

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050119\
 Data File : VN055322.D
 Acq On : 1 May 2019 12:11
 Operator : JC/SP
 Sample : K2617-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ROCK-COMP

Quant Time: May 02 01:49:27 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	345695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	616823	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	574869	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	250979	55.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.00%	
35) Dibromofluoromethane	7.59	113	200906	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
50) Toluene-d8	10.09	98	762008	52.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.24%	
62) 4-Bromofluorobenzene	12.40	95	244385	53.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.98%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.78	59	159	0.614	ug/l #	73
14) Allyl chloride	4.55	41	44312	6.265	ug/l #	27
16) Acetone	3.82	43	11559	8.203	ug/l	95
17) Carbon Disulfide	4.05	76	1978	0.222	ug/l #	74
18) Methyl Acetate	4.32	43	1649	Below Cal	#	26
20) Methylene Chloride	4.55	84	928339	215.834	ug/l	100
25) 2-Butanone	6.85	43	4140	2.297	ug/l	93
29) Tetrahydrofuran	7.20	42	339	0.294	ug/l #	57
30) Chloroform	7.37	83	5343	0.753	ug/l	93
31) Cyclohexane	7.67	56	8148	1.145	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25847	4.375	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33884	5.945	ug/l #	15
41) Methacrylonitrile	7.13	41	183	0.813	ug/l #	42
43) Isopropyl Acetate	8.17	43	14511	1.994	ug/l #	74
45) 1,2-Dichloropropane	9.27	63	1759	0.350	ug/l #	45
48) Methyl methacrylate	9.18	41	8300	2.320	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	4052	0.989	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	48652	7.631	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	9228	1.418	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.71	63	67	12.450	ug/l #	52
59) 2-Hexanone	10.76	43	158029	61.646	ug/l #	55
68) m/p-Xylenes	11.62	106	4036	0.557	ug/l	85
69) o-Xylene	11.94	106	1971	0.274	ug/l	82
73) Isopropylbenzene	12.25	105	639	Below Cal		85
75) 1,1,2,2-Tetrachloroethane	12.41	83	122	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	126372	37.893	ug/l #	100
79) 2-Chlorotoluene	12.68	91	955	Below Cal	#	42
80) 1,3,5-Trimethylbenzene	12.73	105	7074	0.511	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	126372	135.625	ug/l #	7
83) tert-Butylbenzene	13.00	119	168	Below Cal	#	25
84) 1,2,4-Trimethylbenzene	13.04	105	20749	1.676	ug/l	95
90) Hexachloroethane	13.89	117	219	Below Cal	#	7
93) 1,2,4-Trichlorobenzene	14.91	180	257	3.415	ug/l #	78
94) Hexachlorobutadiene	15.01	225	205	Below Cal	#	51

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QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration

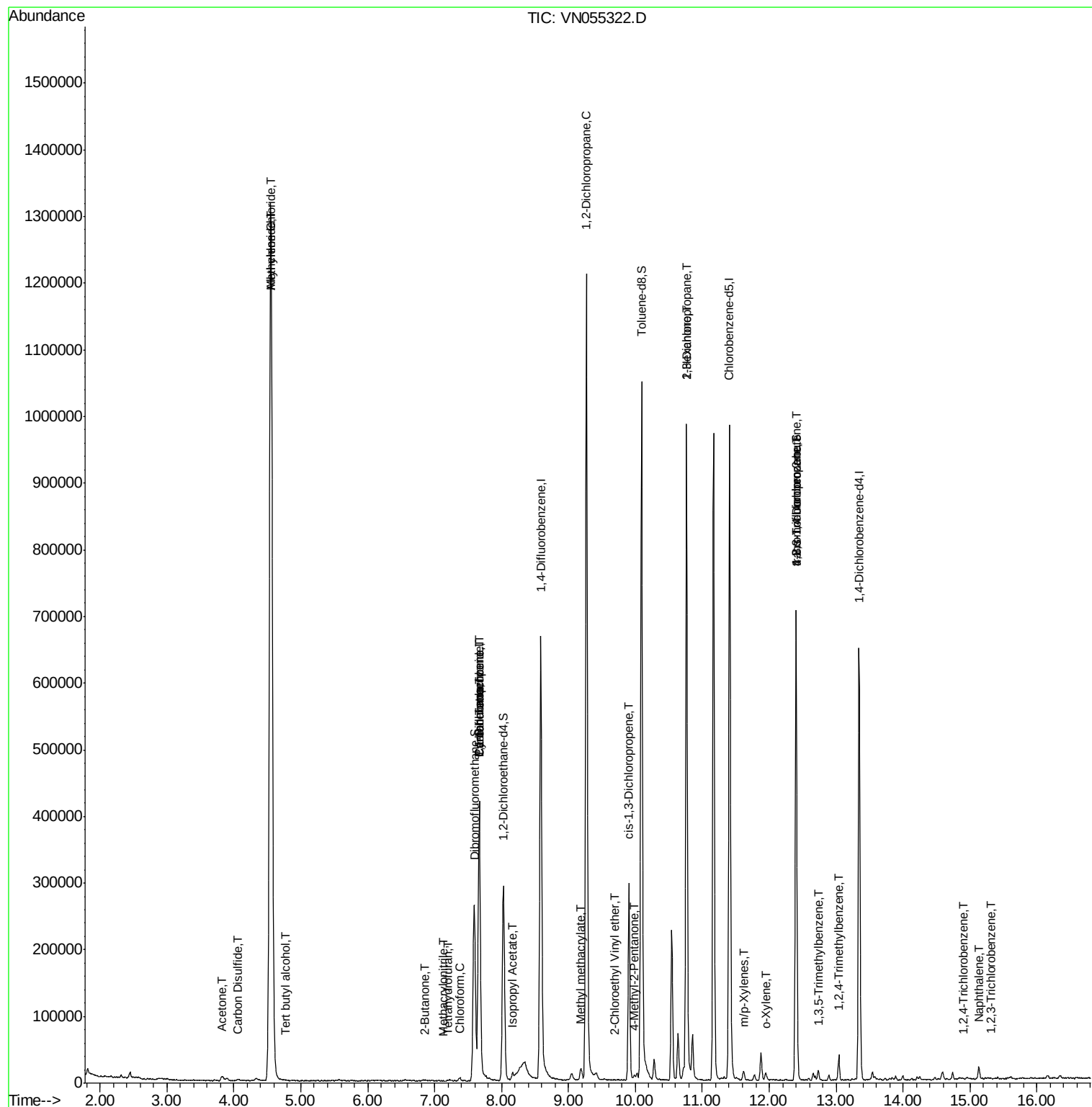
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	15.13	128	15816	6.336	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	321	2.746	ug/l #	24

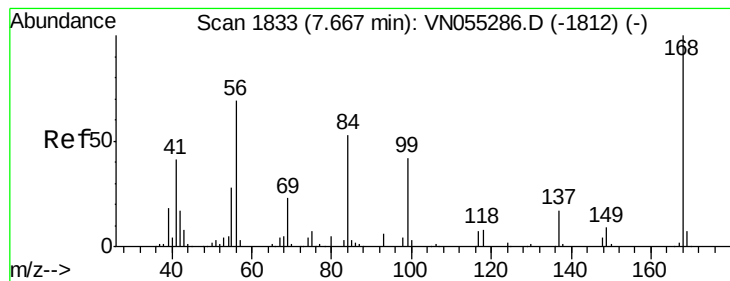
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

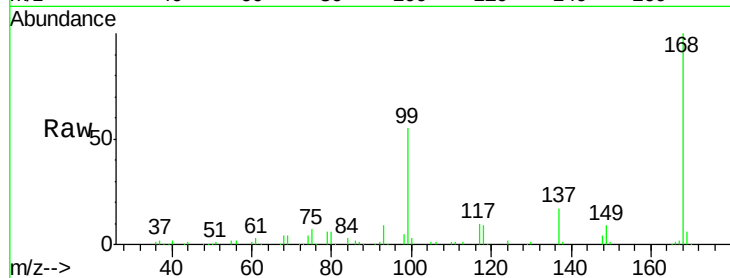
ROCK-COMP

Tot Ion:168 Resp: 345695

Ion Ratio Lower Upper

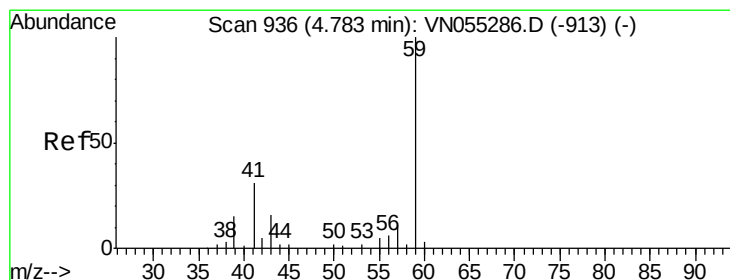
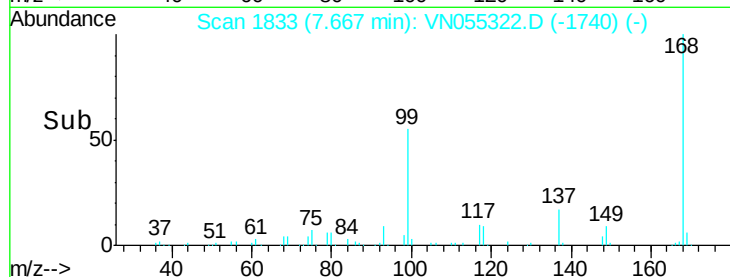
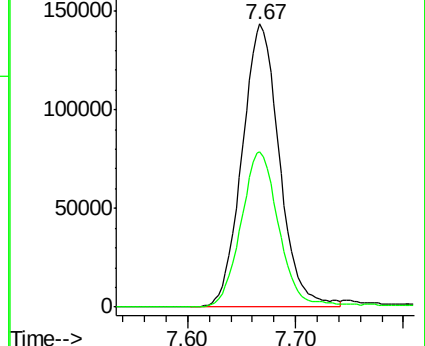
168 100

99 55.1 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.614 ug/l

RT: 4.78 min Scan# 935

Delta R.T. -0.00 min

Lab File: VN055322.D

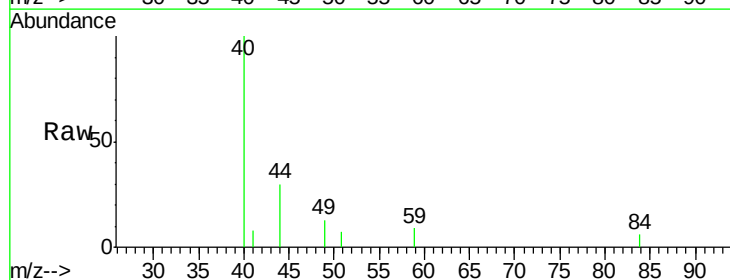
Acq: 1 May 2019 12:11

Tgt Ion: 59 Resp: 159

Ion Ratio Lower Upper

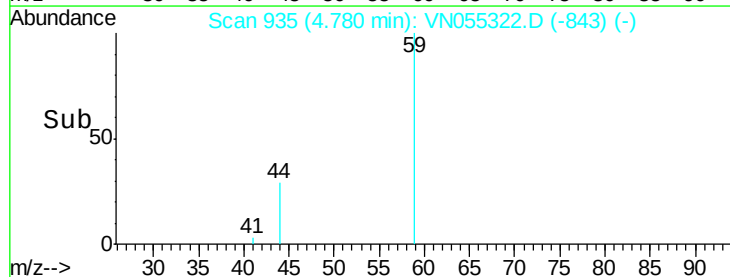
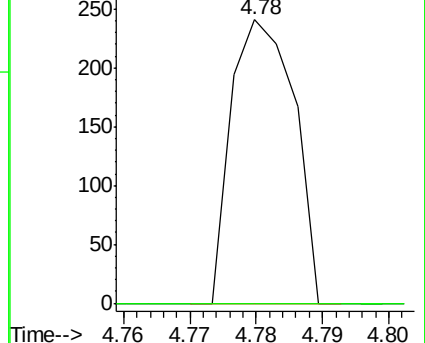
59 100

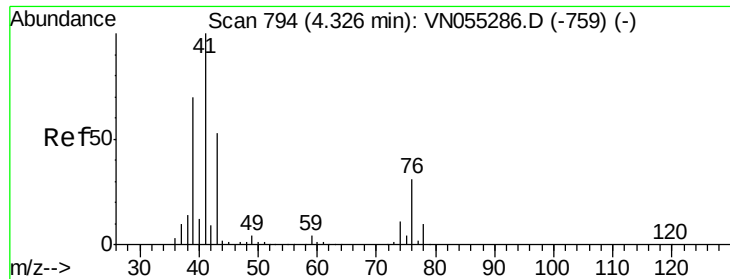
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

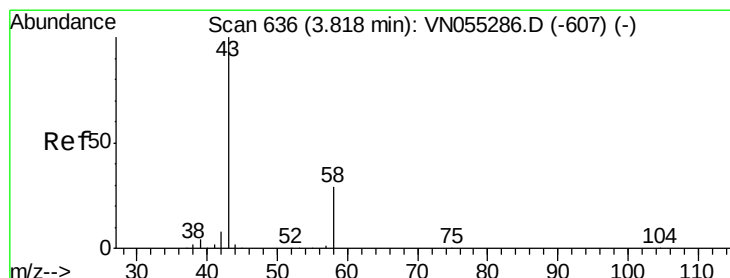
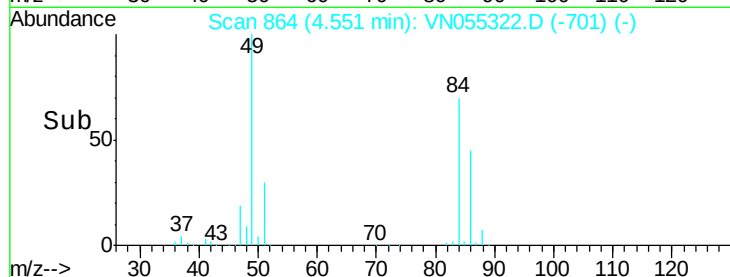
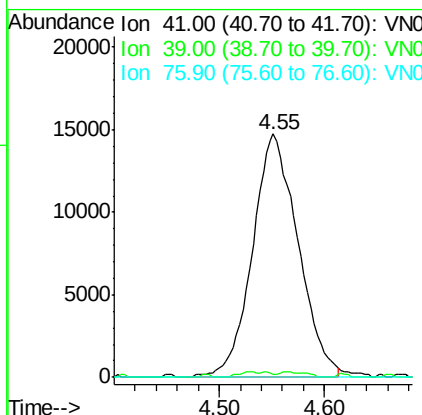
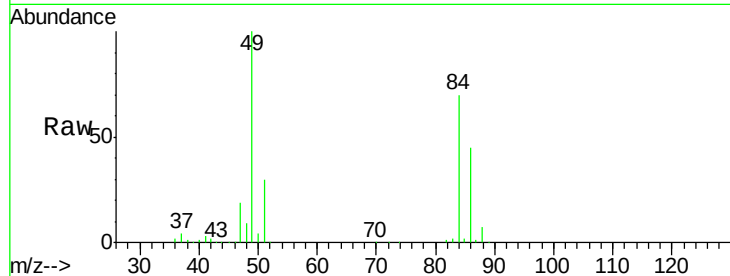




#14
Allvl chloride
Concen: 6.265 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

