

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101920\
 Data File : VD067307.D
 Acq On : 19 Oct 2020 14:24
 Operator : VA/SY
 Sample : L4434-01
 Misc : 5.05G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 40978-S

Quant Time: Oct 20 01:40:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	336488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	551707	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	493149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	209353	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	162477	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
35) Dibromofluoromethane	7.92	113	171300	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
50) Toluene-d8	10.34	98	627351	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	12.64	95	206341	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	

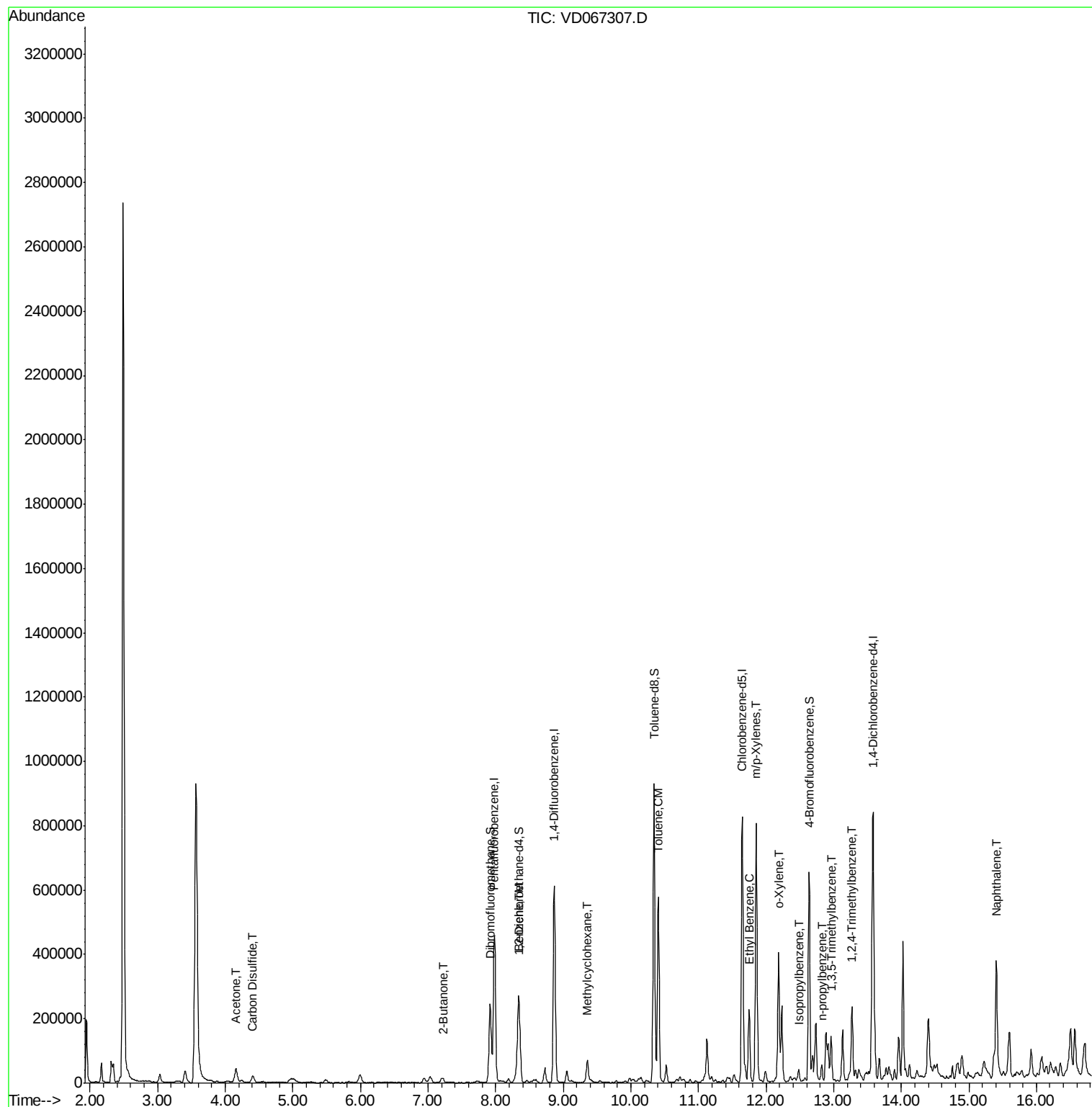
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.16	43	75888	160.738	ug/l	100
17) Carbon Disulfide	4.41	76	43437	5.487	ug/l	98
25) 2-Butanone	7.23	43	11315	21.025	ug/l	97
39) Methylcyclohexane	9.36	83	29027	5.938	ug/l	94
40) Benzene	8.35	78	137657	10.731	ug/l	96
52) Toluene	10.41	92	255262	29.215	ug/l	100
67) Ethyl Benzene	11.75	91	156912	9.680	ug/l	97
68) m/p-Xylenes	11.86	106	244565	39.178	ug/l	99
69) o-Xylene	12.18	106	106219	18.375	ug/l	96
73) Isopropylbenzene	12.48	105	20502	1.543	ug/l	99
78) n-propylbenzene	12.83	91	39958	2.596	ug/l	96
80) 1,3,5-Trimethylbenzene	12.97	105	63763	5.522	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	122011	10.691	ug/l	98
95) Naphthalene	15.41	128	322076	52.237	ug/l	98

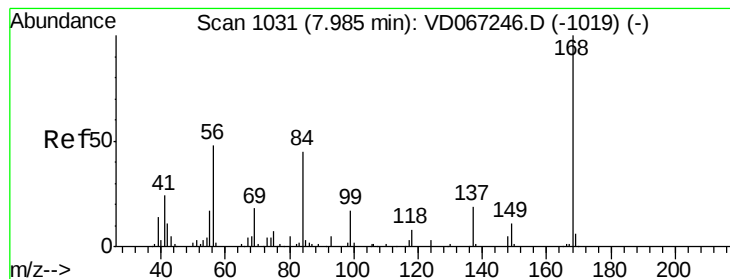
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

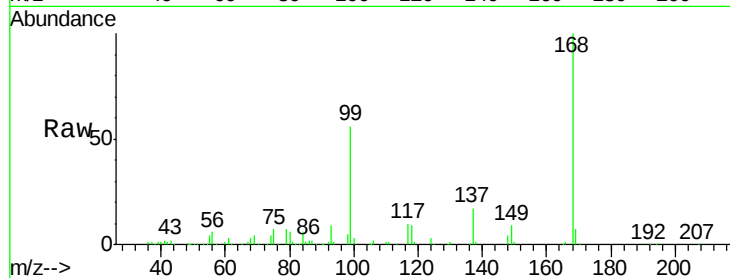
40978-S

Tot Ion:168 Resp: 336488

Ion Ratio Lower Upper

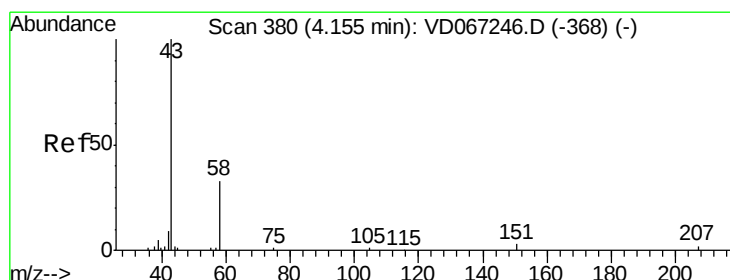
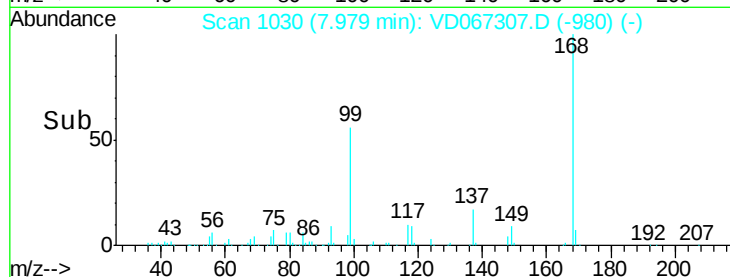
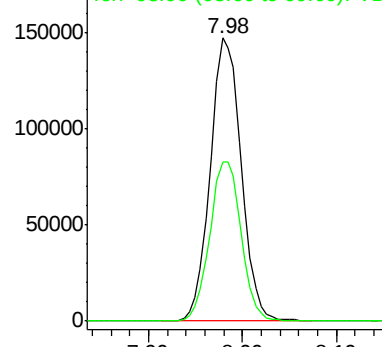
168 100

