

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103019\
 Data File : VD064122.D
 Acq On : 30 Oct 2019 19:50
 Operator : VA/SY
 Sample : K5603-02
 Misc : 5.05G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 31 04:05:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 08:00:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	180242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	304770	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	299199	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	128794	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	87336	60.93	ug/l	0.00
Spiked Amount			Recovery	=	121.86%	
35) Dibromofluoromethane	7.92	113	47928	25.56	ug/l	0.00
Spiked Amount			Recovery	=	51.12%	
50) Toluene-d8	10.34	98	364334	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.64	95	118252	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	

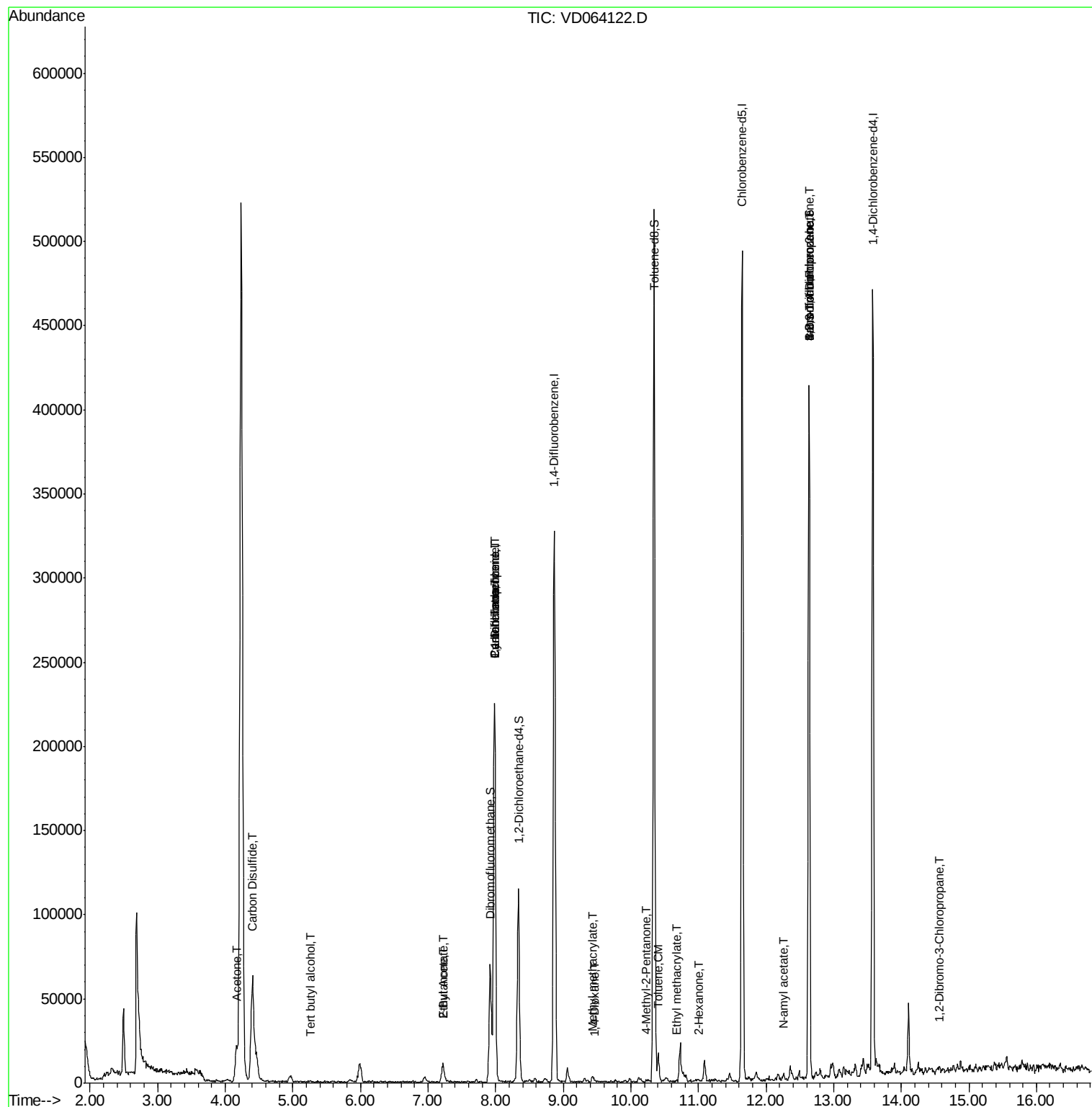
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	231	8.922	ug/l #	71
16) Acetone	4.17	43	39365	144.328	ug/l	89
17) Carbon Disulfide	4.40	76	134494	27.992	ug/l #	94
20) Methylene Chloride	4.97	84	3003	Below Cal	#	71
25) 2-Butanone	7.22	43	8058	21.371	ug/l #	77
31) Cyclohexane	7.98	56	3658	1.372	ug/l #	60
36) 1,1-Dichloropropene	7.98	75	12366	4.330	ug/l #	52
37) Ethyl Acetate	7.22	43	8058	9.167	ug/l #	72
38) Carbon Tetrachloride	7.98	117	16894	5.422	ug/l #	20
48) Methyl methacrylate	9.43	41	1128	1.373	ug/l #	31
49) 1,4-Dioxane	9.47	88	57	4.581	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	1409	1.457	ug/l #	51
52) Toluene	10.41	92	5781	1.059	ug/l	97
56) Ethyl methacrylate	10.68	69	76	3.057	ug/l #	1
59) 2-Hexanone	11.00	43	840	10.082	ug/l	77
71) Bromoform	12.64	173	1499	1.213	ug/l #	1
74) N-amyl acetate	12.26	43	2175	1.463	ug/l #	49
76) 1,2,3-Trichloropropane	12.64	75	63835	73.762	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	63835	150.640	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.56	75	422	2.048	ug/l #	1

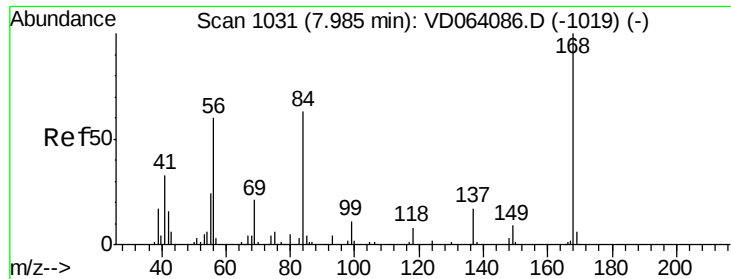
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 30 08:00:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

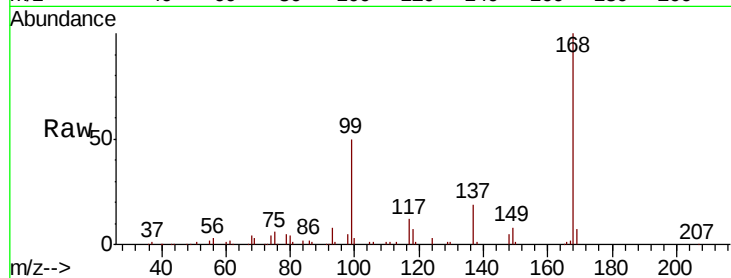
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 180242

Ion Ratio Lower Upper

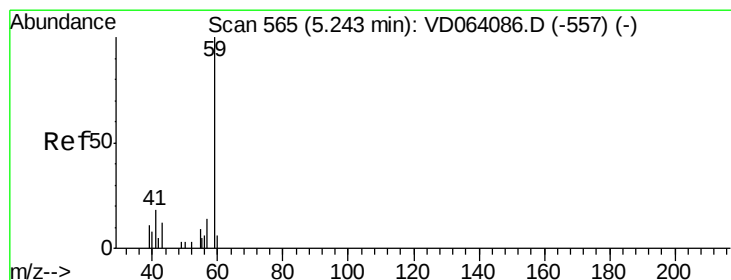
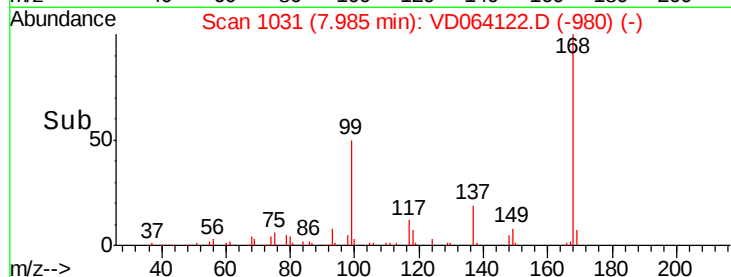
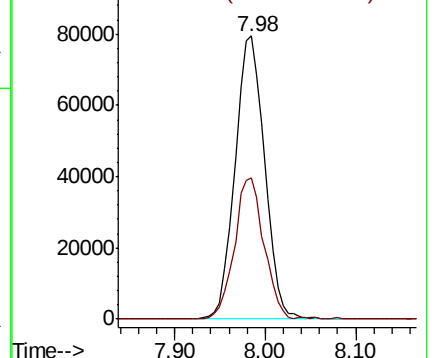
168 100

99 49.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 8.922 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.01 min

Lab File: VD064122.D

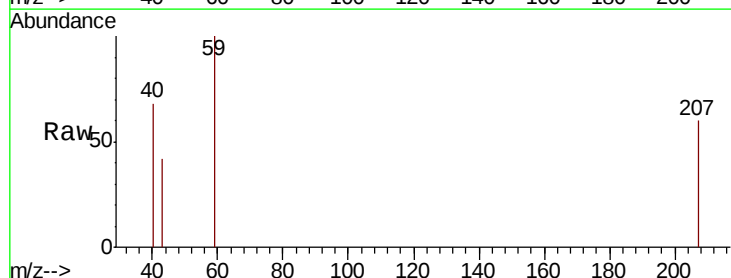
Acq: 30 Oct 2019 19:50

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

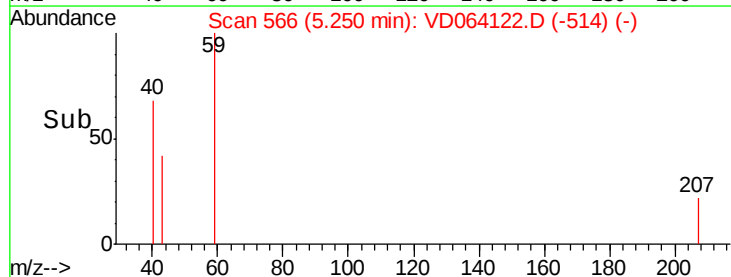
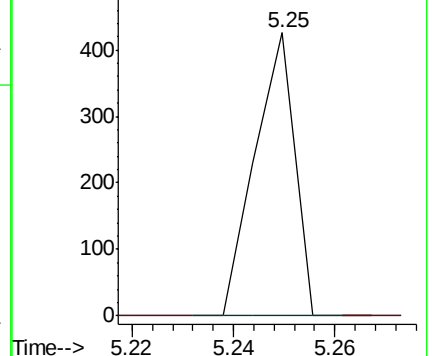
59 100

