

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061719\
 Data File : VD062730.D
 Acq On : 17 Jun 2019 16:50
 Operator : VA/AP
 Sample : K3409-02
 Misc : 4.99g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T-1A

Quant Time: Jun 18 06:24:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	34894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	48260	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	41167	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	15099	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	25673	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	6.92	113	18724	36.79	ug/l	0.00
Spiked Amount			Recovery	=	73.58%	
50) Toluene-d8	10.40	98	30057	28.07	ug/l	-0.01
Spiked Amount			Recovery	=	56.14%	
62) 4-Bromofluorobenzene	13.55	95	15143	30.32	ug/l	0.00
Spiked Amount			Recovery	=	60.64%	

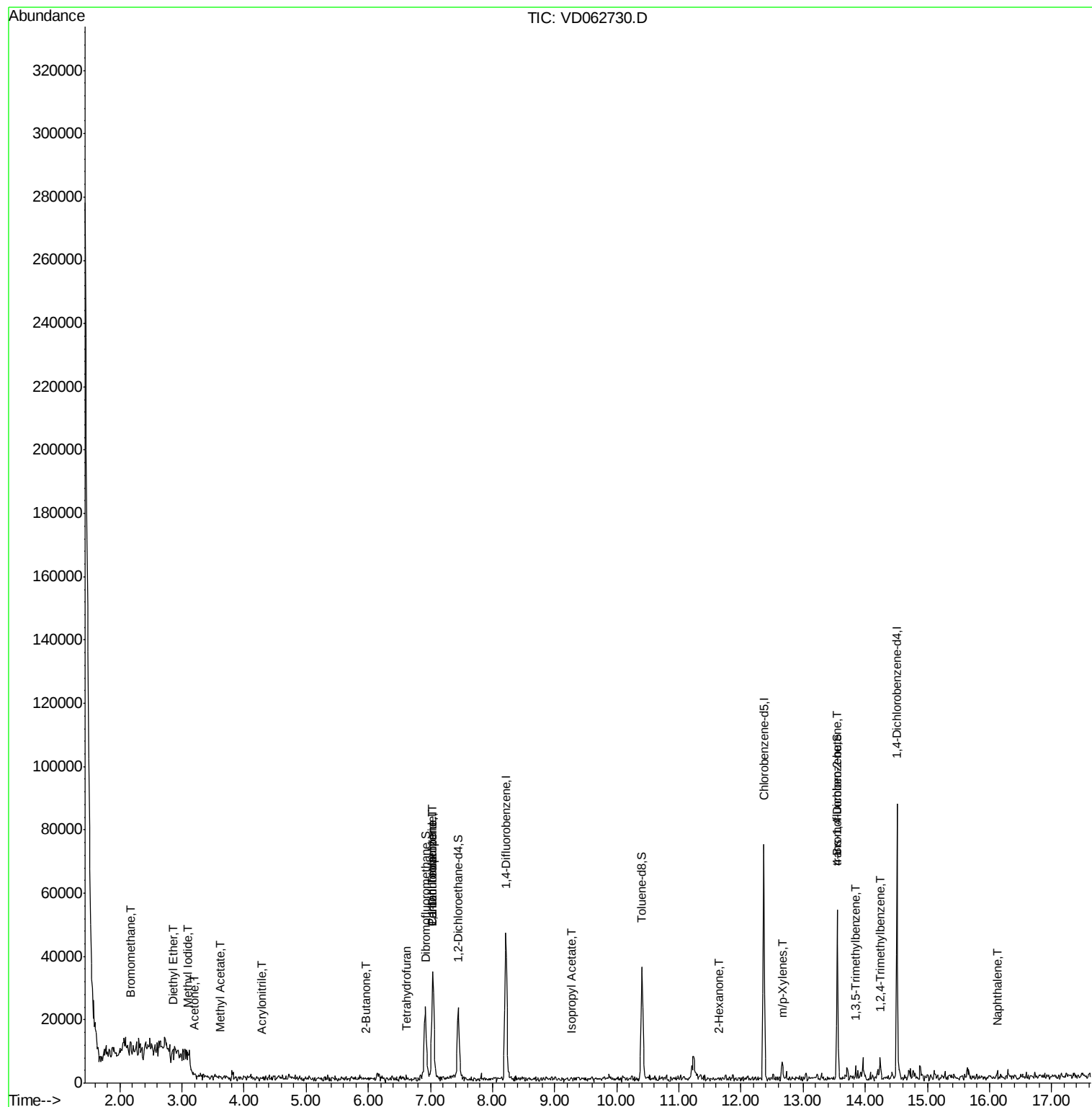
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	399	2.220	ug/l #	11
8) Diethyl Ether	2.85	74	260	2.399	ug/l #	1
10) Methyl Iodide	3.09	142	191	4.290	ug/l #	24
15) Acrylonitrile	4.29	53	268	5.698	ug/l #	12
16) Acetone	3.21	43	353	3.829	ug/l #	66
18) Methyl Acetate	3.63	43	341	2.250	ug/l #	64
25) 2-Butanone	5.97	43	221	2.457	ug/l #	61
29) Tetrahydrofuran	6.62	42	183	4.518	ug/l #	33
36) 1,1-Dichloropropene	7.04	75	2320	4.200	ug/l #	44
38) Carbon Tetrachloride	7.03	117	3758	4.305	ug/l #	14
43) Isopropyl Acetate	9.26	43	496	1.702	ug/l #	52
59) 2-Hexanone	11.63	43	236	1.556	ug/l #	32
68) m/p-Xylenes	12.65	106	1639	2.888	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.84	105	1675	1.781	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.55	75	7383	116.027	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.24	105	3980	4.274	ug/l	90
95) Naphthalene	16.13	128	1832	6.563	ug/l #	71

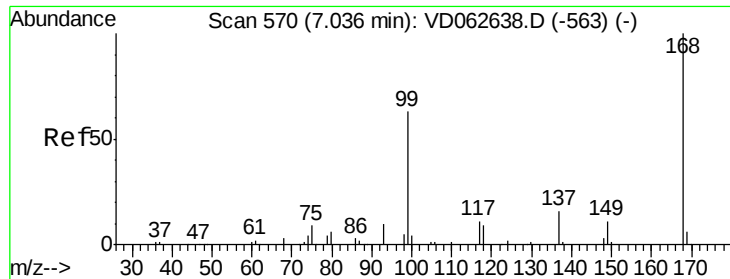
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

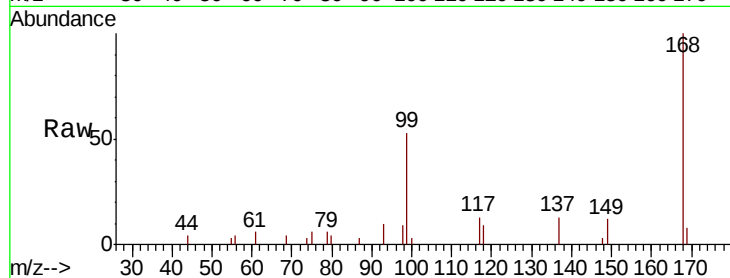
T-1A

Tot Ion:168 Resp: 34894

Ion Ratio Lower Upper

168 100

99 53.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

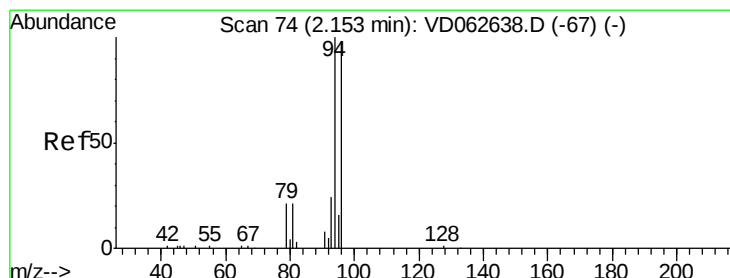
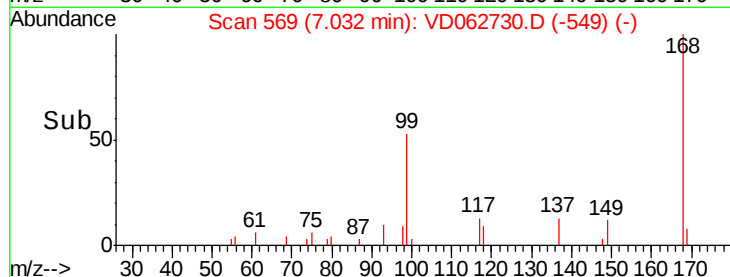
15000

