

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065543.D
 Acq On : 27 Mar 2020 14:46
 Operator : VA/SY
 Sample : L2052-01
 Misc : 5.93G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:34:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	499290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	923961	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	906275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	402021	50.00	ug/l	0.00

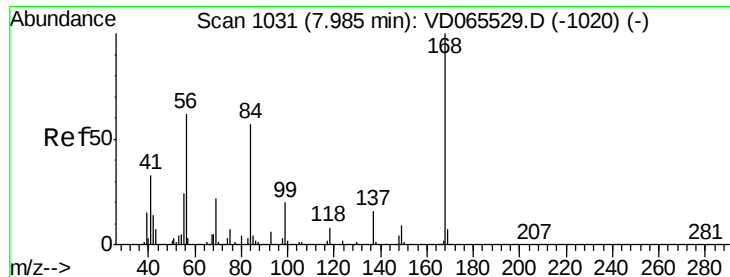
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	287570	69.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.38%	
35) Dibromofluoromethane	7.92	113	317174	55.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.22%	
50) Toluene-d8	10.34	98	1126329	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
62) 4-Bromofluorobenzene	12.64	95	361601	53.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.42%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.99	85	160	Below Cal	#	42
3) Chloromethane	2.21	50	609	Below Cal	#	70
5) Bromomethane	2.78	94	472	Below Cal	#	49
16) Acetone	4.16	43	817	1.042	ug/l #	40
20) Methylene Chloride	4.96	84	5486	Below Cal		92
31) Cyclohexane	7.98	56	8938	1.144	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	33997	4.027	ug/l #	48
38) Carbon Tetrachloride	7.98	117	46139	5.189	ug/l #	16
51) 4-Methyl-2-Pentanone	10.34	43	4850	1.638	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	176097	56.975	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	176097	127.179	ug/l #	13
95) Naphthalene	15.41	128	798	4.381	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

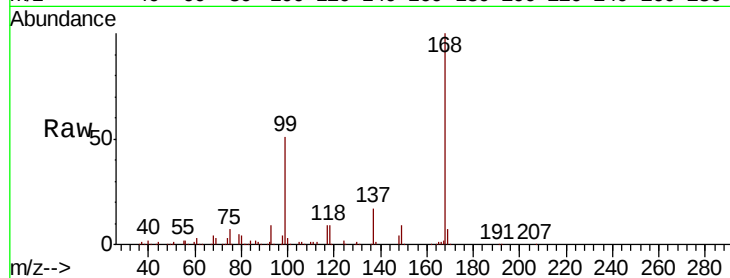
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 499290

Ion Ratio Lower Upper

168 100

99 51.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

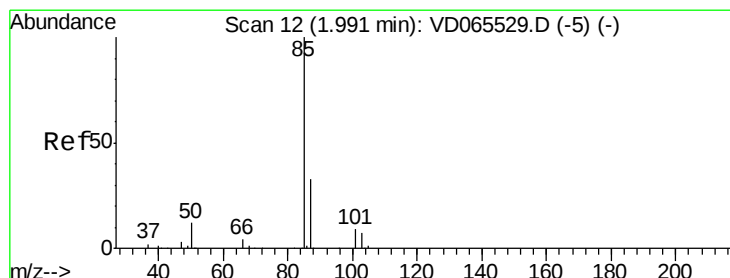
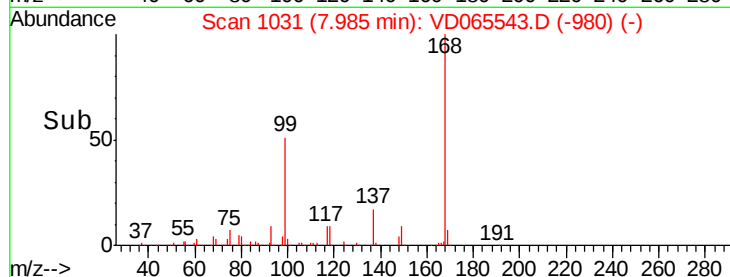
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065543.D

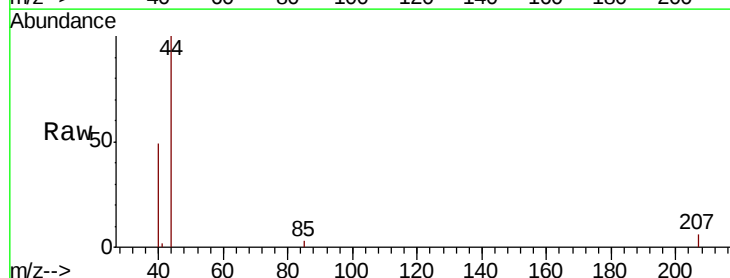
Acq: 27 Mar 2020 14:46

Tgt Ion: 85 Resp: 160

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

300

250

200

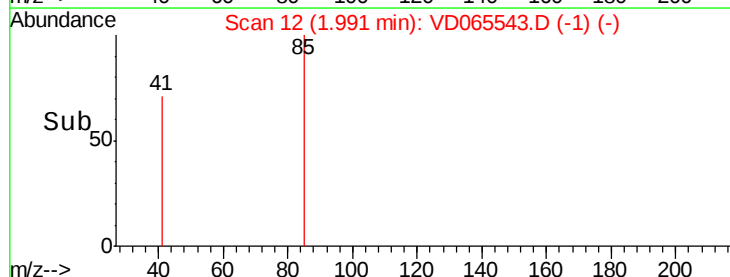
150

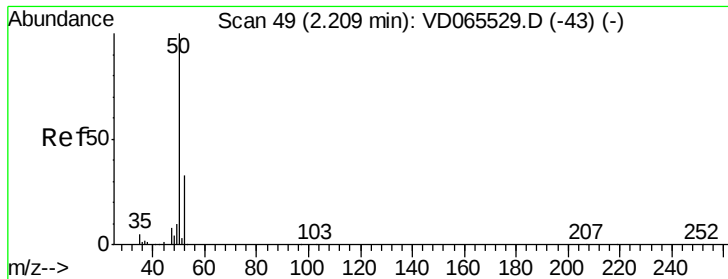
100

50

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

Instrument :

MSVOA_D

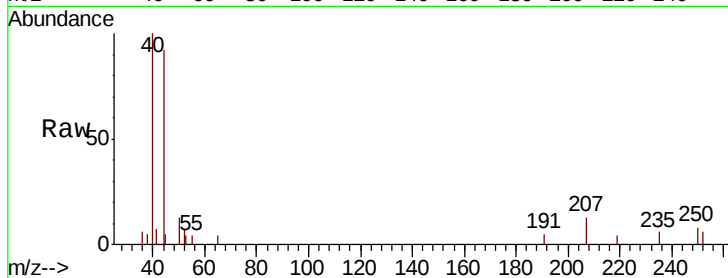
ClientSampleId :

