

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051019\
 Data File : VD062211.D
 Acq On : 10 May 2019 13:12
 Operator : FY/SY
 Sample : K2718-02RE
 Misc : 5.86g/5mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS004-1824-01RE

Quant Time: May 10 23:31:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	3343	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	7720	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	8609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	6012	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	4169	134.19	ug/l	0.00
Spiked Amount			Recovery	=	268.38%	
35) Dibromofluoromethane	6.91	113	4159	64.93	ug/l	0.02
Spiked Amount			Recovery	=	129.86%	
50) Toluene-d8	10.41	98	9678	62.67	ug/l	0.00
Spiked Amount			Recovery	=	125.34%	
62) 4-Bromofluorobenzene	13.56	95	5013	80.83	ug/l	0.00
Spiked Amount			Recovery	=	161.66%	

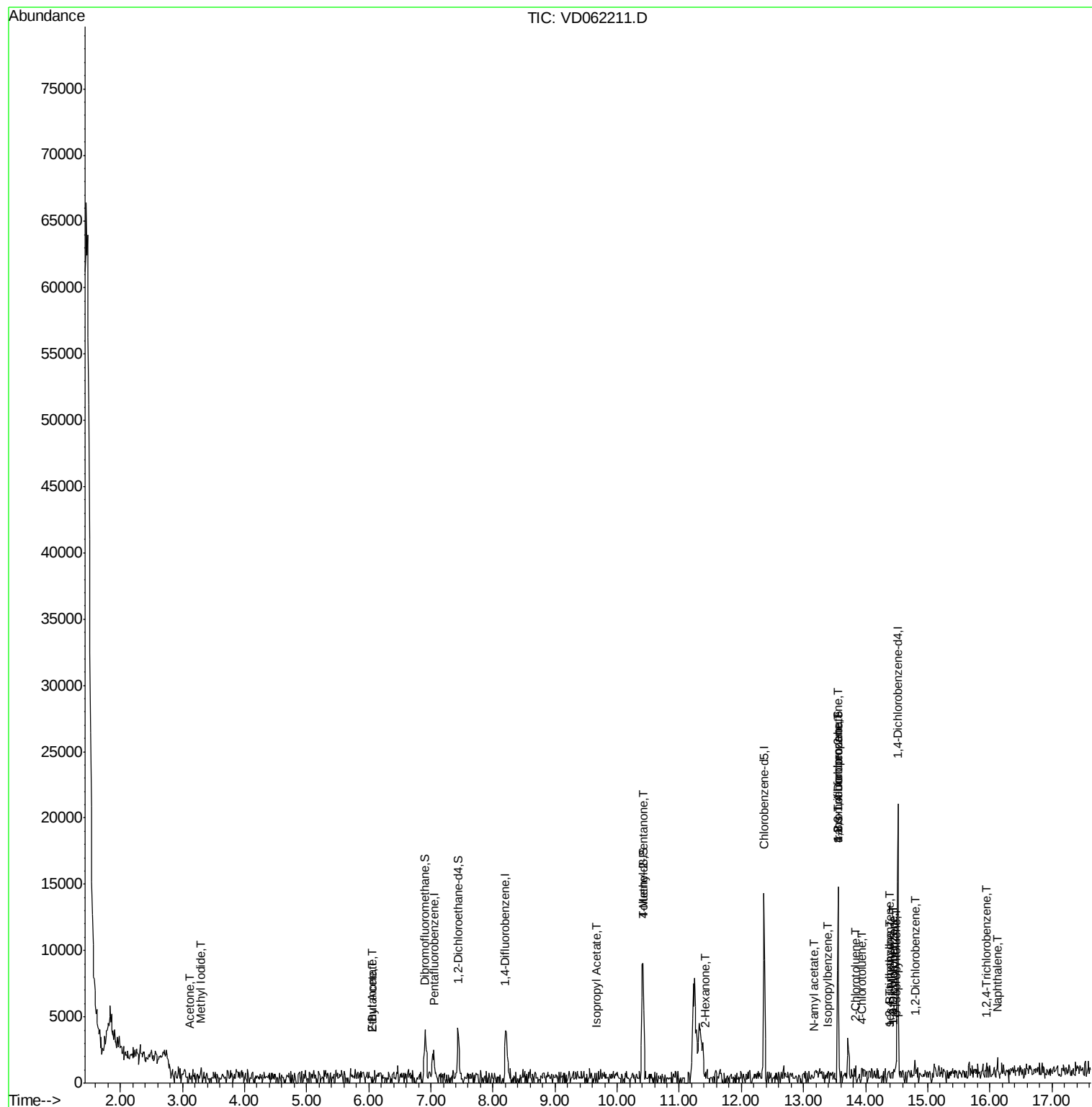
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.30	142	181	3.586	ug/l #	37
16) Acetone	3.11	43	184	28.242	ug/l #	50
25) 2-Butanone	6.06	43	273	38.416	ug/l #	56
37) Ethyl Acetate	6.06	43	273	10.170	ug/l #	64
43) Isopropyl Acetate	9.67	43	225	5.910	ug/l #	43
51) 4-Methyl-2-Pentanone	10.41	43	187	7.642	ug/l #	37
59) 2-Hexanone	11.43	43	211	11.699	ug/l #	27
73) Isopropylbenzene	13.40	105	481	1.335	ug/l #	51
74) N-amyl acetate	13.16	43	190	2.011	ug/l #	49
76) 1,2,3-Trichloropropane	13.56	75	1276	17.859	ug/l #	42
79) 2-Chlorotoluene	13.84	91	284	1.154	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.56	75	1726	85.572	ug/l #	16
82) 4-Chlorotoluene	13.95	91	452	1.560	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.37	105	559	1.836	ug/l #	30
85) sec-Butylbenzene	14.37	105	559	1.495	ug/l #	60
86) p-Isopropyltoluene	14.49	119	553	1.655	ug/l #	52
87) 1,3-Dichlorobenzene	14.45	146	659	3.576	ug/l #	64
88) 1,4-Dichlorobenzene	14.45	146	659	3.639	ug/l #	63
91) 1,2-Dichlorobenzene	14.81	146	216	1.423	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.95	180	317	2.870	ug/l #	69
95) Naphthalene	16.12	128	406	2.632	ug/l #	70

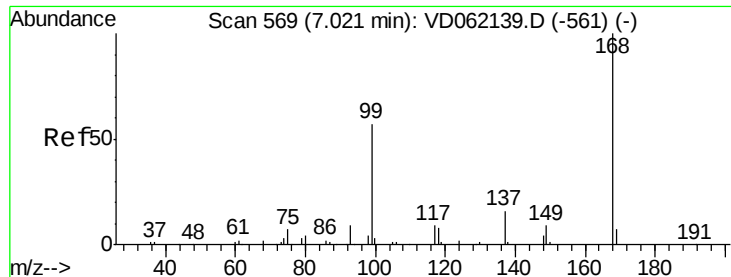
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

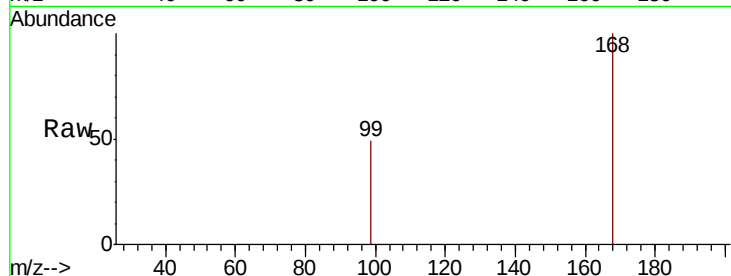
P026-SS004-1824-01RE

Tot Ion:168 Resp: 3343

Ion Ratio Lower Upper

168 100

99 49.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

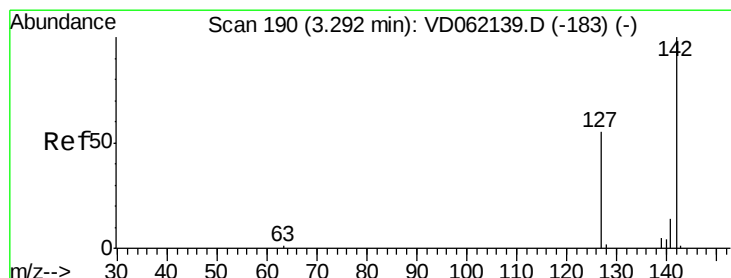
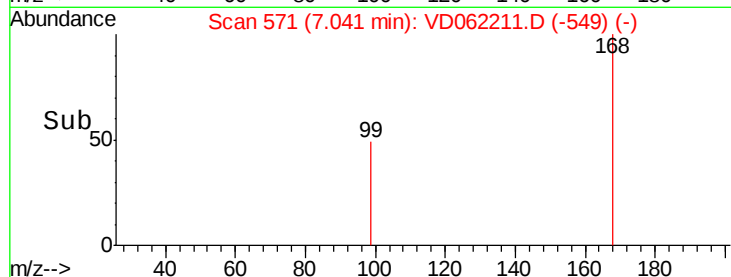
1000

