

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041320\
 Data File : VD065618.D
 Acq On : 13 Apr 2020 15:49
 Operator : VA/SY
 Sample : L2229-03
 Misc : 5.27G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-39

Quant Time: Apr 14 02:12:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040920S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 10 01:39:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	466746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	808557	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	763137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	350059	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	252967	57.31	ug/l	0.00
Spiked Amount			Recovery	=	114.62%	
35) Dibromofluoromethane	7.92	113	281405	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
50) Toluene-d8	10.34	98	931482	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	
62) 4-Bromofluorobenzene	12.64	95	321634	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	

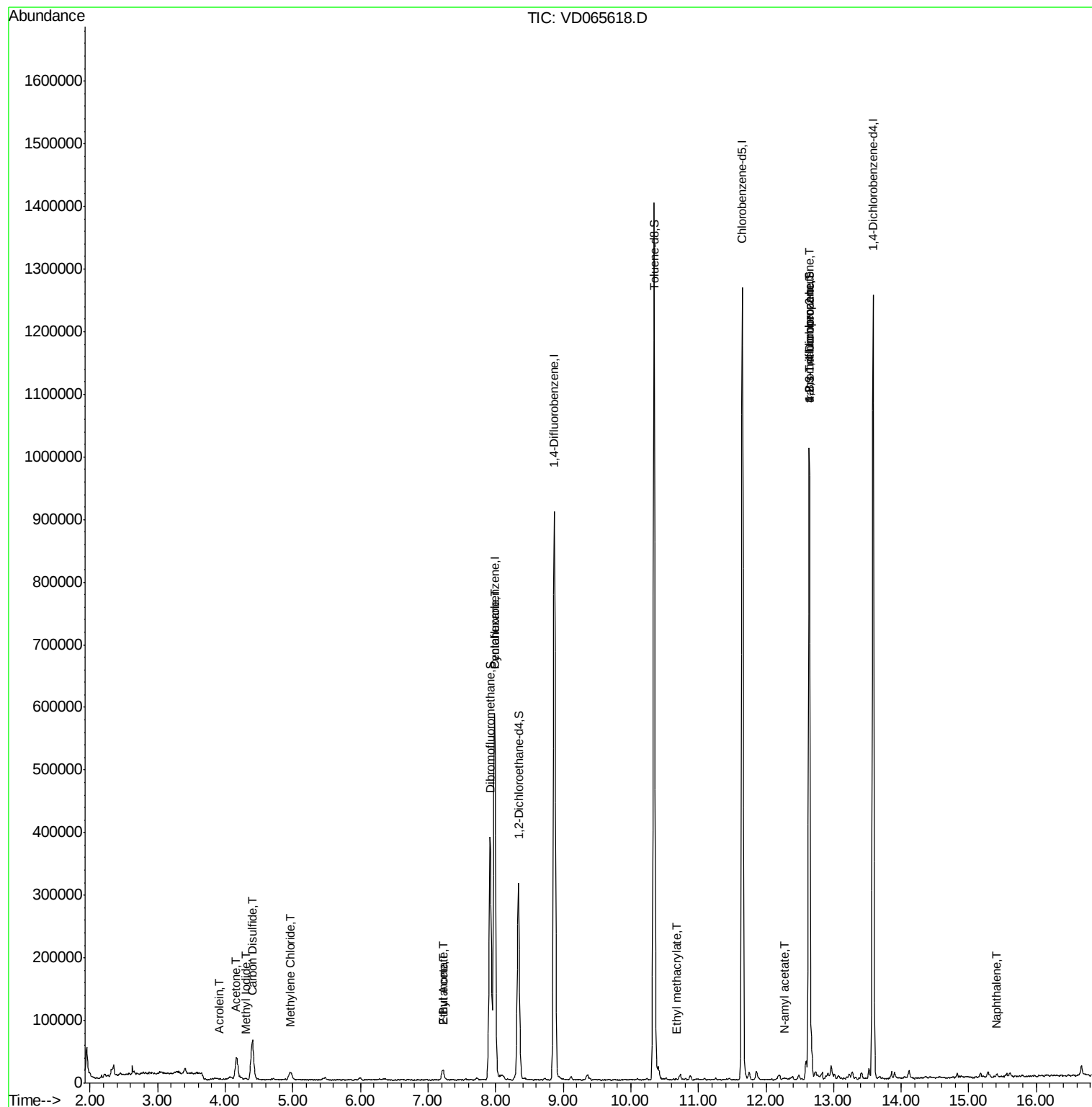
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.30	142	1758	2.886	ug/l #	82
13) Acrolein	3.92	56	393	1.271	ug/l #	61
16) Acetone	4.16	43	63957	80.236	ug/l	99
17) Carbon Disulfide	4.40	76	139040	9.338	ug/l	99
20) Methylene Chloride	4.95	84	9963	1.891	ug/l #	80
25) 2-Butanone	7.23	43	18677	17.119	ug/l	93
31) Cyclohexane	7.98	56	11295	1.434	ug/l #	14
37) Ethyl Acetate	7.23	43	18677	6.043	ug/l #	81
56) Ethyl methacrylate	10.67	69	699	3.438	ug/l #	69
74) N-amyl acetate	12.27	43	1528	3.218	ug/l #	60
76) 1,2,3-Trichloropropane	12.64	75	156246	55.652	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	156246	128.911	ug/l #	13
95) Naphthalene	15.41	128	4819	4.380	ug/l	97

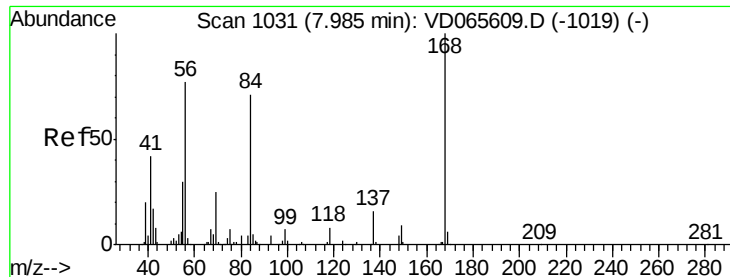
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 10 01:39:58 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampled :

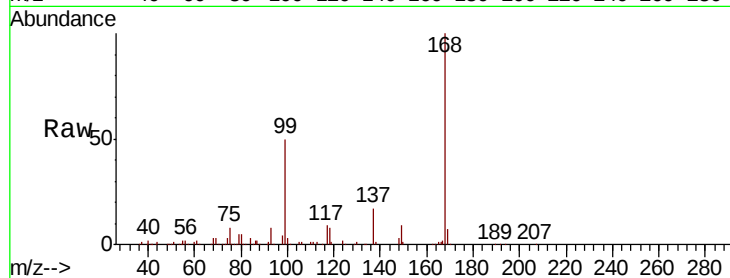
TP-39

Tot Ion:168 Resp: 466746

Ion Ratio Lower Upper

168 100

99 49.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.99

200000

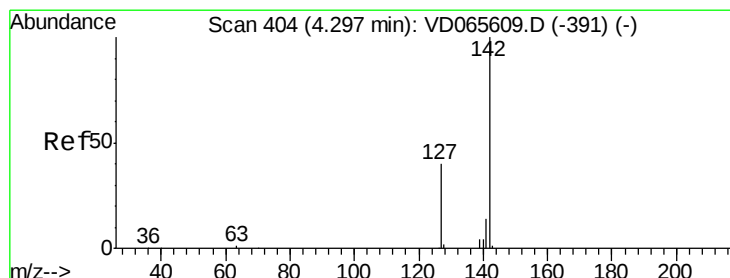
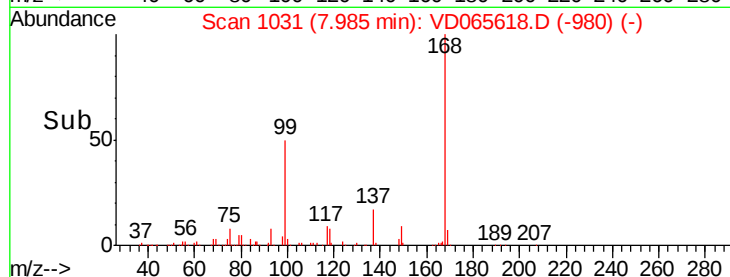
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.886 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

