

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\
 Data File : VD063582.D
 Acq On : 14 Aug 2019 18:58
 Operator : JC/SY
 Sample : K4319-05RE
 Misc : 5.65u/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 15 12:01:44 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	7.05	168	26069	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	44754	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	45049	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	24815	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	19017	68.25	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	136.50%	
35) Dibromofluoromethane	6.92	113	16180	42.93	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	85.86%	
50) Toluene-d8	10.41	98	34204	41.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	82.56%	
62) 4-Bromofluorobenzene	13.55	95	19793	52.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.40%	

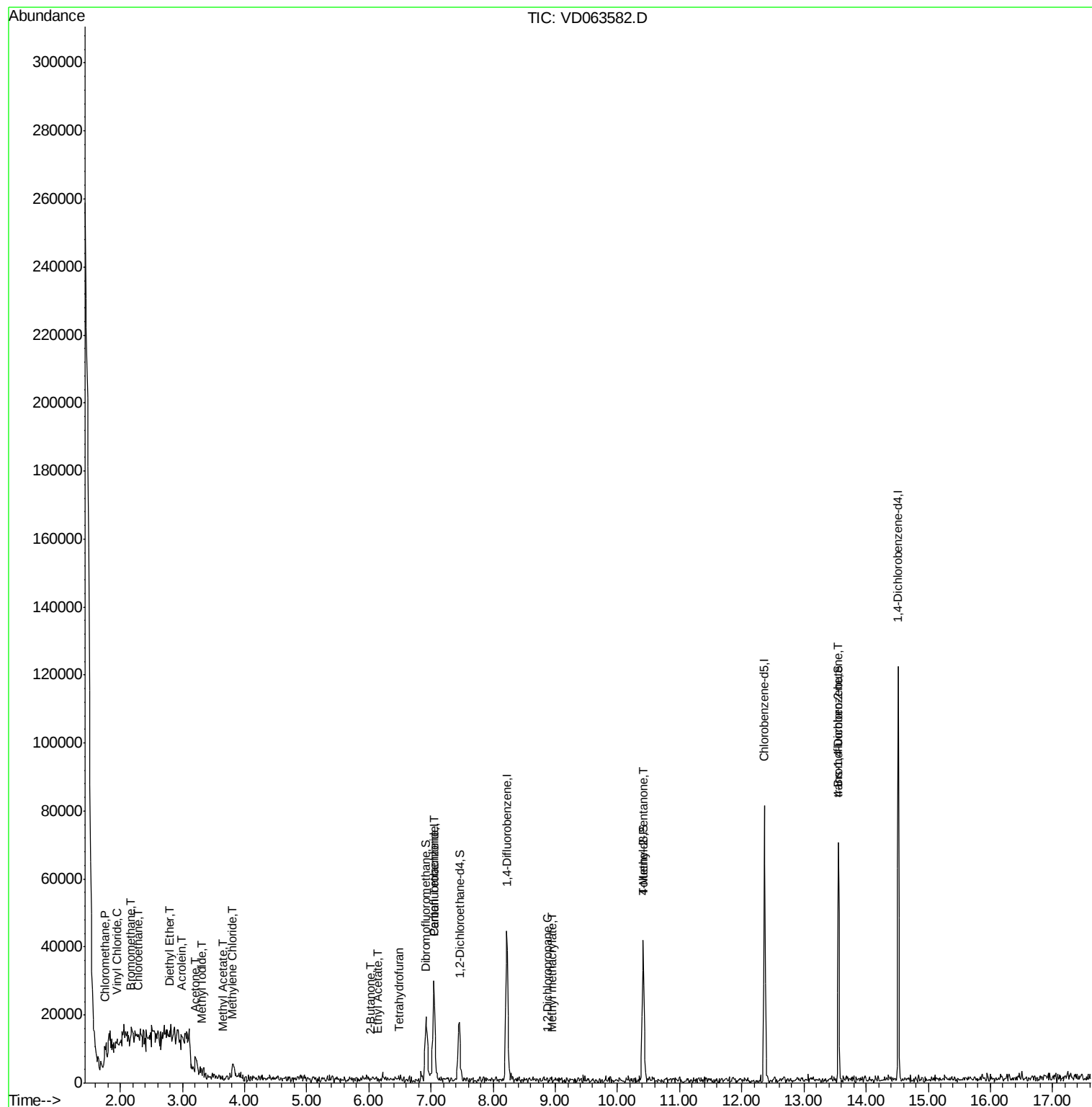
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	1086	4.407	ug/l #	66
4) Vinyl Chloride	1.95	62	306	1.251	ug/l #	42
5) Bromomethane	2.16	94	740	6.411	ug/l #	11
6) Chloroethane	2.29	64	236	2.110	ug/l	96
8) Diethyl Ether	2.78	74	210	3.100	ug/l #	1
10) Methyl Iodide	3.31	142	553	1.379	ug/l #	29
13) Acrolein	2.98	56	281	23.534	ug/l	84
16) Acetone	3.22	43	7372	130.143	ug/l #	65
18) Methyl Acetate	3.65	43	276	2.572	ug/l #	57
20) Methylene Chloride	3.82	84	1868	7.626	ug/l #	79
25) 2-Butanone	6.02	43	269	4.808	ug/l #	58
29) Tetrahydrofuran	6.47	42	380	14.577	ug/l #	52
37) Ethyl Acetate	6.15	43	185	1.116	ug/l #	73
38) Carbon Tetrachloride	7.05	117	2093	3.510	ug/l #	13
45) 1,2-Dichloropropane	8.88	63	269	1.327	ug/l #	47
48) Methyl methacrylate	8.95	41	207	1.375	ug/l #	18
51) 4-Methyl-2-Pentanone	10.42	43	194	1.277	ug/l #	40
81) trans-1,4-Dichloro-2-buten	13.55	75	8396	109.687	ug/l #	1

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

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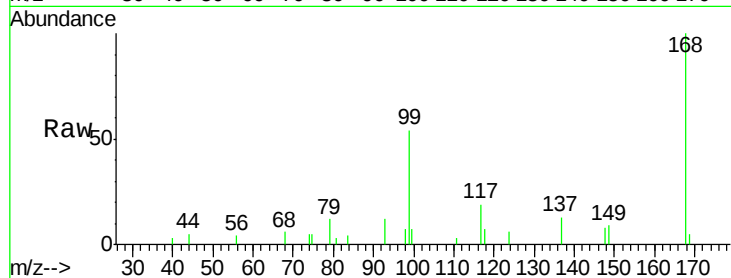




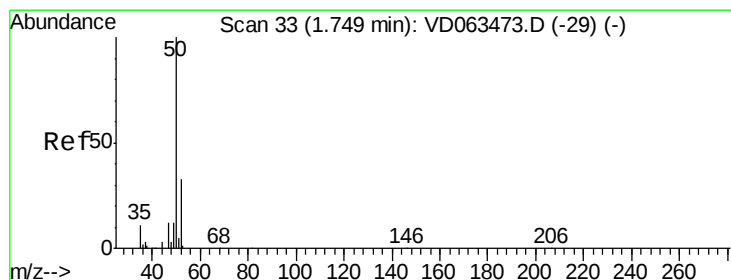
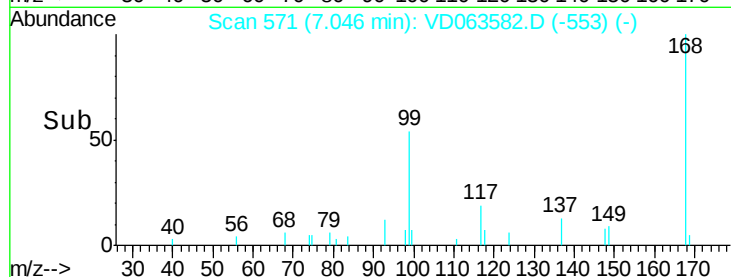
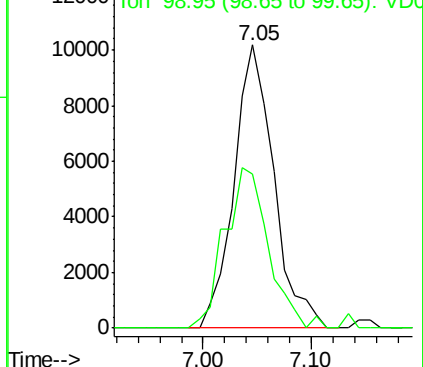
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.02 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 26069
Ion Ratio Lower Upper
168 100
99 60.8 46.7 70.1

