

Data File : VN057766.D
Acq On : 7 Sep 2019 19:53
Operator : JC/SP
Sample : K4581-38
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-D4-(3.5)

Quant Time: Sep 08 06:39:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	199169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	322543	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	293328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	155431	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	242921	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
35) Dibromofluoromethane	7.57	113	145924	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
50) Toluene-d8	10.09	98	556471	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.40	95	202528	44.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.74%	

Target Compounds

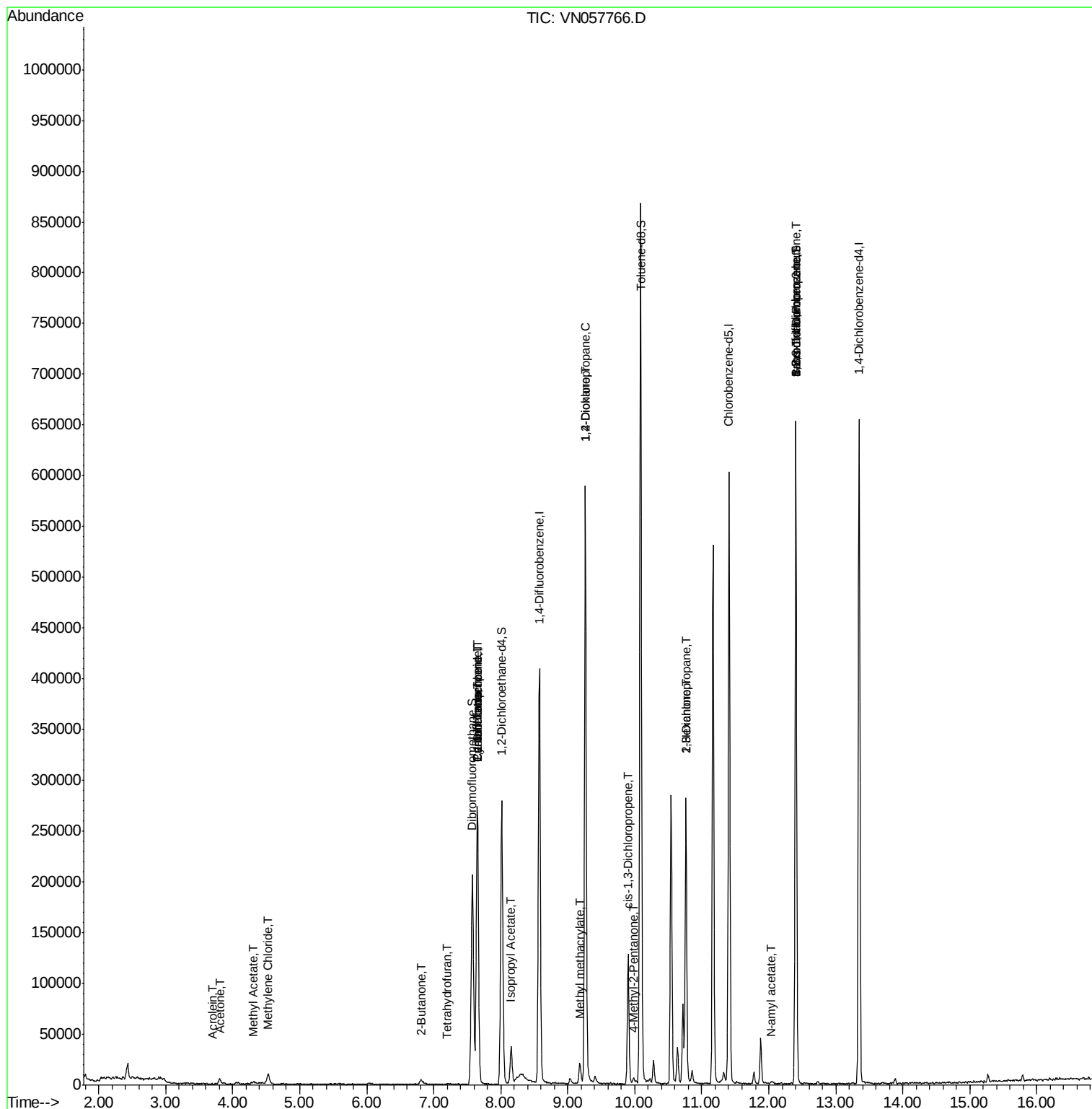
					Qvalue	
3) Chloromethane	2.04	50	950	Below Cal	#	42
13) Acrolein	3.70	56	65	0.248	ug/l #	15
16) Acetone	3.80	43	8191	5.493	ug/l	98
18) Methyl Acetate	4.31	43	2659	0.656	ug/l #	82
20) Methylene Chloride	4.53	84	5703	1.769	ug/l #	94
25) 2-Butanone	6.82	43	523	0.245	ug/l #	1
29) Tetrahydrofuran	7.20	42	417	0.303	ug/l #	40
31) Cyclohexane	7.65	56	6206	1.141	ug/l #	36
36) 1,1-Dichloropropene	7.65	75	19051	4.440	ug/l #	53
38) Carbon Tetrachloride	7.65	117	22538	5.486	ug/l #	15
43) Isopropyl Acetate	8.16	43	43716	5.346	ug/l	99
45) 1,2-Dichloropropane	9.26	63	839	0.247	ug/l #	44
48) Methyl methacrylate	9.18	41	2618	0.623	ug/l #	16
49) 1,4-Dioxane	9.27	88	128	2.616	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3010	0.663	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	19867	3.961	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	2748	0.517	ug/l #	43
59) 2-Hexanone	10.76	43	46267	14.449	ug/l #	58
71) Bromoform	12.40	173	1523	3.958	ug/l #	1
74) N-amyl acetate	12.04	43	2143	0.312	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	123201	34.517	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	123201	107.348	ug/l #	1

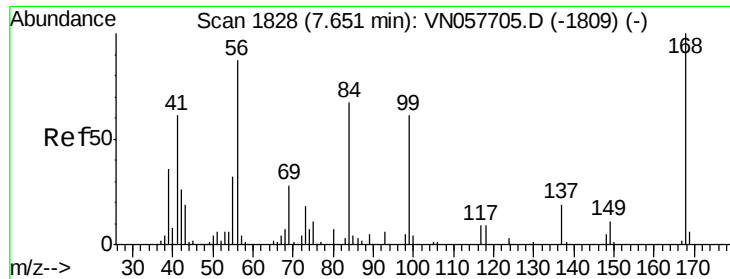
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

