

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100520\
 Data File : VD067089.D
 Acq On : 05 Oct 2020 17:47
 Operator : VA/SY
 Sample : L4242-07
 Misc : 7.22G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B24-100120-17-18

Quant Time: Oct 06 07:19:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

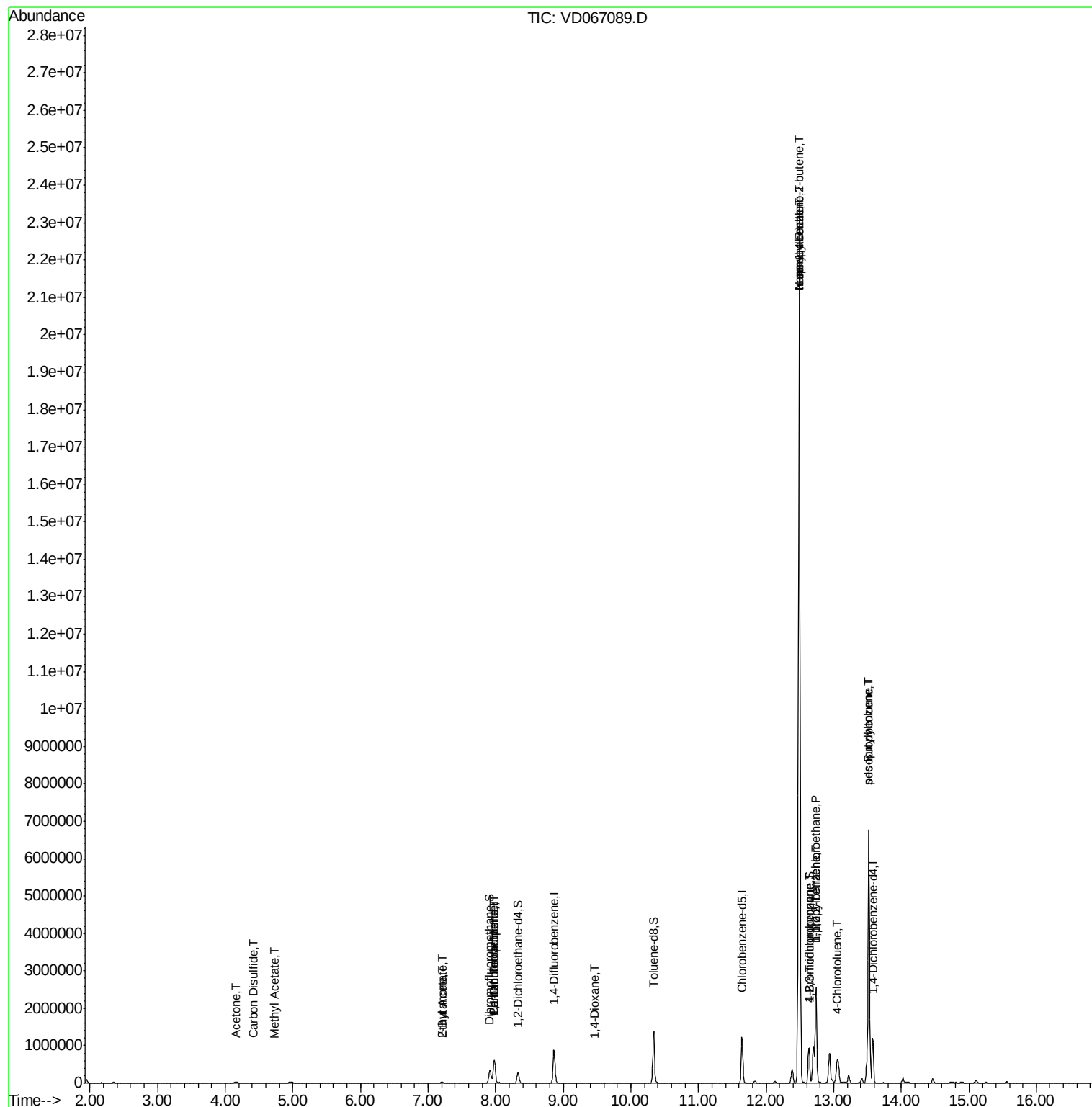
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	476727	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	804466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	741157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	334167	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	231210	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
35) Dibromofluoromethane	7.91	113	257949	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
50) Toluene-d8	10.34	98	937433	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
62) 4-Bromofluorobenzene	12.64	95	317609	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	194	Below Cal	#	40
5) Bromomethane	2.78	94	304	Below Cal	#	48
11) Tert butyl alcohol	5.21	59	1424	Below Cal	#	72
16) Acetone	4.16	43	44501	63.487	ug/l	97
17) Carbon Disulfide	4.41	76	15190	1.101	ug/l	98
18) Methyl Acetate	4.73	43	3033	1.722	ug/l #	72
20) Methylene Chloride	4.97	84	18854	Below Cal		89
25) 2-Butanone	7.21	43	7228	7.273	ug/l #	83
26) 2,2-Dichloropropane	7.21	77	894	Below Cal	#	53
36) 1,1-Dichloropropene	7.98	75	32453	4.328	ug/l #	51
37) Ethyl Acetate	7.21	43	7228	2.782	ug/l #	72
38) Carbon Tetrachloride	7.98	117	49365	6.084	ug/l #	15
49) 1,4-Dioxane	9.46	88	54	1.840	ug/l #	25
73) Isopropylbenzene	12.49	105	1151347	50.742	ug/l #	60
74) N-amyl acetate	12.49	43	421311	103.288	ug/l #	11
75) 1,1,2,2-Tetrachloroethane	12.73	83	4356	1.139	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	151919	52.193	ug/l #	100
78) n-propylbenzene	12.74	91	277070	10.332	ug/l #	54
81) trans-1,4-Dichloro-2-buten	12.49	75	35498	30.405	ug/l #	1
82) 4-Chlorotoluene	13.05	91	68872	4.219	ug/l #	40
85) sec-Butylbenzene	13.52	105	157788	6.941	ug/l #	1
86) p-Isopropyltoluene	13.52	119	3980174	188.838	ug/l	99

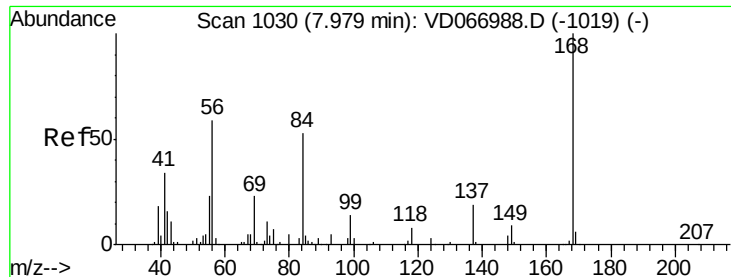
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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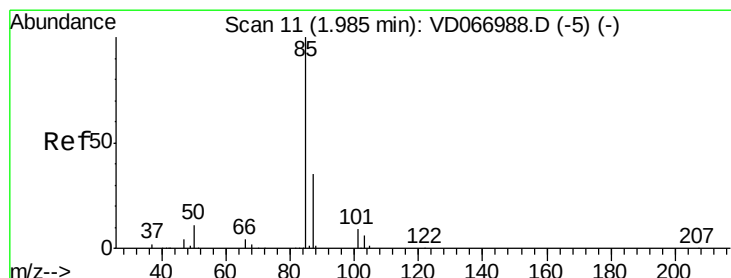
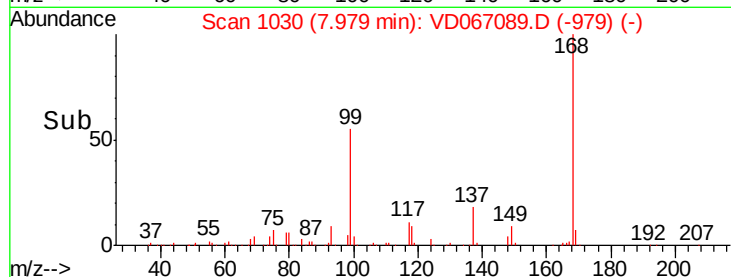
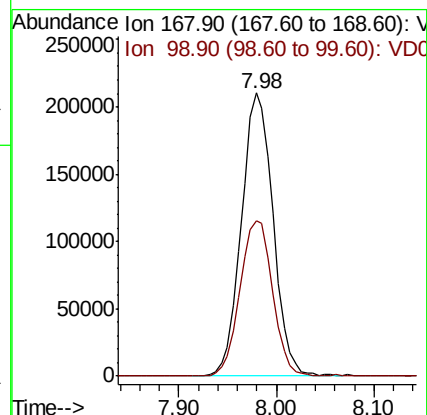
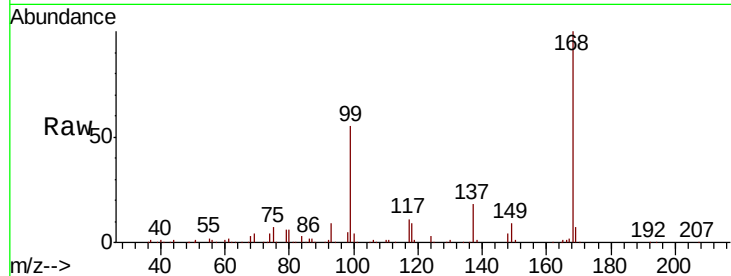




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

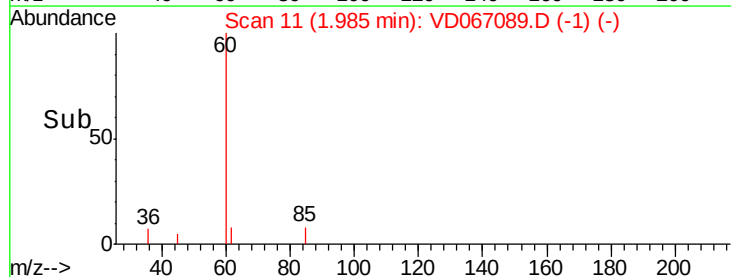
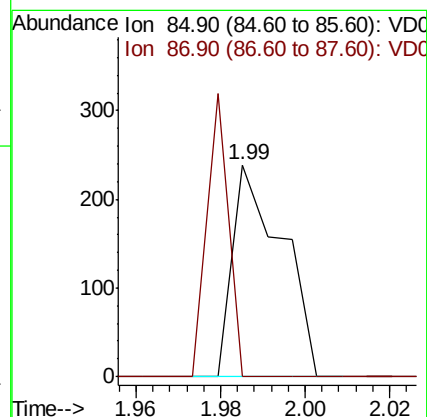
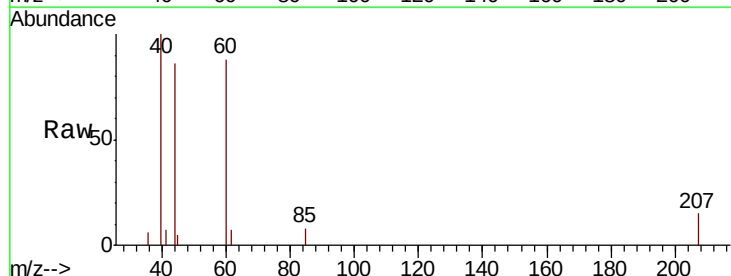
Instrument :
MSVOA_D
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PAV-B24-100120-17-18

