

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011520\
 Data File : VN059714.D
 Acq On : 15 Jan 2020 12:13
 Operator : JC/MD
 Sample : PB126097TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126097TB

Quant Time: Jan 16 03:42:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	204878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	300689	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	256590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	107050	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	102482	45.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.08%	
35) Dibromofluoromethane	7.56	113	90312	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
50) Toluene-d8	10.08	98	341669	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	12.40	95	118328	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	

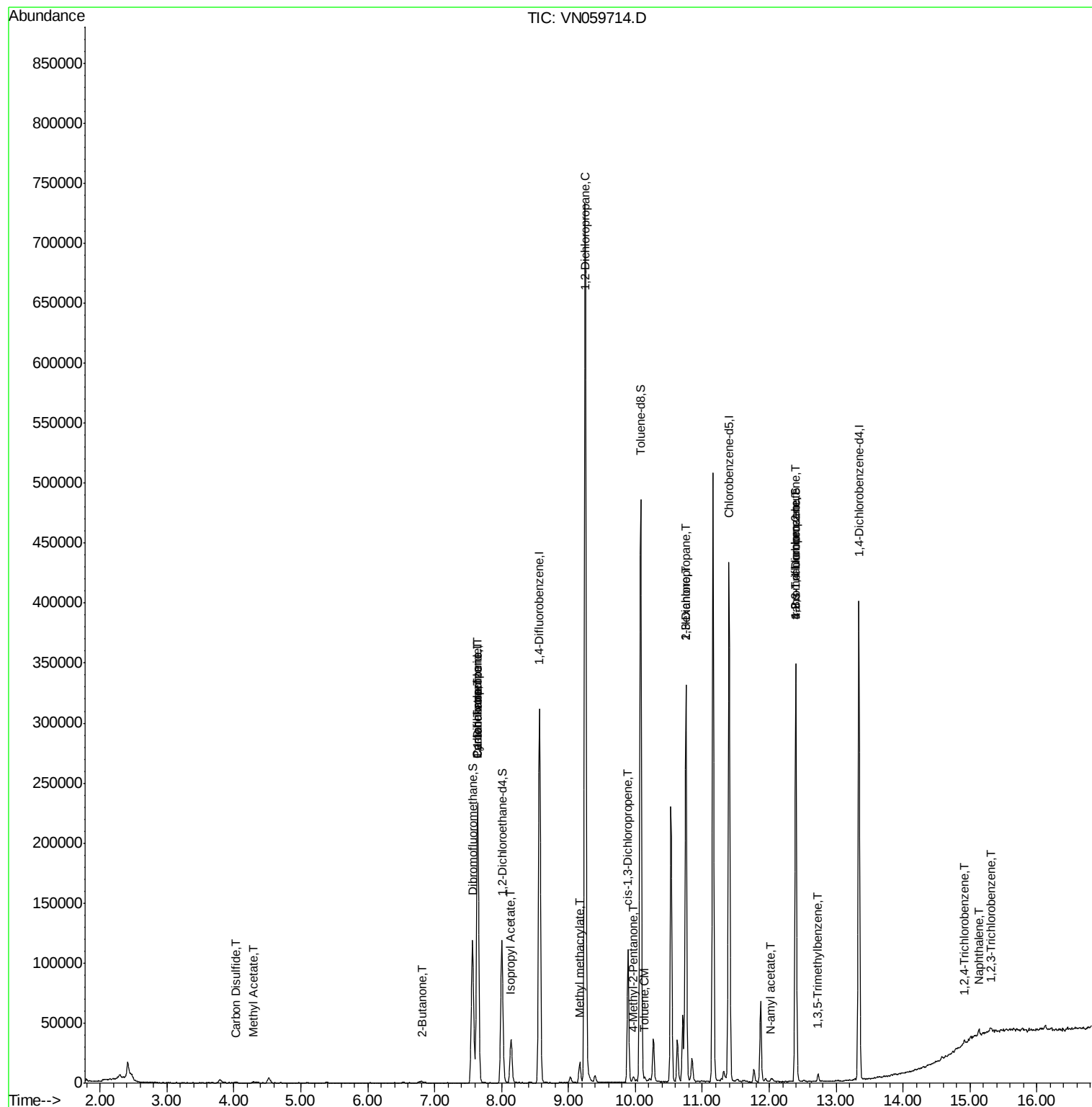
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4714	Below Cal		92
17) Carbon Disulfide	4.03	76	1271	0.238	ug/l #	75
18) Methyl Acetate	4.30	43	2323	0.874	ug/l #	65
20) Methylene Chloride	4.52	84	1780	Below Cal		88
25) 2-Butanone	6.81	43	1714	1.330	ug/l	92
31) Cyclohexane	7.64	56	3710	1.102	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13663	5.218	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18436	6.472	ug/l #	16
43) Isopropyl Acetate	8.14	43	44640	10.567	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	831	0.430	ug/l #	44
48) Methyl methacrylate	9.17	41	2518	1.333	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2821	1.155	ug/l	96
52) Toluene	10.14	92	1683	0.341	ug/l	87
54) cis-1,3-Dichloropropene	9.89	75	21597	6.692	ug/l #	54
57) 1,3-Dichloropropane	10.75	76	3659	1.180	ug/l #	42
59) 2-Hexanone	10.75	43	46742	25.982	ug/l #	56
74) N-amyl acetate	12.03	43	2458	0.807	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	57396	31.859	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3910	0.592	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	57396	68.418	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.25	75	134	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	1028	0.501	ug/l #	89
95) Naphthalene	15.13	128	4162	0.713	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	1345	0.674	ug/l	97

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

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QLast Update : Tue Jan 14 08:58:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

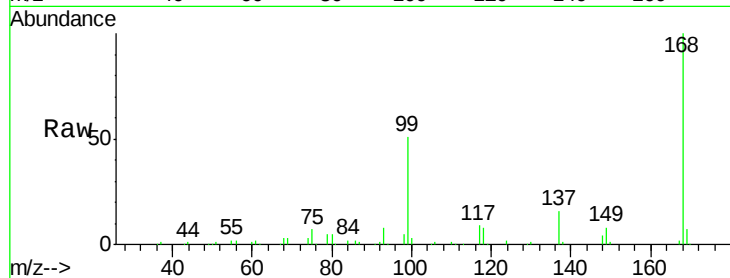
PB126097TB

Tgt Ion:168 Resp: 204878

Ion Ratio Lower Upper

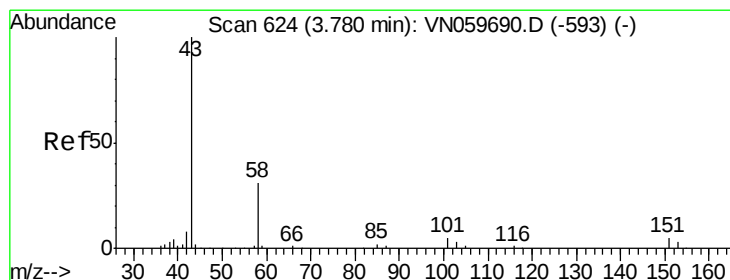
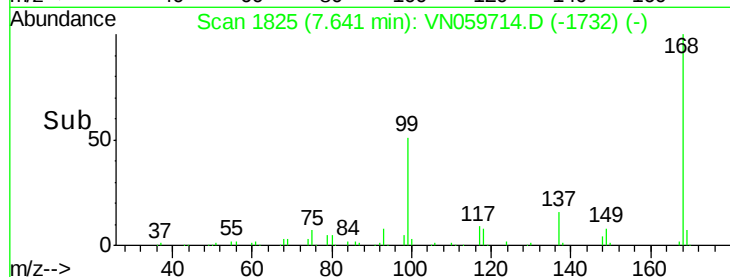
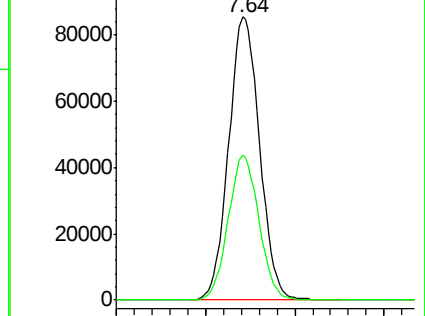
168 100

99 51.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059714.D

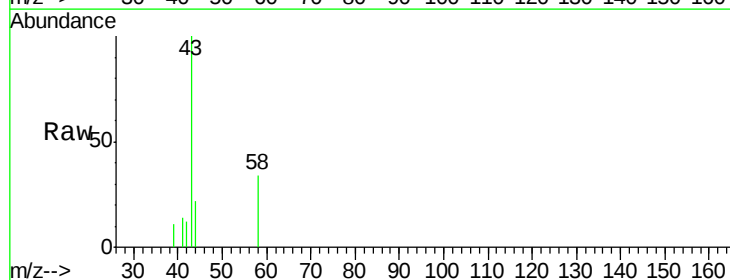
Acq: 15 Jan 2020 12:13

Tgt Ion: 43 Resp: 4714

Ion Ratio Lower Upper

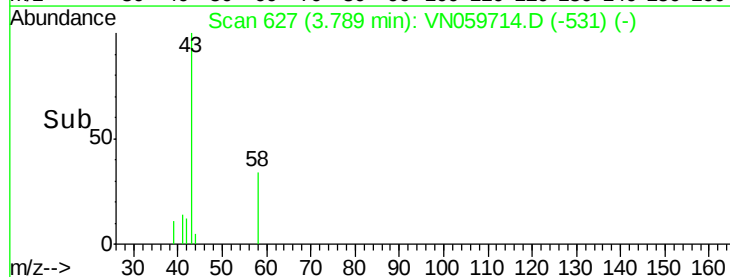
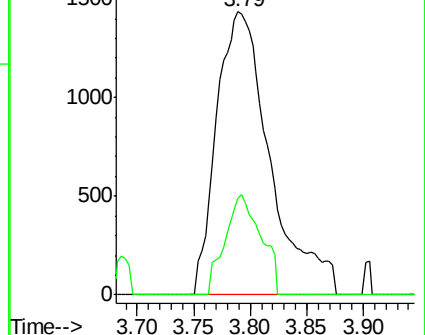
43 100

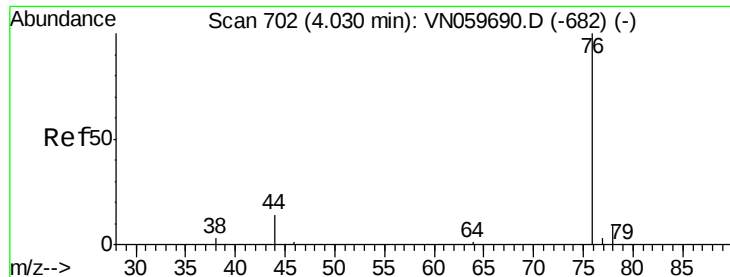
58 33.9 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