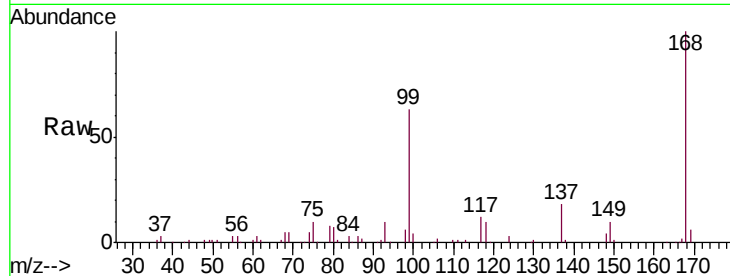
T12-D4-(3.5)

Tgt Ion:168 Resp: 199169

Ion Ratio Lower Upper

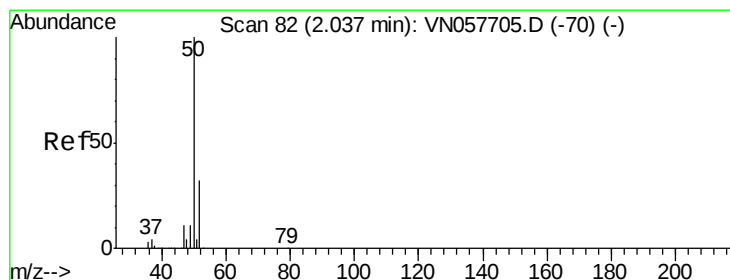
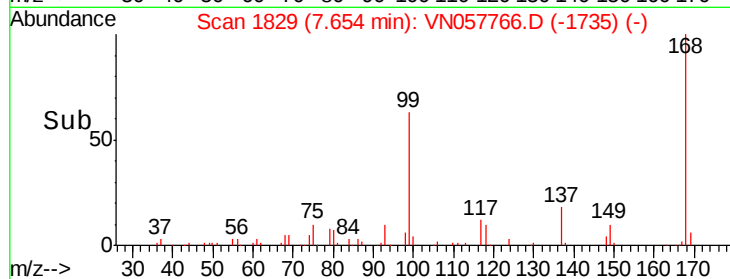
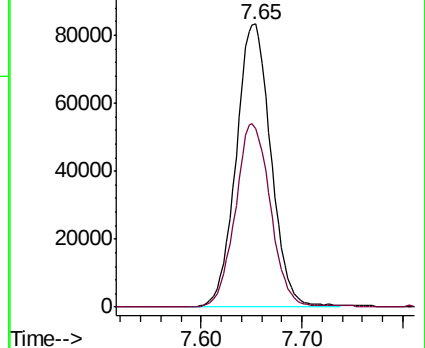
168 100

99 63.1 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057766.D

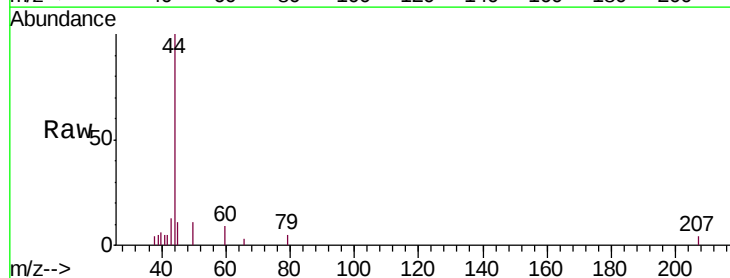
Acq: 7 Sep 2019 19:53

Tgt Ion: 50 Resp: 950

Ion Ratio Lower Upper

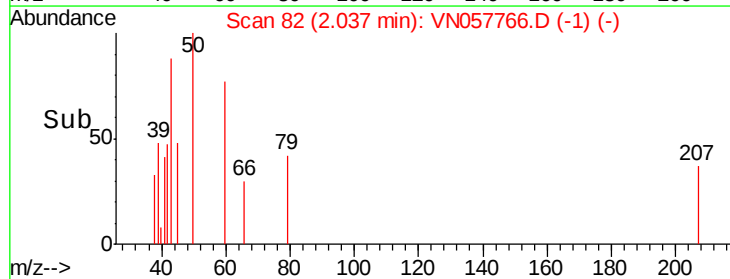
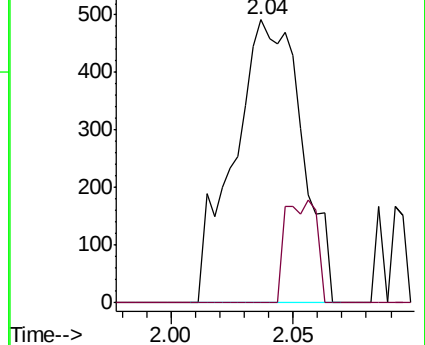
50 100

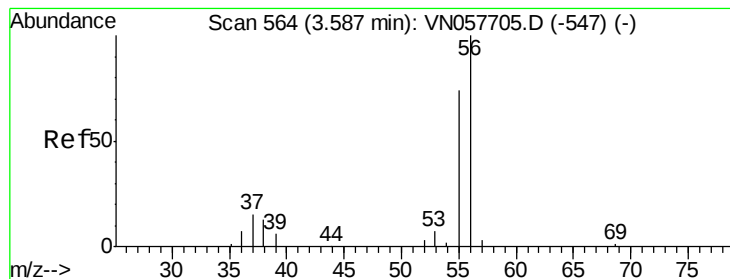
52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#13

Acrolein

Concen: 0.248 ug/l

RT: 3.70 min Scan# 600

Delta R.T. 0.12 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

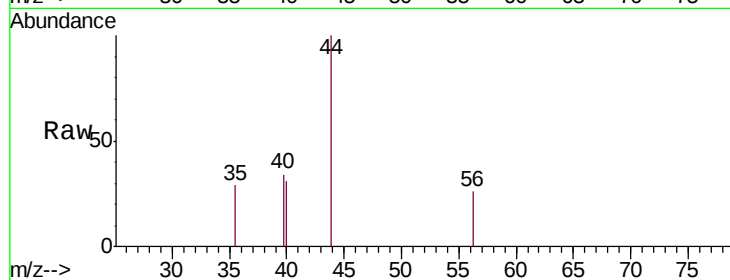
T12-D4-(3.5)

