

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081519\
 Data File : VD063614.D
 Acq On : 15 Aug 2019 19:10
 Operator : JC/SY
 Sample : K4356-09
 Misc : 5.20g/5ml/MSVOA_D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

Quant Time: Aug 16 01:06:38 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	884289	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	1233999	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	822318	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	293898	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	417376	44.16	ug/l	-0.03
Spiked Amount			Recovery	=	88.32%	
35) Dibromofluoromethane	6.92	113	469436	45.17	ug/l	-0.02
Spiked Amount			Recovery	=	90.34%	
50) Toluene-d8	10.40	98	929532	40.68	ug/l	-0.02
Spiked Amount			Recovery	=	81.36%	
62) 4-Bromofluorobenzene	13.55	95	269768	26.05	ug/l	-0.01
Spiked Amount			Recovery	=	52.10%	

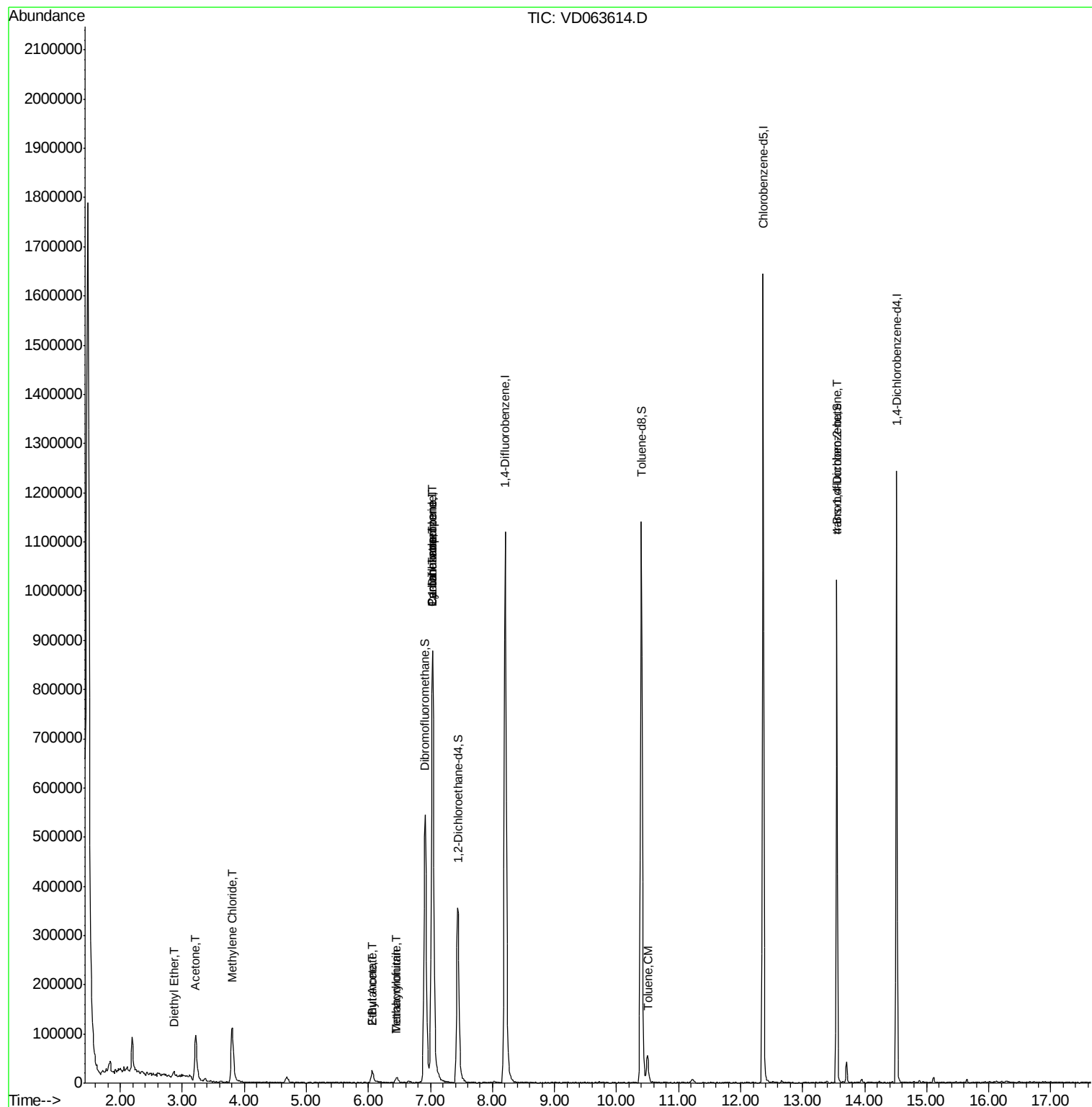
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.87	74	3300	1.436	ug/l	65
16) Acetone	3.22	43	176286	91.745	ug/l	99
20) Methylene Chloride	3.80	84	71935	8.658	ug/l	98
25) 2-Butanone	6.06	43	44336	23.363	ug/l #	86
29) Tetrahydrofuran	6.45	42	10366	11.722	ug/l #	83
31) Cyclohexane	7.03	56	19445	2.278	ug/l #	5
36) 1,1-Dichloropropene	7.03	75	61995	5.683	ug/l #	51
37) Ethyl Acetate	6.06	43	44067	9.640	ug/l #	73
38) Carbon Tetrachloride	7.03	117	86197	5.243	ug/l #	15
41) Methacrylonitrile	6.45	41	7254	1.260	ug/l #	64
52) Toluene	10.50	92	25618	1.657	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.55	75	126483	139.519	ug/l #	1

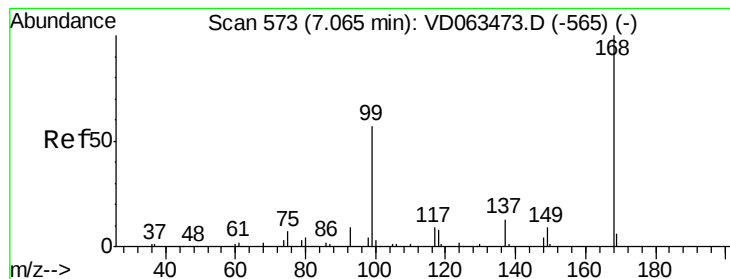
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

