

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092220\
 Data File : VD066820.D
 Acq On : 22 Sep 2020 19:30
 Operator : VA/SY
 Sample : L4100-01
 Misc : 6.29G/5.00ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 024

Quant Time: Sep 23 02:10:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	393683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	742297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	760840	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	349648	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	241658	62.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.44%	
35) Dibromofluoromethane	7.91	113	232855	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
50) Toluene-d8	10.33	98	933866	58.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.08%	
62) 4-Bromofluorobenzene	12.63	95	339778	61.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.36%	

Target Compounds

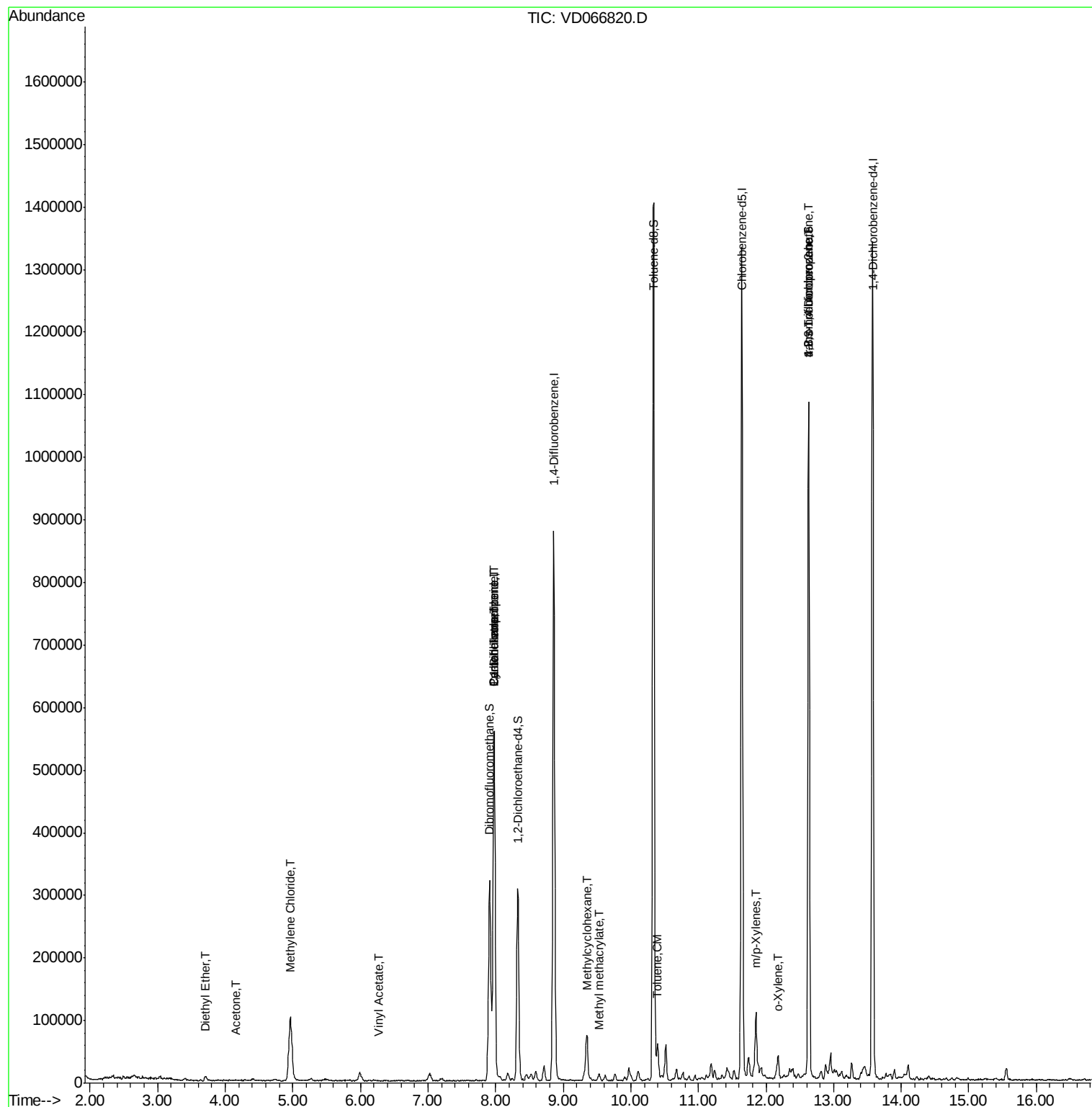
					Qvalue	
2) Dichlorodifluoromethane	1.97	85	70	Below Cal	#	46
8) Diethyl Ether	3.71	74	3644	1.956	ug/l	92
11) Tert butyl alcohol	5.22	59	604	Below Cal		99
16) Acetone	4.16	43	1960	2.398	ug/l #	43
18) Methyl Acetate	4.72	43	2465	Below Cal	#	50
20) Methylene Chloride	4.96	84	81544	14.332	ug/l	98
23) Vinyl Acetate	6.27	43	122	2.691	ug/l #	71
31) Cyclohexane	7.97	56	19167	2.736	ug/l #	44
36) 1,1-Dichloropropene	7.98	75	33613	4.564	ug/l #	50
38) Carbon Tetrachloride	7.98	117	41545	5.160	ug/l #	19
39) Methylcyclohexane	9.35	83	27601	3.264	ug/l	87
48) Methyl methacrylate	9.53	41	2861	1.131	ug/l	90
49) 1,4-Dioxane	9.42	88	78	Below Cal	#	1
52) Toluene	10.40	92	21197	1.603	ug/l	90
68) m/p-Xylenes	11.85	106	21180	2.011	ug/l	98
69) o-Xylene	12.18	106	9577	1.006	ug/l	96
76) 1,2,3-Trichloropropane	12.63	75	183701	63.398	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	183701	158.615	ug/l #	10

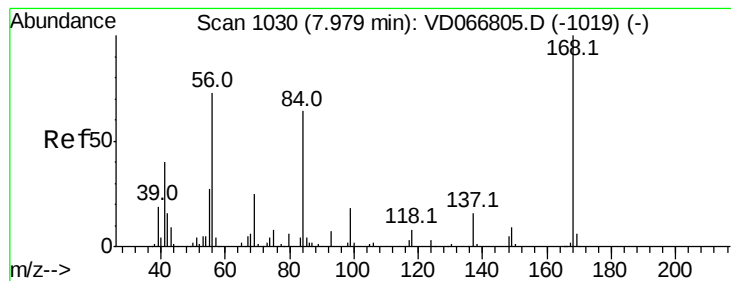
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092220\
Data File : VD066820.D
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Quant Time: Sep 23 02:10:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
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QLast Update : Wed Sep 23 01:34:05 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampled :

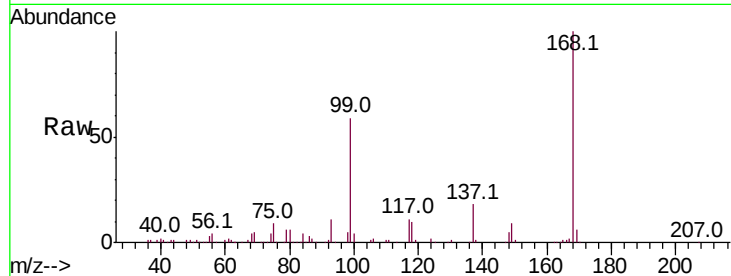
024

Tot Ion:168 Resp: 393683

Ion Ratio Lower Upper

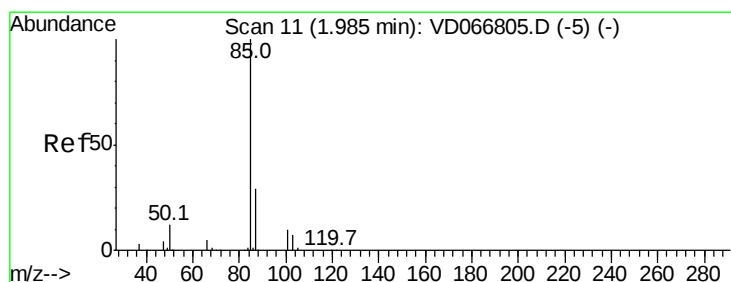
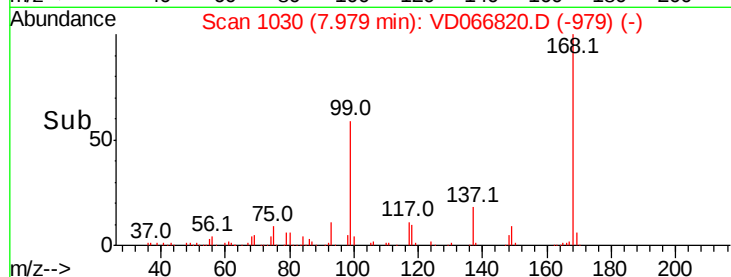
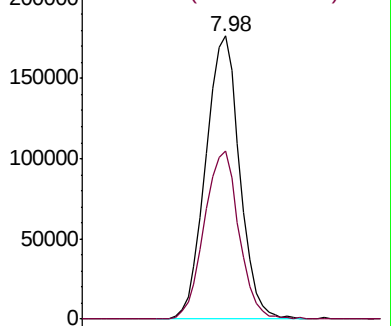
168 100

