019 17:44

Tgt Ion: 43 Resp: 228

Ion Ratio Lower Upper

43 100

58 0.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

400

300

200

100

0

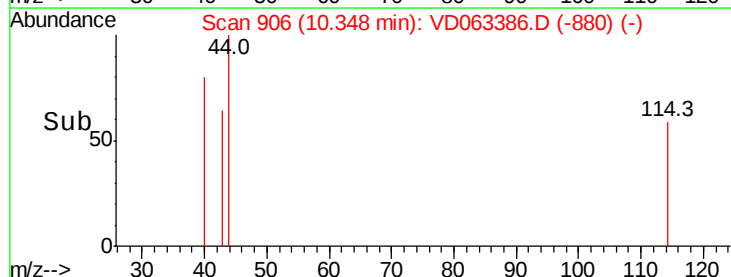
Time-->

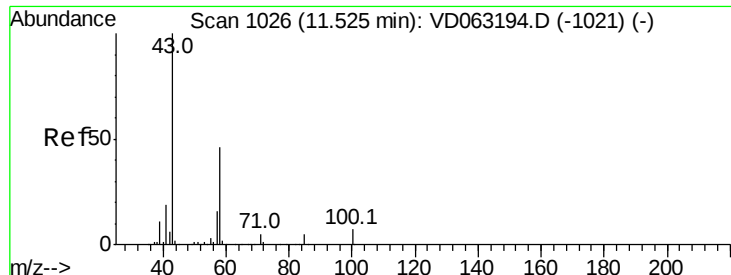
10.32

10.34

10.36

10.38

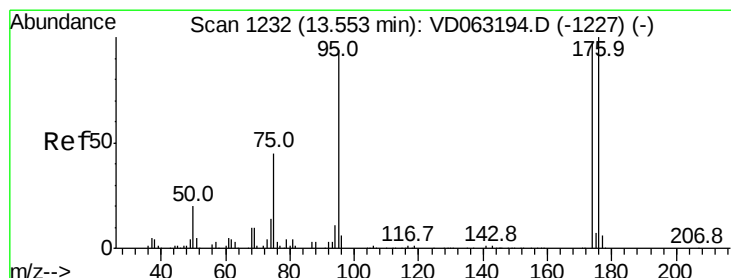
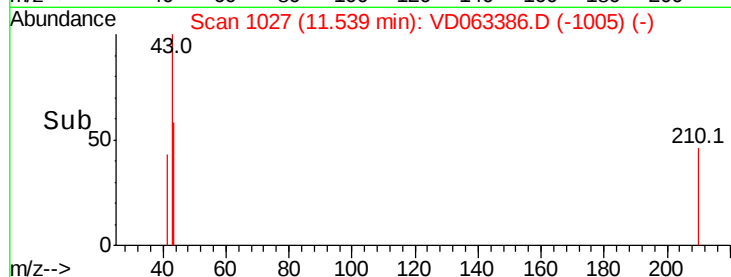
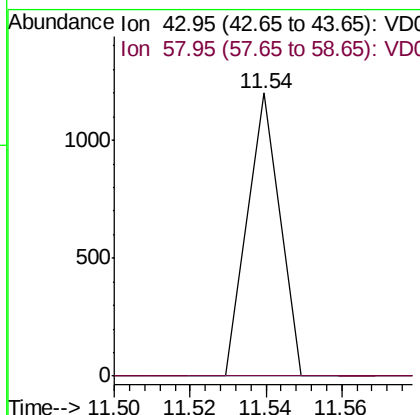
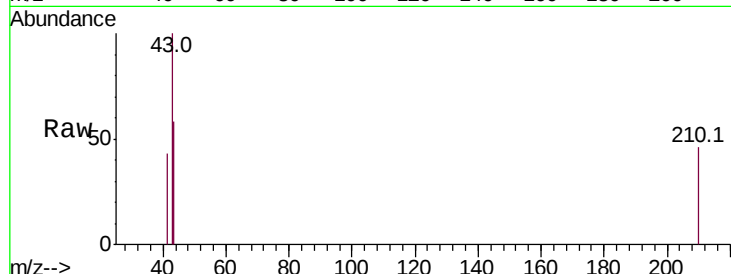




