

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD050919\
 Data File : VD062198.D
 Acq On : 9 May 2019 19:56
 Operator : FY/SY
 Sample : K2717-05
 Misc : 6.00g/5mL/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS001-1824-01

Quant Time: May 10 04:22:16 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	7.03	168	4215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	11820	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	13666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	7422	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.43	65	25058	639.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	1279.44%	
35) Dibromofluoromethane	6.91	113	13096	133.53	ug/l	0.02
Spiked Amount	50.000		Recovery	=	267.06%	
50) Toluene-d8	10.39	98	11861	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	13.54	95	8860	93.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	186.62%	

Target Compounds						Qvalue
5) Bromomethane	2.17	94	586	87.360	ug/l #	12
10) Methyl Iodide	3.31	142	1144	17.978	ug/l #	83
16) Acetone	3.20	43	2608	317.488	ug/l #	90
18) Methyl Acetate	3.65	43	290	19.555	ug/l #	53
20) Methylene Chloride	3.81	84	4368	127.353	ug/l #	70
23) Vinyl Acetate	4.95	43	210	4.003	ug/l #	77
59) 2-Hexanone	11.52	43	188	6.808	ug/l #	27
67) Ethyl Benzene	12.52	91	888	2.084	ug/l #	44
70) Styrene	13.06	104	939	3.846	ug/l #	60
73) Isopropylbenzene	13.39	105	455	1.023	ug/l #	51
74) N-amyl acetate	13.23	43	192	1.646	ug/l #	49
78) n-propylbenzene	13.76	91	747	1.408	ug/l #	54
79) 2-Chlorotoluene	13.94	91	850	2.797	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.54	75	4047	162.526	ug/l #	16
82) 4-Chlorotoluene	13.94	91	850	2.376	ug/l	100
86) p-Isopropyltoluene	14.48	119	510	1.236	ug/l #	52
87) 1,3-Dichlorobenzene	14.53	146	1001	4.400	ug/l	96
88) 1,4-Dichlorobenzene	14.53	146	1001	4.478	ug/l	96
89) n-Butylbenzene	14.79	91	376	1.016	ug/l #	28
91) 1,2-Dichlorobenzene	14.80	146	289	1.542	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.93	180	520	3.813	ug/l #	11
95) Naphthalene	16.11	128	866	4.548	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD062198.D

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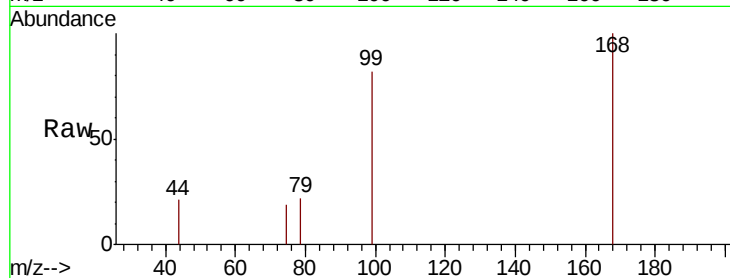
P026-SS001-1824-01

Tgt Ion:168 Resp: 4215

Ion Ratio Lower Upper

168 100

99 82.1 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

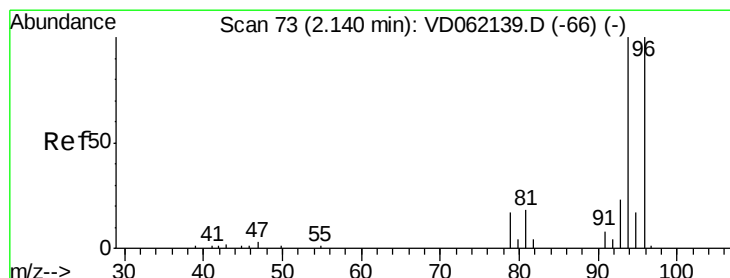
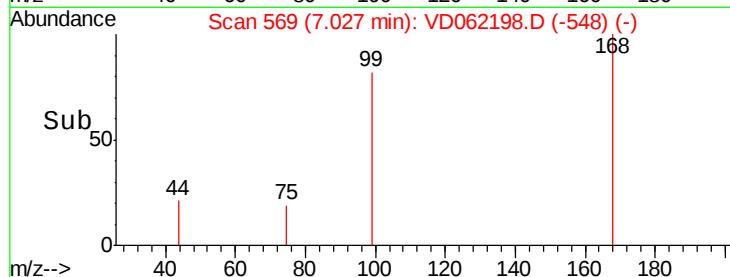
1500

1000

500

0

Time--> 6.95 7.00 7.05 7.10



#5

Bromomethane

Concen: 87.360 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.03 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

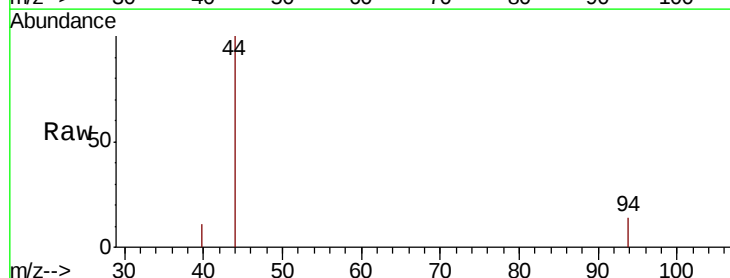
Tgt Ion: 94 Resp: 586

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

2.17

800

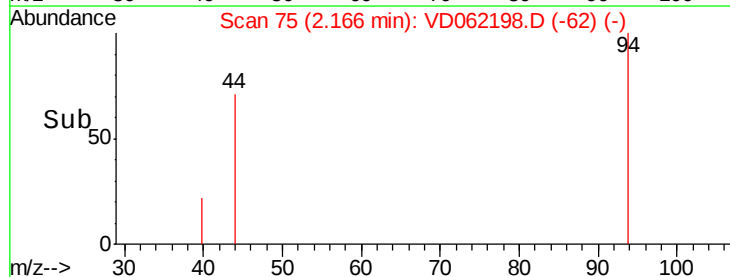
600

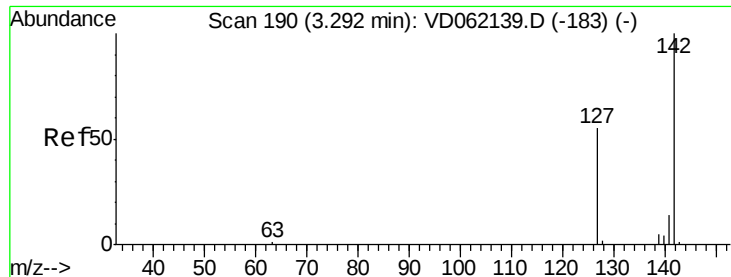
400

200

0

Time--> 2.14 2.16 2.18 2.20

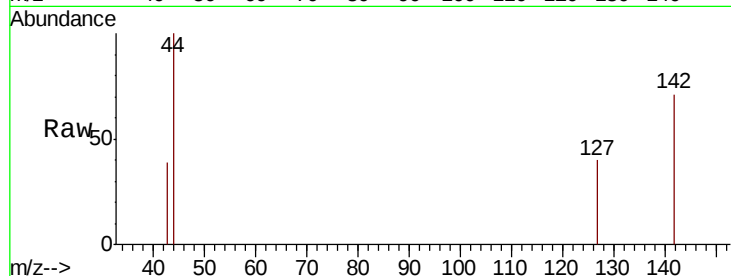




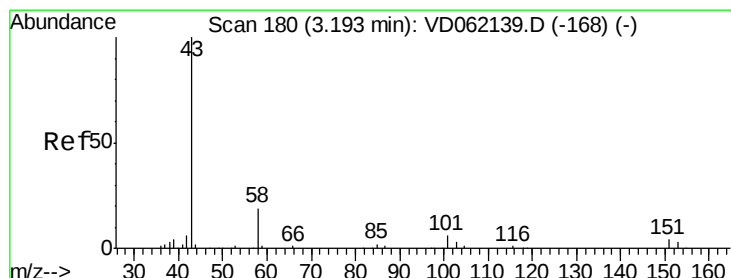
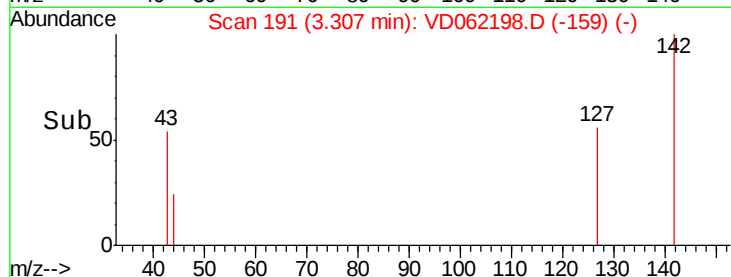
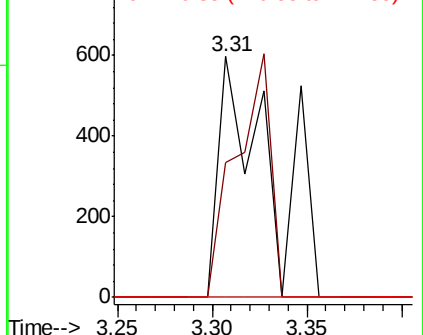
#10
Methyl Iodide
Concen: 17.978 ug/l
RT: 3.31 min Scan# 191
Delta R.T. 0.02 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Instrument :
MSVOA_D
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Tgt Ion:142 Resp: 1144
Ion Ratio Lower Upper
142 100
127 56.1 38.8 58.2
141 0.0 11.4 17.0#

