

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082019\
 Data File : VD063683.D
 Acq On : 20 Aug 2019 14:33
 Operator : JC/SY
 Sample : K4385-17RE
 Misc : 5.83g/5ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T8-D-(0)RE

Quant Time: Aug 21 03:50:44 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	89510	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.20	114	151781	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	105829	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	36745	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	80655	84.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	168.60%	
35) Dibromofluoromethane	6.90	113	74228	58.07	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	116.14%	
50) Toluene-d8	10.40	98	113438	40.36	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	80.72%	
62) 4-Bromofluorobenzene	13.55	95	39819	31.26	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	62.52%	

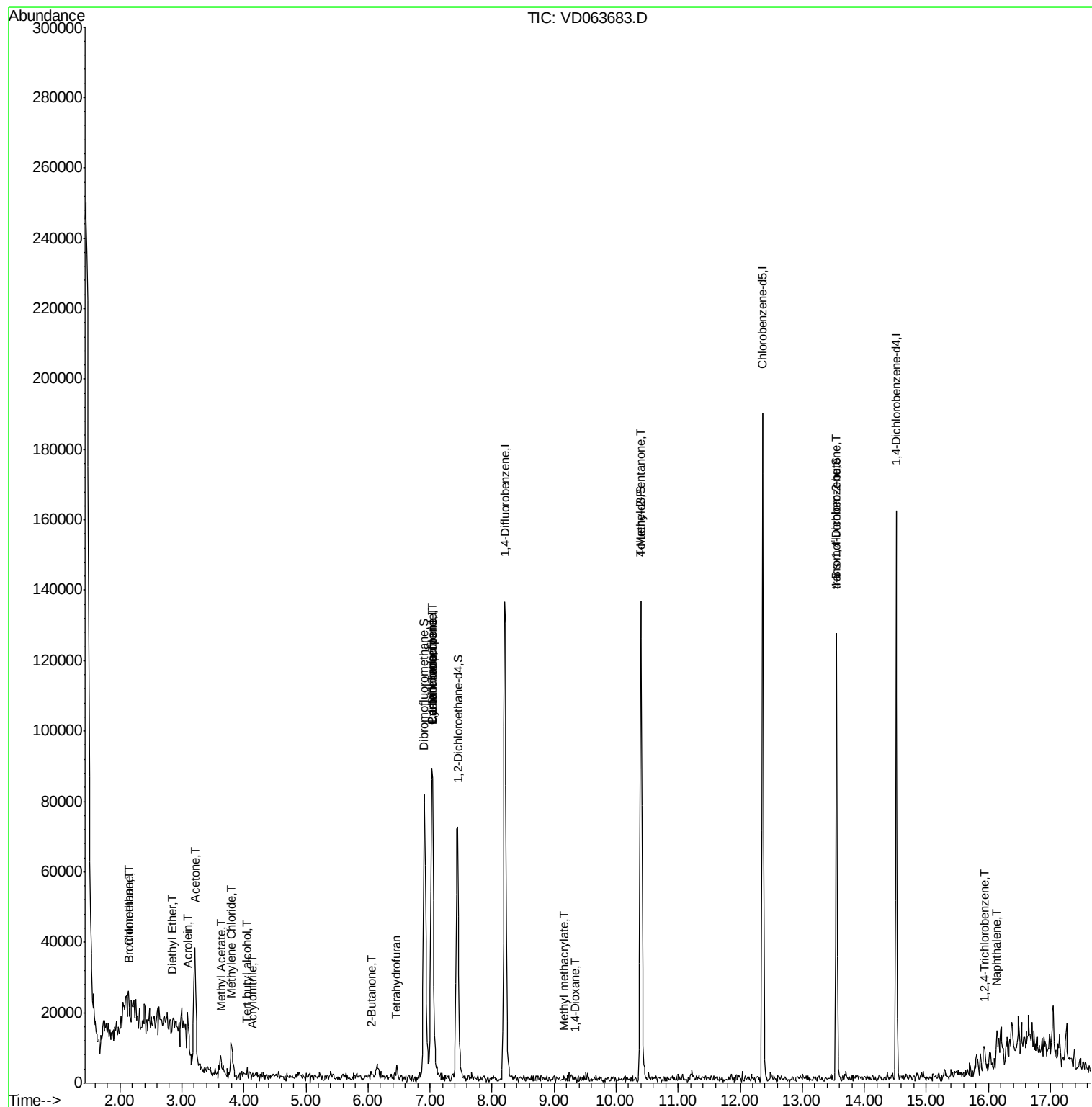
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	2992	7.549	ug/l #	11
6) Chloroethane	2.15	64	612	1.593	ug/l #	1
8) Diethyl Ether	2.85	74	510	2.193	ug/l	100
11) Tert butyl alcohol	4.04	59	1051	25.233	ug/l #	71
13) Acrolein	3.08	56	206	5.025	ug/l #	42
15) Acrylonitrile	4.14	53	196	1.777	ug/l #	11
16) Acetone	3.20	43	70593	362.951	ug/l #	92
18) Methyl Acetate	3.63	43	9487	25.752	ug/l #	57
20) Methylene Chloride	3.79	84	5269	6.265	ug/l #	73
25) 2-Butanone	6.05	43	2567	13.363	ug/l #	58
29) Tetrahydrofuran	6.46	42	2493	27.852	ug/l #	82
31) Cyclohexane	7.02	56	1755	2.031	ug/l	94
36) 1,1-Dichloropropene	7.04	75	7071	5.270	ug/l #	52
38) Carbon Tetrachloride	7.02	117	9170	4.535	ug/l #	13
48) Methyl methacrylate	9.16	41	545	1.067	ug/l #	18
49) 1,4-Dioxane	9.35	88	197	66.870	ug/l #	34
51) 4-Methyl-2-Pentanone	10.41	43	906	1.758	ug/l #	40
81) trans-1,4-Dichloro-2-buten	13.55	75	17895	157.881	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	842	1.167	ug/l #	46
95) Naphthalene	16.13	128	1994	1.824	ug/l #	71

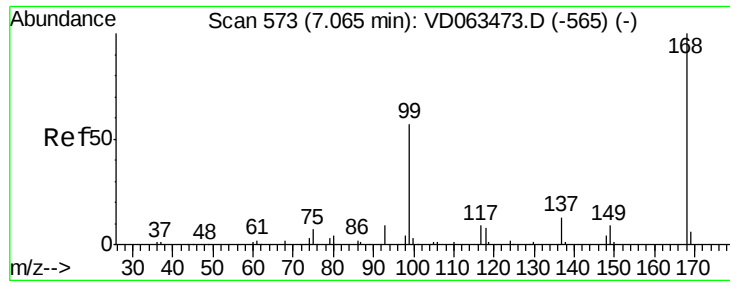
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

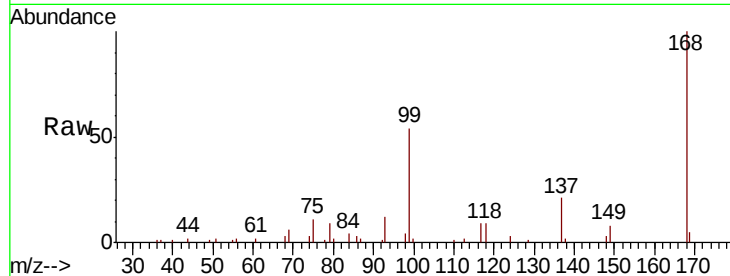
T8-D-(0)RE

Tgt Ion:168 Resp: 89510

Ion Ratio Lower Upper

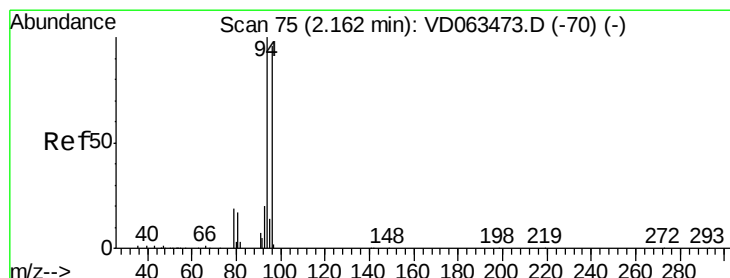
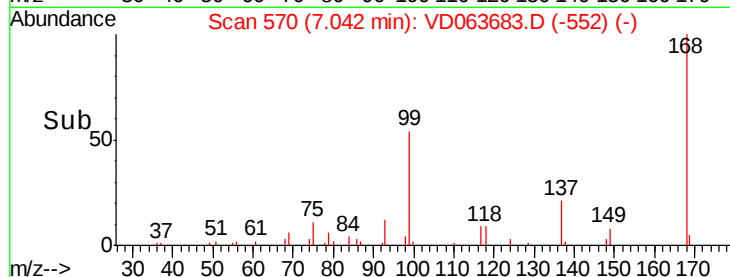
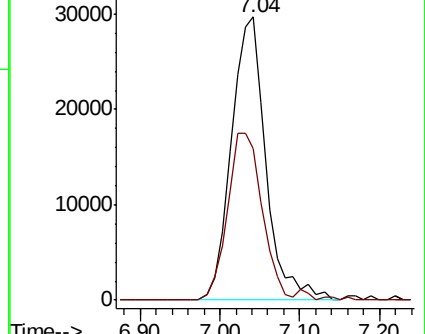
168 100

