

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\
 Data File : VD063583.D
 Acq On : 14 Aug 2019 19:26
 Operator : JC/SY
 Sample : K4290-01RE
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 15 12:01:58 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	7.04	168	31681	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	48337	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	41419	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	12794	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	35378	104.47	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	208.94%	
35) Dibromofluoromethane	6.92	113	27980	68.73	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	137.46%	
50) Toluene-d8	10.40	98	36835	41.16	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	82.32%	
62) 4-Bromofluorobenzene	13.56	95	11944	29.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	58.88%	

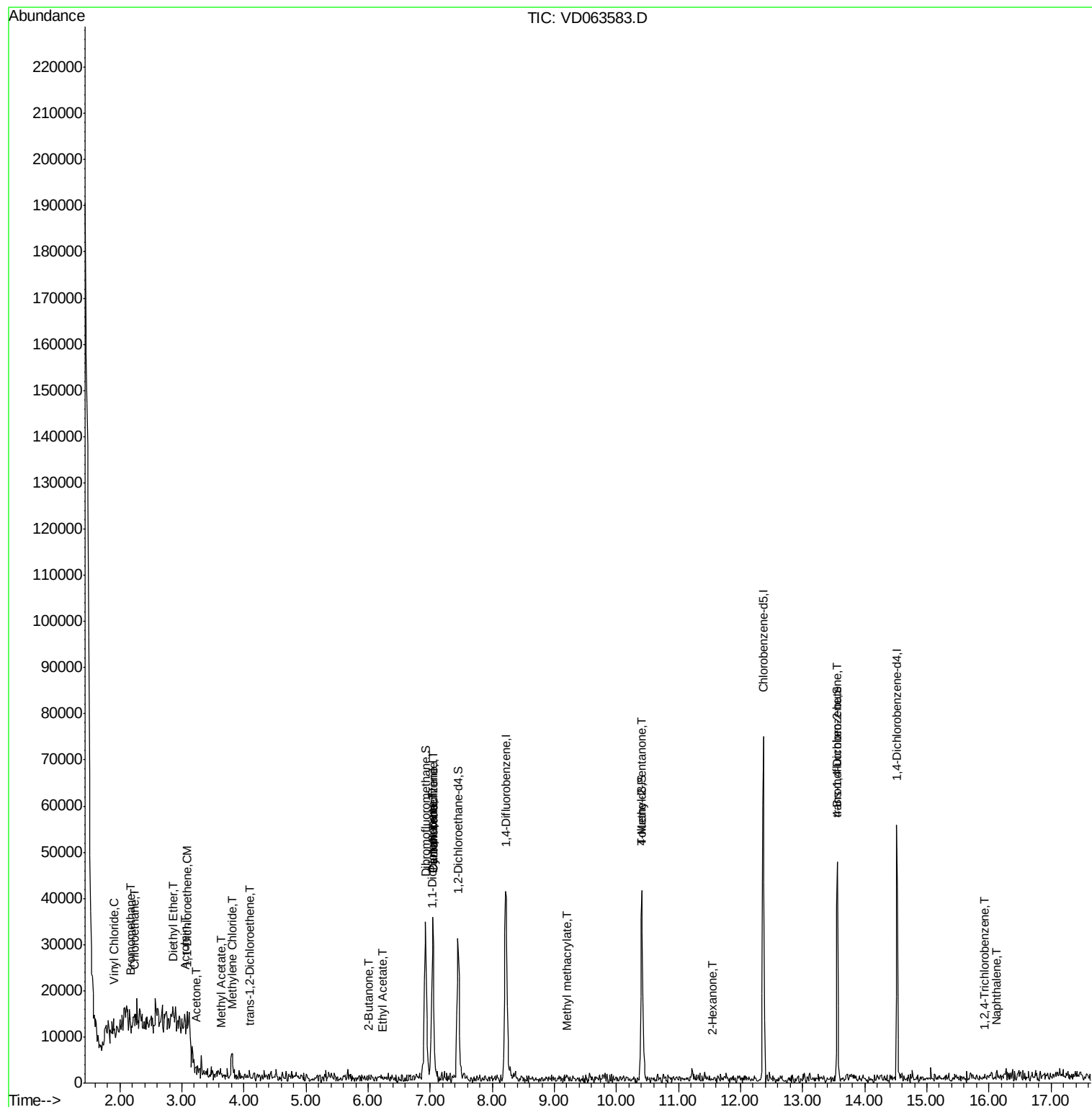
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.92	62	301	1.013	ug/l #	42
5) Bromomethane	2.18	94	1457	10.387	ug/l #	8
6) Chloroethane	2.24	64	179	1.317	ug/l #	42
8) Diethyl Ether	2.86	74	297	3.607	ug/l #	83
12) 1,1-Dichloroethene	3.09	96	289	1.129	ug/l #	1
13) Acrolein	3.04	56	259	17.849	ug/l	89
16) Acetone	3.23	43	255	3.704	ug/l #	65
18) Methyl Acetate	3.64	43	480	3.681	ug/l #	57
20) Methylene Chloride	3.82	84	2038	6.846	ug/l #	44
21) trans-1,2-Dichloroethene	4.09	96	314	1.166	ug/l #	1
25) 2-Butanone	6.02	43	245	3.604	ug/l #	58
31) Cyclohexane	7.05	56	451	1.475	ug/l #	1
36) 1,1-Dichloropropene	7.02	75	1715	4.013	ug/l #	42
37) Ethyl Acetate	6.23	43	184	1.028	ug/l #	73
38) Carbon Tetrachloride	7.03	117	2568	3.988	ug/l #	13
48) Methyl methacrylate	9.20	41	190	1.168	ug/l #	18
51) 4-Methyl-2-Pentanone	10.41	43	192	1.170	ug/l #	40
59) 2-Hexanone	11.55	43	185	1.549	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	6135	155.455	ug/l #	7
93) 1,2,4-Trichlorobenzene	15.94	180	507	2.019	ug/l #	10
95) Naphthalene	16.13	128	679	1.784	ug/l #	71

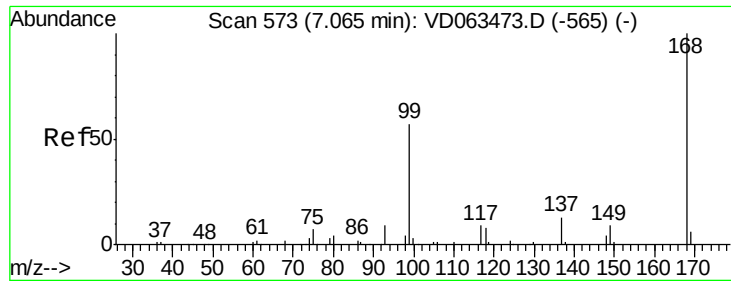
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

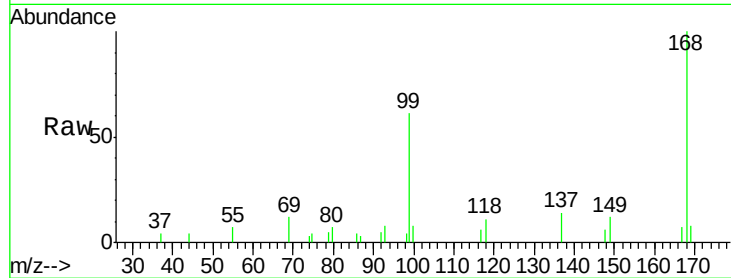
ClientSampleId :

Tot Ion:168 Resp: 31681

Ion Ratio Lower Upper

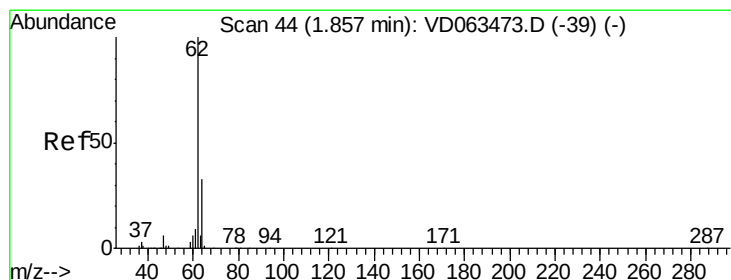
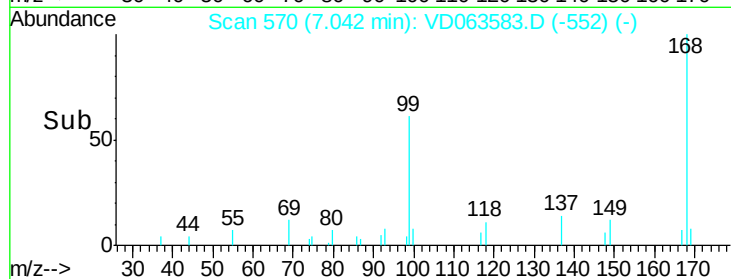
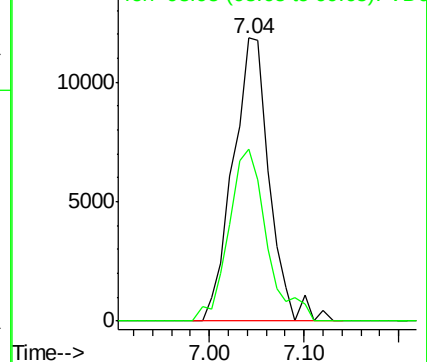
168 100

99 60.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 1.013 ug/l

RT: 1.92 min Scan# 50

Delta R.T. 0.07 min

Lab File: VD063583.D

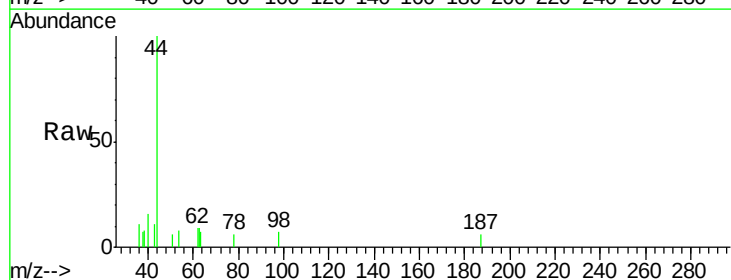
Acq: 14 Aug 2019 19:26

Tgt Ion: 62 Resp: 301

Ion Ratio Lower Upper

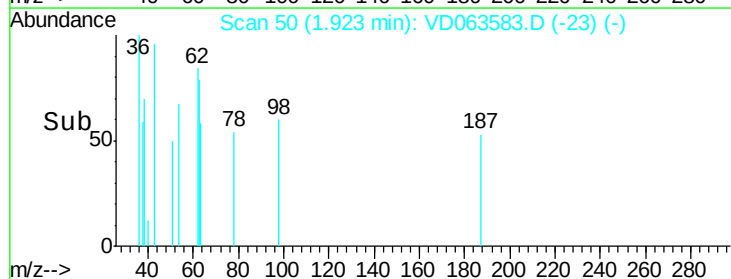
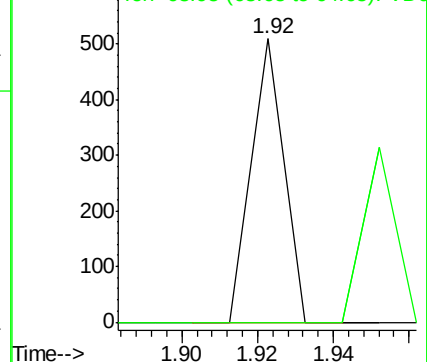
62 100

