

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111519\
 Data File : VD064253.D
 Acq On : 16 Nov 2019 05:23
 Operator : VA/SY
 Sample : K5864-03RE
 Misc : 5.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 18 00:45:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	77749	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	111154	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	107567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	56553	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	46371	72.52	ug/l	0.00
Spiked Amount			Recovery	=	145.04%	
35) Dibromofluoromethane	7.92	113	37244	58.37	ug/l	0.00
Spiked Amount			Recovery	=	116.74%	
50) Toluene-d8	10.34	98	131996	54.84	ug/l	0.00
Spiked Amount			Recovery	=	109.68%	
62) 4-Bromofluorobenzene	12.64	95	48986	58.77	ug/l	0.00
Spiked Amount			Recovery	=	117.54%	

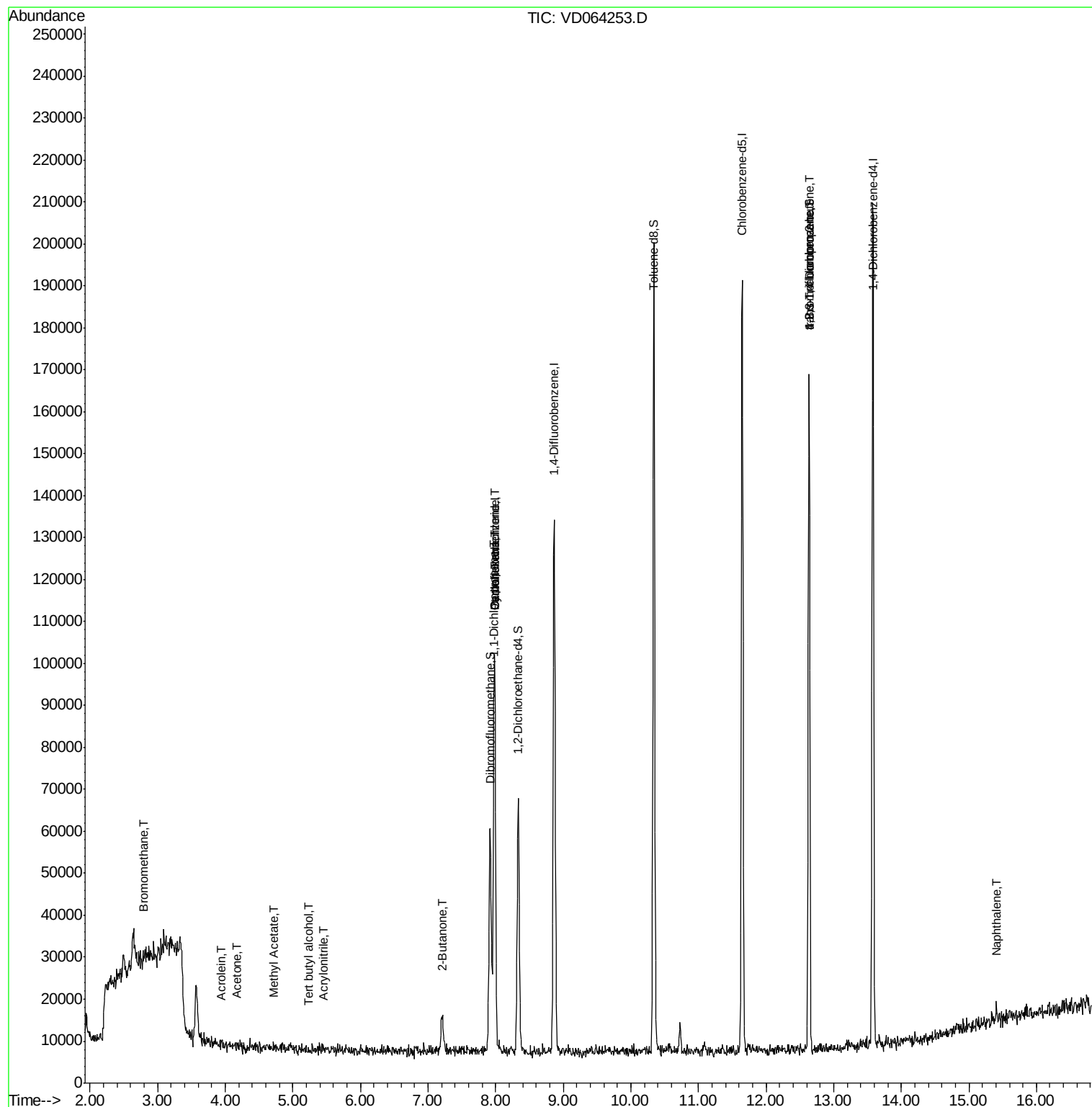
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.80	94	748	1.602	ug/l #	72
11) Tert butyl alcohol	5.24	59	246	5.508	ug/l #	1
13) Acrolein	3.94	56	132	3.494	ug/l #	1
15) Acrylonitrile	5.45	53	175	1.245	ug/l #	17
16) Acetone	4.17	43	3056	20.174	ug/l #	83
18) Methyl Acetate	4.71	43	496	1.172	ug/l #	53
25) 2-Butanone	7.21	43	1611	8.232	ug/l #	49
31) Cyclohexane	7.98	56	1791	1.427	ug/l #	66
36) 1,1-Dichloropropene	7.97	75	2817	2.746	ug/l #	55
38) Carbon Tetrachloride	7.98	117	7262	6.616	ug/l #	17
76) 1,2,3-Trichloropropane	12.64	75	24556	53.908	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	24556	107.082	ug/l #	10
95) Naphthalene	15.41	128	2572	1.284	ug/l #	89

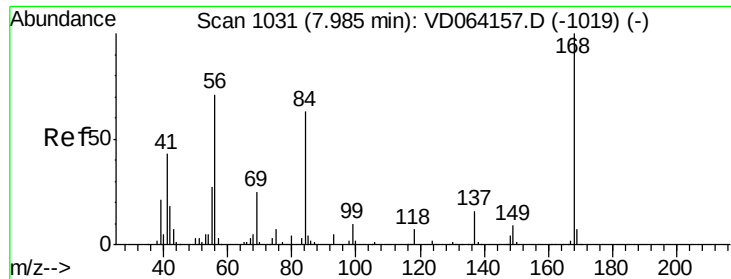
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

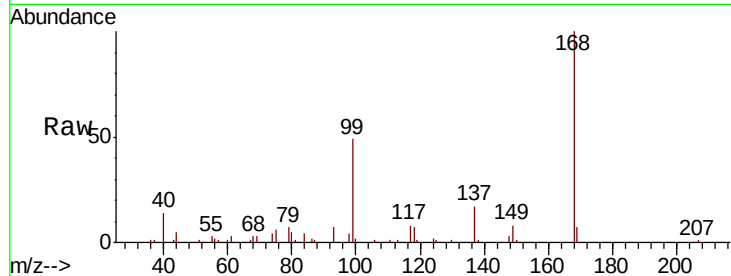
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 77749

