

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054341.D
 Acq On : 16 Mar 2019 17:13
 Operator : JC/SP
 Sample : K1960-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-9-9.0-031419

Quant Time: Mar 18 04:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	2428878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	3520365	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2963636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1316483	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	1110698	43.06	ug/l	0.00
Spiked Amount			Recovery	=	86.12%	
35) Dibromofluoromethane	7.59	113	976209	43.00	ug/l	0.00
Spiked Amount			Recovery	=	86.00%	
50) Toluene-d8	10.09	98	4040180	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
62) 4-Bromofluorobenzene	12.40	95	1284198	43.77	ug/l	0.00
Spiked Amount			Recovery	=	87.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.85	101	91405	3.590	ug/l #	16
10) Methyl Iodide	3.93	142	121	1.500	ug/l #	47
11) Tert butyl alcohol	4.81	59	664	0.375	ug/l #	70
13) Acrolein	3.62	56	274419	163.768	ug/l #	1
14) Allyl chloride	4.09	41	427360	13.200	ug/l #	67
16) Acetone	3.62	43	993355	134.498	ug/l #	1
18) Methyl Acetate	4.09	43	1235254	82.668	ug/l #	49
19) Methyl tert-butyl Ether	5.04	73	51093	0.817	ug/l	96
20) Methylene Chloride	4.54	84	5494	0.227	ug/l #	74
22) Diisopropyl ether	6.17	45	4572679	70.768	ug/l #	1
23) Vinyl Acetate	6.17	43	10172505	213.523	ug/l #	70
25) 2-Butanone	6.86	43	68581	7.912	ug/l #	88
29) Tetrahydrofuran	7.24	42	49574	8.895	ug/l #	31
31) Cyclohexane	7.65	56	71193	0.623	ug/l #	42
36) 1,1-Dichloropropene	7.66	75	145055	4.474	ug/l #	49
37) Ethyl Acetate	6.86	43	68581	3.682	ug/l #	68
38) Carbon Tetrachloride	7.66	117	205203	6.036	ug/l #	16
39) Methylcyclohexane	9.08	83	139497	3.497	ug/l	98
43) Isopropyl Acetate	8.29	43	63764	1.950	ug/l #	60
45) 1,2-Dichloropropane	9.12	63	29625	1.286	ug/l #	1
48) Methyl methacrylate	9.17	41	102650	6.186	ug/l #	11
49) 1,4-Dioxane	9.21	88	495	2.109	ug/l #	27
52) Toluene	10.16	92	55815	0.949	ug/l	96
53) t-1,3-Dichloropropene	10.35	75	50908	3.356	ug/l #	56
55) 1,1,2-Trichloroethane	10.53	97	24348	1.134	ug/l #	19
56) Ethyl methacrylate	10.28	69	2412004	94.180	ug/l #	27
57) 1,3-Dichloropropane	10.76	76	29953	0.853	ug/l #	44
58) 2-Chloroethyl Vinyl ether	9.70	63	803	16.895	ug/l #	44
59) 2-Hexanone	10.50	43	227364	19.747	ug/l	83
67) Ethyl Benzene	11.51	91	94357	0.875	ug/l	97
68) m/p-Xylenes	11.62	106	107123	2.541	ug/l	92
69) o-Xylene	11.95	106	62227	1.514	ug/l	99
71) Bromoform	12.40	173	7694	2.758	ug/l #	1
73) Isopropylbenzene	12.25	105	315977	3.000	ug/l	100

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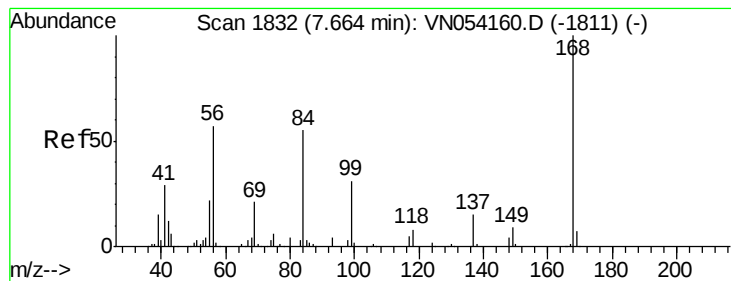
Instrument :
 MSVOA_N
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

74) N-amy1 acetate	12.04	43	12906	0.552	uq/l #	49
76) 1,2,3-Trichloropropane	12.40	75	572678	29.581	uq/l #	100
78) n-propylbenzene	12.59	91	615865	5.389	uq/l	100
79) 2-Chlorotoluene	12.59	91	615865	8.962	uq/l #	38
80) 1,3,5-Trimethylbenzene	12.73	105	129654	1.480	uq/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	572678	101.122	uq/l #	11
82) 4-Chlorotoluene	12.59	91	615865	8.976	uq/l #	39
83) tert-Butylbenzene	12.99	119	41440	0.514	uq/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	538722	6.268	uq/l	99
85) sec-Butylbenzene	13.17	105	348655	3.334	uq/l	83
86) p-Isopropyltoluene	13.29	119	88709	0.967	uq/l	97
87) 1,3-Dichlorobenzene	13.28	146	9452	0.201	uq/l #	82
88) 1,4-Dichlorobenzene	13.36	146	10675	0.231	uq/l #	1
89) n-Butylbenzene	13.61	91	242684	3.481	uq/l #	73
90) Hexachloroethane	13.89	117	103061	6.784	uq/l #	2
92) 1,2-Dibromo-3-Chloropropan	14.29	75	898	0.259	uq/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	18162	3.139	uq/l #	1
94) Hexachlorobutadiene	15.01	225	5047	0.289	uq/l	93
95) Naphthalene	15.13	128	4430659	74.878	uq/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	19895	0.816	uq/l #	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054341.D

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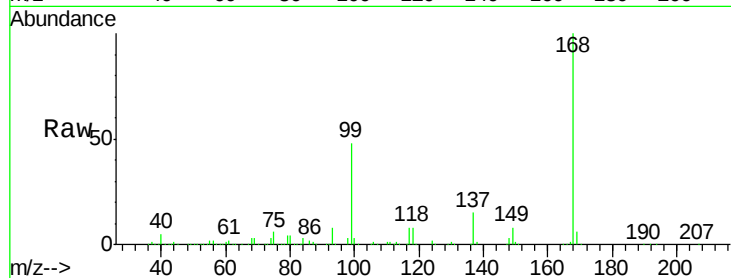
T11-MW-9-9.0-031419

Tot Ion:168 Resp: 2428878

Ion Ratio Lower Upper

168 100

99 47.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

1200000

1000000

800000

600000

400000

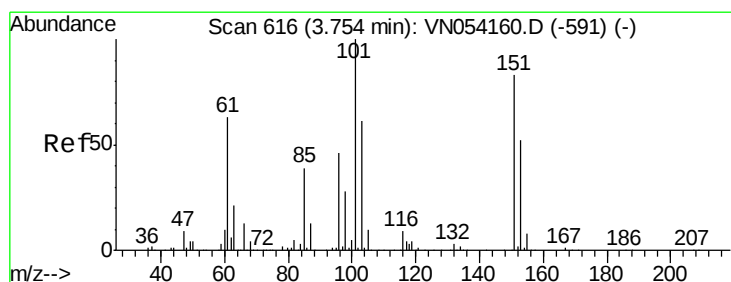
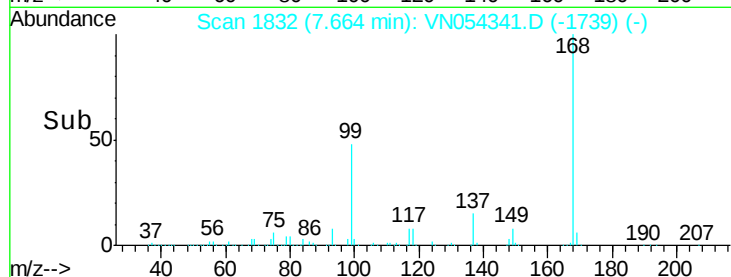
200000

0

7.66

7.60 7.70 7.80

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.590 ug/l

RT: 3.85 min Scan# 645

Delta R.T. 0.09 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

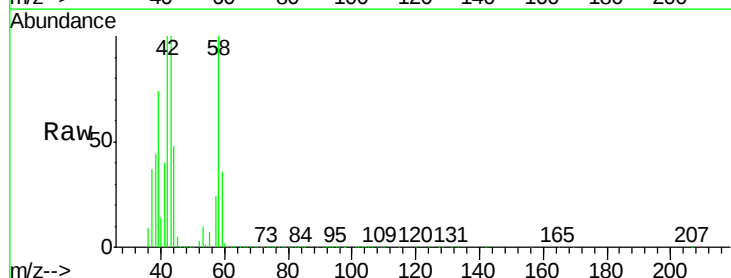
Tgt Ion:101 Resp: 91405

Ion Ratio Lower Upper

101 100

85 0.3 32.4 48.6#

151 0.0 68.2 102.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

50000

40000

30000

20000

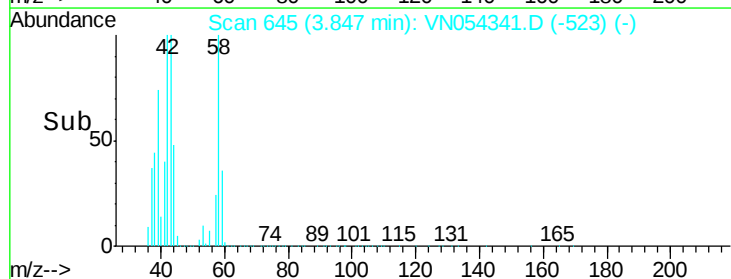
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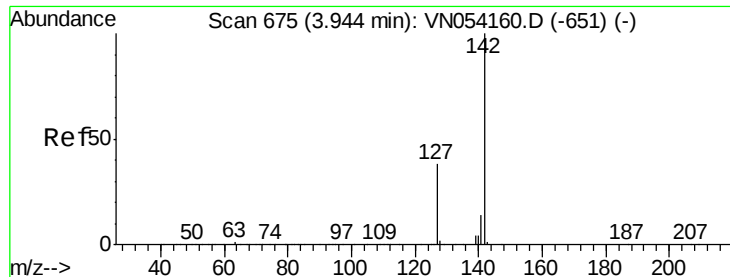
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3.85

3.80 3.90

Time-->

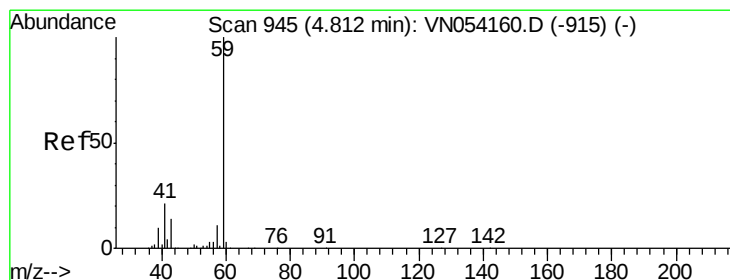
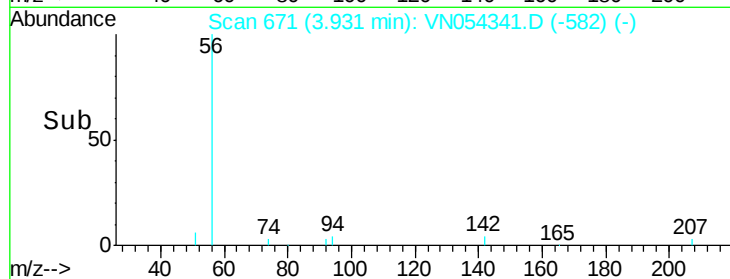
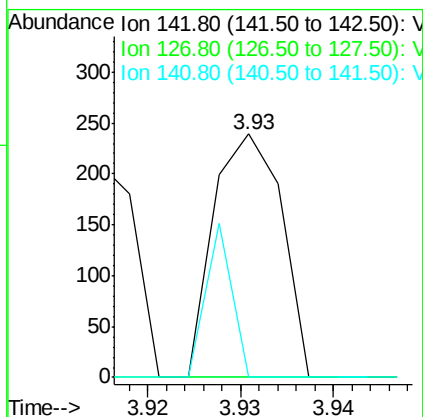
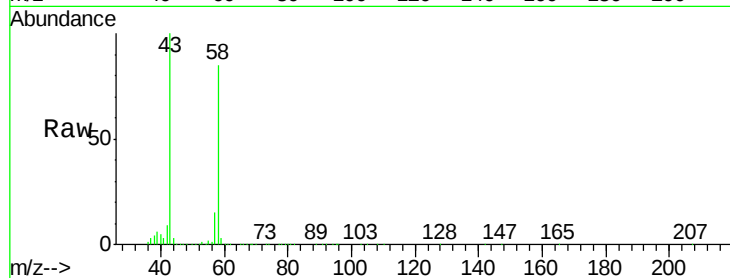




#10
Methvl Iodide
Concen: 1.500 ug/l
RT: 3.93 min Scan# 671
Delta R.T. -0.01 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

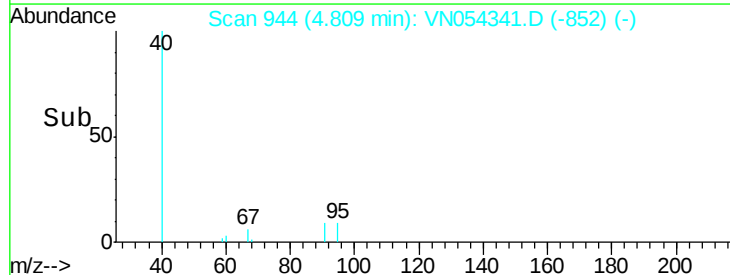
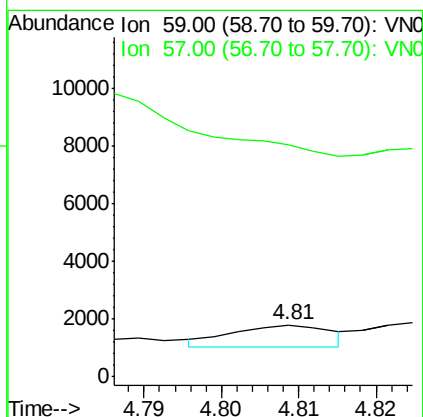
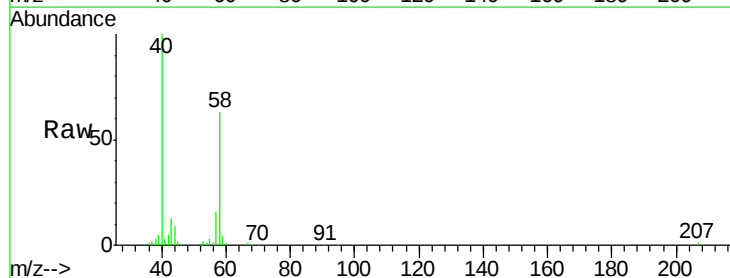
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-9-9.0-031419

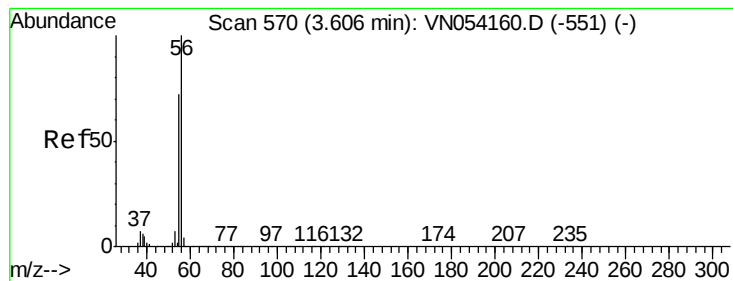
Tot Ion:142 Resp: 121
Ion Ratio Lower Upper
142 100
127 0.0 30.3 45.5#
141 24.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 0.375 ug/l
RT: 4.81 min Scan# 944
Delta R.T. -0.00 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

Tgt Ion: 59 Resp: 664
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#





#13

Acrolein

Concen: 163.768 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

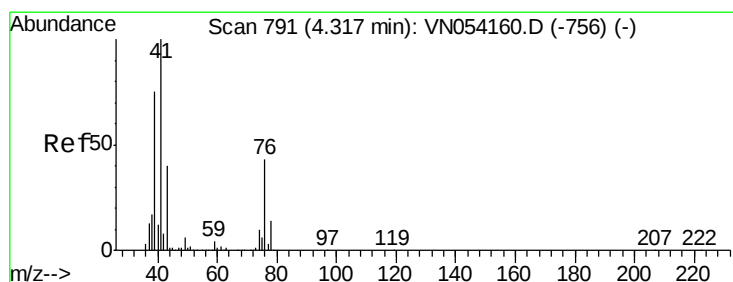
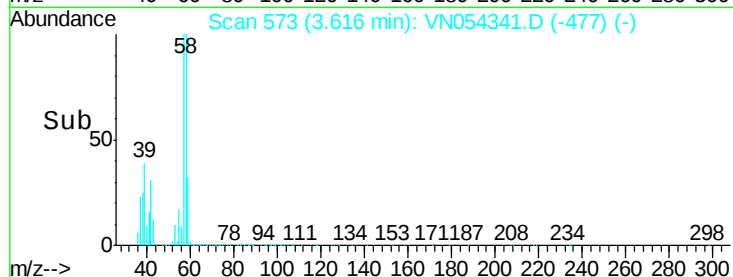
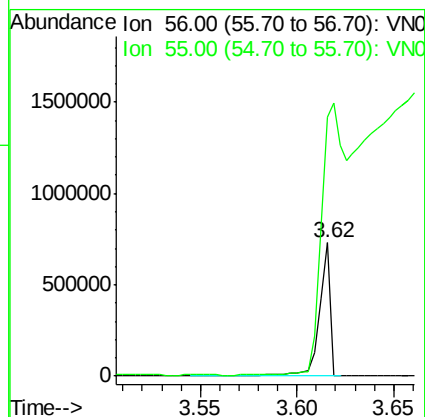
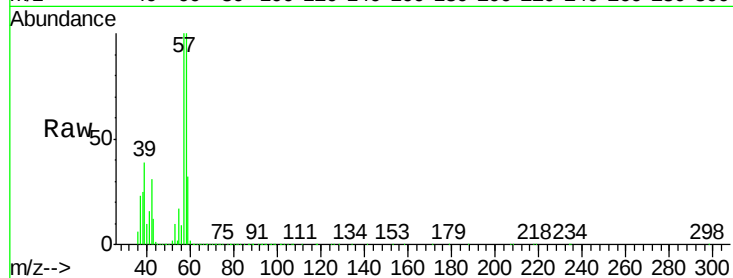
T11-MW-9-9.0-031419

Tot Ion: 56 Resp: 274419

Ion Ratio Lower Upper

56 100

55 453.0 56.7 85.1#



#14

Allyl chloride

Concen: 13.200 ug/l

RT: 4.09 min Scan# 722

Delta R.T. -0.22 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

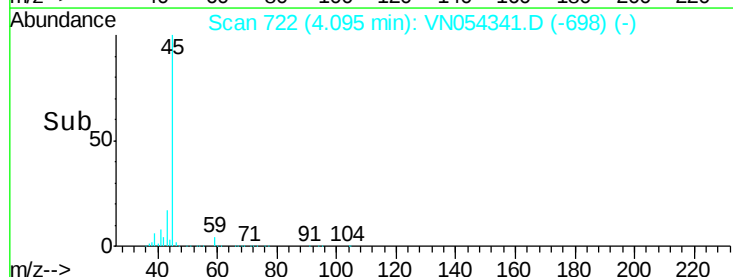
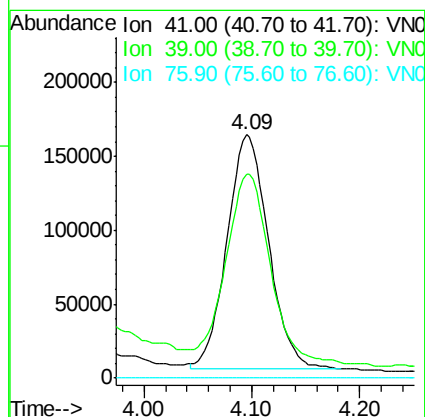
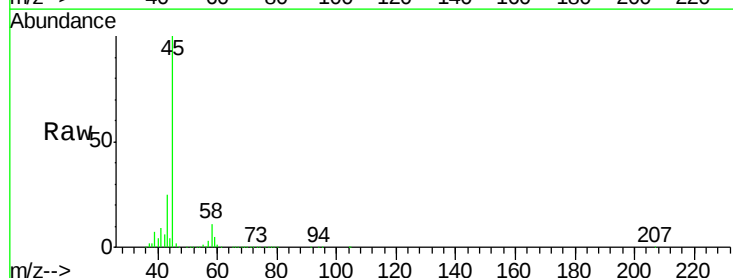
Tgt Ion: 41 Resp: 427360

