

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020720\
 Data File : VD065108.D
 Acq On : 07 Feb 2020 14:24
 Operator : VA/SY
 Sample : L1432-06
 Misc : 1.18G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 08 00:07:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	470622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	748402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	713677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	321819	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	210362	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
35) Dibromofluoromethane	7.92	113	227576	54.50	ug/l	0.00
Spiked Amount			Recovery	=	109.00%	
50) Toluene-d8	10.34	98	878734	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
62) 4-Bromofluorobenzene	12.64	95	311855	59.22	ug/l	0.00
Spiked Amount			Recovery	=	118.44%	

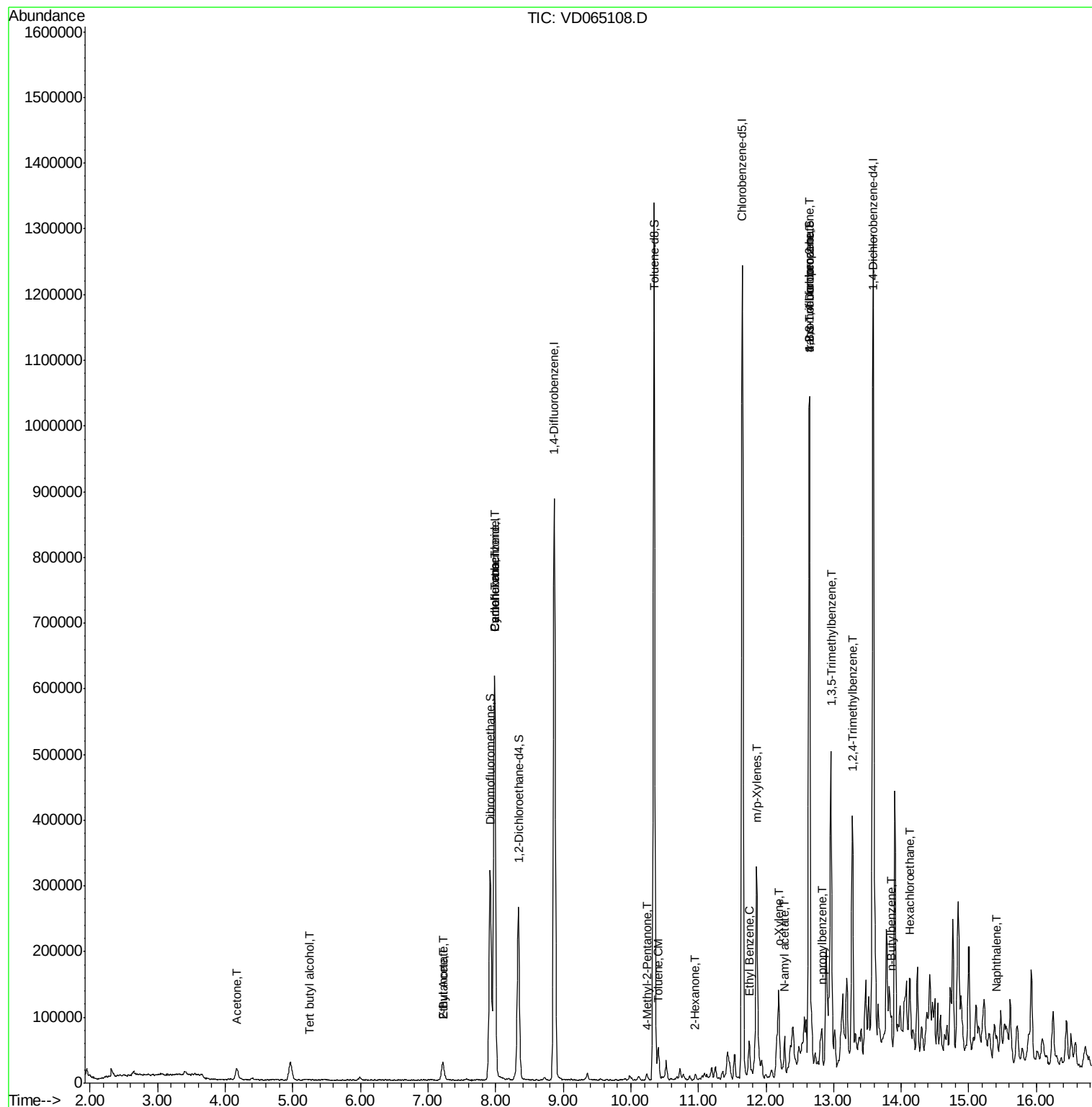
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	1221	4.996	ug/l #	84
16) Acetone	4.16	43	33187	33.186	ug/l #	85
25) 2-Butanone	7.23	43	13975	11.715	ug/l	91
31) Cyclohexane	7.98	56	11444	1.438	ug/l #	10
37) Ethyl Acetate	7.23	43	13975	4.916	ug/l #	84
38) Carbon Tetrachloride	7.98	117	45821	6.447	ug/l #	16
51) 4-Methyl-2-Pentanone	10.24	43	6317	2.360	ug/l	99
52) Toluene	10.41	92	18037	1.471	ug/l	100
59) 2-Hexanone	10.96	43	4316	2.276	ug/l #	28
67) Ethyl Benzene	11.75	91	35636	1.421	ug/l	100
68) m/p-Xylenes	11.86	106	51112	5.340	ug/l	98
69) o-Xylene	12.18	106	31555	3.661	ug/l	96
74) N-amyl acetate	12.28	43	12067	2.513	ug/l #	71
76) 1,2,3-Trichloropropane	12.64	75	162523	66.703	ug/l #	100
78) n-propylbenzene	12.83	91	44067	1.704	ug/l	98
80) 1,3,5-Trimethylbenzene	12.97	105	56971	3.153	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.64	75	162523	133.401	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.28	105	200979	11.203	ug/l	99
89) n-Butylbenzene	13.86	91	32959	1.805	ug/l #	77
90) Hexachloroethane	14.14	117	5110	1.364	ug/l #	8
95) Naphthalene	15.42	128	21394	2.110	ug/l #	88

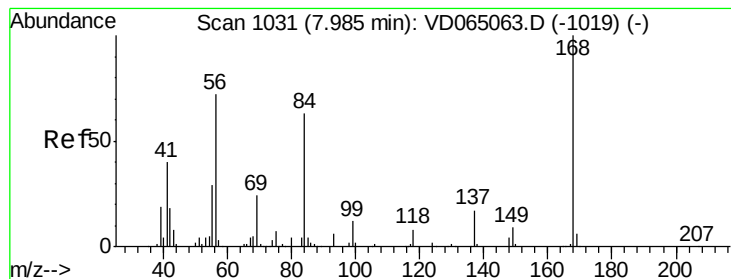
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD020720\
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Misc : 1.18G/5.00ml/MSVOA D/SOIL
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Quant Time: Feb 08 00:07:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 05 15:53:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

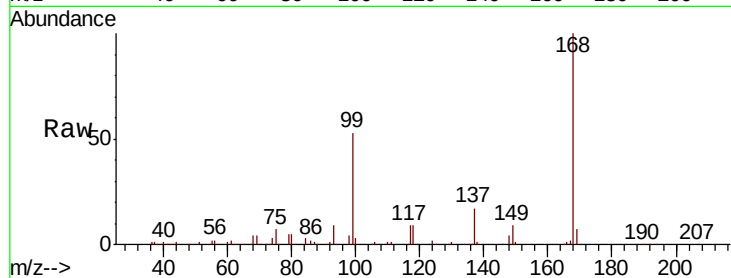
ClientSampleId :

Tot Ion:168 Resp: 470622

Ion Ratio Lower Upper

168 100

99 52.5 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

250000

200000

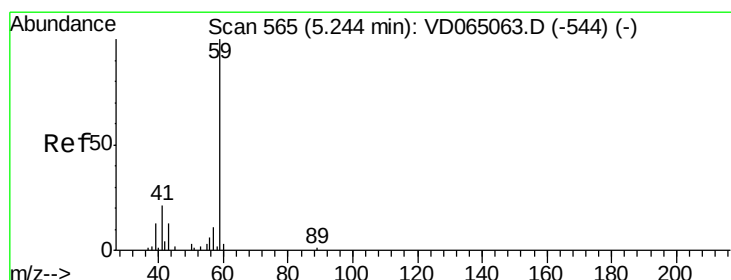
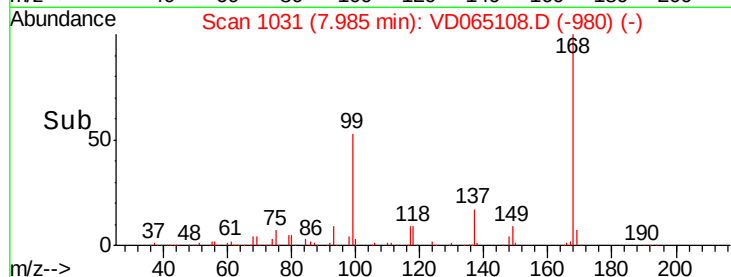
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.996 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.01 min