Tot Ion: 50 Resp: 609

Ion Ratio Lower Upper

50 100

52 50.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

500

400

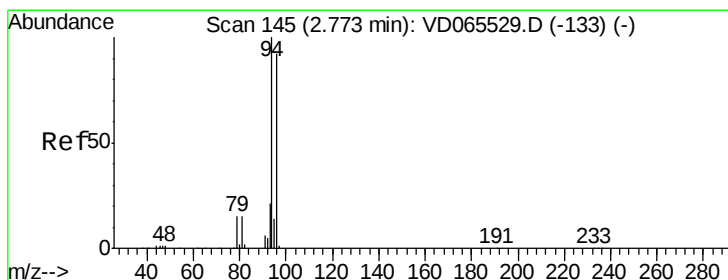
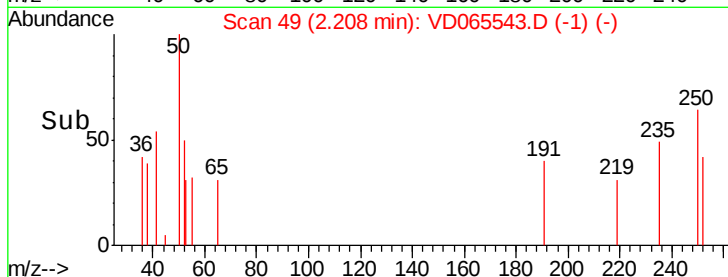
300

200

100

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065543.D

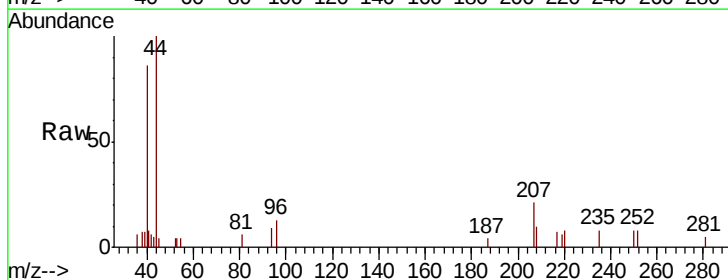
Acq: 27 Mar 2020 14:46

Tgt Ion: 94 Resp: 472

Ion Ratio Lower Upper

94 100

96 43.3 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

600

500

400

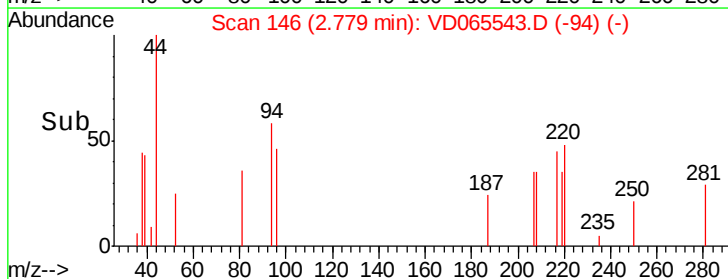
300

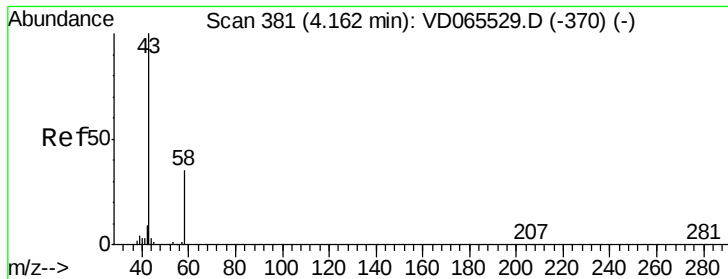
200

100

0

Time-->





#16

Acetone

Concen: 1.042 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

Instrument :

MSVOA_D

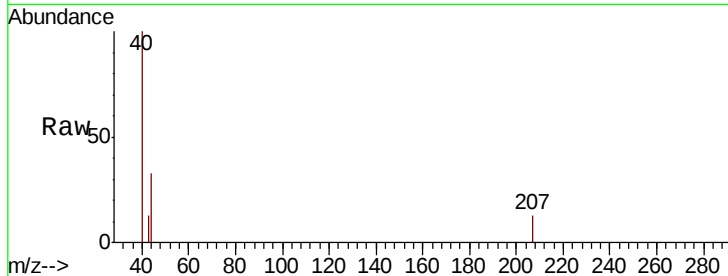
ClientSampleId :

Tot Ion: 43 Resp: 817

Ion Ratio Lower Upper

43 100

58 0.0 27.9 41.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

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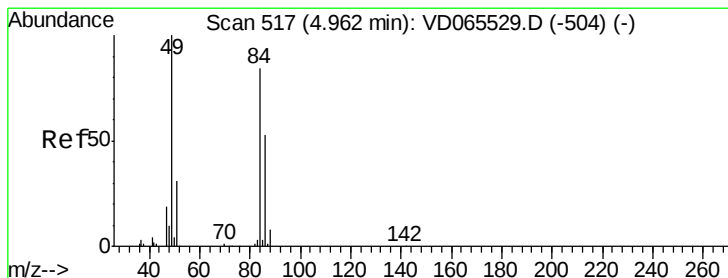
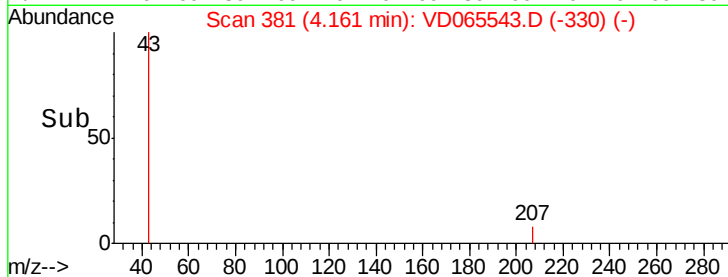
4.16

