

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD123019\
 Data File : VD064676.D
 Acq On : 30 Dec 2019 14:12
 Operator : VA/SY
 Sample : K6439-12RE
 Misc : 6.19G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 31 07:09:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	455829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	687273	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	614271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	274052	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	218380	54.33	ug/l	0.00
Spiked Amount						
			Recovery	=	108.66%	
35) Dibromofluoromethane	7.92	113	217550	51.59	ug/l	0.00
Spiked Amount						
			Recovery	=	103.18%	
50) Toluene-d8	10.34	98	818156	50.66	ug/l	0.00
Spiked Amount						
			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	12.64	95	248055	48.58	ug/l	0.00
Spiked Amount						
			Recovery	=	97.16%	

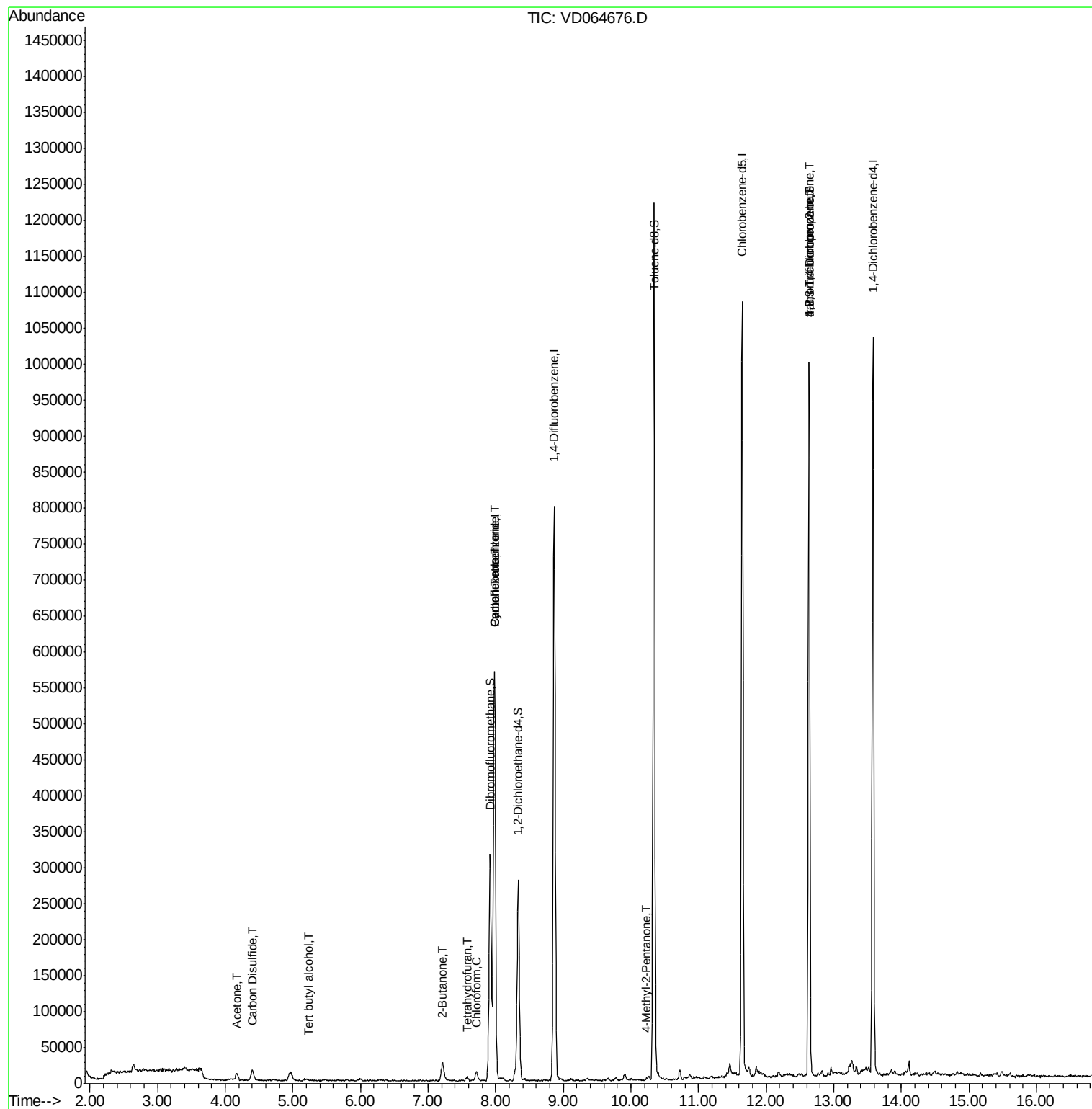
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	793	3.442	ug/l #	70
16) Acetone	4.17	43	17933	22.938	ug/l #	86
17) Carbon Disulfide	4.40	76	30570	2.357	ug/l #	90
20) Methylene Chloride	4.97	84	8872	Below Cal		90
25) 2-Butanone	7.22	43	2145	1.941	ug/l #	74
29) Tetrahydrofuran	7.58	42	3342	4.864	ug/l #	86
30) Chloroform	7.71	83	11423	1.454	ug/l	97
31) Cyclohexane	7.98	56	11011	1.469	ug/l #	31
38) Carbon Tetrachloride	7.98	117	43661	6.190	ug/l #	16
51) 4-Methyl-2-Pentanone	10.23	43	2960	1.158	ug/l	90
76) 1,2,3-Trichloropropane	12.64	75	134907	62.339	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	134907	130.380	ug/l #	10

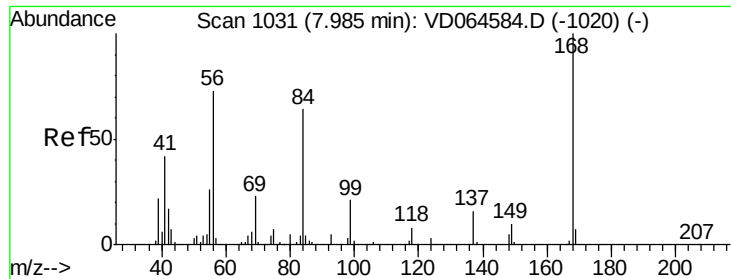
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

Instrument :

MSVOA_D

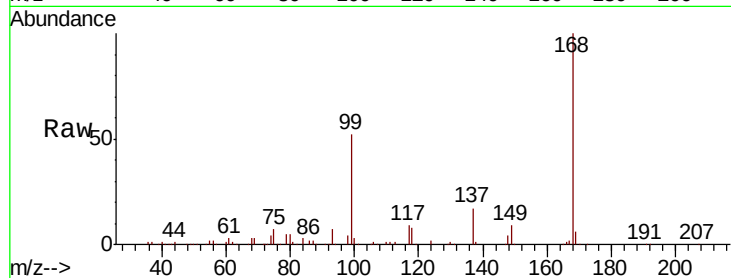
ClientSampleId :