Tgt Ion: 56 Resp: 65

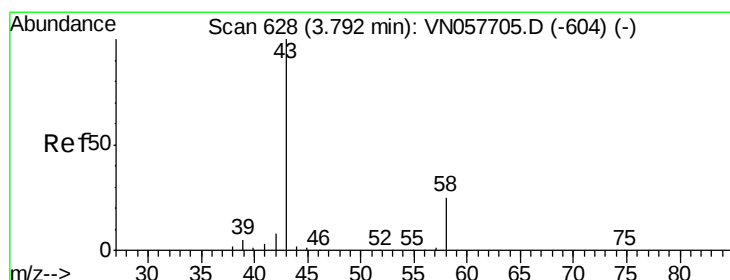
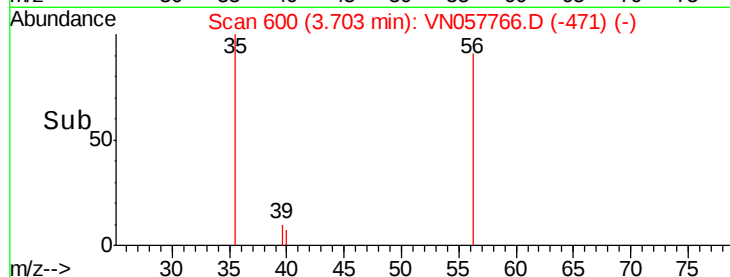
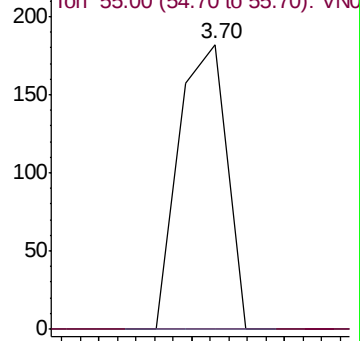
Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Acetone

Concen: 5.493 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN057766.D

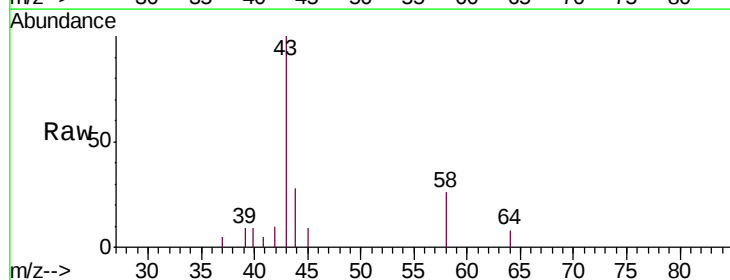
Acq: 7 Sep 2019 19:53

Tgt Ion: 43 Resp: 8191

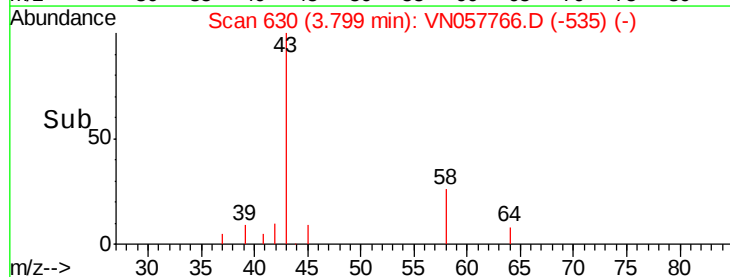
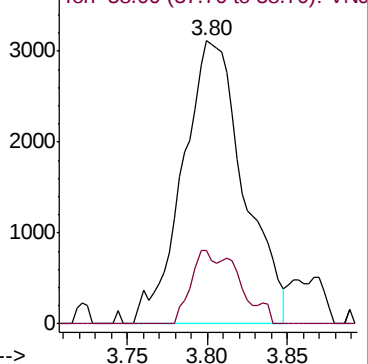
Ion Ratio Lower Upper

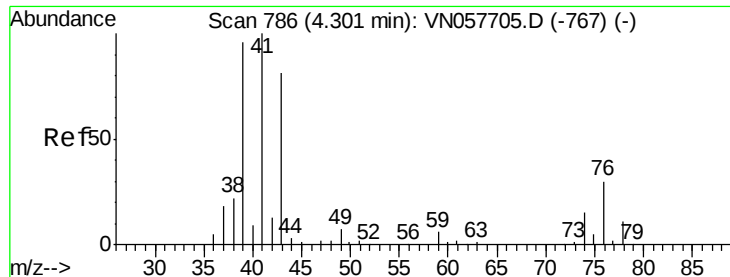
43 100

58 25.8 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0





#18

Methyl Acetate

Concen: 0.656 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampled :

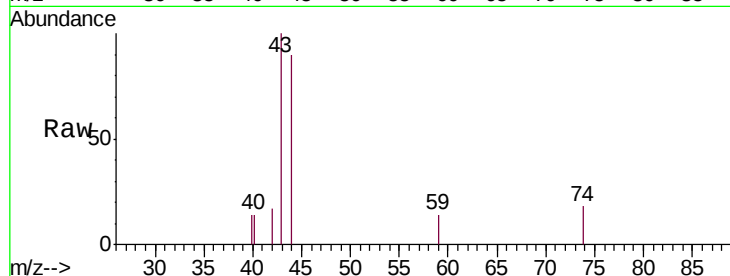
T12-D4-(3.5)

Tgt Ion: 43 Resp: 2659

Ion Ratio Lower Upper

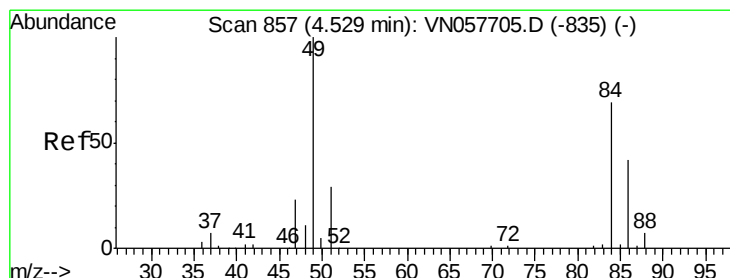
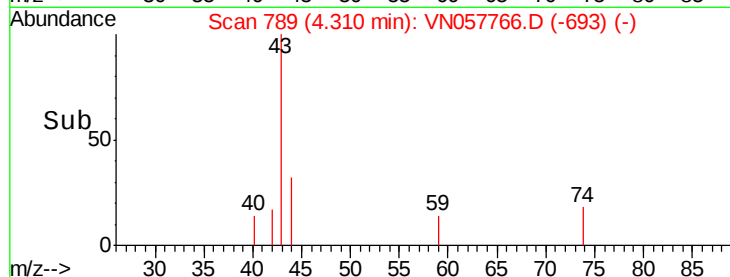
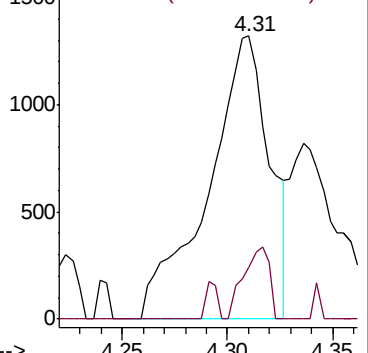
43 100

