

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\
 Data File : VD063580.D
 Acq On : 14 Aug 2019 18:04
 Operator : JC/SY
 Sample : K4096-01RE
 Misc : 4.63g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 15 12:01:17 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	7.06	168	14870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	27979	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	26548	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	15446	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	14678	92.34	ug/l	-0.02
Spiked Amount			Recovery	=	184.68%	
35) Dibromofluoromethane	6.93	113	14193	60.23	ug/l	0.00
Spiked Amount			Recovery	=	120.46%	
50) Toluene-d8	10.41	98	24832	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
62) 4-Bromofluorobenzene	13.55	95	11729	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	

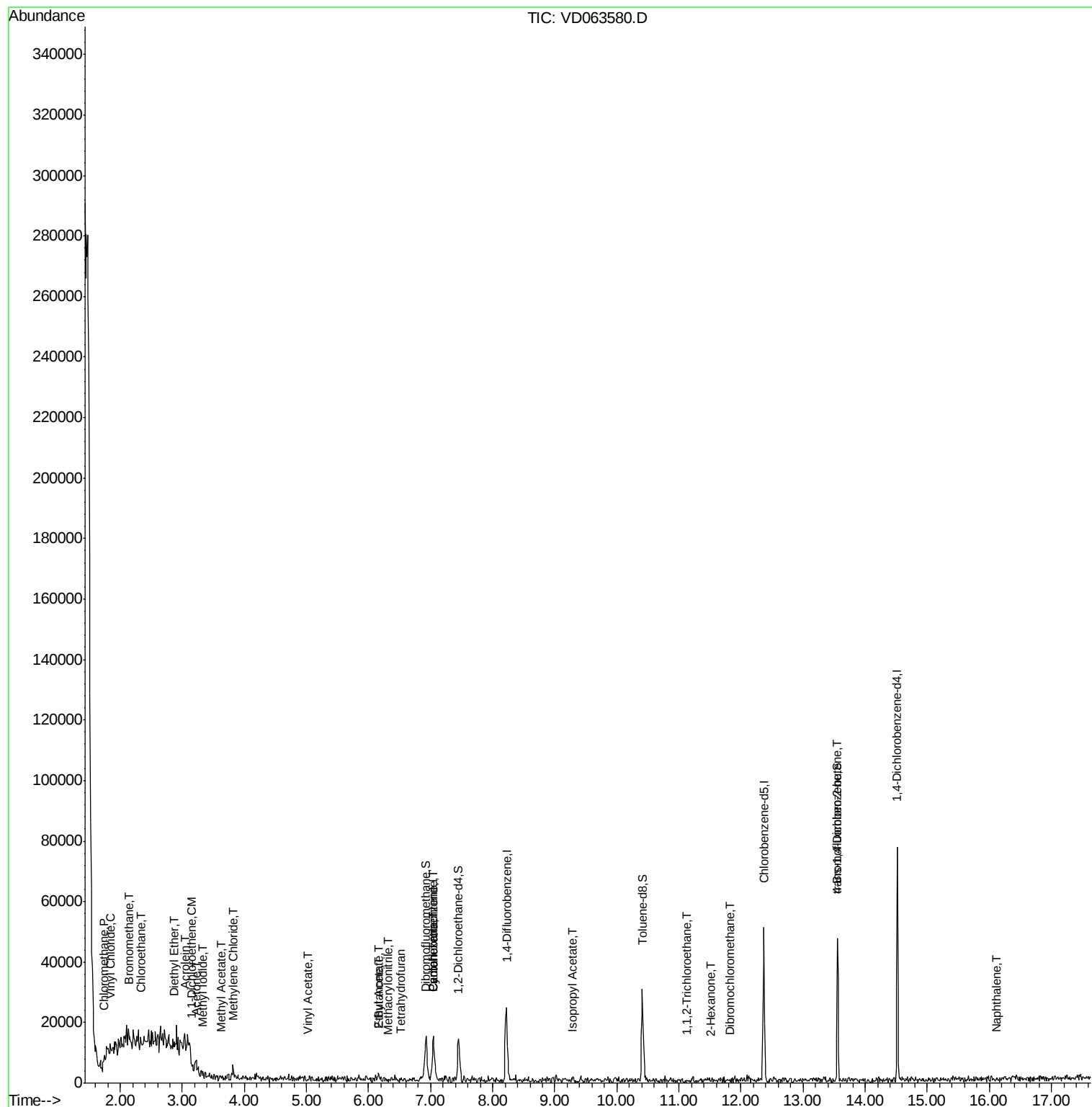
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	1169	8.317	ug/l #	41
4) Vinyl Chloride	1.84	62	198	1.419	ug/l #	42
5) Bromomethane	2.12	94	1792	27.218	ug/l #	11
6) Chloroethane	2.32	64	223	3.495	ug/l #	1
8) Diethyl Ether	2.87	74	235	6.081	ug/l #	41
10) Methyl Iodide	3.32	142	529	2.313	ug/l #	29
12) 1,1-Dichloroethene	3.15	96	380	3.163	ug/l #	1
13) Acrolein	3.03	56	184	27.016	ug/l #	18
16) Acetone	3.23	43	9095	281.482	ug/l #	90
18) Methyl Acetate	3.63	43	370	6.046	ug/l #	57
20) Methylene Chloride	3.82	84	1339	9.584	ug/l #	1
23) Vinyl Acetate	5.03	43	227	1.048	ug/l #	82
25) 2-Butanone	6.15	43	228	7.145	ug/l #	58
29) Tetrahydrofuran	6.53	42	192	12.912	ug/l #	35
31) Cyclohexane	7.04	56	196	1.366	ug/l #	16
37) Ethyl Acetate	6.15	43	228	2.200	ug/l #	73
38) Carbon Tetrachloride	7.05	117	1643	4.408	ug/l #	13
41) Methacrylonitrile	6.31	41	263	2.015	ug/l #	37
43) Isopropyl Acetate	9.29	43	211	1.520	ug/l #	48
55) 1,1,2-Trichloroethane	11.12	97	227	1.917	ug/l #	17
59) 2-Hexanone	11.51	43	242	3.501	ug/l #	30
60) Dibromochloromethane	11.82	129	249	1.155	ug/l #	12
81) trans-1,4-Dichloro-2-buten	13.55	75	6033	126.623	ug/l #	1
95) Naphthalene	16.12	128	605	1.317	ug/l #	71

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

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QLast Update : Sat Aug 10 06:42:47 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

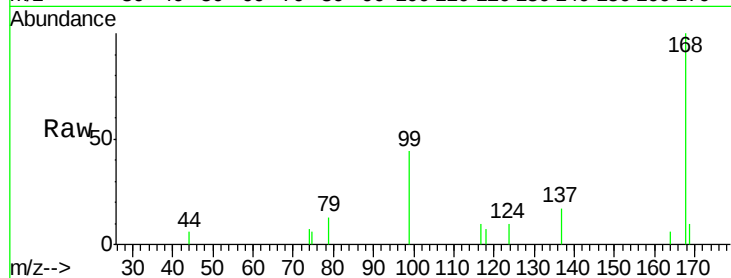
ClientSampleId :

Tot Ion:168 Resp: 14870

Ion Ratio Lower Upper

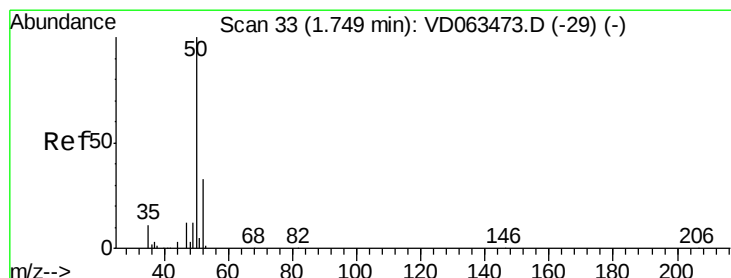
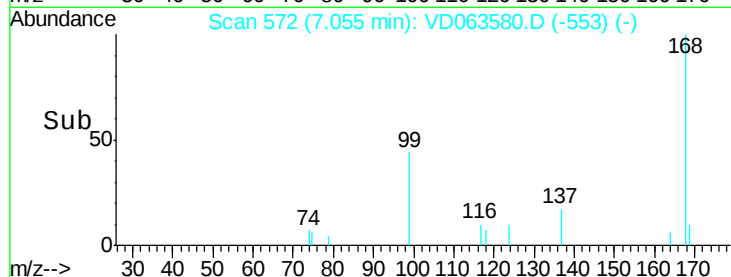
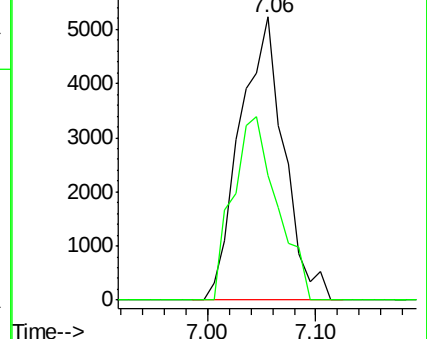
168 100

99 44.2 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: 8.317 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063580.D

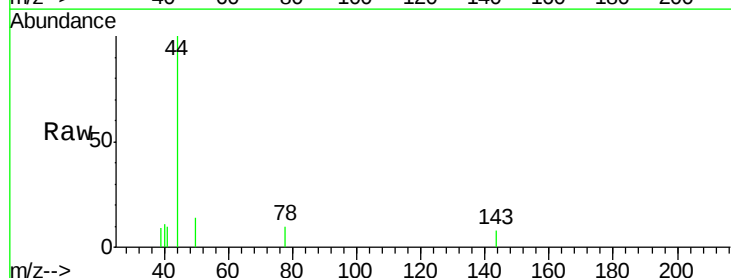
Acq: 14 Aug 2019 18:04

Tgt Ion: 50 Resp: 1169

Ion Ratio Lower Upper

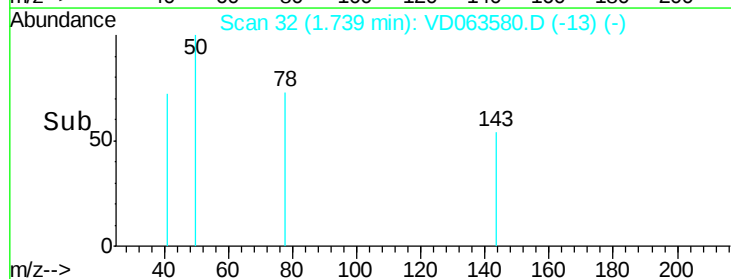
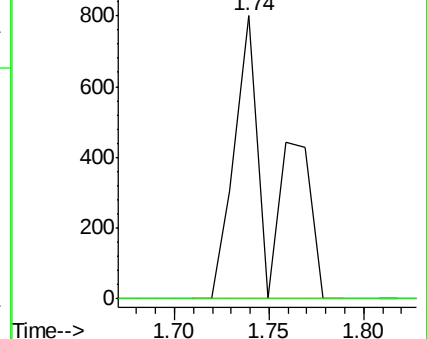
50 100