99 53.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 7.549 ug/l

RT: 2.16 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

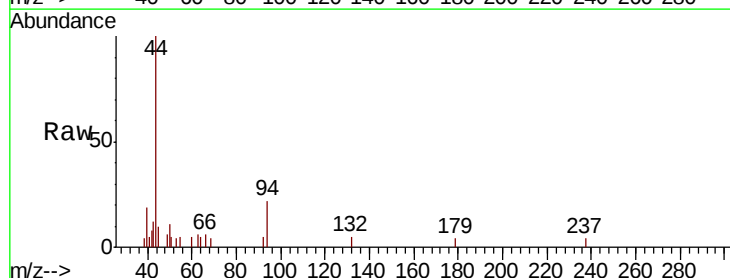
Tgt Ion: 94 Resp: 2992

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

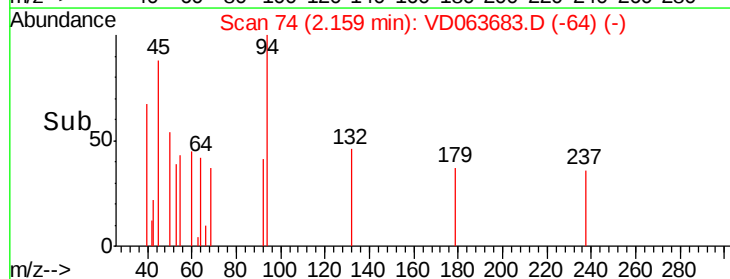
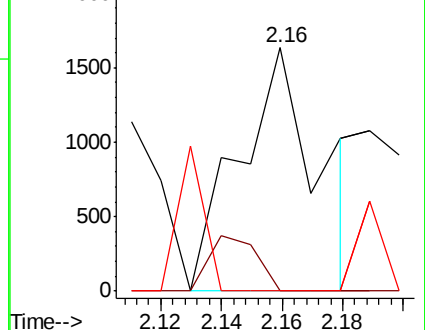
93 0.0 15.8 23.8#

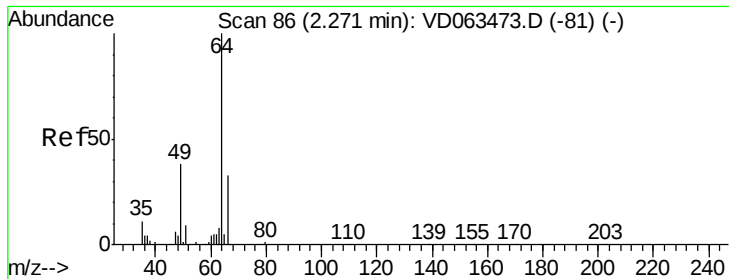


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 1.593 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.12 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

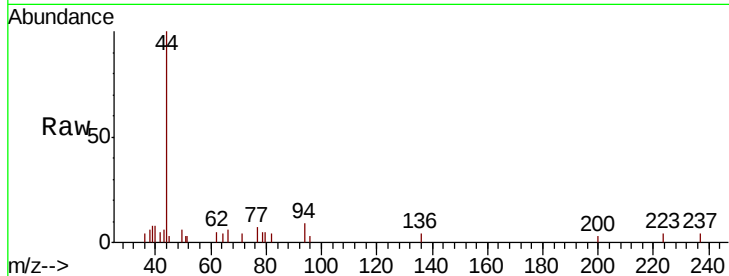
T8-D-(0)RE

Tgt Ion: 64 Resp: 612

Ion Ratio Lower Upper

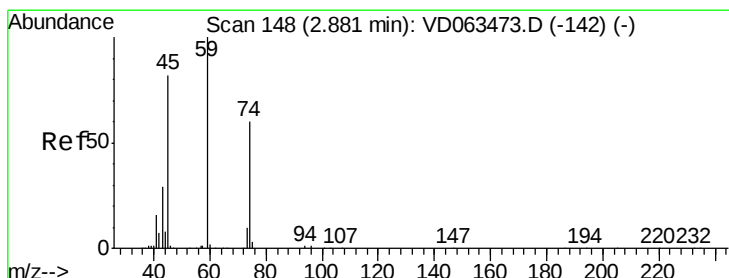
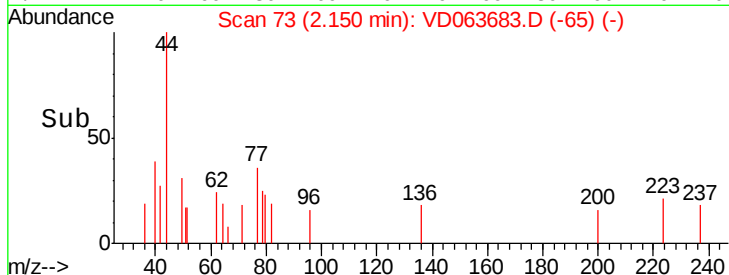
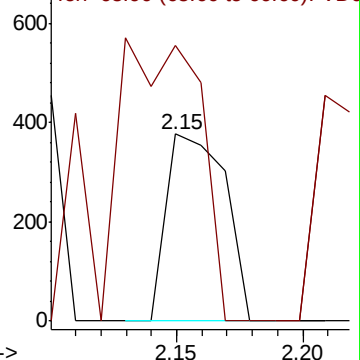
64 100

66 147.2 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 2.193 ug/l

RT: 2.85 min Scan# 144

Delta R.T. -0.03 min

Lab File: VD063683.D

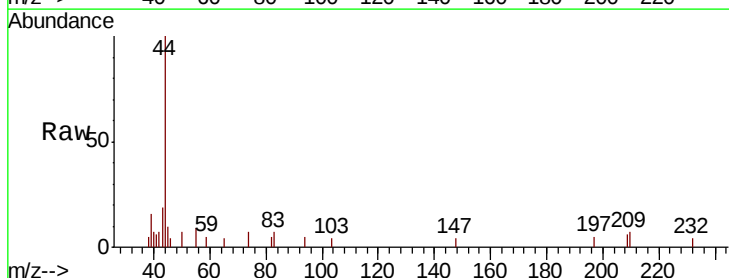
Acq: 20 Aug 2019 14:33

Tgt Ion: 74 Resp: 510

Ion Ratio Lower Upper

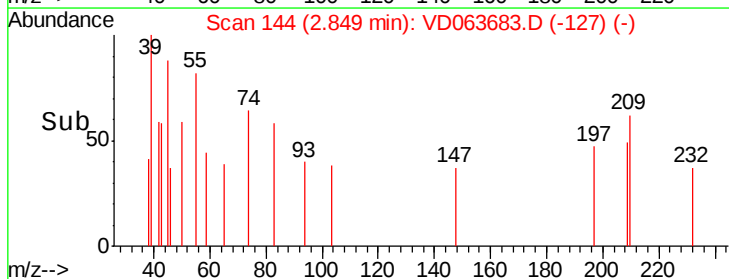
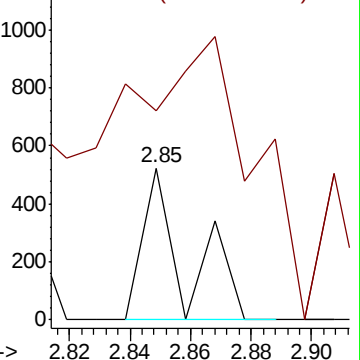
74 100

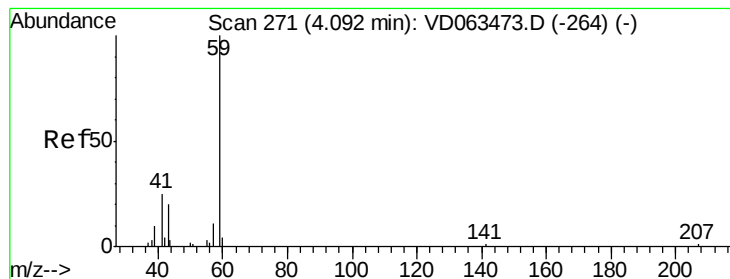
45 137.5 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#11

Tert butyl alcohol

Concen: 25.233 ug/l

RT: 4.04 min Scan# 265

Delta R.T. -0.05 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

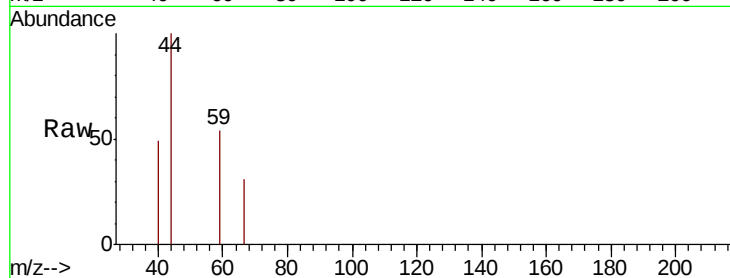
T8-D-(0)RE

Tgt Ion: 59 Resp: 1051

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.04

500

400

300

200

100

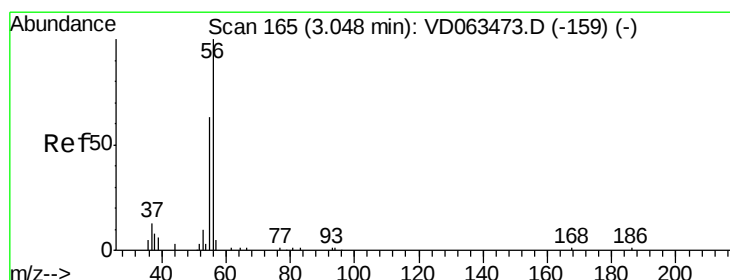
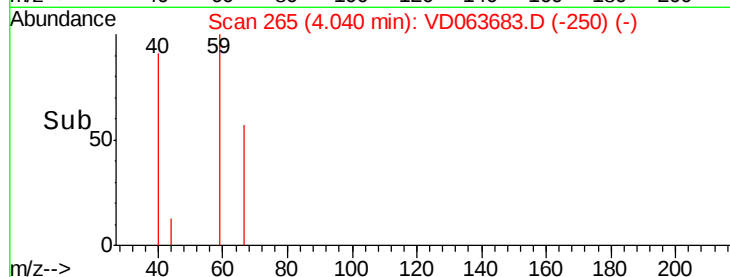
0