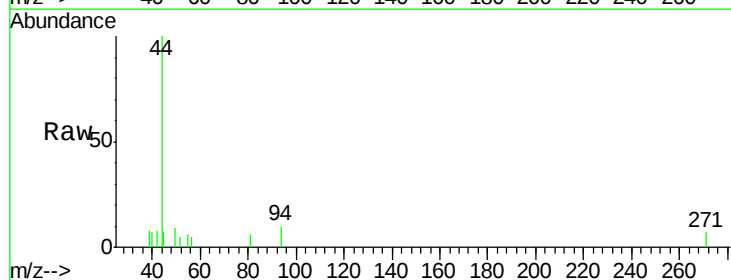


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.95 (98.65 to 99.65): VDC

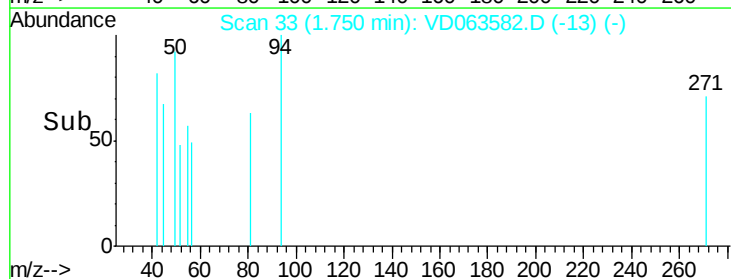
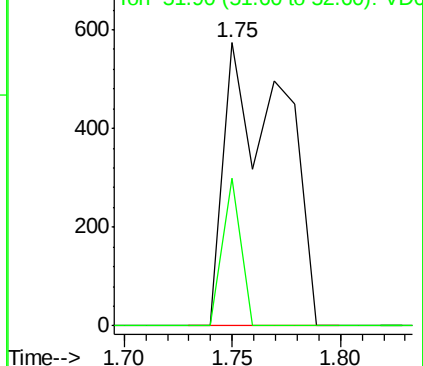


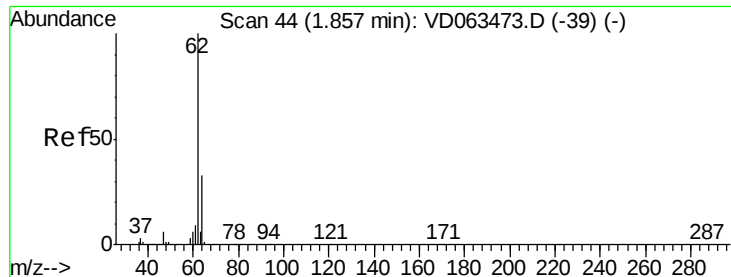
#3
Chloromethane
Concen: 4.407 ug/l
RT: 1.75 min Scan# 33
Delta R.T. 0.00 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Tgt Ion: 50 Resp: 1086
Ion Ratio Lower Upper
50 100
52 52.4 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC
Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 1.251 ug/l

RT: 1.95 min Scan# 53

Delta R.T. 0.09 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

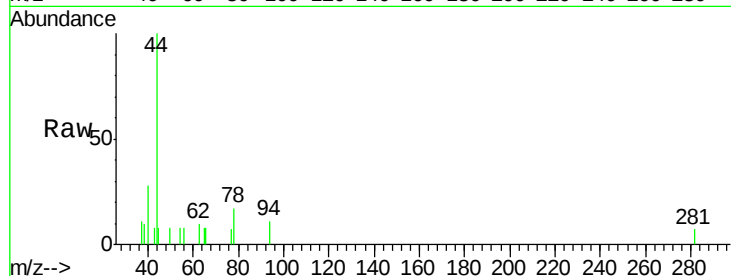
ClientSampled :

Tot Ion: 62 Resp: 306

Ion Ratio Lower Upper

62 100

64 0.0 26.4 39.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.95

500

400

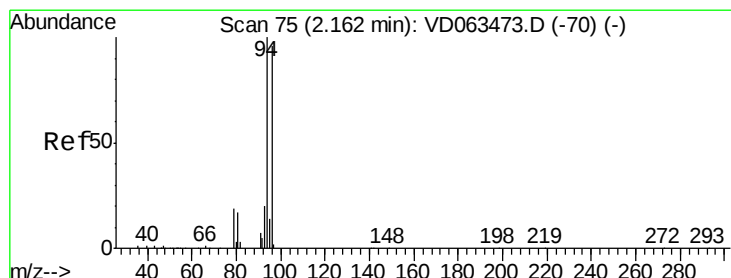
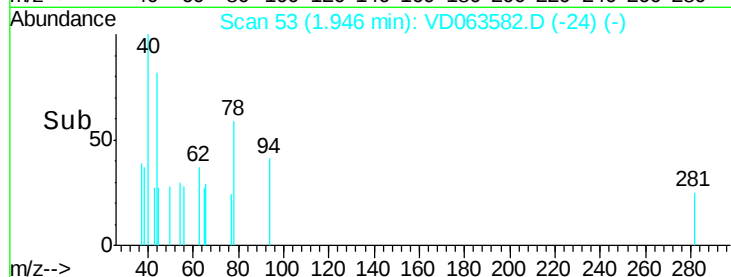
300

200

100

0

Time-->



#5

Bromomethane

Concen: 6.411 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.00 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

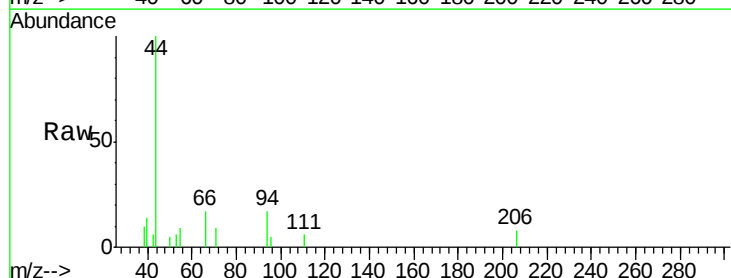
Tgt Ion: 94 Resp: 740

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



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

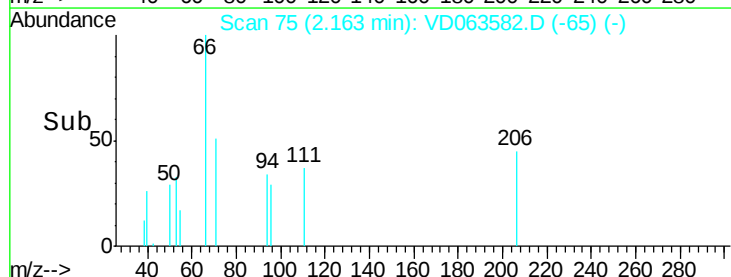
1500

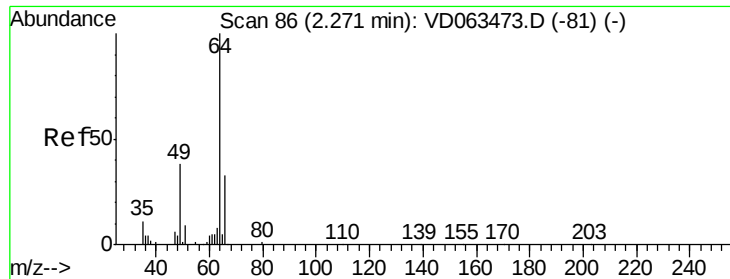
1000

500

0

Time-->





#6

Chloroethane

Concen: 2.110 ug/l

RT: 2.29 min Scan# 88

Delta R.T. 0.02 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

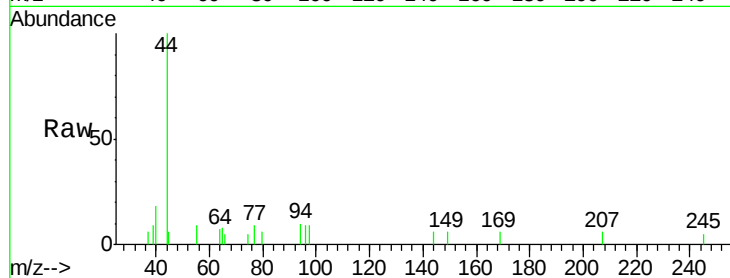
ClientSampled :

Tot Ion: 64 Resp: 236

Ion Ratio Lower Upper

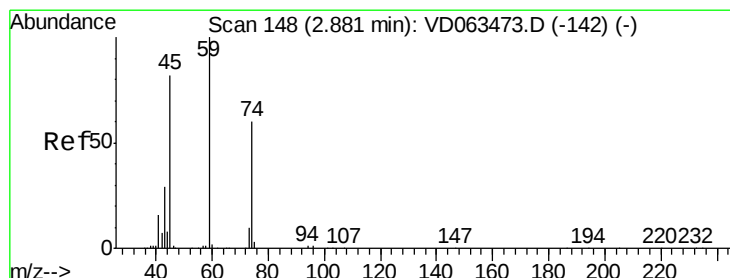
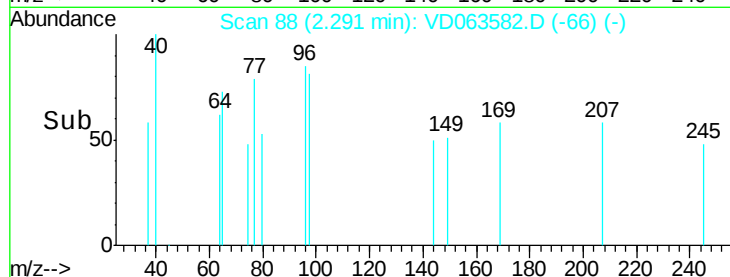
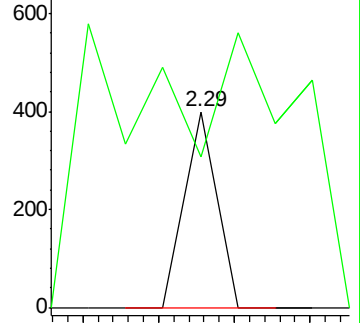
64 100

