

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063156.D
 Acq On : 19 Jul 2019 16:18
 Operator : VA/AP
 Sample : K3811-01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 05:01:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	521618	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	721138	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	400111	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	114035	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	497875	76.62	ug/l	0.01
Spiked Amount			Recovery	=	153.24%	
35) Dibromofluoromethane	6.93	113	483489	67.31	ug/l	0.01
Spiked Amount			Recovery	=	134.62%	
50) Toluene-d8	10.41	98	806949	52.30	ug/l	0.01
Spiked Amount			Recovery	=	104.60%	
62) 4-Bromofluorobenzene	13.55	95	191978	26.90	ug/l	0.00
Spiked Amount			Recovery	=	53.80%	

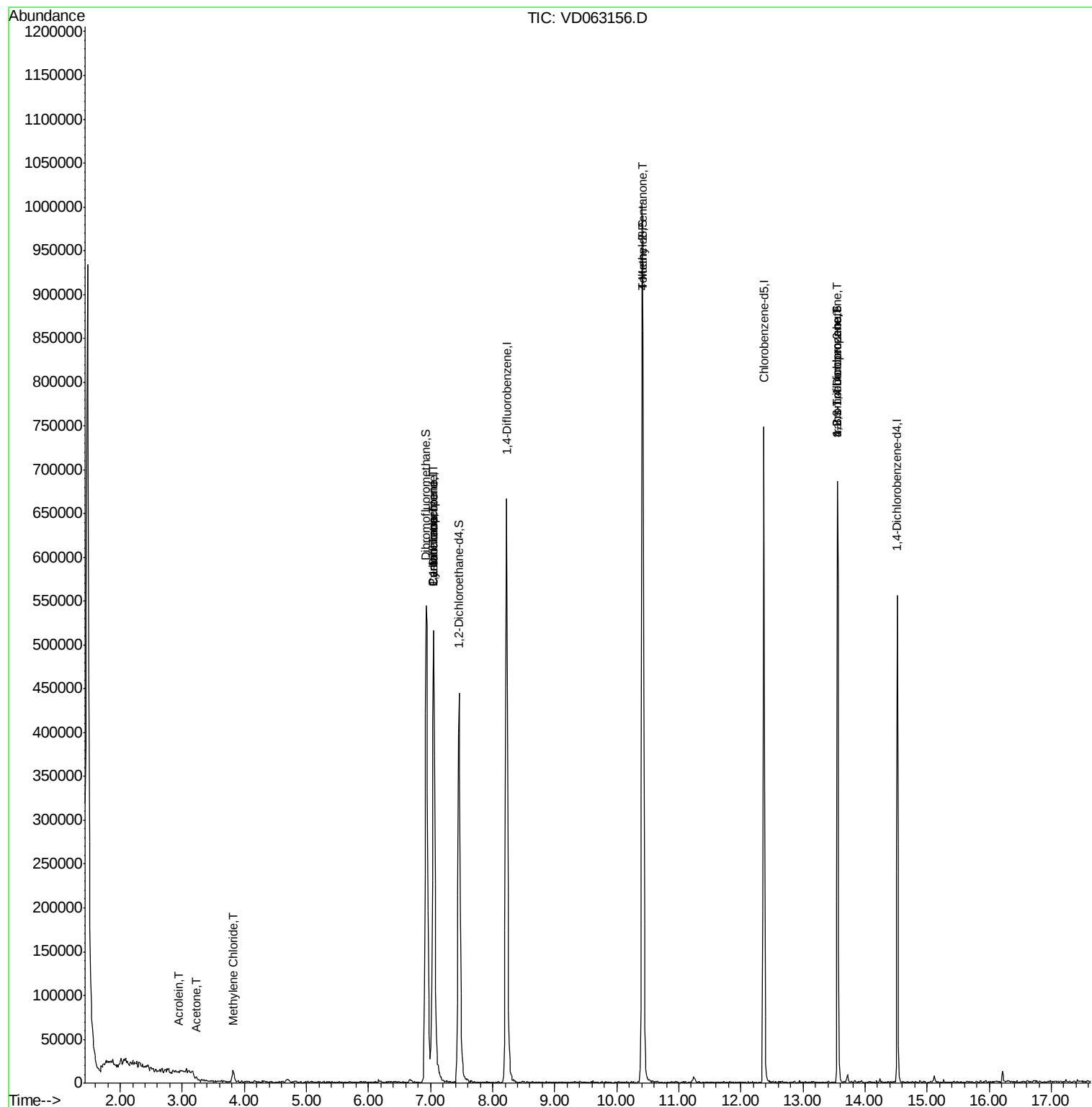
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	415	Below Cal	#	10
3) Chloromethane	1.76	50	452	Below Cal	#	1
5) Bromomethane	2.15	94	977	Below Cal	#	13
13) Acrolein	2.93	56	624	5.513	ug/l	99
16) Acetone	3.23	43	5923	3.774	ug/l #	62
18) Methyl Acetate	3.63	43	501	Below Cal	#	63
20) Methylene Chloride	3.82	84	7149	1.206	ug/l #	78
31) Cyclohexane	7.06	56	10766	1.740	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	41403	5.105	ug/l #	45
38) Carbon Tetrachloride	7.05	117	53979	4.380	ug/l #	10
51) 4-Methyl-2-Pentanone	10.42	43	4678	1.418	ug/l #	1
76) 1,2,3-Trichloropropane	13.55	75	78048	44.492	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.55	75	93648	202.726	ug/l #	1

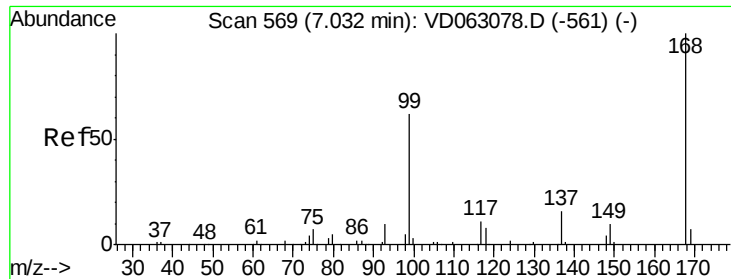
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

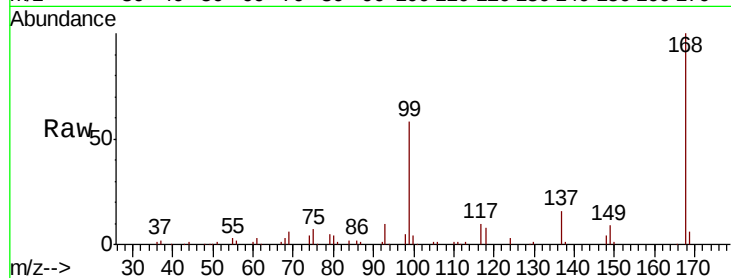
ClientSampleId :