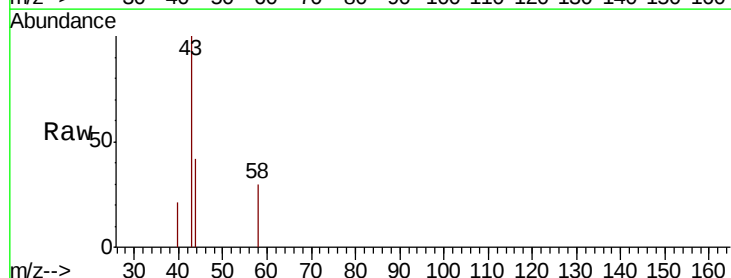


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

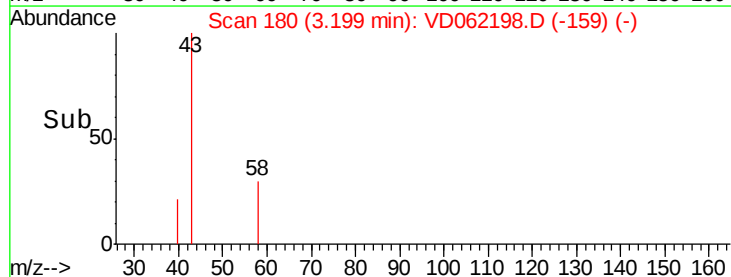
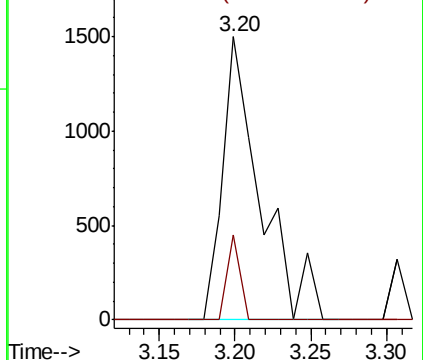


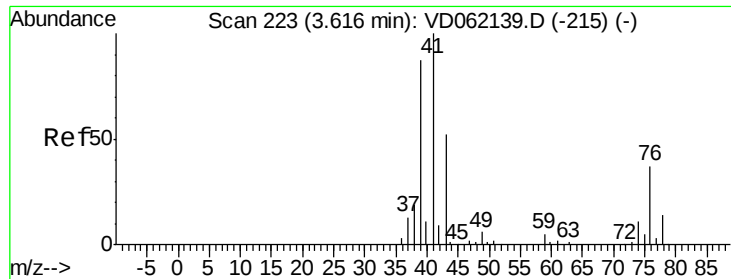
#16
Acetone
Concen: 317.488 ug/l
RT: 3.20 min Scan# 180
Delta R.T. 0.01 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Tgt Ion: 43 Resp: 2608
Ion Ratio Lower Upper
43 100
58 29.9 19.9 29.9#



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

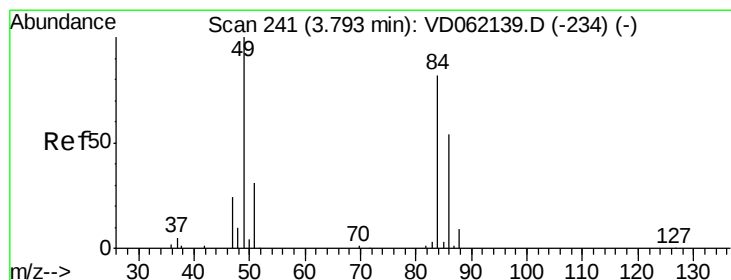
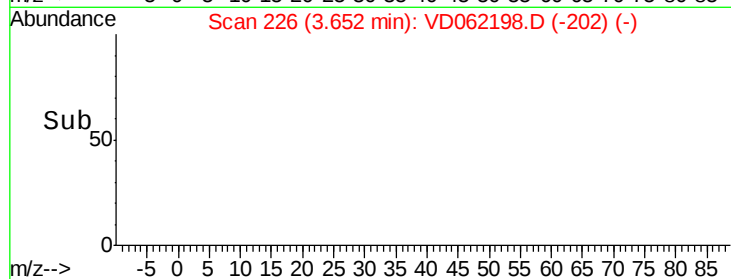
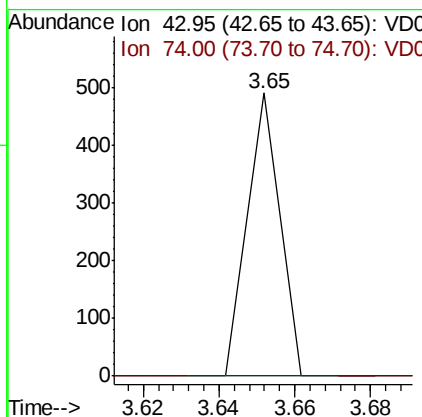
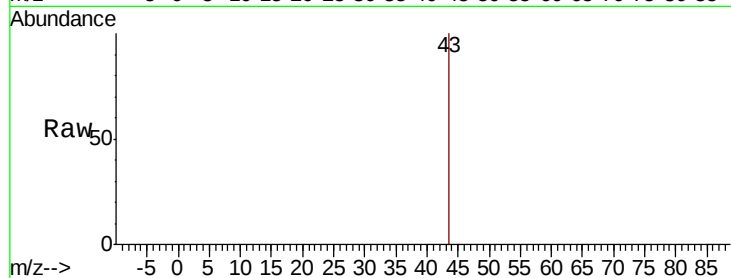




#18
Methyl Acetate
Concen: 19.555 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.04 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

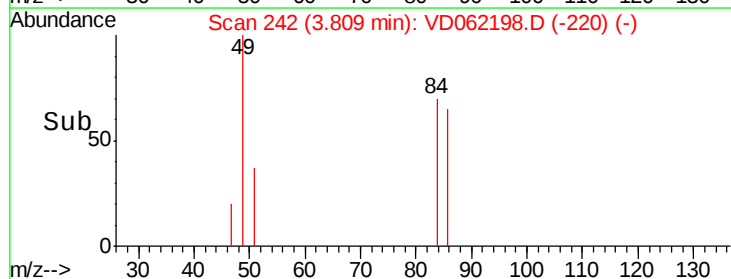
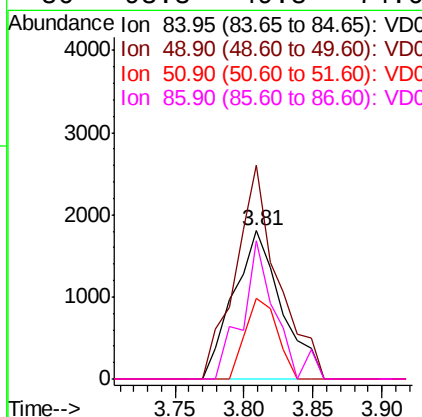
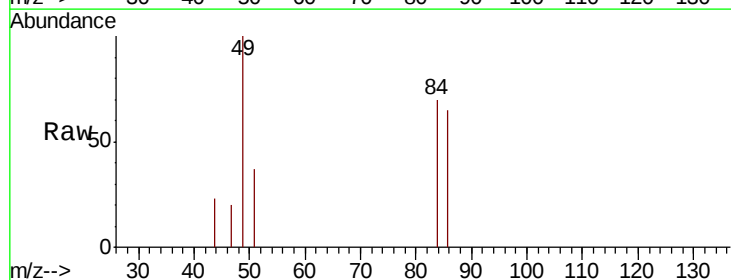
Instrument :
MSVOA_D
ClientSampleId :
P026-SS001-1824-01

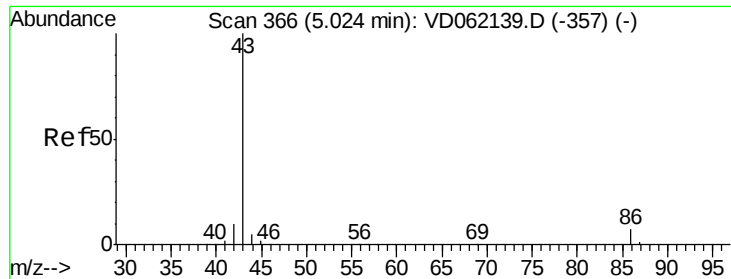
Tgt Ion: 43 Resp: 290
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 127.353 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.02 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Tgt Ion: 84 Resp: 4368
Ion Ratio Lower Upper
84 100
49 143.9 94.0 141.0#
51 53.9 29.0 43.4#
86 93.3 49.8 74.6#

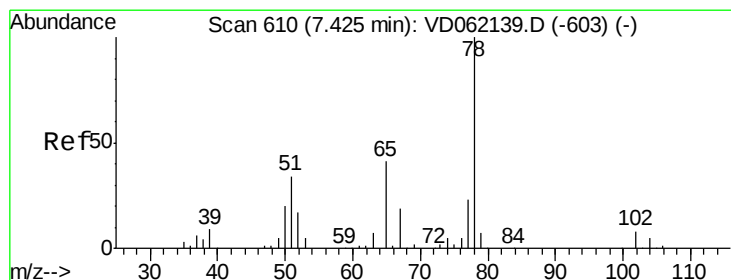
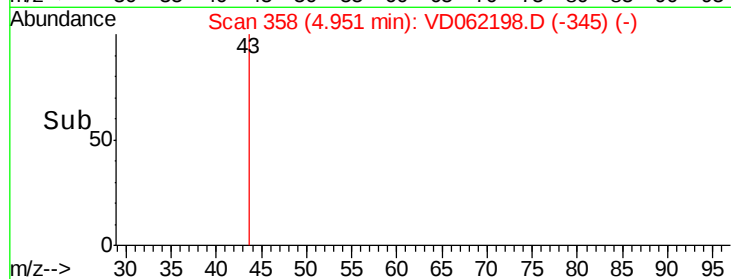
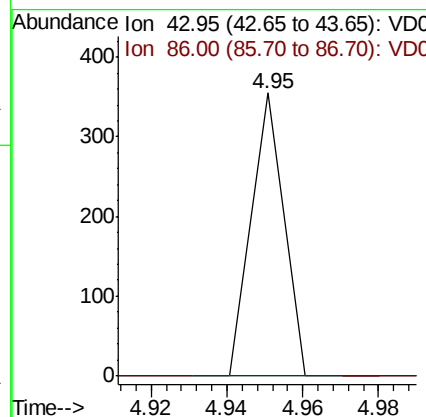
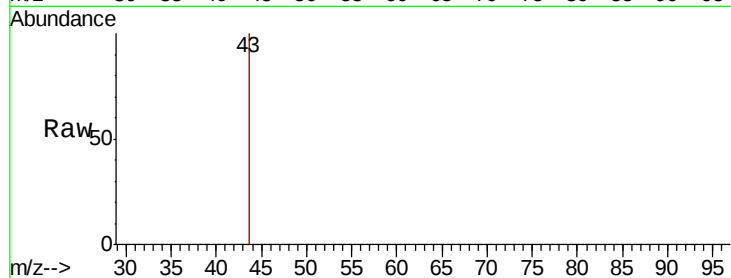




