

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD013120\
 Data File : VD065036.D
 Acq On : 31 Jan 2020 16:19
 Operator : VA/SY
 Sample : L1329-22
 Misc : 4.99G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 628-629

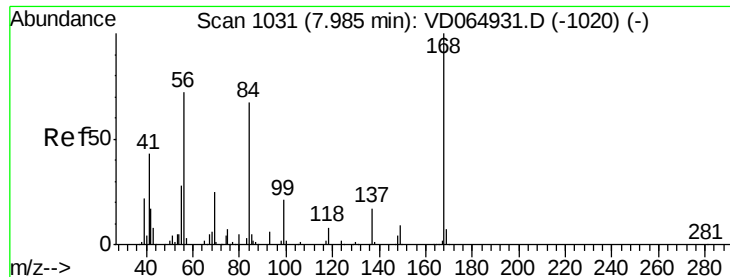
Quant Time: Jan 31 17:05:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	20347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	29783	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	31628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	14723	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	15302	78.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	156.80%	
35) Dibromofluoromethane	7.93	113	12696	67.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.66%	
50) Toluene-d8	10.35	98	34996	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
62) 4-Bromofluorobenzene	12.64	95	11976	54.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.36%	

Target Compounds				Qvalue		
16) Acetone	4.17	43	411	20.95	ug/l #	45
20) Methylene Chloride	4.98	84	234	Below	Cal #	64
25) 2-Butanone	7.24	43	261	4.95	ug/l #	49
29) Tetrahydrofuran	7.65	42	55	1.69	ug/l #	34
38) Carbon Tetrachloride	7.99	117	2233	7.36	ug/l #	14
41) Methacrylonitrile	7.46	41	67	1.05	ug/l #	24
51) 4-Methyl-2-Pentanone	10.23	43	2887	25.61	ug/l	93
56) Ethyl methacrylate	10.60	69	222	1.32	ug/l #	1
59) 2-Hexanone	10.87	43	92	1.18	ug/l #	25
71) Bromoform	12.63	173	158	1.18	ug/l #	1
74) N-amyl acetate	12.26	43	771	3.42	ug/l #	44
76) 1,2,3-Trichloropropane	12.64	75	6865	56.18	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	6865	119.95	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	1559	1.87	ug/l	81
89) n-Butylbenzene	13.86	91	961	1.14	ug/l #	53
90) Hexachloroethane	14.13	117	299	1.67	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.71	75	189	6.98	ug/l #	1
95) Naphthalene	15.41	128	2142	4.78	ug/l #	76

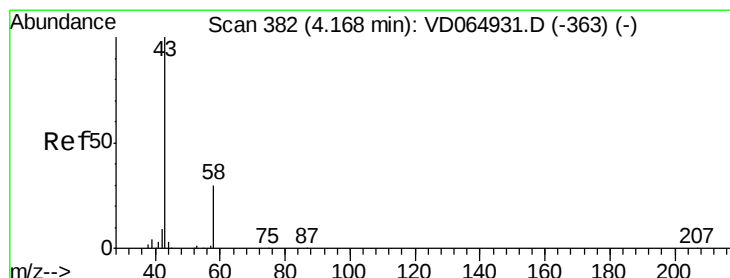
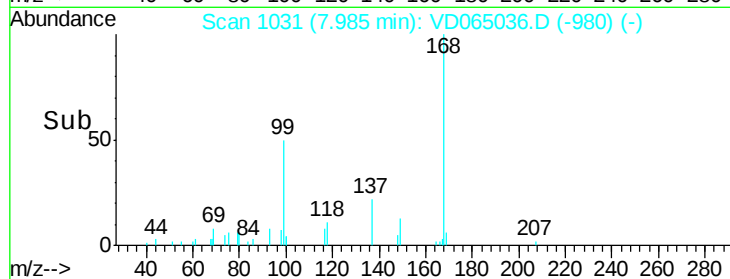
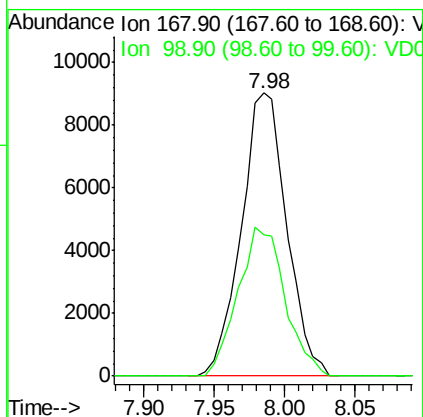
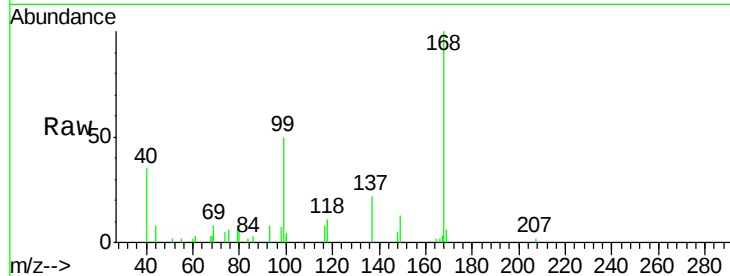
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

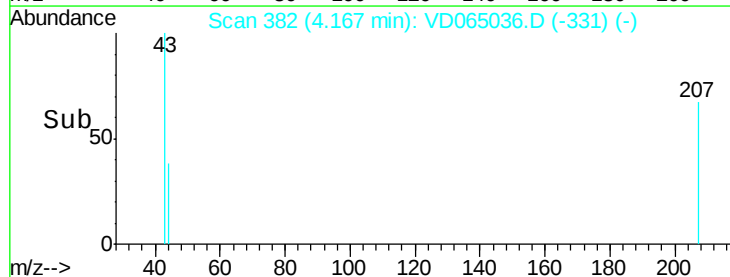
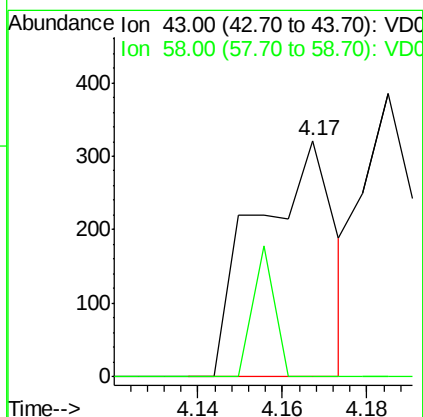
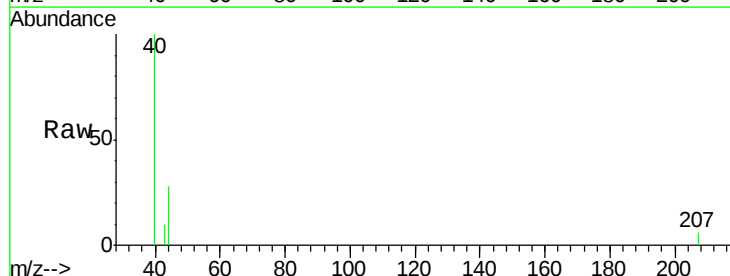
Instrument :
MSVOA_D
ClientSampleId :
628-629

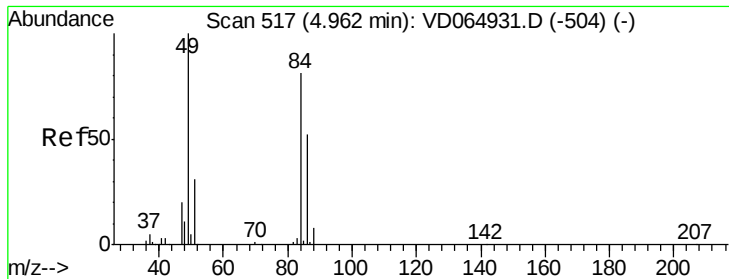
Tgt Ion:168 Resp: 20347
Ion Ratio Lower Upper
168 100
99 49.8 43.3 64.9



#16
Acetone
Concen: 20.95 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

Tgt Ion: 43 Resp: 411
Ion Ratio Lower Upper
43 100
58 0.0 23.8 35.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

