

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080319\
 Data File : VD063366.D
 Acq On : 3 Aug 2019 17:23
 Operator : VA/AP
 Sample : K4135-03
 Misc : 5.80g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-A2-(0-1)

Quant Time: Aug 04 06:08:26 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	7.04	168	856690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1146980	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	879555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	341239	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	423710	44.57	ug/l	0.01
Spiked Amount			Recovery	=	89.14%	
35) Dibromofluoromethane	6.92	113	452250	46.18	ug/l	0.01
Spiked Amount			Recovery	=	92.36%	
50) Toluene-d8	10.41	98	983639	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	
62) 4-Bromofluorobenzene	13.56	95	361034	36.15	ug/l	0.00
Spiked Amount			Recovery	=	72.30%	

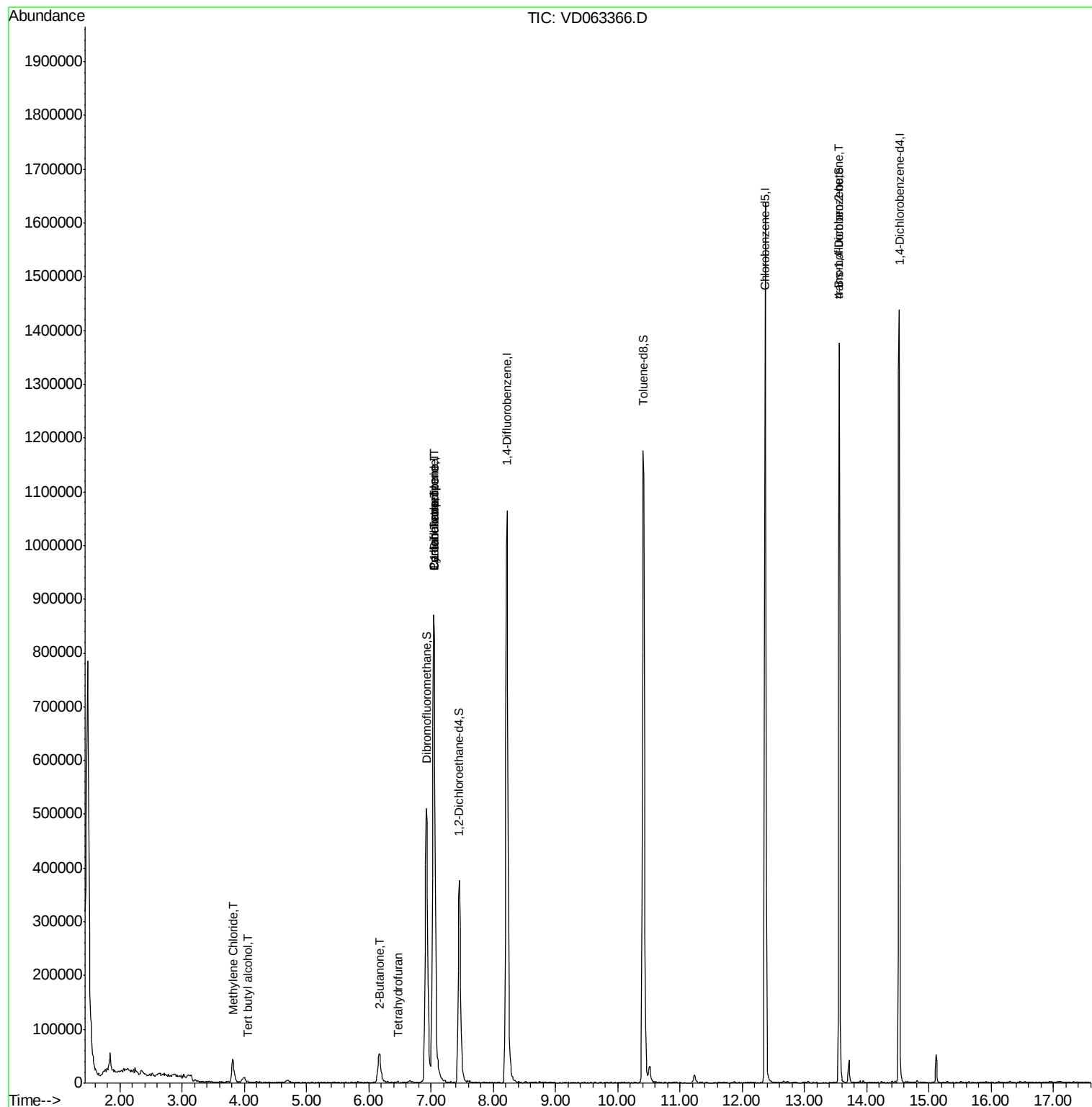
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.05	59	1244	2.982	ug/l #	69
20) Methylene Chloride	3.81	84	26144	3.492	ug/l #	75
25) 2-Butanone	6.18	43	3913	2.105	ug/l #	56
29) Tetrahydrofuran	6.48	42	929	1.056	ug/l #	48
31) Cyclohexane	7.04	56	19265	2.275	ug/l #	10
36) 1,1-Dichloropropene	7.04	75	64062	6.120	ug/l #	52
38) Carbon Tetrachloride	7.04	117	85303	5.413	ug/l #	11
81) trans-1,4-Dichloro-2-buten	13.56	75	174051	152.927	ug/l #	3

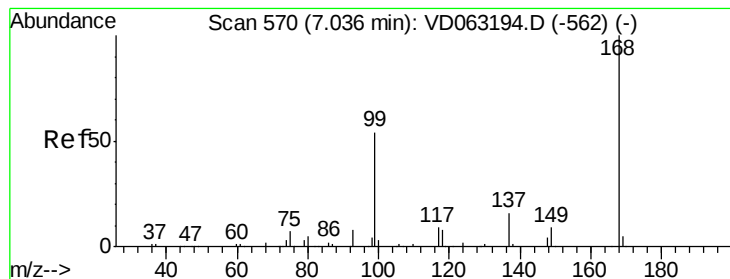
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

