

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062843.D
 Acq On : 24 Jun 2019 16:31
 Operator : VA/AP
 Sample : K3499-05
 Misc : 5.43q/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-5(10-11)

Quant Time: Jun 25 05:04:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	735298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1016063	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	850467	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	487059	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	456461	57.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.22%	
35) Dibromofluoromethane	6.93	113	500265	58.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.78%	
50) Toluene-d8	10.41	98	1000672	53.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.34%	
62) 4-Bromofluorobenzene	13.55	95	464068	54.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.46%	

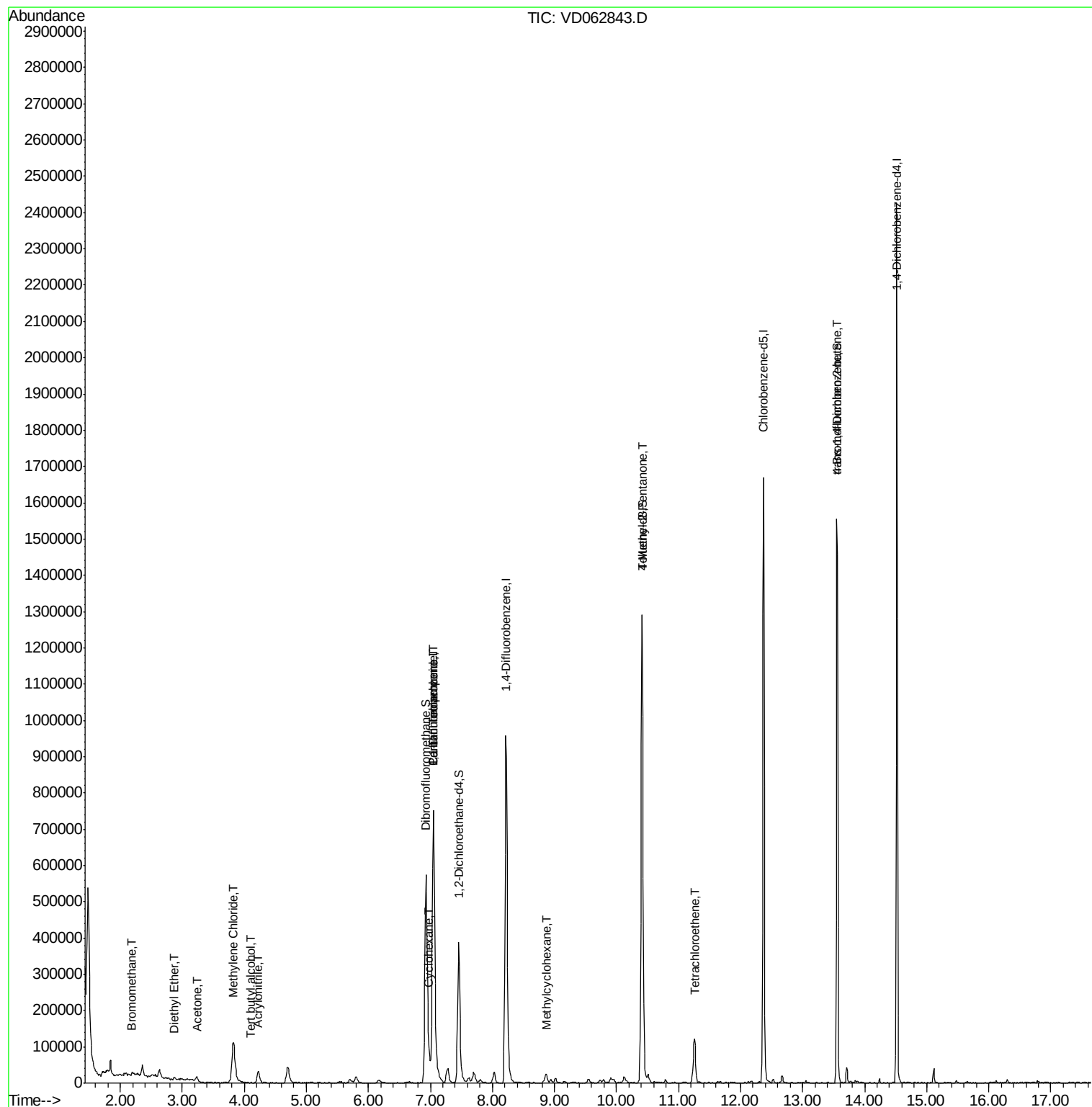
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	3325	1.001	ug/l #	13
8) Diethyl Ether	2.88	74	2143	1.175	ug/l	83
11) Tert butyl alcohol	4.10	59	445	1.222	ug/l #	77
15) Acrylonitrile	4.21	53	934	1.092	ug/l #	43
16) Acetone	3.23	43	30337	12.059	ug/l #	92
20) Methylene Chloride	3.83	84	53261	8.738	ug/l	97
31) Cyclohexane	6.98	56	11939	1.591	ug/l #	62
36) 1,1-Dichloropropene	7.05	75	53786	5.592	ug/l #	57
37) Ethyl Acetate	6.17	43	211	Below Cal	#	69
38) Carbon Tetrachloride	7.06	117	75588	5.225	ug/l #	14
39) Methylcyclohexane	8.88	83	11951	1.412	ug/l #	89
51) 4-Methyl-2-Pentanone	10.41	43	7745	2.166	ug/l #	1
64) Tetrachloroethene	11.26	164	33917	4.846	ug/l #	89
81) trans-1,4-Dichloro-2-buten	13.55	75	220457	149.601	ug/l #	2

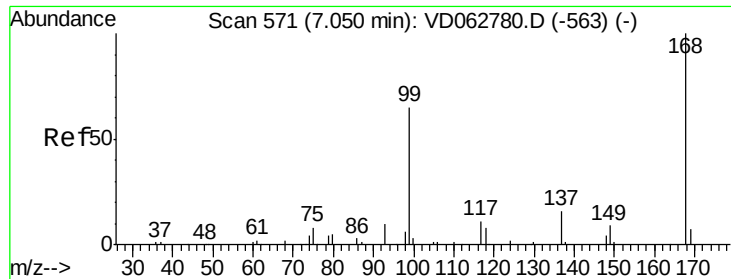
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062419\
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B-5(10-11)

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QLast Update : Thu Jun 20 01:50:56 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

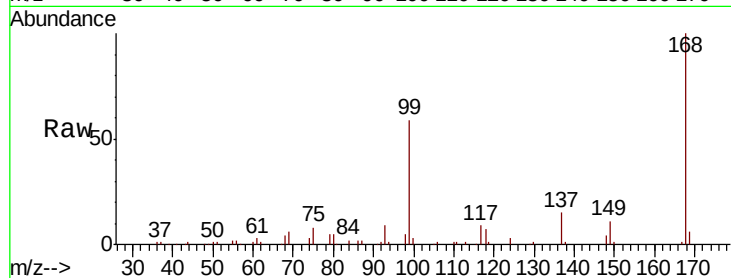
B-5(10-11)

Tot Ion:168 Resp: 735298

Ion Ratio Lower Upper

168 100

99 59.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

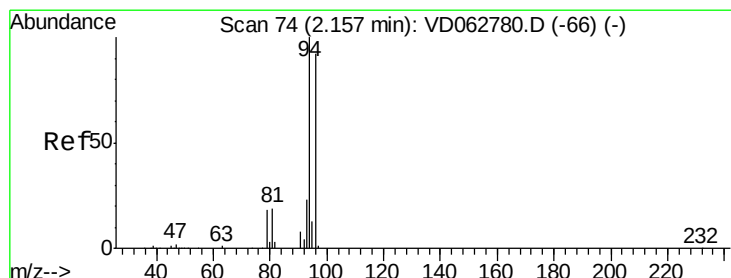
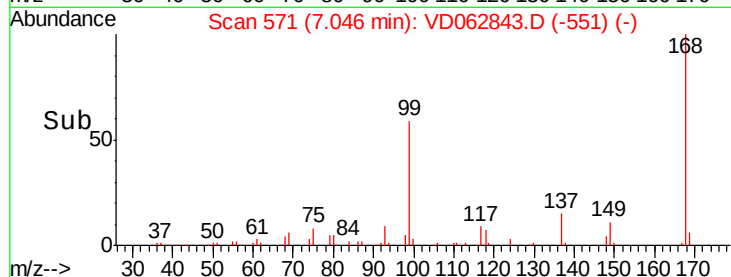
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#5