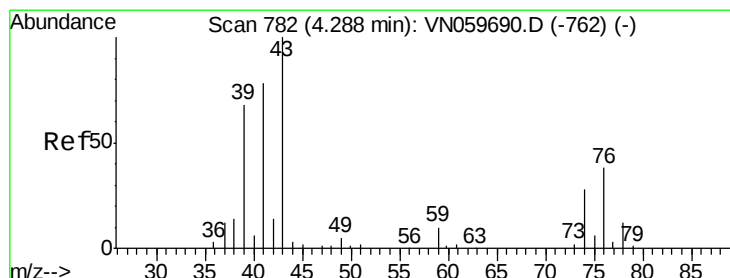
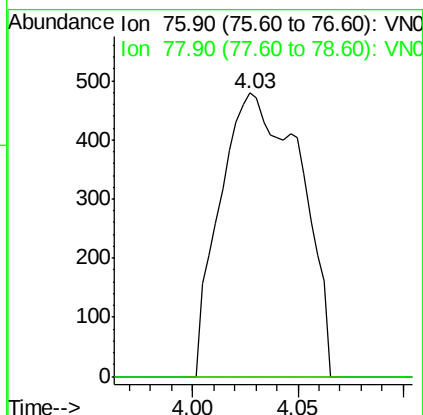
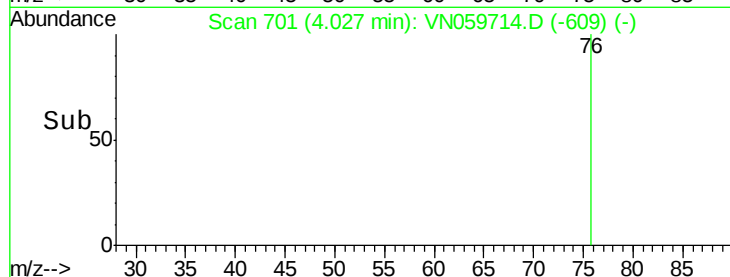
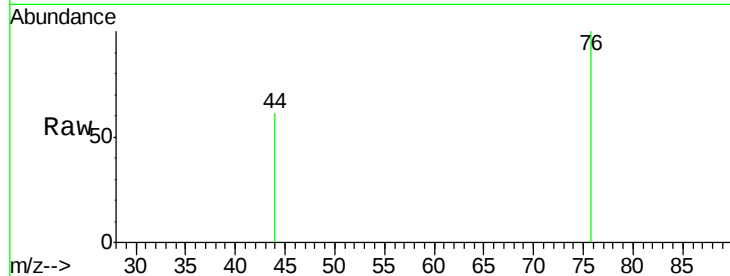




#17
Carbon Disulfide
Concen: 0.238 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

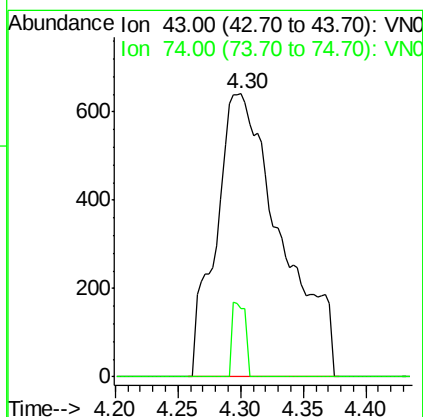
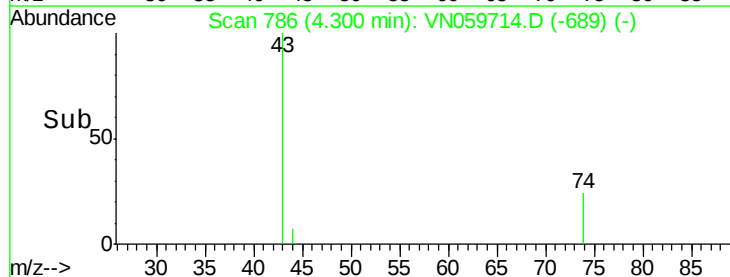
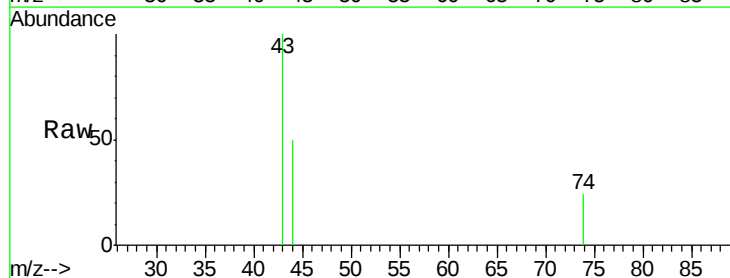
Instrument :
MSVOA_N
ClientSampled :
PB126097TB

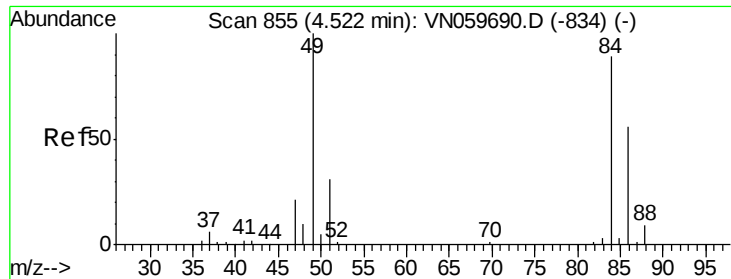
Tgt Ion: 76 Resp: 1271
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.874 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

Tgt Ion: 43 Resp: 2323
Ion Ratio Lower Upper
43 100
74 5.4 17.5 26.3#

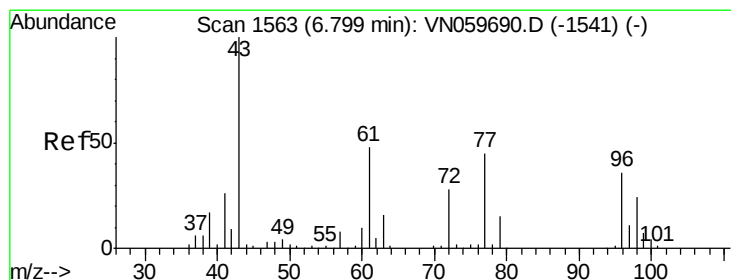
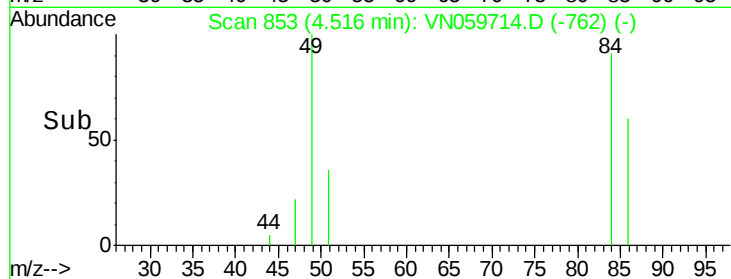
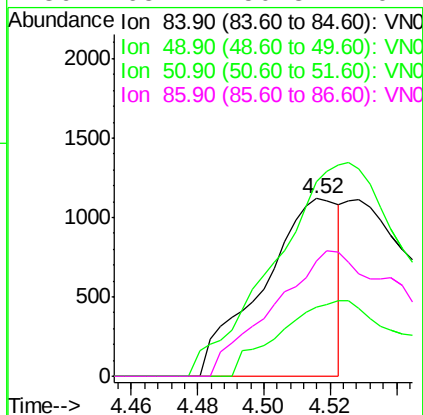
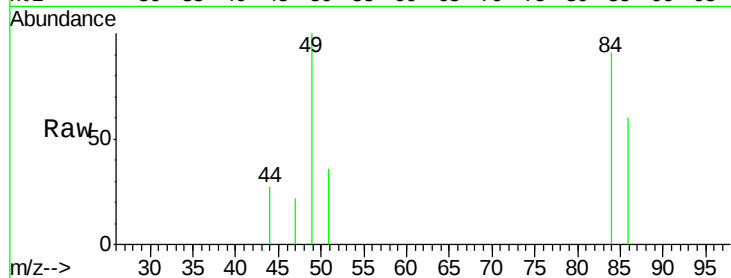




#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

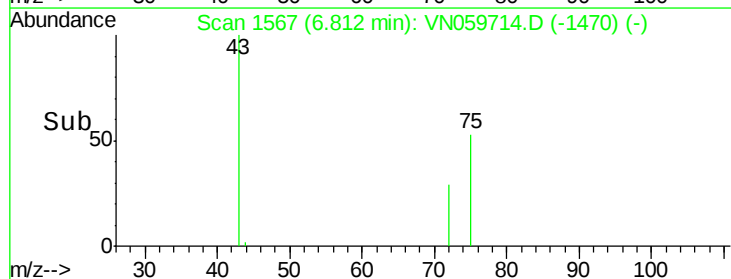
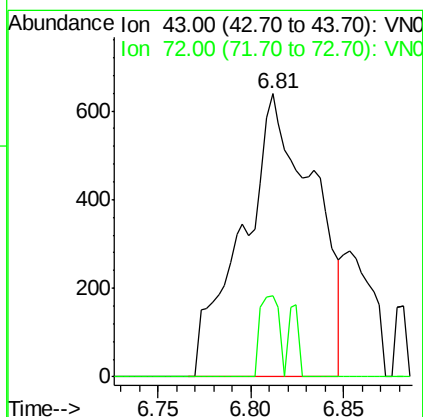
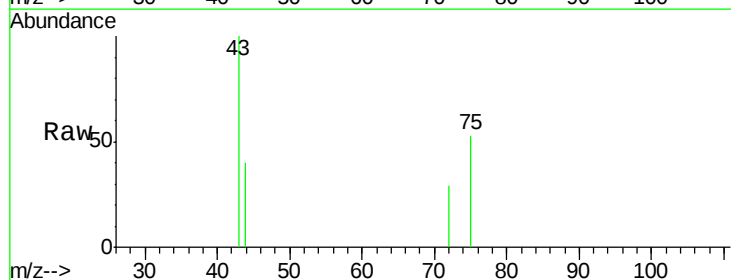
Instrument :
MSVOA_N
ClientSampled :
PB126097TB

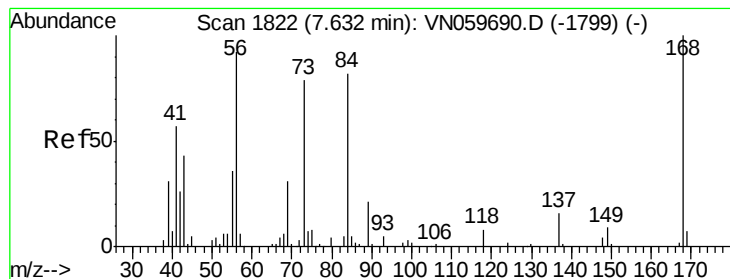
Tgt Ion:	84	Resp:	1780
Ion	Ratio	Lower	Upper
84	100		
49	109.4	106.6	160.0
51	39.2	31.9	47.9
86	65.2	50.8	76.2



#25
2-Butanone
Concen: 1.330 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

