

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050219\
 Data File : VD062114.D
 Acq On : 2 May 2019 16:33
 Operator : FY/SY
 Sample : K2654-01
 Misc : 5.01µ/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 03 01:10:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 02 07:55:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	14901	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	28582	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.35	117	27921	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	12266	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	11463	98.29	ug/l	-0.01
Spiked Amount			Recovery	=	196.58%	
35) Dibromofluoromethane	6.91	113	11813	59.76	ug/l	-0.02
Spiked Amount			Recovery	=	119.52%	
50) Toluene-d8	10.40	98	24242	51.54	ug/l	-0.02
Spiked Amount			Recovery	=	103.08%	
62) 4-Bromofluorobenzene	13.55	95	11389	60.37	ug/l	-0.01
Spiked Amount			Recovery	=	120.74%	

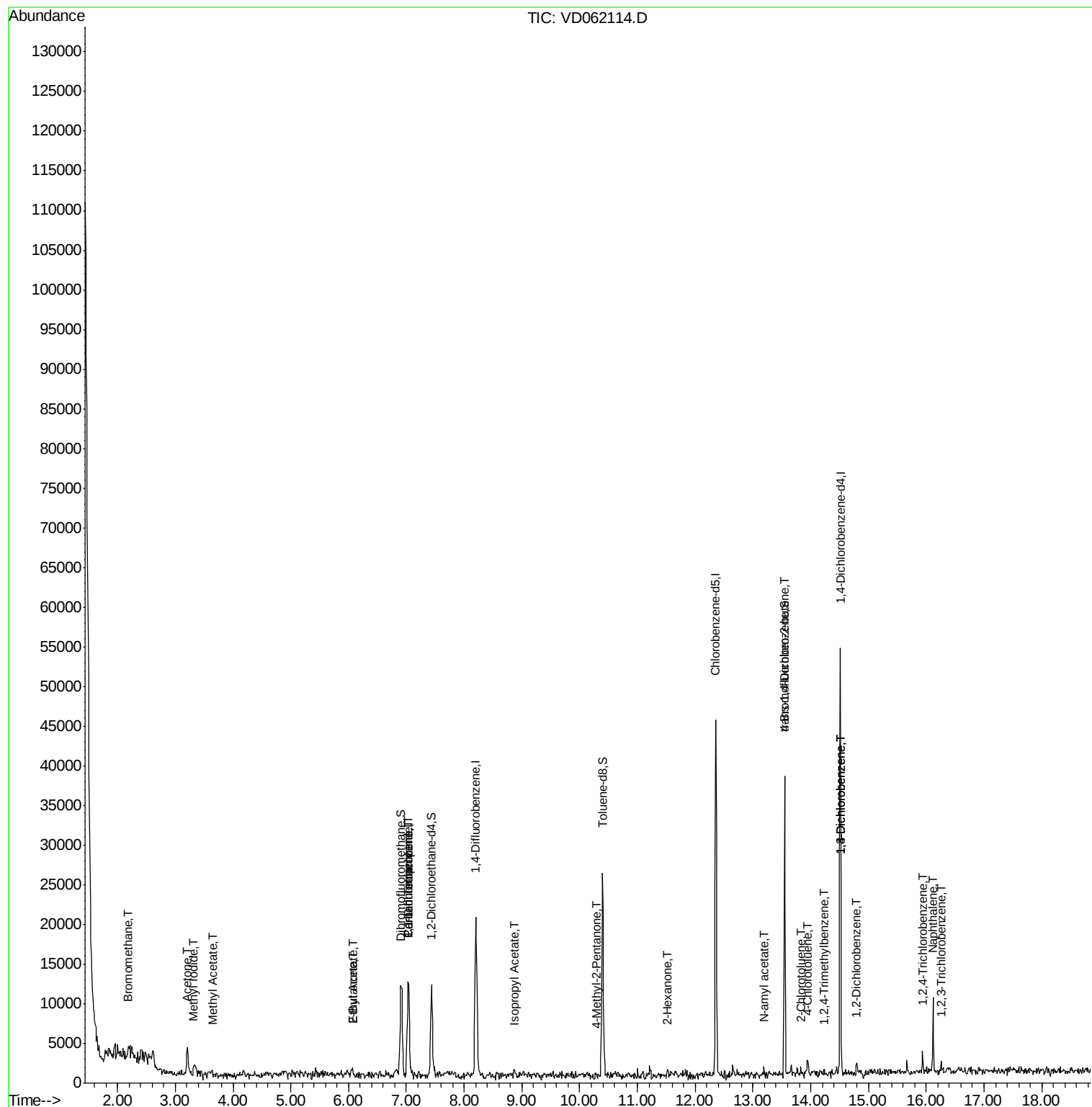
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.20	94	2371	132.131	ug/l #	39
10) Methyl Iodide	3.32	142	2338	15.011	ug/l #	37
16) Acetone	3.21	43	5839	209.687	ug/l #	81
18) Methyl Acetate	3.63	43	928	16.946	ug/l #	53
25) 2-Butanone	6.07	43	984	29.146	ug/l #	56
36) 1,1-Dichloropropene	7.03	75	437	1.962	ug/l #	40
37) Ethyl Acetate	6.07	43	984	10.370	ug/l #	64
38) Carbon Tetrachloride	7.04	117	300	1.063	ug/l #	12
43) Isopropyl Acetate	8.88	43	711	5.128	ug/l #	43
51) 4-Methyl-2-Pentanone	10.30	43	182	2.146	ug/l #	37
59) 2-Hexanone	11.52	43	500	7.861	ug/l #	27
74) N-amyl acetate	13.19	43	358	1.699	ug/l #	49
79) 2-Chlorotoluene	13.83	91	623	1.098	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.55	75	4740	100.421	ug/l #	16
82) 4-Chlorotoluene	13.94	91	1132	1.812	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.23	105	696	1.117	ug/l #	30
87) 1,3-Dichlorobenzene	14.53	146	1031	2.508	ug/l	73
88) 1,4-Dichlorobenzene	14.53	146	1031	2.682	ug/l	74
91) 1,2-Dichlorobenzene	14.80	146	536	1.581	ug/l #	30
93) 1,2,4-Trichlorobenzene	15.94	180	1170	6.395	ug/l #	80
95) Naphthalene	16.12	128	6611	22.381	ug/l #	90
96) 1,2,3-Trichlorobenzene	16.26	180	634	6.108	ug/l	88

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Thu May 02 07:55:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

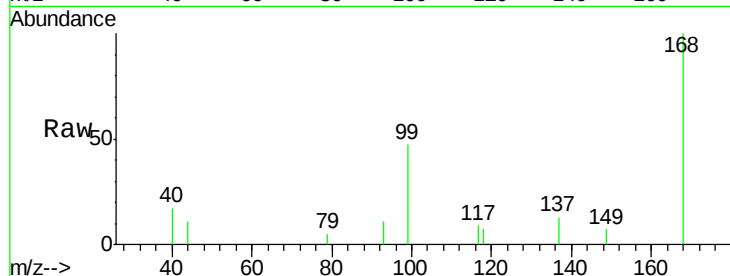
ClientSampleId :

Tot Ion:168 Resp: 14901

Ion Ratio Lower Upper

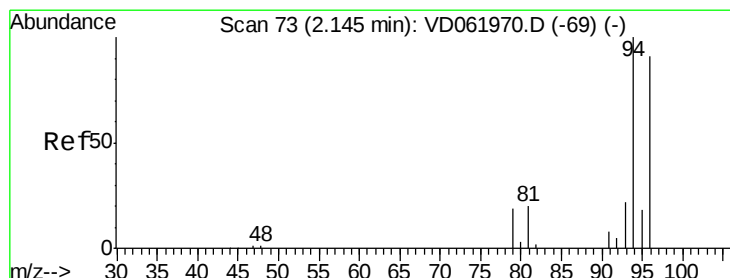
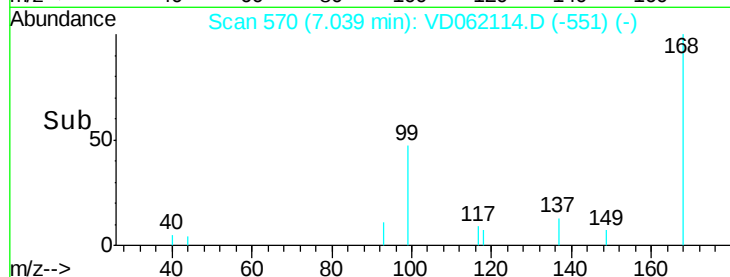
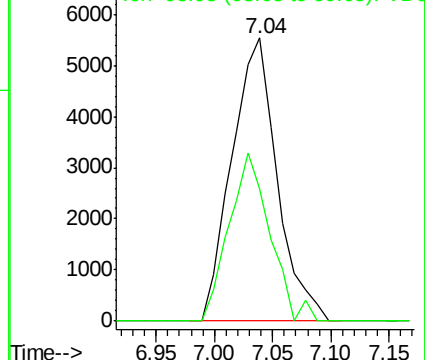
168 100

99 46.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 132.131 ug/l

RT: 2.20 min Scan# 78

Delta R.T. 0.04 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

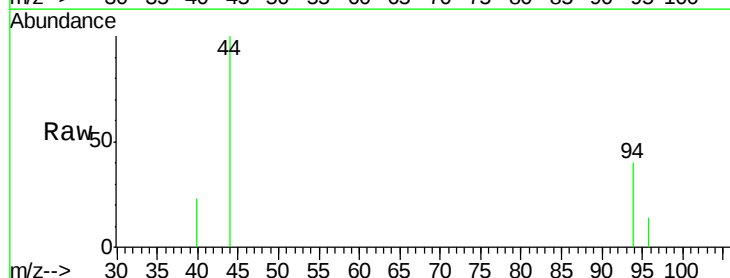
Tgt Ion: 94 Resp: 2371

Ion Ratio Lower Upper

94 100

96 33.5 76.6 115.0#

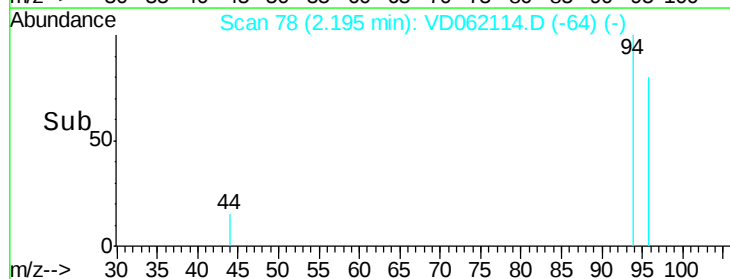
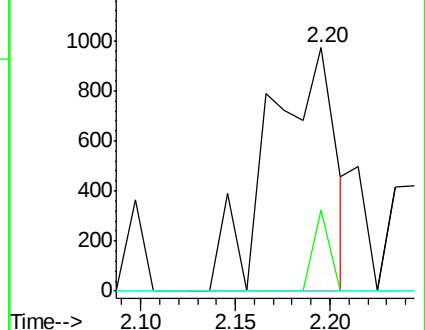
93 0.0 18.5 27.7#