99 55.9 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 160.738 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067307.D

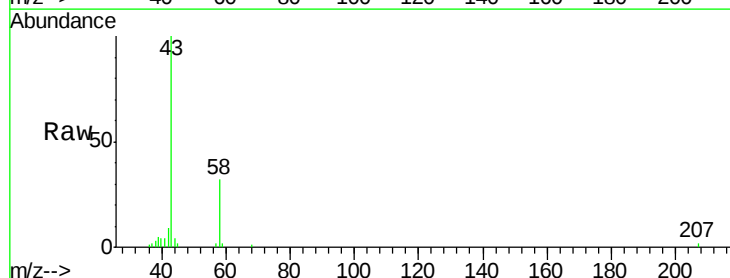
Acq: 19 Oct 2020 14:24

Tgt Ion: 43 Resp: 75888

Ion Ratio Lower Upper

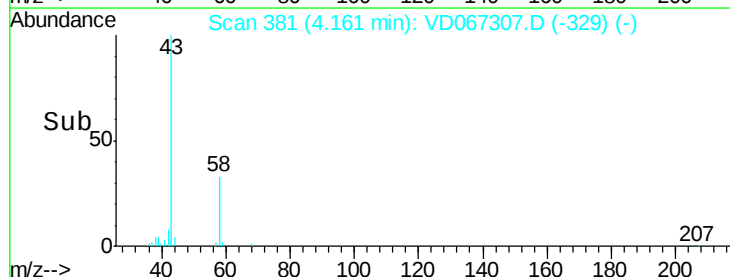
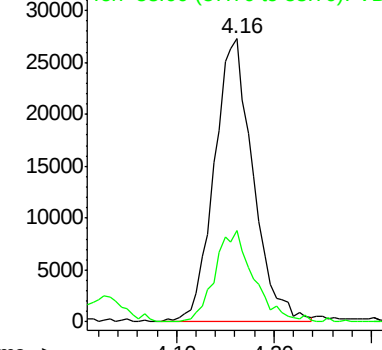
43 100

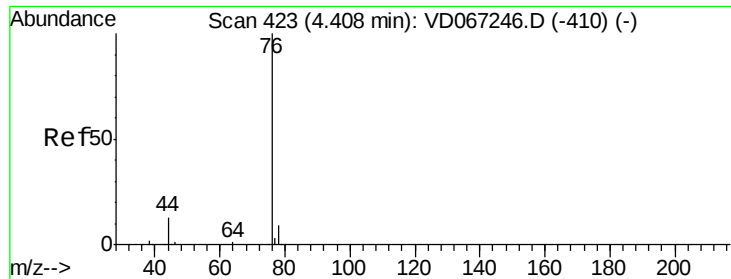
58 32.4 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 5.487 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

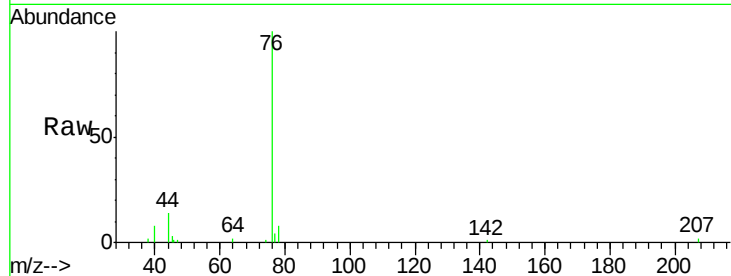
40978-S

Tot Ion: 76 Resp: 43437

Ion Ratio Lower Upper

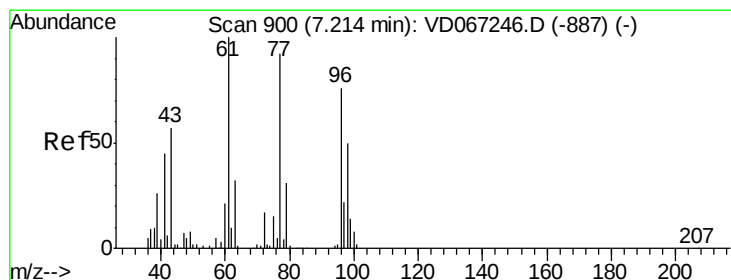
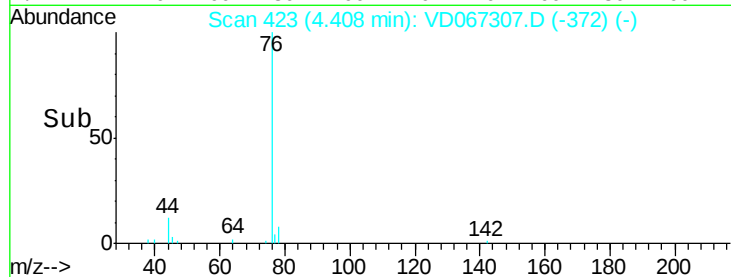
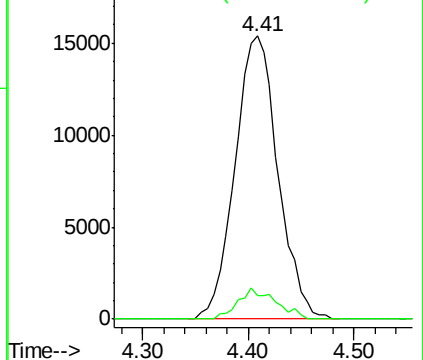
76 100

78 8.5 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#25

2-Butanone

Concen: 21.025 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD067307.D

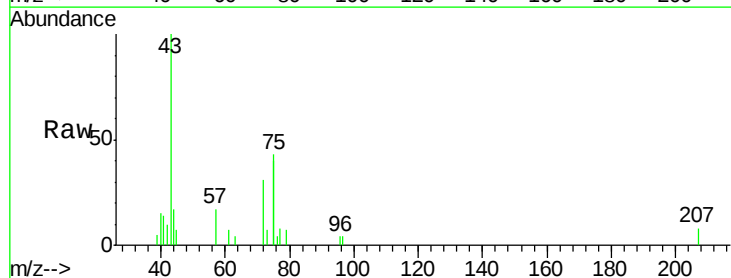
Acq: 19 Oct 2020 14:24

Tgt Ion: 43 Resp: 11315

Ion Ratio Lower Upper

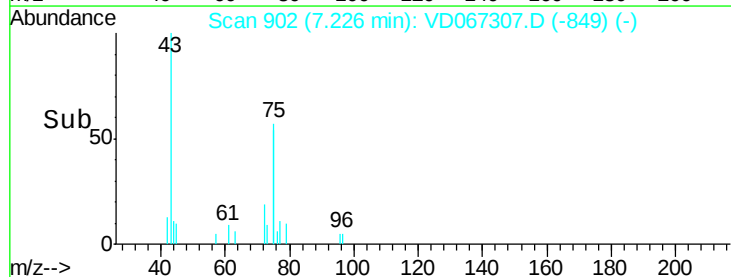
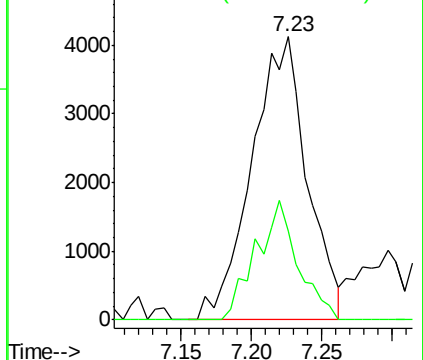
43 100