10000

5000

0

Time-->



#5

Bromomethane

Concen: 2.220 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

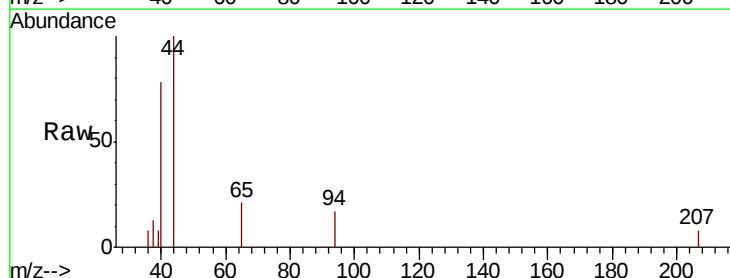
Tgt Ion: 94 Resp: 399

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

93 0.0 19.6 29.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.16

800

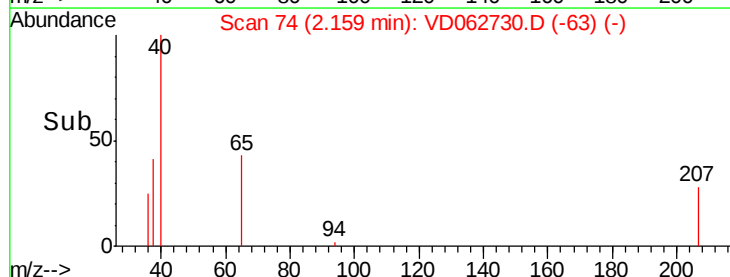
600

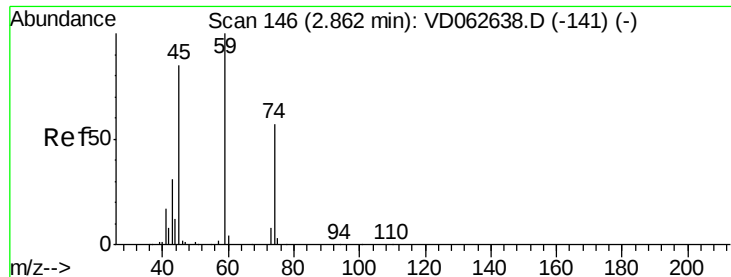
400

200

0

Time-->





#8

Diethyl Ether

Concen: 2.399 ug/l

RT: 2.85 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

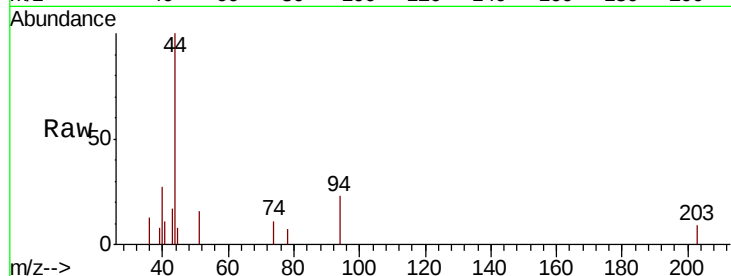
T-1A

Tot Ion: 74 Resp: 260

Ion Ratio Lower Upper

74 100

45 0.0 74.9 224.7#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.85

400

300

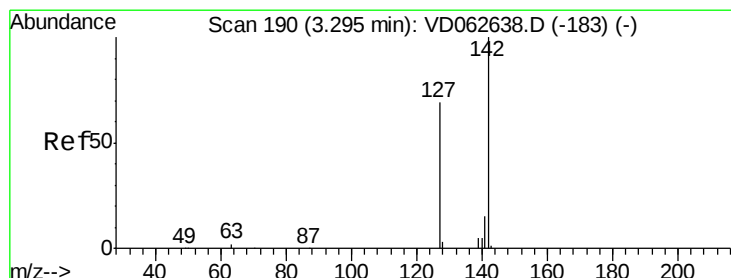
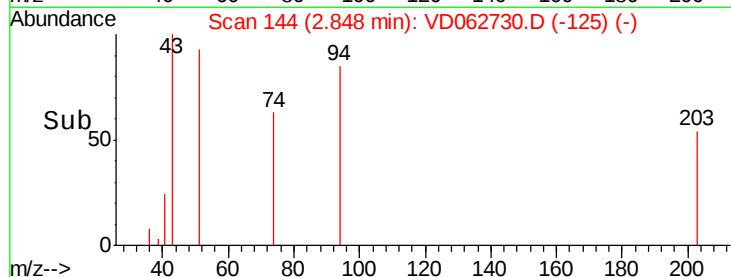
200

100

0

2.82 2.84 2.86 2.88

Time-->



#10

Methyl Iodide

Concen: 4.290 ug/l

RT: 3.09 min Scan# 169

Delta R.T. -0.20 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

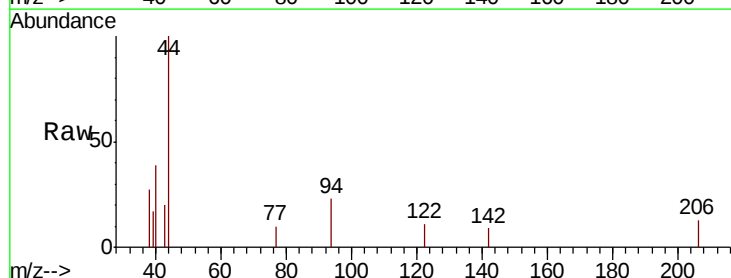
Tgt Ion: 142 Resp: 191

Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

141 0.0 12.1 18.1#



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

500

400

300

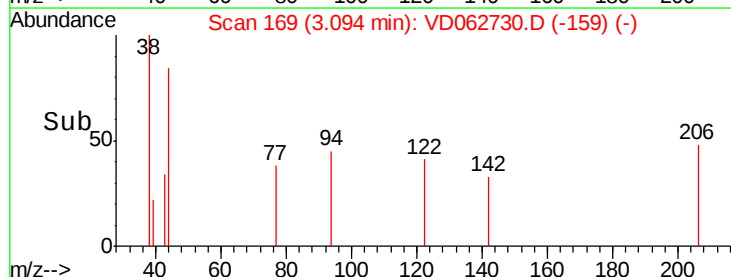
200

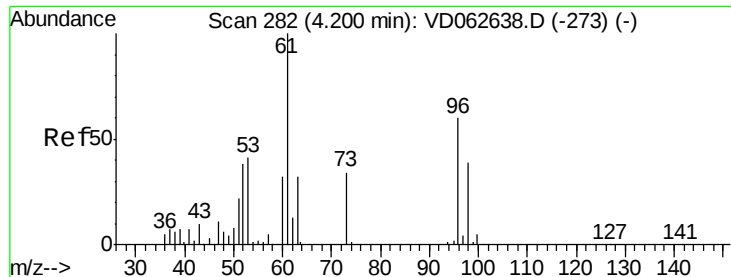
100

0

3.06 3.08 3.10 3.12

Time-->





#15

Acrylonitrile

Concen: 5.698 ug/l

RT: 4.29 min Scan# 290

Delta R.T. 0.09 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampled :

T-1A

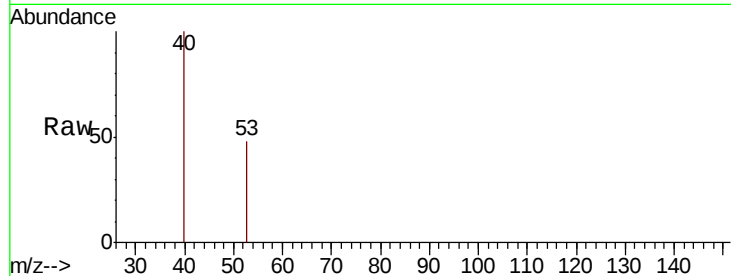
Tot Ion: 53 Resp: 268

Ion Ratio Lower Upper

53 100

52 0.0 73.6 110.4#

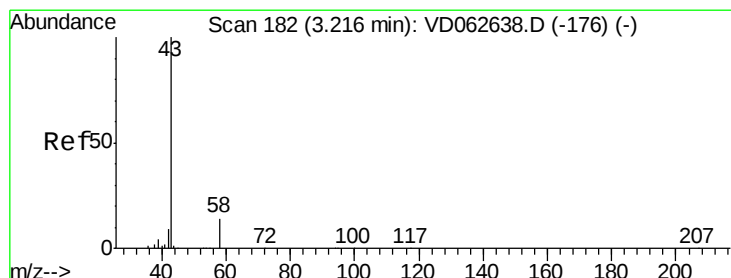
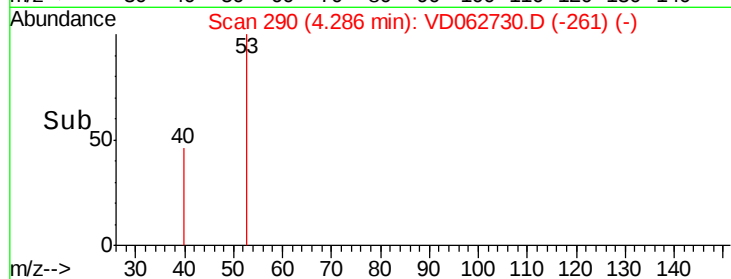
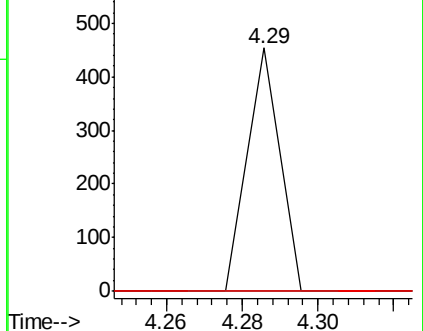
51 0.0 42.0 63.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 3.829 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.00 min