Bromomethane

Concen: 1.001 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

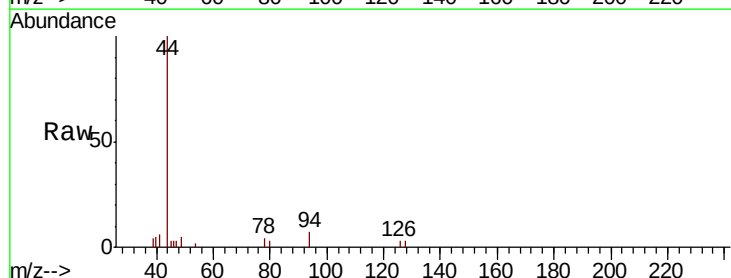
Tgt Ion: 94 Resp: 3325

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

93 0.0 18.2 27.4#



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

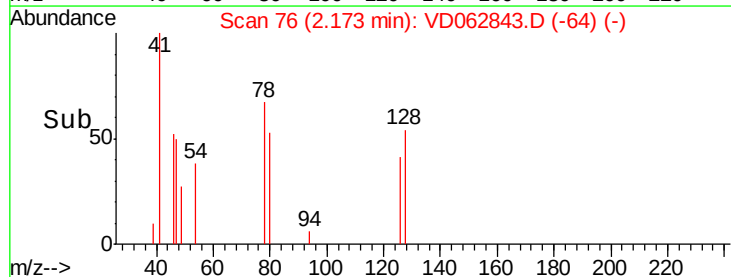
1000

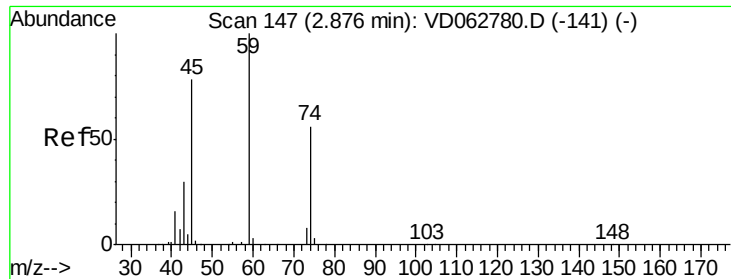
500

0

2.10 2.15 2.20

Time-->





#8

Diethyl Ether

Concen: 1.175 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.01 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

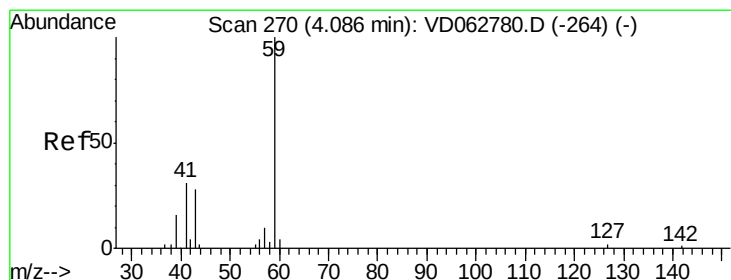
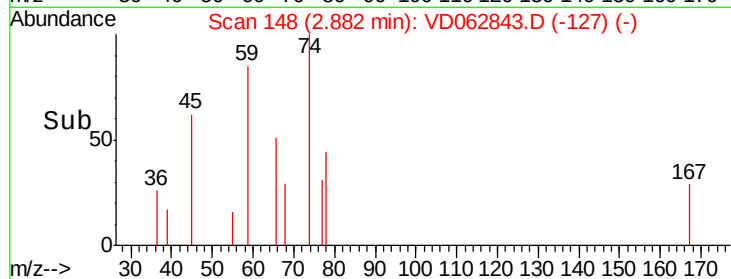
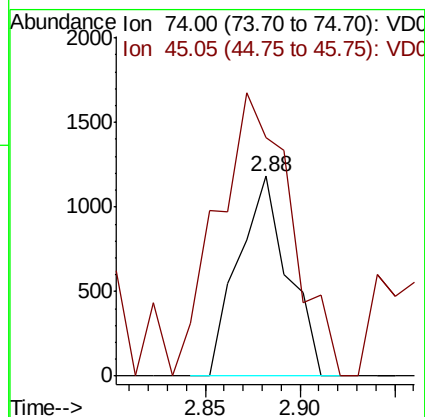
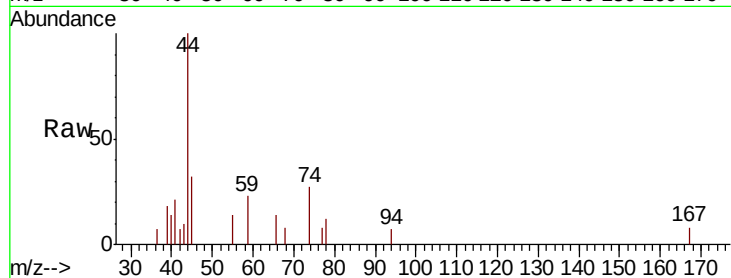
B-5(10-11)

Tot Ion: 74 Resp: 2143

Ion Ratio Lower Upper

74 100

45 119.8 70.2 210.6



#11

Tert butyl alcohol

Concen: 1.222 ug/l

RT: 4.10 min Scan# 272

Delta R.T. 0.02 min

Lab File: VD062843.D

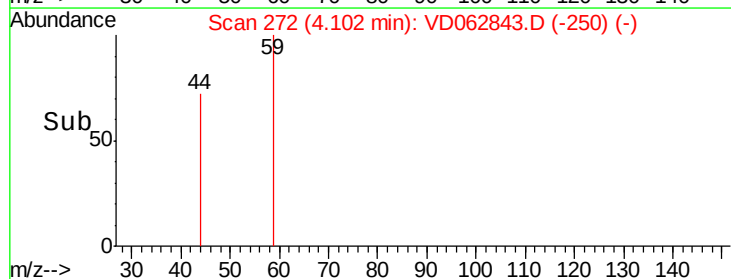
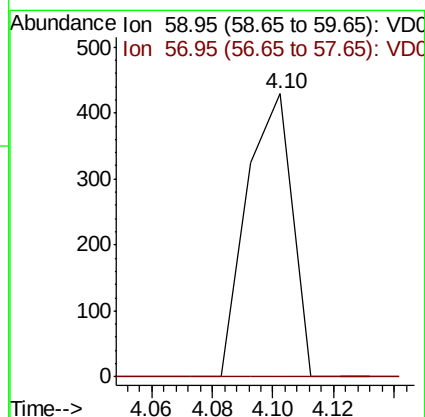
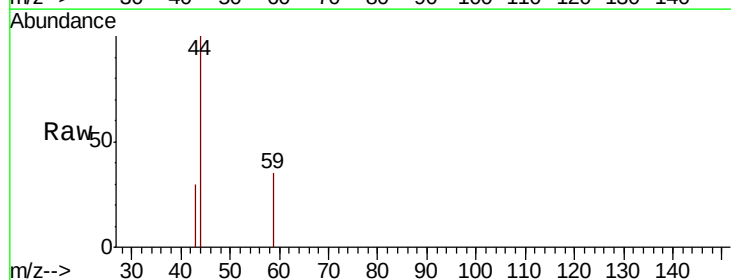
Acq: 24 Jun 2019 16:31

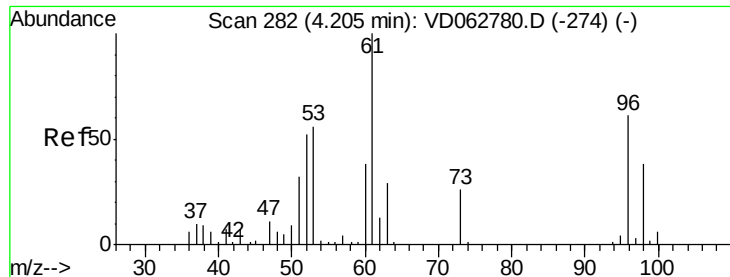
Tgt Ion: 59 Resp: 445

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#





#15

Acrylonitrile

Concen: 1.092 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

Instrument :