#23
 Vinyl Acetate
 Concen: 4.003 ug/l
 RT: 4.95 min Scan# 358
 Delta R.T. -0.07 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

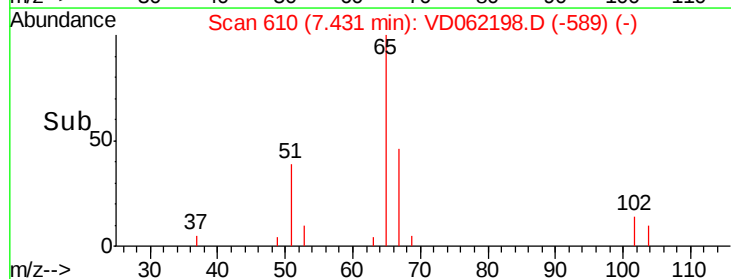
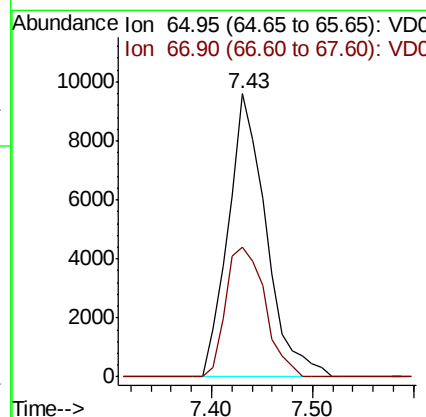
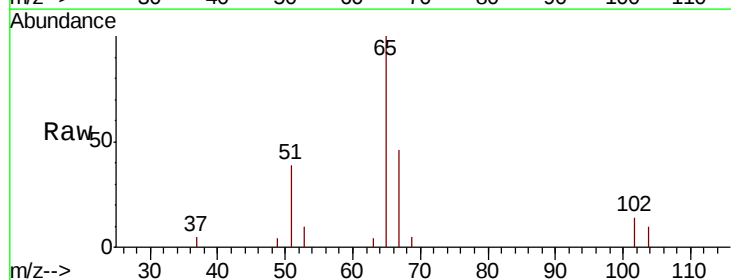
Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS001-1824-01

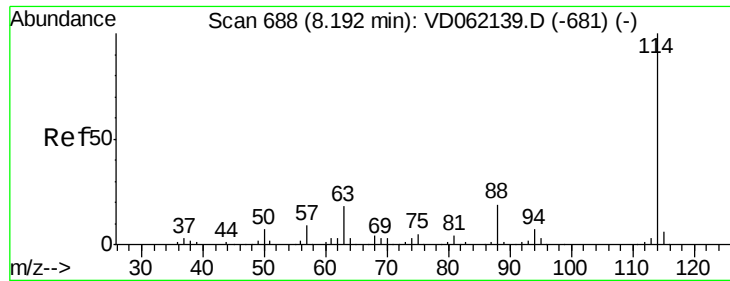
Tgt Ion: 43 Resp: 210
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.4 9.6#



#33
 1,2-Dichloroethane-d4
 Concen: 639.716 ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. 0.01 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

Tgt Ion: 65 Resp: 25058
 Ion Ratio Lower Upper
 65 100
 67 45.7 0.0 98.0

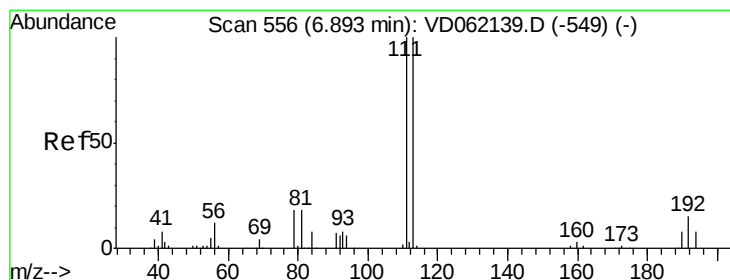
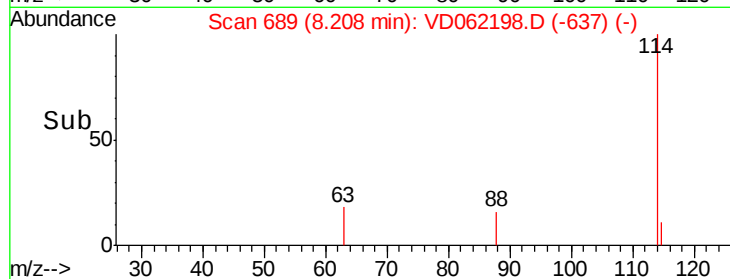
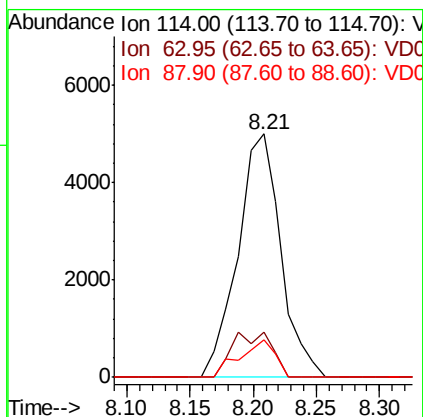
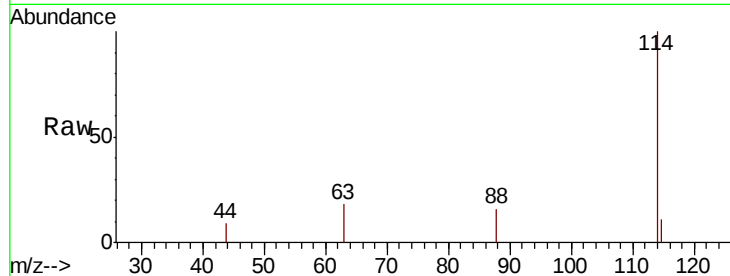




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.02 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

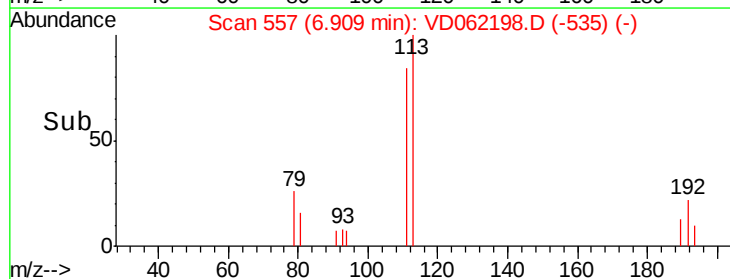
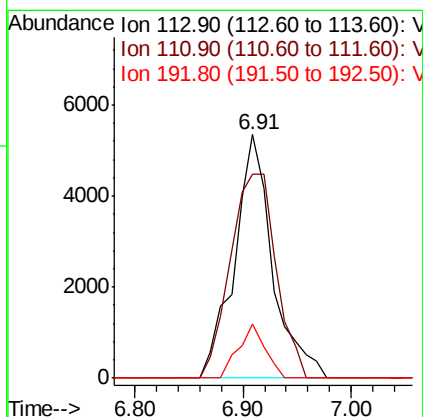
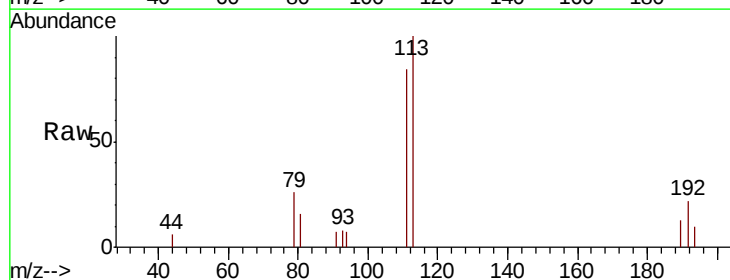
Instrument :
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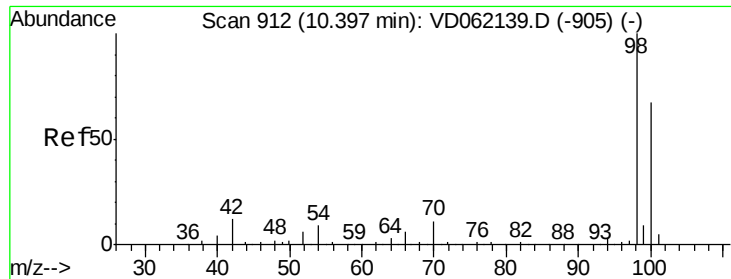
Tgt Ion:114 Resp: 11820
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 32.4
 88 14.1 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 133.535 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. 0.02 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

Tgt Ion:113 Resp: 13096
 Ion Ratio Lower Upper
 113 100
 111 83.7 78.5 117.7
 192 22.5 13.0 19.4#