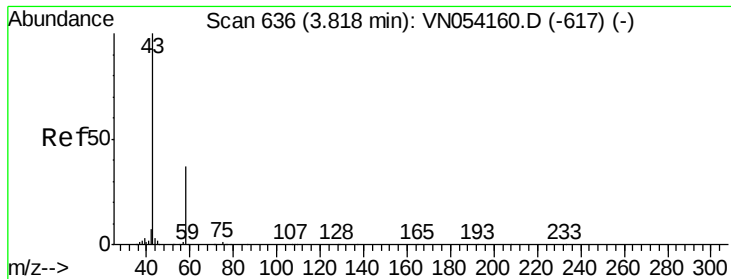
Ion Ratio Lower Upper

41 100

39 86.6 58.2 87.4

76 0.0 31.7 47.5#





#16

Acetone

Concen: 134.498 ug/l

RT: 3.62 min Scan# 574

Delta R.T. -0.20 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

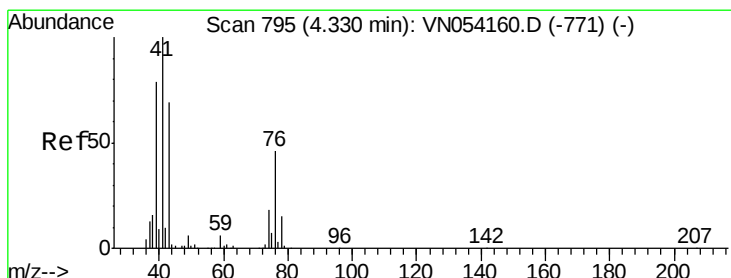
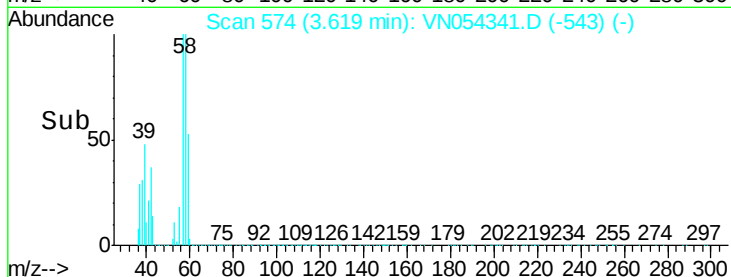
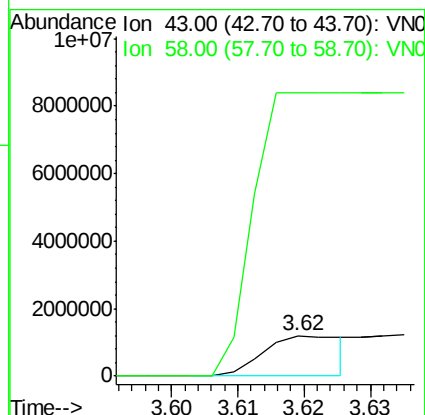
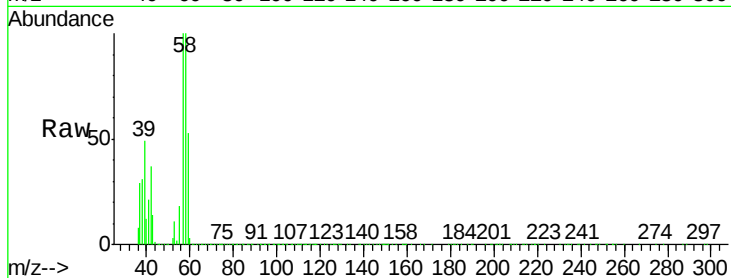
T11-MW-9-9.0-031419

Tot Ion: 43 Resp: 993355

Ion Ratio Lower Upper

43 100

58 697.7 29.9 44.9#



#18

Methyl Acetate

Concen: 82.668 ug/l

RT: 4.09 min Scan# 722

Delta R.T. -0.23 min

Lab File: VN054341.D

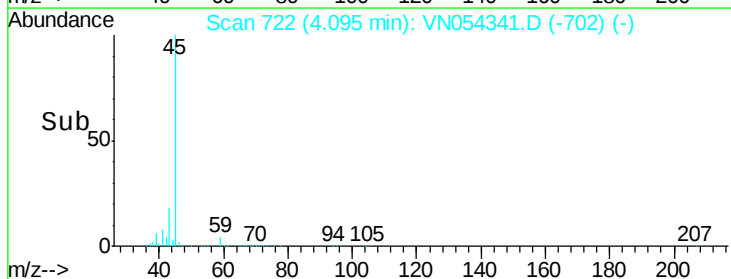
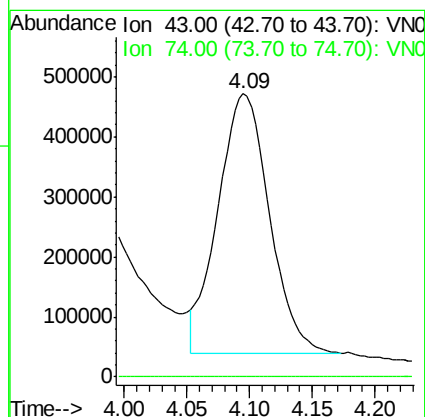
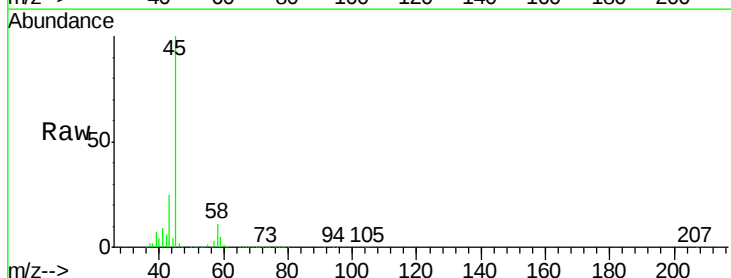
Acq: 16 Mar 2019 17:13

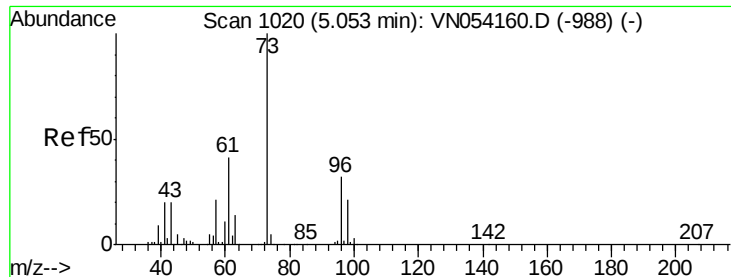
Tgt Ion: 43 Resp: 1235254

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#



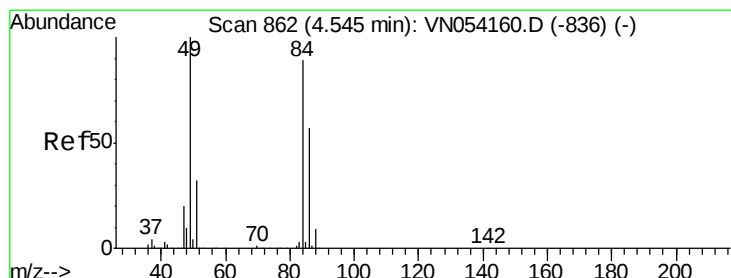
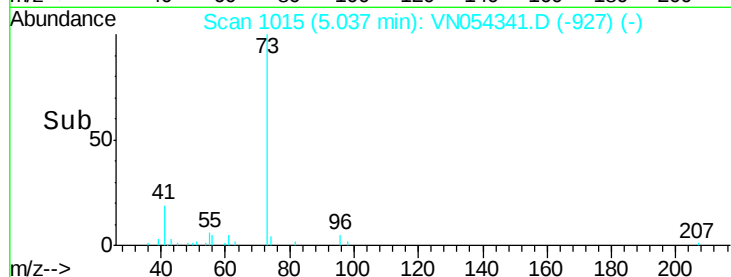
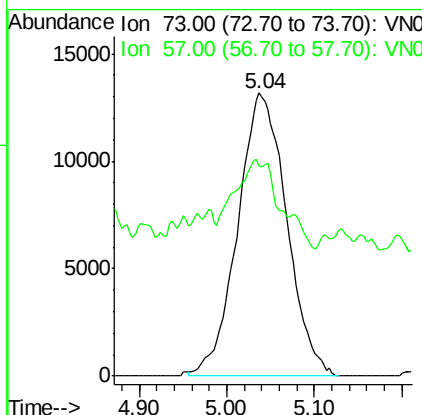
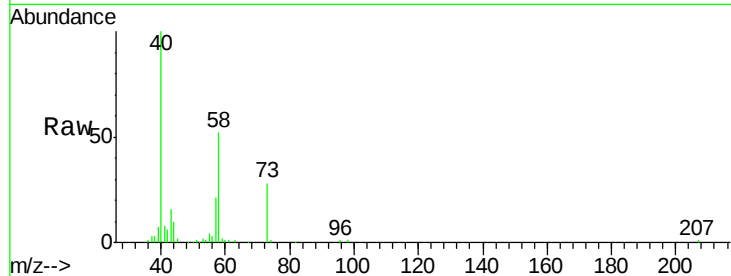


#19

Methyl tert-butyl Ether
 Concen: 0.817 ug/l
 RT: 5.04 min Scan# 1015
 Delta R.T. -0.02 min
 Lab File: VN054341.D
 Acq: 16 Mar 2019 17:13

Instrument :
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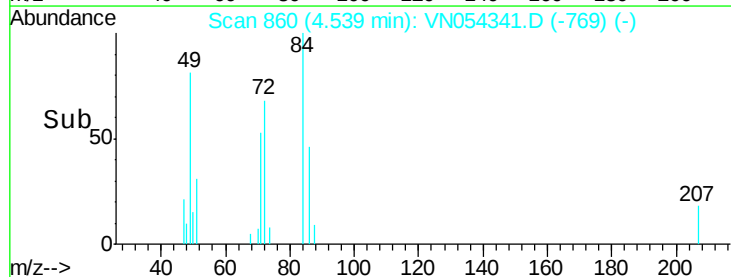
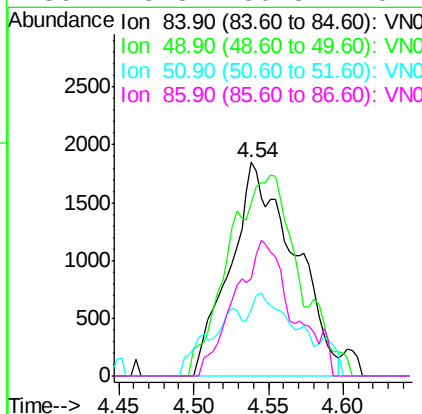
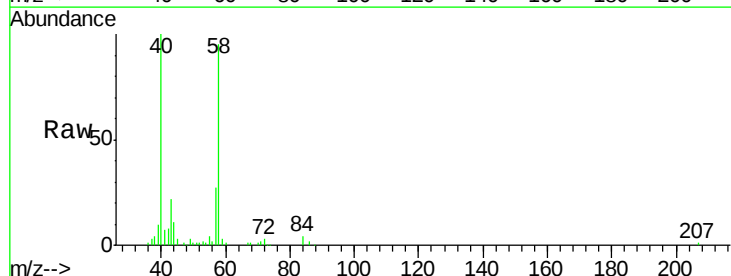
Tot Ion: 73 Resp: 51093
 Ion Ratio Lower Upper
 73 100
 57 23.1 16.8 25.2

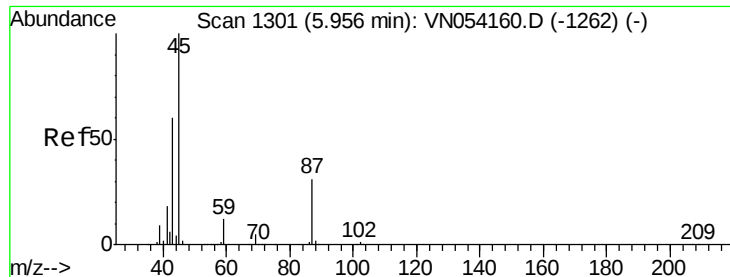


#20

Methylene Chloride
 Concen: 0.227 ug/l
 RT: 4.54 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: VN054341.D
 Acq: 16 Mar 2019 17:13

Tgt Ion: 84 Resp: 5494
 Ion Ratio Lower Upper
 84 100
 49 81.2 89.7 134.5#
 51 21.6 28.2 42.4#
 86 45.8 50.8 76.2#





#22

Diisopropyl ether

Concen: 70.768 ug/l

RT: 6.17 min Scan# 1366

Delta R.T. 0.21 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

Tot Ion: 45 Resp: 4572679

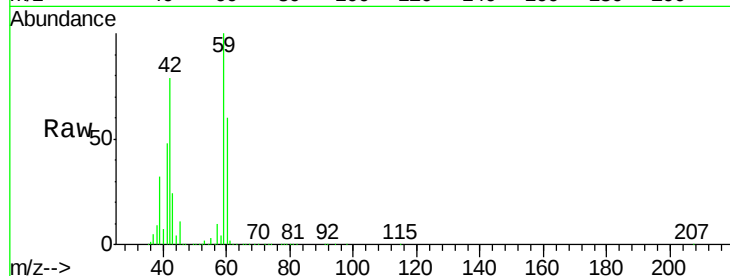
Ion Ratio Lower Upper

45 100

43 225.0 48.2 72.2#

87 0.0 24.9 37.3#

59 937.8 9.5 14.3#



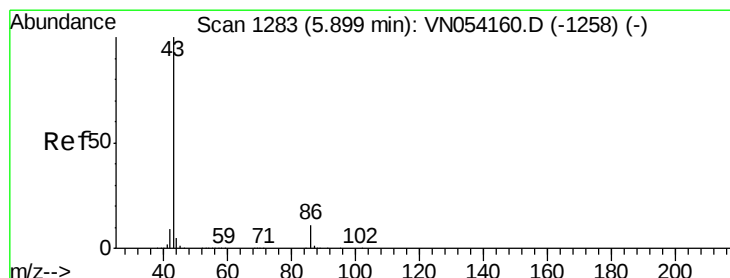
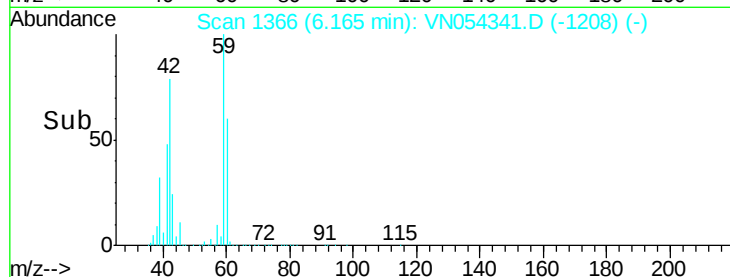
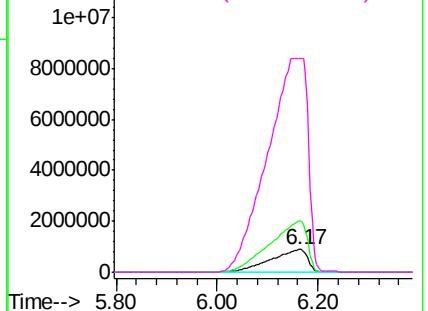
Abundance

Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO



#23

Vinyl Acetate

Concen: 213.523 ug/l

RT: 6.17 min Scan# 1366

Delta R.T. 0.27 min

Lab File: VN054341.D

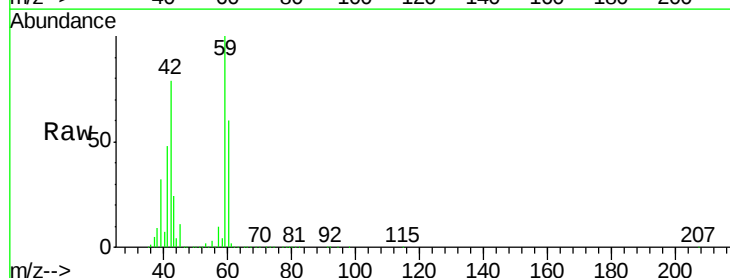
Acq: 16 Mar 2019 17:13

Tgt Ion: 43 Resp: 10172505

Ion Ratio Lower Upper

43 100

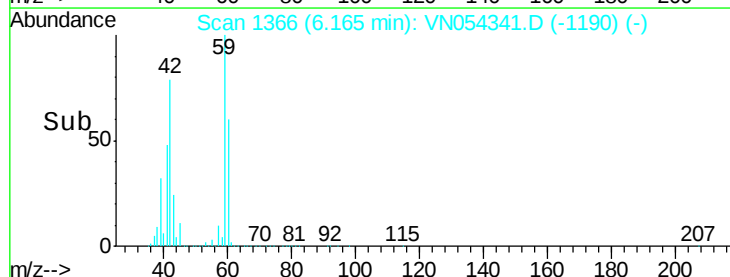
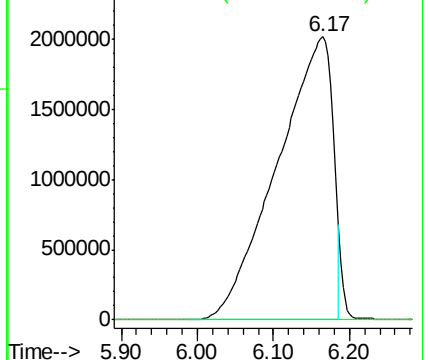
86 0.0 9.1 13.7#

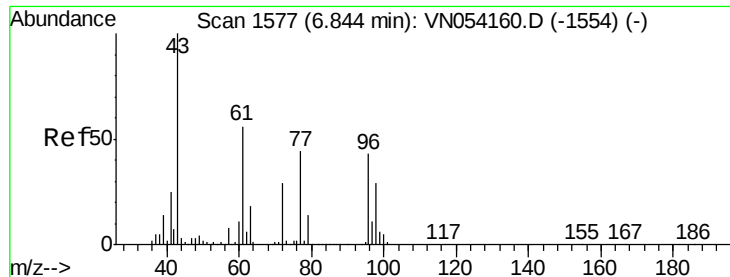


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO





#25

2-Butanone

Concen: 7.912 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

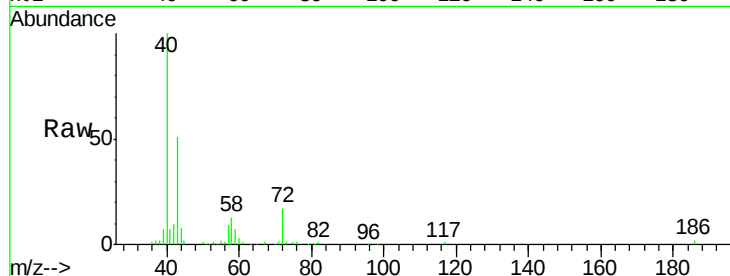
T11-MW-9-9.0-031419

Tot Ion: 43 Resp: 68581

Ion Ratio Lower Upper

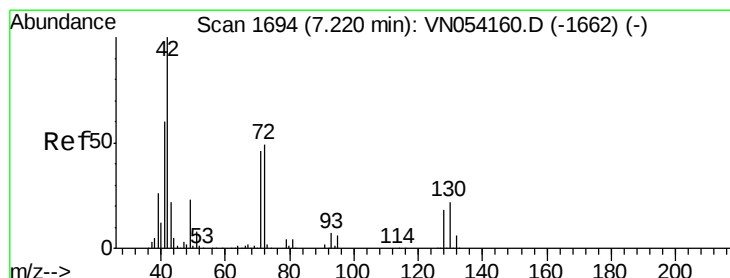
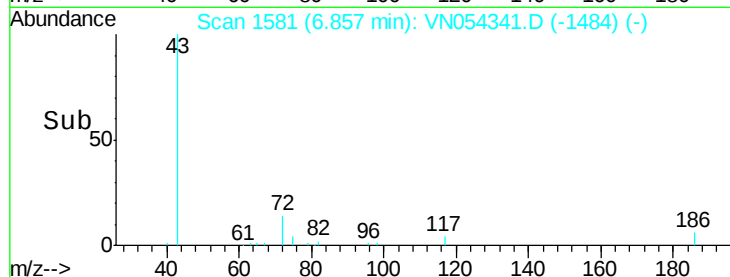
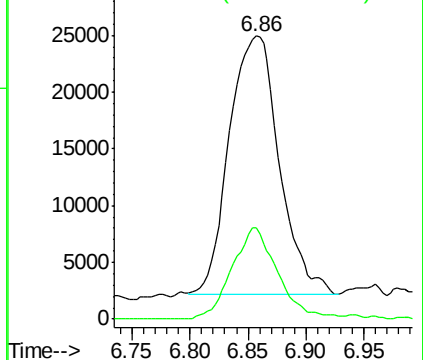
43 100