4.16

4.16

4.16

4.16



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

Tgt Ion: 84 Resp: 5486

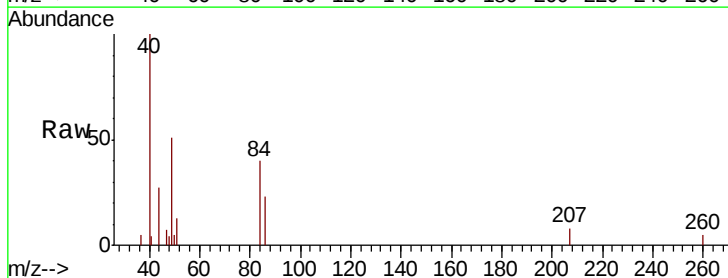
Ion Ratio Lower Upper

84 100

49 128.3 95.6 143.4

51 31.8 29.4 44.2

86 57.7 50.6 76.0



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

4.96

4.96

4.96

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4.96

4.96

4.96

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4.96

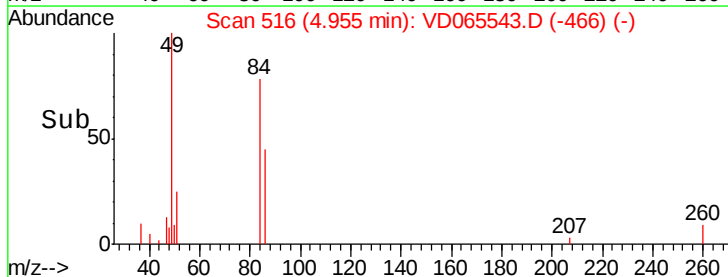
4.96

4.96

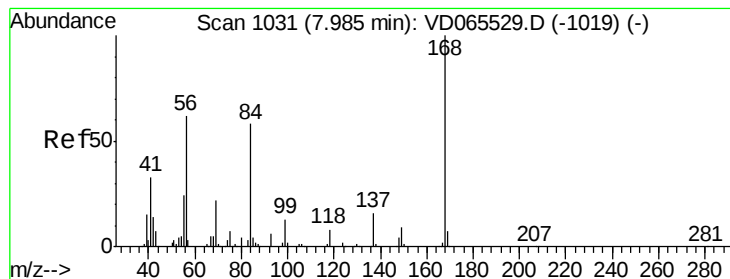
4.96

4.96

4.96



Time-->



#31

Cyclohexane

Concen: 1.144 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

Instrument :

MSVOA_D

ClientSampleId :

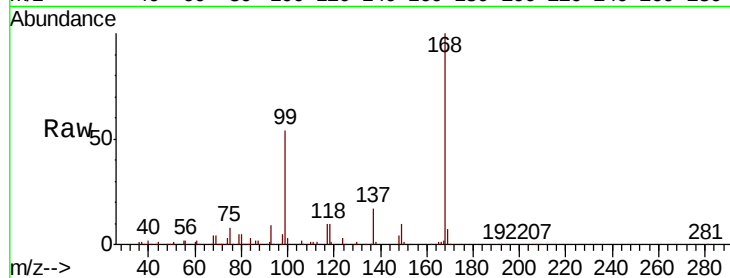
Tot Ion: 56 Resp: 8938

Ion Ratio Lower Upper

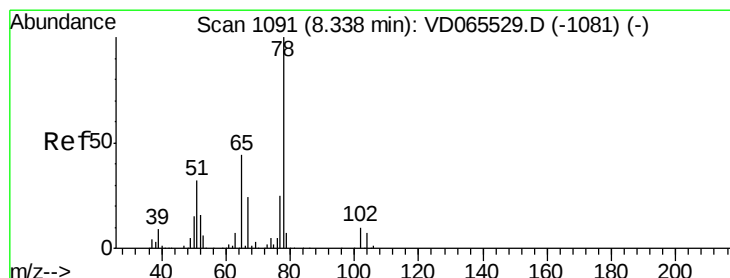
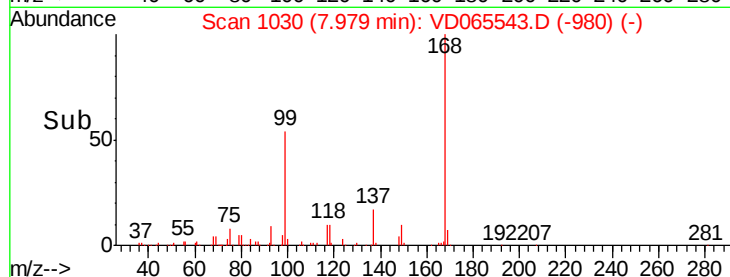
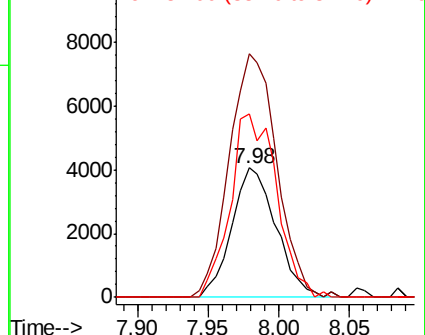
56 100

69 187.8 28.2 42.4#

84 142.0 73.4 110.0#



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: 69.190 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065543.D

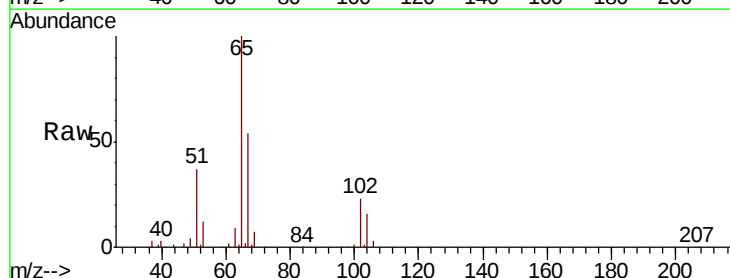
Acq: 27 Mar 2020 14:46

Tgt Ion: 65 Resp: 287570

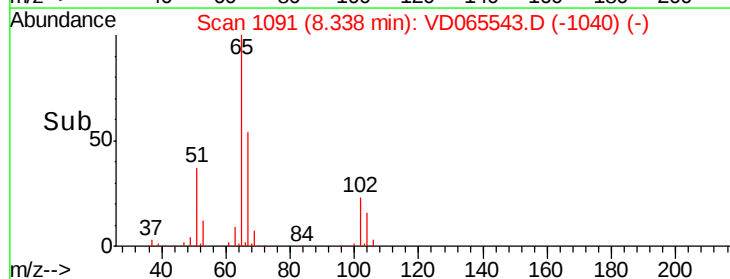
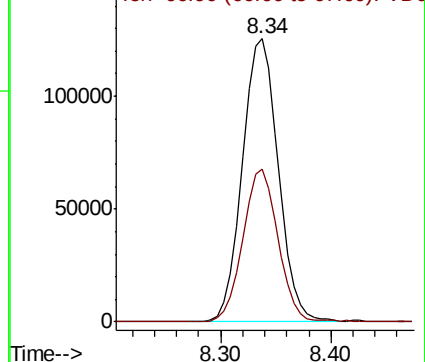
Ion Ratio Lower Upper