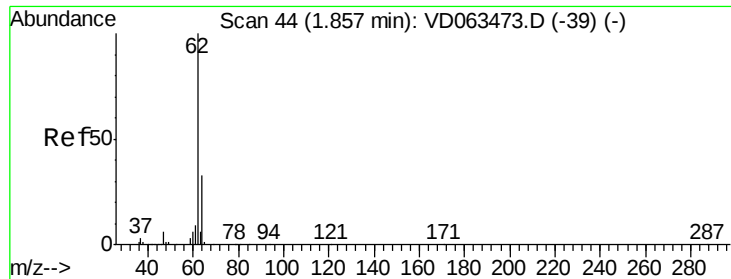
52 0.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 1.419 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.02 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

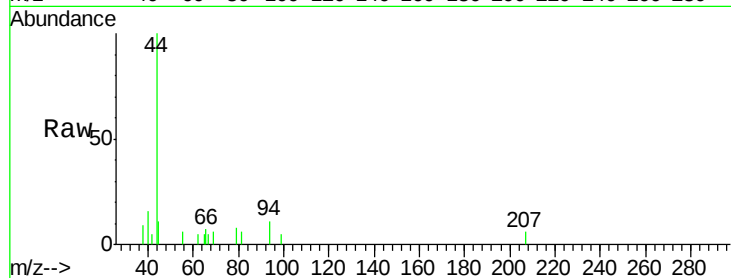
ClientSampled :

Tot Ion: 62 Resp: 198

Ion Ratio Lower Upper

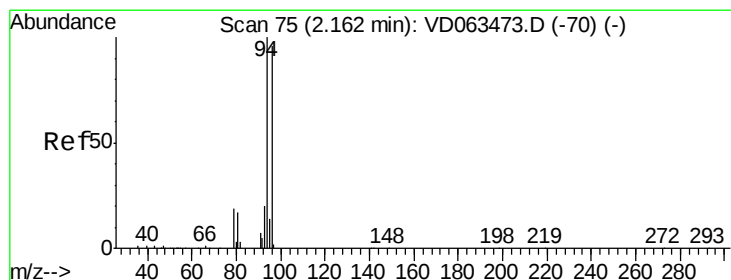
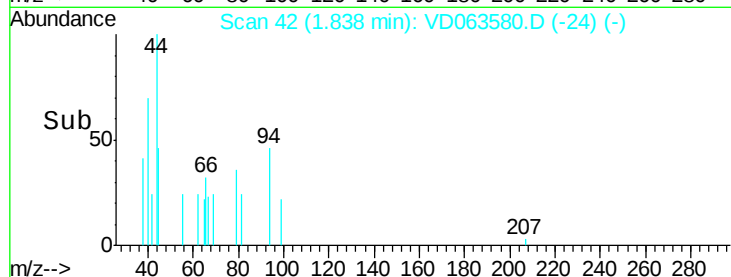
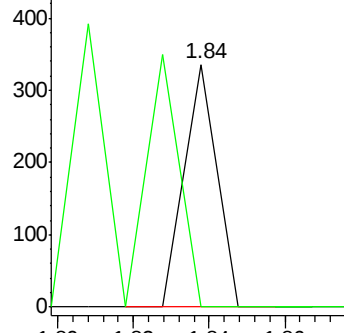
62 100

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



#5

Bromomethane

Concen: 27.218 ug/l

RT: 2.12 min Scan# 71

Delta R.T. -0.04 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

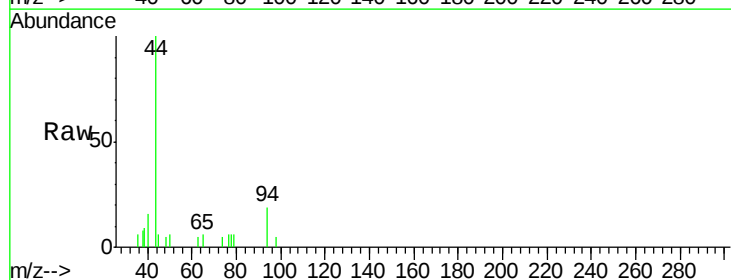
Tgt Ion: 94 Resp: 1792

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

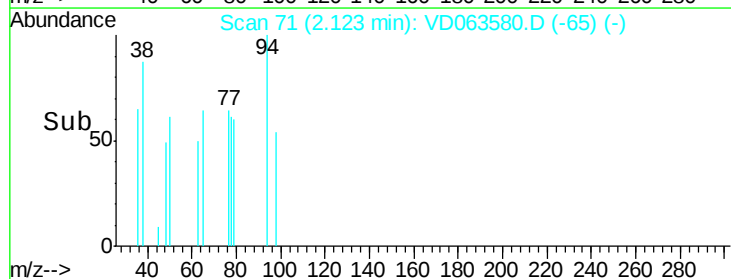
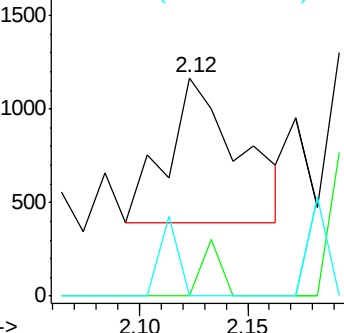
93 0.0 15.8 23.8#

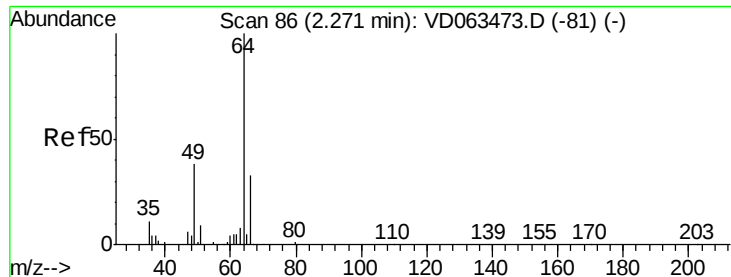


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 3.495 ug/l

RT: 2.32 min Scan# 91

Delta R.T. 0.05 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

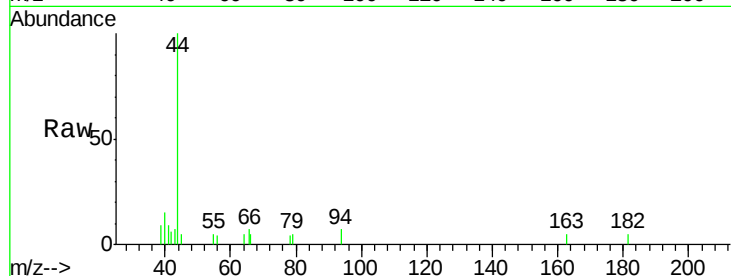
ClientSampleId :

Tot Ion: 64 Resp: 223

Ion Ratio Lower Upper

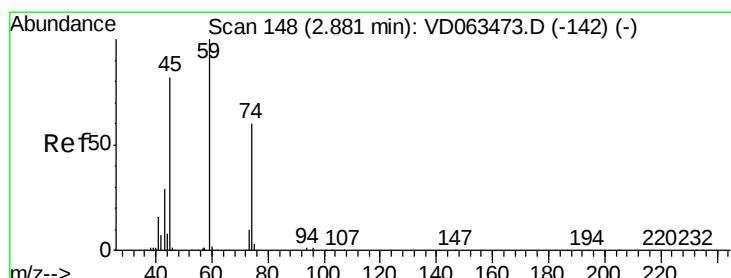
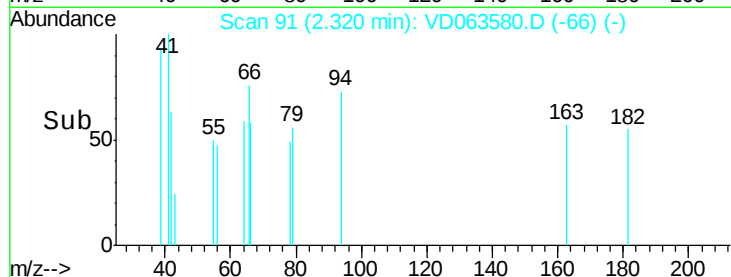
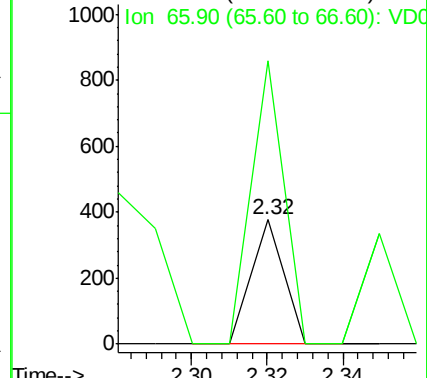
64 100

66 227.6 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: 6.081 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD063580.D

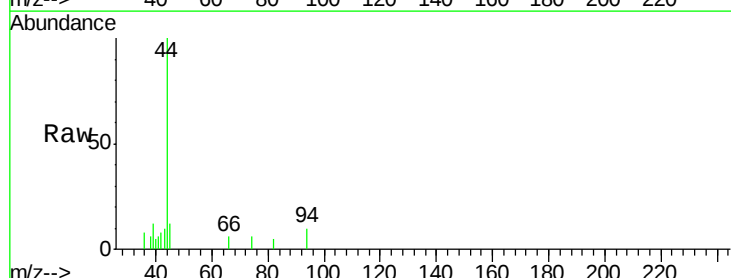
Acq: 14 Aug 2019 18:04

Tgt Ion: 74 Resp: 235

Ion Ratio Lower Upper

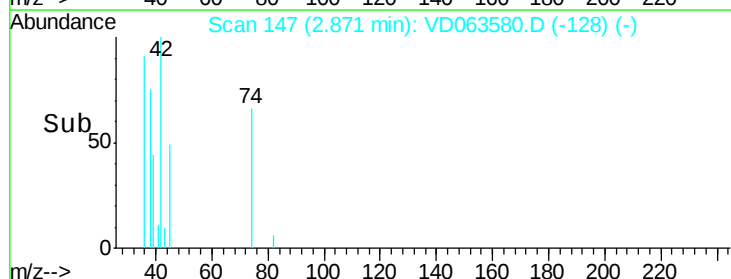
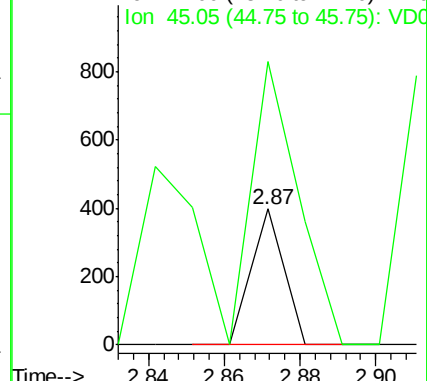
74 100

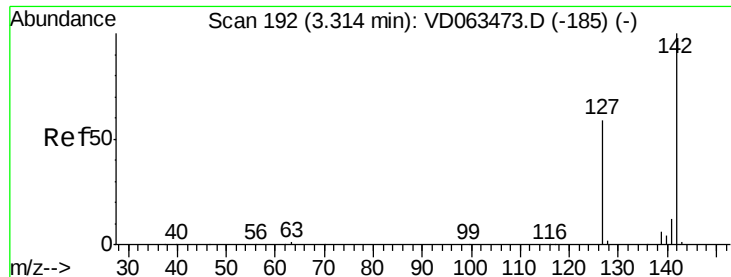
45 208.3 68.5 205.5#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