Ion Ratio Lower Upper

168 100

99 49.2 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

40000

30000

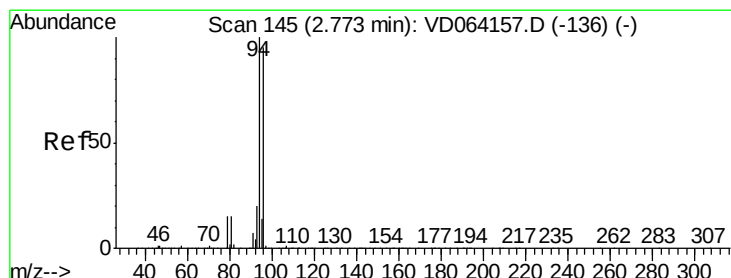
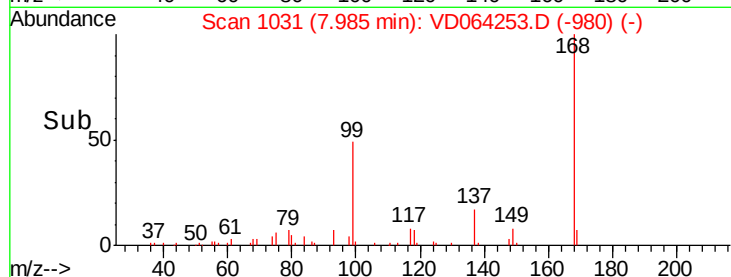
20000

10000

0

7.90 7.95 8.00 8.05

Time-->



#5

Bromomethane

Concen: 1.602 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD064253.D

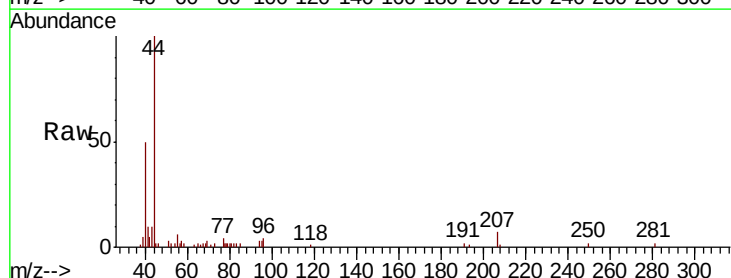
Acq: 16 Nov 2019 05:23

Tgt Ion: 94 Resp: 748

Ion Ratio Lower Upper

94 100

96 68.4 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.80

600

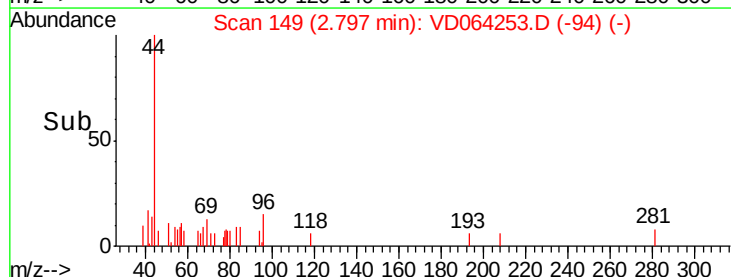
400

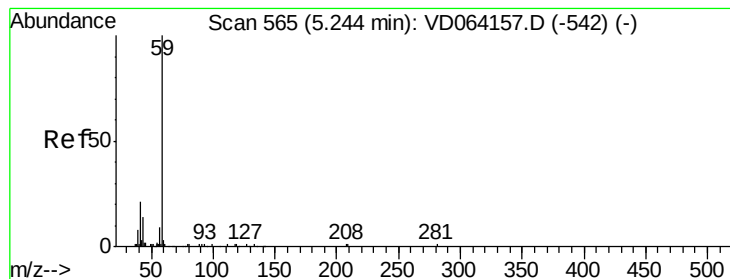
200

0

2.74 2.76 2.78 2.80 2.82

Time-->





#11

Tert butyl alcohol

Concen: 5.508 ug/l

RT: 5.24 min Scan# 564

Delta R.T. -0.01 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

Instrument :

MSVOA_D

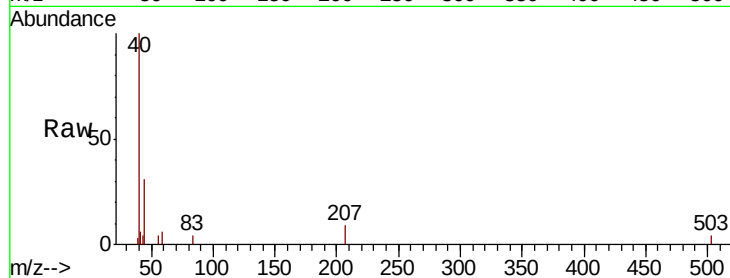
ClientSampled :

Tot Ion: 59 Resp: 246

Ion Ratio Lower Upper

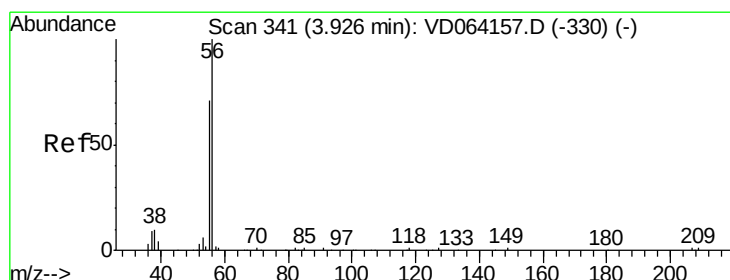
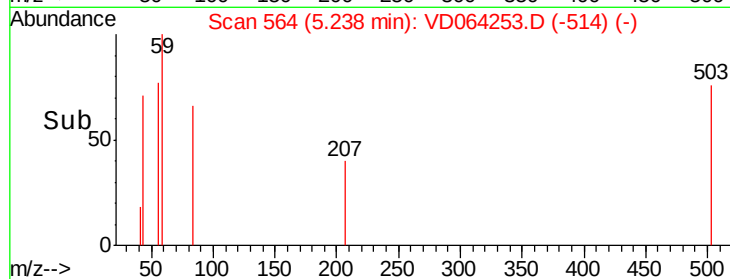
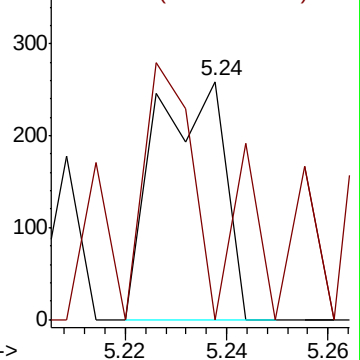
59 100

57 97.6 9.4 14.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#13

Acrolein

Concen: 3.494 ug/l

RT: 3.94 min Scan# 343

Delta R.T. 0.01 min

Lab File: VD064253.D

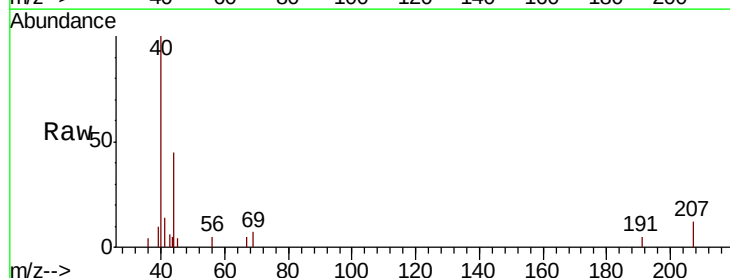
Acq: 16 Nov 2019 05:23

Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

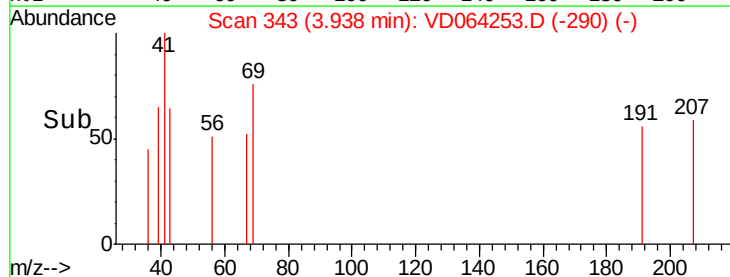
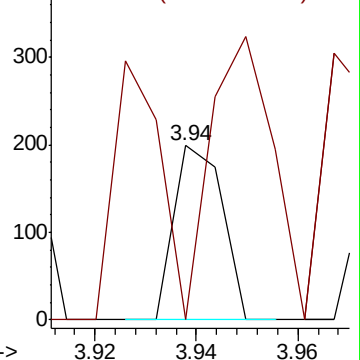
56 100