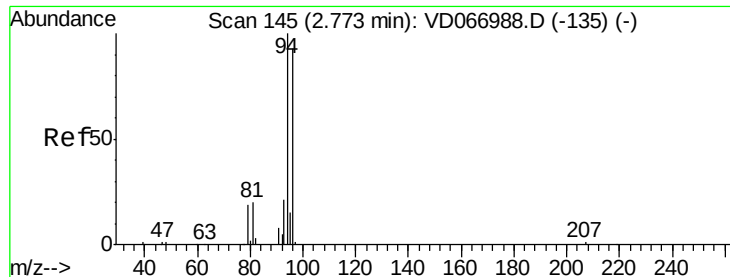
Tot Ion:168 Resp: 476727
Ion Ratio Lower Upper
168 100
99 54.7 44.1 66.1



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.99 min Scan# 11
Delta R.T. 0.00 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

Tgt Ion: 85 Resp: 194
Ion Ratio Lower Upper
85 100
87 0.0 17.3 52.0#





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

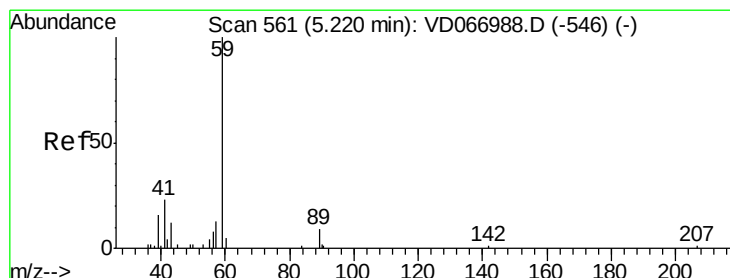
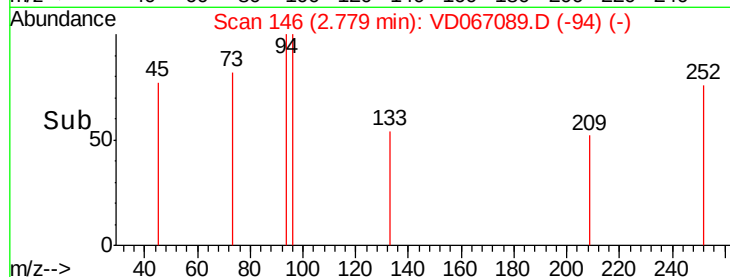
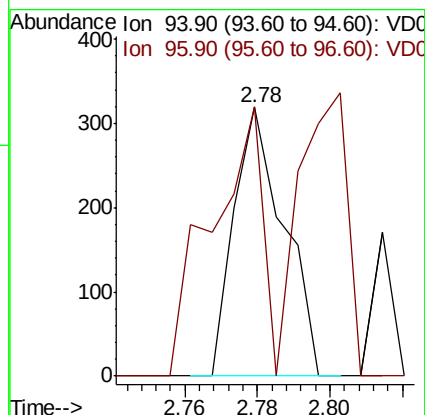
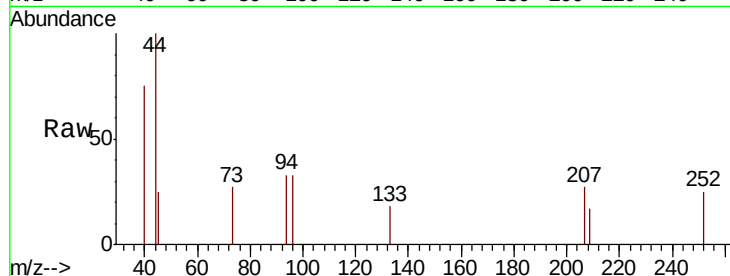
PAV-B24-100120-17-18

Tot Ion: 94 Resp: 304

Ion Ratio Lower Upper

94 100

96 43.6 74.6 112.0#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD067089.D

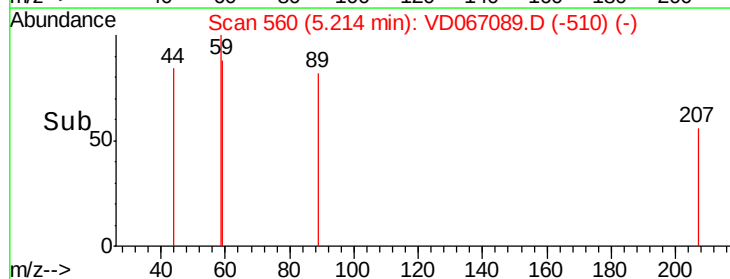
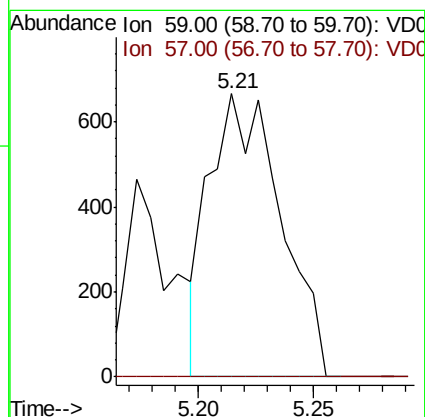
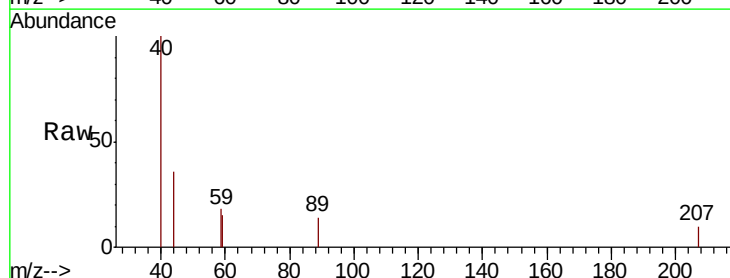
Acq: 05 Oct 2020 17:47

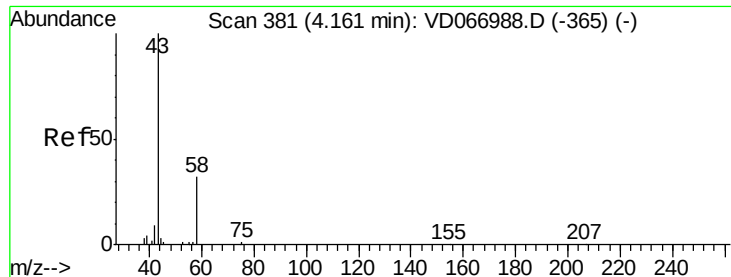
Tgt Ion: 59 Resp: 1424

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#16

Acetone

Concen: 63.487 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

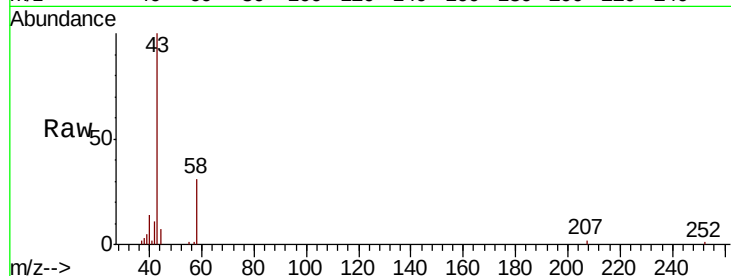
PAV-B24-100120-17-18

Tot Ion: 43 Resp: 44501

Ion Ratio Lower Upper

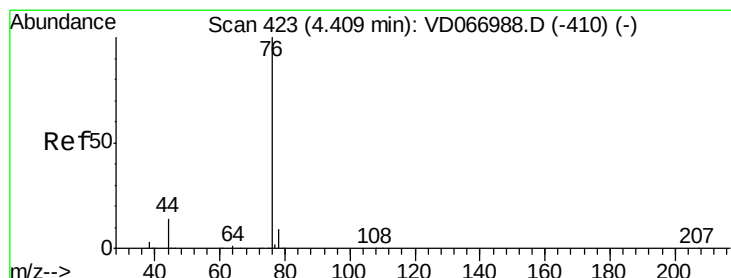
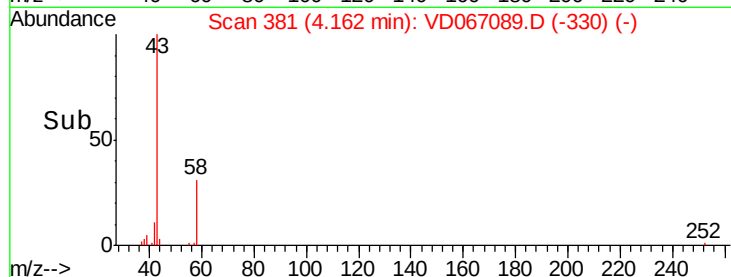
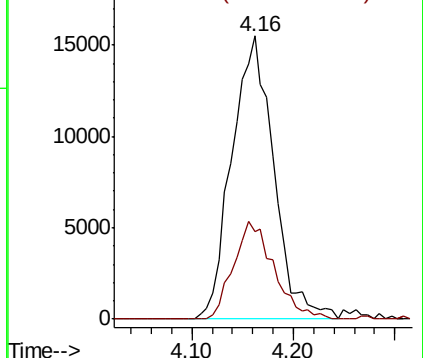
43 100

58 30.7 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 1.101 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD067089.D

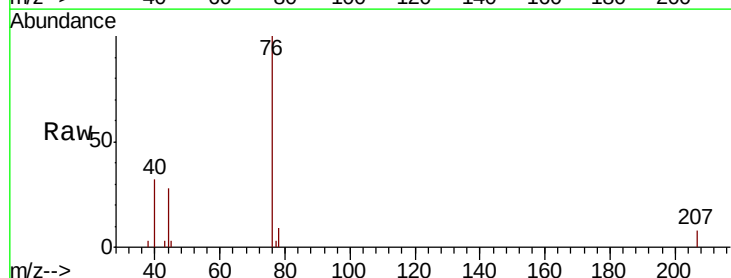
Acq: 05 Oct 2020 17:47

Tgt Ion: 76 Resp: 15190

Ion Ratio Lower Upper

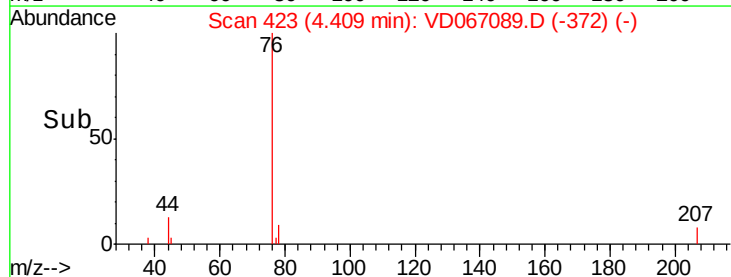
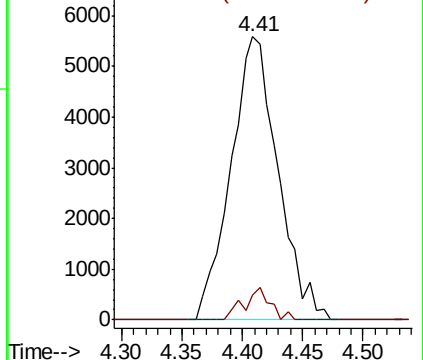
76 100