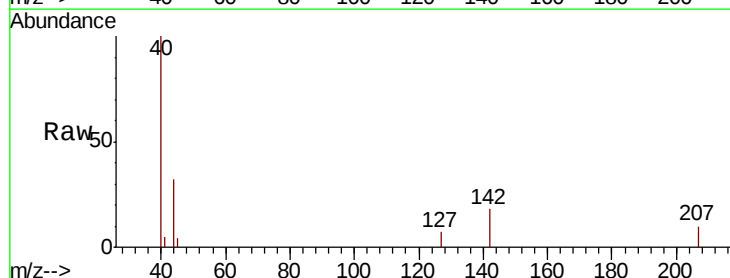
Tgt Ion:142 Resp: 1758

Ion Ratio Lower Upper

142 100

127 35.1 34.6 51.8

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

1000

800

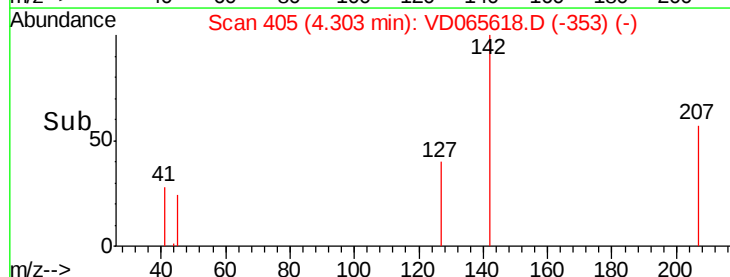
600

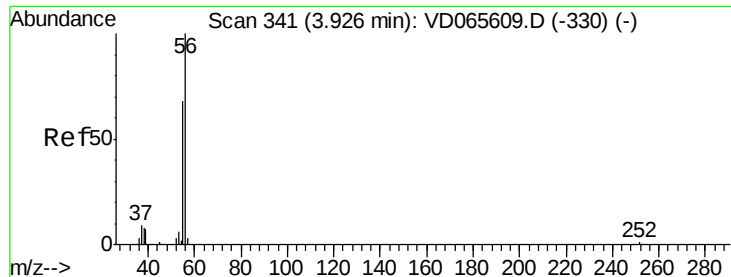
400

200

0

Time-->





#13

Acrolein

Concen: 1.271 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampleId :

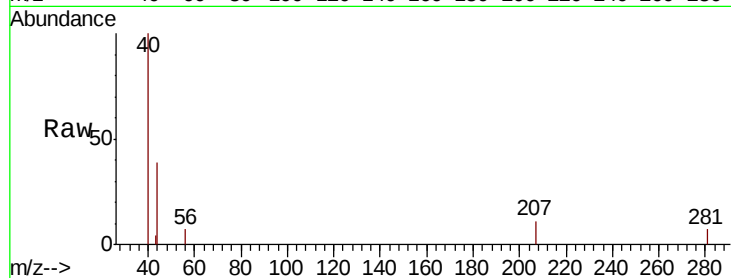
TP-39

Tot Ion: 56 Resp: 393

Ion Ratio Lower Upper

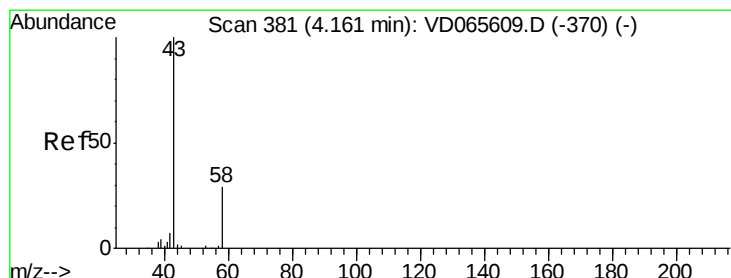
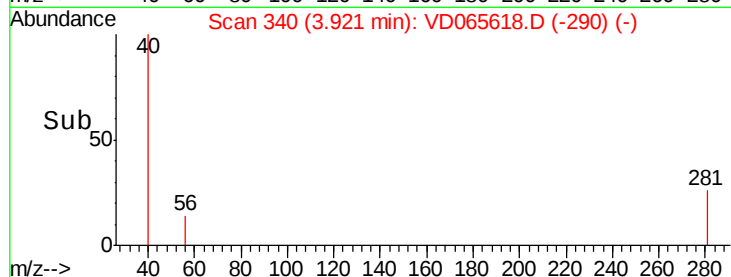
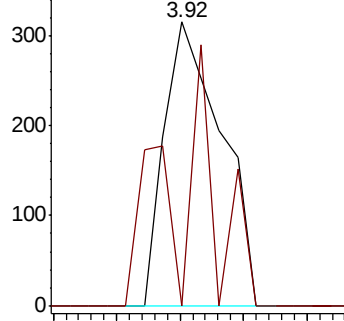
56 100

55 39.7 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 80.236 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD065618.D

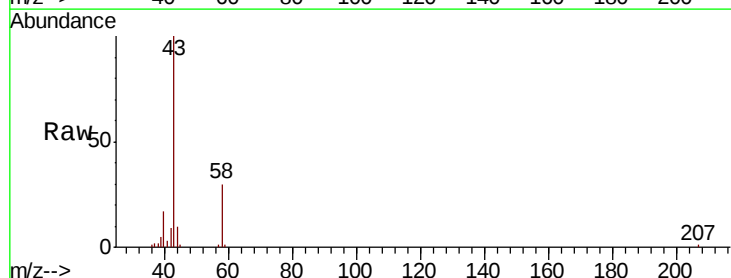
Acq: 13 Apr 2020 15:49

Tgt Ion: 43 Resp: 63957

Ion Ratio Lower Upper

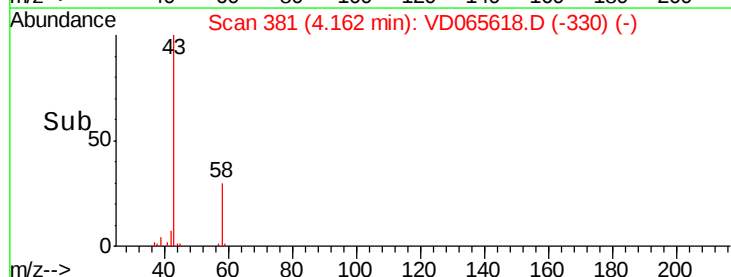
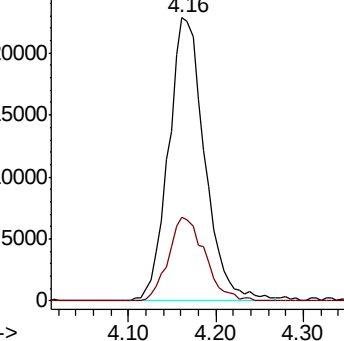
43 100

