

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
 Data File : VD063298.D
 Acq On : 1 Aug 2019 17:51
 Operator : VA/AP
 Sample : K4120-08
 Misc : 4.75u/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T3-2

Quant Time: Aug 02 07:26:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	704385	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	1122501	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	688965	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	177951	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	383966	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
35) Dibromofluoromethane	6.91	113	428749	44.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.48%	
50) Toluene-d8	10.40	98	725988	33.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.70%	
62) 4-Bromofluorobenzene	13.55	95	180107	18.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.86%	

Target Compounds

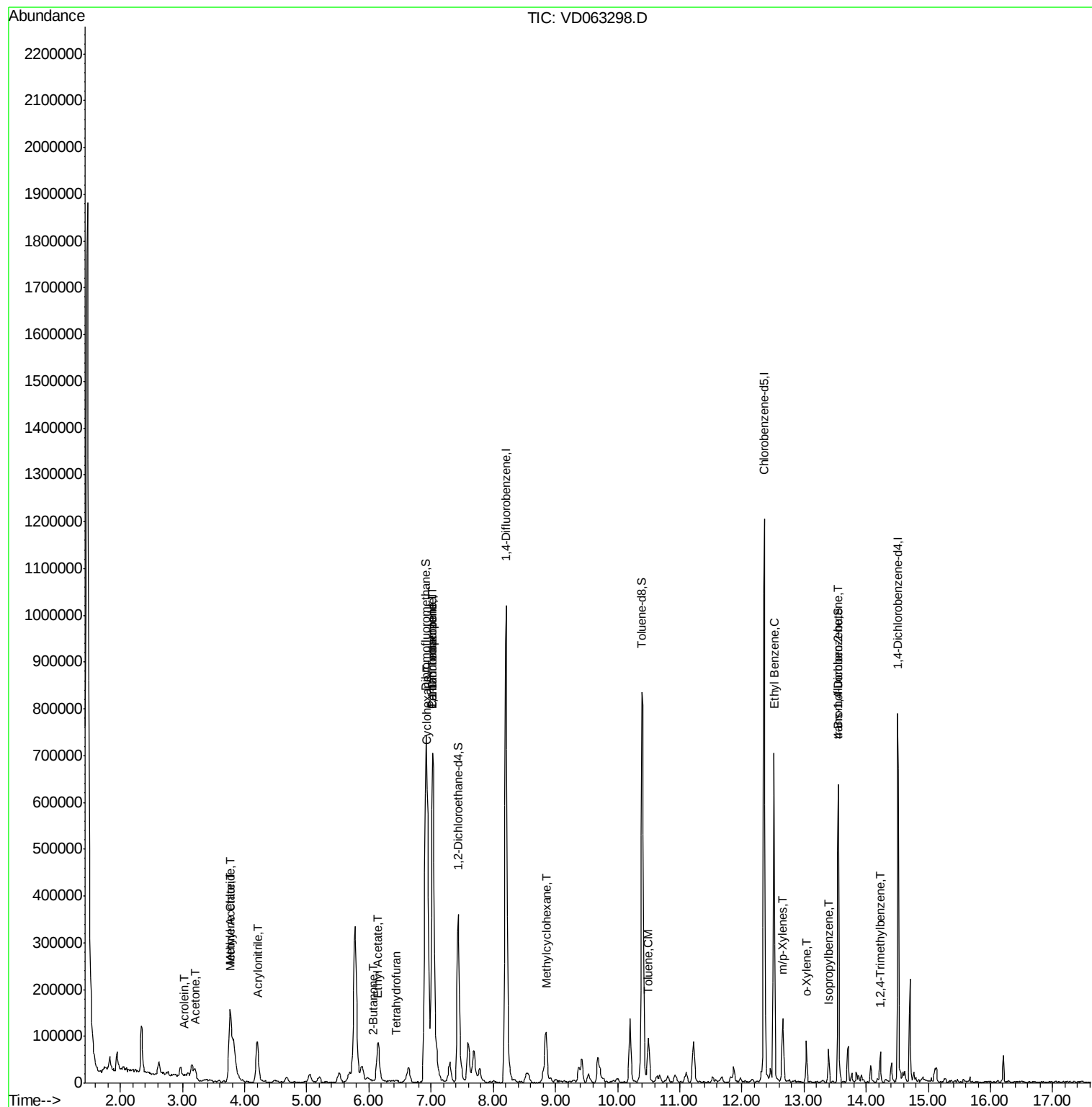
						Qvalue
13) Acrolein	3.03	56	455	1.378	ug/l #	15
15) Acrylonitrile	4.20	53	3441	3.870	ug/l #	37
16) Acetone	3.21	43	67311	44.201	ug/l	99
18) Methyl Acetate	3.77	43	123741	42.303	ug/l #	60
20) Methylene Chloride	3.79	84	16511	2.682	ug/l #	71
25) 2-Butanone	6.06	43	5363	3.509	ug/l #	56
29) Tetrahydrofuran	6.44	42	2585	3.573	ug/l #	83
31) Cyclohexane	6.95	56	337347	48.455	ug/l	93
36) 1,1-Dichloropropene	7.03	75	52577	5.132	ug/l #	56
37) Ethyl Acetate	6.14	43	7712	1.676	ug/l #	23
38) Carbon Tetrachloride	7.04	117	66117	4.287	ug/l #	19
39) Methylcyclohexane	8.86	83	53704	6.292	ug/l	92
52) Toluene	10.49	92	47441	3.322	ug/l	96
67) Ethyl Benzene	12.52	91	493357	21.915	ug/l	99
68) m/p-Xylenes	12.67	106	40968	4.962	ug/l	82
69) o-Xylene	13.04	106	15476	2.041	ug/l	98
73) Isopropylbenzene	13.39	105	40381	3.616	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.55	75	80007	134.801	ug/l #	3
84) 1,2,4-Trimethylbenzene	14.23	105	22440	2.252	ug/l	91

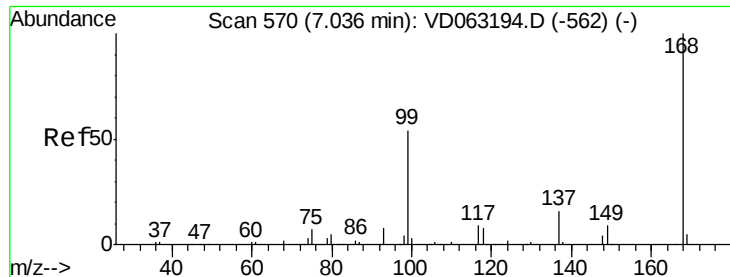
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_D
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T3-2

Quant Time: Aug 02 07:26:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

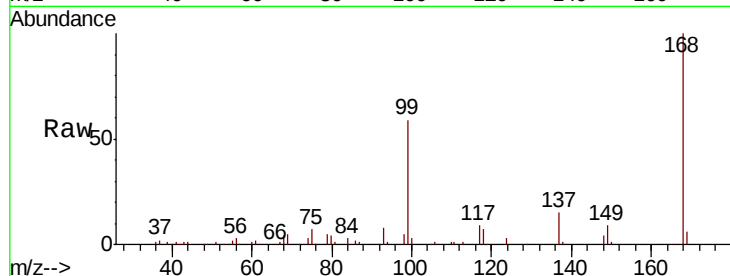
T3-2

Tot Ion:168 Resp: 704385

Ion Ratio Lower Upper

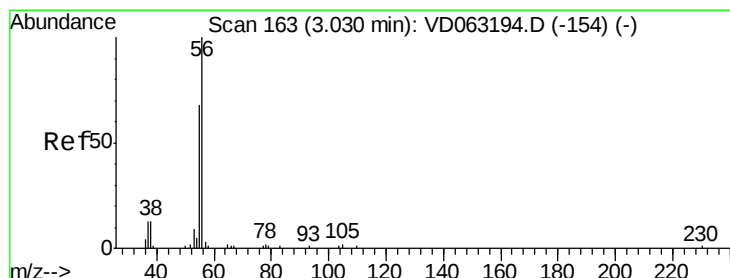
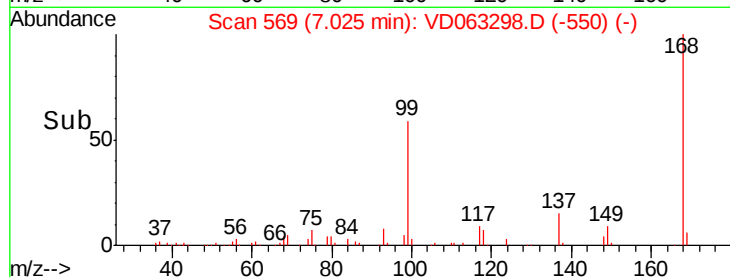
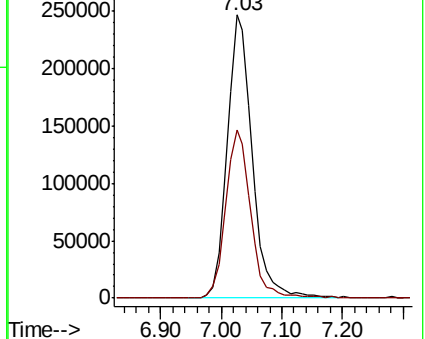
168 100