Lab File: VD065108.D

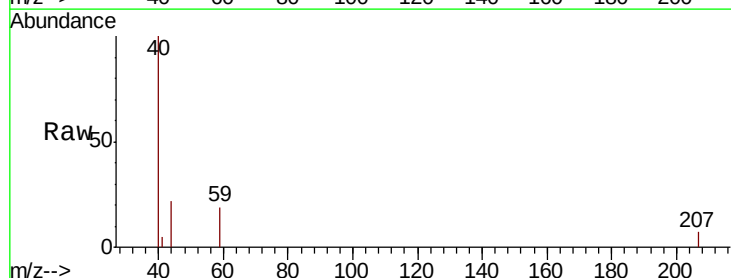
Acq: 07 Feb 2020 14:24

Tgt Ion: 59 Resp: 1221

Ion Ratio Lower Upper

59 100

57 5.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

800

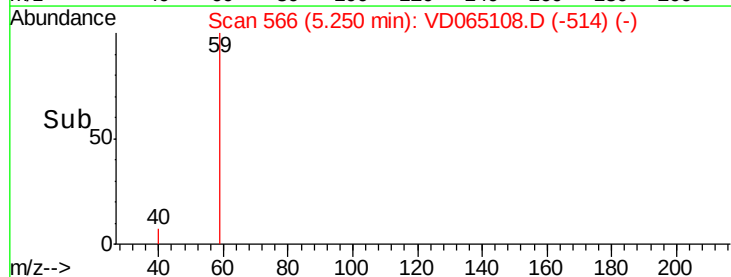
600

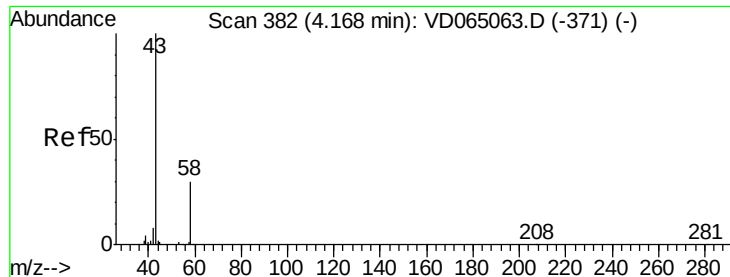
400

200

0

Time-->





#16

Acetone

Concen: 33.186 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

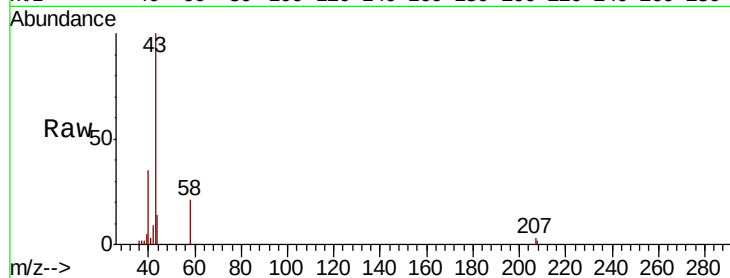
ClientSampleId :

Tot Ion: 43 Resp: 33187

Ion Ratio Lower Upper

43 100

58 21.1 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

12000

10000

8000

6000

4000

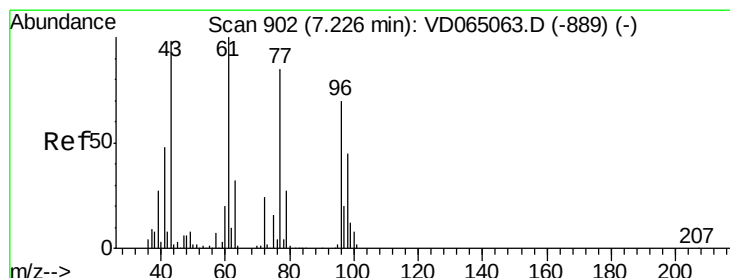
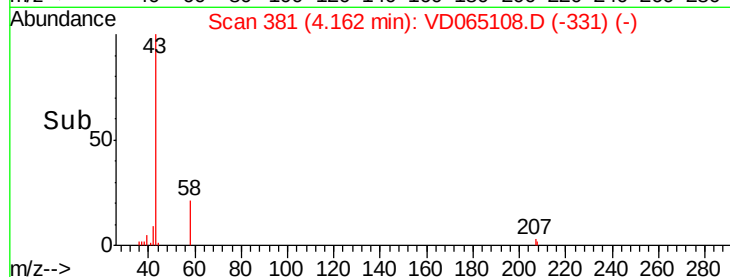
2000

0

4.16

4.10 4.20 4.30

Time-->



#25

2-Butanone

Concen: 11.715 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD065108.D

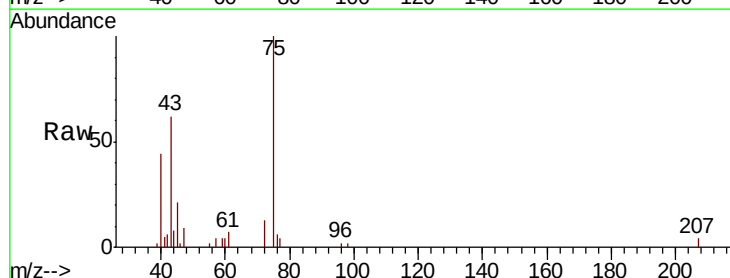
Acq: 07 Feb 2020 14:24

Tgt Ion: 43 Resp: 13975

Ion Ratio Lower Upper

43 100

72 20.6 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

6000

5000

4000

3000

2000

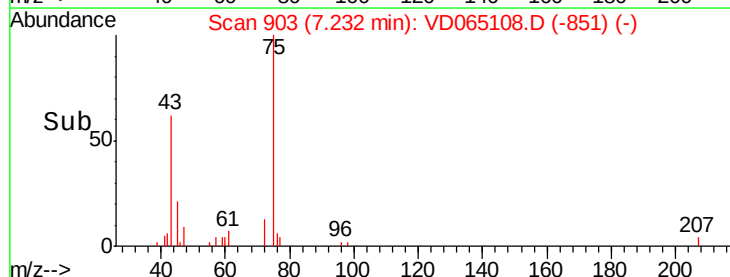
1000

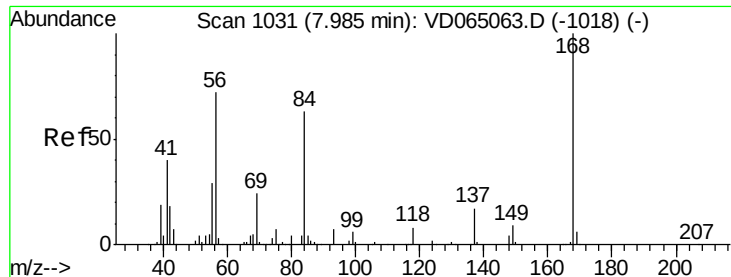
0

7.23

7.10 7.20 7.30

Time-->

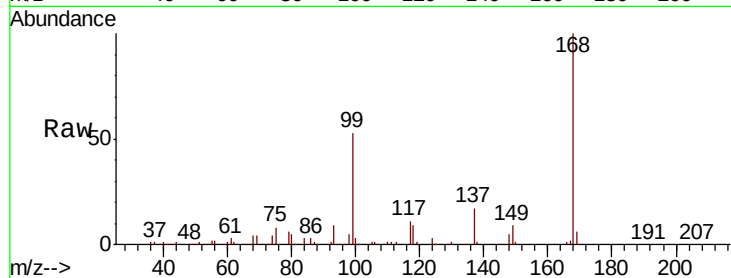




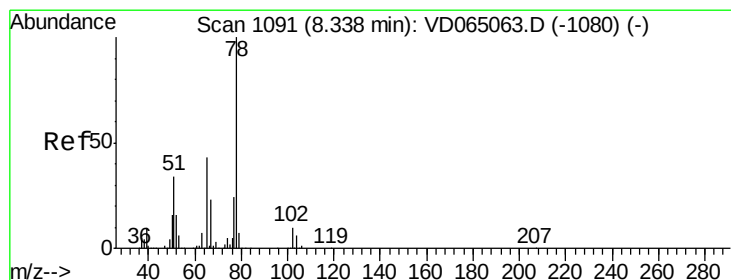
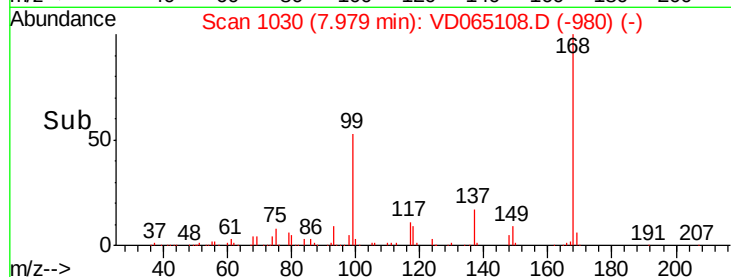
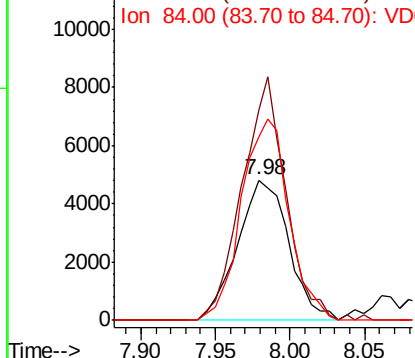
#31
Cyclohexane
Concen: 1.438 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 11444
Ion Ratio Lower Upper
56 100
69 149.7 26.6 40.0#
84 131.4 70.6 106.0#

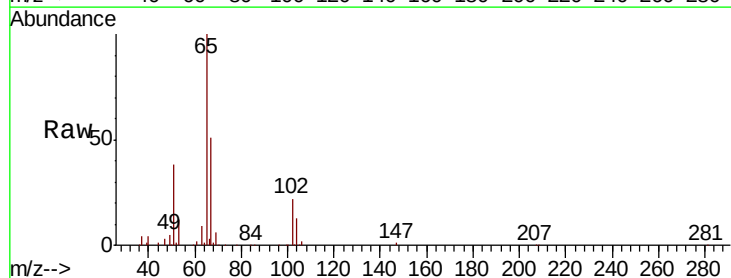


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

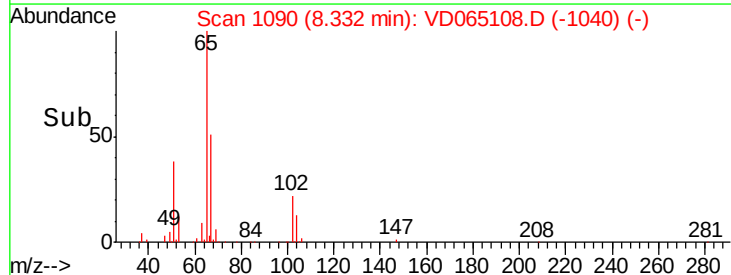
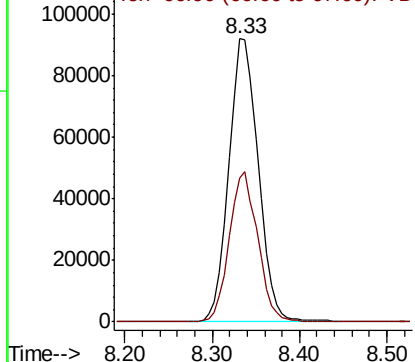


