

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012220\
 Data File : VD064924.D
 Acq On : 22 Jan 2020 18:32
 Operator : VA/SY
 Sample : L1205-14
 Misc : 11.54G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 22 23:18:57 2020
 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	90814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	143925	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	147271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	72990	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	65687	82.03	ug/l	0.00
Spiked Amount			Recovery	=	164.06%	
35) Dibromofluoromethane	7.92	113	52504	59.46	ug/l	0.00
Spiked Amount			Recovery	=	118.92%	
50) Toluene-d8	10.34	98	178811	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
62) 4-Bromofluorobenzene	12.64	95	61327	57.35	ug/l	0.00
Spiked Amount			Recovery	=	114.70%	

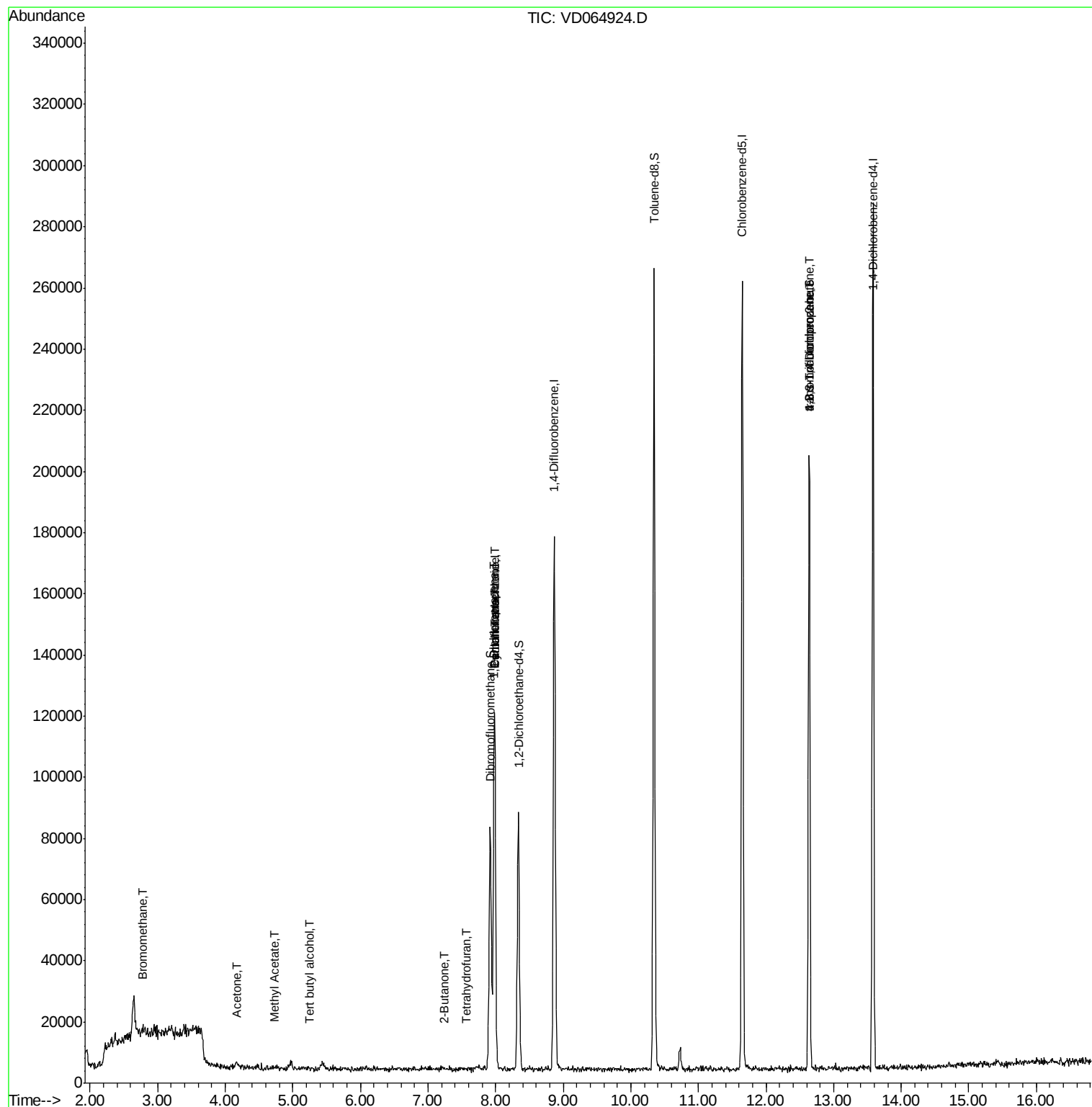
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.79	94	1329	1.519	ug/l	98
11) Tert butyl alcohol	5.24	59	69	1.503	ug/l #	70
16) Acetone	4.16	43	3610	23.135	ug/l #	87
18) Methyl Acetate	4.73	43	1476	3.274	ug/l #	51
20) Methylene Chloride	4.98	84	1755	Below Cal	#	69
25) 2-Butanone	7.24	43	294	1.336	ug/l #	49
29) Tetrahydrofuran	7.57	42	197	1.439	ug/l #	33
31) Cyclohexane	7.99	56	2260	1.514	ug/l #	35
36) 1,1-Dichloropropene	7.97	75	6722	4.852	ug/l #	49
38) Carbon Tetrachloride	7.98	117	8968	6.071	ug/l #	16
76) 1,2,3-Trichloropropane	12.64	75	33004	57.261	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	33004	119.760	ug/l #	10

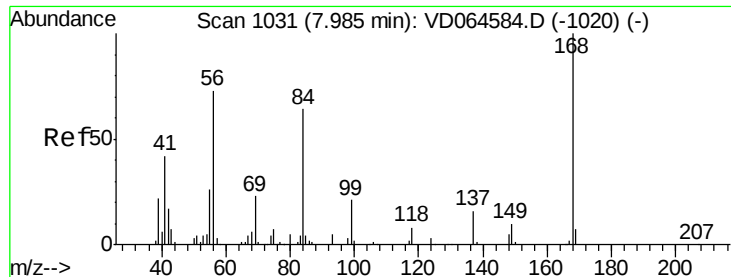
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064924.D

Acq: 22 Jan 2020 18:32

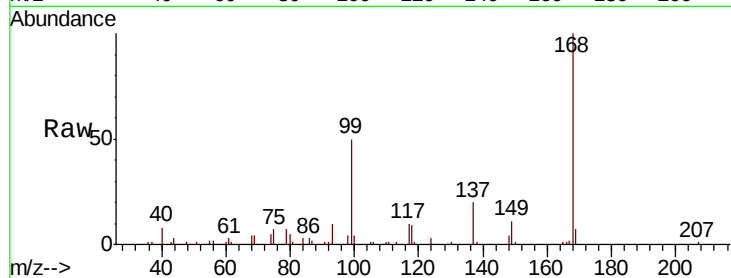
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 90814