Tgt Ion:	43	Resp:	1714
Ion	Ratio	Lower	Upper
43	100		
72	28.7	19.9	29.9





#31

Cyclohexane

Concen: 1.102 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

PB126097TB

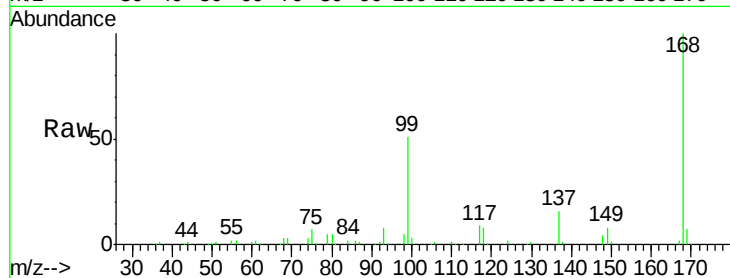
Tgt Ion: 56 Resp: 3710

Ion Ratio Lower Upper

56 100

69 174.4 26.5 39.7#

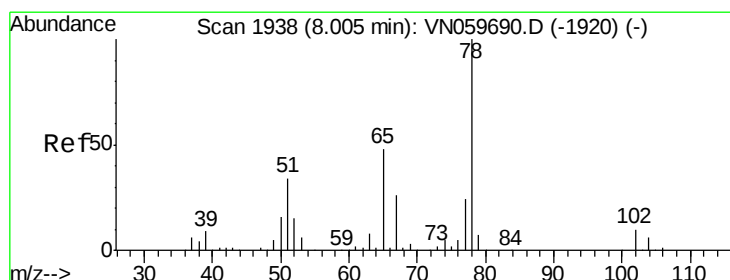
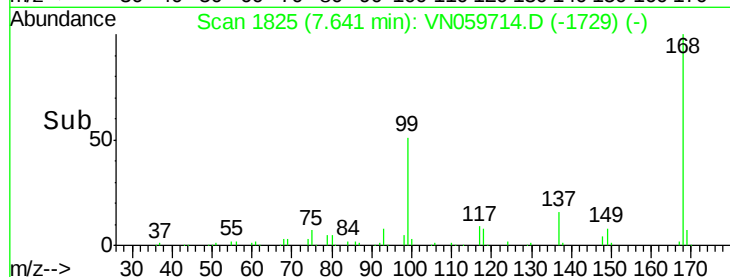
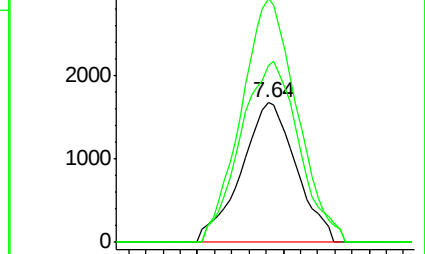
84 126.5 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059714.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059714.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059714.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 45.043 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059714.D

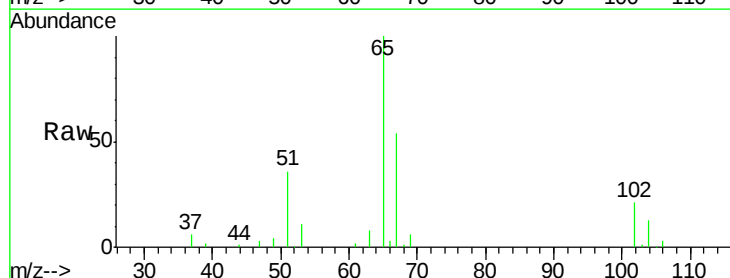
Acq: 15 Jan 2020 12:13

Tgt Ion: 65 Resp: 102482

Ion Ratio Lower Upper

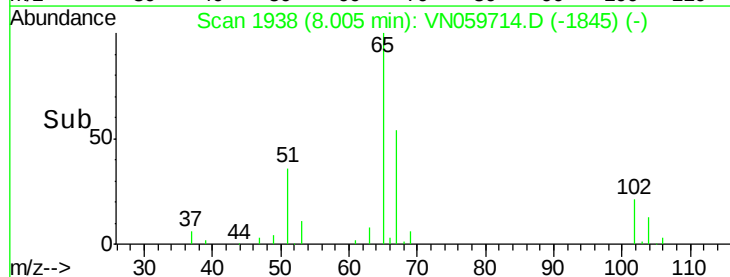
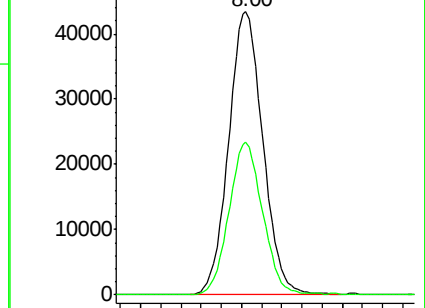
65 100

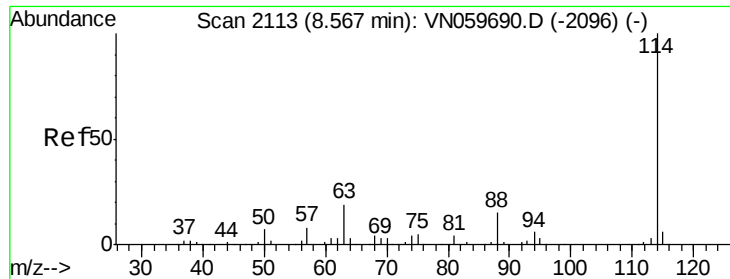
67 53.0 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059714.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059714.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

PB126097TB

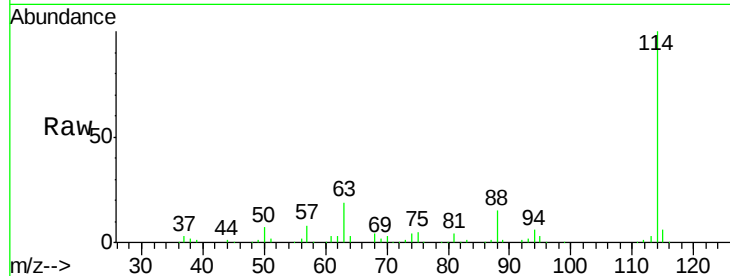
Tgt Ion:114 Resp: 300689

Ion Ratio Lower Upper

114 100

63 18.6 0.0 43.6

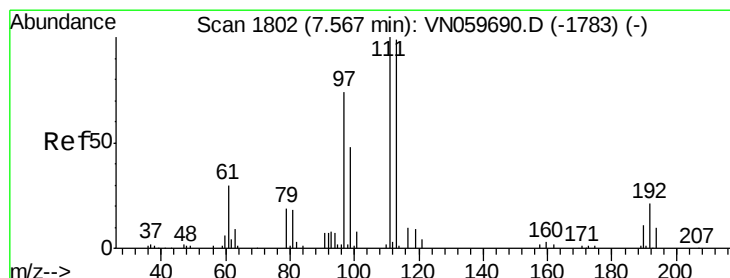
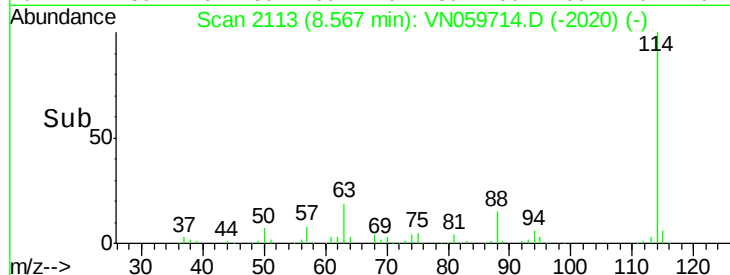
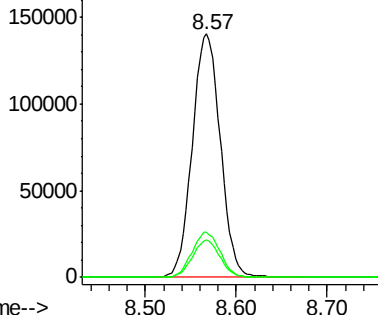
88 15.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.365 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

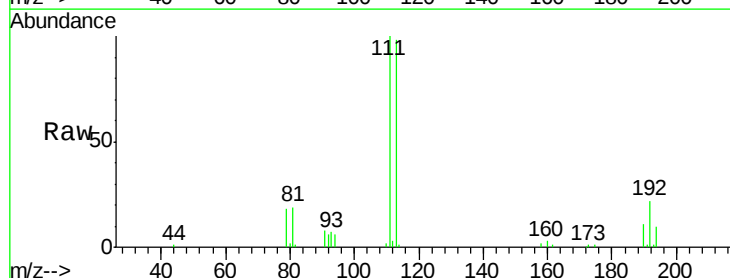
Tgt Ion:113 Resp: 90312

Ion Ratio Lower Upper

113 100

111 104.5 83.5 125.3

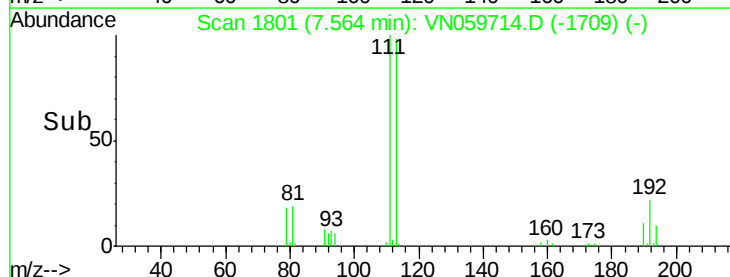
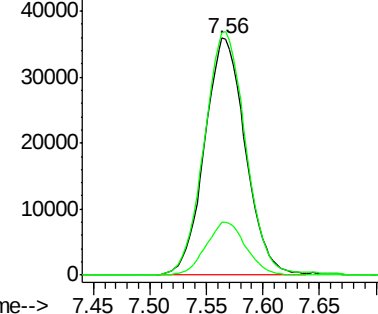
192 21.8 15.4 23.2

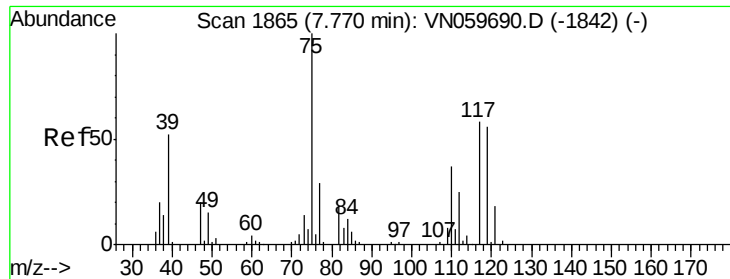


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

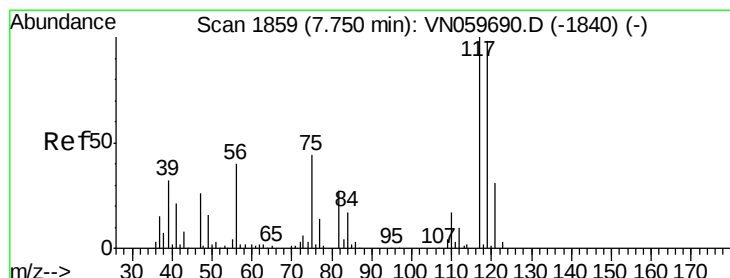
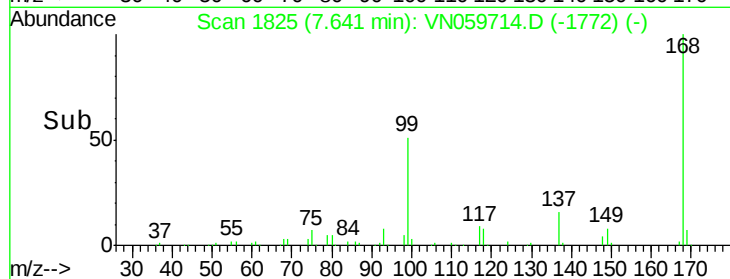
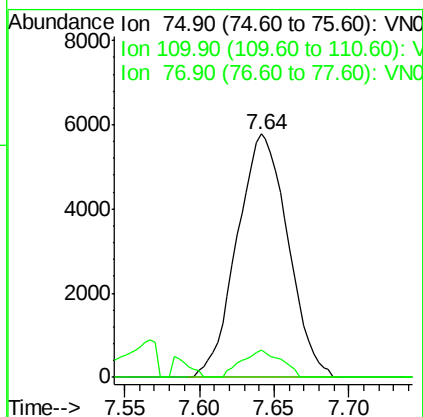
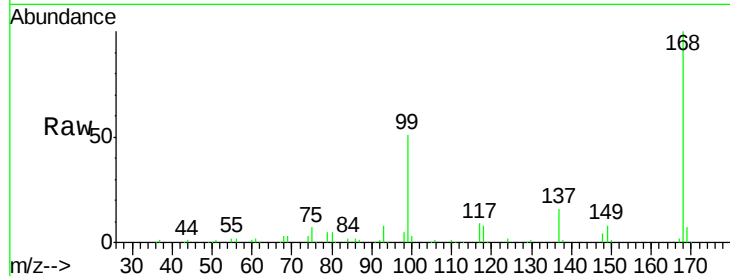