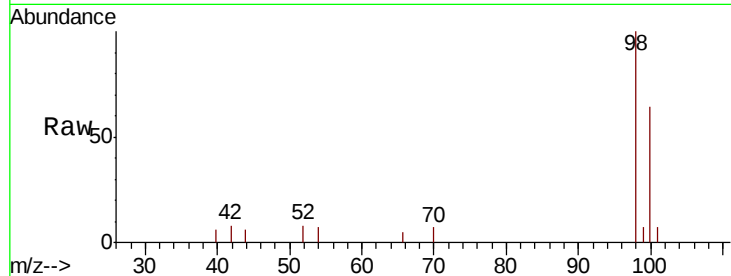




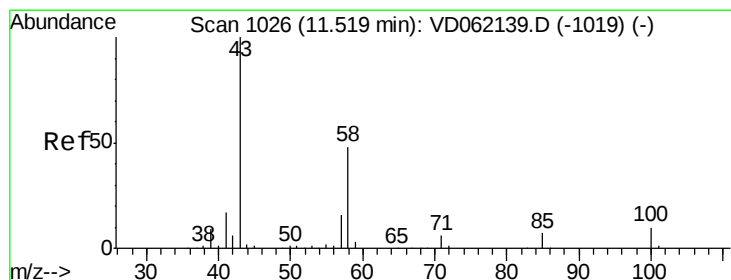
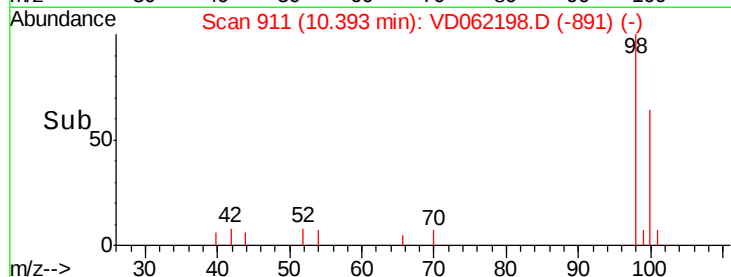
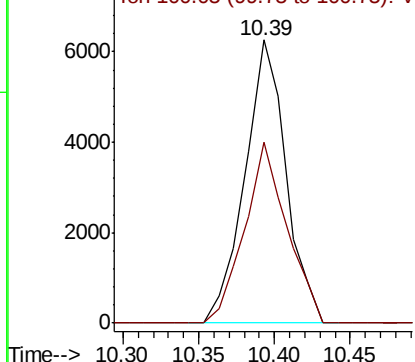
#50
Toluene-d8
Concen: 50.161 ug/l
RT: 10.39 min Scan# 911
Delta R.T. -0.00 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :
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Tgt Ion: 98 Resp: 11861
Ion Ratio Lower Upper
98 100
100 63.8 53.8 80.8

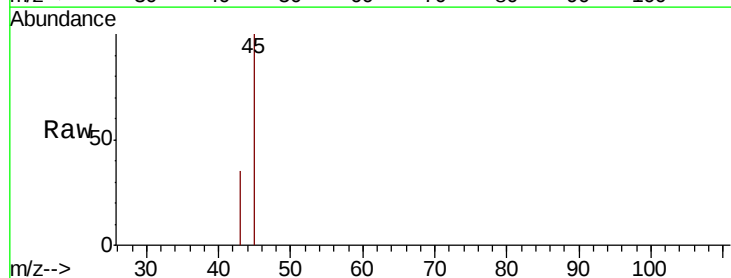


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

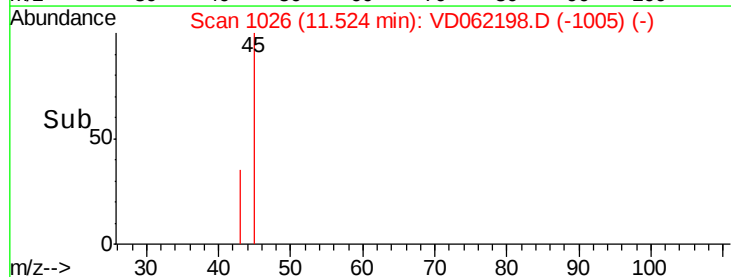
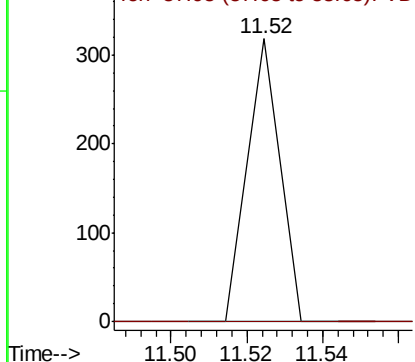


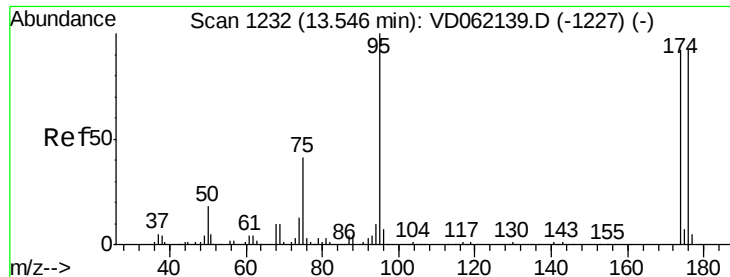
#59
2-Hexanone
Concen: 6.808 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Tgt Ion: 43 Resp: 188
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





#62

4-Bromofluorobenzene

Concen: 93.309 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

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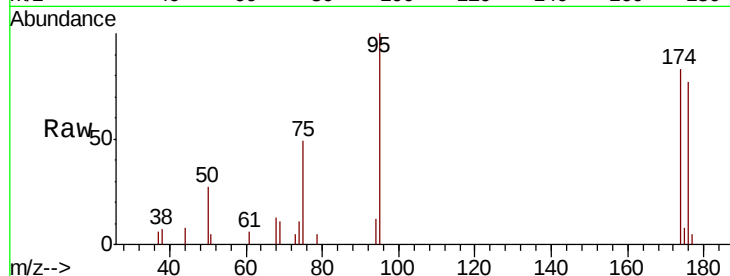
Tgt Ion: 95 Resp: 8860

Ion Ratio Lower Upper

95 100

174 82.9 0.0 181.8

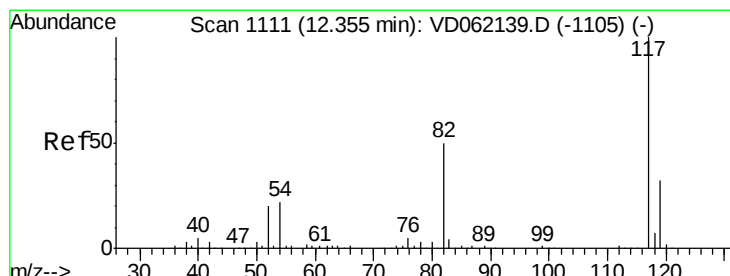
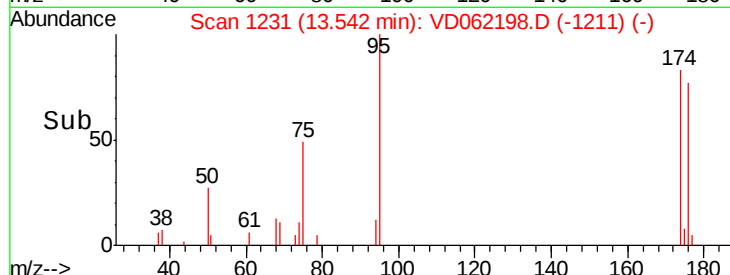
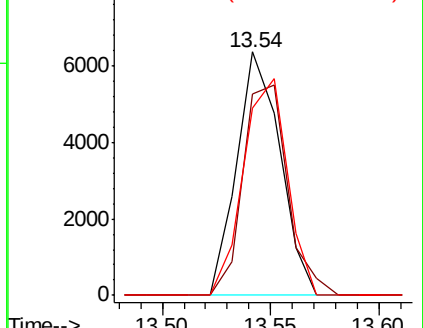
176 76.9 0.0 174.4



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# 1111

Delta R.T. 0.01 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

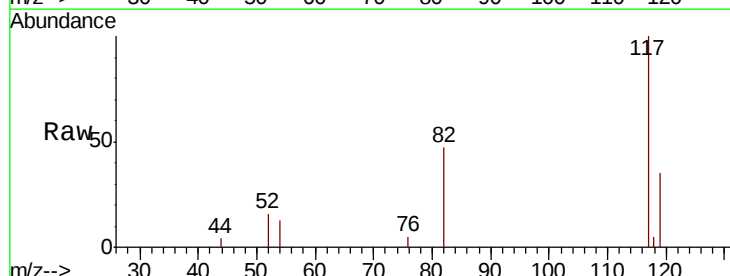
Tgt Ion: 117 Resp: 13666

Ion Ratio Lower Upper

117 100

82 47.2 36.2 54.2

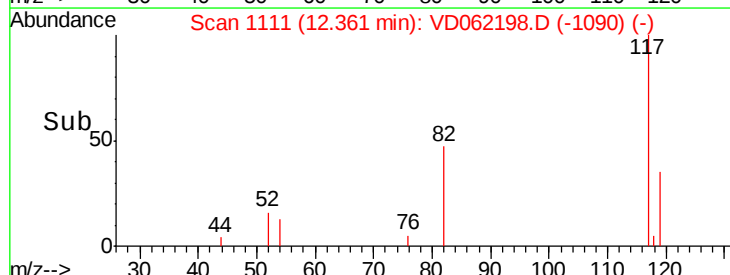
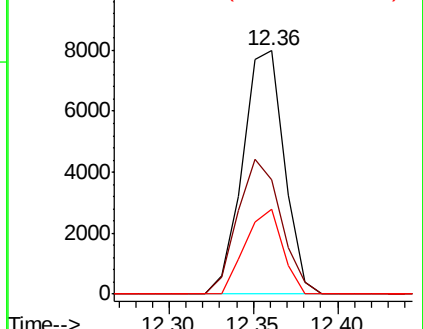
119 34.8 26.2 39.4

