

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067064.D
 Acq On : 03 Oct 2020 05:39
 Operator : VA/SY
 Sample : L4247-10
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-20(12-14)

Quant Time: Oct 03 06:51:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	564613	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	924741	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	850835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	385685	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	262198	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
35) Dibromofluoromethane	7.91	113	292107	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	10.34	98	1086256	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
62) 4-Bromofluorobenzene	12.63	95	363111	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	

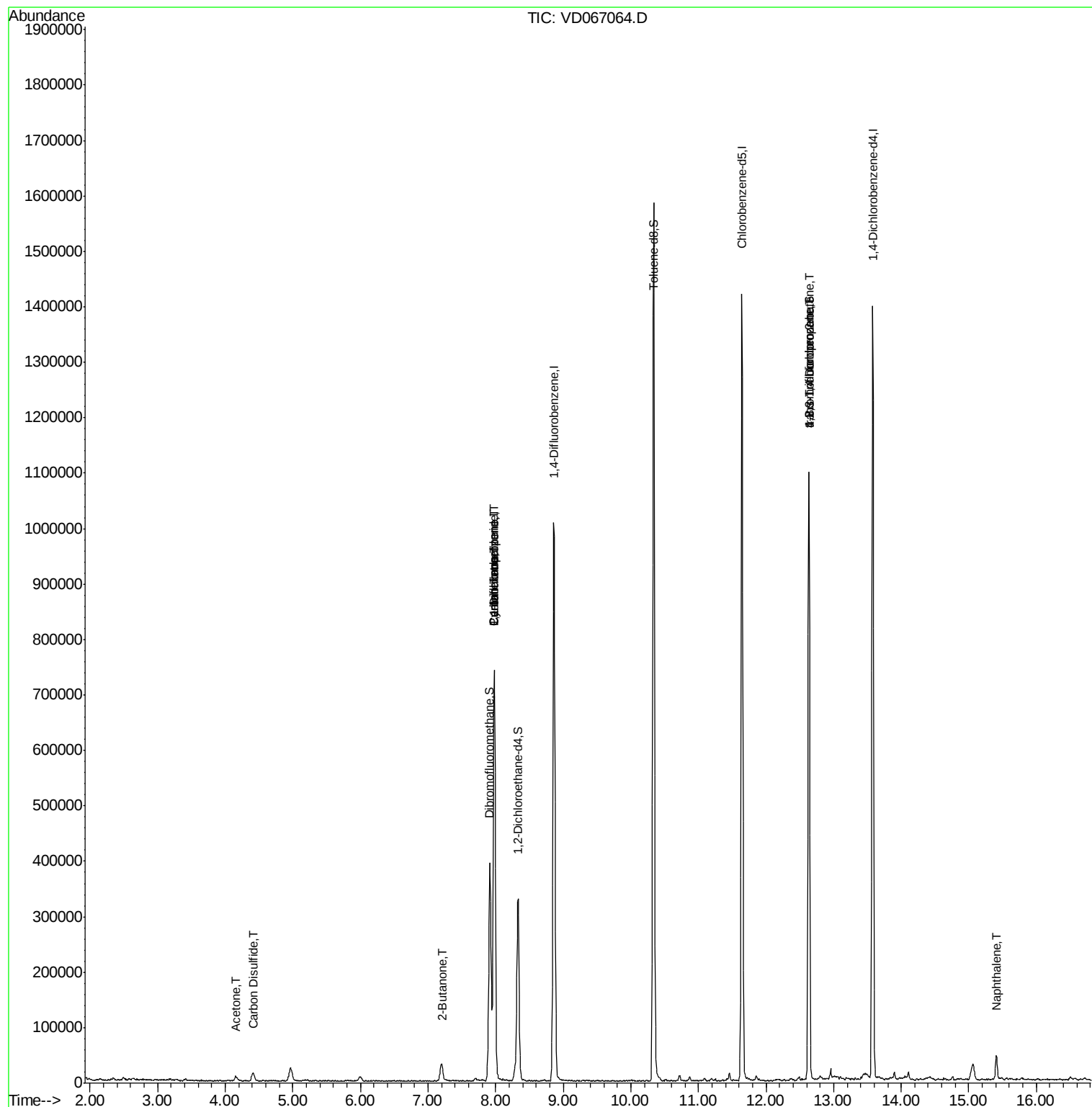
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	1694	Below Cal		100
5) Bromomethane	2.77	94	602	Below Cal	#	77
11) Tert butyl alcohol	5.18	59	271	Below Cal	#	72
16) Acetone	4.16	43	13618	16.404	ug/l #	75
17) Carbon Disulfide	4.41	76	33181	2.031	ug/l	97
20) Methylene Chloride	4.97	84	19459	Below Cal	#	97
25) 2-Butanone	7.21	43	4469	3.797	ug/l #	85
26) 2,2-Dichloropropane	7.20	77	2656	Below Cal	#	53
31) Cyclohexane	7.98	56	11926	1.460	ug/l #	17
36) 1,1-Dichloropropene	7.98	75	42095	4.884	ug/l #	48
38) Carbon Tetrachloride	7.98	117	56478	6.056	ug/l #	15
76) 1,2,3-Trichloropropane	12.63	75	175581	52.265	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	175581	130.303	ug/l #	12
95) Naphthalene	15.41	128	40801	3.516	ug/l	99

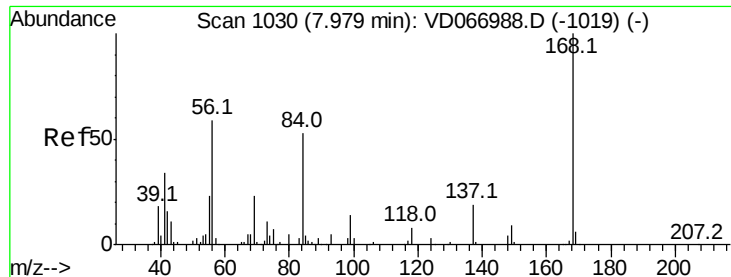
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100220\
Data File : VD067064.D
Acq On : 03 Oct 2020 05:39
Operator : VA/SY
Sample : L4247-10
Misc : 5.02G/5.00ml/MSVOA D/SOIL
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
B-20(12-14)

Quant Time: Oct 03 06:51:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 15:19:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

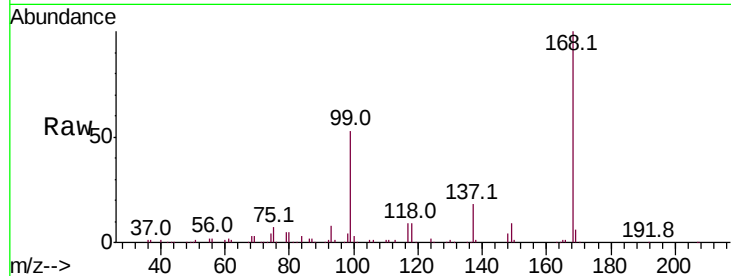
B-20(12-14)

Tot Ion:168 Resp: 564613

Ion Ratio Lower Upper

168 100

99 52.8 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

250000

200000

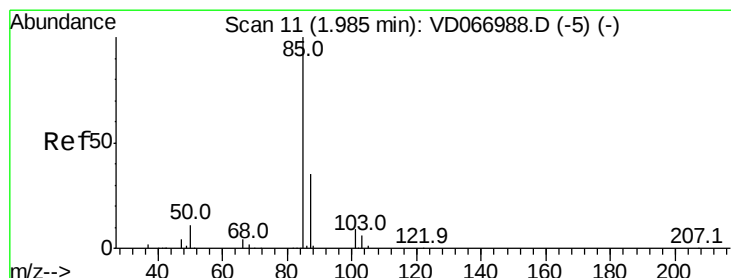
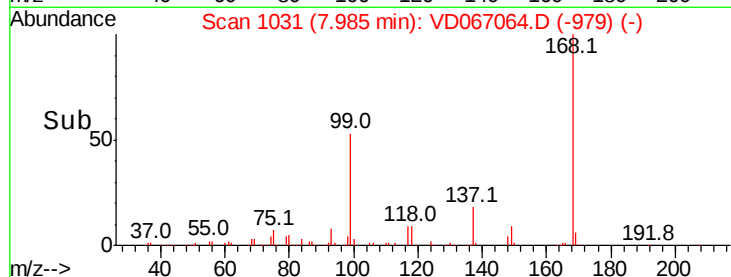
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067064.D

