

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121119\
 Data File : VN059562.D
 Acq On : 11 Dec 2019 15:24
 Operator : JC/SP
 Sample : K5664-04 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

Quant Time: Dec 12 00:52:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	247896	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	397182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	351941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141472	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	177725	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
35) Dibromofluoromethane	7.57	113	125973	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
50) Toluene-d8	10.08	98	489546	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.40	95	157966	44.10	ug/l	0.00
Spiked Amount			Recovery	=	88.20%	

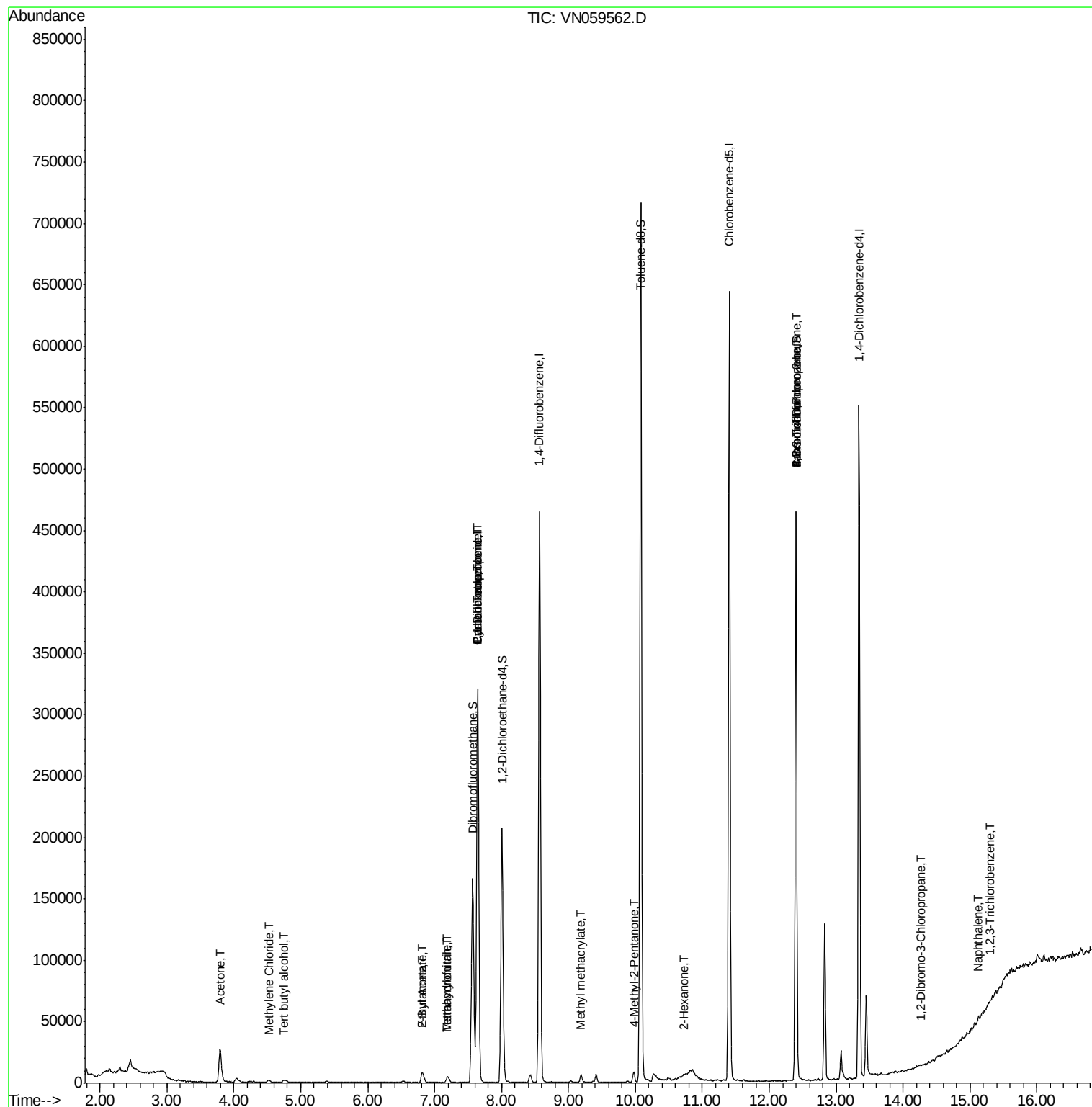
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	1849	3.226	ug/l #	71
16) Acetone	3.79	43	46107	28.488	ug/l	98
17) Carbon Disulfide	4.03	76	2634	Below Cal	#	74
20) Methylene Chloride	4.53	84	1567	0.265	ug/l #	82
25) 2-Butanone	6.81	43	17895	8.214	ug/l	97
29) Tetrahydrofuran	7.20	42	4260	2.811	ug/l	91
31) Cyclohexane	7.64	56	5789	1.109	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	21019	5.158	ug/l #	51
37) Ethyl Acetate	6.81	43	17895	5.188	ug/l #	69
38) Carbon Tetrachloride	7.64	117	25334	6.307	ug/l #	15
41) Methacrylonitrile	7.19	41	1531	0.773	ug/l #	100
48) Methyl methacrylate	9.19	41	3836	1.247	ug/l	91
51) 4-Methyl-2-Pentanone	9.98	43	6352	0.612	ug/l	98
59) 2-Hexanone	10.72	43	655	2.404	ug/l #	26
71) Bromoform	12.40	173	1061	0.490	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	86017	23.776	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	86017	63.969	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.26	75	106	2.204	ug/l #	3
95) Naphthalene	15.13	128	1979	0.214	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.29	180	285	2.498	ug/l #	18

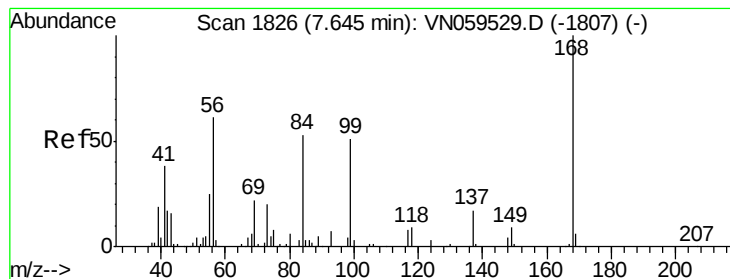
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 00:52:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059562.D

Acq: 11 Dec 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

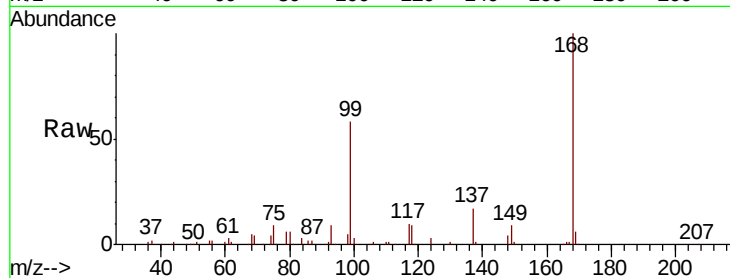
02-03-08-09-10-11-12-COMP

Tot Ion:168 Resp: 247896

Ion Ratio Lower Upper

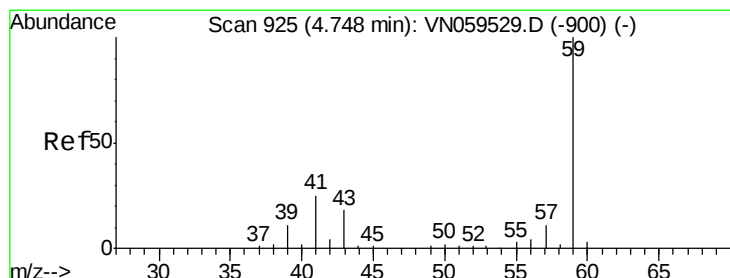
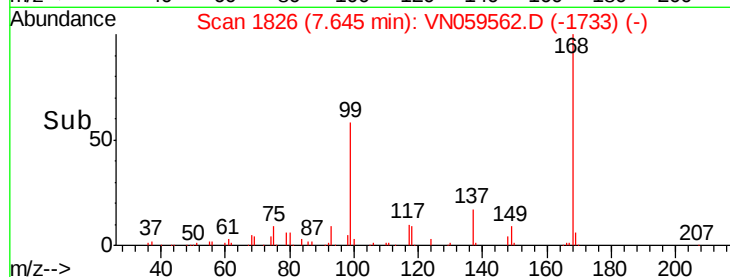
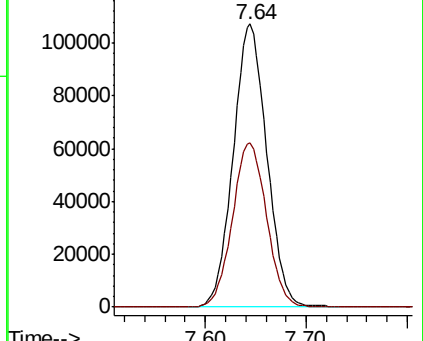
168 100

99 58.1 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 3.226 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.01 min

Lab File: VN059562.D

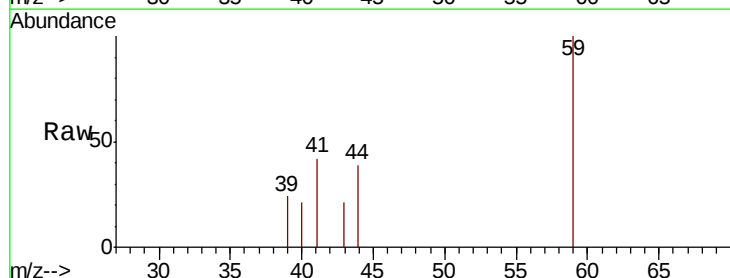
Acq: 11 Dec 2019 15:24

Tgt Ion: 59 Resp: 1849

Ion Ratio Lower Upper

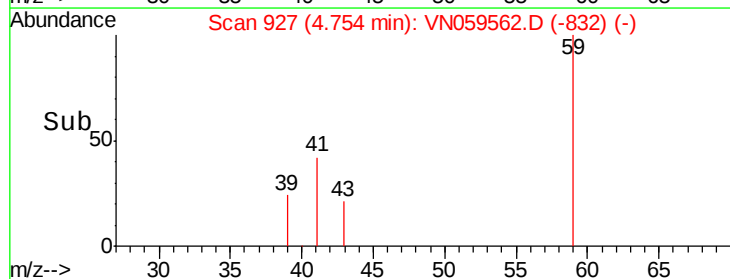
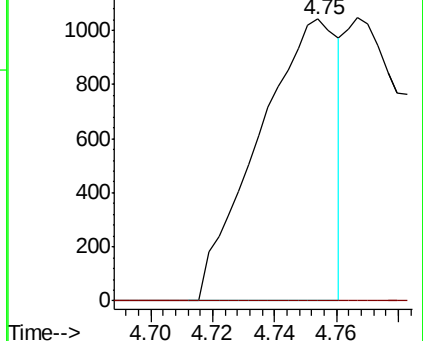
59 100

