

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121418\
 Data File : VD060586.D
 Acq On : 14 Dec 2018 21:15
 Operator : VA/AP
 Sample : J6403-61
 Misc : 5.54g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 22:25:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1487603	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.43	114	2073029	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.28	117	1542394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	687870	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	521831	49.49	ug/l	-0.02
Spiked Amount			Recovery	=	98.98%	
35) Dibromofluoromethane	6.31	113	709960	46.63	ug/l	-0.02
Spiked Amount			Recovery	=	93.26%	
50) Toluene-d8	9.45	98	2016303	45.76	ug/l	-0.02
Spiked Amount			Recovery	=	91.52%	
62) 4-Bromofluorobenzene	12.42	95	644269	40.86	ug/l	-0.02
Spiked Amount			Recovery	=	81.72%	

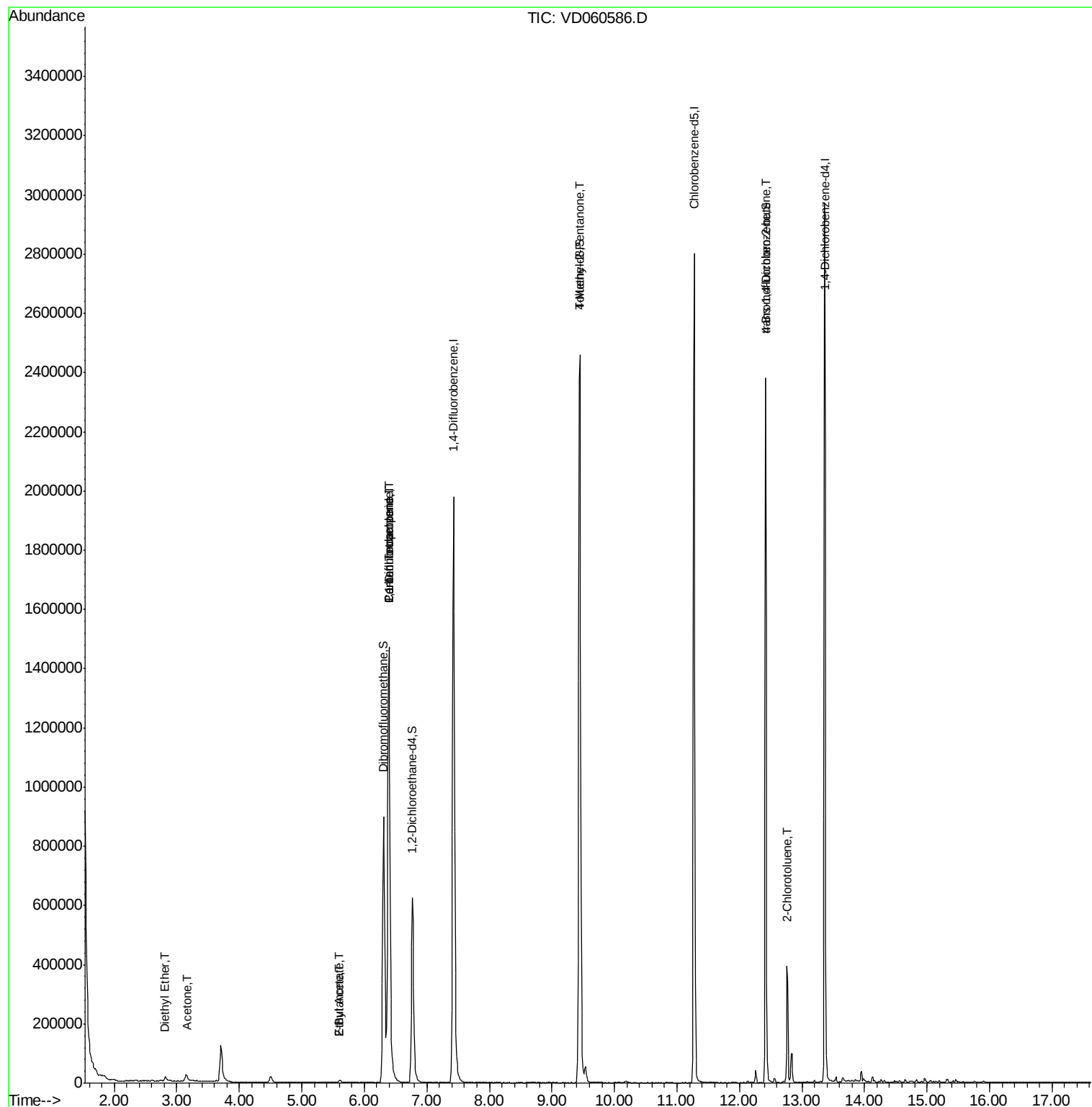
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	534	Below Cal	#	41
8) Diethyl Ether	2.81	74	4932	2.027	ug/l	97
16) Acetone	3.16	43	53764	31.811	ug/l	98
25) 2-Butanone	5.60	43	16180	4.866	ug/l #	90
31) Cyclohexane	6.38	56	28008	Below Cal	#	1
36) 1,1-Dichloropropene	6.39	75	107276	5.294	ug/l #	45
37) Ethyl Acetate	5.60	43	16180	1.841	ug/l #	68
38) Carbon Tetrachloride	6.39	117	116014	6.377	ug/l #	15
51) 4-Methyl-2-Pentanone	9.45	43	10929	1.620	ug/l #	1
79) 2-Chlorotoluene	12.76	91	58089	1.740	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.42	75	267160	122.901	ug/l #	14
89) n-Butylbenzene	13.55	91	2120	Below Cal		96

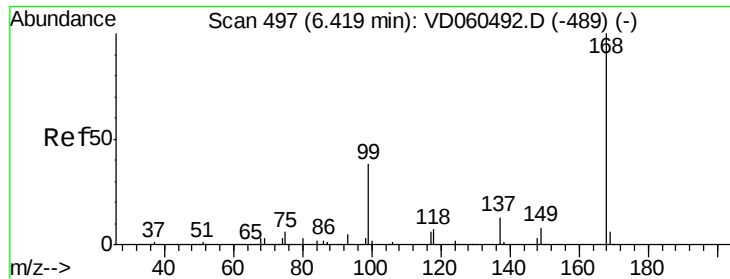
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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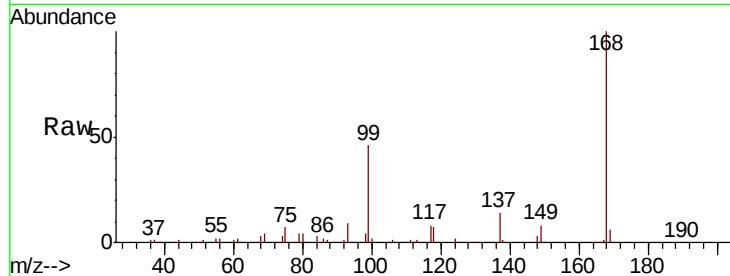


