

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052119\
 Data File : VD062483.D
 Acq On : 21 May 2019 16:10
 Operator : VA/AP
 Sample : K2951-09RE
 Misc : 8.59g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 22 01:44:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

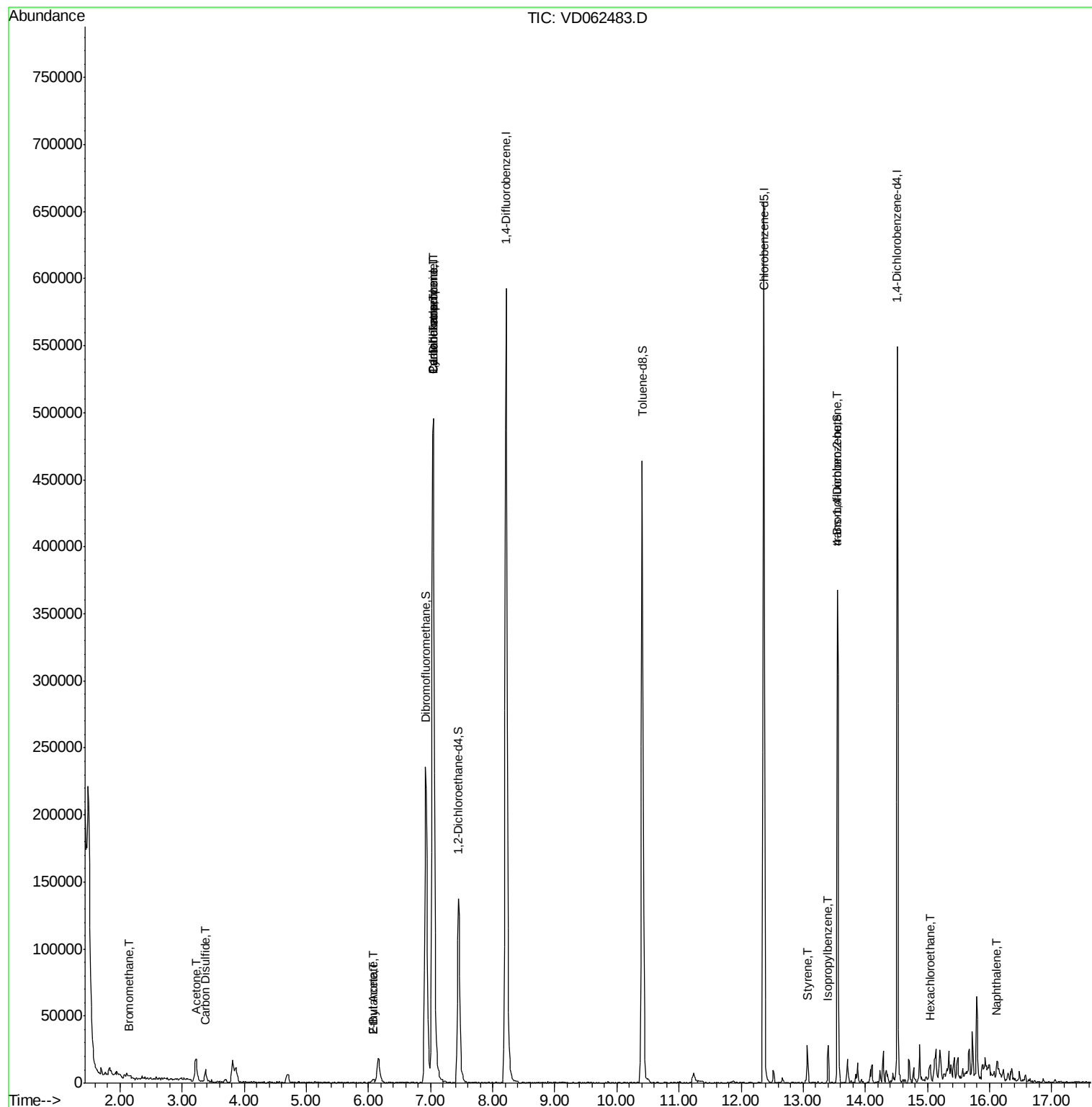
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	498738	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	635086	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	377965	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	110385	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	158218	29.64	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	59.28%	
35) Dibromofluoromethane	6.92	113	211009	36.83	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	73.66%	
50) Toluene-d8	10.41	98	382481	30.51	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	61.02%	
62) 4-Bromofluorobenzene	13.55	95	106872	19.49	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	38.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.57	85	204	Below Cal	#	42
5) Bromomethane	2.14	94	2001	1.275	ug/l #	12
16) Acetone	3.23	43	36546	38.201	ug/l #	76
17) Carbon Disulfide	3.38	76	16210	1.449	ug/l #	90
20) Methylene Chloride	3.81	84	9908	Below Cal	#	81
25) 2-Butanone	6.07	43	7684	7.679	ug/l	100
31) Cyclohexane	7.04	56	10259	2.035	ug/l #	30
36) 1,1-Dichloropropene	7.05	75	37085	6.108	ug/l #	46
37) Ethyl Acetate	6.07	43	7684	3.258	ug/l #	64
38) Carbon Tetrachloride	7.04	117	50749	5.624	ug/l #	15
70) Styrene	13.07	104	11449	1.587	ug/l #	92
73) Isopropylbenzene	13.40	105	15989	2.298	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.55	75	47815	130.395	ug/l #	16
90) Hexachloroethane	15.04	117	3822	2.190	ug/l #	20
95) Naphthalene	16.12	128	10278	3.223	ug/l #	93

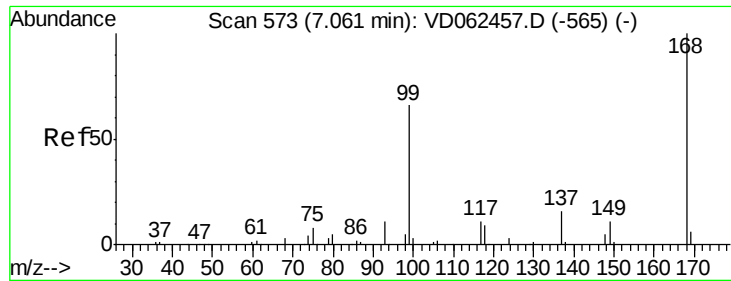
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 21 03:32:39 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

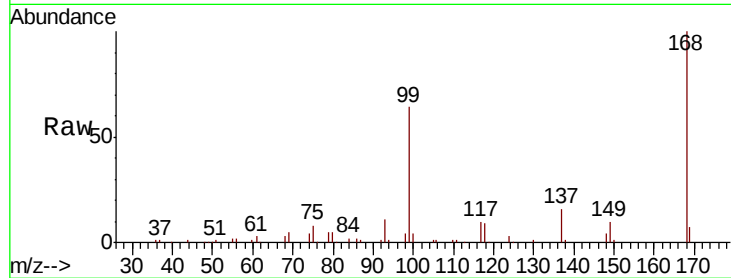
ClientSampleId :

Tot Ion:168 Resp: 498738

Ion Ratio Lower Upper

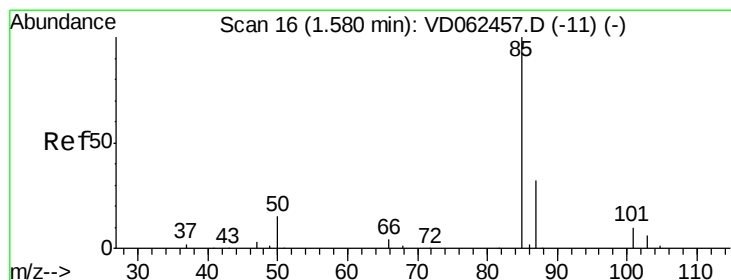
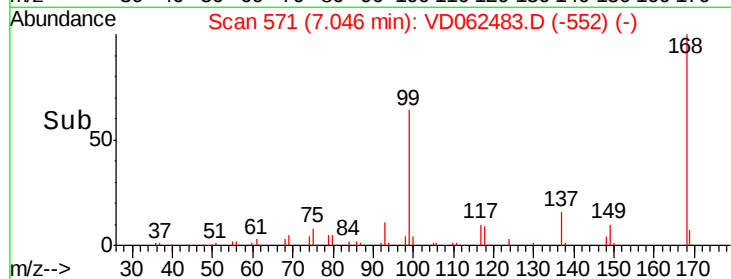
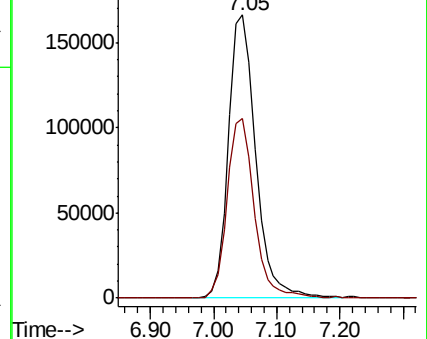
168 100