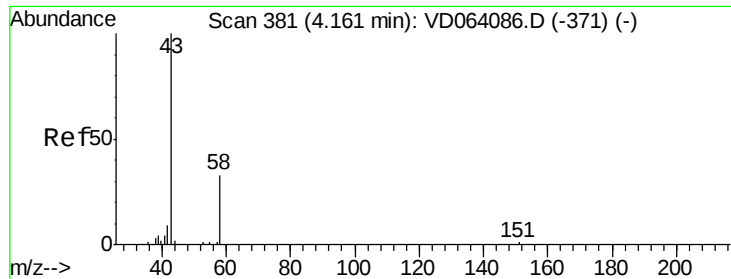
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 144.328 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

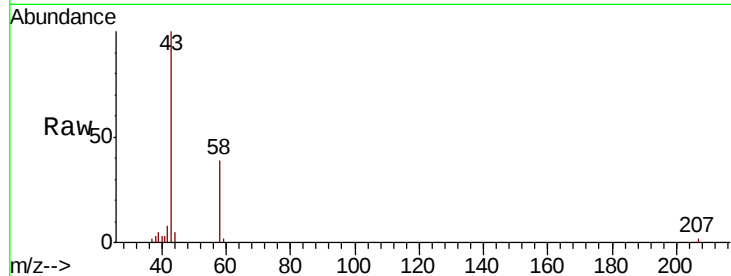
ClientSampled :

Tot Ion: 43 Resp: 39365

Ion Ratio Lower Upper

43 100

58 39.2 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

15000

10000

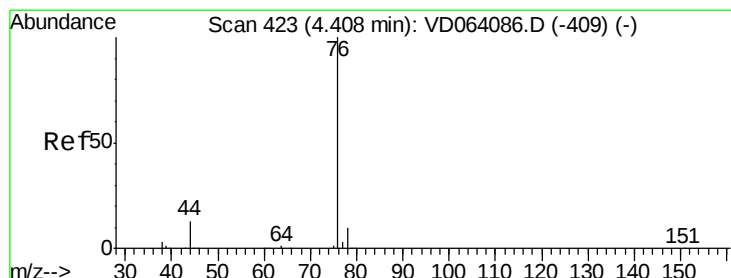
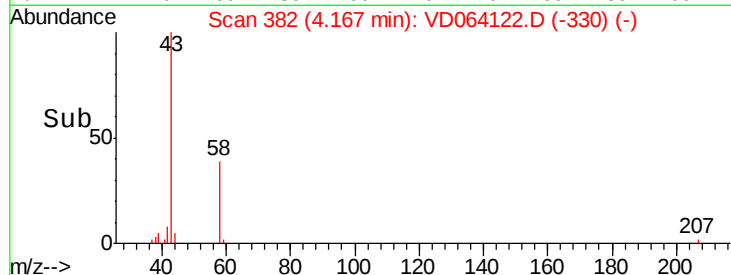
5000

0

4.10 4.20 4.30

4.17

Time-->



#17

Carbon Disulfide

Concen: 27.992 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.01 min

Lab File: VD064122.D

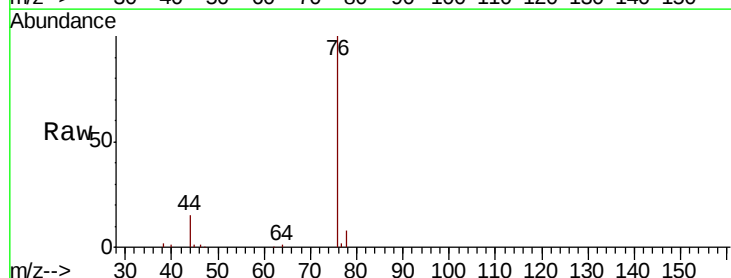
Acq: 30 Oct 2019 19:50

Tgt Ion: 76 Resp: 134494

Ion Ratio Lower Upper

76 100

78 7.9 8.1 12.1#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

50000

40000

30000

20000

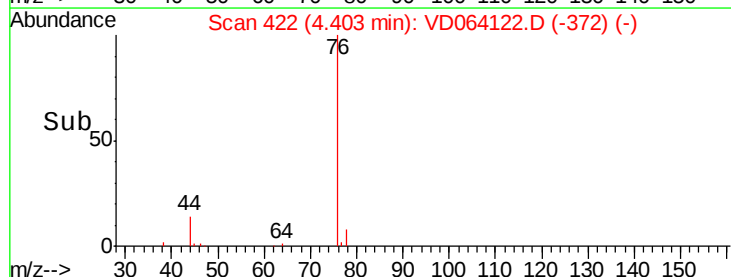
10000

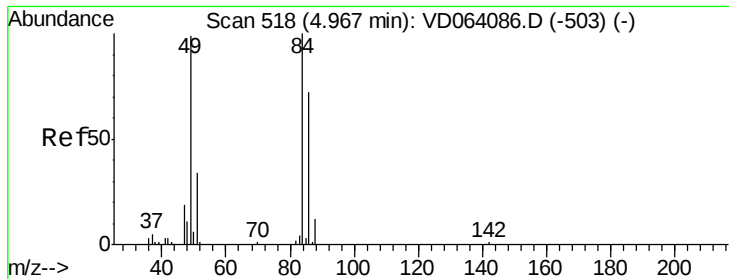
0

4.30 4.40 4.50

4.40

Time-->

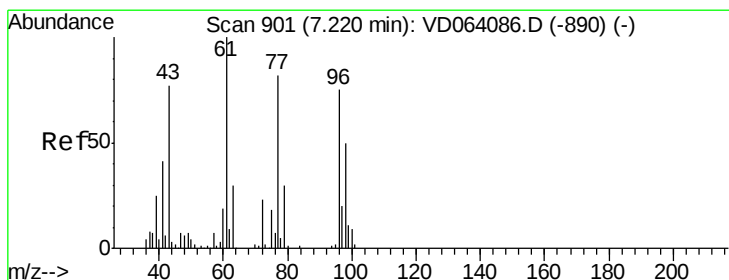
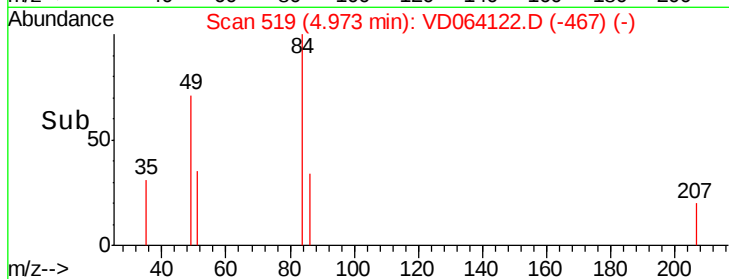
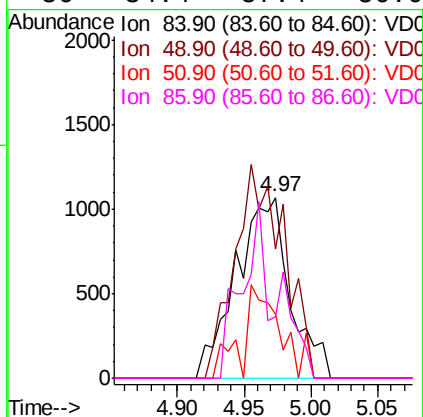
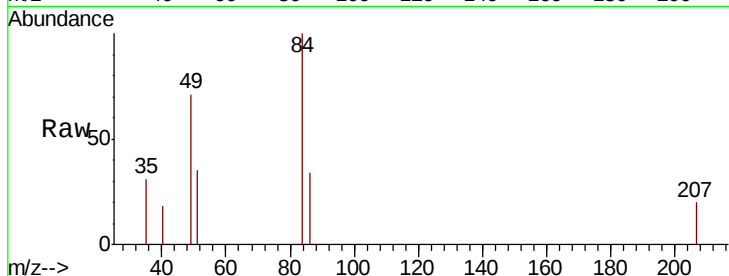




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD064122.D
Acq: 30 Oct 2019 19:50

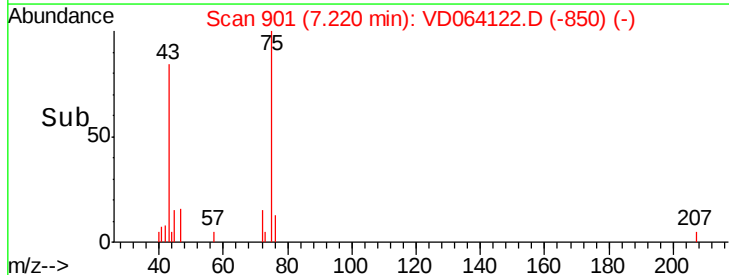
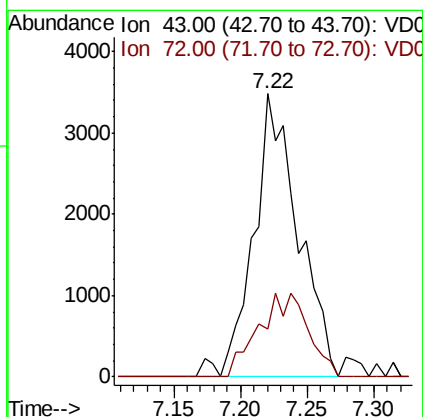
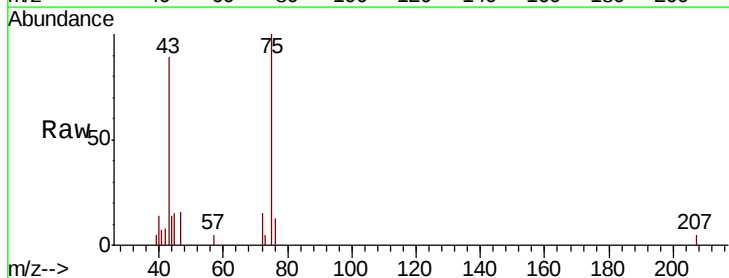
Instrument :
MSVOA_D
ClientSampleId :