Lab File: VD062730.D

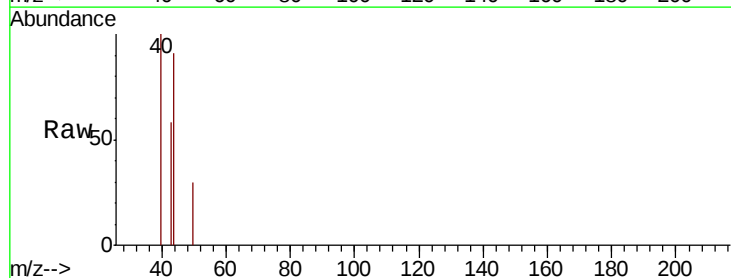
Acq: 17 Jun 2019 16:50

Tgt Ion: 43 Resp: 353

Ion Ratio Lower Upper

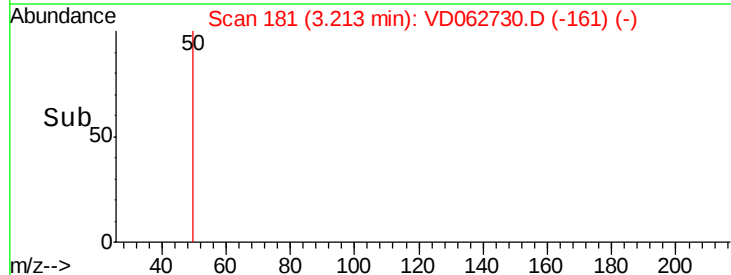
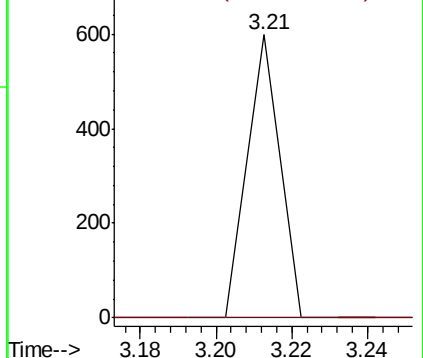
43 100

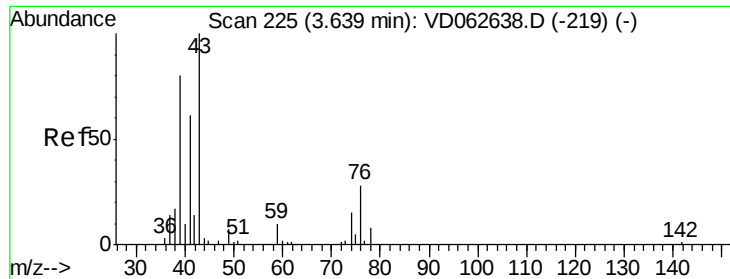
58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

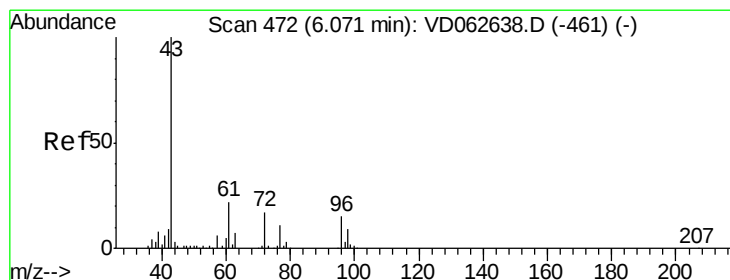
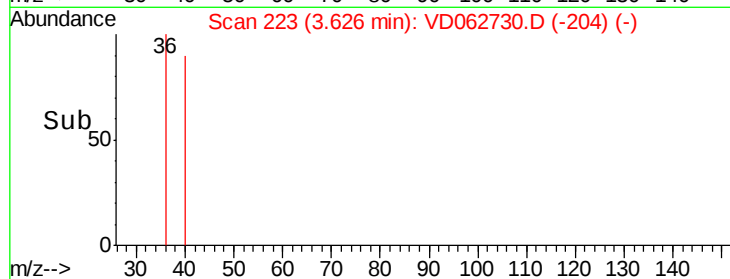
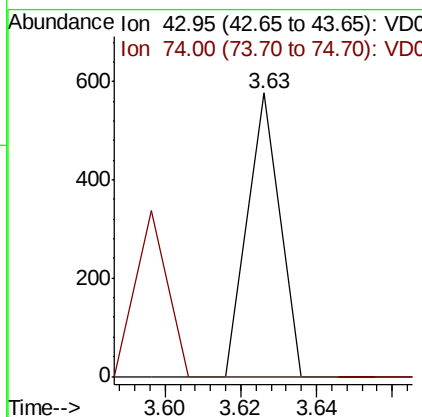
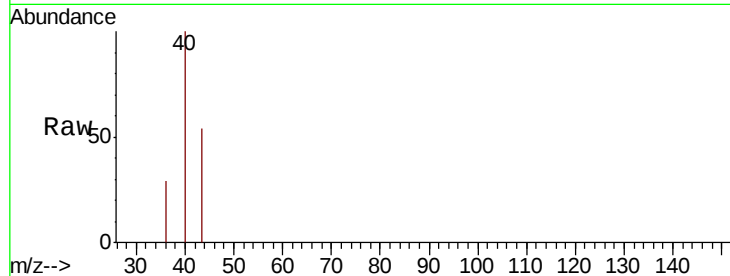




#18
Methyl Acetate
Concen: 2.250 ug/l
RT: 3.63 min Scan# 223
Delta R.T. -0.01 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

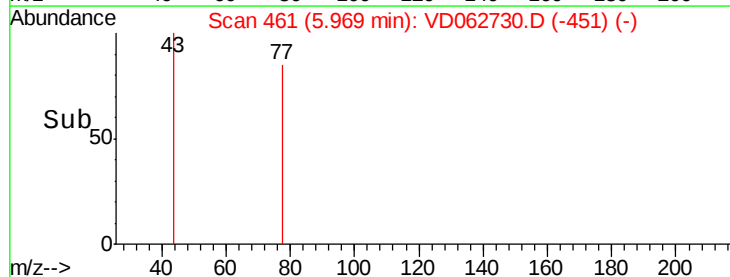
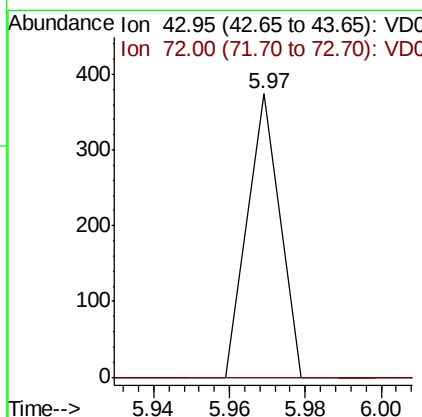
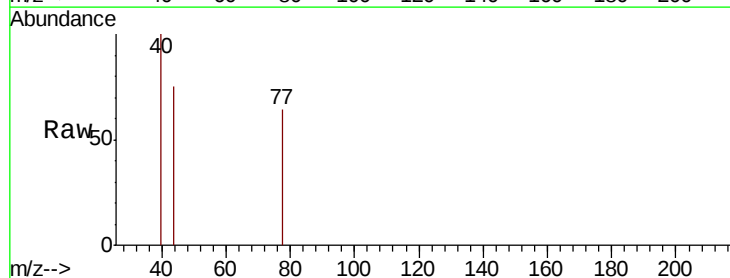
Instrument :
MSVOA_D
ClientSampleId :
T-1A

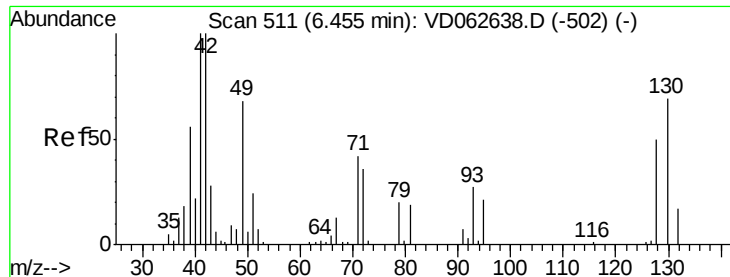
Tot Ion: 43 Resp: 341
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#25
2-Butanone
Concen: 2.457 ug/l
RT: 5.97 min Scan# 461
Delta R.T. -0.10 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