Tot Ion:168 Resp: 521618

Ion Ratio Lower Upper

168 100

99 57.7 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

200000

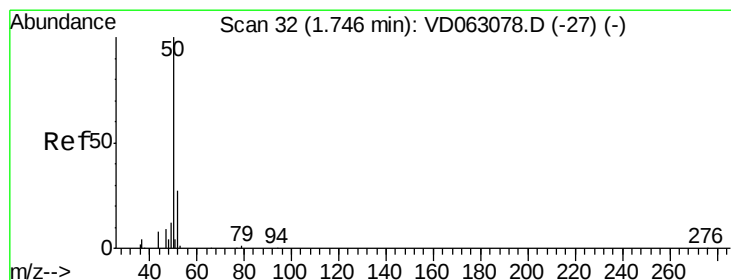
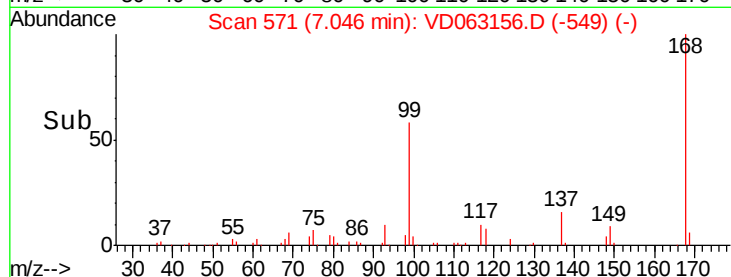
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD063156.D

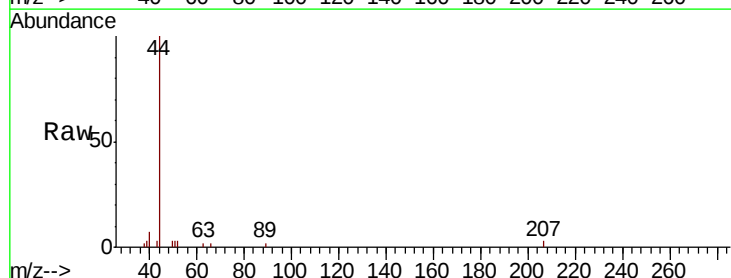
Acq: 19 Jul 2019 16:18

Tgt Ion: 50 Resp: 452

Ion Ratio Lower Upper

50 100

52 116.4 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

600

500

400

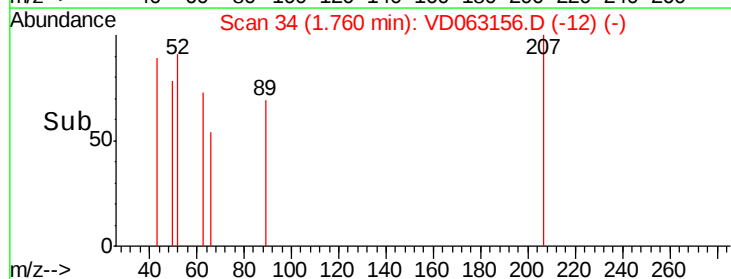
300

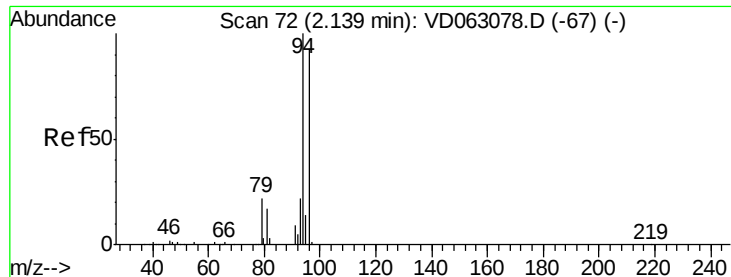
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

ClientSampled :

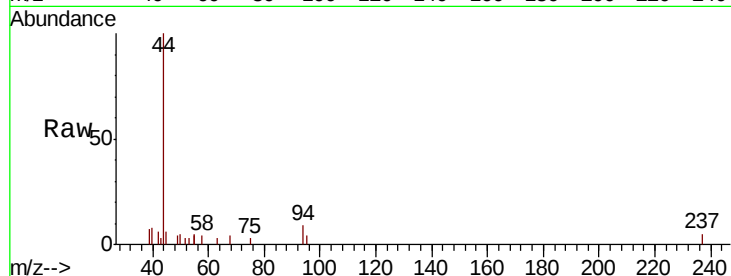
Tot Ion: 94 Resp: 977

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

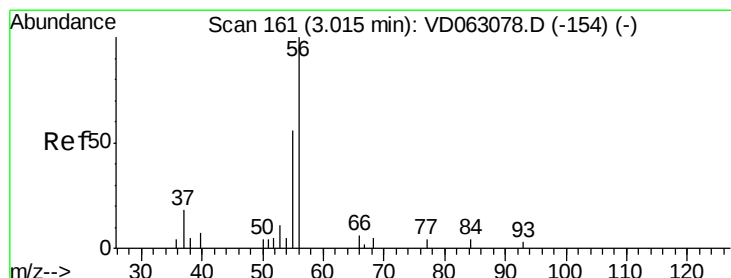
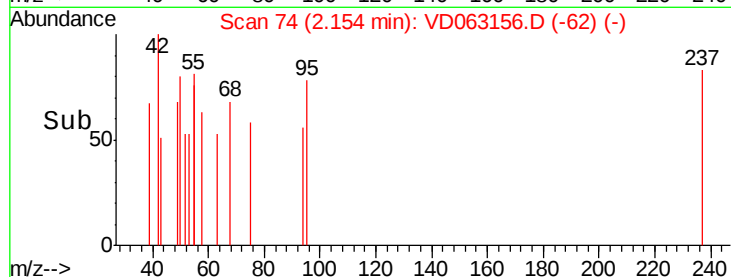
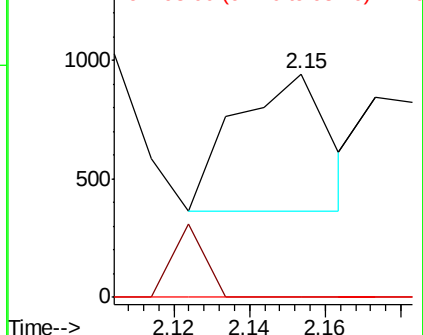
93 0.0 17.8 26.6#



