

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081519\
 Data File : VD063610.D
 Acq On : 15 Aug 2019 17:21
 Operator : JC/SY
 Sample : K4356-01
 Misc : 4.50g/5ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-1

Quant Time: Aug 16 01:05:47 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	7.04	168	583155	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	788510	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	364611	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	81908	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	321127	51.52	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	103.04%	
35) Dibromofluoromethane	6.91	113	335964	50.59	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	101.18%	
50) Toluene-d8	10.41	98	477148	32.68	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	65.36%	
62) 4-Bromofluorobenzene	13.55	95	119648	18.08	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	36.16%	

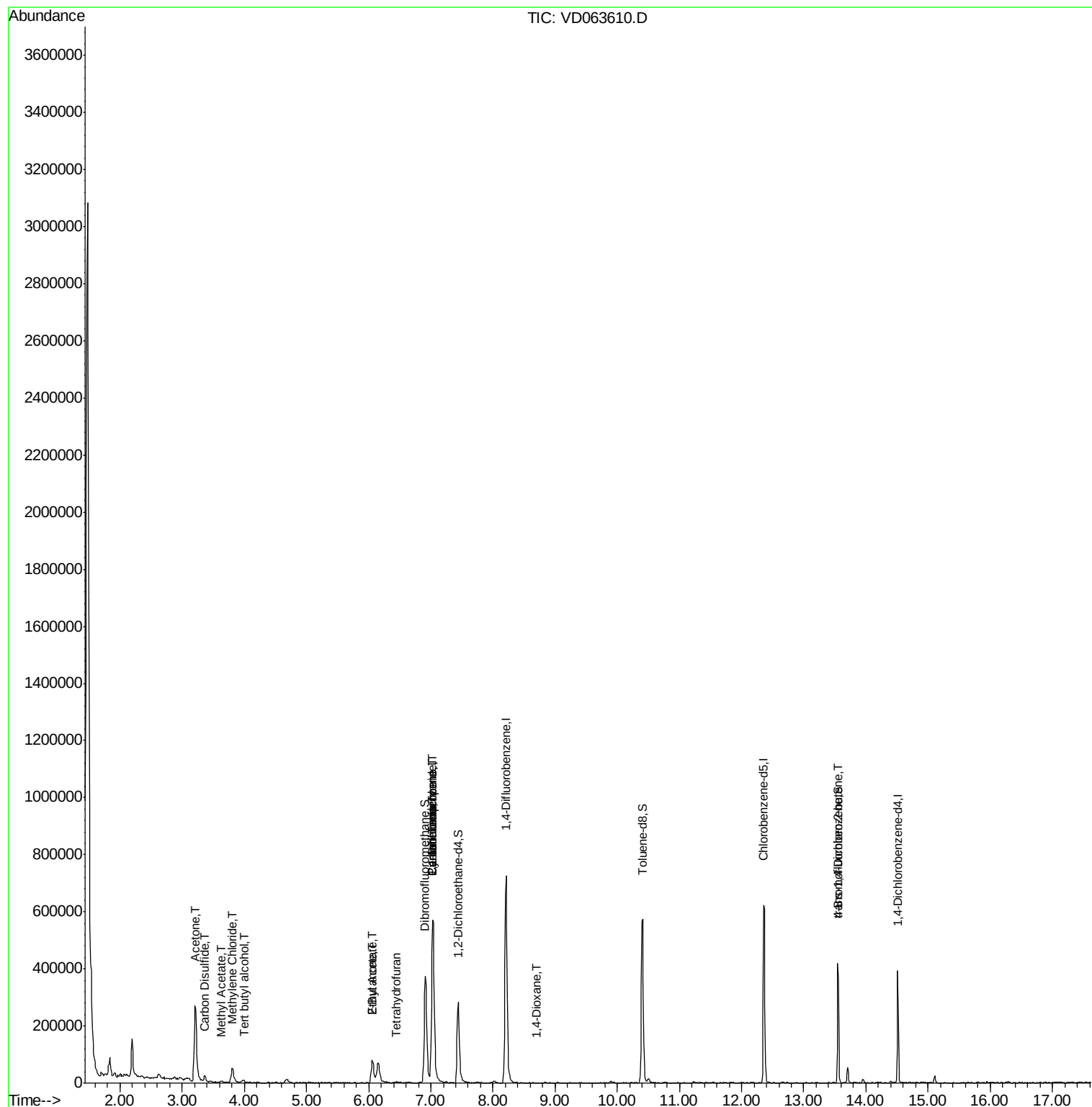
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.99	59	7536	27.772	ug/l #	71
16) Acetone	3.21	43	526334	415.370	ug/l	94
17) Carbon Disulfide	3.37	76	35910	2.415	ug/l	95
18) Methyl Acetate	3.63	43	11121	4.633	ug/l #	85
20) Methylene Chloride	3.81	84	31687	5.783	ug/l #	82
25) 2-Butanone	6.05	43	163642	130.759	ug/l	95
29) Tetrahydrofuran	6.45	42	2102	3.605	ug/l #	45
31) Cyclohexane	7.03	56	11915	2.117	ug/l #	27
36) 1,1-Dichloropropene	7.03	75	43949	6.305	ug/l #	49
37) Ethyl Acetate	6.05	43	157646	53.972	ug/l #	73
38) Carbon Tetrachloride	7.03	117	54152	5.155	ug/l #	15
49) 1,4-Dioxane	8.70	88	186	32.397	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	58888	233.076	ug/l #	1

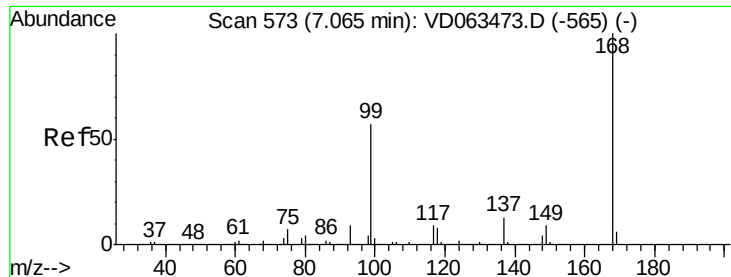
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

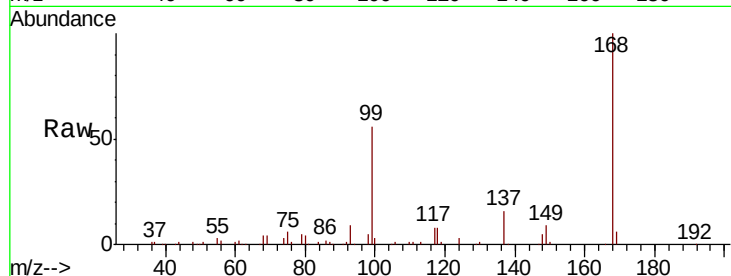
TP-1

Tgt Ion:168 Resp: 583155

Ion Ratio Lower Upper

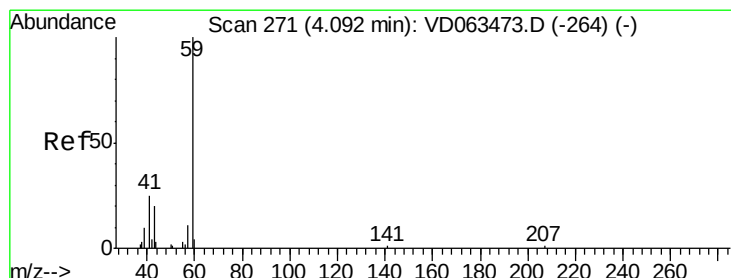
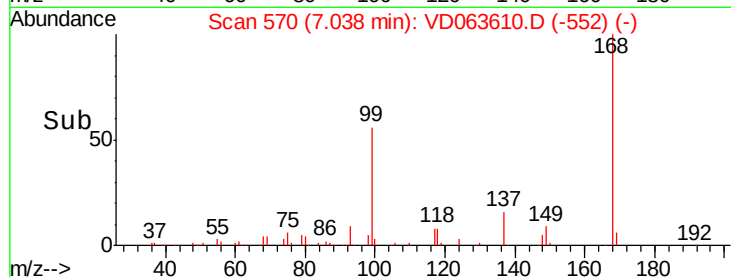
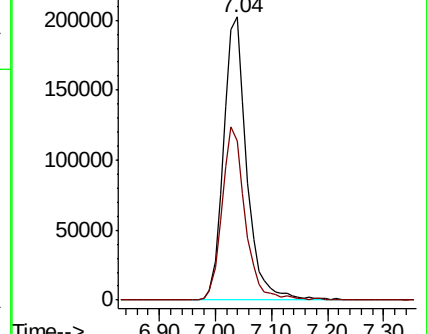
168 100

