

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073119\
 Data File : VD063281.D
 Acq On : 31 Jul 2019 16:15
 Operator : VA/AP
 Sample : K4074-07RE
 Misc : 2.67g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 01 04:03:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	26295	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	40370	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	32526	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	17131	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	23042	78.97	ug/l	-0.01
Spiked Amount			Recovery	=	157.94%	
35) Dibromofluoromethane	6.91	113	15589	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
50) Toluene-d8	10.40	98	30277	39.25	ug/l	0.00
Spiked Amount			Recovery	=	78.50%	
62) 4-Bromofluorobenzene	13.55	95	13252	37.70	ug/l	0.00
Spiked Amount			Recovery	=	75.40%	

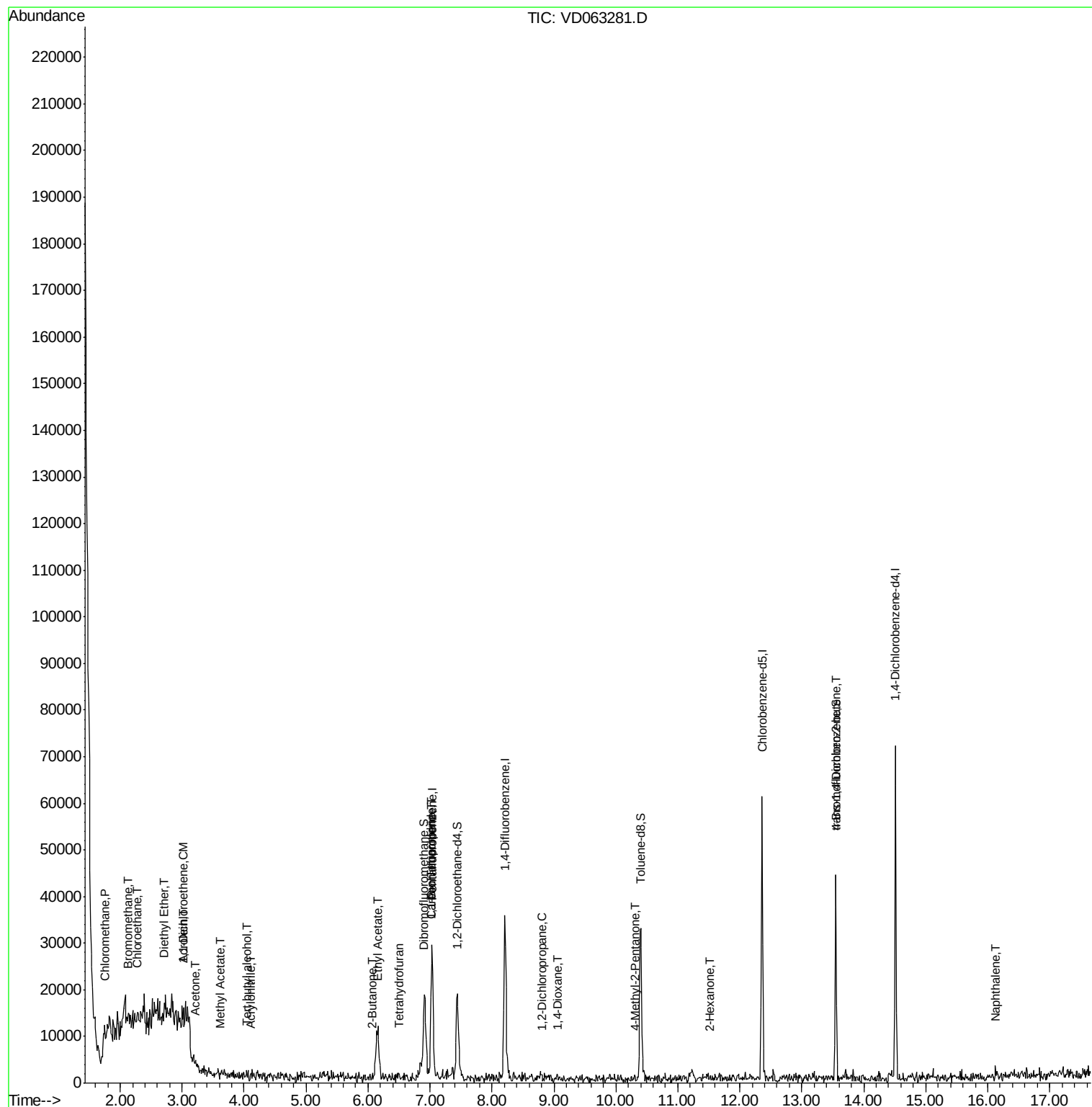
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	409	1.638	ug/l #	46
5) Bromomethane	2.13	94	394	3.022	ug/l #	12
6) Chloroethane	2.29	64	194	1.625	ug/l #	1
8) Diethyl Ether	2.70	74	233	3.320	ug/l #	6
11) Tert butyl alcohol	4.04	59	181	14.136	ug/l #	69
12) 1,1-Dichloroethene	3.02	96	223	1.093	ug/l #	1
13) Acrolein	3.02	56	211	17.123	ug/l #	18
15) Acrylonitrile	4.11	53	227	6.838	ug/l #	14
16) Acetone	3.22	43	2226	39.157	ug/l #	62
18) Methyl Acetate	3.61	43	346	3.169	ug/l #	60
25) 2-Butanone	6.06	43	190	3.330	ug/l #	56
29) Tetrahydrofuran	6.49	42	236	8.737	ug/l #	33
36) 1,1-Dichloropropene	7.02	75	2035	5.523	ug/l #	44
37) Ethyl Acetate	6.17	43	317	1.915	ug/l #	70
38) Carbon Tetrachloride	7.02	117	3008	5.423	ug/l #	32
45) 1,2-Dichloropropane	8.81	63	230	1.172	ug/l #	45
49) 1,4-Dioxane	9.04	88	187	157.513	ug/l #	22
51) 4-Methyl-2-Pentanone	10.29	43	582	4.047	ug/l #	42
59) 2-Hexanone	11.52	43	201	1.940	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.55	75	6216	108.791	ug/l #	3
95) Naphthalene	16.12	128	1037	1.957	ug/l #	42

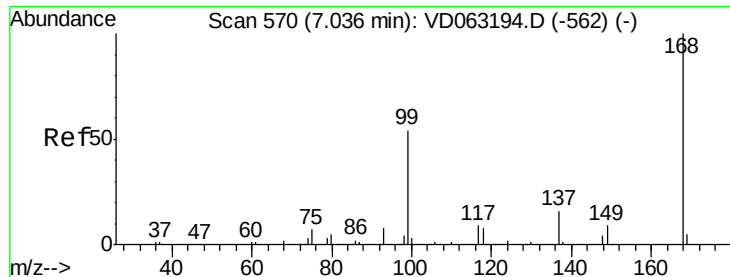
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

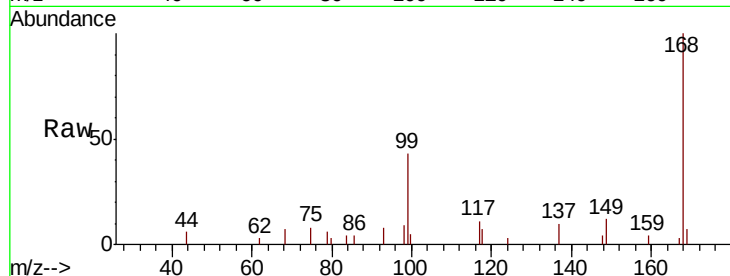
ClientSampleId :

Tot Ion:168 Resp: 26295

Ion Ratio Lower Upper

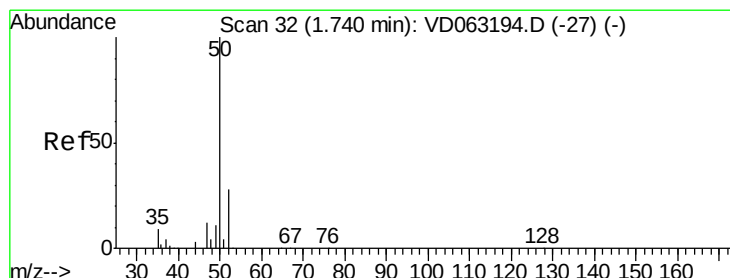
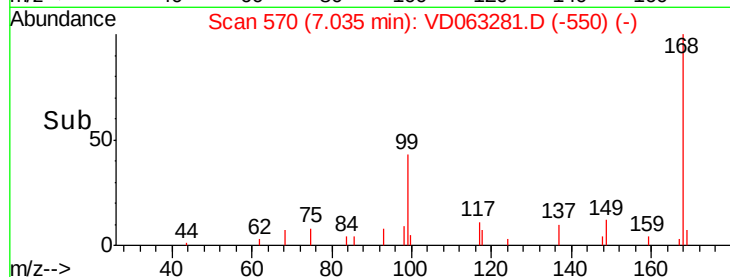
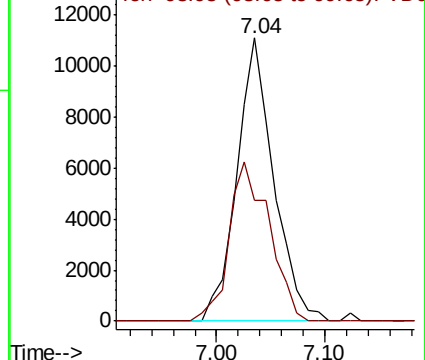
168 100

99 42.9 43.7 65.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.638 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD063281.D

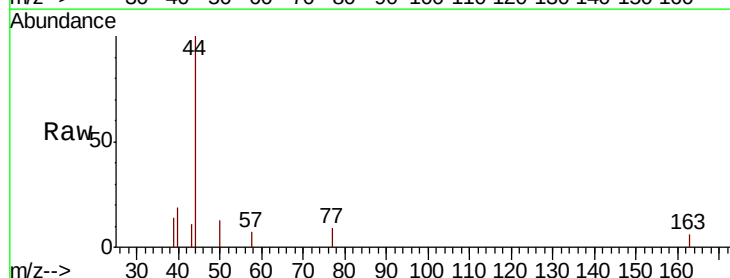
Acq: 31 Jul 2019 16:15

Tgt Ion: 50 Resp: 409

Ion Ratio Lower Upper

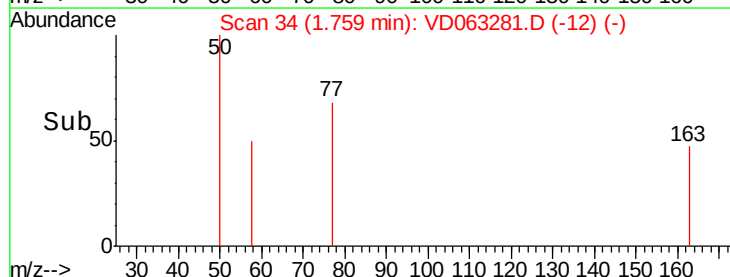
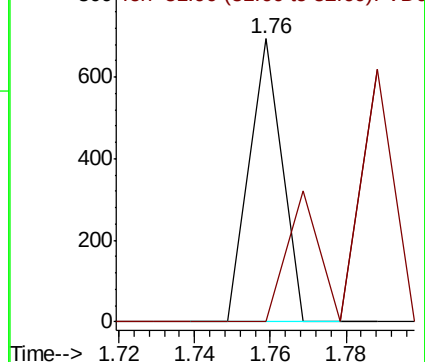
50 100

