

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081919\
 Data File : VD063662.D
 Acq On : 19 Aug 2019 17:18
 Operator : JC/SY
 Sample : K4385-18
 Misc : 5.75g/5ml/MSVOA_D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T8-D-(2)

Quant Time: Aug 20 08:16:05 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	7.05	168	78222	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	129626	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	87303	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	30167	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	80718	96.54	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	193.08%	
35) Dibromofluoromethane	6.92	113	64736	59.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	118.60%	
50) Toluene-d8	10.40	98	98540	41.06	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	82.12%	
62) 4-Bromofluorobenzene	13.55	95	35249	32.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.80%	

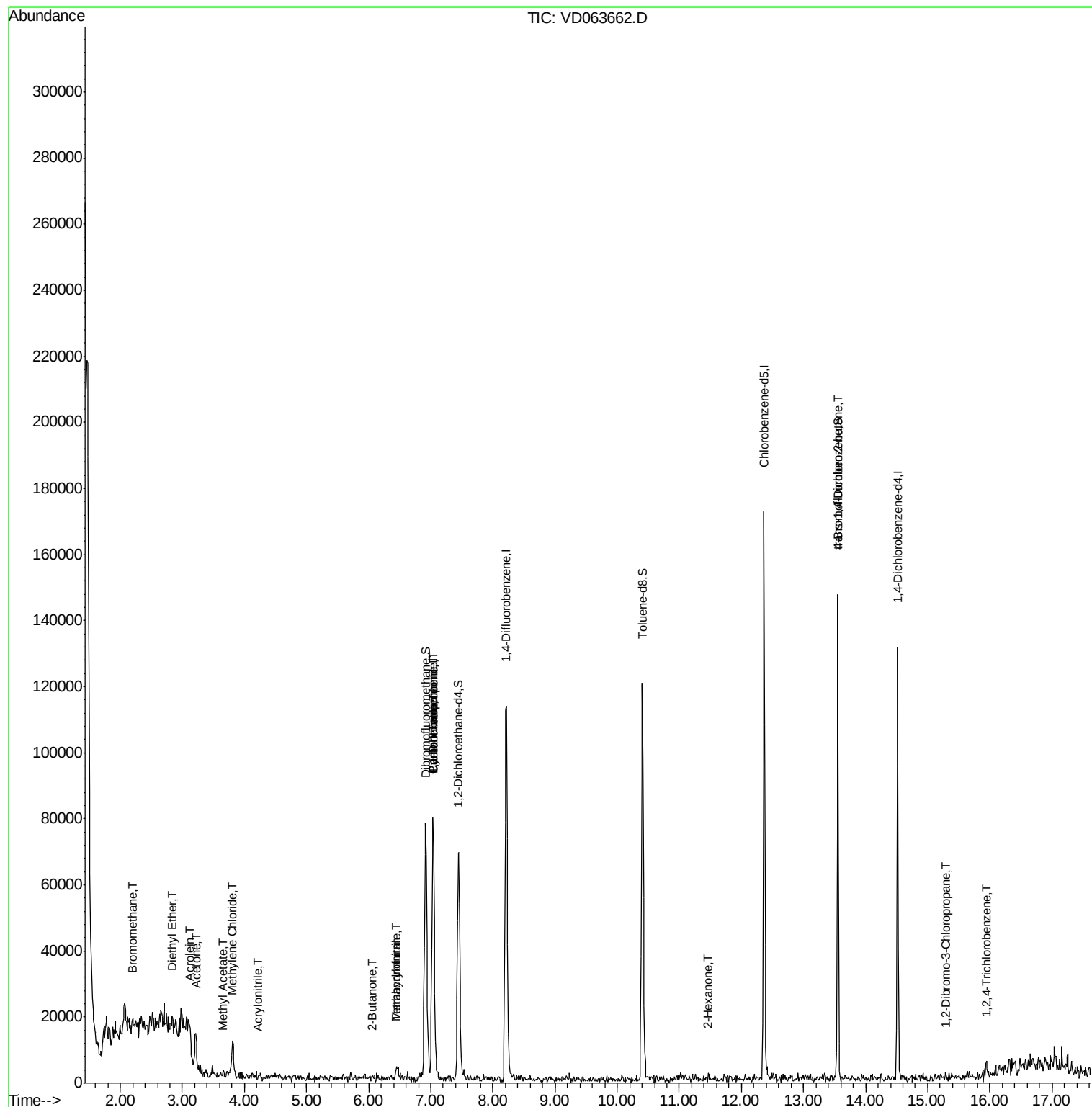
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.20	94	939	2.711	ug/l #	11
8) Diethyl Ether	2.84	74	233	1.146	ug/l	77
13) Acrolein	3.13	56	305	8.513	ug/l	99
15) Acrylonitrile	4.21	53	191	1.981	ug/l #	11
16) Acetone	3.21	43	17839	104.954	ug/l	96
18) Methyl Acetate	3.64	43	1737	5.395	ug/l #	57
20) Methylene Chloride	3.81	84	5035	6.851	ug/l #	90
25) 2-Butanone	6.06	43	502	2.990	ug/l #	58
29) Tetrahydrofuran	6.45	42	3238	41.395	ug/l #	72
31) Cyclohexane	7.05	56	1316	1.743	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	6335	5.528	ug/l #	53
38) Carbon Tetrachloride	7.04	117	7360	4.262	ug/l #	24
41) Methacrylonitrile	6.45	41	1245	2.059	ug/l #	31
59) 2-Hexanone	11.47	43	405	1.265	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	15439	165.914	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.28	75	199	3.318	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	703	1.187	ug/l #	63

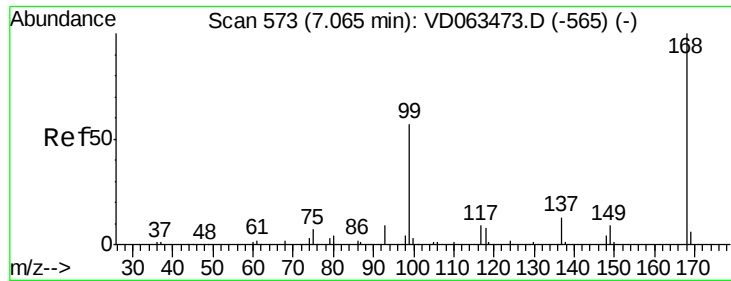
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

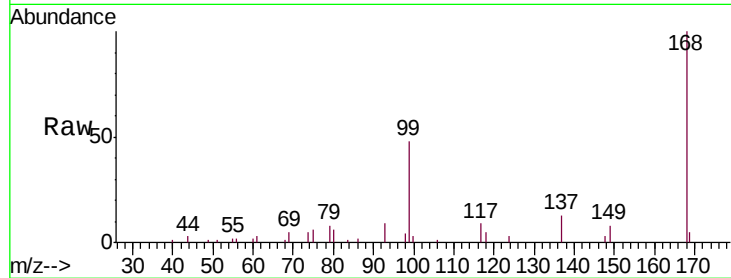
T8-D-(2)

Tgt Ion:168 Resp: 78222

Ion Ratio Lower Upper

168 100

99 48.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

30000

25000

20000

15000

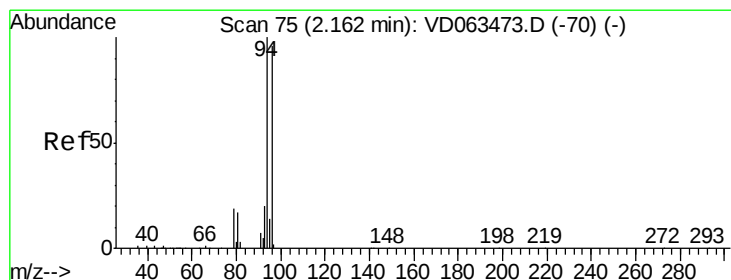
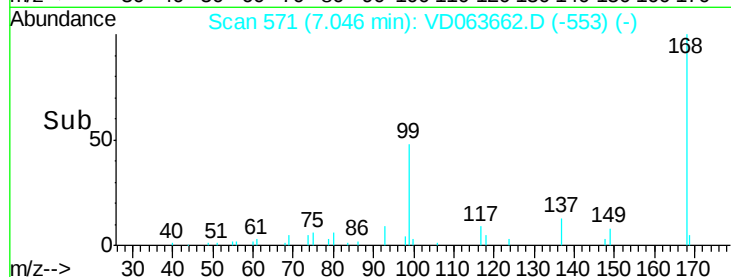
10000