Tot Ion:168 Resp: 455829

Ion Ratio Lower Upper

168 100

99 51.8 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

100000

50000

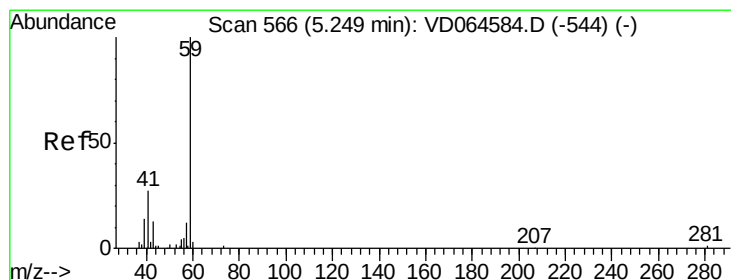
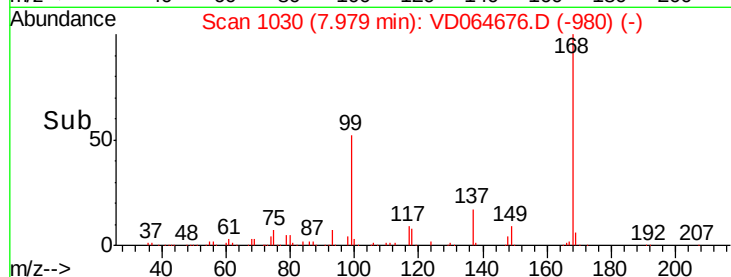
0

Time-->

7.90

8.00

8.10



#11

Tert butyl alcohol

Concen: 3.442 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD064676.D

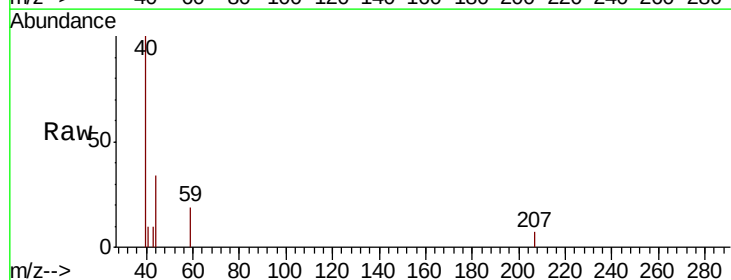
Acq: 30 Dec 2019 14:12

Tgt Ion: 59 Resp: 793

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

600

500

400

300

200

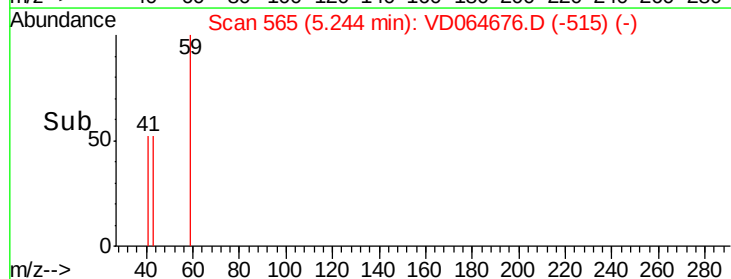
100

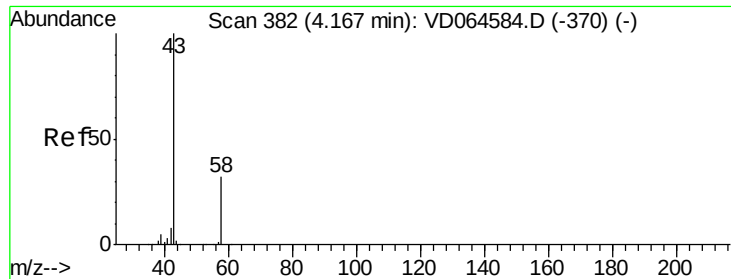
0

Time-->

5.25

5.30

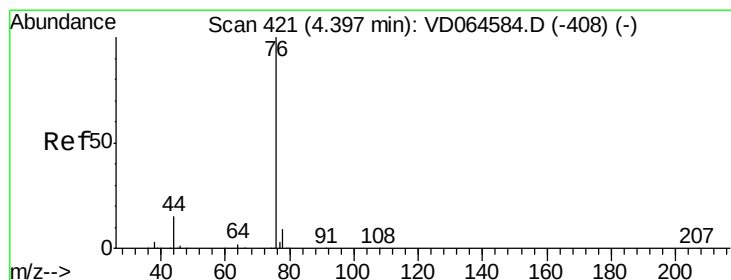
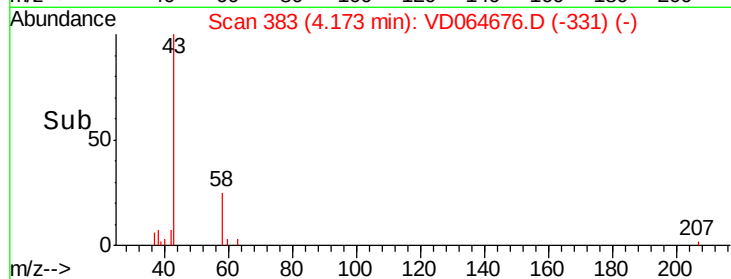
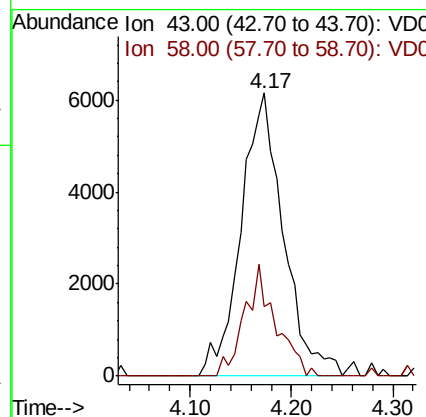
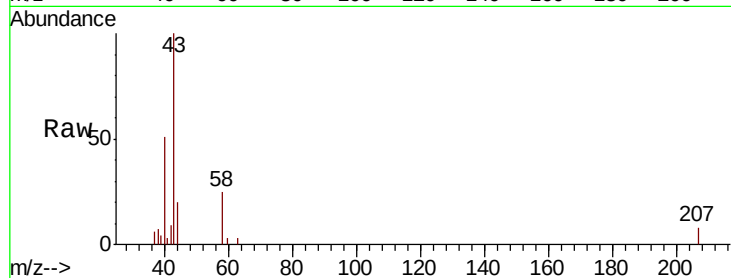




#16
Acetone
Concen: 22.938 ug/l
RT: 4.17 min Scan# 383
Delta R.T. 0.01 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