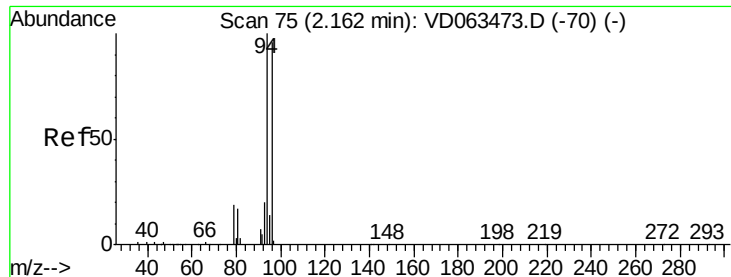
64 0.0 26.4 39.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 10.387 ug/l

RT: 2.18 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

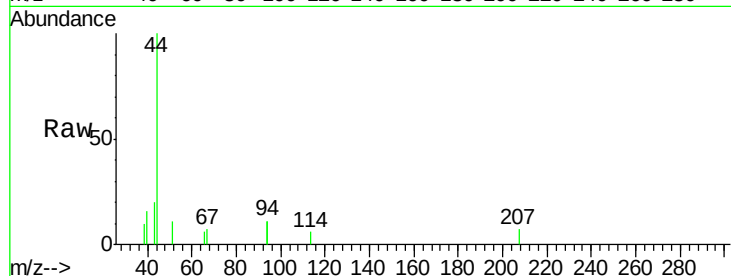
Tot Ion: 94 Resp: 1457

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

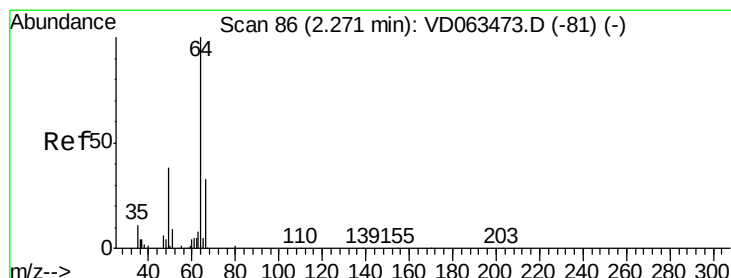
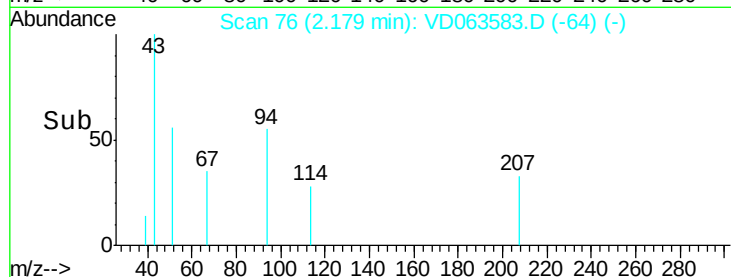
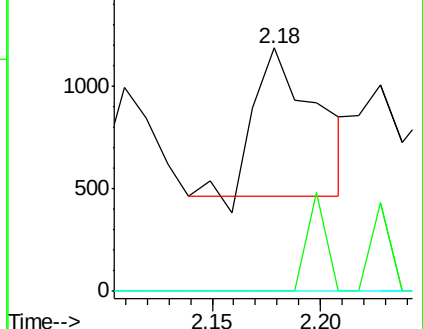
93 49.5 15.8 23.8#



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: 1.317 ug/l

RT: 2.24 min Scan# 82

Delta R.T. -0.03 min

Lab File: VD063583.D

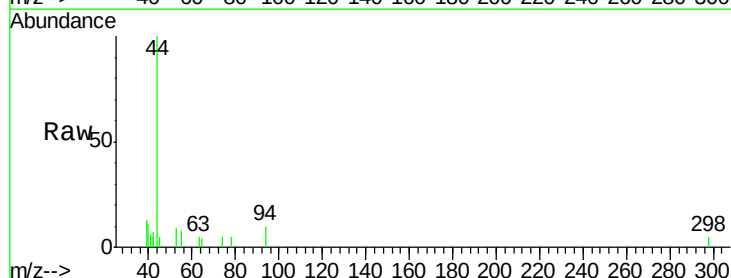
Acq: 14 Aug 2019 19:26

Tgt Ion: 64 Resp: 179

Ion Ratio Lower Upper

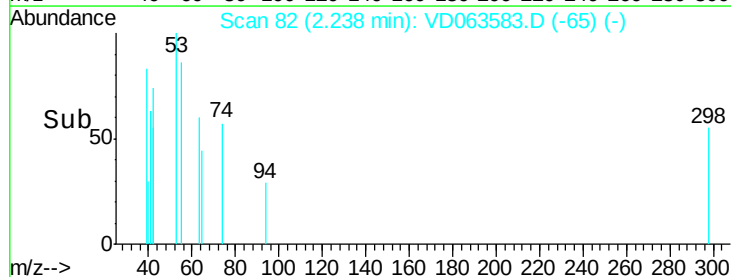
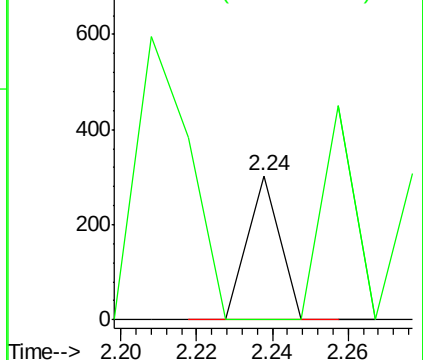
64 100

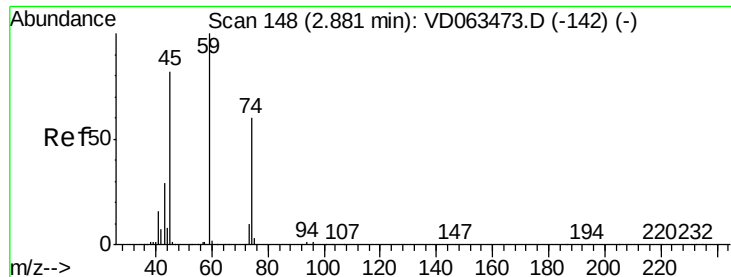
66 0.0 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 3.607 ug/l

RT: 2.86 min Scan# 145

Delta R.T. -0.02 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

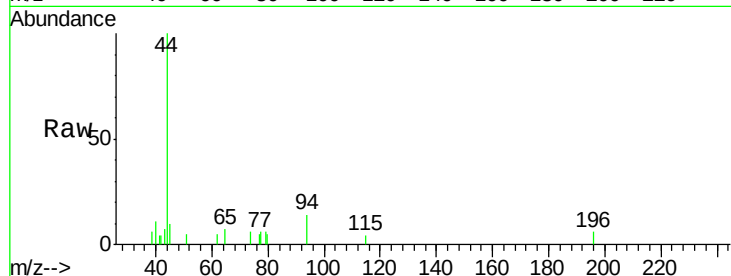
ClientSampleId :

Tot Ion: 74 Resp: 297

Ion Ratio Lower Upper

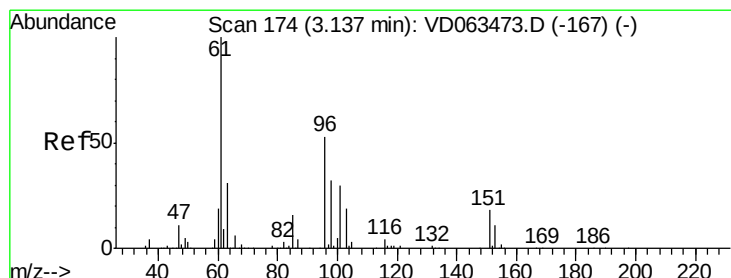
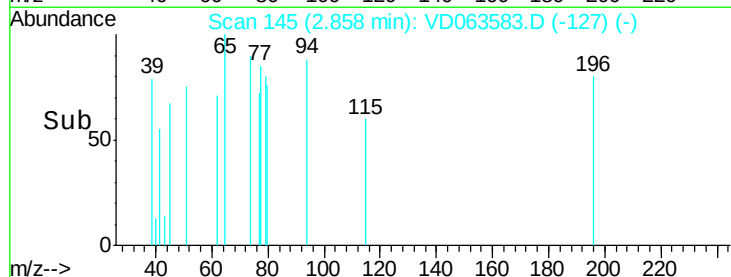
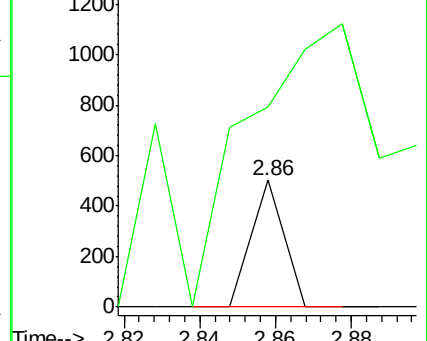
74 100

