

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081519\
 Data File : VD063616.D
 Acq On : 15 Aug 2019 20:06
 Operator : JC/SY
 Sample : K4356-13
 Misc : 3.67g/5ml/MSVOA_D/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7

Quant Time: Aug 16 01:07:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	514450	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	618537	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	296717	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	54901	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	264827	48.16	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	96.32%	
35) Dibromofluoromethane	6.91	113	274973	52.78	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.56%	
50) Toluene-d8	10.40	98	391717	34.20	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	68.40%	
62) 4-Bromofluorobenzene	13.55	95	77529	14.94	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	29.88%	

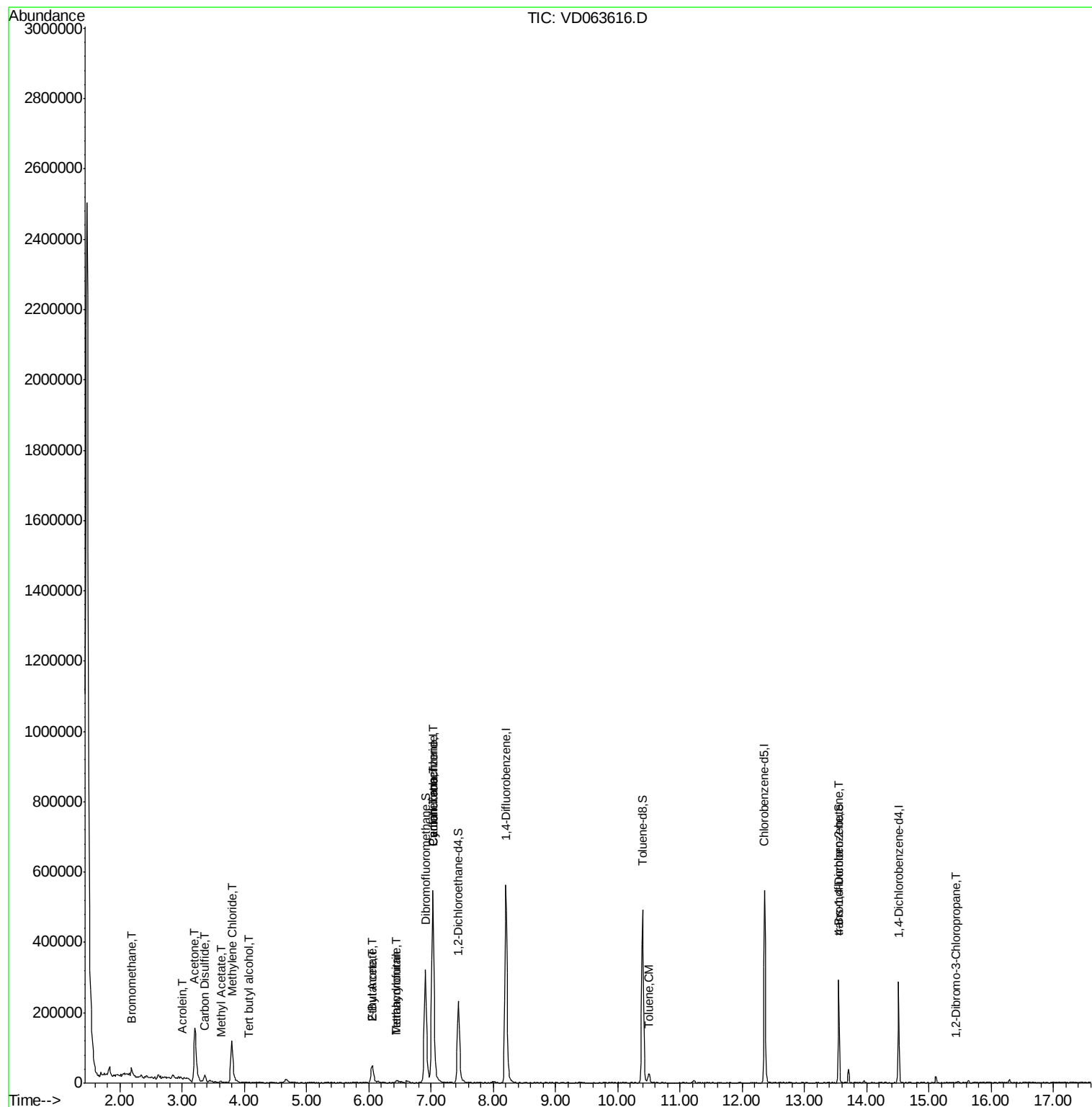
Target Compounds						Qvalue
5) Bromomethane	2.19	94	2429	1.066	ug/l #	11
11) Tert butyl alcohol	4.07	59	276	1.153	ug/l #	71
13) Acrolein	3.01	56	385	1.634	ug/l #	18
16) Acetone	3.20	43	296567	265.300	ug/l	94
17) Carbon Disulfide	3.36	76	31415	2.395	ug/l #	77
18) Methyl Acetate	3.64	43	5741	2.711	ug/l #	57
20) Methylene Chloride	3.80	84	76611	15.849	ug/l	96
25) 2-Butanone	6.06	43	105803	95.833	ug/l	96
29) Tetrahydrofuran	6.43	42	4887	9.499	ug/l #	58
31) Cyclohexane	7.03	56	11845	2.386	ug/l #	1
37) Ethyl Acetate	6.06	43	97676	42.630	ug/l #	73
38) Carbon Tetrachloride	7.03	117	52001	6.310	ug/l #	16
41) Methacrylonitrile	6.44	41	4863	1.686	ug/l #	84
52) Toluene	10.51	92	13182	1.701	ug/l	78
81) trans-1,4-Dichloro-2-buten	13.55	75	32670	192.915	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.44	75	279	2.556	ug/l #	1

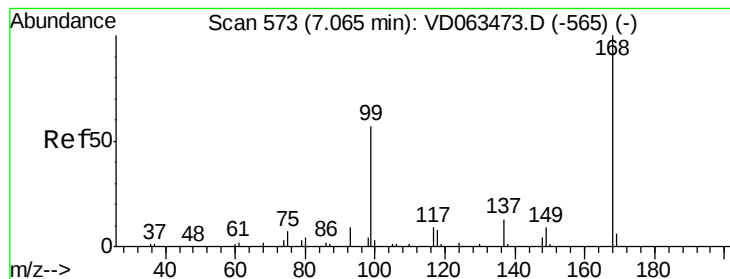
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampled :

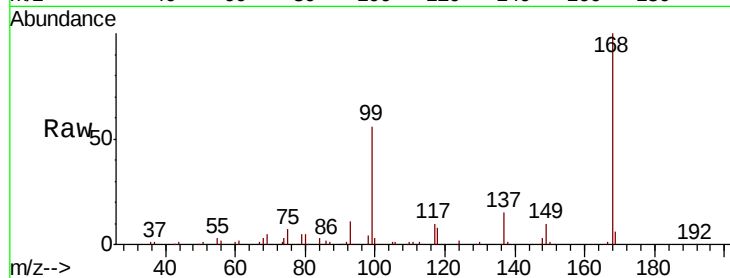
TP-7

Tgt Ion:168 Resp: 514450

Ion Ratio Lower Upper

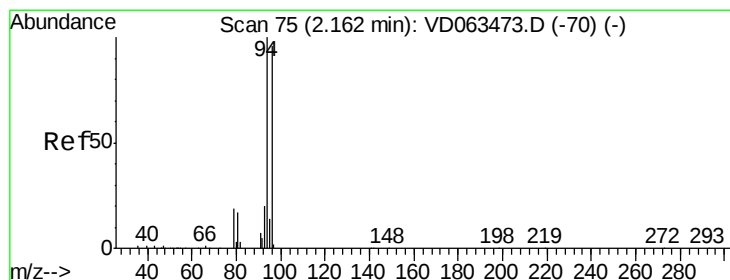
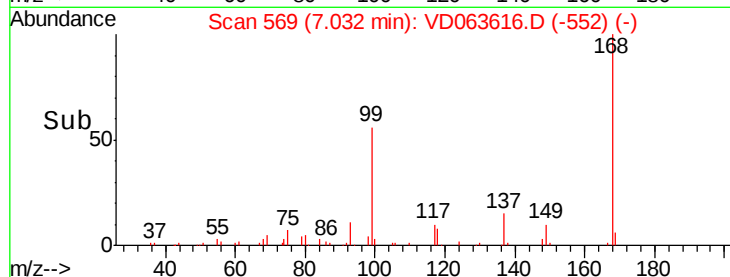
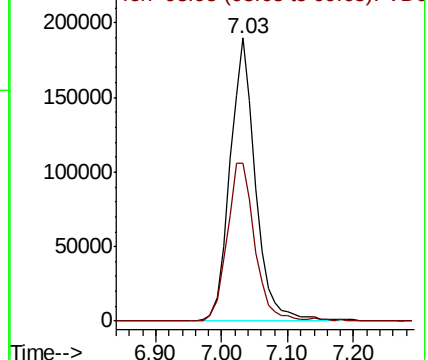
168 100