MSVOA_D

ClientSampleID :

B-5(10-11)

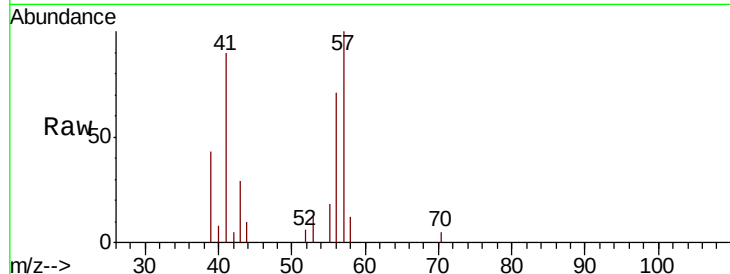
Tot Ion: 53 Resp: 934

Ion Ratio Lower Upper

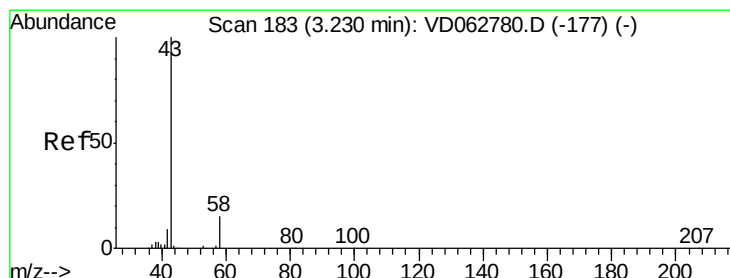
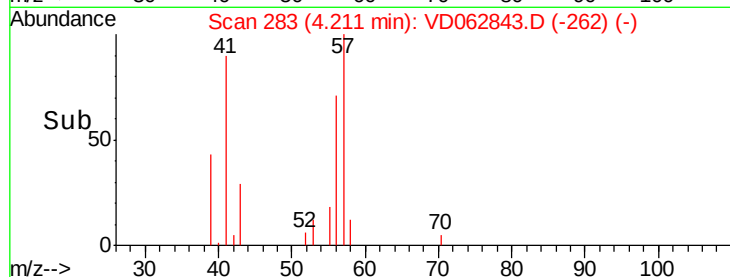
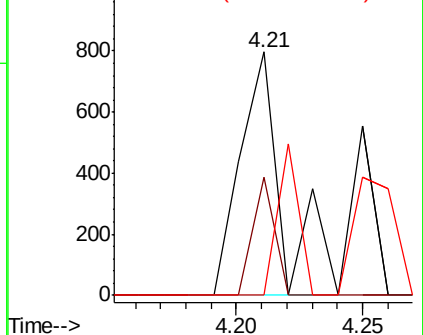
53 100

52 48.7 73.3 109.9#

51 0.0 44.8 67.2#



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: 12.059 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD062843.D

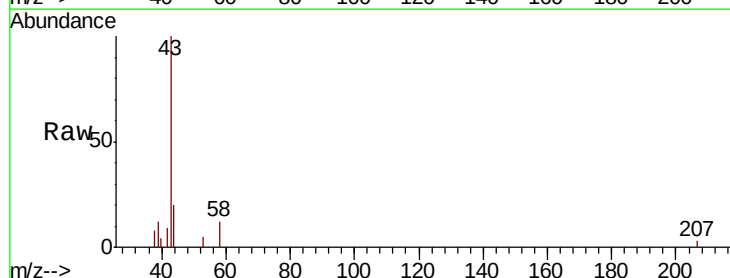
Acq: 24 Jun 2019 16:31

Tgt Ion: 43 Resp: 30337

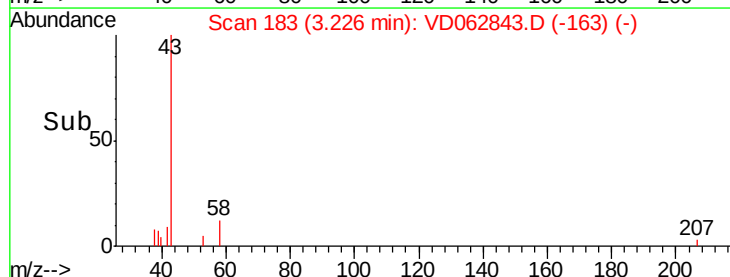
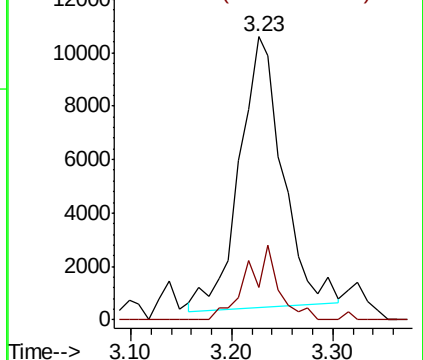
Ion Ratio Lower Upper

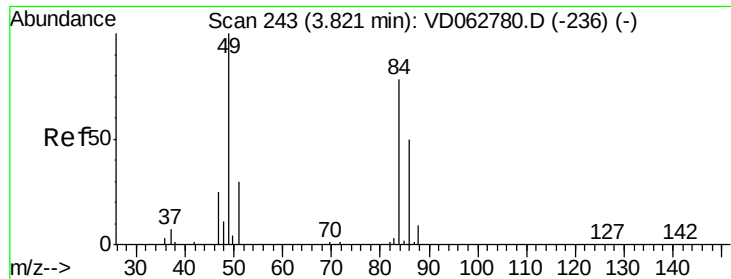
43 100

58 11.7 11.9 17.9#



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

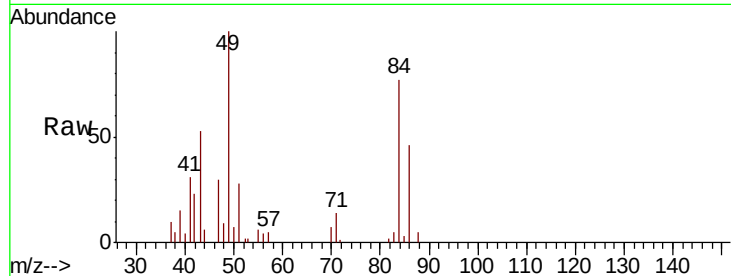




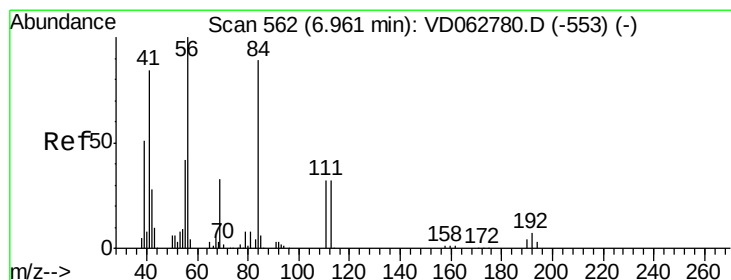
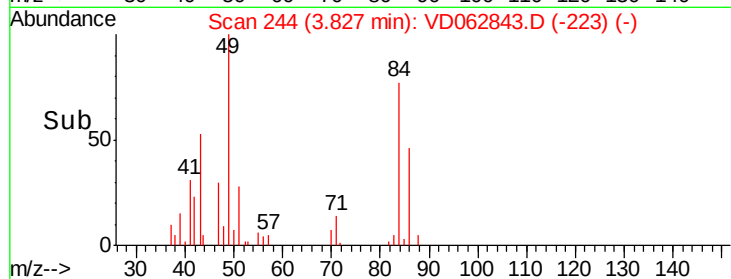
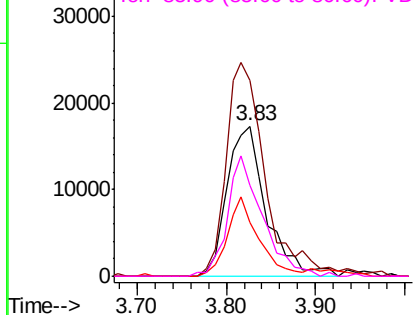
#20
Methylene Chloride
Concen: 8.738 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD062843.D
Acq: 24 Jun 2019 16:31

Instrument :
MSVOA_D
ClientSampleId :
B-5(10-11)

