

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055455.D
 Acq On : 7 May 2019 23:28
 Operator : JC/SP
 Sample : K2717-03
 Misc : 5.04u/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P026-SS001-0612-01

Quant Time: May 08 05:54:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	430070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	669107	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	544543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190004	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	280807	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
35) Dibromofluoromethane	7.59	113	209697	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	10.09	98	787527	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	12.40	95	247047	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	

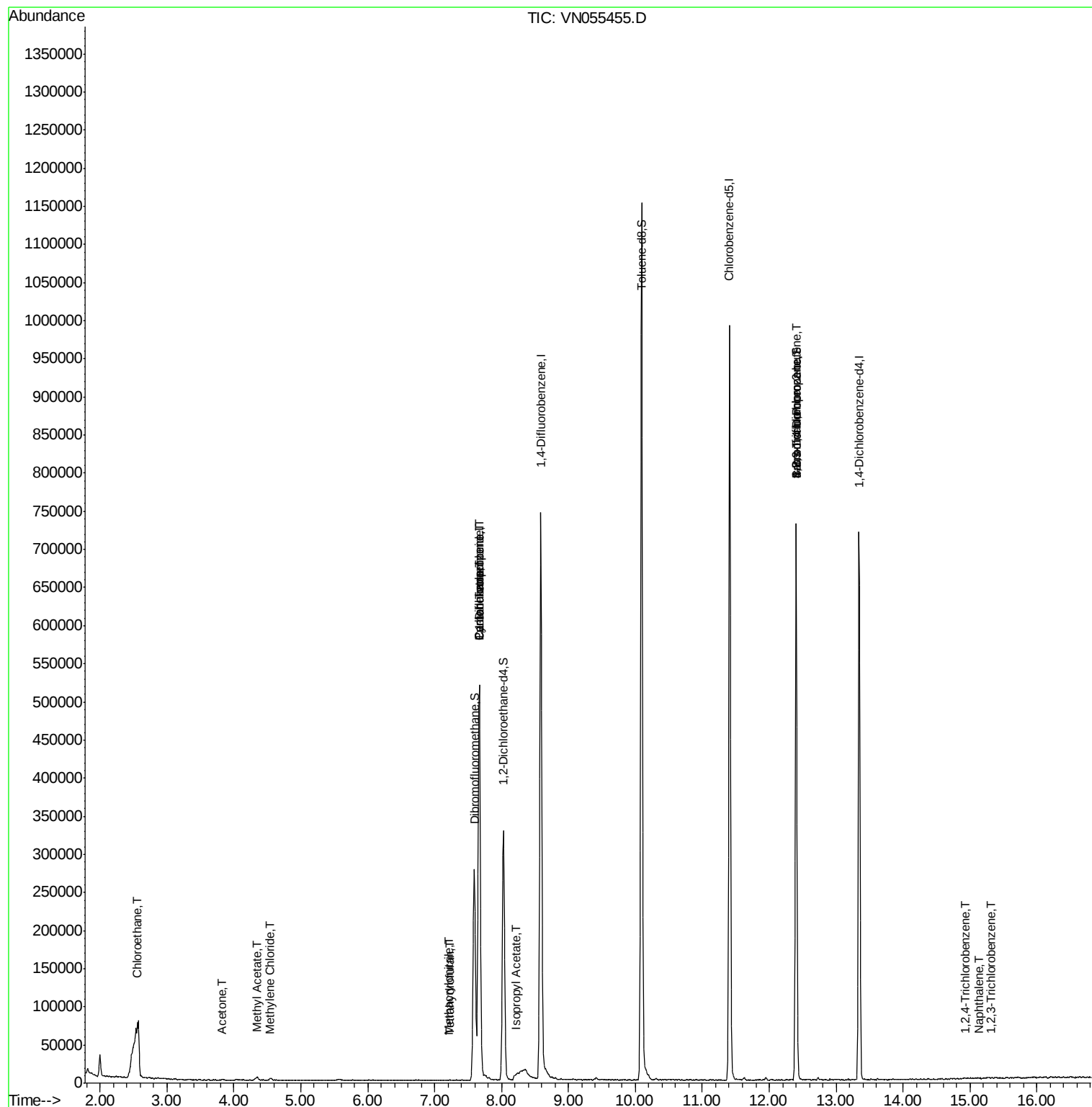
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.55	64	1090	0.383	ug/l	92
16) Acetone	3.83	43	1307	0.746	ug/l #	45
18) Methyl Acetate	4.34	43	8632	1.006	ug/l #	85
20) Methylene Chloride	4.55	84	1286	0.240	ug/l #	69
29) Tetrahydrofuran	7.22	42	323	0.225	ug/l #	40
31) Cyclohexane	7.67	56	10062	1.137	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	33584	5.240	ug/l #	51
38) Carbon Tetrachloride	7.67	117	41473	6.708	ug/l #	16
41) Methacrylonitrile	7.21	41	60	0.762	ug/l #	23
43) Isopropyl Acetate	8.21	43	6105	0.773	ug/l #	56
71) Bromoform	12.39	173	546	0.236	ug/l #	1
73) Isopropylbenzene	12.25	105	393	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.41	83	136	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	128193	35.571	ug/l #	100
79) 2-Chlorotoluene	12.66	91	184	Below Cal	#	42
81) trans-1,4-Dichloro-2-buten	12.40	75	128193	127.858	ug/l #	7
83) tert-Butylbenzene	12.99	119	268	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.91	180	392	3.458	ug/l #	45
94) Hexachlorobutadiene	15.01	225	96	Below Cal	#	20
95) Naphthalene	15.14	128	430	3.404	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	224	2.699	ug/l #	78

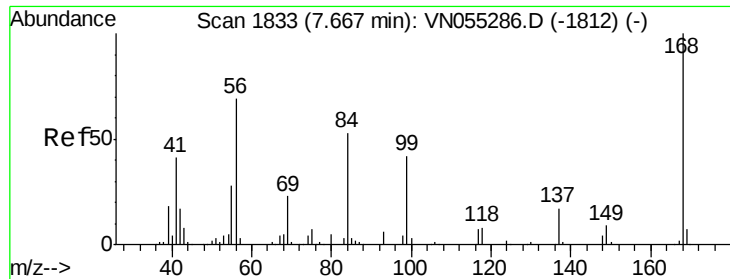
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

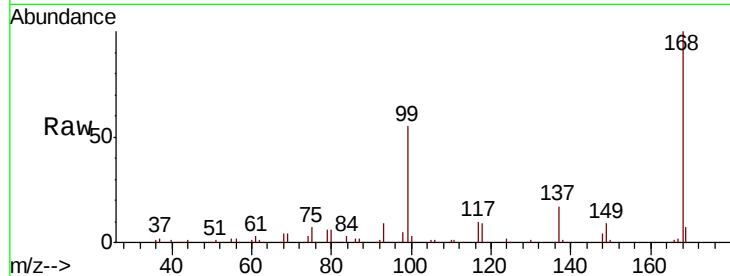
P026-SS001-0612-01

Tot Ion:168 Resp: 430070

Ion Ratio Lower Upper

168 100

99 55.4 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

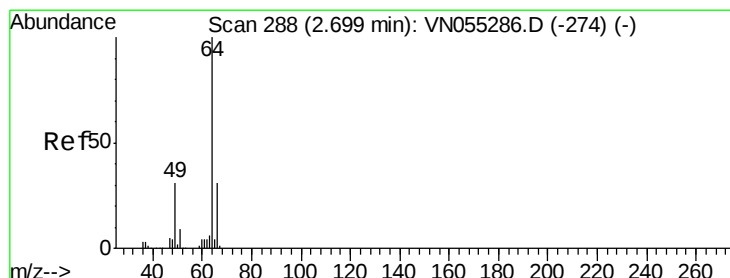
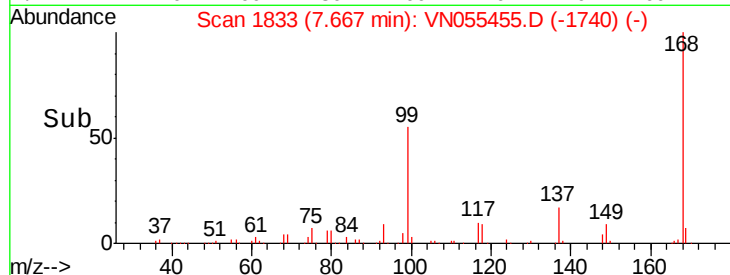
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.383 ug/l