Ion Ratio Lower Upper

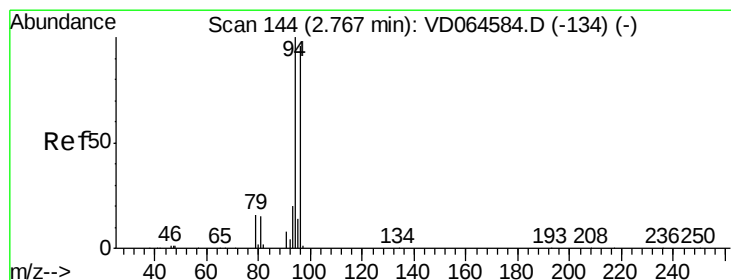
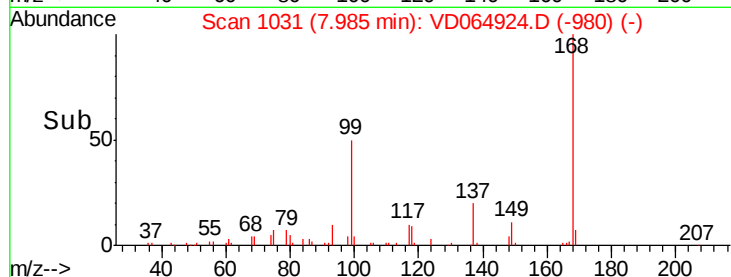
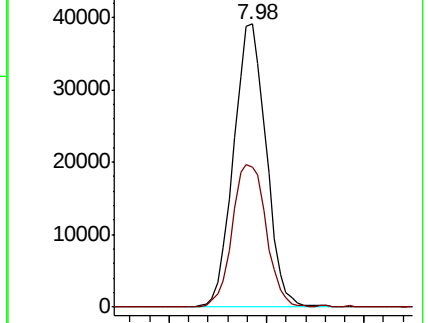
168 100

99 49.7 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: 1.519 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD064924.D

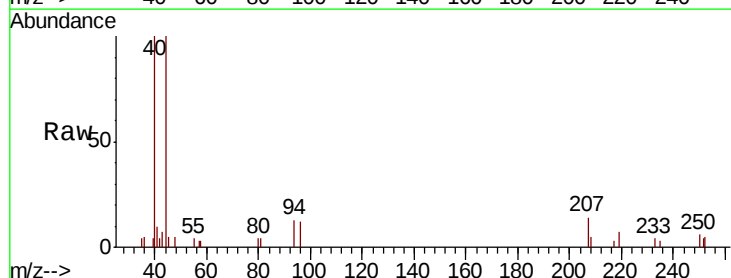
Acq: 22 Jan 2020 18:32

Tgt Ion: 94 Resp: 1329

Ion Ratio Lower Upper

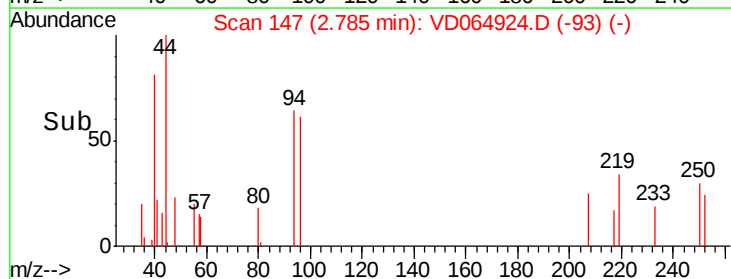
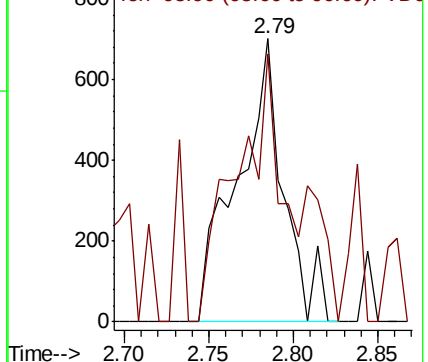
94 100

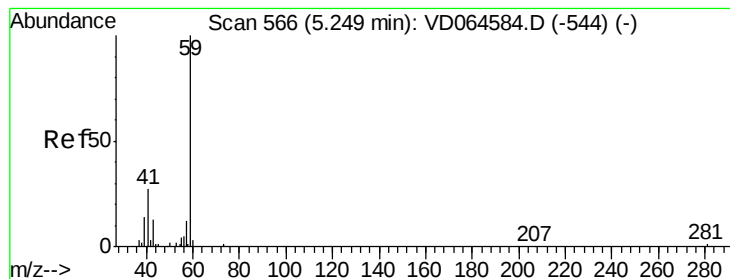
96 94.7 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#11

Tert butyl alcohol

Concen: 1.503 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD064924.D

Acq: 22 Jan 2020 18:32

Instrument :

MSVOA_D

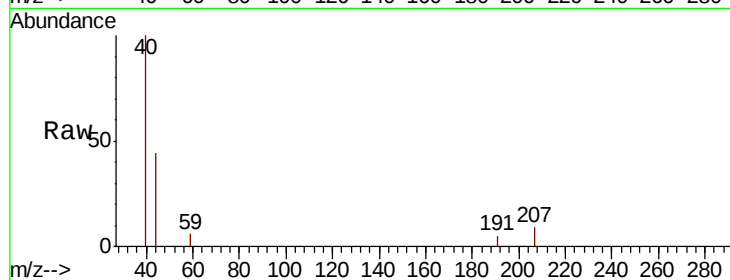
ClientSampled :

Tot Ion: 59 Resp: 69

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

5.24

200

150

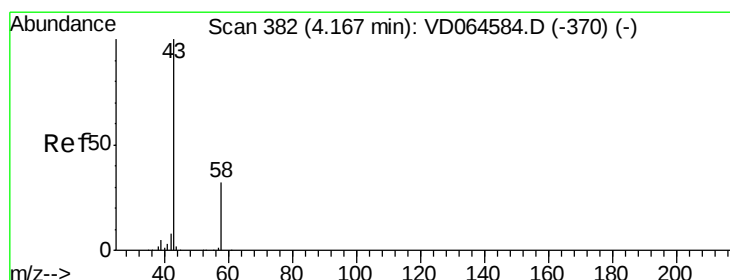
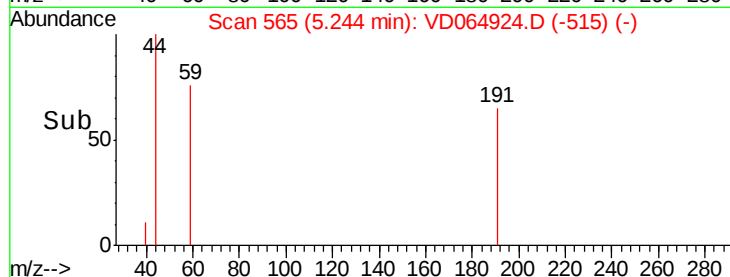
100