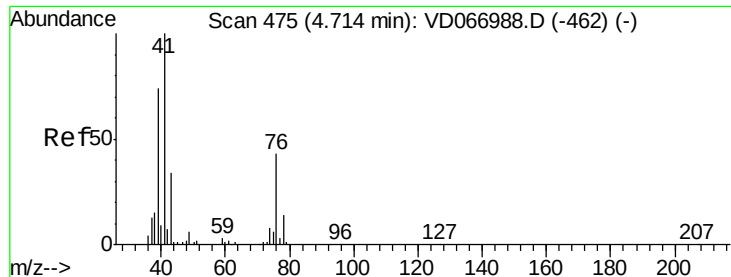
78 8.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

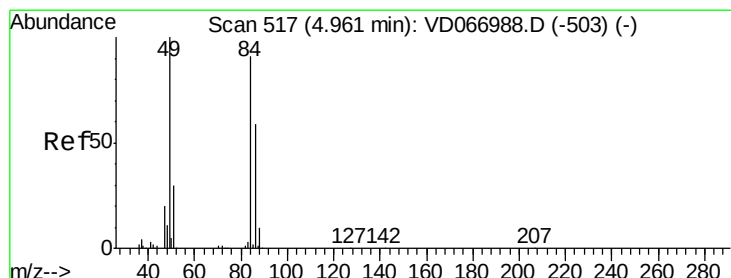
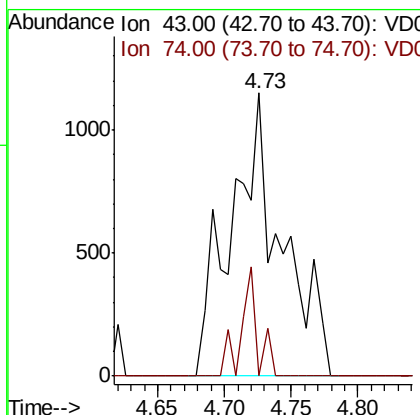
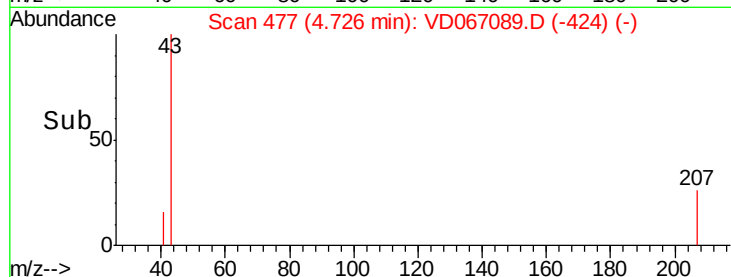
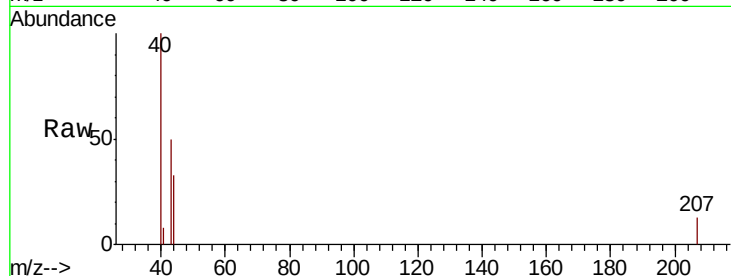




#18
Methyl Acetate
Concen: 1.722 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

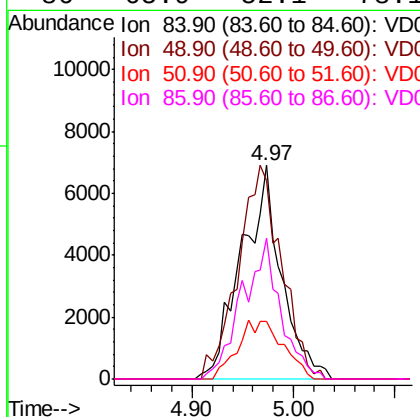
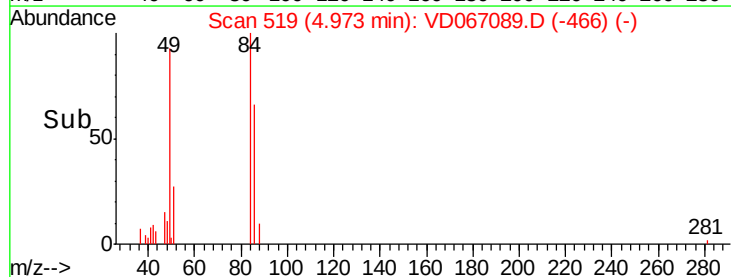
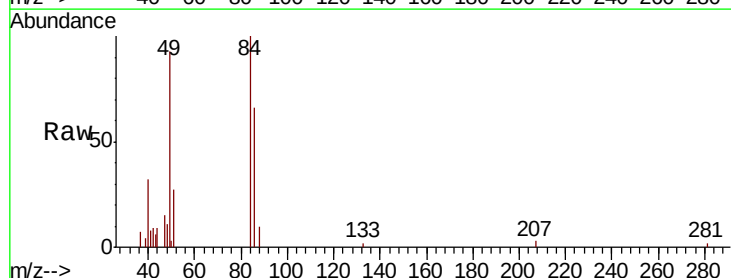
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PAV-B24-100120-17-18

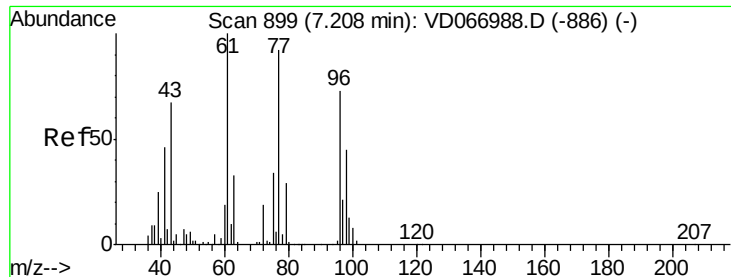
Tot Ion: 43 Resp: 3033
Ion Ratio Lower Upper
43 100
74 12.5 21.5 32.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

Tgt Ion: 84 Resp: 18854
Ion Ratio Lower Upper
84 100
49 92.8 88.2 132.2
51 27.1 26.6 39.8
86 65.9 52.1 78.1

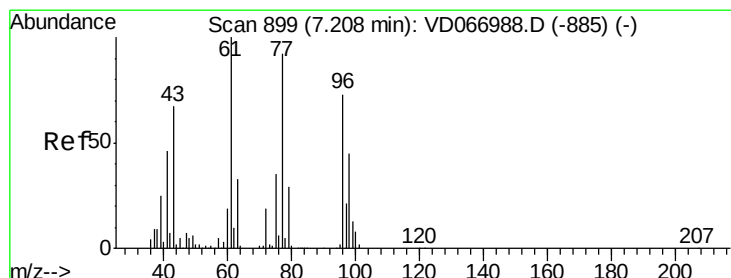
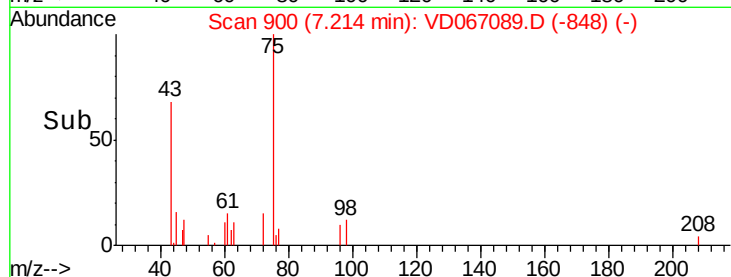
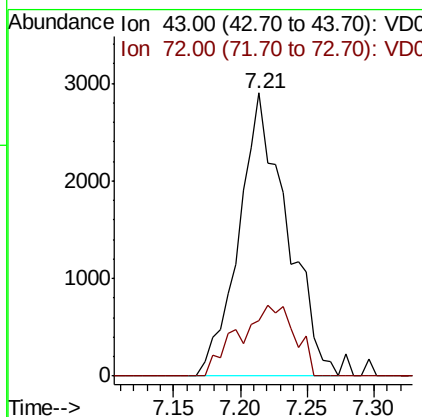
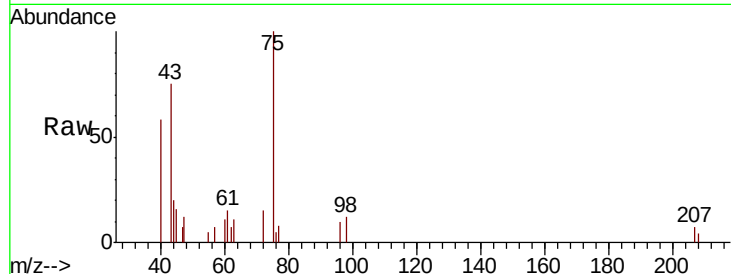




#25
2-Butanone
Concen: 7.273 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

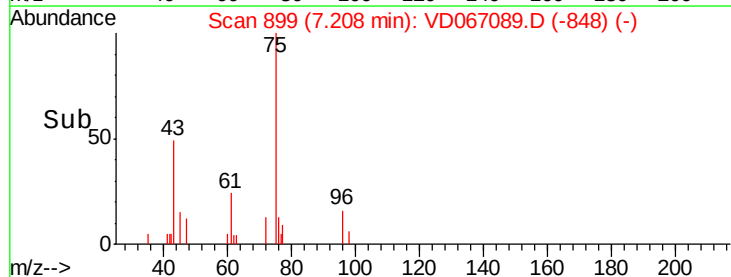
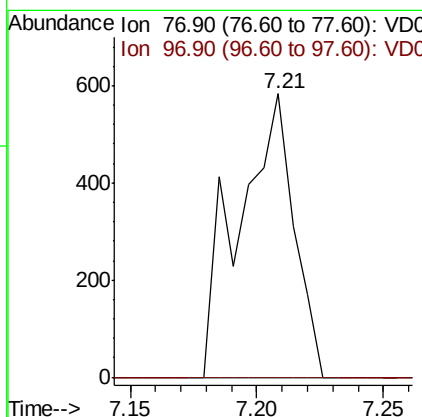
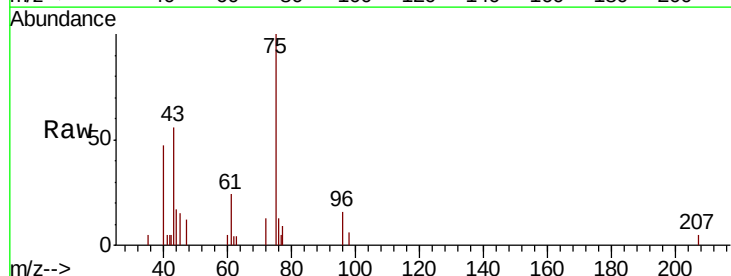
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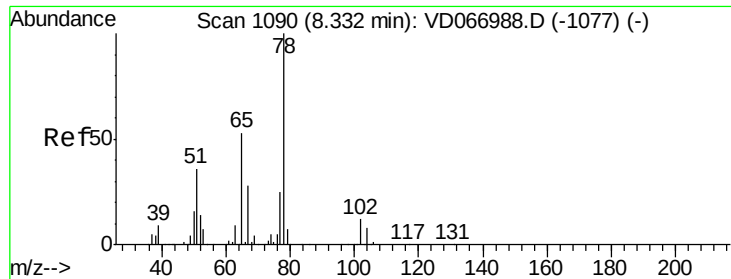
Tot Ion: 43 Resp: 7228
Ion Ratio Lower Upper
43 100
72 19.5 22.8 34.2#



