

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092420\
 Data File : VD066856.D
 Acq On : 24 Sep 2020 17:33
 Operator : VA/SY
 Sample : L4127-01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-3(9-11)

Quant Time: Sep 25 01:10:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

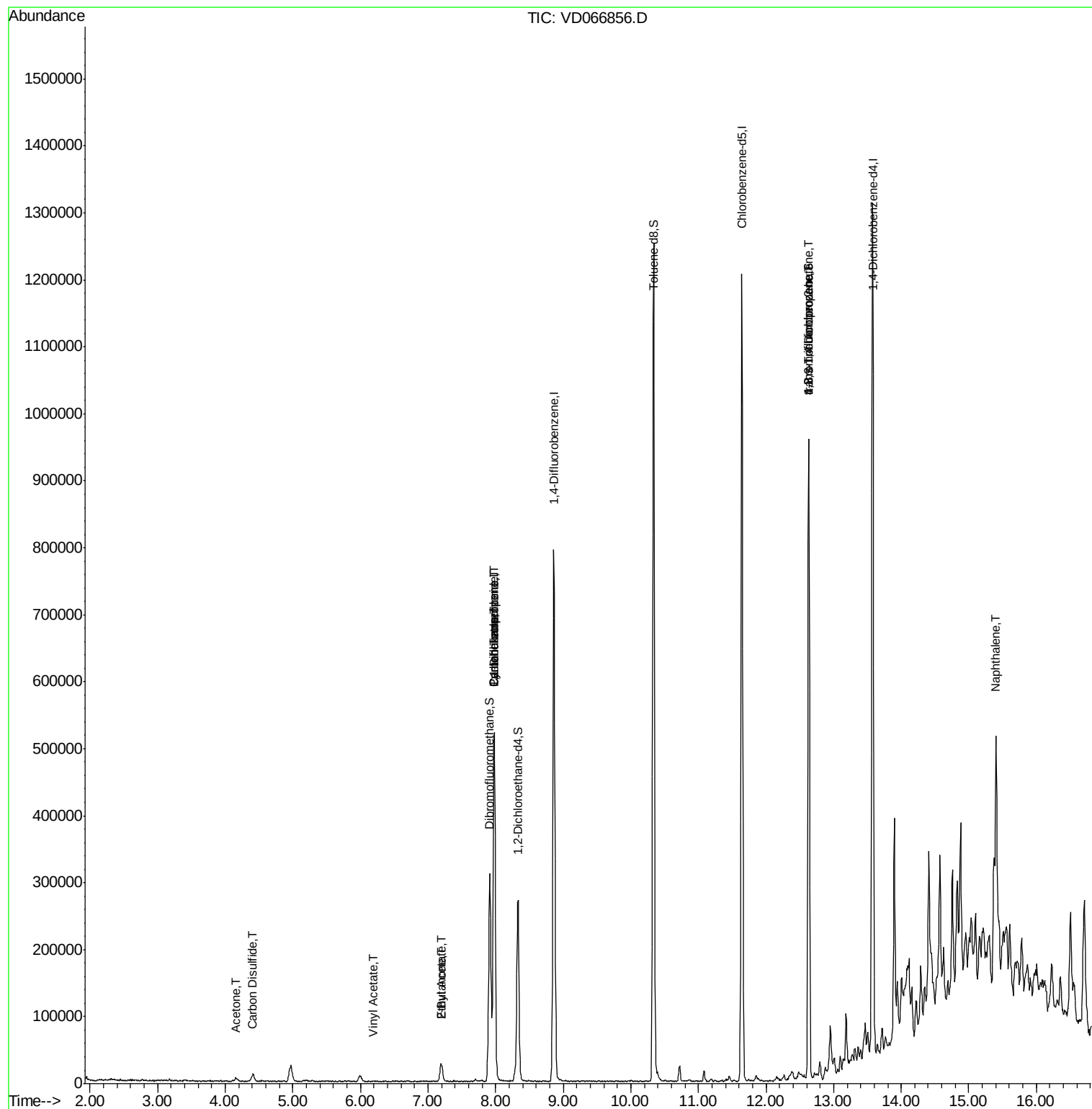
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	380571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	678611	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	688996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	344132	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	213712	57.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.74%	
35) Dibromofluoromethane	7.91	113	225154	52.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.30%	
50) Toluene-d8	10.34	98	830161	56.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.88%	
62) 4-Bromofluorobenzene	12.63	95	304022	60.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	120.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	55	Below Cal	#	1
11) Tert butyl alcohol	5.21	59	560	Below Cal		97
16) Acetone	4.16	43	7811	9.885 ug/l	#	74
17) Carbon Disulfide	4.41	76	22110	1.941 ug/l		95
18) Methyl Acetate	4.71	43	55	Below Cal	#	50
20) Methylene Chloride	4.97	84	18330	Below Cal		88
23) Vinyl Acetate	6.18	43	74	2.684 ug/l	#	71
25) 2-Butanone	7.20	43	3078	3.241 ug/l	#	46
31) Cyclohexane	7.98	56	9311	1.375 ug/l	#	12
36) 1,1-Dichloropropene	7.98	75	31236	4.640 ug/l	#	51
37) Ethyl Acetate	7.20	43	3078	1.265 ug/l	#	44
38) Carbon Tetrachloride	7.98	117	39964	5.430 ug/l	#	17
49) 1,4-Dioxane	9.46	88	175	Below Cal	#	23
76) 1,2,3-Trichloropropane	12.63	75	157981	55.395 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.63	75	157981	138.594 ug/l	#	10
95) Naphthalene	15.40	128	320445	30.509 ug/l		99

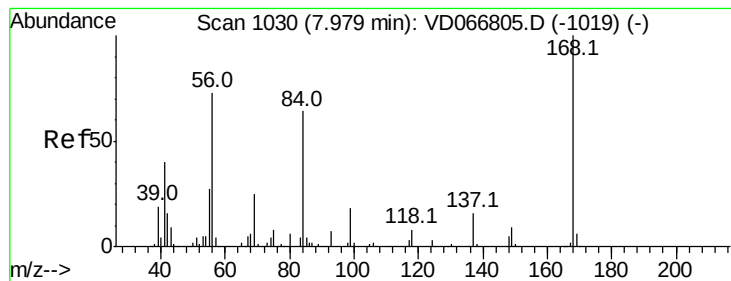
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

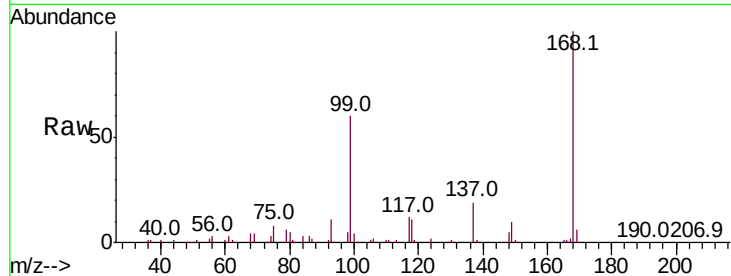
B-3(9-11)

Tot Ion:168 Resp: 380571

Ion Ratio Lower Upper

168 100

99 60.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

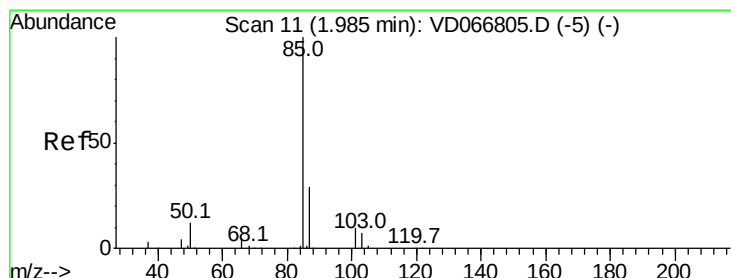
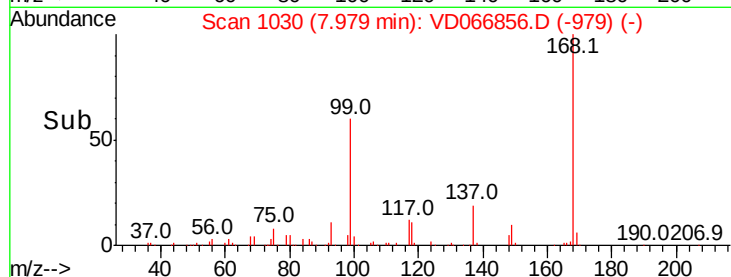
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066856.D