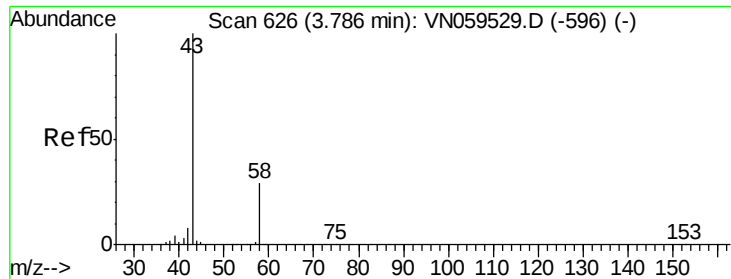
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 28.488 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059562.D

Acq: 11 Dec 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

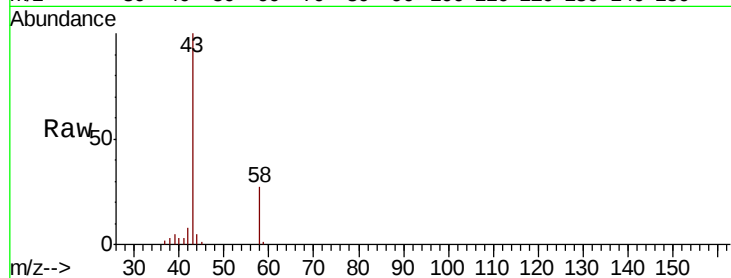
02-03-08-09-10-11-12-COMP

Tot Ion: 43 Resp: 46107

Ion Ratio Lower Upper

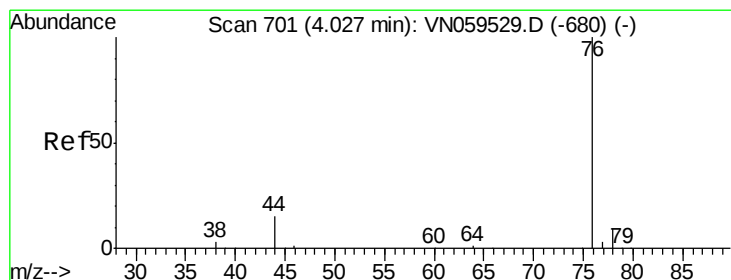
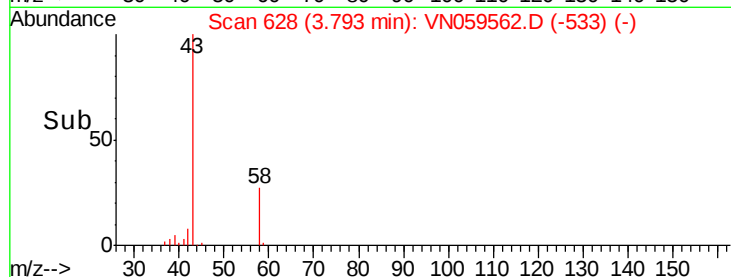
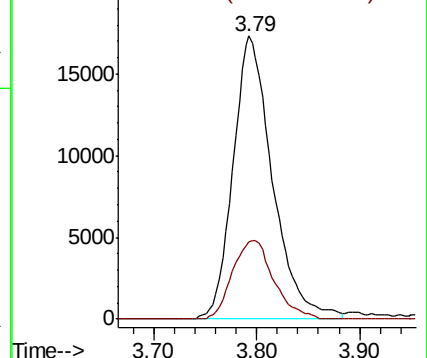
43 100

58 27.4 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VN059529.D (-596) (-)

Ion 58.00 (57.70 to 58.70): VN059529.D (-596) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059562.D

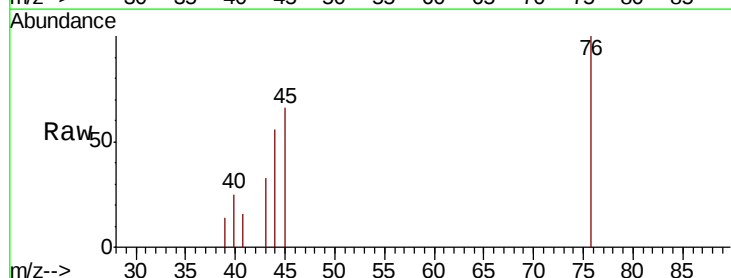
Acq: 11 Dec 2019 15:24

Tgt Ion: 76 Resp: 2634

Ion Ratio Lower Upper

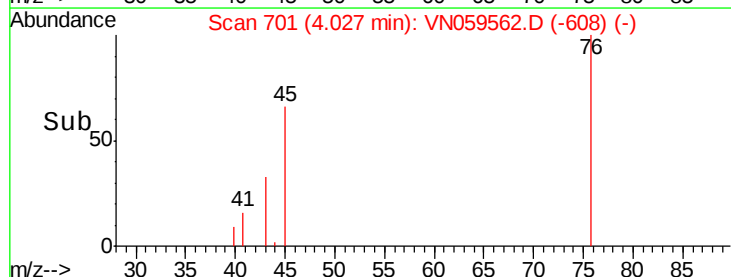
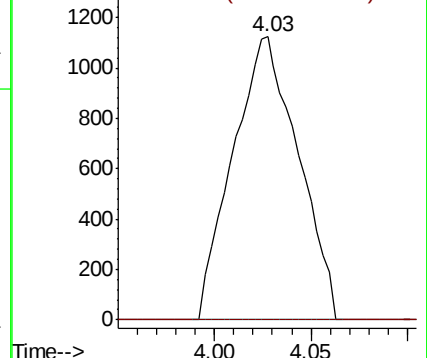
76 100

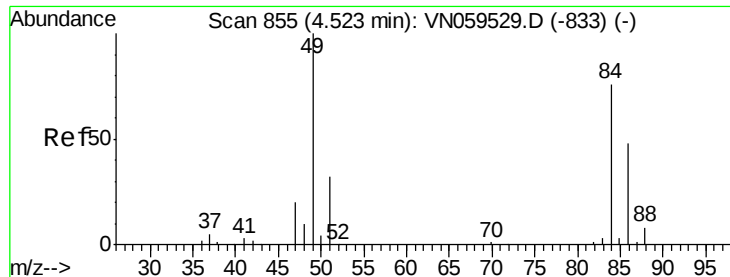
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VN059529.D (-680) (-)

Ion 77.90 (77.60 to 78.60): VN059529.D (-680) (-)

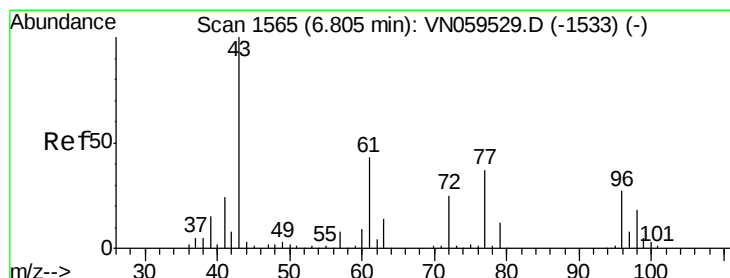
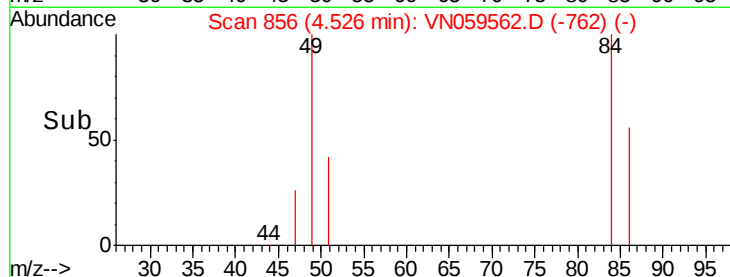
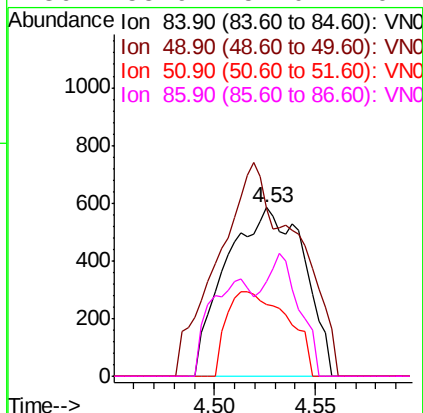
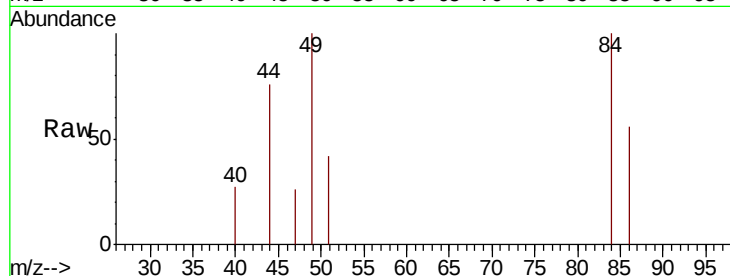




#20
Methvlene Chloride
Concen: 0.265 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