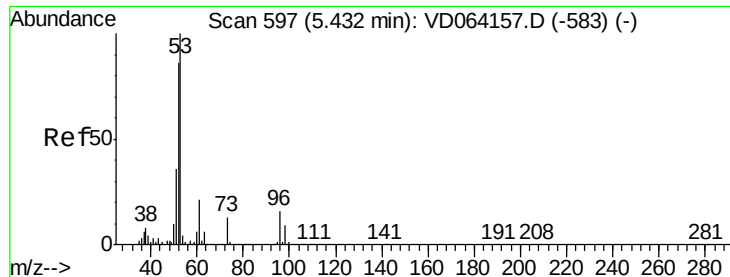
55 206.8 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC





#15

Acrylonitrile

Concen: 1.245 ug/l

RT: 5.45 min Scan# 600

Delta R.T. 0.02 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

Instrument :
MSVOA_D
ClientSampled :

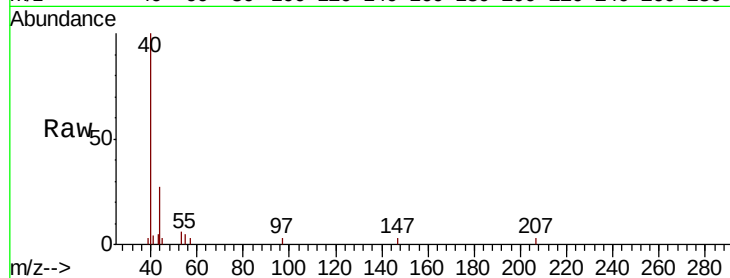
Tot Ion: 53 Resp: 175

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 30.6 46.0#



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

5.45

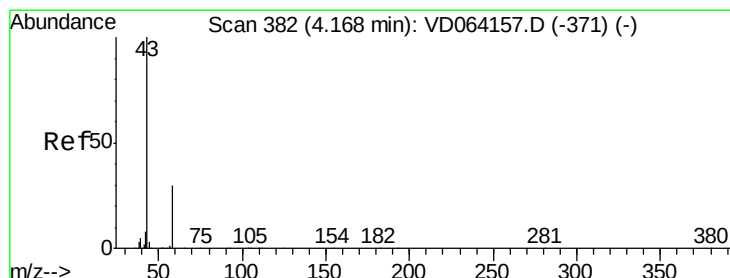
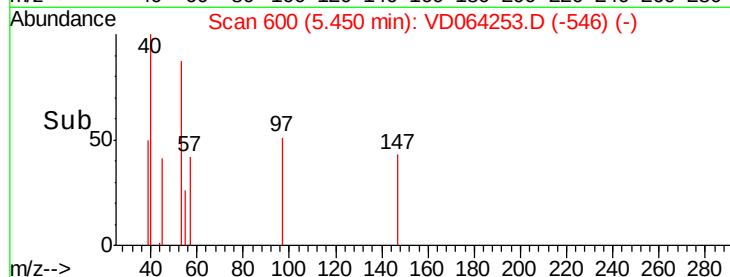
300

200

100

0

Time--> 5.42 5.44 5.46



#16

Acetone

Concen: 20.174 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064253.D

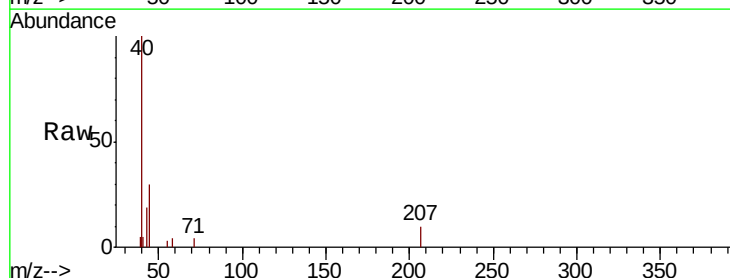
Acq: 16 Nov 2019 05:23

Tgt Ion: 43 Resp: 3056

Ion Ratio Lower Upper

43 100

58 20.9 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

4.17

1000

800

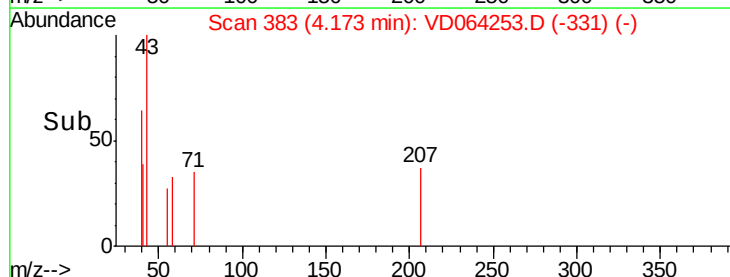
600

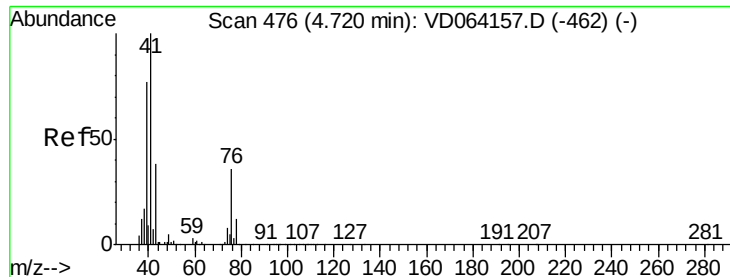
400

200

0

Time--> 4.10 4.15 4.20 4.25

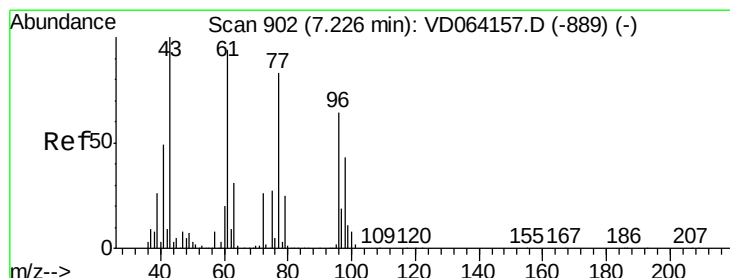
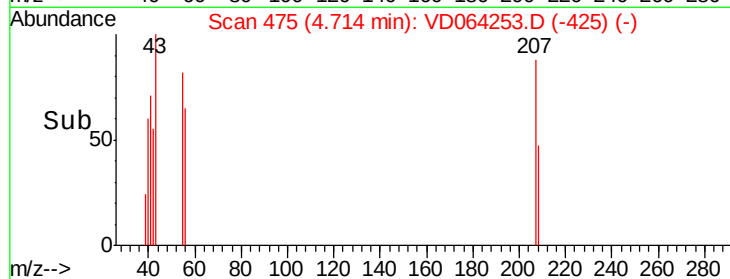
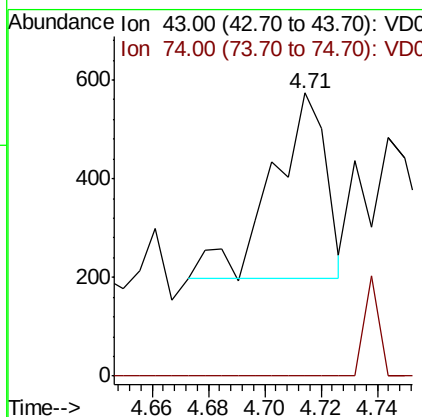
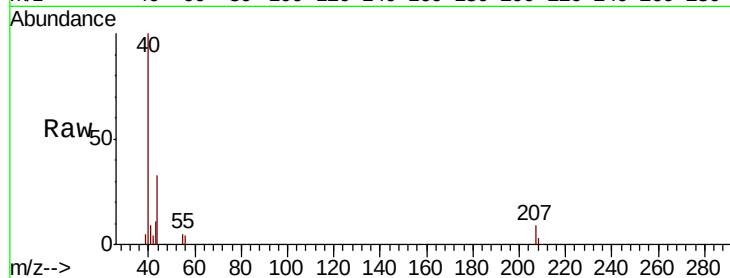




