

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022620\
 Data File : VD065322.D
 Acq On : 26 Feb 2020 12:26
 Operator : VA/SY
 Sample : L1676-05
 Misc : 5.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 27 08:01:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

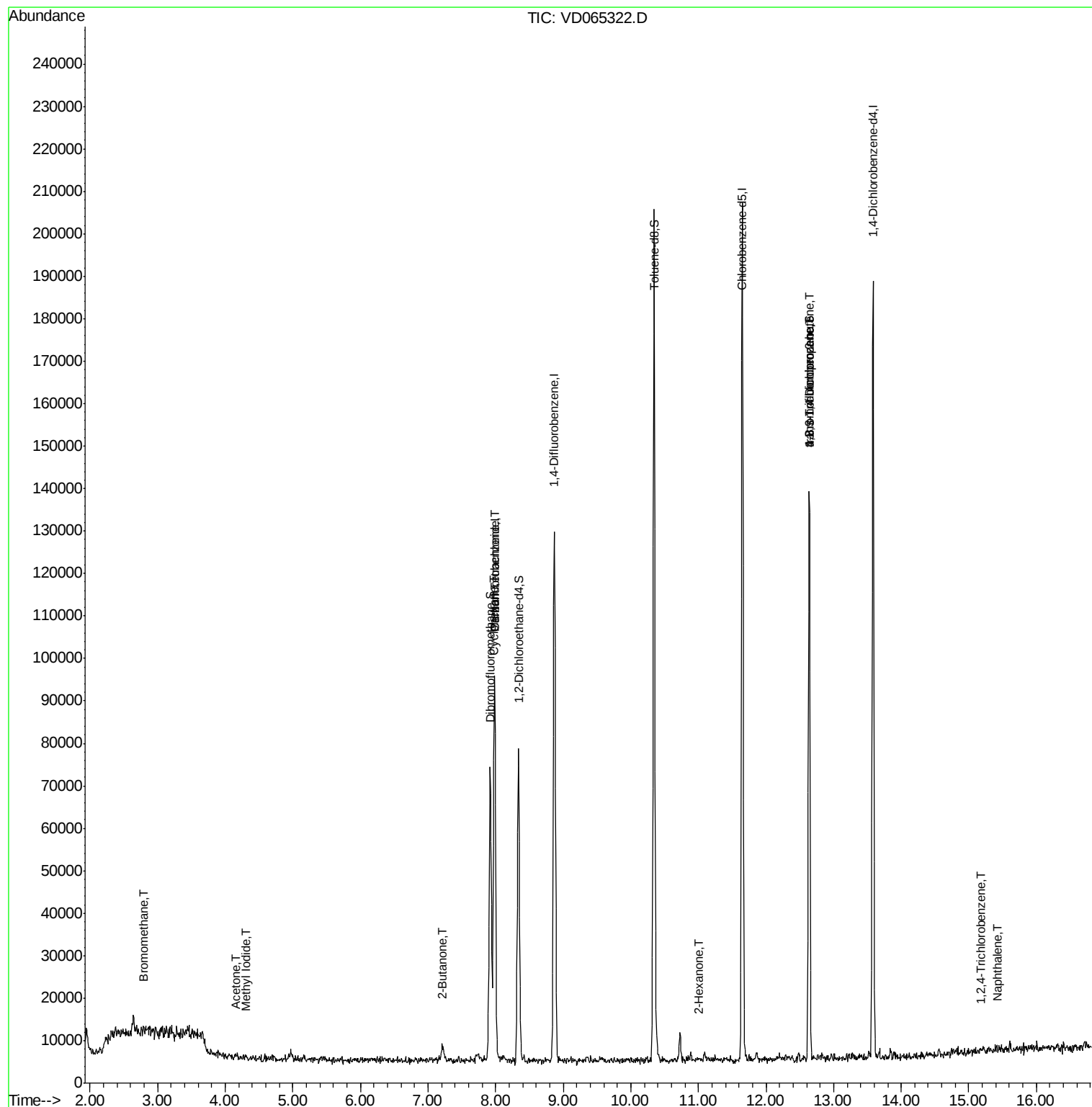
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	68405	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	109171	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	116023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	51955	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	56734	92.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	184.38%	
35) Dibromofluoromethane	7.92	113	48245	72.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	144.96%	
50) Toluene-d8	10.34	98	136663	53.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.40%	
62) 4-Bromofluorobenzene	12.64	95	43572	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.80	94	1180	2.628	ug/l	83
10) Methyl Iodide	4.31	142	750	1.076	ug/l #	64
13) Acrolein	3.91	56	130	Below Cal	#	14
16) Acetone	4.16	43	1423	9.460	ug/l #	42
20) Methylene Chloride	4.96	84	808	Below Cal	#	70
25) 2-Butanone	7.21	43	233	1.224	ug/l #	49
31) Cyclohexane	7.97	56	1468	1.213	ug/l #	40
38) Carbon Tetrachloride	7.99	117	6745	6.238	ug/l #	12
59) 2-Hexanone	11.00	43	471	1.604	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	21585	48.830	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	21585	105.431	ug/l #	11
93) 1,2,4-Trichlorobenzene	15.18	180	929	1.002	ug/l #	72
95) Naphthalene	15.41	128	1696	1.125	ug/l #	80

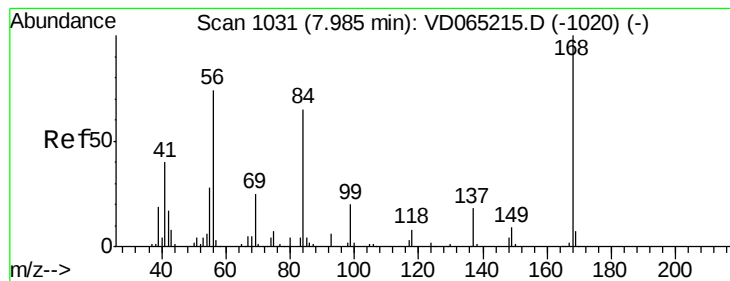
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

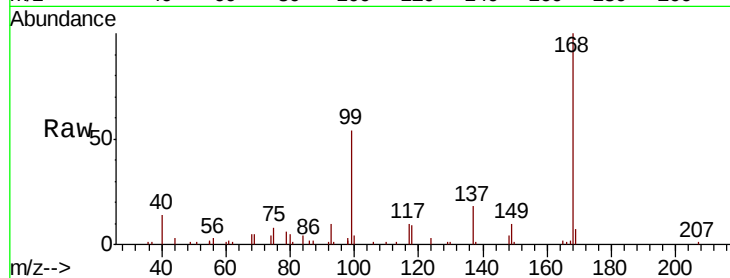
ClientSampleId :