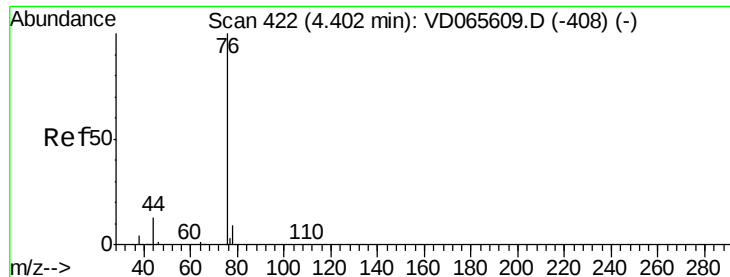
58 29.6 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 9.338 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampleId :

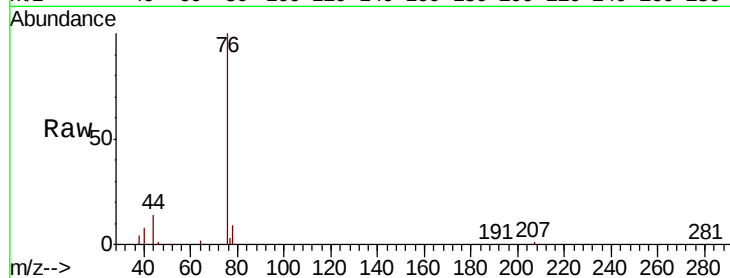
TP-39

Tot Ion: 76 Resp: 139040

Ion Ratio Lower Upper

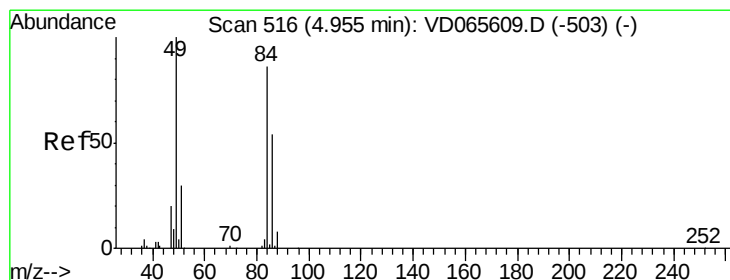
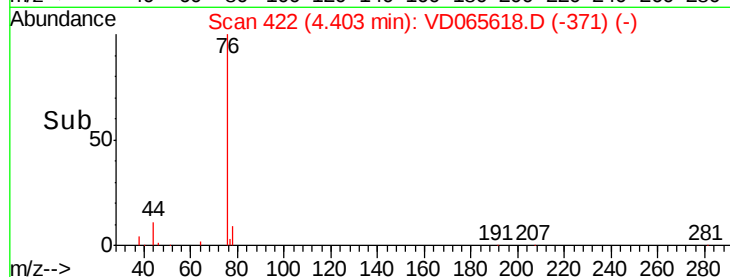
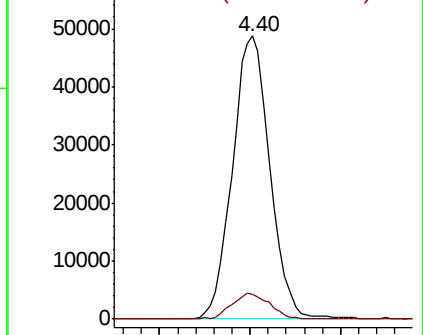
76 100

78 8.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#20

Methylene Chloride

Concen: 1.891 ug/l

RT: 4.95 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Tgt Ion: 84 Resp: 9963

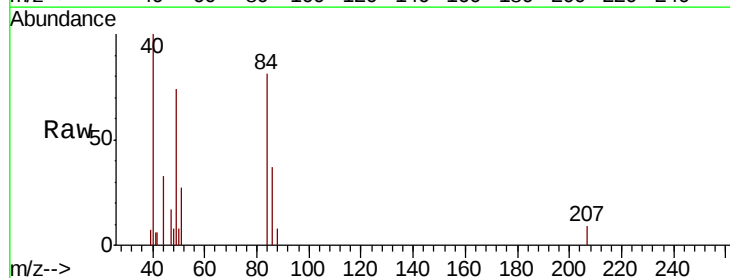
Ion Ratio Lower Upper

84 100

49 90.7 93.4 140.2#

51 33.3 28.5 42.7

86 46.2 50.2 75.4#

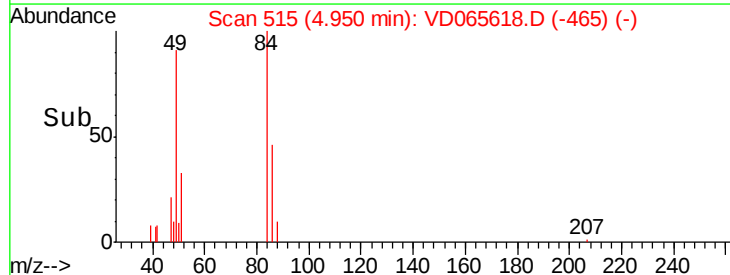
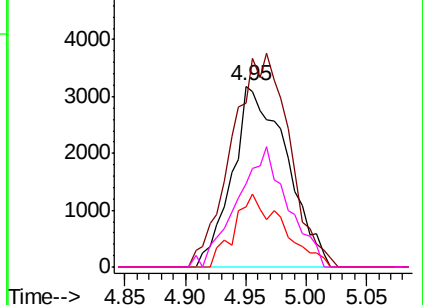


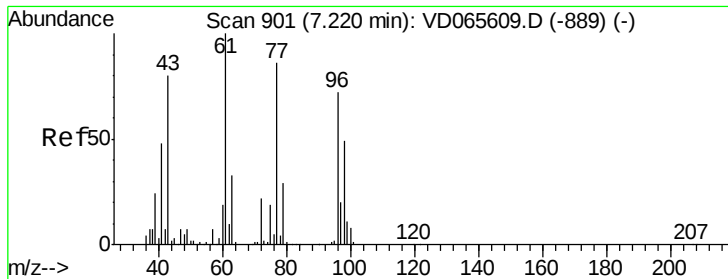
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 17.119 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampleId :

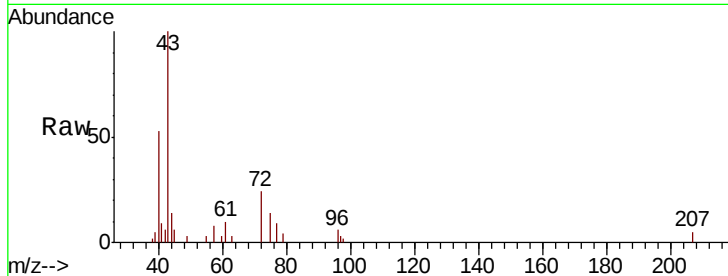
TP-39

Tot Ion: 43 Resp: 18677

Ion Ratio Lower Upper

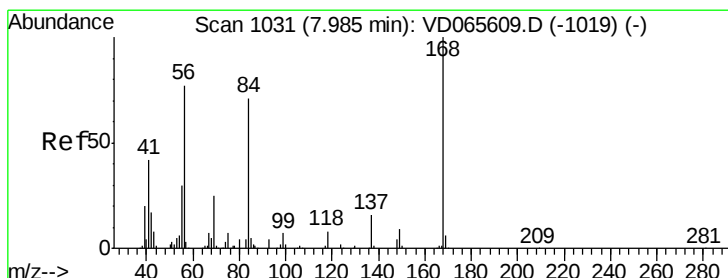
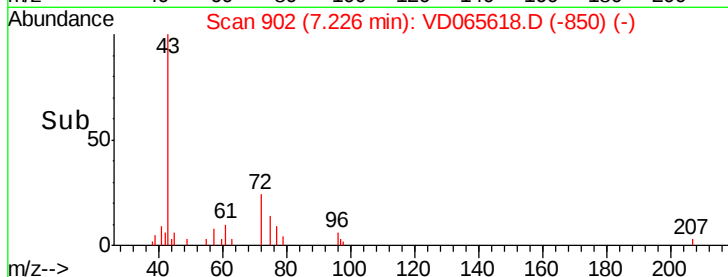
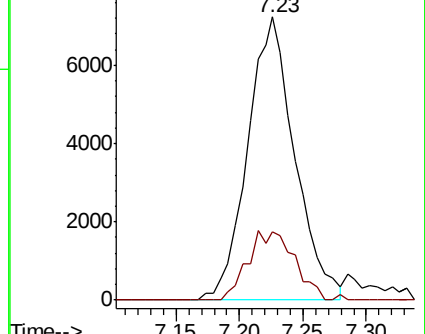
43 100

