

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058257.D
 Acq On : 21 Jun 2018 17:28
 Operator : VA/AP
 Sample : J3593-01
 Misc : 7.45g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-9005

Quant Time: Jun 22 06:16:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	612077	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	786439	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	646706	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	348409	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	322675	52.19	ug/l	0.01
Spiked Amount			Recovery	=	104.38%	
35) Dibromofluoromethane	5.56	113	20816	3.25	ug/l	0.01
Spiked Amount			Recovery	=	6.50%	
50) Toluene-d8	8.71	98	767542	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
62) 4-Bromofluorobenzene	11.94	95	315481	49.87	ug/l	0.01
Spiked Amount			Recovery	=	99.74%	

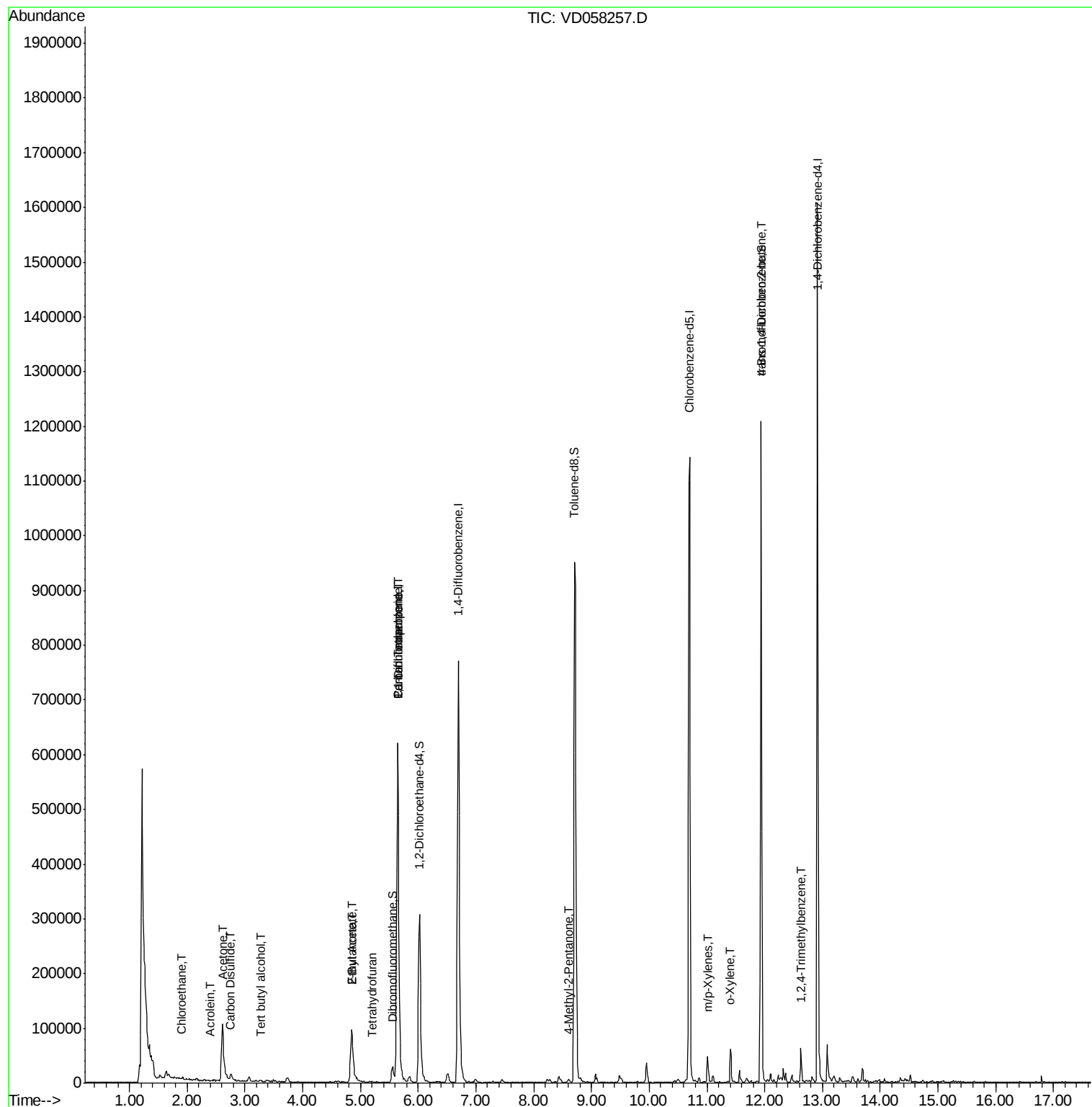
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.47	50	216	Below Cal	#	43
6) Chloroethane	1.91	64	212	1.559	ug/l #	41
11) Tert butyl alcohol	3.28	59	3317	16.267	ug/l #	78
13) Acrolein	2.39	56	194	1.667	ug/l #	11
16) Acetone	2.61	43	224446	265.461	ug/l	93
17) Carbon Disulfide	2.75	76	16529	2.310	ug/l #	93
20) Methylene Chloride	3.08	84	2651	Below Cal	#	72
25) 2-Butanone	4.84	43	36687	19.909	ug/l	98
29) Tetrahydrofuran	5.20	42	1032	1.052	ug/l #	53
31) Cyclohexane	5.65	56	15578	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	51676	6.642	ug/l #	47
37) Ethyl Acetate	4.84	43	36687	8.276	ug/l #	87
38) Carbon Tetrachloride	5.65	117	51038	6.602	ug/l #	14
51) 4-Methyl-2-Pentanone	8.60	43	8030	2.083	ug/l	97
68) m/p-Xylenes	11.00	106	13088	1.838	ug/l	81
69) o-Xylene	11.41	106	13134	1.931	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.94	75	157903	127.274	ug/l #	1
82) 4-Chlorotoluene	12.32	91	1626	Below Cal	#	45
84) 1,2,4-Trimethylbenzene	12.63	105	25238	1.428	ug/l	94

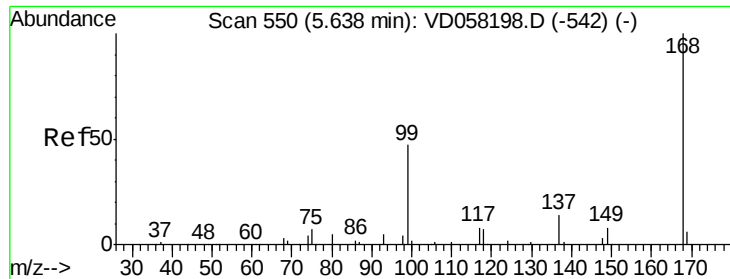
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

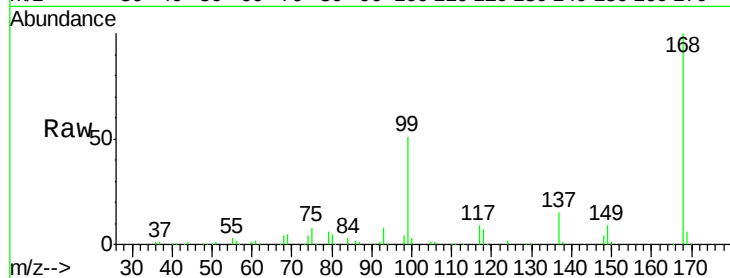
S39-9005

Tot Ion:168 Resp: 612077

Ion Ratio Lower Upper

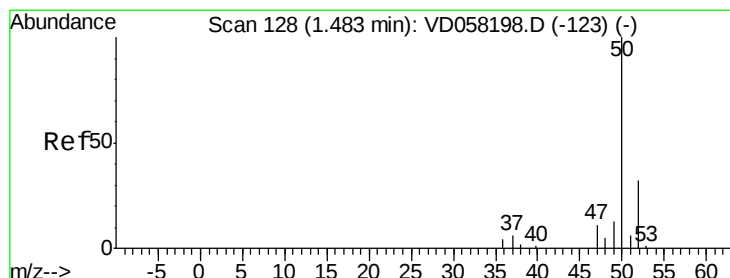
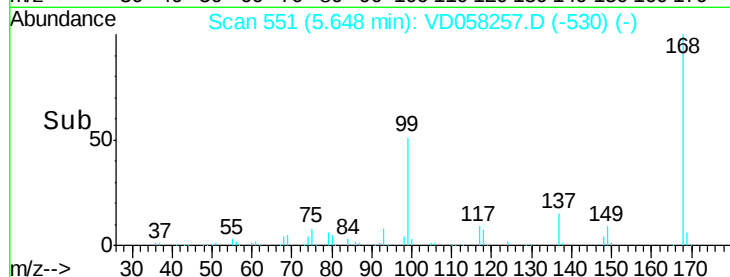
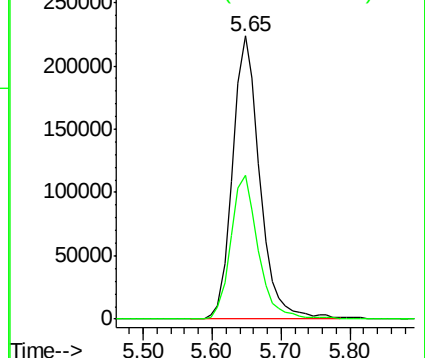
168 100