5000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 2.711 ug/l

RT: 2.20 min Scan# 79

Delta R.T. 0.04 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

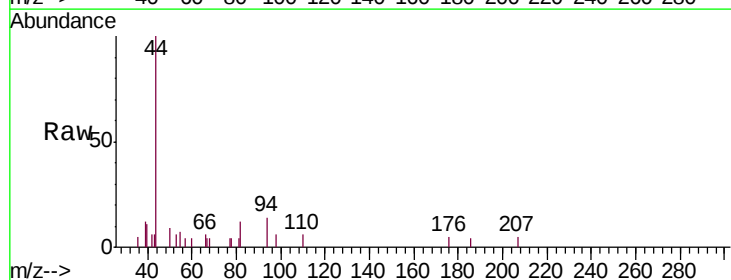
Tgt Ion: 94 Resp: 939

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



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

1500

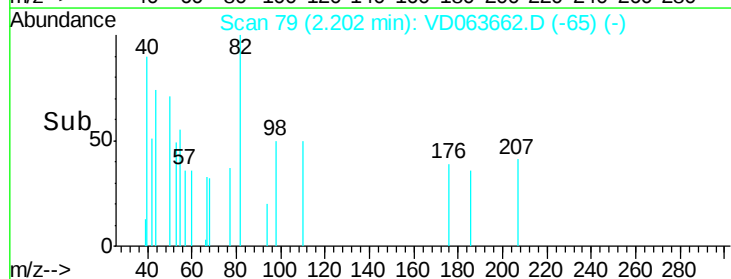
1000

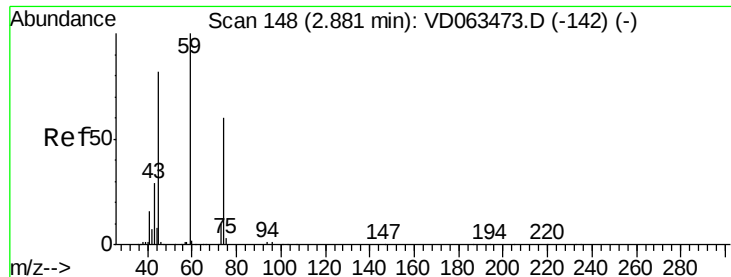
500

0

Time-->

2.16 2.18 2.20 2.22

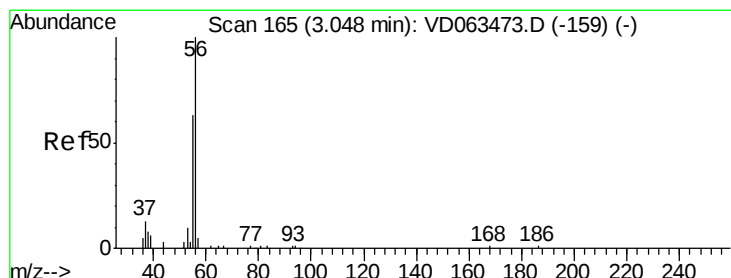
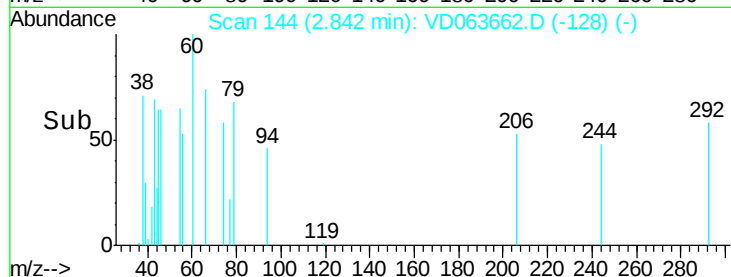
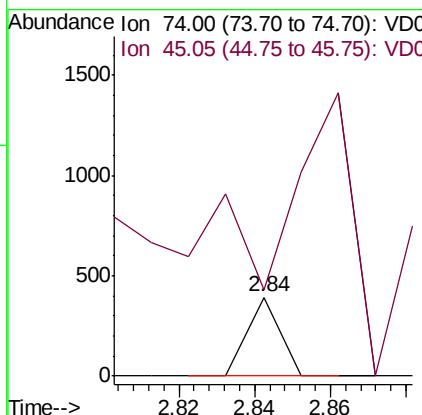
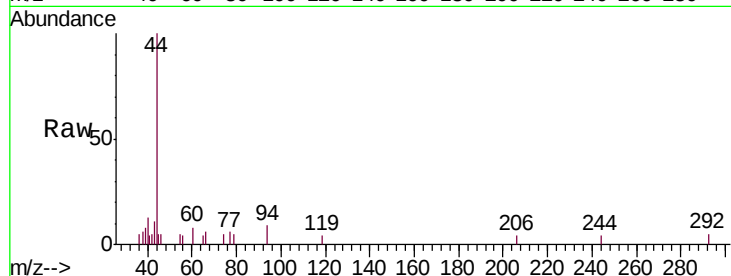




#8
Diethyl Ether
Concen: 1.146 ug/l
RT: 2.84 min Scan# 144
Delta R.T. -0.04 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

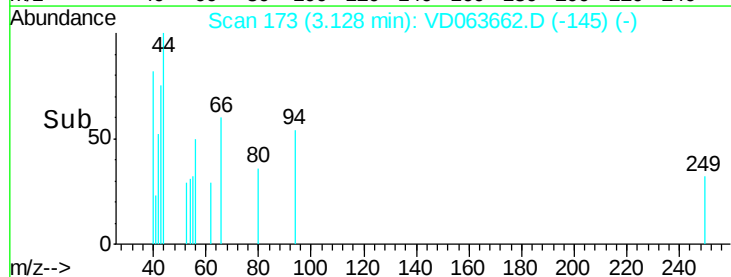
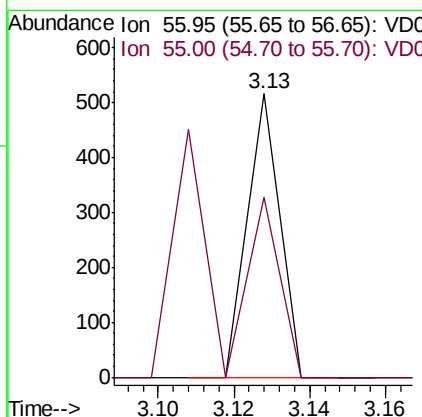
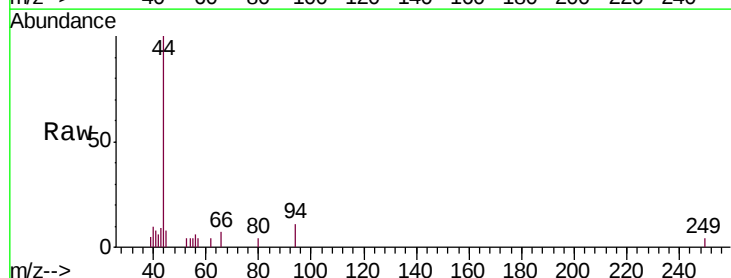
Instrument :
MSVOA_D
ClientSampleId :
T8-D-(2)

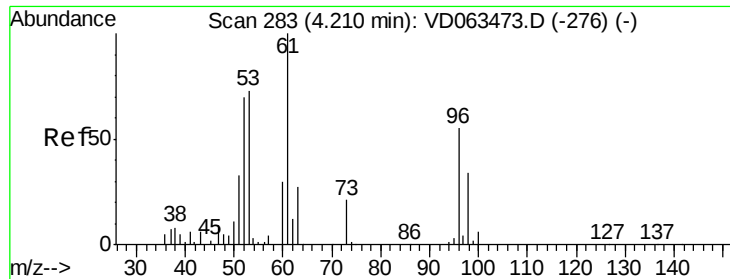
Tgt Ion: 74 Resp: 233
Ion Ratio Lower Upper
74 100
45 109.1 68.5 205.5



#13
Acrolein
Concen: 8.513 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.08 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

Tgt Ion: 56 Resp: 305
Ion Ratio Lower Upper
56 100
55 63.6 51.3 76.9





#15

Acrylonitrile

Concen: 1.981 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.00 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