72 24.3 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.434 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

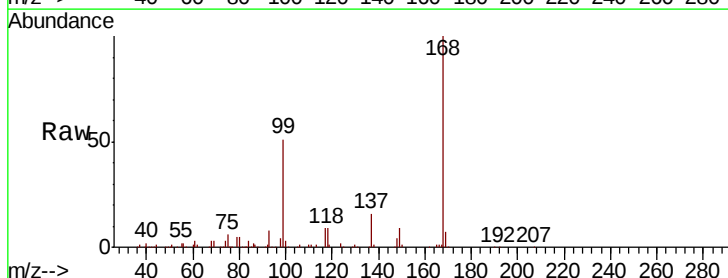
Tgt Ion: 56 Resp: 11295

Ion Ratio Lower Upper

56 100

69 140.9 26.2 39.4#

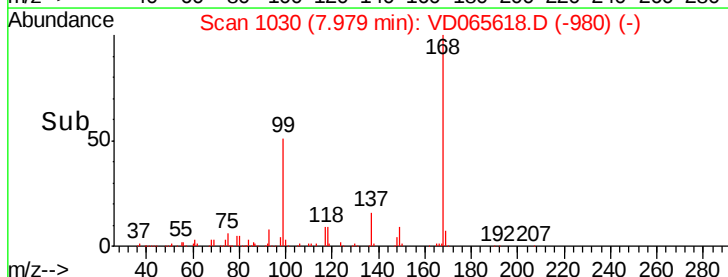
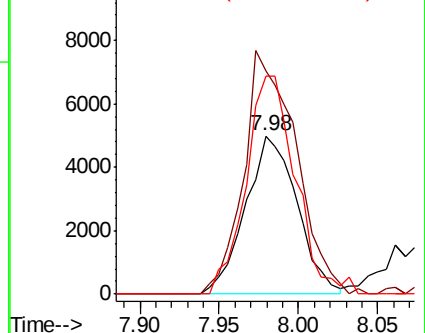
84 137.9 73.7 110.5#

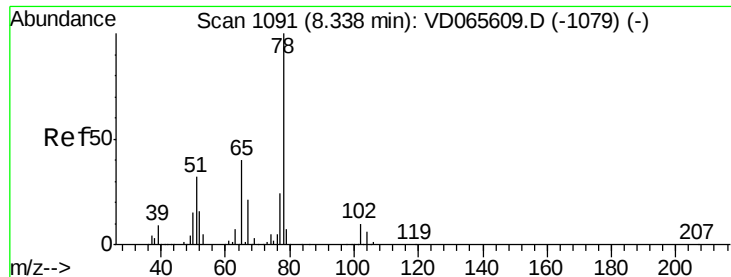


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

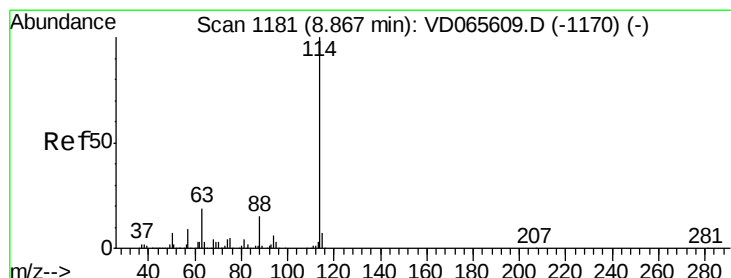
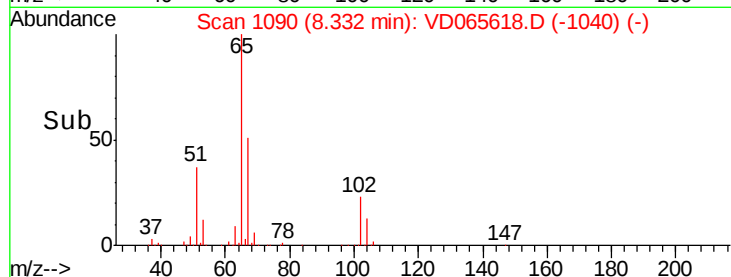
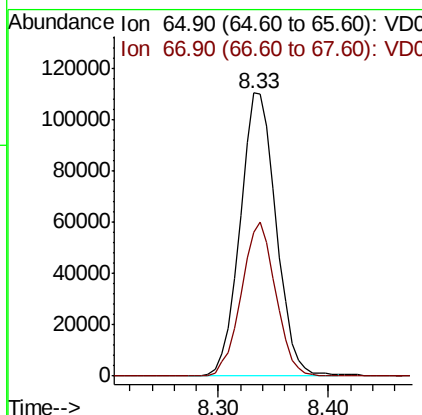
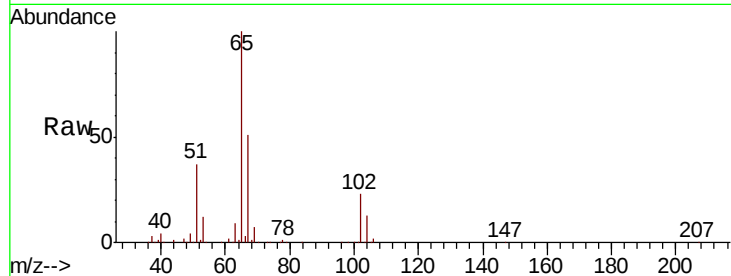




#33
 1,2-Dichloroethane-d4
 Concen: 57.306 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD065618.D
 Acq: 13 Apr 2020 15:49