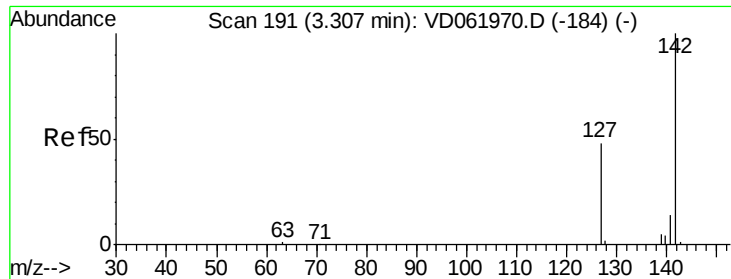


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

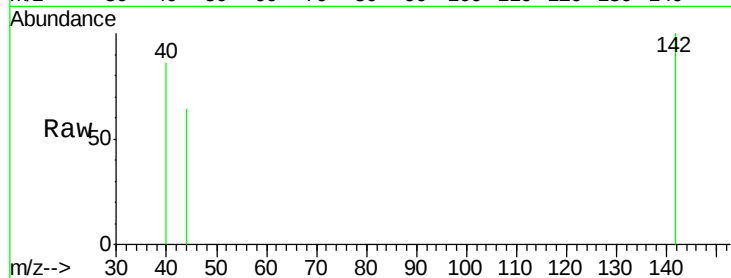




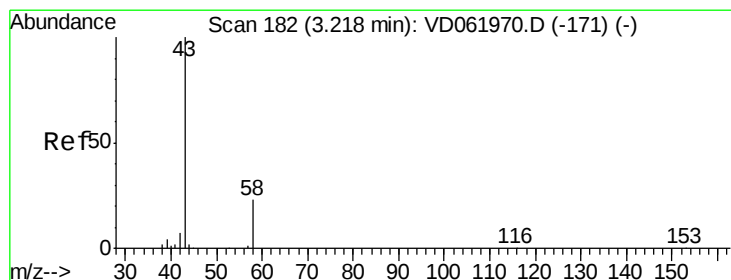
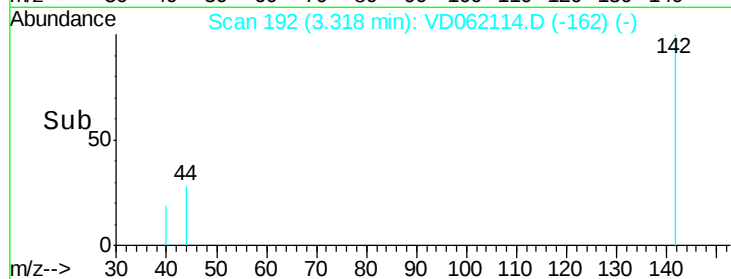
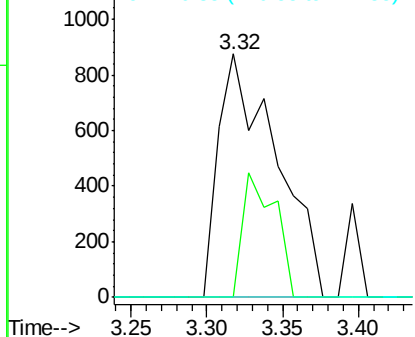
#10
Methvl Iodide
Concen: 15.011 ug/l
RT: 3.32 min Scan# 192
Delta R.T. -0.00 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 2338
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#

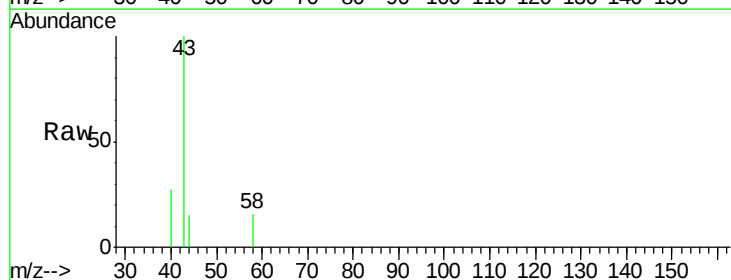


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

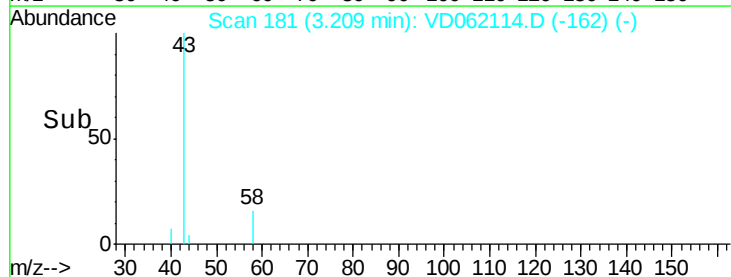
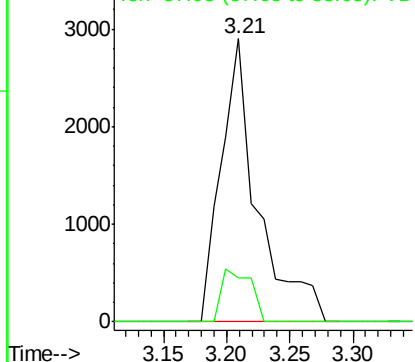


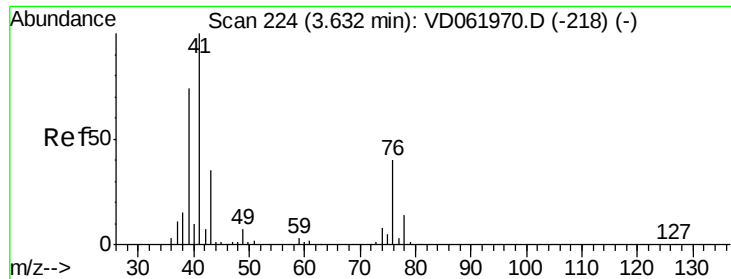
#16
Acetone
Concen: 209.687 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.01 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Tgt Ion: 43 Resp: 5839
Ion Ratio Lower Upper
43 100
58 15.6 19.9 29.9#



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

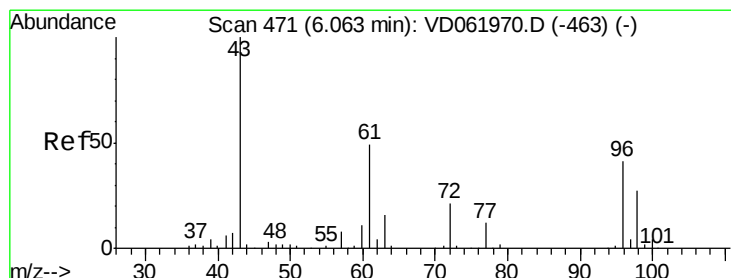
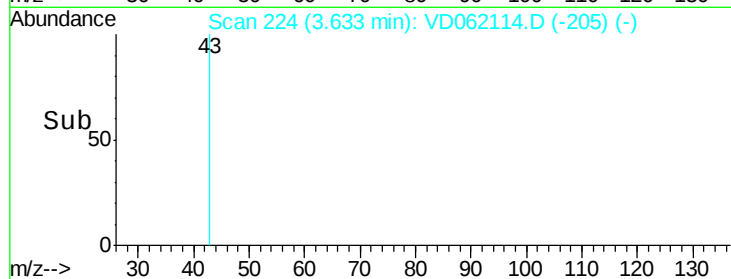
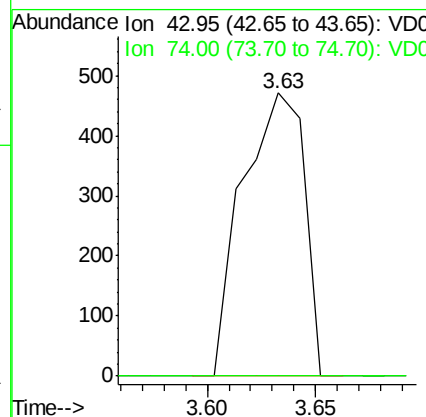
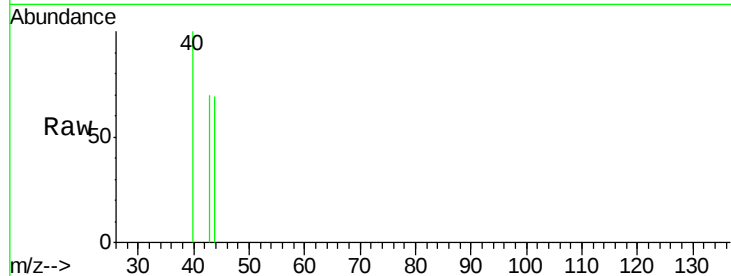




#18
Methyl Acetate
Concen: 16.946 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

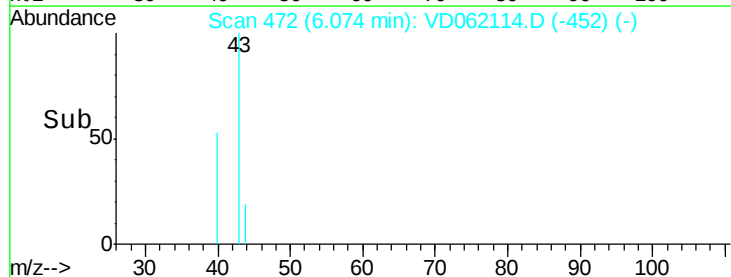
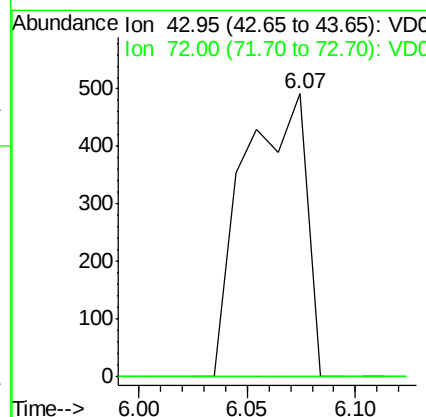
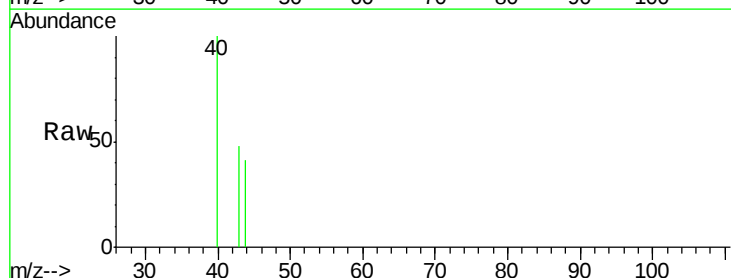
Instrument :
MSVOA_D
ClientSampled :