72 35.4 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO



#29

Tetrahydrofuran

Concen: 8.895 ug/l

RT: 7.24 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

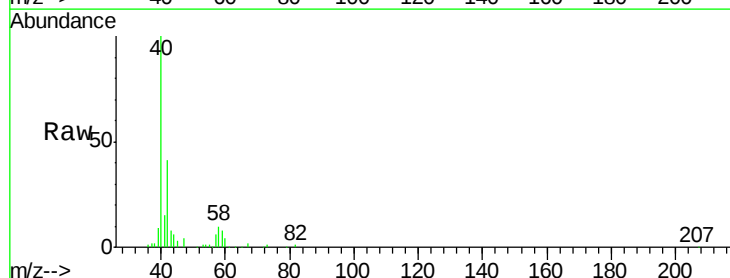
Tgt Ion: 42 Resp: 49574

Ion Ratio Lower Upper

42 100

72 0.8 37.8 56.6#

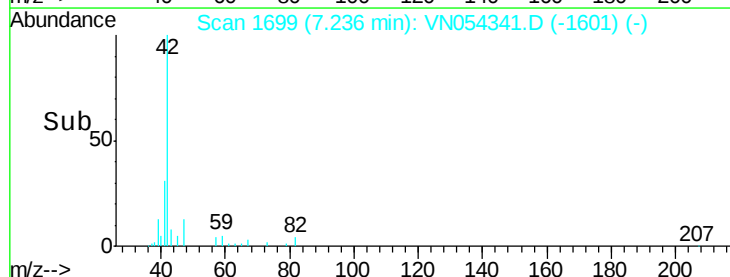
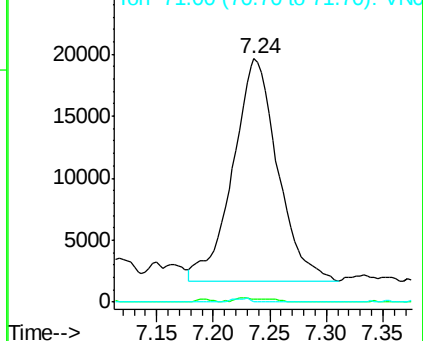
71 0.6 36.2 54.2#

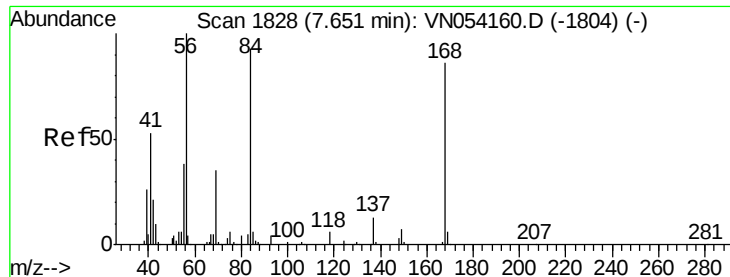


Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO





#31

Cyclohexane

Concen: 0.623 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

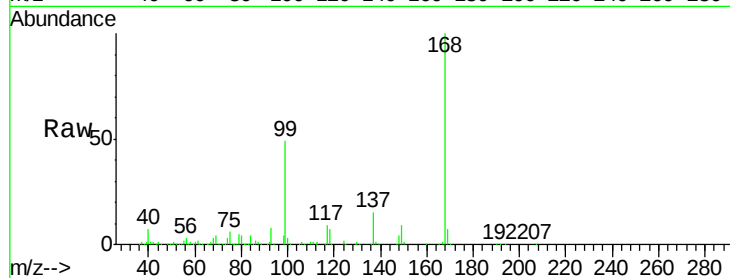
Tot Ion: 56 Resp: 71193

Ion Ratio Lower Upper

56 100

69 111.8 27.8 41.6#

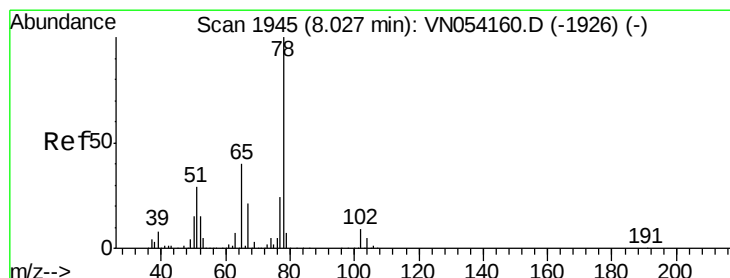
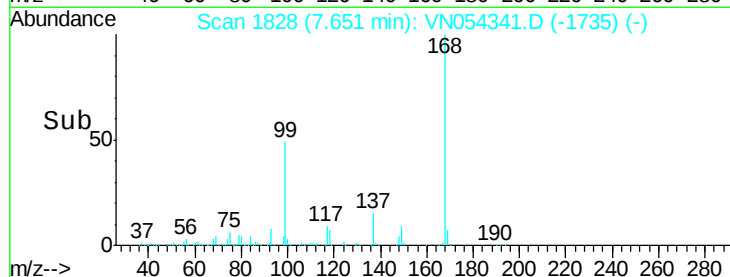
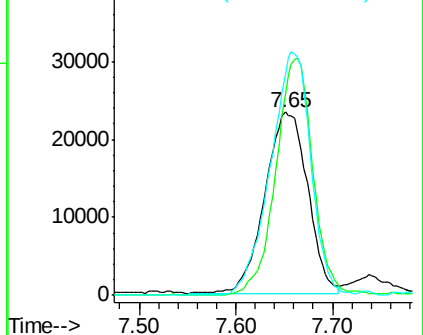
84 122.5 74.6 111.8#



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: 43.059 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054341.D

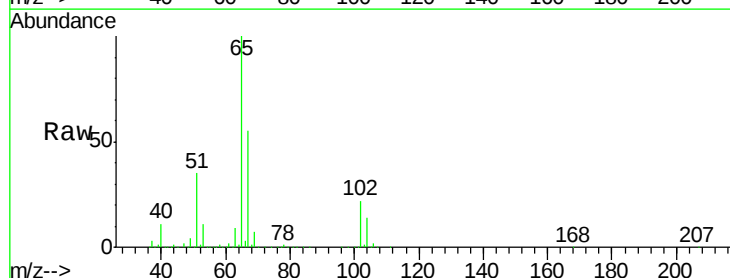
Acq: 16 Mar 2019 17:13

Tgt Ion: 65 Resp: 1110698

Ion Ratio Lower Upper

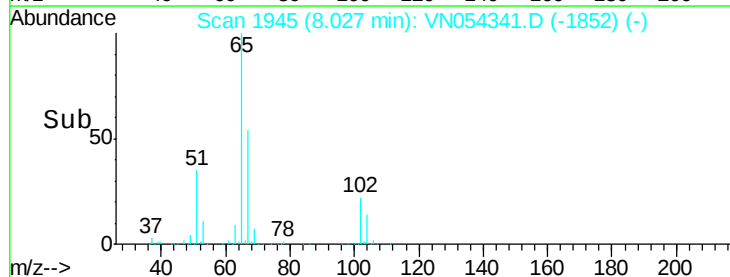
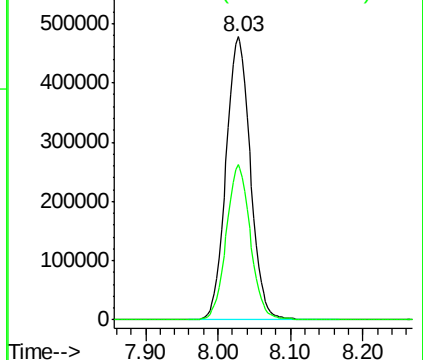
65 100

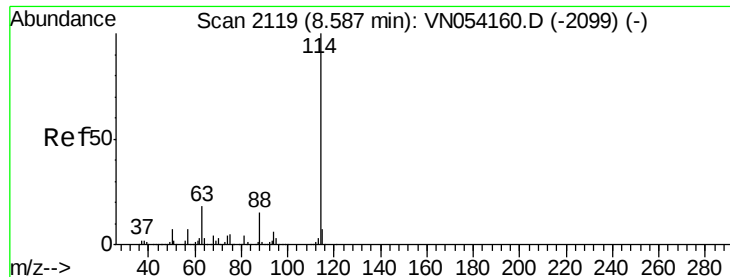
67 53.9 0.0 104.6



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: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

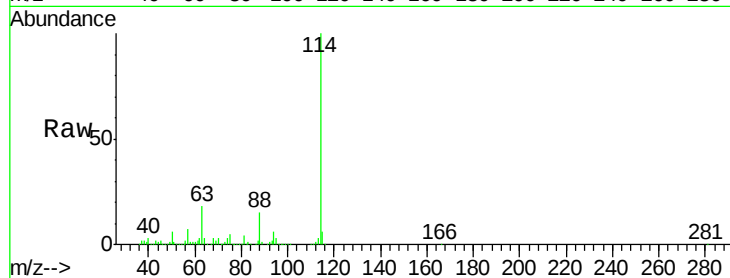
Tot Ion:114 Resp: 3520365

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.2

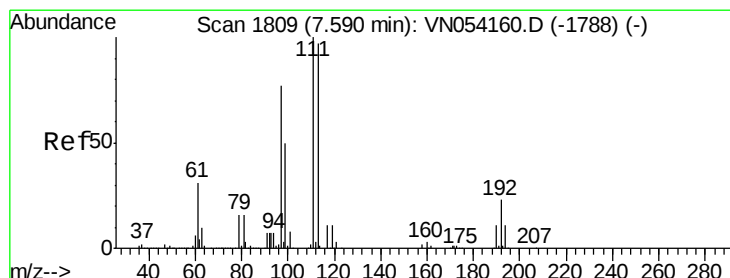
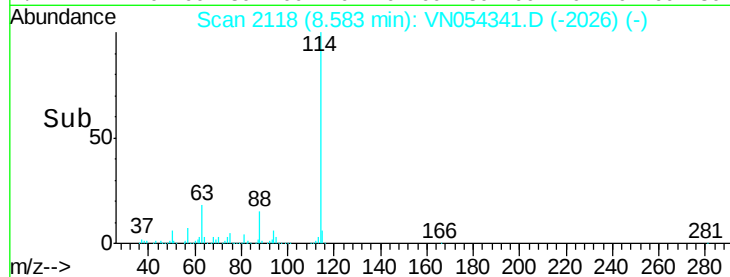
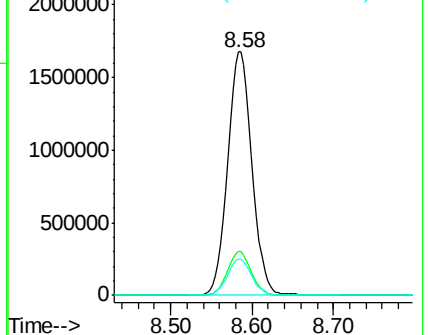
88 15.2 0.0 30.2



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: 42.996 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

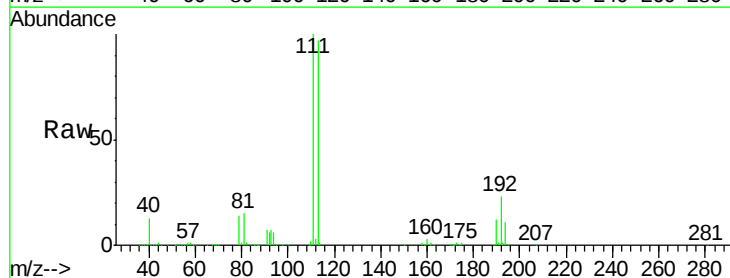
Tgt Ion:113 Resp: 976209

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

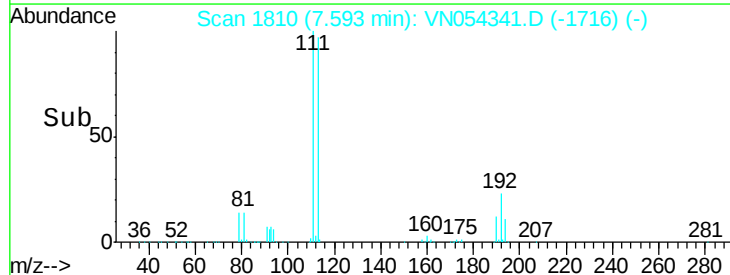
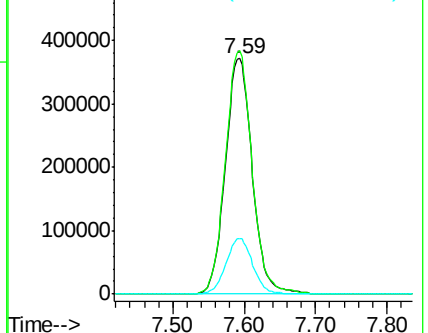
192 23.6 19.2 28.8

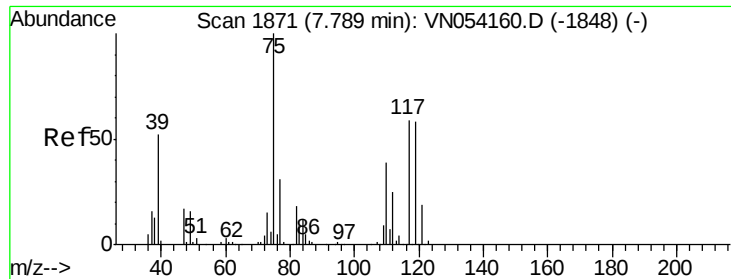


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.474 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

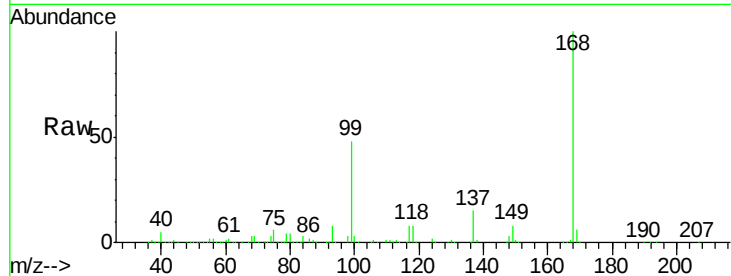
Tot Ion: 75 Resp: 145055

Ion Ratio Lower Upper

75 100

110 9.6 19.1 57.5#

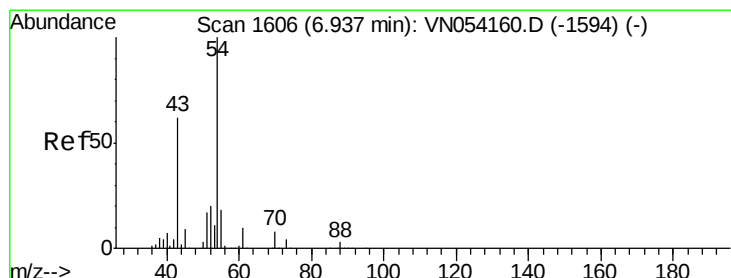
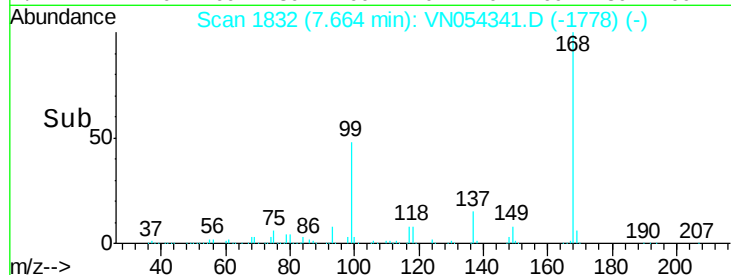
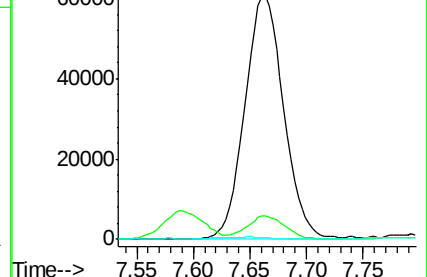
77 0.8 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 3.682 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. -0.08 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

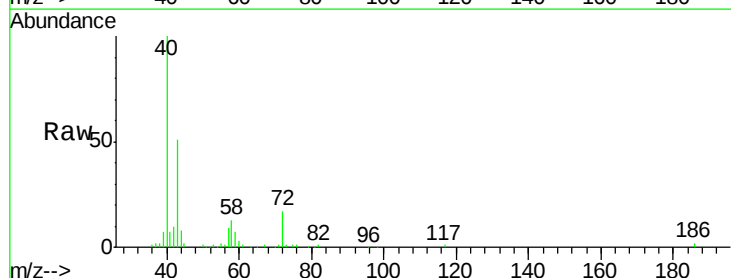
Tgt Ion: 43 Resp: 68581

Ion Ratio Lower Upper

43 100

61 0.4 11.8 17.6#

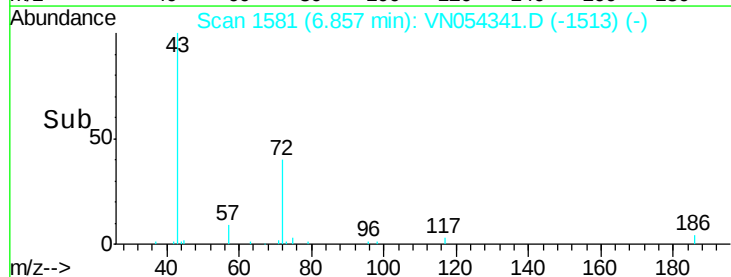
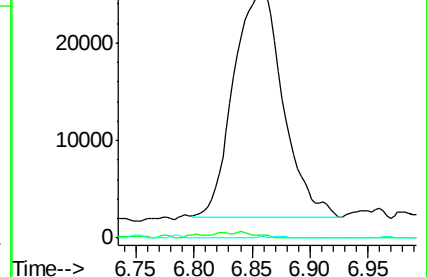
70 0.1 8.4 12.6#

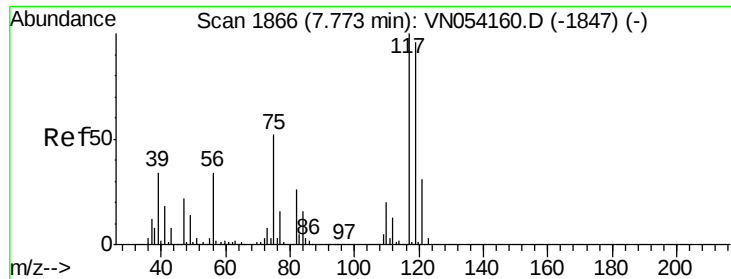


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.036 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

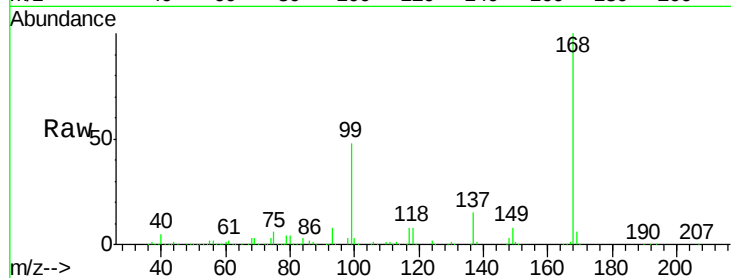
Tot Ion:117 Resp: 205203

Ion Ratio Lower Upper

117 100

119 4.6 76.3 114.5#

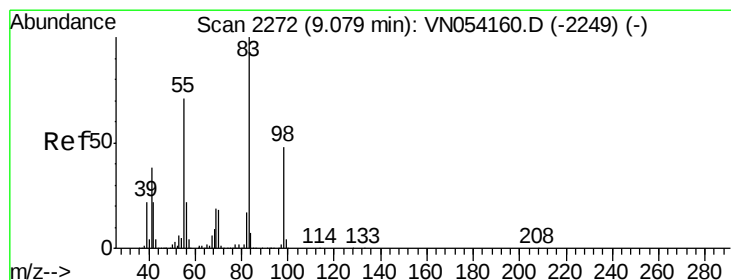
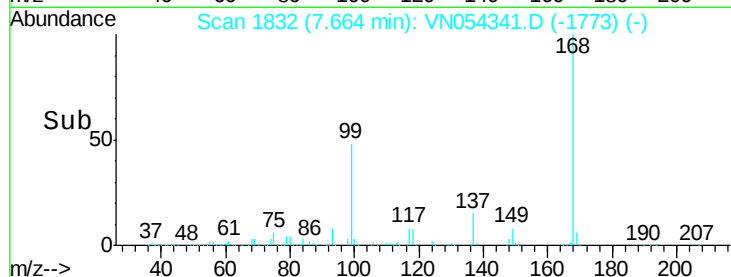
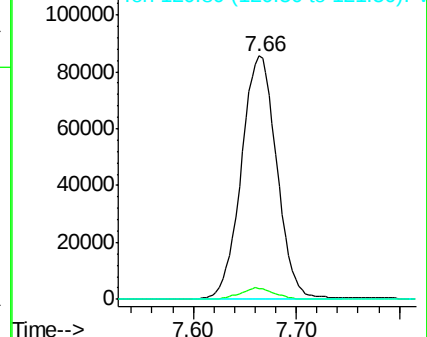
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 3.497 ug/l

