

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
 Data File : VD062418.D
 Acq On : 16 May 2019 15:32
 Operator : FY/SY
 Sample : K2822-03RE
 Misc : 5.09g/5mL/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-3RE

Quant Time: May 17 02:29:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	14067	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	19945	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	15722	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	5180	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	8018	61.33	ug/l	0.02
Spiked Amount			Recovery	=	122.66%	
35) Dibromofluoromethane	6.92	113	8015	48.43	ug/l	0.03
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	10.42	98	15202	38.10	ug/l	0.02
Spiked Amount			Recovery	=	76.20%	
62) 4-Bromofluorobenzene	13.56	95	5952	37.15	ug/l	0.01
Spiked Amount			Recovery	=	74.30%	

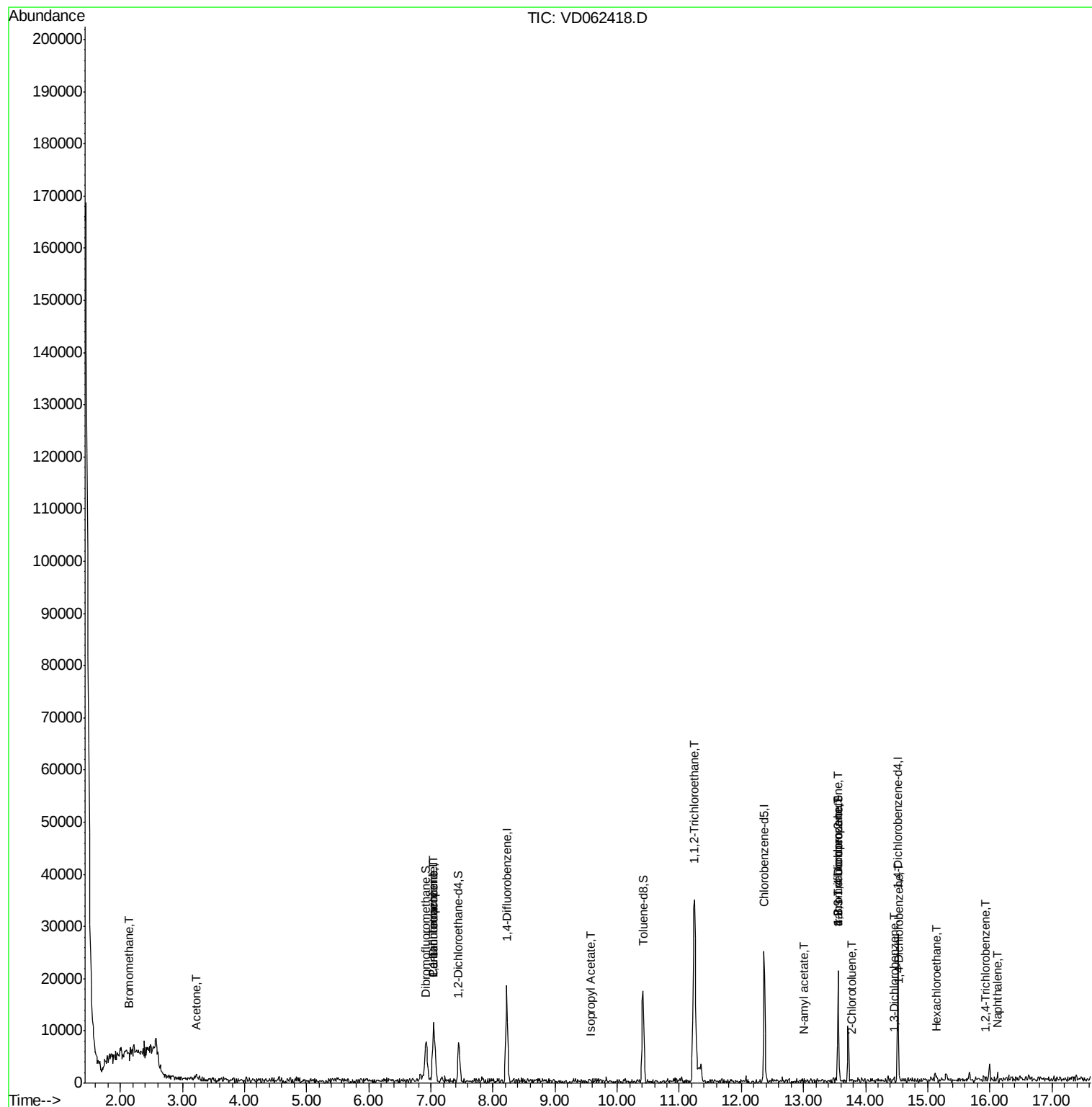
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	2194	98.005	ug/l #	12
16) Acetone	3.22	43	1738	63.397	ug/l #	70
36) 1,1-Dichloropropene	7.04	75	598	3.657	ug/l #	40
38) Carbon Tetrachloride	7.05	117	1590	7.025	ug/l #	12
43) Isopropyl Acetate	9.58	43	215	2.186	ug/l #	43
55) 1,1,2-Trichloroethane	11.22	97	198	2.329	ug/l #	16
74) N-amyl acetate	13.01	43	239	2.936	ug/l #	49
76) 1,2,3-Trichloropropane	13.56	75	2652	43.080	ug/l #	42
79) 2-Chlorotoluene	13.78	91	214	1.009	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.56	75	3261	187.643	ug/l #	16
87) 1,3-Dichlorobenzene	14.46	146	206	1.297	ug/l #	25
88) 1,4-Dichlorobenzene	14.54	146	207	1.327	ug/l #	25
90) Hexachloroethane	15.14	117	195	2.491	ug/l #	20
93) 1,2,4-Trichlorobenzene	15.95	180	195	2.049	ug/l #	11
95) Naphthalene	16.12	128	668	5.027	ug/l #	70

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleID :

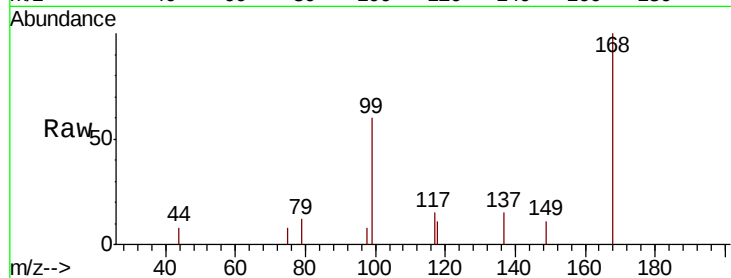
S-3RE

Tot Ion:168 Resp: 14067

Ion Ratio Lower Upper

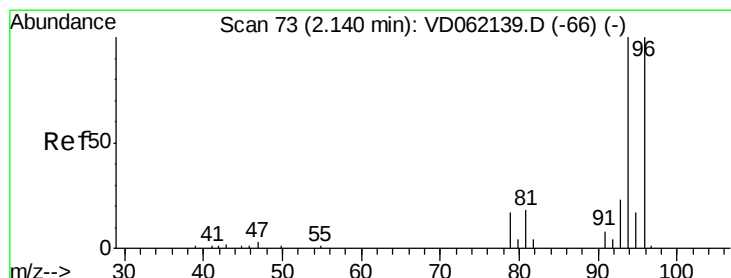
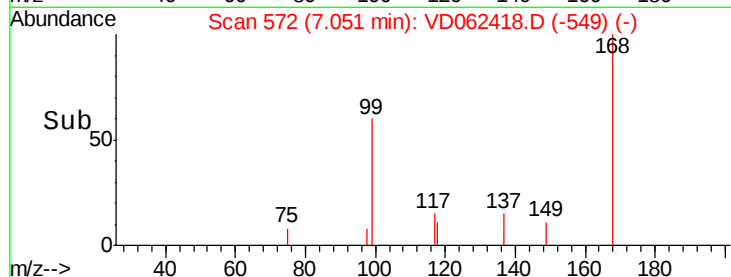
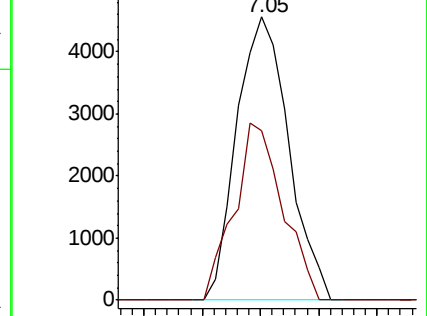
168 100