Tot Ion:168 Resp: 68405

Ion Ratio Lower Upper

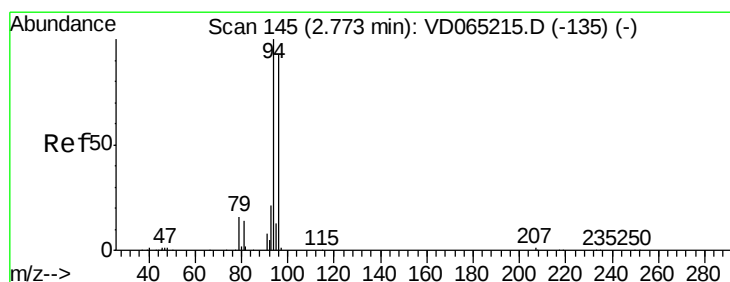
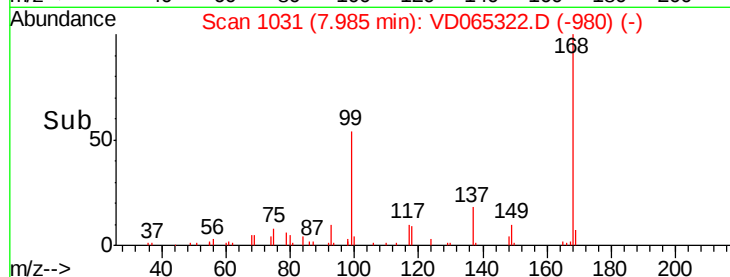
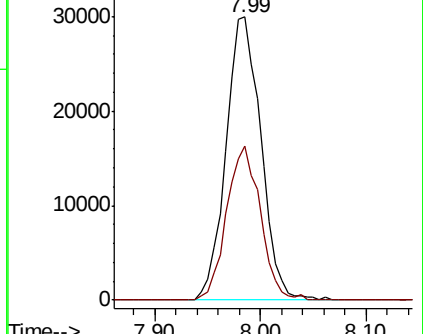
168 100

99 54.3 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: 2.628 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD065322.D

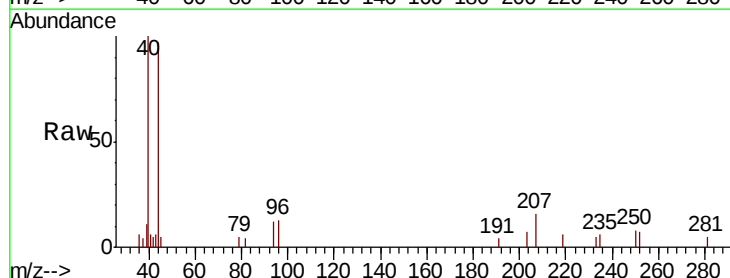
Acq: 26 Feb 2020 12:26

Tgt Ion: 94 Resp: 1180

Ion Ratio Lower Upper

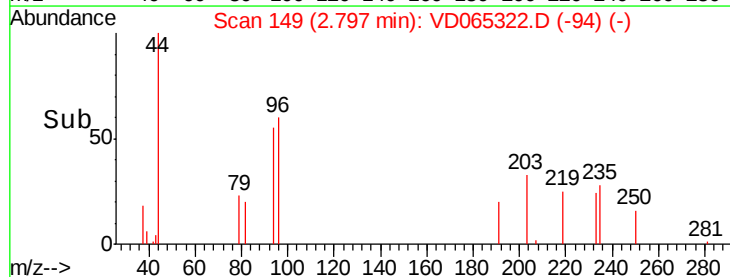
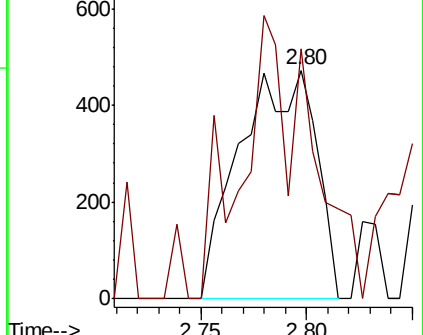
94 100

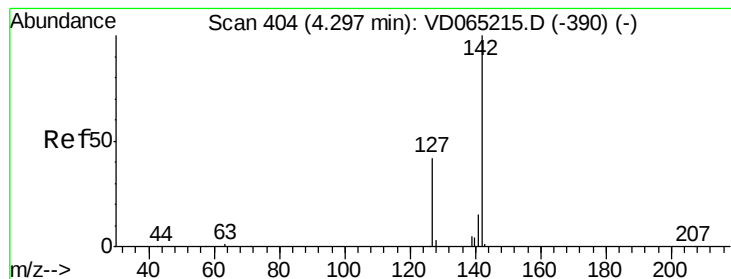
96 109.5 74.2 111.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#10

Methvl Iodide

Concen: 1.076 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.01 min

Lab File: VD065322.D

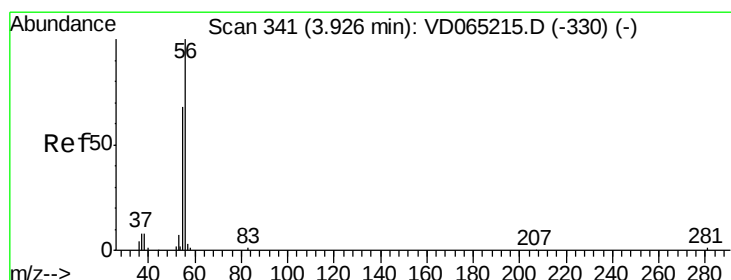
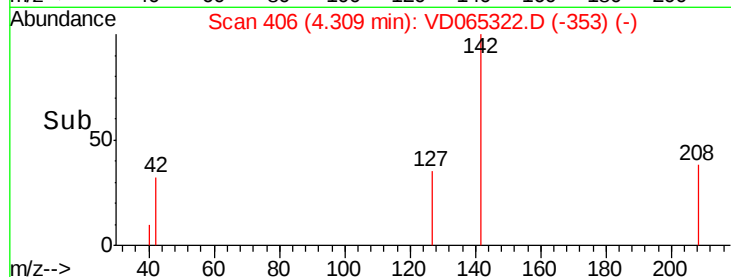
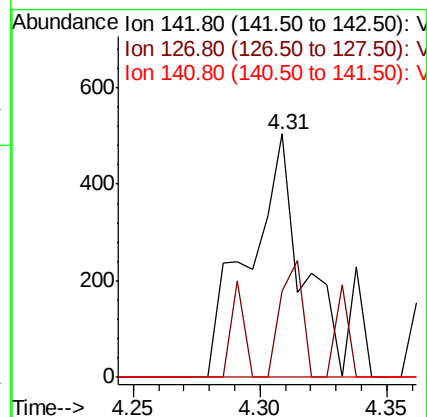
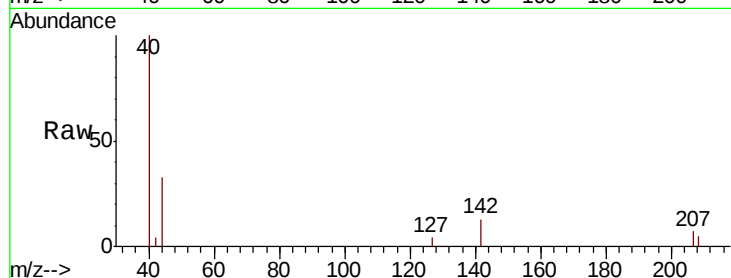
Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:	142	Resp:	750
Ion	Ratio	Lower	Upper
142	100		
127	19.7	33.8	50.8#
141	0.0	11.7	17.5#



