

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD031220\
 Data File : VD065489.D
 Acq On : 12 Mar 2020 17:49
 Operator : VA/SY
 Sample : L1912-11
 Misc : 6.99G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 Z3-S2-A

Quant Time: Mar 13 04:26:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	522701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	885259	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	870454	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	410498	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	263980	58.88	ug/l	0.00
Spiked Amount			Recovery	=	117.76%	
35) Dibromofluoromethane	7.92	113	288985	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
50) Toluene-d8	10.34	98	1078521	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	12.64	95	368491	56.83	ug/l	0.00
Spiked Amount			Recovery	=	113.66%	

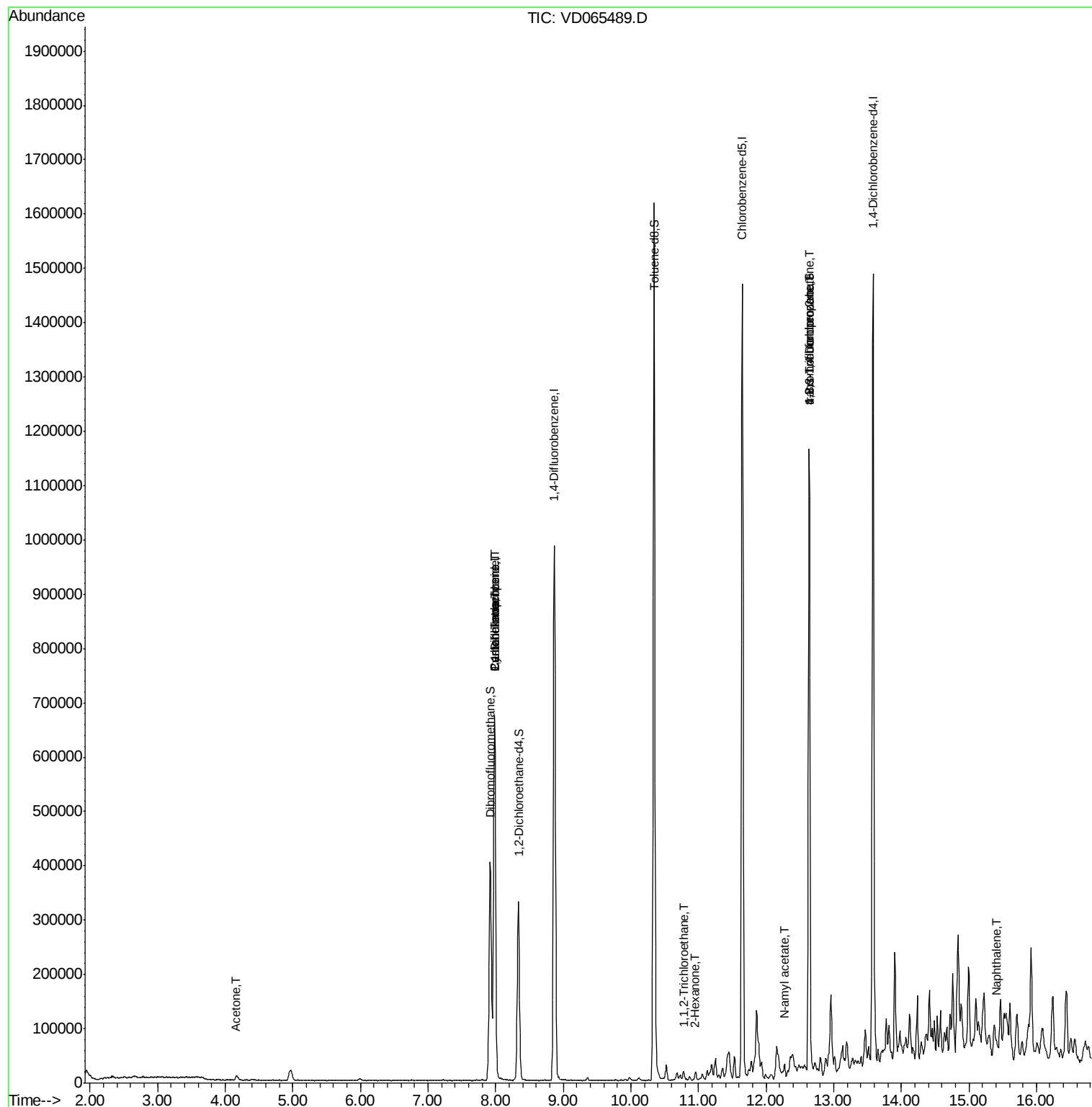
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	380	Below Cal	#	25
16) Acetone	4.16	43	14430	15.91	ug/l	98
20) Methylene Chloride	4.96	84	16741	Below Cal		93
31) Cyclohexane	7.98	56	9836	1.10	ug/l	# 8
36) 1,1-Dichloropropene	7.98	75	37722	4.45	ug/l	# 48
38) Carbon Tetrachloride	7.98	117	48239	5.48	ug/l	# 19
55) 1,1,2-Trichloroethane	10.78	97	6248	1.48	ug/l	# 21
59) 2-Hexanone	10.96	43	6493	3.08	ug/l	# 24
74) N-amyl acetate	12.27	43	5608	1.01	ug/l	# 58
76) 1,2,3-Trichloropropane	12.64	75	182690	56.40	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.64	75	182690	119.02	ug/l	# 14
95) Naphthalene	15.41	128	2352	4.57	ug/l	# 54

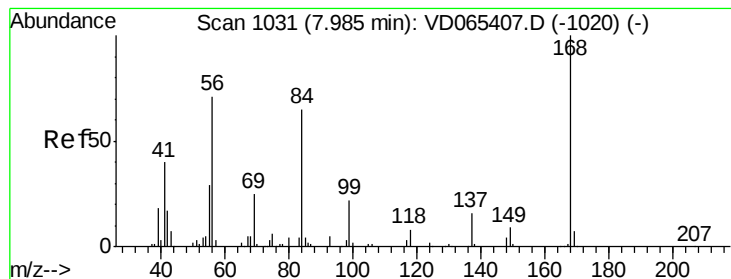
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD031220\
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QLast Update : Thu Mar 05 01:22:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Instrument :

MSVOA_D

ClientSampleId :