99 59.3 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#13

Acrolein

Concen: 1.378 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.00 min

Lab File: VD063298.D

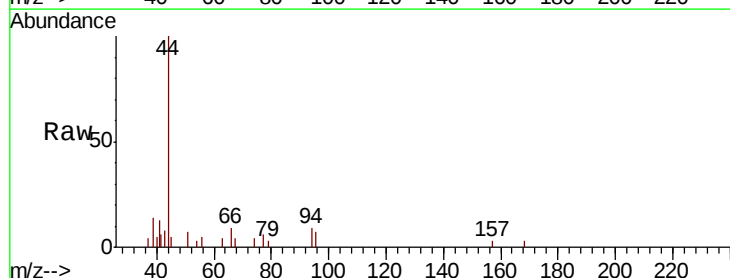
Acq: 1 Aug 2019 17:51

Tgt Ion: 56 Resp: 455

Ion Ratio Lower Upper

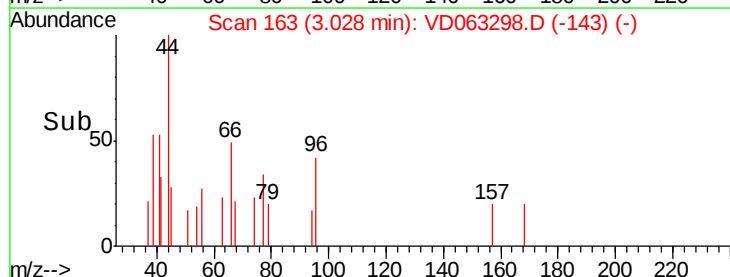
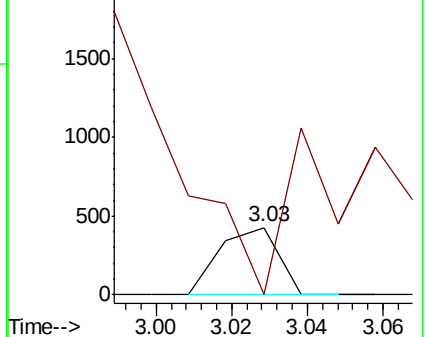
56 100

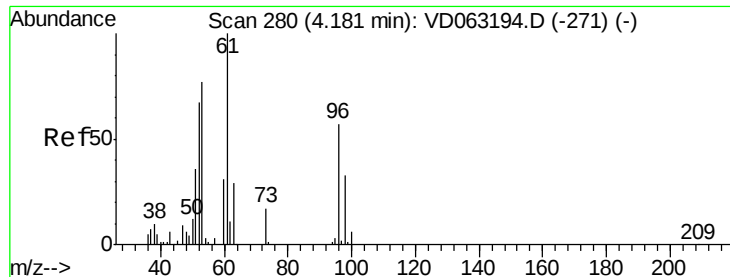
55 0.0 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#15

Acrylonitrile

Concen: 3.870 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.02 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleID :

T3-2

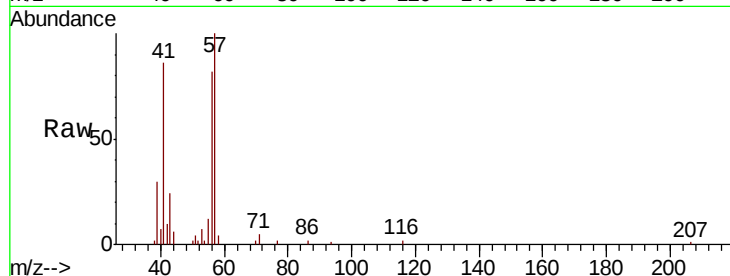
Tot Ion: 53 Resp: 3441

Ion Ratio Lower Upper

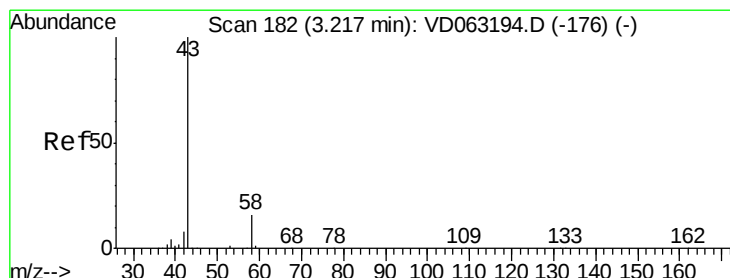
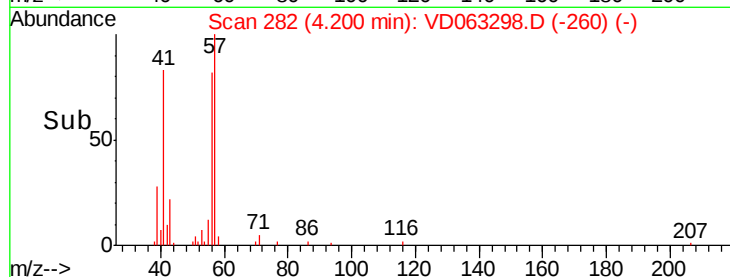
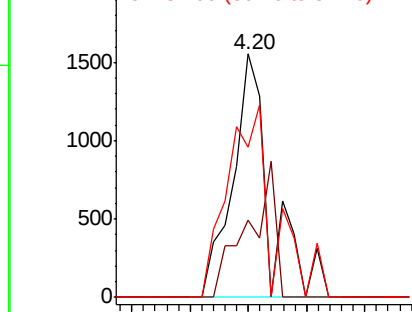
53 100

52 31.9 69.7 104.5#

51 93.6 37.4 56.0#



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: 44.201 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063298.D

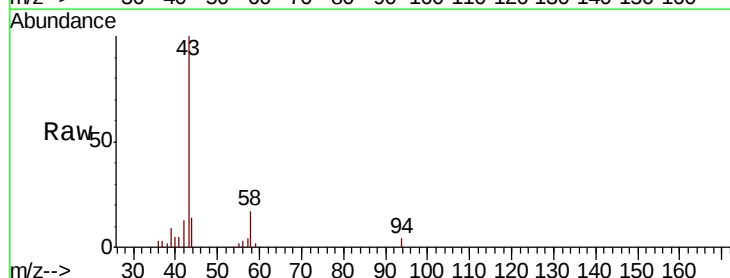
Acq: 1 Aug 2019 17:51

Tgt Ion: 43 Resp: 67311

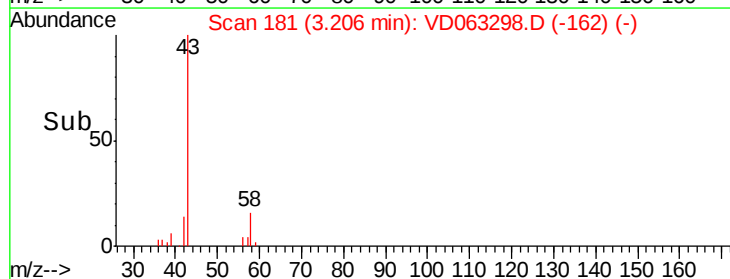
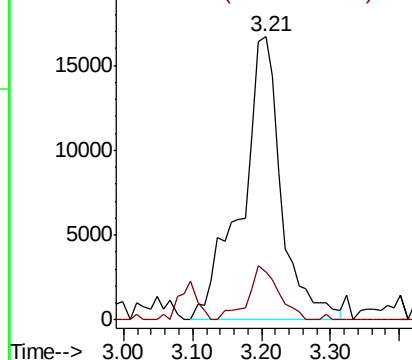
Ion Ratio Lower Upper

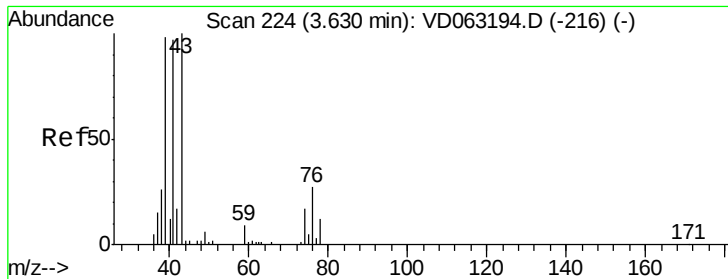
43 100

58 16.8 13.0 19.4



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

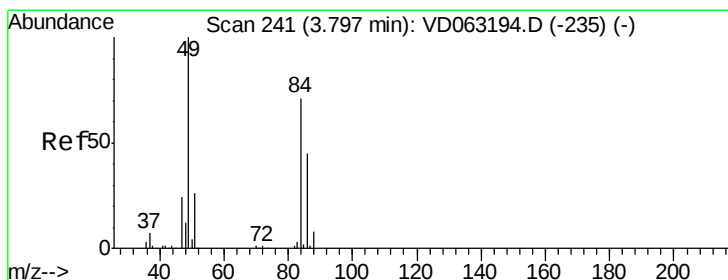
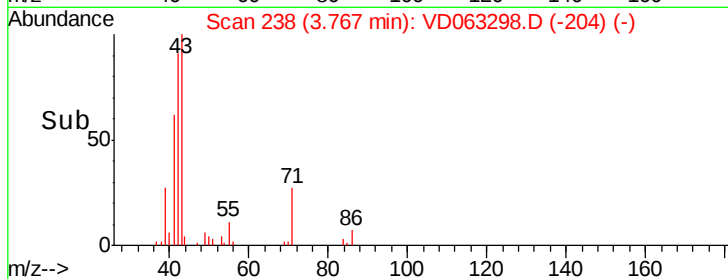
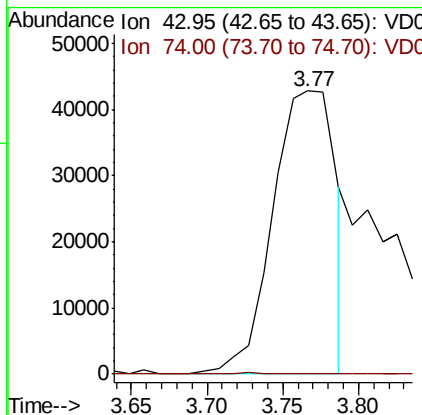
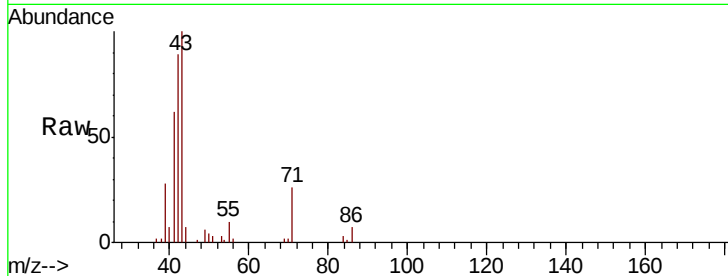