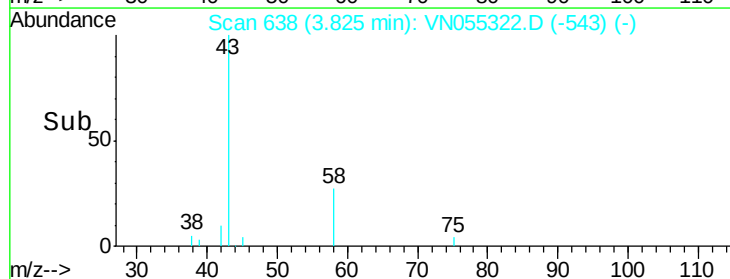
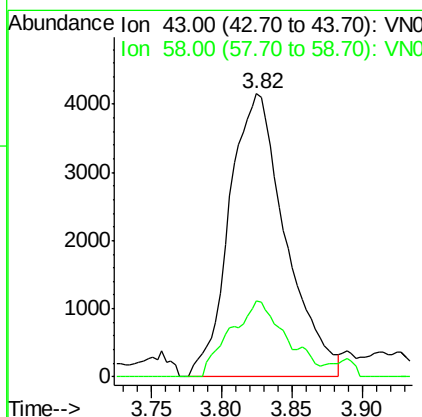
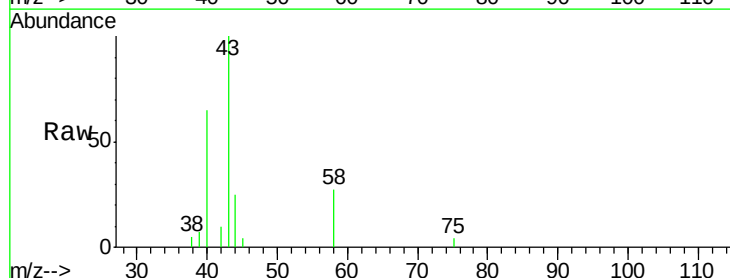
Instrument :
MSVOA_N
ClientSampleId :
ROCK-COMP

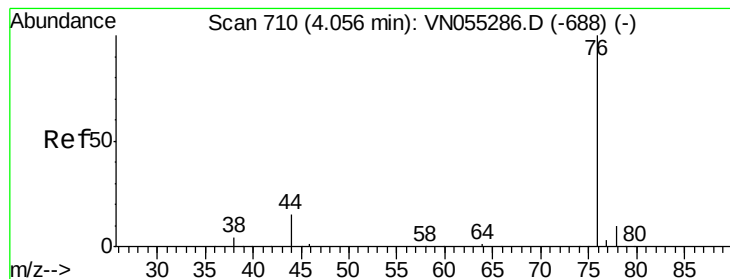
Tot Ion: 41 Resp: 44312
Ion Ratio Lower Upper
41 100
39 1.4 53.0 79.6#
76 0.0 22.7 34.1#



#16
Acetone
Concen: 8.203 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion: 43 Resp: 11559
Ion Ratio Lower Upper
43 100
58 27.1 23.6 35.4





#17

Carbon Disulfide

Concen: 0.222 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

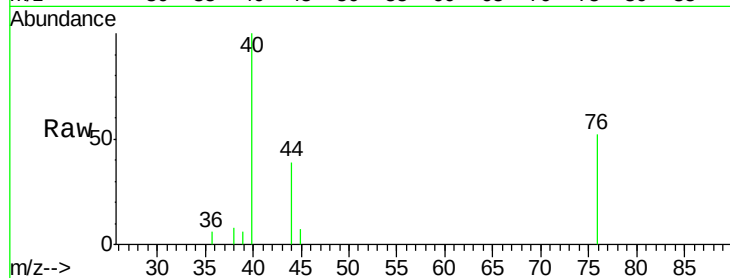
ROCK-COMP

Tot Ion: 76 Resp: 1978

Ion Ratio Lower Upper

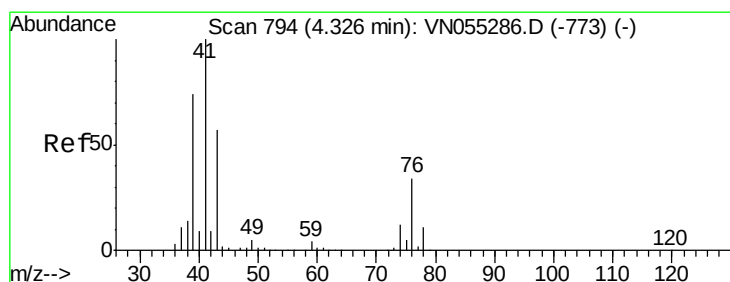
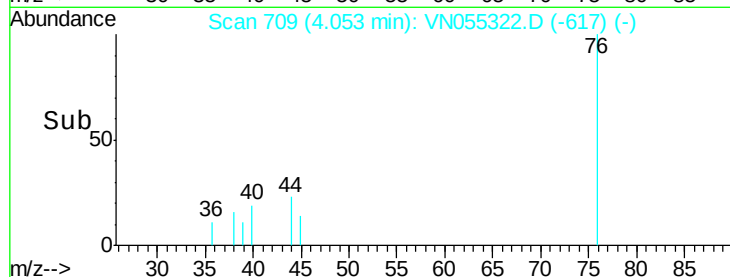
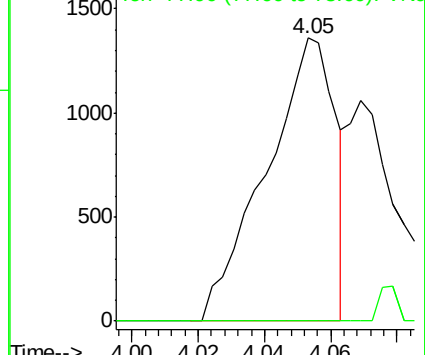
76 100

78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN055322.D

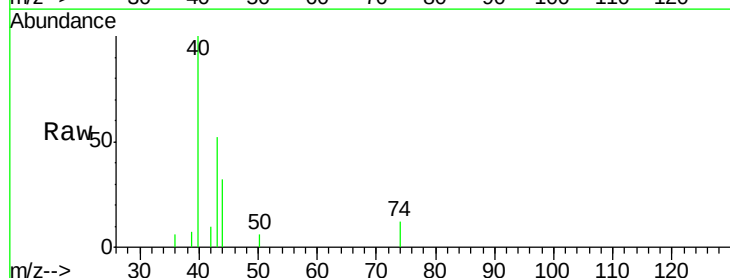
Acq: 1 May 2019 12:11

Tgt Ion: 43 Resp: 1649

Ion Ratio Lower Upper

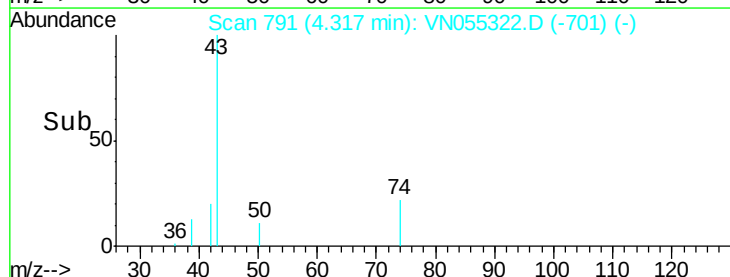
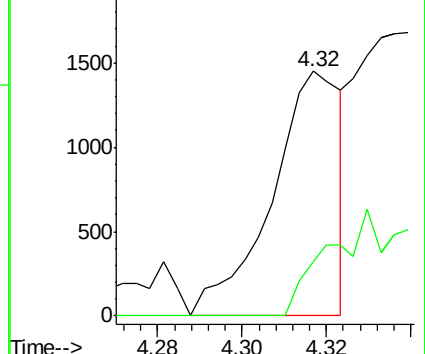
43 100

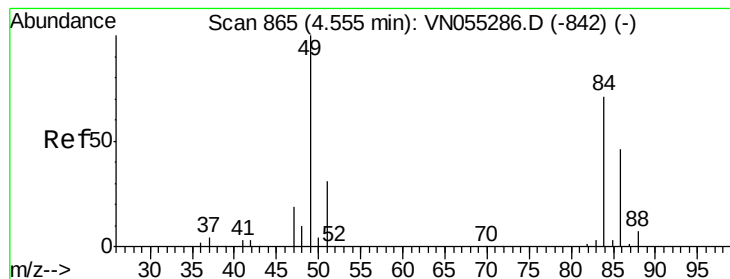
74 53.6 15.8 23.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 215.834 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

ROCK-COMP

Tot Ion: 84 Resp: 928339

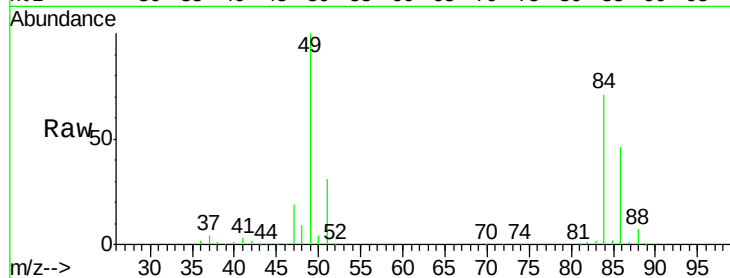
Ion Ratio Lower Upper

84 100

49 140.9 112.4 168.6

51 43.3 34.6 51.8

86 64.2 51.9 77.9

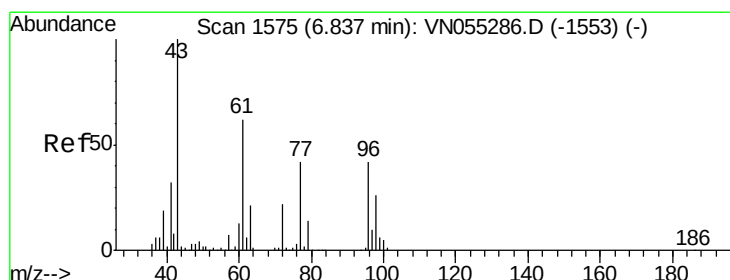
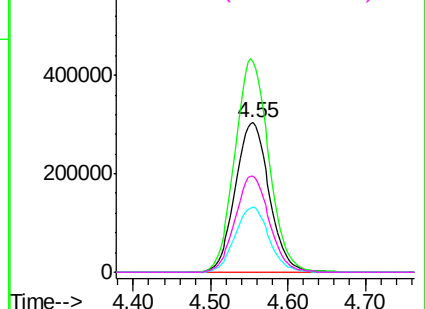
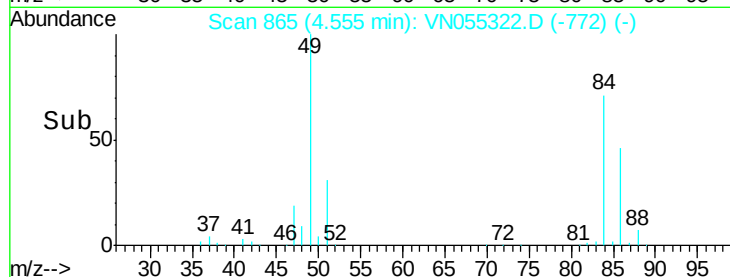


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.297 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN055322.D

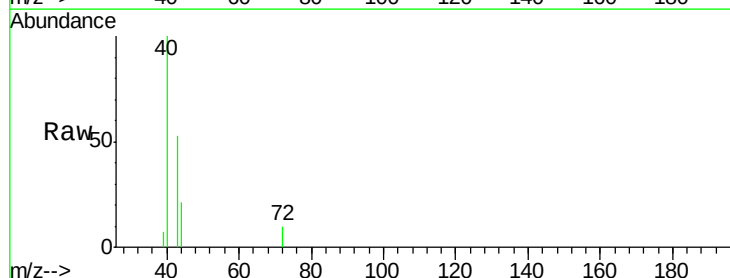
Acq: 1 May 2019 12:11

Tgt Ion: 43 Resp: 4140

Ion Ratio Lower Upper

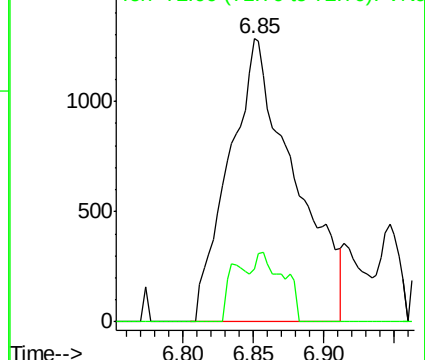
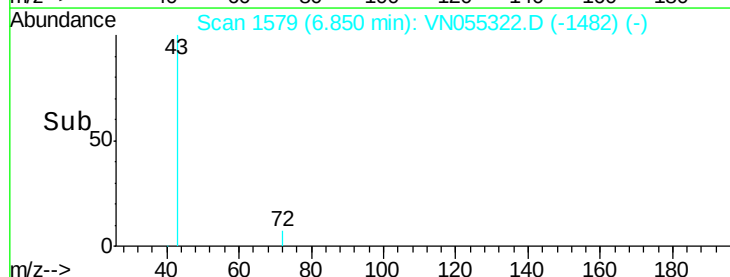
43 100

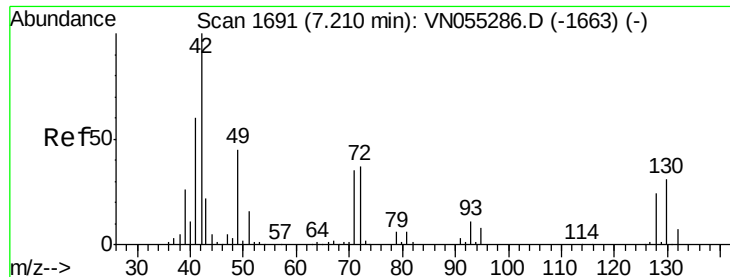
72 18.9 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

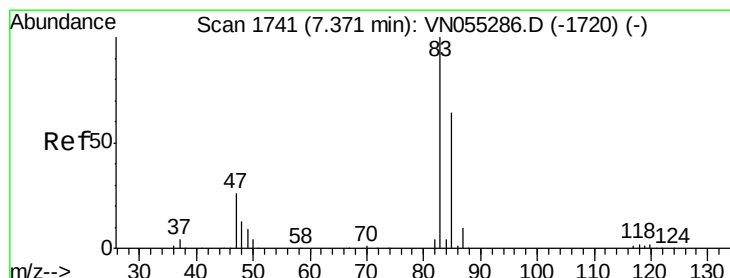
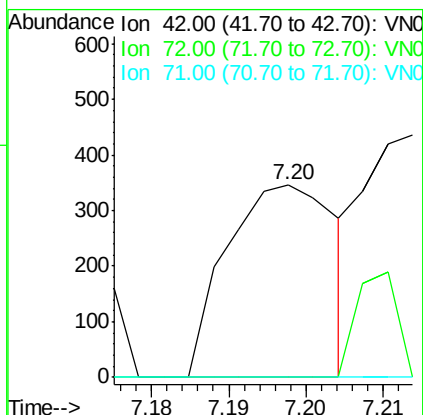
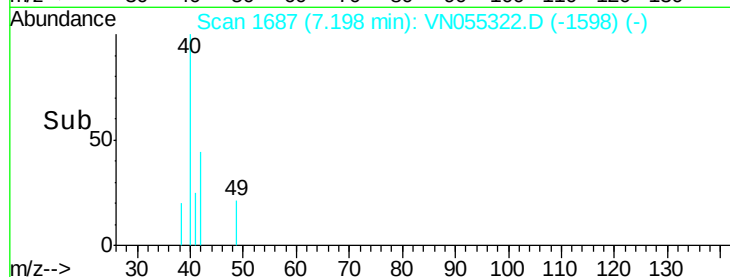
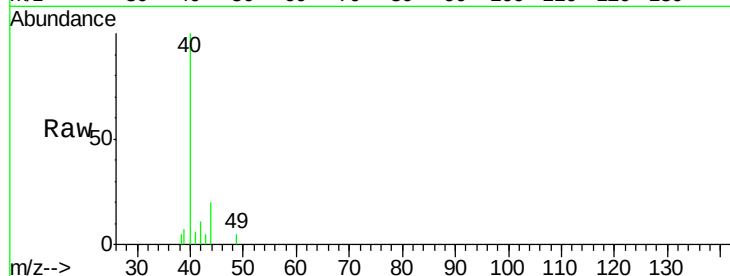