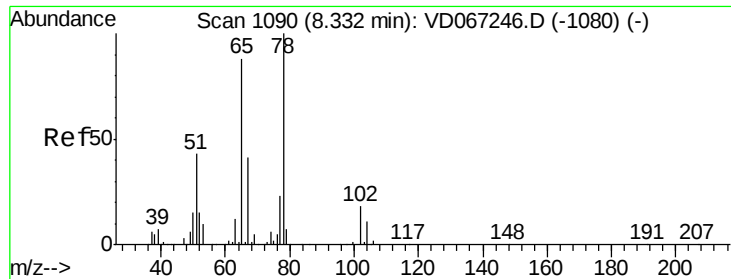
72 31.1 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 48.197 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

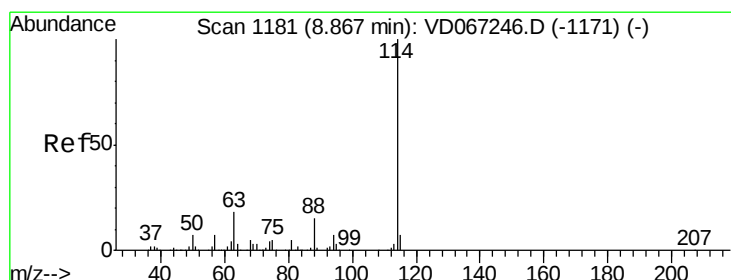
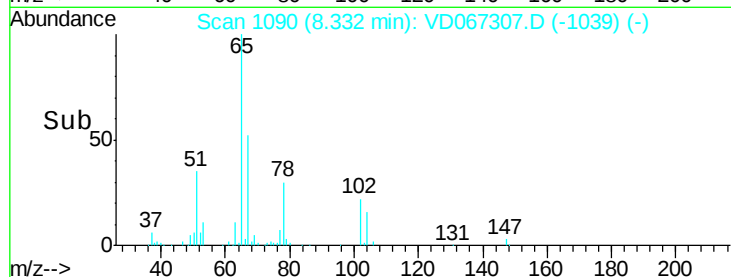
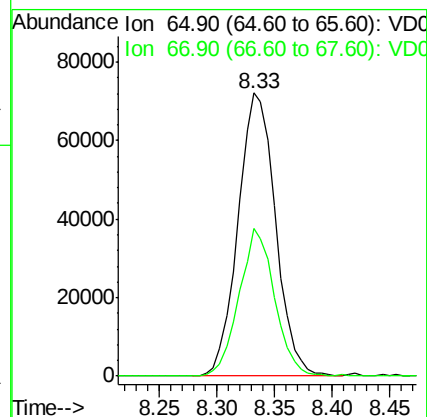
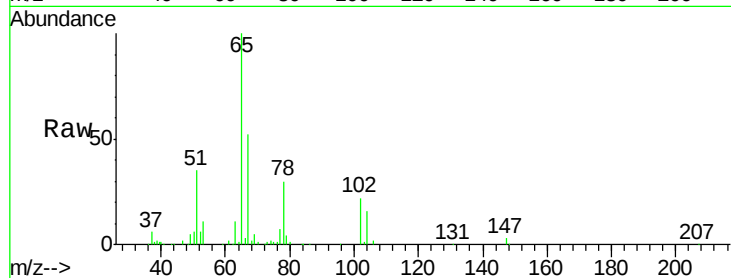
40978-S

Tot Ion: 65 Resp: 162477

Ion Ratio Lower Upper

65 100

67 49.4 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

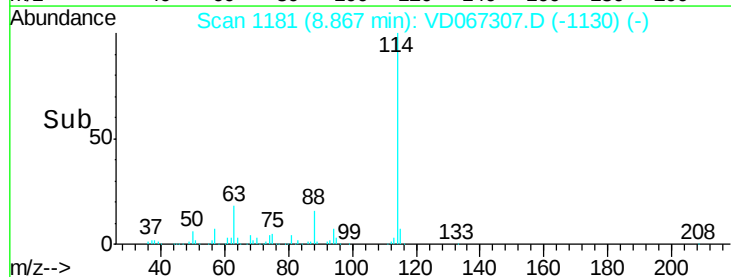
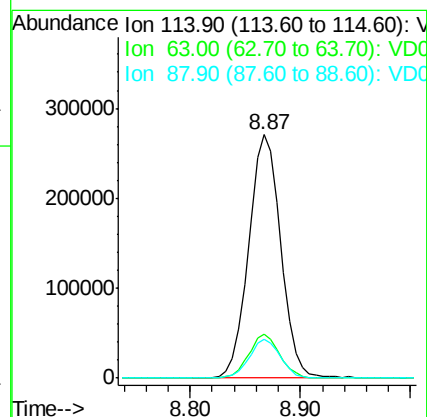
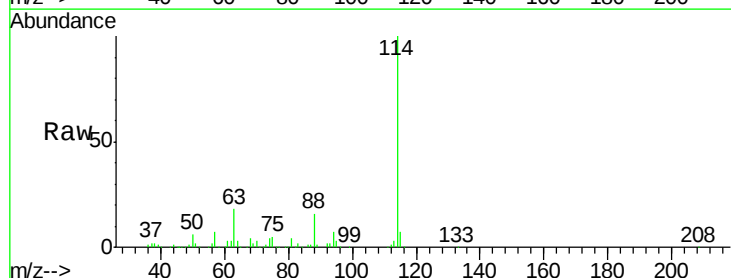
Tgt Ion: 114 Resp: 551707

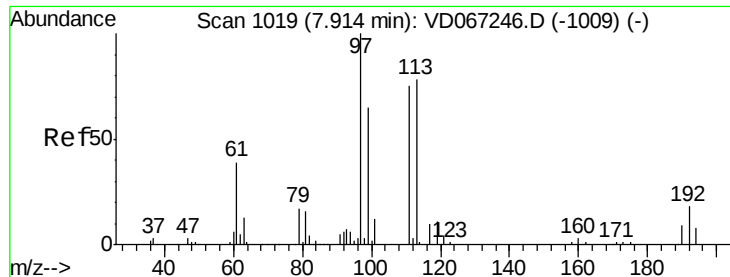
Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.0

88 16.0 0.0 30.6

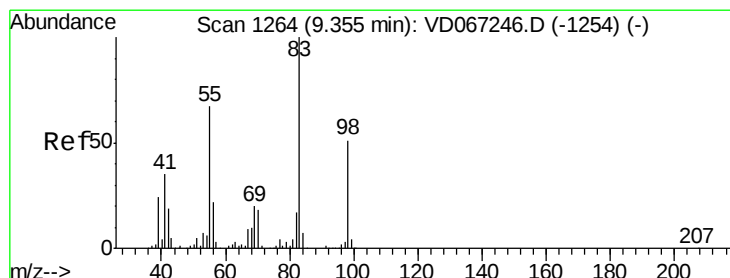
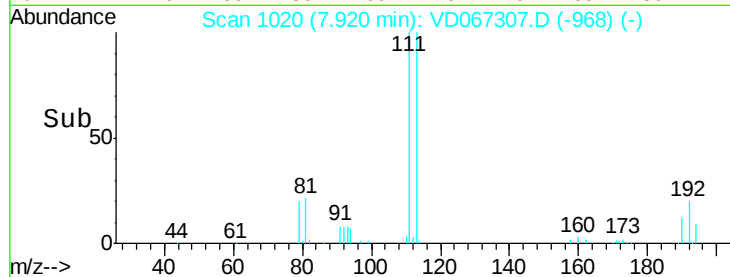
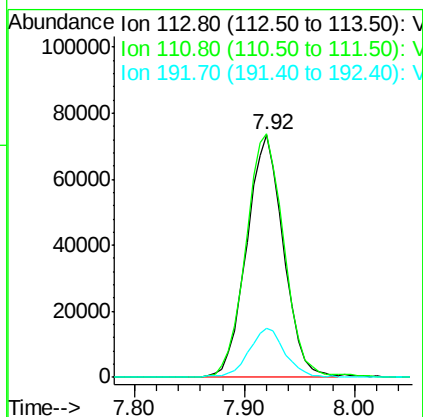
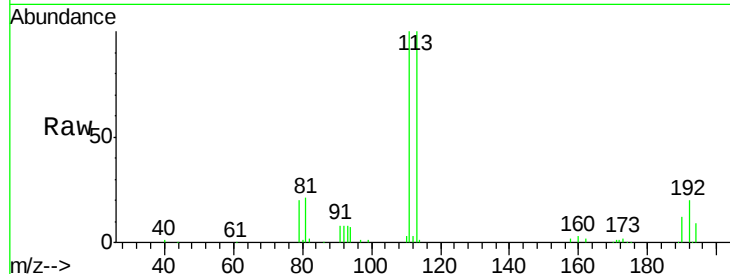