74 10.9 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#20

Methylene Chloride

Concen: 1.769 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Tgt Ion: 84 Resp: 5703

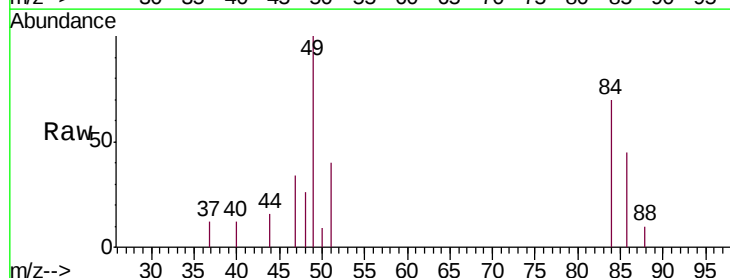
Ion Ratio Lower Upper

84 100

49 143.6 115.0 172.6

51 57.0 33.8 50.8#

86 65.2 48.2 72.2

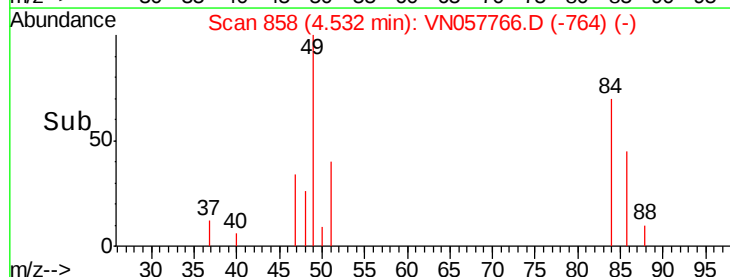
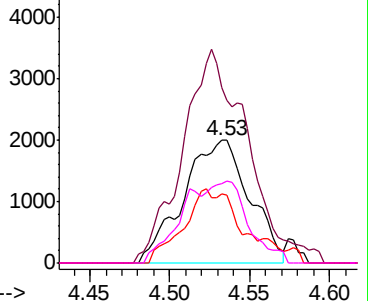


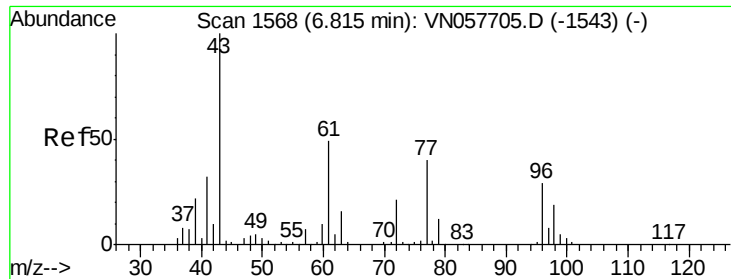
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

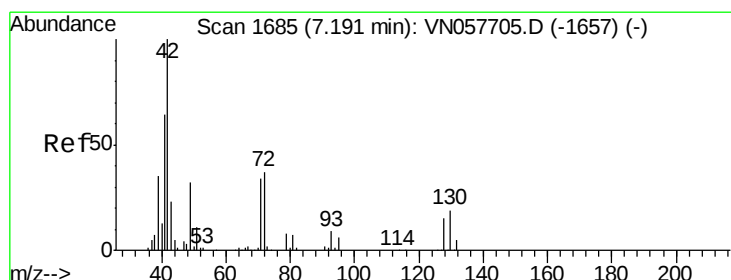
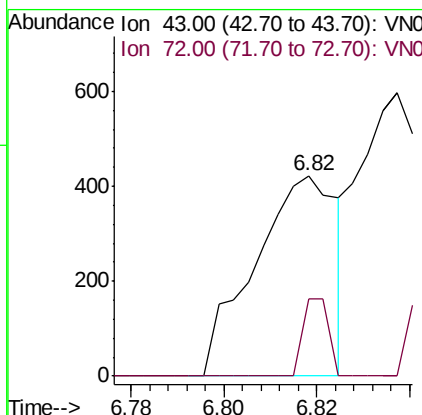
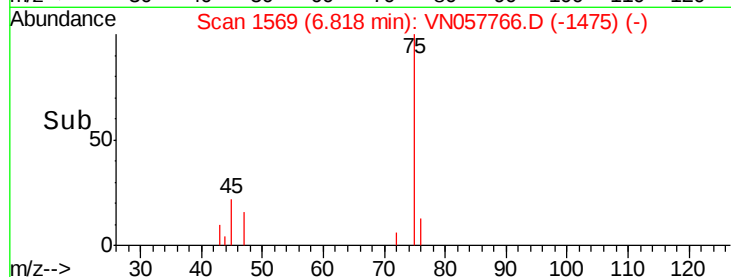
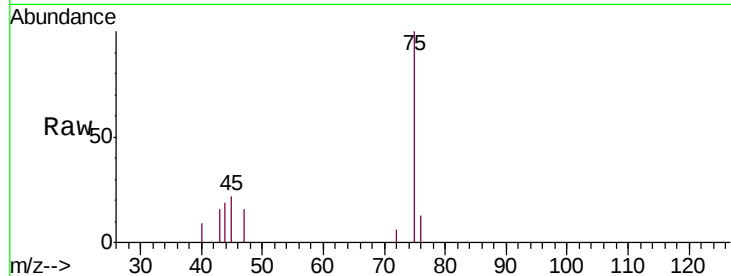




#25
2-Butanone
Concen: 0.245 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