#18
Methyl Acetate
Concen: 42.303 ug/l
RT: 3.77 min Scan# 238
Delta R.T. 0.14 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

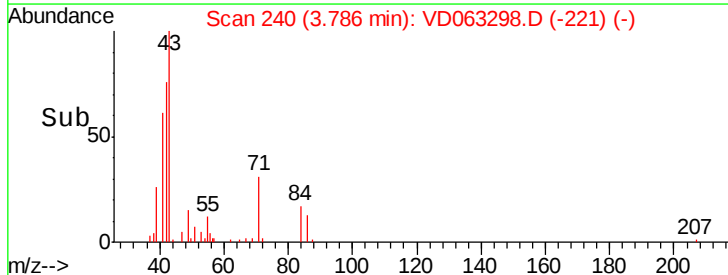
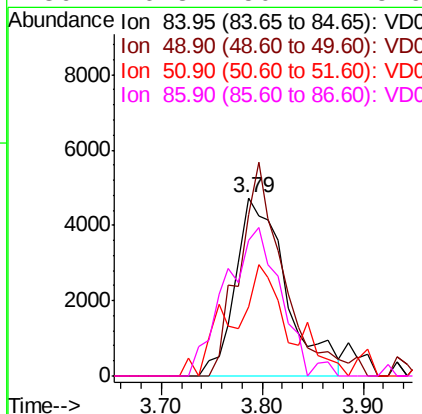
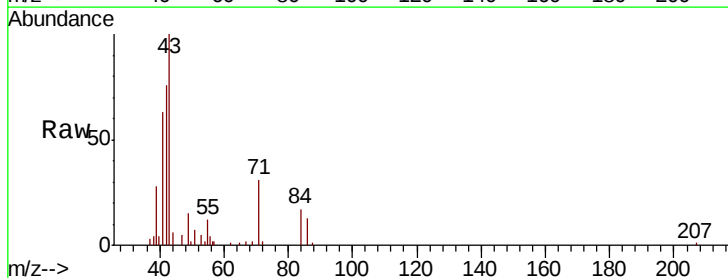
Instrument :
MSVOA_D
ClientSampleId :
T3-2

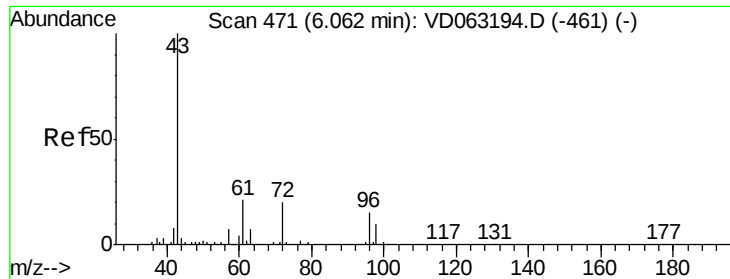
Tot Ion: 43 Resp: 123741
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#20
Methylene Chloride
Concen: 2.682 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.01 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

Tgt Ion: 84 Resp: 16511
Ion Ratio Lower Upper
84 100
49 90.8 112.5 168.7#
51 39.0 29.6 44.4
86 76.3 50.4 75.6#





#25

2-Butanone

Concen: 3.509 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampled :

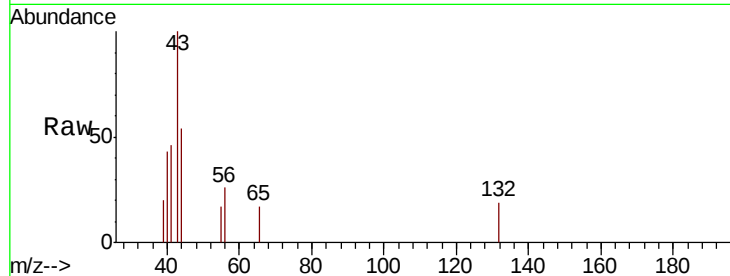
T3-2

Tot Ion: 43 Resp: 5363

Ion Ratio Lower Upper

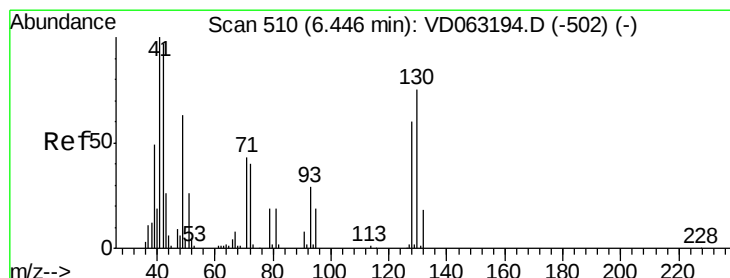
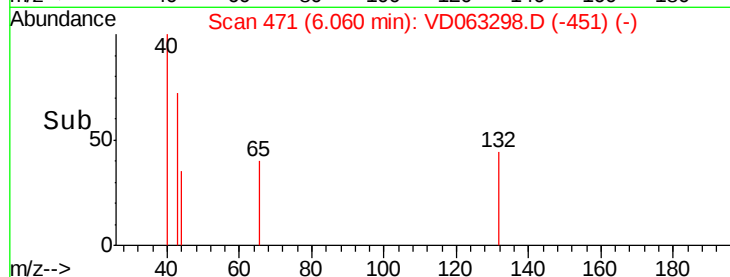
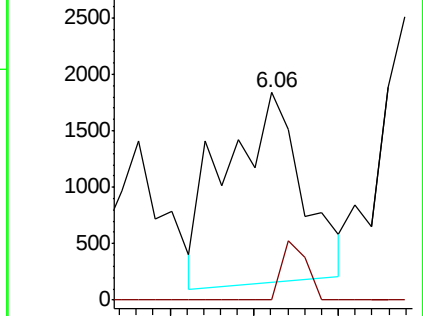
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 3.573 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

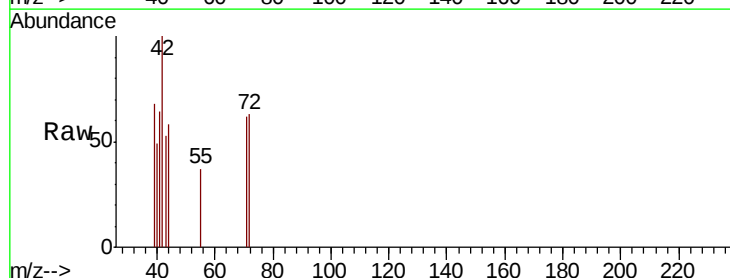
Tgt Ion: 42 Resp: 2585

Ion Ratio Lower Upper

42 100

72 62.3 33.4 50.2#

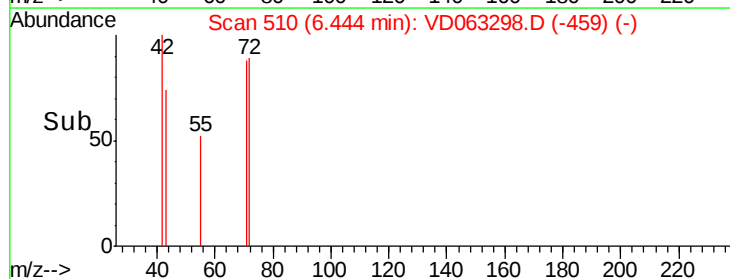
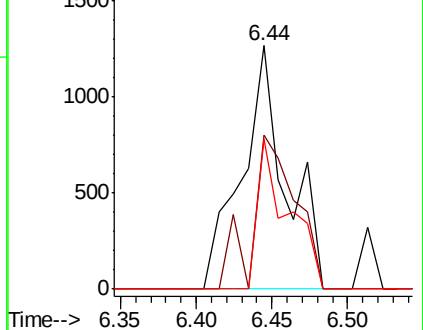
71 43.2 35.7 53.5