#36
 1,1-Dichloropropene
 Concen: 5.218 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

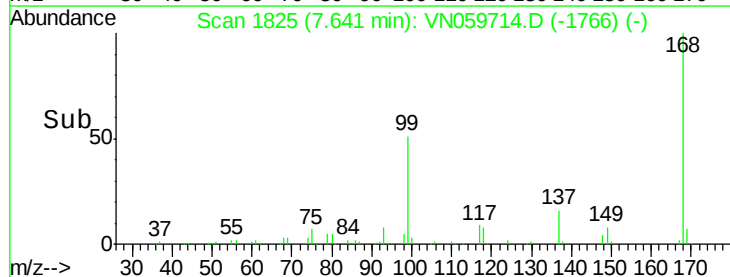
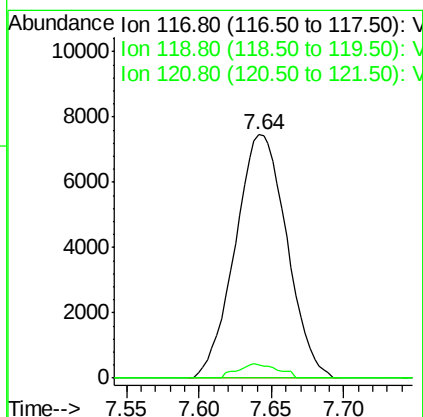
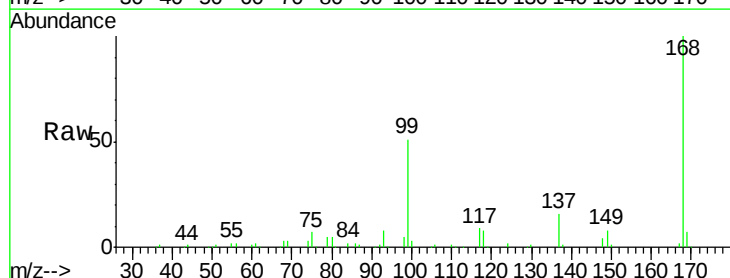
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126097TB

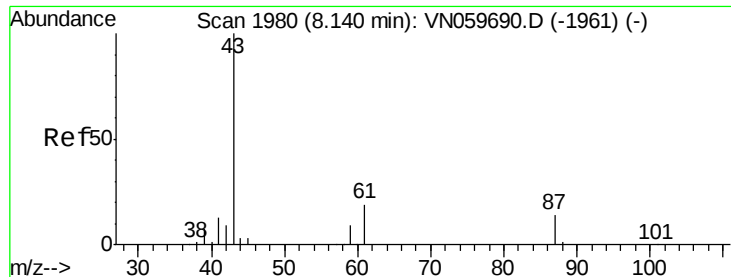
Tgt Ion: 75 Resp: 13663
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.6 49.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.472 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

Tgt Ion: 117 Resp: 18436
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.5 114.7#
 121 0.0 25.1 37.7#

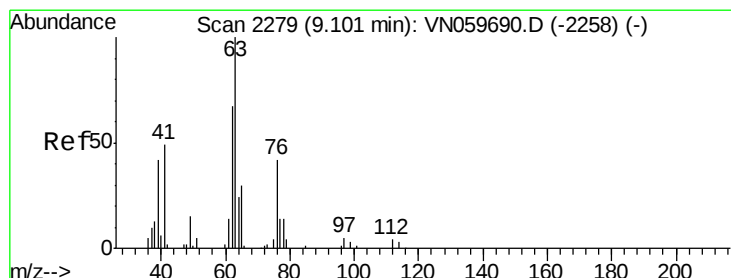
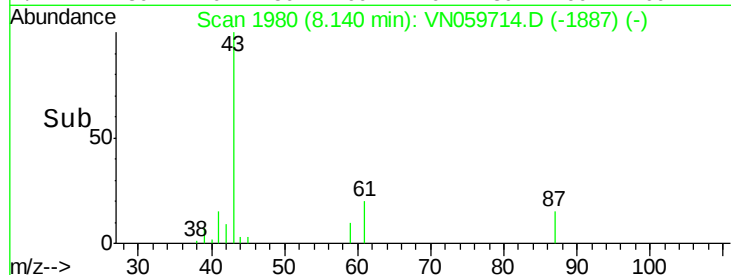
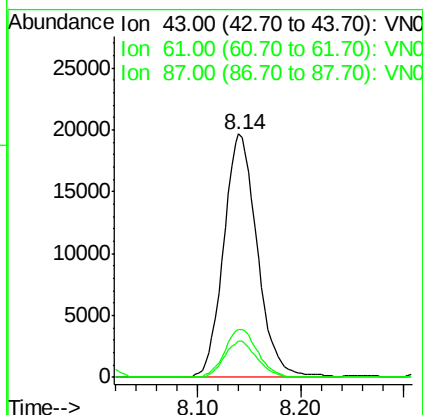
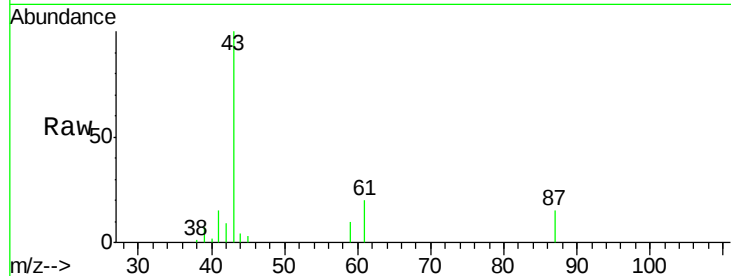




#43
Isopropyl Acetate
Concen: 10.567 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

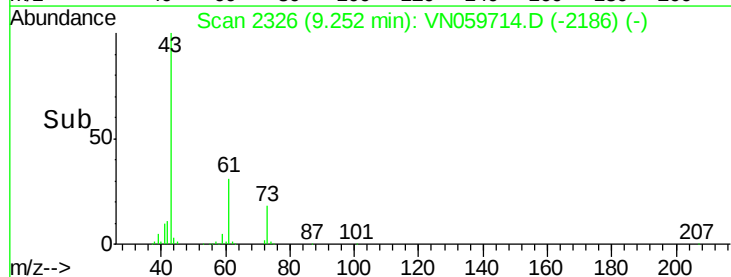
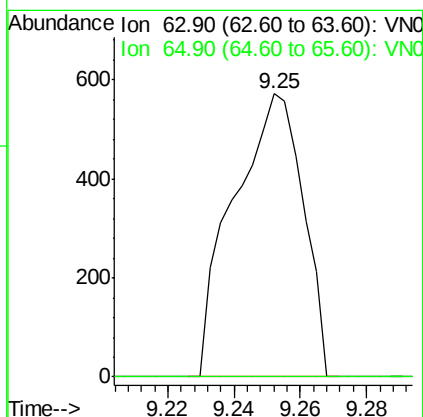
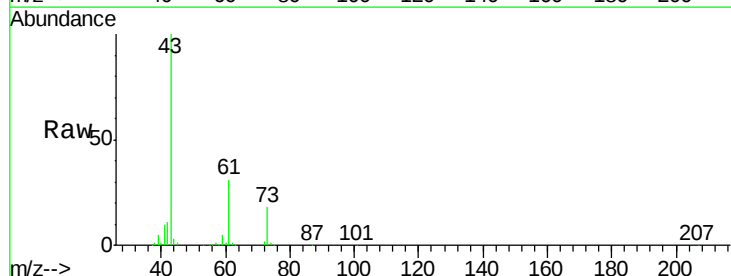
Instrument :
MSVOA_N
ClientSampled :
PB126097TB

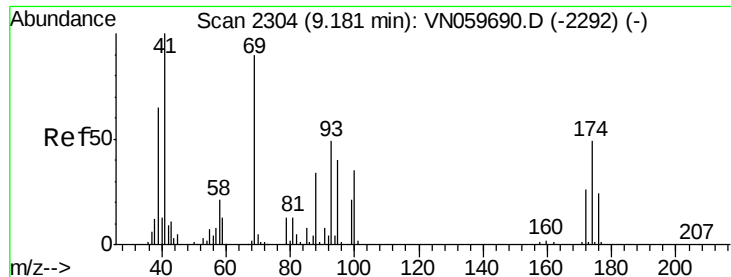
Tgt Ion: 43 Resp: 44640
Ion Ratio Lower Upper
43 100
61 19.3 20.2 30.2#
87 14.2 9.5 14.3



#45
1,2-Dichloropropane
Concen: 0.430 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.15 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

Tgt Ion: 63 Resp: 831
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#

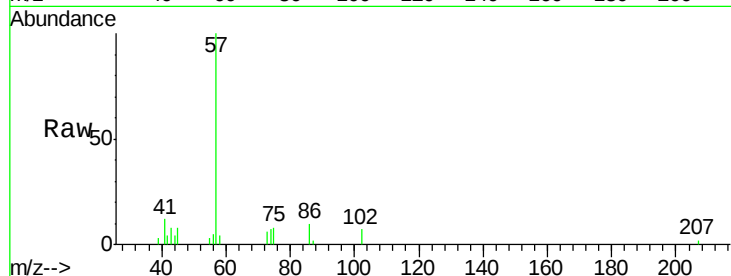




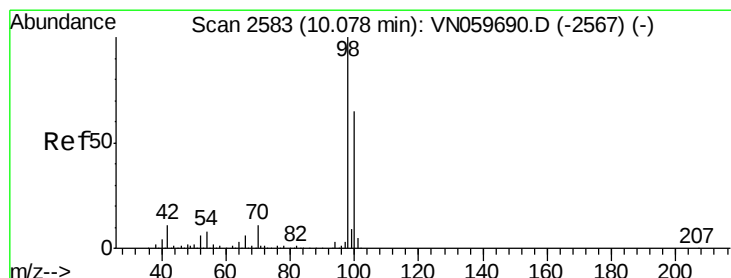
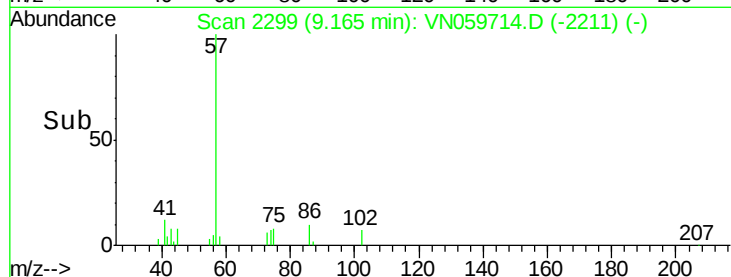
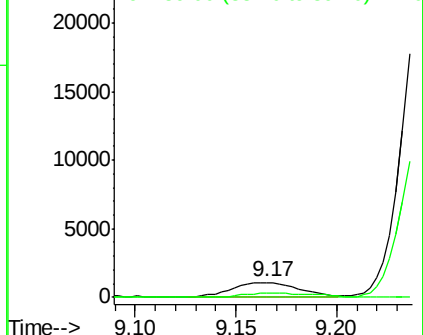
#48
Methyl methacrylate
Concen: 1.333 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