66 35.3 26.3 39.5



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 3.100 ug/l

RT: 2.78 min Scan# 138

Delta R.T. -0.10 min

Lab File: VD063582.D

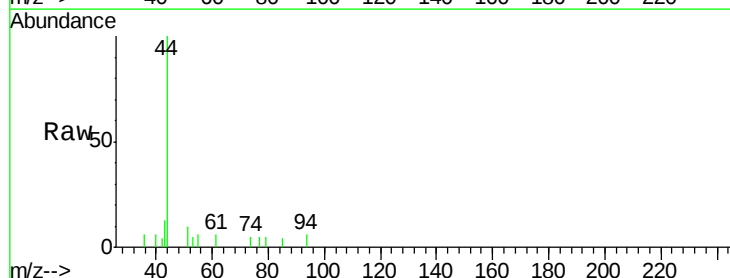
Acq: 14 Aug 2019 18:58

Tgt Ion: 74 Resp: 210

Ion Ratio Lower Upper

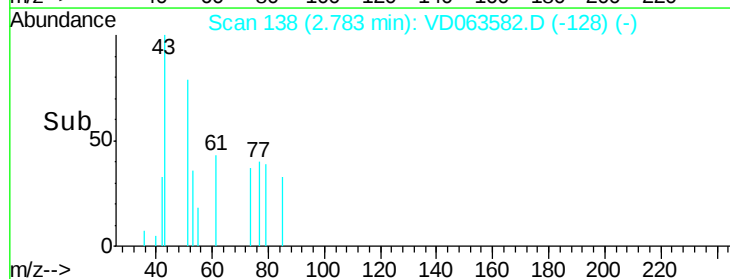
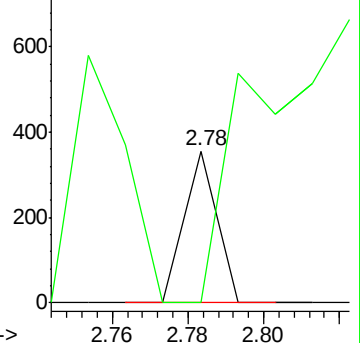
74 100

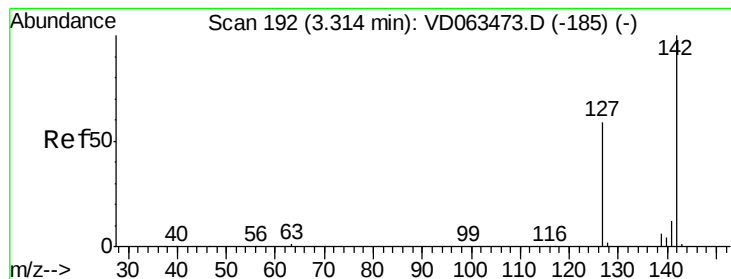
45 0.0 68.5 205.5#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#10

Methvl Iodide

Concen: 1.379 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.00 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

ClientSampleId :

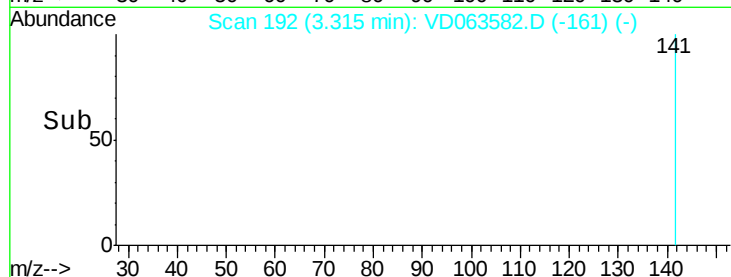
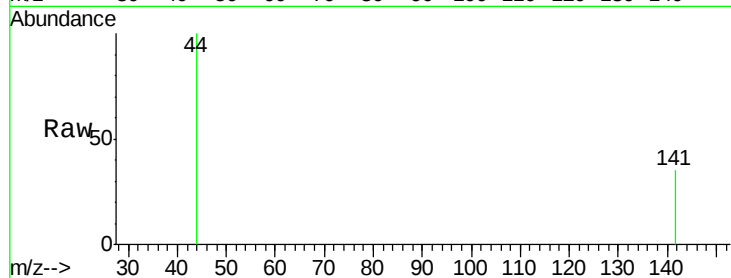
Tot Ion:142 Resp: 553

Ion Ratio Lower Upper

142 100

127 0.0 47.2 70.8#

141 0.0 9.8 14.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

Time-->

3.28 3.30 3.32

3.31

3.32

3.33

3.34

3.35

3.36

3.37

3.38

3.39

3.40

3.41

3.42

3.43

3.44

3.45

3.46

3.47

3.48

3.49

3.50

3.51

3.52

3.53

3.54

3.55

3.56

3.57

3.58

3.59

3.60

3.61

3.62

3.63

3.64

3.65

3.66

3.67

3.68

3.69

3.70

3.71

3.72

3.73

3.74

3.75

3.76

3.77

3.78

3.79

3.80

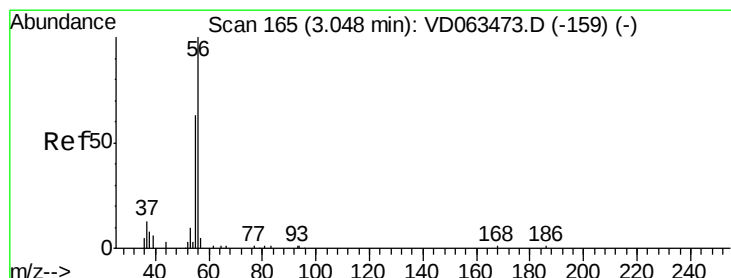
3.81

3.82

3.83

3.84

3.85



#13

Acrolein

Concen: 23.534 ug/l

RT: 2.98 min Scan# 158

Delta R.T. -0.07 min

Lab File: VD063582.D

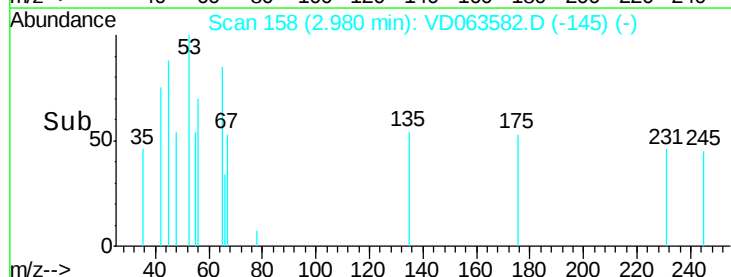
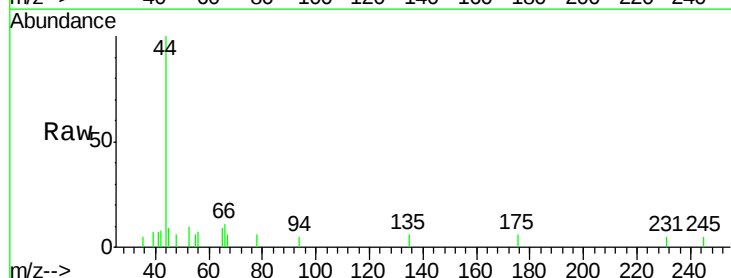
Acq: 14 Aug 2019 18:58