#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

Tgt Ion: 77 Resp: 894
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#

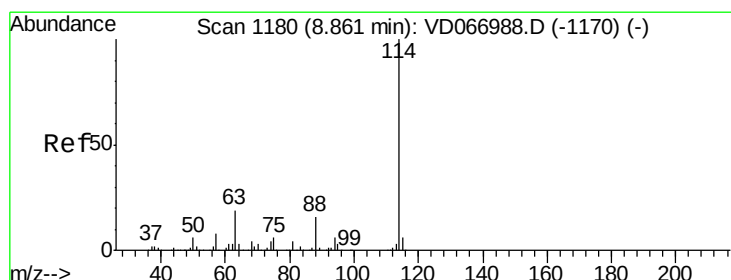
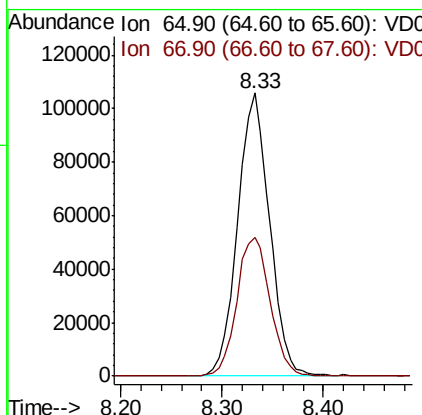
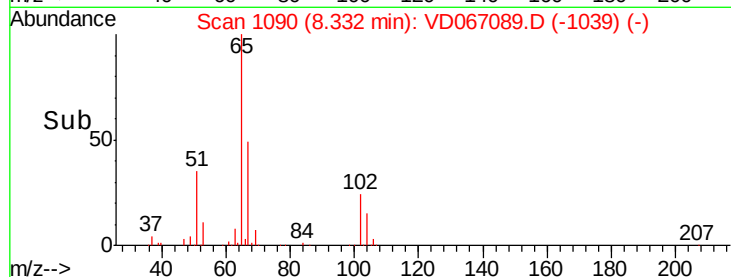
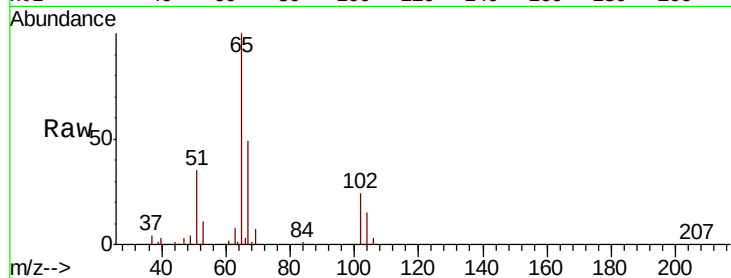




#33
 1,2-Dichloroethane-d4
 Concen: 50.353 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067089.D
 Acq: 05 Oct 2020 17:47

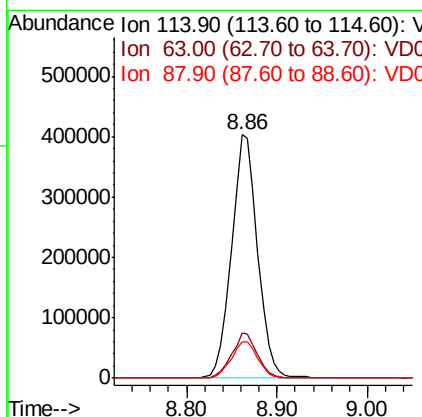
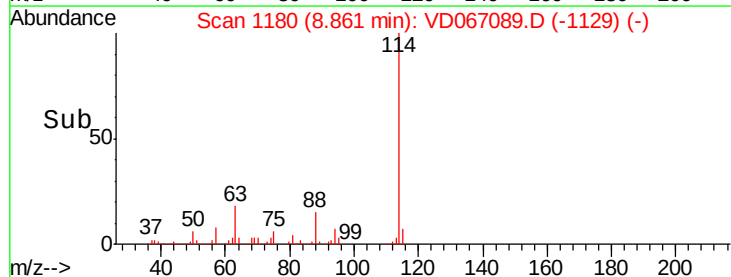
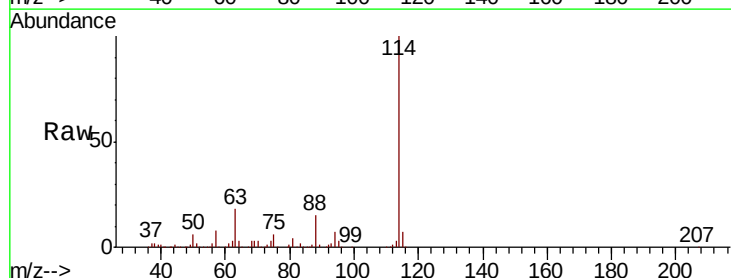
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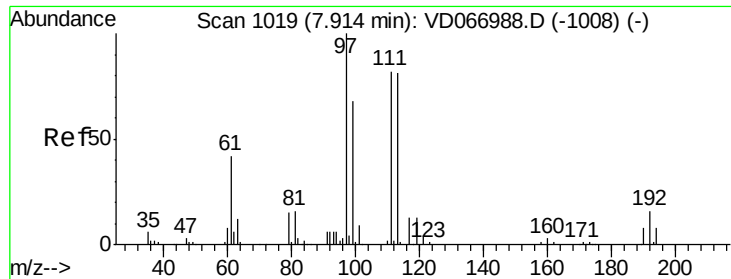
Tot Ion: 65 Resp: 231210
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067089.D
 Acq: 05 Oct 2020 17:47

Tgt Ion: 114 Resp: 804466
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 38.4
 88 14.7 0.0 31.2

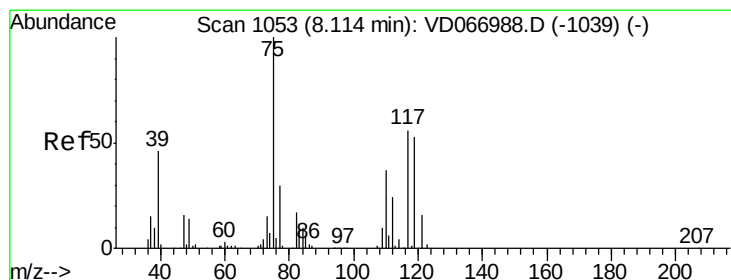
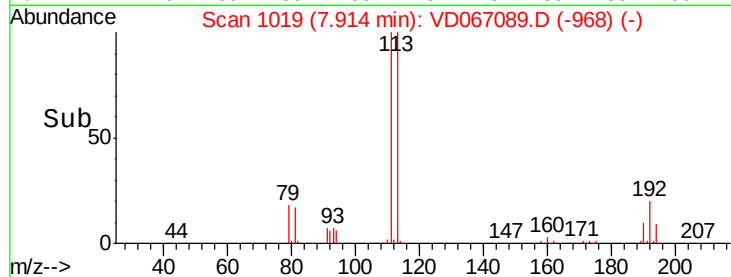
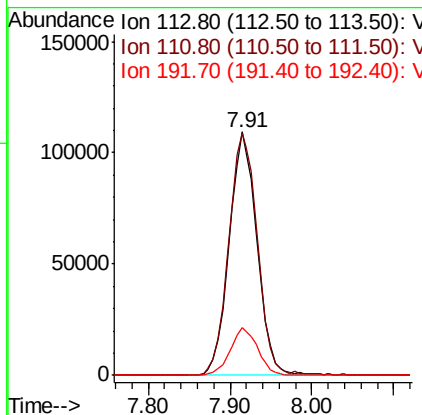
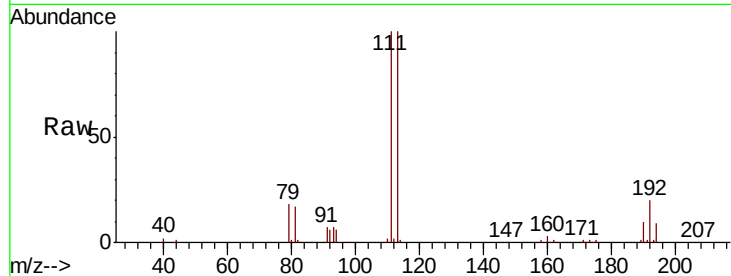




#35
 Dibromofluoromethane
 Concen: 48.977 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067089.D
 Acq: 05 Oct 2020 17:47

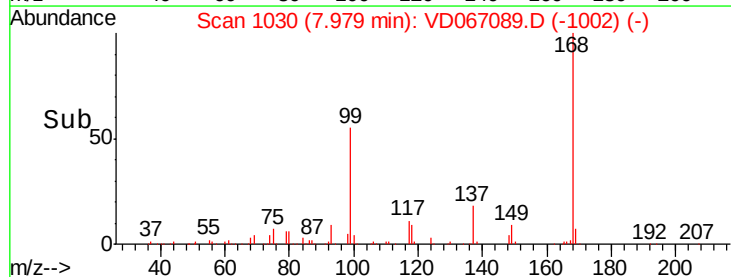
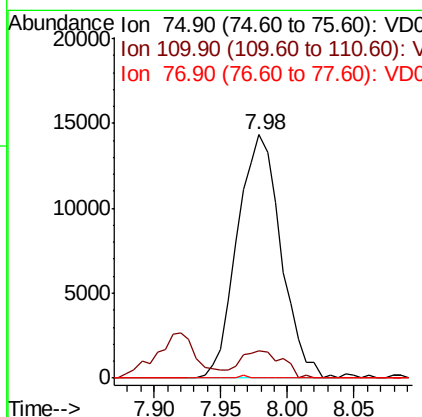
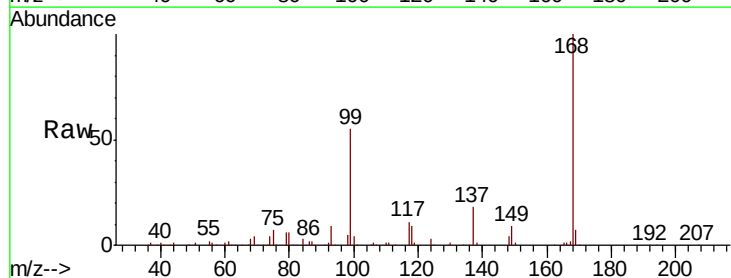
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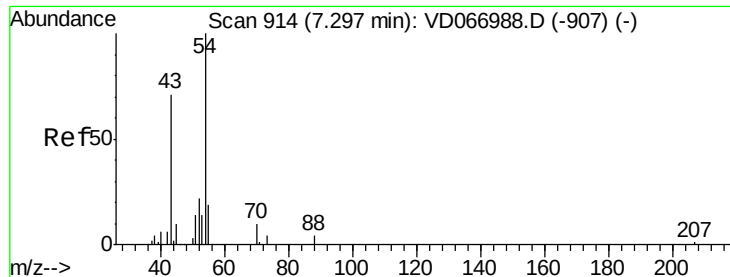
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.0	124.4
192	19.4	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.328 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067089.D
 Acq: 05 Oct 2020 17:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.4	55.0#
77	0.2	24.8	37.2#





