

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062719\
 Data File : VD062927.D
 Acq On : 27 Jun 2019 13:14
 Operator : VA/AP
 Sample : K3471-01
 Misc : 4.99g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 28 02:19:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	847108	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.19	114	1116375	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.35	117	808151	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.50	152	381066	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	373948	40.61	ug/l	-0.04
Spiked Amount			Recovery	=	81.22%	
35) Dibromofluoromethane	6.89	113	384383	40.83	ug/l	-0.04
Spiked Amount			Recovery	=	81.66%	
50) Toluene-d8	10.39	98	749180	36.57	ug/l	-0.03
Spiked Amount			Recovery	=	73.14%	
62) 4-Bromofluorobenzene	13.54	95	318647	34.20	ug/l	-0.02
Spiked Amount			Recovery	=	68.40%	

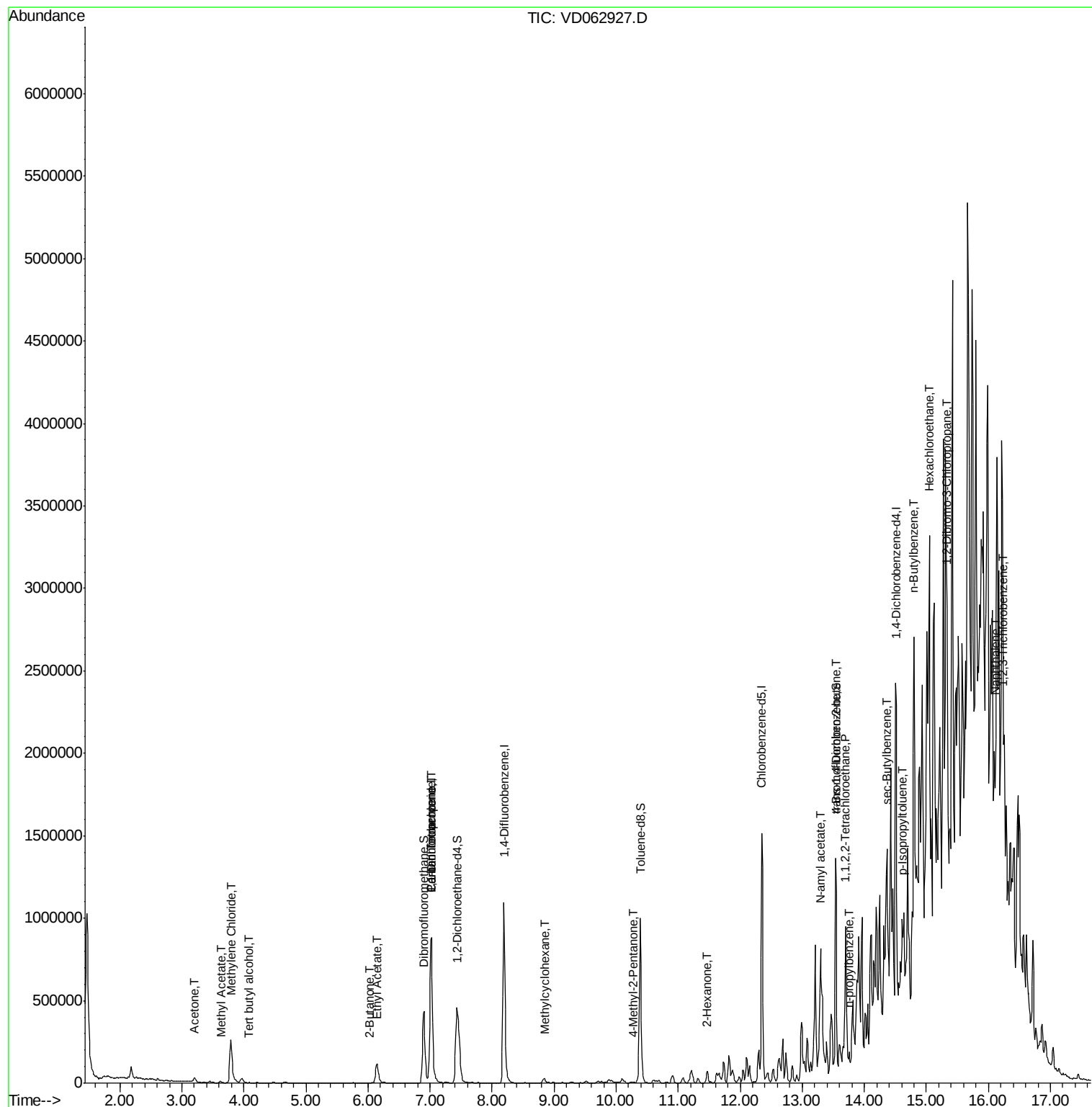
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	1346	3.210	ug/l #	77
16) Acetone	3.20	43	64853	28.534	ug/l	99
18) Methyl Acetate	3.62	43	13302	4.785	ug/l #	79
20) Methylene Chloride	3.79	84	165191	23.524	ug/l	97
25) 2-Butanone	6.04	43	3732	2.167	ug/l #	64
36) 1,1-Dichloropropene	7.02	75	70282	6.650	ug/l #	52
37) Ethyl Acetate	6.15	43	9569	1.078	ug/l #	1
38) Carbon Tetrachloride	7.01	117	91634	5.765	ug/l #	16
39) Methylcyclohexane	8.85	83	15437	1.659	ug/l #	74
51) 4-Methyl-2-Pentanone	10.28	43	9638	2.454	ug/l	98
59) 2-Hexanone	11.47	43	30575	10.929	ug/l #	36
74) N-amyl acetate	13.28	43	75862	12.785	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	13.70	83	47340	11.892	ug/l #	47
78) n-propylbenzene	13.76	91	34817	1.224	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.54	75	141574	122.793	ug/l #	4
85) sec-Butylbenzene	14.36	105	139311	5.603	ug/l	94
86) p-Isopropyltoluene	14.62	119	44732	1.967	ug/l	85
89) n-Butylbenzene	14.79	91	141269	6.636	ug/l	91
90) Hexachloroethane	15.05	117	64530	10.552	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	15.34	75	7720	9.936	ug/l #	29
95) Naphthalene	16.11	128	28817	2.611	ug/l #	6
96) 1,2,3-Trichlorobenzene	16.25	180	9813	1.622	ug/l #	1

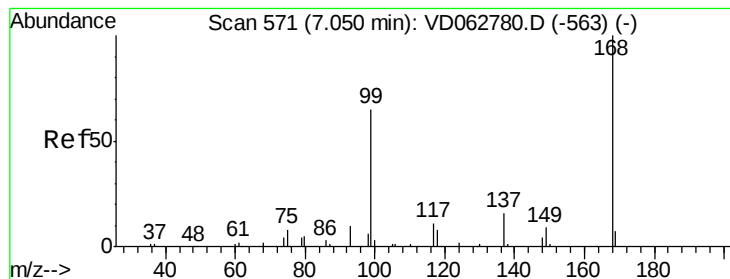
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.03 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

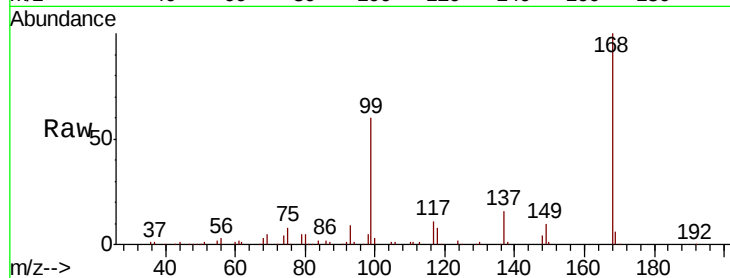
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 847108

Ion Ratio Lower Upper

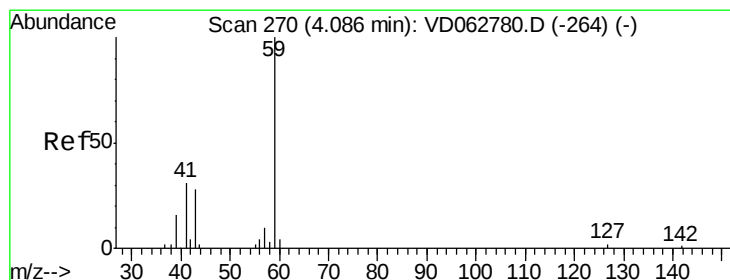
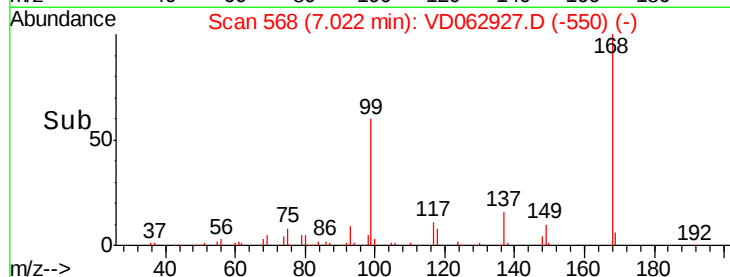
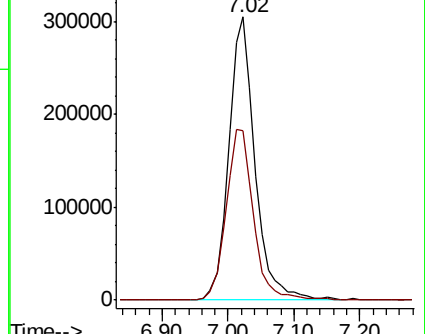
168 100

99 59.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 3.210 ug/l

RT: 4.08 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD062927.D

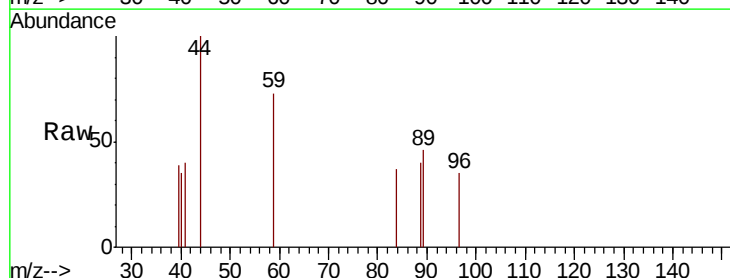
Acq: 27 Jun 2019 13:14

Tgt Ion: 59 Resp: 1346

Ion Ratio Lower Upper

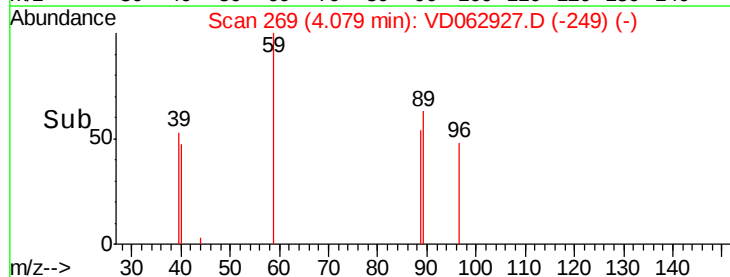
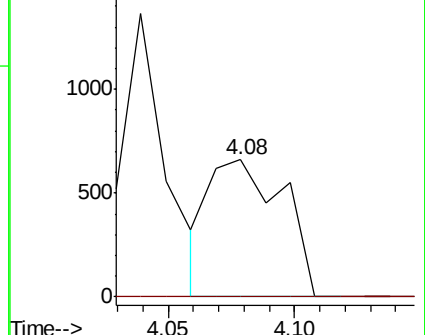
59 100

