

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101819\
 Data File : VD064009.D
 Acq On : 18 Oct 2019 14:25
 Operator : VA/SY
 Sample : K5420-15
 Misc : 4.52G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 19 01:39:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	14428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	26851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	25761	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	14415	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	12669	90.19	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	180.38%	
35) Dibromofluoromethane	7.92	113	10521	64.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	128.24%	
50) Toluene-d8	10.34	98	33498	50.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	12.64	95	11123	48.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.12%	

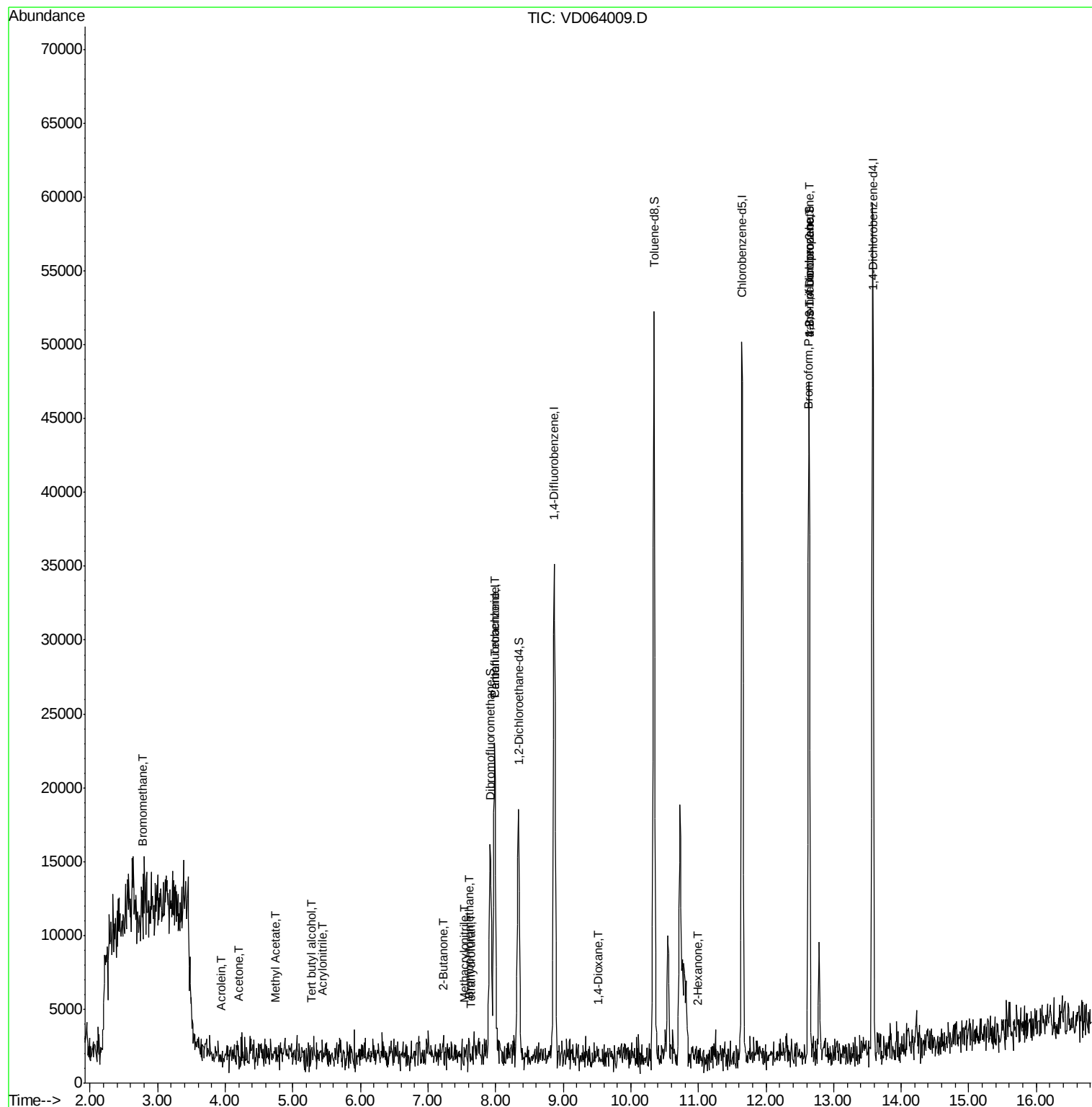
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	94	Below Cal	#	40
5) Bromomethane	2.77	94	311	1.463	ug/l #	5
11) Tert butyl alcohol	5.27	59	151	7.700	ug/l #	71
13) Acrolein	3.94	56	64	5.101	ug/l #	17
15) Acrylonitrile	5.44	53	138	4.460	ug/l #	17
16) Acetone	4.19	43	187	5.113	ug/l #	42
18) Methyl Acetate	4.74	43	146	2.041	ug/l #	49
20) Methylene Chloride	4.94	84	157	Below Cal	#	7
25) 2-Butanone	7.22	43	254	5.861	ug/l #	51
28) Bromochloromethane	7.61	49	69	2.555	ug/l #	10
29) Tetrahydrofuran	7.63	42	114	4.506	ug/l #	31
31) Cyclohexane	7.99	56	99	Below Cal	#	24
37) Ethyl Acetate	7.29	43	58	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	1779	7.171	ug/l #	15
41) Methacrylonitrile	7.54	41	152	2.670	ug/l #	28
49) 1,4-Dioxane	9.51	88	68	50.796	ug/l #	24
59) 2-Hexanone	10.99	43	149	1.929	ug/l #	24
71) Bromoform	12.63	173	166	1.623	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	5731	59.359	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	5731	105.042	ug/l #	12

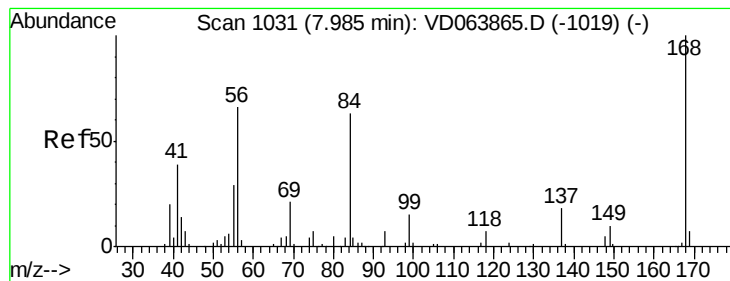
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

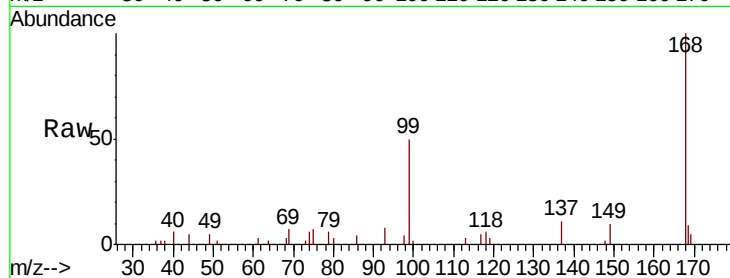
ClientSampleId :

Tot Ion:168 Resp: 14428

Ion Ratio Lower Upper

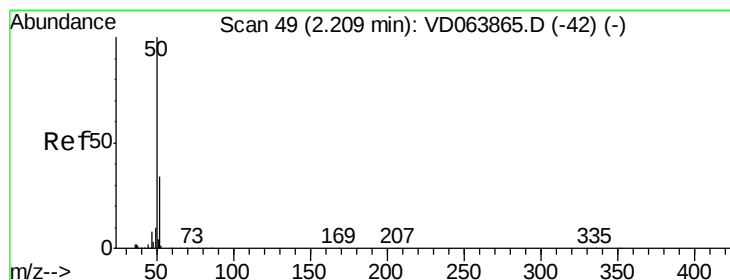
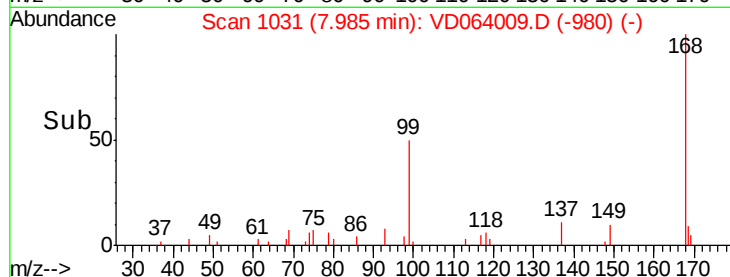
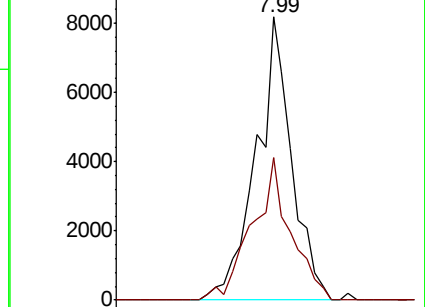
168 100

99 50.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064009.D

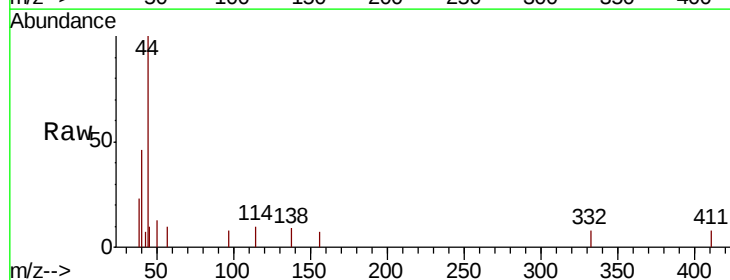
Acq: 18 Oct 2019 14:25

Tgt Ion: 50 Resp: 94

Ion Ratio Lower Upper

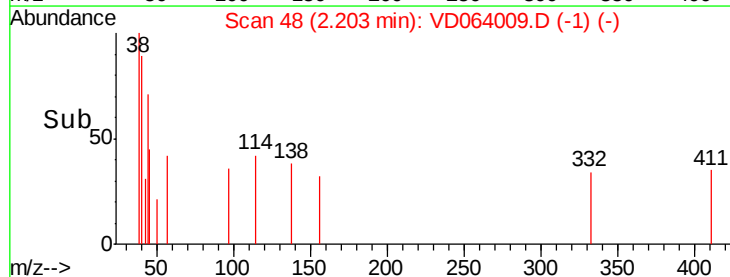
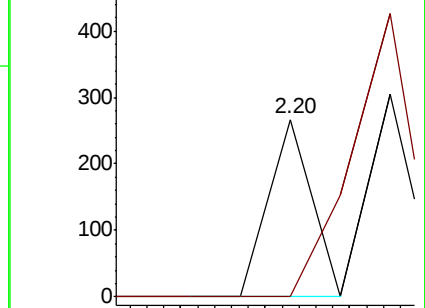
50 100

