

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050619\
 Data File : VN055416.D
 Acq On : 6 May 2019 15:24
 Operator : JC/SP
 Sample : K2667-03
 Misc : 3.59µ/5mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-1-B

Quant Time: May 07 01:09:13 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	7.66	168	516470	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	911629	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	840536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	318892	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	360764	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
35) Dibromofluoromethane	7.59	113	286903	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
50) Toluene-d8	10.09	98	1109587	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
62) 4-Bromofluorobenzene	12.40	95	399531	59.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.34%	

Target Compounds

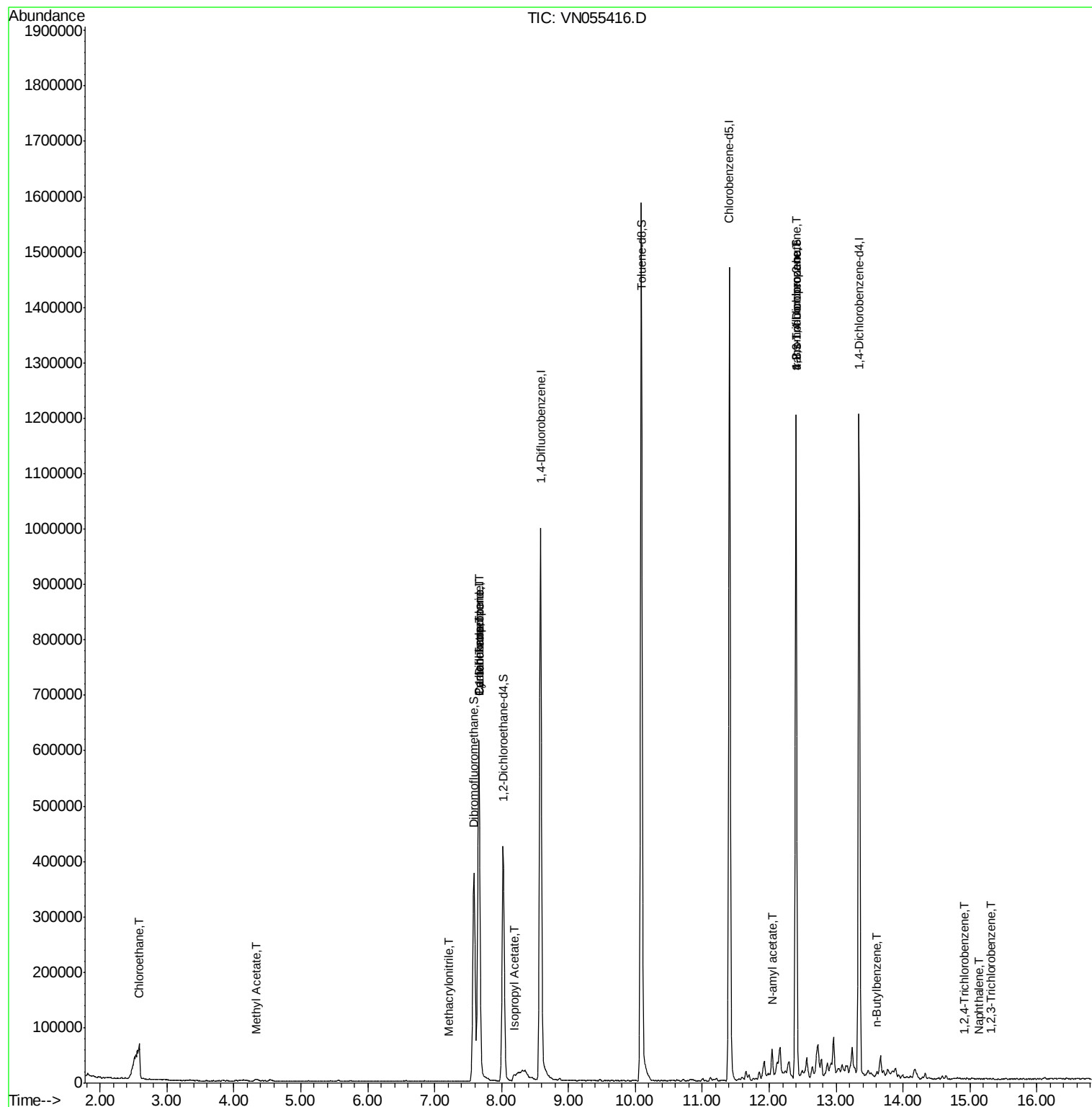
						Qvalue
6) Chloroethane	2.57	64	697	0.204	ug/l	96
18) Methyl Acetate	4.33	43	7945	0.524	ug/l #	70
31) Cyclohexane	7.65	56	12085	1.137	ug/l #	18
36) 1,1-Dichloropropene	7.66	75	39363	4.508	ug/l #	50
38) Carbon Tetrachloride	7.66	117	47932	5.690	ug/l #	16
41) Methacrylonitrile	7.22	41	245	0.807	ug/l #	50
43) Isopropyl Acetate	8.18	43	7019	0.653	ug/l #	56
73) Isopropylbenzene	12.25	105	1302	Below Cal		92
74) N-amyl acetate	12.04	43	12406	1.516	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.48	83	184	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	207150	34.150	ug/l #	100
77) Bromobenzene	12.40	156	124	Below Cal	#	1
79) 2-Chlorotoluene	12.78	91	624	Below Cal		77
81) trans-1,4-Dichloro-2-buten	12.40	75	207150	123.102	ug/l #	7
83) tert-Butylbenzene	12.99	119	334	Below Cal	#	72
89) n-Butylbenzene	13.62	91	4274	0.269	ug/l	91
90) Hexachloroethane	13.89	117	440	Below Cal	#	7
93) 1,2,4-Trichlorobenzene	14.91	180	223	3.361	ug/l #	46
95) Naphthalene	15.14	128	1480	3.484	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.31	180	111	2.638	ug/l #	1

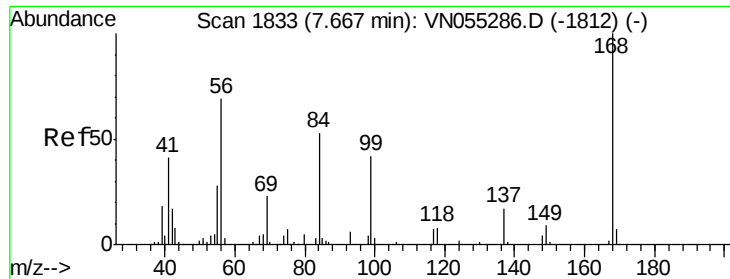
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
SP-1-B

Quant Time: May 07 01:09:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
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: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

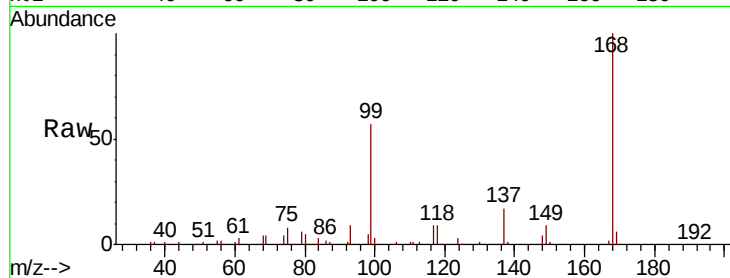
SP-1-B

Tot Ion:168 Resp: 516470

Ion Ratio Lower Upper

168 100

99 56.5 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN055286.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055286.D (-1812) (-)

7.66

200000

150000

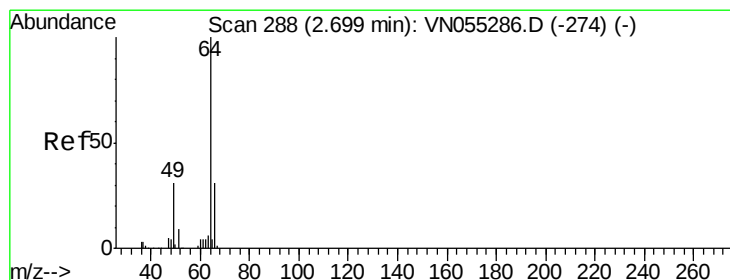
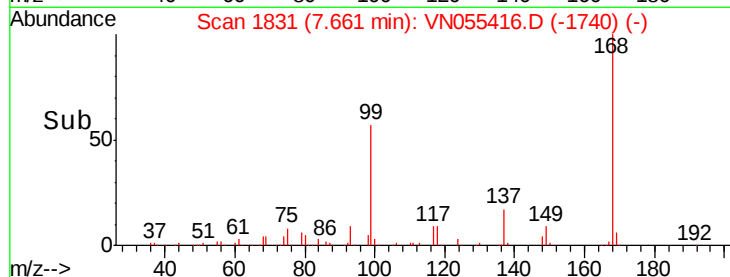
100000

50000

0

7.60 7.70 7.80

Time-->



#6

Chloroethane

Concen: 0.204 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.13 min

Lab File: VN055416.D

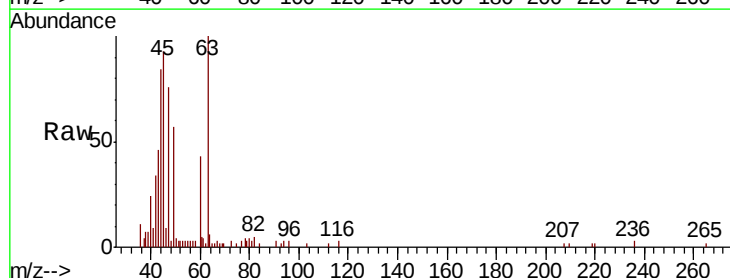
Acq: 6 May 2019 15:24

Tgt Ion: 64 Resp: 697

Ion Ratio Lower Upper

64 100

66 33.3 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN055286.D (-274) (-)

Ion 65.90 (65.60 to 66.60): VN055286.D (-274) (-)

