

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080719\
 Data File : VD063427.D
 Acq On : 7 Aug 2019 18:45
 Operator : JC/SY
 Sample : K4208-04RE
 Misc : 5.55g/5ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-01(7-9)RE

Quant Time: Aug 08 08:07:14 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	7.05	168	811488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1086427	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	789498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	266691	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	455919	50.63	ug/l	0.02
Spiked Amount			Recovery	=	101.26%	
35) Dibromofluoromethane	6.93	113	490988	52.93	ug/l	0.02
Spiked Amount			Recovery	=	105.86%	
50) Toluene-d8	10.41	98	920883	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	
62) 4-Bromofluorobenzene	13.55	95	269875	28.53	ug/l	0.00
Spiked Amount			Recovery	=	57.06%	

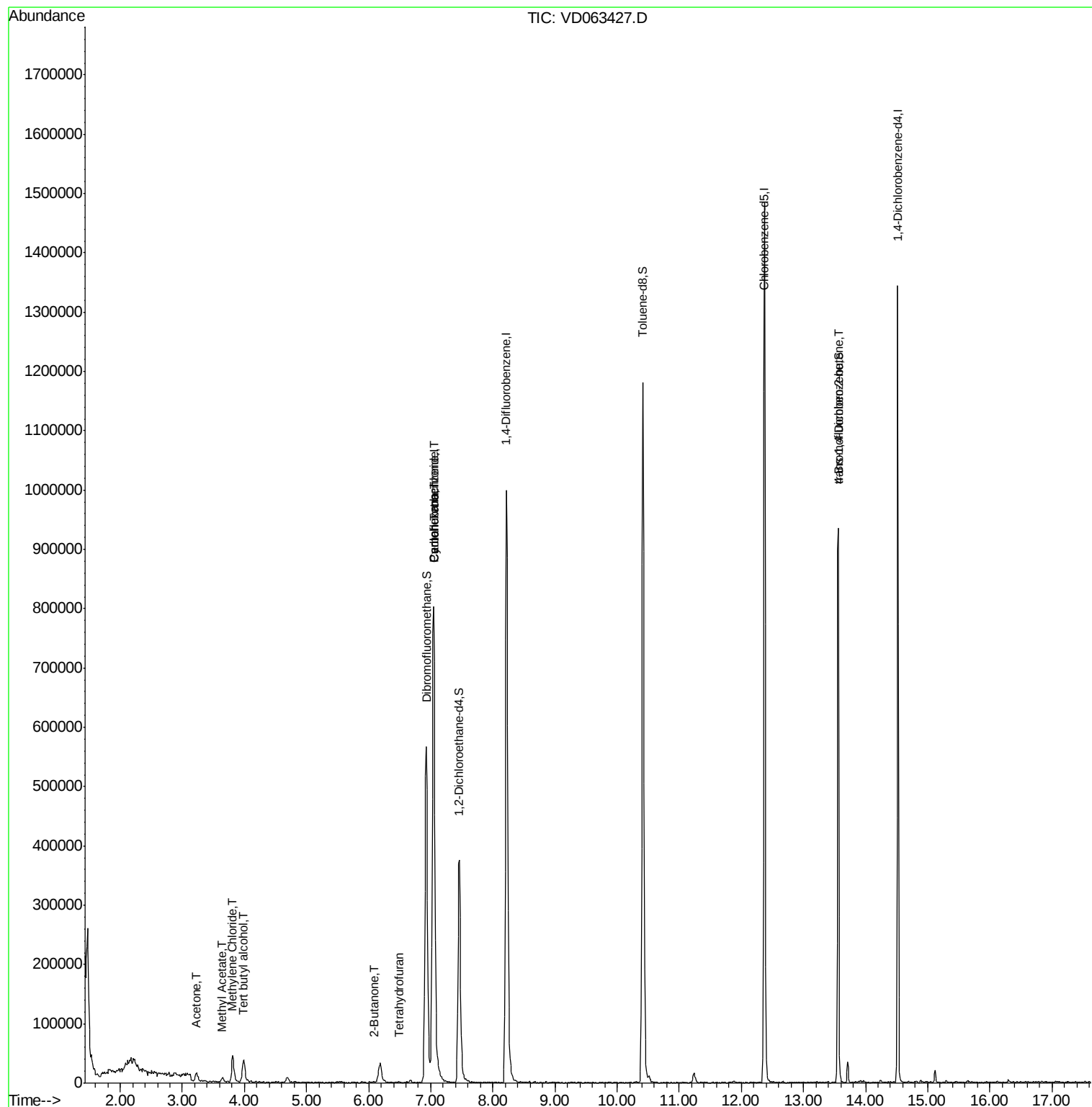
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.98	59	33508	84.798	ug/l #	69
16) Acetone	3.23	43	27930	15.920	ug/l #	85
18) Methyl Acetate	3.65	43	12048	3.575	ug/l #	85
20) Methylene Chloride	3.81	84	25965	3.661	ug/l	87
25) 2-Butanone	6.08	43	2140	1.215	ug/l #	56
29) Tetrahydrofuran	6.48	42	1342	1.610	ug/l #	56
31) Cyclohexane	7.05	56	19020	2.371	ug/l #	1
38) Carbon Tetrachloride	7.05	117	82963	5.558	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	126118	141.787	ug/l #	3

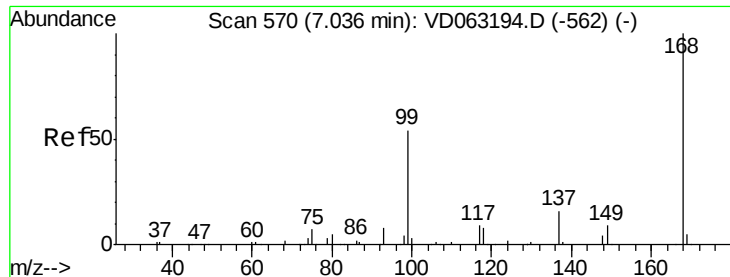
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

Instrument :

MSVOA_D

ClientSampleId :