99 59.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 98.005 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

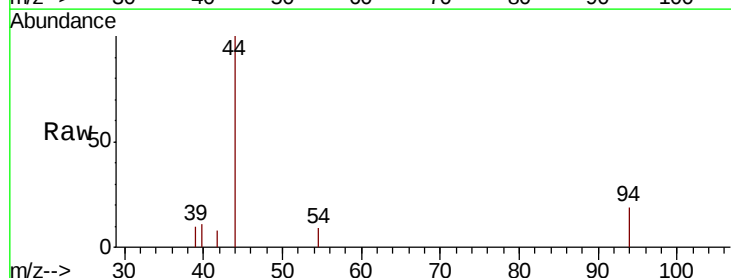
Tgt Ion: 94 Resp: 2194

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

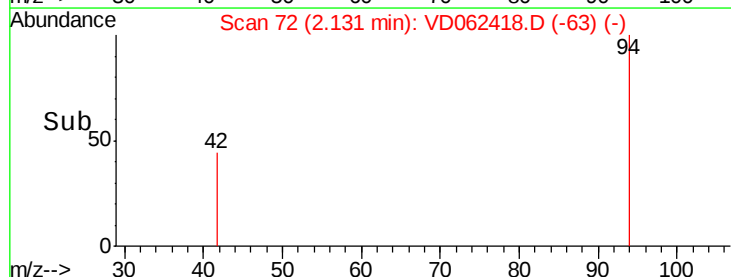
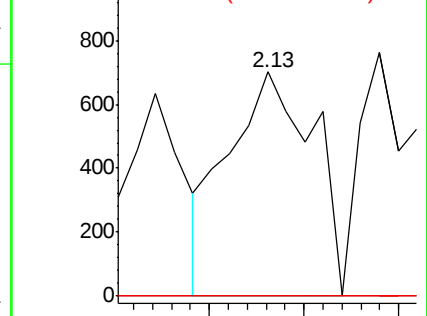
93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 63.397 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

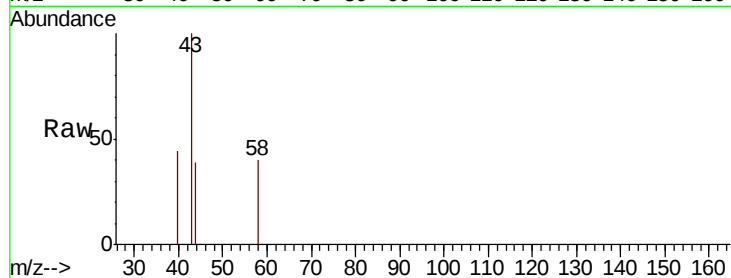
S-3RE

Tot Ion: 43 Resp: 1738

Ion Ratio Lower Upper

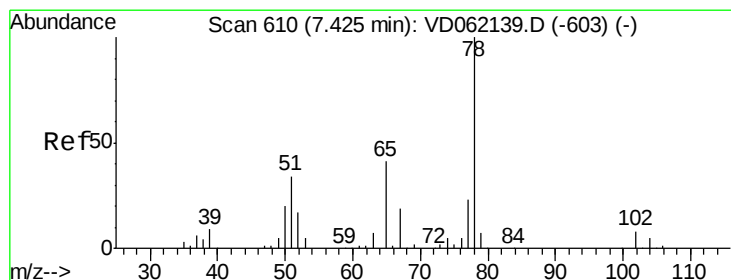
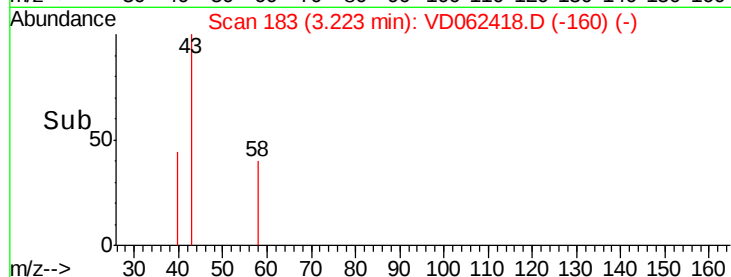
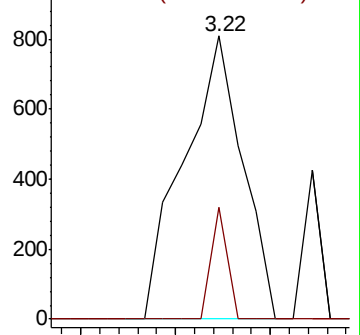
43 100

58 39.7 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 61.334 ug/l

RT: 7.44 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD062418.D

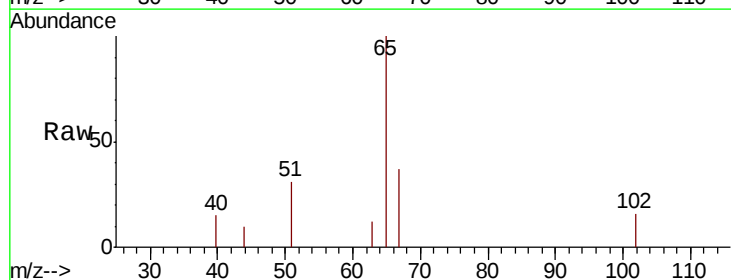
Acq: 16 May 2019 15:32

Tgt Ion: 65 Resp: 8018

Ion Ratio Lower Upper

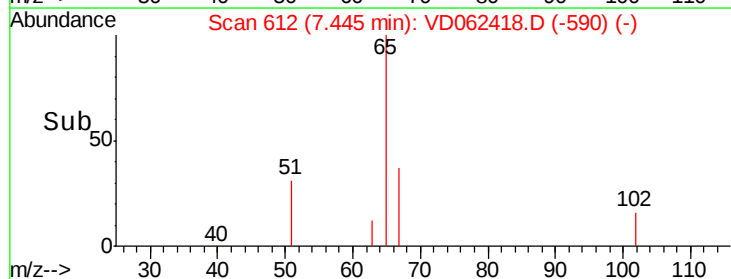
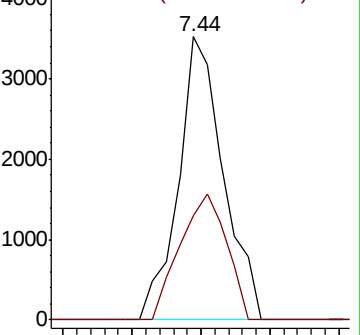
65 100