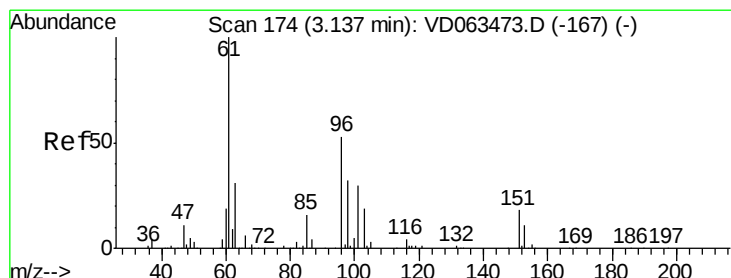
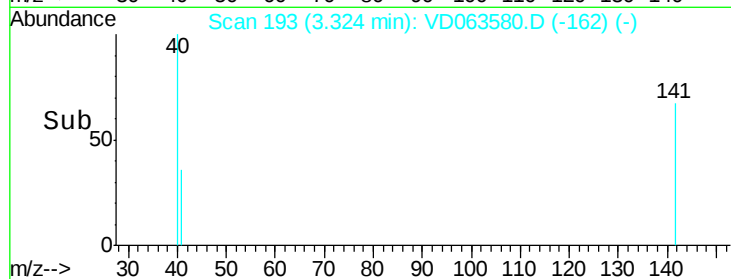
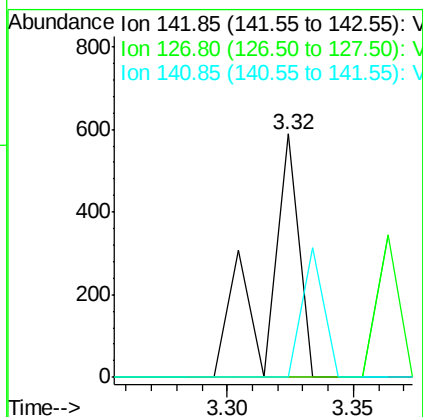
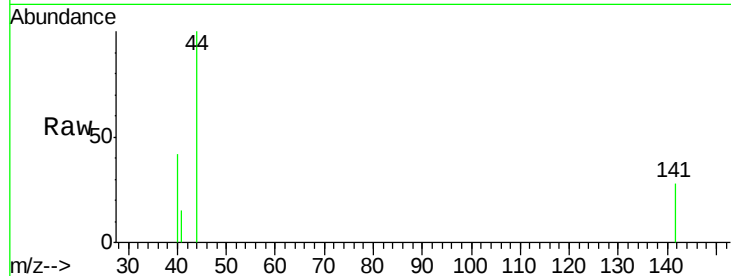




#10
Methvl Iodide
Concen: 2.313 ug/l
RT: 3.32 min Scan# 193
Delta R.T. 0.01 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

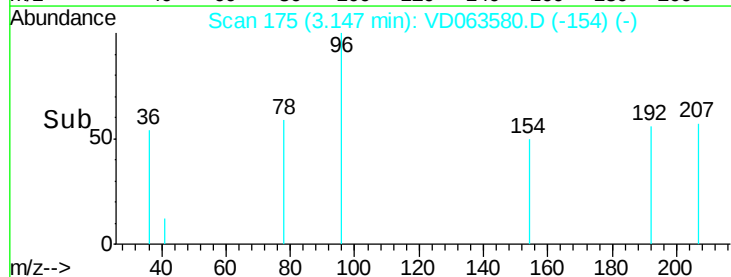
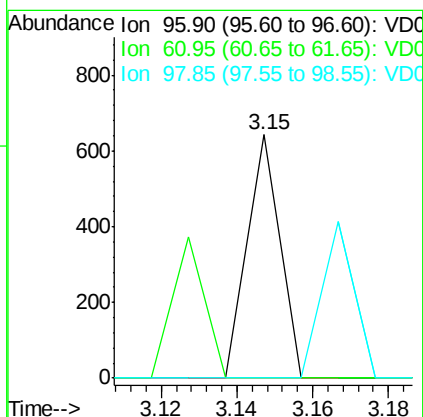
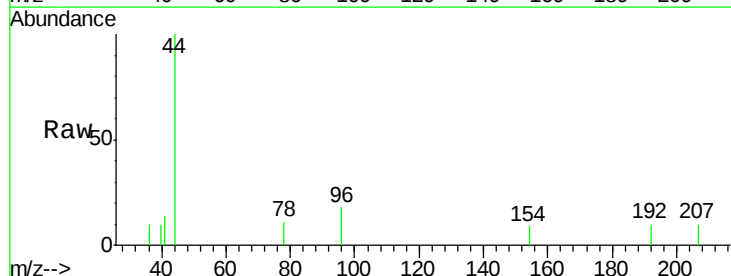
Instrument :
MSVOA_D
ClientSampleId :

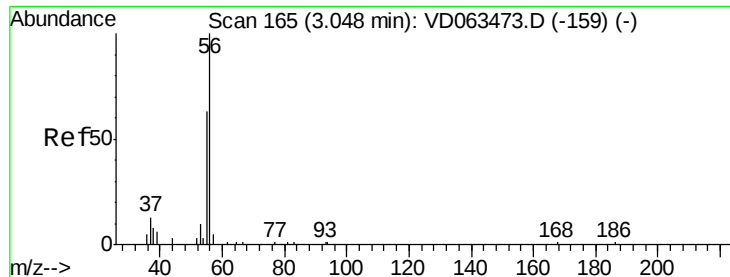
Tot Ion:142 Resp: 529
Ion Ratio Lower Upper
142 100
127 0.0 47.2 70.8#
141 0.0 9.8 14.8#



#12
1,1-Dichloroethene
Concen: 3.163 ug/l
RT: 3.15 min Scan# 175
Delta R.T. 0.01 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

Tgt Ion: 96 Resp: 380
Ion Ratio Lower Upper
96 100
61 0.0 151.7 227.5#
98 0.0 48.4 72.6#





#13

Acrolein

Concen: 27.016 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

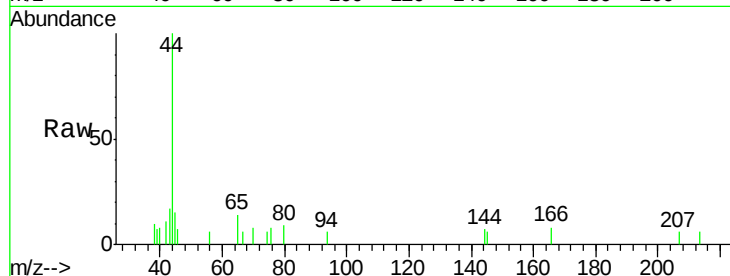
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 184

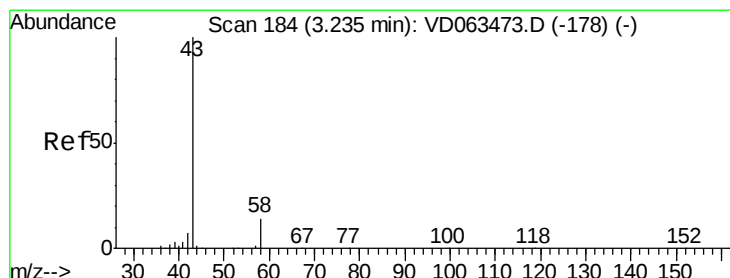
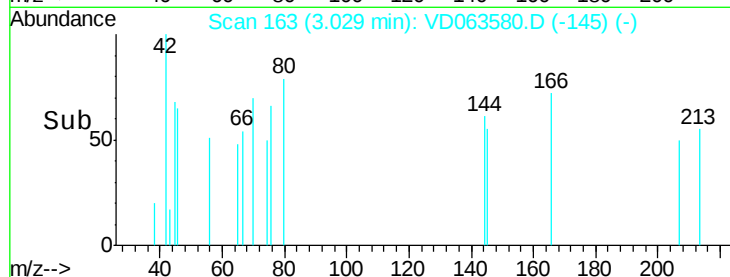
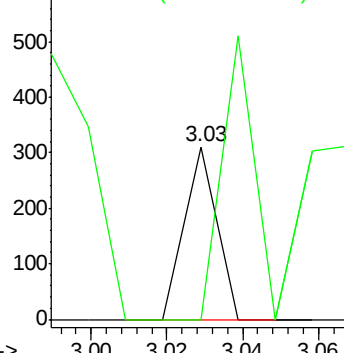
Ion Ratio Lower Upper

56 100

55 0.0 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 281.482 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD063580.D

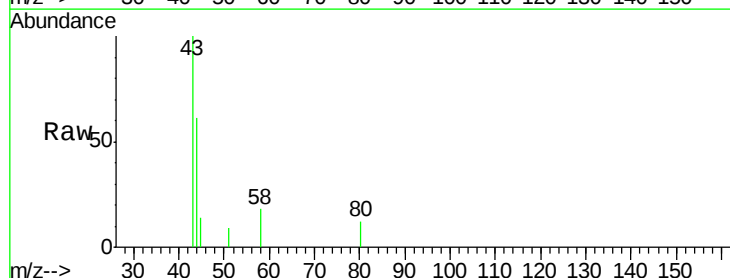
Acq: 14 Aug 2019 18:04

Tgt Ion: 43 Resp: 9095

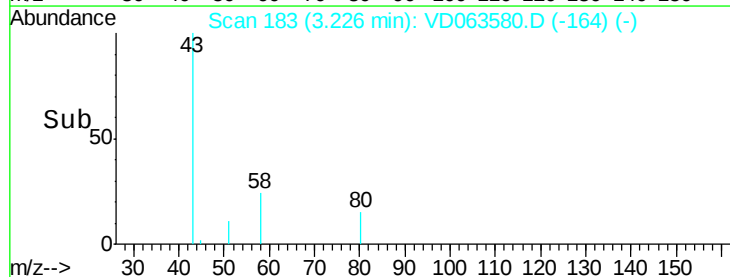
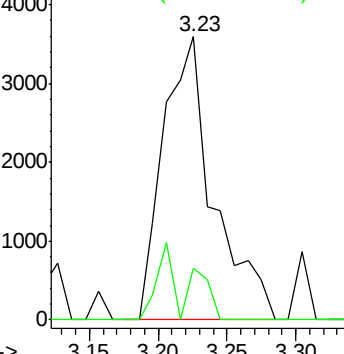
Ion Ratio Lower Upper