99 56.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 27.772 ug/l

RT: 3.99 min Scan# 260

Delta R.T. -0.11 min

Lab File: VD063610.D

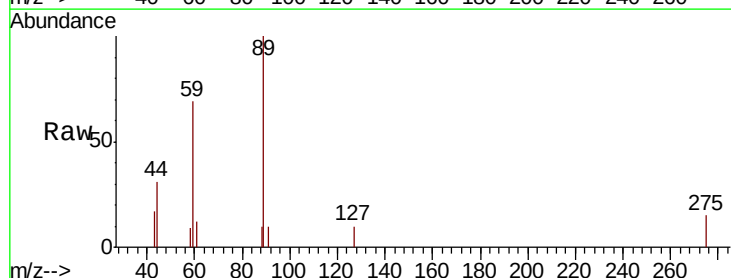
Acq: 15 Aug 2019 17:21

Tgt Ion: 59 Resp: 7536

Ion Ratio Lower Upper

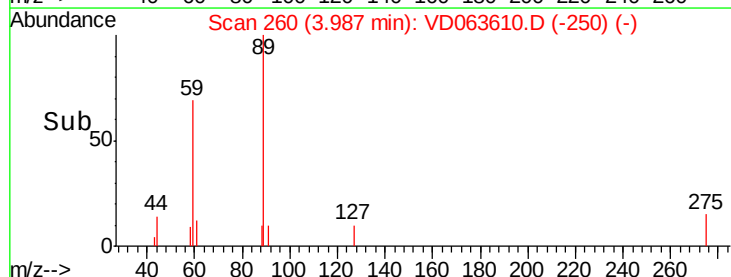
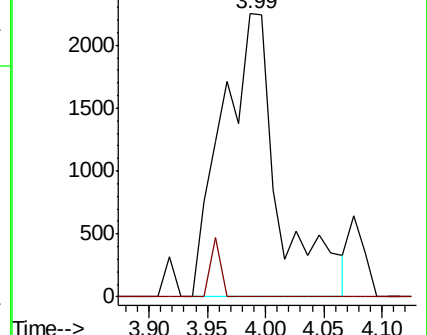
59 100

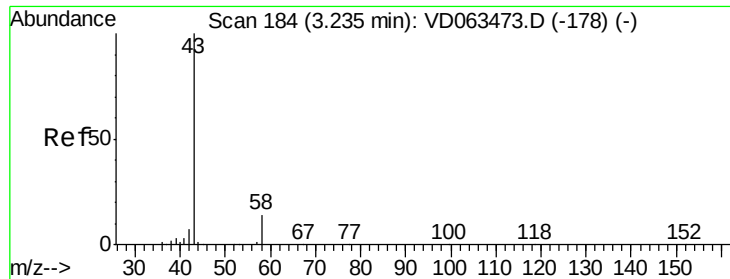
57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 415.370 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampled :

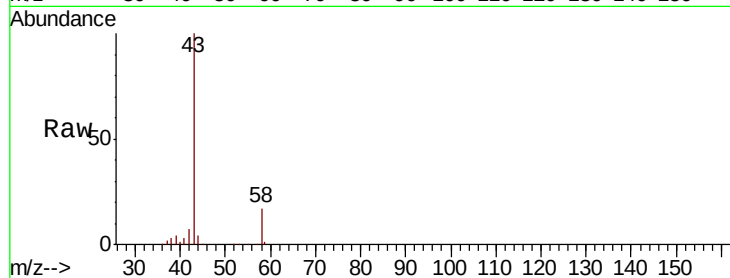
TP-1

Tgt Ion: 43 Resp: 526334

Ion Ratio Lower Upper

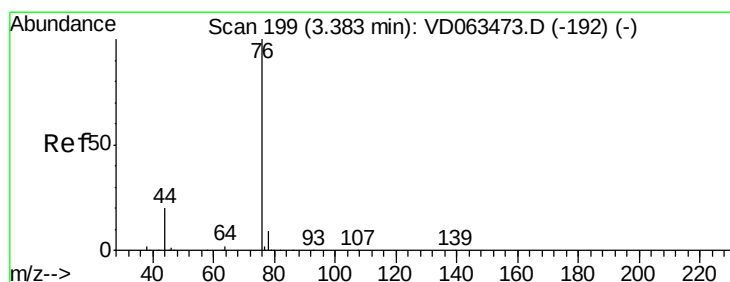
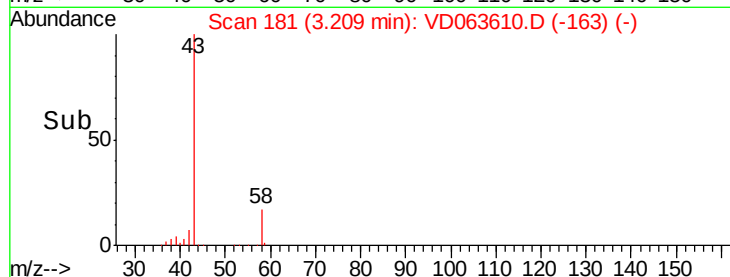
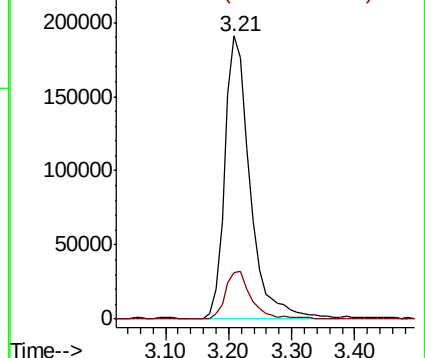
43 100

58 16.7 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 2.415 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD063610.D

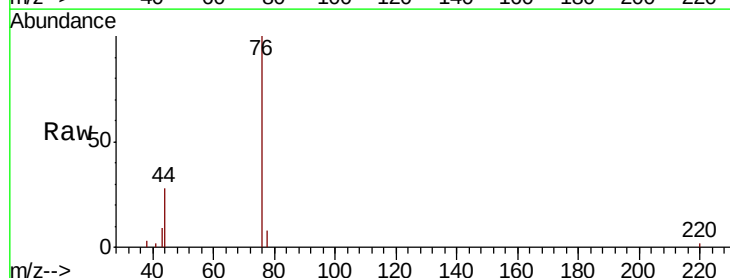
Acq: 15 Aug 2019 17:21

Tgt Ion: 76 Resp: 35910

Ion Ratio Lower Upper

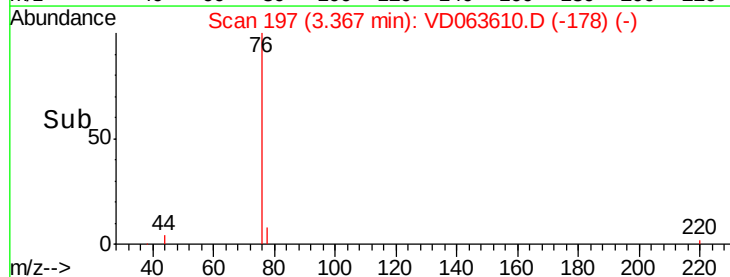
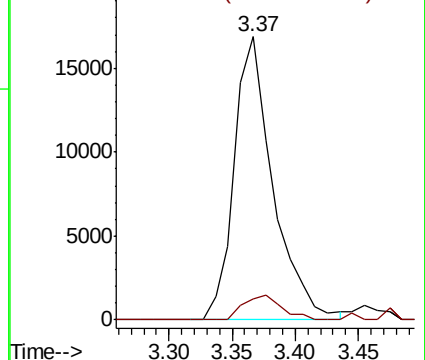
76 100