#35
 Dibromofluoromethane
 Concen: 46.655 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067307.D
 Acq: 19 Oct 2020 14:24

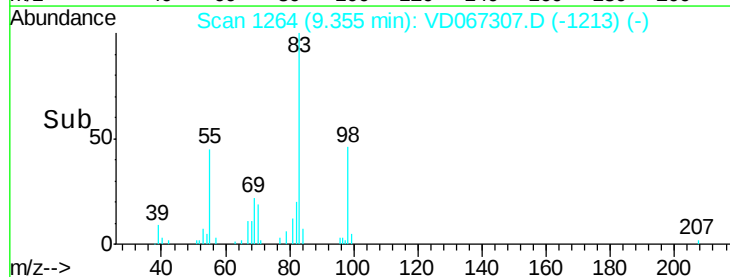
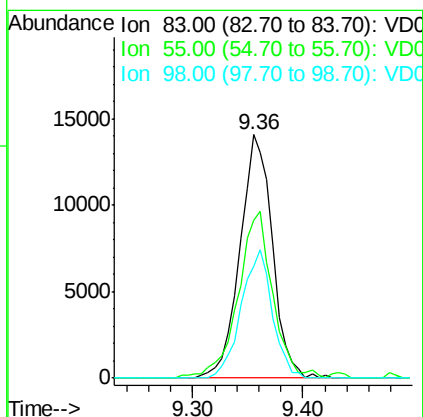
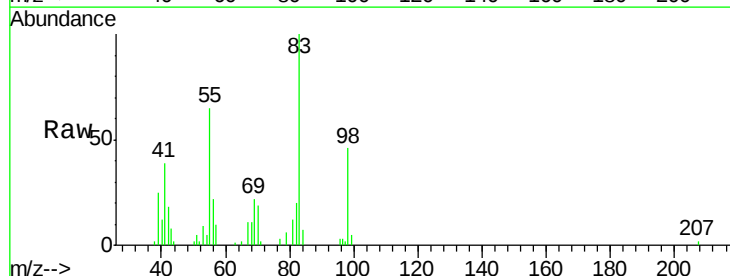
Instrument :
 MSVOA_D
 ClientSampleId :
 40978-S

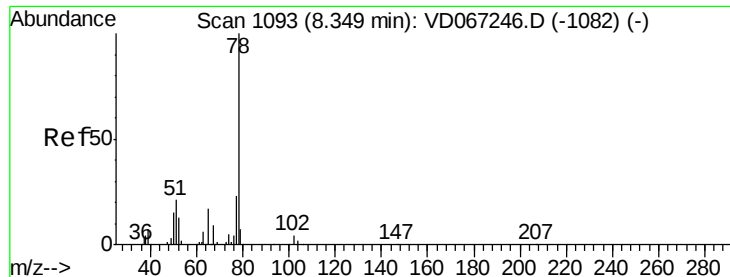
Tot Ion:113 Resp: 171300
 Ion Ratio Lower Upper
 113 100
 111 103.6 81.6 122.4
 192 20.1 17.0 25.4



#39
 Methylcyclohexane
 Concen: 5.938 ug/l
 RT: 9.36 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VD067307.D
 Acq: 19 Oct 2020 14:24

Tgt Ion: 83 Resp: 29027
 Ion Ratio Lower Upper
 83 100
 55 63.4 53.3 79.9
 98 46.0 41.0 61.4





#40

Benzene

Concen: 10.731 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

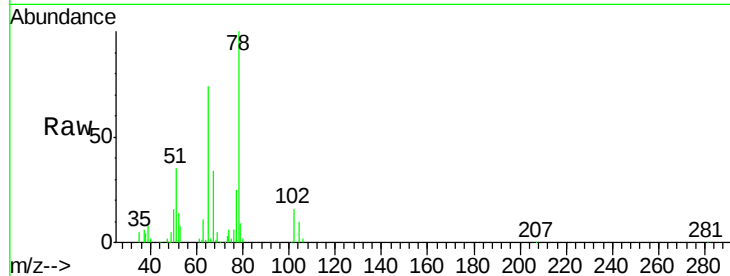
40978-S

Tot Ion: 78 Resp: 137657

Ion Ratio Lower Upper

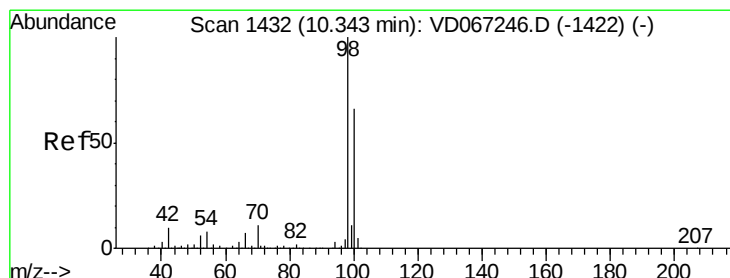
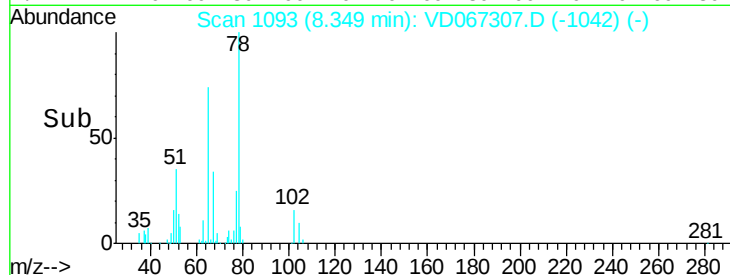
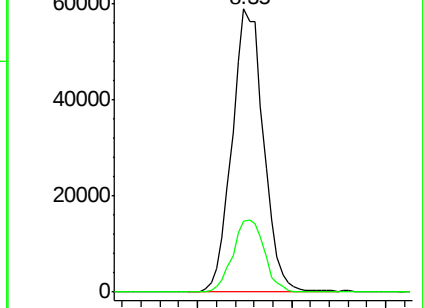
78 100

77 25.0 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC



#50

Toluene-d8

Concen: 47.214 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067307.D

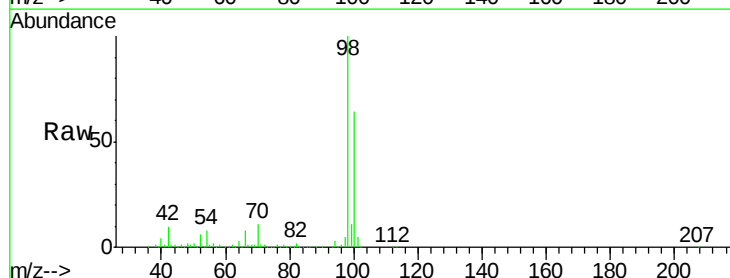
Acq: 19 Oct 2020 14:24

Tgt Ion: 98 Resp: 627351

Ion Ratio Lower Upper

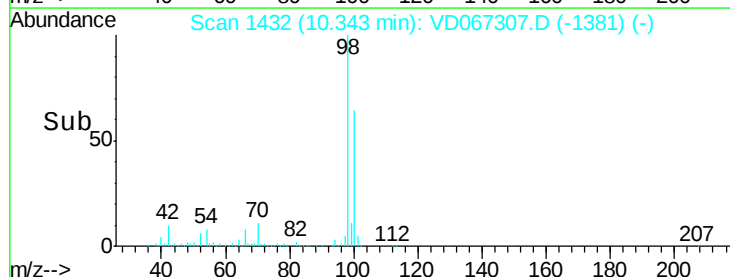
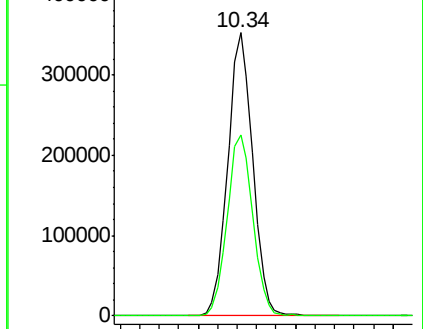
98 100