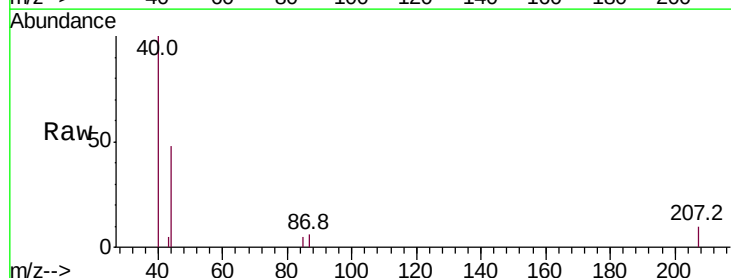
Acq: 24 Sep 2020 17:33

Tgt Ion: 85 Resp: 55

Ion Ratio Lower Upper

85 100

87 127.1 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

200

150

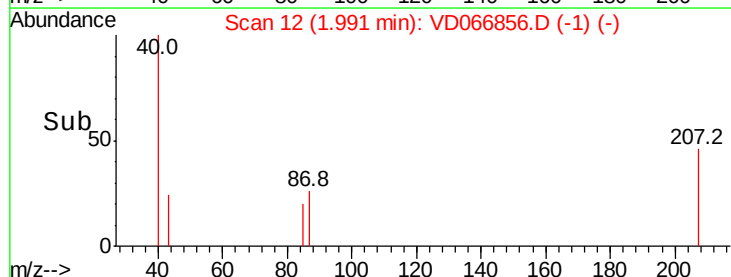
100

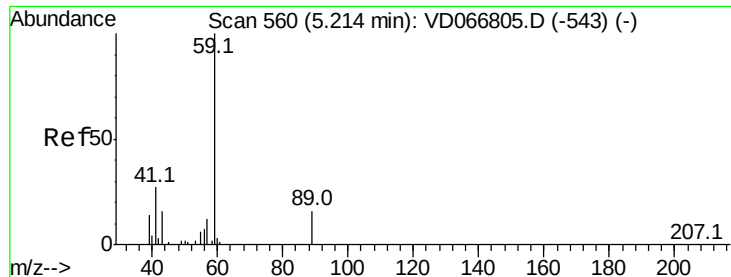
50

0

Time-->

1.97 1.98 1.99 2.00 2.01

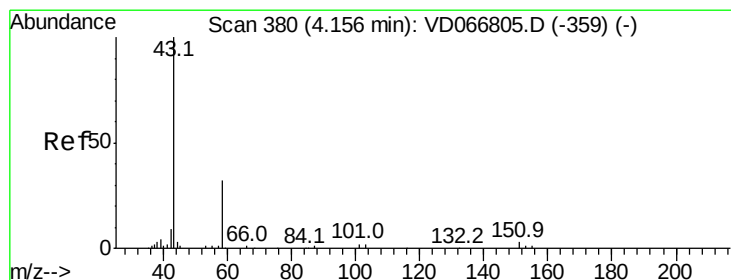
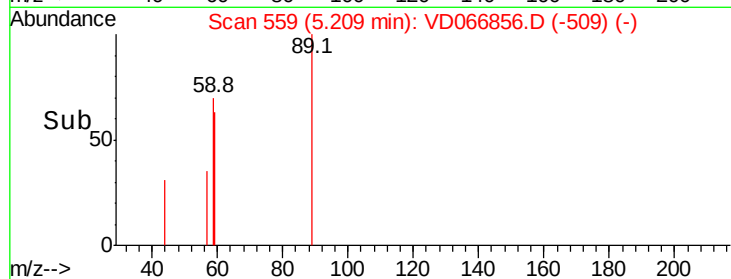
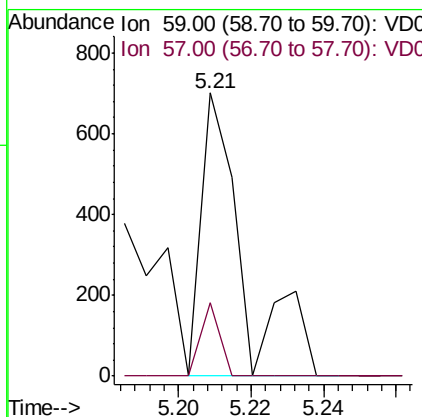
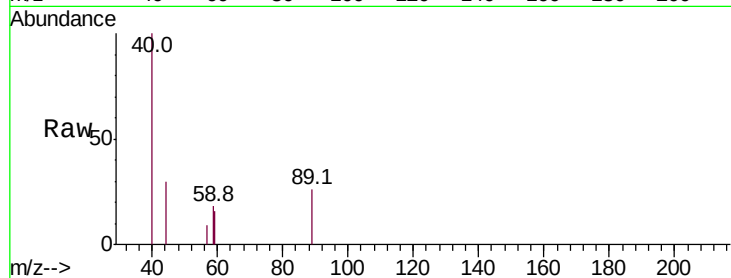




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.21 min Scan# 559
Delta R.T. -0.01 min
Lab File: VD066856.D
Acq: 24 Sep 2020 17:33

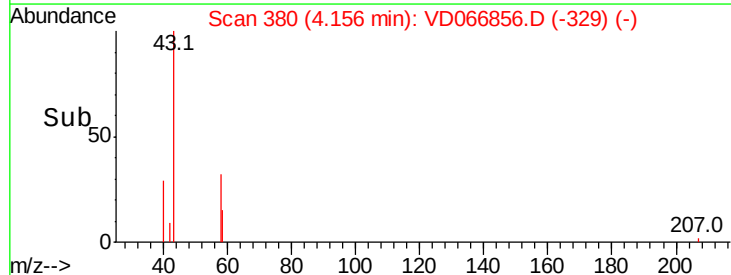
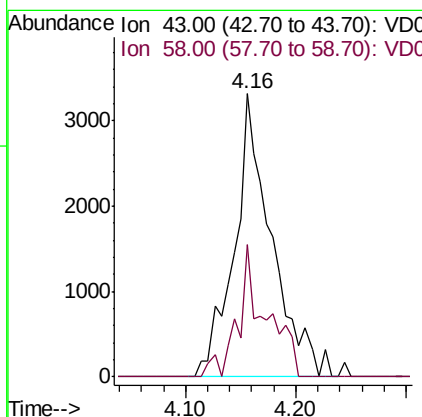
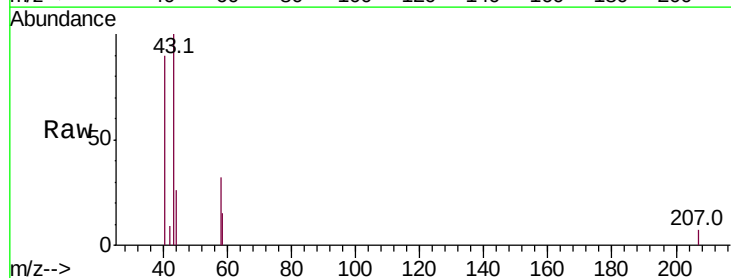
Instrument :
MSVOA_D
ClientSampleId :
B-3(9-11)

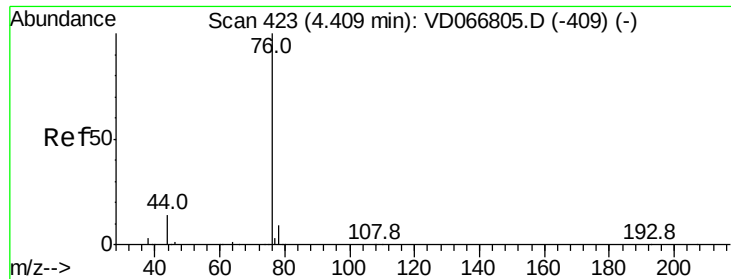
Tot Ion: 59 Resp: 560
Ion Ratio Lower Upper
59 100
57 11.6 8.3 12.5



#16
Acetone
Concen: 9.885 ug/l
RT: 4.16 min Scan# 380
Delta R.T. 0.00 min
Lab File: VD066856.D
Acq: 24 Sep 2020 17:33

Tgt Ion: 43 Resp: 7811
Ion Ratio Lower Upper
43 100
58 46.7 25.6 38.4#





#17

Carbon Disulfide

Concen: 1.941 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

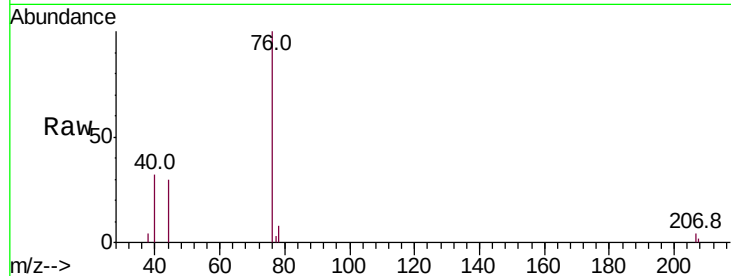
B-3(9-11)

