

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058377.D
 Acq On : 24 Jun 2018 17:46
 Operator : VA/AP
 Sample : J3671-19
 Misc : 6.53g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-19-21-180621

Quant Time: Jun 25 05:22:56 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	778118	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	1034187	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	766773	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.92	152	421448	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	379559	48.29	ug/l	0.01
Spiked Amount			Recovery	=	96.58%	
35) Dibromofluoromethane	5.56	113	420517	49.96	ug/l	0.01
Spiked Amount			Recovery	=	99.92%	
50) Toluene-d8	8.72	98	929764	45.66	ug/l	0.01
Spiked Amount			Recovery	=	91.32%	
62) 4-Bromofluorobenzene	11.94	95	394648	47.44	ug/l	0.01
Spiked Amount			Recovery	=	94.88%	

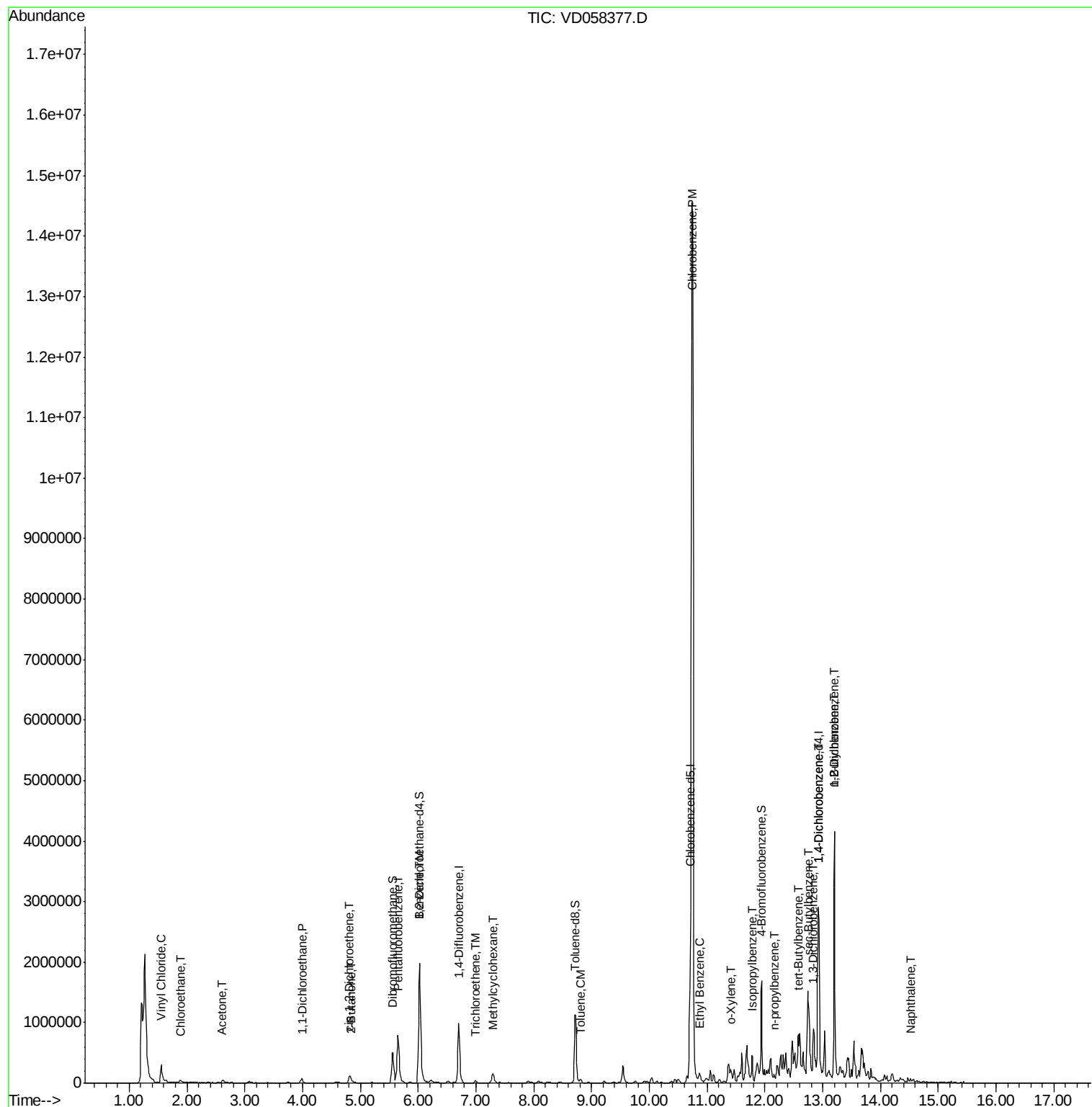
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.56	62	348384	85.47	ug/l	97
6) Chloroethane	1.89	64	32433	20.39	ug/l	89
16) Acetone	2.61	43	95894	89.22	ug/l	96
24) 1,1-Dichloroethane	3.99	63	108425	8.14	ug/l #	95
25) 2-Butanone	4.84	43	19676	8.40	ug/l	100
27) cis-1,2-Dichloroethene	4.81	96	65366	8.95	ug/l	80
39) Methylcyclohexane	7.29	83	83021	8.33	ug/l	94
40) Benzene	6.03	78	1847647	75.81	ug/l	99
44) Trichloroethene	6.99	130	15231	2.08	ug/l	85
52) Toluene	8.81	92	30997	2.23	ug/l	96
65) Chlorobenzene	10.75	112	9742800	679.28	ug/l	97
67) Ethyl Benzene	10.87	91	79340	3.13	ug/l	99
69) o-Xylene	11.41	106	13187	1.64	ug/l	94
73) Isopropylbenzene	11.78	105	228157	9.05	ug/l	100
78) n-propylbenzene	12.16	91	59859	1.84	ug/l	99
83) tert-Butylbenzene	12.58	119	198613	8.79	ug/l	98
85) sec-Butylbenzene	12.76	105	450582	17.01	ug/l	88
87) 1,3-Dichlorobenzene	12.85	146	121262	9.24	ug/l	91
88) 1,4-Dichlorobenzene	12.94	146	826517	64.51	ug/l	96
89) n-Butylbenzene	13.20	91	51874	2.30	ug/l	95
91) 1,2-Dichlorobenzene	13.20	146	1223187	109.55	ug/l	99
95) Naphthalene	14.52	128	30337	2.16	ug/l	96

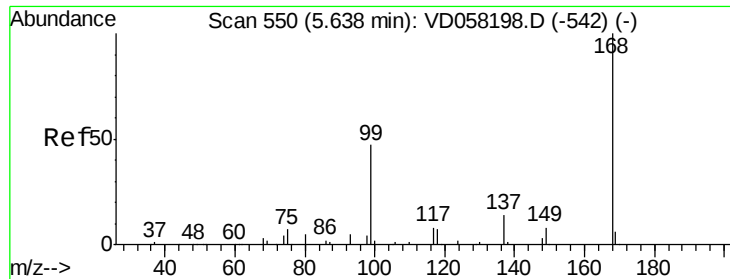
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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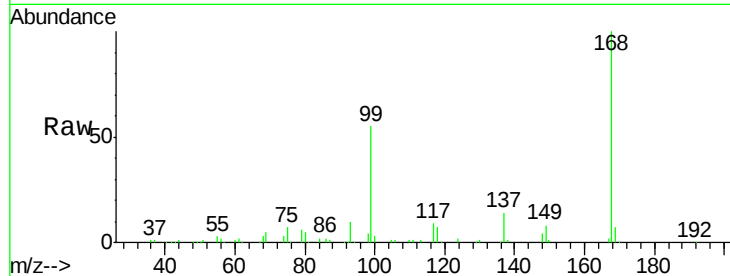


#1

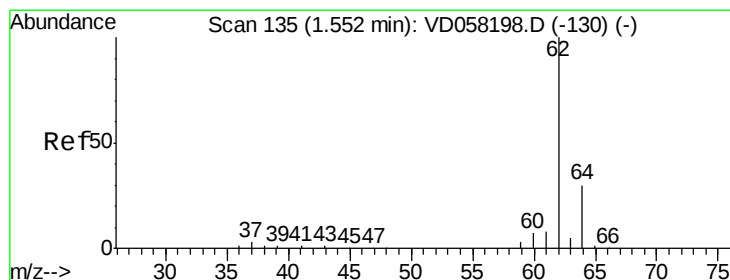
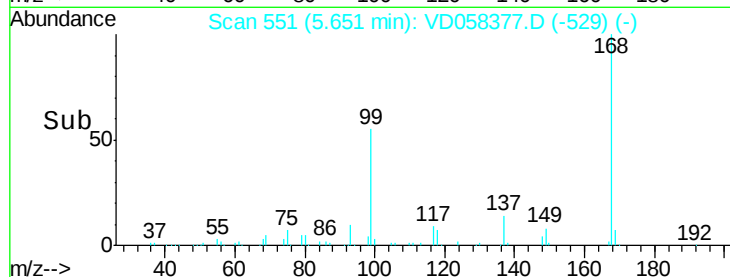
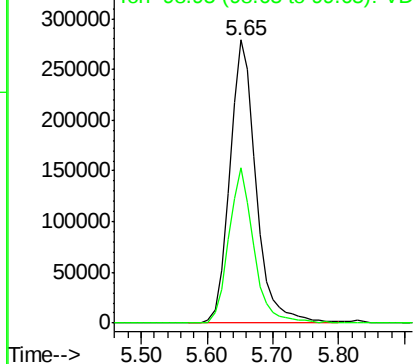
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 5.65 min Scan# 551
 Delta R.T. 0.01 min
 Lab File: VD058377.D
 Acq: 24 Jun 2018 17:46

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-19-21-180621

Tot Ion:168 Resp: 778118
 Ion Ratio Lower Upper
 168 100
 99 54.9 41.1 61.7



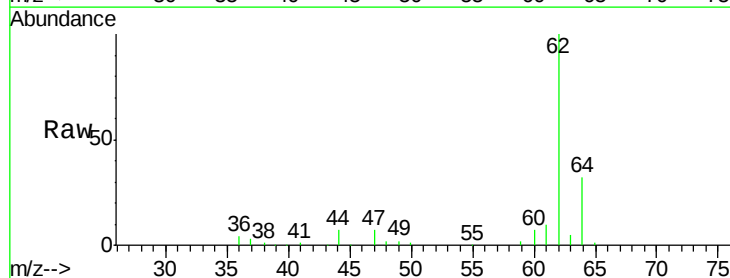
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