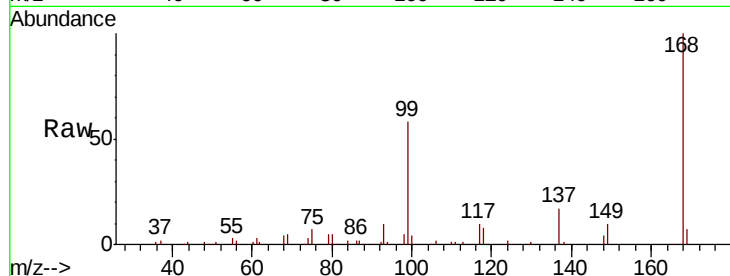
SB-01(7-9)RE

Tgt Ion:168 Resp: 811488

Ion Ratio Lower Upper

168 100

99 58.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

250000

200000

150000

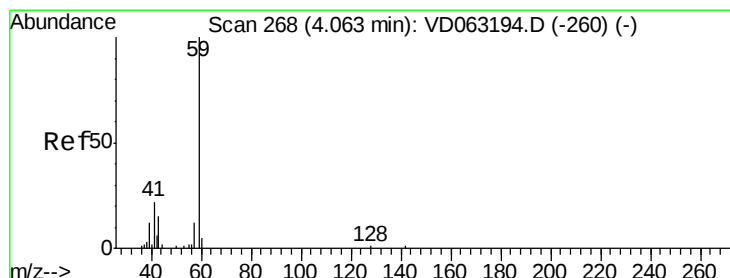
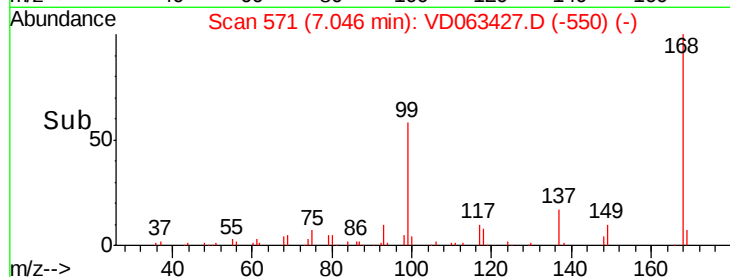
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 84.798 ug/l

RT: 3.98 min Scan# 260

Delta R.T. -0.08 min

Lab File: VD063427.D

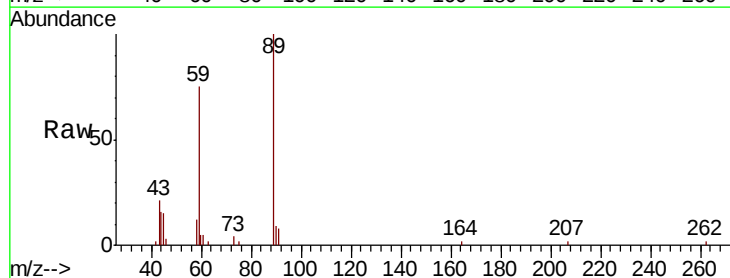
Acq: 7 Aug 2019 18:45

Tgt Ion: 59 Resp: 33508

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

12000

10000

8000

6000

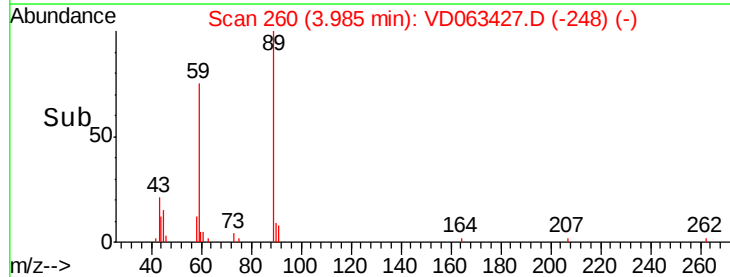
4000

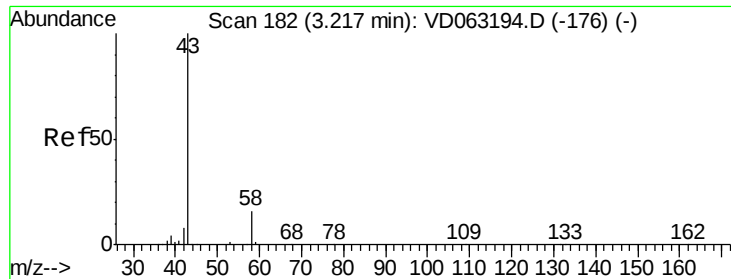
2000

0

Time-->

3.90 4.00 4.10





#16

Acetone

Concen: 15.920 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

Instrument :

MSVOA_D

ClientSampleId :

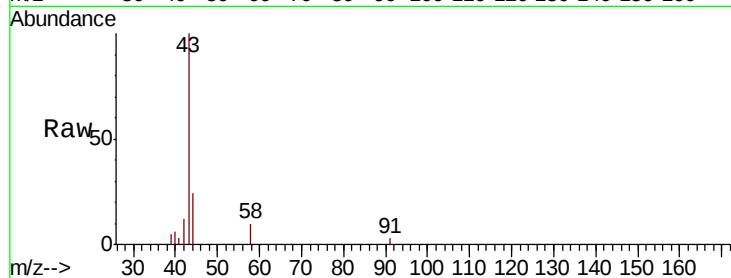
SB-01(7-9)RE

Tgt Ion: 43 Resp: 27930

Ion Ratio Lower Upper

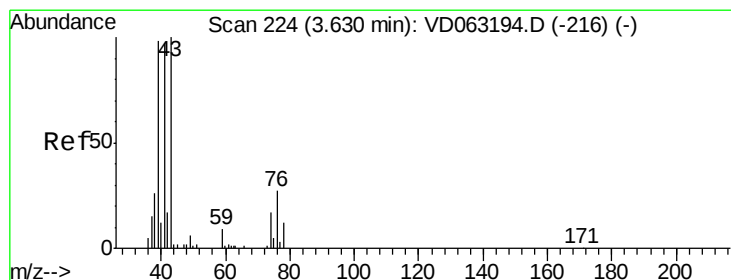
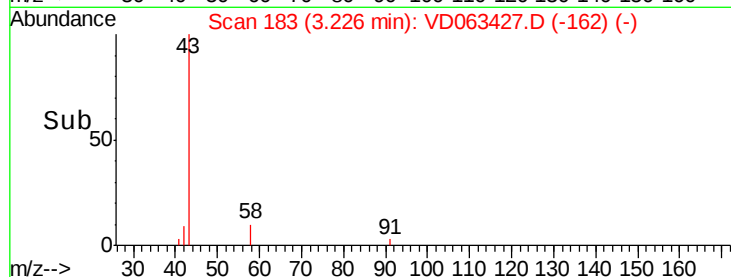
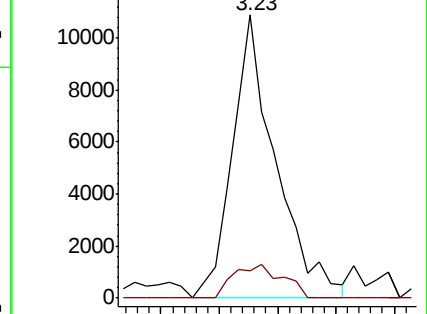
43 100