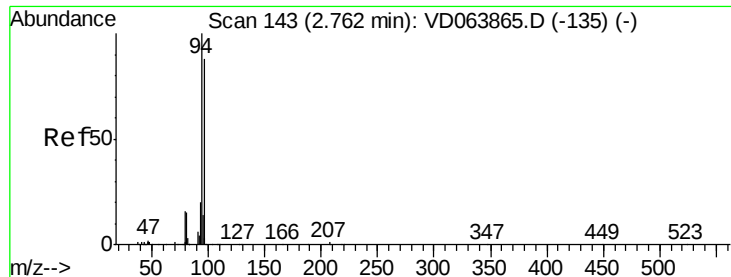
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 1.463 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

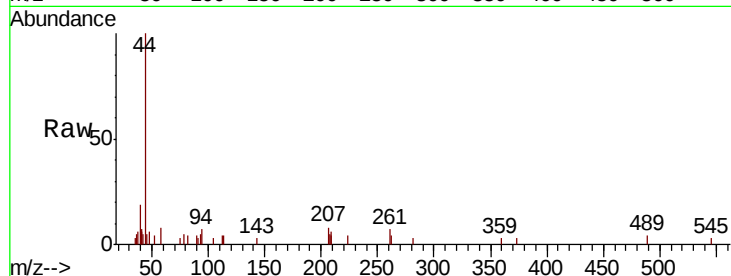
ClientSampled :

Tot Ion: 94 Resp: 311

Ion Ratio Lower Upper

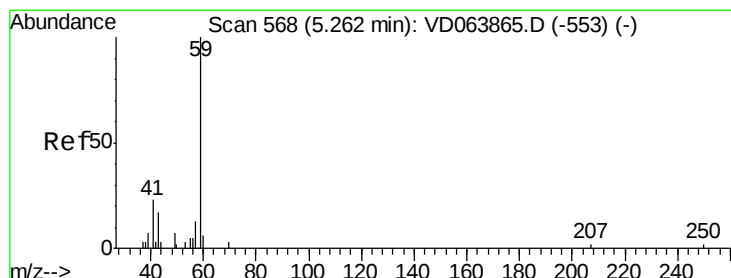
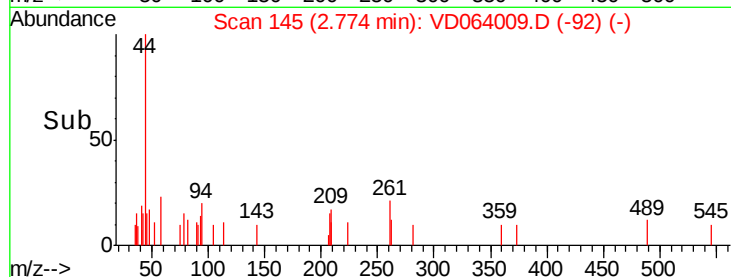
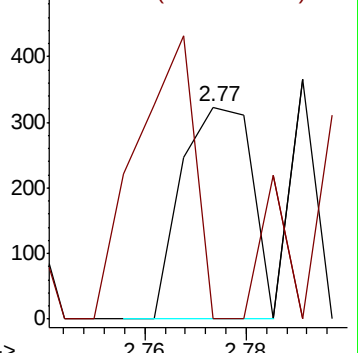
94 100

96 0.0 70.8 106.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: 7.700 ug/l

RT: 5.27 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD064009.D

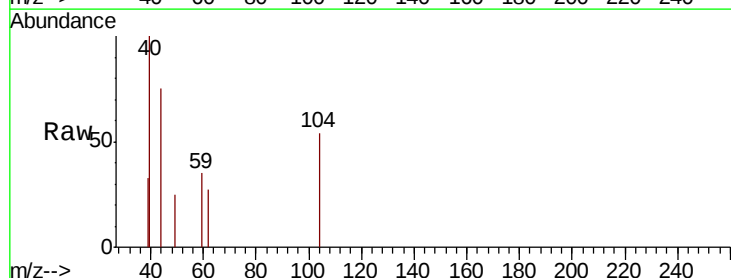
Acq: 18 Oct 2019 14:25

Tgt Ion: 59 Resp: 151

Ion Ratio Lower Upper

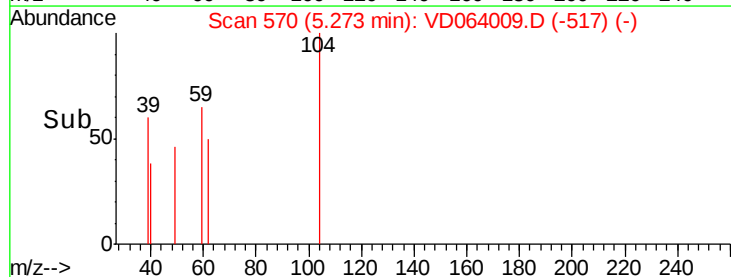
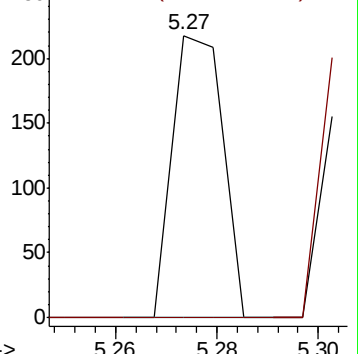
59 100

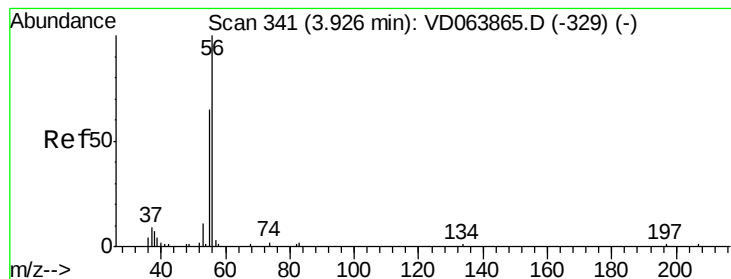
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#13

Acrolein

Concen: 5.101 ug/l

RT: 3.94 min Scan# 343

Delta R.T. 0.01 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

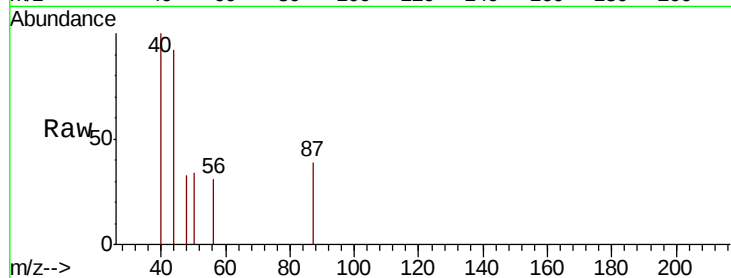
ClientSampleId :

Tot Ion: 56 Resp: 64

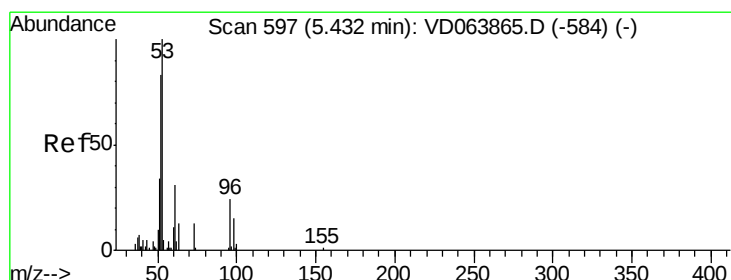
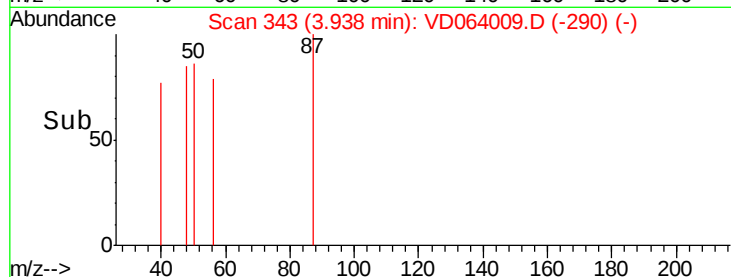
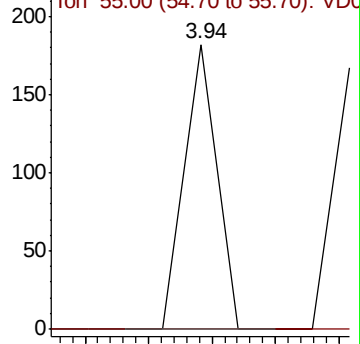
Ion Ratio Lower Upper

56 100

55 0.0 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC



#15

Acrylonitrile

Concen: 4.460 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.01 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