RT: 9.08 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

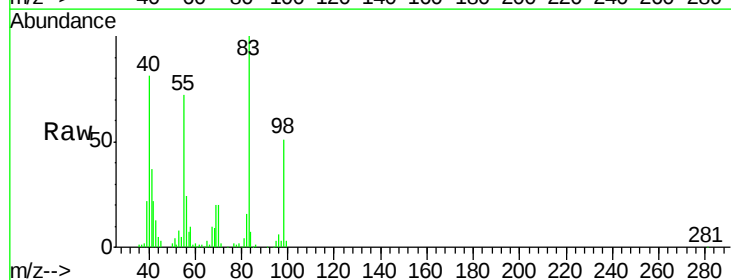
Tgt Ion: 83 Resp: 139497

Ion Ratio Lower Upper

83 100

55 70.8 56.6 84.8

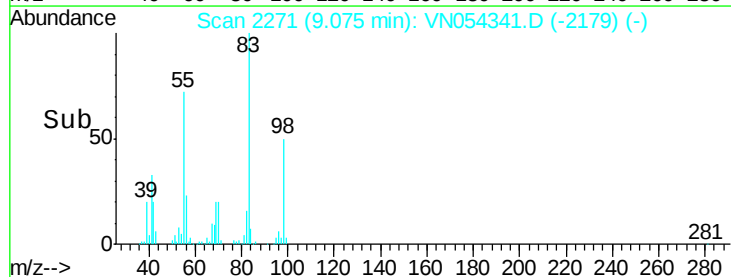
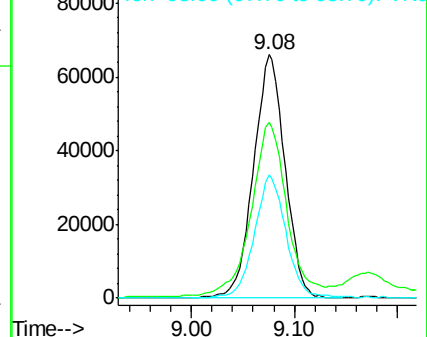
98 50.8 38.4 57.6

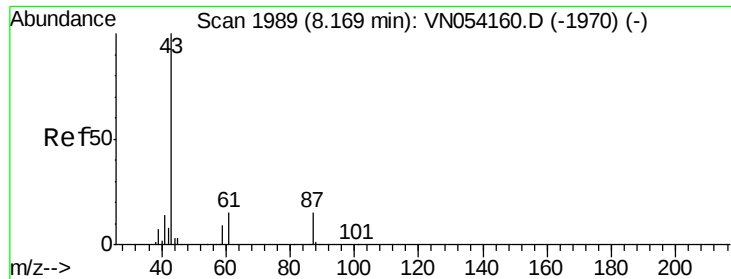


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#43

Isopropyl Acetate

Concen: 1.950 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.12 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

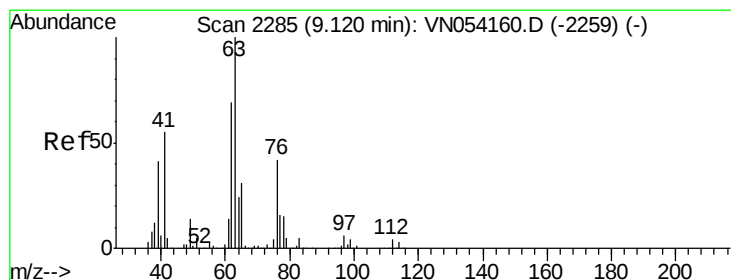
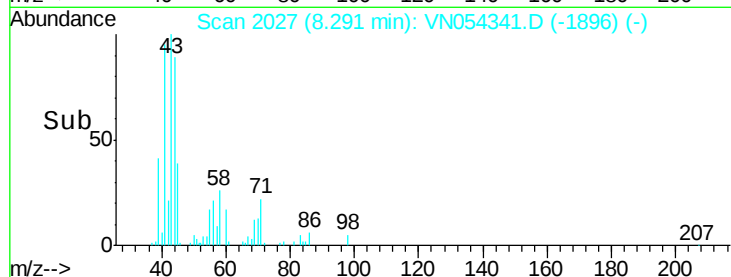
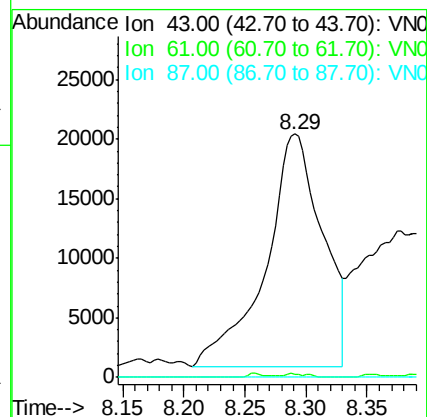
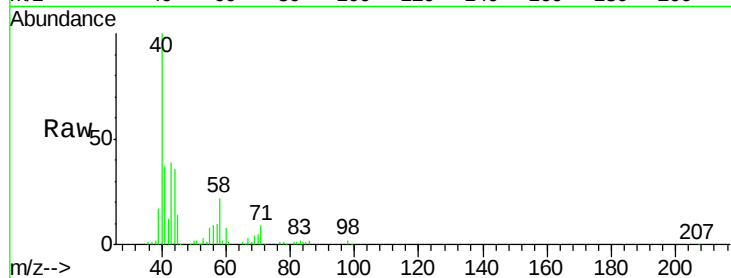
Tot Ion: 43 Resp: 63764

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#45

1,2-Dichloropropane

Concen: 1.286 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054341.D

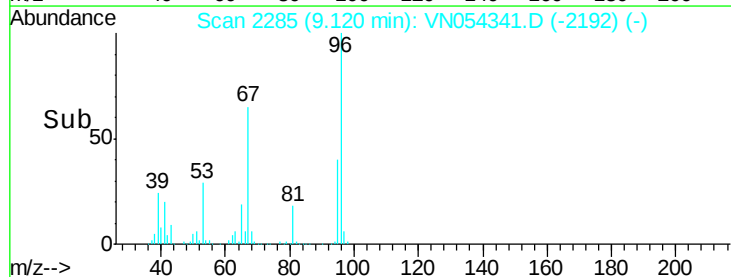
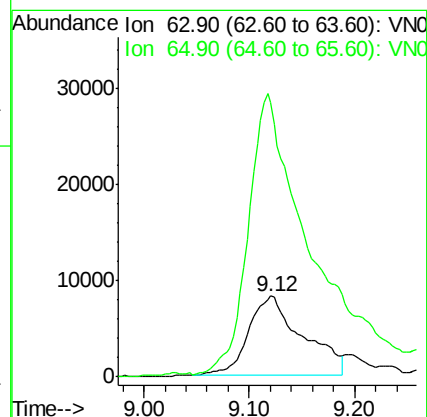
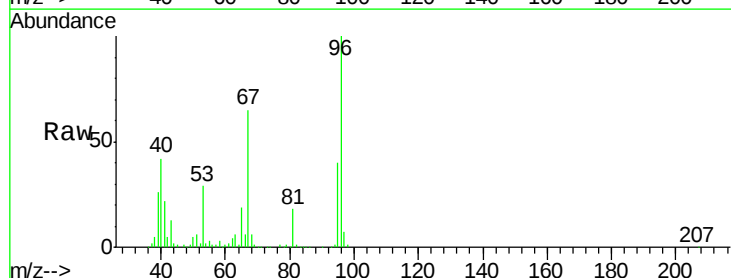
Acq: 16 Mar 2019 17:13

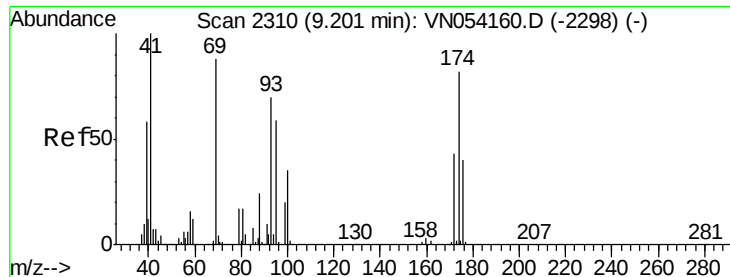
Tgt Ion: 63 Resp: 29625

Ion Ratio Lower Upper

63 100

65 343.9 25.0 37.6#

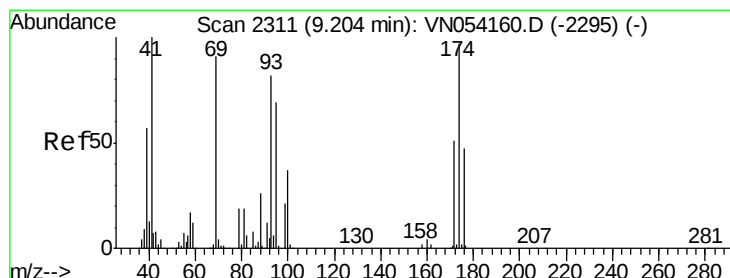
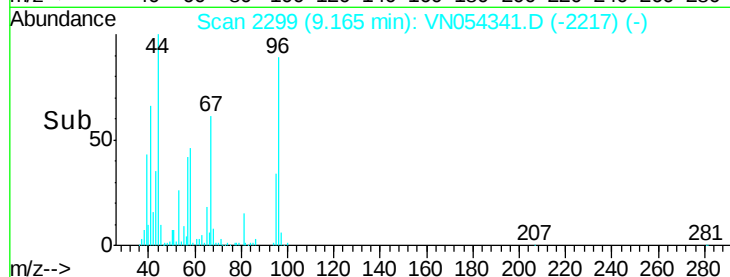
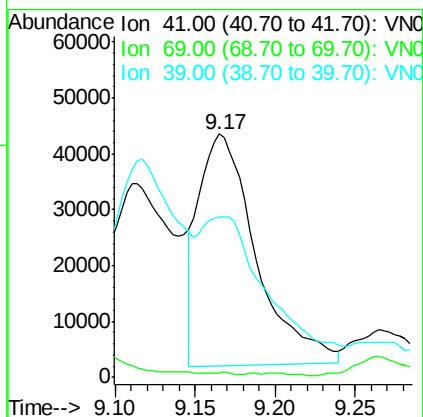
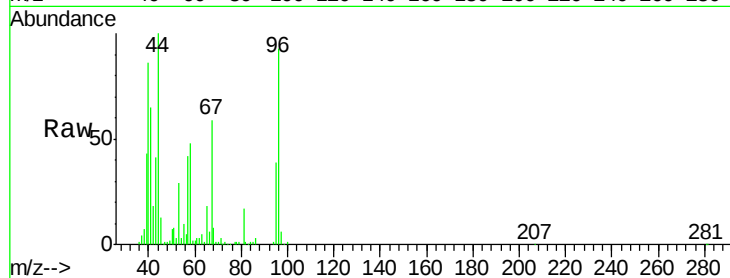




#48
Methvl methacrylate
Concen: 6.186 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.04 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

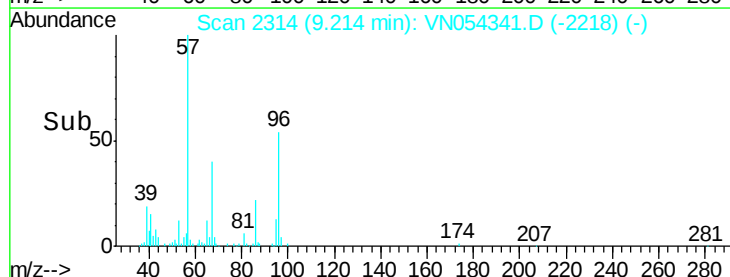
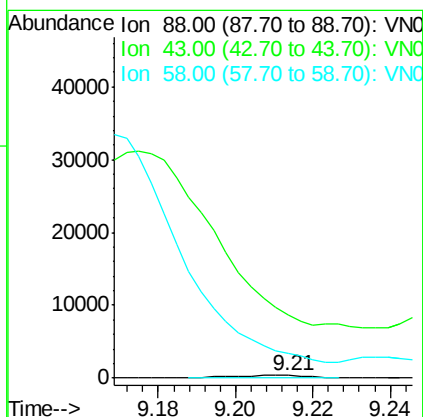
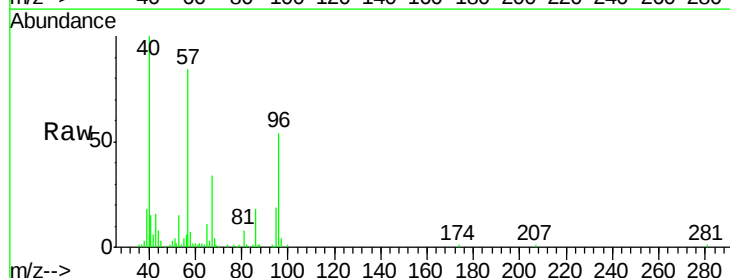
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-9-9.0-031419

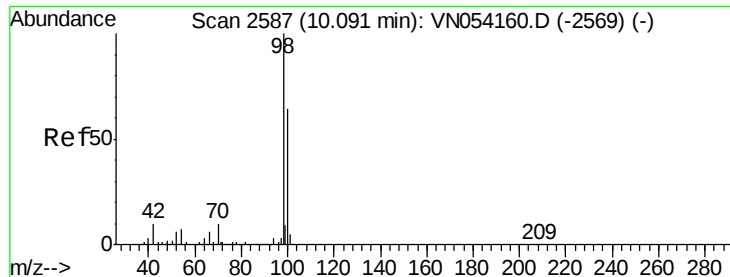
Tot Ion: 41 Resp: 102650
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 2.109 ug/l
RT: 9.21 min Scan# 2314
Delta R.T. 0.01 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

Tgt Ion: 88 Resp: 495
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 0.0 50.8 76.2#





#50

Toluene-d8

Concen: 48.182 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

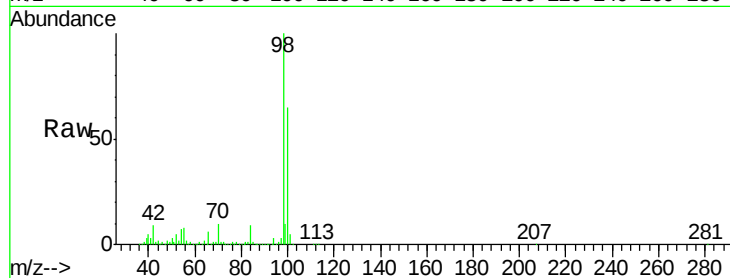
T11-MW-9-9.0-031419

Tot Ion: 98 Resp: 4040180

Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054341.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN054341.D (-2494) (-)

2500000

2000000

1500000

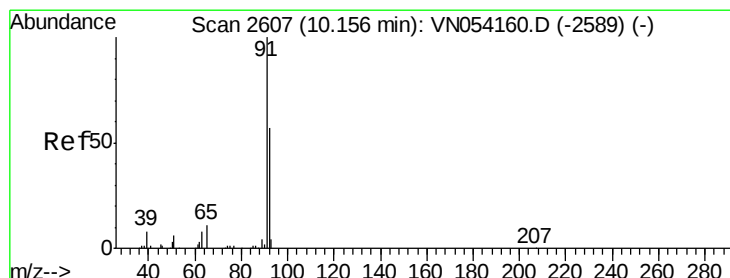
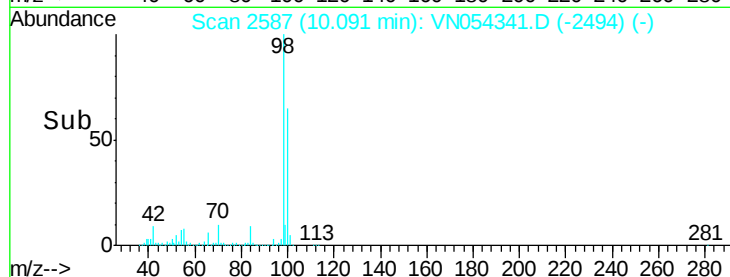
1000000

500000

0

10.00 10.10 10.20

Time-->



#52

Toluene

Concen: 0.949 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054341.D

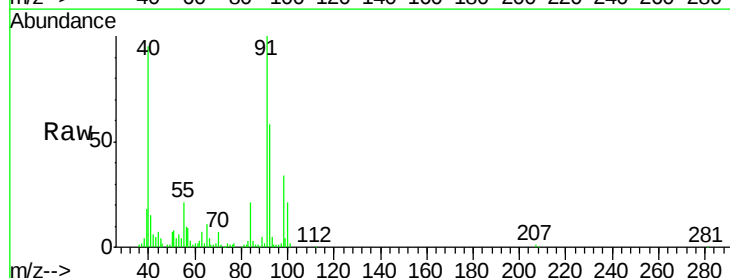
Acq: 16 Mar 2019 17:13

Tgt Ion: 92 Resp: 55815

Ion Ratio Lower Upper

92 100

91 171.0 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN054341.D (-2514) (-)

Ion 91.00 (90.70 to 91.70): VN054341.D (-2514) (-)

60000

50000

40000

30000

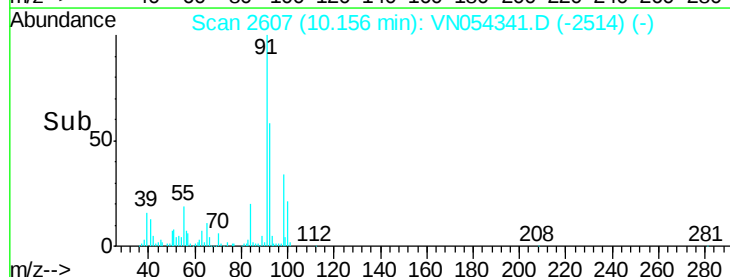
20000

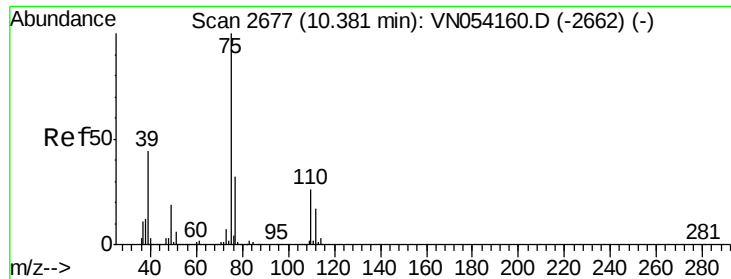
10000

0

10.10 10.20

Time-->

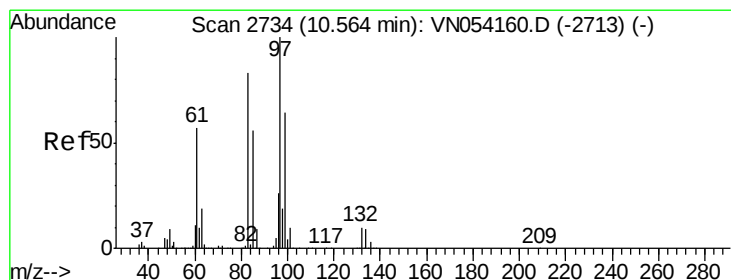
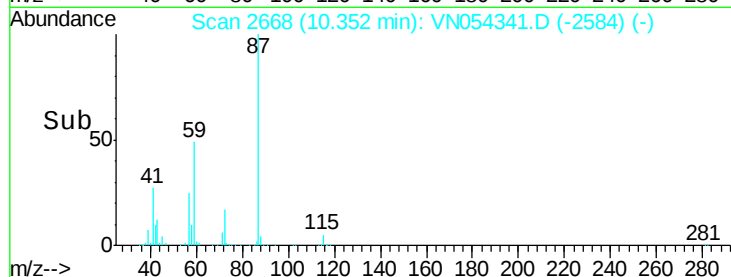
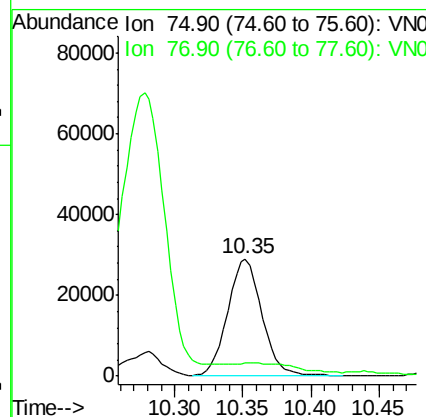
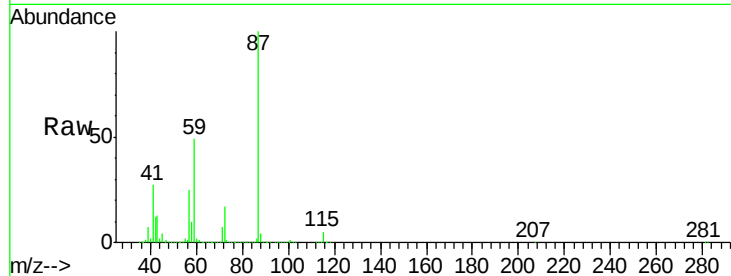




#53
t-1,3-Dichloropropene
Concen: 3.356 ug/l
RT: 10.35 min Scan# 2668
Delta R.T. -0.03 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

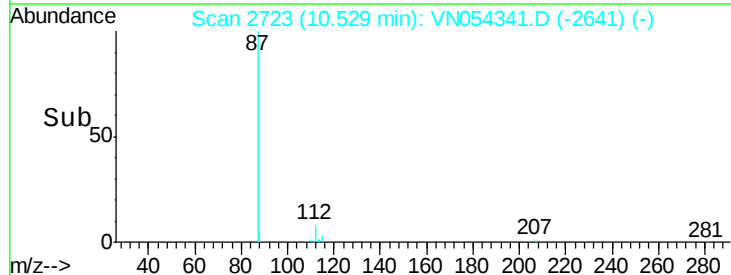
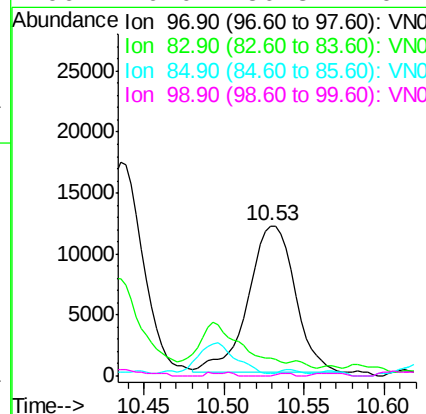
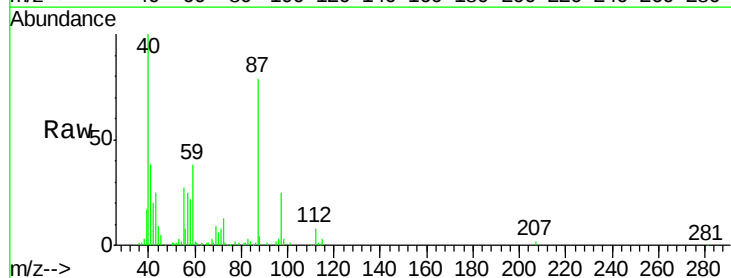
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-9-9.0-031419