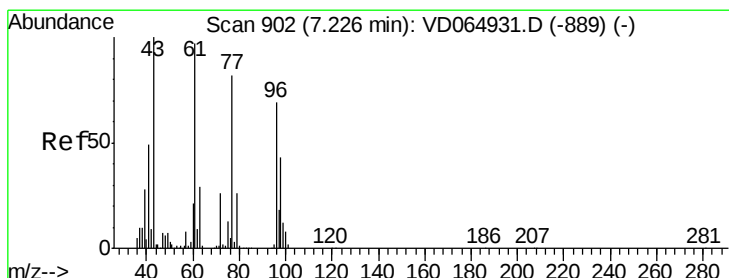
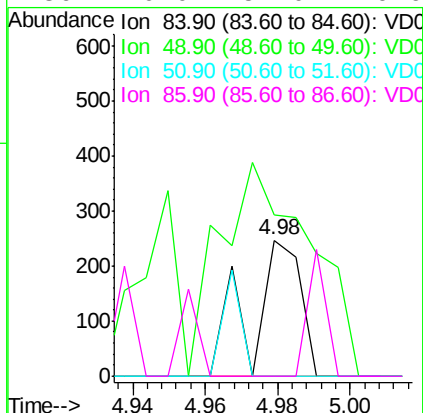
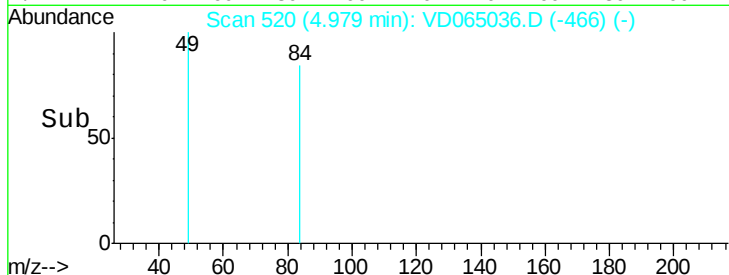
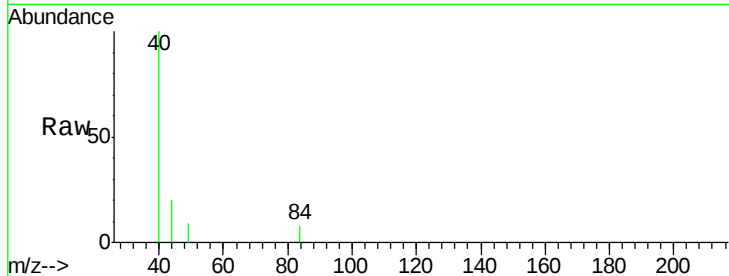
Delta R.T. 0.02 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :
MSVOA_D
ClientSampled :
628-629

Tgt Ion:	84	Resp:	234
Ion	Ratio	Lower	Upper
84	100		
49	119.0	98.4	147.6
51	0.0	30.8	46.2#
86	0.0	51.0	76.6#



#25

2-Butanone

Concen: 4.95 ug/l

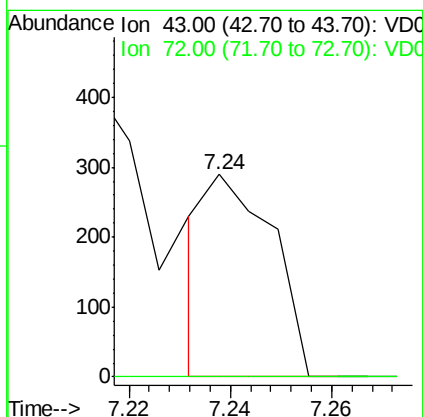
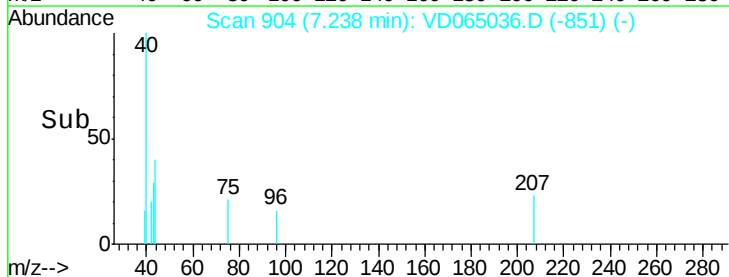
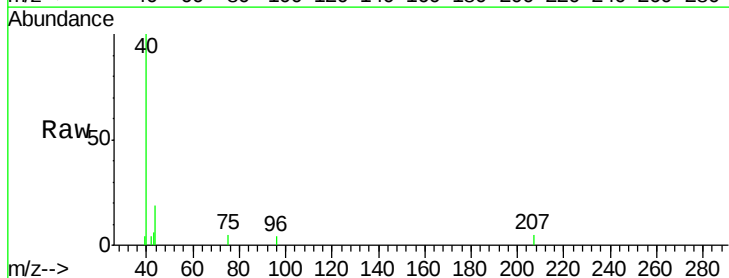
RT: 7.24 min Scan# 904

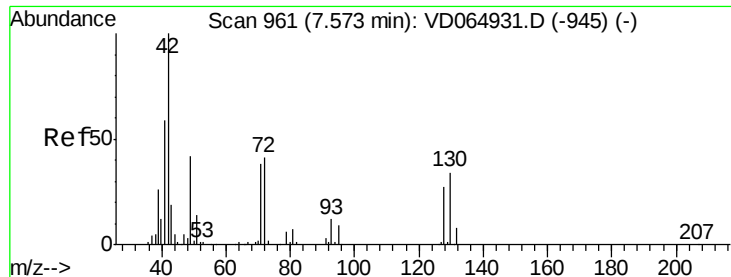
Delta R.T. 0.01 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Tgt Ion:	43	Resp:	261
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	31.0#

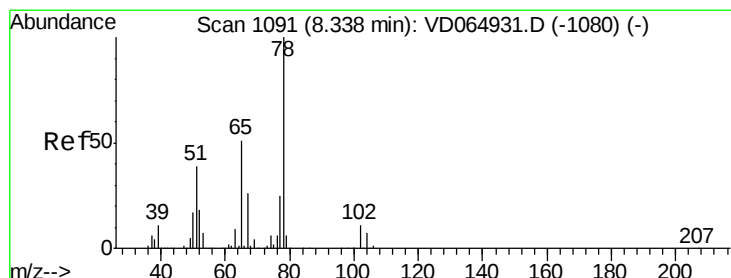
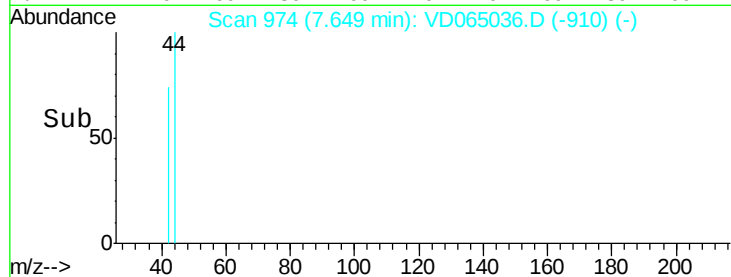
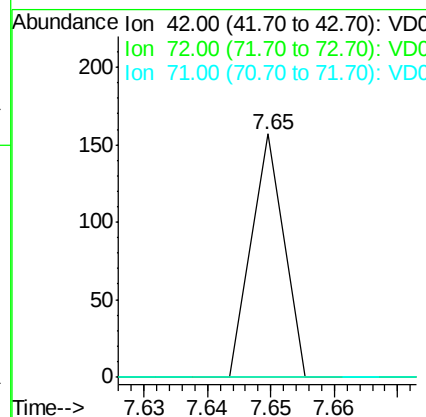
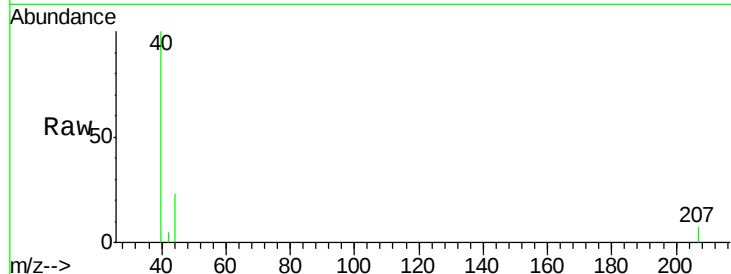




#29
Tetrahydrofuran
Concen: 1.69 ug/l
RT: 7.65 min Scan# 974
Delta R.T. 0.08 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

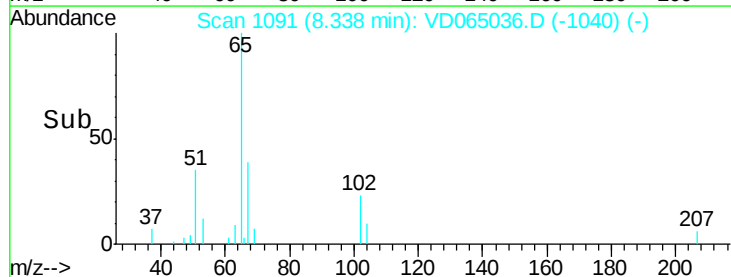
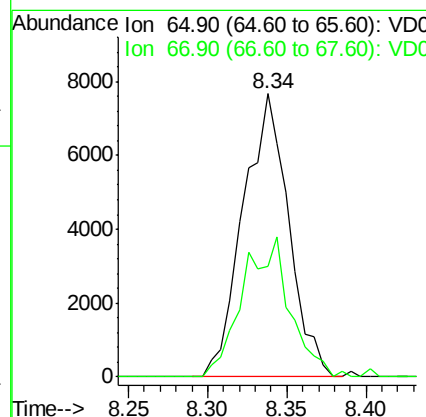
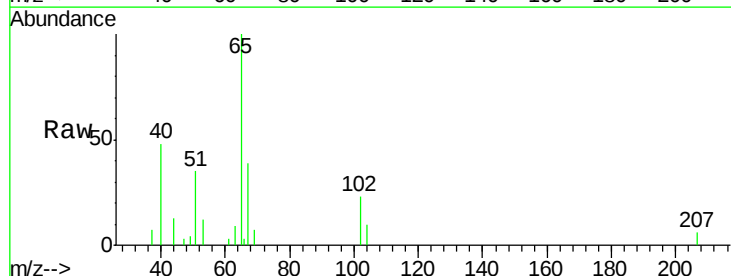
Instrument :
MSVOA_D
ClientSampleId :
628-629