58 9.8 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: 3.575 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD063427.D

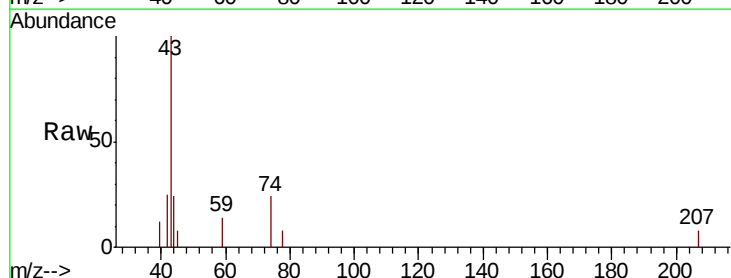
Acq: 7 Aug 2019 18:45

Tgt Ion: 43 Resp: 12048

Ion Ratio Lower Upper

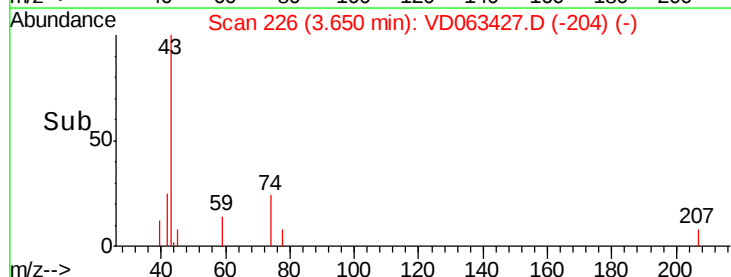
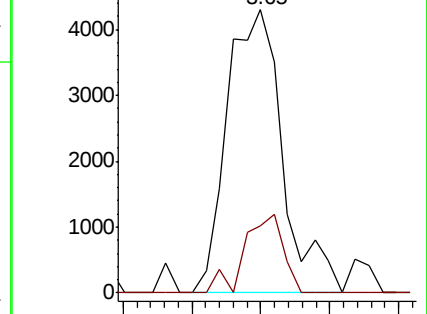
43 100

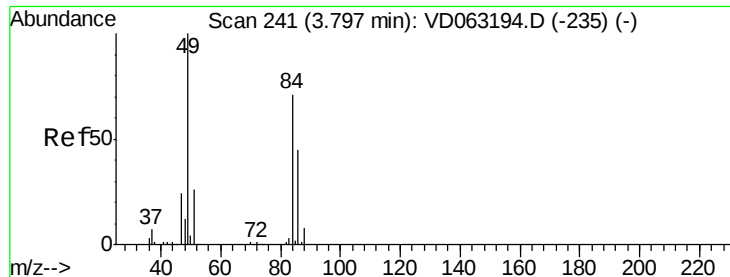
74 23.7 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

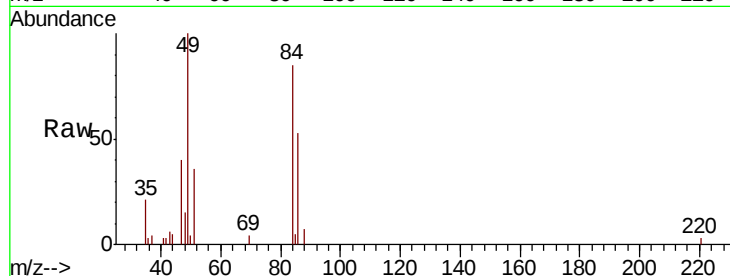




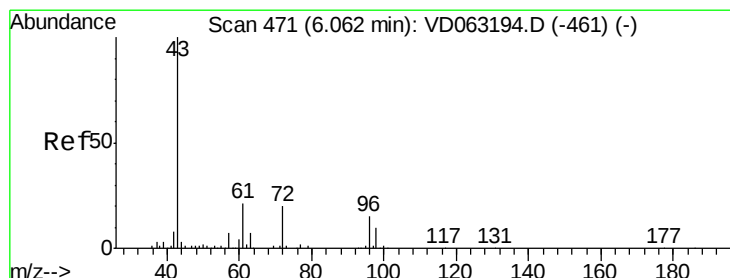
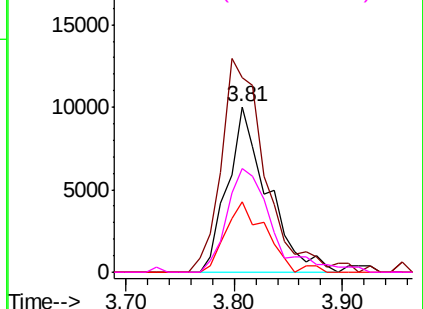
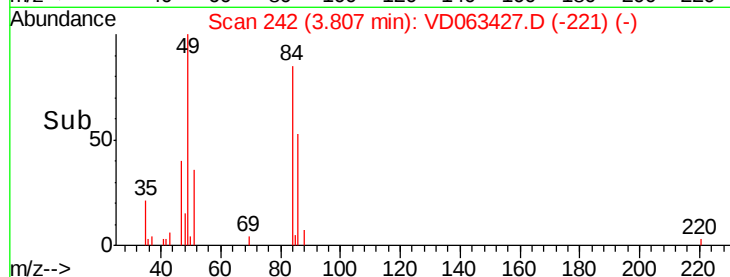
#20
Methylene Chloride
Concen: 3.661 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063427.D
Acq: 7 Aug 2019 18:45