45 157.7 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#12

1,1-Dichloroethene

Concen: 1.129 ug/l

RT: 3.09 min Scan# 169

Delta R.T. -0.04 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

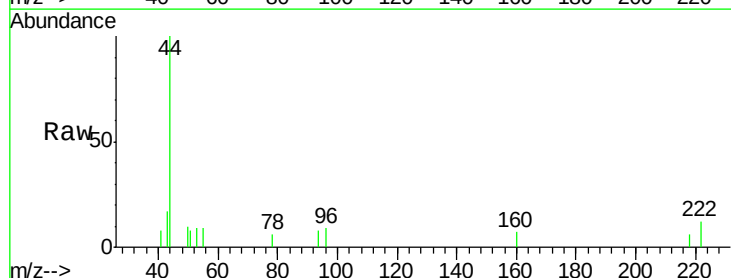
Tgt Ion: 96 Resp: 289

Ion Ratio Lower Upper

96 100

61 0.0 151.7 227.5#

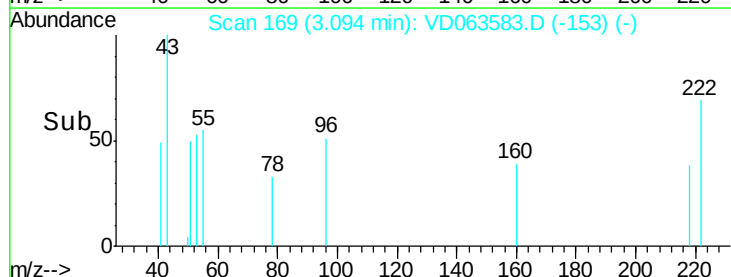
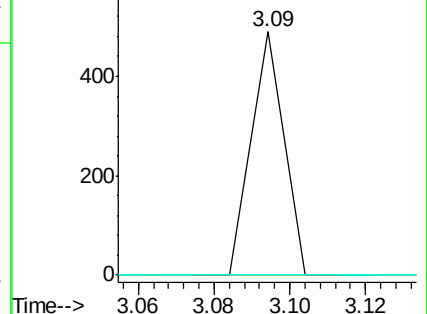
98 0.0 48.4 72.6#

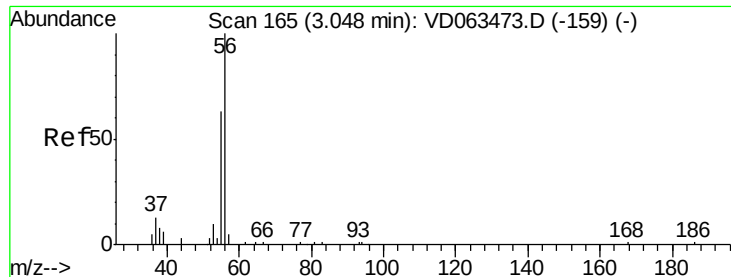


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 17.849 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.00 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

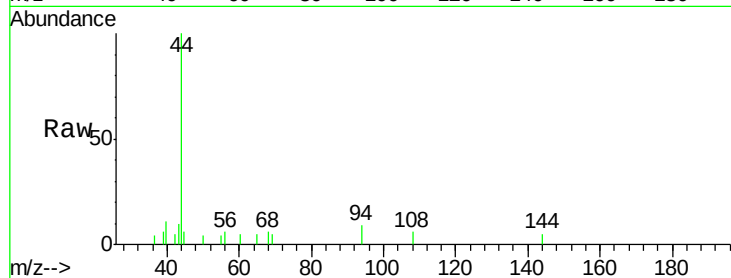
ClientSampled :

Tot Ion: 56 Resp: 259

Ion Ratio Lower Upper

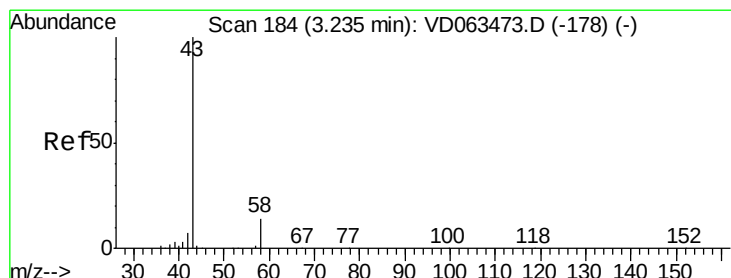
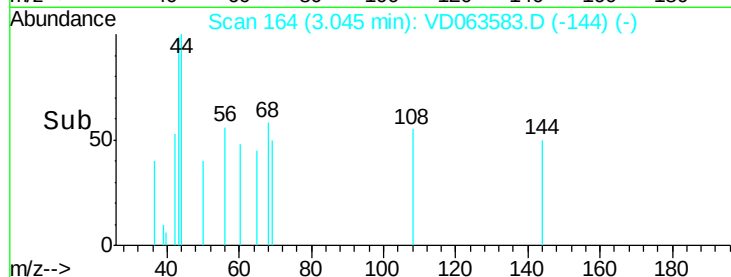
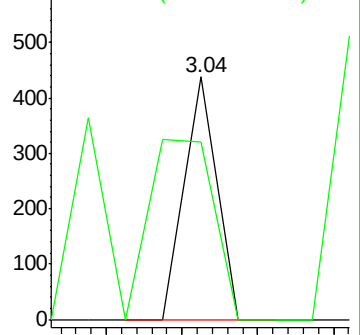
56 100

55 73.1 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: 3.704 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063583.D

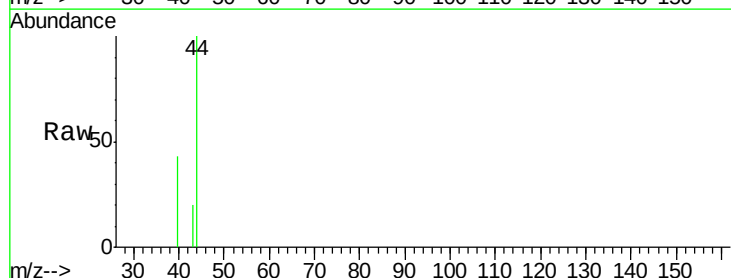
Acq: 14 Aug 2019 19:26

Tgt Ion: 43 Resp: 255

Ion Ratio Lower Upper

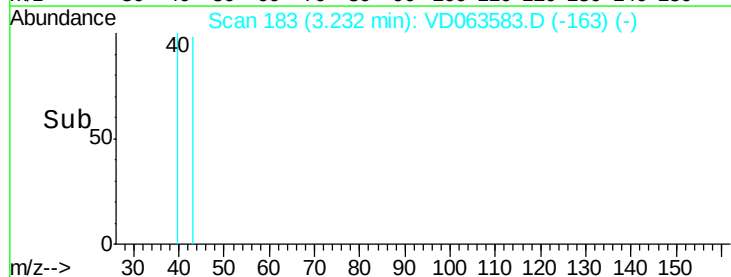
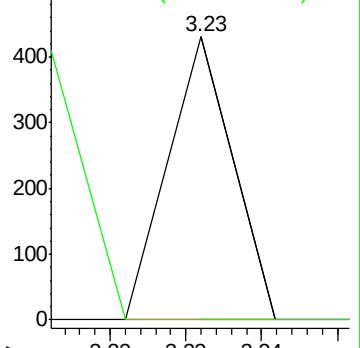
43 100

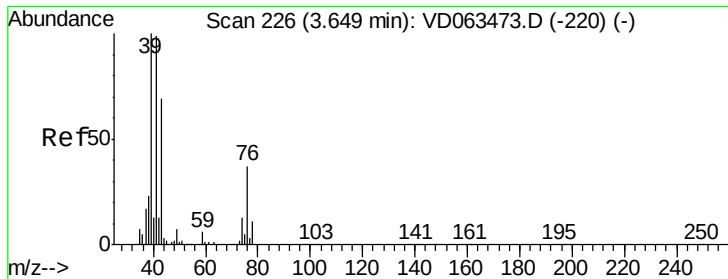
58 0.0 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

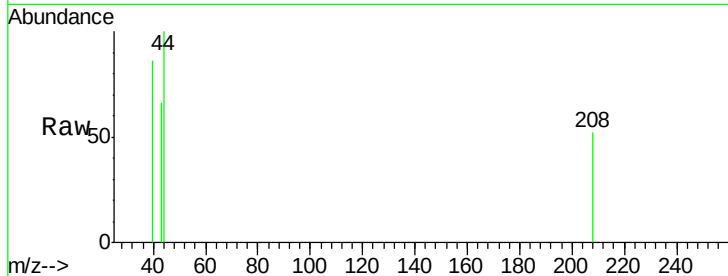




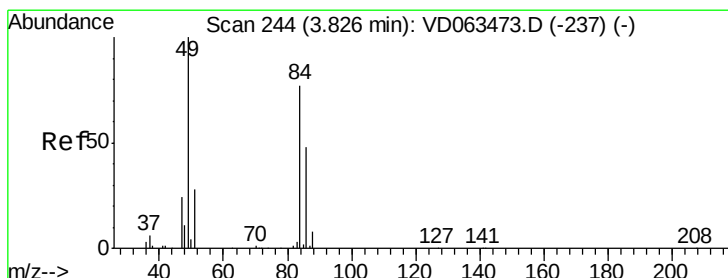
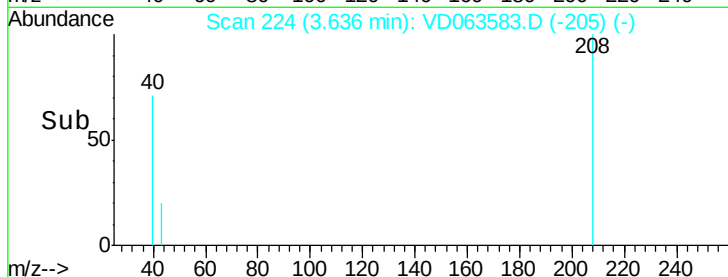
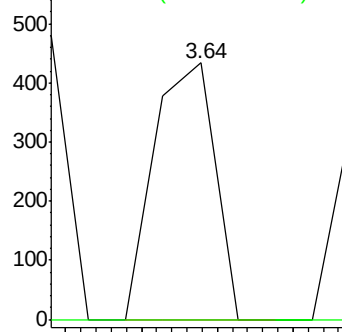
#18
Methyl Acetate
Concen: 3.681 ug/l
RT: 3.64 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 480
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#

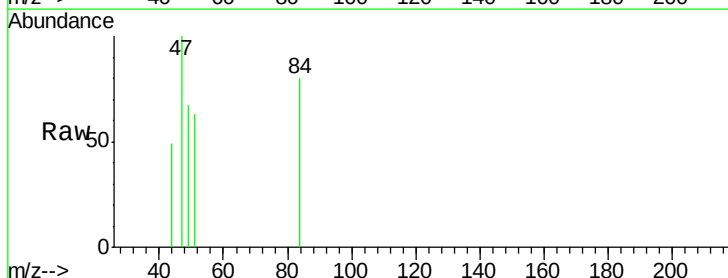


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

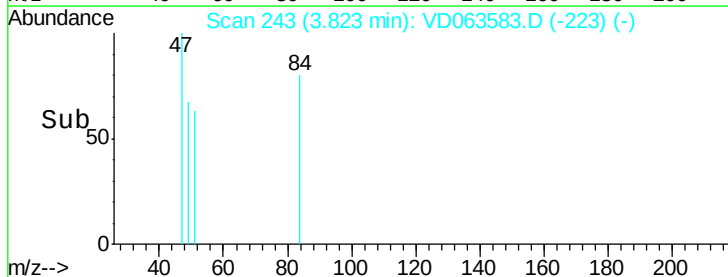
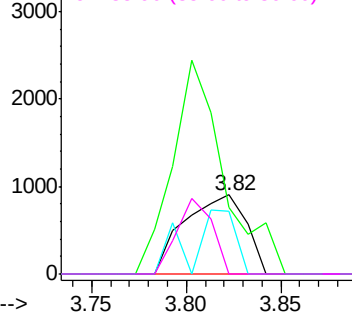