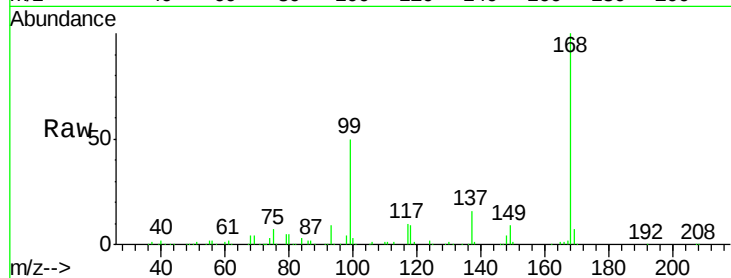
Z3-S2-A

Tgt Ion:168 Resp: 522701

Ion Ratio Lower Upper

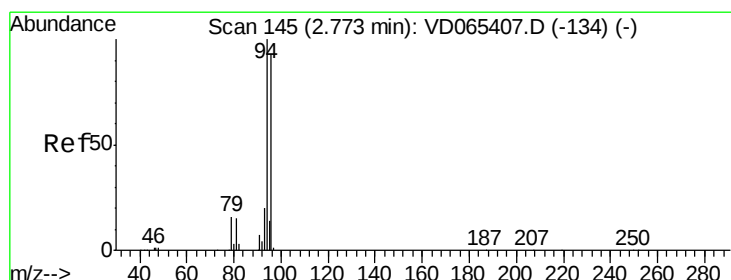
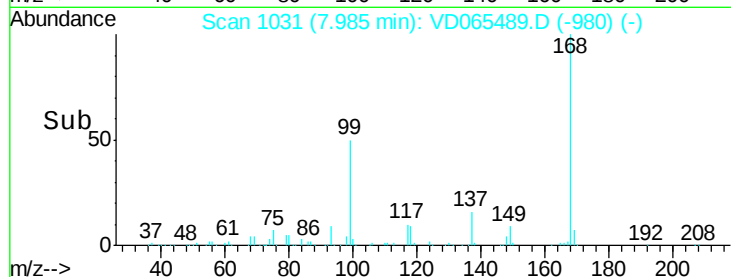
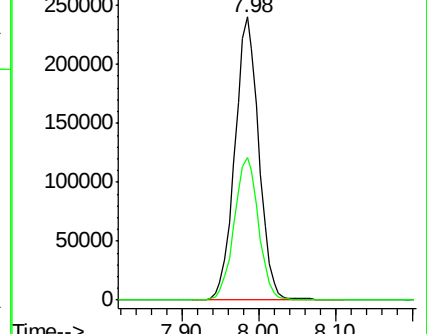
168 100

99 50.4 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065489.D

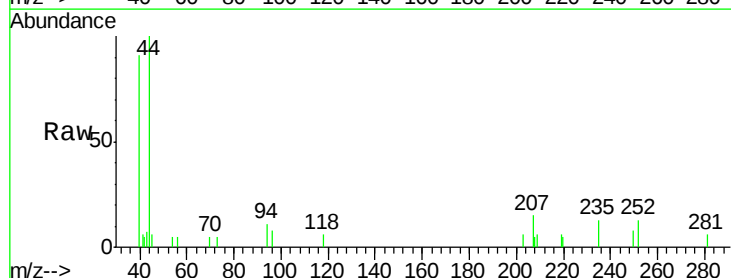
Acq: 12 Mar 2020 17:49

Tgt Ion: 94 Resp: 380

Ion Ratio Lower Upper

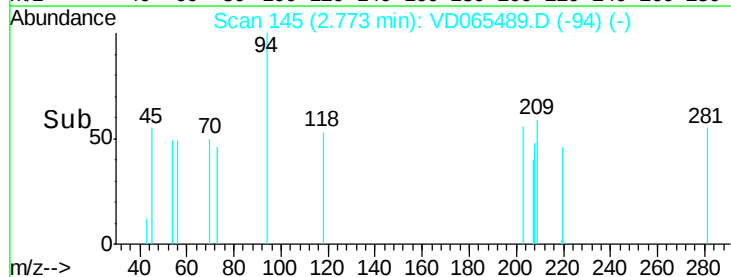
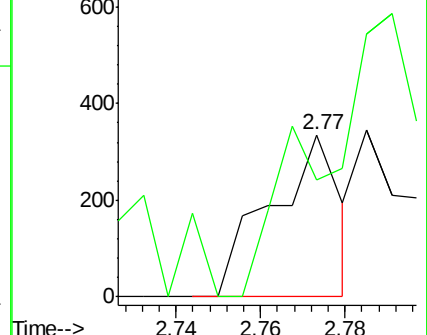
94 100

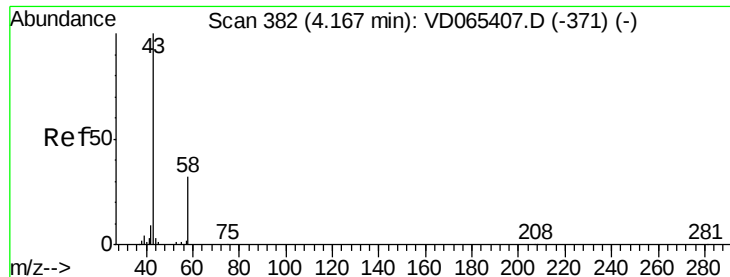
96 21.2 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 15.91 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Instrument :

MSVOA_D

ClientSampleId :

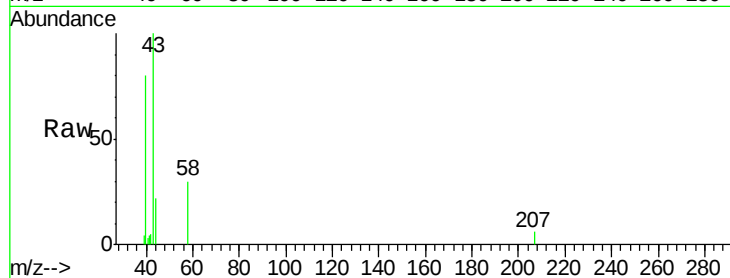
Z3-S2-A

Tgt Ion: 43 Resp: 14430

Ion Ratio Lower Upper

43 100

58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

6000

5000

4000

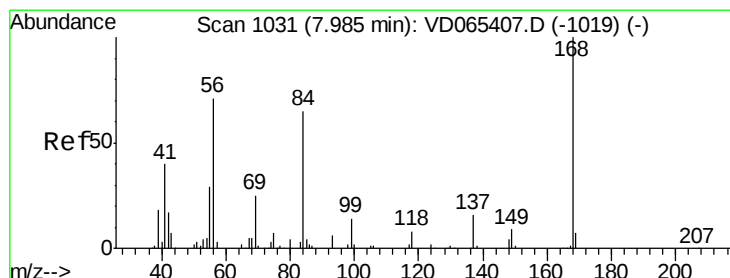
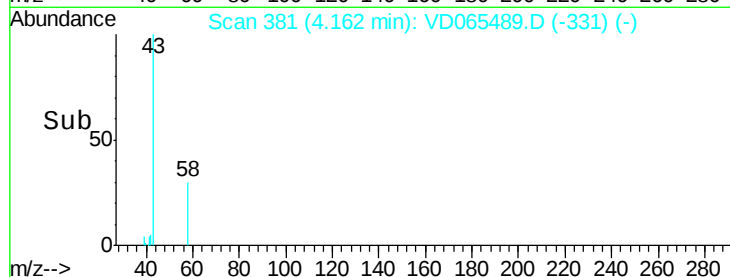
3000