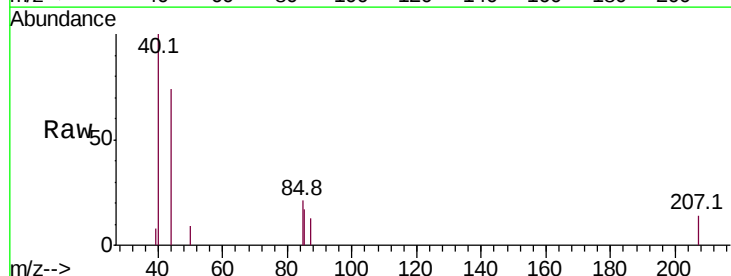
Acq: 03 Oct 2020 05:39

Tgt Ion: 85 Resp: 1694

Ion Ratio Lower Upper

85 100

87 35.0 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

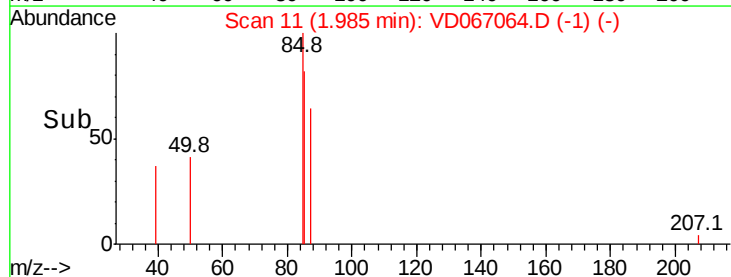
1.99

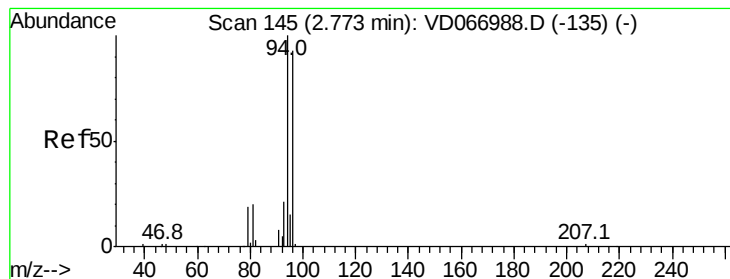
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

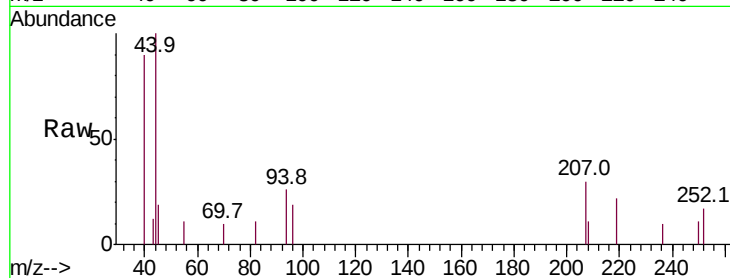
B-20(12-14)

Tot Ion: 94 Resp: 602

Ion Ratio Lower Upper

94 100

96 71.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

400

300

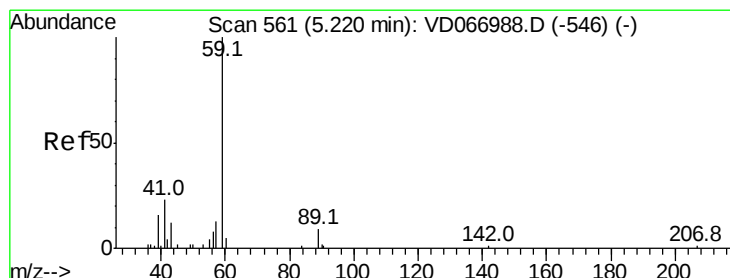
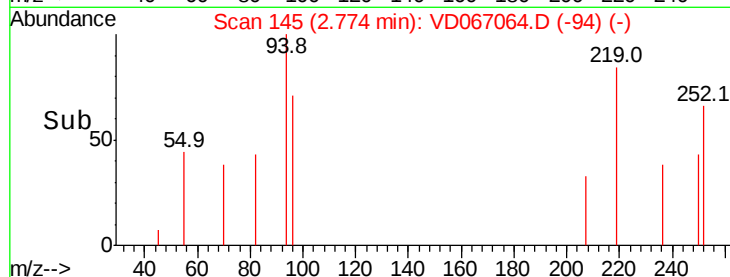
200

100

0

2.74 2.76 2.78 2.80

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 554

Delta R.T. -0.04 min

Lab File: VD067064.D

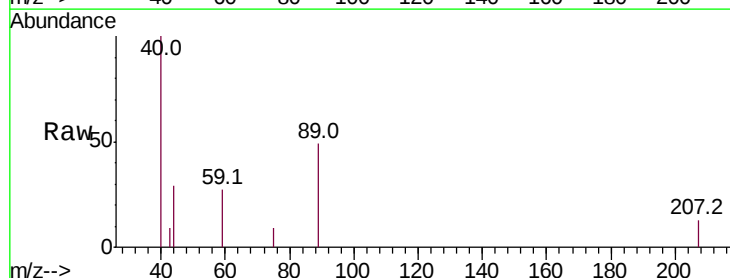
Acq: 03 Oct 2020 05:39

Tgt Ion: 59 Resp: 271

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

800

600

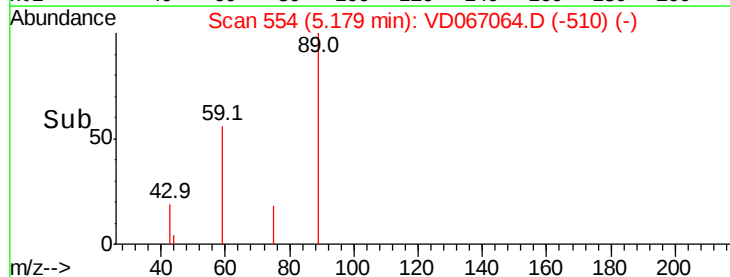
400

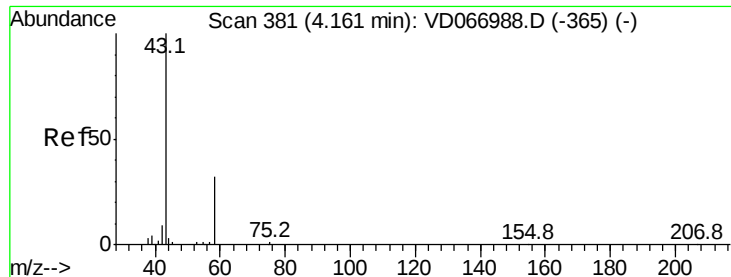
200

0

5.16 5.17 5.18 5.19

Time-->





#16

Acetone

Concen: 16.404 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

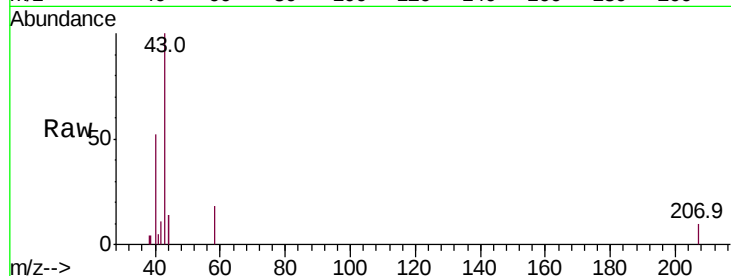
B-20(12-14)