500

0

Time-->

7.00 7.05 7.10



#10

Methyl Iodide

Concen: 3.586 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

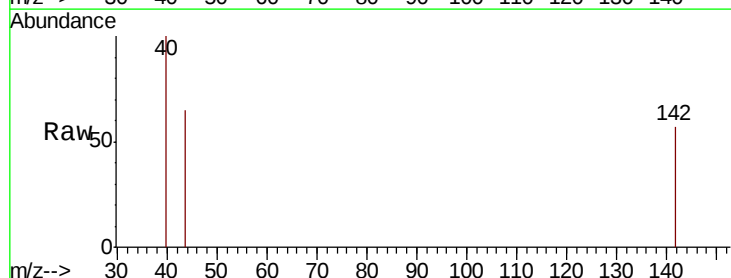
Tgt Ion:142 Resp: 181

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

141 0.0 11.4 17.0#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.30

400

300

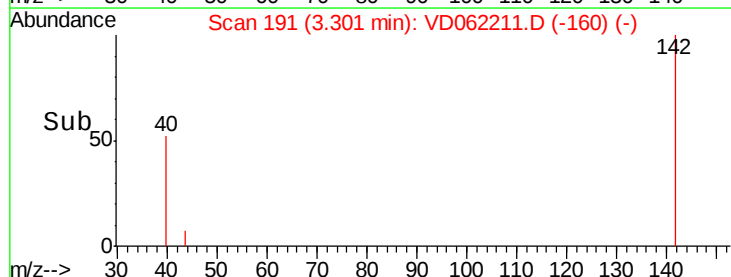
200

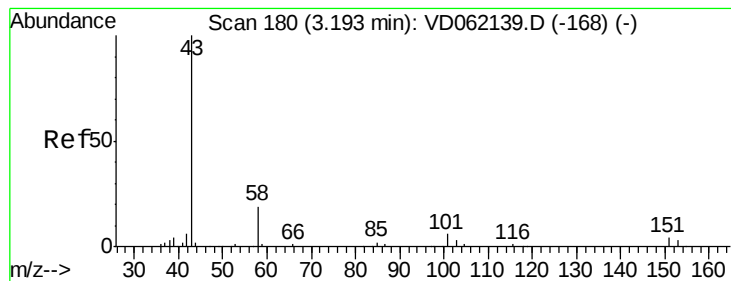
100

0

Time-->

3.28 3.30 3.32





#16

Acetone

Concen: 28.242 ug/l

RT: 3.11 min Scan# 172

Delta R.T. -0.08 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

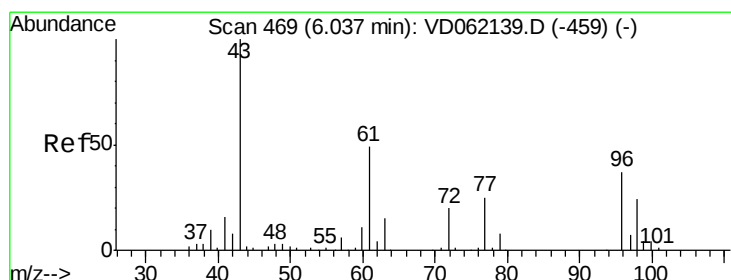
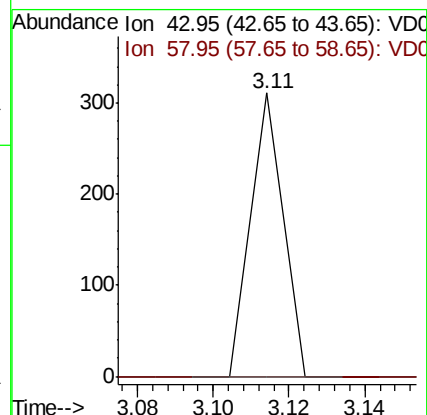
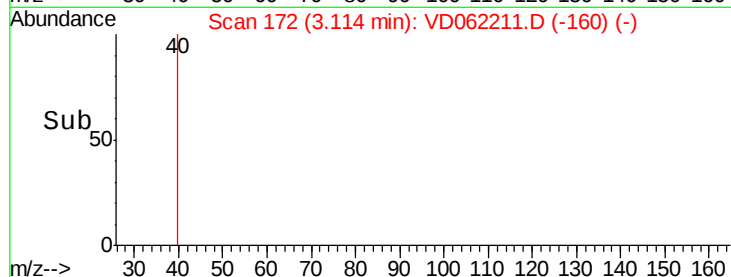
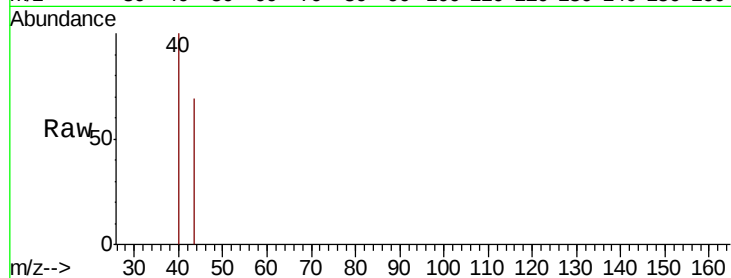
P026-SS004-1824-01RE

Tot Ion: 43 Resp: 184

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#



#25

2-Butanone

Concen: 38.416 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD062211.D

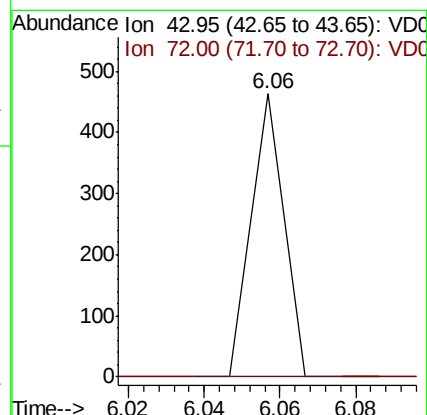
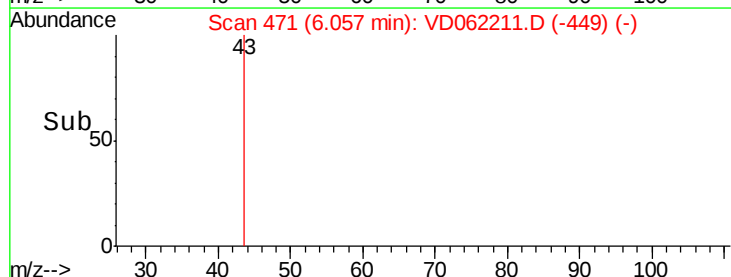
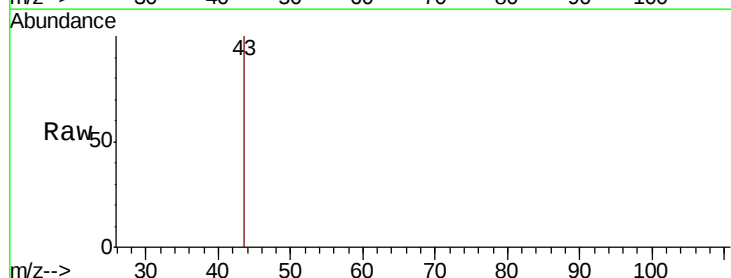
Acq: 10 May 2019 13:12

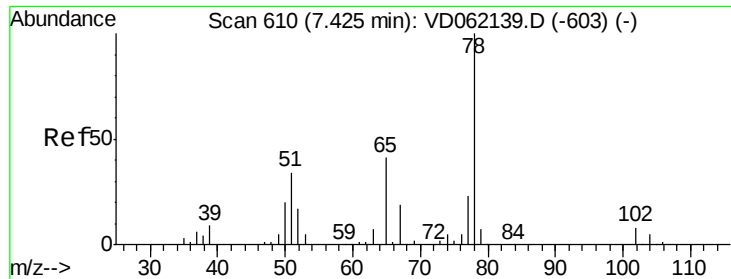
Tgt Ion: 43 Resp: 273

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#





#33

1,2-Dichloroethane-d4

Concen: 134.194 ug/l

RT: 7.43 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

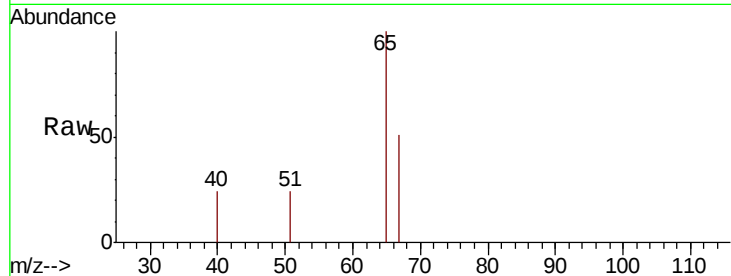
P026-SS004-1824-01RE

Tot Ion: 65 Resp: 4169

Ion Ratio Lower Upper

65 100

67 51.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.43

2000

1500

1000

500

0

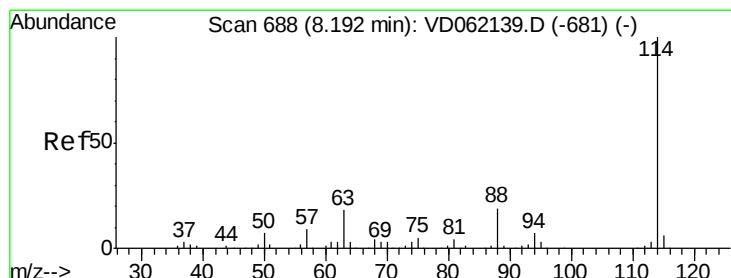
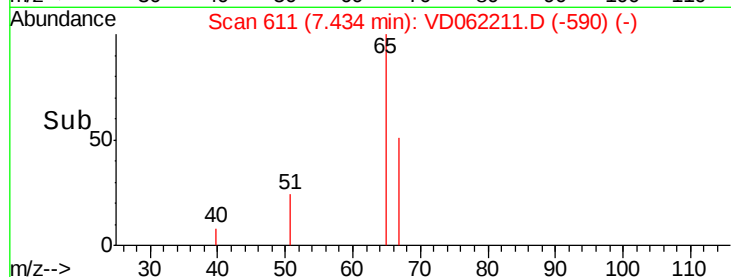
Time-->