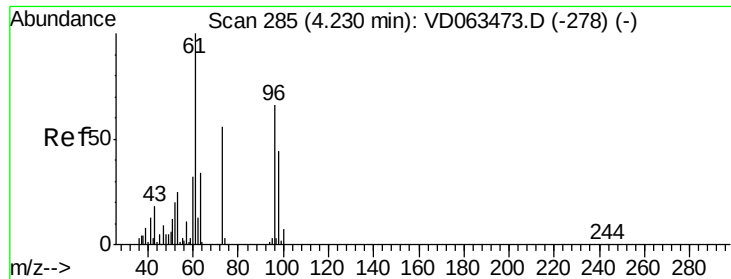
#20
Methylene Chloride
Concen: 6.846 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

Tgt Ion: 84 Resp: 2038
Ion Ratio Lower Upper
84 100
49 83.6 103.4 155.2#
51 78.6 28.5 42.7#
86 0.0 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





#21

trans-1,2-Dichloroethene

Concen: 1.166 ug/l

RT: 4.09 min Scan# 270

Delta R.T. -0.14 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

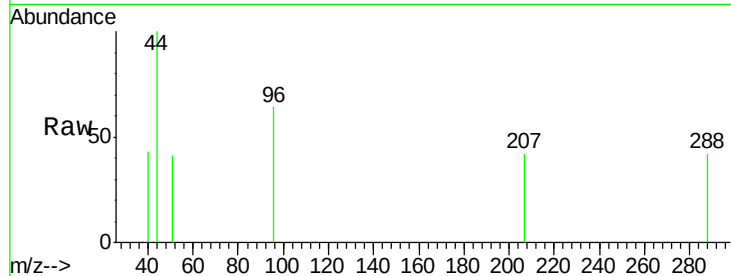
Tot Ion: 96 Resp: 314

Ion Ratio Lower Upper

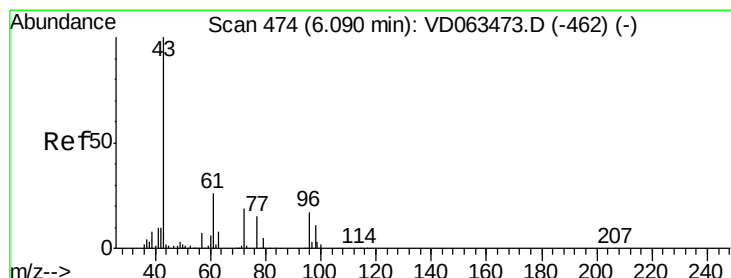
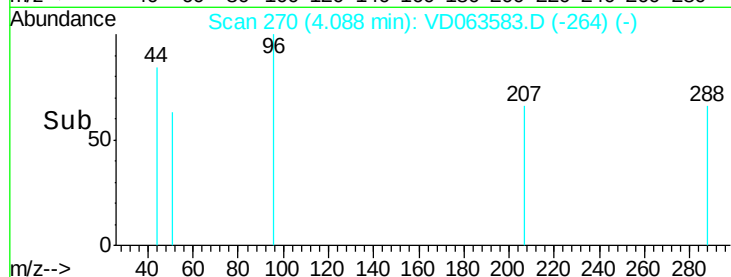
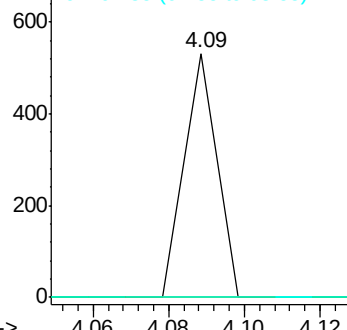
96 100

61 0.0 121.7 182.5#

98 0.0 54.2 81.2#



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



#25

2-Butanone

Concen: 3.604 ug/l

RT: 6.02 min Scan# 466

Delta R.T. -0.07 min

Lab File: VD063583.D

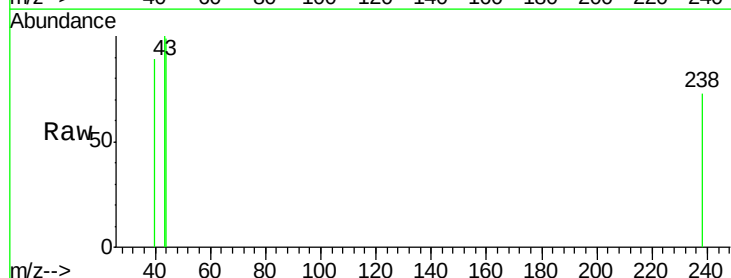
Acq: 14 Aug 2019 19:26

Tgt Ion: 43 Resp: 245

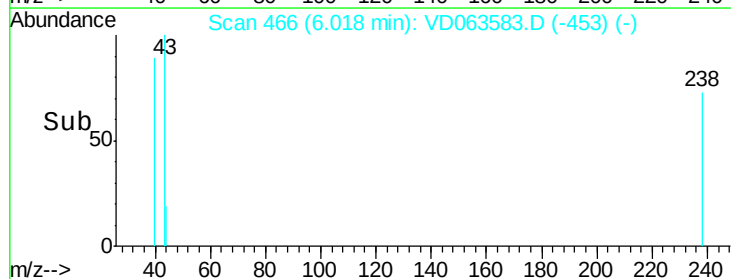
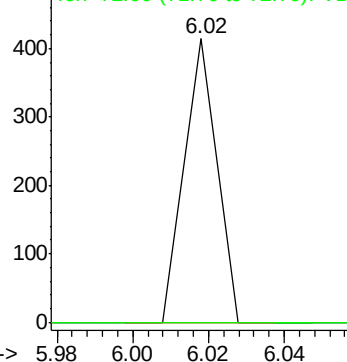
Ion Ratio Lower Upper

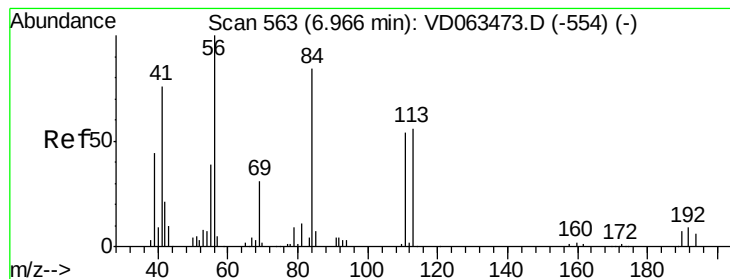
43 100

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





#31

Cvclohexane

Concen: 1.475 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.09 min

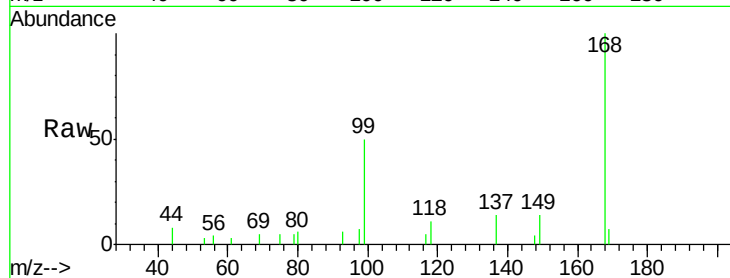
Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 451

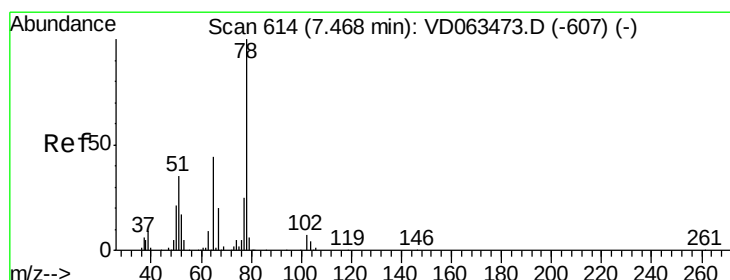
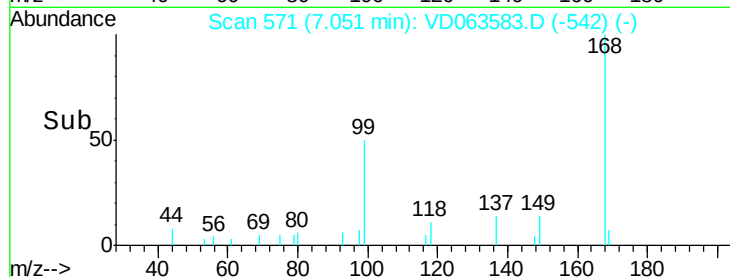
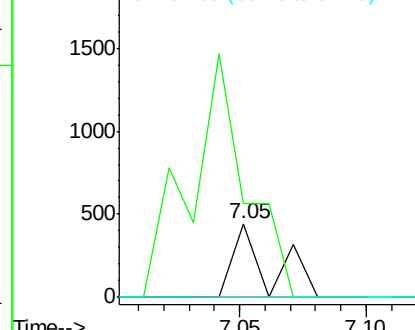
Ion	Ratio	Lower	Upper
56	100		
69	126.7	25.0	37.6#
84	0.0	69.7	104.5#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 104.469 ug/l

RT: 7.45 min Scan# 611

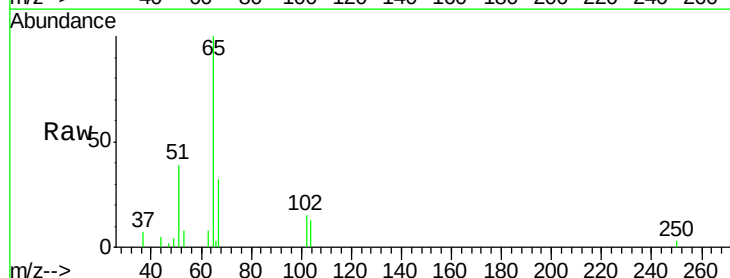
Delta R.T. -0.02 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