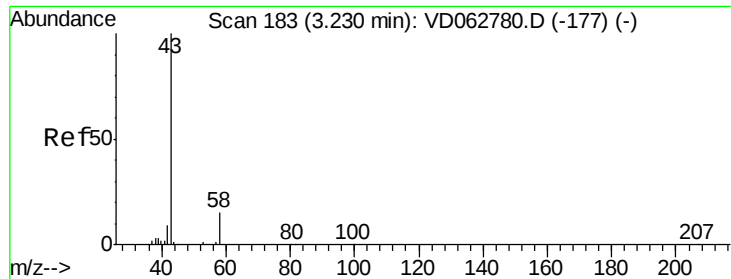
57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 28.534 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.03 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

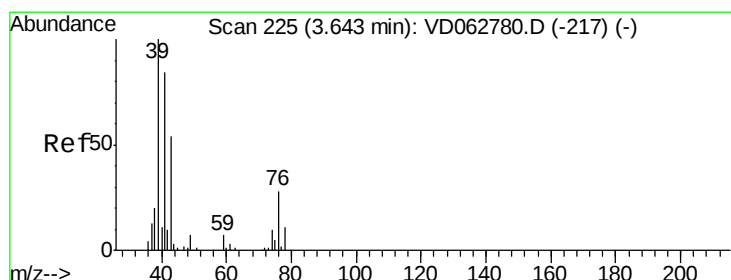
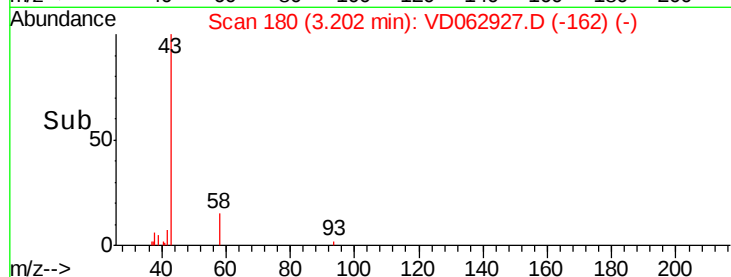
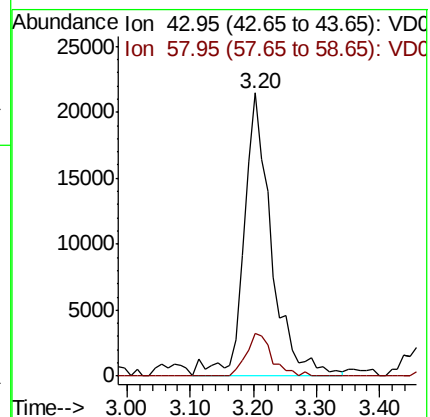
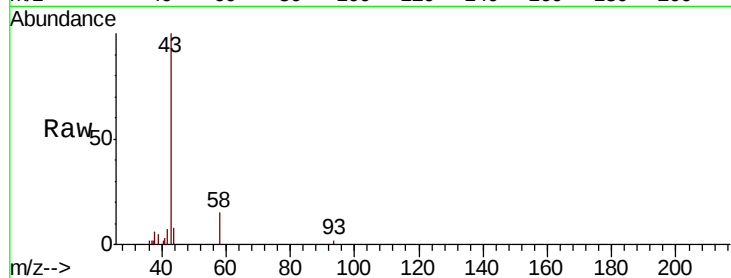
ClientSampleId :

Tot Ion: 43 Resp: 64853

Ion Ratio Lower Upper

43 100

58 15.1 11.9 17.9



#18

Methyl Acetate

Concen: 4.785 ug/l

RT: 3.62 min Scan# 222

Delta R.T. -0.03 min

Lab File: VD062927.D

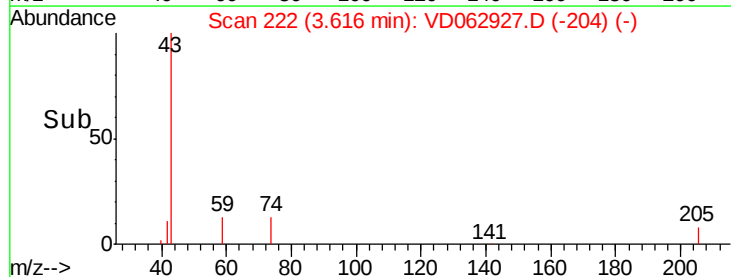
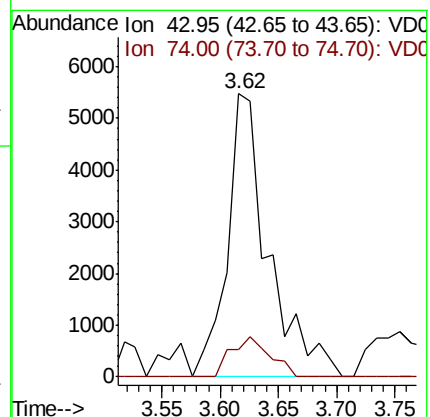
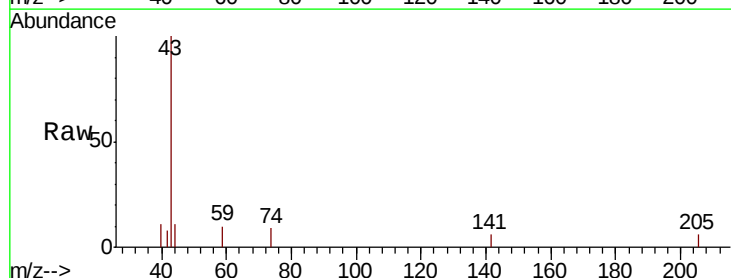
Acq: 27 Jun 2019 13:14

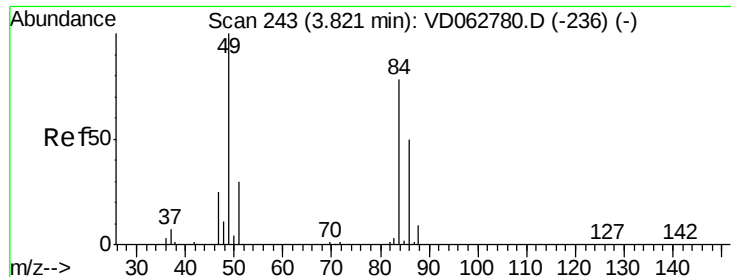
Tgt Ion: 43 Resp: 13302

Ion Ratio Lower Upper

43 100

74 9.5 15.2 22.8#

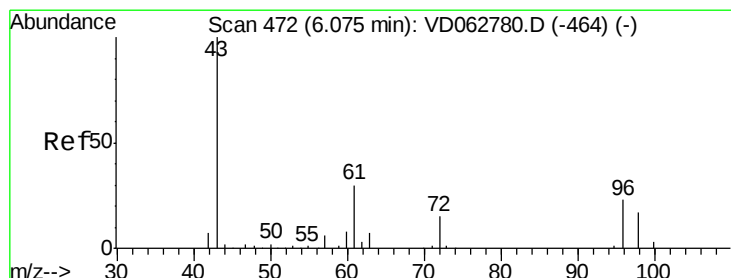
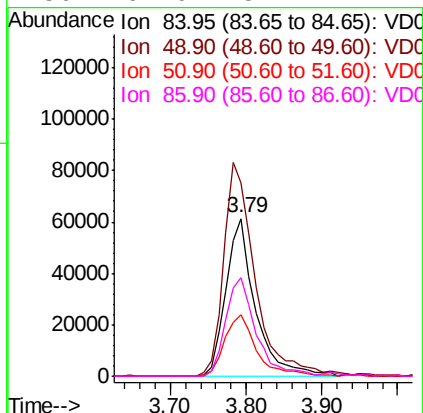
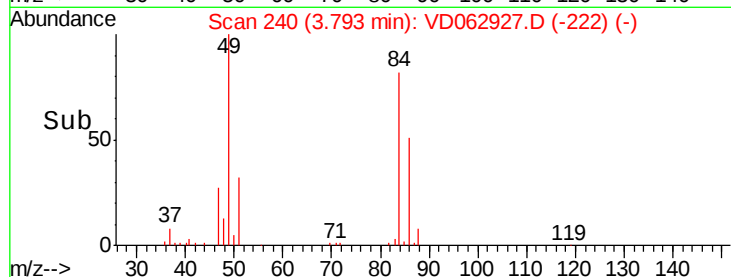
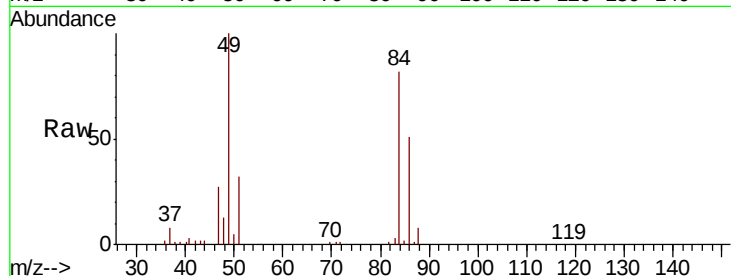




#20
Methvlene Chloride
Concen: 23.524 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.03 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

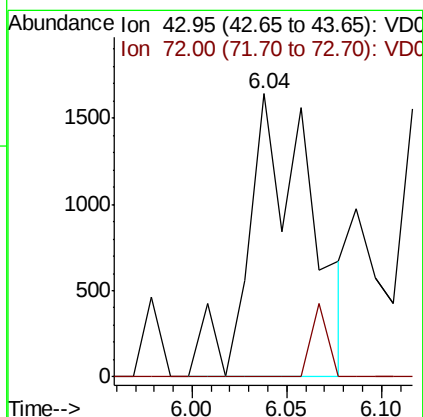
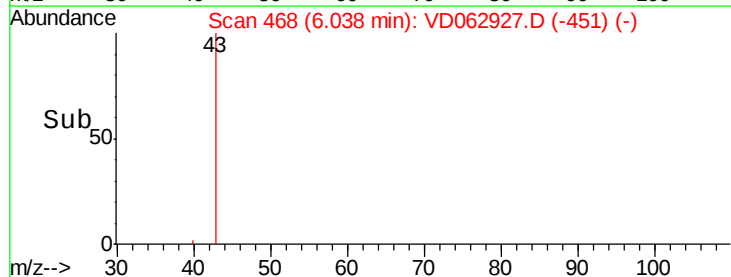
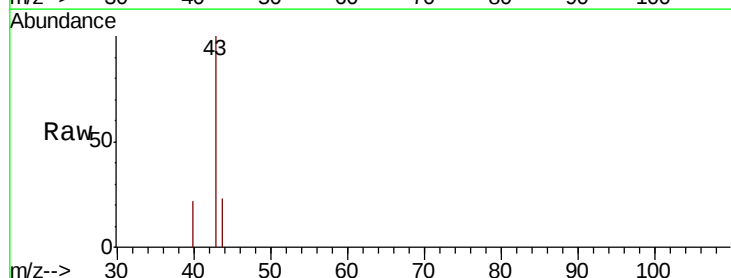
Instrument :
MSVOA_D
ClientSampleId :