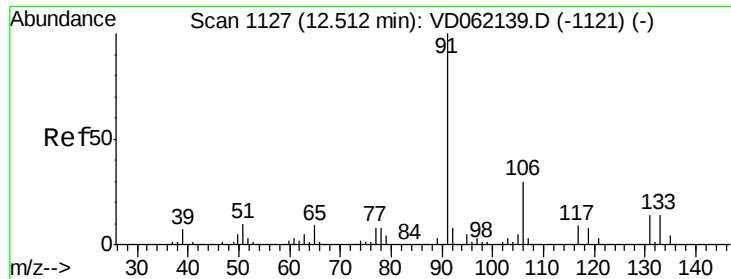


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

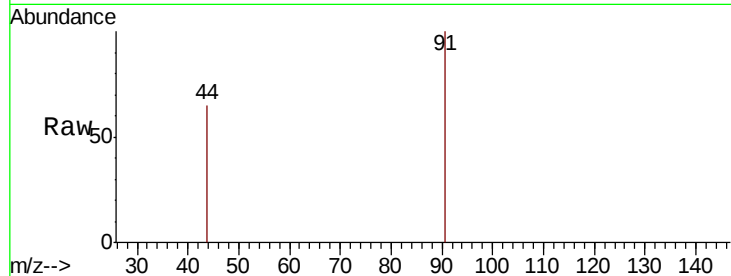




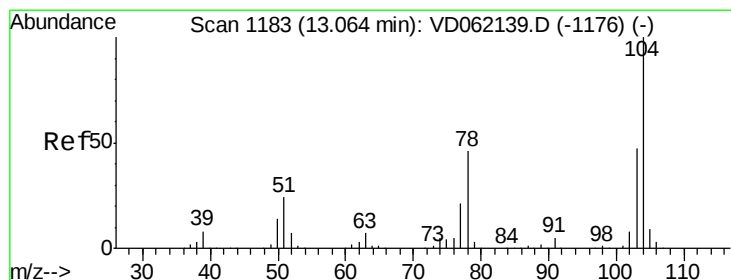
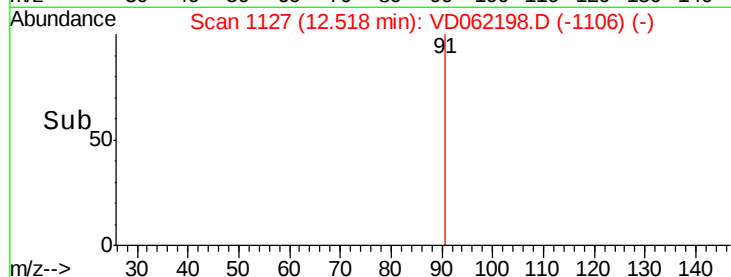
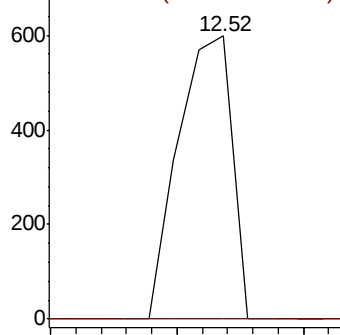
#67
Ethyl Benzene
Concen: 2.084 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :
P026-SS001-1824-01

Tgt Ion: 91 Resp: 888
Ion Ratio Lower Upper
91 100
106 0.0 24.7 37.1#

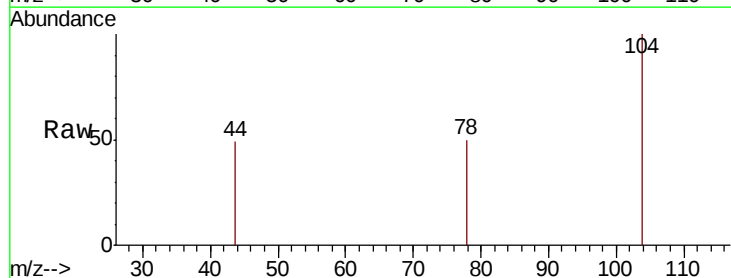


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): V

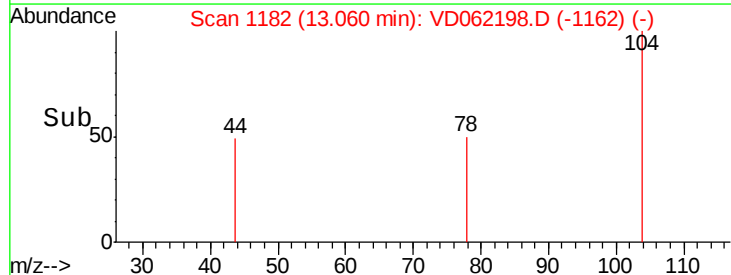
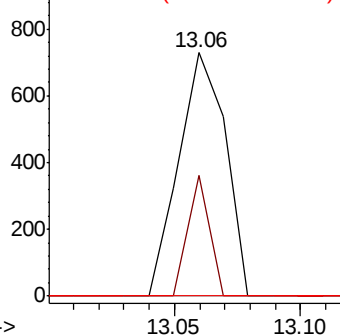


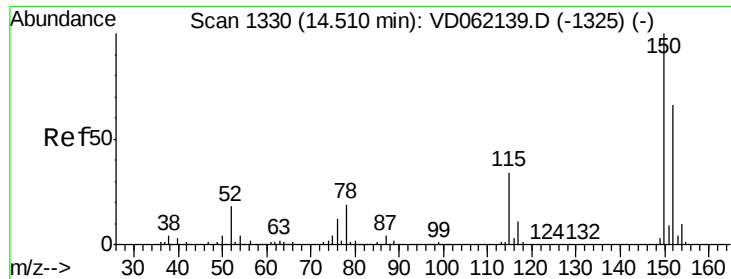
#70
Styrene
Concen: 3.846 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Tgt Ion: 104 Resp: 939
Ion Ratio Lower Upper
104 100
78 49.5 35.4 53.2
103 0.0 37.5 56.3#



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P026-SS001-1824-01

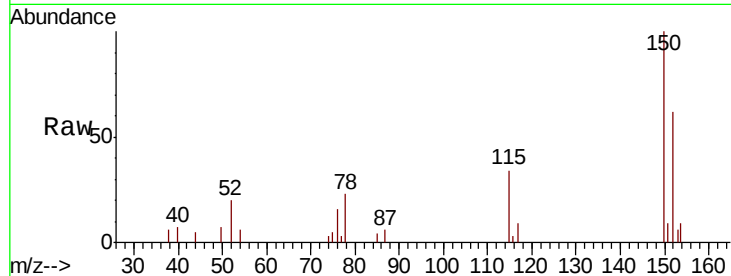
Tgt Ion:152 Resp: 7422

Ion Ratio Lower Upper

152 100

115 54.3 30.9 92.7

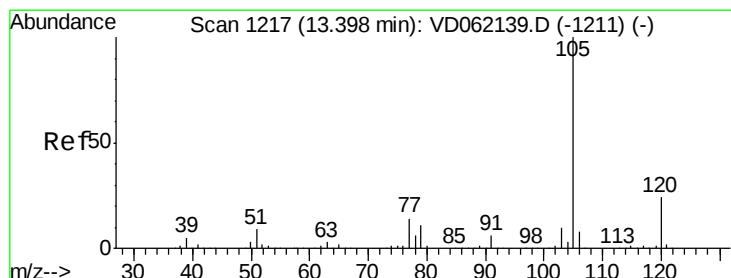
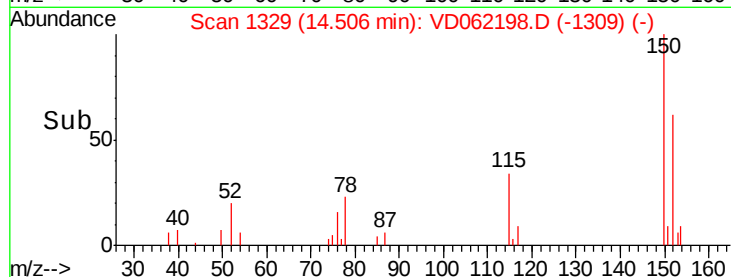
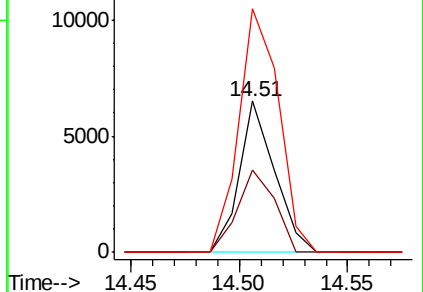
150 160.9 0.0 314.8



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: 1.023 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD062198.D

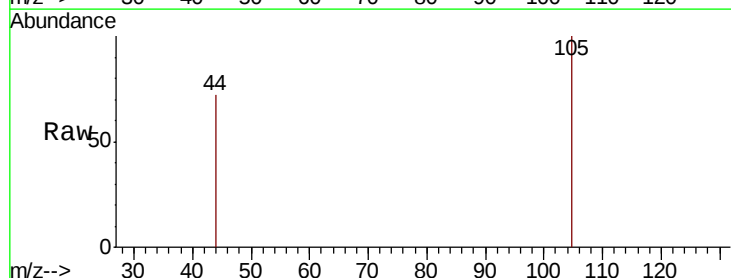
Acq: 9 May 2019 19:56

Tgt Ion:105 Resp: 455

Ion Ratio Lower Upper

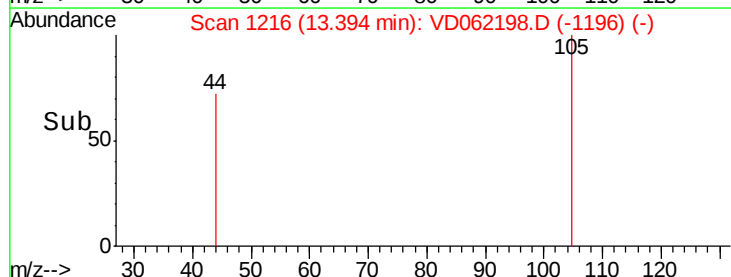
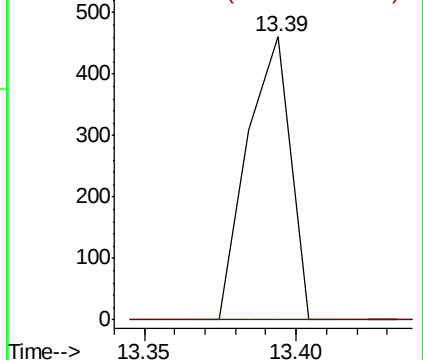
105 100