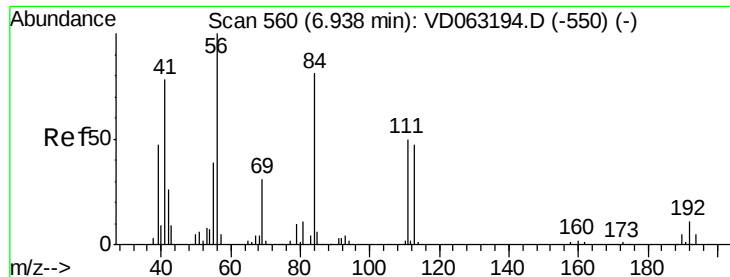


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

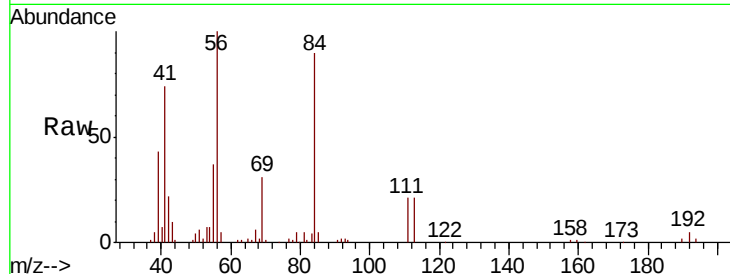




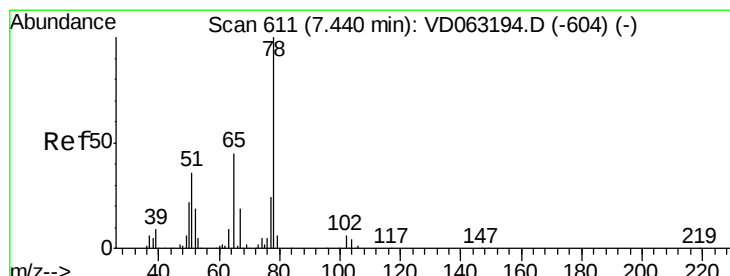
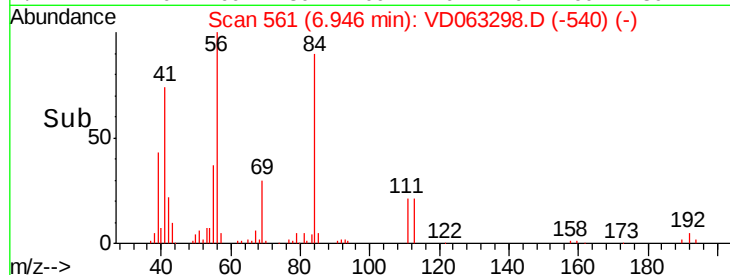
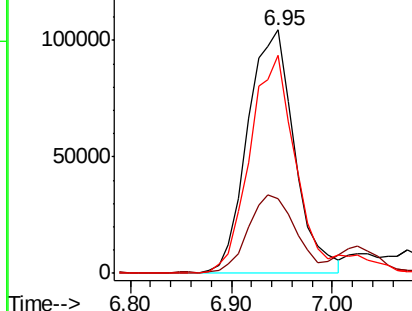
#31
Cyclohexane
Concen: 48.455 ug/l
RT: 6.95 min Scan# 561
Delta R.T. 0.01 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

Instrument :
MSVOA_D
ClientSampleId :
T3-2

Tot Ion: 56 Resp: 337347
Ion Ratio Lower Upper
56 100
69 30.7 24.5 36.7
84 89.8 64.9 97.3

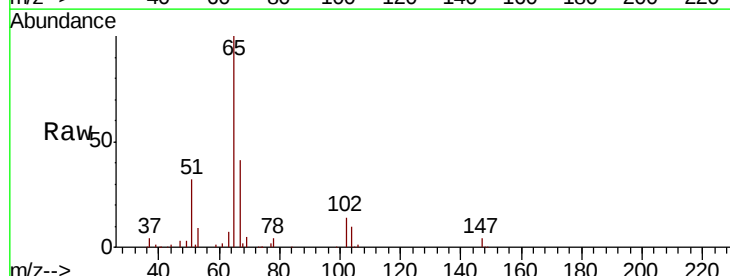


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

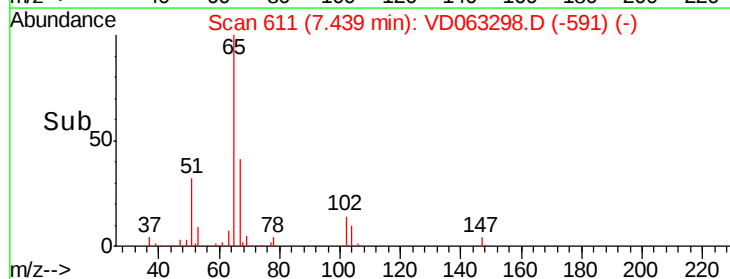
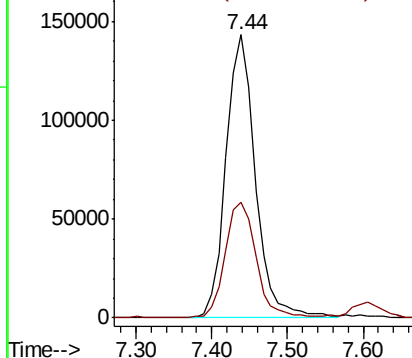


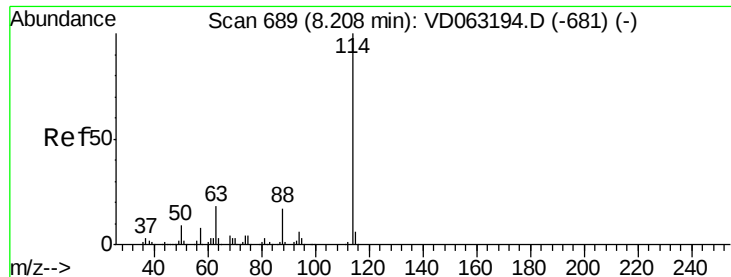
#33
1,2-Dichloroethane-d4
Concen: 49.127 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.00 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

Tgt Ion: 65 Resp: 383966
Ion Ratio Lower Upper
65 100
67 41.0 0.0 85.8



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T3-2

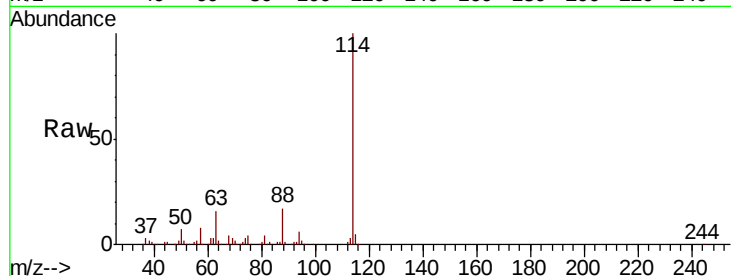
Tot Ion:114 Resp: 1122501

Ion Ratio Lower Upper

114 100

63 16.2 0.0 35.2

88 17.0 0.0 34.6



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

600000

500000

400000

300000

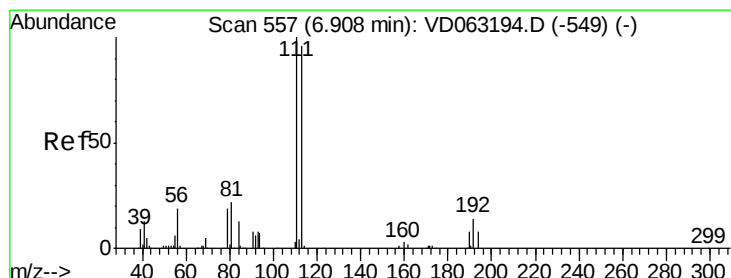
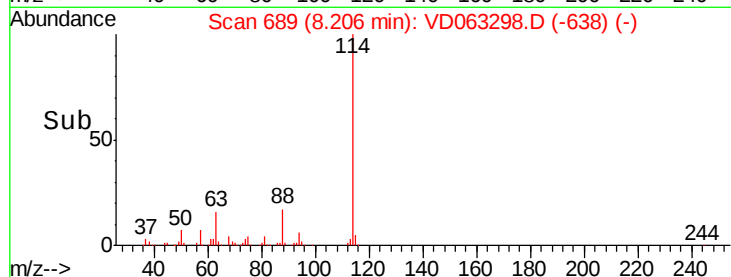
200000

100000

0

8.10 8.20 8.30 8.40

Time-->



#35

Dibromofluoromethane

Concen: 44.737 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

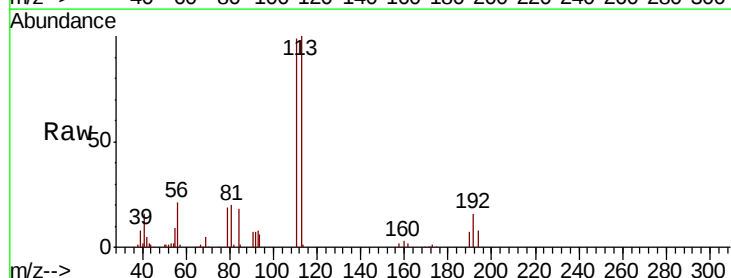
Tgt Ion:113 Resp: 428749

Ion Ratio Lower Upper

113 100

111 98.6 83.2 124.8

192 16.2 11.8 17.8



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

200000

150000

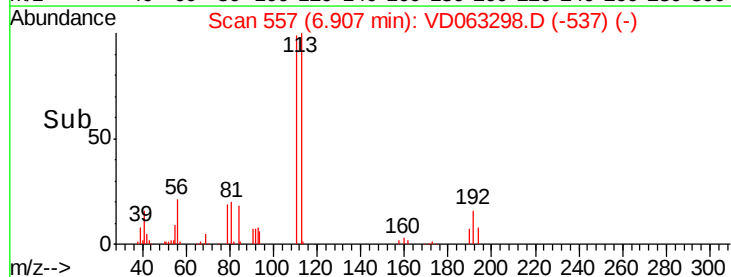
100000

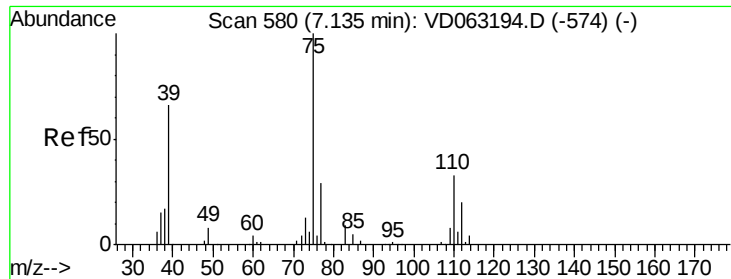
50000

0

6.80 6.90 7.00 7.10

Time-->





#36

1,1-Dichloropropene

Concen: 5.132 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.11 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T3-2