Tot Ion:	84	Resp:	53261
Ion	Ratio	Lower	Upper
84	100		
49	130.4	102.9	154.3
51	36.1	31.2	46.8
86	60.5	51.4	77.2

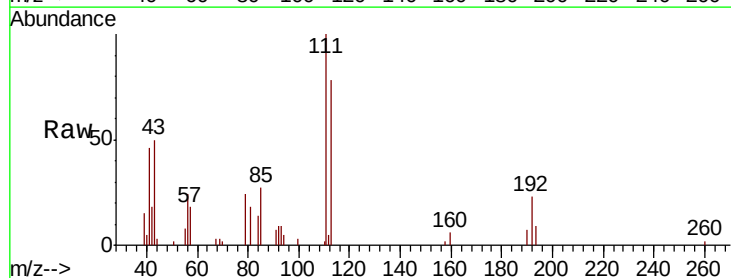


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

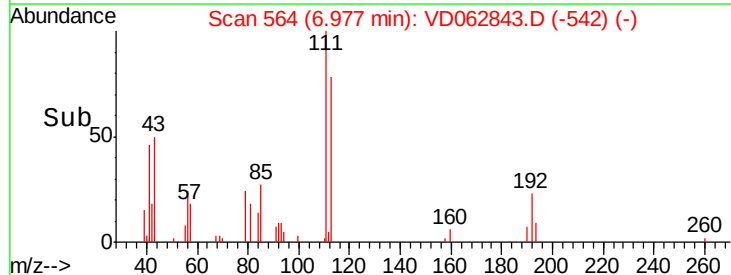
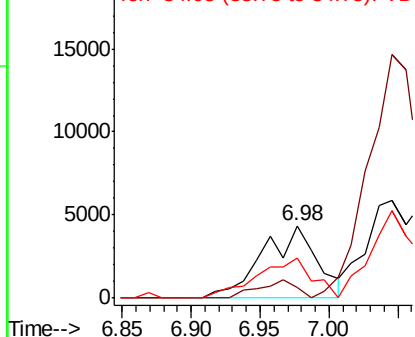


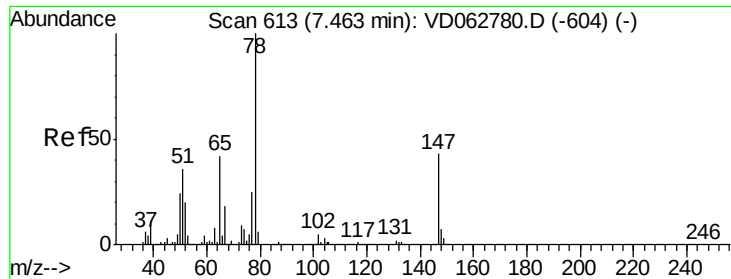
#31
Cyclohexane
Concen: 1.591 ug/l
RT: 6.98 min Scan# 564
Delta R.T. 0.02 min
Lab File: VD062843.D
Acq: 24 Jun 2019 16:31

Tgt Ion:	56	Resp:	11939
Ion	Ratio	Lower	Upper
56	100		
69	14.2	26.6	39.8#
84	55.6	75.5	113.3#



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

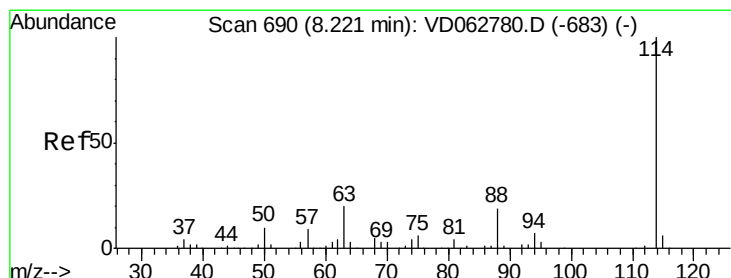
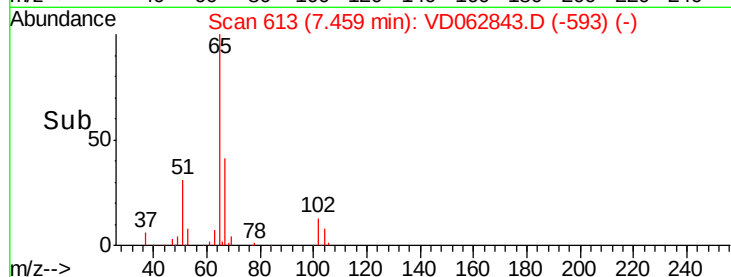
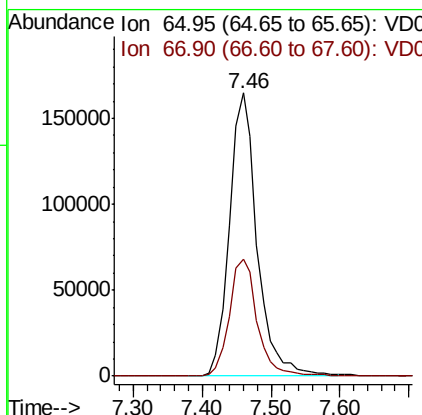
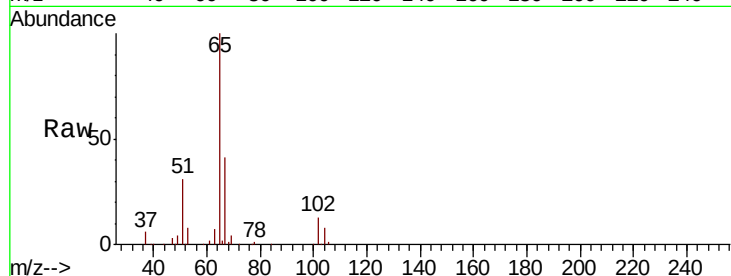




#33
 1,2-Dichloroethane-d4
 Concen: 57.111 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VD062843.D
 Acq: 24 Jun 2019 16:31

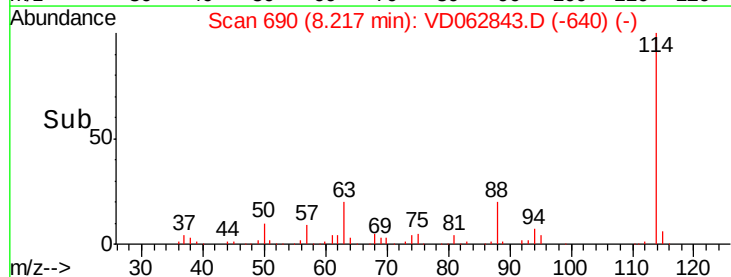
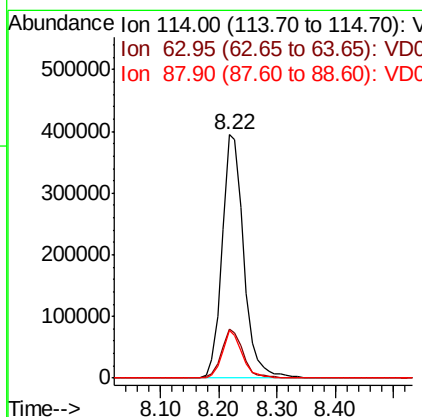
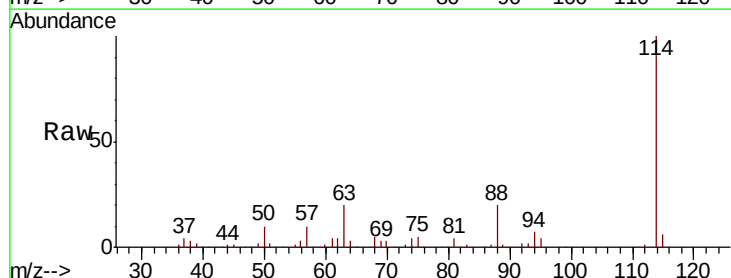
Instrument :
 MSVOA_D
 ClientSampleId :
 B-5(10-11)