99 50.9 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.47 min Scan# 127

Delta R.T. -0.01 min

Lab File: VD058257.D

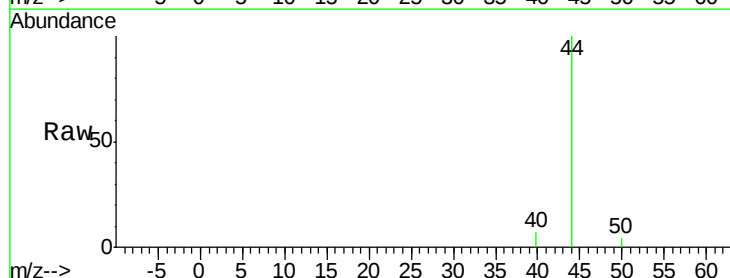
Acq: 21 Jun 2018 17:28

Tgt Ion: 50 Resp: 216

Ion Ratio Lower Upper

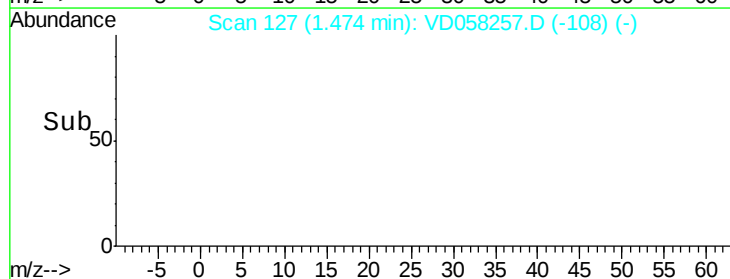
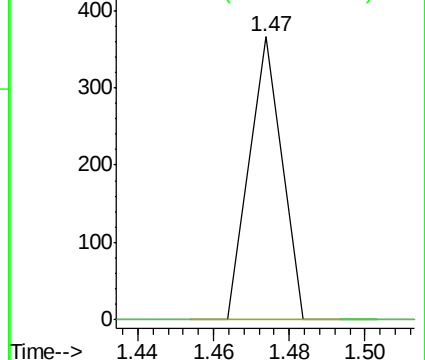
50 100

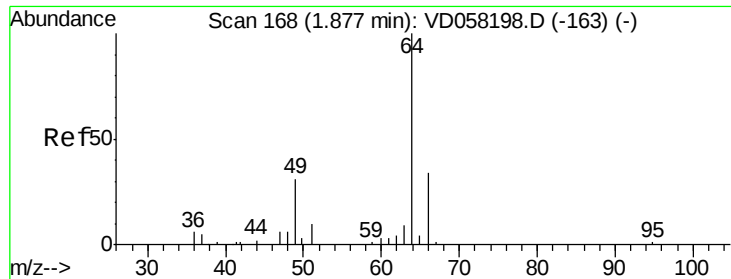
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 1.559 ug/l

RT: 1.91 min Scan# 171

Delta R.T. 0.03 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

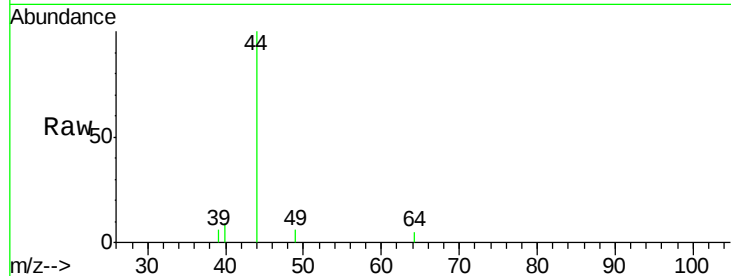
S39-9005

Tot Ion: 64 Resp: 212

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.91

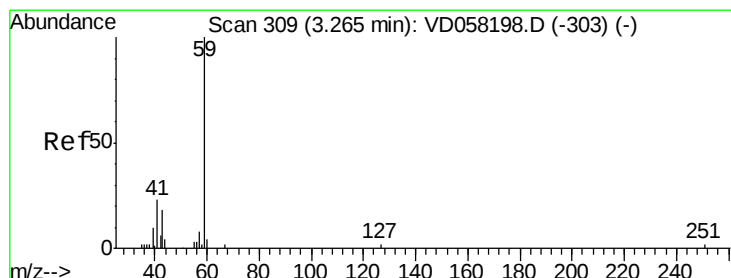
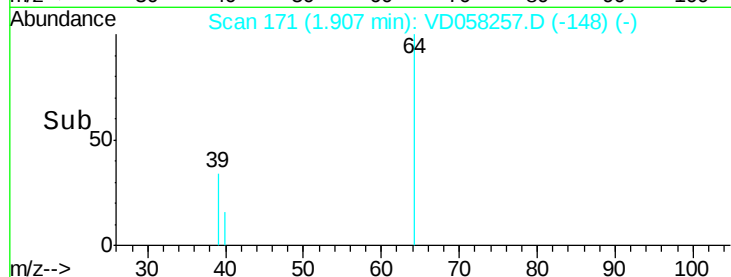
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 16.267 ug/l

RT: 3.28 min Scan# 310

Delta R.T. 0.01 min

Lab File: VD058257.D

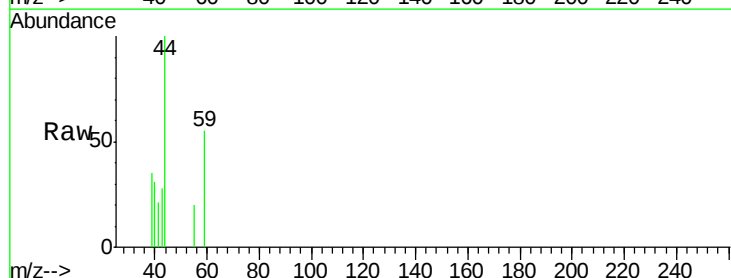
Acq: 21 Jun 2018 17:28

Tgt Ion: 59 Resp: 3317

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.28

1000

800

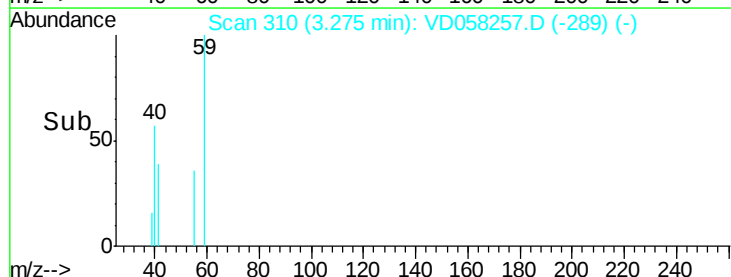
600

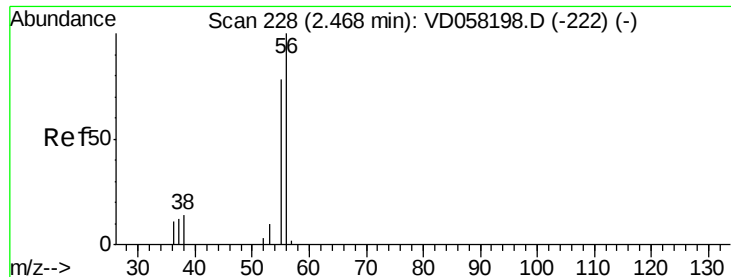
400

200

0

Time-->





#13

Acrolein

Concen: 1.667 ug/l

RT: 2.39 min Scan# 220

Delta R.T. -0.08 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

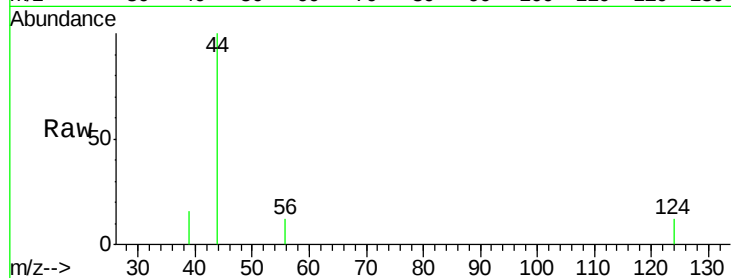
S39-9005

Tot Ion: 56 Resp: 194

Ion Ratio Lower Upper

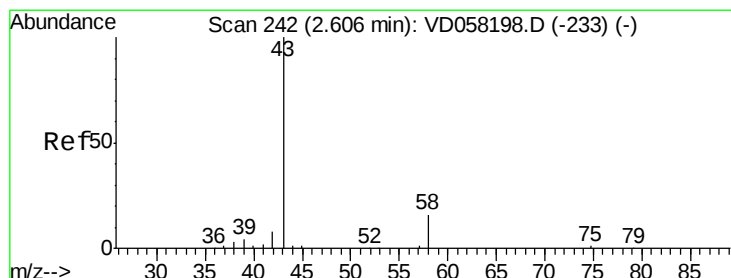
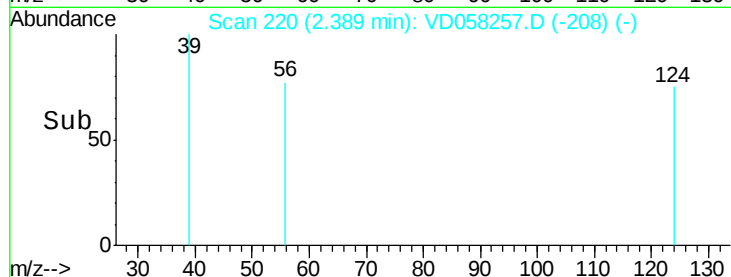
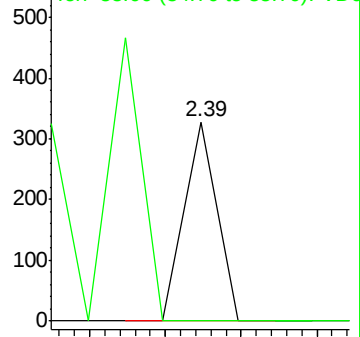
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 265.461 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058257.D