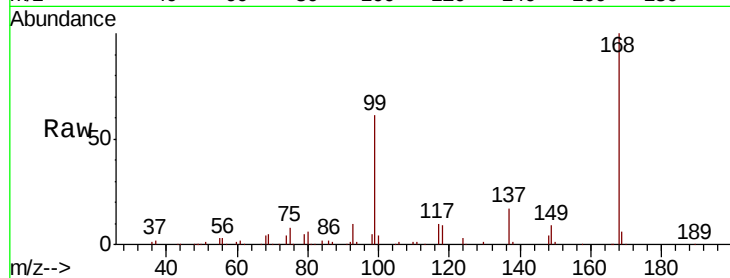
1S-A2-(0-1)

Tgt Ion:168 Resp: 856690

Ion Ratio Lower Upper

168 100

99 61.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

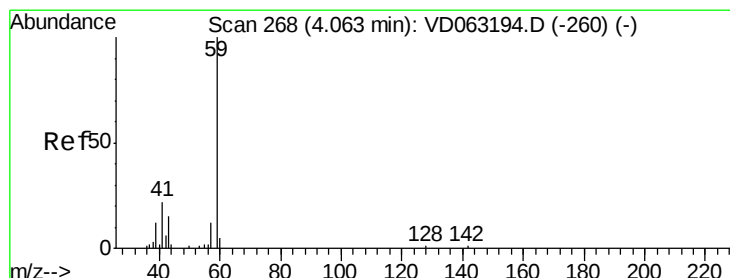
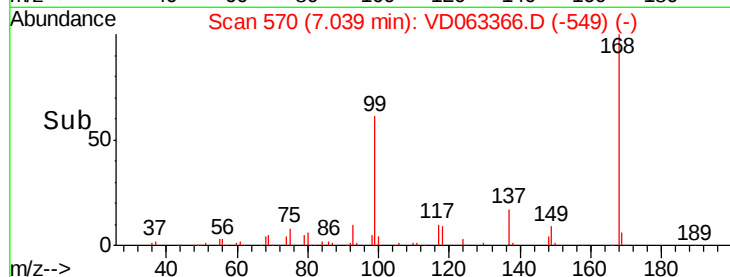
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 2.982 ug/l

RT: 4.05 min Scan# 266

Delta R.T. -0.02 min

Lab File: VD063366.D

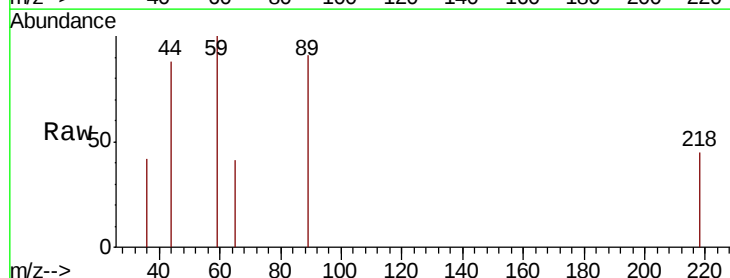
Acq: 3 Aug 2019 17:23

Tgt Ion: 59 Resp: 1244

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

2000

1500

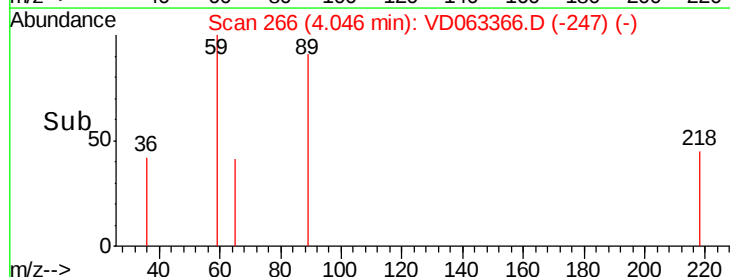
1000

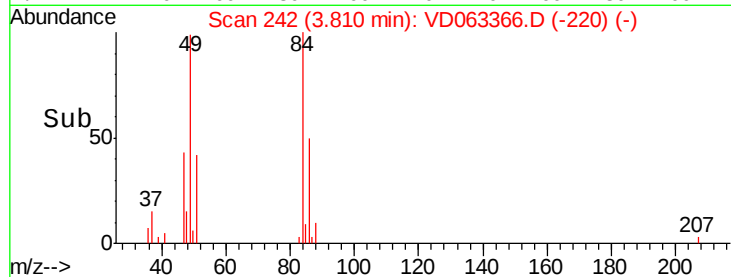
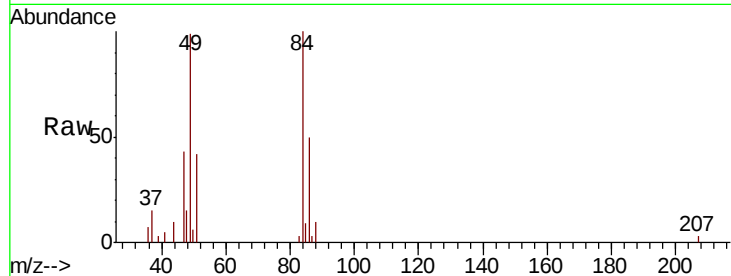
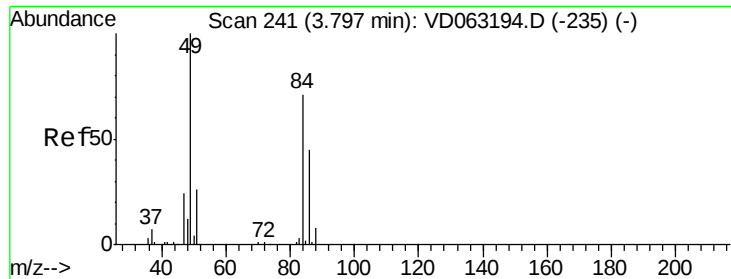
500