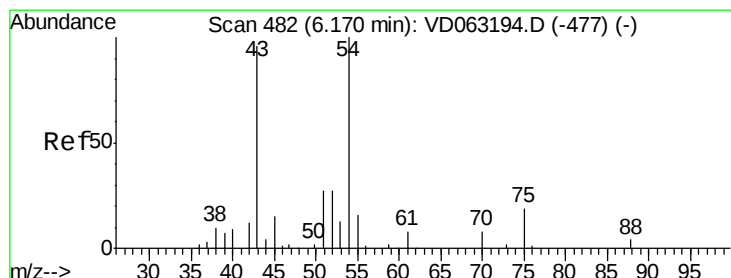
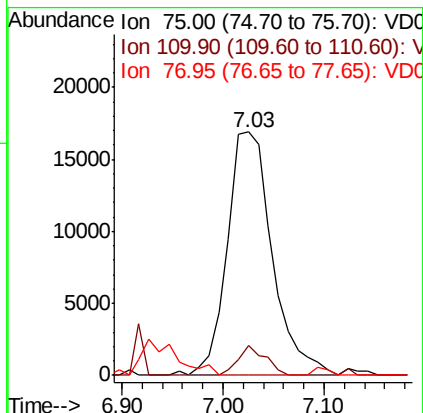
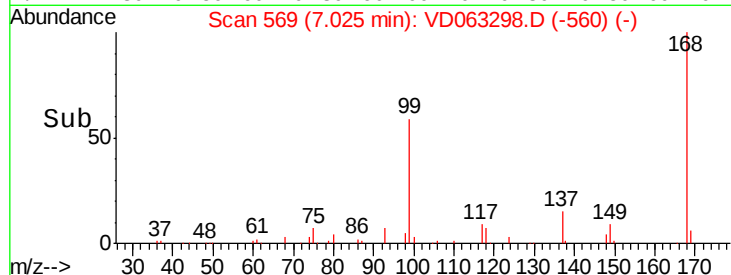
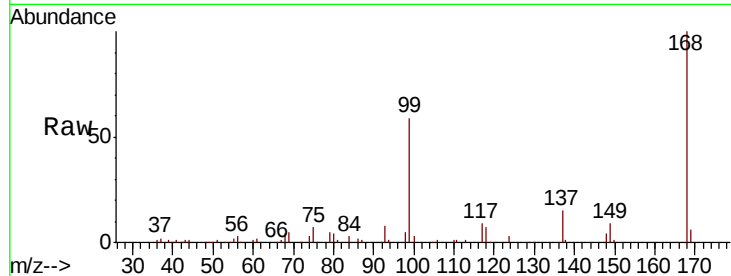
Tot Ion: 75 Resp: 52577

Ion Ratio Lower Upper

75 100

110 12.4 16.1 48.2#

77 0.0 22.7 34.1#



#37

Ethyl Acetate

Concen: 1.676 ug/l

RT: 6.14 min Scan# 479

Delta R.T. -0.03 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

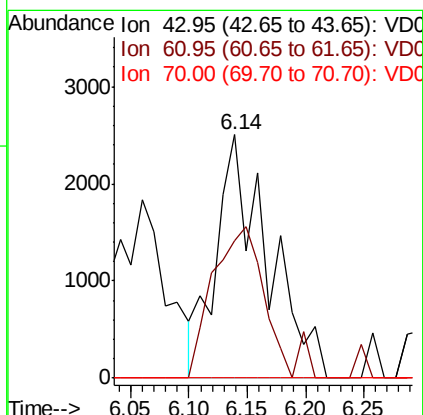
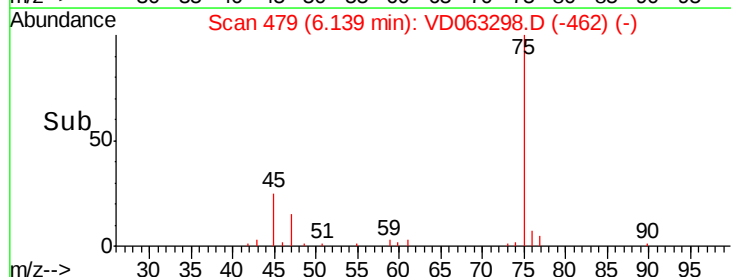
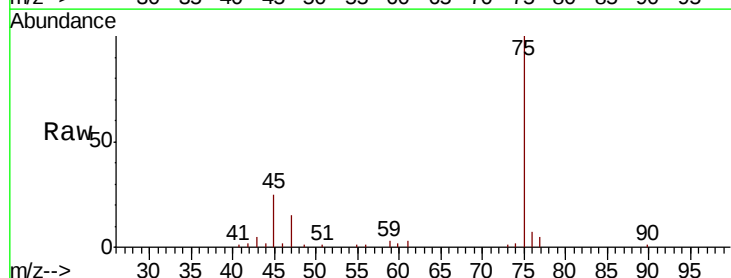
Tgt Ion: 43 Resp: 7712

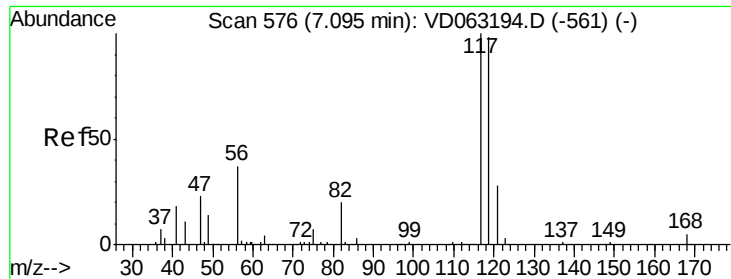
Ion Ratio Lower Upper

43 100

61 56.3 11.3 16.9#

70 0.0 5.1 7.7#





#38

Carbon Tetrachloride

Concen: 4.287 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T3-2

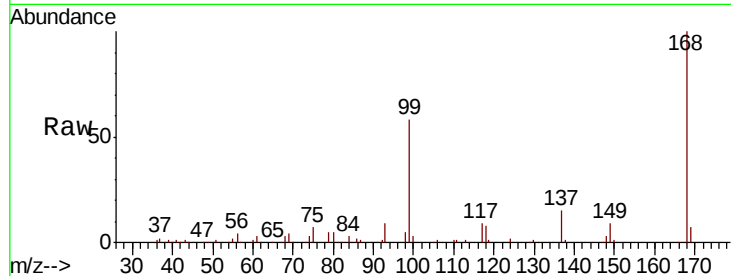
Tot Ion:117 Resp: 66117

Ion Ratio Lower Upper

117 100

119 10.0 78.2 117.2#

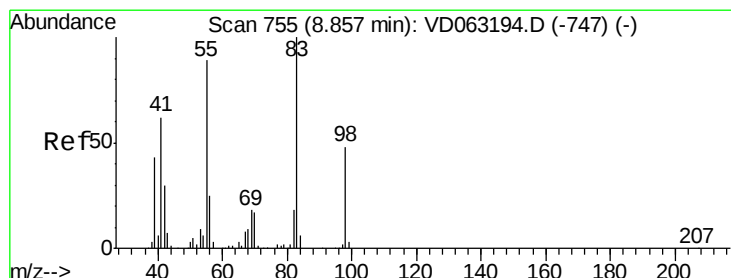
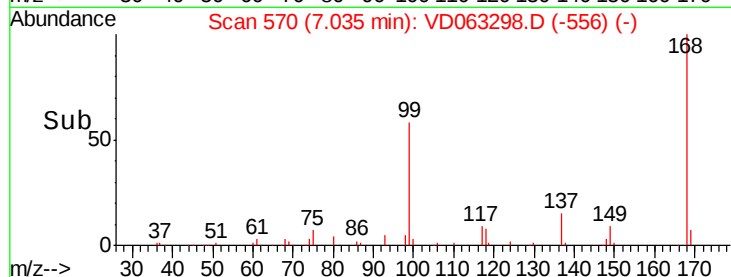
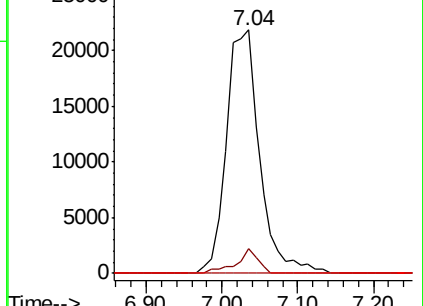
121 0.0 22.1 33.1#



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



#39

Methylcyclohexane

Concen: 6.292 ug/l

RT: 8.86 min Scan# 755

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

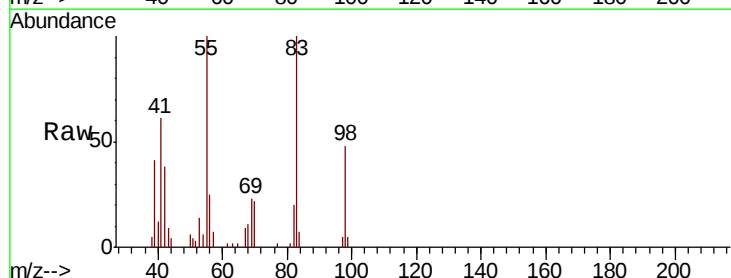
Tgt Ion: 83 Resp: 53704

Ion Ratio Lower Upper

83 100

55 100.4 71.1 106.7

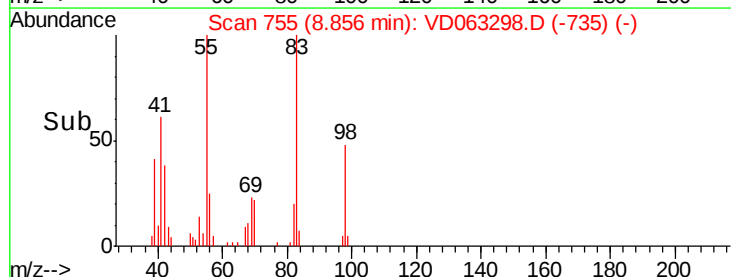
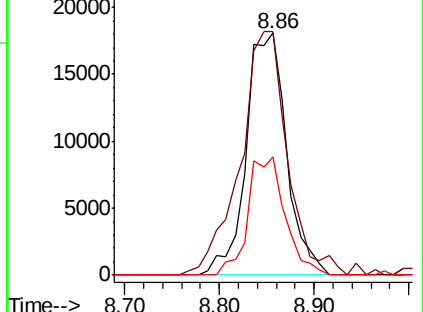
98 48.6 38.5 57.7