2000

1000

0

Time-->



#31

Cyclohexane

Concen: 1.10 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

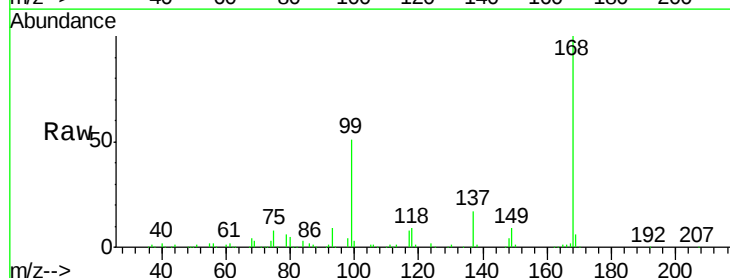
Tgt Ion: 56 Resp: 9836

Ion Ratio Lower Upper

56 100

69 156.7 28.3 42.5#

84 135.8 73.1 109.7#



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

12000

10000

8000

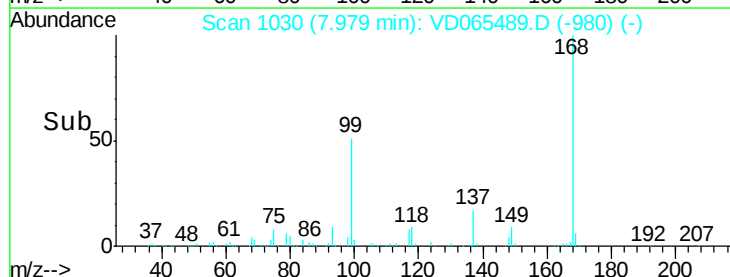
6000

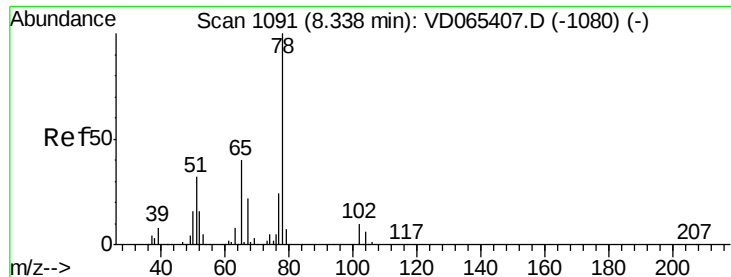
4000

2000

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Time-->

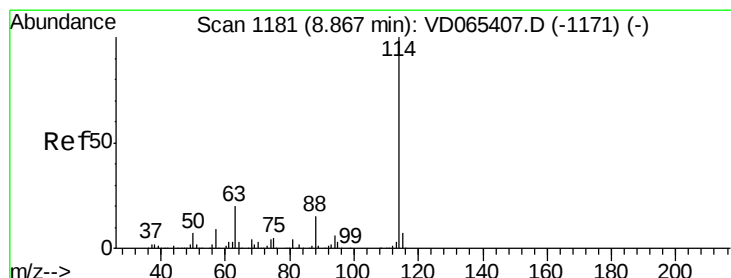
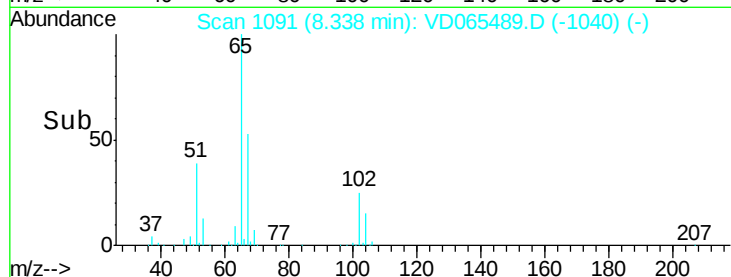
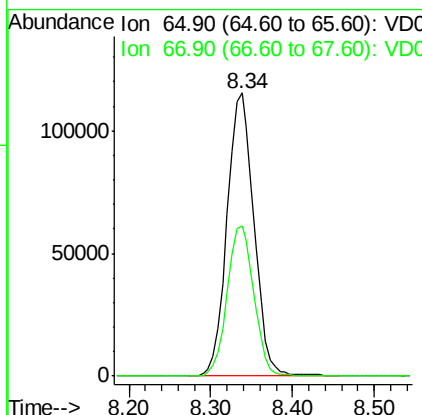
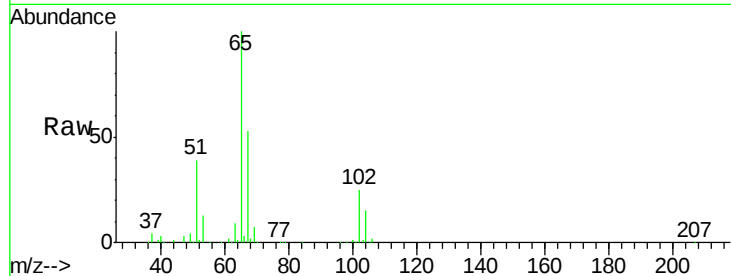




#33
 1,2-Dichloroethane-d4
 Concen: 58.88 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD065489.D
 Acq: 12 Mar 2020 17:49

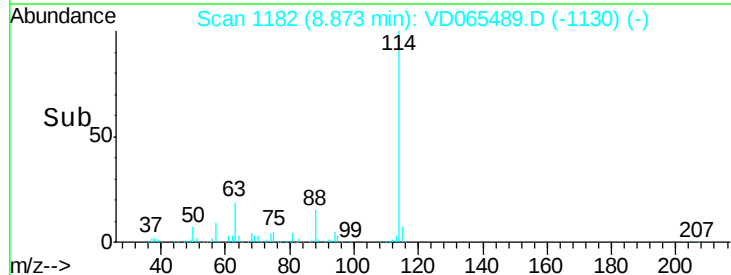
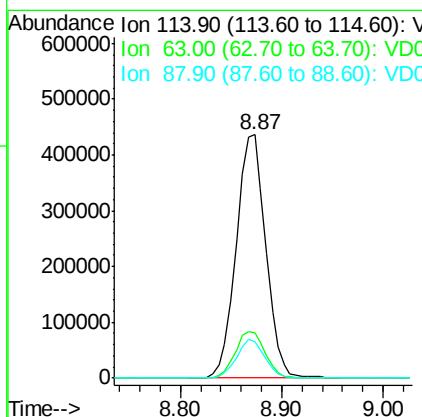
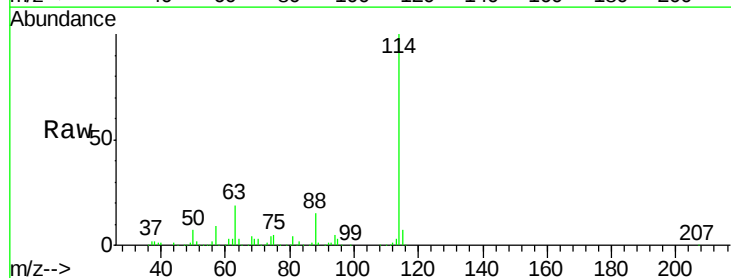
Instrument :
 MSVOA_D
 ClientSampleId :
 Z3-S2-A