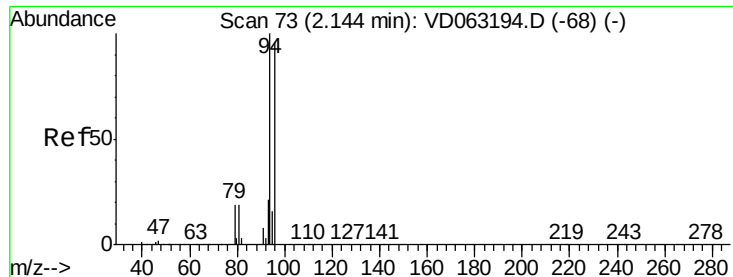
52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 3.022 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

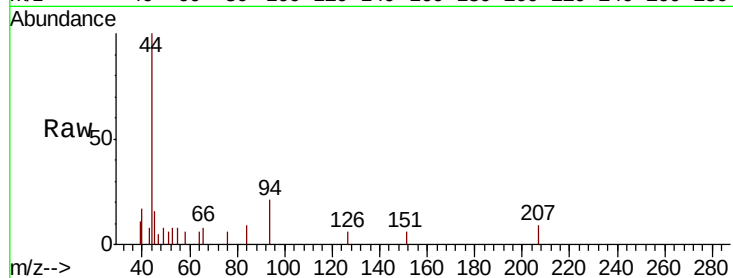
Tot Ion: 94 Resp: 394

Ion Ratio Lower Upper

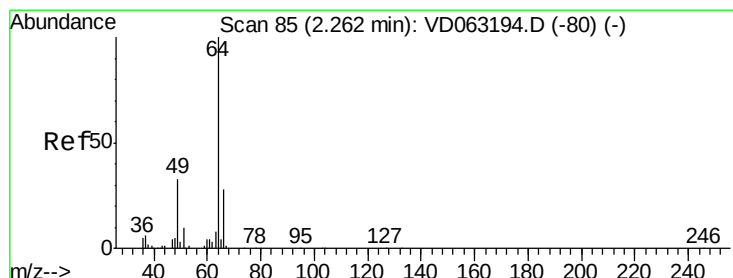
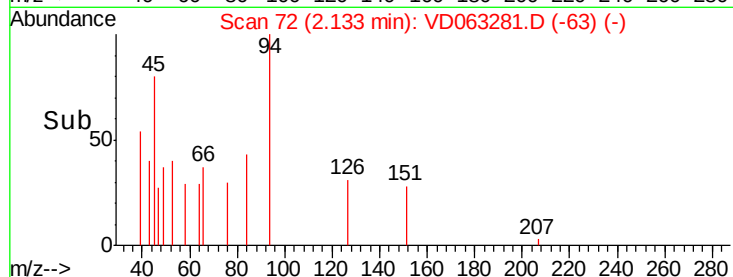
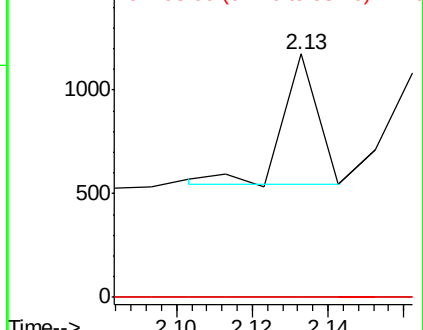
94 100

96 0.0 76.4 114.6#

93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 1.625 ug/l

RT: 2.29 min Scan# 88

Delta R.T. 0.03 min

Lab File: VD063281.D

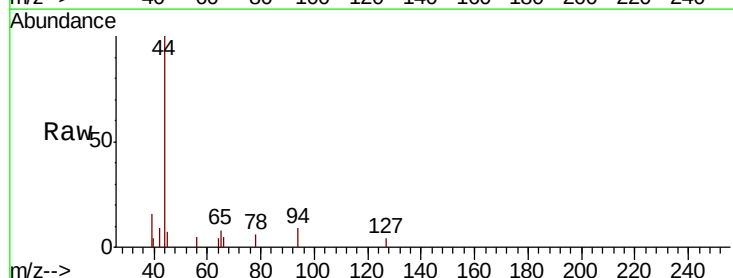
Acq: 31 Jul 2019 16:15

Tgt Ion: 64 Resp: 194

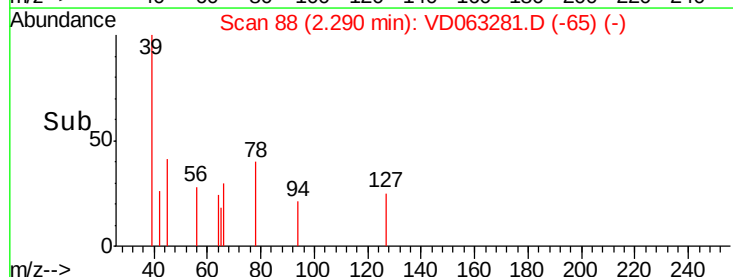
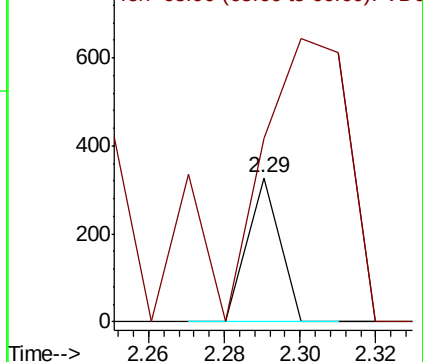
Ion Ratio Lower Upper

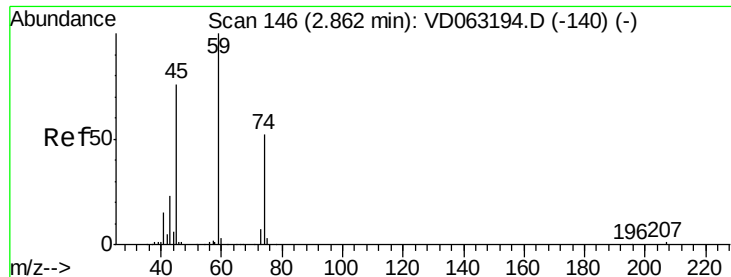
64 100

66 126.8 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 3.320 ug/l

RT: 2.70 min Scan# 130

Delta R.T. -0.16 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

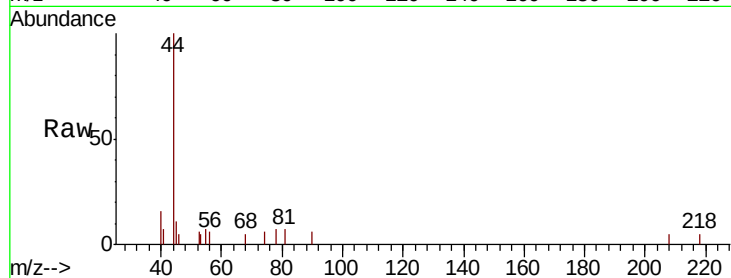
ClientSampled :

Tot Ion: 74 Resp: 233

Ion Ratio Lower Upper

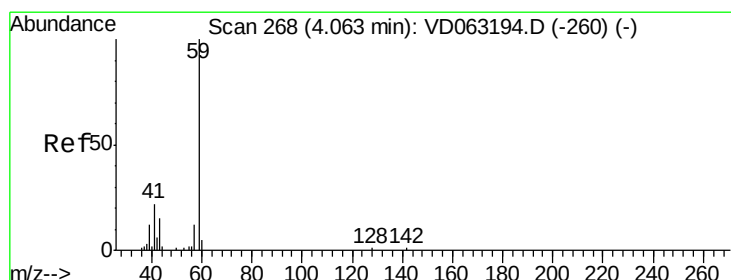
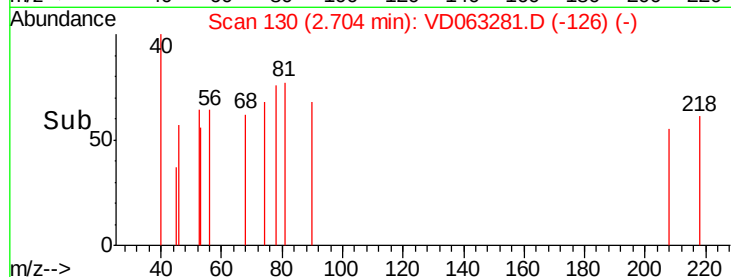
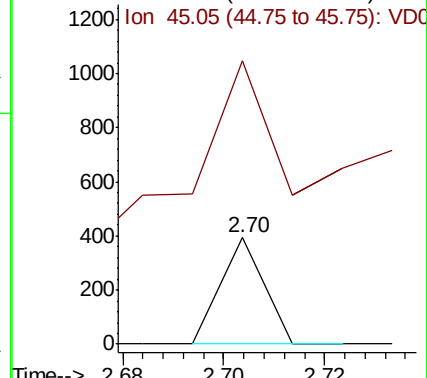
74 100

45 265.5 73.6 220.8#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 14.136 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.02 min