99 56.0 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: 1.066 ug/l

RT: 2.19 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

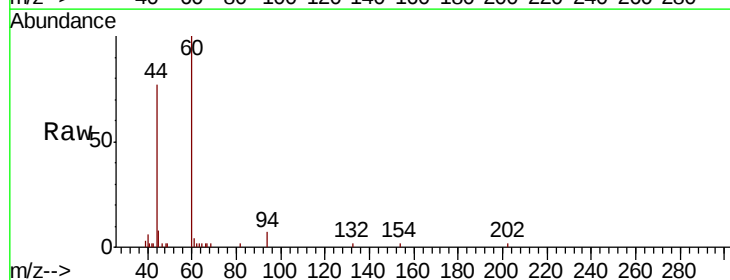
Tgt Ion: 94 Resp: 2429

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

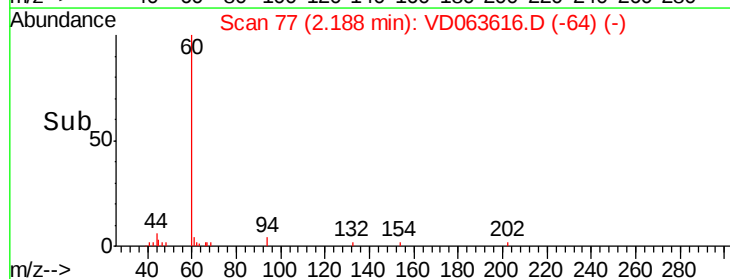
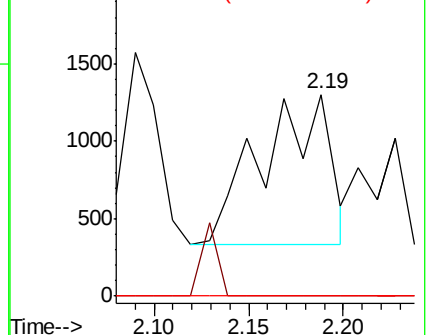
93 0.0 15.8 23.8#

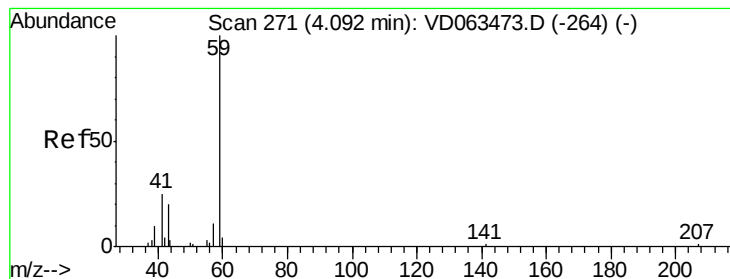


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#11

Tert butyl alcohol

Concen: 1.153 ug/l

RT: 4.07 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampled :

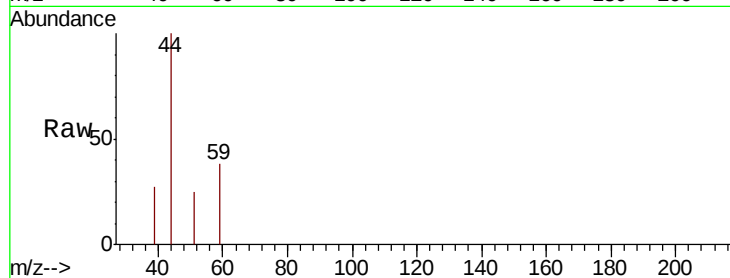
TP-7

Tgt Ion: 59 Resp: 276

Ion Ratio Lower Upper

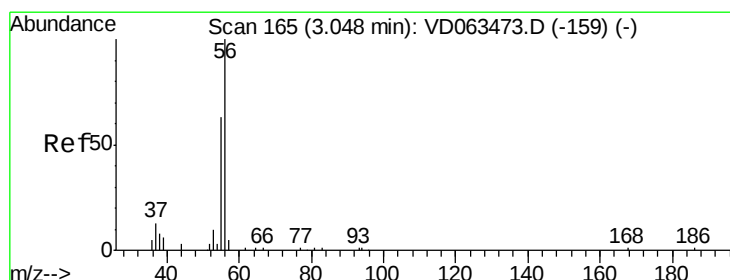
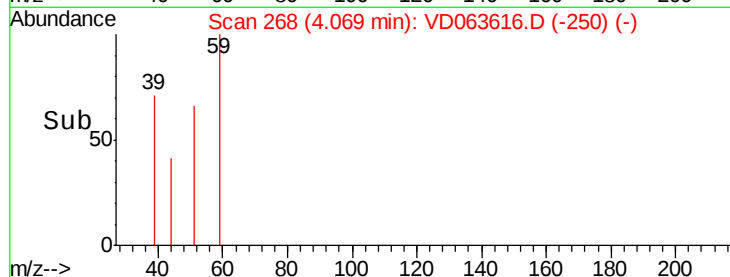
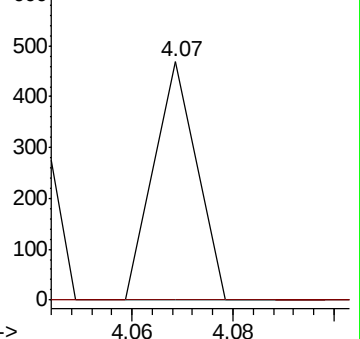
59 100

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



#13

Acrolein

Concen: 1.634 ug/l

RT: 3.01 min Scan# 160

Delta R.T. -0.04 min

Lab File: VD063616.D

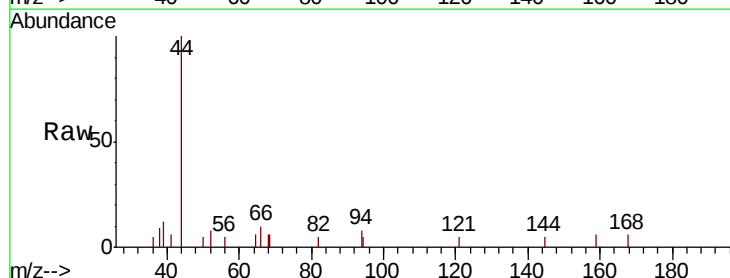
Acq: 15 Aug 2019 20:06

Tgt Ion: 56 Resp: 385

Ion Ratio Lower Upper

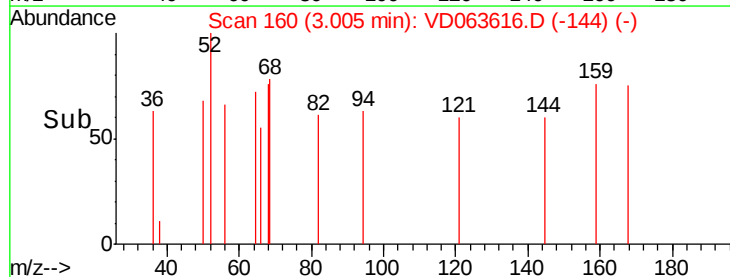
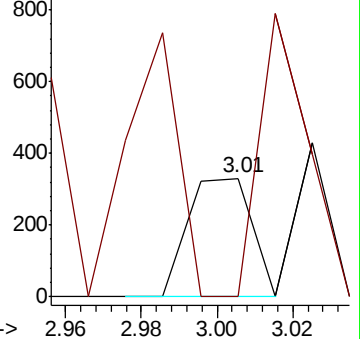
56 100

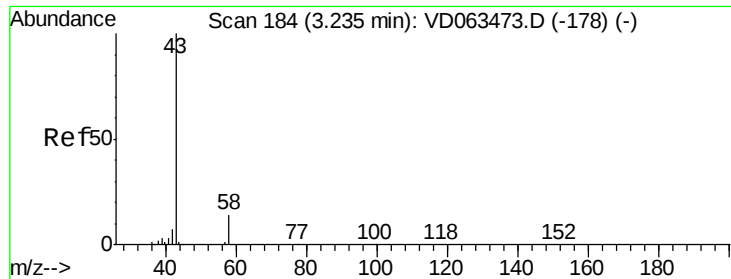
55 0.0 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 265.300 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.03 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

