

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062841.D
 Acq On : 24 Jun 2019 15:37
 Operator : VA/AP
 Sample : K3499-02
 Misc : 4.77g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(11-12)

Quant Time: Jun 25 05:04:01 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	7.06	168	46245	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	75075	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	73487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	42909	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	47023	93.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	187.10%	
35) Dibromofluoromethane	6.93	113	34465	54.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.88%	
50) Toluene-d8	10.42	98	61648	44.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.50%	
62) 4-Bromofluorobenzene	13.56	95	36109	57.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	115.28%	

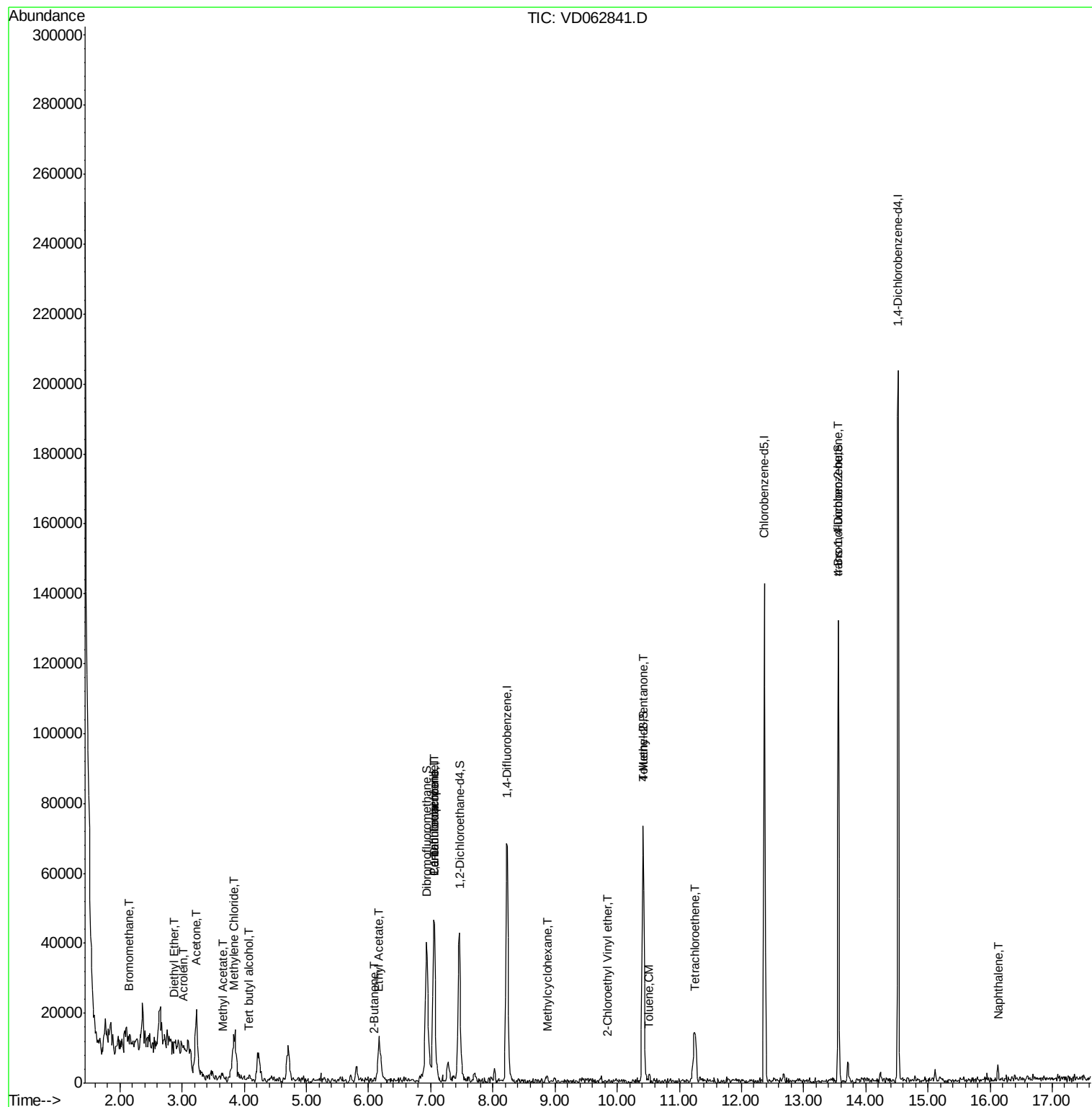
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	1320	6.317	ug/l #	13
8) Diethyl Ether	2.87	74	212	1.848	ug/l	95
11) Tert butyl alcohol	4.07	59	839	36.647	ug/l #	77
13) Acrolein	3.02	56	266	11.381	ug/l	100
16) Acetone	3.23	43	39299	389.419	ug/l	96
18) Methyl Acetate	3.67	43	1648	10.860	ug/l #	58
20) Methylene Chloride	3.82	84	1400	3.652	ug/l #	72
25) 2-Butanone	6.09	43	671	7.137	ug/l #	64
36) 1,1-Dichloropropene	7.05	75	3389	4.769	ug/l #	46
37) Ethyl Acetate	6.17	43	1039	2.433	ug/l #	69
38) Carbon Tetrachloride	7.05	117	5794	5.421	ug/l #	13
39) Methylcyclohexane	8.87	83	635	1.015	ug/l #	11
51) 4-Methyl-2-Pentanone	10.41	43	448	1.696	ug/l #	41
52) Toluene	10.52	92	1087	1.134	ug/l #	45
58) 2-Chloroethyl Vinyl ether	9.85	63	198	1.095	ug/l #	47
64) Tetrachloroethene	11.26	164	2493	4.122	ug/l #	65
81) trans-1,4-Dichloro-2-buten	13.56	75	16695	128.597	ug/l #	2
95) Naphthalene	16.13	128	3720	2.994	ug/l #	70

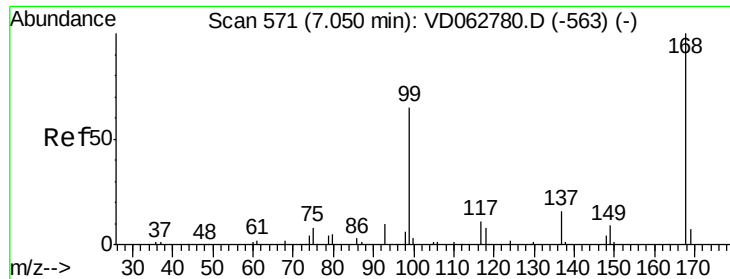
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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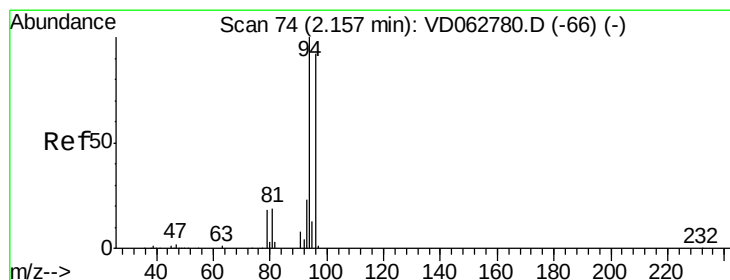
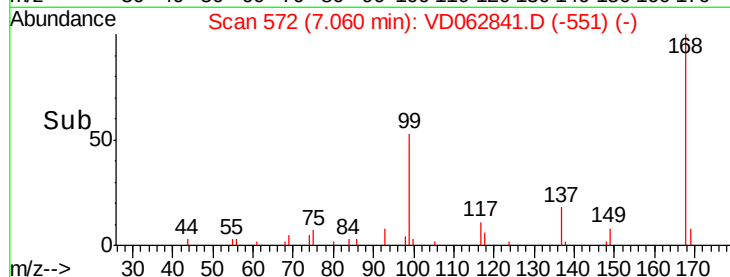
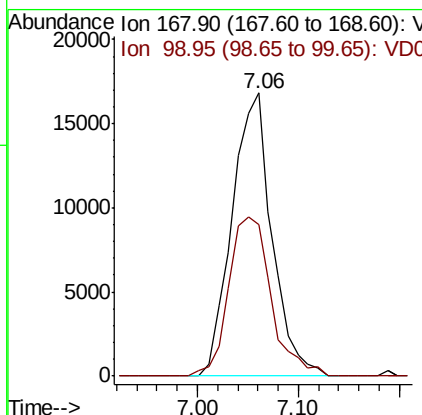
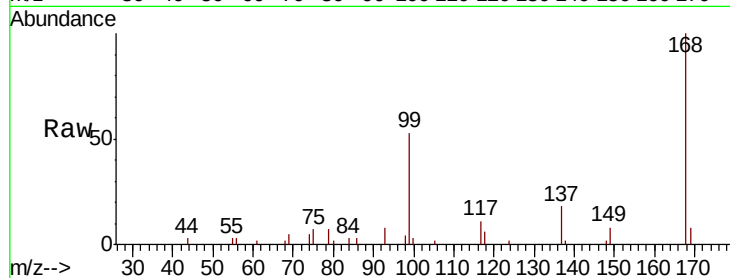




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.01 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