99 63.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD062483.D

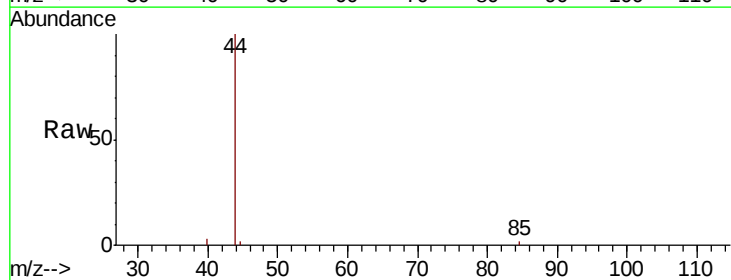
Acq: 21 May 2019 16:10

Tgt Ion: 85 Resp: 204

Ion Ratio Lower Upper

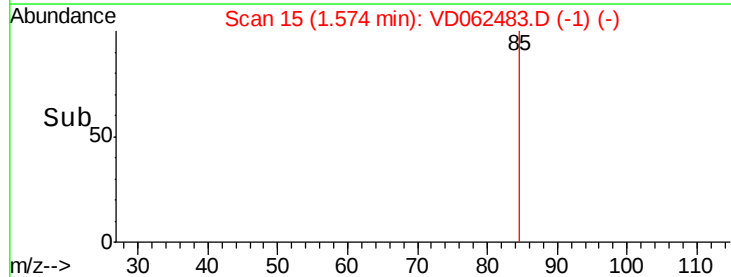
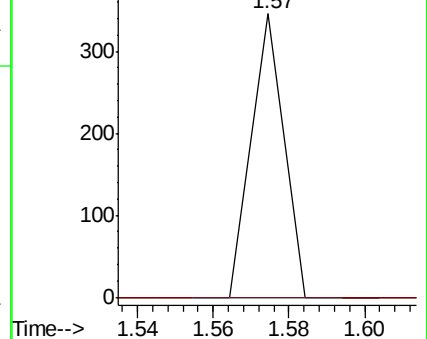
85 100

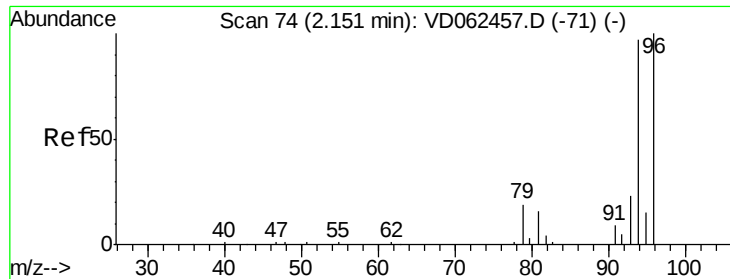
87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

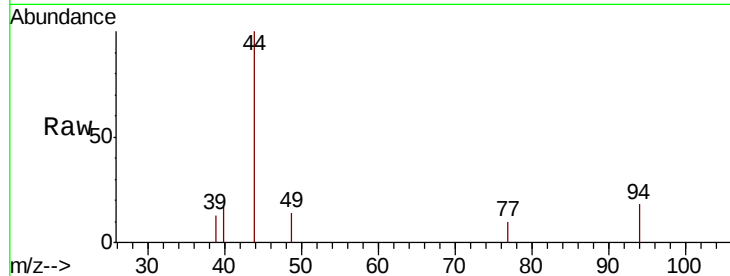




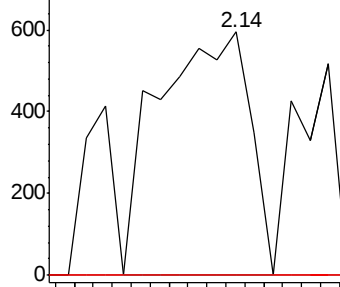
#5
Bromomethane
Concen: 1.275 ug/l
RT: 2.14 min Scan# 72
Delta R.T. -0.02 min
Lab File: VD062483.D
Acq: 21 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleID :

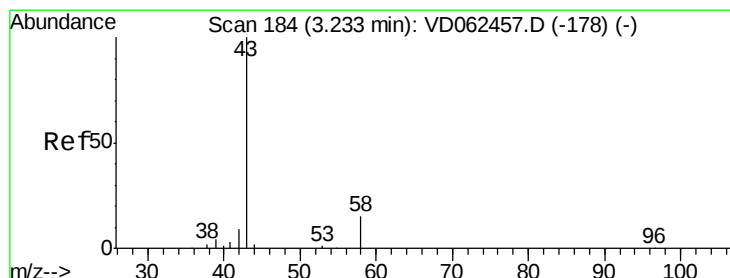
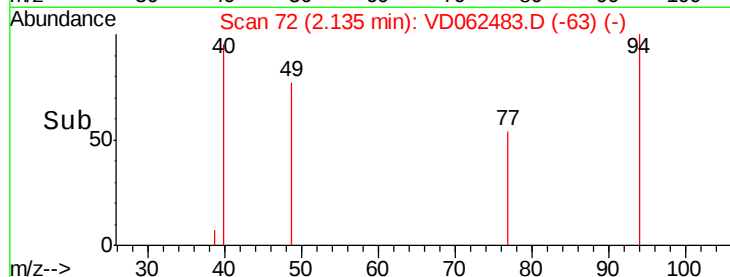
Tot Ion: 94 Resp: 2001
Ion Ratio Lower Upper
94 100
96 0.0 76.6 115.0#
93 0.0 18.5 27.7#



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

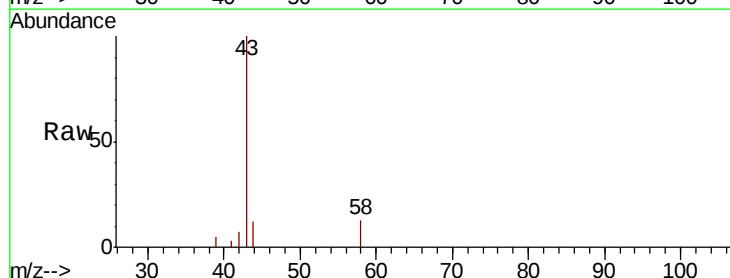


Time-->

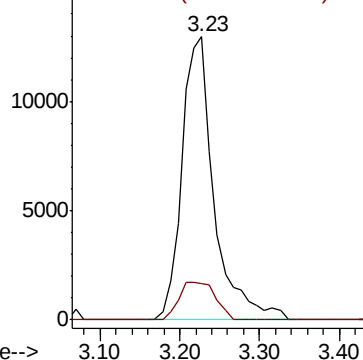


#16
Acetone
Concen: 38.201 ug/l
RT: 3.23 min Scan# 183
Delta R.T. -0.01 min
Lab File: VD062483.D
Acq: 21 May 2019 16:10

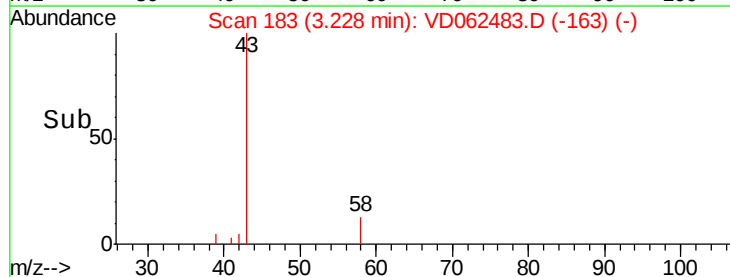
Tgt Ion: 43 Resp: 36546
Ion Ratio Lower Upper
43 100
58 12.9 19.9 29.9#