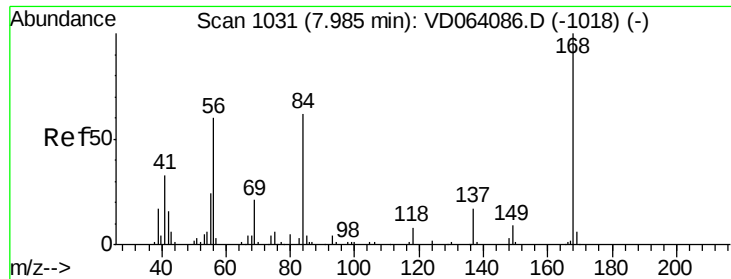
Tot Ion: 84 Resp: 3003
Ion Ratio Lower Upper
84 100
49 71.4 79.4 119.0#
51 35.2 27.4 41.2
86 34.4 57.4 86.0#



#25
2-Butanone
Concen: 21.371 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD064122.D
Acq: 30 Oct 2019 19:50

Tgt Ion: 43 Resp: 8058
Ion Ratio Lower Upper
43 100
72 16.8 23.4 35.0#

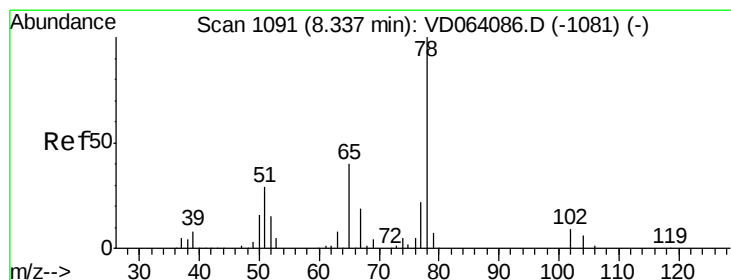
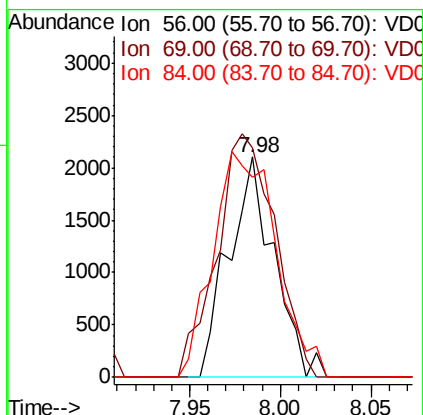
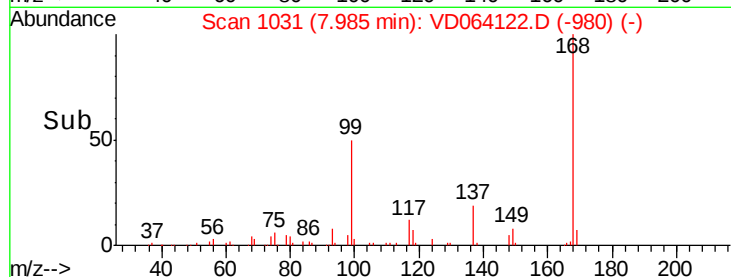
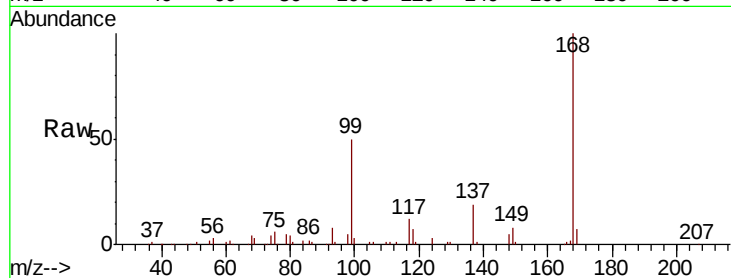




#31
Cyclohexane
Concen: 1.372 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064122.D
Acq: 30 Oct 2019 19:50

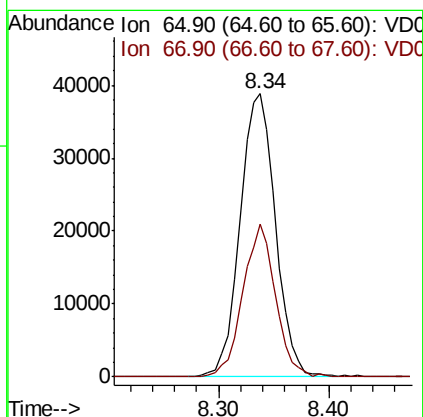
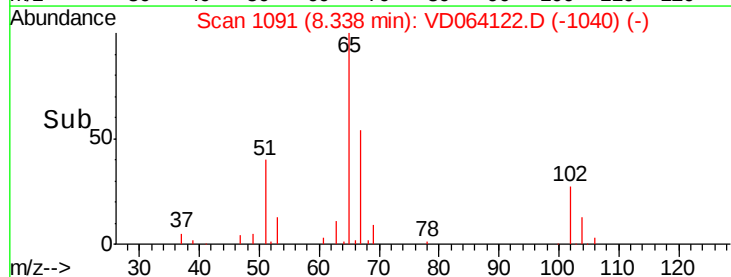
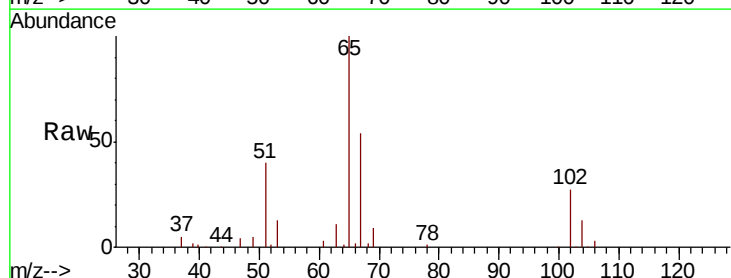
Instrument :
MSVOA_D
ClientSampleId :

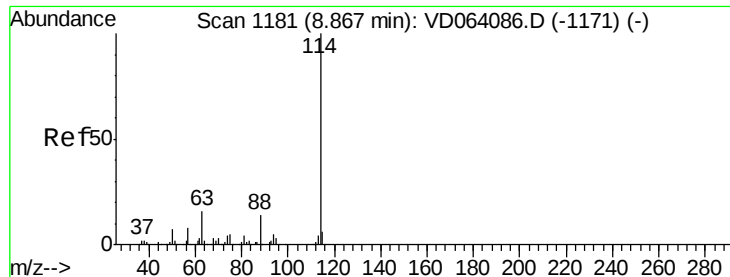
Tot Ion: 56 Resp: 3658
Ion Ratio Lower Upper
56 100
69 104.4 27.7 41.5#
84 91.0 83.1 124.7



#33
1,2-Dichloroethane-d4
Concen: 60.926 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064122.D
Acq: 30 Oct 2019 19:50

Tgt Ion: 65 Resp: 87336
Ion Ratio Lower Upper
65 100
67 49.8 0.0 104.6

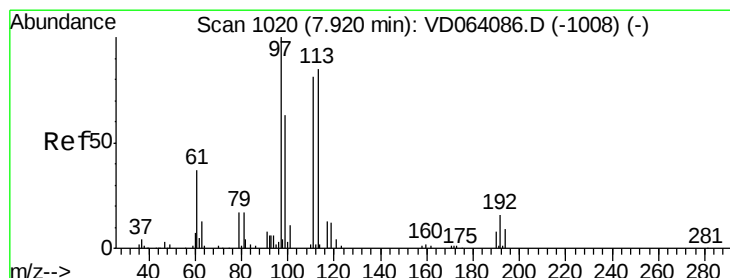
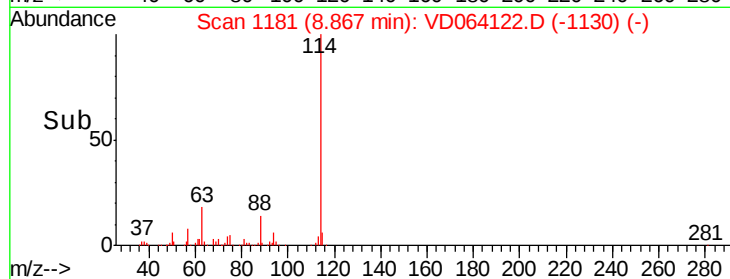
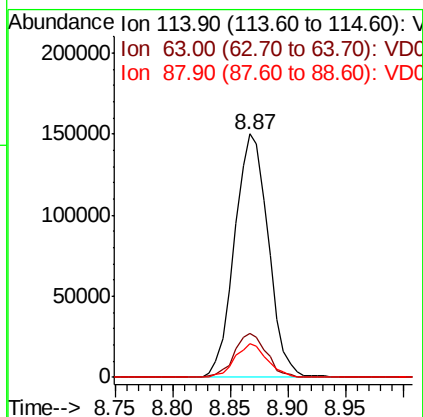
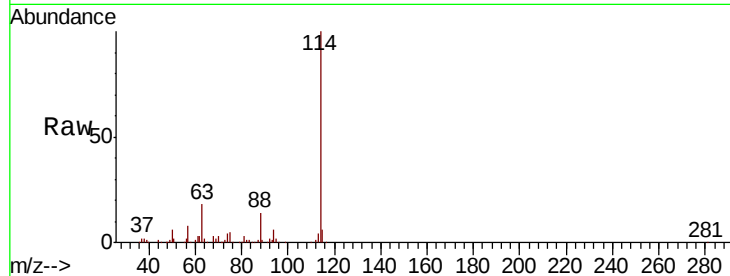