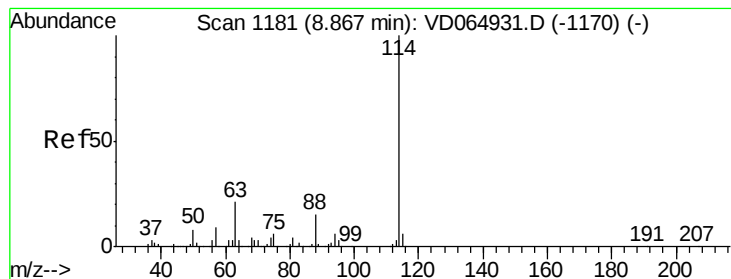
Tgt Ion: 42 Resp: 55
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 31.5 47.3#



#33
1,2-Dichloroethane-d4
Concen: 78.40 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

Tgt Ion: 65 Resp: 15302
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

628-629

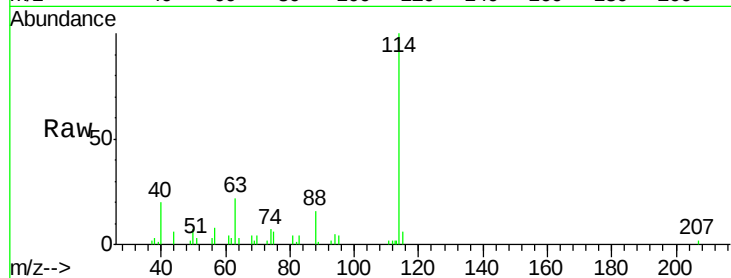
Tgt Ion:114 Resp: 29783

Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.0

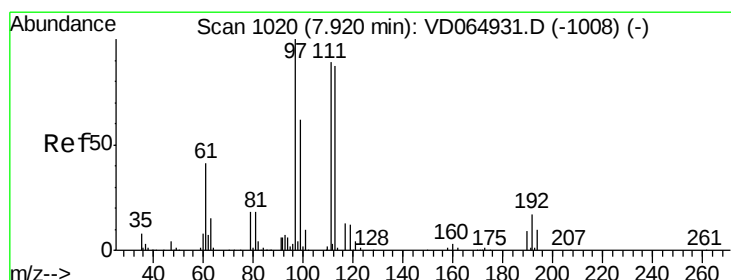
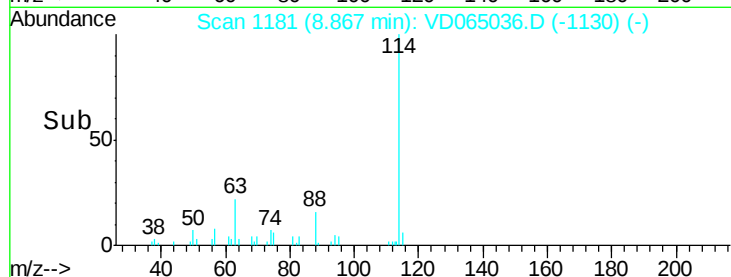
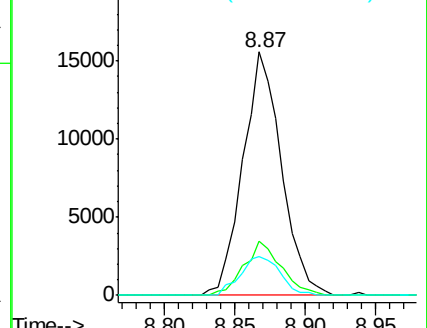
88 16.0 0.0 29.4



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: 67.83 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

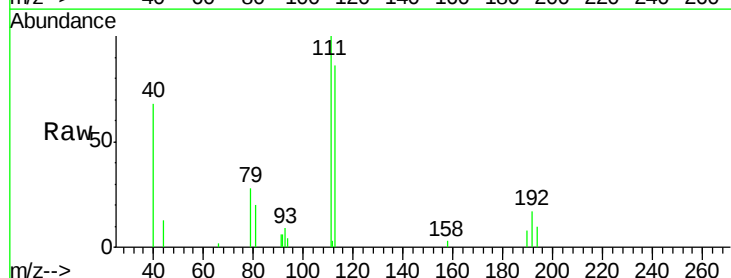
Tgt Ion:113 Resp: 12696

Ion Ratio Lower Upper

113 100

111 106.9 82.4 123.6

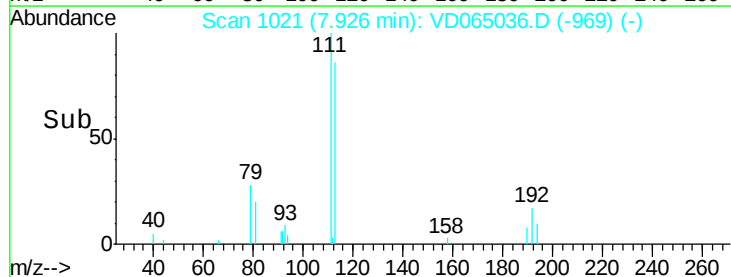
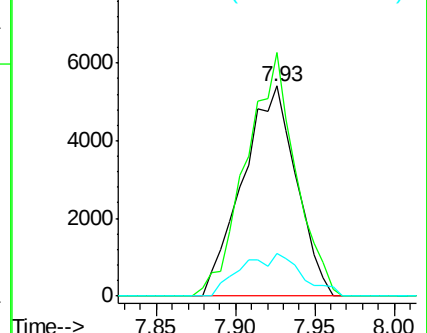
192 22.8 16.9 25.3

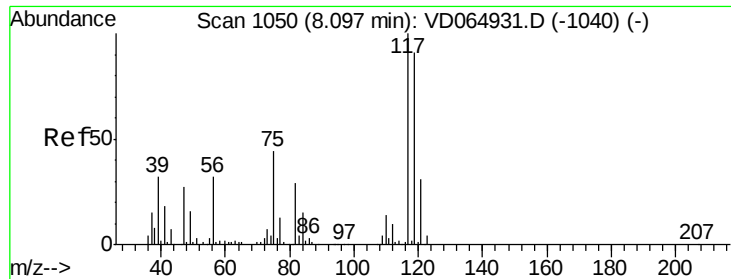


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 7.36 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

628-629

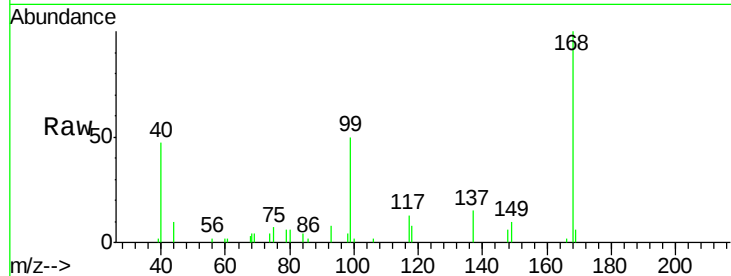
Tgt Ion:117 Resp: 2233

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

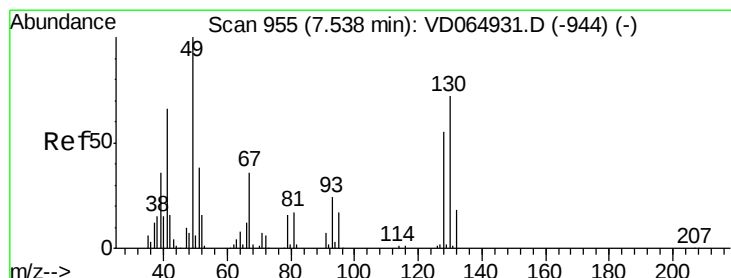
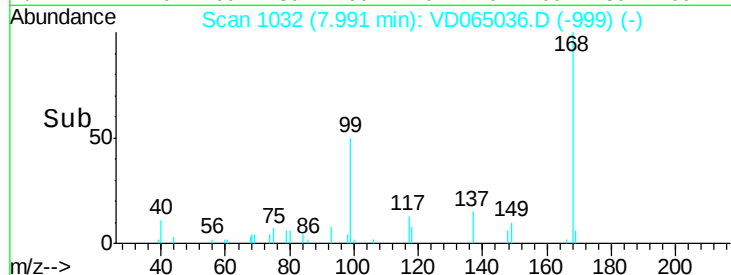
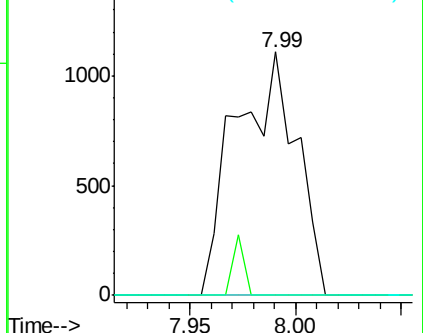
121 0.0 24.4 36.6#



