

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082019\
 Data File : VD063702.D
 Acq On : 21 Aug 2019 1:04
 Operator : JC/SY
 Sample : K4388-18
 Misc : 6.09g/5ml/MSVOA_D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E2-(0)

Quant Time: Aug 21 03:55:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	772819	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.21	114	1252091	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	921557	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	287205	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	588583	71.25	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	142.50%	
35) Dibromofluoromethane	6.92	113	559501	53.06	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.12%	
50) Toluene-d8	10.40	98	1150724	49.63	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	13.55	95	356959	33.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	67.94%	

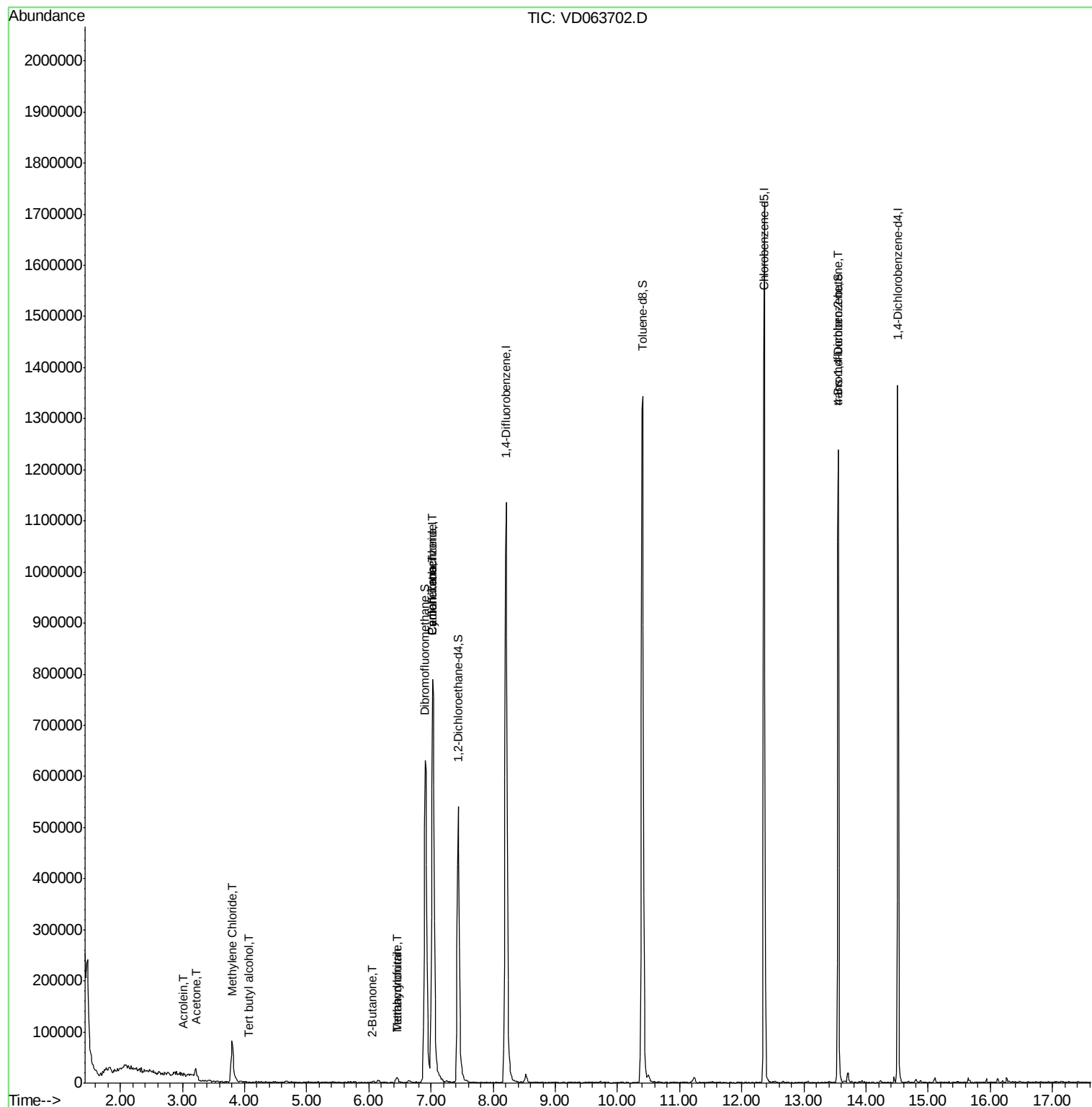
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.06	59	916	2.547	ug/l #	71
13) Acrolein	3.02	56	453	1.280	ug/l #	18
16) Acetone	3.22	43	42723	25.441	ug/l #	88
20) Methylene Chloride	3.80	84	51459	7.087	ug/l #	76
25) 2-Butanone	6.06	43	3044	1.835	ug/l #	58
29) Tetrahydrofuran	6.45	42	8075	10.449	ug/l #	65
31) Cyclohexane	7.04	56	15881	2.129	ug/l #	1
38) Carbon Tetrachloride	7.03	117	77690	4.657	ug/l #	17
41) Methacrylonitrile	6.46	41	7614	1.304	ug/l #	78
81) trans-1,4-Dichloro-2-buten	13.54	75	164474	185.653	ug/l #	1

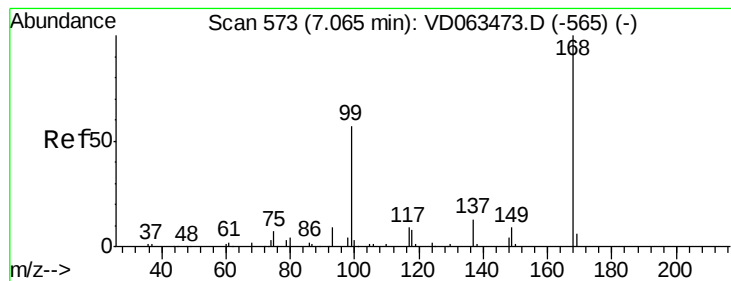
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD082019\
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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampleId :

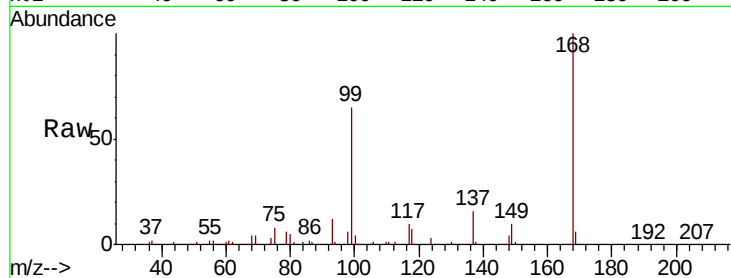
T6-E2-(0)