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064122.D
 Acq: 30 Oct 2019 19:50

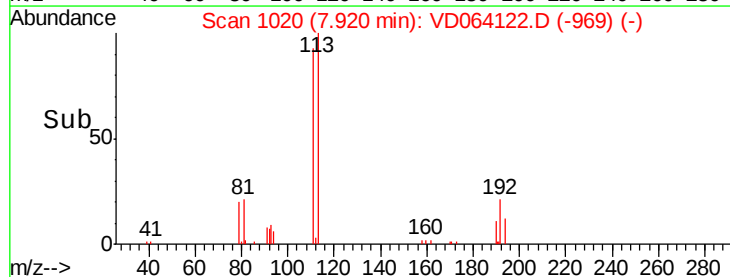
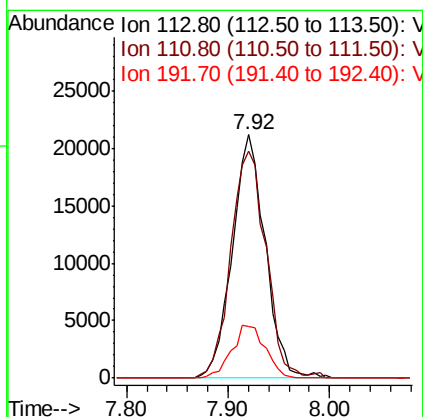
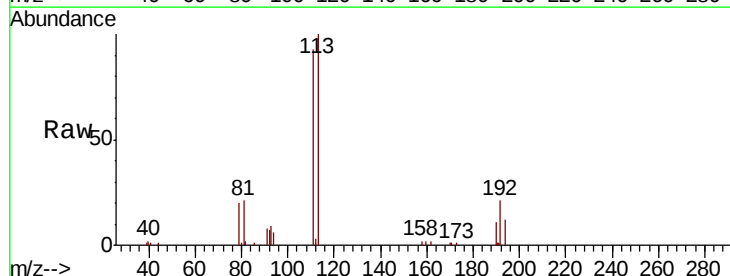
Instrument :
 MSVOA_D
 ClientSampleId :

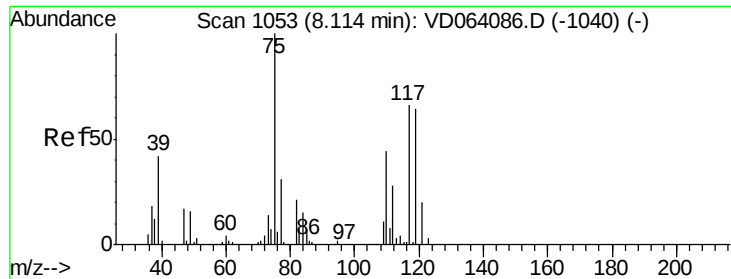
Tot Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	32.8
88	13.6	0.0	27.6



#35
 Dibromofluoromethane
 Concen: 25.561 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064122.D
 Acq: 30 Oct 2019 19:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	98.7	79.3	118.9
192	21.8	16.2	24.2

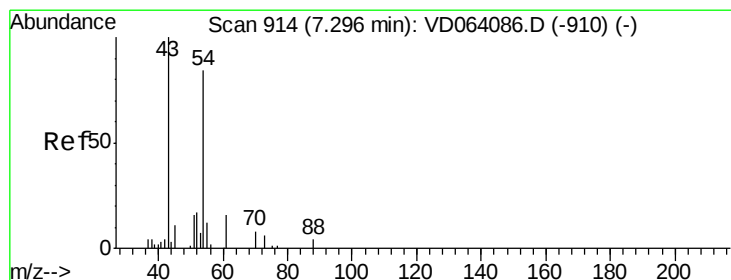
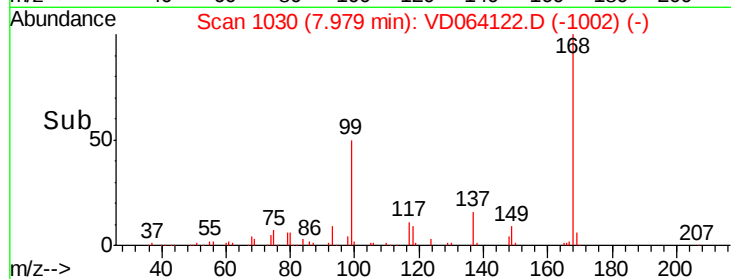
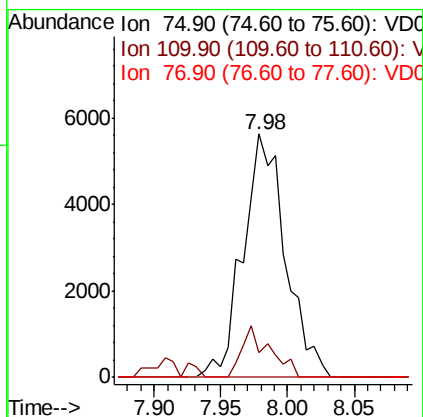
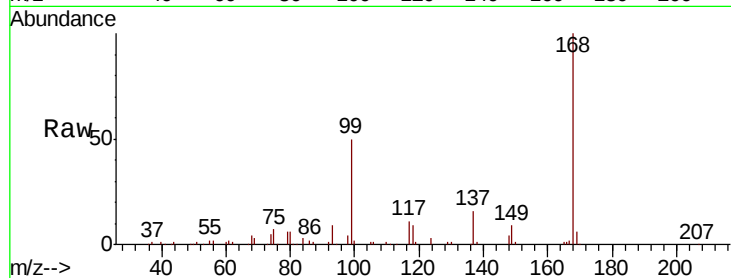




#36
 1,1-Dichloropropene
 Concen: 4.330 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064122.D
 Acq: 30 Oct 2019 19:50

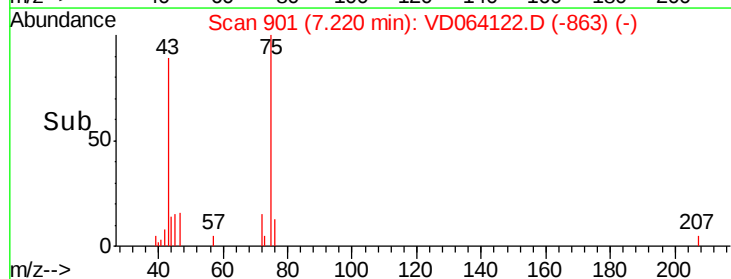
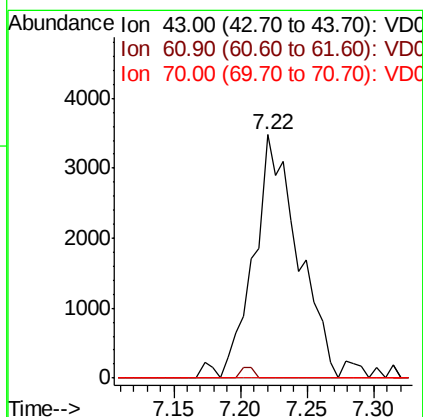
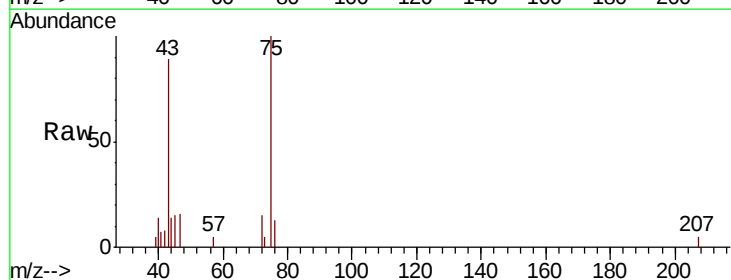
Instrument :
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 ClientSampled :

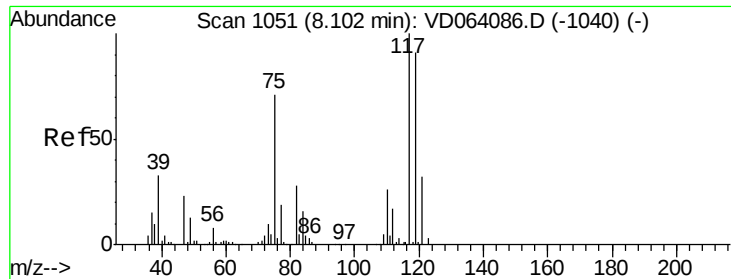
Tot Ion	Ratio	Lower	Upper
75	100		
110	13.9	20.0	59.9#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 9.167 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. -0.08 min
 Lab File: VD064122.D
 Acq: 30 Oct 2019 19:50

Tgt Ion	Ratio	Lower	Upper
43	100		
61	1.3	12.0	18.0#
70	0.0	3.8	5.6#

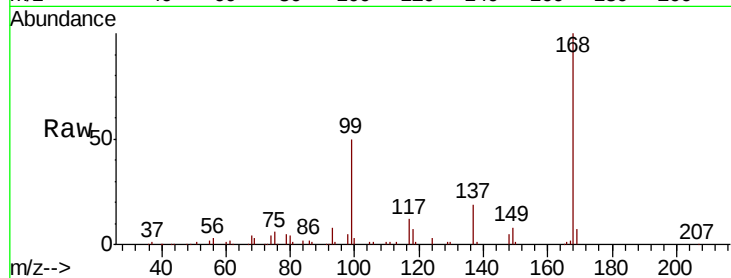




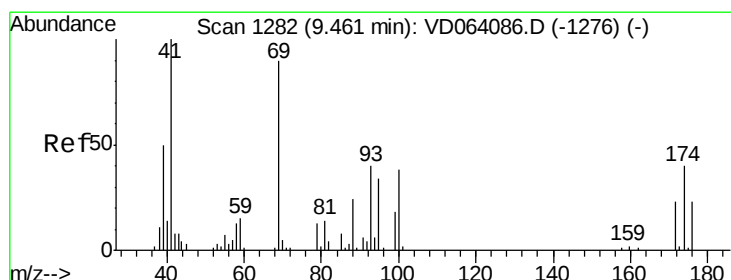
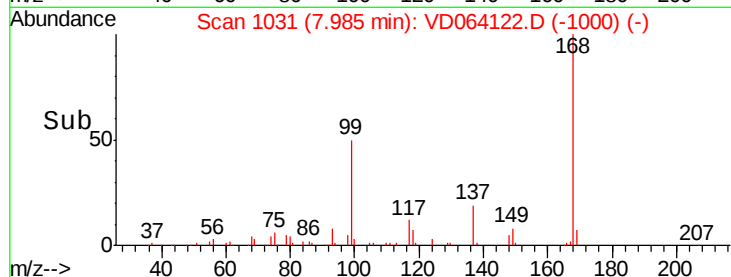
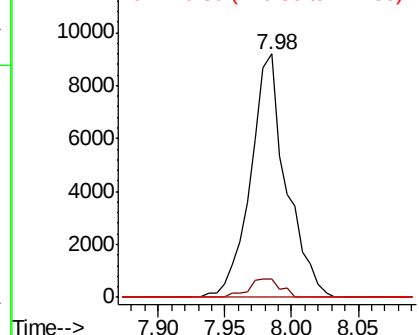
#38
Carbon Tetrachloride
Concen: 5.422 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.12 min
Lab File: VD064122.D
Acq: 30 Oct 2019 19:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 16894
Ion Ratio Lower Upper
117 100
119 7.7 72.6 108.8#
121 0.0 25.8 38.6#