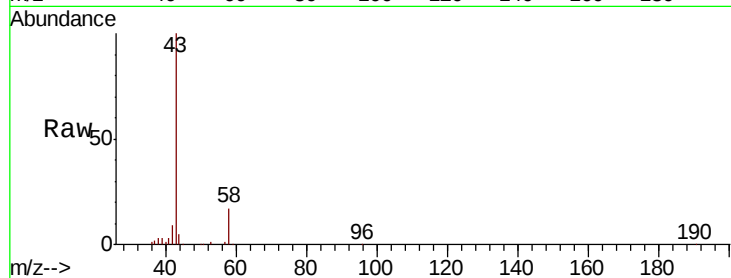
TP-7

Tgt Ion: 43 Resp: 296567

Ion Ratio Lower Upper

43 100

58 16.9 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.20

120000

100000

80000

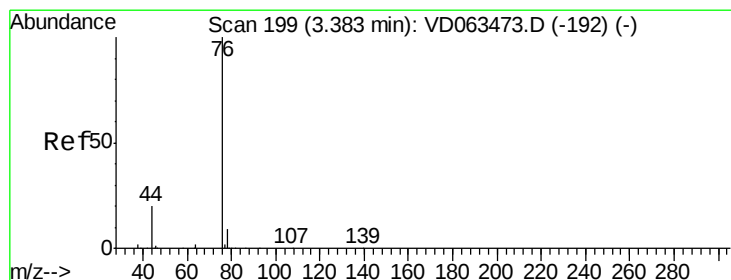
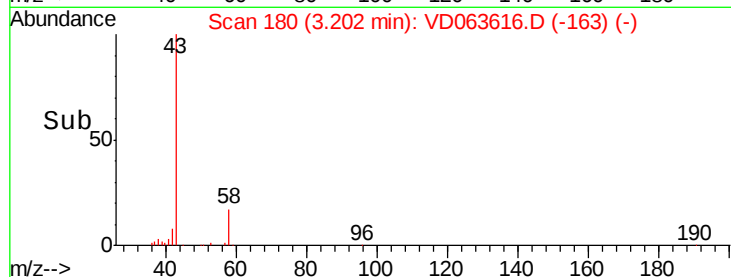
60000

40000

20000

0

Time-->



#17

Carbon Disulfide

Concen: 2.395 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.02 min

Lab File: VD063616.D

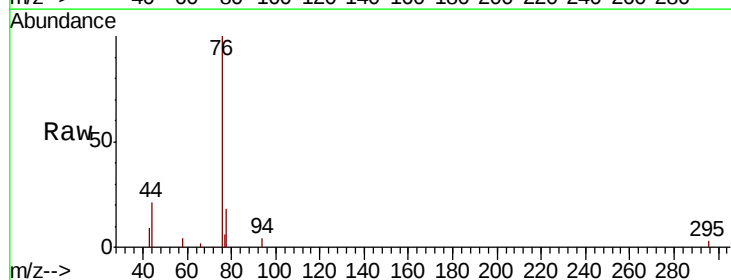
Acq: 15 Aug 2019 20:06

Tgt Ion: 76 Resp: 31415

Ion Ratio Lower Upper

76 100

78 17.6 7.4 11.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

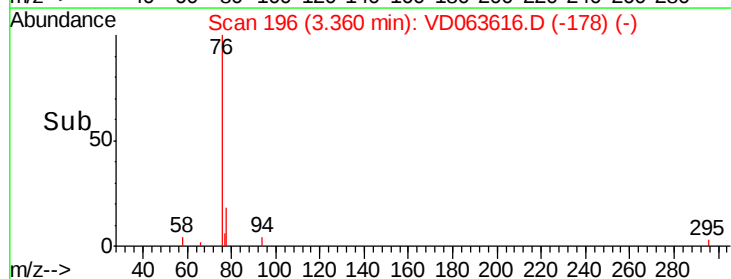
15000

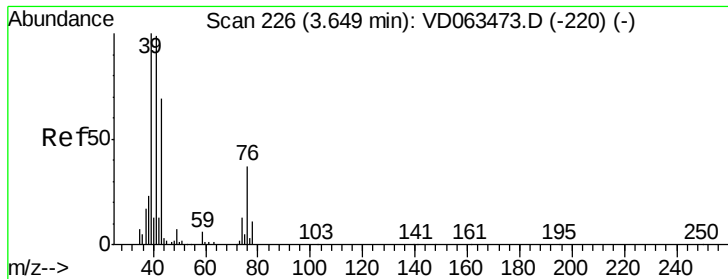
10000

5000

0

Time-->

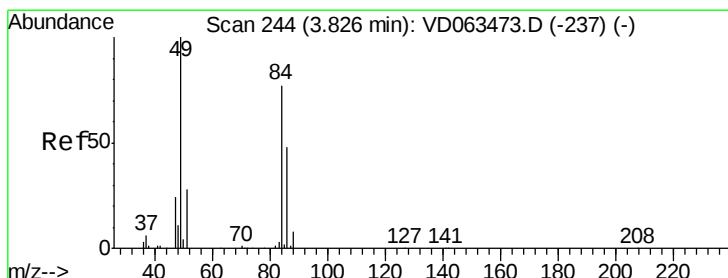
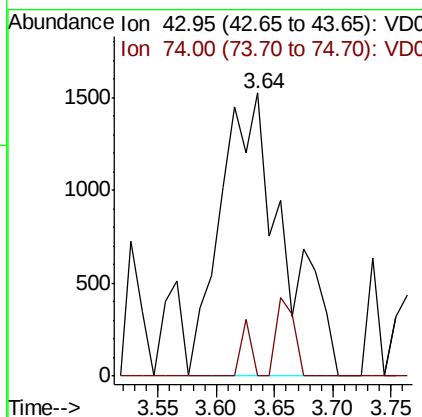
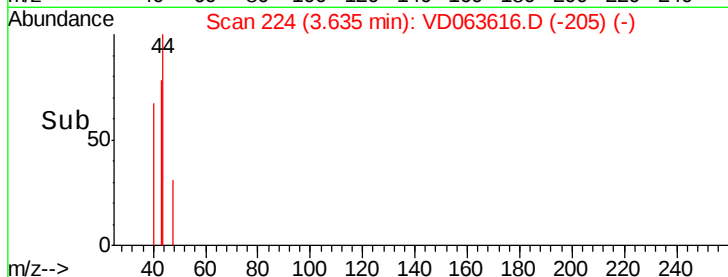
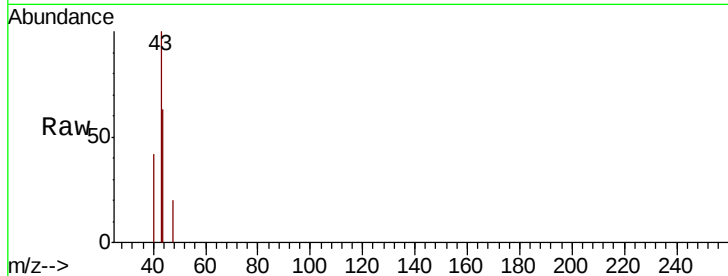




#18
Methyl Acetate
Concen: 2.711 ug/l
RT: 3.64 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD063616.D
Acq: 15 Aug 2019 20:06

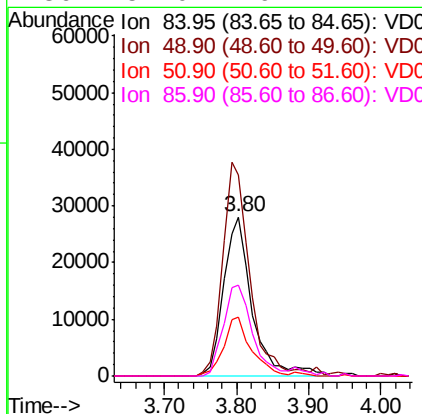
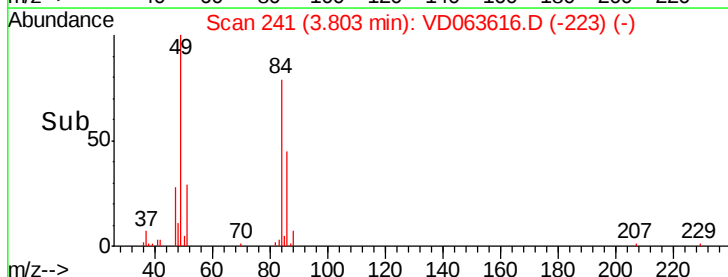
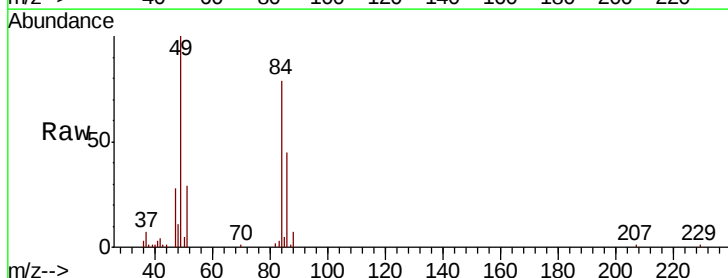
Instrument :
MSVOA_D
ClientSampleId :
TP-7