Tgt Ion:168 Resp: 772819

Ion Ratio Lower Upper

168 100

99 65.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

250000

200000

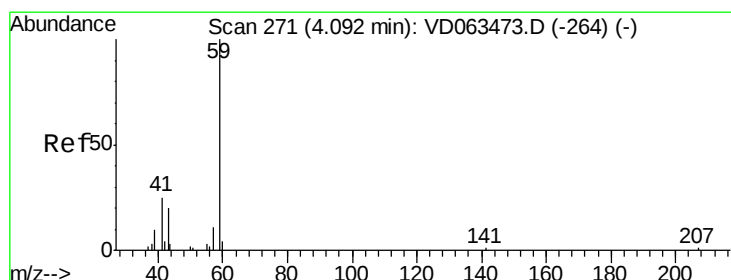
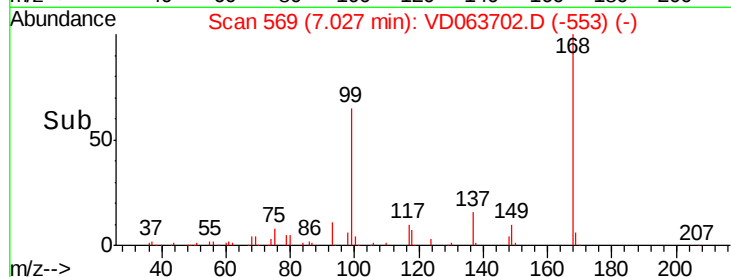
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.547 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.03 min

Lab File: VD063702.D

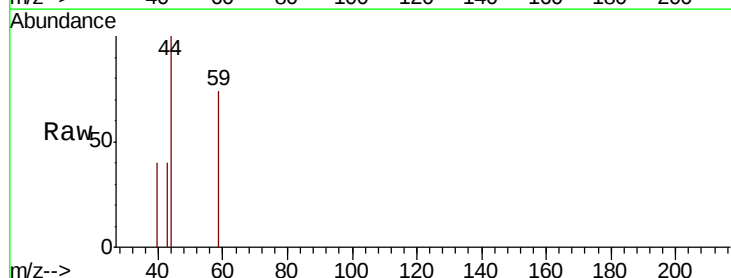
Acq: 21 Aug 2019 1:04

Tgt Ion: 59 Resp: 916

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.06

800

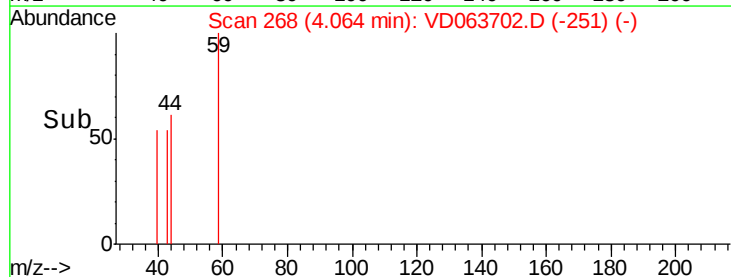
600

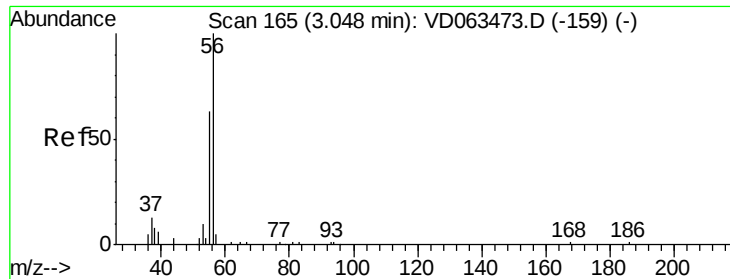
400

200

0

Time-->





#13

Acrolein

Concen: 1.280 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampleId :

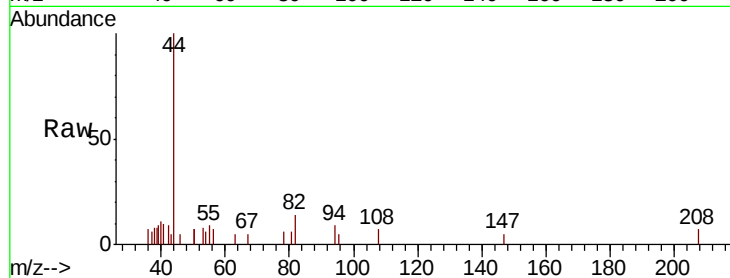
T6-E2-(0)

Tgt Ion: 56 Resp: 453

Ion Ratio Lower Upper

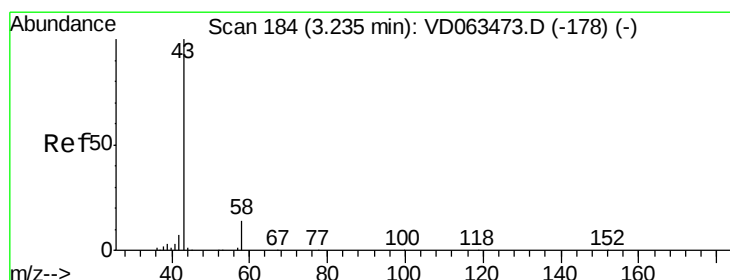
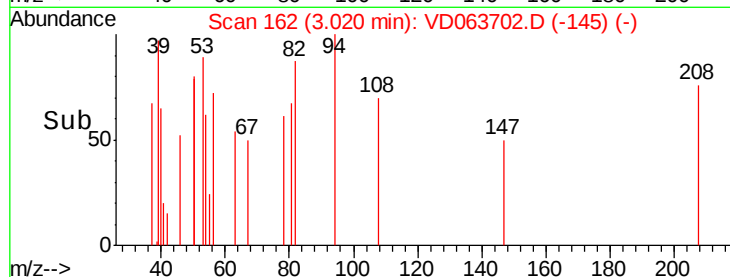
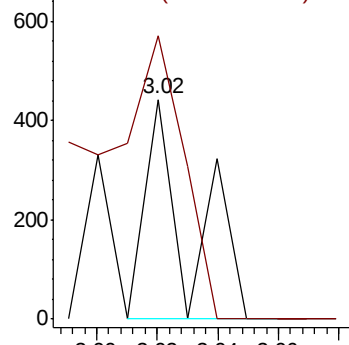
56 100

55 128.7 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 25.441 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063702.D