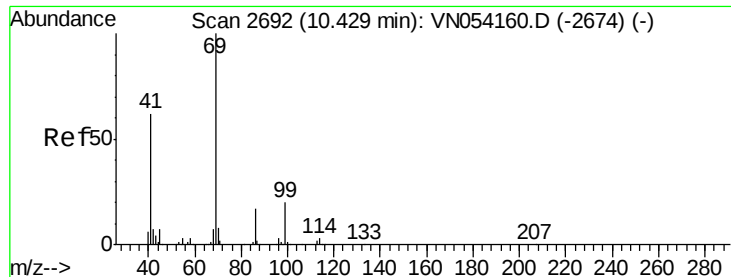
Tot Ion: 75 Resp: 50908
Ion Ratio Lower Upper
75 100
77 7.7 25.8 38.8#



#55
1,1,2-Trichloroethane
Concen: 1.134 ug/l
RT: 10.53 min Scan# 2723
Delta R.T. -0.04 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

Tgt Ion: 97 Resp: 24348
Ion Ratio Lower Upper
97 100
83 7.0 66.6 100.0#
85 0.0 44.4 66.6#
99 0.0 50.8 76.2#





#56

Ethyl methacrylate

Concen: 94.180 ug/l

RT: 10.28 min Scan# 2645

Delta R.T. -0.15 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

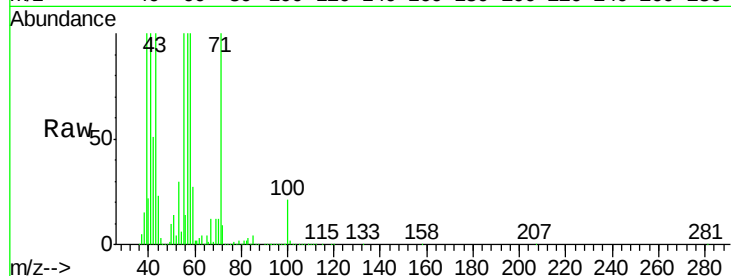
Tot Ion: 69 Resp: 2412004

Ion Ratio Lower Upper

69 100

41 0.0 49.4 74.2#

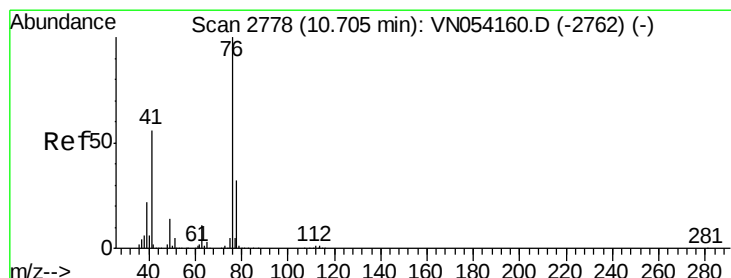
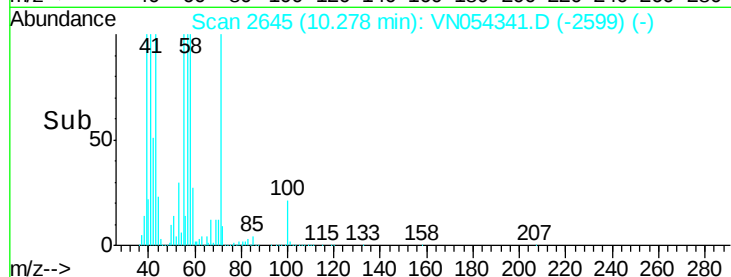
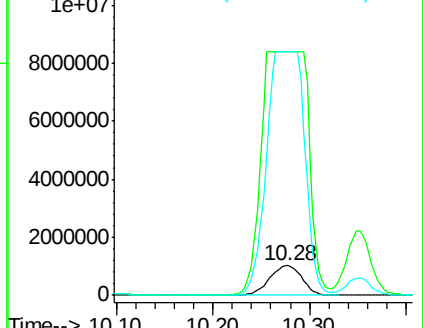
39 0.0 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.853 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054341.D

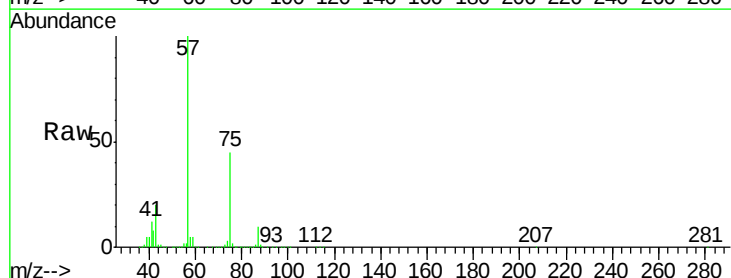
Acq: 16 Mar 2019 17:13

Tgt Ion: 76 Resp: 29953

Ion Ratio Lower Upper

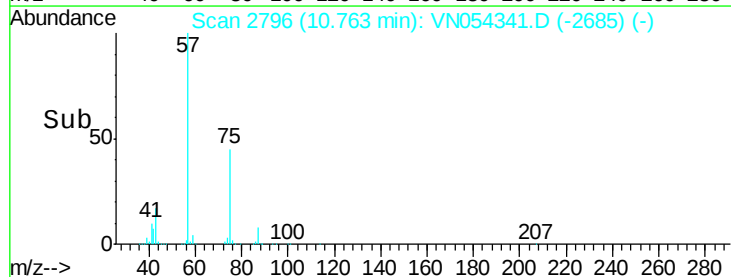
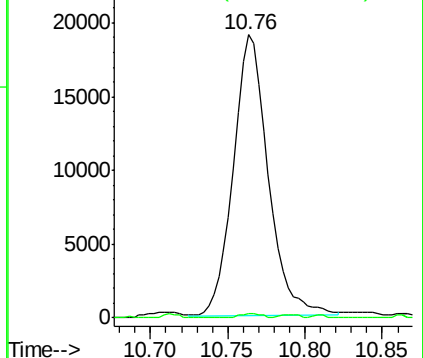
76 100

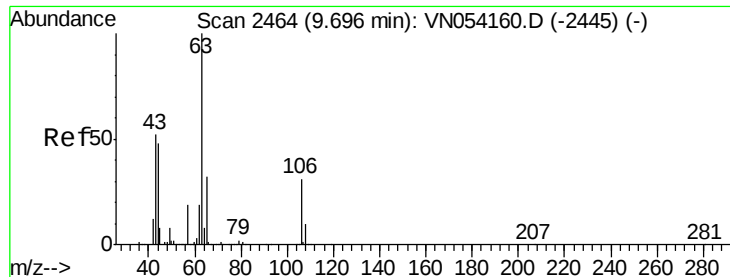
78 0.8 25.7 38.5#



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: 16.895 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

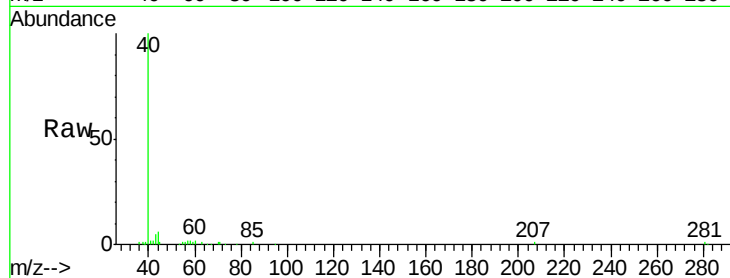
T11-MW-9-9.0-031419

Tot Ion: 63 Resp: 803

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

500

400

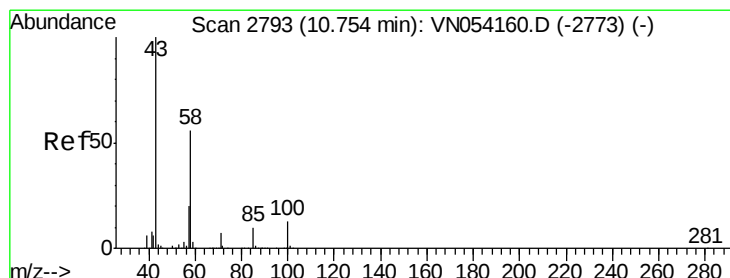
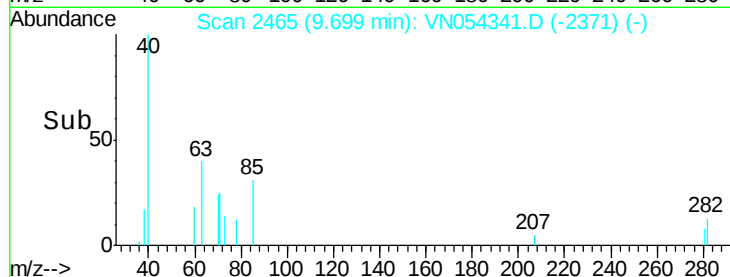
300

200

100

0

Time-->



#59

2-Hexanone

Concen: 19.747 ug/l

RT: 10.50 min Scan# 2713

Delta R.T. -0.26 min

Lab File: VN054341.D

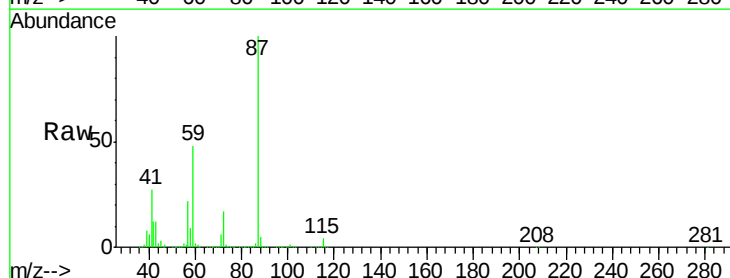
Acq: 16 Mar 2019 17:13

Tgt Ion: 43 Resp: 227364

Ion Ratio Lower Upper

43 100

58 68.6 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.50

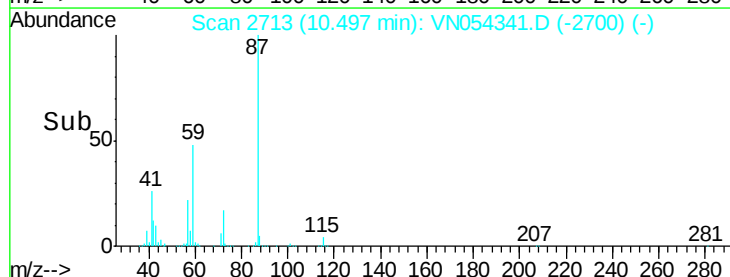
150000

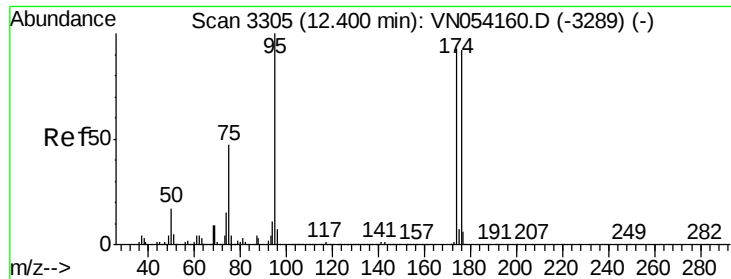
100000

50000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 43.769 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

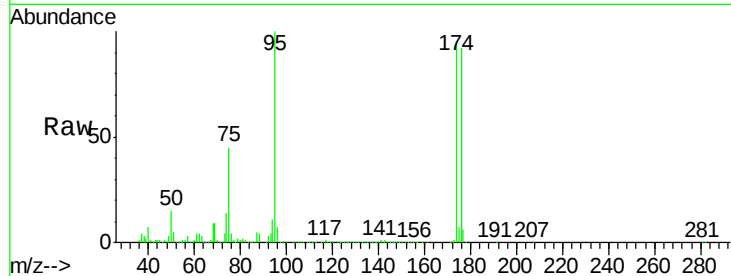
Tot Ion: 95 Resp: 1284198

Ion Ratio Lower Upper

95 100

174 94.1 0.0 191.0

176 91.8 0.0 187.4

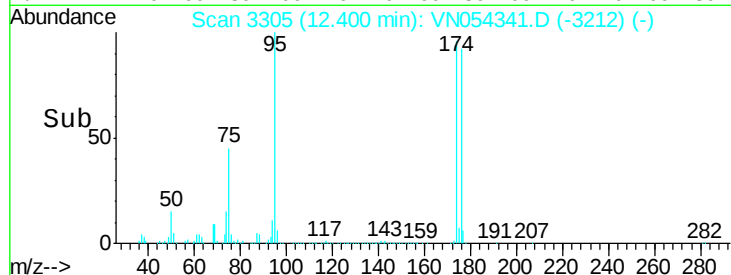


Abundance Ion 94.90 (94.60 to 95.60): VN054341.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054341.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054341.D (-3212) (-)

Time-->



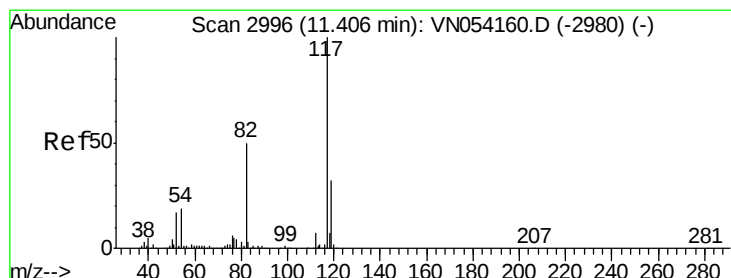
Abundance

Ion 94.90 (94.60 to 95.60): VN054341.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054341.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054341.D (-3212) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

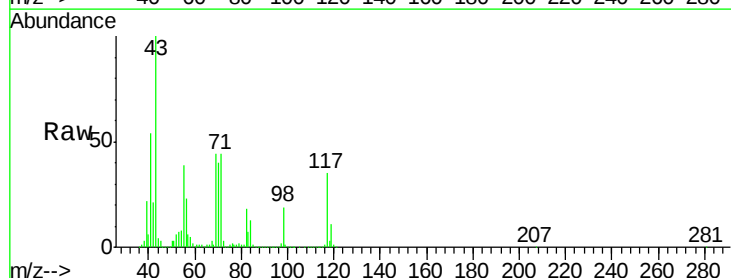
Tgt Ion: 117 Resp: 2963636

Ion Ratio Lower Upper

117 100

82 50.6 40.0 60.0

119 32.0 25.8 38.6

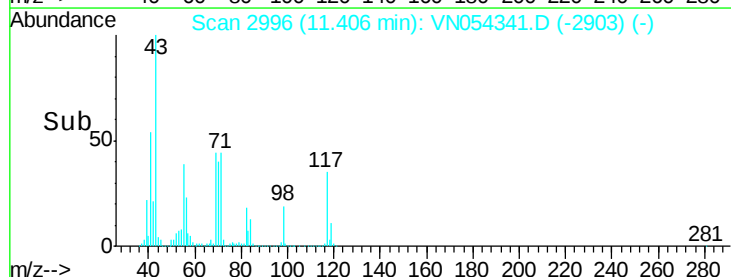


Abundance Ion 116.90 (116.60 to 117.60): VN054341.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054341.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054341.D (-2903) (-)

Time-->



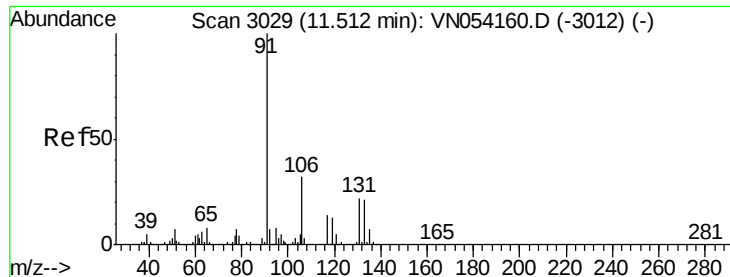
Abundance

Ion 116.90 (116.60 to 117.60): VN054341.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054341.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054341.D (-2903) (-)

Time-->



#67

Ethyl Benzene

Concen: 0.875 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

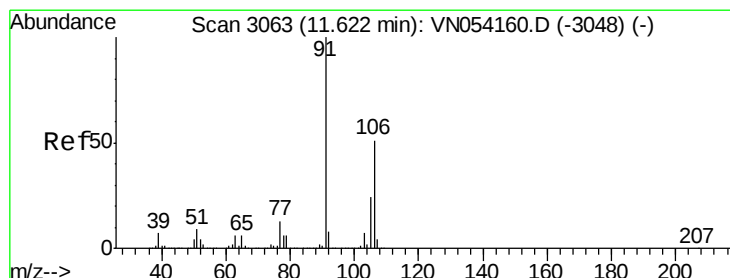
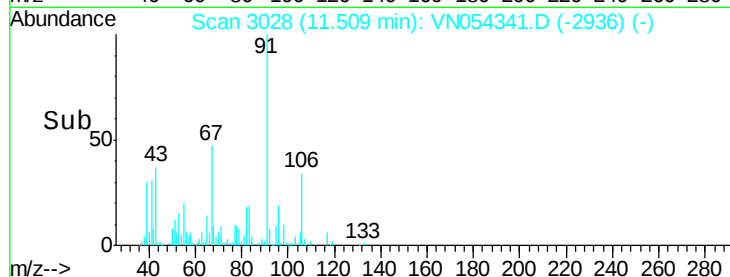
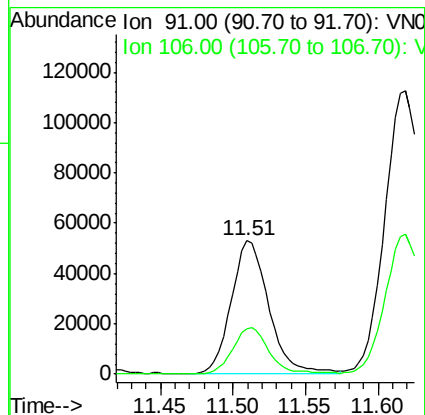
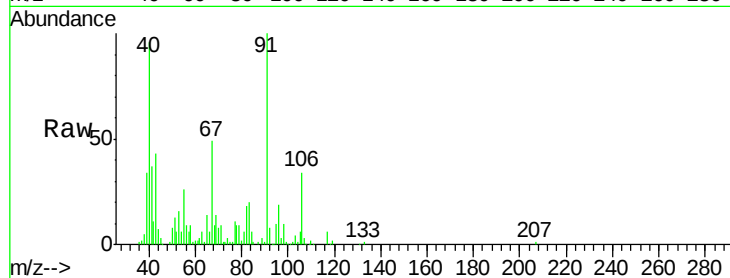
T11-MW-9-9.0-031419

Tot Ion: 91 Resp: 94357

Ion Ratio Lower Upper

91 100

106 33.8 25.5 38.3



#68

m/p-Xylenes

Concen: 2.541 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054341.D

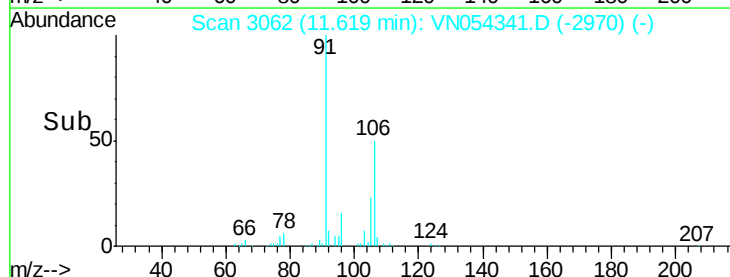
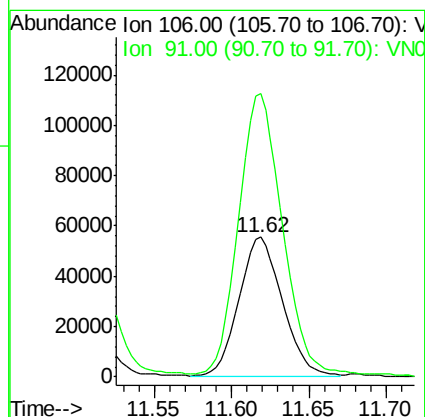
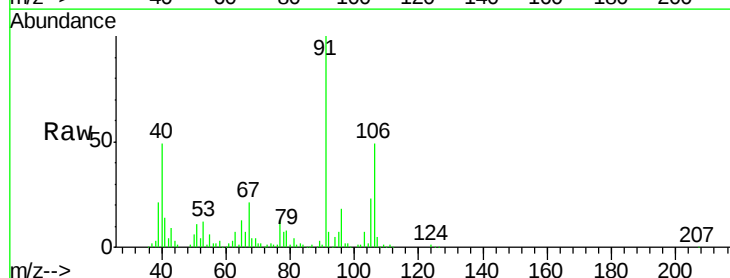
Acq: 16 Mar 2019 17:13