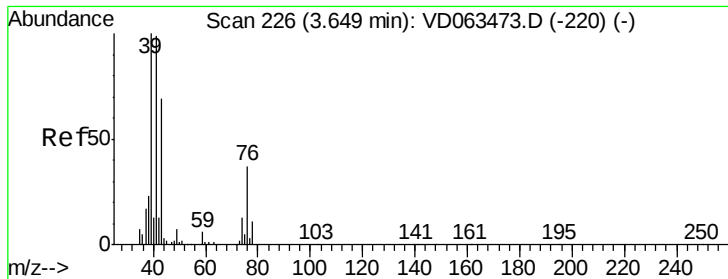
43 100

58 18.2 11.4 17.2#



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

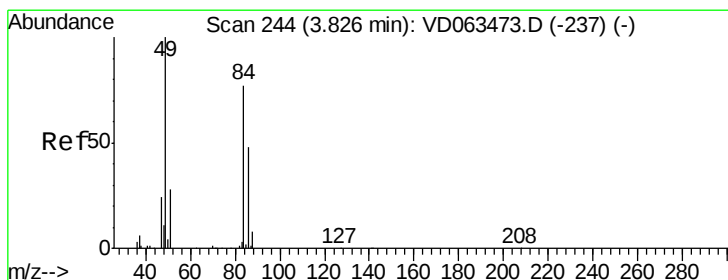
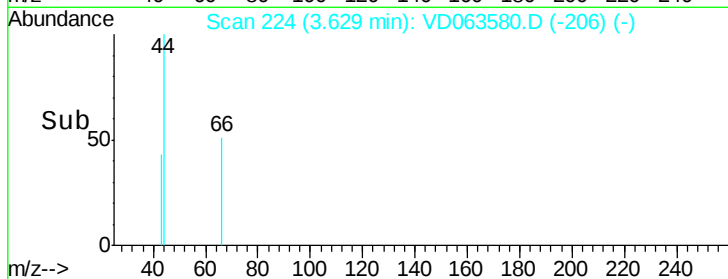
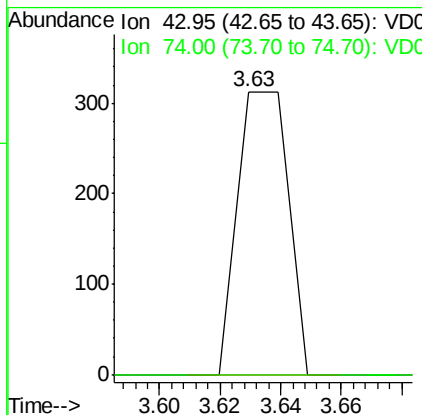
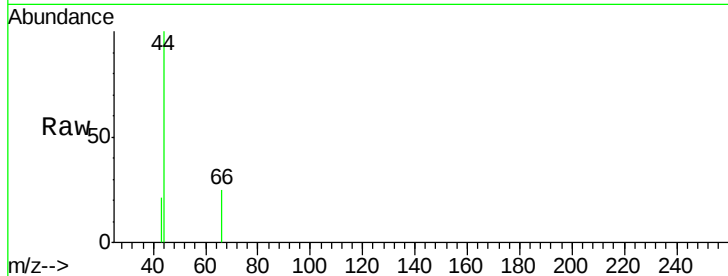




#18
Methvl Acetate
Concen: 6.046 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.02 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

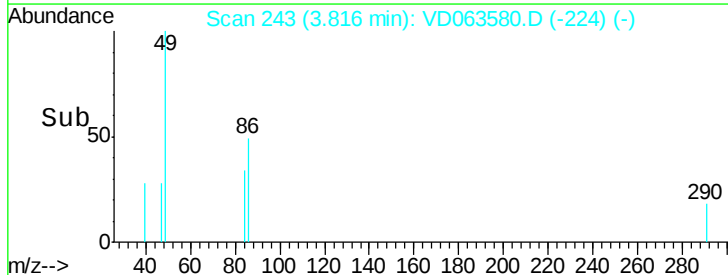
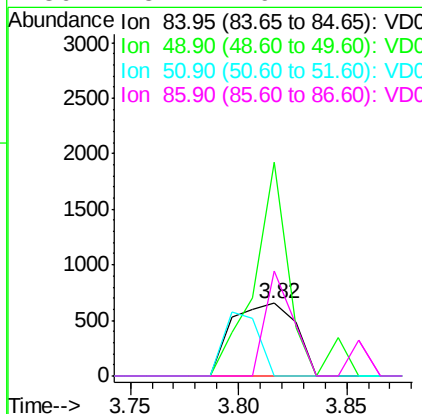
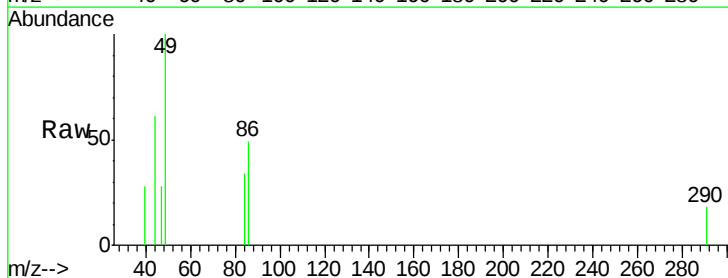
Instrument :
MSVOA_D
ClientSampleId :

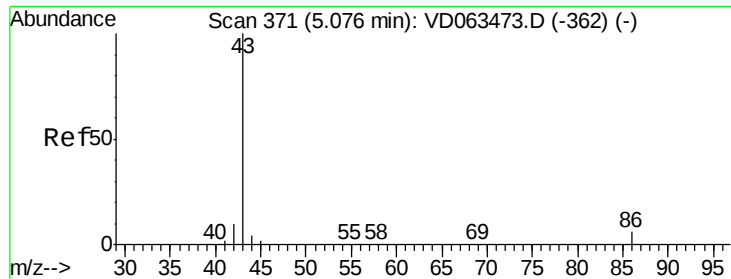
Tot Ion: 43 Resp: 370
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 9.584 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

Tgt Ion: 84 Resp: 1339
Ion Ratio Lower Upper
84 100
49 295.2 103.4 155.2#
51 0.0 28.5 42.7#
86 145.2 49.4 74.2#





#23

Vinyl Acetate

Concen: 1.048 ug/l

RT: 5.03 min Scan# 366

Delta R.T. -0.05 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

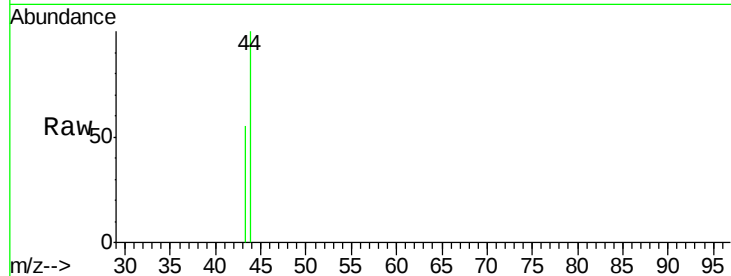
ClientSampleId :

Tot Ion: 43 Resp: 227

Ion Ratio Lower Upper

43 100

86 0.0 4.8 7.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.03

400

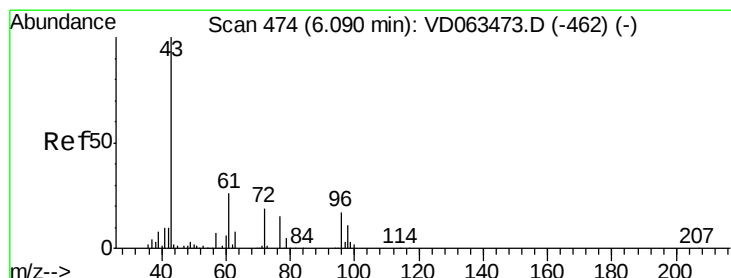
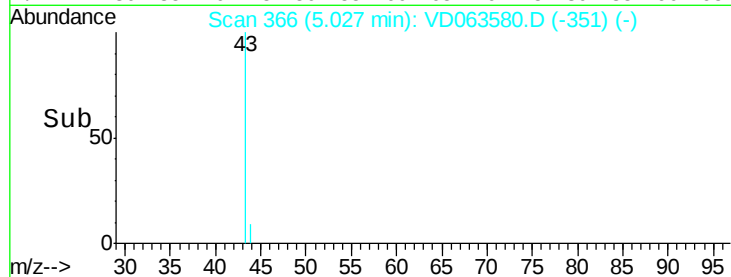
300

200

100

0

Time-->



#25

2-Butanone

Concen: 7.145 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.06 min

Lab File: VD063580.D

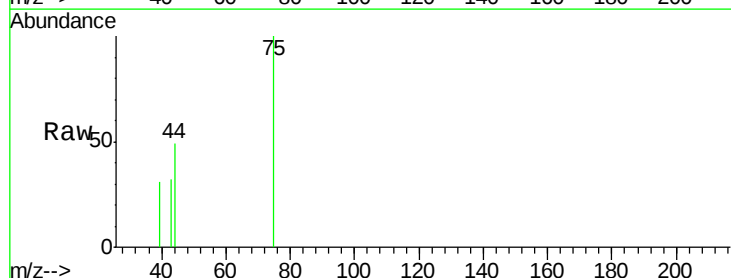
Acq: 14 Aug 2019 18:04

Tgt Ion: 43 Resp: 228

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

6.15

400

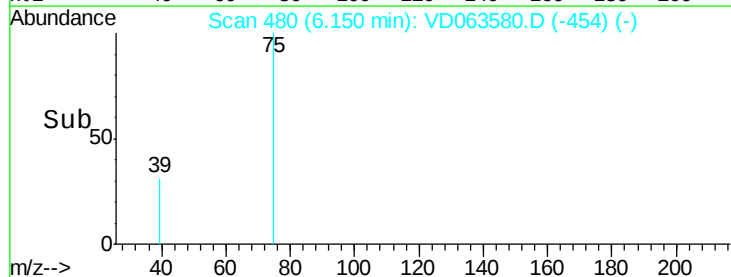
300

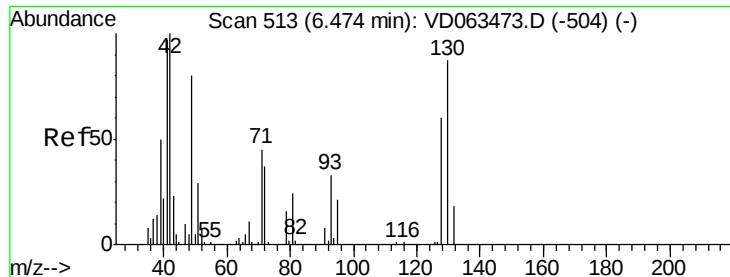
200

100

0

Time-->

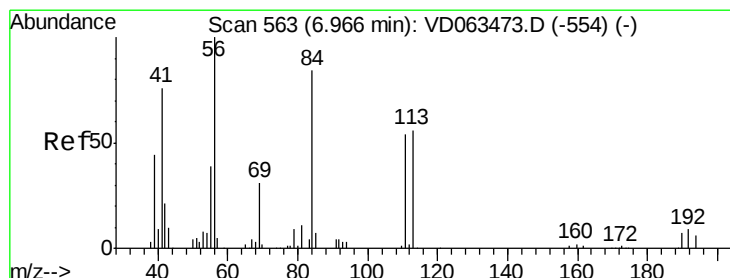
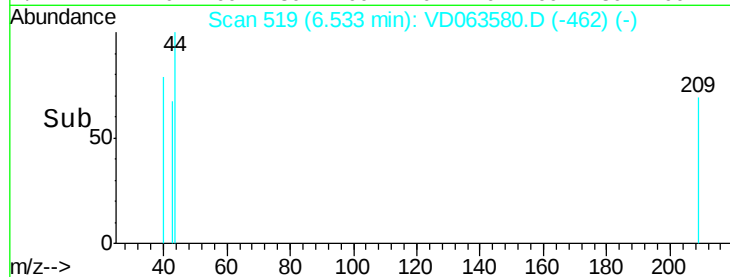
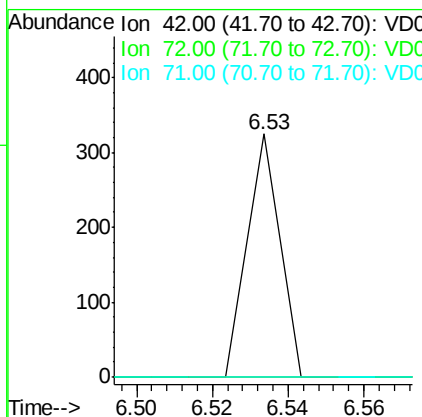
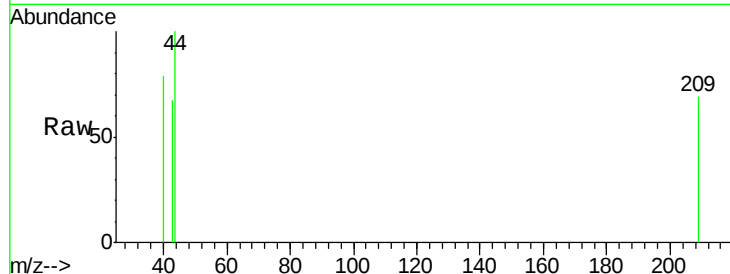