#1

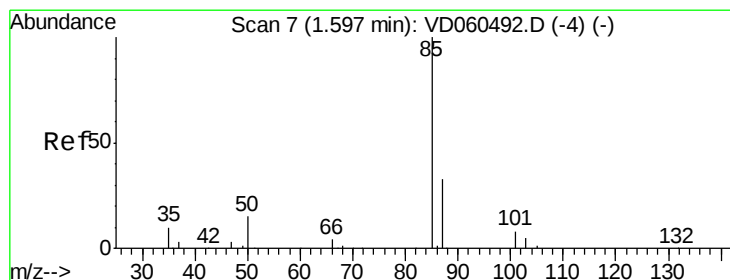
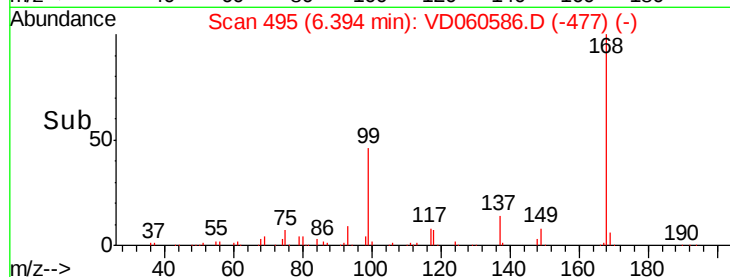
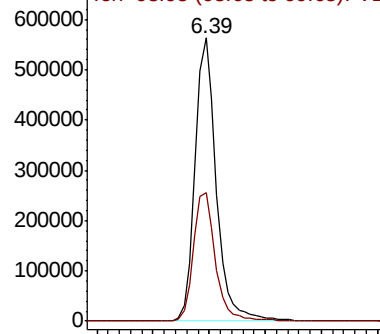
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.02 min
 Lab File: VD060586.D
 Acq: 14 Dec 2018 21:15

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:168 Resp: 1487603
 Ion Ratio Lower Upper
 168 100
 99 45.5 35.6 53.4



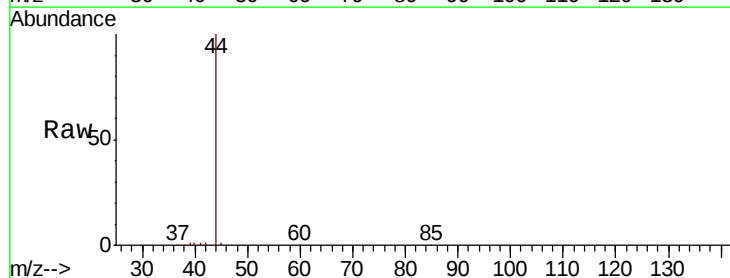
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



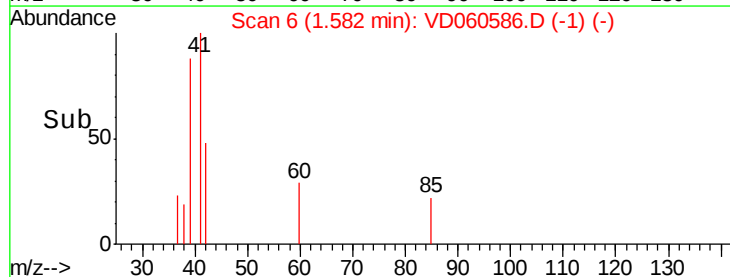
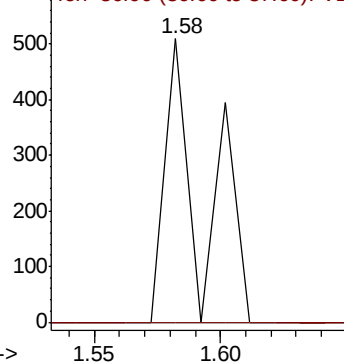
#2

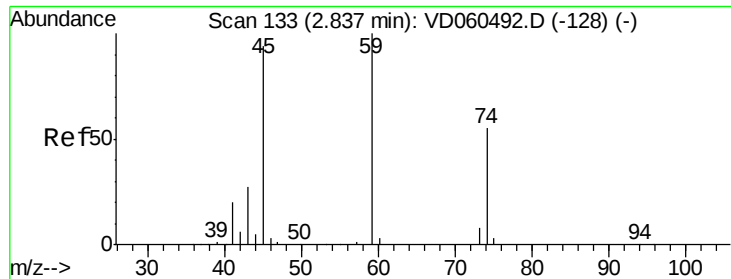
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.58 min Scan# 6
 Delta R.T. -0.01 min
 Lab File: VD060586.D
 Acq: 14 Dec 2018 21:15

Tgt Ion: 85 Resp: 534
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC
 Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 2.027 ug/l

RT: 2.81 min Scan# 131

Delta R.T. -0.02 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

Instrument :

MSVOA_D

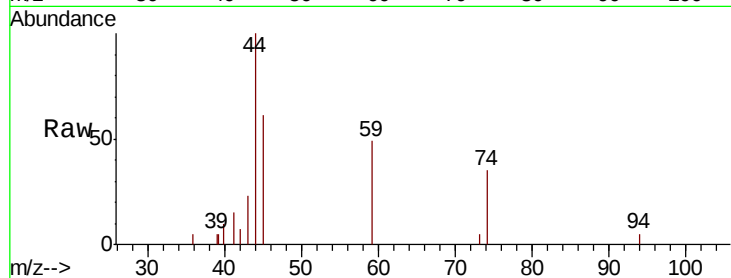
ClientSampled :

Tot Ion: 74 Resp: 4932

Ion Ratio Lower Upper

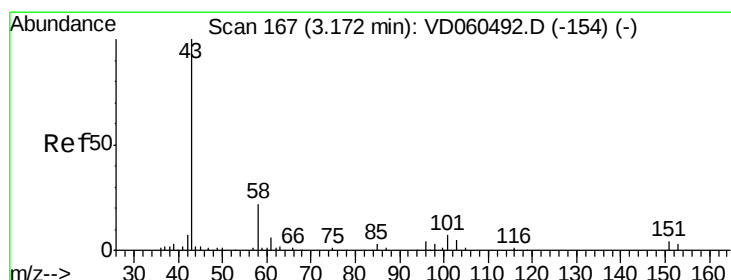
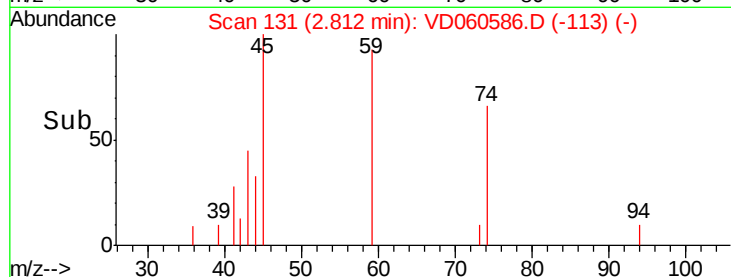
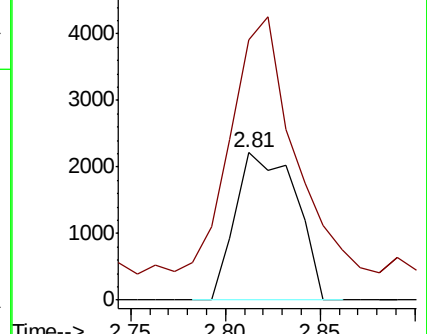
74 100