99 59.3 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.97 min Scan# 9

Delta R.T. -0.01 min

Lab File: VD066820.D

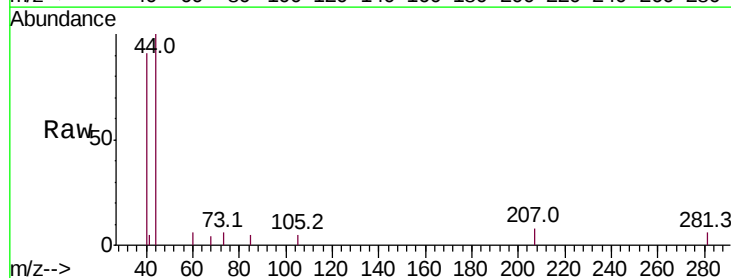
Acq: 22 Sep 2020 19:30

Tgt Ion: 85 Resp: 70

Ion Ratio Lower Upper

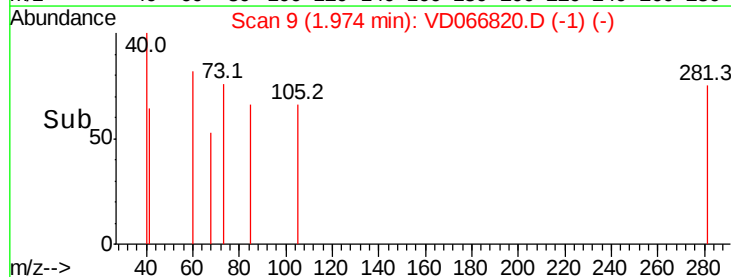
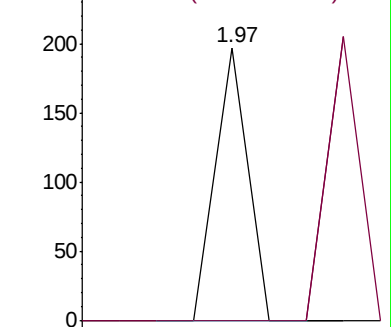
85 100

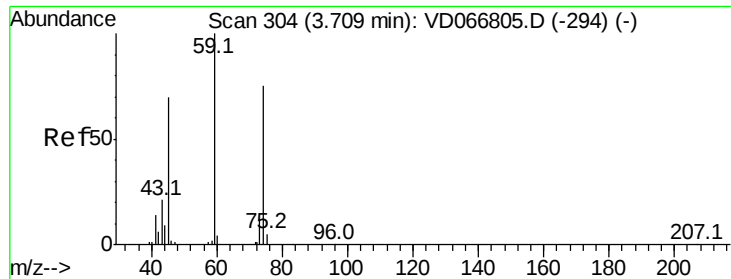
87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 1.956 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

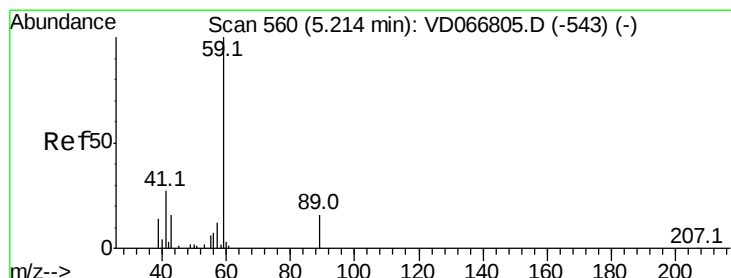
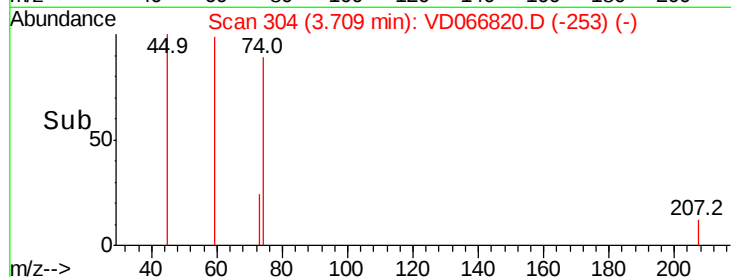
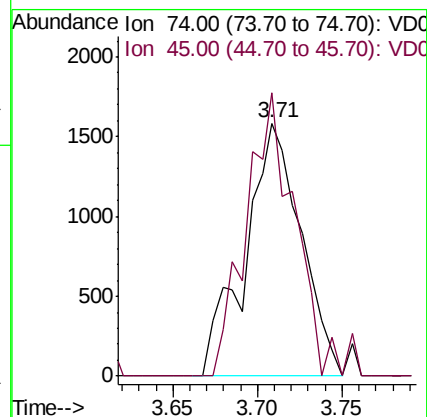
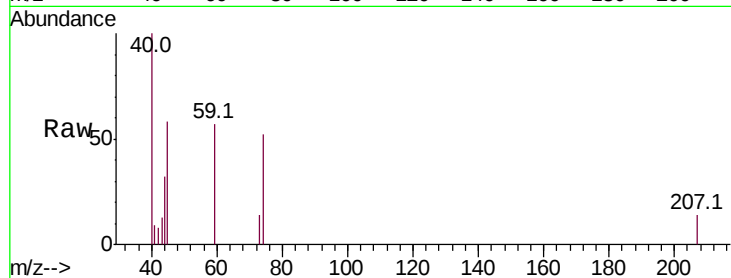
024

Tot Ion: 74 Resp: 3644

Ion Ratio Lower Upper

74 100

45 99.7 46.0 138.0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD066820.D

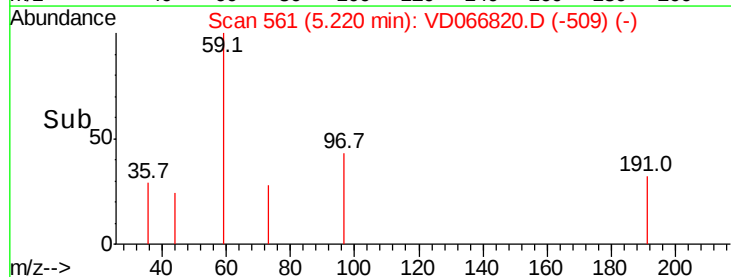
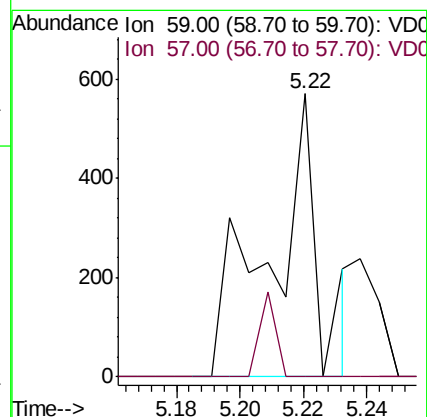
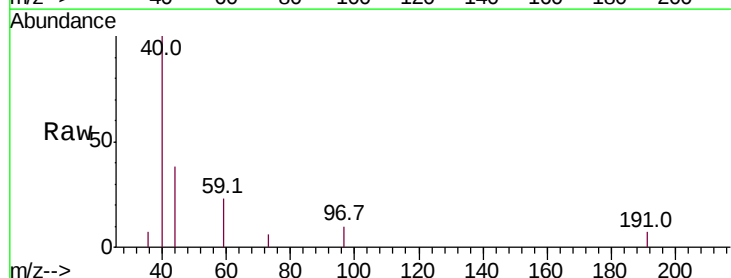
Acq: 22 Sep 2020 19:30

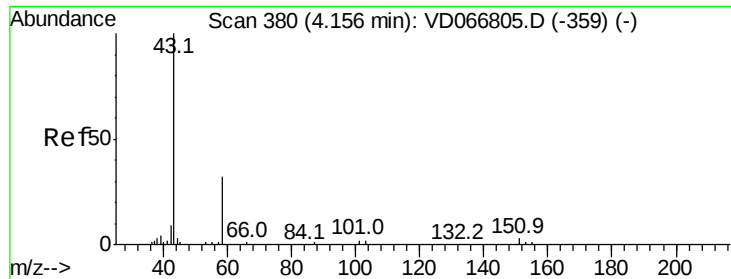
Tgt Ion: 59 Resp: 604

Ion Ratio Lower Upper

59 100

57 9.9 8.3 12.5





#16

Acetone

Concen: 2.398 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

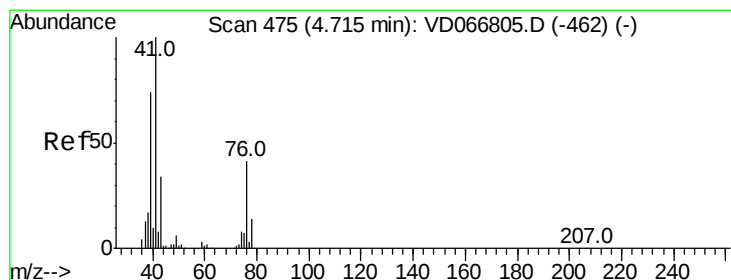
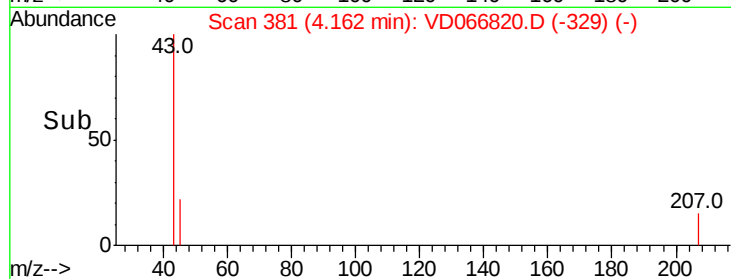
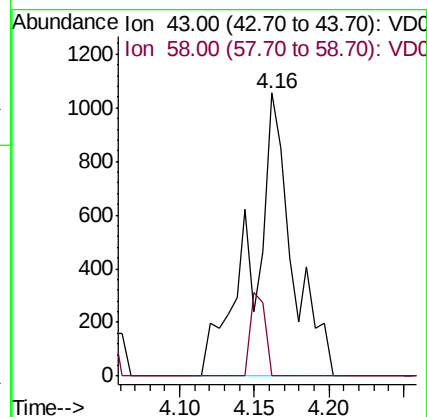
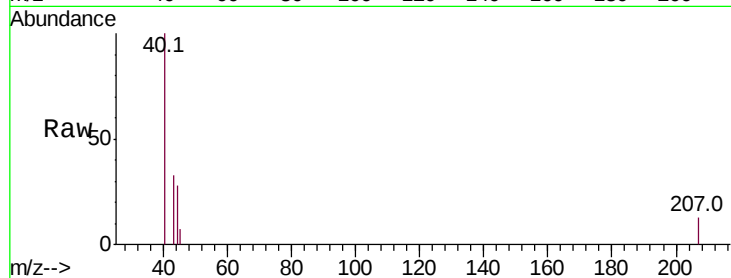
024