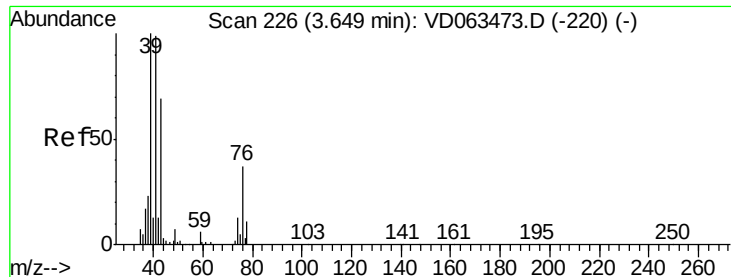
78 7.5 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

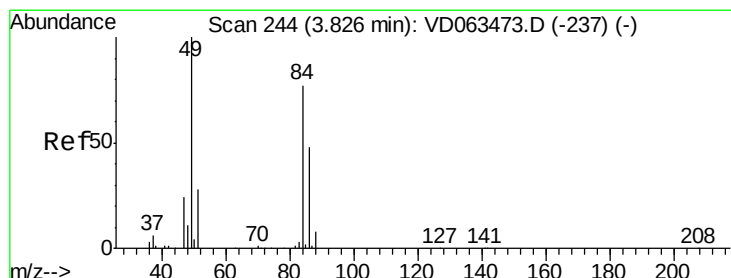
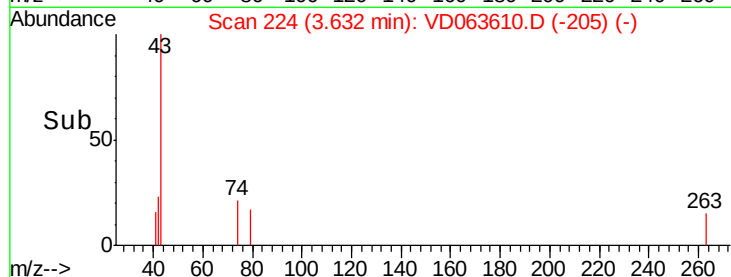
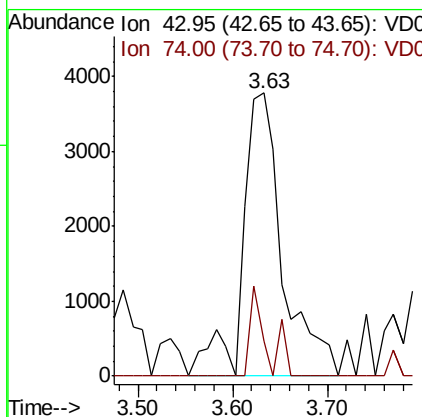
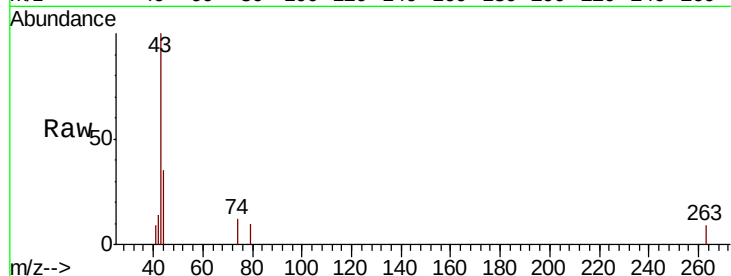




#18
Methyl Acetate
Concen: 4.633 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.02 min
Lab File: VD063610.D
Acq: 15 Aug 2019 17:21

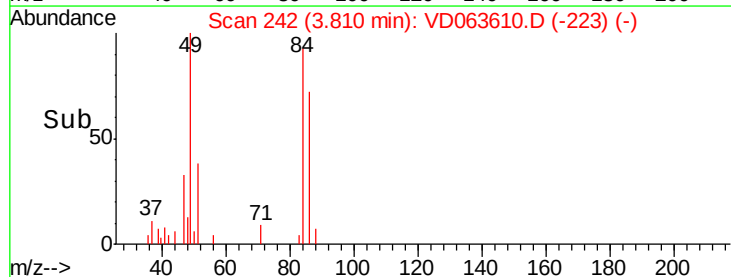
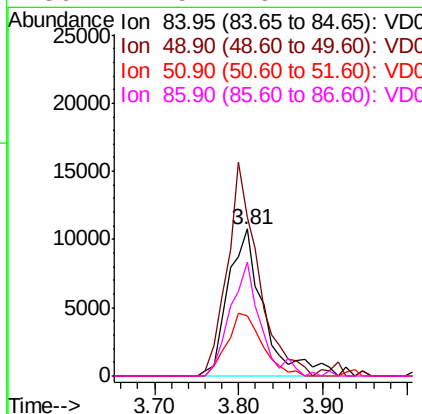
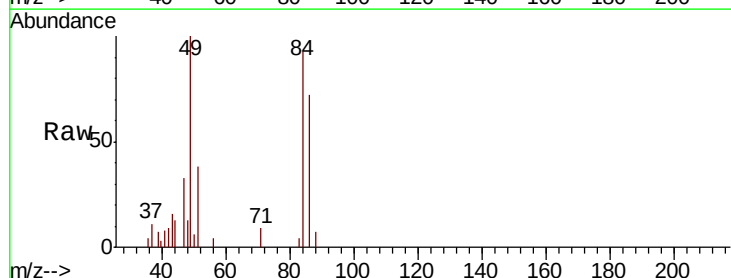
Instrument :
MSVOA_D
ClientSampleId :
TP-1

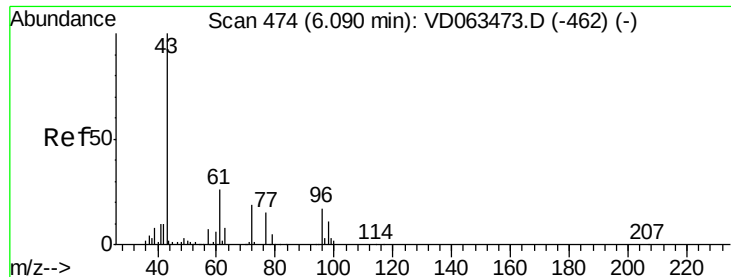
Tgt Ion: 43 Resp: 11121
Ion Ratio Lower Upper
43 100
74 12.5 15.4 23.2#



#20
Methylene Chloride
Concen: 5.783 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD063610.D
Acq: 15 Aug 2019 17:21

Tgt Ion: 84 Resp: 31687
Ion Ratio Lower Upper
84 100
49 107.9 103.4 155.2
51 41.3 28.5 42.7
86 77.5 49.4 74.2#





#25

2-Butanone

Concen: 130.759 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.04 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