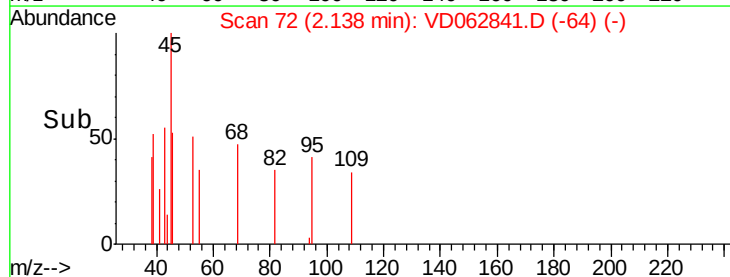
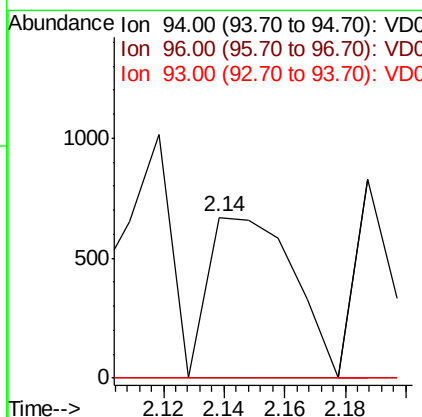
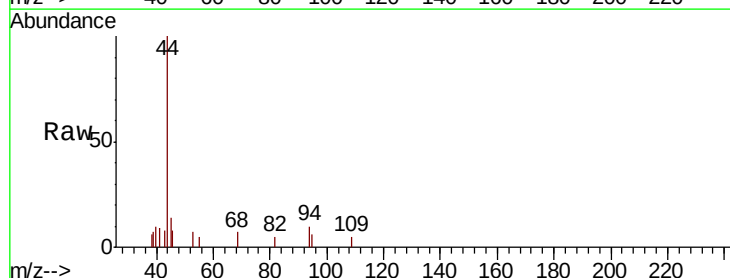
Instrument :
MSVOA_D
ClientSampleId :
B-2(11-12)

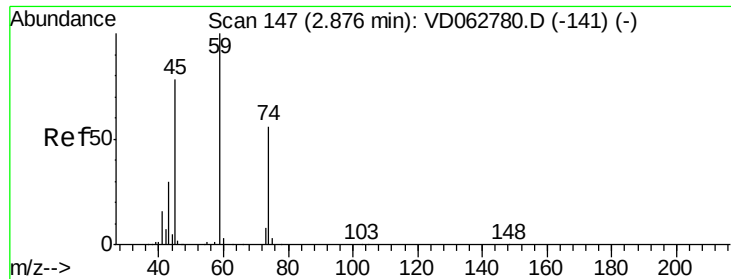
Tot Ion:168 Resp: 46245
Ion Ratio Lower Upper
168 100
99 53.3 53.0 79.6



#5
Bromomethane
Concen: 6.317 ug/l
RT: 2.14 min Scan# 72
Delta R.T. -0.02 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

Tgt Ion: 94 Resp: 1320
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.2#
93 0.0 18.2 27.4#





#8

Diethyl Ether

Concen: 1.848 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.01 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

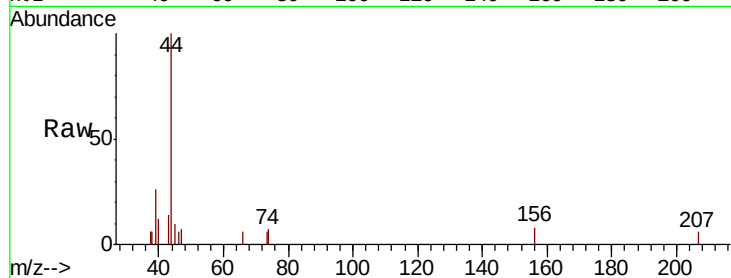
B-2(11-12)

Tot Ion: 74 Resp: 212

Ion Ratio Lower Upper

74 100

45 146.0 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

1500

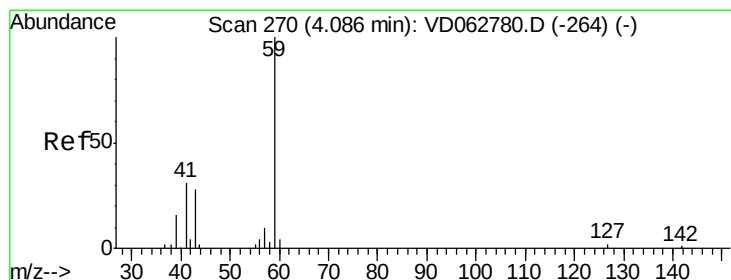
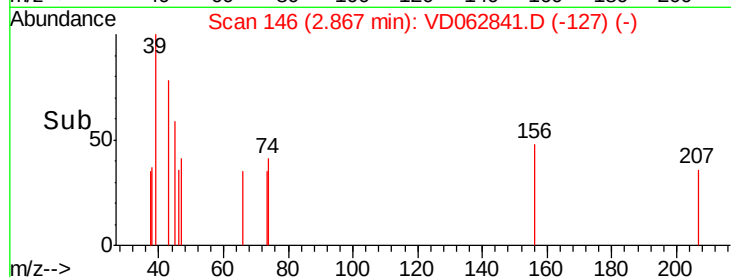
1000

500

2.87

0

Time--> 2.84 2.86 2.88 2.90



#11

Tert butyl alcohol

Concen: 36.647 ug/l

RT: 4.07 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD062841.D

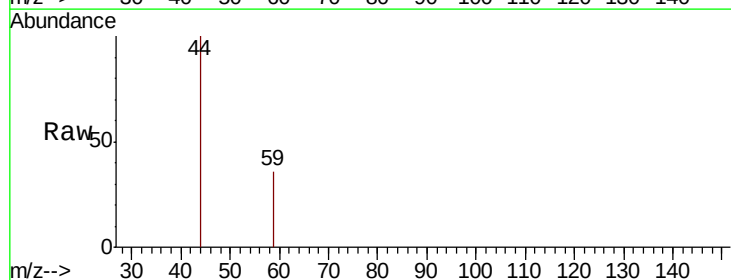
Acq: 24 Jun 2019 15:37

Tgt Ion: 59 Resp: 839

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

400

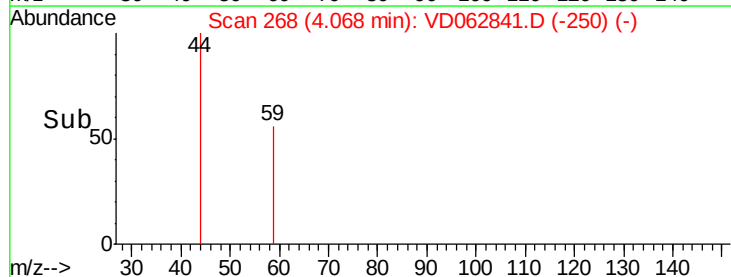
300

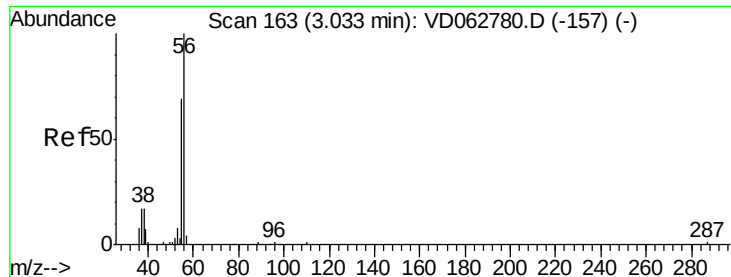
200

100

0

Time--> 4.00 4.05 4.10





#13

Acrolein

Concen: 11.381 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

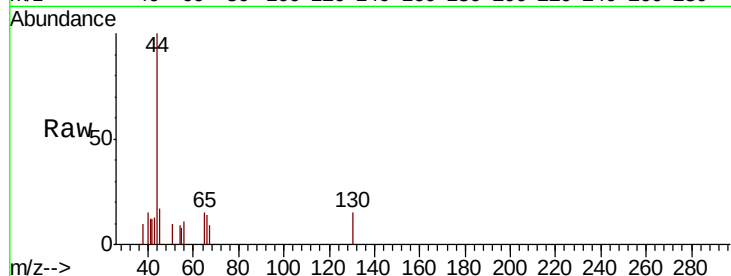
B-2(11-12)

Tot Ion: 56 Resp: 266

Ion Ratio Lower Upper

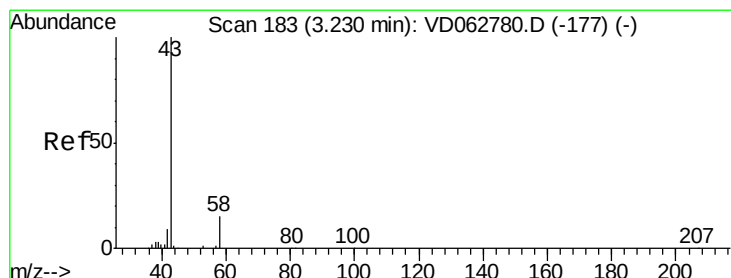
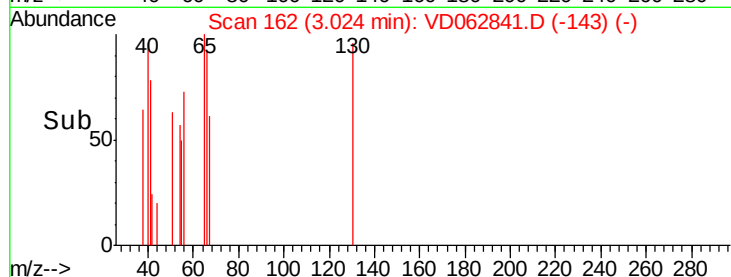
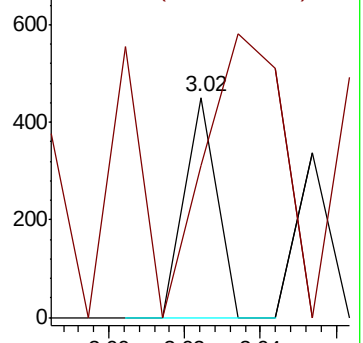
56 100