RT: 2.55 min Scan# 242

Delta R.T. -0.15 min

Lab File: VN055455.D

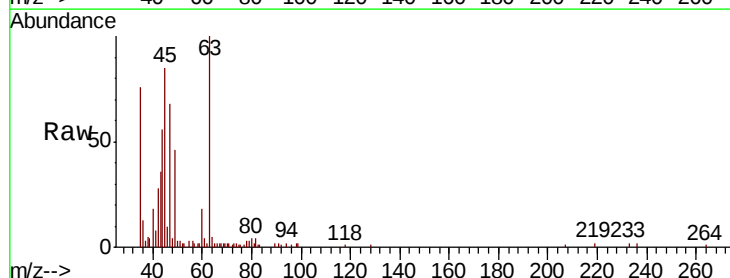
Acq: 7 May 2019 23:28

Tgt Ion: 64 Resp: 1090

Ion Ratio Lower Upper

64 100

66 35.6 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN

Ion 65.90 (65.60 to 66.60): VN

2.55

600

500

400

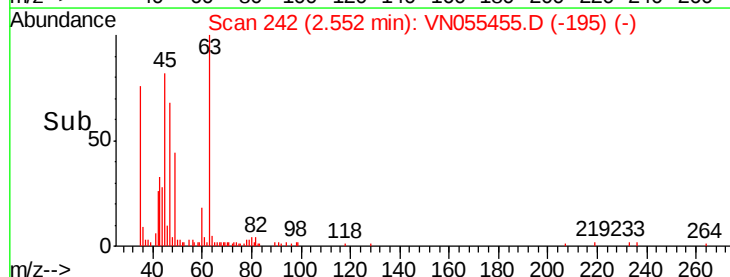
300

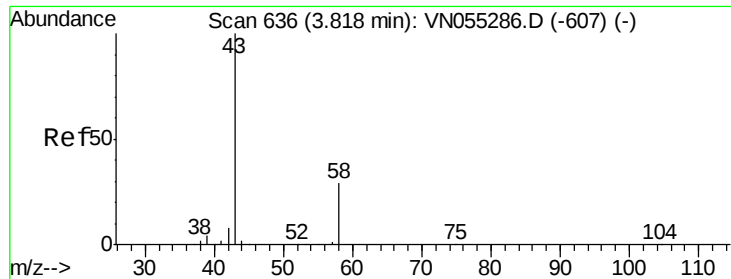
200

100

0

Time-->





#16

Acetone

Concen: 0.746 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

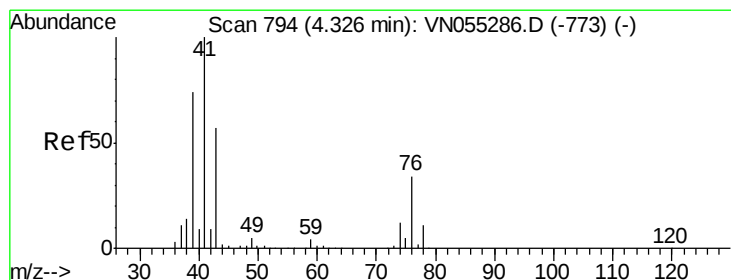
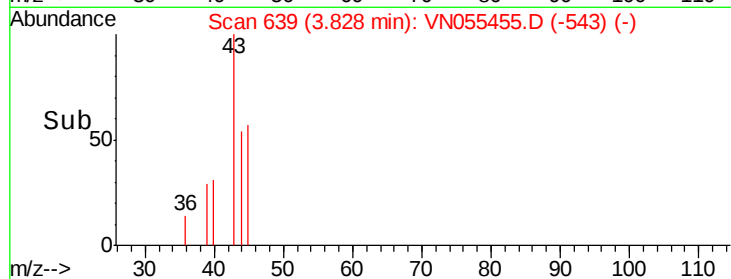
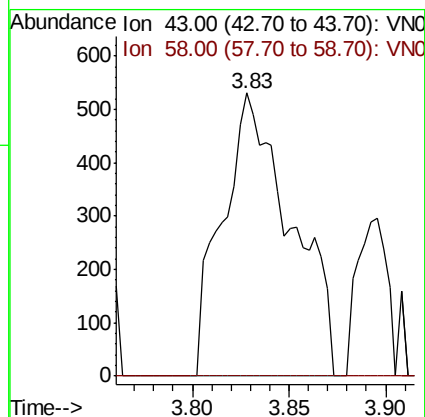
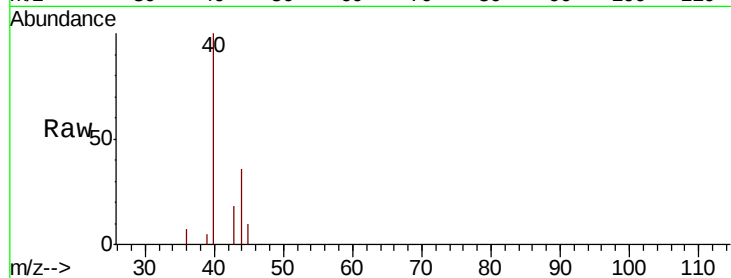
P026-SS001-0612-01

Tot Ion: 43 Resp: 1307

Ion Ratio Lower Upper

43 100

58 0.0 23.6 35.4#



#18

Methyl Acetate

Concen: 1.006 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055455.D

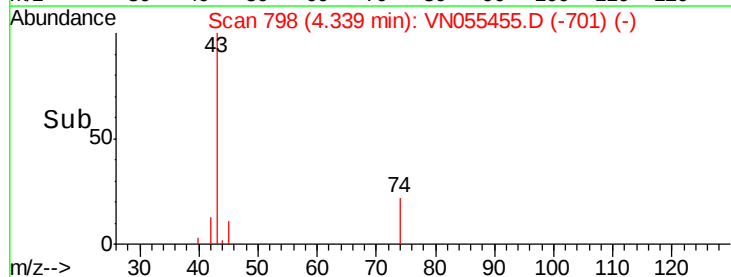
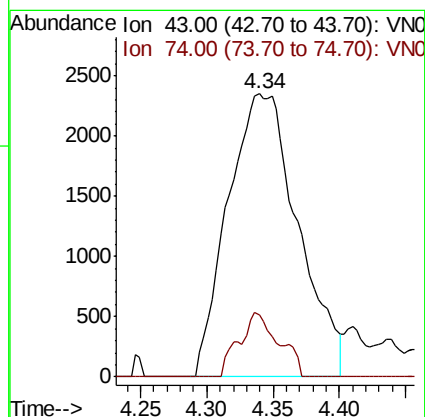
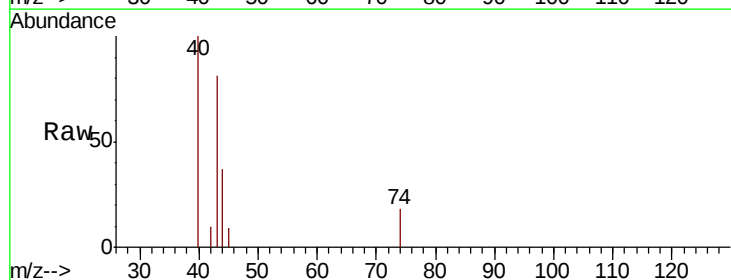
Acq: 7 May 2019 23:28

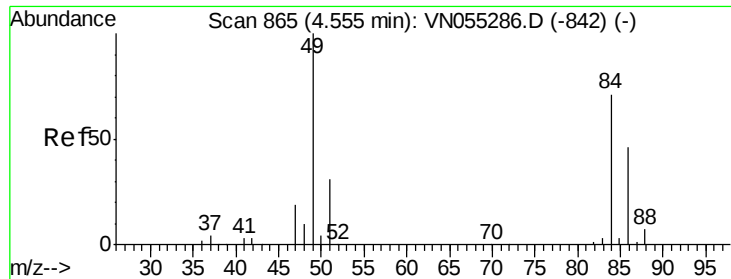
Tgt Ion: 43 Resp: 8632

Ion Ratio Lower Upper

43 100

74 12.8 15.8 23.8#

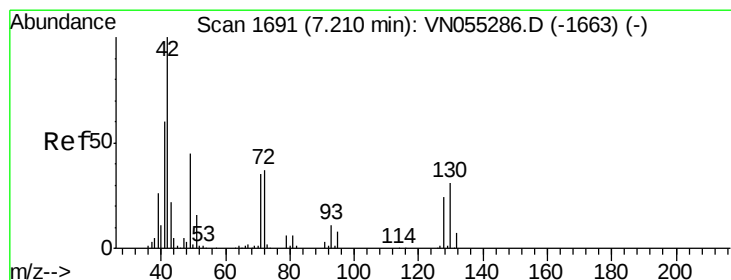
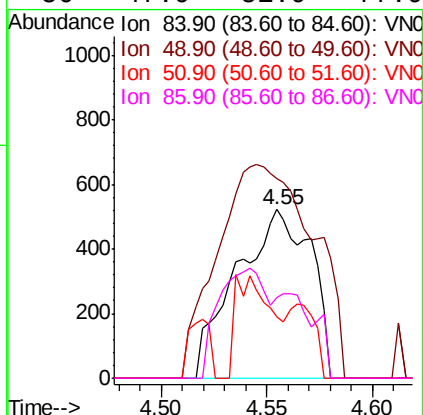
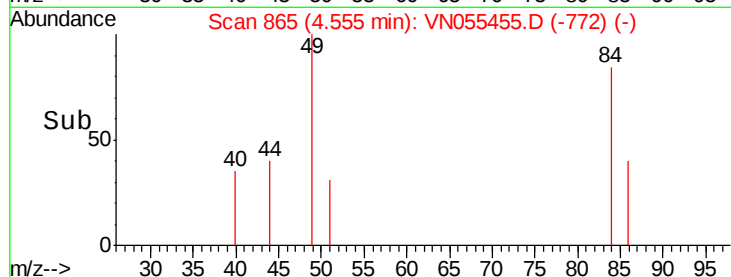
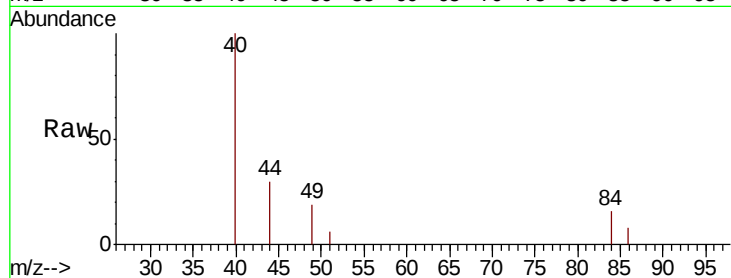




#20
Methvlene Chloride
Concen: 0.240 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