#18
Methyl Acetate
Concen: 1.172 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD064253.D
Acq: 16 Nov 2019 05:23

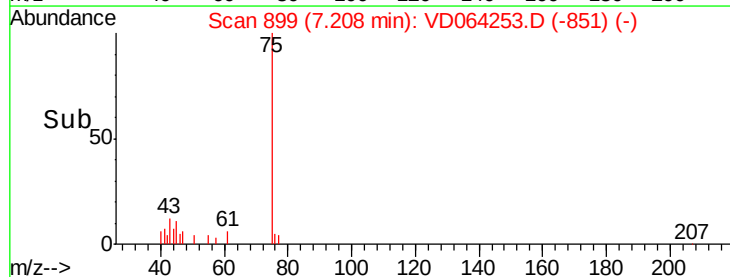
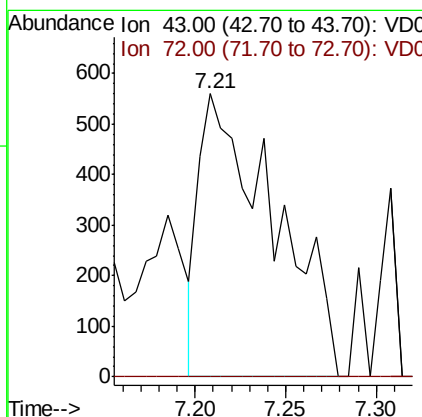
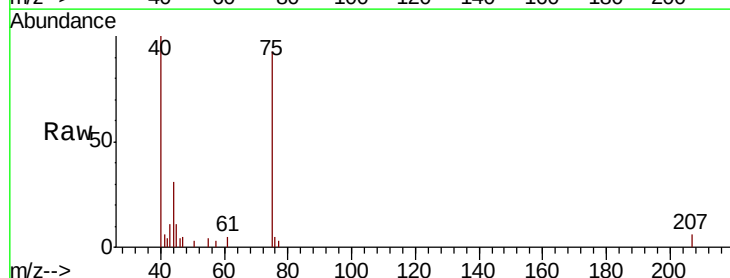
Instrument :
MSVOA_D
ClientSampled :

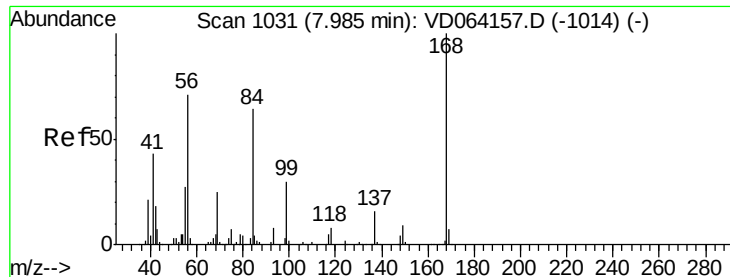
Tot Ion: 43 Resp: 496
Ion Ratio Lower Upper
43 100
74 0.0 18.4 27.6#



#25
2-Butanone
Concen: 8.232 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.02 min
Lab File: VD064253.D
Acq: 16 Nov 2019 05:23

Tgt Ion: 43 Resp: 1611
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#

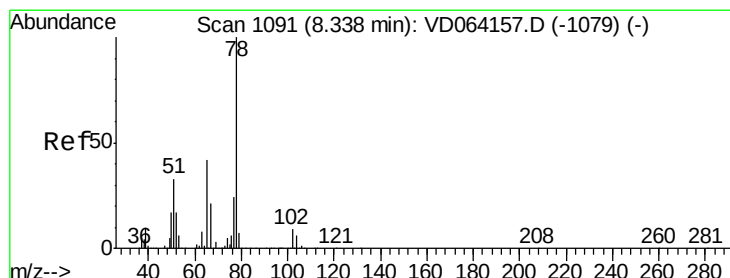
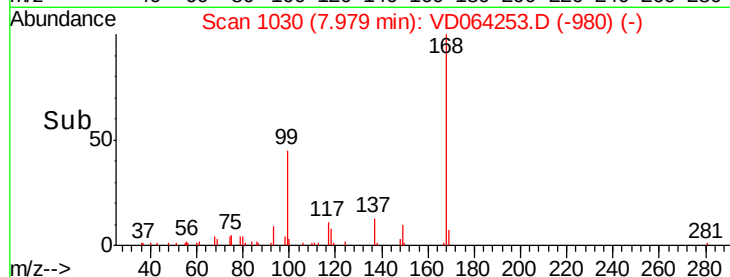
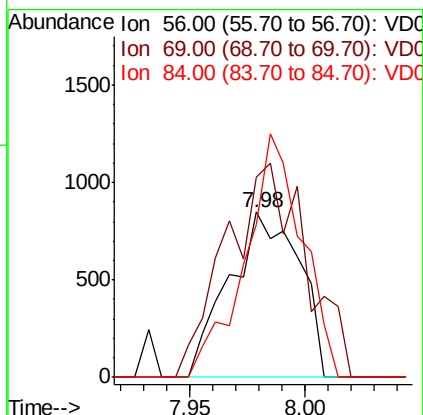
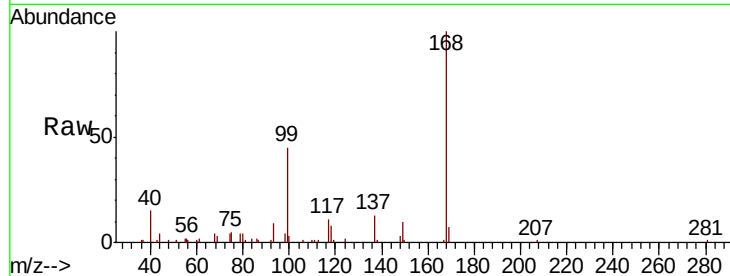




#31
Cyclohexane
Concen: 1.427 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064253.D
Acq: 16 Nov 2019 05:23