#37

Ethyl Acetate

Concen: 2.782 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.08 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

PAV-B24-100120-17-18

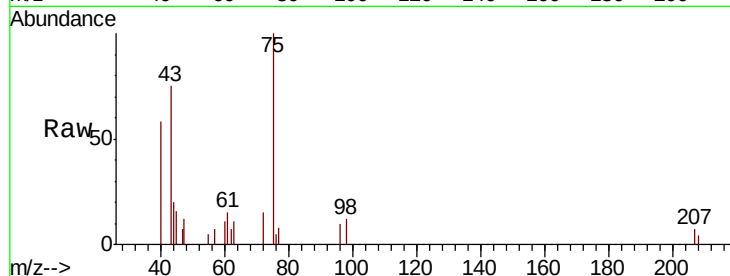
Tot Ion: 43 Resp: 7228

Ion Ratio Lower Upper

43 100

61 26.7 12.5 18.7#

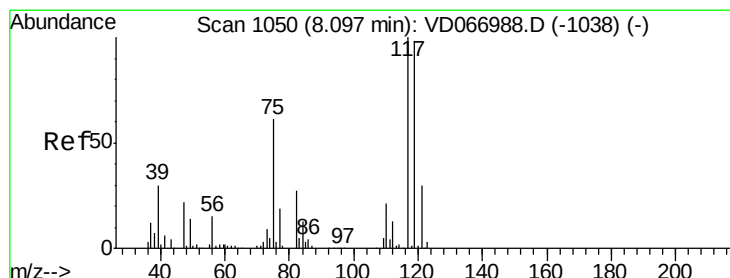
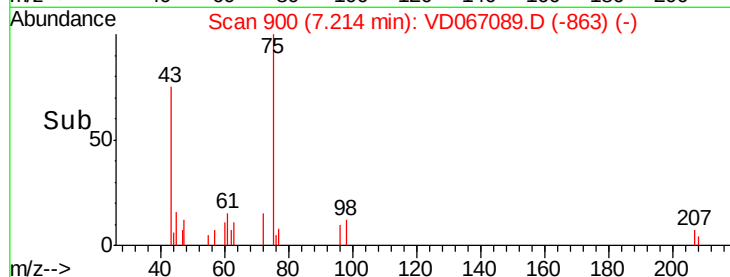
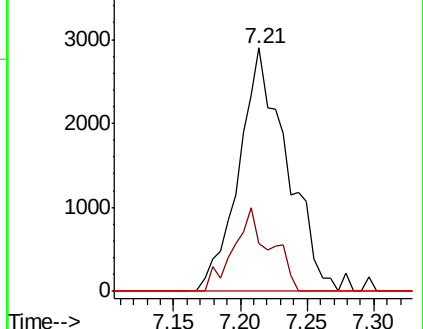
70 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 6.084 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

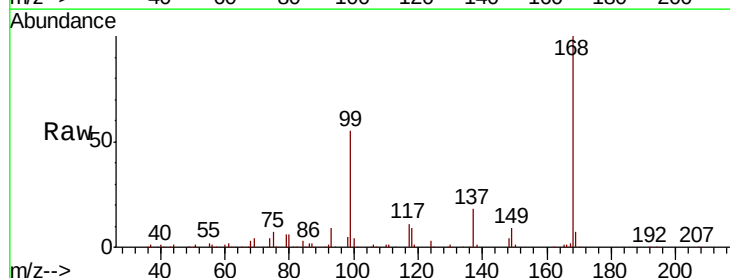
Tgt Ion: 117 Resp: 49365

Ion Ratio Lower Upper

117 100

119 5.0 78.7 118.1#

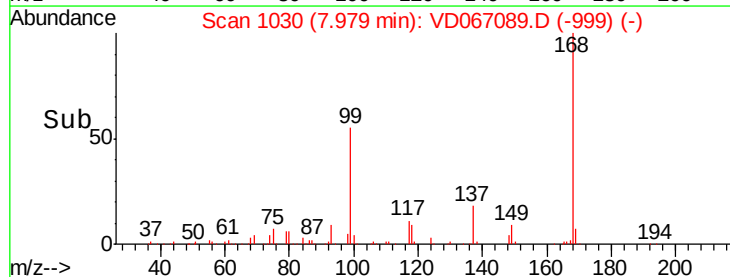
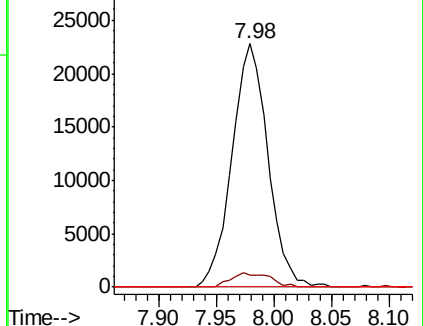
121 0.0 24.2 36.2#

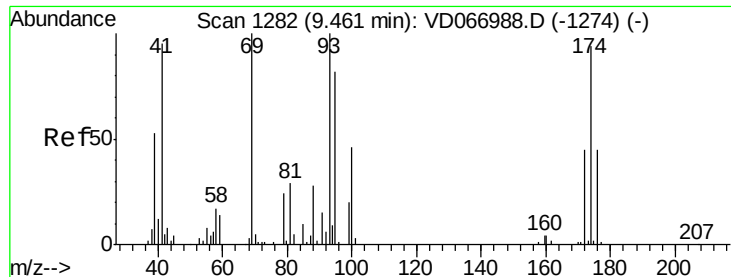


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.840 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

PAV-B24-100120-17-18

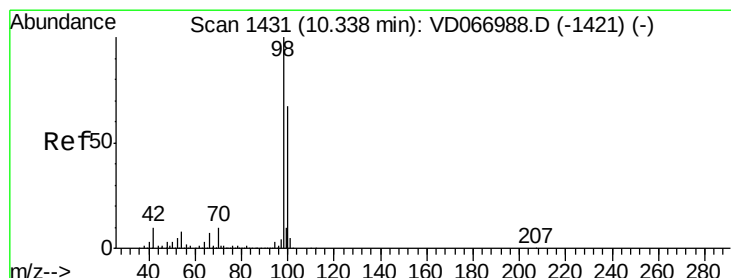
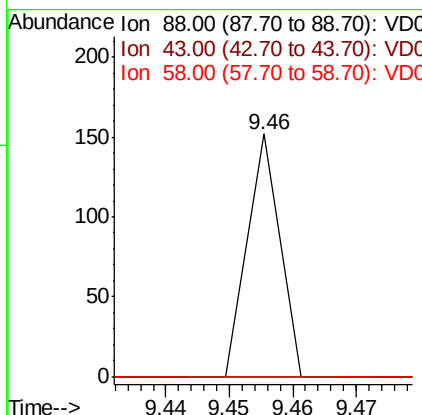
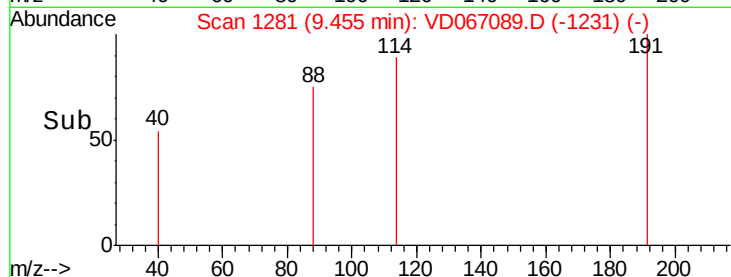
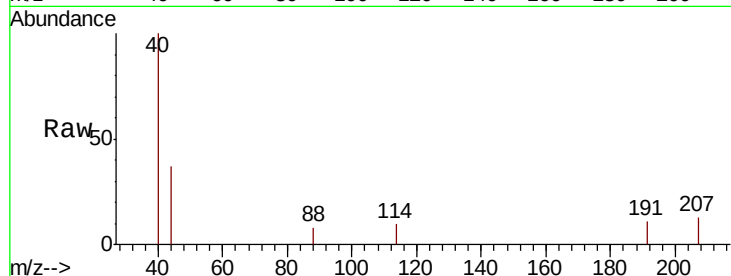
Tot Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 25.6 38.4#

58 0.0 53.5 80.3#



#50

Toluene-d8

Concen: 48.847 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067089.D

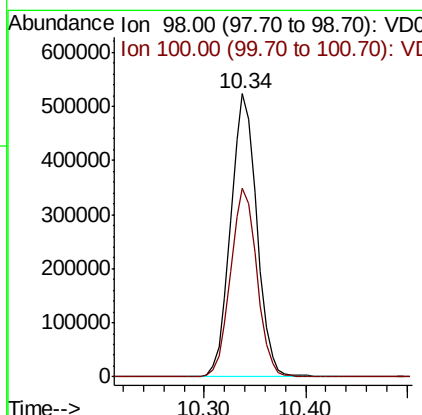
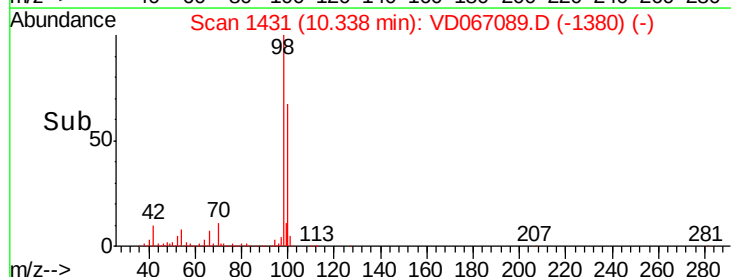
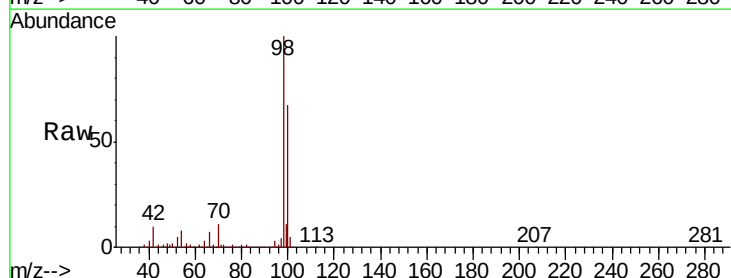
Acq: 05 Oct 2020 17:47