Tot Ion: 76 Resp: 22110

Ion Ratio Lower Upper

76 100

78 7.7 7.6 11.4



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.41

8000

6000

4000

2000

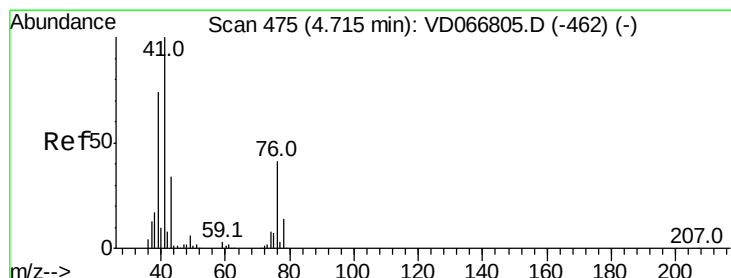
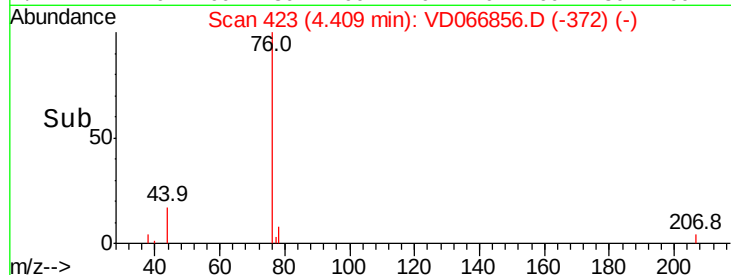
0

Time-->

4.30

4.40

4.50



#18

Methyl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD066856.D

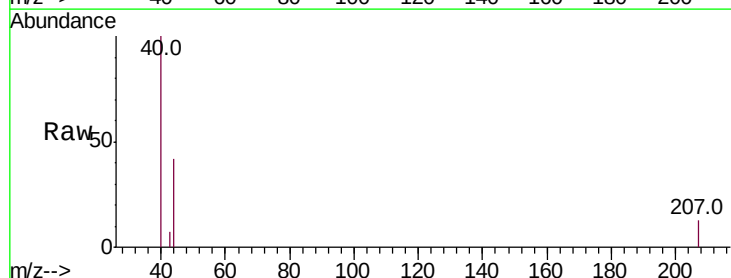
Acq: 24 Sep 2020 17:33

Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.71

150

100

50

0

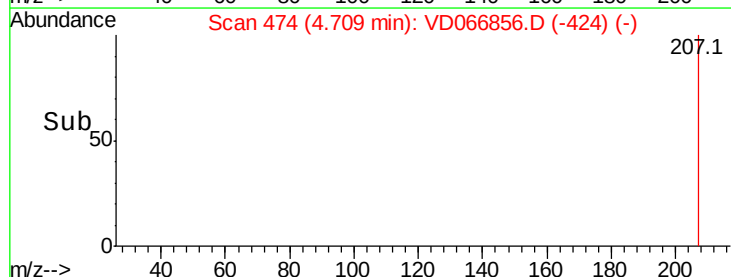
Time-->

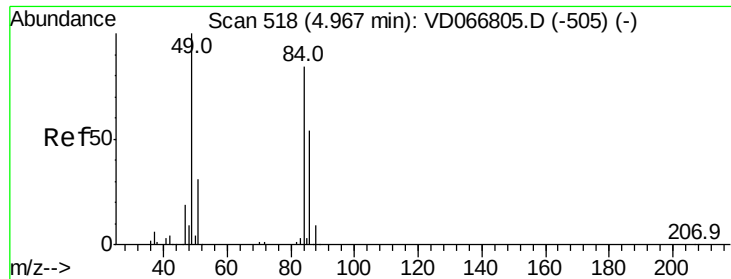
4.69

4.70

4.71

4.72

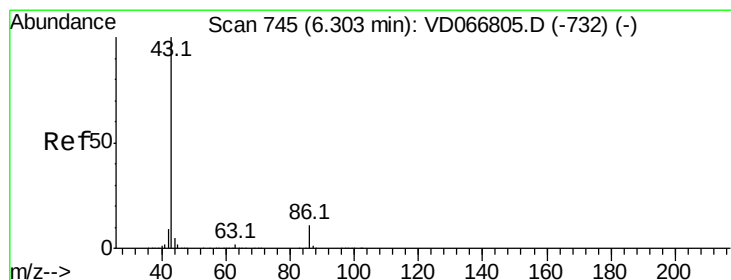
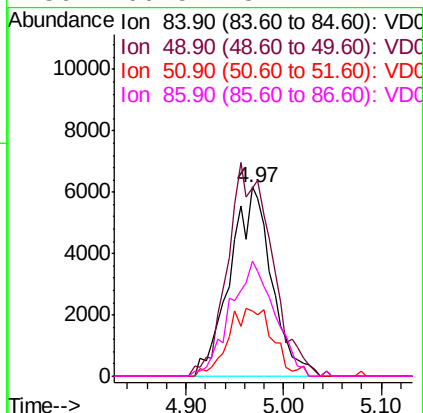
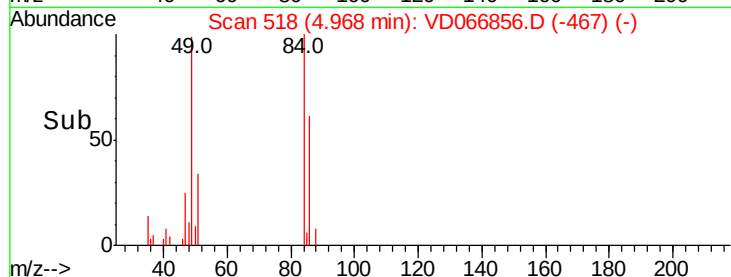
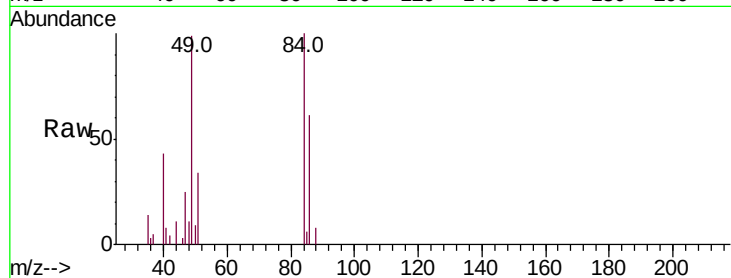




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066856.D
Acq: 24 Sep 2020 17:33

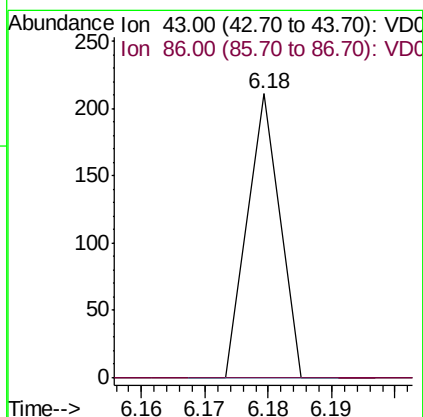
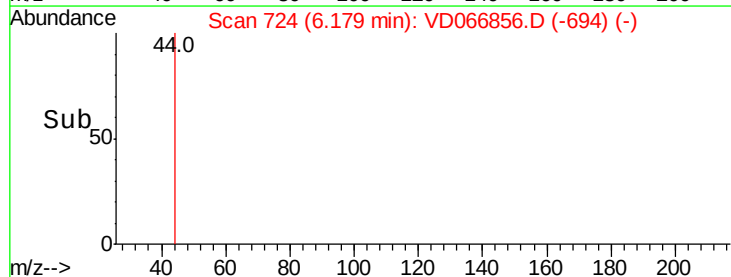
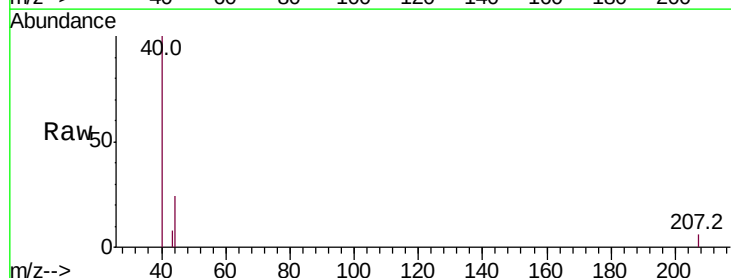
Instrument :
MSVOA_D
ClientSampleId :
B-3(9-11)