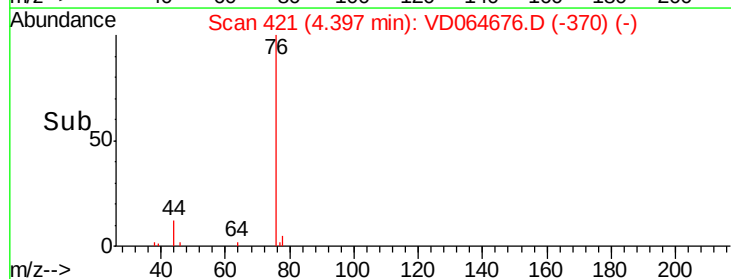
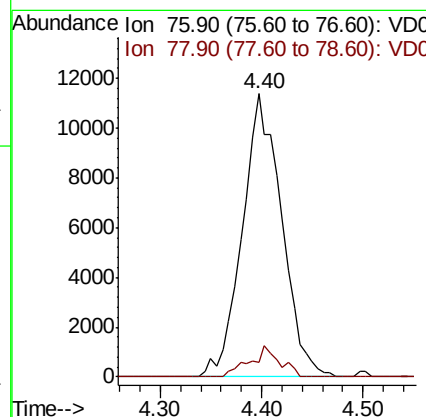
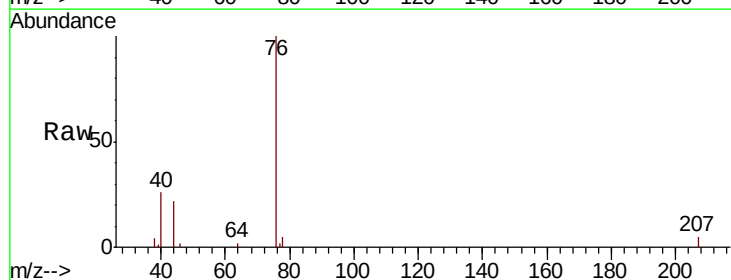
Instrument :
MSVOA_D
ClientSampleId :

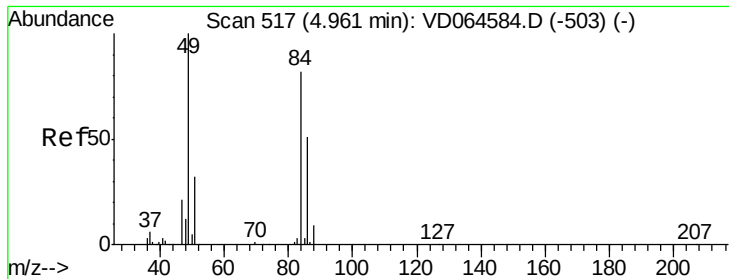
Tot Ion: 43 Resp: 17933
Ion Ratio Lower Upper
43 100
58 24.6 25.8 38.6#



#17
Carbon Disulfide
Concen: 2.357 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

Tgt Ion: 76 Resp: 30570
Ion Ratio Lower Upper
76 100
78 5.3 7.3 10.9#

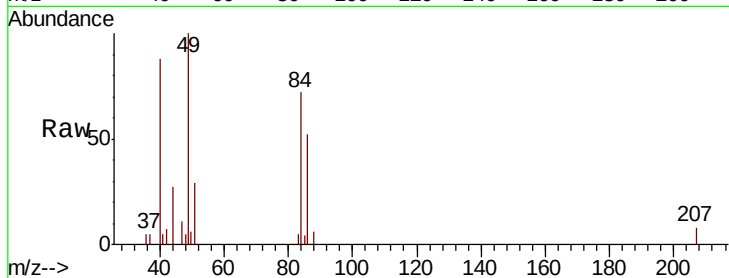




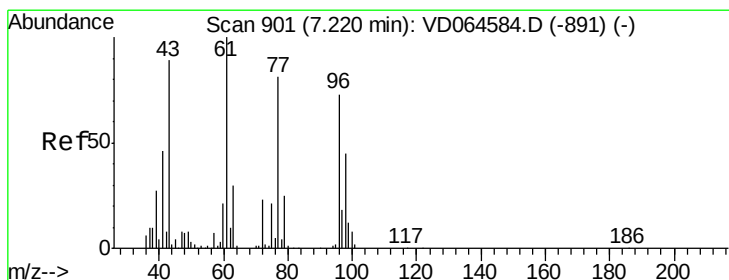
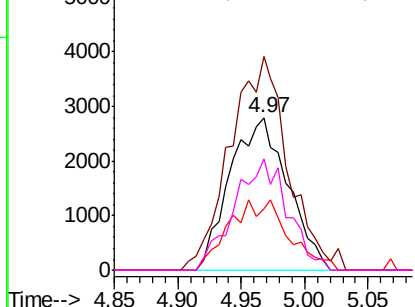
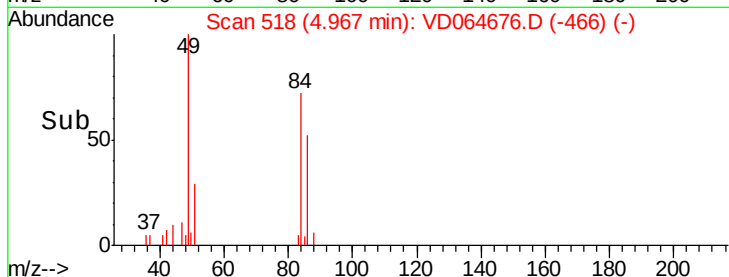
#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 8872
Ion Ratio Lower Upper
84 100
49 133.6 97.2 145.8
51 40.6 31.4 47.0
86 72.8 49.3 73.9

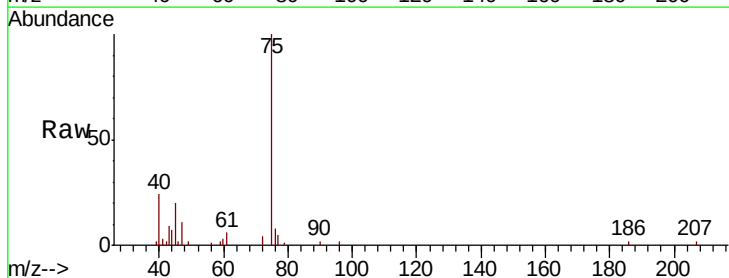


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

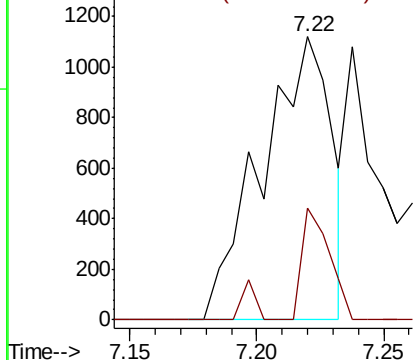
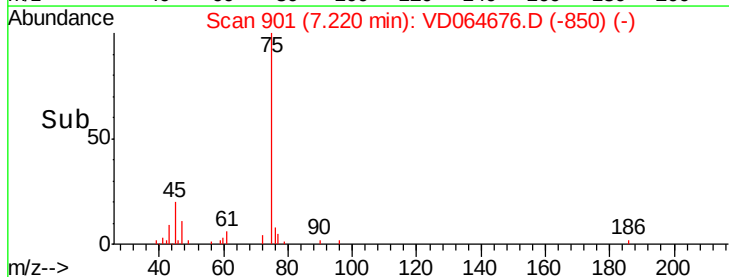


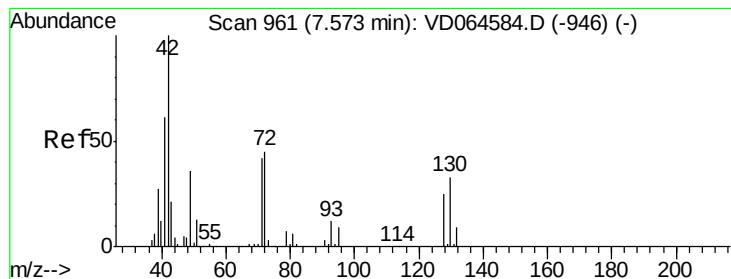
#25
2-Butanone
Concen: 1.941 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