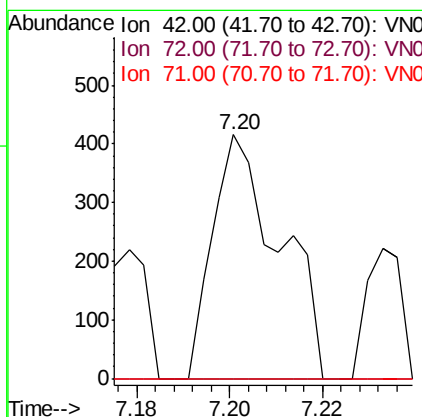
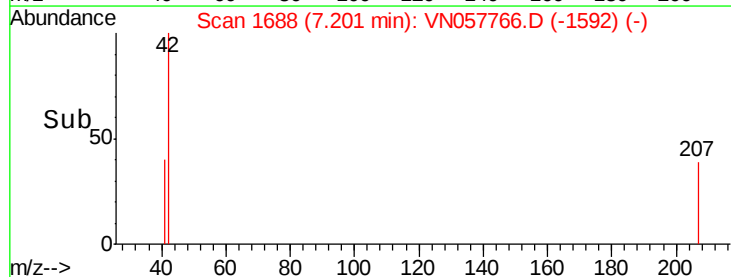
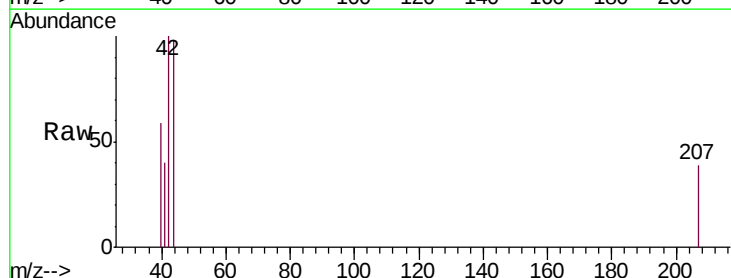
Instrument :
MSVOA_N
ClientSampleId :
T12-D4-(3.5)

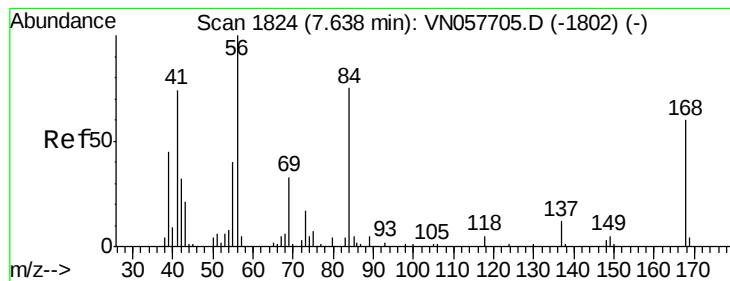
Tgt Ion: 43 Resp: 523
Ion Ratio Lower Upper
43 100
72 352.2 17.0 25.6#



#29
Tetrahydrofuran
Concen: 0.303 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

Tgt Ion: 42 Resp: 417
Ion Ratio Lower Upper
42 100
72 0.0 29.2 43.8#
71 0.0 27.0 40.4#





#31

Cyclohexane

Concen: 1.141 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

T12-D4-(3.5)

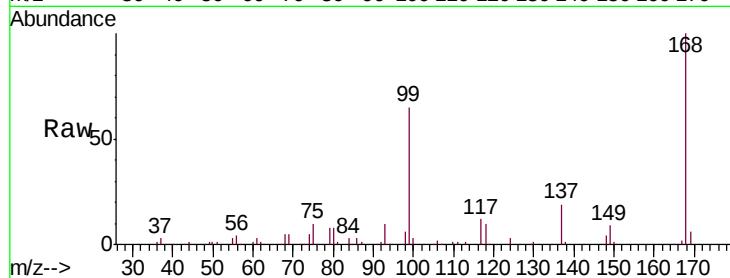
Tgt Ion: 56 Resp: 6206

Ion Ratio Lower Upper

56 100

69 121.7 26.2 39.2#

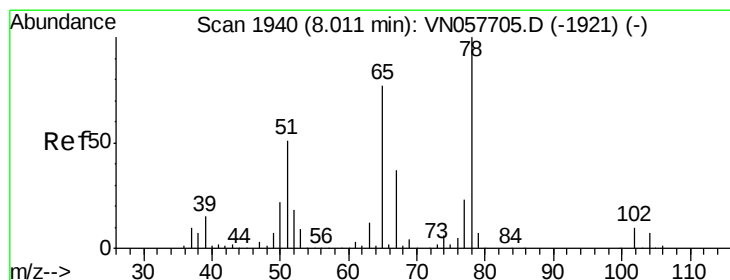
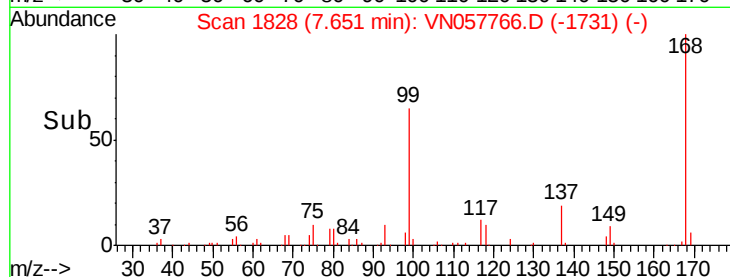
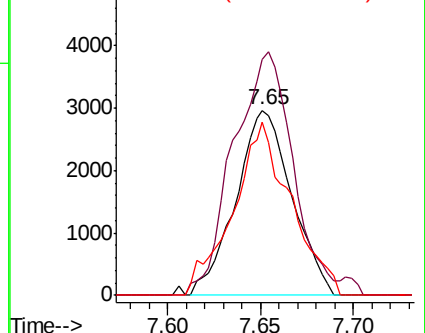
84 94.0 59.8 89.8#



Abundance Ion 56.00 (55.70 to 56.70): VN057705.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN057705.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN057705.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.137 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057766.D

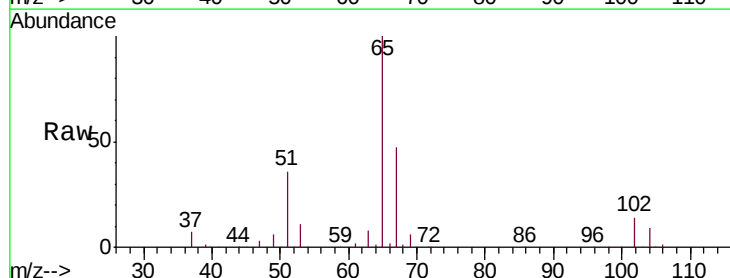
Acq: 7 Sep 2019 19:53

Tgt Ion: 65 Resp: 242921

Ion Ratio Lower Upper

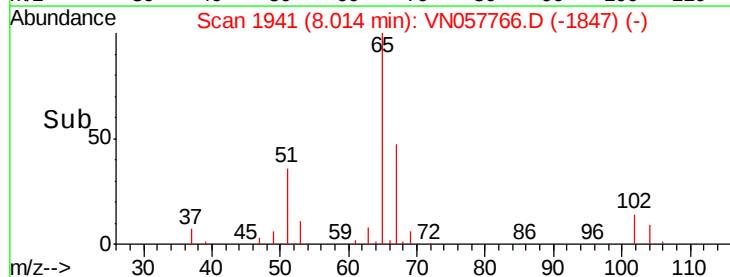
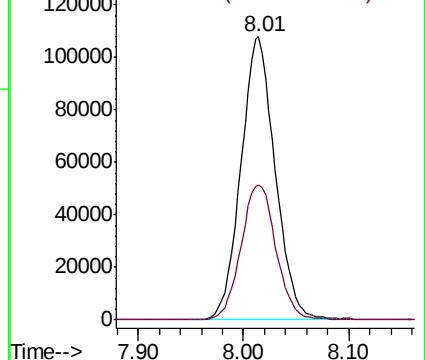
65 100