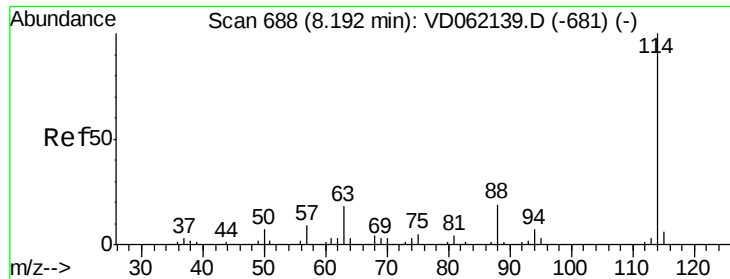
67 36.9 0.0 98.0



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# 691

Delta R.T. 0.03 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

S-3RE

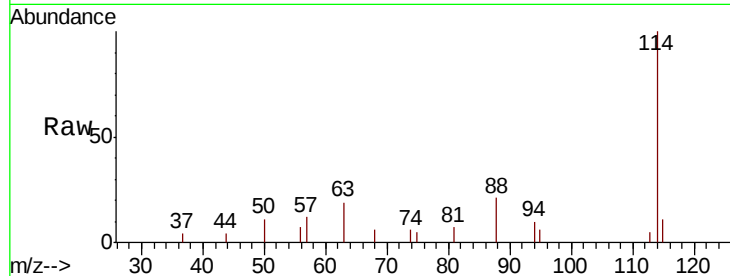
Tot Ion:114 Resp: 19945

Ion Ratio Lower Upper

114 100

63 19.0 0.0 32.4

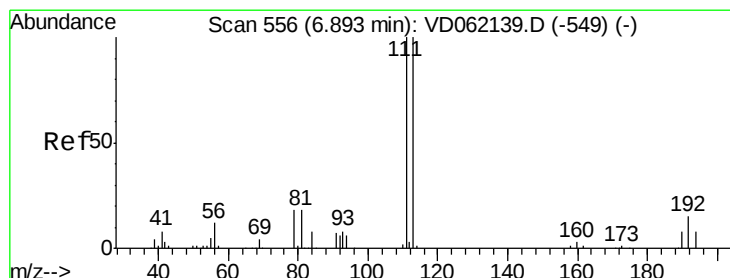
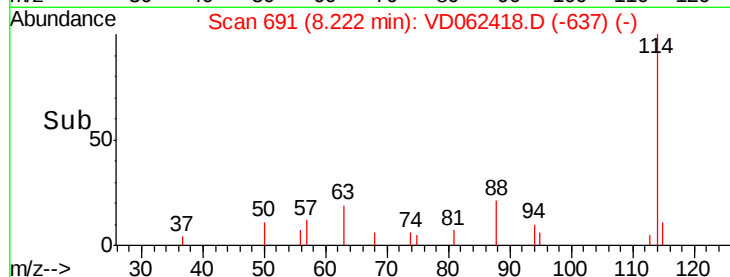
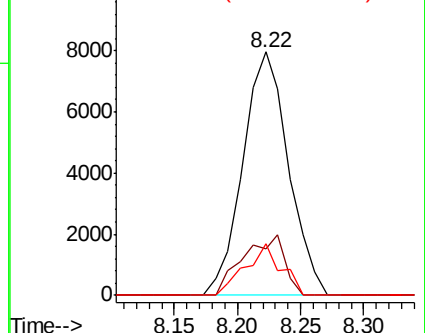
88 21.0 0.0 33.6



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: 48.433 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

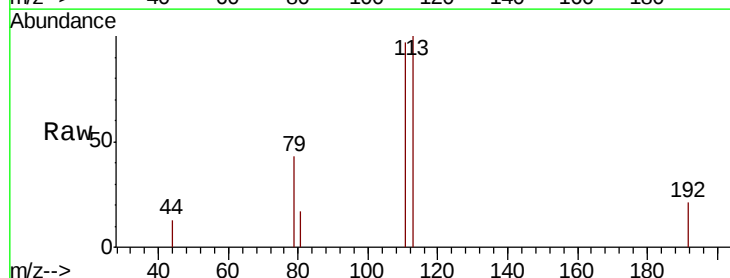
Tgt Ion:113 Resp: 8015

Ion Ratio Lower Upper

113 100

111 97.0 78.5 117.7

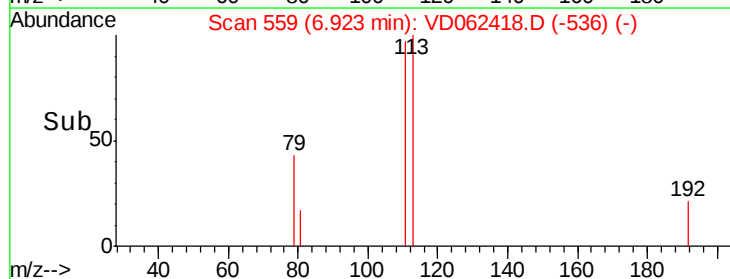
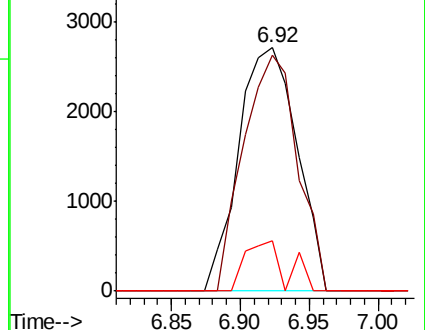
192 20.6 13.0 19.4#

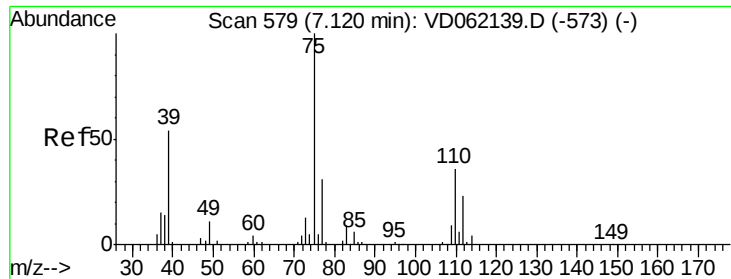


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 3.657 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

S-3RE

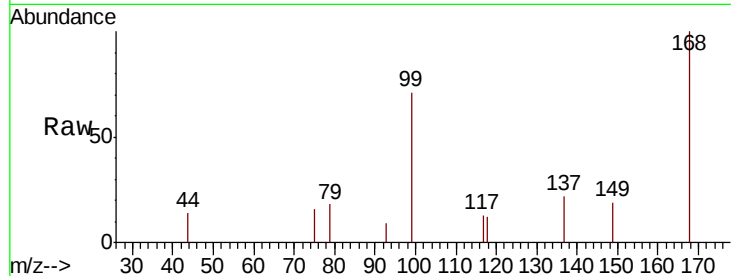
Tot Ion: 75 Resp: 598

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

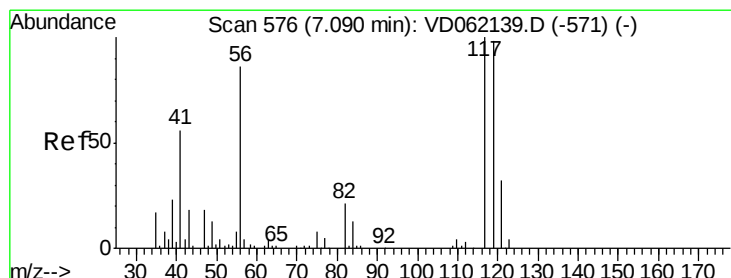
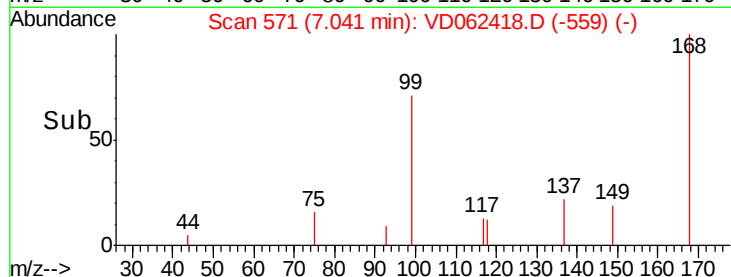
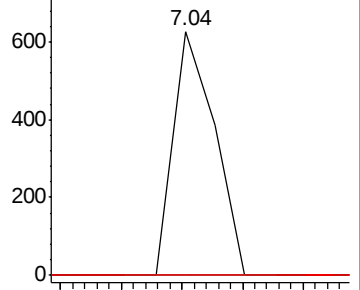
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 7.025 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