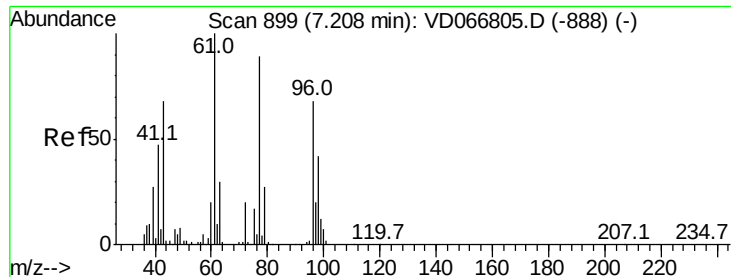
Tot Ion:	84	Resp:	18330
Ion	Ratio	Lower	Upper
84	100		
49	99.1	95.4	143.2
51	34.5	29.7	44.5
86	60.5	51.4	77.2



#23
Vinyl Acetate
Concen: 2.684 ug/l
RT: 6.18 min Scan# 724
Delta R.T. -0.12 min
Lab File: VD066856.D
Acq: 24 Sep 2020 17:33

Tgt Ion:	43	Resp:	74
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.9	13.3#





#25

2-Butanone

Concen: 3.241 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

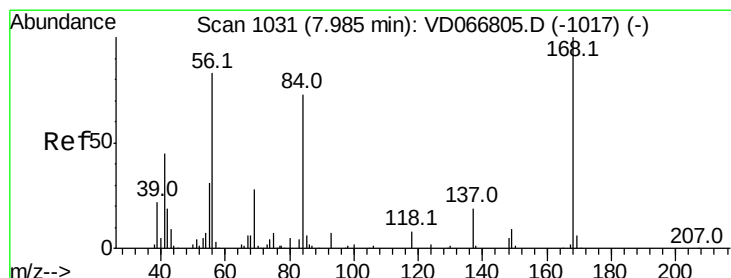
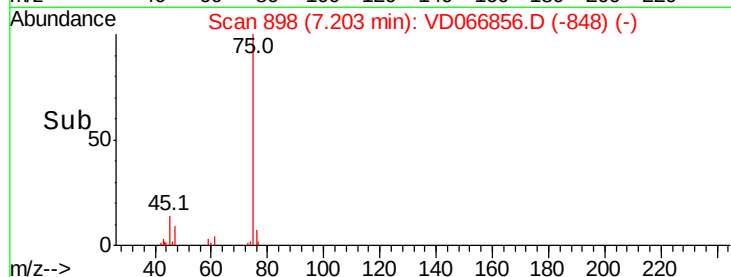
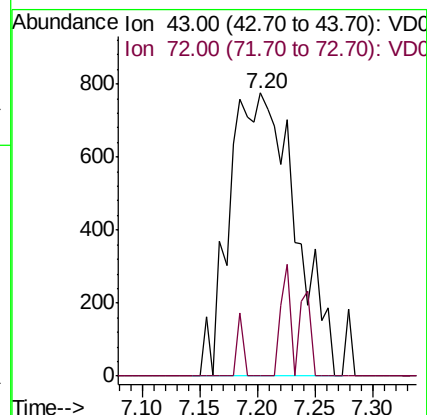
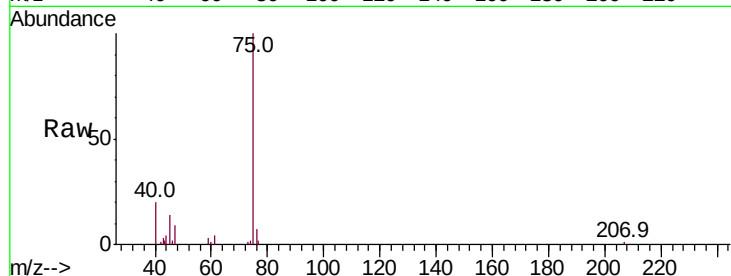
B-3(9-11)

Tot Ion: 43 Resp: 3078

Ion Ratio Lower Upper

43 100

72 0.0 22.9 34.3#



#31

Cyclohexane

Concen: 1.375 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

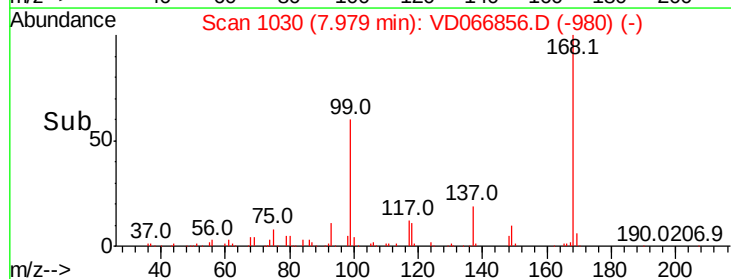
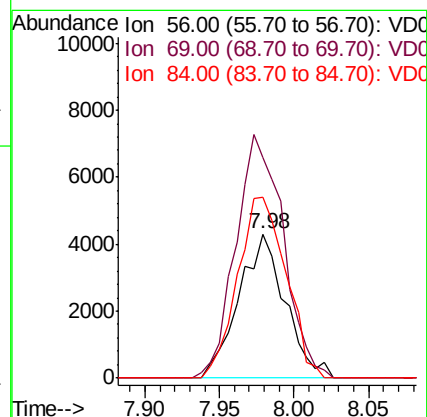
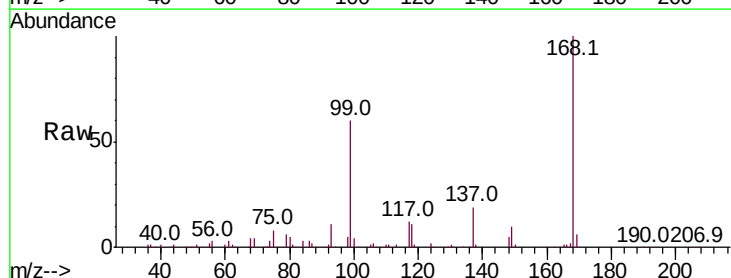
Tgt Ion: 56 Resp: 9311

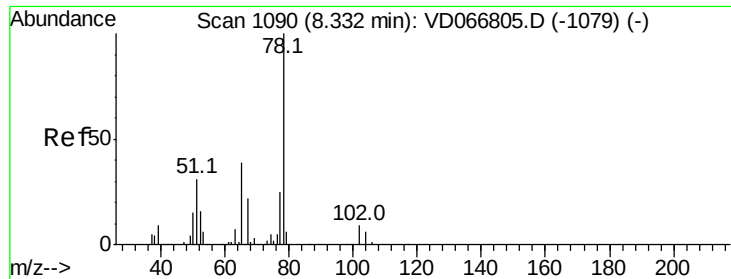
Ion Ratio Lower Upper

56 100

69 152.9 27.0 40.4#

84 125.9 70.2 105.4#





#33

1,2-Dichloroethane-d4

Concen: 57.374 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

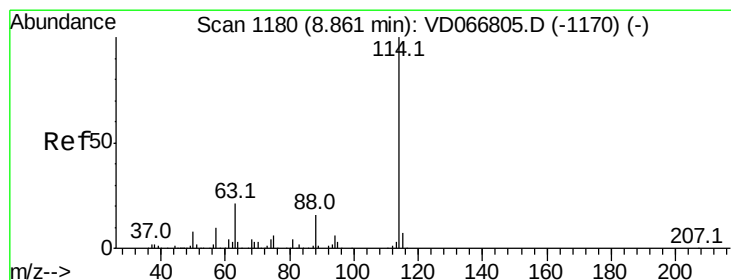
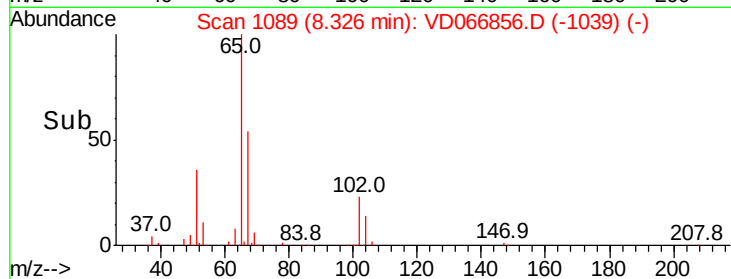
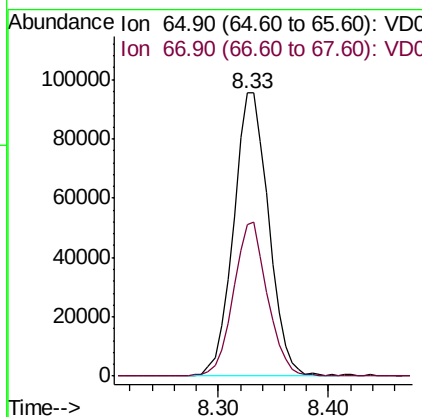
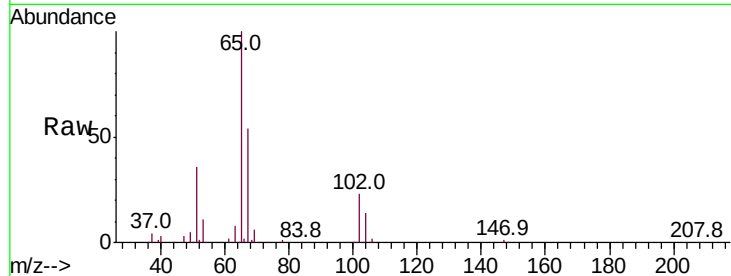
Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :
MSVOA_D
ClientSampleId :
B-3(9-11)