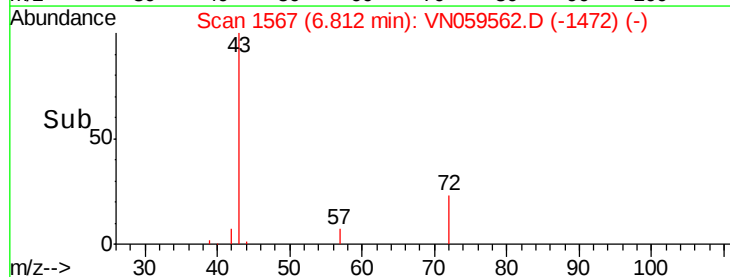
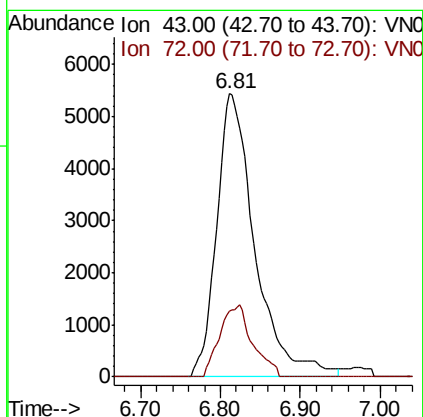
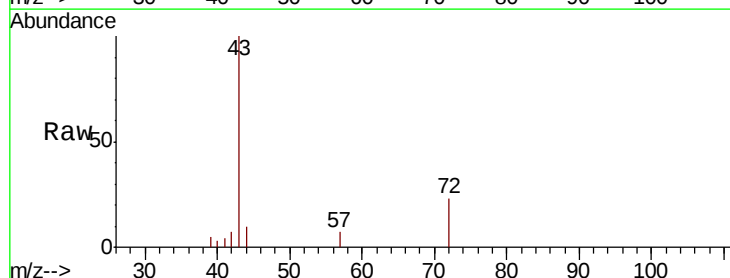
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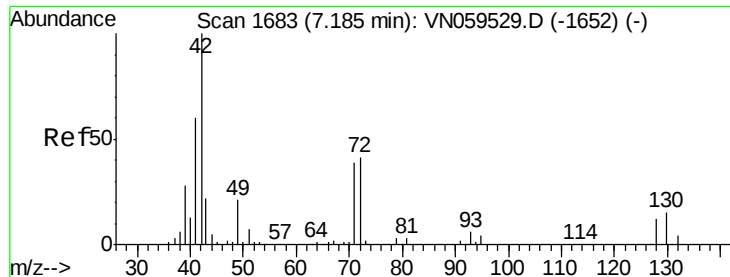
Tot Ion: 84 Resp: 1567
Ion Ratio Lower Upper
84 100
49 99.7 105.8 158.8#
51 42.2 33.7 50.5
86 55.9 51.0 76.4



#25
2-Butanone
Concen: 8.214 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion: 43 Resp: 17895
Ion Ratio Lower Upper
43 100
72 23.2 19.9 29.9

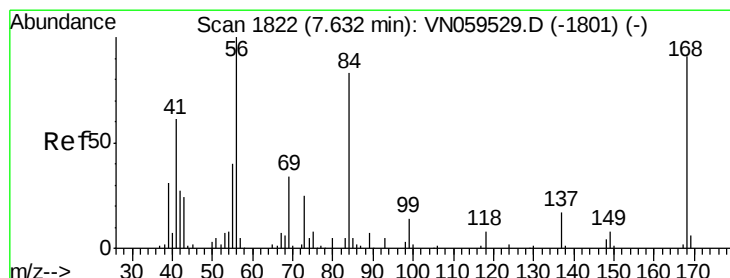
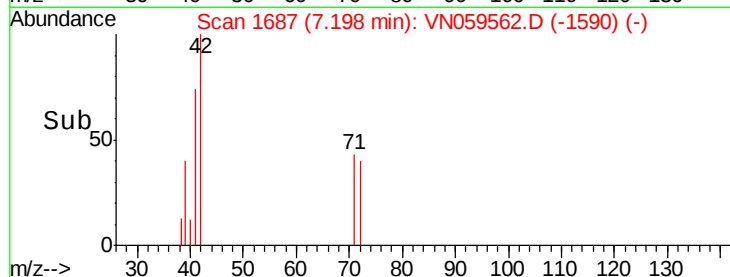
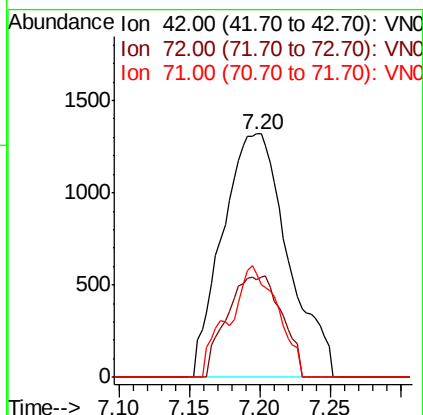
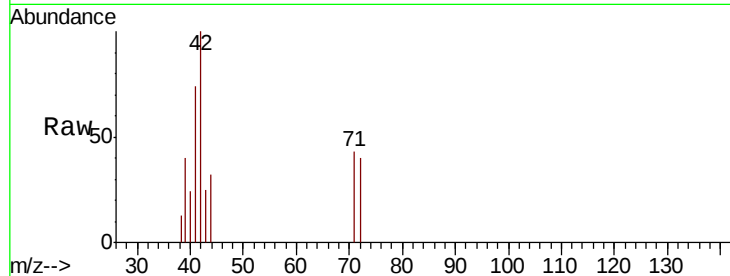




#29
Tetrahydrofuran
Concen: 2.811 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

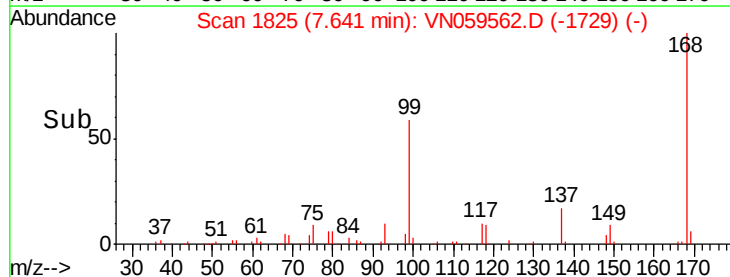
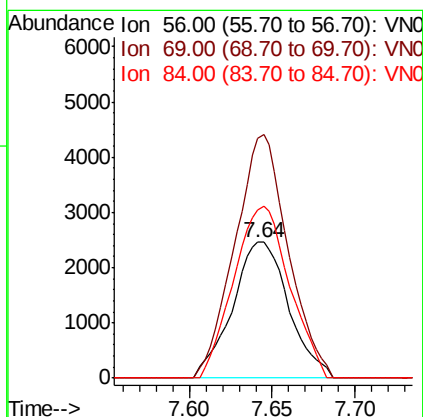
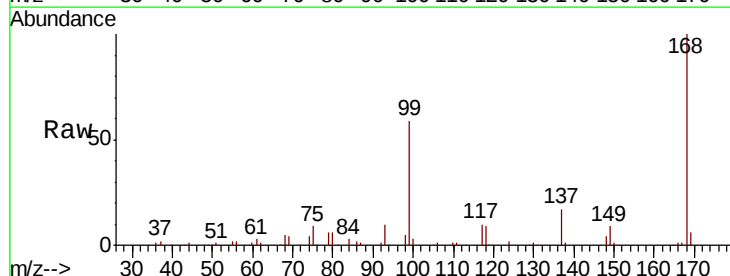
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MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

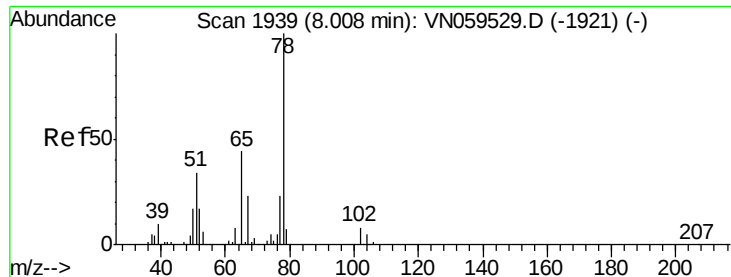
Tot Ion	Ratio	Lower	Upper
42	100		
72	34.9	32.7	49.1
71	34.3	31.4	47.2



#31
Cyclohexane
Concen: 1.109 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
56	100		
69	176.4	26.9	40.3#
84	123.7	66.5	99.7#

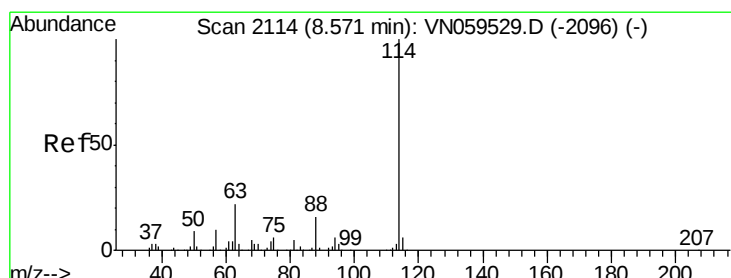
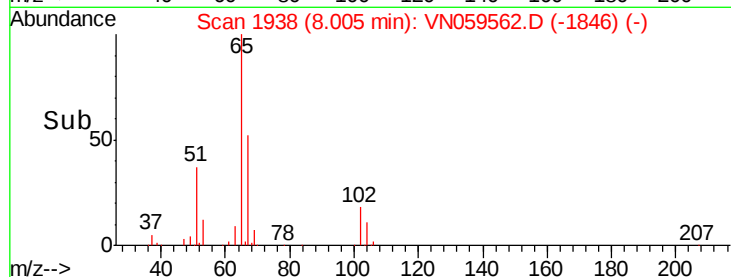
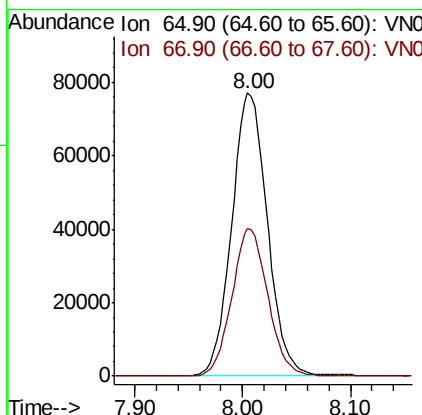
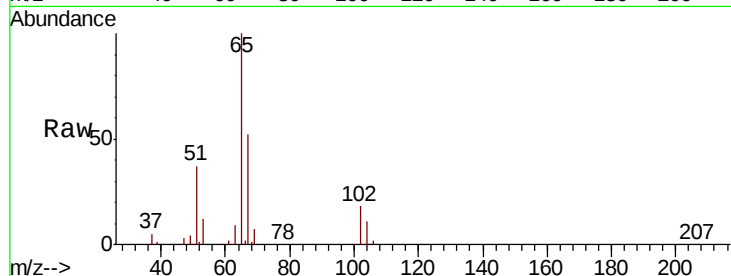