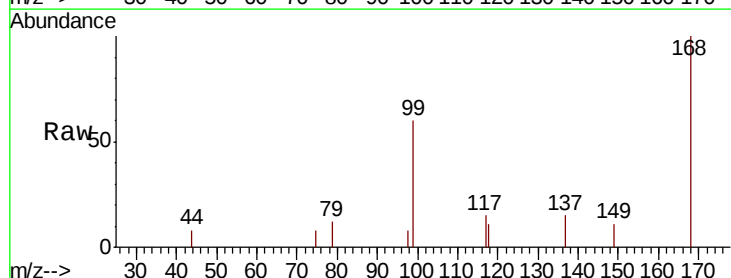
Tgt Ion: 117 Resp: 1590

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

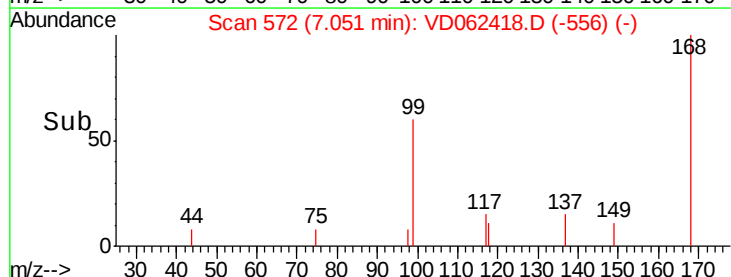
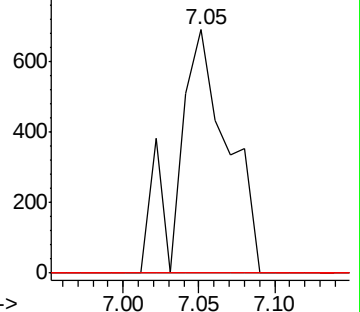
121 0.0 25.9 38.9#

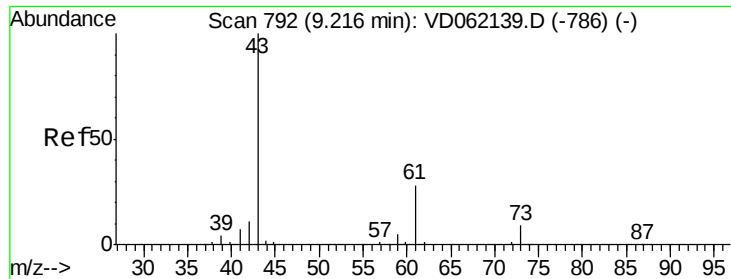


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#43

Isopropyl Acetate

Concen: 2.186 ug/l

RT: 9.58 min Scan# 829

Delta R.T. 0.36 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

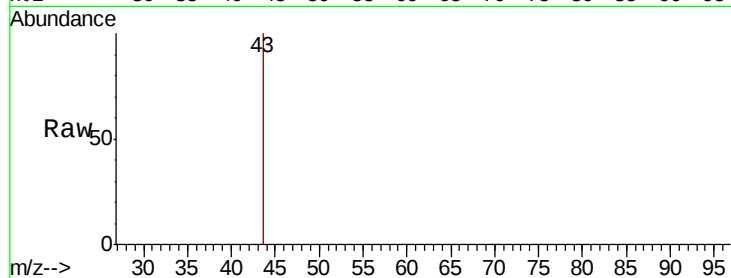
MSVOA_D

ClientSampleId :

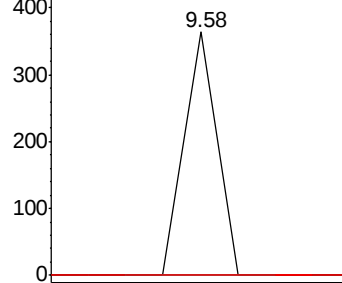
S-3RE

Tot Ion: 43 Resp: 215

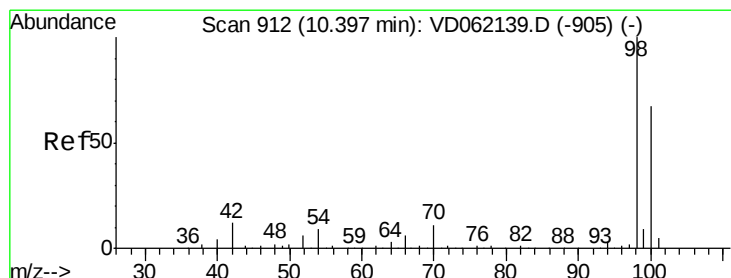
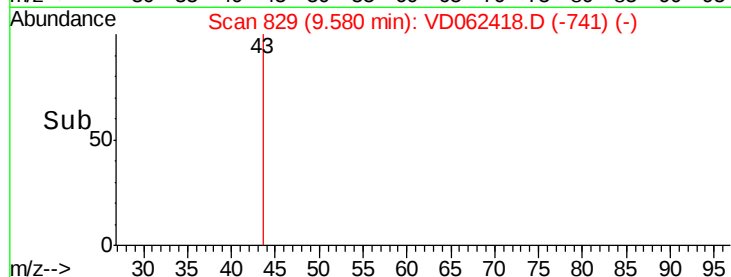
Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.1	37.7#
87	0.0	0.0	0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



Time-->



#50

Toluene-d8

Concen: 38.100 ug/l

RT: 10.42 min Scan# 914

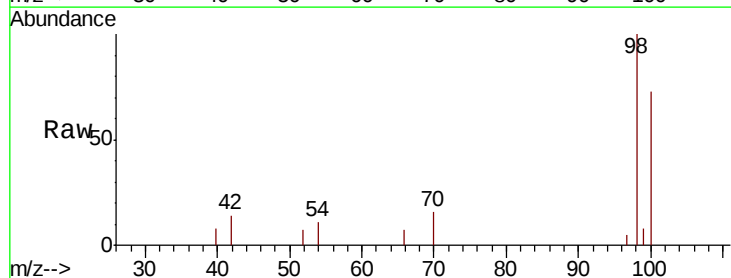
Delta R.T. 0.02 min

Lab File: VD062418.D

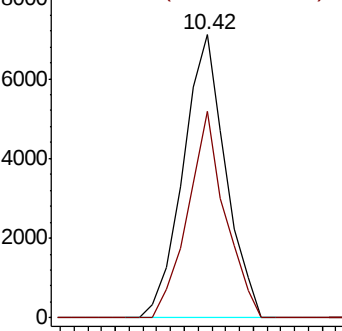
Acq: 16 May 2019 15:32

Tgt Ion: 98 Resp: 15202

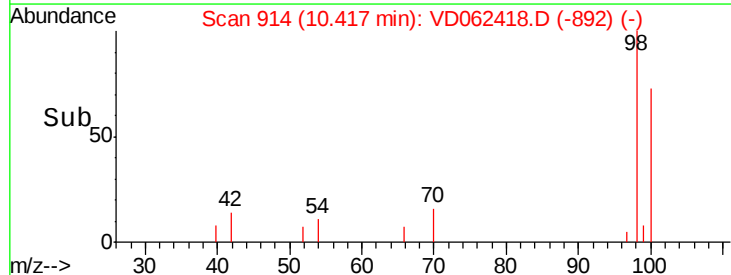
Ion	Ratio	Lower	Upper
98	100		
100	73.0	53.8	80.8