50

0

5.23 5.24 5.25 5.26

Time-->



#16

Acetone

Concen: 23.135 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064924.D

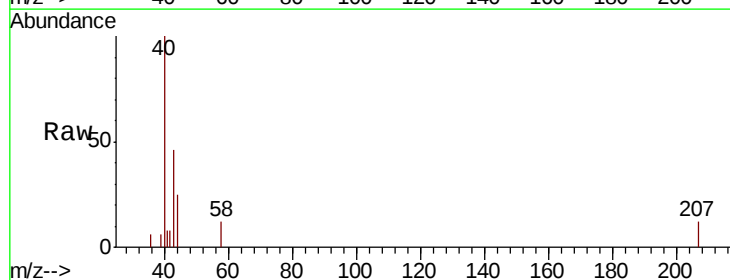
Acq: 22 Jan 2020 18:32

Tgt Ion: 43 Resp: 3610

Ion Ratio Lower Upper

43 100

58 25.2 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

1500

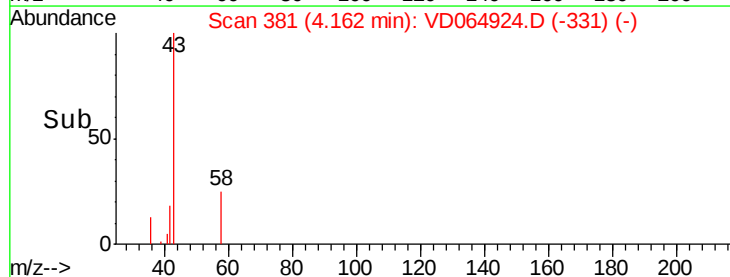
1000

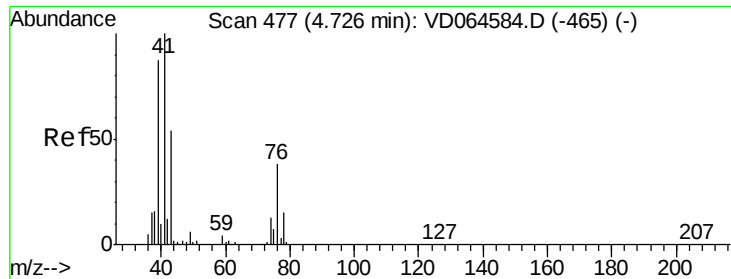
500

0

4.10 4.15 4.20 4.25

Time-->

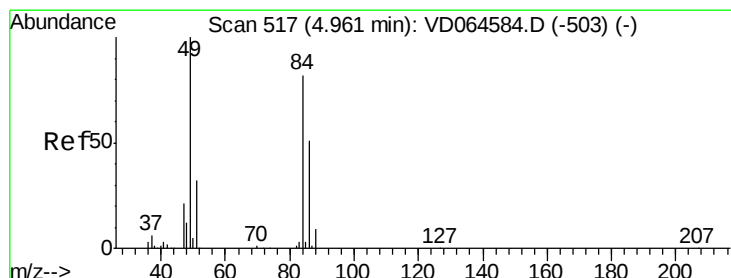
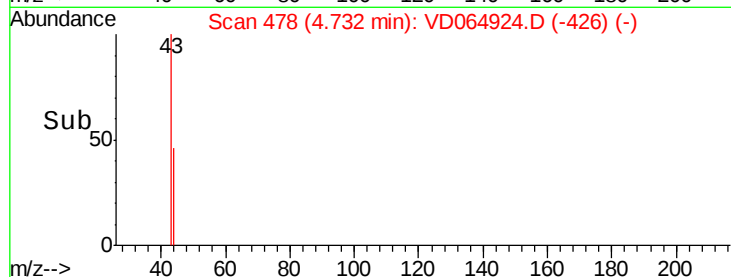
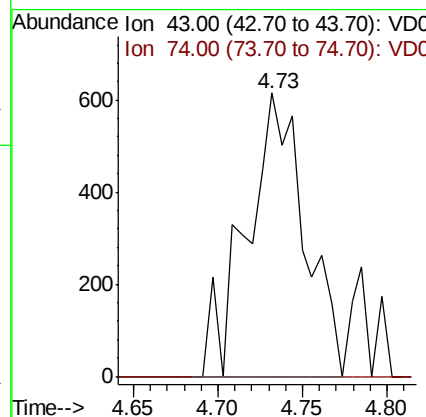
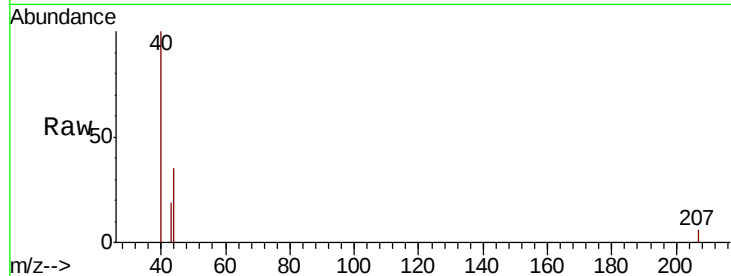




#18
Methyl Acetate
Concen: 3.274 ug/l
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD064924.D
Acq: 22 Jan 2020 18:32

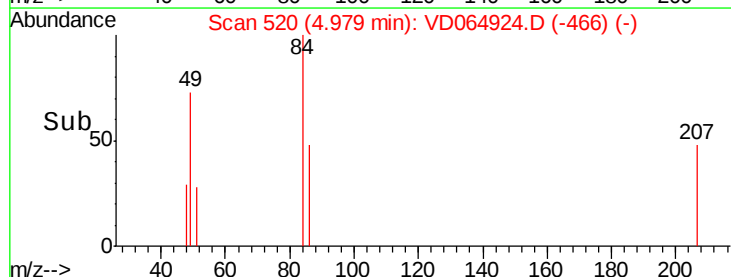
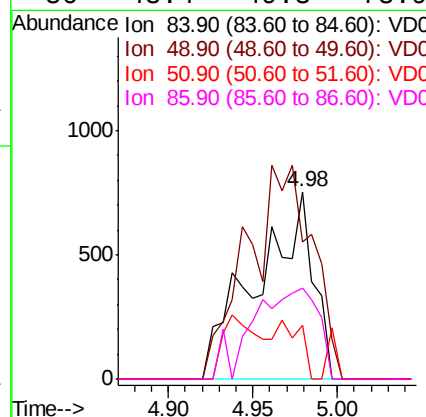
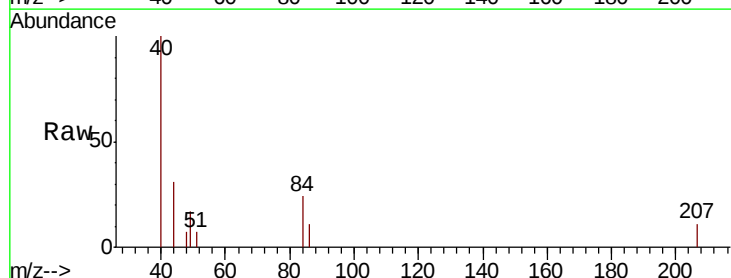
Instrument :
MSVOA_D
ClientSampleId :

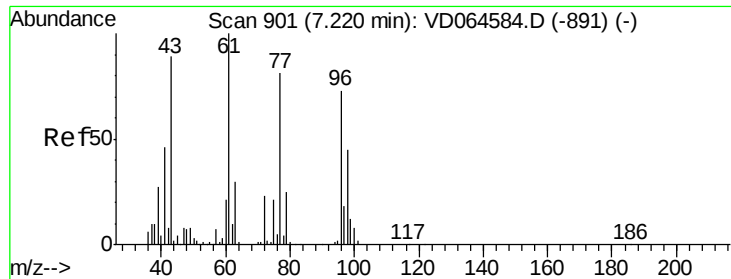
Tot Ion: 43 Resp: 1476
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD064924.D
Acq: 22 Jan 2020 18:32