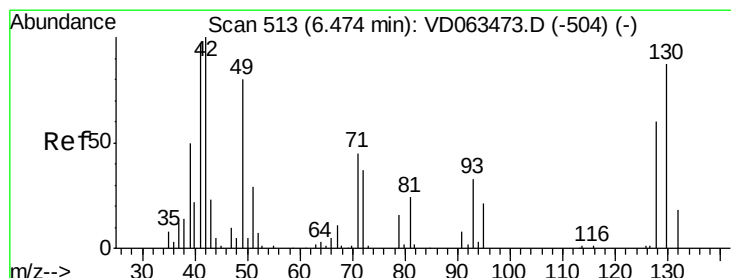
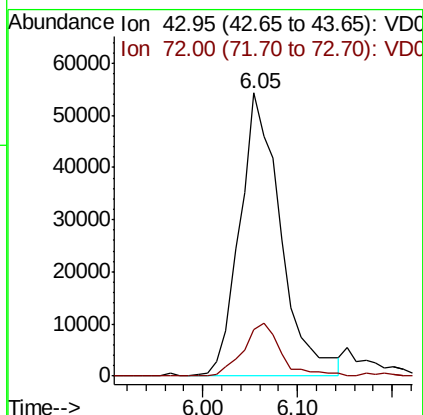
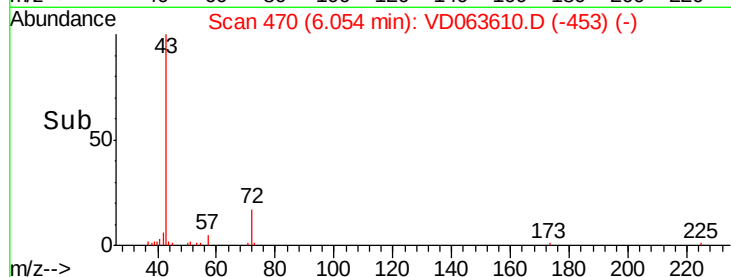
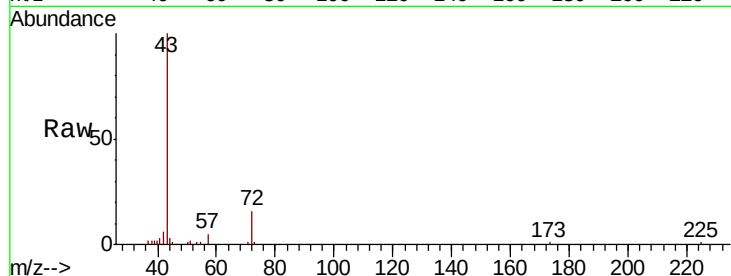
TP-1

Tgt Ion: 43 Resp: 163642

Ion Ratio Lower Upper

43 100

72 16.5 15.1 22.7



#29

Tetrahydrofuran

Concen: 3.605 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

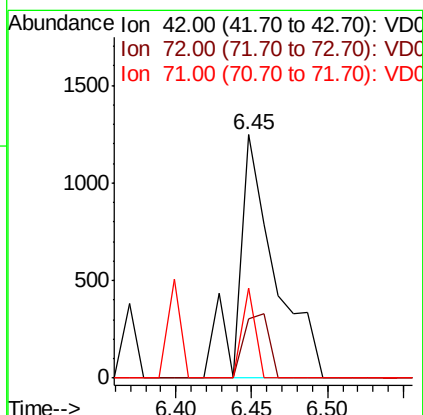
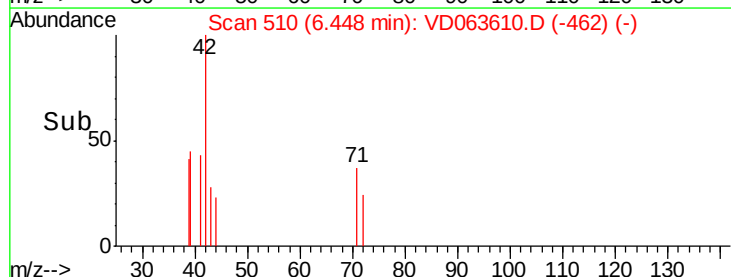
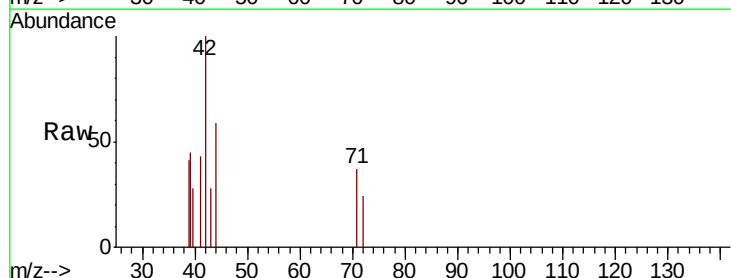
Tgt Ion: 42 Resp: 2102

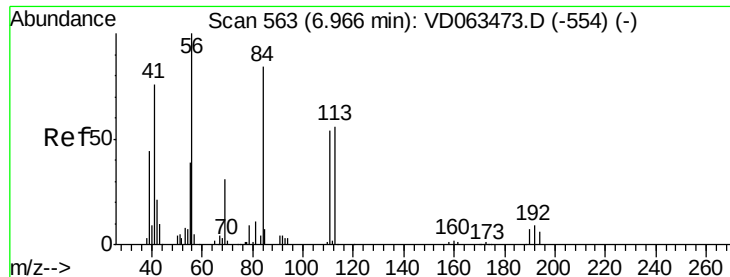
Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

71 13.0 33.8 50.8#

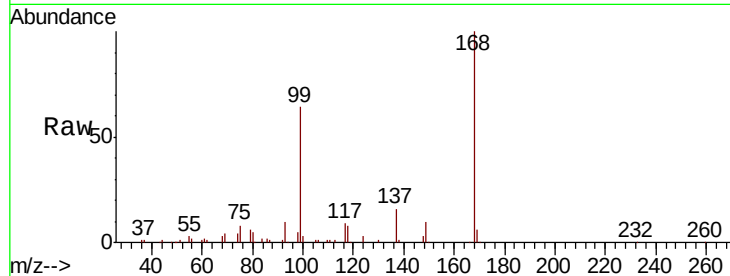




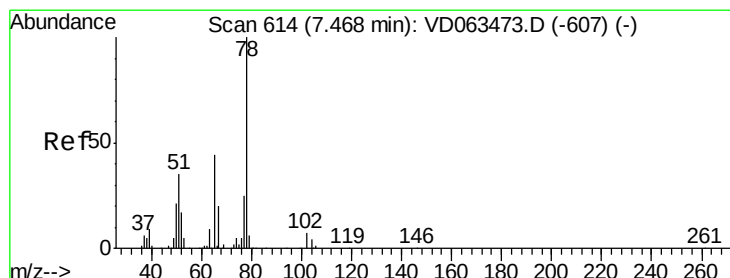
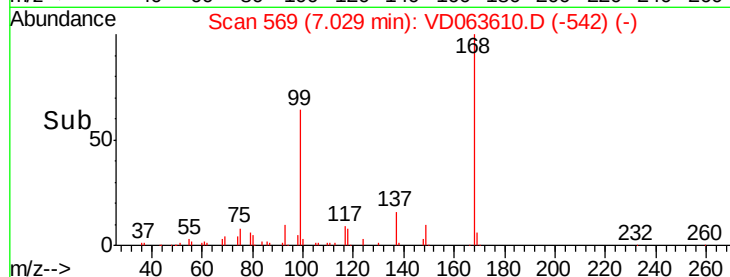
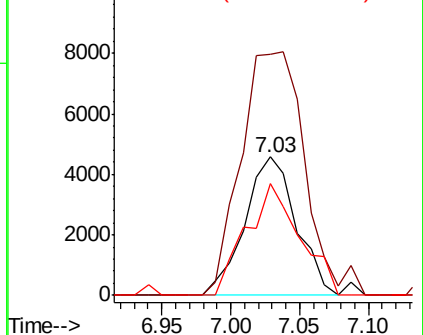
#31
Cyclohexane
Concen: 2.117 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.06 min
Lab File: VD063610.D
Acq: 15 Aug 2019 17:21