#33
 1,2-Dichloroethane-d4
 Concen: 51.297 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059562.D
 Acq: 11 Dec 2019 15:24

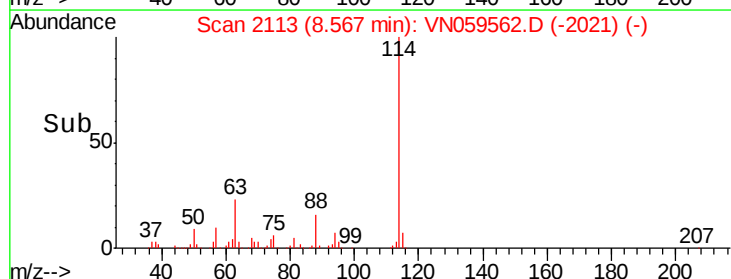
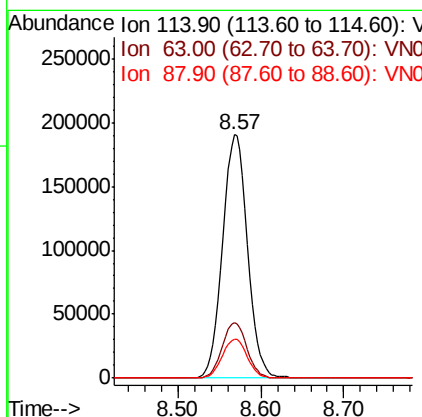
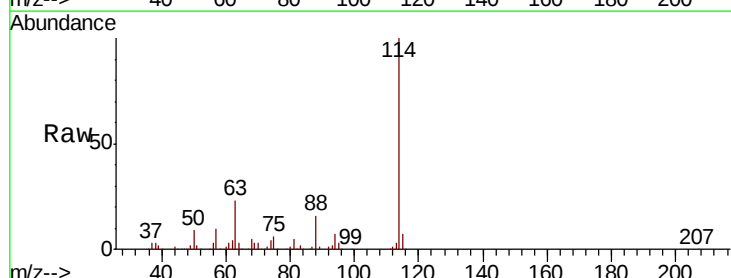
Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

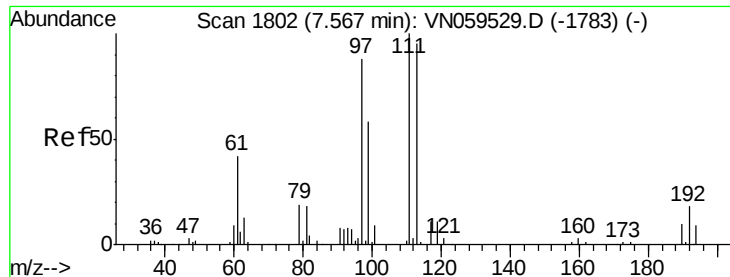
Tot Ion: 65 Resp: 177725
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059562.D
 Acq: 11 Dec 2019 15:24

Tgt Ion: 114 Resp: 397182
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 45.0
 88 16.2 0.0 32.2

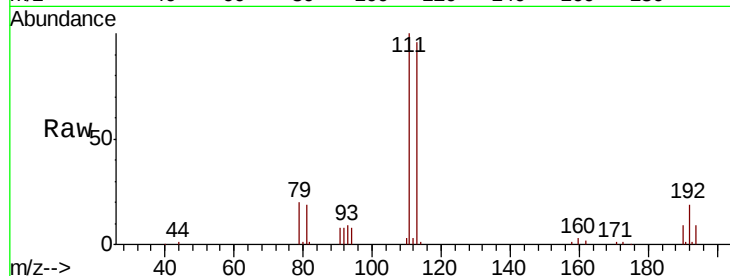




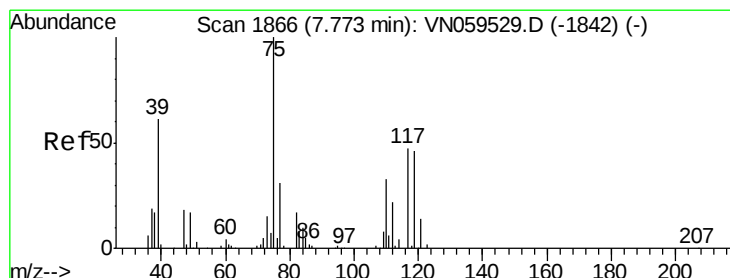
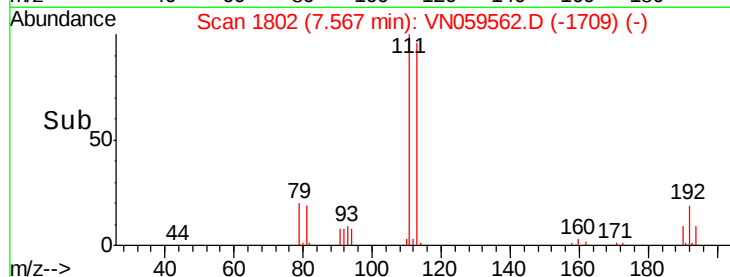
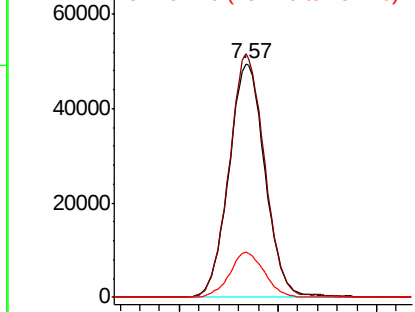
#35
 Dibromofluoromethane
 Concen: 53.150 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059562.D
 Acq: 11 Dec 2019 15:24

Instrument :
 MSVOA_N
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Tot Ion:113 Resp: 125973
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.2 123.4
 192 18.7 14.8 22.2

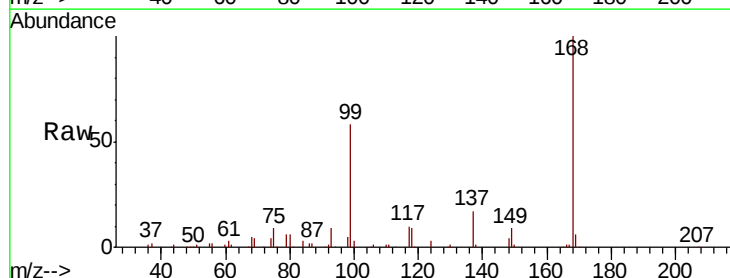


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

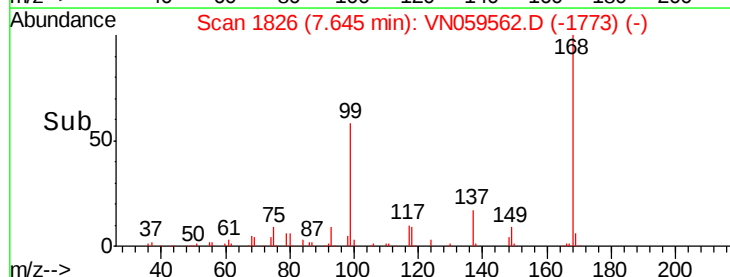
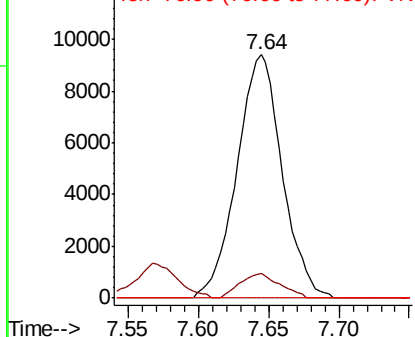


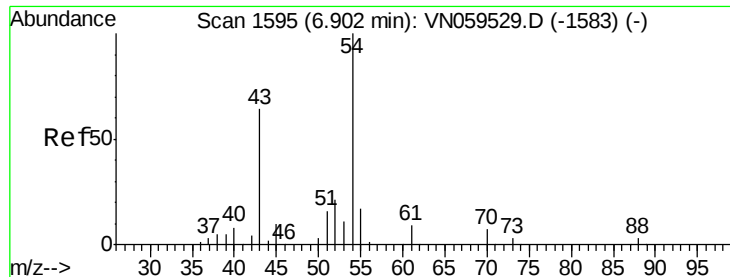
#36
 1,1-Dichloropropene
 Concen: 5.158 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059562.D
 Acq: 11 Dec 2019 15:24

Tgt Ion: 75 Resp: 21019
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.7 50.0#
 77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