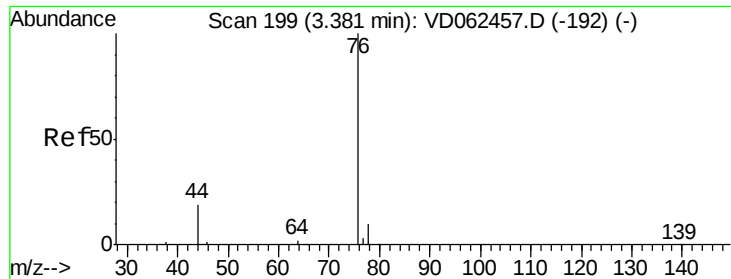


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



Time-->





#17

Carbon Disulfide

Concen: 1.449 ug/l

RT: 3.38 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

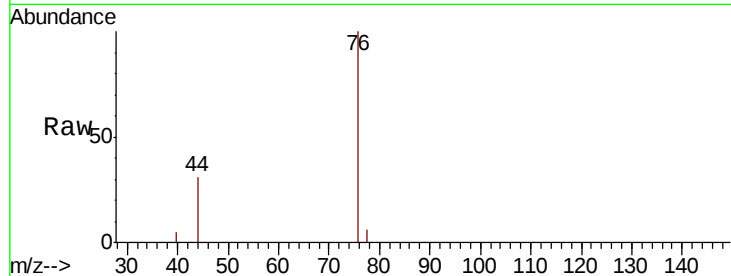
ClientSampleId :

Tot Ion: 76 Resp: 16210

Ion Ratio Lower Upper

76 100

78 5.6 7.2 10.8#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.38

8000

6000

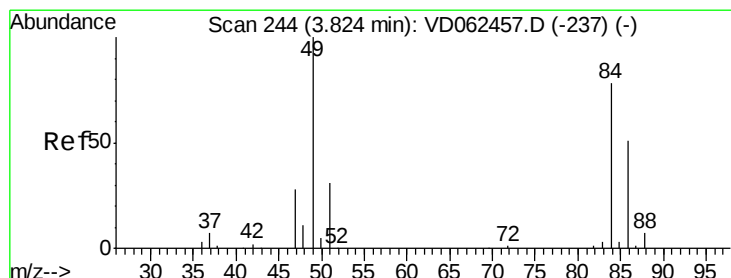
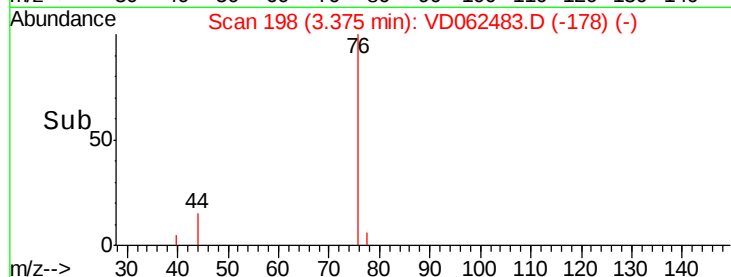
4000

2000

0

Time-->

3.30 3.35 3.40 3.45



#20

Methylene Chloride

Concen: Below Cal

RT: 3.81 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Tgt Ion: 84 Resp: 9908

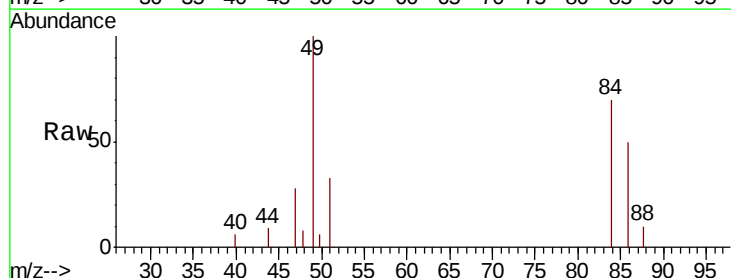
Ion Ratio Lower Upper

84 100

49 142.6 94.0 141.0#

51 47.0 29.0 43.4#

86 71.2 49.8 74.6



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

8000

6000

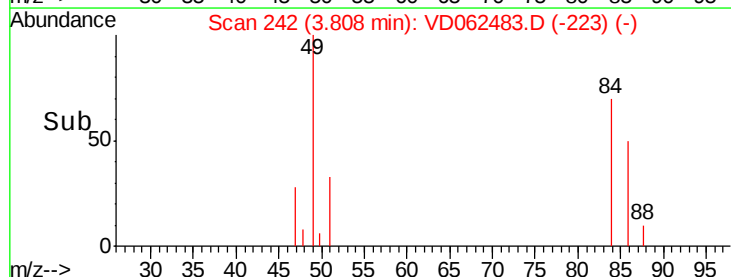
4000

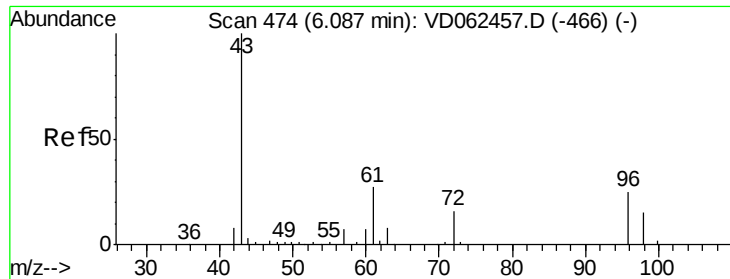
2000

0

Time-->

3.75 3.80 3.85 3.90





#25

2-Butanone

Concen: 7.679 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

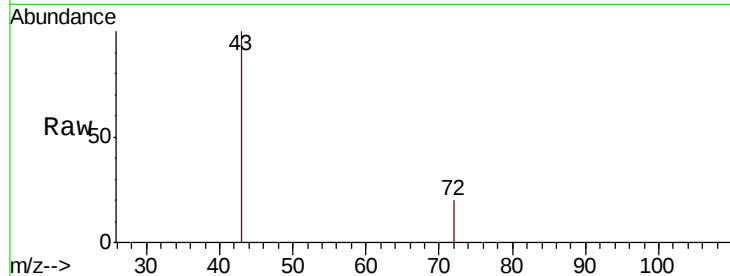
ClientSampled :

Tot Ion: 43 Resp: 7684

Ion Ratio Lower Upper

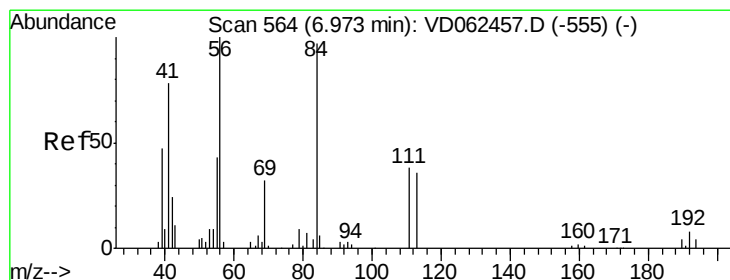
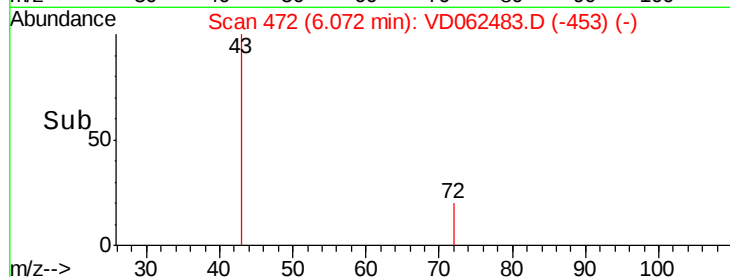
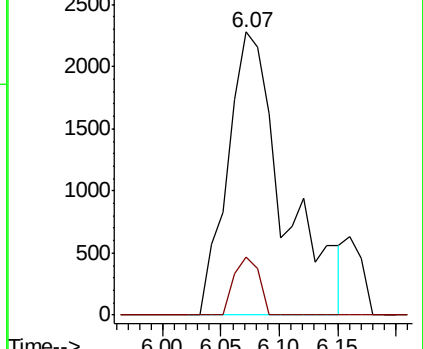
43 100