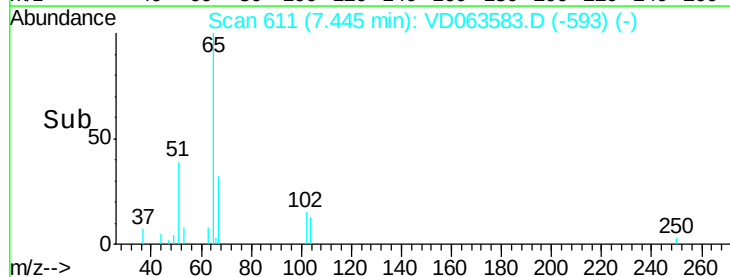
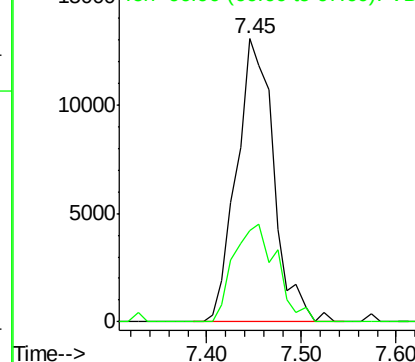
Tgt Ion: 65 Resp: 35378

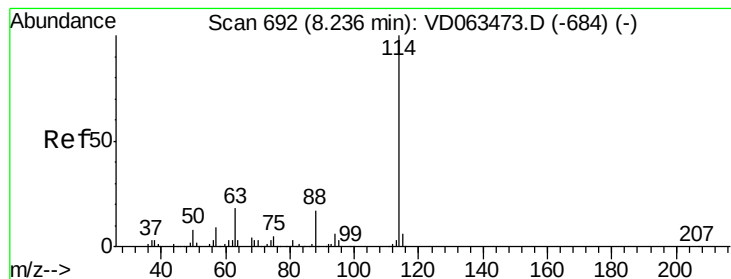
Ion	Ratio	Lower	Upper
65	100		
67	32.5	0.0	89.2



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: 8.22 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD063583.D

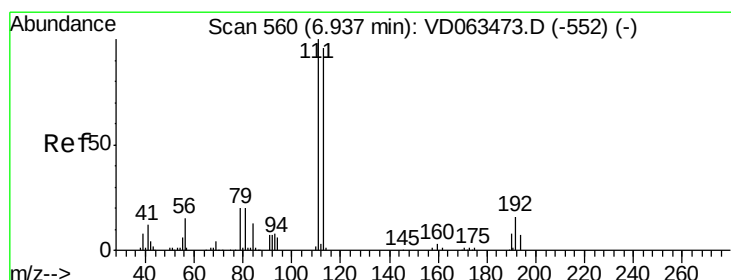
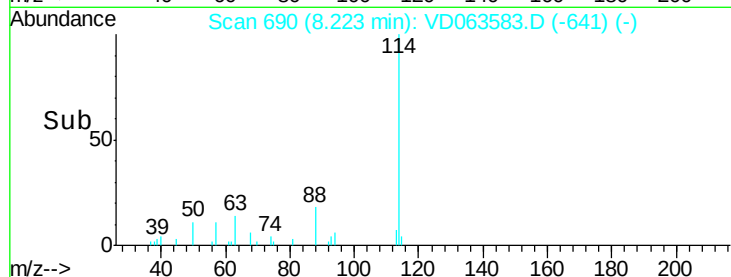
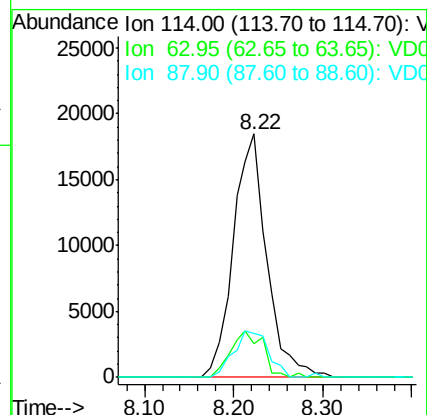
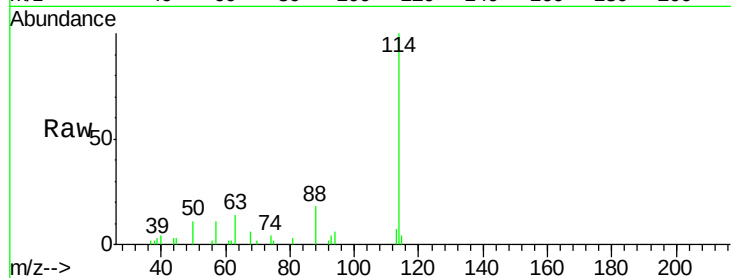
Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:114	Resp:	48337
Ion	Ratio	Lower Upper
114	100	
63	14.0	0.0 36.2
88	18.0	0.0 35.0



#35

Dibromofluoromethane

Concen: 68.731 ug/l

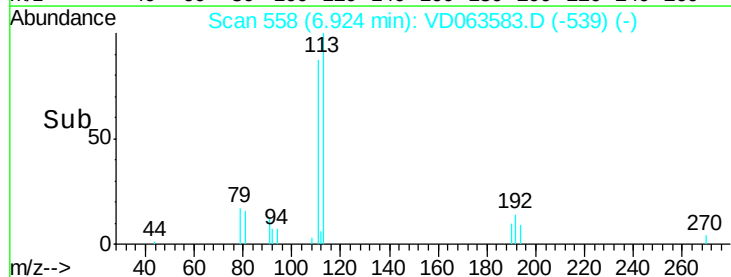
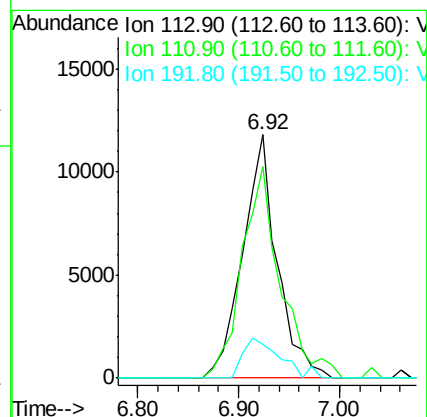
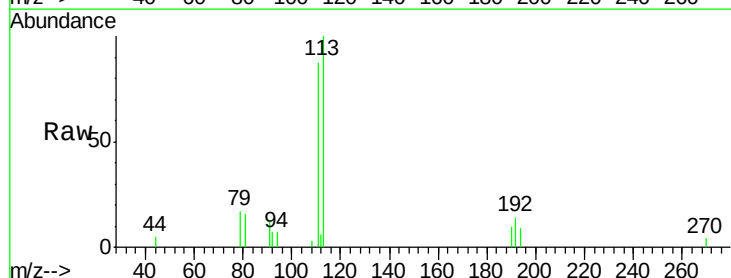
RT: 6.92 min Scan# 558

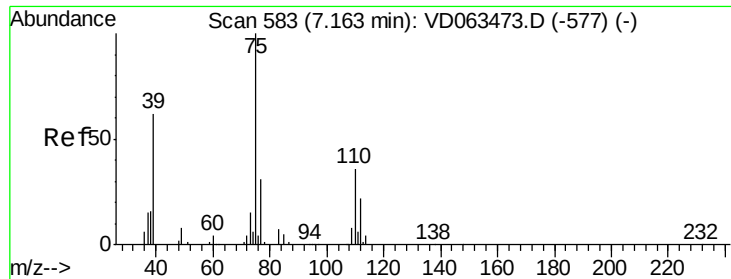
Delta R.T. -0.01 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Tgt Ion:113	Resp:	27980
Ion	Ratio	Lower Upper
113	100	
111	86.7	83.1 124.7
192	13.8	13.1 19.7

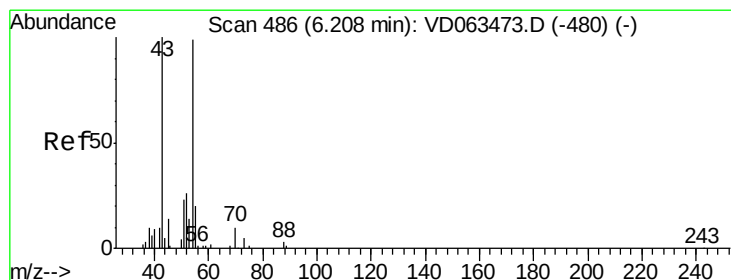
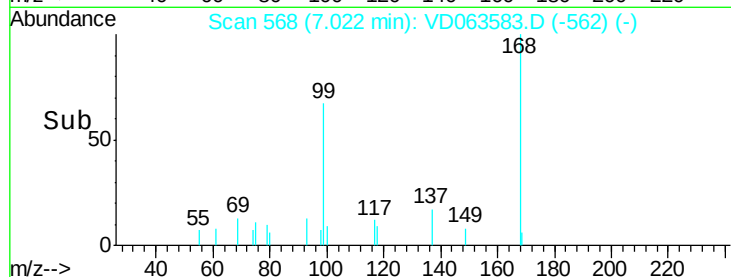
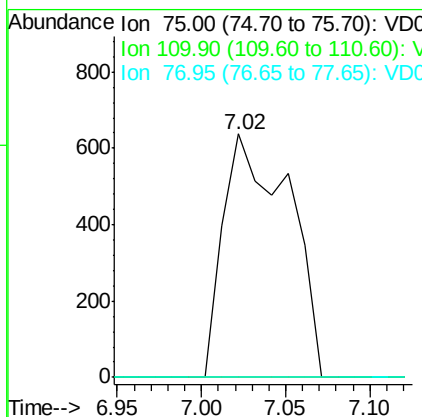
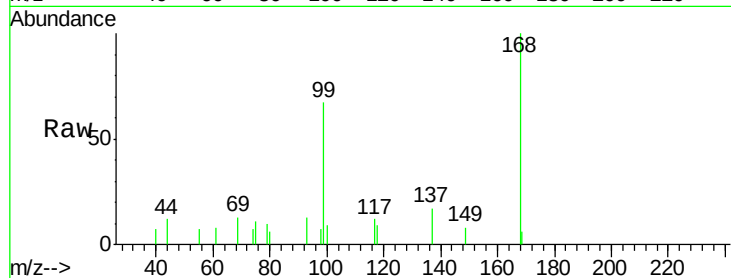




#36
 1,1-Dichloropropene
 Concen: 4.013 ug/l
 RT: 7.02 min Scan# 568
 Delta R.T. -0.14 min
 Lab File: VD063583.D
 Acq: 14 Aug 2019 19:26