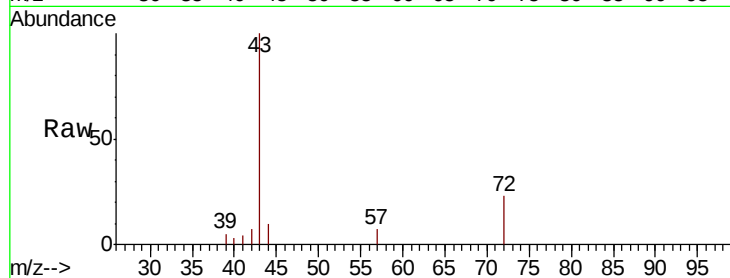




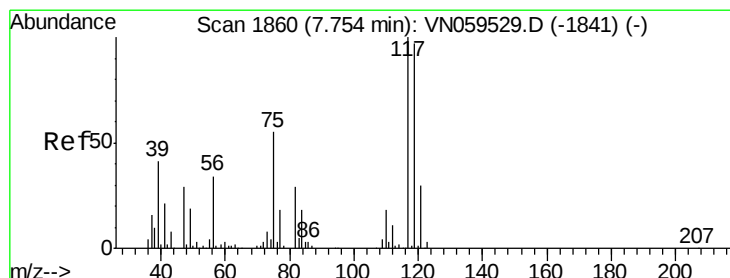
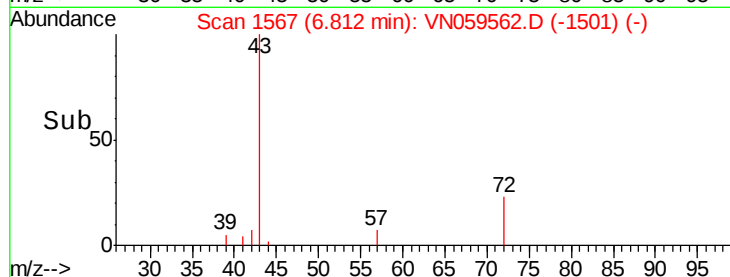
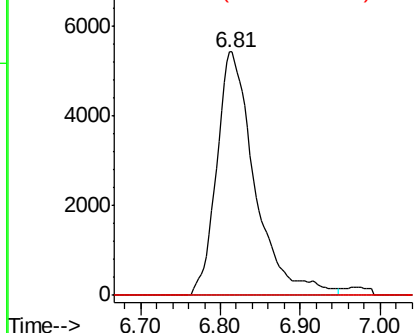
#37
Ethyl Acetate
Concen: 5.188 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.09 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion: 43 Resp: 17895
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 7.7 11.5#

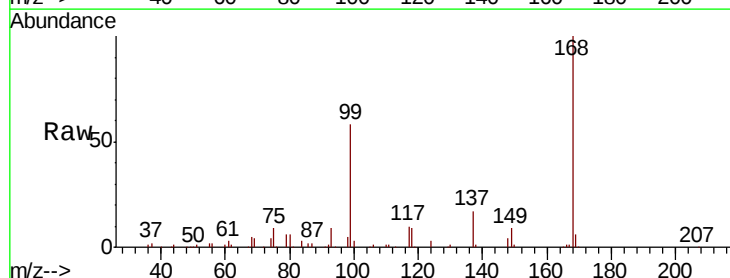


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

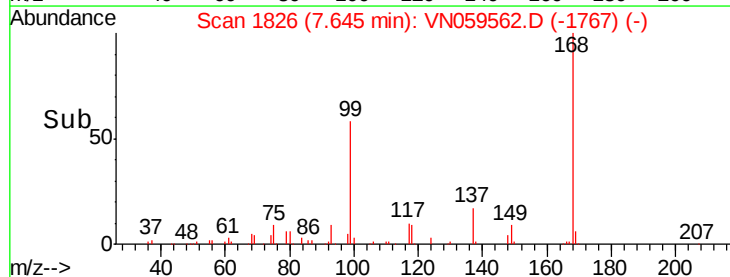
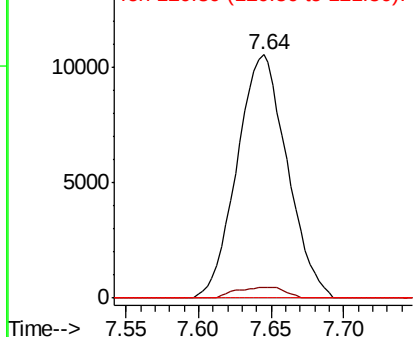


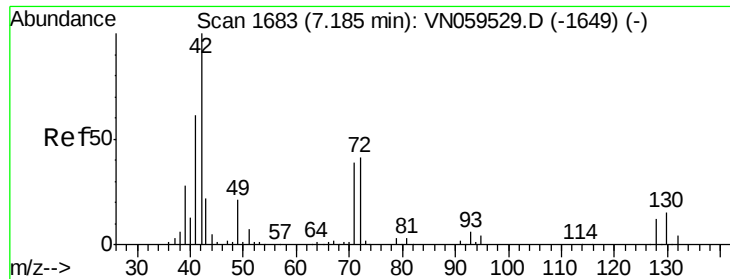
#38
Carbon Tetrachloride
Concen: 6.307 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion: 117 Resp: 25334
Ion Ratio Lower Upper
117 100
119 4.5 77.0 115.4#
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

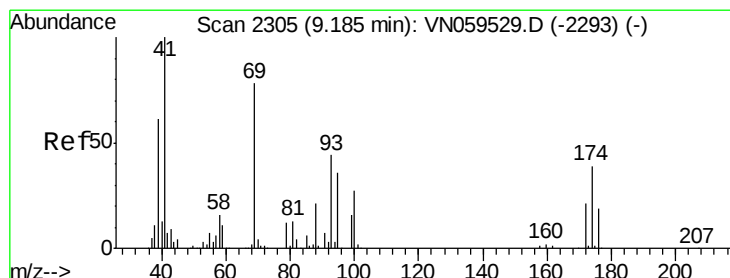
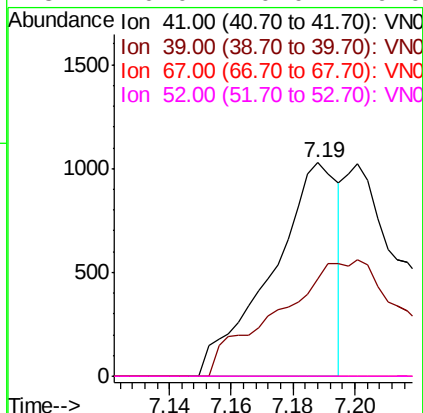
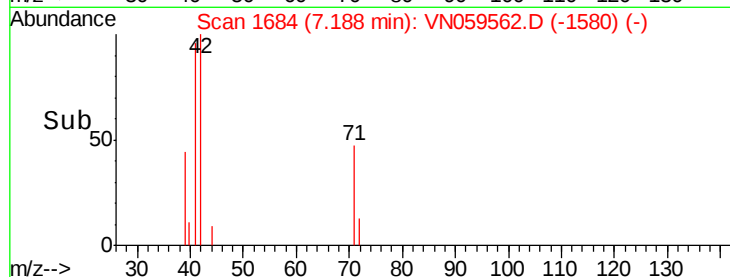
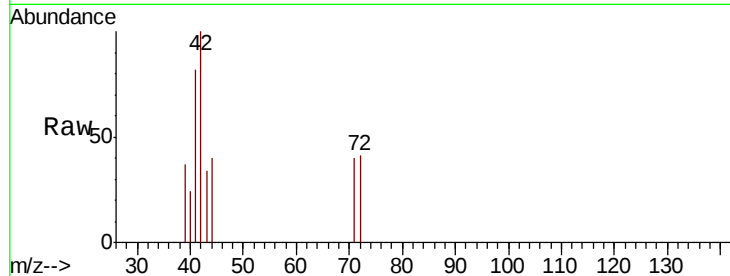




#41
Methacrylonitrile
Concen: 0.773 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.03 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

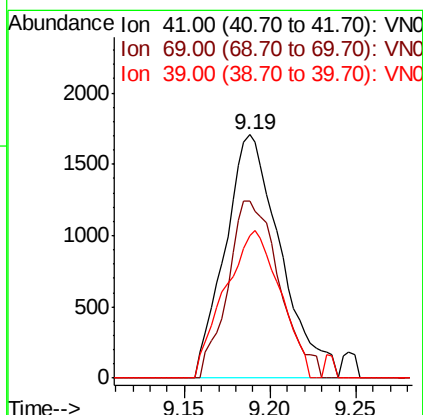
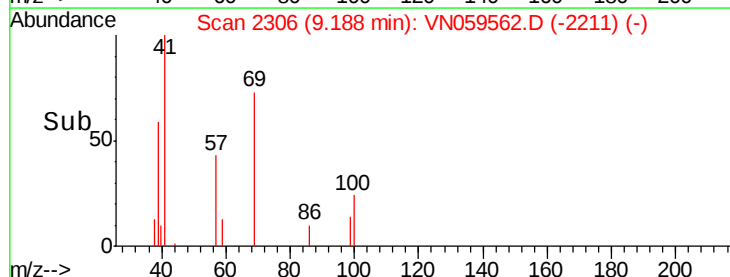
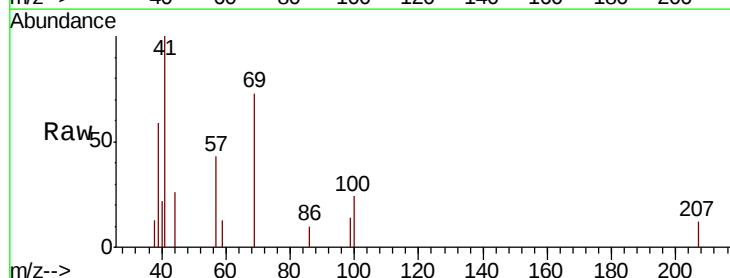
Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

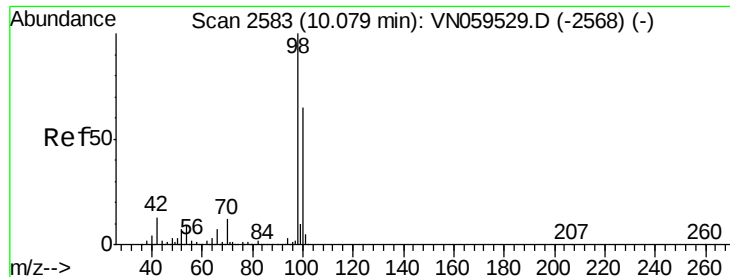
Tot Ion:	41	Resp:	1531
Ion	Ratio	Lower	Upper
41	100		
39	103.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#48
Methyl methacrylate
Concen: 1.247 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion:	41	Resp:	3836
Ion	Ratio	Lower	Upper
41	100		
69	67.5	64.0	96.0
39	60.5	50.0	75.0