Lab File: VD063281.D

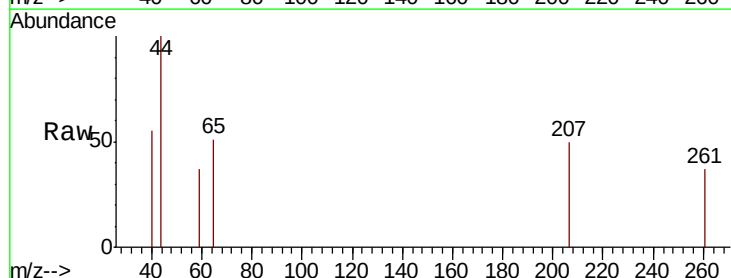
Acq: 31 Jul 2019 16:15

Tgt Ion: 59 Resp: 181

Ion Ratio Lower Upper

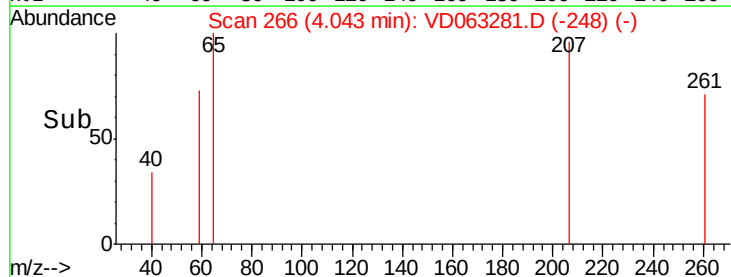
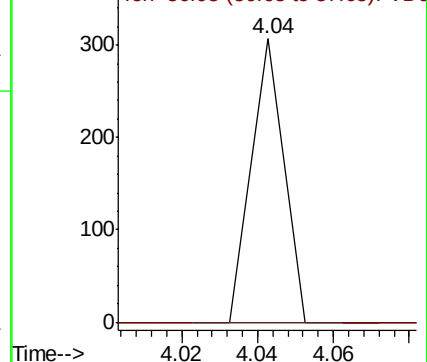
59 100

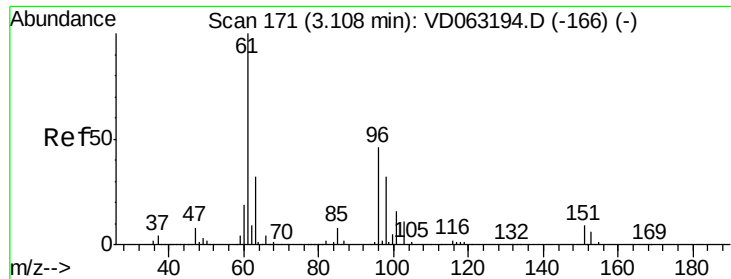
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

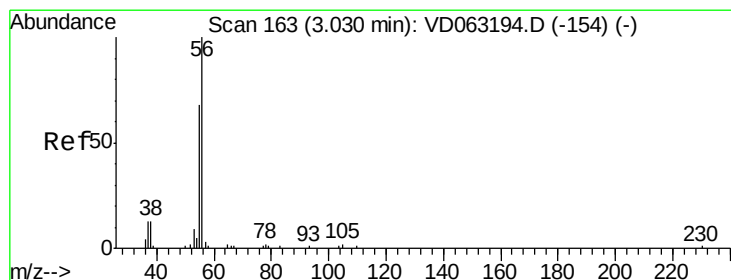
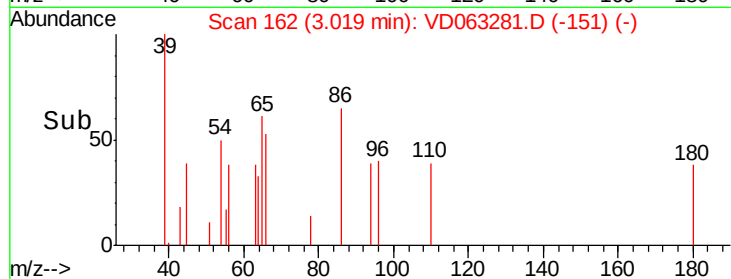
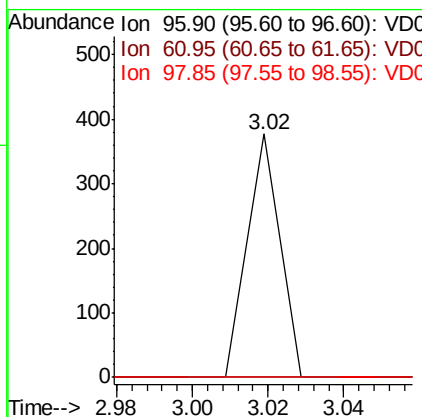
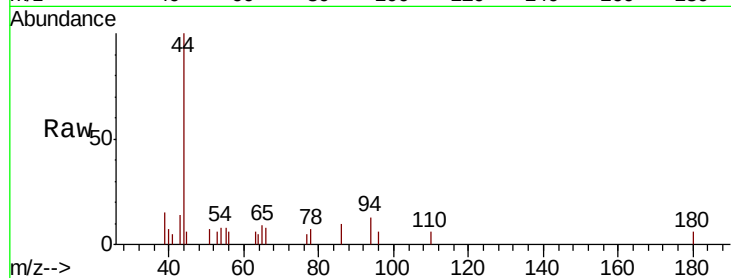




#12
 1,1-Dichloroethene
 Concen: 1.093 ug/l
 RT: 3.02 min Scan# 162
 Delta R.T. -0.09 min
 Lab File: VD063281.D
 Acq: 31 Jul 2019 16:15

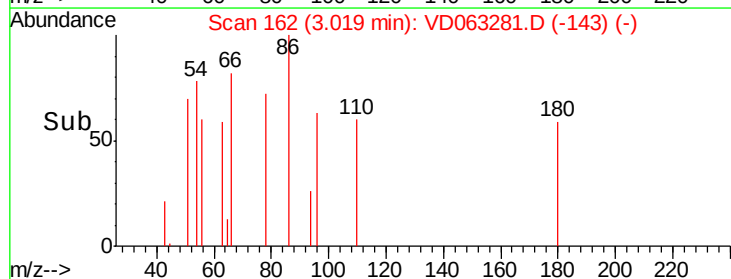
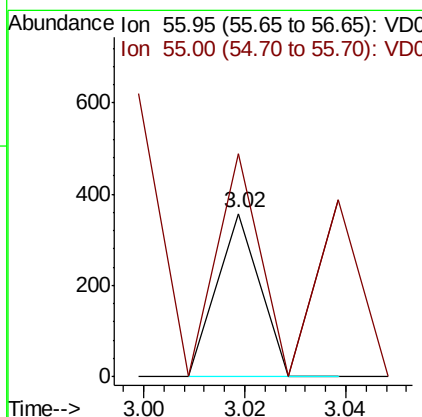
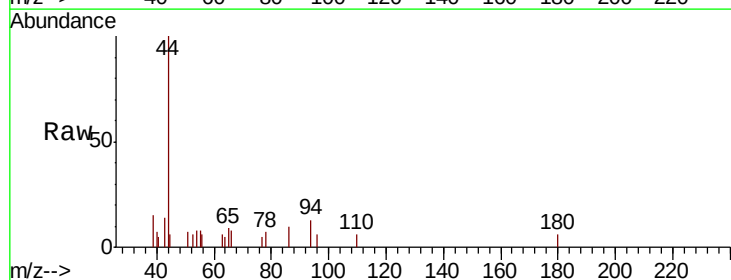
Instrument :
 MSVOA_D
 ClientSampleID :

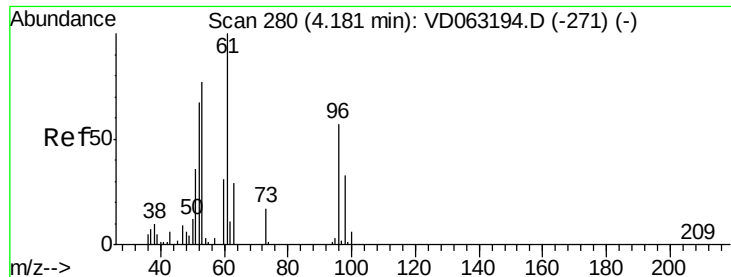
Tot Ion: 96 Resp: 223
 Ion Ratio Lower Upper
 96 100
 61 0.0 173.7 260.5#
 98 0.0 55.8 83.8#



#13
 Acrolein
 Concen: 17.123 ug/l
 RT: 3.02 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VD063281.D
 Acq: 31 Jul 2019 16:15

Tgt Ion: 56 Resp: 211
 Ion Ratio Lower Upper
 56 100
 55 136.3 55.3 82.9#





#15

Acrylonitrile

Concen: 6.838 ug/l

RT: 4.11 min Scan# 273

Delta R.T. -0.07 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

ClientSampled :

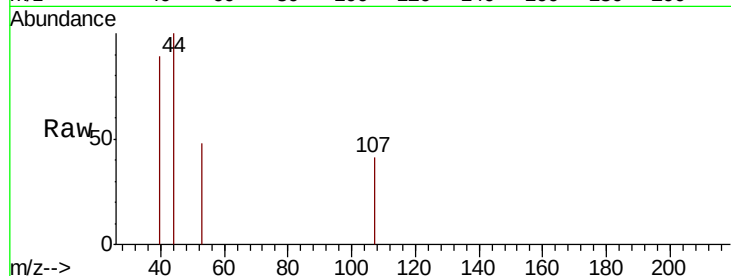
Tot Ion: 53 Resp: 227

Ion Ratio Lower Upper

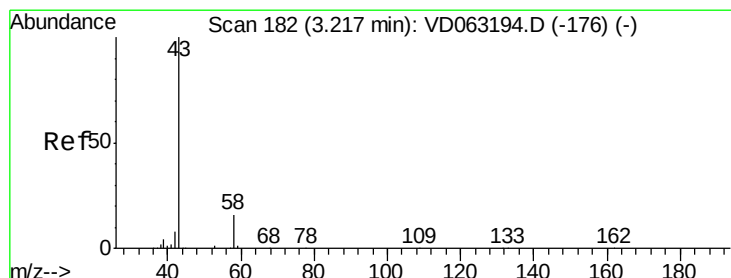
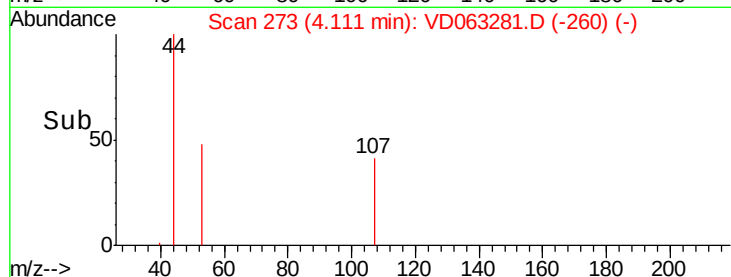
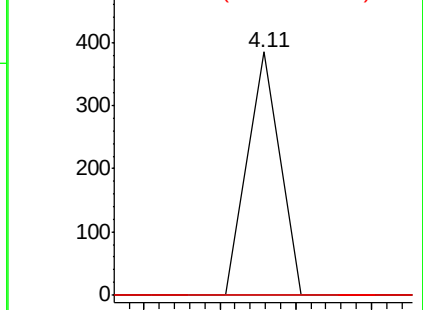
53 100