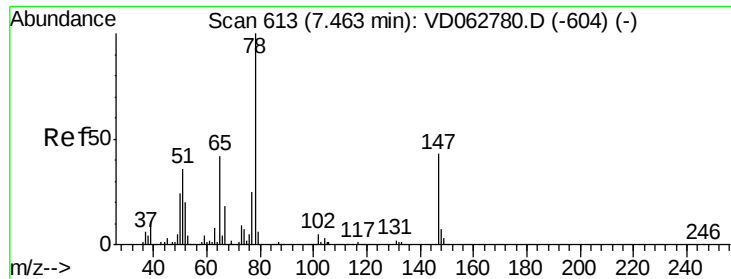
Tot Ion: 84 Resp: 165191
Ion Ratio Lower Upper
84 100
49 122.6 102.9 154.3
51 38.7 31.2 46.8
86 62.9 51.4 77.2



#25
2-Butanone
Concen: 2.167 ug/l
RT: 6.04 min Scan# 468
Delta R.T. -0.04 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Tgt Ion: 43 Resp: 3732
Ion Ratio Lower Upper
43 100
72 0.0 11.9 17.9#





#33

1,2-Dichloroethane-d4

Concen: 40.611 ug/l

RT: 7.43 min Scan# 609

Delta R.T. -0.04 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

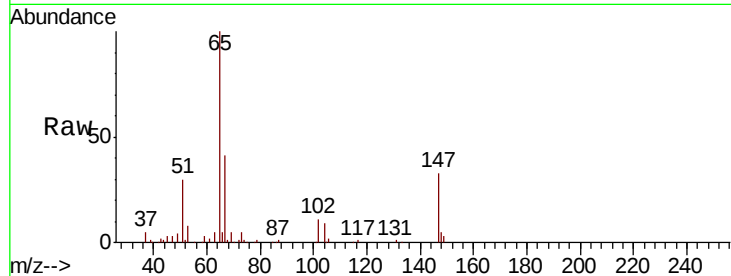
ClientSampled :

Tot Ion: 65 Resp: 373948

Ion Ratio Lower Upper

65 100

67 40.5 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.43

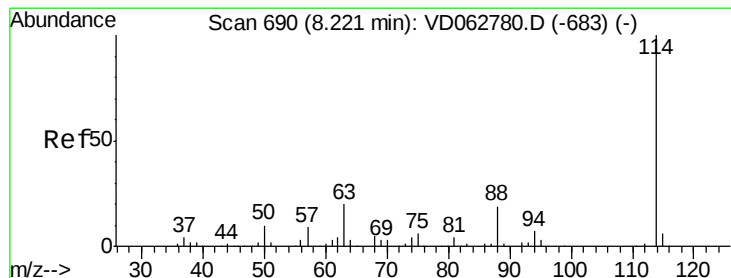
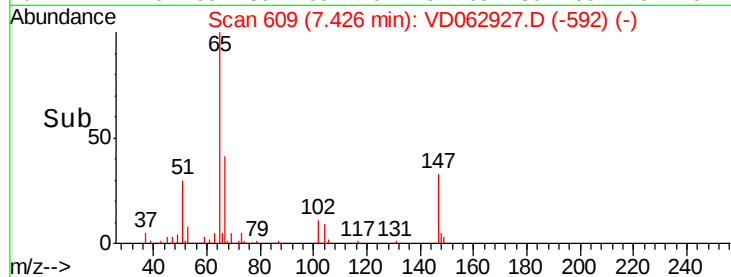
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 687

Delta R.T. -0.03 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

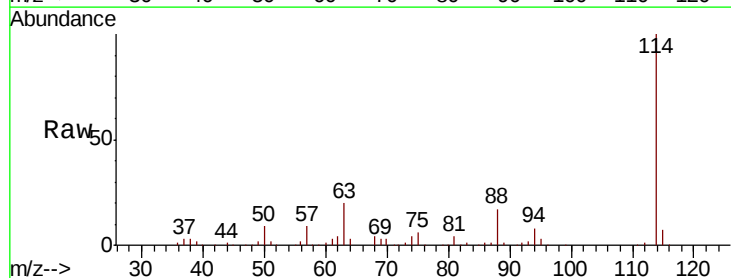
Tgt Ion: 114 Resp: 1116375

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

88 16.6 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.19

600000

500000

400000

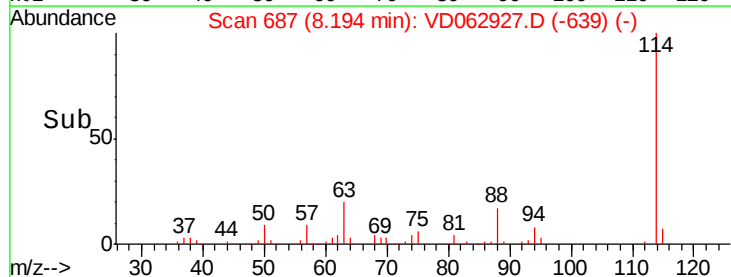
300000

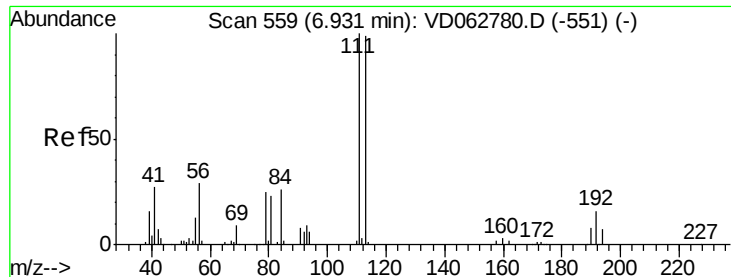
200000

100000

0

Time-->

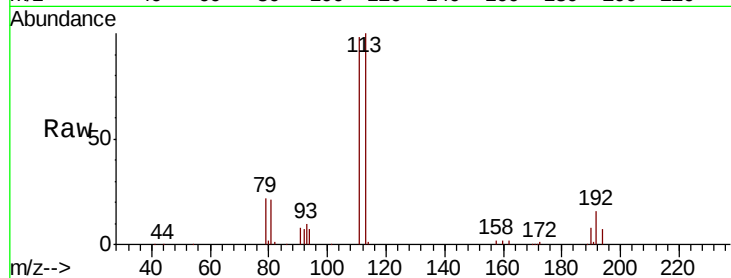




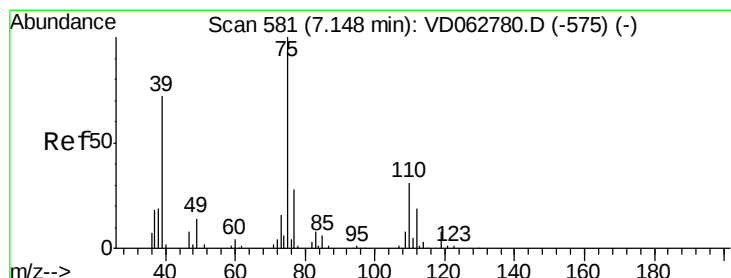
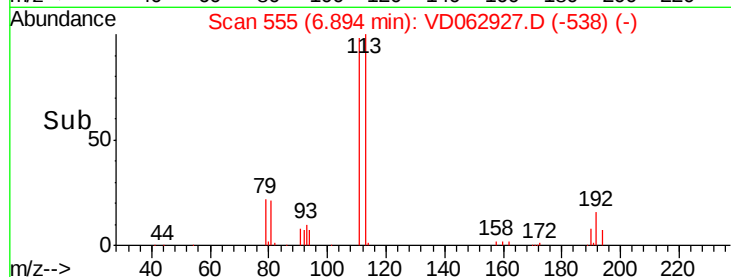
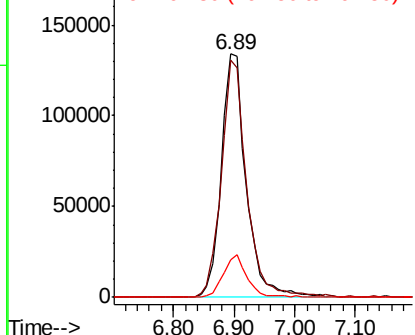
#35
Dibromofluoromethane
Concen: 40.834 ug/l
RT: 6.89 min Scan# 555
Delta R.T. -0.04 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:113 Resp: 384383
Ion Ratio Lower Upper
113 100
111 97.7 81.2 121.8
192 15.7 12.9 19.3

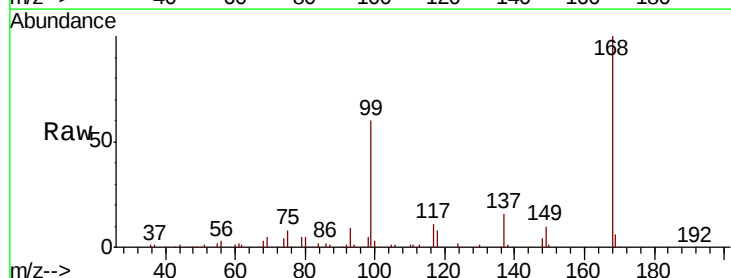


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

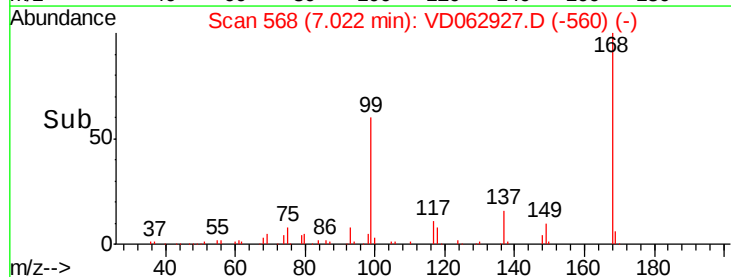
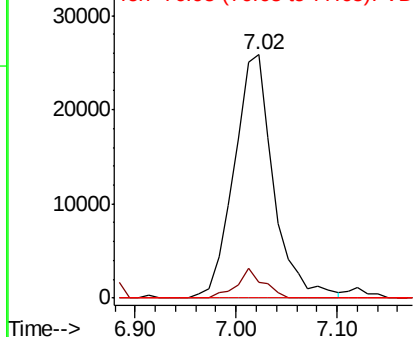