Tgt Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
72 39.3 20.7 31.1#



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





#29

Tetrahydrofuran

Concen: 4.864 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

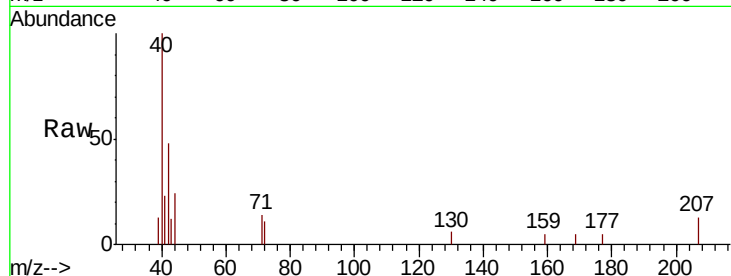
Tot Ion: 42 Resp: 3342

Ion Ratio Lower Upper

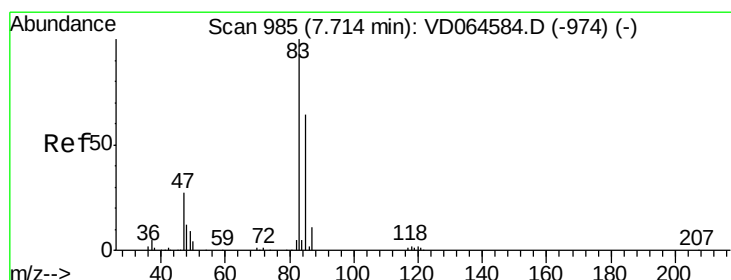
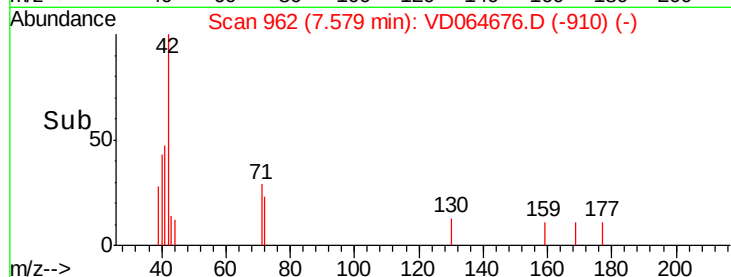
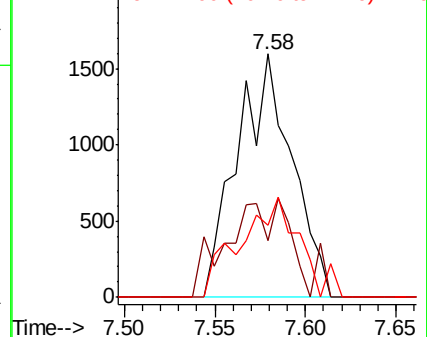
42 100

72 30.6 35.0 52.4#

71 45.1 32.9 49.3



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



#30

Chloroform

Concen: 1.454 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064676.D

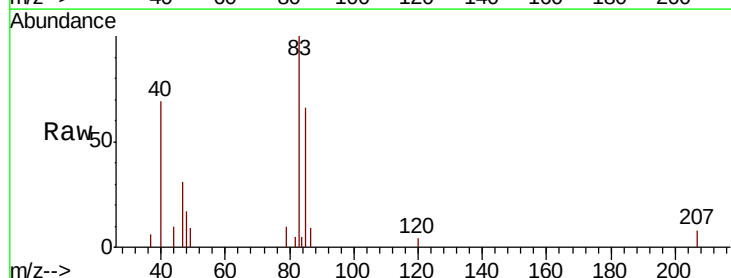
Acq: 30 Dec 2019 14:12

Tgt Ion: 83 Resp: 11423

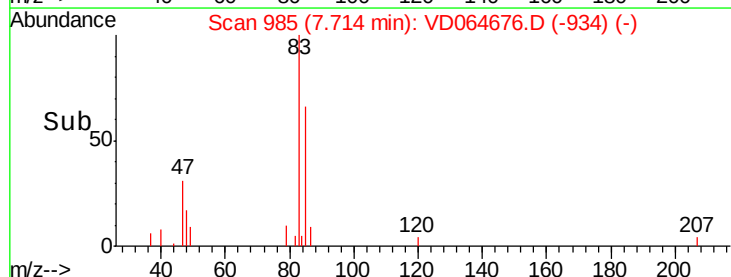
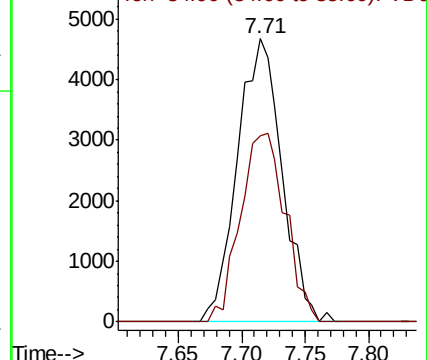
Ion Ratio Lower Upper

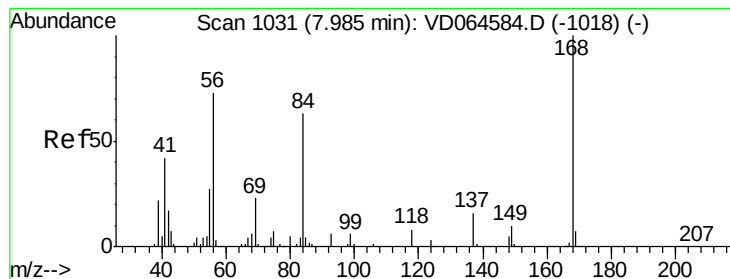
83 100

85 65.9 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC





#31

Cyclohexane

Concen: 1.469 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

Instrument :

MSVOA_D

ClientSampled :