Instrument :
MSVOA_N
ClientSampleId :
PB126097TB

Tgt Ion: 41 Resp: 2518
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

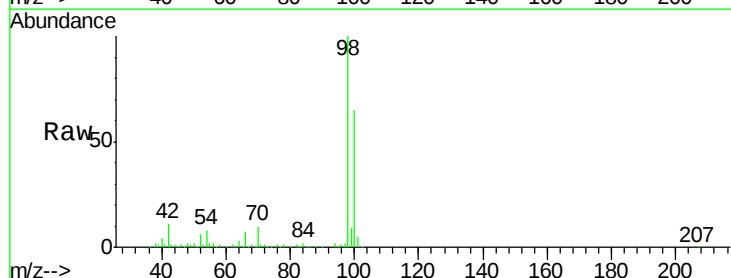


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

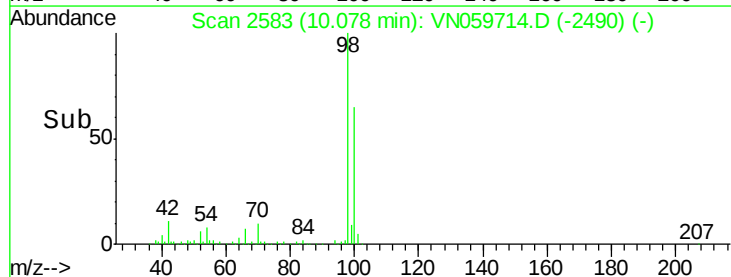
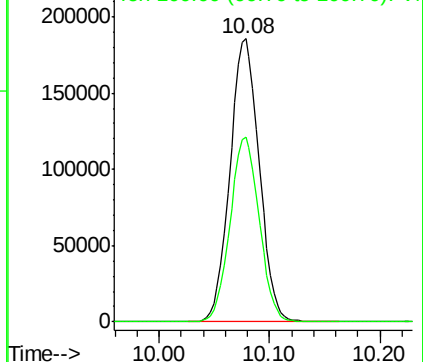


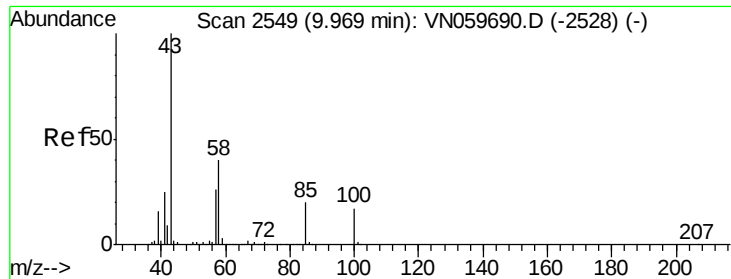
#50
Toluene-d8
Concen: 49.178 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

Tgt Ion: 98 Resp: 341669
Ion Ratio Lower Upper
98 100
100 64.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

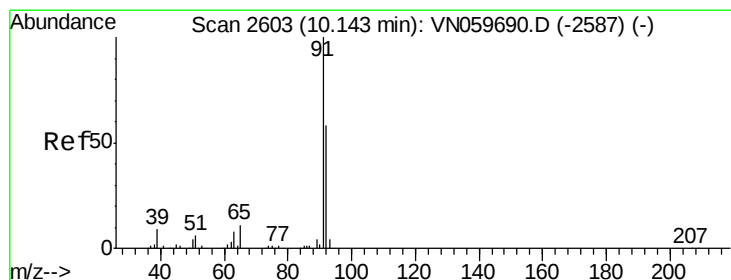
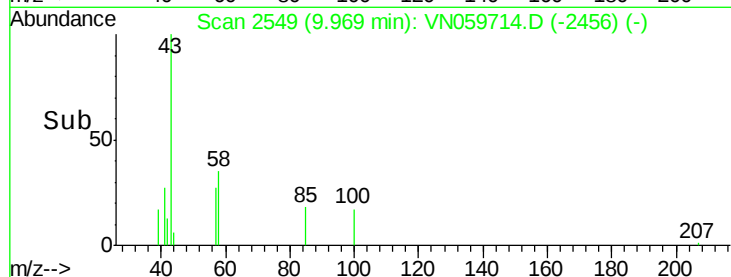
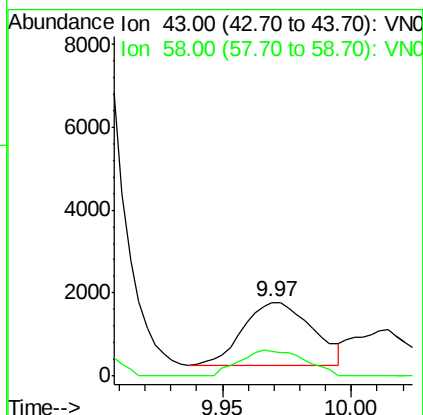
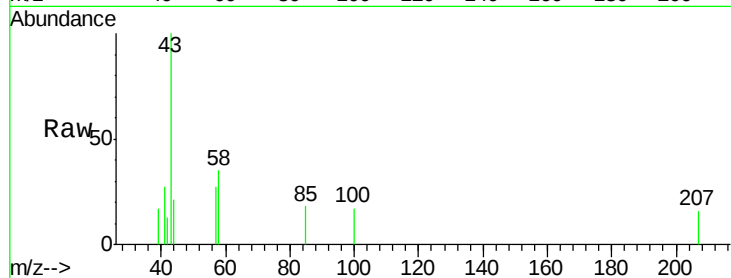




#51
 4-Methyl-2-Pentanone
 Concen: 1.155 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

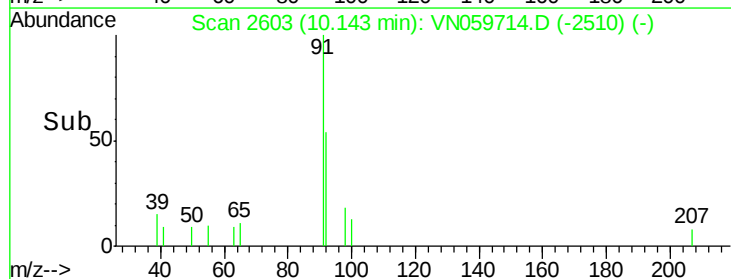
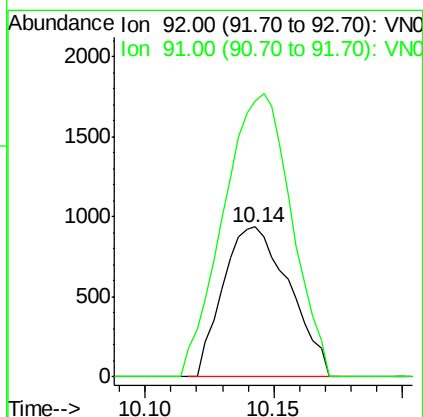
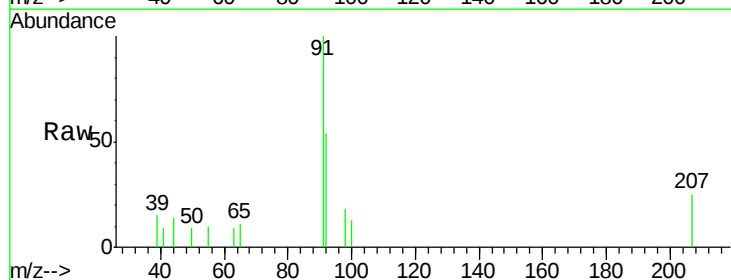
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126097TB

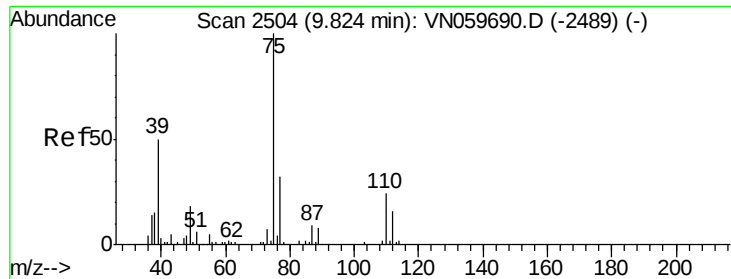
Tgt Ion: 43 Resp: 2821
 Ion Ratio Lower Upper
 43 100
 58 39.6 29.8 44.8



#52
 Toluene
 Concen: 0.341 ug/l
 RT: 10.14 min Scan# 2603
 Delta R.T. 0.00 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

Tgt Ion: 92 Resp: 1683
 Ion Ratio Lower Upper
 92 100
 91 193.0 140.4 210.6



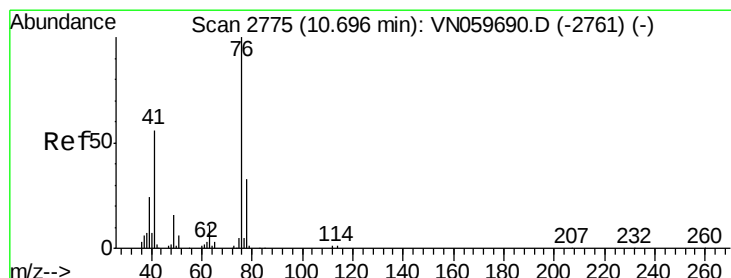
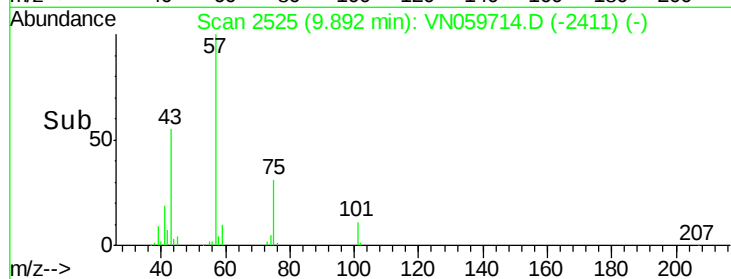
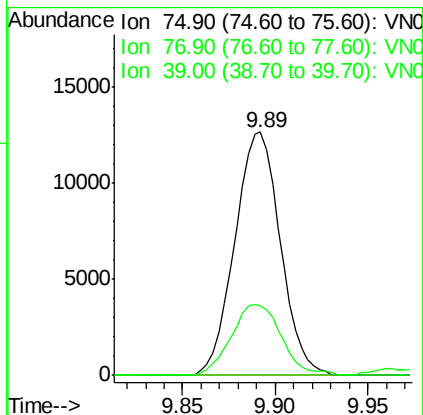
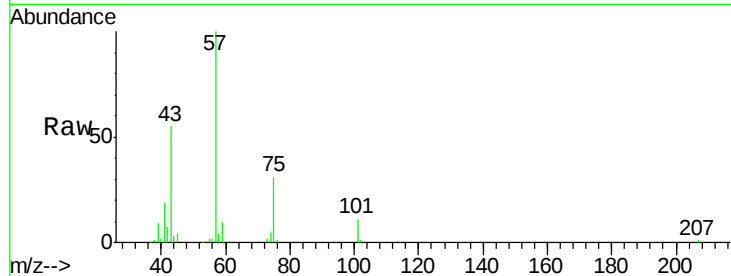