Time-->

4.00

4.05

4.10



#13

Acrolein

Concen: 5.025 ug/l

RT: 3.08 min Scan# 168

Delta R.T. 0.04 min

Lab File: VD063683.D

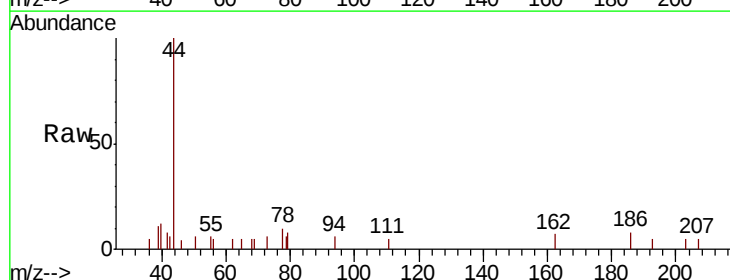
Acq: 20 Aug 2019 14:33

Tgt Ion: 56 Resp: 206

Ion Ratio Lower Upper

56 100

55 109.5 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

600

500

400

300

200

100

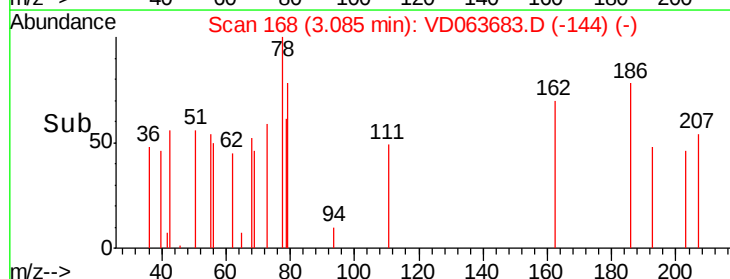
0

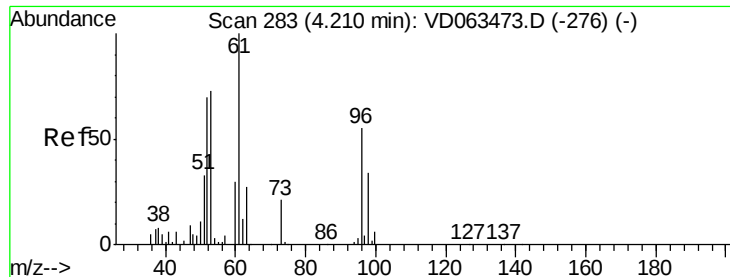
Time-->

3.06

3.08

3.10





#15

Acrylonitrile

Concen: 1.777 ug/l

RT: 4.14 min Scan# 275

Delta R.T. -0.07 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(0)RE

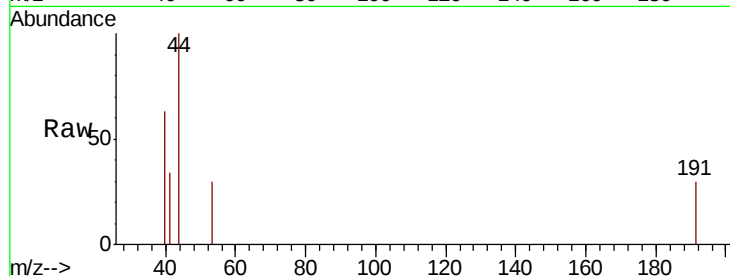
Tgt Ion: 53 Resp: 196

Ion Ratio Lower Upper

53 100

52 0.0 77.4 116.0#

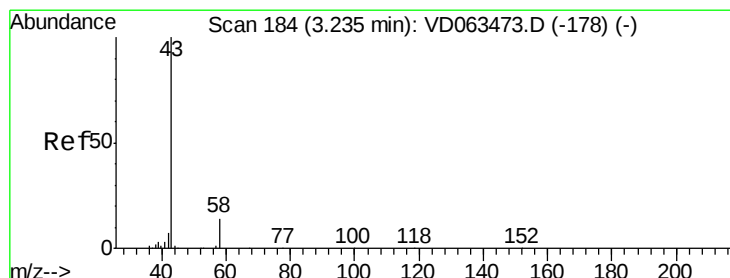
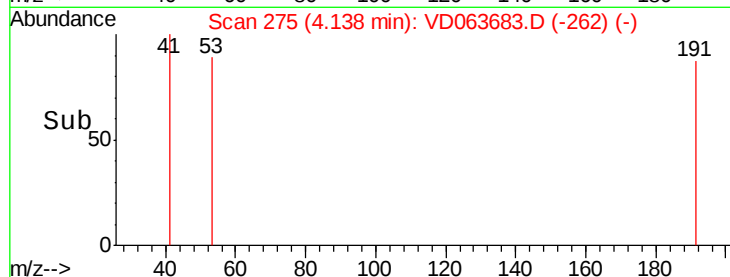
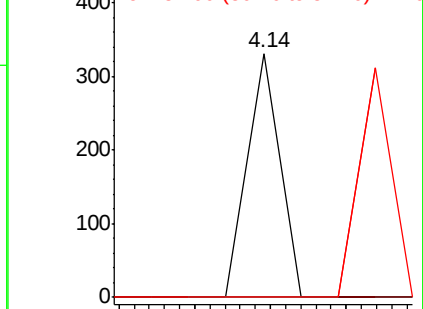
51 0.0 36.7 55.1#



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: 362.951 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.03 min

Lab File: VD063683.D

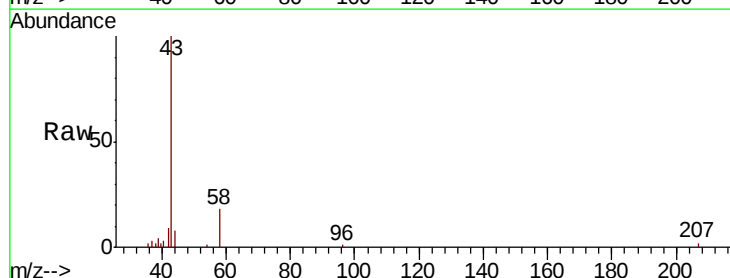
Acq: 20 Aug 2019 14:33

Tgt Ion: 43 Resp: 70593

Ion Ratio Lower Upper

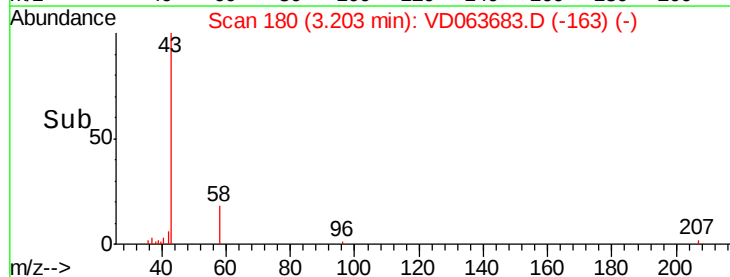
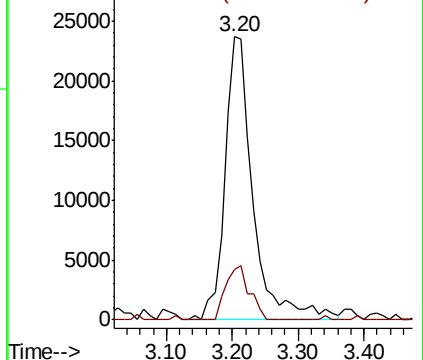
43 100

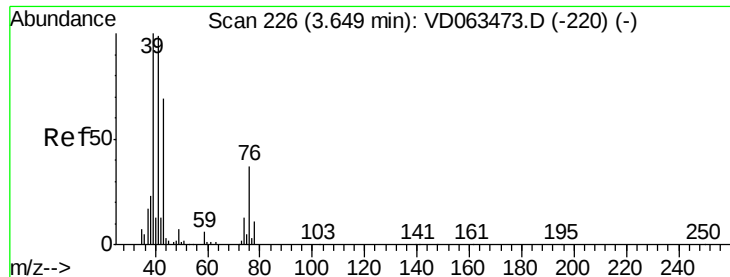
58 17.8 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

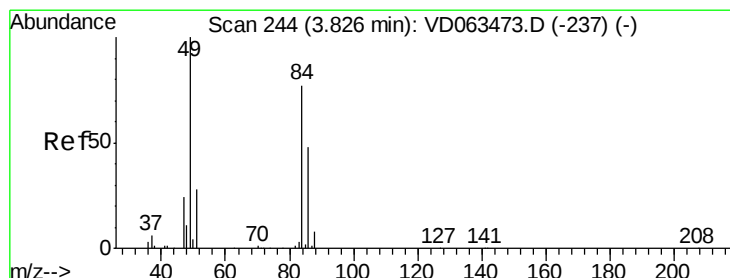
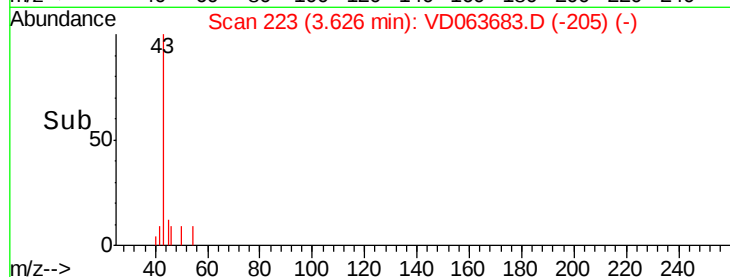
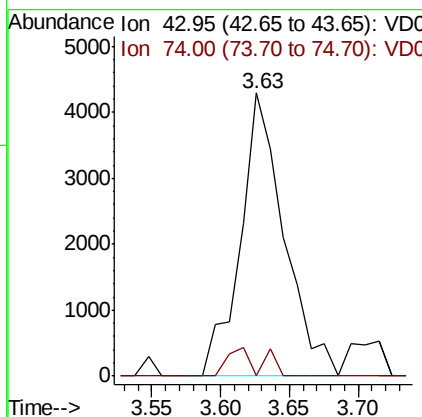
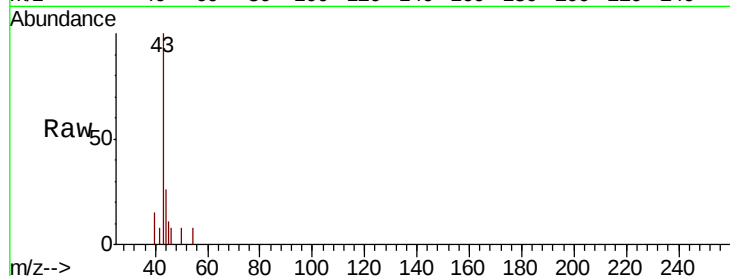




#18
Methyl Acetate
Concen: 25.752 ug/l
RT: 3.63 min Scan# 223
Delta R.T. -0.02 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