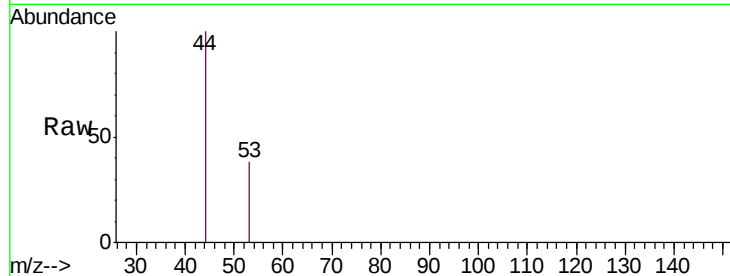
Tgt Ion: 53 Resp: 191

Ion Ratio Lower Upper

53 100

52 0.0 77.4 116.0#

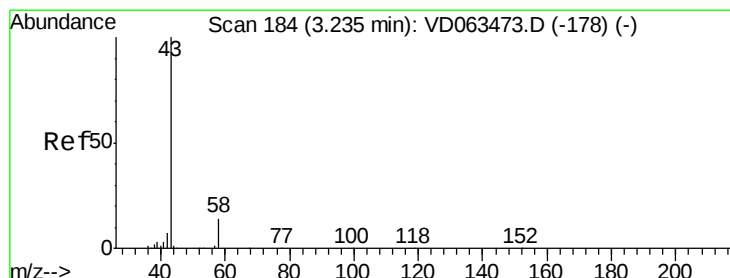
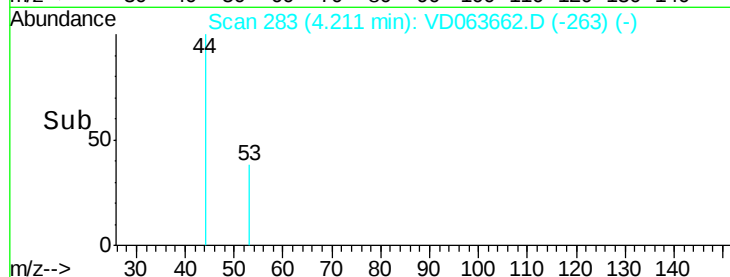
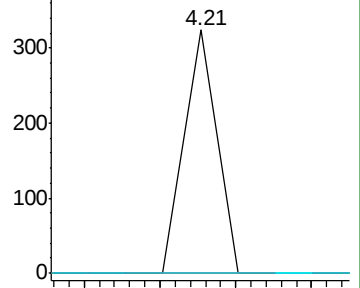
51 0.0 36.7 55.1#



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: 104.954 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063662.D

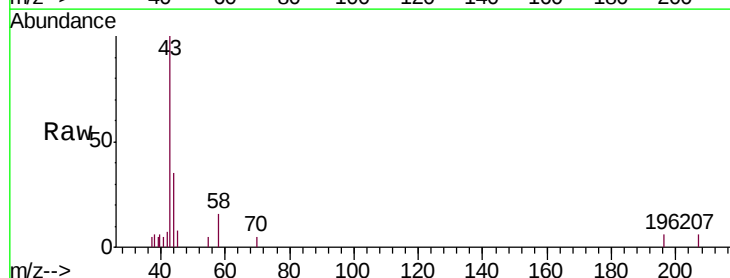
Acq: 19 Aug 2019 17:18

Tgt Ion: 43 Resp: 17839

Ion Ratio Lower Upper

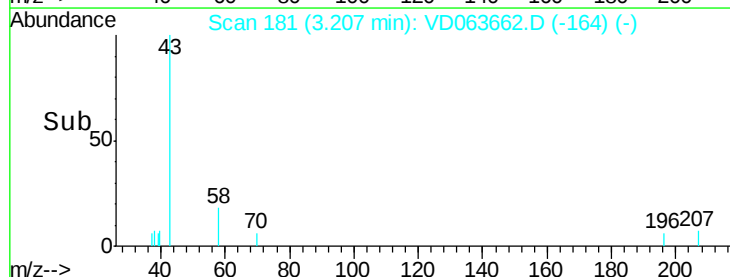
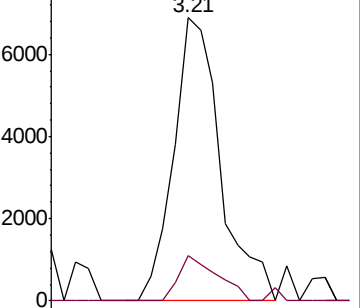
43 100

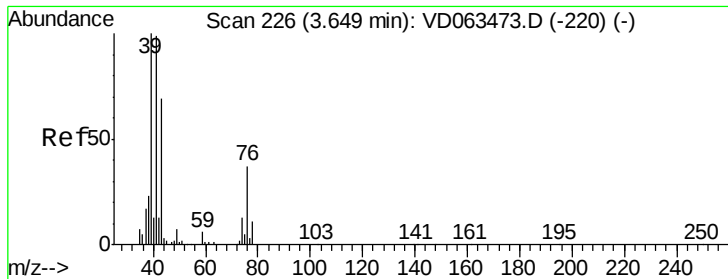
58 15.8 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

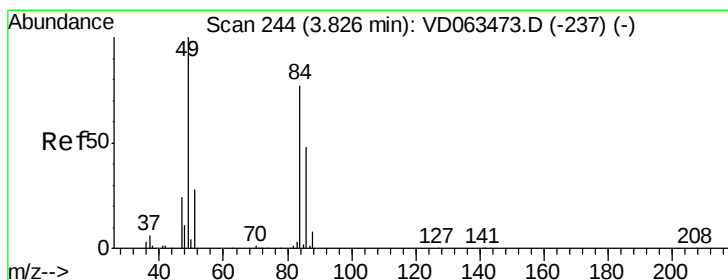
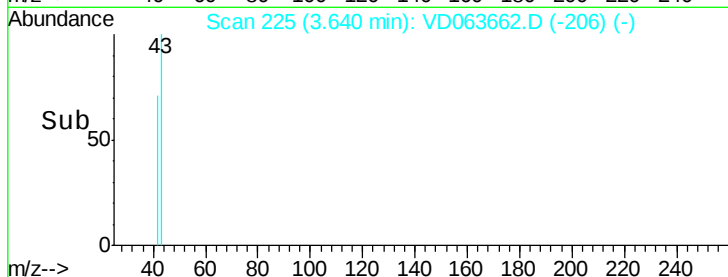
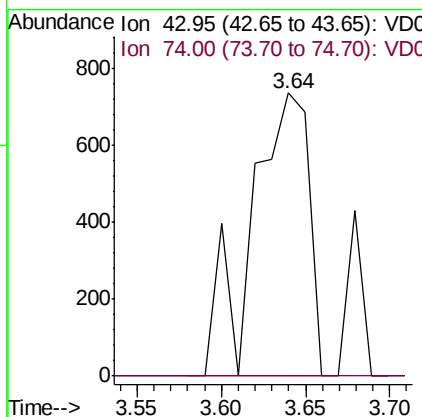
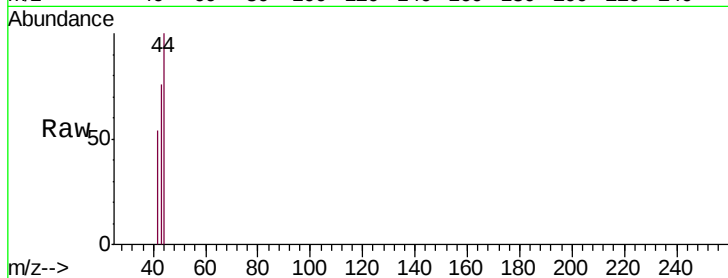




#18
Methyl Acetate
Concen: 5.395 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

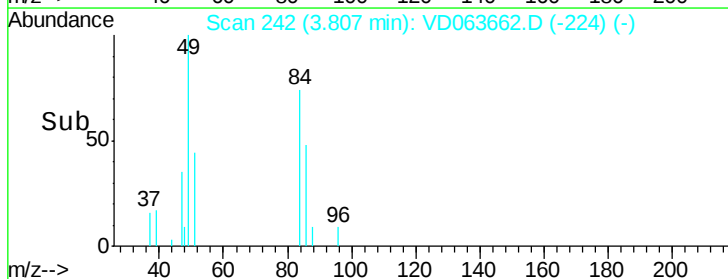
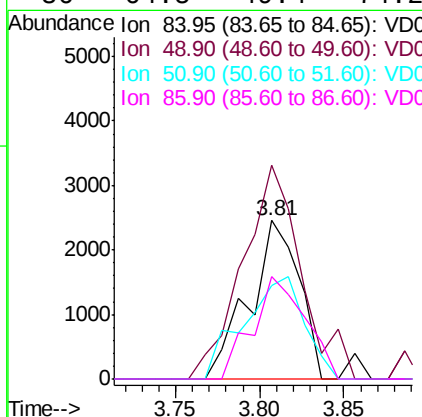
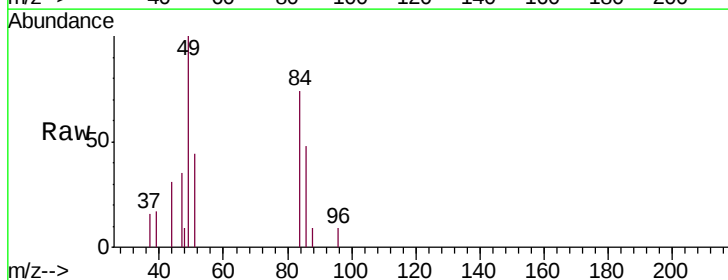
Instrument :
MSVOA_D
ClientSampleId :
T8-D-(2)