#54

cis-1,3-Dichloropropene
 Concen: 6.692 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126097TB

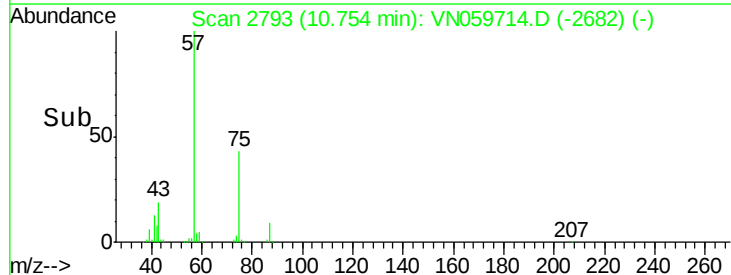
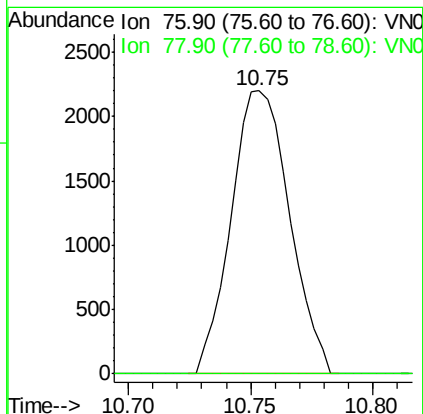
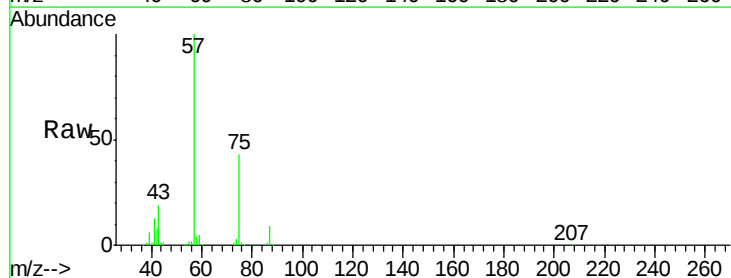
Tgt Ion: 75 Resp: 21597
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 28.3 46.1 69.1#

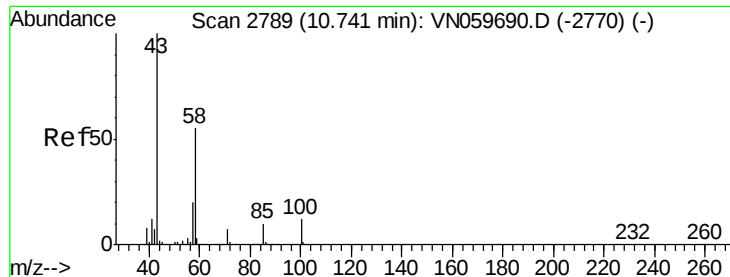


#57

1,3-Dichloropropane
 Concen: 1.180 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

Tgt Ion: 76 Resp: 3659
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

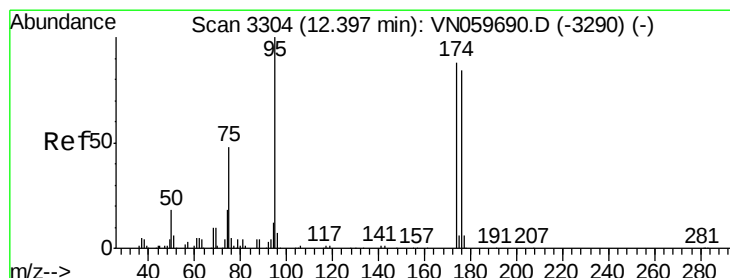
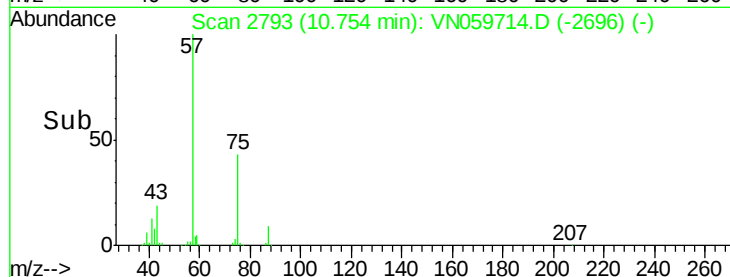
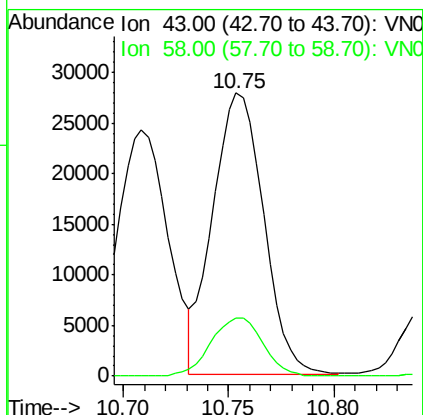
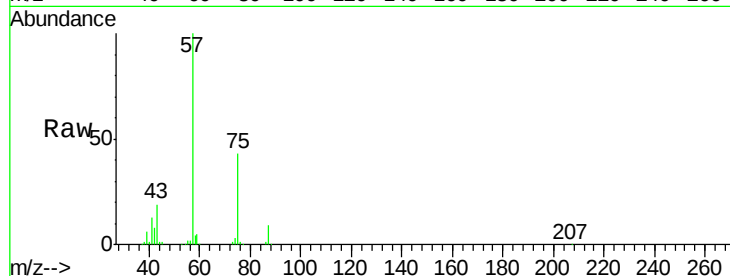




#59
2-Hexanone
Concen: 25.982 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

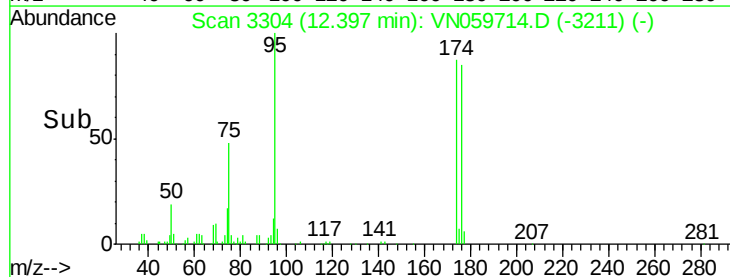
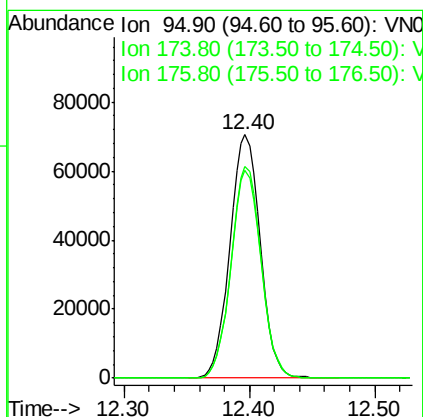
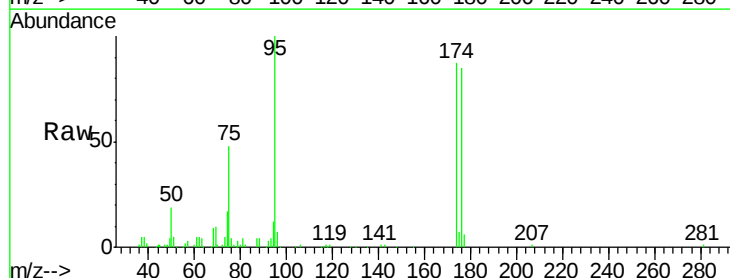
Instrument :
MSVOA_N
ClientSampleId :
PB126097TB

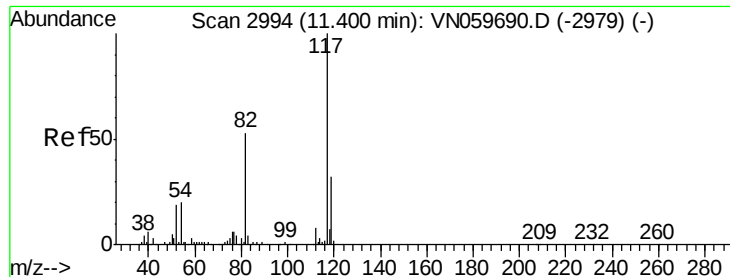
Tgt Ion: 43 Resp: 46742
Ion Ratio Lower Upper
43 100
58 21.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.245 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059714.D
Acq: 15 Jan 2020 12:13

Tgt Ion: 95 Resp: 118328
Ion Ratio Lower Upper
95 100
174 86.3 0.0 151.4
176 85.1 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

PB126097TB

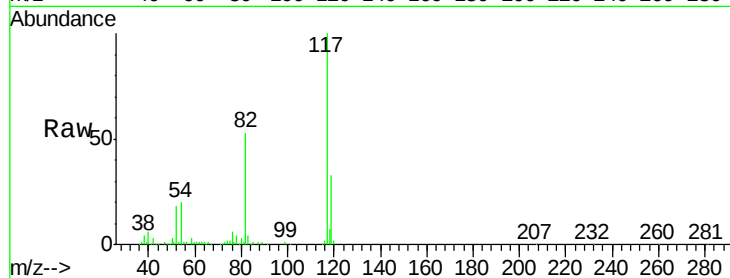
Tgt Ion:117 Resp: 256590

Ion Ratio Lower Upper

117 100

82 53.4 45.9 68.9

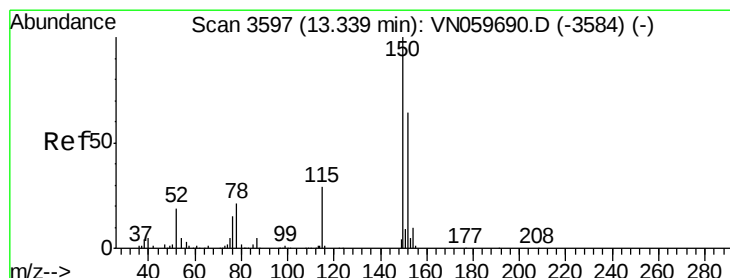
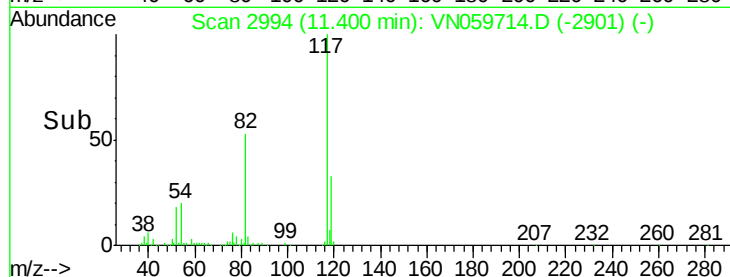
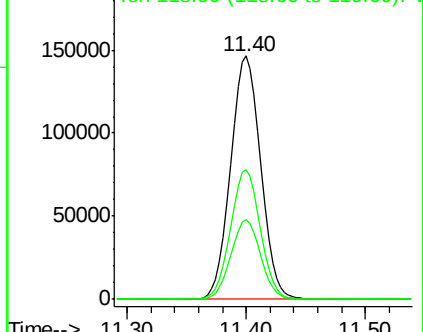
119 32.6 25.5 38.3