0

Time-->

4.02 4.04 4.06 4.08 4.10

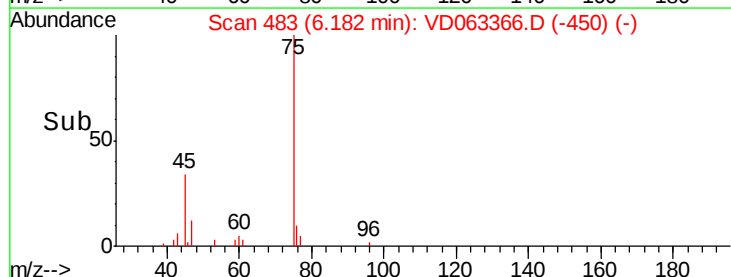
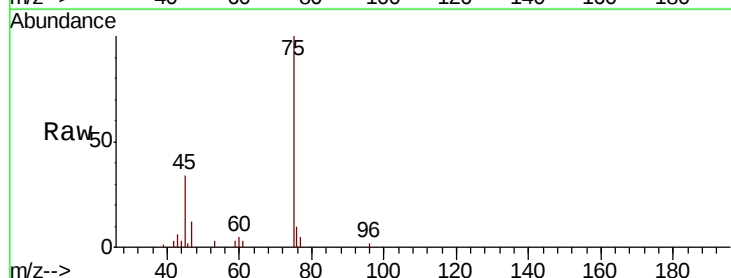
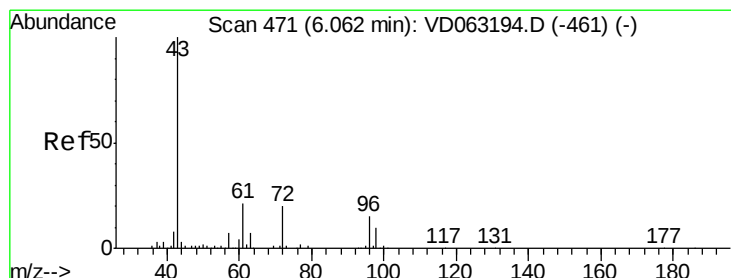
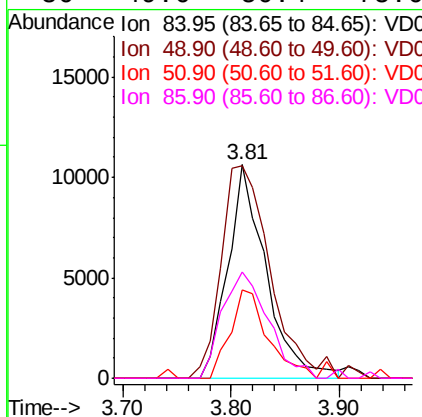




#20
Methylene Chloride
Concen: 3.492 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063366.D
Acq: 3 Aug 2019 17:23

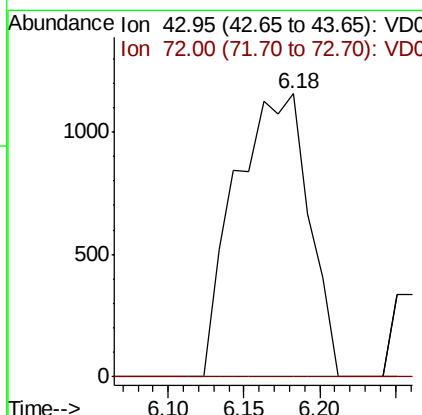
Instrument :
MSVOA_D
ClientSampleId :
1S-A2-(0-1)

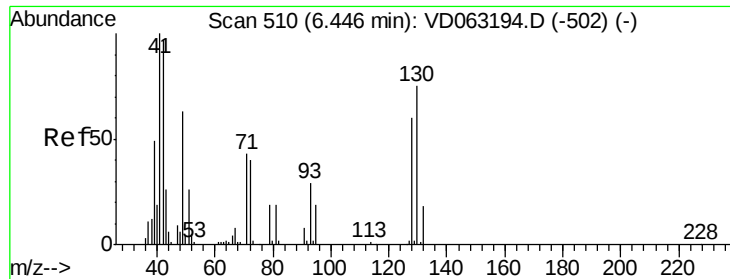
Tgt Ion: 84 Resp: 26144
Ion Ratio Lower Upper
84 100
49 99.4 112.5 168.7#
51 41.6 29.6 44.4
86 49.6 50.4 75.6#



#25
2-Butanone
Concen: 2.105 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.12 min
Lab File: VD063366.D
Acq: 3 Aug 2019 17:23

Tgt Ion: 43 Resp: 3913
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#

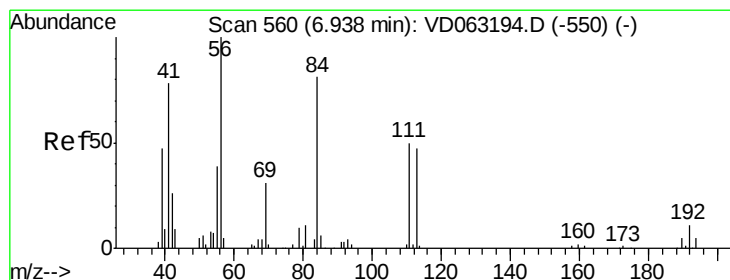
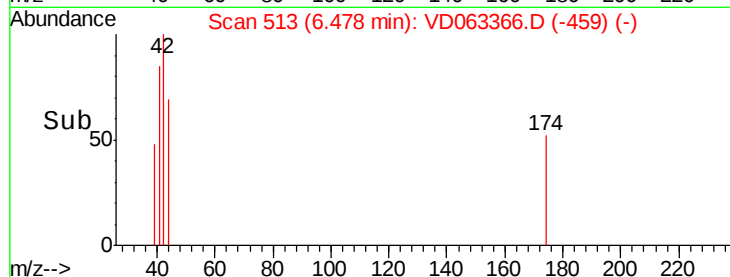
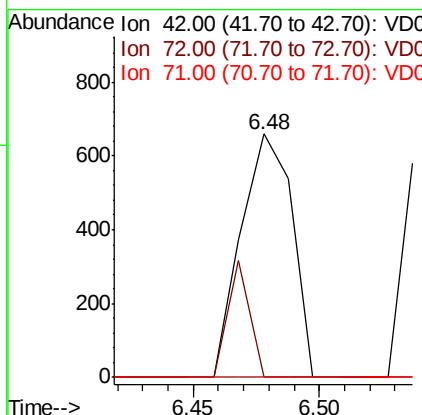
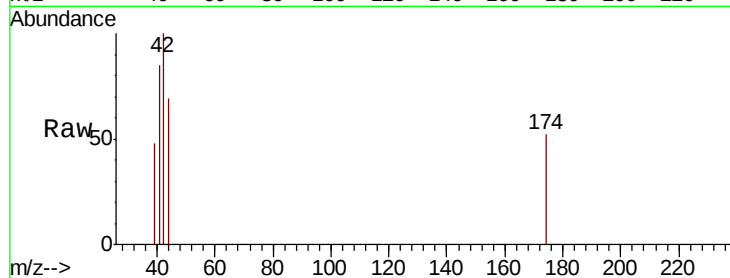