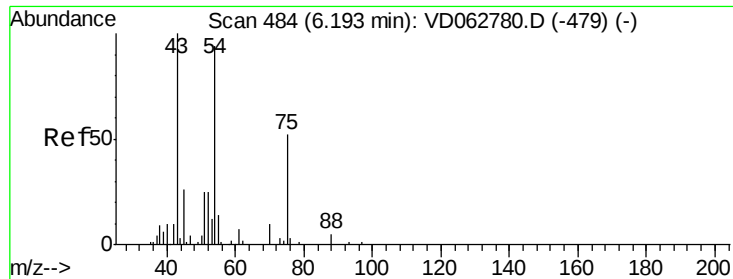
#36
1,1-Dichloropropene
Concen: 6.650 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.13 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Tgt Ion: 75 Resp: 70282
Ion Ratio Lower Upper
75 100
110 6.7 15.0 45.1#
77 0.0 22.2 33.2#



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





#37

Ethyl Acetate

Concen: 1.078 ug/l

RT: 6.15 min Scan# 479

Delta R.T. -0.05 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

ClientSampleId :

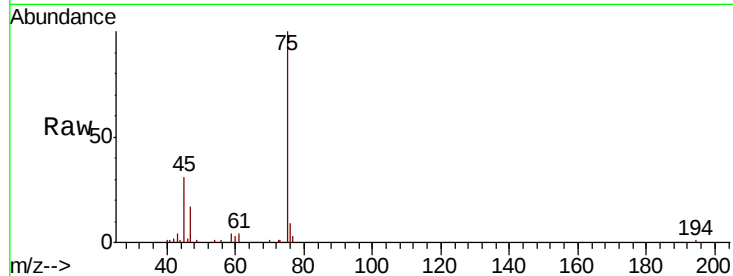
Tot Ion: 43 Resp: 9569

Ion Ratio Lower Upper

43 100

61 80.0 11.6 17.4#

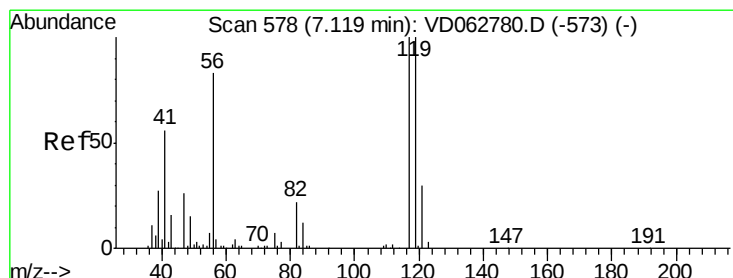
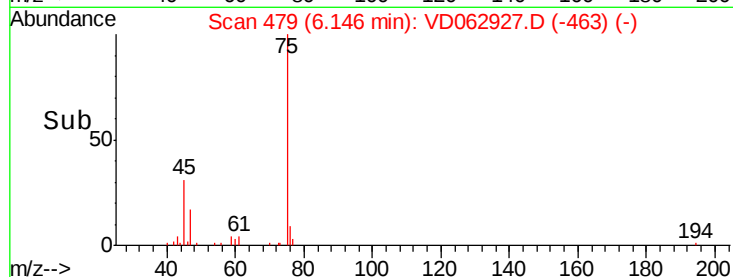
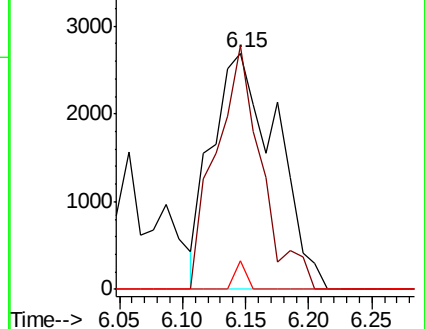
70 9.2 6.4 9.6



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: 5.765 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.11 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

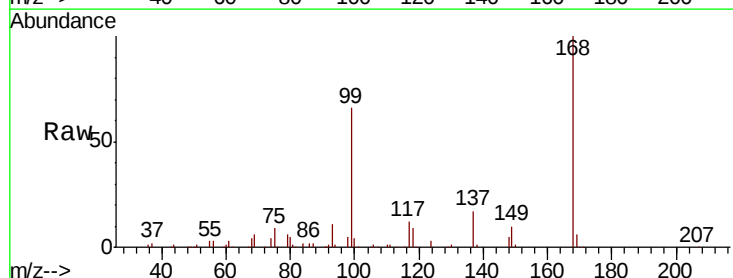
Tgt Ion: 117 Resp: 91634

Ion Ratio Lower Upper

117 100

119 4.2 75.4 113.2#

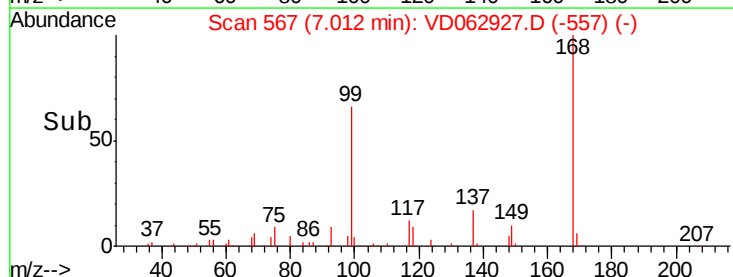
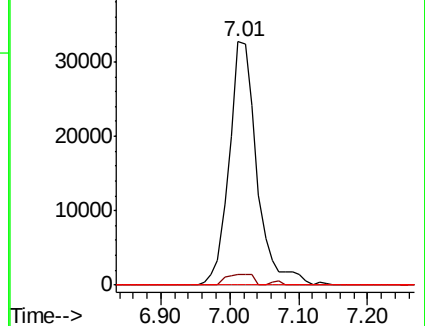
121 0.0 22.3 33.5#

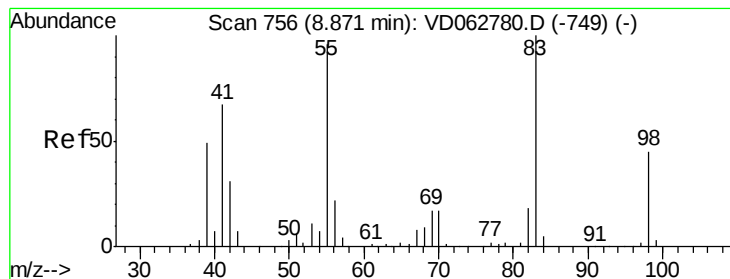


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methylcyclohexane

Concen: 1.659 ug/l

RT: 8.85 min Scan# 754

Delta R.T. -0.02 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

ClientSampled :

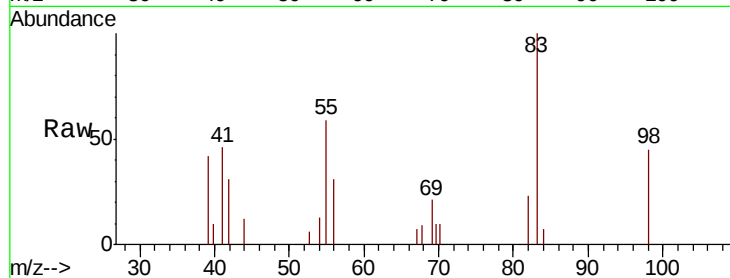
Tot Ion: 83 Resp: 15437

Ion Ratio Lower Upper

83 100

55 59.5 76.6 115.0#

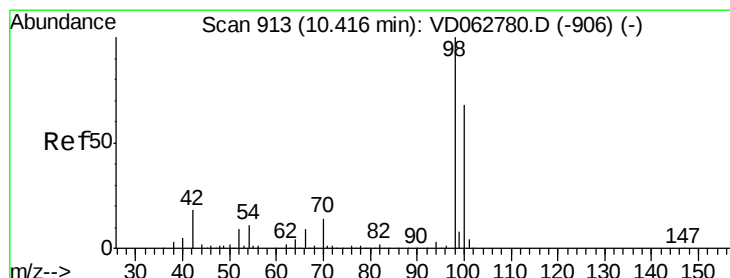
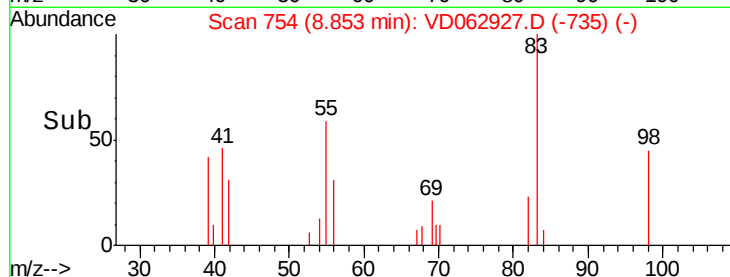
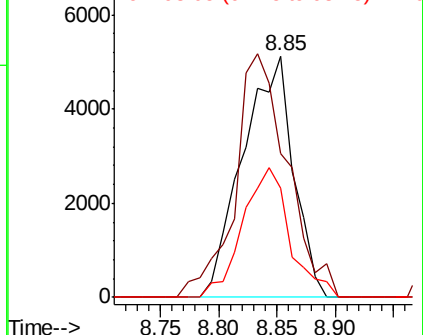
98 45.4 35.7 53.5



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



#50

Toluene-d8

Concen: 36.568 ug/l

RT: 10.39 min Scan# 910

Delta R.T. -0.03 min

Lab File: VD062927.D

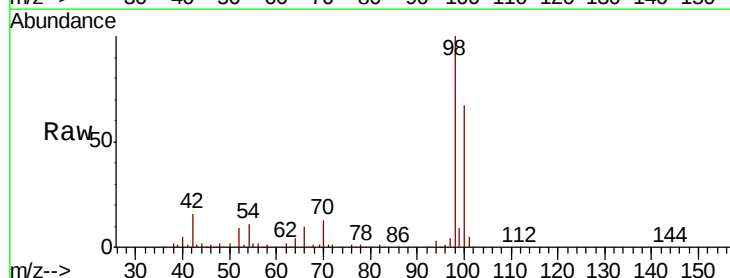
Acq: 27 Jun 2019 13:14

Tgt Ion: 98 Resp: 749180

Ion Ratio Lower Upper

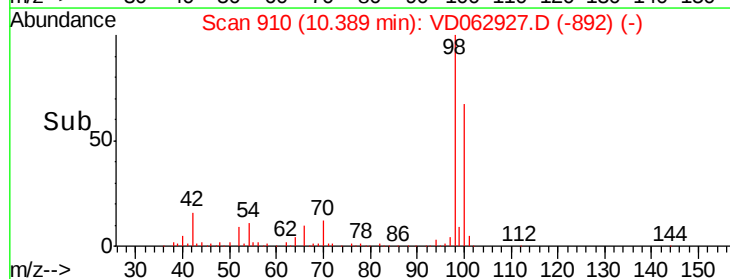
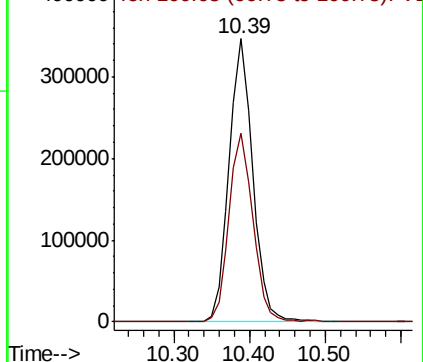
98 100