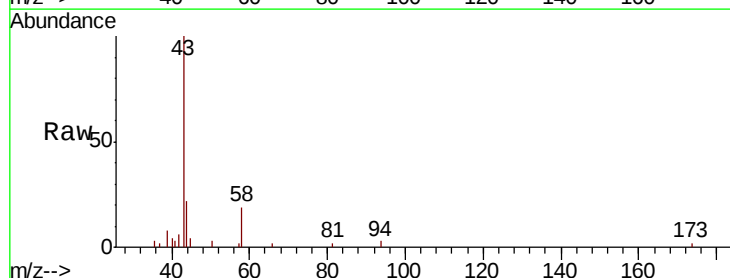
Acq: 21 Aug 2019 1:04

Tgt Ion: 43 Resp: 42723

Ion Ratio Lower Upper

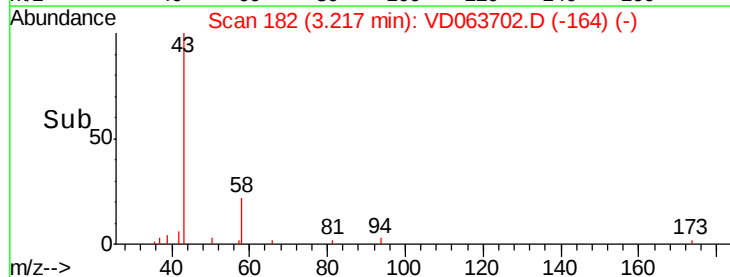
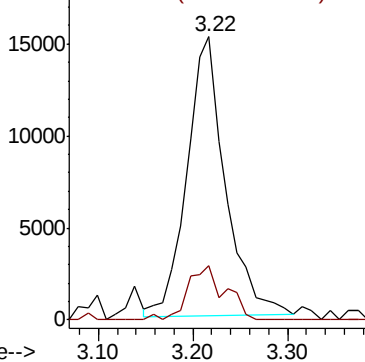
43 100

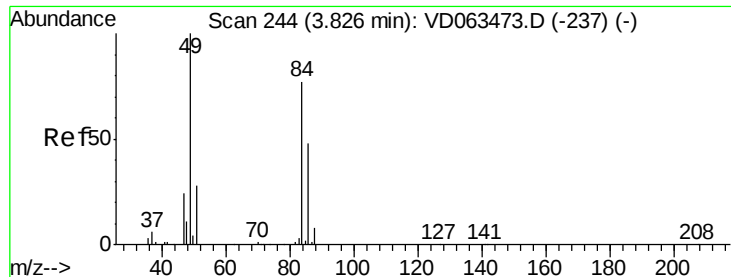
58 19.3 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#20

Methylene Chloride

Concen: 7.087 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.03 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampleId :

T6-E2-(0)

Tgt Ion: 84 Resp: 51459

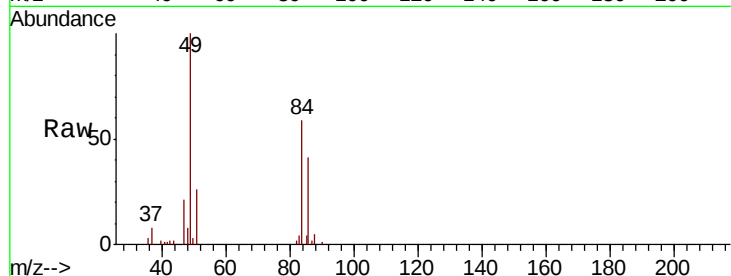
Ion Ratio Lower Upper

84 100

49 168.5 103.4 155.2#

51 44.0 28.5 42.7#

86 68.4 49.4 74.2

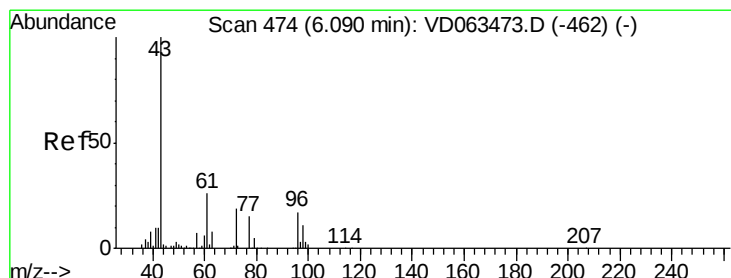
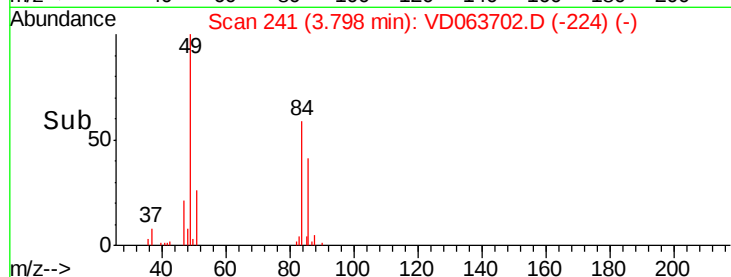
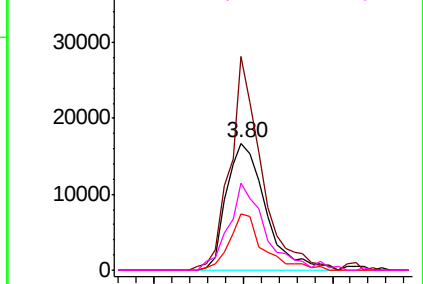


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 1.835 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.03 min

Lab File: VD063702.D

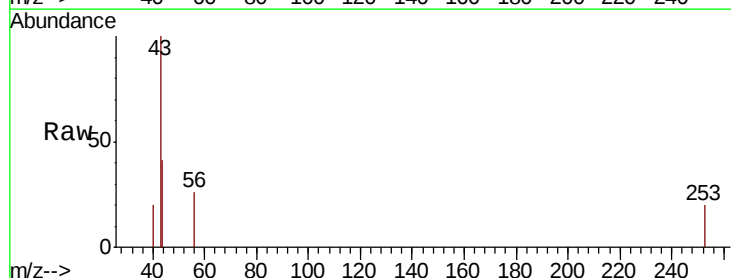
Acq: 21 Aug 2019 1:04

Tgt Ion: 43 Resp: 3044

Ion Ratio Lower Upper

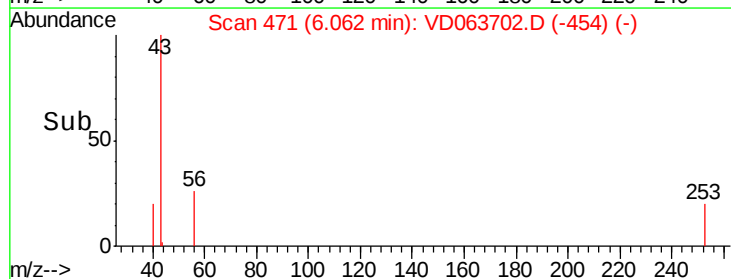
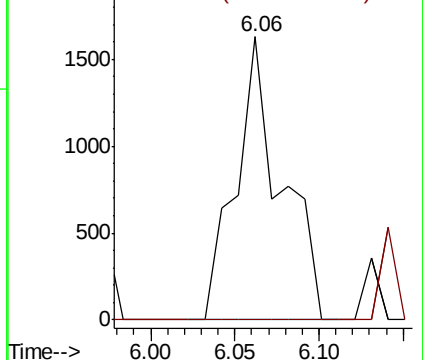
43 100