55 69.2 55.4 83.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 389.419 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062841.D

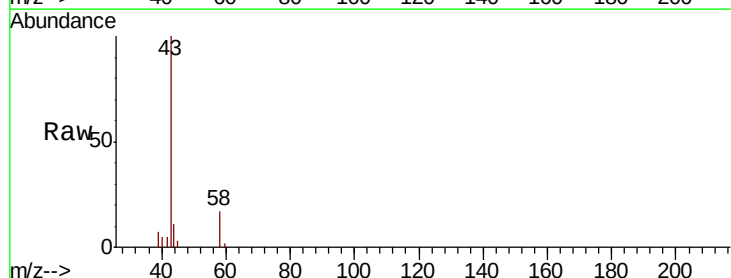
Acq: 24 Jun 2019 15:37

Tgt Ion: 43 Resp: 39299

Ion Ratio Lower Upper

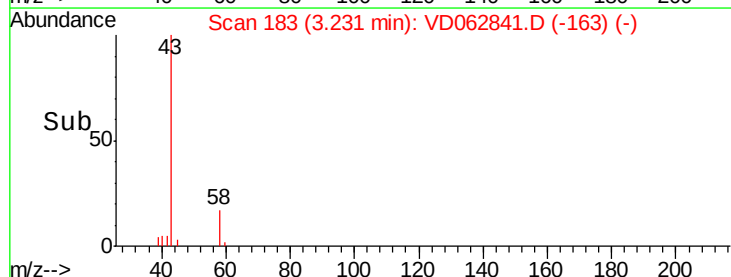
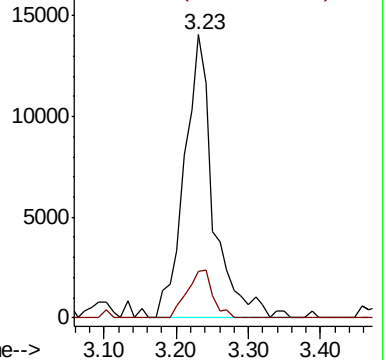
43 100

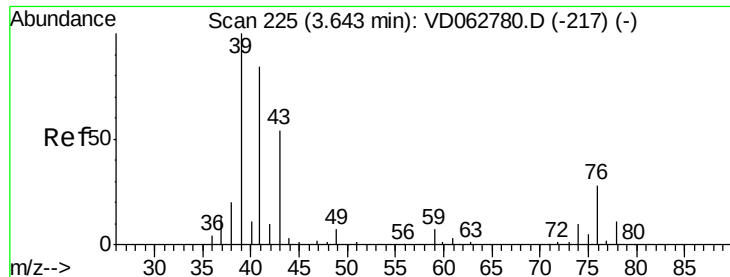
58 16.6 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

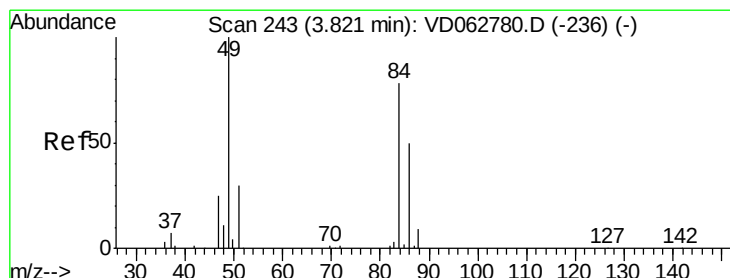
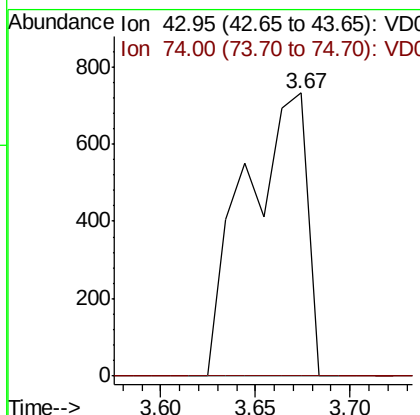
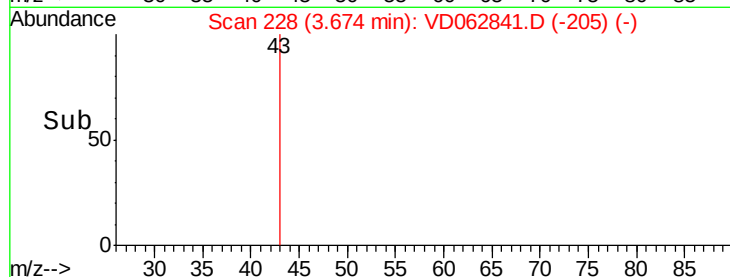
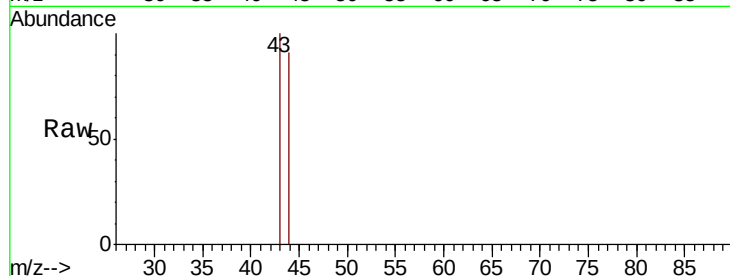




#18
Methvl Acetate
Concen: 10.860 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.03 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

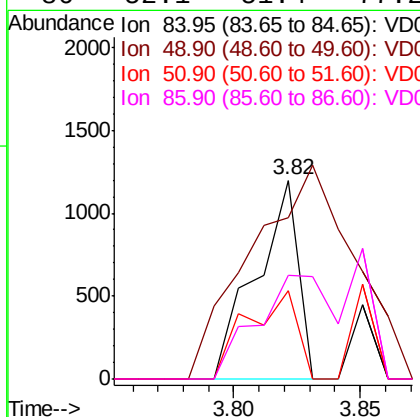
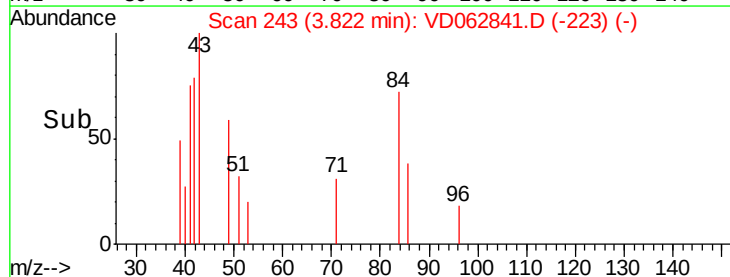
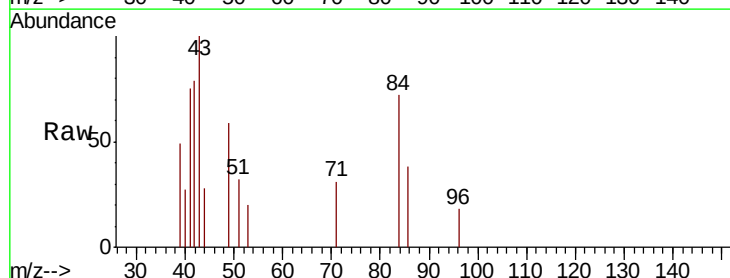
Instrument :
MSVOA_D
ClientSampleId :
B-2(11-12)

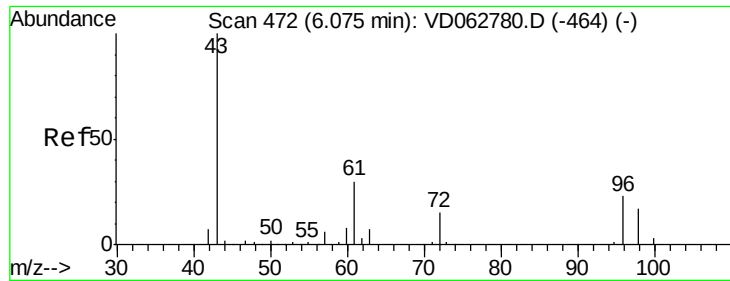
Tot Ion: 43 Resp: 1648
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#



#20
Methylene Chloride
Concen: 3.652 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.00 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

Tgt Ion: 84 Resp: 1400
Ion Ratio Lower Upper
84 100
49 81.5 102.9 154.3#
51 44.3 31.2 46.8
86 52.1 51.4 77.2