Tot Ion: 43 Resp: 1960

Ion Ratio Lower Upper

43 100

58 0.0 25.6 38.4#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.72 min Scan# 476

Delta R.T. 0.01 min

Lab File: VD066820.D

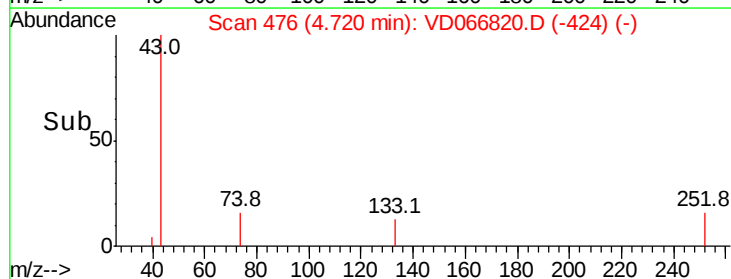
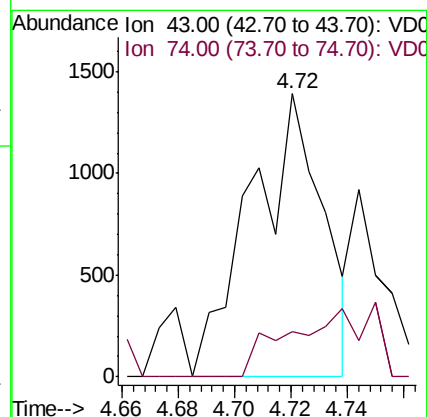
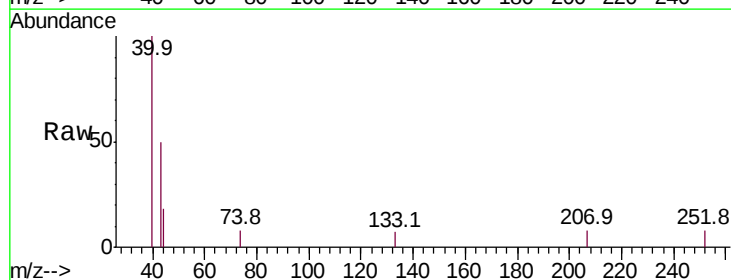
Acq: 22 Sep 2020 19:30

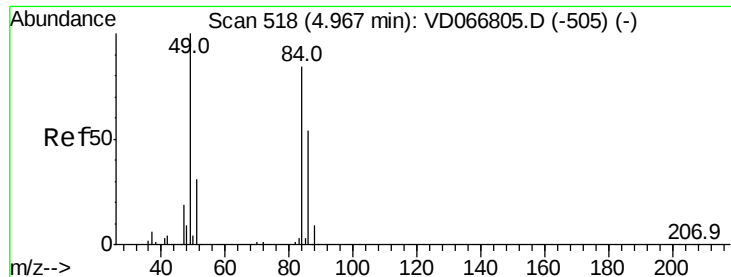
Tgt Ion: 43 Resp: 2465

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#

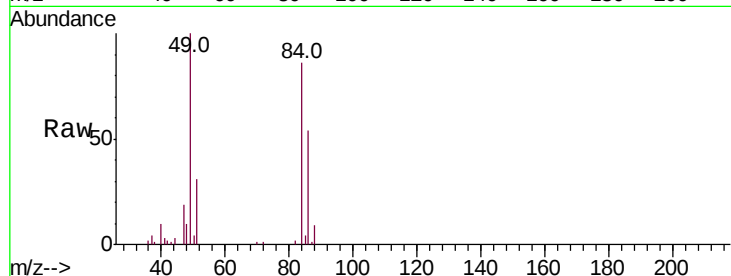




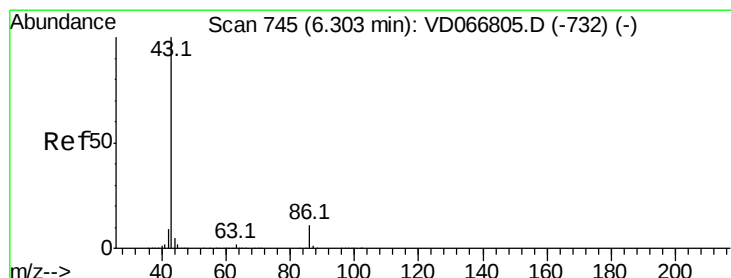
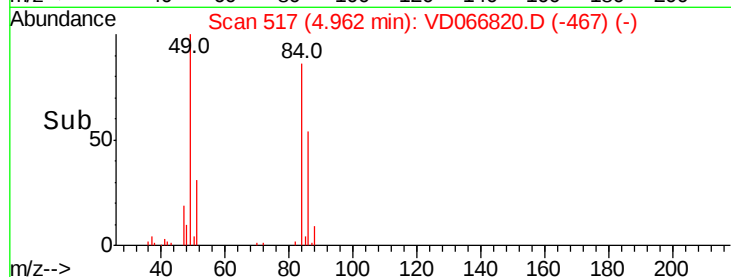
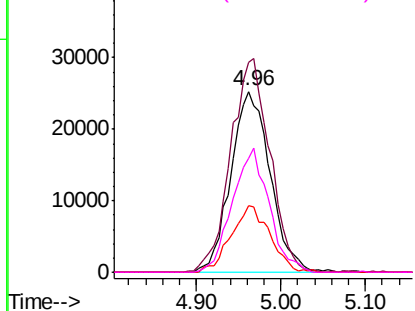
#20
Methvlene Chloride
Concen: 14.332 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

Instrument :
MSVOA_D
ClientSampleId :
024

Tot Ion: 84 Resp: 81544
Ion Ratio Lower Upper
84 100
49 116.2 95.4 143.2
51 36.6 29.7 44.5
86 62.8 51.4 77.2

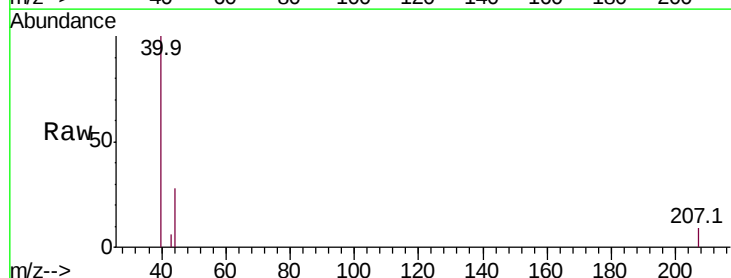


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

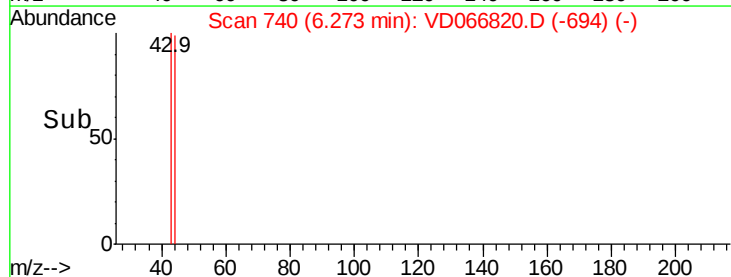
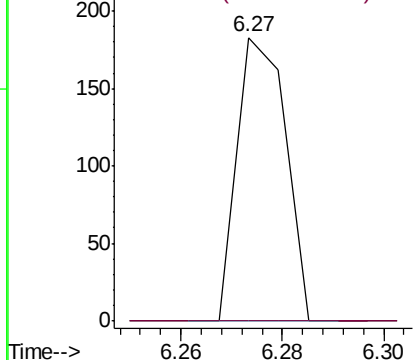


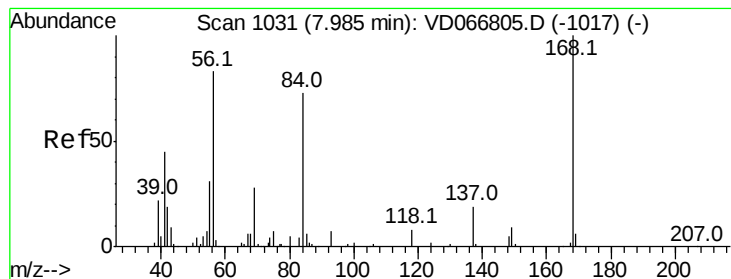
#23
Vinyl Acetate
Concen: 2.691 ug/l
RT: 6.27 min Scan# 740
Delta R.T. -0.03 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

Tgt Ion: 43 Resp: 122
Ion Ratio Lower Upper
43 100
86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 86.00 (85.70 to 86.70): VDC