72 20.3 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 2.035 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.06 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

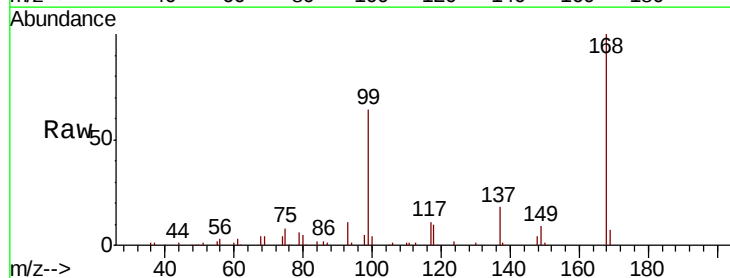
Tgt Ion: 56 Resp: 10259

Ion Ratio Lower Upper

56 100

69 148.6 25.8 38.6#

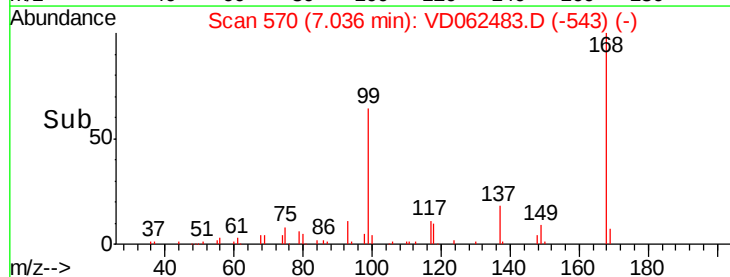
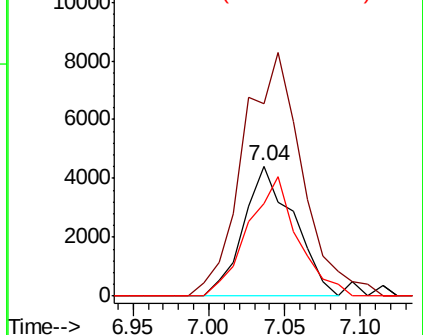
84 71.2 72.2 108.4#

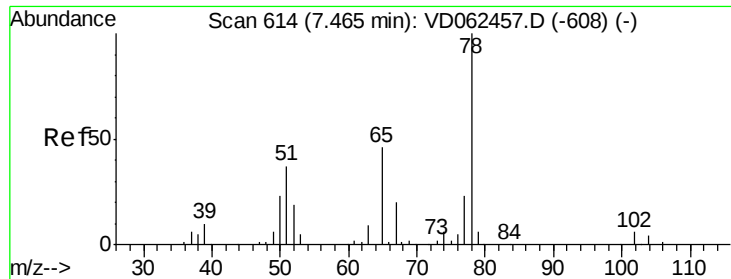


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 29.636 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

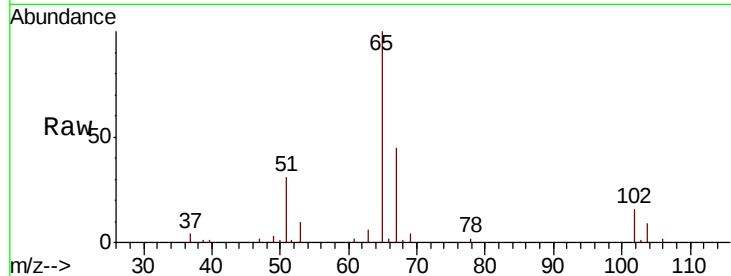
ClientSampleId :

Tot Ion: 65 Resp: 158218

Ion Ratio Lower Upper

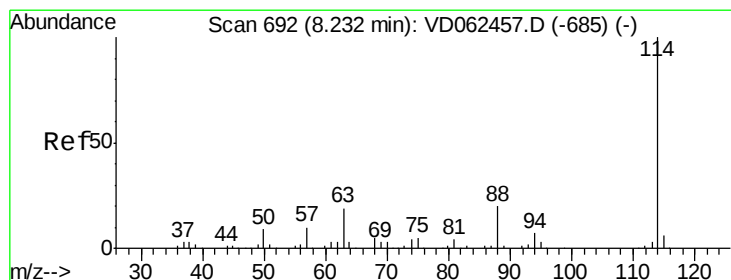
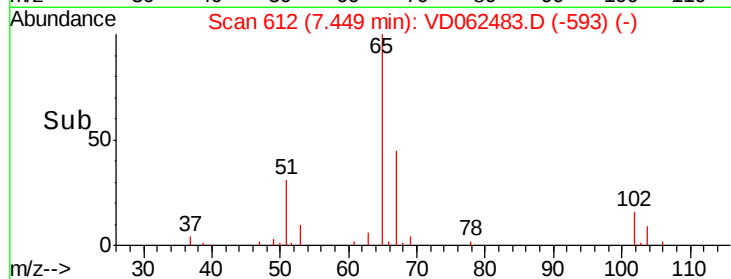
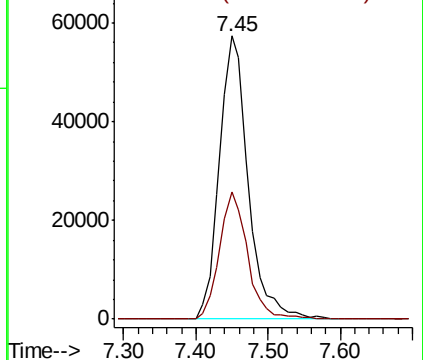
65 100

67 44.8 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# 690

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

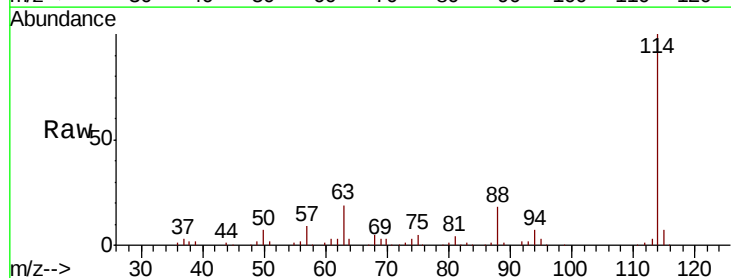
Tgt Ion: 114 Resp: 635086

Ion Ratio Lower Upper

114 100

63 19.0 0.0 32.4

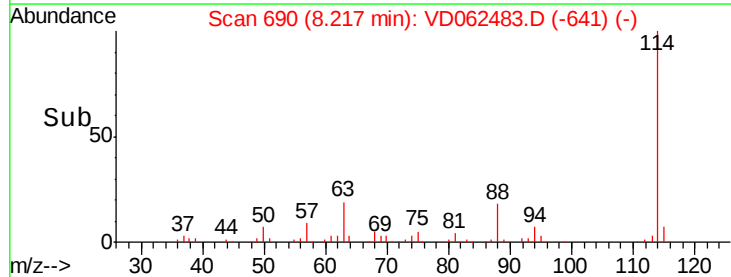
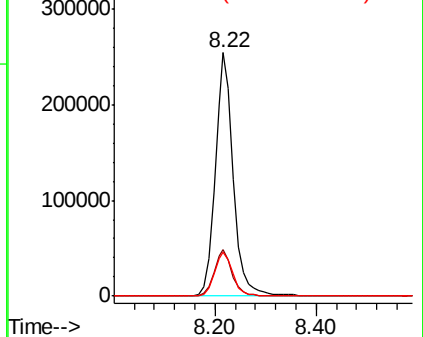
88 18.3 0.0 33.6