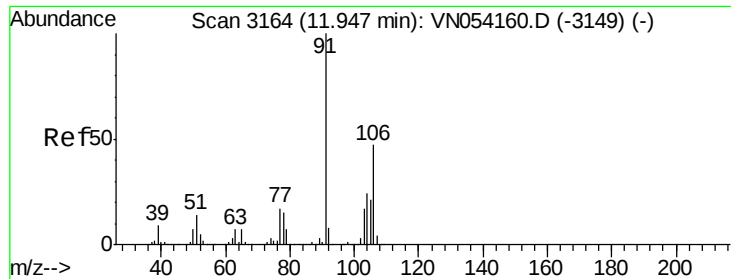
Tgt Ion: 106 Resp: 107123

Ion Ratio Lower Upper

106 100

91 211.4 159.4 239.2

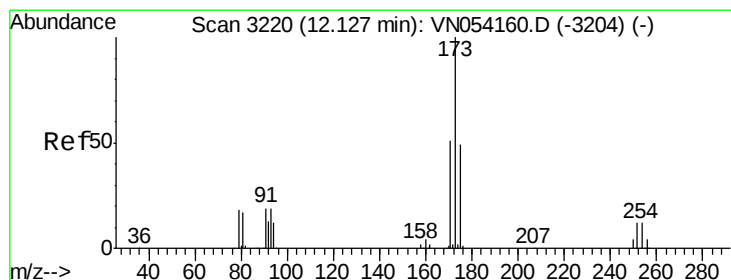
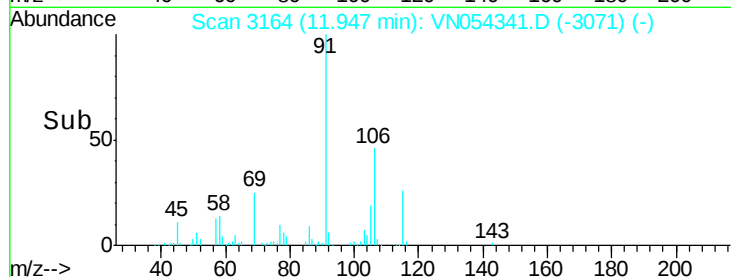
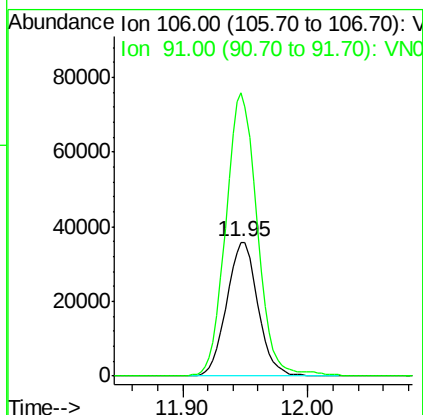
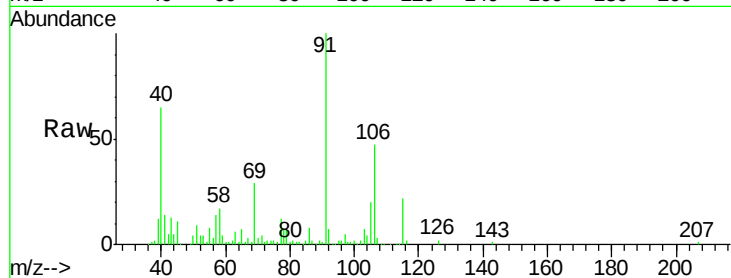




#69
o-Xylene
Concen: 1.514 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

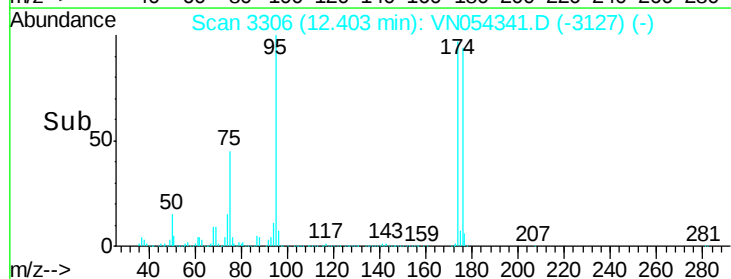
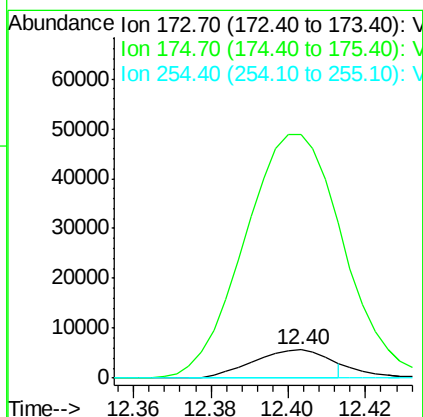
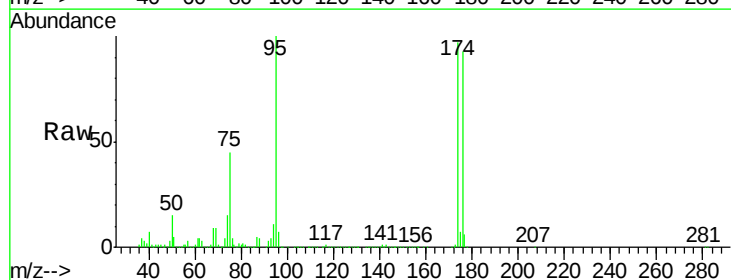
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-9-9.0-031419

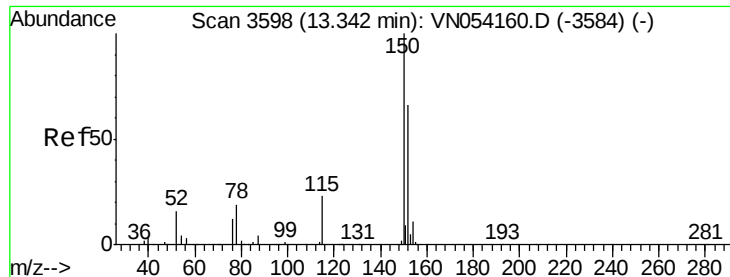
Tot Ion:106 Resp: 62227
Ion Ratio Lower Upper
106 100
91 212.4 105.7 317.1



#71
Bromoform
Concen: 2.758 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

Tgt Ion:173 Resp: 7694
Ion Ratio Lower Upper
173 100
175 980.2 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

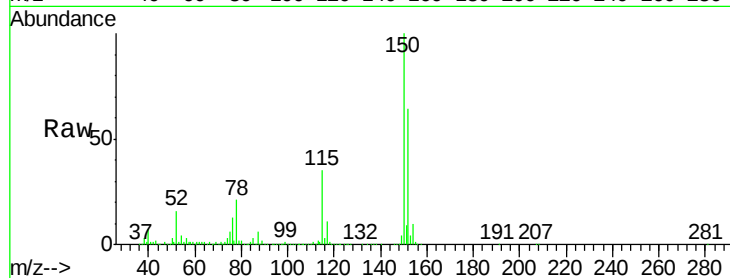
Tot Ion:152 Resp: 1316483

Ion Ratio Lower Upper

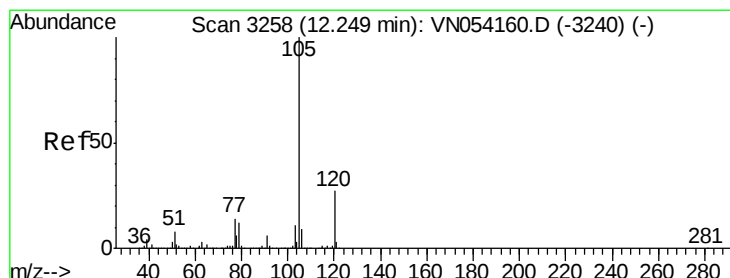
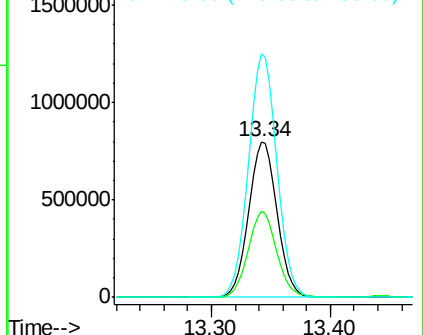
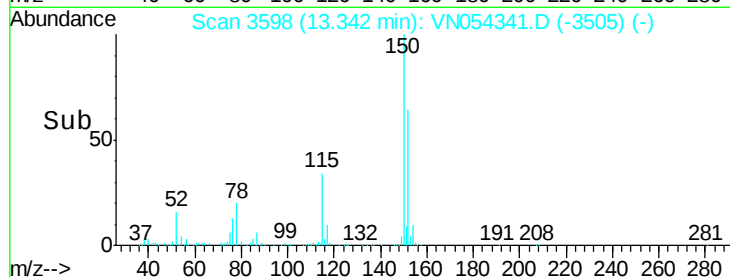
152 100

115 55.3 27.2 81.6

150 156.7 0.0 349.2



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: 3.000 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054341.D

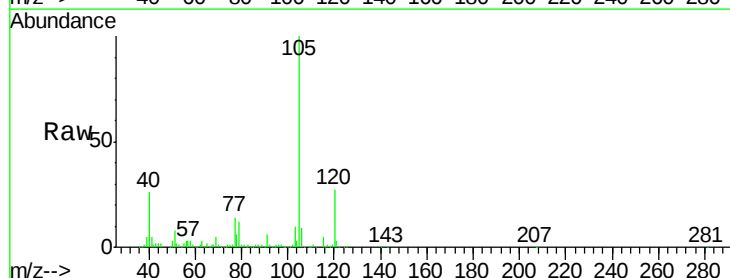
Acq: 16 Mar 2019 17:13

Tgt Ion:105 Resp: 315977

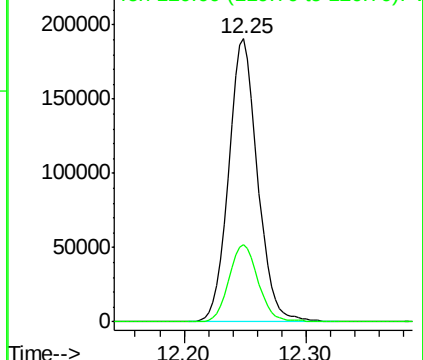
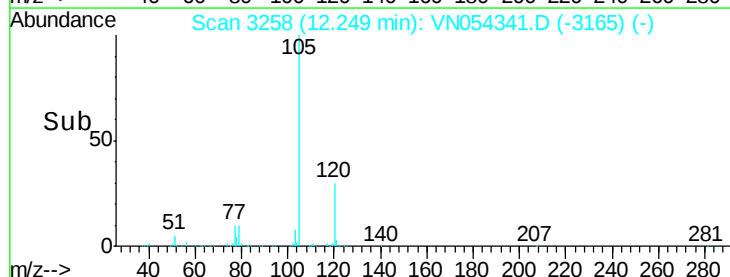
Ion Ratio Lower Upper

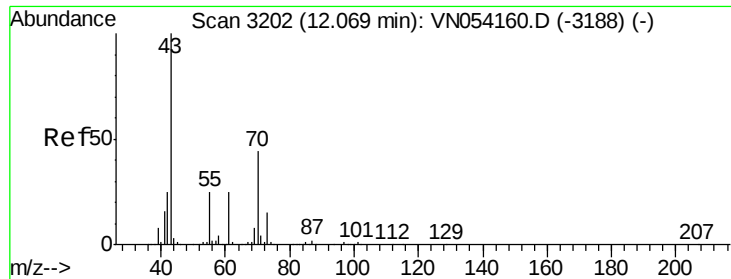
105 100

120 27.6 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

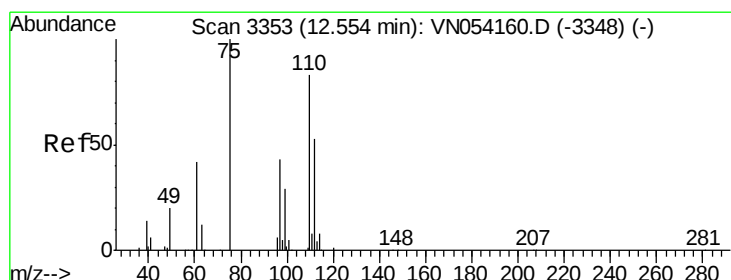
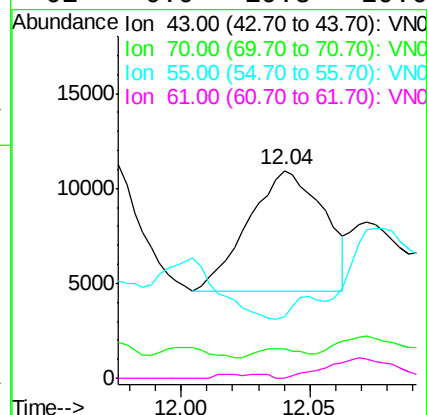
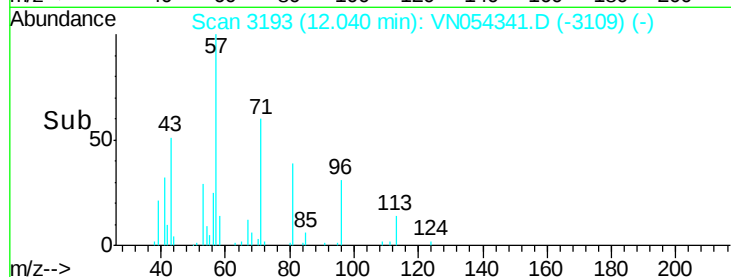
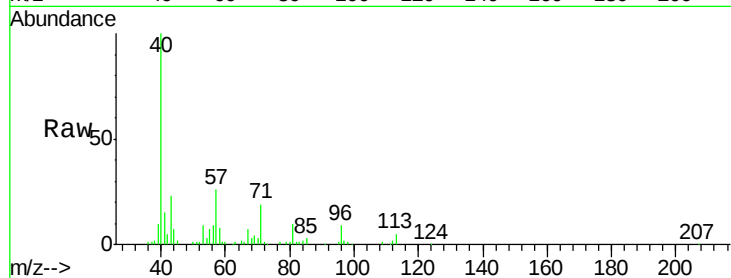




#74
N-amyl acetate
Concen: 0.552 ug/l
RT: 12.04 min Scan# 3193
Delta R.T. -0.03 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

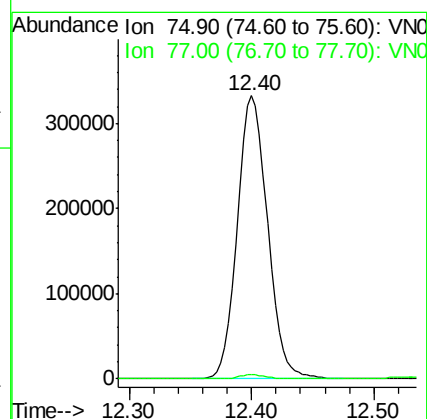
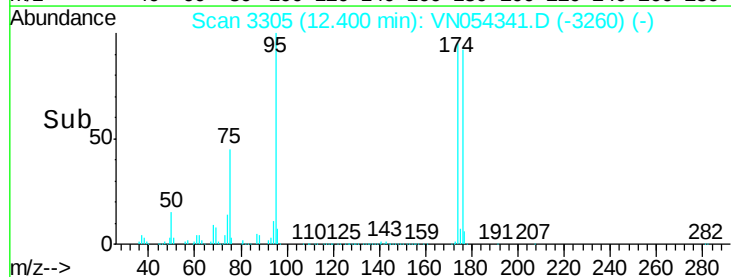
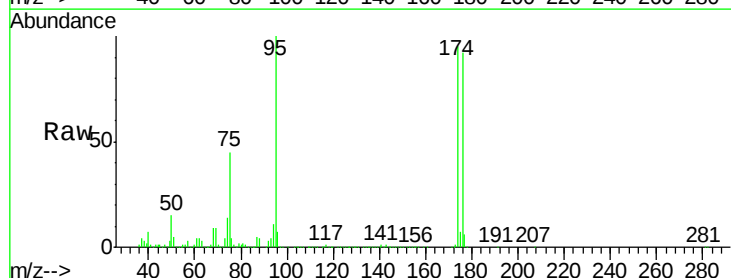
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-9-9.0-031419

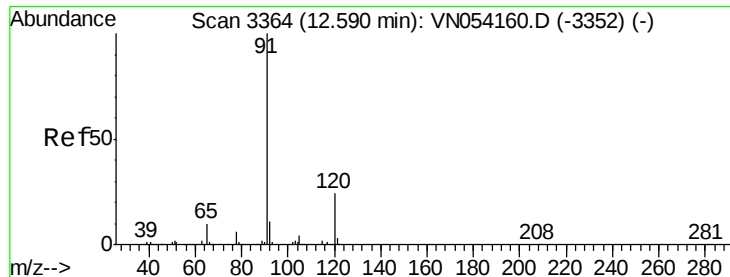
Tot Ion: 43 Resp: 12906
Ion Ratio Lower Upper
43 100
70 4.4 35.4 53.0#
55 7.7 19.8 29.6#
61 0.9 19.8 29.6#



#76
1,2,3-Trichloropropane
Concen: 29.581 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

Tgt Ion: 75 Resp: 572678
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#





#78

n-propylbenzene

Concen: 5.389 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

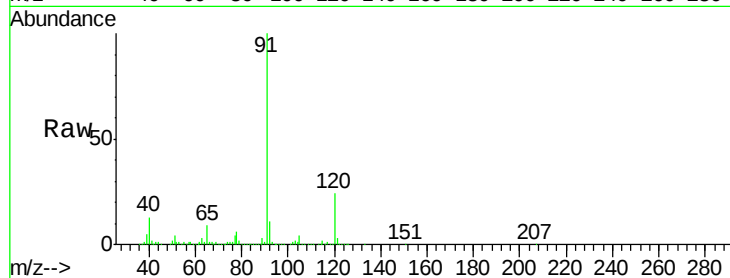
T11-MW-9-9.0-031419

Tot Ion: 91 Resp: 615865

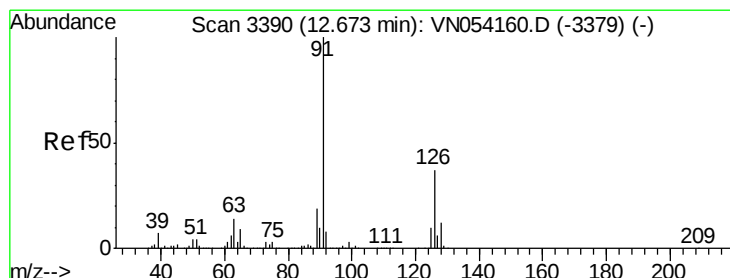
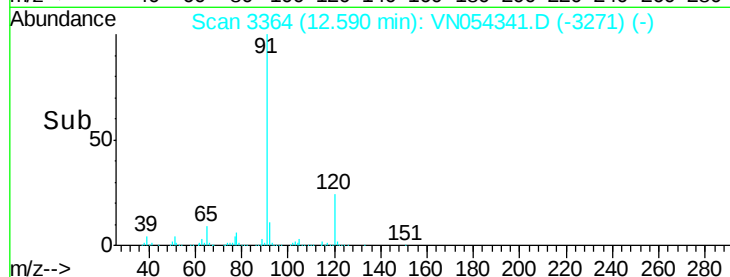
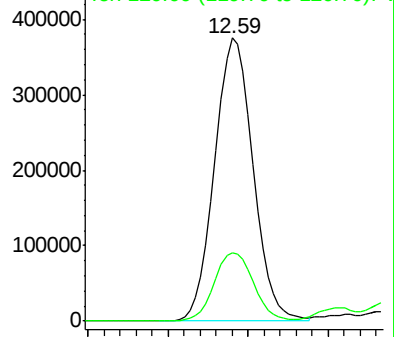
Ion Ratio Lower Upper

91 100

120 24.8 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN054341.D (-3271) (-)