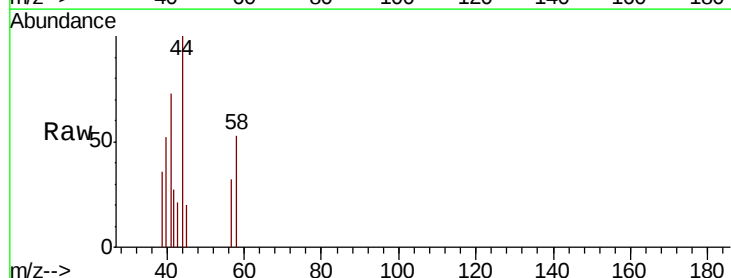


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

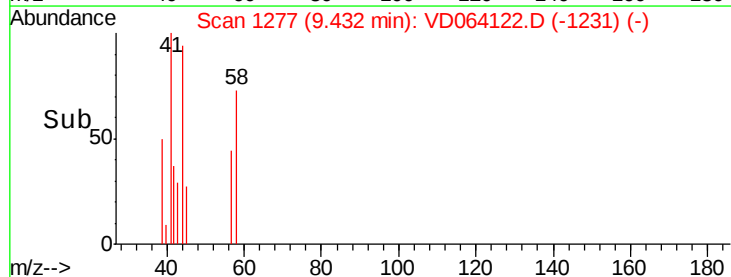
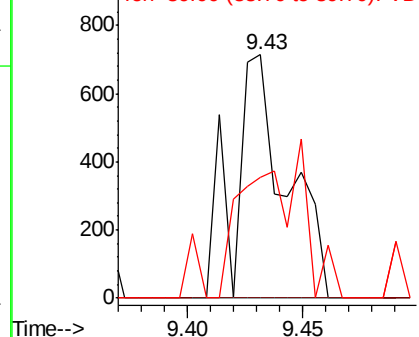


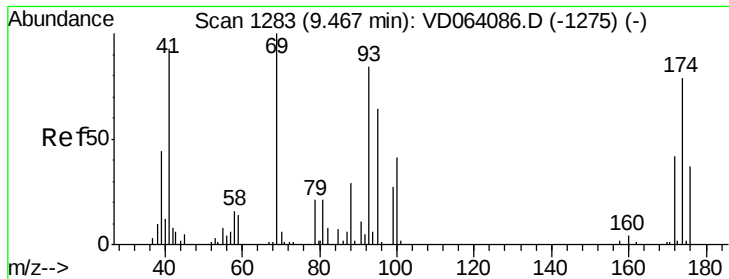
#48
Methyl methacrylate
Concen: 1.373 ug/l
RT: 9.43 min Scan# 1277
Delta R.T. -0.03 min
Lab File: VD064122.D
Acq: 30 Oct 2019 19:50

Tgt Ion: 41 Resp: 1128
Ion Ratio Lower Upper
41 100
69 0.0 82.6 124.0#
39 68.1 47.0 70.4



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC





#49

1,4-Dioxane

Concen: 4.581 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :
MSVOA_D
ClientSampleId :

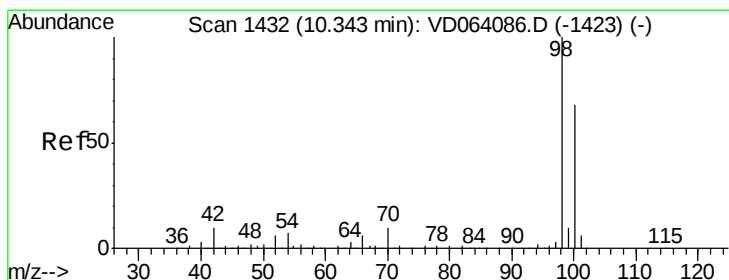
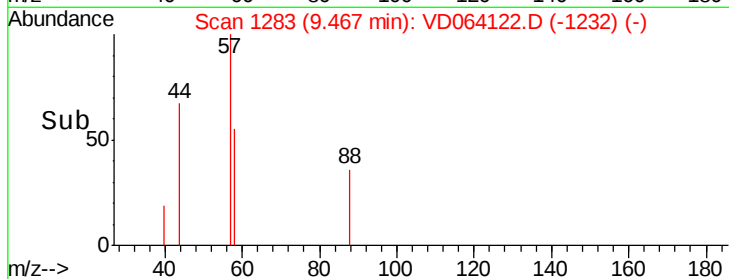
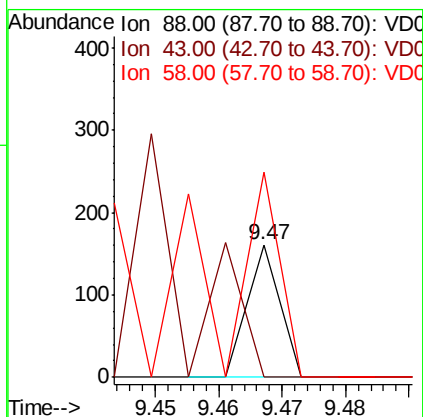
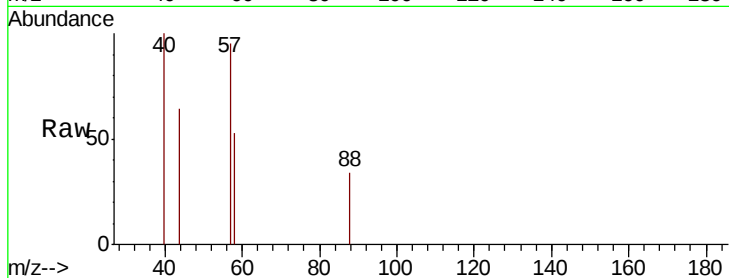
Tot Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 0.0 13.4 20.0#

58 293.0 46.7 70.1#



#50

Toluene-d8

Concen: 48.587 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064122.D

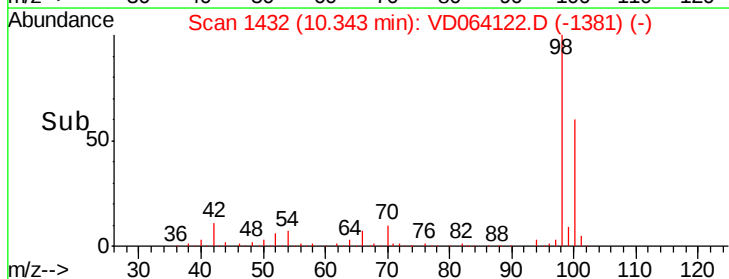
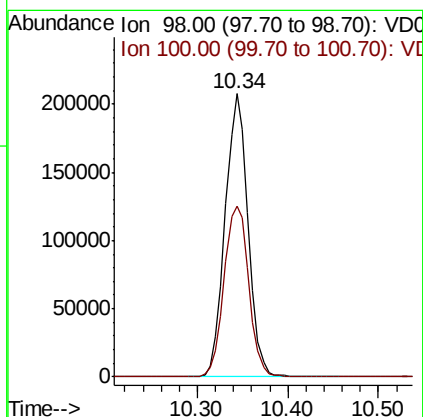
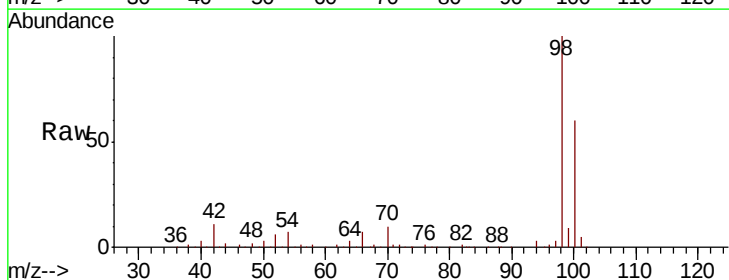
Acq: 30 Oct 2019 19:50

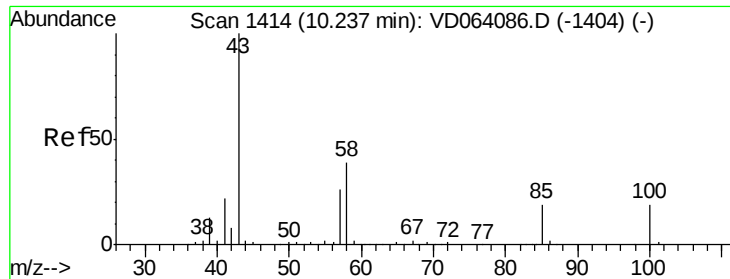
Tgt Ion: 98 Resp: 364334

Ion Ratio Lower Upper

98 100

100 64.9 53.4 80.0





#51

4-Methyl-2-Pentanone

Concen: 1.457 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

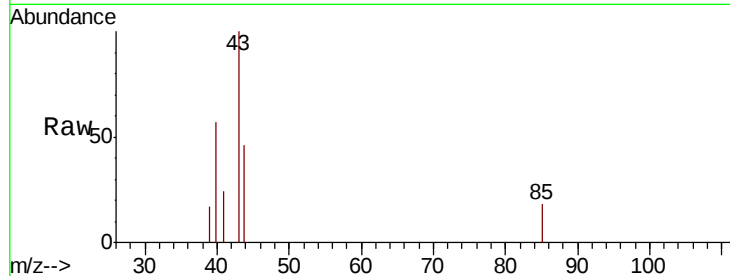
ClientSampleId :