#13

Acrolein

Concen: Below Cal

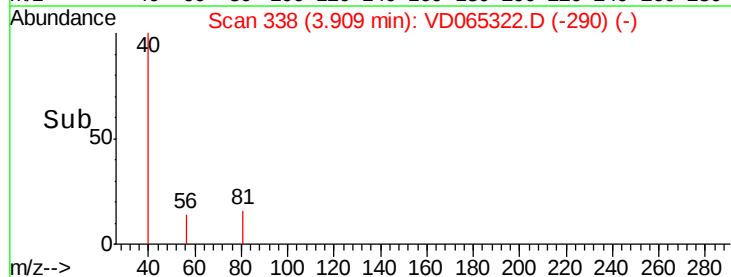
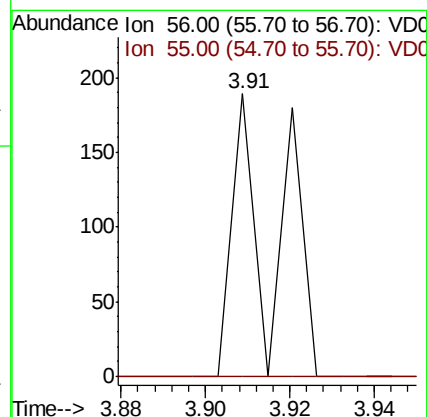
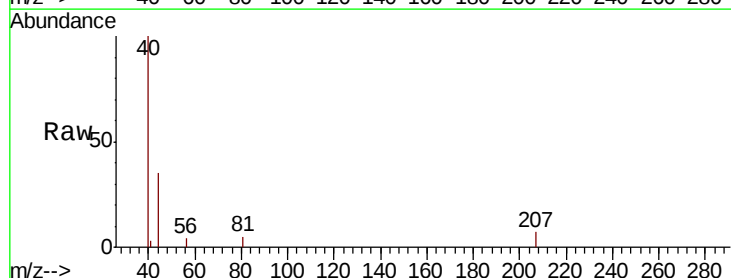
RT: 3.91 min Scan# 338

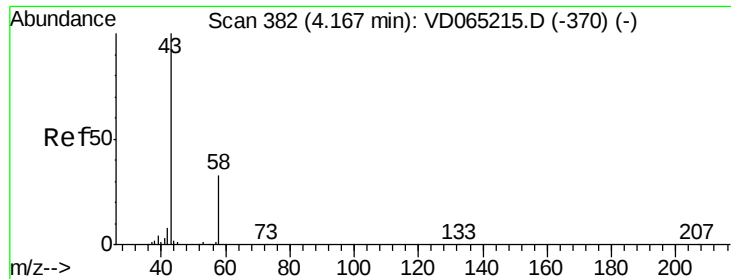
Delta R.T. -0.02 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Tgt Ion:	56	Resp:	130
Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.6	85.0#





#16

Acetone

Concen: 9.460 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

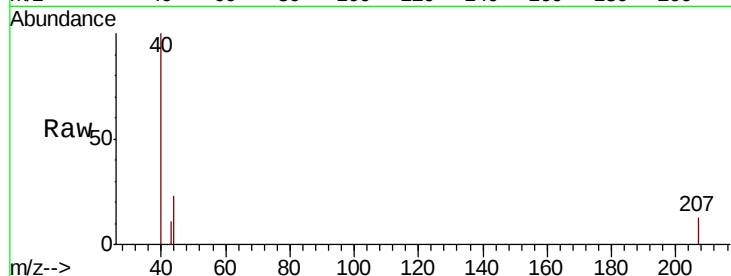
ClientSampled :

Tot Ion: 43 Resp: 1423

Ion Ratio Lower Upper

43 100

58 0.0 26.2 39.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

500

400

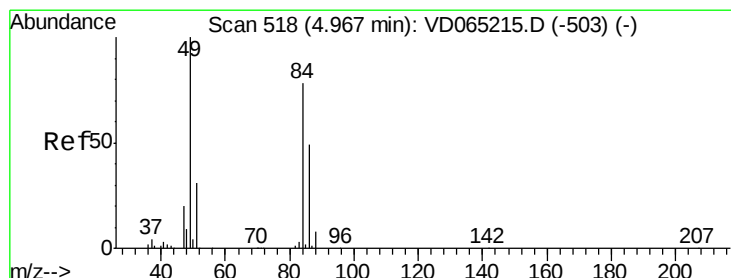
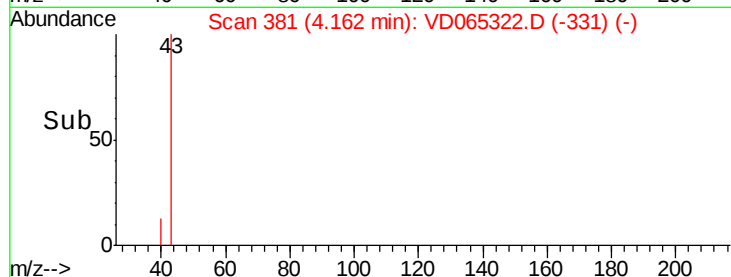
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Tgt Ion: 84 Resp: 808

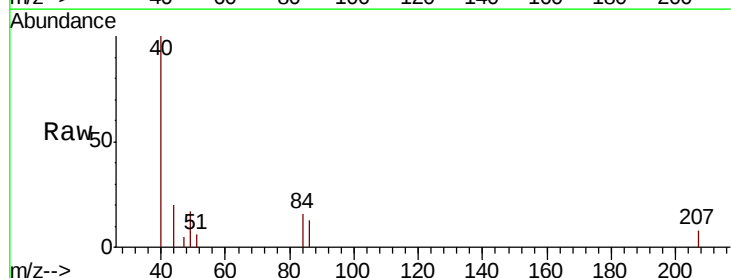
Ion Ratio Lower Upper

84 100

49 67.6 103.1 154.7#

51 39.6 31.7 47.5

86 60.9 50.9 76.3



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

1000

800

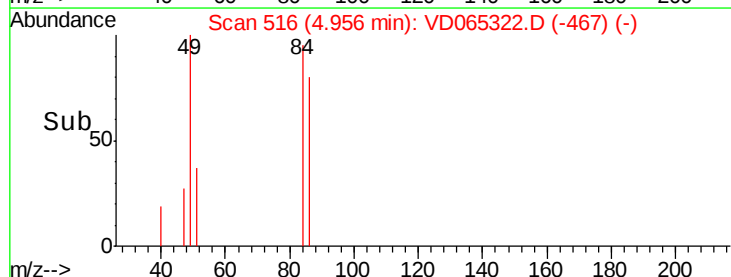
600

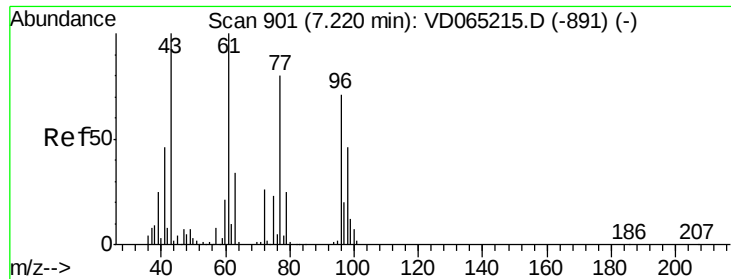
400

200

0

Time-->





#25

2-Butanone

Concen: 1.224 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

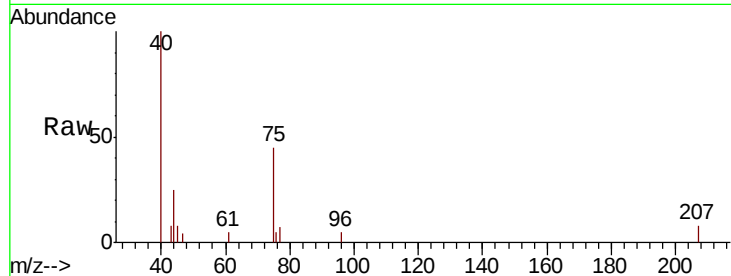
ClientSampleId :