2.57

500

400

300

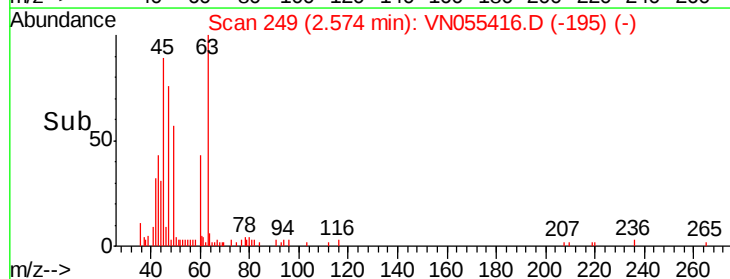
200

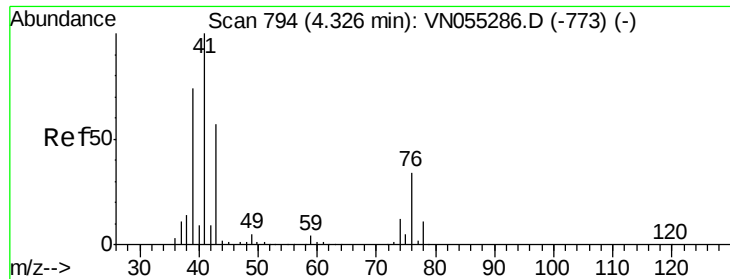
100

0

2.56 2.58 2.60

Time-->

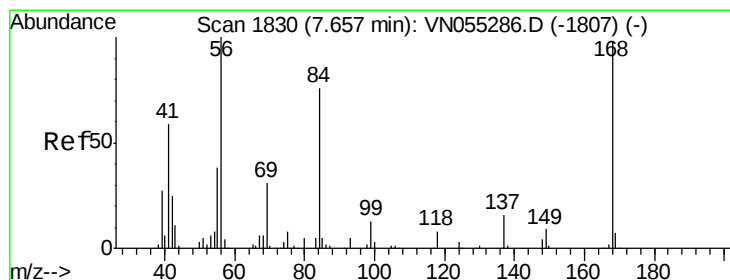
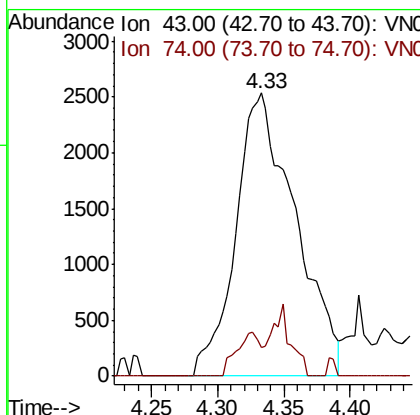
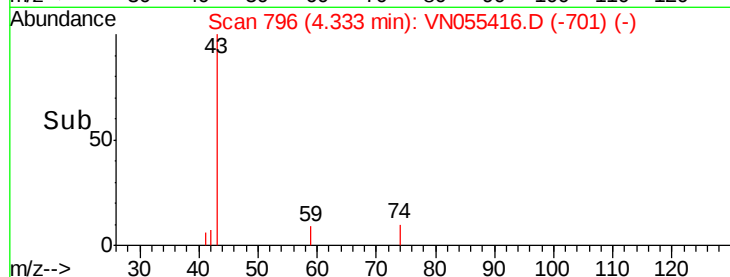
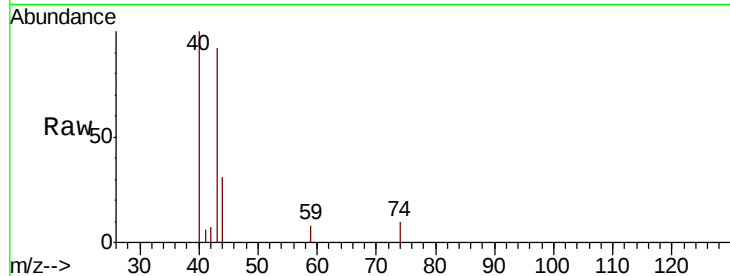




#18
Methvl Acetate
Concen: 0.524 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

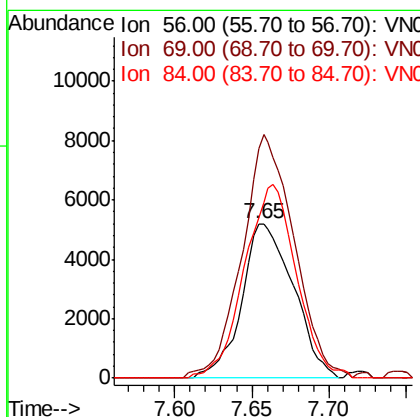
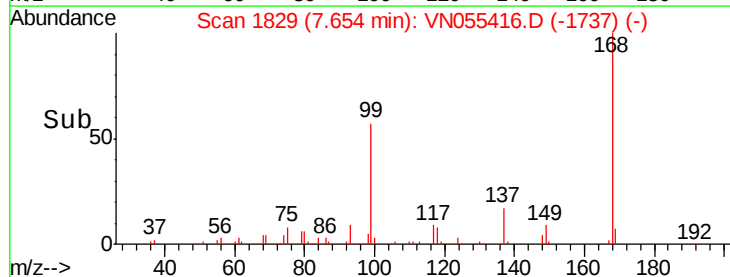
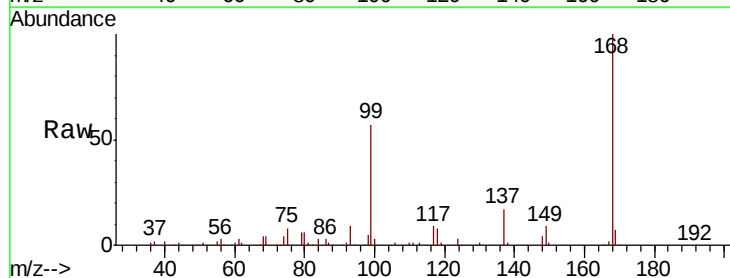
Instrument :
MSVOA_N
ClientSampleId :
SP-1-B

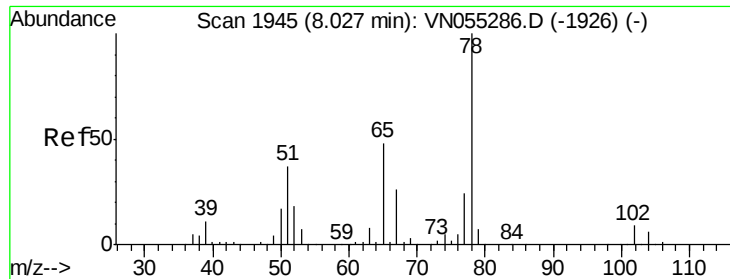
Tot Ion: 43 Resp: 7945
Ion Ratio Lower Upper
43 100
74 6.1 15.8 23.8#



#31
Cyclohexane
Concen: 1.137 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

Tgt Ion: 56 Resp: 12085
Ion Ratio Lower Upper
56 100
69 145.1 25.2 37.8#
84 103.6 61.1 91.7#

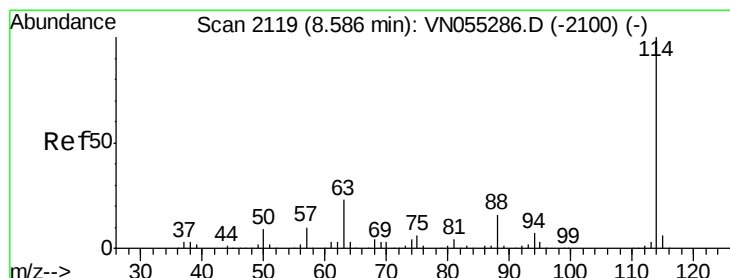
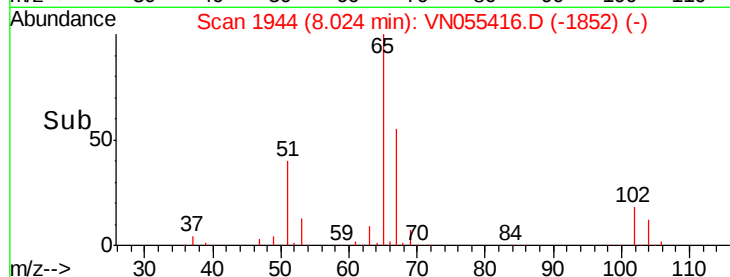
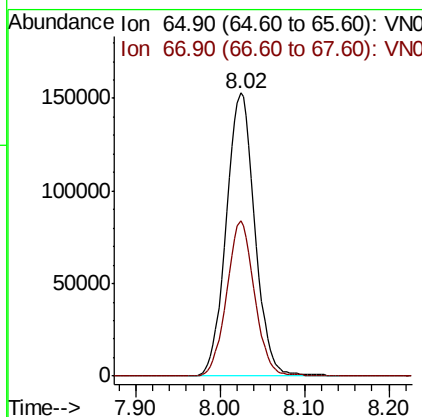
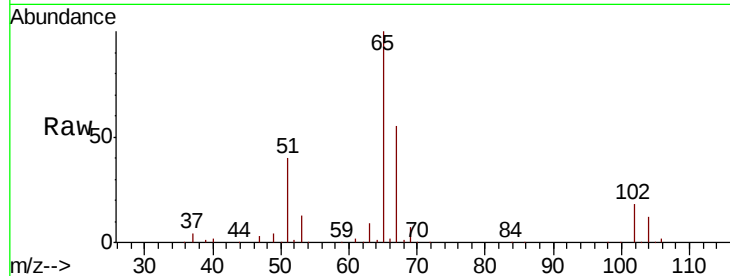




#33
 1,2-Dichloroethane-d4
 Concen: 53.394 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055416.D
 Acq: 6 May 2019 15:24