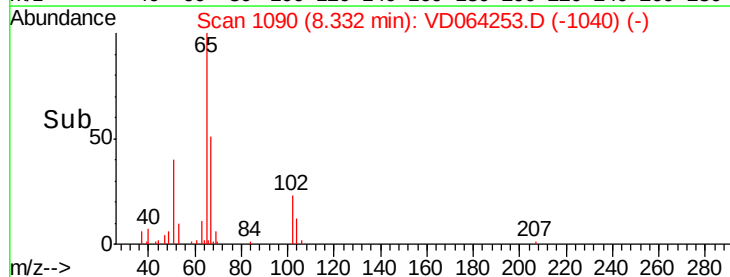
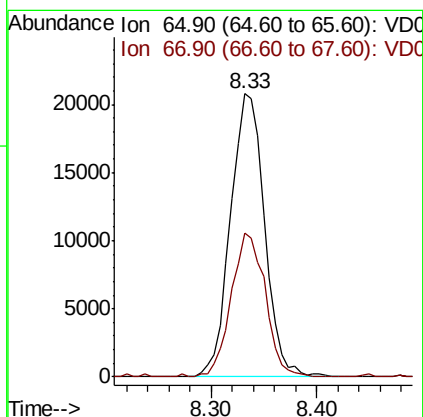
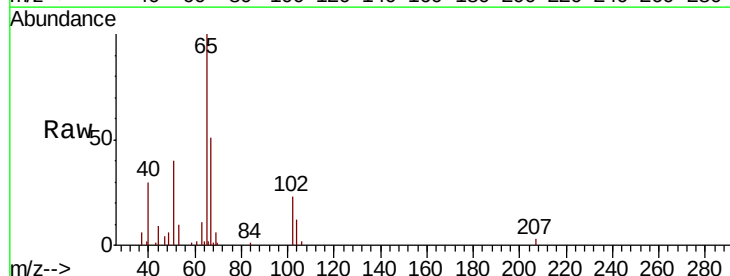
Instrument :
MSVOA_D
ClientSampleId :

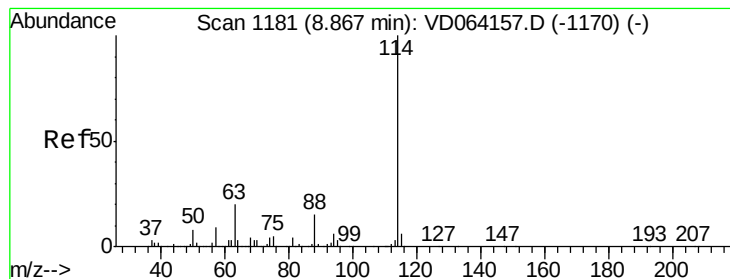
Tot Ion: 56 Resp: 1791
Ion Ratio Lower Upper
56 100
69 101.8 28.2 42.4#
84 92.1 71.8 107.6



#33
1,2-Dichloroethane-d4
Concen: 72.518 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064253.D
Acq: 16 Nov 2019 05:23

Tgt Ion: 65 Resp: 46371
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

Instrument :

MSVOA_D

ClientSampleId :

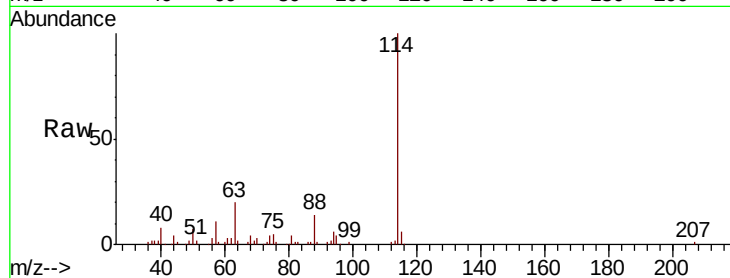
Tot Ion:114 Resp: 111154

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

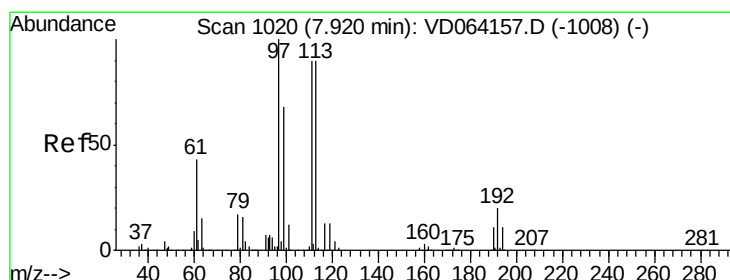
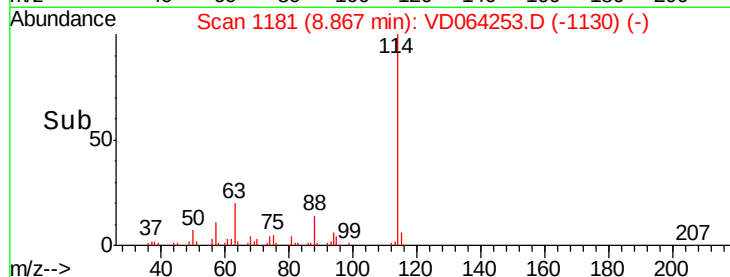
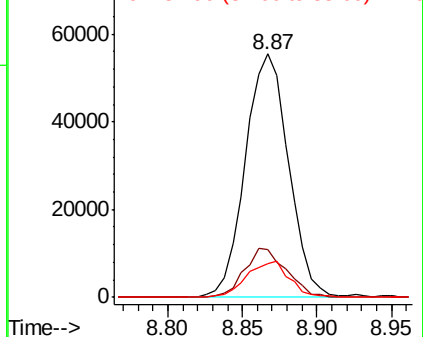
88 13.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 58.372 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

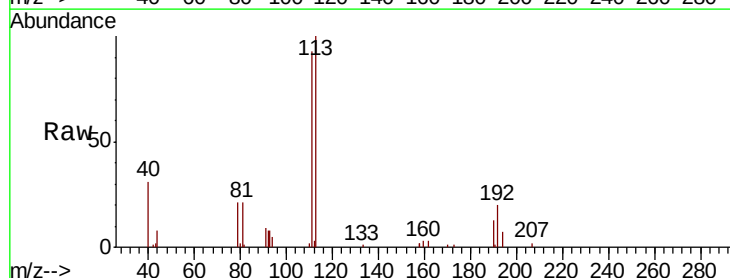
Tgt Ion:113 Resp: 37244

Ion Ratio Lower Upper

113 100

111 101.1 81.5 122.3

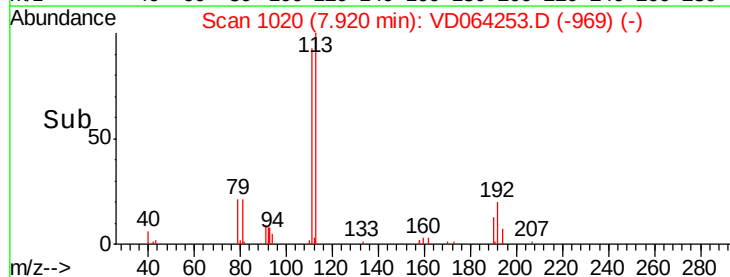
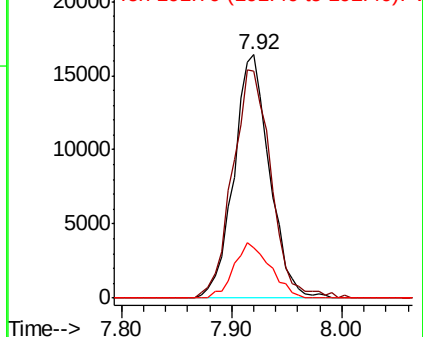
192 23.1 18.8 28.2

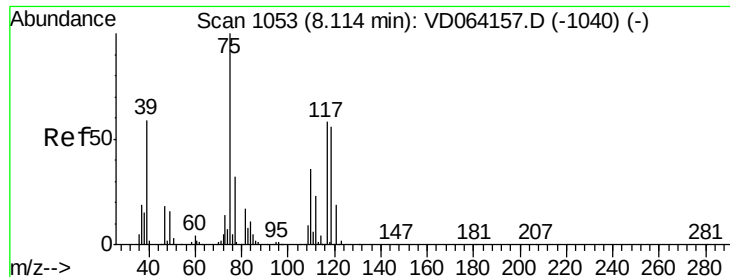


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 2.746 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.15 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