7.35

7.40

7.45

7.50



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

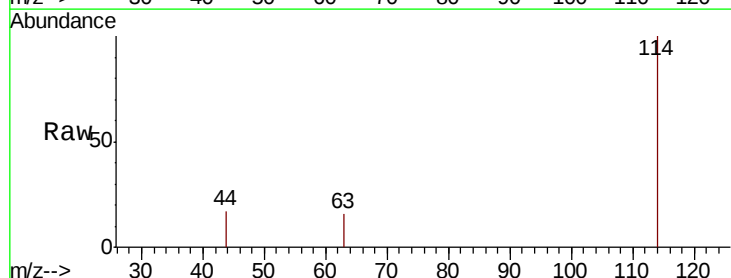
Tgt Ion: 114 Resp: 7720

Ion Ratio Lower Upper

114 100

63 16.2 0.0 32.4

88 0.0 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

4000

3000

2000

1000

0

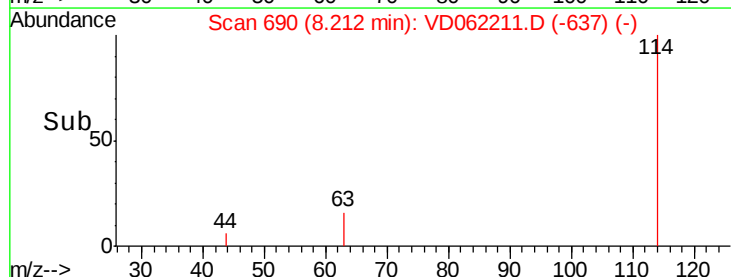
Time-->

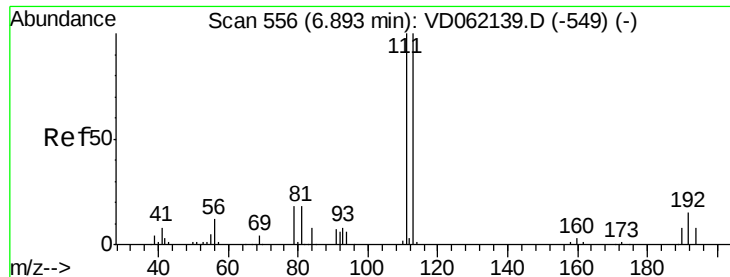
8.15

8.20

8.25

8.30





#35

Dibromofluoromethane

Concen: 64.930 ug/l

RT: 6.91 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-1824-01RE

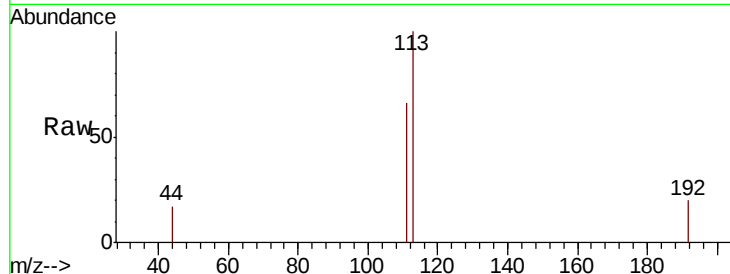
Tot Ion:113 Resp: 4159

Ion Ratio Lower Upper

113 100

111 66.1 78.5 117.7#

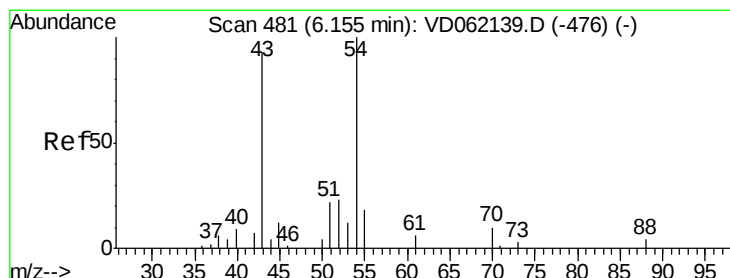
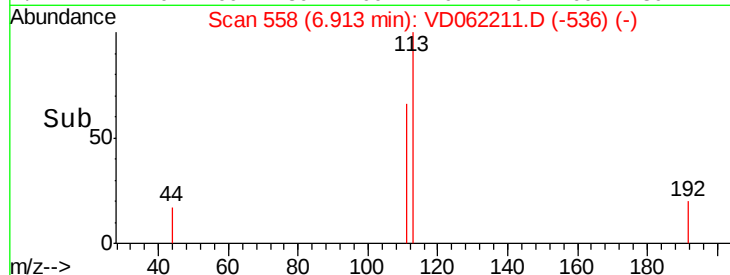
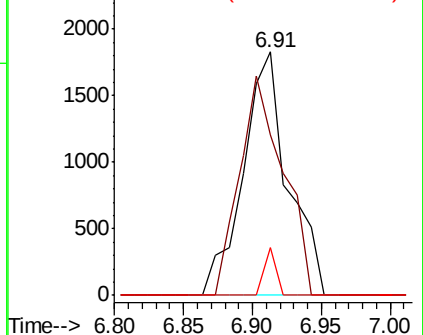
192 19.5 13.0 19.4#



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



#37

Ethyl Acetate

Concen: 10.170 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.10 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

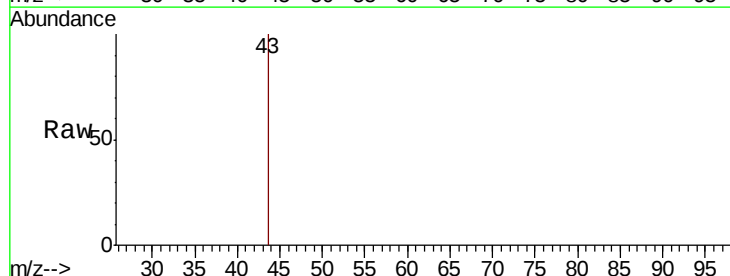
Tgt Ion: 43 Resp: 273

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

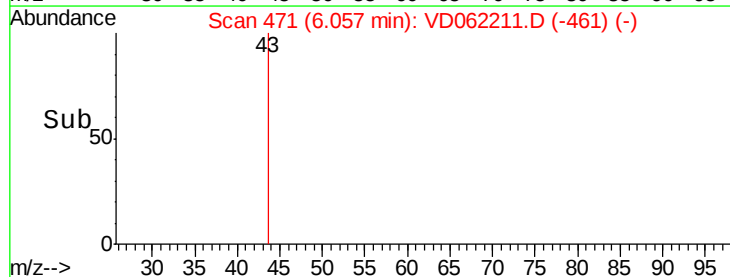
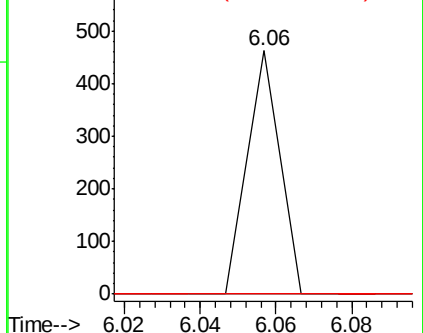
70 0.0 7.8 11.6#

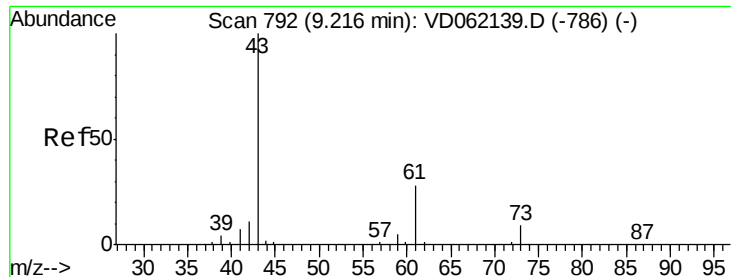


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 70.00 (69.70 to 70.70): V





#43

Isopropyl Acetate

Concen: 5.910 ug/l

RT: 9.67 min Scan# 838

Delta R.T. 0.45 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

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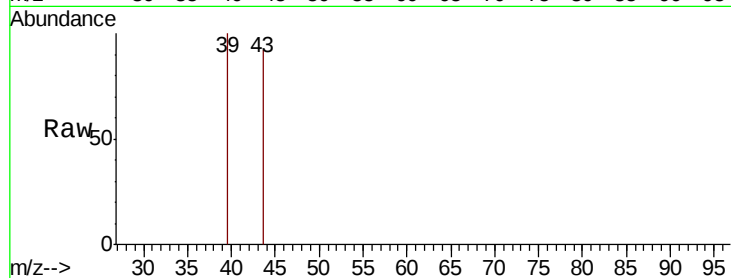
Tot Ion: 43 Resp: 225

Ion Ratio Lower Upper

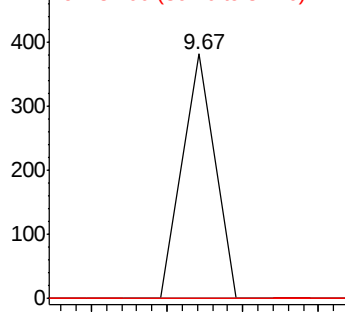
43 100

61 0.0 25.1 37.7#

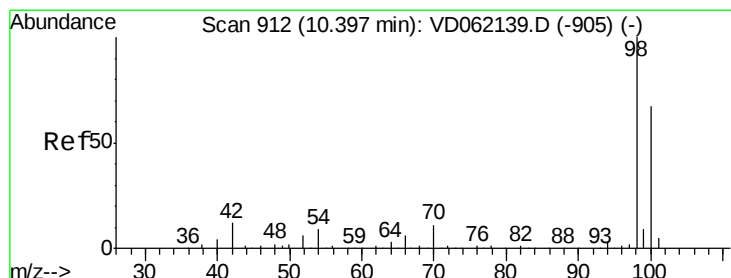
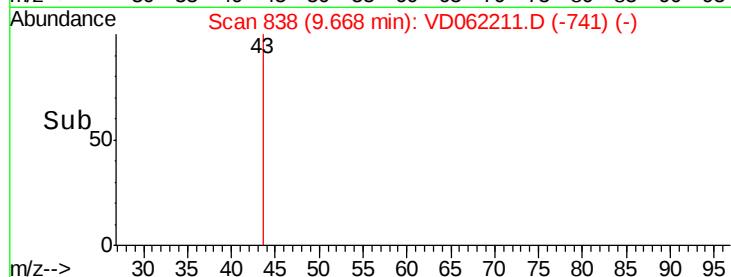
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