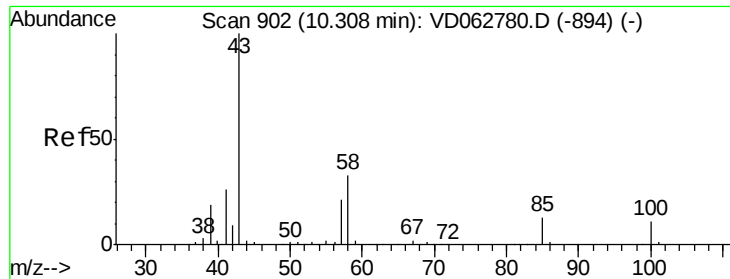
100 66.9 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 2.454 ug/l

RT: 10.28 min Scan# 899

Delta R.T. -0.03 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

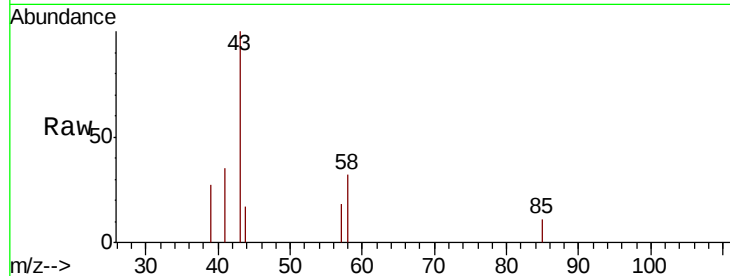
ClientSampleId :

Tot Ion: 43 Resp: 9638

Ion Ratio Lower Upper

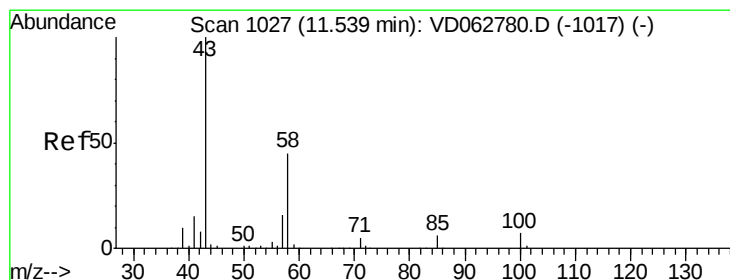
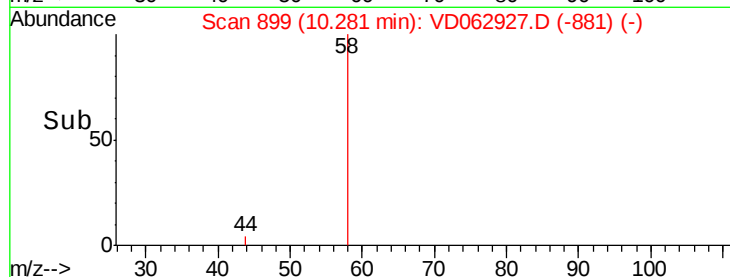
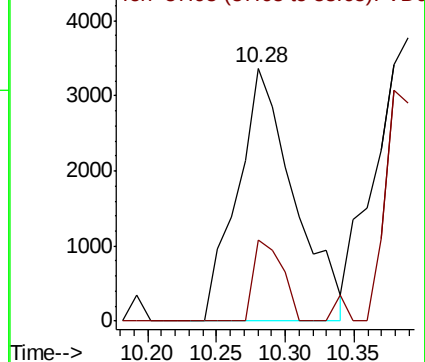
43 100

58 32.1 26.6 40.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 10.929 ug/l

RT: 11.47 min Scan# 1020

Delta R.T. -0.07 min

Lab File: VD062927.D

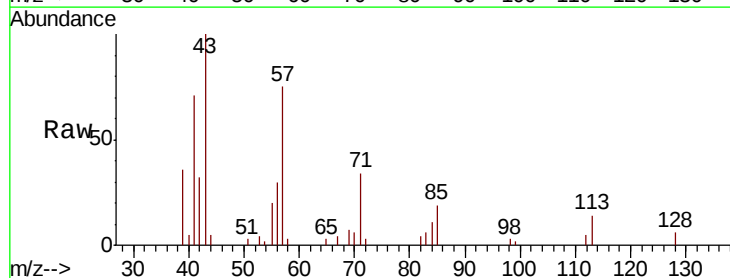
Acq: 27 Jun 2019 13:14

Tgt Ion: 43 Resp: 30575

Ion Ratio Lower Upper

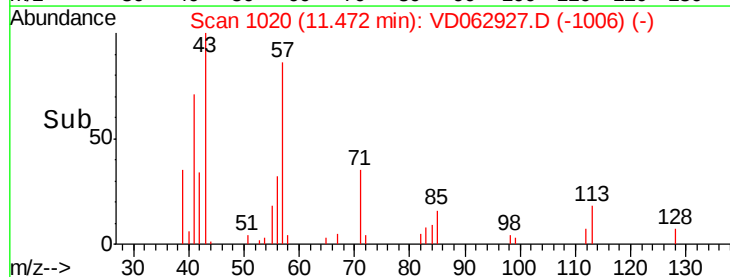
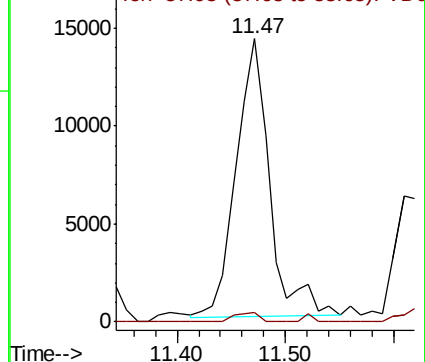
43 100

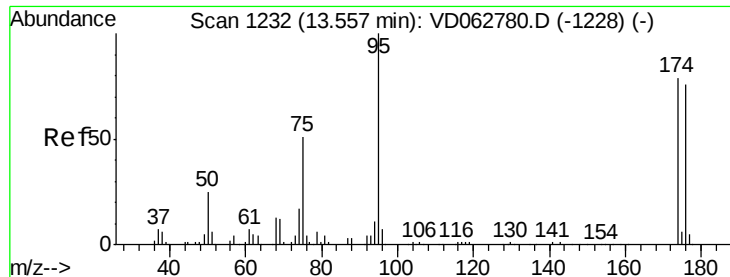
58 3.3 22.4 67.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

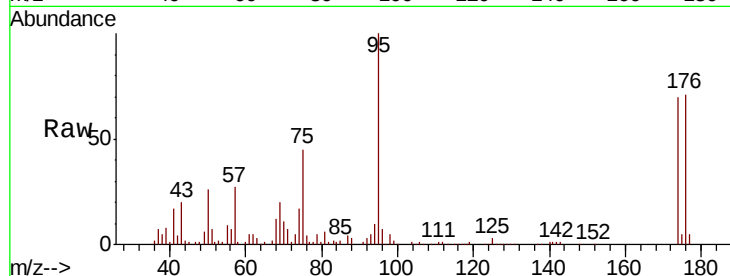




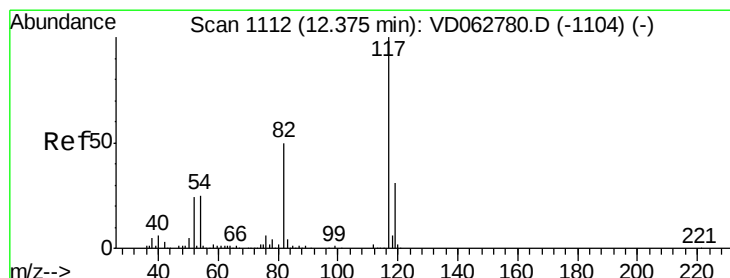
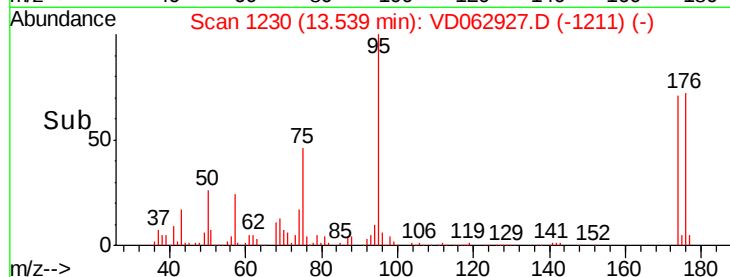
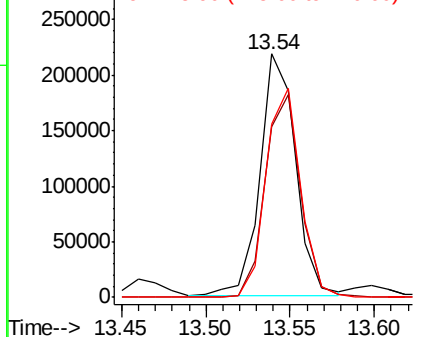
#62
4-Bromofluorobenzene
Concen: 34.205 ug/l
RT: 13.54 min Scan# 1230
Delta R.T. -0.02 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	95	Resp	318647
Ion Ratio	100	Lower	Upper
174	69.9	0.0	158.0
176	71.3	0.0	151.6

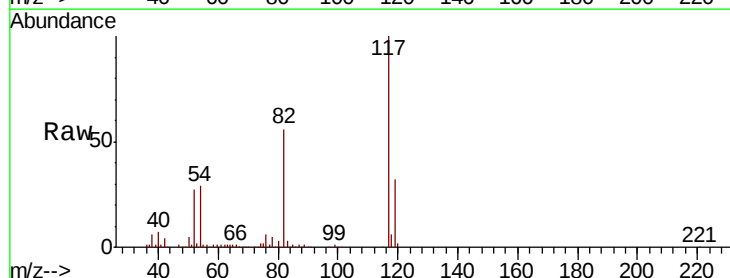


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

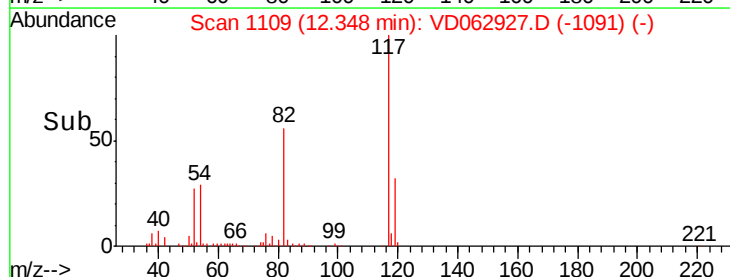
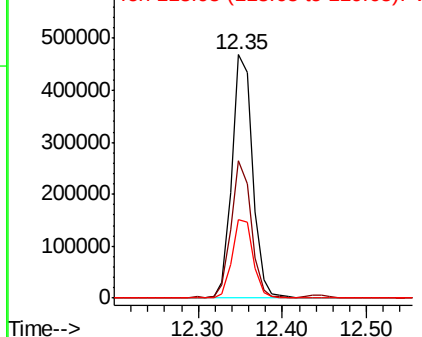