#29
Tetrahydrofuran
Concen: 1.056 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.03 min
Lab File: VD063366.D
Acq: 3 Aug 2019 17:23

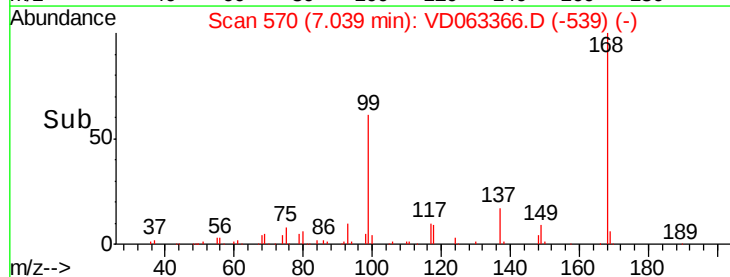
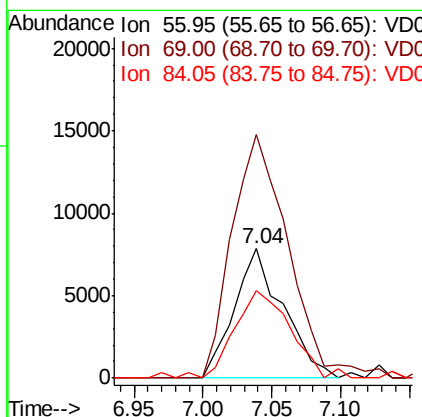
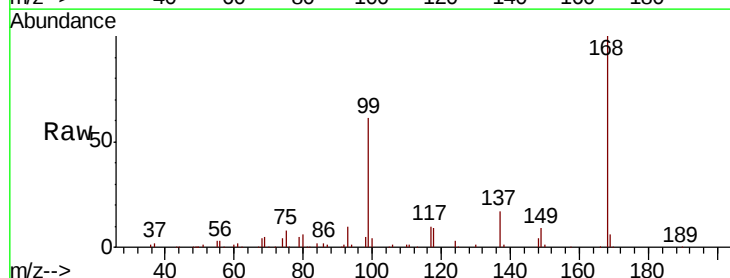
Instrument :
MSVOA_D
ClientSampleId :
1S-A2-(0-1)

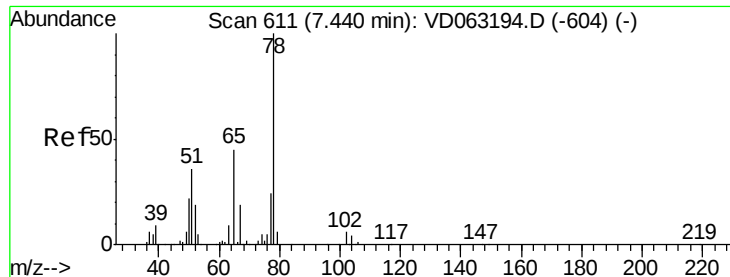
Tgt Ion: 42 Resp: 929
Ion Ratio Lower Upper
42 100
72 20.2 33.4 50.2#
71 0.0 35.7 53.5#



#31
Cyclohexane
Concen: 2.275 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063366.D
Acq: 3 Aug 2019 17:23

Tgt Ion: 56 Resp: 19265
Ion Ratio Lower Upper
56 100
69 188.5 24.5 36.7#
84 67.6 64.9 97.3





#33

1,2-Dichloroethane-d4

Concen: 44.574 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

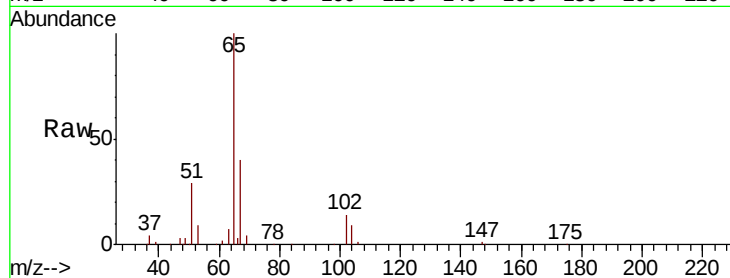
1S-A2-(0-1)