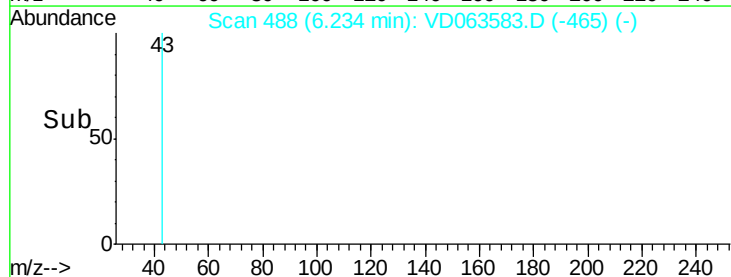
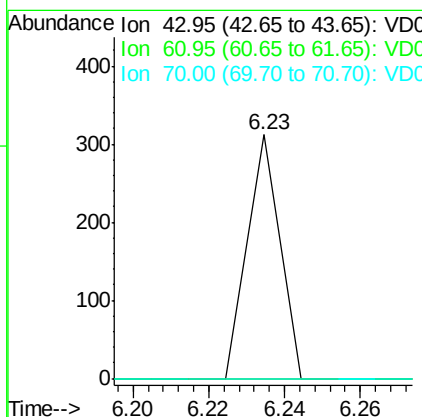
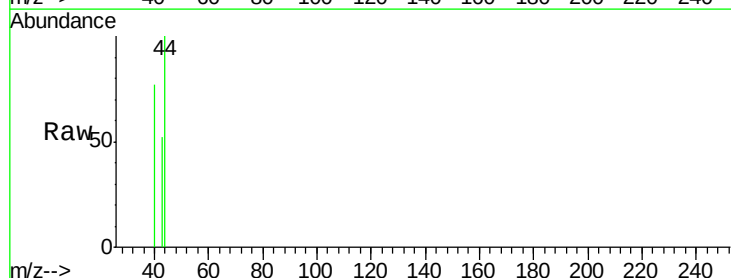
Instrument :
 MSVOA_D
 ClientSampleId :

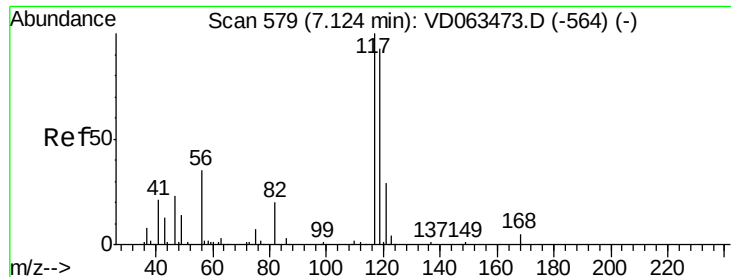
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.6	52.8#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 1.028 ug/l
 RT: 6.23 min Scan# 488
 Delta R.T. 0.03 min
 Lab File: VD063583.D
 Acq: 14 Aug 2019 19:26

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.0	13.6#
70	0.0	6.9	10.3#

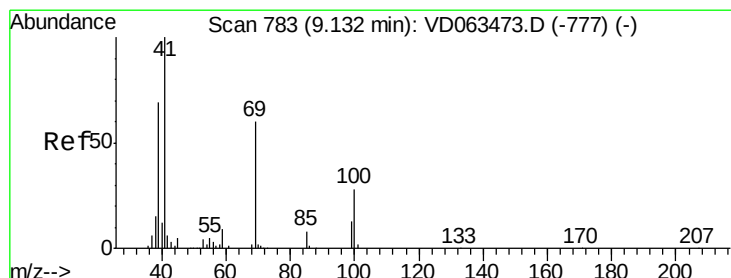
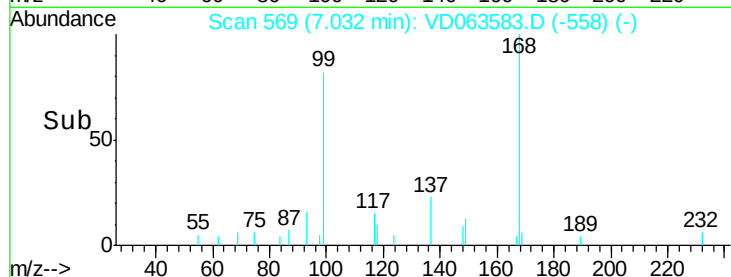
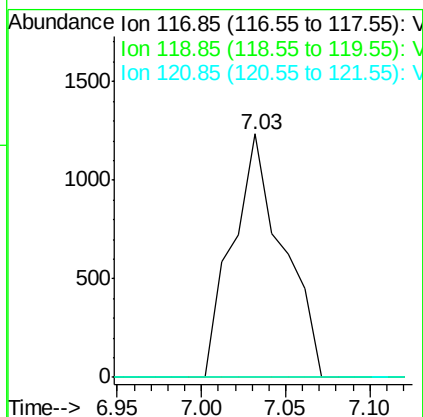
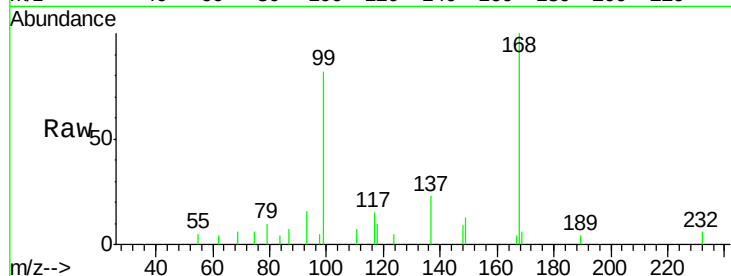




#38
Carbon Tetrachloride
Concen: 3.988 ug/l
RT: 7.03 min Scan# 569
Delta R.T. -0.09 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

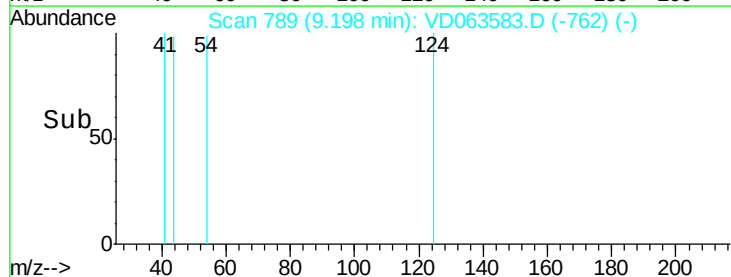
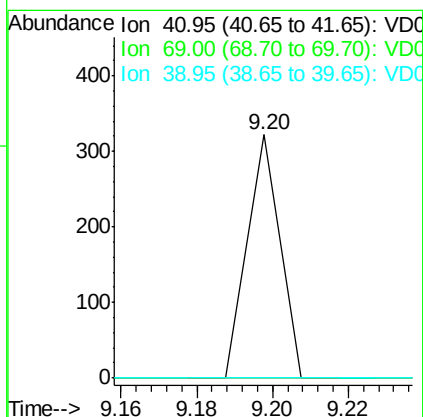
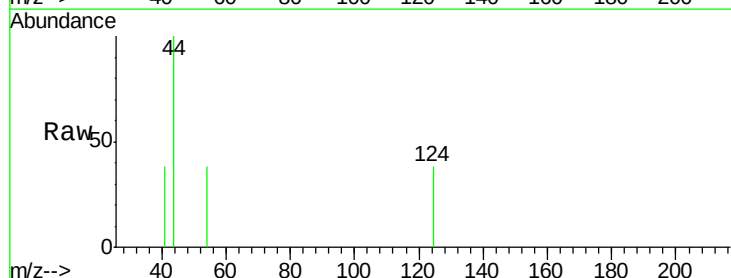
Instrument :
MSVOA_D
ClientSampleId :

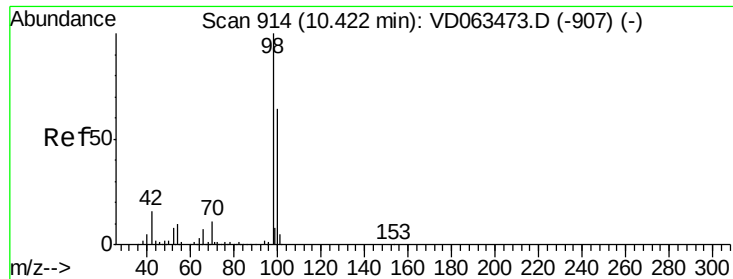
Tot Ion:117 Resp: 2568
Ion Ratio Lower Upper
117 100
119 0.0 74.2 111.2#
121 0.0 23.1 34.7#



#48
Methyl methacrylate
Concen: 1.168 ug/l
RT: 9.20 min Scan# 789
Delta R.T. 0.07 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

Tgt Ion: 41 Resp: 190
Ion Ratio Lower Upper
41 100
69 0.0 47.6 71.4#
39 0.0 55.7 83.5#

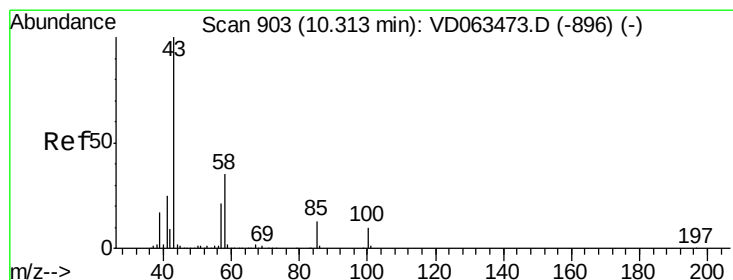
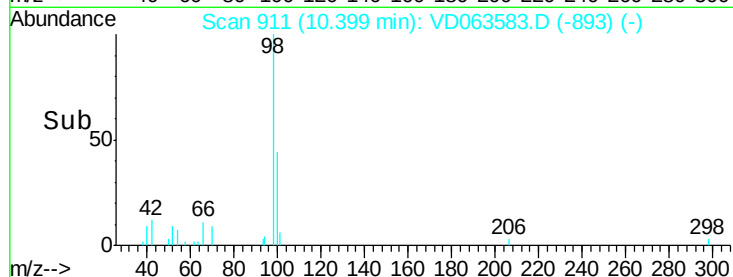
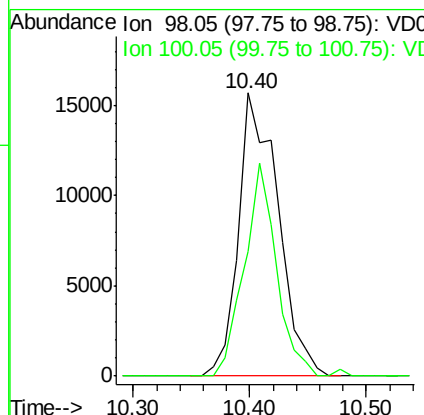
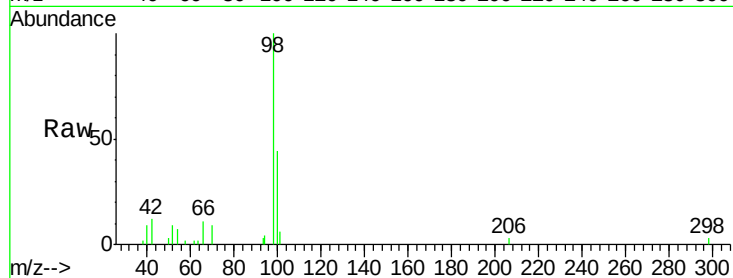