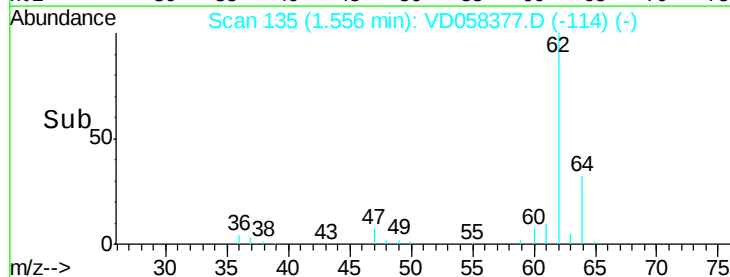
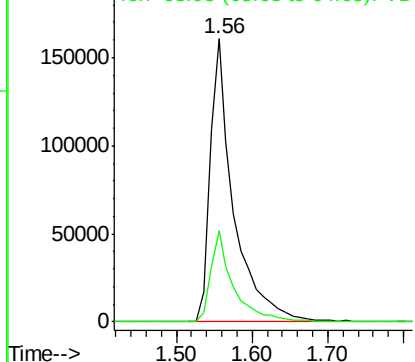
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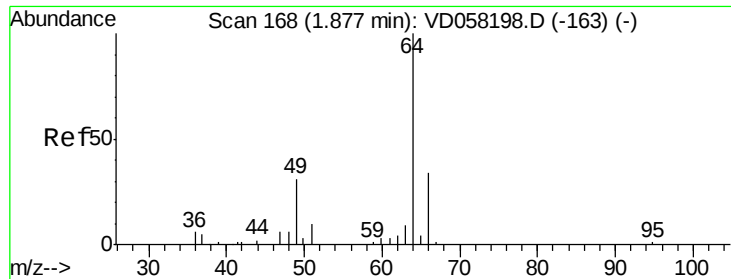
Vinyl Chloride
 Concen: 85.47 ug/l
 RT: 1.56 min Scan# 135
 Delta R.T. 0.00 min
 Lab File: VD058377.D
 Acq: 24 Jun 2018 17:46

Tgt Ion: 62 Resp: 348384
 Ion Ratio Lower Upper
 62 100
 64 32.3 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC
 Ion 63.95 (63.65 to 64.65): VDC





#6

Chloroethane

Concen: 20.39 ug/l

RT: 1.89 min Scan# 169

Delta R.T. 0.01 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

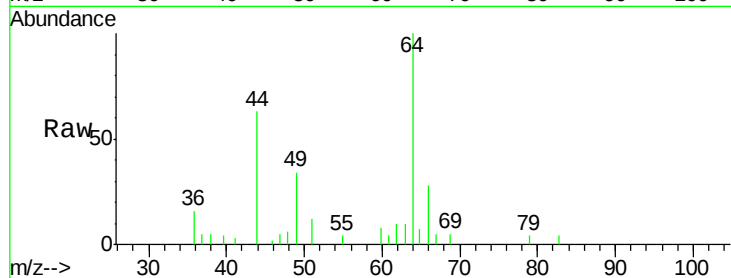
WP021SB481-19-21-180621

Tot Ion: 64 Resp: 32433

Ion Ratio Lower Upper

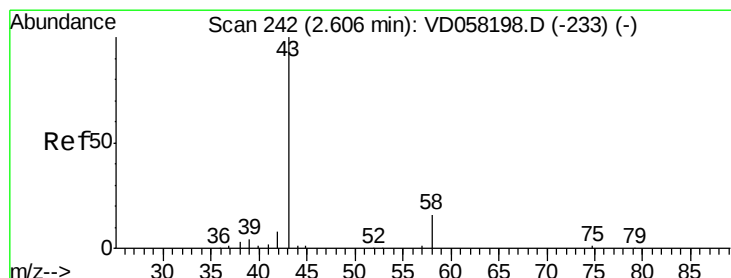
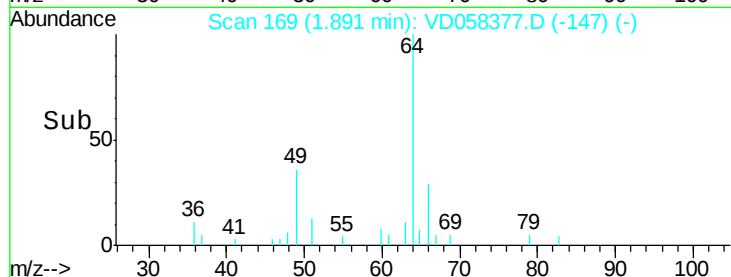
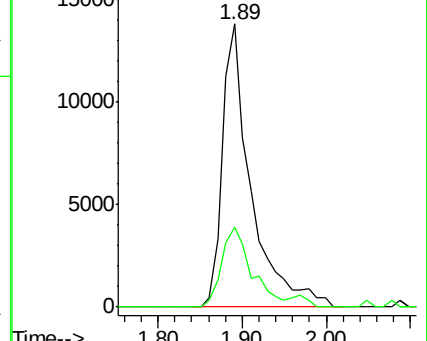
64 100

66 28.0 27.3 40.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#16

Acetone

Concen: 89.22 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058377.D

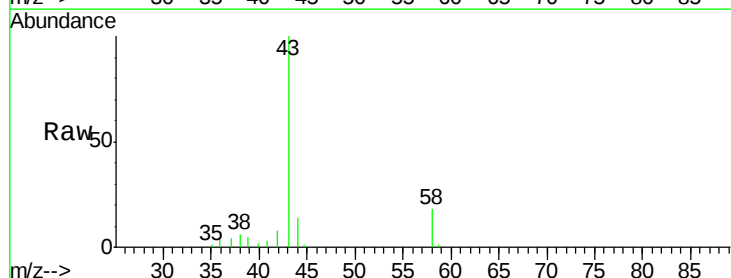
Acq: 24 Jun 2018 17:46

Tgt Ion: 43 Resp: 95894

Ion Ratio Lower Upper

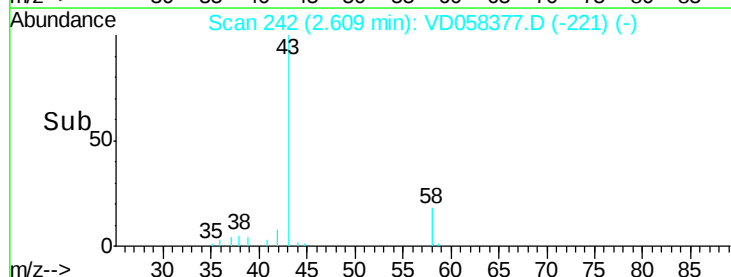
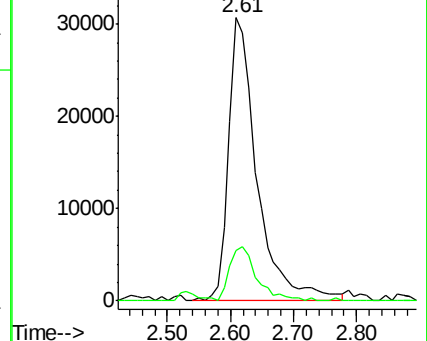
43 100

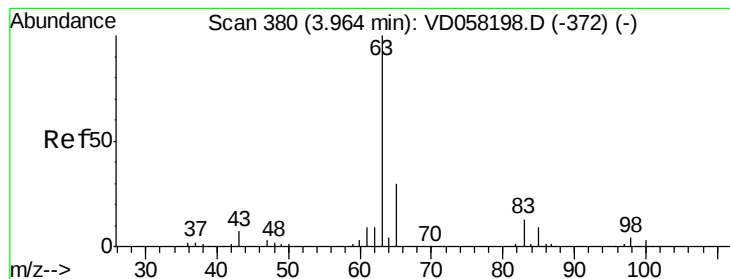
58 17.8 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#24

1,1-Dichloroethane

Concen: 8.14 ug/l

RT: 3.99 min Scan# 382

Delta R.T. 0.02 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

WP021SB481-19-21-180621

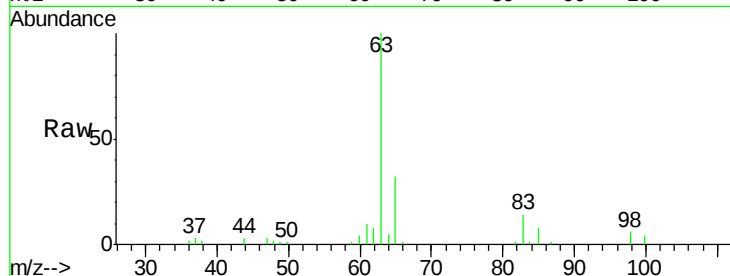
Tot Ion: 63 Resp: 108425

Ion Ratio Lower Upper

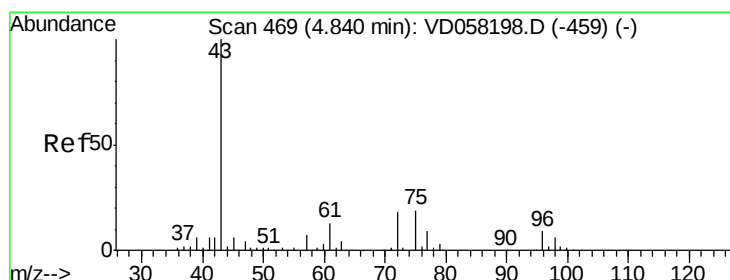
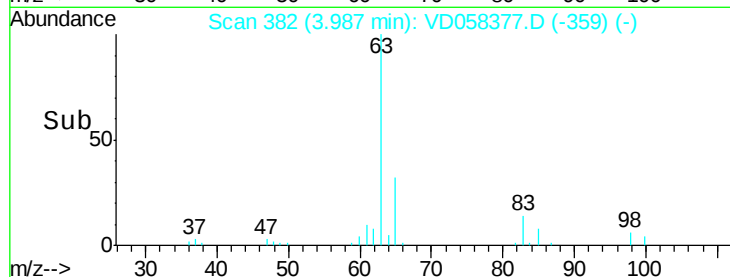
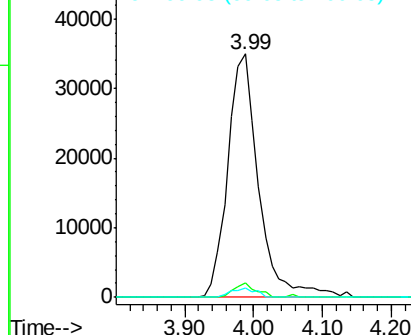
63 100

98 5.9 1.9 5.7#

100 3.8 1.3 3.9



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#25

2-Butanone

Concen: 8.40 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058377.D

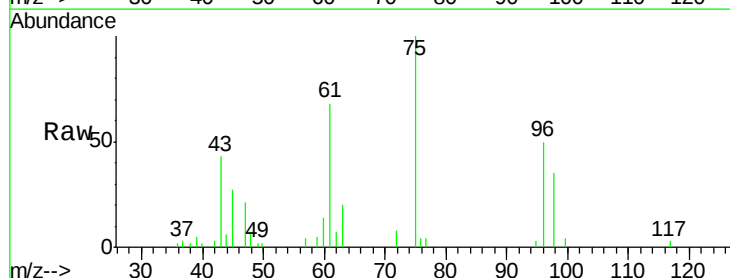
Acq: 24 Jun 2018 17:46

Tgt Ion: 43 Resp: 19676

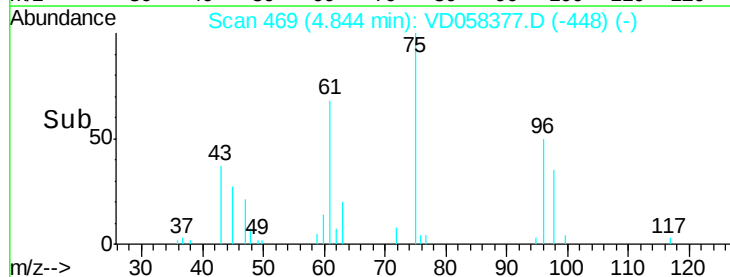
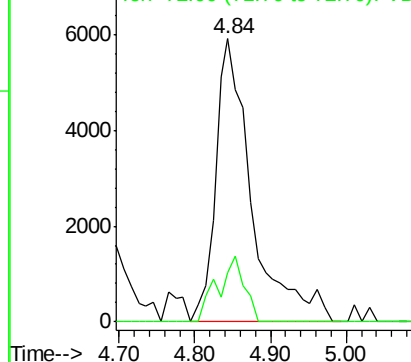
Ion Ratio Lower Upper