52 0.0 69.7 104.5#

51 0.0 37.4 56.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 39.157 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD063281.D

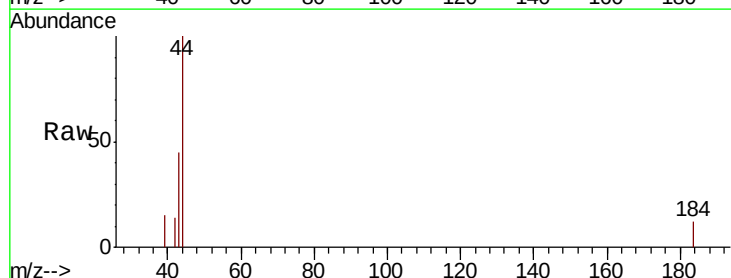
Acq: 31 Jul 2019 16:15

Tgt Ion: 43 Resp: 2226

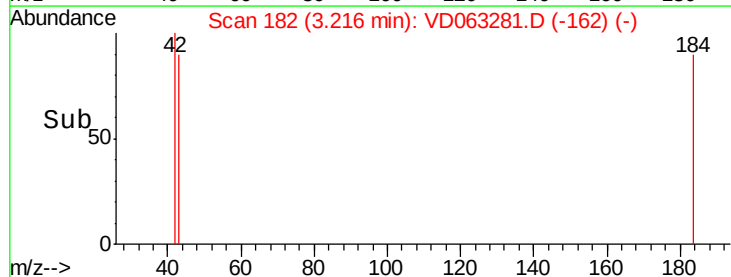
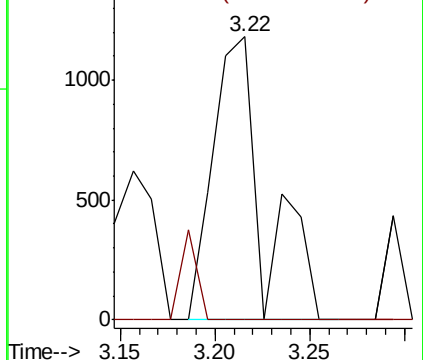
Ion Ratio Lower Upper

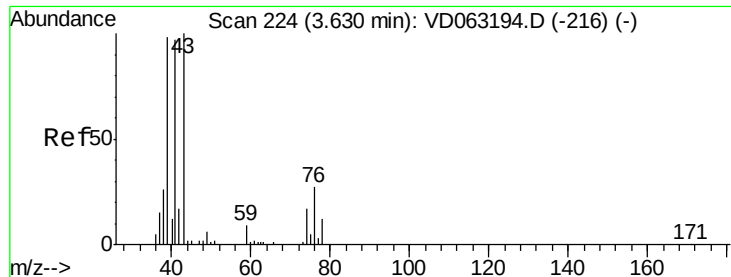
43 100

58 0.0 13.0 19.4#



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

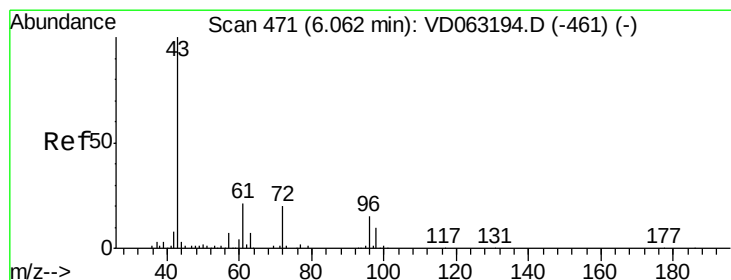
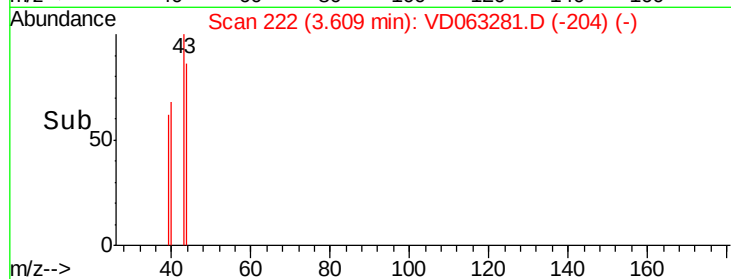
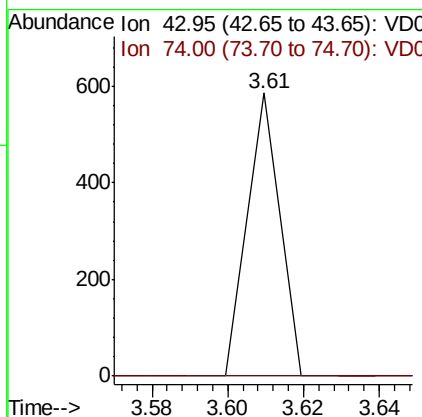
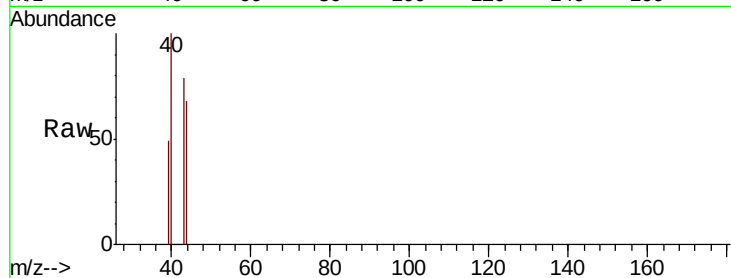




#18
Methyl Acetate
Concen: 3.169 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.02 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

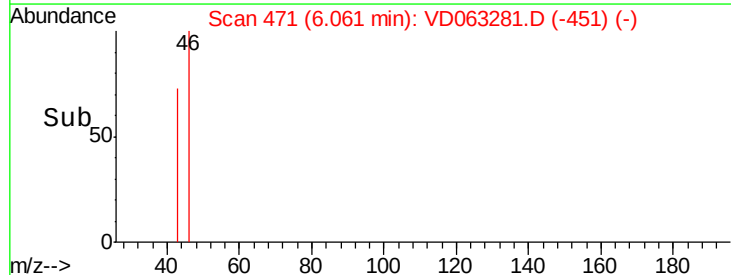
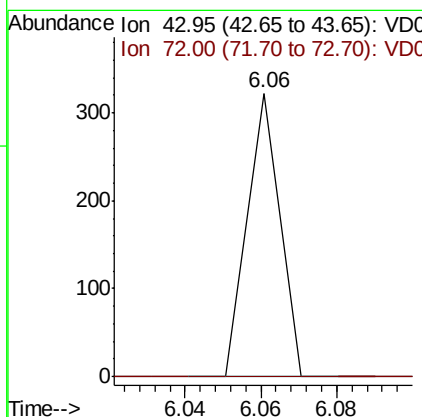
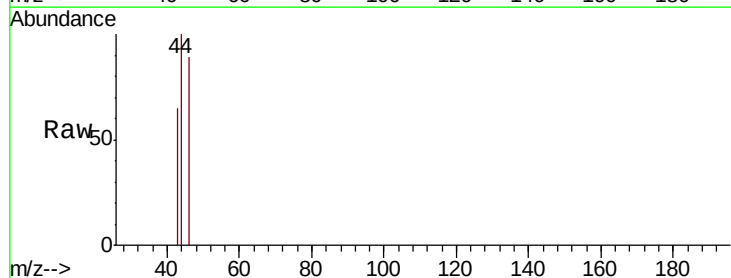
Instrument :
MSVOA_D
ClientSampled :

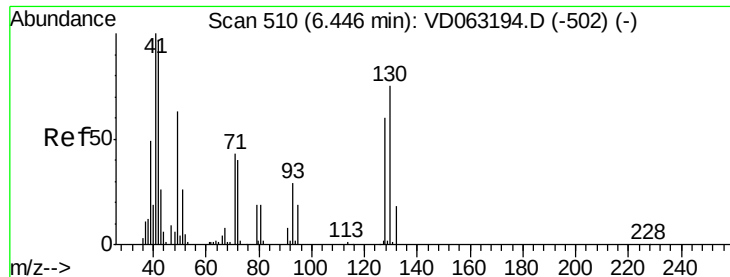
Tot Ion: 43 Resp: 346
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#25
2-Butanone
Concen: 3.330 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.00 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

Tgt Ion: 43 Resp: 190
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#





#29

Tetrahydrofuran

Concen: 8.737 ug/l

RT: 6.49 min Scan# 515

Delta R.T. 0.05 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

ClientSampled :

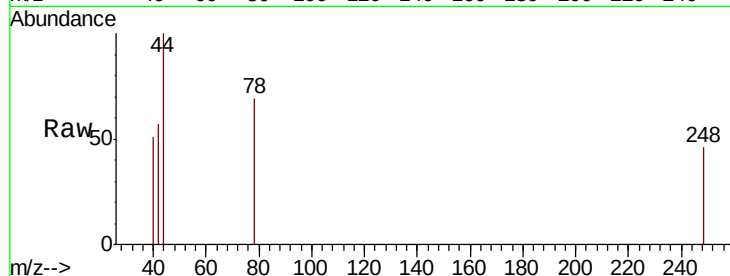
Tot Ion: 42 Resp: 236

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

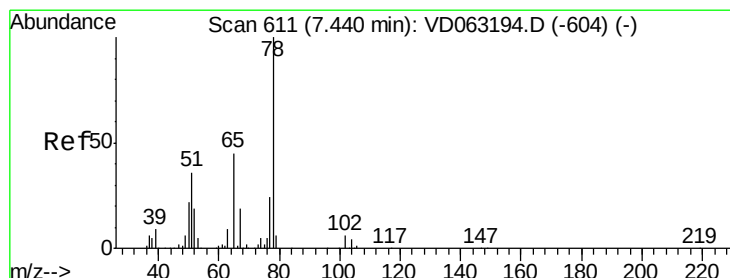
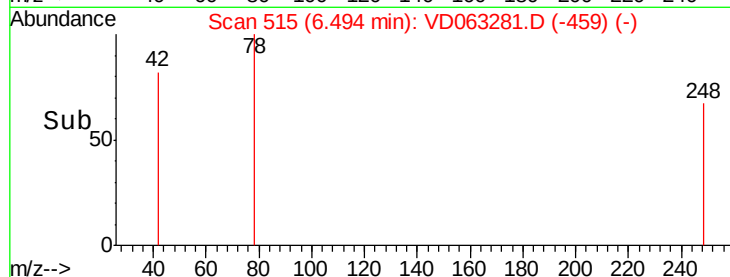
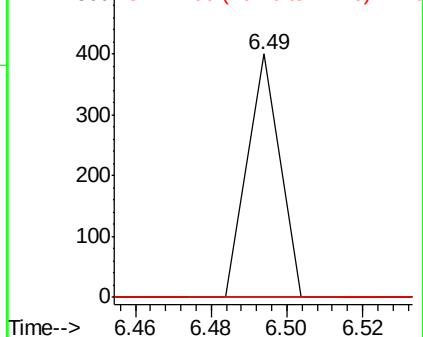
71 0.0 35.7 53.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 78.974 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD063281.D