#79

2-Chlorotoluene

Concen: 8.962 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN054341.D

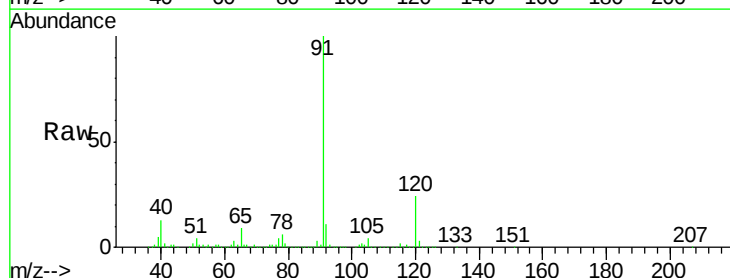
Acq: 16 Mar 2019 17:13

Tgt Ion: 91 Resp: 615865

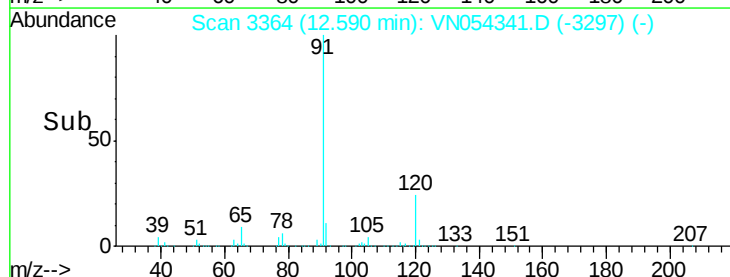
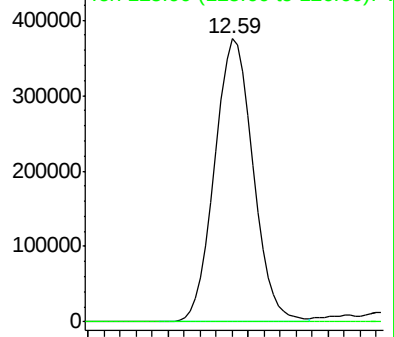
Ion Ratio Lower Upper

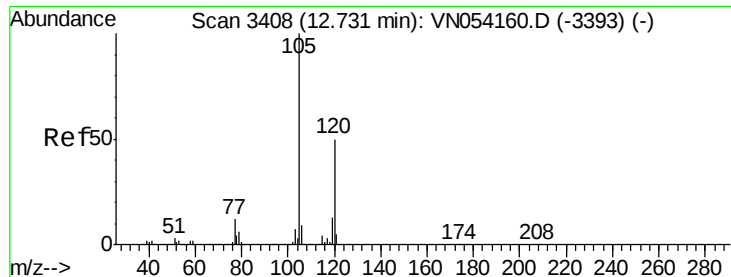
91 100

126 0.0 18.7 56.1#



Abundance Ion 91.00 (90.70 to 91.70): VN054341.D (-3297) (-)





#80

1,3,5-Trimethylbenzene

Concen: 1.480 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

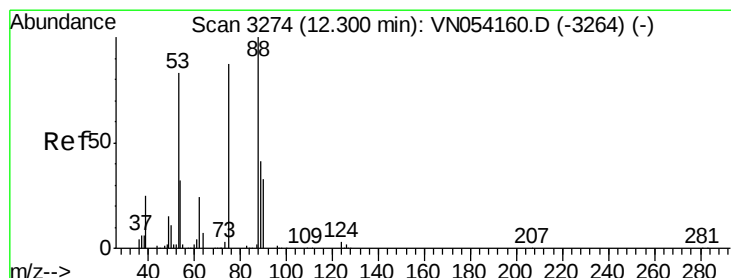
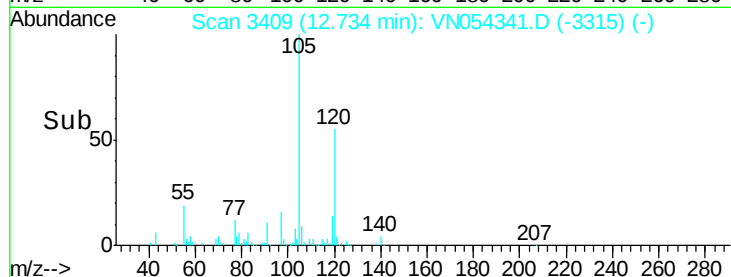
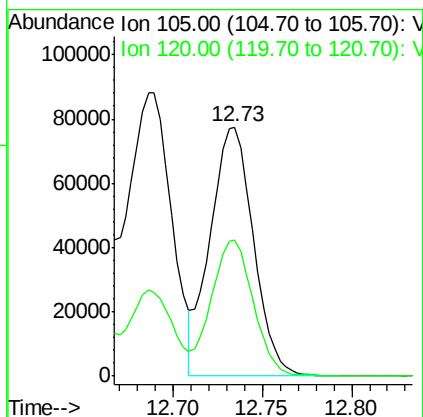
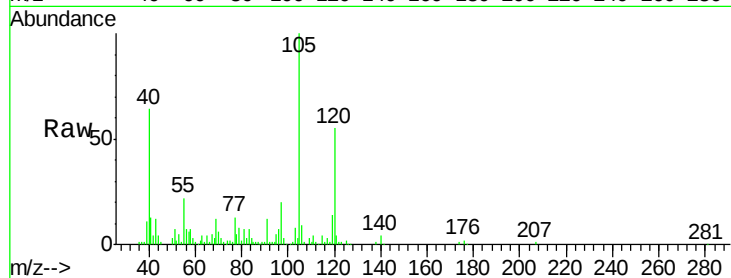
T11-MW-9-9.0-031419

Tot Ion:105 Resp: 129654

Ion Ratio Lower Upper

105 100

120 53.5 25.0 75.0



#81

trans-1,4-Dichloro-2-butene

Concen: 101.122 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

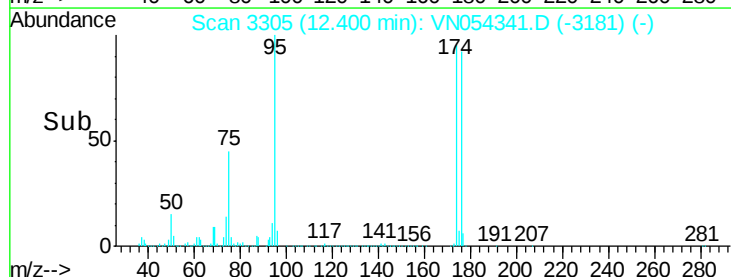
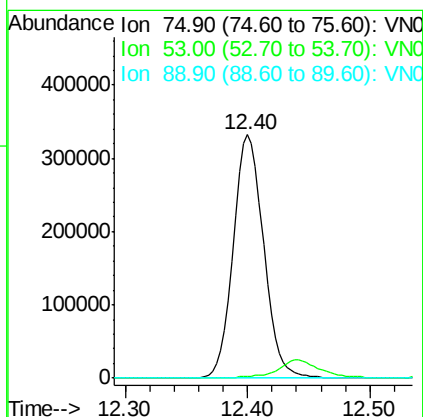
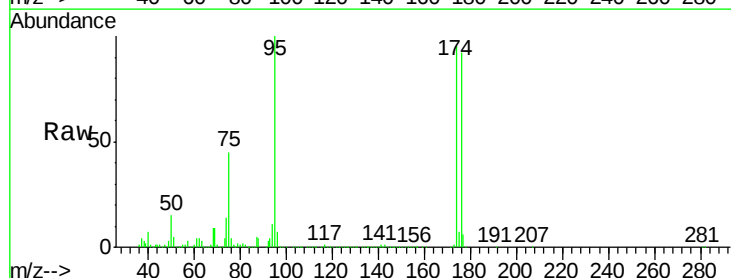
Tgt Ion: 75 Resp: 572678

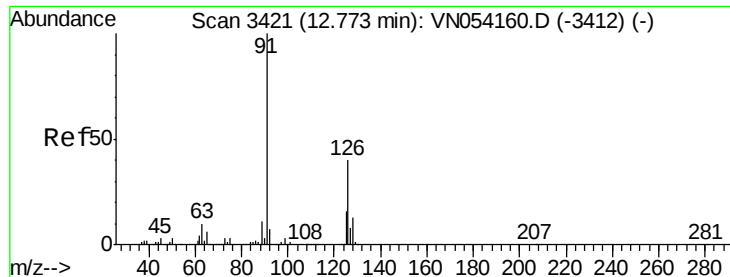
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#





#82

4-Chlorotoluene

Concen: 8.976 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.18 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

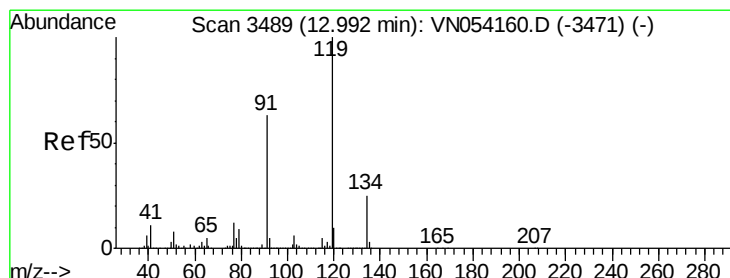
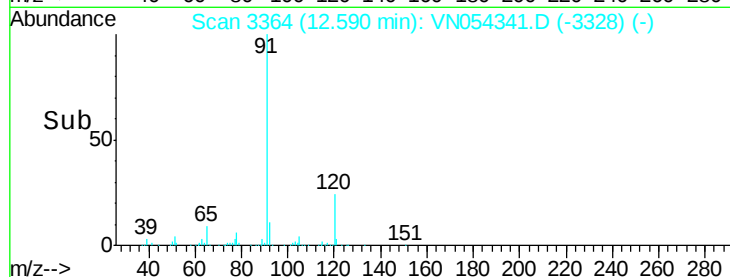
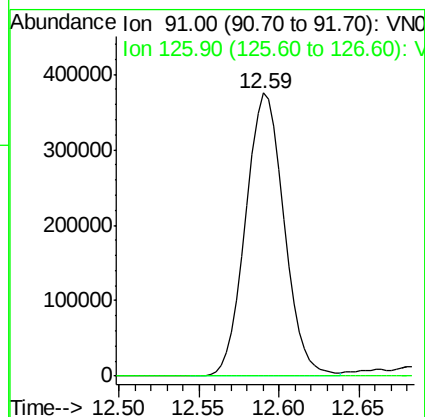
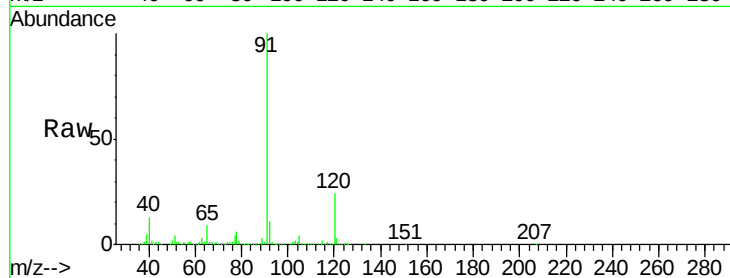
T11-MW-9-9.0-031419

Tot Ion: 91 Resp: 615865

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.1#



#83

tert-Butylbenzene

Concen: 0.514 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

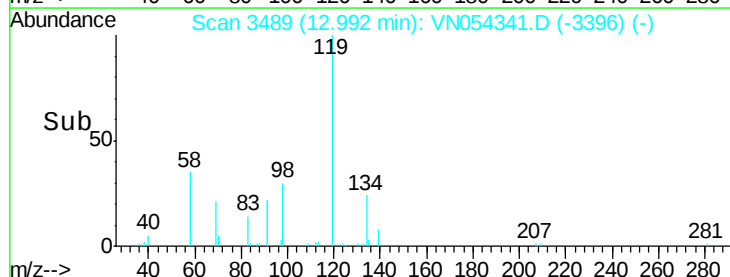
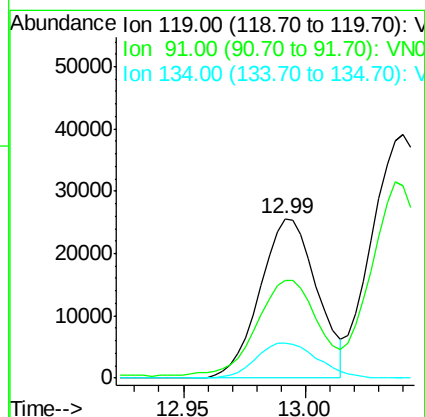
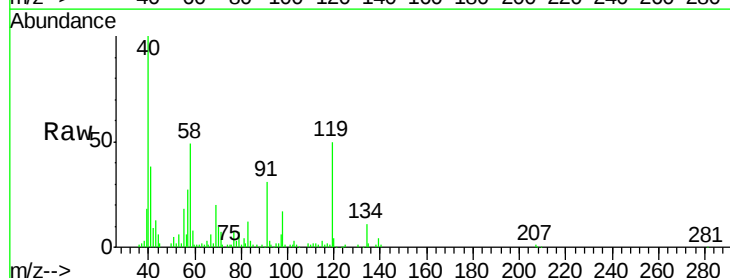
Tgt Ion: 119 Resp: 41440

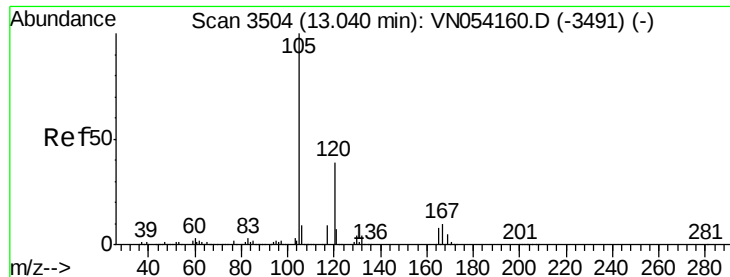
Ion Ratio Lower Upper

119 100

91 64.5 30.9 92.8

134 23.6 13.2 39.6





#84

1,2,4-Trimethylbenzene

Concen: 6.268 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

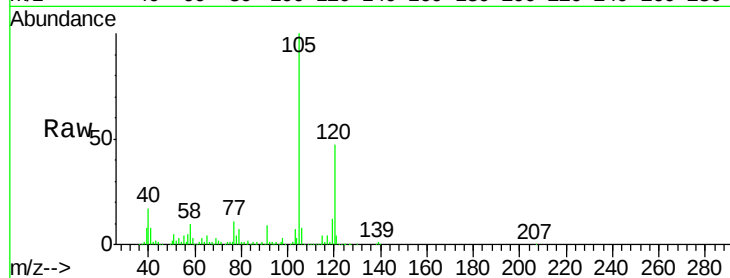
T11-MW-9-9.0-031419

Tot Ion:105 Resp: 538722

Ion Ratio Lower Upper

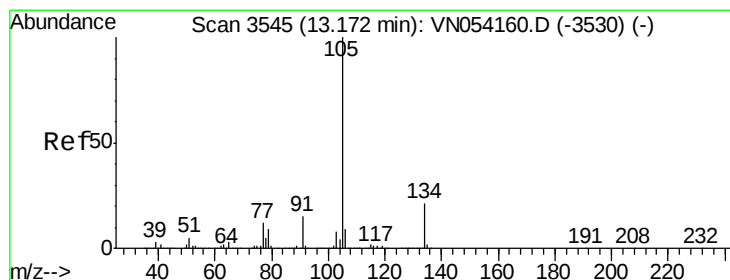
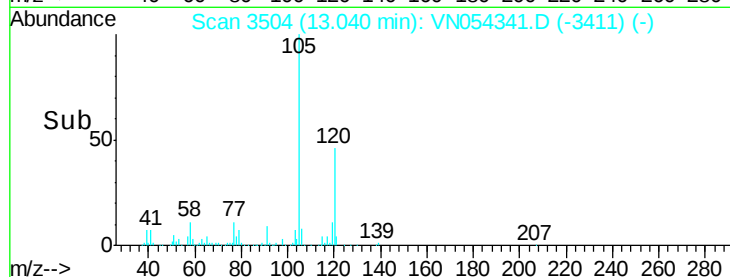
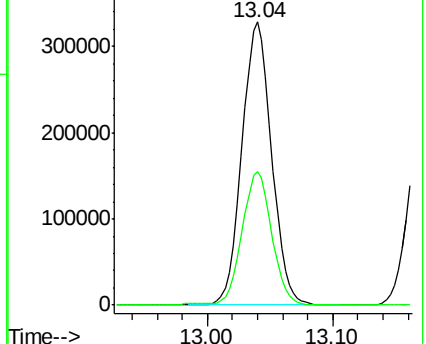
105 100

120 47.3 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 3.334 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054341.D

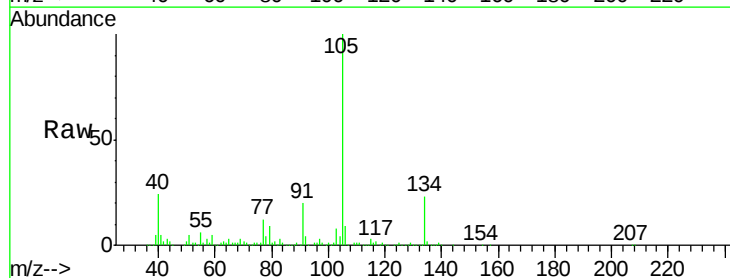
Acq: 16 Mar 2019 17:13

Tgt Ion:105 Resp: 348655

Ion Ratio Lower Upper

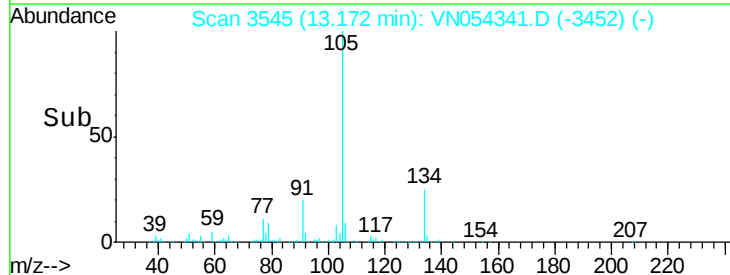
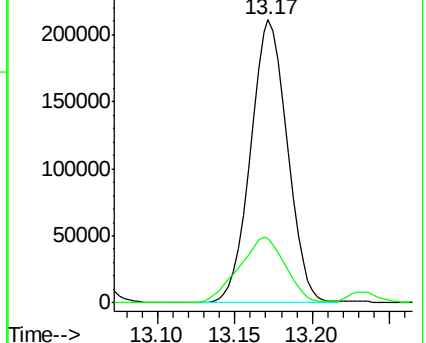
105 100

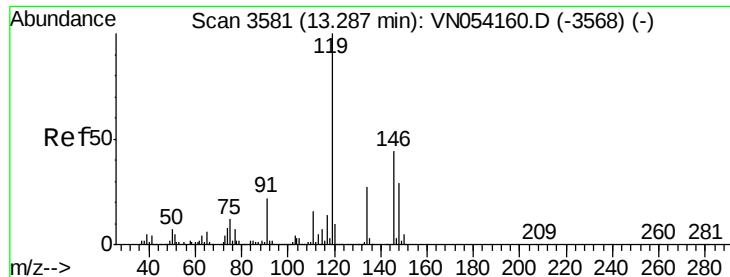
134 29.6 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

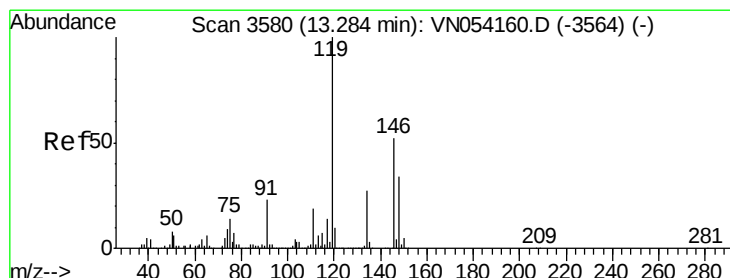
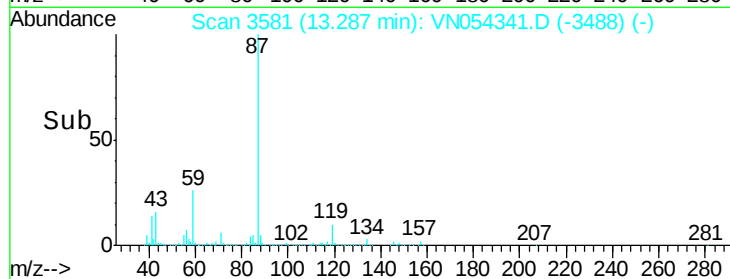
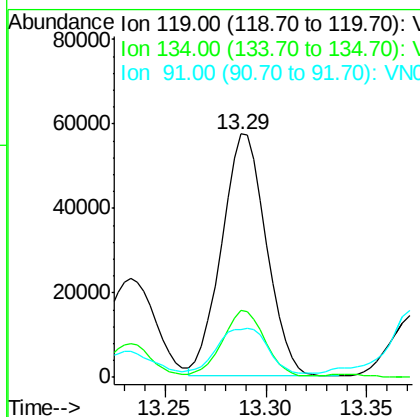
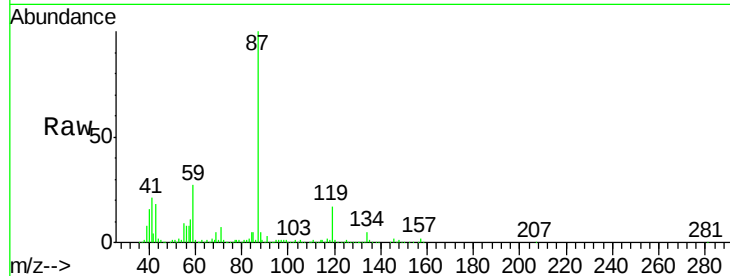




#86
p-Isopropyltoluene
Concen: 0.967 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