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



#13

Acrolein

Concen: 5.513 ug/l

RT: 2.93 min Scan# 153

Delta R.T. -0.08 min

Lab File: VD063156.D

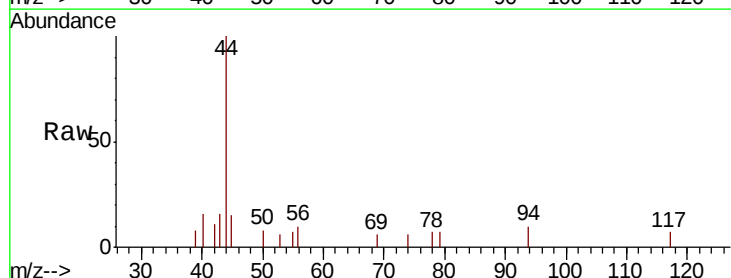
Acq: 19 Jul 2019 16:18

Tgt Ion: 56 Resp: 624

Ion Ratio Lower Upper

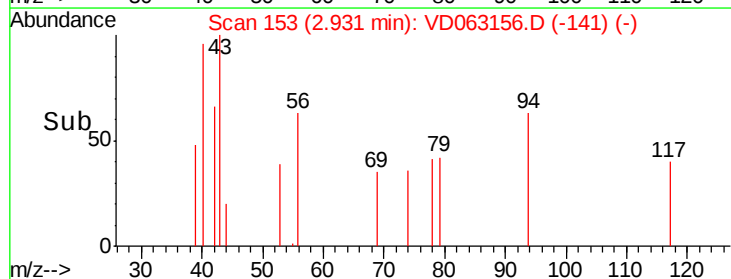
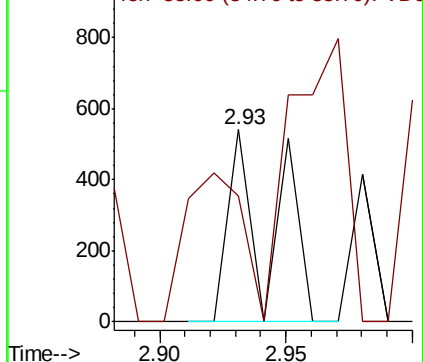
56 100

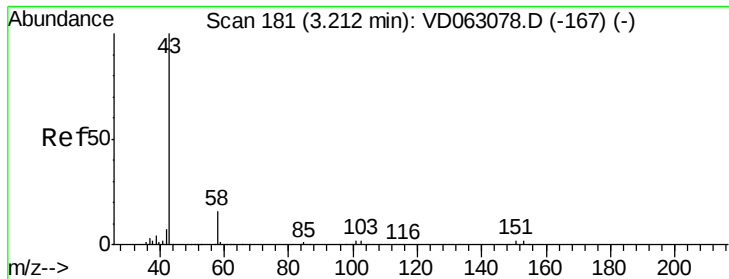
55 65.7 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 3.774 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

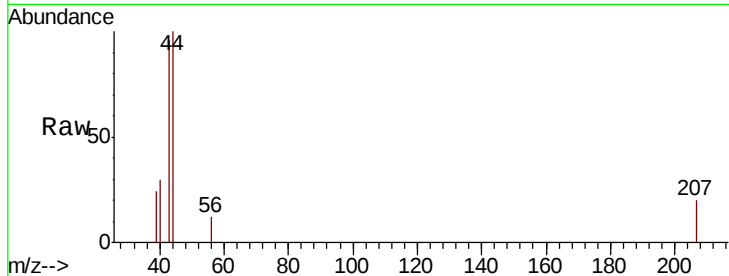
ClientSampleId :

Tot Ion: 43 Resp: 5923

Ion Ratio Lower Upper

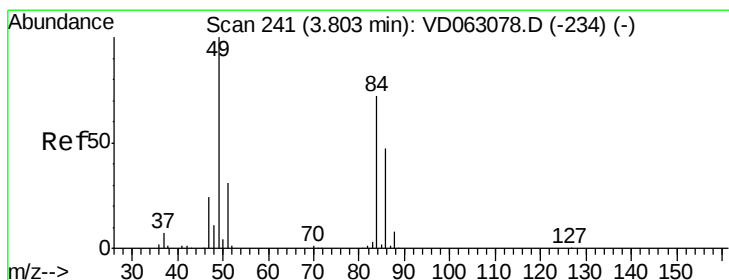
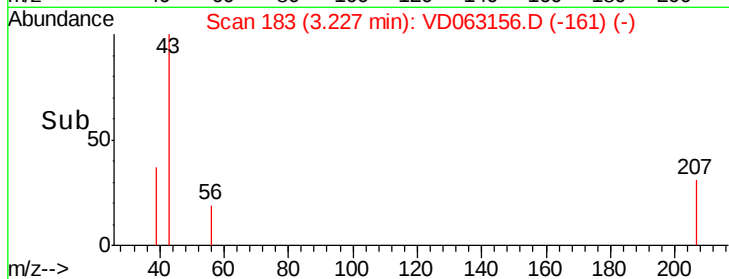
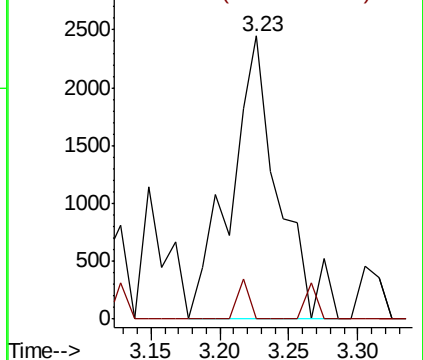
43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 1.206 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Tgt Ion: 84 Resp: 7149

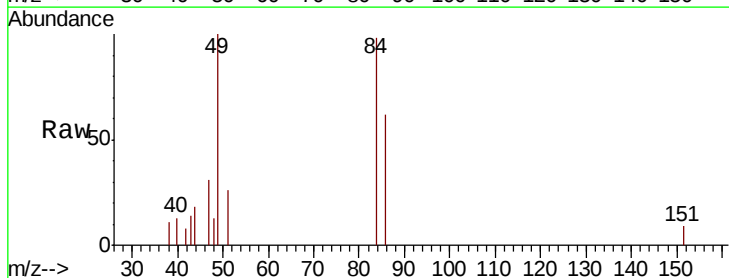
Ion Ratio Lower Upper

84 100

49 101.8 110.5 165.7#

51 26.1 34.6 51.8#

86 62.7 51.6 77.4

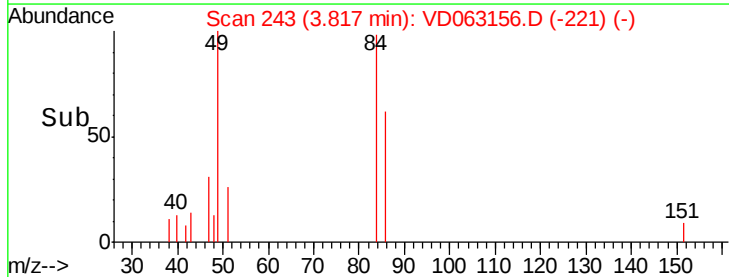
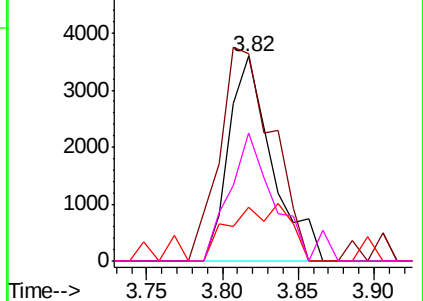