#29
Tetrahydrofuran
Concen: 0.294 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

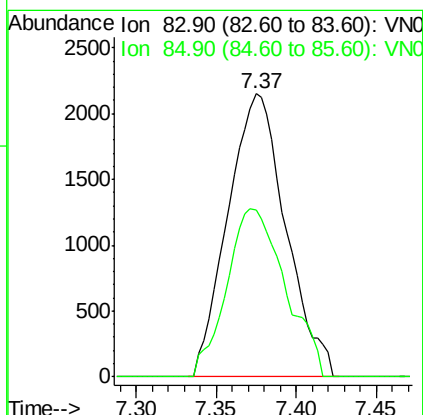
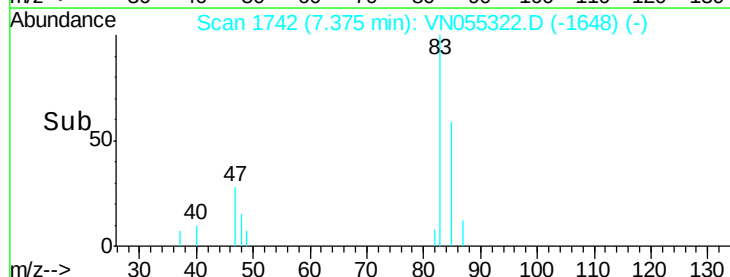
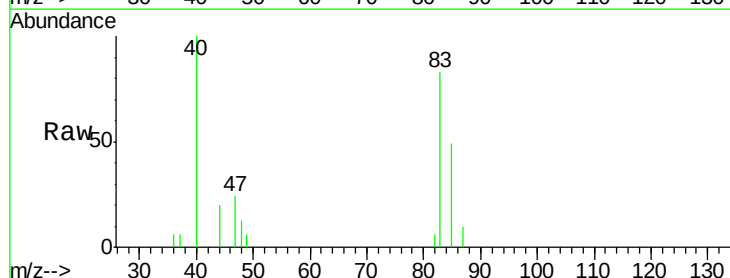
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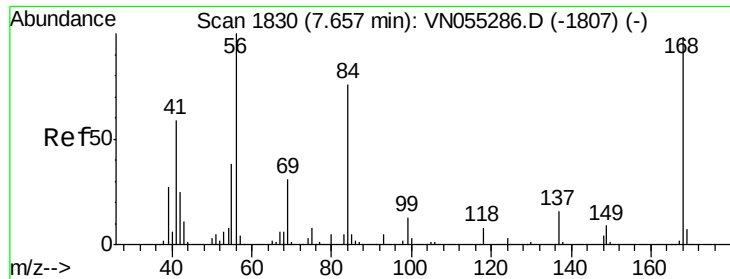
Tot Ion: 42 Resp: 339
Ion Ratio Lower Upper
42 100
72 20.4 29.0 43.6#
71 0.0 27.1 40.7#



#30
Chloroform
Concen: 0.753 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion: 83 Resp: 5343
Ion Ratio Lower Upper
83 100
85 58.7 51.4 77.2

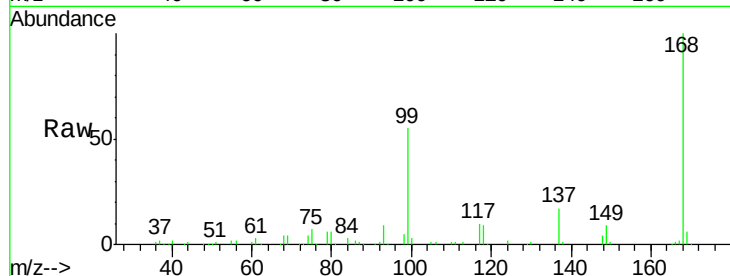




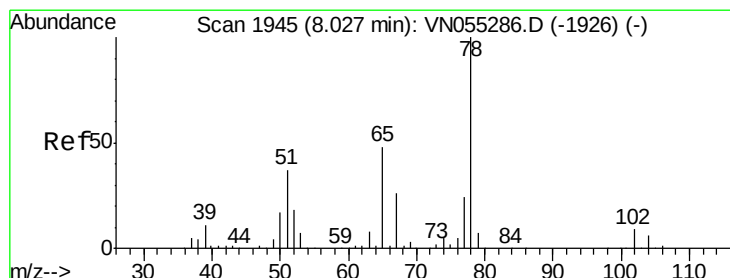
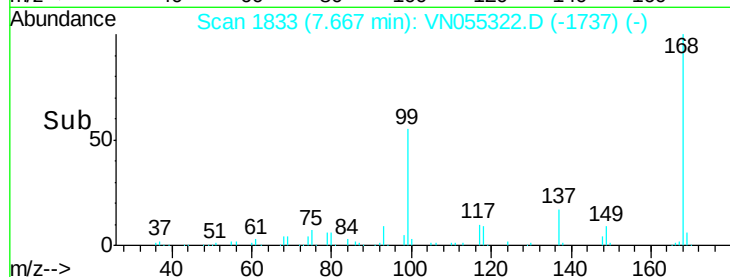
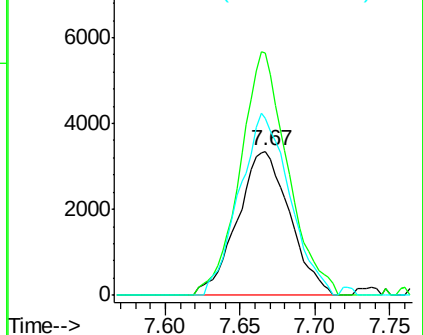
#31
Cyclohexane
Concen: 1.145 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Instrument :
MSVOA_N
ClientSampleId :
ROCK-COMP

Tot Ion: 56 Resp: 8148
Ion Ratio Lower Upper
56 100
69 167.9 25.2 37.8#
84 122.7 61.1 91.7#

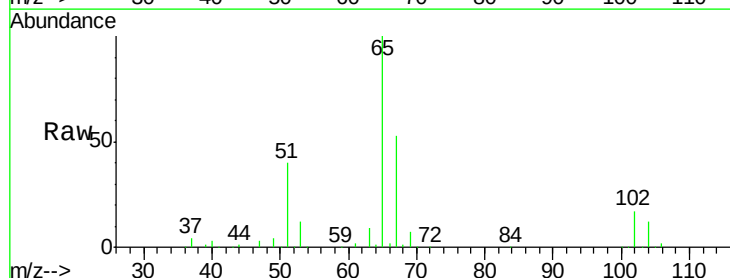


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

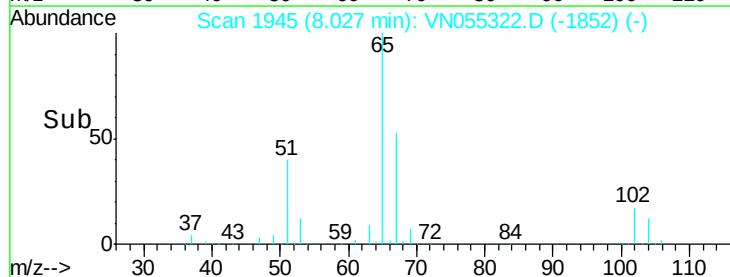
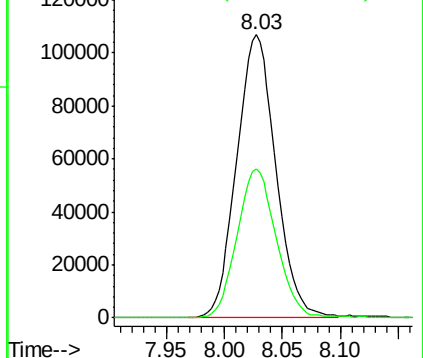


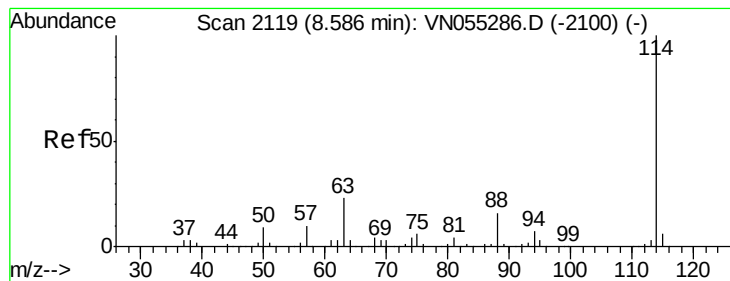
#33
1,2-Dichloroethane-d4
Concen: 55.496 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion: 65 Resp: 250979
Ion Ratio Lower Upper
65 100
67 52.6 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: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

ROCK-COMP

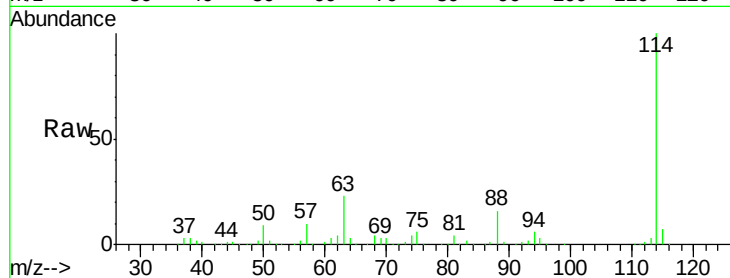
Tot Ion:114 Resp: 616823

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.2

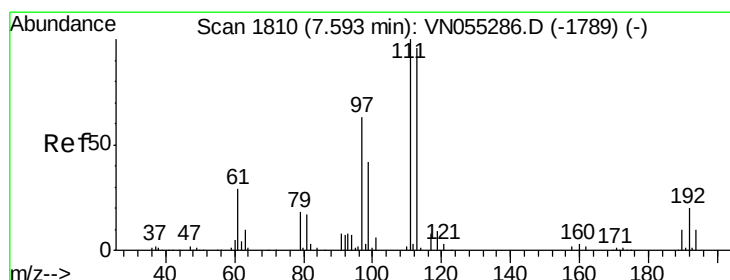
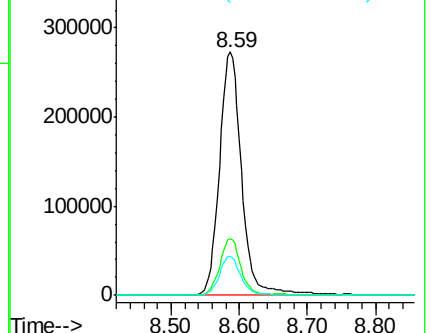
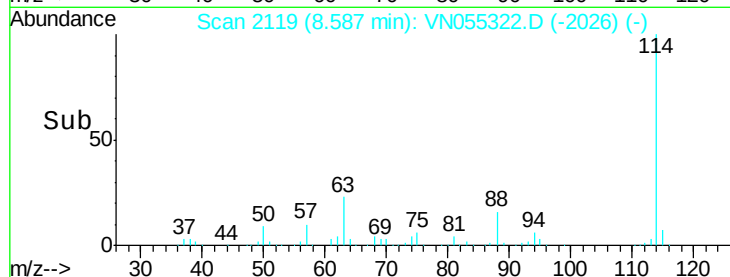
88 16.0 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.623 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

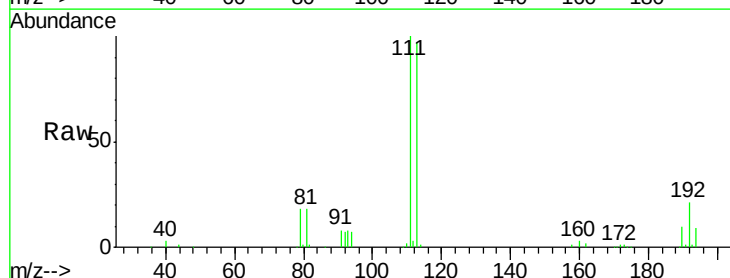
Tgt Ion:113 Resp: 200906

Ion Ratio Lower Upper

113 100

111 102.4 82.3 123.5

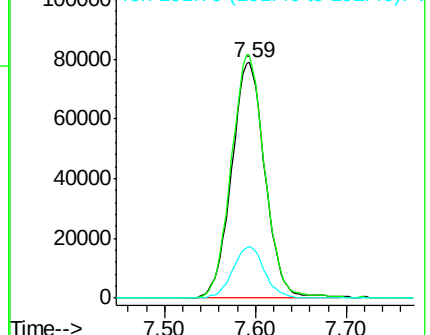
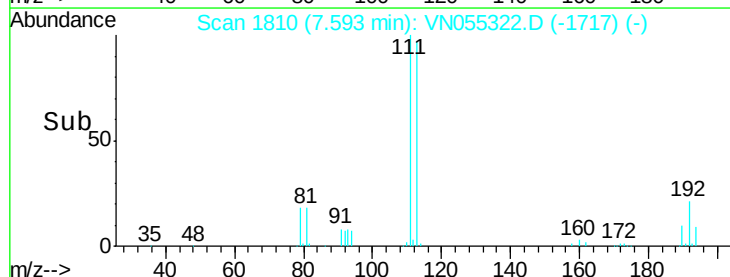
192 20.9 17.0 25.6

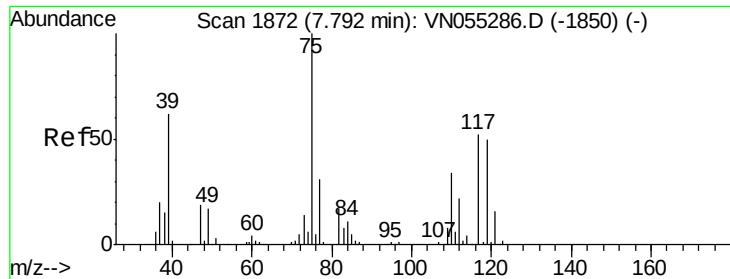


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.375 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampled :

ROCK-COMP

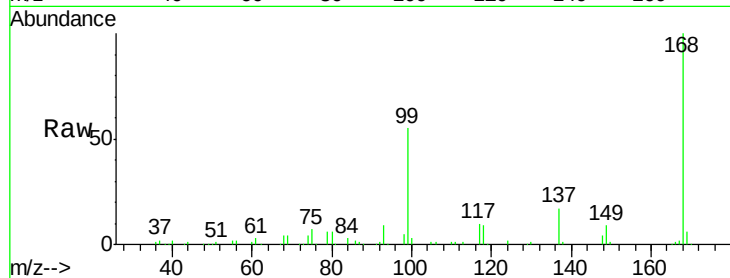
Tot Ion: 75 Resp: 25847

Ion Ratio Lower Upper

75 100

110 7.8 16.8 50.4#

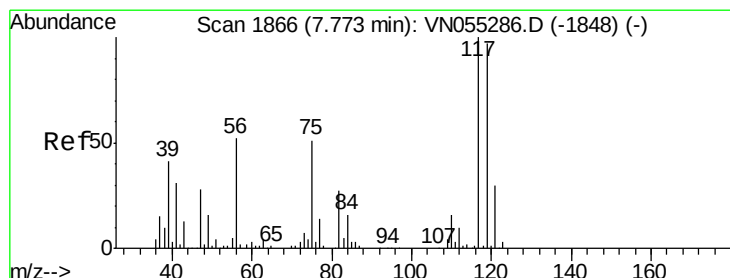
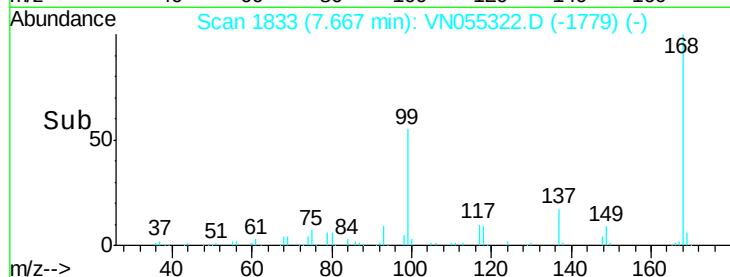
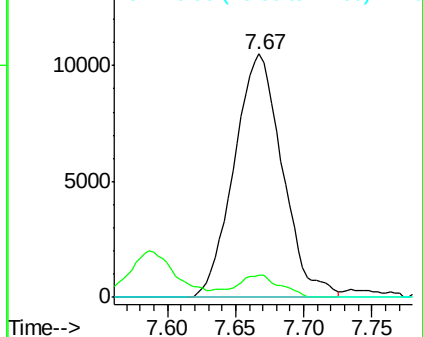
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055322.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN055322.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN055322.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 5.945 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