#31

Cyclohexane

Concen: 2.736 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

024

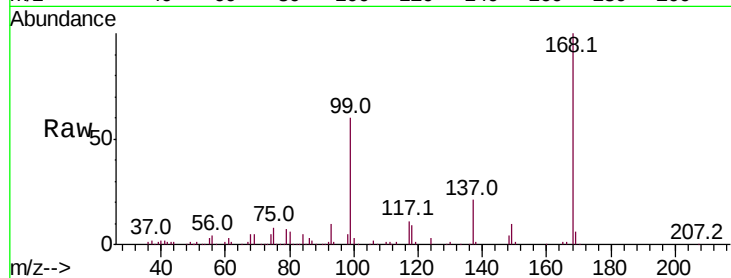
Tot Ion: 56 Resp: 19167

Ion Ratio Lower Upper

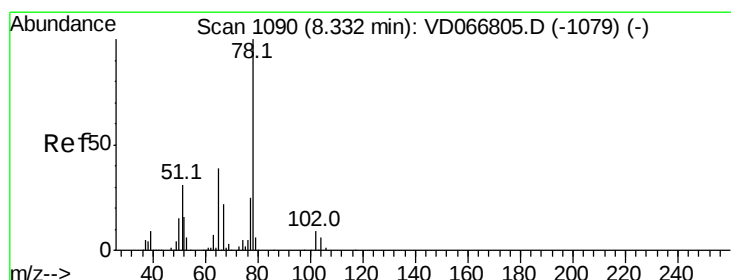
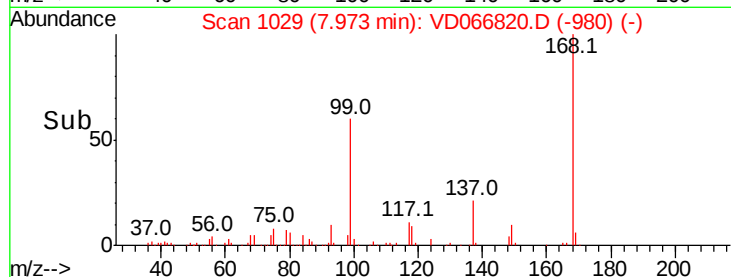
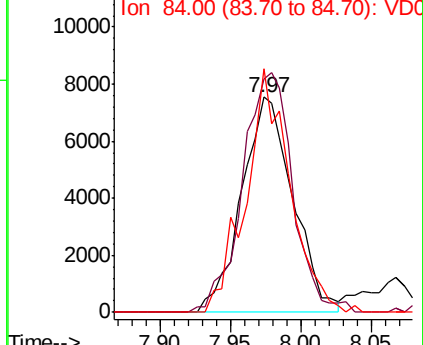
56 100

69 108.5 27.0 40.4#

84 113.2 70.2 105.4#



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: 62.716 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066820.D

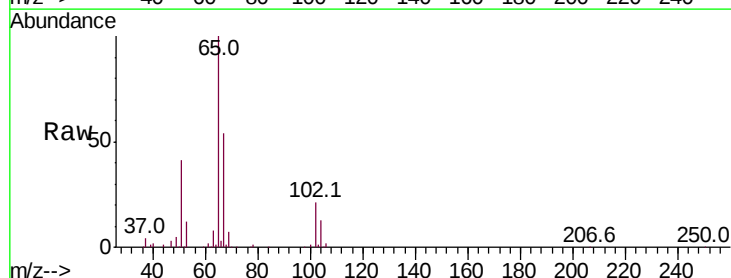
Acq: 22 Sep 2020 19:30

Tgt Ion: 65 Resp: 241658

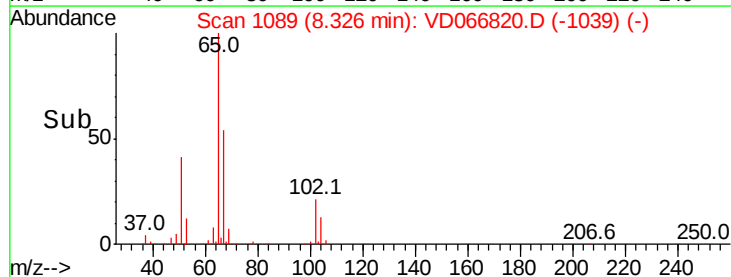
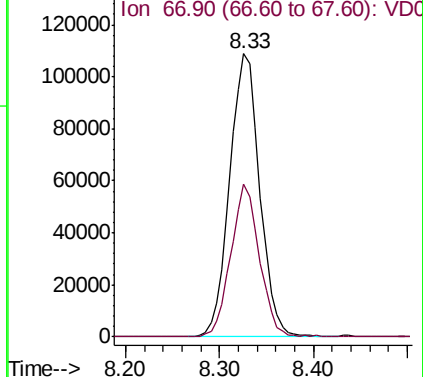
Ion Ratio Lower Upper

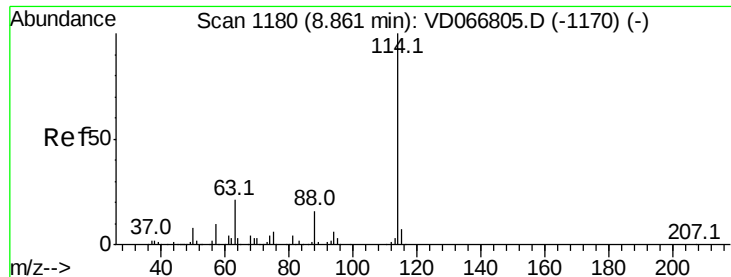
65 100

67 51.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

024

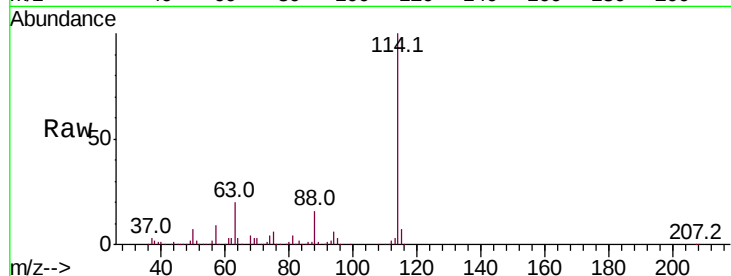
Tot Ion:114 Resp: 742297

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

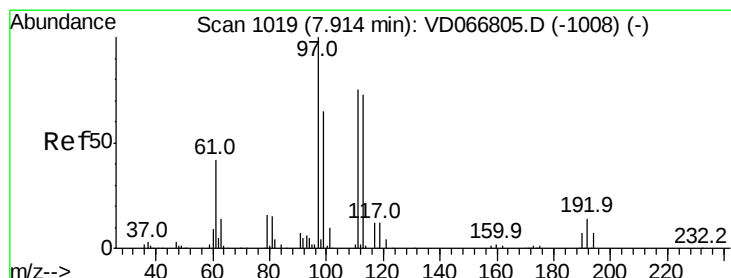
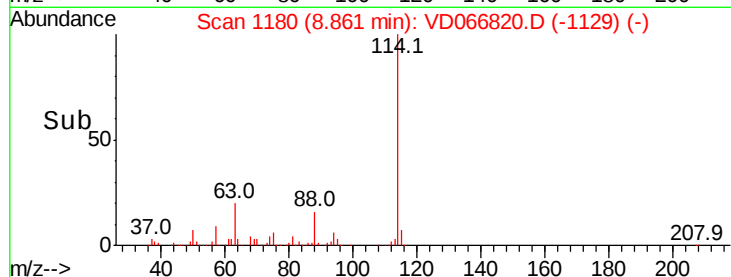
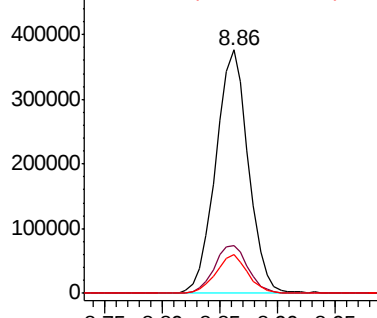
88 16.1 0.0 32.6



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: 49.308 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

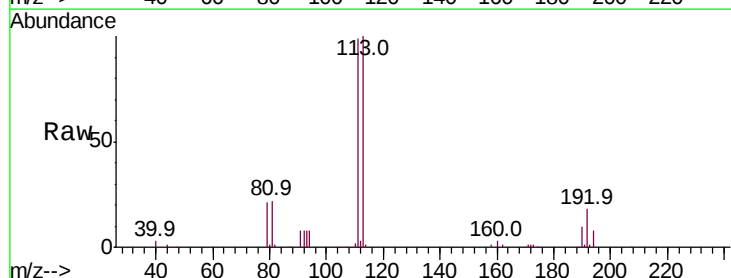
Tgt Ion:113 Resp: 232855

Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.8

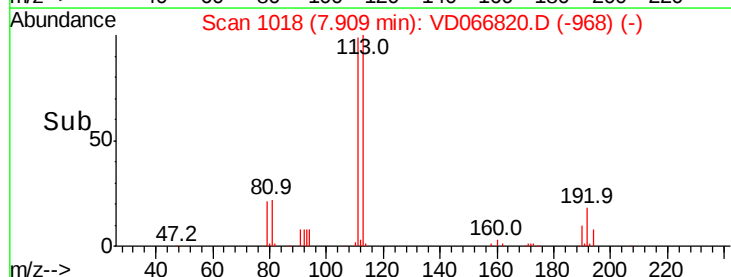
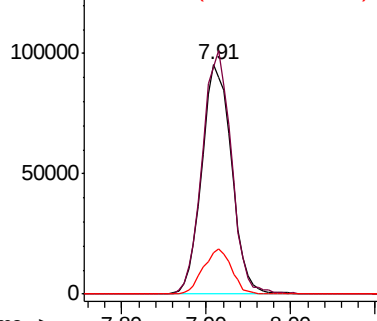
192 18.7 14.4 21.6