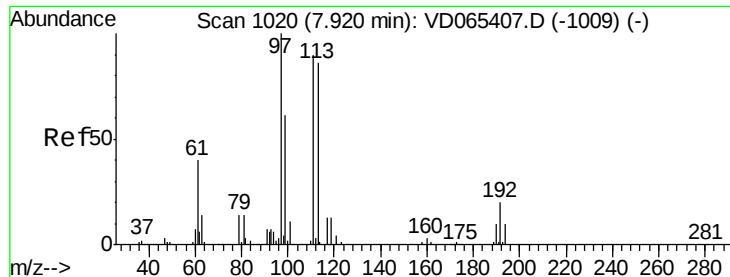
Tgt Ion: 65 Resp: 263980
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 108.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD065489.D
 Acq: 12 Mar 2020 17:49

Tgt Ion: 114 Resp: 885259
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.6
 88 14.9 0.0 30.4

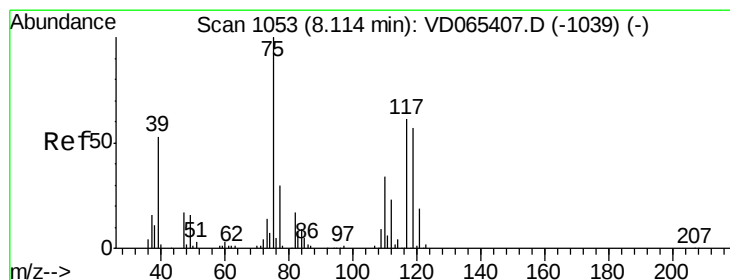
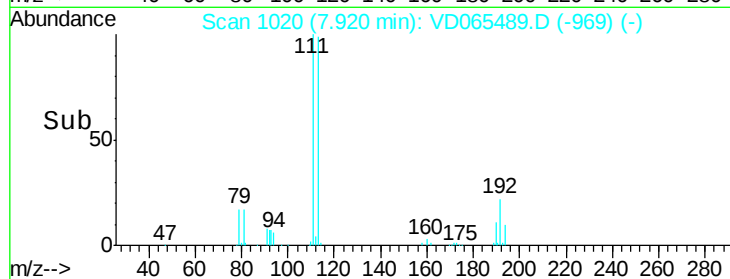
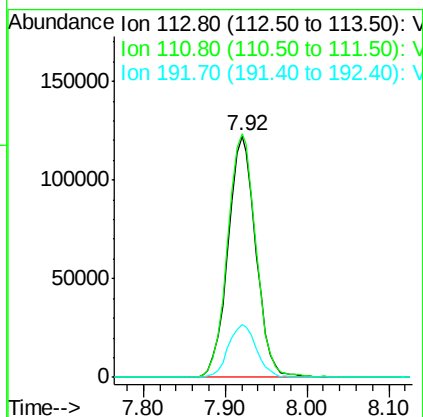
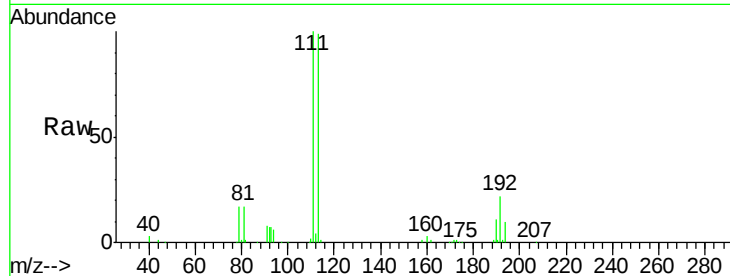




#35
 Dibromofluoromethane
 Concen: 52.79 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065489.D
 Acq: 12 Mar 2020 17:49

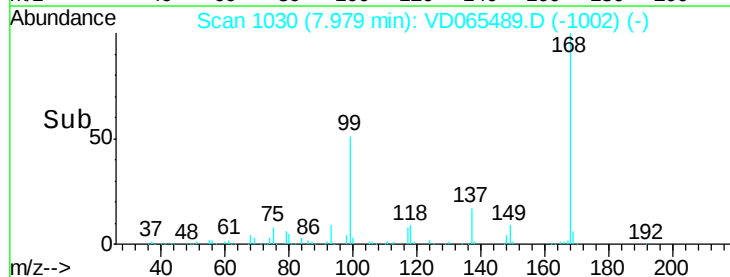
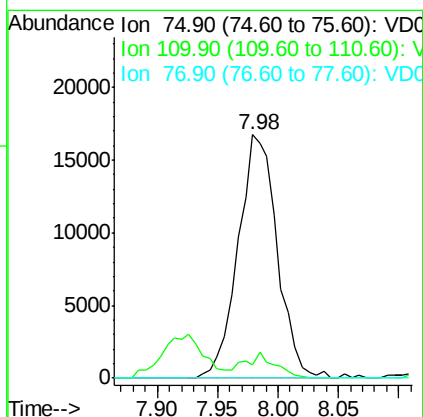
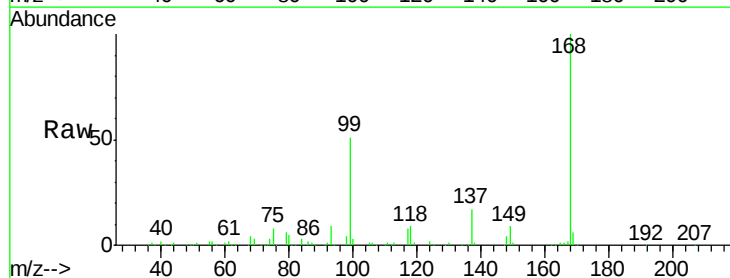
Instrument :
 MSVOA_D
 ClientSampleId :
 Z3-S2-A

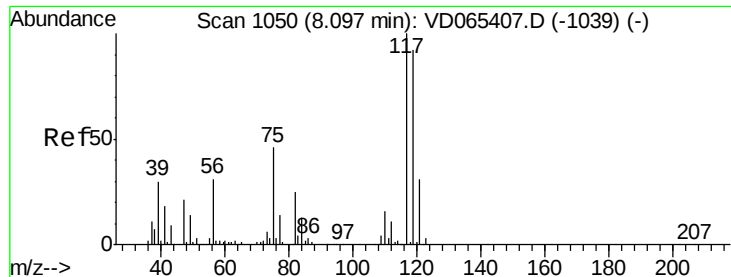
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.1	123.1
192	22.2	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 4.45 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065489.D
 Acq: 12 Mar 2020 17:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.1	54.1#
77	0.0	25.2	37.8#