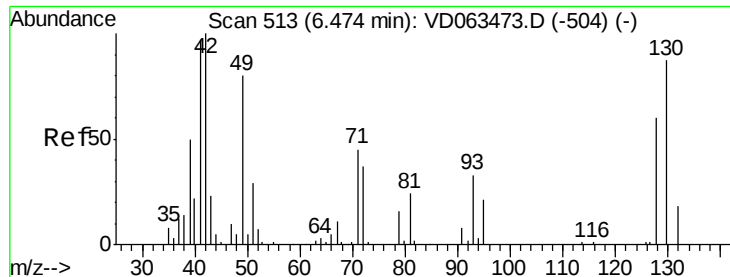
72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 10.449 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampleId :

T6-E2-(0)

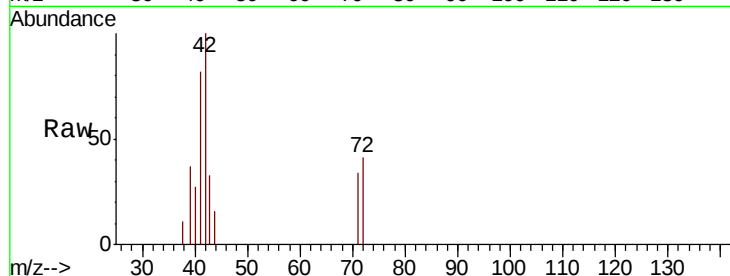
Tgt Ion: 42 Resp: 8075

Ion Ratio Lower Upper

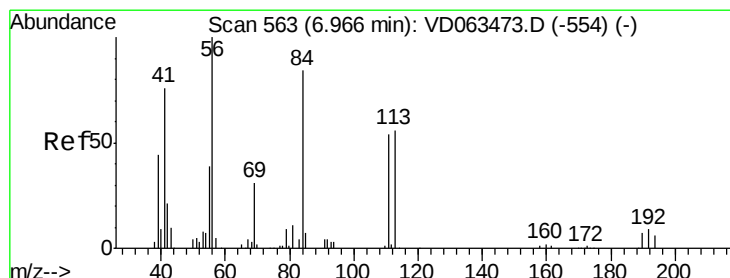
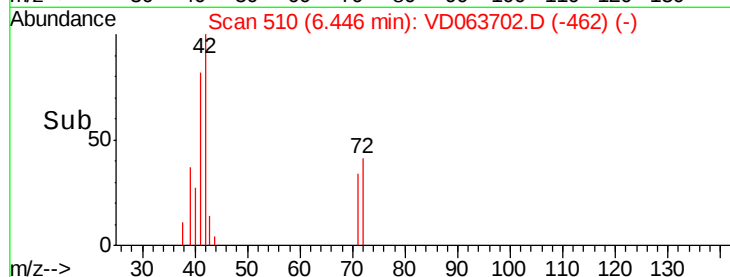
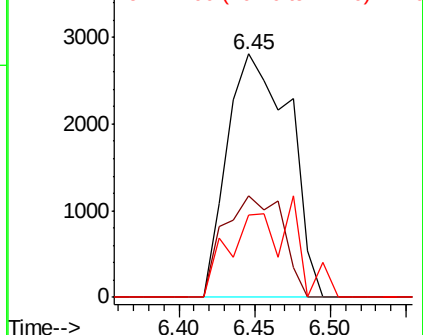
42 100

72 39.2 31.5 47.3

71 0.0 33.8 50.8#



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



#31

Cyclohexane

Concen: 2.129 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

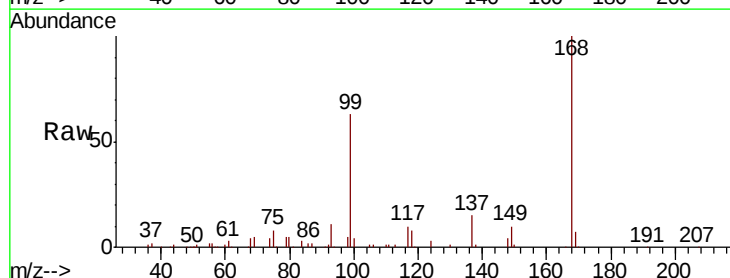
Tgt Ion: 56 Resp: 15881

Ion Ratio Lower Upper

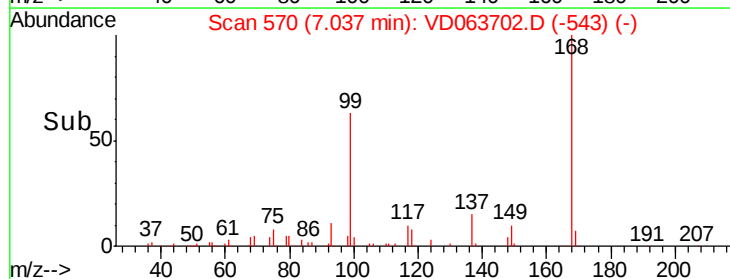
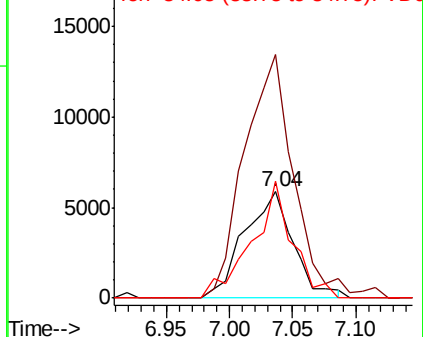
56 100