Time-->



#50

Toluene-d8

Concen: 62.666 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD062211.D

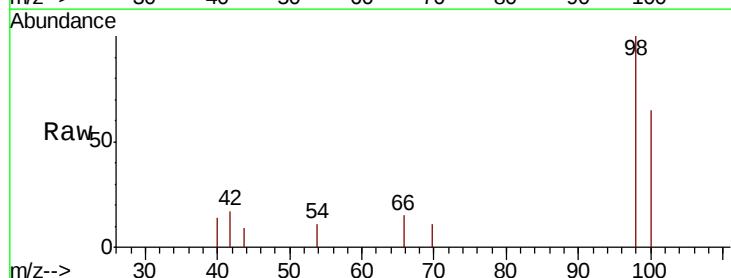
Acq: 10 May 2019 13:12

Tgt Ion: 98 Resp: 9678

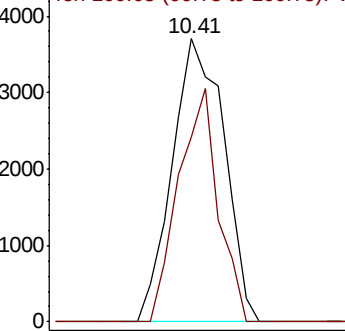
Ion Ratio Lower Upper

98 100

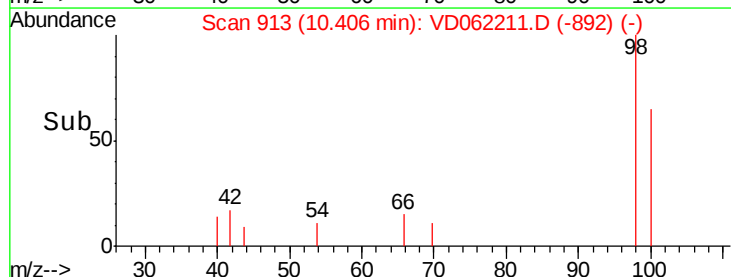
100 65.1 53.8 80.8

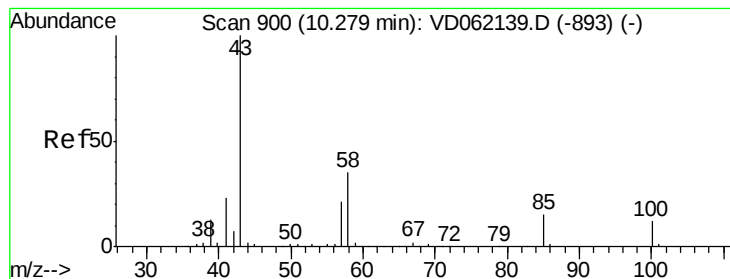


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



Time-->





#51

4-Methyl-2-Pentanone

Concen: 7.642 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.13 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

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ClientSampleId :

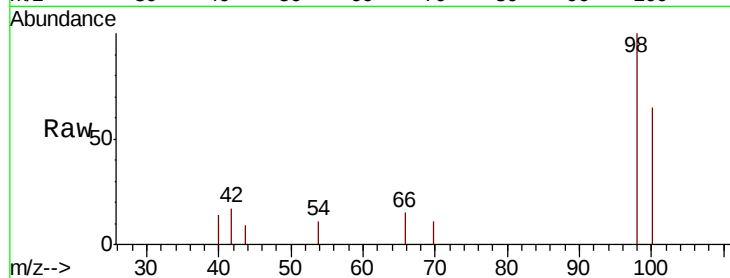
P026-SS004-1824-01RE

Tot Ion: 43 Resp: 187

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.41

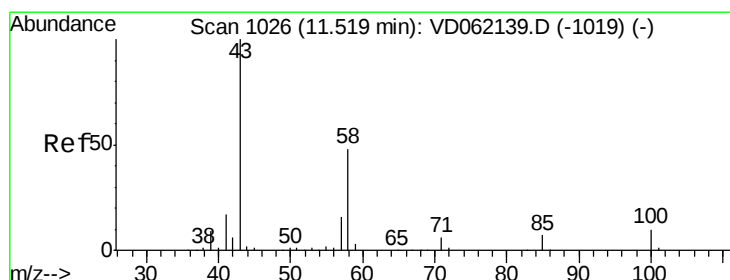
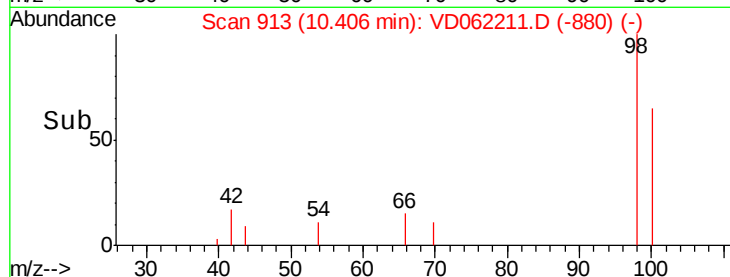
300

200

100

0

Time-->



#59

2-Hexanone

Concen: 11.699 ug/l

RT: 11.43 min Scan# 1017

Delta R.T. -0.09 min

Lab File: VD062211.D

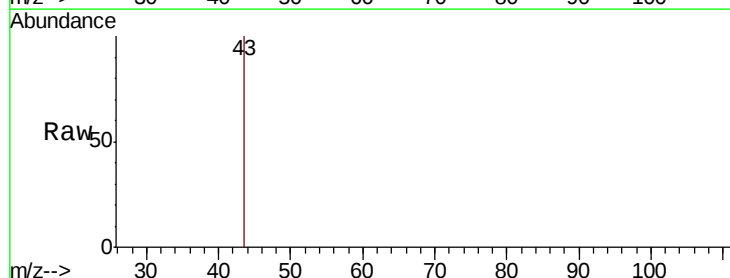
Acq: 10 May 2019 13:12

Tgt Ion: 43 Resp: 211

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

11.43

400

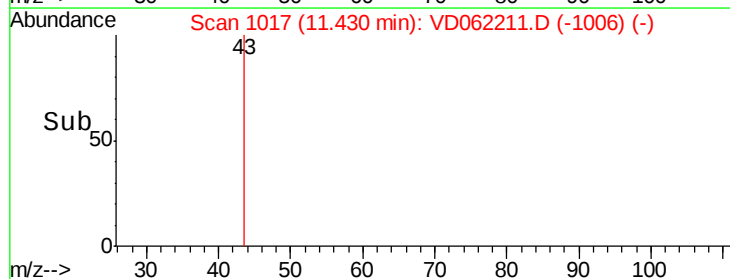
300

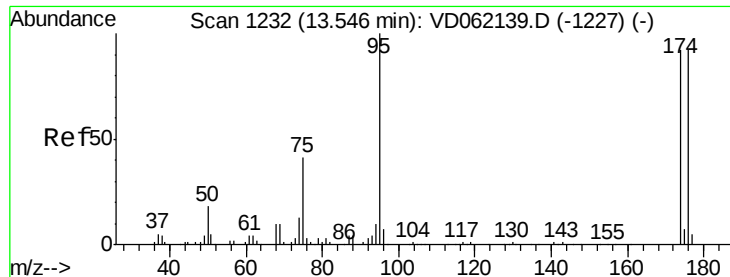
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 80.833 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-1824-01RE

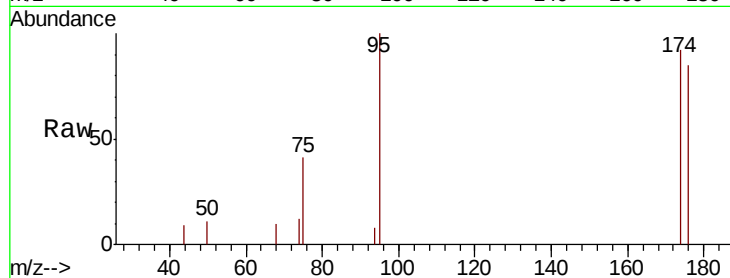
Tot Ion: 95 Resp: 5013

Ion Ratio Lower Upper

95 100

174 92.0 0.0 181.8

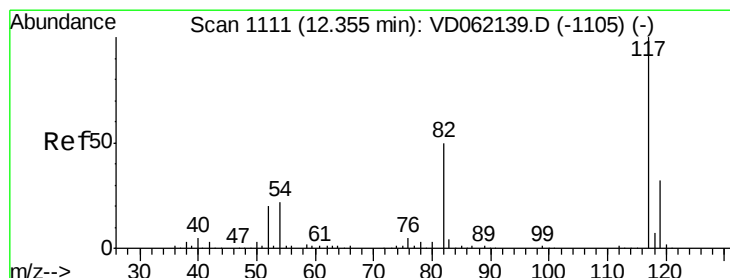
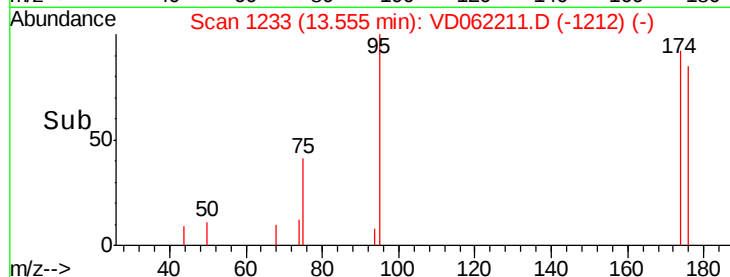
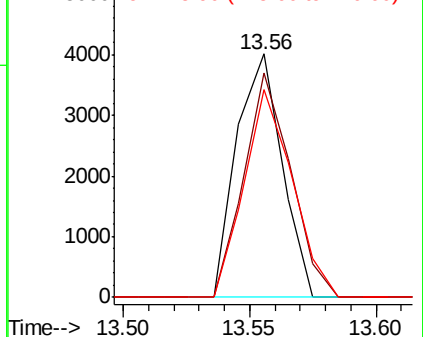
176 85.4 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