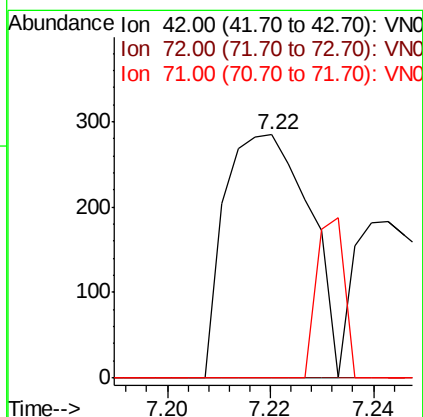
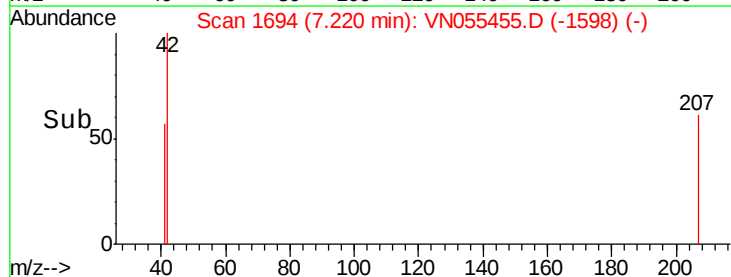
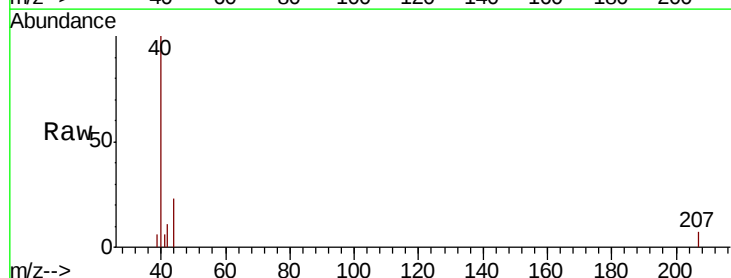
Instrument :
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P026-SS001-0612-01

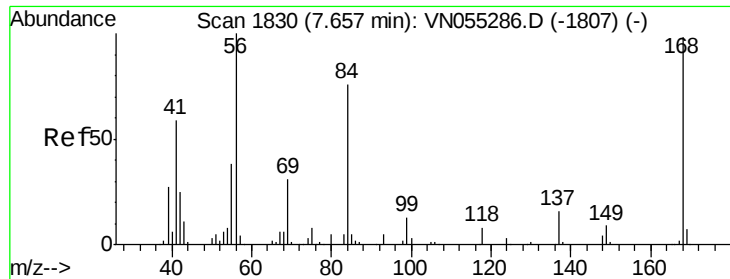
Tot Ion: 84 Resp: 1286
Ion Ratio Lower Upper
84 100
49 89.5 112.4 168.6#
51 36.4 34.6 51.8
86 47.9 51.9 77.9#



#29
Tetrahydrofuran
Concen: 0.225 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

Tgt Ion: 42 Resp: 323
Ion Ratio Lower Upper
42 100
72 0.0 29.0 43.6#
71 0.0 27.1 40.7#

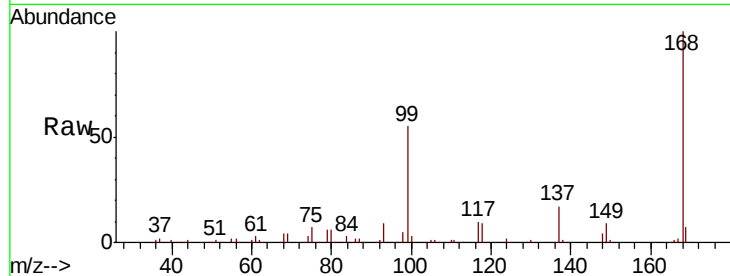




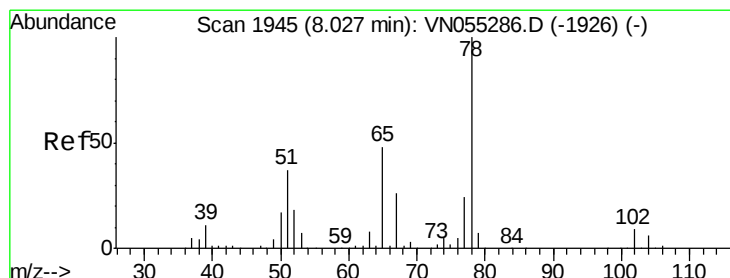
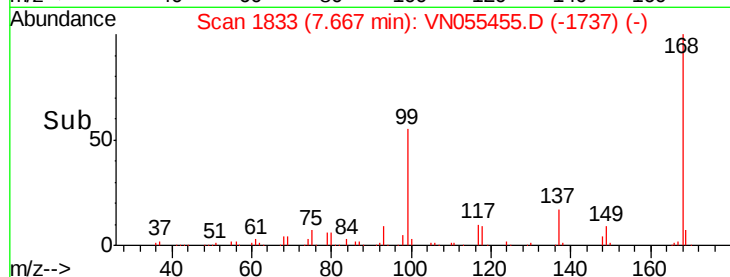
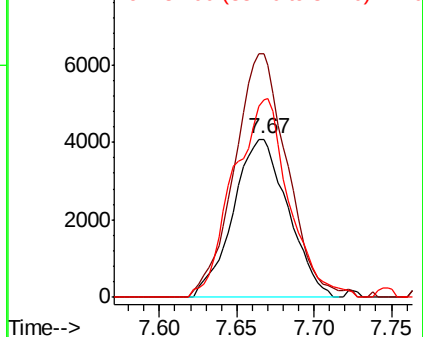
#31
Cyclohexane
Concen: 1.137 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

Instrument :
MSVOA_N
ClientSampleId :
P026-SS001-0612-01

Tot Ion: 56 Resp: 10062
Ion Ratio Lower Upper
56 100
69 154.0 25.2 37.8#
84 124.9 61.1 91.7#

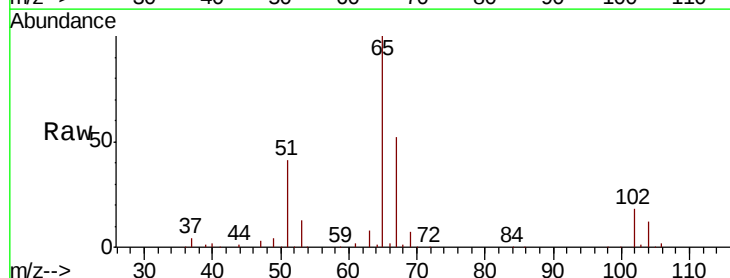


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

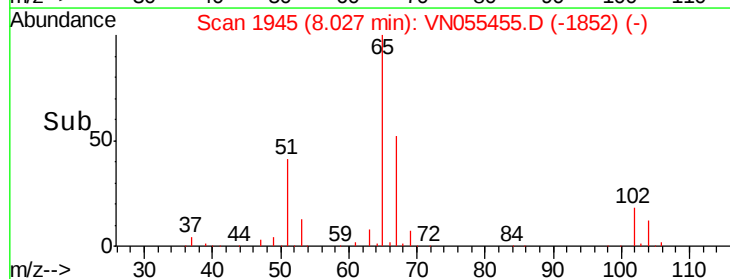
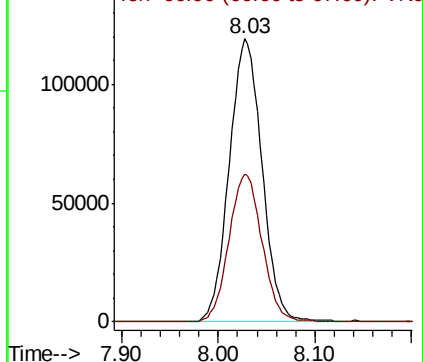


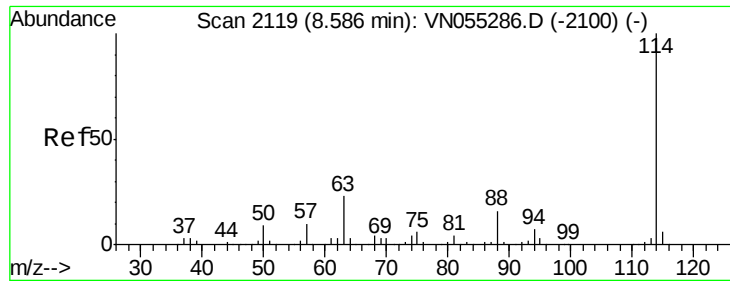
#33
1,2-Dichloroethane-d4
Concen: 49.910 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

Tgt Ion: 65 Resp: 280807
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0612-01

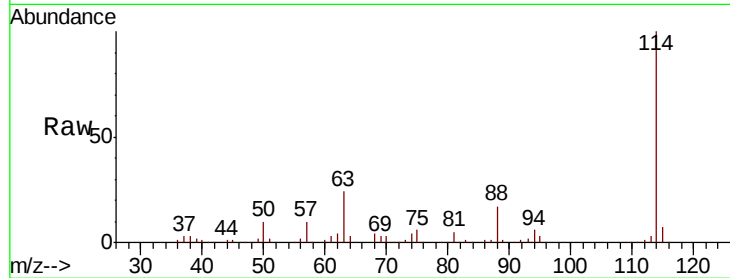
Tot Ion:114 Resp: 669107

Ion Ratio Lower Upper

114 100

63 23.7 0.0 45.2

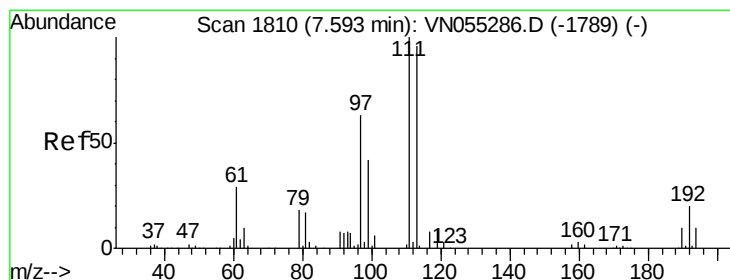
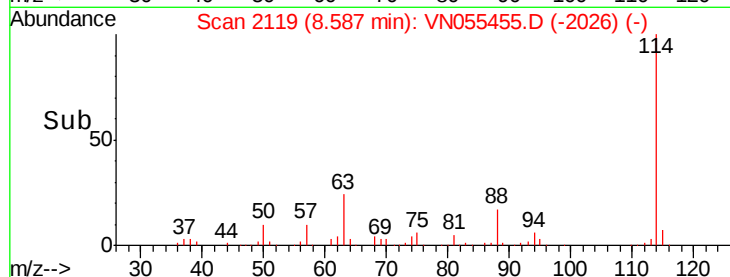
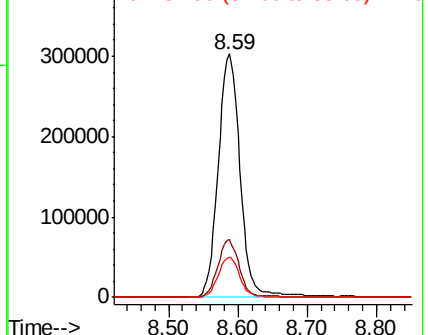
88 16.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.747 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