Tgt Ion: 43 Resp: 221
Ion Ratio Lower Upper
43 100
72 0.0 13.5 20.3#





#29

Tetrahydrofuran

Concen: 4.518 ug/l

RT: 6.62 min Scan# 527

Delta R.T. 0.16 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

T-1A

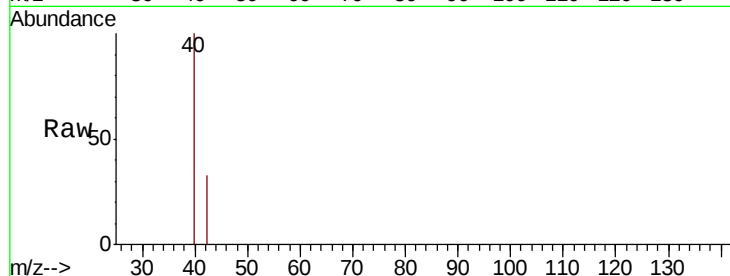
Tot Ion: 42 Resp: 183

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

71 0.0 34.2 51.4#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

6.62

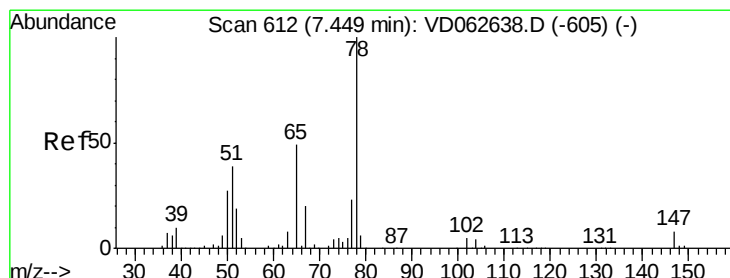
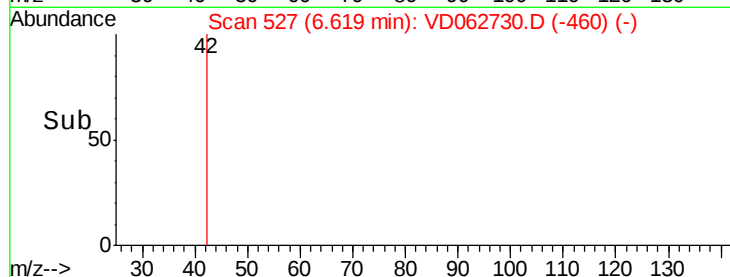
300

200

100

0

Time--> 6.58 6.60 6.62 6.64



#33

1,2-Dichloroethane-d4

Concen: 50.987 ug/l

RT: 7.45 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD062730.D

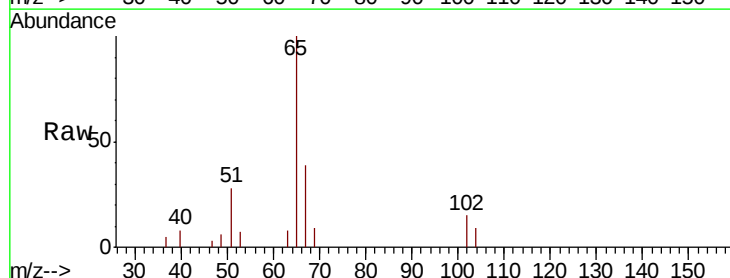
Acq: 17 Jun 2019 16:50

Tgt Ion: 65 Resp: 25673

Ion Ratio Lower Upper

65 100

67 38.6 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

12000

10000

8000

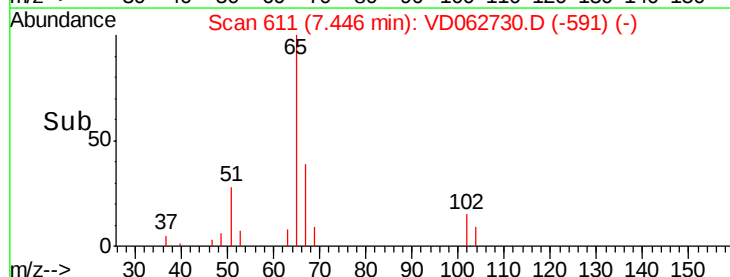
6000

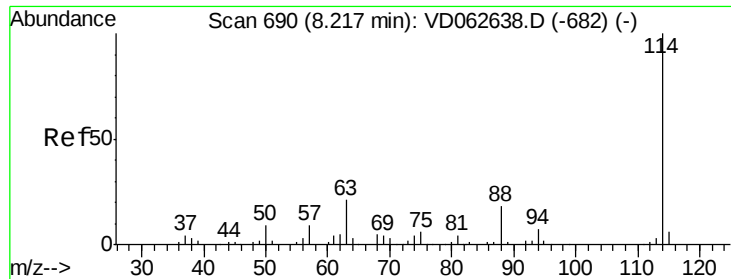
4000

2000

0

Time--> 7.40 7.45 7.50 7.60

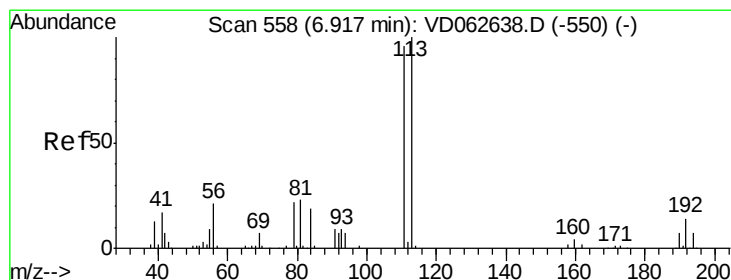
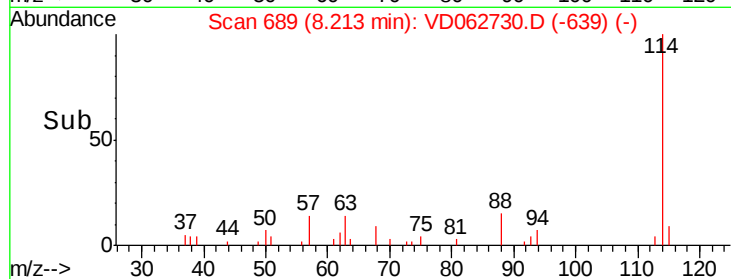
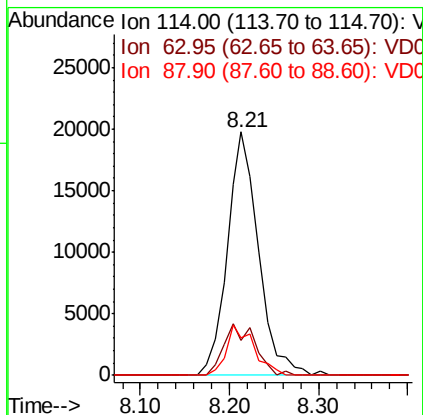
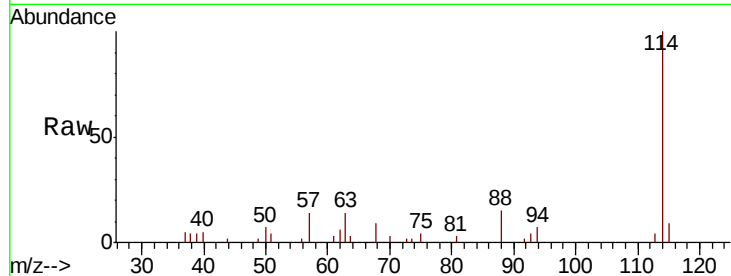




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD062730.D
 Acq: 17 Jun 2019 16:50

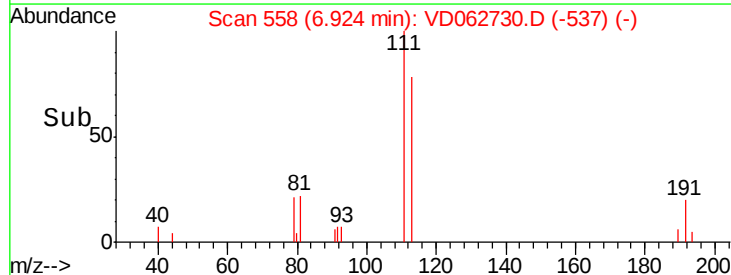
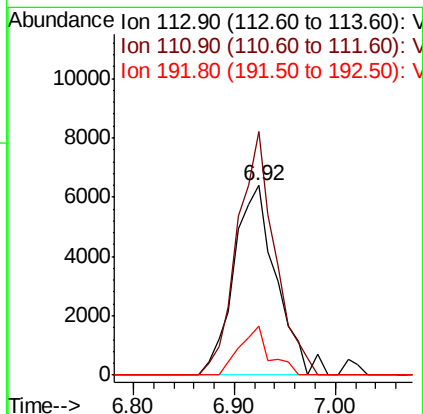
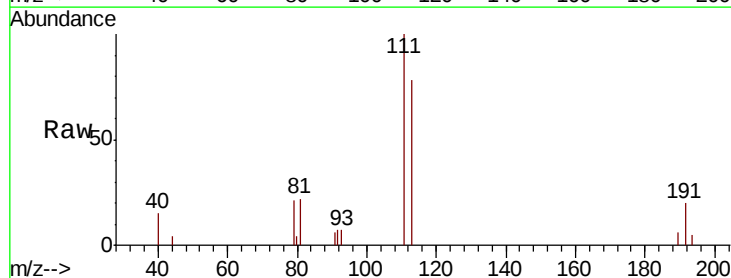
Instrument :
 MSVOA_D
 ClientSampled :
 T-1A