Instrument :
MSVOA_D
ClientSampleId :
SB-01(7-9)RE

Tgt Ion: 84 Resp: 25965
Ion Ratio Lower Upper
84 100
49 117.4 112.5 168.7
51 42.7 29.6 44.4
86 62.6 50.4 75.6

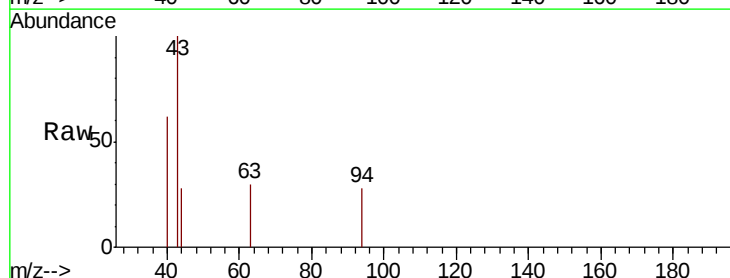


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

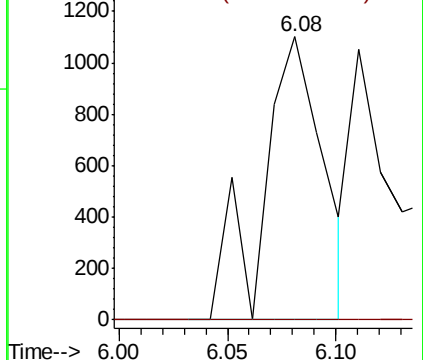
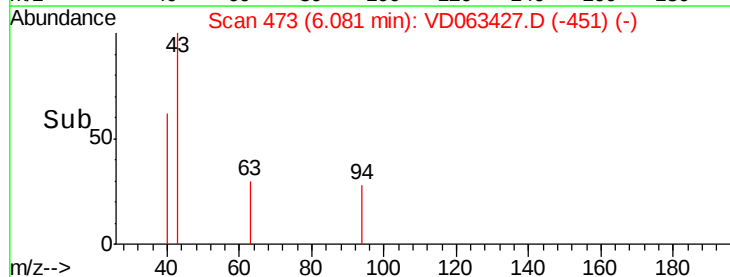


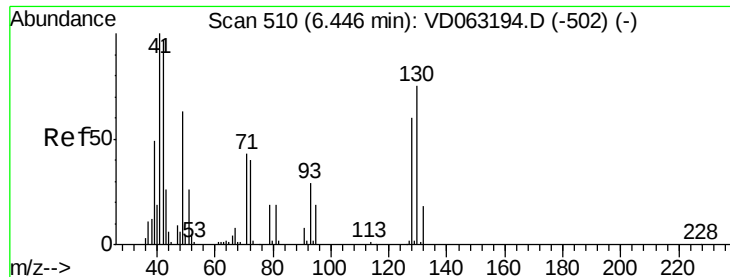
#25
2-Butanone
Concen: 1.215 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.02 min
Lab File: VD063427.D
Acq: 7 Aug 2019 18:45

Tgt Ion: 43 Resp: 2140
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: 1.610 ug/l

RT: 6.48 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

Instrument :

MSVOA_D

ClientSampleId :

SB-01(7-9)RE

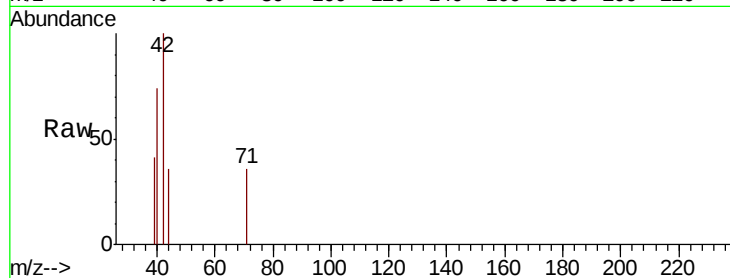
Tgt Ion: 42 Resp: 1342

Ion Ratio Lower Upper

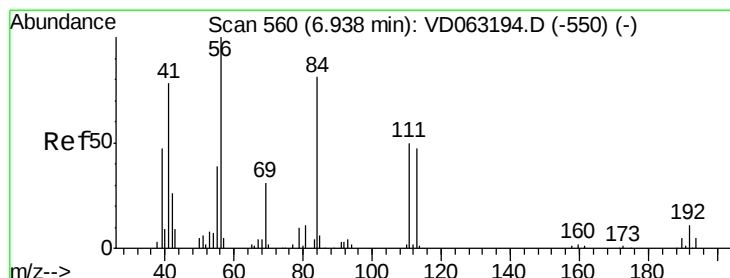
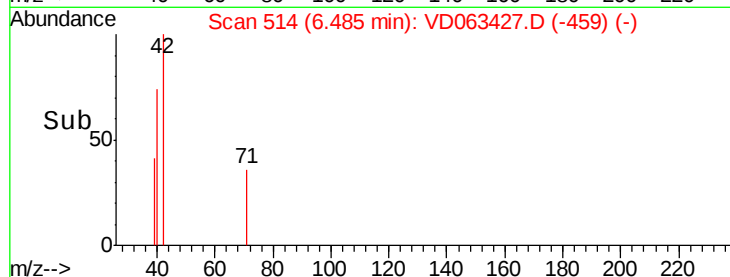
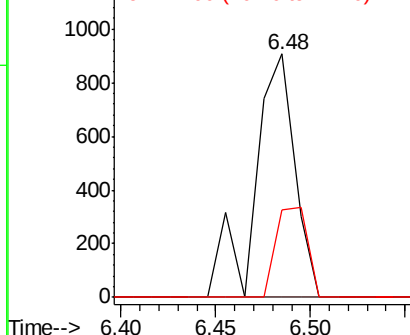
42 100

72 0.0 33.4 50.2#

71 29.1 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: 2.371 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