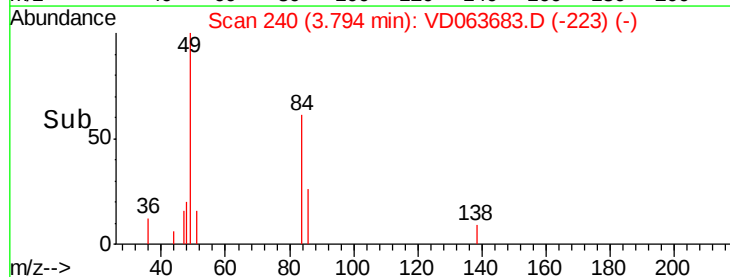
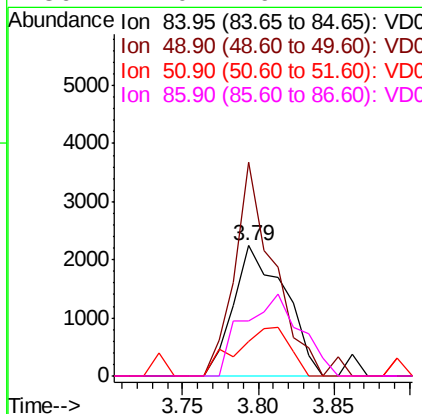
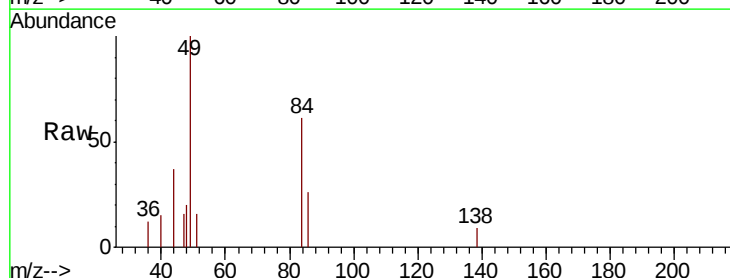
Instrument :
MSVOA_D
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T8-D-(0)RE

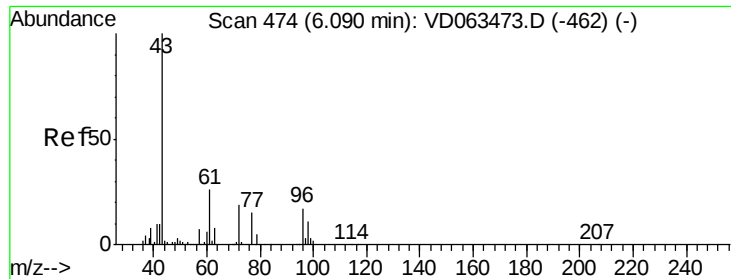
Tgt Ion: 43 Resp: 9487
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 6.265 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.03 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

Tgt Ion: 84 Resp: 5269
Ion Ratio Lower Upper
84 100
49 164.1 103.4 155.2#
51 26.2 28.5 42.7#
86 42.0 49.4 74.2#





#25

2-Butanone

Concen: 13.363 ug/l

RT: 6.05 min Scan# 469

Delta R.T. -0.04 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

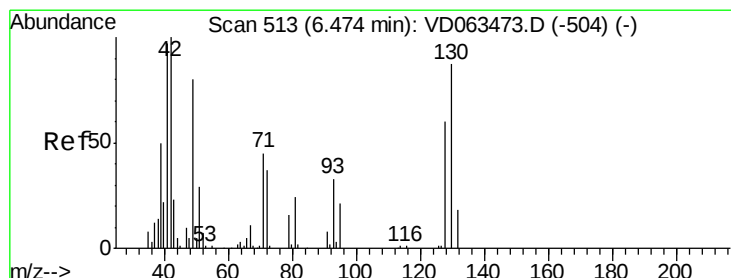
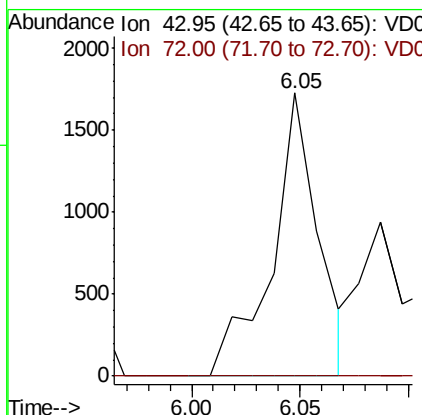
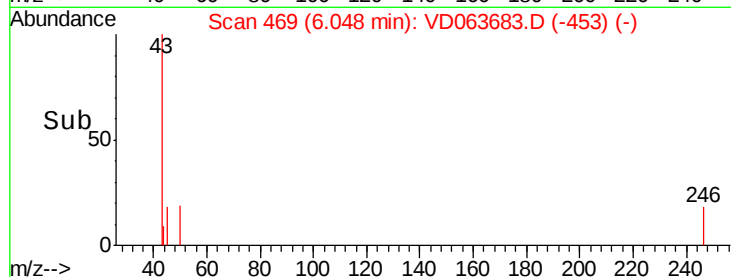
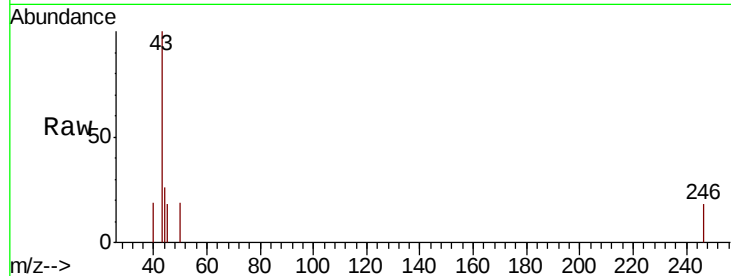
T8-D-(0)RE

Tgt Ion: 43 Resp: 2567

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



#29

Tetrahydrofuran

Concen: 27.852 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

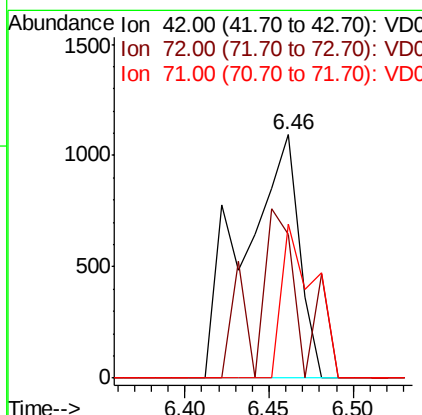
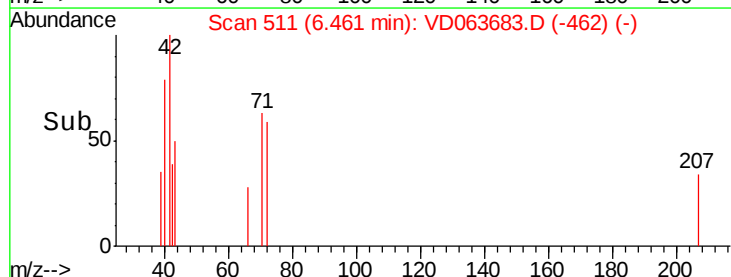
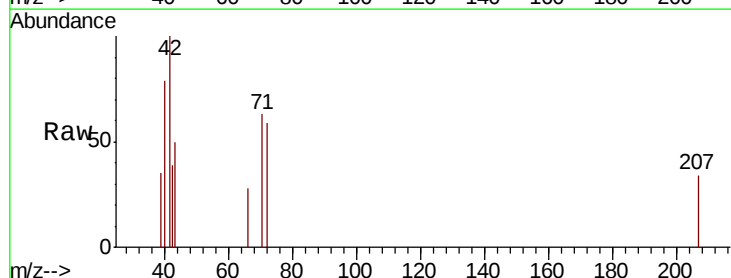
Tgt Ion: 42 Resp: 2493

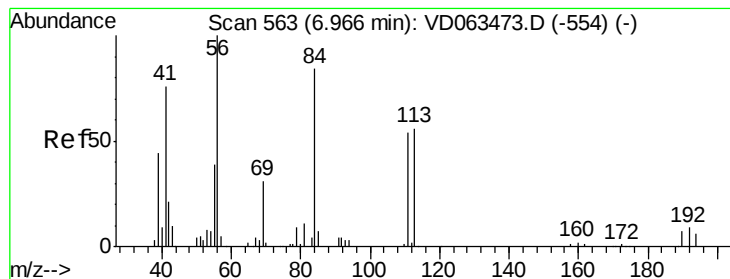
Ion Ratio Lower Upper

42 100

72 56.8 31.5 47.3#

71 36.9 33.8 50.8





#31

Cyclohexane

Concen: 2.031 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.06 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(0)RE

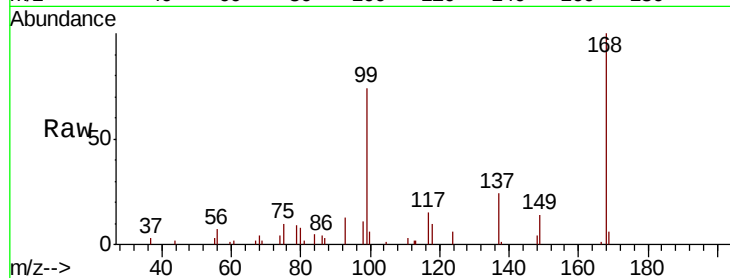
Tgt Ion: 56 Resp: 1755

Ion Ratio Lower Upper

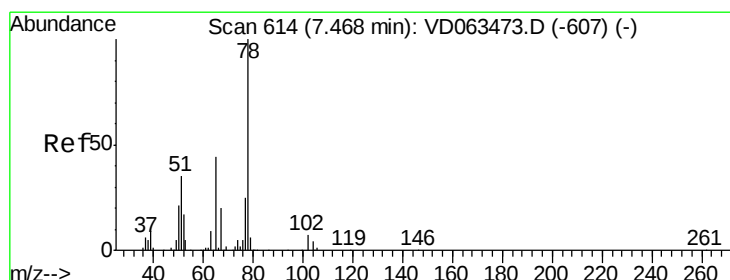
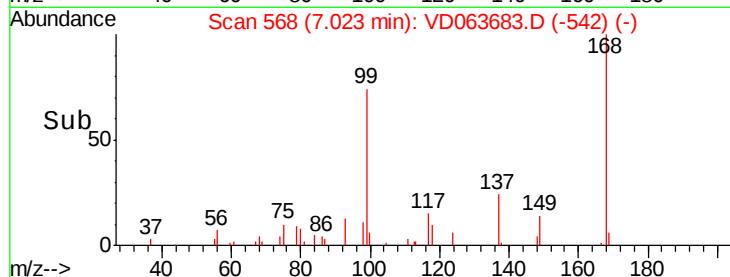
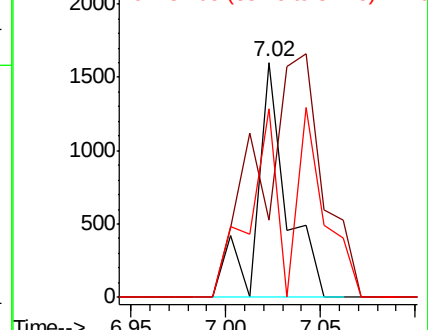
56 100