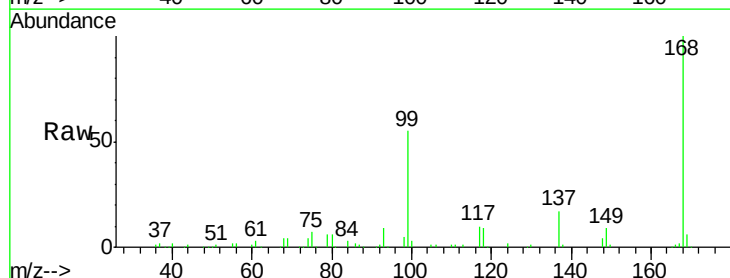
Tgt Ion: 117 Resp: 33884

Ion Ratio Lower Upper

117 100

119 4.1 77.0 115.6#

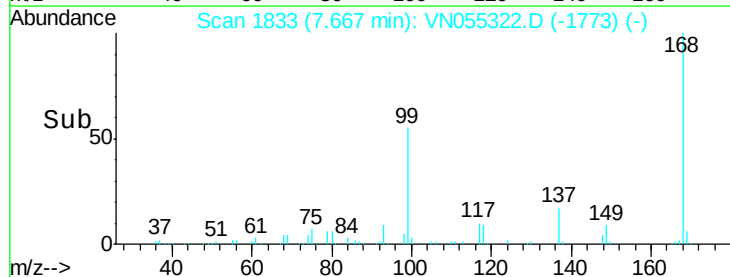
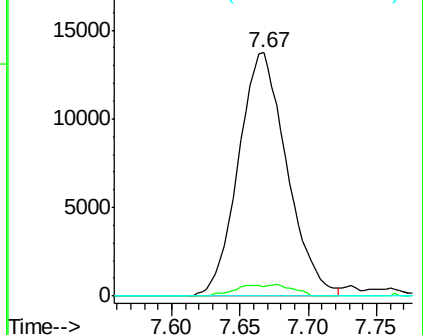
121 0.0 23.8 35.8#

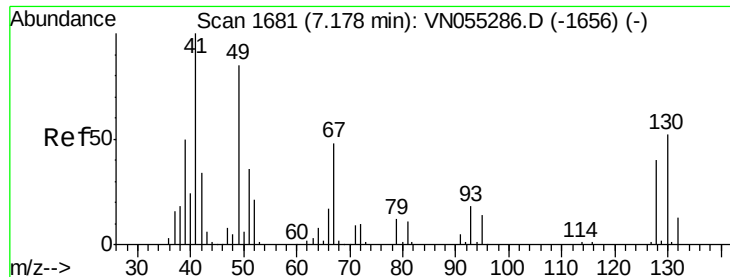


Abundance Ion 116.80 (116.50 to 117.50): VN055322.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN055322.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN055322.D (-1773) (-)

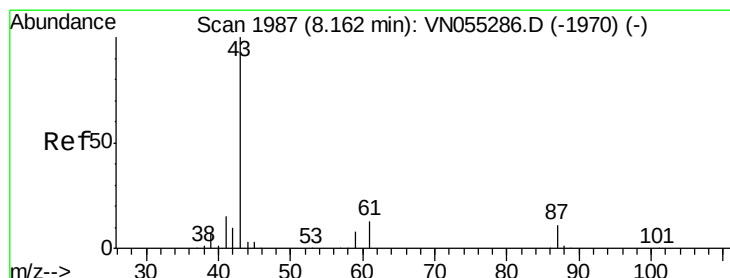
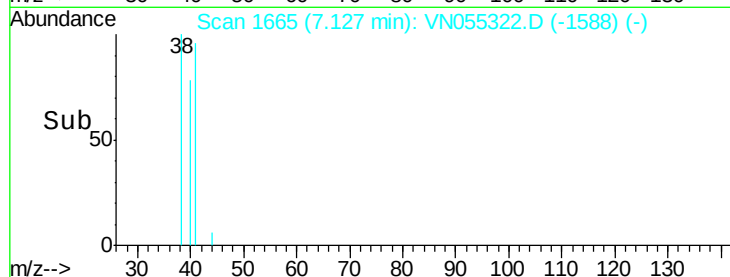
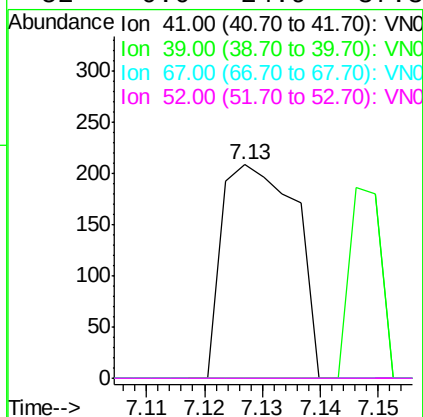
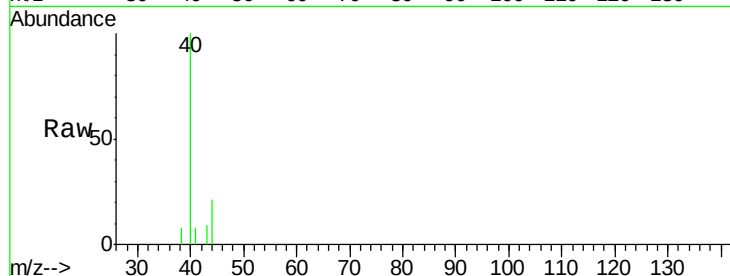




#41
Methacrylonitrile
Concen: 0.813 ug/l
RT: 7.13 min Scan# 1665
Delta R.T. -0.05 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

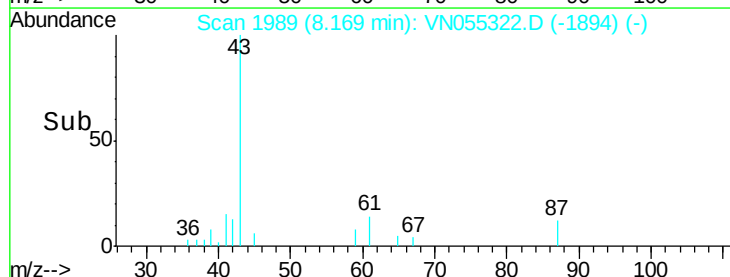
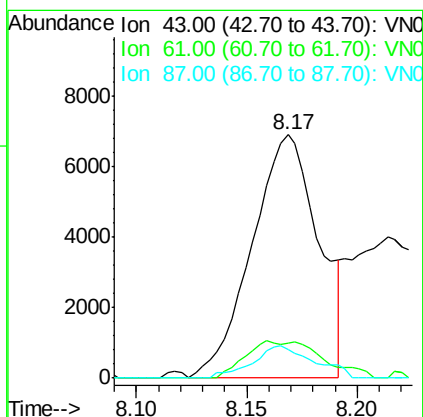
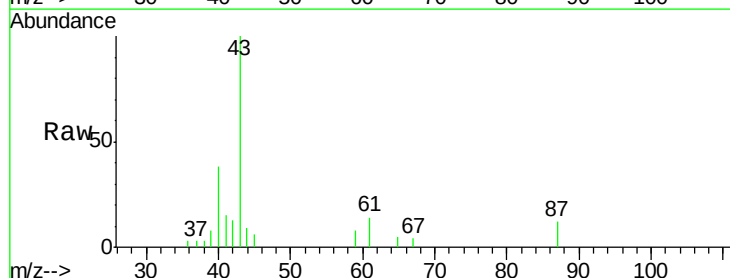
Instrument :
MSVOA_N
ClientSampleId :
ROCK-COMP

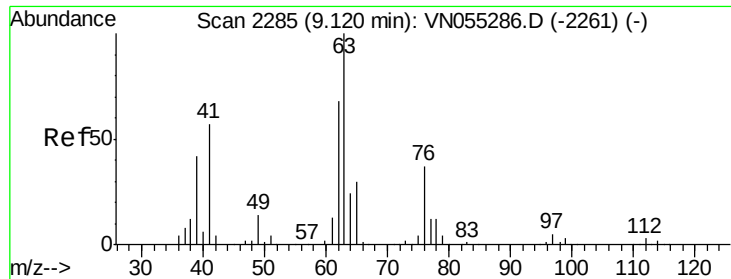
Tot Ion: 41 Resp: 183
Ion Ratio Lower Upper
41 100
39 38.8 48.5 72.7#
67 0.0 54.9 82.3#
52 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.994 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion: 43 Resp: 14511
Ion Ratio Lower Upper
43 100
61 8.4 20.8 31.2#
87 12.1 8.5 12.7

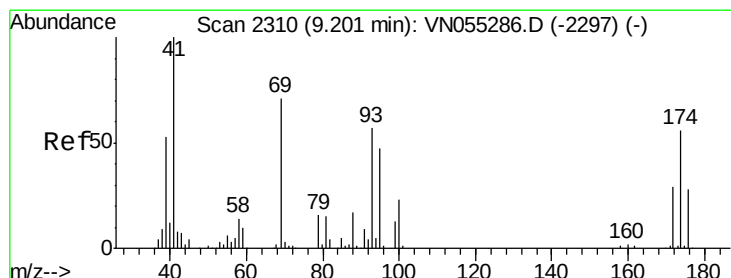
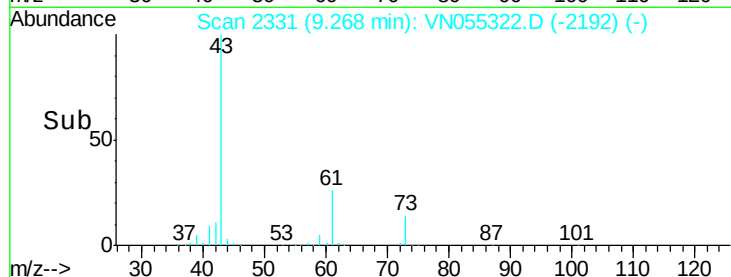
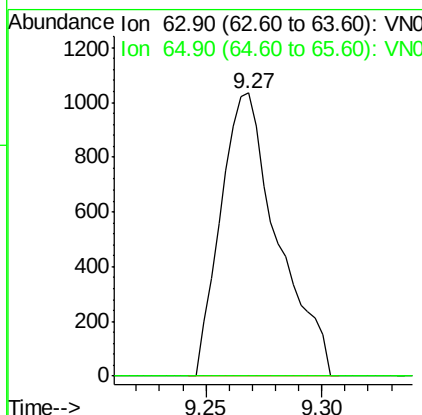
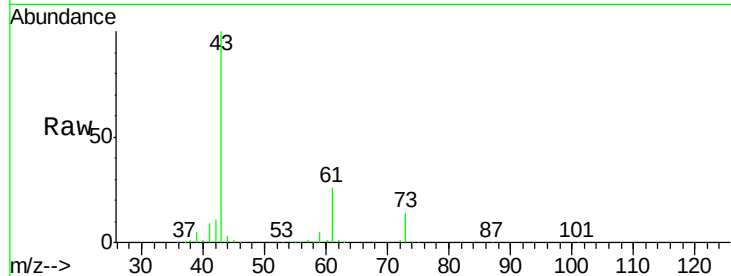




#45
 1,2-Dichloropropane
 Concen: 0.350 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

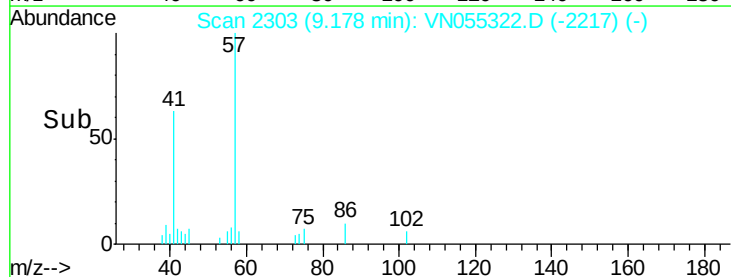
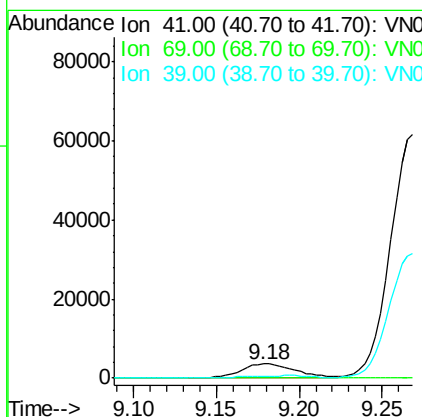
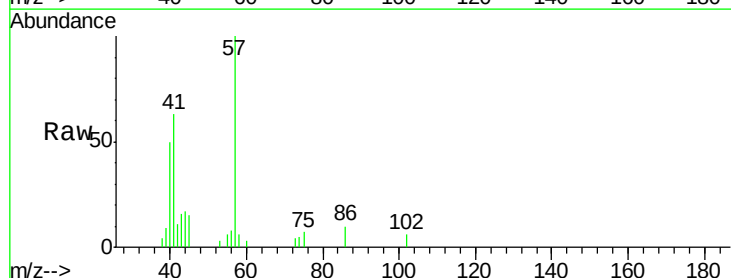
Instrument :
 MSVOA_N
 ClientSampleId :
 ROCK-COMP

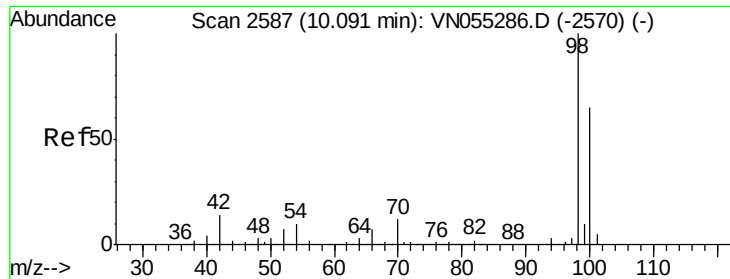
Tot Ion: 63 Resp: 1759
 Ion Ratio Lower Upper
 63 100
 65 0.0 23.9 35.9#



#48
 Methyl methacrylate
 Concen: 2.320 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

Tgt Ion: 41 Resp: 8300
 Ion Ratio Lower Upper
 41 100
 69 0.0 58.6 87.8#
 39 0.0 43.8 65.6#