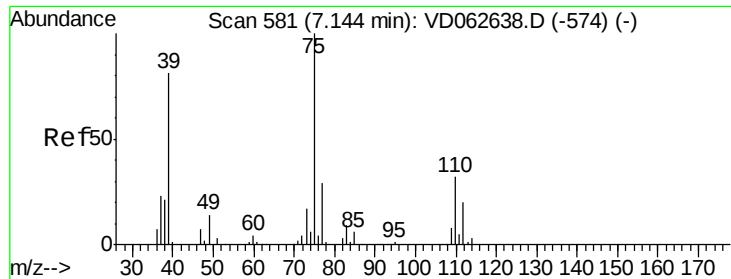
Tot Ion:114 Resp: 48260
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 42.4
 88 15.2 0.0 36.8



#35
 Dibromofluoromethane
 Concen: 36.788 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD062730.D
 Acq: 17 Jun 2019 16:50

Tgt Ion:113 Resp: 18724
 Ion Ratio Lower Upper
 113 100
 111 128.4 76.4 114.6#
 192 26.2 11.4 17.0#





#36

1,1-Dichloropropene

Concen: 4.200 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

T-1A

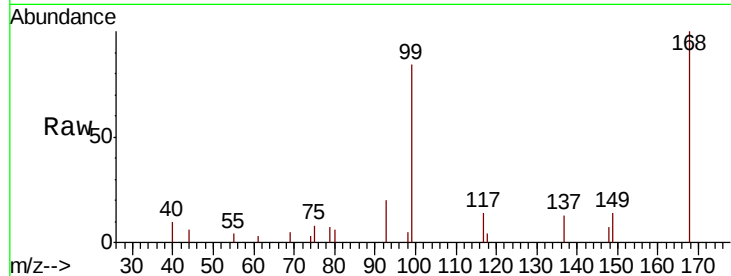
Tot Ion: 75 Resp: 2320

Ion Ratio Lower Upper

75 100

110 0.0 15.9 47.7#

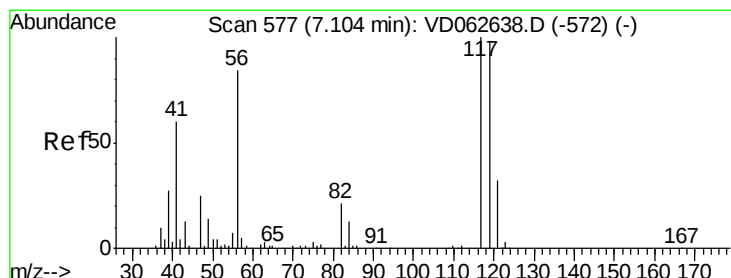
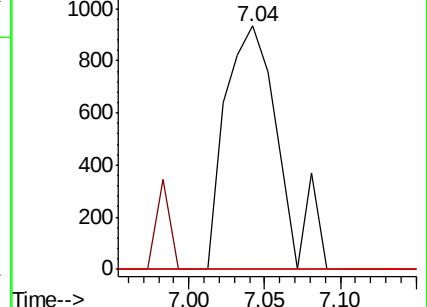
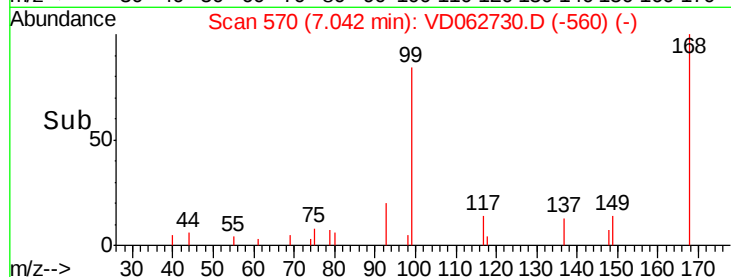
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 4.305 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

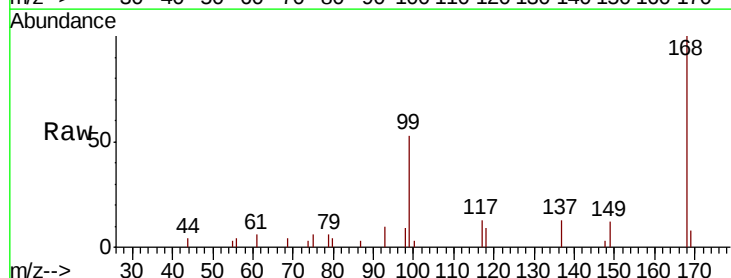
Tgt Ion: 117 Resp: 3758

Ion Ratio Lower Upper

117 100

119 0.0 73.5 110.3#

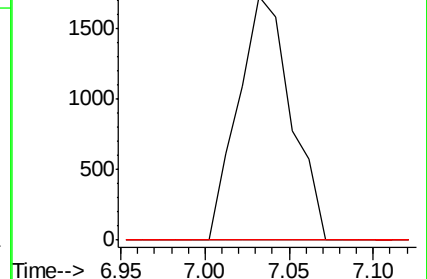
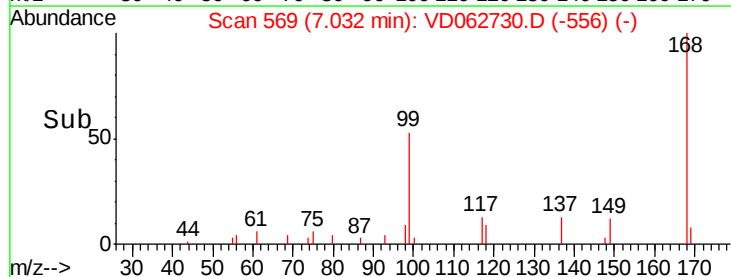
121 0.0 24.2 36.4#

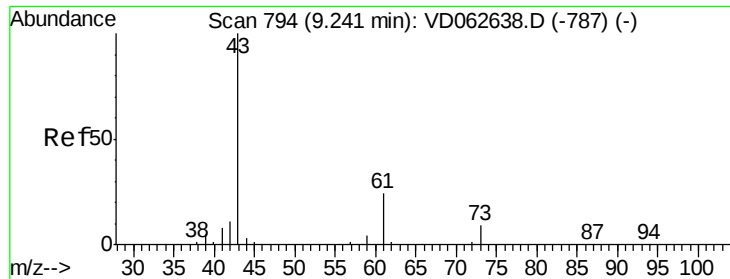


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#43

Isopropyl Acetate

Concen: 1.702 ug/l

RT: 9.26 min Scan# 795

Delta R.T. 0.02 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

T-1A

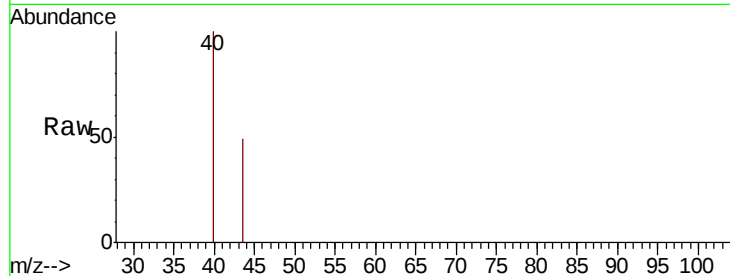
Tot Ion: 43 Resp: 496

Ion Ratio Lower Upper

43 100

61 0.0 19.0 28.6#

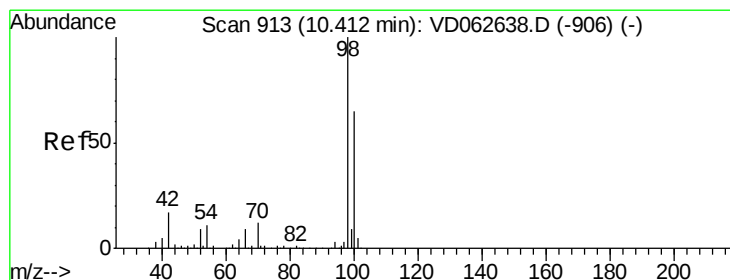
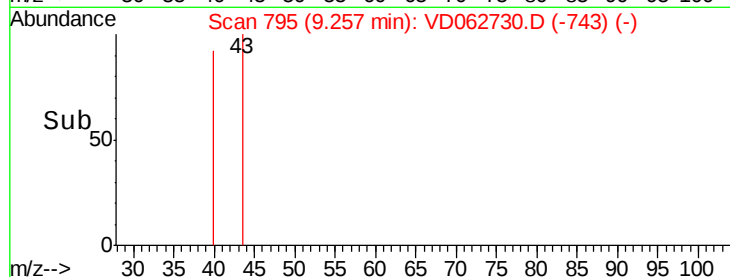
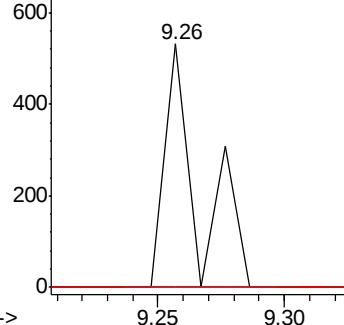
87 0.0 0.3 0.5#