Instrument :
MSVOA_D
ClientSampled :
TP-1

Tgt Ion: 56 Resp: 11915
Ion Ratio Lower Upper
56 100
69 174.1 25.0 37.6#
84 81.0 69.7 104.5

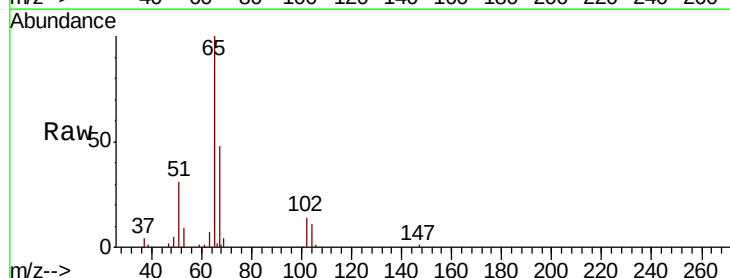


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

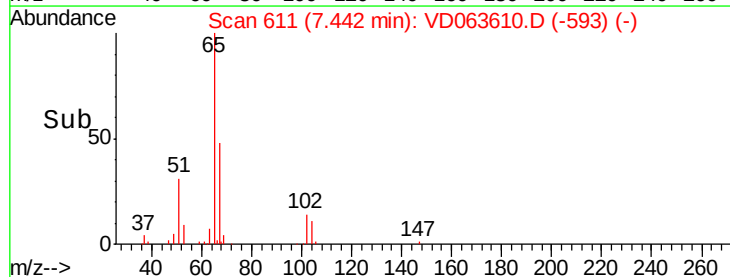
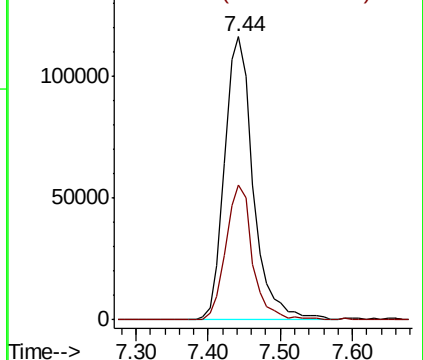


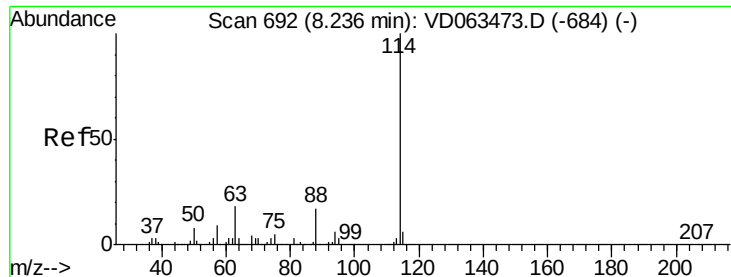
#33
1,2-Dichloroethane-d4
Concen: 51.517 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.03 min
Lab File: VD063610.D
Acq: 15 Aug 2019 17:21

Tgt Ion: 65 Resp: 321127
Ion Ratio Lower Upper
65 100
67 47.9 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: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

TP-1

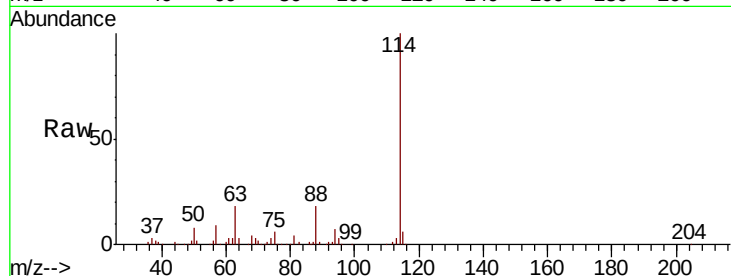
Tgt Ion:114 Resp: 788510

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.2

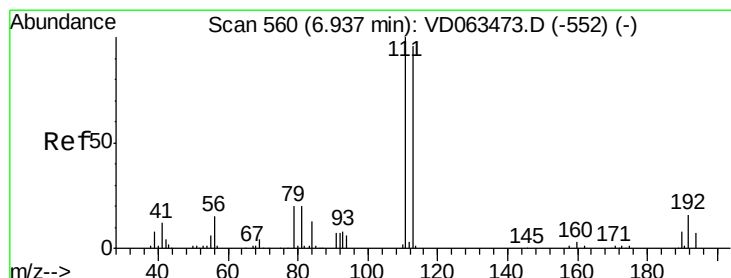
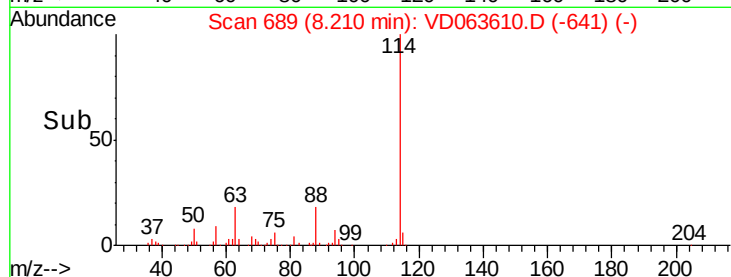
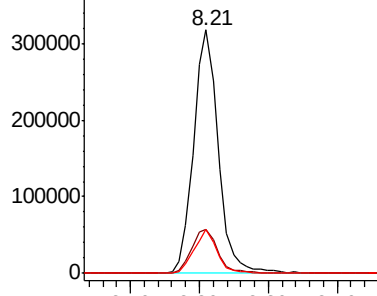
88 18.1 0.0 35.0



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: 50.590 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

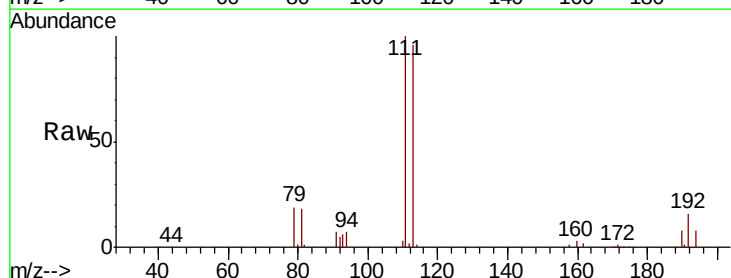
Tgt Ion:113 Resp: 335964

Ion Ratio Lower Upper

113 100

111 104.6 83.1 124.7

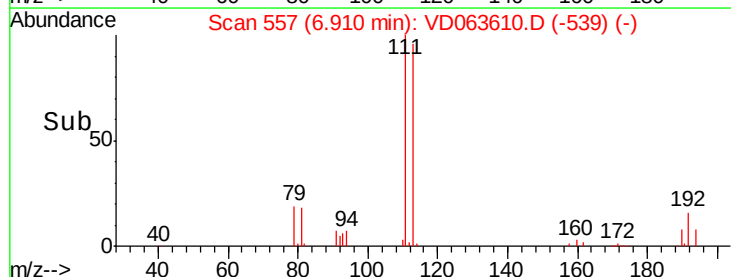
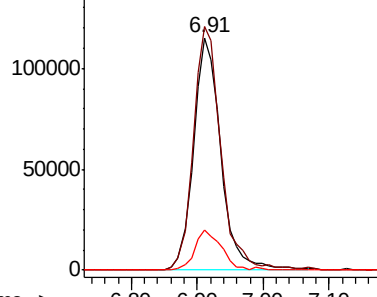
192 17.2 13.1 19.7