45 176.8 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 31.811 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD060586.D

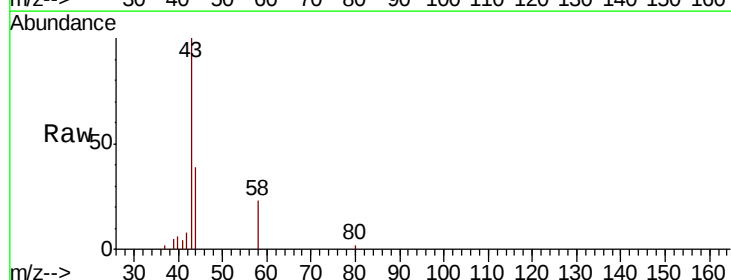
Acq: 14 Dec 2018 21:15

Tgt Ion: 43 Resp: 53764

Ion Ratio Lower Upper

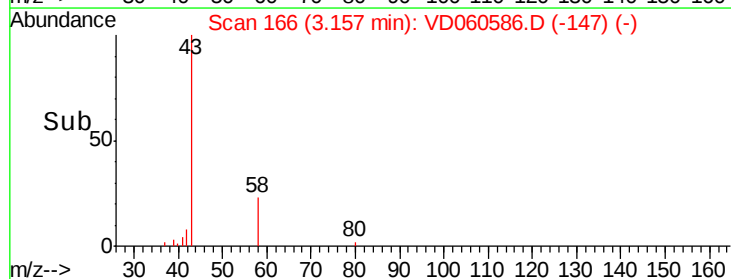
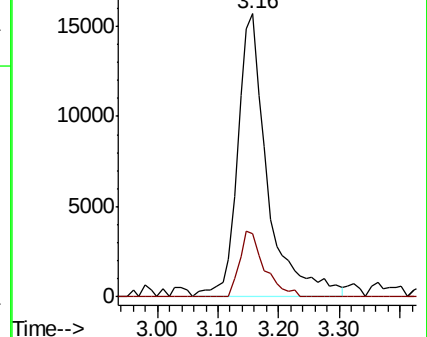
43 100

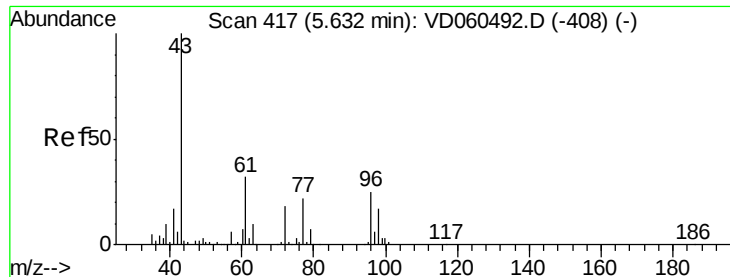
58 22.5 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 4.866 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.03 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

Instrument :

MSVOA_D

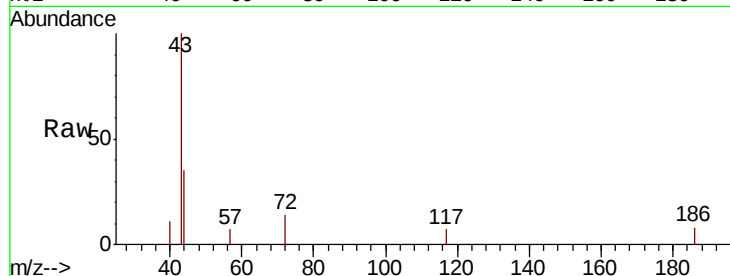
ClientSampleId :

Tot Ion: 43 Resp: 16180

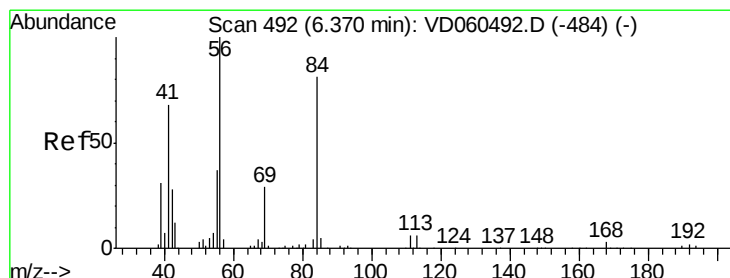
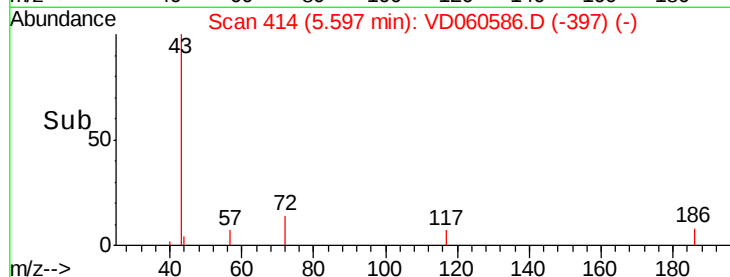
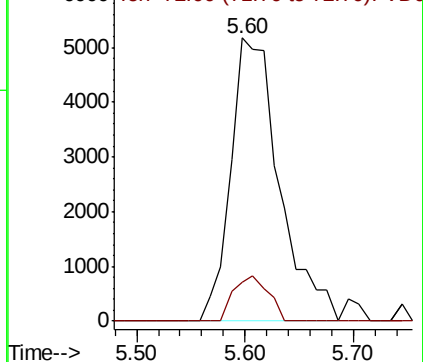
Ion Ratio Lower Upper

43 100

72 13.7 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 6.38 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

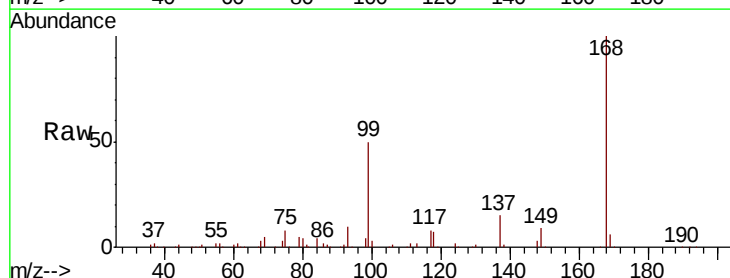
Tgt Ion: 56 Resp: 28008

Ion Ratio Lower Upper

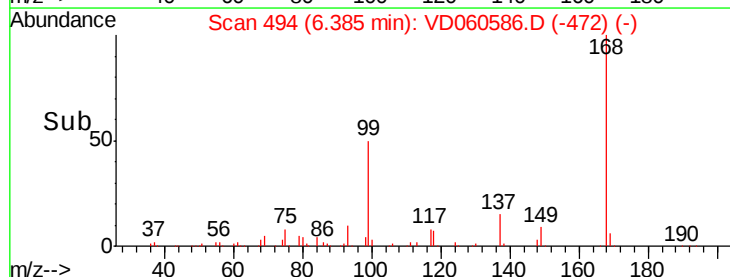
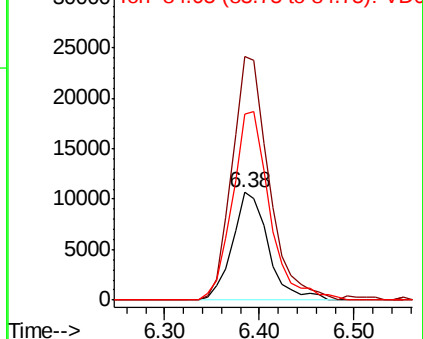
56 100