#50
Toluene-d8
Concen: 41.155 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.02 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

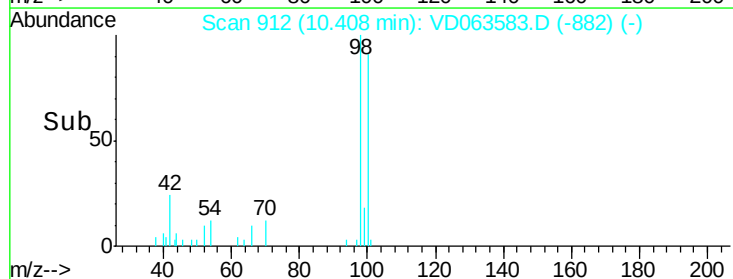
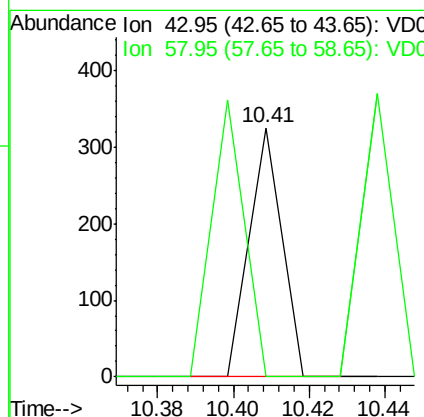
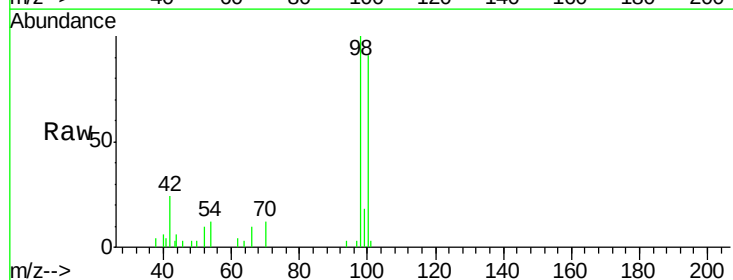
Instrument :
MSVOA_D
ClientSampleId :

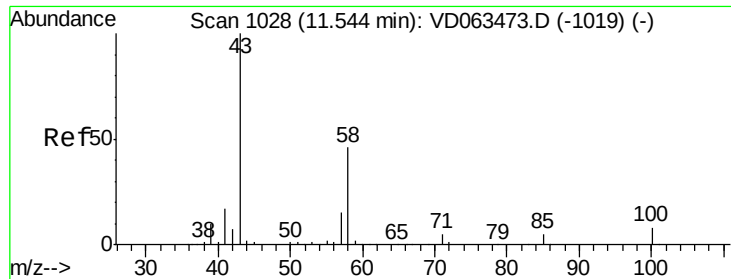
Tot Ion: 98 Resp: 36835
Ion Ratio Lower Upper
98 100
100 43.9 51.7 77.5#



#51
4-Methyl-2-Pentanone
Concen: 1.170 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.09 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#





#59

2-Hexanone

Concen: 1.549 ug/l

RT: 11.55 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

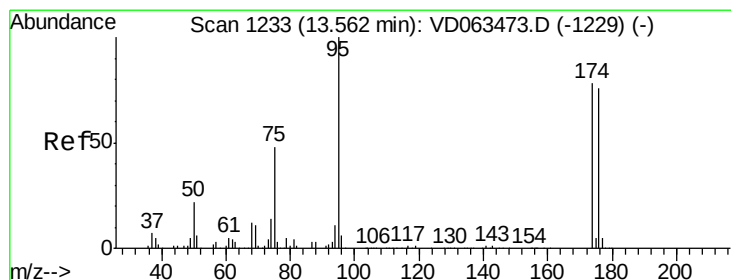
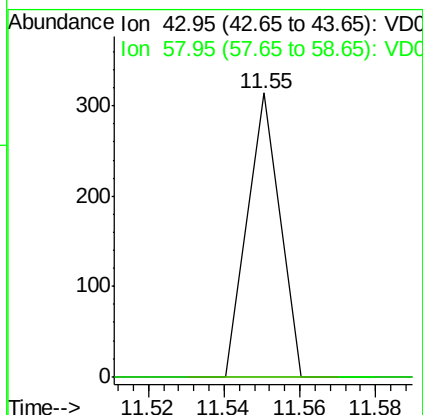
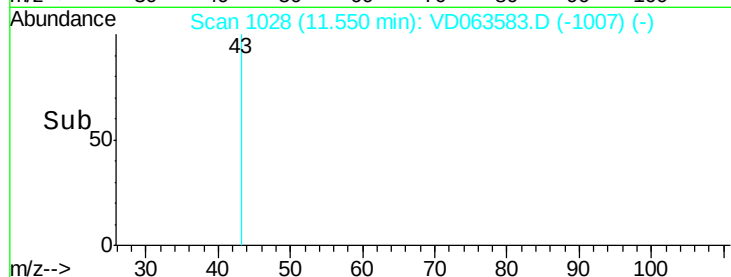
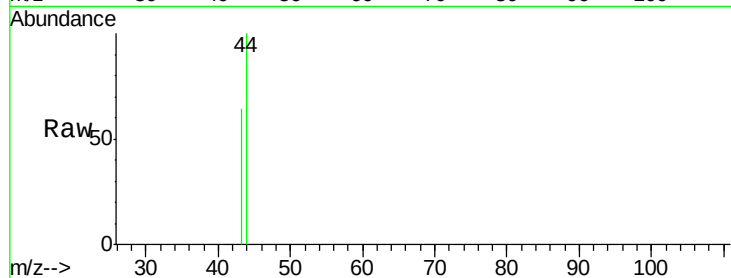
ClientSampleId :

Tot Ion: 43 Resp: 185

Ion Ratio Lower Upper

43 100

58 0.0 23.1 69.2#



#62

4-Bromofluorobenzene

Concen: 29.443 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

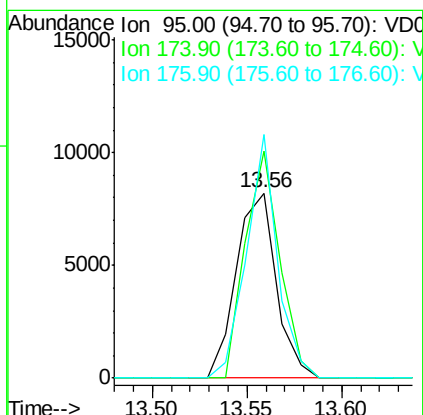
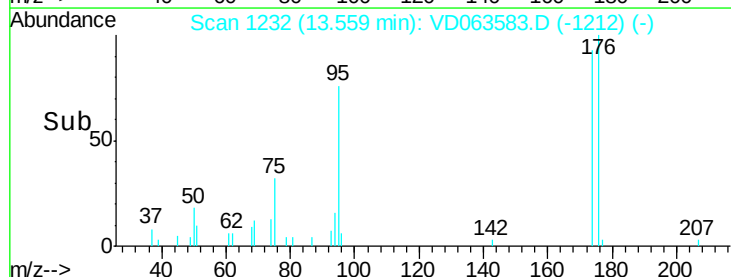
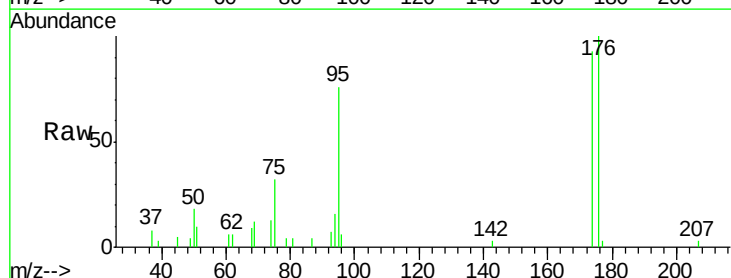
Tgt Ion: 95 Resp: 11944

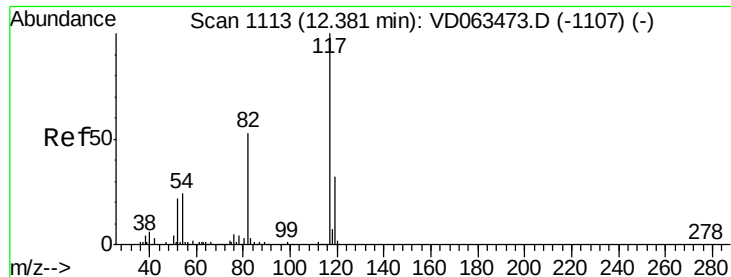
Ion Ratio Lower Upper

95 100

174 122.5 0.0 155.4

176 131.6 0.0 152.4

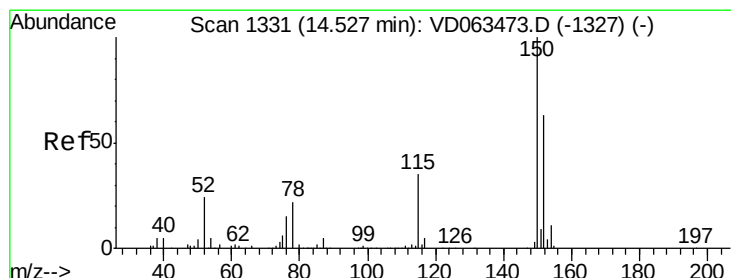
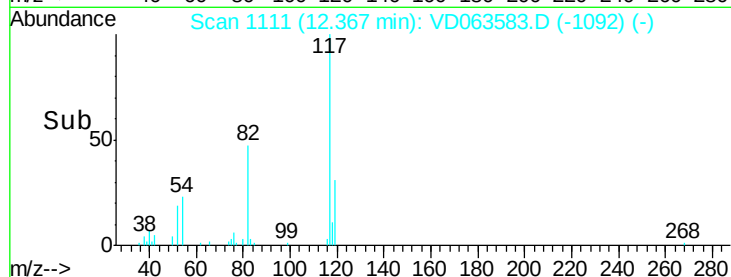
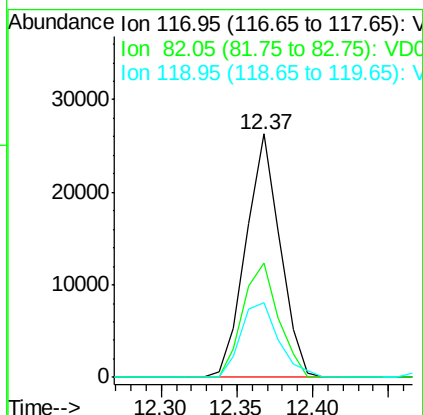
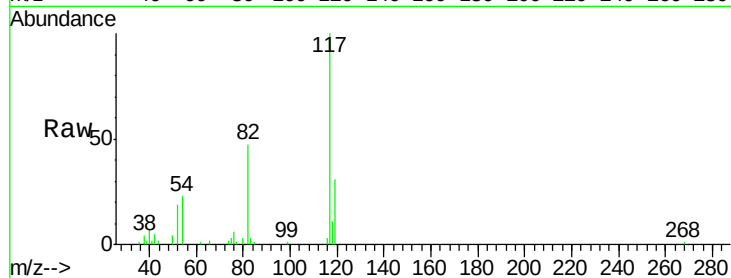