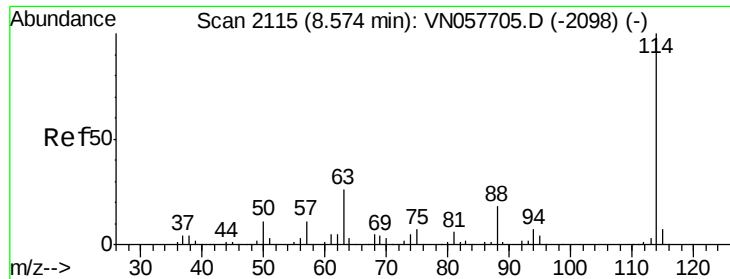
67 48.9 0.0 98.2



Abundance Ion 64.90 (64.60 to 65.60): VN057705.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057705.D (-1921) (-)

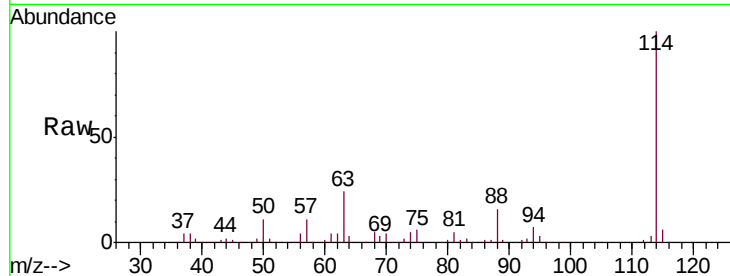




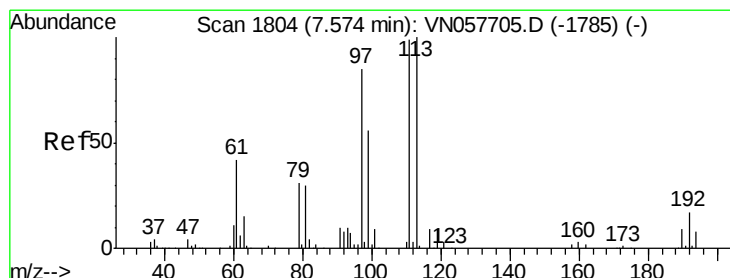
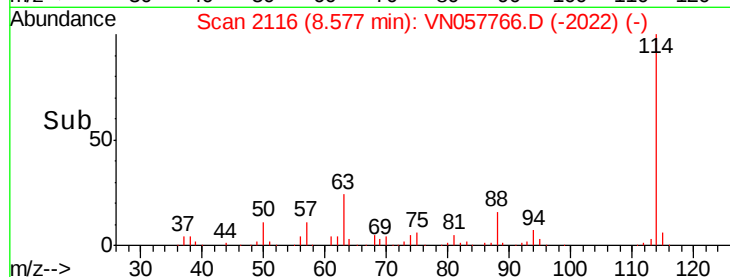
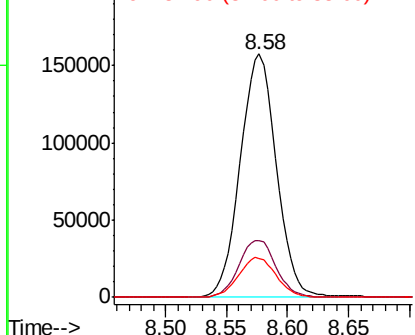
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

Instrument :
MSVOA_N
ClientSampleId :
T12-D4-(3.5)

Tgt Ion:114 Resp: 322543
Ion Ratio Lower Upper
114 100
63 23.6 0.0 52.4
88 16.2 0.0 35.4

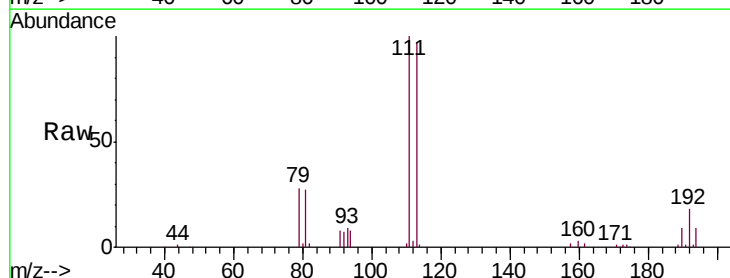


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

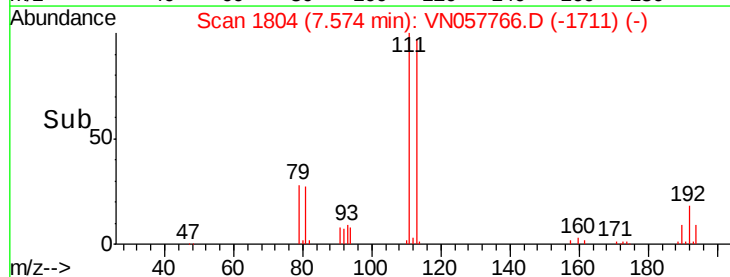
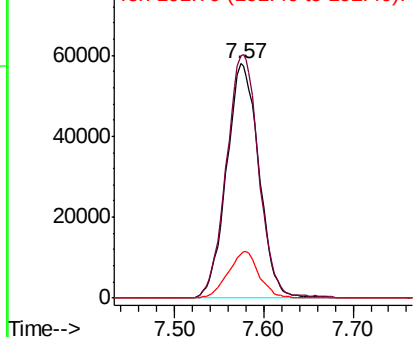