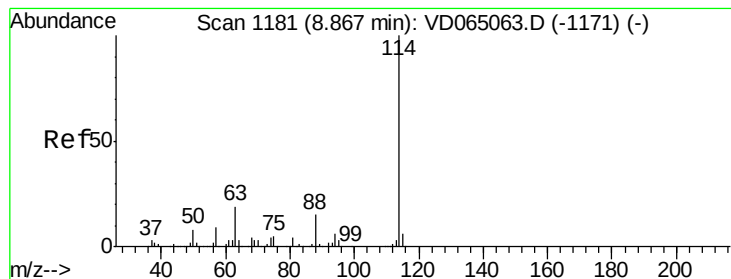
#33
1,2-Dichloroethane-d4
Concen: 52.592 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion: 65 Resp: 210362
Ion Ratio Lower Upper
65 100
67 51.2 0.0 105.8



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: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

ClientSampled :

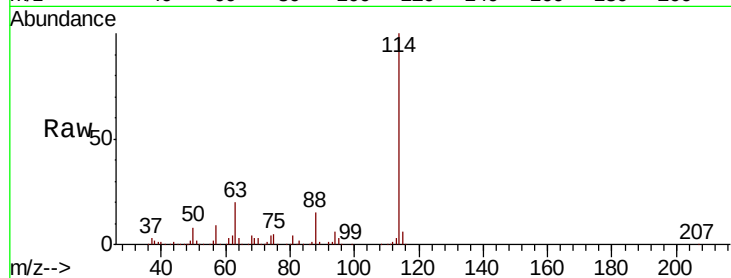
Tot Ion:114 Resp: 748402

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.8

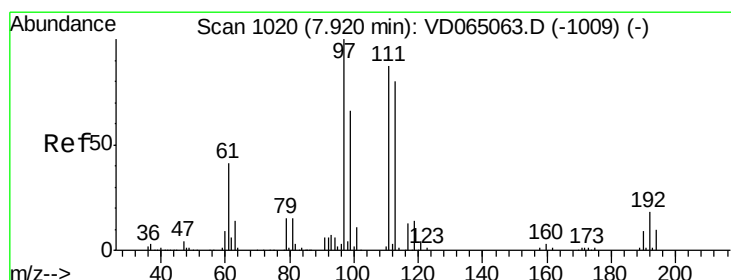
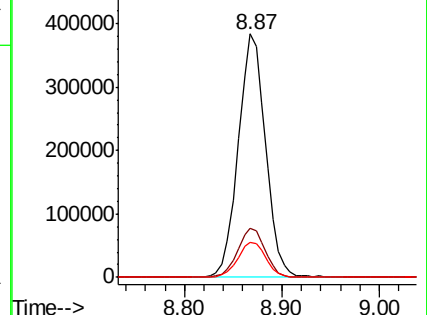
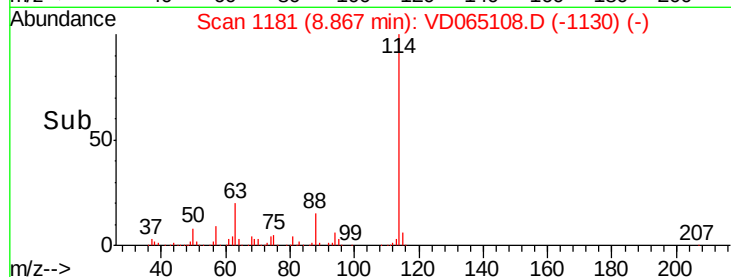
88 14.6 0.0 29.6



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: 54.501 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

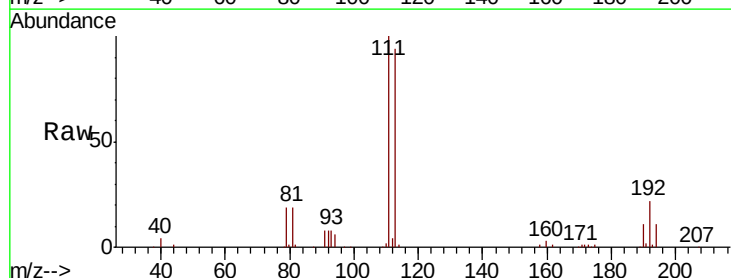
Tgt Ion:113 Resp: 227576

Ion Ratio Lower Upper

113 100

111 102.2 83.1 124.7

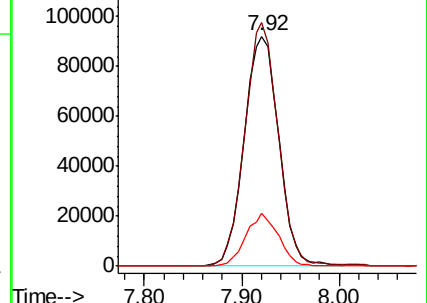
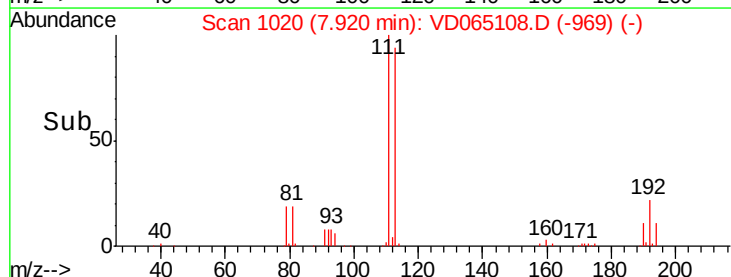
192 21.6 18.1 27.1

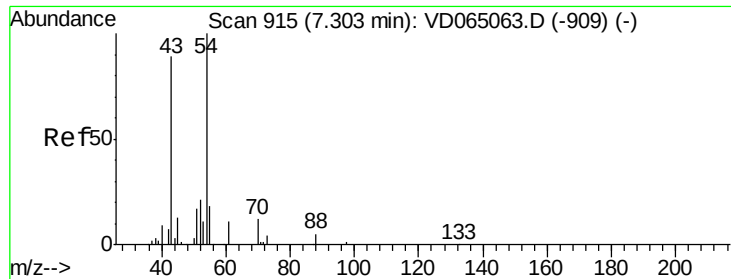


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

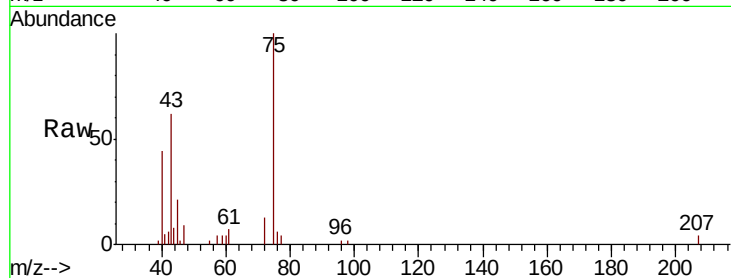




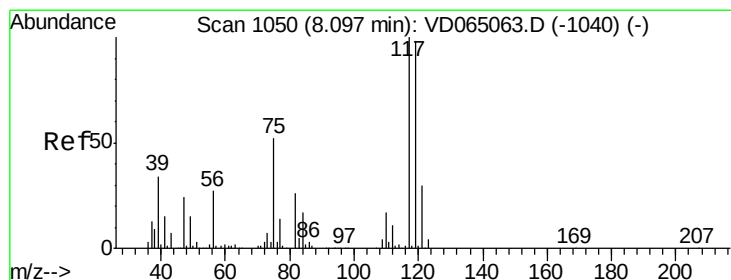
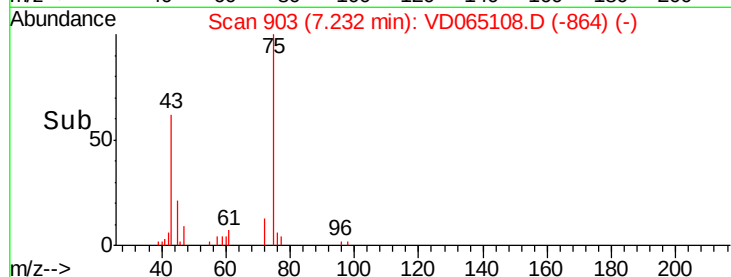
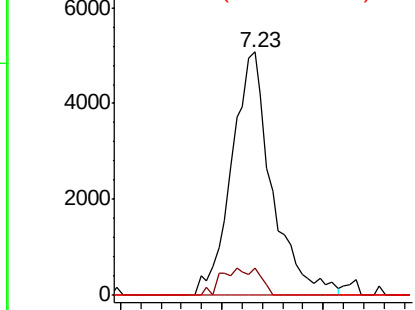
#37
Ethyl Acetate
Concen: 4.916 ug/l
RT: 7.23 min Scan# 903
Delta R.T. -0.07 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 13975
Ion Ratio Lower Upper
43 100
61 10.6 11.0 16.4#
70 0.0 8.2 12.2#

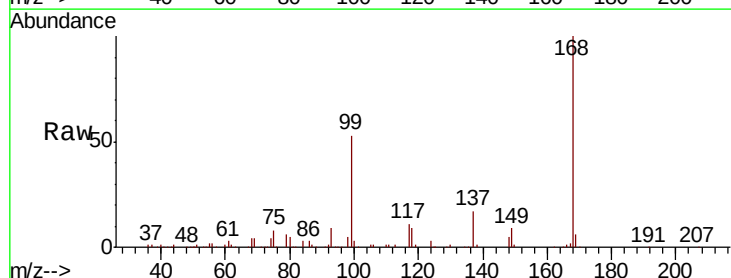


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

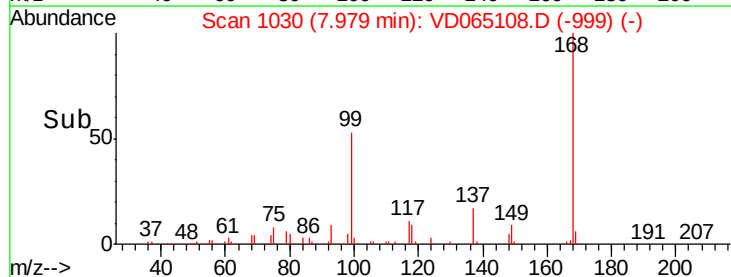
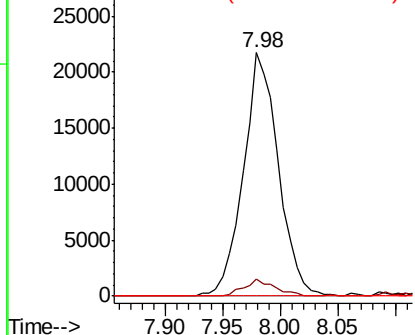