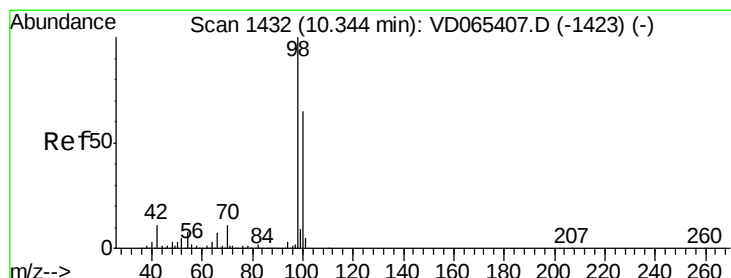
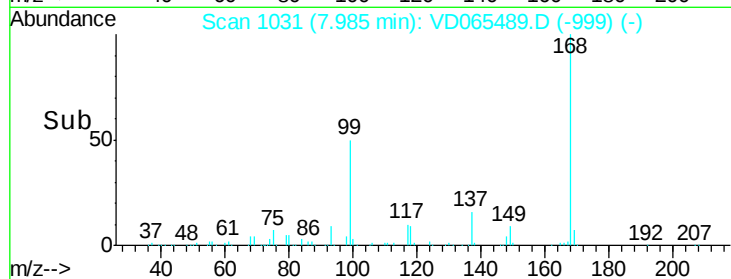
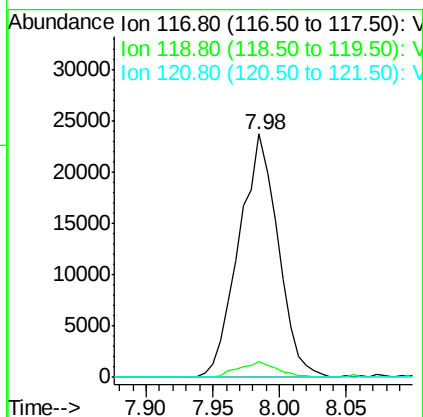
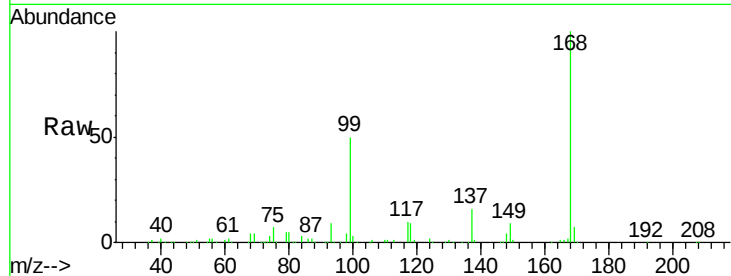




#38
Carbon Tetrachloride
Concen: 5.48 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065489.D
Acq: 12 Mar 2020 17:49

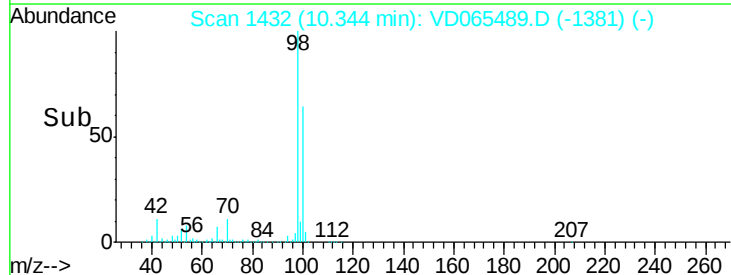
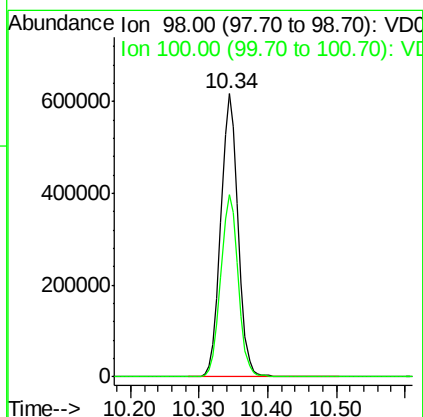
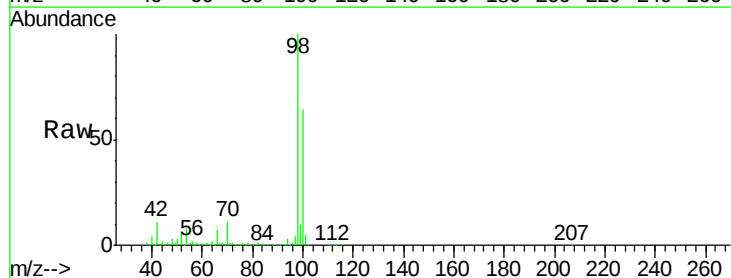
Instrument :
MSVOA_D
ClientSampleId :
Z3-S2-A

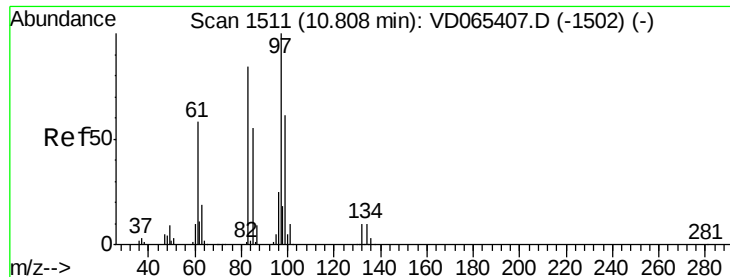
Tgt Ion:117 Resp: 48239
Ion Ratio Lower Upper
117 100
119 6.5 73.3 109.9#
121 0.0 25.0 37.4#



#50
Toluene-d8
Concen: 51.35 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065489.D
Acq: 12 Mar 2020 17:49

Tgt Ion: 98 Resp: 1078521
Ion Ratio Lower Upper
98 100
100 65.3 52.8 79.2

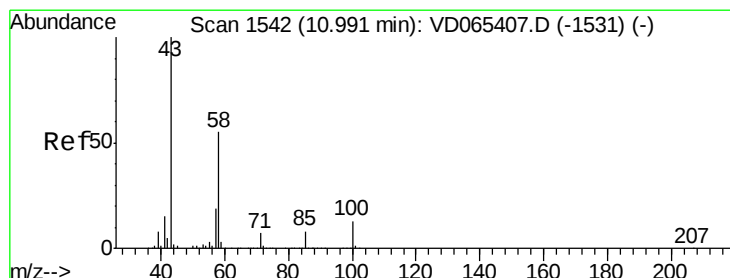
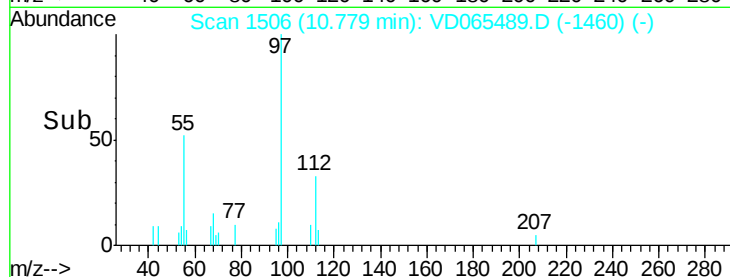
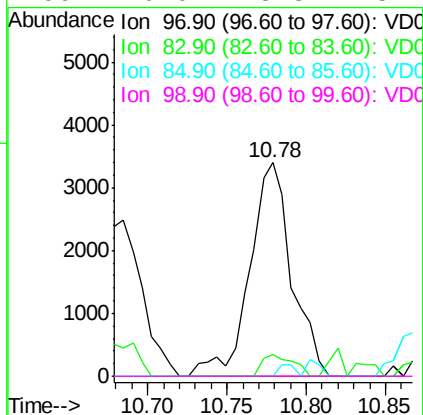
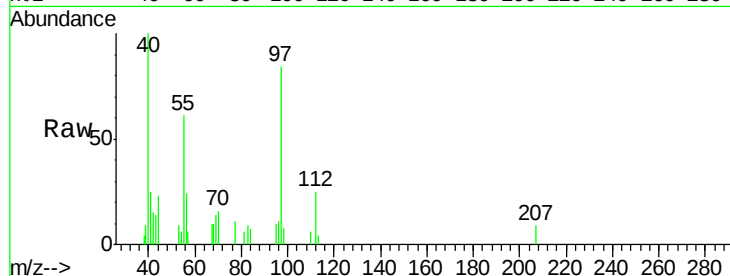