Tot Ion: 43 Resp: 1409

Ion Ratio Lower Upper

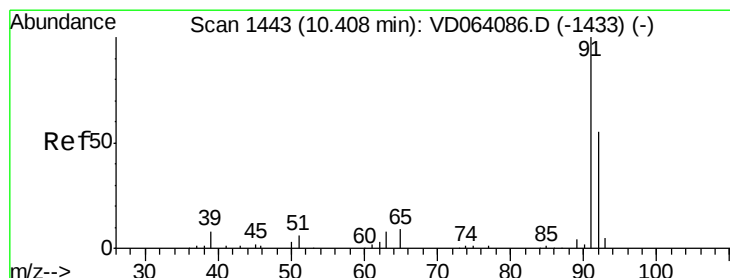
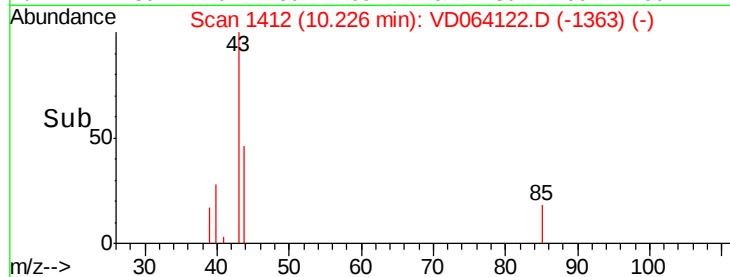
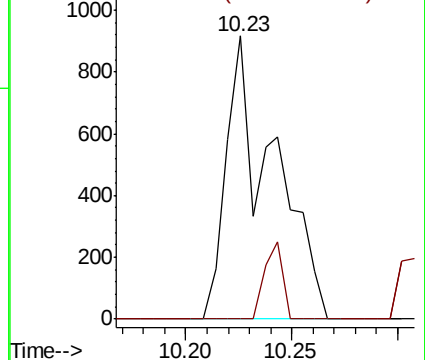
43 100

58 10.6 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 1.059 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064122.D

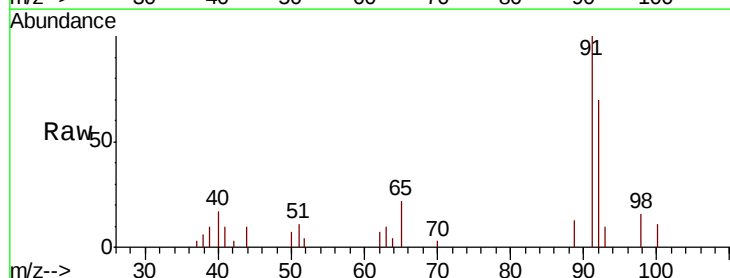
Acq: 30 Oct 2019 19:50

Tgt Ion: 92 Resp: 5781

Ion Ratio Lower Upper

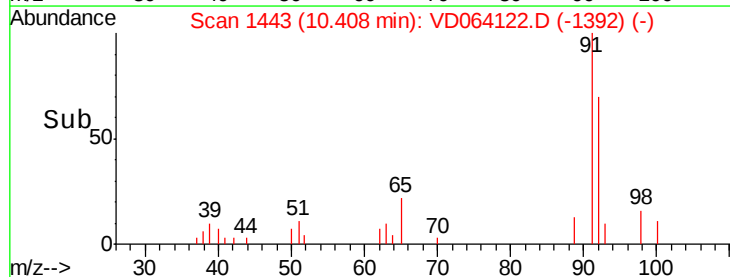
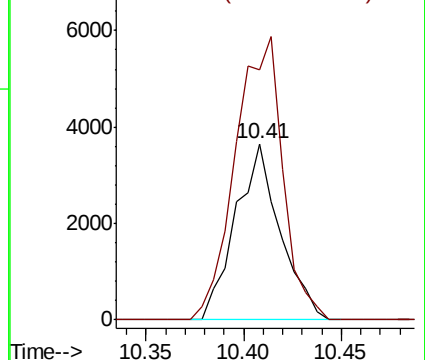
92 100

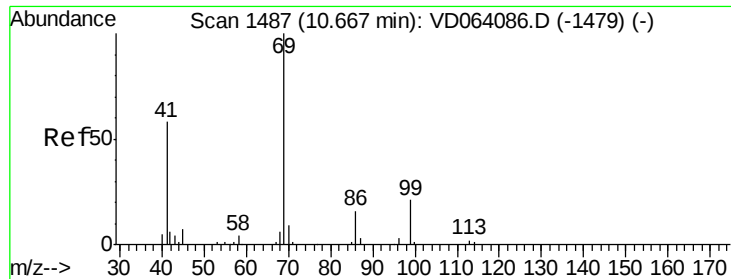
91 171.0 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#56

Ethyl methacrylate

Concen: 3.057 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

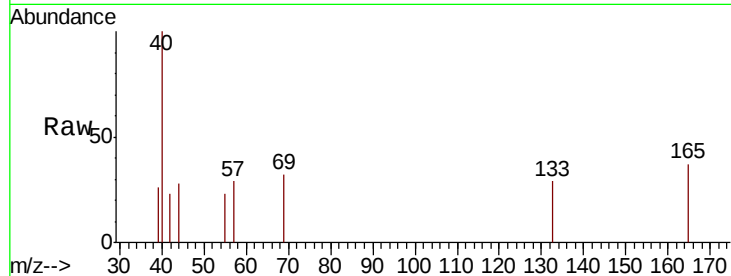
Tot Ion: 69 Resp: 76

Ion Ratio Lower Upper

69 100

41 214.5 46.9 70.3#

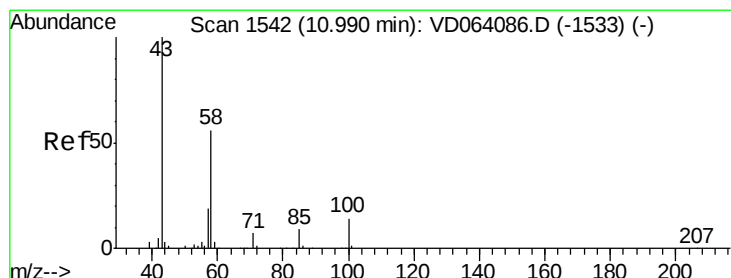
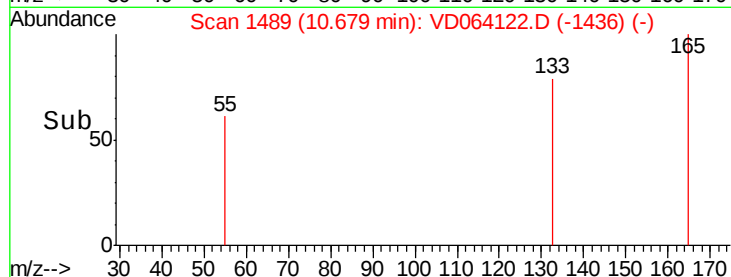
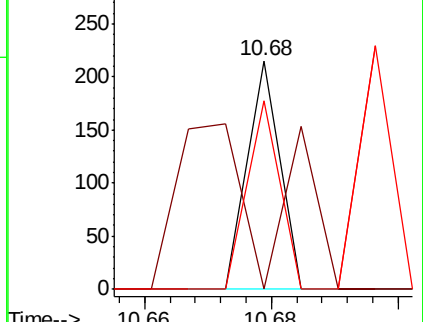
39 81.6 27.3 40.9#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#59

2-Hexanone

Concen: 10.082 ug/l

RT: 11.00 min Scan# 1543

Delta R.T. 0.01 min

Lab File: VD064122.D

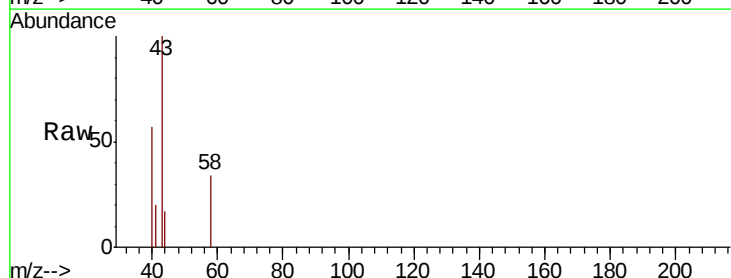
Acq: 30 Oct 2019 19:50

Tgt Ion: 43 Resp: 840

Ion Ratio Lower Upper

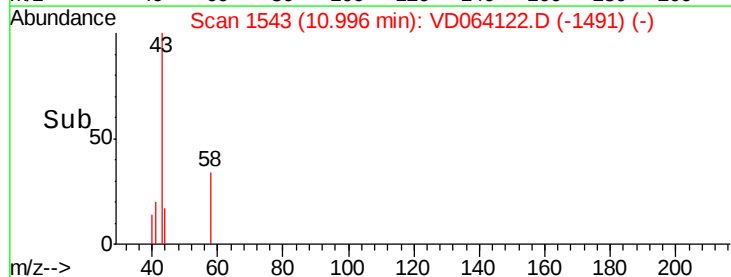
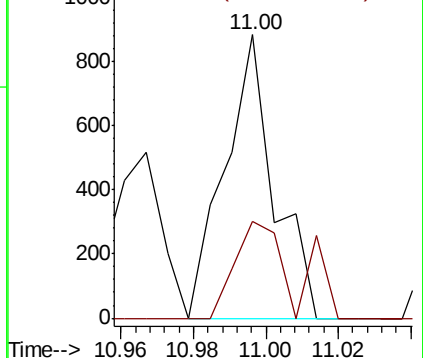
43 100