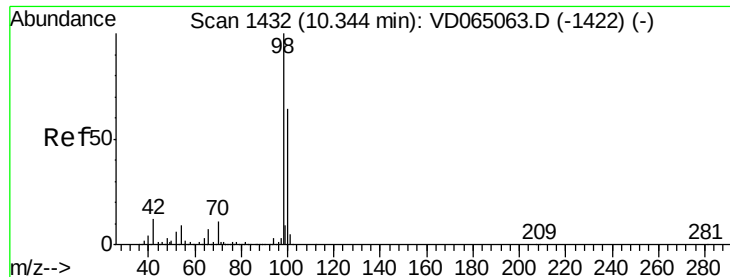
#38
Carbon Tetrachloride
Concen: 6.447 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion: 117 Resp: 45821
Ion Ratio Lower Upper
117 100
119 6.8 78.5 117.7#
121 0.0 23.8 35.6#



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

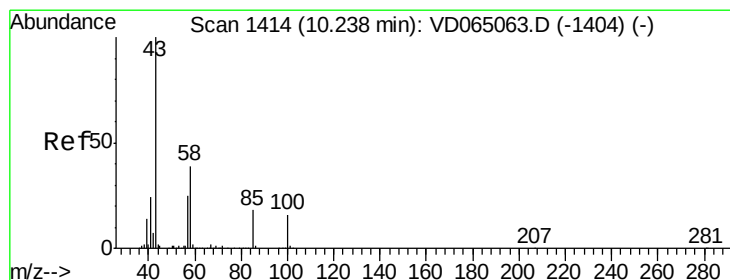
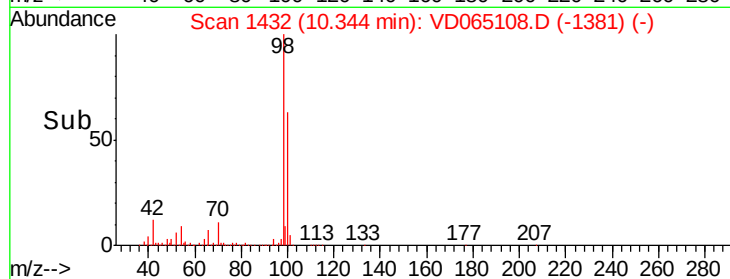
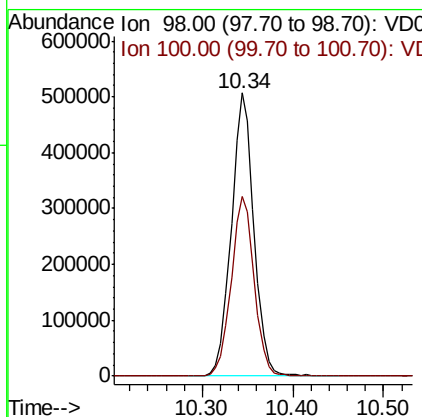
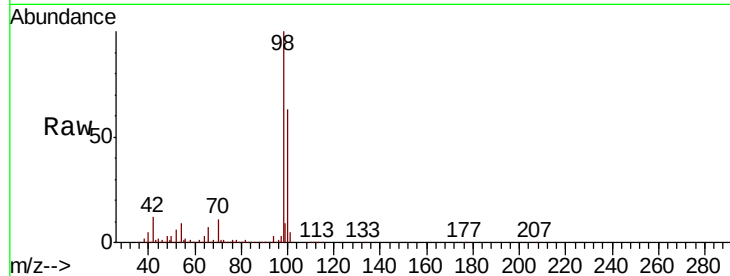




#50
Toluene-d8
Concen: 52.871 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

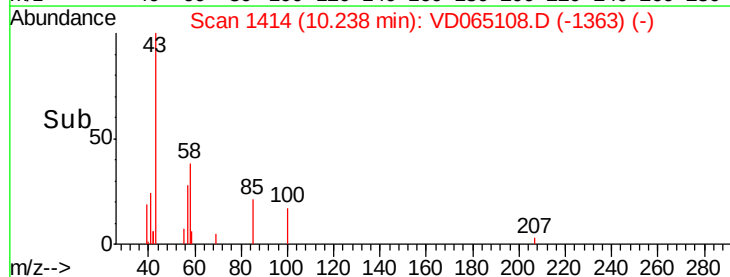
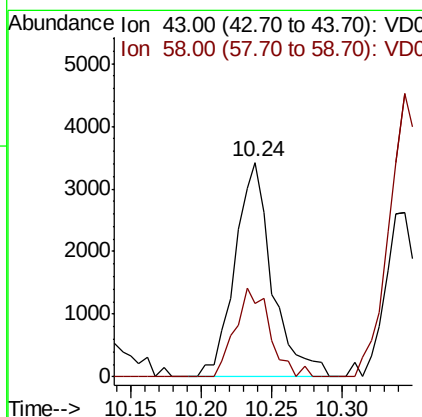
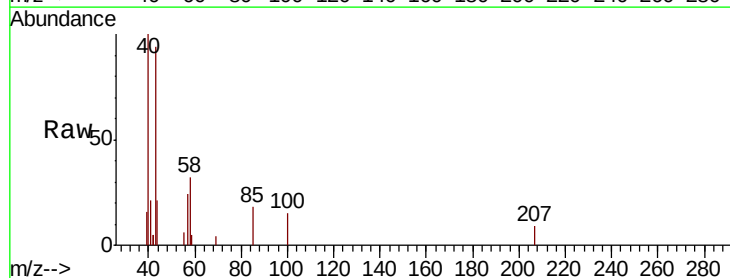
Instrument :
MSVOA_D
ClientSampled :

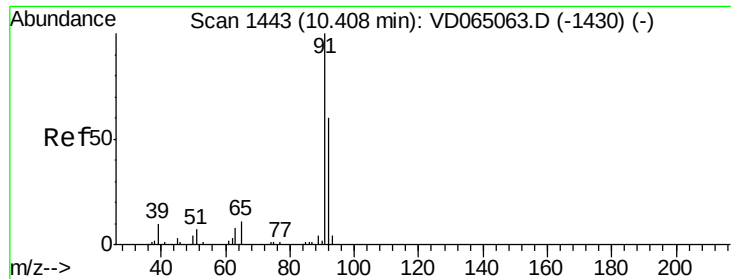
Tot Ion: 98 Resp: 878734
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.360 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion: 43 Resp: 6317
Ion Ratio Lower Upper
43 100
58 38.3 30.2 45.2





#52

Toluene

Concen: 1.471 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

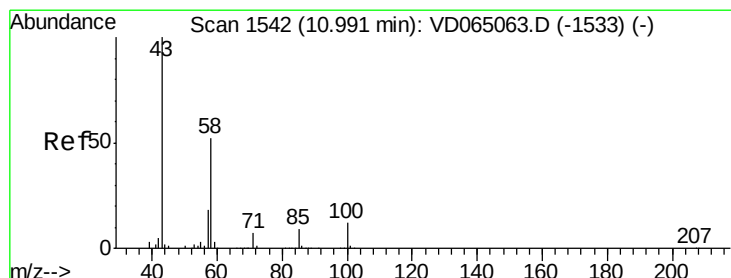
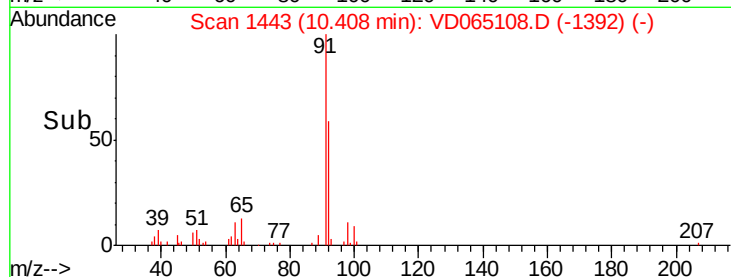
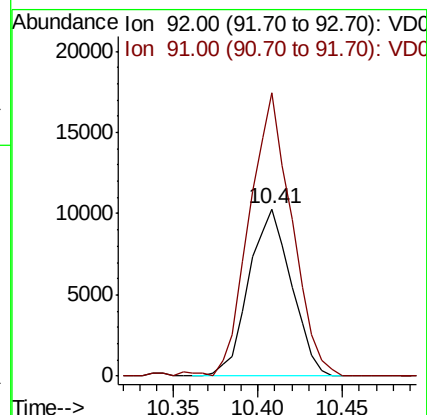
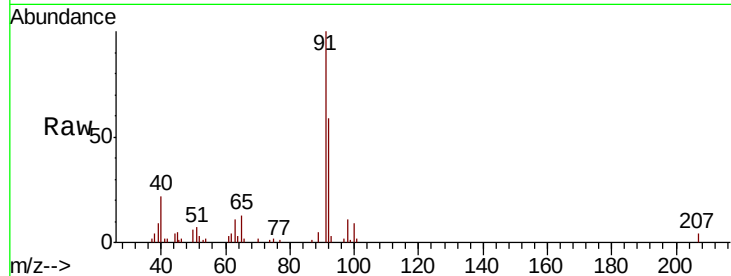
ClientSampled :

Tot Ion: 92 Resp: 18037

Ion Ratio Lower Upper

92 100

91 169.5 135.3 202.9



#59

2-Hexanone

Concen: 2.276 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD065108.D

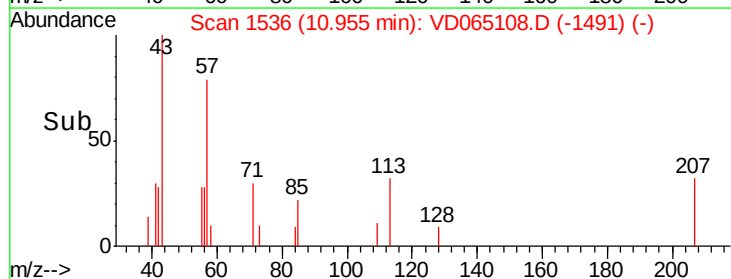
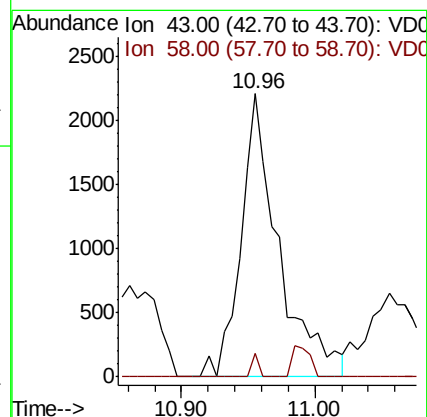
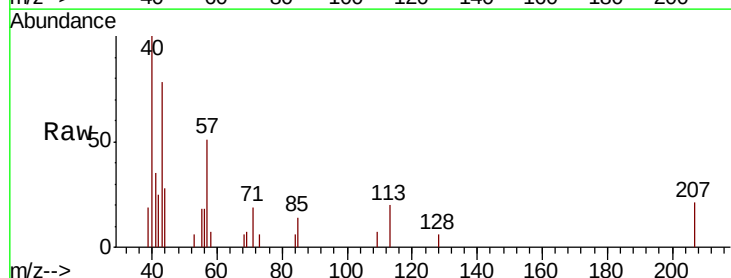
Acq: 07 Feb 2020 14:24