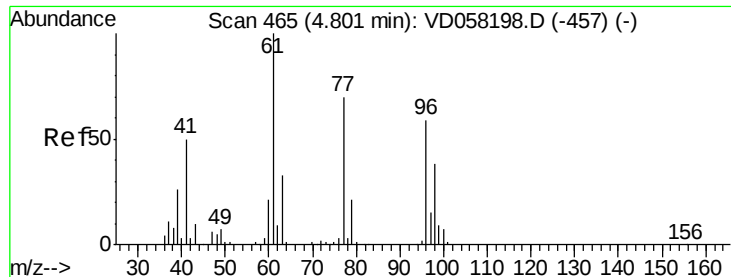
43 100

72 17.6 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#27

cis-1,2-Dichloroethene

Concen: 8.95 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

WP021SB481-19-21-180621

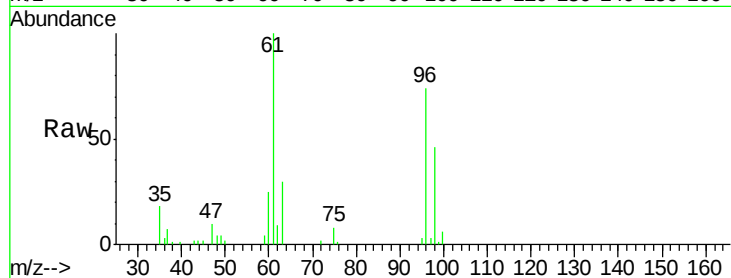
Tot Ion: 96 Resp: 65366

Ion Ratio Lower Upper

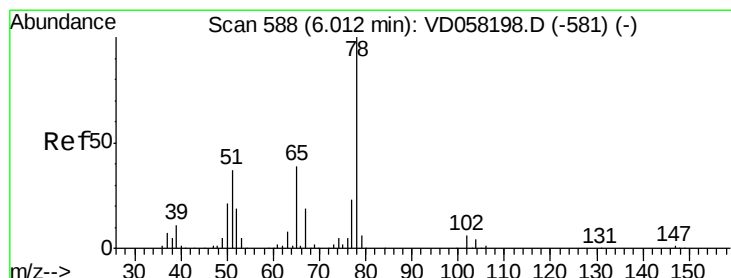
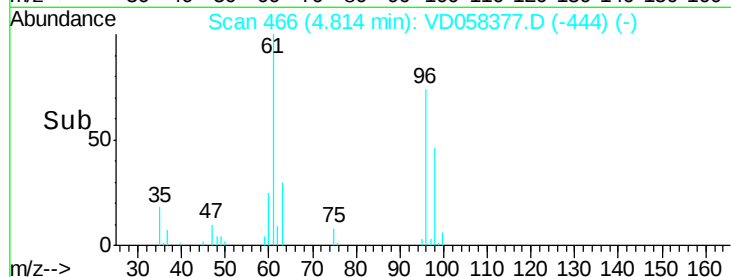
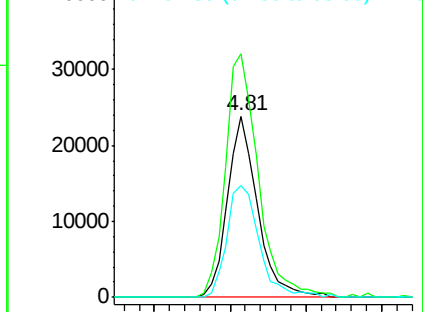
96 100

61 134.6 0.0 338.6

98 61.8 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.03 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058377.D

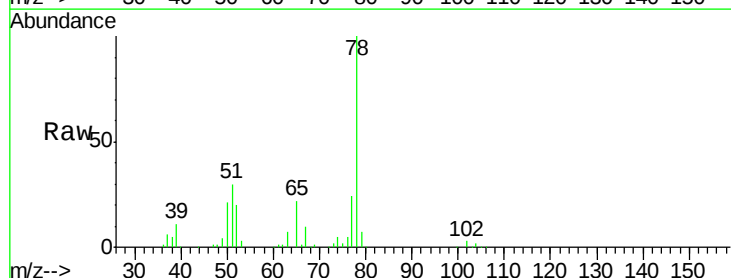
Acq: 24 Jun 2018 17:46

Tgt Ion: 65 Resp: 379559

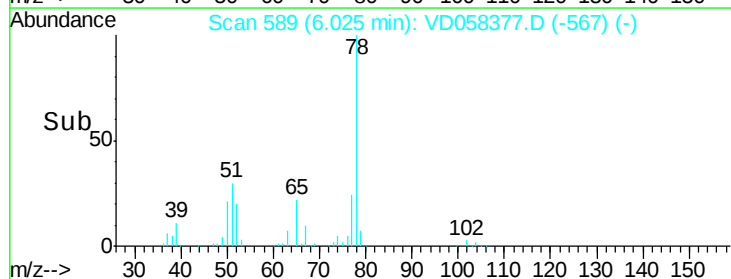
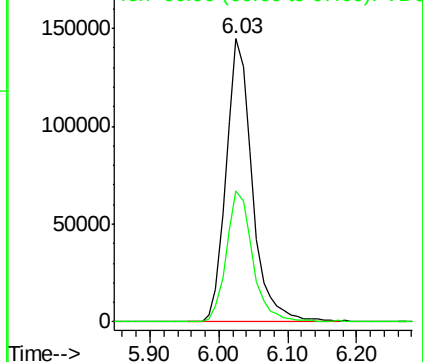
Ion Ratio Lower Upper

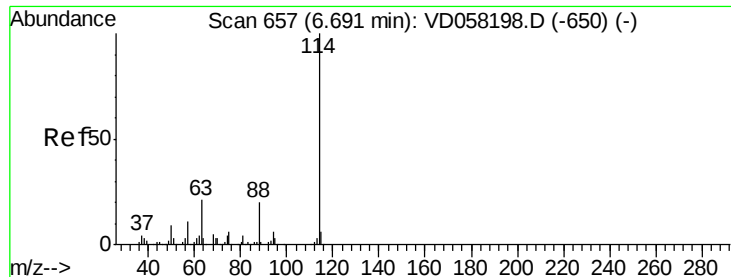
65 100

67 46.4 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: 50.00 ug/l

RT: 6.70 min Scan# 658

Delta R.T. 0.01 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

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ClientSampleId :

WP021SB481-19-21-180621

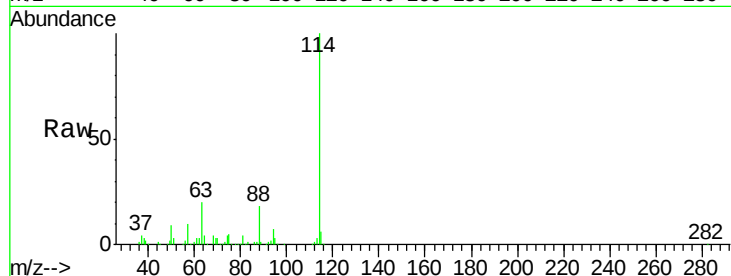
Tot Ion:114 Resp: 1034187

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

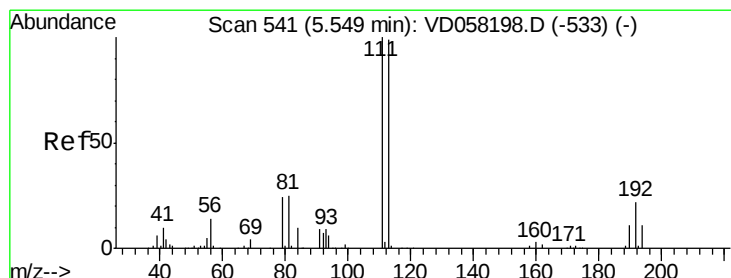
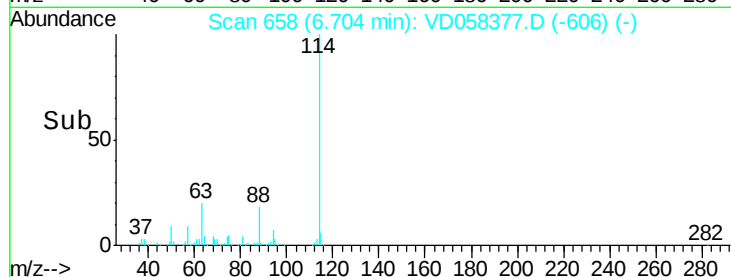
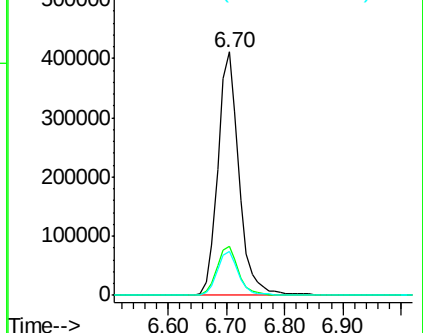
88 18.3 0.0 40.6



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: 50.00 ug/l

RT: 5.56 min Scan# 542

Delta R.T. 0.01 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

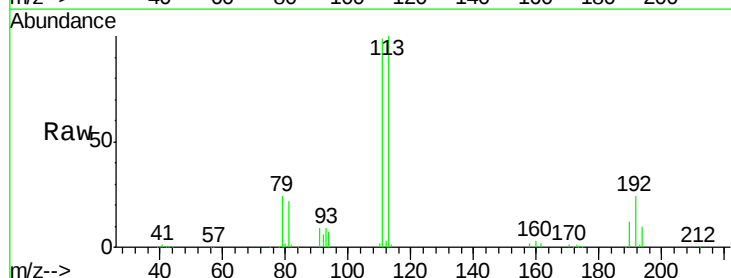
Tgt Ion:113 Resp: 420517

Ion Ratio Lower Upper

113 100

111 99.1 80.6 121.0

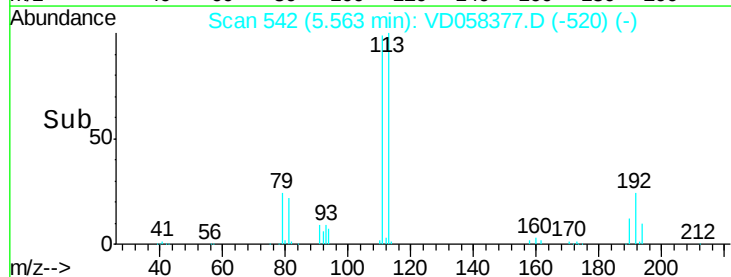
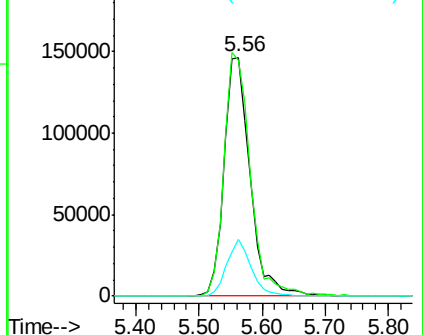
192 23.9 17.8 26.6