Instrument :

MSVOA_D

ClientSampleId :

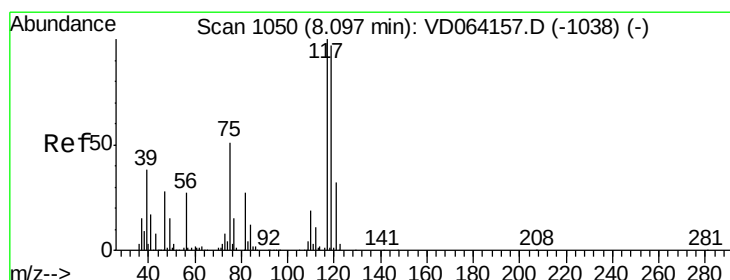
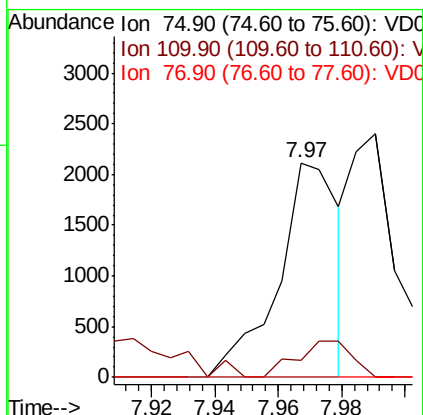
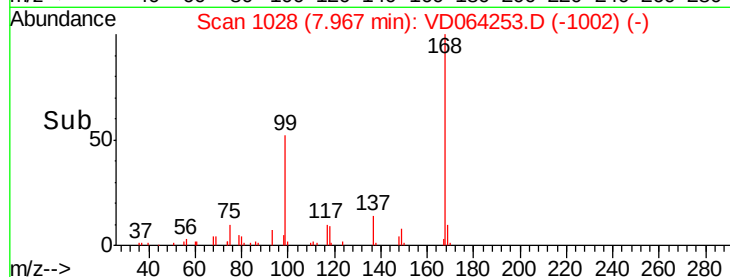
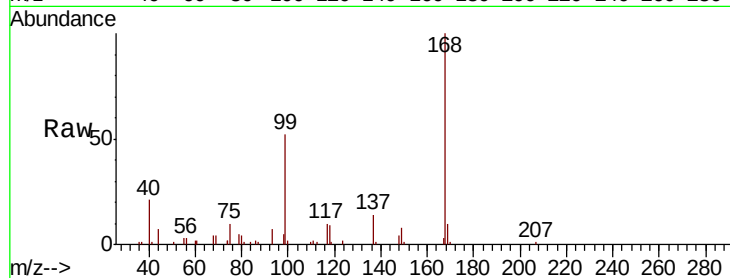
Tot Ion: 75 Resp: 2817

Ion Ratio Lower Upper

75 100

110 15.6 18.3 54.9#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 6.616 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

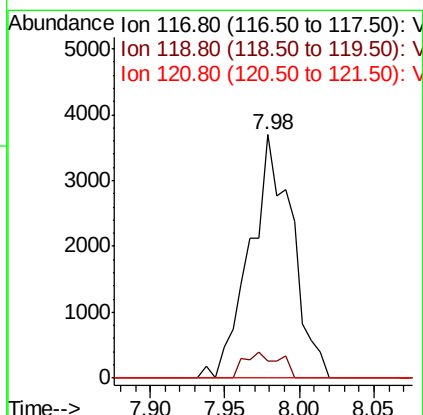
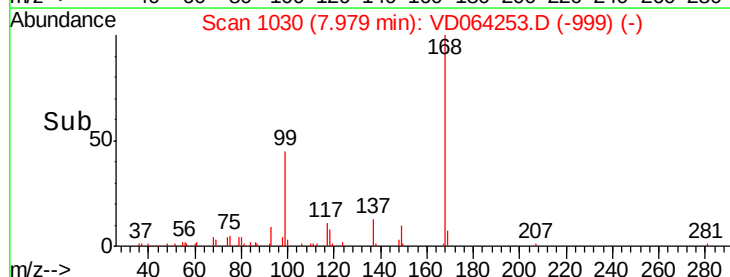
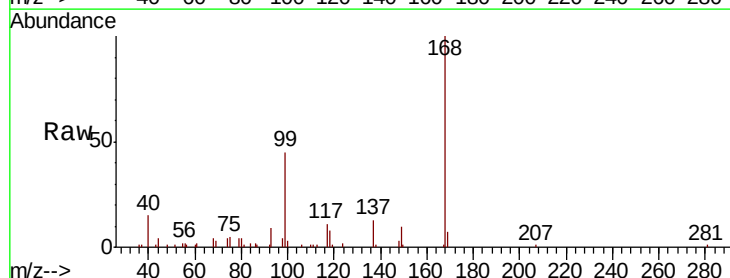
Tgt Ion: 117 Resp: 7262

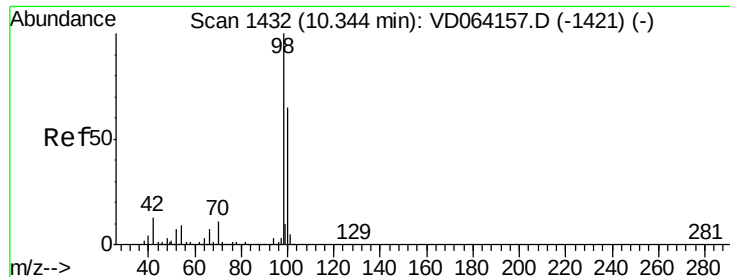
Ion Ratio Lower Upper

117 100

119 7.0 77.2 115.8#

121 0.0 25.5 38.3#





#50

Toluene-d8

Concen: 54.839 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

Instrument :

MSVOA_D

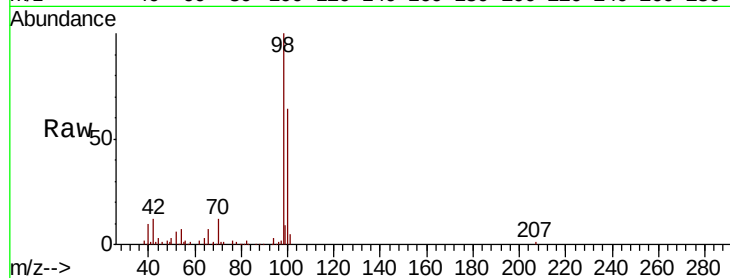
ClientSampleId :

Tot Ion: 98 Resp: 131996

Ion Ratio Lower Upper

98 100

100 65.5 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VD064157.D (-1421) (-)

Ion 100.00 (99.70 to 100.70): VD064157.D (-1421) (-)

10.34

80000

60000

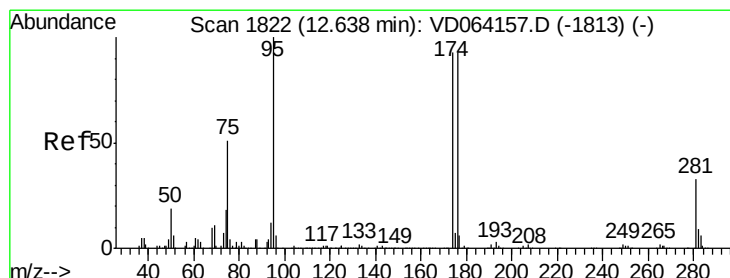
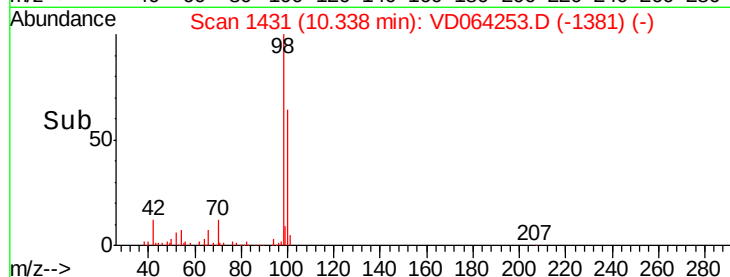
40000