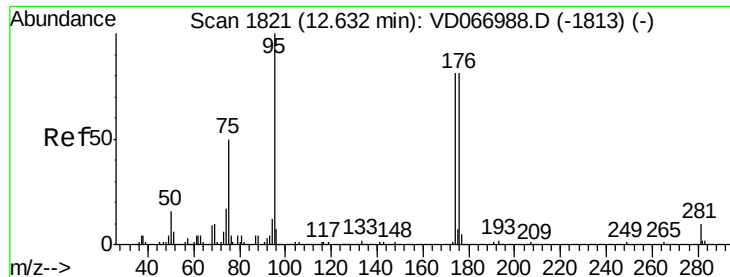
Tgt Ion: 98 Resp: 937433

Ion Ratio Lower Upper

98 100

100 67.1 52.8 79.2

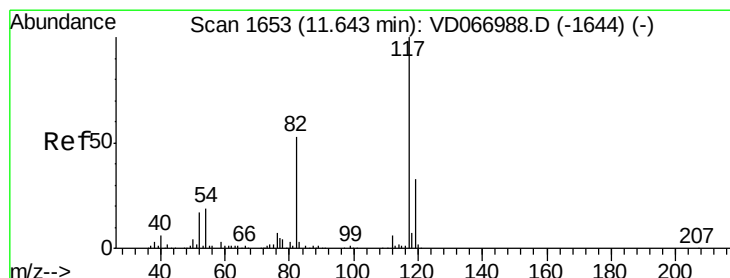
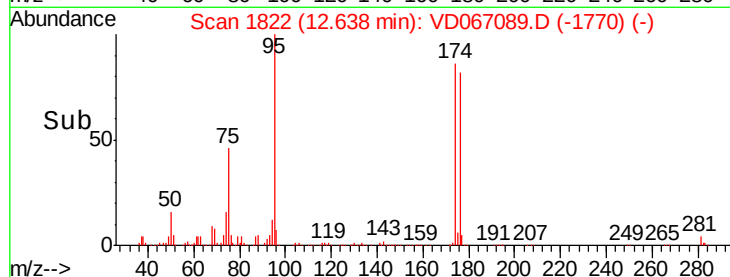
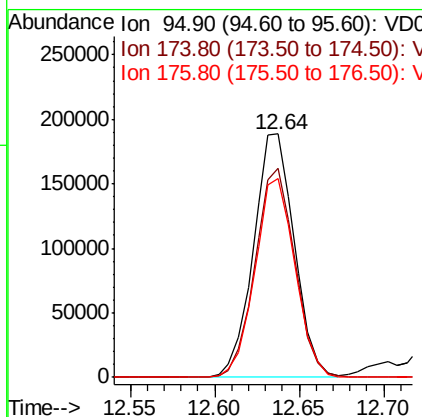
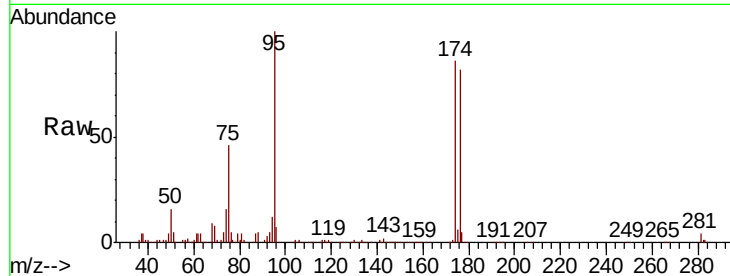




#62
4-Bromofluorobenzene
Concen: 48.751 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

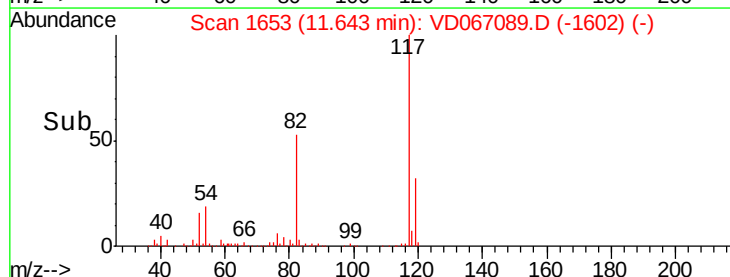
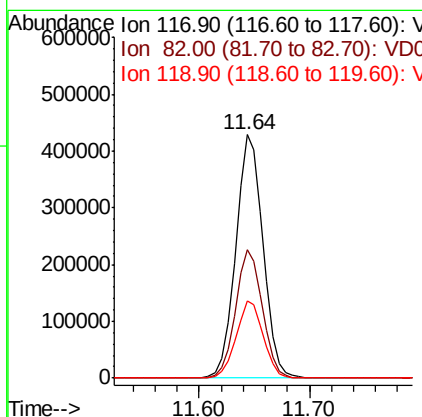
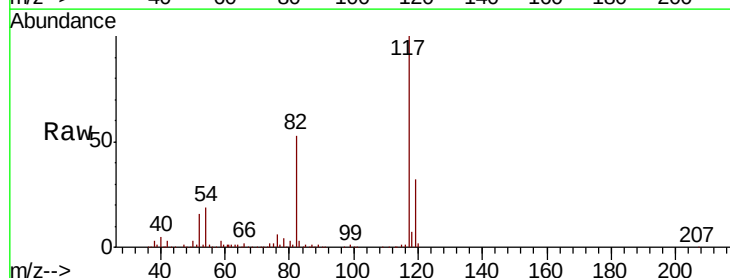
Instrument :
MSVOA_D
ClientSampleId :
PAV-B24-100120-17-18

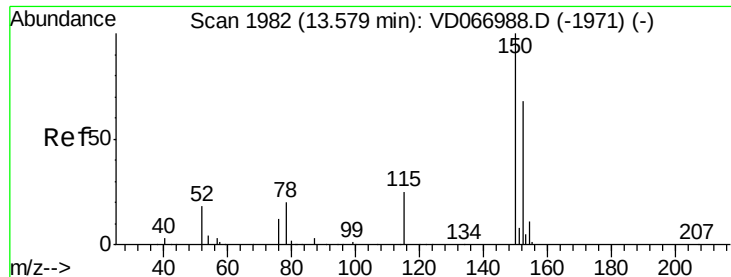
Tot Ion: 95 Resp: 317609
Ion Ratio Lower Upper
95 100
174 83.5 0.0 167.6
176 80.3 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

Tgt Ion: 117 Resp: 741157
Ion Ratio Lower Upper
117 100
82 52.5 42.6 63.8
119 31.6 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

PAV-B24-100120-17-18

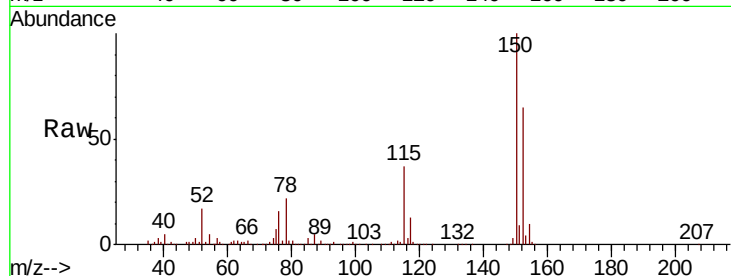
Tot Ion:152 Resp: 334167

Ion Ratio Lower Upper

152 100

115 59.0 29.6 88.8

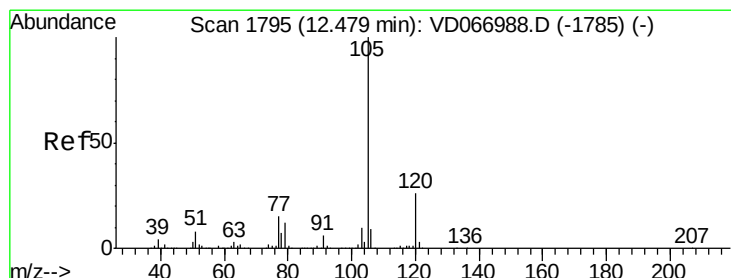
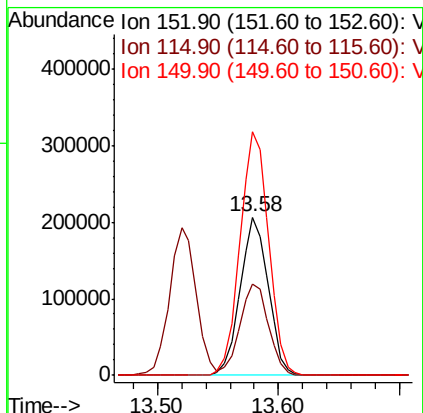
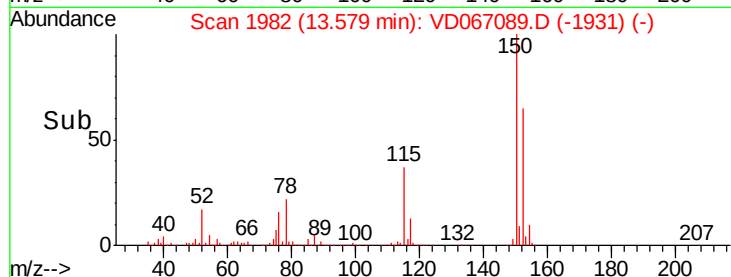
150 157.4 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 50.742 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VD067089.D

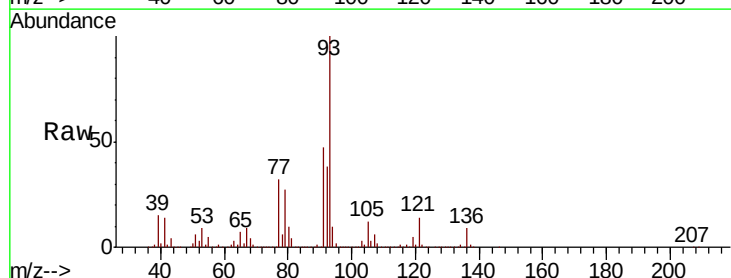
Acq: 05 Oct 2020 17:47

Tgt Ion:105 Resp: 1151347

Ion Ratio Lower Upper

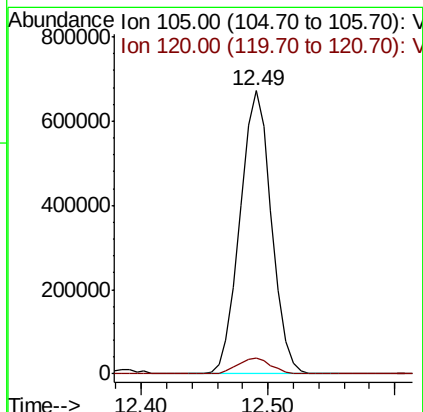
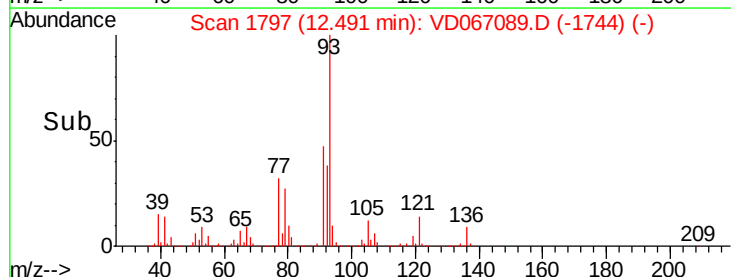
105 100