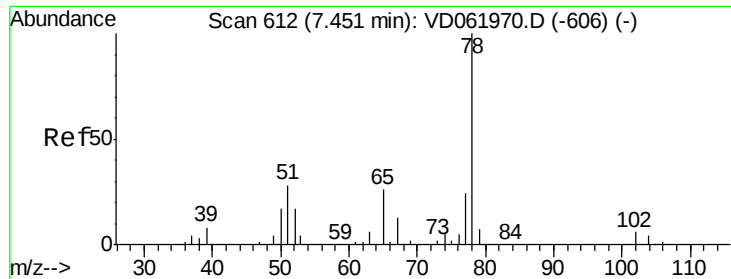
Tot Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#25
2-Butanone
Concen: 29.146 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.00 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Tgt Ion: 43 Resp: 984
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#33

1,2-Dichloroethane-d4

Concen: 98.290 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

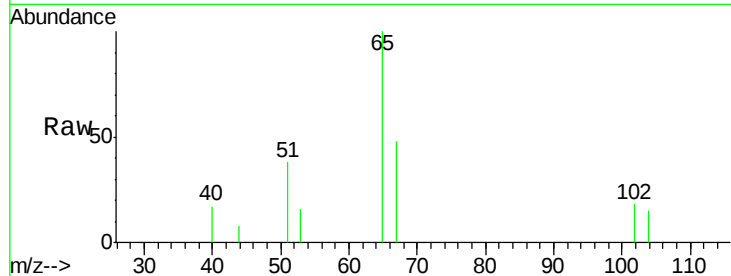
ClientSampleId :

Tot Ion: 65 Resp: 11463

Ion Ratio Lower Upper

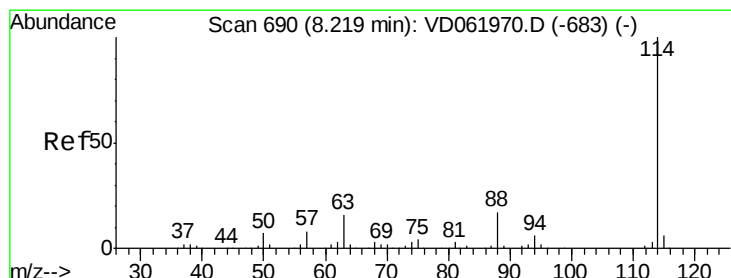
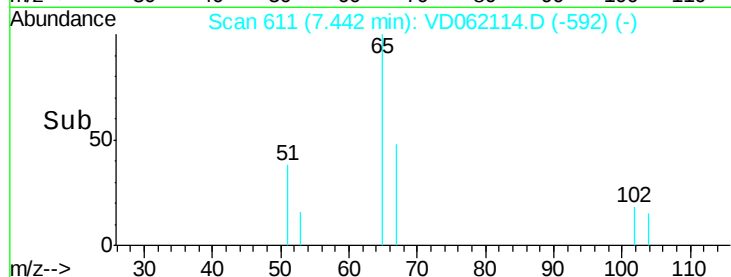
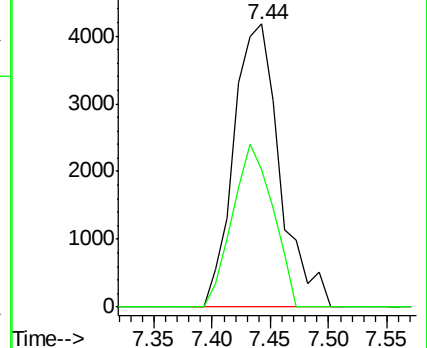
65 100

67 48.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

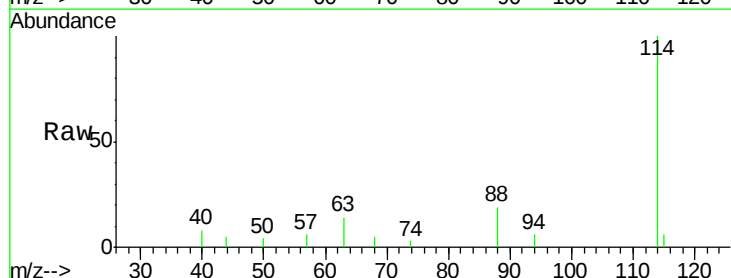
Tgt Ion: 114 Resp: 28582

Ion Ratio Lower Upper

114 100

63 14.4 0.0 32.4

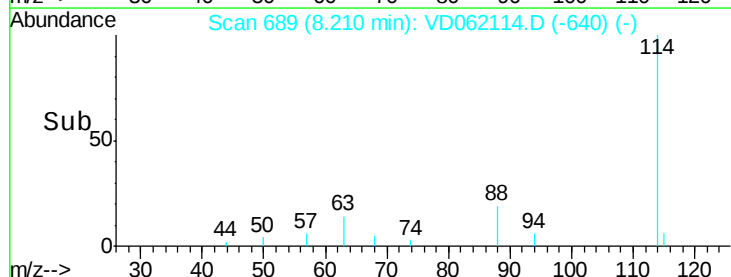
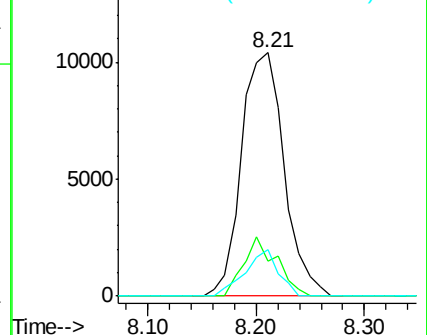
88 19.0 0.0 33.6

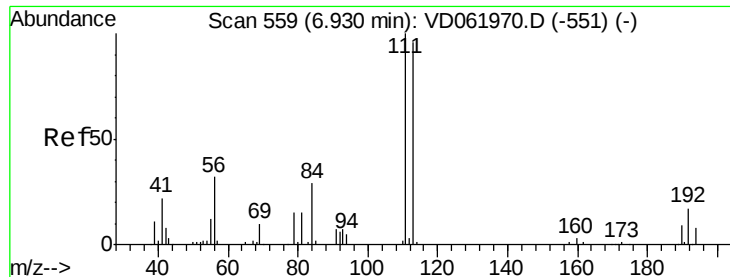


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 59.761 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :
MSVOA_D
ClientSampled :

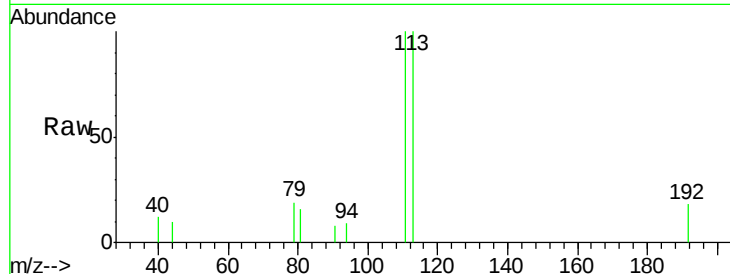
Tot Ion:113 Resp: 11813

Ion Ratio Lower Upper

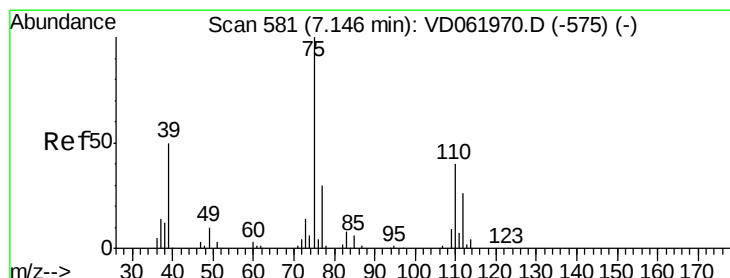
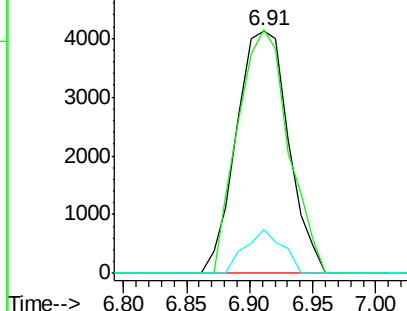
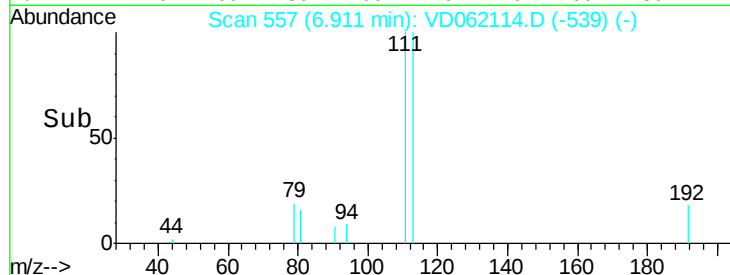
113 100

111 100.4 78.5 117.7

192 18.0 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



#36

1,1-Dichloropropene

Concen: 1.962 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.12 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

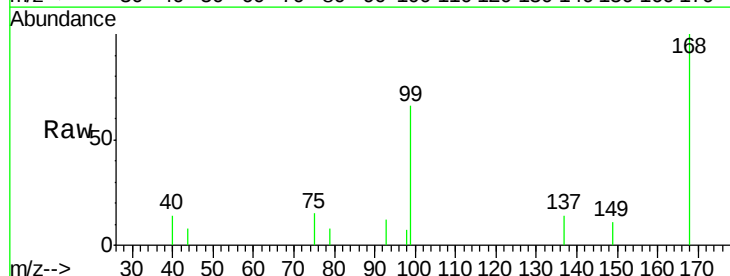
Tgt Ion: 75 Resp: 437

Ion Ratio Lower Upper

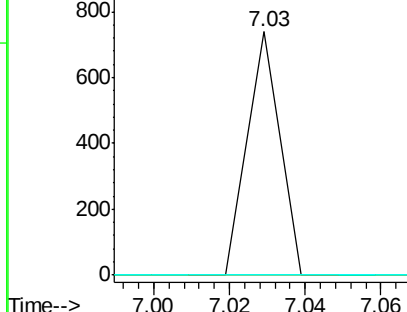
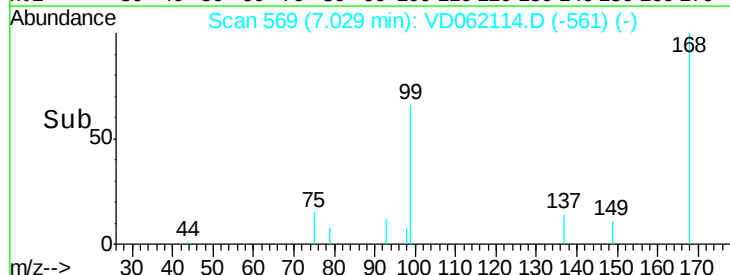
75 100