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



#41

Methacrylonitrile

Concen: 1.05 ug/l

RT: 7.46 min Scan# 942

Delta R.T. -0.08 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Tgt Ion: 41 Resp: 67

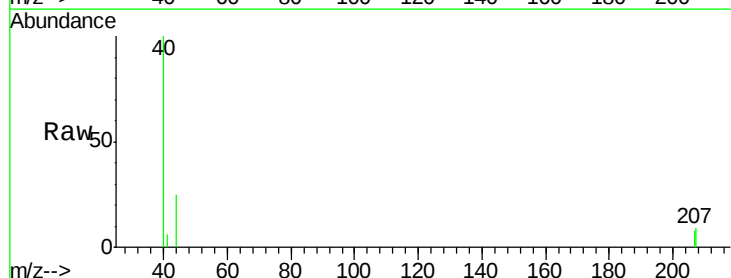
Ion Ratio Lower Upper

41 100

39 0.0 49.3 73.9#

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#

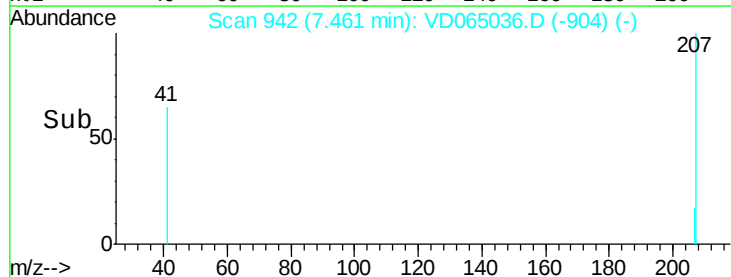
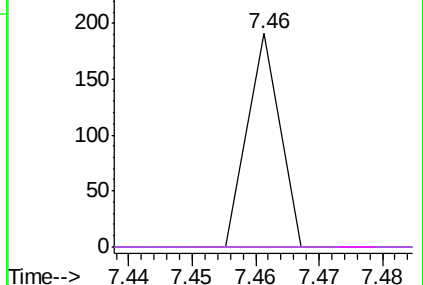


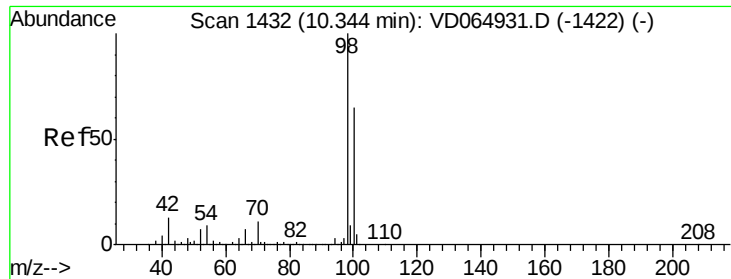
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: 48.45 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

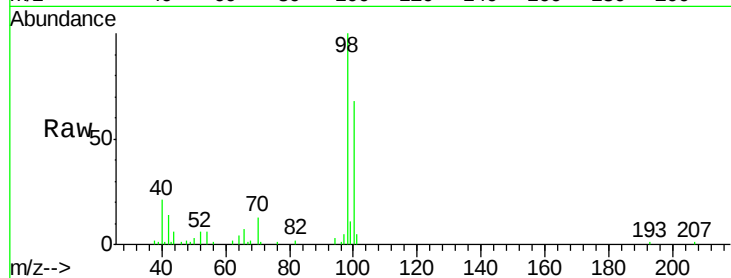
628-629

Tgt Ion: 98 Resp: 34996

Ion Ratio Lower Upper

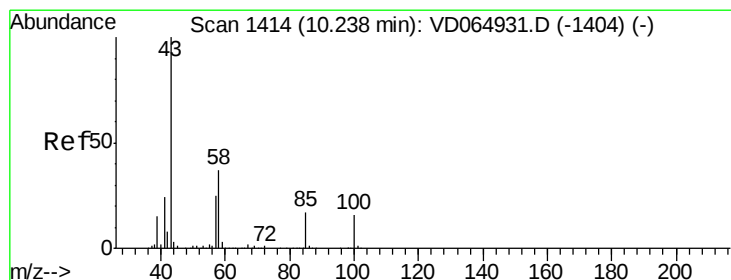
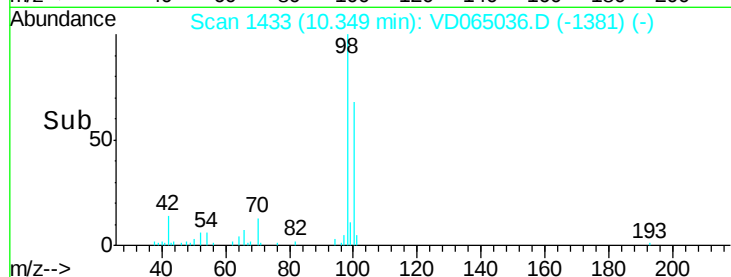
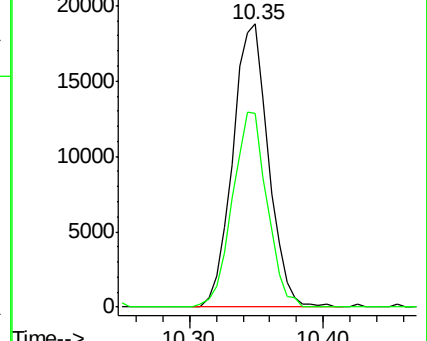
98 100

100 66.6 52.3 78.5



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: 25.61 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065036.D

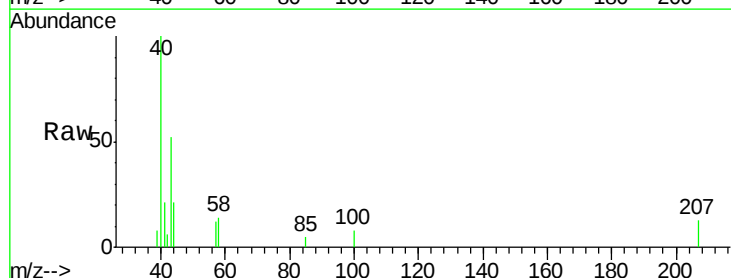
Acq: 31 Jan 2020 16:19

Tgt Ion: 43 Resp: 2887

Ion Ratio Lower Upper

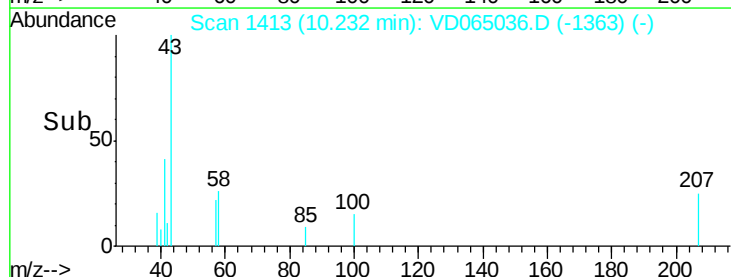
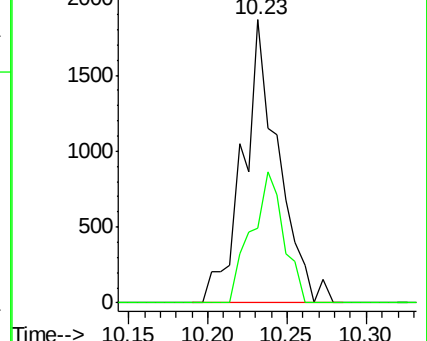
43 100

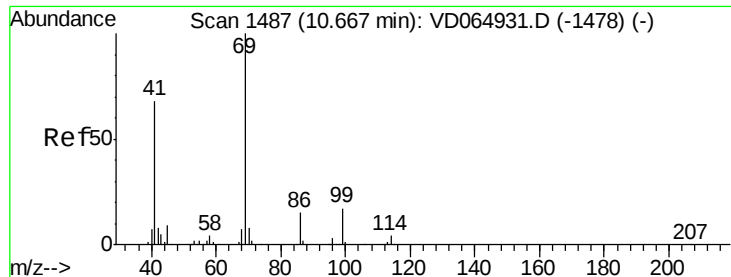
58 42.3 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#56