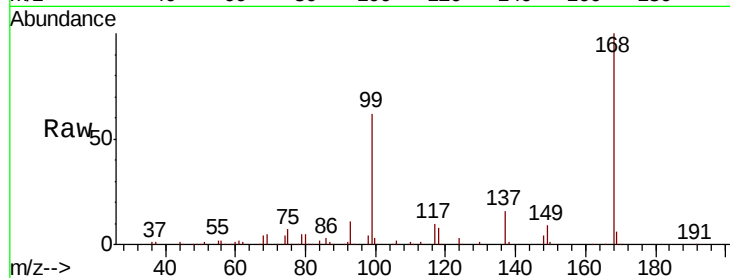
TP-5

Tgt Ion:168 Resp: 884289

Ion Ratio Lower Upper

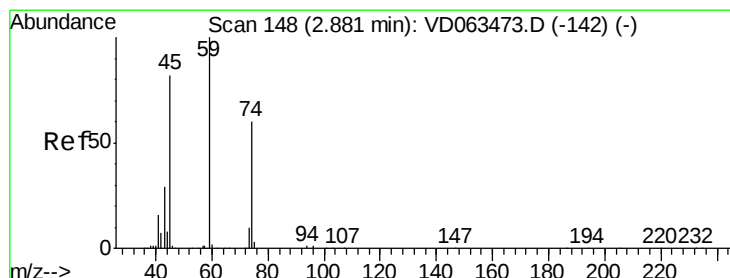
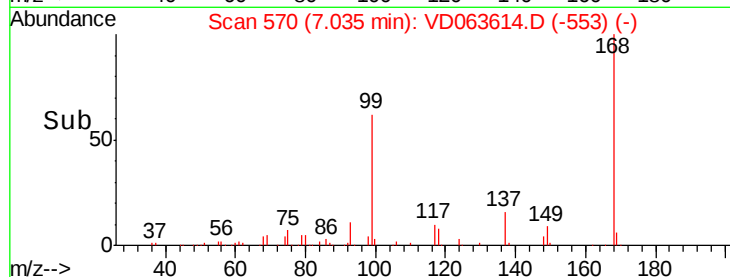
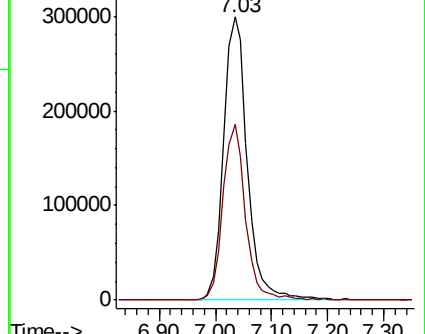
168 100

99 62.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.436 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD063614.D

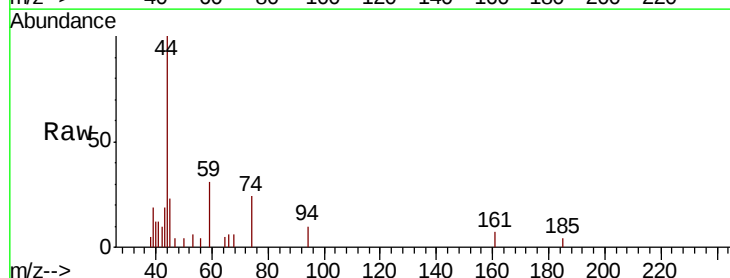
Acq: 15 Aug 2019 19:10

Tgt Ion: 74 Resp: 3300

Ion Ratio Lower Upper

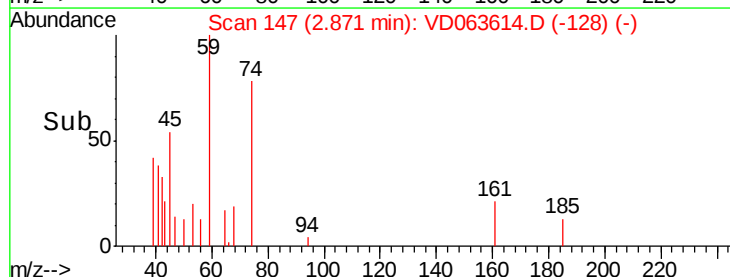
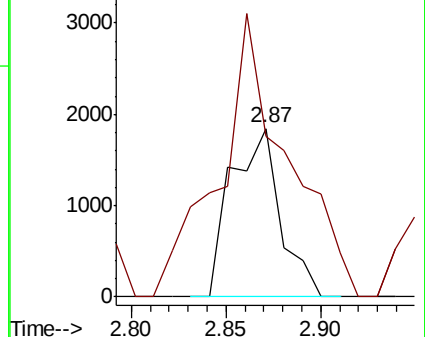
74 100

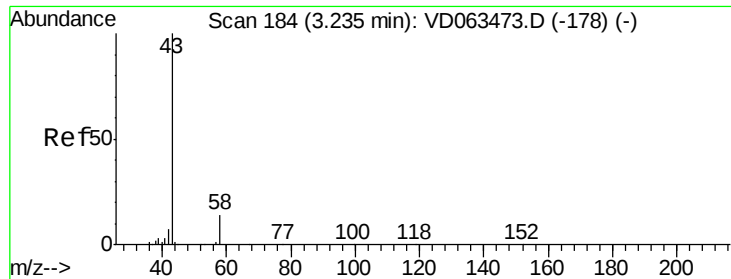
45 95.3 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 91.745 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

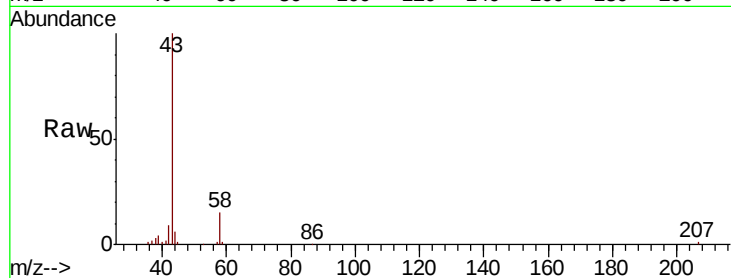
TP-5

Tgt Ion: 43 Resp: 176286

Ion Ratio Lower Upper

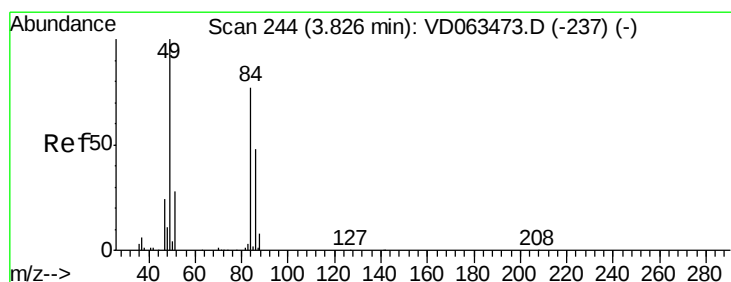
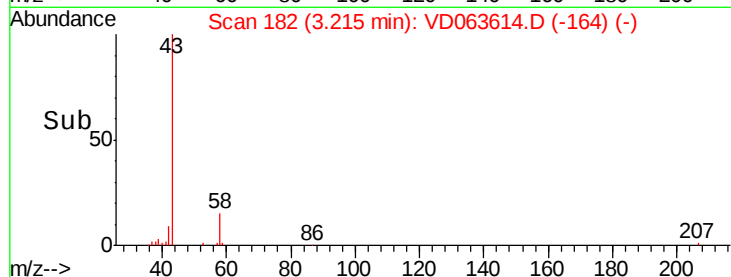
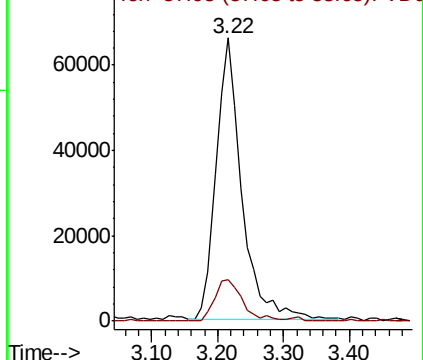
43 100

58 14.8 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: 8.658 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.03 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Tgt Ion: 84 Resp: 71935