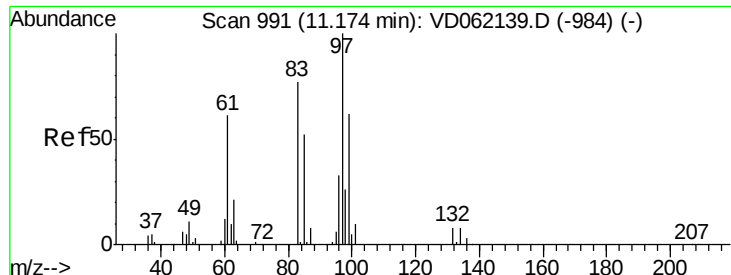


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



Time-->

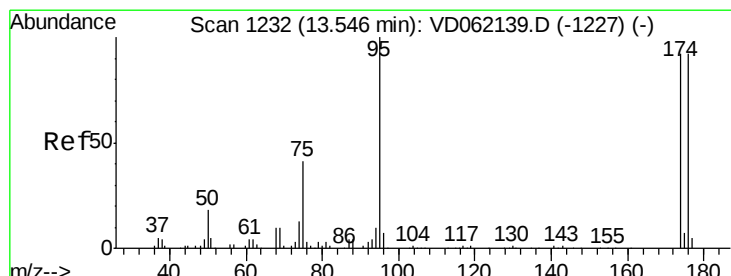
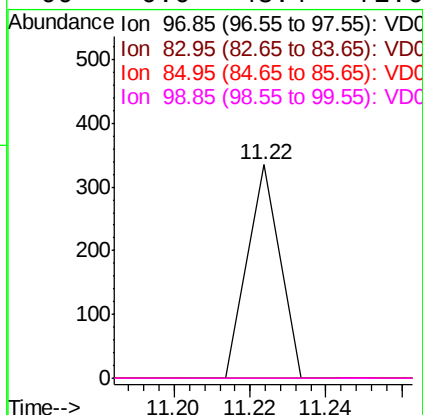
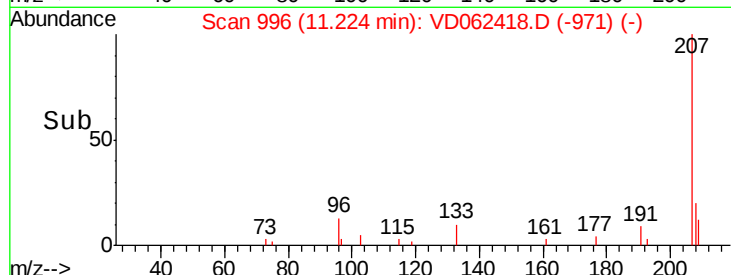
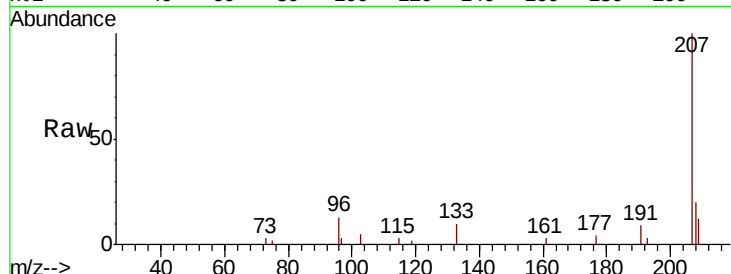




#55
 1,1,2-Trichloroethane
 Concen: 2.329 ug/l
 RT: 11.22 min Scan# 996
 Delta R.T. 0.05 min
 Lab File: VD062418.D
 Acq: 16 May 2019 15:32

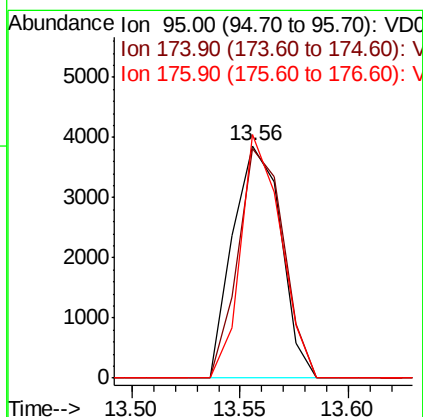
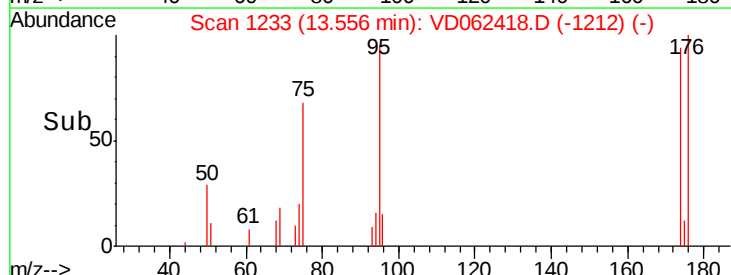
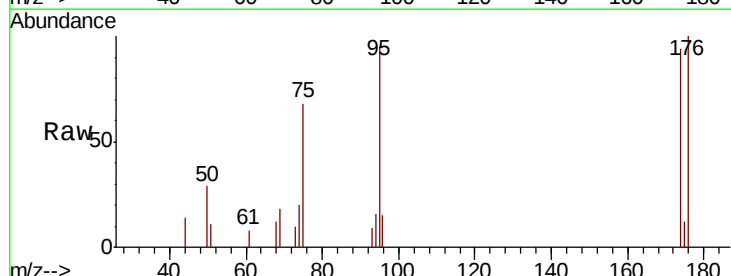
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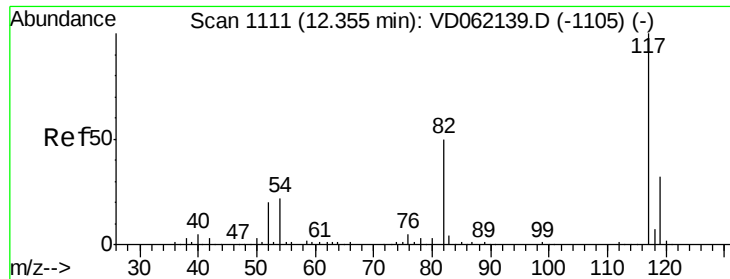
Tot Ion:	97	Resp:	198
Ion	Ratio	Lower	Upper
97	100		
83	0.0	65.7	98.5#
85	0.0	45.6	68.4#
99	0.0	48.4	72.6#



#62
 4-Bromofluorobenzene
 Concen: 37.148 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062418.D
 Acq: 16 May 2019 15:32

Tgt Ion:	95	Resp:	5952
Ion	Ratio	Lower	Upper
95	100		
174	98.7	0.0	181.8
176	104.7	0.0	174.4

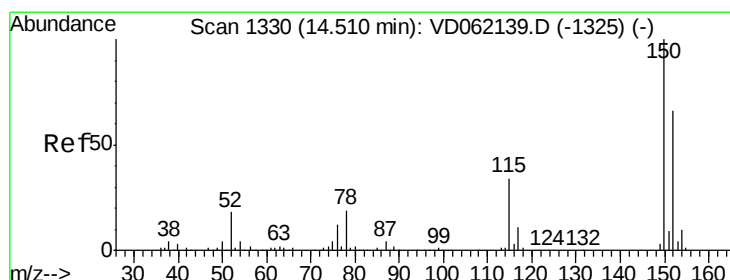
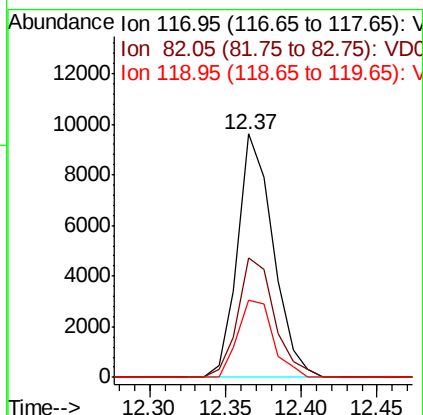
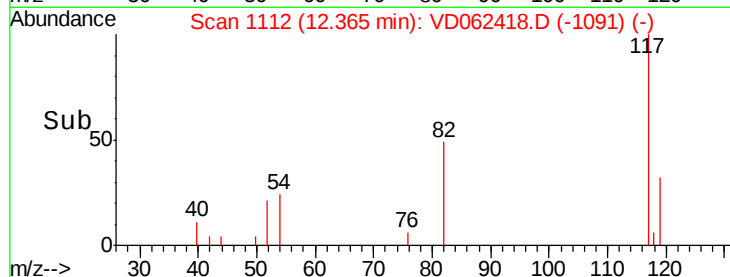
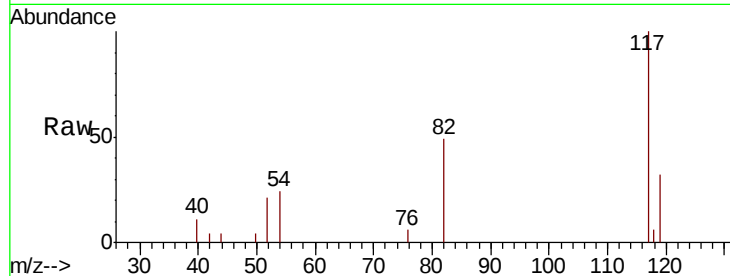




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062418.D
Acq: 16 May 2019 15:32