#25

2-Butanone

Concen: 7.137 ug/l

RT: 6.09 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

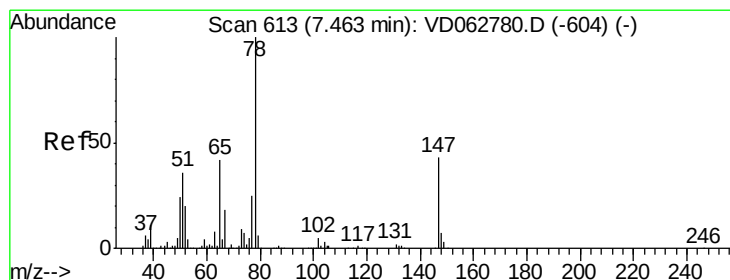
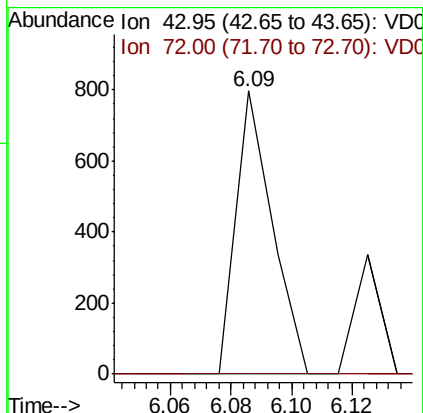
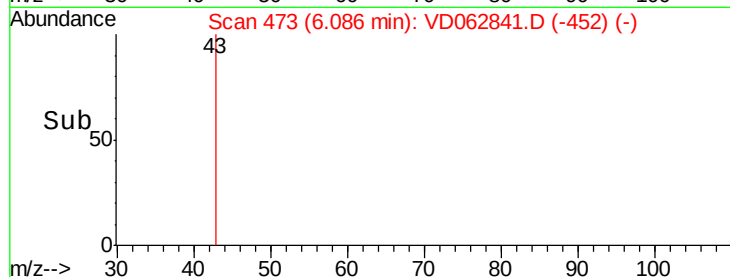
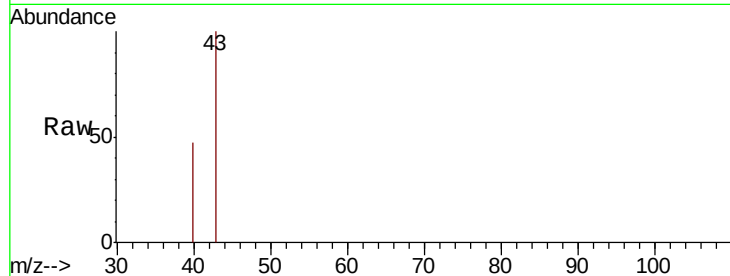
B-2(11-12)

Tot Ion: 43 Resp: 671

Ion Ratio Lower Upper

43 100

72 0.0 11.9 17.9#



#33

1,2-Dichloroethane-d4

Concen: 93.545 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062841.D

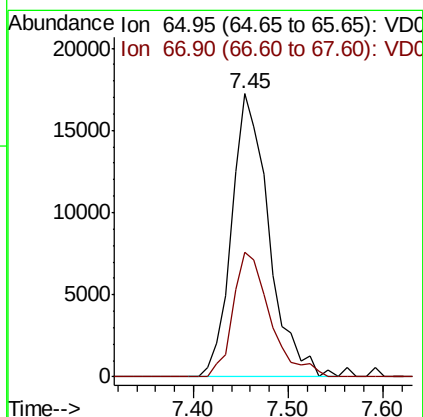
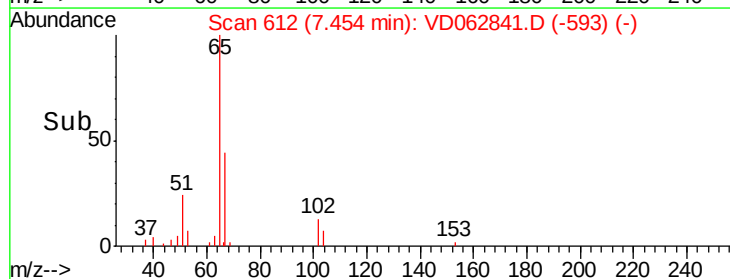
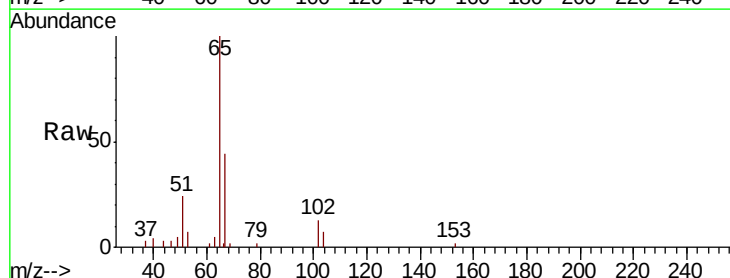
Acq: 24 Jun 2019 15:37

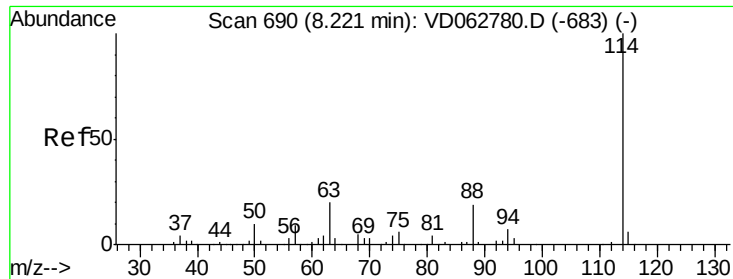
Tgt Ion: 65 Resp: 47023

Ion Ratio Lower Upper

65 100

67 44.2 0.0 87.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

B-2(11-12)

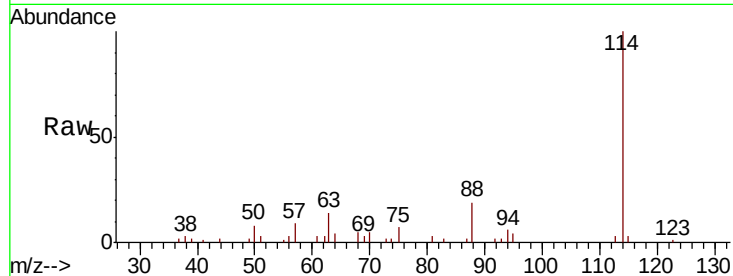
Tot Ion:114 Resp: 75075

Ion Ratio Lower Upper

114 100

63 14.0 0.0 40.0

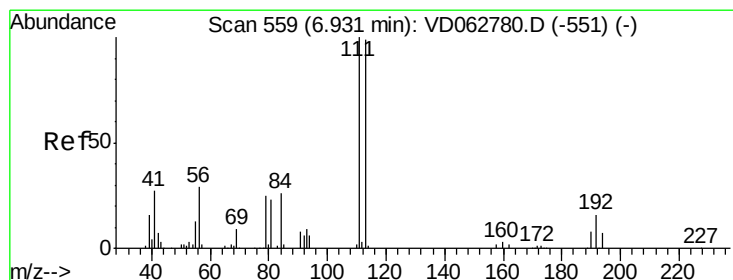
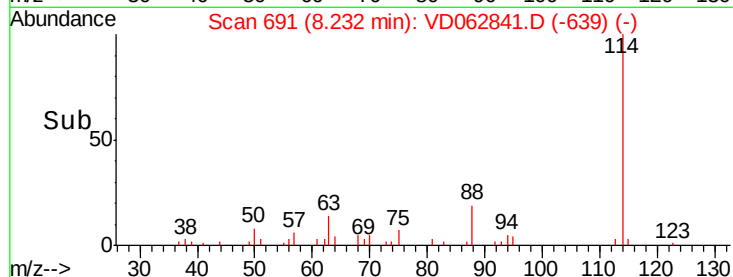
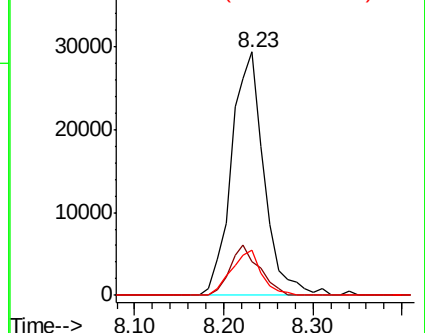
88 18.6 0.0 38.8



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: 54.445 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

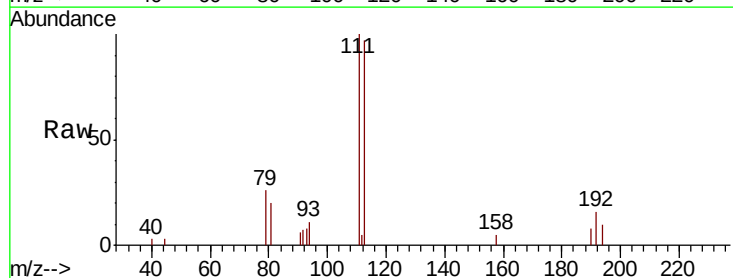
Tgt Ion:113 Resp: 34465

Ion Ratio Lower Upper

113 100

111 103.2 81.2 121.8

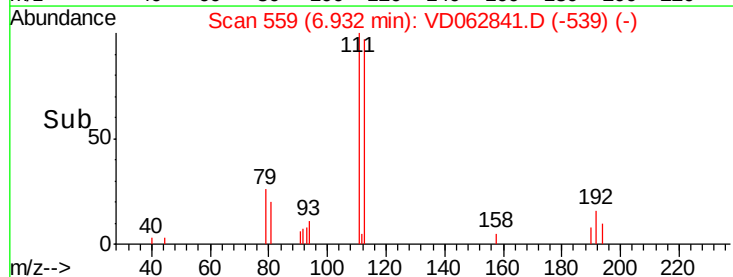
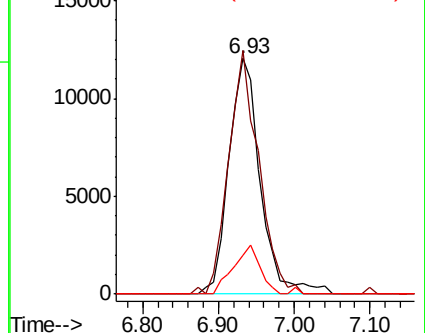
192 16.2 12.9 19.3