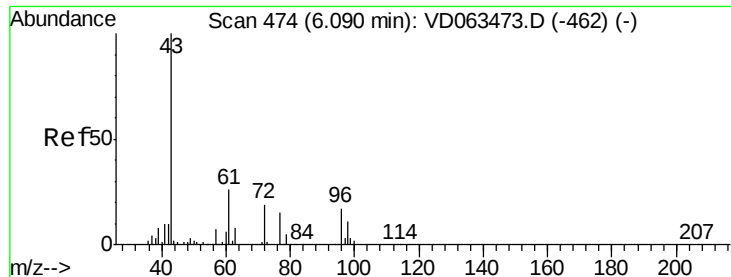
Tgt Ion: 43 Resp: 5741
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 15.849 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063616.D
Acq: 15 Aug 2019 20:06

Tgt Ion: 84 Resp: 76611
Ion Ratio Lower Upper
84 100
49 126.1 103.4 155.2
51 36.9 28.5 42.7
86 57.0 49.4 74.2





#25

2-Butanone

Concen: 95.833 ug/l

RT: 6.06 min Scan# 470

Delta R.T. -0.03 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampled :

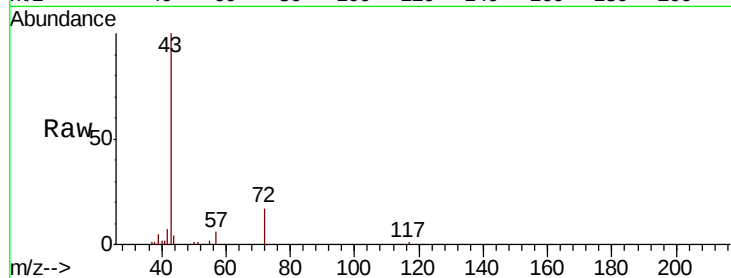
TP-7

Tgt Ion: 43 Resp: 105803

Ion Ratio Lower Upper

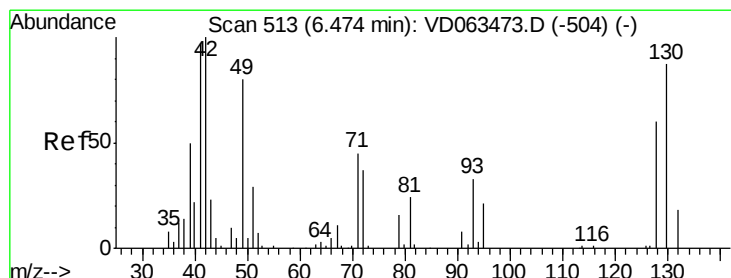
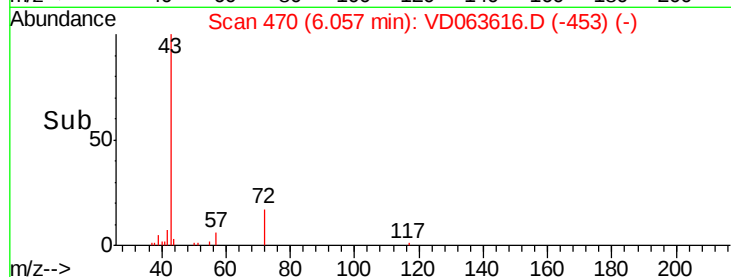
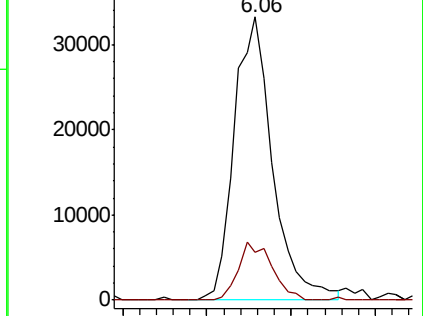
43 100

72 17.1 15.1 22.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 9.499 ug/l

RT: 6.43 min Scan# 508

Delta R.T. -0.04 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

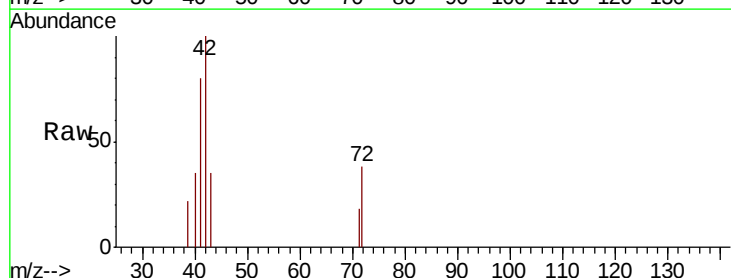
Tgt Ion: 42 Resp: 4887

Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

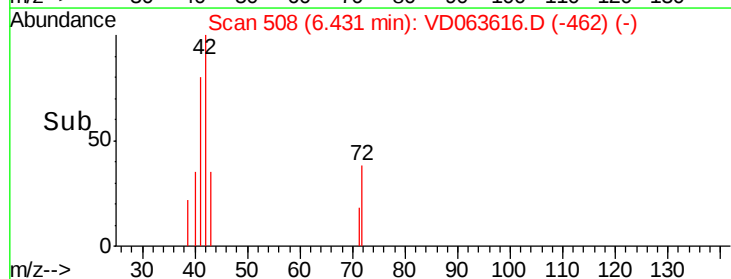
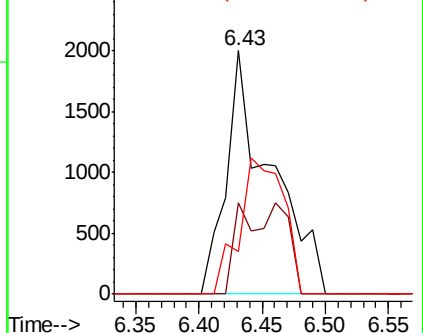
71 55.6 33.8 50.8#

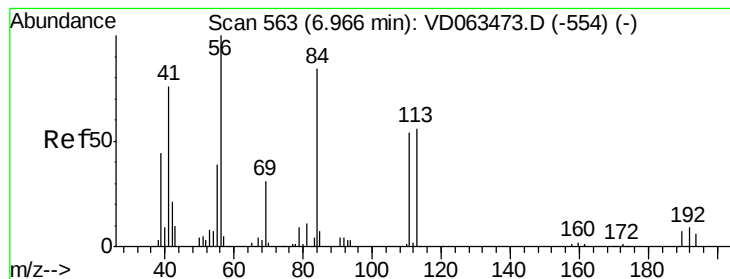


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 2.386 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.07 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

TP-7

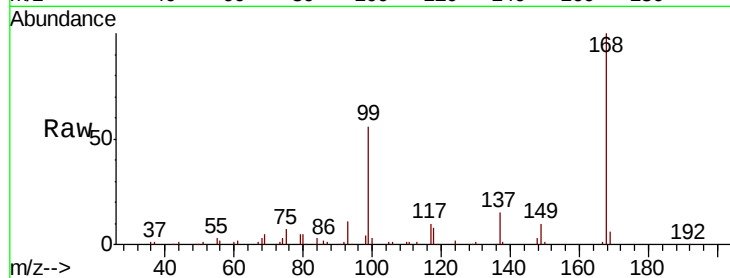
Tgt Ion: 56 Resp: 11845

Ion Ratio Lower Upper

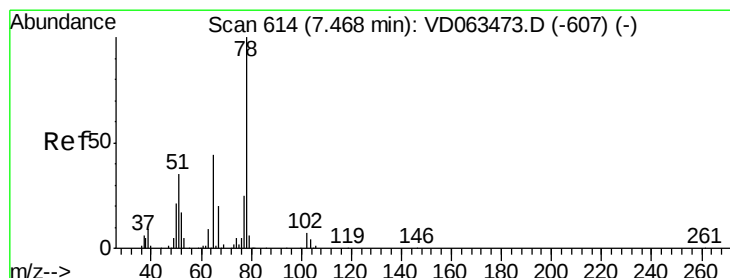
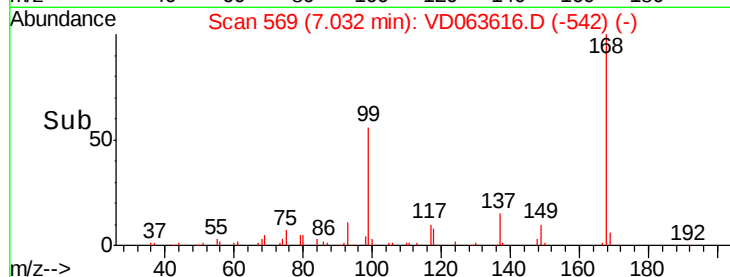
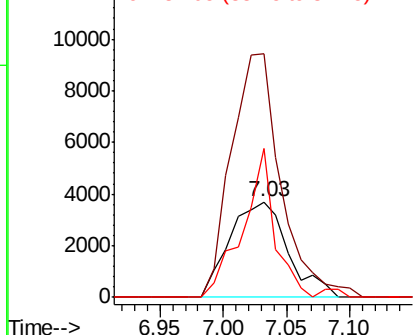
56 100