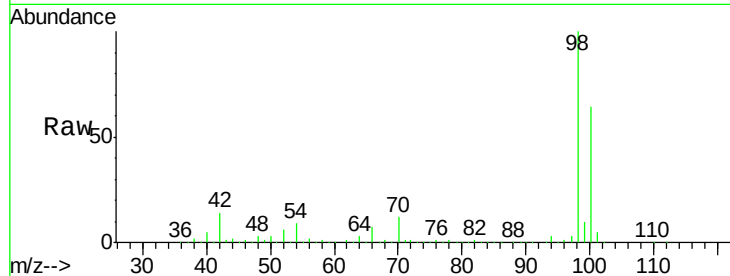




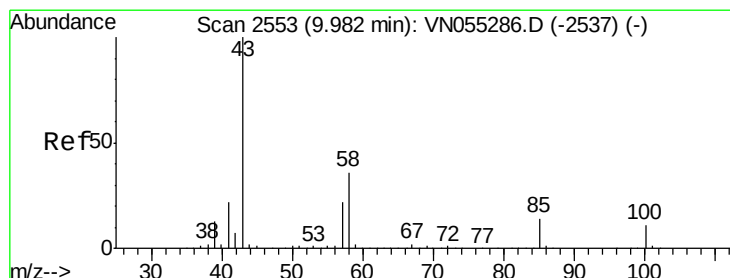
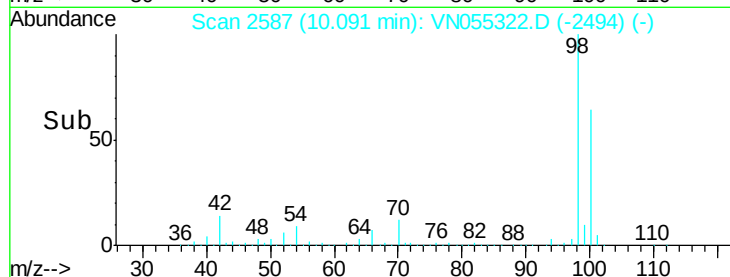
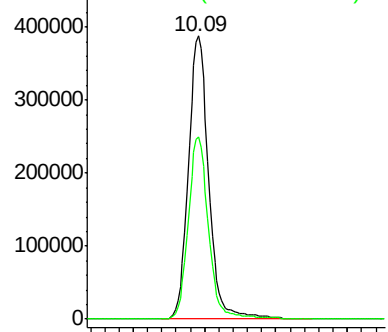
#50
Toluene-d8
Concen: 52.124 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Instrument :
MSVOA_N
ClientSampleId :
ROCK-COMP

Tot Ion: 98 Resp: 762008
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5

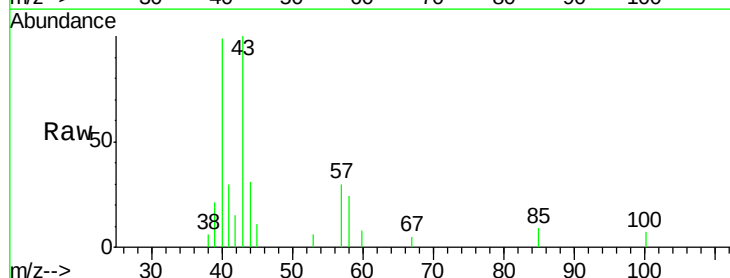


Abundance Ion 98.00 (97.70 to 98.70): VN055322.D (-2494) (-)
Ion 100.00 (99.70 to 100.70): VN055322.D (-2494) (-)

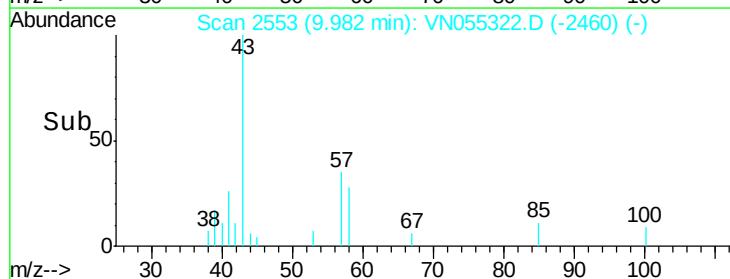
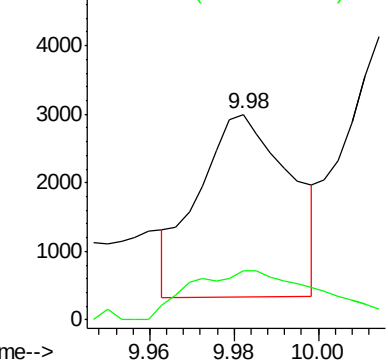


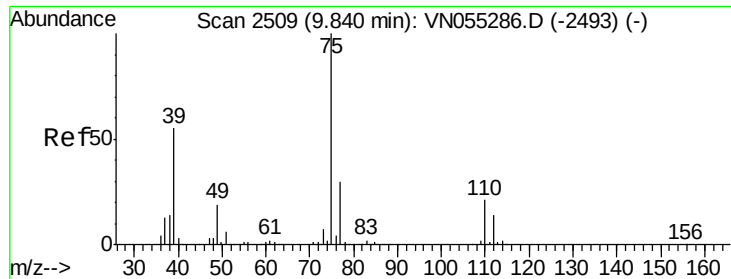
#51
4-Methyl-2-Pentanone
Concen: 0.989 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion: 43 Resp: 4052
Ion Ratio Lower Upper
43 100
58 37.9 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VN055322.D (-2460) (-)
Ion 58.00 (57.70 to 58.70): VN055322.D (-2460) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.631 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

ROCK-COMP

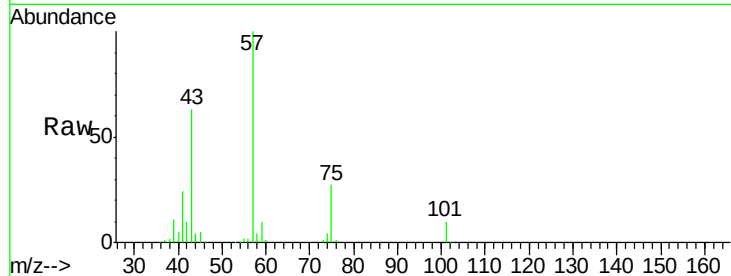
Tot Ion: 75 Resp: 48652

Ion Ratio Lower Upper

75 100

77 0.0 24.2 36.2#

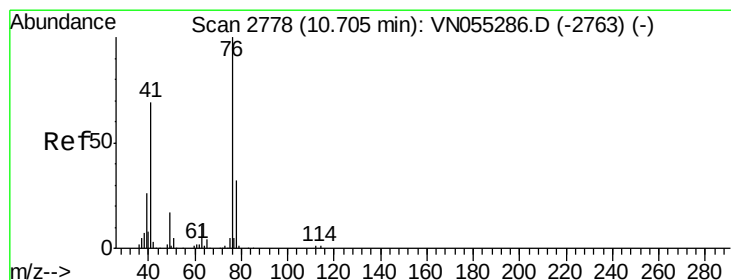
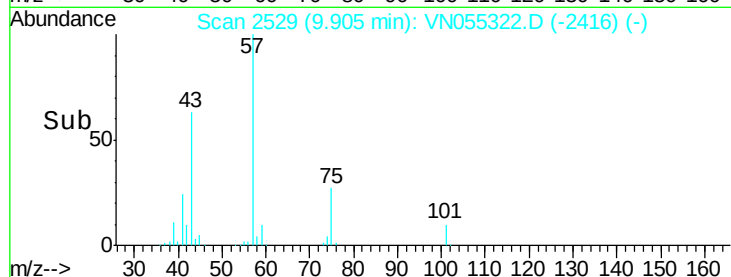
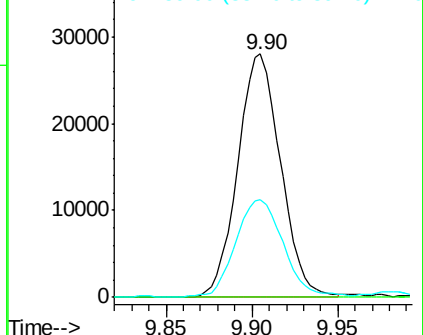
39 39.4 44.2 66.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropene

Concen: 1.418 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055322.D

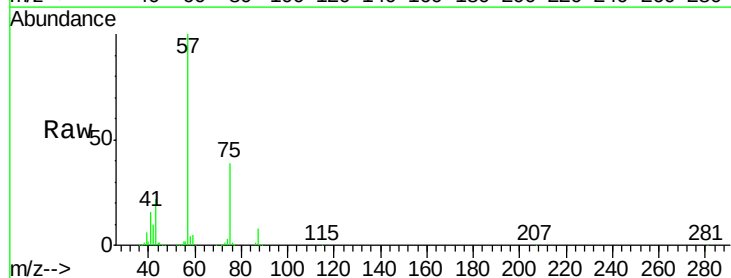
Acq: 1 May 2019 12:11

Tgt Ion: 76 Resp: 9228

Ion Ratio Lower Upper

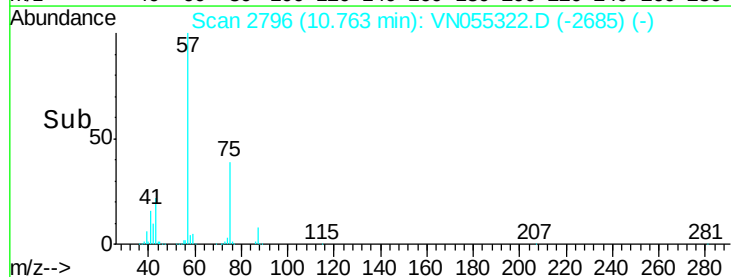
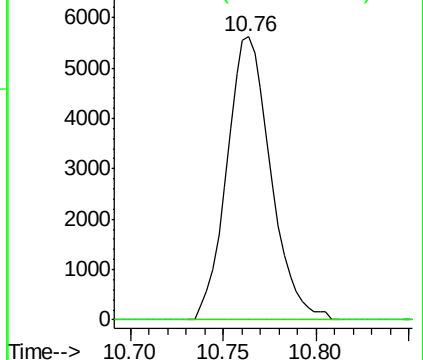
76 100

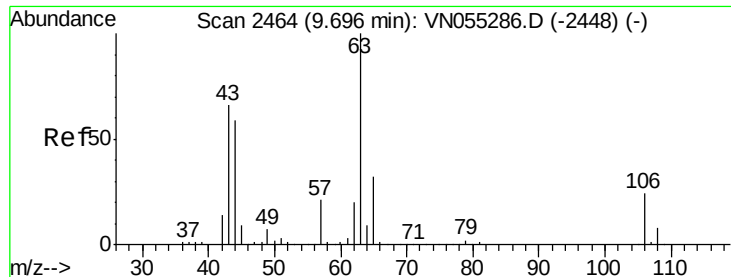
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

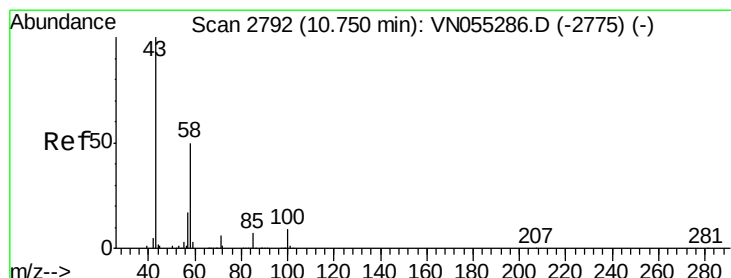
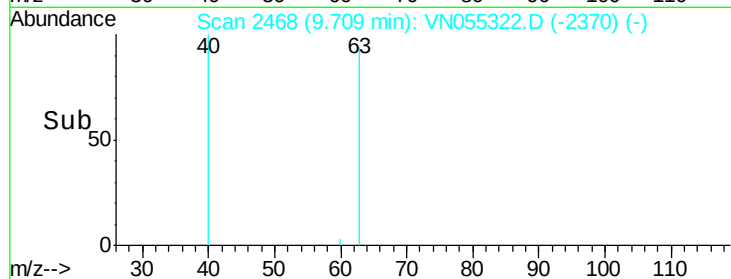
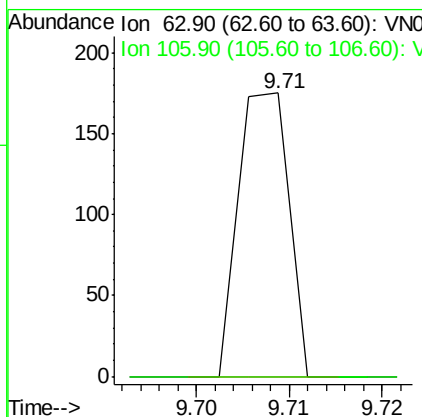
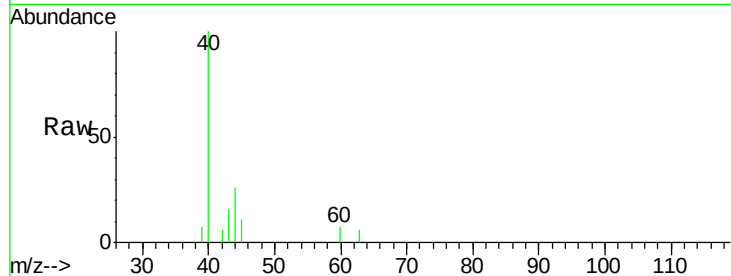




#58
 2-Chloroethyl Vinyl ether
 Concen: 12.450 ug/l
 RT: 9.71 min Scan# 2468
 Delta R.T. 0.01 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

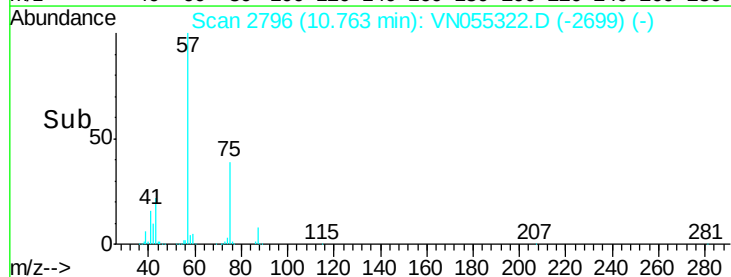
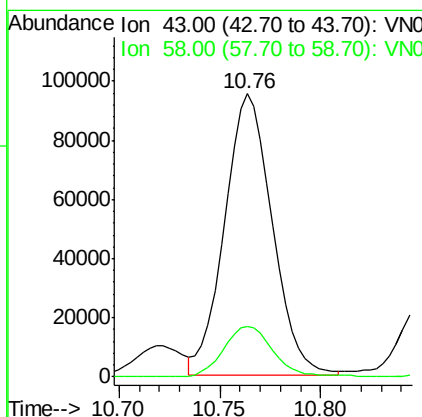
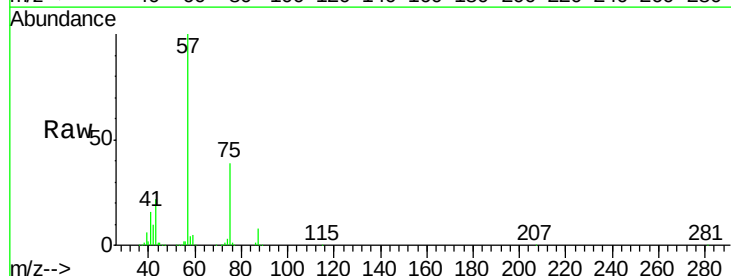
Instrument :
 MSVOA_N
 ClientSampleId :
 ROCK-COMP

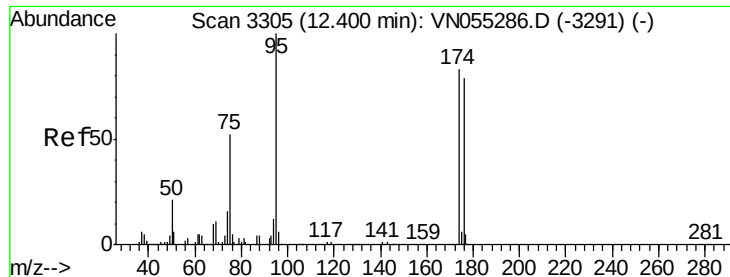
Tot Ion: 63 Resp: 67
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.0 28.4#