Tgt Ion: 65 Resp: 423710

Ion Ratio Lower Upper

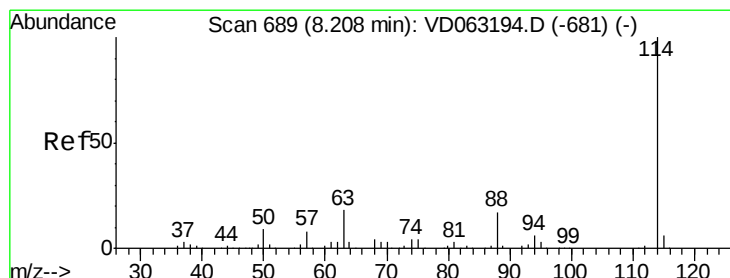
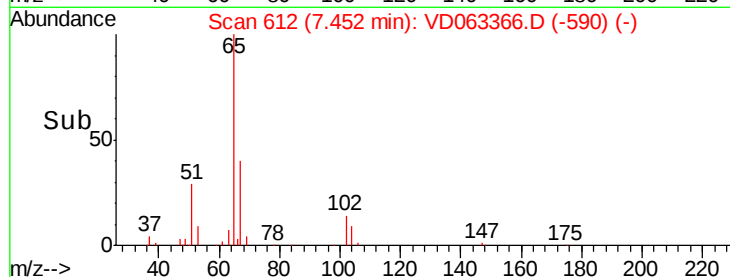
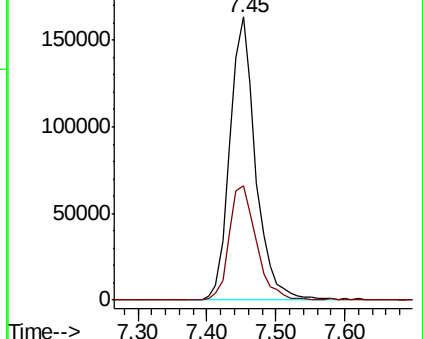
65 100

67 40.2 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: VD063366.D

Acq: 3 Aug 2019 17:23

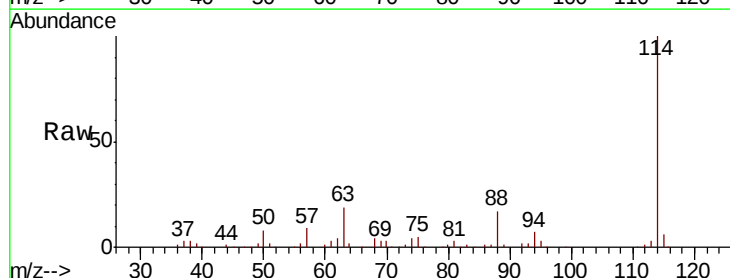
Tgt Ion: 114 Resp: 1146980

Ion Ratio Lower Upper

114 100

63 19.2 0.0 35.2

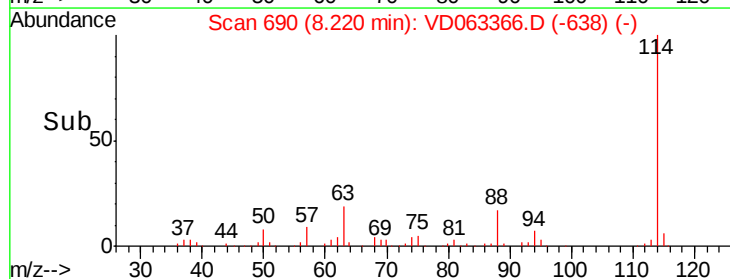
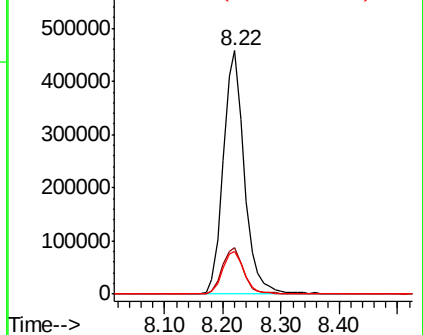
88 17.5 0.0 34.6

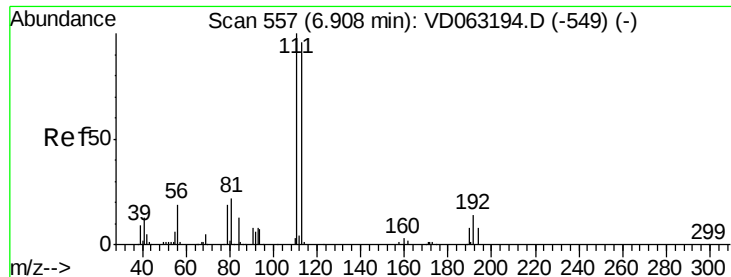


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 46.182 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

1S-A2-(0-1)

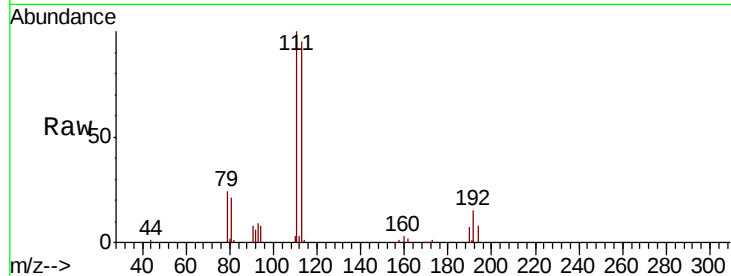
Tgt Ion:113 Resp: 452250

Ion Ratio Lower Upper

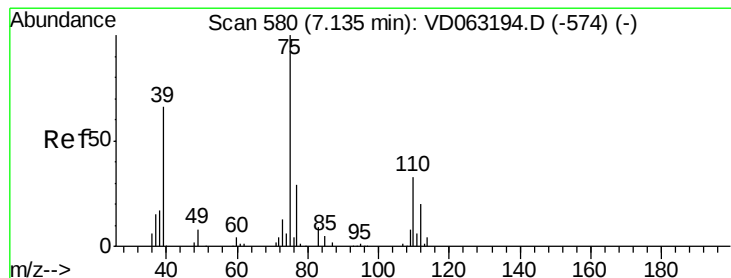
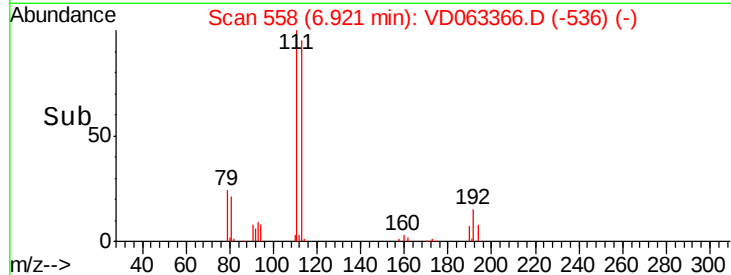
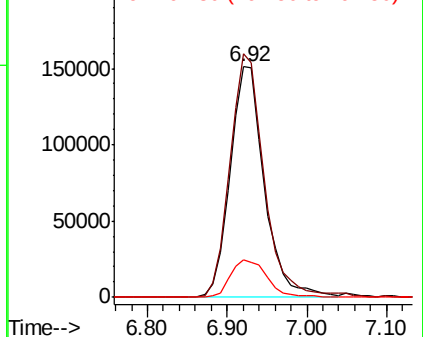
113 100