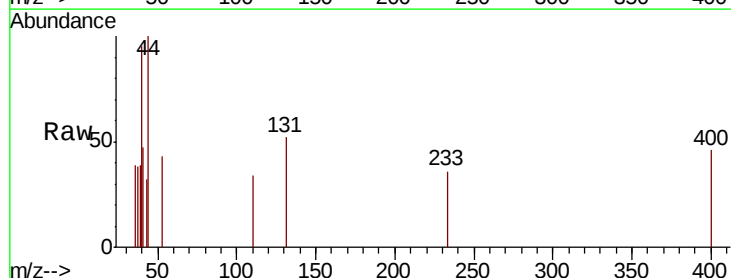
Tgt Ion: 53 Resp: 138

Ion Ratio Lower Upper

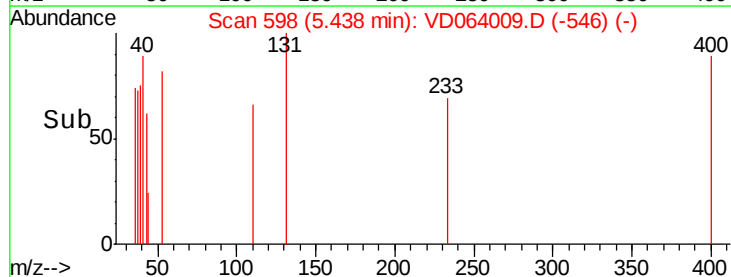
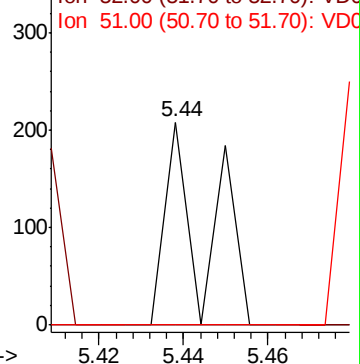
53 100

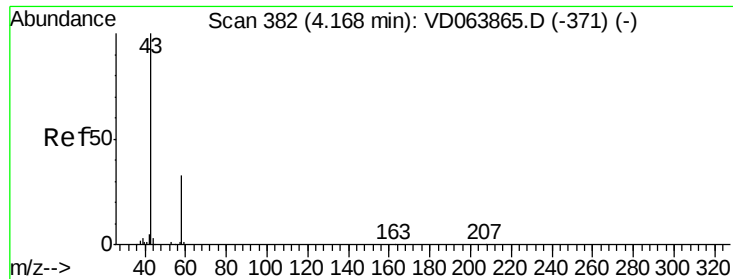
52 0.0 67.3 100.9#

51 0.0 30.5 45.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC





#16

Acetone

Concen: 5.113 ug/l

RT: 4.19 min Scan# 386

Delta R.T. 0.02 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

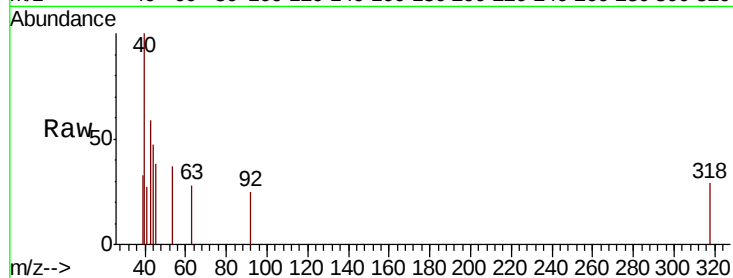
ClientSampleId :

Tot Ion: 43 Resp: 187

Ion Ratio Lower Upper

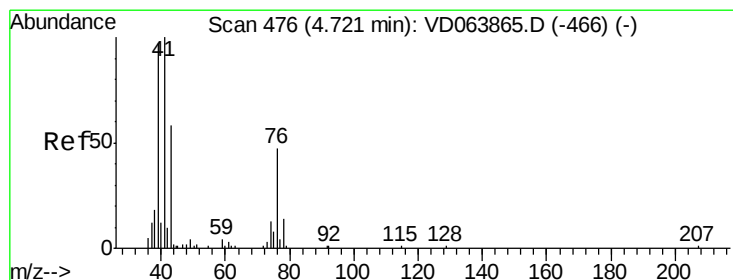
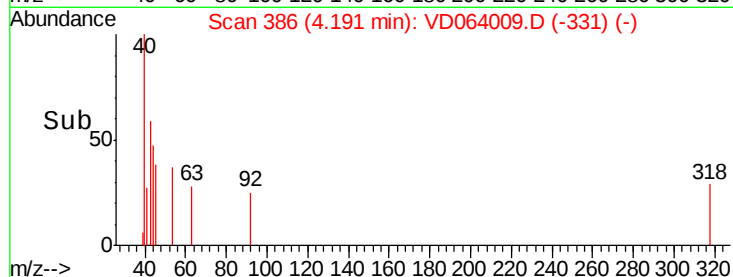
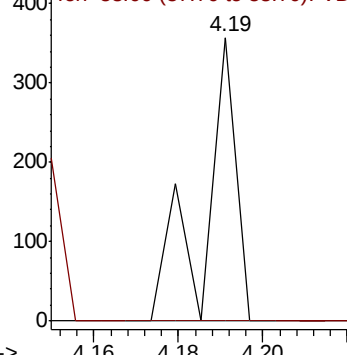
43 100

58 0.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 2.041 ug/l

RT: 4.74 min Scan# 479

Delta R.T. 0.02 min

Lab File: VD064009.D

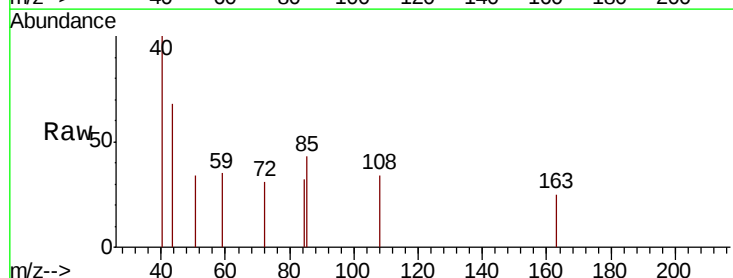
Acq: 18 Oct 2019 14:25

Tgt Ion: 43 Resp: 146

Ion Ratio Lower Upper

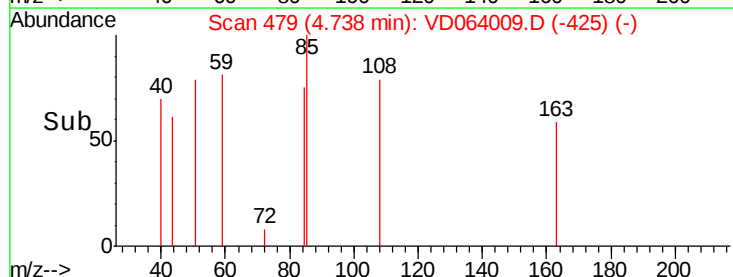
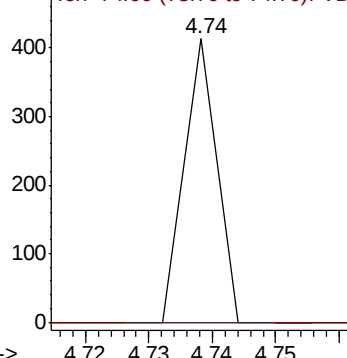
43 100

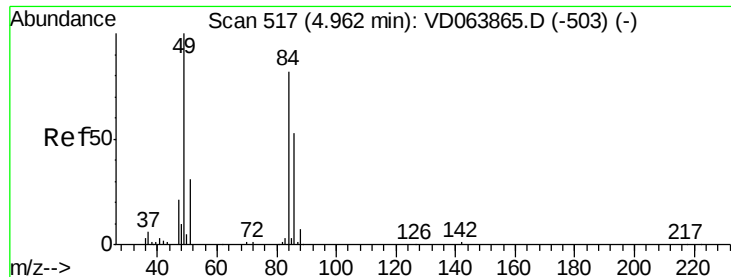
74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 4.94 min Scan# 514

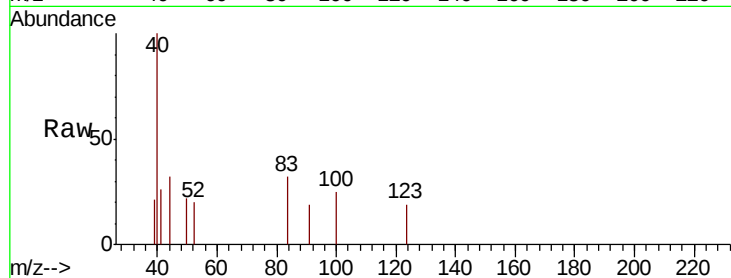
Delta R.T. -0.02 min

Lab File: VD064009.D

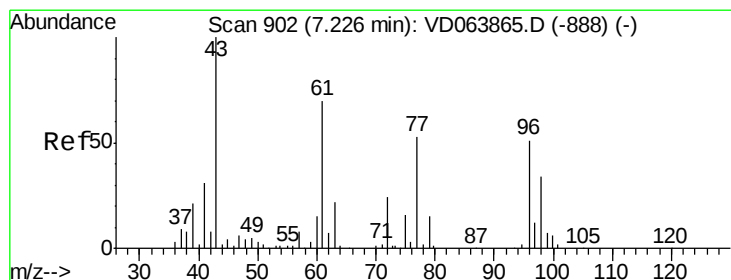
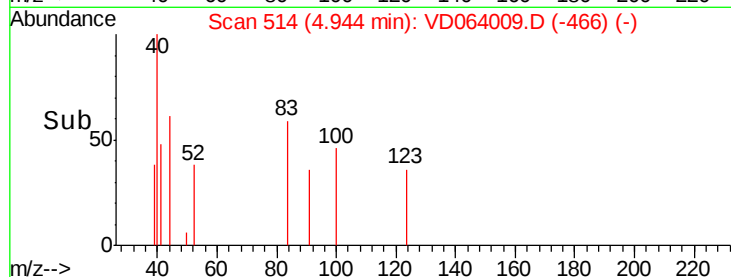
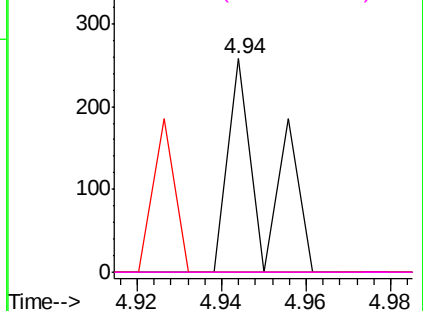
Acq: 18 Oct 2019 14:25