#29
Tetrahydrofuran
Concen: 12.912 ug/l
RT: 6.53 min Scan# 519
Delta R.T. 0.06 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

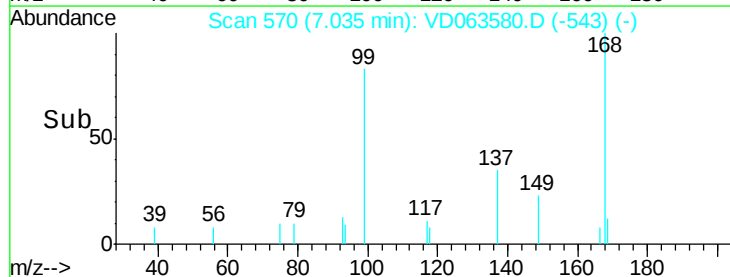
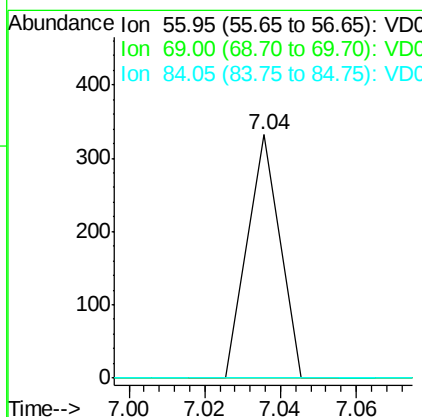
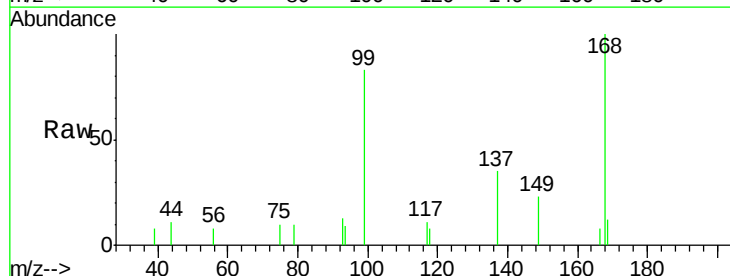
Instrument :
MSVOA_D
ClientSampleId :

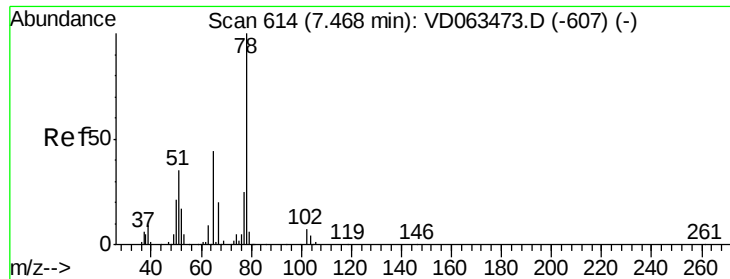
Tot Ion: 42 Resp: 192
Ion Ratio Lower Upper
42 100
72 0.0 31.5 47.3#
71 0.0 33.8 50.8#



#31
Cyclohexane
Concen: 1.366 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

Tgt Ion: 56 Resp: 196
Ion Ratio Lower Upper
56 100
69 0.0 25.0 37.6#
84 0.0 69.7 104.5#

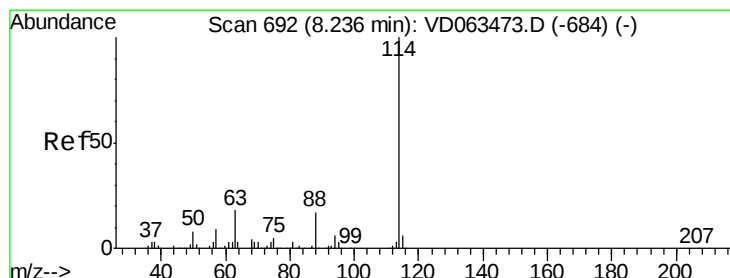
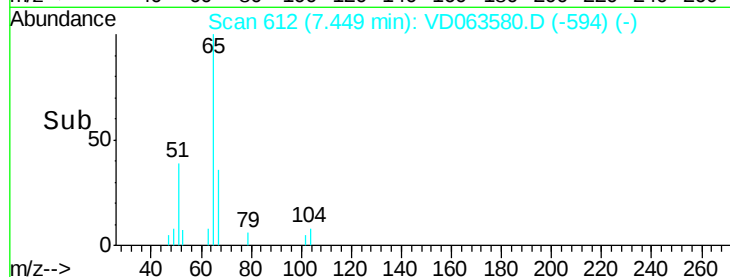
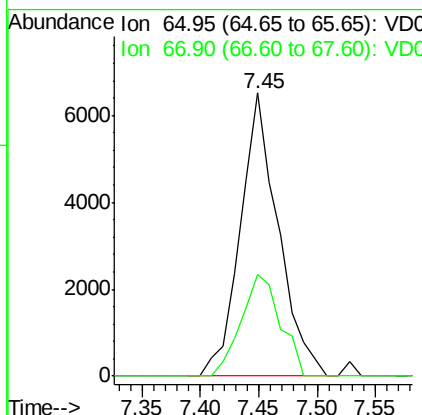
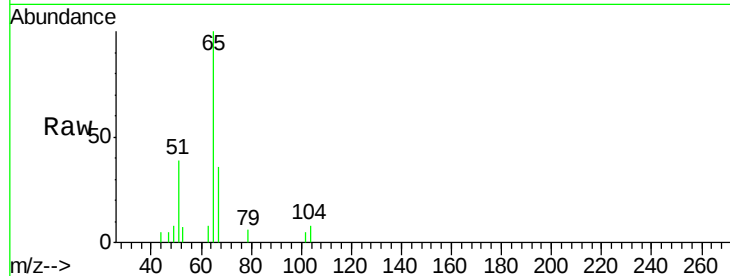




#33
 1,2-Dichloroethane-d4
 Concen: 92.344 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.02 min
 Lab File: VD063580.D
 Acq: 14 Aug 2019 18:04

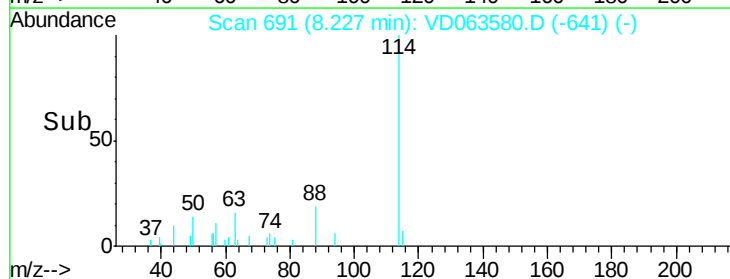
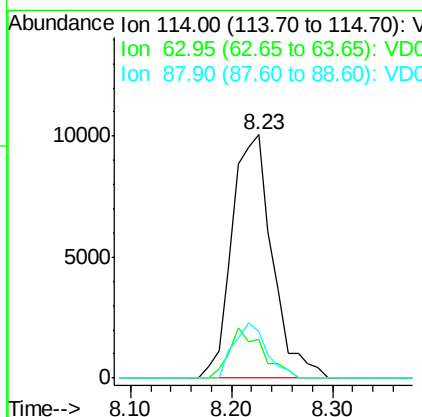
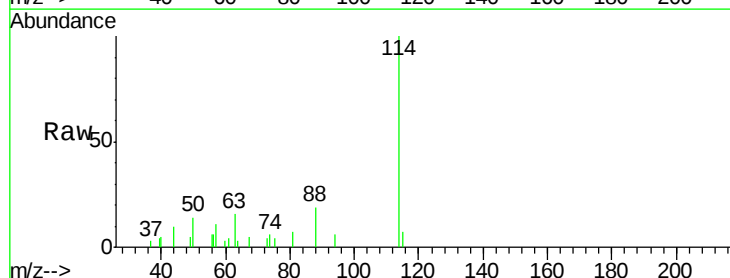
Instrument :
 MSVOA_D
 ClientSampleId :

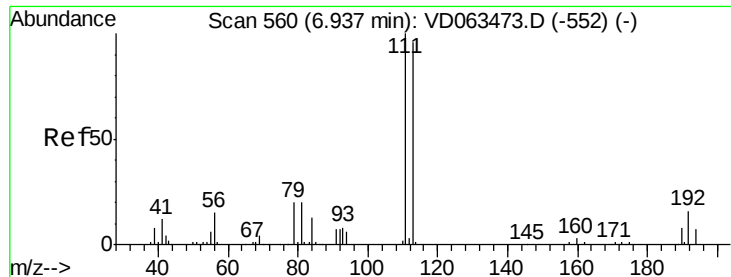
Tot Ion: 65 Resp: 14678
 Ion Ratio Lower Upper
 65 100
 67 35.8 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. -0.01 min
 Lab File: VD063580.D
 Acq: 14 Aug 2019 18:04

Tgt Ion: 114 Resp: 27979
 Ion Ratio Lower Upper
 114 100
 63 15.8 0.0 36.2
 88 19.1 0.0 35.0





#35

Dibromofluoromethane

Concen: 60.231 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :
MSVOA_D
ClientSampleId :

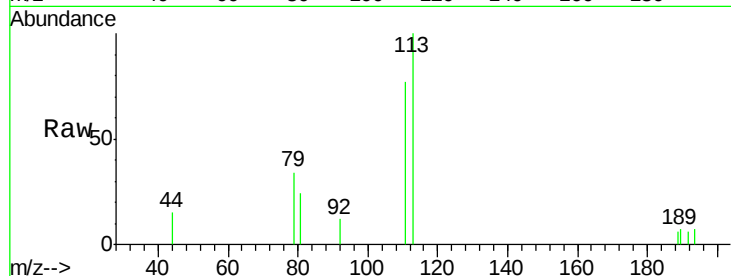
Tot Ion:113 Resp: 14193

Ion Ratio Lower Upper

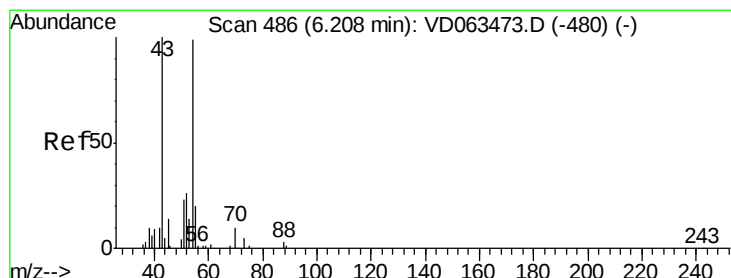
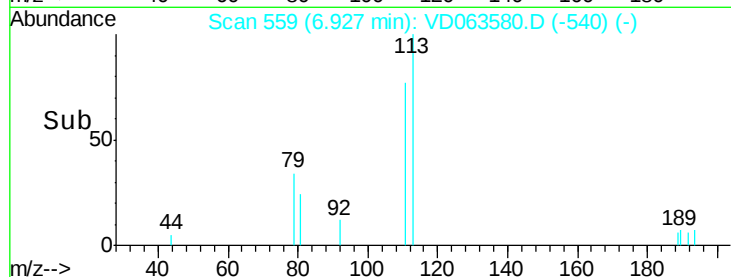
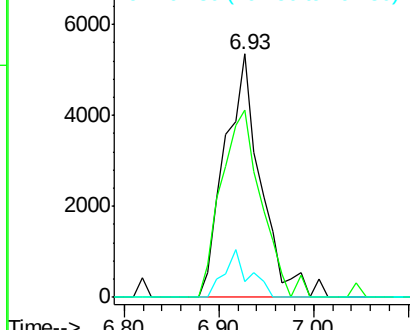
113 100