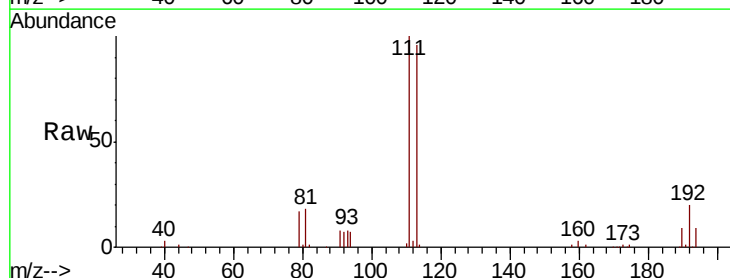
Tgt Ion:113 Resp: 209697

Ion Ratio Lower Upper

113 100

111 102.7 82.3 123.5

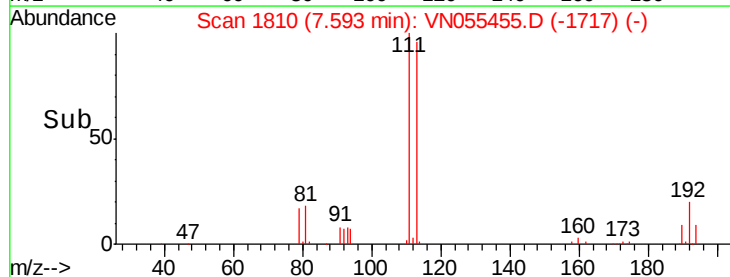
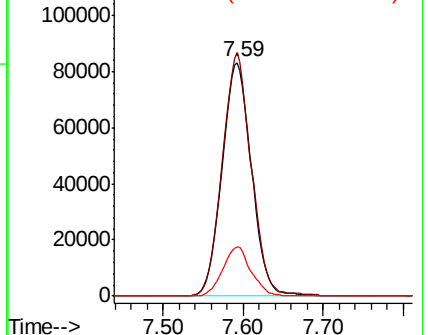
192 20.4 17.0 25.6

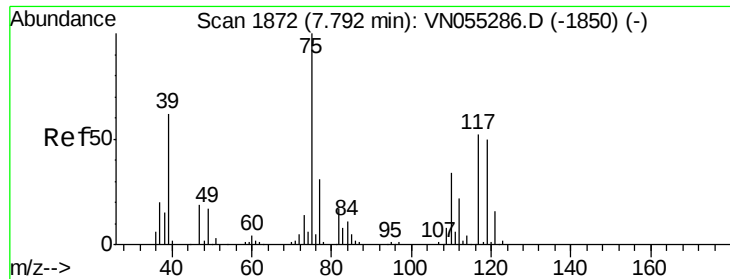


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.240 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

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P026-SS001-0612-01

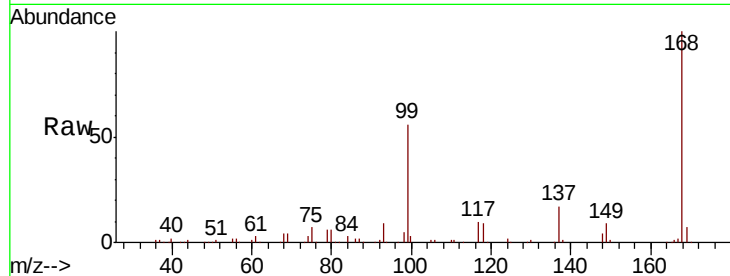
Tot Ion: 75 Resp: 33584

Ion Ratio Lower Upper

75 100

110 9.4 16.8 50.4#

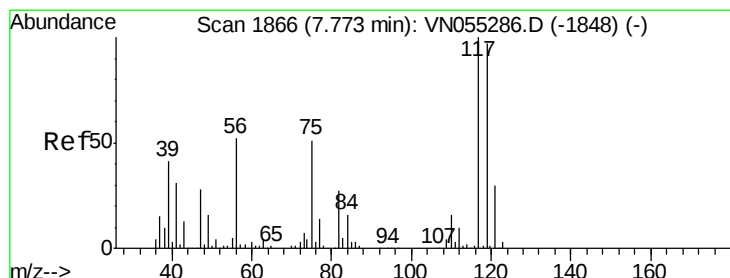
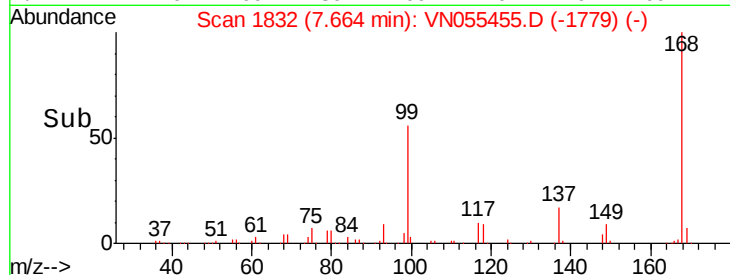
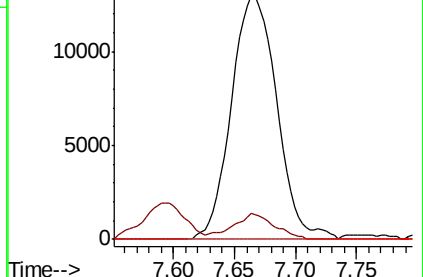
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055286.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN055286.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN055286.D (-1850) (-)



#38

Carbon Tetrachloride

Concen: 6.708 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

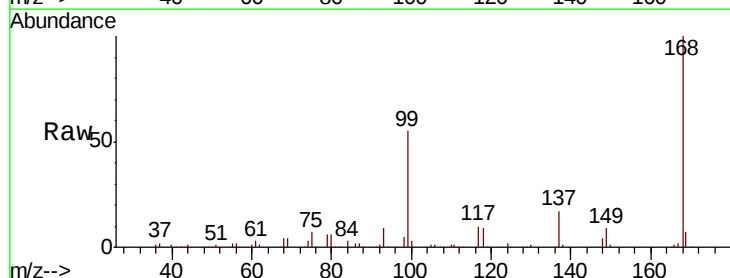
Tgt Ion: 117 Resp: 41473

Ion Ratio Lower Upper

117 100

119 4.8 77.0 115.6#

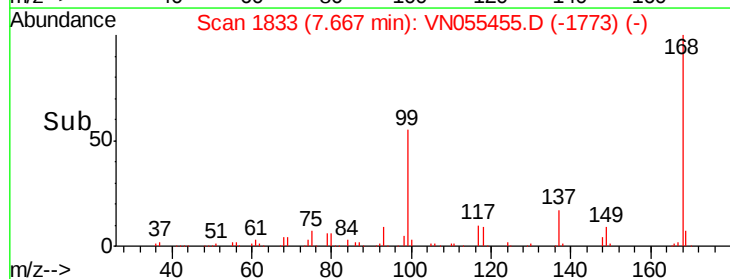
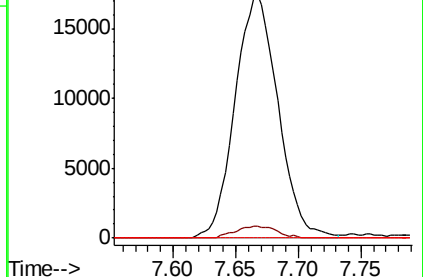
121 0.0 23.8 35.8#

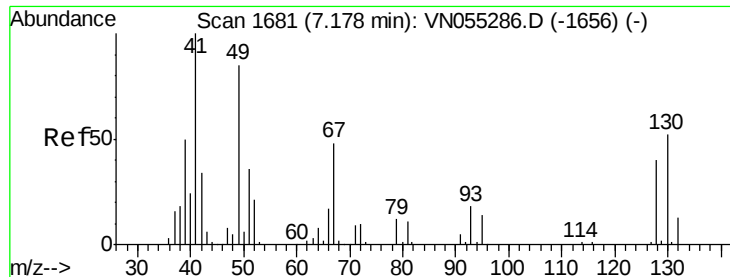


Abundance Ion 116.80 (116.50 to 117.50): VN055286.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN055286.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN055286.D (-1848) (-)

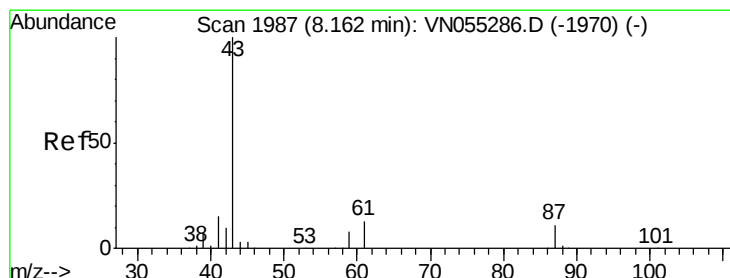
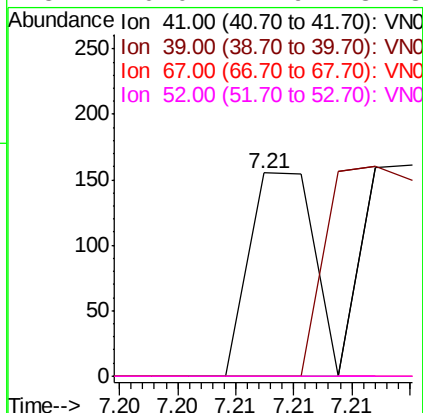
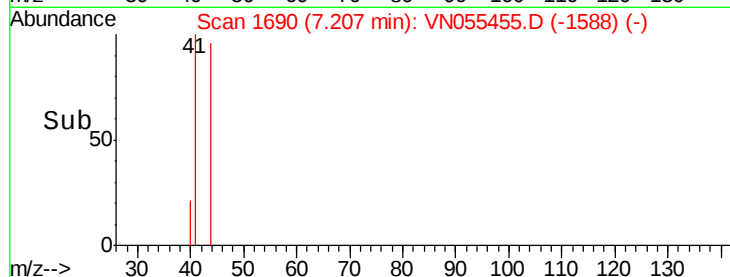
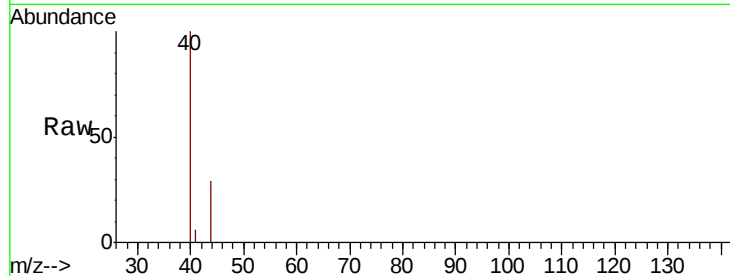