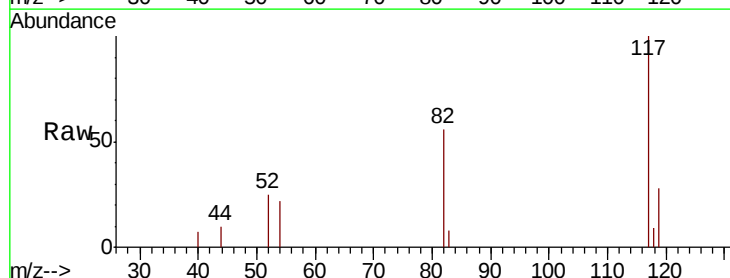
Tgt Ion: 117 Resp: 8609

Ion Ratio Lower Upper

117 100

82 56.0 36.2 54.2#

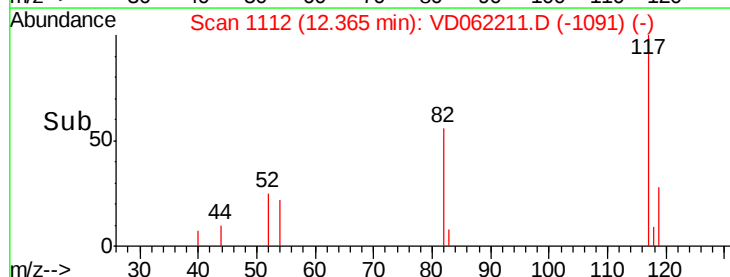
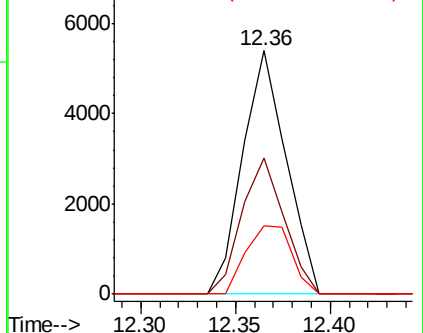
119 28.2 26.2 39.4

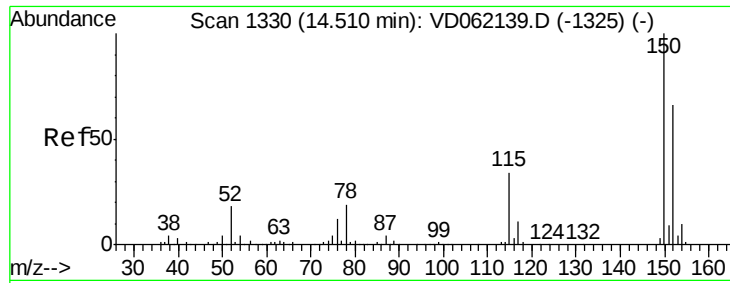


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-1824-01RE

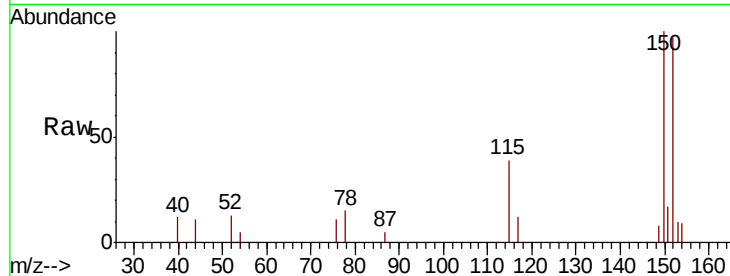
Tot Ion:152 Resp: 6012

Ion Ratio Lower Upper

152 100

115 40.0 30.9 92.7

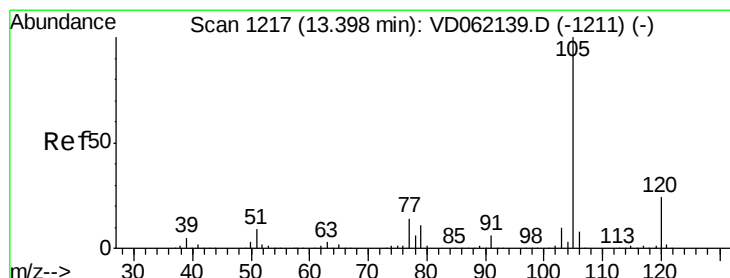
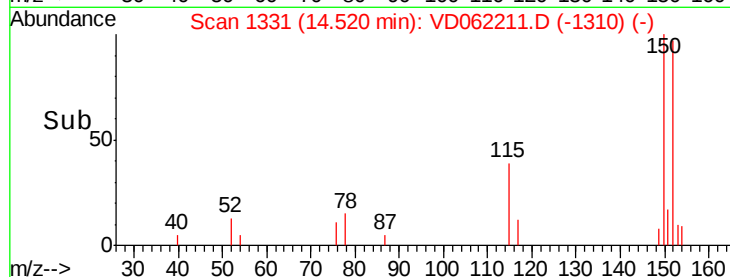
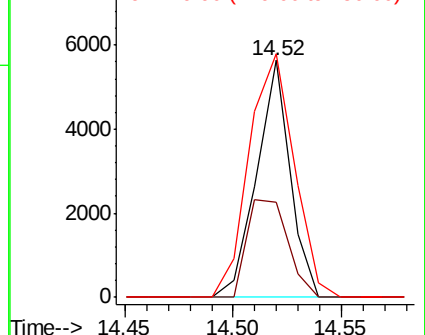
150 102.8 0.0 314.8



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



#73

Isopropylbenzene

Concen: 1.335 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062211.D

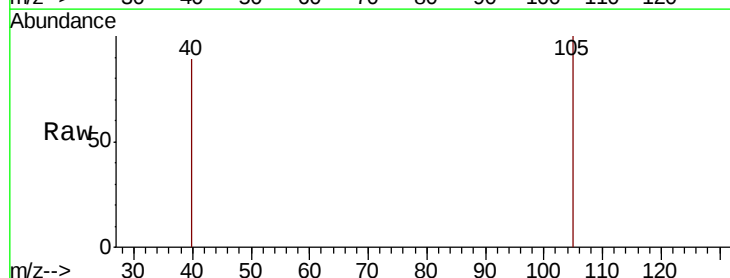
Acq: 10 May 2019 13:12

Tgt Ion:105 Resp: 481

Ion Ratio Lower Upper

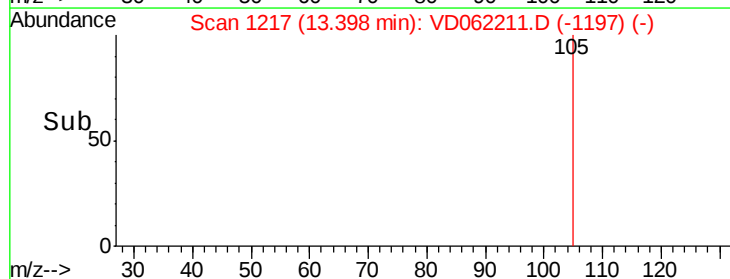
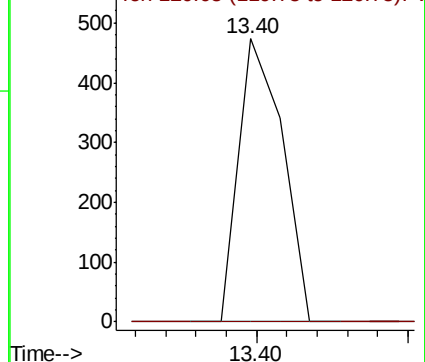
105 100

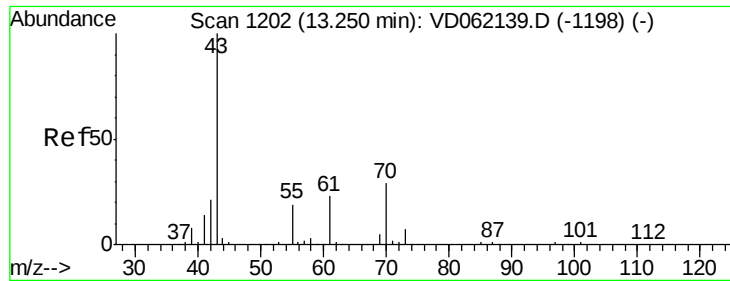
120 0.0 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 2.011 ug/l

RT: 13.16 min Scan# 1193

Delta R.T. -0.09 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-1824-01RE

Tot Ion: 43 Resp: 190

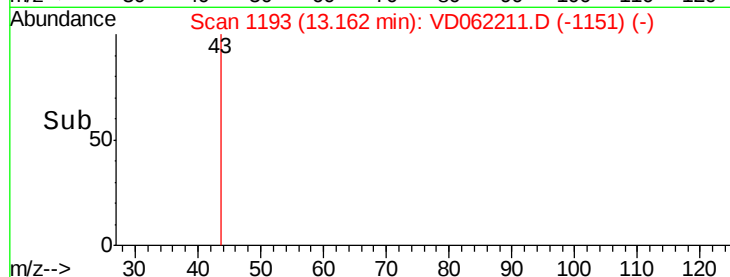
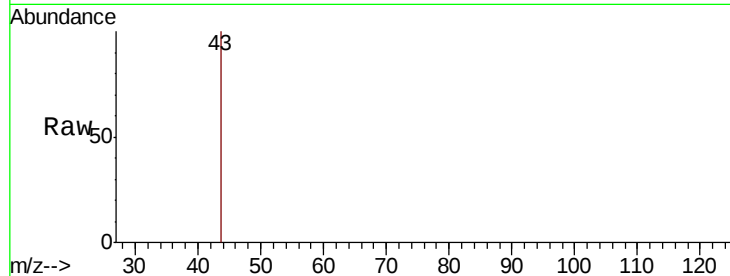
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

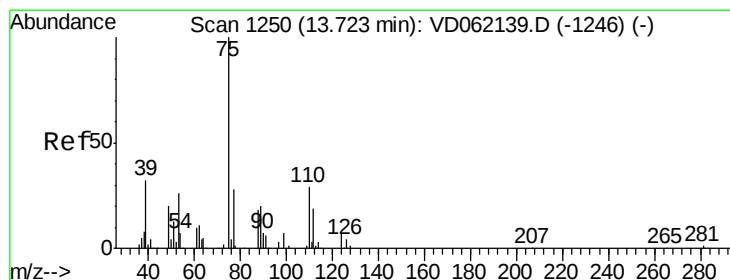
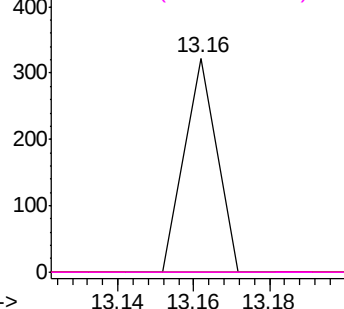


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 17.859 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062211.D