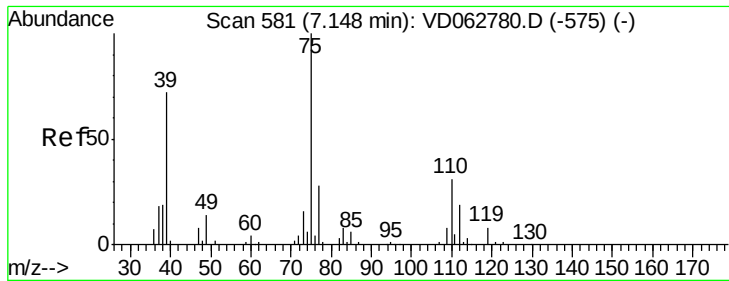


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.769 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

B-2(11-12)

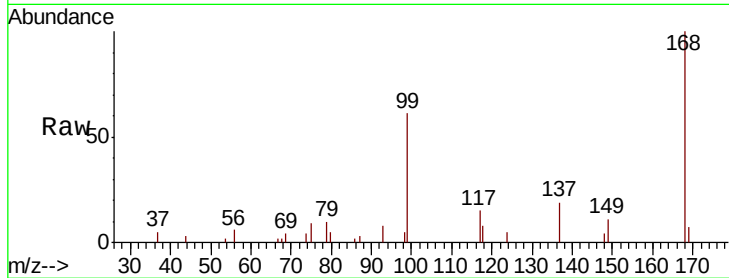
Tot Ion: 75 Resp: 3389

Ion Ratio Lower Upper

75 100

110 0.0 15.0 45.1#

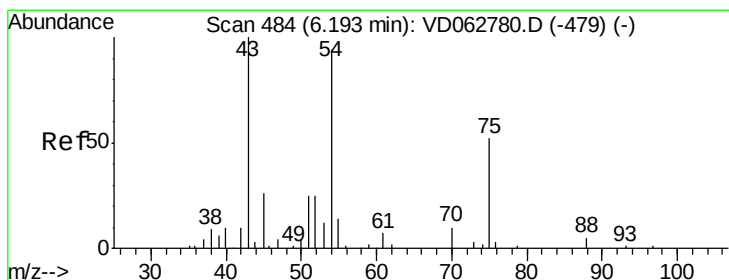
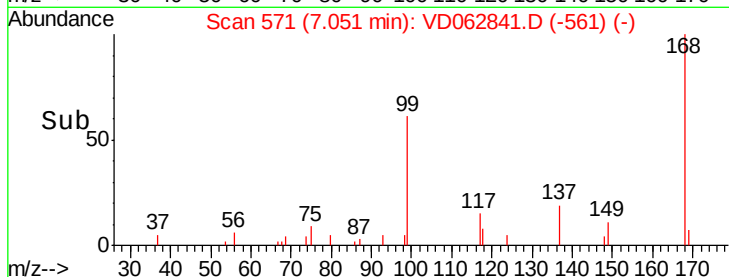
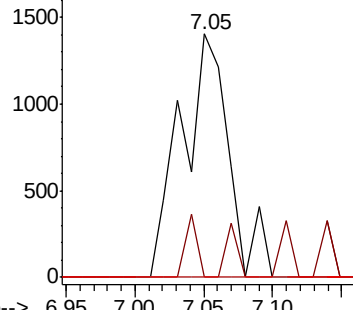
77 0.0 22.2 33.2#



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: 2.433 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.02 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

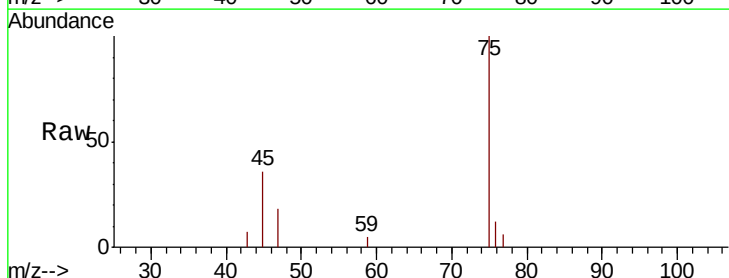
Tgt Ion: 43 Resp: 1039

Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

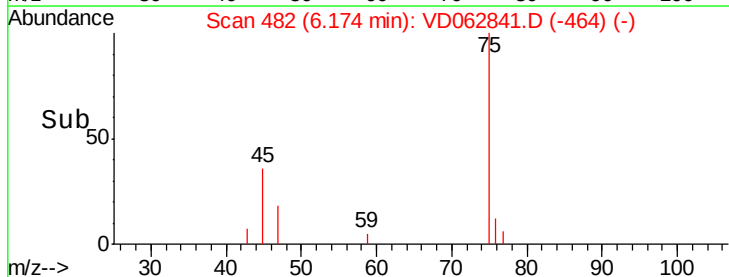
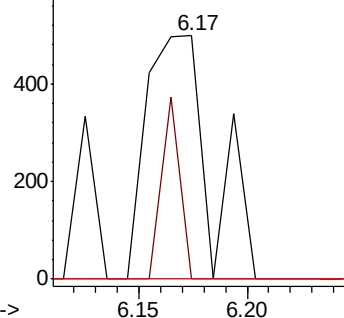
70 0.0 6.4 9.6#

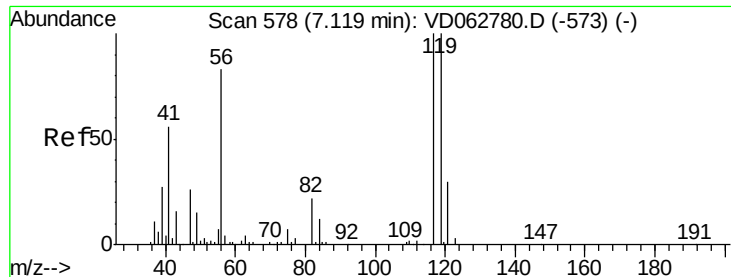


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.421 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

B-2(11-12)

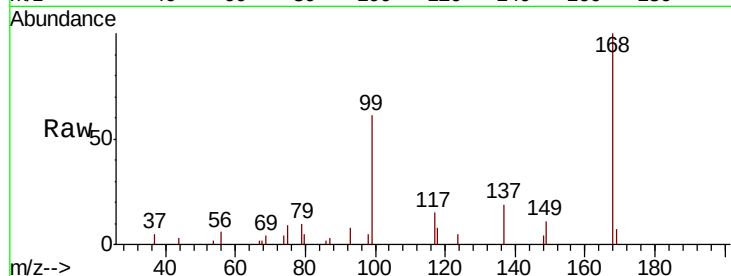
Tot Ion:117 Resp: 5794

Ion Ratio Lower Upper

117 100

119 0.0 75.4 113.2#

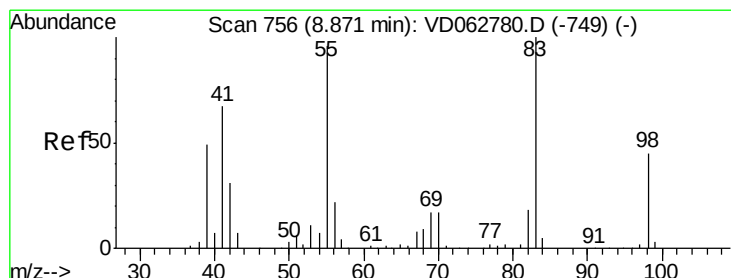
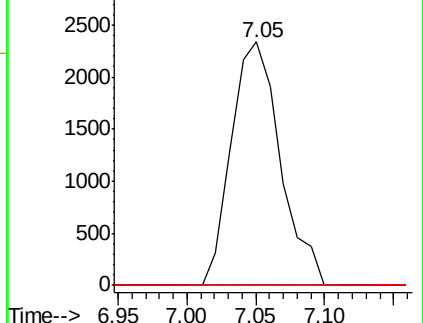
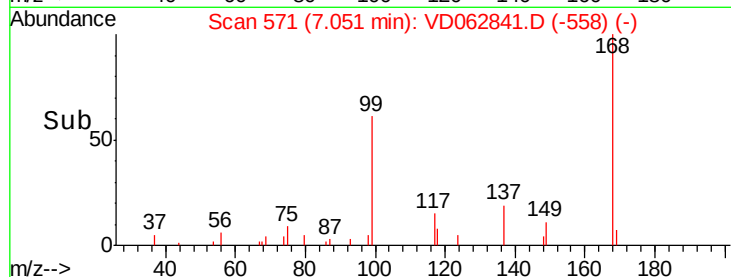
121 0.0 22.3 33.5#



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

Methylcyclohexane

Concen: 1.015 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.00 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