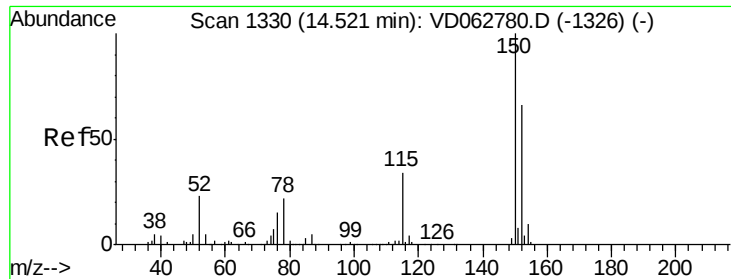
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1109
Delta R.T. -0.03 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Tgt Ion	117	Resp	808151
Ion Ratio	100	Lower	Upper
82	56.2	40.4	60.6
119	32.4	25.2	37.8



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



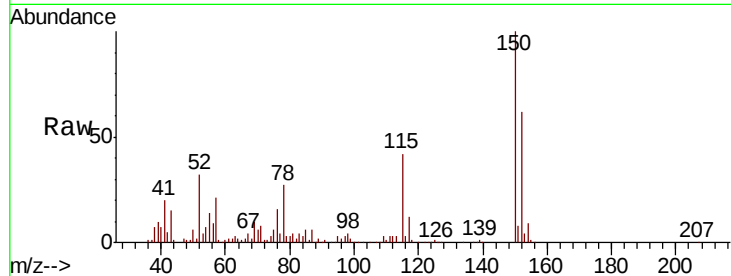


#72

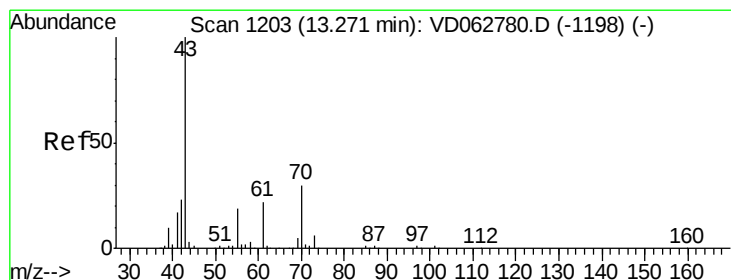
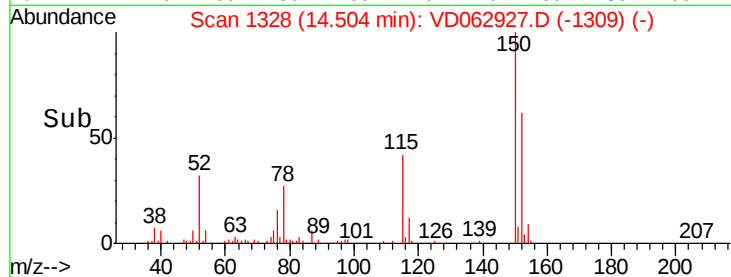
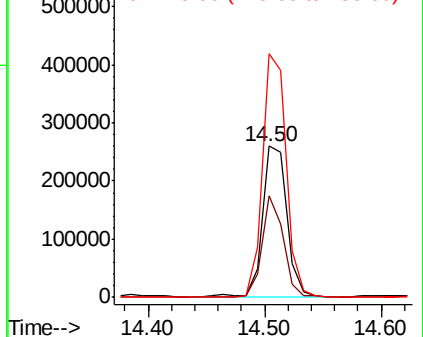
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.02 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 381066
Ion Ratio Lower Upper
152 100
115 67.0 29.2 87.6
150 161.2 0.0 305.8



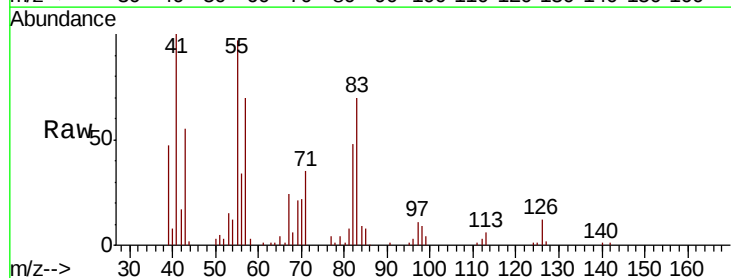
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



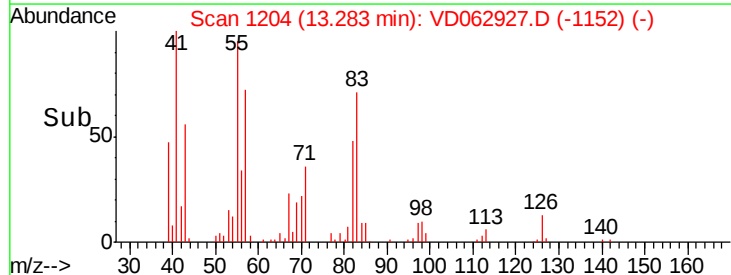
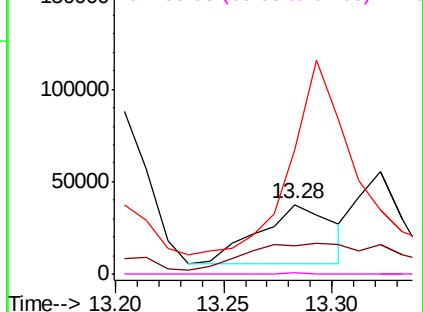
#74

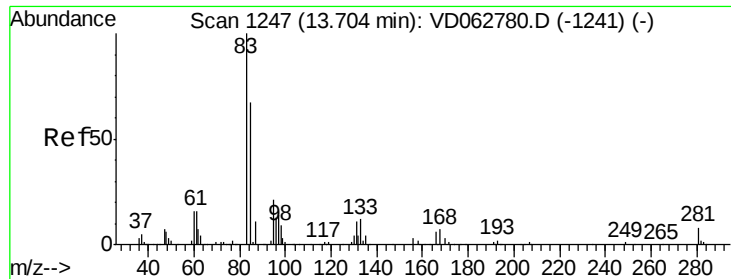
N-ethyl acetate
Concen: 12.785 ug/l
RT: 13.28 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Tgt Ion: 43 Resp: 75862
Ion Ratio Lower Upper
43 100
70 40.7 24.4 36.6#
55 177.3 15.2 22.8#
61 1.0 17.4 26.2#



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





#75

1,1,2,2-Tetrachloroethane

Concen: 11.892 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

ClientSampleId :

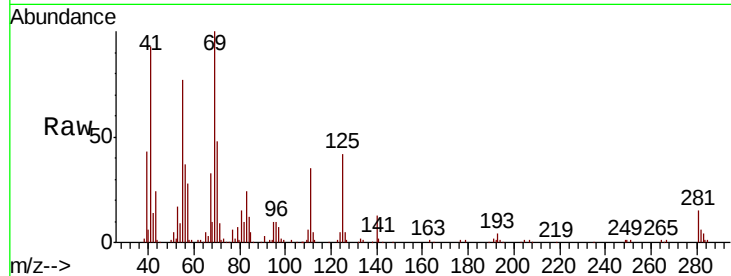
Tot Ion: 83 Resp: 47340

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

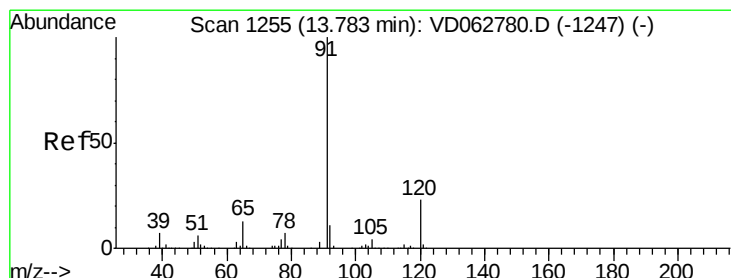
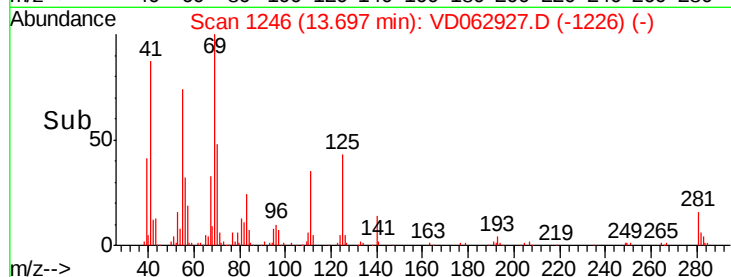
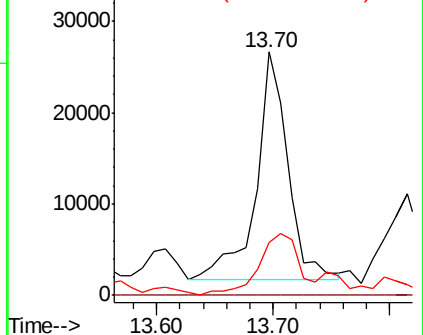
85 21.8 33.7 101.1#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC



#78

n-propylbenzene

Concen: 1.224 ug/l

RT: 13.76 min Scan# 1252

Delta R.T. -0.03 min

Lab File: VD062927.D

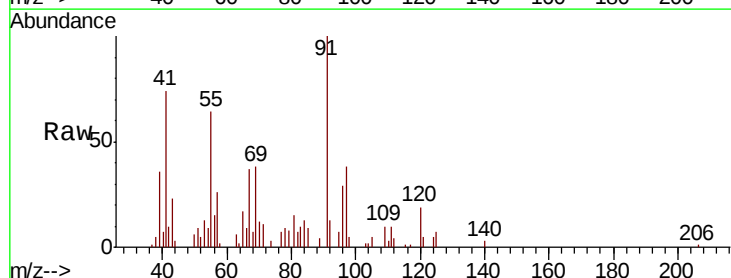
Acq: 27 Jun 2019 13:14

Tgt Ion: 91 Resp: 34817

Ion Ratio Lower Upper

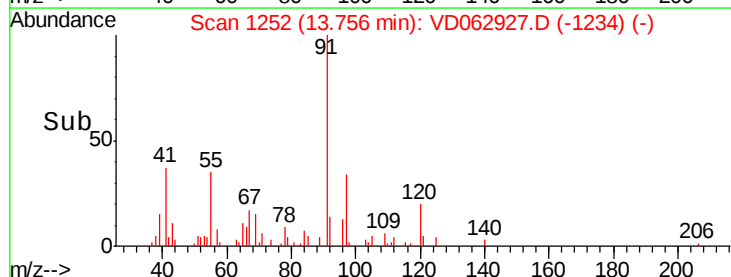
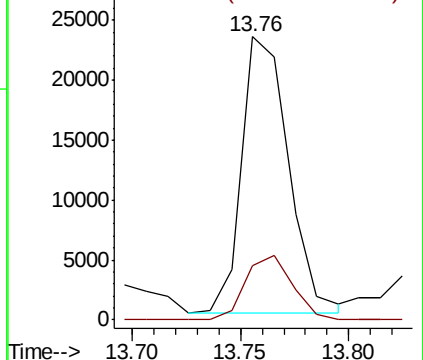
91 100