69 255.5 25.0 37.6#

84 156.4 69.7 104.5#



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



#33

1,2-Dichloroethane-d4

Concen: 48.158 ug/l

RT: 7.44 min Scan# 610

Delta R.T. -0.03 min

Lab File: VD063616.D

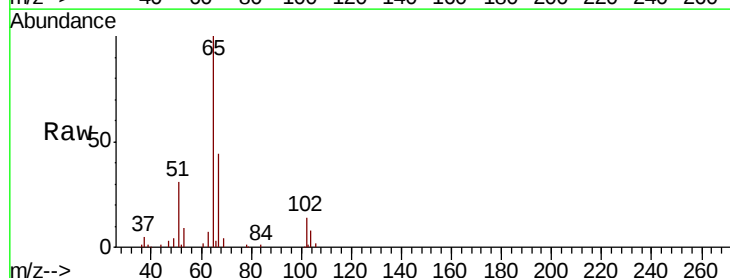
Acq: 15 Aug 2019 20:06

Tgt Ion: 65 Resp: 264827

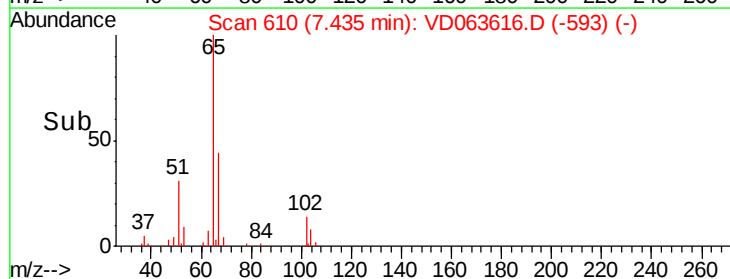
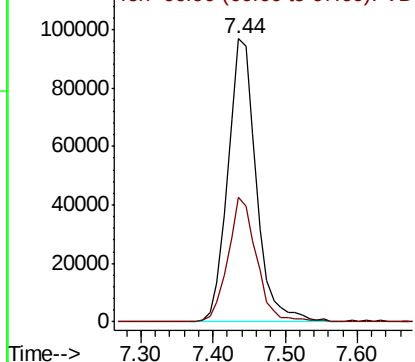
Ion Ratio Lower Upper

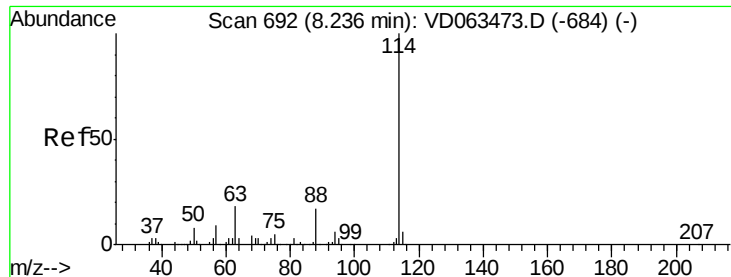
65 100

67 43.9 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: 8.20 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

TP-7

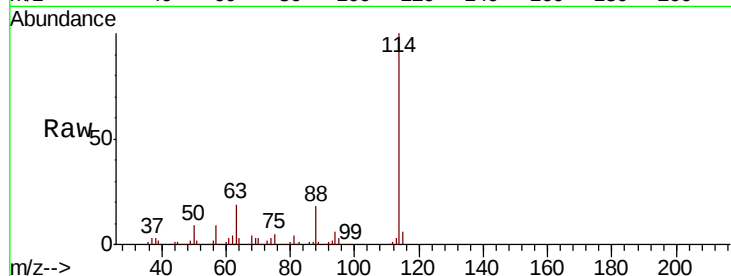
Tgt Ion:114 Resp: 618537

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.2

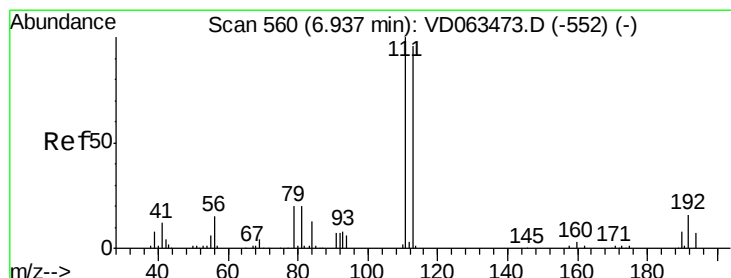
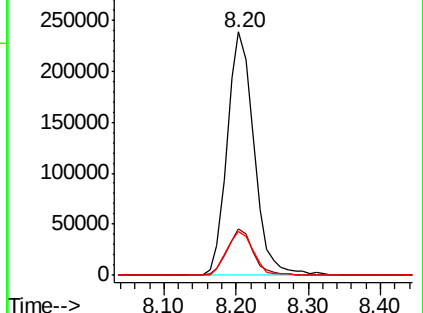
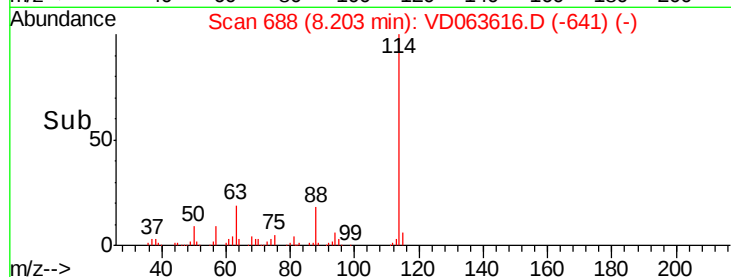
88 18.0 0.0 35.0



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: 52.784 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

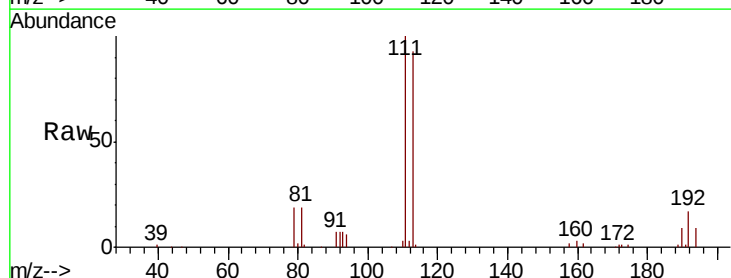
Tgt Ion:113 Resp: 274973

Ion Ratio Lower Upper

113 100

111 108.1 83.1 124.7

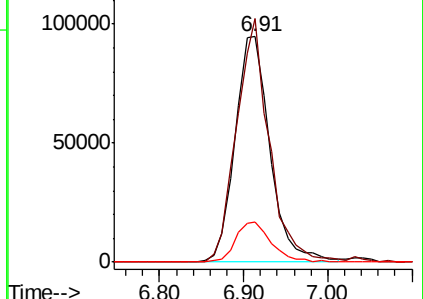
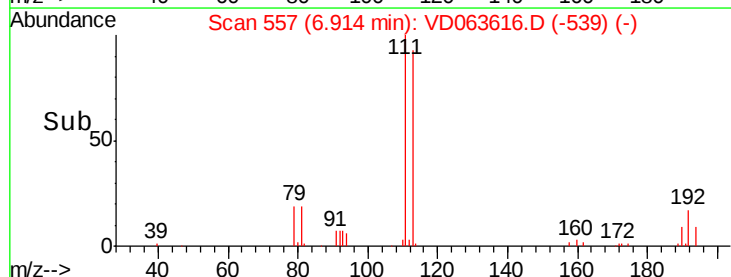
192 17.9 13.1 19.7