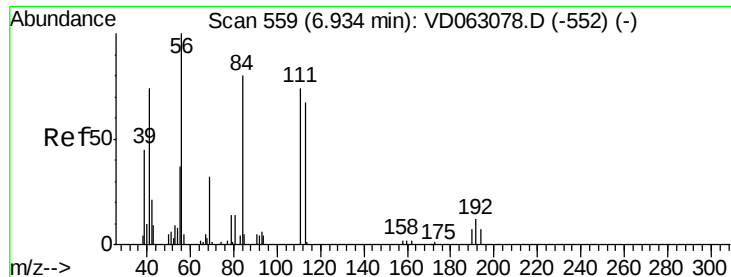
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

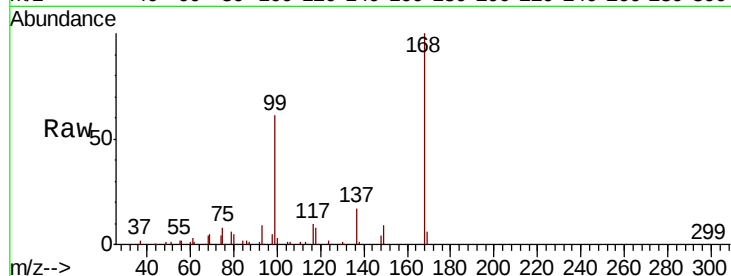




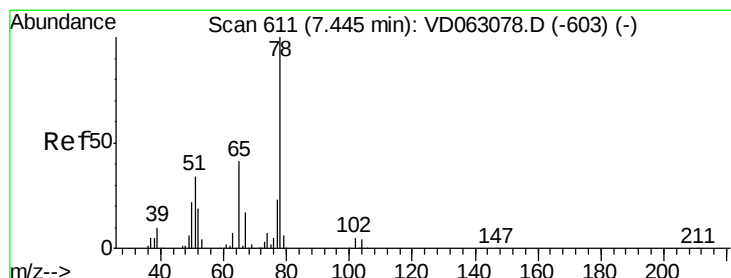
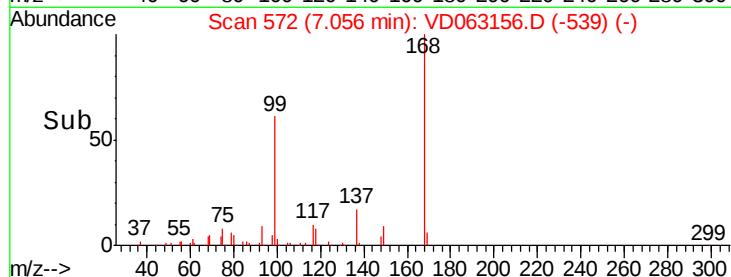
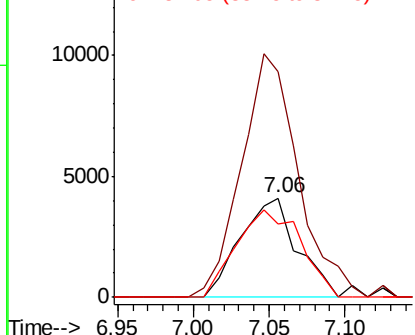
#31
Cyclohexane
Concen: 1.740 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.12 min
Lab File: VD063156.D
Acq: 19 Jul 2019 16:18

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 10766
Ion Ratio Lower Upper
56 100
69 226.4 25.3 37.9#
84 73.3 64.2 96.4

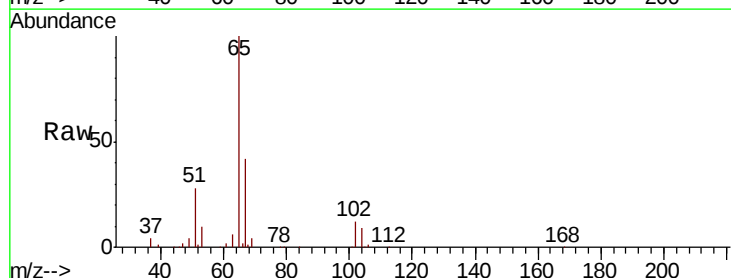


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

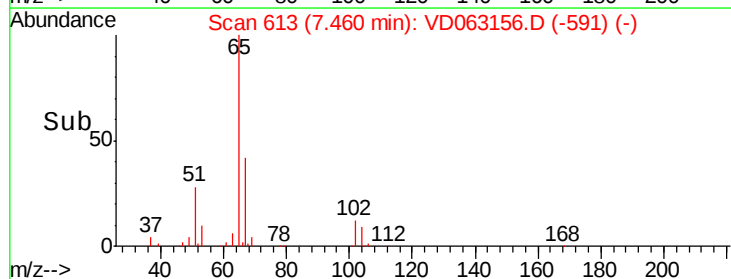
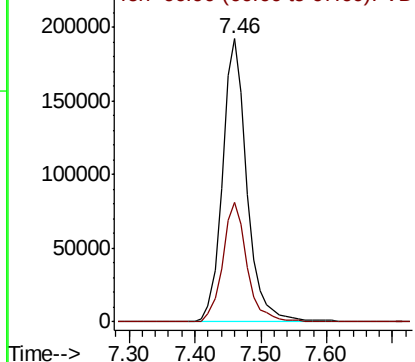


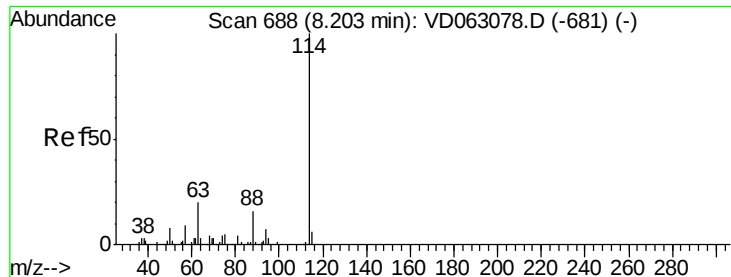
#33
1,2-Dichloroethane-d4
Concen: 76.623 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD063156.D
Acq: 19 Jul 2019 16:18

Tgt Ion: 65 Resp: 497875
Ion Ratio Lower Upper
65 100
67 42.4 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

ClientSampleId :