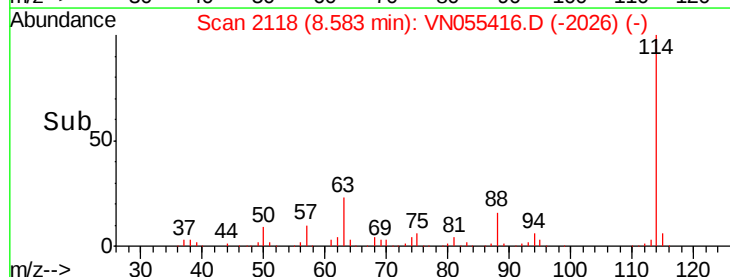
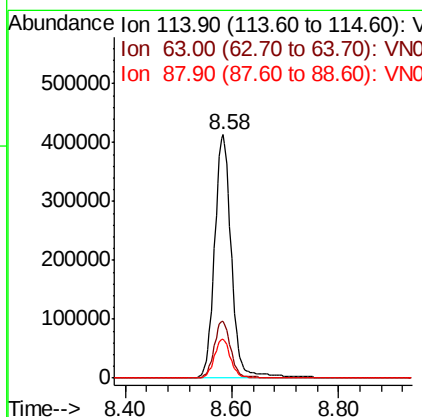
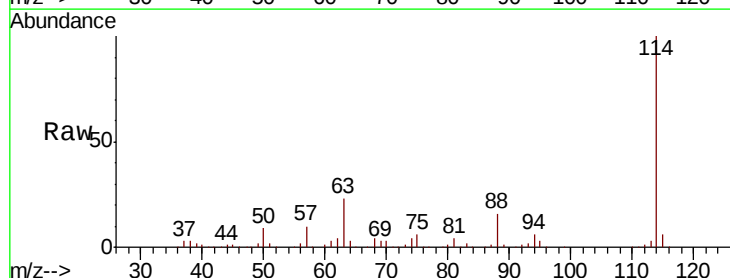
Instrument :
 MSVOA_N
 ClientSampleId :
 SP-1-B

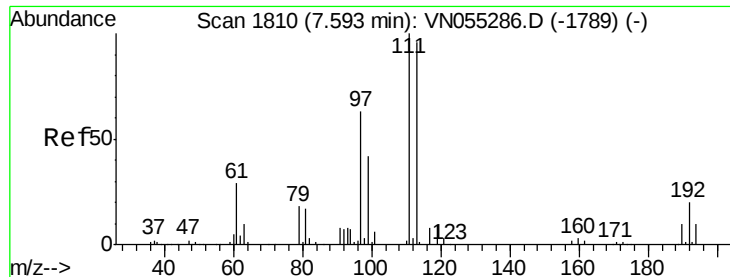
Tot Ion: 65 Resp: 360764
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055416.D
 Acq: 6 May 2019 15:24

Tgt Ion: 114 Resp: 911629
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.2
 88 16.0 0.0 31.6

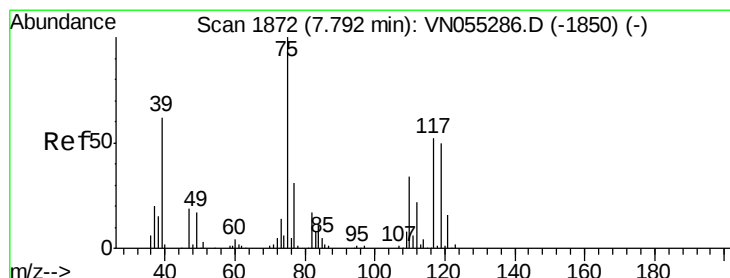
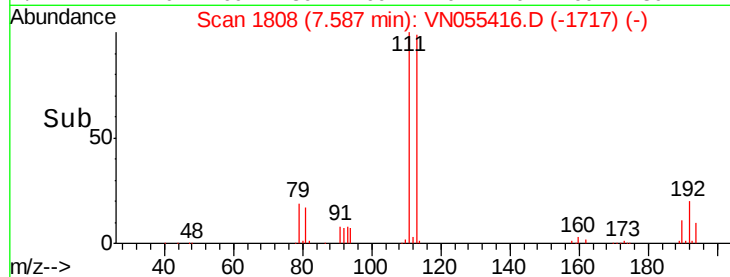
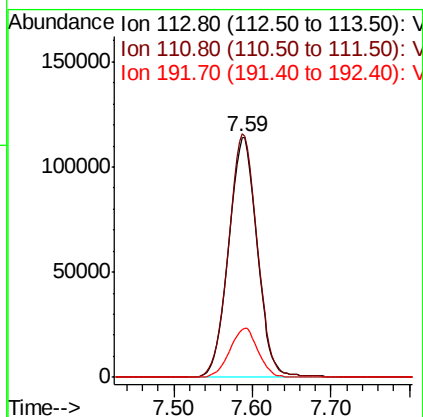
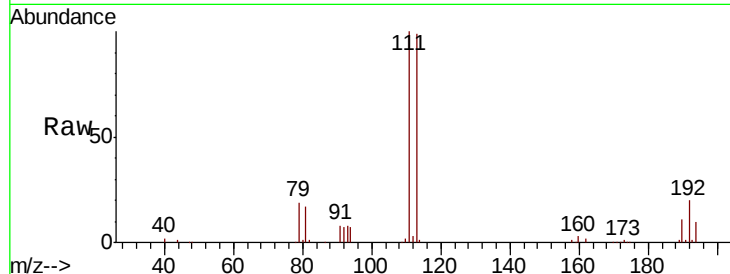




#35
 Dibromofluoromethane
 Concen: 47.948 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.01 min
 Lab File: VN055416.D
 Acq: 6 May 2019 15:24

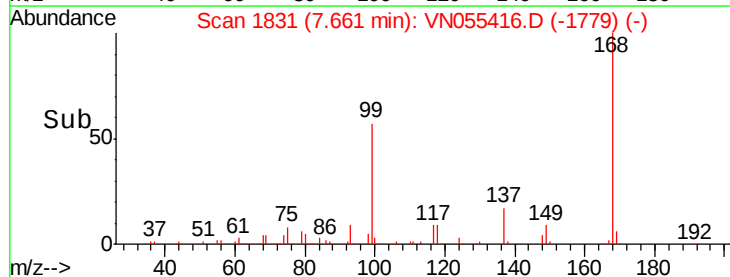
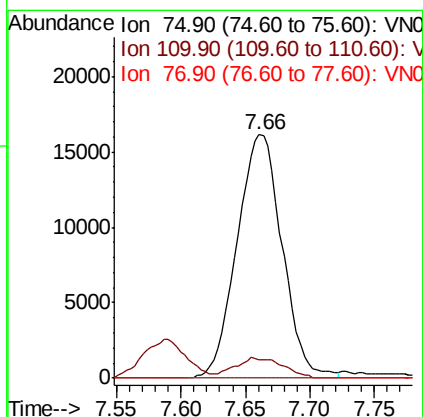
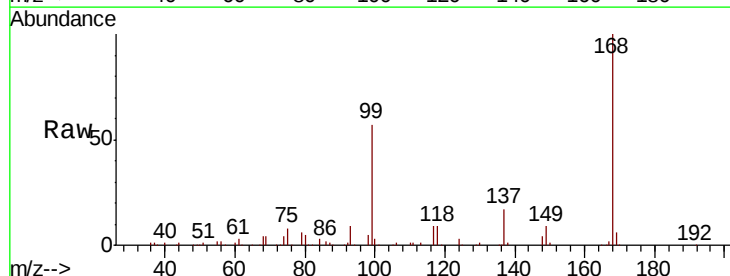
Instrument :
 MSVOA_N
 ClientSampleId :
 SP-1-B

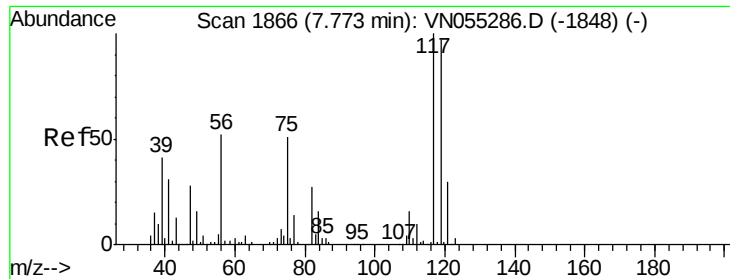
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.3	123.5
192	20.2	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.508 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055416.D
 Acq: 6 May 2019 15:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.8	50.4#
77	0.0	25.0	37.6#

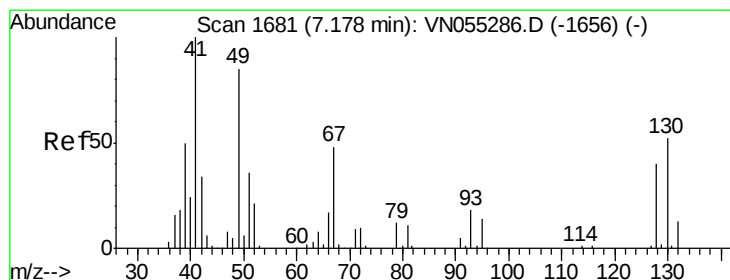
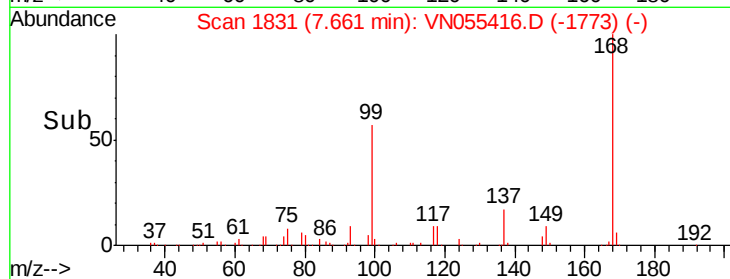
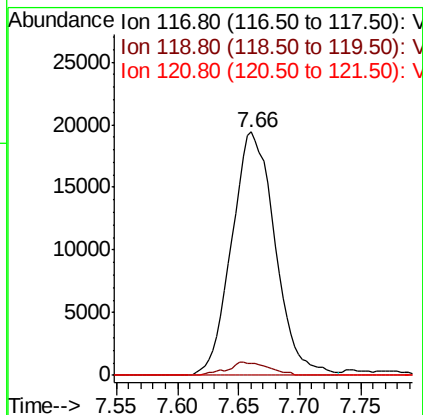
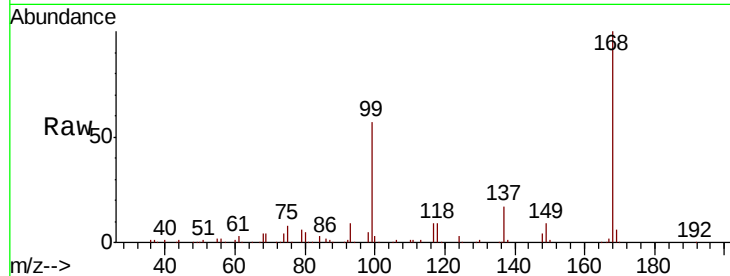