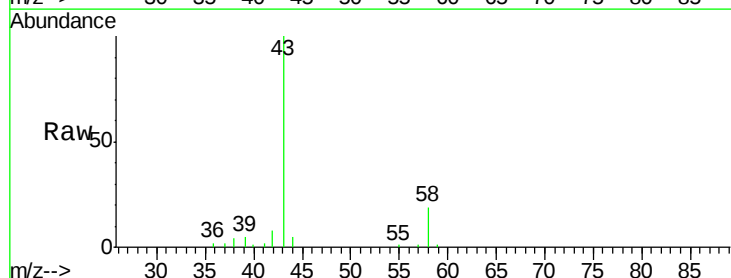
Acq: 21 Jun 2018 17:28

Tgt Ion: 43 Resp: 224446

Ion Ratio Lower Upper

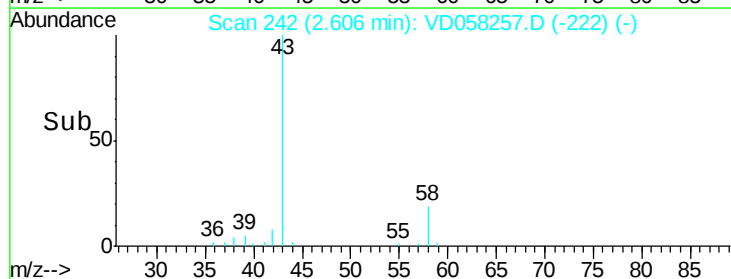
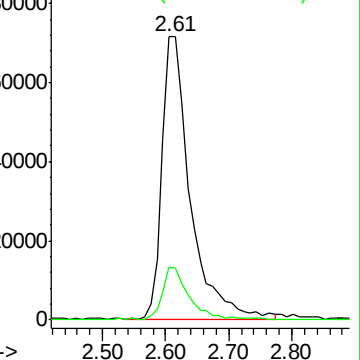
43 100

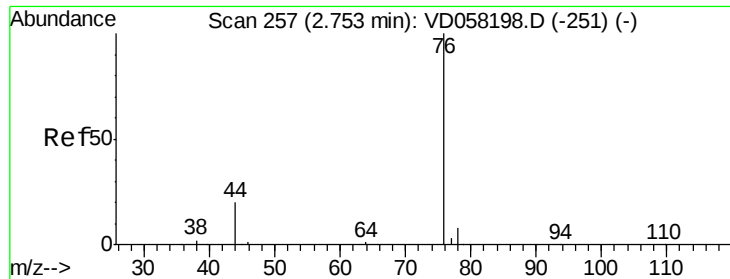
58 18.8 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 2.310 ug/l

RT: 2.75 min Scan# 257

Delta R.T. 0.00 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

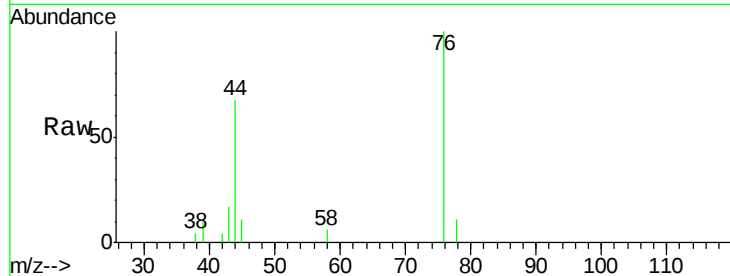
S39-9005

Tot Ion: 76 Resp: 16529

Ion Ratio Lower Upper

76 100

78 11.0 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.75

8000

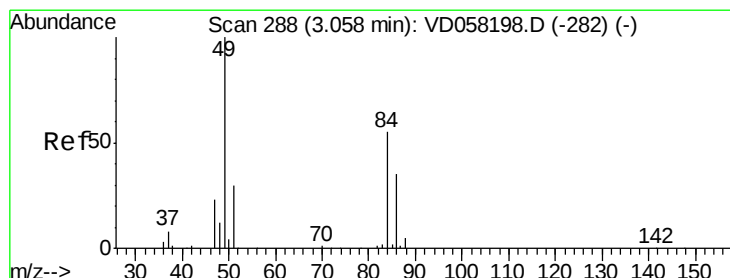
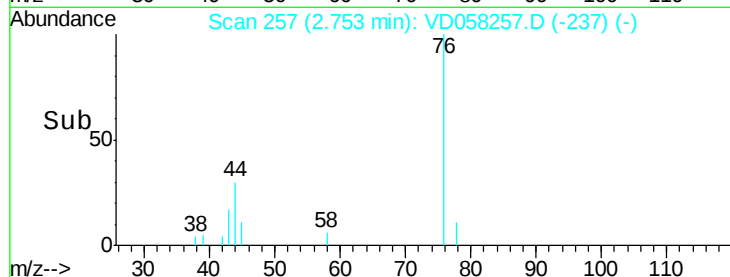
6000

4000

2000

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 3.08 min Scan# 290

Delta R.T. 0.02 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Tgt Ion: 84 Resp: 2651

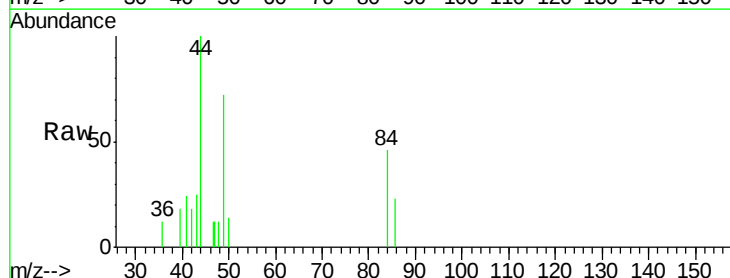
Ion Ratio Lower Upper

84 100

49 156.1 145.0 217.6

51 0.0 42.9 64.3#

86 49.5 50.1 75.1#



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

4000

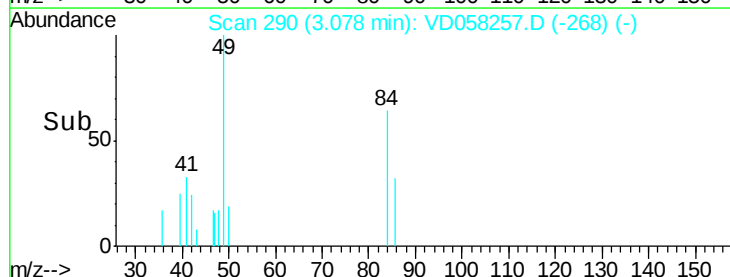
3000

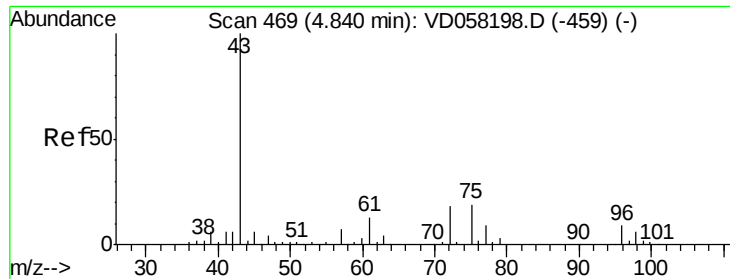
2000

1000

0

Time-->





#25

2-Butanone

Concen: 19.909 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

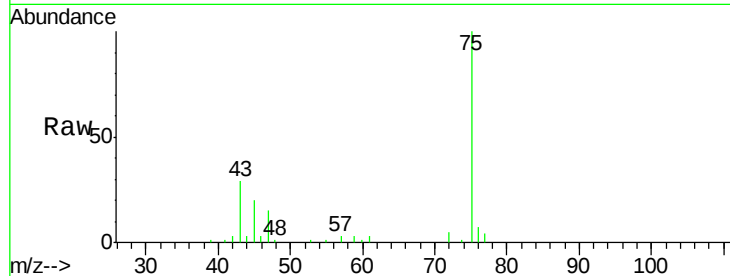
S39-9005

Tot Ion: 43 Resp: 36687

Ion Ratio Lower Upper

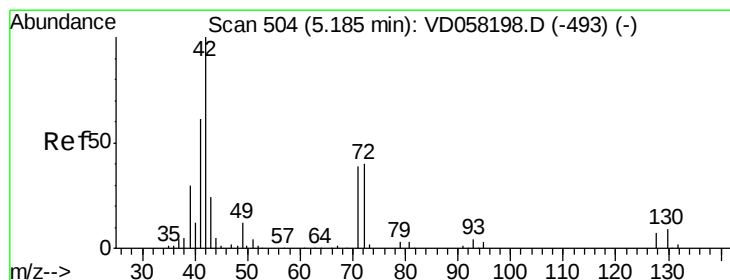
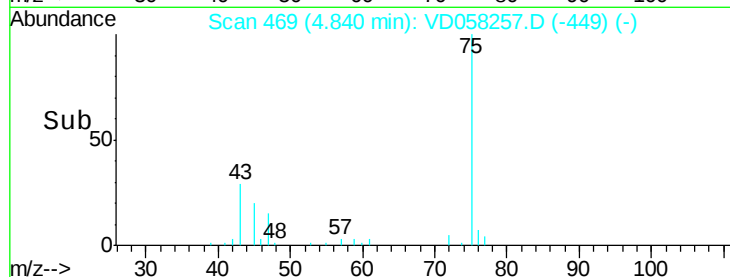
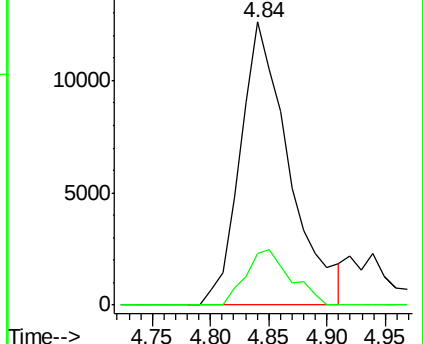
43 100