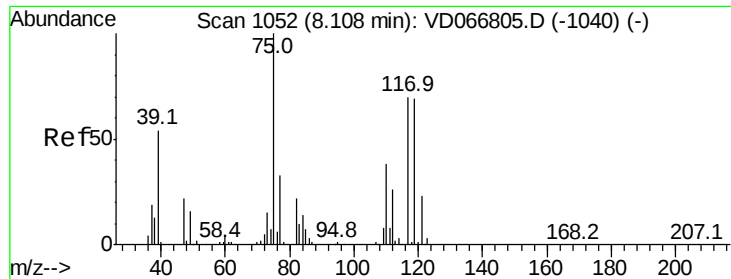


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.564 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

024

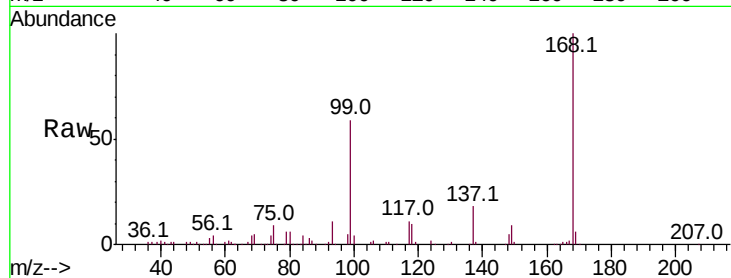
Tot Ion: 75 Resp: 33613

Ion Ratio Lower Upper

75 100

110 8.9 17.9 53.8#

77 0.6 25.0 37.6#

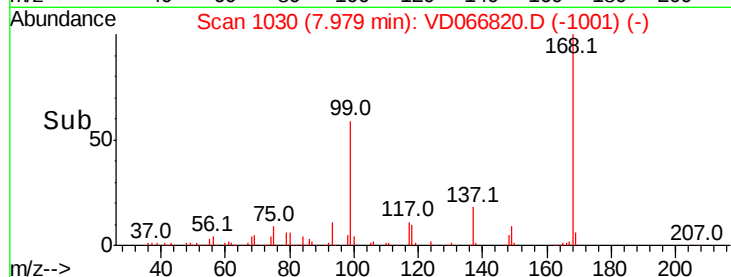


Abundance Ion 74.90 (74.60 to 75.60): VD066820.D (-998) (-)

Ion 109.90 (109.60 to 110.60): VD066820.D (-998) (-)

Ion 76.90 (76.60 to 77.60): VD066820.D (-998) (-)

Time-->

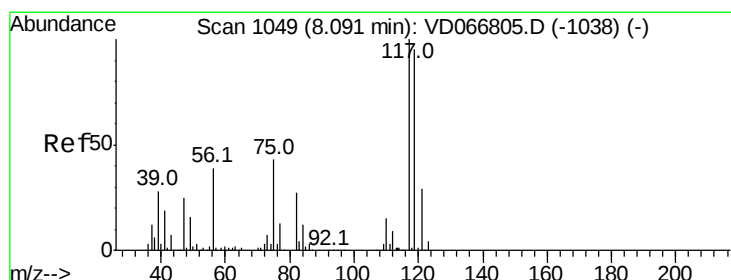


Abundance Ion 74.90 (74.60 to 75.60): VD066820.D (-998) (-)

Ion 109.90 (109.60 to 110.60): VD066820.D (-998) (-)

Ion 76.90 (76.60 to 77.60): VD066820.D (-998) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.160 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

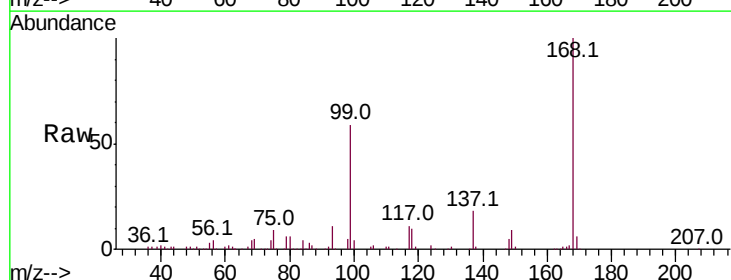
Tgt Ion: 117 Resp: 41545

Ion Ratio Lower Upper

117 100

119 8.5 75.8 113.8#

121 0.0 23.4 35.0#

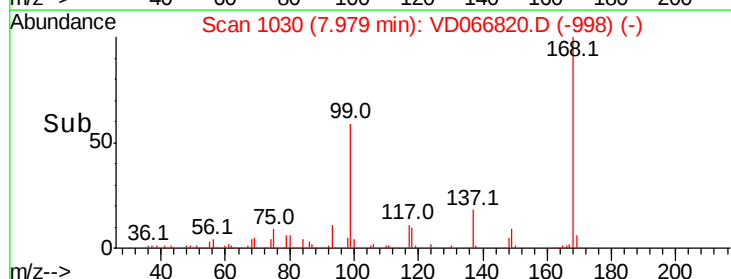


Abundance Ion 116.80 (116.50 to 117.50): VD066820.D (-998) (-)

Ion 118.80 (118.50 to 119.50): VD066820.D (-998) (-)

Ion 120.80 (120.50 to 121.50): VD066820.D (-998) (-)

Time-->

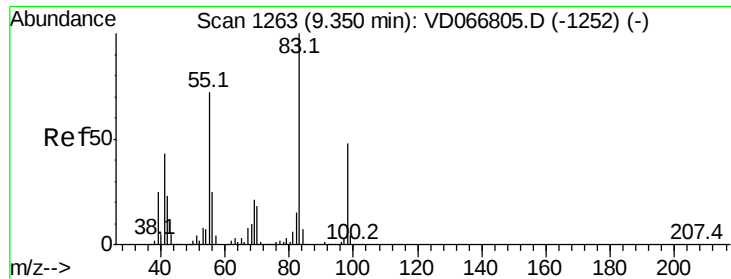


Abundance Ion 116.80 (116.50 to 117.50): VD066820.D (-998) (-)

Ion 118.80 (118.50 to 119.50): VD066820.D (-998) (-)

Ion 120.80 (120.50 to 121.50): VD066820.D (-998) (-)

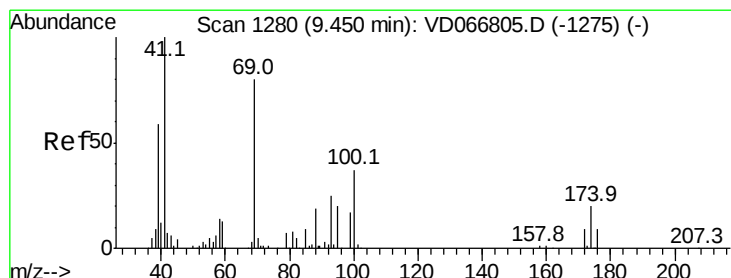
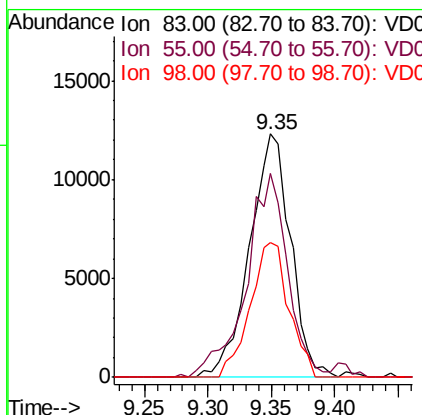
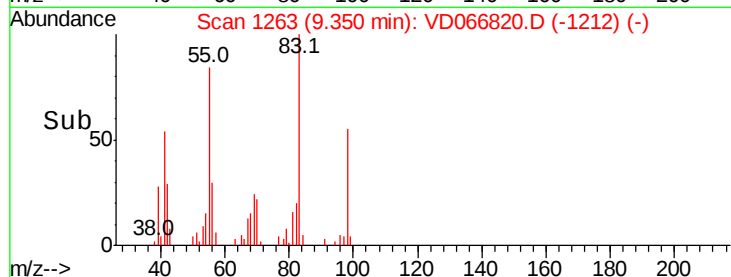
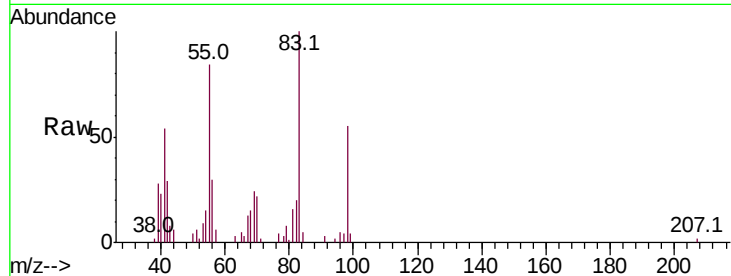
Time-->



#39
Methylcyclohexane
Concen: 3.264 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