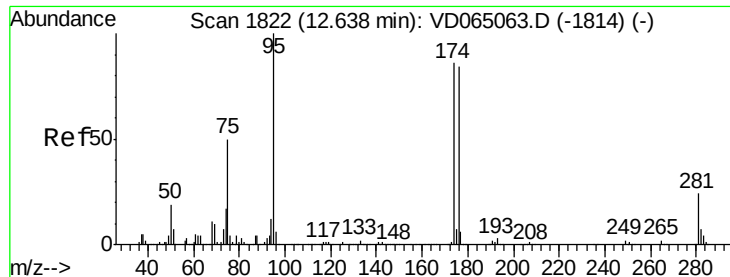
Tgt Ion: 43 Resp: 4316

Ion Ratio Lower Upper

43 100

58 1.5 26.2 78.6#

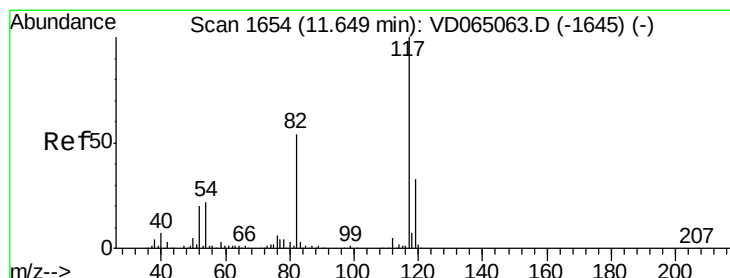
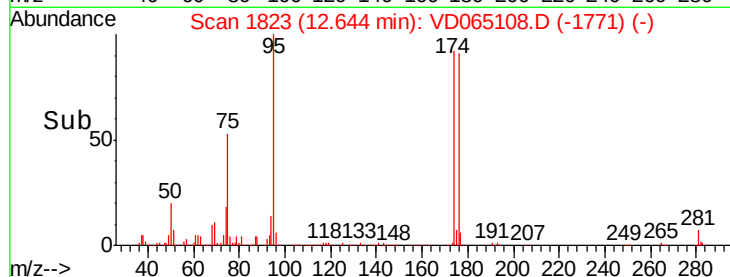
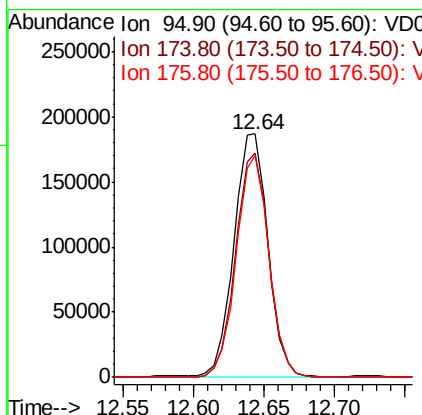
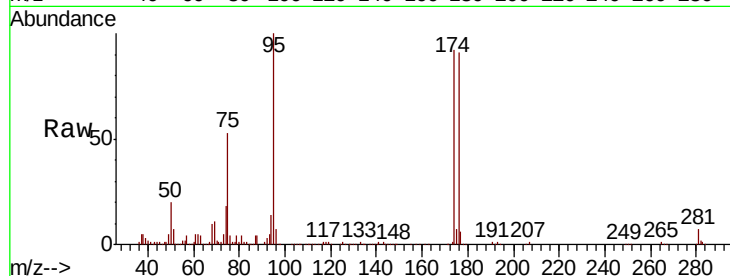




#62
4-Bromofluorobenzene
Concen: 59.217 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

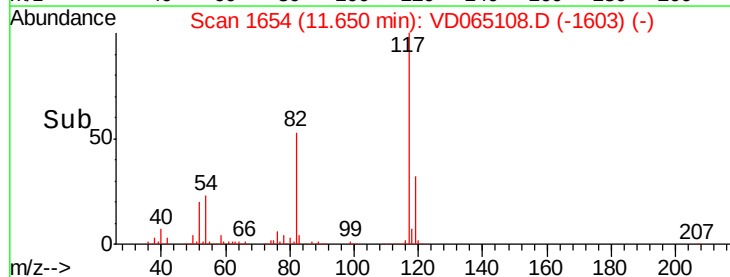
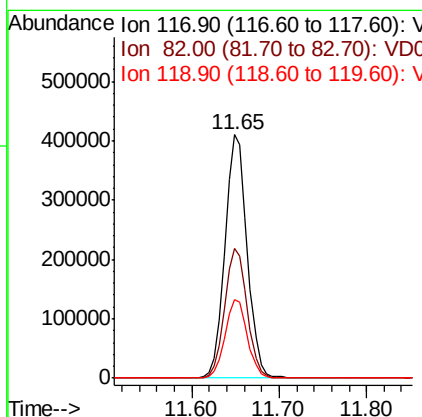
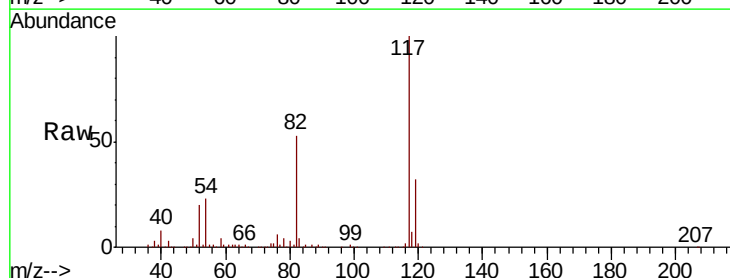
Instrument :
MSVOA_D
ClientSampleId :

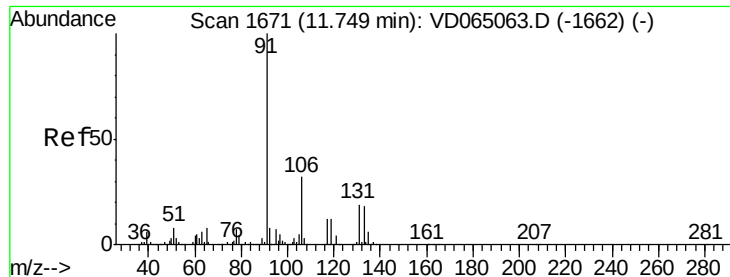
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.6	0.0	180.0
176	88.0	0.0	173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.4	43.1	64.7
119	32.1	26.0	39.0

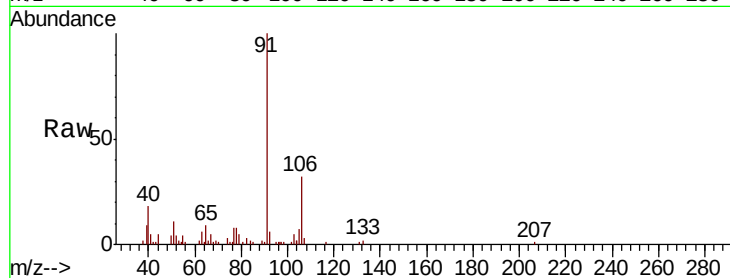




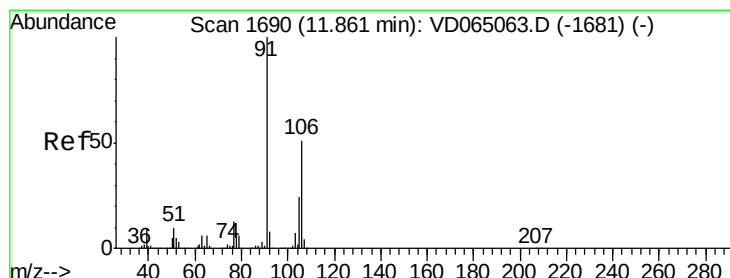
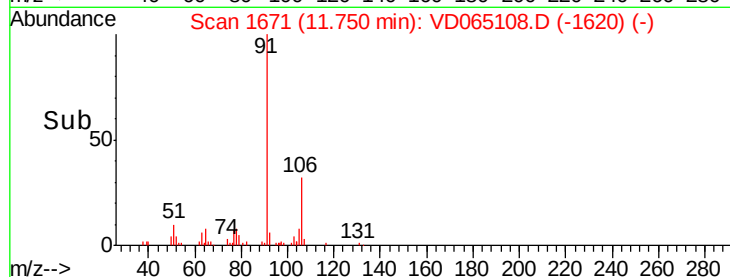
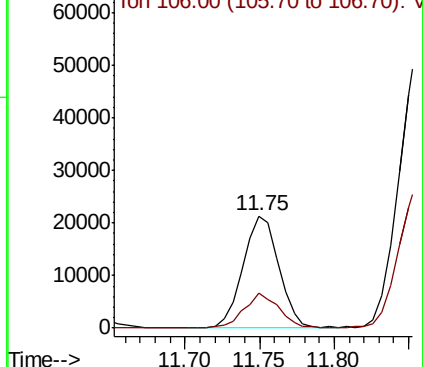
#67
Ethyl Benzene
Concen: 1.421 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 91 Resp: 35636
Ion Ratio Lower Upper
91 100
106 31.6 25.4 38.2