#41
Methacrylonitrile
Concen: 0.762 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.03 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

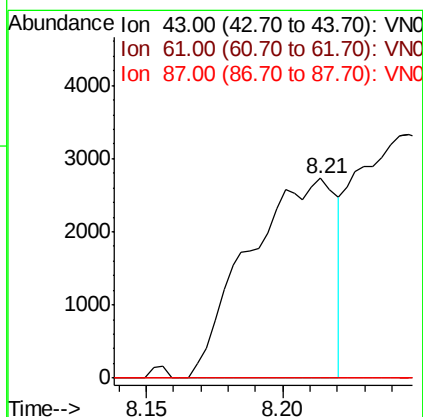
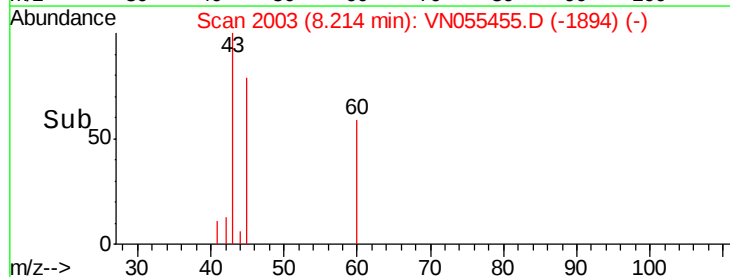
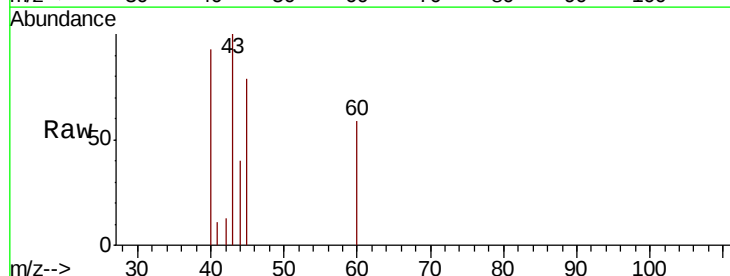
Instrument :
MSVOA_N
ClientSampleId :
P026-SS001-0612-01

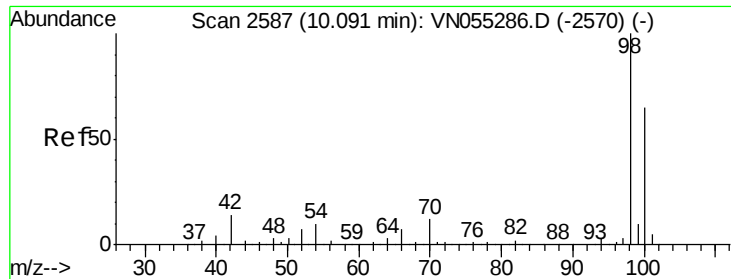
Tot Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
39 0.0 48.5 72.7#
67 0.0 54.9 82.3#
52 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 0.773 ug/l
RT: 8.21 min Scan# 2003
Delta R.T. 0.05 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

Tgt Ion: 43 Resp: 6105
Ion Ratio Lower Upper
43 100
61 0.0 20.8 31.2#
87 0.0 8.5 12.7#





#50

Toluene-d8

Concen: 49.660 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

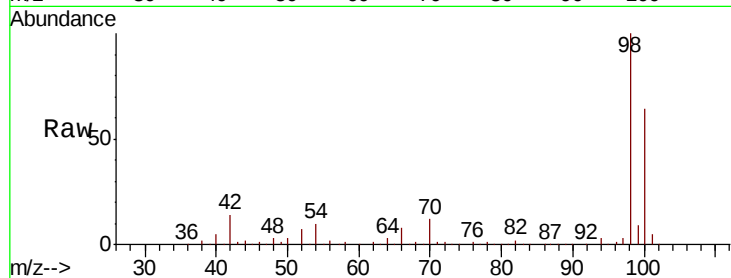
P026-SS001-0612-01

Tot Ion: 98 Resp: 787527

Ion Ratio Lower Upper

98 100

100 63.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN055286.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055286.D (-2570) (-)

10.09

400000

300000

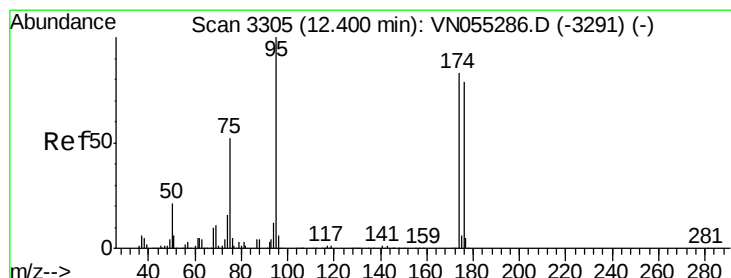
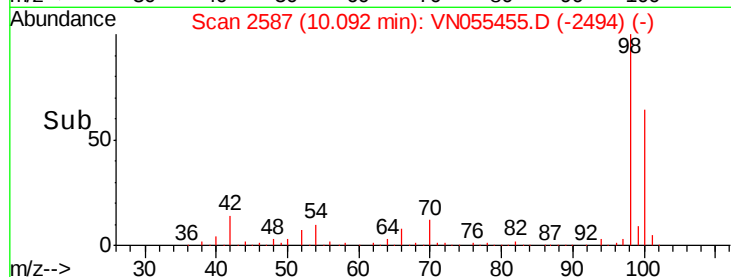
200000

100000

0

10.00 10.10 10.20 10.30

Time-->



#62

4-Bromofluorobenzene

Concen: 49.845 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

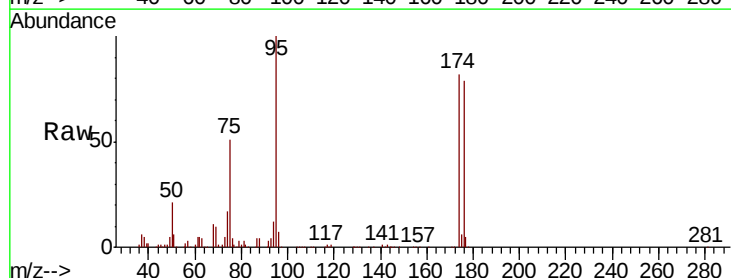
Tgt Ion: 95 Resp: 247047

Ion Ratio Lower Upper

95 100

174 81.6 0.0 166.6

176 78.8 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN055286.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055286.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055286.D (-3291) (-)

12.40

150000

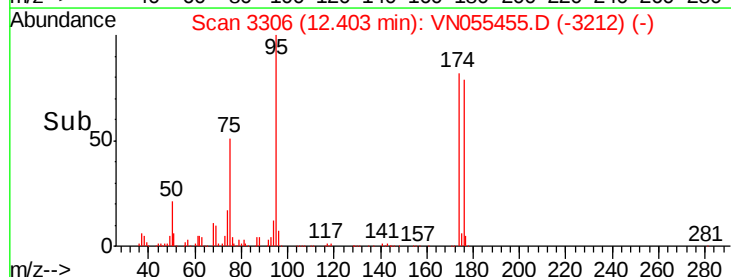
100000

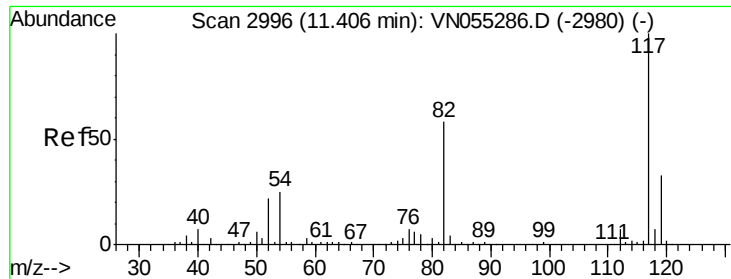
50000

0

12.35 12.40 12.45

Time-->

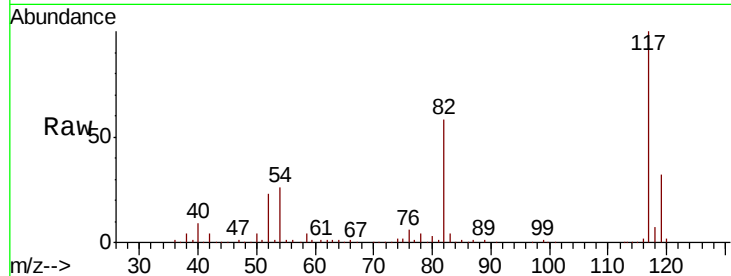




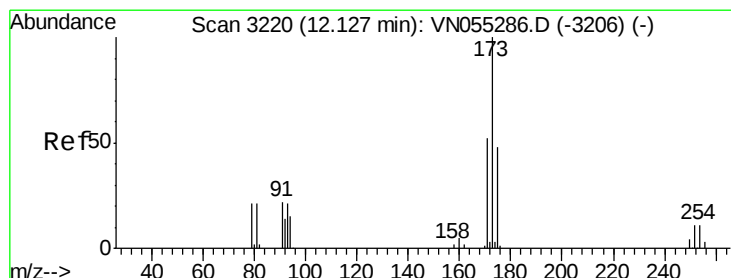
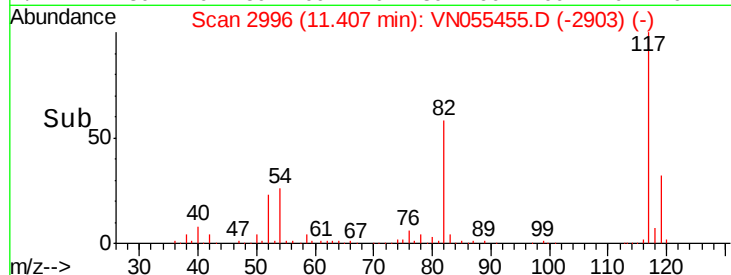
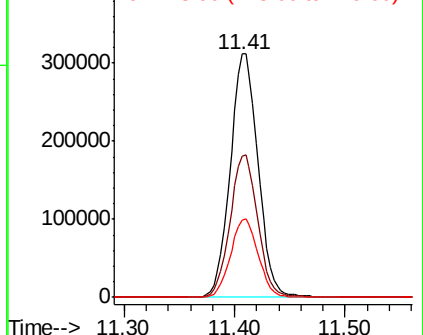
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