20000

0

10.30 10.40

Time-->



#62

4-Bromofluorobenzene

Concen: 58.768 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064253.D

Acq: 16 Nov 2019 05:23

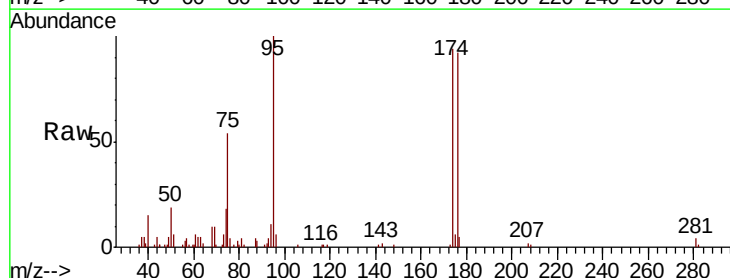
Tgt Ion: 95 Resp: 48986

Ion Ratio Lower Upper

95 100

174 96.5 0.0 183.6

176 91.5 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VD064157.D (-1813) (-)

Ion 173.80 (173.50 to 174.50): VD064157.D (-1813) (-)

Ion 175.80 (175.50 to 176.50): VD064157.D (-1813) (-)

12.64

40000

30000

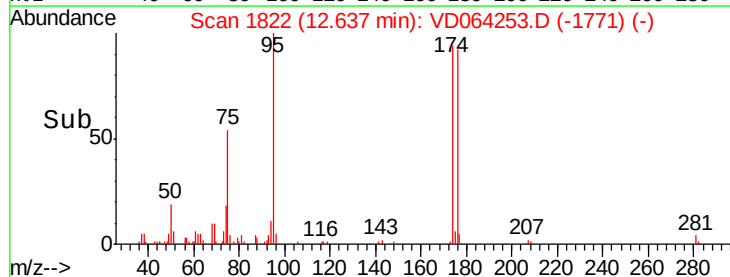
20000

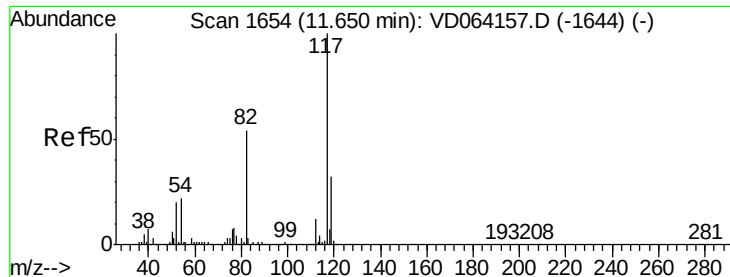
10000

0

12.55 12.60 12.65 12.70

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064253.D

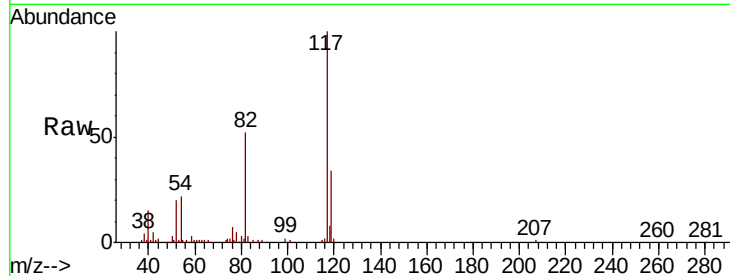
Acq: 16 Nov 2019 05:23

Instrument :

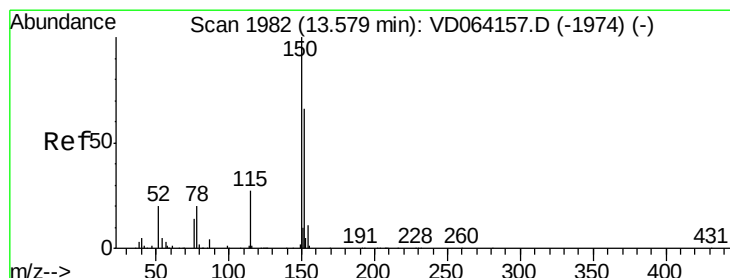
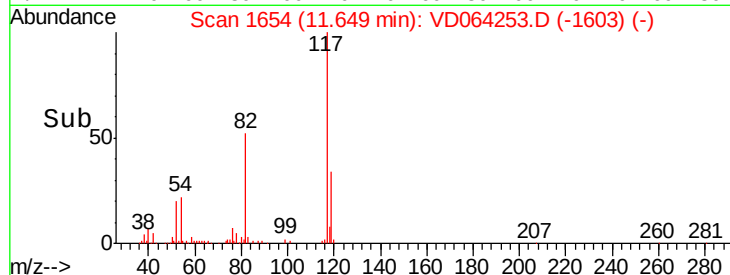
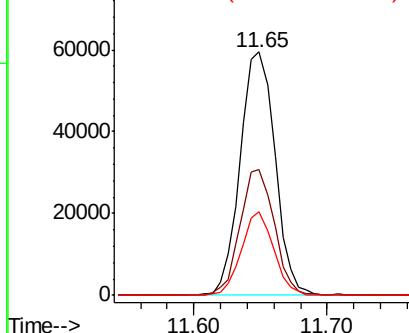
MSVOA_D

ClientSampleId :

Tot Ion:	117	Resp:	107567
Ion	Ratio	Lower	Upper
117	100		
82	51.7	42.8	64.2
119	34.1	25.6	38.4



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

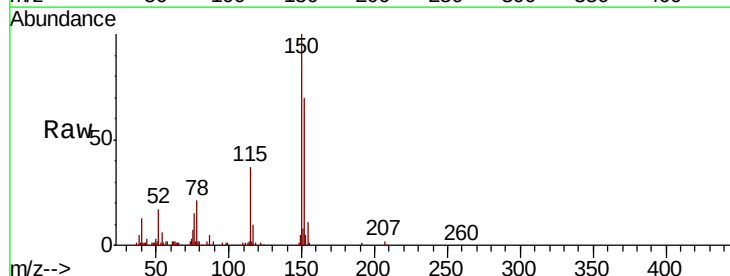
RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

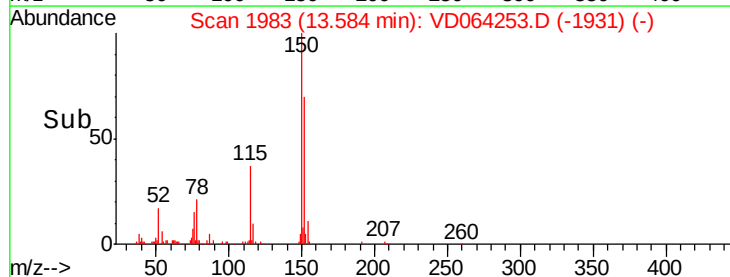
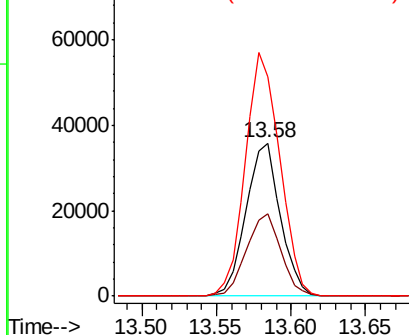
Lab File: VD064253.D