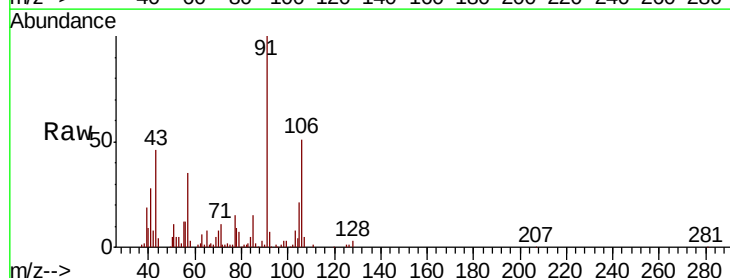


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.00 (105.70 to 106.70): V

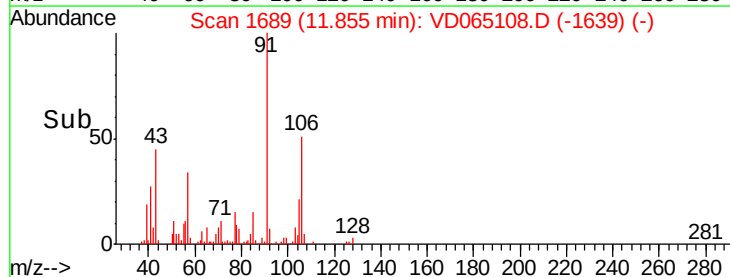
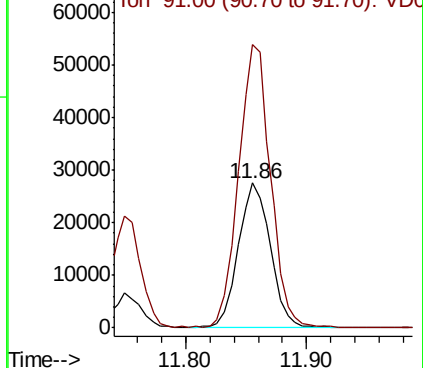


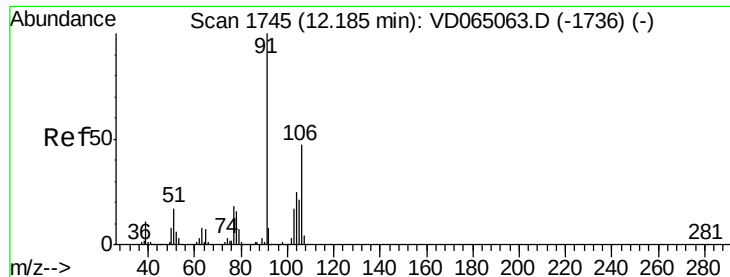
#68
m/p-Xylenes
Concen: 5.340 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion: 106 Resp: 51112
Ion Ratio Lower Upper
106 100
91 195.0 158.9 238.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC

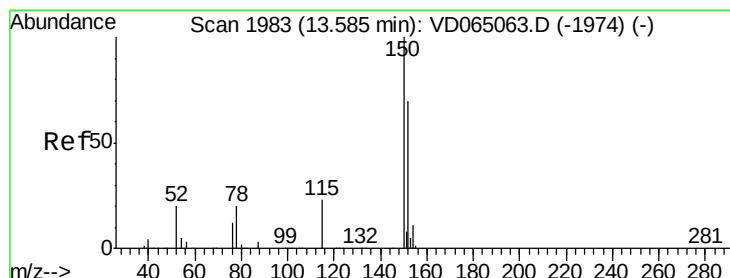
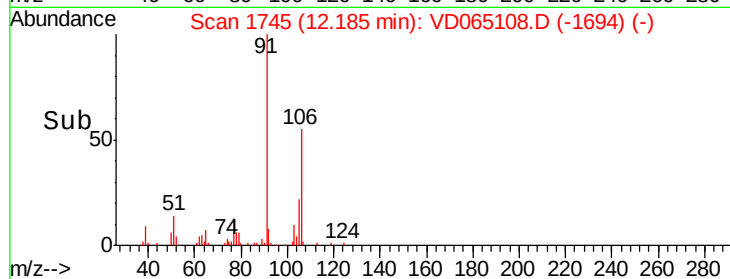
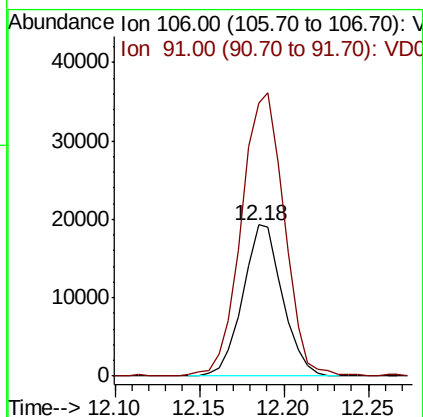
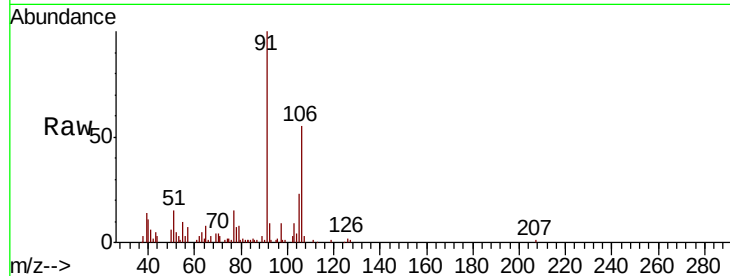




#69
o-Xylene
Concen: 3.661 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

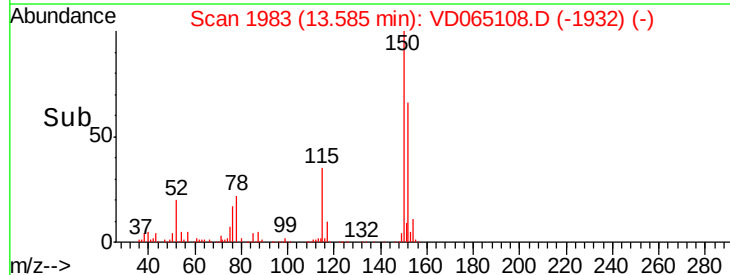
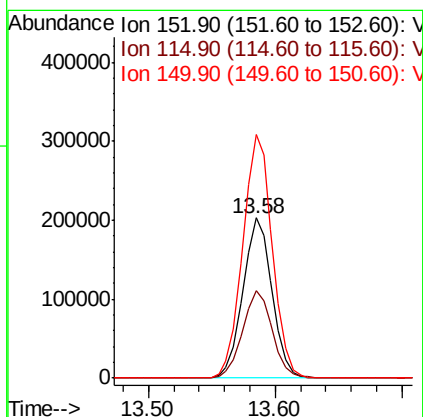
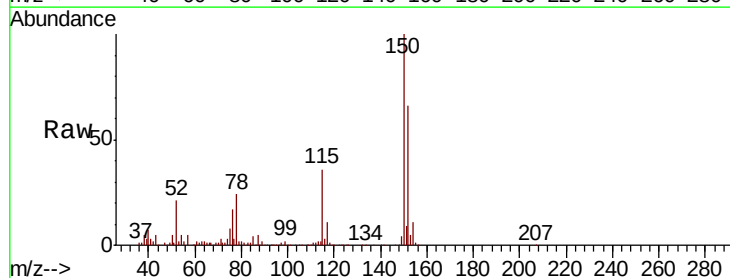
Instrument :
MSVOA_D
ClientSampleId :

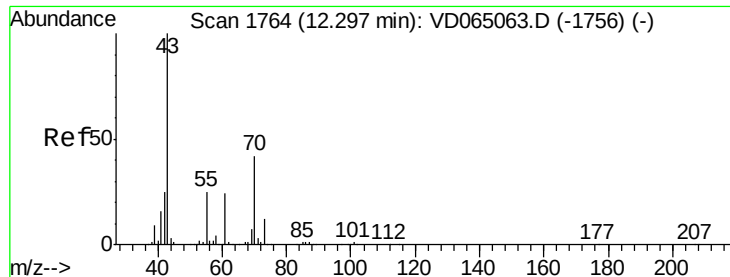
Tot Ion:106 Resp: 31555
Ion Ratio Lower Upper
106 100
91 202.6 104.7 313.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion:152 Resp: 321819
Ion Ratio Lower Upper
152 100
115 56.5 27.5 82.4
150 154.4 0.0 343.2





#74

N-amvl acetate

Concen: 2.513 ug/l

RT: 12.28 min Scan# 1761

Delta R.T. -0.02 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 12067

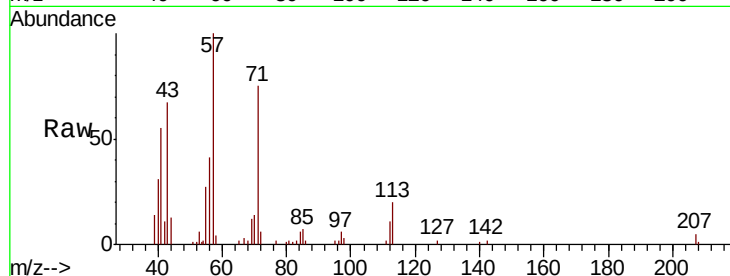
Ion Ratio Lower Upper

43 100

70 21.6 33.5 50.3#

55 21.8 19.4 29.2

61 0.0 18.6 28.0#

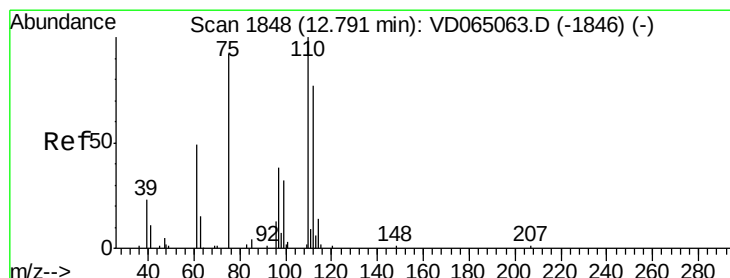
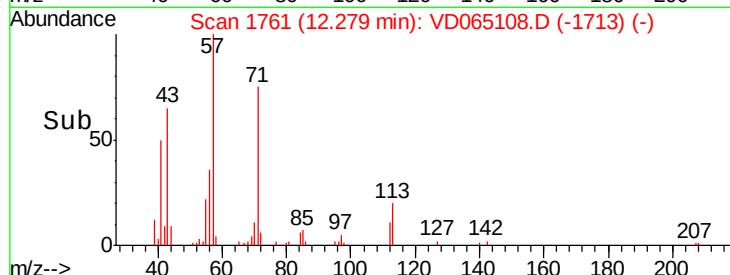
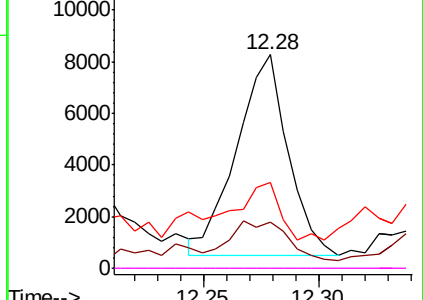