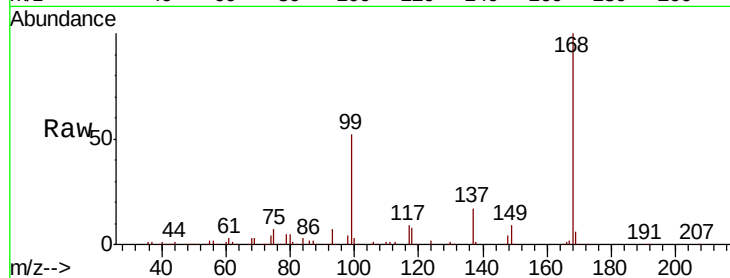
Tot Ion: 56 Resp: 11011

Ion Ratio Lower Upper

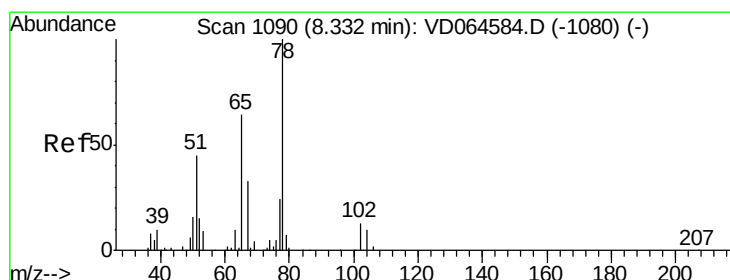
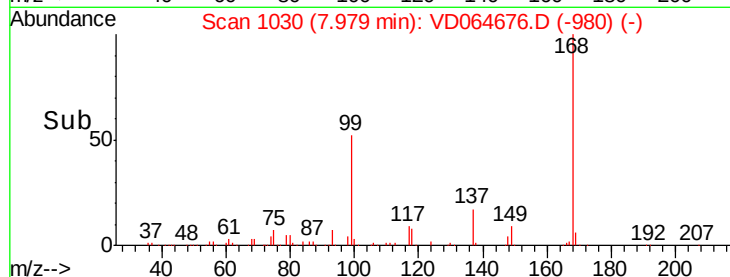
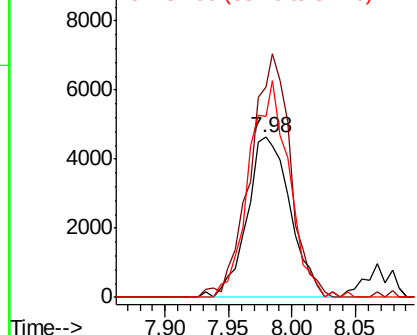
56 100

69 131.2 24.7 37.1#

84 113.5 69.4 104.2#



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: 54.331 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064676.D

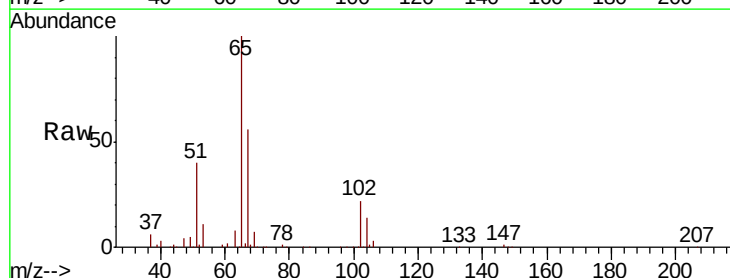
Acq: 30 Dec 2019 14:12

Tgt Ion: 65 Resp: 218380

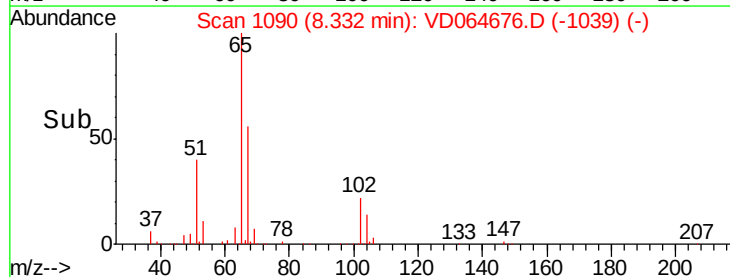
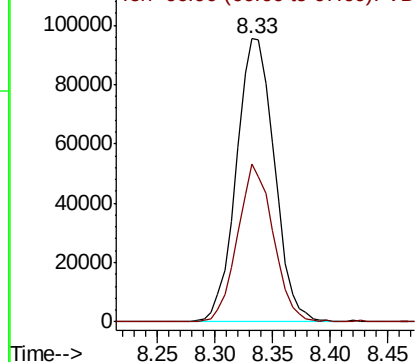
Ion Ratio Lower Upper

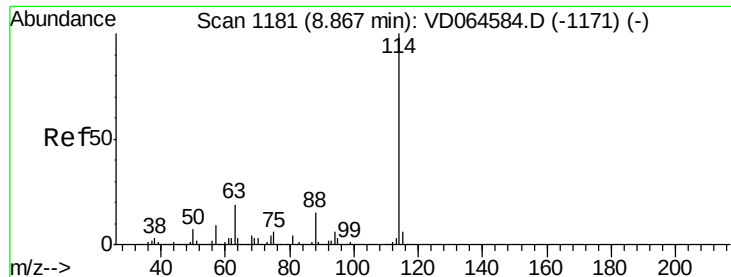
65 100

67 52.5 0.0 106.2



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: VD064676.D

Acq: 30 Dec 2019 14:12

Instrument :

MSVOA_D

ClientSampleId :

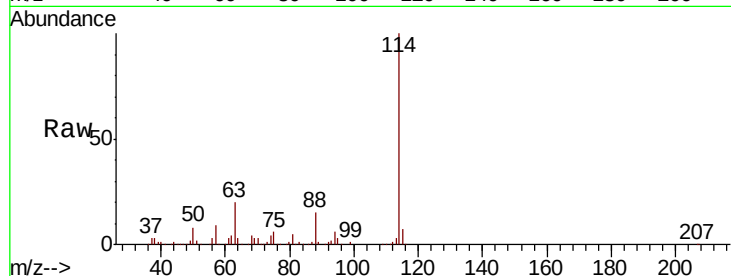
Tot Ion:114 Resp: 687273

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.0

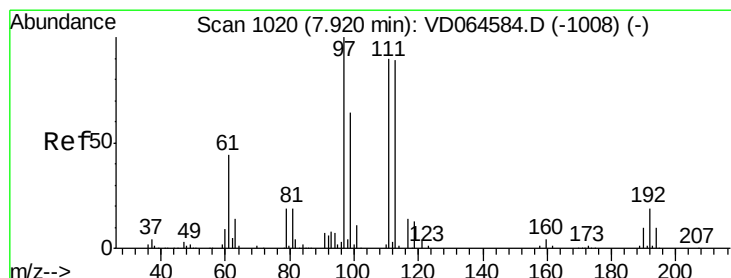
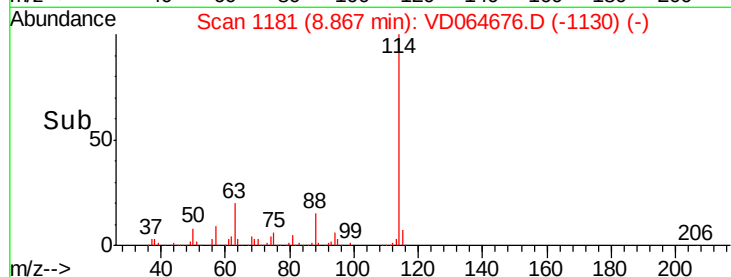
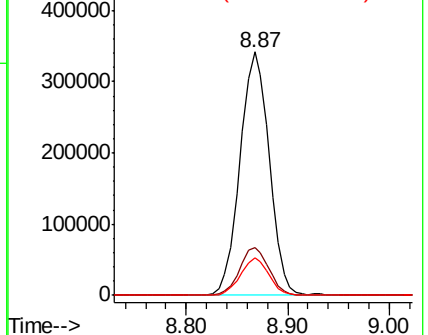
88 15.3 0.0 29.2



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: 51.594 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