Tot Ion: 65 Resp: 213712

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

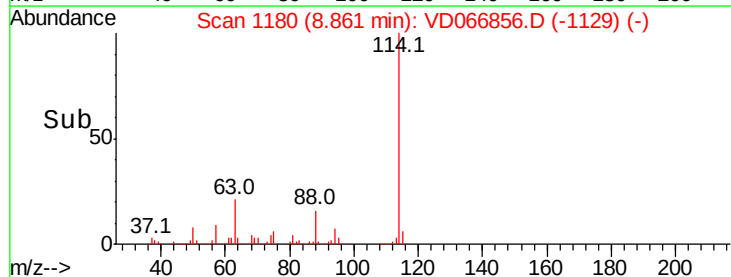
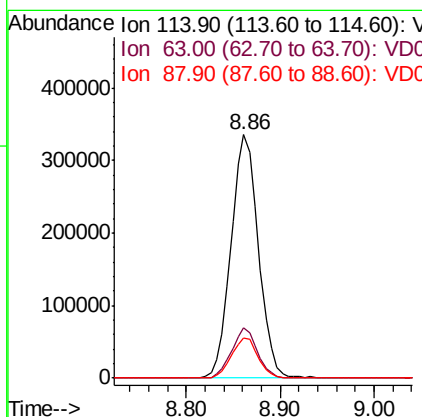
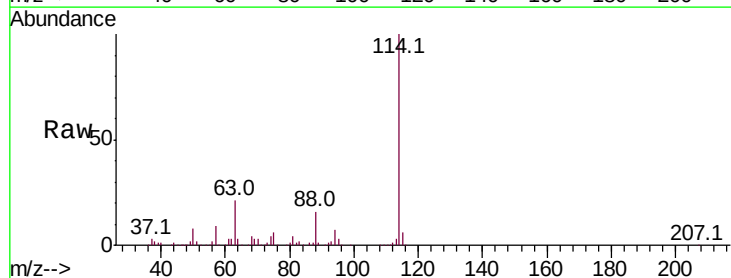
Delta R.T. 0.00 min

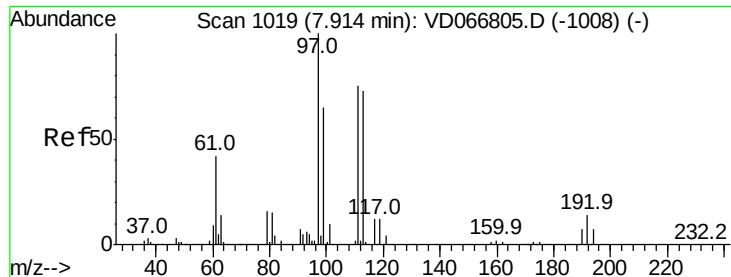
Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Tgt Ion: 114 Resp: 678611

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.6
88	16.4	0.0	32.6

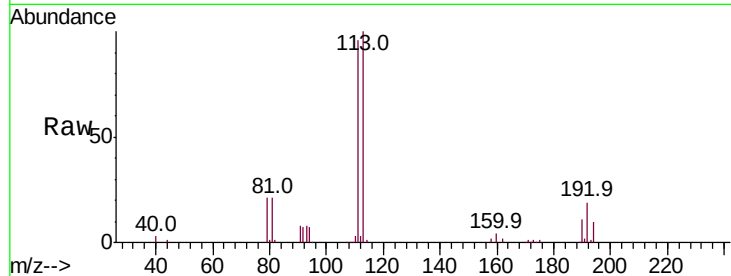




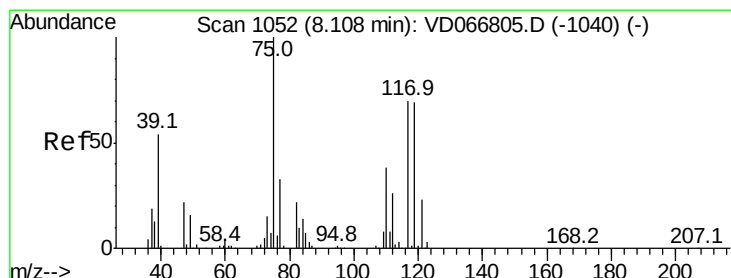
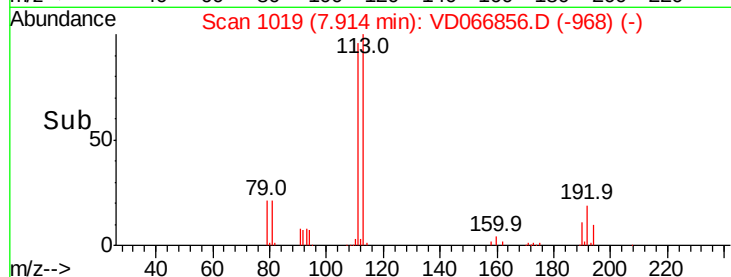
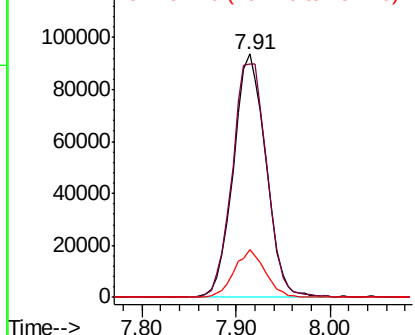
#35
 Dibromofluoromethane
 Concen: 52.151 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD066856.D
 Acq: 24 Sep 2020 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 B-3(9-11)

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.8
192	18.5	14.4	21.6

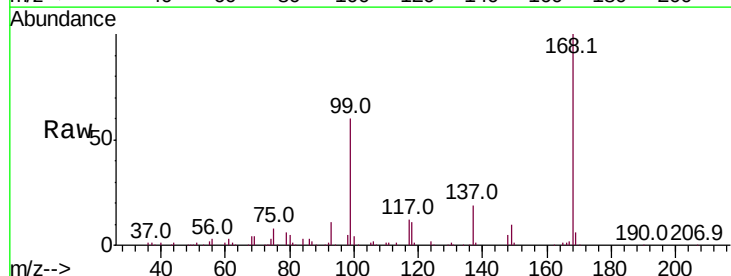


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

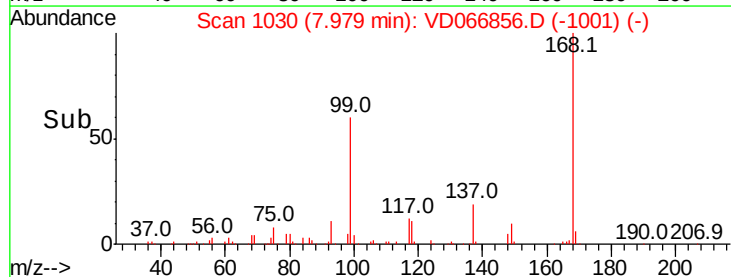
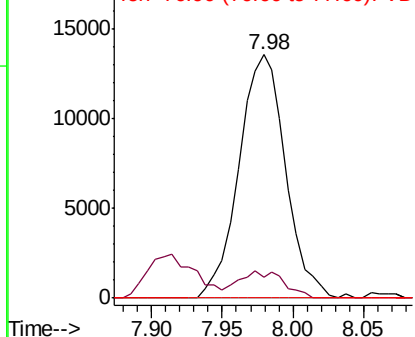


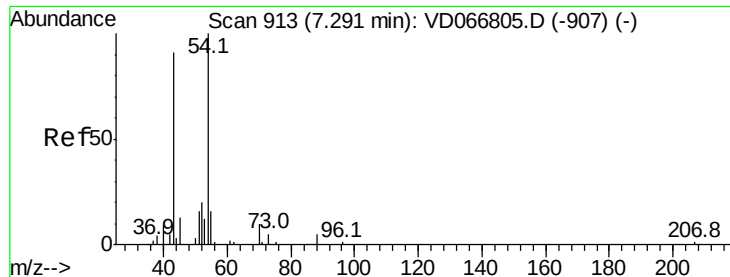
#36
 1,1-Dichloropropene
 Concen: 4.640 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD066856.D
 Acq: 24 Sep 2020 17:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.9	53.8#
77	0.0	25.0	37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC