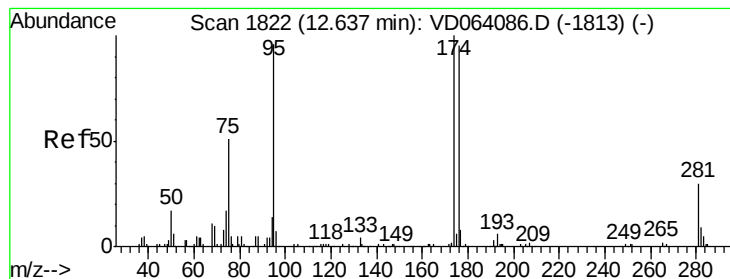
58 41.2 29.2 87.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 47.567 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

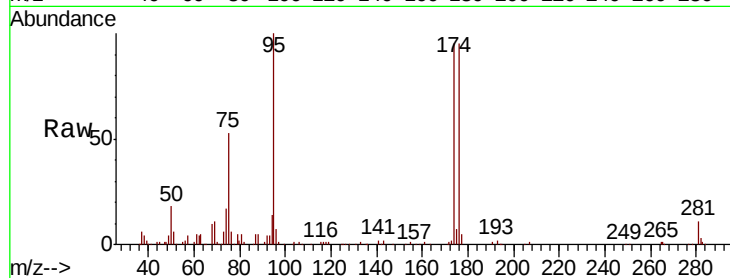
Tot Ion: 95 Resp: 118252

Ion Ratio Lower Upper

95 100

174 96.5 0.0 201.6

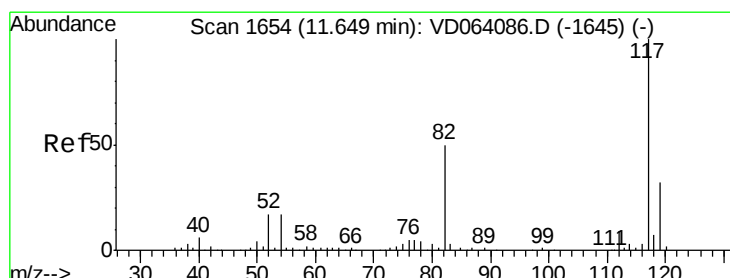
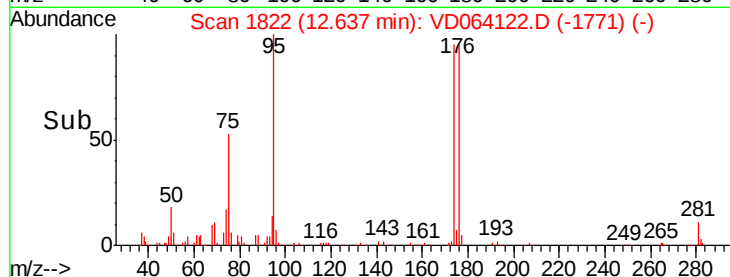
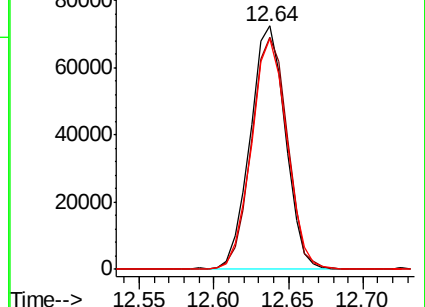
176 95.2 0.0 192.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

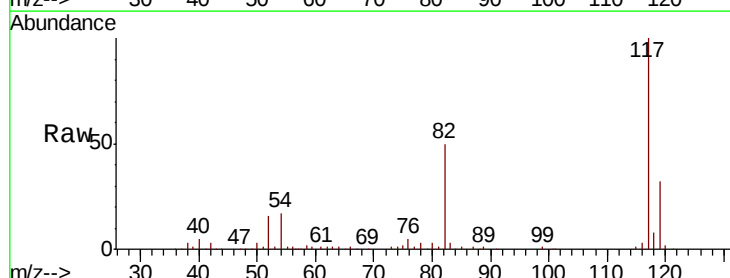
Tgt Ion: 117 Resp: 299199

Ion Ratio Lower Upper

117 100

82 50.1 40.2 60.4

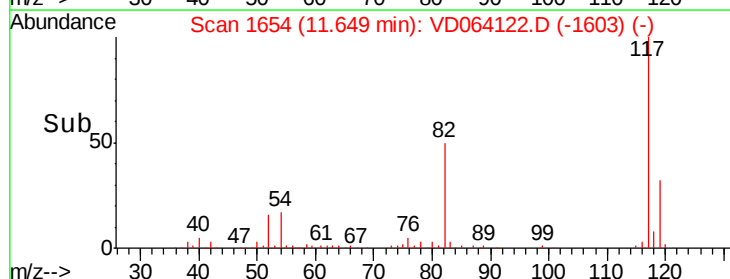
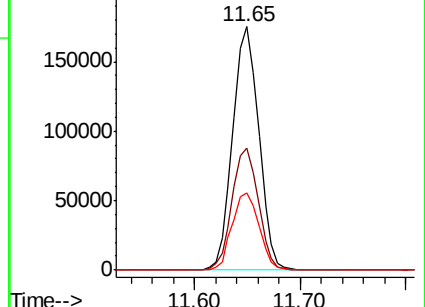
119 31.9 26.0 39.0

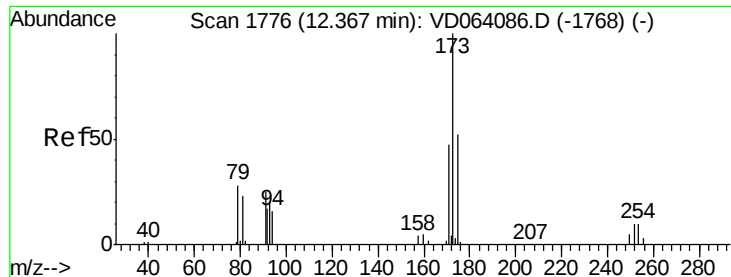


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.213 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

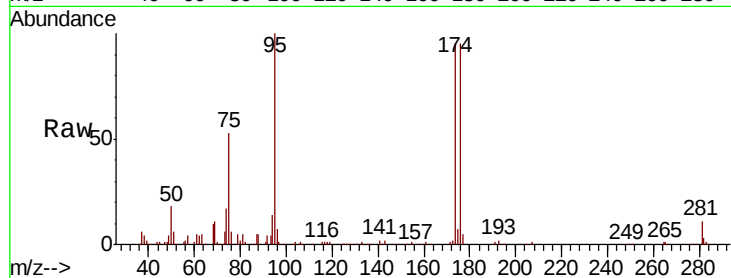
Tot Ion:173 Resp: 1499

Ion Ratio Lower Upper

173 100

175 476.1 24.3 72.9#

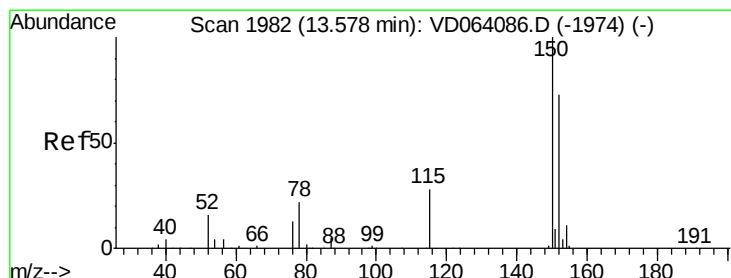
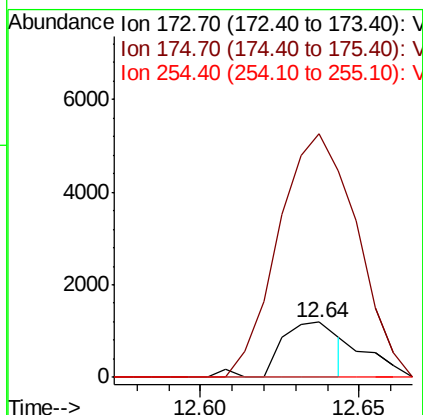
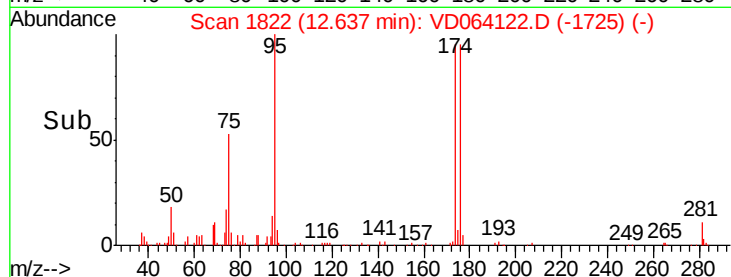
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

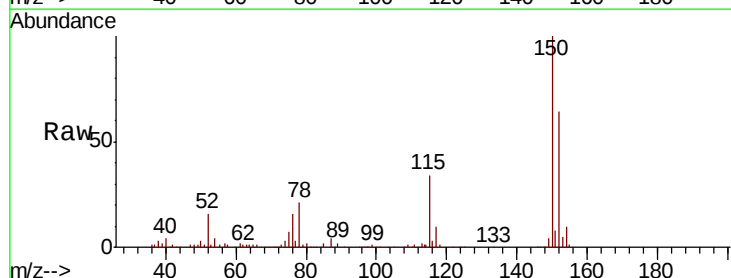
Tgt Ion:152 Resp: 128794

Ion Ratio Lower Upper

152 100

115 53.1 26.2 78.6

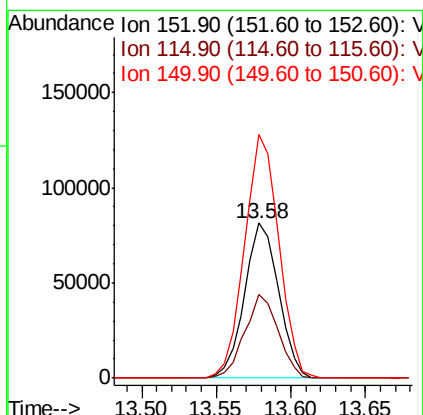
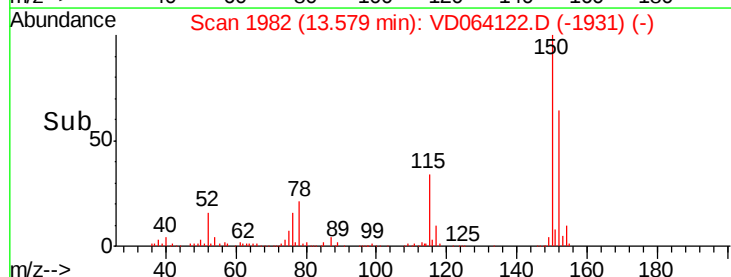
150 157.3 0.0 338.8