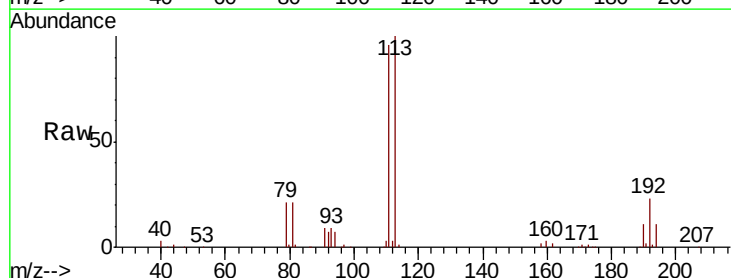
Tgt Ion:113 Resp: 217550

Ion Ratio Lower Upper

113 100

111 101.0 80.6 121.0

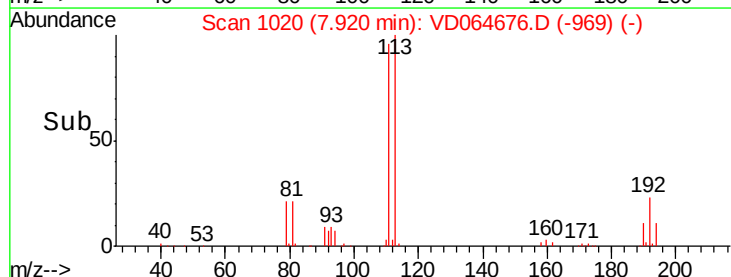
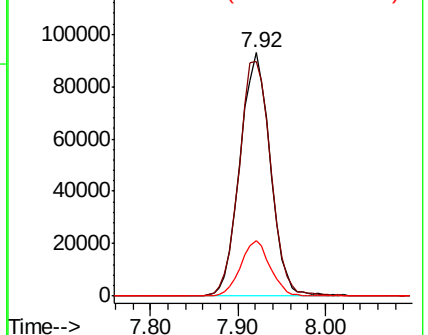
192 22.1 17.9 26.9

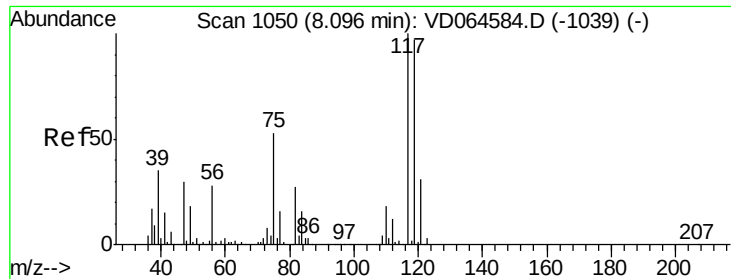


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

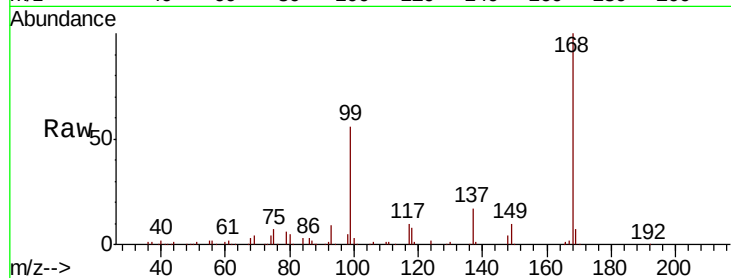




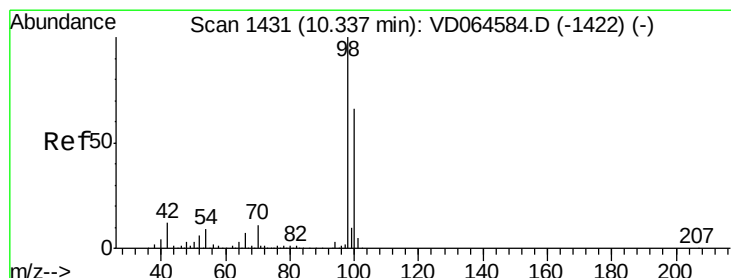
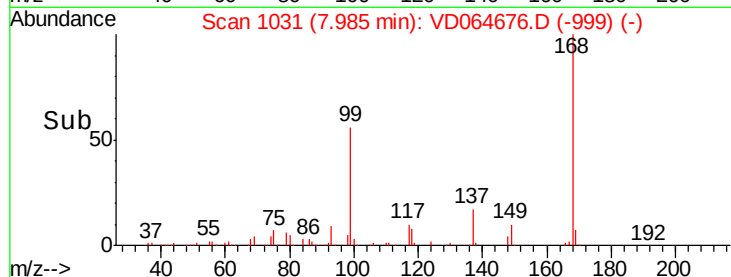
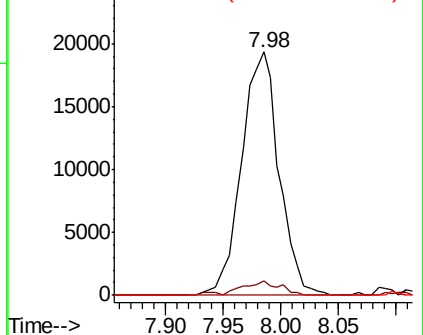
#38
Carbon Tetrachloride
Concen: 6.190 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 43661
Ion Ratio Lower Upper
117 100
119 5.7 77.3 115.9#
121 0.0 25.0 37.6#

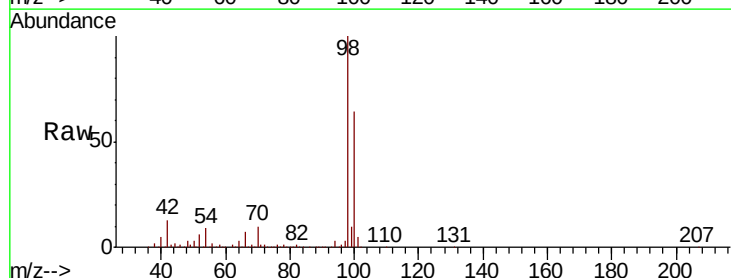


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

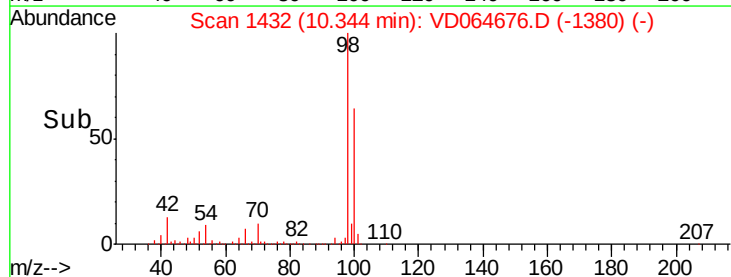
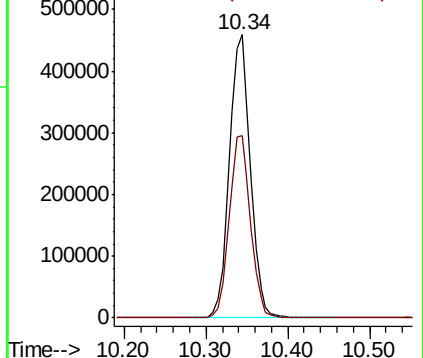