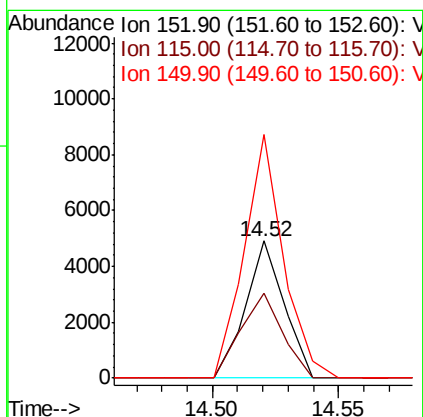
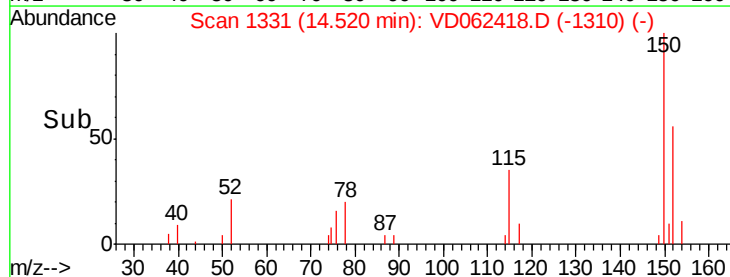
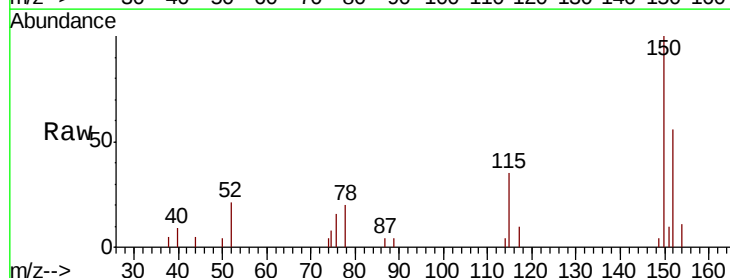
Instrument :
MSVOA_D
ClientSampleId :
S-3RE

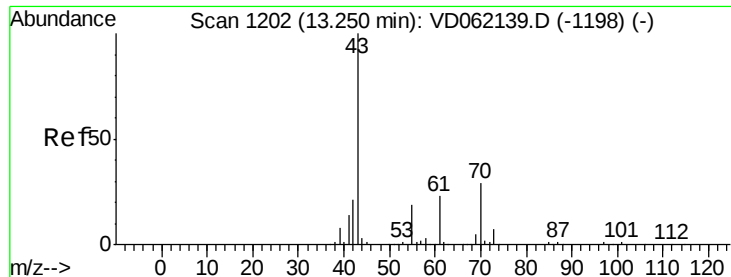
Tot Ion:117 Resp: 15722
Ion Ratio Lower Upper
117 100
82 49.3 36.2 54.2
119 31.8 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD062418.D
Acq: 16 May 2019 15:32

Tgt Ion:152 Resp: 5180
Ion Ratio Lower Upper
152 100
115 61.8 30.9 92.7
150 177.3 0.0 314.8





#74

N-amvl acetate

Concen: 2.936 ug/l

RT: 13.01 min Scan# 1178

Delta R.T. -0.24 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

S-3RE

Tot Ion: 43 Resp: 239

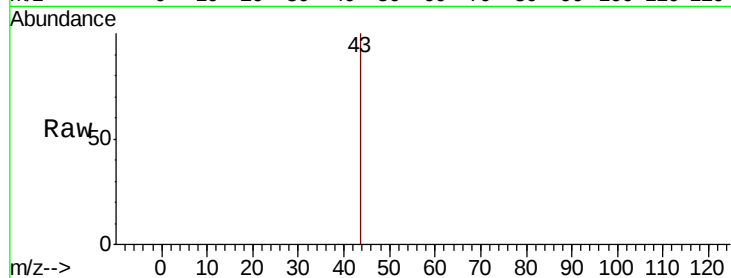
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

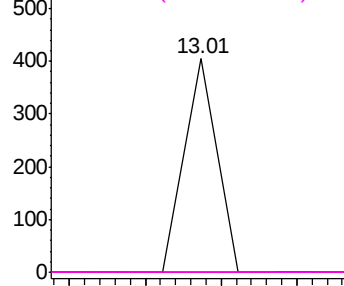


Abundance Ion 42.95 (42.65 to 43.65): VDC

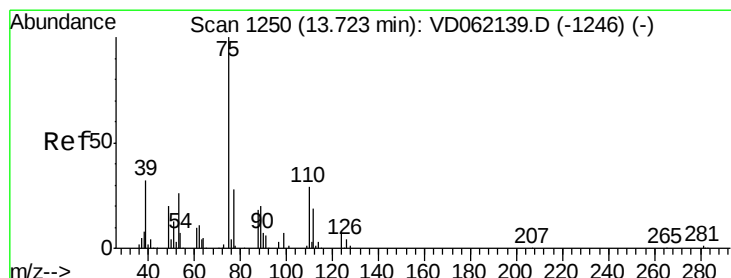
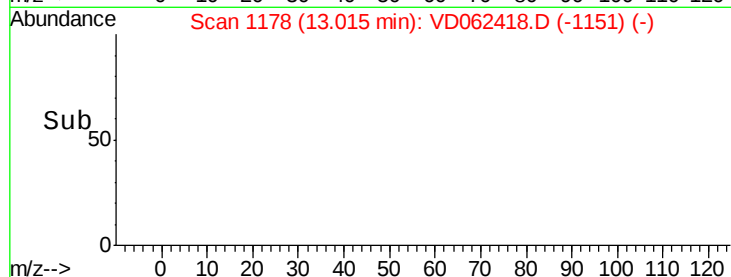
Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time--> 12.98 13.00 13.02 13.04



#76

1,2,3-Trichloropropane

Concen: 43.080 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062418.D

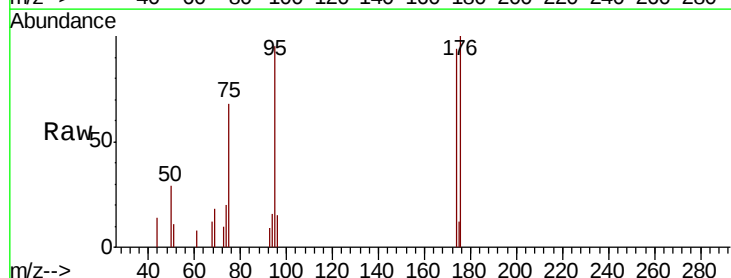
Acq: 16 May 2019 15:32

Tgt Ion: 75 Resp: 2652

Ion Ratio Lower Upper

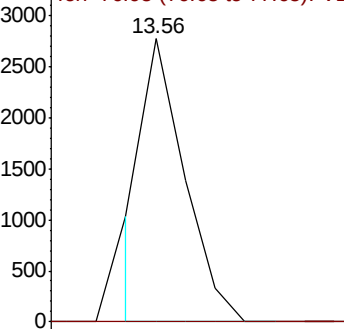
75 100

77 0.0 16.4 49.4#

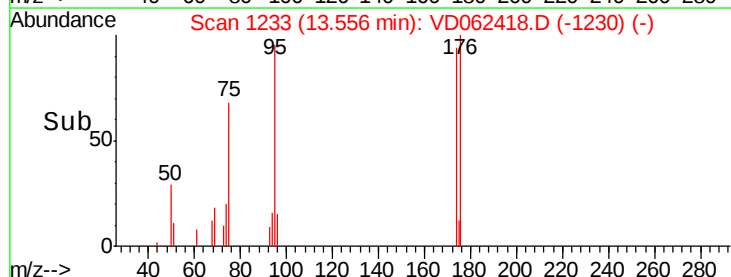


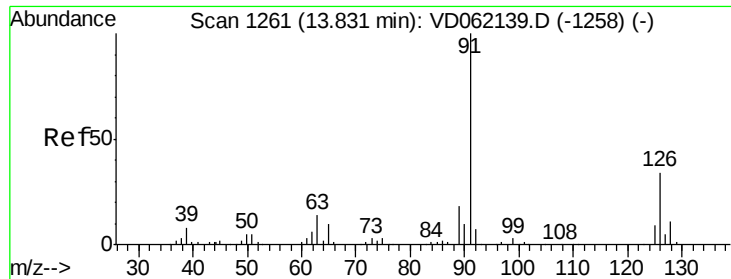
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