#59
2-Hexanone
Concen: 5.134 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

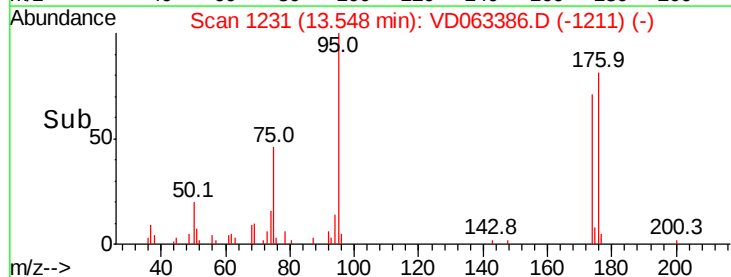
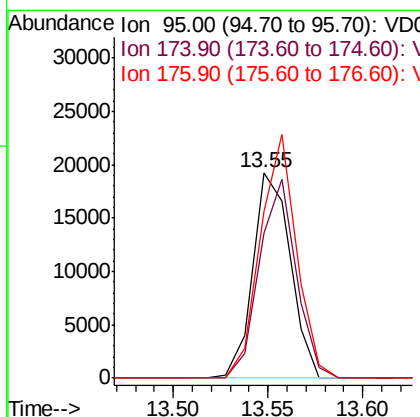
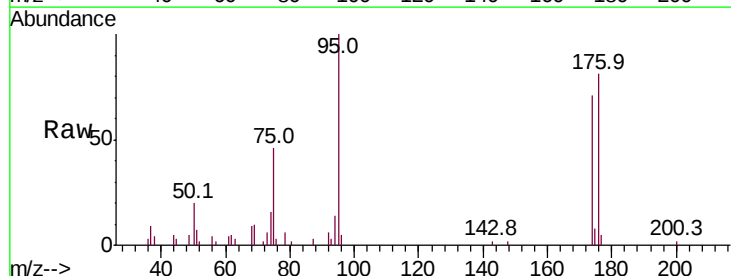
Instrument :
MSVOA_D
ClientSampleId :
1S-L-(0-1)RE

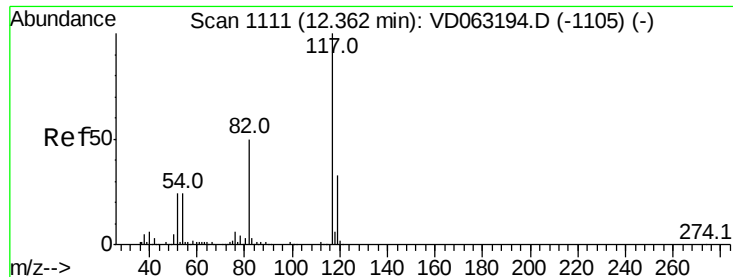
Tot Ion: 43 Resp: 709
Ion Ratio Lower Upper
43 100
58 0.0 22.9 68.5#



#62
4-Bromofluorobenzene
Concen: 56.410 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

Tgt Ion: 95 Resp: 26428
Ion Ratio Lower Upper
95 100
174 70.9 0.0 205.4
176 81.3 0.0 211.8