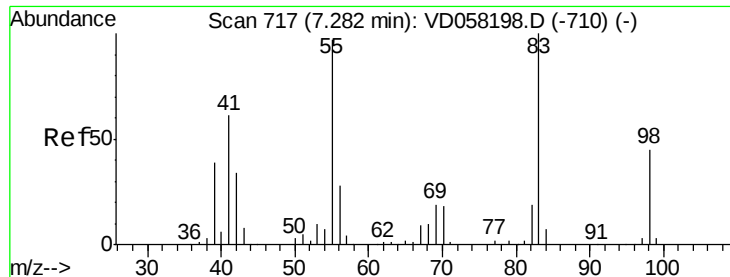


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

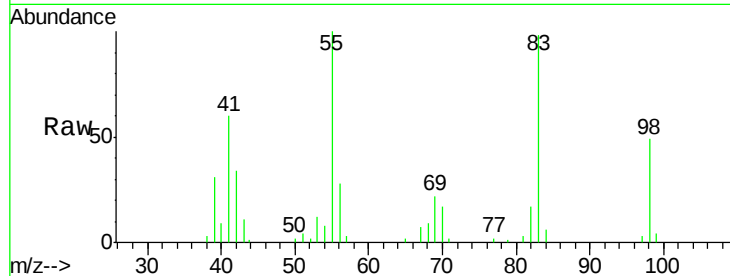




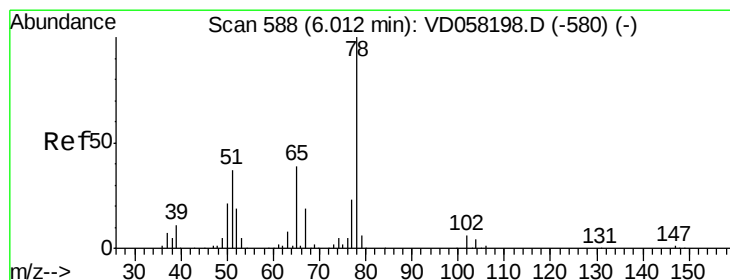
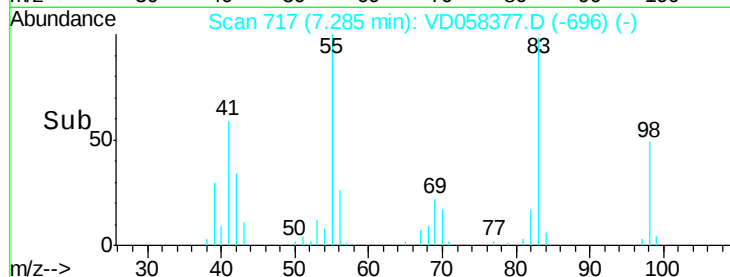
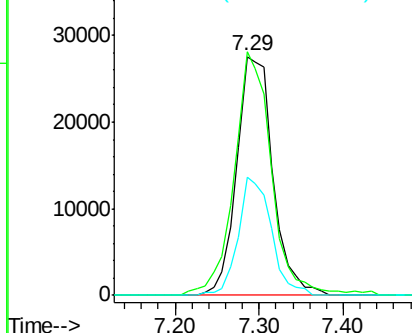
#39
Methvlcvclohexane
Concen: 8.33 ug/l
RT: 7.29 min Scan# 717
Delta R.T. 0.00 min
Lab File: VD058377.D
Acq: 24 Jun 2018 17:46

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Tot Ion: 83 Resp: 83021
Ion Ratio Lower Upper
83 100
55 102.1 77.4 116.2
98 49.7 35.9 53.9

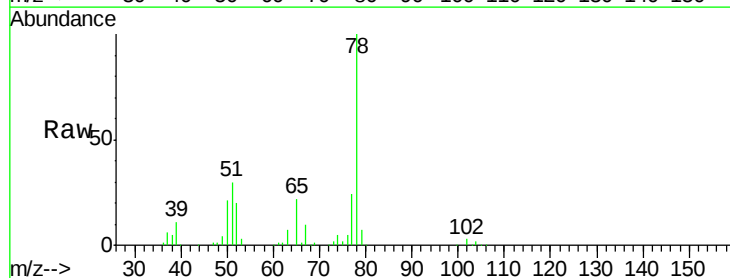


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

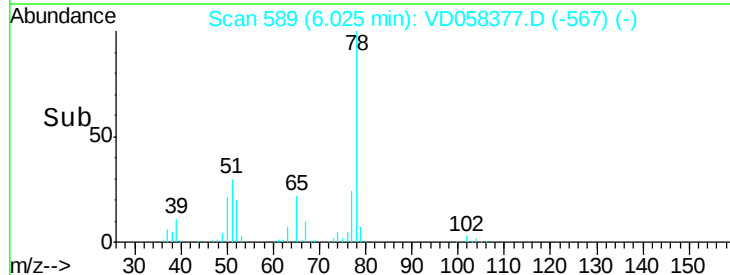
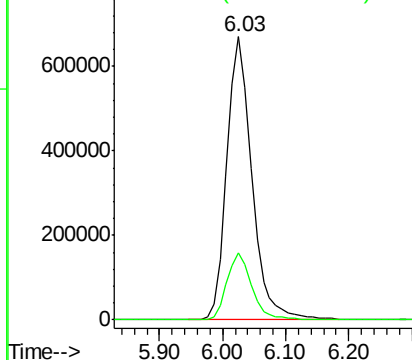


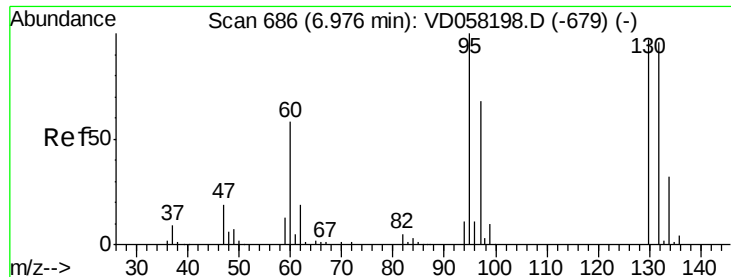
#40
Benzene
Concen: 75.81 ug/l
RT: 6.03 min Scan# 589
Delta R.T. 0.01 min
Lab File: VD058377.D
Acq: 24 Jun 2018 17:46

Tgt Ion: 78 Resp: 1847647
Ion Ratio Lower Upper
78 100
77 23.6 18.5 27.7



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#44

Trichloroethene

Concen: 2.08 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

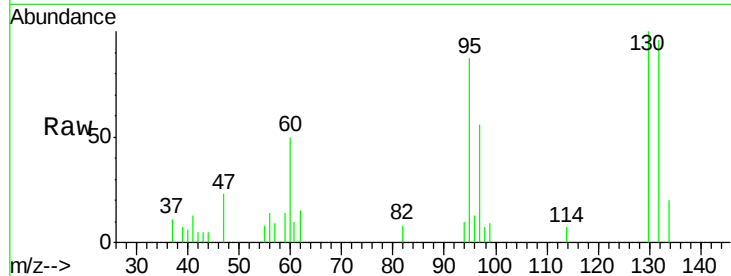
WP021SB481-19-21-180621

Tot Ion:130 Resp: 15231

Ion Ratio Lower Upper

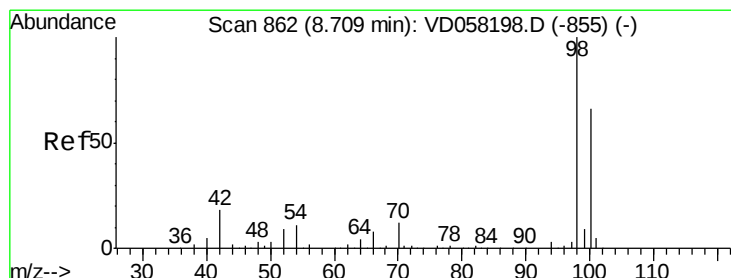
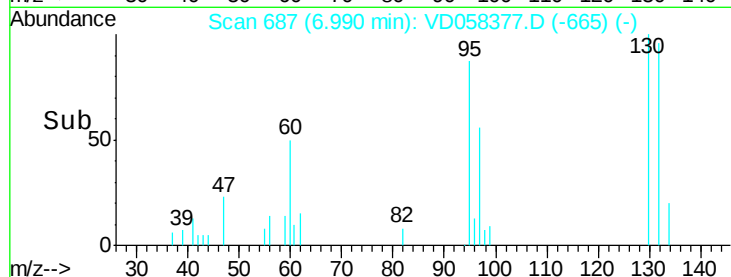
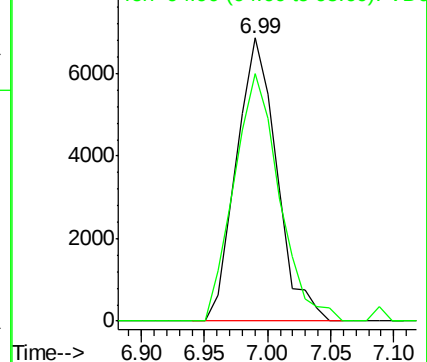
130 100

95 87.4 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058377.D

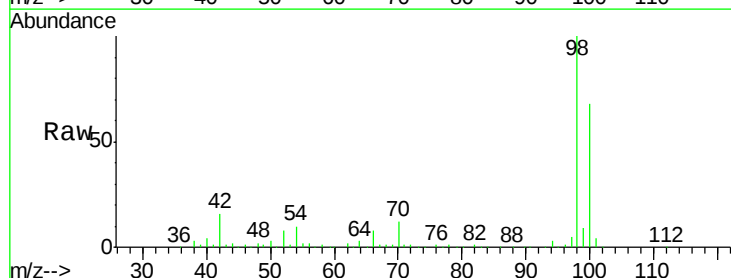
Acq: 24 Jun 2018 17:46

Tgt Ion: 98 Resp: 929764

Ion Ratio Lower Upper

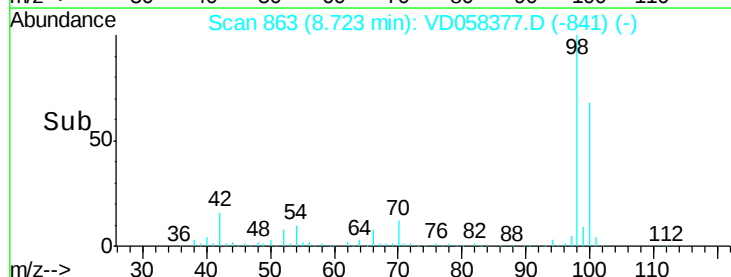
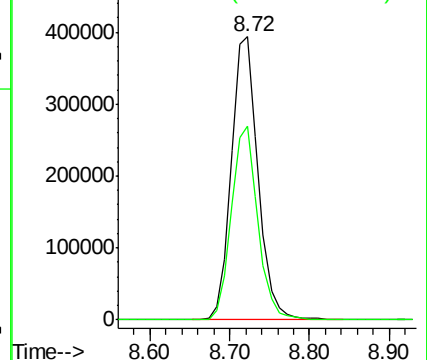
98 100