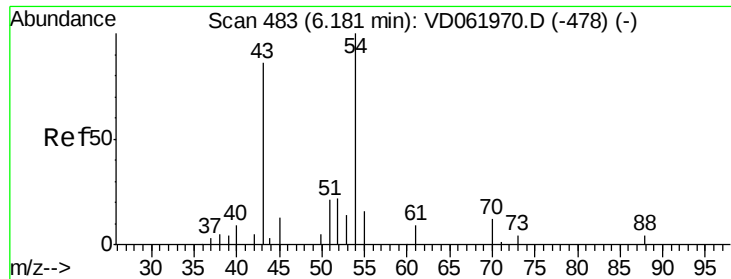
110 0.0 19.1 57.1#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 10.370 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.11 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

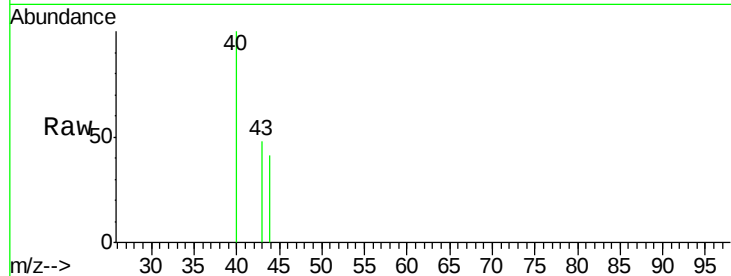
Tot Ion: 43 Resp: 984

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

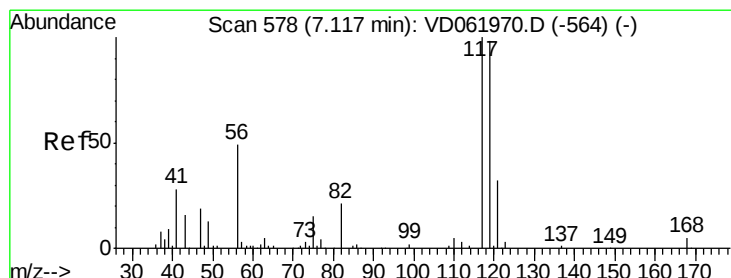
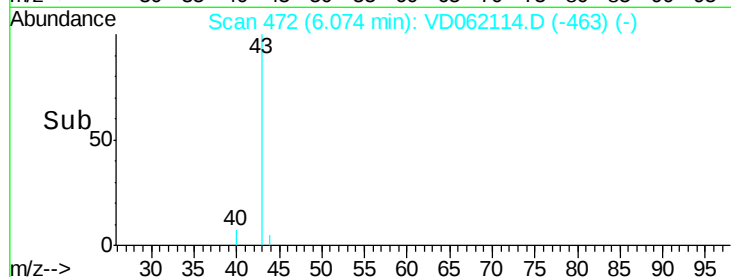
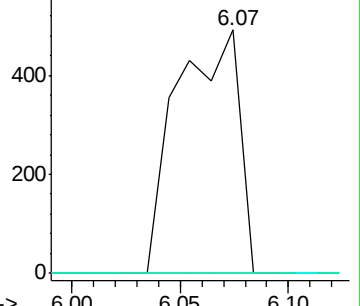
70 0.0 7.8 11.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 1.063 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

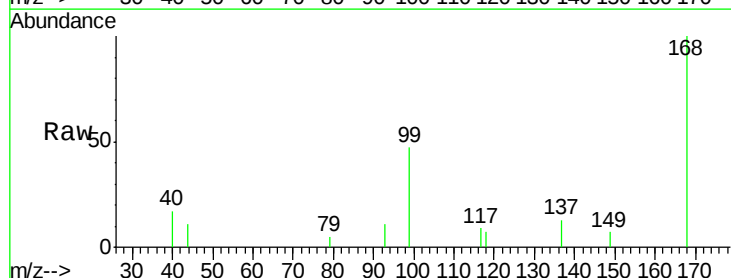
Tgt Ion: 117 Resp: 300

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

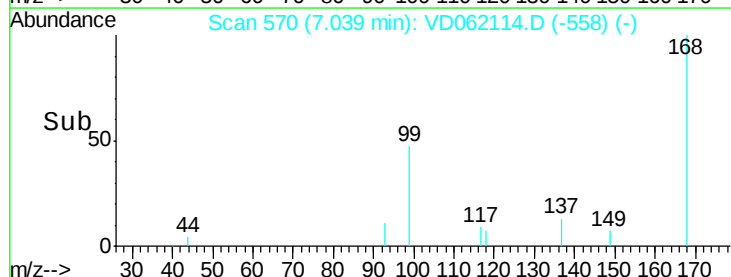
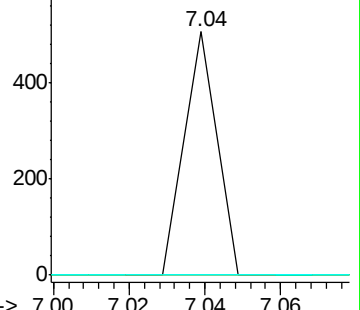
121 0.0 25.9 38.9#

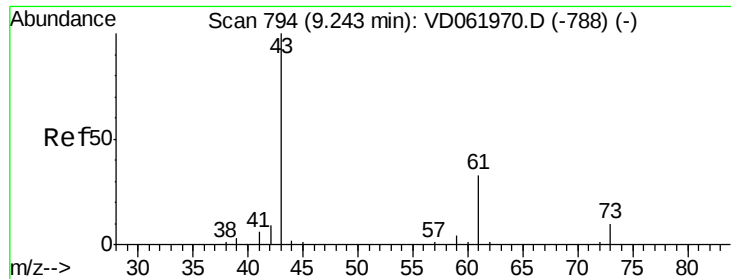


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#43

Isopropyl Acetate

Concen: 5.128 ug/l

RT: 8.88 min Scan# 757

Delta R.T. -0.37 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

ClientSampled :

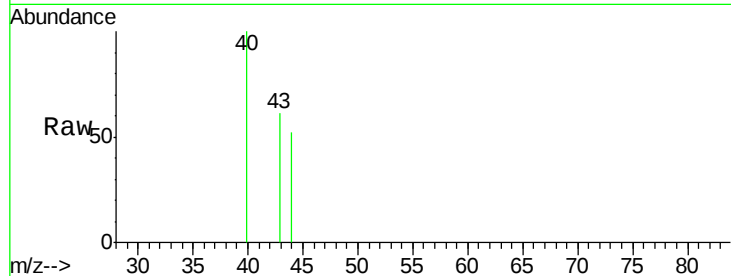
Tot Ion: 43 Resp: 711

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

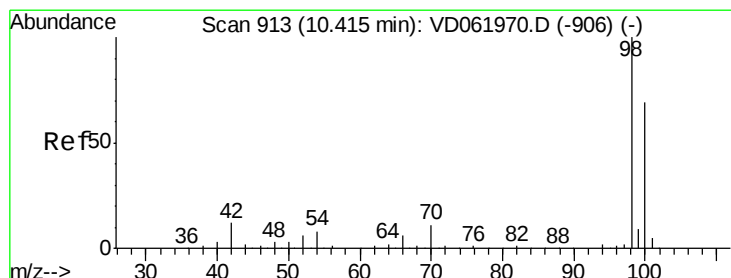
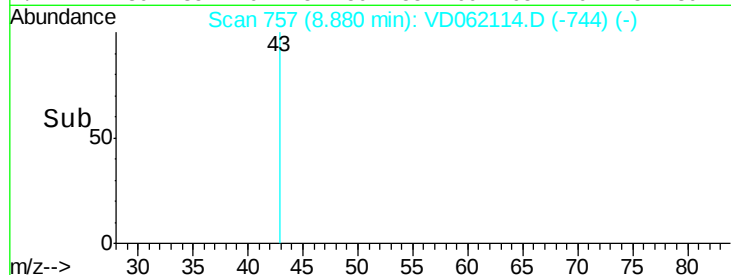
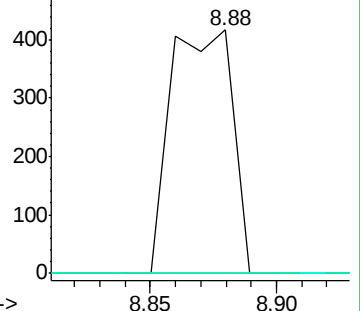
87 0.0 0.0 0.0



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



#50

Toluene-d8

Concen: 51.539 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.02 min

Lab File: VD062114.D

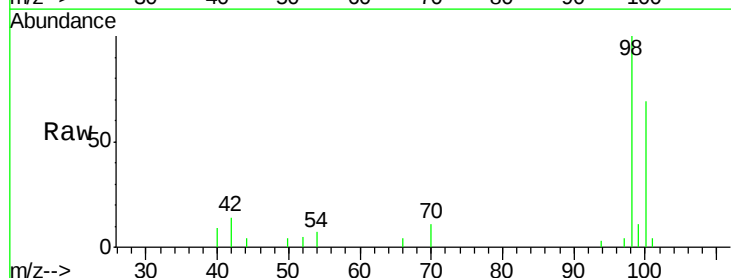
Acq: 2 May 2019 16:33

Tgt Ion: 98 Resp: 24242

Ion Ratio Lower Upper

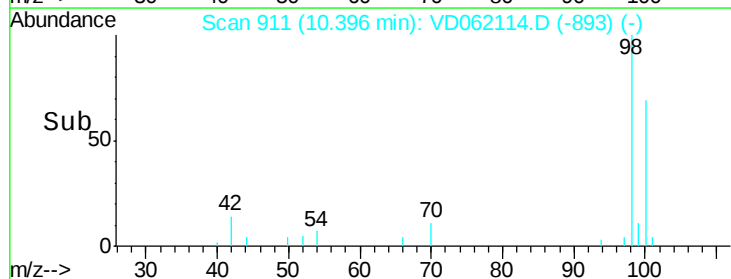
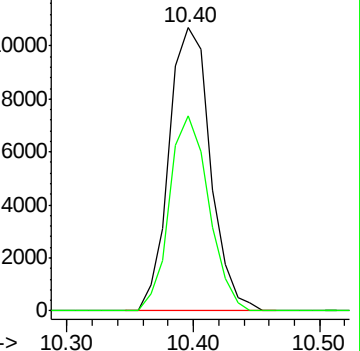
98 100