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	84	Resp:	157
Ion	Ratio	Lower	Upper
84	100		
49	0.0	97.3	145.9#
51	0.0	30.1	45.1#
86	0.0	51.4	77.2#



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: 5.861 ug/l

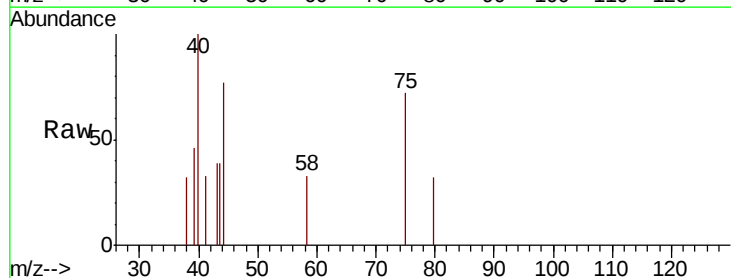
RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

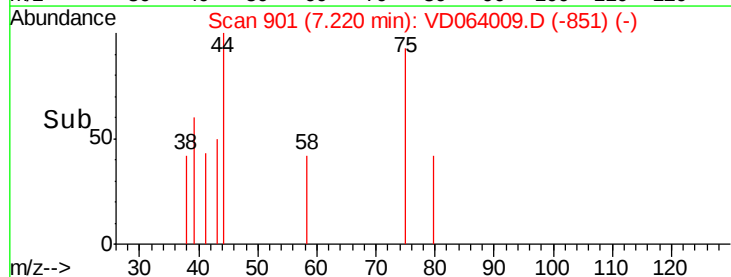
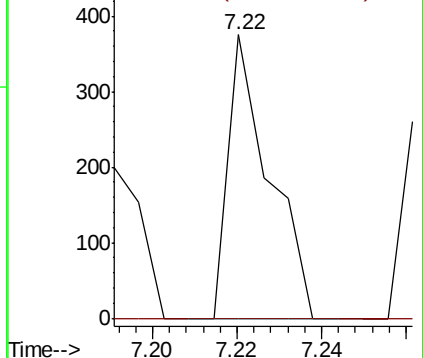
Lab File: VD064009.D

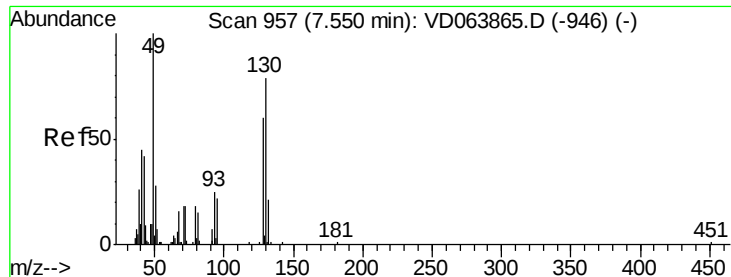
Acq: 18 Oct 2019 14:25

Tgt Ion:	43	Resp:	254
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.2	28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC





#28

Bromochloromethane

Concen: 2.555 ug/l

RT: 7.61 min Scan# 967

Delta R.T. 0.06 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

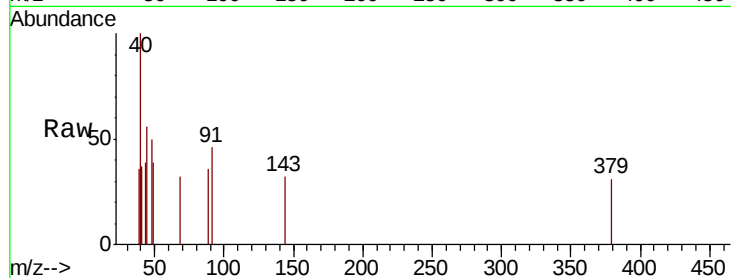
Tot Ion: 49 Resp: 69

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

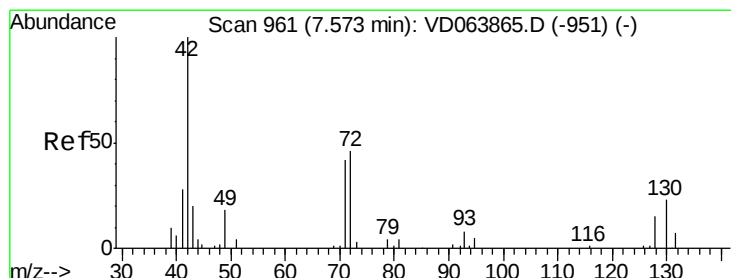
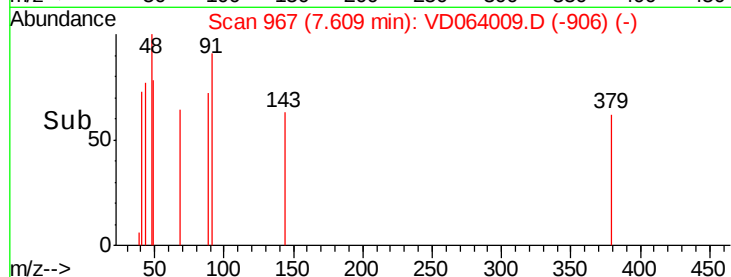
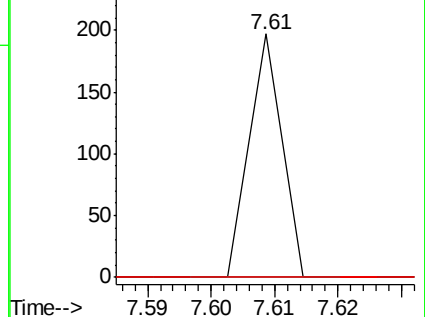
130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#29

Tetrahydrofuran

Concen: 4.506 ug/l

RT: 7.63 min Scan# 970

Delta R.T. 0.05 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

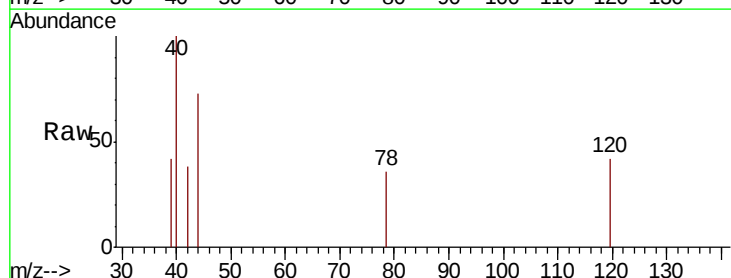
Tgt Ion: 42 Resp: 114

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

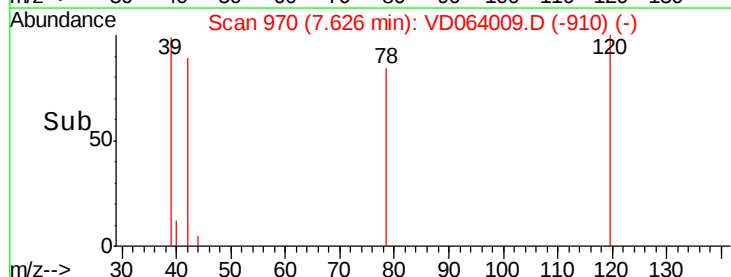
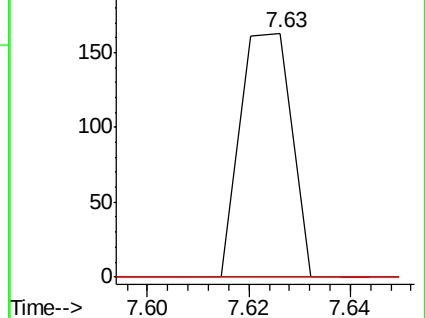
71 0.0 35.0 52.6#

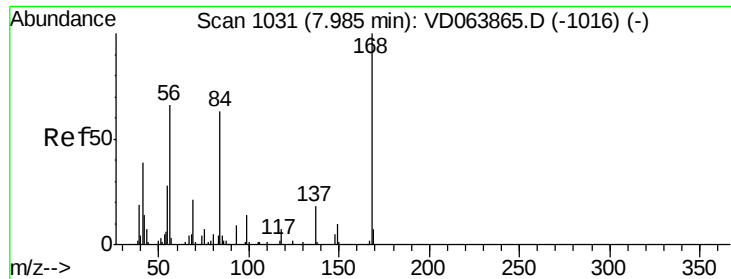


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

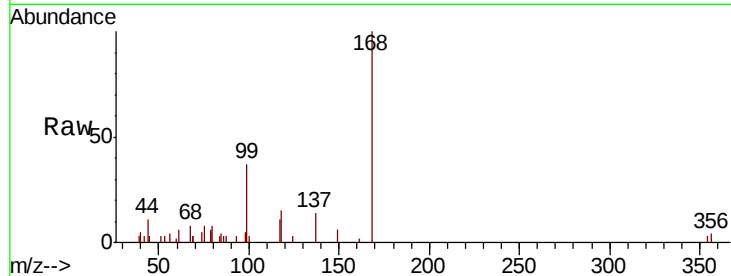




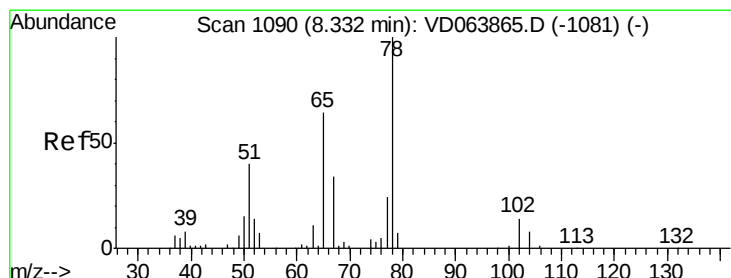
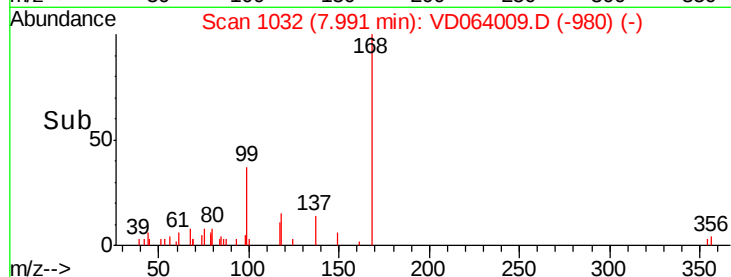
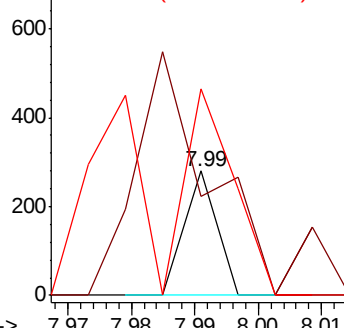
#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 56 Resp: 99
Ion Ratio Lower Upper
56 100
69 79.6 25.0 37.4#
84 165.7 76.3 114.5#