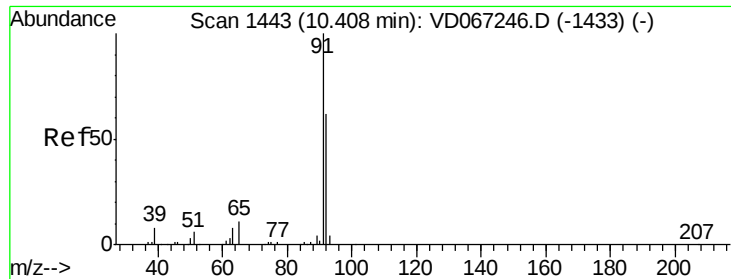
100 65.6 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#52

Toluene

Concen: 29.215 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

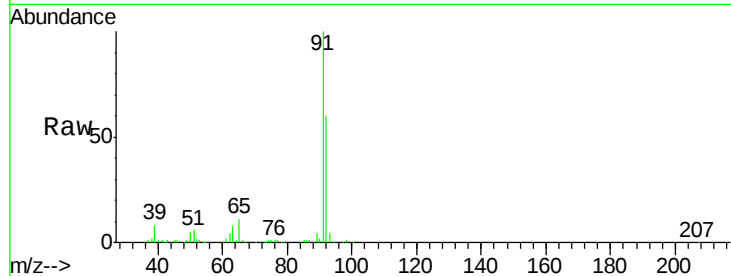
40978-S

Tot Ion: 92 Resp: 255262

Ion Ratio Lower Upper

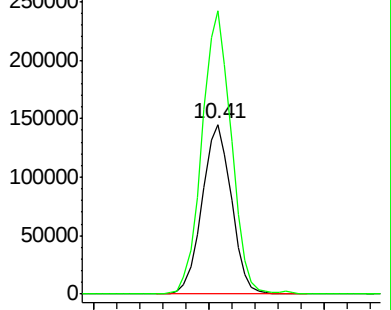
92 100

91 167.5 133.8 200.8

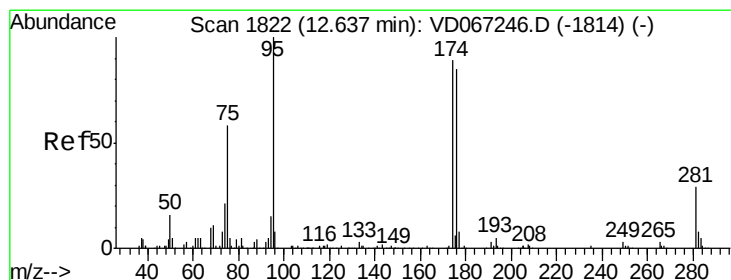
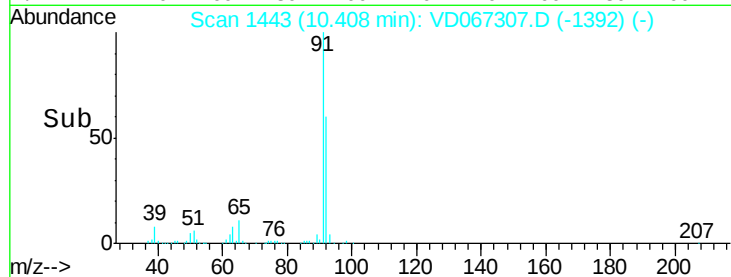


Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



Time--> 10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: 44.660 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

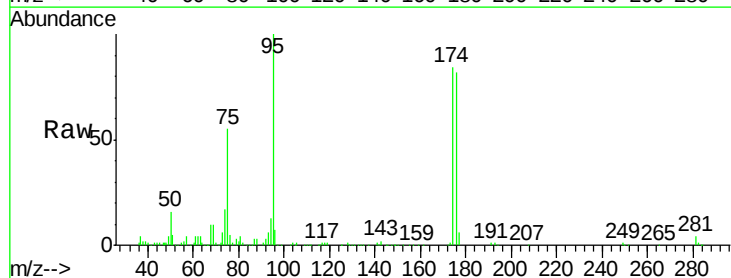
Tgt Ion: 95 Resp: 206341

Ion Ratio Lower Upper

95 100

174 87.9 0.0 175.2

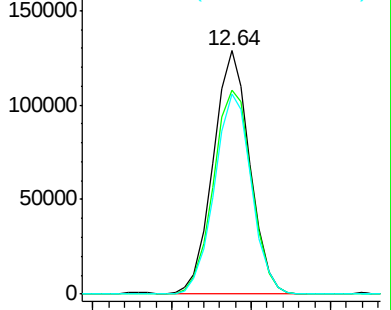
176 82.9 0.0 168.6



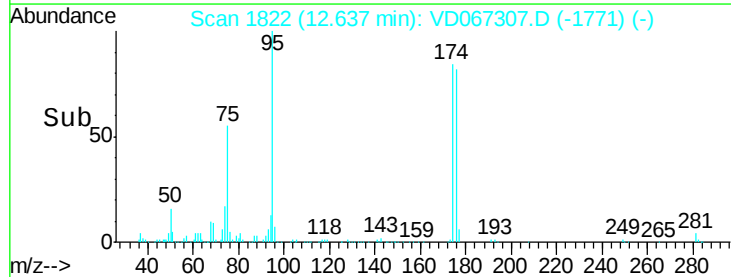
Abundance Ion 94.90 (94.60 to 95.60): VDC

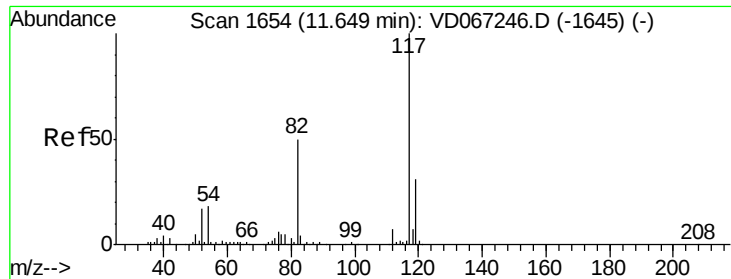
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time--> 12.55 12.60 12.65 12.70

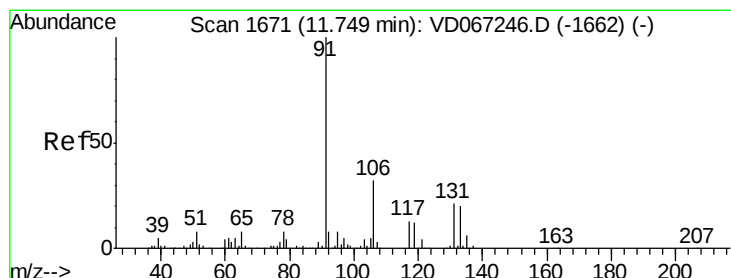
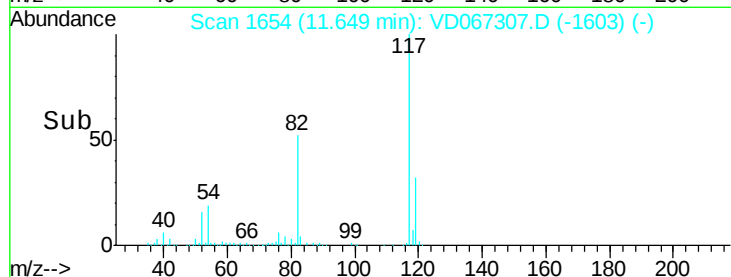
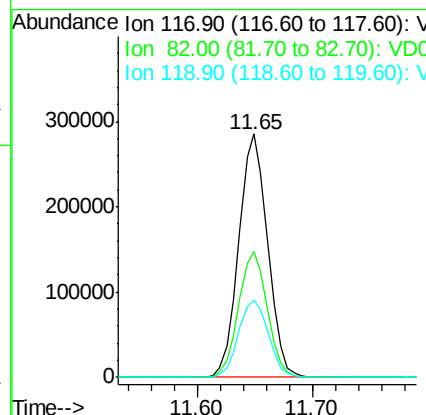
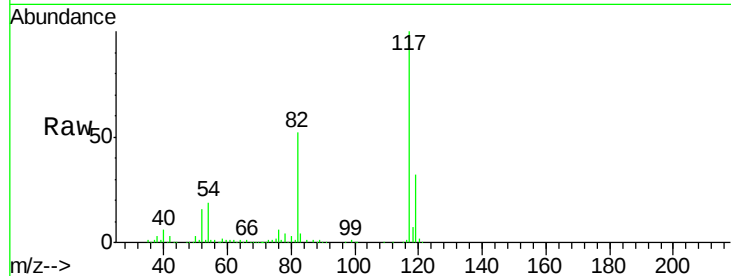