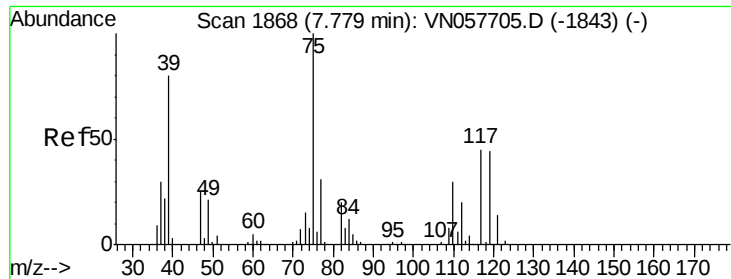
#35
Dibromofluoromethane
Concen: 49.670 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

Tgt Ion:113 Resp: 145924
Ion Ratio Lower Upper
113 100
111 103.6 82.7 124.1
192 18.9 13.8 20.6



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

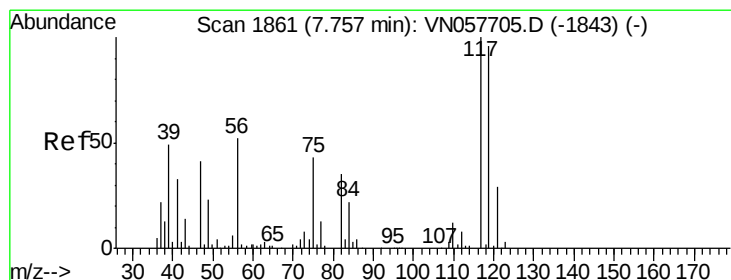
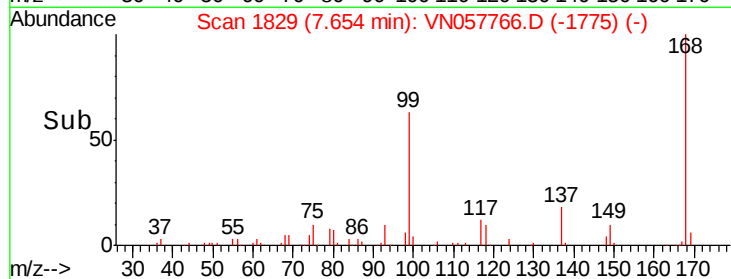
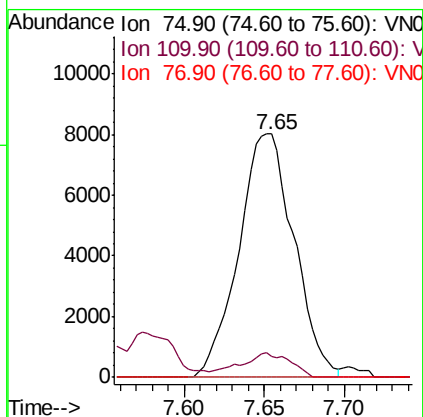
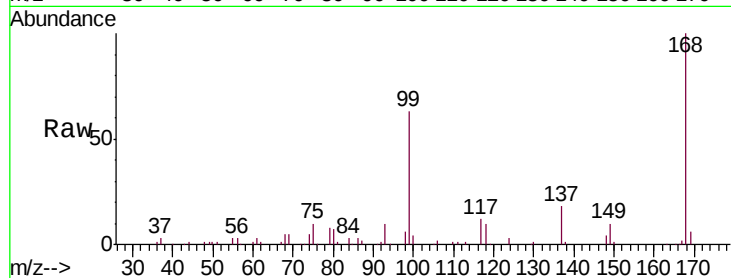




#36
 1,1-Dichloropropene
 Concen: 4.440 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN057766.D
 Acq: 7 Sep 2019 19:53

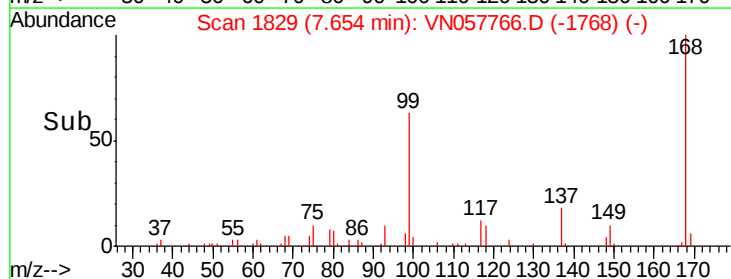
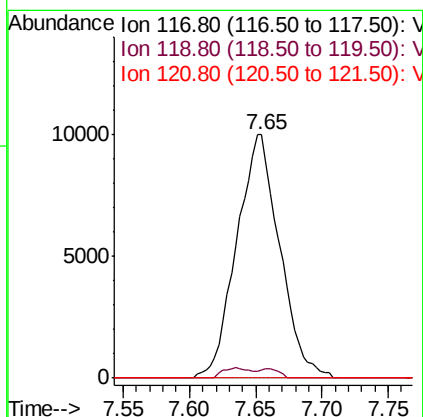
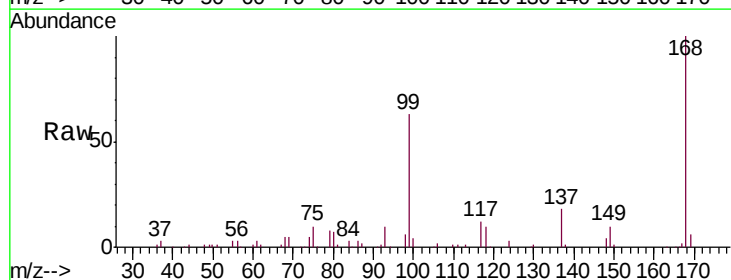
Instrument :
 MSVOA_N
 ClientSampled :
 T12-D4-(3.5)

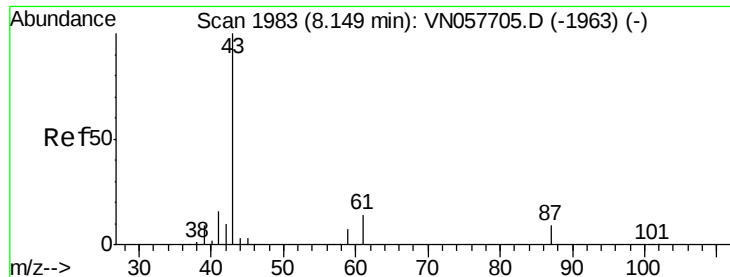
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	15.0	45.0#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.486 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057766.D
 Acq: 7 Sep 2019 19:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.4	76.1	114.1#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 5.346 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampled :

T12-D4-(3.5)