111 105.6 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



#36

1,1-Dichloropropene

Concen: 6.120 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

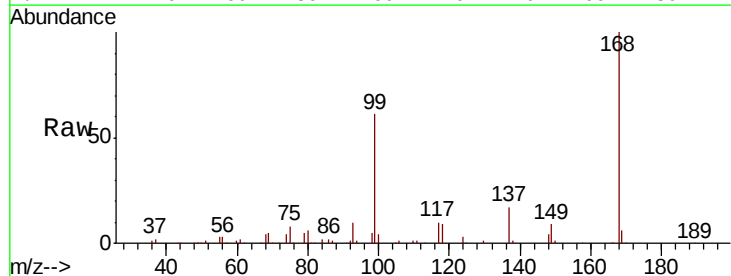
Tgt Ion: 75 Resp: 64062

Ion Ratio Lower Upper

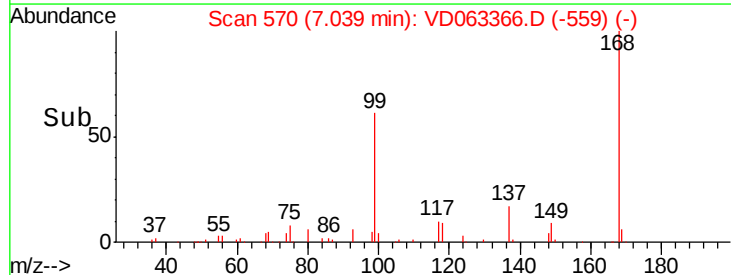
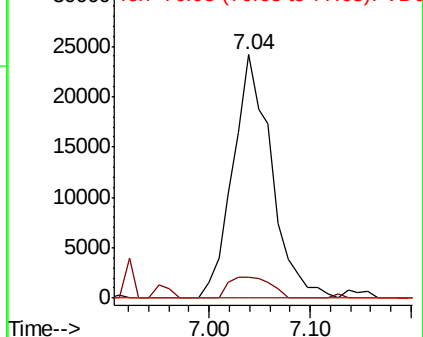
75 100

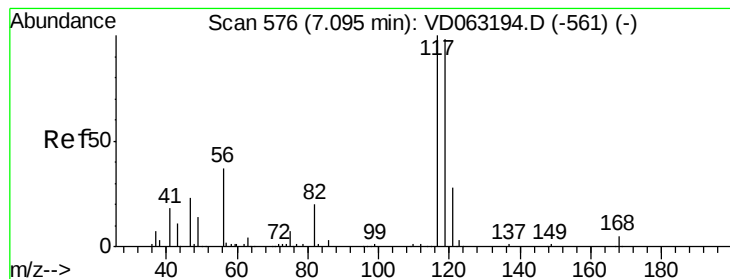
110 8.4 16.1 48.2#

77 0.0 22.7 34.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.413 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

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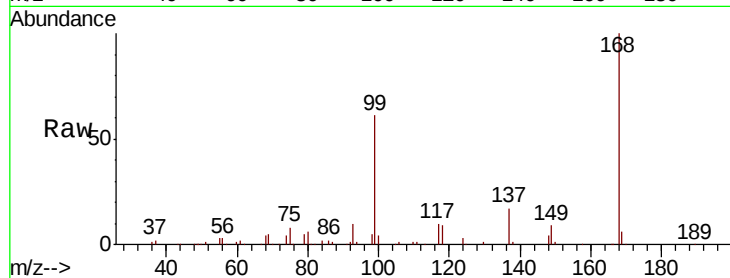
Tgt Ion:117 Resp: 85303

Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

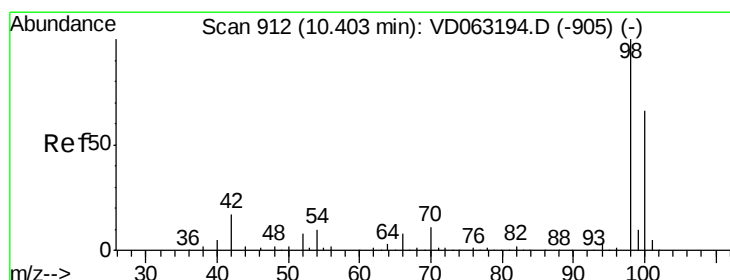
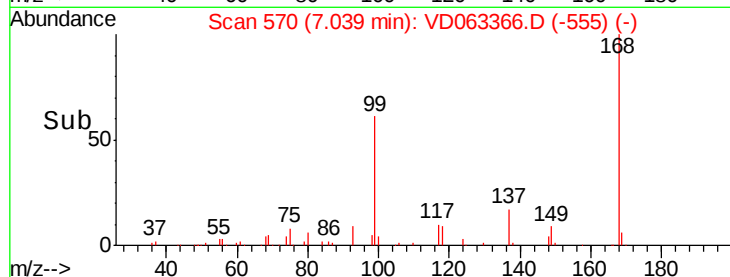
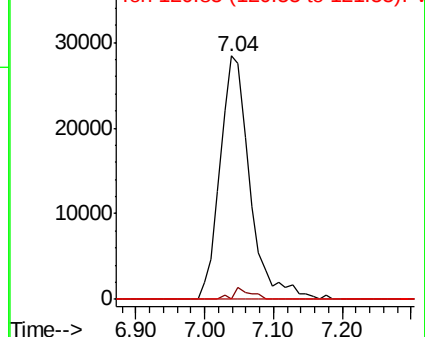
121 0.0 22.1 33.1#