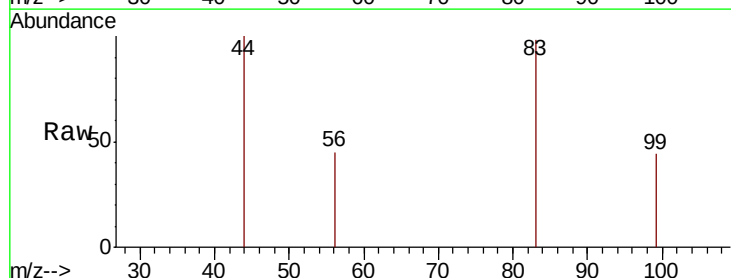
Tgt Ion: 83 Resp: 635

Ion Ratio Lower Upper

83 100

55 0.0 76.6 115.0#

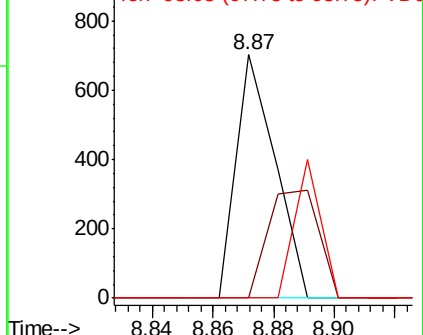
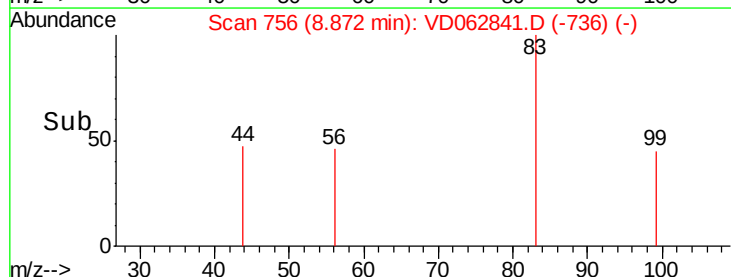
98 0.0 35.7 53.5#

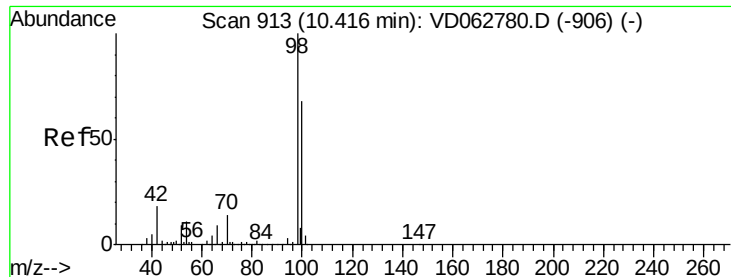


Abundance Ion 83.05 (82.75 to 83.75): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.05 (97.75 to 98.75): V





#50

Toluene-d8

Concen: 44.745 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampled :

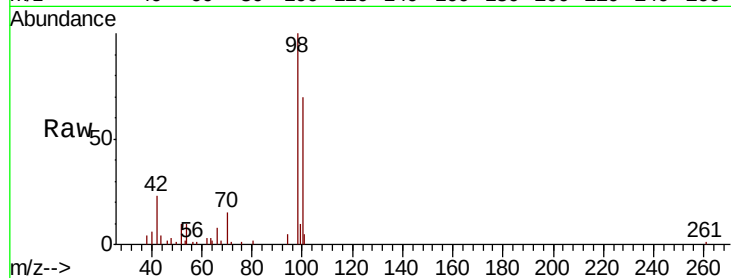
B-2(11-12)

Tot Ion: 98 Resp: 61648

Ion Ratio Lower Upper

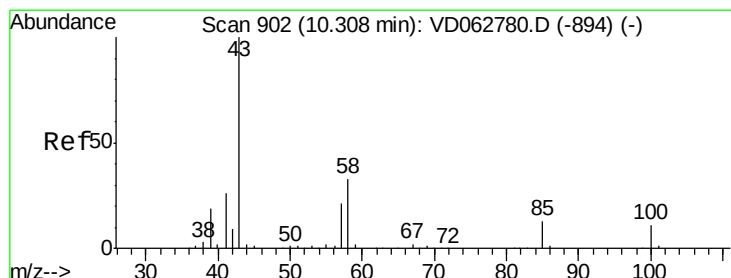
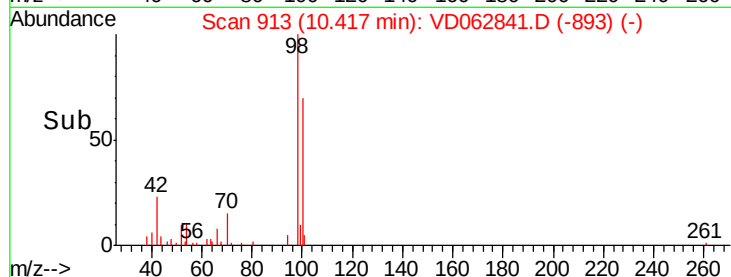
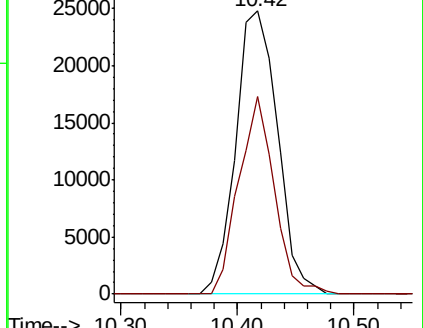
98 100

100 69.9 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VD062780.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD062780.D (-906) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.696 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.10 min

Lab File: VD062841.D

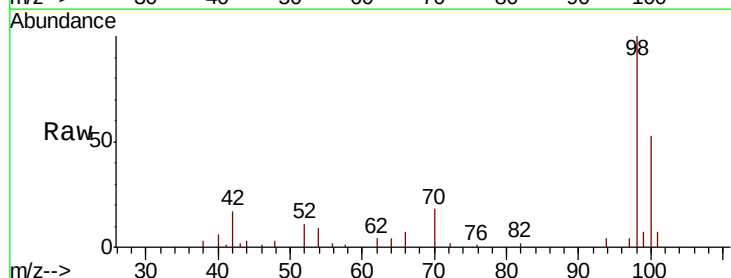
Acq: 24 Jun 2019 15:37

Tgt Ion: 43 Resp: 448

Ion Ratio Lower Upper

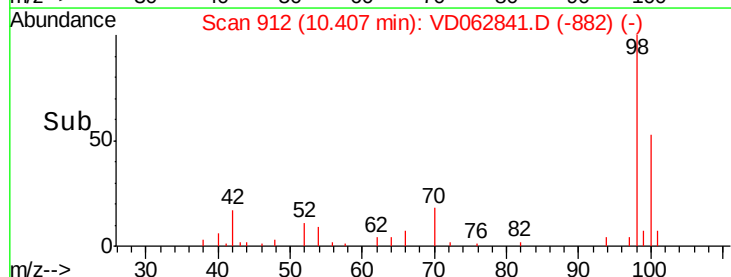
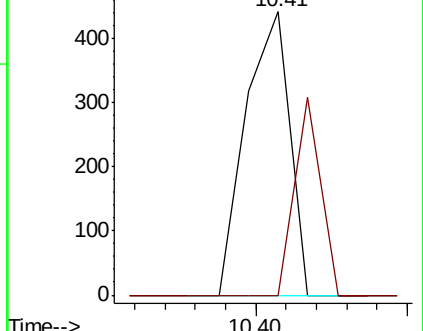
43 100

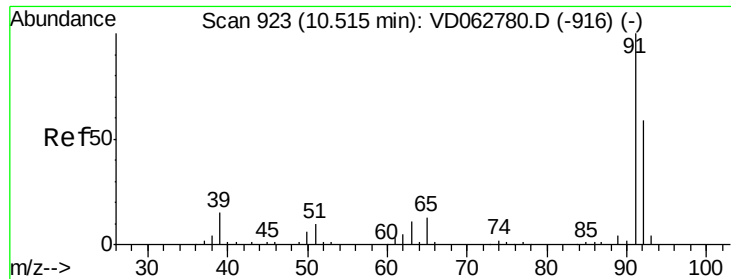
58 0.0 26.6 40.0#



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

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





#52

Toluene

Concen: 1.134 ug/l

RT: 10.52 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

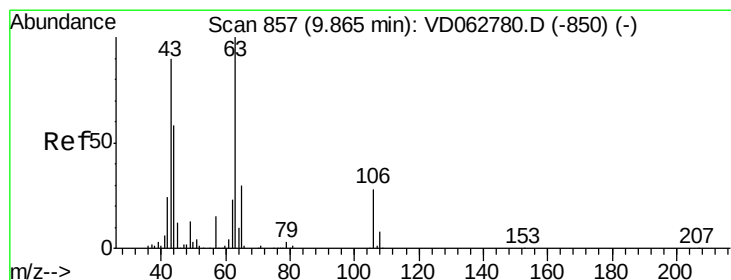
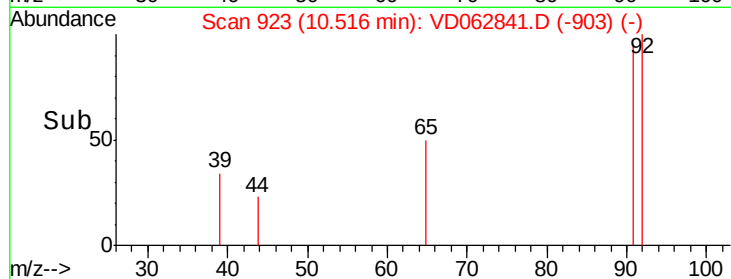
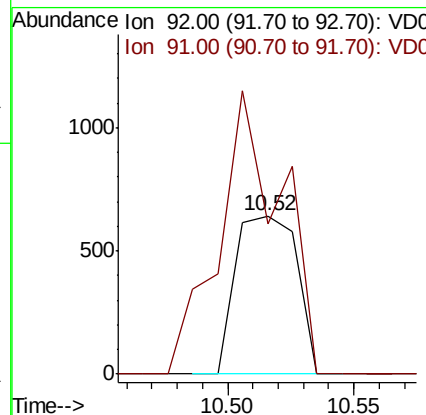
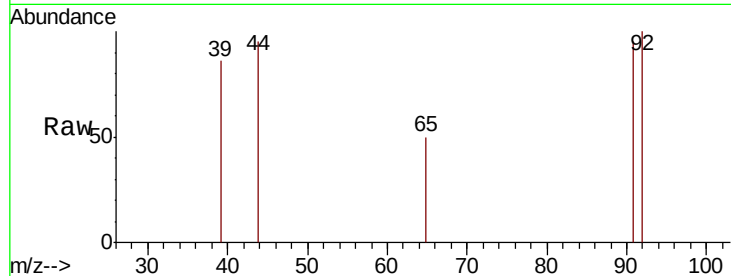
B-2(11-12)