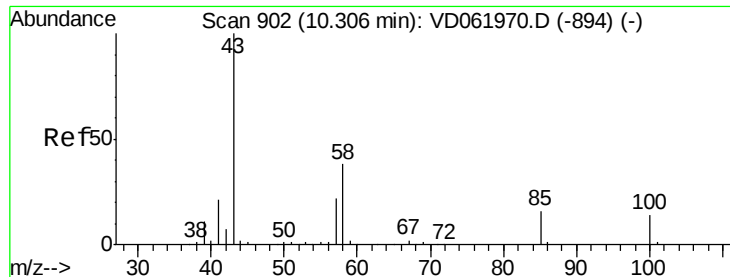
100 69.0 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 2.146 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

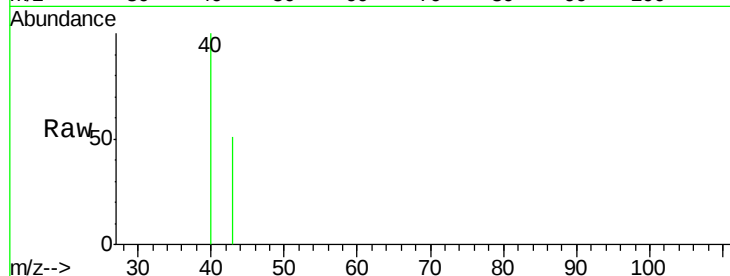
ClientSampleId :

Tot Ion: 43 Resp: 182

Ion Ratio Lower Upper

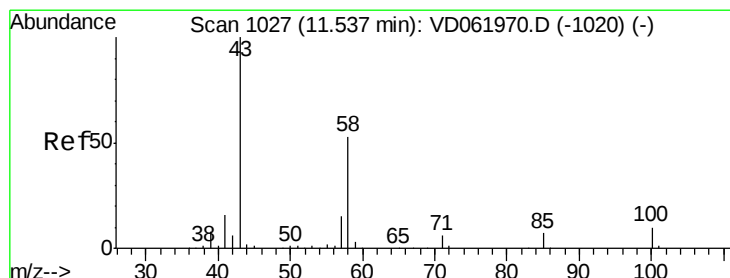
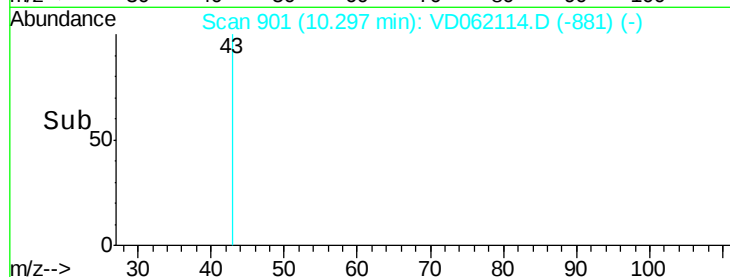
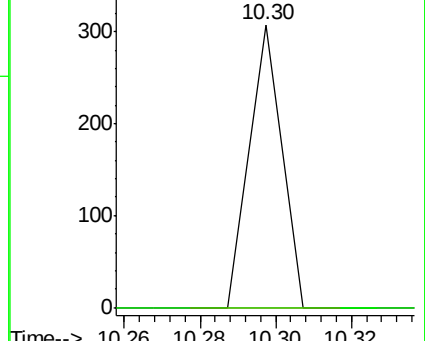
43 100

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



#59

2-Hexanone

Concen: 7.861 ug/l

RT: 11.52 min Scan# 1025

Delta R.T. -0.01 min

Lab File: VD062114.D

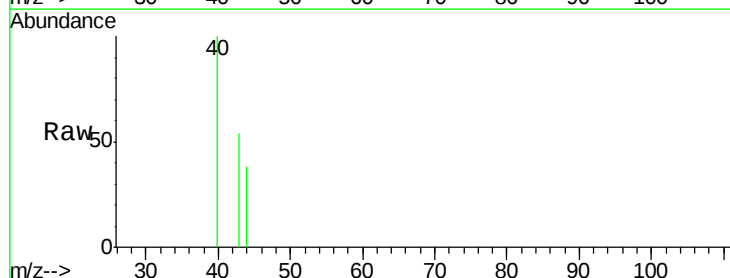
Acq: 2 May 2019 16:33

Tgt Ion: 43 Resp: 500

Ion Ratio Lower Upper

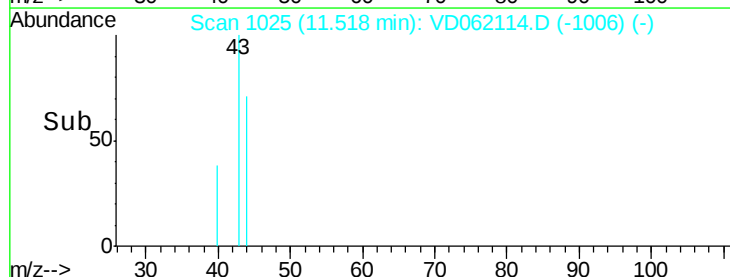
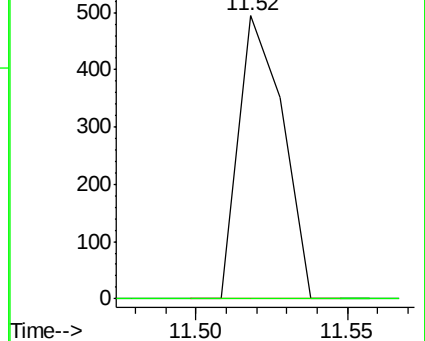
43 100

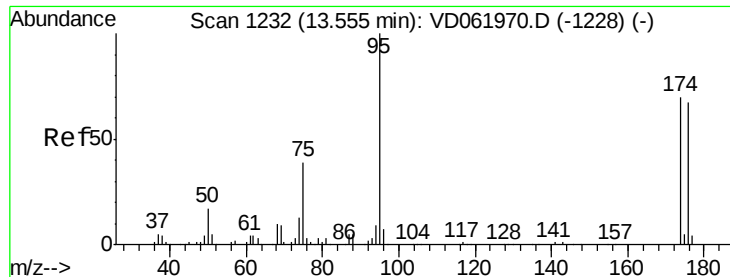
58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

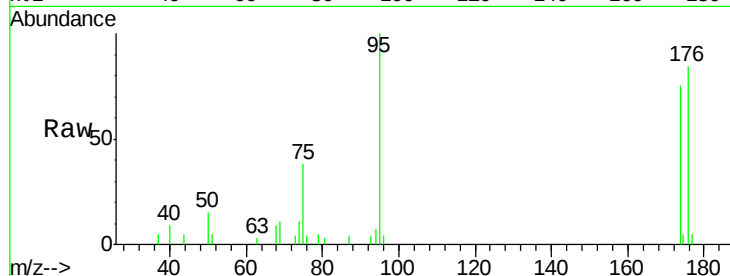




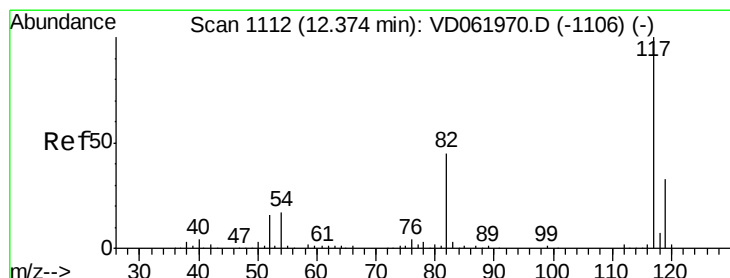
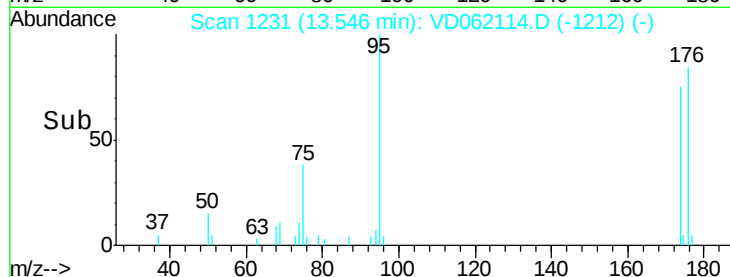
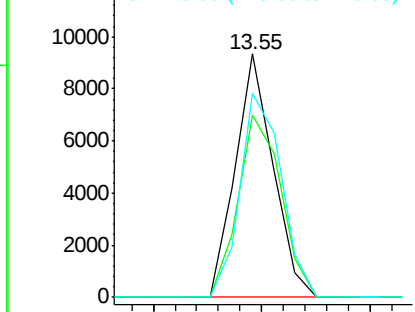
#62
4-Bromofluorobenzene
Concen: 60.368 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 11389
Ion Ratio Lower Upper
95 100
174 79.9 0.0 181.8
176 83.9 0.0 174.4

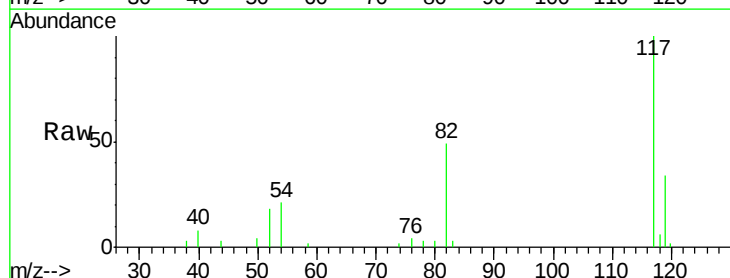


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

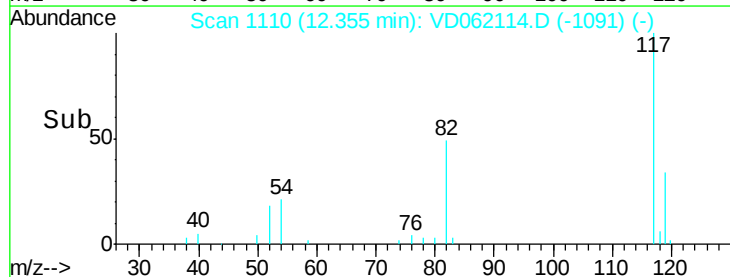
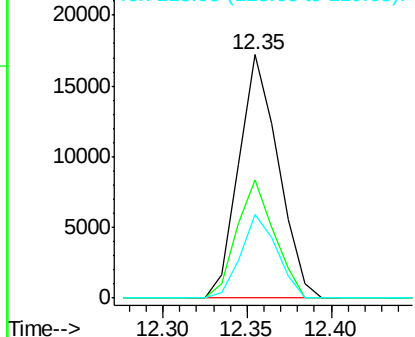