Time--> 13.55 13.60





#79

2-Chlorotoluene

Concen: 1.009 ug/l

RT: 13.78 min Scan# 1256

Delta R.T. -0.05 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

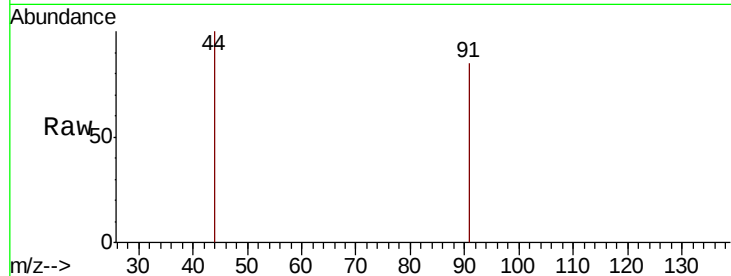
S-3RE

Tot Ion: 91 Resp: 214

Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC

13.78

400

300

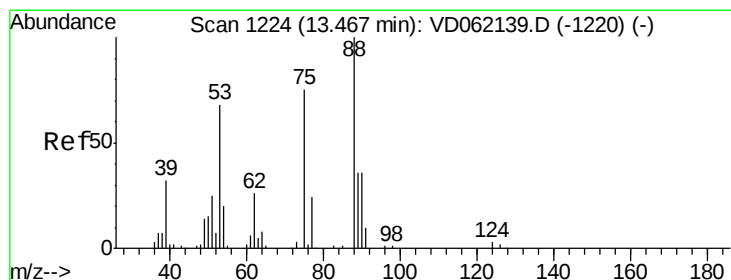
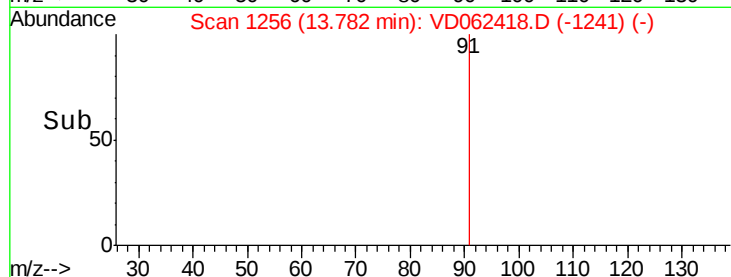
200

100

0

13.76 13.78 13.80

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 187.643 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

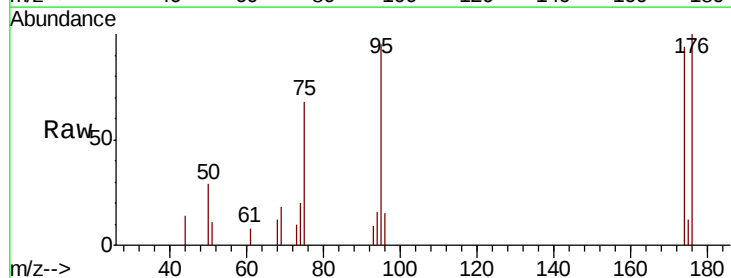
Tgt Ion: 75 Resp: 3261

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

3000

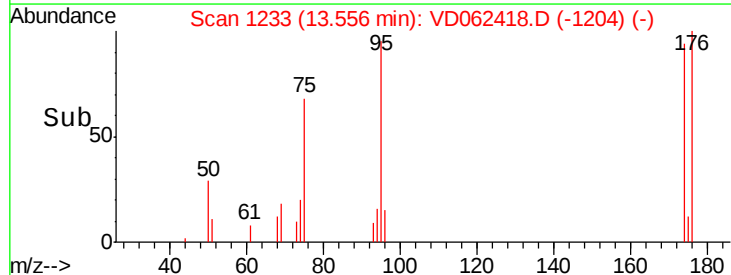
2000

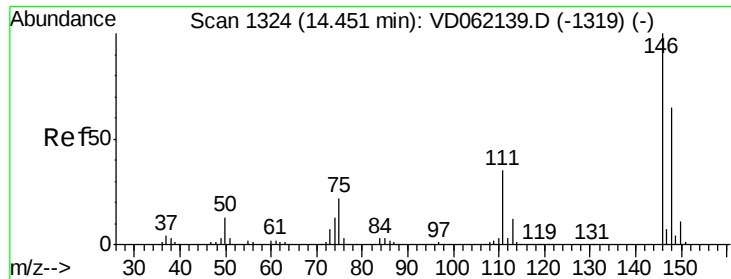
1000

0

13.50 13.55 13.60

Time-->

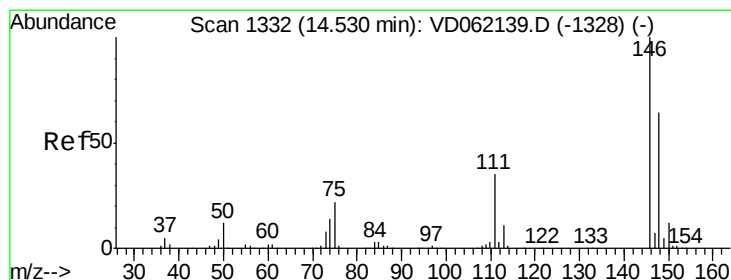
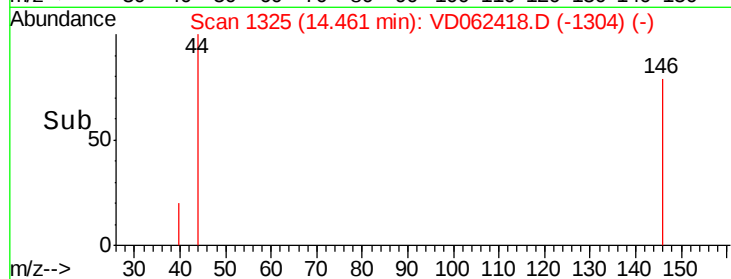
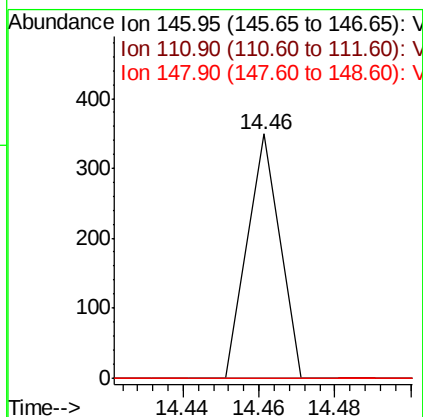
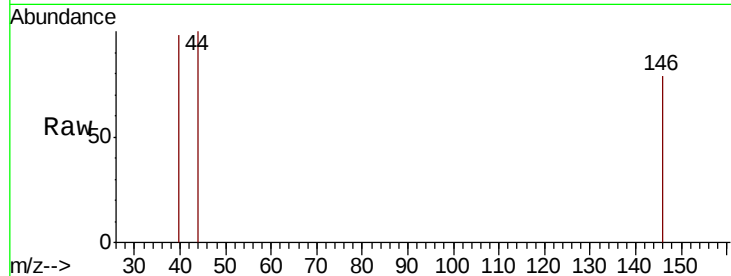




#87
 1,3-Dichlorobenzene
 Concen: 1.297 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062418.D
 Acq: 16 May 2019 15:32