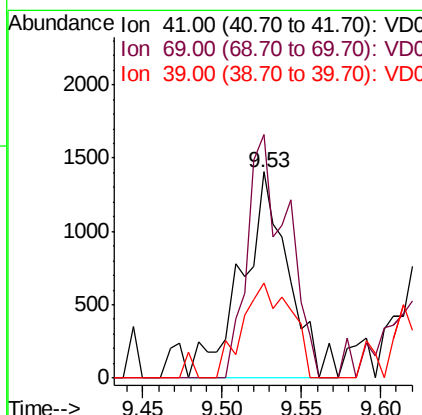
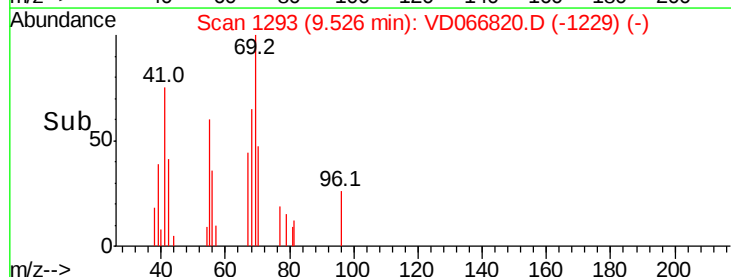
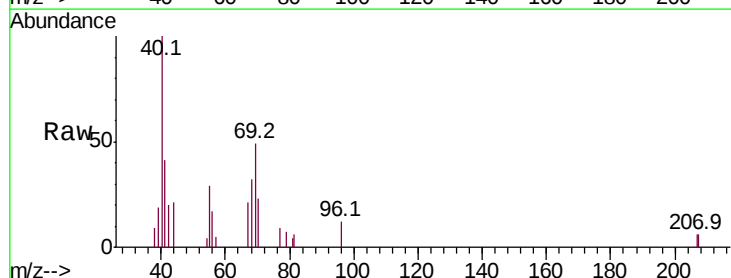
Instrument :
MSVOA_D
ClientSampleId :
024

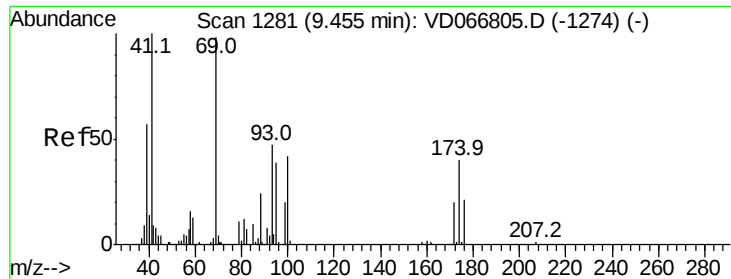
Tot Ion: 83 Resp: 27601
Ion Ratio Lower Upper
83 100
55 83.6 57.7 86.5
98 55.4 38.4 57.6



#48
Methyl methacrylate
Concen: 1.131 ug/l
RT: 9.53 min Scan# 1293
Delta R.T. 0.08 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

Tgt Ion: 41 Resp: 2861
Ion Ratio Lower Upper
41 100
69 100.5 74.5 111.7
39 48.1 47.0 70.6





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.42 min Scan# 1275

Delta R.T. -0.03 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

024

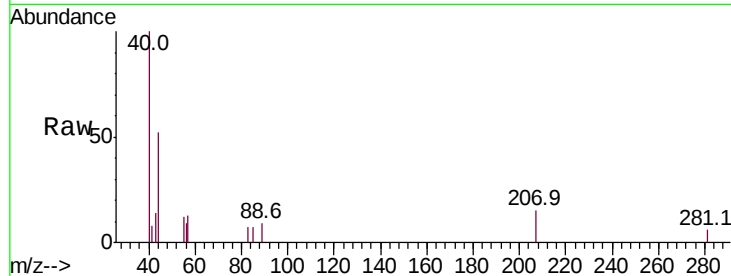
Tot Ion: 88 Resp: 78

Ion Ratio Lower Upper

88 100

43 1805.1 27.7 41.5#

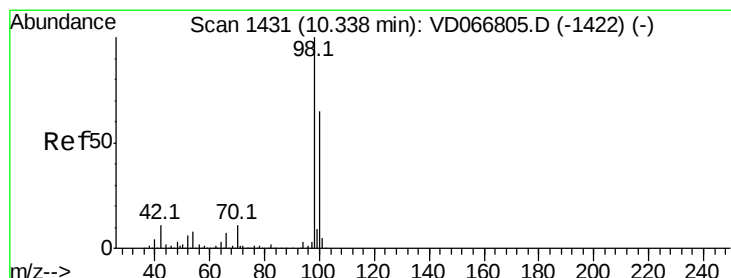
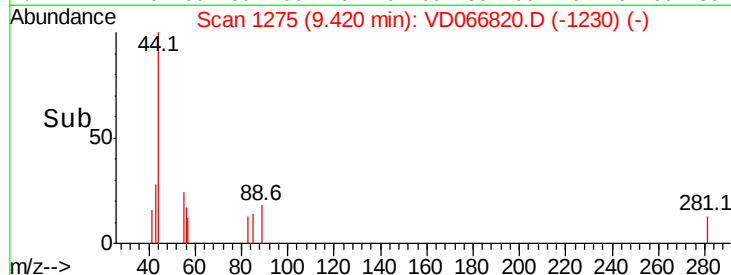
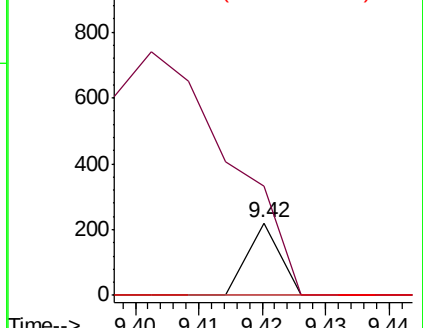
58 0.0 55.5 83.3#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 58.039 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VD066820.D

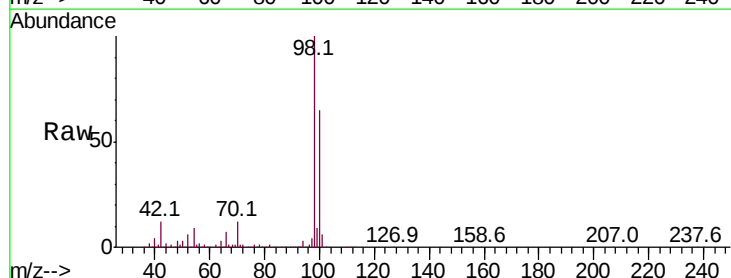
Acq: 22 Sep 2020 19:30

Tgt Ion: 98 Resp: 933866

Ion Ratio Lower Upper

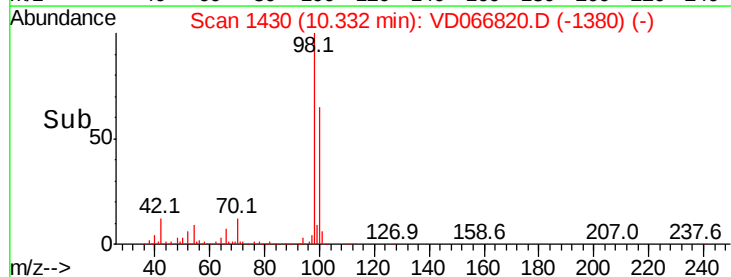
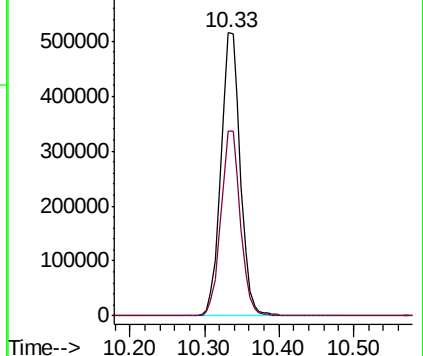
98 100

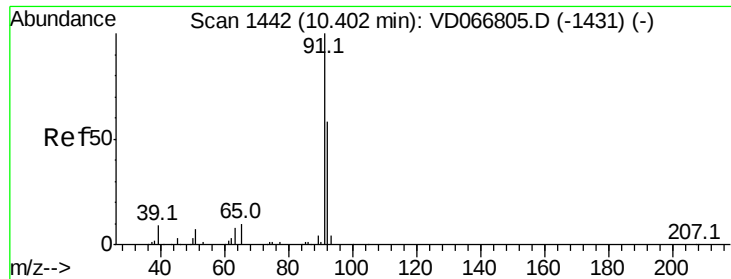
100 65.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#52