#55
 1,1,2-Trichloroethane
 Concen: 1.48 ug/l
 RT: 10.78 min Scan# 1506
 Delta R.T. -0.03 min
 Lab File: VD065489.D
 Acq: 12 Mar 2020 17:49

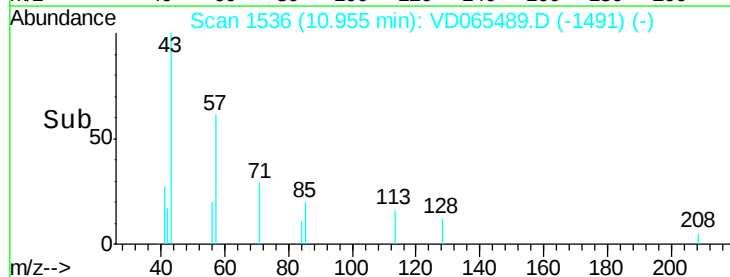
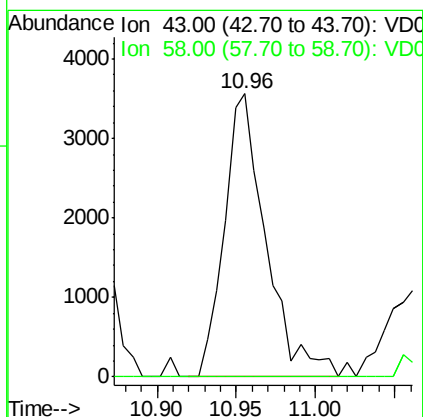
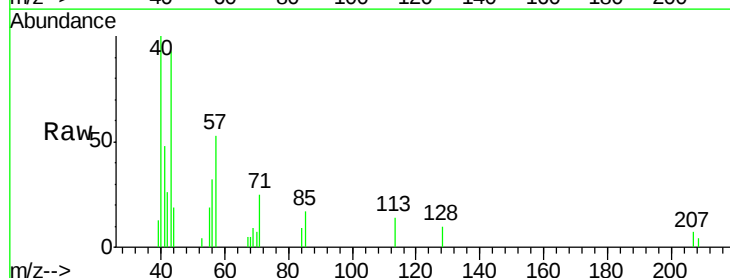
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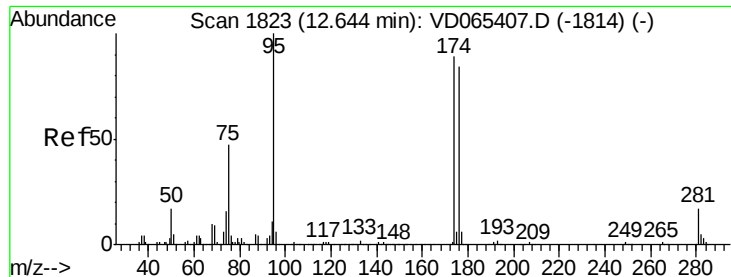
Tgt Ion: 97 Resp: 6248
 Ion Ratio Lower Upper
 97 100
 83 10.3 67.4 101.0#
 85 0.0 43.8 65.8#
 99 0.0 48.8 73.2#



#59
 2-Hexanone
 Concen: 3.08 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. -0.04 min
 Lab File: VD065489.D
 Acq: 12 Mar 2020 17:49

Tgt Ion: 43 Resp: 6493
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.4 82.2#





#62

4-Bromofluorobenzene

Concen: 56.83 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Instrument :

MSVOA_D

ClientSampleId :

Z3-S2-A

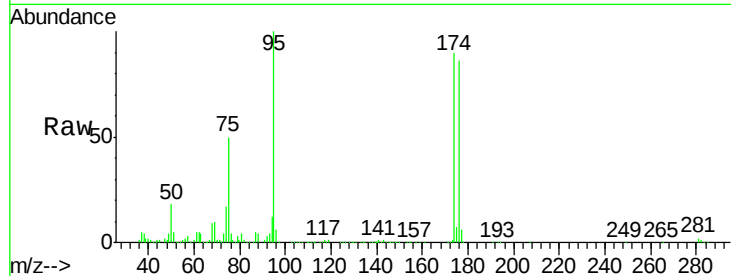
Tgt Ion: 95 Resp: 368491

Ion Ratio Lower Upper

95 100

174 90.7 0.0 176.8

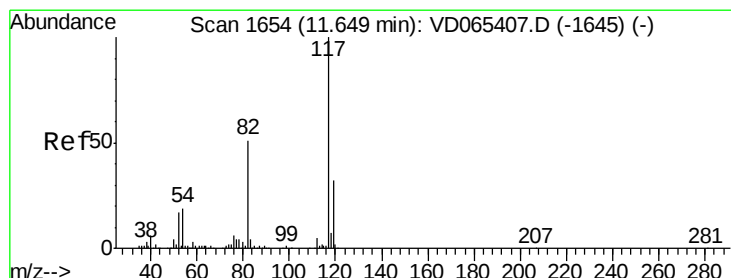
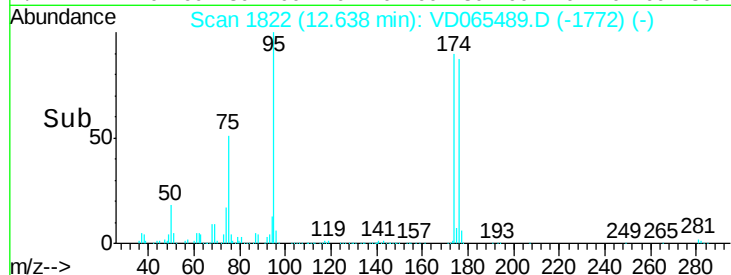
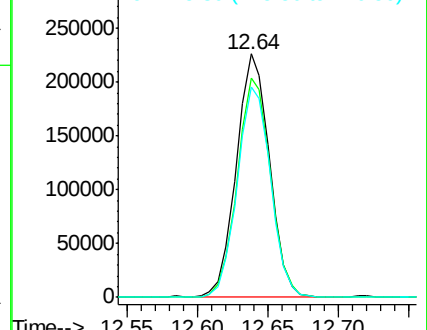
176 87.2 0.0 171.4



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: 50.00 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