Tot Ion: 92 Resp: 1087

Ion Ratio Lower Upper

92 100

91 95.0 136.3 204.5#



#58

2-Chloroethyl Vinyl ether

Concen: 1.095 ug/l

RT: 9.85 min Scan# 855

Delta R.T. -0.02 min

Lab File: VD062841.D

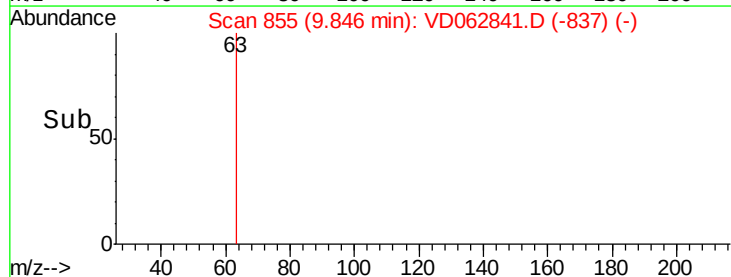
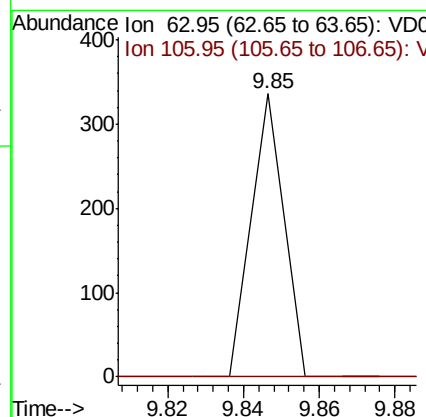
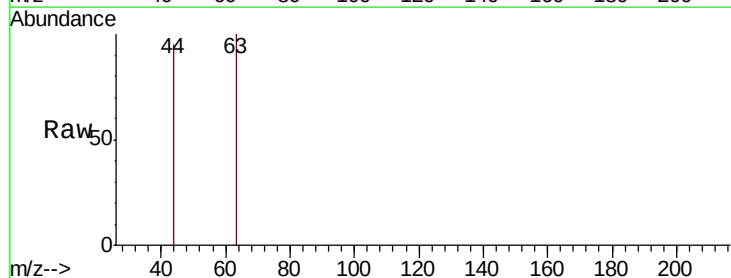
Acq: 24 Jun 2019 15:37

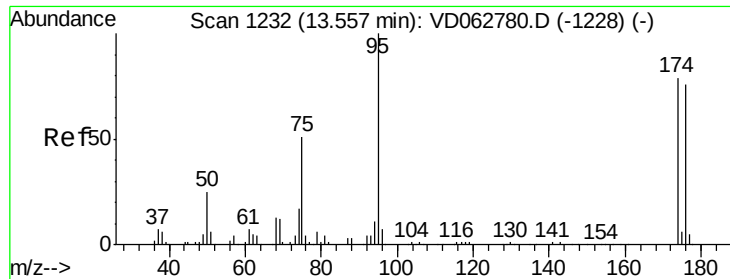
Tgt Ion: 63 Resp: 198

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

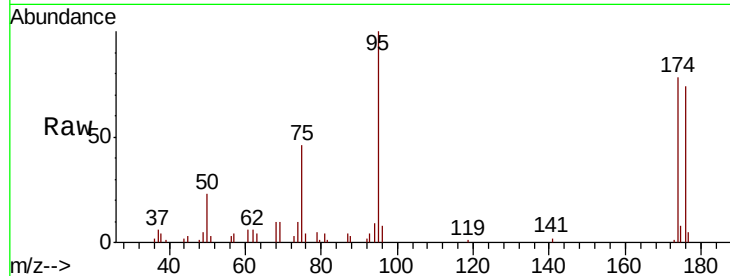




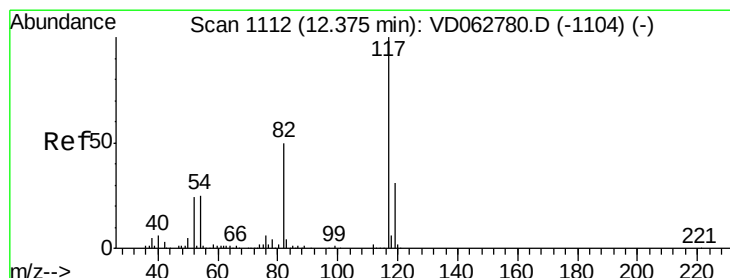
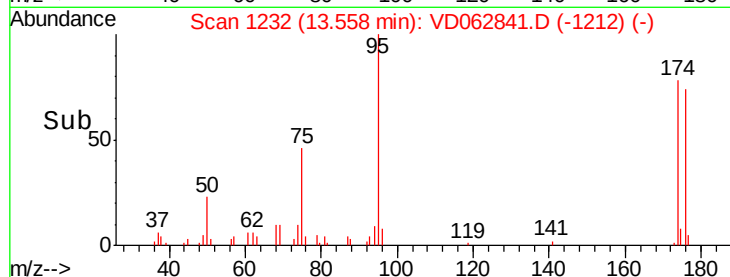
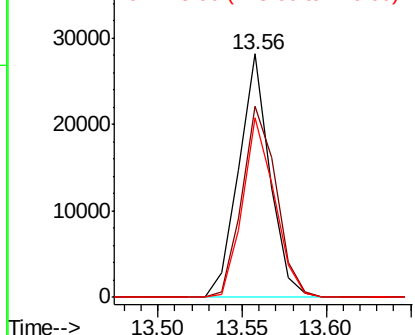
#62
4-Bromofluorobenzene
Concen: 57.638 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

Instrument :
MSVOA_D
ClientSampleId :
B-2(11-12)

Tot Ion: 95 Resp: 36109
Ion Ratio Lower Upper
95 100
174 78.3 0.0 158.0
176 73.7 0.0 151.6

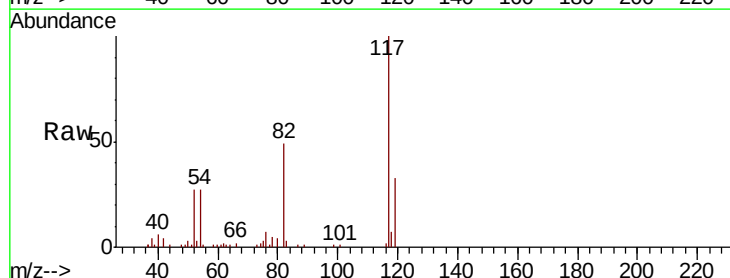


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

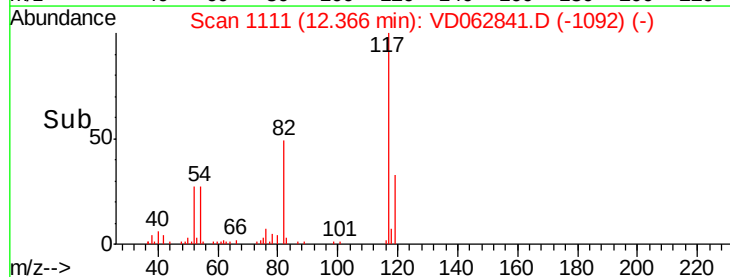
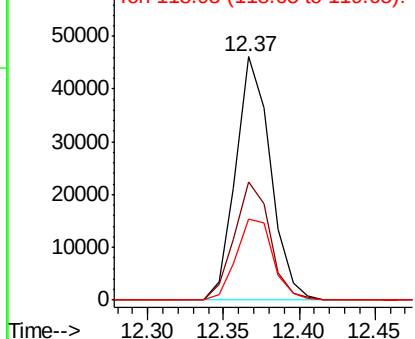


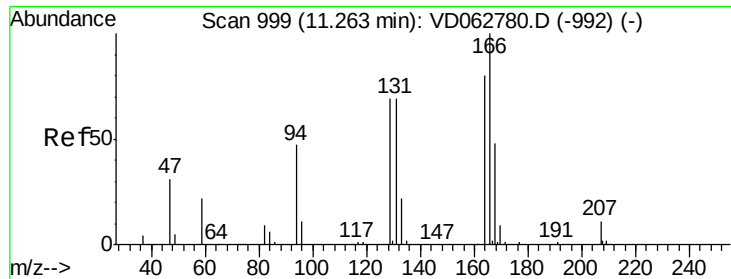
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