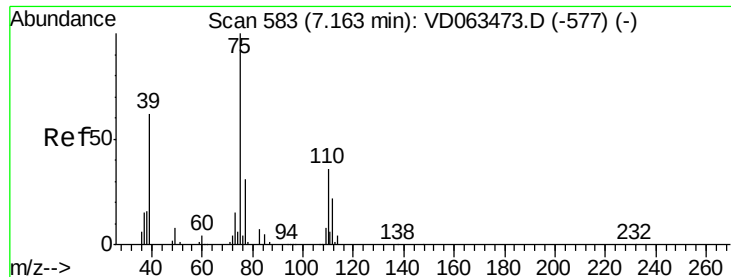


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.305 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.13 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampled :

TP-1

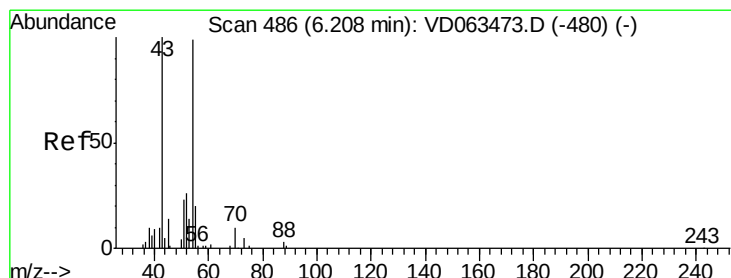
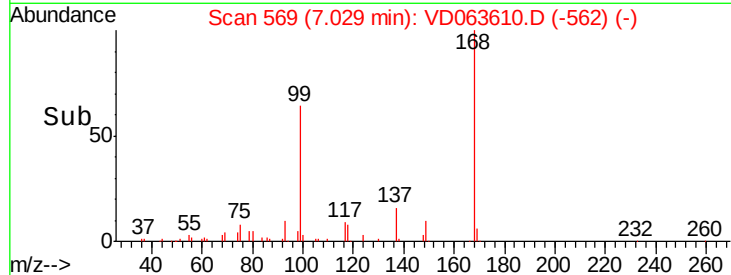
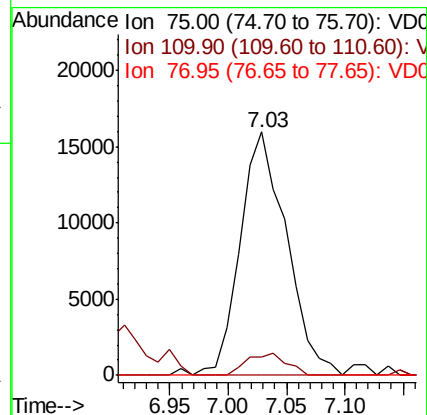
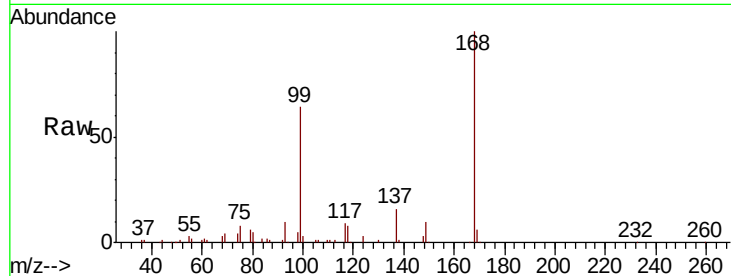
Tgt Ion: 75 Resp: 43949

Ion Ratio Lower Upper

75 100

110 7.4 17.6 52.8#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 53.972 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.15 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

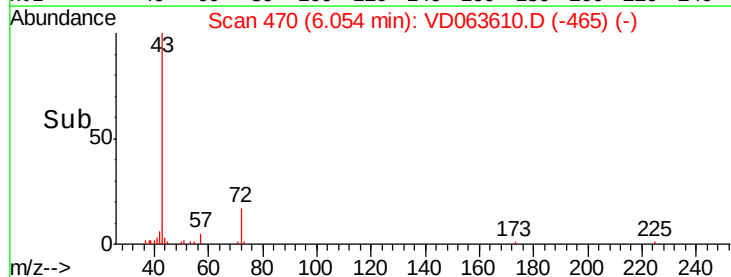
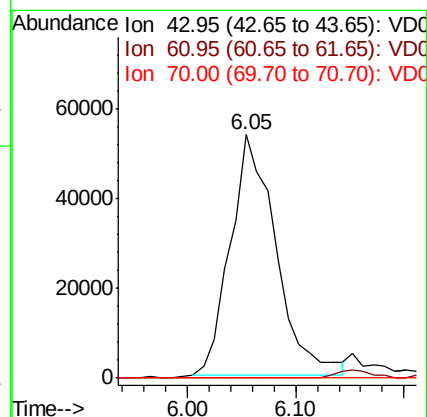
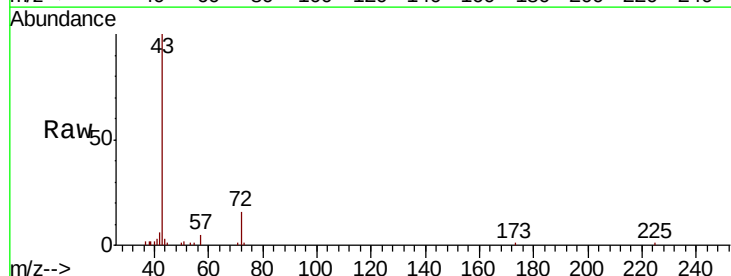
Tgt Ion: 43 Resp: 157646

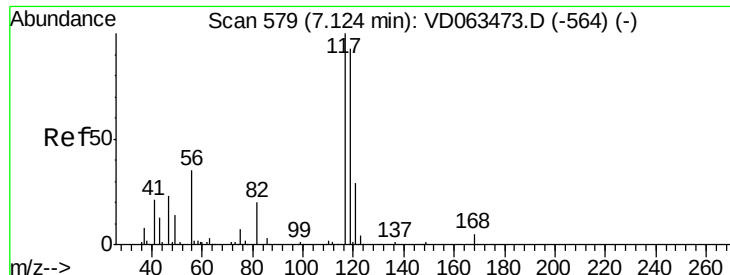
Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.6#