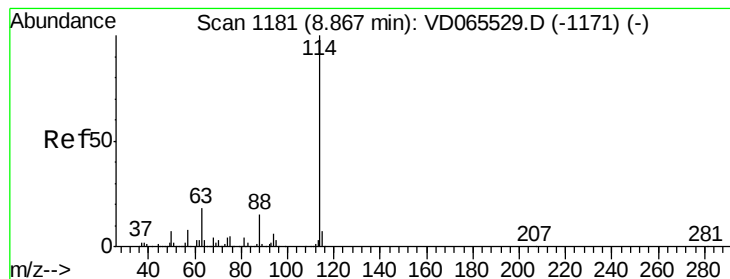
65 100

67 52.8 0.0 107.6



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: VD065543.D

Acq: 27 Mar 2020 14:46

Instrument :

MSVOA_D

ClientSampleId :

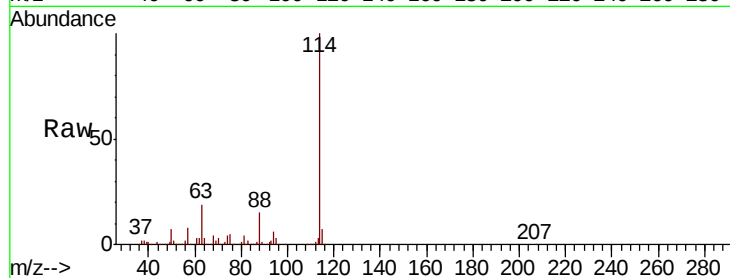
Tot Ion:114 Resp: 923961

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.0

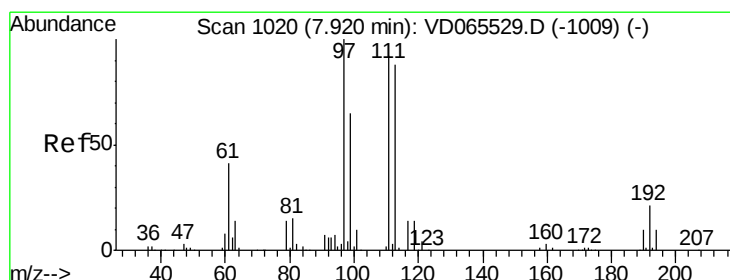
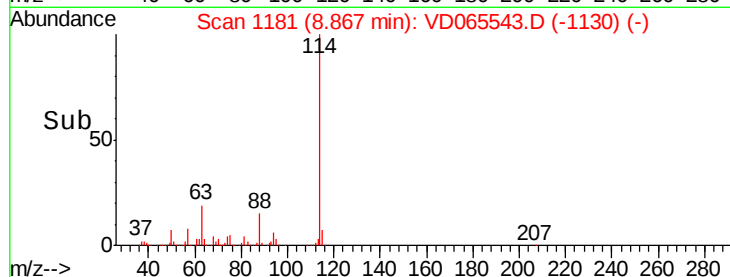
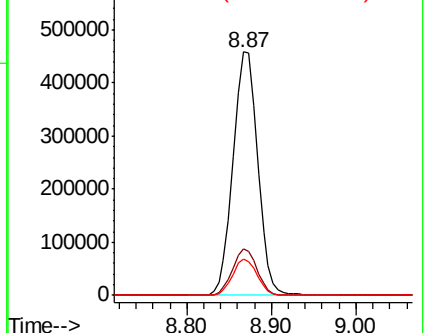
88 14.9 0.0 30.4



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: 55.614 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

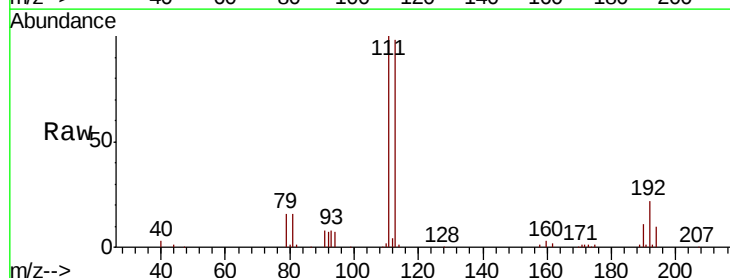
Tgt Ion:113 Resp: 317174

Ion Ratio Lower Upper

113 100

111 101.8 83.3 124.9

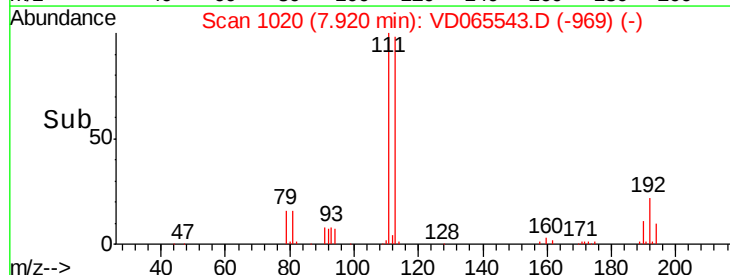
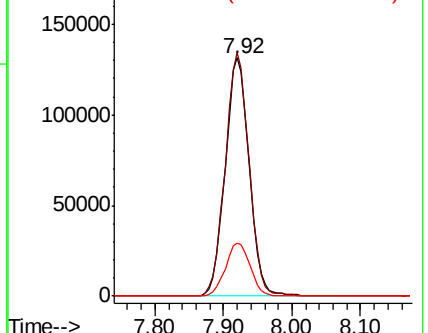
192 22.9 18.5 27.7