Tgt Ion: 117 Resp: 73487
Ion Ratio Lower Upper
117 100
82 48.6 40.4 60.6
119 33.1 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

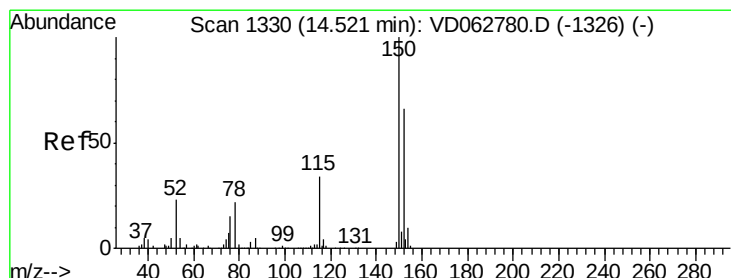
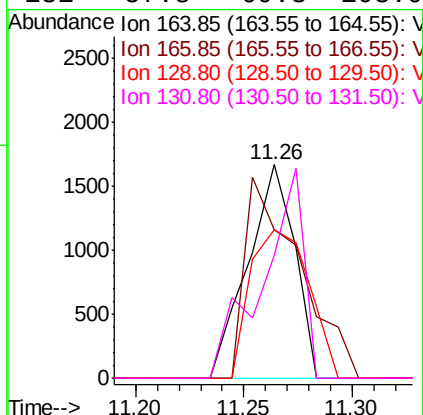
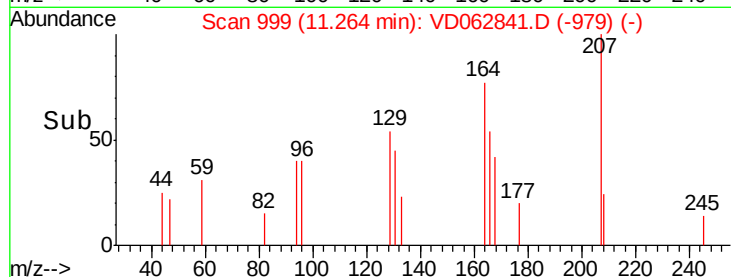
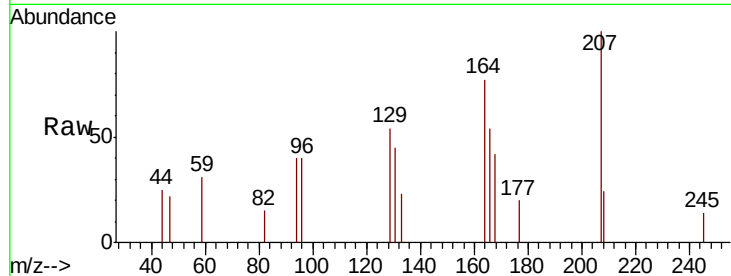




#64
Tetrachloroethene
Concen: 4.122 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.00 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

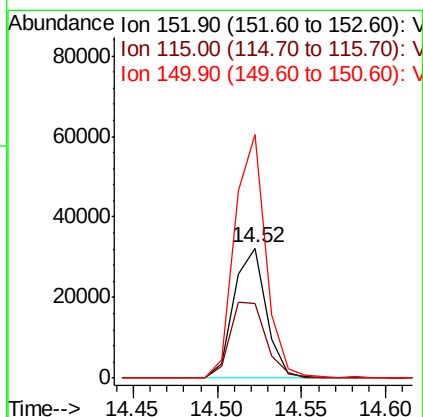
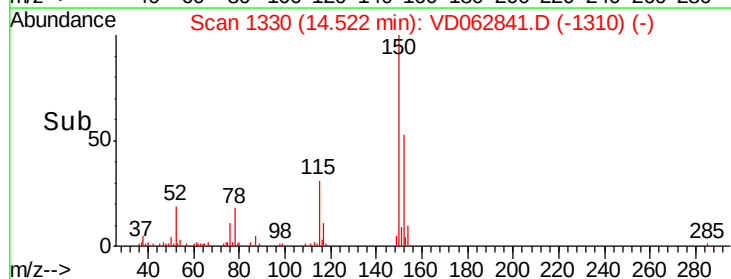
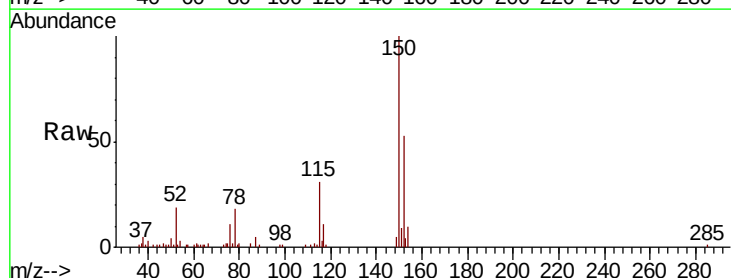
Instrument :
MSVOA_D
ClientSampleId :
B-2(11-12)

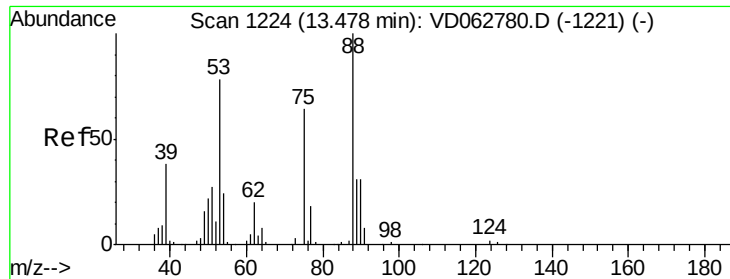
Tot Ion:164 Resp: 2493
Ion Ratio Lower Upper
164 100
166 69.5 100.6 150.8#
129 69.3 69.4 104.0#
131 57.8 69.3 103.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062841.D
Acq: 24 Jun 2019 15:37

Tgt Ion:152 Resp: 42909
Ion Ratio Lower Upper
152 100
115 57.9 29.2 87.6
150 187.3 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 128.597 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

Instrument :

MSVOA_D

ClientSampleId :

B-2(11-12)

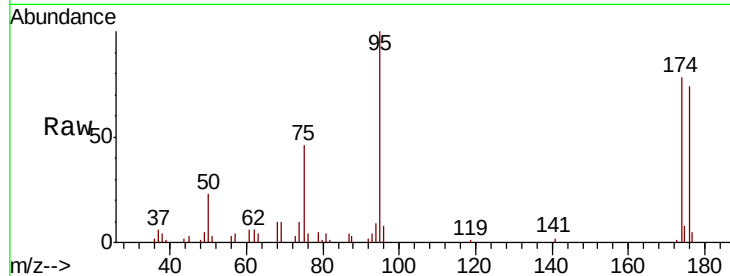
Tot Ion: 75 Resp: 16695

Ion Ratio Lower Upper

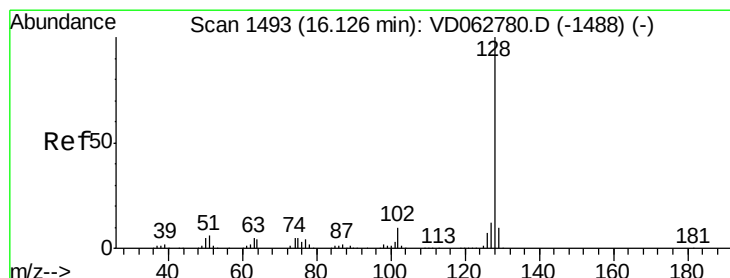
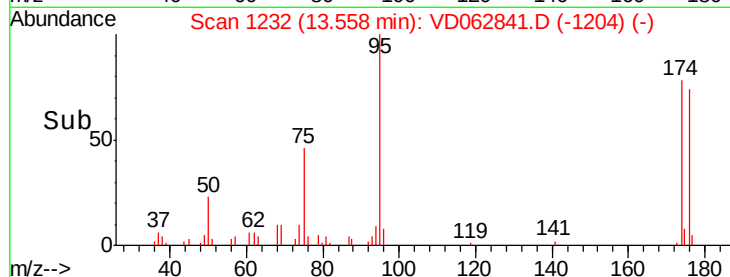
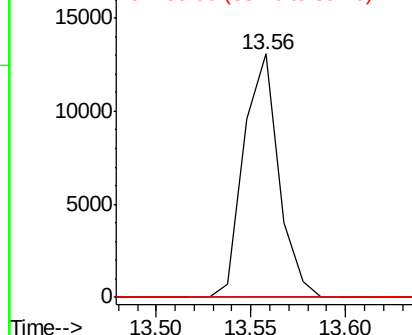
75 100

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



#95

Naphthalene

Concen: 2.994 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062841.D

Acq: 24 Jun 2019 15:37

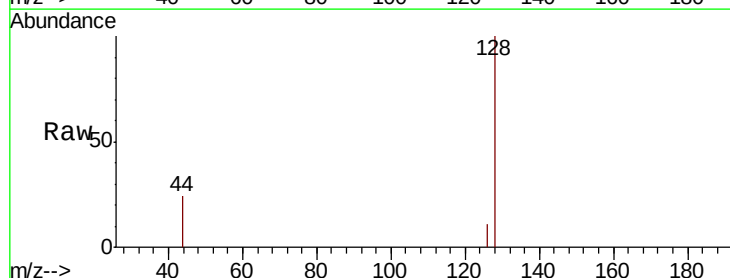
Tgt Ion:128 Resp: 3720

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.3 12.5#



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