Tot Ion: 43 Resp: 233

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.21

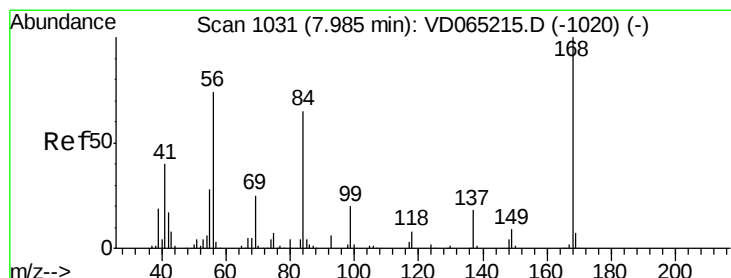
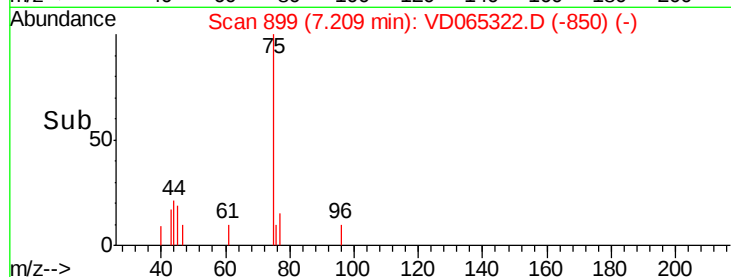
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.213 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

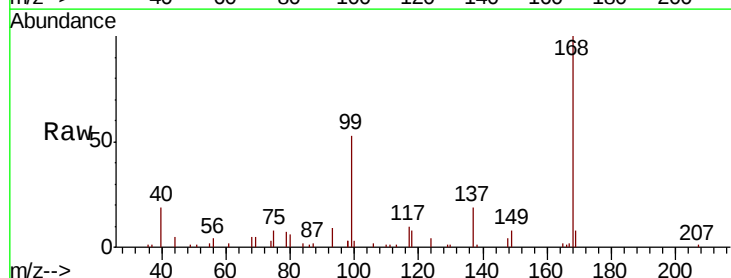
Tgt Ion: 56 Resp: 1468

Ion Ratio Lower Upper

56 100

69 118.6 27.4 41.0#

84 63.8 71.1 106.7#



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

2000

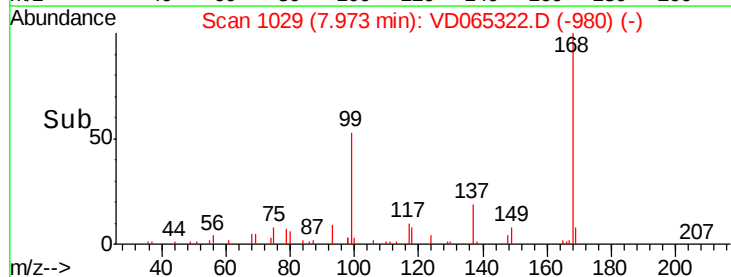
1500

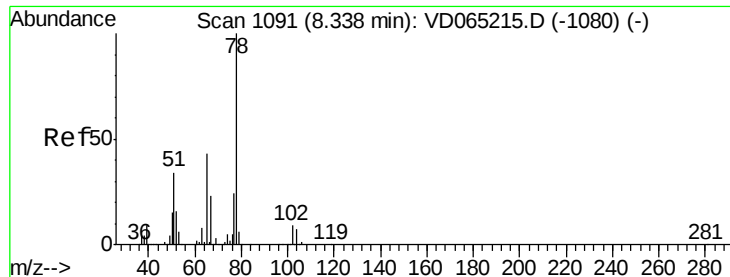
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 92.194 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

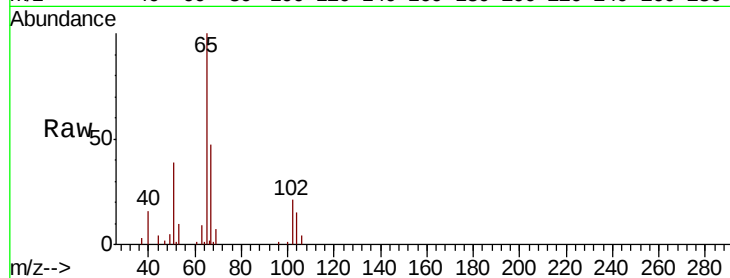
ClientSampleId :

Tot Ion: 65 Resp: 56734

Ion Ratio Lower Upper

65 100

67 54.0 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

25000

20000

15000

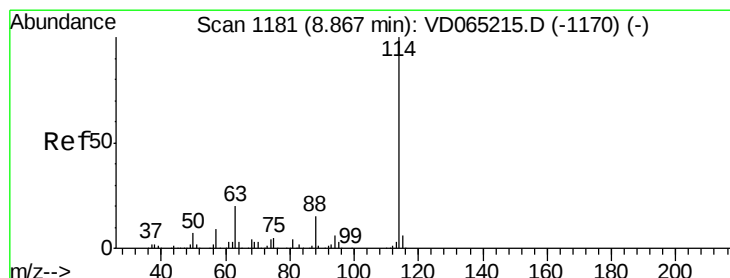
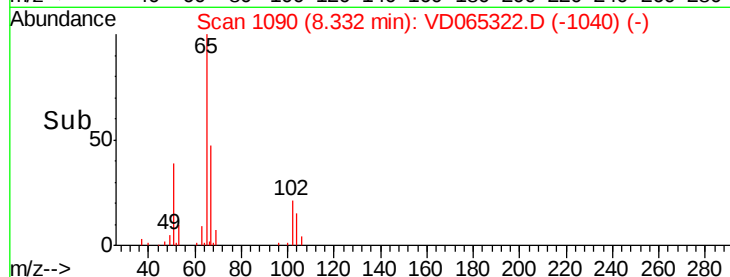
10000

5000

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. 0.00 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