Tgt Ion: 84 Resp: 1755
Ion Ratio Lower Upper
84 100
49 73.3 97.2 145.8#
51 28.4 31.4 47.0#
86 48.4 49.3 73.9#





#25

2-Butanone

Concen: 1.336 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.02 min

Lab File: VD064924.D

Acq: 22 Jan 2020 18:32

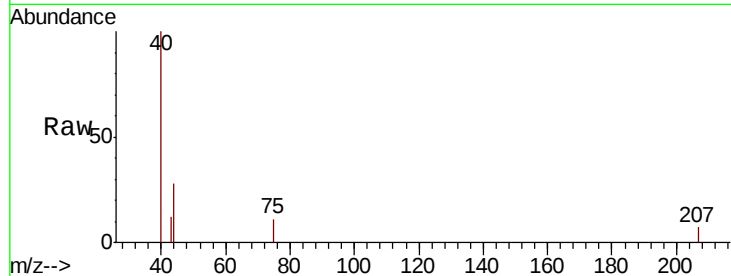
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 294

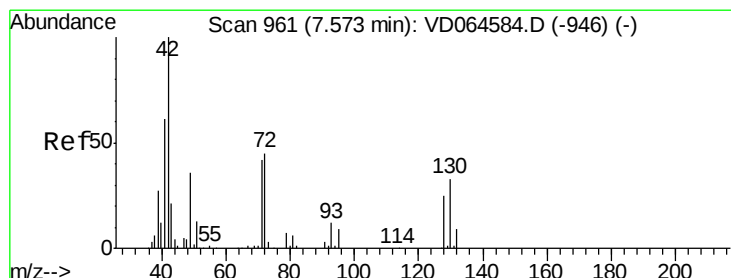
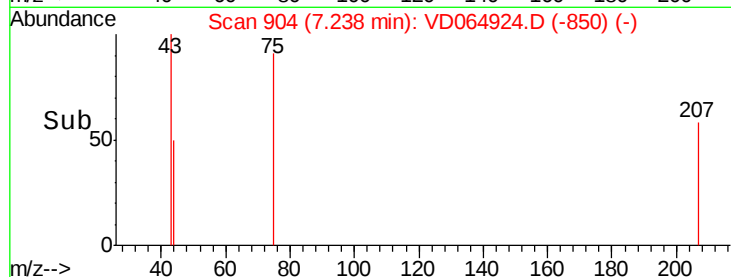
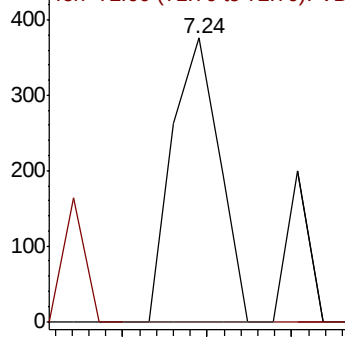
Ion Ratio Lower Upper

43 100

72 0.0 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: 1.439 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD064924.D

Acq: 22 Jan 2020 18:32

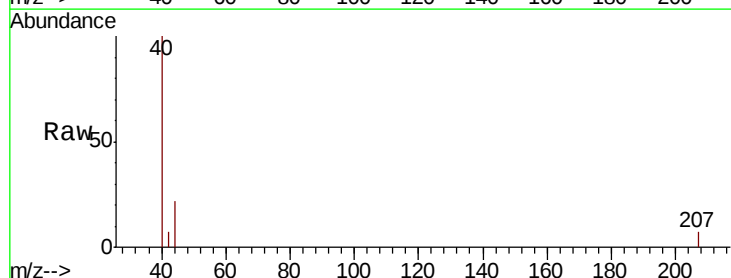
Tgt Ion: 42 Resp: 197

Ion Ratio Lower Upper

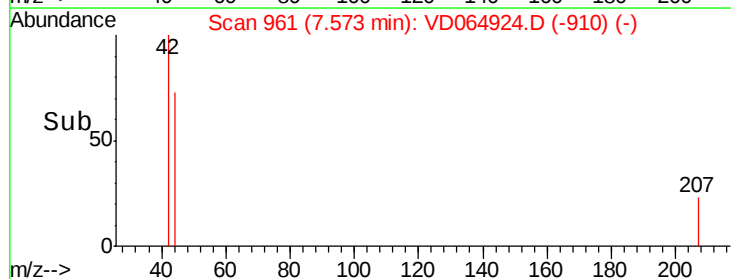
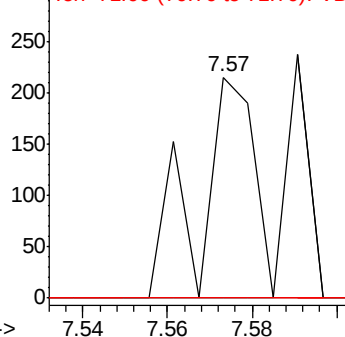
42 100

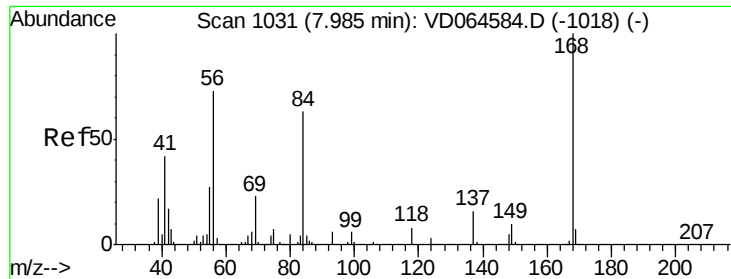
72 0.0 35.0 52.4#

71 0.0 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

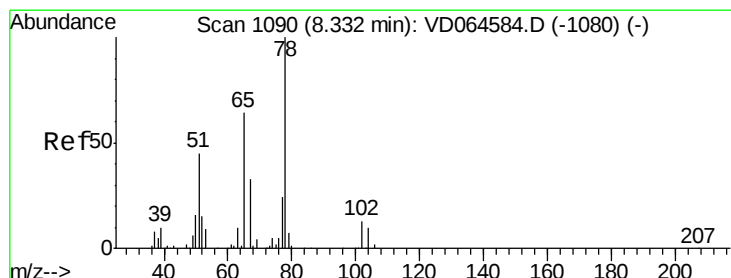
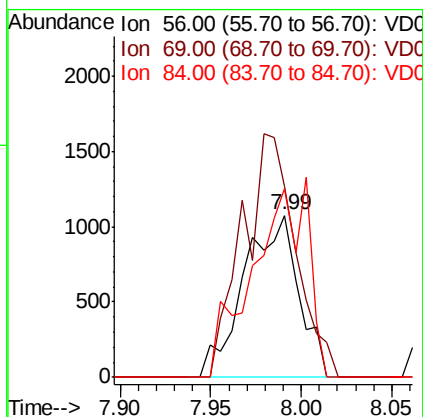
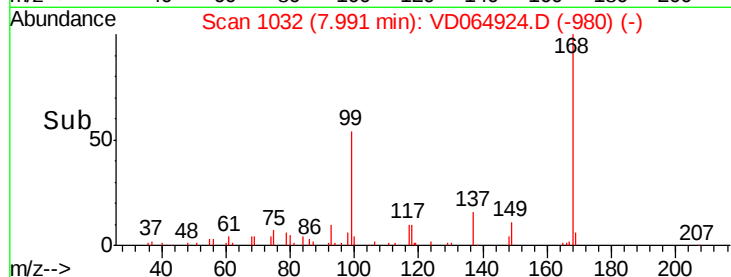
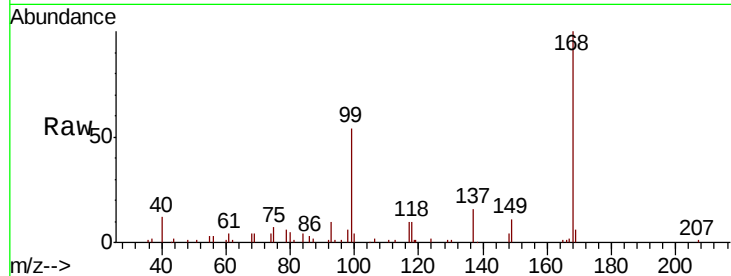