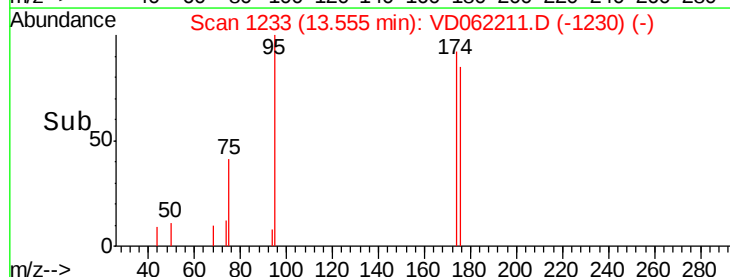
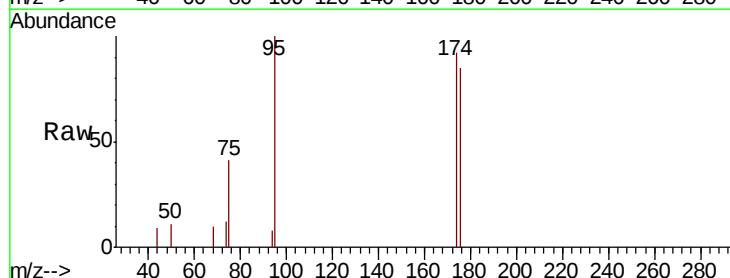
Acq: 10 May 2019 13:12

Tgt Ion: 75 Resp: 1276

Ion Ratio Lower Upper

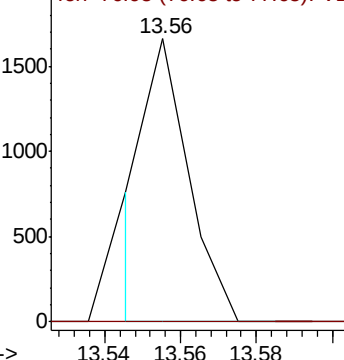
75 100

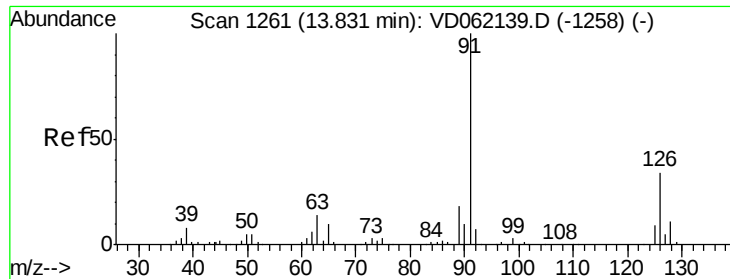
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#79

2-Chlorotoluene

Concen: 1.154 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

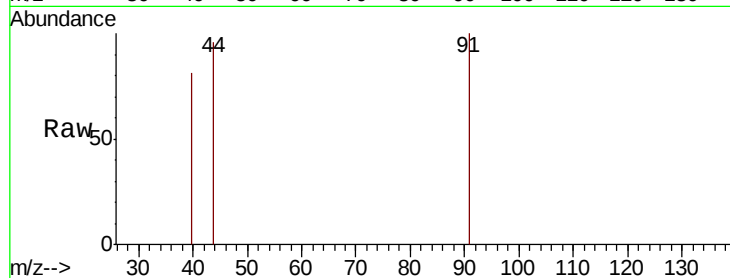
P026-SS004-1824-01RE

Tot Ion: 91 Resp: 284

Ion Ratio Lower Upper

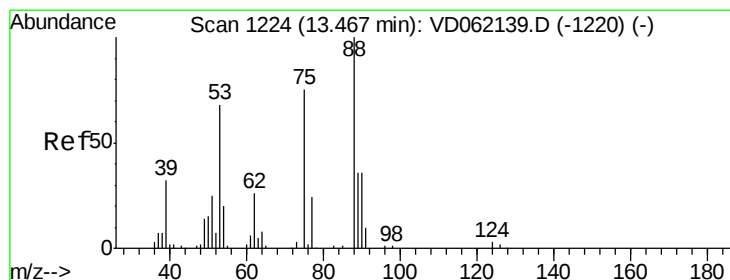
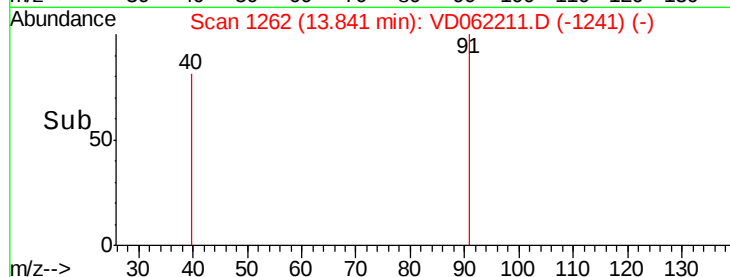
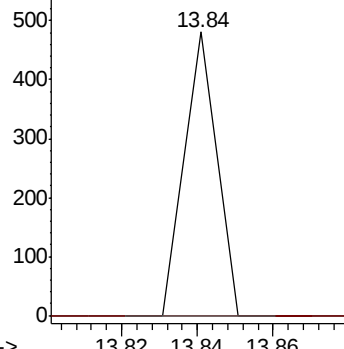
91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 85.572 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

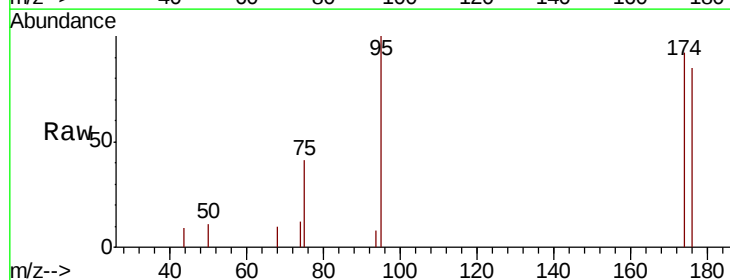
Tgt Ion: 75 Resp: 1726

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

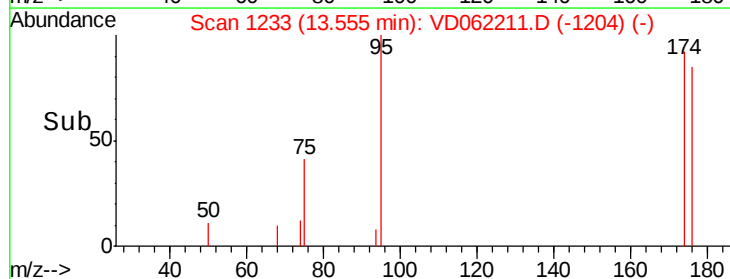
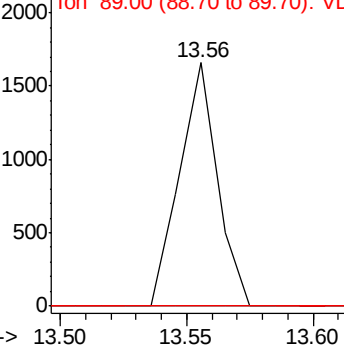
89 0.0 35.0 52.6#

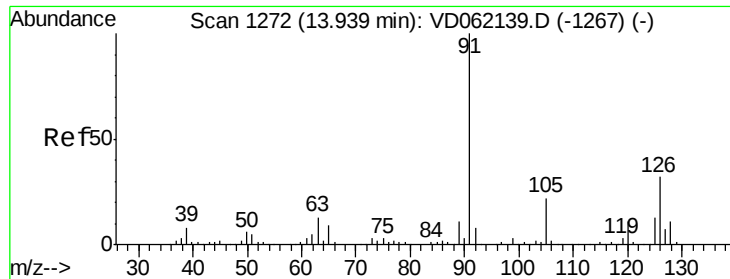


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 1.560 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

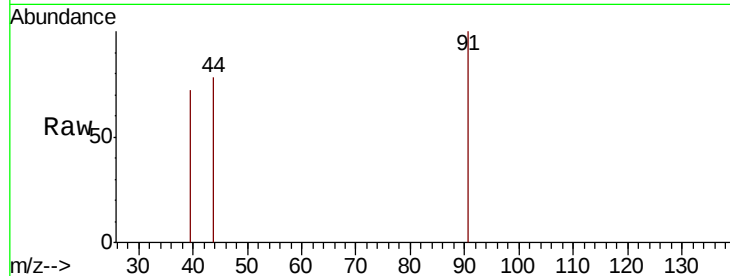
P026-SS004-1824-01RE

Tot Ion: 91 Resp: 452

Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

13.95

400

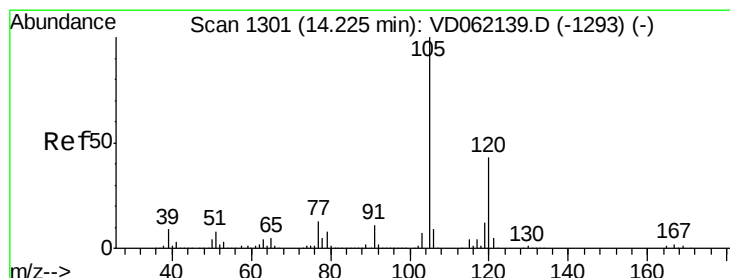
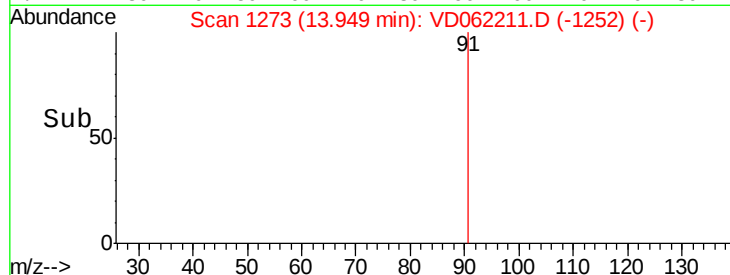
300