Ethyl methacrylate

Concen: 1.32 ug/l

RT: 10.60 min Scan# 1476

Delta R.T. -0.06 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

628-629

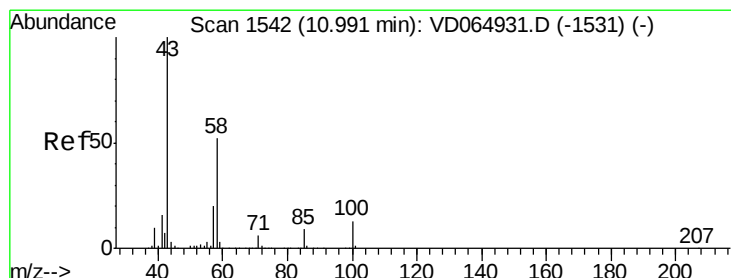
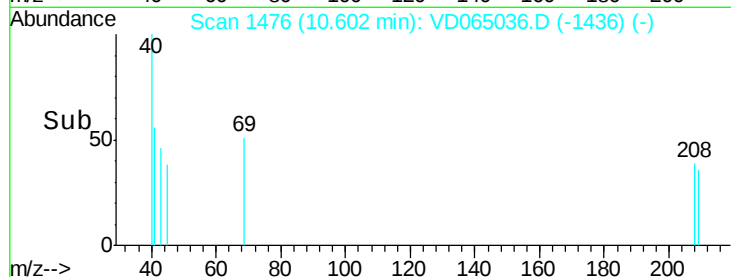
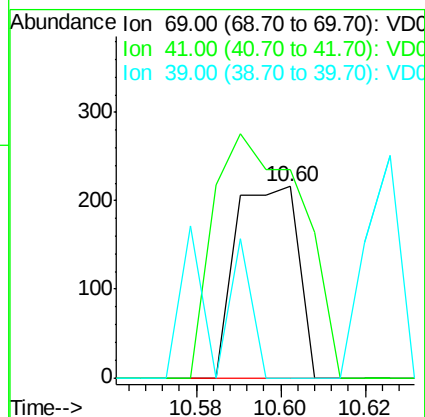
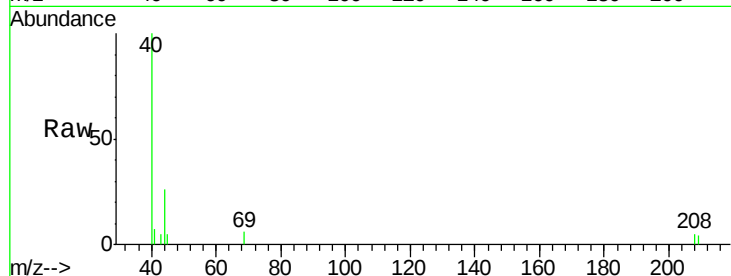
Tgt Ion: 69 Resp: 222

Ion Ratio Lower Upper

69 100

41 179.7 56.4 84.6#

39 0.0 30.6 46.0#



#59

2-Hexanone

Concen: 1.18 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.12 min

Lab File: VD065036.D

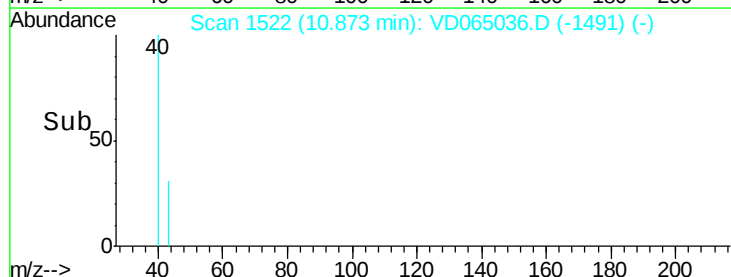
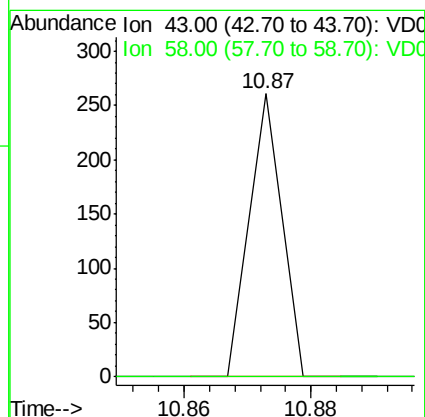
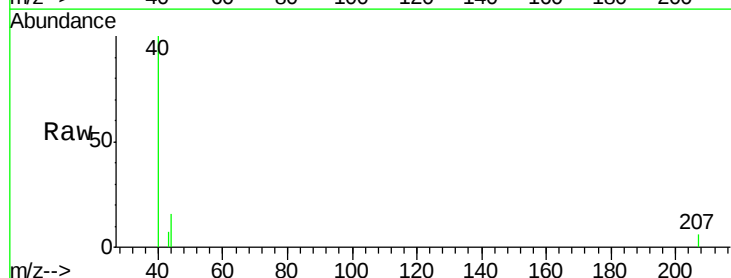
Acq: 31 Jan 2020 16:19

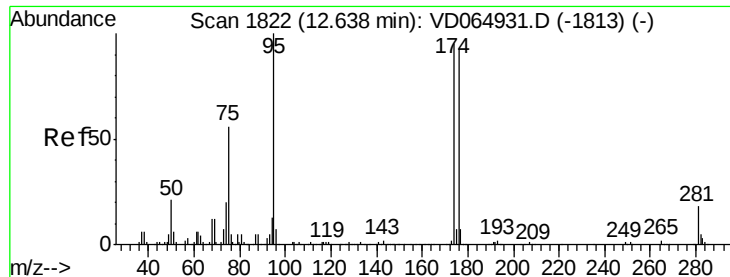
Tgt Ion: 43 Resp: 92

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.4#

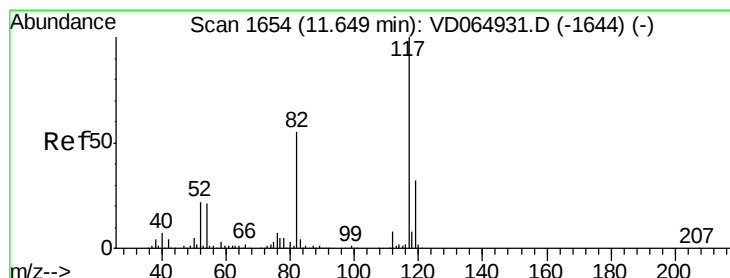
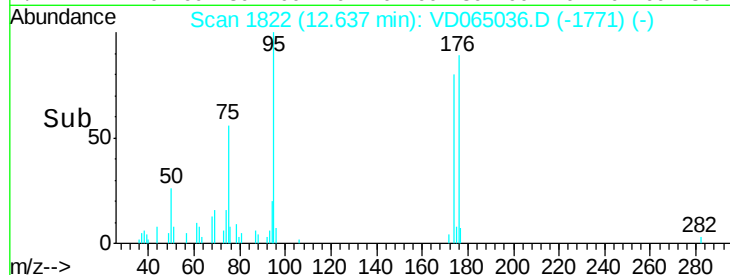
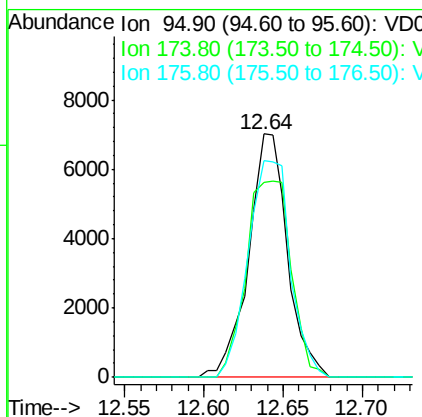
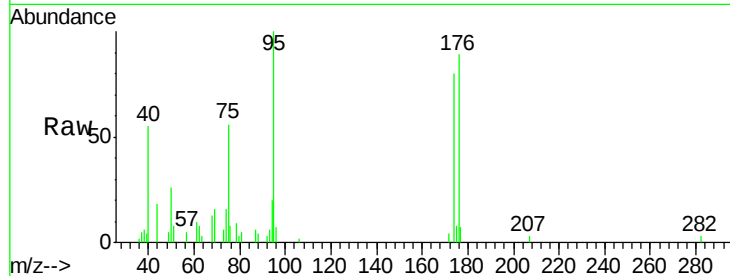




#62
4-Bromofluorobenzene
Concen: 54.18 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