#37

Ethyl Acetate

Concen: 1.265 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.09 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

B-3(9-11)

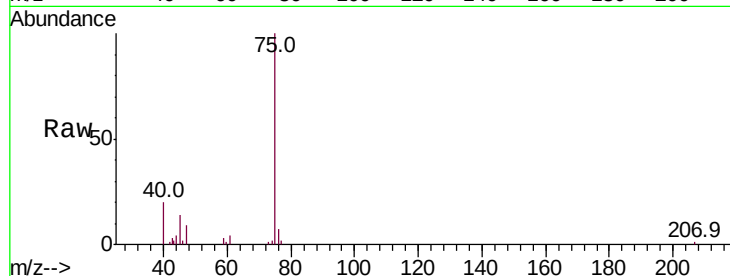
Tot Ion: 43 Resp: 3078

Ion Ratio Lower Upper

43 100

61 43.9 9.8 14.8#

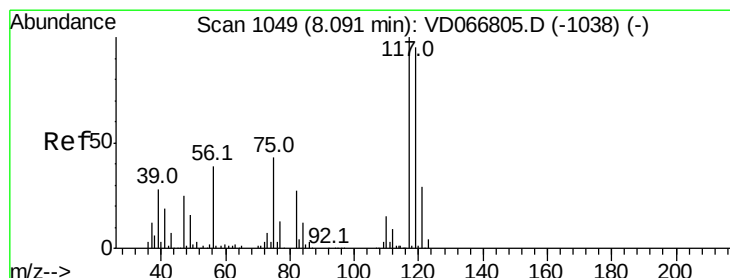
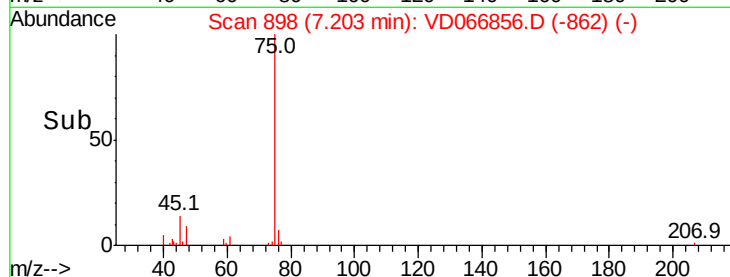
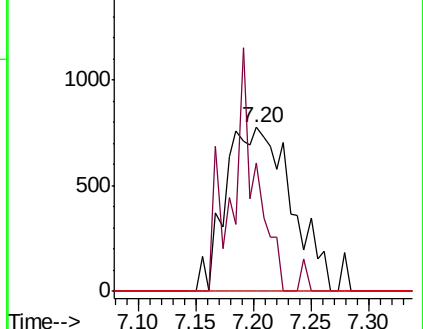
70 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 60.90 (60.60 to 61.60): V

Ion 70.00 (69.70 to 70.70): V



#38

Carbon Tetrachloride

Concen: 5.430 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

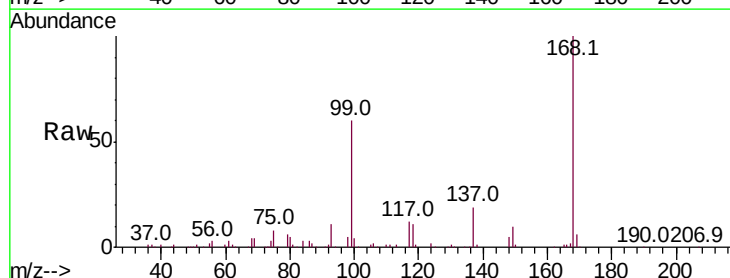
Tgt Ion: 117 Resp: 39964

Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.8#

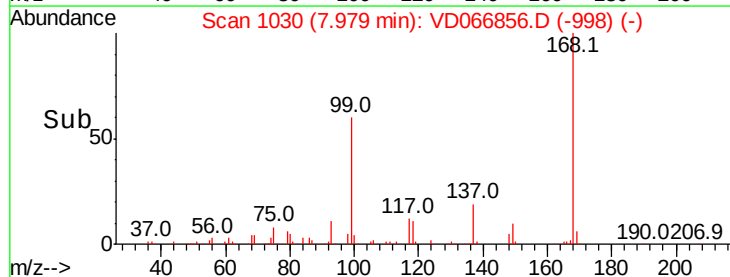
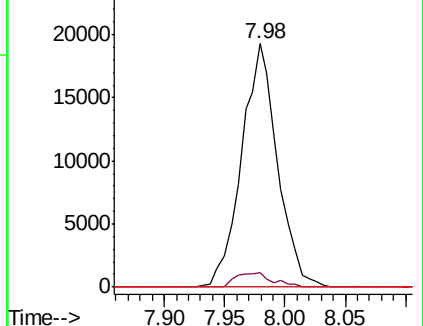
121 0.0 23.4 35.0#

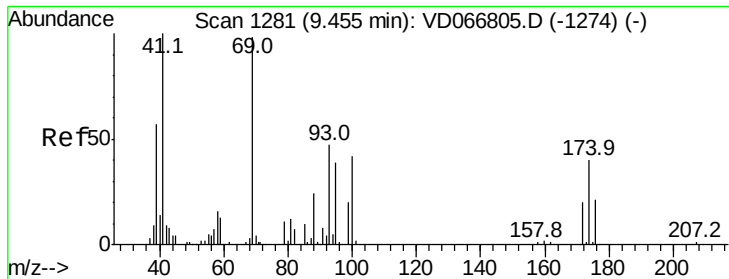


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.46 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

B-3(9-11)

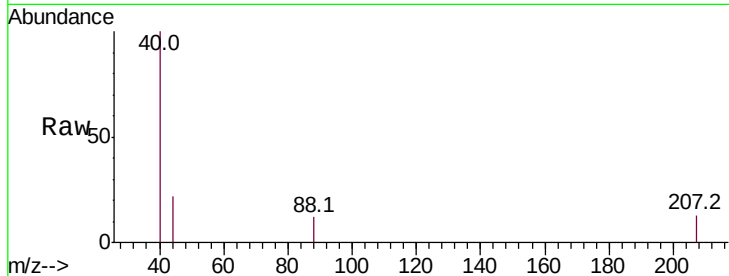
Tot Ion: 88 Resp: 175

Ion Ratio Lower Upper

88 100

43 0.0 27.7 41.5#

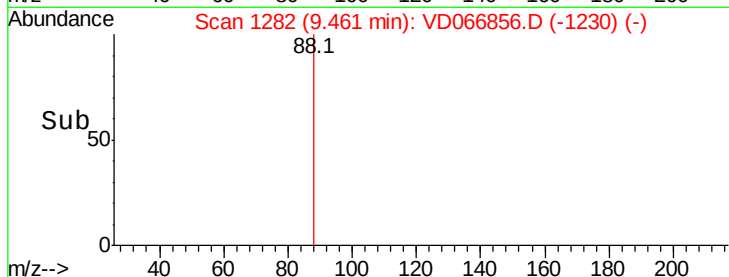
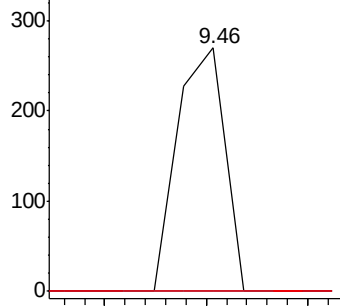
58 0.0 55.5 83.3#



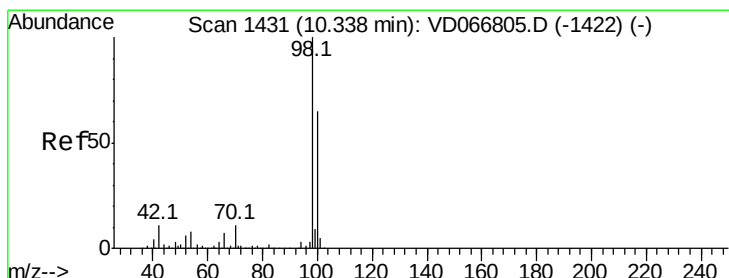
Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->