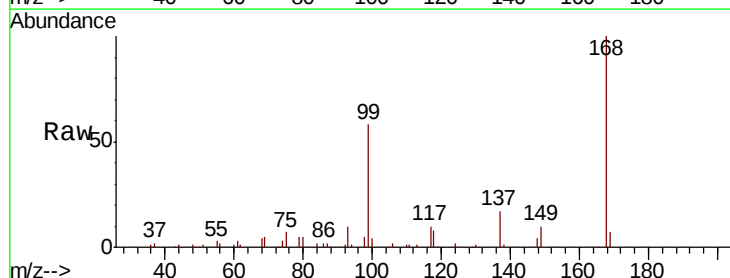
Tgt Ion: 56 Resp: 19020

Ion Ratio Lower Upper

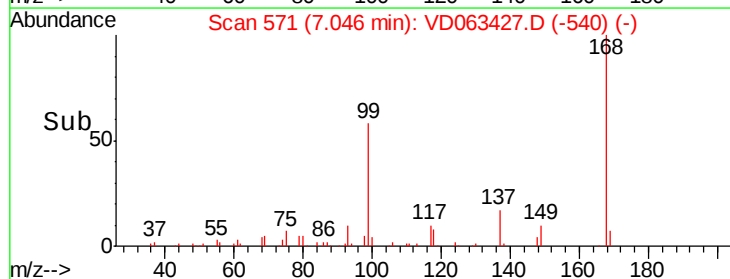
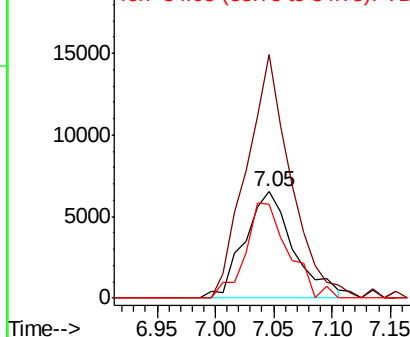
56 100

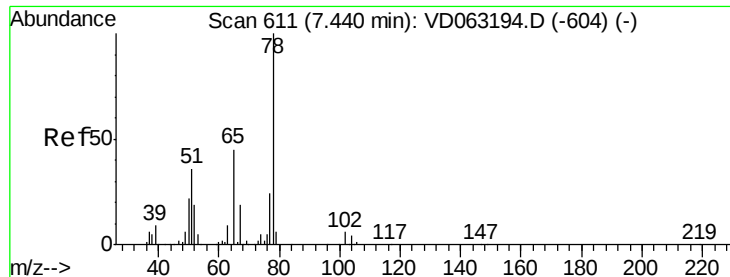
69 228.9 24.5 36.7#

84 88.8 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: 50.634 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

Instrument :

MSVOA_D

ClientSampleId :

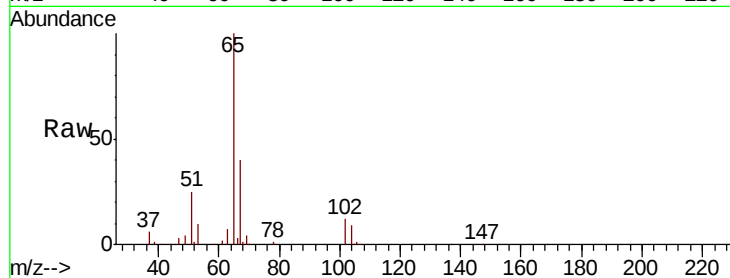
SB-01(7-9)RE

Tgt Ion: 65 Resp: 455919

Ion Ratio Lower Upper

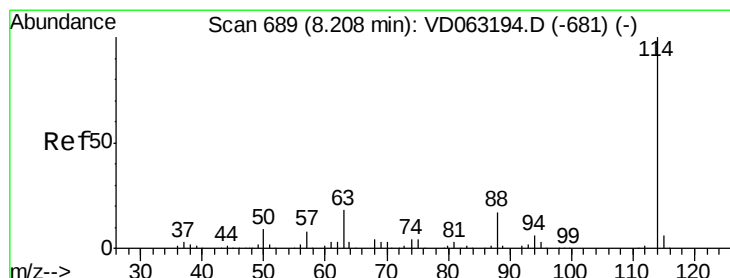
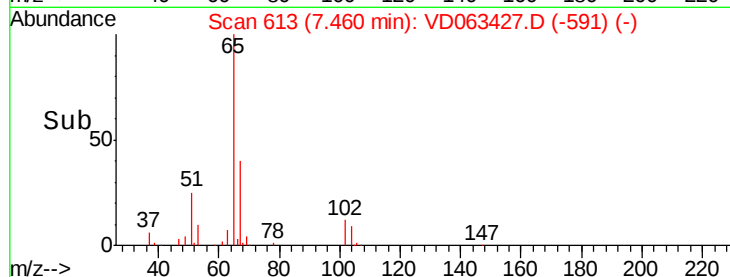
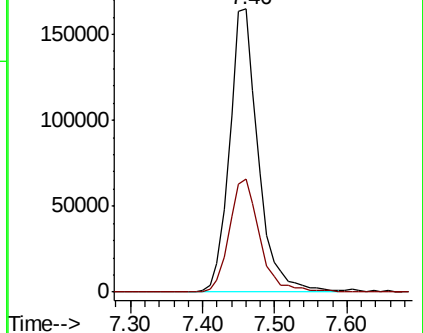
65 100

67 39.8 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: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

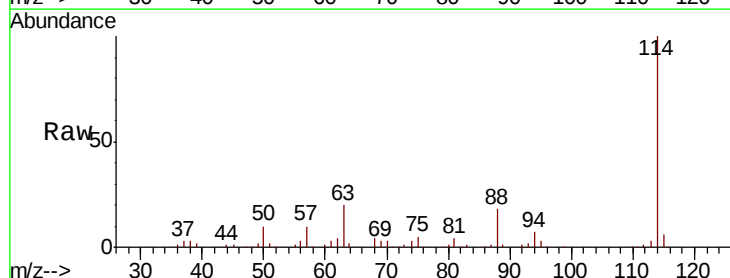
Tgt Ion: 114 Resp: 1086427

Ion Ratio Lower Upper

114 100

63 19.7 0.0 35.2

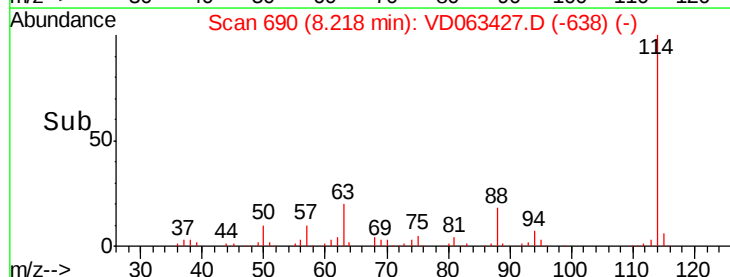
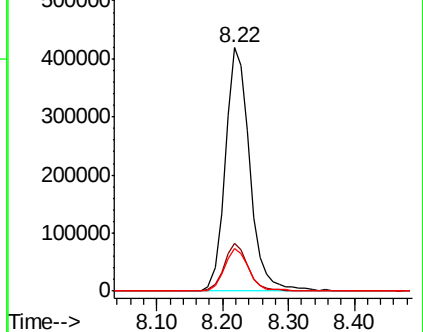
88 17.6 0.0 34.6