Instrument :
MSVOA_N
ClientSampleId :
P026-SS001-0612-01

Tot Ion:117 Resp: 544543
Ion Ratio Lower Upper
117 100
82 58.3 46.2 69.4
119 32.0 26.6 40.0

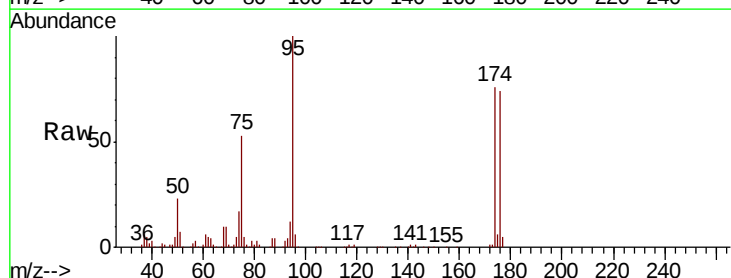


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

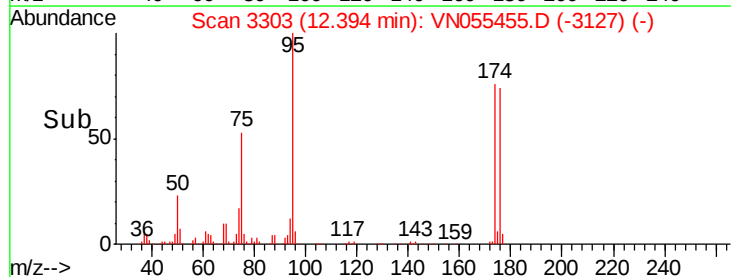
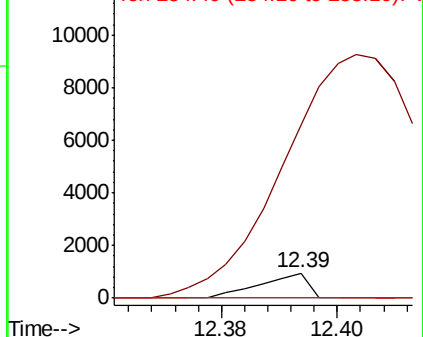


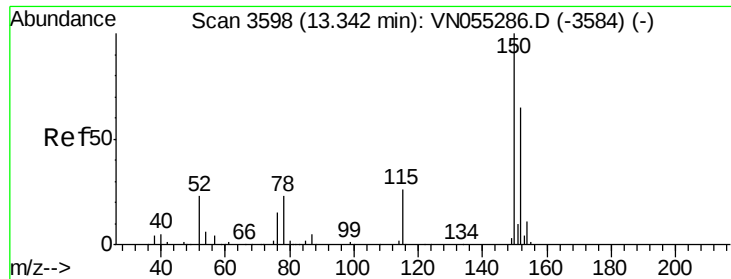
#71
Bromoform
Concen: 0.236 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN055455.D
Acq: 7 May 2019 23:28

Tgt Ion:173 Resp: 546
Ion Ratio Lower Upper
173 100
175 2470.7 23.6 71.0#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0612-01

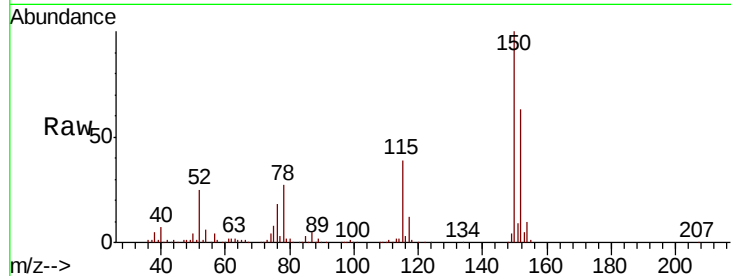
Tot Ion:152 Resp: 190004

Ion Ratio Lower Upper

152 100

115 59.8 29.0 87.0

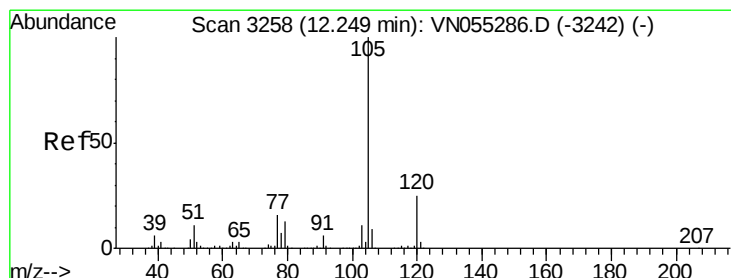
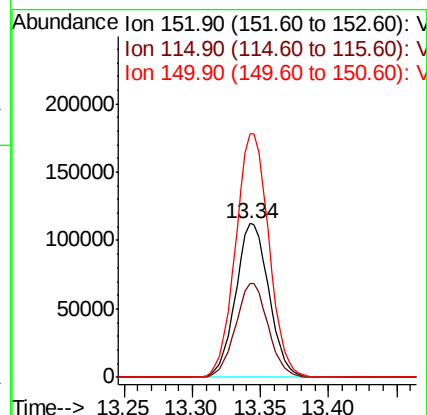
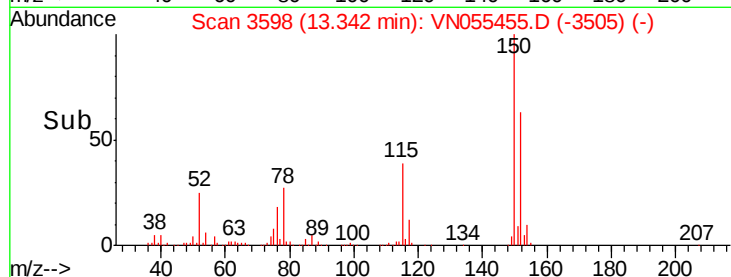
150 159.2 0.0 345.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055455.D

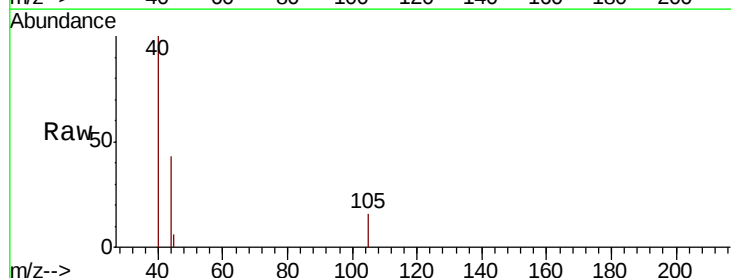
Acq: 7 May 2019 23:28

Tgt Ion:105 Resp: 393

Ion Ratio Lower Upper

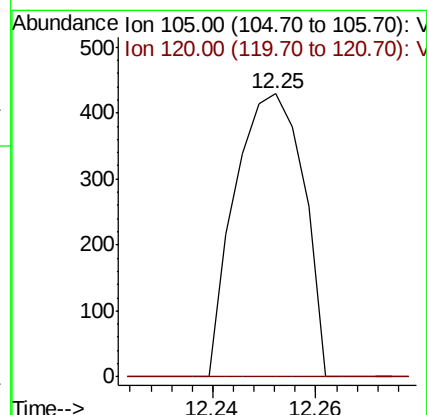
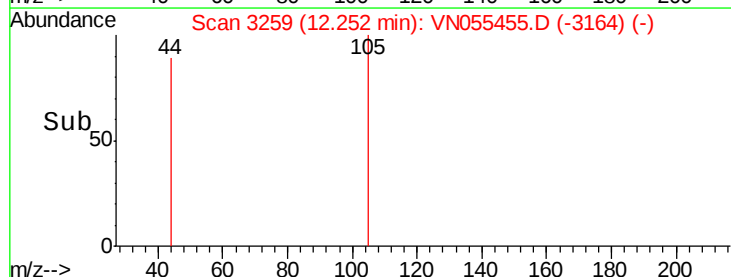
105 100

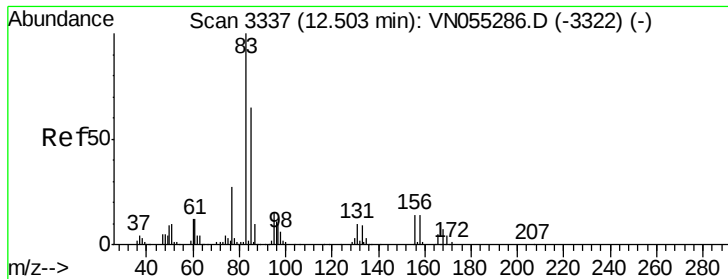
120 0.0 12.9 38.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0612-01