Tgt Ion: 56 Resp: 281

Ion Ratio Lower Upper

56 100

55 76.5 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): V

Ion 55.00 (54.70 to 55.70): V

Time-->

2.96 2.98 3.00

2.97

2.99

3.01

3.02

3.03

3.04

3.05

3.06

3.07

3.08

3.09

3.10

3.11

3.12

3.13

3.14

3.15

3.16

3.17

3.18

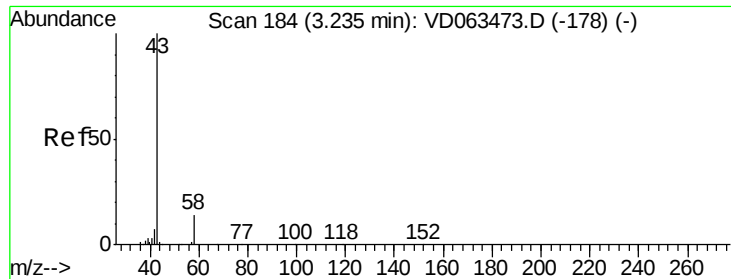
3.19

3.20

3.21

3.22

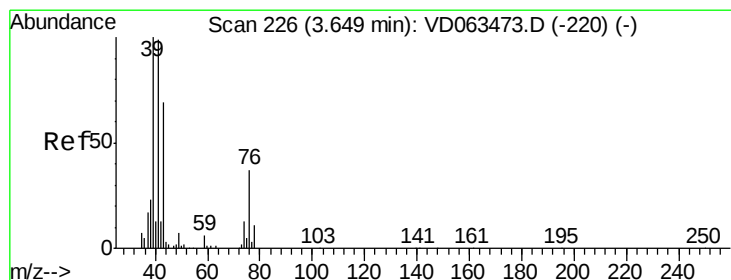
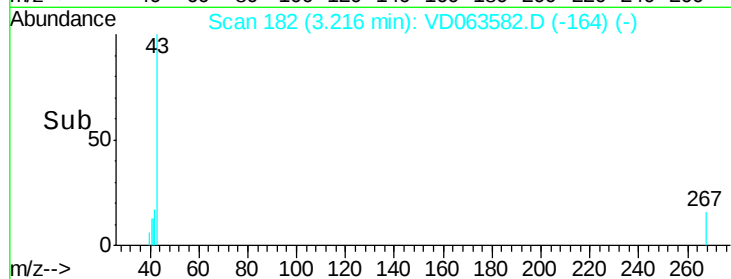
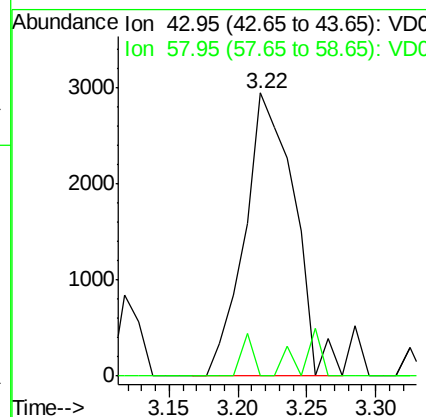
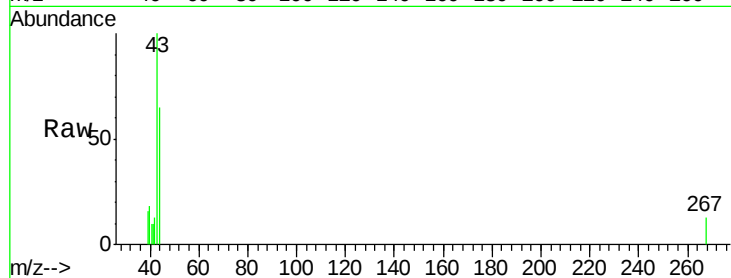
3.23



#16
Acetone
Concen: 130.143 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.02 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

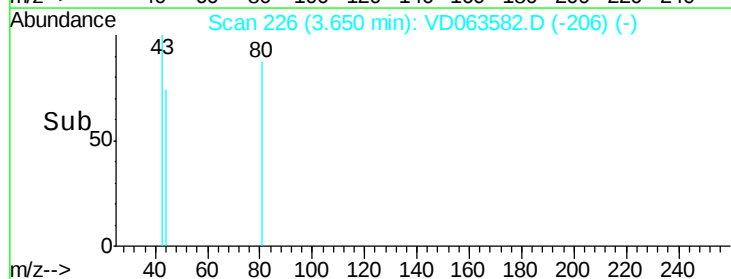
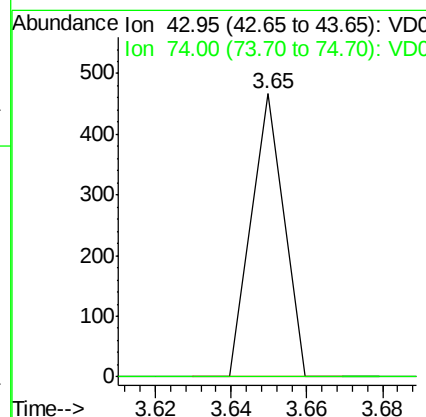
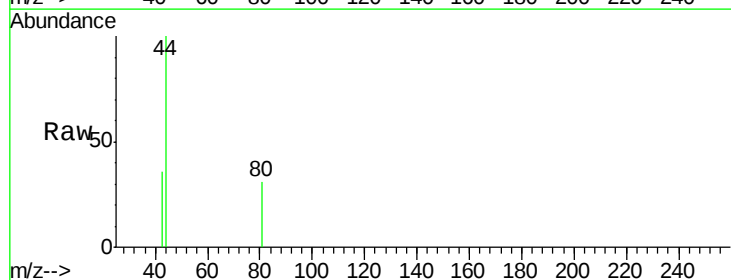
Instrument :
MSVOA_D
ClientSampleId :

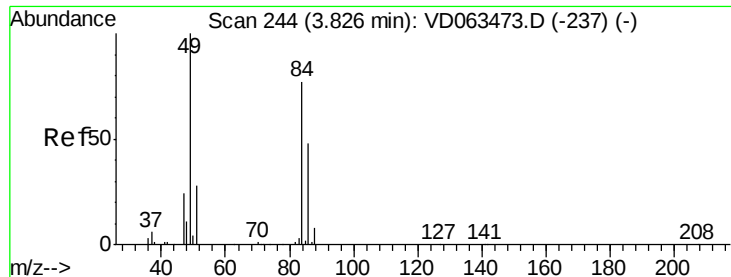
Tot Ion: 43 Resp: 7372
Ion Ratio Lower Upper
43 100
58 0.0 11.4 17.2#



#18
Methyl Acetate
Concen: 2.572 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.00 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Tgt Ion: 43 Resp: 276
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#

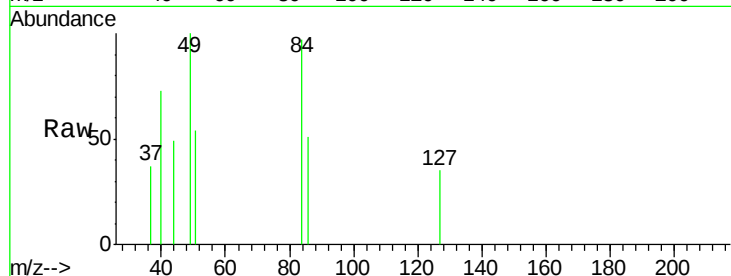




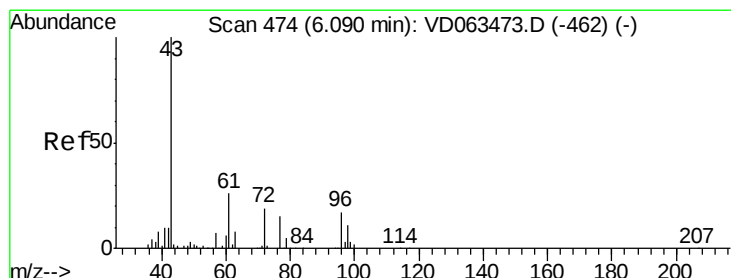
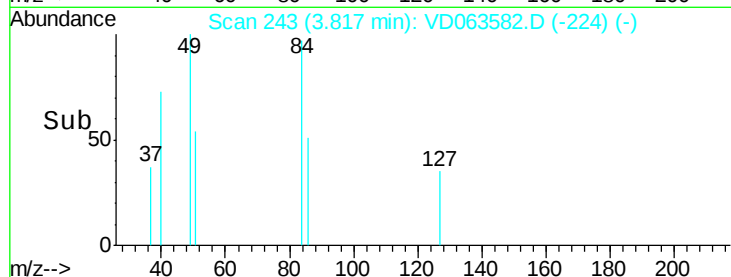
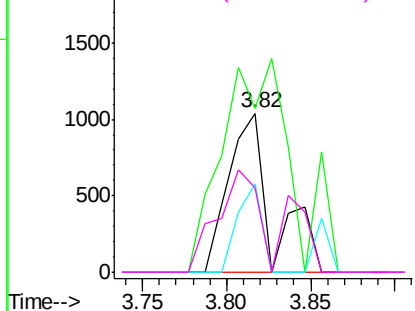
#20
Methylene Chloride
Concen: 7.626 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 1868
Ion Ratio Lower Upper
84 100
49 103.0 103.4 155.2#
51 55.5 28.5 42.7#
86 52.9 49.4 74.2

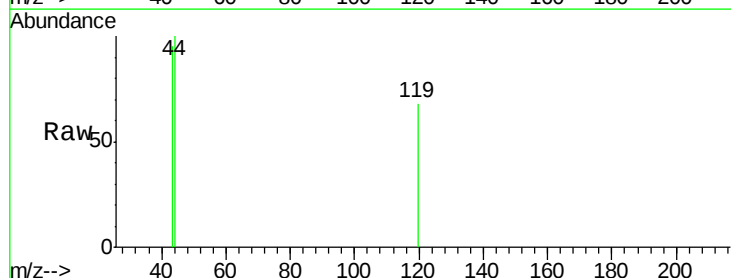


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

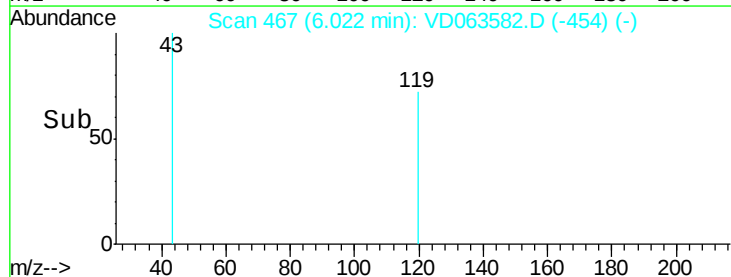
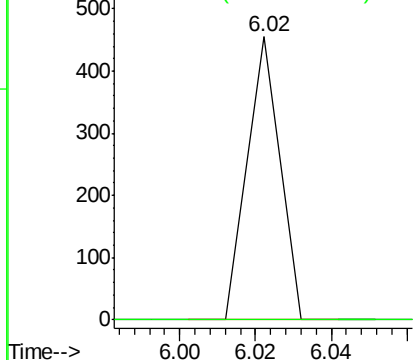