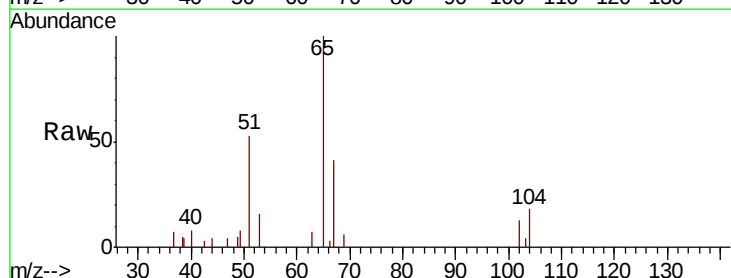


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

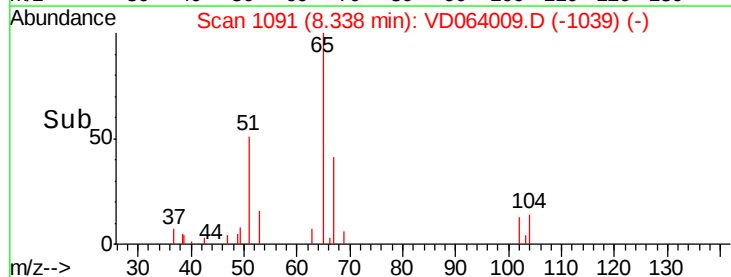
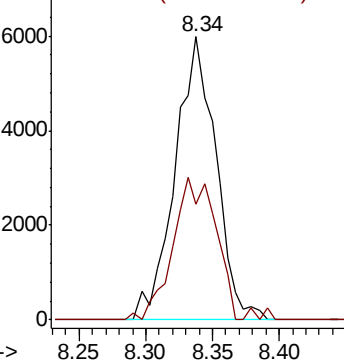


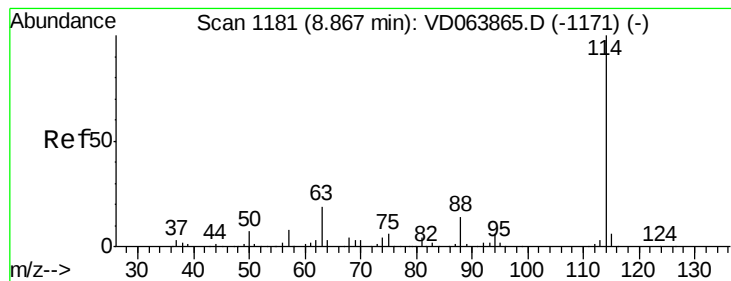
#33
1,2-Dichloroethane-d4
Concen: 90.192 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Tgt Ion: 65 Resp: 12669
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

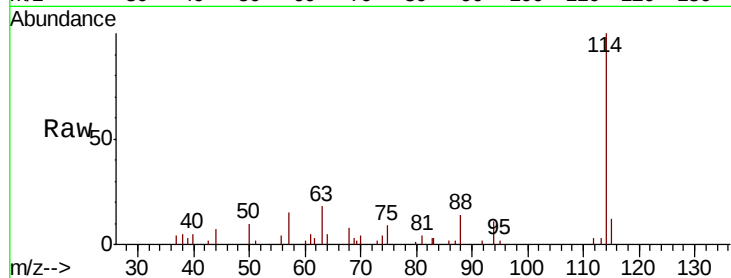
Tot Ion:114 Resp: 26851

Ion Ratio Lower Upper

114 100

63 17.6 0.0 38.4

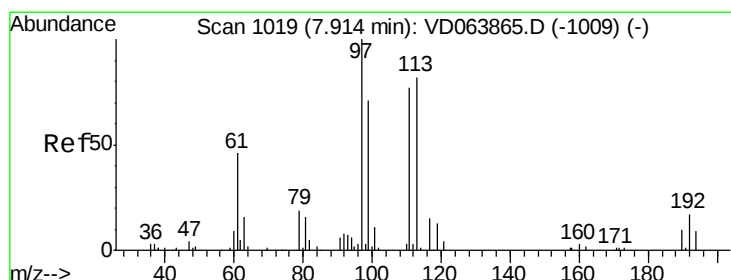
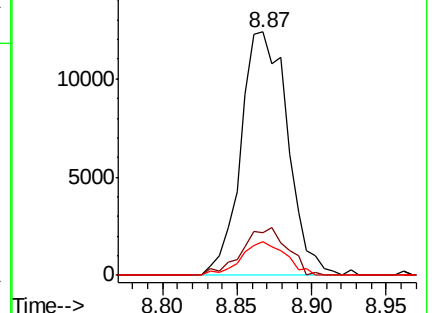
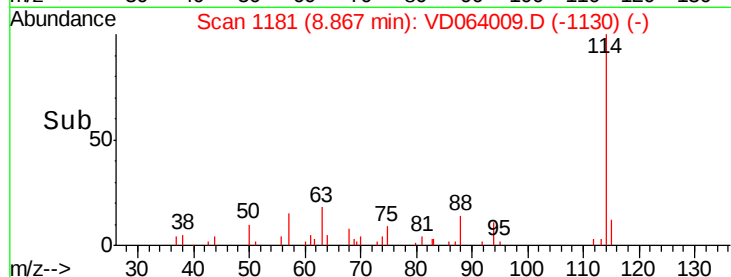
88 14.0 0.0 27.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 64.115 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

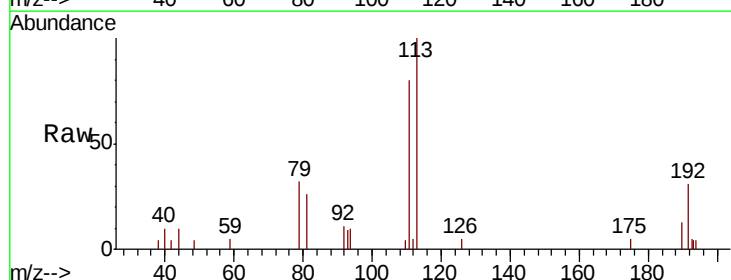
Tgt Ion:113 Resp: 10521

Ion Ratio Lower Upper

113 100

111 89.4 82.6 123.8

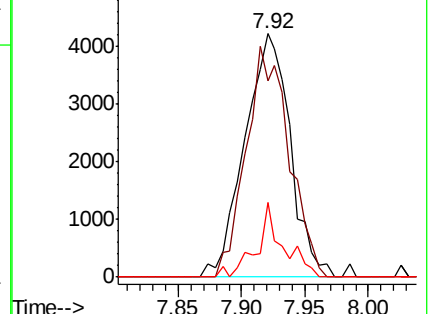
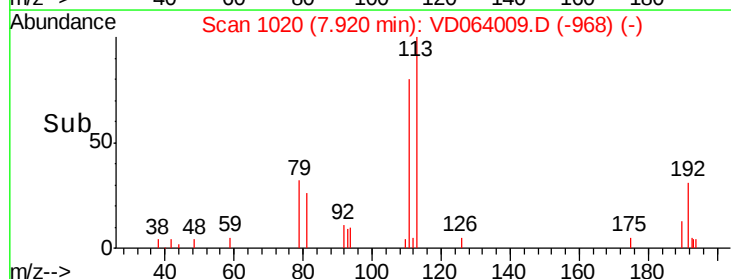
192 17.7 17.1 25.7