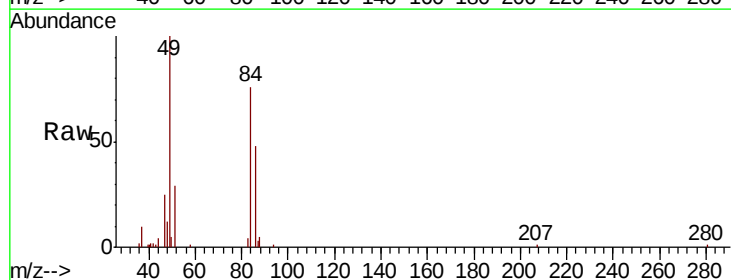
Ion Ratio Lower Upper

84 100

49 131.1 103.4 155.2

51 37.7 28.5 42.7

86 62.8 49.4 74.2

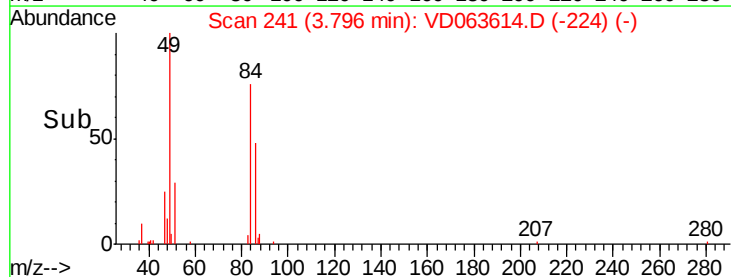
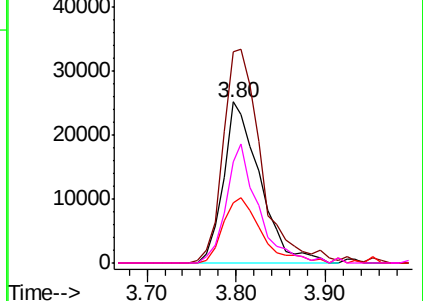


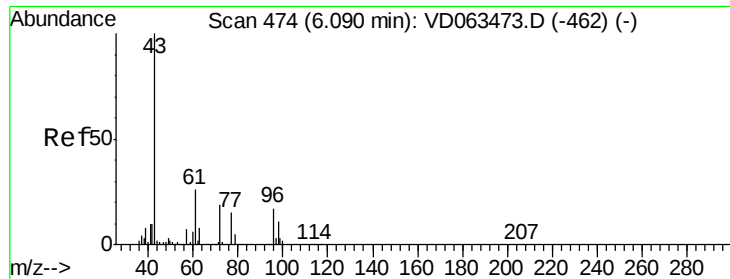
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 23.363 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.03 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

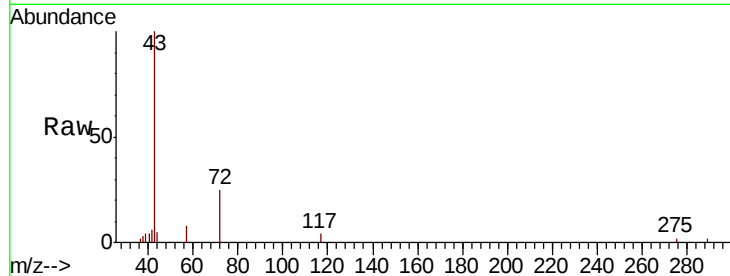
TP-5

Tgt Ion: 43 Resp: 44336

Ion Ratio Lower Upper

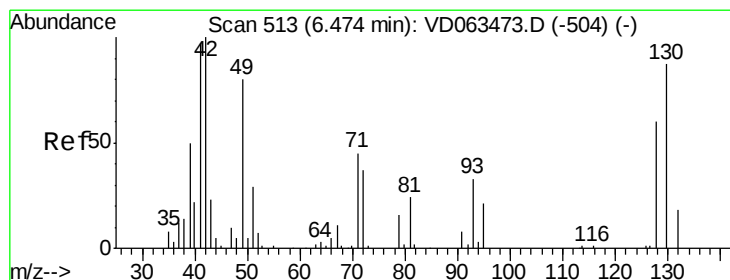
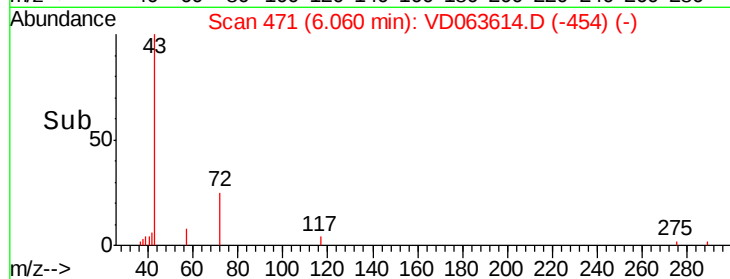
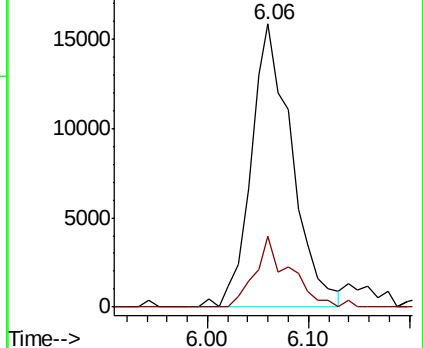
43 100

72 25.3 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: 11.722 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.02 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

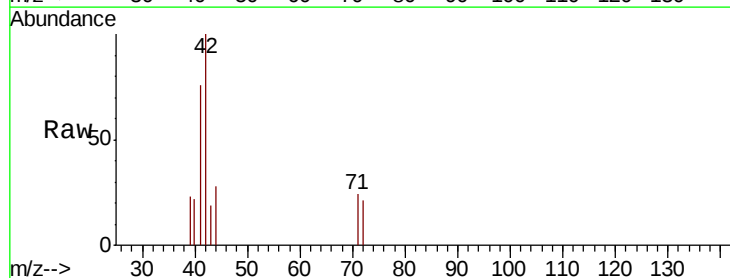
Tgt Ion: 42 Resp: 10366

Ion Ratio Lower Upper

42 100

72 37.4 31.5 47.3

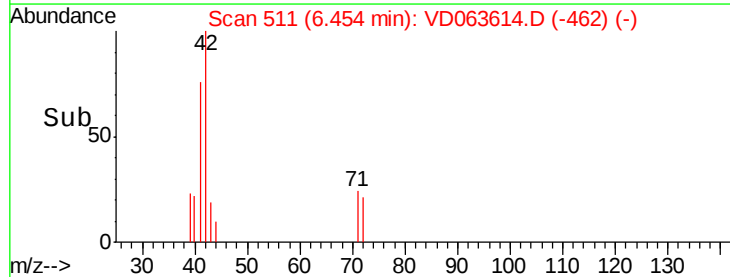
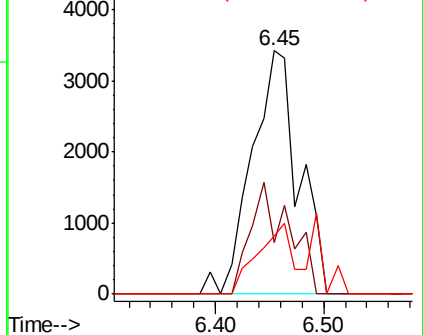
71 22.8 33.8 50.8#