70 0.0 6.9 10.3#





#38

Carbon Tetrachloride

Concen: 5.155 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

TP-1

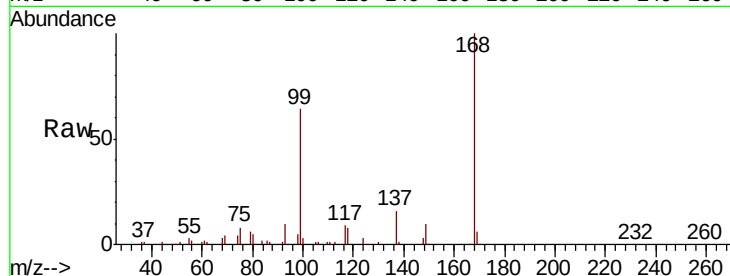
Tgt Ion:117 Resp: 54152

Ion Ratio Lower Upper

117 100

119 2.7 74.2 111.2#

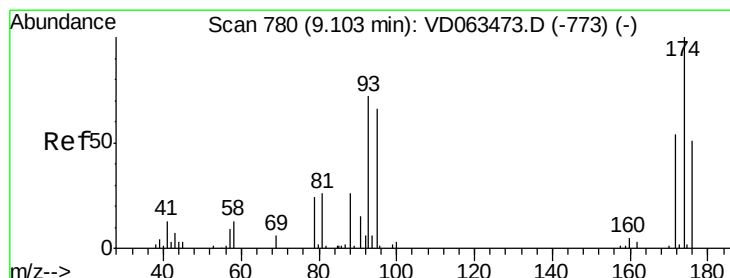
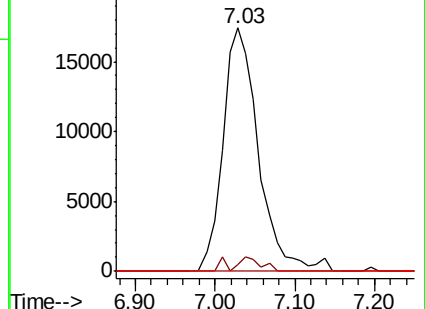
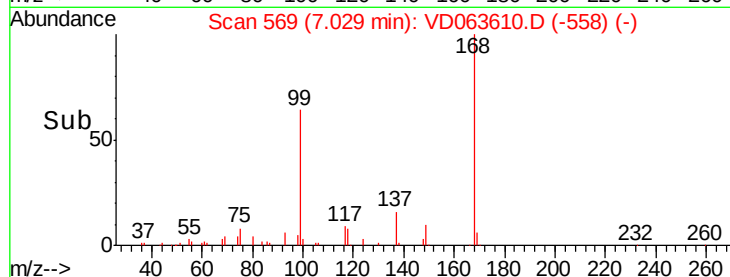
121 0.0 23.1 34.7#



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



#49

1,4-Dioxane

Concen: 32.397 ug/l

RT: 8.70 min Scan# 739

Delta R.T. -0.40 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

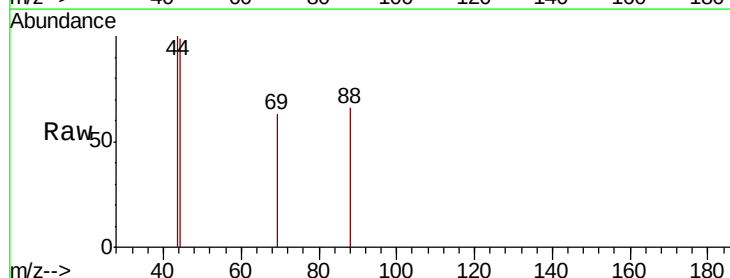
Tgt Ion: 88 Resp: 186

Ion Ratio Lower Upper

88 100

43 151.4 22.9 34.3#

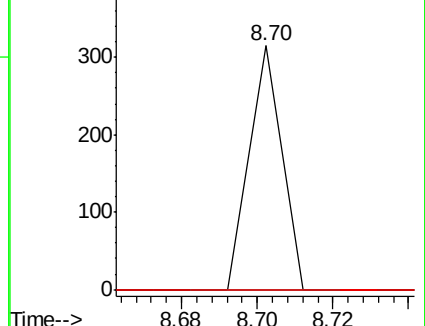
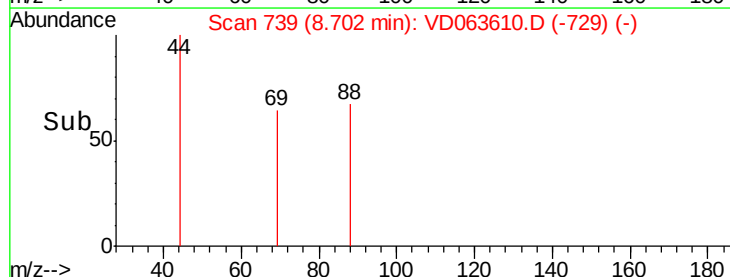
58 0.0 40.1 60.1#

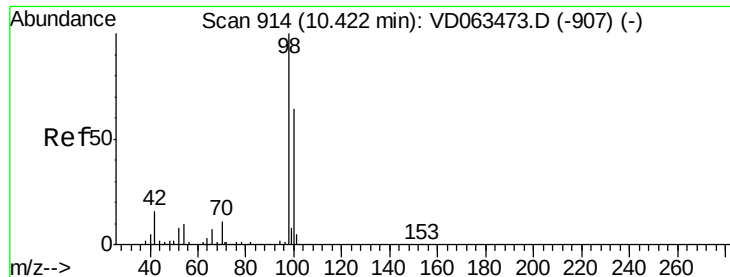


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 32.681 ug/l

RT: 10.41 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

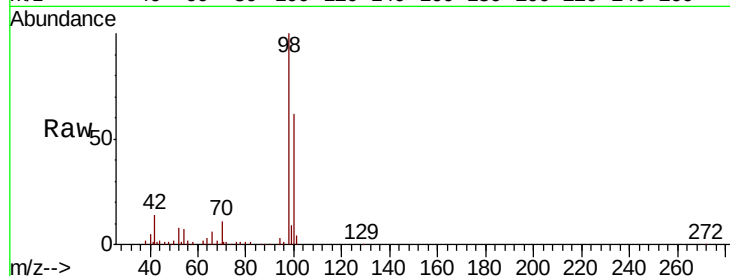
TP-1

Tgt Ion: 98 Resp: 477148

Ion Ratio Lower Upper

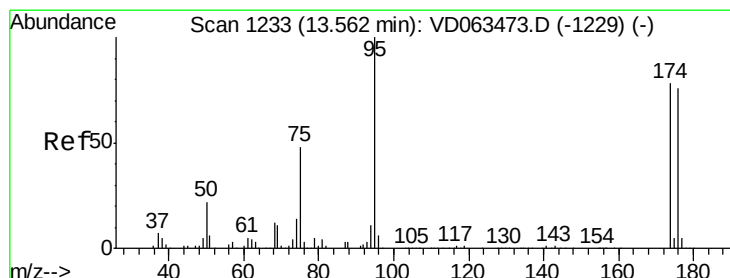
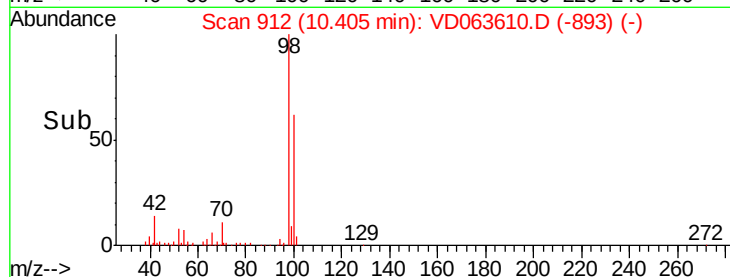
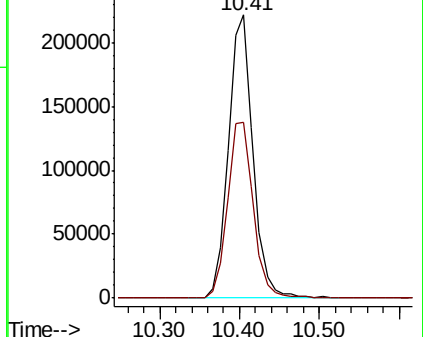
98 100

100 62.2 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: 18.081 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