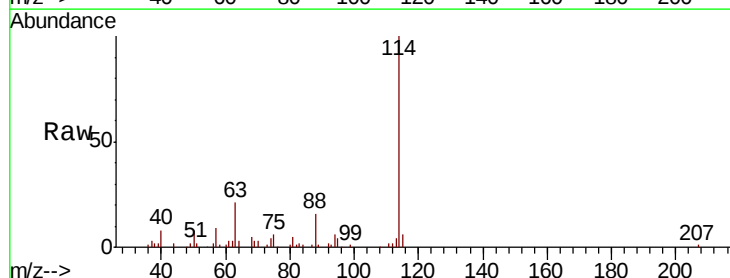
Tgt Ion: 114 Resp: 109171

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.4

88 16.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

60000

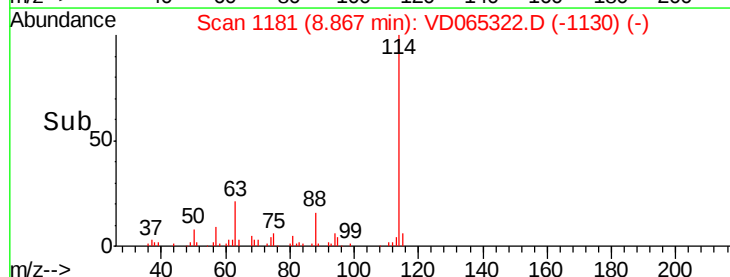
40000

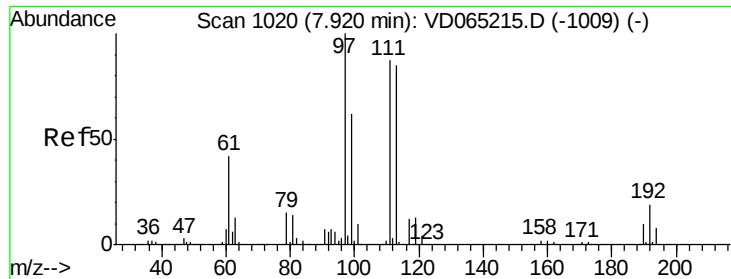
20000

0

8.80 8.90

Time-->

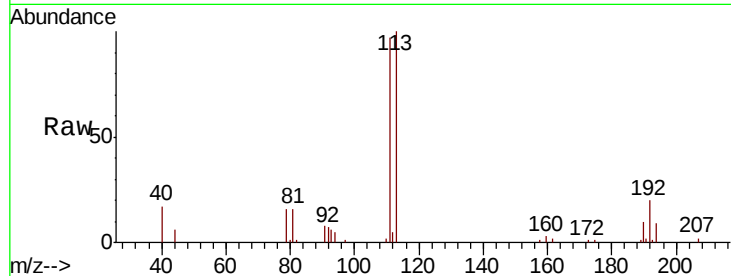




#35
 Dibromofluoromethane
 Concen: 72.477 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065322.D
 Acq: 26 Feb 2020 12:26

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	21.8	17.3	25.9

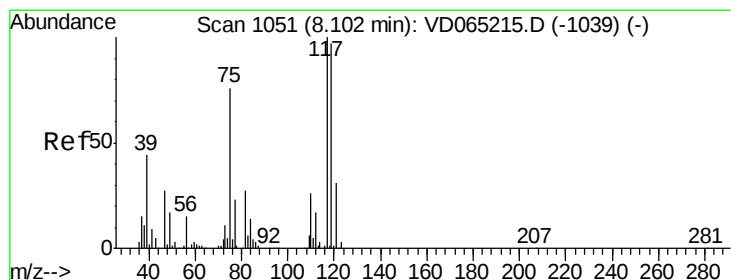
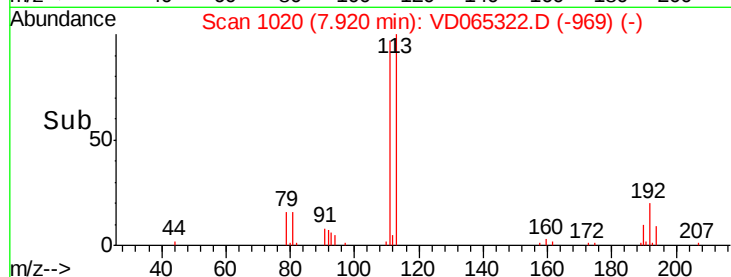
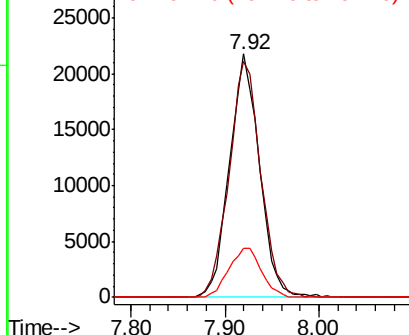


Abundance

Ion 112.80 (112.50 to 113.50): V

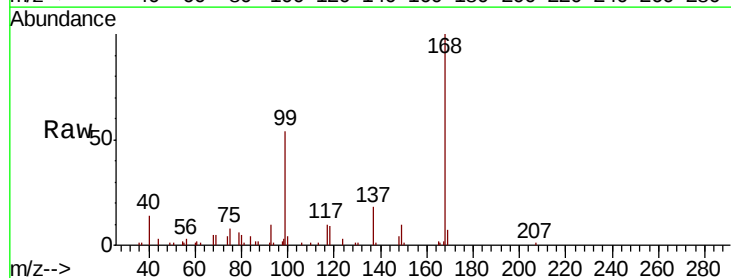
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#38
 Carbon Tetrachloride
 Concen: 6.238 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.12 min
 Lab File: VD065322.D
 Acq: 26 Feb 2020 12:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.6	116.4#
121	0.0	24.8	37.2#

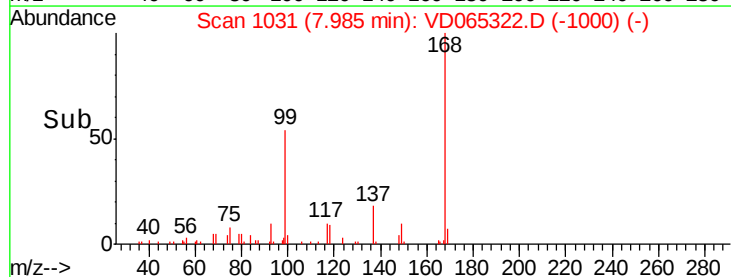
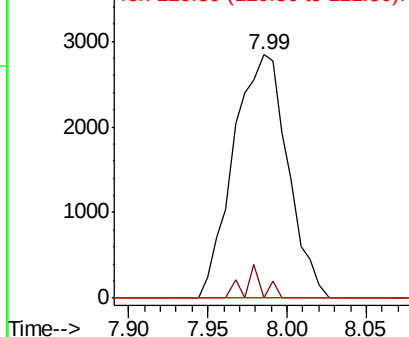