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067307.D
Acq: 19 Oct 2020 14:24

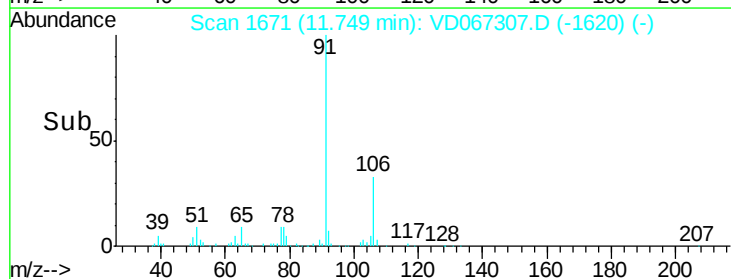
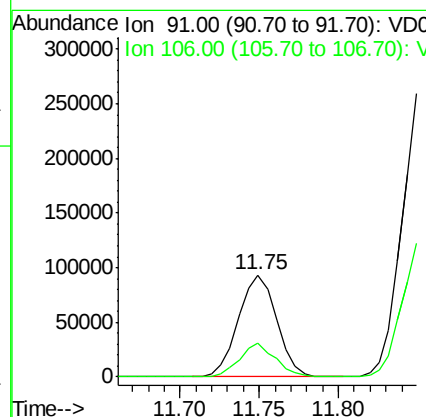
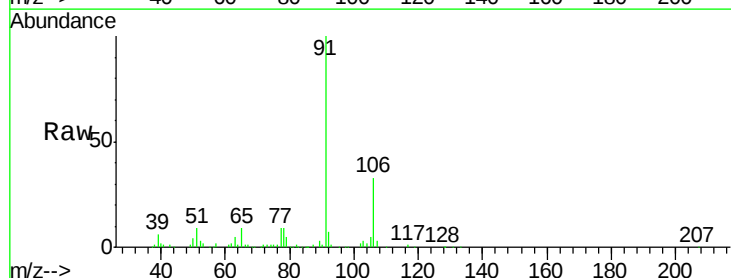
Instrument :
MSVOA_D
ClientSampleId :
40978-S

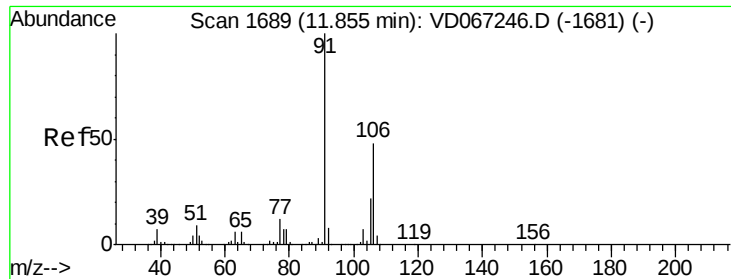
Tot Ion:117 Resp: 493149
Ion Ratio Lower Upper
117 100
82 51.7 39.9 59.9
119 31.8 24.9 37.3



#67
Ethyl Benzene
Concen: 9.680 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD067307.D
Acq: 19 Oct 2020 14:24

Tgt Ion: 91 Resp: 156912
Ion Ratio Lower Upper
91 100
106 33.4 25.4 38.0

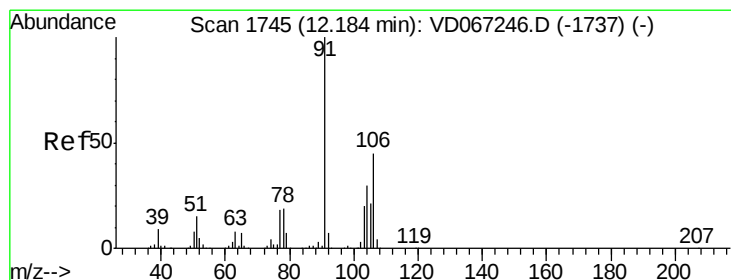
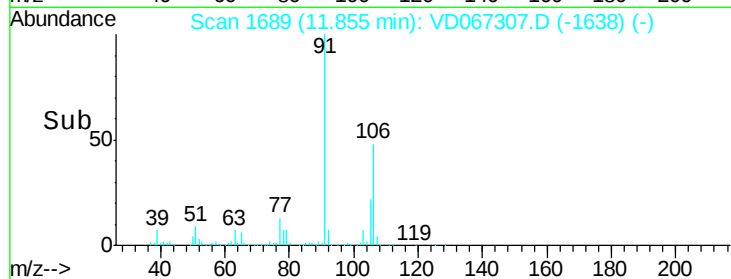
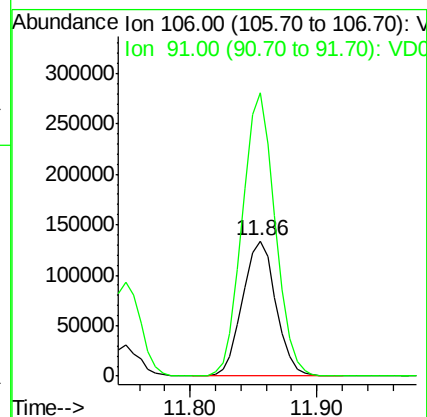
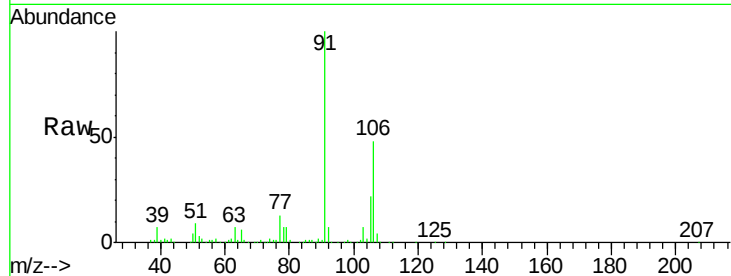




#68
m/p-Xylenes
Concen: 39.178 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD067307.D
Acq: 19 Oct 2020 14:24

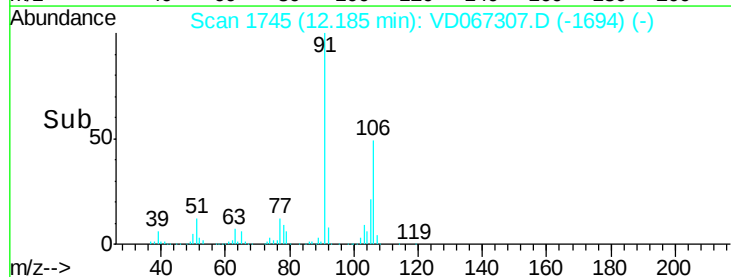
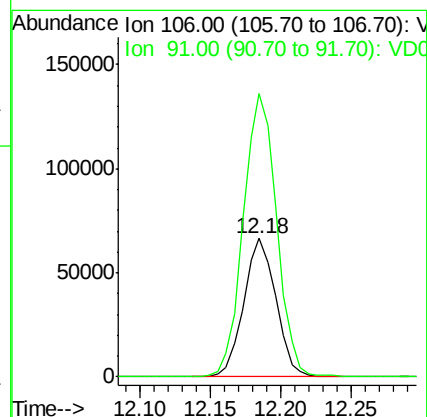
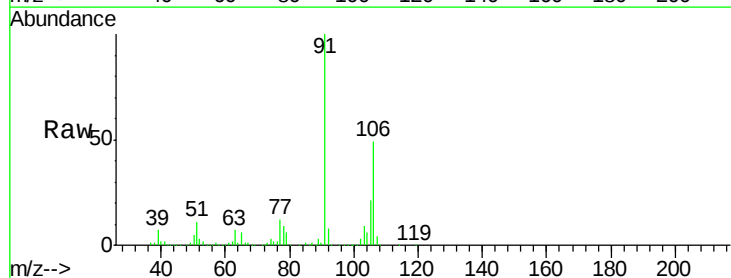
Instrument :
MSVOA_D
ClientSampleId :
40978-S