Tot Ion: 43 Resp: 13618

Ion Ratio Lower Upper

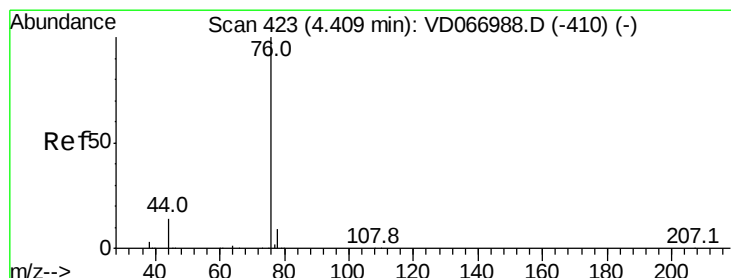
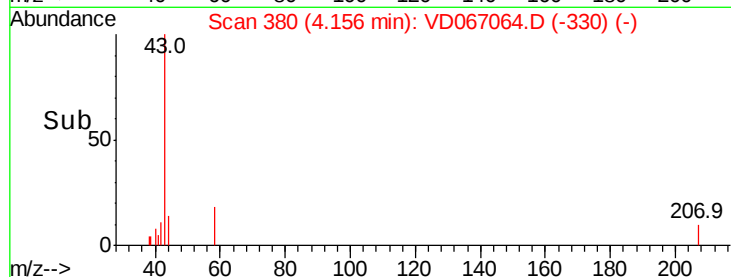
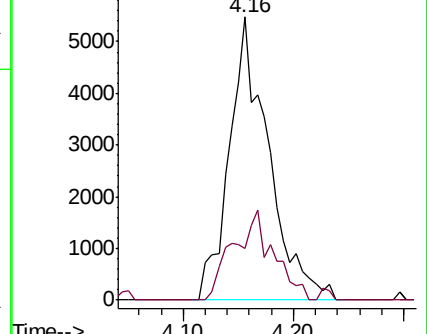
43 100

58 18.5 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 2.031 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD067064.D

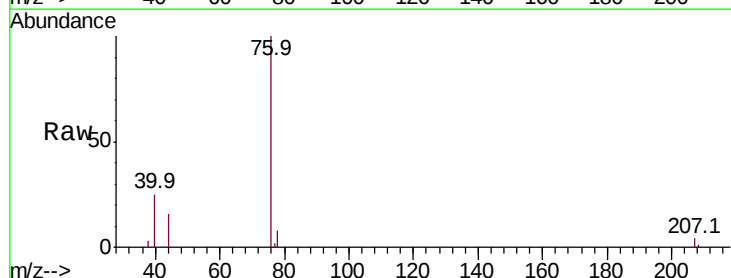
Acq: 03 Oct 2020 05:39

Tgt Ion: 76 Resp: 33181

Ion Ratio Lower Upper

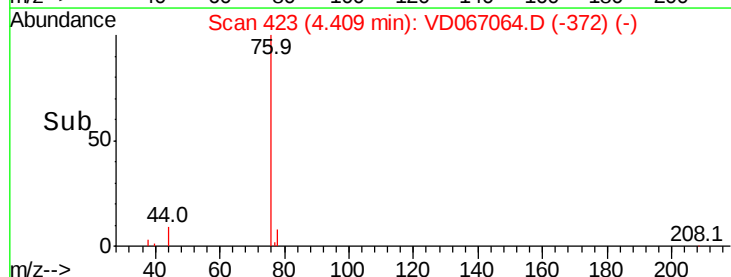
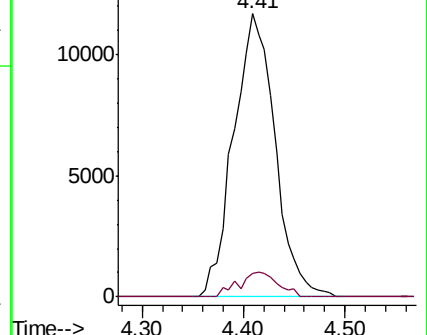
76 100

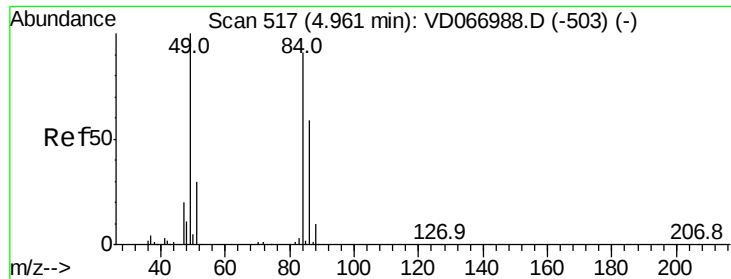
78 8.2 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

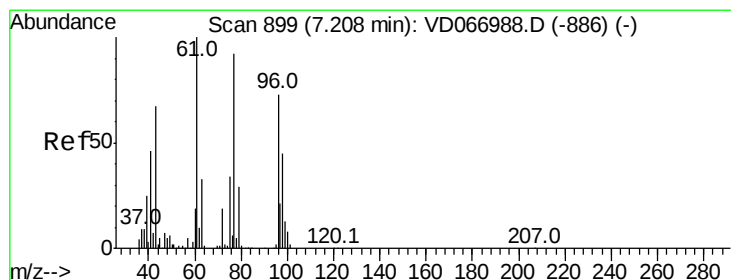
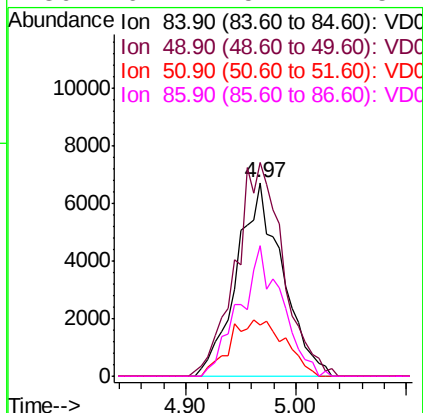
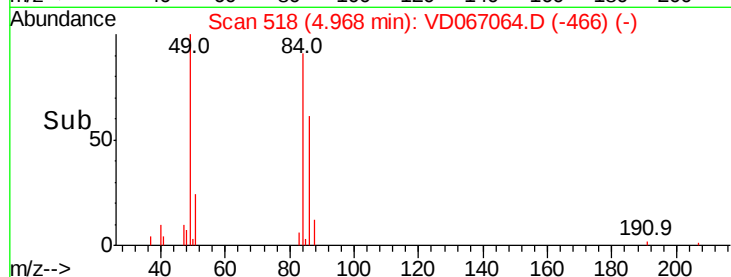
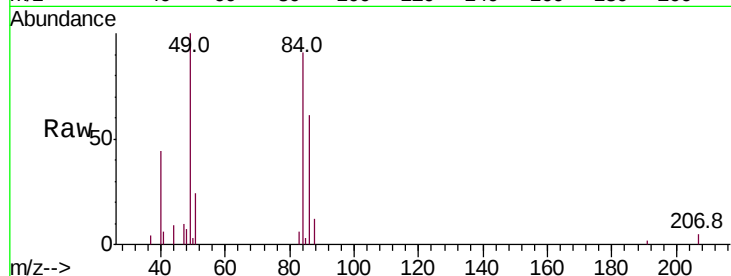