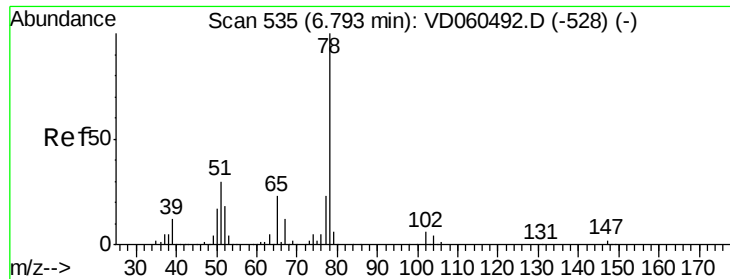
69 225.8 22.8 34.2#

84 172.0 65.1 97.7#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

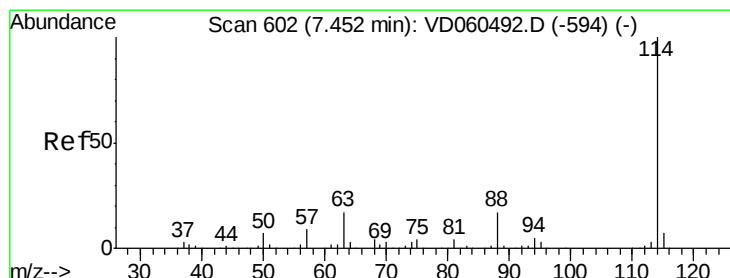
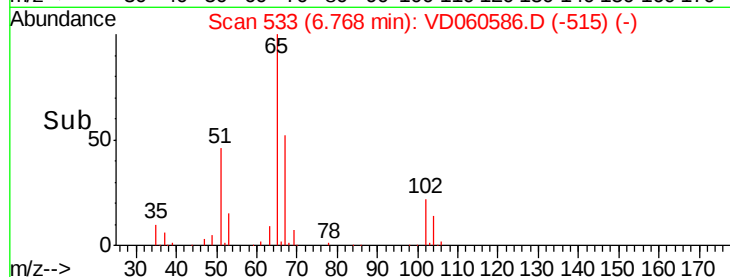
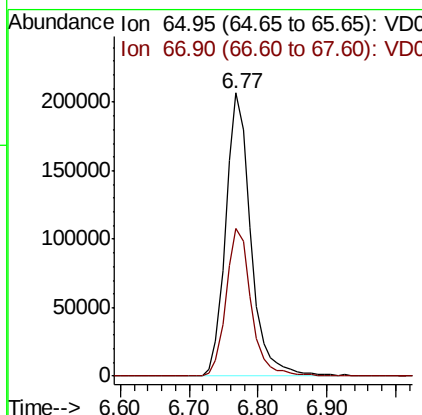
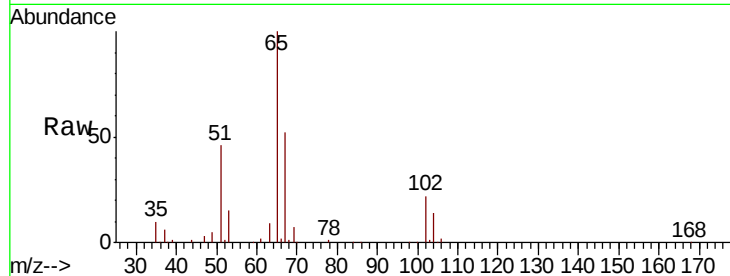




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.77 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VD060586.D
 Acq: 14 Dec 2018 21:15

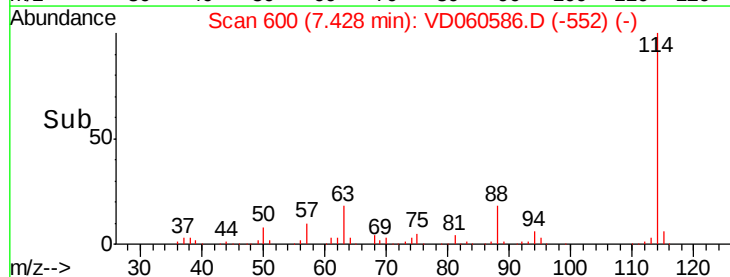
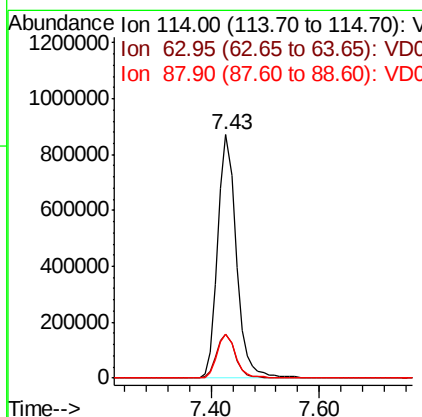
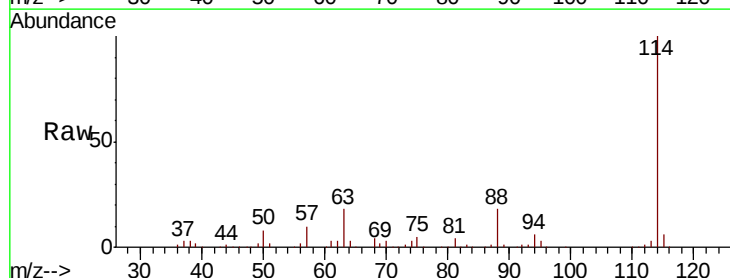
Instrument :
 MSVOA_D
 ClientSampled :

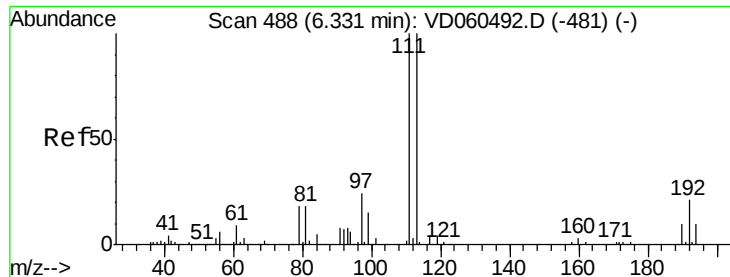
Tot Ion: 65 Resp: 521831
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. -0.02 min
 Lab File: VD060586.D
 Acq: 14 Dec 2018 21:15

Tgt Ion: 114 Resp: 2073029
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.2
 88 18.3 0.0 35.0