111 76.9 83.1 124.7#

192 6.3 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: 2.200 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.06 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

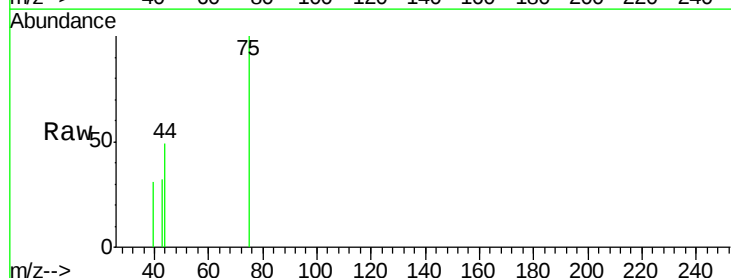
Tgt Ion: 43 Resp: 228

Ion Ratio Lower Upper

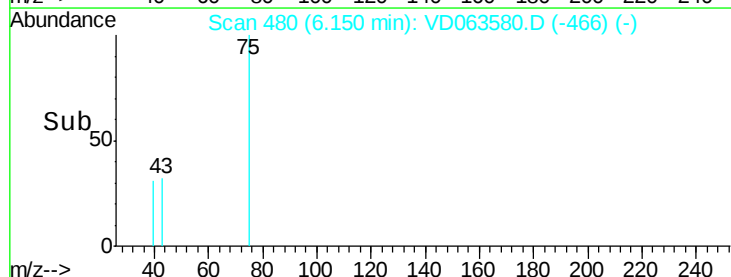
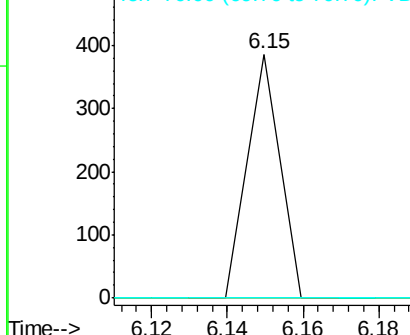
43 100

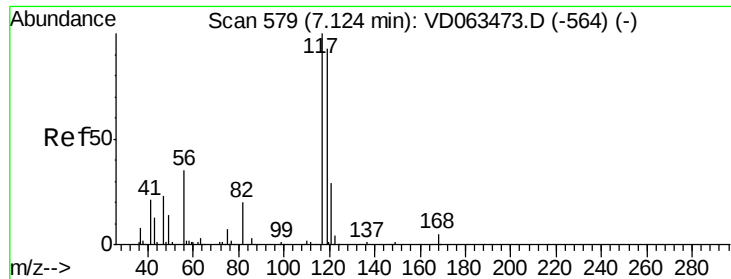
61 0.0 9.0 13.6#

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: 4.408 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

ClientSampleId :

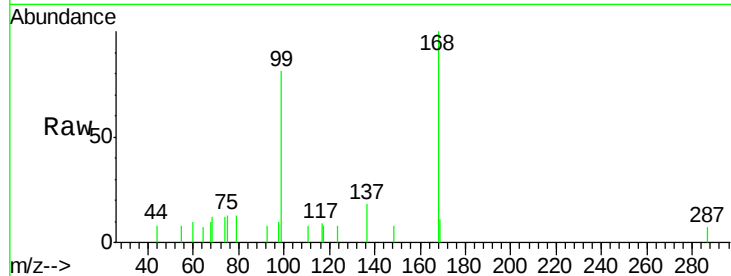
Tot Ion:117 Resp: 1643

Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

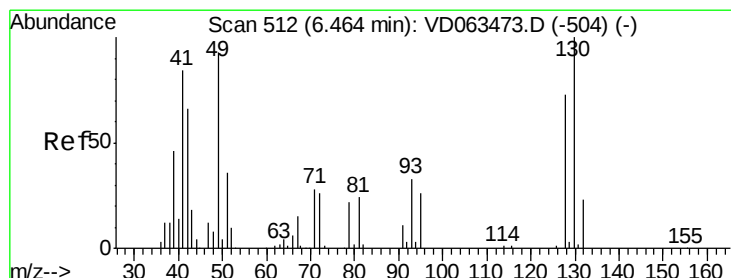
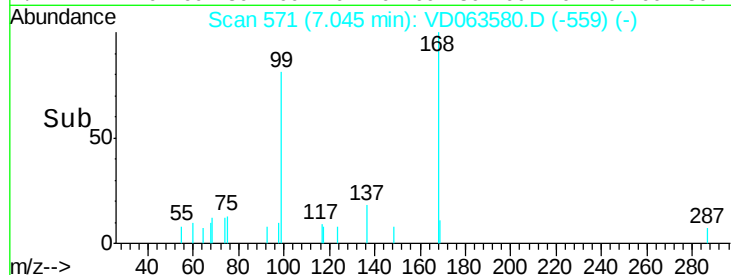
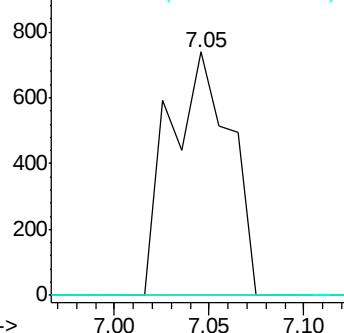
121 0.0 23.1 34.7#



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



#41

Methacrylonitrile

Concen: 2.015 ug/l

RT: 6.31 min Scan# 496

Delta R.T. -0.16 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Tgt Ion: 41 Resp: 263

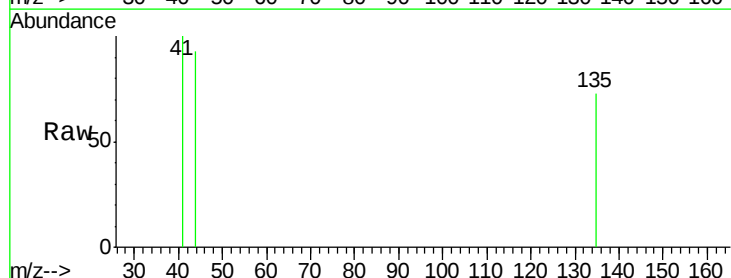
Ion Ratio Lower Upper

41 100

39 0.0 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

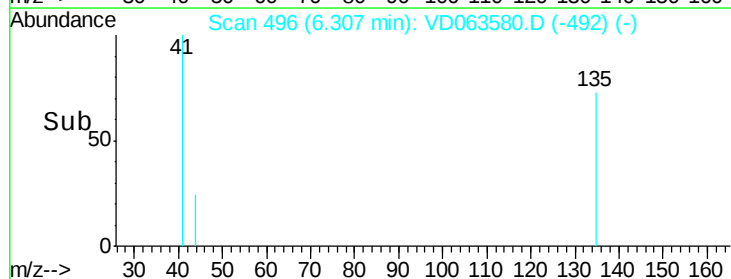
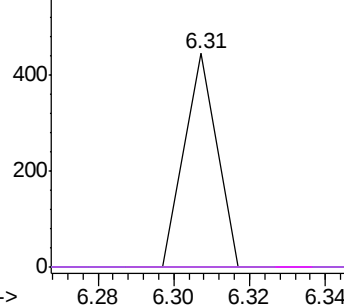


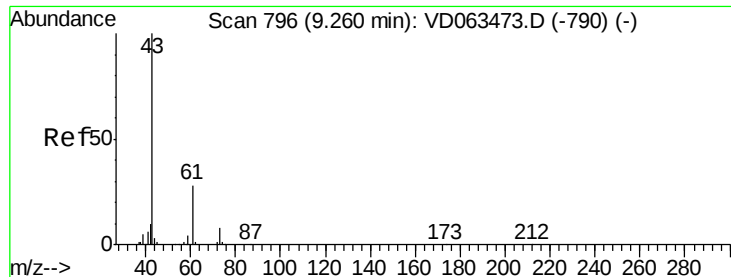
Abundance Ion 40.95 (40.65 to 41.65): V

Ion 38.95 (38.65 to 39.65): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.520 ug/l

RT: 9.29 min Scan# 799

Delta R.T. 0.03 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

ClientSampled :

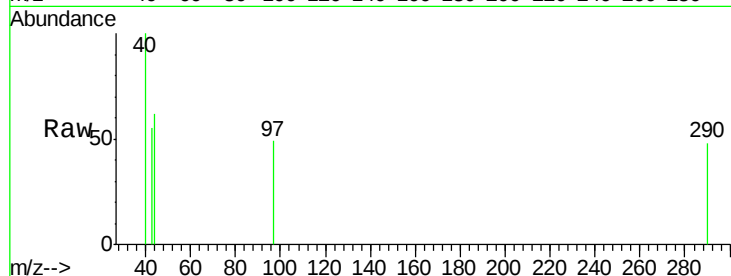
Tot Ion: 43 Resp: 211

Ion Ratio Lower Upper

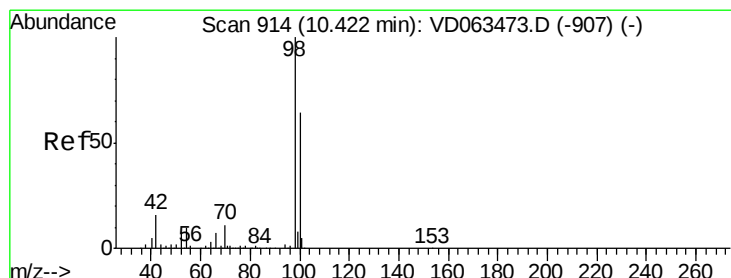
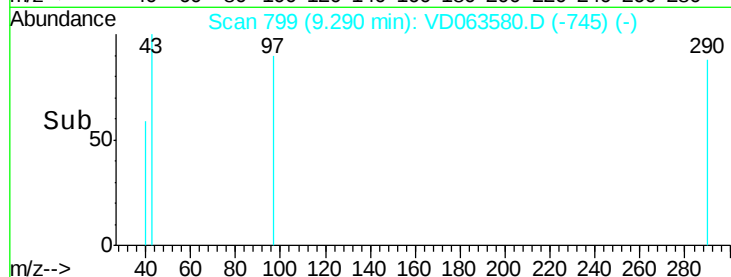
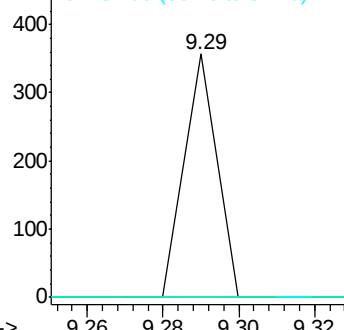
43 100