#38
Carbon Tetrachloride
Concen: 5.690 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

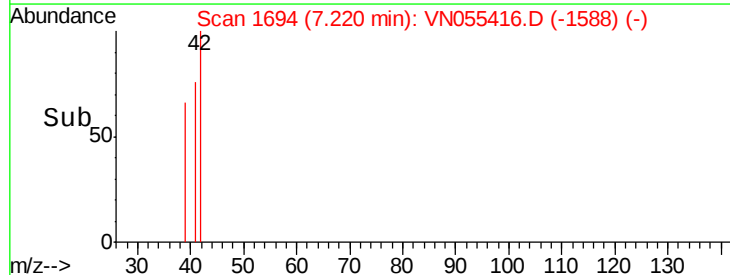
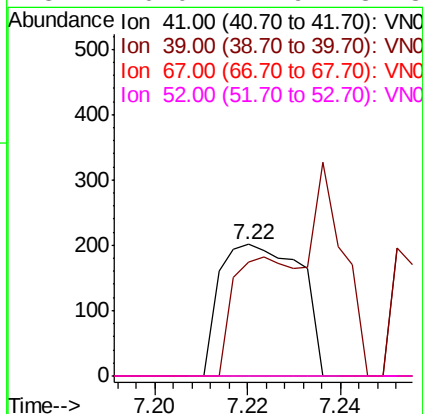
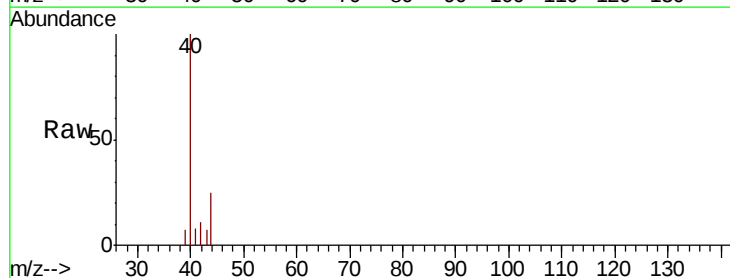
Instrument :
MSVOA_N
ClientSampled :
SP-1-B

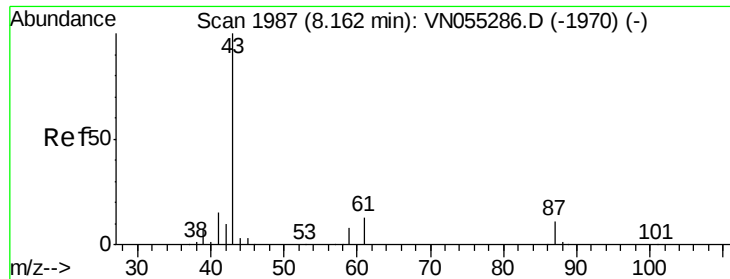
Tot Ion:117 Resp: 47932
Ion Ratio Lower Upper
117 100
119 4.9 77.0 115.6#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.807 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.04 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

Tgt Ion: 41 Resp: 245
Ion Ratio Lower Upper
41 100
39 66.5 48.5 72.7
67 0.0 54.9 82.3#
52 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 0.653 ug/l

RT: 8.18 min Scan# 1994

Delta R.T. 0.02 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

SP-1-B

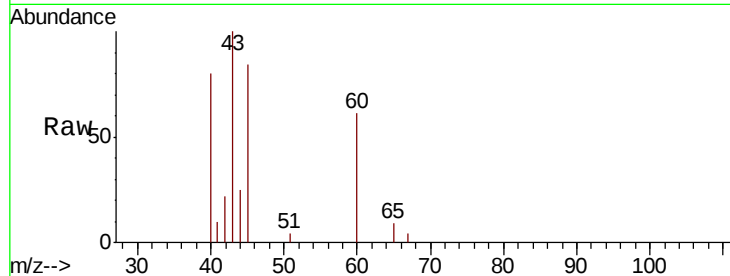
Tot Ion: 43 Resp: 7019

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

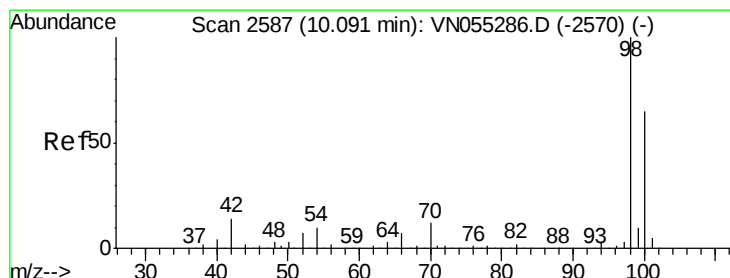
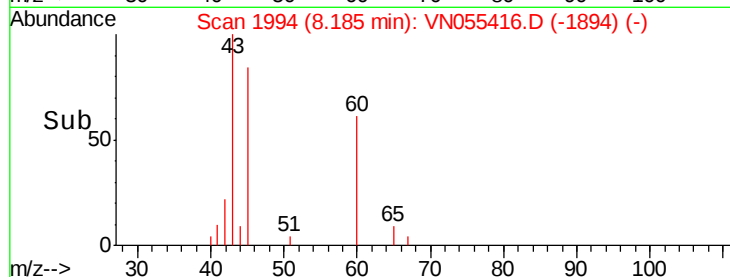
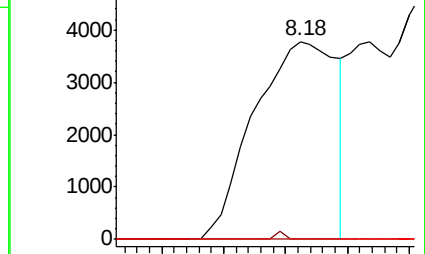
87 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VN055416.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN055416.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN055416.D (-1894) (-)



#50

Toluene-d8

Concen: 51.355 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055416.D

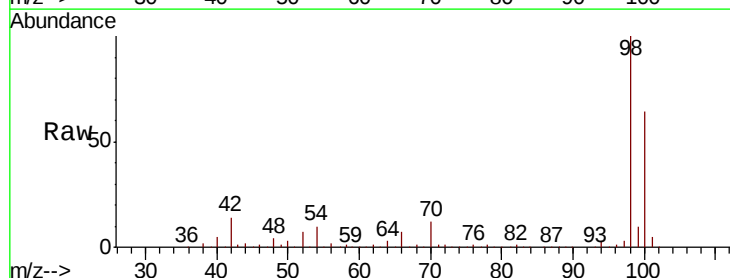
Acq: 6 May 2019 15:24

Tgt Ion: 98 Resp: 1109587

Ion Ratio Lower Upper

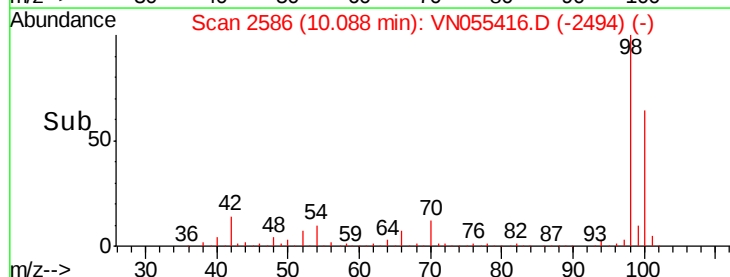
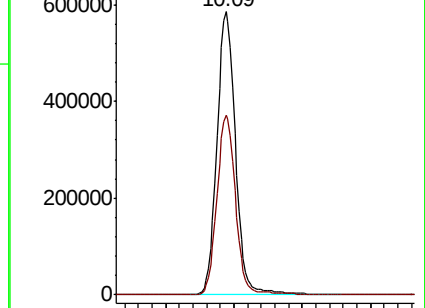
98 100

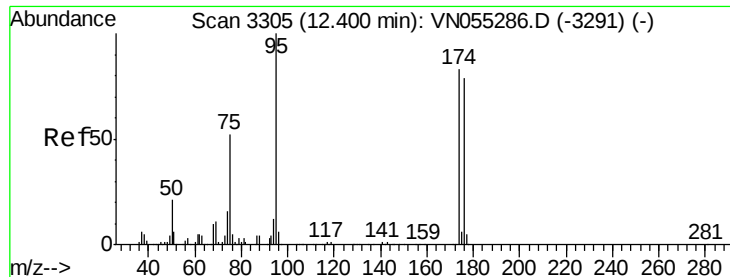
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN055416.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055416.D (-2494) (-)