#50

Toluene-d8

Concen: 56.436 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066856.D

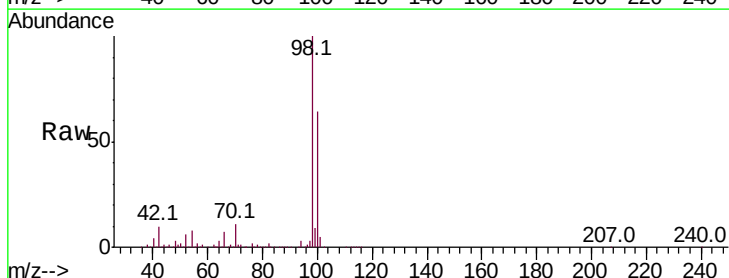
Acq: 24 Sep 2020 17:33

Tgt Ion: 98 Resp: 830161

Ion Ratio Lower Upper

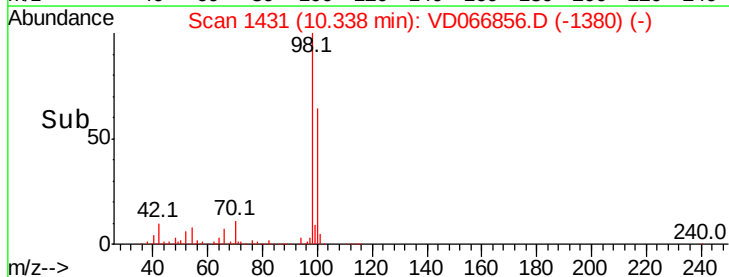
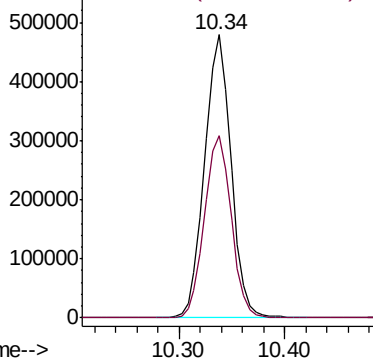
98 100

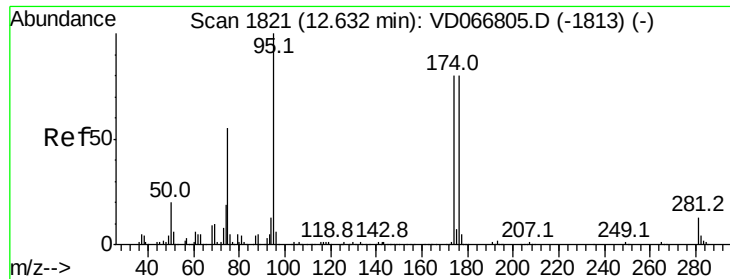
100 65.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

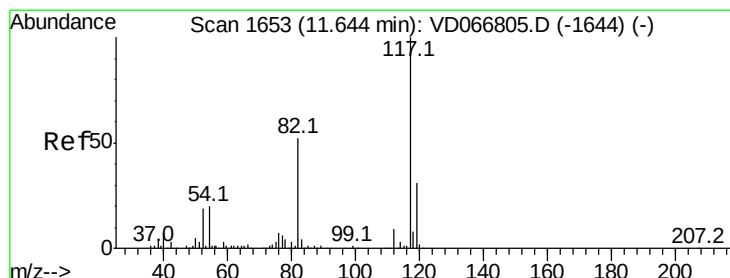
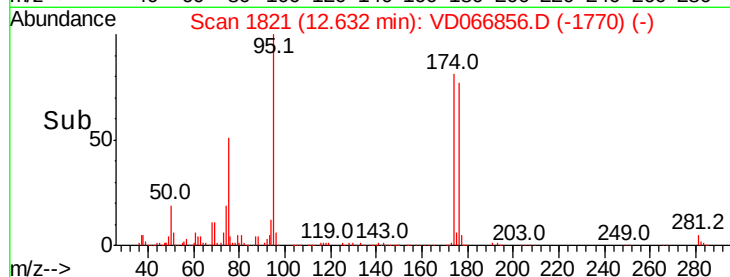
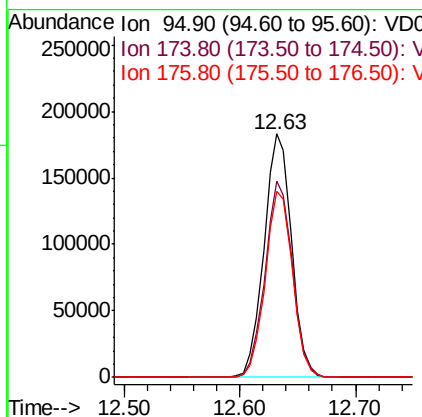
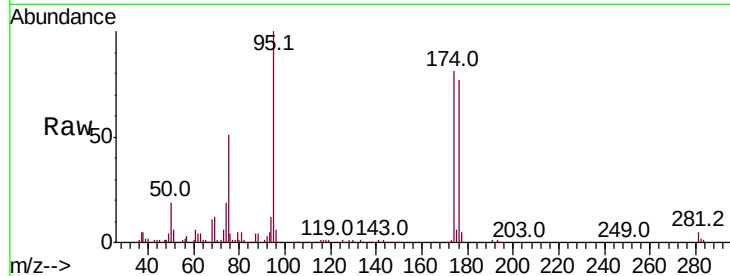




#62
4-Bromofluorobenzene
Concen: 60.373 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD066856.D
Acq: 24 Sep 2020 17:33

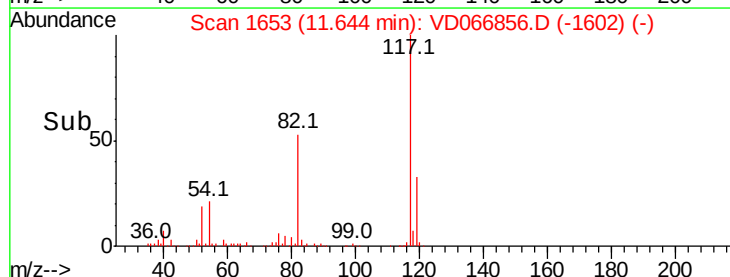
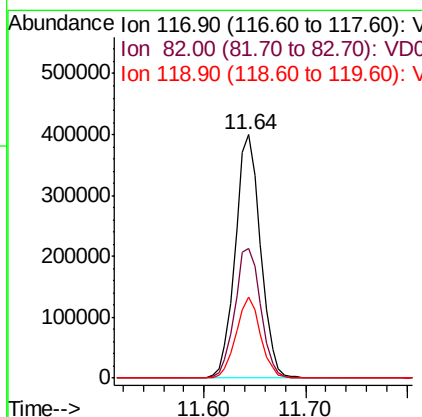
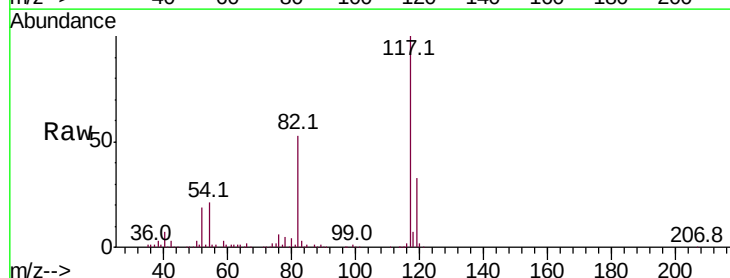
Instrument :
MSVOA_D
ClientSampleId :
B-3(9-11)

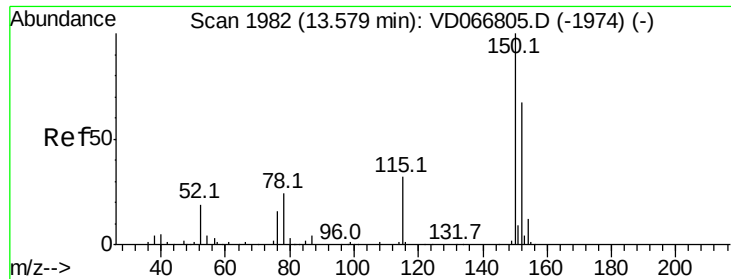
Tot Ion	Ratio	Lower	Upper
95	100		
174	80.2	0.0	159.8
176	76.1	0.0	154.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066856.D
Acq: 24 Sep 2020 17:33

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	41.8	62.6
119	33.3	24.6	37.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

B-3(9-11)