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: 28.073 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD062730.D

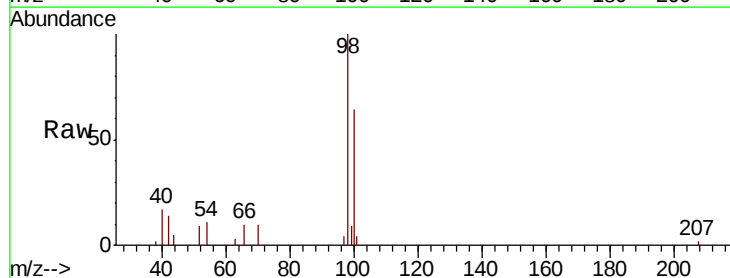
Acq: 17 Jun 2019 16:50

Tgt Ion: 98 Resp: 30057

Ion Ratio Lower Upper

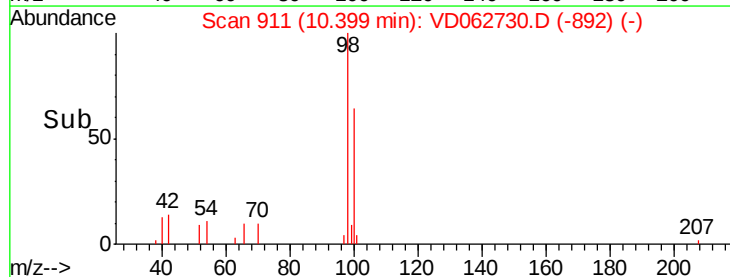
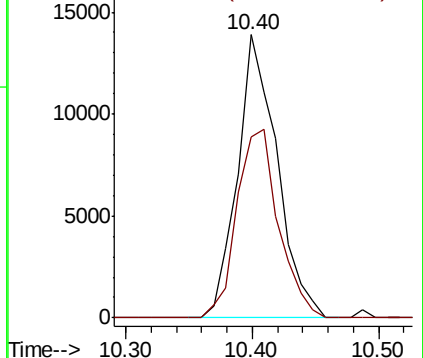
98 100

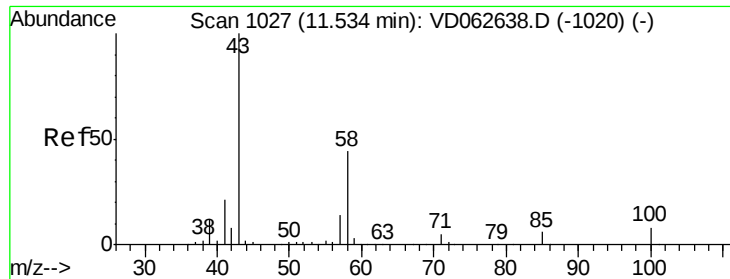
100 64.1 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

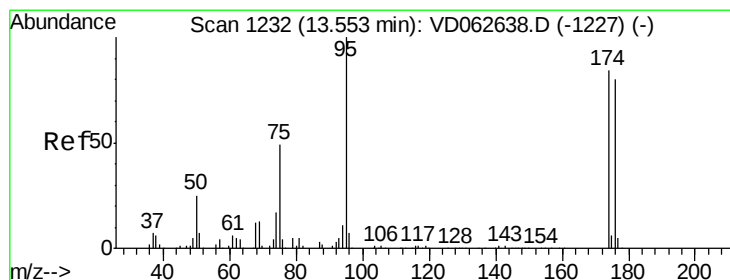
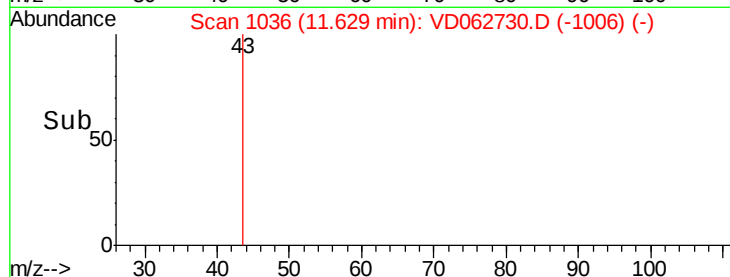
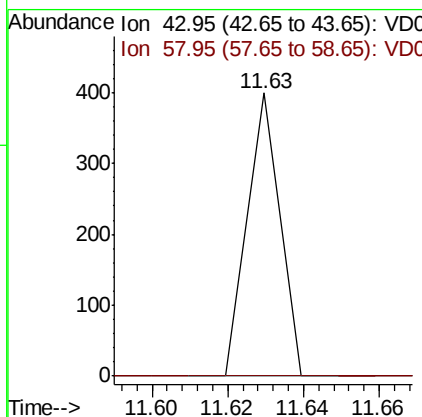
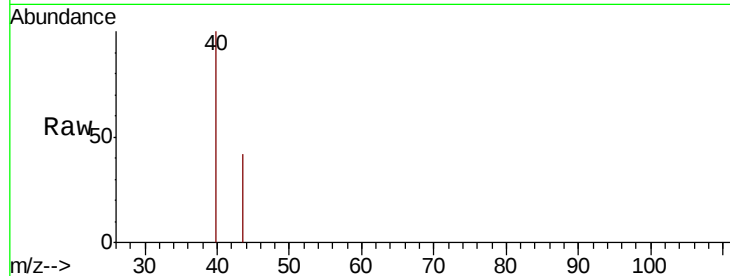




#59
2-Hexanone
Concen: 1.556 ug/l
RT: 11.63 min Scan# 1036
Delta R.T. 0.09 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

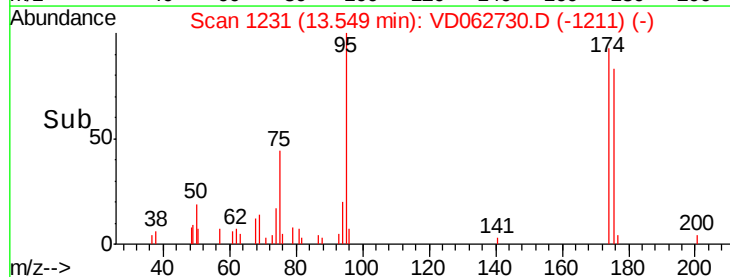
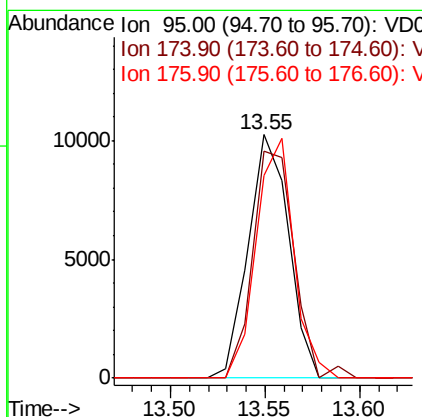
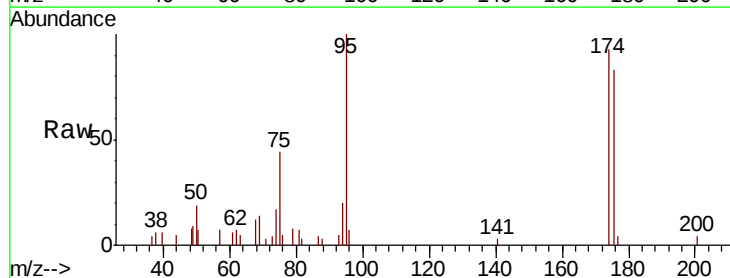
Instrument :
MSVOA_D
ClientSampleId :
T-1A