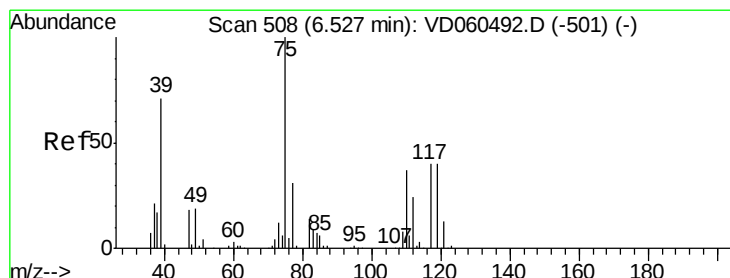
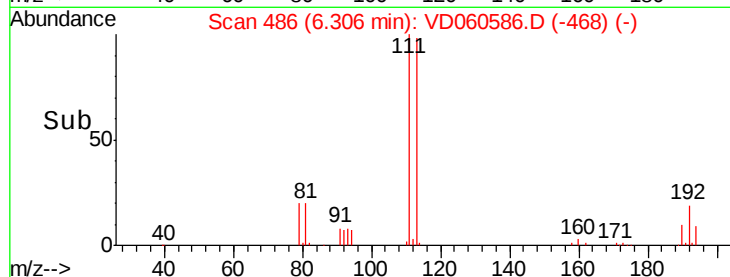
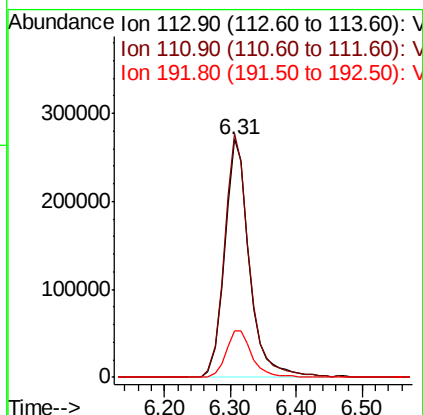
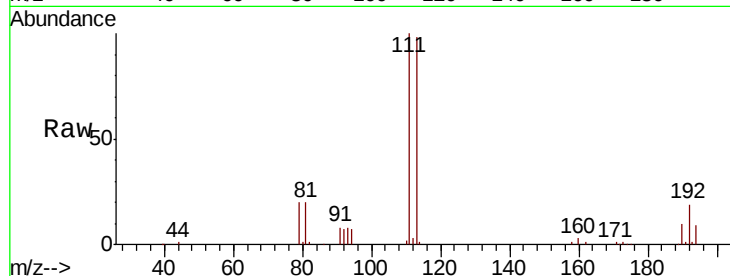




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: VD060586.D
 Acq: 14 Dec 2018 21:15

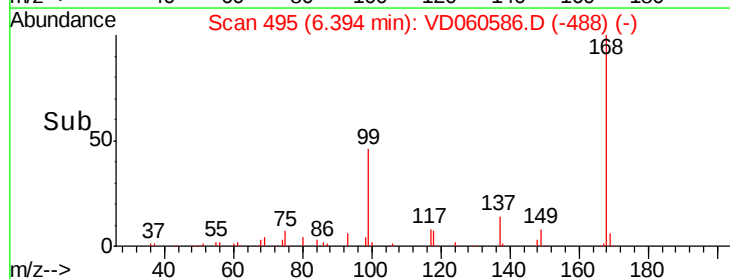
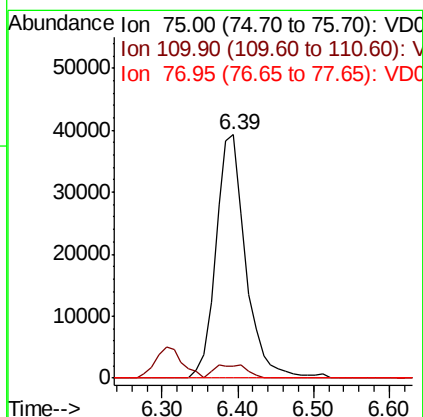
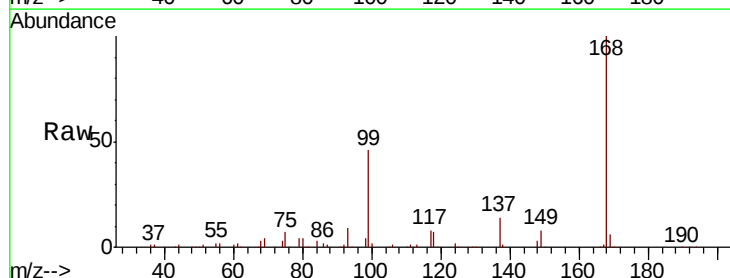
Instrument :
 MSVOA_D
 ClientSampleId :

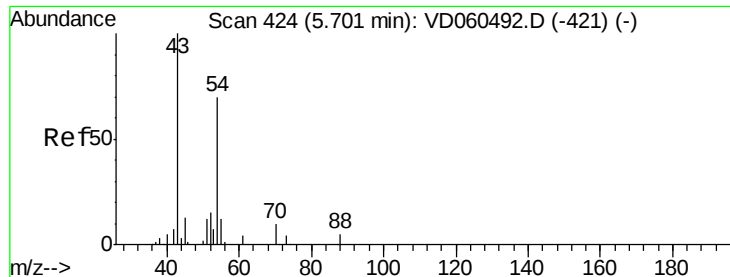
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.2	120.4
192	19.6	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 5.294 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.13 min
 Lab File: VD060586.D
 Acq: 14 Dec 2018 21:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.0	18.3	54.8#
77	0.0	24.6	37.0#

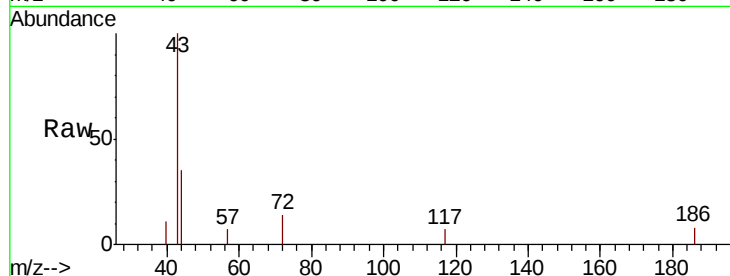




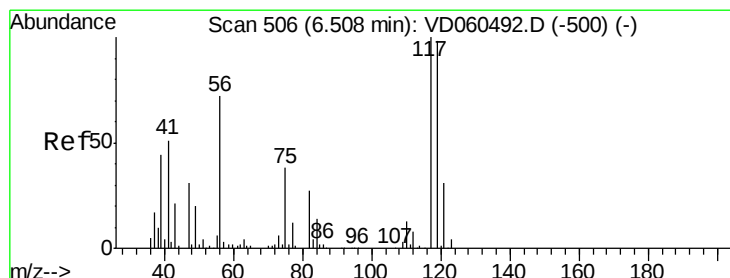
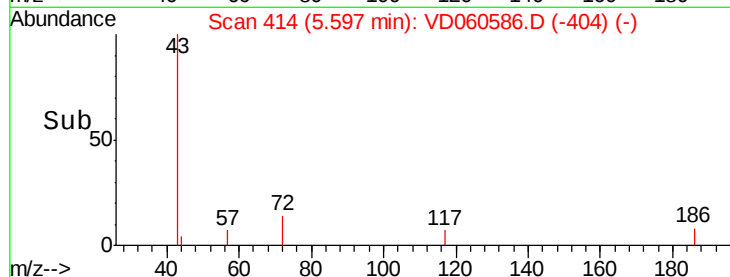
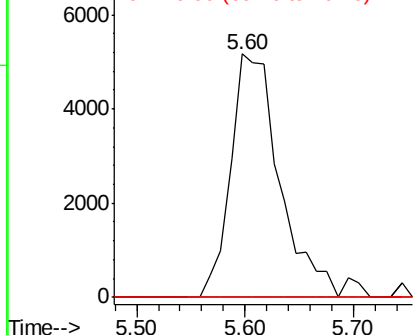
#37
Ethyl Acetate
Concen: 1.841 ug/l
RT: 5.60 min Scan# 414
Delta R.T. -0.10 min
Lab File: VD060586.D
Acq: 14 Dec 2018 21:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 16180
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#