#31
Cyclohexane
Concen: 1.514 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064924.D
Acq: 22 Jan 2020 18:32

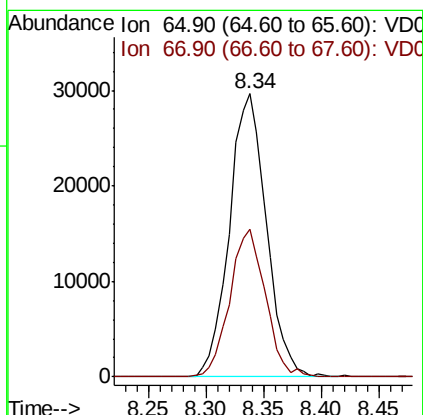
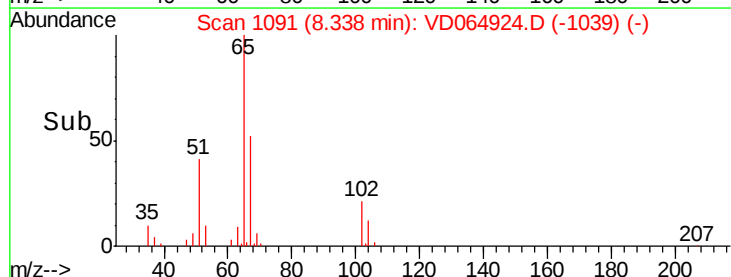
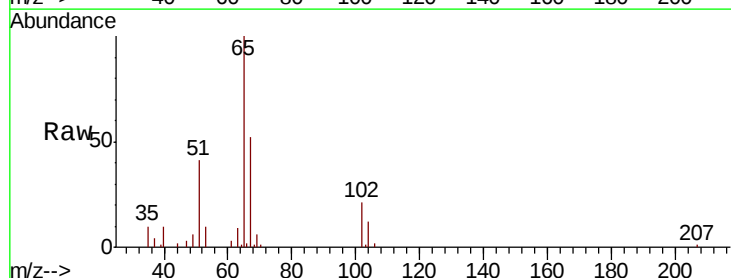
Instrument :
MSVOA_D
ClientSampleId :

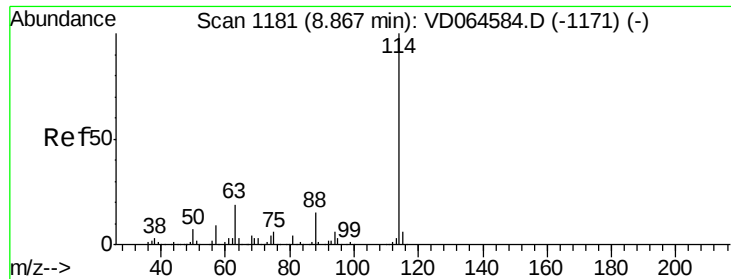
Tot Ion: 56 Resp: 2260
Ion Ratio Lower Upper
56 100
69 117.7 24.7 37.1#
84 116.4 69.4 104.2#



#33
1,2-Dichloroethane-d4
Concen: 82.028 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064924.D
Acq: 22 Jan 2020 18:32

Tgt Ion: 65 Resp: 65687
Ion Ratio Lower Upper
65 100
67 50.4 0.0 106.2

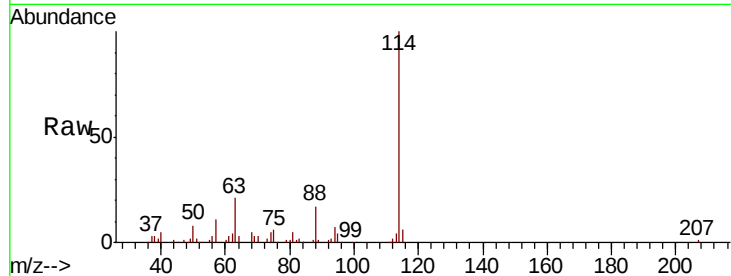




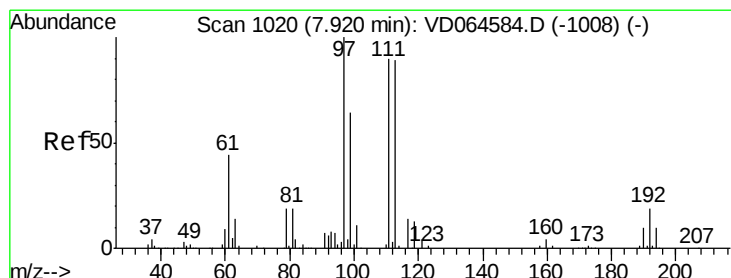
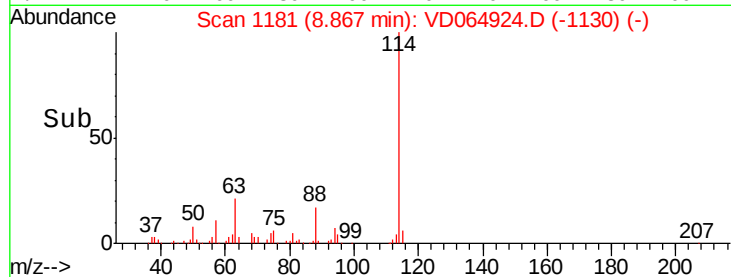
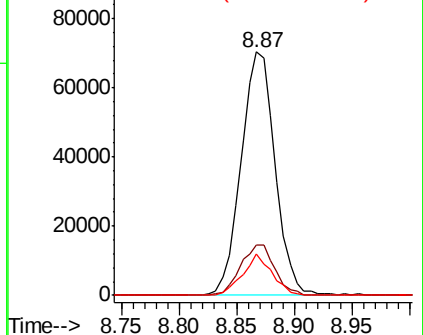
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064924.D
 Acq: 22 Jan 2020 18:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 143925
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 38.0
 88 16.8 0.0 29.2

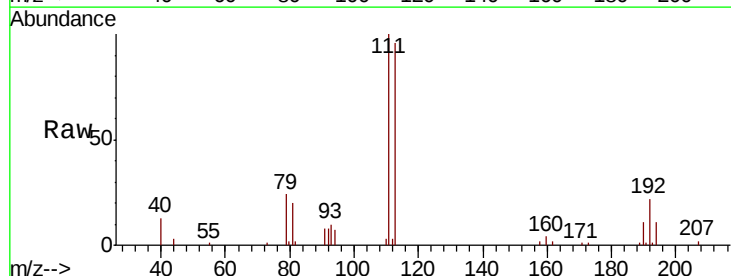


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VDC
 Ion 87.90 (87.60 to 88.60): VDC