200

100

0

Time--> 13.90 13.95



#84

1,2,4-Trimethylbenzene

Concen: 1.836 ug/l

RT: 14.37 min Scan# 1316

Delta R.T. 0.15 min

Lab File: VD062211.D

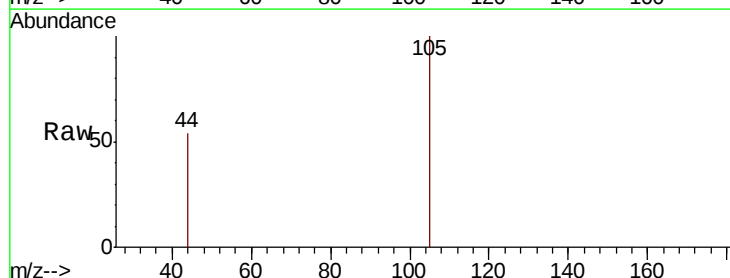
Acq: 10 May 2019 13:12

Tgt Ion: 105 Resp: 559

Ion Ratio Lower Upper

105 100

120 0.0 23.1 69.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

14.37

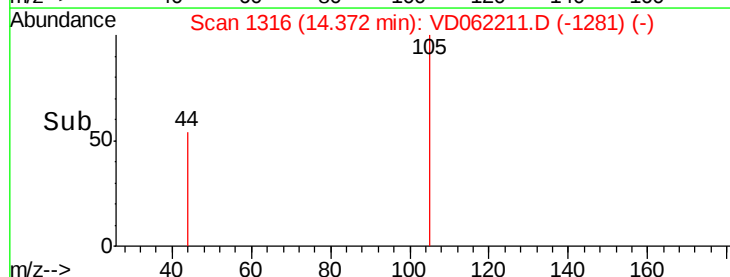
600

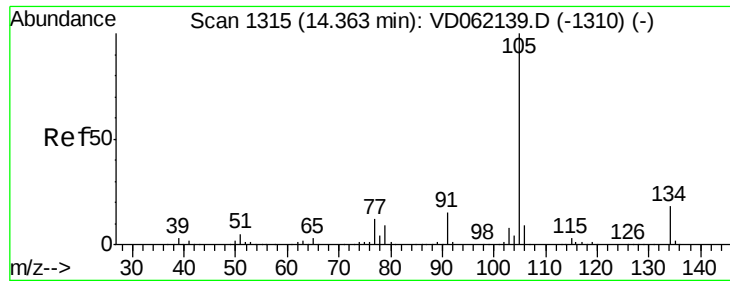
400

200

0

Time--> 14.34 14.36 14.38

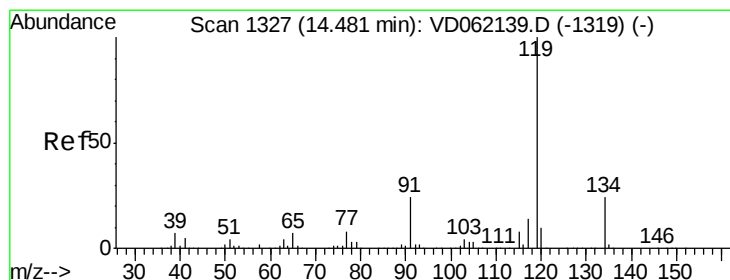
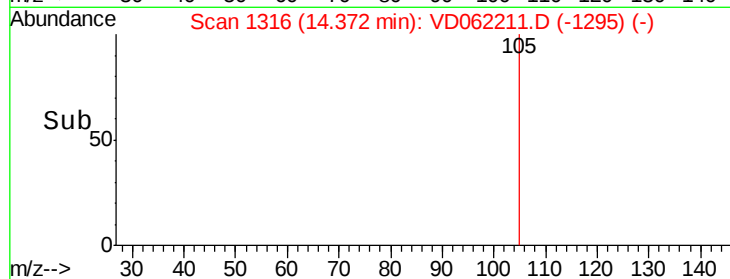
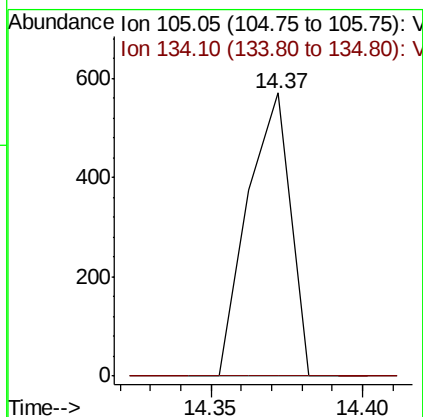
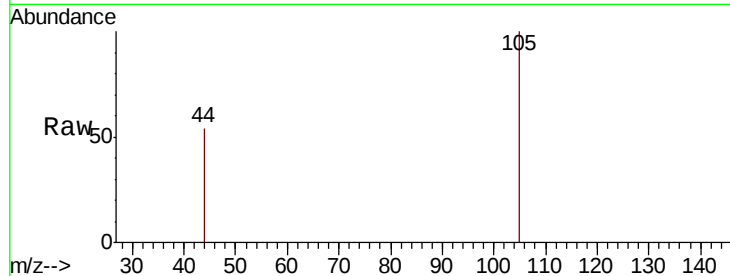




#85
 sec-Butylbenzene
 Concen: 1.495 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD062211.D
 Acq: 10 May 2019 13:12

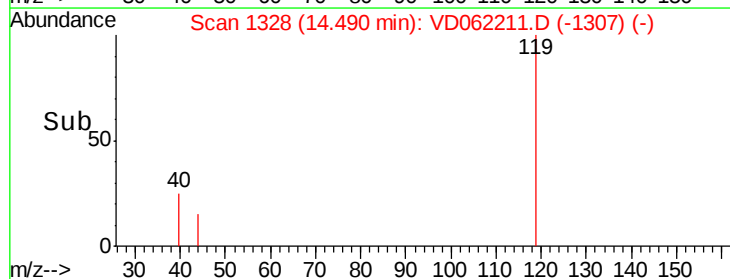
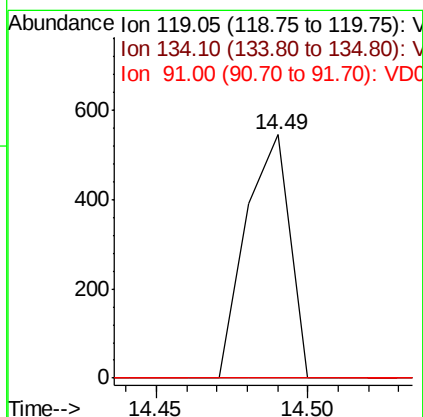
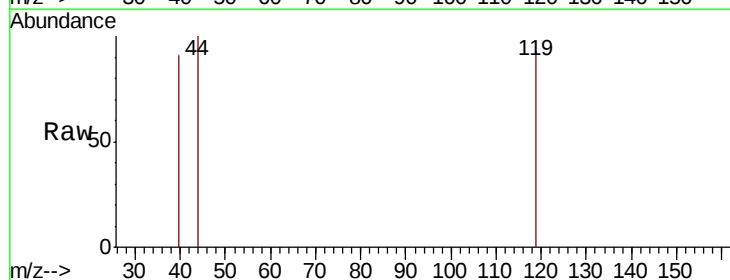
Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS004-1824-01RE

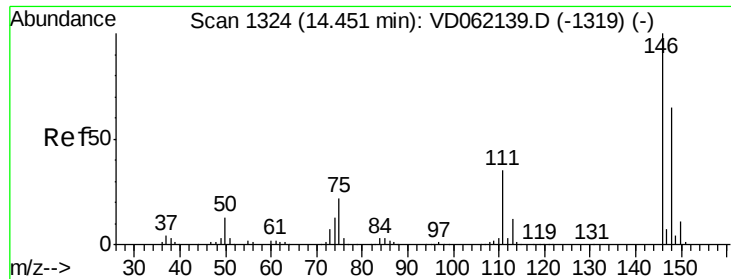
Tot Ion:105 Resp: 559
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#



#86
 p-Isopropyltoluene
 Concen: 1.655 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062211.D
 Acq: 10 May 2019 13:12

Tgt Ion:119 Resp: 553
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.8 38.3#
 91 0.0 10.7 32.1#

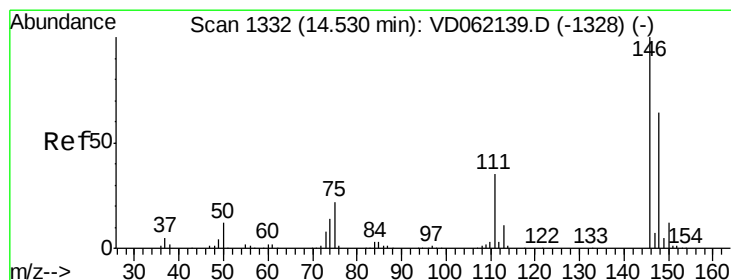
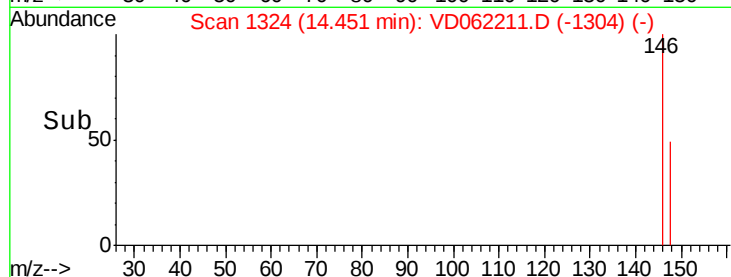
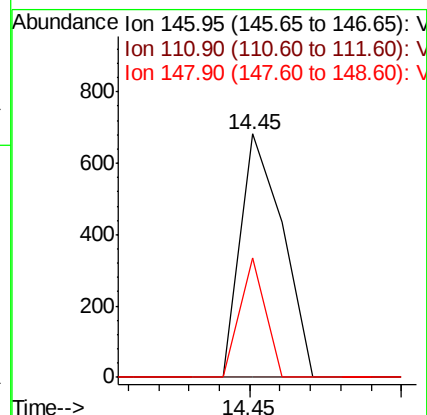
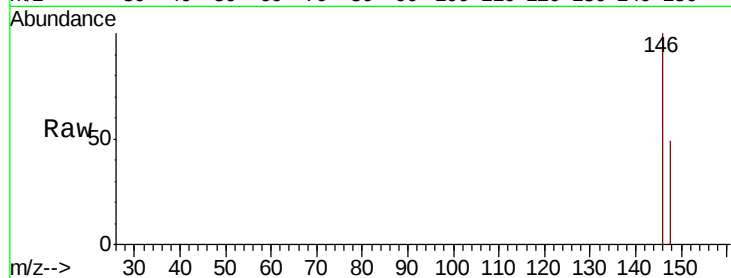