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



#50

Toluene-d8

Concen: 44.882 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063366.D

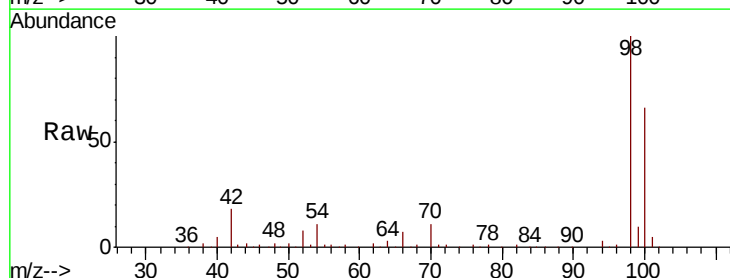
Acq: 3 Aug 2019 17:23

Tgt Ion: 98 Resp: 983639

Ion Ratio Lower Upper

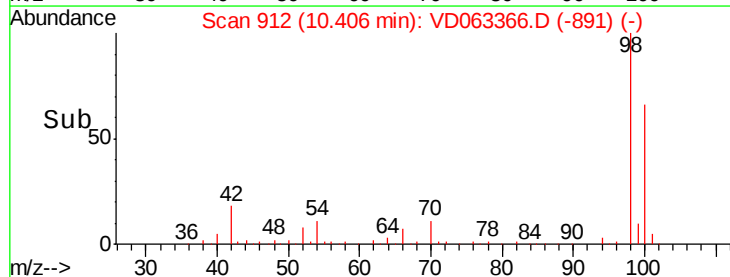
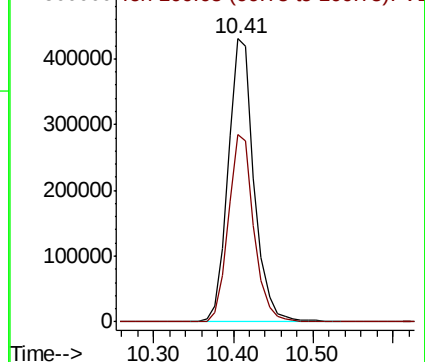
98 100

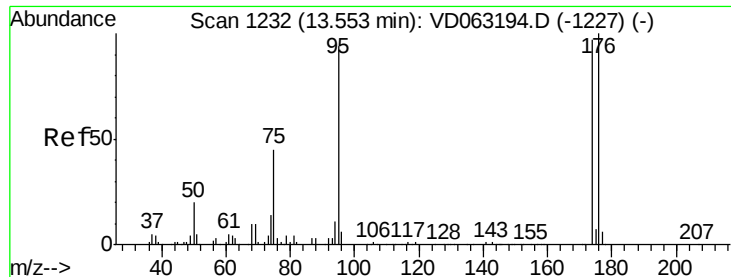
100 66.2 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 36.150 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

1S-A2-(0-1)

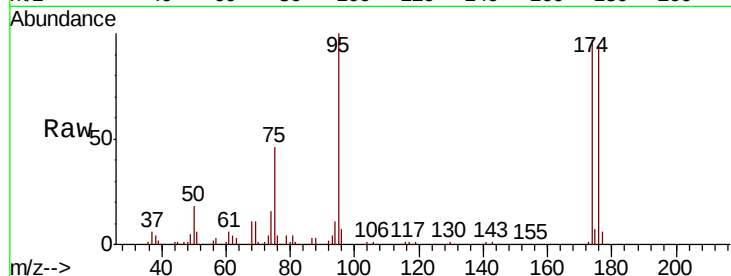
Tgt Ion: 95 Resp: 361034

Ion Ratio Lower Upper

95 100

174 97.4 0.0 205.4

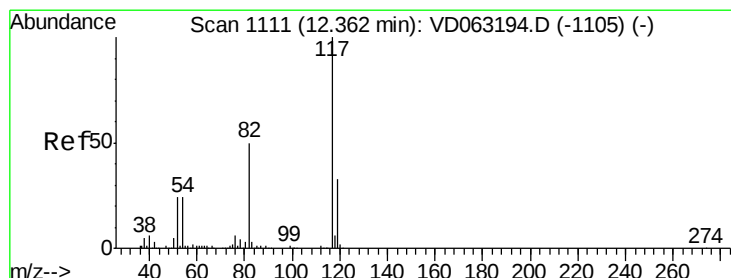
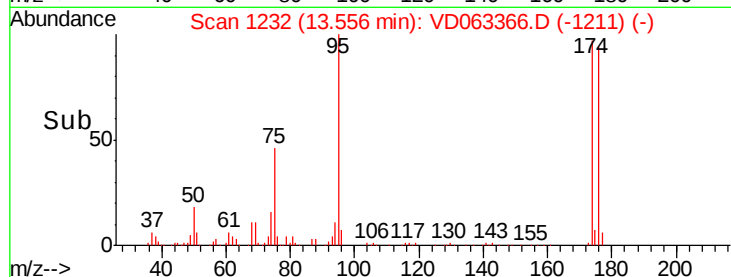
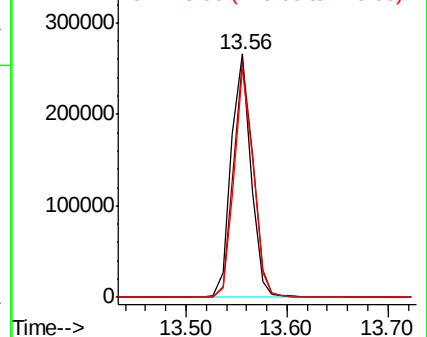
176 93.7 0.0 211.8