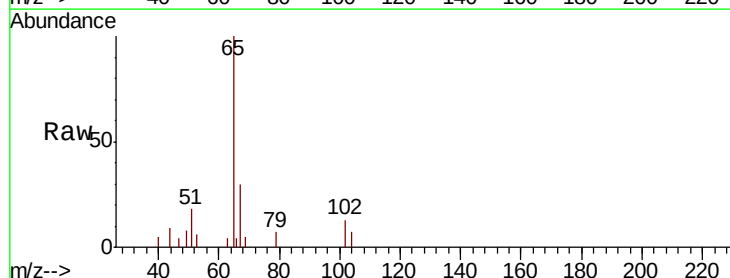
Acq: 31 Jul 2019 16:15

Tgt Ion: 65 Resp: 23042

Ion Ratio Lower Upper

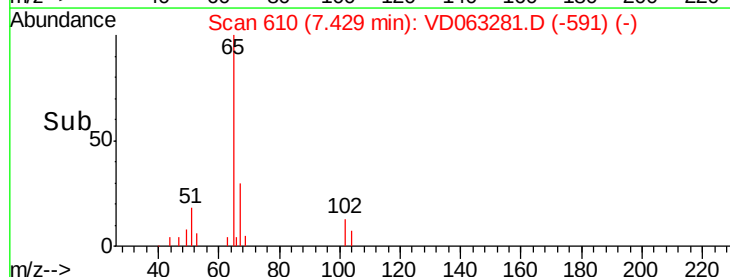
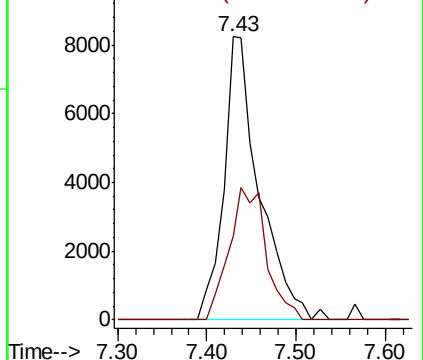
65 100

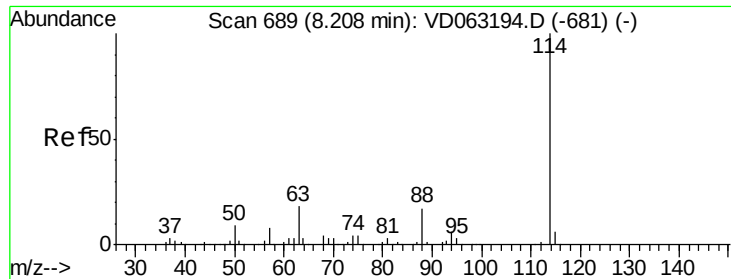
67 29.8 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

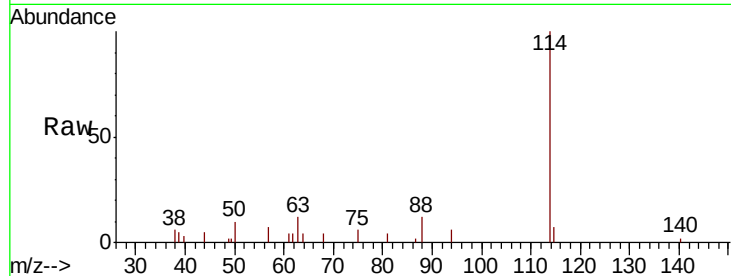




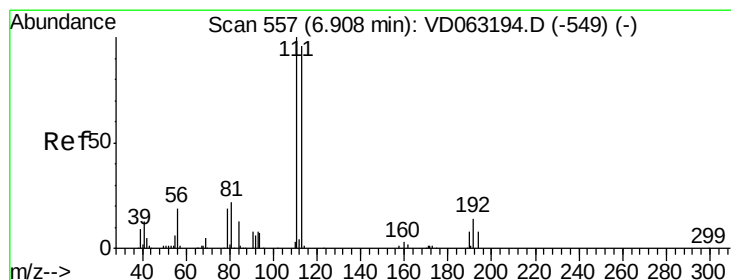
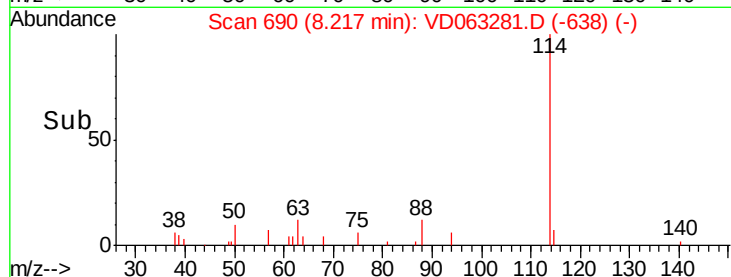
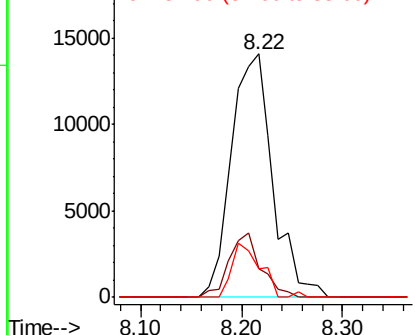
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063281.D
 Acq: 31 Jul 2019 16:15

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 40370
 Ion Ratio Lower Upper
 114 100
 63 11.6 0.0 35.2
 88 11.6 0.0 34.6

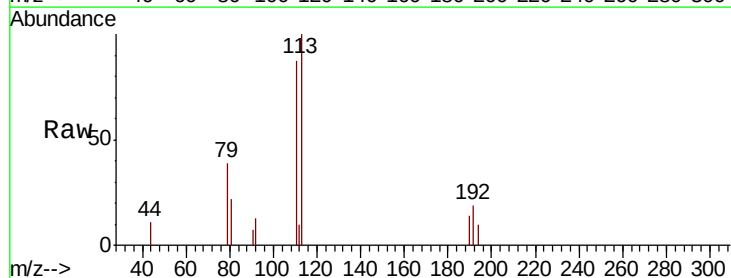


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

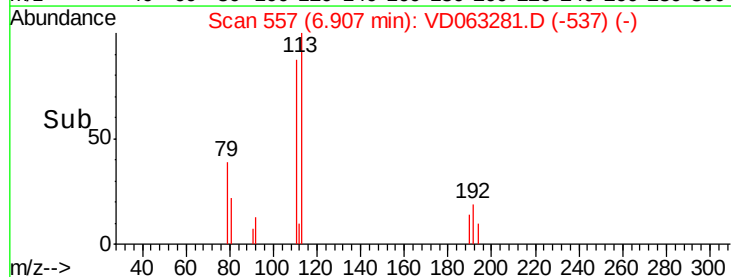
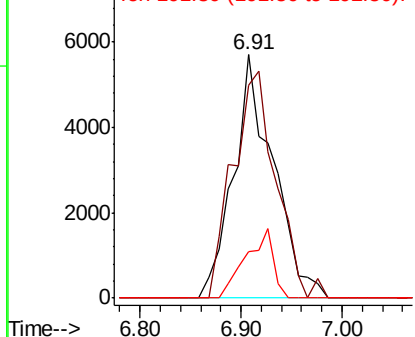


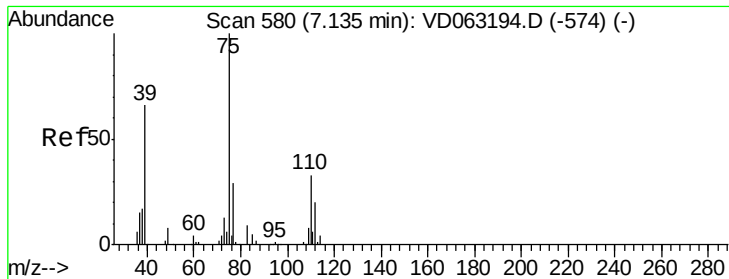
#35
 Dibromofluoromethane
 Concen: 45.228 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.00 min
 Lab File: VD063281.D
 Acq: 31 Jul 2019 16:15

Tgt Ion:113 Resp: 15589
 Ion Ratio Lower Upper
 113 100
 111 87.5 83.2 124.8
 192 19.4 11.8 17.8#



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

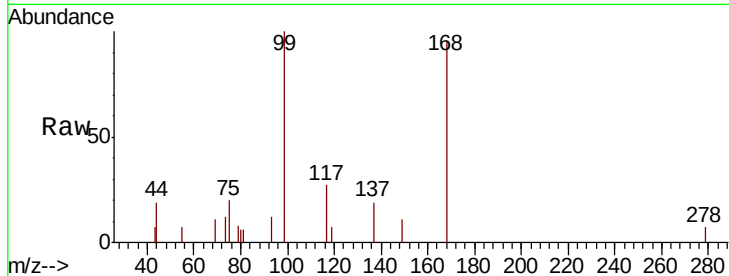




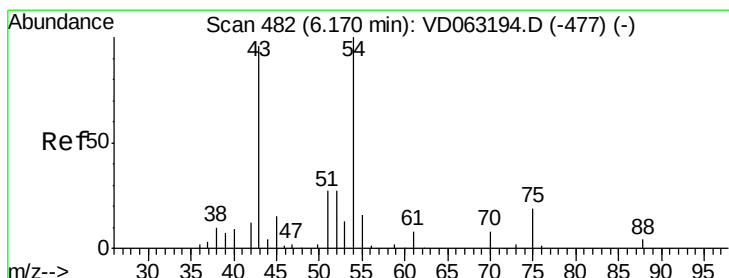
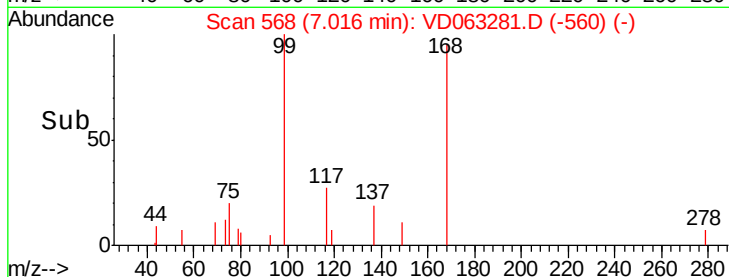
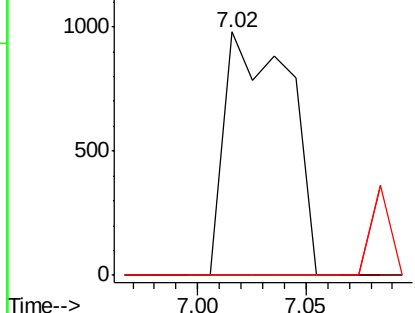
#36
 1,1-Dichloropropene
 Concen: 5.523 ug/l
 RT: 7.02 min Scan# 568
 Delta R.T. -0.12 min
 Lab File: VD063281.D
 Acq: 31 Jul 2019 16:15