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067064.D
Acq: 03 Oct 2020 05:39

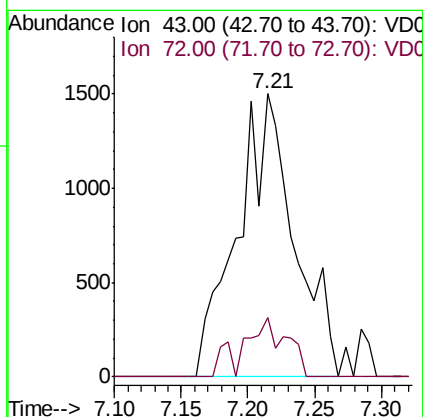
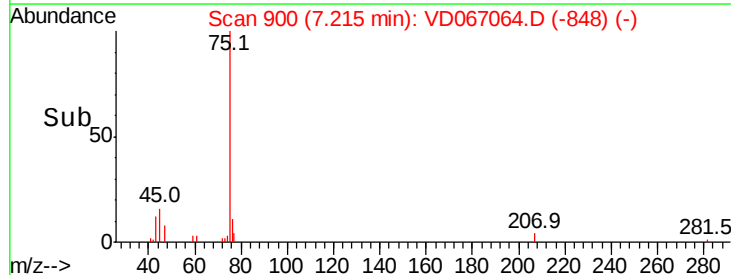
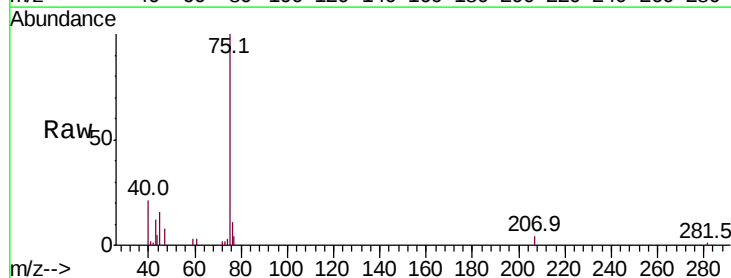
Instrument :
MSVOA_D
ClientSampleId :
B-20(12-14)

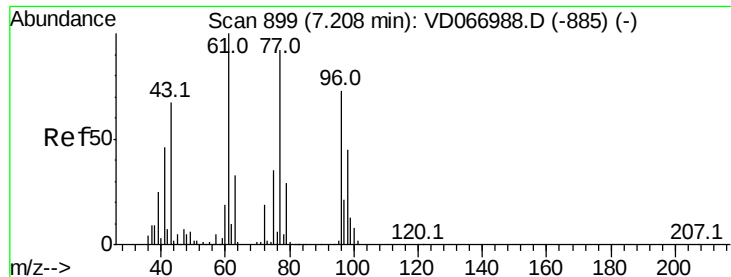
Tot Ion: 84 Resp: 19459
Ion Ratio Lower Upper
84 100
49 110.3 88.2 132.2
51 26.4 26.6 39.8#
86 67.7 52.1 78.1



#25
2-Butanone
Concen: 3.797 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD067064.D
Acq: 03 Oct 2020 05:39

Tgt Ion: 43 Resp: 4469
Ion Ratio Lower Upper
43 100
72 20.8 22.8 34.2#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

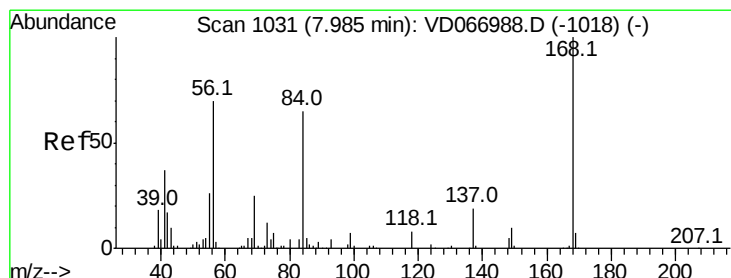
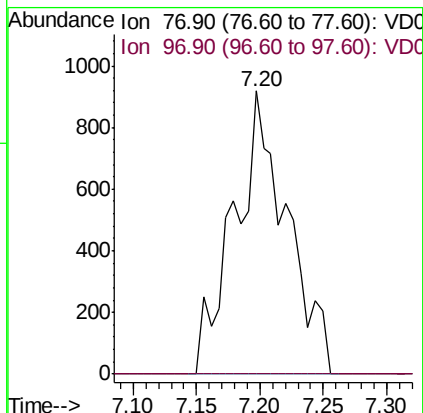
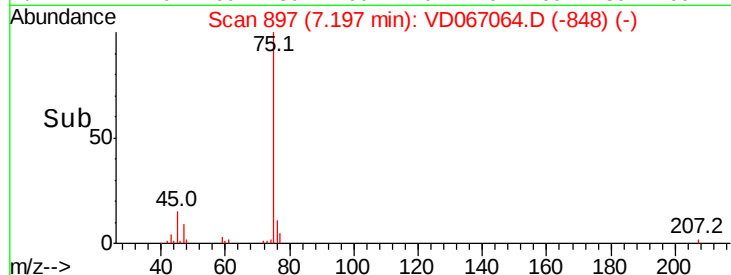
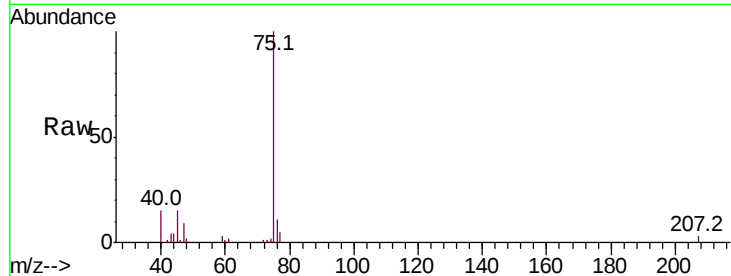
B-20(12-14)

Tot Ion: 77 Resp: 2656

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#31

Cyclohexane

Concen: 1.460 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

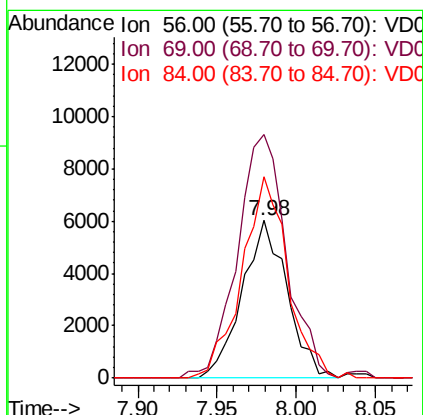
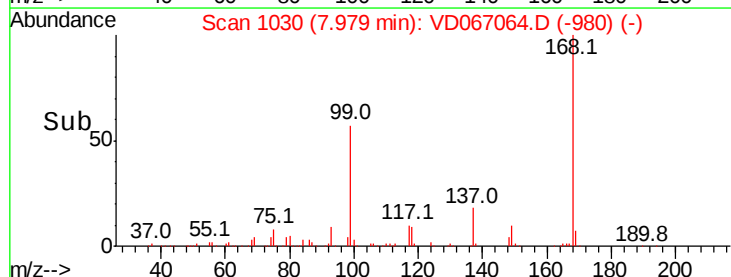
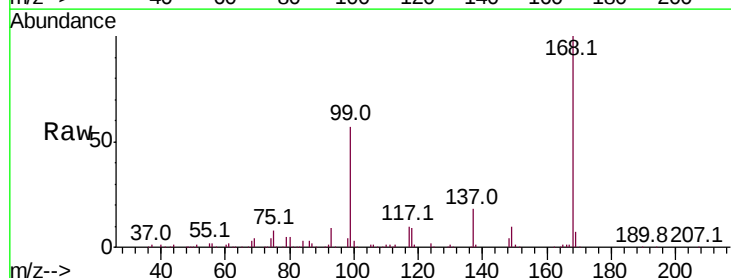
Tgt Ion: 56 Resp: 11926