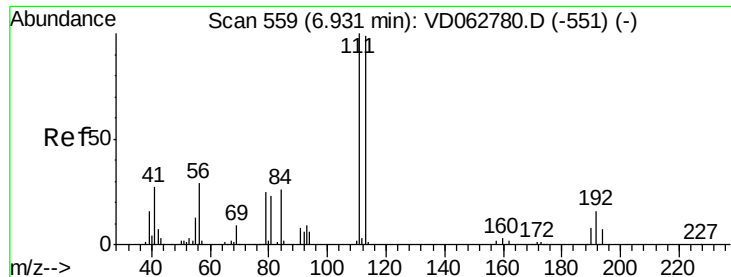
Tot Ion: 65 Resp: 456461
 Ion Ratio Lower Upper
 65 100
 67 41.3 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD062843.D
 Acq: 24 Jun 2019 16:31

Tgt Ion: 114 Resp: 1016063
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 19.7 0.0 38.8





#35

Dibromofluoromethane

Concen: 58.392 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

B-5(10-11)

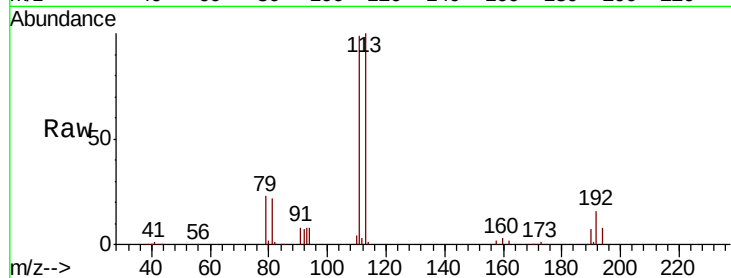
Tot Ion:113 Resp: 500265

Ion Ratio Lower Upper

113 100

111 99.1 81.2 121.8

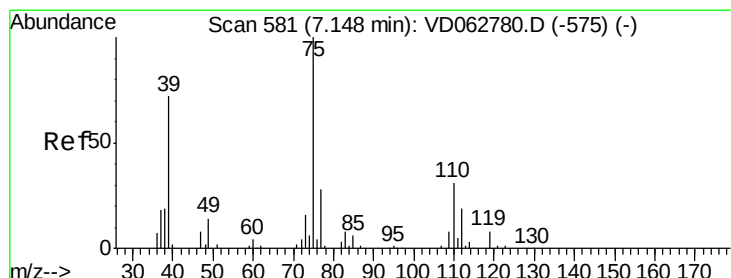
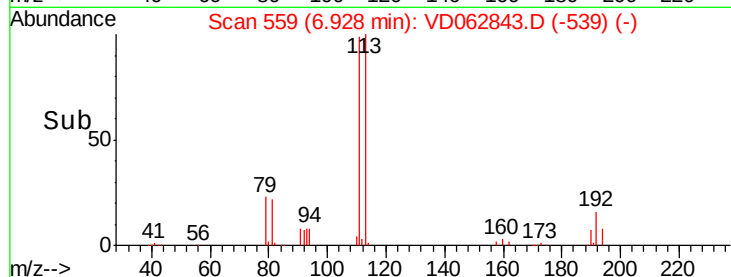
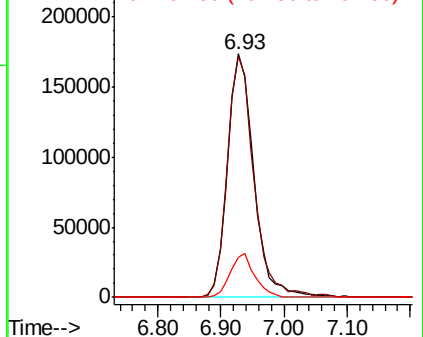
192 16.4 12.9 19.3



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: 5.592 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

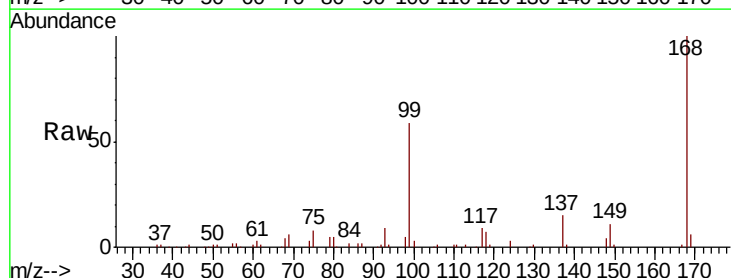
Tgt Ion: 75 Resp: 53786

Ion Ratio Lower Upper

75 100

110 11.5 15.0 45.1#

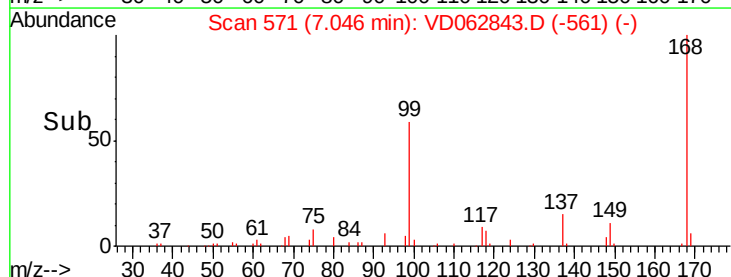
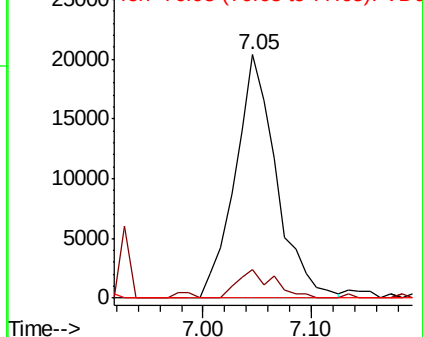
77 0.0 22.2 33.2#

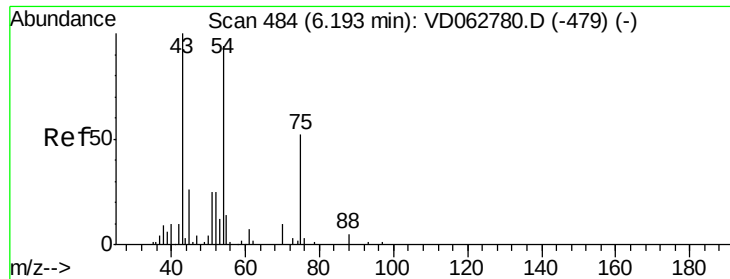


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.17 min Scan# 482

Delta R.T. -0.02 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

Instrument :

MSVOA_D

ClientSampled :

B-5(10-11)

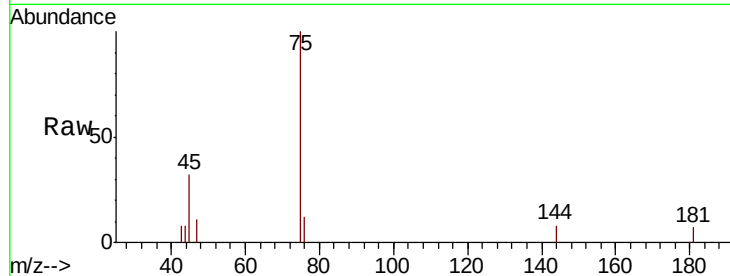
Tot Ion: 43 Resp: 211

Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

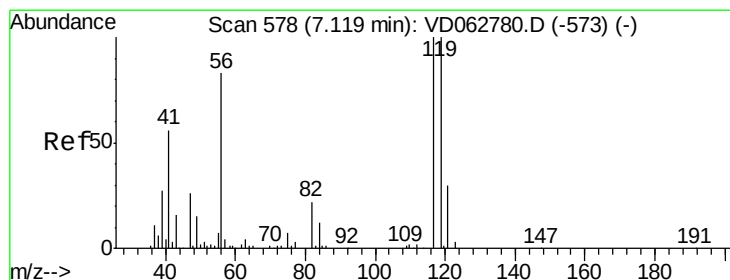
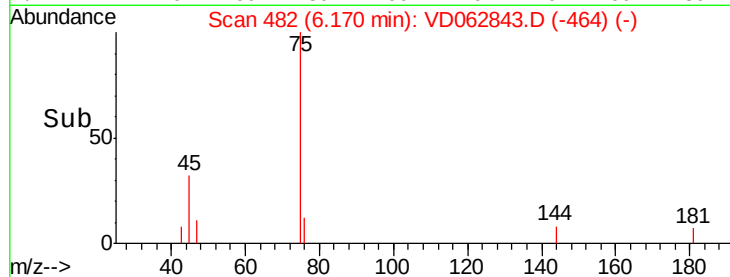
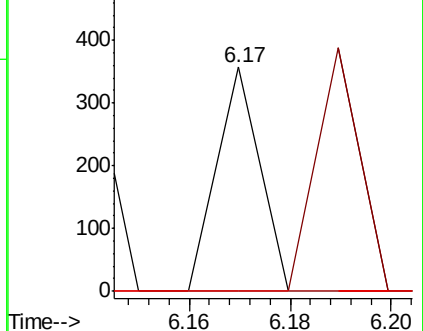
70 0.0 6.4 9.6#