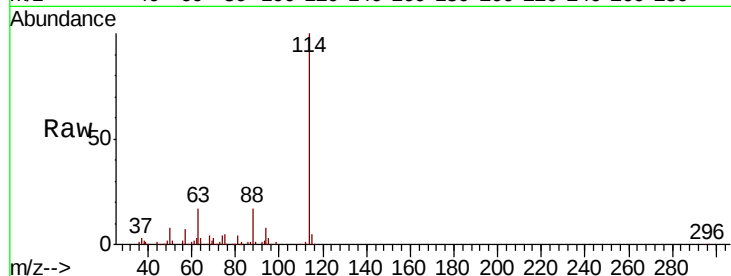
Tot Ion:114 Resp: 721138

Ion Ratio Lower Upper

114 100

63 17.0 0.0 40.6

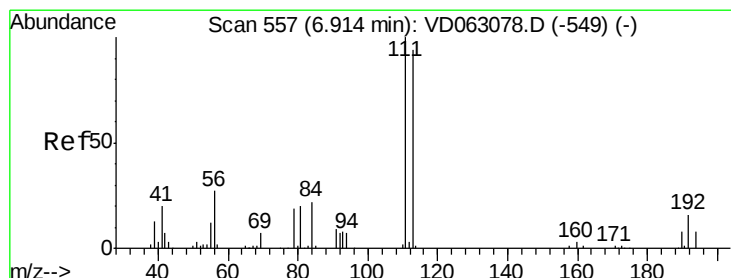
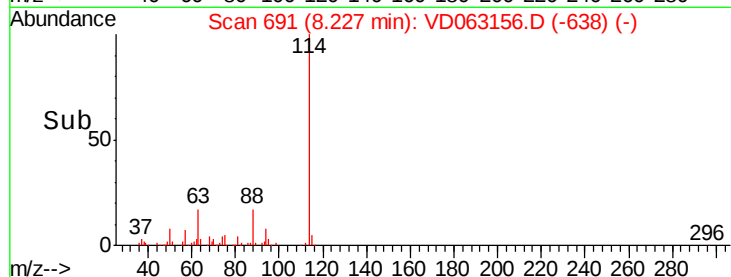
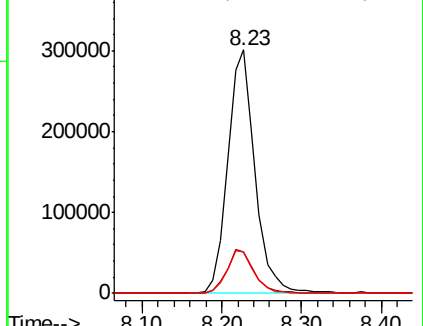
88 17.2 0.0 32.6



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: 67.313 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

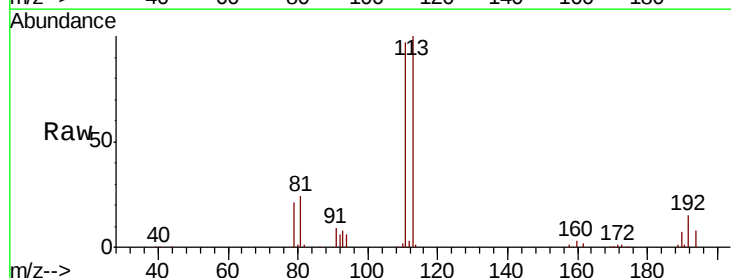
Tgt Ion:113 Resp: 483489

Ion Ratio Lower Upper

113 100

111 97.1 84.8 127.2

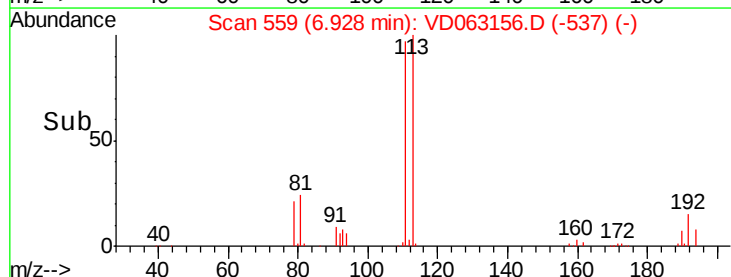
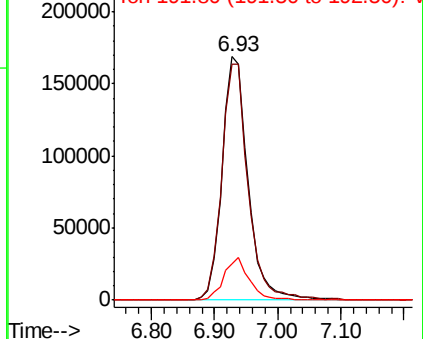
192 15.2 13.4 20.0

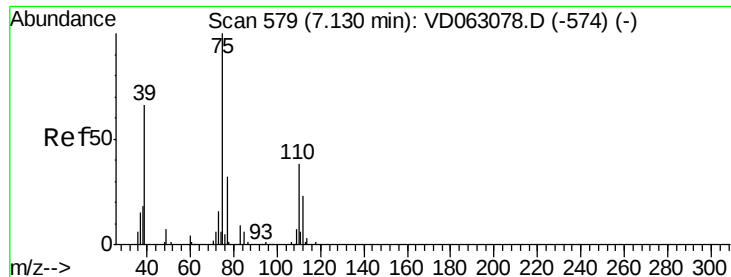


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.105 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

ClientSampleId :

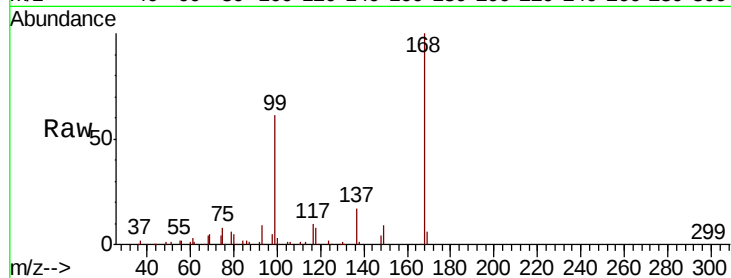
Tot Ion: 75 Resp: 41403

Ion Ratio Lower Upper

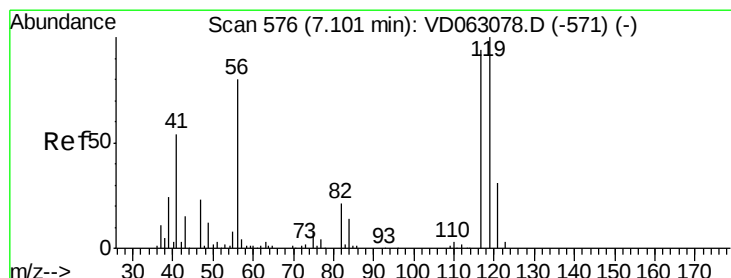
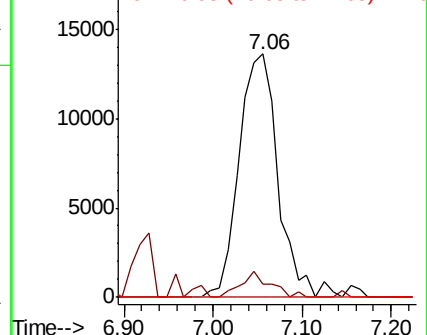
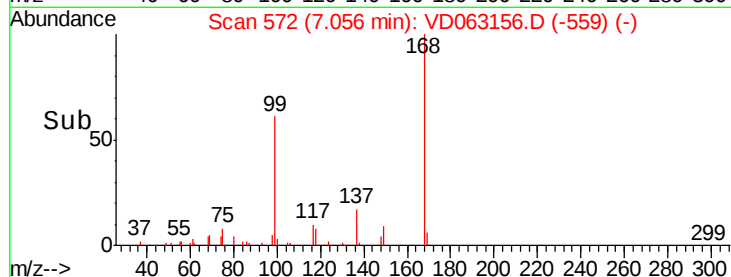
75 100