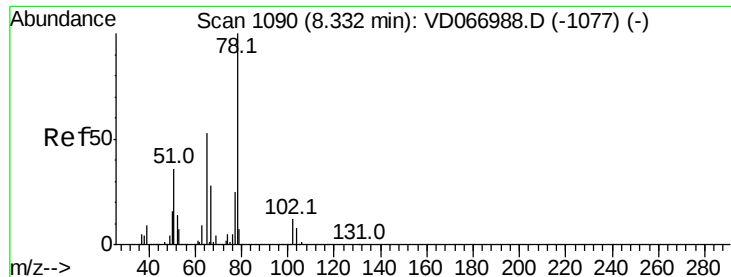
Ion Ratio Lower Upper

56 100

69 154.4 29.0 43.6#

84 127.9 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: 48.213 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

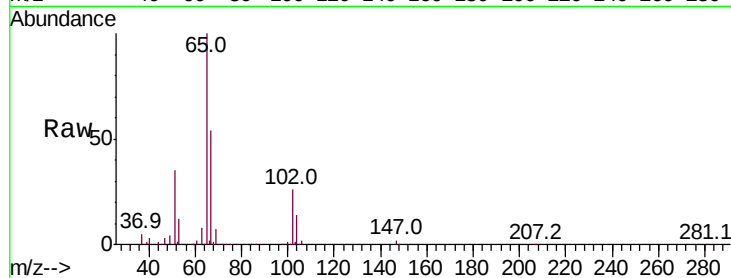
B-20(12-14)

Tot Ion: 65 Resp: 262198

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

120000

100000

80000

60000

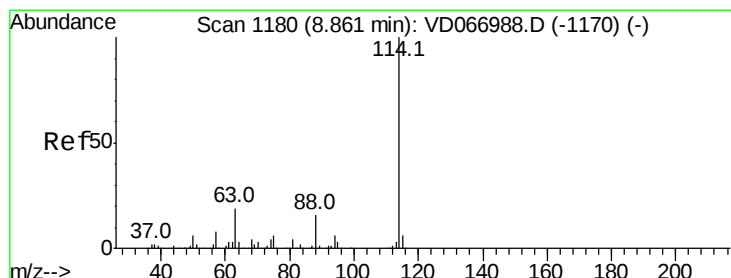
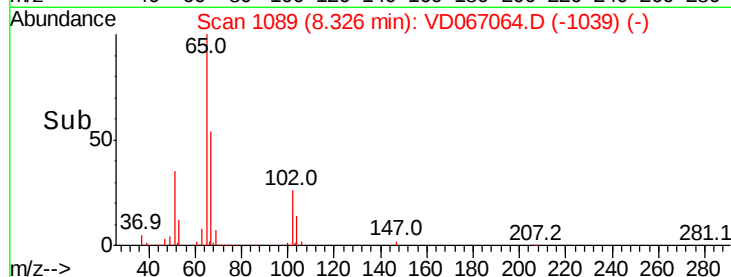
40000

20000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

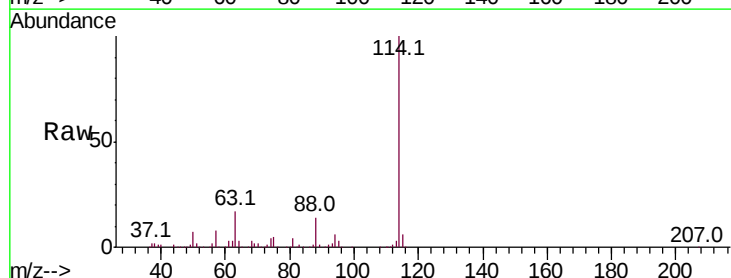
Tgt Ion: 114 Resp: 924741

Ion Ratio Lower Upper

114 100

63 17.3 0.0 38.4

88 14.2 0.0 31.2



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

8.87

600000

500000

400000

300000

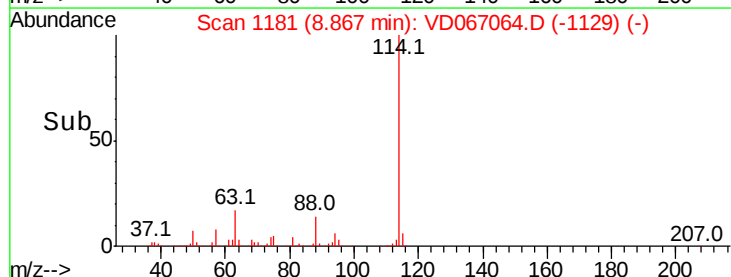
200000

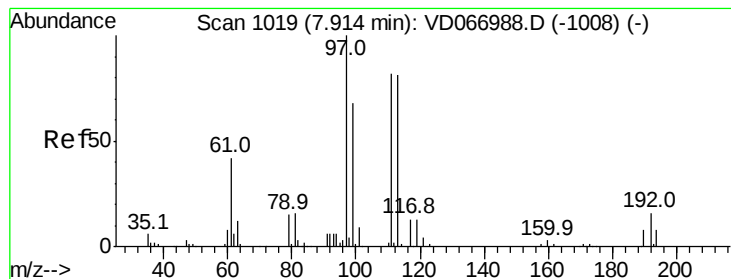
100000

0

8.80 8.90 9.00

Time-->





#35

Dibromofluoromethane

Concen: 48.249 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

B-20(12-14)

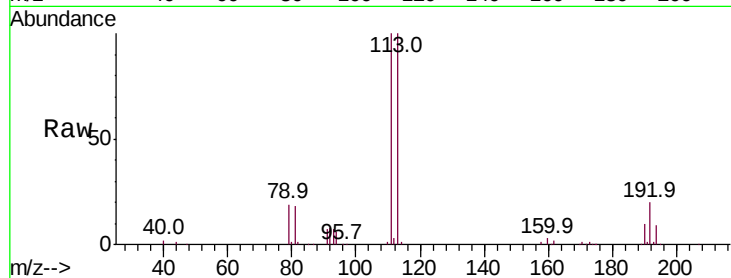
Tot Ion:113 Resp: 292107

Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.0	124.4
192	19.8	15.5	23.3

113 100

111 102.3 83.0 124.4

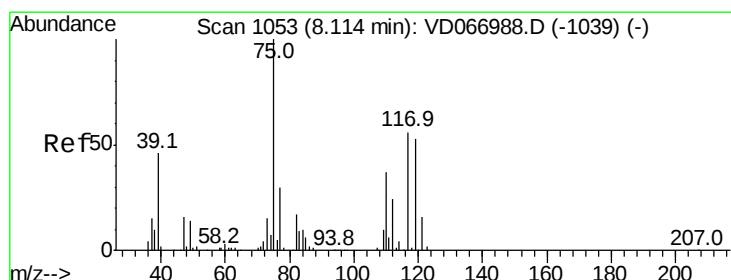
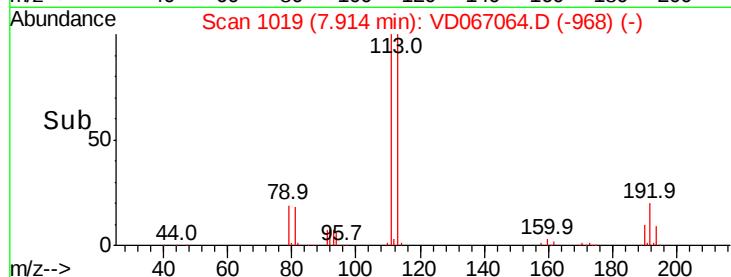
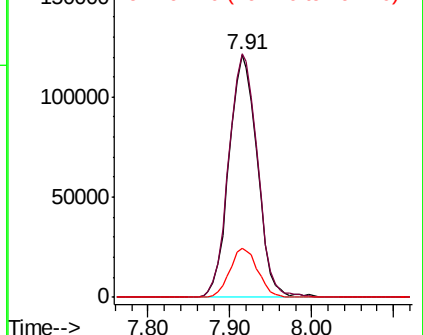
192 19.8 15.5 23.3