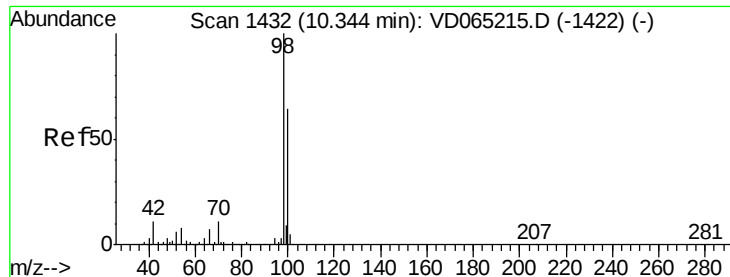
Abundance

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

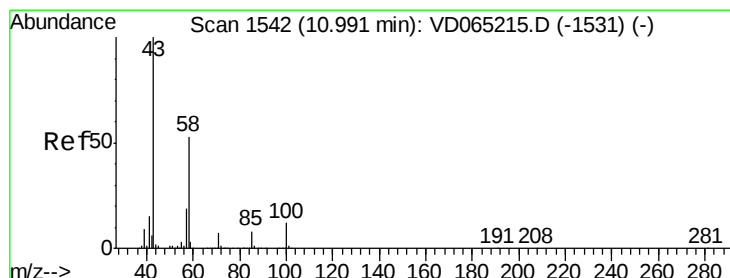
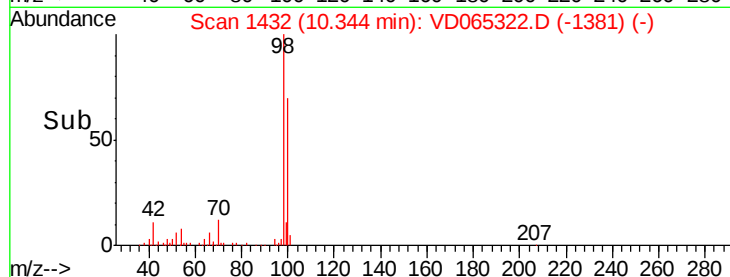
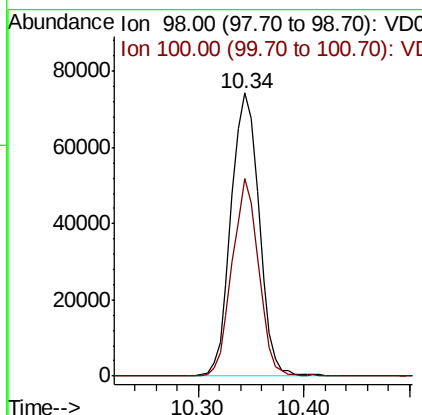
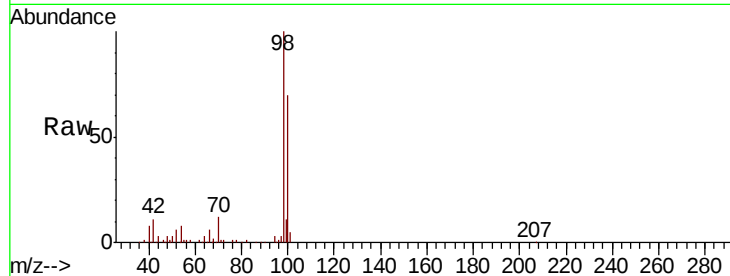




#50
Toluene-d8
Concen: 53.704 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065322.D
Acq: 26 Feb 2020 12:26

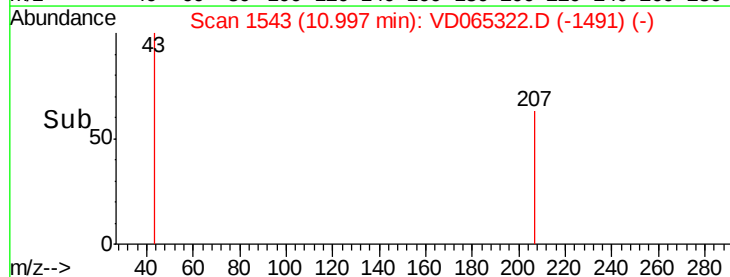
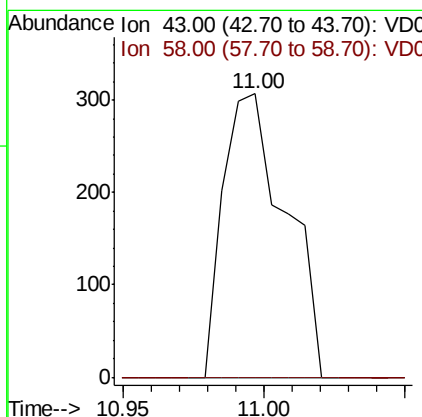
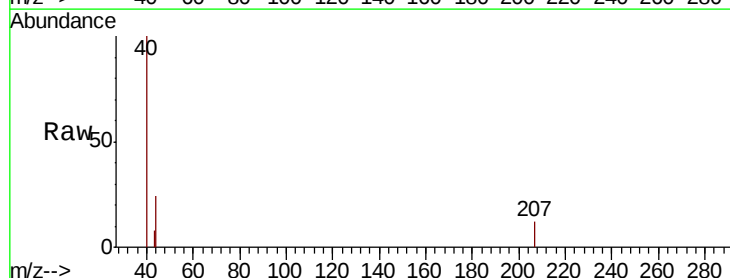
Instrument :
MSVOA_D
ClientSampleId :

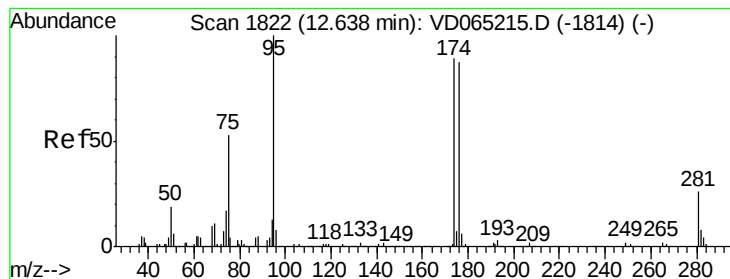
Tot Ion: 98 Resp: 136663
Ion Ratio Lower Upper
98 100
100 65.7 52.0 78.0



#59
2-Hexanone
Concen: 1.604 ug/l
RT: 11.00 min Scan# 1543
Delta R.T. 0.01 min
Lab File: VD065322.D
Acq: 26 Feb 2020 12:26

Tgt Ion: 43 Resp: 471
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#





#62

4-Bromofluorobenzene

Concen: 54.049 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

ClientSampleId :

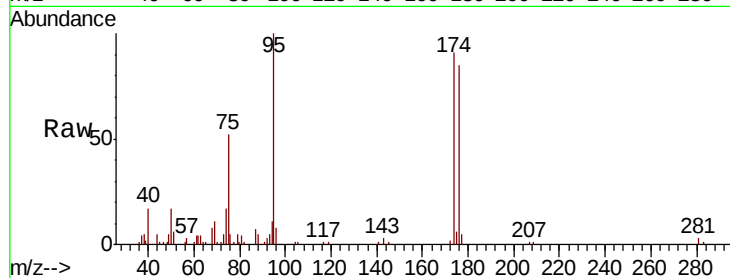
Tot Ion: 95 Resp: 43572

Ion Ratio Lower Upper

95 100

174 91.9 0.0 178.0

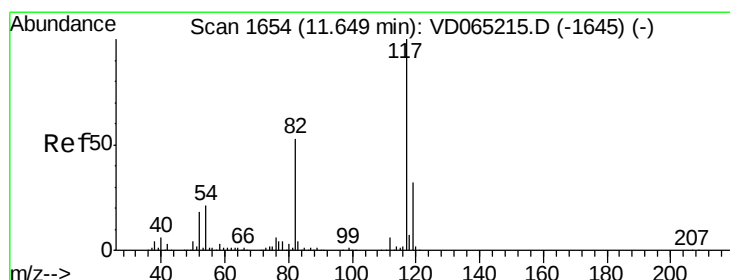
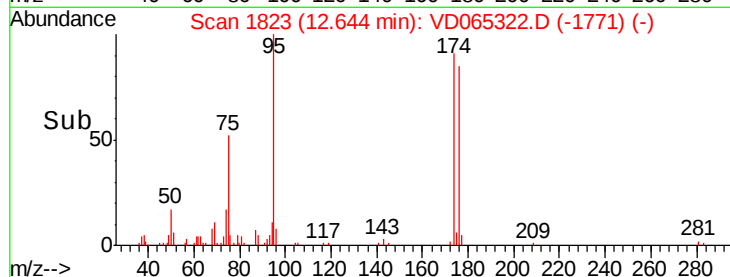
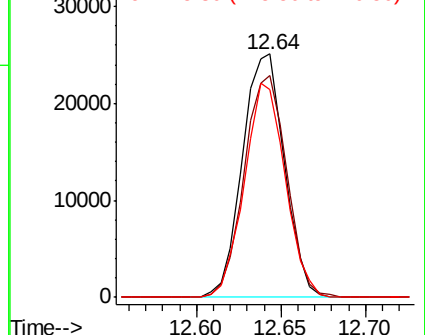
176 85.6 0.0 174.4