72 18.5 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.052 ug/l

RT: 5.20 min Scan# 506

Delta R.T. 0.02 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

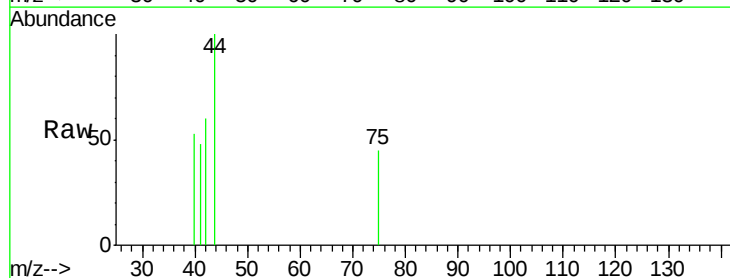
Tgt Ion: 42 Resp: 1032

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

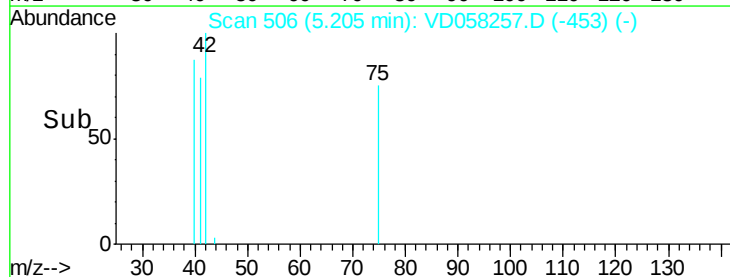
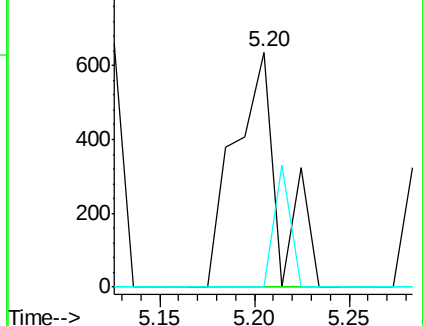
71 18.9 30.1 45.1#

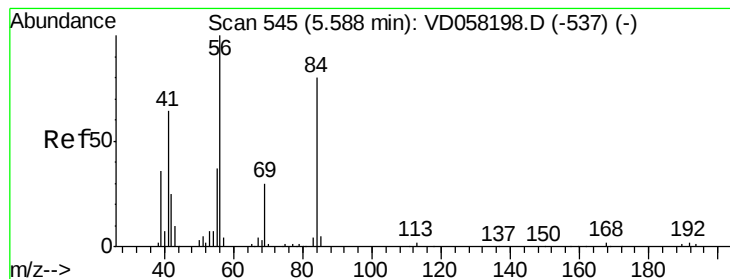


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.06 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

S39-9005

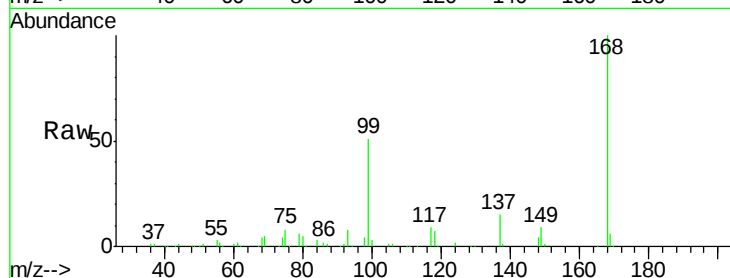
Tot Ion: 56 Resp: 15578

Ion Ratio Lower Upper

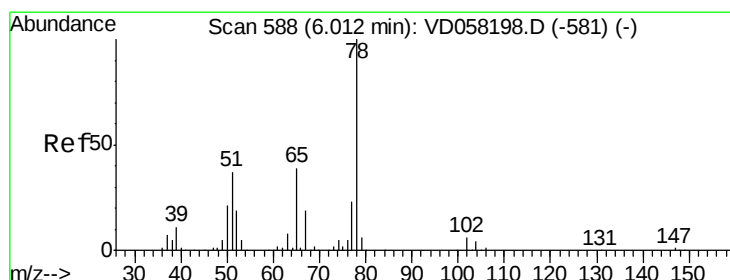
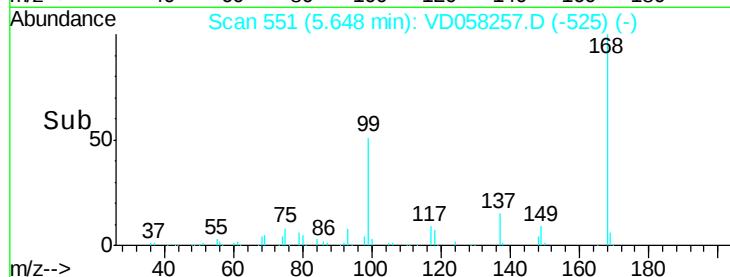
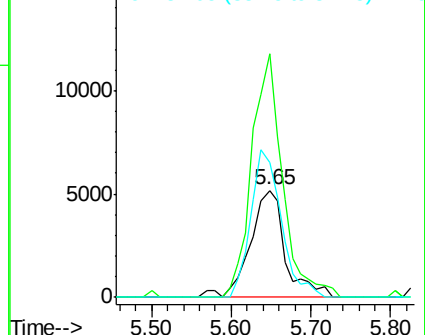
56 100

69 227.2 23.6 35.4#

84 125.9 65.2 97.8#



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: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058257.D

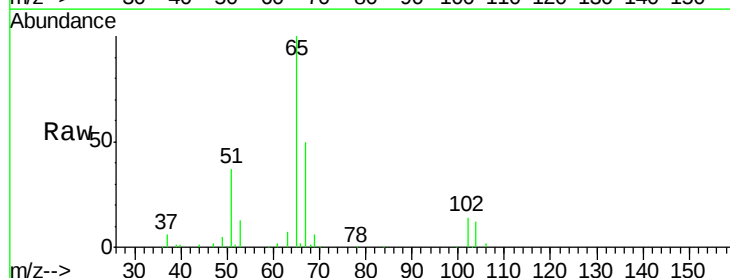
Acq: 21 Jun 2018 17:28

Tgt Ion: 65 Resp: 322675

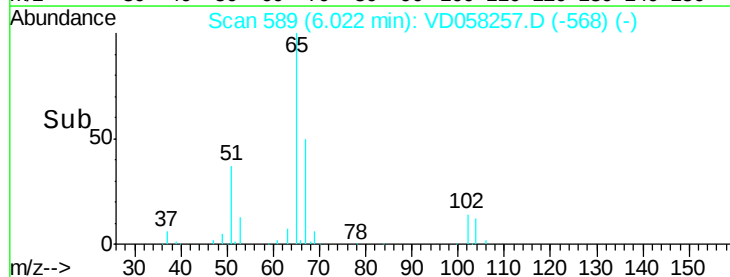
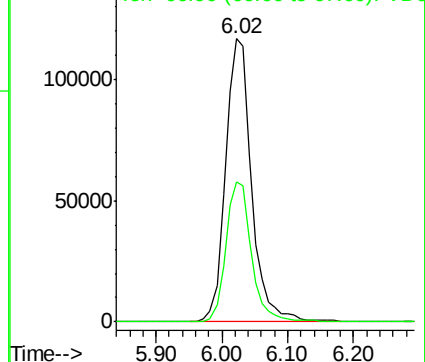
Ion Ratio Lower Upper