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: 4.884 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

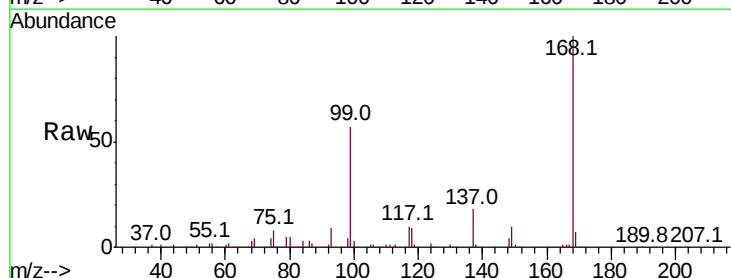
Tgt Ion: 75 Resp: 42095

Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.4	55.0#
77	0.0	24.8	37.2#

75 100

110 8.0 18.4 55.0#

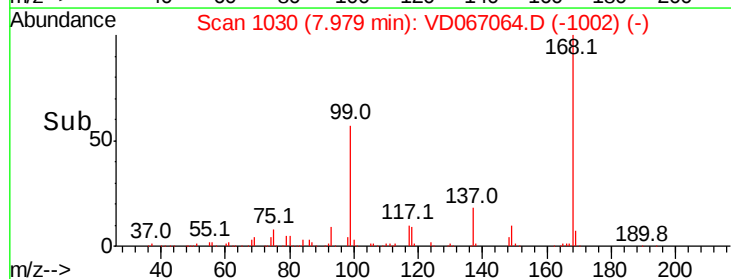
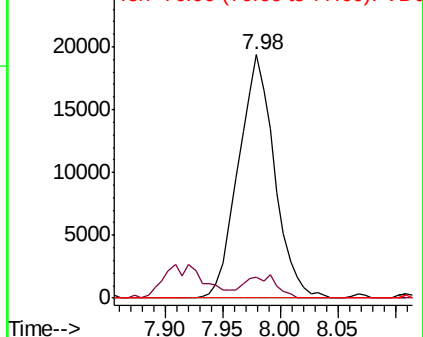
77 0.0 24.8 37.2#

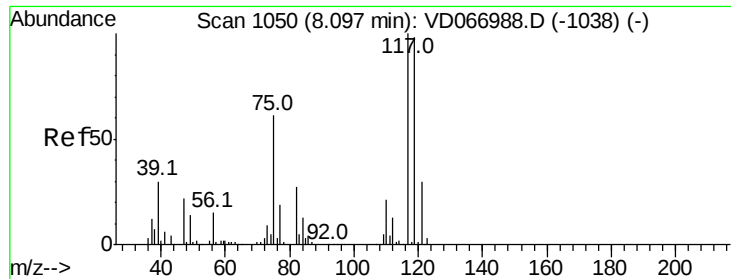


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.056 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

B-20(12-14)

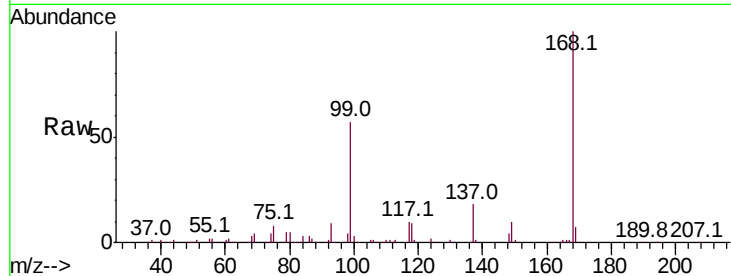
Tot Ion:117 Resp: 56478

Ion Ratio Lower Upper

117 100

119 5.7 78.7 118.1#

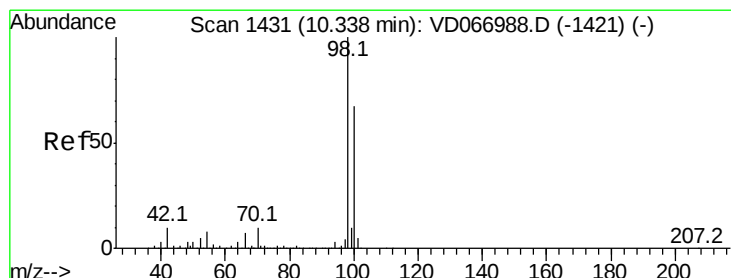
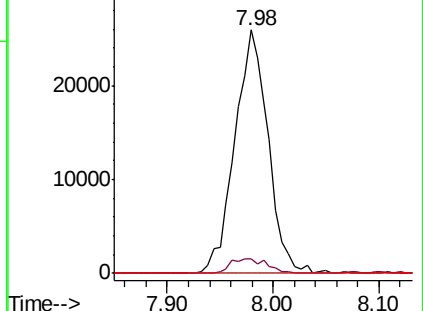
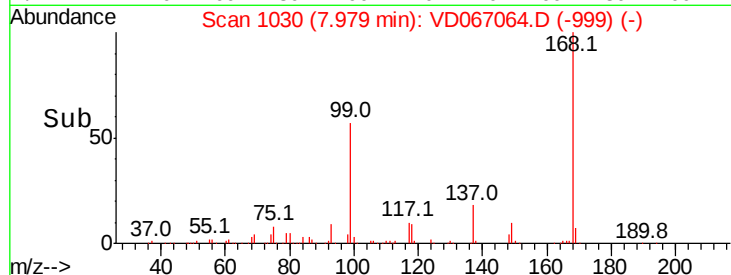
121 0.0 24.2 36.2#



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: 49.240 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067064.D

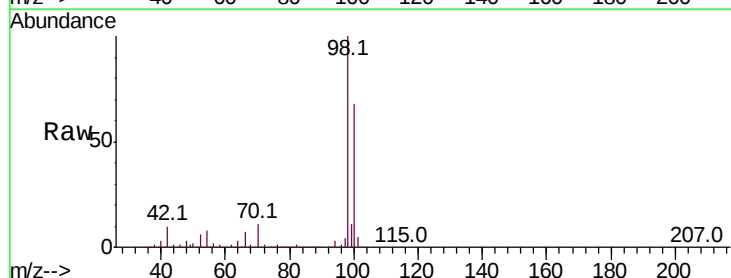
Acq: 03 Oct 2020 05:39

Tgt Ion: 98 Resp: 1086256

Ion Ratio Lower Upper

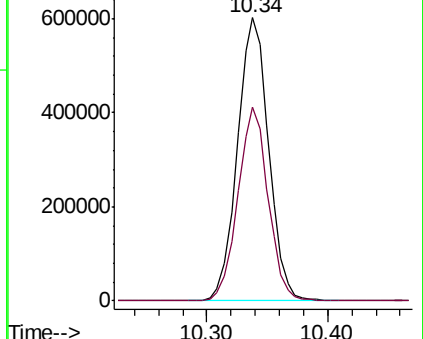
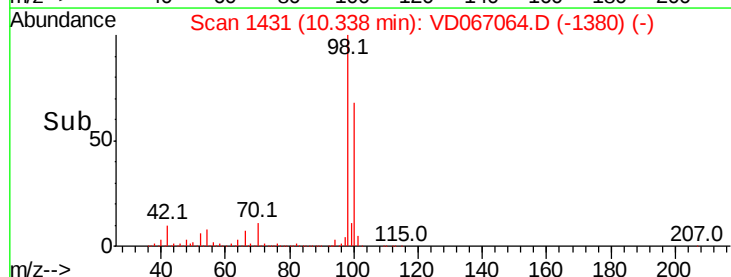
98 100