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

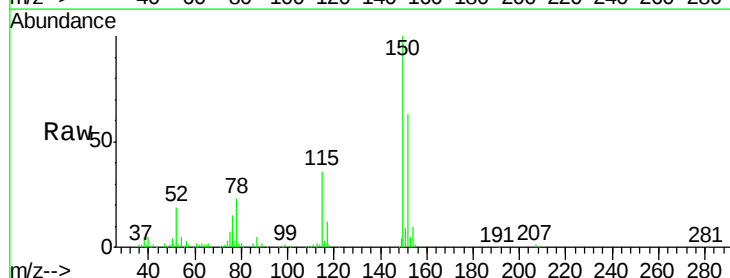
Tgt Ion:152 Resp: 107050

Ion Ratio Lower Upper

152 100

115 57.4 30.3 90.9

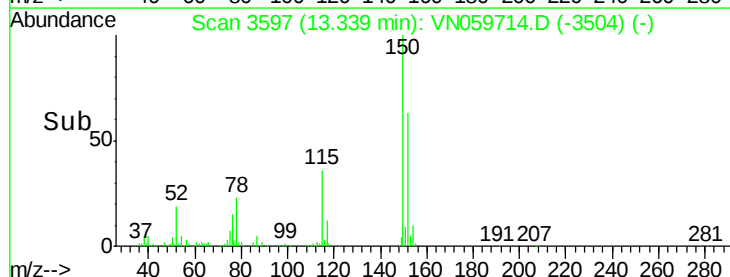
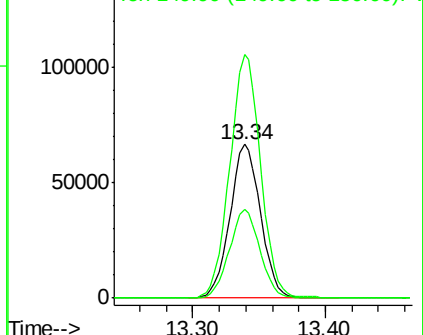
150 159.5 0.0 345.2

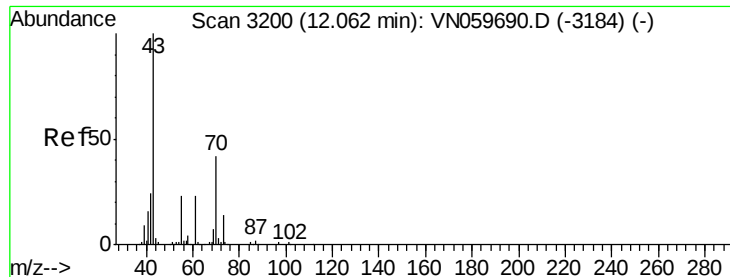


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.807 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampled :

PB126097TB

Tgt Ion: 43 Resp: 2458

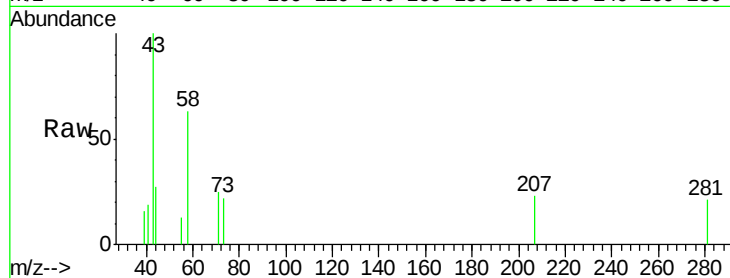
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 1.2 19.8 29.6#

61 0.0 18.3 27.5#

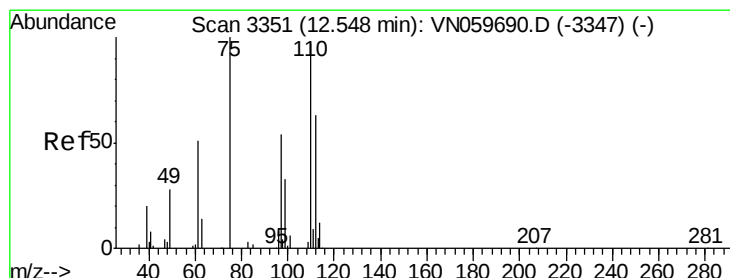
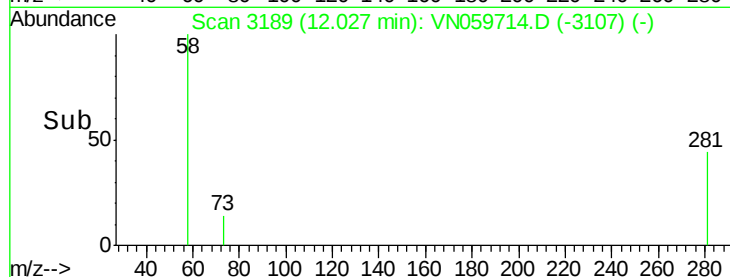
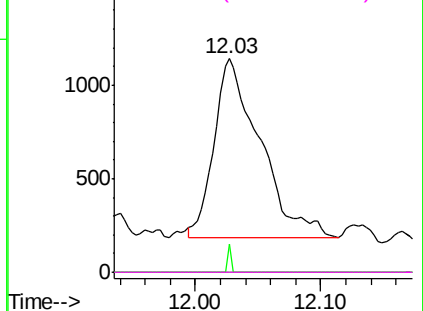


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 31.859 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059714.D

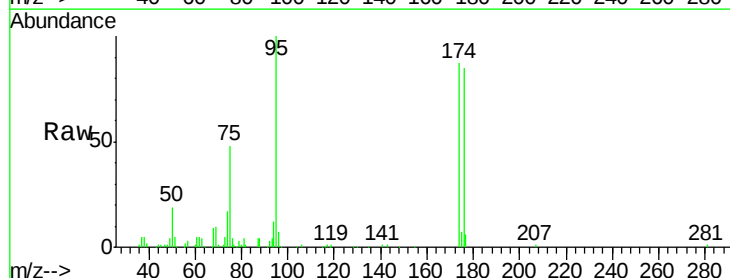
Acq: 15 Jan 2020 12:13

Tgt Ion: 75 Resp: 57396

Ion Ratio Lower Upper

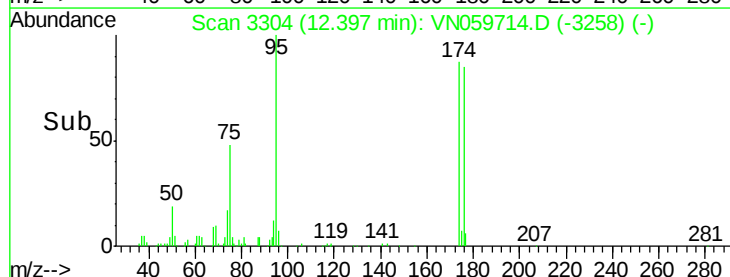
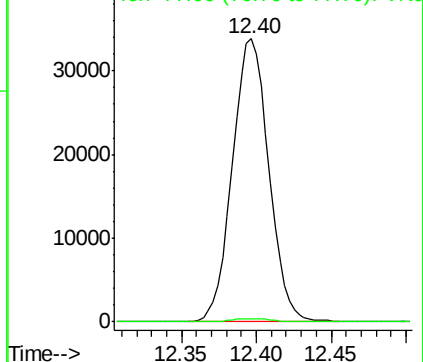
75 100

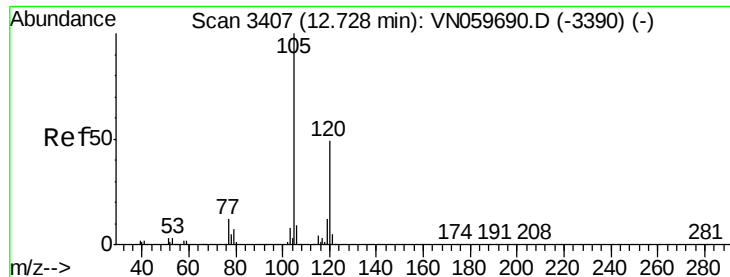
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.592 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampled :

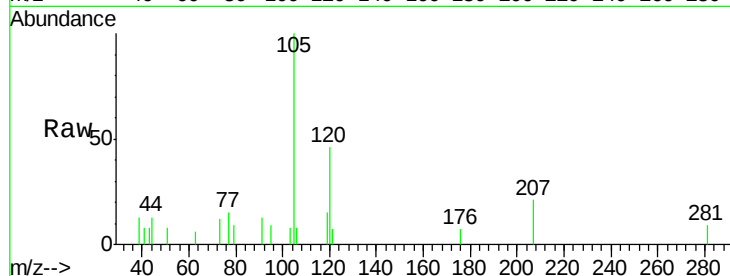
PB126097TB

Tgt Ion: 105 Resp: 3910

Ion Ratio Lower Upper

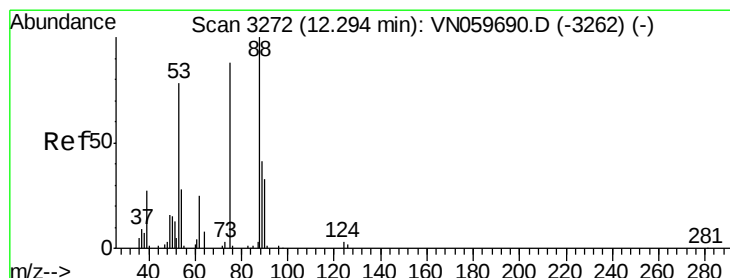
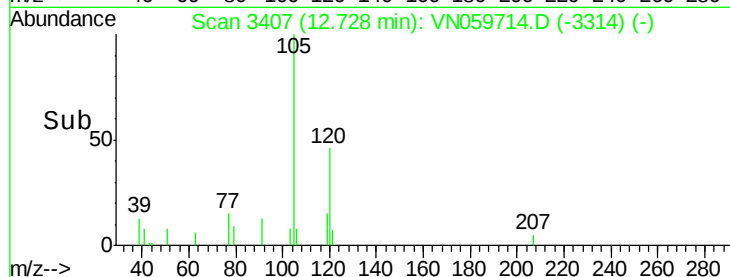
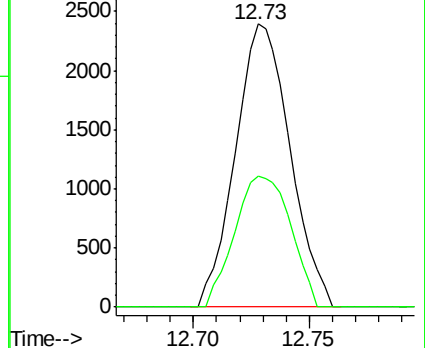
105 100

120 47.3 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.418 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