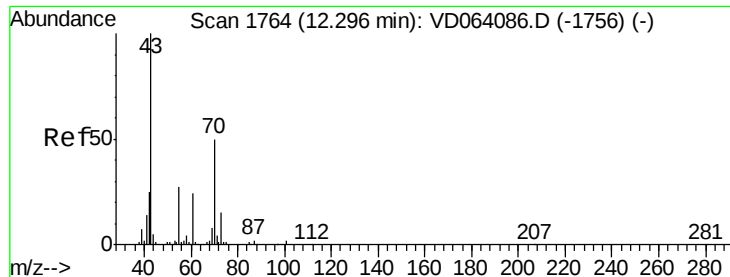


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.463 ug/l

RT: 12.26 min Scan# 1757

Delta R.T. -0.04 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 2175

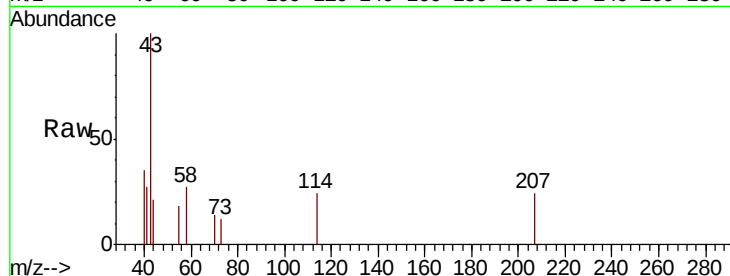
Ion Ratio Lower Upper

43 100

70 3.4 38.6 58.0#

55 14.1 20.4 30.6#

61 0.0 20.8 31.2#

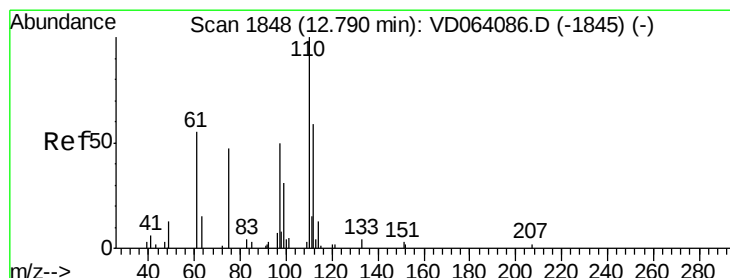
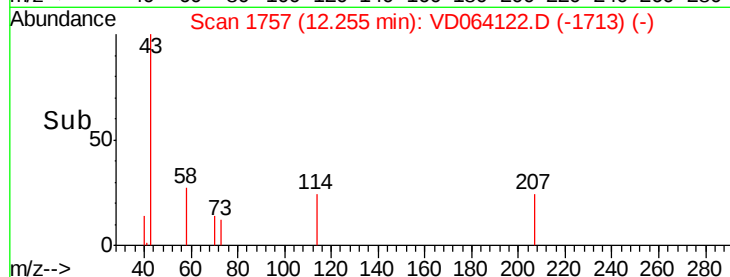
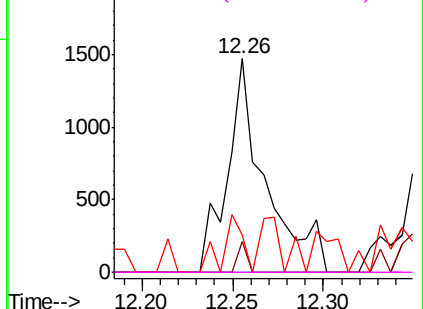


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 73.762 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064122.D

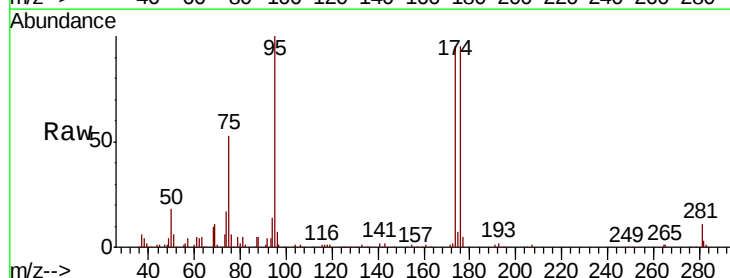
Acq: 30 Oct 2019 19:50

Tgt Ion: 75 Resp: 63835

Ion Ratio Lower Upper

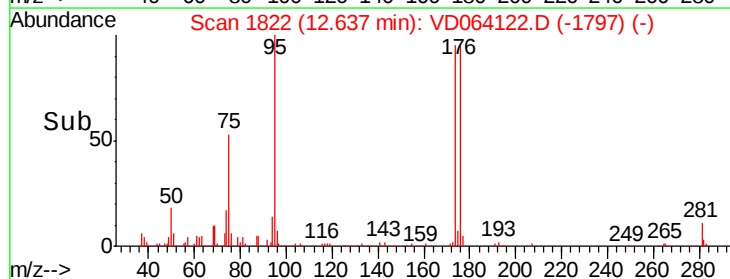
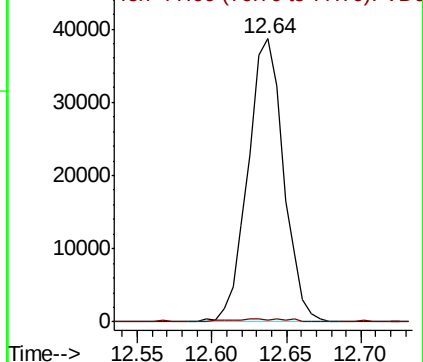
75 100

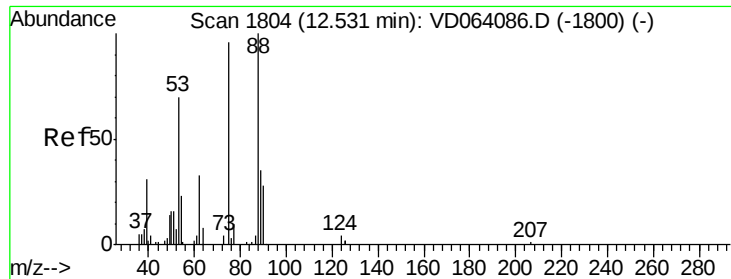
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 150.640 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

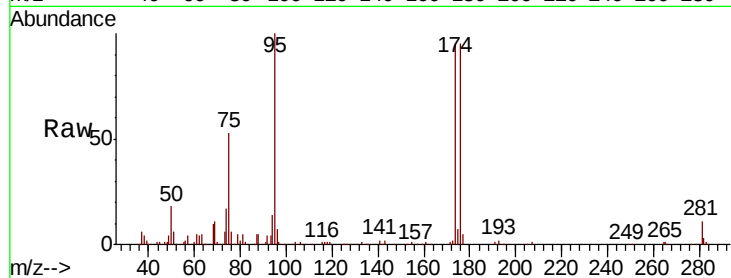
Tot Ion: 75 Resp: 63835

Ion Ratio Lower Upper

75 100

53 0.1 68.6 103.0#

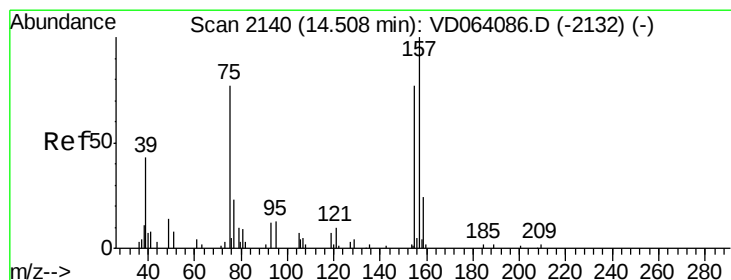
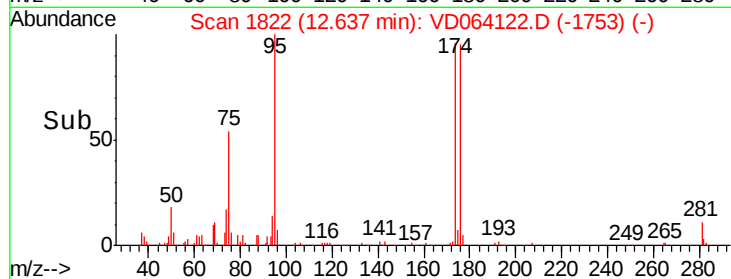
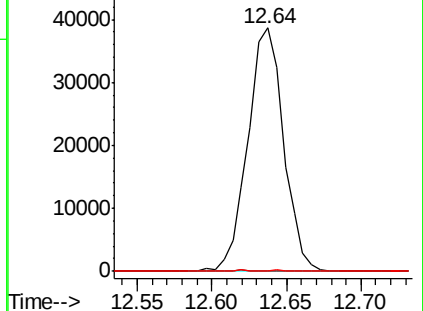
89 0.1 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.048 ug/l

RT: 14.56 min Scan# 2148

Delta R.T. 0.05 min

Lab File: VD064122.D

Acq: 30 Oct 2019 19:50

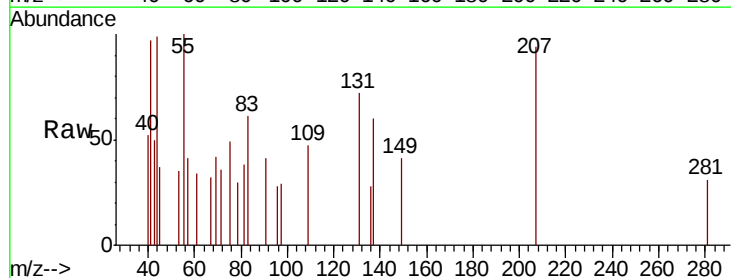
Tgt Ion: 75 Resp: 422

Ion Ratio Lower Upper

75 100

155 0.0 56.3 168.9#

157 0.0 72.2 216.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