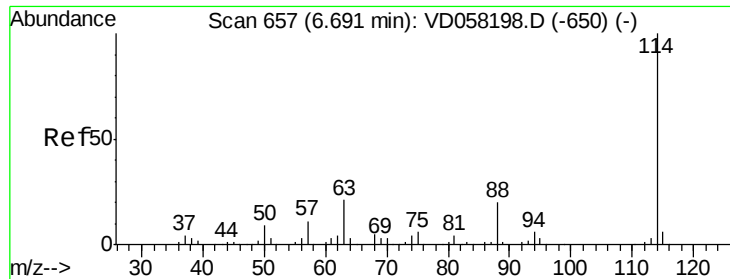
65 100

67 49.6 0.0 97.8



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

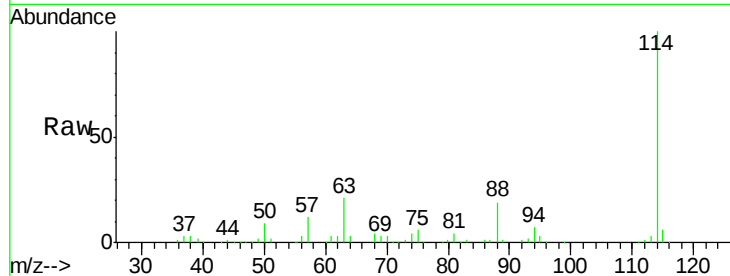




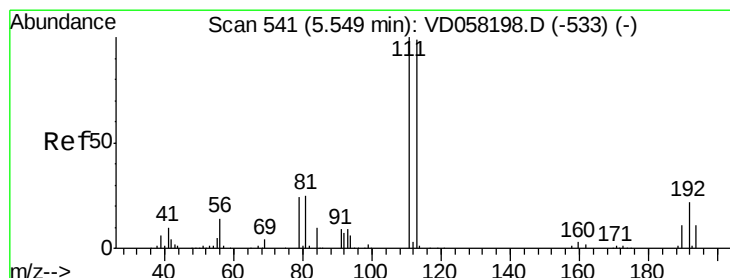
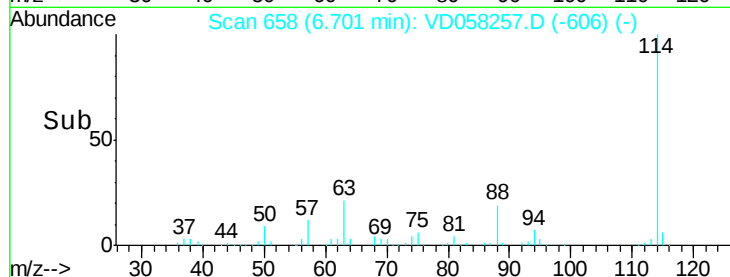
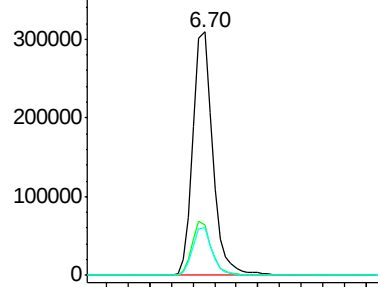
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.70 min Scan# 658
Delta R.T. 0.01 min
Lab File: VD058257.D
Acq: 21 Jun 2018 17:28

Instrument :
MSVOA_D
ClientSampleId :
S39-9005

Tot Ion:114 Resp: 786439
Ion Ratio Lower Upper
114 100
63 20.5 0.0 42.6
88 19.5 0.0 40.6

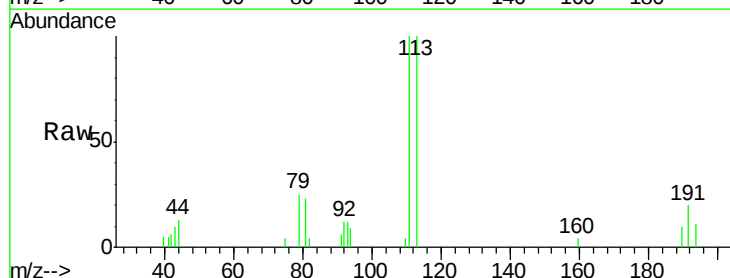


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

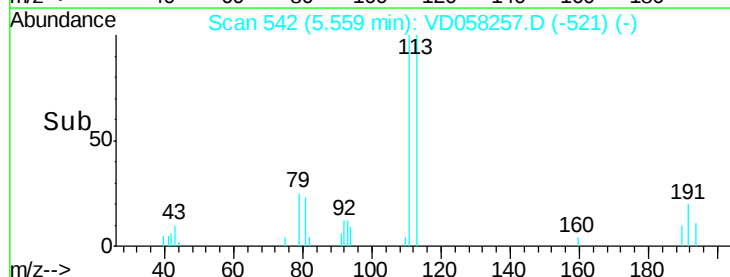
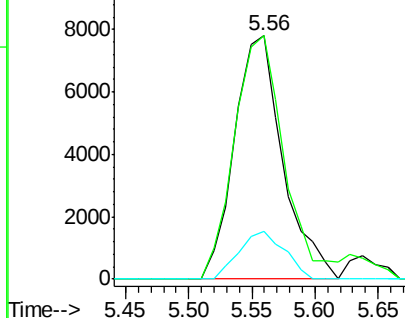


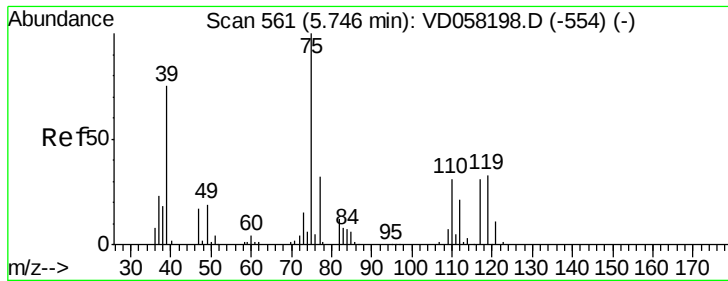
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.01 min
Lab File: VD058257.D
Acq: 21 Jun 2018 17:28

Tgt Ion:113 Resp: 20816
Ion Ratio Lower Upper
113 100
111 99.8 80.6 121.0
192 19.6 17.8 26.6



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: 6.642 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

S39-9005

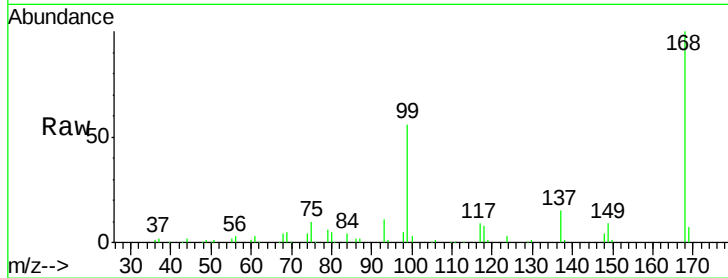
Tot Ion: 75 Resp: 51676

Ion Ratio Lower Upper

75 100

110 3.9 15.4 46.4#

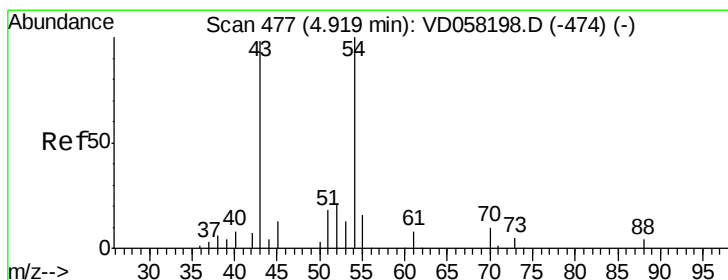
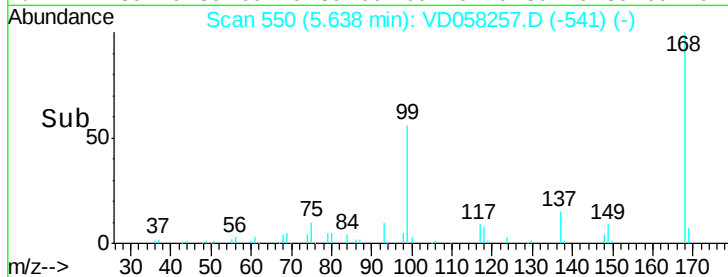
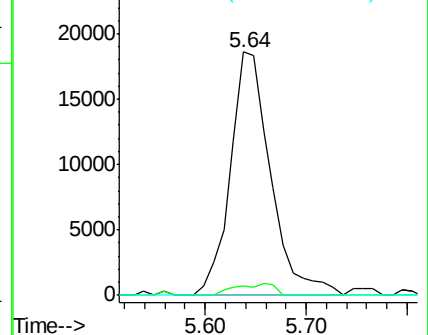
77 0.0 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 8.276 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.08 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

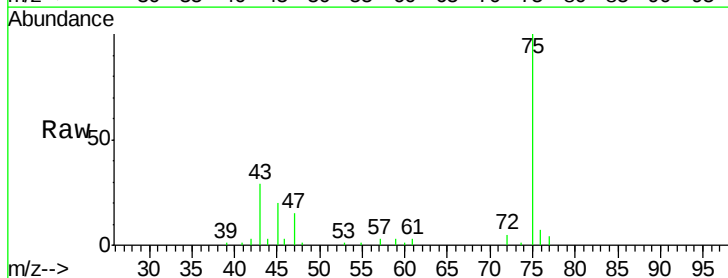
Tgt Ion: 43 Resp: 36687

Ion Ratio Lower Upper

43 100

61 9.5 10.3 15.5#

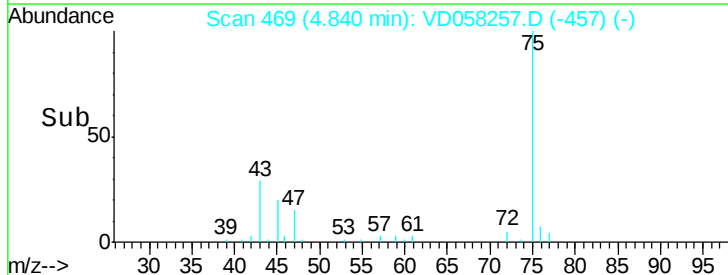
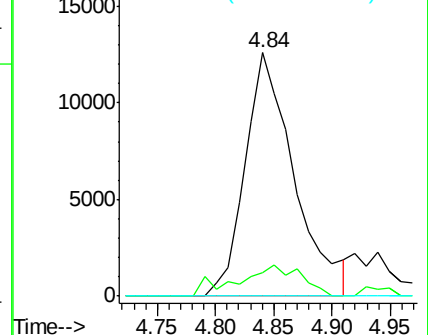
70 0.0 5.7 8.5#