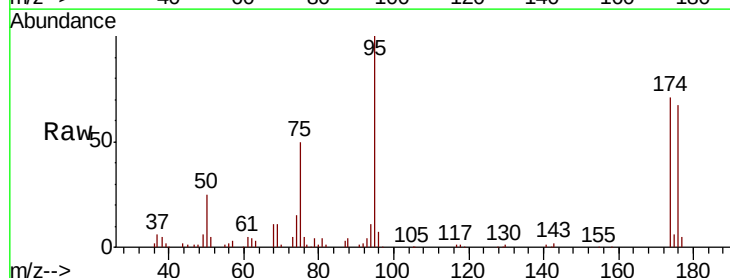
Tgt Ion: 95 Resp: 119648

Ion Ratio Lower Upper

95 100

174 71.1 0.0 155.4

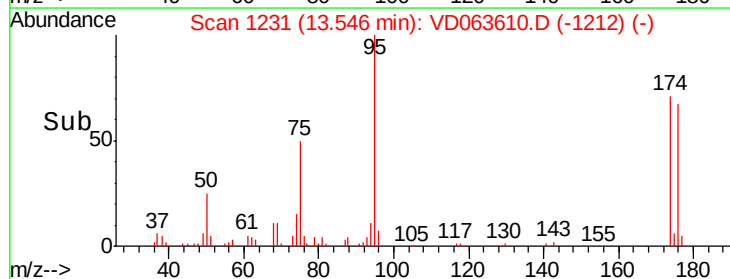
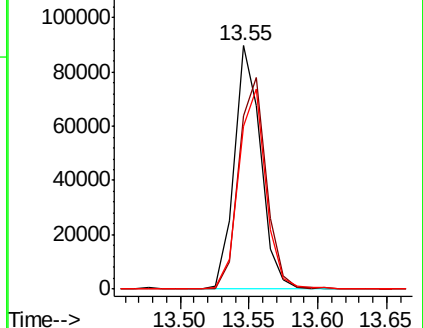
176 66.8 0.0 152.4

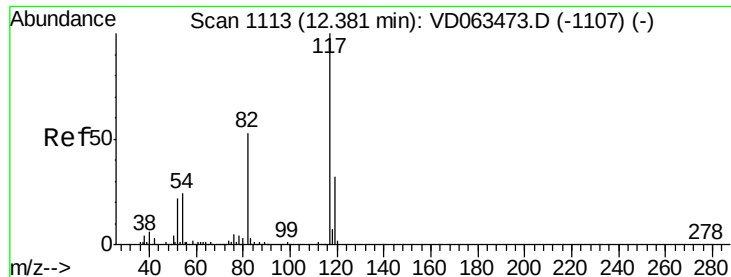


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

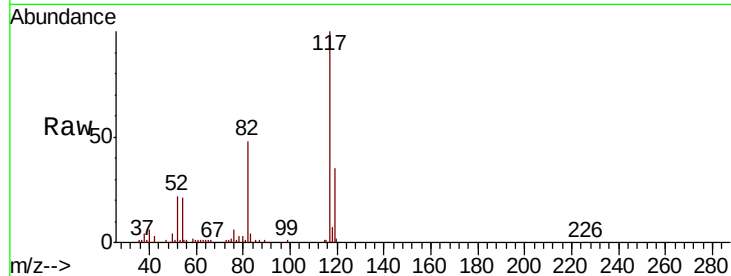




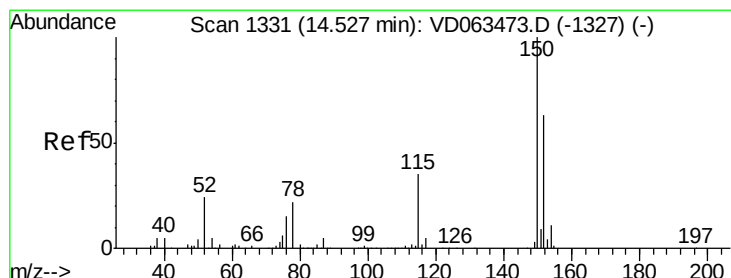
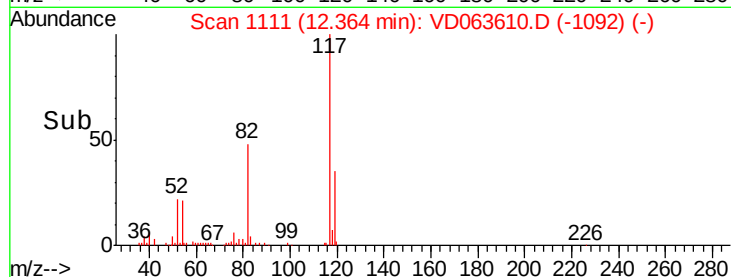
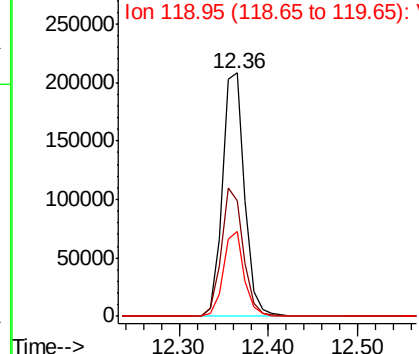
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063610.D
Acq: 15 Aug 2019 17:21

Instrument :
MSVOA_D
ClientSampled :
TP-1

Tgt Ion:117 Resp: 364611
Ion Ratio Lower Upper
117 100
82 47.7 42.0 63.0
119 34.6 25.4 38.0

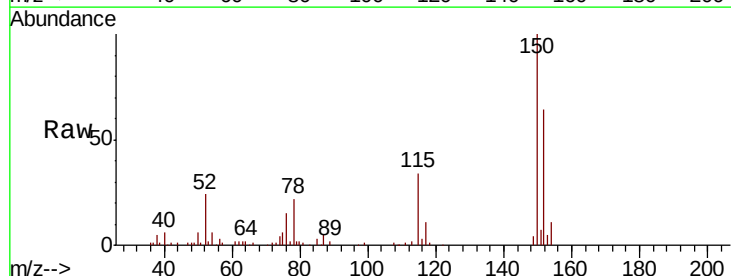


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

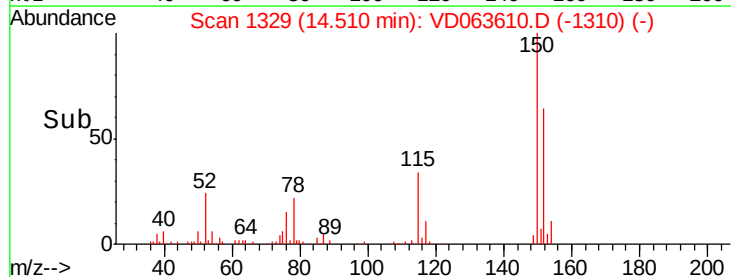
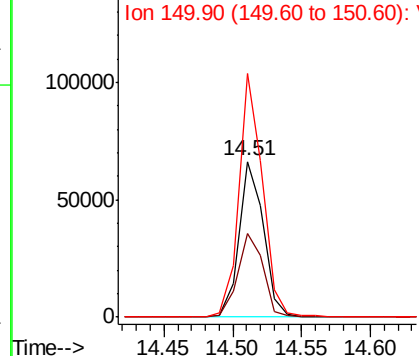


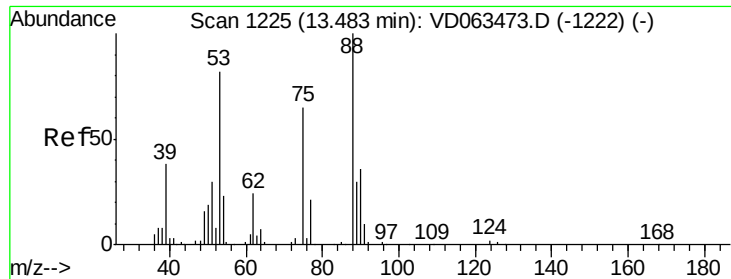
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD063610.D
Acq: 15 Aug 2019 17:21

Tgt Ion:152 Resp: 81908
Ion Ratio Lower Upper
152 100
115 53.7 30.9 92.7
150 156.3 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: 233.076 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063610.D

Acq: 15 Aug 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

TP-1

Tgt Ion: 75 Resp: 58888

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#