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.1	48.2#
77	0.0	22.7	34.1#

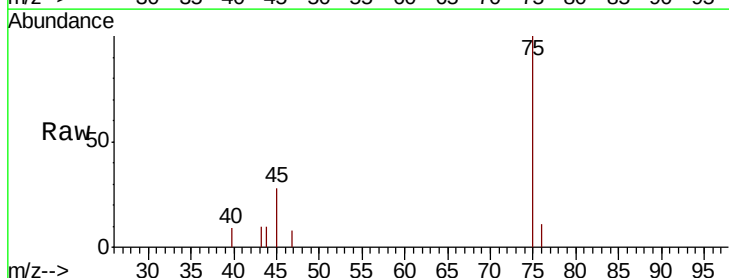


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

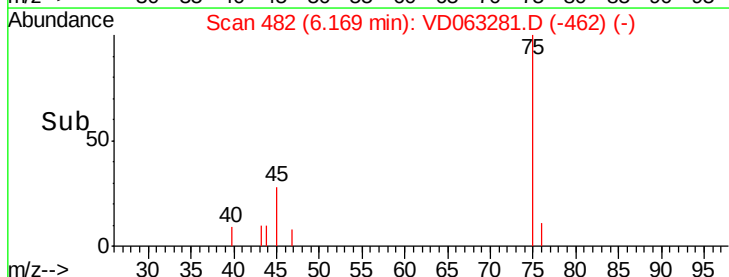
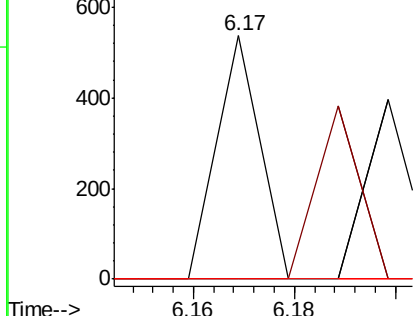


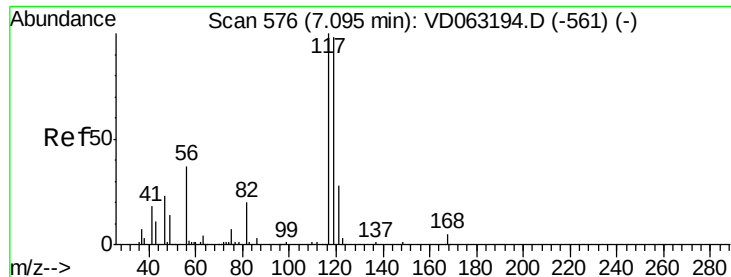
#37
 Ethyl Acetate
 Concen: 1.915 ug/l
 RT: 6.17 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: VD063281.D
 Acq: 31 Jul 2019 16:15

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	5.1	7.7#



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





#38

Carbon Tetrachloride

Concen: 5.423 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.08 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

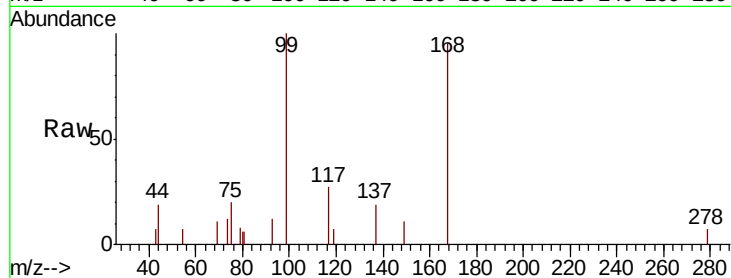
Tot Ion:117 Resp: 3008

Ion Ratio Lower Upper

117 100

119 26.1 78.2 117.2#

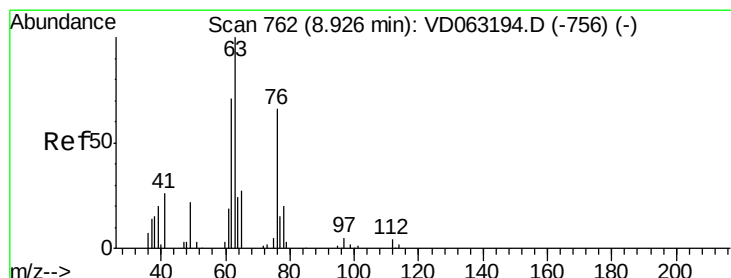
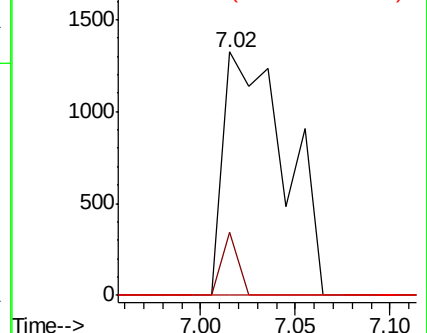
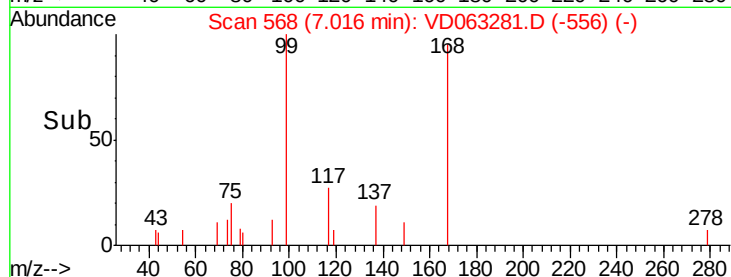
121 0.0 22.1 33.1#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#45

1,2-Dichloropropane

Concen: 1.172 ug/l

RT: 8.81 min Scan# 750

Delta R.T. -0.12 min

Lab File: VD063281.D

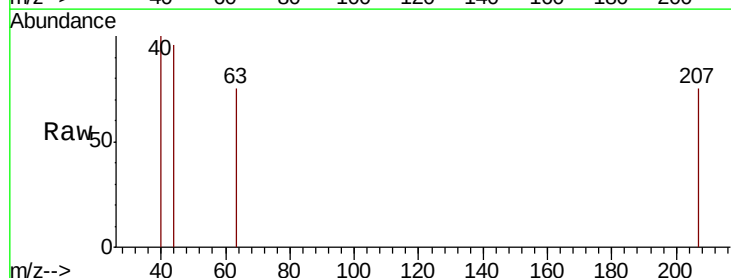
Acq: 31 Jul 2019 16:15

Tgt Ion: 63 Resp: 230

Ion Ratio Lower Upper

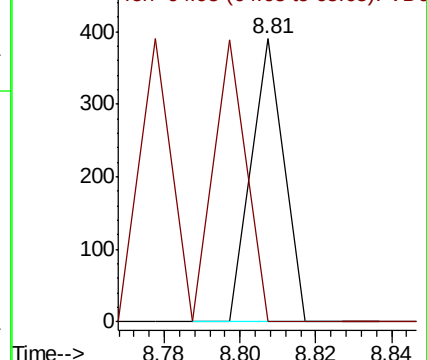
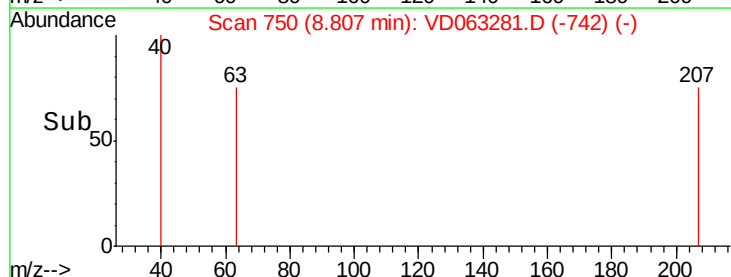
63 100

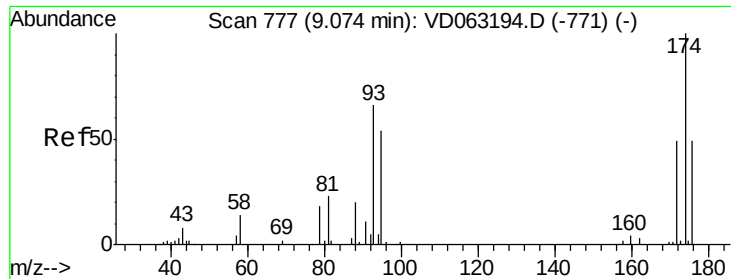
65 0.0 23.6 35.4#



Abundance Ion 62.95 (62.65 to 63.65): V

Ion 64.95 (64.65 to 65.65): V

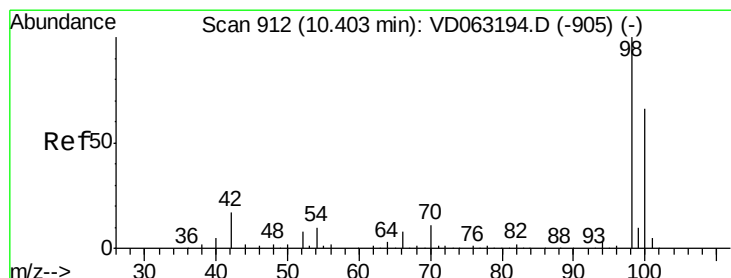
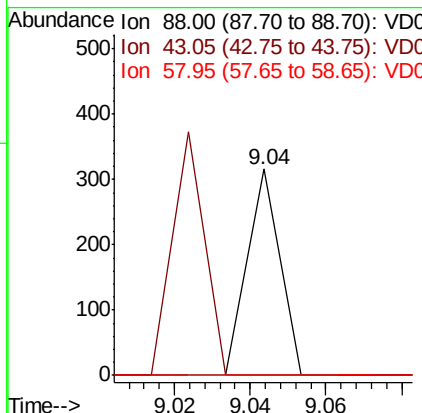
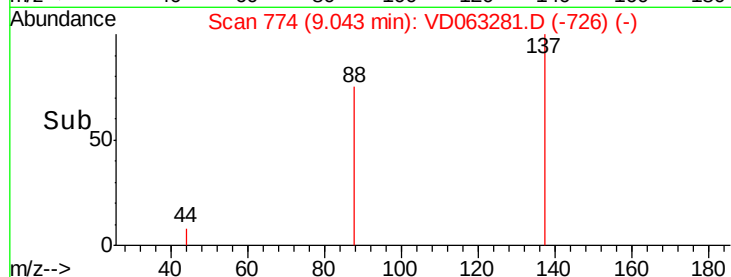
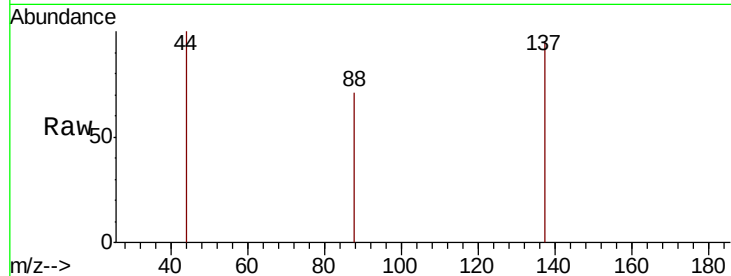