61 0.0 22.2 33.2#

87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 47.932 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063580.D

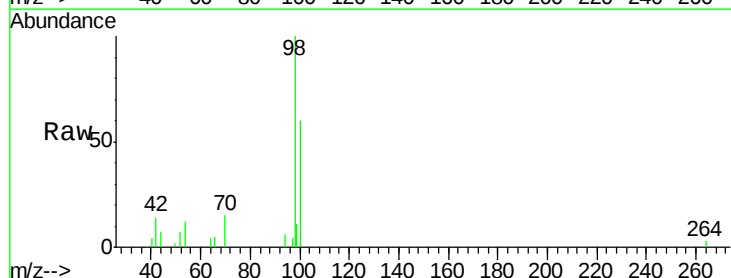
Acq: 14 Aug 2019 18:04

Tgt Ion: 98 Resp: 24832

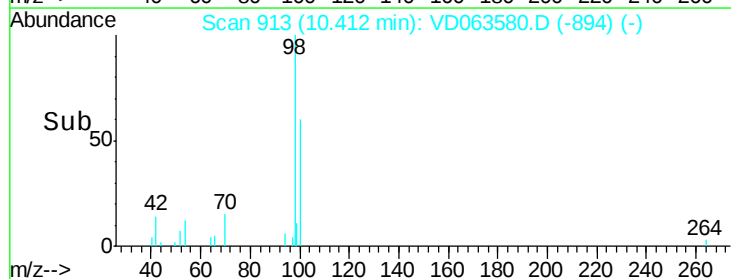
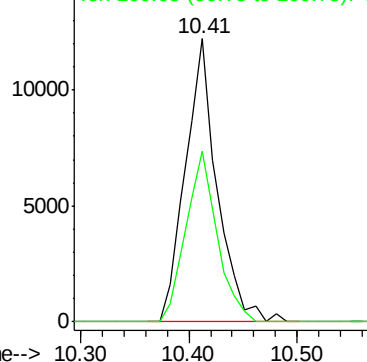
Ion Ratio Lower Upper

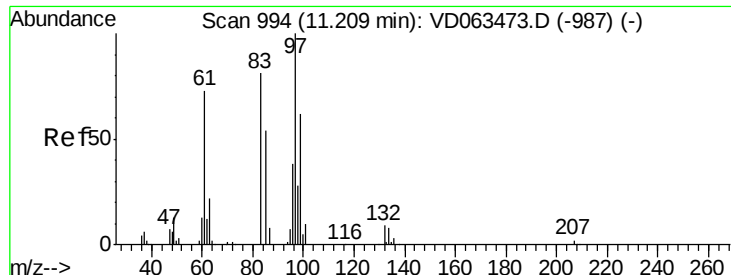
98 100

100 60.3 51.7 77.5



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

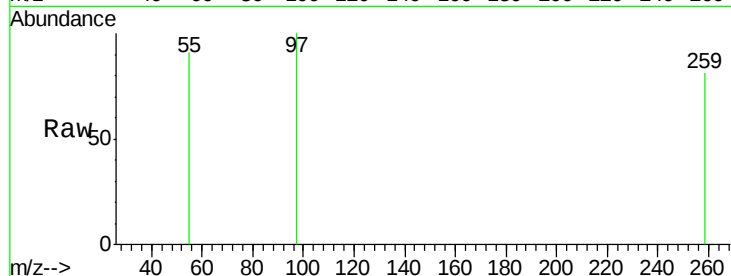




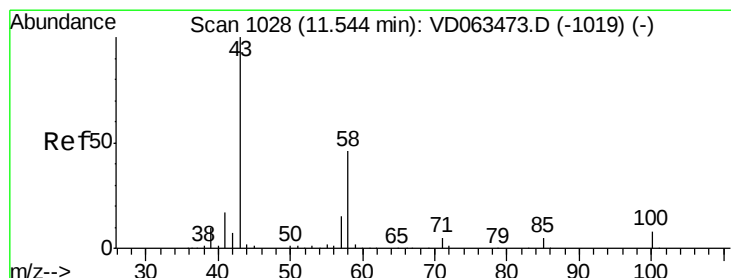
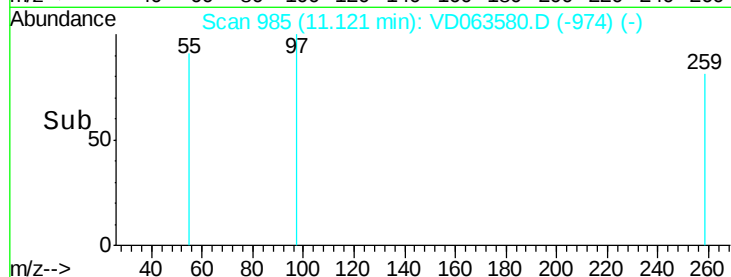
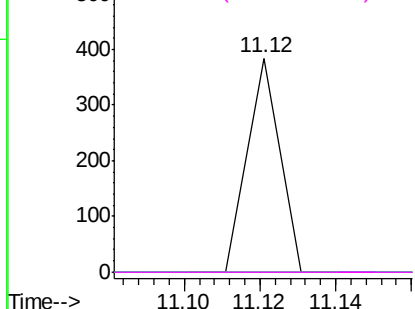
#55
 1,1,2-Trichloroethane
 Concen: 1.917 ug/l
 RT: 11.12 min Scan# 985
 Delta R.T. -0.09 min
 Lab File: VD063580.D
 Acq: 14 Aug 2019 18:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 97 Resp: 227
 Ion Ratio Lower Upper
 97 100
 83 0.0 64.7 97.1#
 85 0.0 42.9 64.3#
 99 0.0 49.7 74.5#

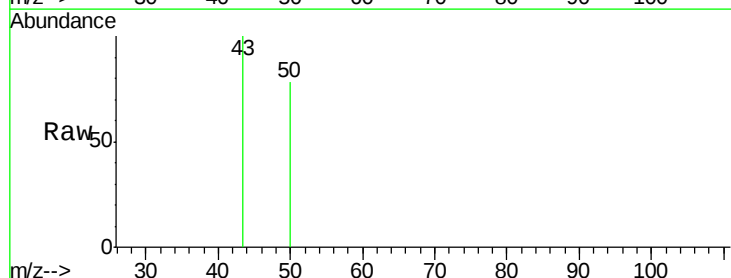


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

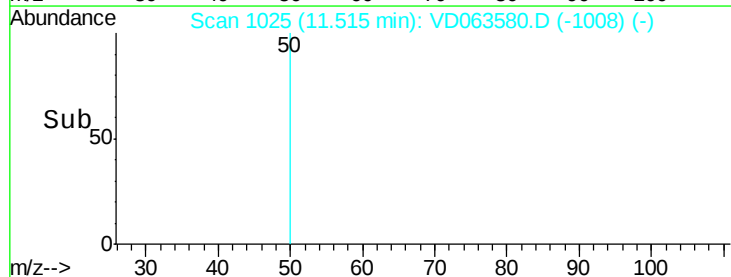
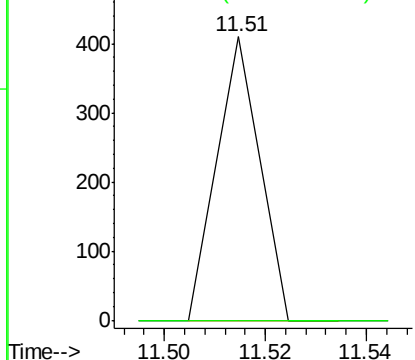


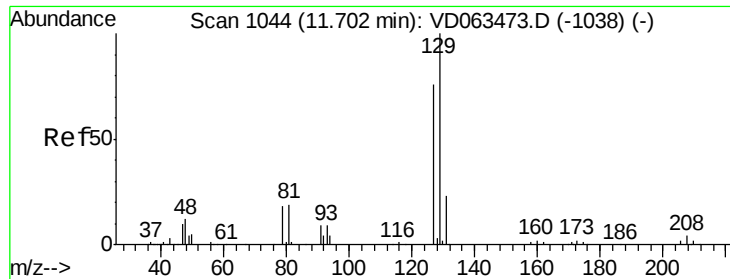
#59
 2-Hexanone
 Concen: 3.501 ug/l
 RT: 11.51 min Scan# 1025
 Delta R.T. -0.03 min
 Lab File: VD063580.D
 Acq: 14 Aug 2019 18:04

Tgt Ion: 43 Resp: 242
 Ion Ratio Lower Upper
 43 100
 58 0.0 23.1 69.2#



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





#60

Dibromochloromethane

Concen: 1.155 ug/l

RT: 11.82 min Scan# 1056

Delta R.T. 0.12 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

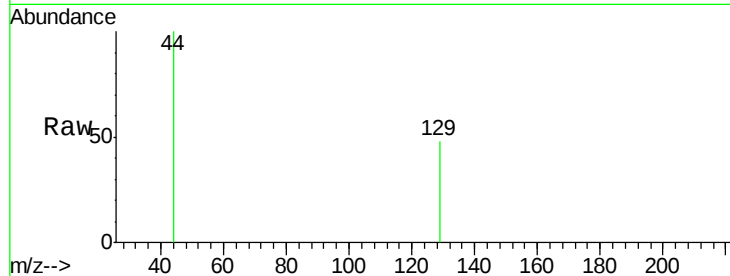
ClientSampleId :

Tot Ion:129 Resp: 249

Ion Ratio Lower Upper

129 100

127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.82

400

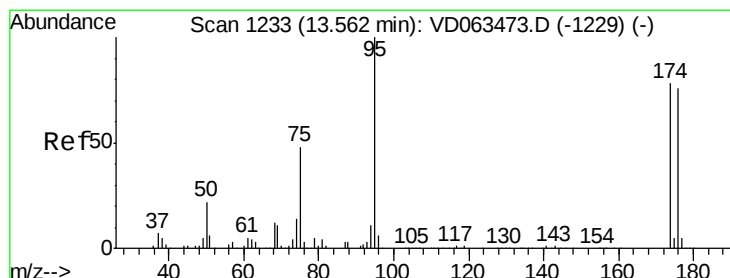
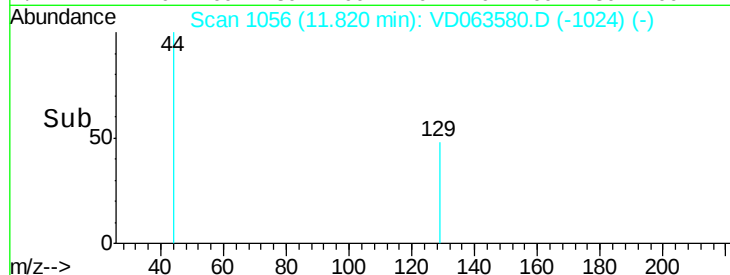
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.951 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