110 5.5 18.9 56.5#

77 0.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): VD063156.D (-559) (-)



#38

Carbon Tetrachloride

Concen: 4.380 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

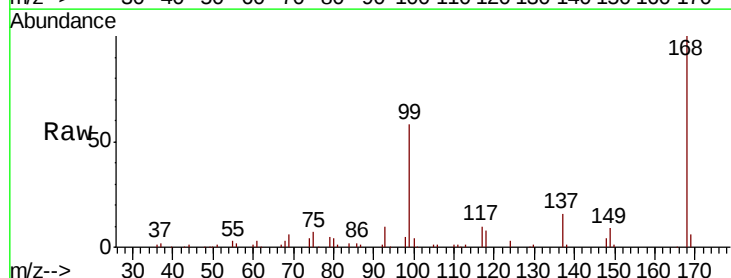
Tgt Ion: 117 Resp: 53979

Ion Ratio Lower Upper

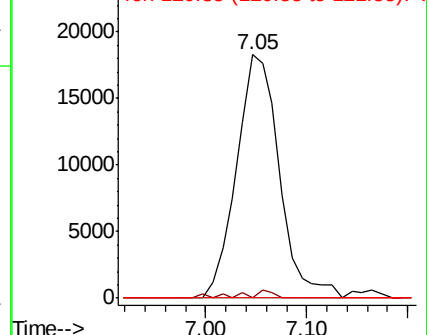
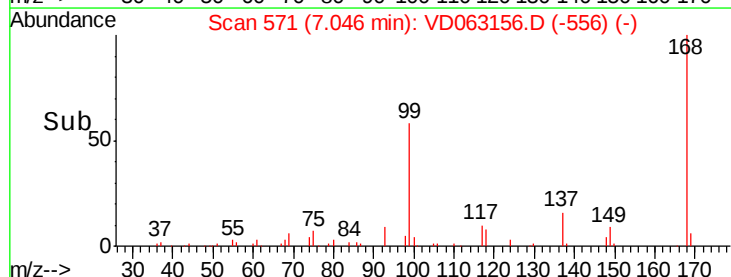
117 100

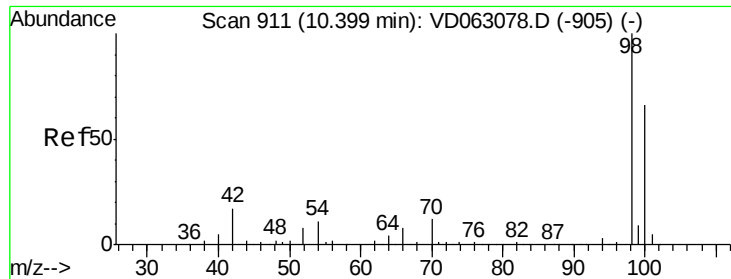
119 0.0 80.0 120.0#

121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): VD063156.D (-556) (-)

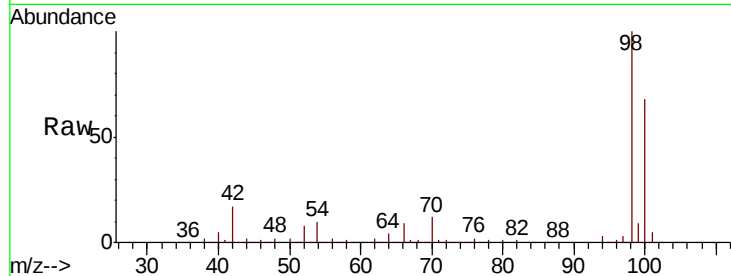




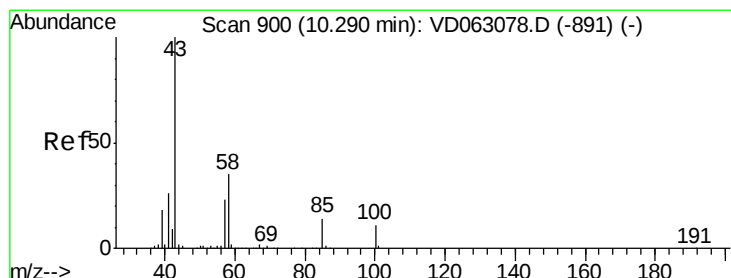
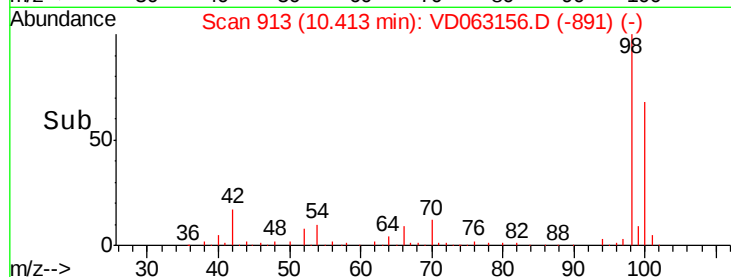
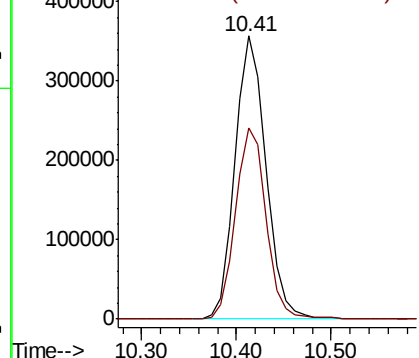
#50
Toluene-d8
Concen: 52.302 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063156.D
Acq: 19 Jul 2019 16:18

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 806949
Ion Ratio Lower Upper
98 100
100 67.7 53.5 80.3

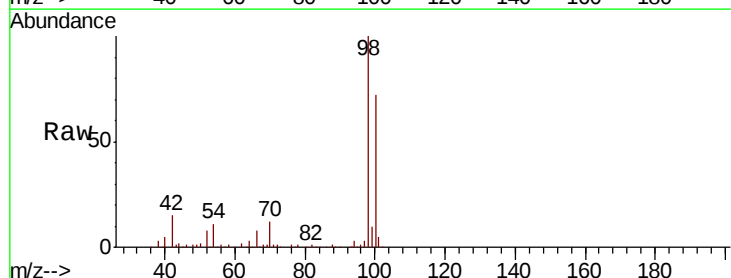


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

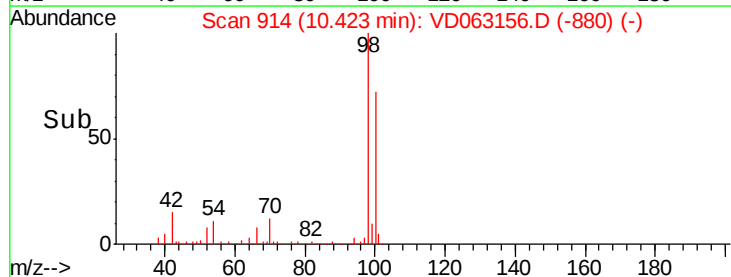
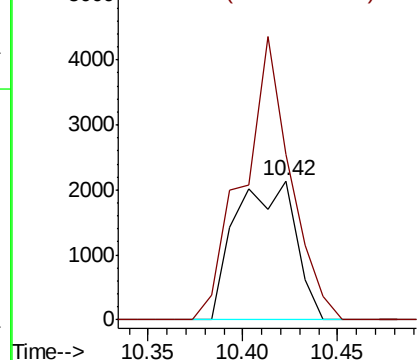