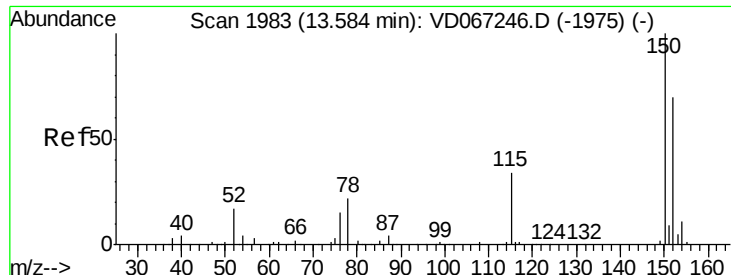
Tot Ion:106 Resp: 244565
Ion Ratio Lower Upper
106 100
91 206.0 163.8 245.8



#69
o-Xylene
Concen: 18.375 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD067307.D
Acq: 19 Oct 2020 14:24

Tgt Ion:106 Resp: 106219
Ion Ratio Lower Upper
106 100
91 211.8 109.1 327.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

40978-S

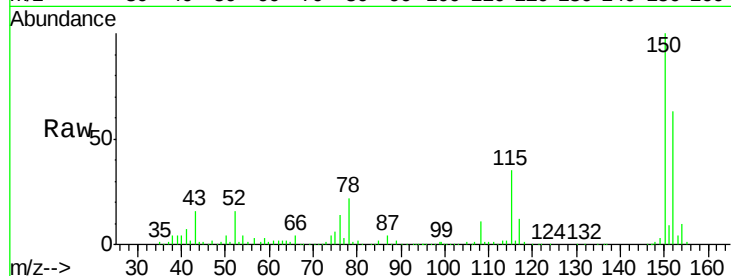
Tot Ion:152 Resp: 209353

Ion Ratio Lower Upper

152 100

115 59.3 29.3 87.9

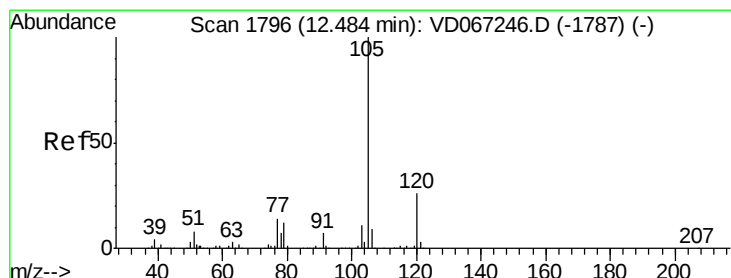
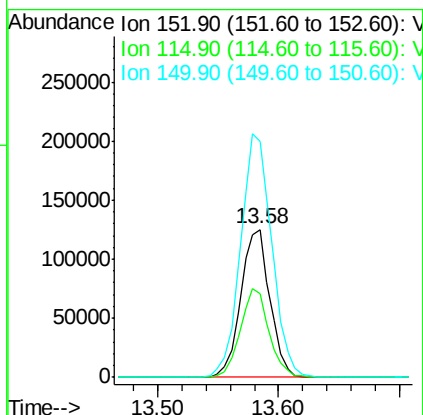
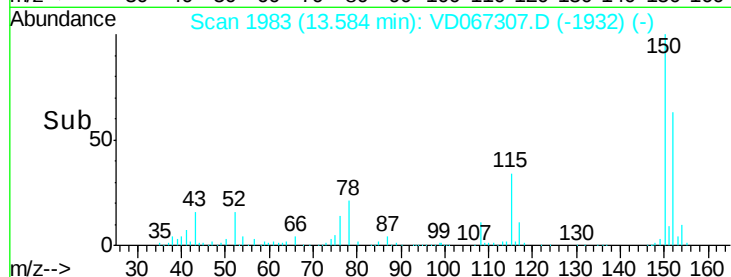
150 177.5 0.0 339.0



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



#73

Isopropylbenzene

Concen: 1.543 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD067307.D

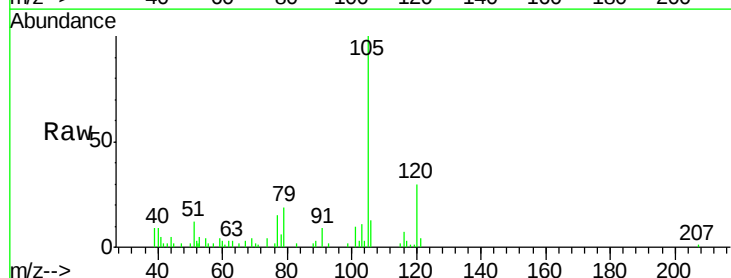
Acq: 19 Oct 2020 14:24

Tgt Ion:105 Resp: 20502

Ion Ratio Lower Upper

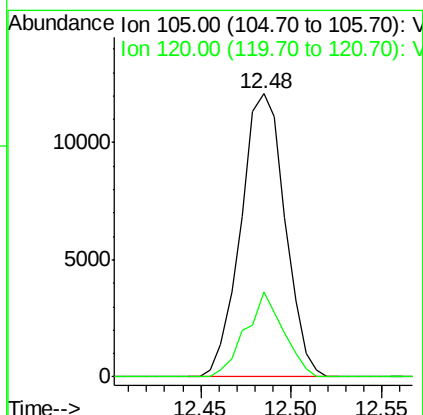
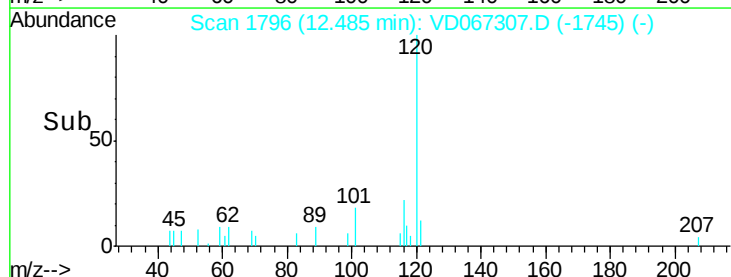
105 100

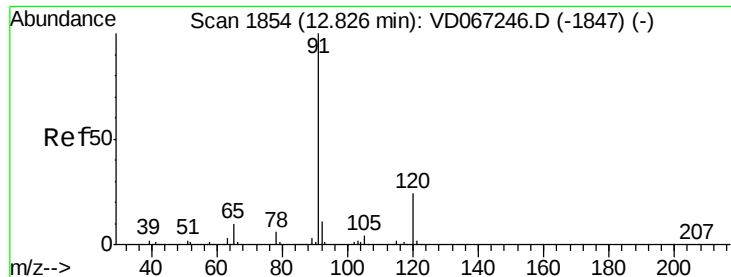
120 25.8 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 2.596 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD067307.D

Acq: 19 Oct 2020 14:24

Instrument :

MSVOA_D

ClientSampleId :