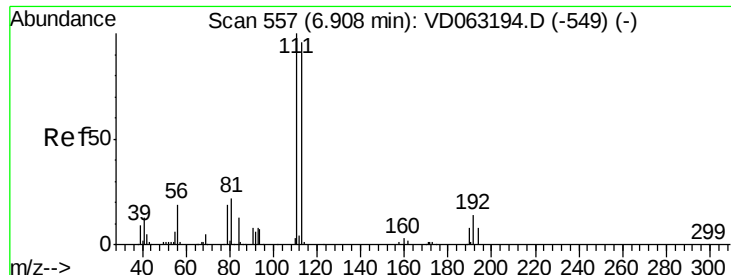


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 52.932 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

Instrument :

MSVOA_D

ClientSampleId :

SB-01(7-9)RE

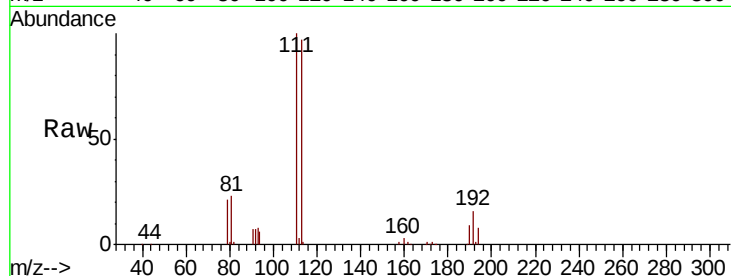
Tgt Ion:113 Resp: 490988

Ion Ratio Lower Upper

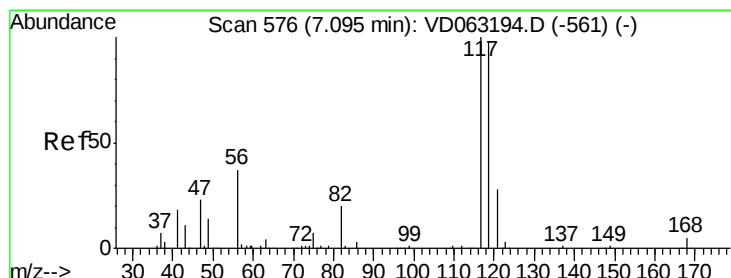
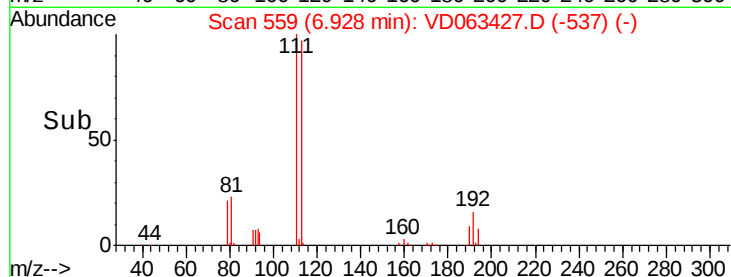
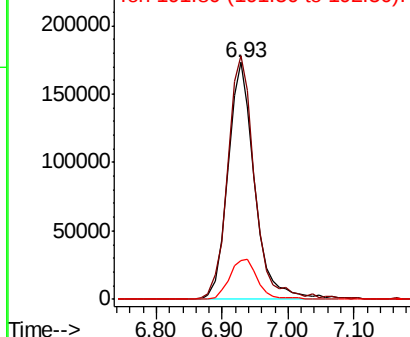
113 100

111 102.9 83.2 124.8

192 16.7 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



#38

Carbon Tetrachloride

Concen: 5.558 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

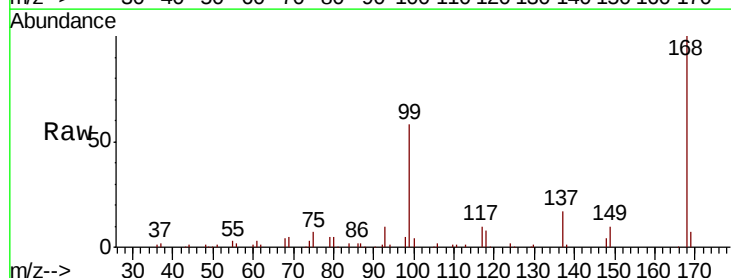
Tgt Ion:117 Resp: 82963

Ion Ratio Lower Upper

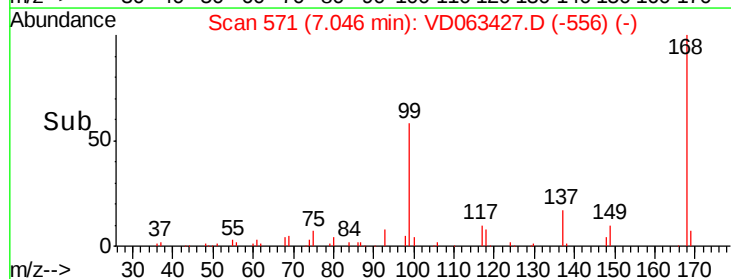
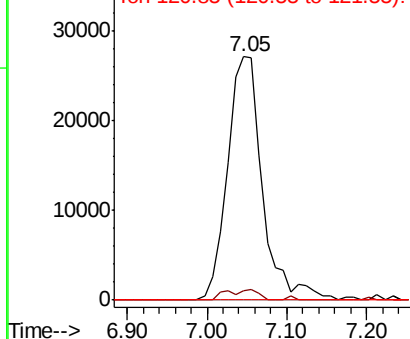
117 100