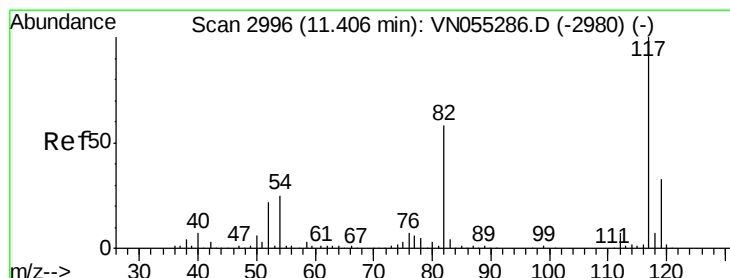
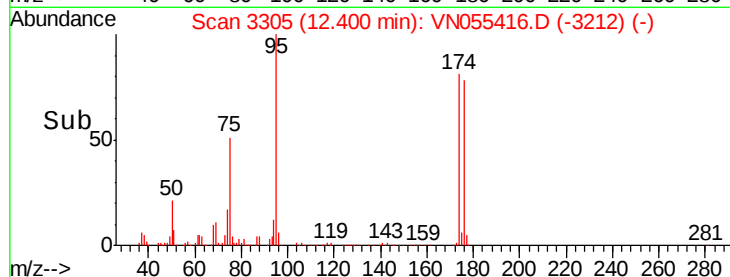
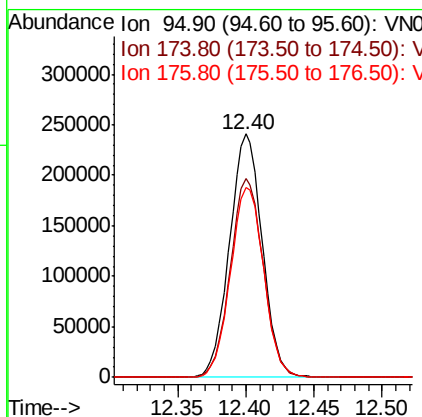
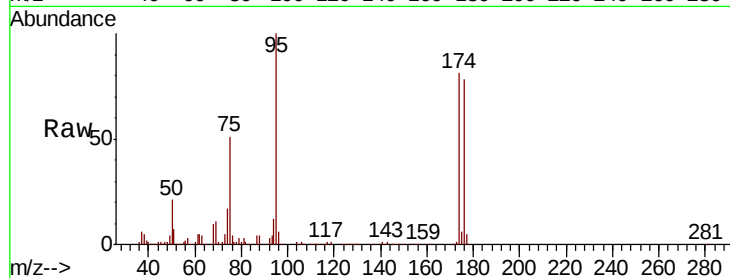




#62
4-Bromofluorobenzene
Concen: 59.166 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

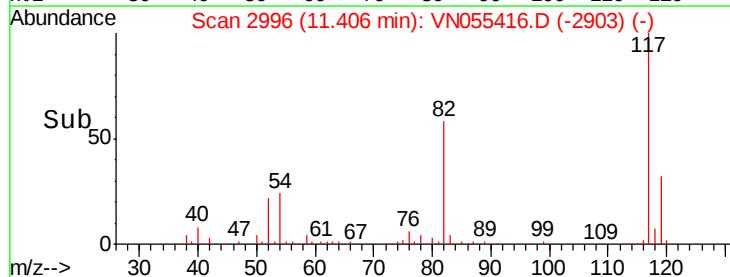
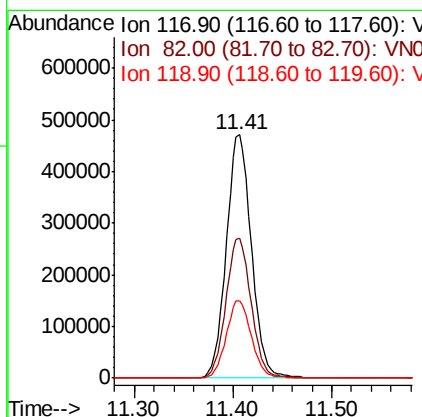
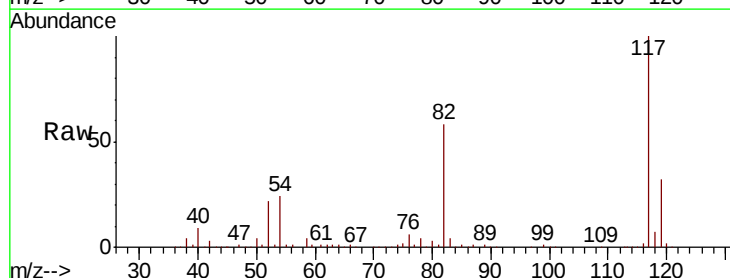
Instrument :
MSVOA_N
ClientSampleId :
SP-1-B

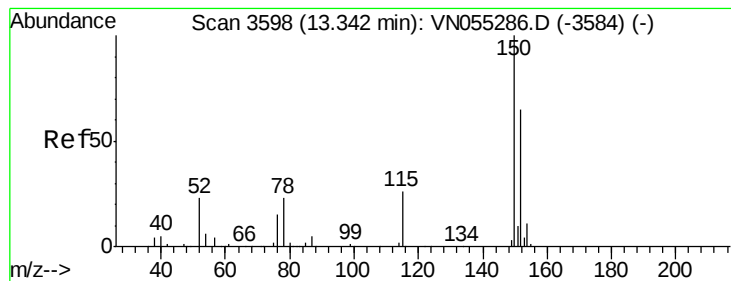
Tot Ion: 95 Resp: 399531
Ion Ratio Lower Upper
95 100
174 82.6 0.0 166.6
176 79.8 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

Tgt Ion: 117 Resp: 840536
Ion Ratio Lower Upper
117 100
82 57.7 46.2 69.4
119 32.0 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampled :

SP-1-B

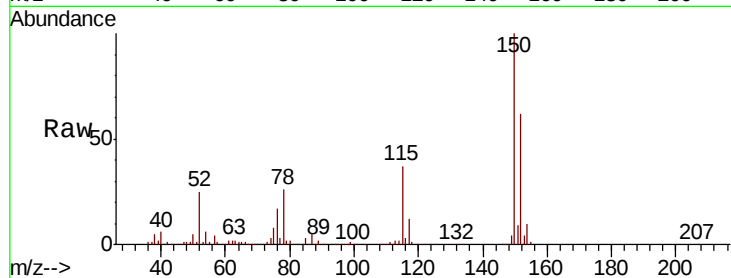
Tot Ion:152 Resp: 318892

Ion Ratio Lower Upper

152 100

115 58.4 29.0 87.0

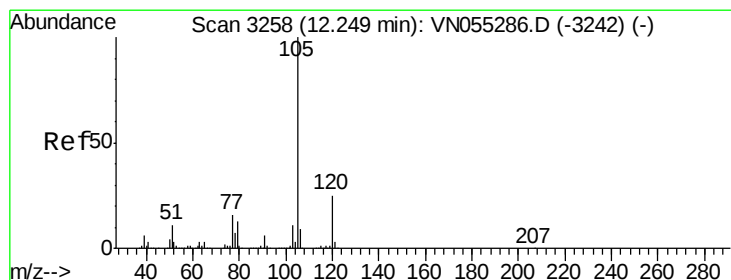
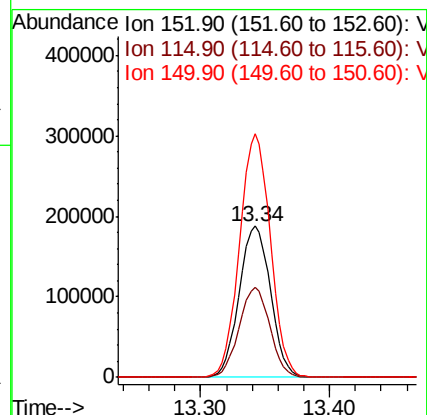
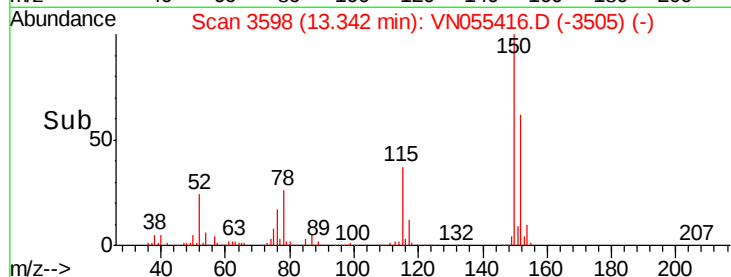
150 157.6 0.0 345.6



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# 3258

Delta R.T. 0.00 min

Lab File: VN055416.D

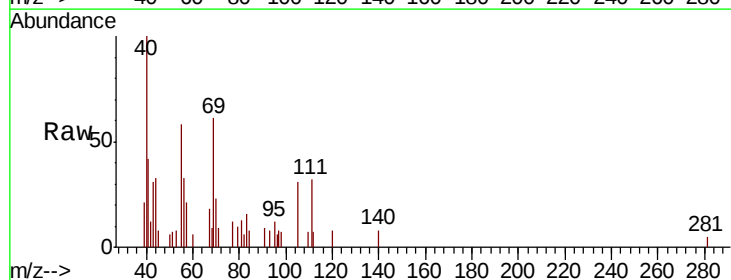
Acq: 6 May 2019 15:24

Tgt Ion:105 Resp: 1302

Ion Ratio Lower Upper

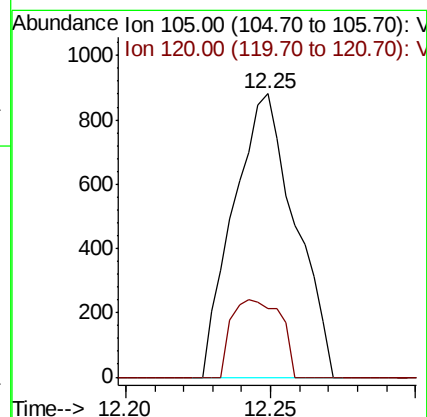
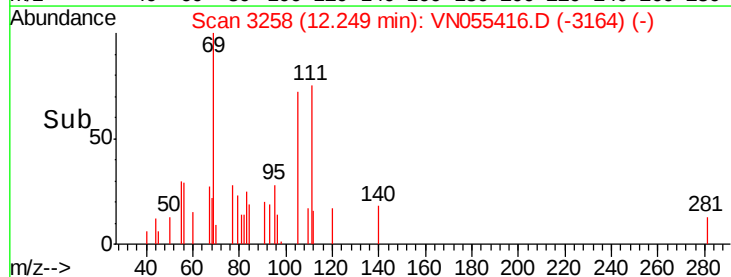
105 100

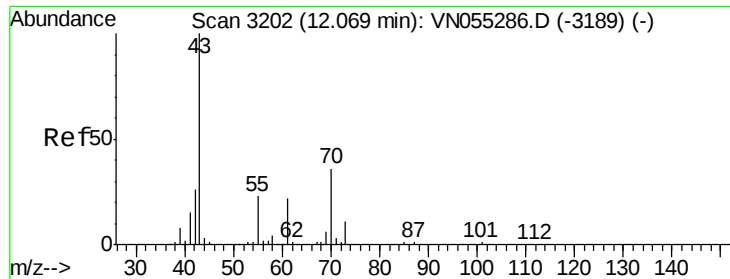
120 21.7 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.516 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampled :

SP-1-B

Tot Ion: 43 Resp: 12406

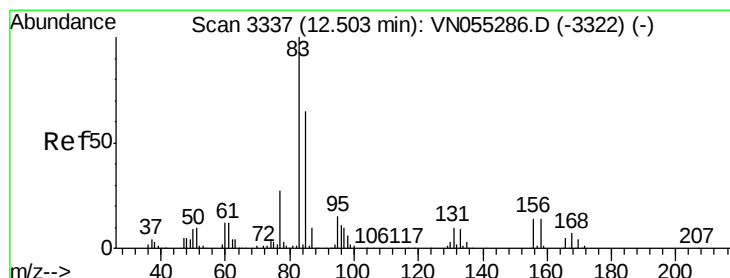
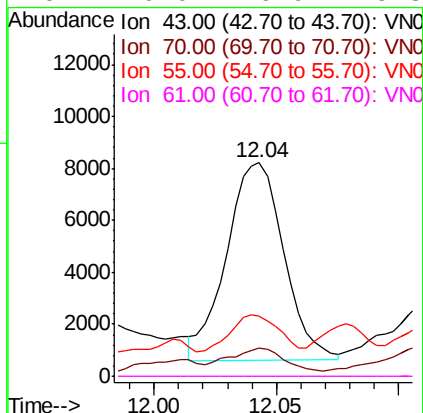
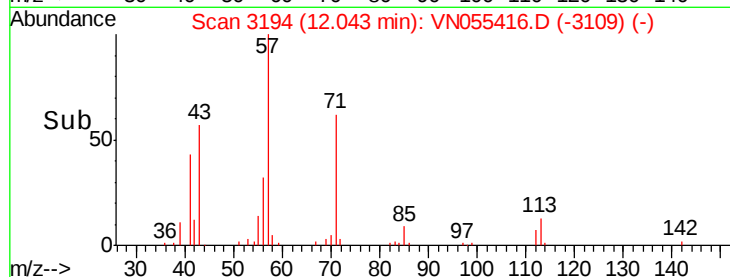
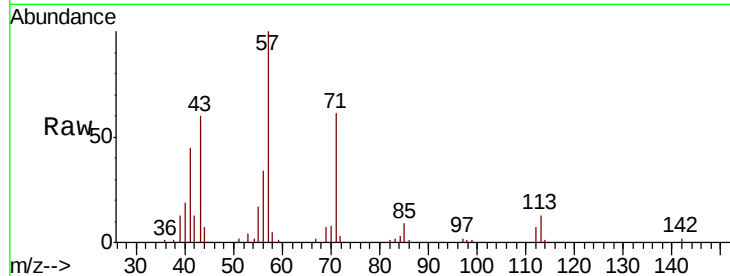
Ion Ratio Lower Upper

43 100

70 10.6 27.9 41.9#

55 19.2 18.2 27.2

61 0.0 16.9 25.3#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.48 min Scan# 3331

Delta R.T. -0.02 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

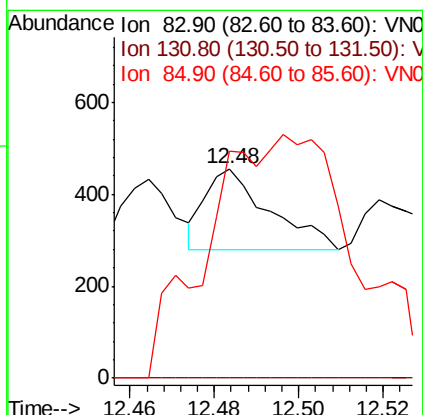
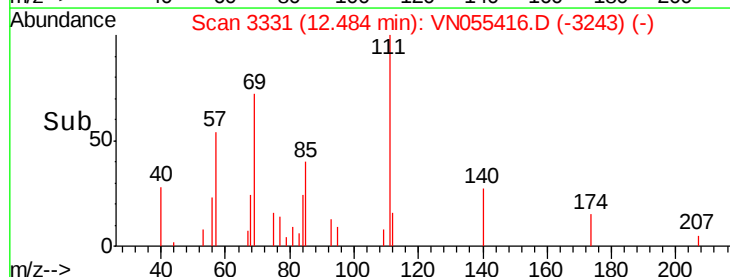
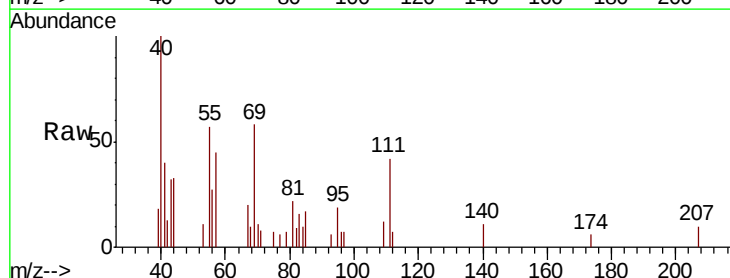
Tgt Ion: 83 Resp: 184

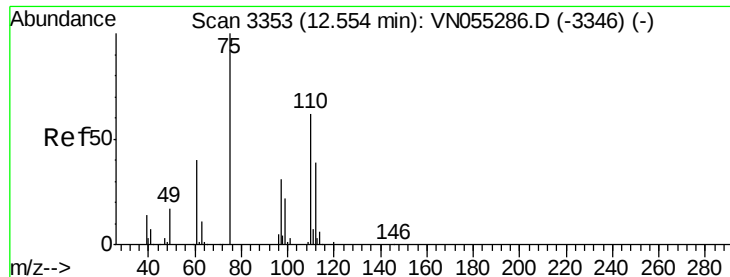
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.2#

85 272.8 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 34.150 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

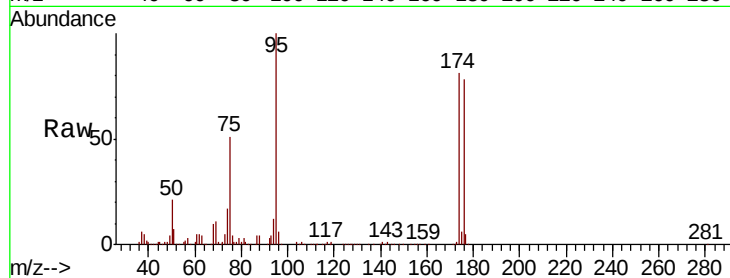
SP-1-B

Tot Ion: 75 Resp: 207150

Ion Ratio Lower Upper

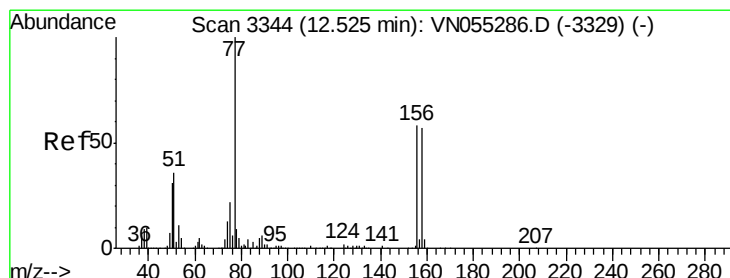
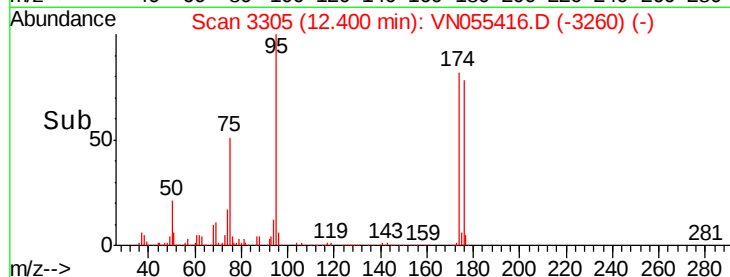
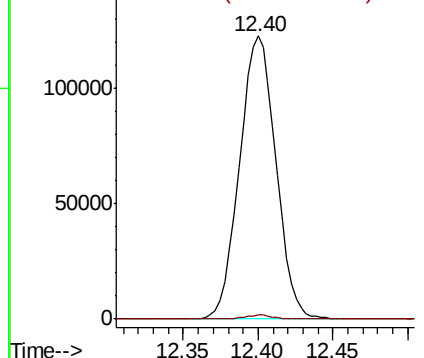
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.13 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

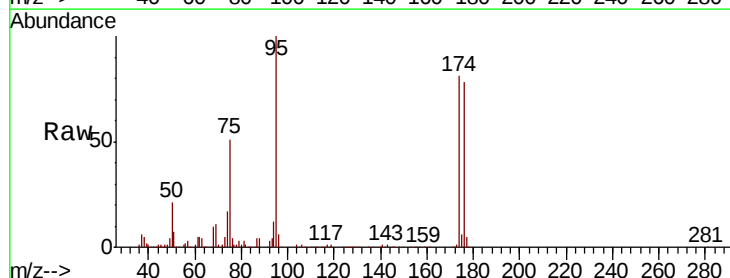
Tgt Ion: 156 Resp: 124

Ion Ratio Lower Upper

156 100

77 1960.5 99.6 298.8#

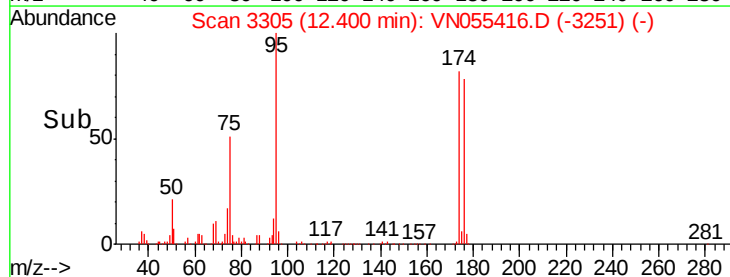
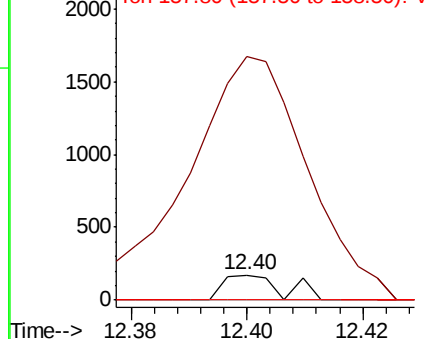
158 0.0 49.3 147.8#