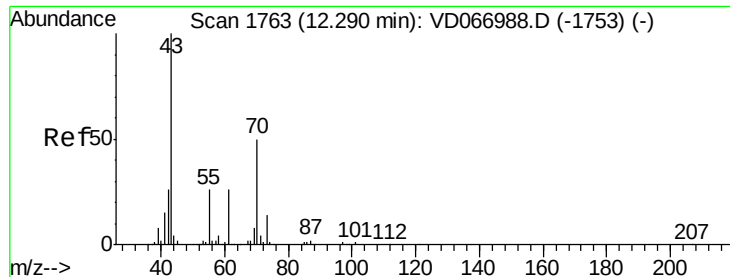
120 6.1 13.3 39.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

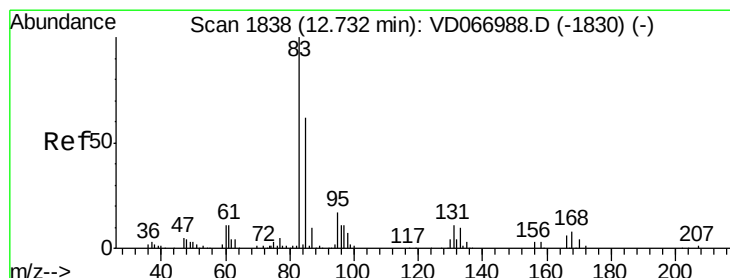
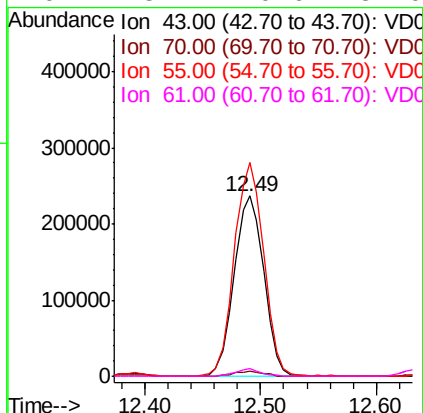
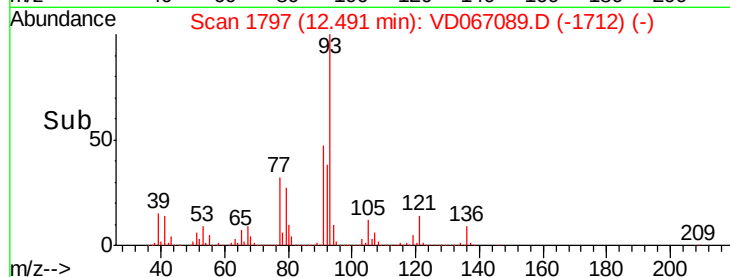
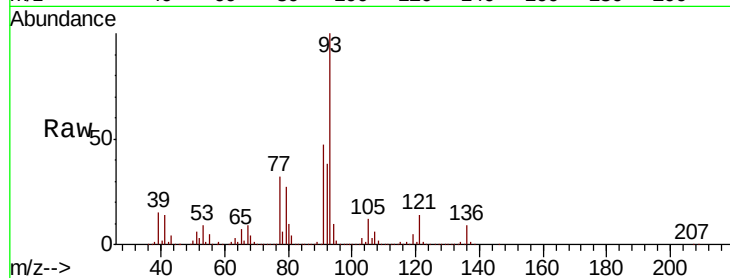




#74
N-amvl acetate
Concen: 103.288 ug/l
RT: 12.49 min Scan# 1797
Delta R.T. 0.20 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

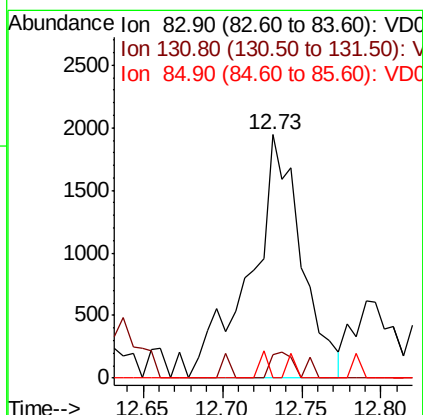
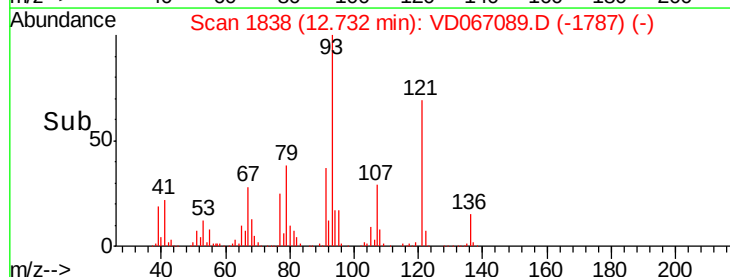
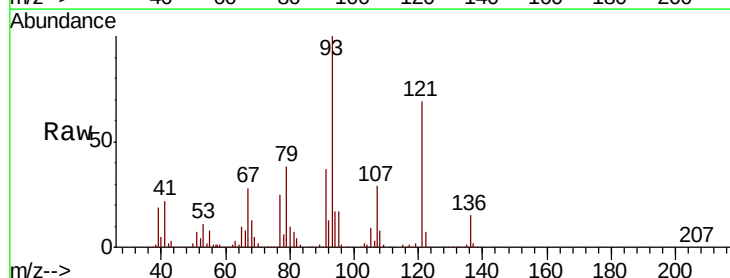
Instrument :
MSVOA_D
ClientSampleId :
PAV-B24-100120-17-18

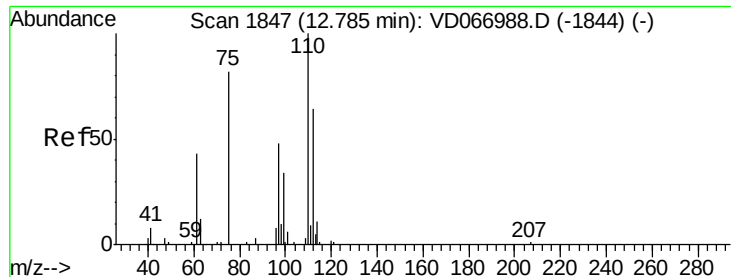
Tot Ion: 43 Resp: 421311
Ion Ratio Lower Upper
43 100
70 2.7 38.2 57.2#
55 117.4 22.4 33.6#
61 3.4 20.6 31.0#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.139 ug/l
RT: 12.73 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VD067089.D
Acq: 05 Oct 2020 17:47

Tgt Ion: 83 Resp: 4356
Ion Ratio Lower Upper
83 100
131 5.9 5.7 17.0
85 0.0 32.0 96.2#





#76

1,2,3-Trichloropropane

Concen: 52.193 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

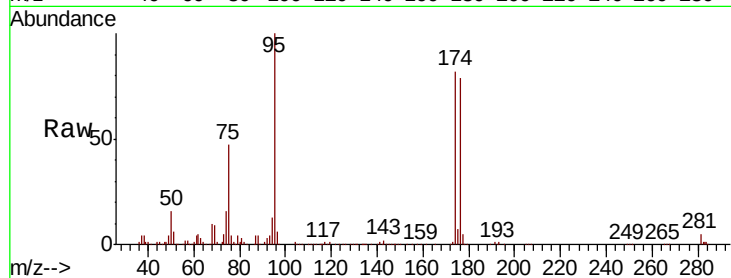
PAV-B24-100120-17-18

Tot Ion: 75 Resp: 151919

Ion Ratio Lower Upper

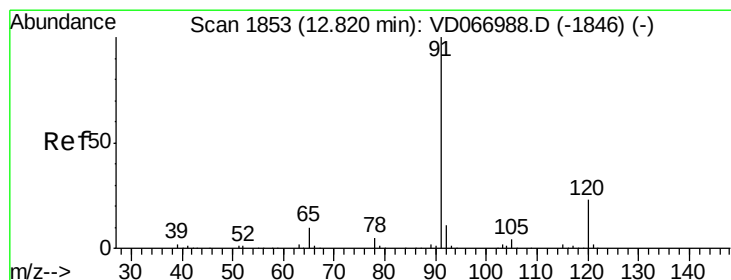
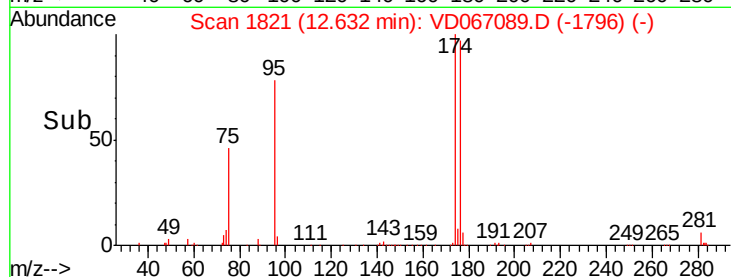
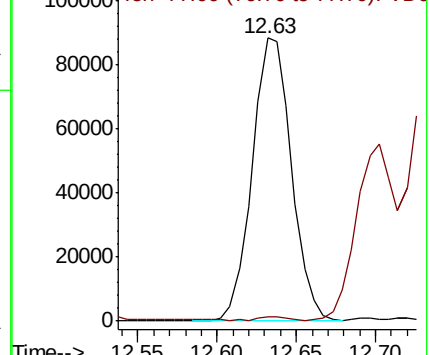
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#78

n-propylbenzene

Concen: 10.332 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.08 min

Lab File: VD067089.D

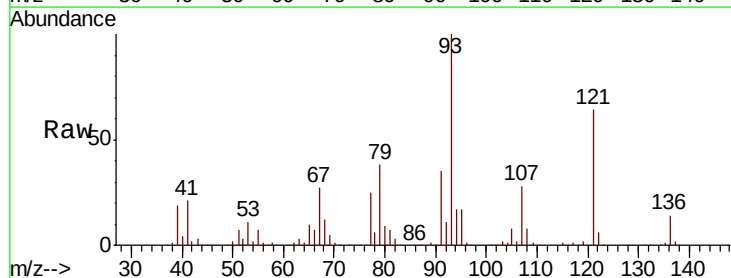
Acq: 05 Oct 2020 17:47

Tgt Ion: 91 Resp: 277070

Ion Ratio Lower Upper

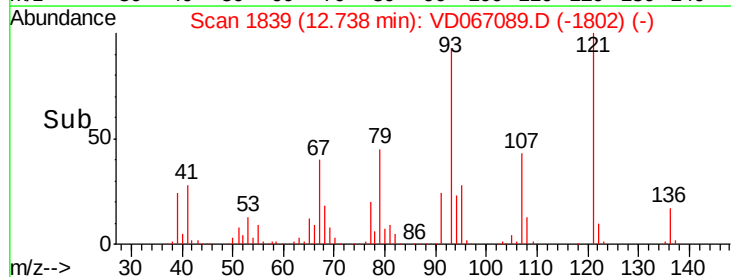
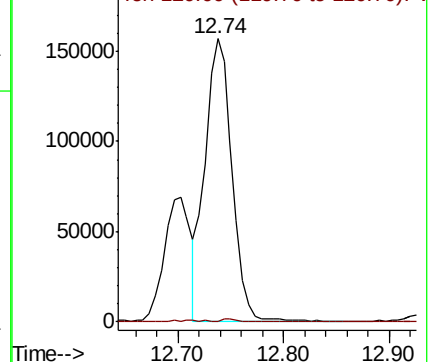
91 100