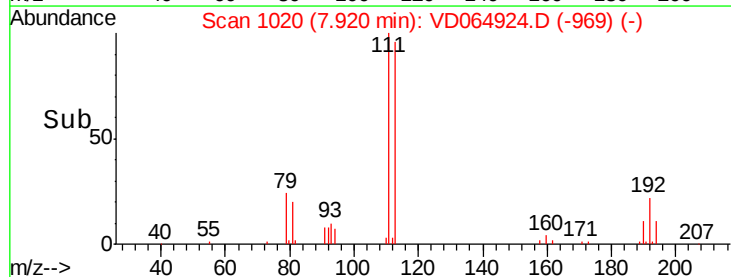
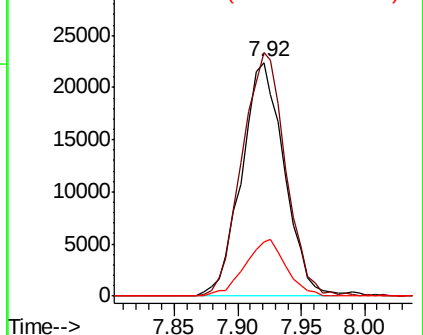


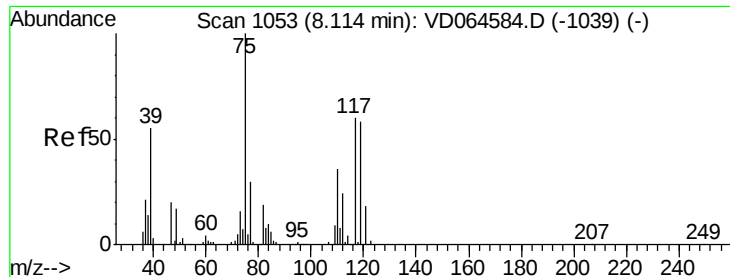
#35
 Dibromofluoromethane
 Concen: 59.461 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064924.D
 Acq: 22 Jan 2020 18:32

Tgt Ion:113 Resp: 52504
 Ion Ratio Lower Upper
 113 100
 111 106.7 80.6 121.0
 192 23.1 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

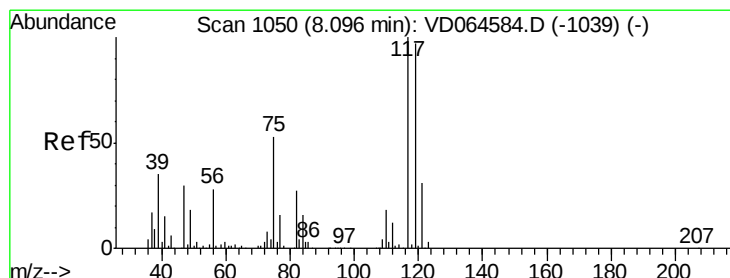
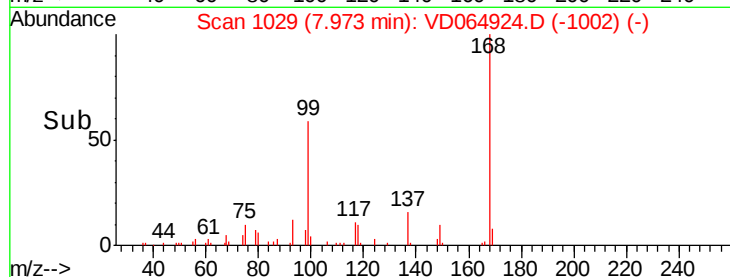
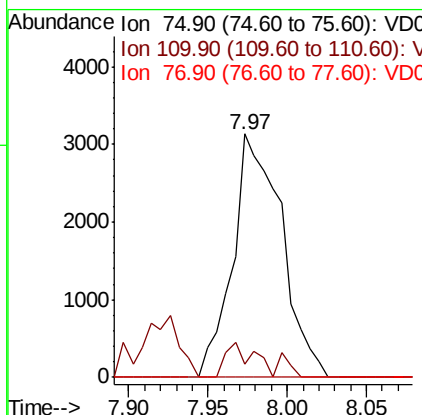
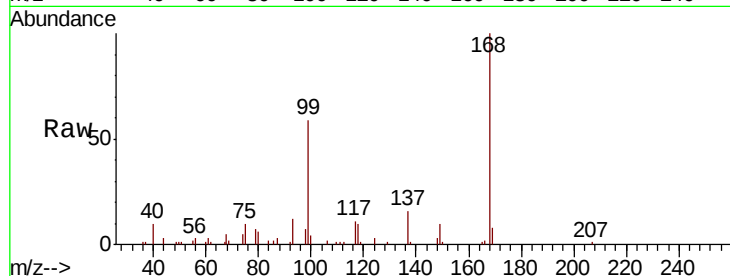




#36
 1,1-Dichloropropene
 Concen: 4.852 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD064924.D
 Acq: 22 Jan 2020 18:32

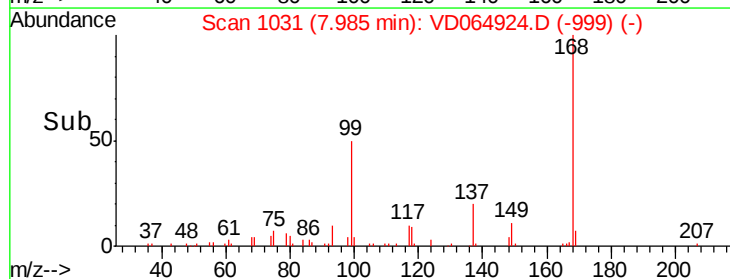
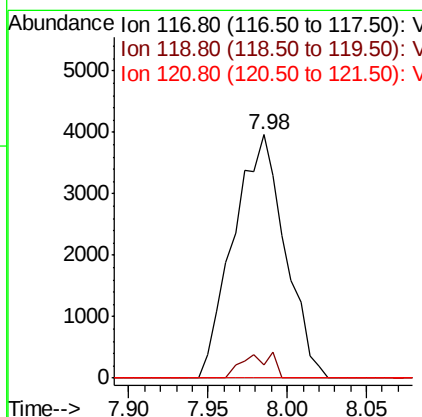
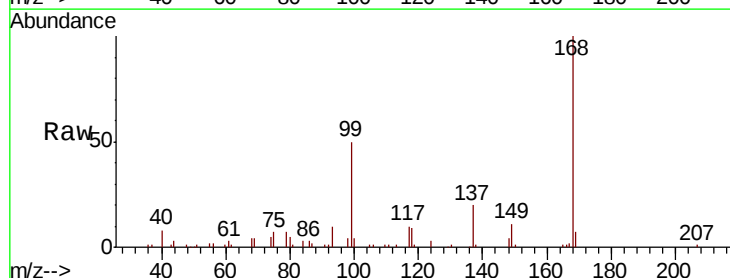
Instrument :
 MSVOA_D
 ClientSampleId :