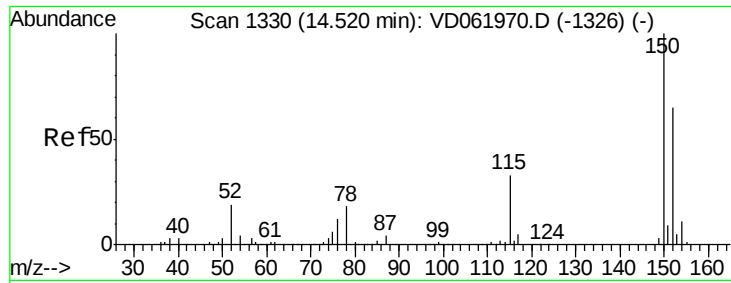
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Tgt Ion: 117 Resp: 27921
Ion Ratio Lower Upper
117 100
82 48.8 36.2 54.2
119 34.3 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



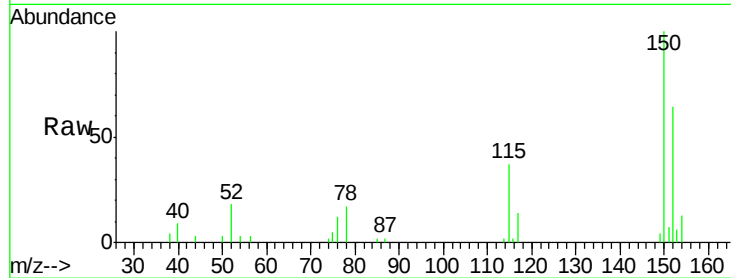


#72

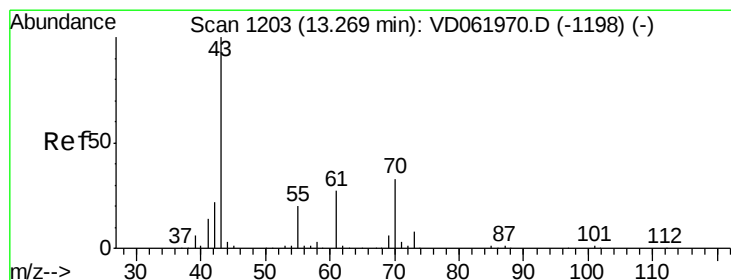
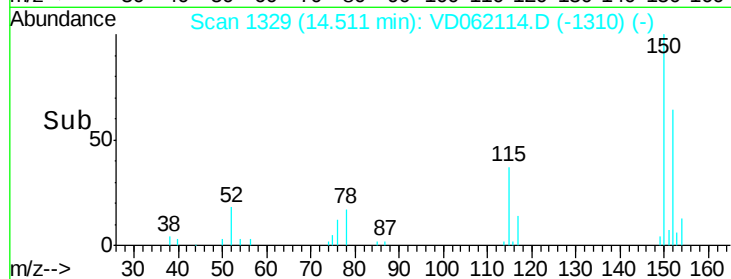
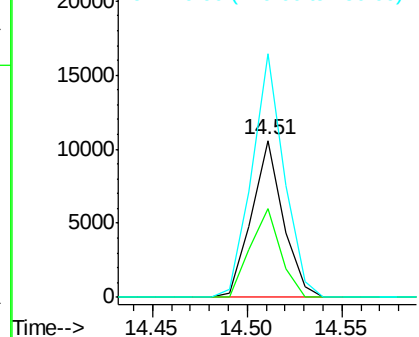
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 12266
Ion Ratio Lower Upper
152 100
115 56.7 30.9 92.7
150 155.2 0.0 314.8



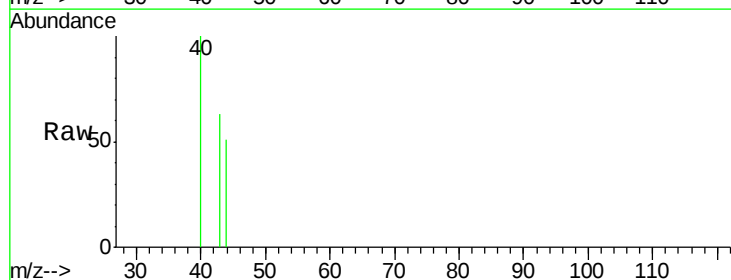
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



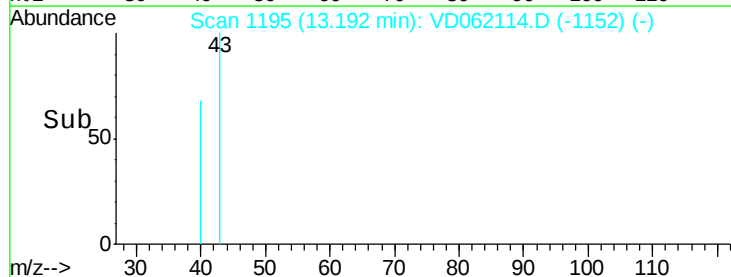
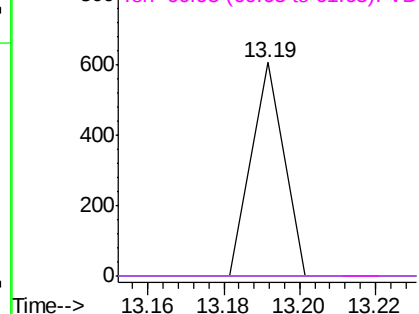
#74

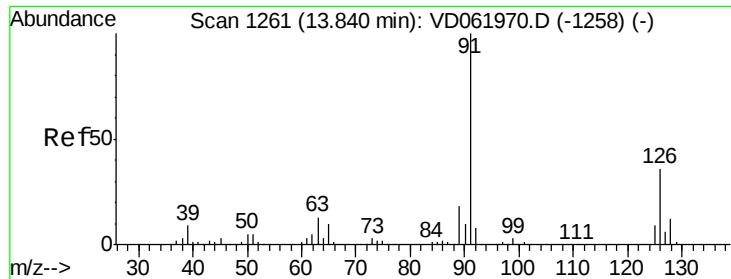
N-ethyl acetate
Concen: 1.699 ug/l
RT: 13.19 min Scan# 1195
Delta R.T. -0.07 min
Lab File: VD062114.D
Acq: 2 May 2019 16:33

Tgt Ion: 43 Resp: 358
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





#79

2-Chlorotoluene

Concen: 1.098 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

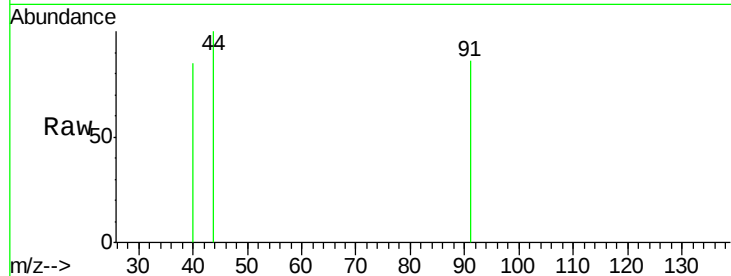
ClientSampleId :

Tot Ion: 91 Resp: 623

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

13.83

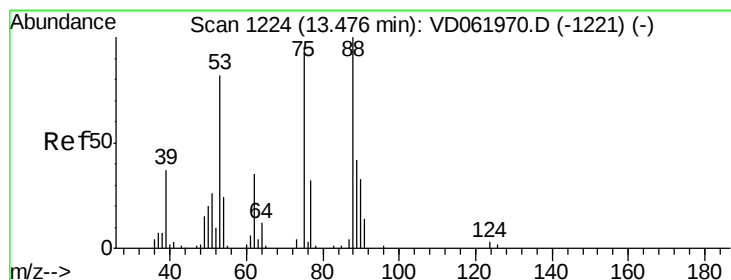
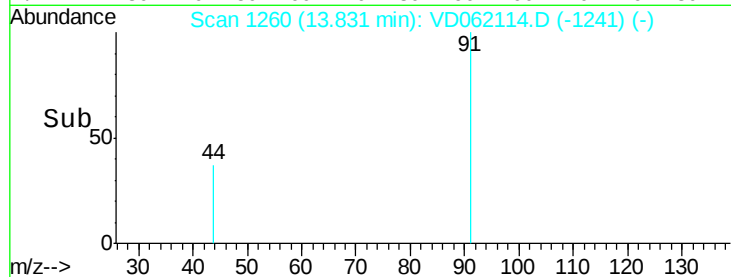
600

400

200

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.421 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