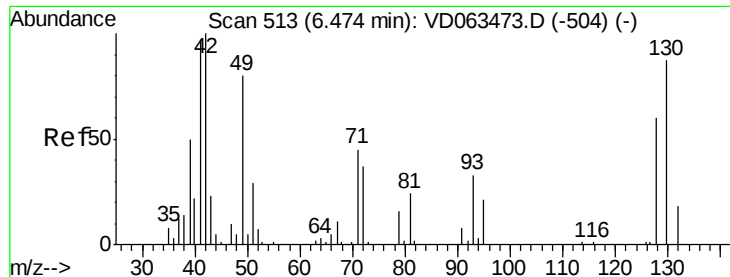
#25
2-Butanone
Concen: 4.808 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.07 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Tgt Ion: 43 Resp: 269
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#



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





#29

Tetrahydrofuran

Concen: 14.577 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.00 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

ClientSampled :

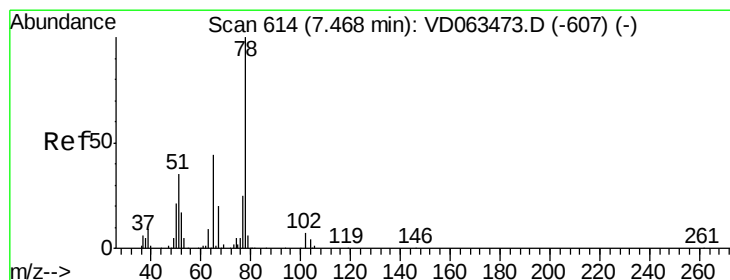
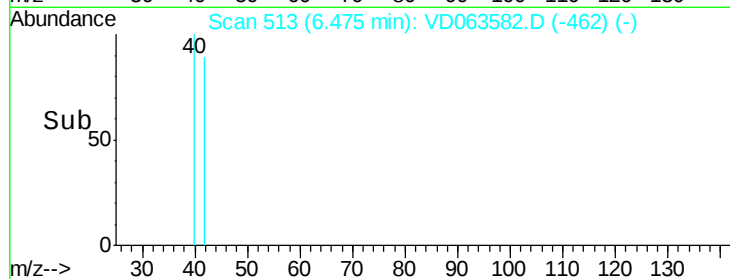
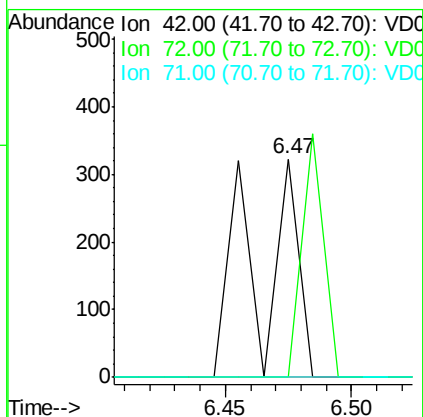
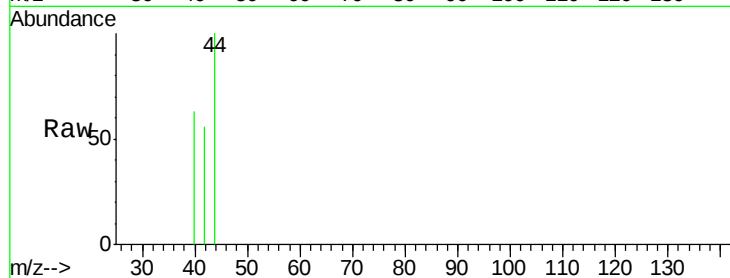
Tot Ion: 42 Resp: 380

Ion Ratio Lower Upper

42 100

72 56.1 31.5 47.3#

71 0.0 33.8 50.8#



#33

1,2-Dichloroethane-d4

Concen: 68.245 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063582.D

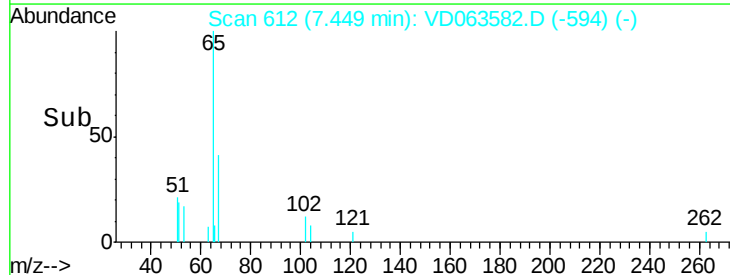
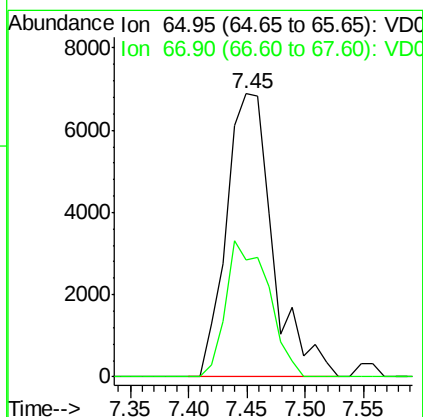
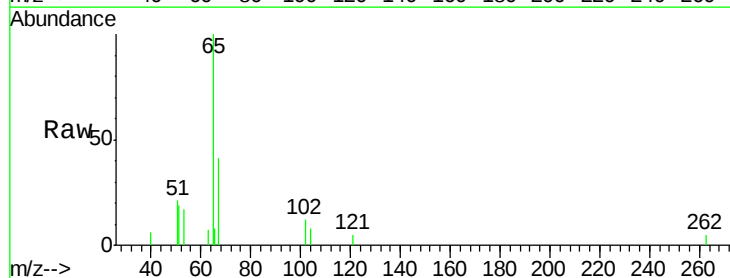
Acq: 14 Aug 2019 18:58

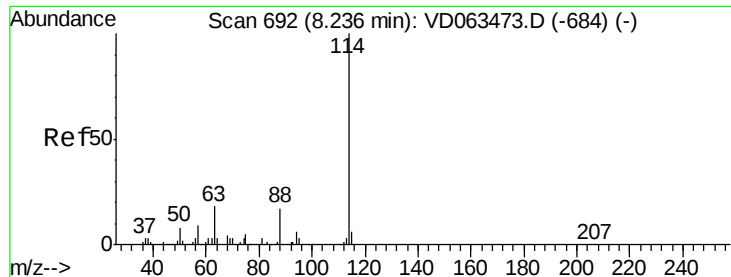
Tgt Ion: 65 Resp: 19017

Ion Ratio Lower Upper

65 100

67 41.2 0.0 89.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

ClientSampleId :

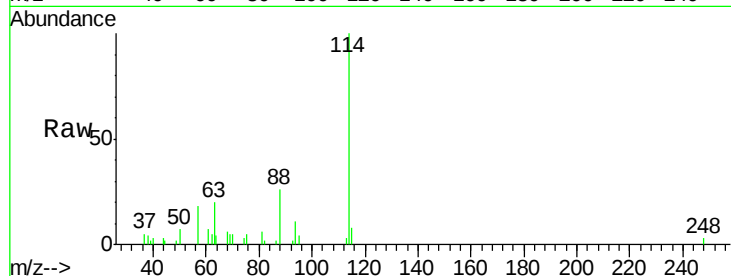
Tot Ion:114 Resp: 44754

Ion Ratio Lower Upper

114 100

63 20.3 0.0 36.2

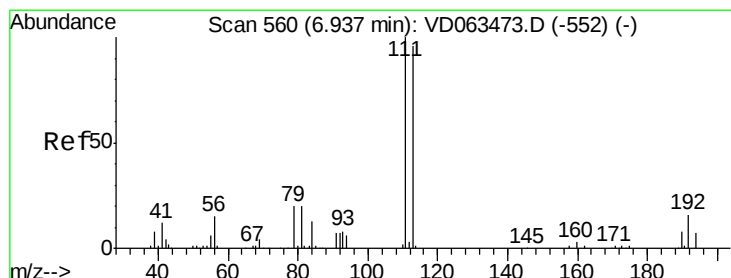
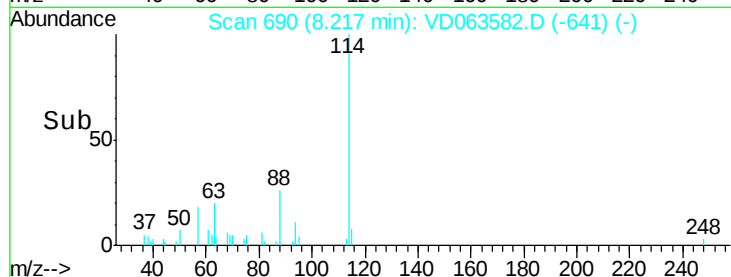
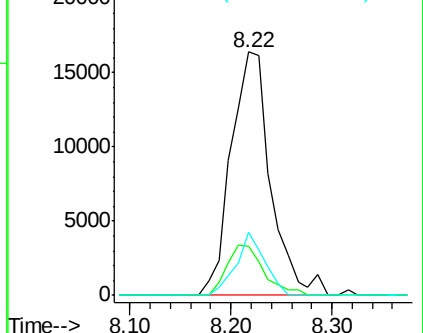
88 25.8 0.0 35.0