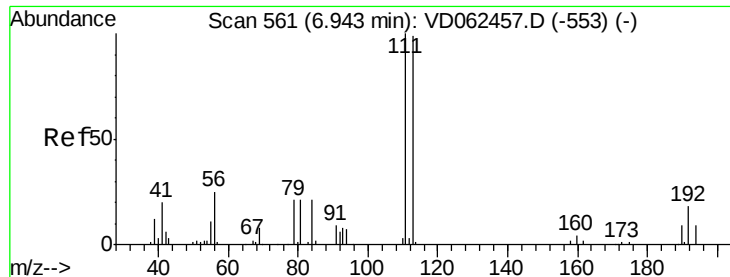


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

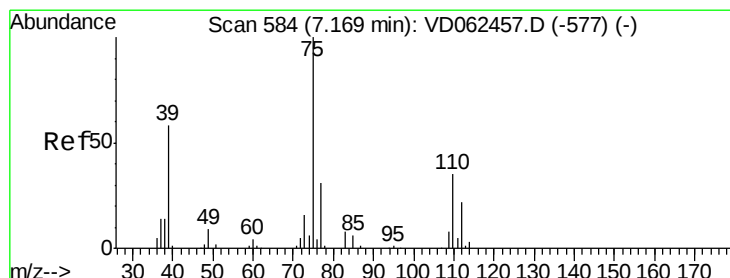
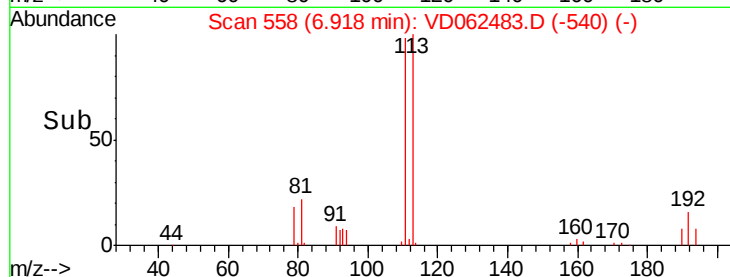
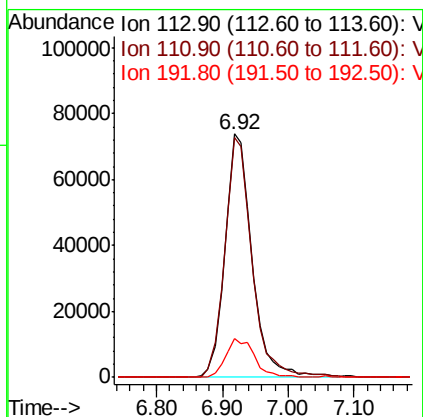
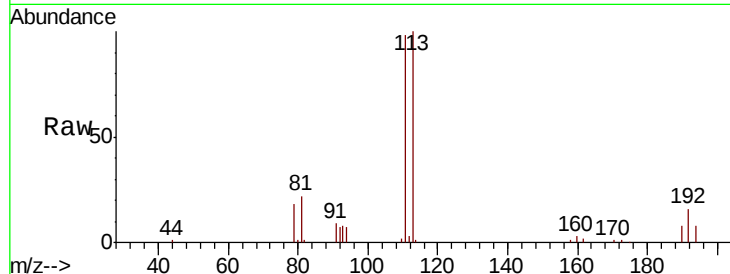




#35
 Dibromofluoromethane
 Concen: 36.830 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.03 min
 Lab File: VD062483.D
 Acq: 21 May 2019 16:10

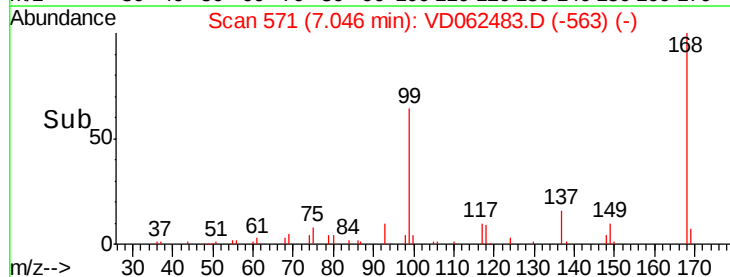
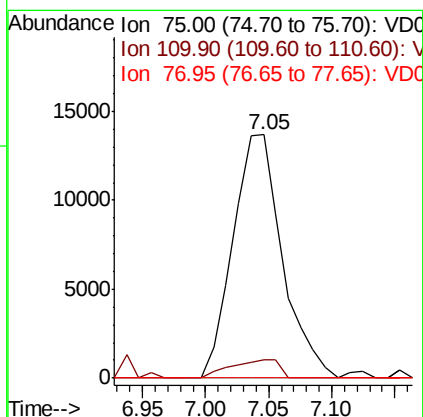
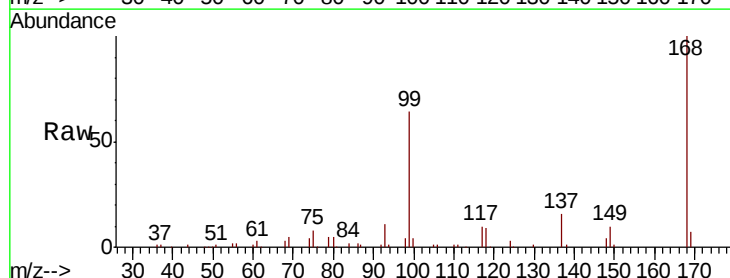
Instrument :
 MSVOA_D
 ClientSampleId :

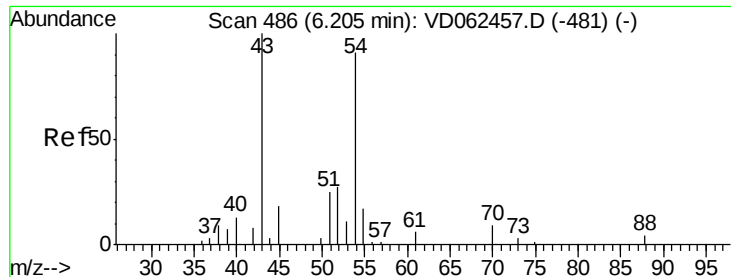
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.4	78.5	117.7
192	15.9	13.0	19.4



#36
 1,1-Dichloropropene
 Concen: 6.108 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD062483.D
 Acq: 21 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	19.1	57.1#
77	0.0	25.6	38.4#





#37

Ethyl Acetate

Concen: 3.258 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.13 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

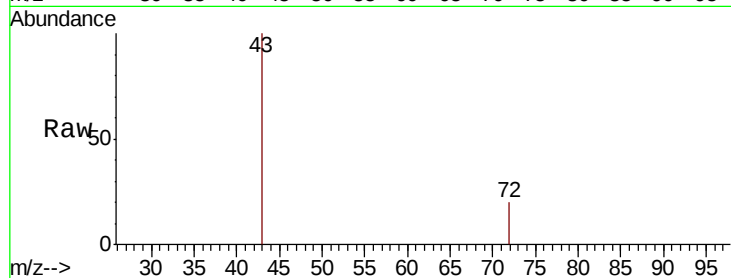
Tot Ion: 43 Resp: 7684

Ion Ratio Lower Upper

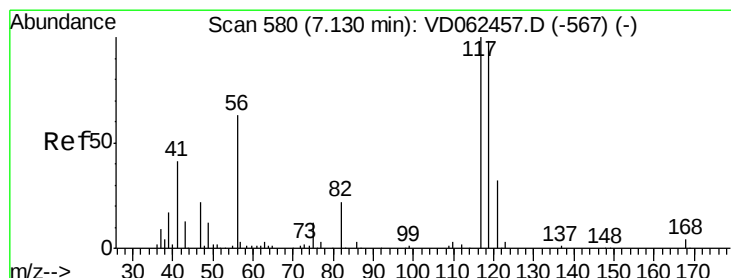
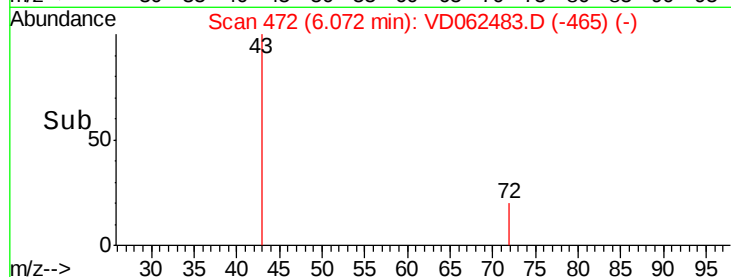
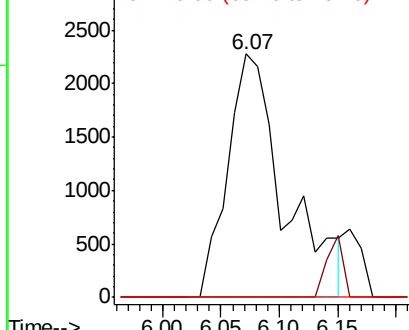
43 100