#50

Toluene-d8

Concen: 50.592 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059562.D

Acq: 11 Dec 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

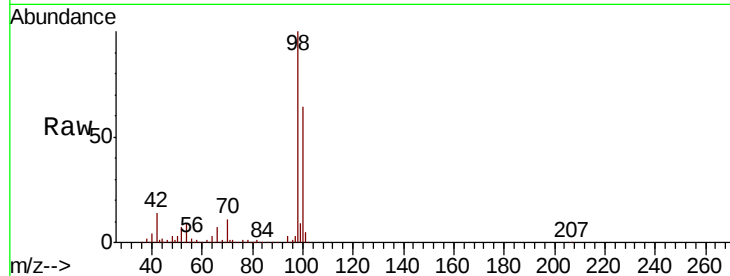
02-03-08-09-10-11-12-COMP

Tot Ion: 98 Resp: 489546

Ion Ratio Lower Upper

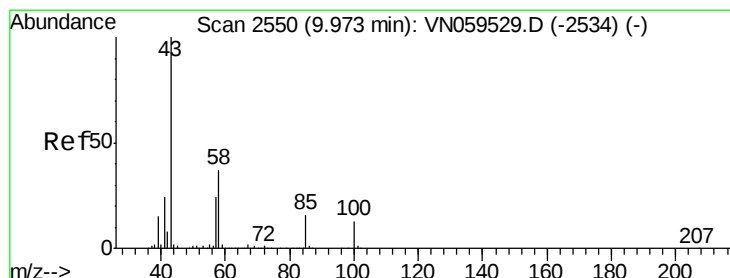
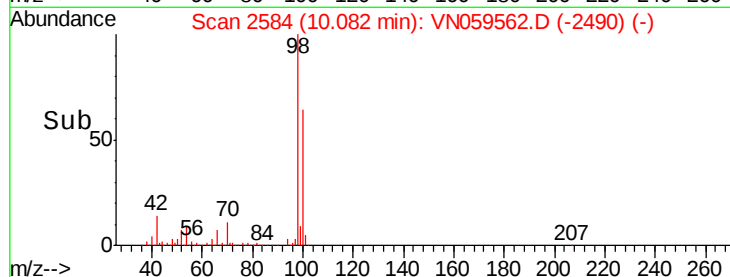
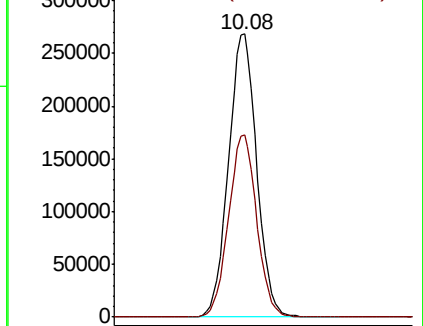
98 100

100 64.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.612 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059562.D

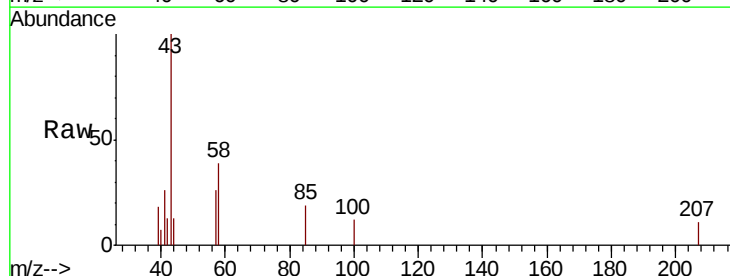
Acq: 11 Dec 2019 15:24

Tgt Ion: 43 Resp: 6352

Ion Ratio Lower Upper

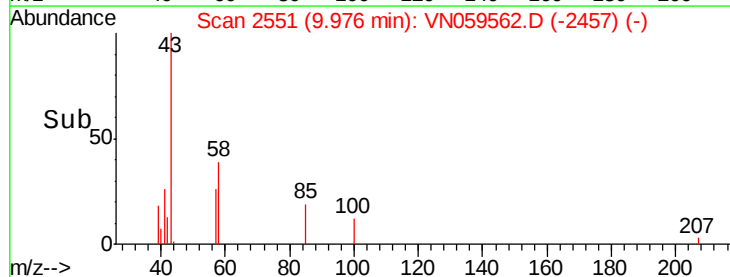
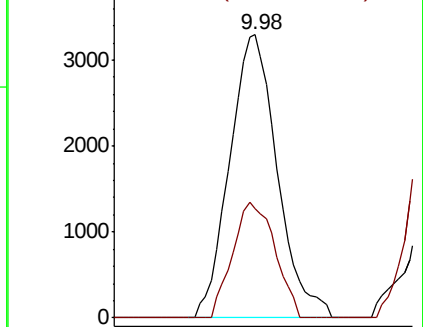
43 100

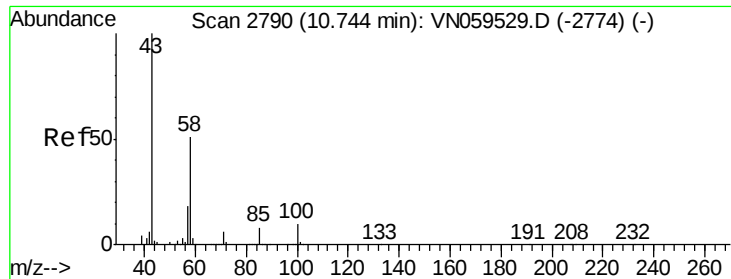
58 36.3 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

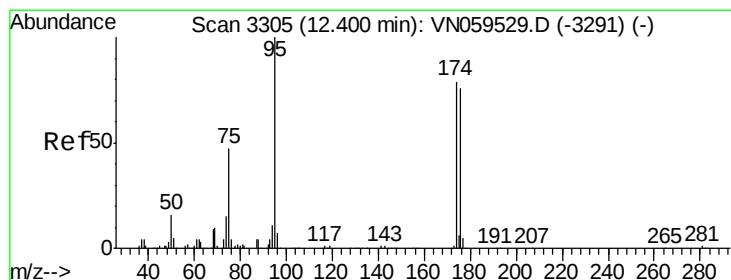
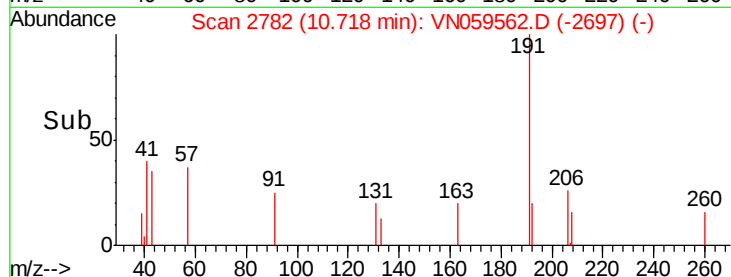
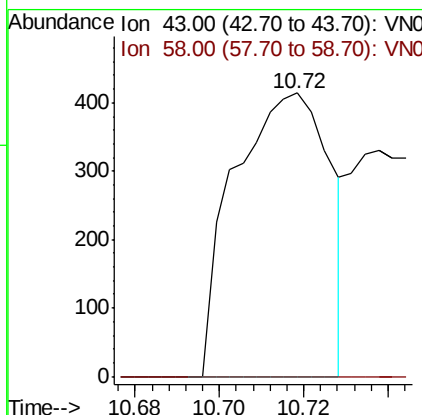
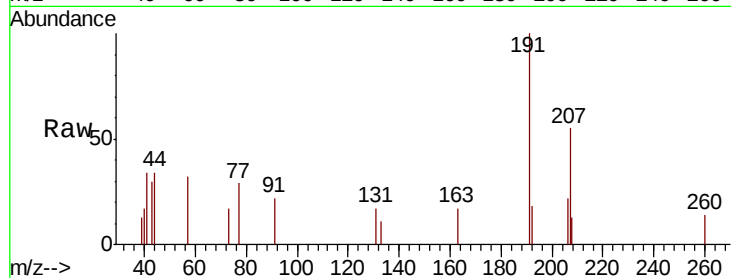




#59
2-Hexanone
Concen: 2.404 ug/l
RT: 10.72 min Scan# 2782
Delta R.T. -0.03 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

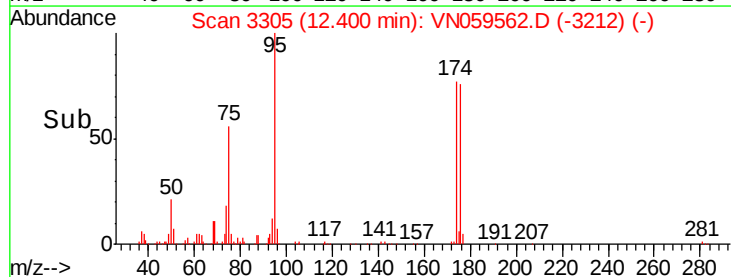
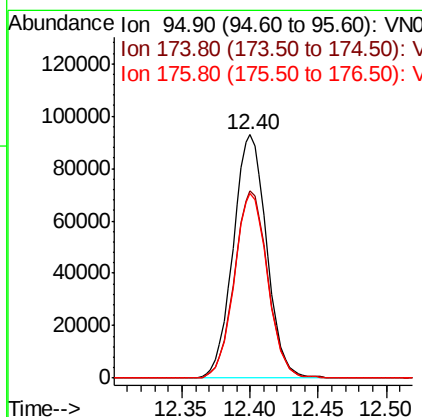
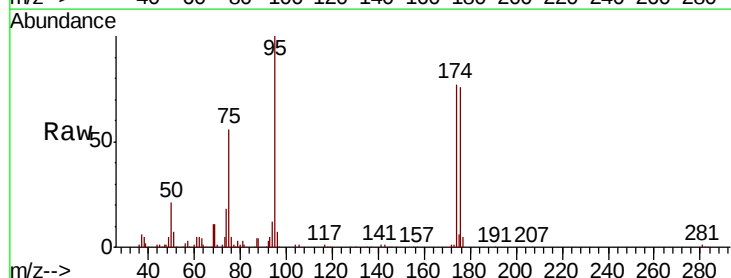
Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