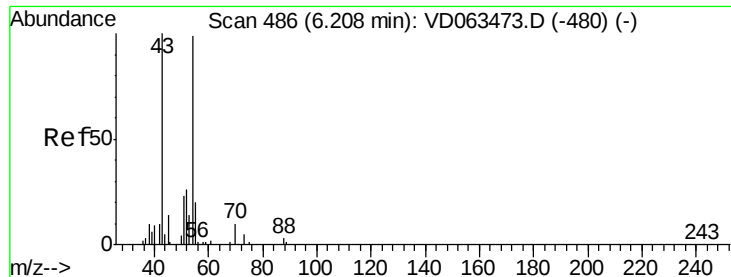


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#37

Ethyl Acetate

Concen: 42.630 ug/l

RT: 6.06 min Scan# 470

Delta R.T. -0.15 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

TP-7

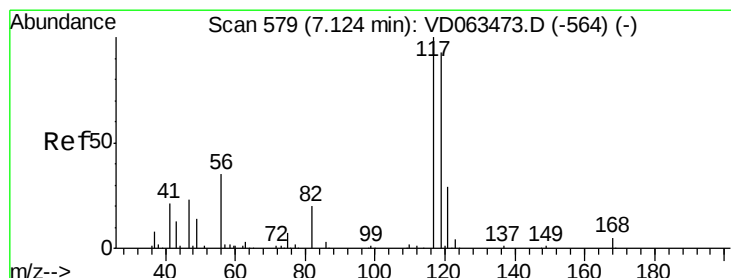
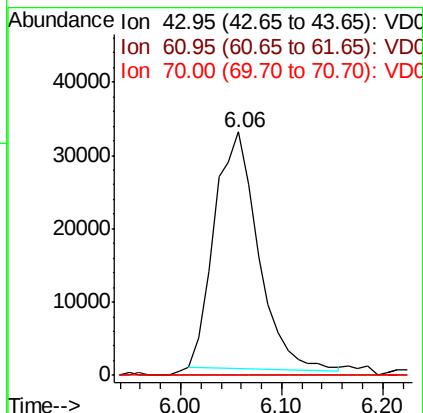
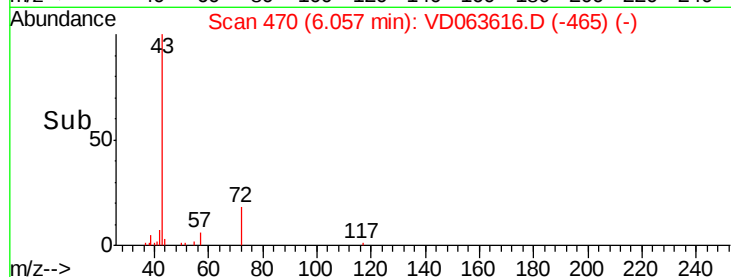
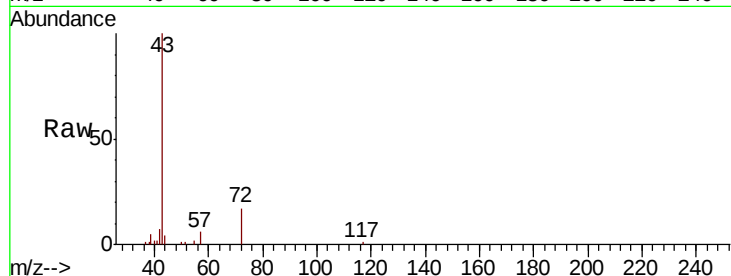
Tgt Ion: 43 Resp: 97676

Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.6#

70 0.0 6.9 10.3#



#38

Carbon Tetrachloride

Concen: 6.310 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.09 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

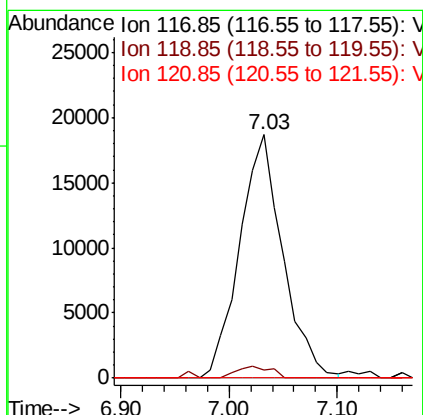
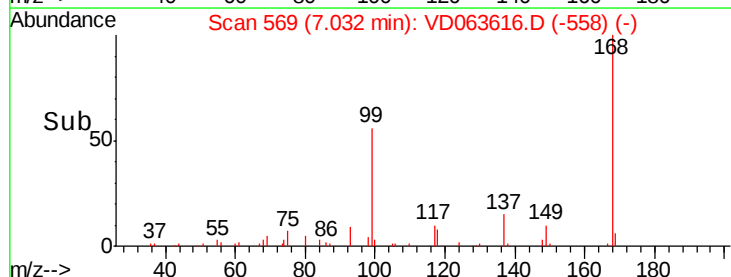
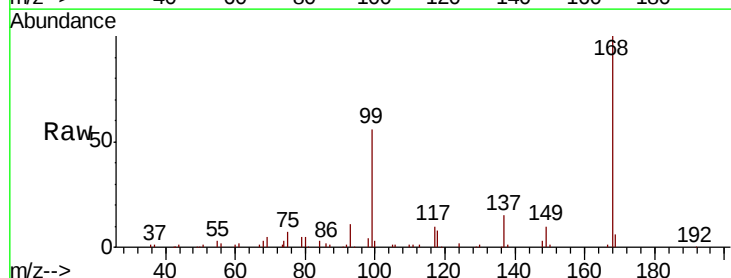
Tgt Ion: 117 Resp: 52001

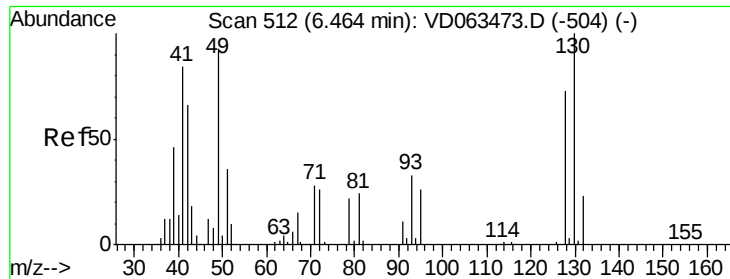
Ion Ratio Lower Upper

117 100

119 3.1 74.2 111.2#

121 0.0 23.1 34.7#





#41

Methacrylonitrile

Concen: 1.686 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.02 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

TP-7

Tgt Ion: 41 Resp: 4863

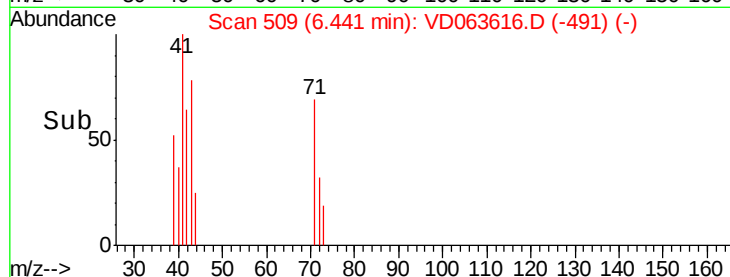
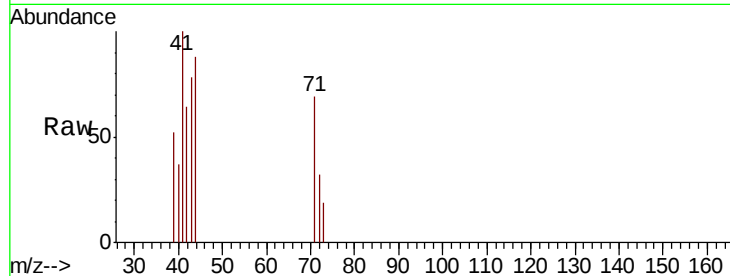
Ion Ratio Lower Upper

41 100

39 51.8 44.6 66.8

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

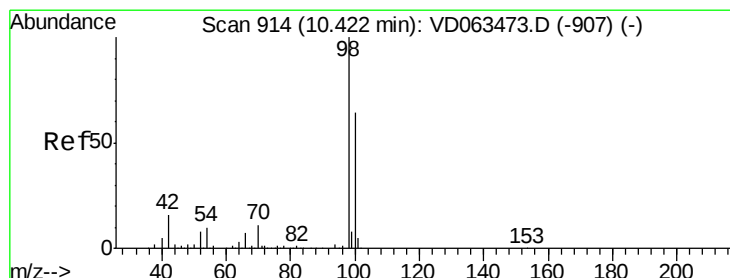
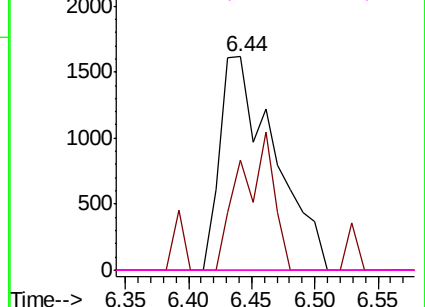