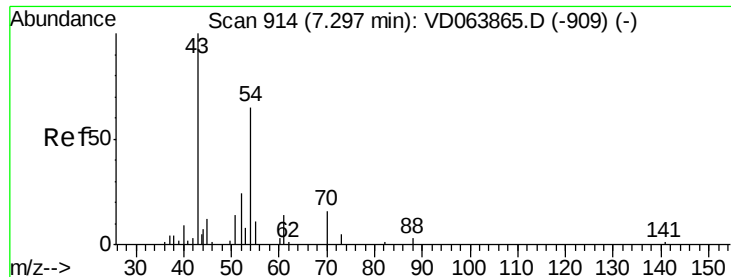


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

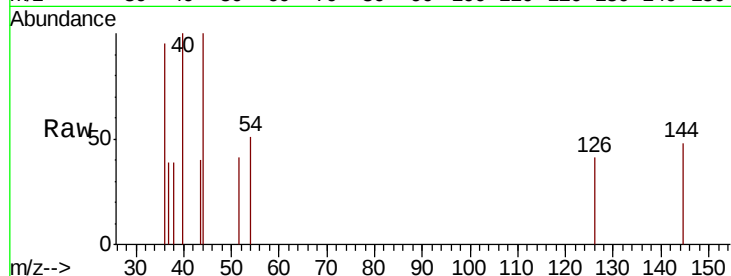




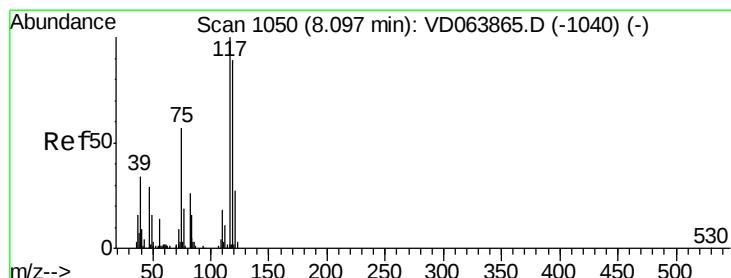
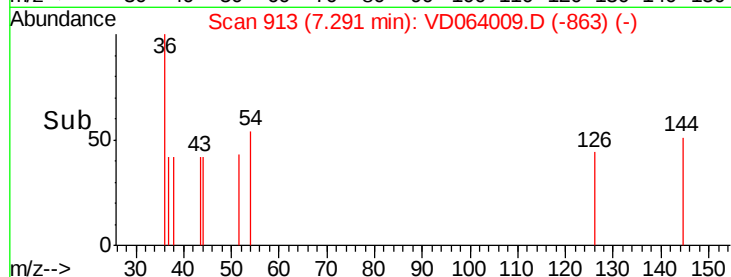
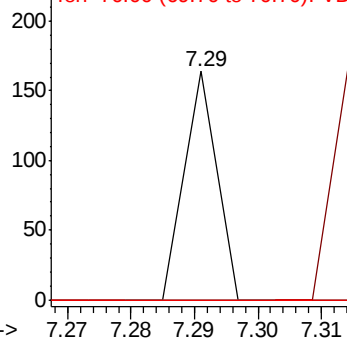
#37
Ethyl Acetate
Concen: Below Cal
RT: 7.29 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#

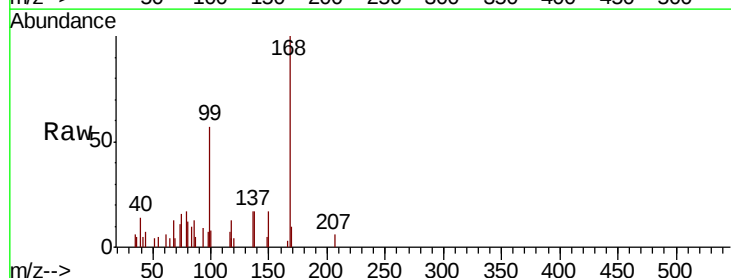


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

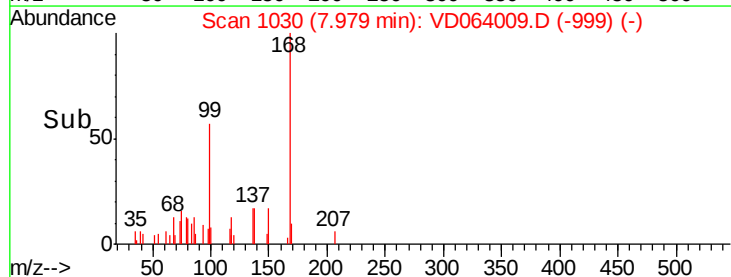
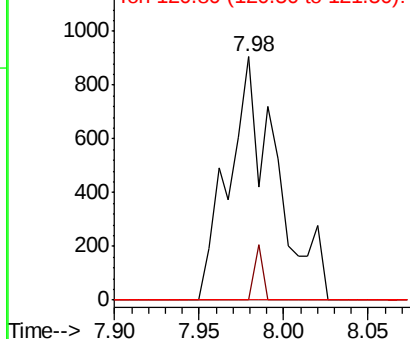


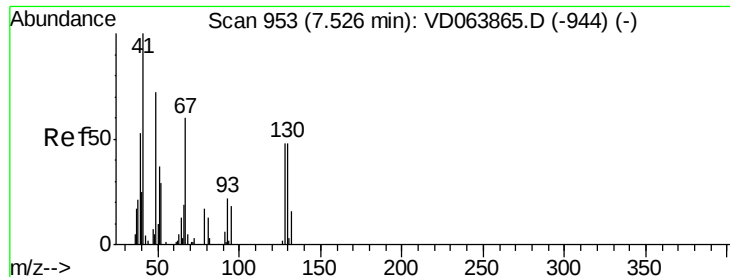
#38
Carbon Tetrachloride
Concen: 7.171 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Tgt Ion: 117 Resp: 1779
Ion Ratio Lower Upper
117 100
119 0.0 70.8 106.2#
121 0.0 21.4 32.0#



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

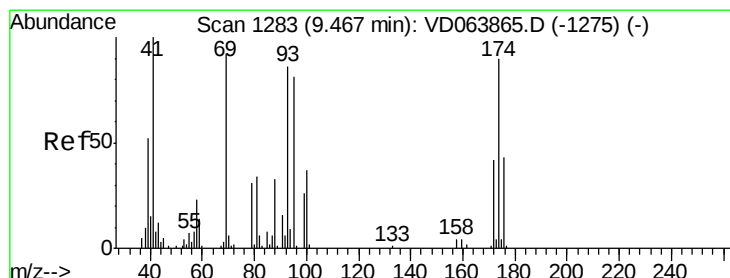
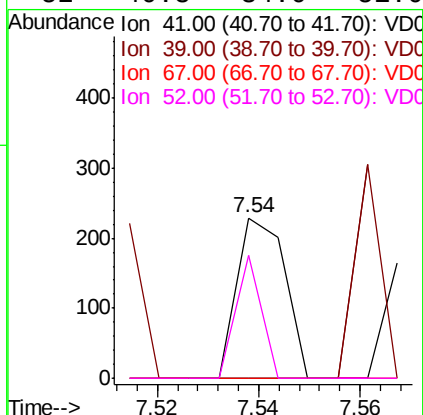
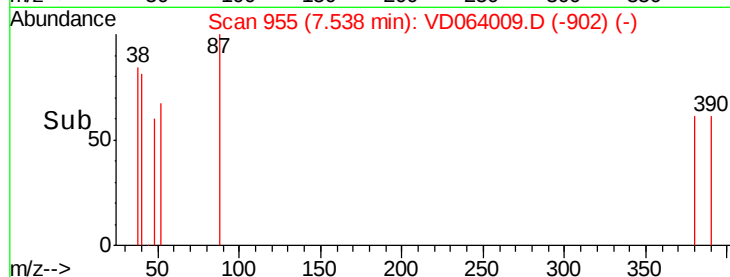
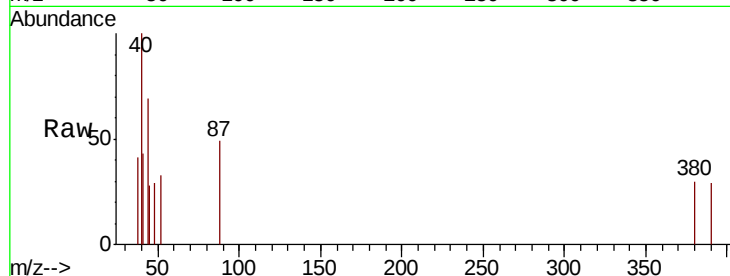




#41
Methacrylonitrile
Concen: 2.670 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

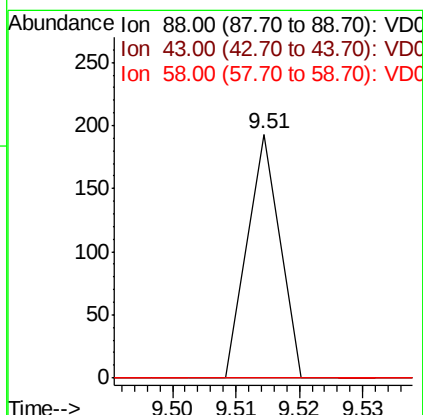
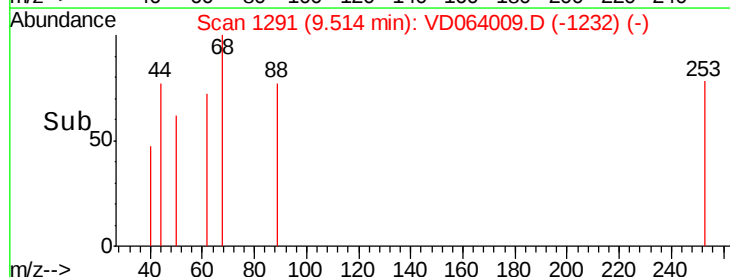
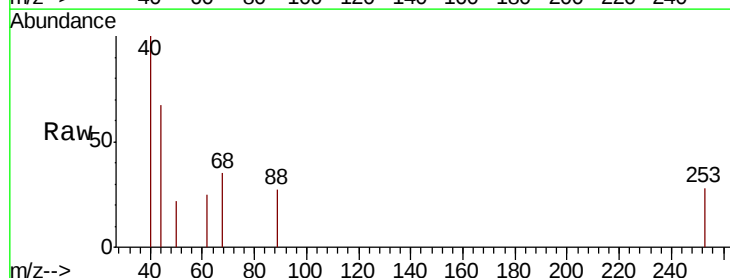
Instrument :
MSVOA_D
ClientSampled :

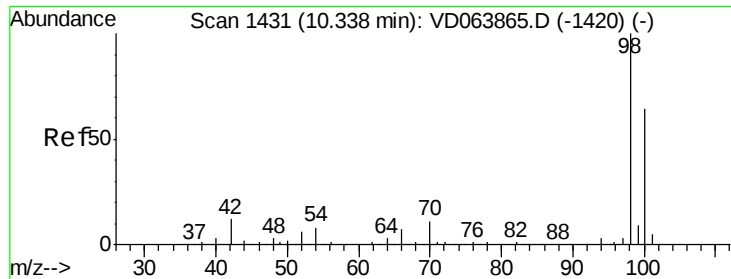
Tot Ion: 41 Resp: 152
Ion Ratio Lower Upper
41 100
39 0.0 52.6 78.8#
67 0.0 74.2 111.2#
52 40.8 34.0 51.0