#87
 1,3-Dichlorobenzene
 Concen: 3.576 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD062211.D
 Acq: 10 May 2019 13:12

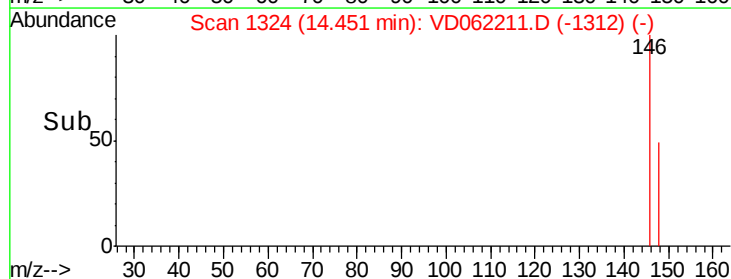
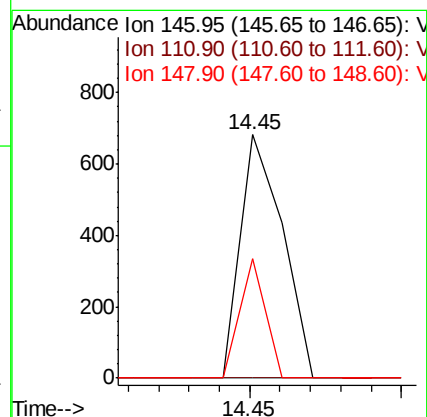
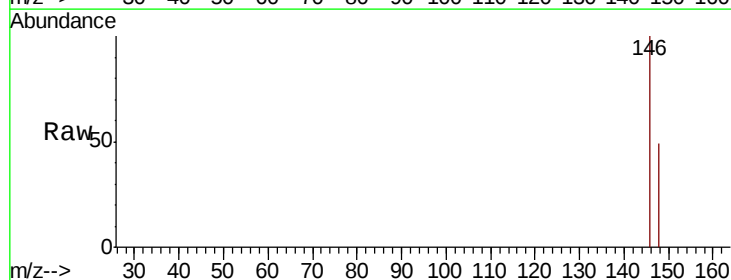
Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS004-1824-01RE

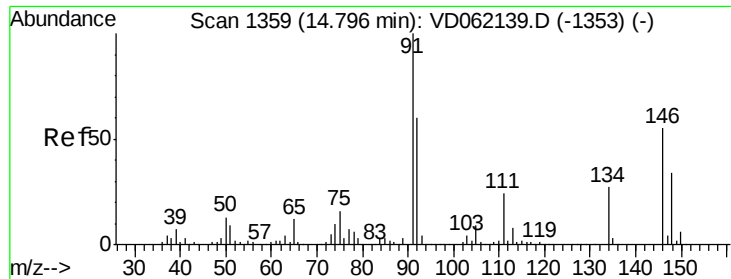
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.0	60.0#
148	49.1	31.8	95.4



#88
 1,4-Dichlorobenzene
 Concen: 3.639 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.08 min
 Lab File: VD062211.D
 Acq: 10 May 2019 13:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.2	60.5#
148	49.1	32.0	96.2





#91

1,2-Dichlorobenzene

Concen: 1.423 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

Instrument :

MSVOA_D

ClientSampleId :

P026-SS004-1824-01RE

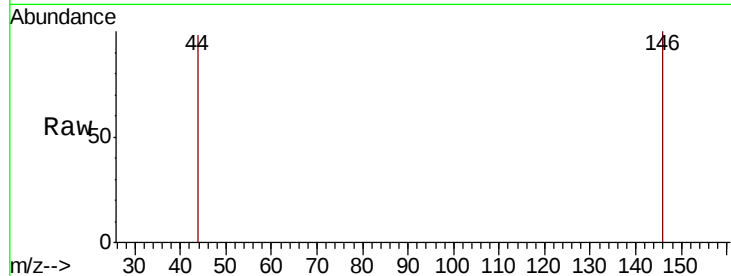
Tot Ion:146 Resp: 216

Ion Ratio Lower Upper

146 100

111 0.0 20.0 59.9#

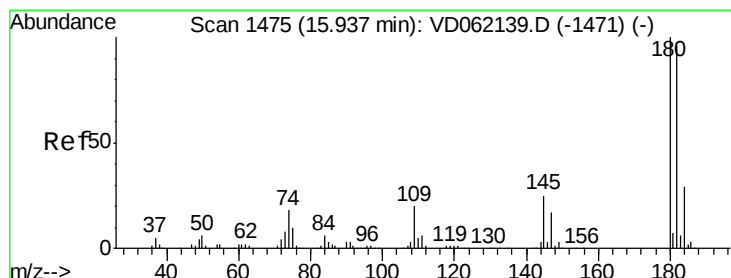
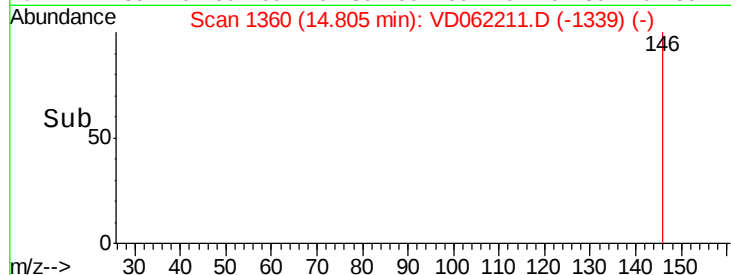
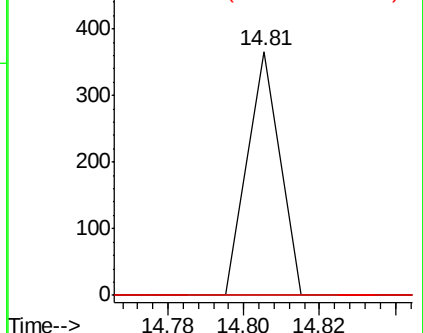
148 0.0 32.3 96.8#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 2.870 ug/l

RT: 15.95 min Scan# 1476

Delta R.T. 0.01 min

Lab File: VD062211.D

Acq: 10 May 2019 13:12

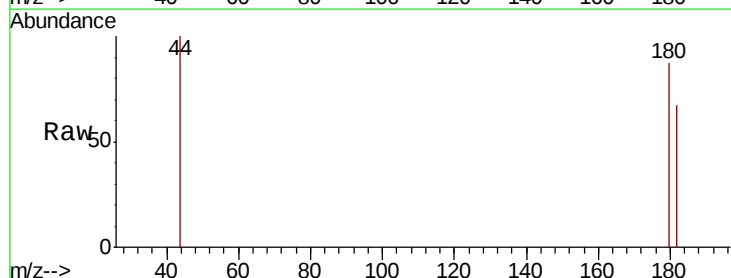
Tgt Ion:180 Resp: 317

Ion Ratio Lower Upper

180 100

182 77.1 49.3 147.8

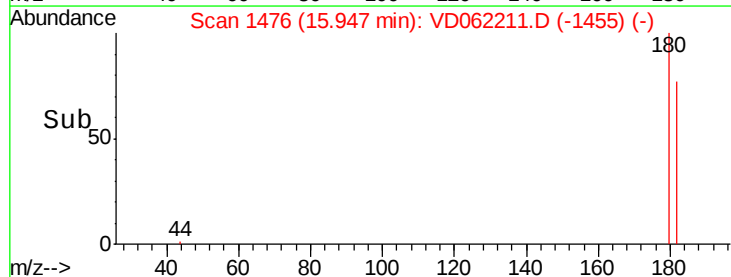
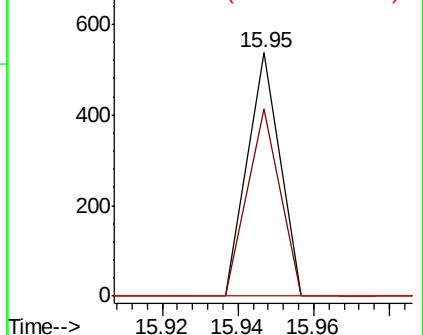
145 0.0 16.2 48.6#

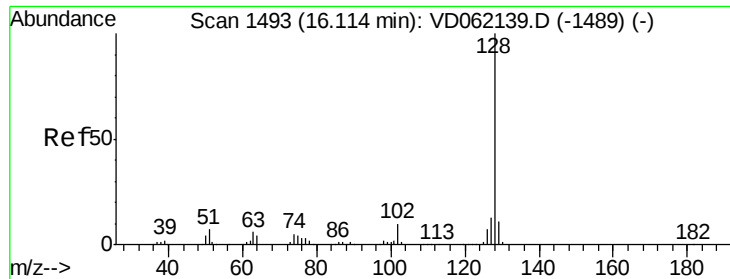


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

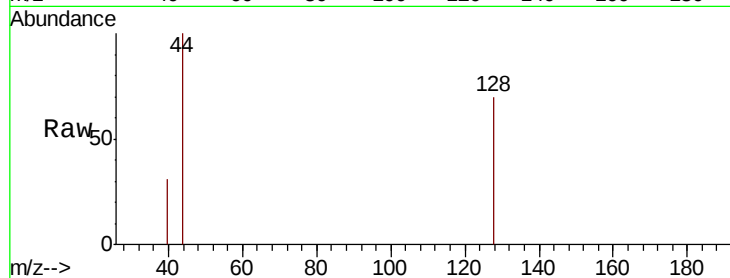




#95
Naphthalene
Concen: 2.632 ug/l
RT: 16.12 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062211.D
Acq: 10 May 2019 13:12

Instrument :
MSVOA_D
ClientSampleId :
P026-SS004-1824-01RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.8#
129	0.0	8.8	13.2#



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