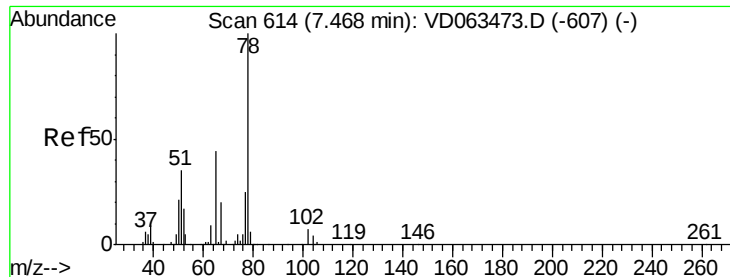
69 228.6 25.0 37.6#

84 109.9 69.7 104.5#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

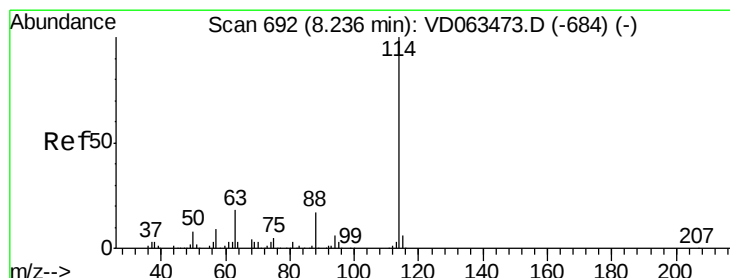
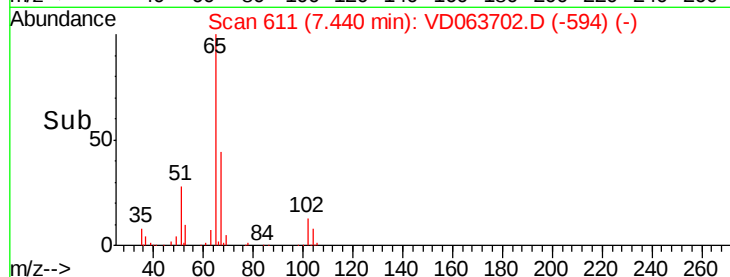
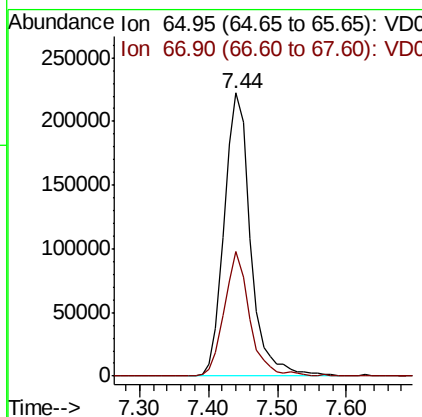
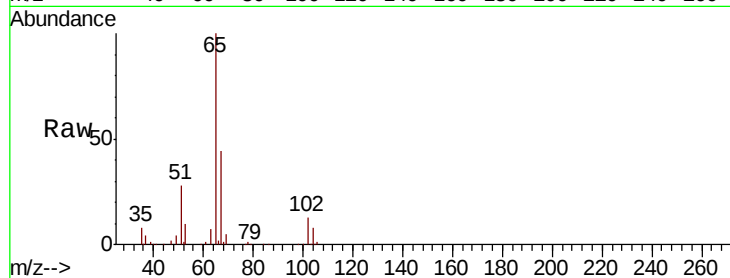




#33
 1,2-Dichloroethane-d4
 Concen: 71.250 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD063702.D
 Acq: 21 Aug 2019 1:04

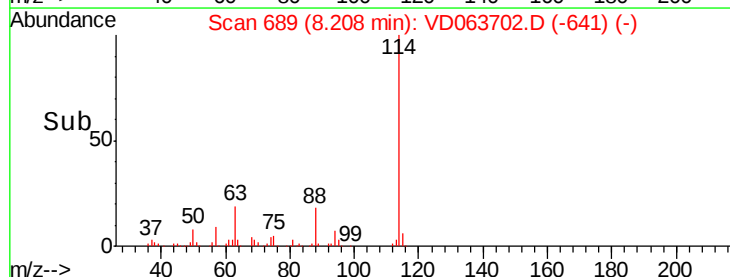
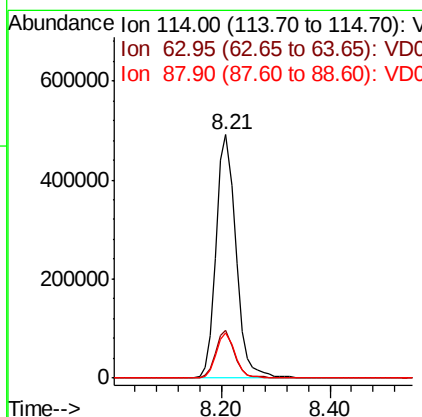
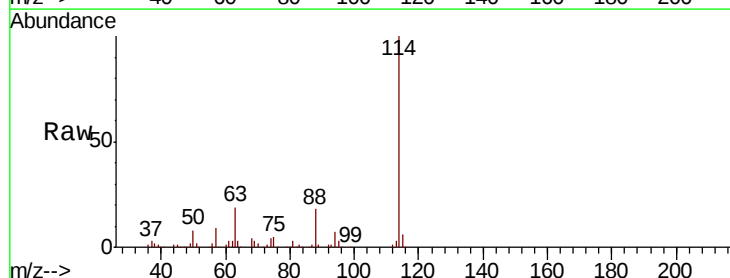
Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E2-(0)

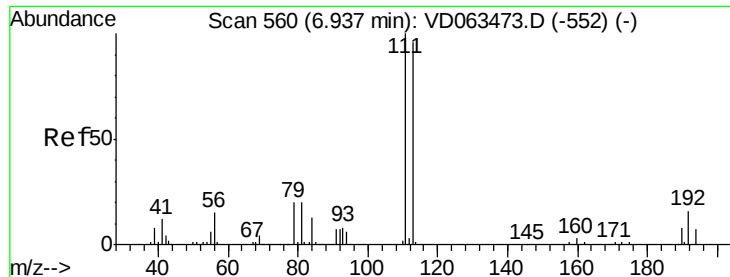
Tgt Ion: 65 Resp: 588583
 Ion Ratio Lower Upper
 65 100
 67 44.0 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD063702.D
 Acq: 21 Aug 2019 1:04

Tgt Ion: 114 Resp: 1252091
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 36.2
 88 18.5 0.0 35.0





#35

Dibromofluoromethane

Concen: 53.057 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampled :

T6-E2-(0)