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: 42.927 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

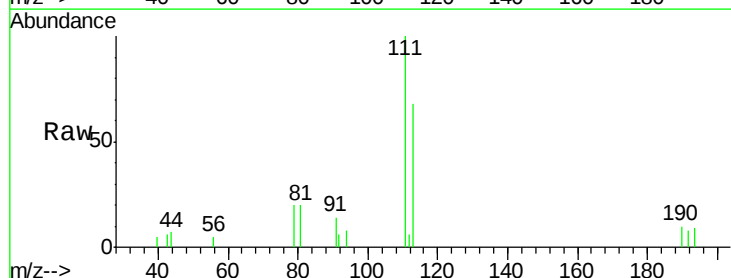
Tgt Ion:113 Resp: 16180

Ion Ratio Lower Upper

113 100

111 146.6 83.1 124.7#

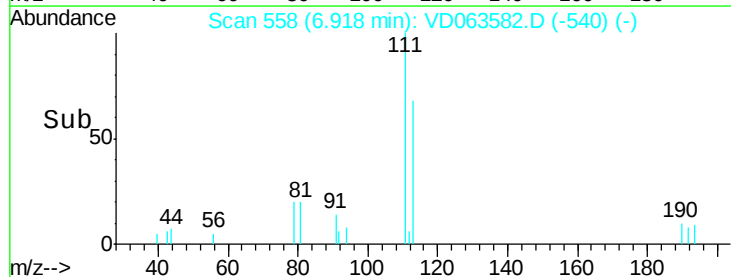
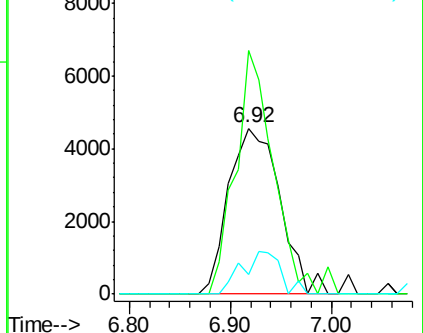
192 11.6 13.1 19.7#

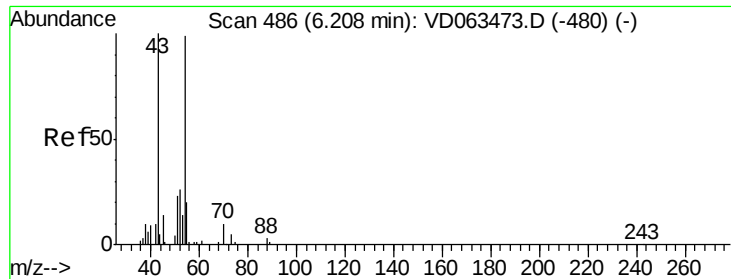


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

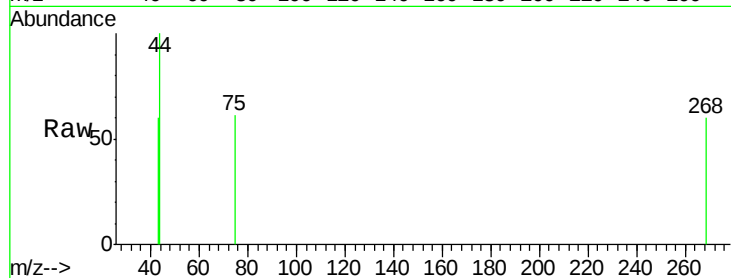




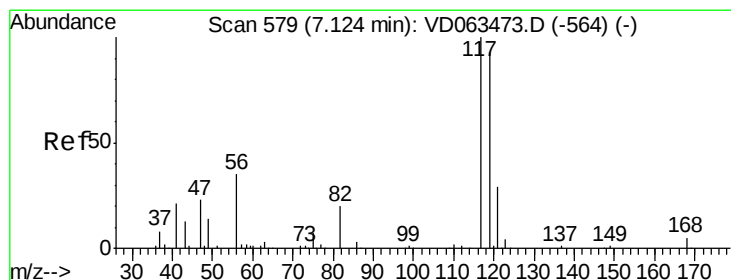
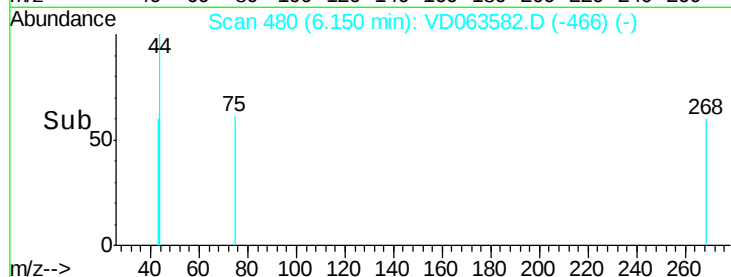
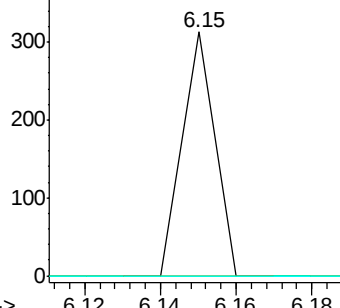
#37
Ethyl Acetate
Concen: 1.116 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.06 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 185
Ion Ratio Lower Upper
43 100
61 0.0 9.0 13.6#
70 0.0 6.9 10.3#

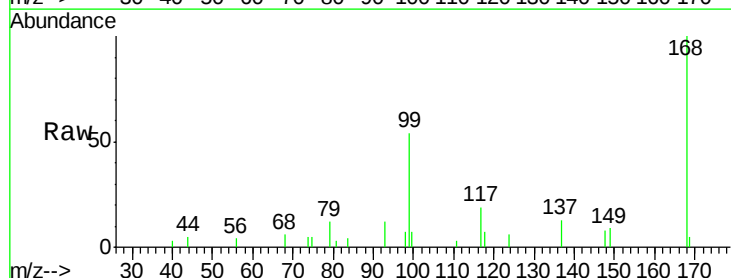


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

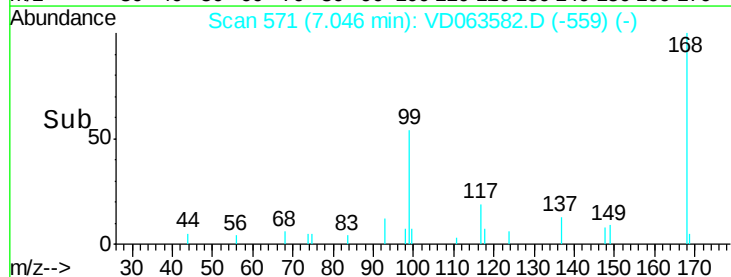
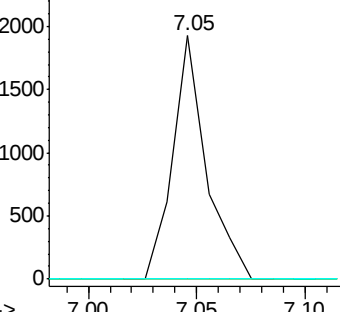


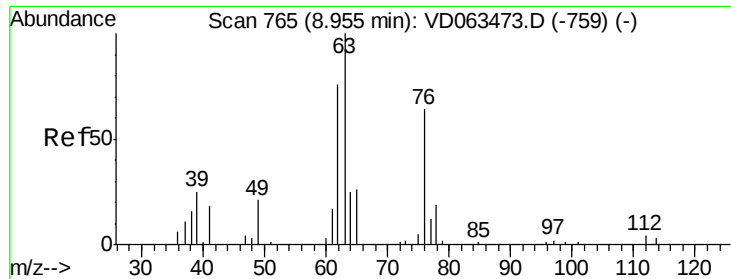
#38
Carbon Tetrachloride
Concen: 3.510 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.08 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Tgt Ion: 117 Resp: 2093
Ion Ratio Lower Upper
117 100
119 0.0 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





#45

1,2-Dichloropropane

Concen: 1.327 ug/l

RT: 8.88 min Scan# 757

Delta R.T. -0.08 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

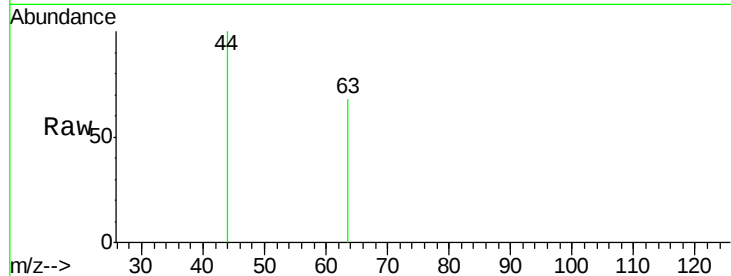
ClientSampleId :