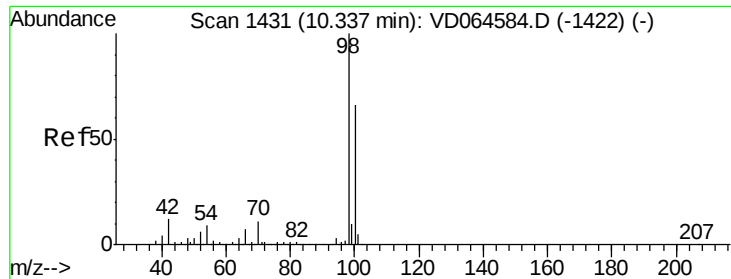
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.1	54.1#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 6.071 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD064924.D
 Acq: 22 Jan 2020 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	77.3	115.9#
121	0.0	25.0	37.6#





#50

Toluene-d8

Concen: 52.874 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064924.D

Acq: 22 Jan 2020 18:32

Instrument :

MSVOA_D

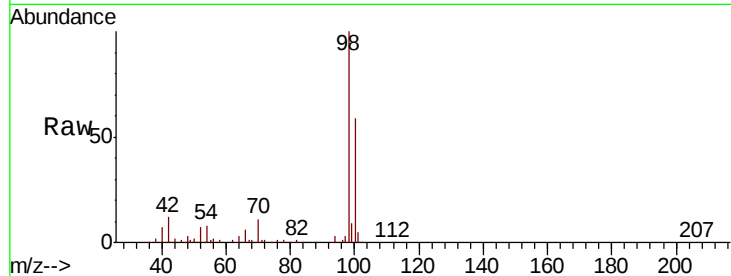
ClientSampleId :

Tot Ion: 98 Resp: 178811

Ion Ratio Lower Upper

98 100

100 62.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VD064584.D (-1422) (-)

Ion 100.00 (99.70 to 100.70): VD064584.D (-1422) (-)

10.34

120000

100000

80000

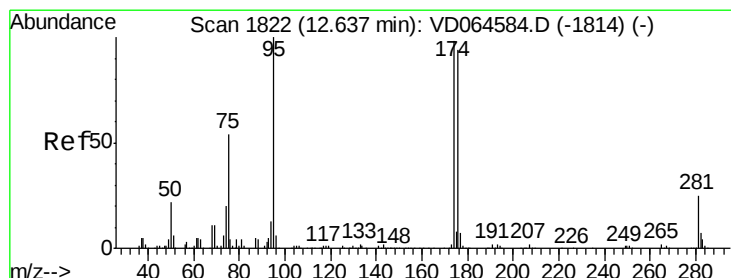
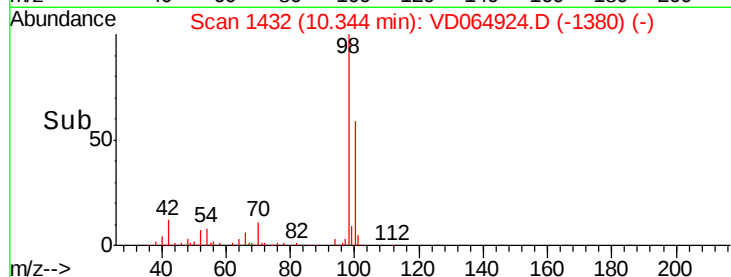
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 57.349 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD064924.D

Acq: 22 Jan 2020 18:32

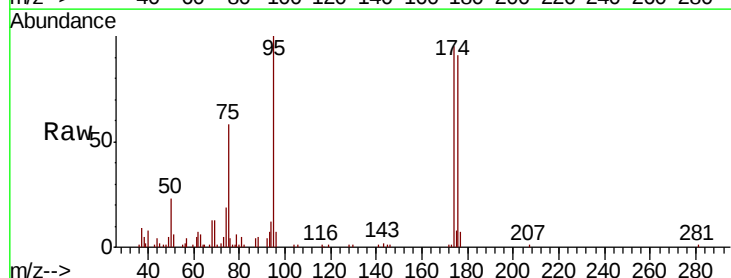
Tgt Ion: 95 Resp: 61327

Ion Ratio Lower Upper

95 100

174 93.7 0.0 193.2

176 89.7 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): VD064584.D (-1814) (-)

Ion 173.80 (173.50 to 174.50): VD064584.D (-1814) (-)

Ion 175.80 (175.50 to 176.50): VD064584.D (-1814) (-)

12.64

40000

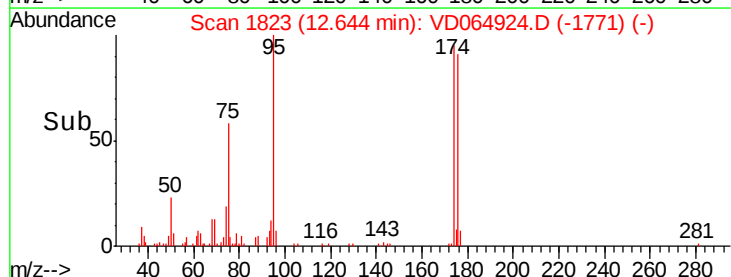
30000

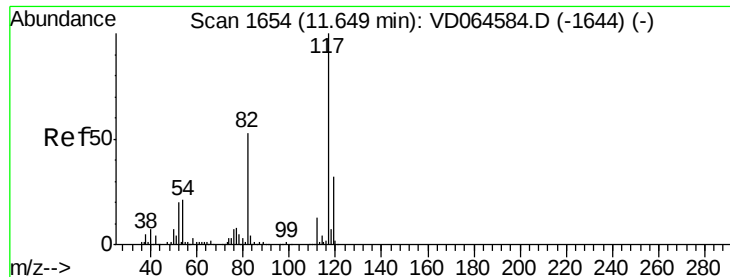
20000

10000

0

Time-->

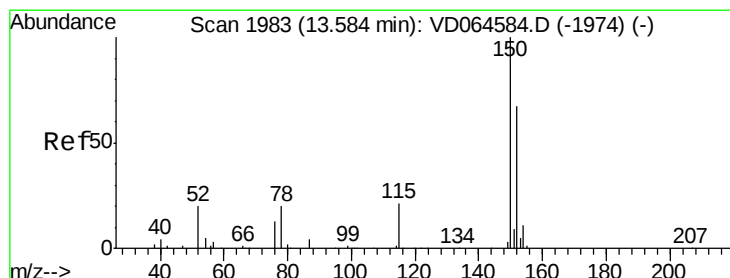
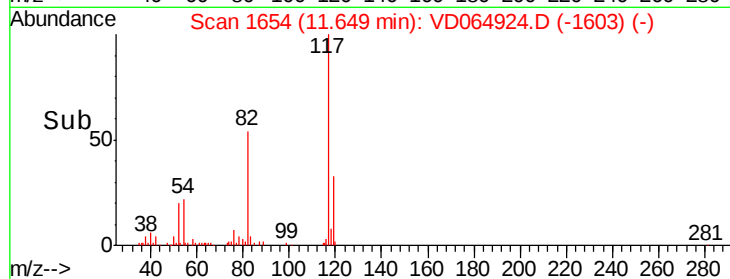
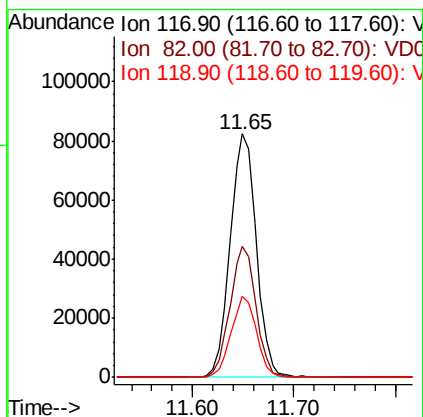
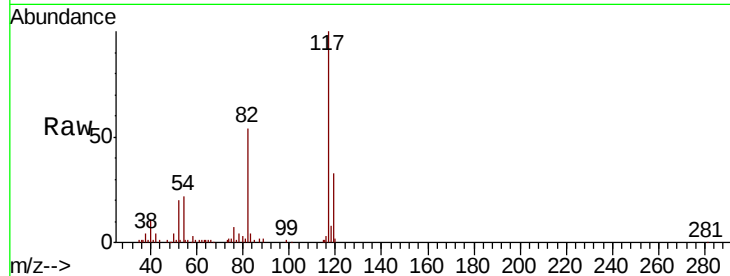