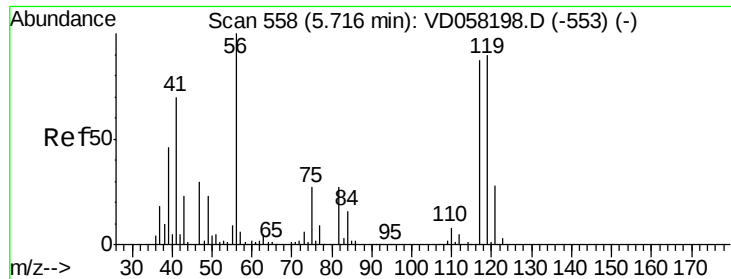


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.602 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

S39-9005

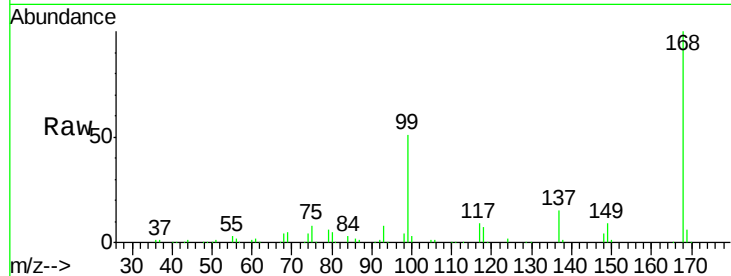
Tot Ion:117 Resp: 51038

Ion Ratio Lower Upper

117 100

119 4.0 78.8 118.2#

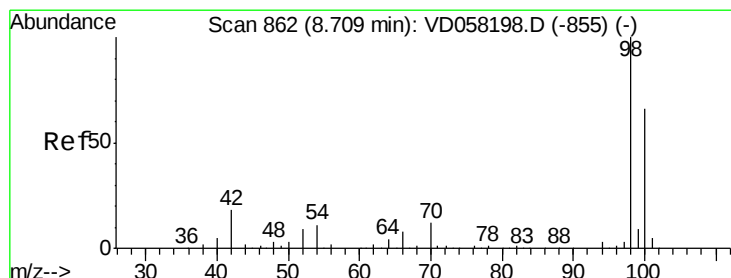
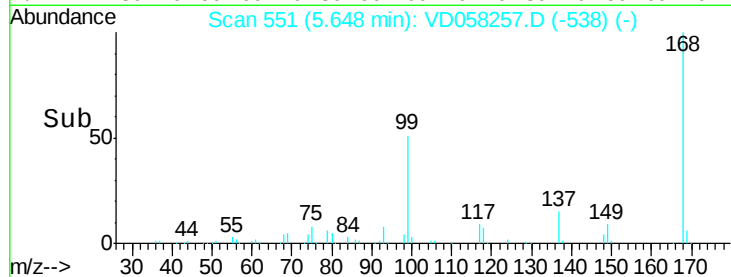
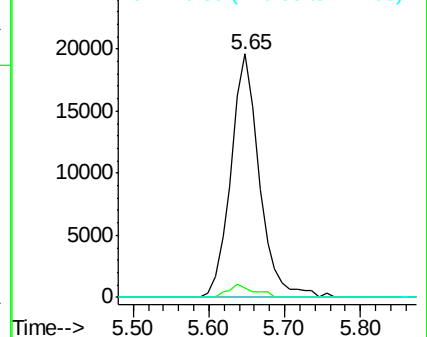
121 0.0 25.0 37.6#



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: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.00 min

Lab File: VD058257.D

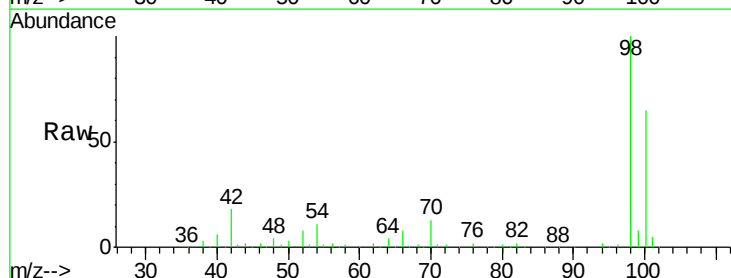
Acq: 21 Jun 2018 17:28

Tgt Ion: 98 Resp: 767542

Ion Ratio Lower Upper

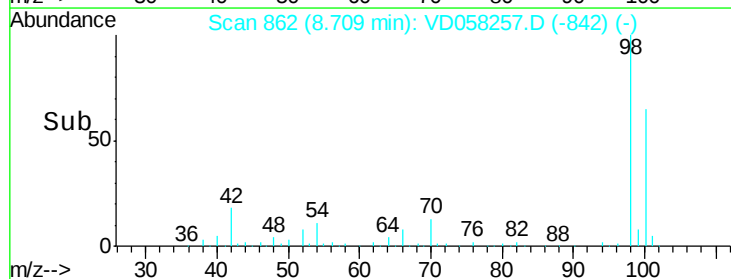
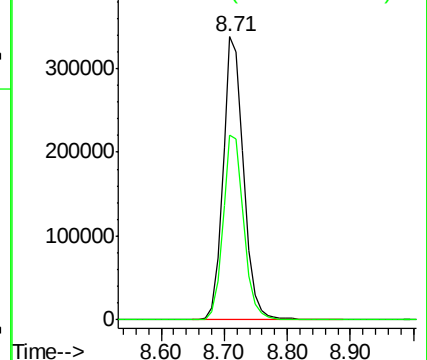
98 100

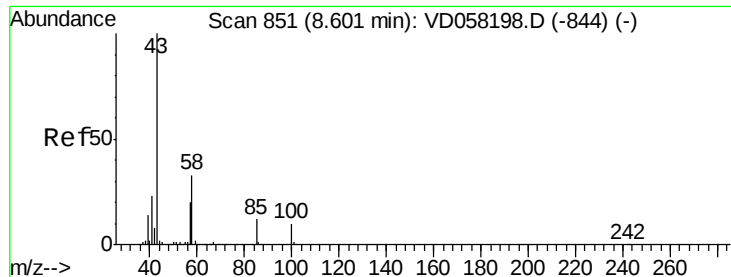
100 65.2 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 2.083 ug/l

RT: 8.60 min Scan# 851

Delta R.T. 0.00 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

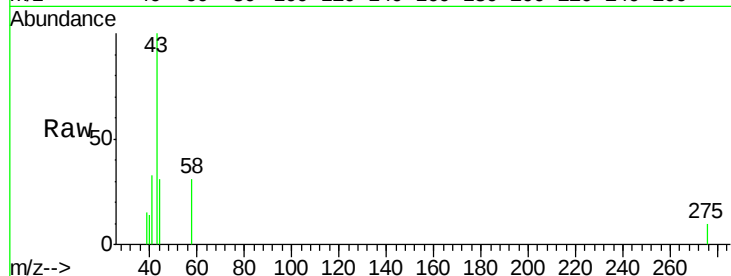
S39-9005

Tot Ion: 43 Resp: 8030

Ion Ratio Lower Upper

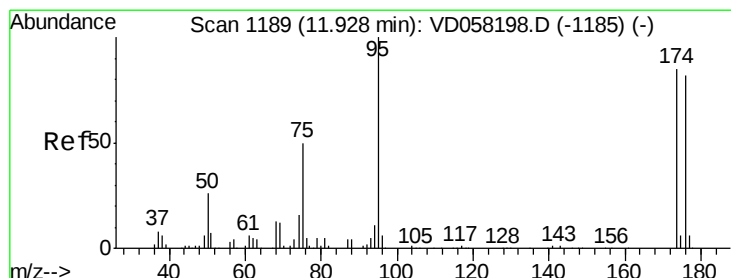
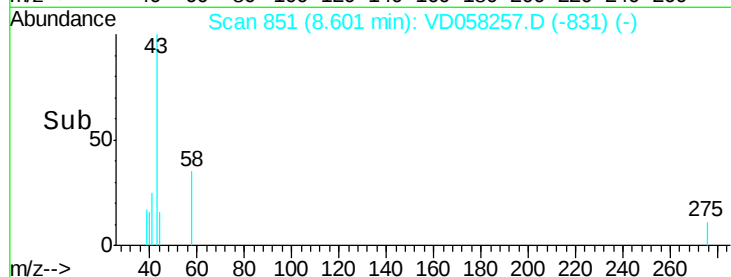
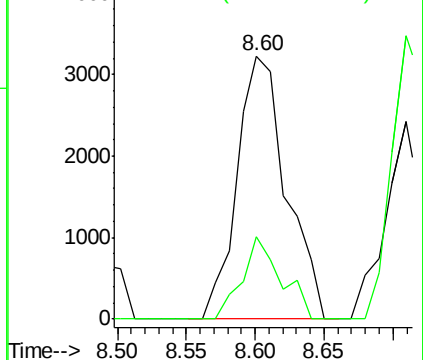
43 100