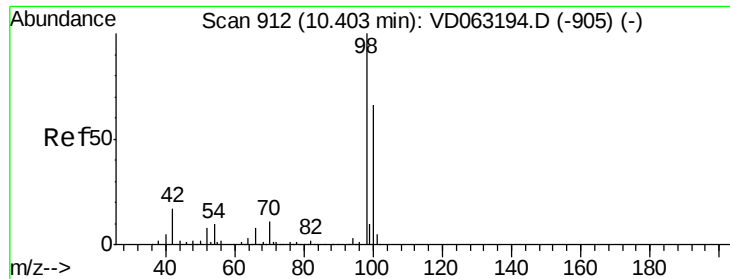


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

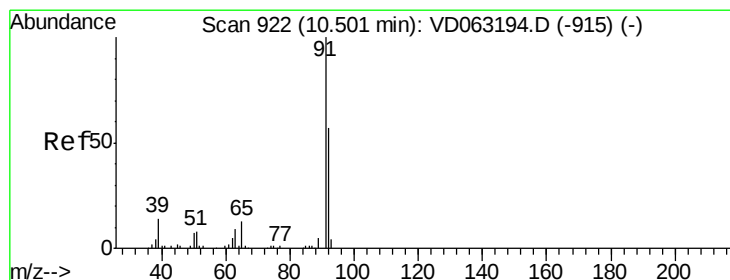
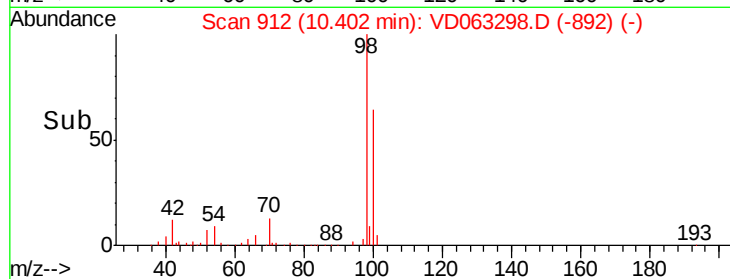
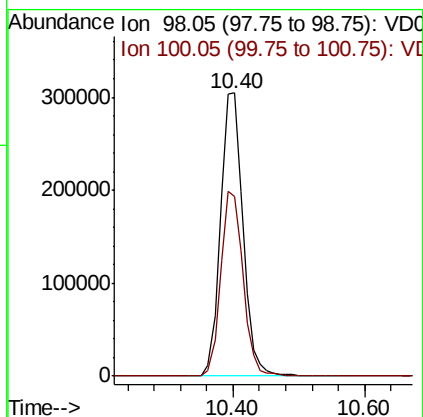
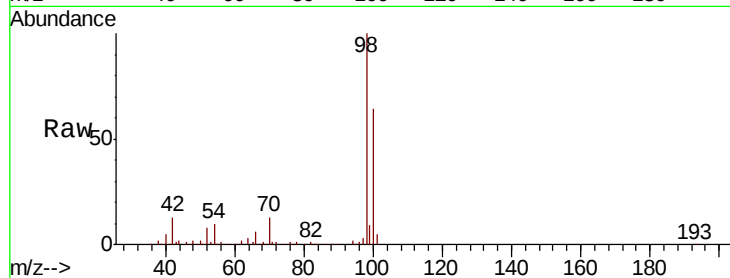




#50
Toluene-d8
Concen: 33.848 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

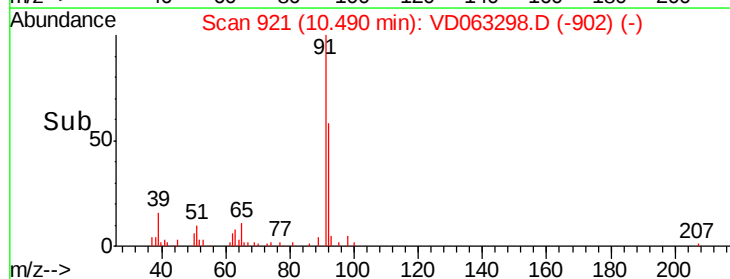
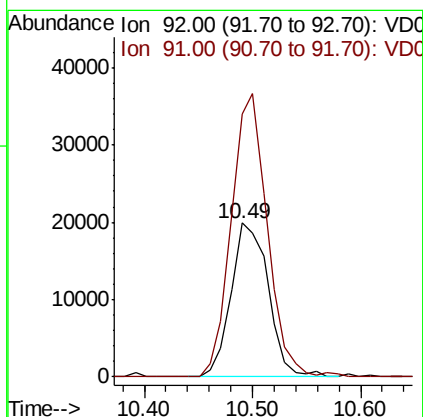
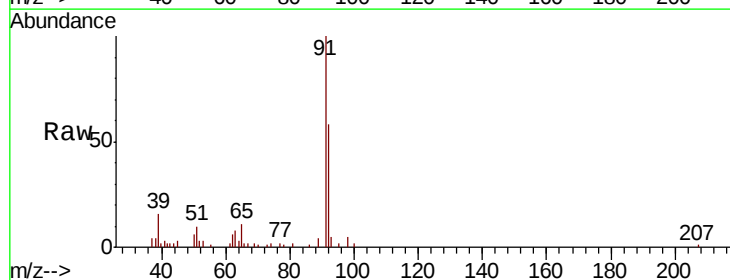
Instrument :
MSVOA_D
ClientSampled :
T3-2

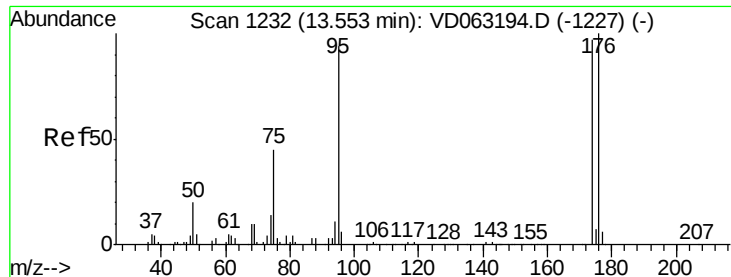
Tot Ion: 98 Resp: 725988
Ion Ratio Lower Upper
98 100
100 63.6 53.2 79.8



#52
Toluene
Concen: 3.322 ug/l
RT: 10.49 min Scan# 921
Delta R.T. -0.01 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

Tgt Ion: 92 Resp: 47441
Ion Ratio Lower Upper
92 100
91 171.0 140.8 211.2





#62

4-Bromofluorobenzene

Concen: 18.427 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T3-2

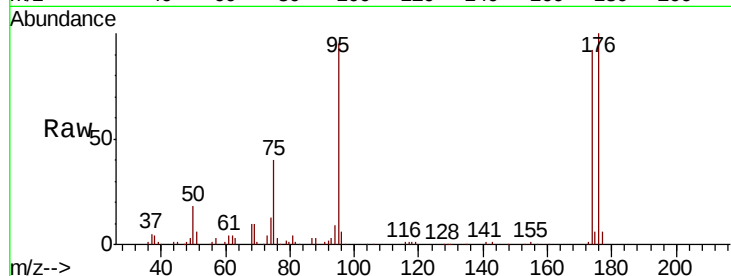
Tot Ion: 95 Resp: 180107

Ion Ratio Lower Upper

95 100

174 97.3 0.0 205.4

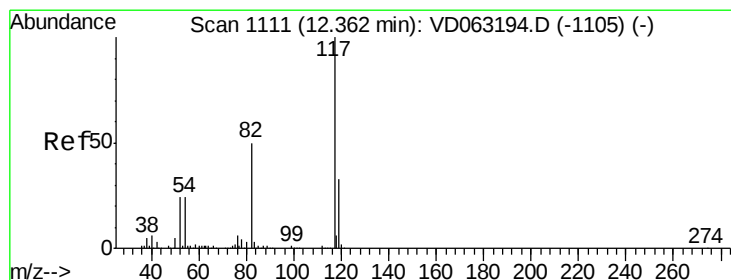
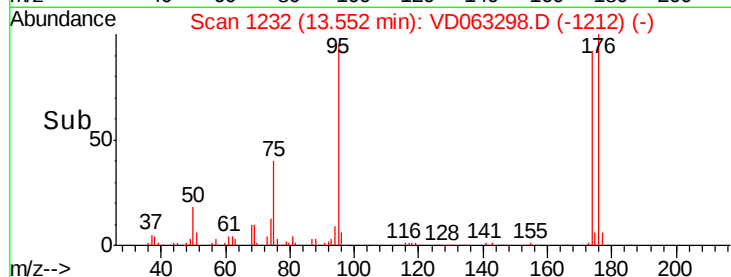
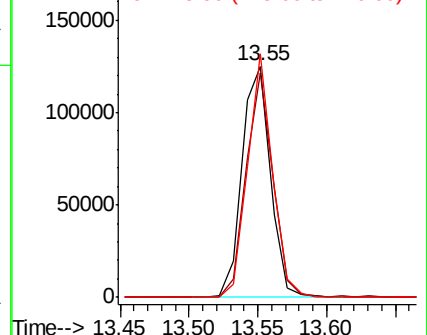
176 105.4 0.0 211.8