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: 5.225 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

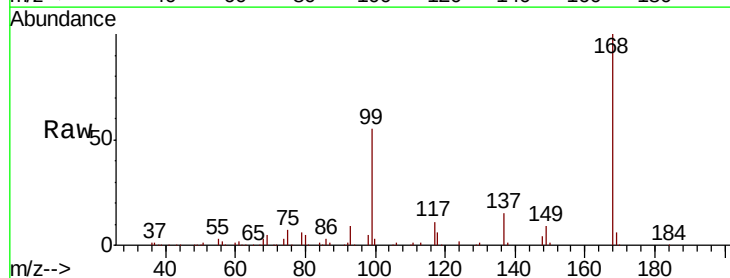
Tgt Ion: 117 Resp: 75588

Ion Ratio Lower Upper

117 100

119 1.7 75.4 113.2#

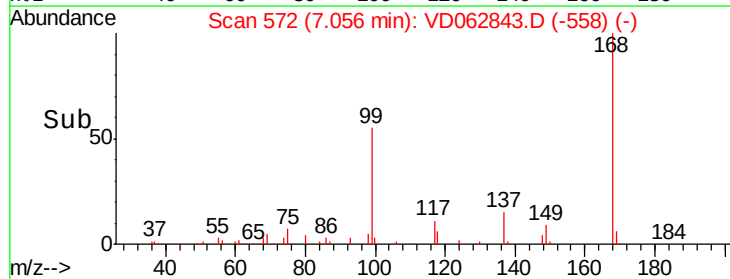
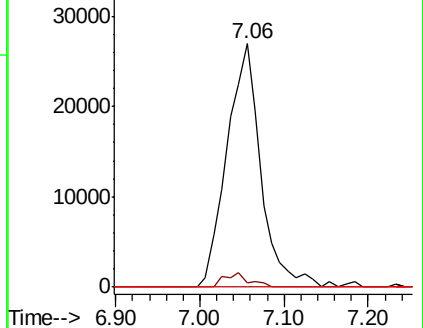
121 0.0 22.3 33.5#

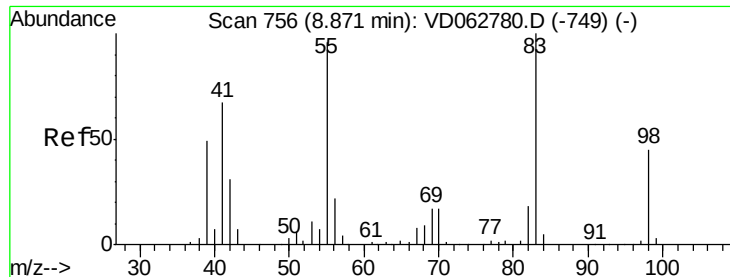


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

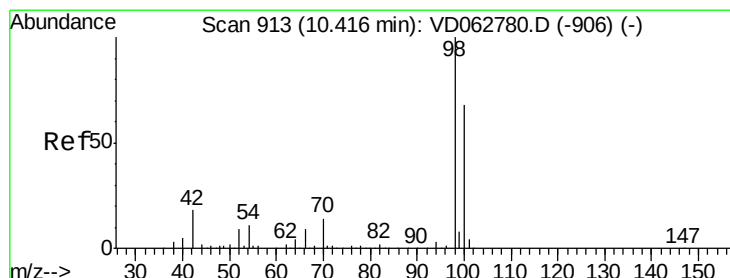
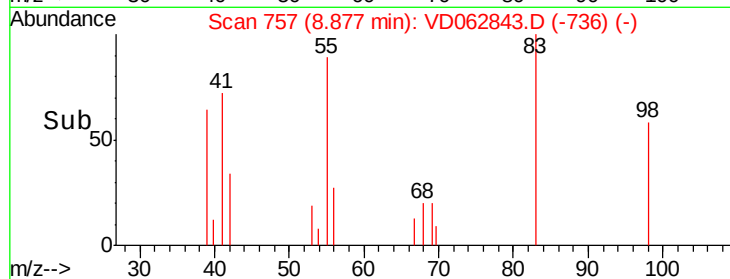
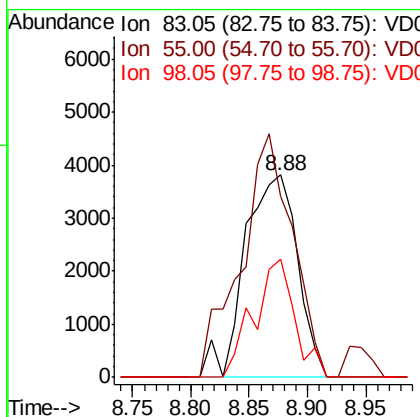
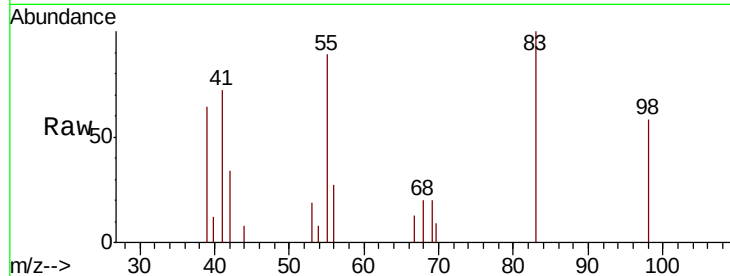




#39
Methylvlcyclohexane
Concen: 1.412 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.01 min
Lab File: VD062843.D
Acq: 24 Jun 2019 16:31

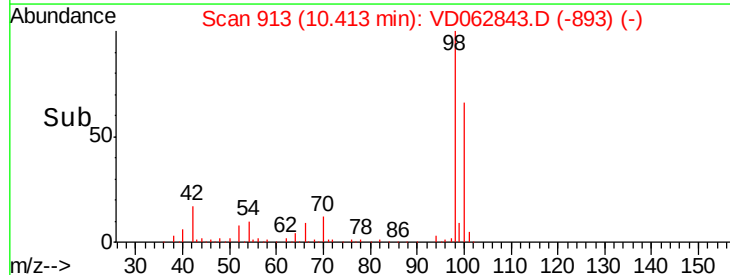
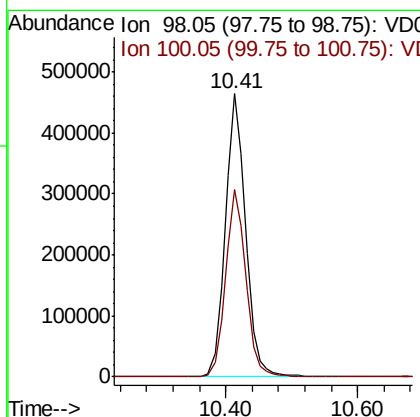
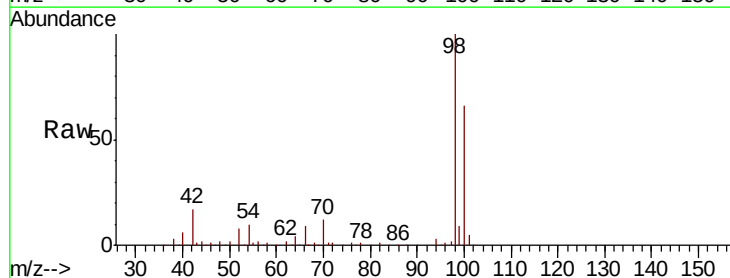
Instrument :
MSVOA_D
ClientSampleId :
B-5(10-11)