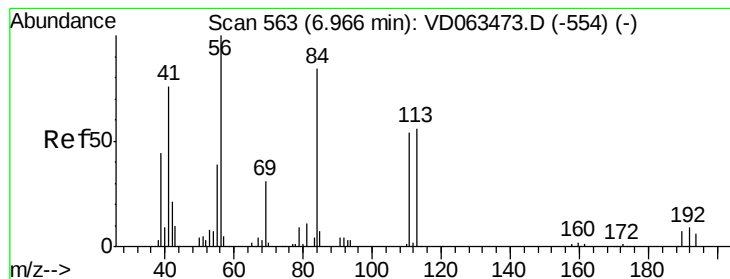


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 2.278 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

TP-5

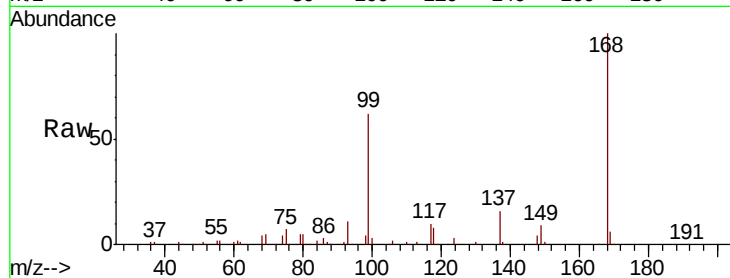
Tgt Ion: 56 Resp: 19445

Ion Ratio Lower Upper

56 100

69 204.3 25.0 37.6#

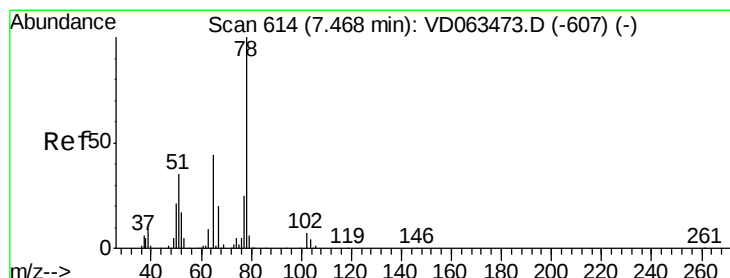
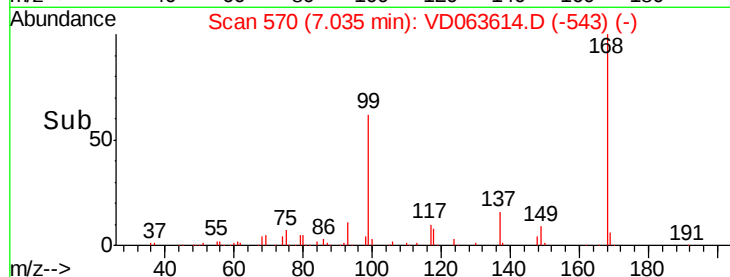
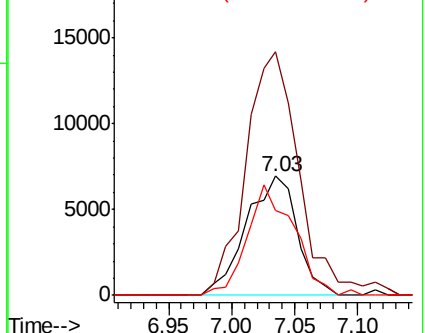
84 71.4 69.7 104.5



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: 44.156 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.03 min

Lab File: VD063614.D

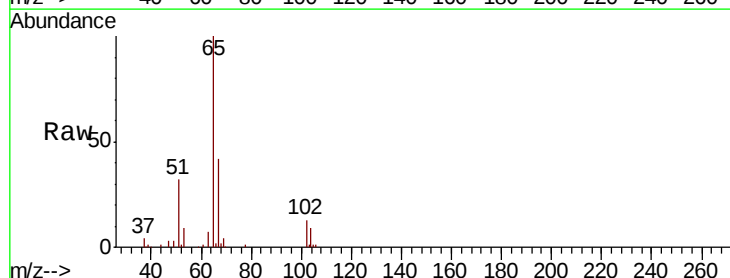
Acq: 15 Aug 2019 19:10

Tgt Ion: 65 Resp: 417376

Ion Ratio Lower Upper

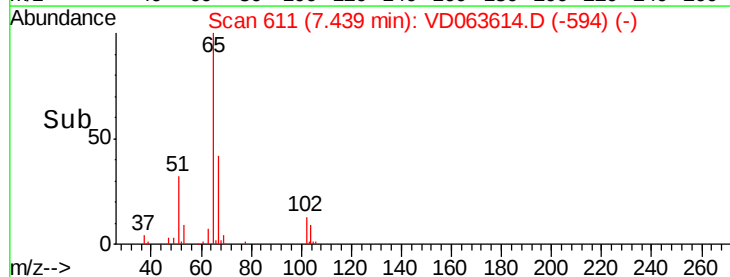
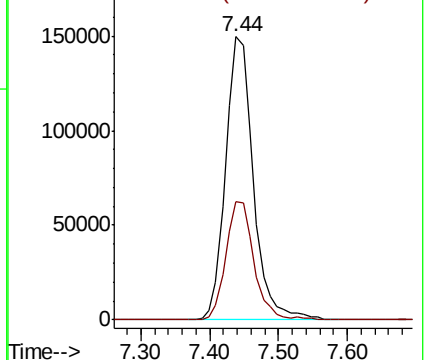
65 100

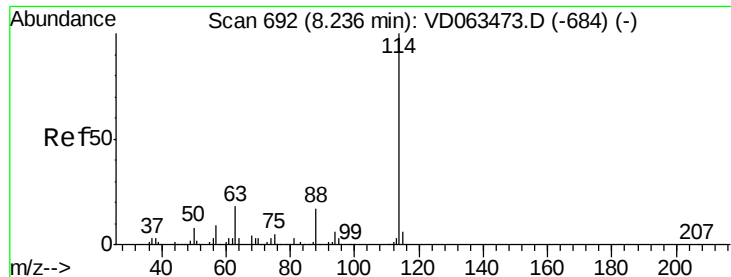
67 41.7 0.0 89.2



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. -0.03 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

TP-5

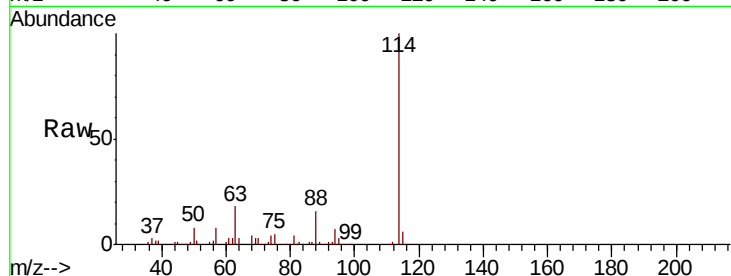
Tgt Ion:114 Resp: 1233999

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.2

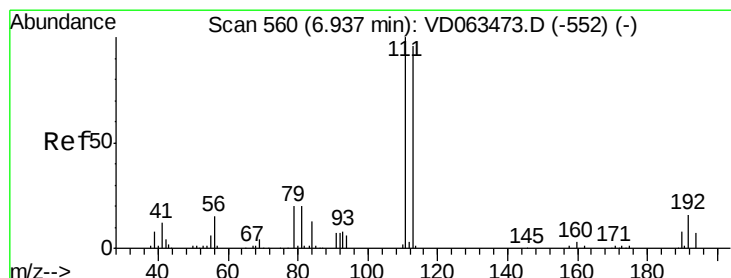
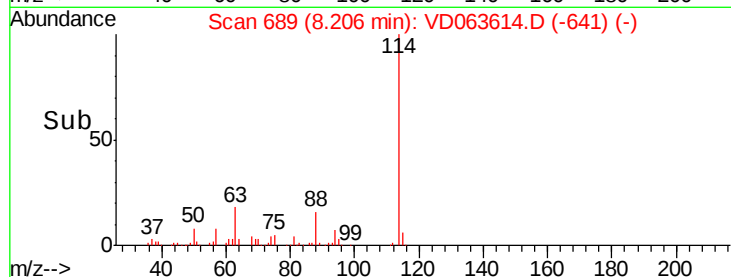
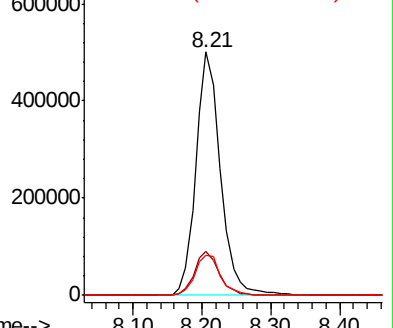
88 16.5 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 45.169 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