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# 1111

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

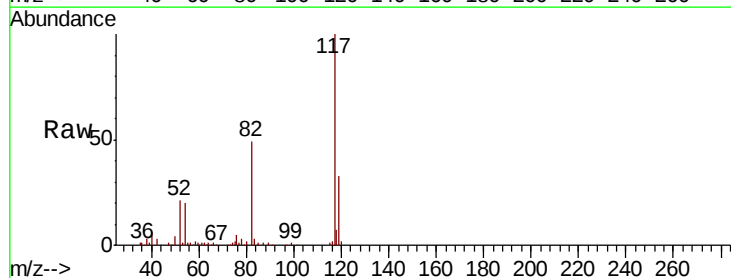
Tgt Ion: 117 Resp: 688965

Ion Ratio Lower Upper

117 100

82 48.7 40.1 60.1

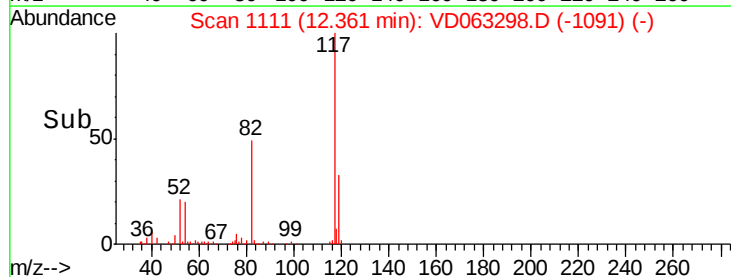
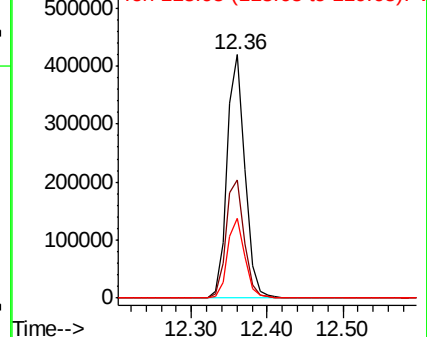
119 32.7 26.5 39.7

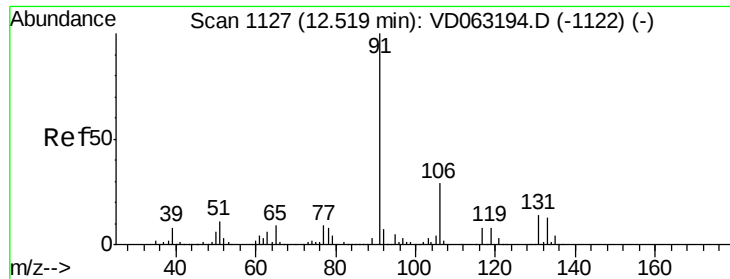


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

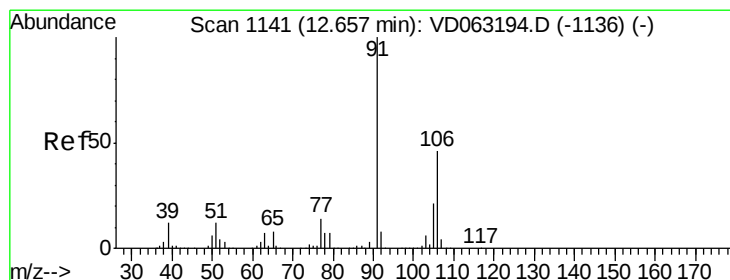
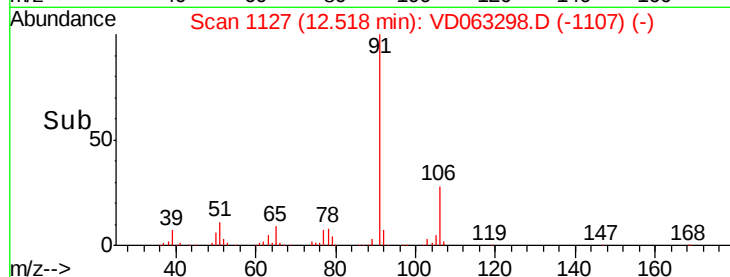
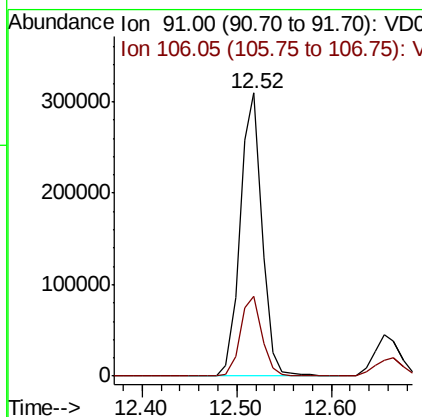
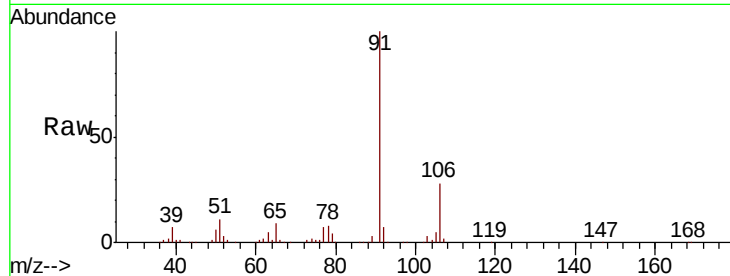




#67
Ethyl Benzene
Concen: 21.915 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

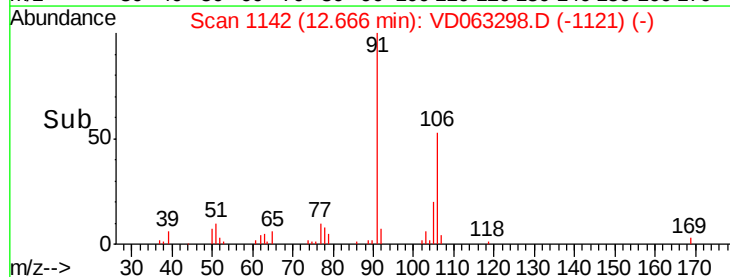
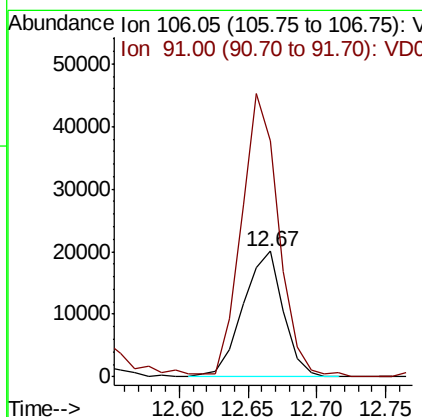
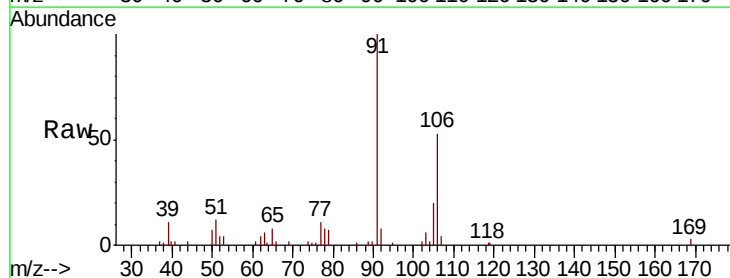
Instrument :
MSVOA_D
ClientSampleId :
T3-2

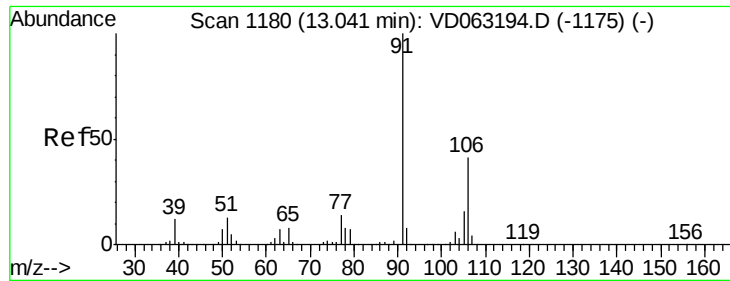
Tot Ion: 91 Resp: 493357
Ion Ratio Lower Upper
91 100
106 28.0 22.9 34.3



#68
m/p-Xylenes
Concen: 4.962 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

Tgt Ion:106 Resp: 40968
Ion Ratio Lower Upper
106 100
91 187.4 172.6 259.0

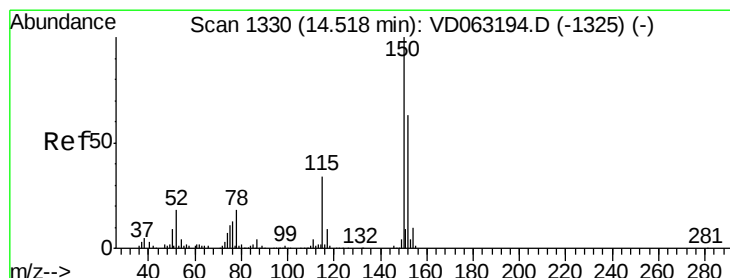
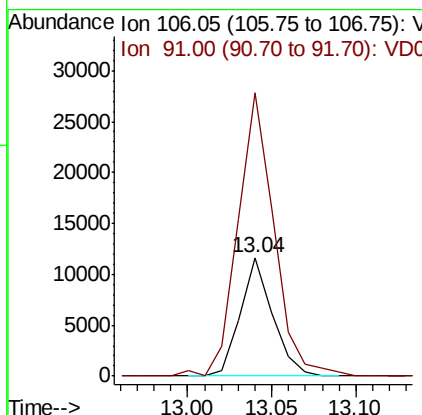
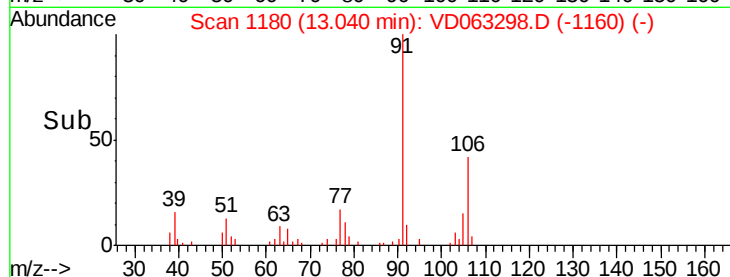
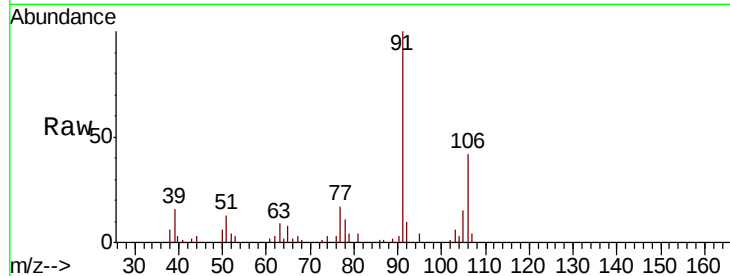