#49
1,4-Dioxane
Concen: 50.796 ug/l
RT: 9.51 min Scan# 1291
Delta R.T. 0.05 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 27.6 41.4#
58 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 50.295 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

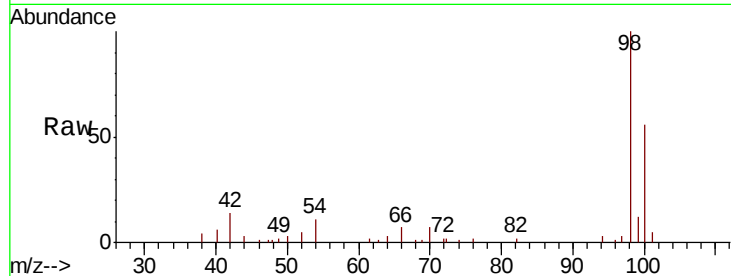
ClientSampled :

Tot Ion: 98 Resp: 33498

Ion Ratio Lower Upper

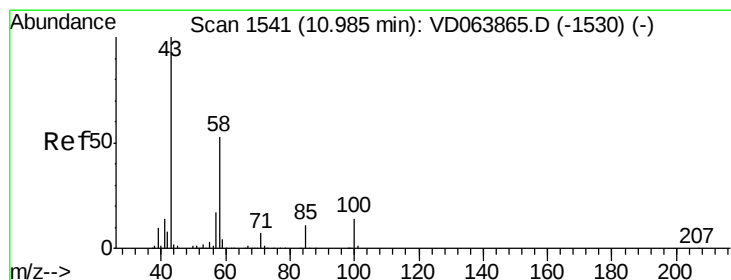
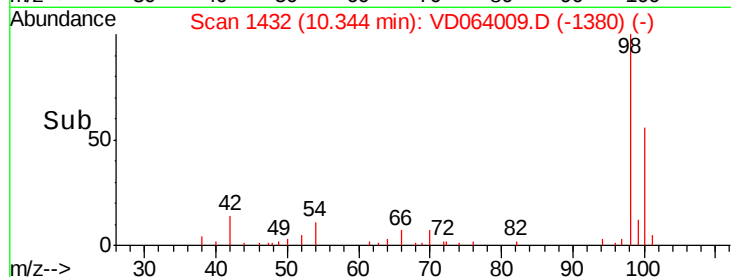
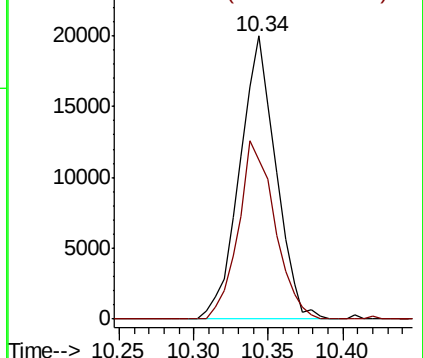
98 100

100 63.7 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#59

2-Hexanone

Concen: 1.929 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. 0.01 min

Lab File: VD064009.D

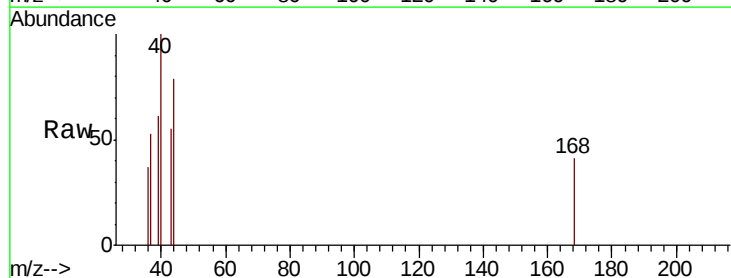
Acq: 18 Oct 2019 14:25

Tgt Ion: 43 Resp: 149

Ion Ratio Lower Upper

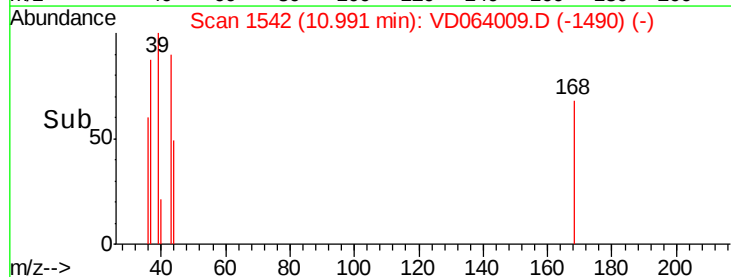
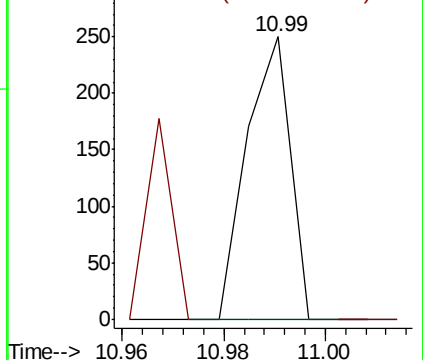
43 100

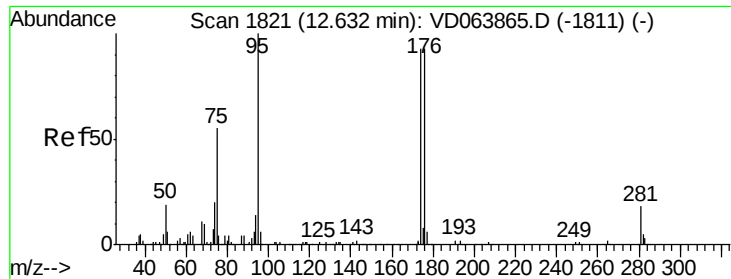
58 0.0 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

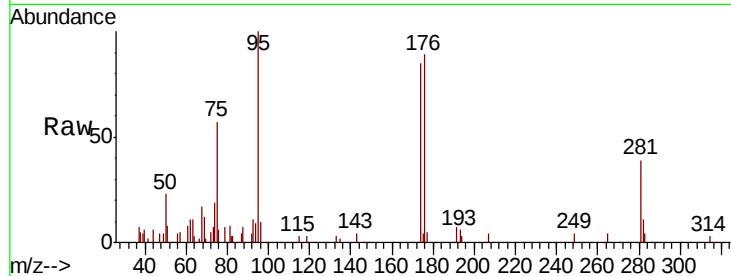




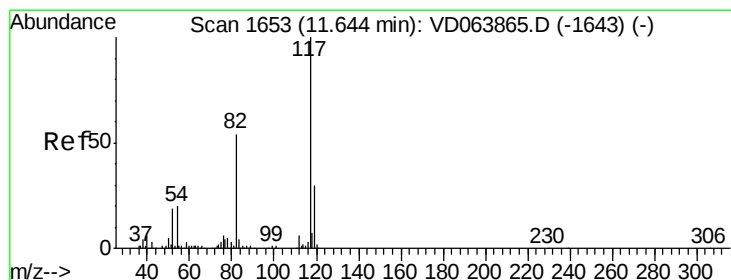
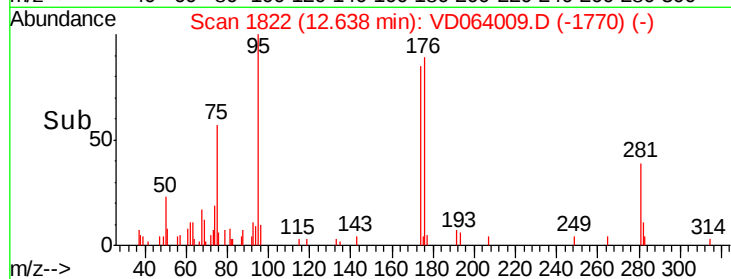
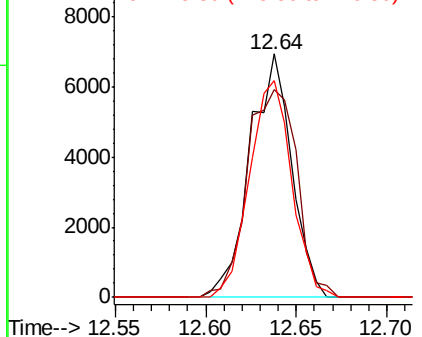
#62
4-Bromofluorobenzene
Concen: 48.059 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 11123
Ion Ratio Lower Upper
95 100
174 101.2 0.0 186.4
176 90.2 0.0 184.2

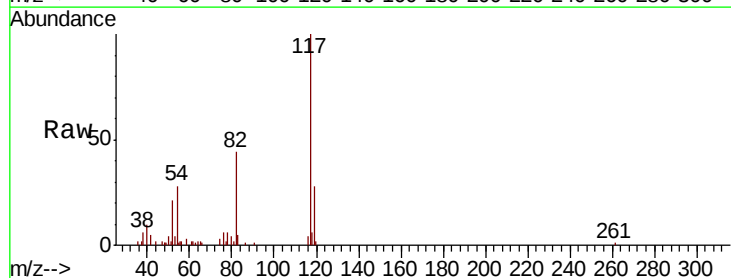


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

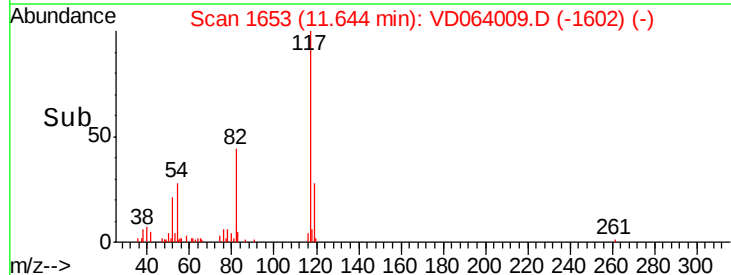
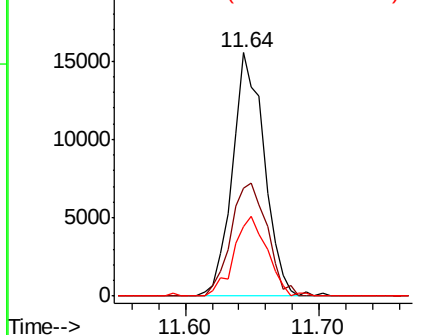