61 0.0 14.7 22.1#

70 0.0 7.8 11.6#



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: 5.624 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

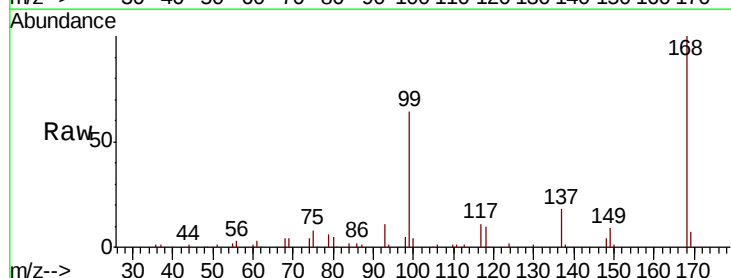
Tgt Ion: 117 Resp: 50749

Ion Ratio Lower Upper

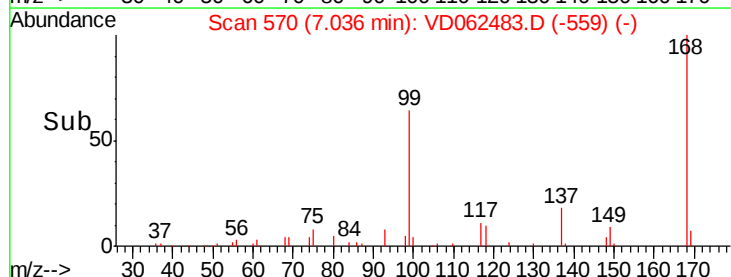
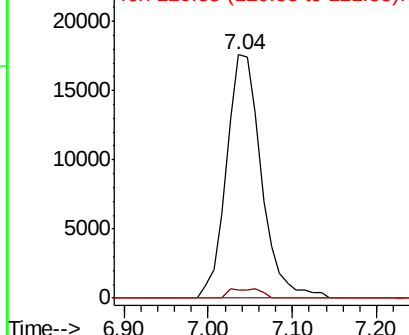
117 100

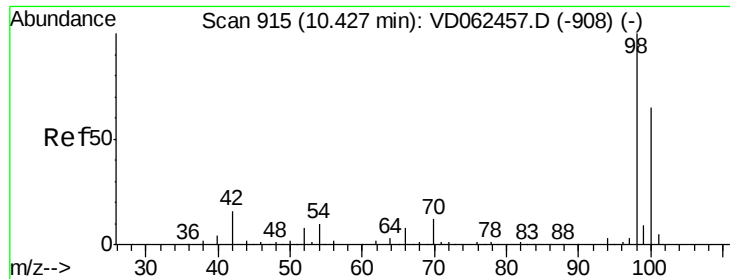
119 3.5 75.8 113.8#

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





#50

Toluene-d8

Concen: 30.506 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

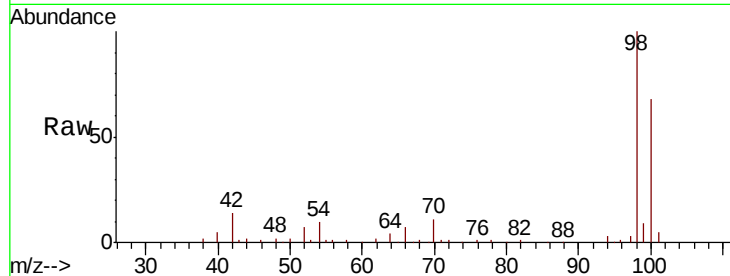
ClientSampleId :

Tot Ion: 98 Resp: 382481

Ion Ratio Lower Upper

98 100

100 68.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

200000

150000

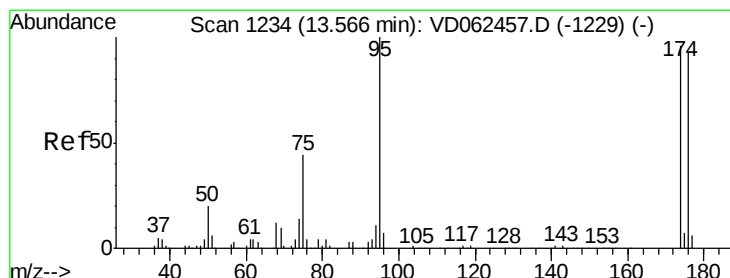
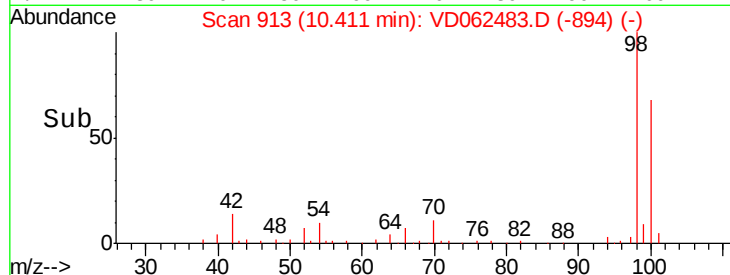
100000

50000

0

10.30 10.40 10.50 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: 19.486 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