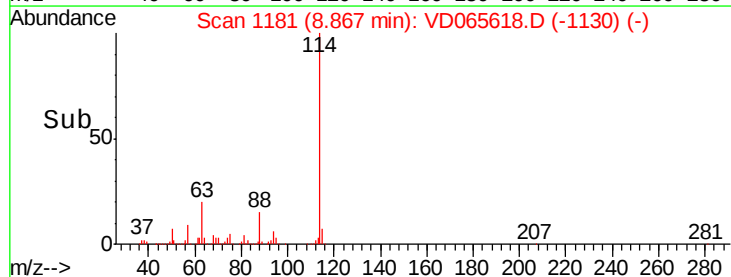
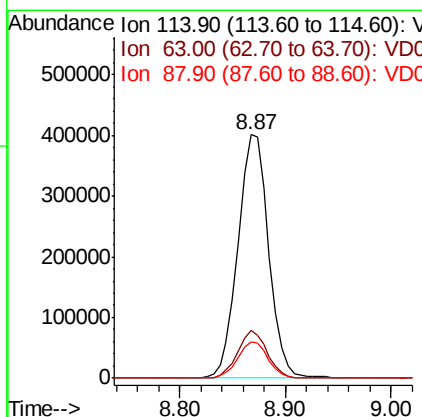
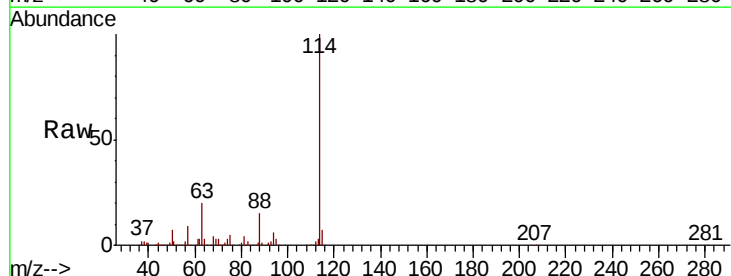
Instrument :
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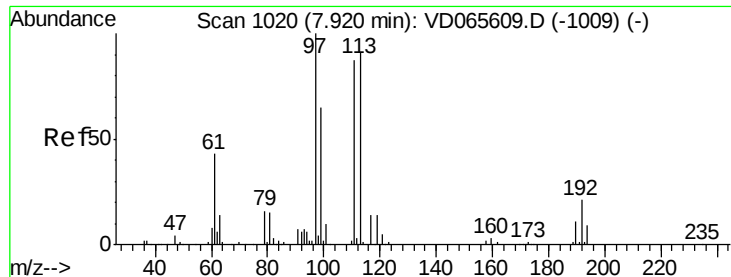
Tot Ion: 65 Resp: 252967
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065618.D
 Acq: 13 Apr 2020 15:49

Tgt Ion: 114 Resp: 808557
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.2
 88 15.0 0.0 29.6

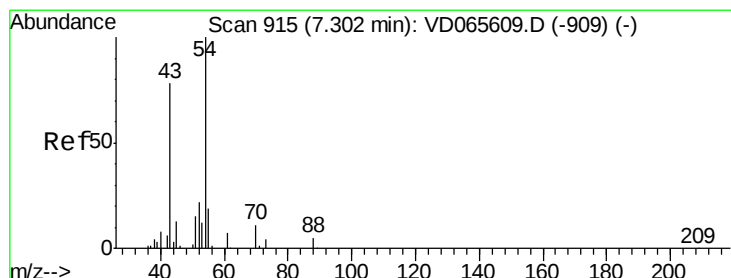
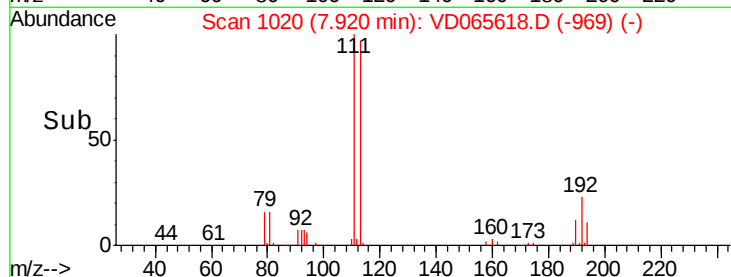
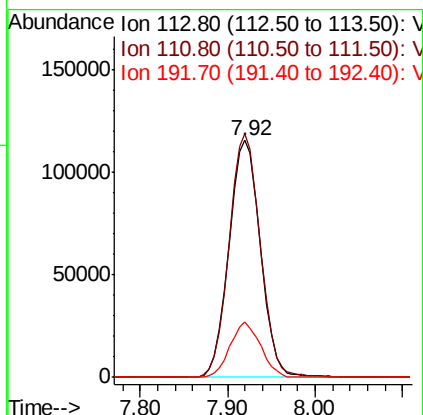
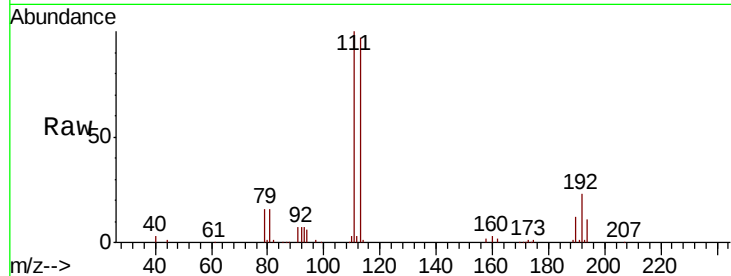




#35
 Dibromofluoromethane
 Concen: 49.817 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065618.D
 Acq: 13 Apr 2020 15:49

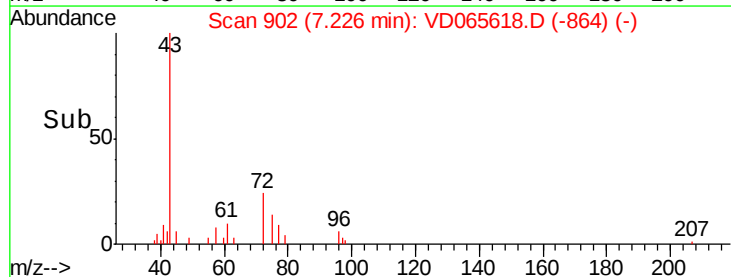
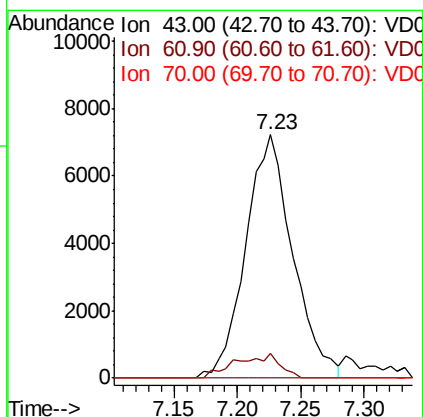
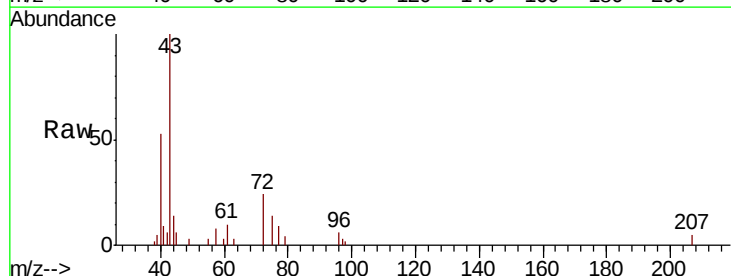
Instrument :
 MSVOA_D
 ClientSampled :
 TP-39

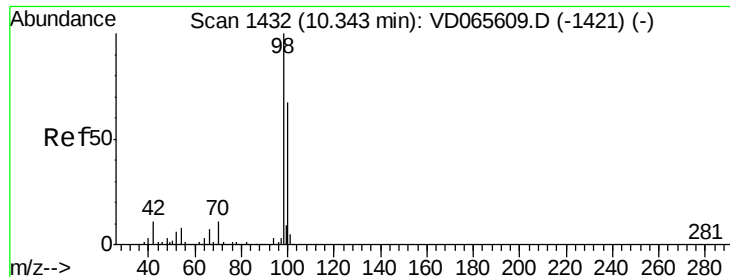
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.6	120.8
192	22.6	18.6	27.8



#37
 Ethyl Acetate
 Concen: 6.043 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. -0.08 min
 Lab File: VD065618.D
 Acq: 13 Apr 2020 15:49

Tgt Ion	Ratio	Lower	Upper
43	100		
61	9.2	11.3	16.9#
70	0.0	8.6	13.0#





#50

Toluene-d8

Concen: 45.156 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampled :