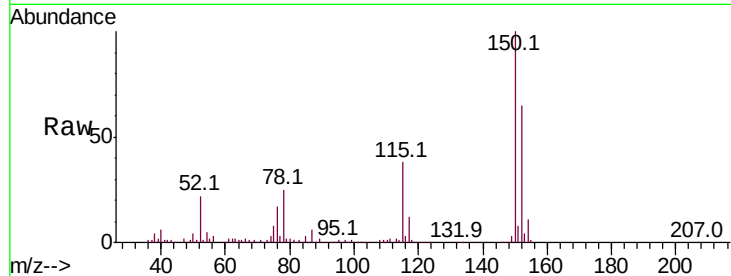
Tot Ion:152 Resp: 344132

Ion Ratio Lower Upper

152 100

115 58.6 30.3 91.0

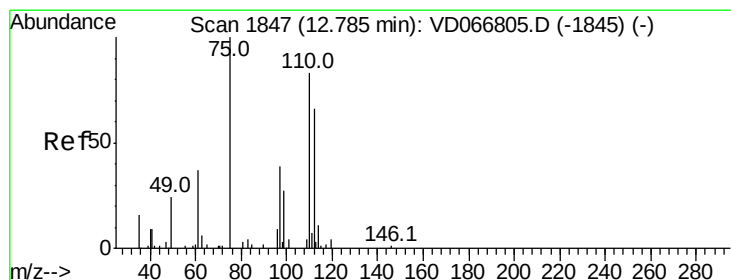
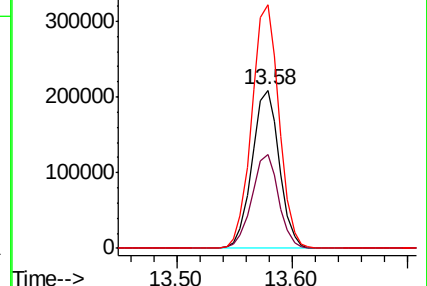
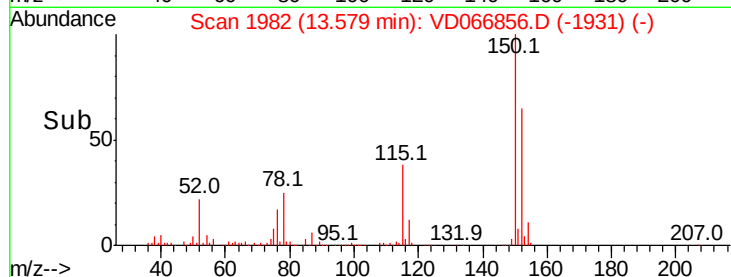
150 153.9 0.0 346.2



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



#76

1,2,3-Trichloropropane

Concen: 55.395 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066856.D

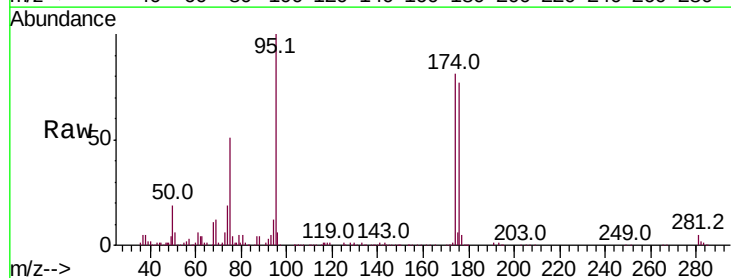
Acq: 24 Sep 2020 17:33

Tgt Ion: 75 Resp: 157981

Ion Ratio Lower Upper

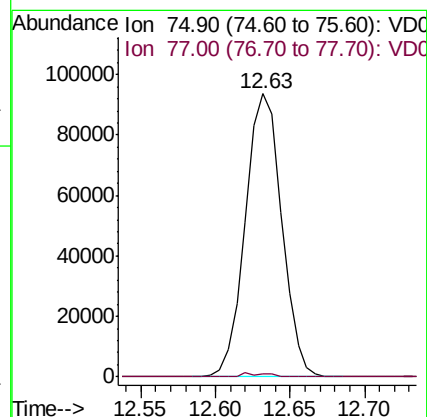
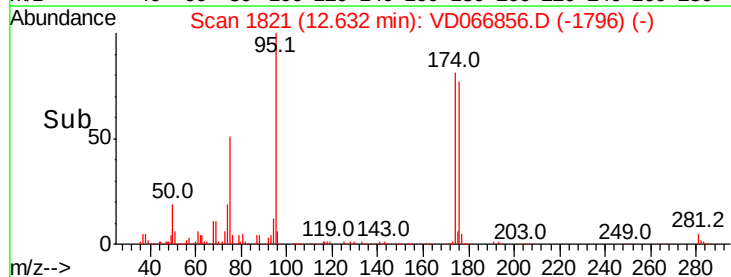
75 100

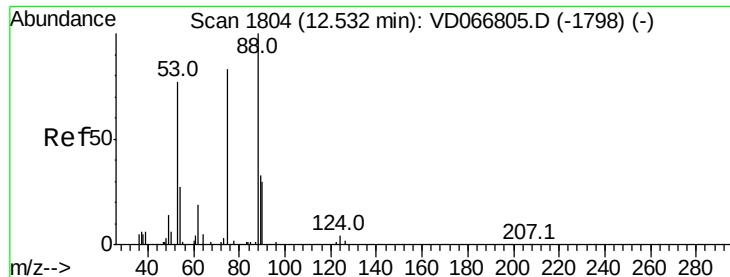
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 138.594 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

Instrument :

MSVOA_D

ClientSampleId :

B-3(9-11)

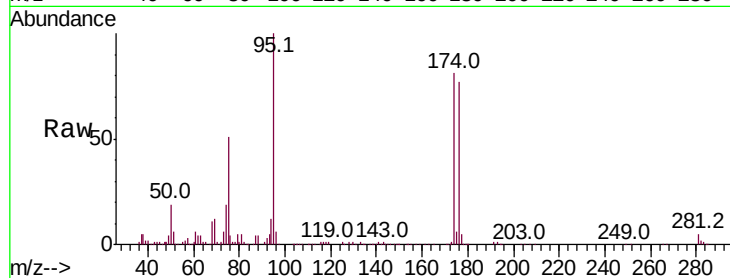
Tot Ion: 75 Resp: 157981

Ion Ratio Lower Upper

75 100

53 0.3 78.5 117.7#

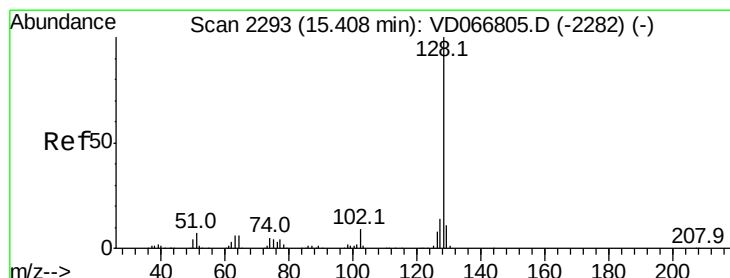
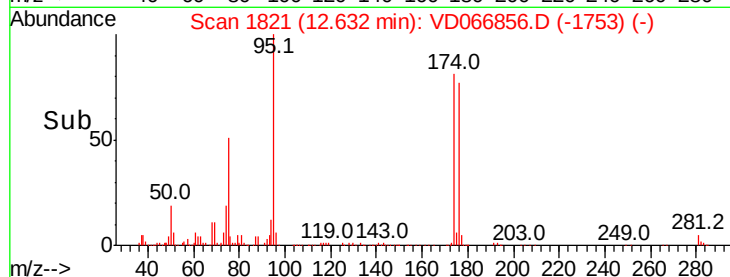
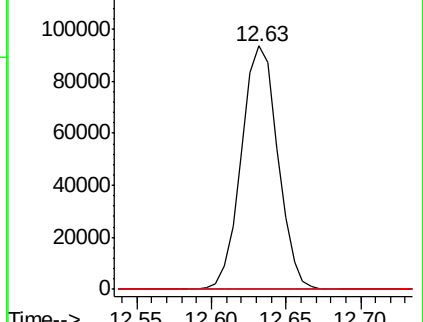
89 0.1 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#95

Naphthalene

Concen: 30.509 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066856.D

Acq: 24 Sep 2020 17:33

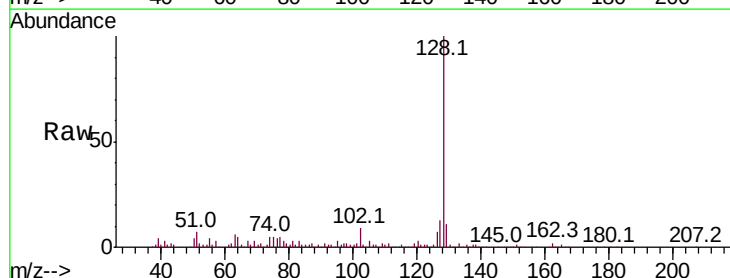
Tgt Ion: 128 Resp: 320445

Ion Ratio Lower Upper

128 100

127 13.6 10.6 16.0

129 11.5 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