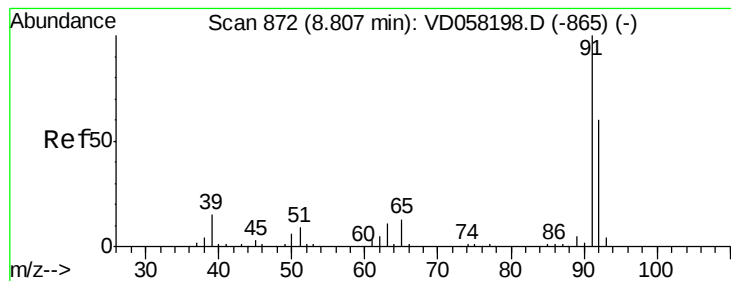
100 68.3 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 2.23 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

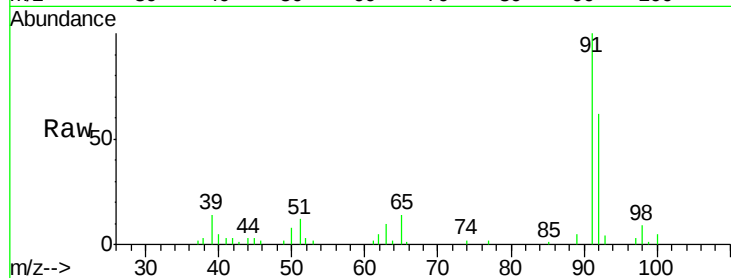
WP021SB481-19-21-180621

Tot Ion: 92 Resp: 30997

Ion Ratio Lower Upper

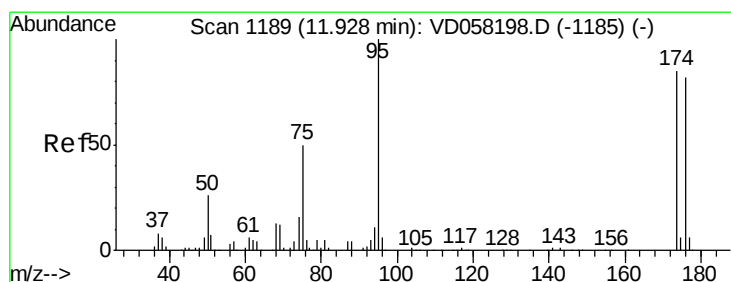
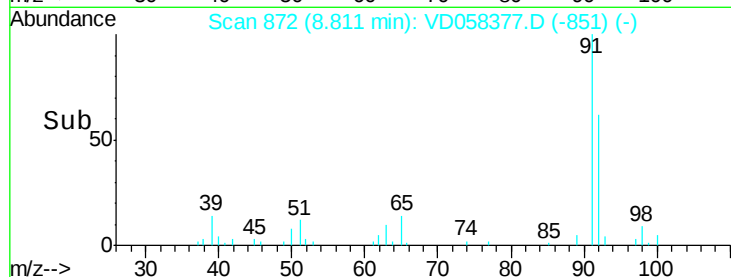
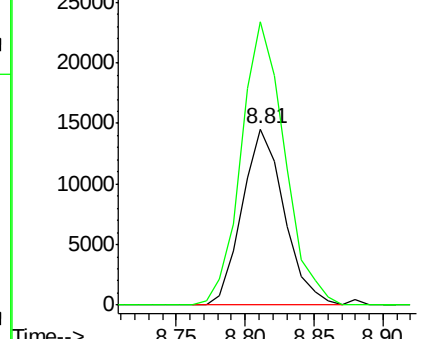
92 100

91 160.6 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

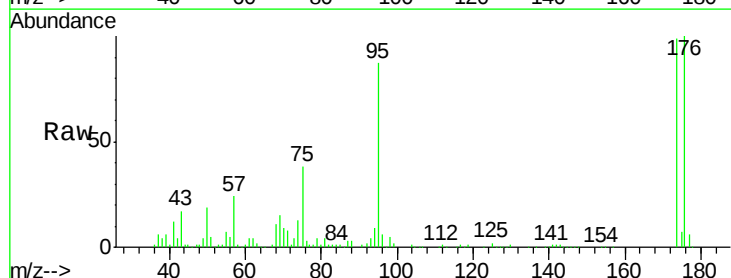
Tgt Ion: 95 Resp: 394648

Ion Ratio Lower Upper

95 100

174 114.2 0.0 170.2

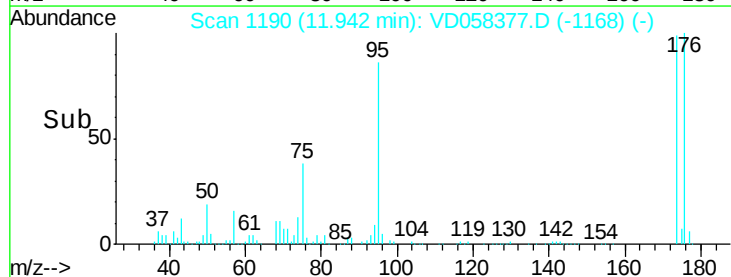
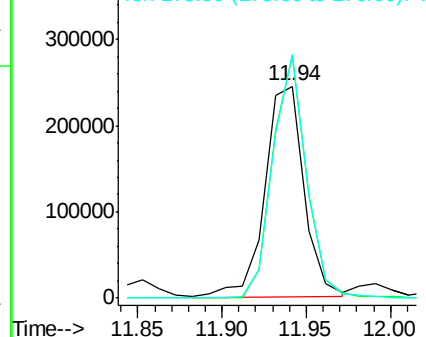
176 114.9 0.0 164.6

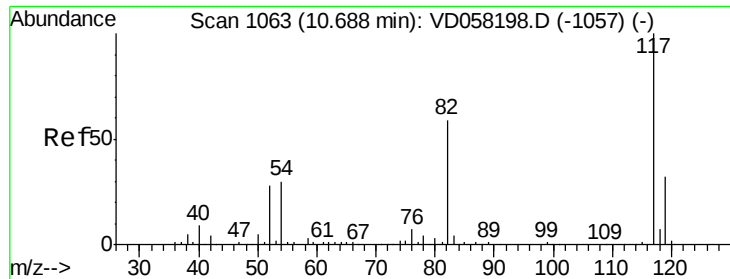


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

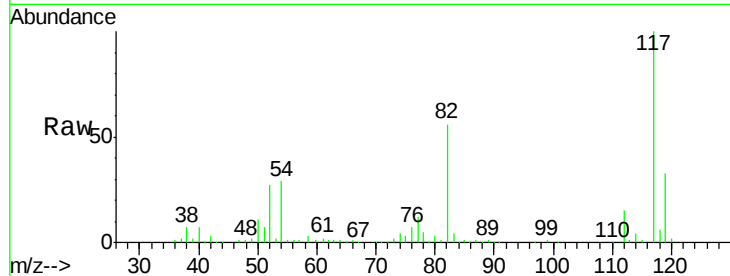




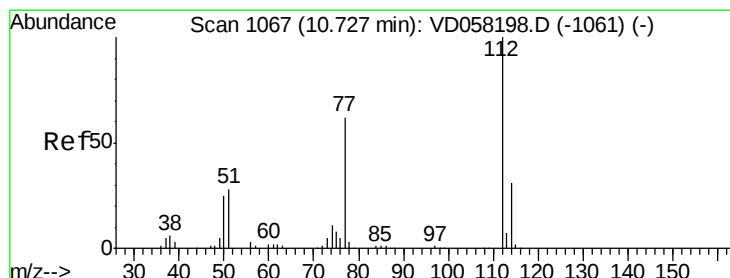
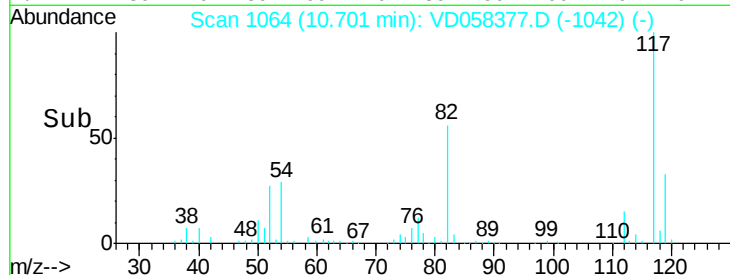
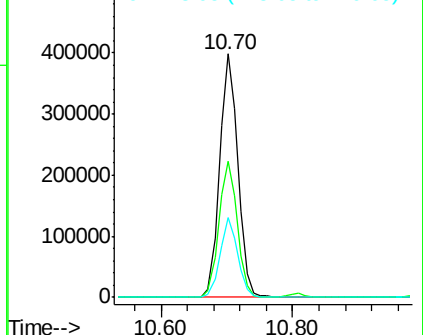
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058377.D
Acq: 24 Jun 2018 17:46

Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-19-21-180621

Tot Ion:117 Resp: 766773
Ion Ratio Lower Upper
117 100
82 56.0 47.0 70.6
119 32.8 25.3 37.9

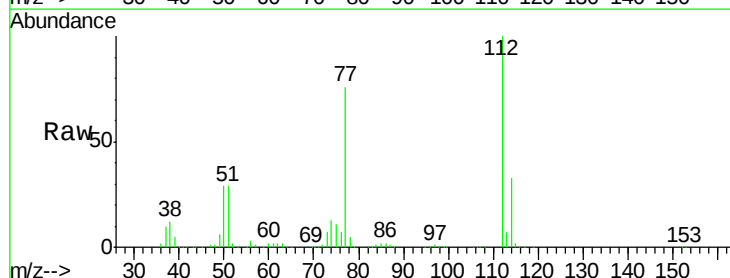


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

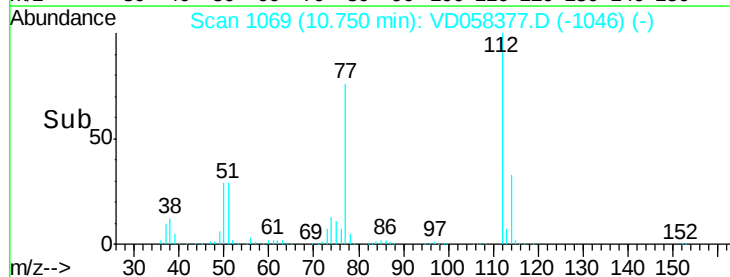
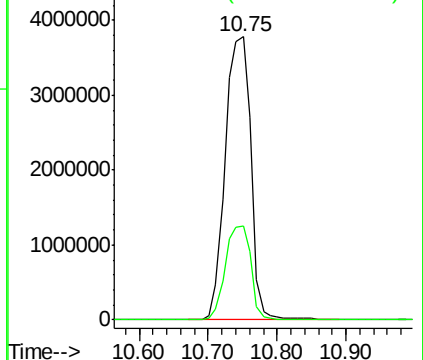