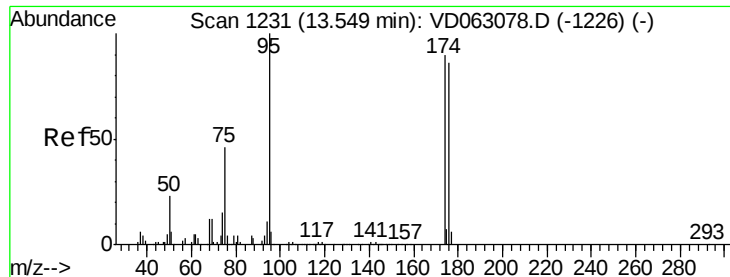
#51
4-Methyl-2-Pentanone
Concen: 1.418 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.13 min
Lab File: VD063156.D
Acq: 19 Jul 2019 16:18

Tgt Ion: 43 Resp: 4678
Ion Ratio Lower Upper
43 100
58 118.8 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 57.95 (57.65 to 58.65): VD0

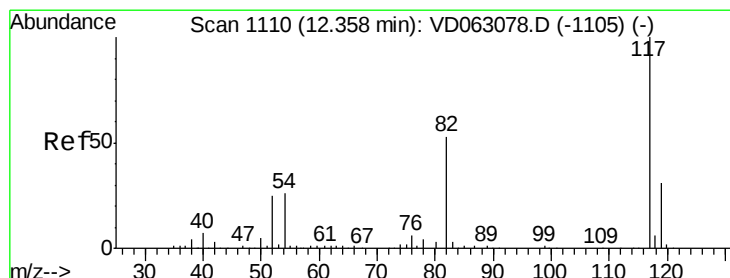
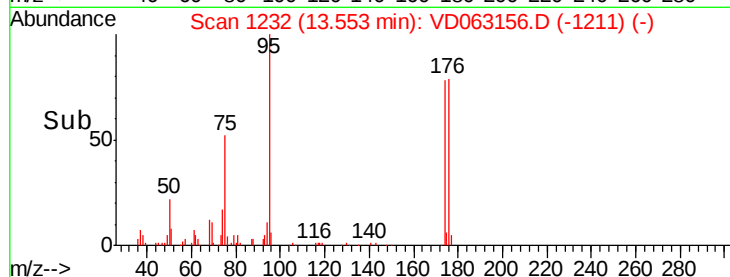
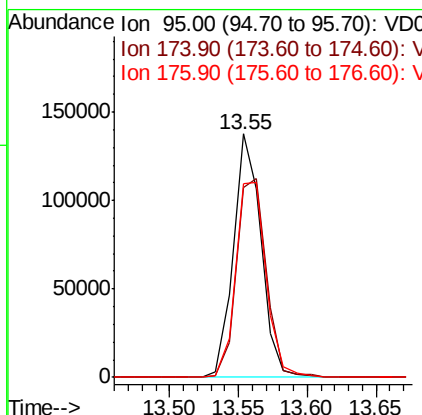
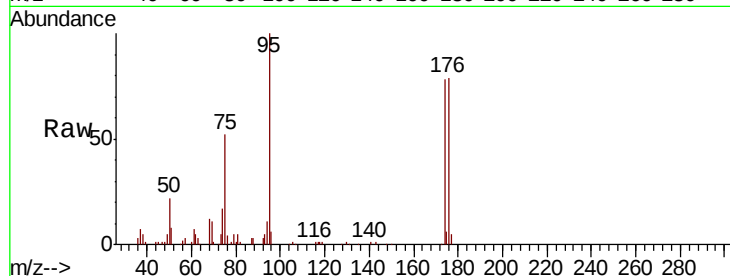




#62
4-Bromofluorobenzene
Concen: 26.896 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063156.D
Acq: 19 Jul 2019 16:18

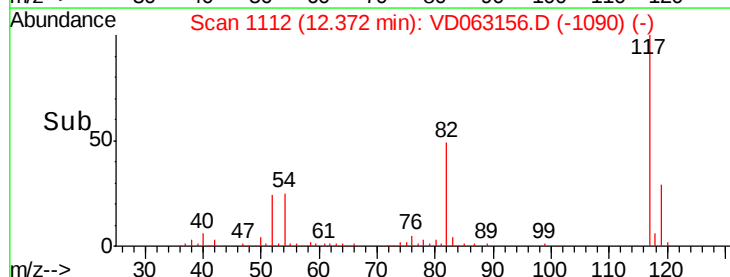
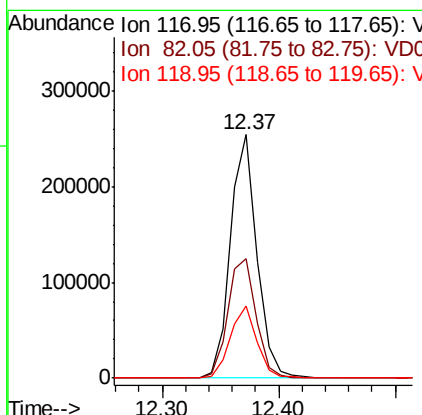
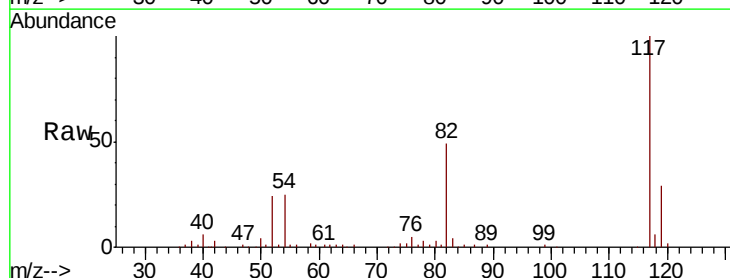
Instrument :
MSVOA_D
ClientSampleId :