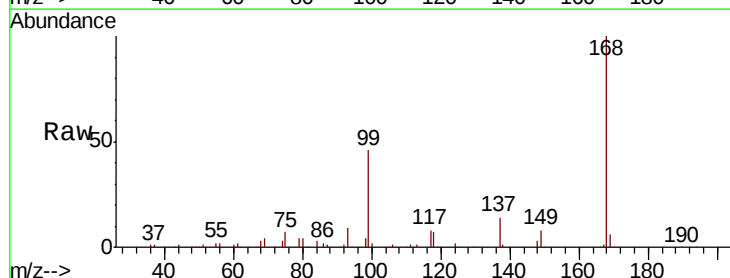


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

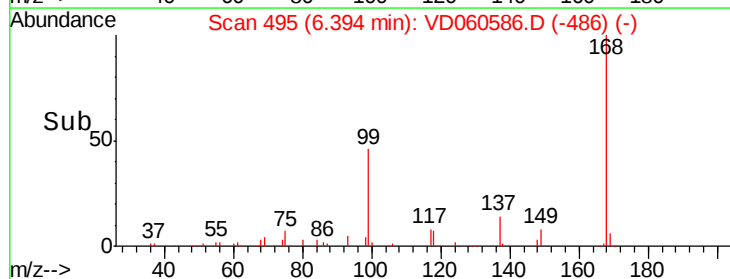
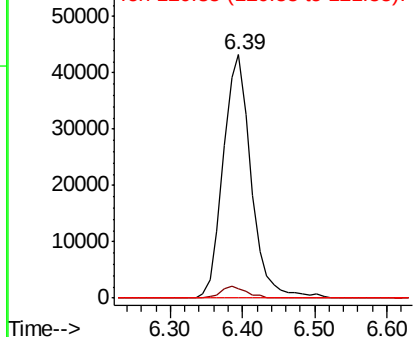


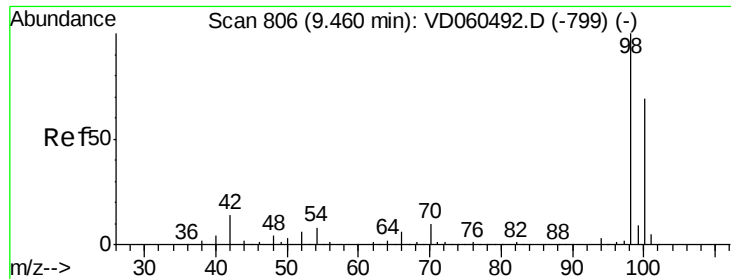
#38
Carbon Tetrachloride
Concen: 6.377 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.11 min
Lab File: VD060586.D
Acq: 14 Dec 2018 21:15

Tgt Ion: 117 Resp: 116014
Ion Ratio Lower Upper
117 100
119 3.9 76.8 115.2#
121 0.0 24.4 36.6#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.45 min Scan# 805

Delta R.T. -0.02 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

Instrument :

MSVOA_D

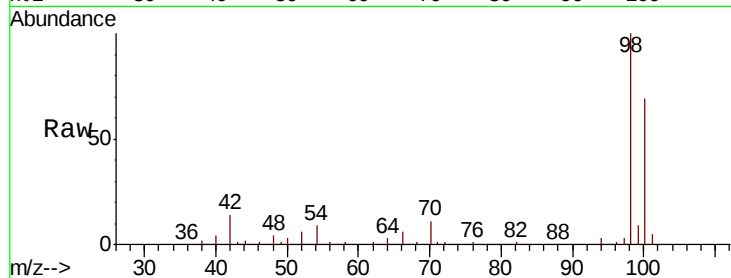
ClientSampled :

Tot Ion: 98 Resp: 2016303

Ion Ratio Lower Upper

98 100

100 69.4 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

9.45

1000000

800000

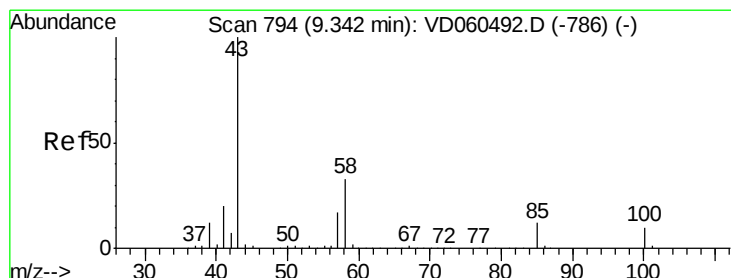
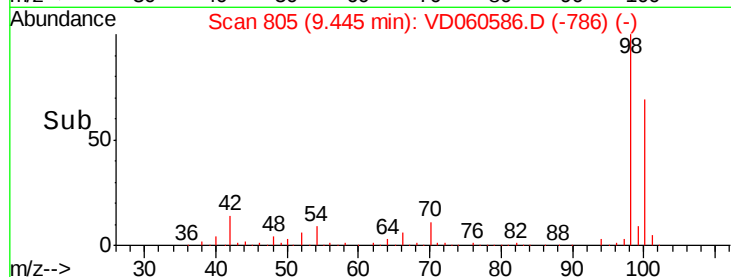
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.620 ug/l