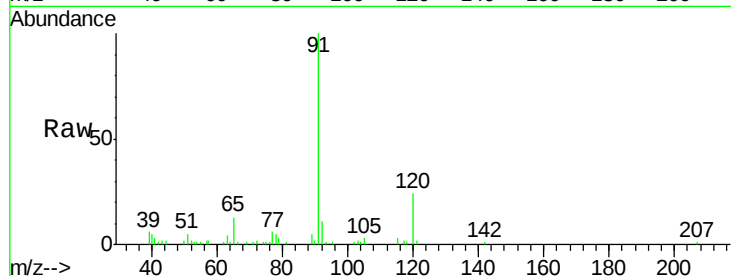
40978-S

Tot Ion: 91 Resp: 39958

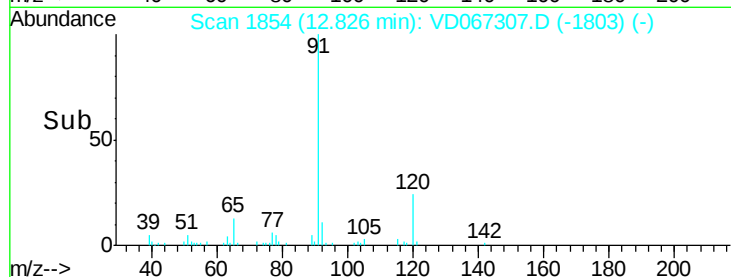
Ion Ratio Lower Upper

91 100

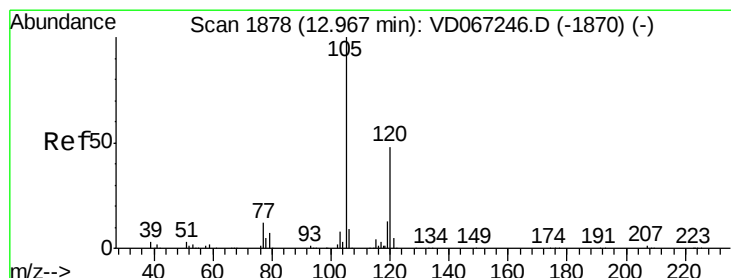
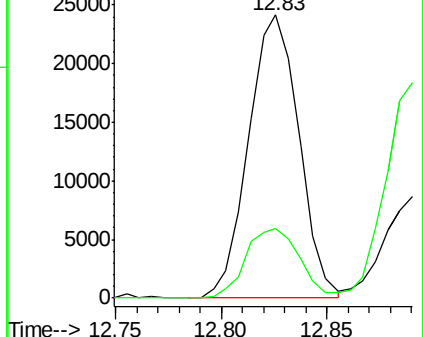
120 26.0 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VD067307.D (-1803) (-)



Ion 120.00 (119.70 to 120.70): VD067307.D (-1803) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.522 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD067307.D

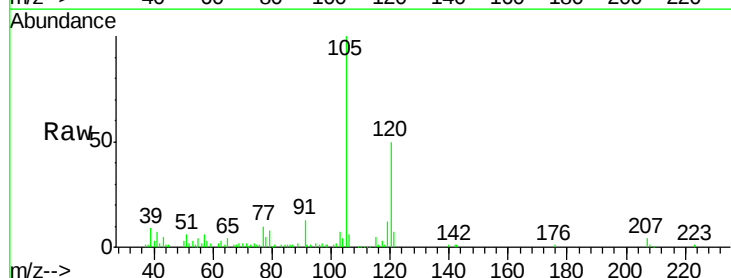
Acq: 19 Oct 2020 14:24

Tgt Ion: 105 Resp: 63763

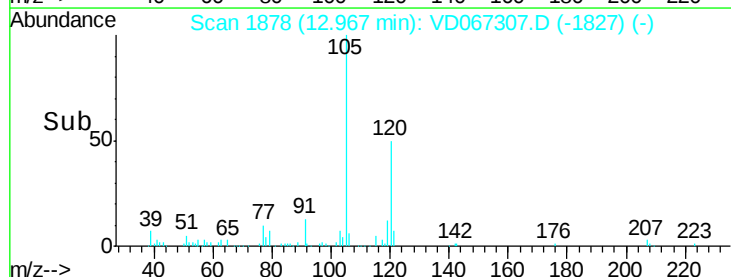
Ion Ratio Lower Upper

105 100

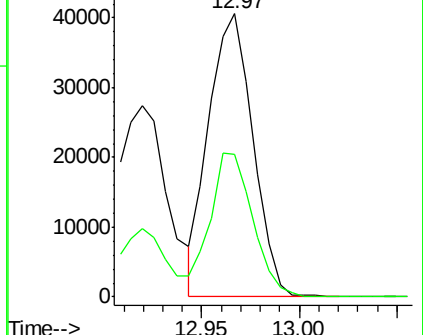
120 48.8 24.3 72.8

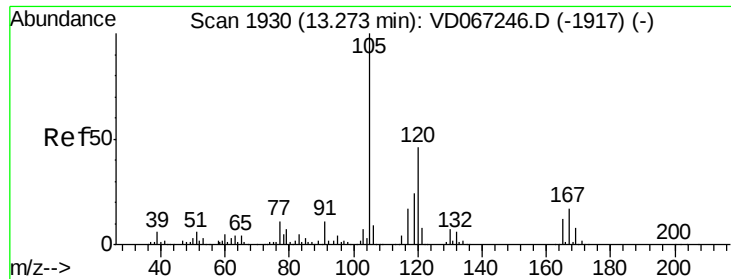


Abundance Ion 105.00 (104.70 to 105.70): VD067307.D (-1827) (-)



Ion 120.00 (119.70 to 120.70): VD067307.D (-1827) (-)

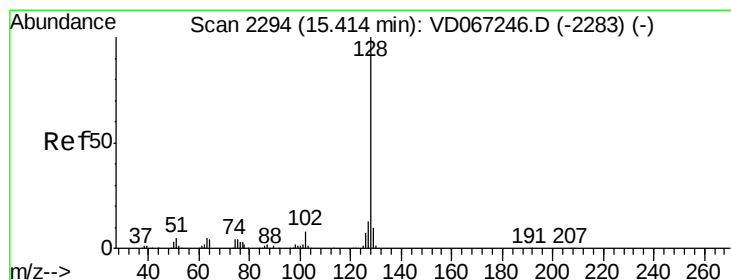
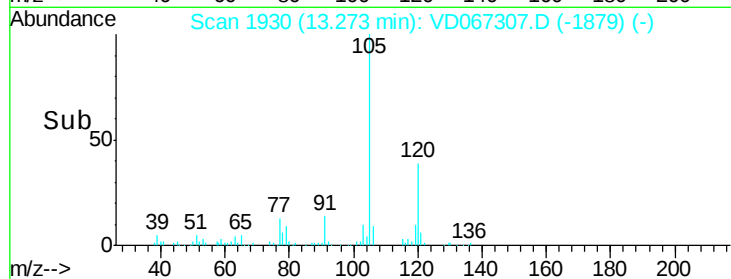
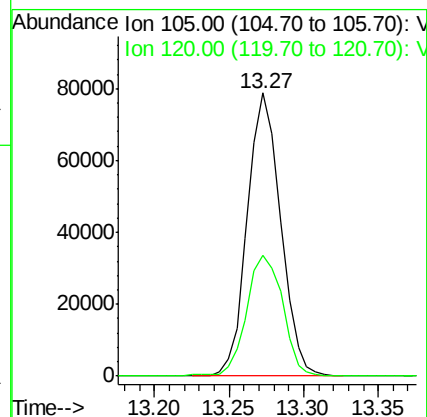
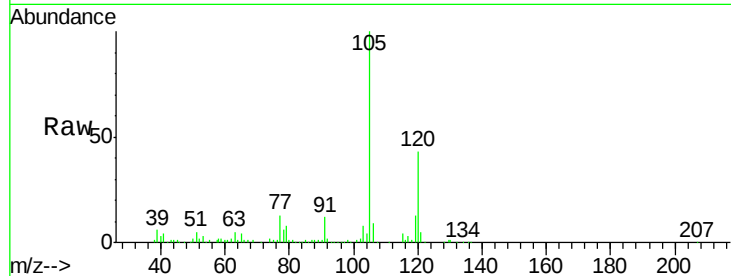




#84
 1,2,4-Trimethylbenzene
 Concen: 10.691 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD067307.D
 Acq: 19 Oct 2020 14:24

Instrument :
 MSVOA_D
 ClientSampleId :
 40978-S

Tot Ion:105 Resp: 122011
 Ion Ratio Lower Upper
 105 100
 120 46.5 22.4 67.3



#95
 Naphthalene
 Concen: 52.237 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. -0.01 min
 Lab File: VD067307.D
 Acq: 19 Oct 2020 14:24

Tgt Ion:128 Resp: 322076
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.4 15.6
 129 11.9 8.6 12.8