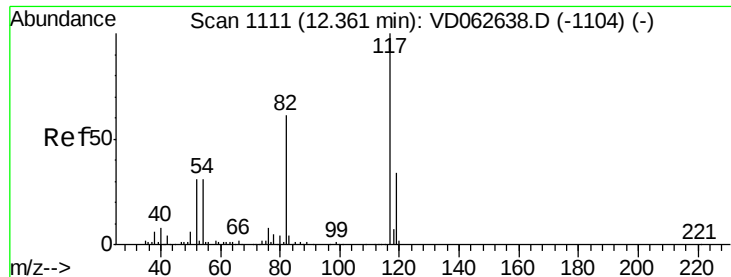
Tot Ion: 43 Resp: 236
Ion Ratio Lower Upper
43 100
58 0.0 21.8 65.4#



#62
4-Bromofluorobenzene
Concen: 30.316 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

Tgt Ion: 95 Resp: 15143
Ion Ratio Lower Upper
95 100
174 93.0 0.0 167.0
176 83.2 0.0 159.2

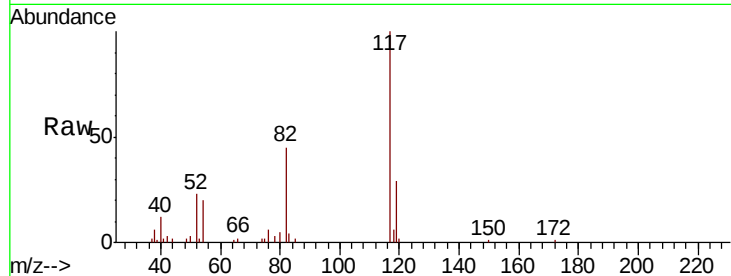




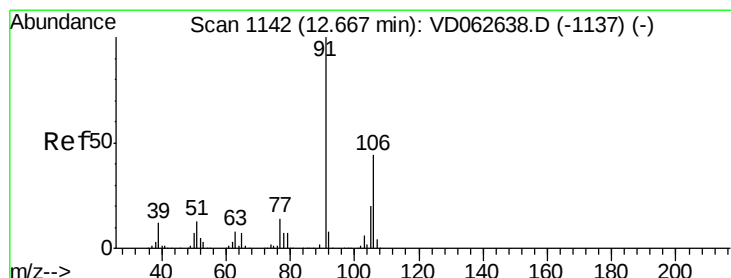
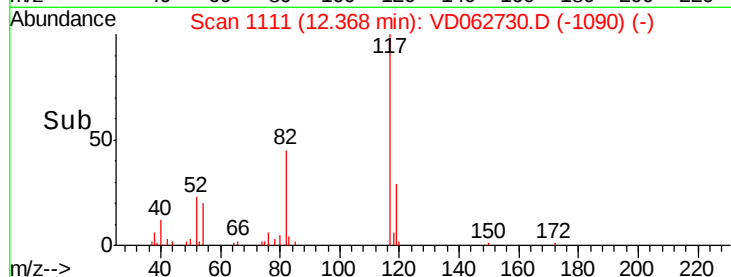
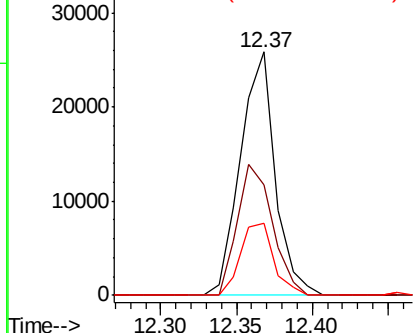
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

Instrument :
MSVOA_D
ClientSampleId :
T-1A

Tot Ion:117 Resp: 41167
Ion Ratio Lower Upper
117 100
82 45.4 48.7 73.1#
119 29.4 27.0 40.6

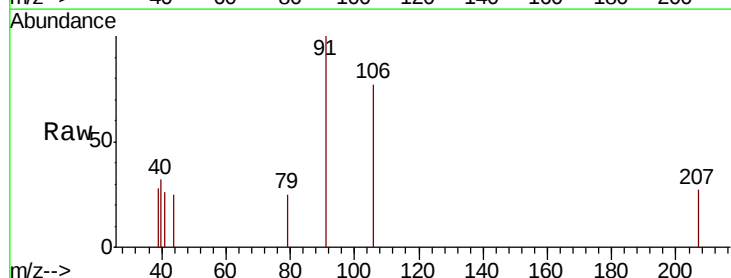


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

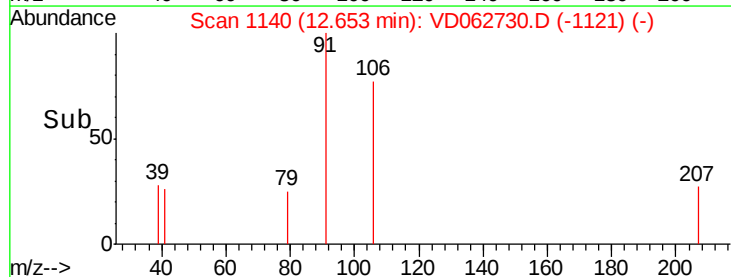
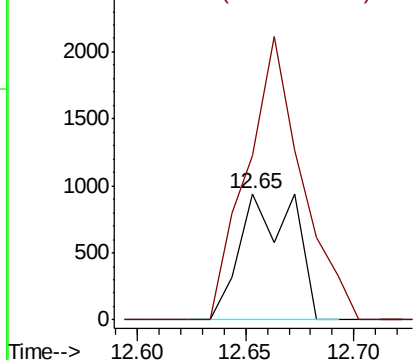


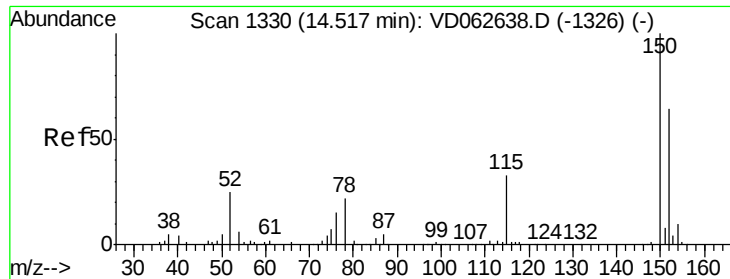
#68
m/p-Xylenes
Concen: 2.888 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

Tgt Ion:106 Resp: 1639
Ion Ratio Lower Upper
106 100
91 129.7 180.2 270.4#



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



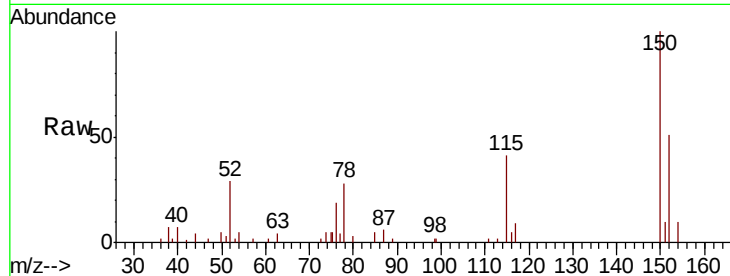


#72

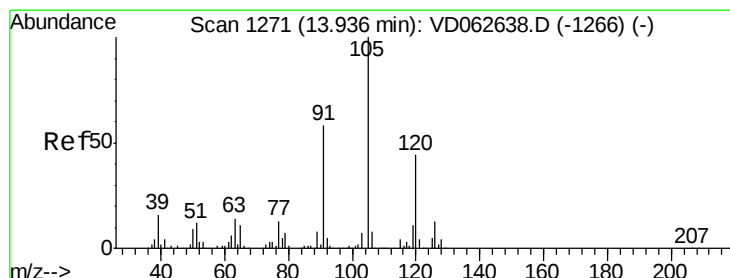
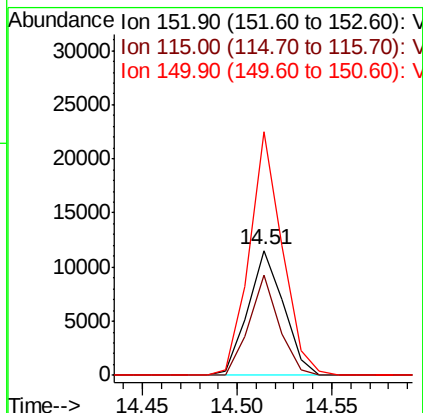
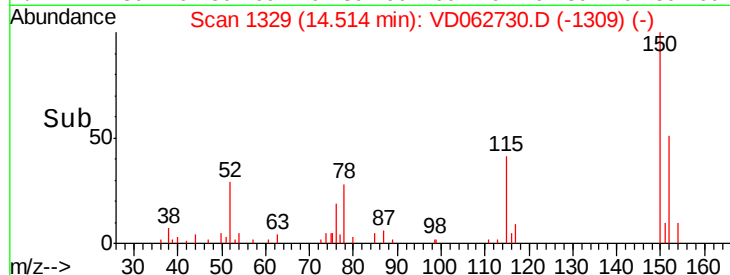
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