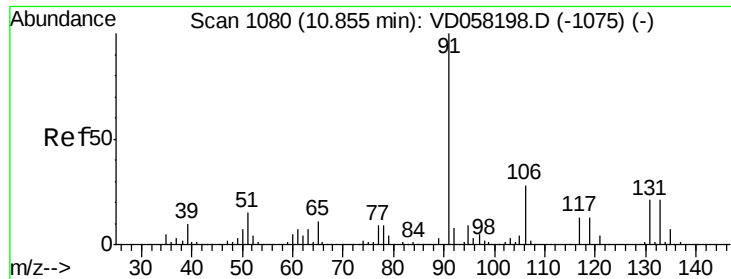
#65
Chlorobenzene
Concen: 679.28 ug/l
RT: 10.75 min Scan# 1069
Delta R.T. 0.02 min
Lab File: VD058377.D
Acq: 24 Jun 2018 17:46

Tgt Ion:112 Resp: 9742800
Ion Ratio Lower Upper
112 100
114 33.1 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

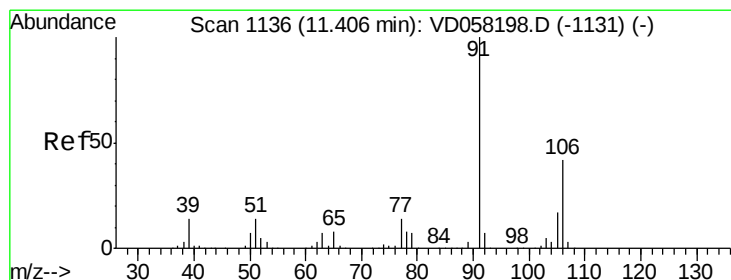
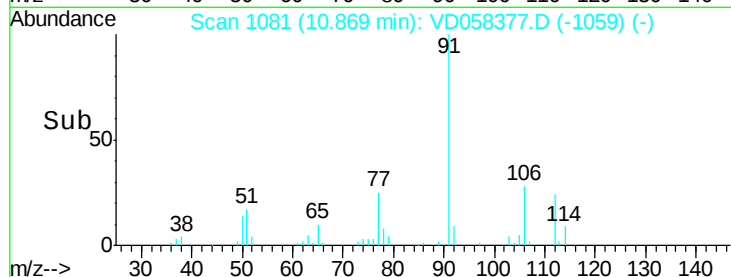
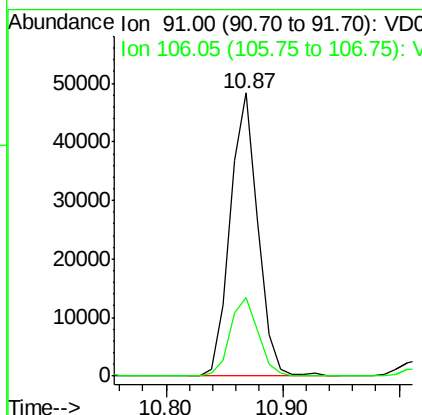
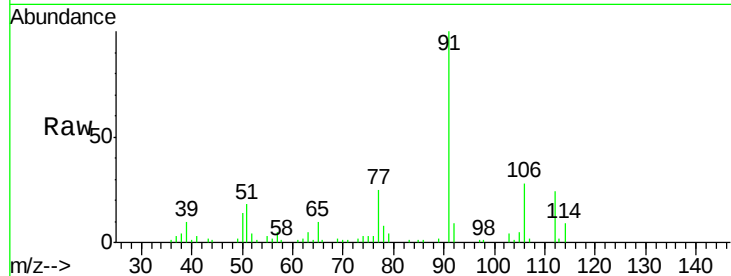




#67
Ethyl Benzene
Concen: 3.13 ug/l
RT: 10.87 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058377.D
Acq: 24 Jun 2018 17:46

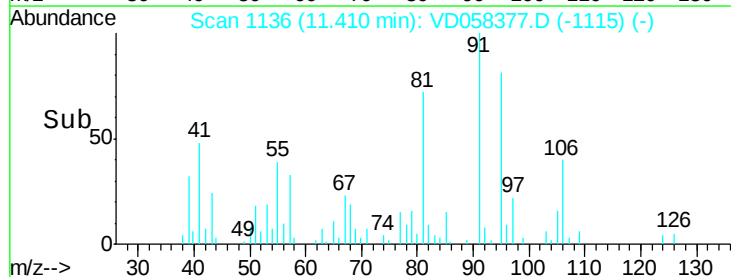
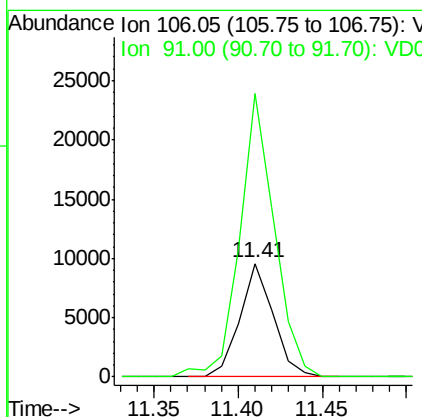
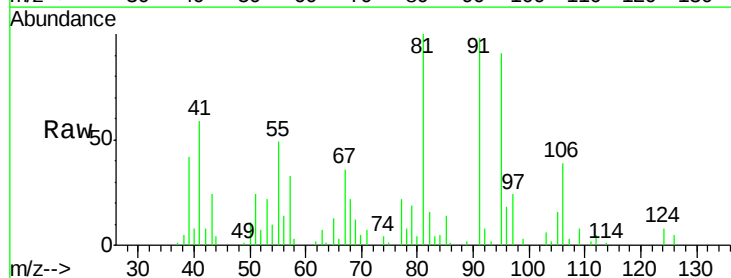
Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-19-21-180621

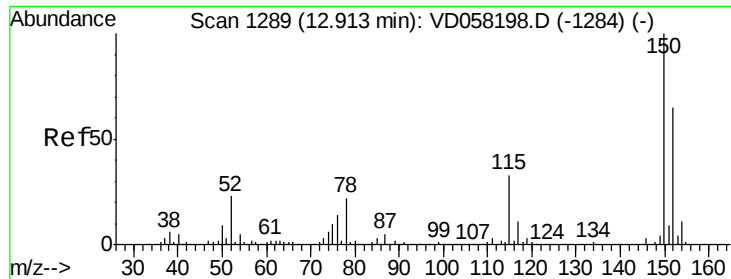
Tot Ion: 91 Resp: 79340
Ion Ratio Lower Upper
91 100
106 28.0 22.0 33.0



#69
o-Xylene
Concen: 1.64 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058377.D
Acq: 24 Jun 2018 17:46

Tgt Ion: 106 Resp: 13187
Ion Ratio Lower Upper
106 100
91 250.1 120.2 360.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.92 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

WP021SB481-19-21-180621

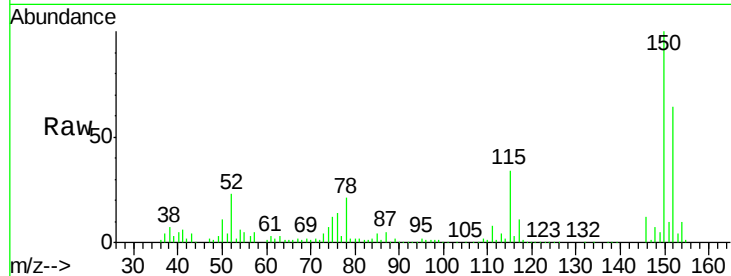
Tot Ion:152 Resp: 421448

Ion Ratio Lower Upper

152 100

115 53.4 25.1 75.3

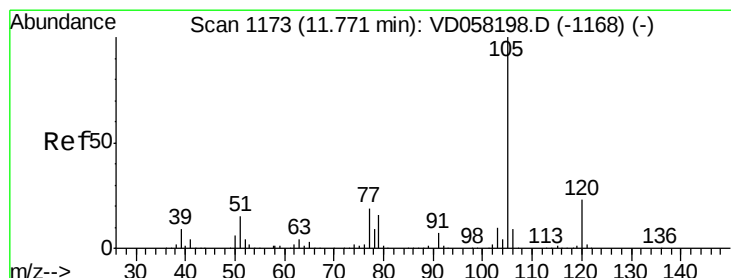
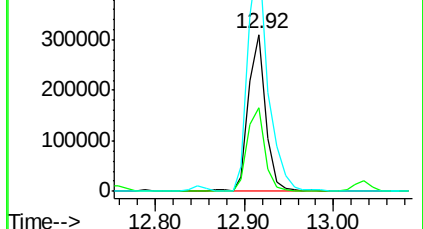
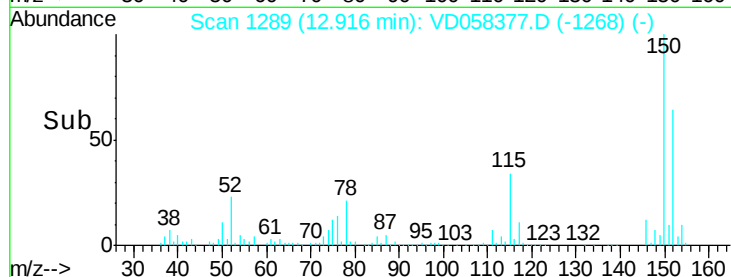
150 155.2 0.0 308.8