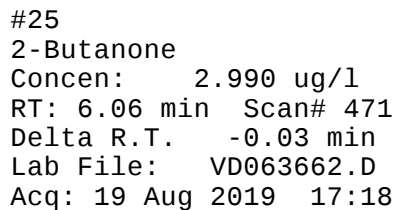
Tgt Ion: 43 Resp: 1737
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



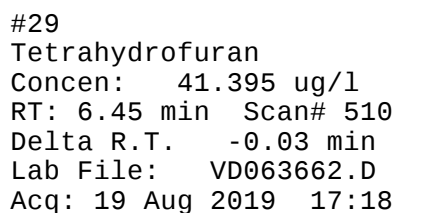
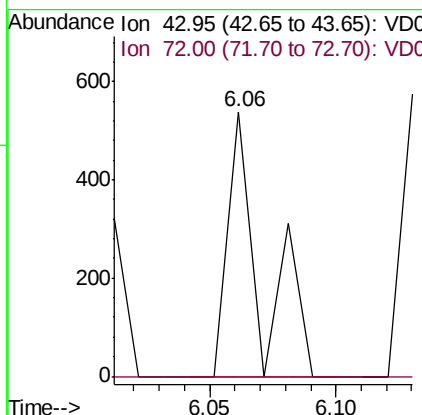
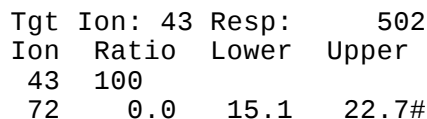
#20
Methylene Chloride
Concen: 6.851 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

Tgt Ion: 84 Resp: 5035
Ion Ratio Lower Upper
84 100
49 135.0 103.4 155.2
51 58.9 28.5 42.7#
86 64.5 49.4 74.2

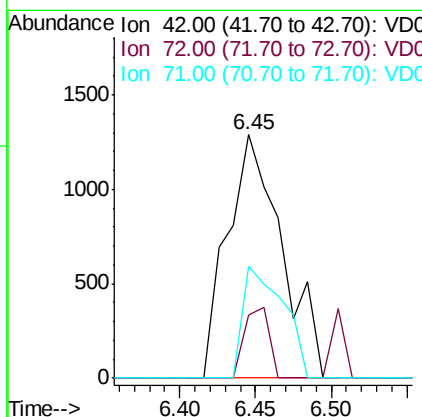


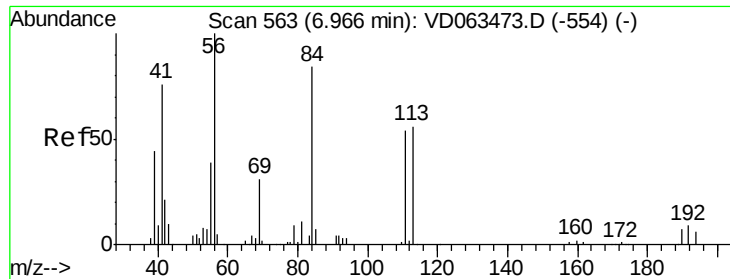


Instrument :
MSVOA_D
ClientSampleId :
T8-D-(2)



Tgt	Ion: 42	Resp:	3238
Ion	Ratio	Lower	Upper
42	100		
72	12.9	31.5	47.3#
71	33.8	33.8	50.8#

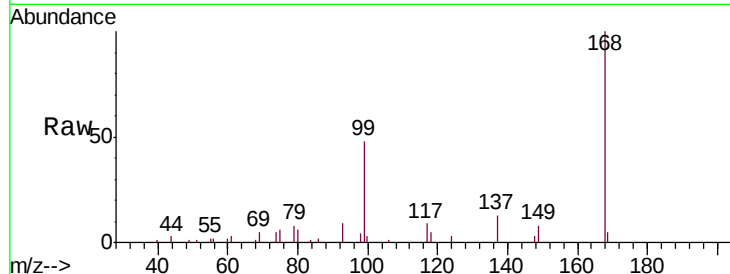




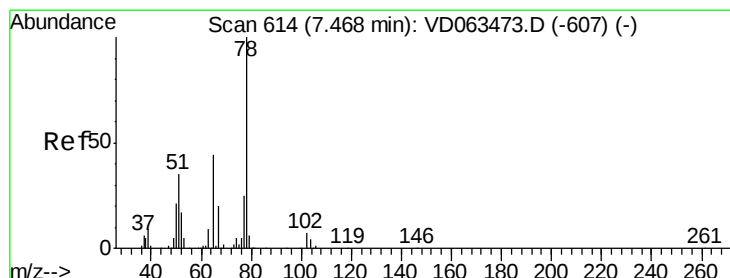
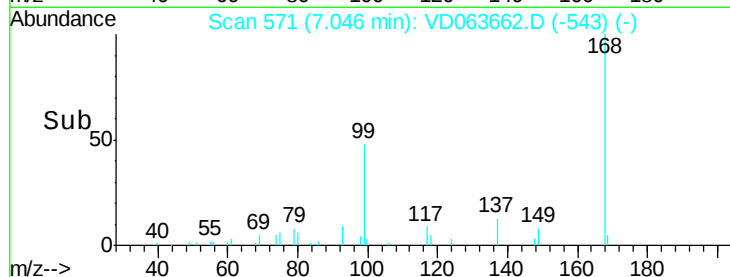
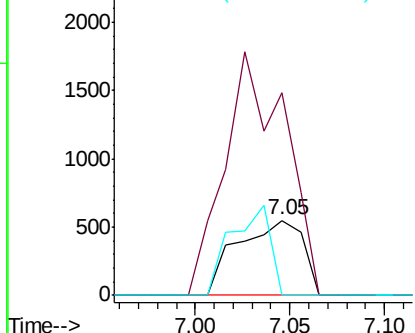
#31
Cyclohexane
Concen: 1.743 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

Instrument :
MSVOA_D
ClientSampleId :
T8-D-(2)

Tgt Ion: 56 Resp: 1316
Ion Ratio Lower Upper
56 100
69 269.1 25.0 37.6#
84 0.0 69.7 104.5#

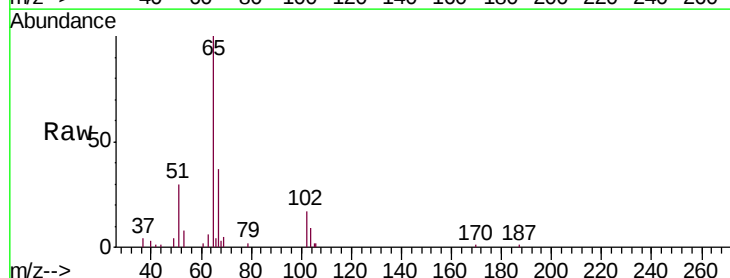


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

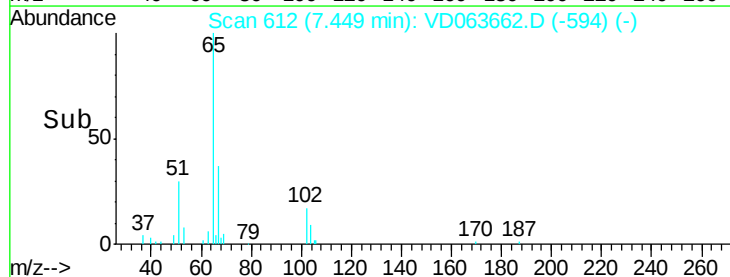
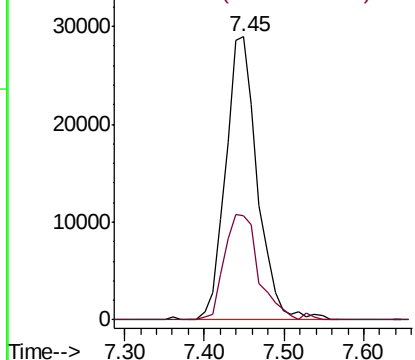


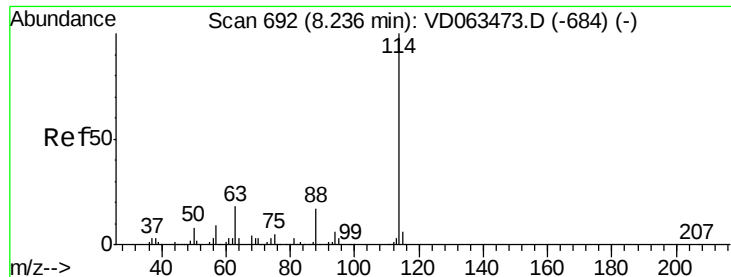
#33
1,2-Dichloroethane-d4
Concen: 96.537 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