Instrument :
MSVOA_D
ClientSampled :
T-1A

Tot Ion:152 Resp: 15099
Ion Ratio Lower Upper
152 100
115 80.3 30.1 90.5
150 195.1 0.0 314.0



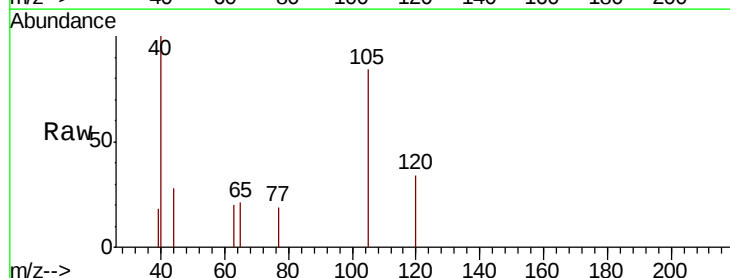
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



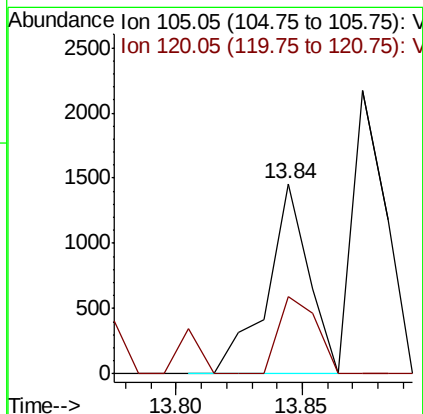
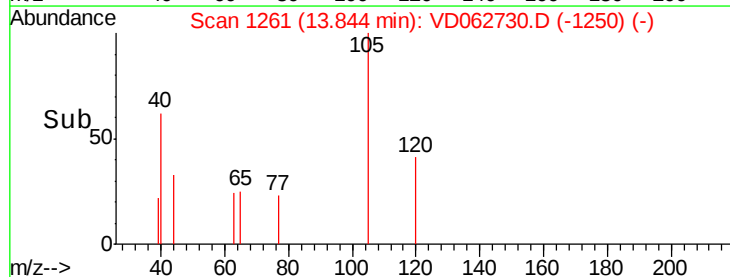
#80

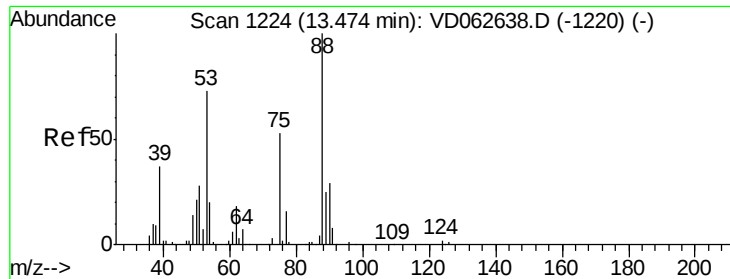
1,3,5-Trimethylbenzene
Concen: 1.781 ug/l
RT: 13.84 min Scan# 1261
Delta R.T. -0.09 min
Lab File: VD062730.D
Acq: 17 Jun 2019 16:50

Tgt Ion:105 Resp: 1675
Ion Ratio Lower Upper
105 100
120 40.5 22.1 66.5



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 116.027 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

T-1A

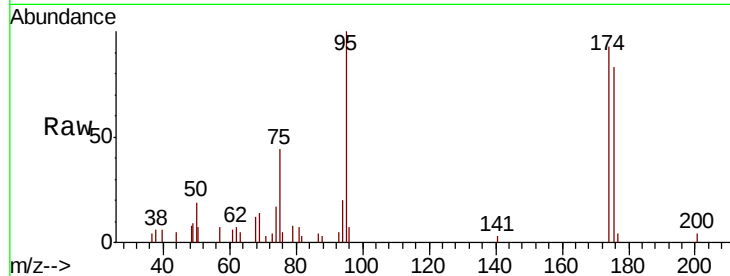
Tot Ion: 75 Resp: 7383

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

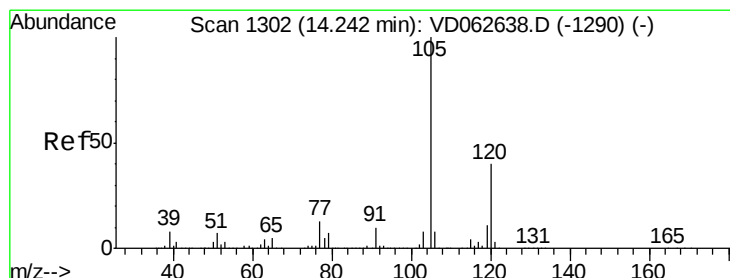
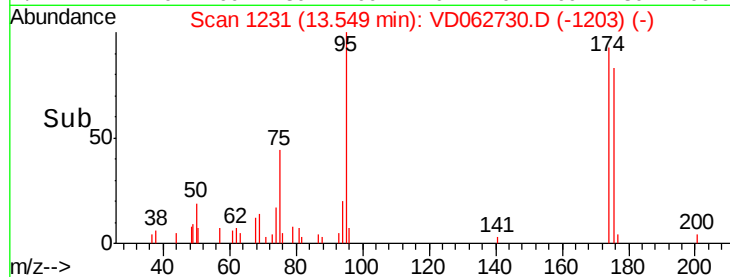
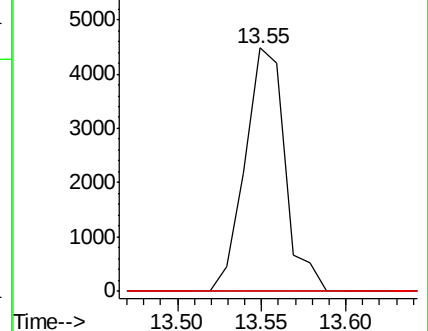
89 0.0 37.0 55.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 4.274 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD062730.D

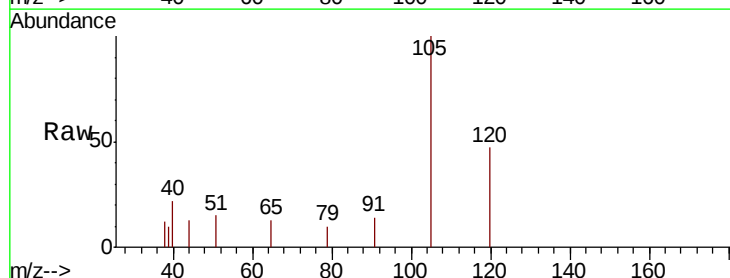
Acq: 17 Jun 2019 16:50

Tgt Ion:105 Resp: 3980

Ion Ratio Lower Upper

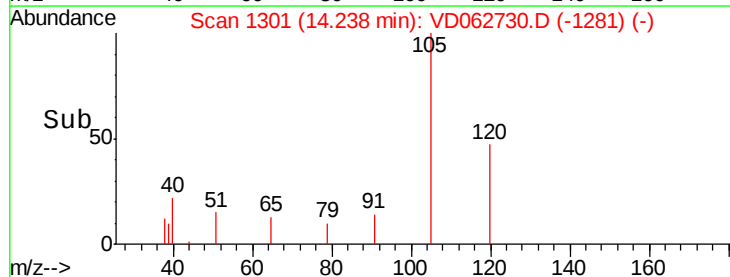
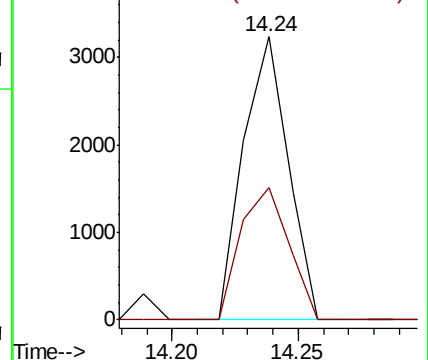
105 100

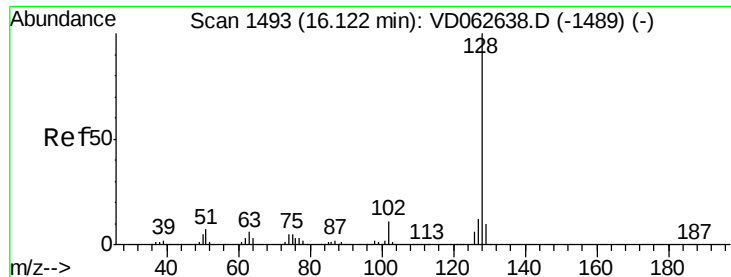
120 46.7 20.3 60.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 6.563 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VD062730.D

Acq: 17 Jun 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

T-1A

Tot Ion:128 Resp: 1832

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.1 12.1#