Tot Ion: 63 Resp: 269

Ion Ratio Lower Upper

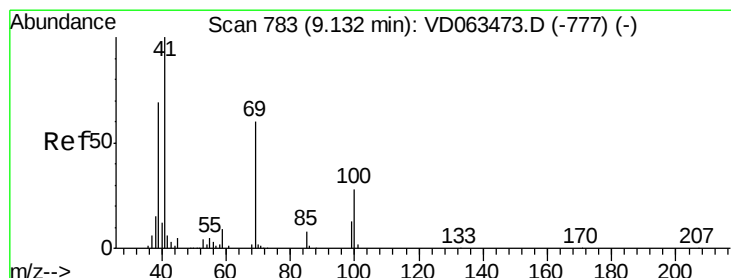
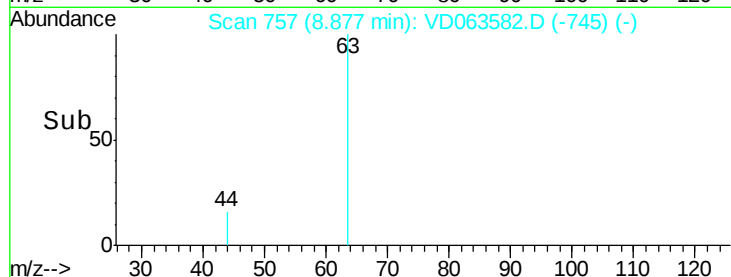
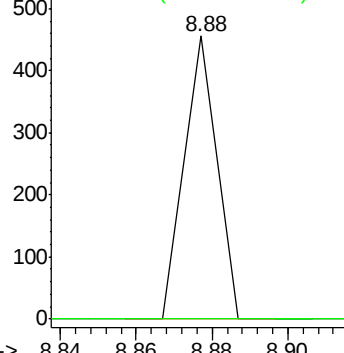
63 100

65 0.0 22.5 33.7#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#48

Methyl methacrylate

Concen: 1.375 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.19 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

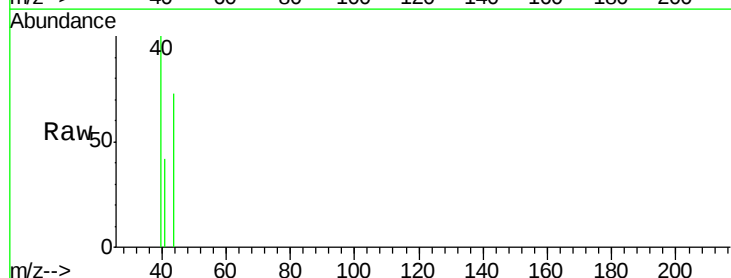
Tgt Ion: 41 Resp: 207

Ion Ratio Lower Upper

41 100

69 0.0 47.6 71.4#

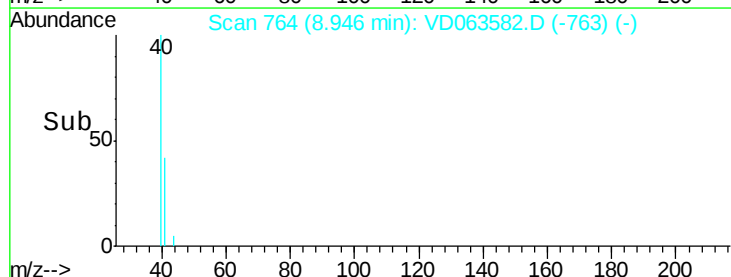
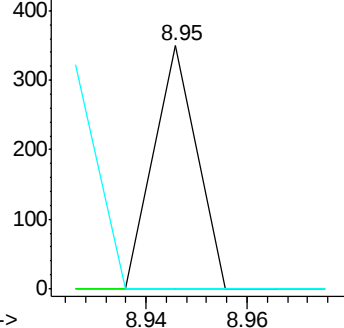
39 0.0 55.7 83.5#

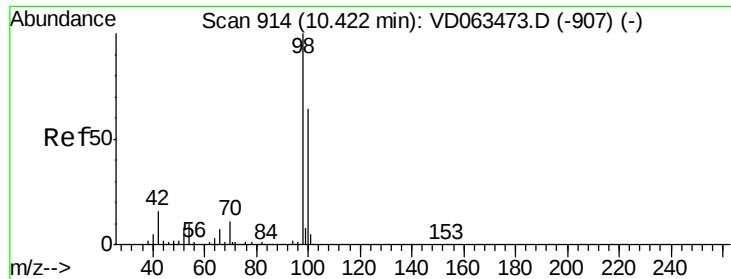


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#50

Toluene-d8

Concen: 41.275 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

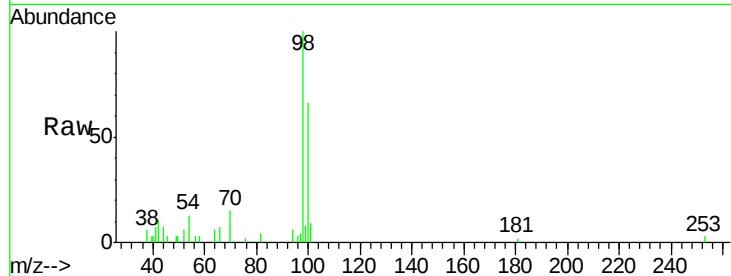
ClientSampleId :

Tot Ion: 98 Resp: 34204

Ion Ratio Lower Upper

98 100

100 65.6 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VD063473.D (-907) (-)

Ion 100.05 (99.75 to 100.75): VD063473.D (-907) (-)

10.41

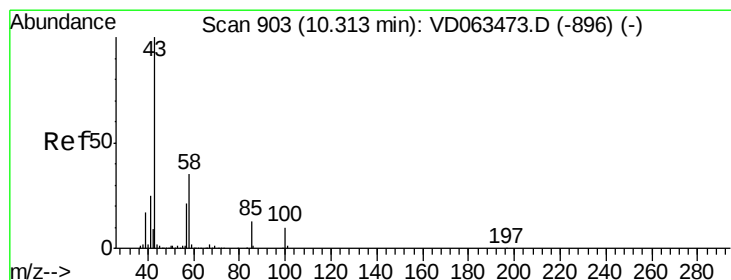
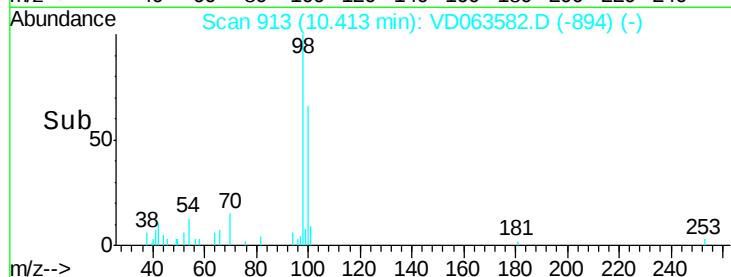
15000

10000

5000

0

Time--> 10.30 10.40 10.50



#51

4-Methyl-2-Pentanone

Concen: 1.277 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.11 min

Lab File: VD063582.D

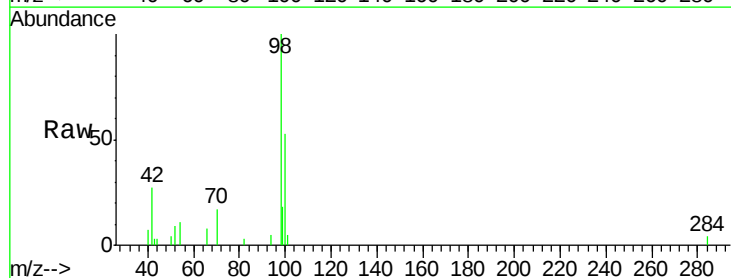
Acq: 14 Aug 2019 18:58

Tgt Ion: 43 Resp: 194

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#



Abundance Ion 42.95 (42.65 to 43.65): VD063582.D (-883) (-)

Ion 57.95 (57.65 to 58.65): VD063582.D (-883) (-)