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

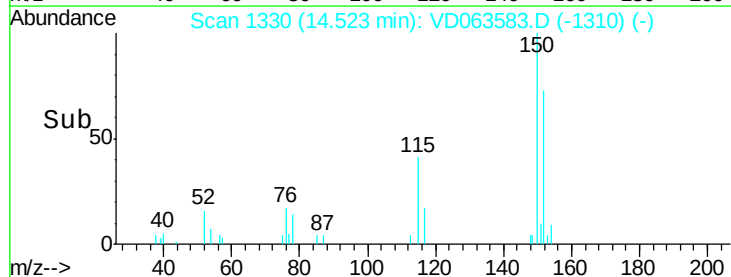
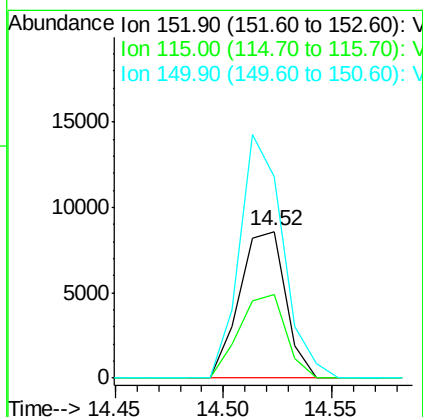
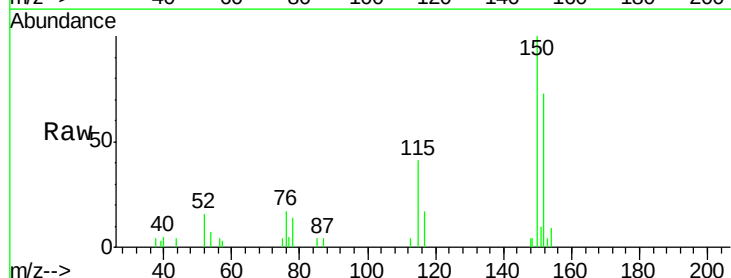
Instrument :
MSVOA_D
ClientSampleId :

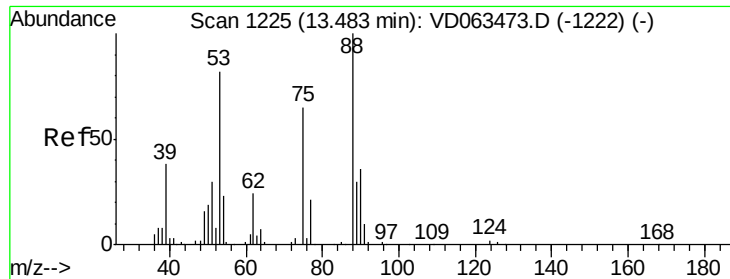
Tot Ion:117 Resp: 41419
Ion Ratio Lower Upper
117 100
82 47.0 42.0 63.0
119 30.8 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063583.D
Acq: 14 Aug 2019 19:26

Tgt Ion:152 Resp: 12794
Ion Ratio Lower Upper
152 100
115 56.9 30.9 92.7
150 137.8 0.0 318.6





#81

trans-1,4-Dichloro-2-butene

Concen: 155.455 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

Instrument :

MSVOA_D

ClientSampleId :

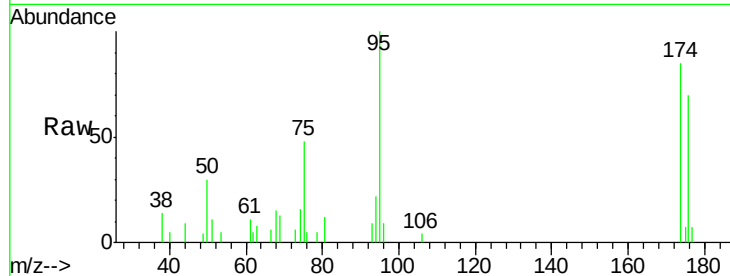
Tot Ion: 75 Resp: 6135

Ion Ratio Lower Upper

75 100

53 9.5 101.0 151.4#

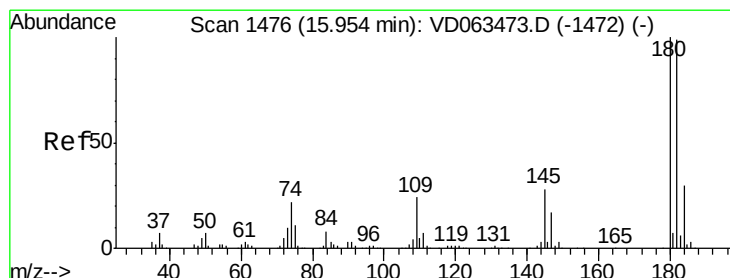
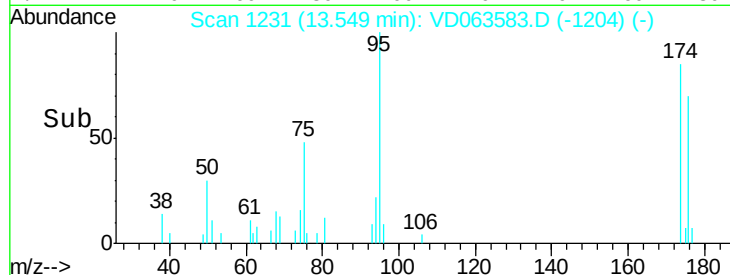
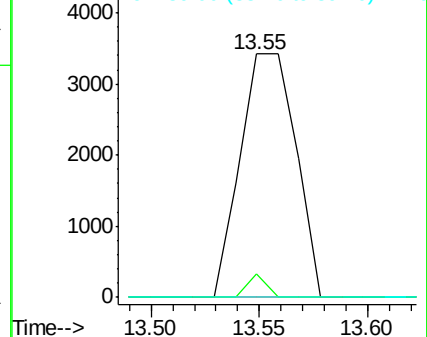
89 0.0 37.0 55.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 2.019 ug/l

RT: 15.94 min Scan# 1474

Delta R.T. -0.01 min

Lab File: VD063583.D

Acq: 14 Aug 2019 19:26

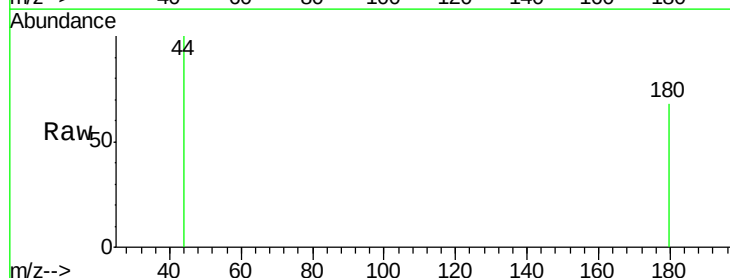
Tgt Ion: 180 Resp: 507

Ion Ratio Lower Upper

180 100

182 0.0 49.7 149.1#

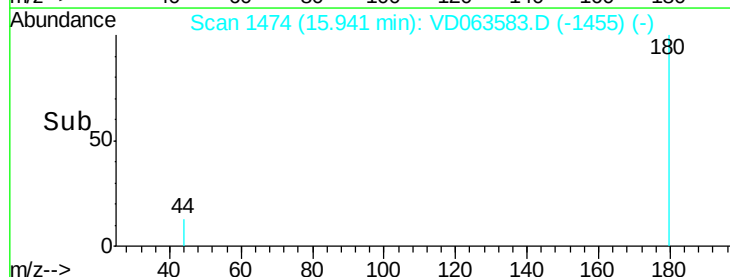
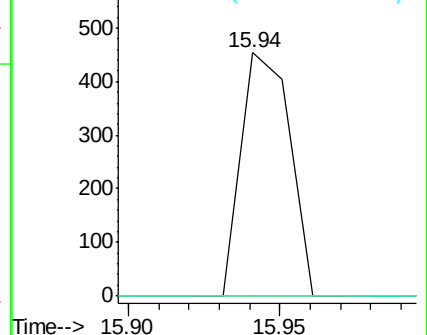
145 0.0 14.1 42.2#

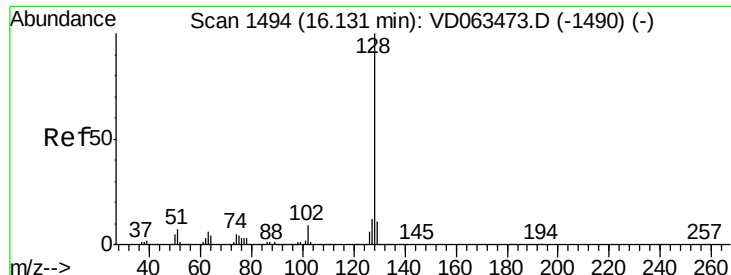


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

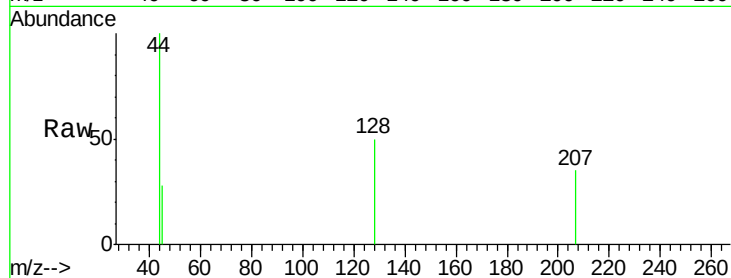




#95
 Naphthalene
 Concen: 1.784 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD063583.D
 Acq: 14 Aug 2019 19:26

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 679
 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