Toluene

Concen: 1.603 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

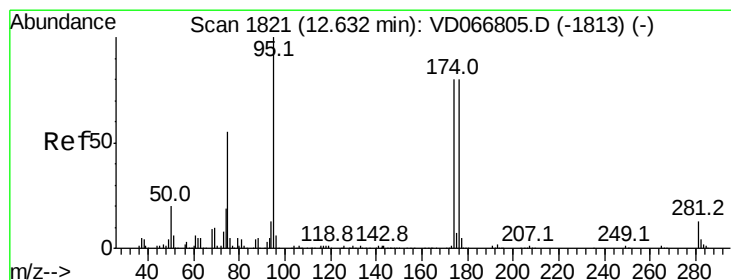
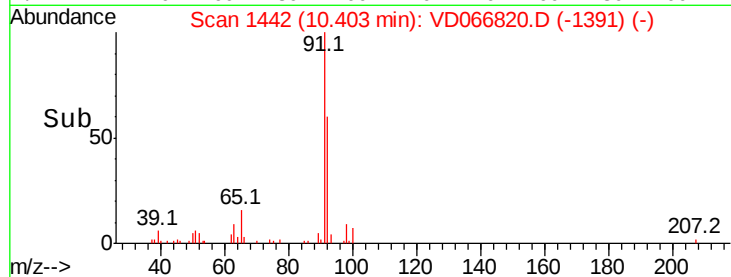
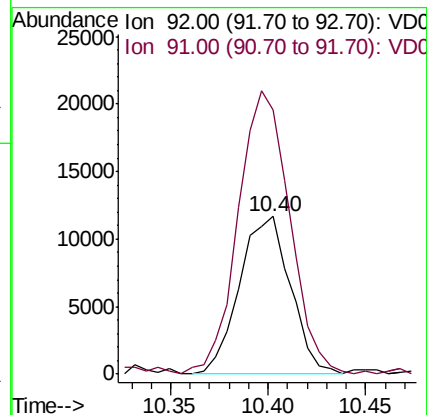
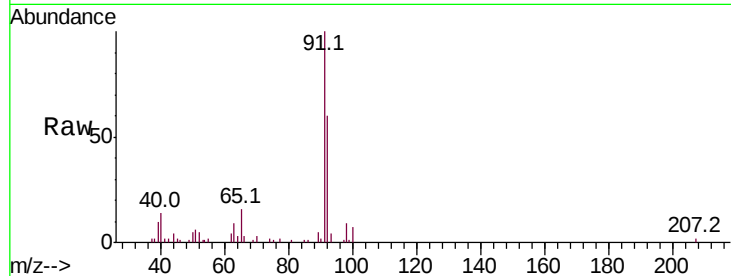
024

Tot Ion: 92 Resp: 21197

Ion Ratio Lower Upper

92 100

91 181.3 134.6 202.0



#62

4-Bromofluorobenzene

Concen: 61.685 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

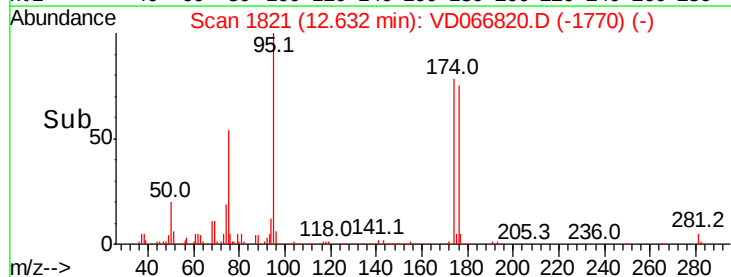
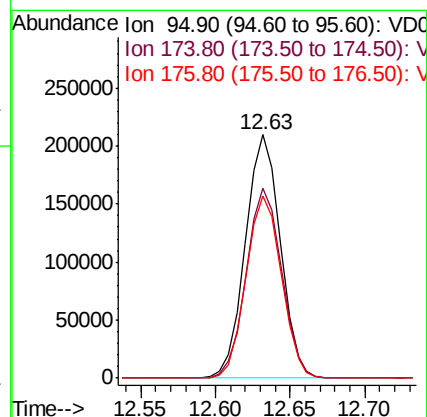
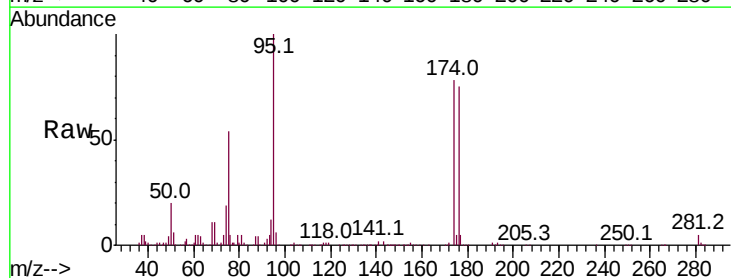
Tgt Ion: 95 Resp: 339778

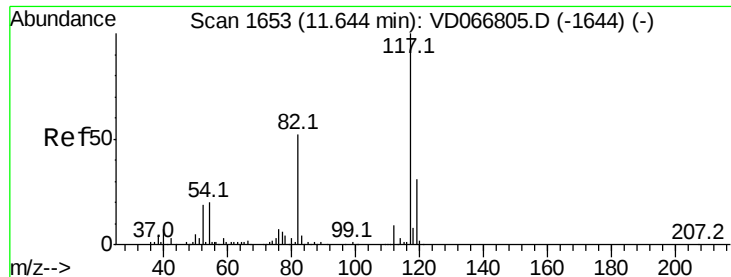
Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.8

176 75.7 0.0 154.4

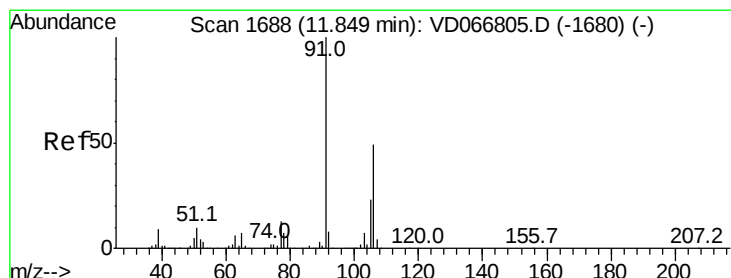
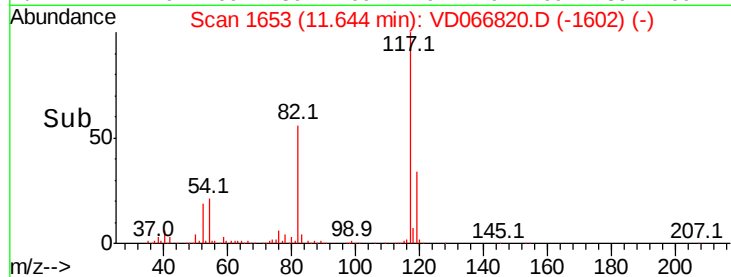
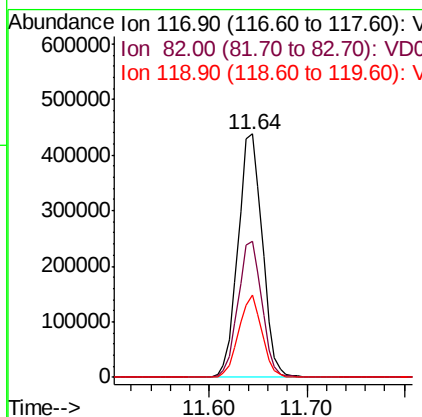
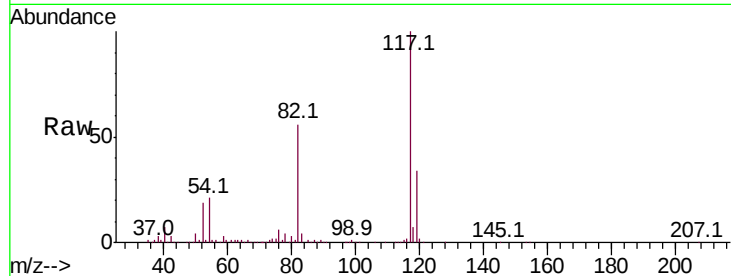




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

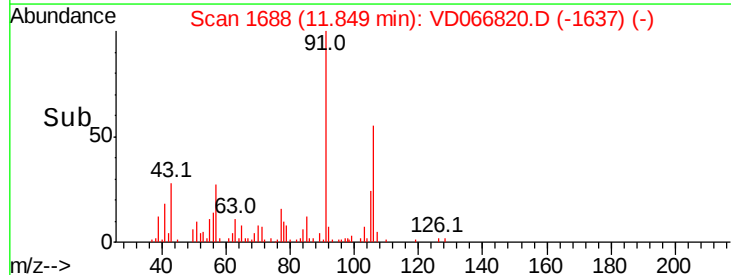
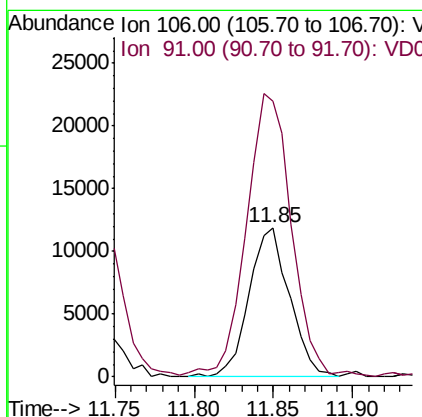
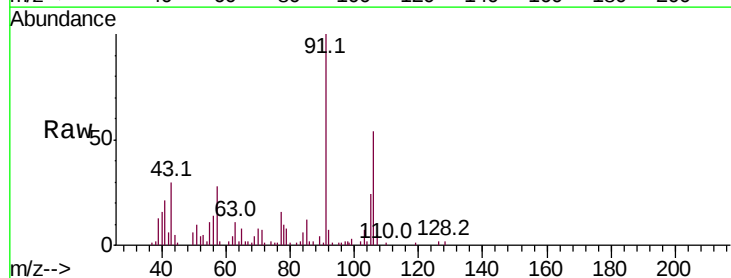
Instrument :
MSVOA_D
ClientSampleId :
024

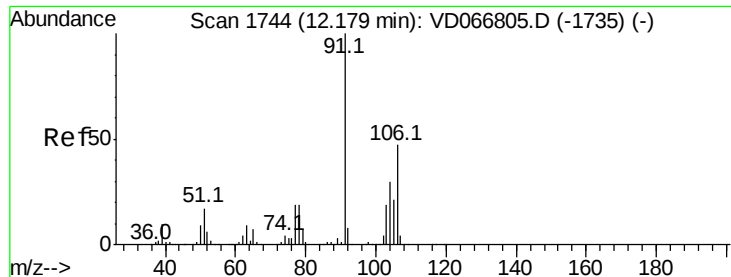
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	41.8	62.6
119	33.6	24.6	37.0