#59
 2-Hexanone
 Concen: 61.646 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

Tgt Ion: 43 Resp: 158029
 Ion Ratio Lower Upper
 43 100
 58 18.8 24.9 74.6#





#62

4-Bromofluorobenzene

Concen: 53.488 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

ROCK-COMP

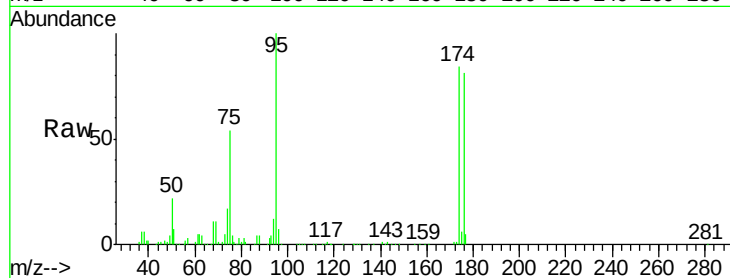
Tot Ion: 95 Resp: 244385

Ion Ratio Lower Upper

95 100

174 84.9 0.0 166.6

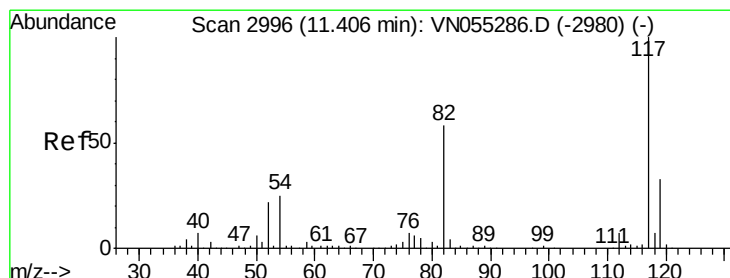
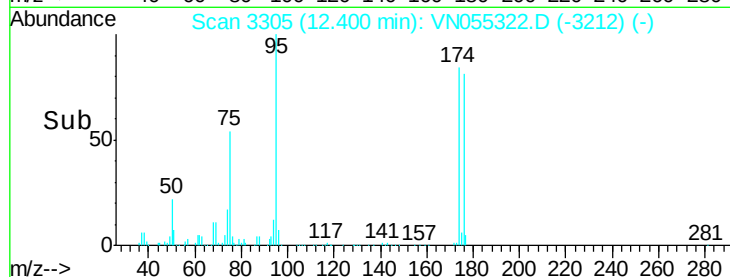
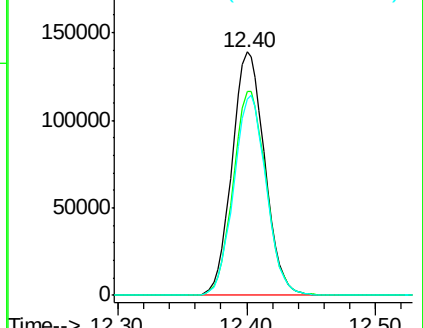
176 81.6 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN055322.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN055322.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055322.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

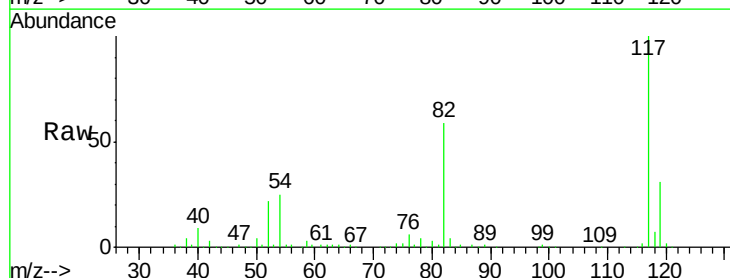
Tgt Ion: 117 Resp: 574869

Ion Ratio Lower Upper

117 100

82 59.0 46.2 69.4

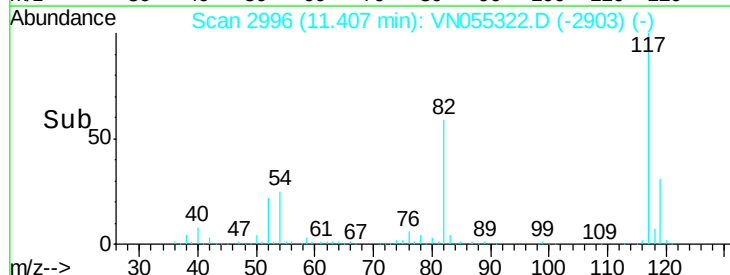
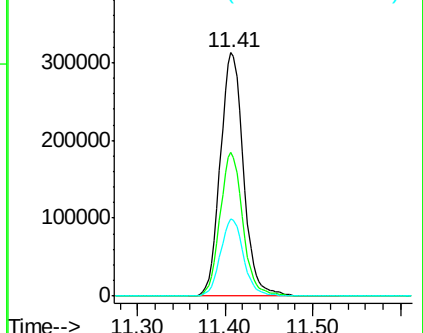
119 31.5 26.6 40.0

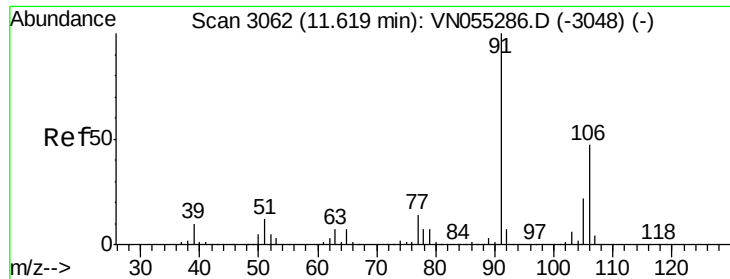


Abundance Ion 116.90 (116.60 to 117.60): VN055322.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055322.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055322.D (-2903) (-)

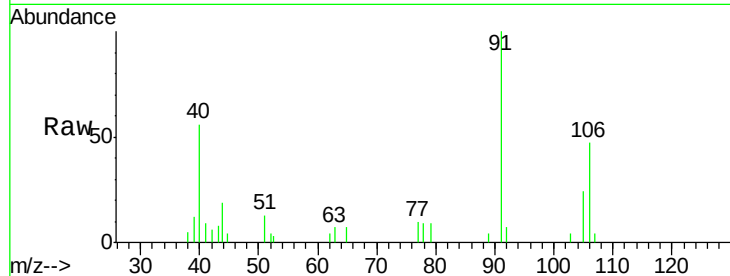




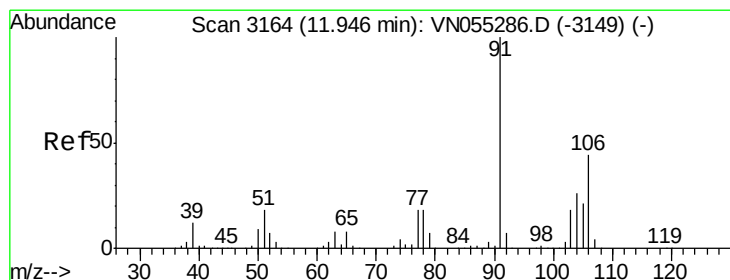
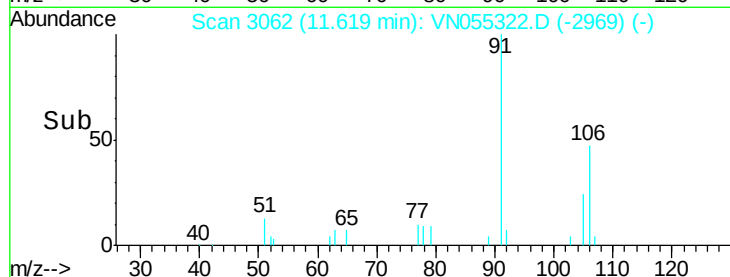
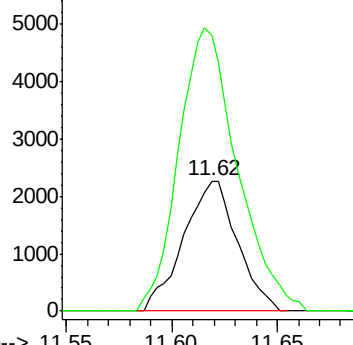
#68
m/p-Xylenes
Concen: 0.557 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Instrument :
MSVOA_N
ClientSampled :
ROCK-COMP

Tot Ion:106 Resp: 4036
Ion Ratio Lower Upper
106 100
91 236.1 169.5 254.3

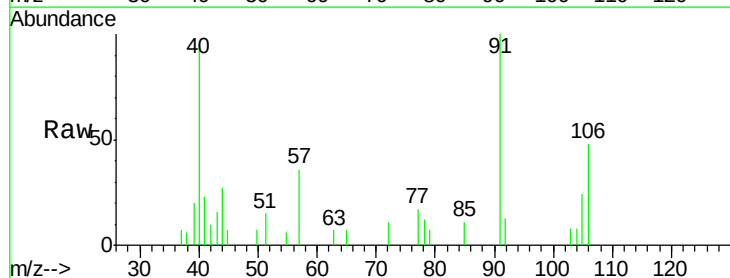


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

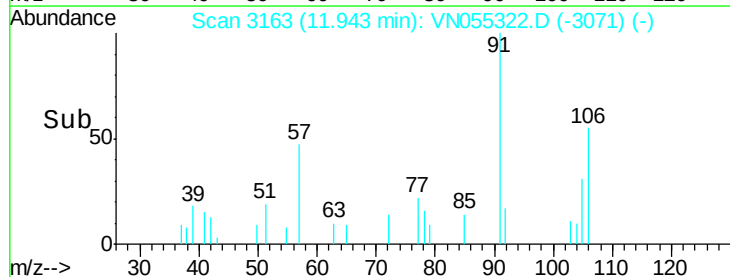
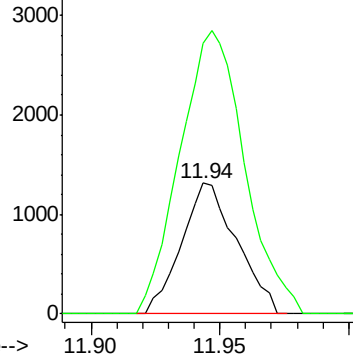


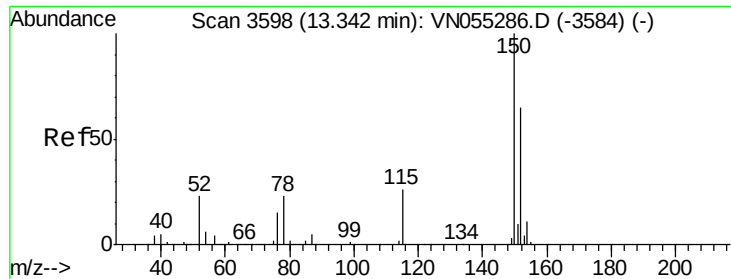
#69
o-Xylene
Concen: 0.274 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion:106 Resp: 1971
Ion Ratio Lower Upper
106 100
91 252.5 111.5 334.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0



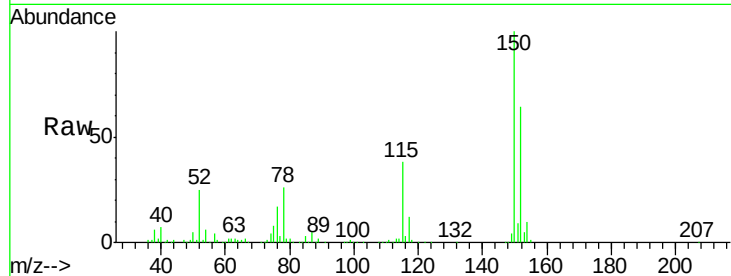


#72

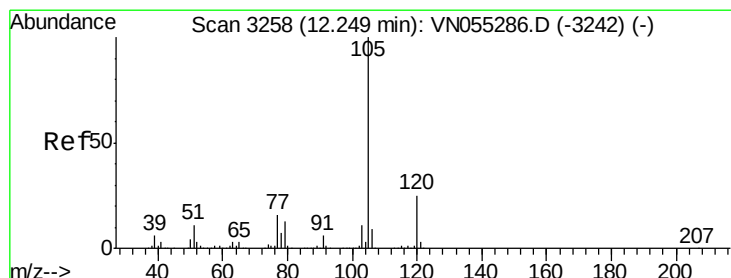
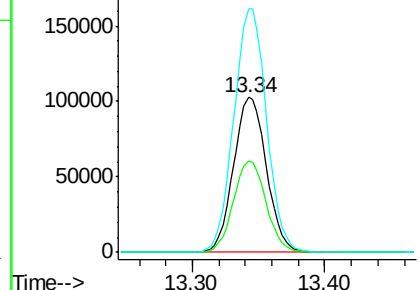
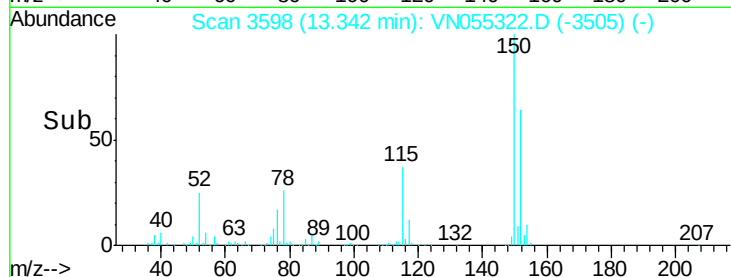
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Instrument :
MSVOA_N
ClientSampleId :
ROCK-COMP

Tot Ion:152 Resp: 176578
Ion Ratio Lower Upper
152 100
115 58.6 29.0 87.0
150 156.6 0.0 345.6



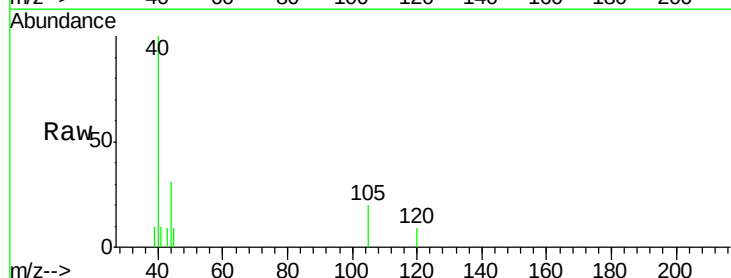
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



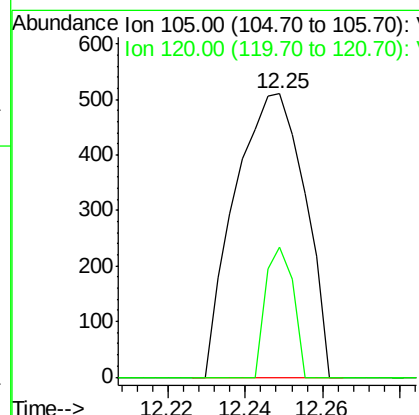
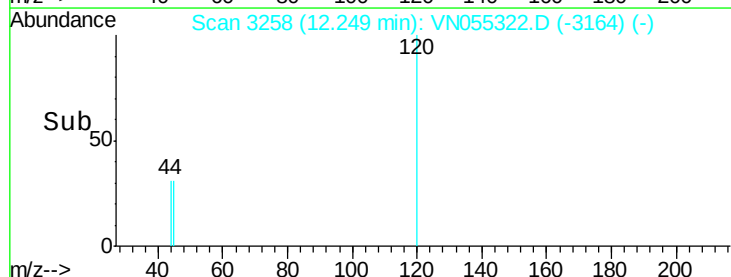
#73