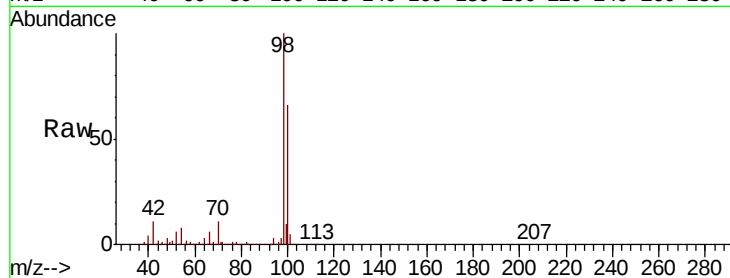
TP-39

Tot Ion: 98 Resp: 931482

Ion Ratio Lower Upper

98 100

100 66.0 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

600000

500000

400000

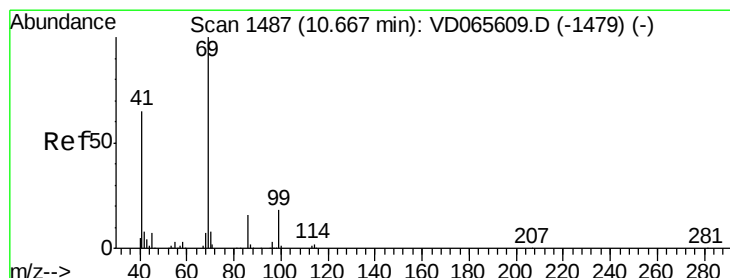
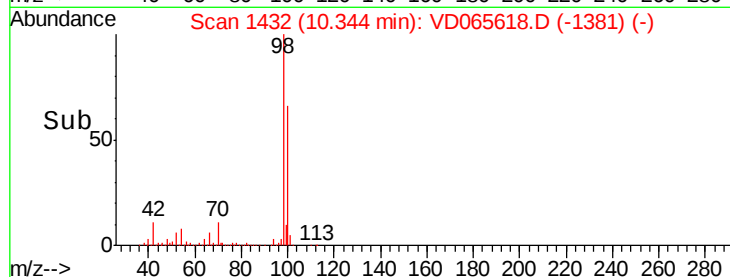
300000

200000

100000

0

Time-->



#56

Ethyl methacrylate

Concen: 3.438 ug/l

RT: 10.67 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

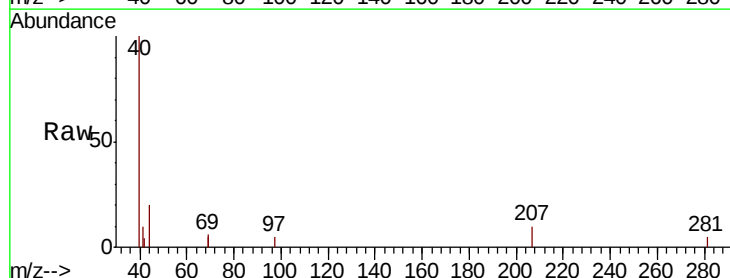
Tgt Ion: 69 Resp: 699

Ion Ratio Lower Upper

69 100

41 101.4 54.4 81.6#

39 37.9 26.5 39.7



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

600

500

400

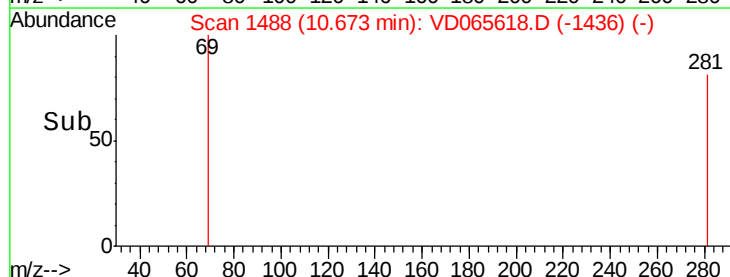
300

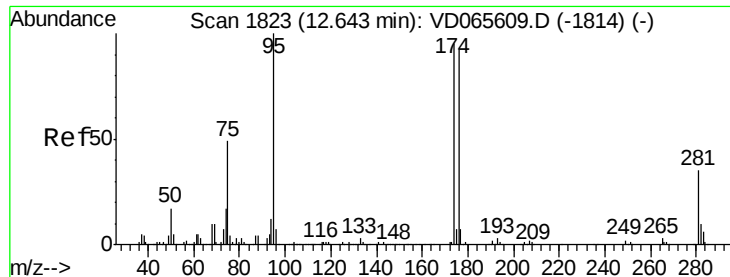
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 48.522 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampled :

TP-39

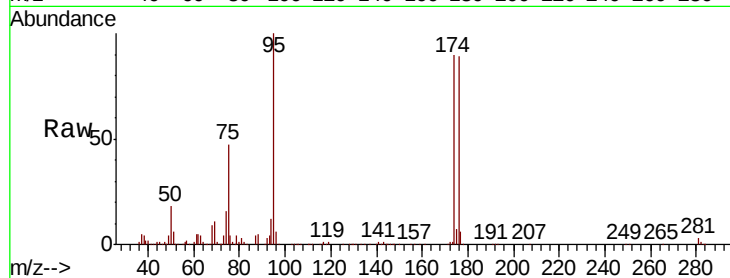
Tot Ion: 95 Resp: 321634

Ion Ratio Lower Upper

95 100

174 91.5 0.0 182.8

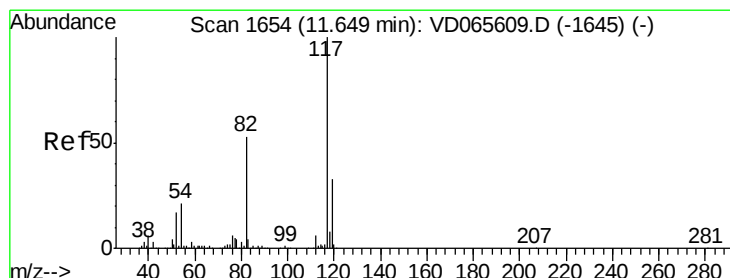
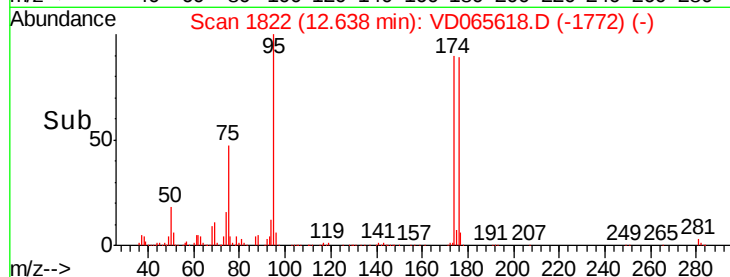
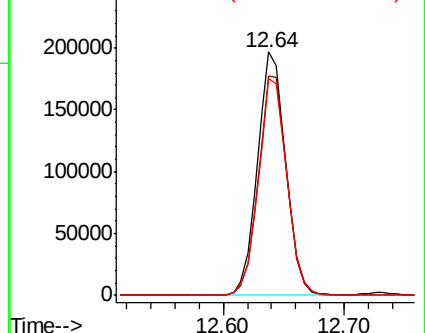
176 89.3 0.0 176.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