Tgt Ion: 65 Resp: 80718
Ion Ratio Lower Upper
65 100
67 37.0 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: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

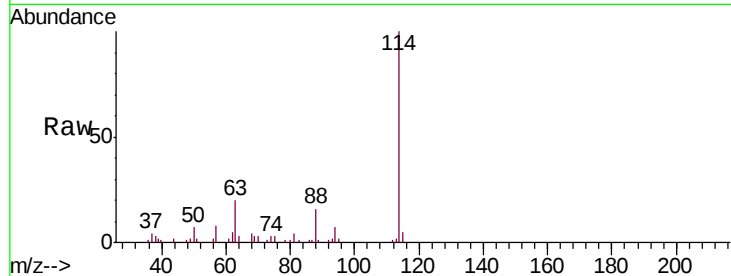
Tgt Ion:114 Resp: 129626

Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.2

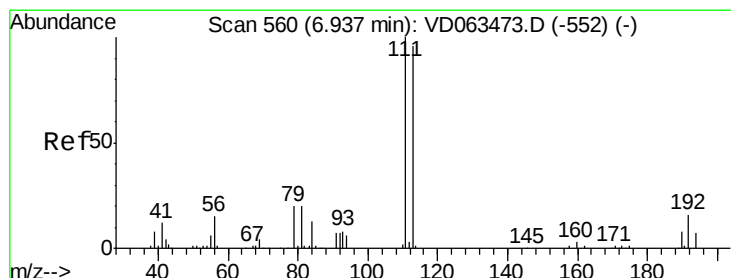
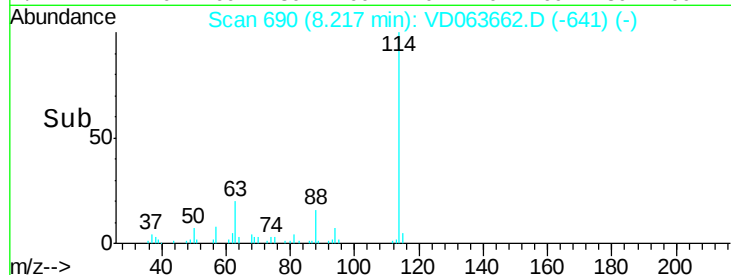
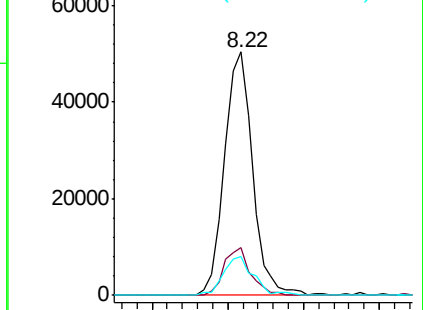
88 16.1 0.0 35.0



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: 59.297 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

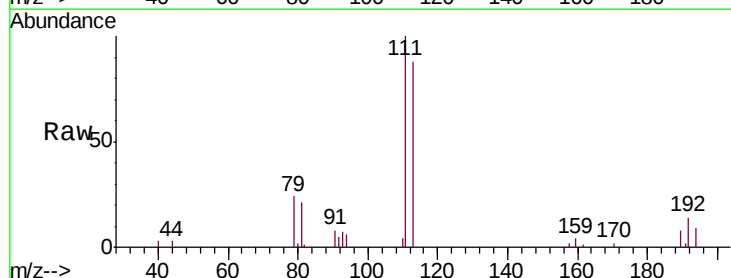
Tgt Ion:113 Resp: 64736

Ion Ratio Lower Upper

113 100

111 113.5 83.1 124.7

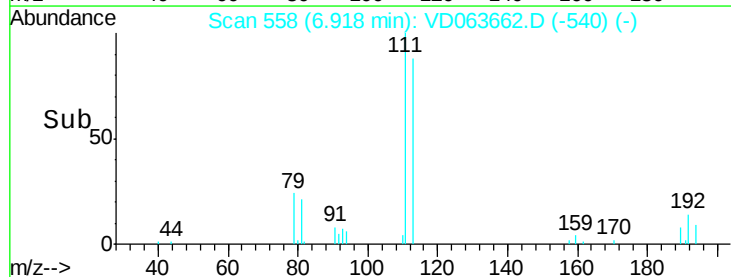
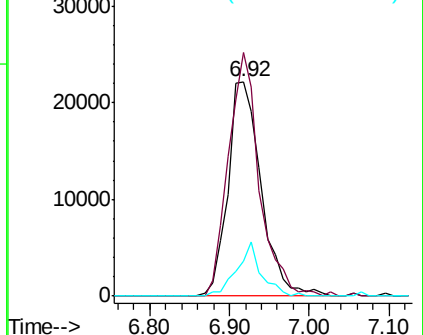
192 16.0 13.1 19.7

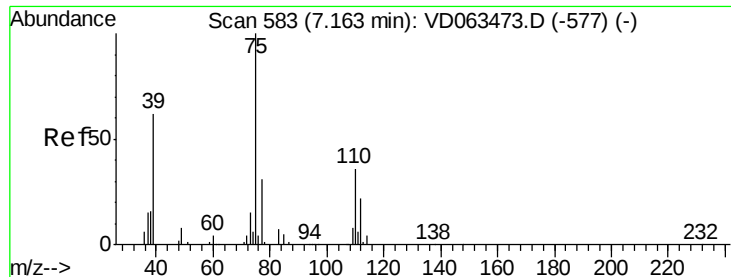


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.528 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.13 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

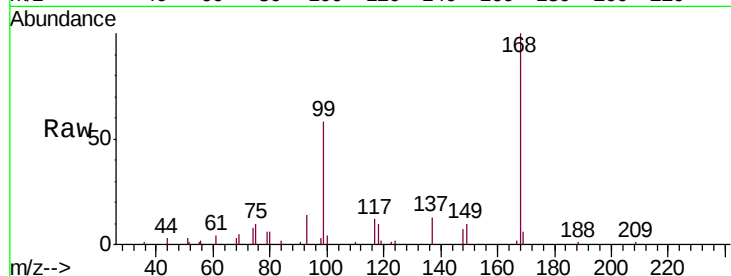
Tgt Ion: 75 Resp: 6335

Ion Ratio Lower Upper

75 100

110 12.2 17.6 52.8#

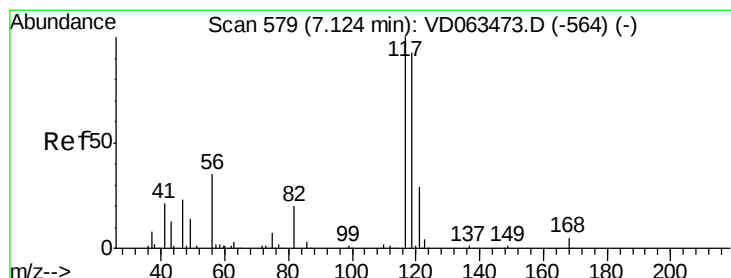
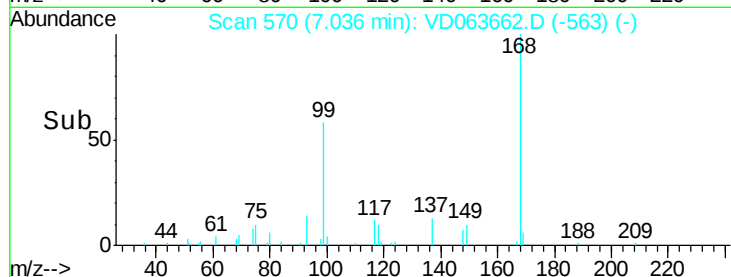
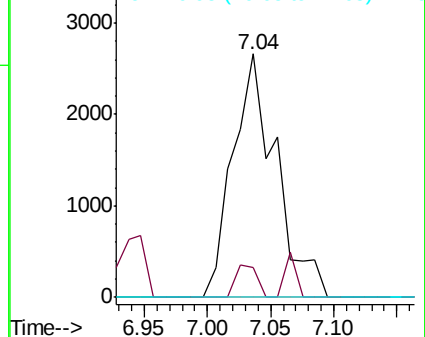
77 0.0 24.3 36.5#



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: 4.262 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