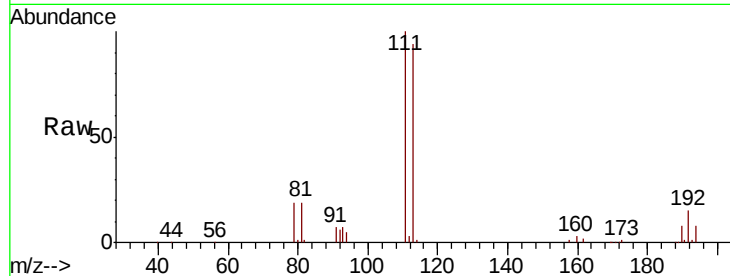
Tgt Ion:113 Resp: 559501

Ion Ratio Lower Upper

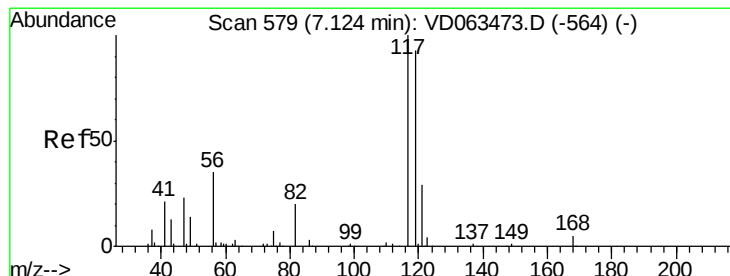
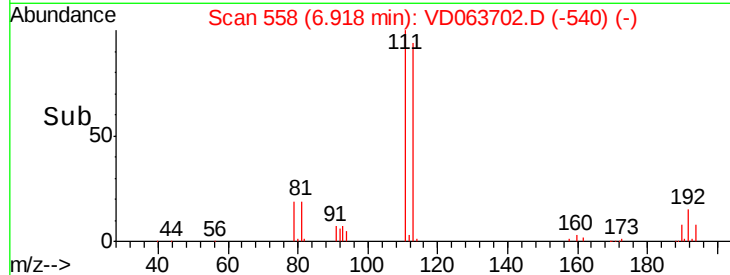
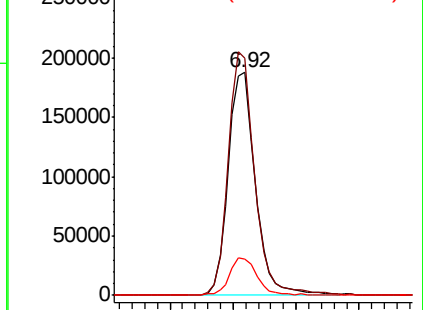
113 100

111 106.2 83.1 124.7

192 16.3 13.1 19.7



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



#38

Carbon Tetrachloride

Concen: 4.657 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

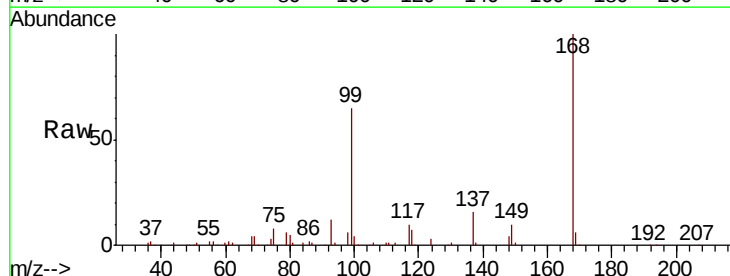
Tgt Ion:117 Resp: 77690

Ion Ratio Lower Upper

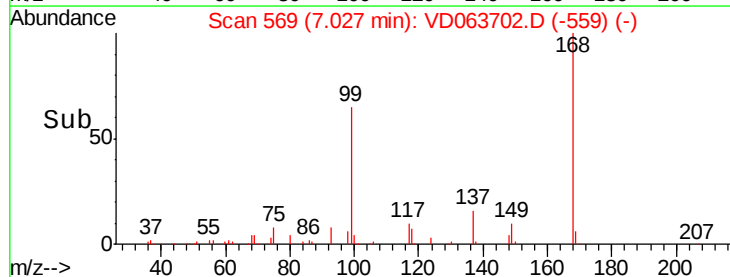
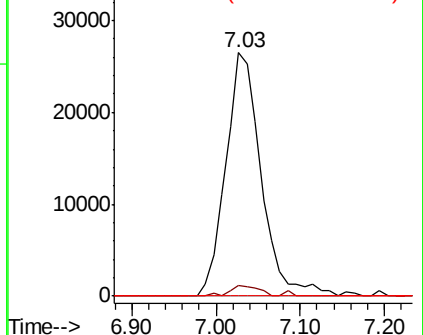
117 100

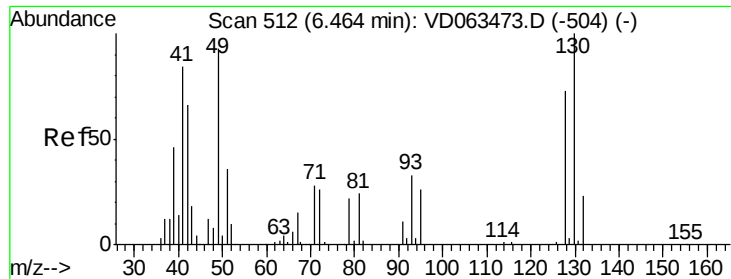
119 4.2 74.2 111.2#

121 0.0 23.1 34.7#



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





#41

Methacrylonitrile

Concen: 1.304 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampleId :

T6-E2-(0)

Tgt Ion: 41 Resp: 7614

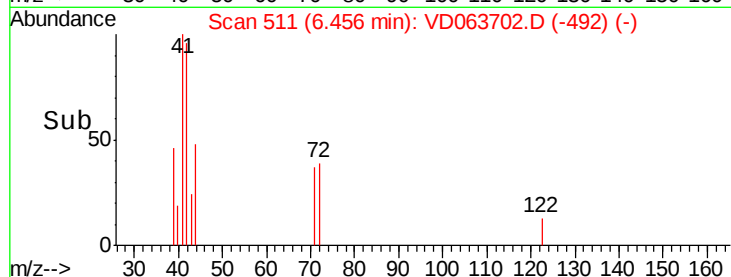
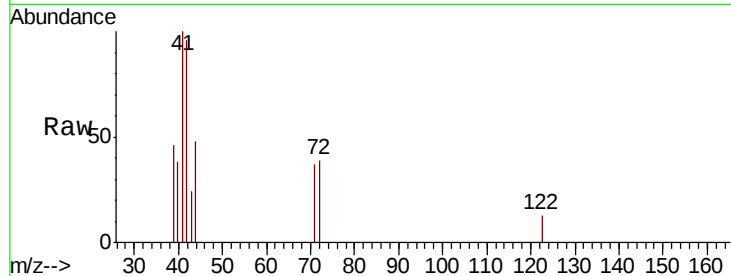
Ion Ratio Lower Upper