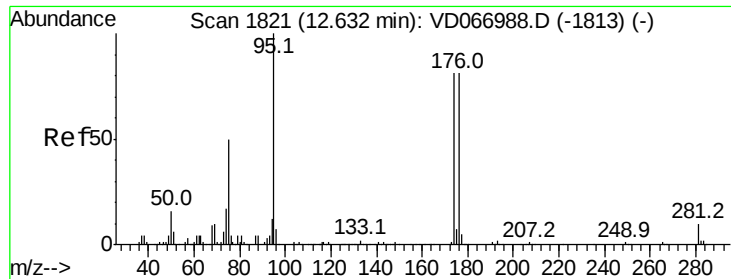
100 66.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 48.486 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleID :

B-20(12-14)

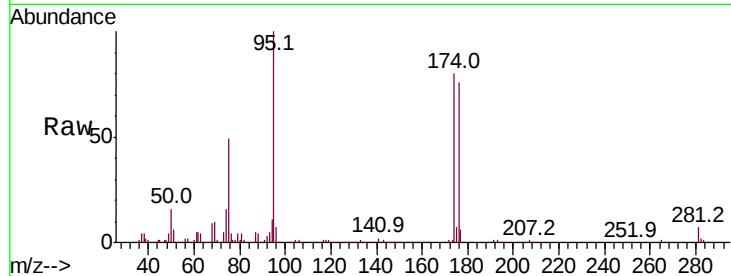
Tot Ion: 95 Resp: 363111

Ion Ratio Lower Upper

95 100

174 81.9 0.0 167.6

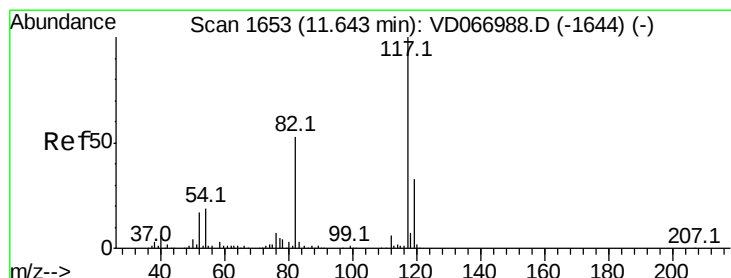
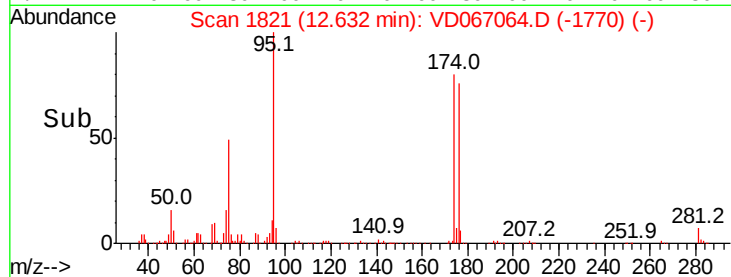
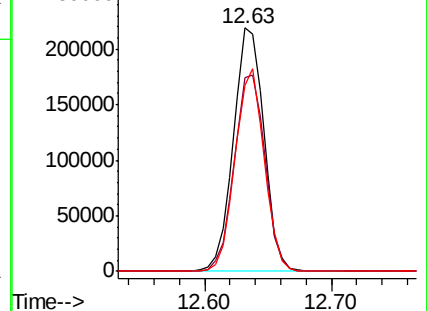
176 79.2 0.0 162.4



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: VD067064.D

Acq: 03 Oct 2020 05:39

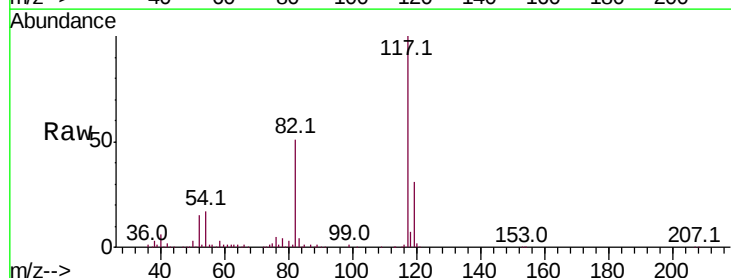
Tgt Ion: 117 Resp: 850835

Ion Ratio Lower Upper

117 100

82 51.0 42.6 63.8

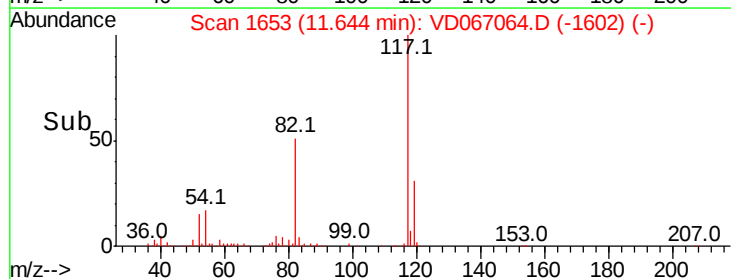
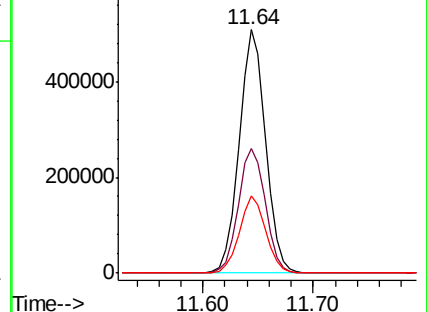
119 31.5 26.3 39.5

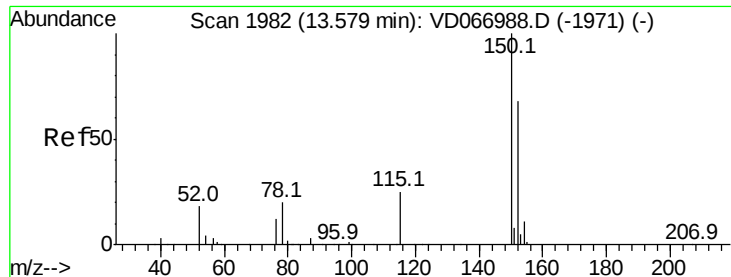


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

B-20(12-14)