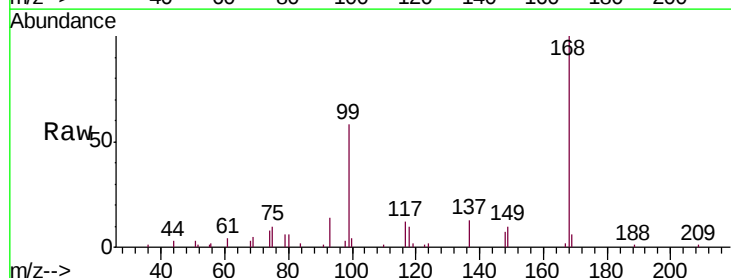
Tgt Ion: 117 Resp: 7360

Ion Ratio Lower Upper

117 100

119 13.3 74.2 111.2#

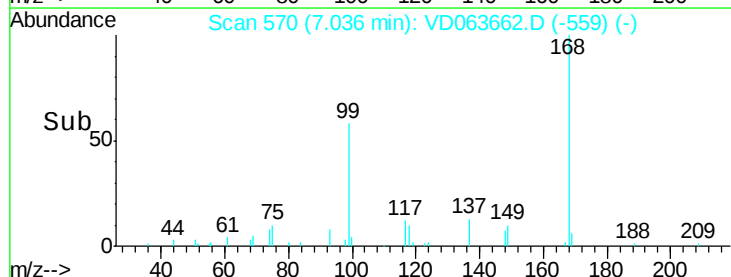
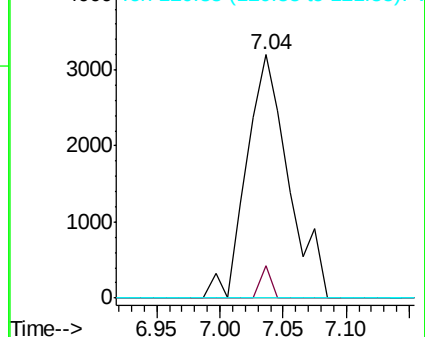
121 0.0 23.1 34.7#

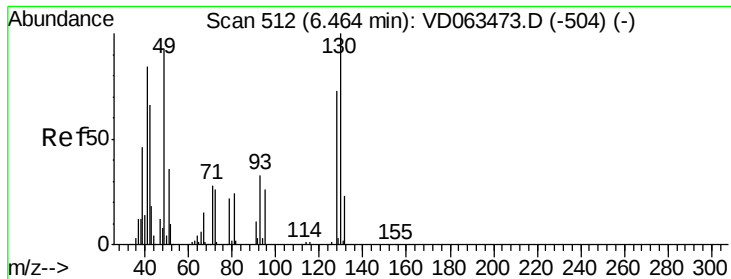


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#41

Methacrylonitrile

Concen: 2.059 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

Tgt Ion: 41 Resp: 1245

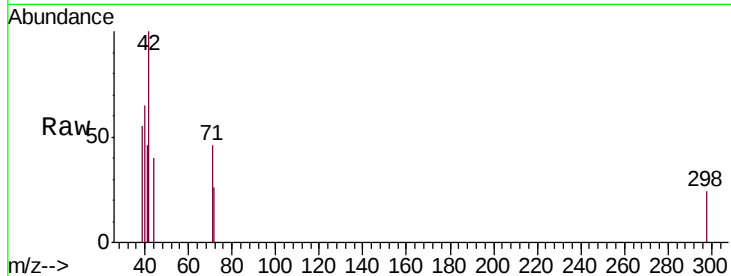
Ion Ratio Lower Upper

41 100

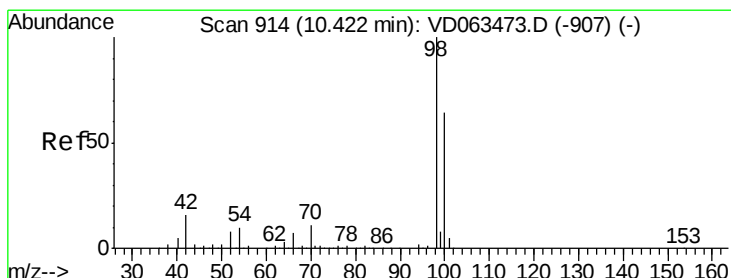
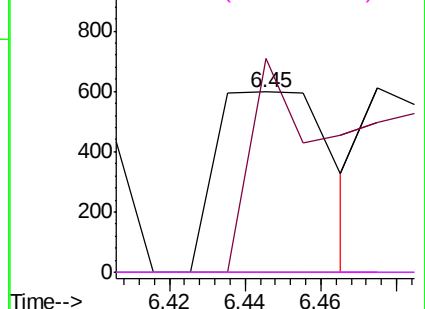
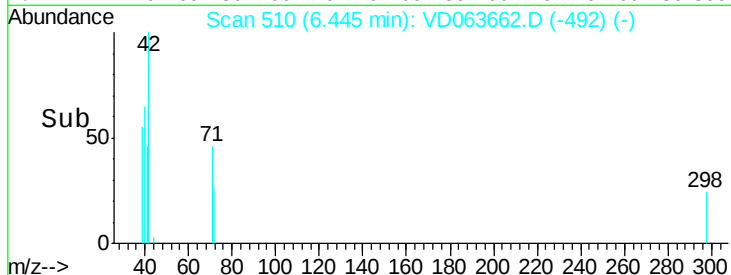
39 118.6 44.6 66.8#

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: 41.055 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063662.D

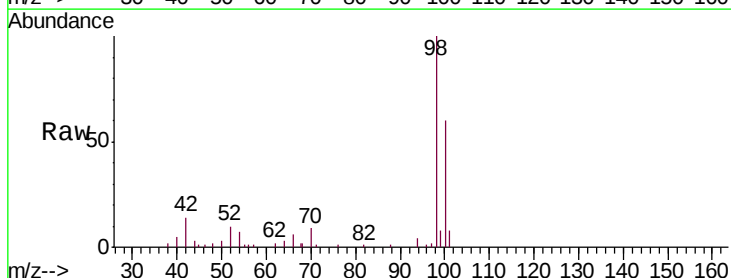
Acq: 19 Aug 2019 17:18

Tgt Ion: 98 Resp: 98540

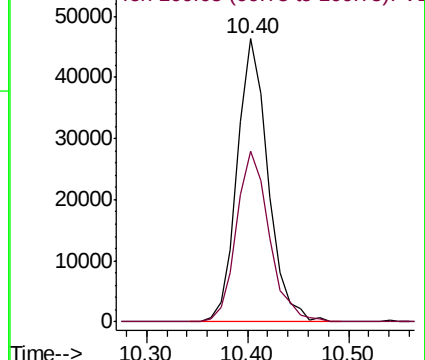
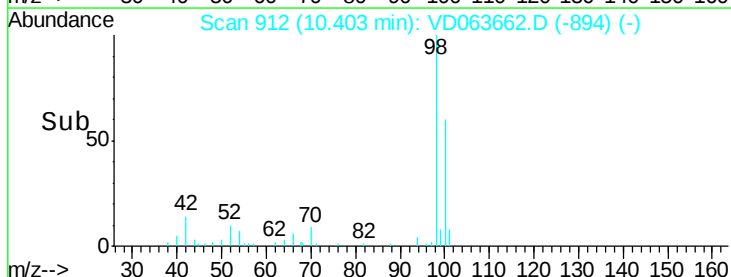
Ion Ratio Lower Upper