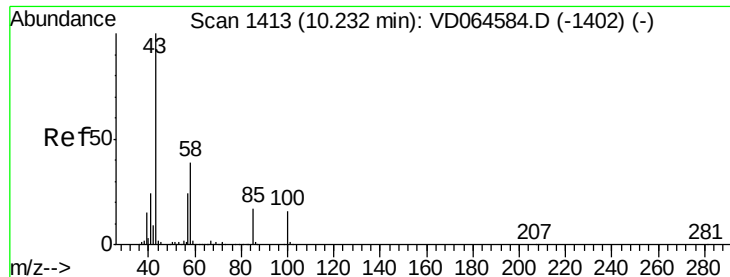
#50
Toluene-d8
Concen: 50.663 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

Tgt Ion: 98 Resp: 818156
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VD





#51

4-Methyl-2-Pentanone

Concen: 1.158 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

Instrument :

MSVOA_D

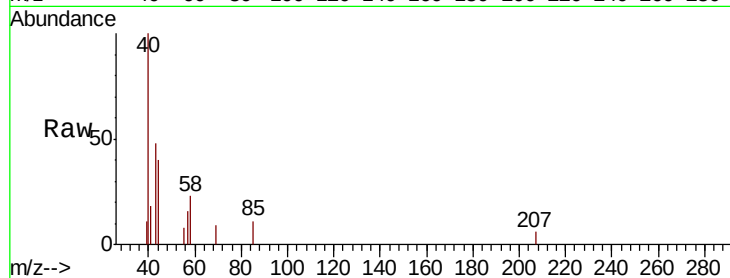
ClientSampleId :

Tot Ion: 43 Resp: 2960

Ion Ratio Lower Upper

43 100

58 31.8 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4000

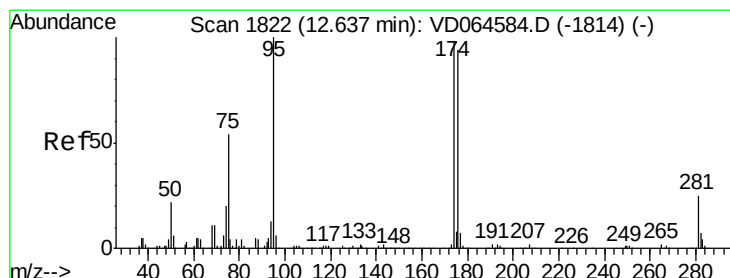
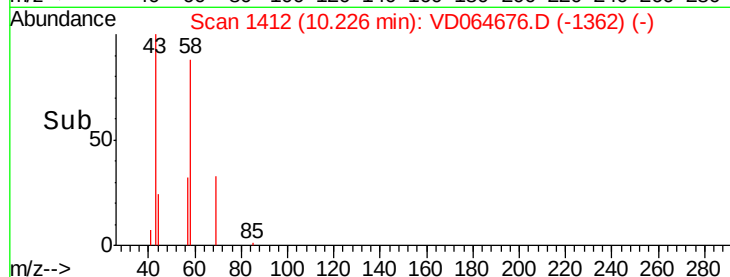
3000

2000

1000

0

Time--> 10.15 10.20 10.25 10.30



#62

4-Bromofluorobenzene

Concen: 48.577 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

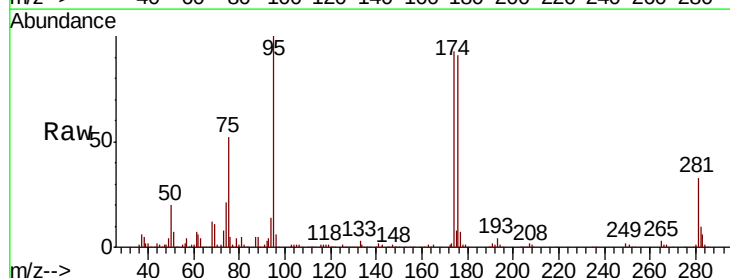
Tgt Ion: 95 Resp: 248055

Ion Ratio Lower Upper

95 100

174 95.7 0.0 193.2

176 93.9 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

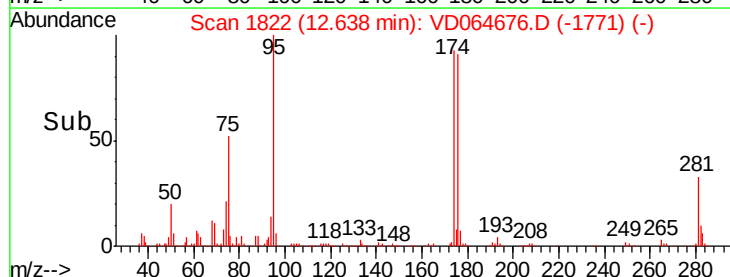
150000

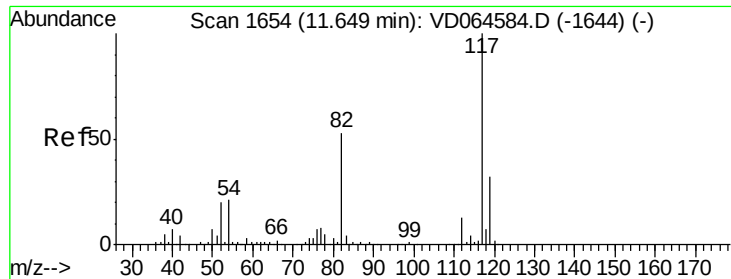
100000

50000

0

Time--> 12.55 12.60 12.65 12.70

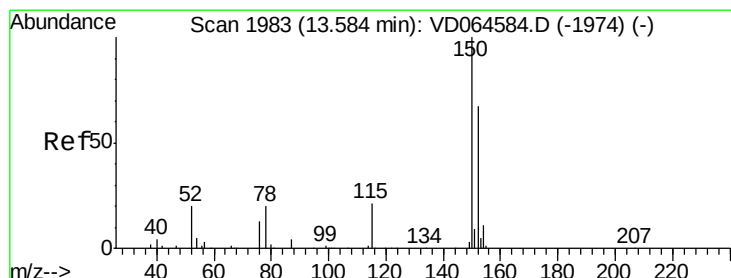
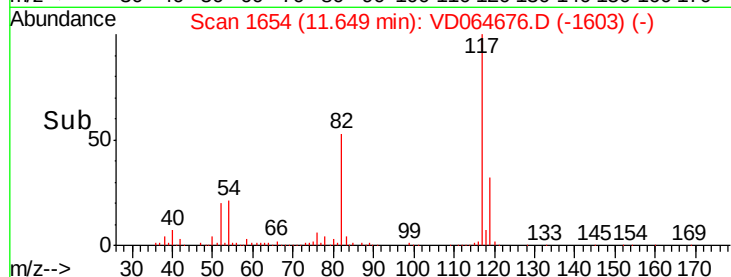
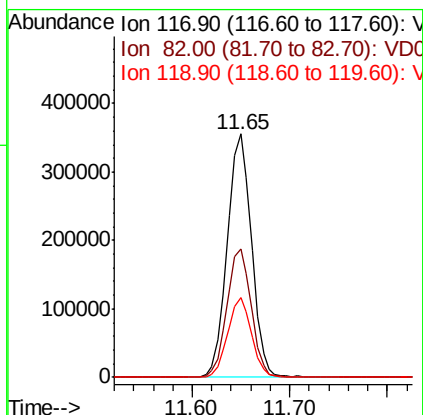
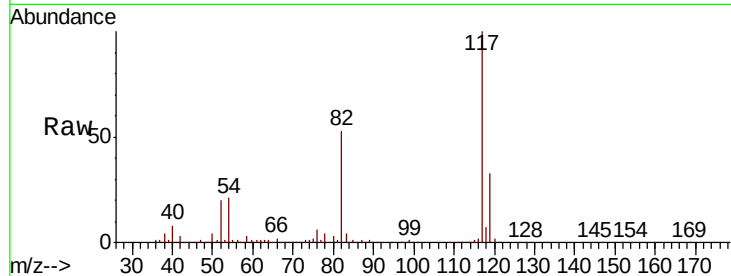