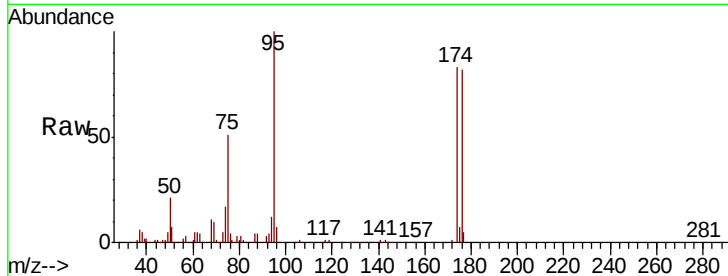
Tot Ion: 83 Resp: 136

Ion Ratio Lower Upper

83 100

131 198.5 5.1 15.2#

85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

400

300

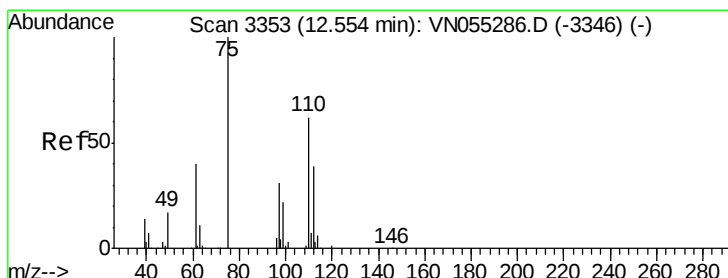
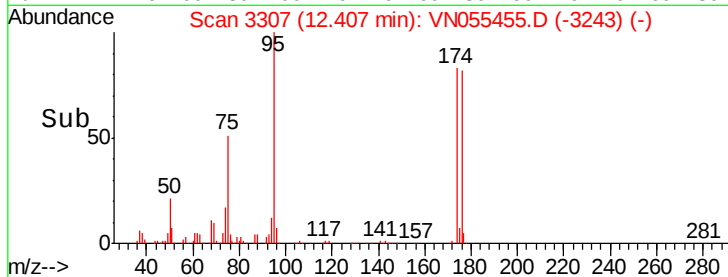
200

100

0

12.40 12.41 12.42

Time-->



#76

1,2,3-Trichloropropane

Concen: 35.571 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055455.D

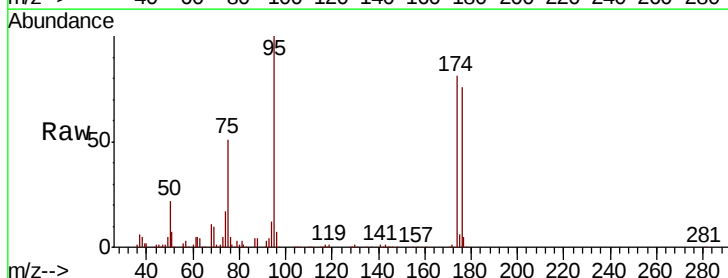
Acq: 7 May 2019 23:28

Tgt Ion: 75 Resp: 128193

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

80000

60000

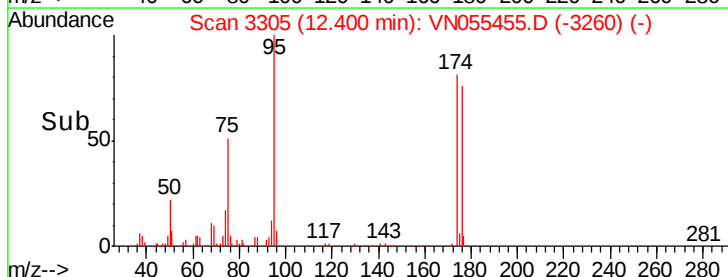
40000

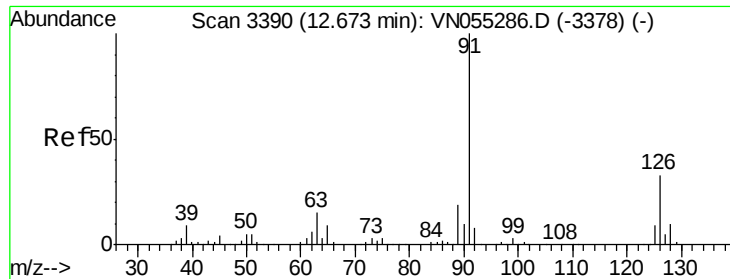
20000

0

12.35 12.40 12.45

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

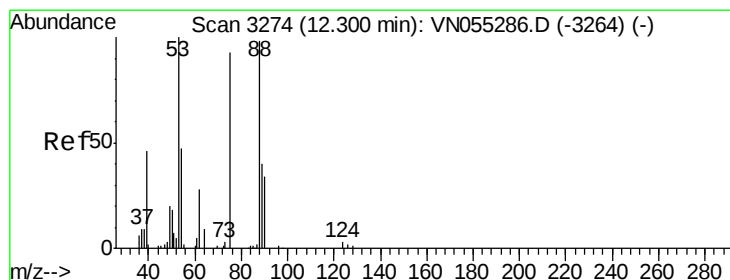
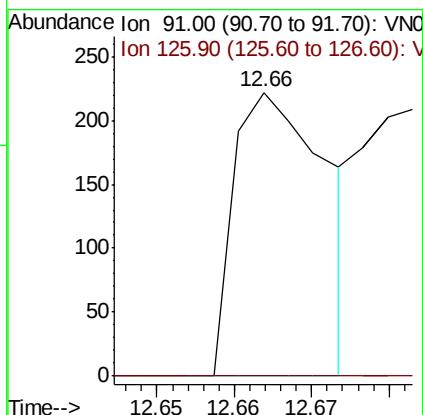
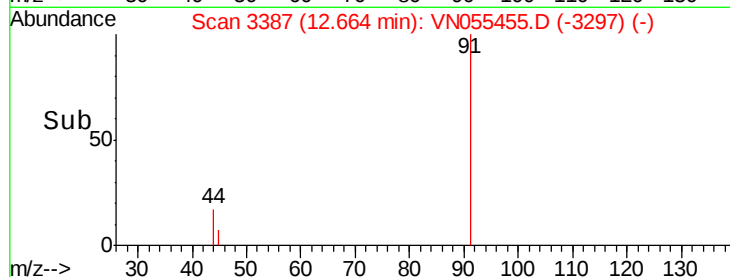
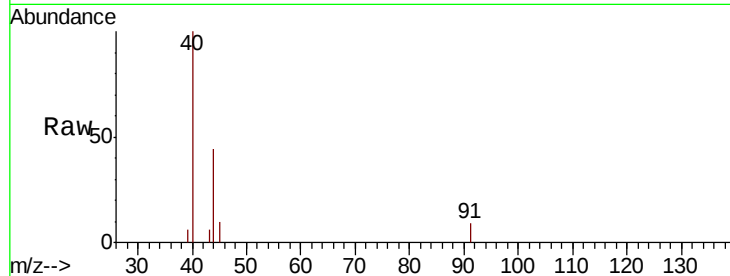
P026-SS001-0612-01

Tot Ion: 91 Resp: 184

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 127.858 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

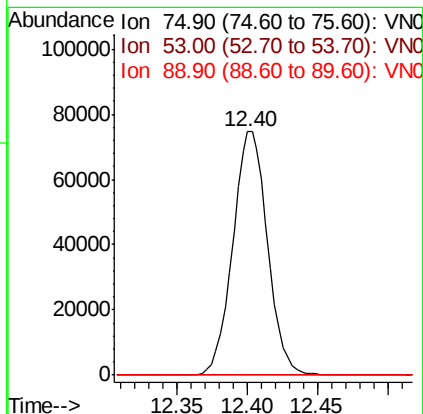
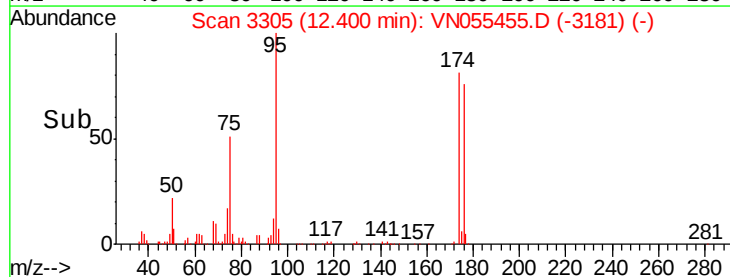
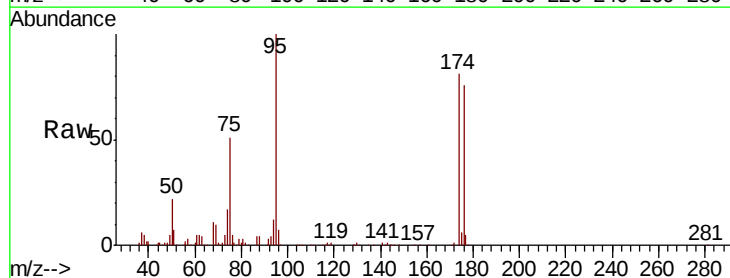
Tgt Ion: 75 Resp: 128193

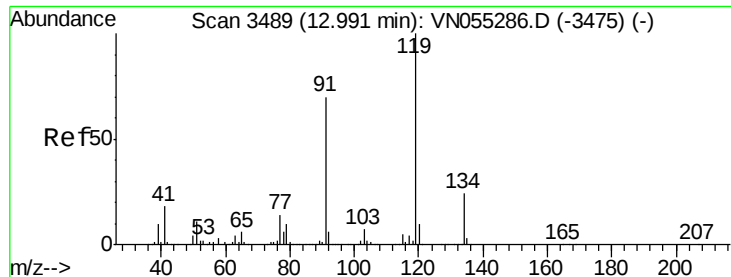
Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