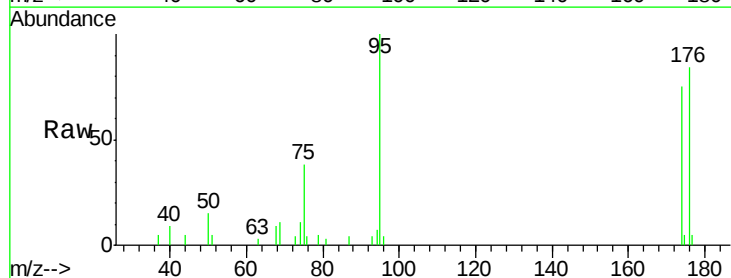
Tgt Ion: 75 Resp: 4740

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

4000

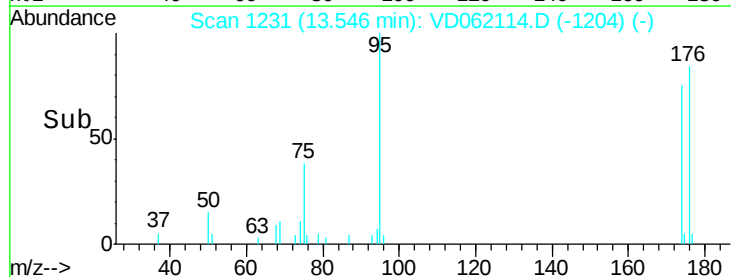
3000

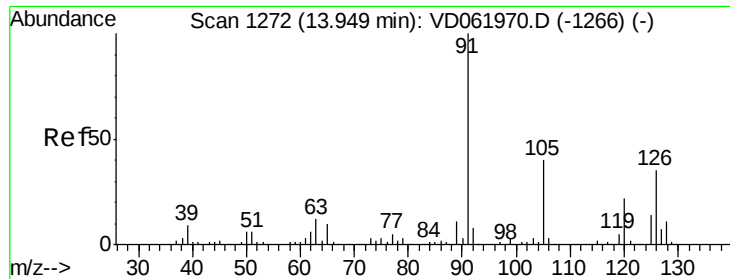
2000

1000

0

Time-->





#82

4-Chlorotoluene

Concen: 1.812 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

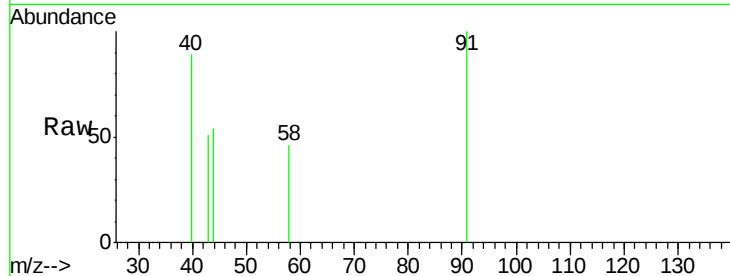
ClientSampleId :

Tot Ion: 91 Resp: 1132

Ion Ratio Lower Upper

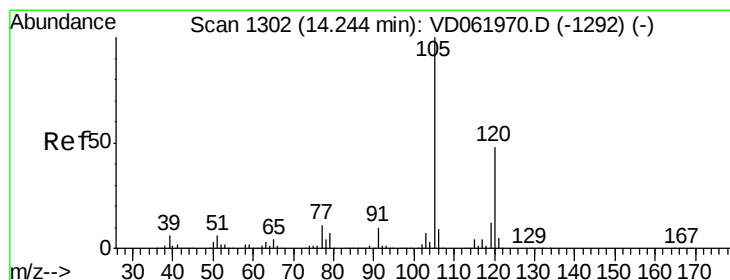
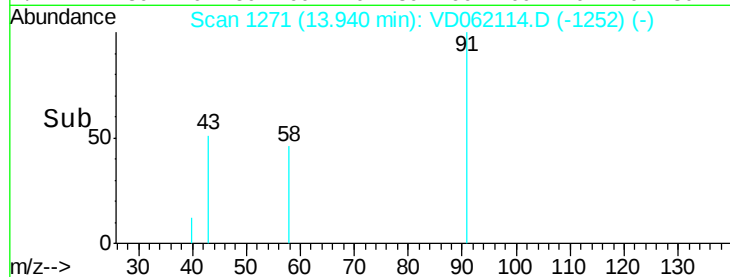
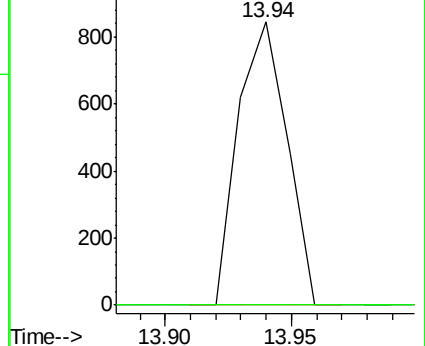
91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



#84

1,2,4-Trimethylbenzene

Concen: 1.117 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD062114.D

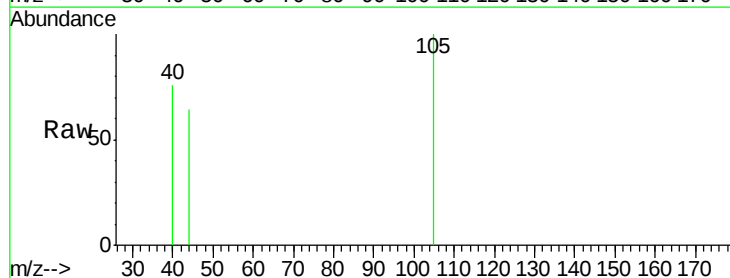
Acq: 2 May 2019 16:33

Tgt Ion:105 Resp: 696

Ion Ratio Lower Upper

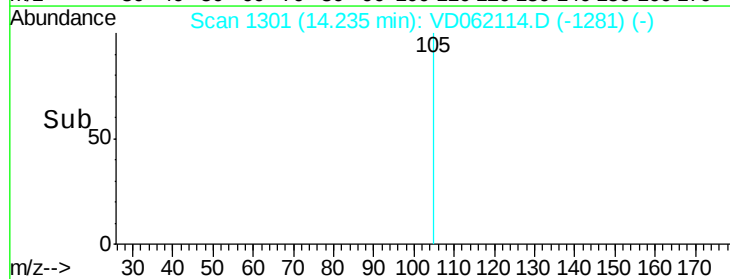
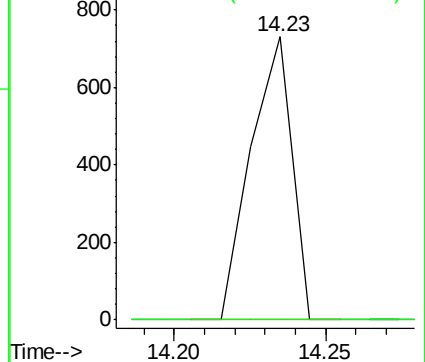
105 100

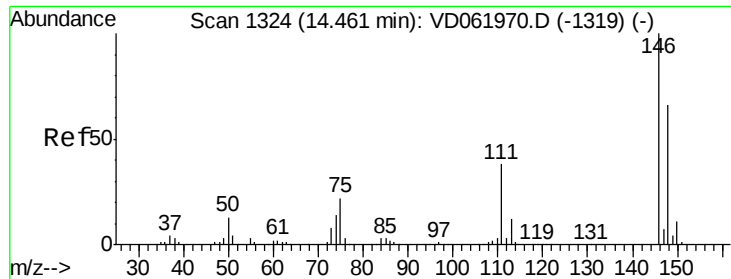
120 0.0 23.1 69.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

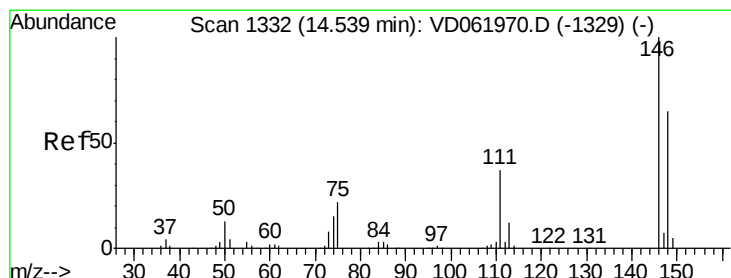
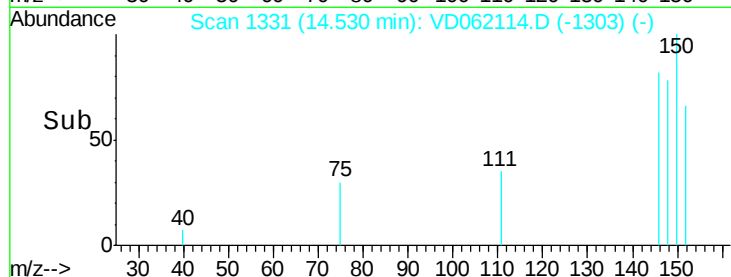
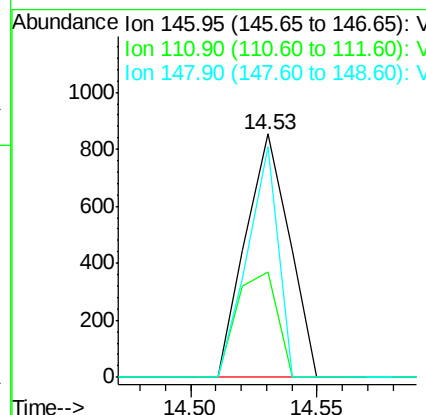
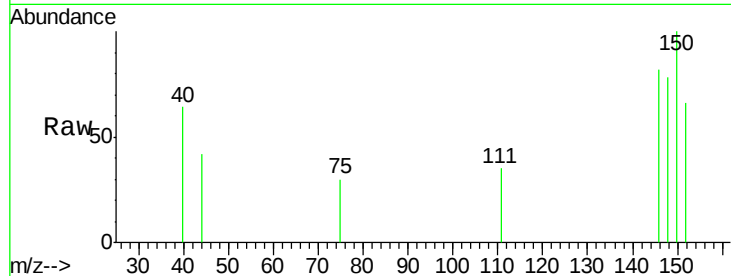




#87
 1,3-Dichlorobenzene
 Concen: 2.508 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.08 min
 Lab File: VD062114.D
 Acq: 2 May 2019 16:33

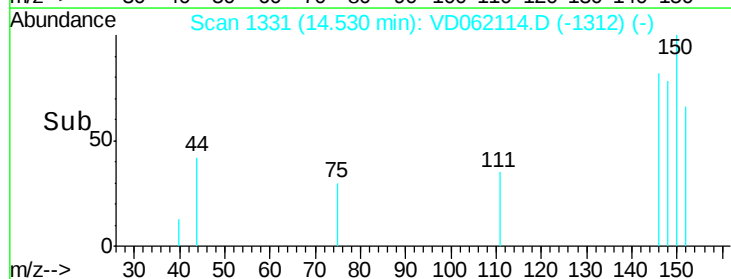
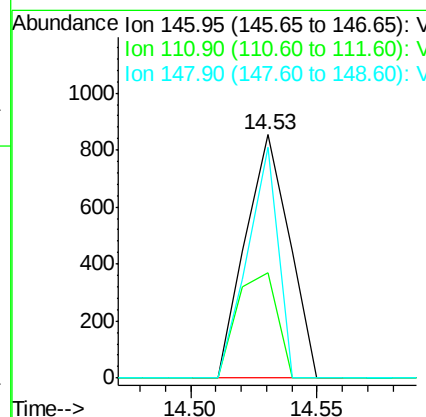
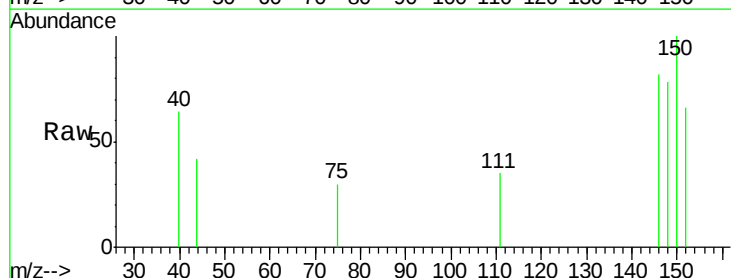
Instrument :
 MSVOA_D
 ClientSampled :