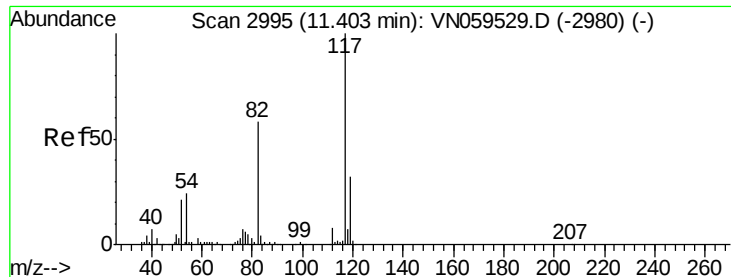
Tot Ion: 43 Resp: 655
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 44.102 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion: 95 Resp: 157966
Ion Ratio Lower Upper
95 100
174 76.7 0.0 158.0
176 75.4 0.0 155.4

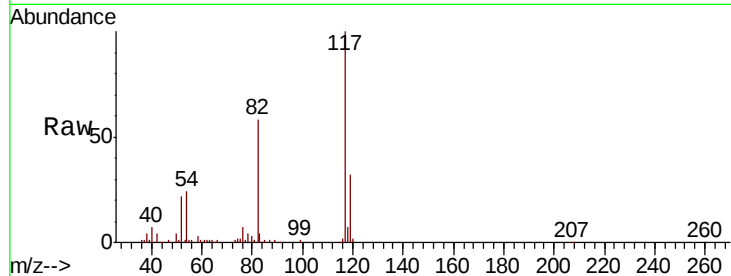




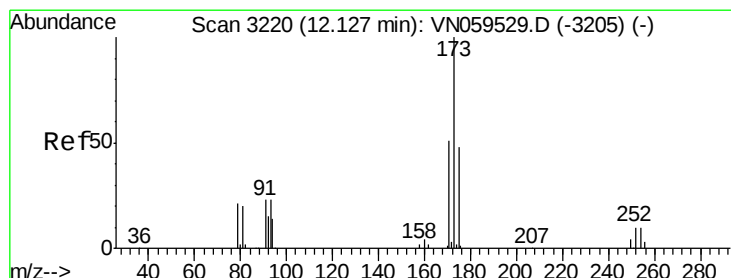
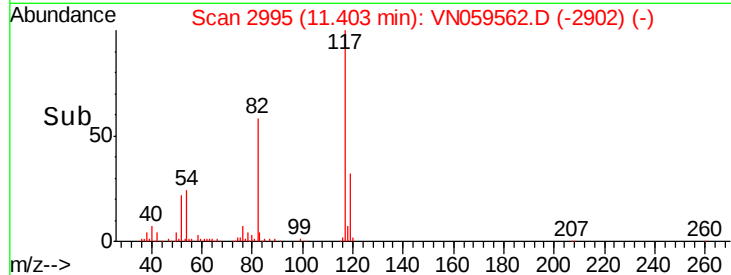
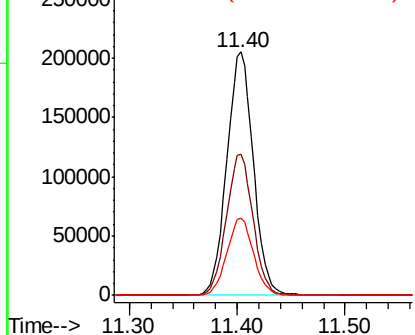
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion:117 Resp: 351941
Ion Ratio Lower Upper
117 100
82 57.9 46.5 69.7
119 31.8 25.2 37.8

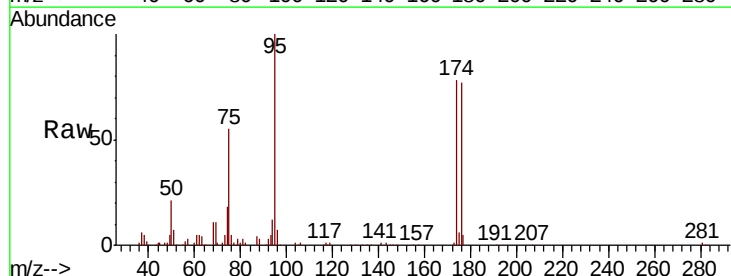


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

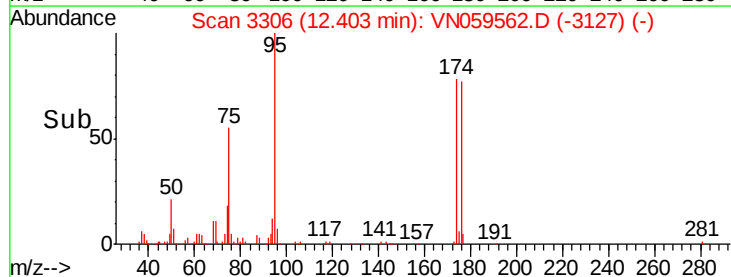
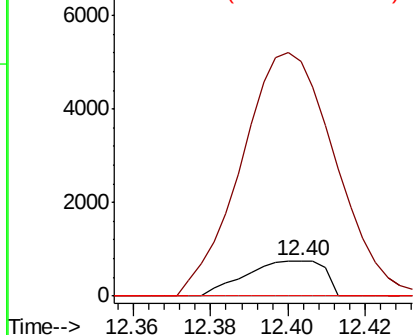


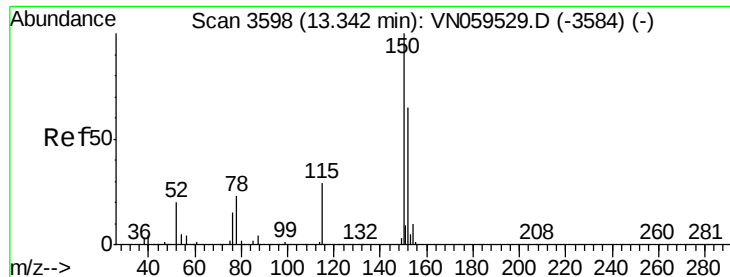
#71
Bromoform
Concen: 0.490 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion:173 Resp: 1061
Ion Ratio Lower Upper
173 100
175 745.5 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059562.D

Acq: 11 Dec 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

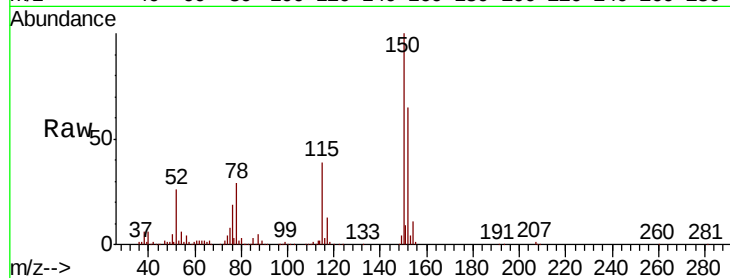
Tot Ion:152 Resp: 141472

Ion Ratio Lower Upper

152 100

115 59.7 29.4 88.2

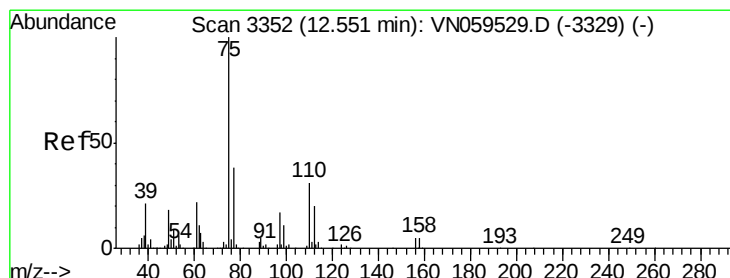
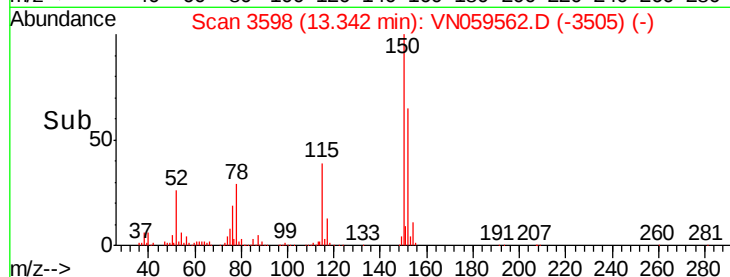
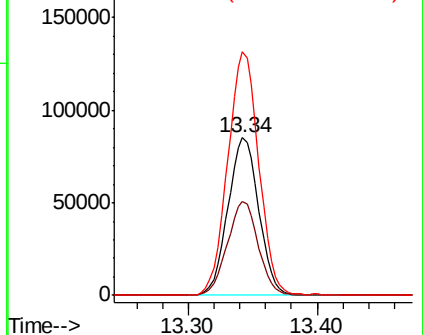
150 154.8 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.776 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059562.D

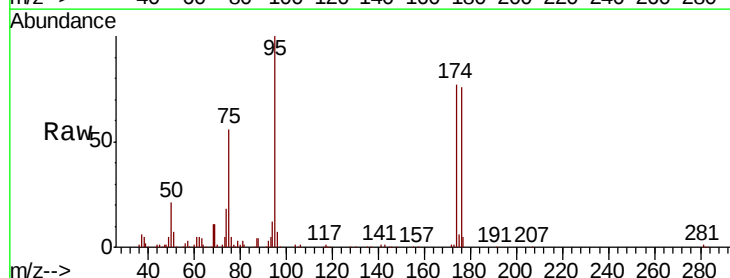
Acq: 11 Dec 2019 15:24

Tgt Ion: 75 Resp: 86017

Ion Ratio Lower Upper

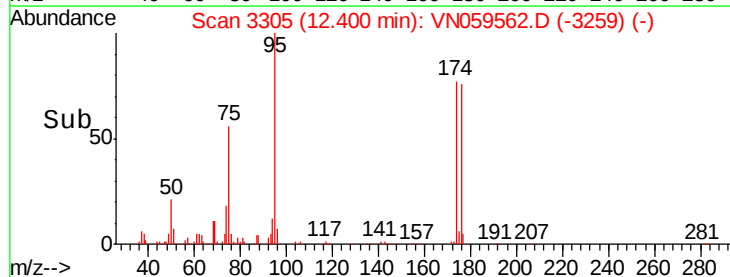
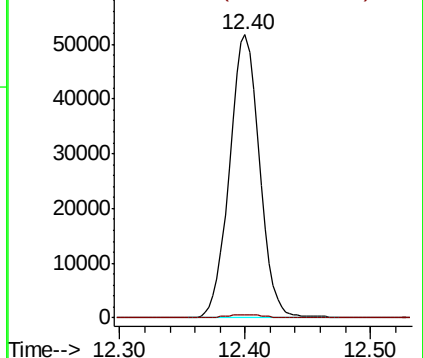
75 100