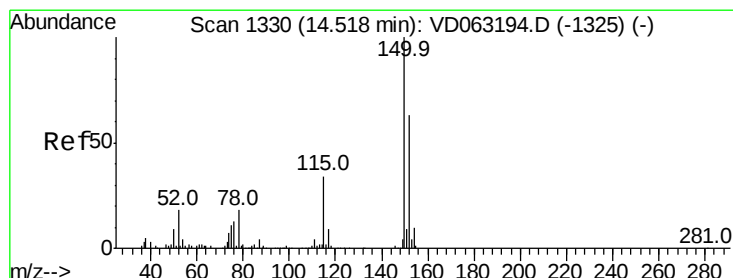
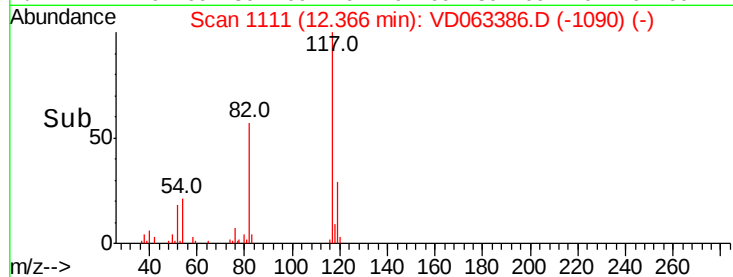
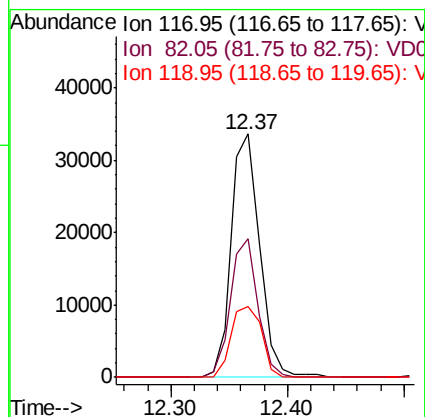
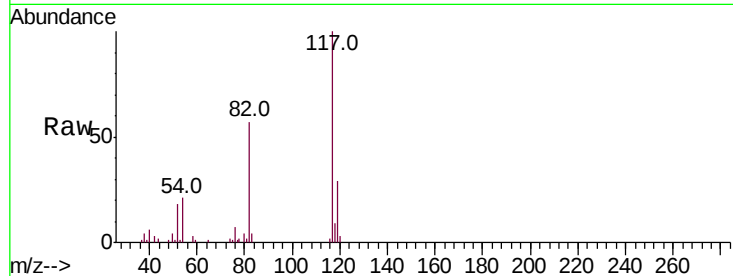




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

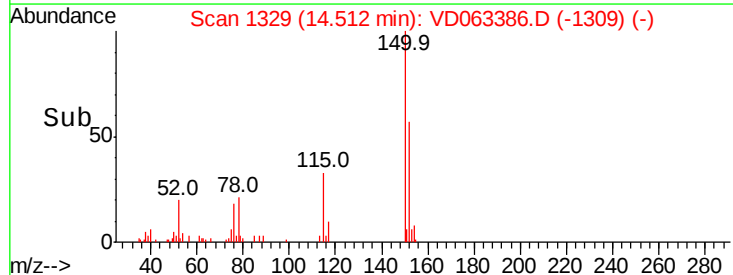
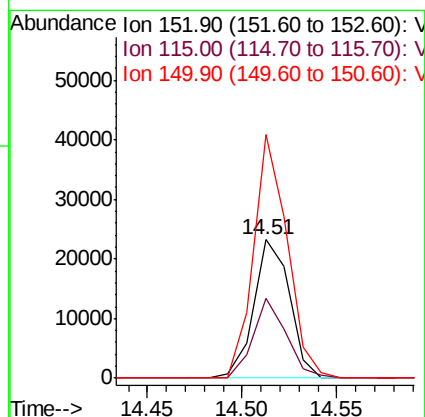
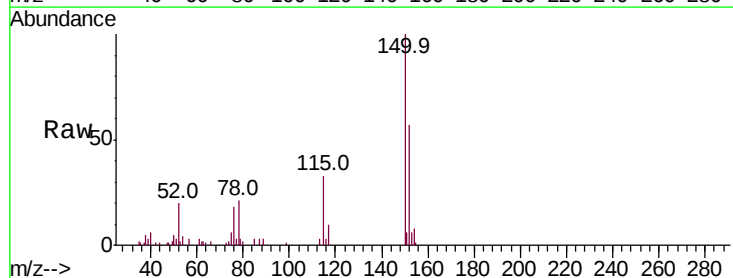
Instrument :
MSVOA_D
ClientSampleId :
1S-L-(0-1)RE