69 32.9 25.0 37.6

84 80.1 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: 84.297 ug/l

RT: 7.45 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD063683.D

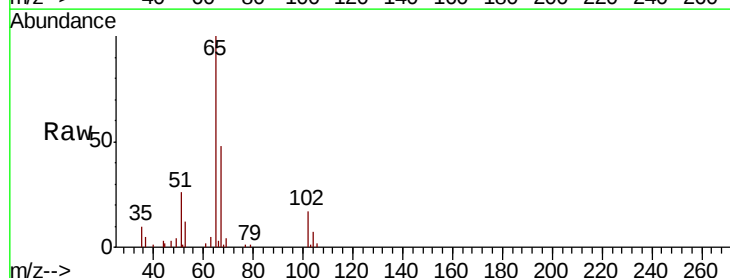
Acq: 20 Aug 2019 14:33

Tgt Ion: 65 Resp: 80655

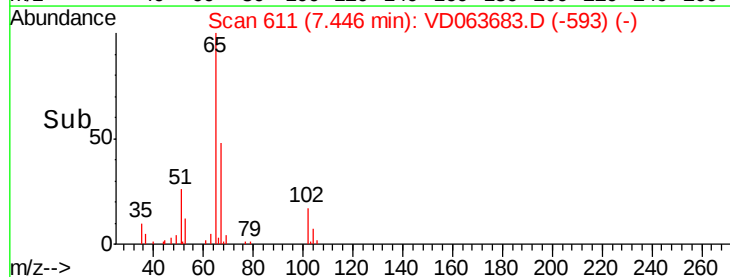
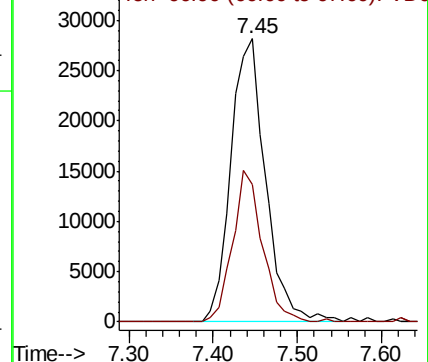
Ion Ratio Lower Upper

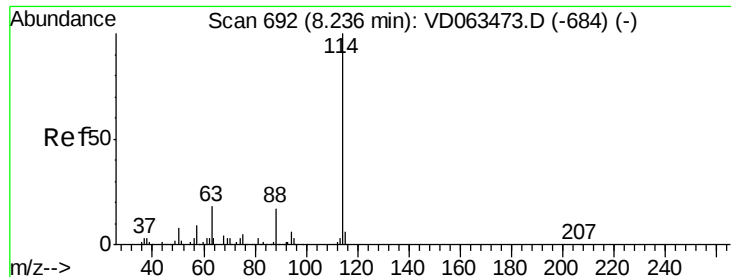
65 100

67 48.4 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: 8.20 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(0)RE

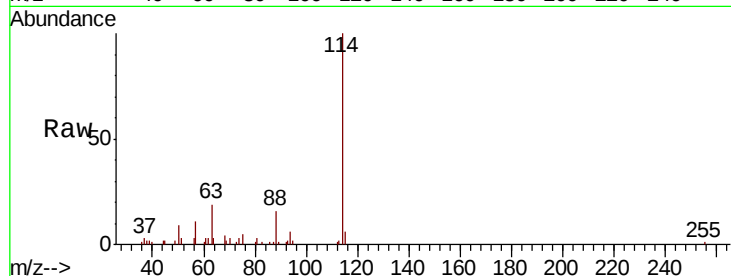
Tgt Ion:114 Resp: 151781

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.2

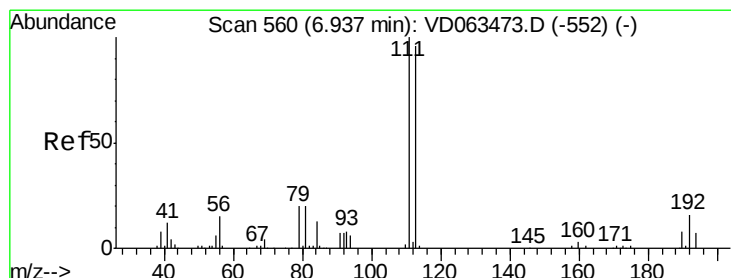
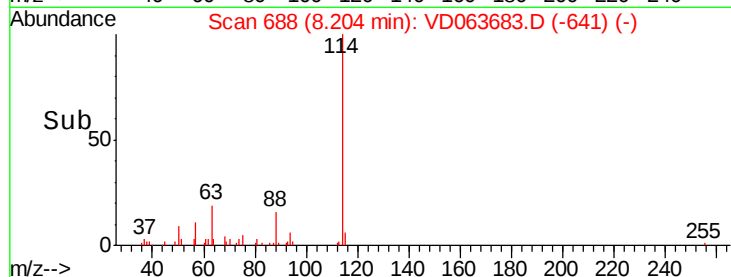
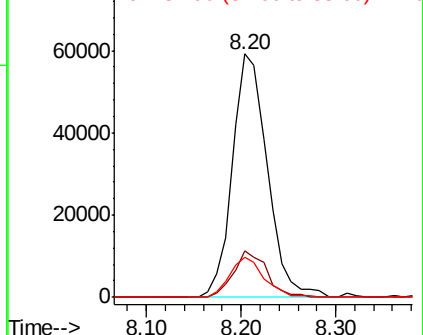
88 16.4 0.0 35.0



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: 58.067 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

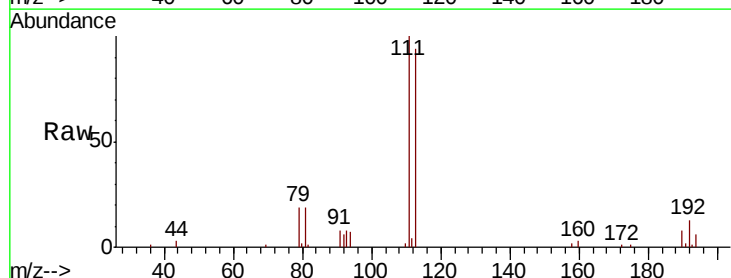
Tgt Ion:113 Resp: 74228

Ion Ratio Lower Upper

113 100

111 106.6 83.1 124.7

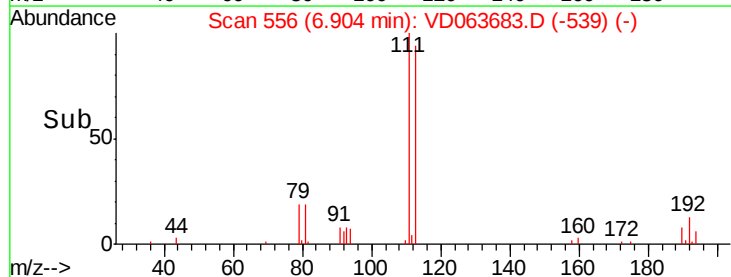
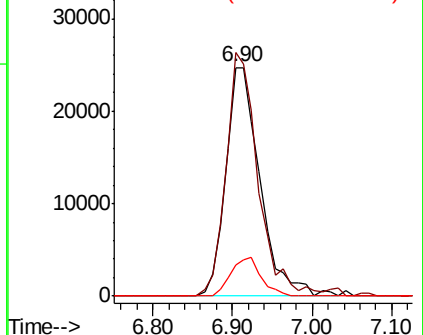
192 13.5 13.1 19.7

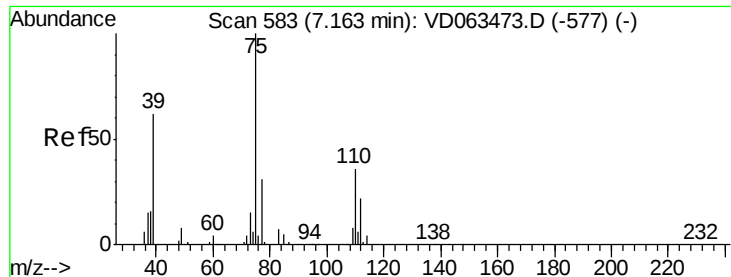


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

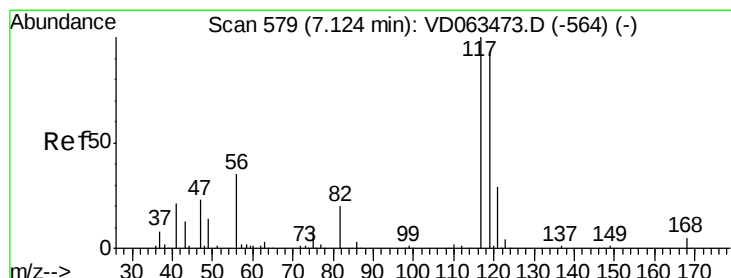
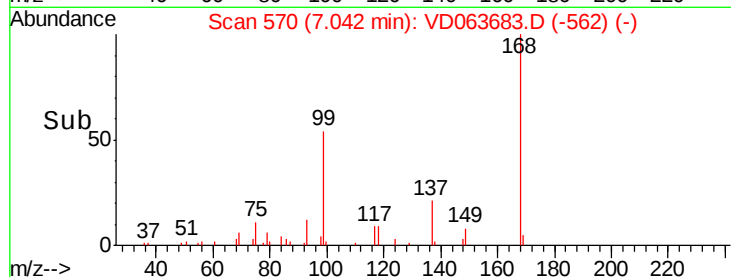
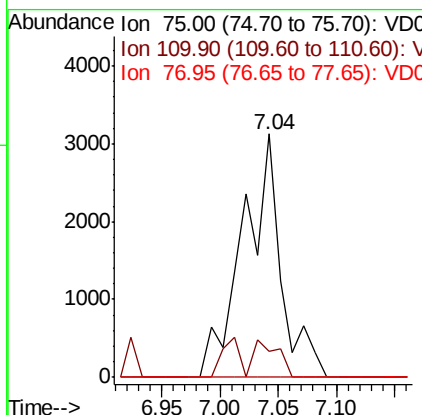
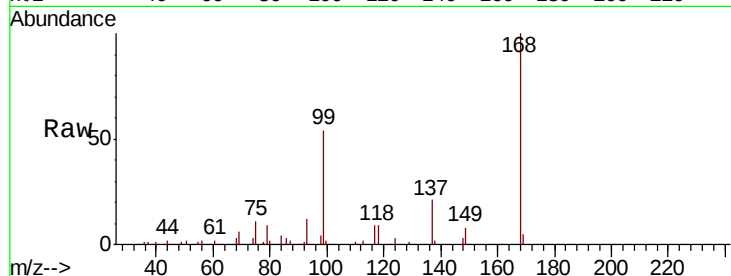