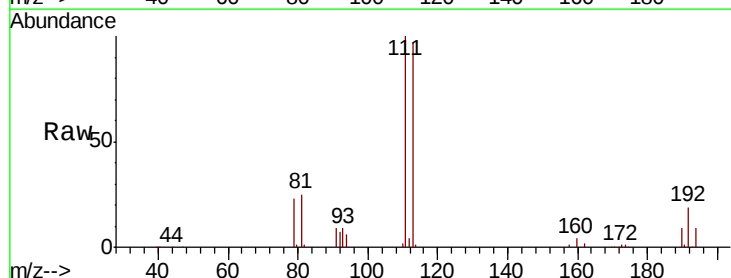
Tgt Ion:113 Resp: 469436

Ion Ratio Lower Upper

113 100

111 102.6 83.1 124.7

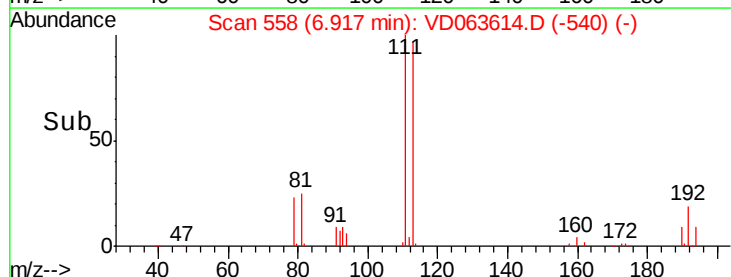
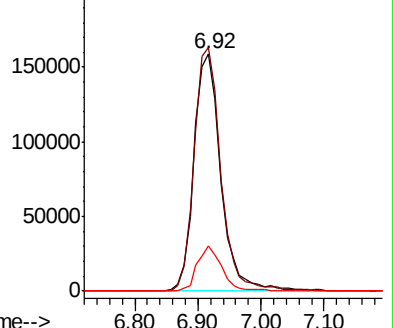
192 19.3 13.1 19.7

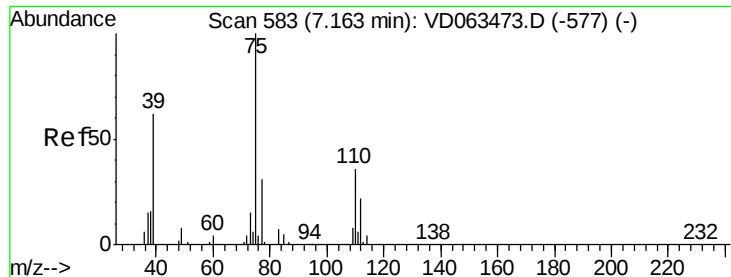


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

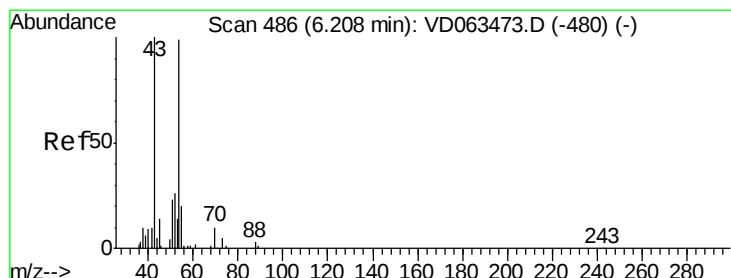
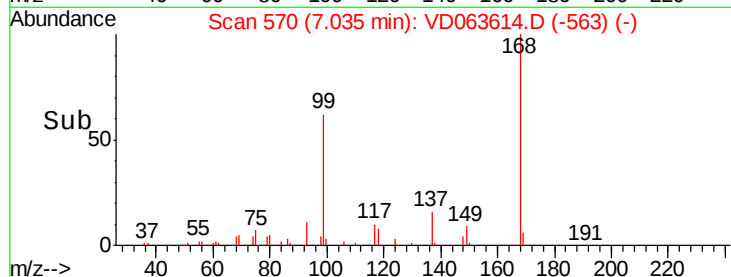
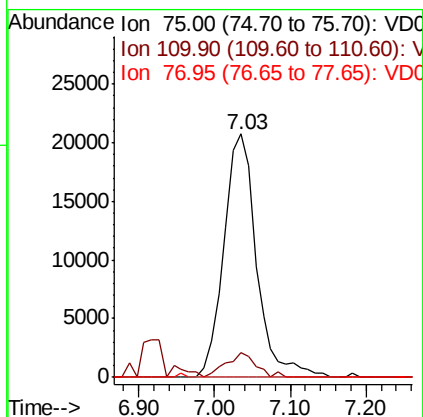
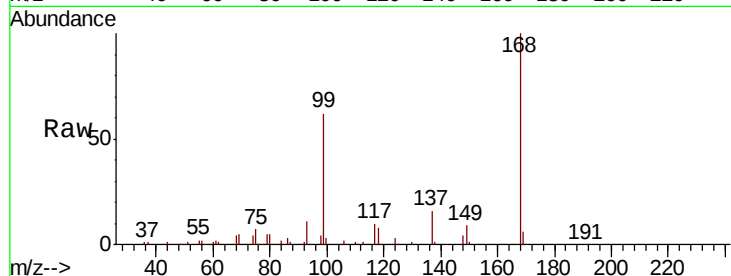




#36
 1,1-Dichloropropene
 Concen: 5.683 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD063614.D
 Acq: 15 Aug 2019 19:10