#68
m/p-Xylenes
Concen: 2.011 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

Tgt Ion	Ratio	Lower	Upper
106	100		
91	204.5	160.7	241.1

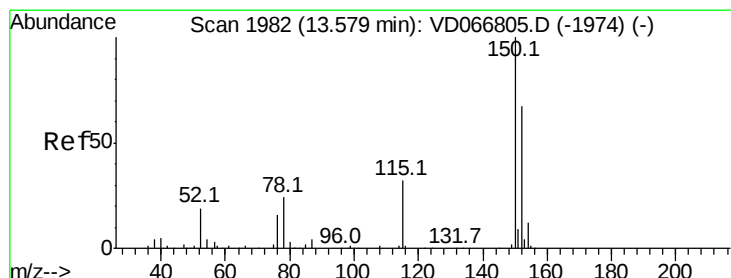
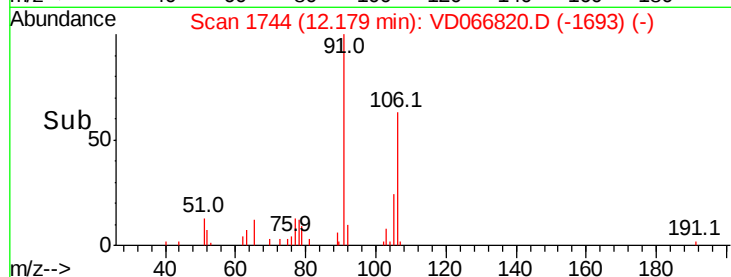
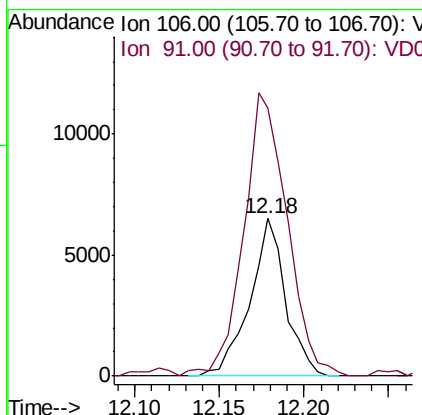
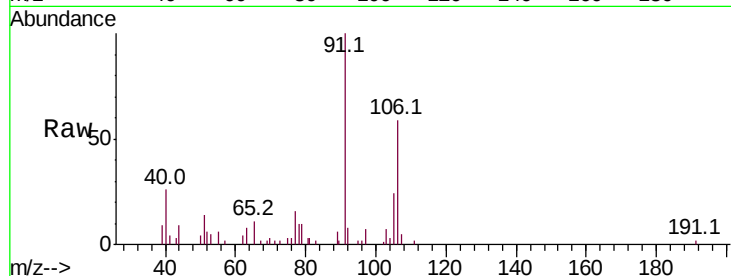




#69
o-Xylene
Concen: 1.006 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

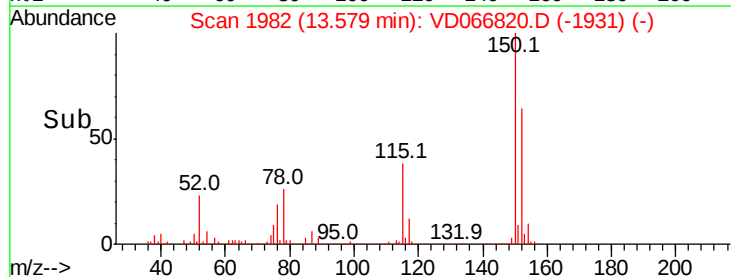
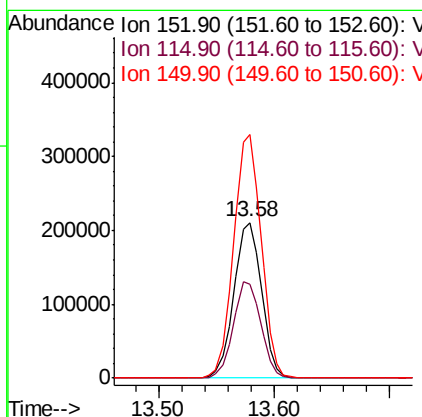
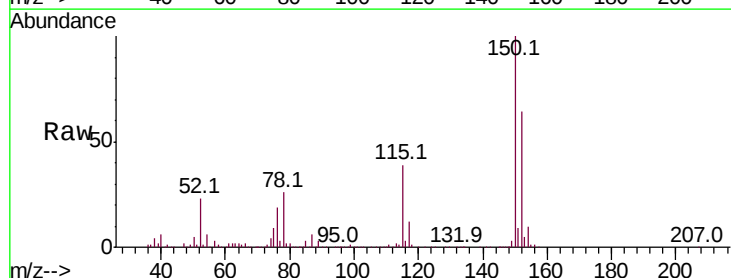
Instrument :
MSVOA_D
ClientSampled :
024

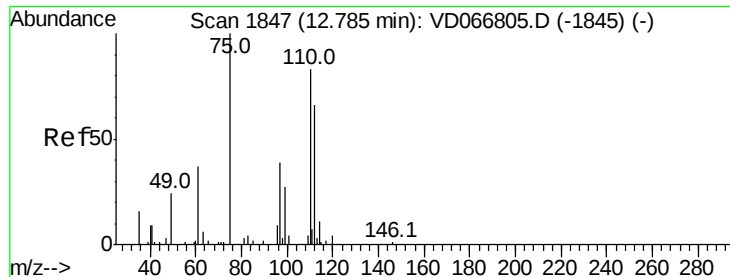
Tot Ion:106 Resp: 9577
Ion Ratio Lower Upper
106 100
91 218.4 106.3 318.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066820.D
Acq: 22 Sep 2020 19:30

Tgt Ion:152 Resp: 349648
Ion Ratio Lower Upper
152 100
115 61.9 30.3 91.0
150 155.4 0.0 346.2





#76

1,2,3-Trichloropropane

Concen: 63.398 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

Instrument :

MSVOA_D

ClientSampleId :

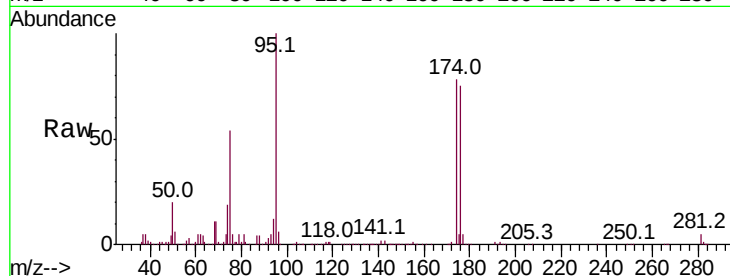
024

Tot Ion: 75 Resp: 183701

Ion Ratio Lower Upper

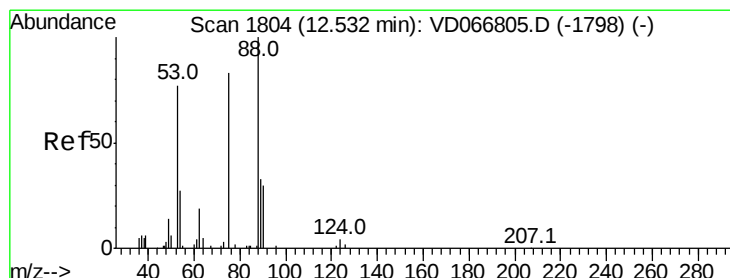
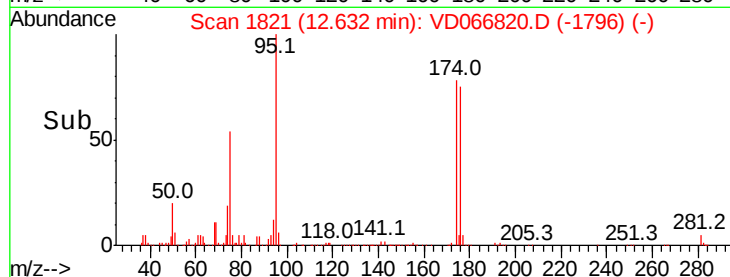
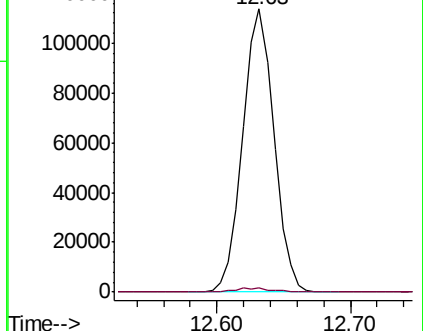
75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 158.615 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066820.D

Acq: 22 Sep 2020 19:30

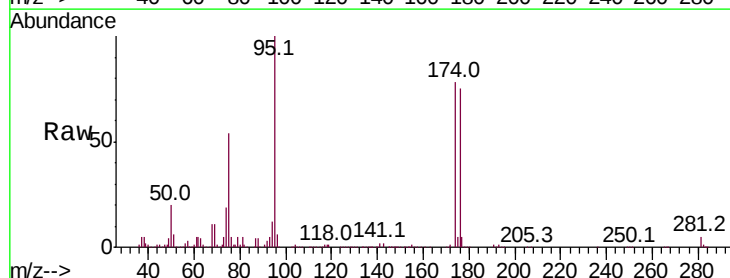
Tgt Ion: 75 Resp: 183701

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.1 38.1 57.1#



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