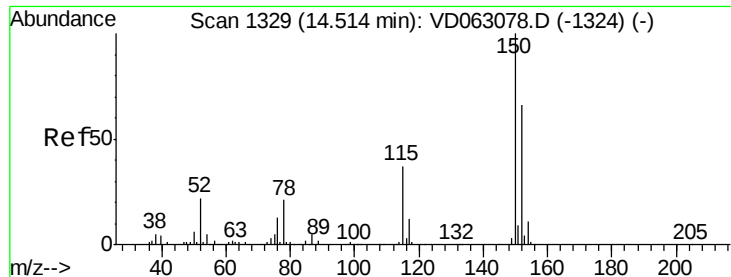
Tot Ion: 95 Resp: 191978
Ion Ratio Lower Upper
95 100
174 78.1 0.0 180.6
176 79.3 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063156.D
Acq: 19 Jul 2019 16:18

Tgt Ion: 117 Resp: 400111
Ion Ratio Lower Upper
117 100
82 48.9 42.3 63.5
119 29.5 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

ClientSampleId :

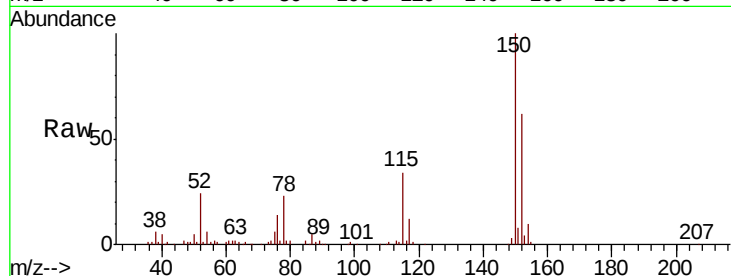
Tot Ion:152 Resp: 114035

Ion Ratio Lower Upper

152 100

115 54.3 28.9 86.8

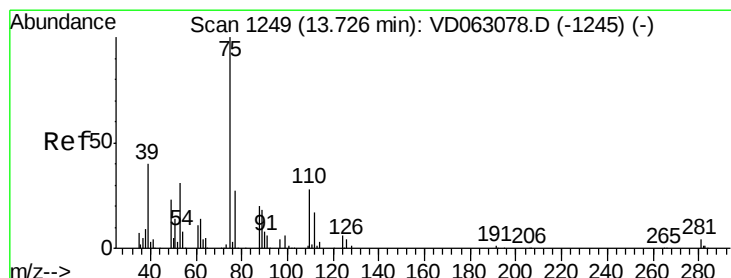
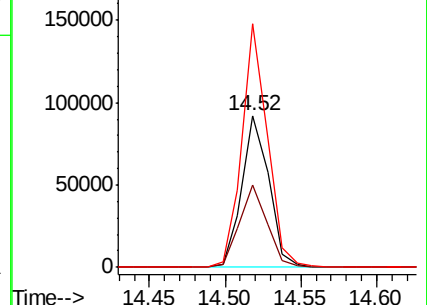
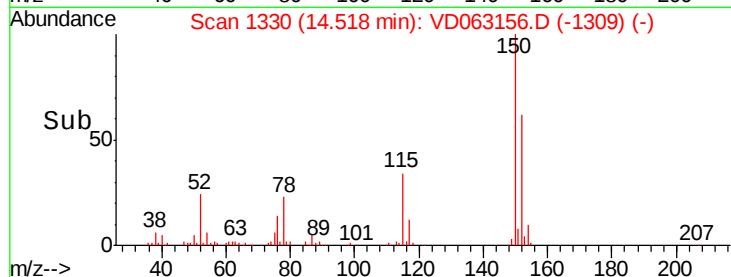
150 160.4 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 44.492 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063156.D

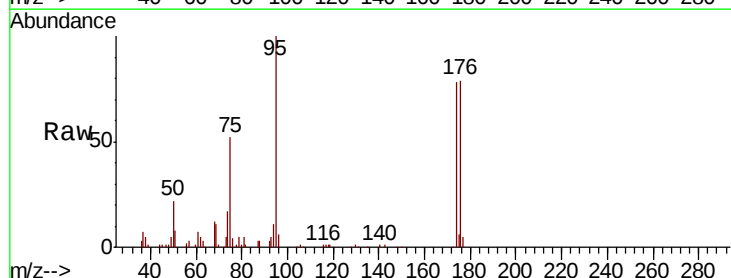
Acq: 19 Jul 2019 16:18

Tgt Ion: 75 Resp: 78048

Ion Ratio Lower Upper

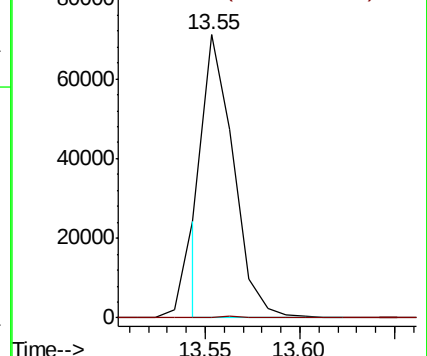
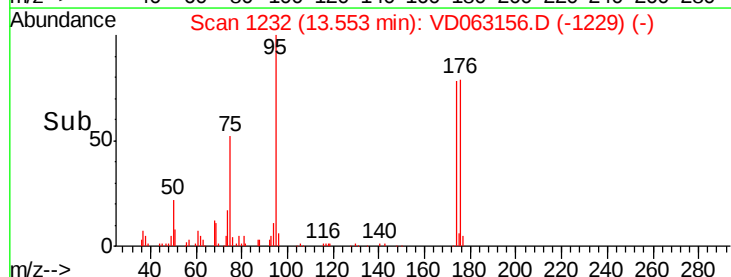
75 100

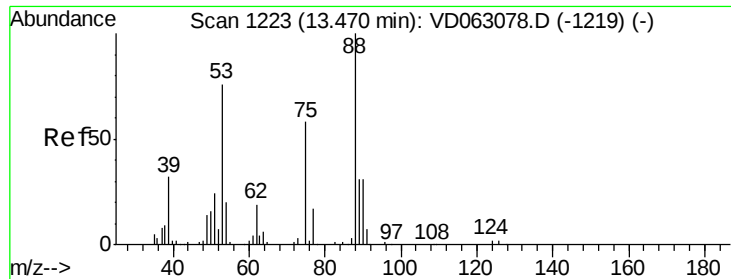
77 0.0 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 202.726 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063156.D

Acq: 19 Jul 2019 16:18

Instrument :

MSVOA_D

ClientSampleId :

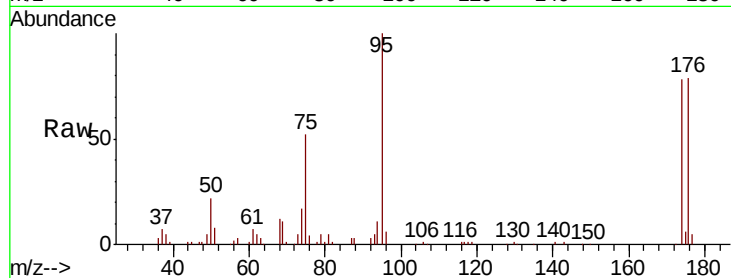
Tot Ion: 75 Resp: 93648

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



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