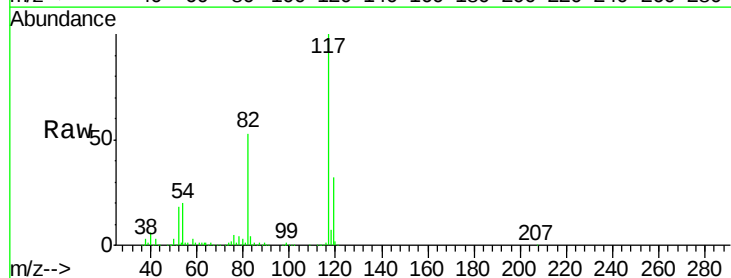
Tgt Ion: 117 Resp: 870454

Ion Ratio Lower Upper

117 100

82 52.9 40.6 60.8

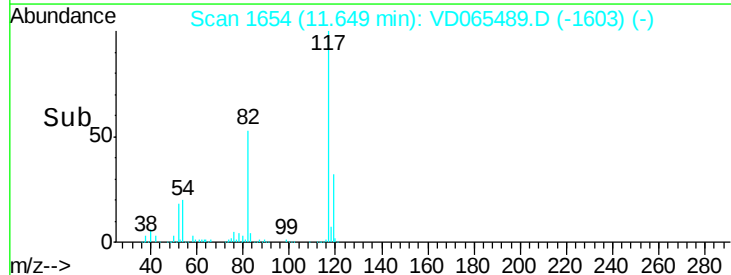
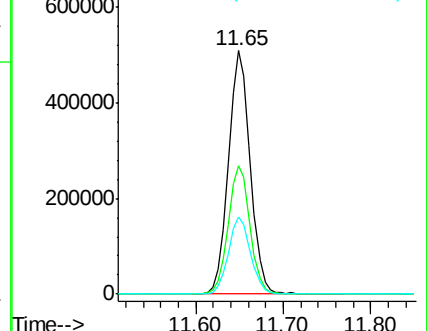
119 31.9 25.4 38.2

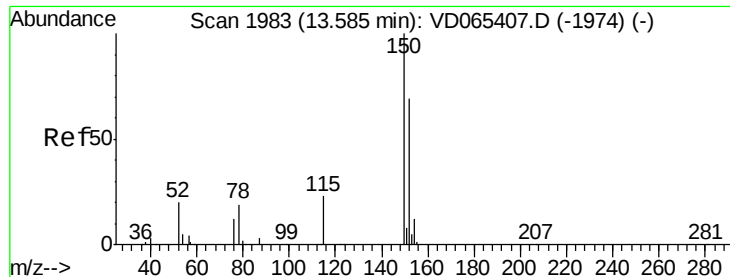


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Instrument :

MSVOA_D

ClientSampleId :

Z3-S2-A

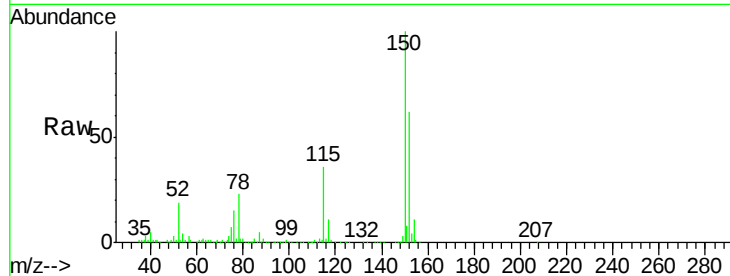
Tgt Ion:152 Resp: 410498

Ion Ratio Lower Upper

152 100

115 55.8 27.6 82.8

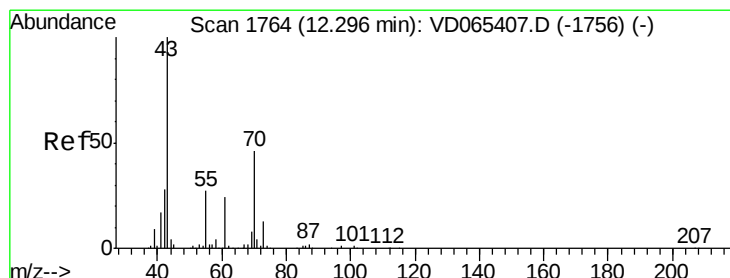
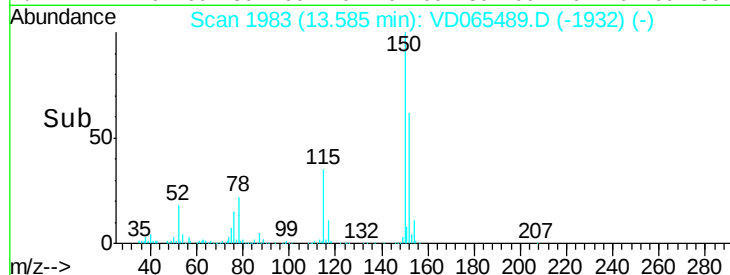
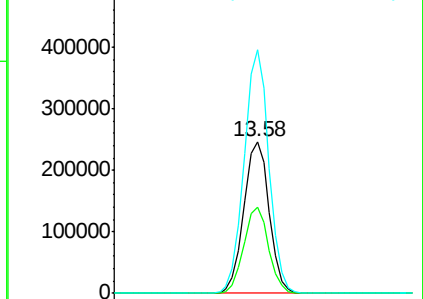
150 156.7 0.0 345.0



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



#74

N-ethyl acetate

Concen: 1.01 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Tgt Ion: 43 Resp: 5608

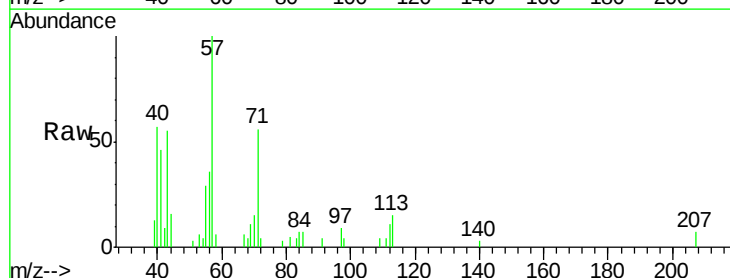
Ion Ratio Lower Upper

43 100

70 41.0 36.1 54.1

55 76.6 21.6 32.4#

61 0.0 19.6 29.4#

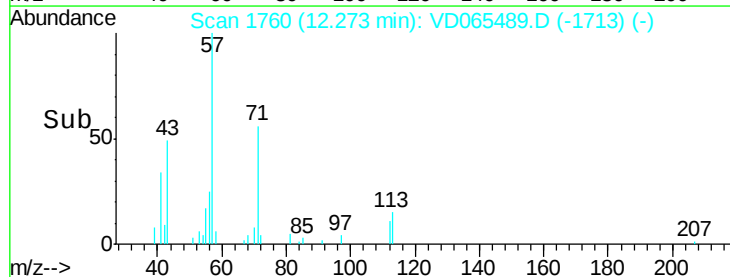
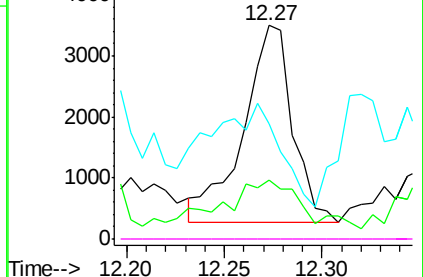