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: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

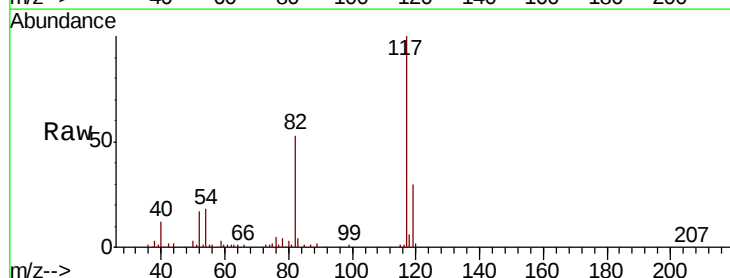
Tgt Ion: 117 Resp: 116023

Ion Ratio Lower Upper

117 100

82 53.0 42.7 64.1

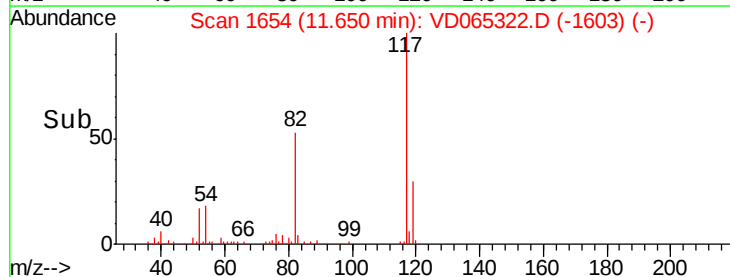
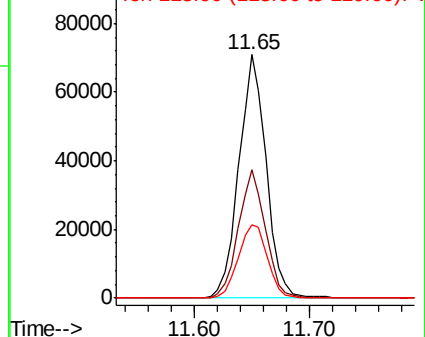
119 29.9 25.5 38.3

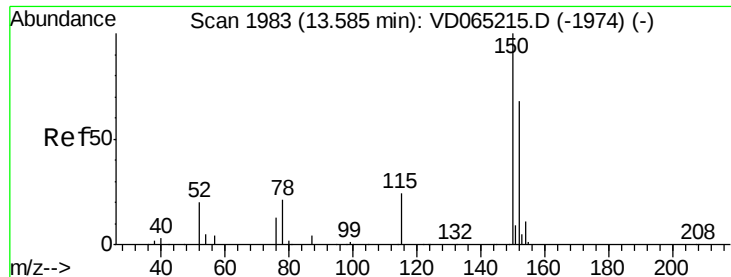


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1983

Delta R.T. 0.00 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

ClientSampleId :

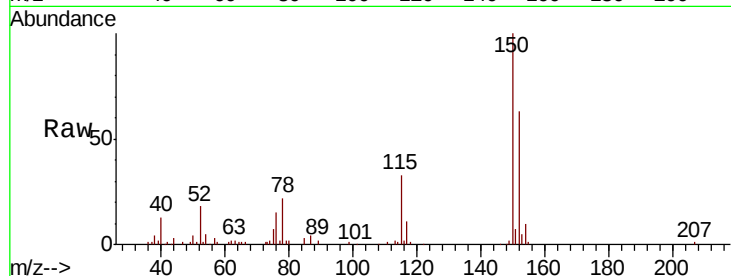
Tot Ion:152 Resp: 51955

Ion Ratio Lower Upper

152 100

115 57.4 27.6 82.8

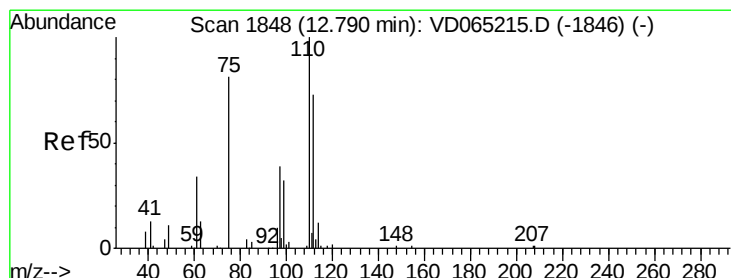
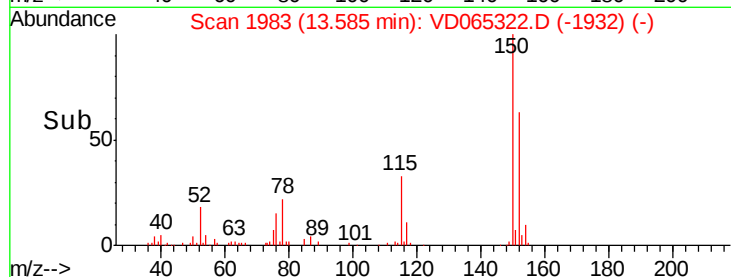
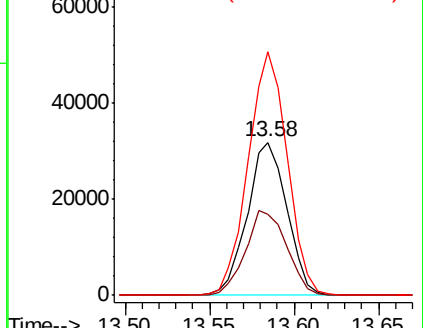
150 157.1 0.0 347.4



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: 48.830 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065322.D

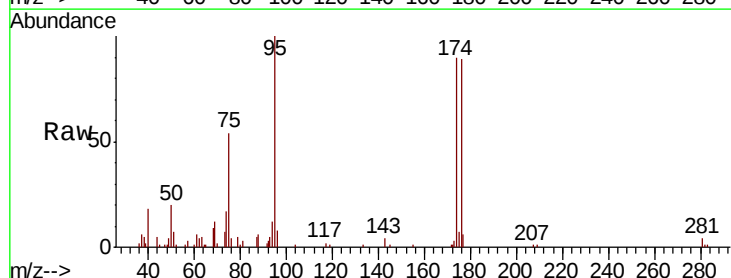
Acq: 26 Feb 2020 12:26

Tgt Ion: 75 Resp: 21585

Ion Ratio Lower Upper

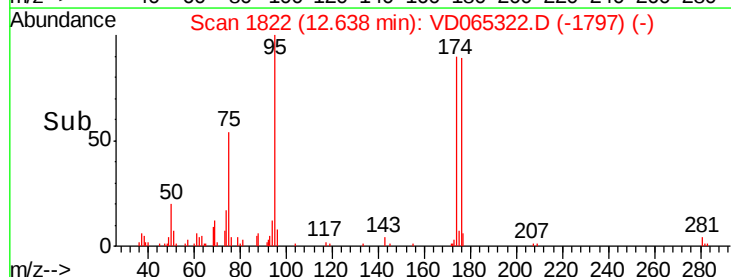
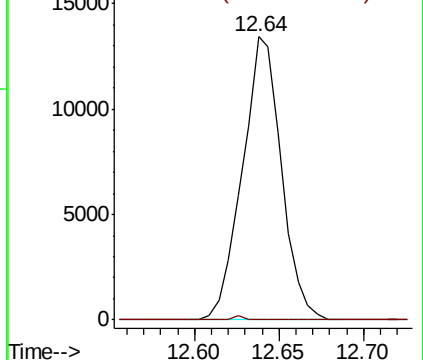
75 100