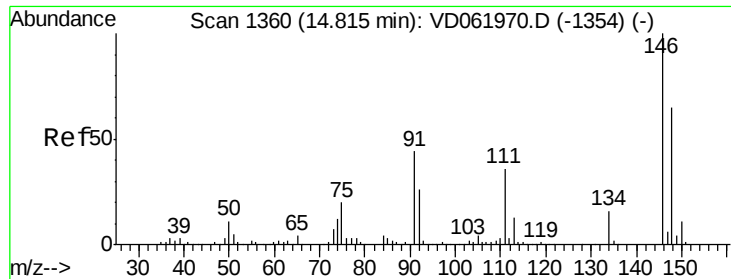
Tot Ion:146 Resp: 1031
 Ion Ratio Lower Upper
 146 100
 111 43.2 20.0 60.0
 148 95.1 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 2.682 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD062114.D
 Acq: 2 May 2019 16:33

Tgt Ion:146 Resp: 1031
 Ion Ratio Lower Upper
 146 100
 111 43.2 20.2 60.5
 148 95.1 32.0 96.2

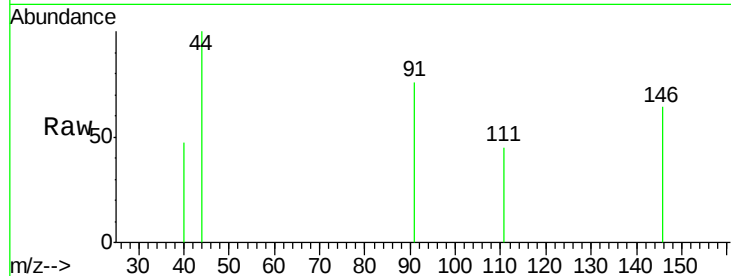




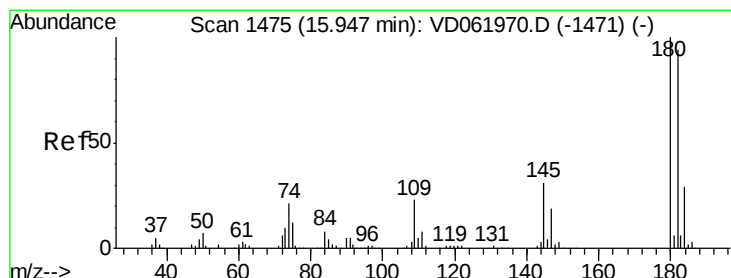
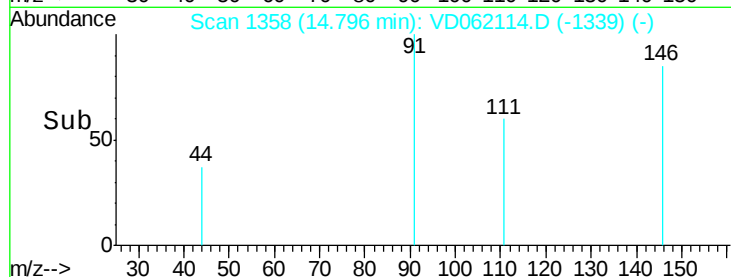
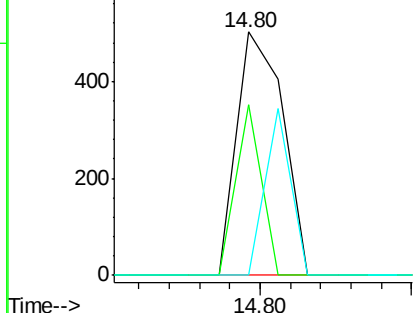
#91
 1,2-Dichlorobenzene
 Concen: 1.581 ug/l
 RT: 14.80 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VD062114.D
 Acq: 2 May 2019 16:33

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 536
 Ion Ratio Lower Upper
 146 100
 111 70.3 20.0 59.9#
 148 0.0 32.3 96.8#

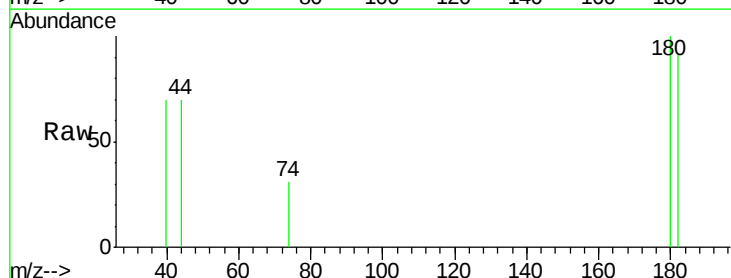


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

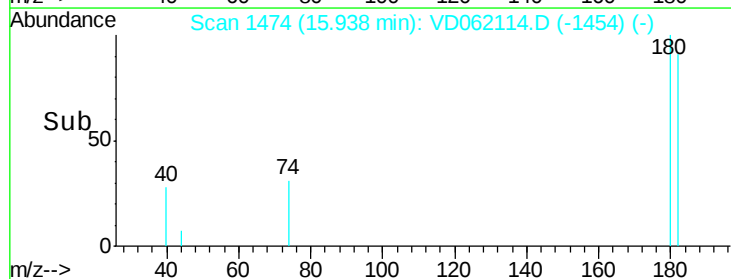
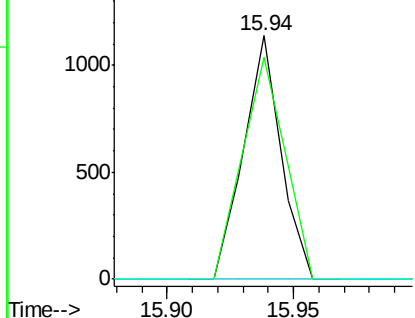


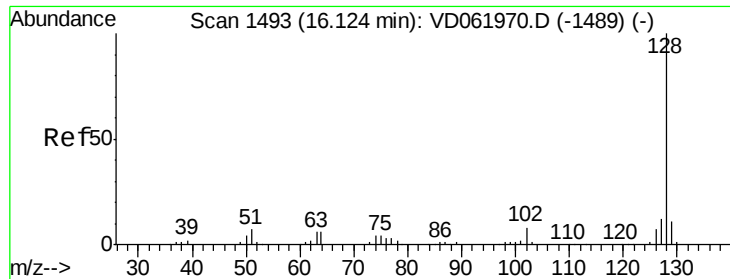
#93
 1,2,4-Trichlorobenzene
 Concen: 6.395 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD062114.D
 Acq: 2 May 2019 16:33

Tgt Ion:180 Resp: 1170
 Ion Ratio Lower Upper
 180 100
 182 91.0 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: 22.381 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

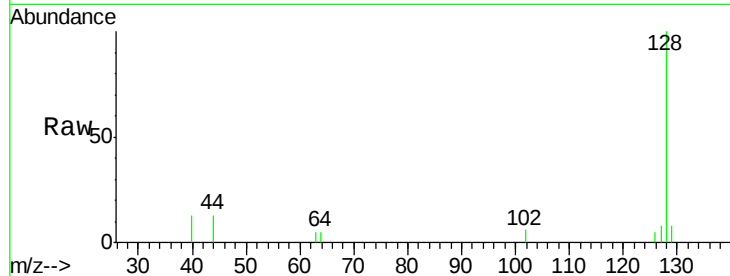
Tot Ion:128 Resp: 6611

Ion Ratio Lower Upper

128 100

127 8.3 9.8 14.8#

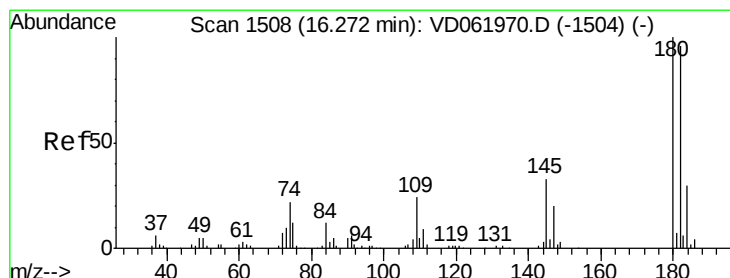
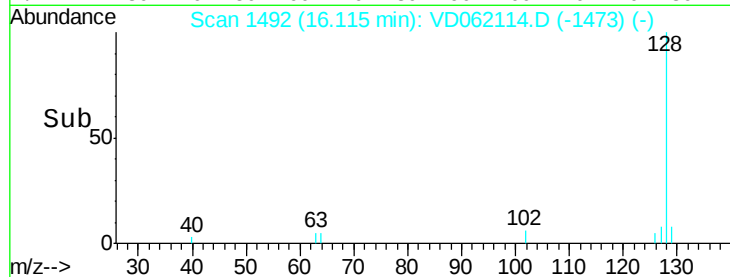
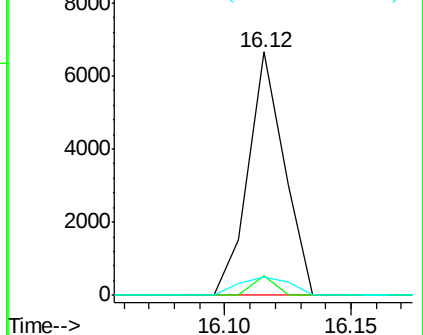
129 7.7 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 6.108 ug/l

RT: 16.26 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VD062114.D

Acq: 2 May 2019 16:33

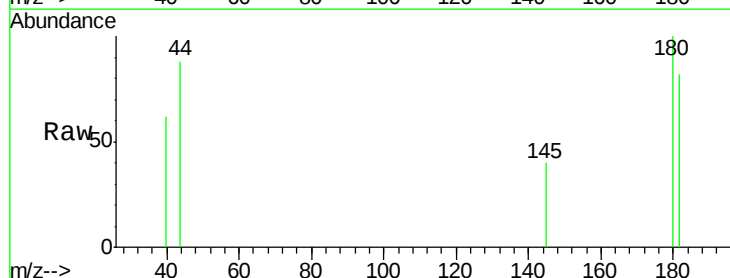
Tgt Ion:180 Resp: 634

Ion Ratio Lower Upper

180 100

182 81.7 47.0 141.0

145 40.3 17.0 51.0



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