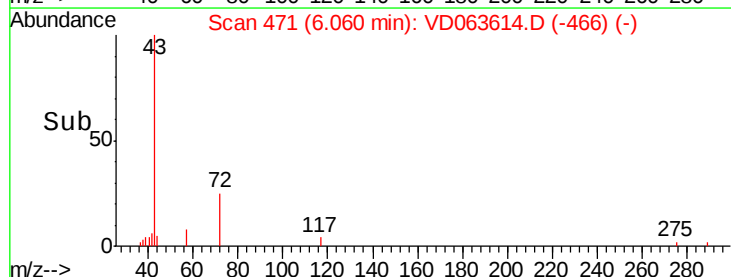
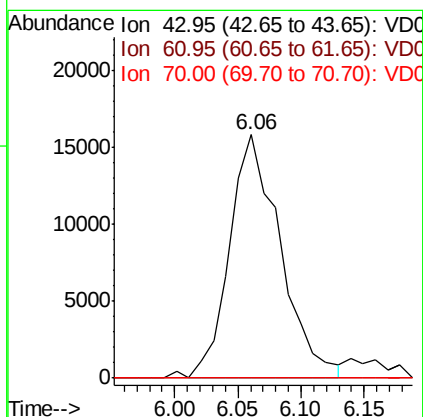
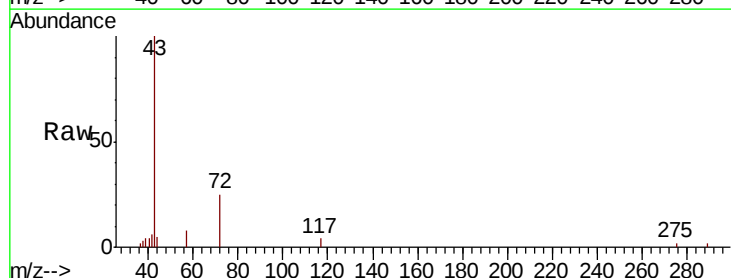
Instrument :
 MSVOA_D
 ClientSampled :
 TP-5

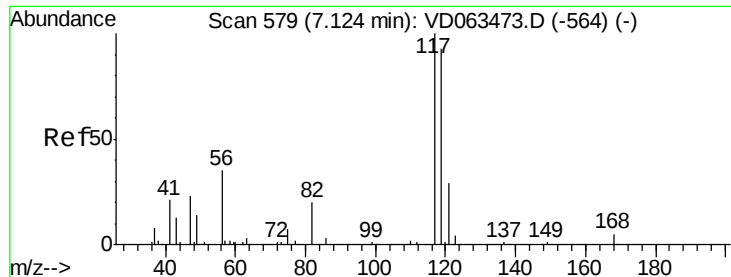
Tgt Ion: 75 Resp: 61995
 Ion Ratio Lower Upper
 75 100
 110 10.3 17.6 52.8#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 9.640 ug/l
 RT: 6.06 min Scan# 471
 Delta R.T. -0.15 min
 Lab File: VD063614.D
 Acq: 15 Aug 2019 19:10

Tgt Ion: 43 Resp: 44067
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.0 13.6#
 70 0.0 6.9 10.3#





#38

Carbon Tetrachloride

Concen: 5.243 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

TP-5

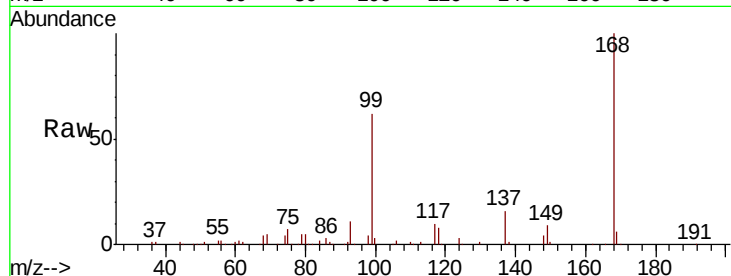
Tgt Ion:117 Resp: 86197

Ion Ratio Lower Upper

117 100

119 2.4 74.2 111.2#

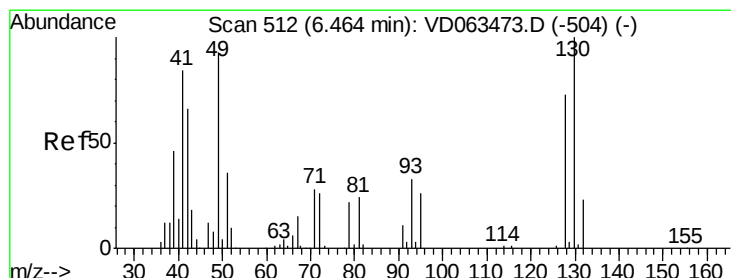
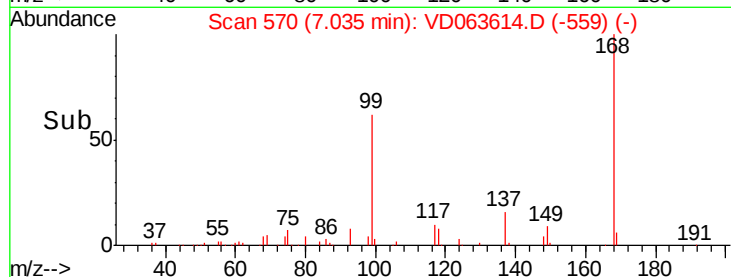
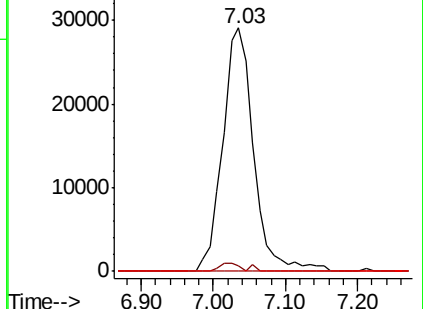
121 0.0 23.1 34.7#



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: 1.260 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Tgt Ion: 41 Resp: 7254

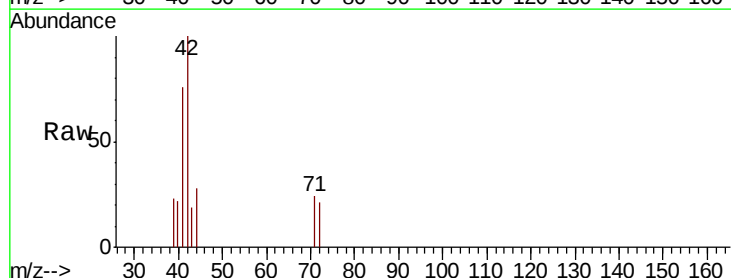
Ion Ratio Lower Upper

41 100

39 30.3 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

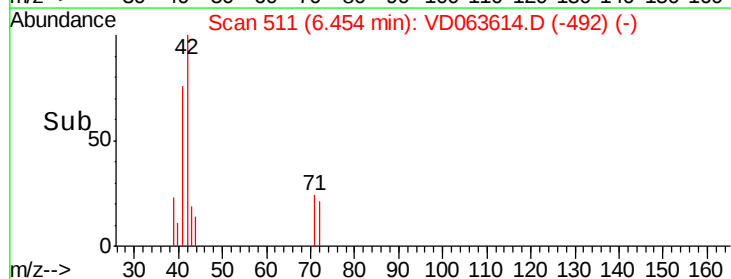
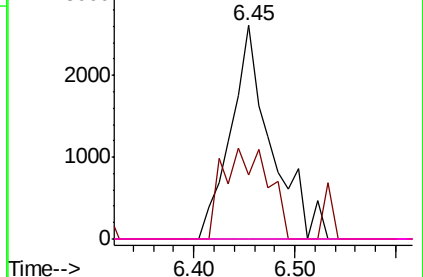


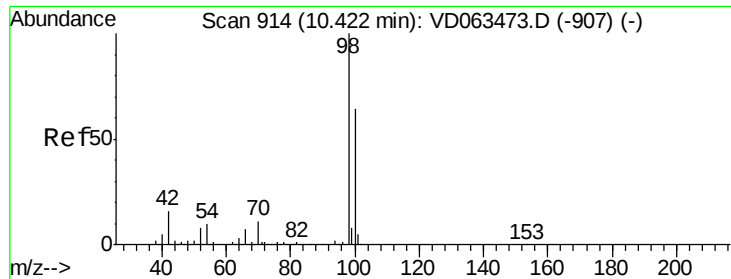
Abundance Ion 40.95 (40.65 to 41.65): VDC