#36
 1,1-Dichloropropene
 Concen: 5.270 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.12 min
 Lab File: VD063683.D
 Acq: 20 Aug 2019 14:33

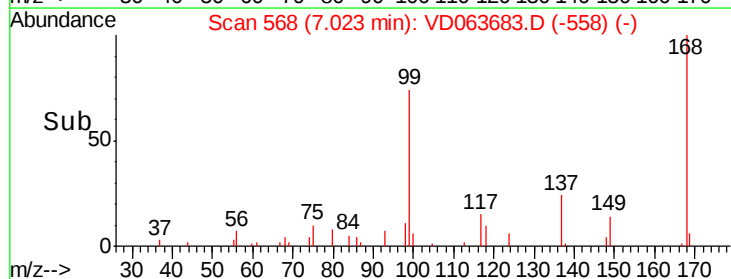
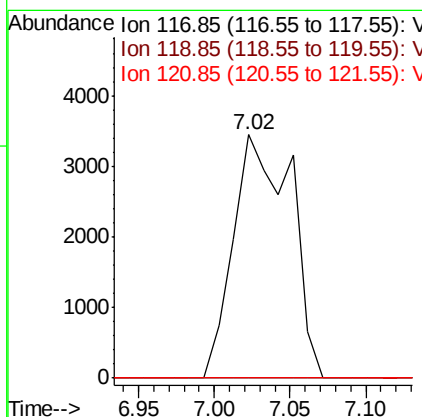
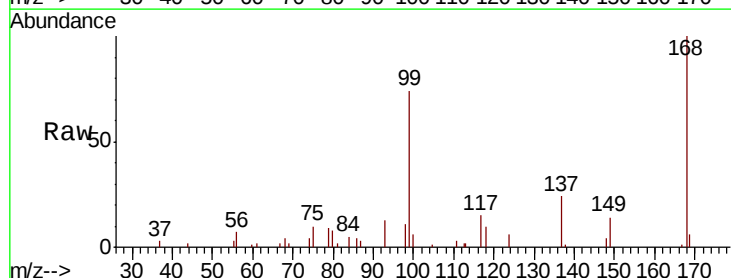
Instrument :
 MSVOA_D
 ClientSampleId :
 T8-D-(0)RE

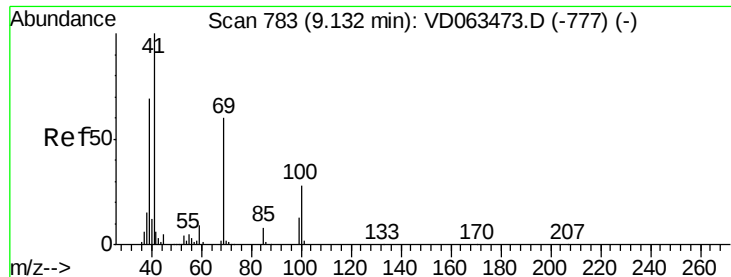
Tgt Ion: 75 Resp: 7071
 Ion Ratio Lower Upper
 75 100
 110 10.8 17.6 52.8#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 4.535 ug/l
 RT: 7.02 min Scan# 568
 Delta R.T. -0.10 min
 Lab File: VD063683.D
 Acq: 20 Aug 2019 14:33

Tgt Ion: 117 Resp: 9170
 Ion Ratio Lower Upper
 117 100
 119 0.0 74.2 111.2#
 121 0.0 23.1 34.7#

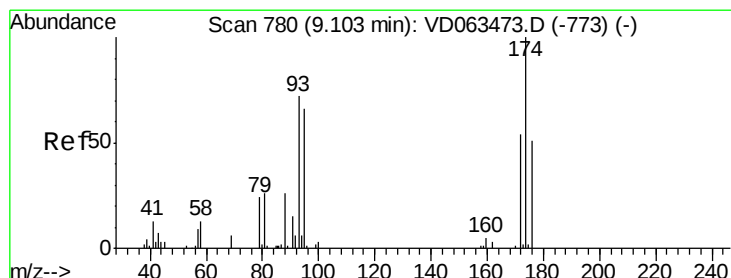
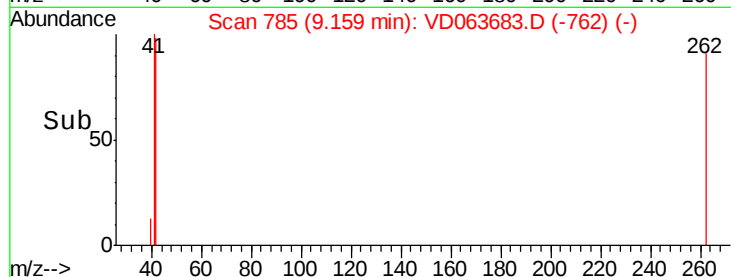
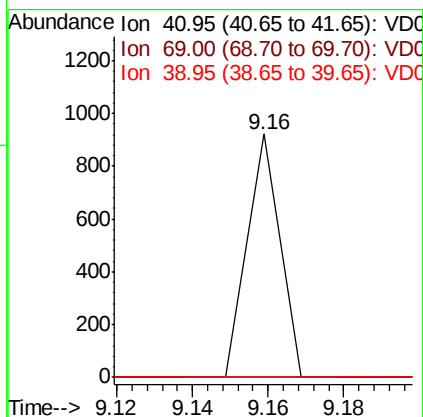
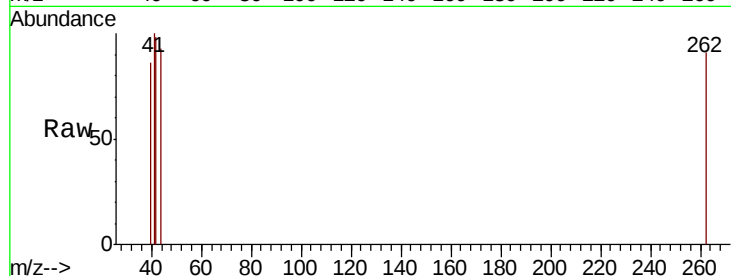




#48
Methyl methacrylate
Concen: 1.067 ug/l
RT: 9.16 min Scan# 785
Delta R.T. 0.03 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

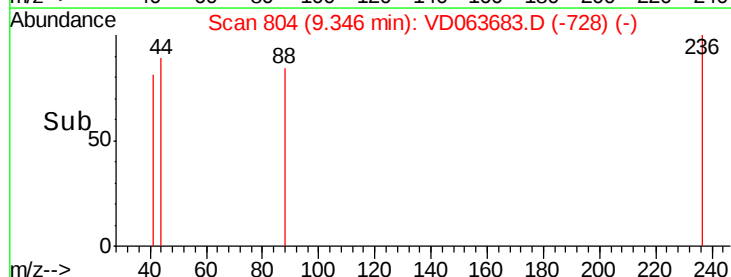
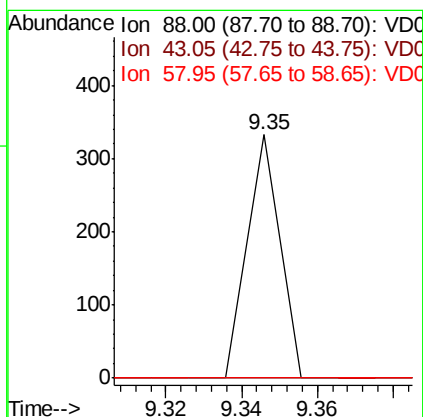
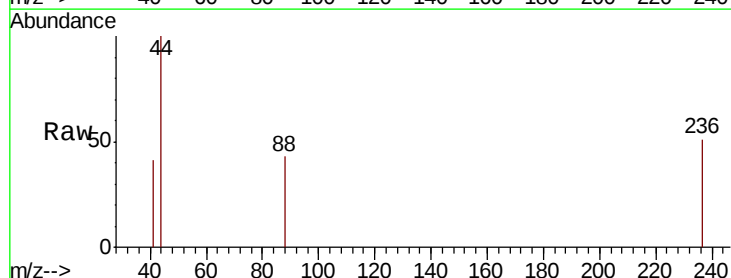
Instrument :
MSVOA_D
ClientSampleId :
T8-D-(0)RE

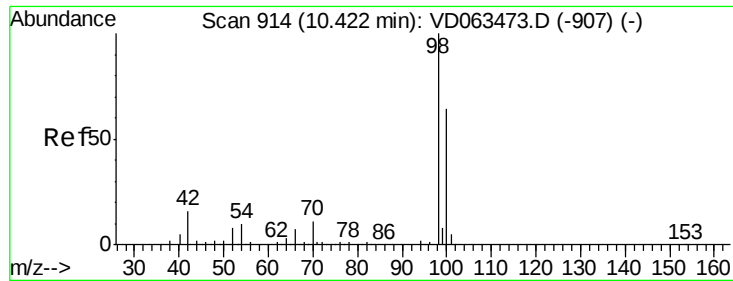
Tgt Ion: 41 Resp: 545
Ion Ratio Lower Upper
41 100
69 0.0 47.6 71.4#
39 0.0 55.7 83.5#