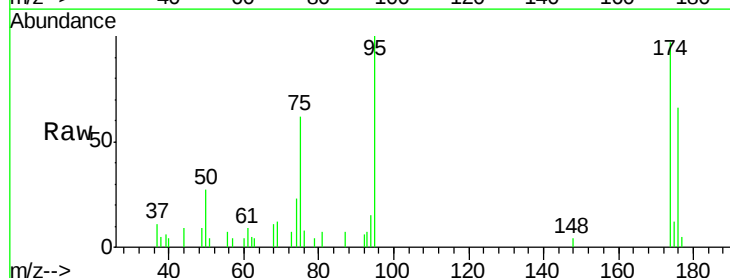
Tgt Ion: 95 Resp: 11729

Ion Ratio Lower Upper

95 100

174 97.0 0.0 155.4

176 66.5 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

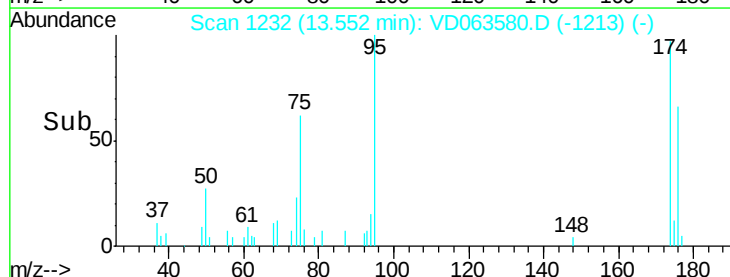
Ion 175.90 (175.60 to 176.60): V

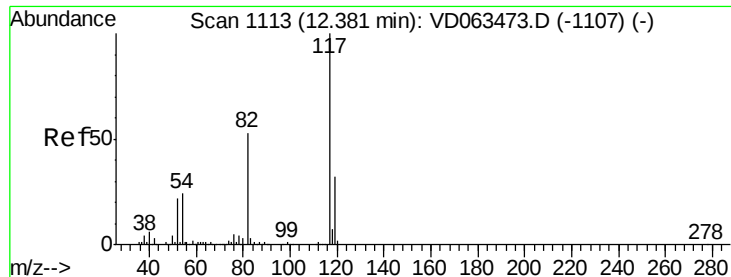
10000

5000

0

Time-->

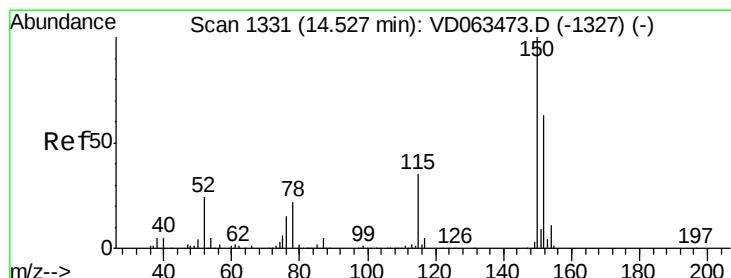
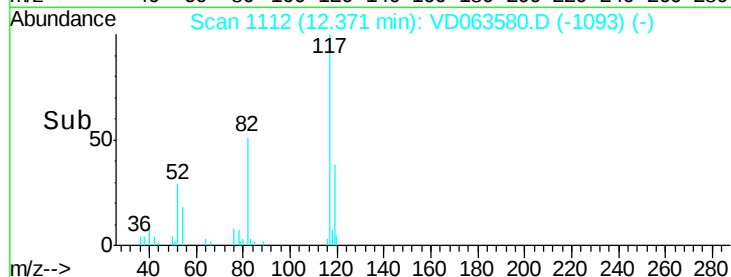
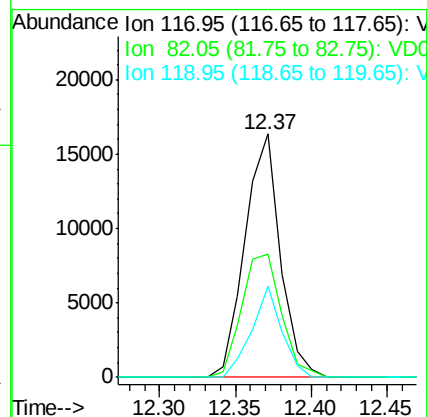
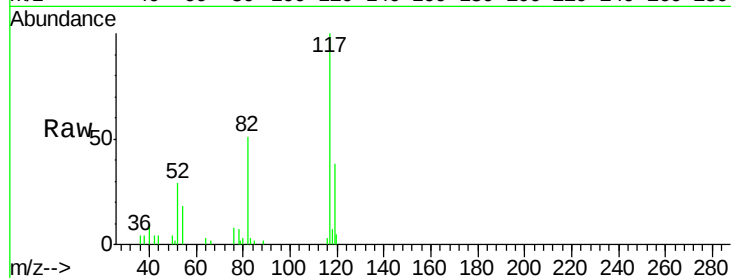




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

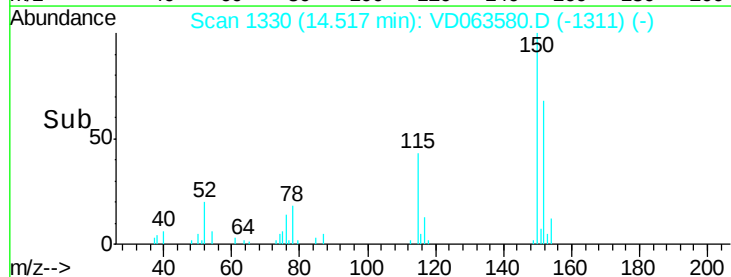
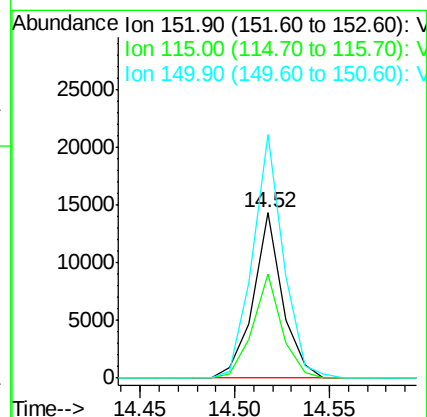
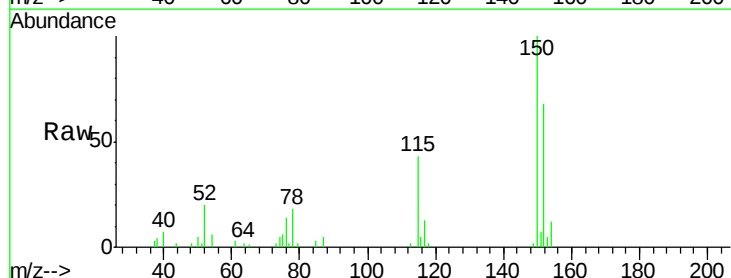
Instrument :
MSVOA_D
ClientSampleId :

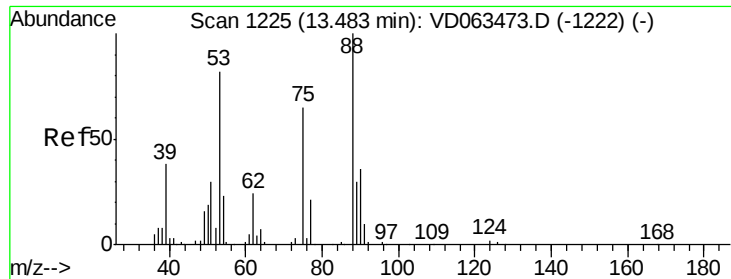
Tot Ion:117 Resp: 26548
Ion Ratio Lower Upper
117 100
82 50.8 42.0 63.0
119 37.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063580.D
Acq: 14 Aug 2019 18:04

Tgt Ion:152 Resp: 15446
Ion Ratio Lower Upper
152 100
115 62.9 30.9 92.7
150 147.5 0.0 318.6





#81

trans-1,4-Dichloro-2-butene

Concen: 126.623 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

Instrument :

MSVOA_D

ClientSampleId :

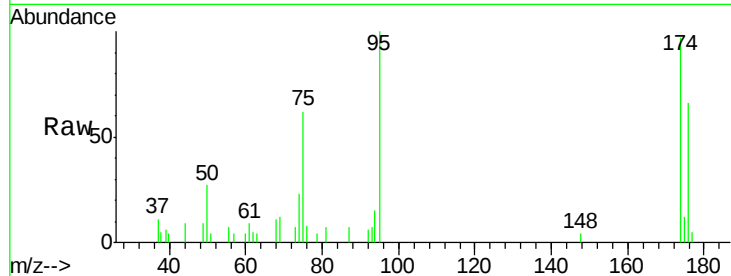
Tot Ion: 75 Resp: 6033

Ion Ratio Lower Upper

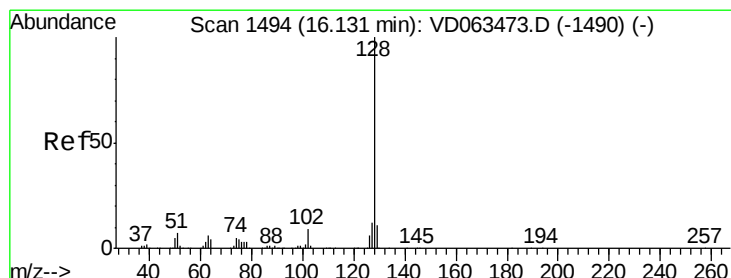
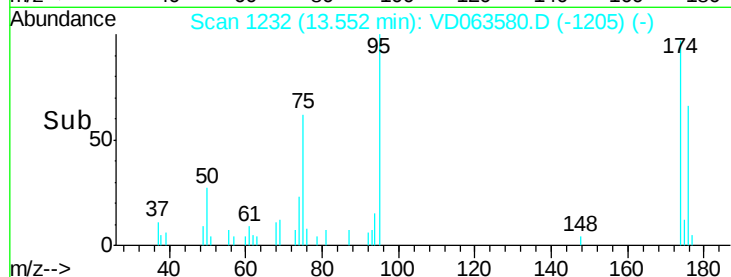
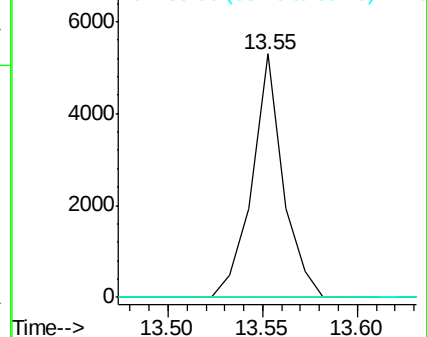
75 100

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



#95

Naphthalene

Concen: 1.317 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD063580.D

Acq: 14 Aug 2019 18:04

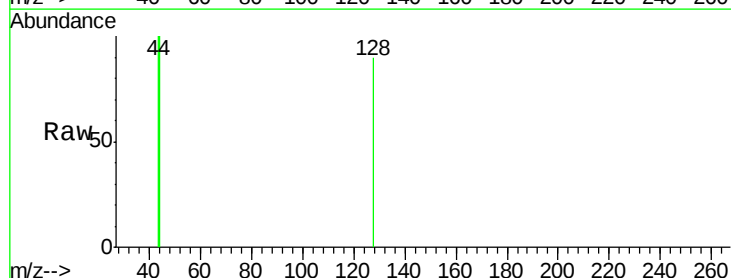
Tgt Ion: 128 Resp: 605

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