#69
o-Xylene
Concen: 2.041 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

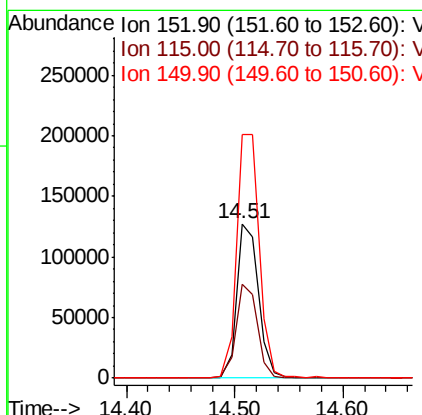
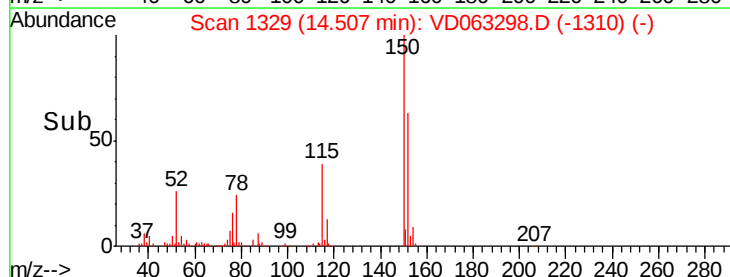
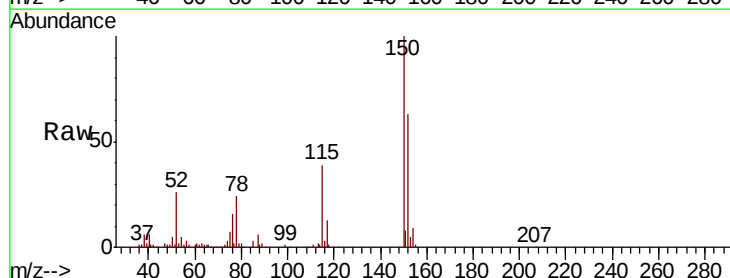
Instrument :
MSVOA_D
ClientSampleId :
T3-2

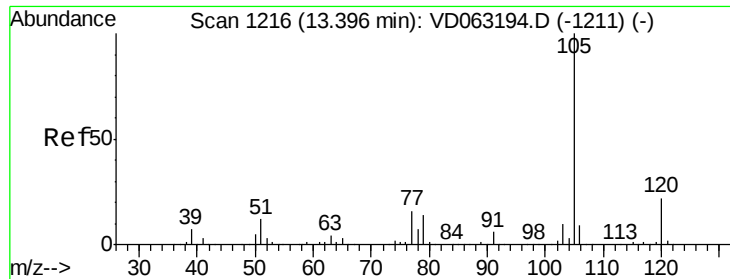
Tot Ion:106 Resp: 15476
Ion Ratio Lower Upper
106 100
91 239.0 121.3 363.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063298.D
Acq: 1 Aug 2019 17:51

Tgt Ion:152 Resp: 177951
Ion Ratio Lower Upper
152 100
115 61.0 27.5 82.4
150 157.8 0.0 320.6





#73

Isopropylbenzene

Concen: 3.616 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

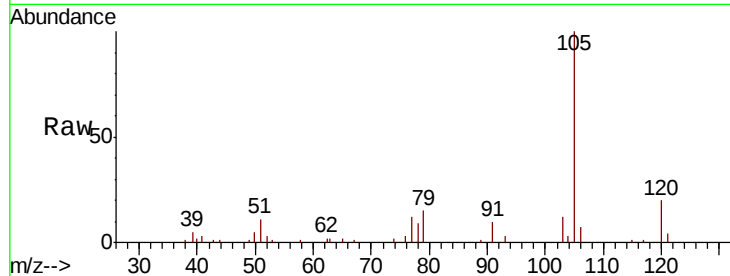
T3-2

Tot Ion:105 Resp: 40381

Ion Ratio Lower Upper

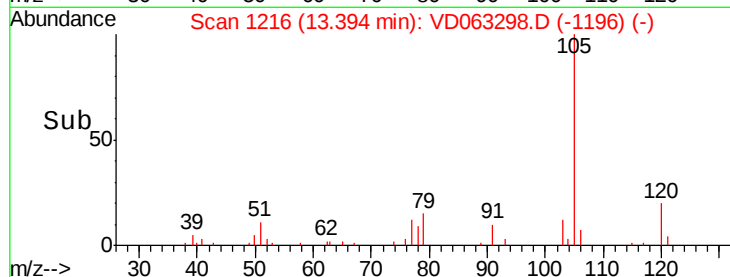
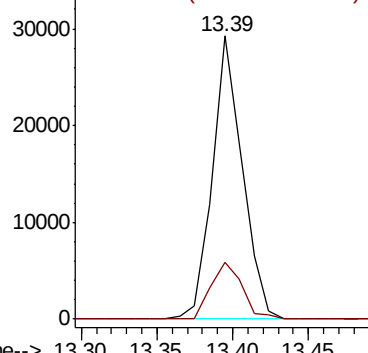
105 100

120 20.3 11.1 33.3

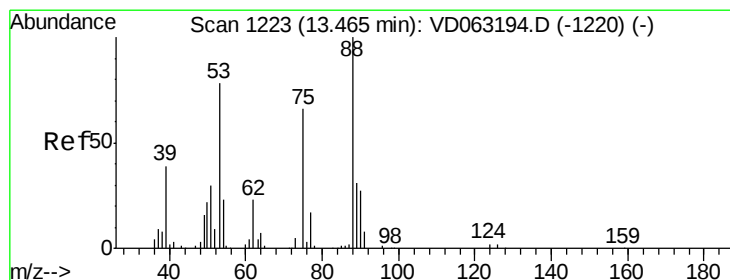


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



Time--> 13.30 13.35 13.40 13.45



#81

trans-1,4-Dichloro-2-butene

Concen: 134.801 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063298.D

Acq: 1 Aug 2019 17:51

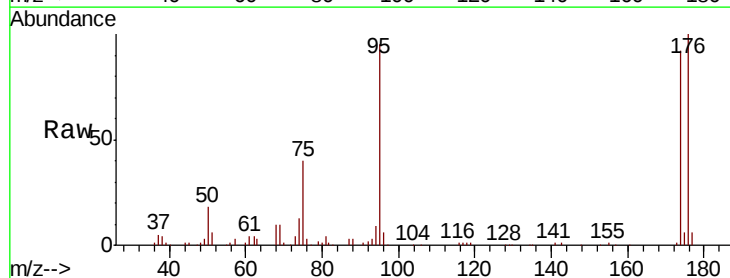
Tgt Ion: 75 Resp: 80007

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

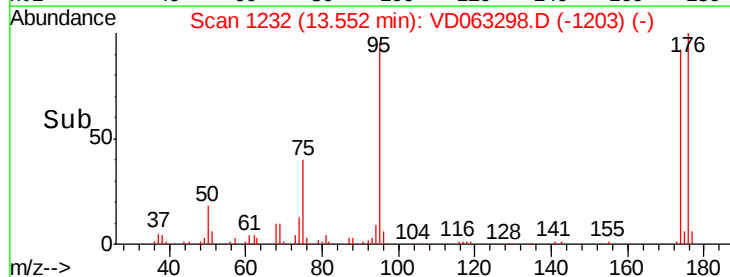
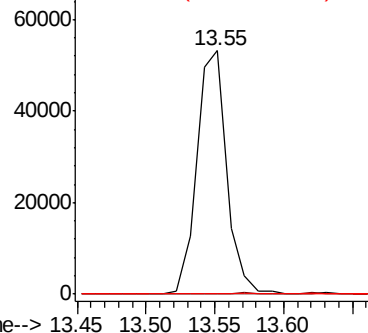
89 0.0 37.4 56.0#



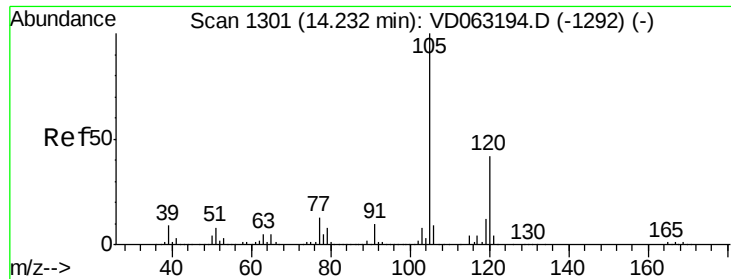
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



Time--> 13.45 13.50 13.55 13.60



#84
 1,2,4-Trimethylbenzene
 Concen: 2.252 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: VD063298.D
 Acq: 1 Aug 2019 17:51

Instrument :
 MSVOA_D
 ClientSampleId :
 T3-2

Tot Ion:105 Resp: 22440
 Ion Ratio Lower Upper
 105 100
 120 36.3 20.9 62.7