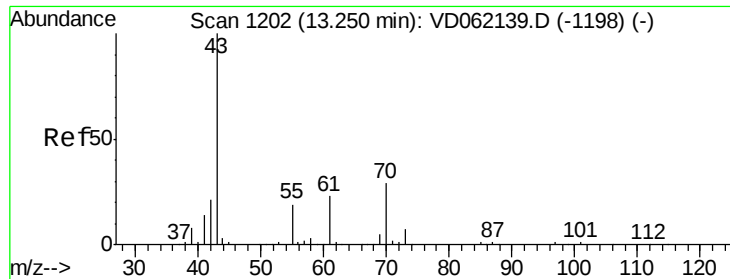
120 0.0 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amyI acetate

Concen: 1.646 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P026-SS001-1824-01

Tgt Ion: 43 Resp: 192

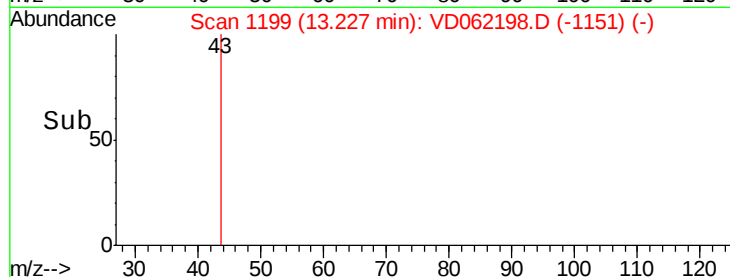
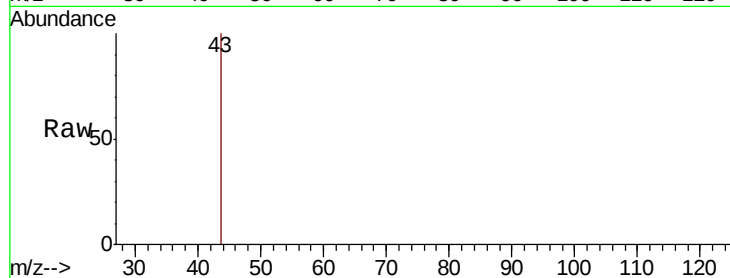
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

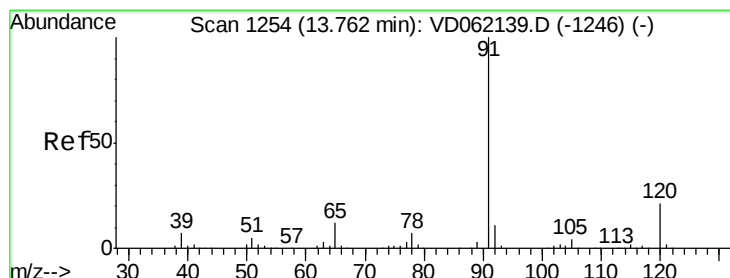
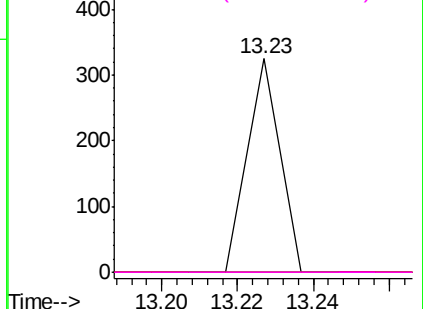


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#78

n-propylbenzene

Concen: 1.408 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VD062198.D

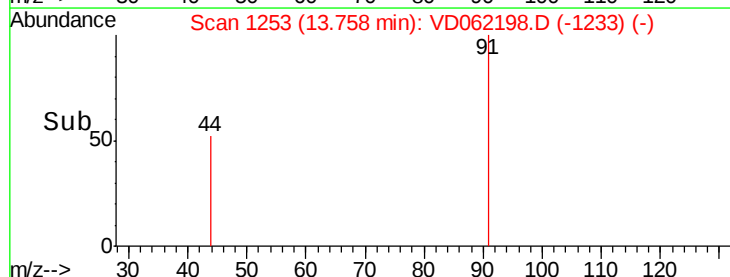
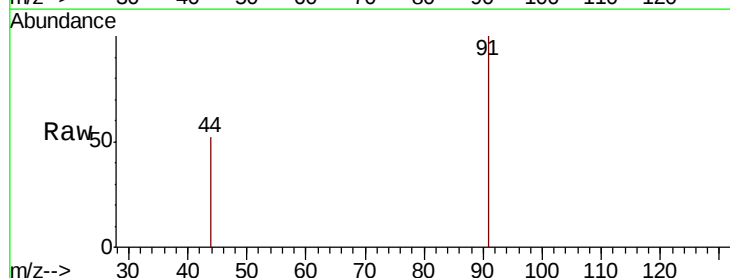
Acq: 9 May 2019 19:56

Tgt Ion: 91 Resp: 747

Ion Ratio Lower Upper

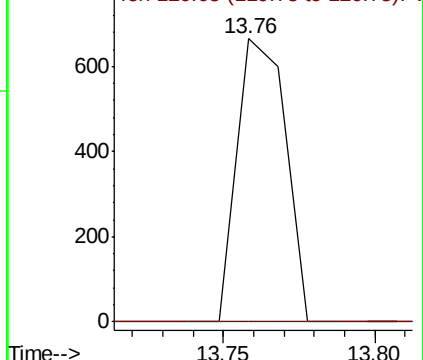
91 100

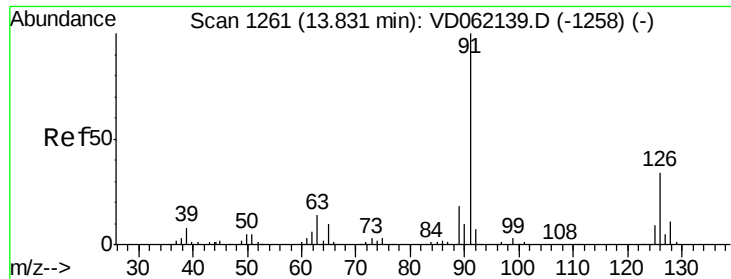
120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC





#79

2-Chlorotoluene

Concen: 2.797 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.10 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

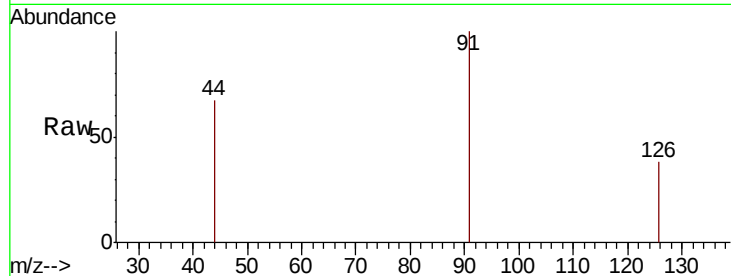
P026-SS001-1824-01

Tgt Ion: 91 Resp: 850

Ion Ratio Lower Upper

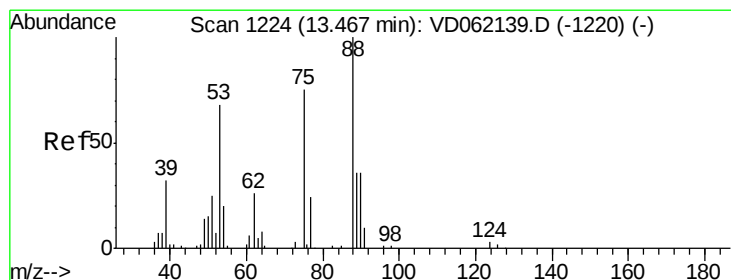
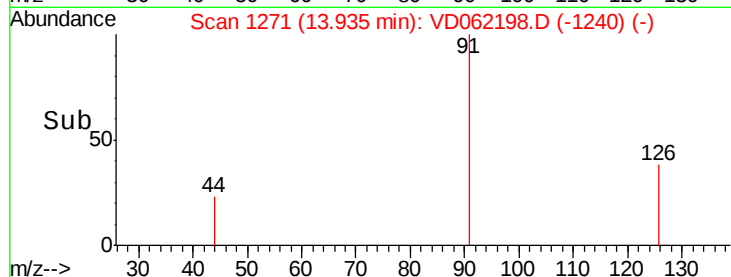
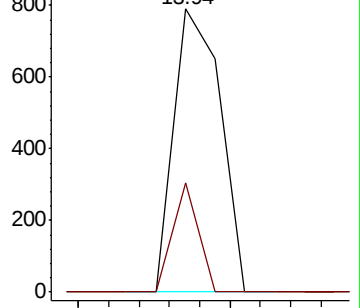
91 100

126 38.5 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: 162.526 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

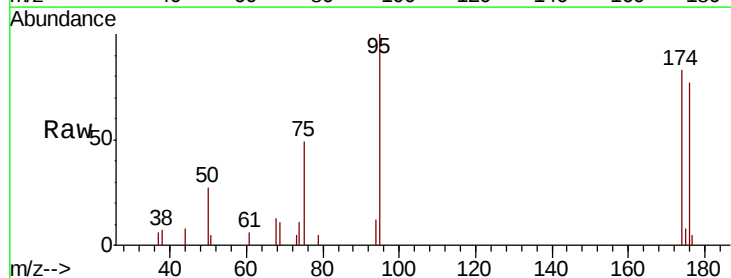
Tgt Ion: 75 Resp: 4047

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

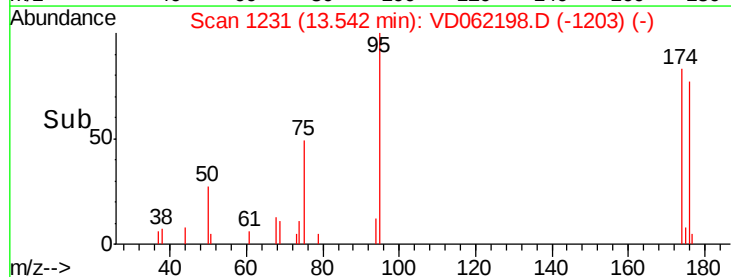
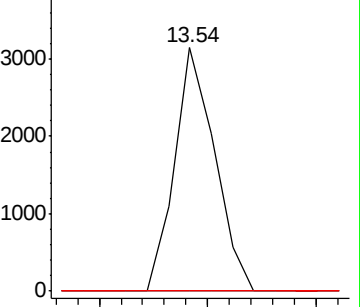
89 0.0 35.0 52.6#