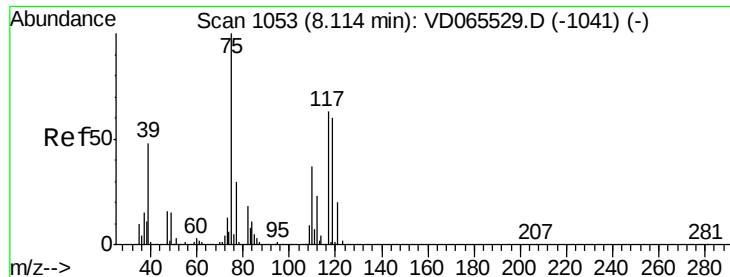


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

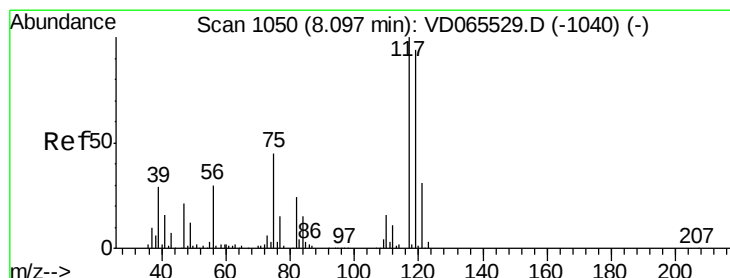
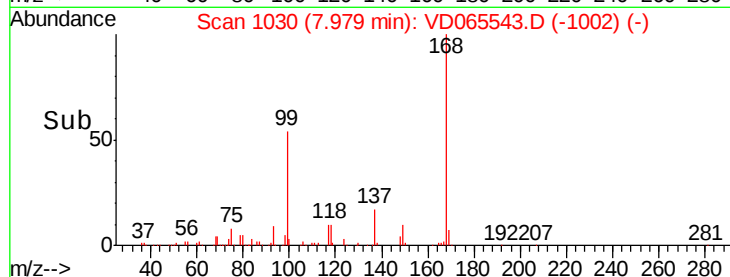
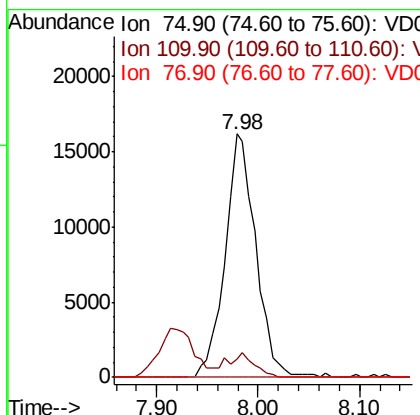
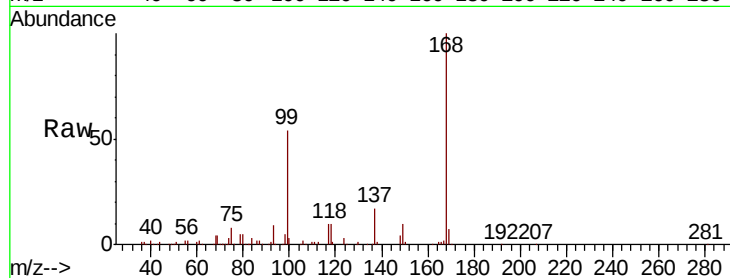




#36
 1,1-Dichloropropene
 Concen: 4.027 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065543.D
 Acq: 27 Mar 2020 14:46

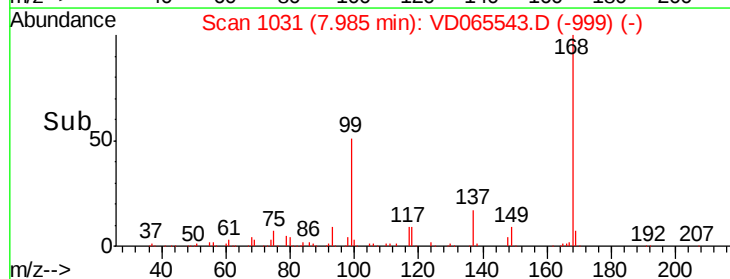
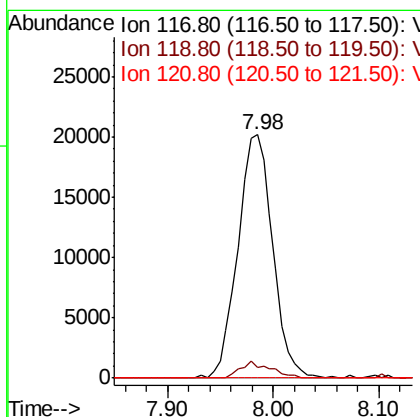
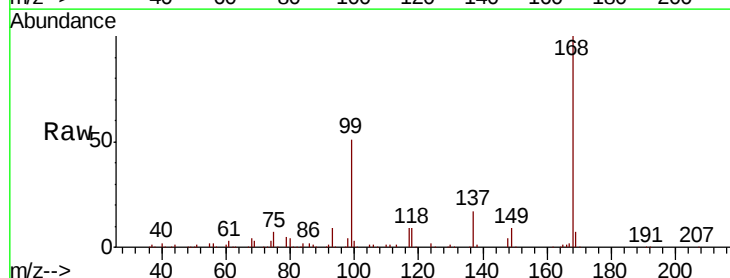
Instrument :
 MSVOA_D
 ClientSampleId :

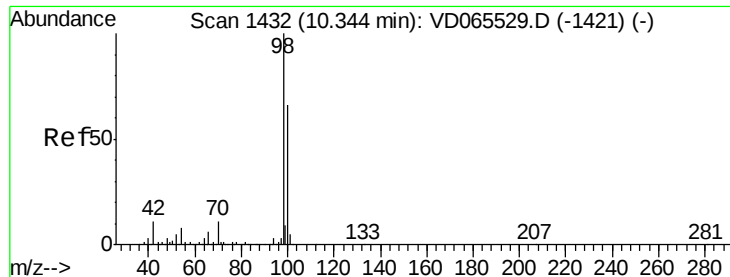
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.8	56.4#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.189 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD065543.D
 Acq: 27 Mar 2020 14:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	75.2	112.8#
121	0.0	24.5	36.7#





#50

Toluene-d8

Concen: 52.605 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

Instrument :

MSVOA_D

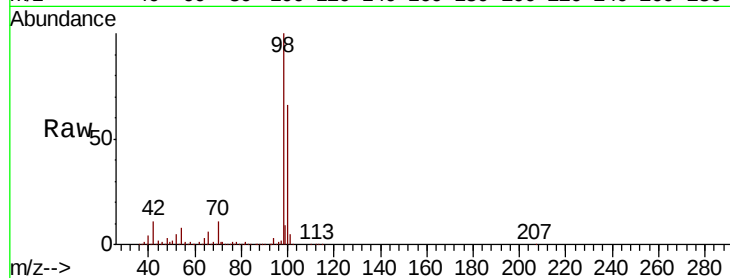
ClientSampleId :