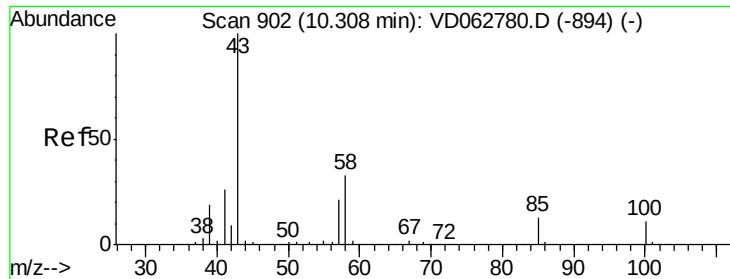
Tot Ion: 83 Resp: 11951
Ion Ratio Lower Upper
83 100
55 89.4 76.6 115.0
98 58.5 35.7 53.5#



#50
Toluene-d8
Concen: 53.665 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062843.D
Acq: 24 Jun 2019 16:31

Tgt Ion: 98 Resp: 1000672
Ion Ratio Lower Upper
98 100
100 66.2 54.7 82.1





#51

4-Methyl-2-Pentanone

Concen: 2.166 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.10 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

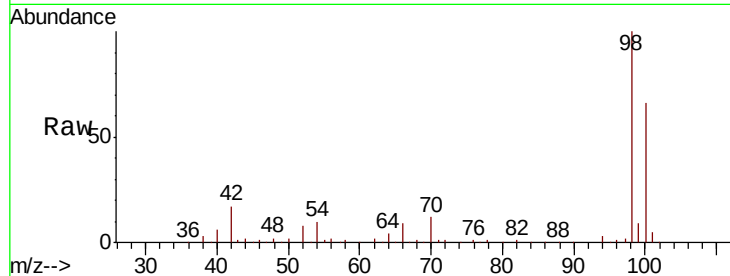
B-5(10-11)

Tot Ion: 43 Resp: 7745

Ion Ratio Lower Upper

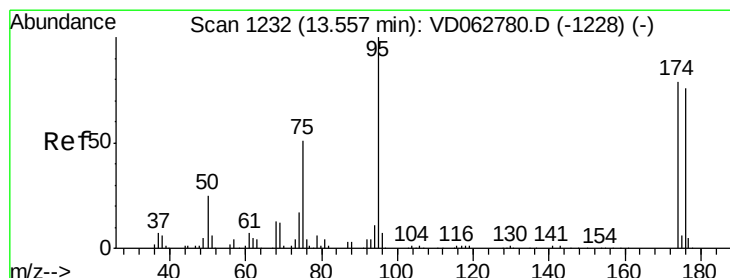
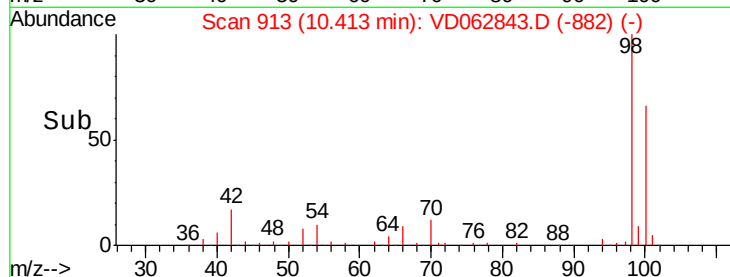
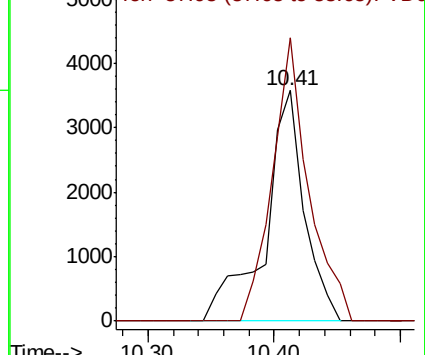
43 100

58 122.9 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VD062780.D (-894) (-)

Ion 57.95 (57.65 to 58.65): VD062780.D (-894) (-)



#62

4-Bromofluorobenzene

Concen: 54.733 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062843.D

Acq: 24 Jun 2019 16:31

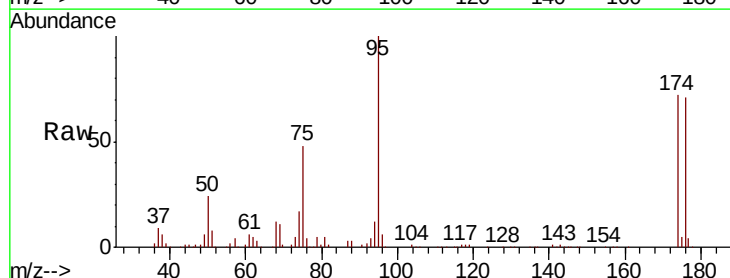
Tgt Ion: 95 Resp: 464068

Ion Ratio Lower Upper

95 100

174 72.0 0.0 158.0

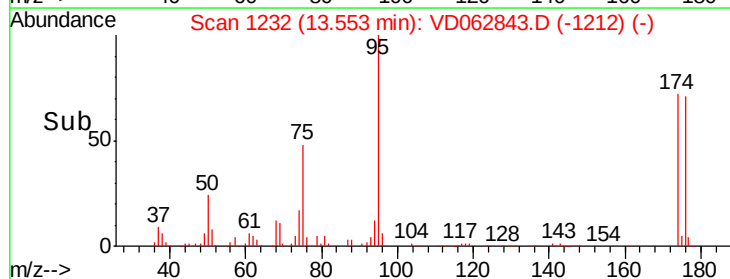
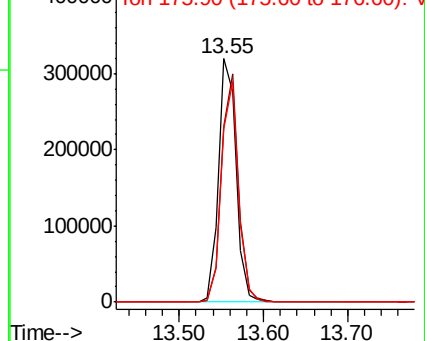
176 71.1 0.0 151.6

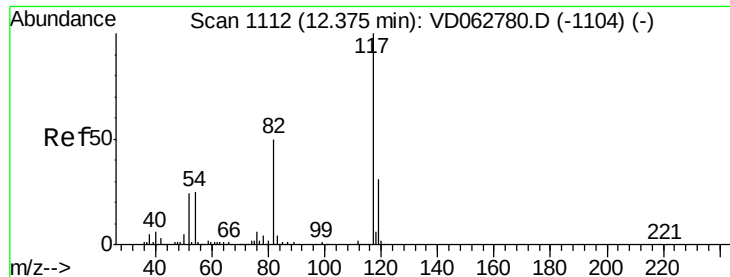


Abundance Ion 95.00 (94.70 to 95.70): VD062780.D (-1228) (-)

Ion 173.90 (173.60 to 174.60): VD062780.D (-1228) (-)

Ion 175.90 (175.60 to 176.60): VD062780.D (-1228) (-)