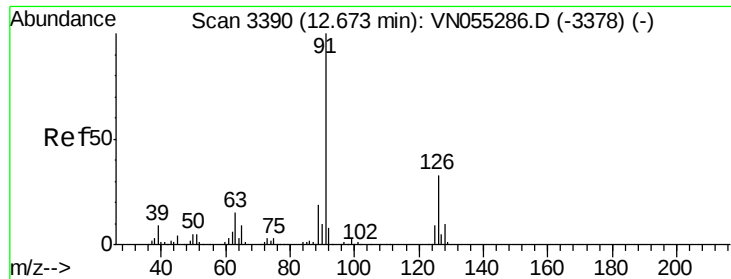


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.78 min Scan# 3423

Delta R.T. 0.11 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampled :

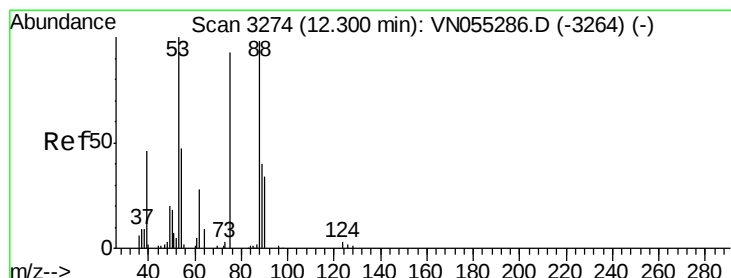
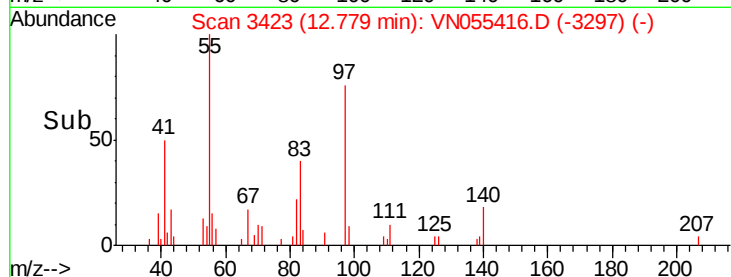
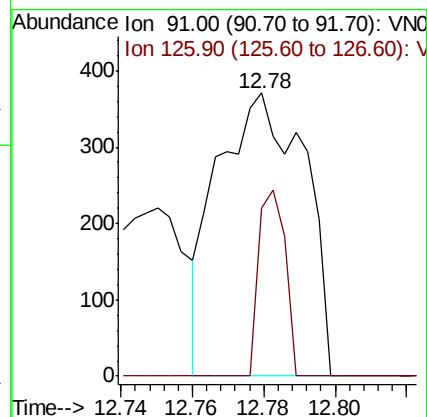
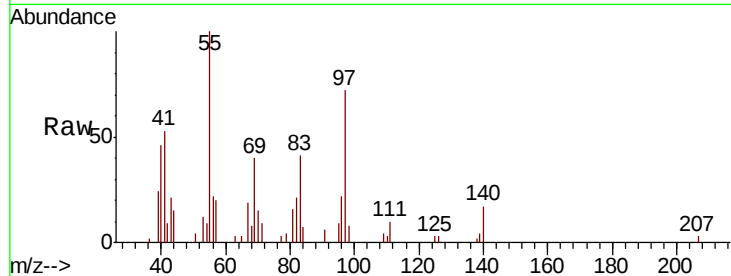
SP-1-B

Tot Ion: 91 Resp: 624

Ion Ratio Lower Upper

91 100

126 20.0 16.6 49.7



#81

trans-1,4-Dichloro-2-butene

Concen: 123.102 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

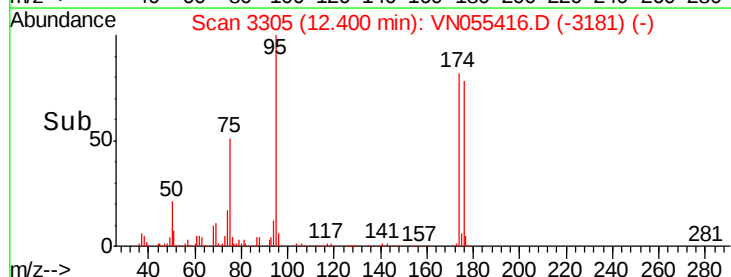
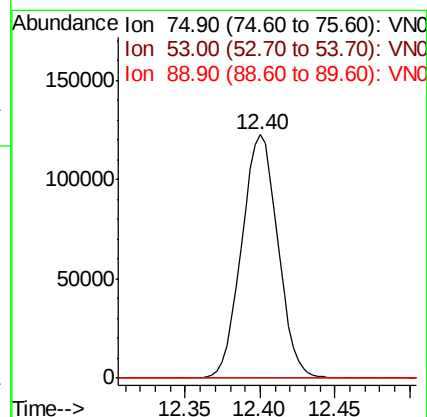
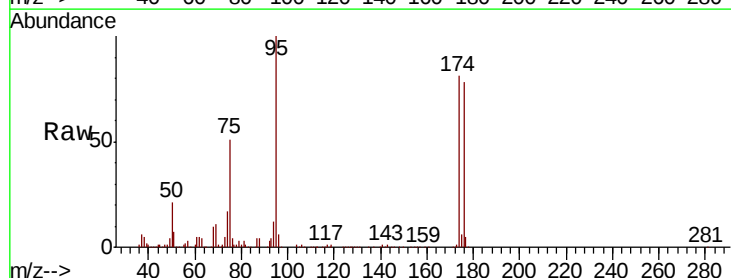
Tgt Ion: 75 Resp: 207150

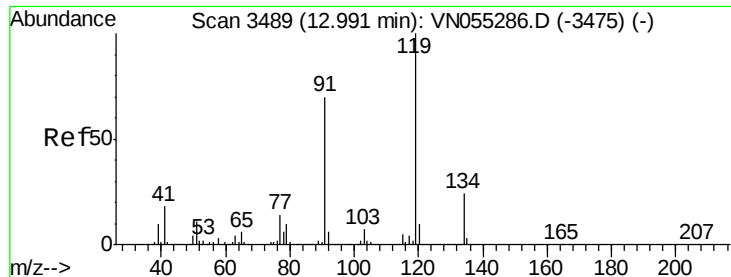
Ion Ratio Lower Upper

75 100

53 0.1 86.3 129.5#

89 0.0 34.6 51.8#

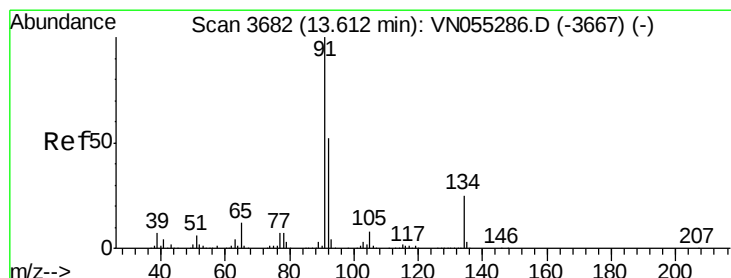
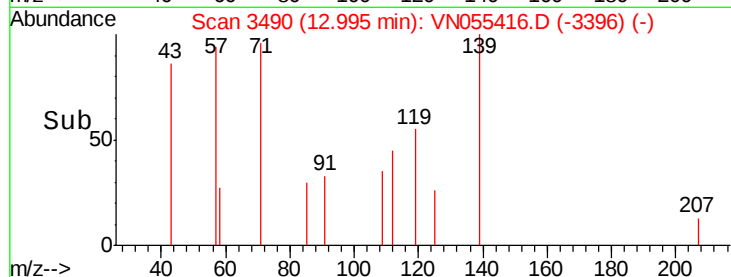
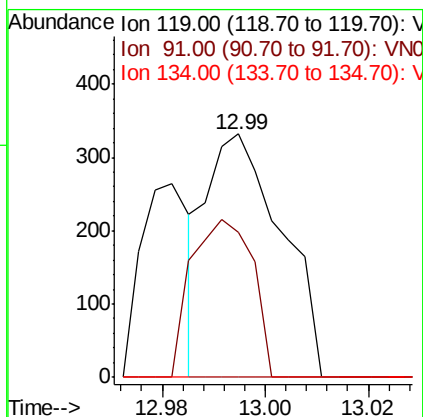
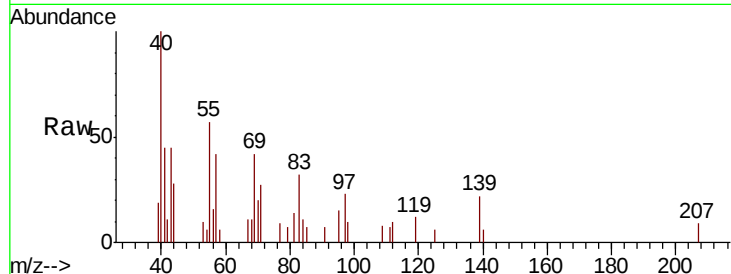