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

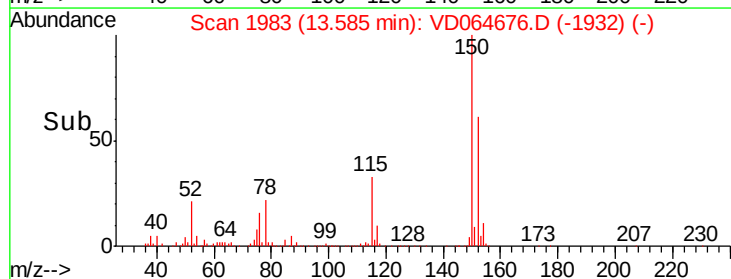
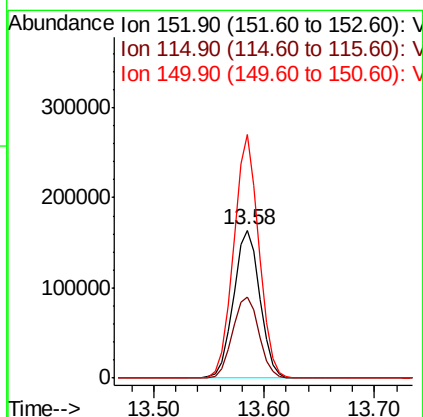
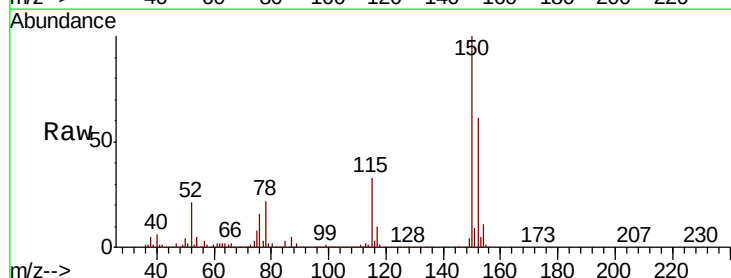
Instrument :
MSVOA_D
ClientSampleId :

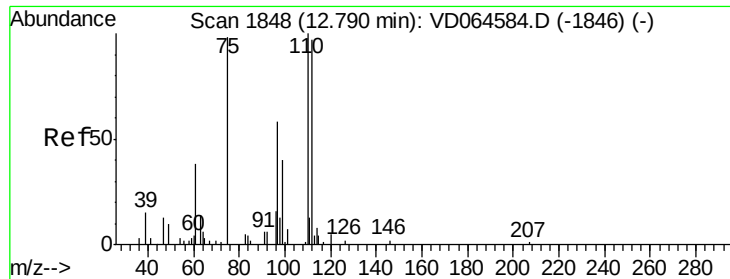
Tot Ion:117 Resp: 614271
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 32.5 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064676.D
Acq: 30 Dec 2019 14:12

Tgt Ion:152 Resp: 274052
Ion Ratio Lower Upper
152 100
115 55.3 27.8 83.4
150 156.8 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 62.339 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

Instrument :

MSVOA_D

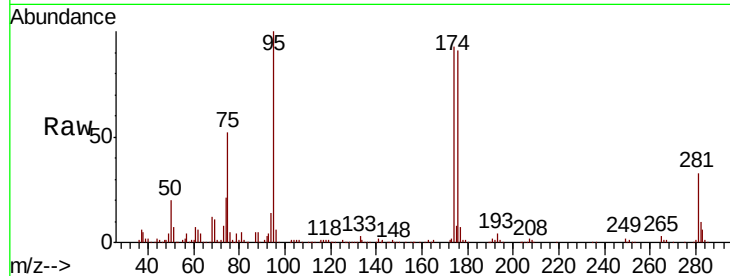
ClientSampleId :

Tot Ion: 75 Resp: 134907

Ion Ratio Lower Upper

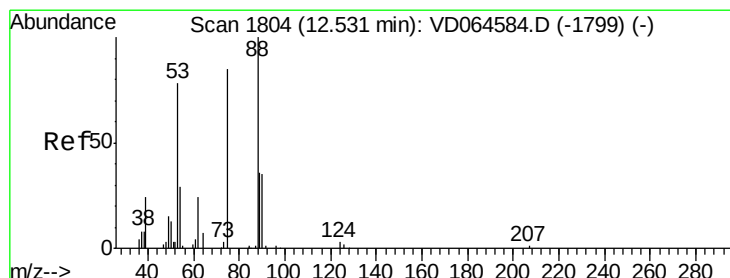
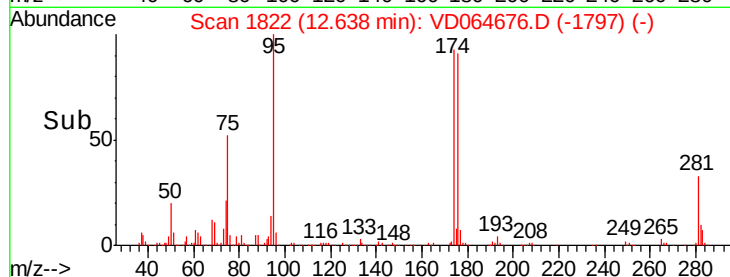
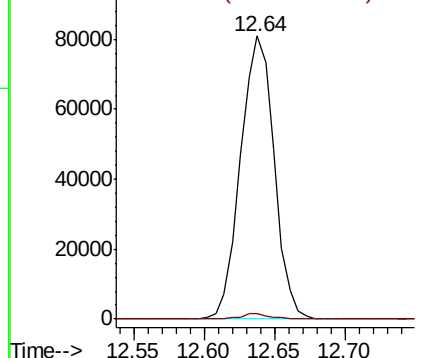
75 100

77 1.9 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: 130.380 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064676.D

Acq: 30 Dec 2019 14:12

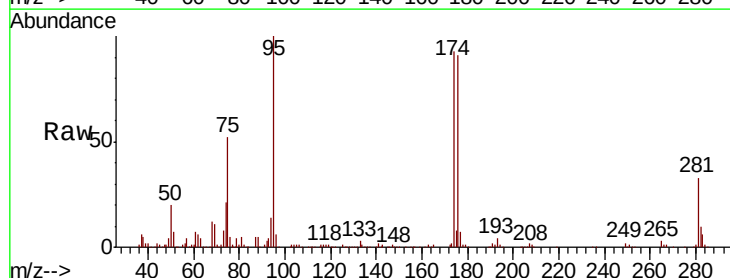
Tgt Ion: 75 Resp: 134907

Ion Ratio Lower Upper

75 100

53 0.2 78.8 118.2#

89 0.4 38.3 57.5#



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