#49
1,4-Dioxane
Concen: 157.513 ug/l
RT: 9.04 min Scan# 774
Delta R.T. -0.03 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

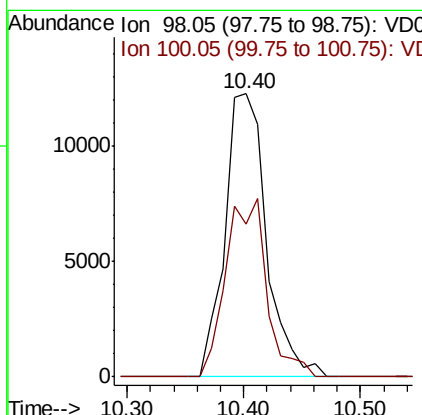
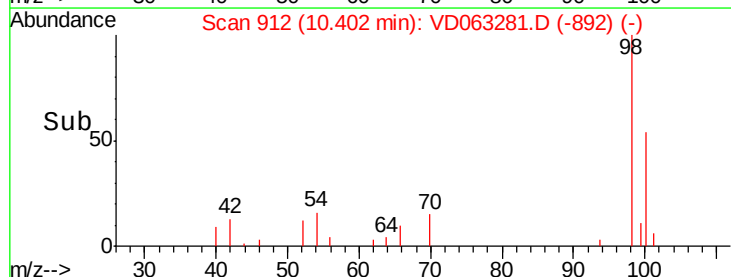
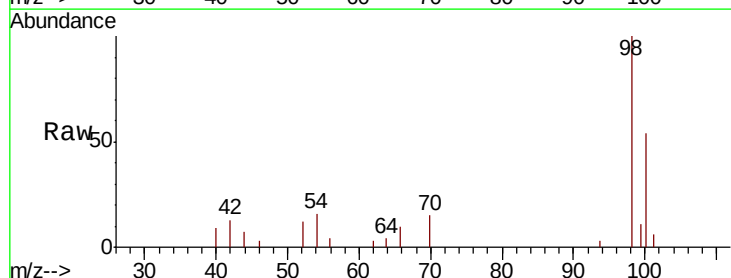
Instrument :
MSVOA_D
ClientSampleID :

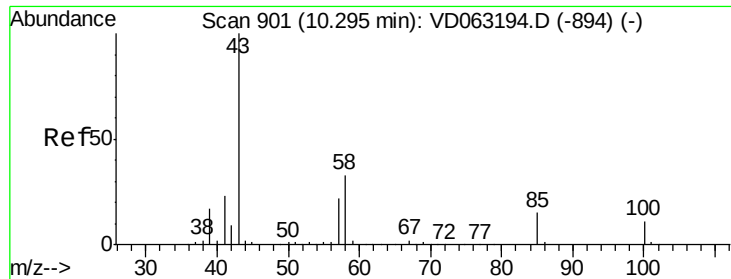
Tot Ion: 88 Resp: 187
Ion Ratio Lower Upper
88 100
43 0.0 30.7 46.1#
58 0.0 56.5 84.7#



#50
Toluene-d8
Concen: 39.251 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

Tgt Ion: 98 Resp: 30277
Ion Ratio Lower Upper
98 100
100 53.9 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 4.047 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

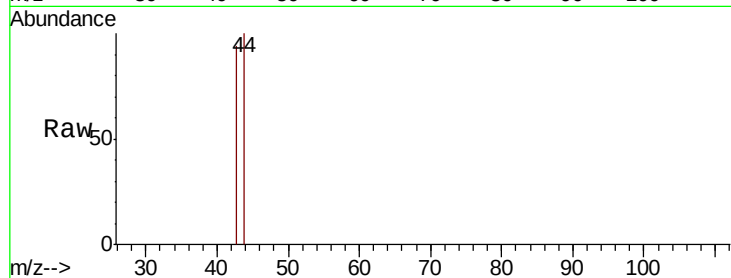
ClientSampleId :

Tot Ion: 43 Resp: 582

Ion Ratio Lower Upper

43 100

58 0.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

400

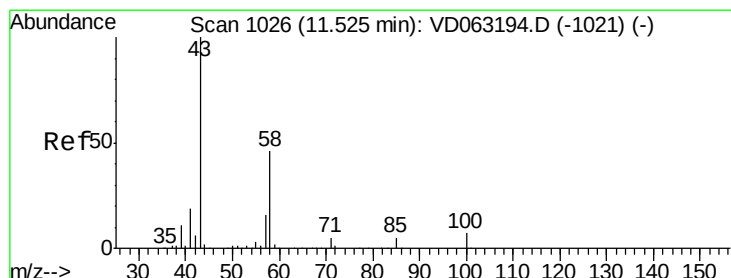
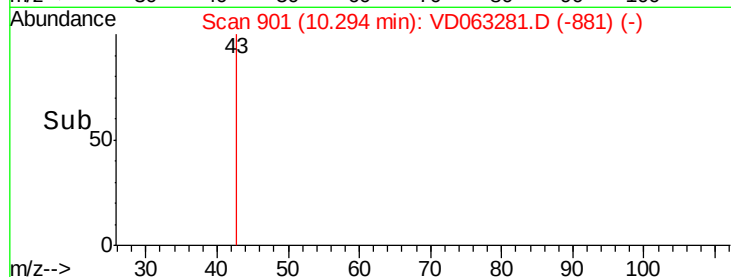
300

200

100

0

Time-->



#59

2-Hexanone

Concen: 1.940 ug/l

RT: 11.52 min Scan# 1026

Delta R.T. -0.00 min

Lab File: VD063281.D

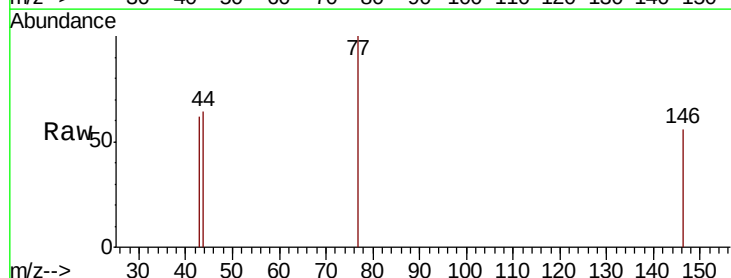
Acq: 31 Jul 2019 16:15

Tgt Ion: 43 Resp: 201

Ion Ratio Lower Upper

43 100

58 0.0 22.9 68.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

11.52

400

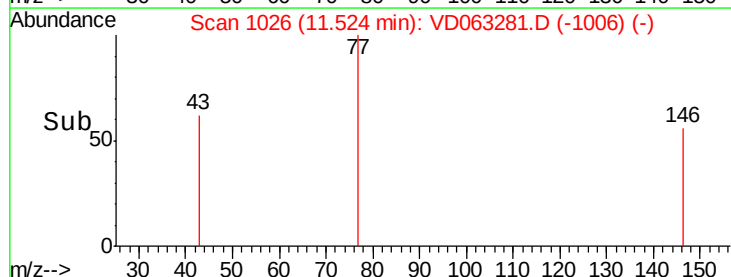
300

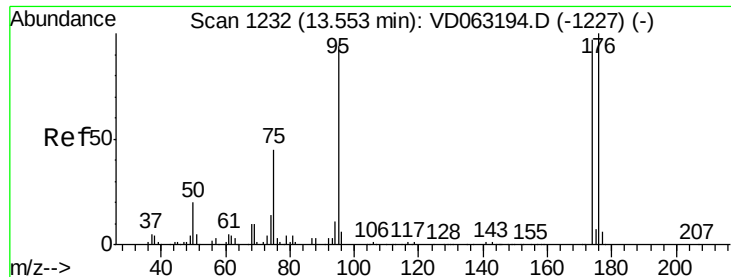
200

100

0

Time-->

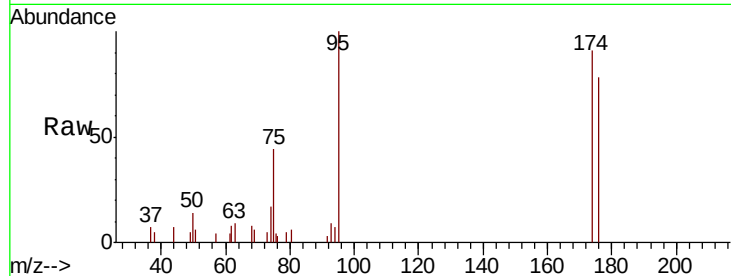




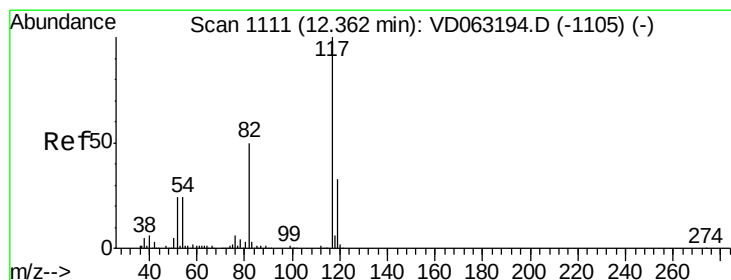
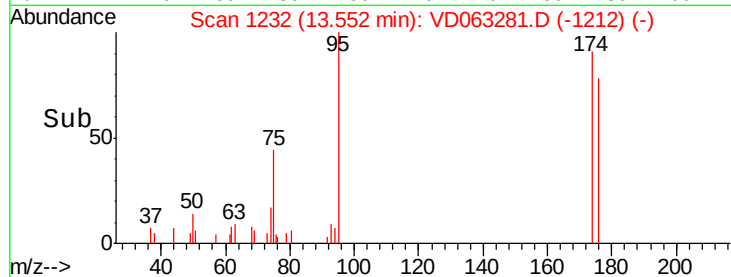
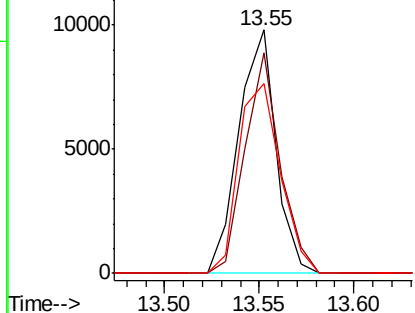
#62
4-Bromofluorobenzene
Concen: 37.700 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 95 Resp: 13252
Ion Ratio Lower Upper
95 100
174 90.7 0.0 205.4
176 78.1 0.0 211.8