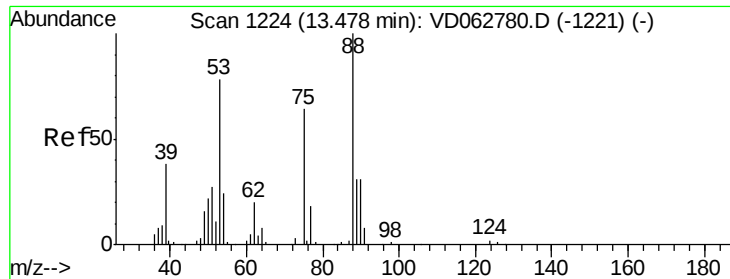
120 19.2 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V

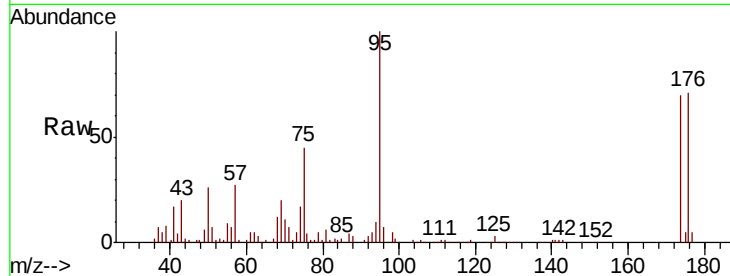




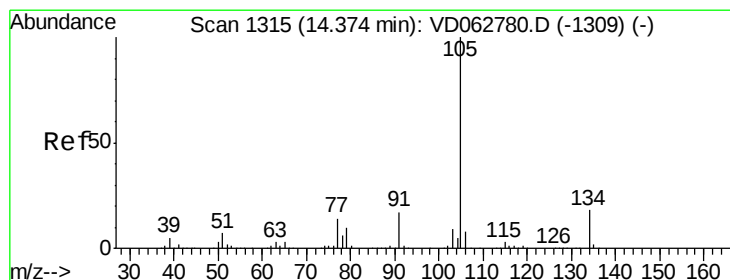
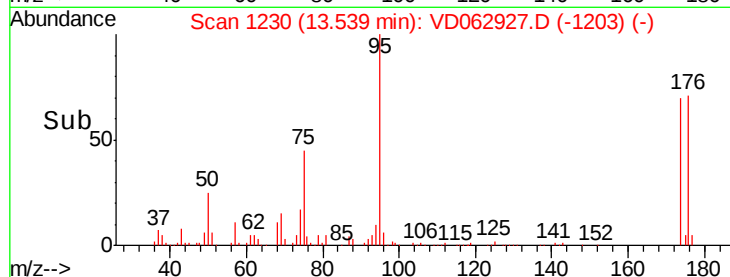
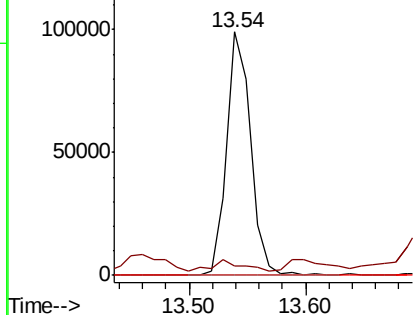
#81
trans-1,4-Dichloro-2-butene
Concen: 122.793 ug/l
RT: 13.54 min Scan# 1230
Delta R.T. 0.06 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 141574
Ion Ratio Lower Upper
75 100
53 3.6 97.8 146.8#
89 0.0 39.4 59.2#

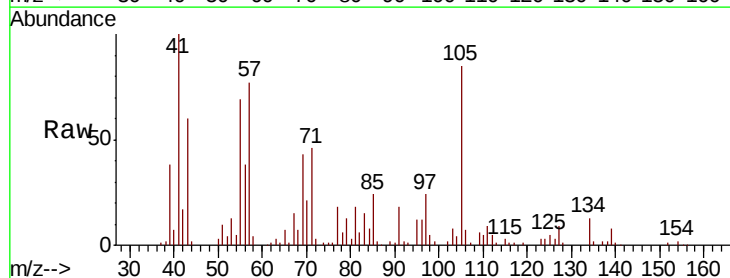


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

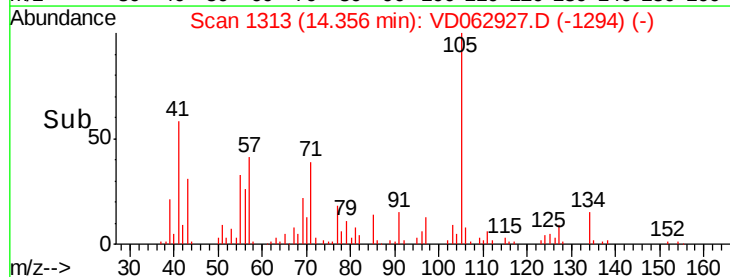
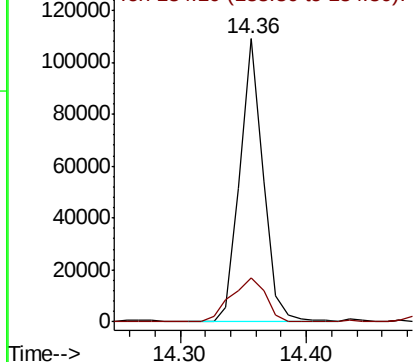


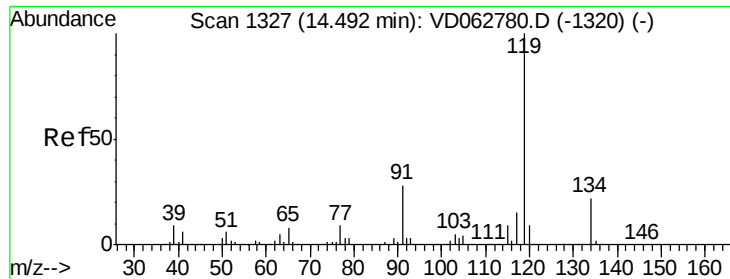
#85
sec-Butylbenzene
Concen: 5.603 ug/l
RT: 14.36 min Scan# 1313
Delta R.T. -0.02 min
Lab File: VD062927.D
Acq: 27 Jun 2019 13:14

Tgt Ion:105 Resp: 139311
Ion Ratio Lower Upper
105 100
134 15.4 9.1 27.3



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 134.10 (133.80 to 134.80): V

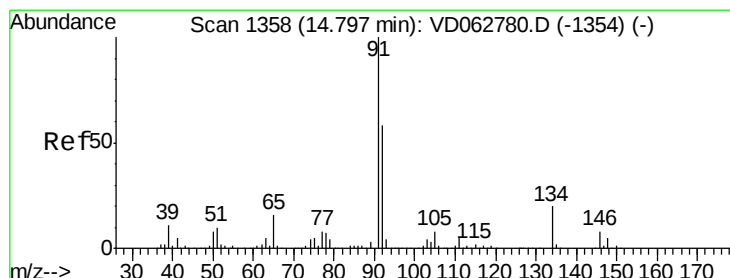
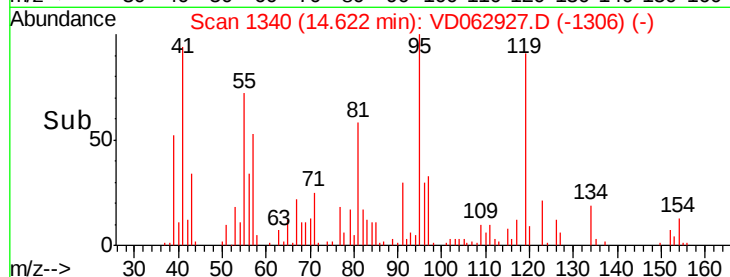
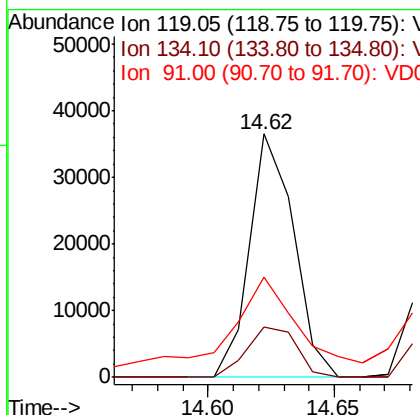
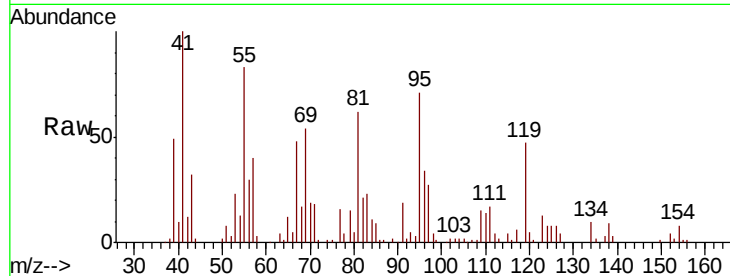




#86
 p-Isopropyltoluene
 Concen: 1.967 ug/l
 RT: 14.62 min Scan# 1340
 Delta R.T. 0.13 min
 Lab File: VD062927.D
 Acq: 27 Jun 2019 13:14

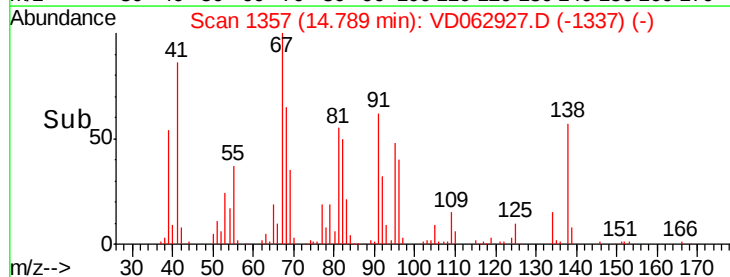
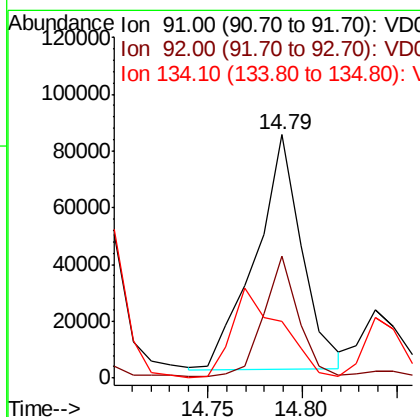
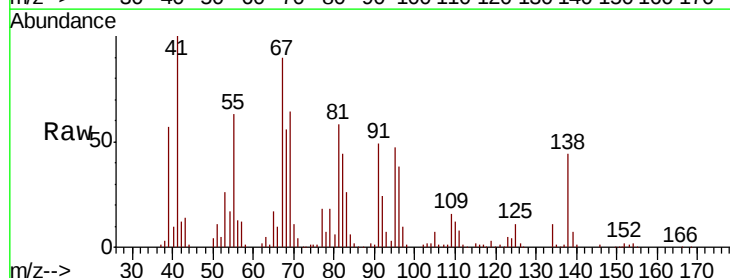
Instrument :
 MSVOA_D
 ClientSampleID :