#49
1,4-Dioxane
Concen: 66.870 ug/l
RT: 9.35 min Scan# 804
Delta R.T. 0.24 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

Tgt Ion: 88 Resp: 197
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 40.1 60.1#

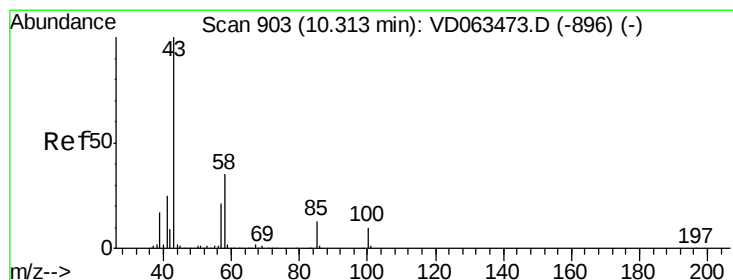
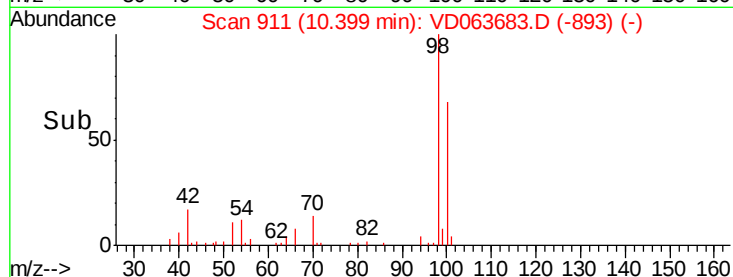
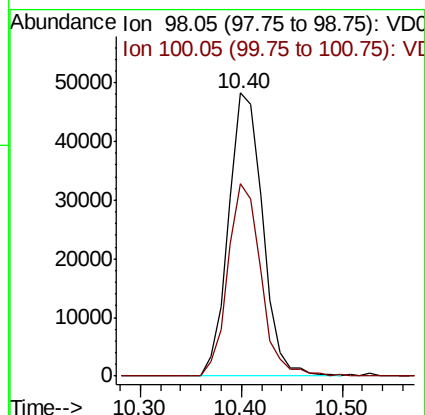
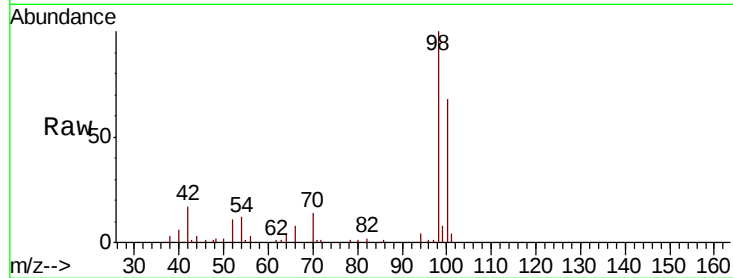




#50
Toluene-d8
Concen: 40.363 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.02 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

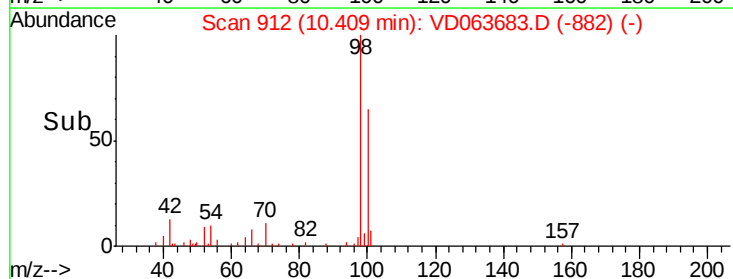
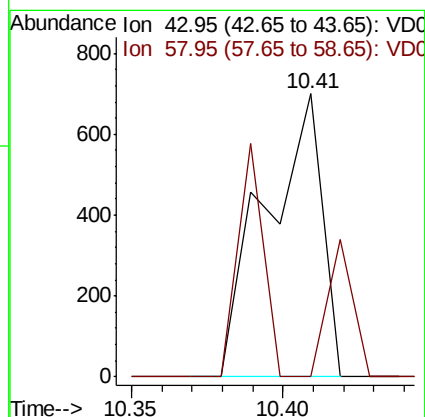
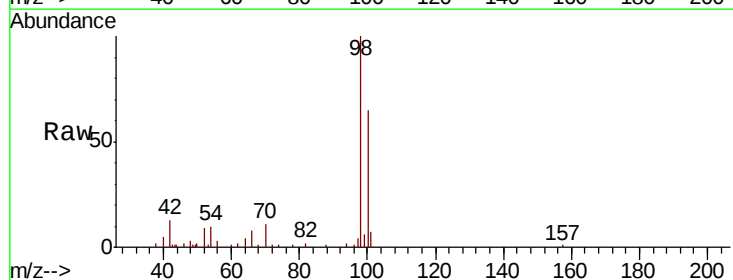
Instrument :
MSVOA_D
ClientSampled :
T8-D-(0)RE

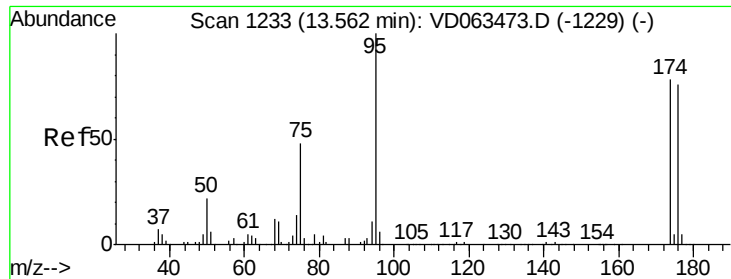
Tgt Ion: 98 Resp: 113438
Ion Ratio Lower Upper
98 100
100 68.2 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.758 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.10 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

Tgt Ion: 43 Resp: 906
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#





#62

4-Bromofluorobenzene

Concen: 31.260 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

T8-D-(0)RE

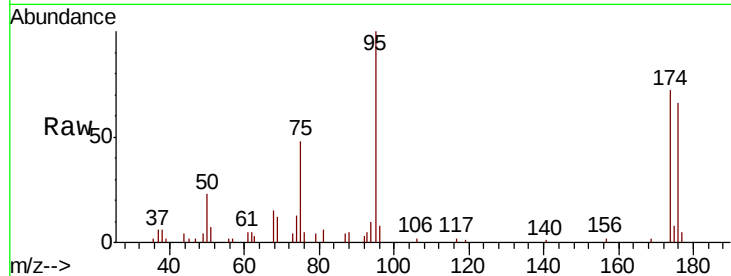
Tgt Ion: 95 Resp: 39819

Ion Ratio Lower Upper

95 100

174 71.8 0.0 155.4

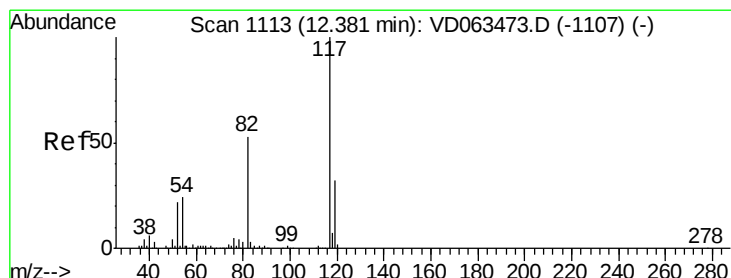
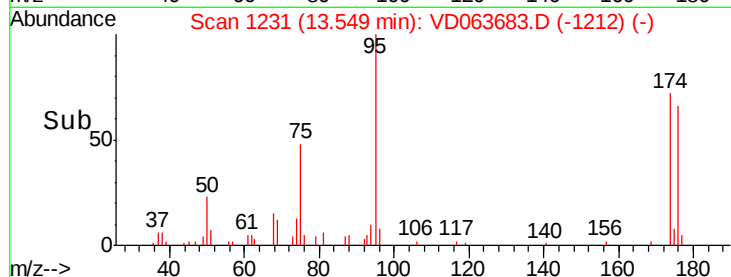
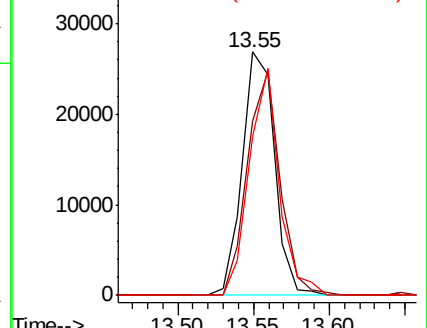
176 65.5 0.0 152.4



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# 1110

Delta R.T. -0.02 min

Lab File: VD063683.D

Acq: 20 Aug 2019 14:33

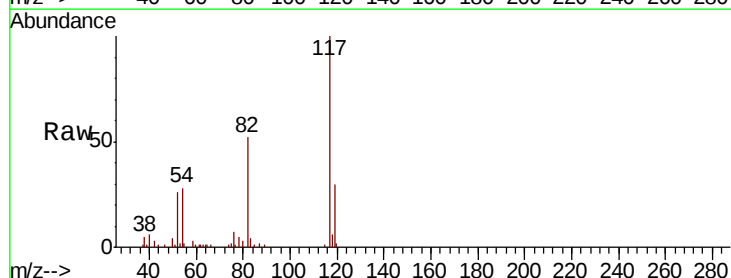
Tgt Ion: 117 Resp: 105829

Ion Ratio Lower Upper

117 100

82 51.6 42.0 63.0

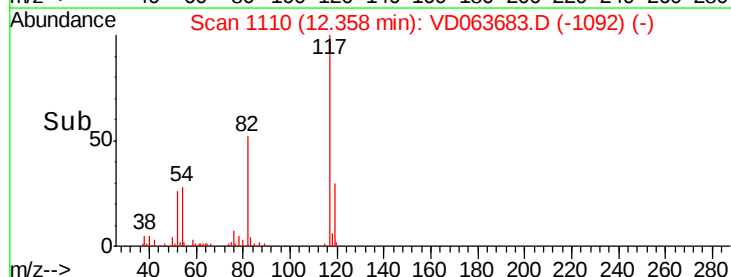
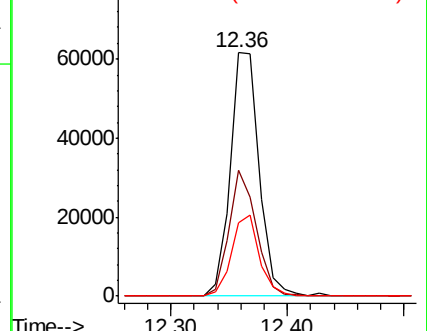
119 30.4 25.4 38.0