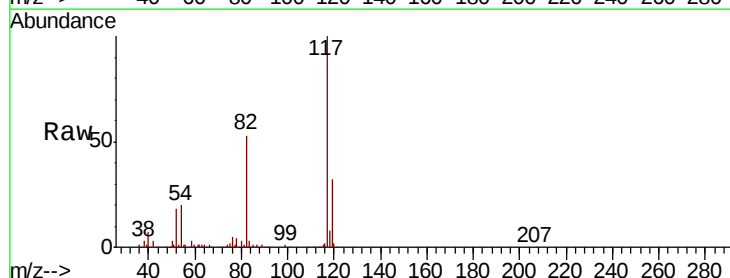
Tgt Ion: 117 Resp: 763137

Ion Ratio Lower Upper

117 100

82 53.0 42.6 64.0

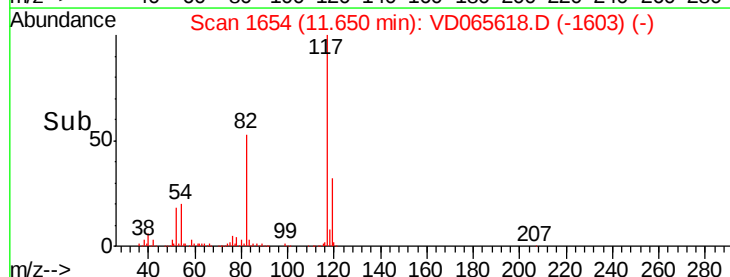
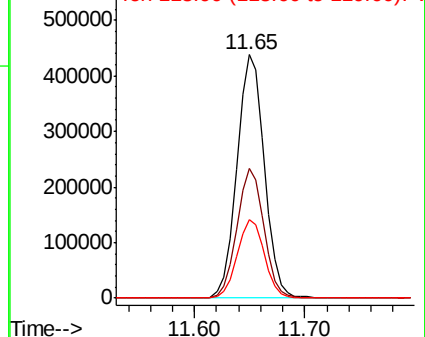
119 32.0 26.7 40.1

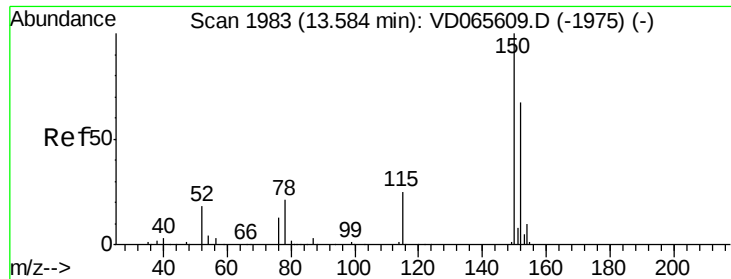


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



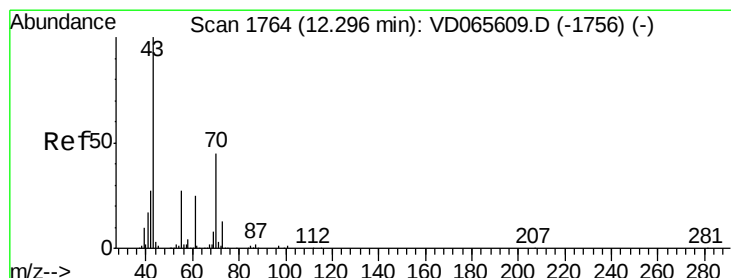
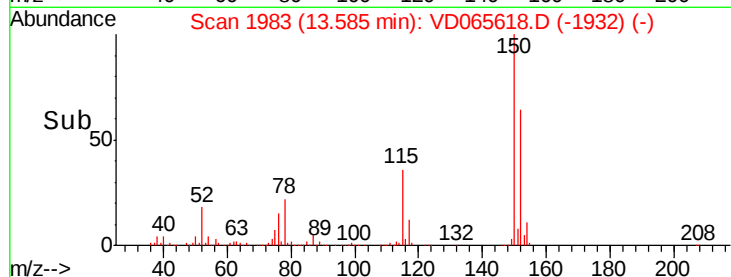
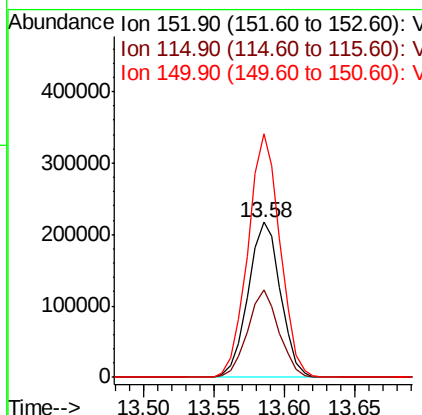
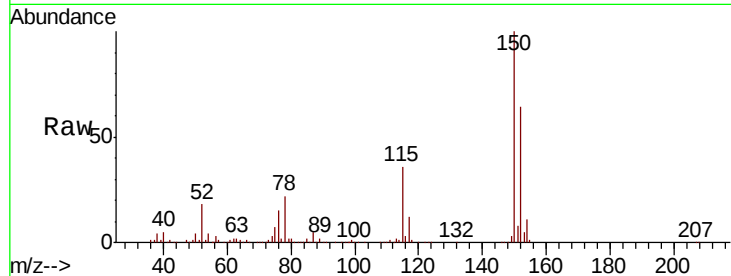


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065618.D
Acq: 13 Apr 2020 15:49

Instrument :
MSVOA_D
ClientSampleId :
TP-39

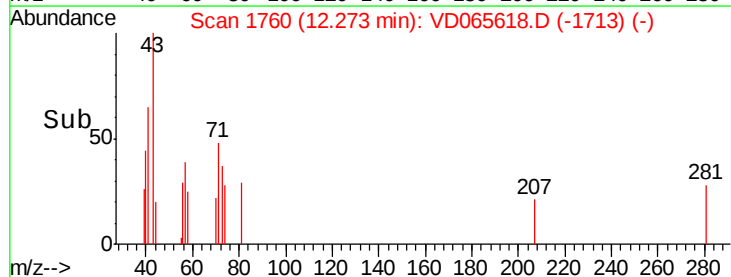
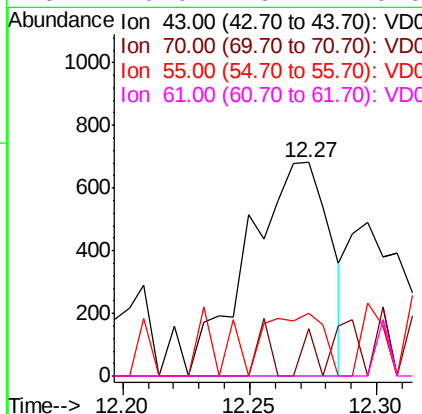
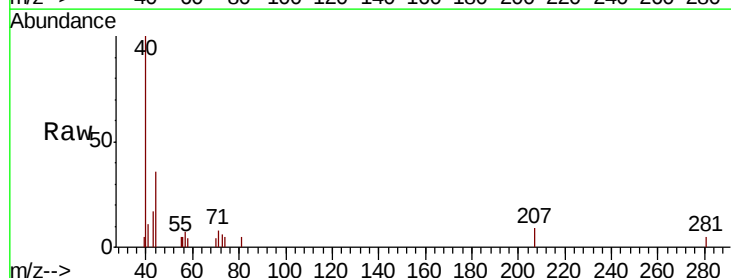
Tot Ion:152 Resp: 350059
Ion Ratio Lower Upper
152 100
115 54.2 27.1 81.2
150 155.1 0.0 348.2