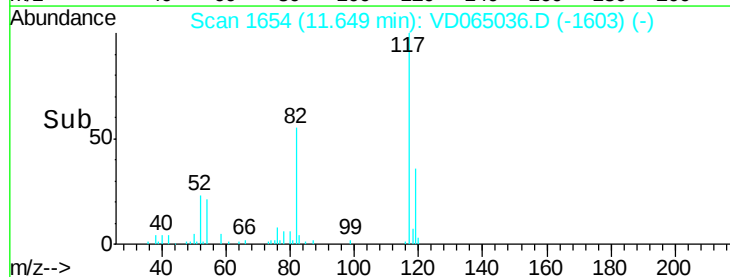
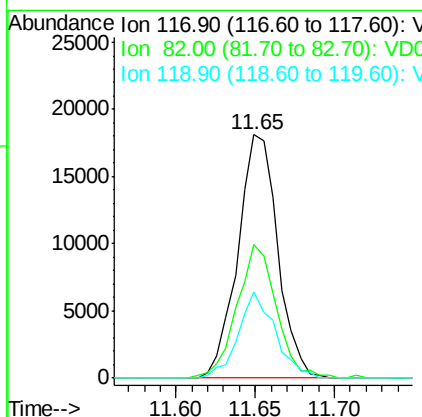
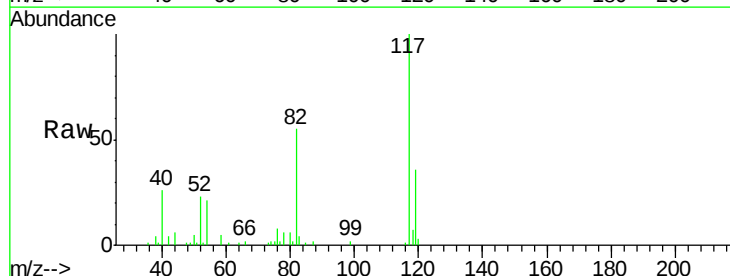
Instrument :
MSVOA_D
ClientSampleId :
628-629

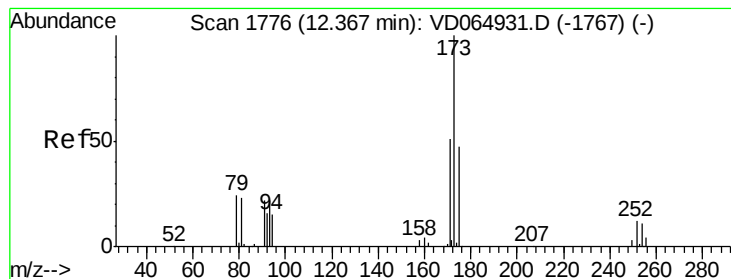
Tgt Ion: 95 Resp: 11976
Ion Ratio Lower Upper
95 100
174 93.6 0.0 186.8
176 96.7 0.0 183.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

Tgt Ion: 117 Resp: 31628
Ion Ratio Lower Upper
117 100
82 54.7 43.6 65.4
119 35.6 25.2 37.8





#71

Bromoform

Concen: 1.18 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.26 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

628-629

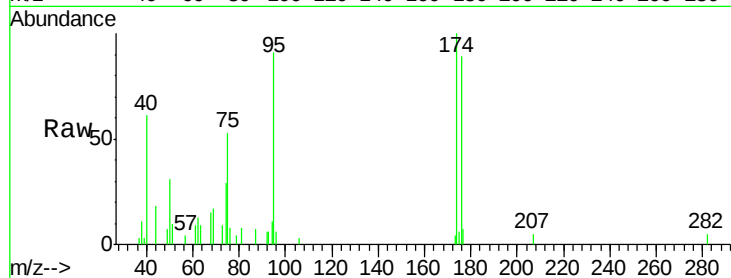
Tgt Ion:173 Resp: 158

Ion Ratio Lower Upper

173 100

175 291.1 24.6 73.8#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

800

600

400

200

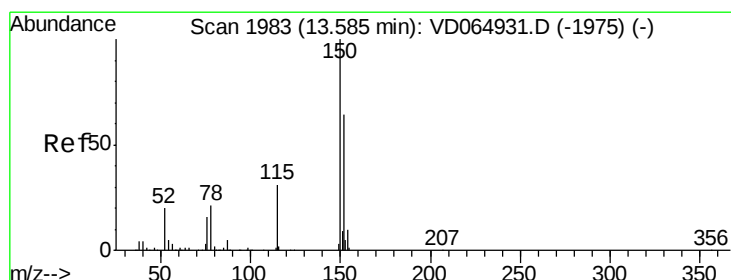
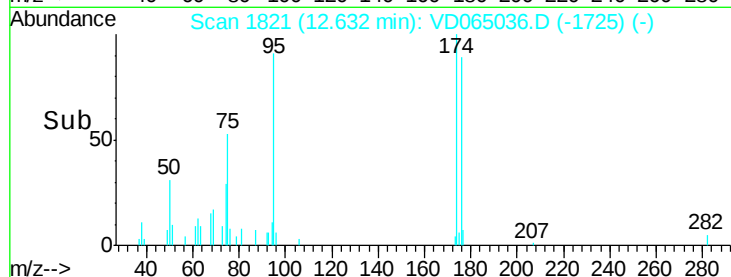
0

12.62

12.63

12.64

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

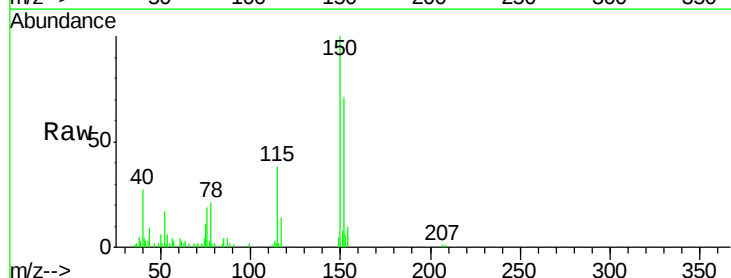
Tgt Ion:152 Resp: 14723

Ion Ratio Lower Upper

152 100

115 56.7 28.1 84.4

150 159.4 0.0 350.4



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

15000

10000

5000

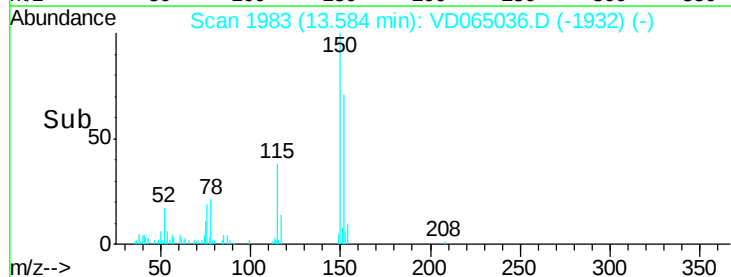
0

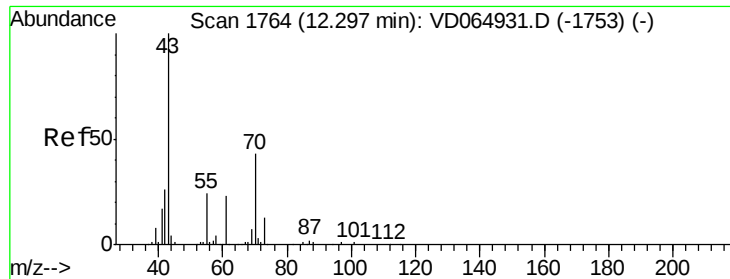
13.55

13.58

13.65

Time-->

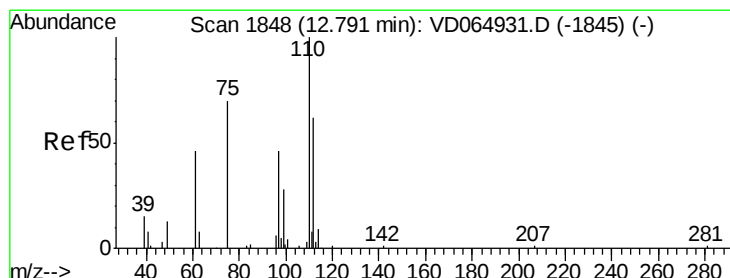
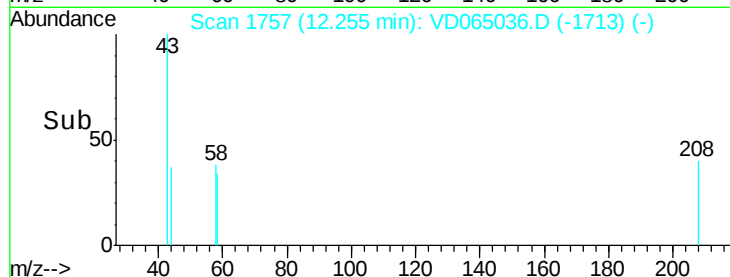
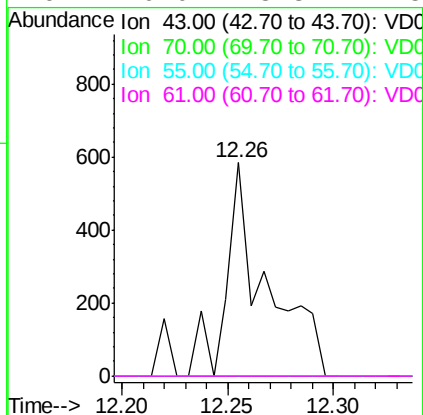
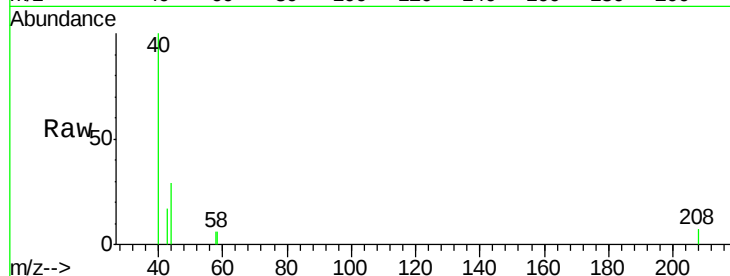