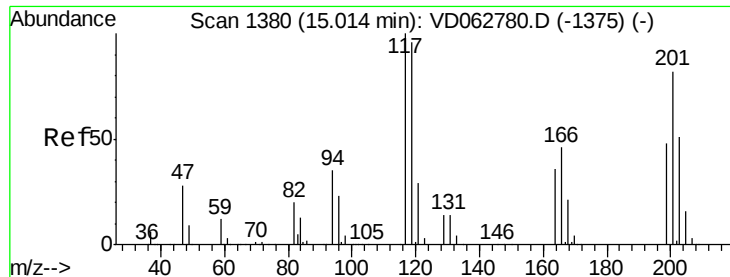
Tot Ion:119 Resp: 44732
 Ion Ratio Lower Upper
 119 100
 134 20.7 11.1 33.1
 91 41.0 14.0 41.9



#89
 n-Butylbenzene
 Concen: 6.636 ug/l
 RT: 14.79 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VD062927.D
 Acq: 27 Jun 2019 13:14

Tgt Ion: 91 Resp: 141269
 Ion Ratio Lower Upper
 91 100
 92 50.3 28.9 86.7
 134 23.4 10.1 30.3





#90

Hexachloroethane

Concen: 10.552 ug/l

RT: 15.05 min Scan# 1383

Delta R.T. 0.03 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

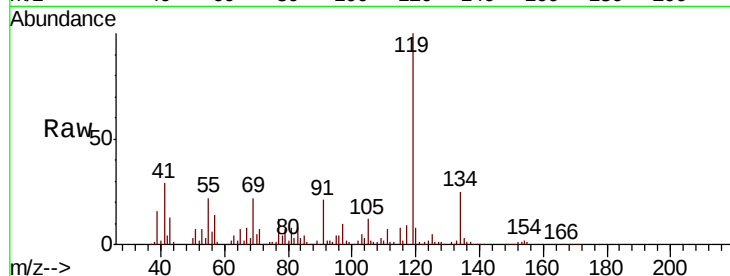
ClientSampled :

Tot Ion:117 Resp: 64530

Ion Ratio Lower Upper

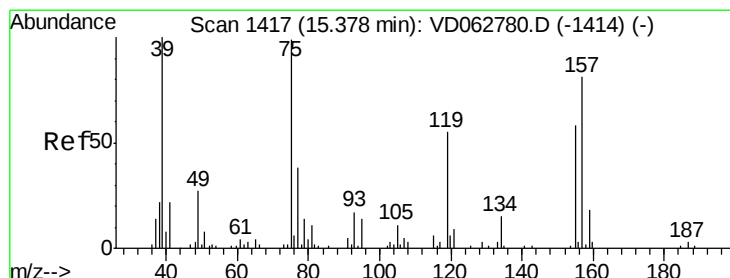
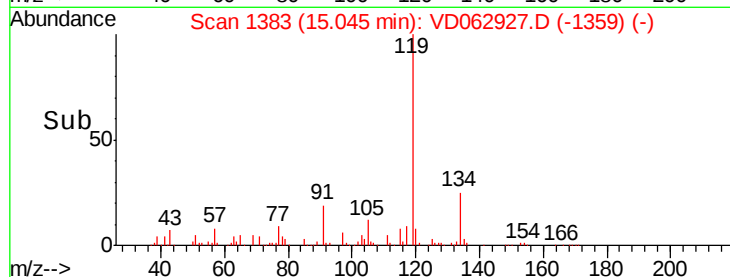
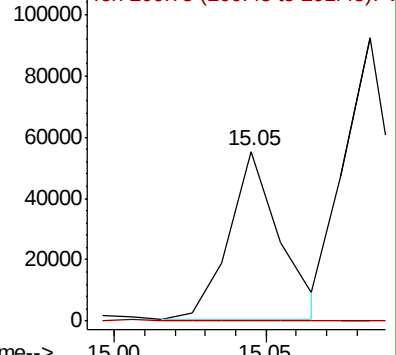
117 100

201 0.0 40.8 122.2#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.936 ug/l

RT: 15.34 min Scan# 1413

Delta R.T. -0.04 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

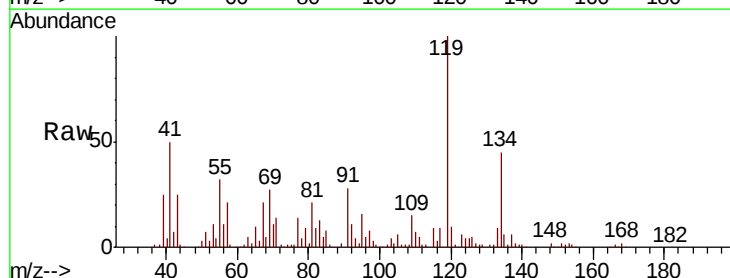
Tgt Ion: 75 Resp: 7720

Ion Ratio Lower Upper

75 100

155 27.5 29.3 87.8#

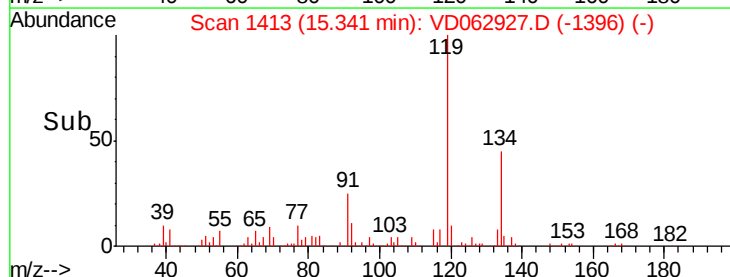
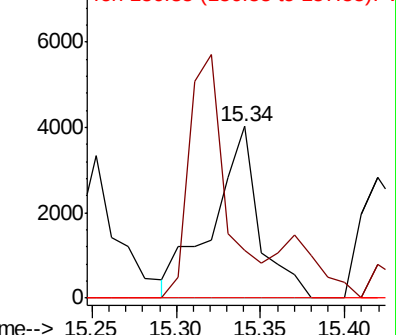
157 0.0 41.3 123.7#

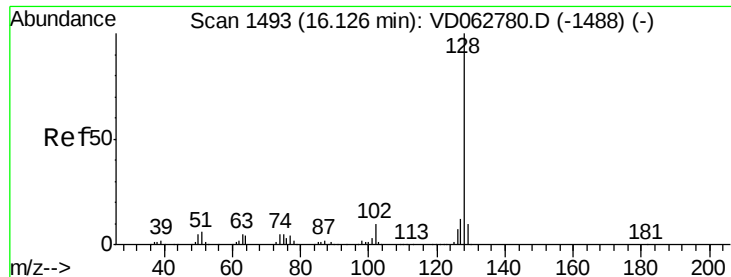


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





#95

Naphthalene

Concen: 2.611 ug/l

RT: 16.11 min Scan# 1491

Delta R.T. -0.02 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Instrument :

MSVOA_D

ClientSampled :

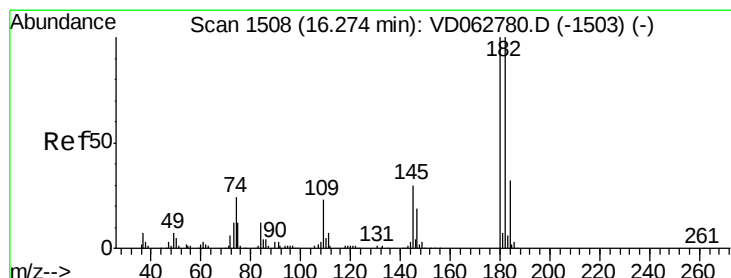
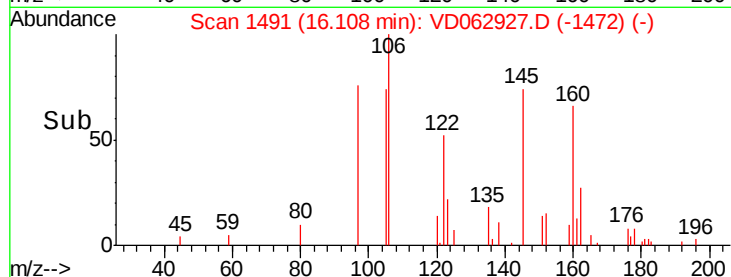
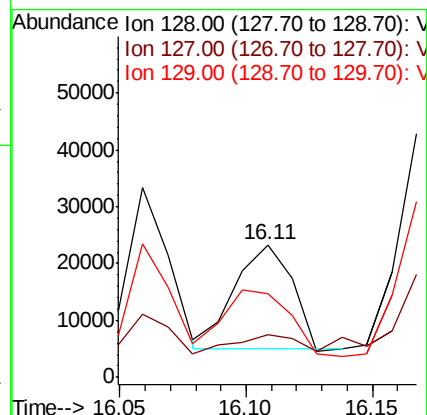
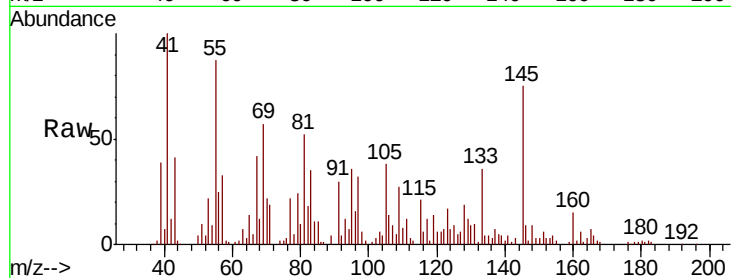
Tot Ion:128 Resp: 28817

Ion Ratio Lower Upper

128 100

127 32.3 9.7 14.5#

129 63.6 8.3 12.5#



#96

1,2,3-Trichlorobenzene

Concen: 1.622 ug/l

RT: 16.25 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD062927.D

Acq: 27 Jun 2019 13:14

Tgt Ion:180 Resp: 9813

Ion Ratio Lower Upper

180 100

182 18.0 49.9 149.6#

145 995.3 15.2 45.5#