41 100

39 45.8 44.6 66.8

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

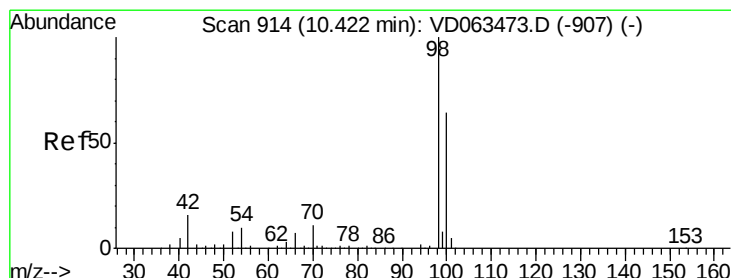
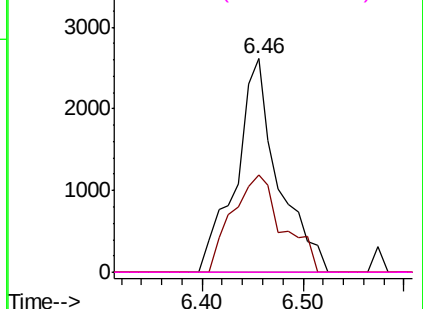


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 49.634 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063702.D

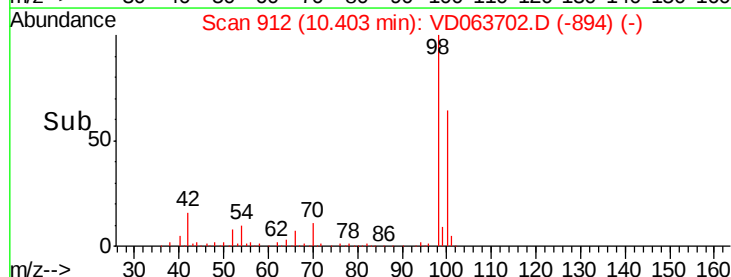
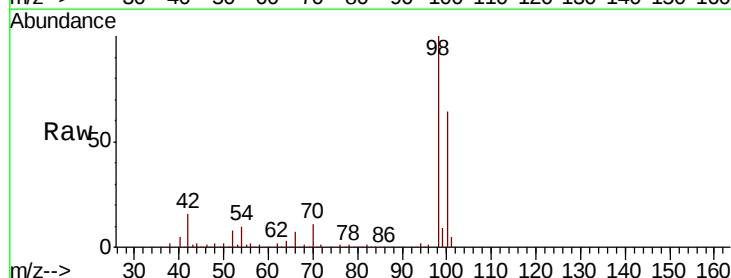
Acq: 21 Aug 2019 1:04

Tgt Ion: 98 Resp: 1150724

Ion Ratio Lower Upper

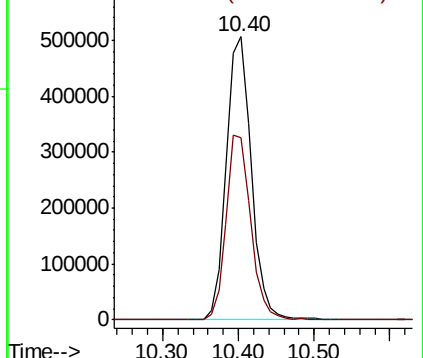
98 100

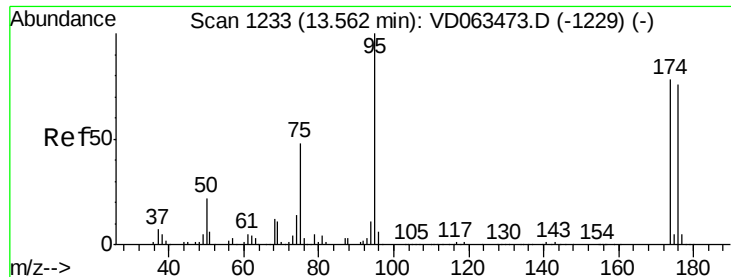
100 64.3 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 33.970 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampleId :

T6-E2-(0)

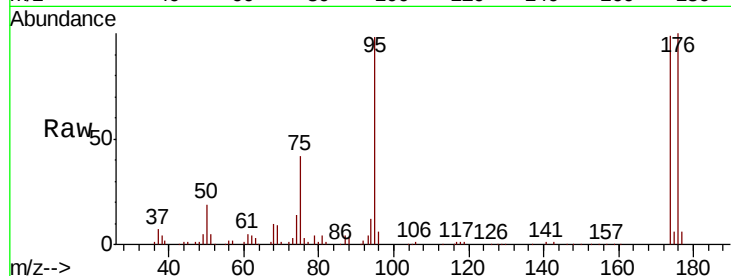
Tgt Ion: 95 Resp: 356959

Ion Ratio Lower Upper

95 100

174 101.0 0.0 155.4

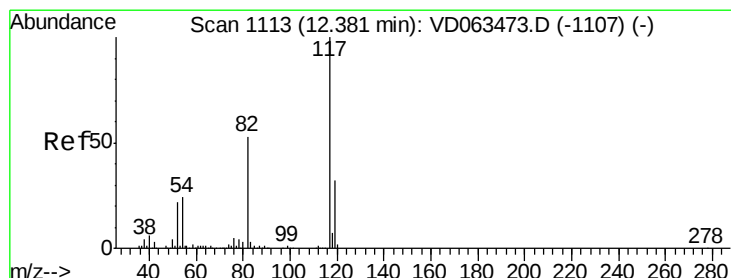
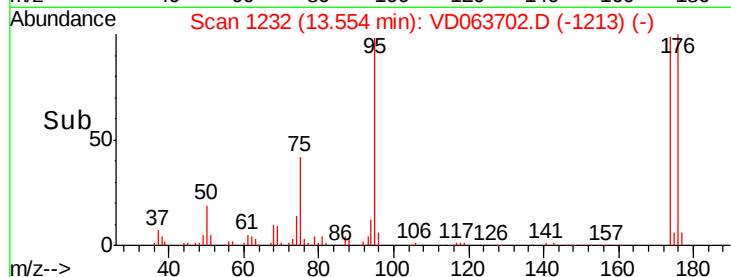
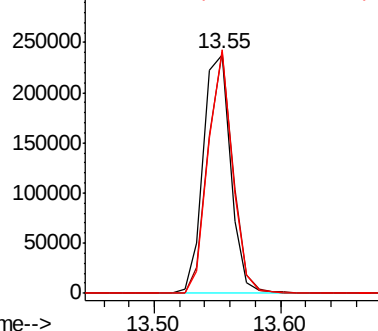
176 102.0 0.0 152.4