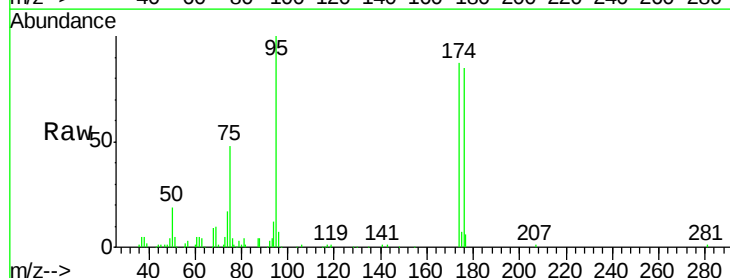
Tgt Ion: 75 Resp: 57396

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

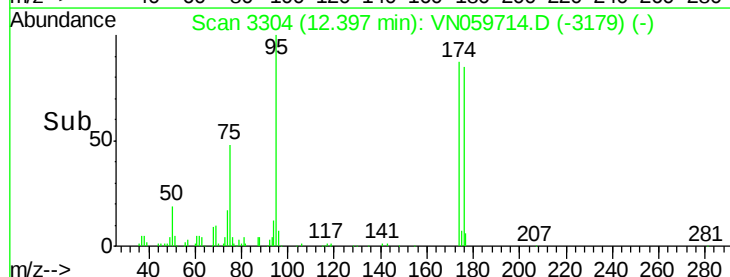
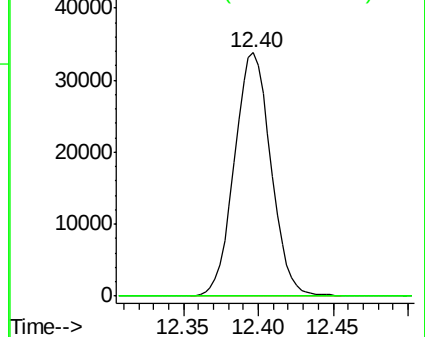
89 0.0 35.4 53.2#

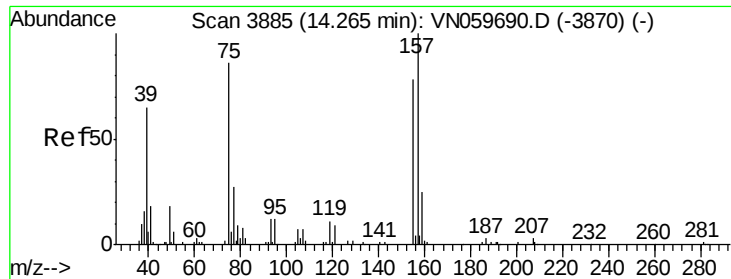


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

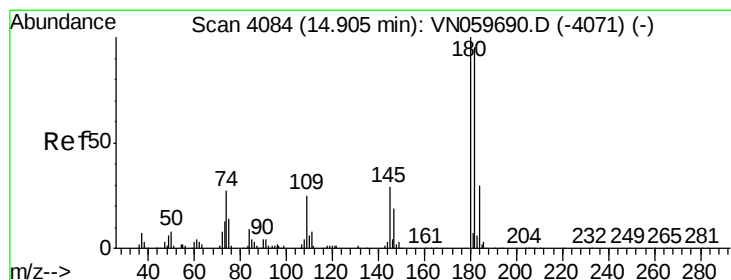
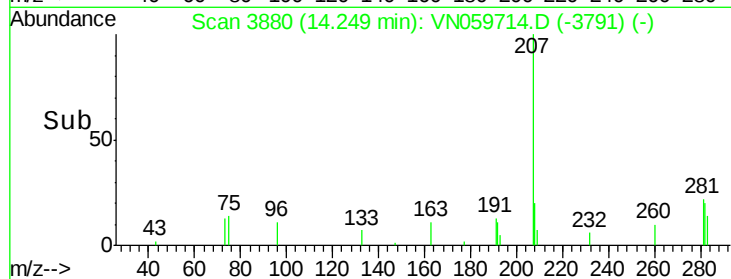
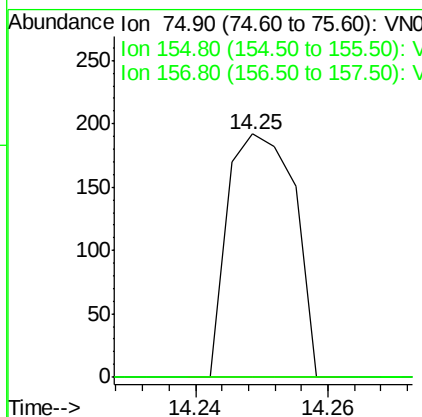
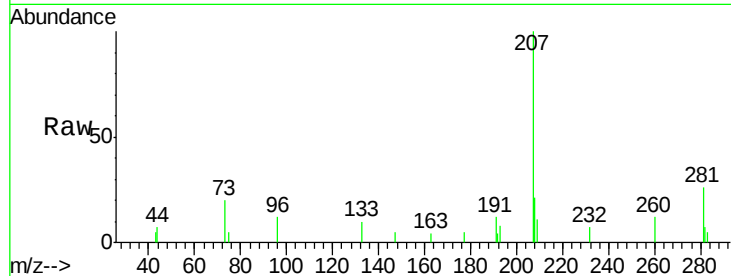




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.25 min Scan# 3880
 Delta R.T. -0.02 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

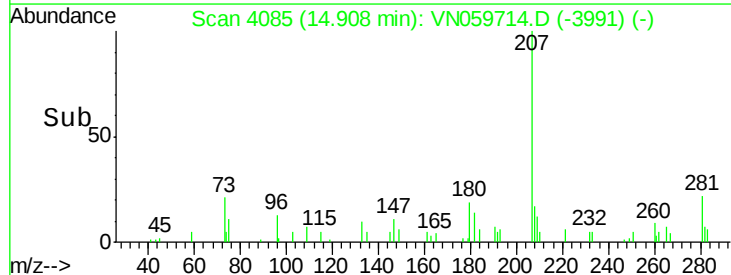
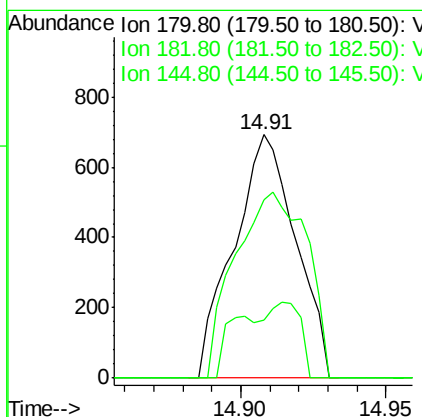
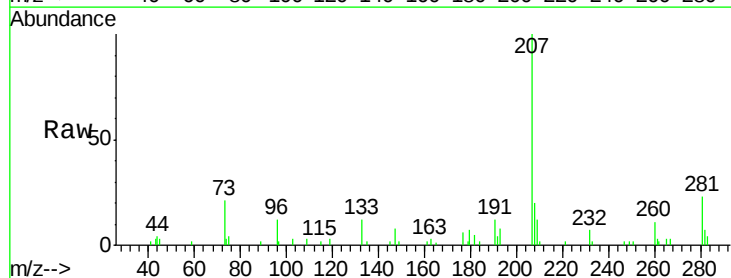
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126097TB

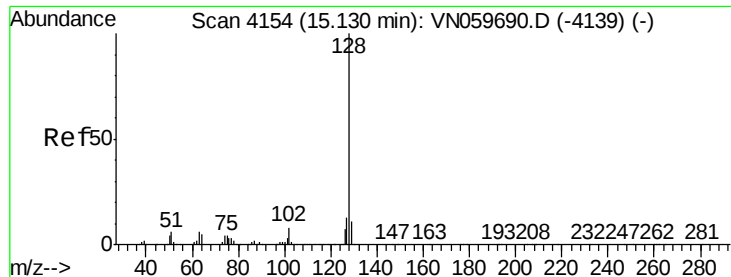
Tgt Ion: 75 Resp: 134
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.501 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN059714.D
 Acq: 15 Jan 2020 12:13

Tgt Ion: 180 Resp: 1028
 Ion Ratio Lower Upper
 180 100
 182 88.6 46.9 140.7
 145 15.0 15.0 45.1#





#95

Naphthalene

Concen: 0.713 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

PB126097TB

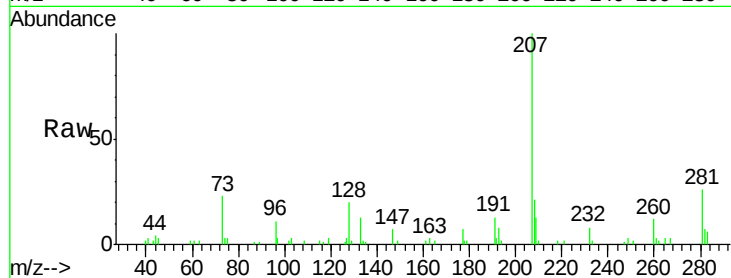
Tgt Ion:128 Resp: 4162

Ion Ratio Lower Upper

128 100

127 11.5 10.4 15.6

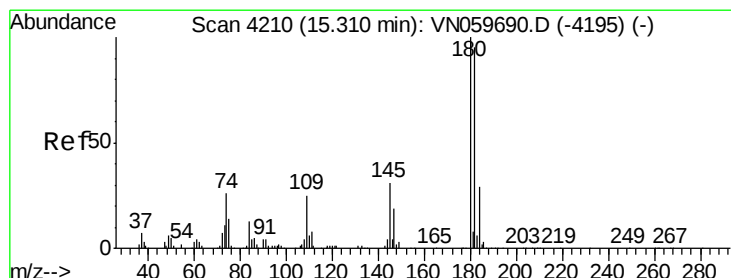
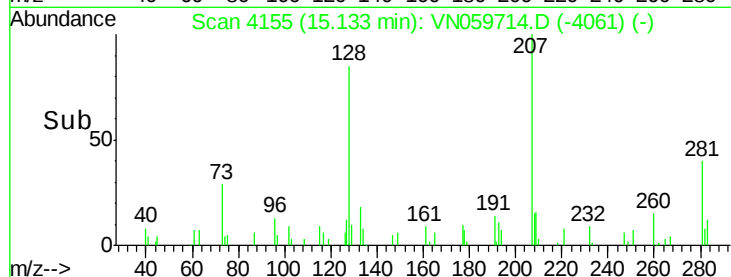
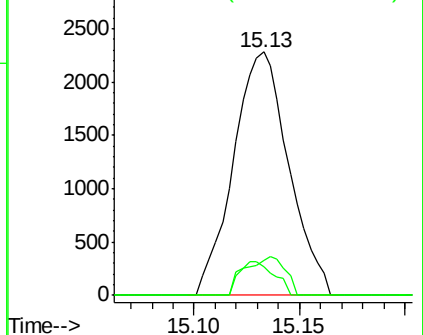
129 8.7 8.6 12.8



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: 0.674 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN059714.D

Acq: 15 Jan 2020 12:13

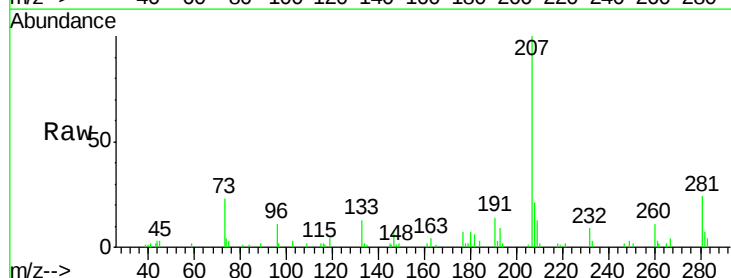
Tgt Ion:180 Resp: 1345

Ion Ratio Lower Upper

180 100

182 94.5 47.4 142.3

145 26.2 16.3 48.9



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