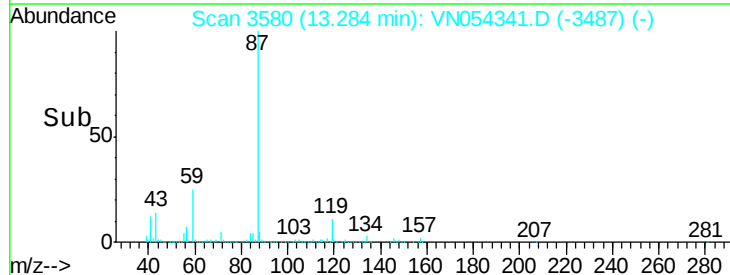
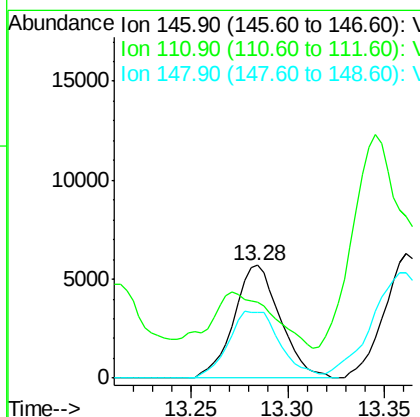
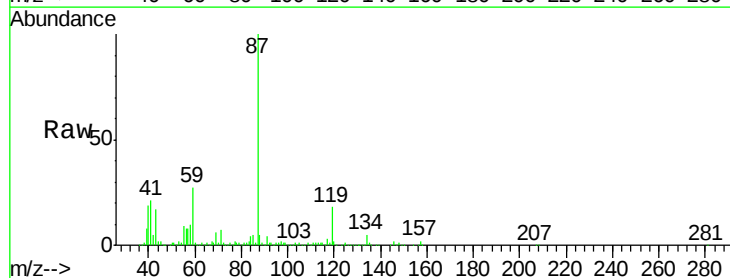
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-9-9.0-031419

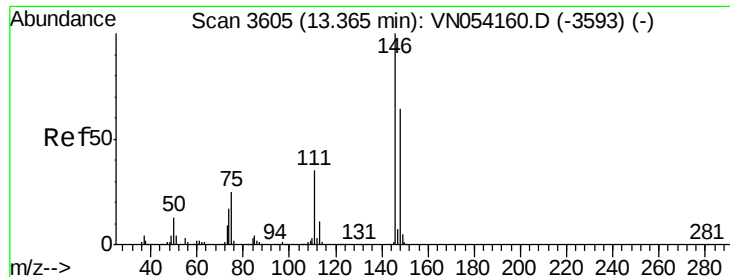
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.6	40.8
91	21.0	11.1	33.3



#87
1,3-Dichlorobenzene
Concen: 0.201 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN054341.D
Acq: 16 Mar 2019 17:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	65.4	18.8	56.3#
148	66.1	32.2	96.6





#88

1,4-Dichlorobenzene

Concen: 0.231 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

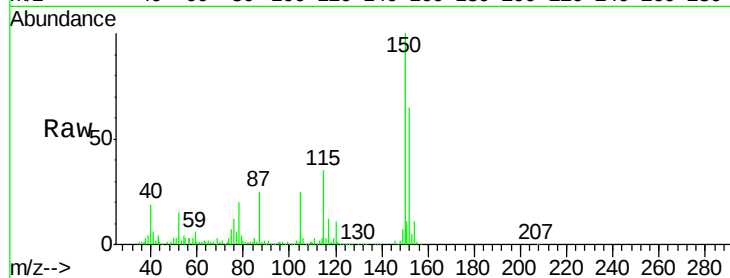
Tot Ion:146 Resp: 10675

Ion Ratio Lower Upper

146 100

111 224.5 18.1 54.1#

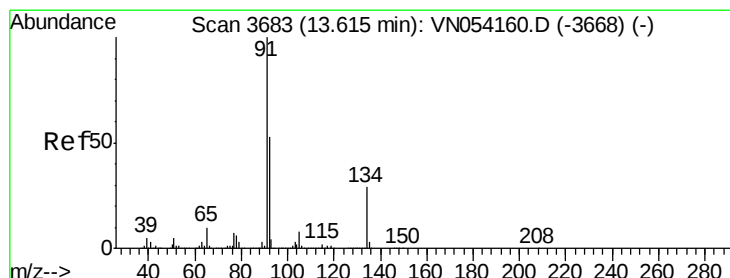
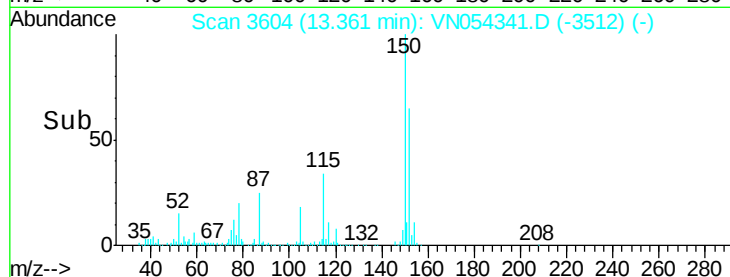
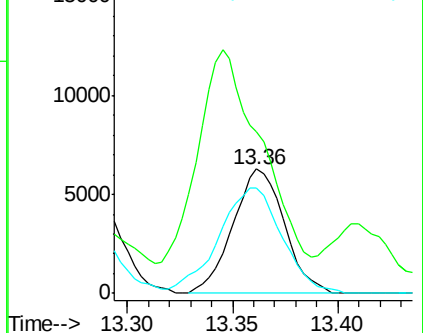
148 104.1 32.0 96.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 3.481 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

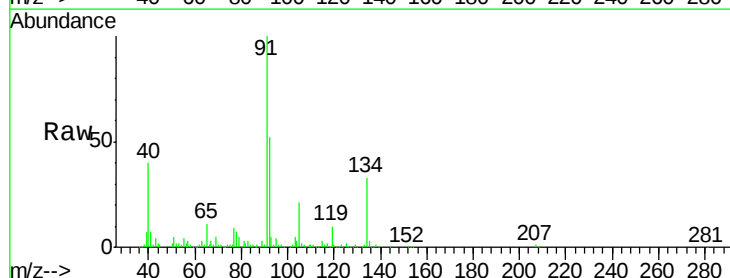
Tgt Ion: 91 Resp: 242684

Ion Ratio Lower Upper

91 100

92 43.7 26.2 78.6

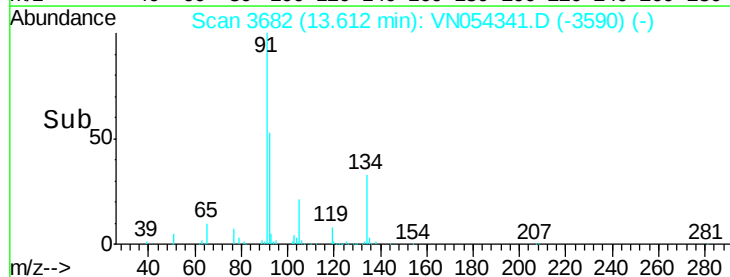
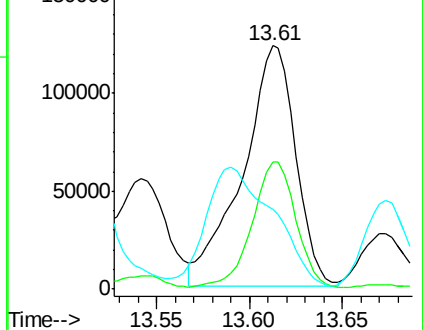
134 0.0 14.3 42.9#

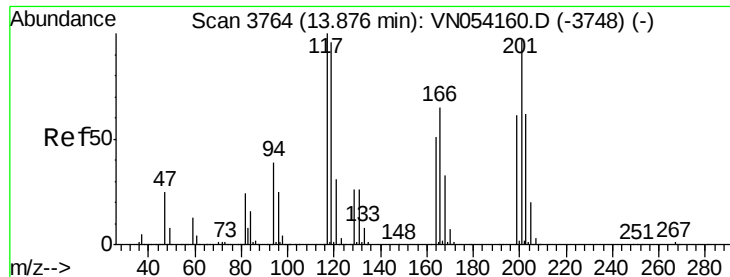


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 6.784 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

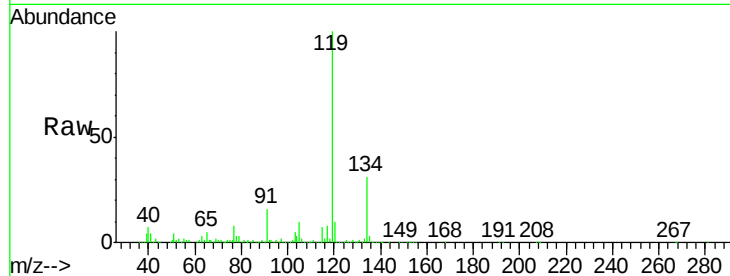
T11-MW-9-9.0-031419

Tot Ion:117 Resp: 103061

Ion Ratio Lower Upper

117 100

201 0.0 48.1 144.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

150000

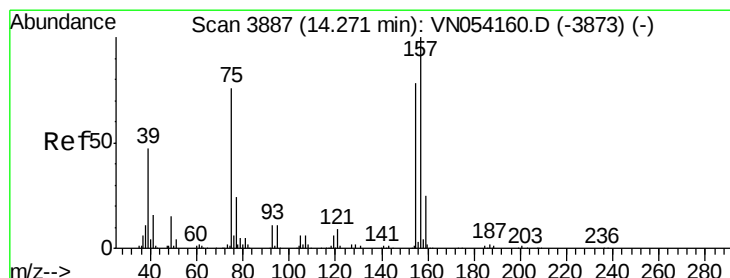
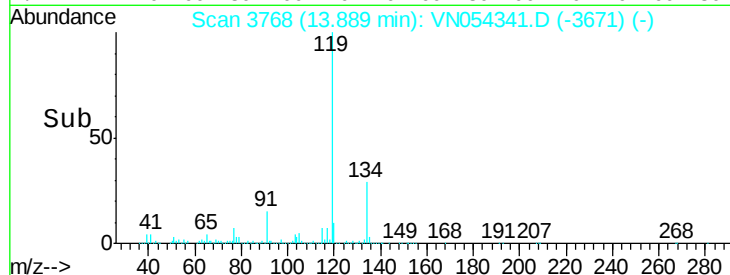
100000

50000

0

13.85 13.90

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.259 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.02 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

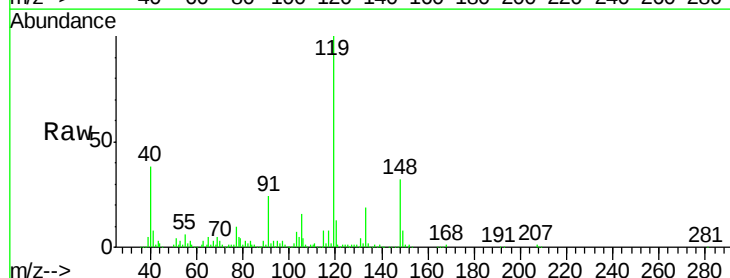
Tgt Ion: 75 Resp: 898

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

157 0.0 63.1 189.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

1500

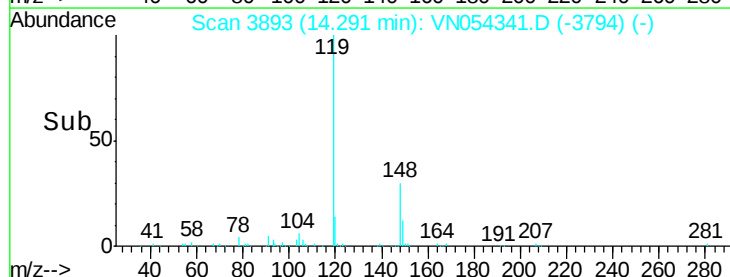
1000

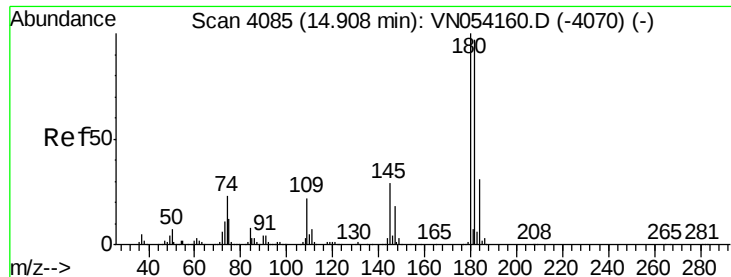
500

0

14.26 14.28 14.30 14.32

Time-->





#93

1,2,4-Trichlorobenzene

Concen: 3.139 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

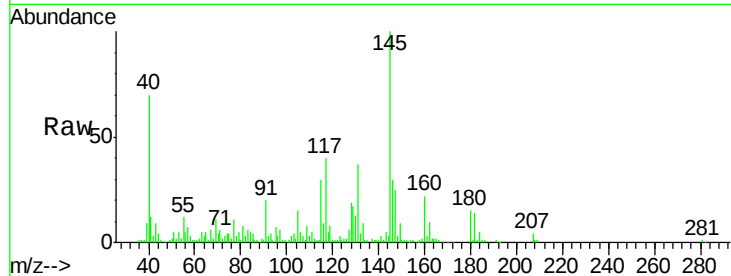
Tot Ion:180 Resp: 18162

Ion Ratio Lower Upper

180 100

182 102.5 48.0 144.2

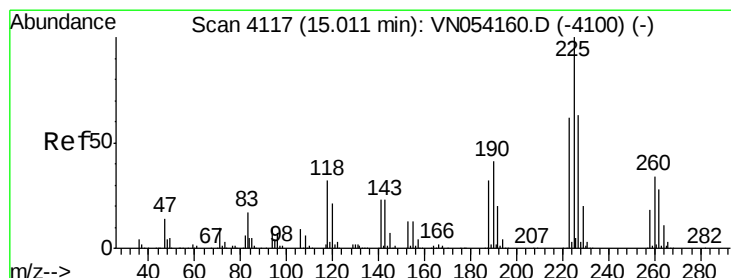
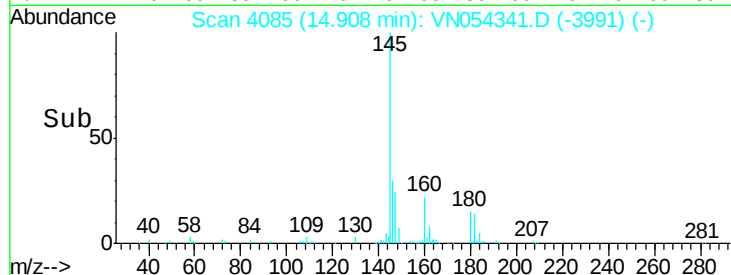
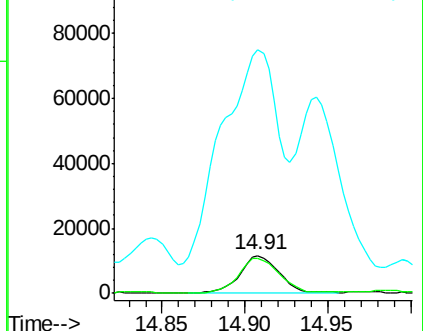
145 1020.3 14.2 42.8#



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



#94

Hexachlorobutadiene

Concen: 0.289 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

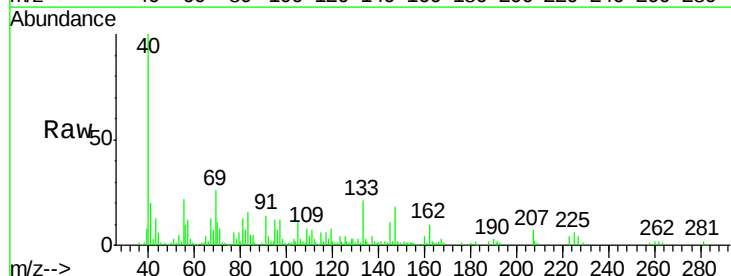
Tgt Ion:225 Resp: 5047

Ion Ratio Lower Upper

225 100

223 70.7 31.1 93.5

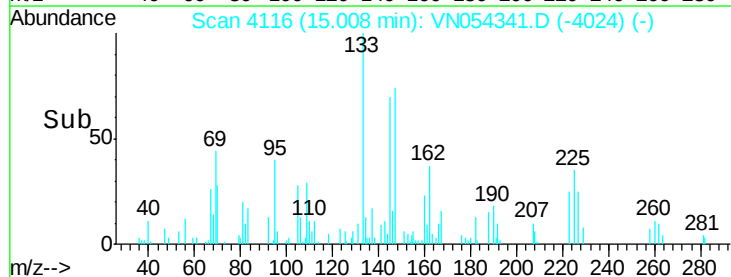
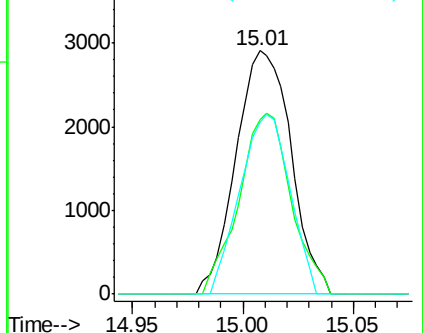
227 67.0 31.9 95.9

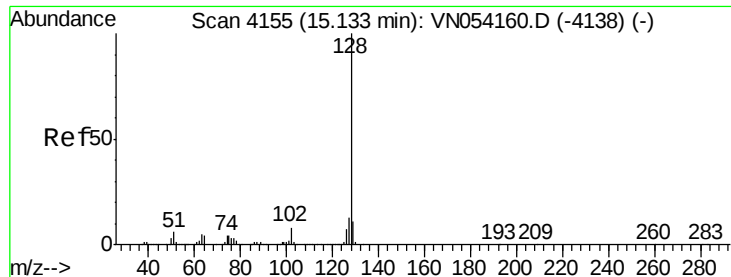


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 74.878 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Instrument :

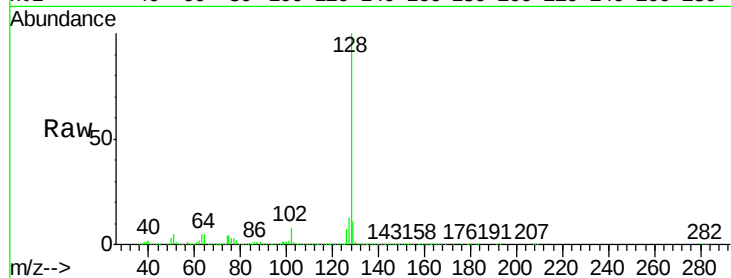
MSVOA_N

ClientSampleId :

T11-MW-9-9.0-031419

Tot Ion:128 Resp: 4430659

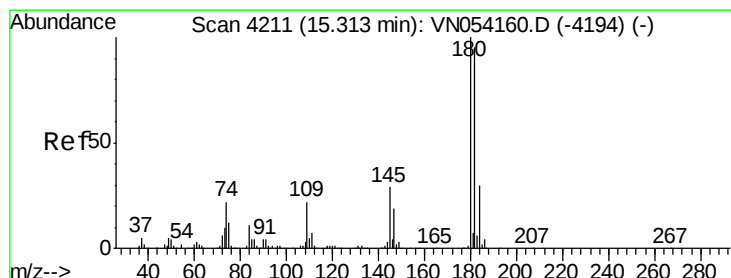
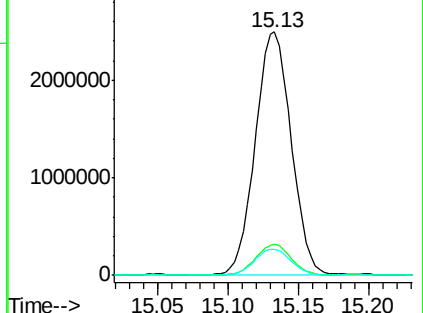
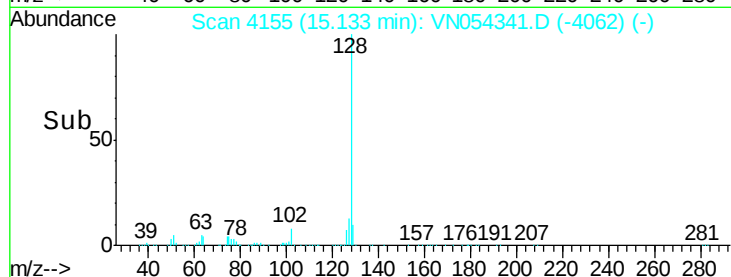
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.9	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.816 ug/l

RT: 15.32 min Scan# 4212

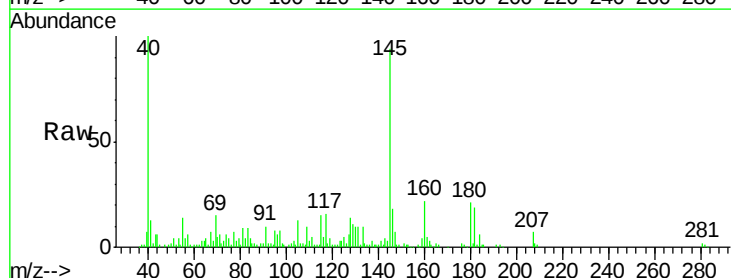
Delta R.T. 0.00 min

Lab File: VN054341.D

Acq: 16 Mar 2019 17:13

Tgt Ion:180 Resp: 19895

Ion	Ratio	Lower	Upper
180	100		
182	88.9	47.5	142.6
145	0.0	14.8	44.3#



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