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



#73

Isopropylbenzene

Concen: 9.05 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058377.D

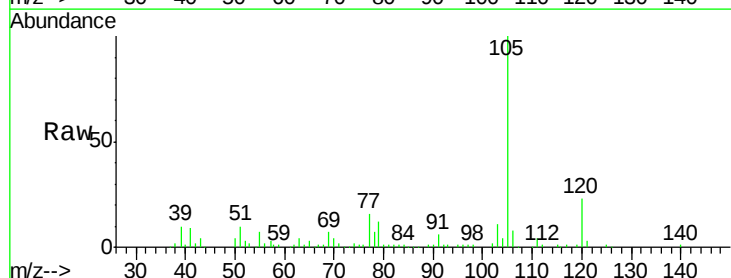
Acq: 24 Jun 2018 17:46

Tgt Ion:105 Resp: 228157

Ion Ratio Lower Upper

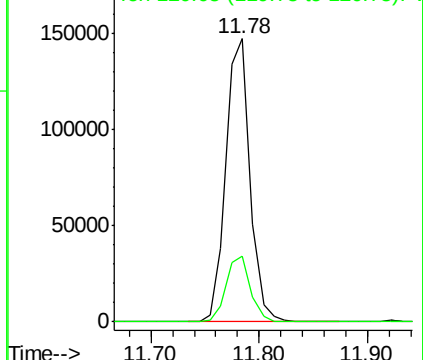
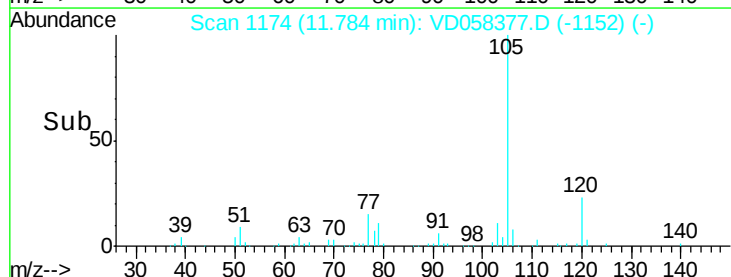
105 100

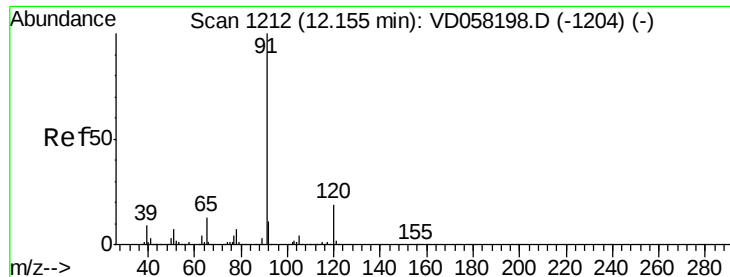
120 23.4 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 1.84 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

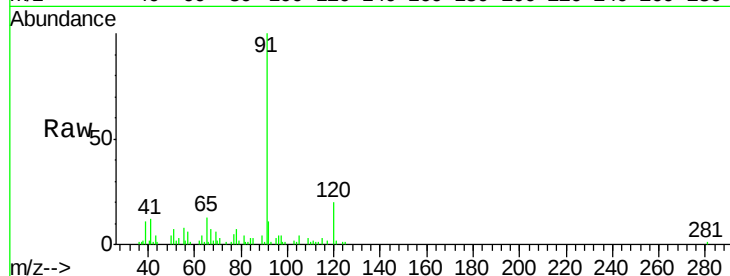
WP021SB481-19-21-180621

Tot Ion: 91 Resp: 59859

Ion Ratio Lower Upper

91 100

120 19.8 9.7 29.1

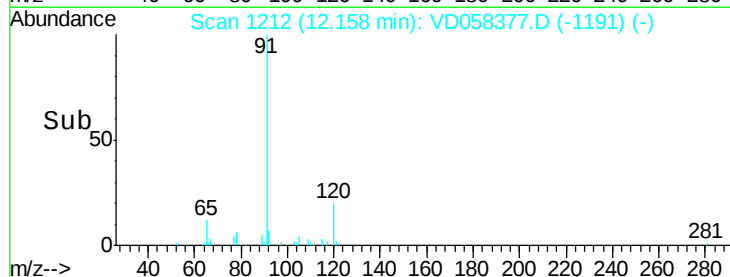


Abundance Ion 91.00 (90.70 to 91.70): VD058198.D (-1204) (-)

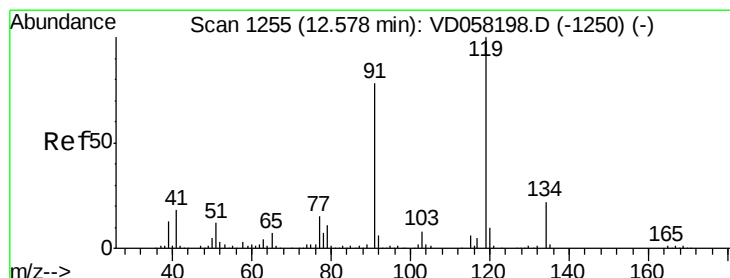
Ion 120.05 (119.75 to 120.75): VD058198.D (-1204) (-)

Time-->

12.16



Time-->



#83

tert-Butylbenzene

Concen: 8.79 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

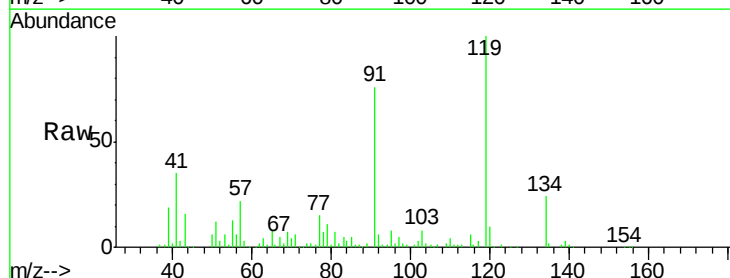
Tgt Ion: 119 Resp: 198613

Ion Ratio Lower Upper

119 100

91 75.7 38.9 116.6

134 23.5 11.2 33.5



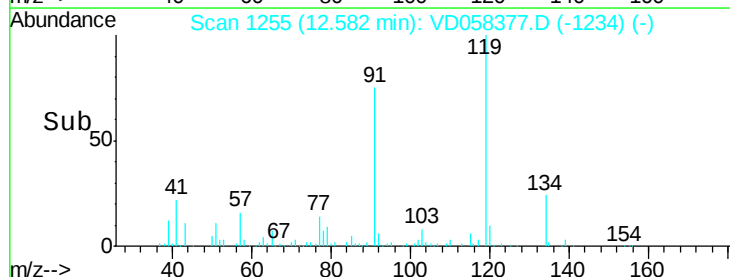
Abundance Ion 119.05 (118.75 to 119.75): VD058198.D (-1250) (-)

Ion 91.00 (90.70 to 91.70): VD058198.D (-1250) (-)

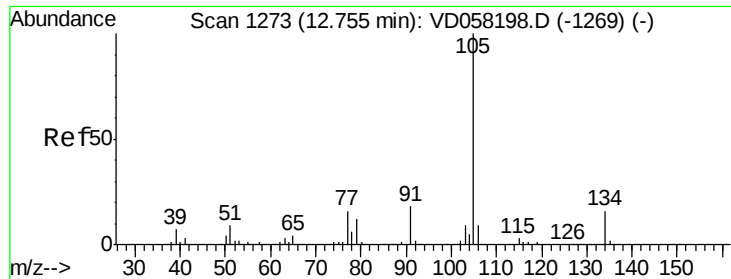
Ion 134.00 (133.70 to 134.70): VD058198.D (-1250) (-)

Time-->

12.58



Time-->



#85

sec-Butylbenzene

Concen: 17.01 ug/l

RT: 12.76 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

Instrument :

MSVOA_D

ClientSampleId :

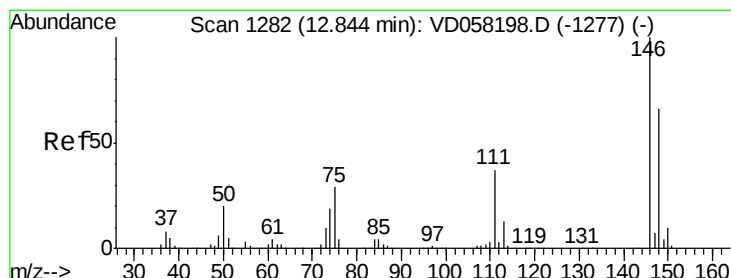
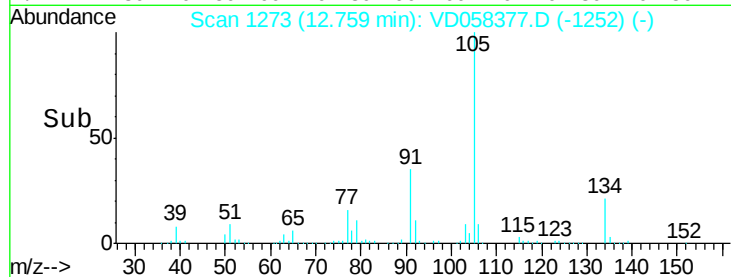
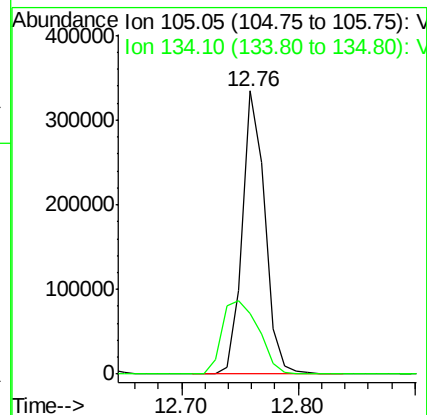
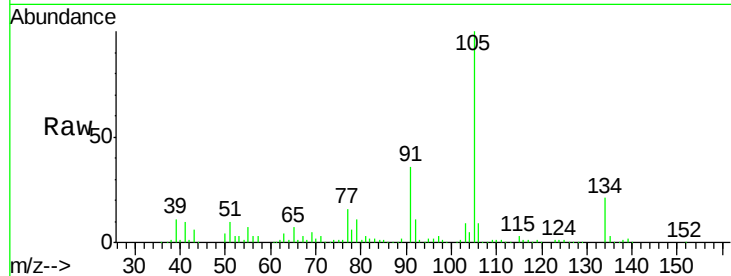
WP021SB481-19-21-180621

Tot Ion:105 Resp: 450582

Ion Ratio Lower Upper

105 100

134 21.4 8.1 24.3



#87

1,3-Dichlorobenzene

Concen: 9.24 ug/l

RT: 12.85 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD058377.D

Acq: 24 Jun 2018 17:46

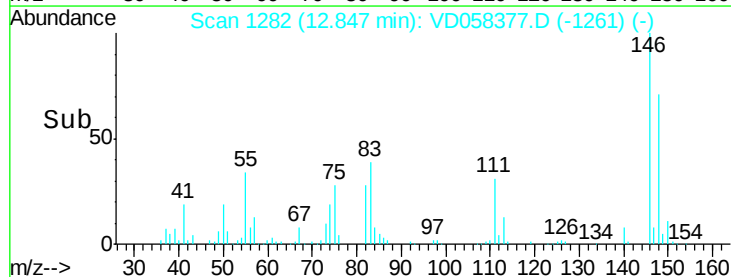
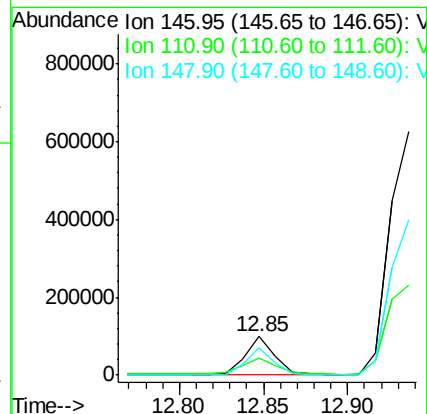
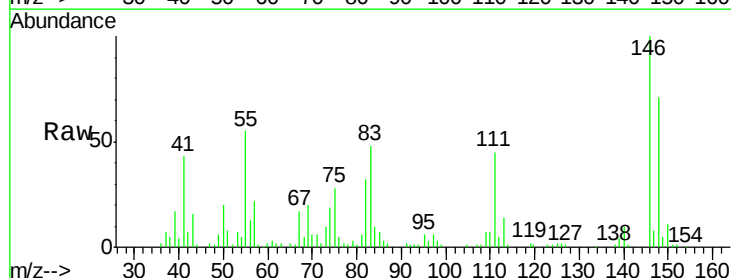
Tgt Ion:146 Resp: 121262