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 66.703 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065108.D

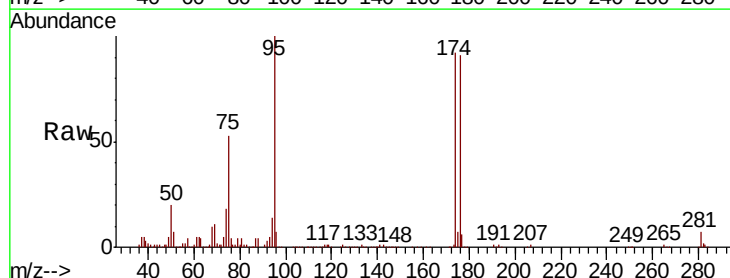
Acq: 07 Feb 2020 14:24

Tgt Ion: 75 Resp: 162523

Ion Ratio Lower Upper

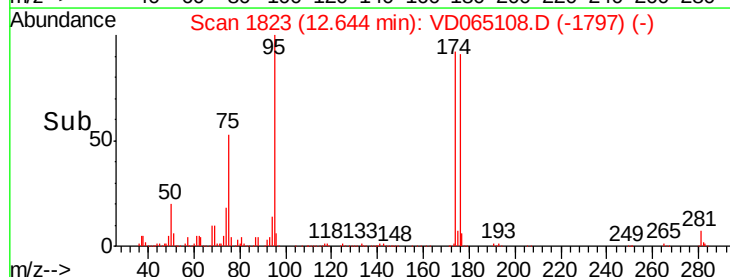
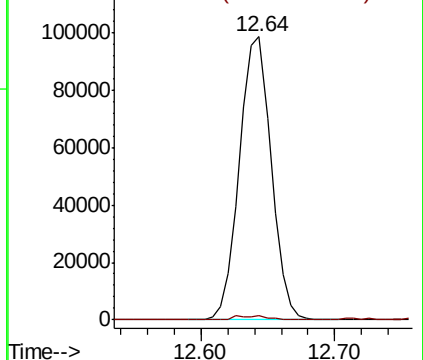
75 100

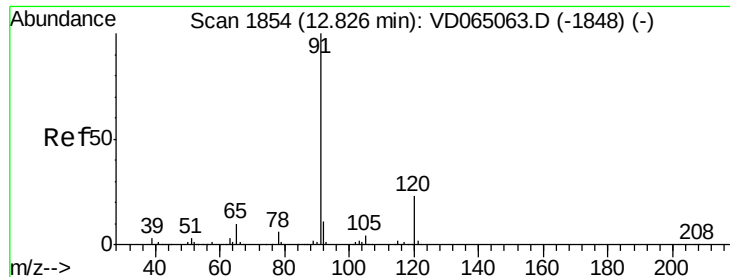
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#78

n-propylbenzene

Concen: 1.704 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

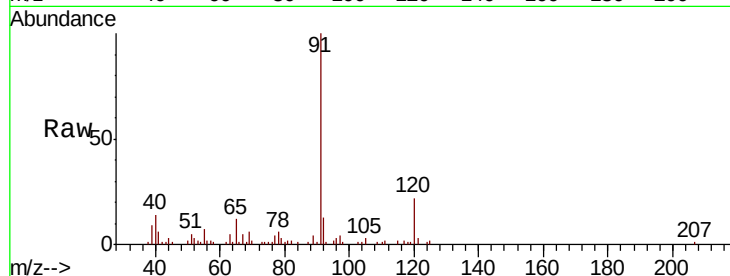
ClientSampleId :

Tot Ion: 91 Resp: 44067

Ion Ratio Lower Upper

91 100

120 22.4 11.8 35.3

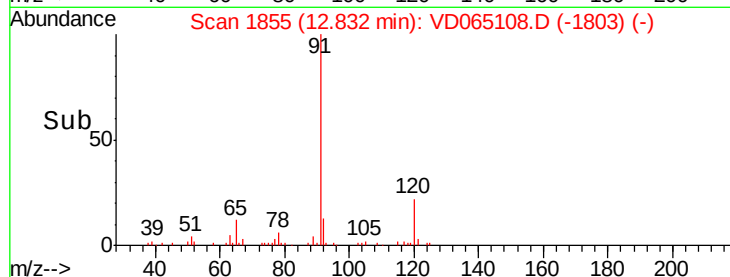


Abundance Ion 91.00 (90.70 to 91.70): VD065108.D (-1803) (-)

Ion 120.00 (119.70 to 120.70): VD065108.D (-1803) (-)

12.83

Time-->



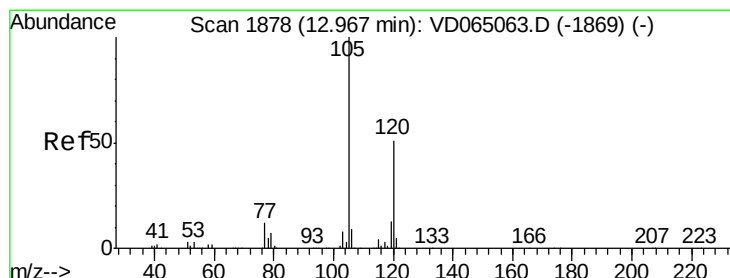
Abundance

Ion 91.00 (90.70 to 91.70): VD065108.D (-1803) (-)

Ion 120.00 (119.70 to 120.70): VD065108.D (-1803) (-)

12.83

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 3.153 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065108.D

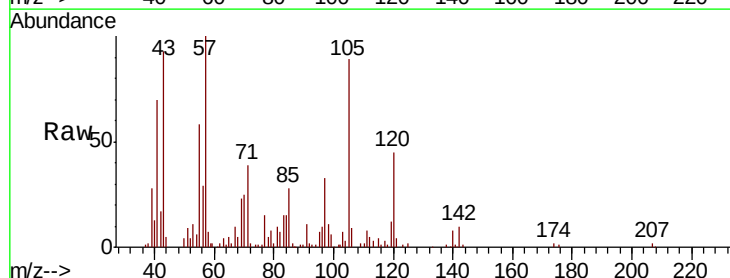
Acq: 07 Feb 2020 14:24

Tgt Ion: 105 Resp: 56971

Ion Ratio Lower Upper

105 100

120 47.8 25.1 75.4

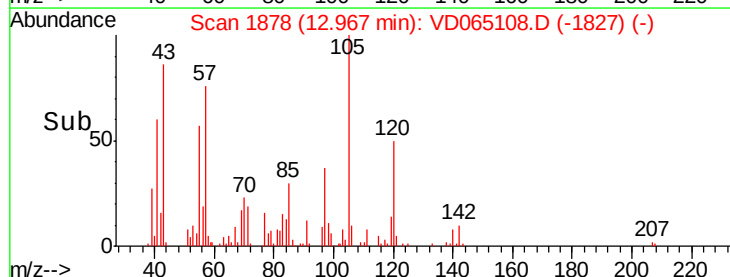


Abundance Ion 105.00 (104.70 to 105.70): VD065108.D (-1827) (-)

Ion 120.00 (119.70 to 120.70): VD065108.D (-1827) (-)

12.97

Time-->



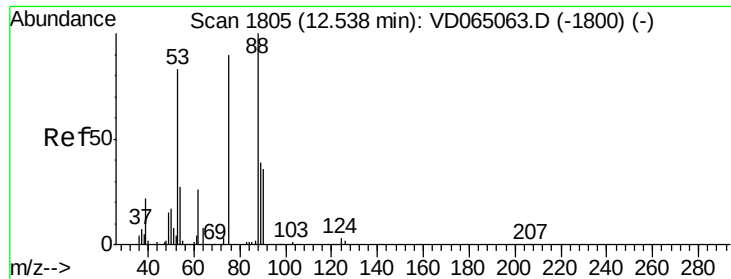
Abundance

Ion 105.00 (104.70 to 105.70): VD065108.D (-1827) (-)

Ion 120.00 (119.70 to 120.70): VD065108.D (-1827) (-)

12.97

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 133.401 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

ClientSampled :

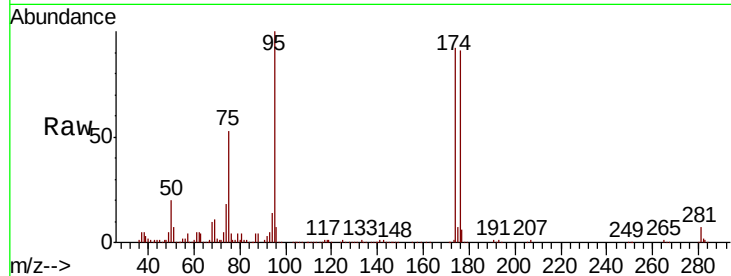
Tot Ion: 75 Resp: 162523

Ion Ratio Lower Upper

75 100

53 0.5 78.5 117.7#

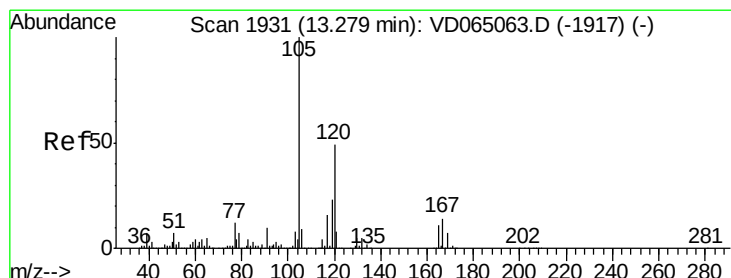
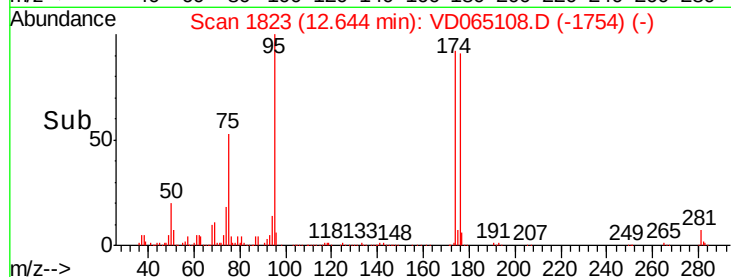
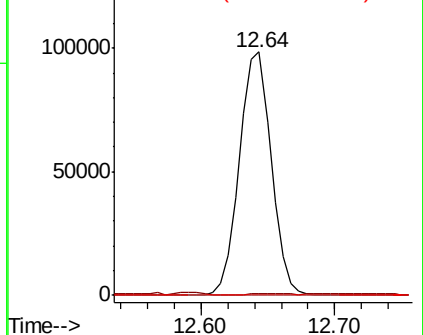
89 0.0 37.0 55.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 11.203 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VD065108.D