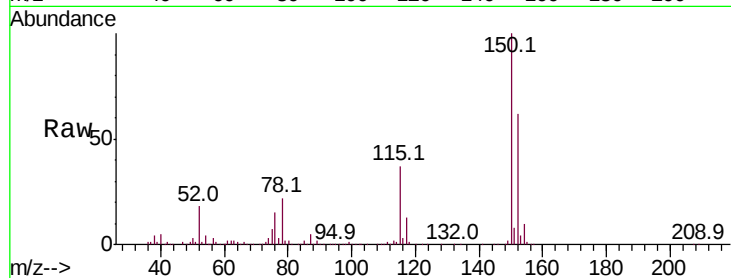
Tot Ion:152 Resp: 385685

Ion Ratio Lower Upper

152 100

115 59.5 29.6 88.8

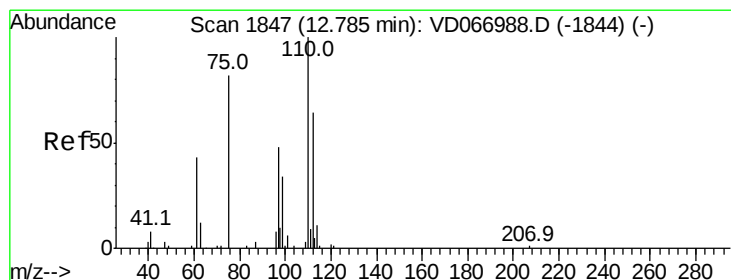
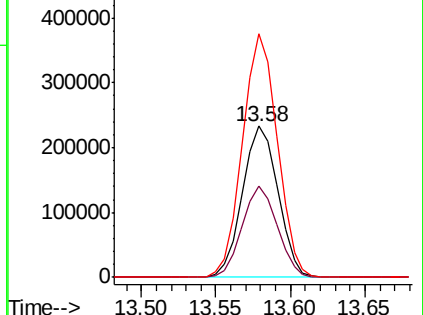
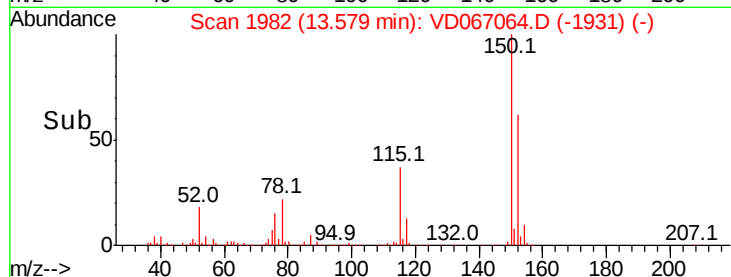
150 157.4 0.0 344.8



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: 52.265 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067064.D

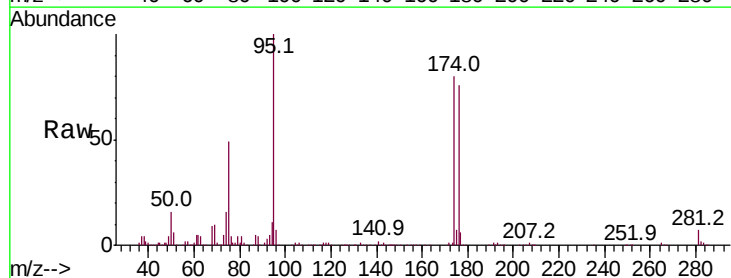
Acq: 03 Oct 2020 05:39

Tgt Ion: 75 Resp: 175581

Ion Ratio Lower Upper

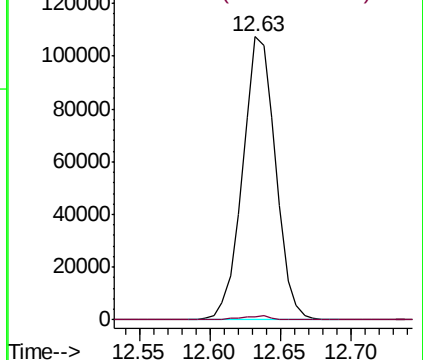
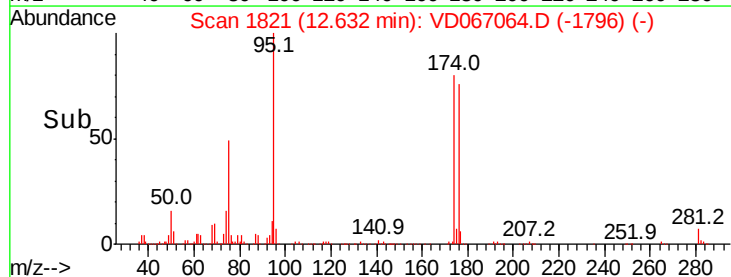
75 100

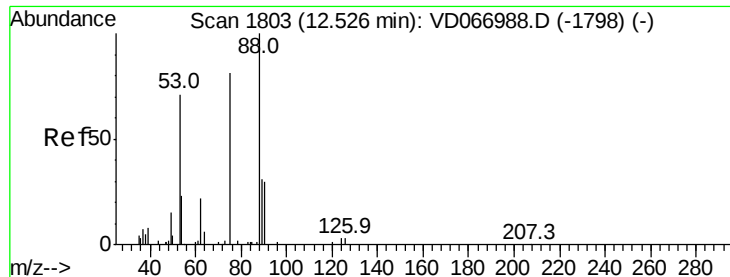
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 130.303 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

Instrument :

MSVOA_D

ClientSampleId :

B-20(12-14)

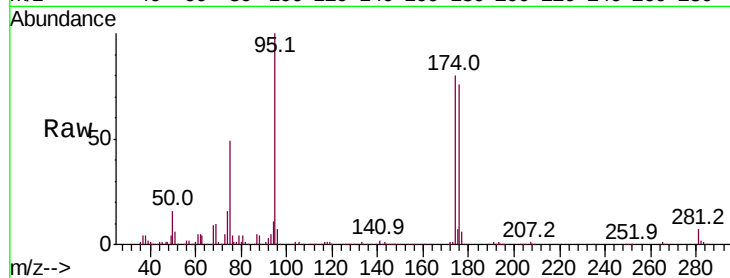
Tot Ion: 75 Resp: 175581

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

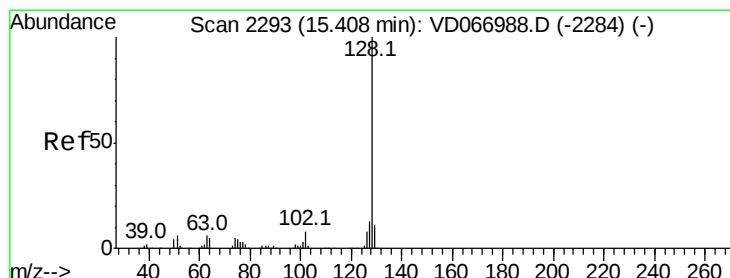
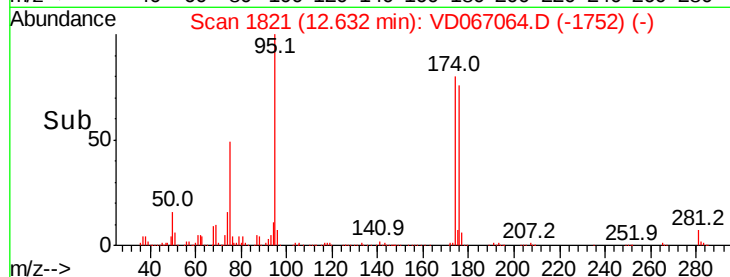
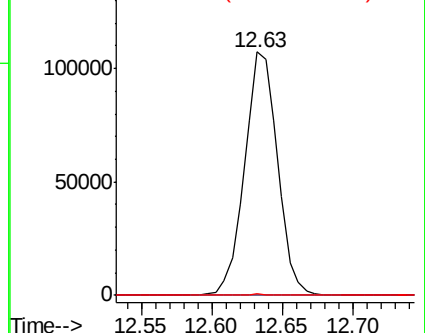
89 0.3 38.9 58.3#



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



#95

Naphthalene

Concen: 3.516 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD067064.D

Acq: 03 Oct 2020 05:39

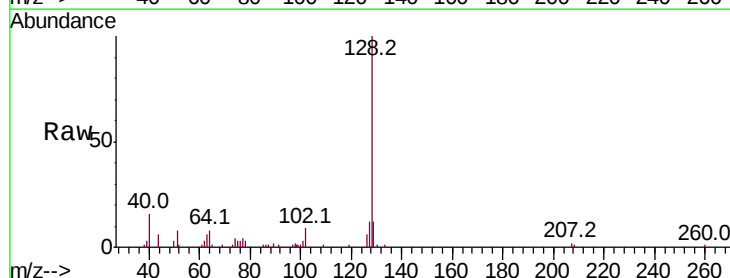
Tgt Ion:128 Resp: 40801

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