Tot Ion: 98 Resp: 1126329

Ion Ratio Lower Upper

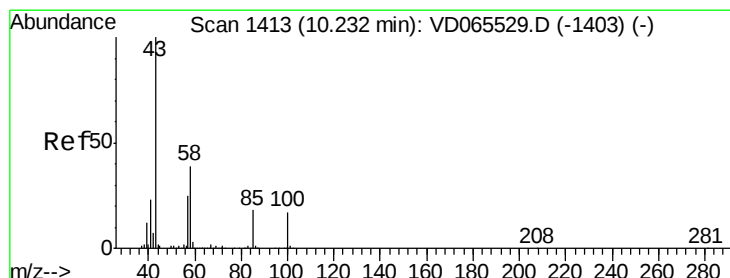
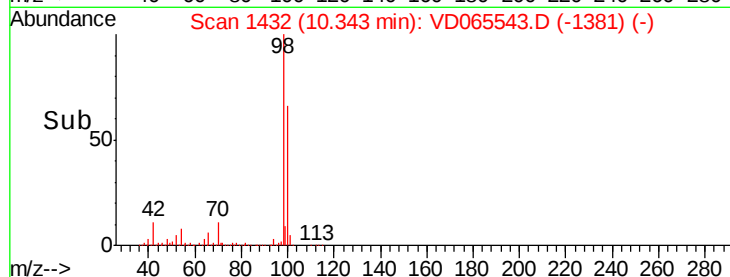
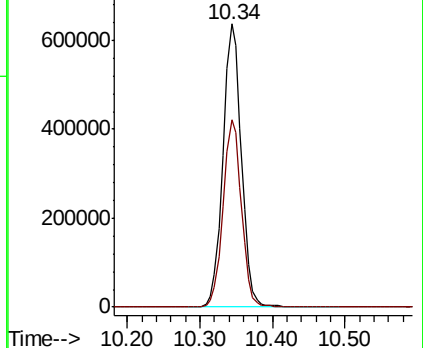
98 100

100 65.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.638 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.11 min

Lab File: VD065543.D

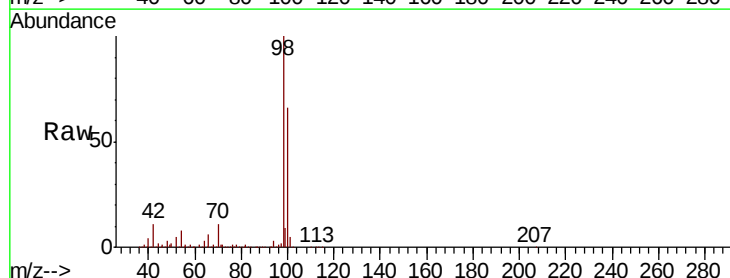
Acq: 27 Mar 2020 14:46

Tgt Ion: 43 Resp: 4850

Ion Ratio Lower Upper

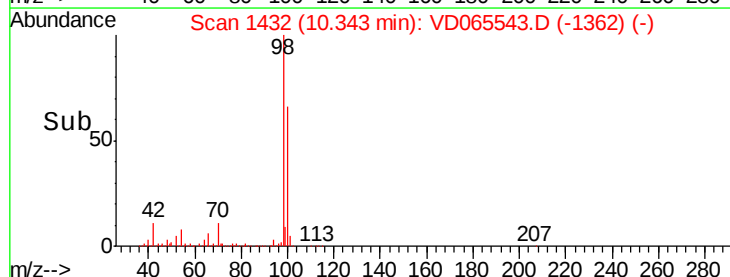
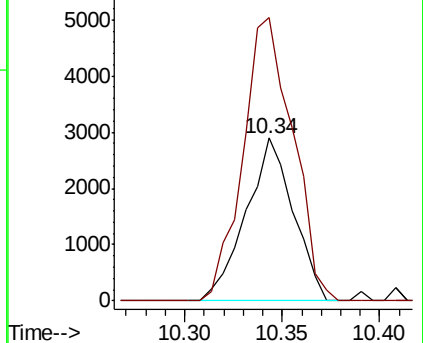
43 100

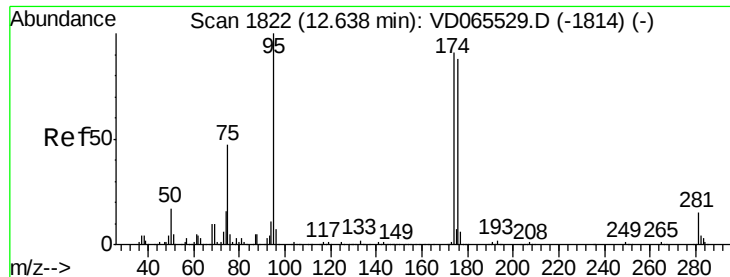
58 183.9 31.4 47.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

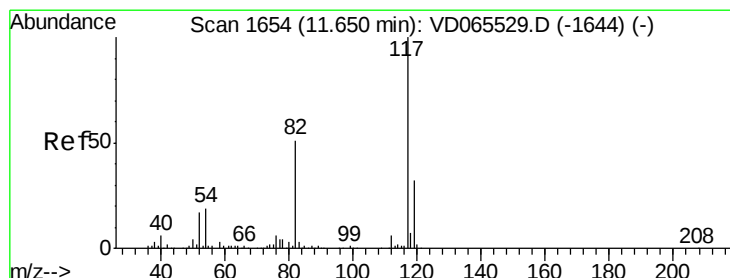
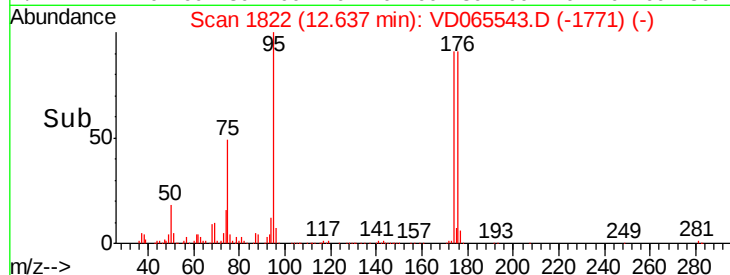
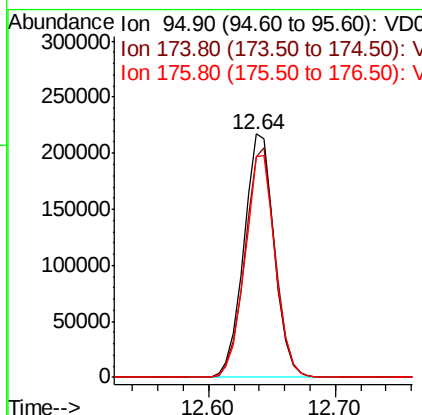
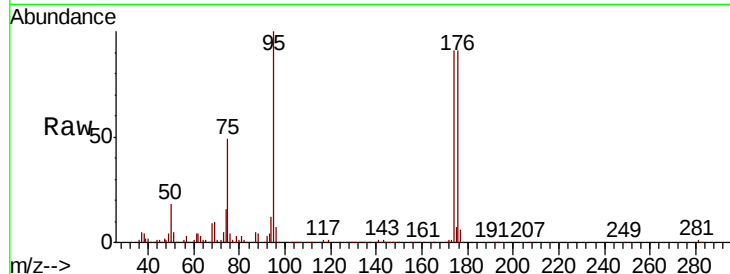