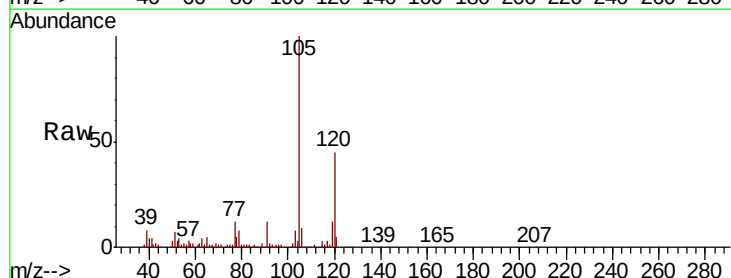
Acq: 07 Feb 2020 14:24

Tgt Ion:105 Resp: 200979

Ion Ratio Lower Upper

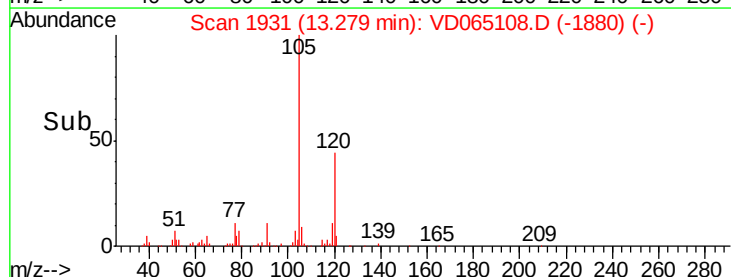
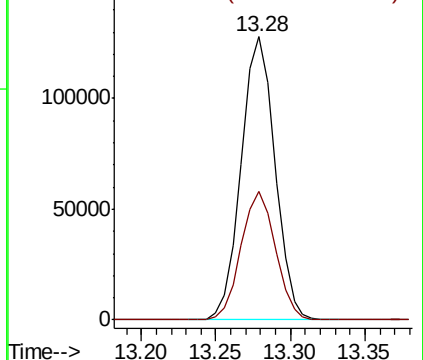
105 100

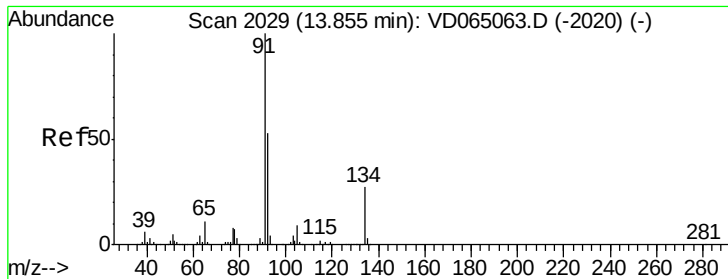
120 46.2 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

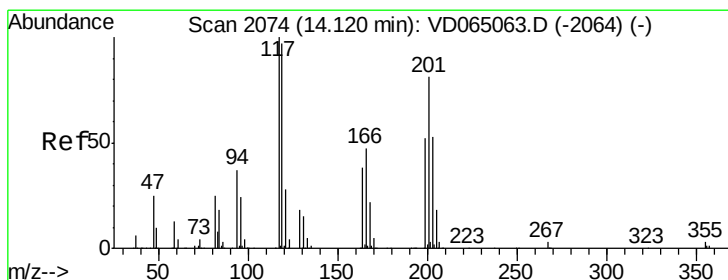
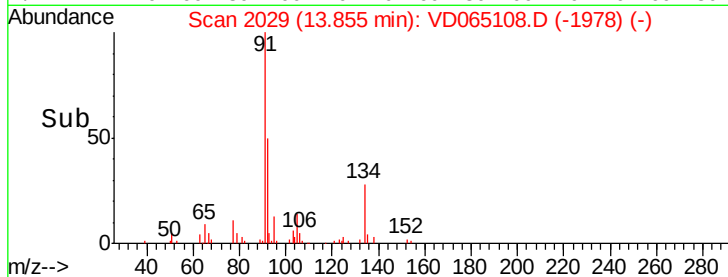
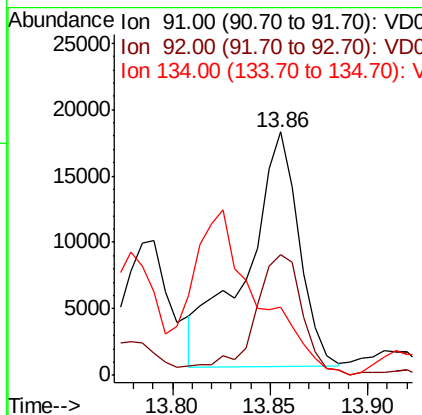
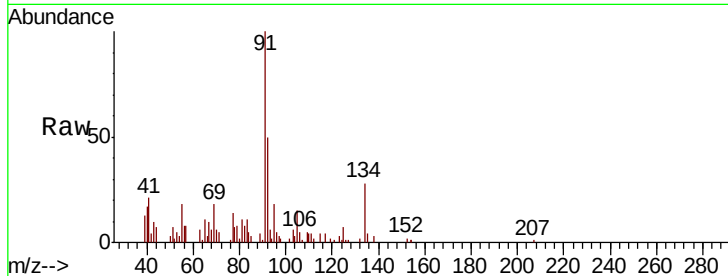




#89
n-Butylbenzene
Concen: 1.805 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

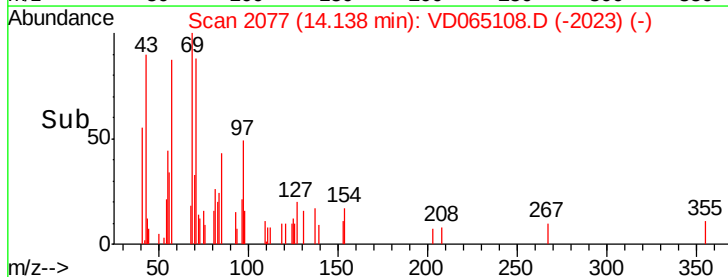
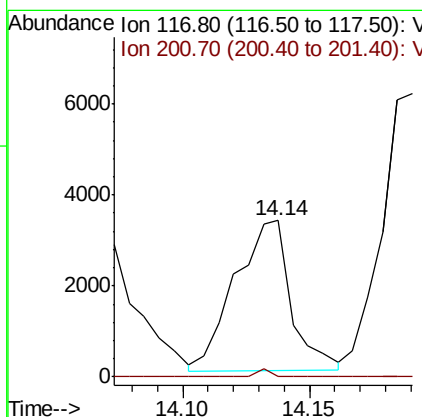
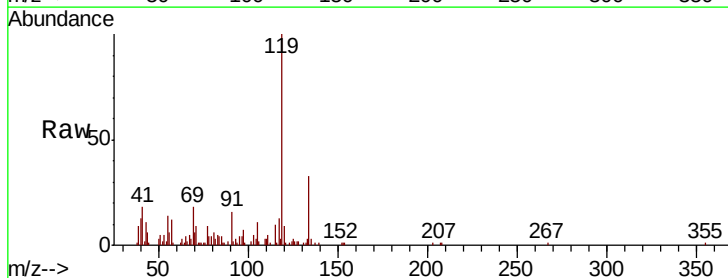
Instrument :
MSVOA_D
ClientSampled :

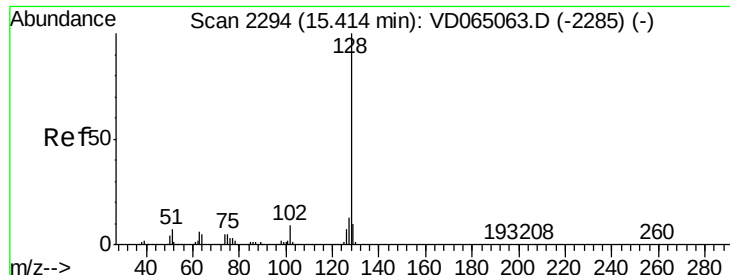
Tot Ion: 91 Resp: 32959
Ion Ratio Lower Upper
91 100
92 47.8 26.7 80.1
134 0.0 13.4 40.2#



#90
Hexachloroethane
Concen: 1.364 ug/l
RT: 14.14 min Scan# 2077
Delta R.T. 0.02 min
Lab File: VD065108.D
Acq: 07 Feb 2020 14:24

Tgt Ion: 117 Resp: 5110
Ion Ratio Lower Upper
117 100
201 1.2 42.5 127.6#





#95

Naphthalene

Concen: 2.110 ug/l

RT: 15.42 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VD065108.D

Acq: 07 Feb 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

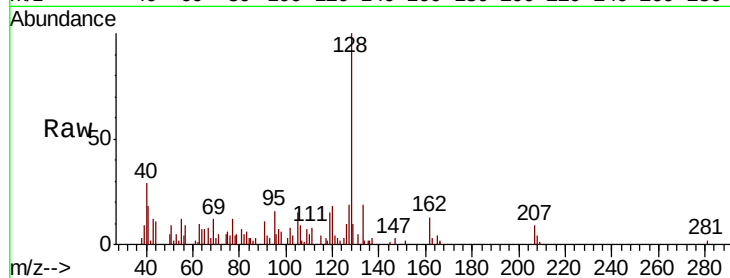
Tot Ion:128 Resp: 21394

Ion Ratio Lower Upper

128 100

127 21.2 10.6 15.8#

129 10.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

15000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