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. -0.02 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

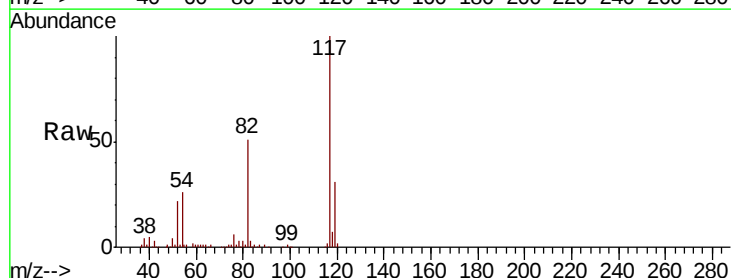
Tgt Ion: 117 Resp: 921557

Ion Ratio Lower Upper

117 100

82 51.4 42.0 63.0

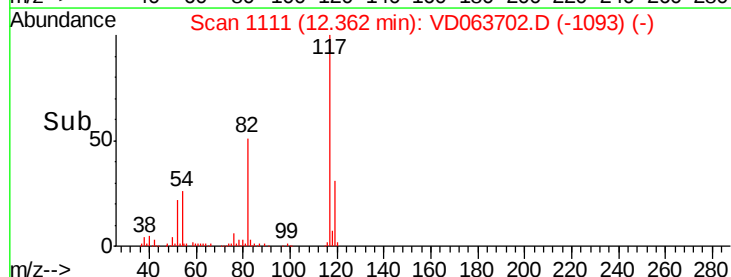
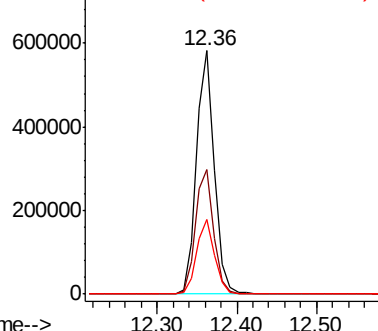
119 30.6 25.4 38.0

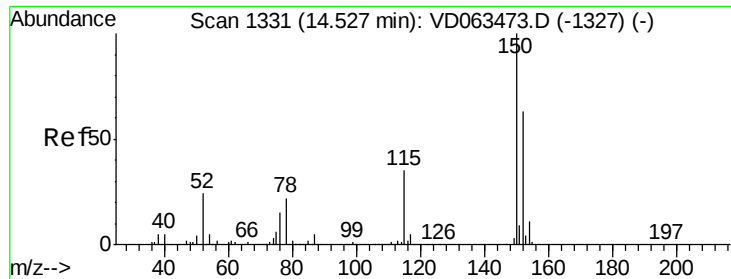


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.02 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

Instrument :

MSVOA_D

ClientSampled :

T6-E2-(0)

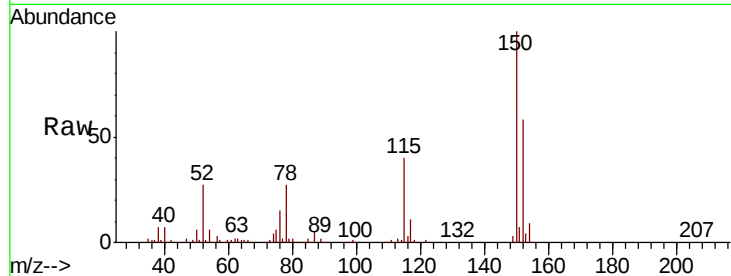
Tgt Ion:152 Resp: 287205

Ion Ratio Lower Upper

152 100

115 68.9 30.9 92.7

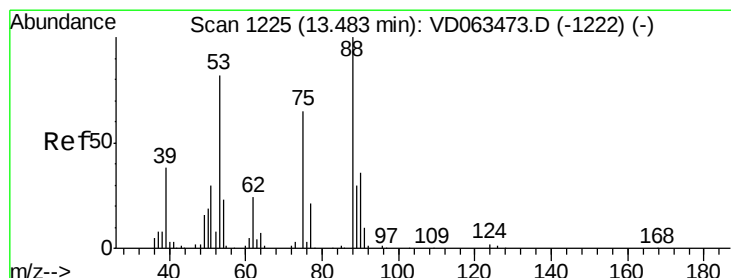
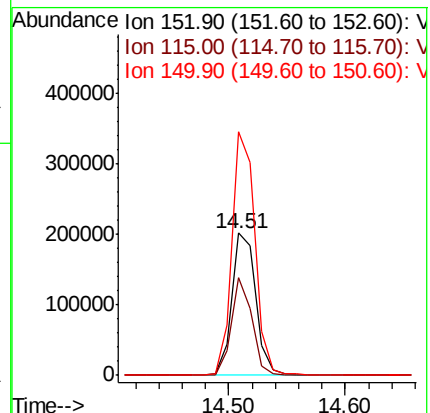
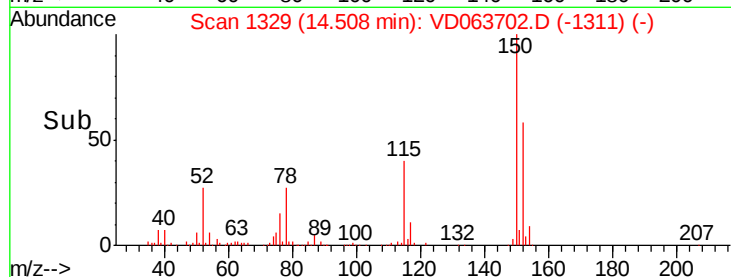
150 171.2 0.0 318.6



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



#81

trans-1,4-Dichloro-2-butene

Concen: 185.653 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063702.D

Acq: 21 Aug 2019 1:04

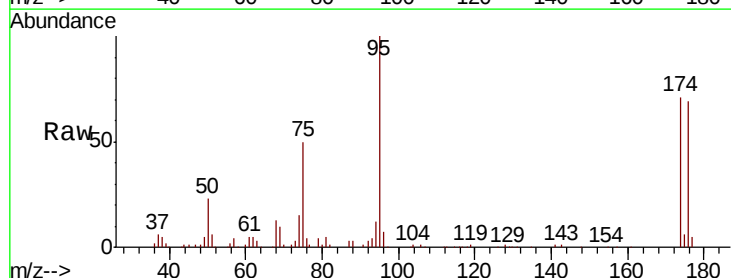
Tgt Ion: 75 Resp: 164474

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

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