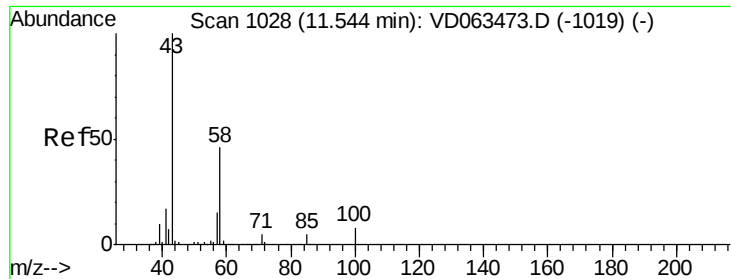
98 100

100 60.3 51.7 77.5



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

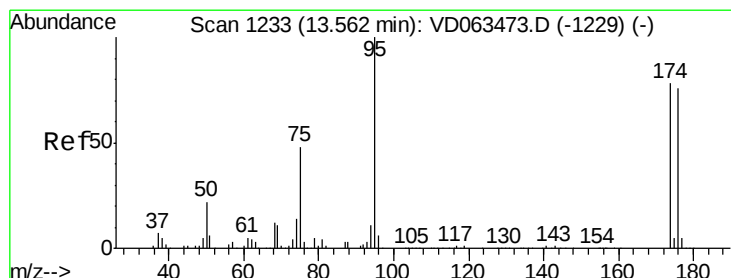
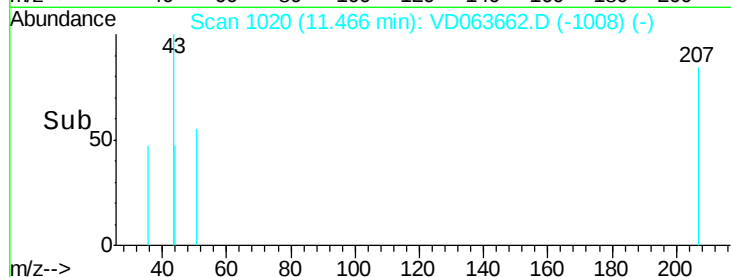
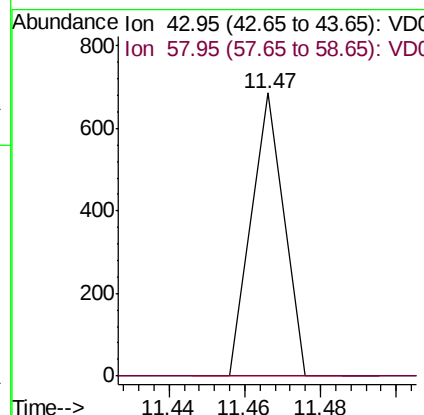
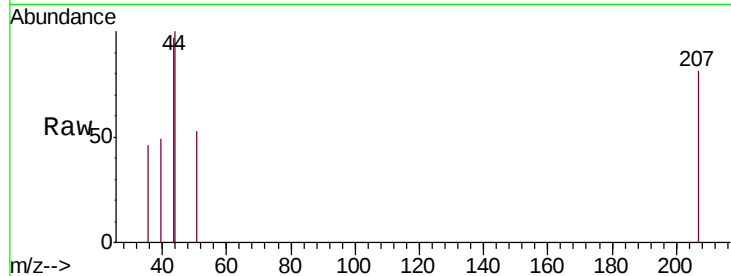




#59
2-Hexanone
Concen: 1.265 ug/l
RT: 11.47 min Scan# 1020
Delta R.T. -0.08 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

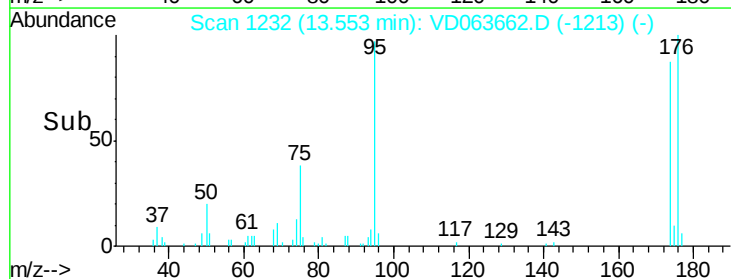
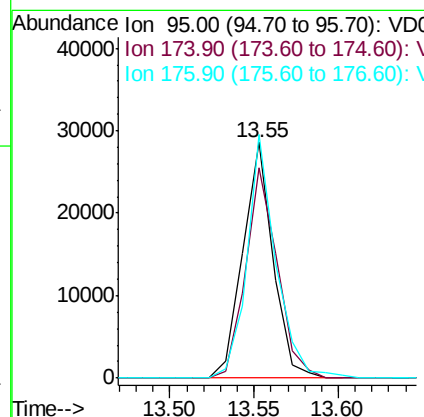
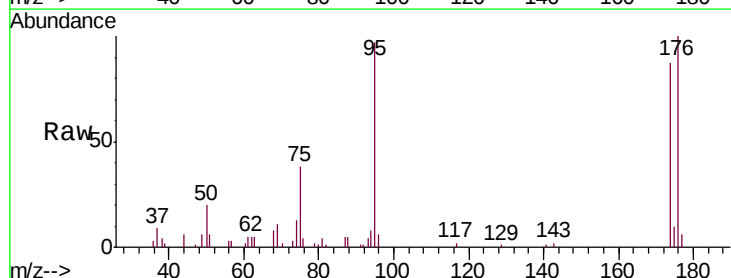
Instrument :
MSVOA_D
ClientSampleId :
T8-D-(2)

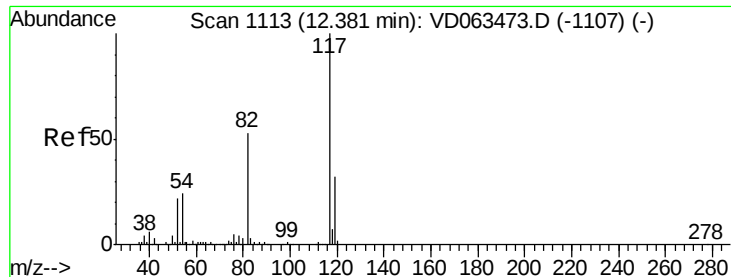
Tgt Ion: 43 Resp: 405
Ion Ratio Lower Upper
43 100
58 0.0 23.1 69.2#



#62
4-Bromofluorobenzene
Concen: 32.402 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063662.D
Acq: 19 Aug 2019 17:18

Tgt Ion: 95 Resp: 35249
Ion Ratio Lower Upper
95 100
174 89.4 0.0 155.4
176 103.2 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

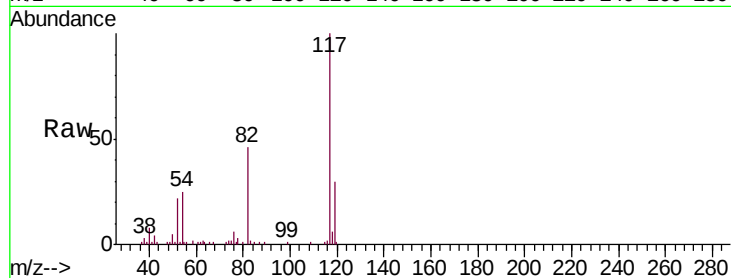
Tgt Ion:117 Resp: 87303

Ion Ratio Lower Upper

117 100

82 45.8 42.0 63.0

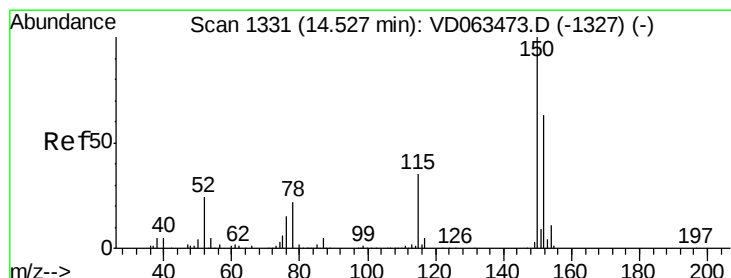
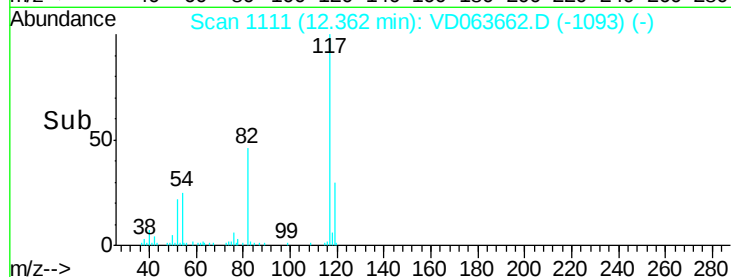
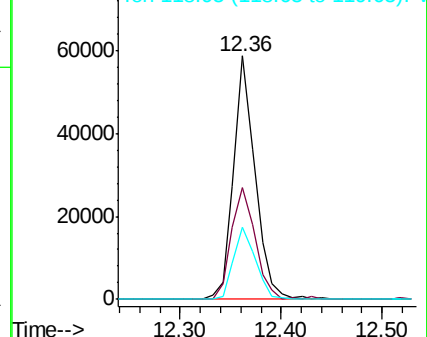
119 29.8 25.4 38.0