#74
N-amyI acetate
Concen: 3.42 ug/l
RT: 12.26 min Scan# 1757
Delta R.T. -0.04 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

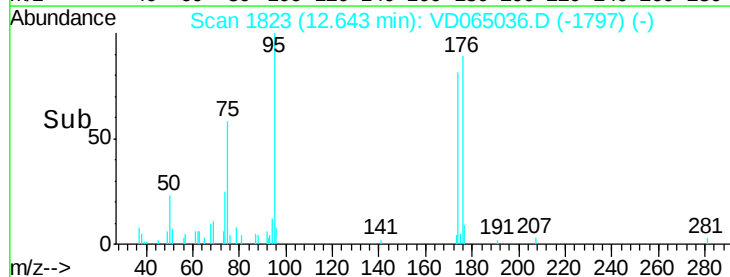
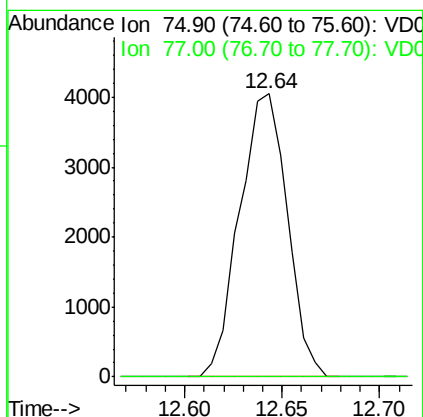
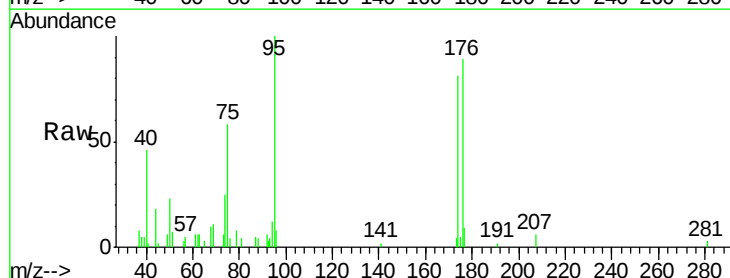
Instrument :
MSVOA_D
ClientSampleId :
628-629

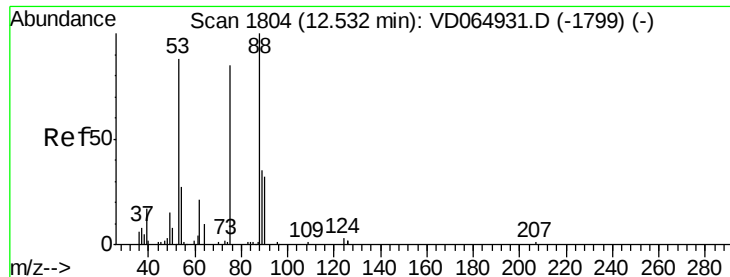
Tgt Ion: 43 Resp: 771
Ion Ratio Lower Upper
43 100
70 0.0 32.6 49.0#
55 0.0 19.9 29.9#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 56.18 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. -0.15 min
Lab File: VD065036.D
Acq: 31 Jan 2020 16:19

Tgt Ion: 75 Resp: 6865
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 119.95 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

628-629

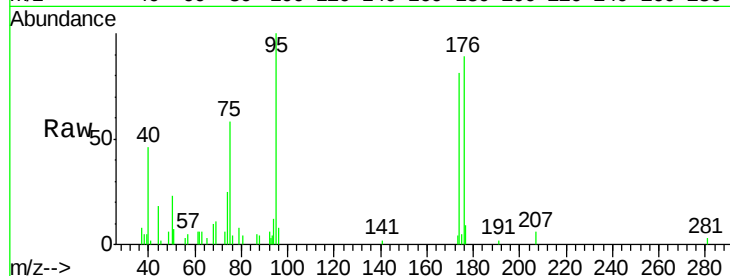
Tgt Ion: 75 Resp: 6865

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

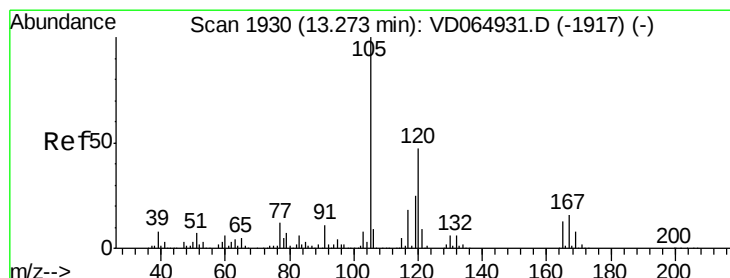
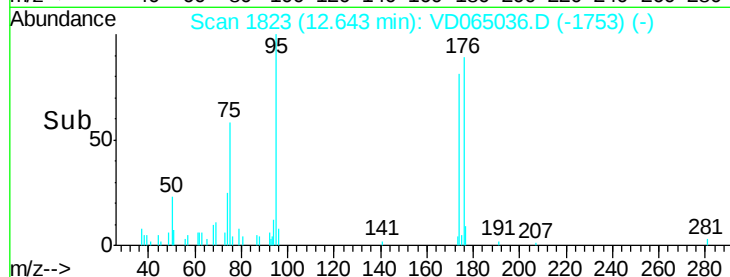
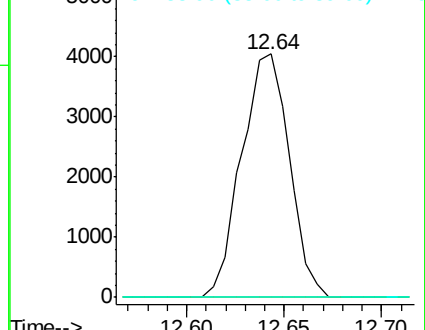
89 0.0 36.2 54.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.87 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD065036.D

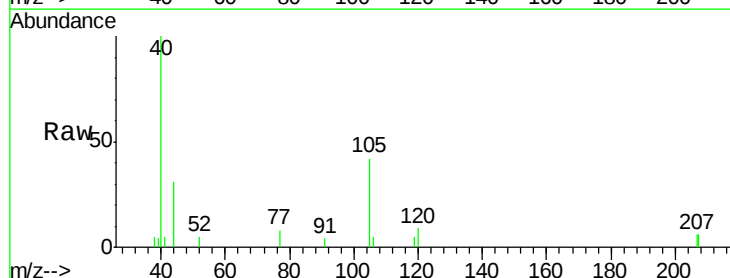
Acq: 31 Jan 2020 16:19

Tgt Ion: 105 Resp: 1559

Ion Ratio Lower Upper

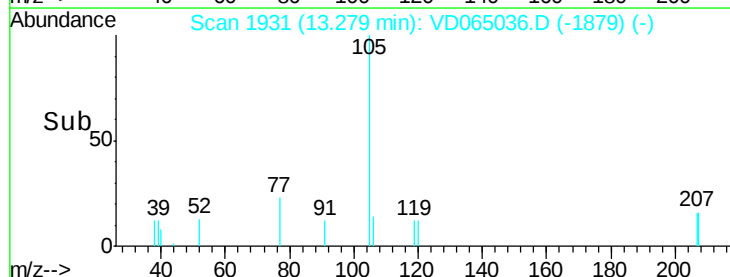
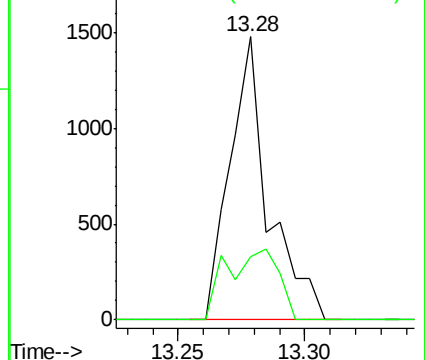
105 100

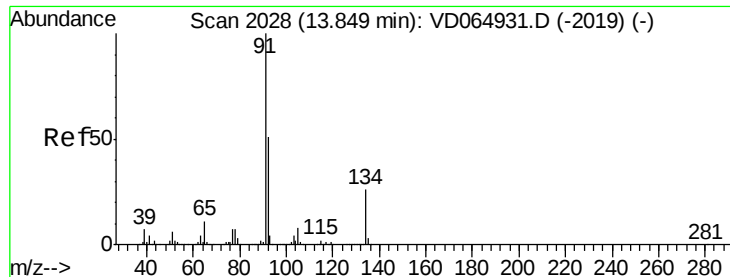
120 33.9 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#89

n-Butylbenzene

Concen: 1.14 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. 0.01 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