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 34.202 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.02 min

Lab File: VD063616.D

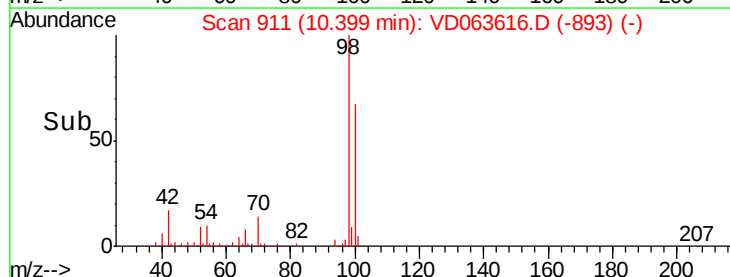
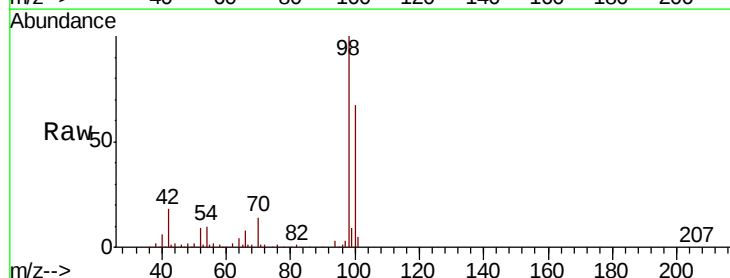
Acq: 15 Aug 2019 20:06

Tgt Ion: 98 Resp: 391717

Ion Ratio Lower Upper

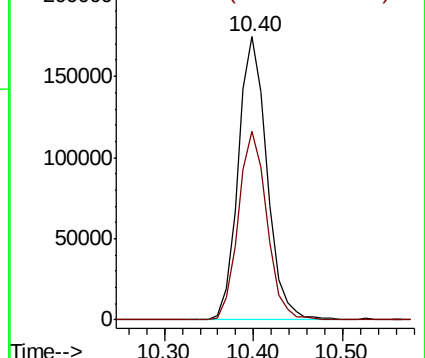
98 100

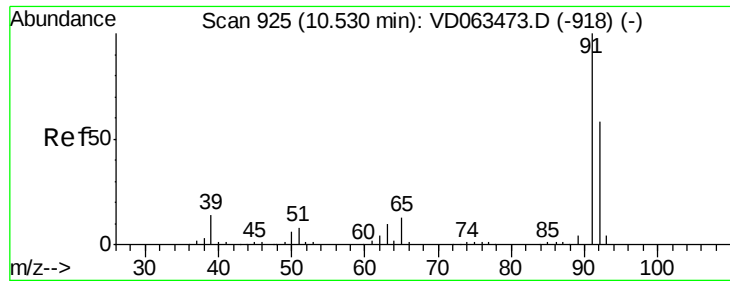
100 66.5 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 1.701 ug/l

RT: 10.51 min Scan# 922

Delta R.T. -0.02 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

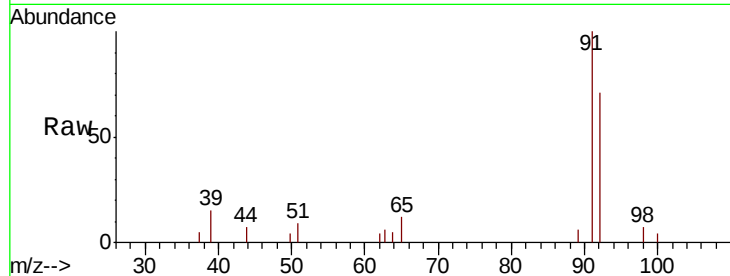
TP-7

Tgt Ion: 92 Resp: 13182

Ion Ratio Lower Upper

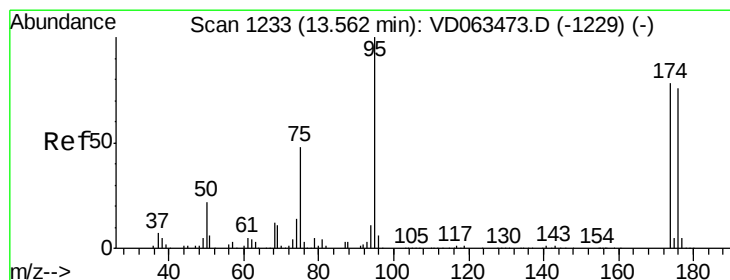
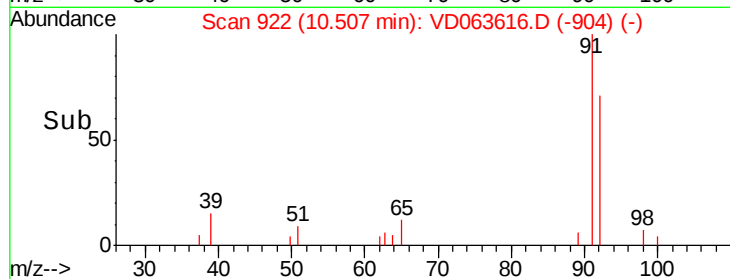
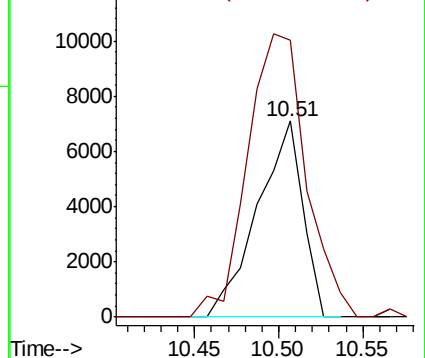
92 100

91 141.4 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 14.935 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

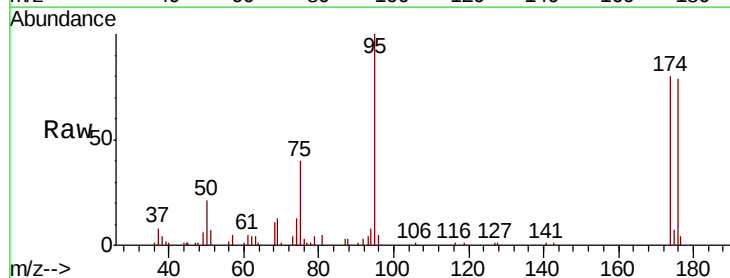
Tgt Ion: 95 Resp: 77529

Ion Ratio Lower Upper

95 100

174 80.4 0.0 155.4

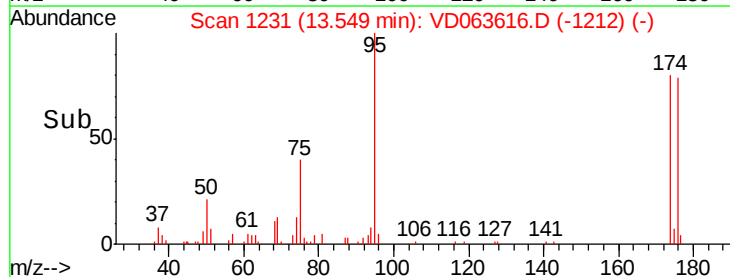
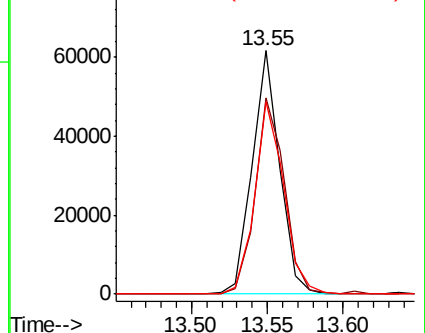
176 79.1 0.0 152.4