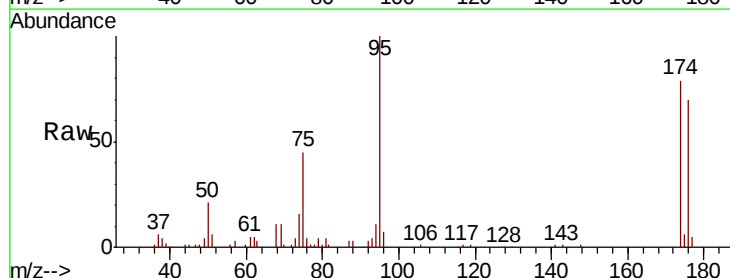
Tgt Ion: 95 Resp: 106872

Ion Ratio Lower Upper

95 100

174 79.0 0.0 181.8

176 70.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

100000

80000

60000

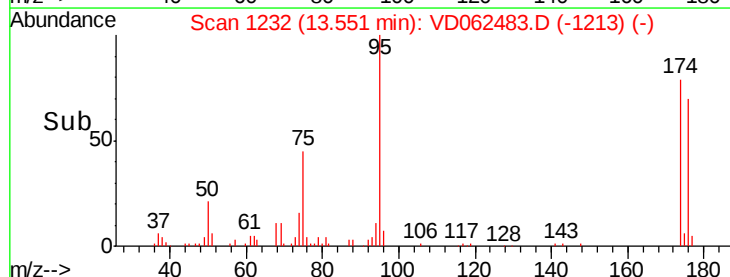
40000

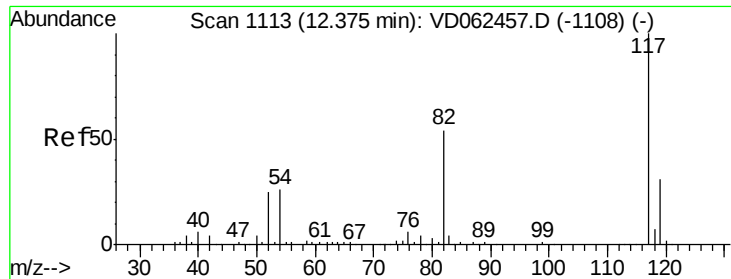
20000

0

13.50 13.55 13.60 13.65

Time-->

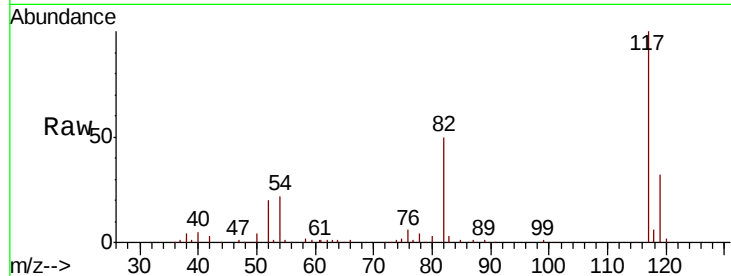




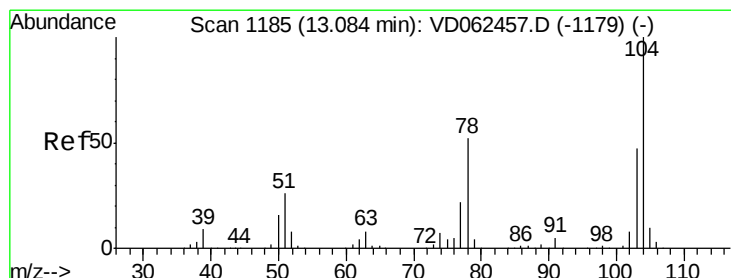
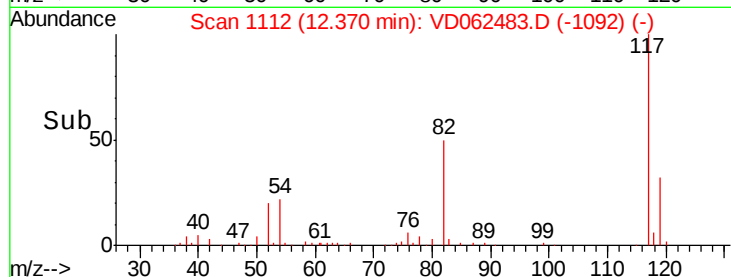
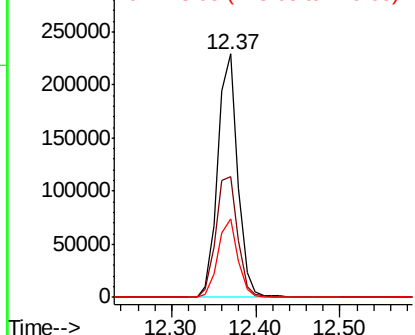
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062483.D
Acq: 21 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 377965
Ion Ratio Lower Upper
117 100
82 49.8 36.2 54.2
119 32.3 26.2 39.4

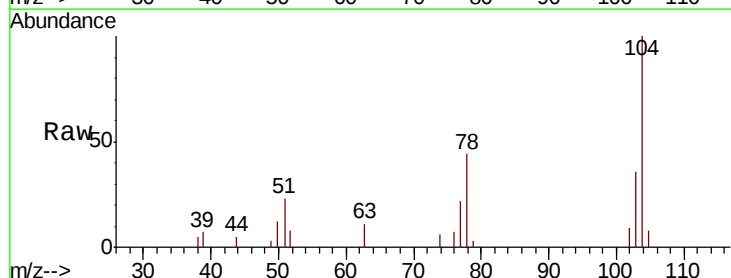


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

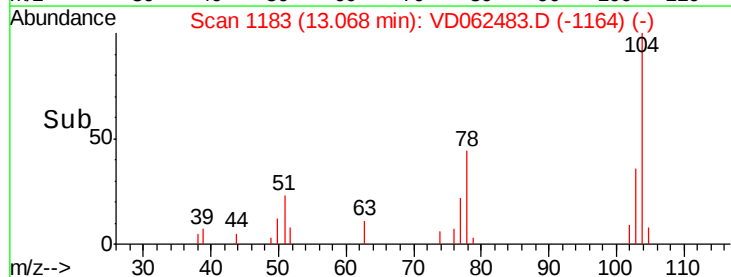
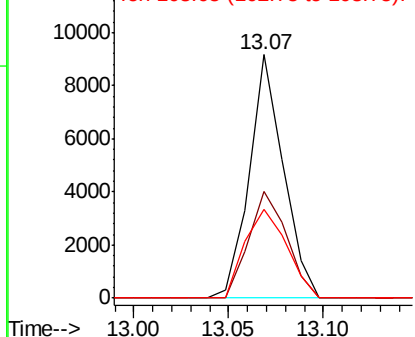


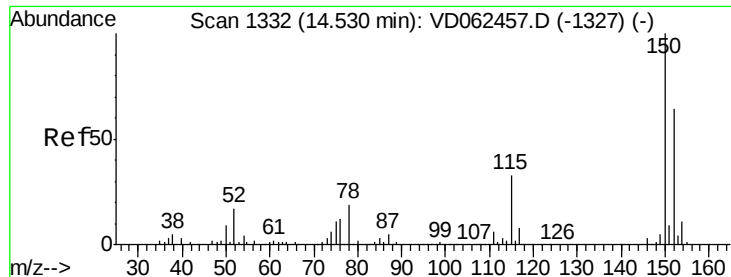
#70
Styrene
Concen: 1.587 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VD062483.D
Acq: 21 May 2019 16:10

Tgt Ion:104 Resp: 11449
Ion Ratio Lower Upper
104 100
78 44.0 35.4 53.2
103 36.3 37.5 56.3#



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

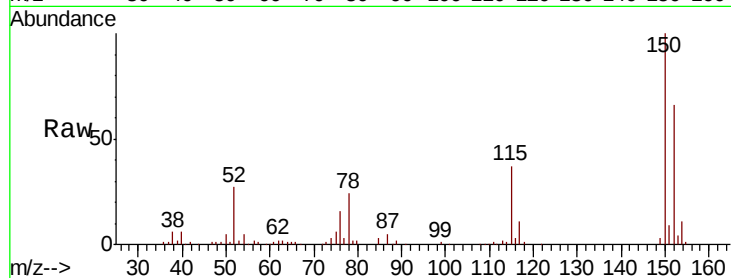
Tot Ion:152 Resp: 110385

Ion Ratio Lower Upper

152 100

115 56.2 30.9 92.7

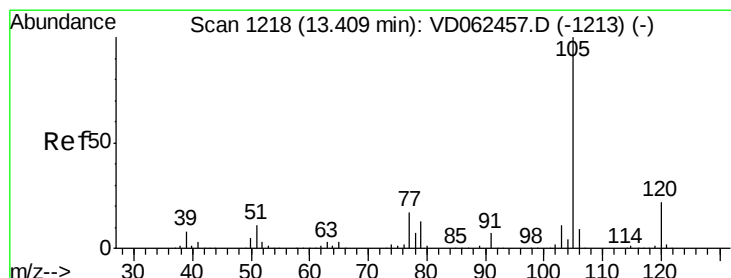
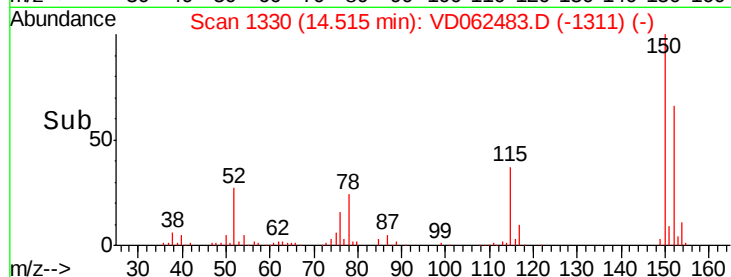
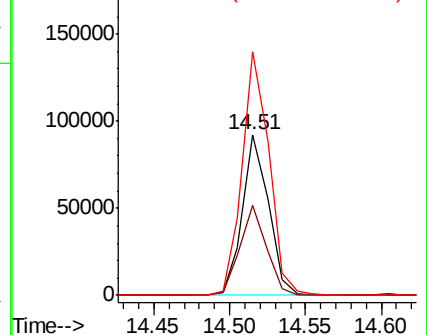
150 151.7 0.0 314.8



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: 2.298 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD062483.D