58 31.4 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

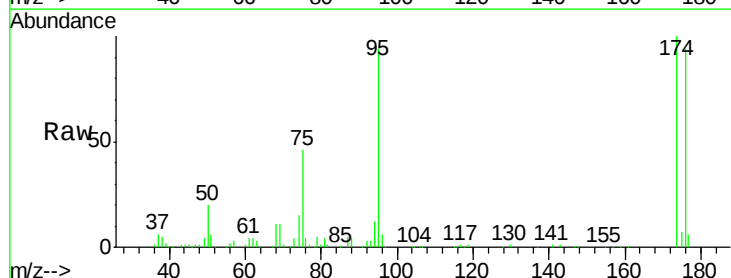
Tgt Ion: 95 Resp: 315481

Ion Ratio Lower Upper

95 100

174 106.2 0.0 170.2

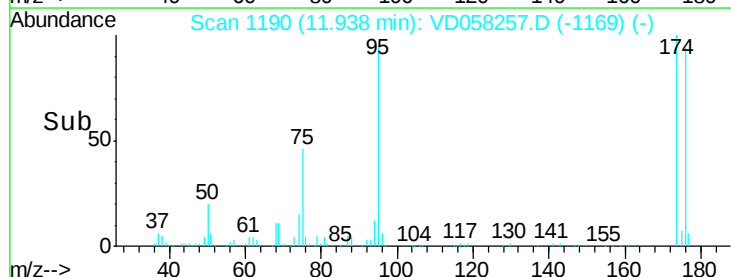
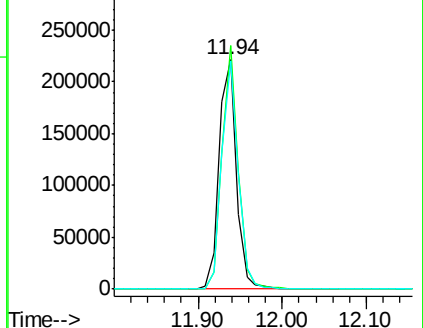
176 99.6 0.0 164.6

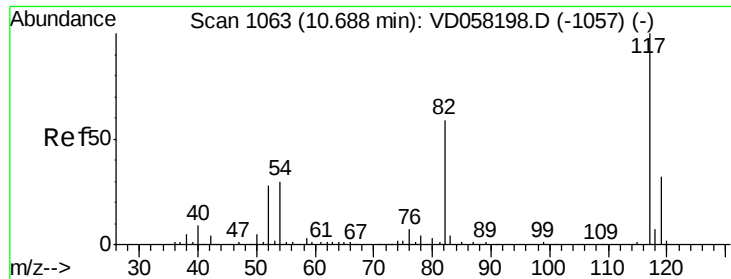


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

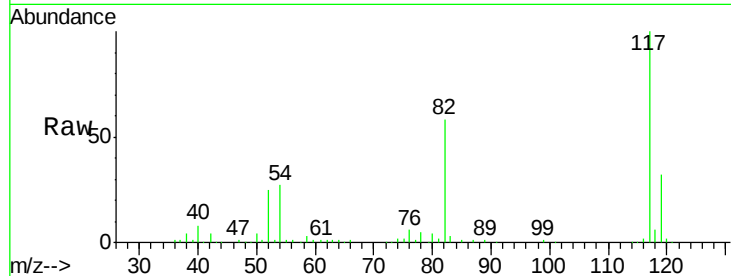




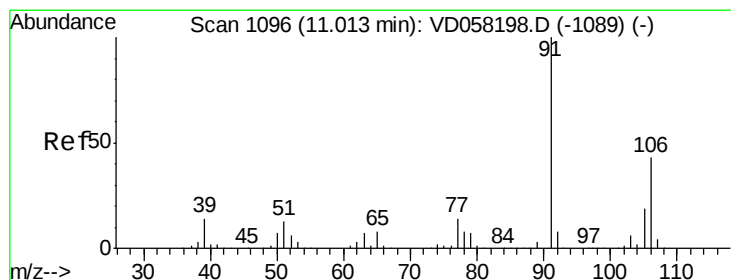
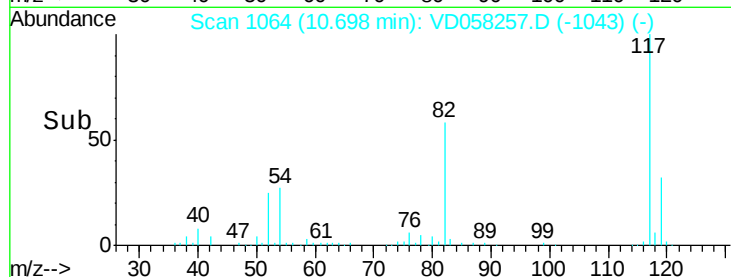
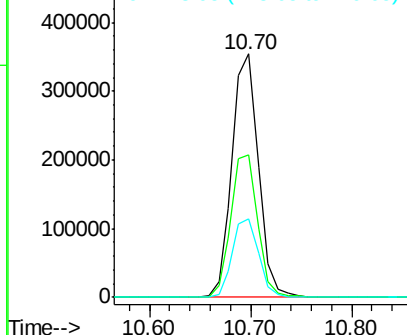
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058257.D
Acq: 21 Jun 2018 17:28

Instrument :
MSVOA_D
ClientSampleId :
S39-9005

Tot Ion:117 Resp: 646706
Ion Ratio Lower Upper
117 100
82 58.5 47.0 70.6
119 32.3 25.3 37.9

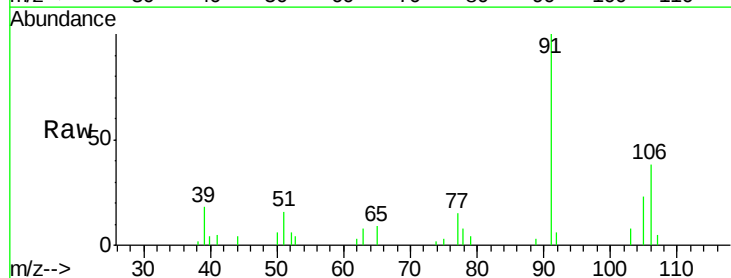


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

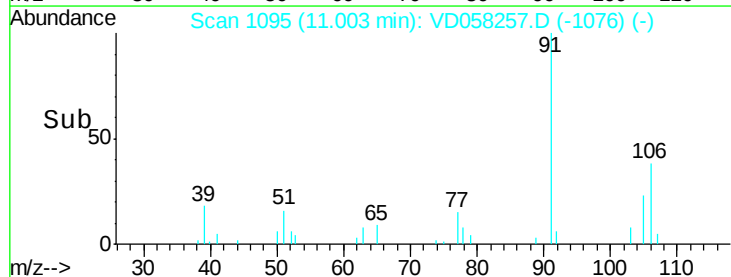
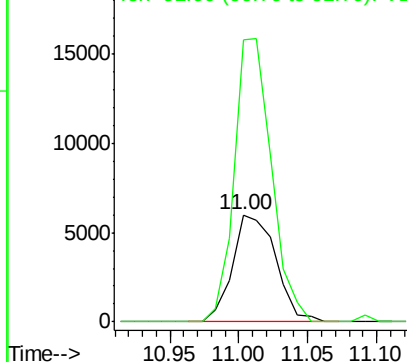


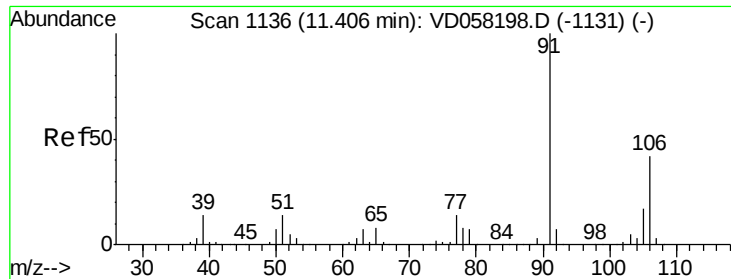
#68
m/p-Xylenes
Concen: 1.838 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058257.D
Acq: 21 Jun 2018 17:28

Tgt Ion:106 Resp: 13088
Ion Ratio Lower Upper
106 100
91 263.1 185.0 277.6



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

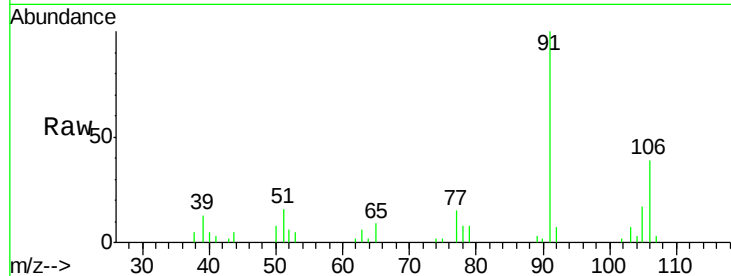




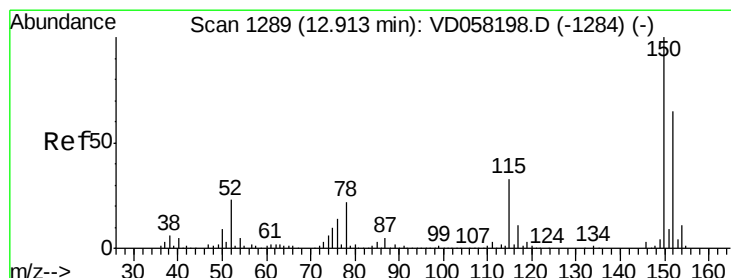
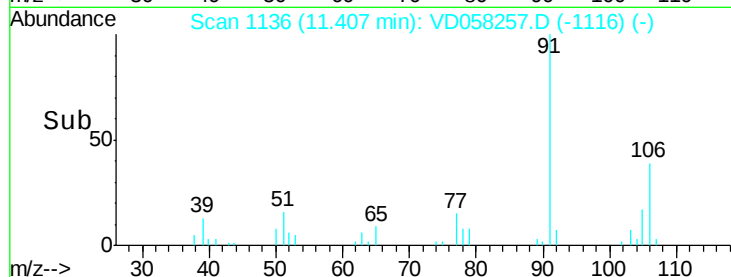
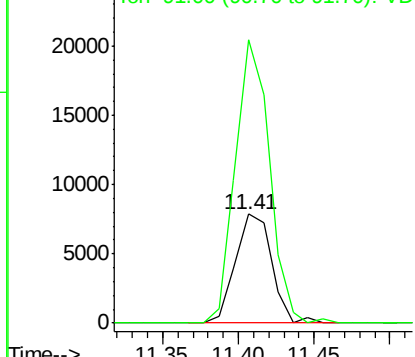
#69
o-Xylene
Concen: 1.931 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058257.D
Acq: 21 Jun 2018 17:28