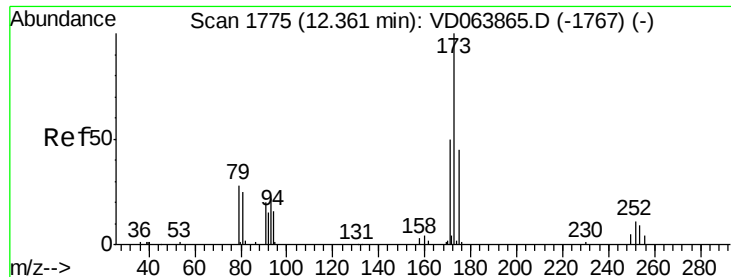
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD064009.D
Acq: 18 Oct 2019 14:25

Tgt Ion: 117 Resp: 25761
Ion Ratio Lower Upper
117 100
82 44.4 42.8 64.2
119 28.4 24.4 36.6



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





#71

Bromoform

Concen: 1.623 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. 0.26 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

Instrument :

MSVOA_D

ClientSampled :

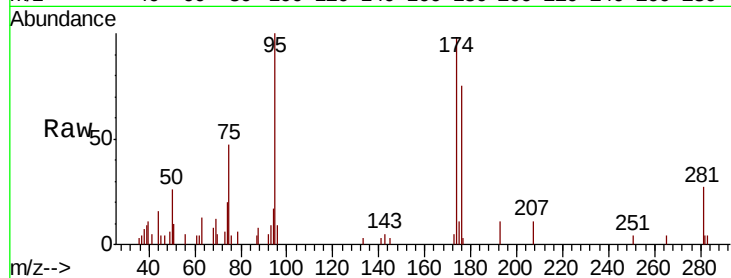
Tot Ion:173 Resp: 166

Ion Ratio Lower Upper

173 100

175 407.2 24.6 74.0#

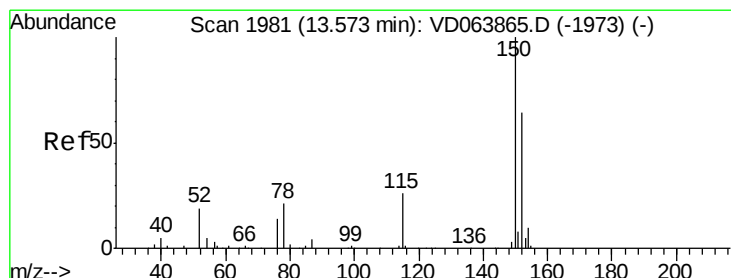
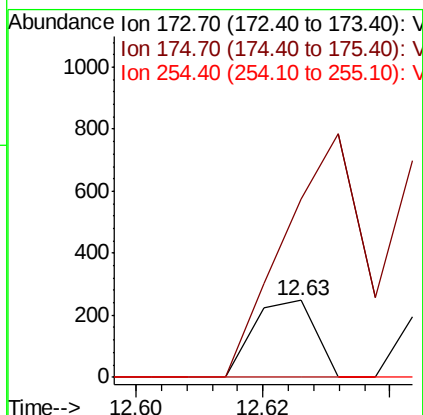
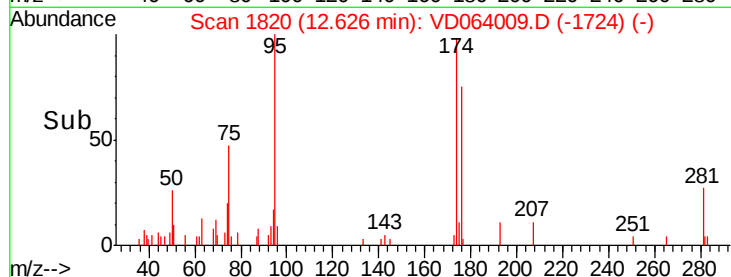
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD064009.D

Acq: 18 Oct 2019 14:25

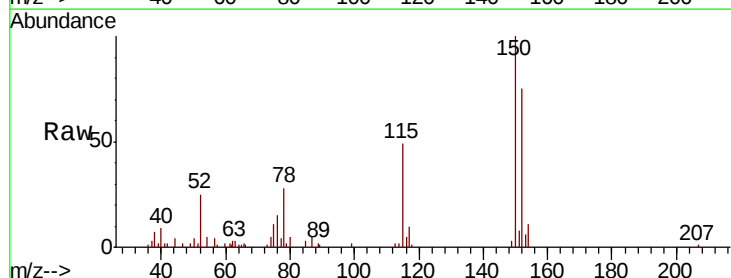
Tgt Ion:152 Resp: 14415

Ion Ratio Lower Upper

152 100

115 51.6 25.9 77.7

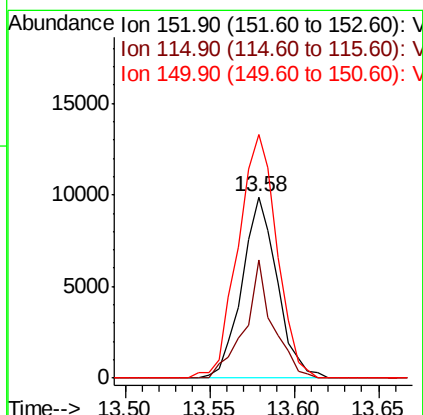
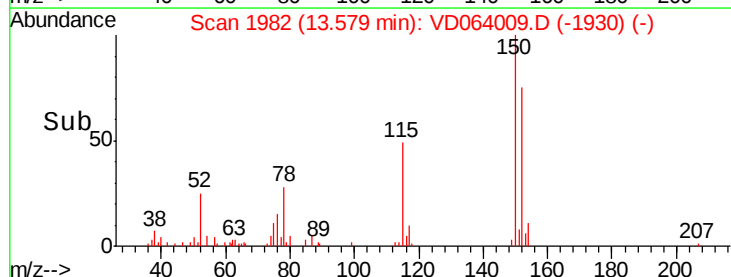
150 148.2 0.0 344.2

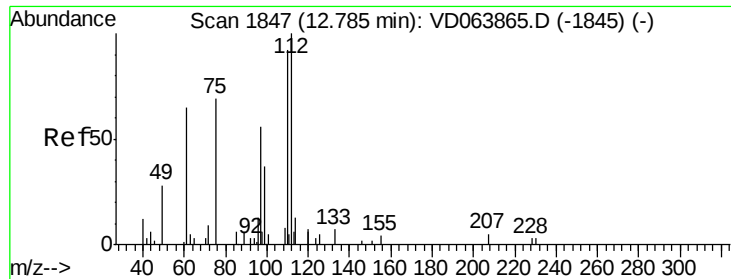


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

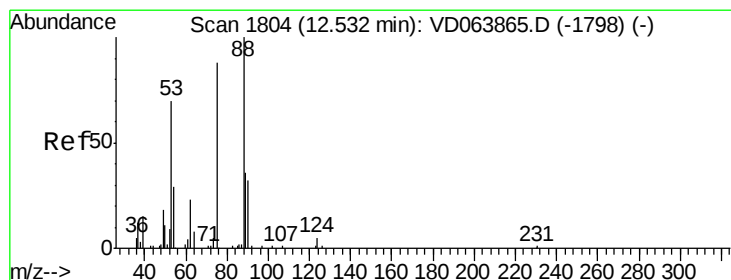
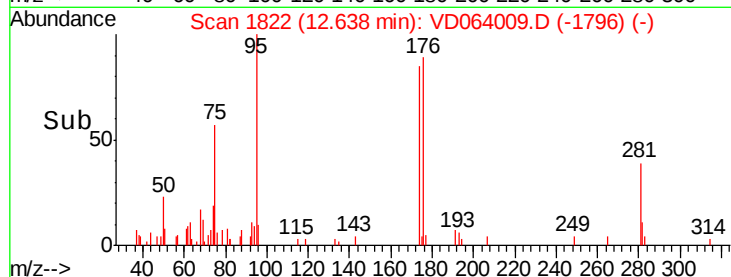
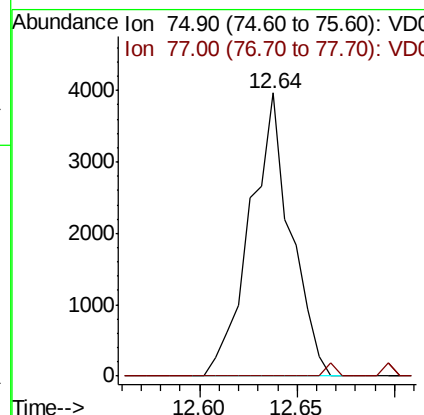
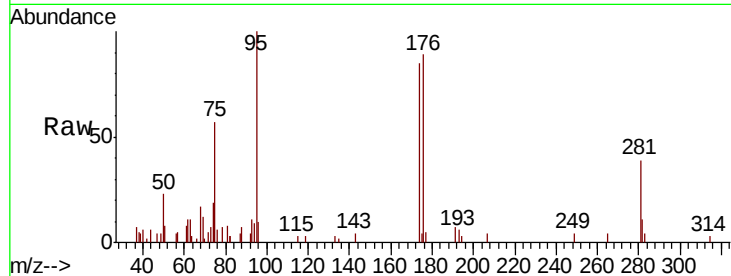




#76
 1,2,3-Trichloropropane
 Concen: 59.359 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064009.D
 Acq: 18 Oct 2019 14:25

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 5731
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.042 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD064009.D
 Acq: 18 Oct 2019 14:25

Tgt Ion: 75 Resp: 5731
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.0 112.6#
 89 0.0 38.2 57.4#