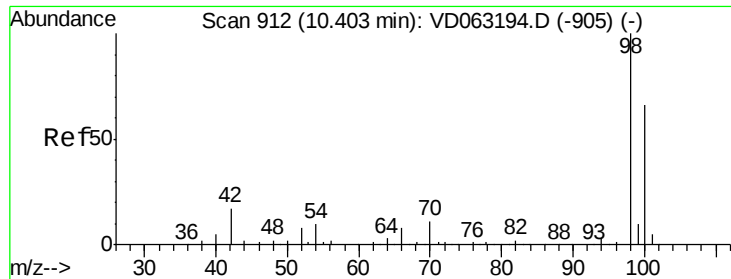
119 3.7 78.2 117.2#

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

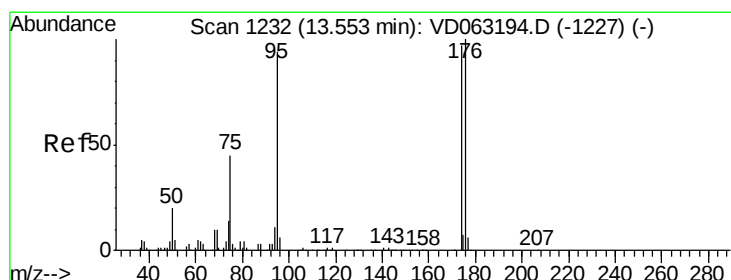
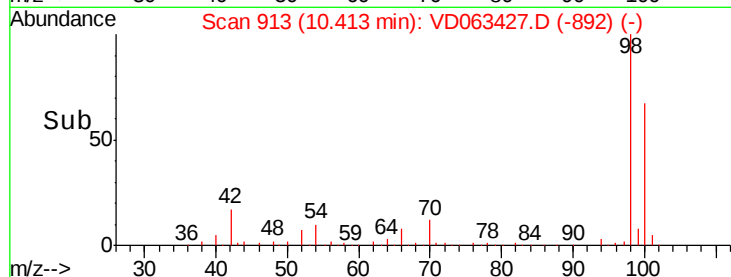
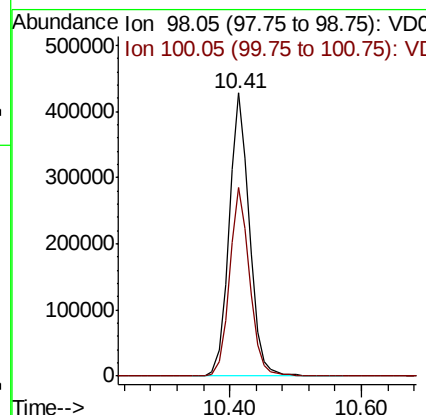
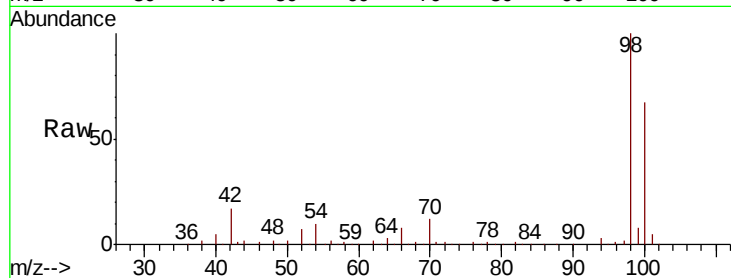




#50
Toluene-d8
Concen: 44.360 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063427.D
Acq: 7 Aug 2019 18:45

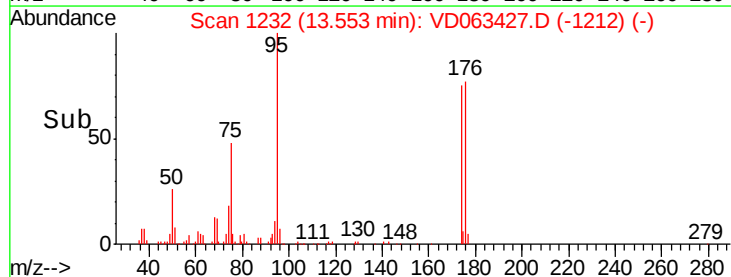
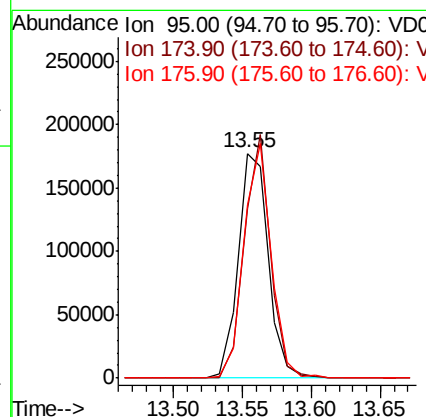
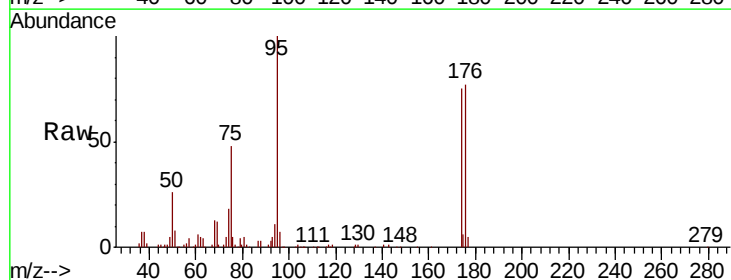
Instrument :
MSVOA_D
ClientSampleId :
SB-01(7-9)RE

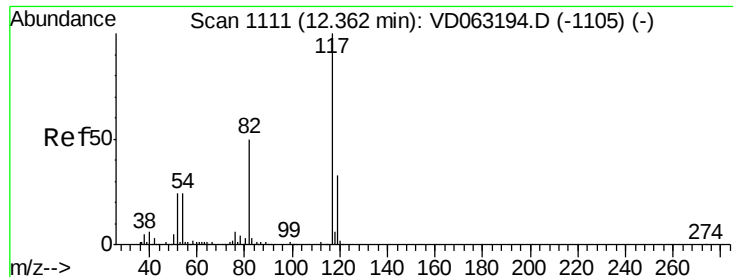
Tgt Ion: 98 Resp: 920883
Ion Ratio Lower Upper
98 100
100 66.6 53.2 79.8



#62
4-Bromofluorobenzene
Concen: 28.528 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063427.D
Acq: 7 Aug 2019 18:45