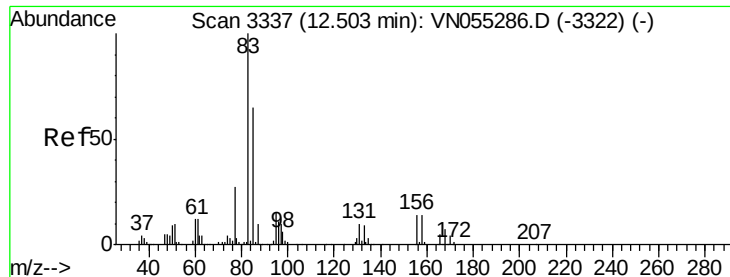
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055322.D
Acq: 1 May 2019 12:11

Tgt Ion:105 Resp: 639
Ion Ratio Lower Upper
105 100
120 18.3 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# 3308

Delta R.T. -0.09 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

ROCK-COMP

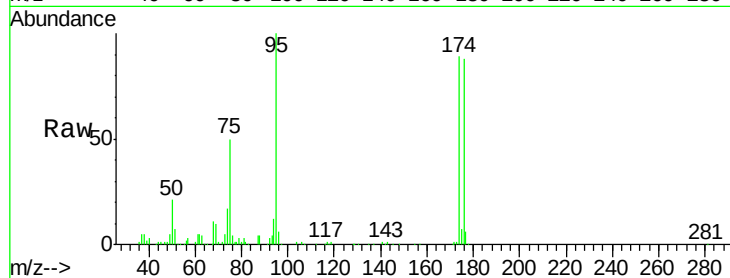
Tot Ion: 83 Resp: 122

Ion Ratio Lower Upper

83 100

131 190.2 5.1 15.2#

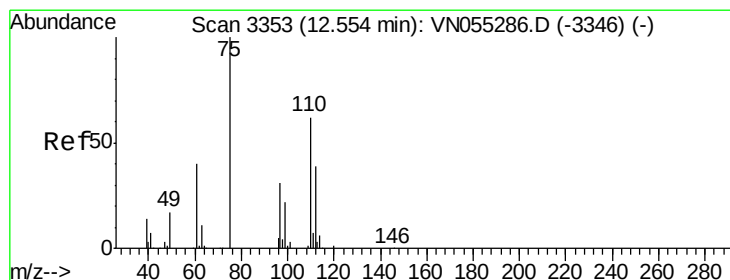
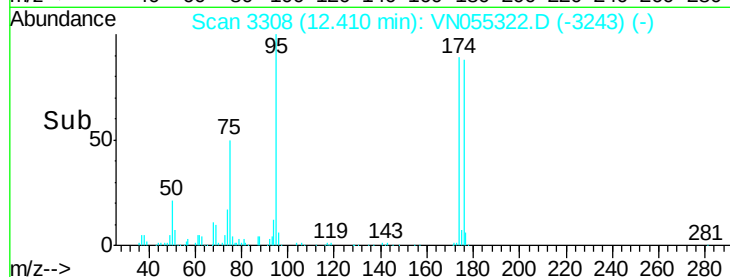
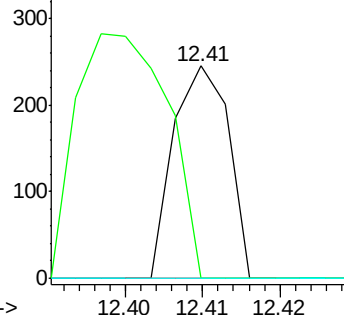
85 0.0 32.3 96.8#



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



#76

1,2,3-Trichloropropane

Concen: 37.893 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055322.D

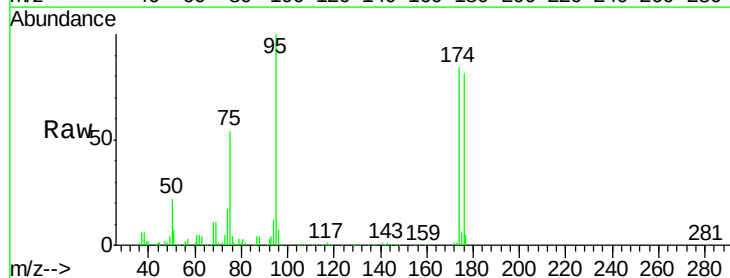
Acq: 1 May 2019 12:11

Tgt Ion: 75 Resp: 126372

Ion Ratio Lower Upper

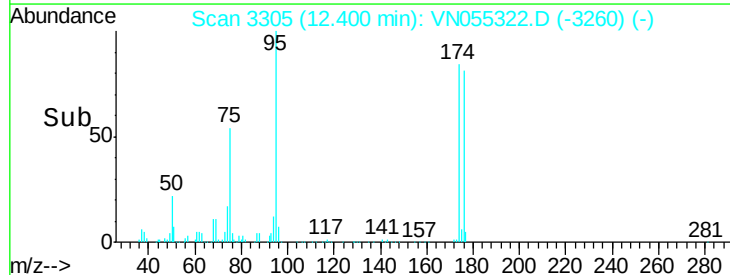
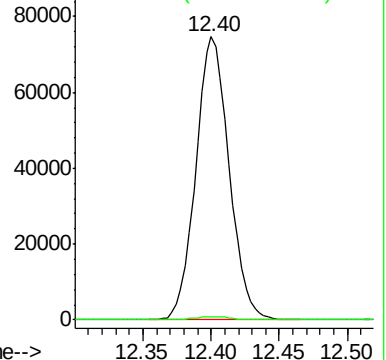
75 100

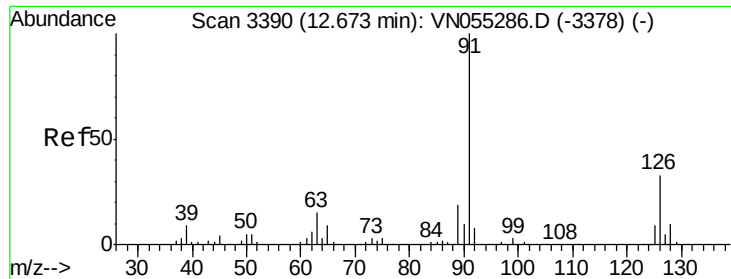
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

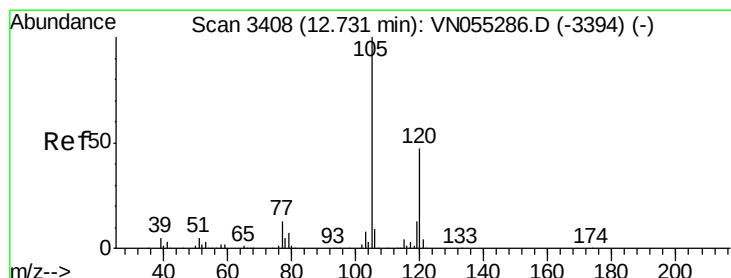
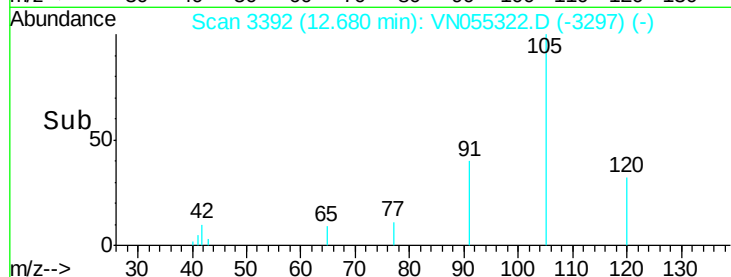
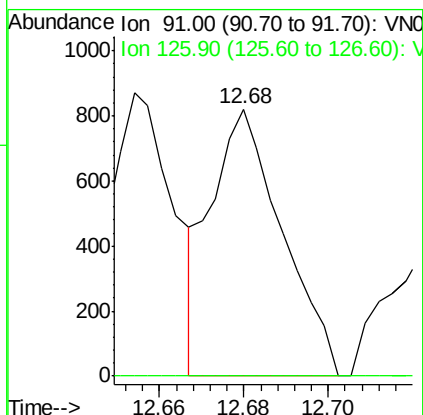
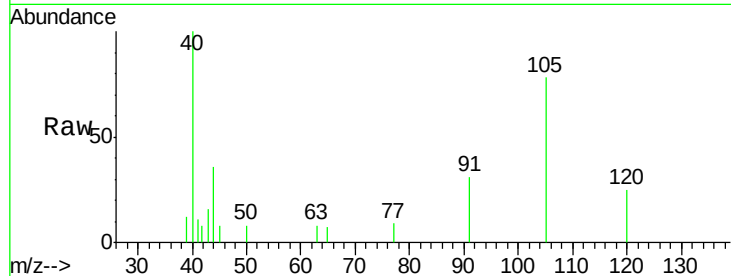




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.68 min Scan# 3392
 Delta R.T. 0.01 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

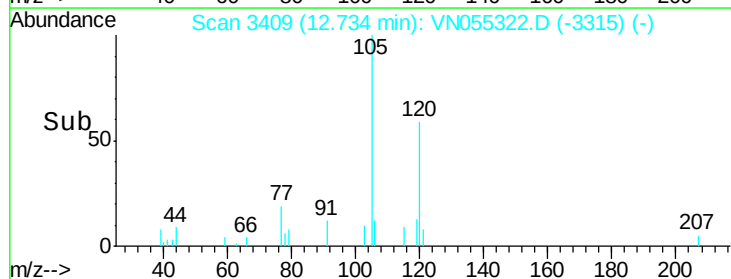
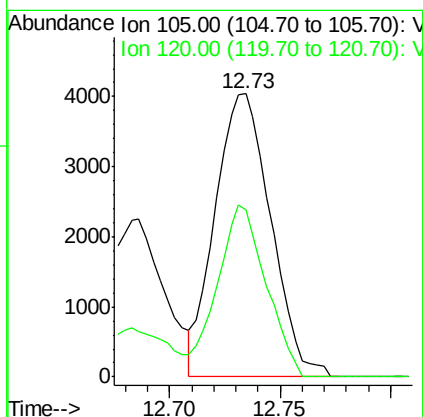
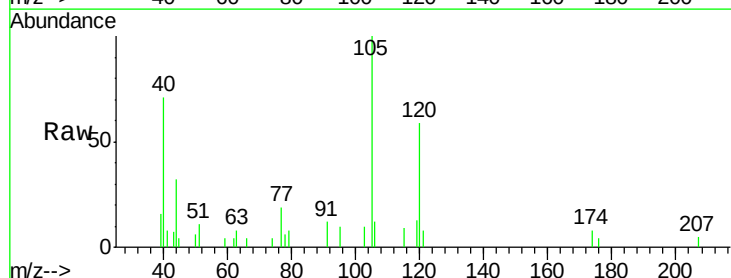
Instrument :
 MSVOA_N
 ClientSampleId :
 ROCK-COMP

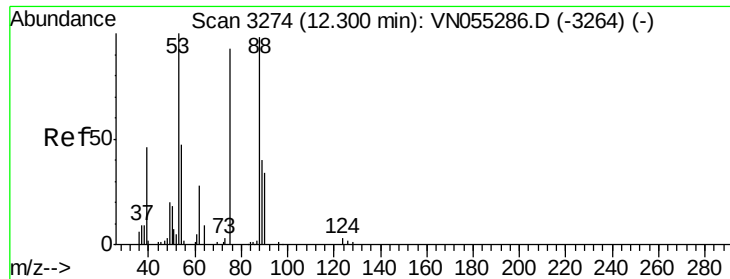
Tot Ion: 91 Resp: 955
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.6 49.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.511 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

Tgt Ion: 105 Resp: 7074
 Ion Ratio Lower Upper
 105 100
 120 53.6 23.4 70.0

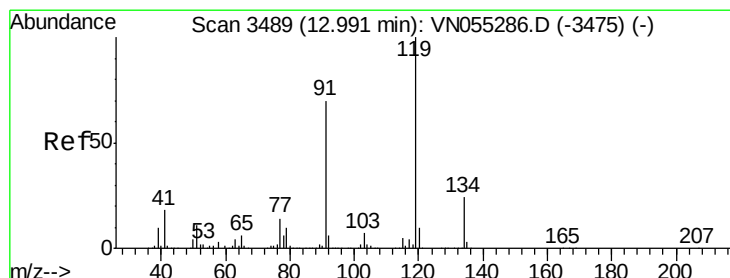
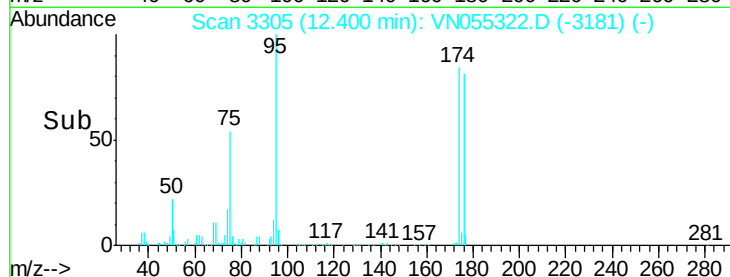
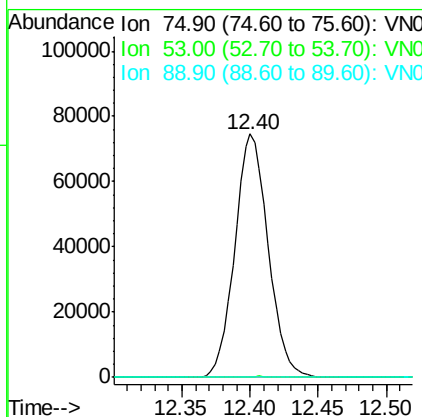
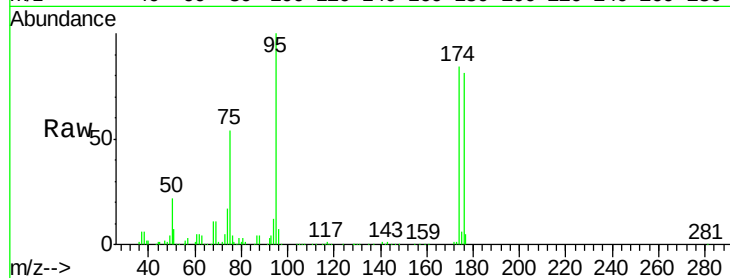




#81
 trans-1,4-Dichloro-2-butene
 Concen: 135.625 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

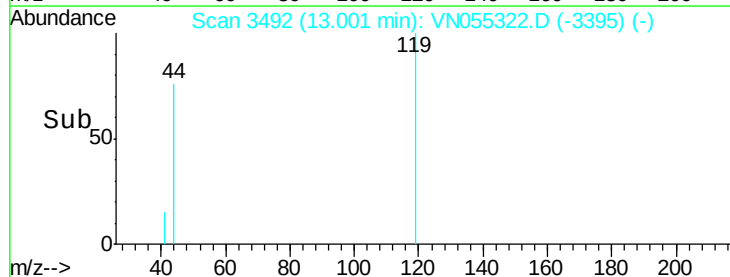
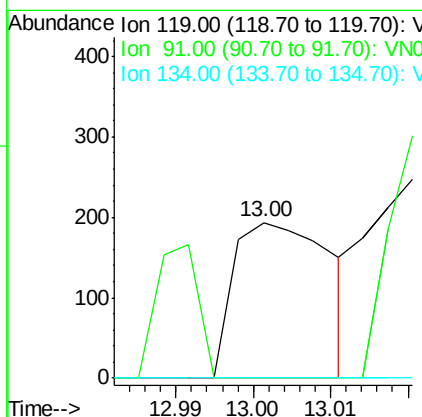
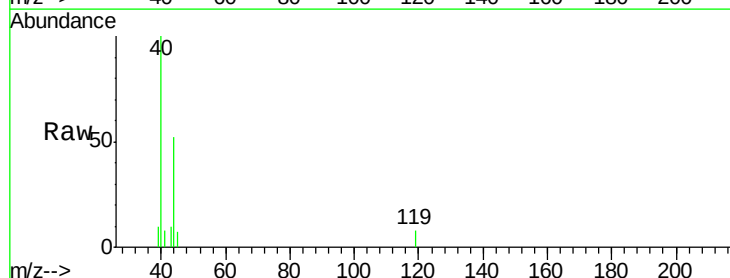
Instrument :
 MSVOA_N
 ClientSampleId :
 ROCK-COMP