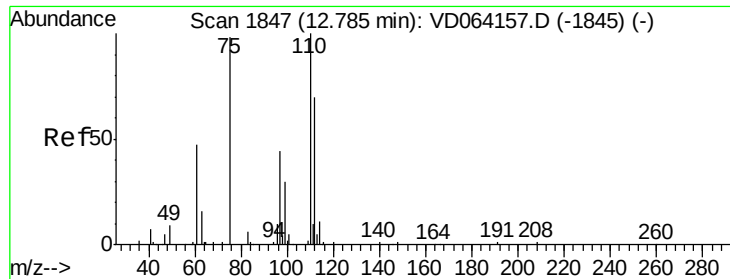
Acq: 16 Nov 2019 05:23

Tgt Ion:	152	Resp:	56553
Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.4	82.2
150	161.1	0.0	351.6



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

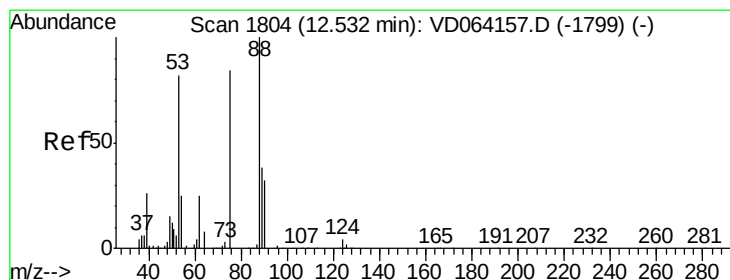
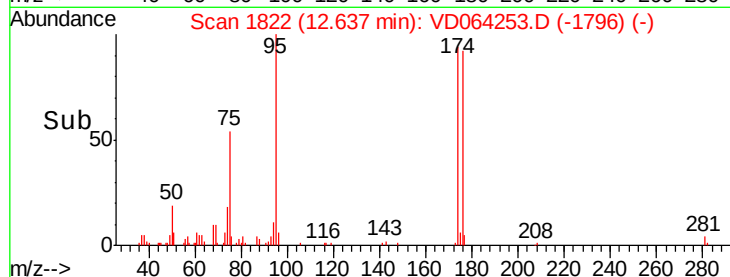
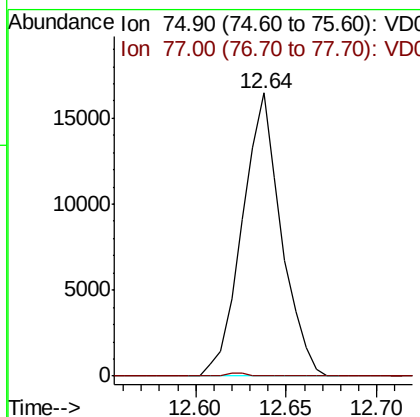
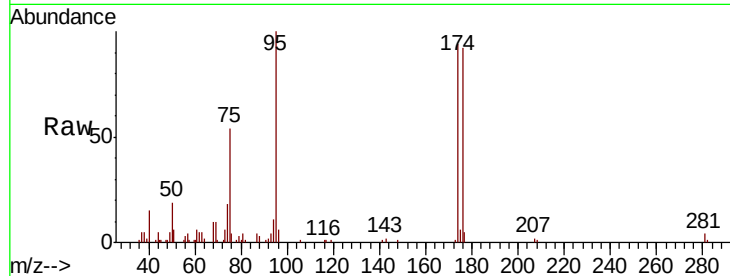




#76
 1,2,3-Trichloropropane
 Concen: 53.908 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064253.D
 Acq: 16 Nov 2019 05:23

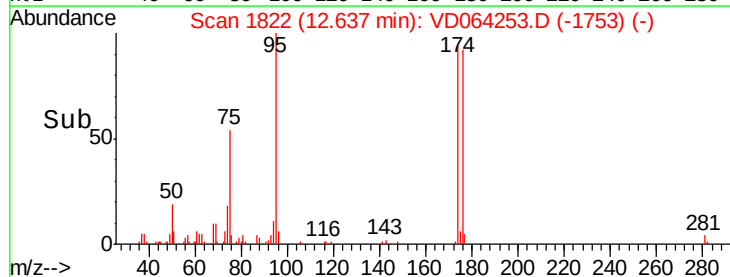
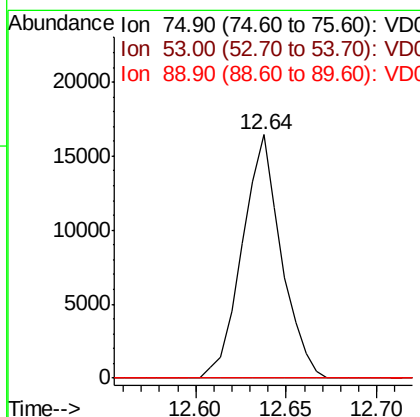
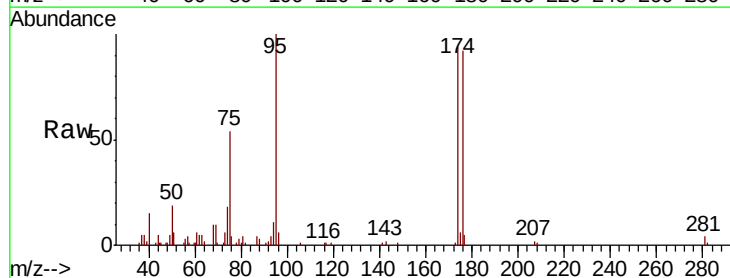
Instrument :
 MSVOA_D
 ClientSampleId :

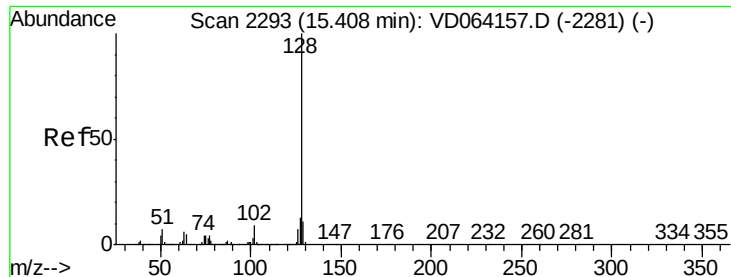
Tot Ion: 75 Resp: 24556
 Ion Ratio Lower Upper
 75 100
 77 0.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.082 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD064253.D
 Acq: 16 Nov 2019 05:23

Tgt Ion: 75 Resp: 24556
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.4 119.0#
 89 0.0 36.6 55.0#

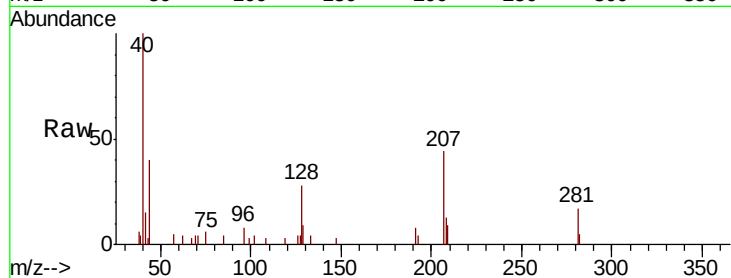




#95
Naphthalene
Concen: 1.284 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD064253.D
Acq: 16 Nov 2019 05:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.6	10.5	15.7#
129	16.1	8.6	13.0#



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