#62
4-Bromofluorobenzene
Concen: 53.211 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065543.D
Acq: 27 Mar 2020 14:46

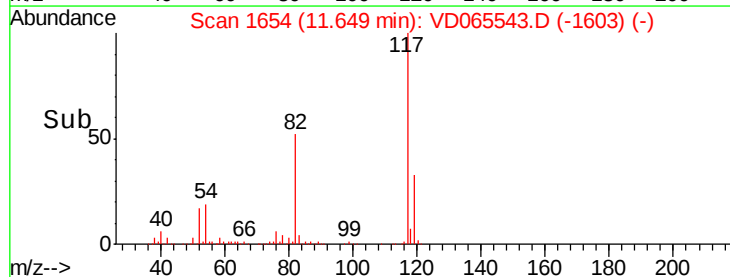
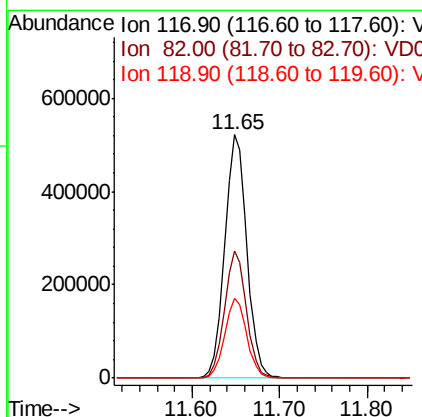
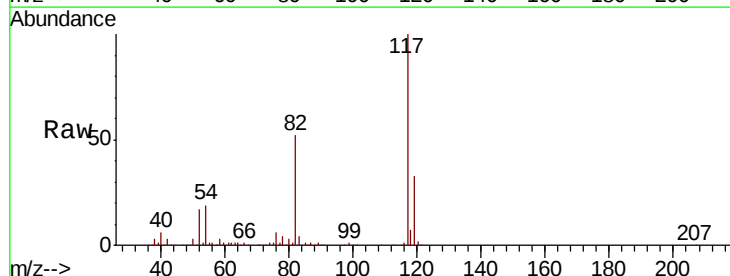
Instrument :
MSVOA_D
ClientSampleId :

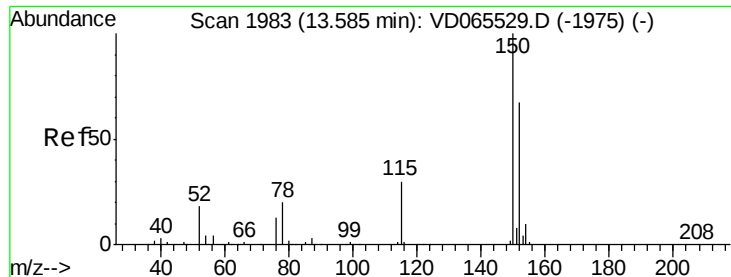
Tot Ion	Ratio	Lower	Upper
95	100		
174	93.7	0.0	183.8
176	91.0	0.0	178.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065543.D
Acq: 27 Mar 2020 14:46

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.0	41.0	61.6
119	32.7	25.5	38.3



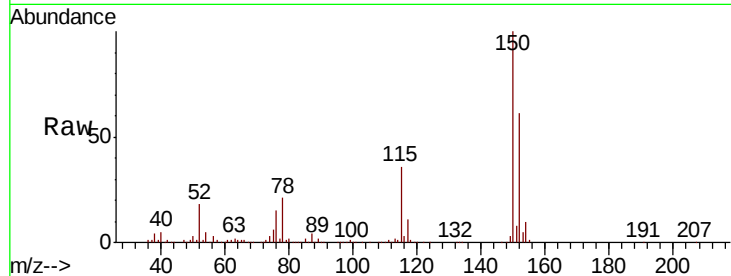


#72

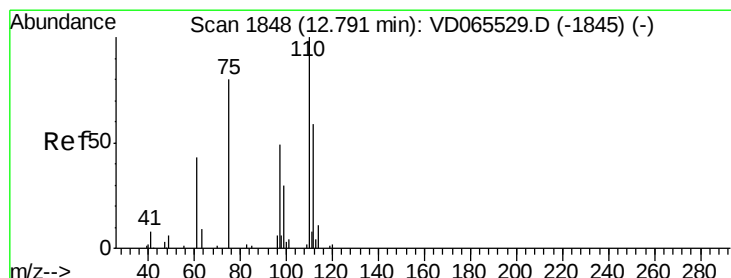
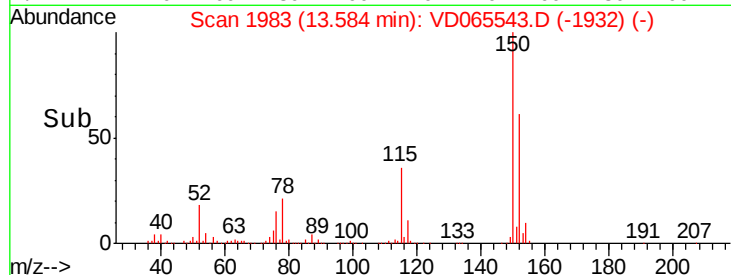
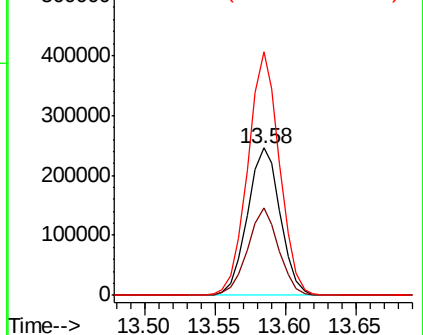
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065543.D
Acq: 27 Mar 2020 14:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 402021
Ion Ratio Lower Upper
152 100
115 55.9 27.2 81.6
150 158.7 0.0 340.2