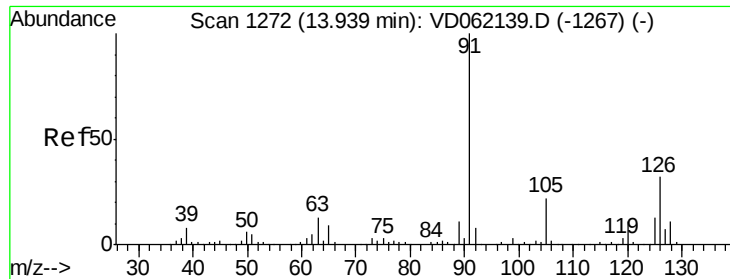


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

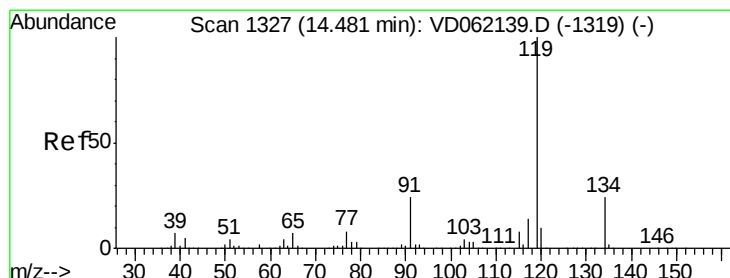
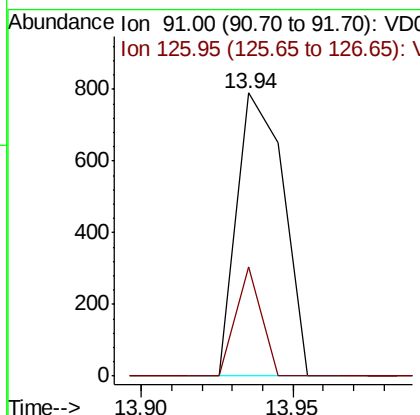
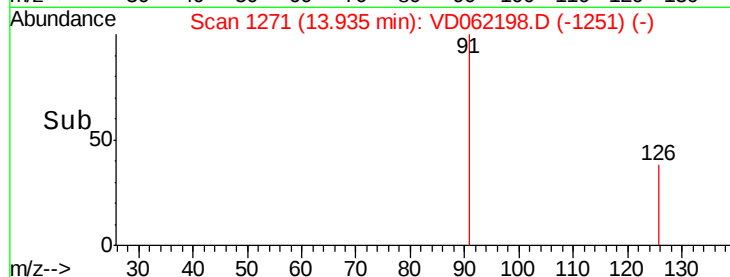
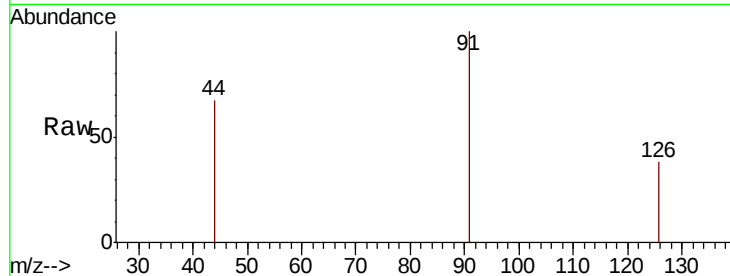




#82
4-Chlorotoluene
Concen: 2.376 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

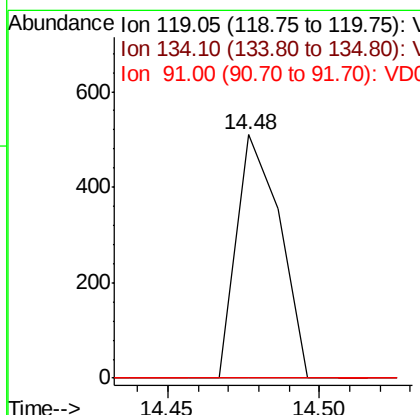
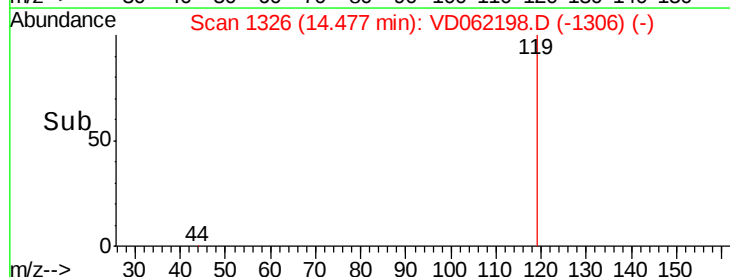
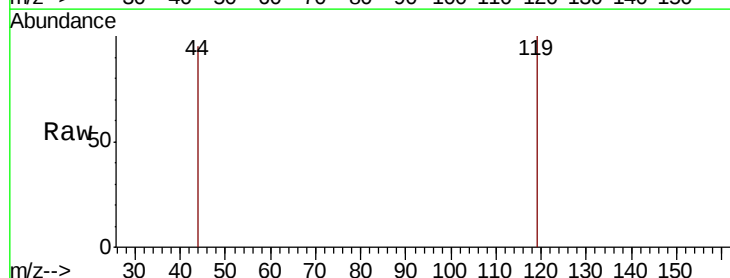
Instrument :
MSVOA_D
ClientSampleId :
P026-SS001-1824-01

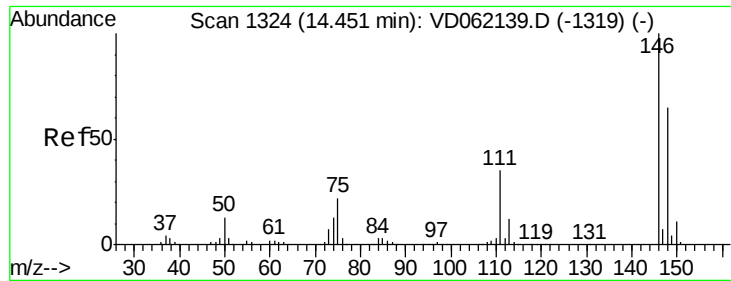
Tgt Ion: 91 Resp: 850
Ion Ratio Lower Upper
91 100
126 38.5 19.1 57.5



#86
p-Isopropyltoluene
Concen: 1.236 ug/l
RT: 14.48 min Scan# 1326
Delta R.T. -0.00 min
Lab File: VD062198.D
Acq: 9 May 2019 19:56

Tgt Ion: 119 Resp: 510
Ion Ratio Lower Upper
119 100
134 0.0 12.8 38.3#
91 0.0 10.7 32.1#

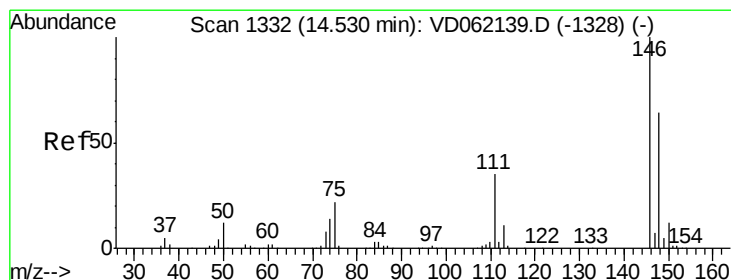
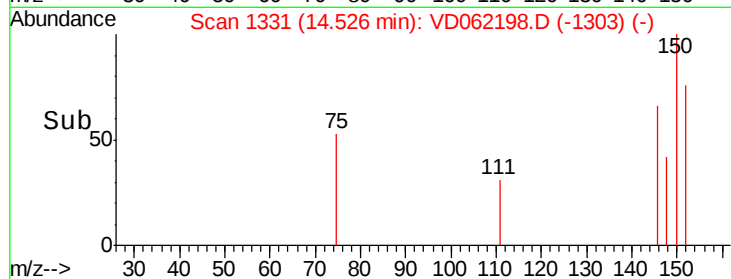
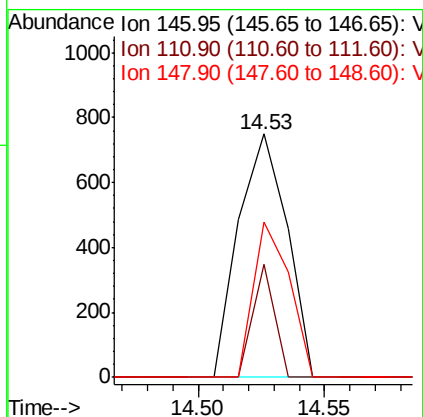
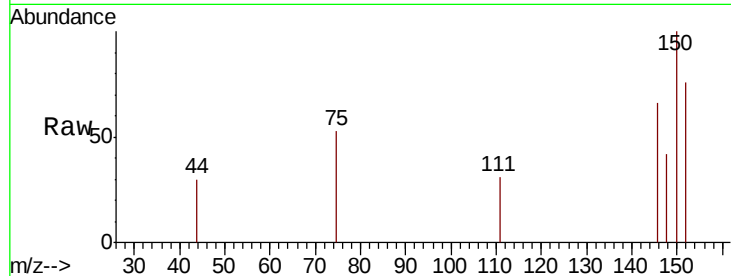




#87
 1,3-Dichlorobenzene
 Concen: 4.400 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.07 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