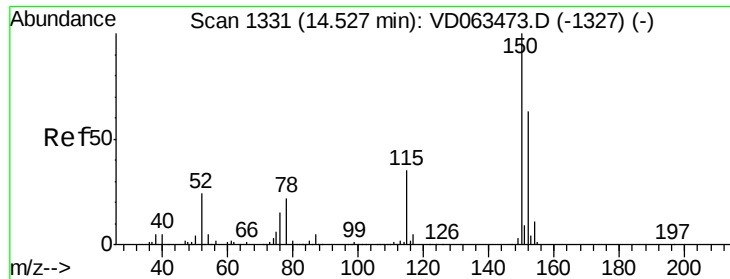


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



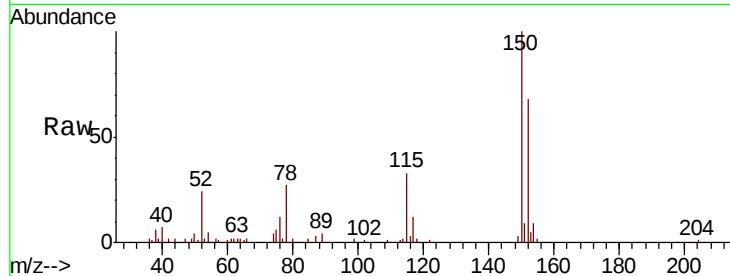


#72

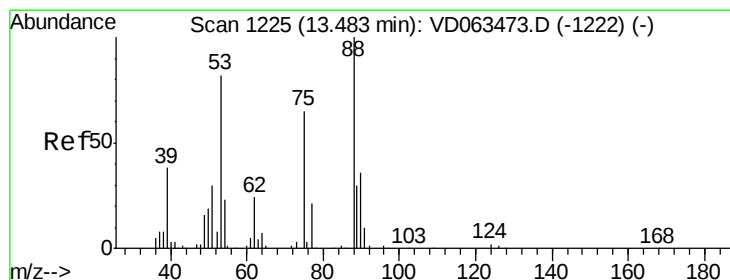
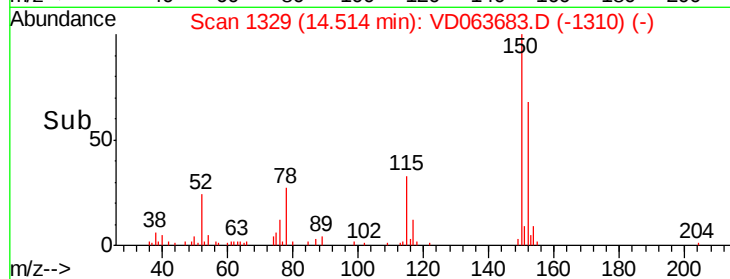
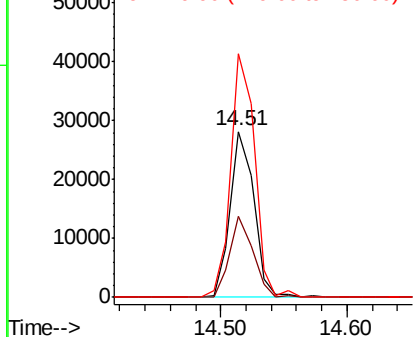
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

Instrument :
MSVOA_D
ClientSampleId :
T8-D-(0)RE

Tgt Ion:152 Resp: 36745
Ion Ratio Lower Upper
152 100
115 48.8 30.9 92.7
150 146.7 0.0 318.6



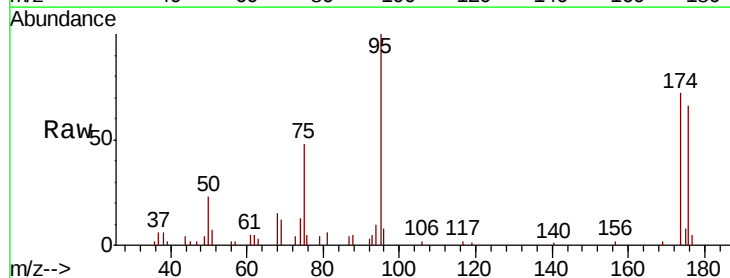
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



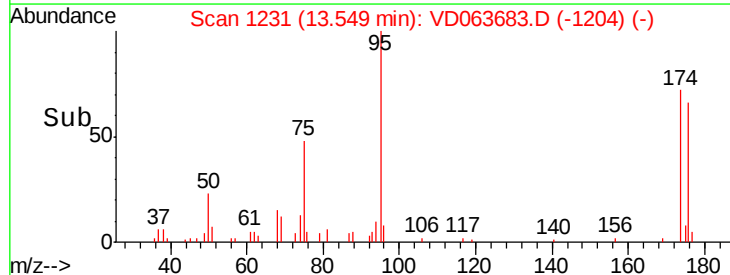
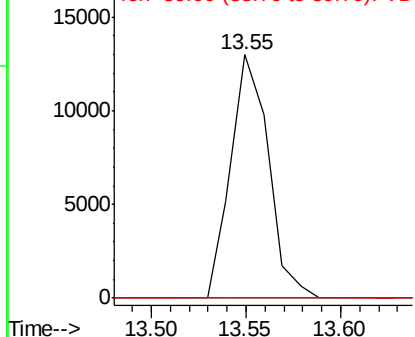
#81

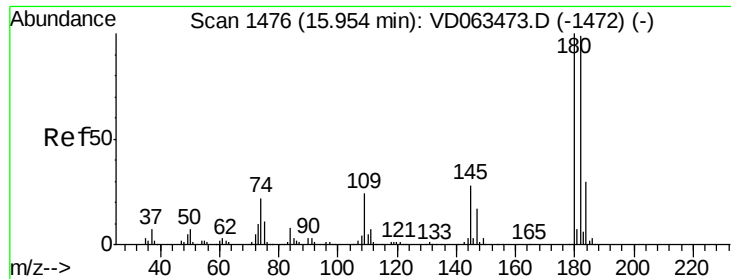
trans-1,4-Dichloro-2-butene
Concen: 157.881 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.07 min
Lab File: VD063683.D
Acq: 20 Aug 2019 14:33

Tgt Ion: 75 Resp: 17895
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

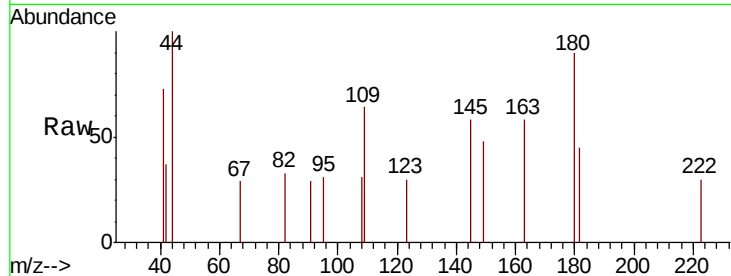




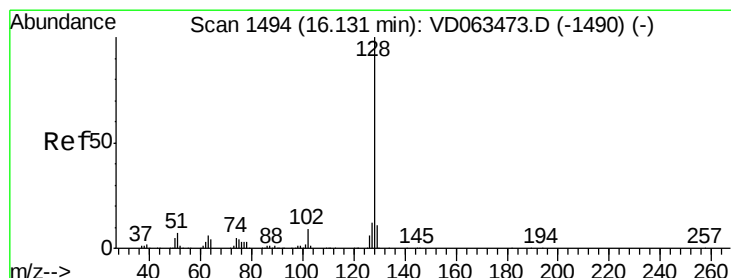
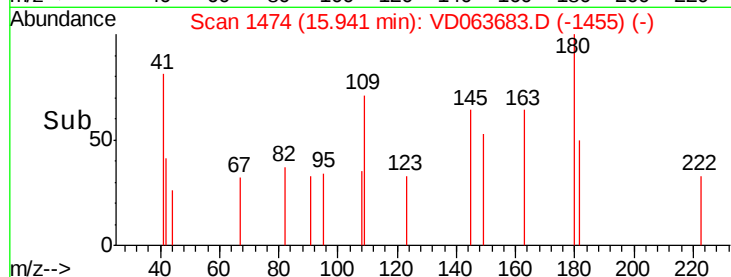
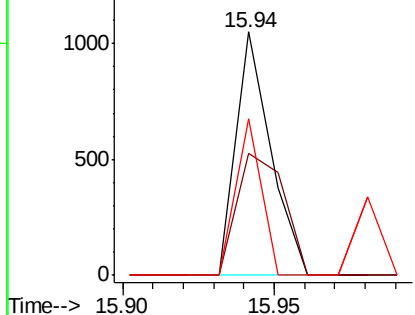
#93
 1,2,4-Trichlorobenzene
 Concen: 1.167 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD063683.D
 Acq: 20 Aug 2019 14:33

Instrument :
 MSVOA_D
 ClientSampleId :
 T8-D-(0)RE

Tgt Ion:180 Resp: 842
 Ion Ratio Lower Upper
 180 100
 182 50.0 49.7 149.1
 145 64.4 14.1 42.2#

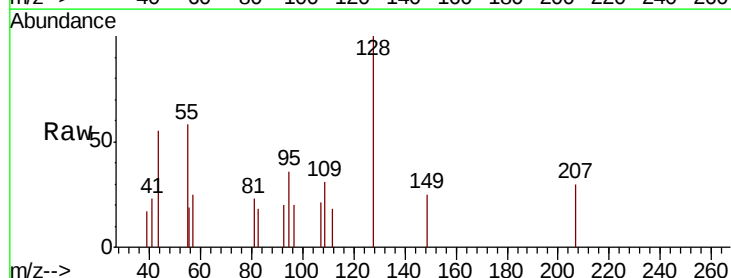


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 1.824 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD063683.D
 Acq: 20 Aug 2019 14:33

Tgt Ion:128 Resp: 1994
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.4 14.0#
 129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