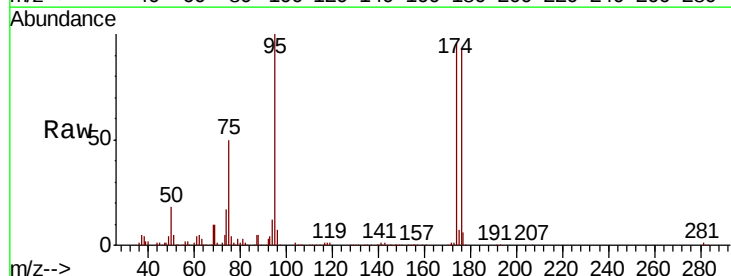
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



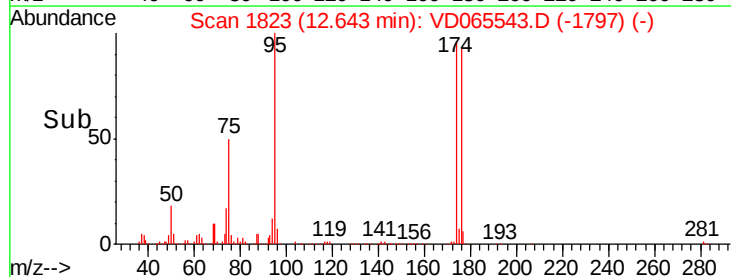
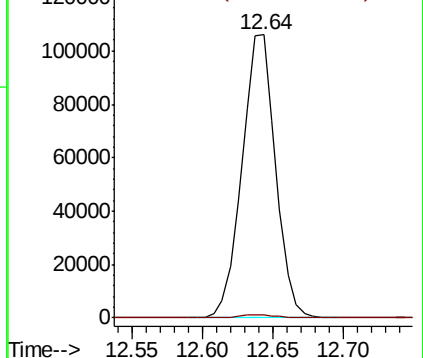
#76

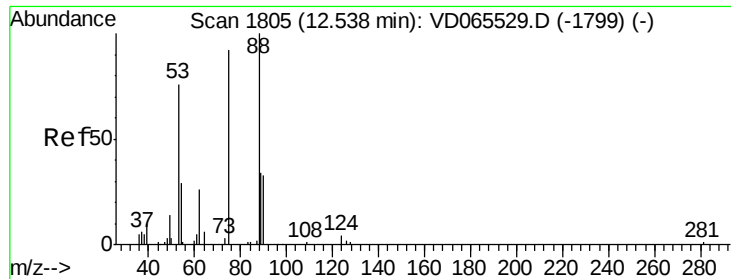
1,2,3-Trichloropropane
Concen: 56.975 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. -0.15 min
Lab File: VD065543.D
Acq: 27 Mar 2020 14:46

Tgt Ion: 75 Resp: 176097
Ion Ratio Lower Upper
75 100
77 1.2 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: 127.179 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

Instrument :

MSVOA_D

ClientSampleId :

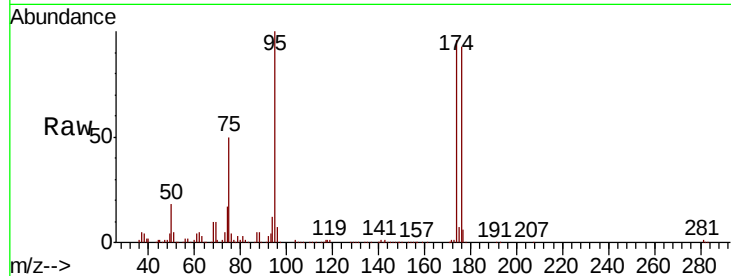
Tot Ion: 75 Resp: 176097

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

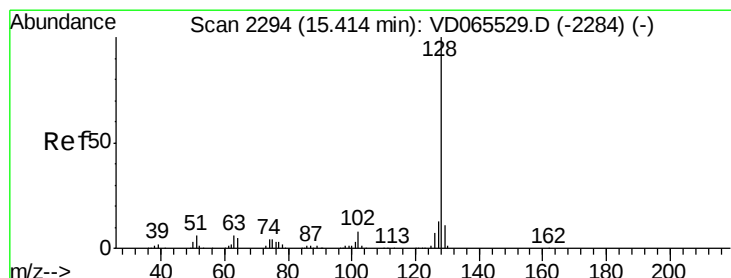
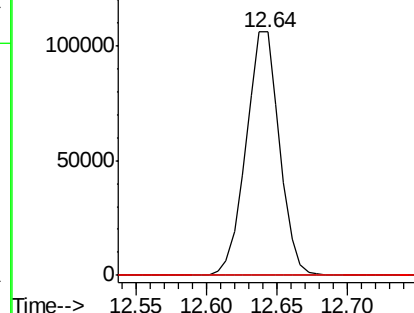
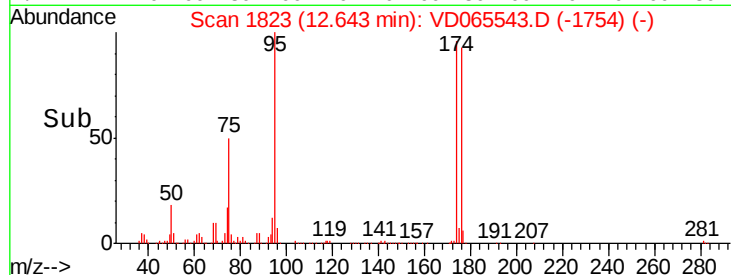
89 0.0 36.9 55.3#



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: 4.381 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065543.D

Acq: 27 Mar 2020 14:46

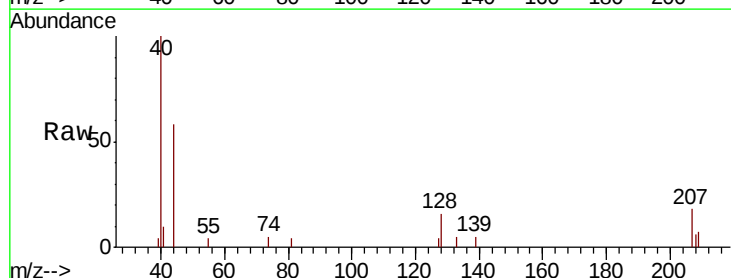
Tgt Ion:128 Resp: 798

Ion Ratio Lower Upper

128 100

127 7.4 10.4 15.6#

129 0.0 8.7 13.1#



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