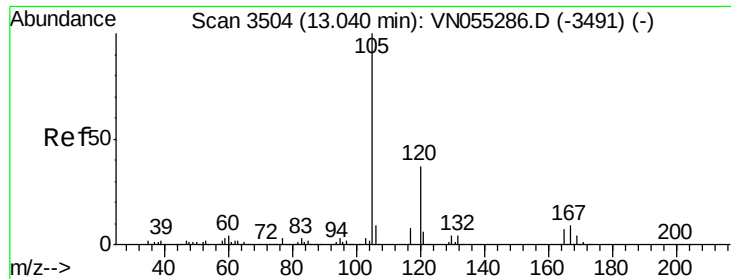
Tot Ion: 75 Resp: 126372
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.3 129.5#
 89 0.1 34.6 51.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3492
 Delta R.T. 0.01 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

Tgt Ion: 119 Resp: 168
 Ion Ratio Lower Upper
 119 100
 91 0.0 34.3 102.9#
 134 0.0 13.1 39.3#





#84

1,2,4-Trimethylbenzene

Concen: 1.676 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

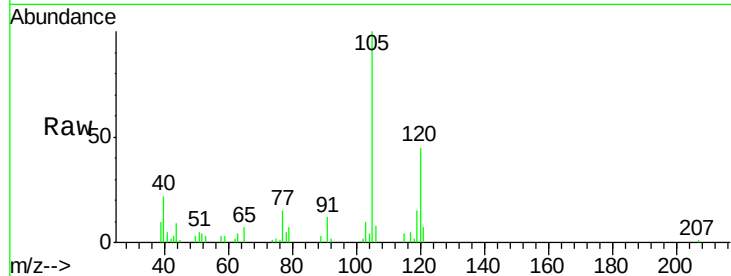
ROCK-COMP

Tot Ion:105 Resp: 20749

Ion Ratio Lower Upper

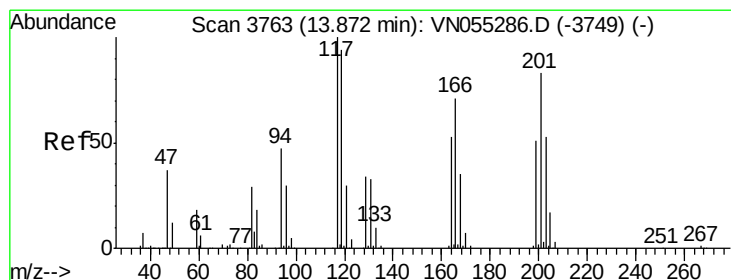
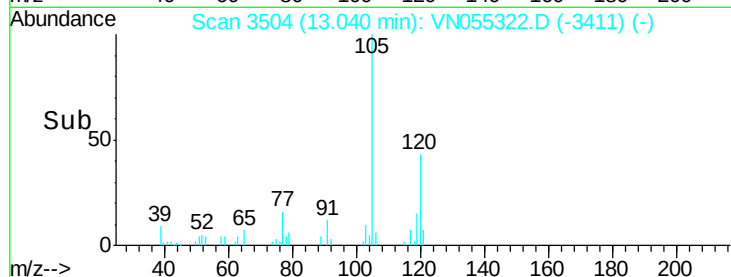
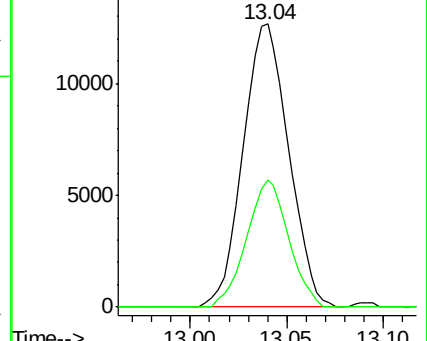
105 100

120 41.4 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN055322.D

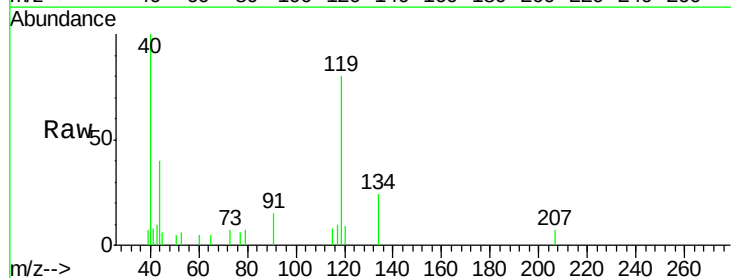
Acq: 1 May 2019 12:11

Tgt Ion:117 Resp: 219

Ion Ratio Lower Upper

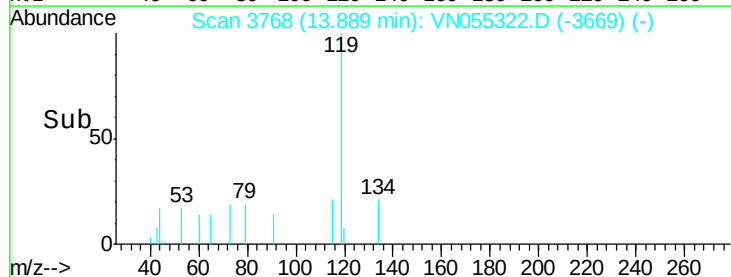
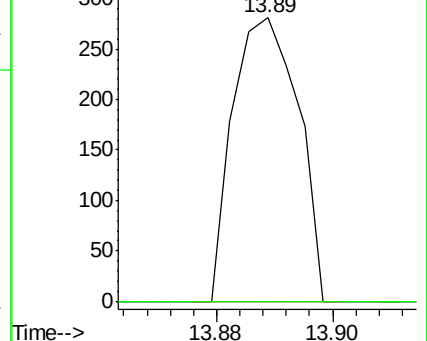
117 100

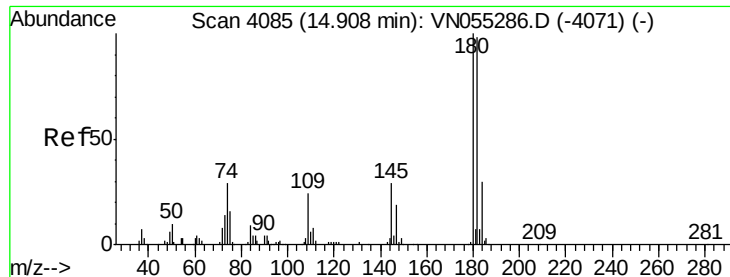
201 0.0 41.9 125.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

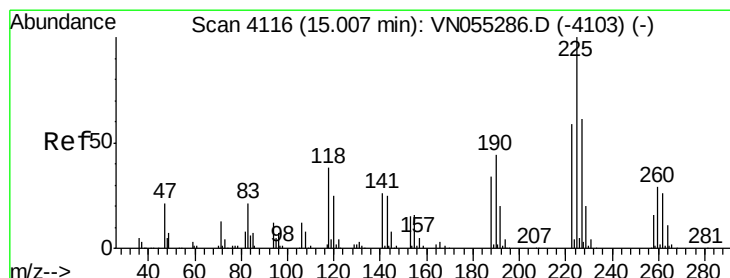
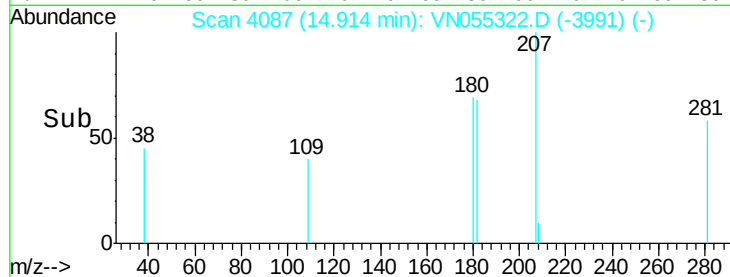
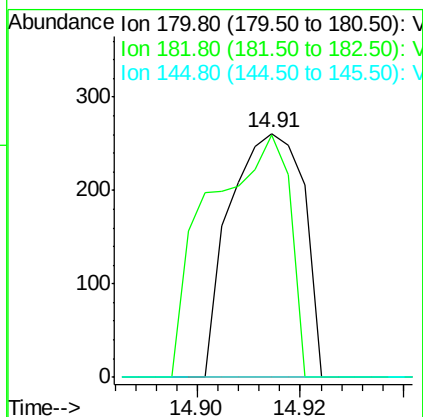
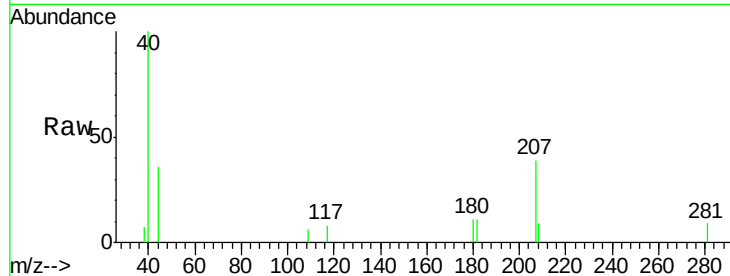




#93
 1,2,4-Trichlorobenzene
 Concen: 3.415 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

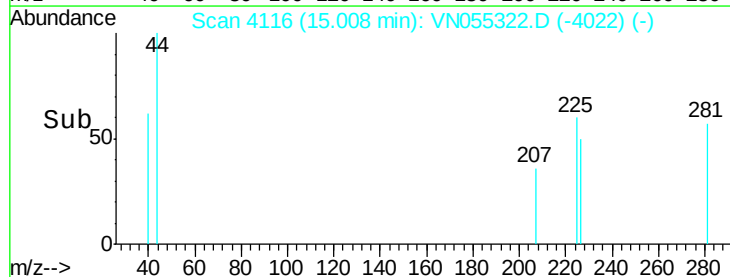
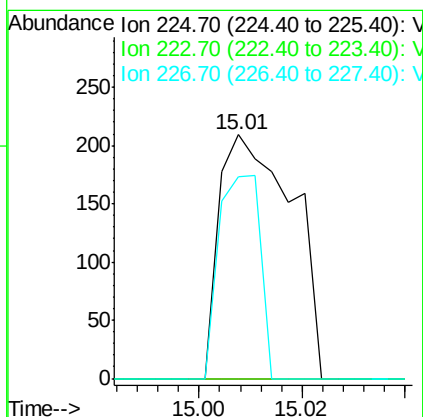
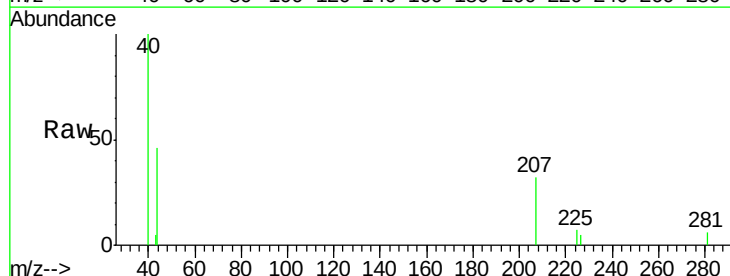
Instrument :
 MSVOA_N
 ClientSampleId :
 ROCK-COMP

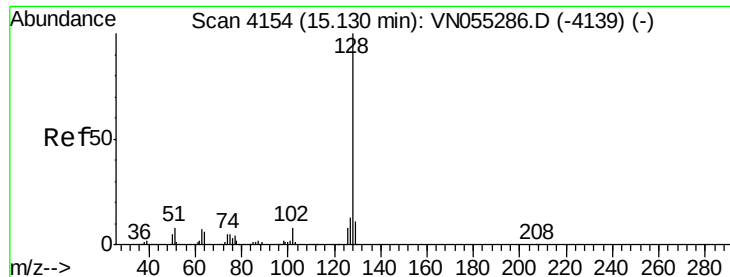
Tot Ion:180 Resp: 257
 Ion Ratio Lower Upper
 180 100
 182 109.3 48.3 144.9
 145 0.0 14.2 42.6#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055322.D
 Acq: 1 May 2019 12:11

Tgt Ion:225 Resp: 205
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.3 90.8#
 227 46.8 30.9 92.7





#95

Naphthalene

Concen: 6.336 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

ROCK-COMP

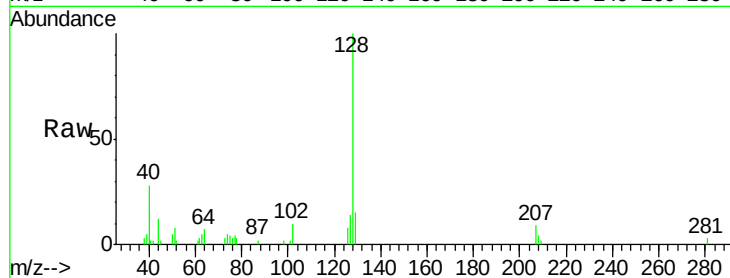
Tot Ion:128 Resp: 15816

Ion Ratio Lower Upper

128 100

127 12.4 10.7 16.1

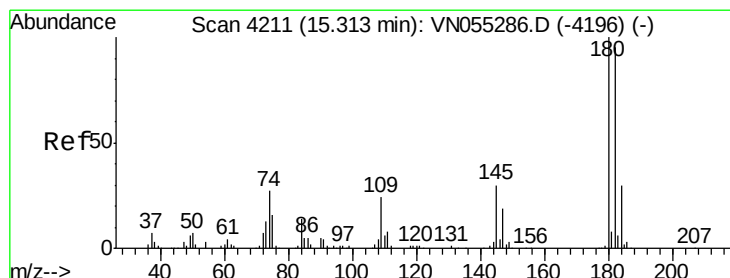
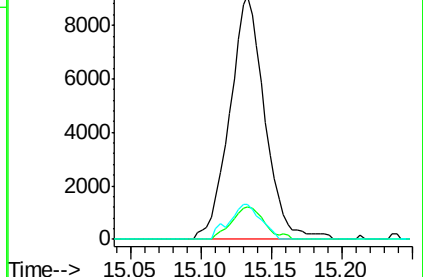
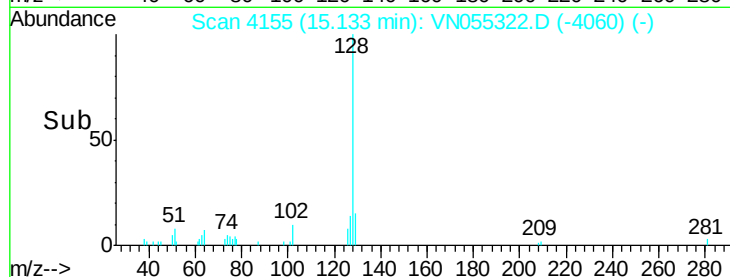
129 13.0 8.6 13.0#



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: 2.746 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN055322.D

Acq: 1 May 2019 12:11

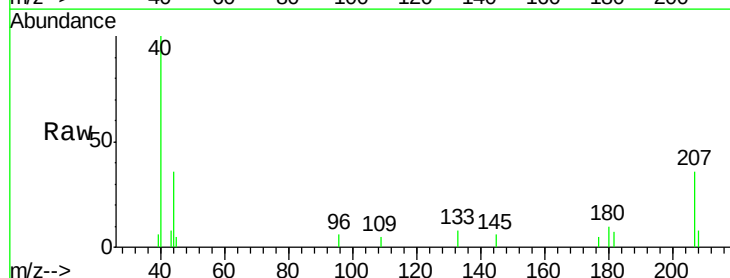
Tgt Ion:180 Resp: 321

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 33.6 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