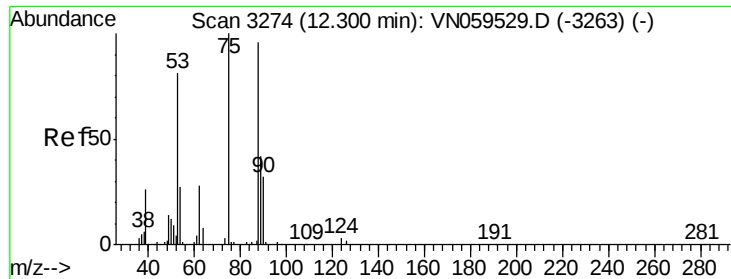
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 63.969 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059562.D

Acq: 11 Dec 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

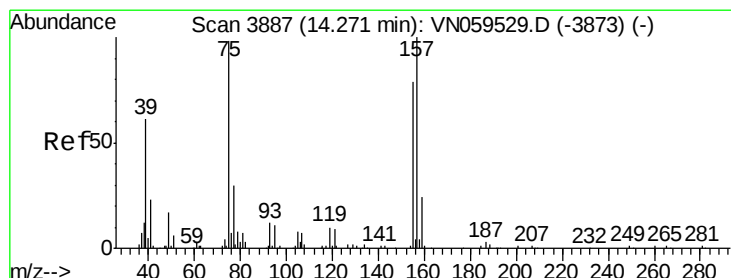
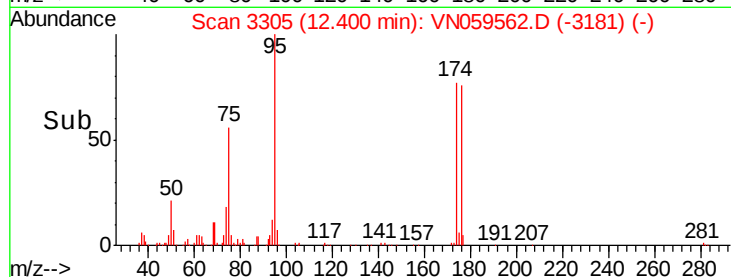
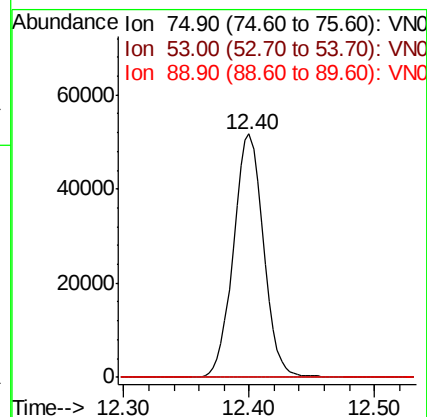
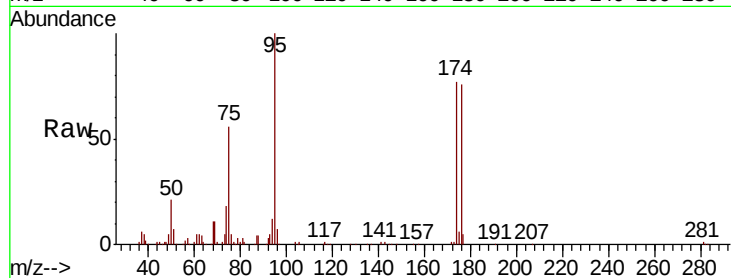
Tot Ion: 75 Resp: 86017

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

89 0.0 35.5 53.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.204 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.01 min

Lab File: VN059562.D

Acq: 11 Dec 2019 15:24

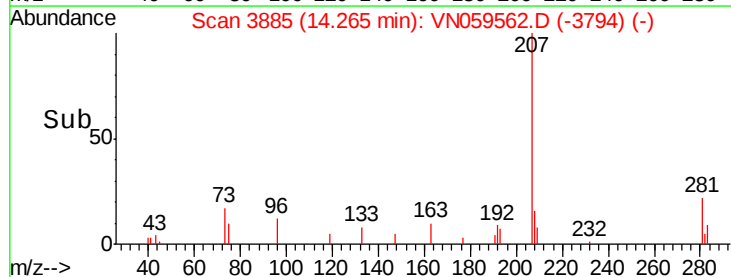
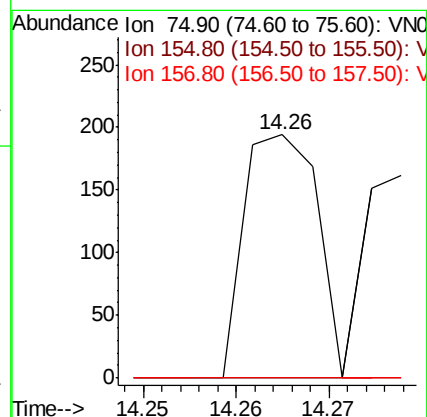
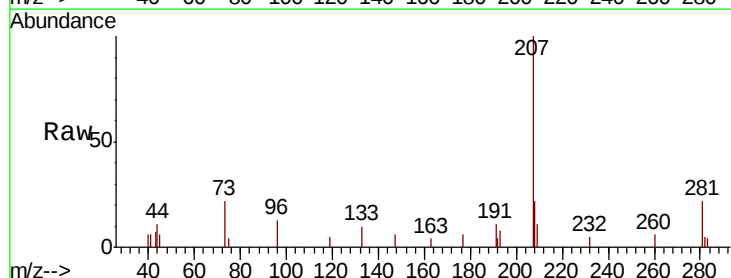
Tgt Ion: 75 Resp: 106

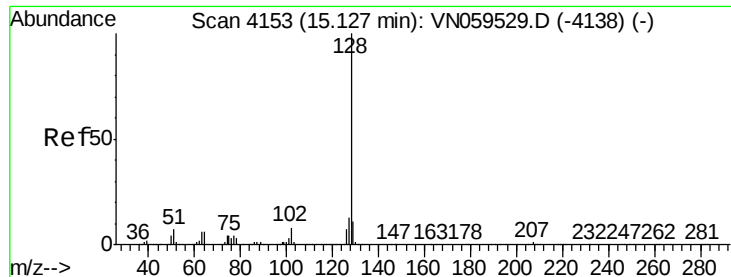
Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

157 0.0 51.1 153.3#

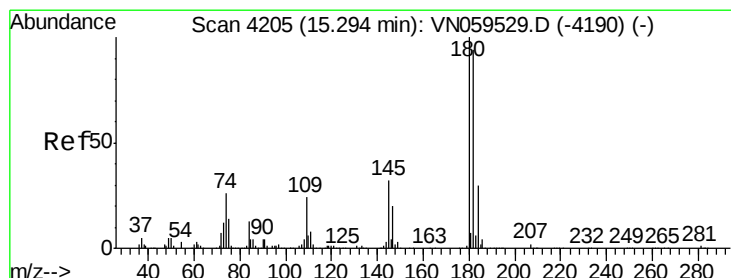
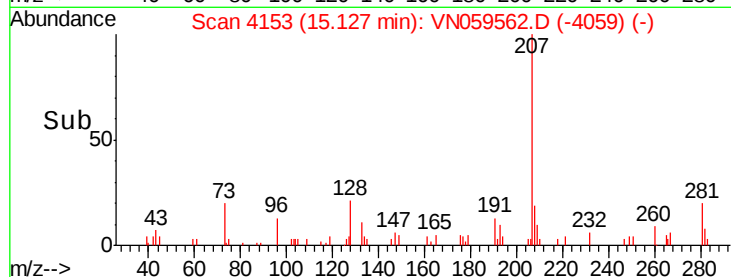
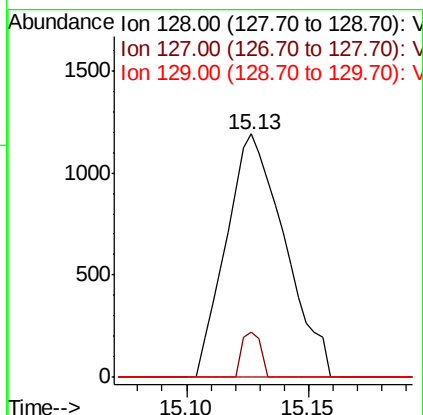
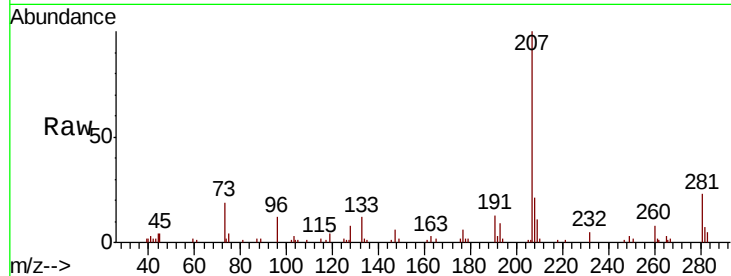




#95
Naphthalene
Concen: 0.214 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion:128 Resp: 1979
Ion Ratio Lower Upper
128 100
127 5.9 10.2 15.4#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 2.498 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN059562.D
Acq: 11 Dec 2019 15:24

Tgt Ion:180 Resp: 285
Ion Ratio Lower Upper
180 100
182 0.0 47.1 141.4#
145 51.9 15.8 47.4#