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: VD063366.D

Acq: 3 Aug 2019 17:23

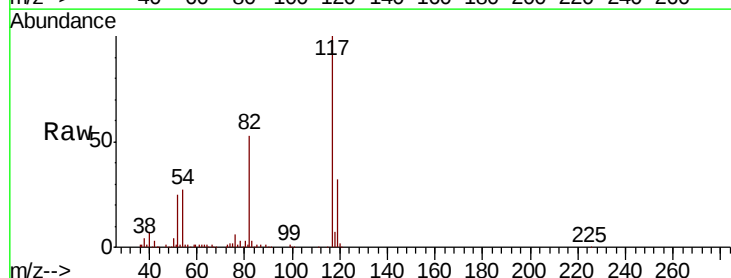
Tgt Ion: 117 Resp: 879555

Ion Ratio Lower Upper

117 100

82 52.9 40.1 60.1

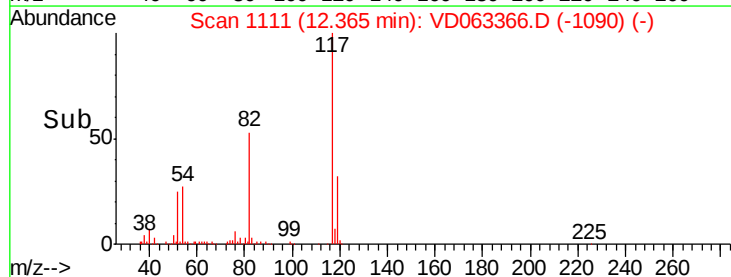
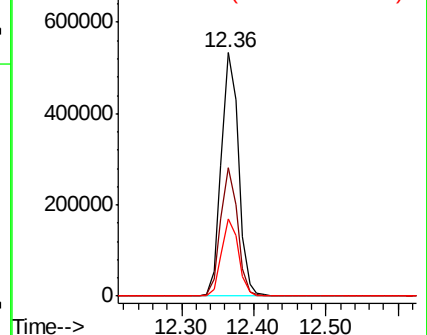
119 31.7 26.5 39.7

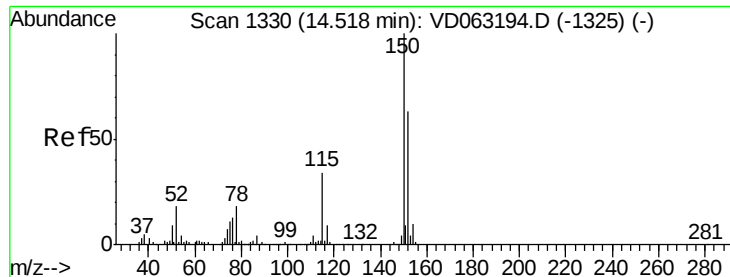


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

1S-A2-(0-1)

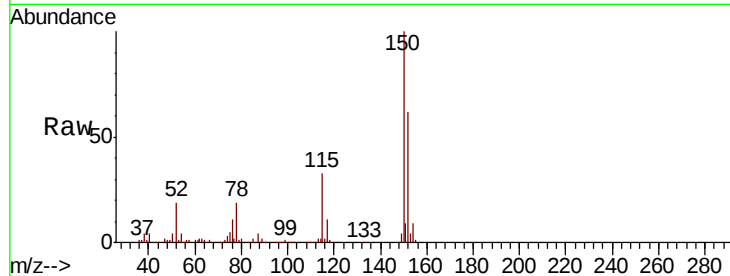
Tgt Ion:152 Resp: 341239

Ion Ratio Lower Upper

152 100

115 54.1 27.5 82.4

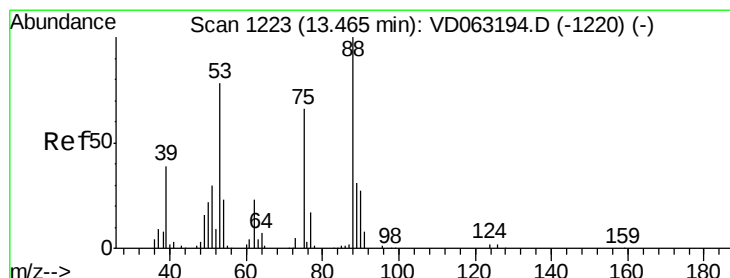
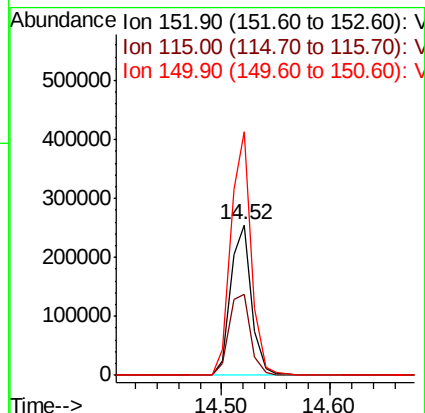
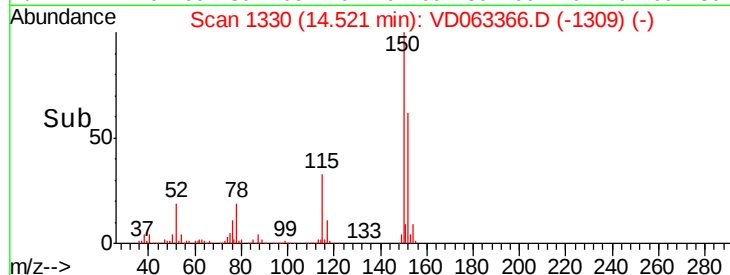
150 161.8 0.0 320.6



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: 152.927 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063366.D

Acq: 3 Aug 2019 17:23

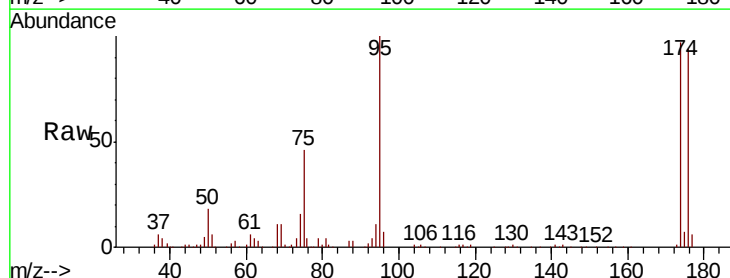
Tgt Ion: 75 Resp: 174051

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