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

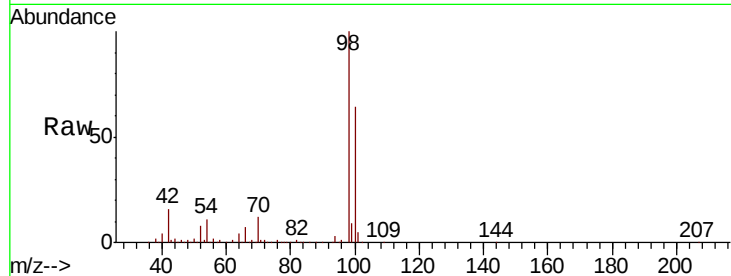




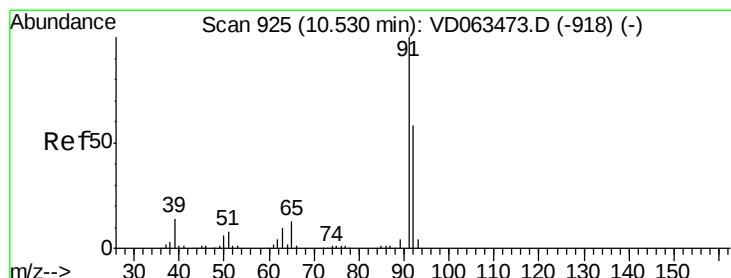
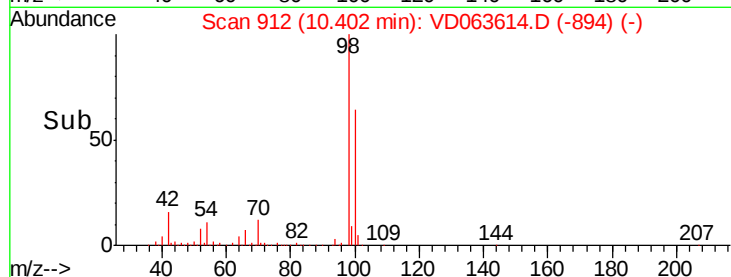
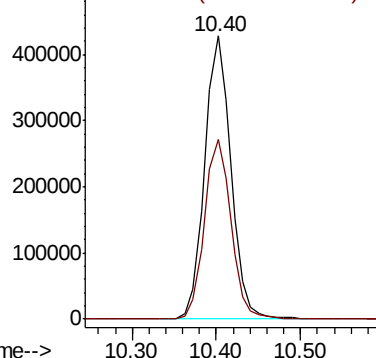
#50
Toluene-d8
Concen: 40.681 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063614.D
Acq: 15 Aug 2019 19:10

Instrument :
MSVOA_D
ClientSampleId :
TP-5

Tgt Ion: 98 Resp: 929532
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5

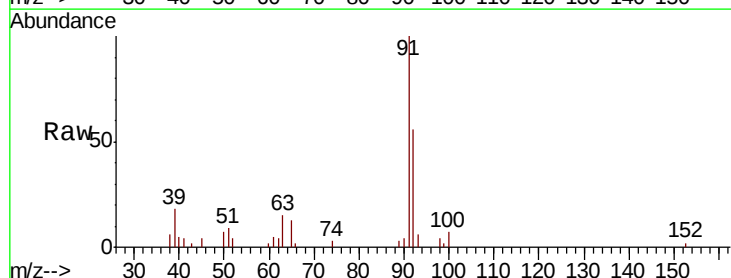


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

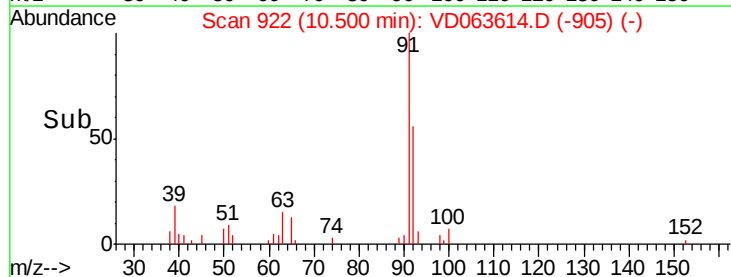
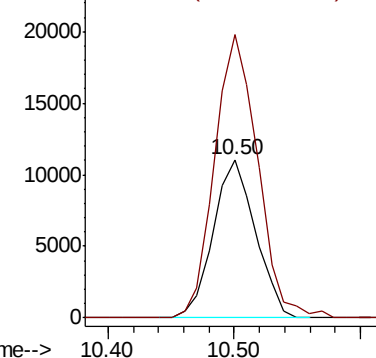


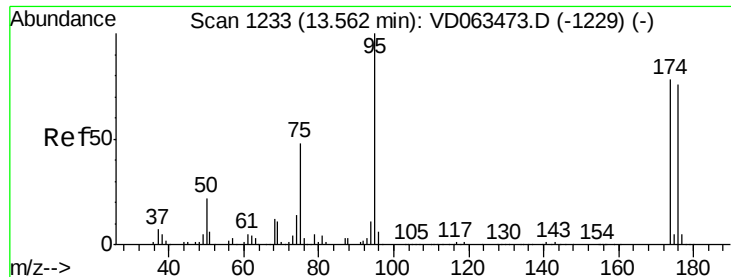
#52
Toluene
Concen: 1.657 ug/l
RT: 10.50 min Scan# 922
Delta R.T. -0.03 min
Lab File: VD063614.D
Acq: 15 Aug 2019 19:10

Tgt Ion: 92 Resp: 25618
Ion Ratio Lower Upper
92 100
91 178.6 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: 26.049 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampled :