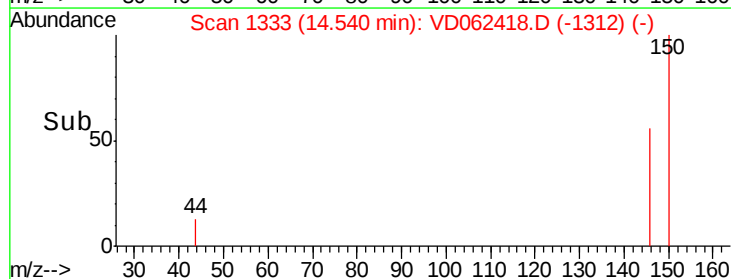
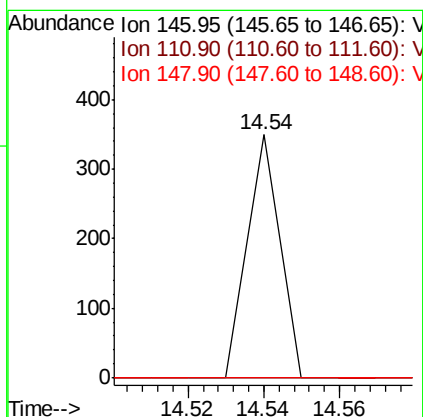
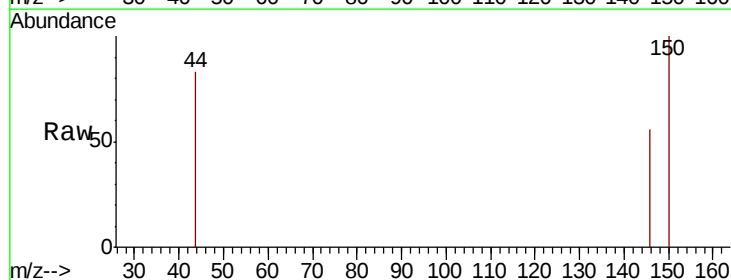
Instrument :
 MSVOA_D
 ClientSampleId :
 S-3RE

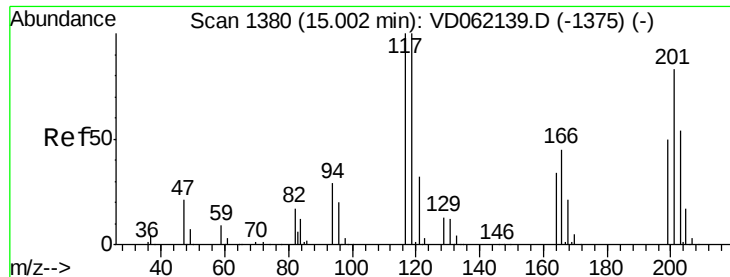
Tot Ion:146 Resp: 206
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 0.0 31.8 95.4#



#88
 1,4-Dichlorobenzene
 Concen: 1.327 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062418.D
 Acq: 16 May 2019 15:32

Tgt Ion:146 Resp: 207
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 0.0 32.0 96.2#





#90

Hexachloroethane

Concen: 2.491 ug/l

RT: 15.14 min Scan# 1394

Delta R.T. 0.14 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

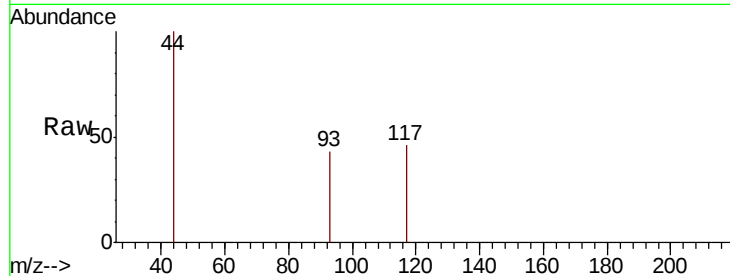
S-3RE

Tot Ion:117 Resp: 195

Ion Ratio Lower Upper

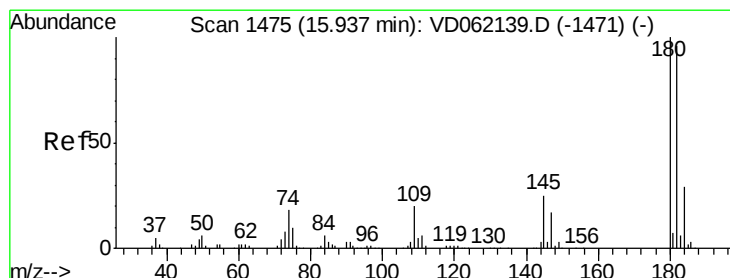
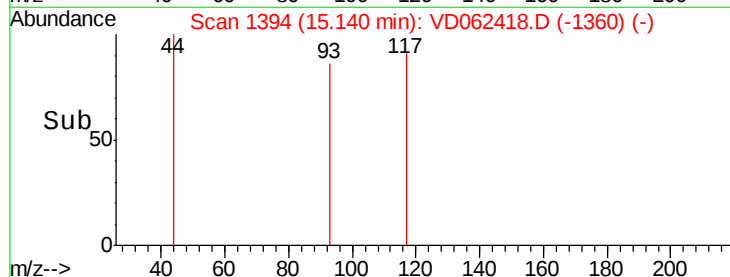
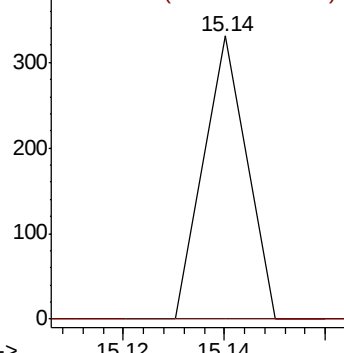
117 100

201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#93

1,2,4-Trichlorobenzene

Concen: 2.049 ug/l

RT: 15.95 min Scan# 1476

Delta R.T. 0.01 min

Lab File: VD062418.D

Acq: 16 May 2019 15:32

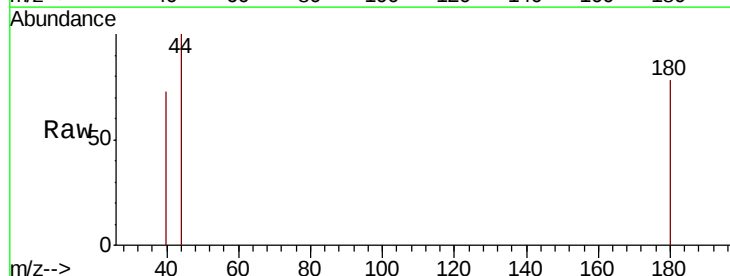
Tgt Ion:180 Resp: 195

Ion Ratio Lower Upper

180 100

182 0.0 49.3 147.8#

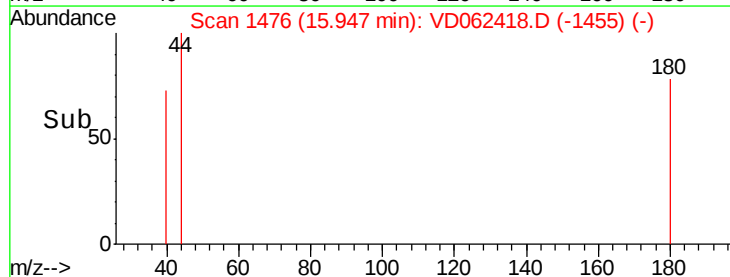
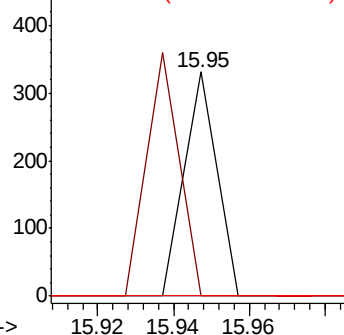
145 0.0 16.2 48.6#

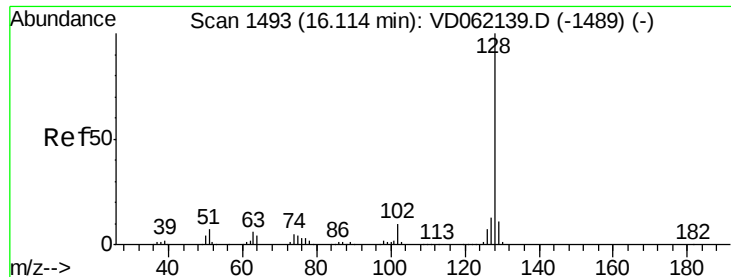


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95
 Naphthalene
 Concen: 5.027 ug/l
 RT: 16.12 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062418.D
 Acq: 16 May 2019 15:32

Instrument :
 MSVOA_D
 ClientSampleId :
 S-3RE

Tot Ion:128 Resp: 668
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.8 13.2#