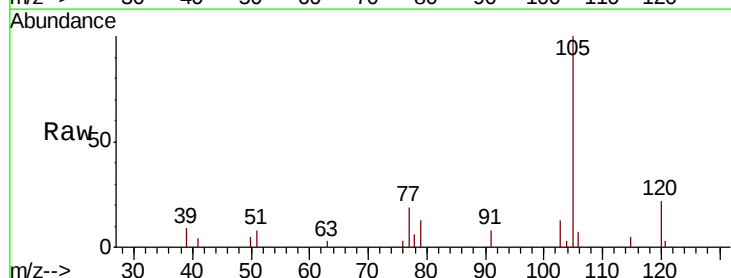
Acq: 21 May 2019 16:10

Tgt Ion:105 Resp: 15989

Ion Ratio Lower Upper

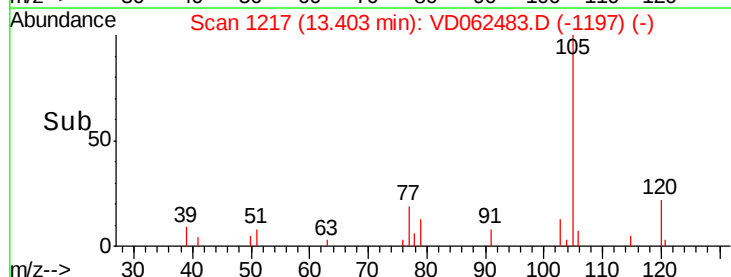
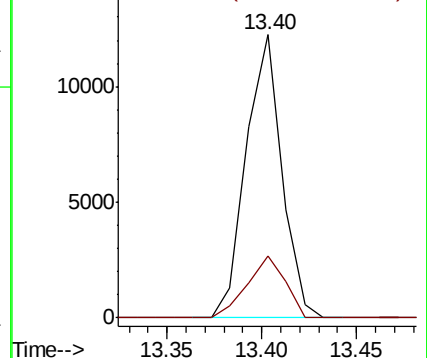
105 100

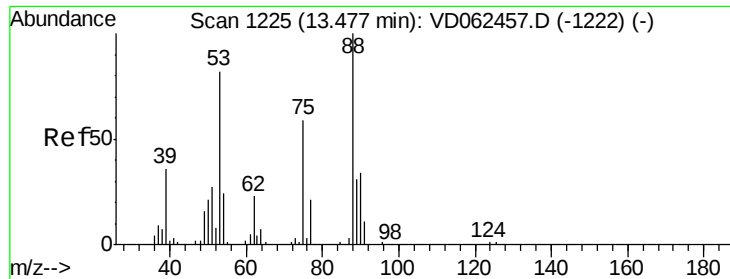
120 22.0 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 130.395 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062483.D

Acq: 21 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

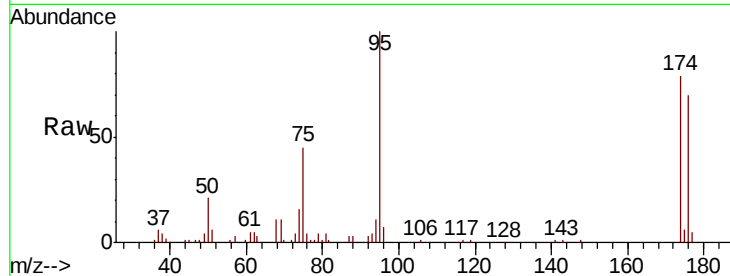
Tot Ion: 75 Resp: 47815

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

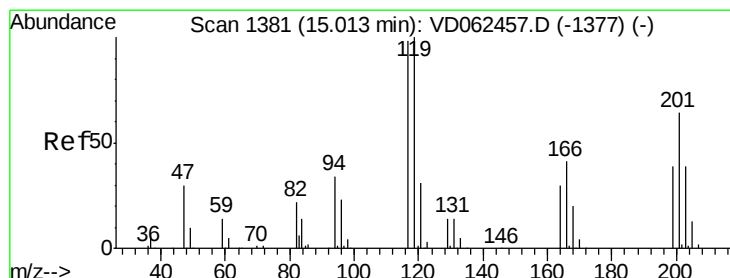
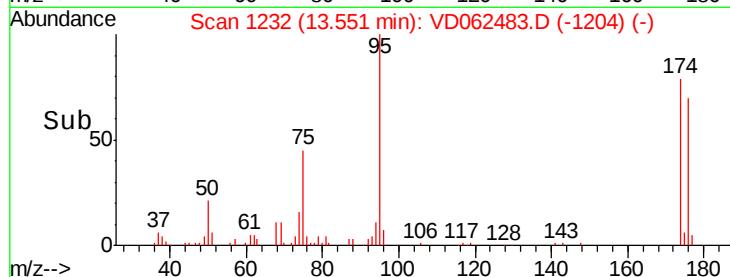
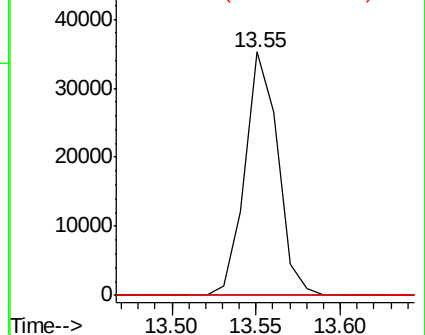
89 0.0 35.0 52.6#



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



#90

Hexachloroethane

Concen: 2.190 ug/l

RT: 15.04 min Scan# 1383

Delta R.T. 0.02 min

Lab File: VD062483.D

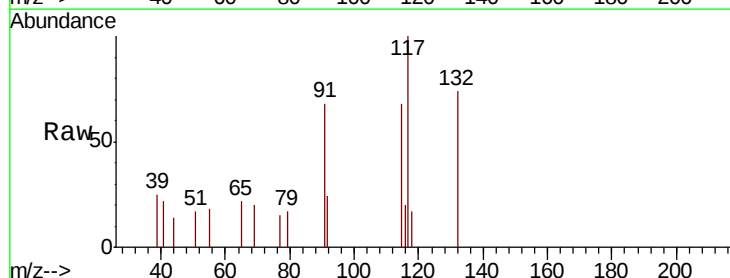
Acq: 21 May 2019 16:10

Tgt Ion: 117 Resp: 3822

Ion Ratio Lower Upper

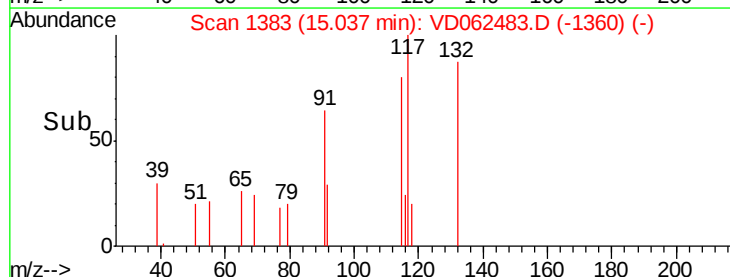
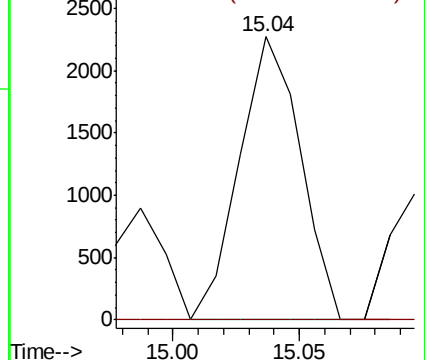
117 100

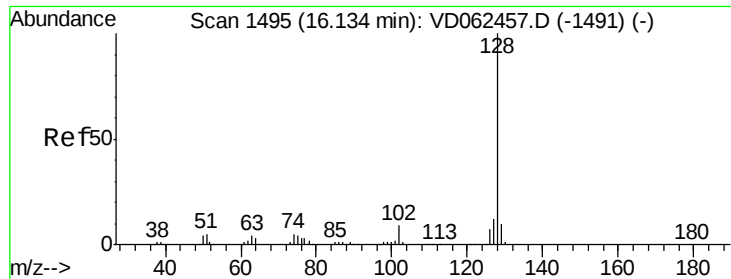
201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#95
 Naphthalene
 Concen: 3.223 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.02 min
 Lab File: VD062483.D
 Acq: 21 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.1	9.8	14.8#
129	12.9	8.8	13.2