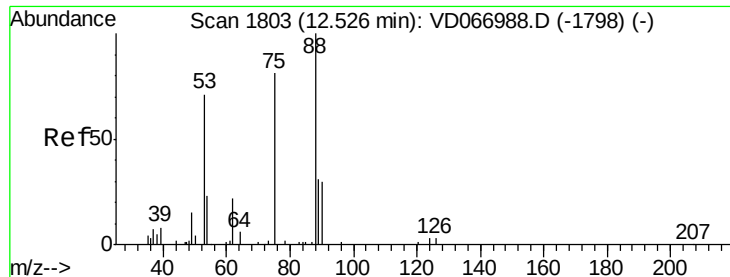
120 0.7 11.6 34.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 30.405 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. -0.04 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

PAV-B24-100120-17-18

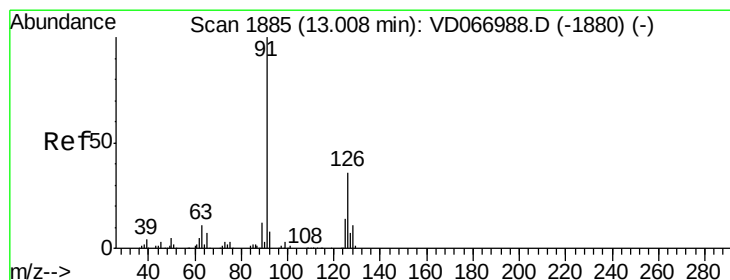
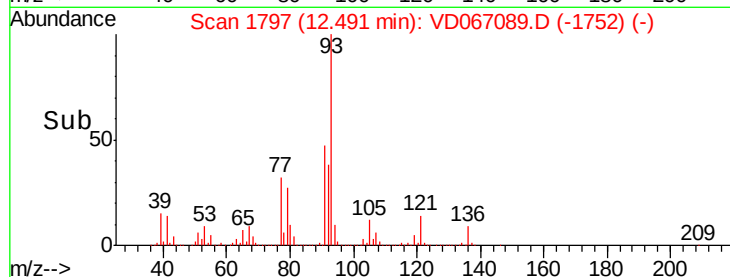
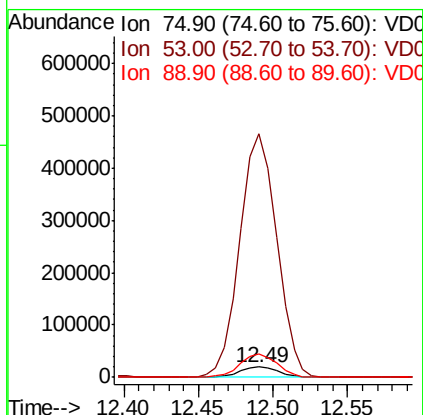
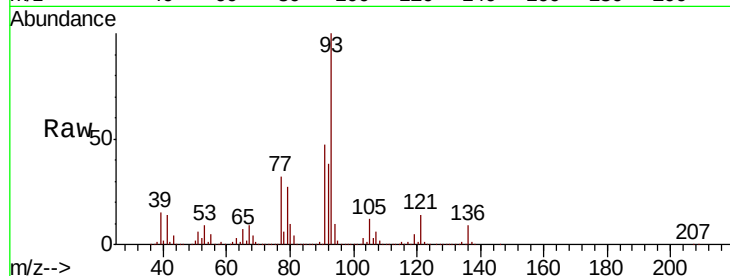
Tot Ion: 75 Resp: 35498

Ion Ratio Lower Upper

75 100

53 2270.1 73.8 110.6#

89 221.8 38.9 58.3#



#82

4-Chlorotoluene

Concen: 4.219 ug/l

RT: 13.05 min Scan# 1892

Delta R.T. 0.04 min

Lab File: VD067089.D

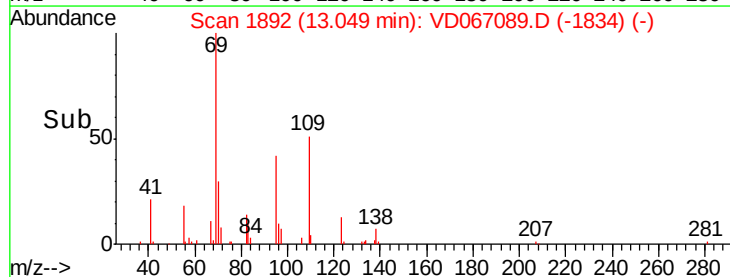
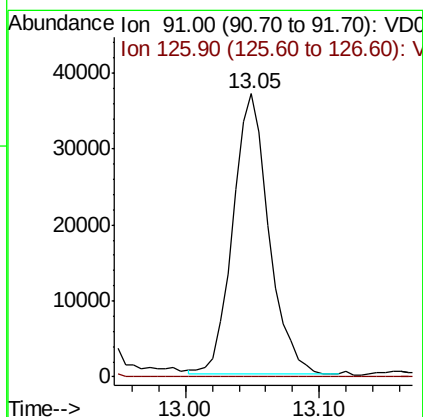
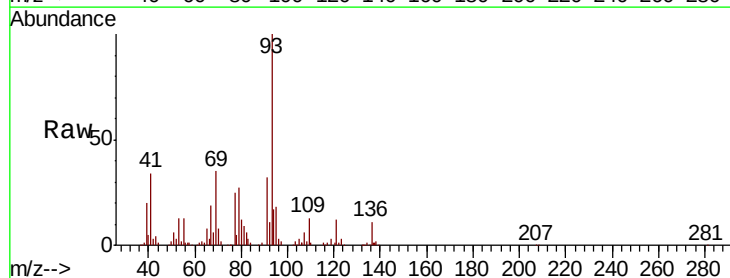
Acq: 05 Oct 2020 17:47

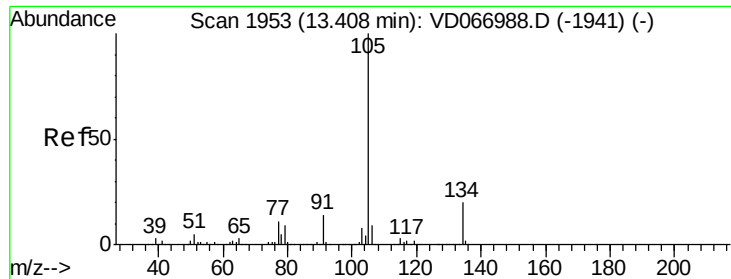
Tgt Ion: 91 Resp: 68872

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.5#





#85

sec-Butylbenzene

Concen: 6.941 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.11 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

Instrument :

MSVOA_D

ClientSampleId :

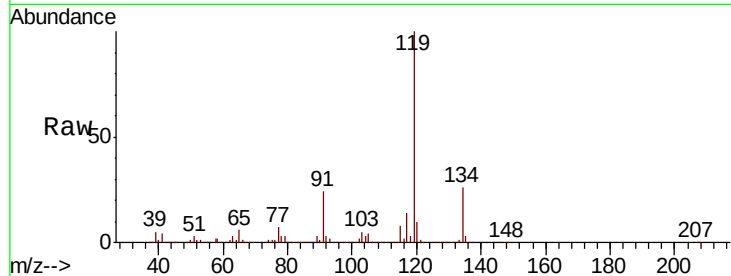
PAV-B24-100120-17-18

Tot Ion:105 Resp: 157788

Ion Ratio Lower Upper

105 100

134 657.3 10.3 30.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

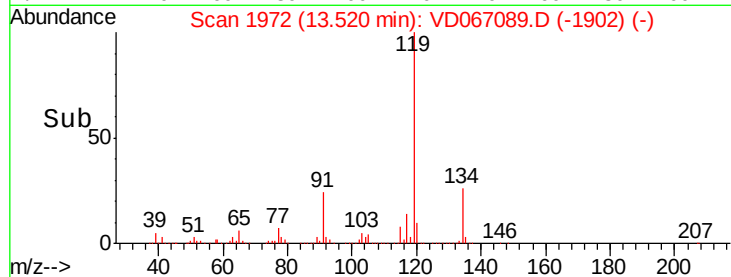
600000

400000

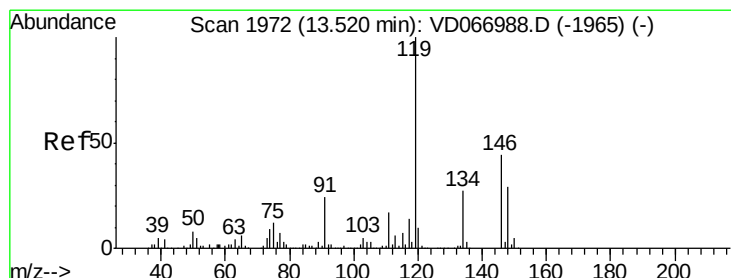
200000

0

13.40 13.50 13.60



Time-->



#86

p-Isopropyltoluene

Concen: 188.838 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD067089.D

Acq: 05 Oct 2020 17:47

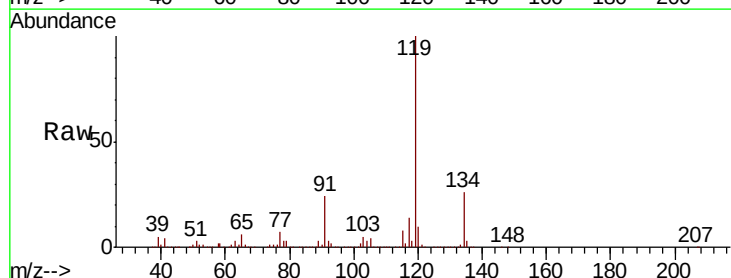
Tgt Ion:119 Resp: 3980174

Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 24.2 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

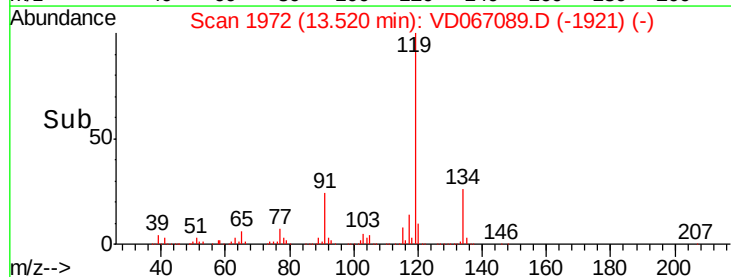
3000000

2000000

1000000

0

13.40 13.50 13.60



Time-->