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064924.D
Acq: 22 Jan 2020 18:32

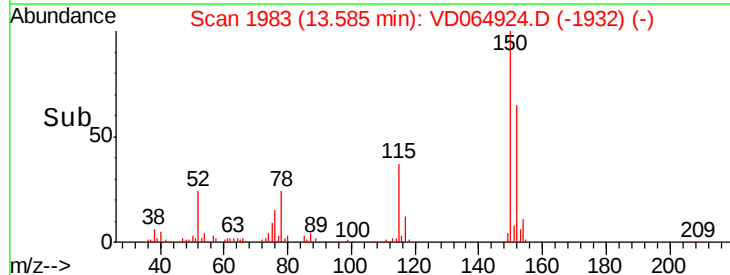
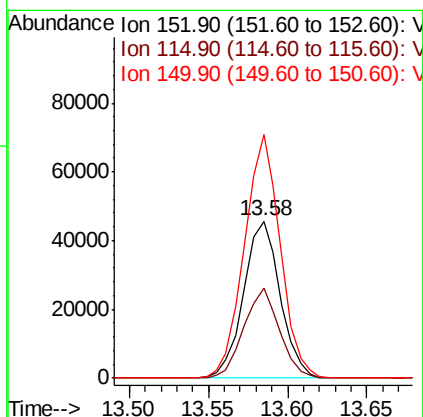
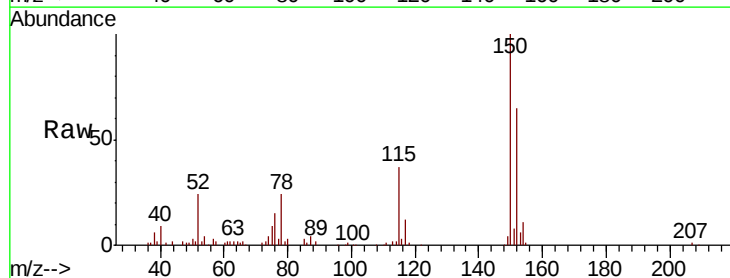
Instrument :
MSVOA_D
ClientSampled :

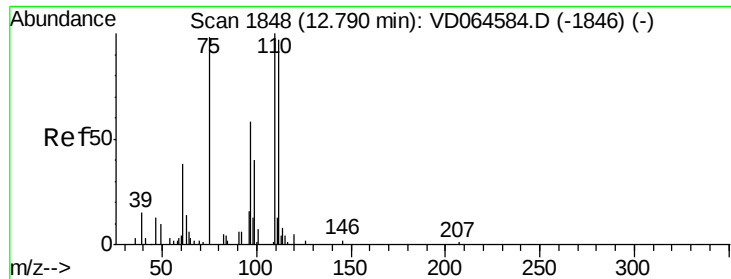
Tot Ion:117 Resp: 147271
Ion Ratio Lower Upper
117 100
82 53.9 42.2 63.4
119 33.1 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064924.D
Acq: 22 Jan 2020 18:32

Tgt Ion:152 Resp: 72990
Ion Ratio Lower Upper
152 100
115 55.8 27.8 83.4
150 152.4 0.0 351.4

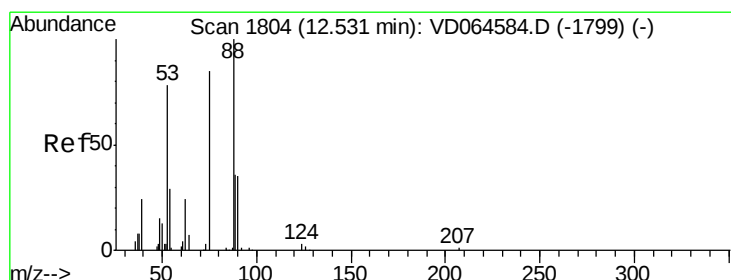
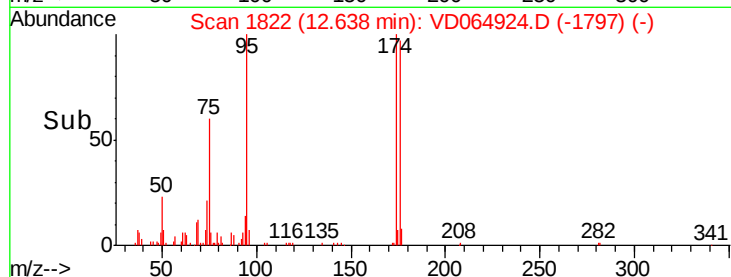
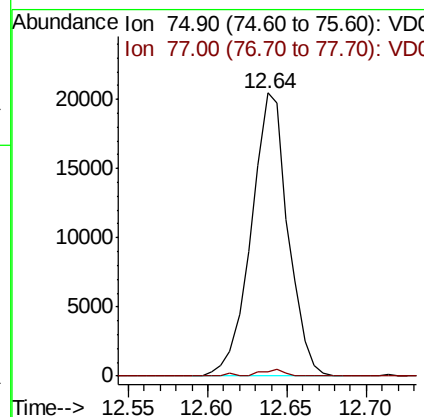
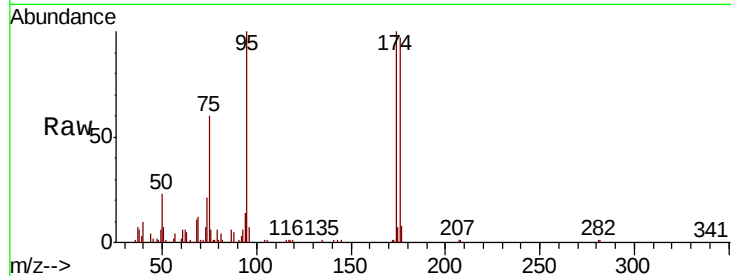




#76
 1,2,3-Trichloropropane
 Concen: 57.261 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064924.D
 Acq: 22 Jan 2020 18:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 33004
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.760 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD064924.D
 Acq: 22 Jan 2020 18:32

Tgt Ion: 75 Resp: 33004
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.8 118.2#
 89 0.0 38.3 57.5#