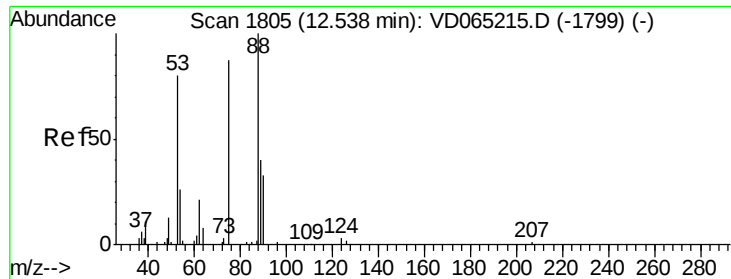
77 0.3 0.0 0.0#



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: 105.431 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

ClientSampleId :

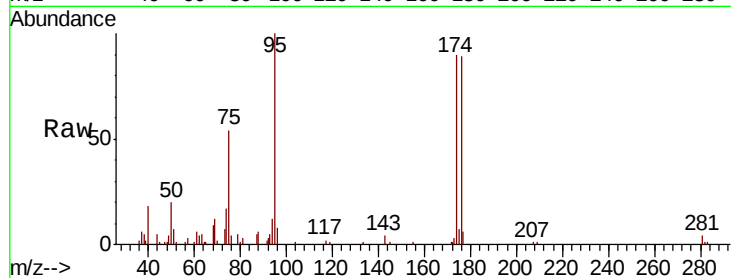
Tot Ion: 75 Resp: 21585

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

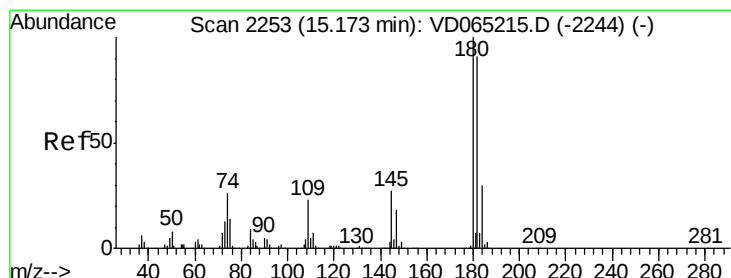
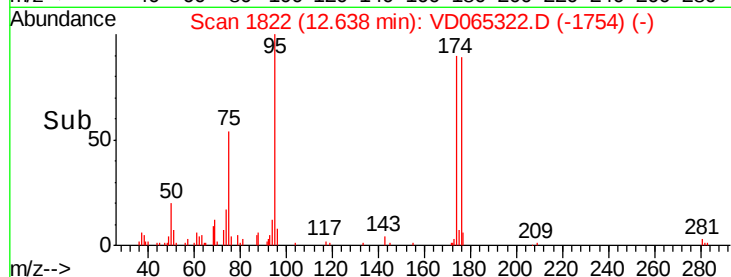
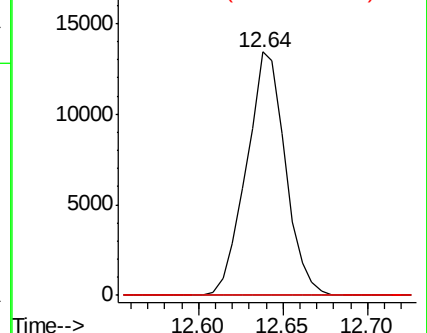
89 0.0 37.2 55.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 1.002 ug/l

RT: 15.18 min Scan# 2255

Delta R.T. 0.01 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

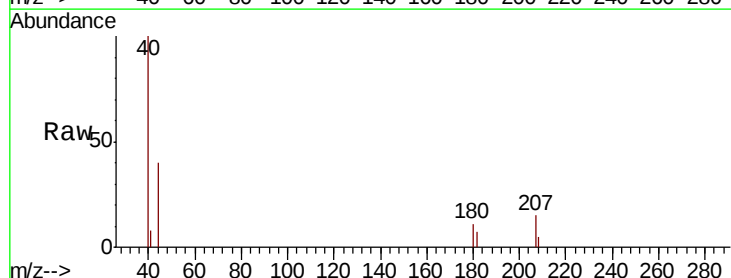
Tgt Ion:180 Resp: 929

Ion Ratio Lower Upper

180 100

182 69.8 46.9 140.6

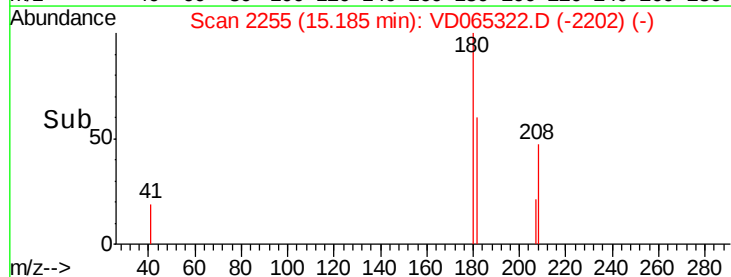
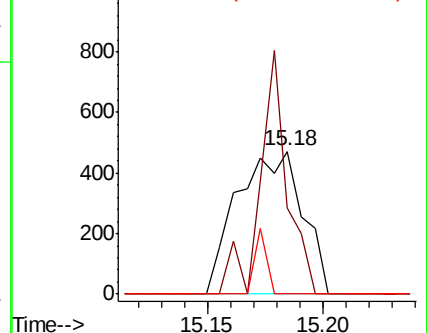
145 8.2 13.9 41.7#

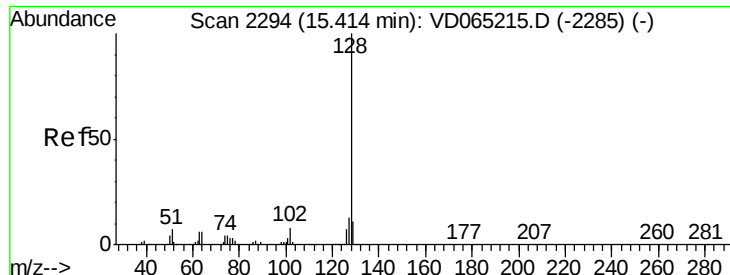


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Napthalene

Concen: 1.125 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065322.D

Acq: 26 Feb 2020 12:26

Instrument :

MSVOA_D

ClientSampleId :

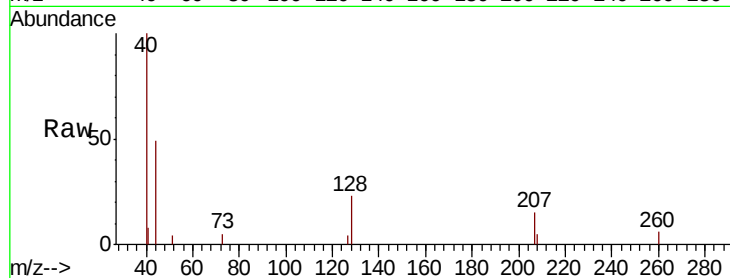
Tot Ion:128 Resp: 1696

Ion Ratio Lower Upper

128 100

127 8.0 10.3 15.5#

129 0.0 8.8 13.2#



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