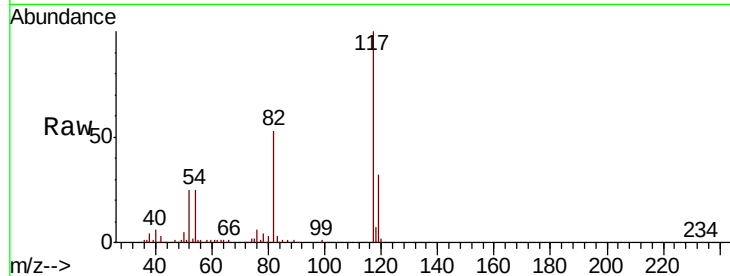




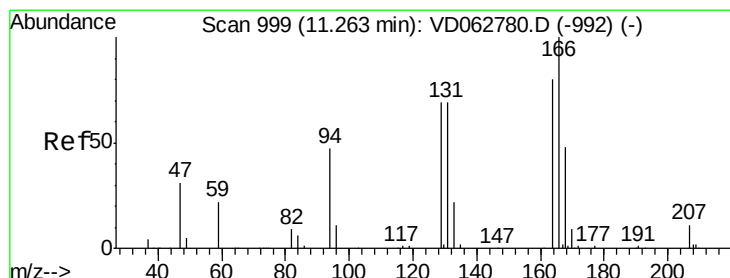
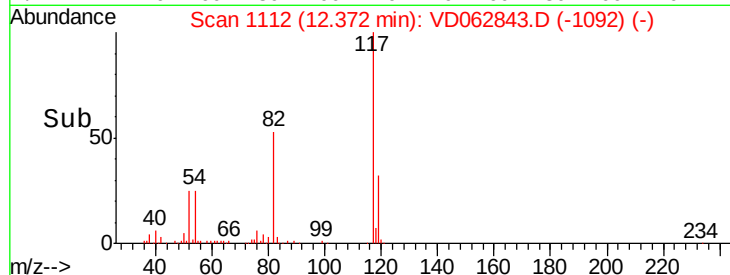
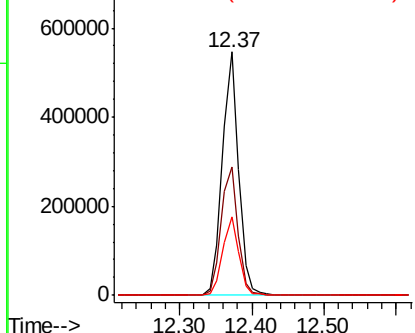
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062843.D
Acq: 24 Jun 2019 16:31

Instrument :
MSVOA_D
ClientSampleId :
B-5(10-11)

Tot Ion:117 Resp: 850467
Ion Ratio Lower Upper
117 100
82 52.9 40.4 60.6
119 32.3 25.2 37.8

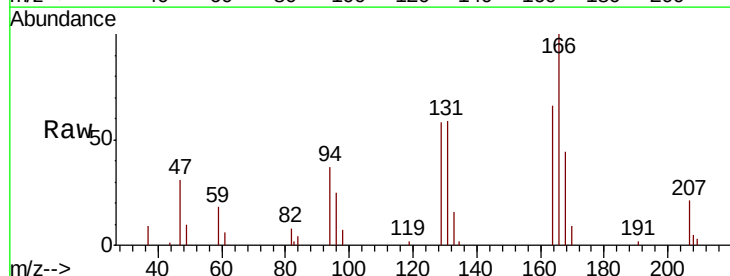


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

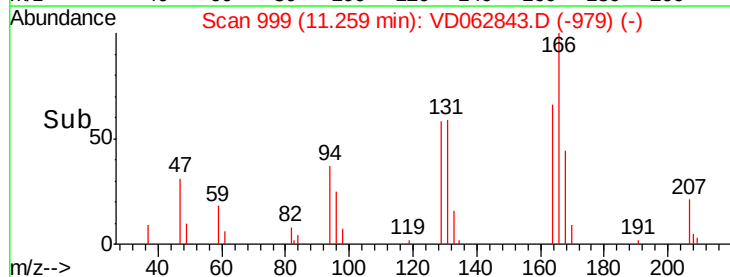
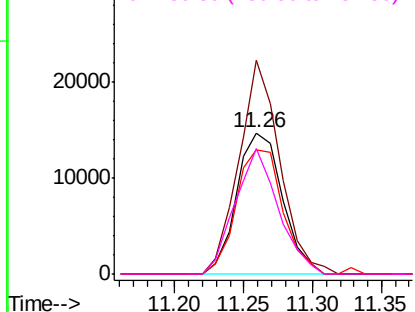


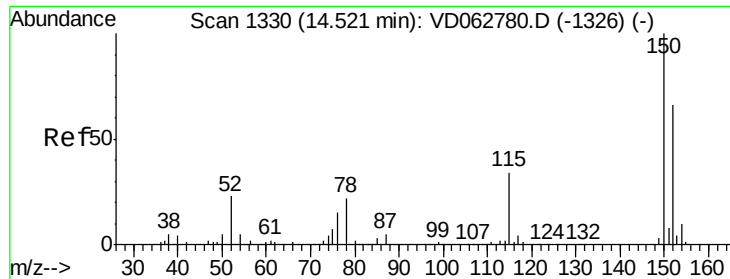
#64
Tetrachloroethene
Concen: 4.846 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD062843.D
Acq: 24 Jun 2019 16:31

Tgt Ion:164 Resp: 33917
Ion Ratio Lower Upper
164 100
166 151.4 100.6 150.8#
129 88.4 69.4 104.0
131 88.8 69.3 103.9



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

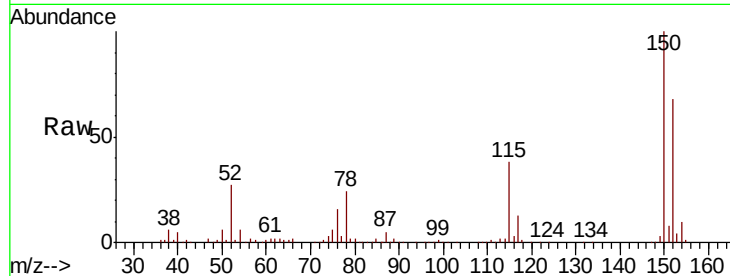




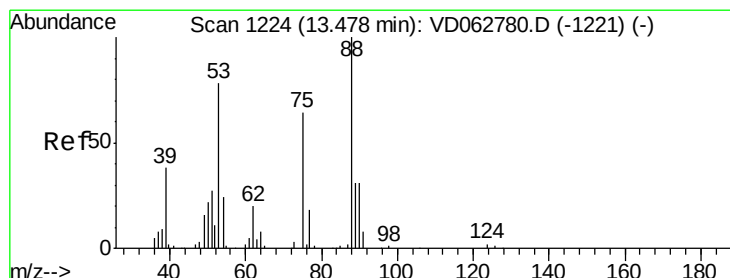
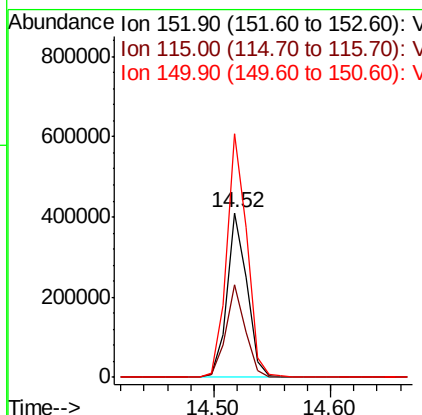
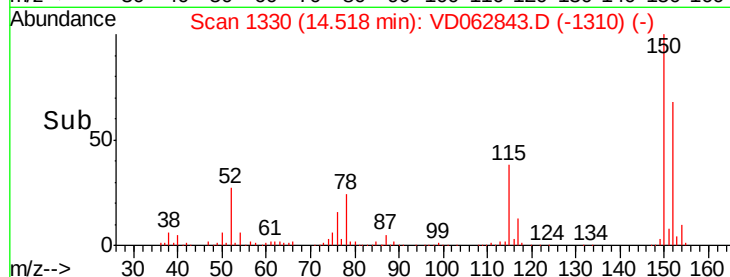
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD062843.D
 Acq: 24 Jun 2019 16:31

Instrument :
 MSVOA_D
 ClientSampleId :
 B-5(10-11)

Tot Ion:152 Resp: 487059
 Ion Ratio Lower Upper
 152 100
 115 56.4 29.2 87.6
 150 147.9 0.0 305.8

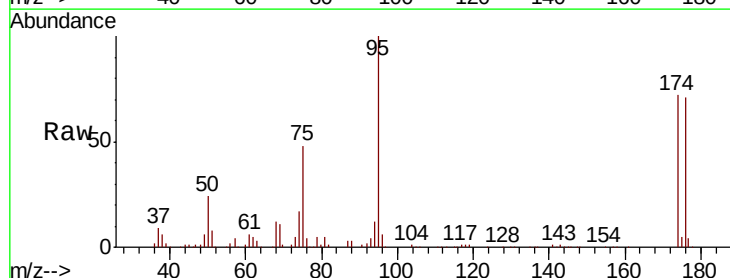


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 149.601 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD062843.D
 Acq: 24 Jun 2019 16:31

Tgt Ion: 75 Resp: 220457
 Ion Ratio Lower Upper
 75 100
 53 0.0 97.8 146.8#
 89 0.0 39.4 59.2#



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