628-629

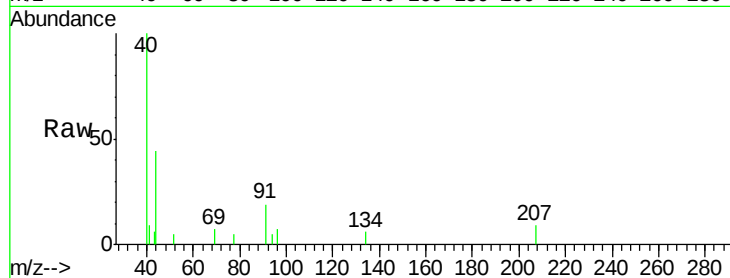
Tgt Ion: 91 Resp: 961

Ion Ratio Lower Upper

91 100

92 9.4 26.4 79.0#

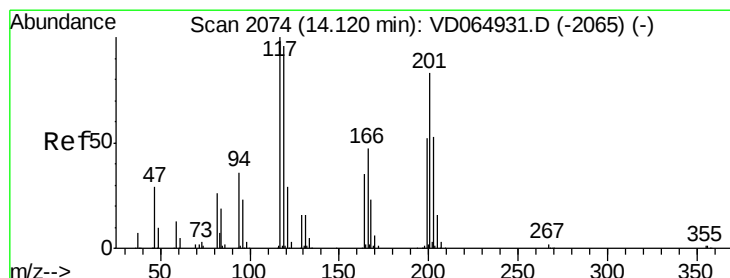
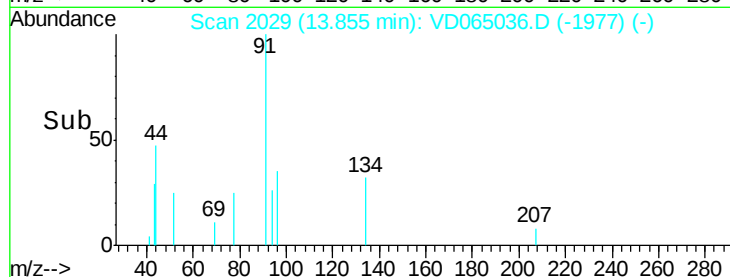
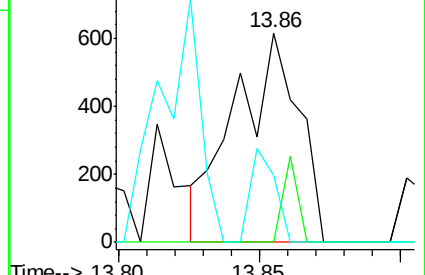
134 17.3 13.3 39.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC



#90

Hexachloroethane

Concen: 1.67 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD065036.D

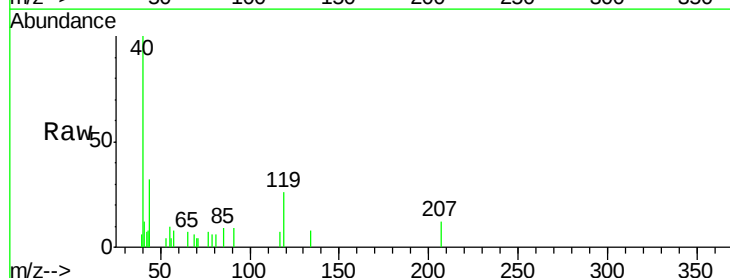
Acq: 31 Jan 2020 16:19

Tgt Ion: 117 Resp: 299

Ion Ratio Lower Upper

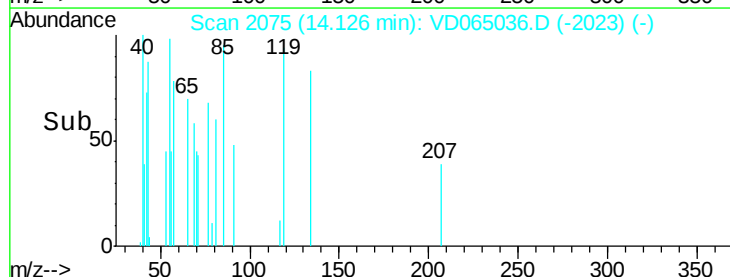
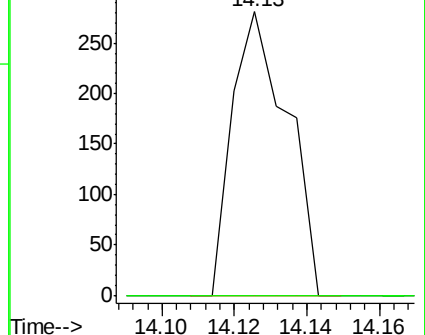
117 100

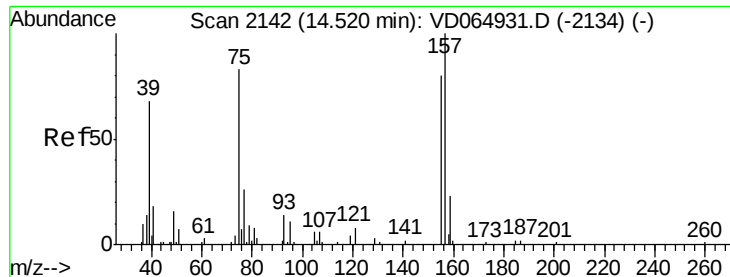
201 0.0 41.1 123.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.98 ug/l

RT: 14.71 min Scan# 2174

Delta R.T. 0.19 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

Instrument :

MSVOA_D

ClientSampled :

628-629

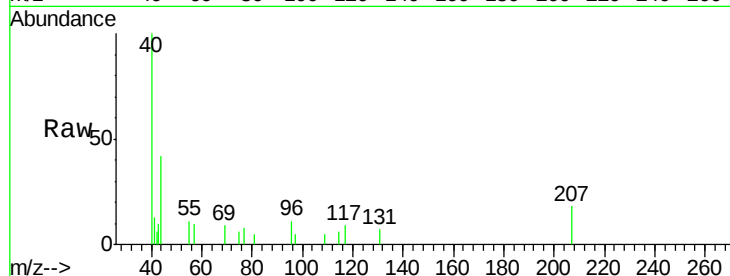
Tgt Ion: 75 Resp: 189

Ion Ratio Lower Upper

75 100

155 0.0 44.9 134.7#

157 0.0 58.9 176.6#

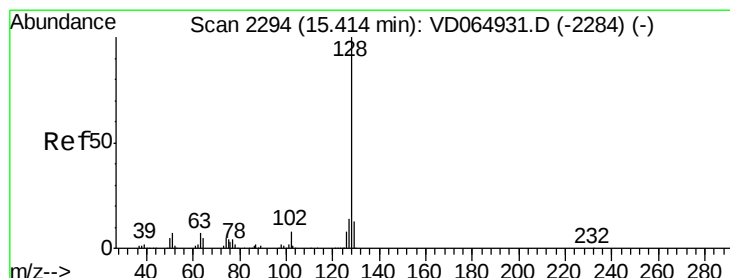
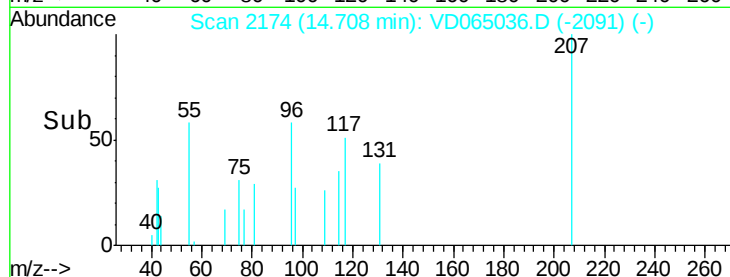


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

Time--> 14.66 14.68 14.70 14.72



#95

Naphthalene

Concen: 4.78 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065036.D

Acq: 31 Jan 2020 16:19

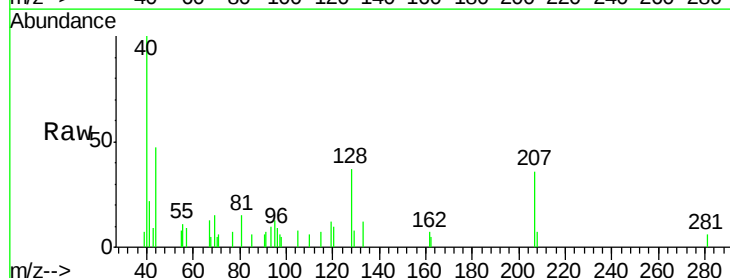
Tgt Ion: 128 Resp: 2142

Ion Ratio Lower Upper

128 100

127 2.7 10.6 15.8#

129 3.5 9.3 13.9#



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

Time--> 15.35 15.40 15.45