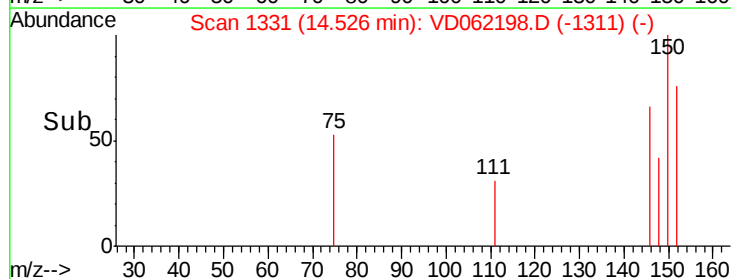
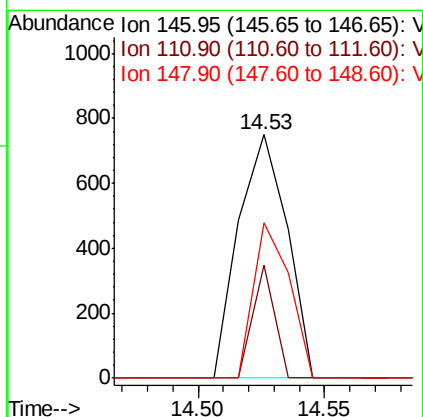
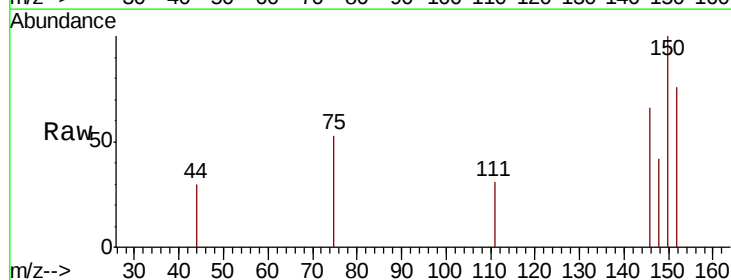
Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS001-1824-01

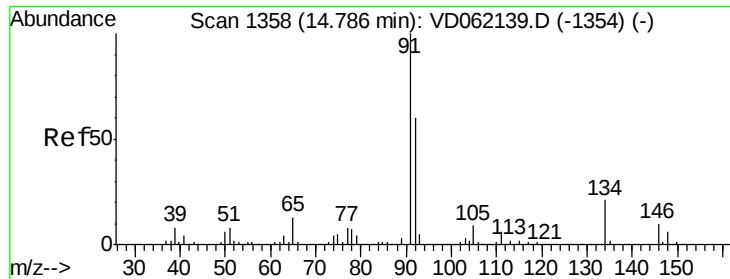
Tgt Ion:146 Resp: 1001
 Ion Ratio Lower Upper
 146 100
 111 46.3 20.0 60.0
 148 64.0 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 4.478 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

Tgt Ion:146 Resp: 1001
 Ion Ratio Lower Upper
 146 100
 111 46.3 20.2 60.5
 148 64.0 32.0 96.2





#89

n-Butylbenzene

Concen: 1.016 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.01 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P026-SS001-1824-01

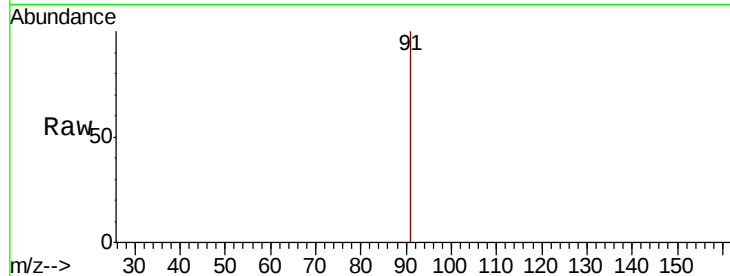
Tgt Ion: 91 Resp: 376

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

14.79

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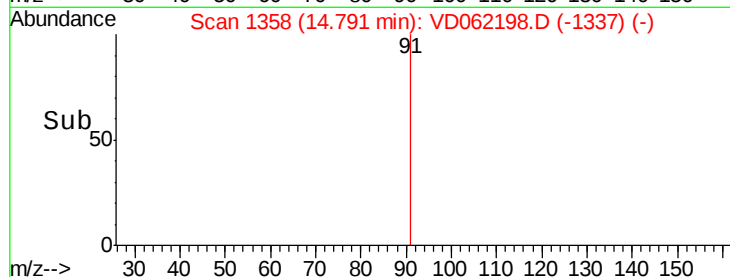
14.79

14.79

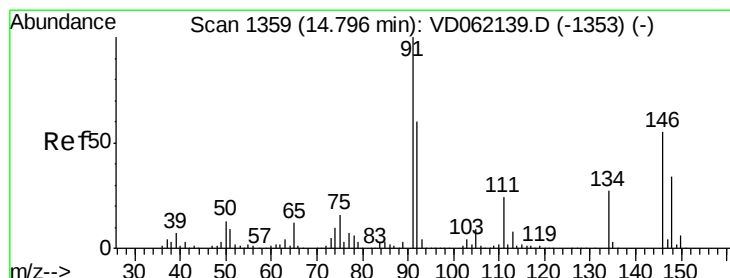
14.79

14.79

14.79



Time-->



#91

1,2-Dichlorobenzene

Concen: 1.542 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062198.D

Acq: 9 May 2019 19:56

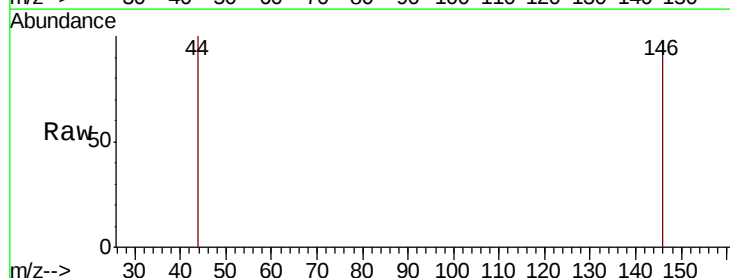
Tgt Ion: 146 Resp: 289

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

14.80

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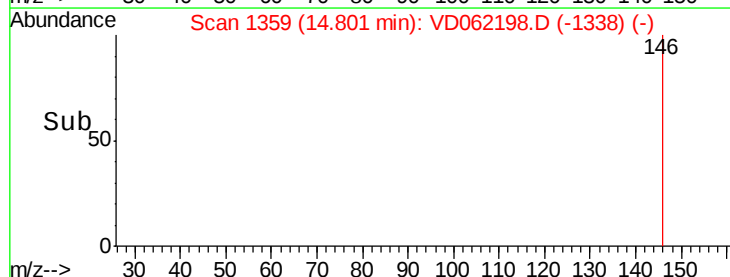
14.80

14.80

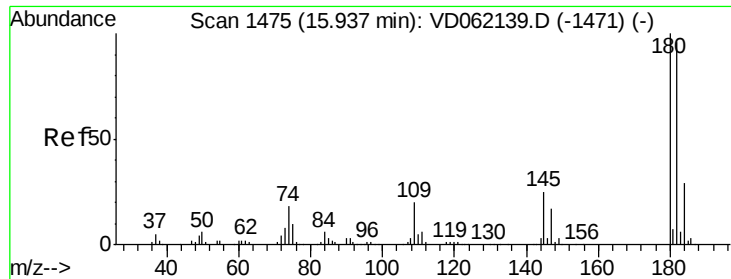
14.80

14.80

14.80



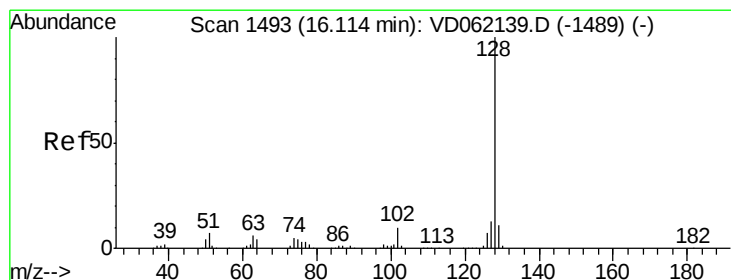
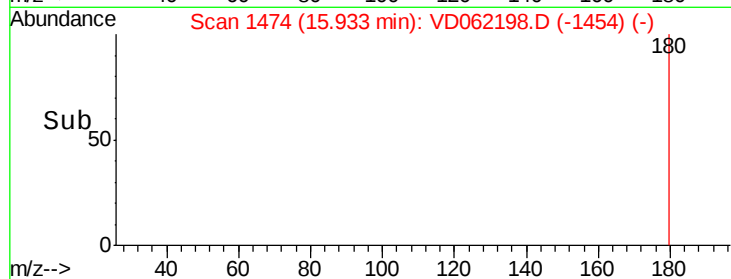
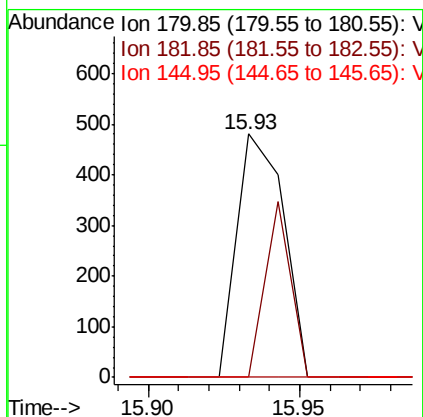
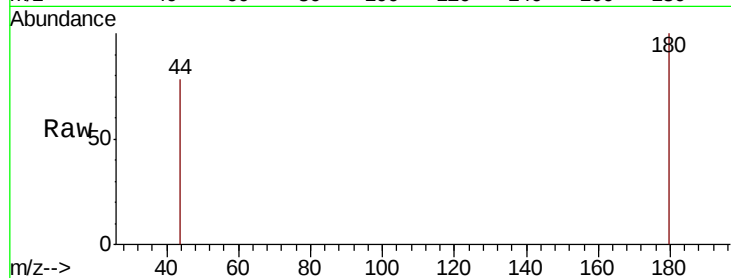
Time-->



#93
 1,2,4-Trichlorobenzene
 Concen: 3.813 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS001-1824-01

Tgt Ion:180 Resp: 520
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.3 147.8#
 145 0.0 16.2 48.6#



#95
 Naphthalene
 Concen: 4.548 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VD062198.D
 Acq: 9 May 2019 19:56

Tgt Ion:128 Resp: 866
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.8 13.2#