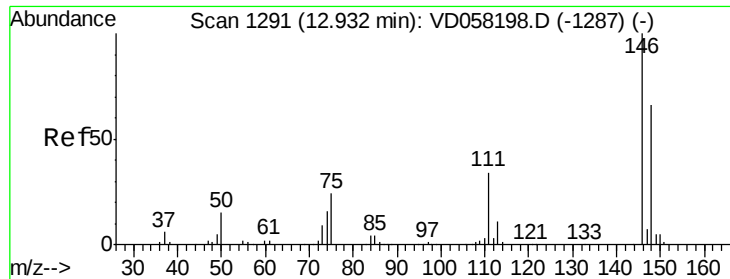
Ion Ratio Lower Upper

146 100

111 45.5 18.4 55.0

148 70.6 32.8 98.4

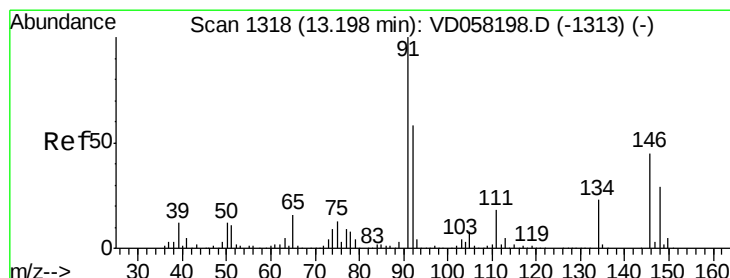
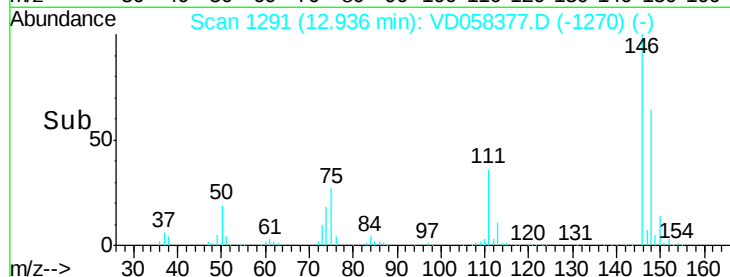
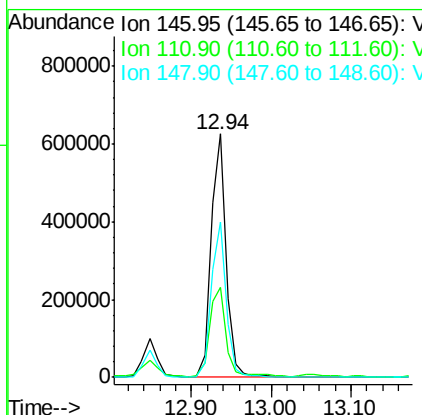
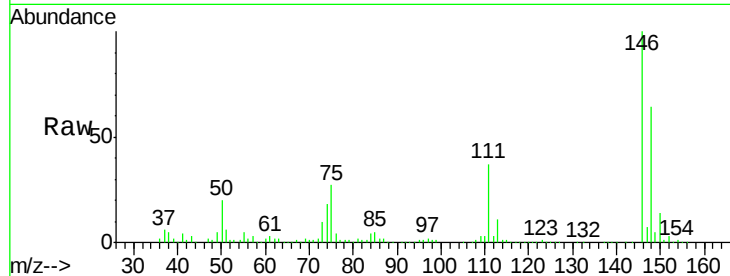




#88
 1,4-Dichlorobenzene
 Concen: 64.51 ug/l
 RT: 12.94 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058377.D
 Acq: 24 Jun 2018 17:46

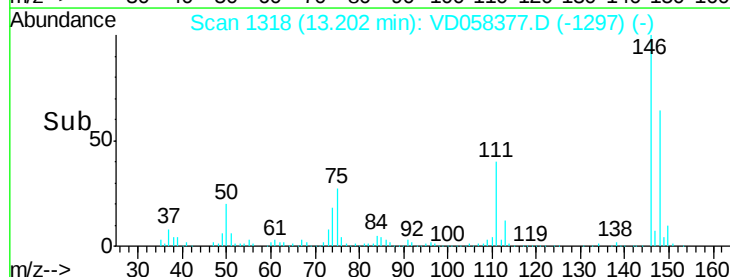
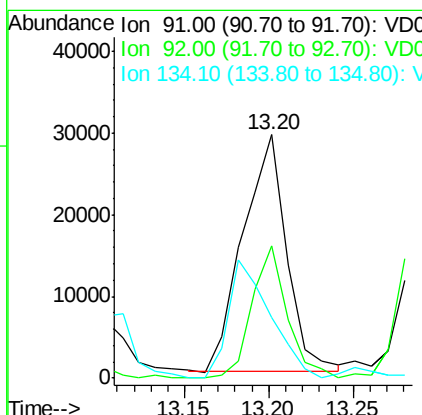
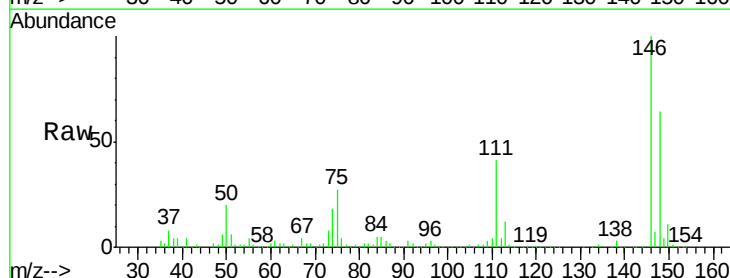
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-19-21-180621

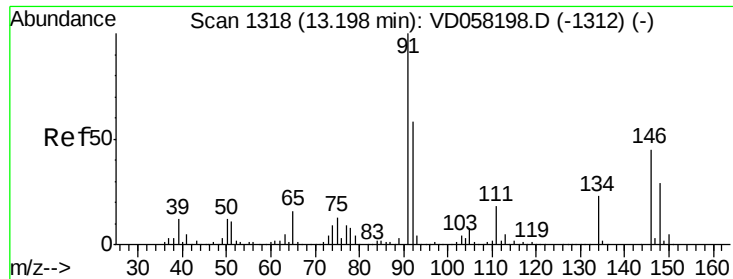
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	17.2	51.5
148	63.6	33.1	99.3



#89
 n-Butylbenzene
 Concen: 2.30 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058377.D
 Acq: 24 Jun 2018 17:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	29.2	87.6
134	24.8	11.3	33.8

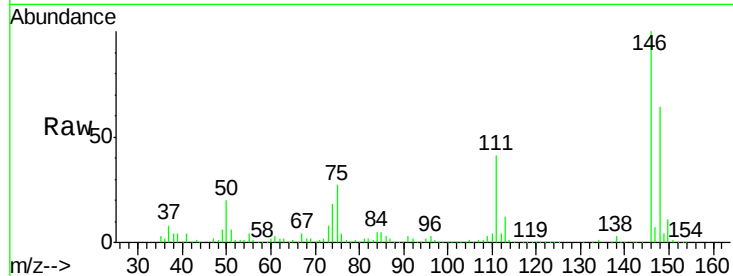




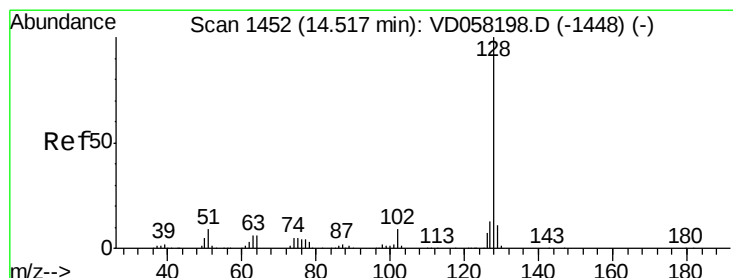
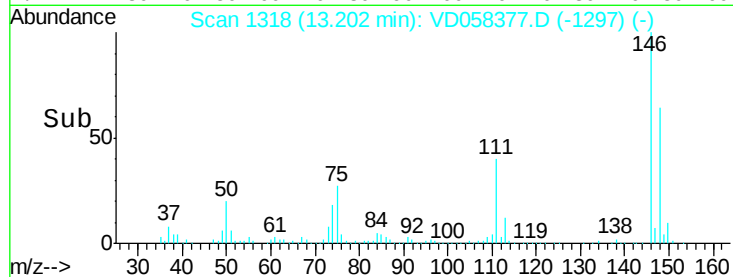
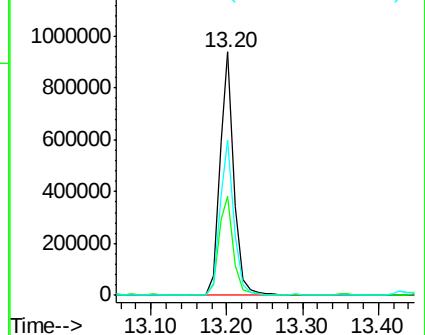
#91
 1,2-Dichlorobenzene
 Concen: 109.55 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058377.D
 Acq: 24 Jun 2018 17:46

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-19-21-180621

Tot Ion:146 Resp: 1223187
 Ion Ratio Lower Upper
 146 100
 111 40.6 19.6 58.7
 148 63.6 32.0 96.2

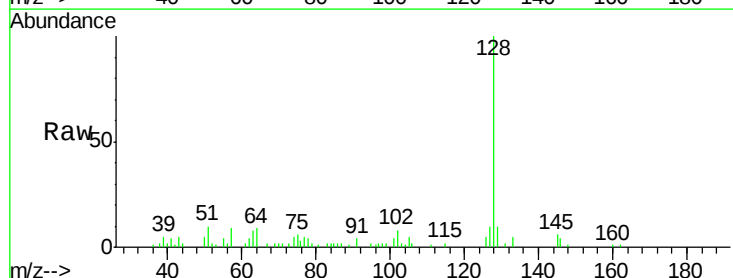


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#95
 Naphthalene
 Concen: 2.16 ug/l
 RT: 14.52 min Scan# 1452
 Delta R.T. 0.00 min
 Lab File: VD058377.D
 Acq: 24 Jun 2018 17:46

Tgt Ion:128 Resp: 30337
 Ion Ratio Lower Upper
 128 100
 127 10.2 10.0 15.0
 129 9.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