RT: 9.45 min Scan# 805

Delta R.T. 0.10 min

Lab File: VD060586.D

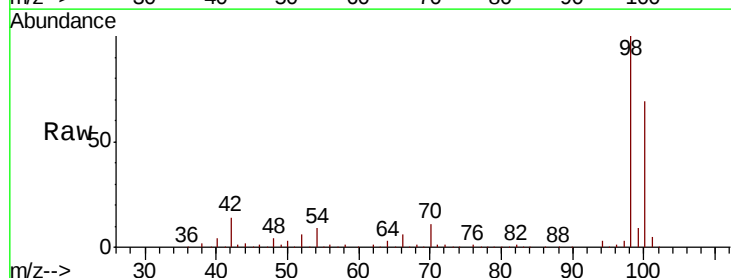
Acq: 14 Dec 2018 21:15

Tgt Ion: 43 Resp: 10929

Ion Ratio Lower Upper

43 100

58 147.3 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.45

8000

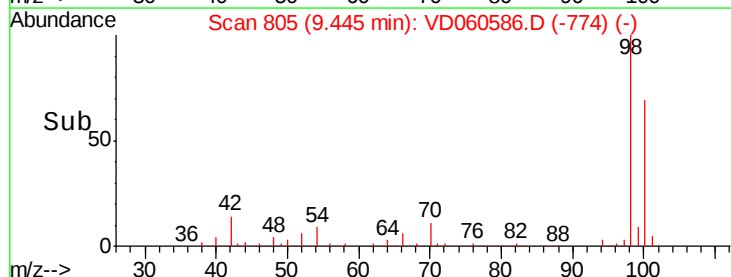
6000

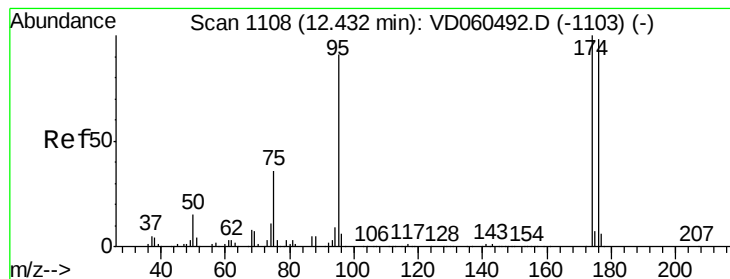
4000

2000

0

Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

Instrument :

MSVOA_D

ClientSampleId :

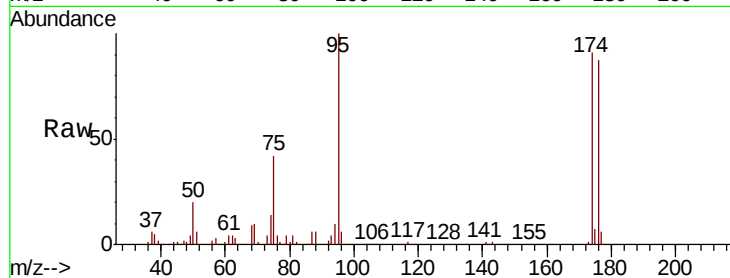
Tot Ion: 95 Resp: 644269

Ion Ratio Lower Upper

95 100

174 90.5 0.0 219.4

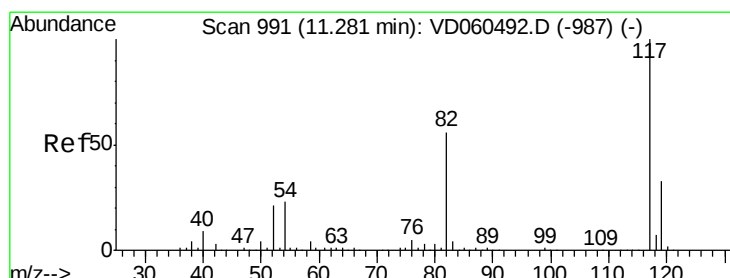
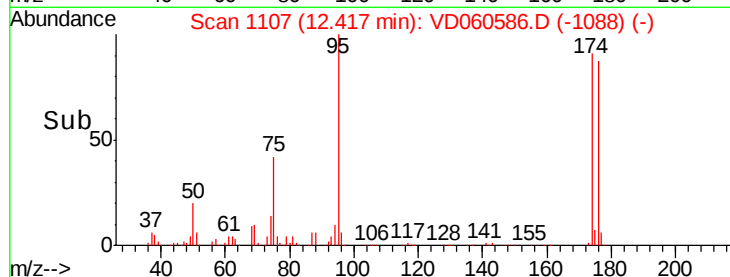
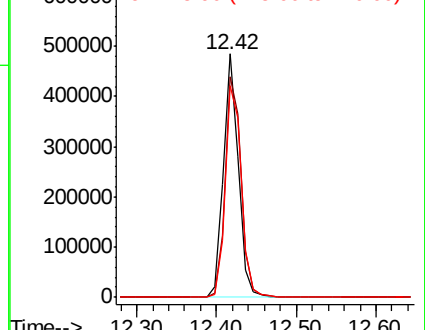
176 87.1 0.0 214.6



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: 11.28 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

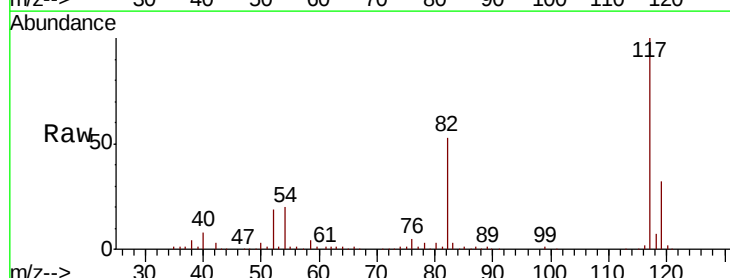
Tgt Ion: 117 Resp: 1542394

Ion Ratio Lower Upper

117 100

82 53.0 45.2 67.8

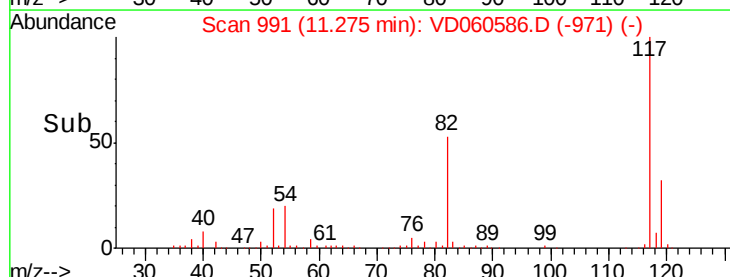
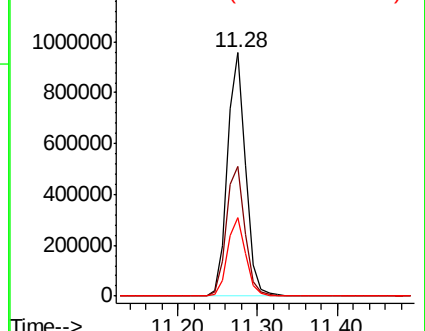
119 32.0 26.1 39.1