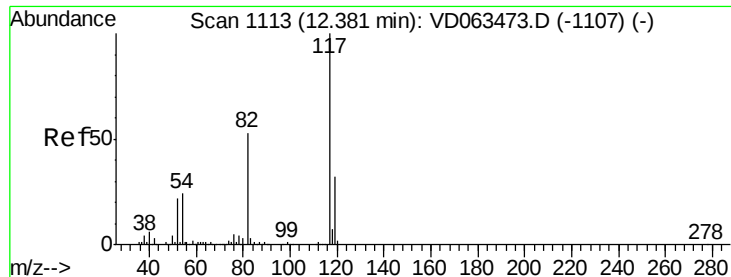


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

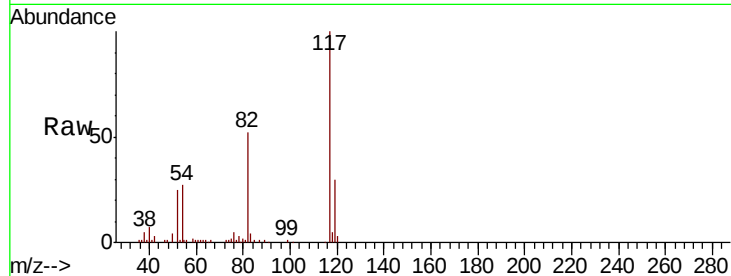




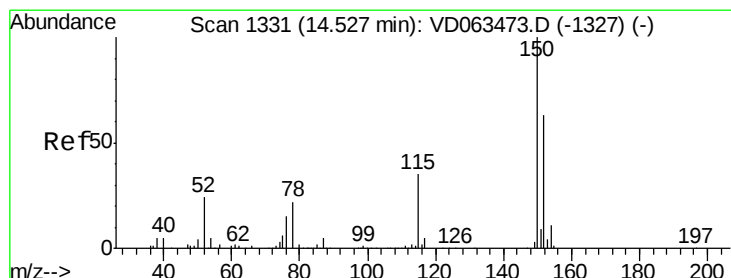
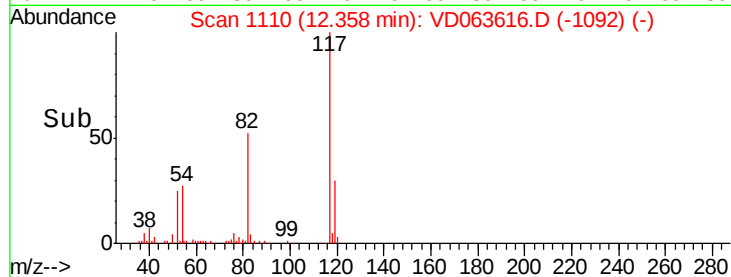
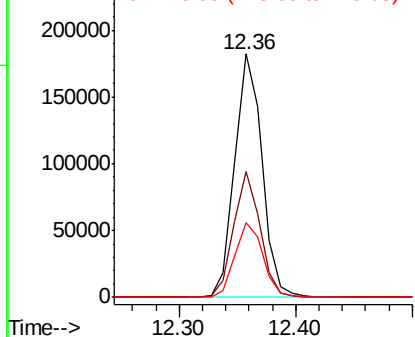
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VD063616.D
Acq: 15 Aug 2019 20:06

Instrument :
MSVOA_D
ClientSampled :
TP-7

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.8	42.0	63.0
119	30.5	25.4	38.0

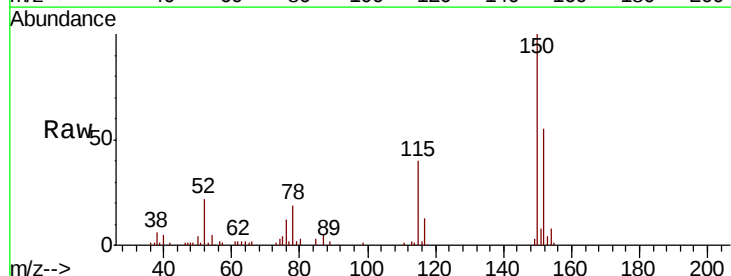


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

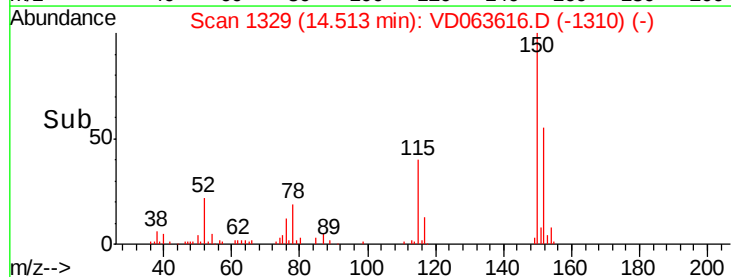
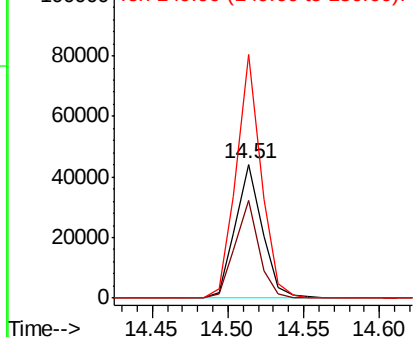


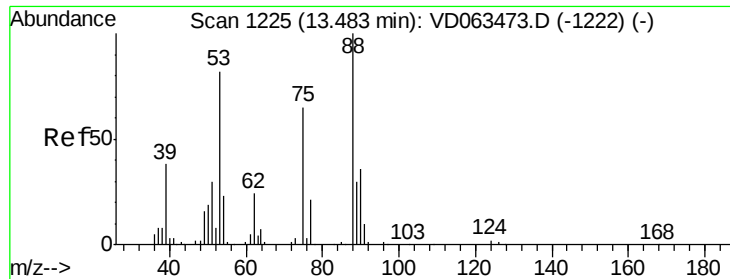
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063616.D
Acq: 15 Aug 2019 20:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	72.8	30.9	92.7
150	182.0	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: 192.915 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

TP-7

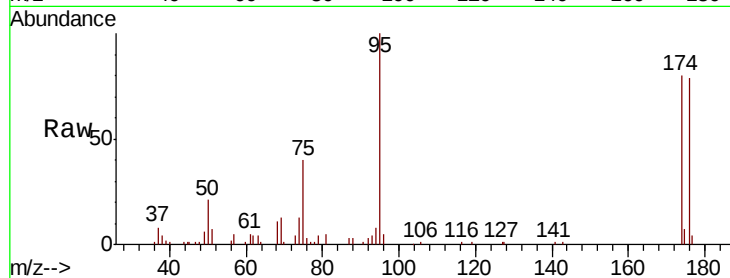
Tgt Ion: 75 Resp: 32670

Ion Ratio Lower Upper

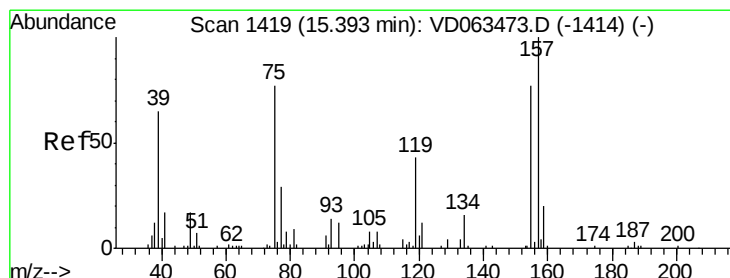
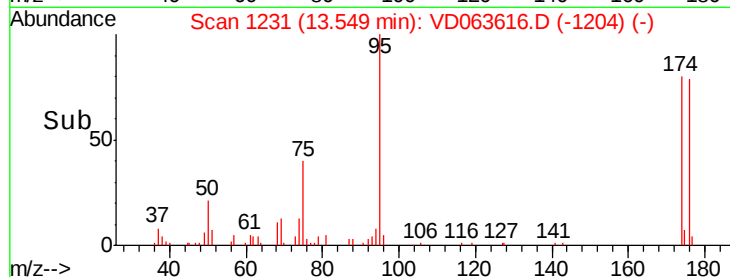
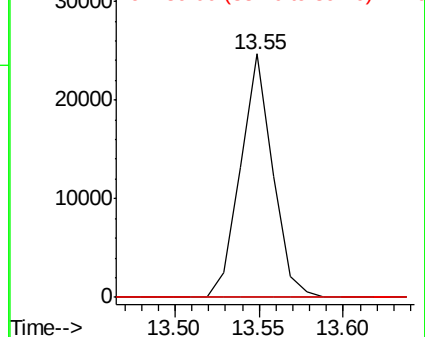
75 100

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: 2.556 ug/l

RT: 15.44 min Scan# 1423

Delta R.T. 0.05 min

Lab File: VD063616.D

Acq: 15 Aug 2019 20:06

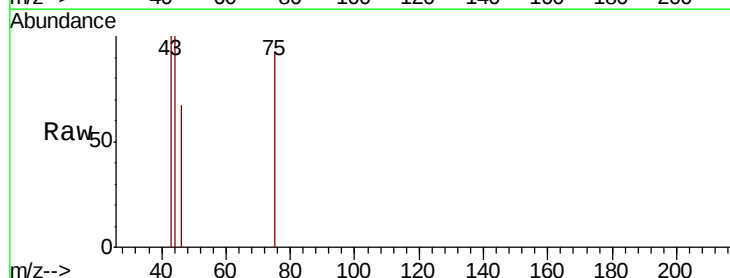
Tgt Ion: 75 Resp: 279

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