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

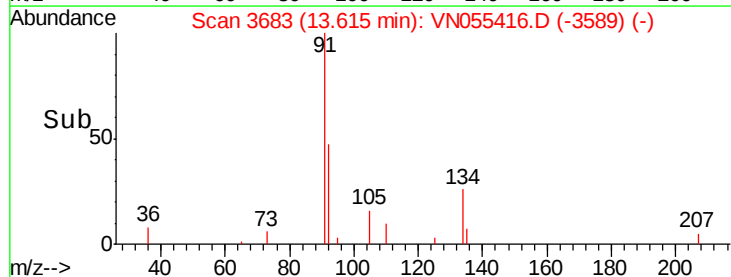
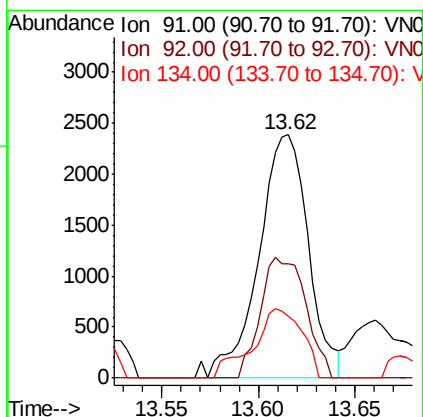
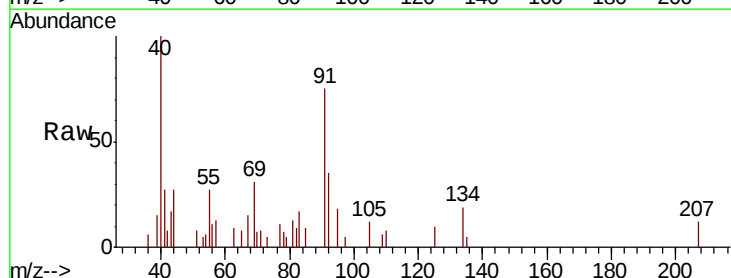
Instrument :
MSVOA_N
ClientSampled :
SP-1-B

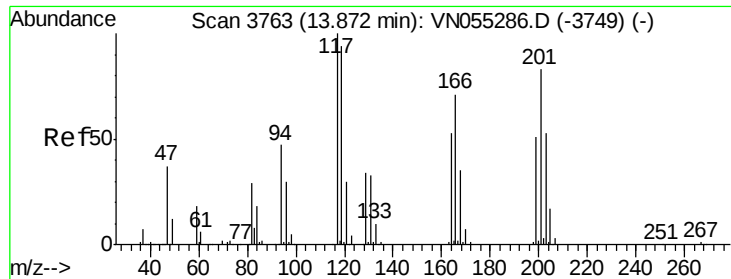
Tot Ion:119 Resp: 334
Ion Ratio Lower Upper
119 100
91 53.0 34.3 102.9
134 0.0 13.1 39.3#



#89
n-Butylbenzene
Concen: 0.269 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055416.D
Acq: 6 May 2019 15:24

Tgt Ion: 91 Resp: 4274
Ion Ratio Lower Upper
91 100
92 45.2 26.1 78.3
134 28.4 12.4 37.4





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

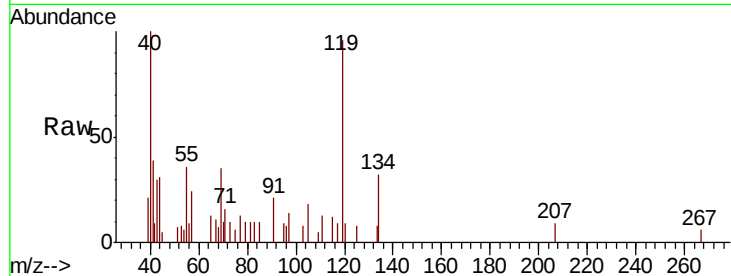
SP-1-B

Tot Ion:117 Resp: 440

Ion Ratio Lower Upper

117 100

201 0.0 41.9 125.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

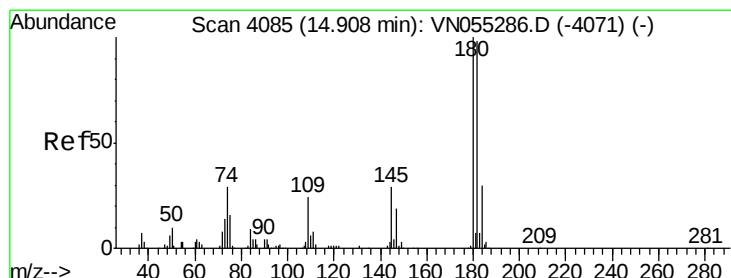
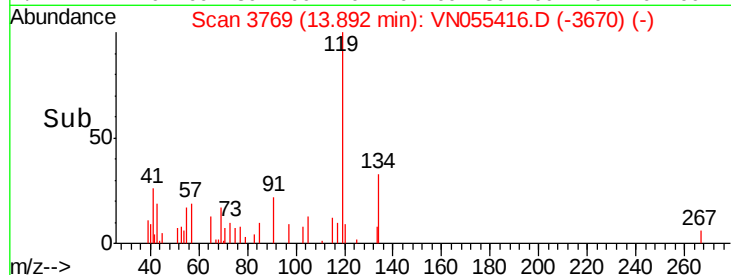
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.361 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

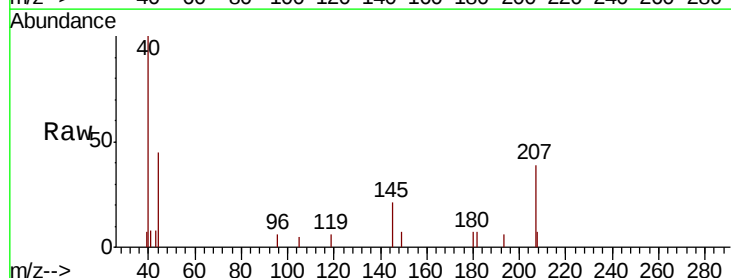
Tgt Ion:180 Resp: 223

Ion Ratio Lower Upper

180 100

182 73.5 48.3 144.9

145 112.1 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

800

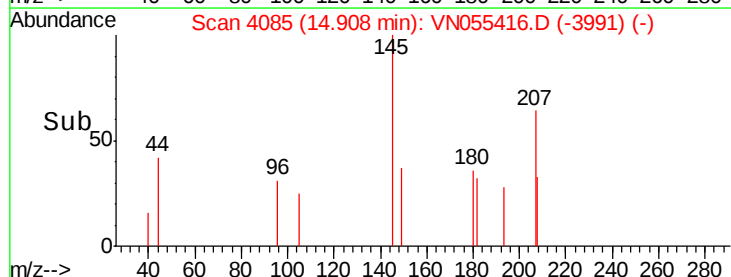
600

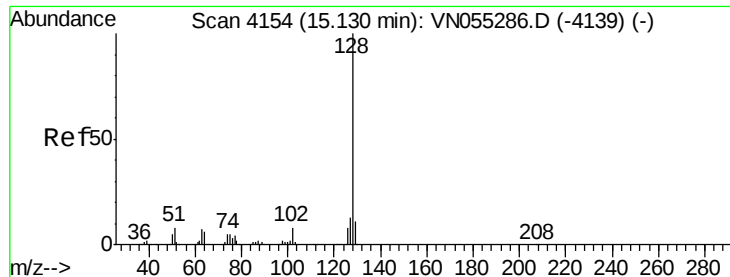
400

200

0

Time-->





#95

Naphthalene

Concen: 3.484 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

SP-1-B

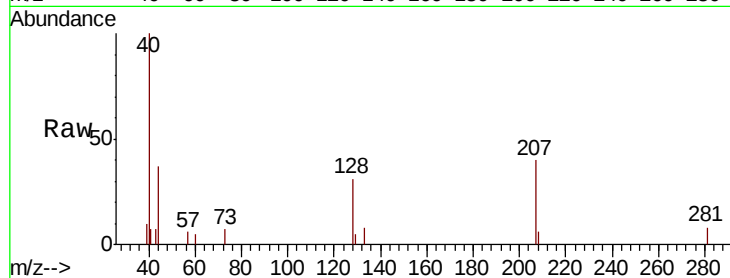
Tot Ion:128 Resp: 1480

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

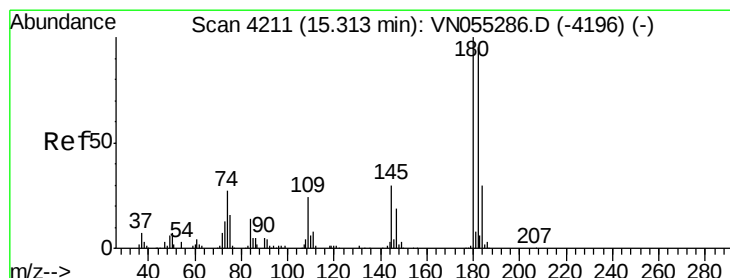
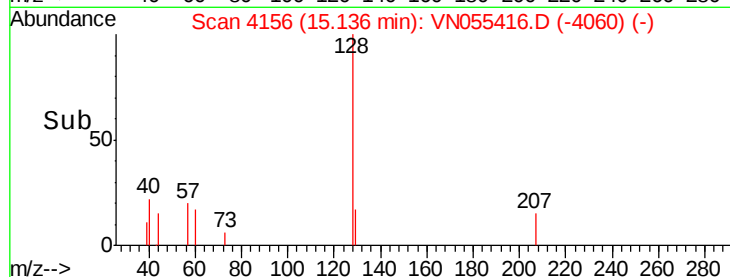
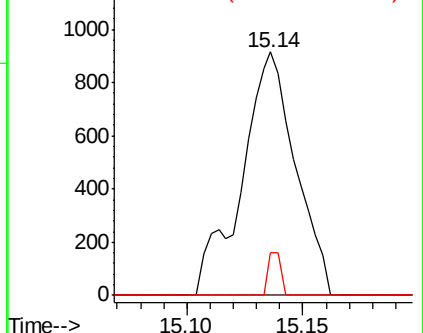
129 4.2 8.6 13.0#



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: 2.638 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN055416.D

Acq: 6 May 2019 15:24

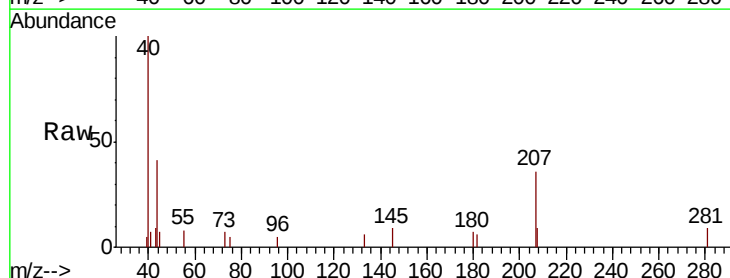
Tgt Ion:180 Resp: 111

Ion Ratio Lower Upper

180 100

182 61.3 48.3 144.9

145 262.2 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