89 0.0 34.6 51.8#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0612-01

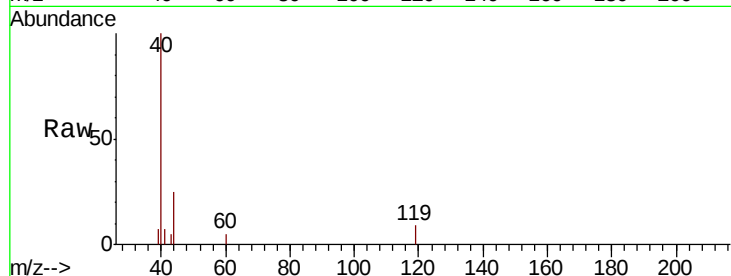
Tot Ion:119 Resp: 268

Ion Ratio Lower Upper

119 100

91 0.0 34.3 102.9#

134 0.0 13.1 39.3#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V

12.99

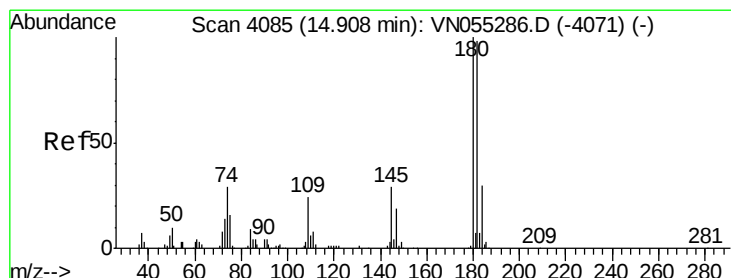
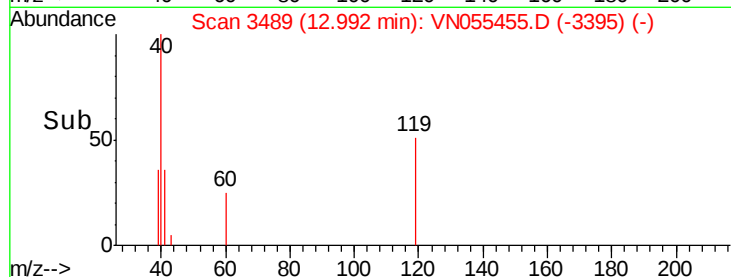
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.458 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

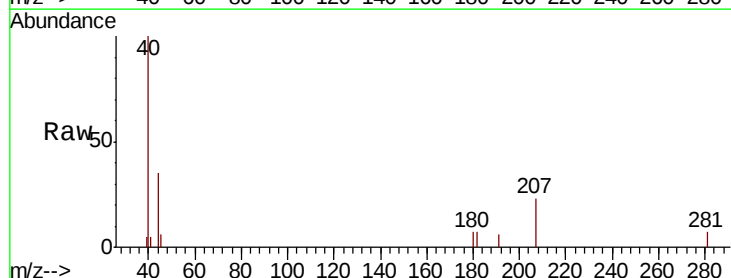
Tgt Ion:180 Resp: 392

Ion Ratio Lower Upper

180 100

182 42.1 48.3 144.9#

145 0.0 14.2 42.6#



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

14.91

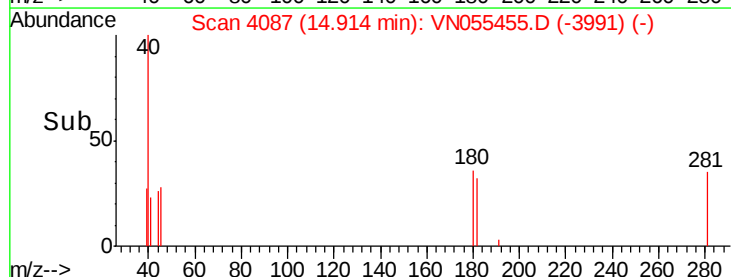
300

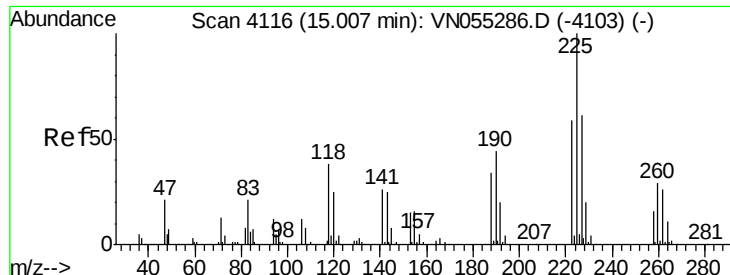
200

100

0

Time-->





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0612-01

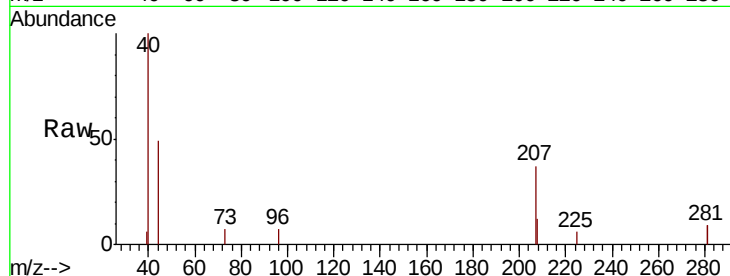
Tot Ion:225 Resp: 96

Ion Ratio Lower Upper

225 100

223 0.0 30.3 90.8#

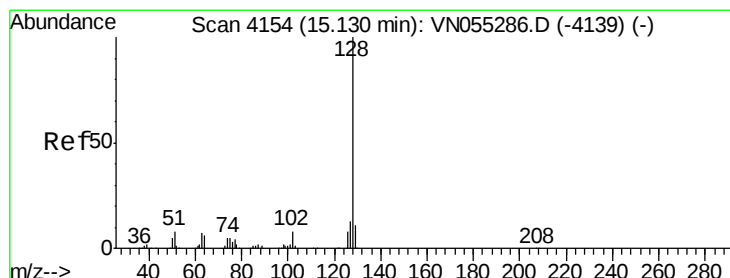
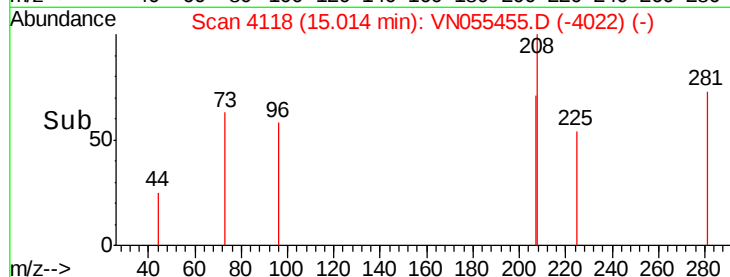
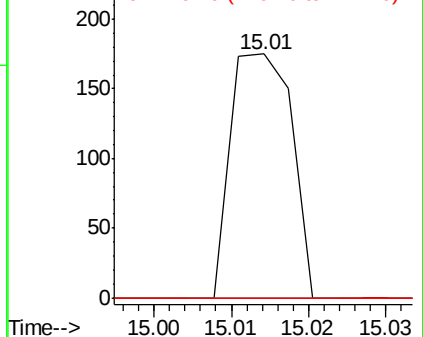
227 0.0 30.9 92.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.404 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055455.D

Acq: 7 May 2019 23:28

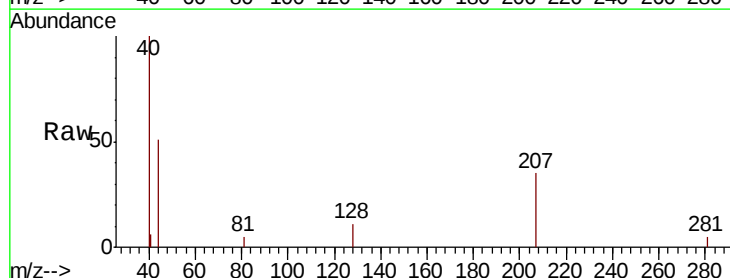
Tgt Ion:128 Resp: 430

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

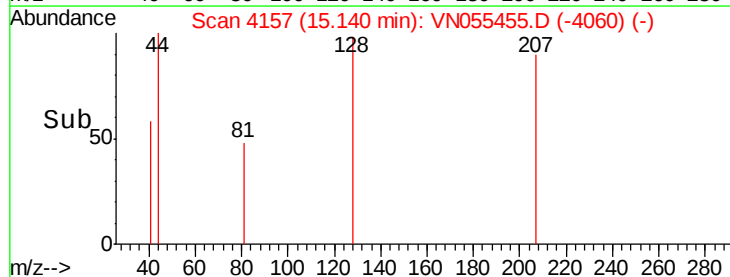
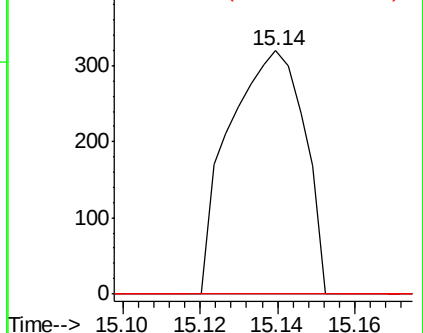
129 0.0 8.6 13.0#

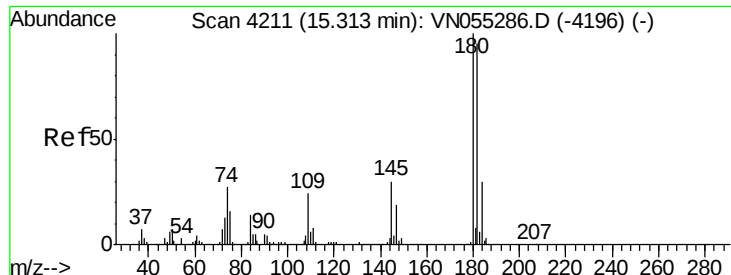


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

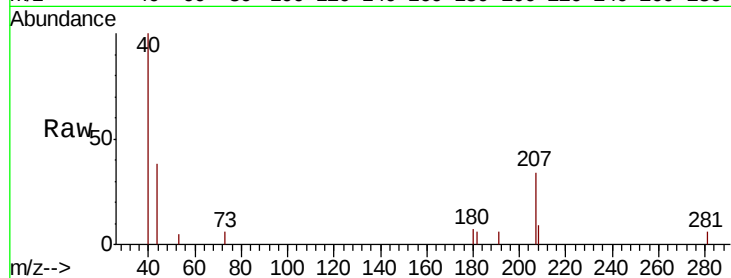




#96
 1,2,3-Trichlorobenzene
 Concen: 2.699 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN055455.D
 Acq: 7 May 2019 23:28

Instrument :
 MSVOA_N
 ClientSampleId :
 P026-SS001-0612-01

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.3	48.3	144.9
145	0.0	15.2	45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