TP-5

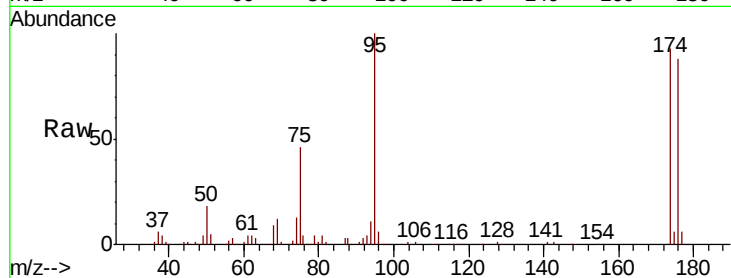
Tgt Ion: 95 Resp: 269768

Ion Ratio Lower Upper

95 100

174 92.6 0.0 155.4

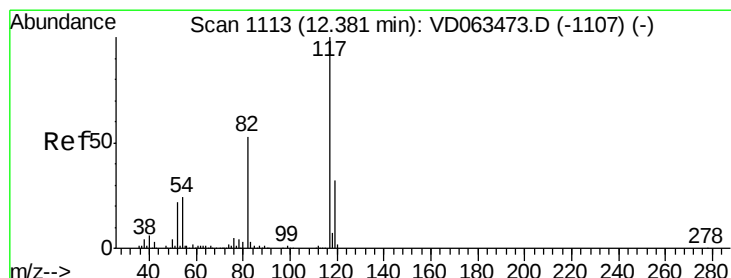
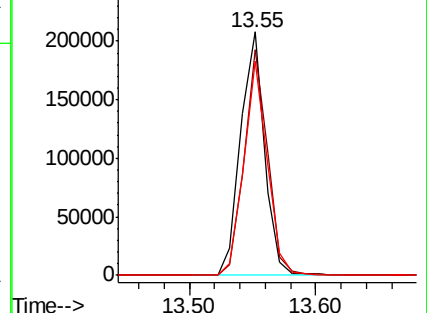
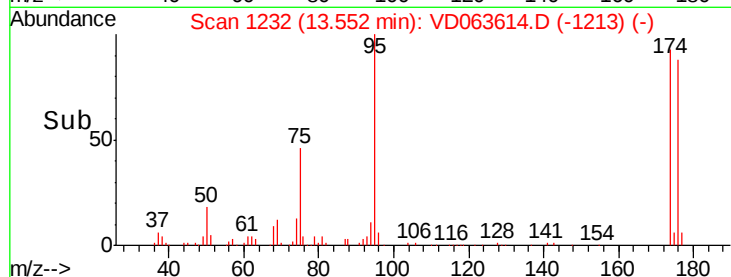
176 88.1 0.0 152.4



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: VD063614.D

Acq: 15 Aug 2019 19:10

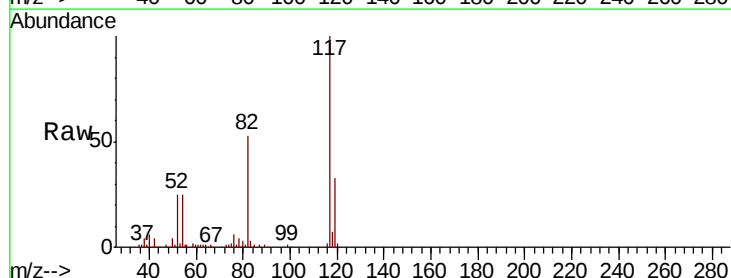
Tgt Ion: 117 Resp: 822318

Ion Ratio Lower Upper

117 100

82 53.1 42.0 63.0

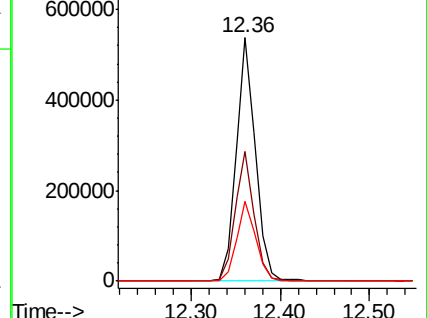
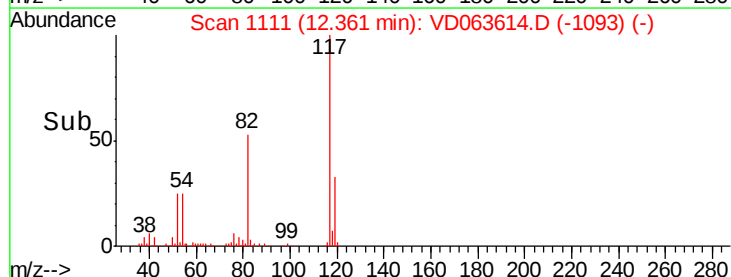
119 32.8 25.4 38.0

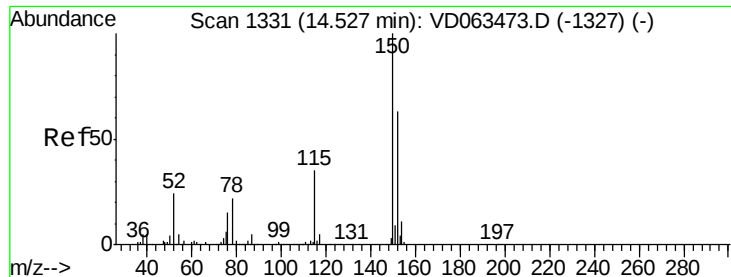


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

TP-5

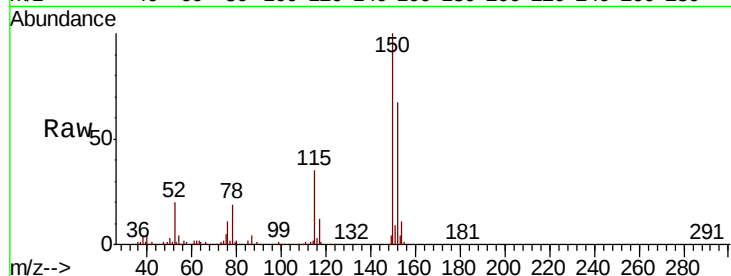
Tgt Ion:152 Resp: 293898

Ion Ratio Lower Upper

152 100

115 52.3 30.9 92.7

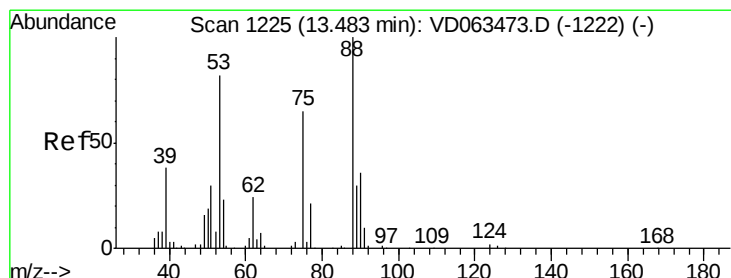
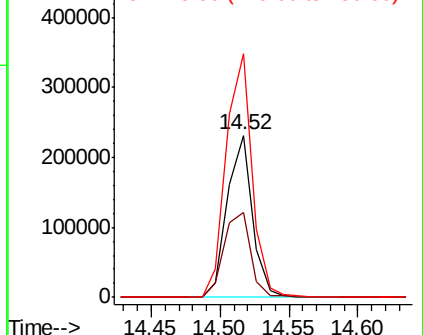
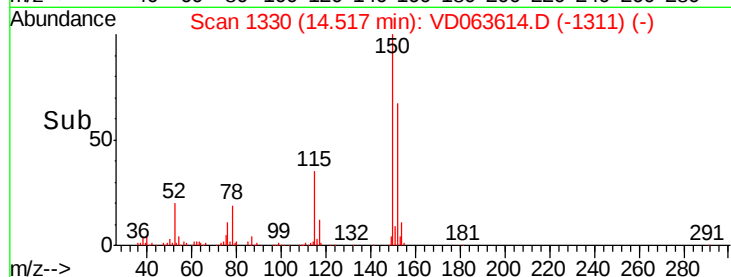
150 150.2 0.0 318.6



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: 139.519 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063614.D

Acq: 15 Aug 2019 19:10

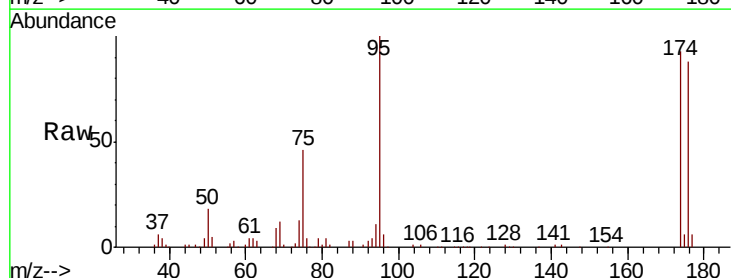
Tgt Ion: 75 Resp: 126483

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