10.42

400

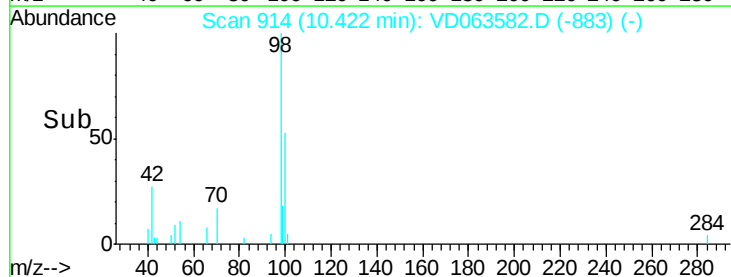
300

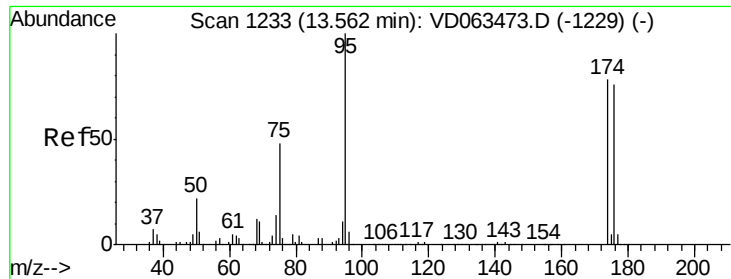
200

100

0

Time--> 10.40 10.42 10.44

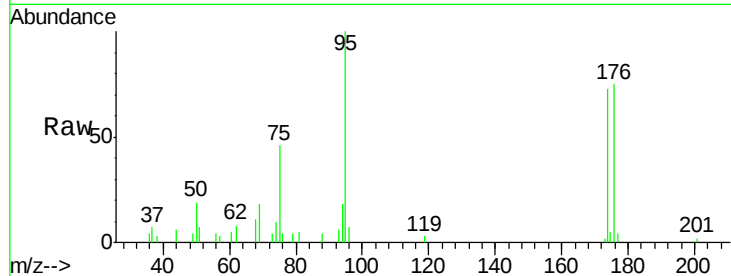




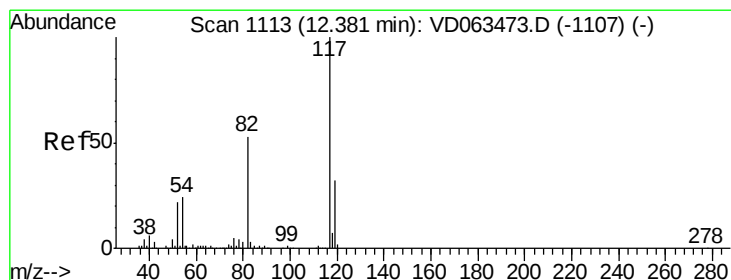
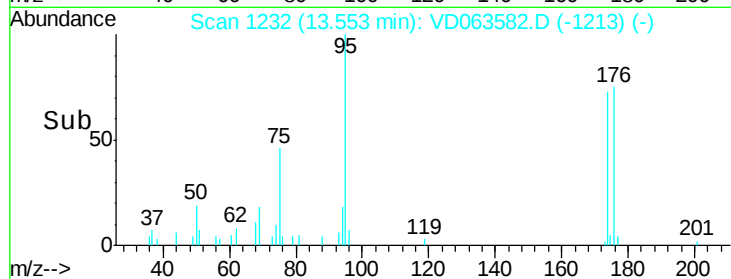
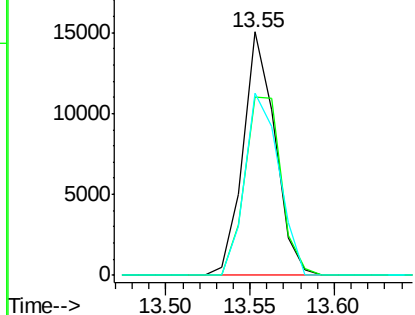
#62
4-Bromofluorobenzene
Concen: 52.698 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 19793
Ion Ratio Lower Upper
95 100
174 78.1 0.0 155.4
176 74.6 0.0 152.4

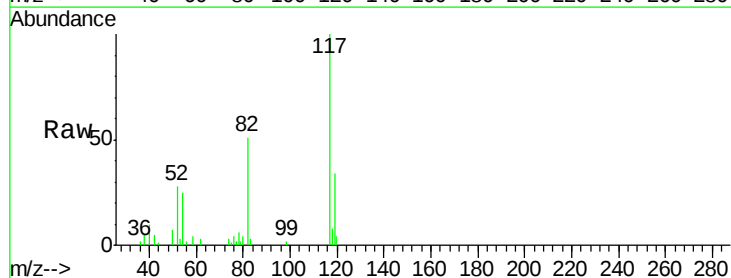


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

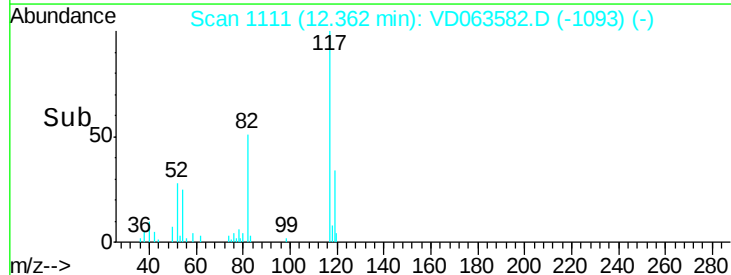
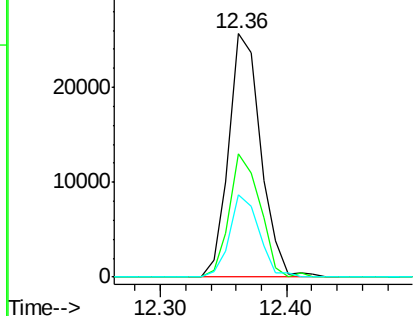


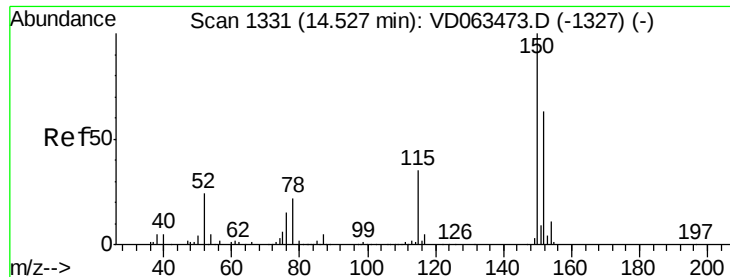
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063582.D
Acq: 14 Aug 2019 18:58

Tgt Ion: 117 Resp: 45049
Ion Ratio Lower Upper
117 100
82 50.8 42.0 63.0
119 33.9 25.4 38.0



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: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

Instrument :

MSVOA_D

ClientSampleId :

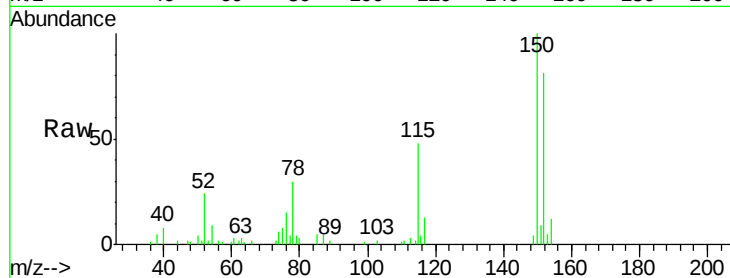
Tot Ion:152 Resp: 24815

Ion Ratio Lower Upper

152 100

115 60.0 30.9 92.7

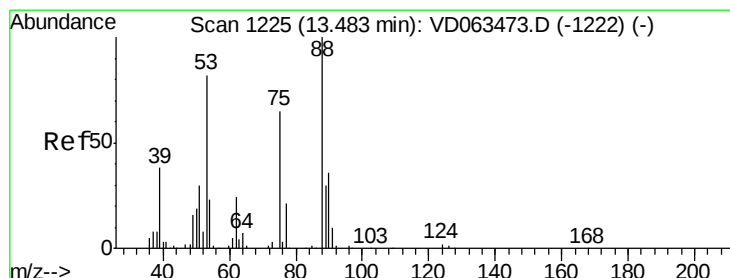
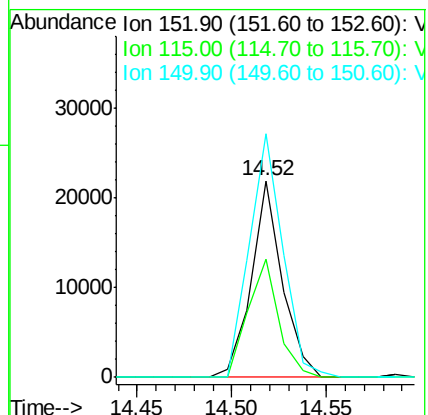
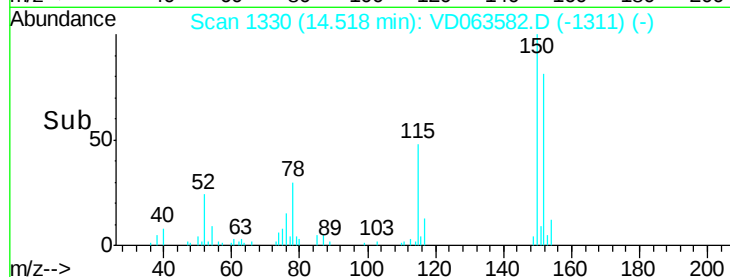
150 124.0 0.0 318.6



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: 109.687 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063582.D

Acq: 14 Aug 2019 18:58

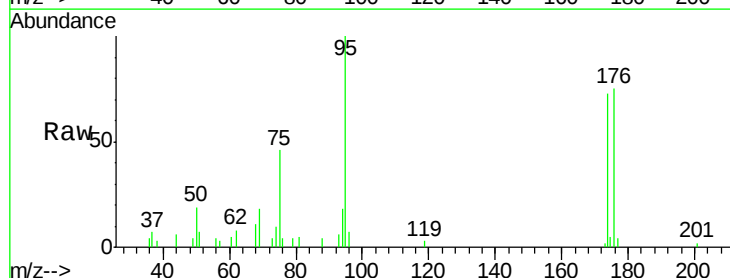
Tgt Ion: 75 Resp: 8396

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