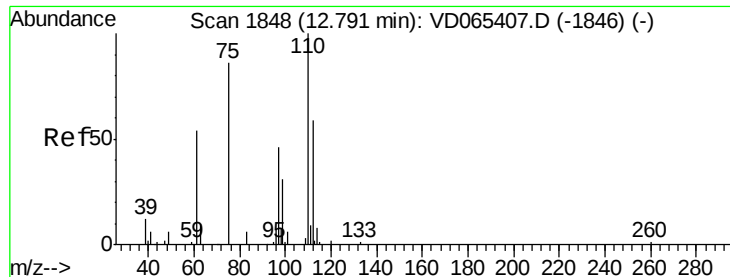
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 56.40 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Instrument :

MSVOA_D

ClientSampleId :

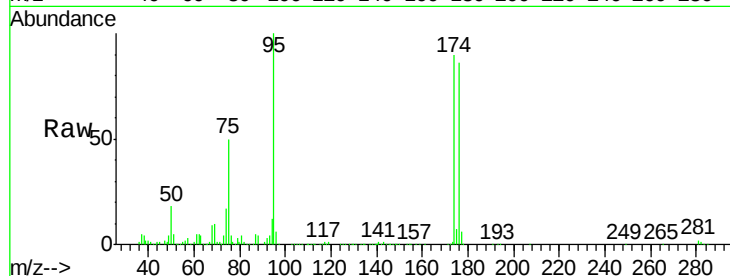
Z3-S2-A

Tgt Ion: 75 Resp: 182690

Ion Ratio Lower Upper

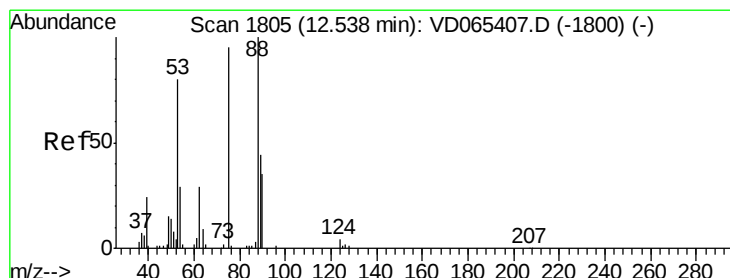
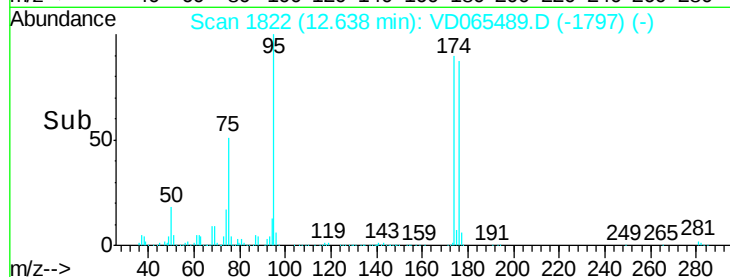
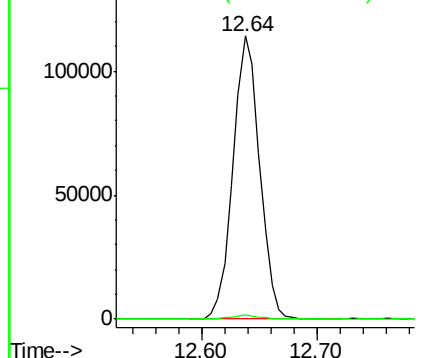
75 100

77 1.6 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: 119.02 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

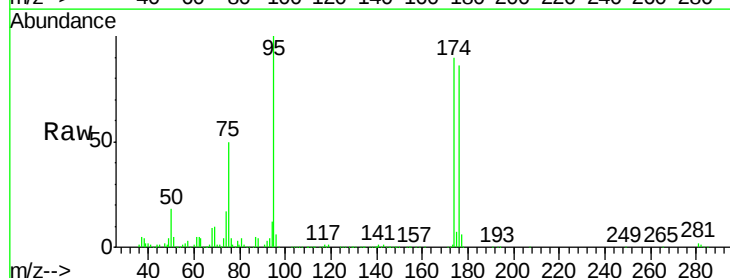
Tgt Ion: 75 Resp: 182690

Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

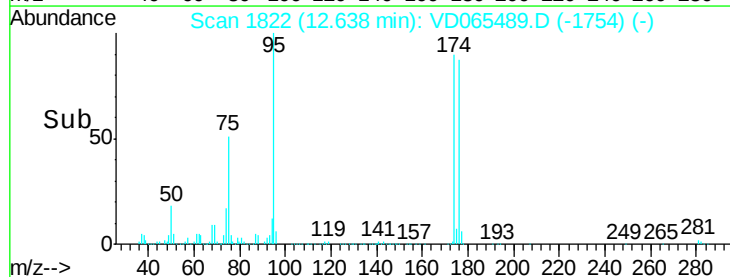
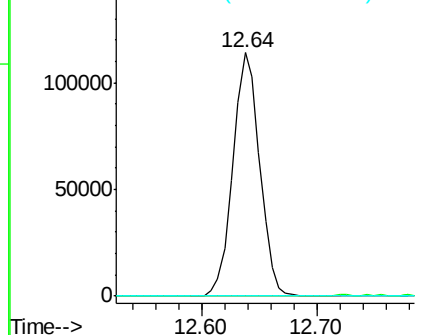
89 0.1 37.0 55.6#

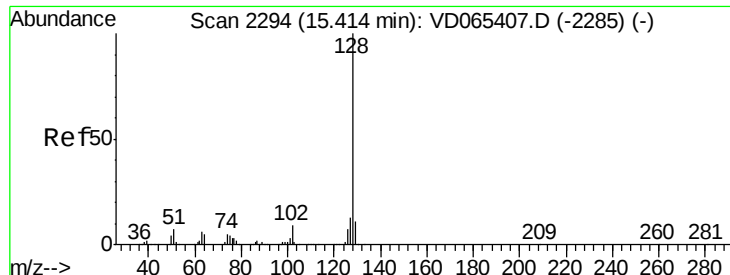


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 4.57 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065489.D

Acq: 12 Mar 2020 17:49

Instrument :

MSVOA_D

ClientSampleId :

Z3-S2-A

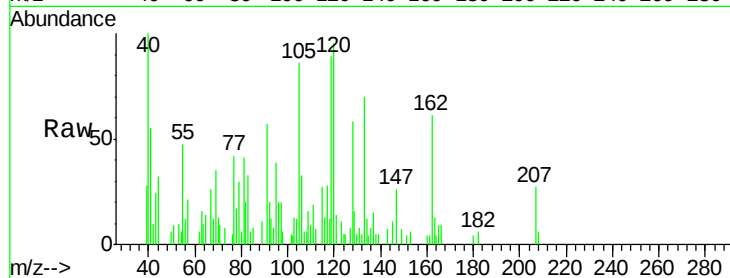
Tgt Ion:128 Resp: 2352

Ion Ratio Lower Upper

128 100

127 37.5 10.6 16.0#

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