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: VD063662.D

Acq: 19 Aug 2019 17:18

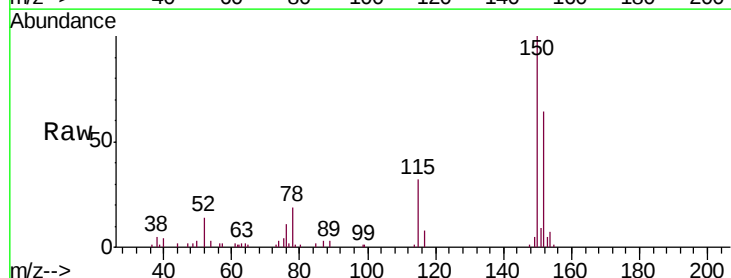
Tgt Ion:152 Resp: 30167

Ion Ratio Lower Upper

152 100

115 50.6 30.9 92.7

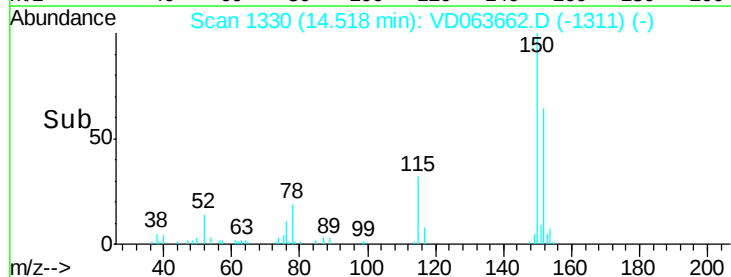
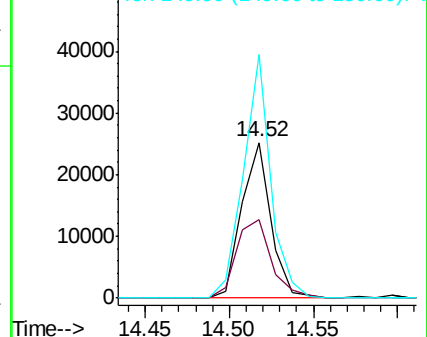
150 156.4 0.0 318.6

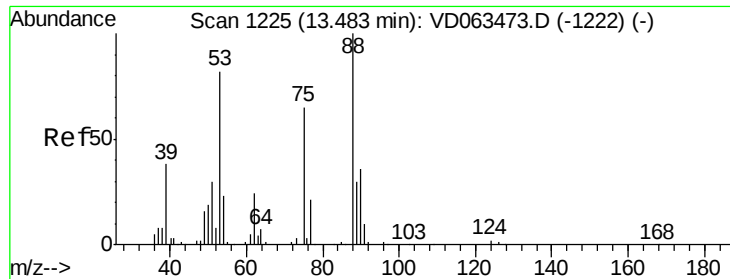


Abundance Ion 151.90 (151.60 to 152.60): V

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: 165.914 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

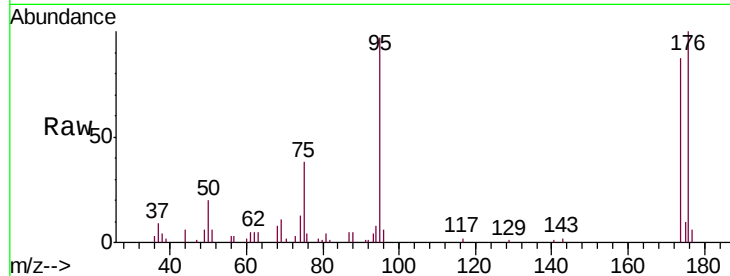
Tgt Ion: 75 Resp: 15439

Ion Ratio Lower Upper

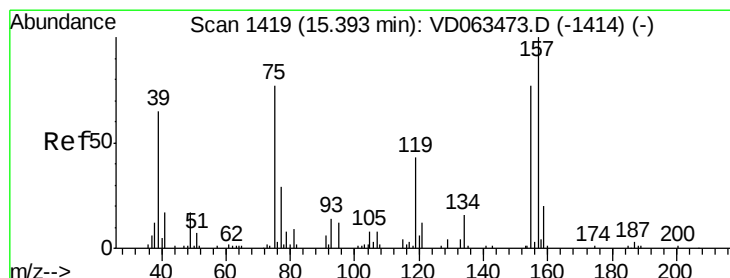
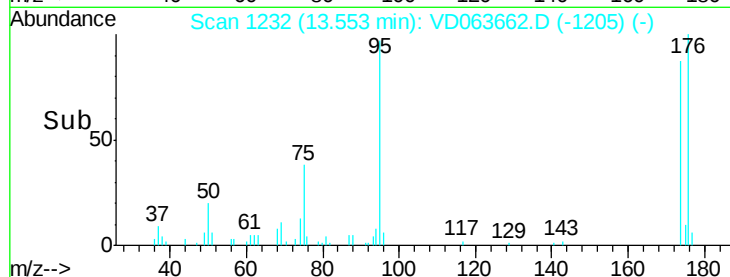
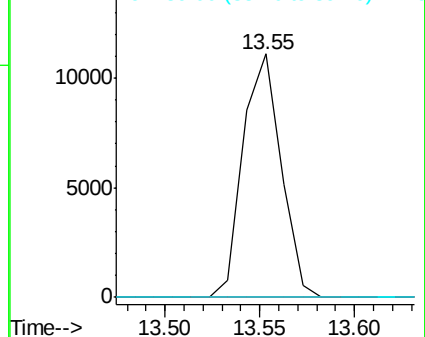
75 100

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.318 ug/l

RT: 15.28 min Scan# 1407

Delta R.T. -0.12 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

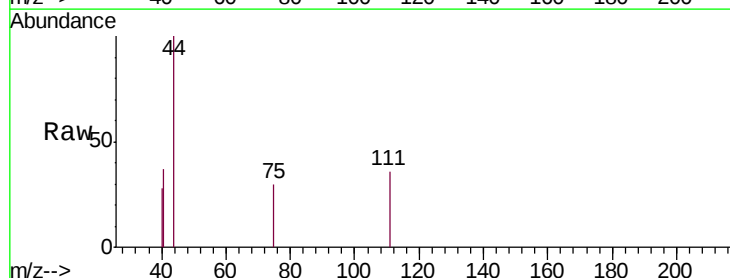
Tgt Ion: 75 Resp: 199

Ion Ratio Lower Upper

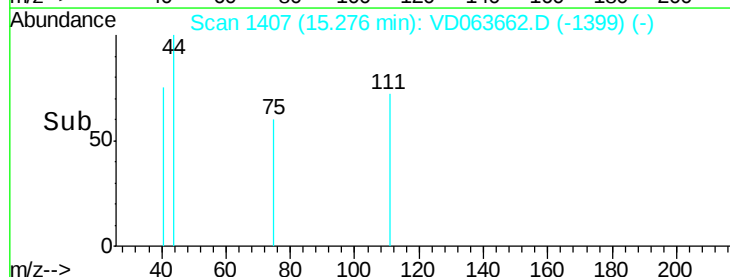
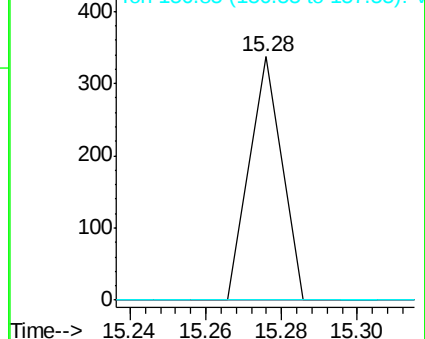
75 100

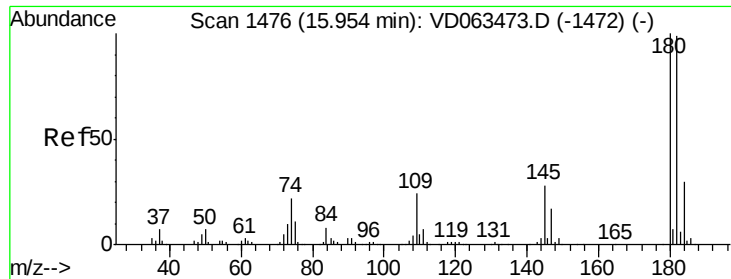
155 0.0 50.1 150.3#

157 0.0 65.0 195.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 154.90 (154.60 to 155.60): V
Ion 156.85 (156.55 to 157.55): V





#93

1,2,4-Trichlorobenzene

Concen: 1.187 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VD063662.D

Acq: 19 Aug 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(2)

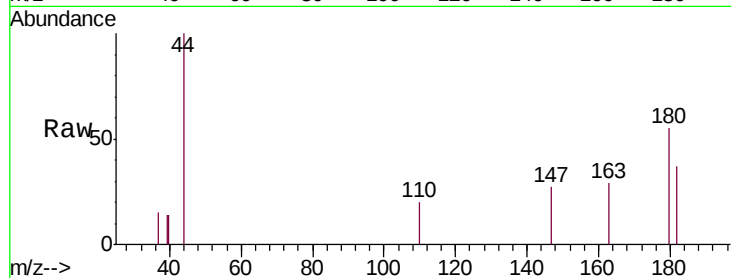
Tgt Ion:180 Resp: 703

Ion Ratio Lower Upper

180 100

182 66.8 49.7 149.1

145 0.0 14.1 42.2#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