Instrument :
MSVOA_D
ClientSampled :
S39-9005

Tot Ion:106 Resp: 13134
Ion Ratio Lower Upper
106 100
91 259.7 120.2 360.6

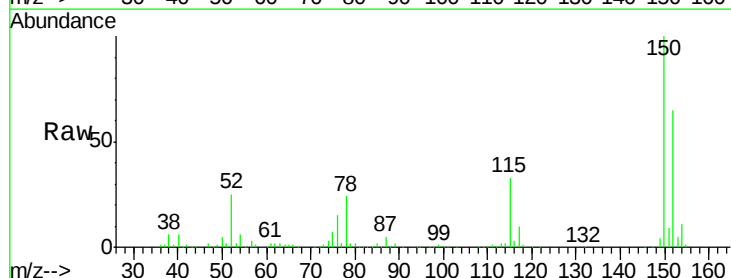


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

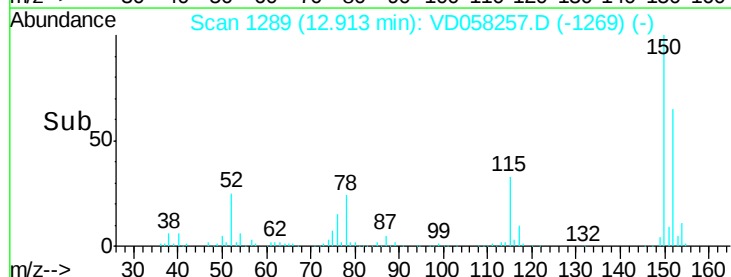
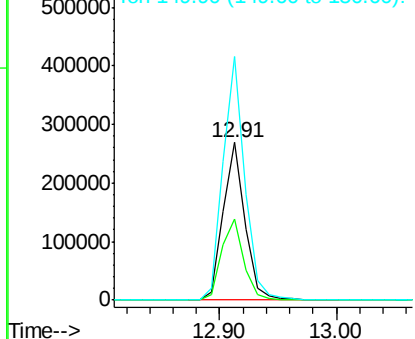


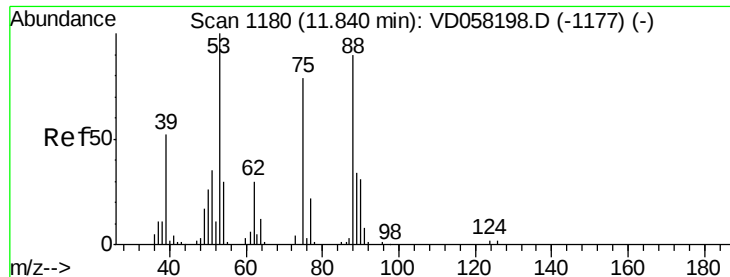
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058257.D
Acq: 21 Jun 2018 17:28

Tgt Ion:152 Resp: 348409
Ion Ratio Lower Upper
152 100
115 51.2 25.1 75.3
150 154.7 0.0 308.8



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: 127.274 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058257.D

Acq: 21 Jun 2018 17:28

Instrument :

MSVOA_D

ClientSampleId :

S39-9005

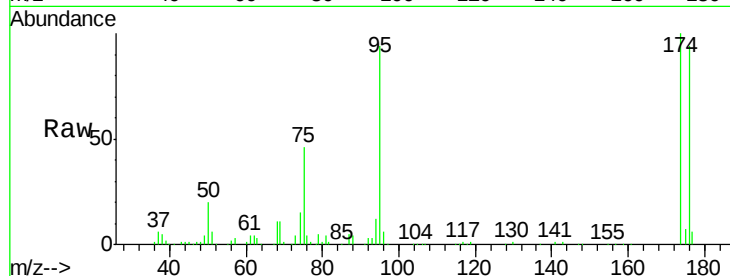
Tot Ion: 75 Resp: 157903

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

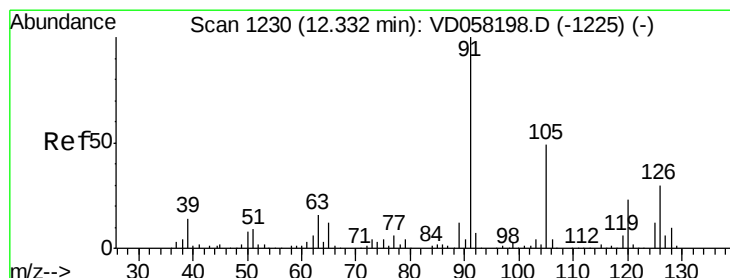
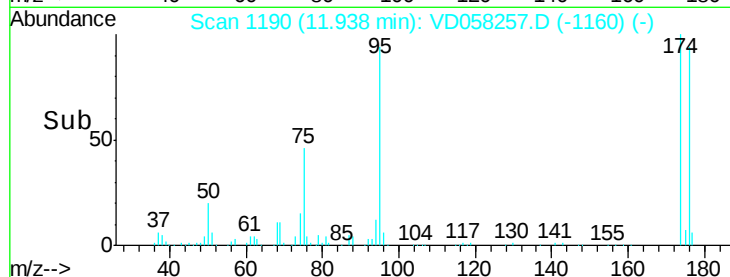
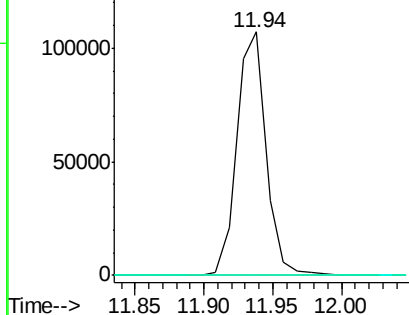
89 0.0 34.6 52.0#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058257.D

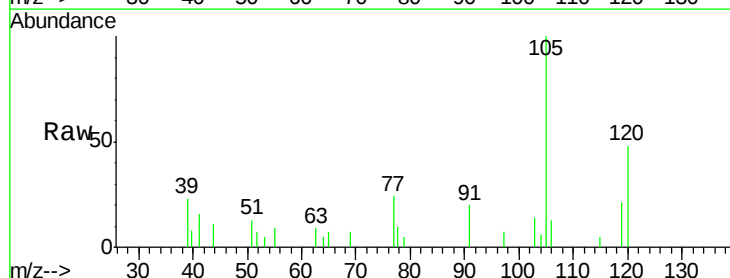
Acq: 21 Jun 2018 17:28

Tgt Ion: 91 Resp: 1626

Ion Ratio Lower Upper

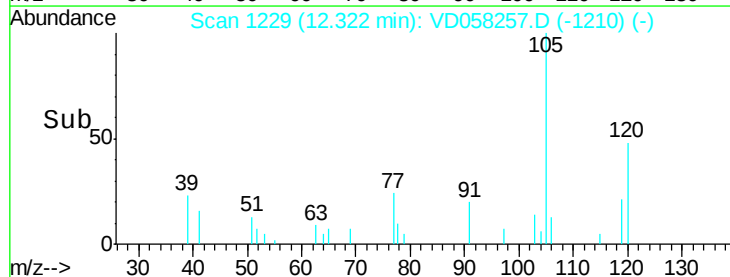
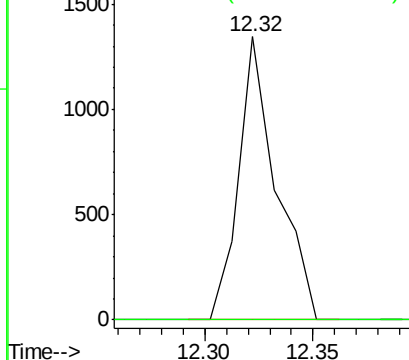
91 100

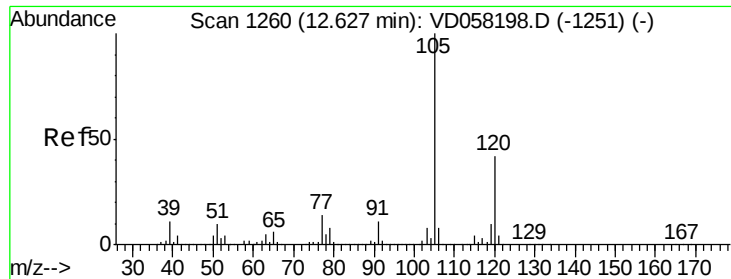
126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#84
 1,2,4-Trimethylbenzene
 Concen: 1.428 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VD058257.D
 Acq: 21 Jun 2018 17:28

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-9005

Tot Ion:105 Resp: 25238
 Ion Ratio Lower Upper
 105 100
 120 38.0 20.8 62.4