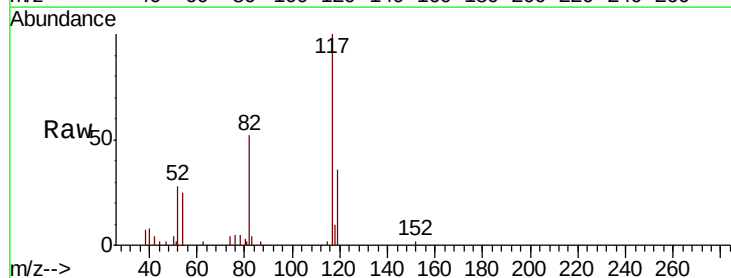


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

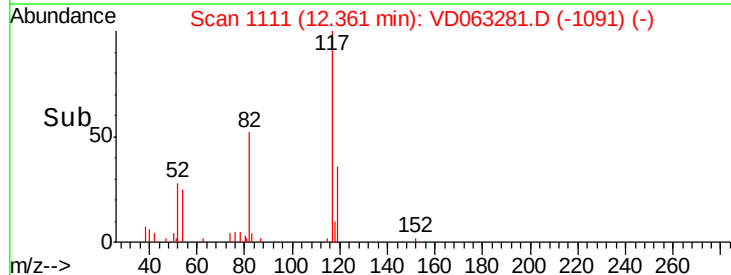
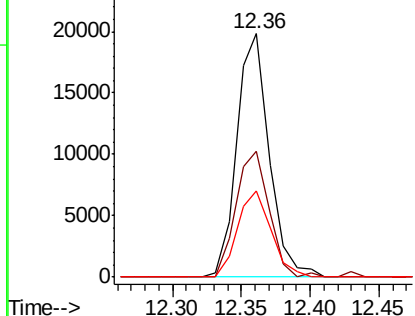


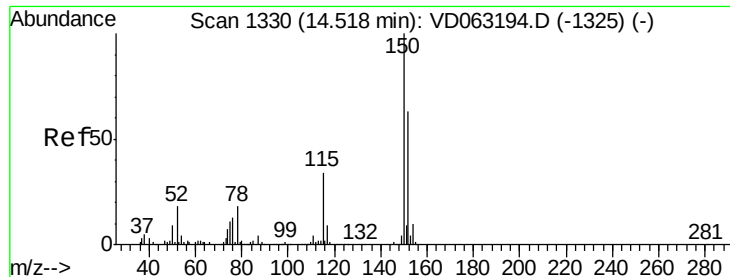
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

Tgt Ion: 117 Resp: 32526
Ion Ratio Lower Upper
117 100
82 51.5 40.1 60.1
119 35.5 26.5 39.7



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



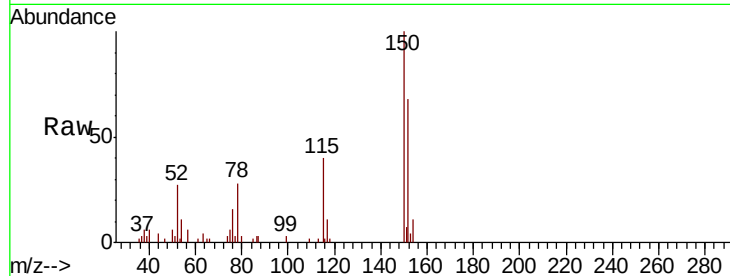


#72

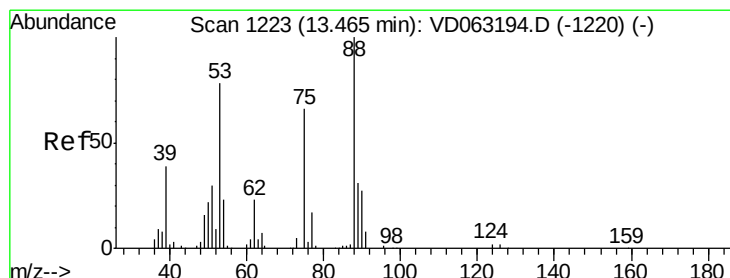
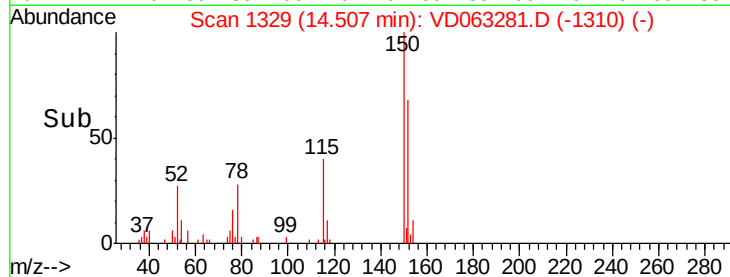
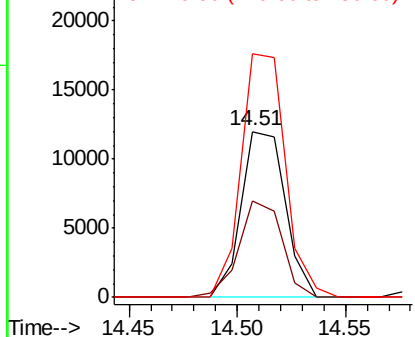
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 17131
Ion Ratio Lower Upper
152 100
115 58.4 27.5 82.4
150 146.8 0.0 320.6



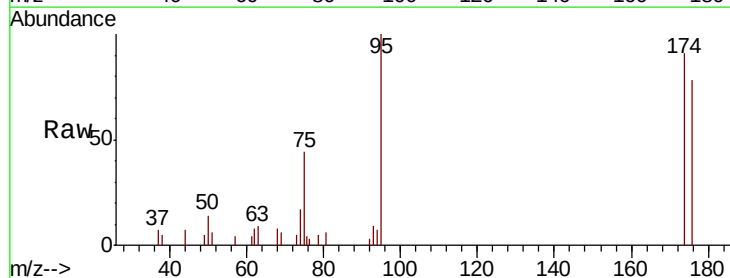
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



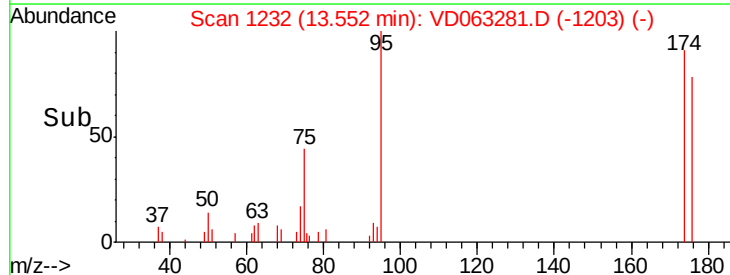
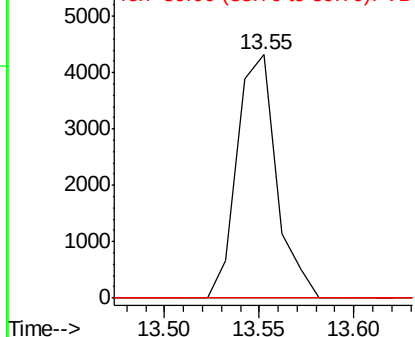
#81

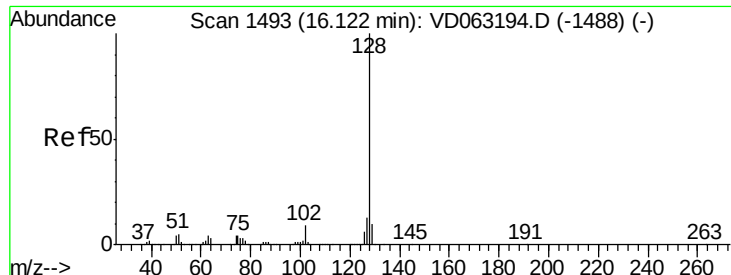
trans-1,4-Dichloro-2-butene
Concen: 108.791 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.09 min
Lab File: VD063281.D
Acq: 31 Jul 2019 16:15

Tgt Ion: 75 Resp: 6216
Ion Ratio Lower Upper
75 100
53 0.0 94.9 142.3#
89 0.0 37.4 56.0#



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: 1.957 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

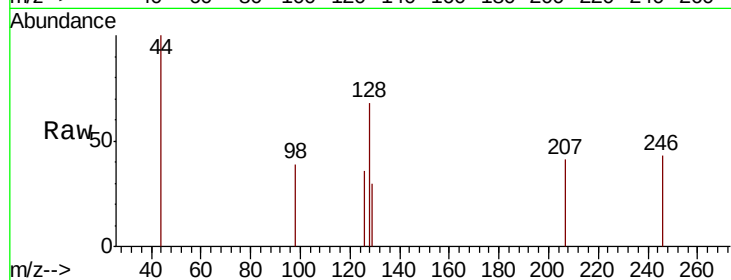
Lab File: VD063281.D

Acq: 31 Jul 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :



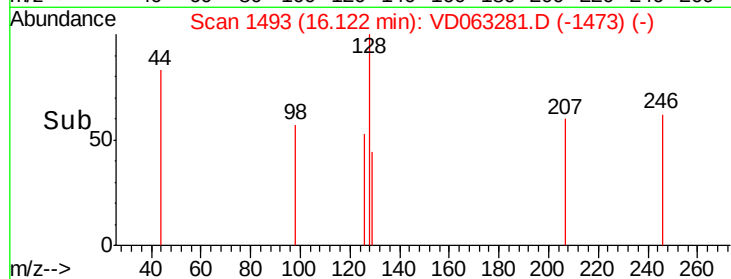
Tot Ion:128 Resp: 1037

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 43.6 7.8 11.8#



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