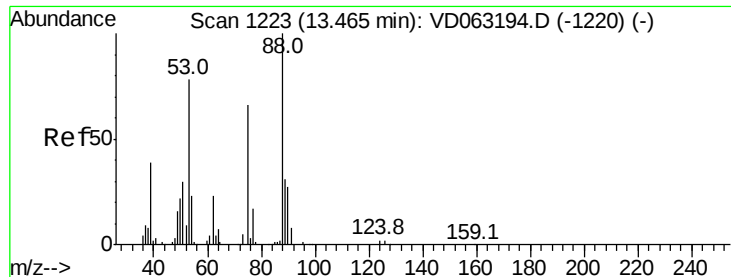
Tot Ion:117 Resp: 57090
Ion Ratio Lower Upper
117 100
82 57.1 40.1 60.1
119 29.2 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

Tgt Ion:152 Resp: 30474
Ion Ratio Lower Upper
152 100
115 57.5 27.5 82.4
150 175.9 0.0 320.6

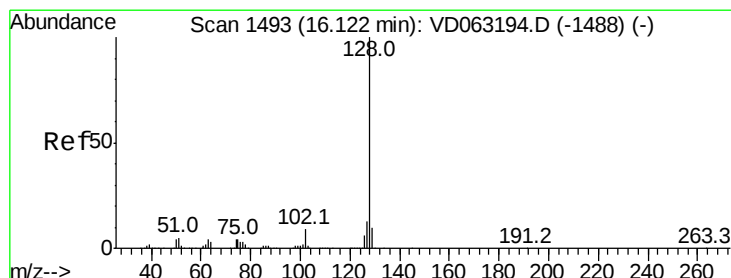
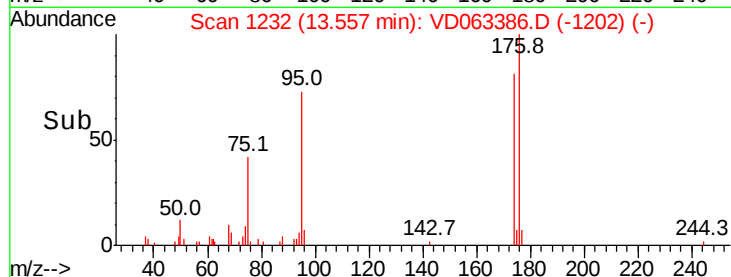
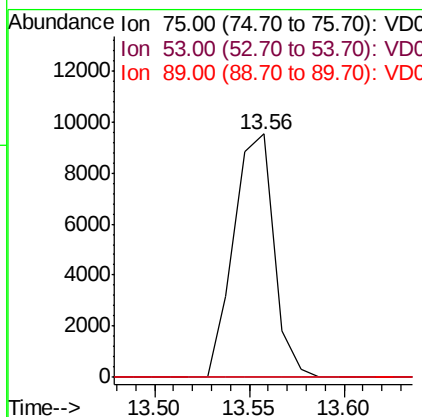
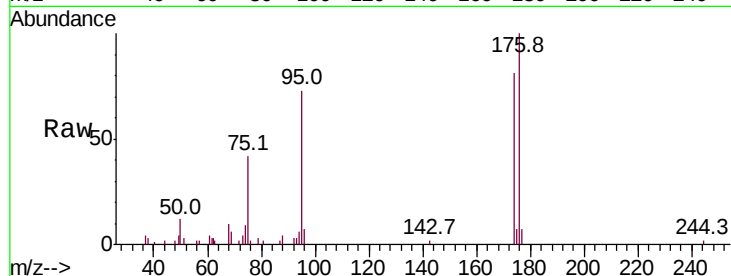




#81
trans-1,4-Dichloro-2-butene
Concen: 137.683 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.09 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

Instrument :
MSVOA_D
ClientSampleId :
1S-L-(0-1)RE

Tot Ion: 75 Resp: 13994
Ion Ratio Lower Upper
75 100
53 0.0 94.9 142.3#
89 0.0 37.4 56.0#



#95
Naphthalene
Concen: 1.414 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD063386.D
Acq: 5 Aug 2019 17:44

Tgt Ion: 128 Resp: 1333
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 7.8 11.8#