Tgt Ion: 95 Resp: 269875
Ion Ratio Lower Upper
95 100
174 75.4 0.0 205.4
176 76.9 0.0 211.8

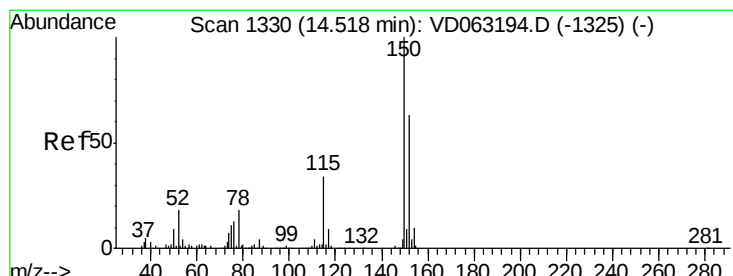
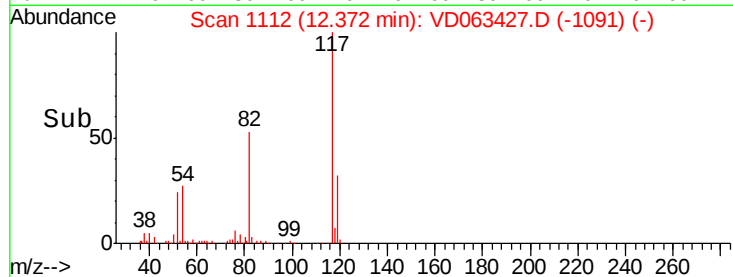
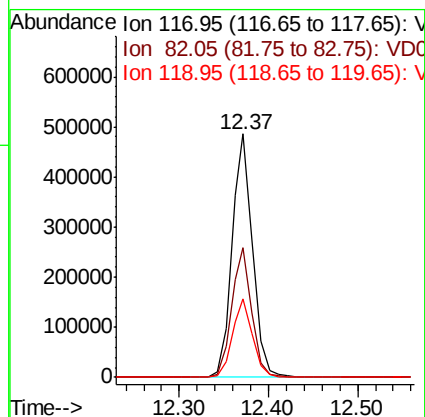
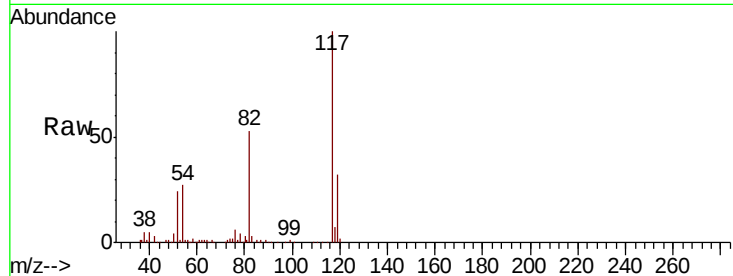




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063427.D
Acq: 7 Aug 2019 18:45

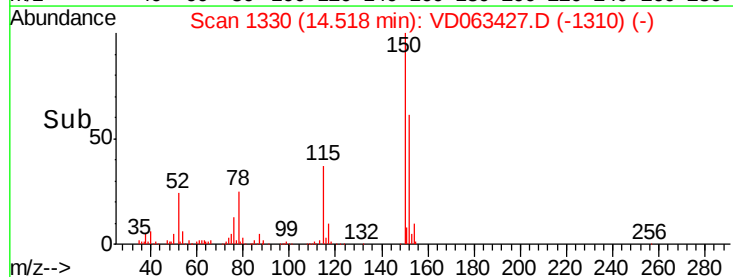
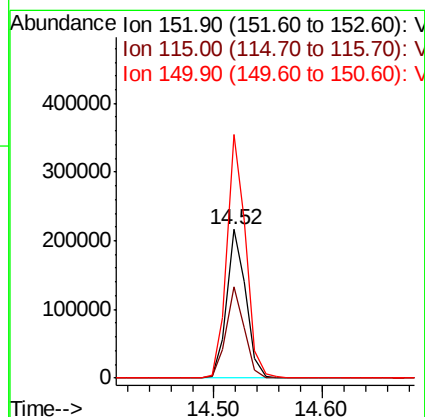
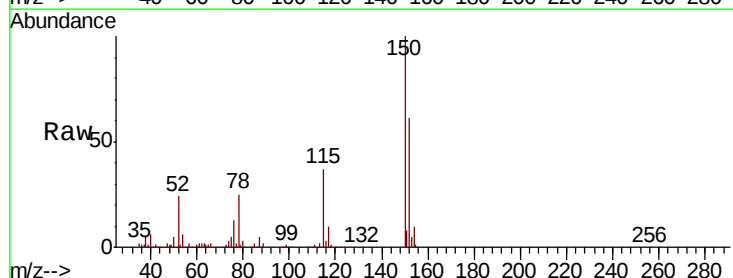
Instrument :
MSVOA_D
ClientSampleId :
SB-01(7-9)RE

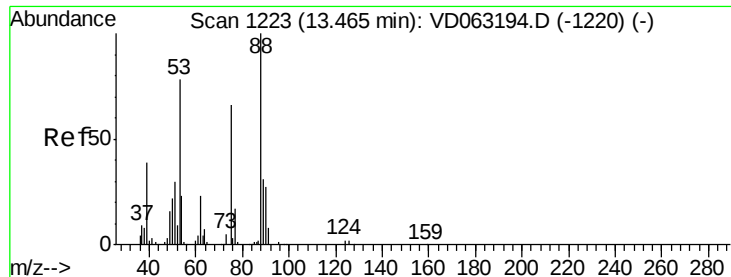
Tgt Ion:117 Resp: 789498
Ion Ratio Lower Upper
117 100
82 53.4 40.1 60.1
119 32.2 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063427.D
Acq: 7 Aug 2019 18:45

Tgt Ion:152 Resp: 266691
Ion Ratio Lower Upper
152 100
115 61.2 27.5 82.4
150 163.6 0.0 320.6





#81

trans-1,4-Dichloro-2-butene

Concen: 141.787 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063427.D

Acq: 7 Aug 2019 18:45

Instrument :

MSVOA_D

ClientSampleId :

SB-01(7-9)RE

Tgt Ion: 75 Resp: 126118

Ion Ratio Lower Upper

75 100

53 0.4 94.9 142.3#

89 0.0 37.4 56.0#