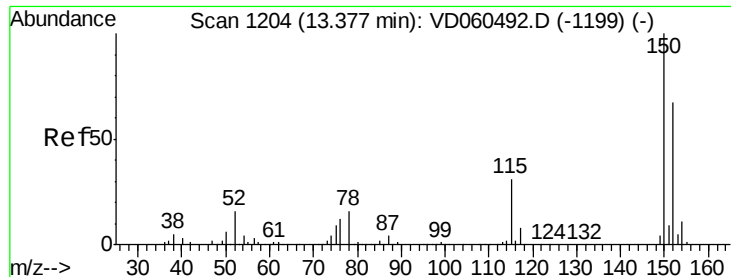


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



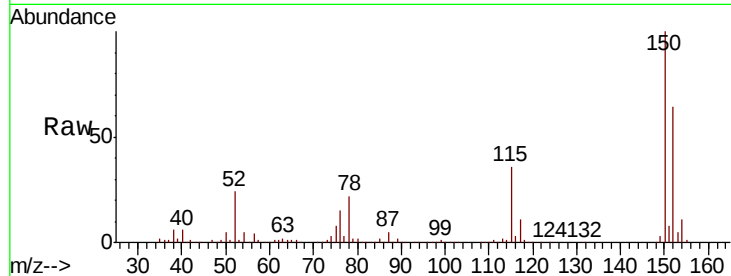


#72

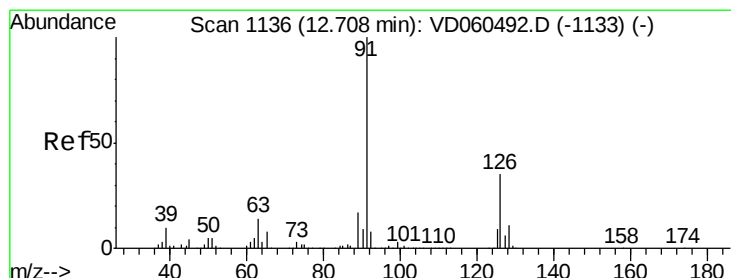
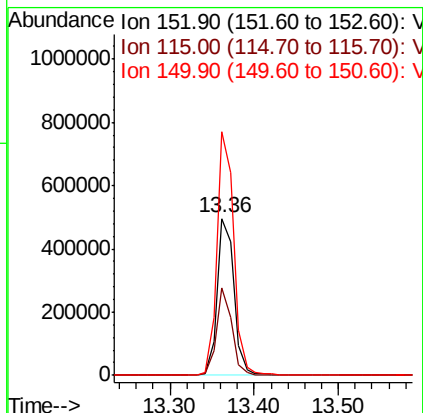
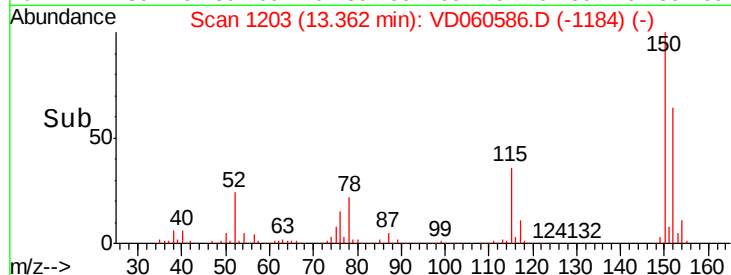
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VD060586.D
Acq: 14 Dec 2018 21:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 687870
Ion Ratio Lower Upper
152 100
115 55.5 24.6 74.0
150 155.5 0.0 309.0



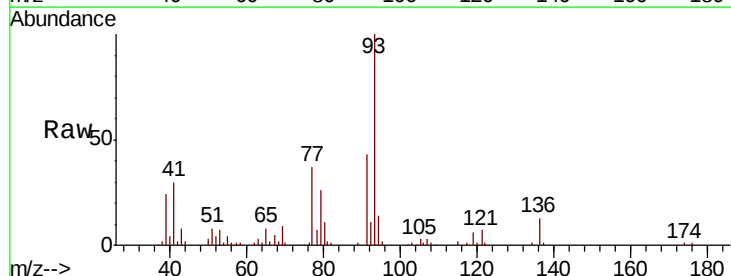
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



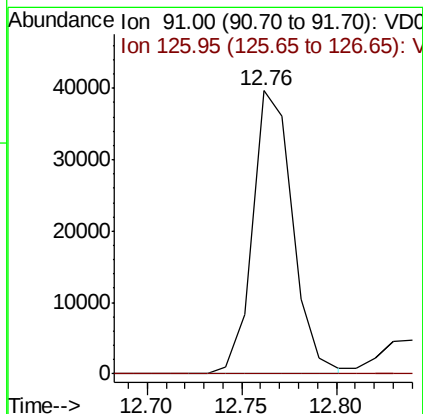
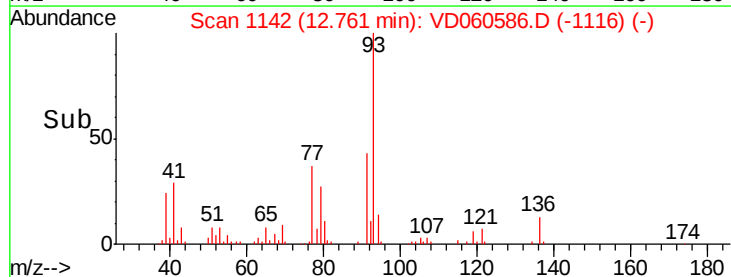
#79

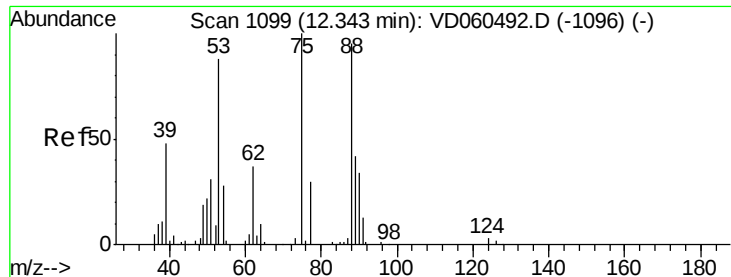
2-Chlorotoluene
Concen: 1.740 ug/l
RT: 12.76 min Scan# 1142
Delta R.T. 0.05 min
Lab File: VD060586.D
Acq: 14 Dec 2018 21:15

Tgt Ion: 91 Resp: 58089
Ion Ratio Lower Upper
91 100
126 0.0 17.3 52.0#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 122.901 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060586.D

Acq: 14 Dec 2018 21:15

Instrument :

MSVOA_D

ClientSampleId :

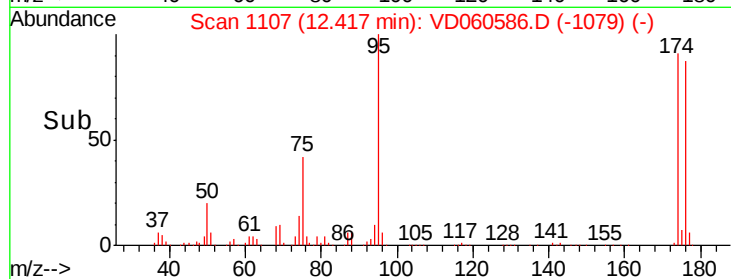
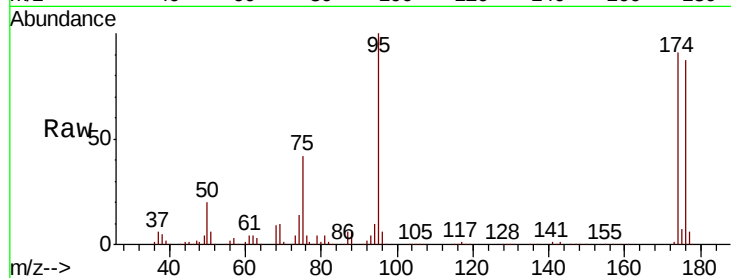
Tot Ion: 75 Resp: 267160

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 33.6 50.4#



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