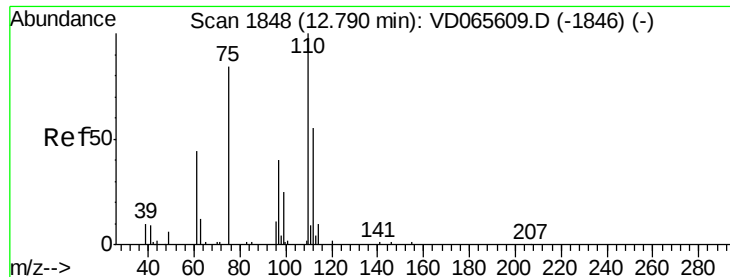


#74

N-ethyl acetate
Concen: 3.218 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD065618.D
Acq: 13 Apr 2020 15:49

Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
70 11.3 35.2 52.8#
55 20.6 22.5 33.7#
61 0.0 19.4 29.0#





#76

1,2,3-Trichloropropane

Concen: 55.652 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampled :

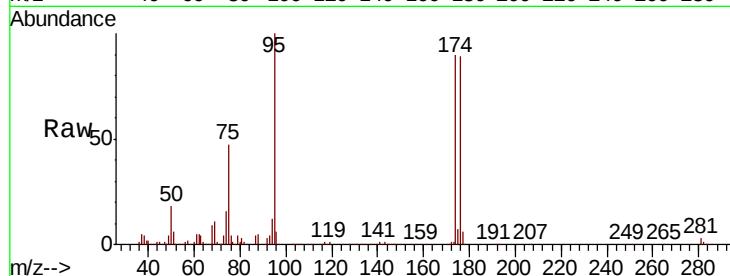
TP-39

Tot Ion: 75 Resp: 156246

Ion Ratio Lower Upper

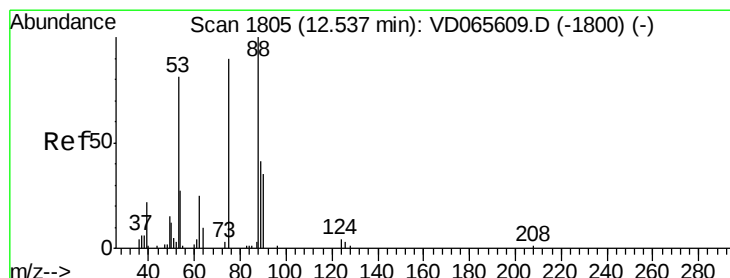
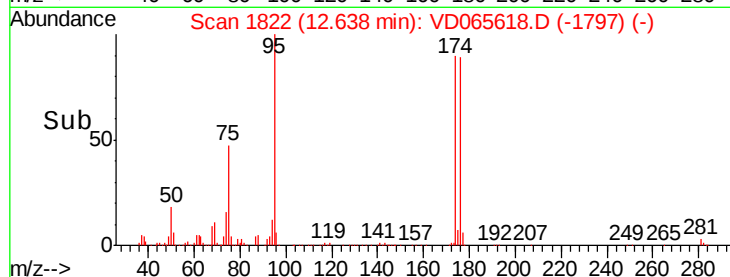
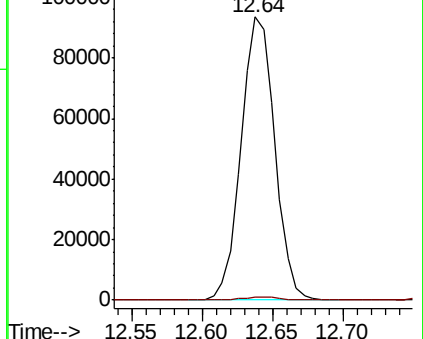
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 128.911 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

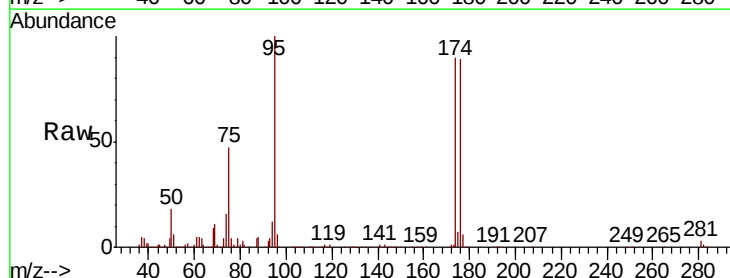
Tgt Ion: 75 Resp: 156246

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.8#

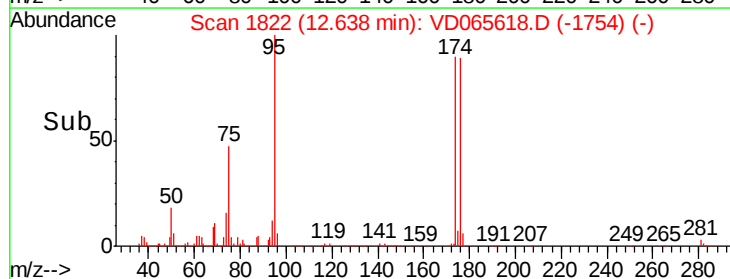
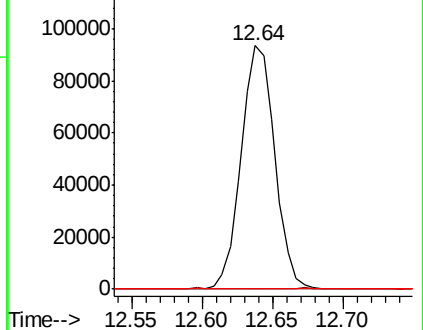
89 0.1 36.1 54.1#

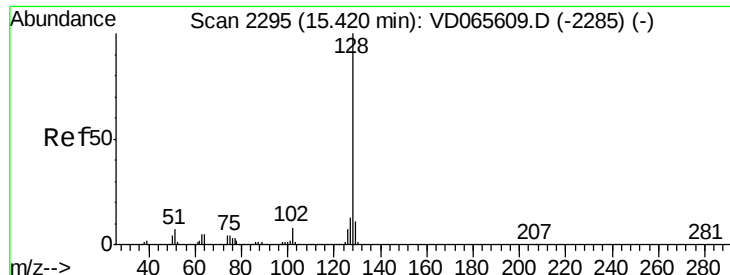


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 4.380 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065618.D

Acq: 13 Apr 2020 15:49

Instrument :

MSVOA_D

ClientSampleId :

TP-39

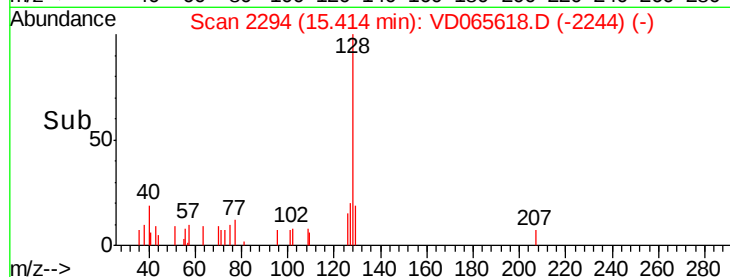
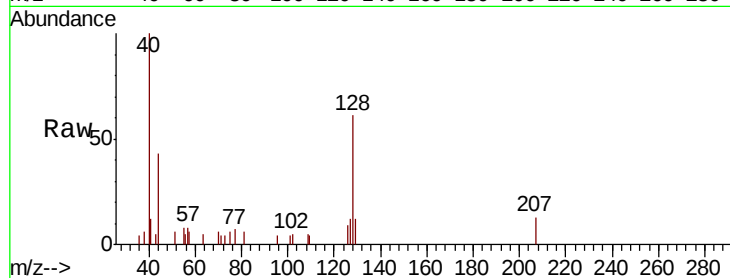
Tot Ion:128 Resp: 4819

Ion Ratio Lower Upper

128 100

127 14.5 10.6 15.8

129 9.8 8.4 12.6



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