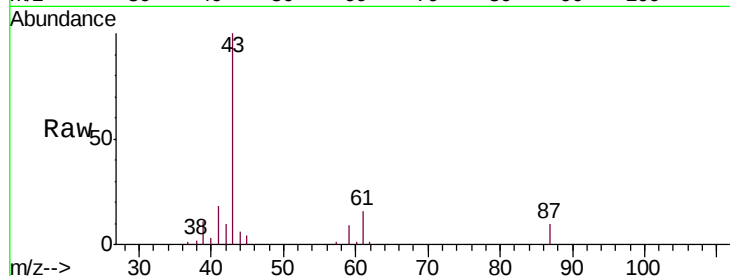
Tgt Ion: 43 Resp: 43716

Ion Ratio Lower Upper

43 100

61 15.4 12.8 19.2

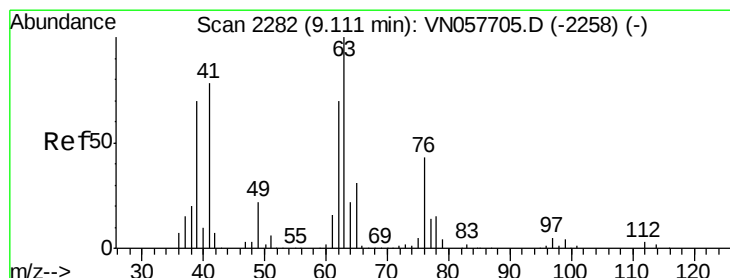
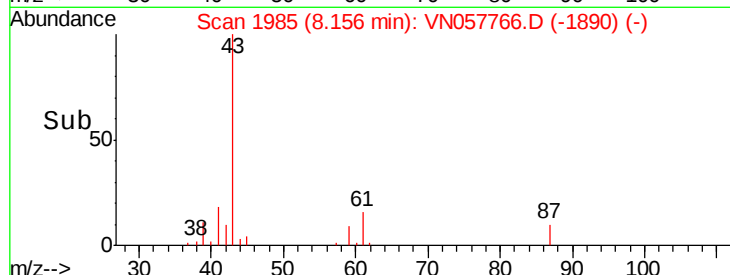
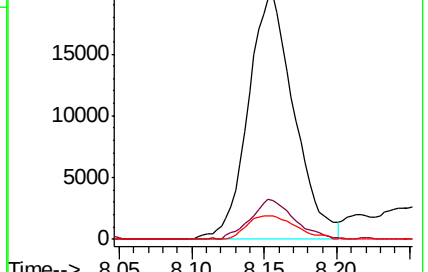
87 10.1 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN057705.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN057705.D (-1963) (-)



#45

1,2-Dichloropropane

Concen: 0.247 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN057766.D

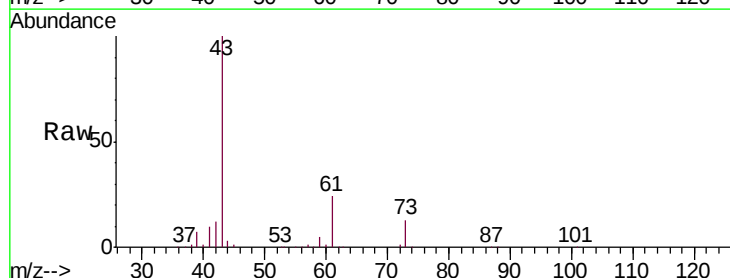
Acq: 7 Sep 2019 19:53

Tgt Ion: 63 Resp: 839

Ion Ratio Lower Upper

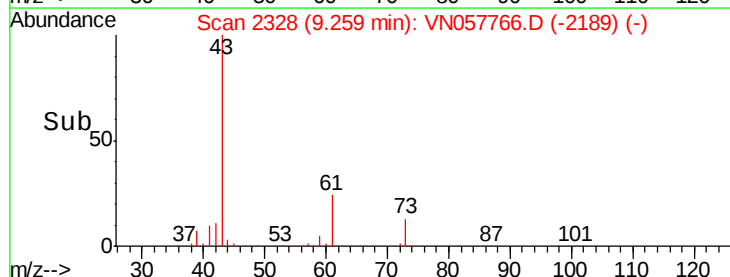
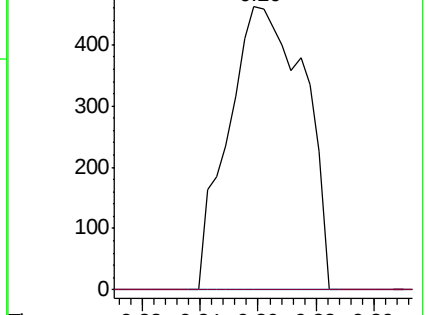
63 100

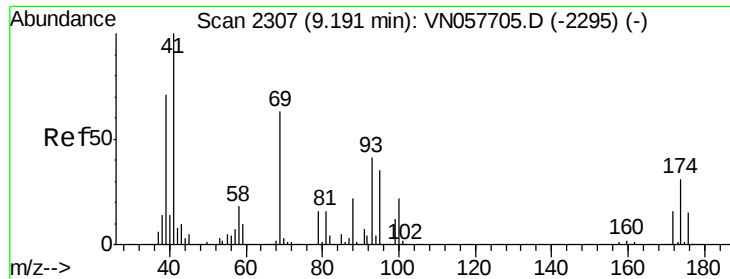
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN057705.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN057705.D (-2258) (-)

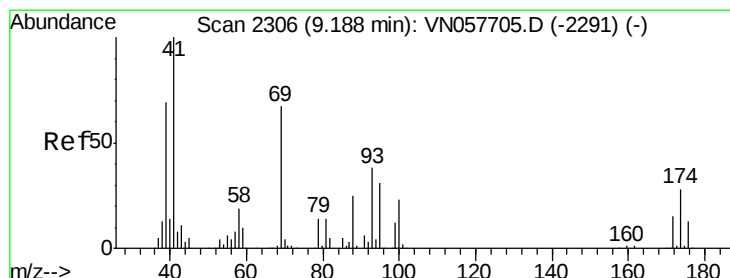
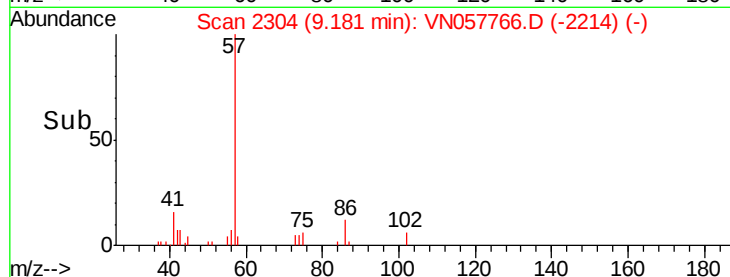
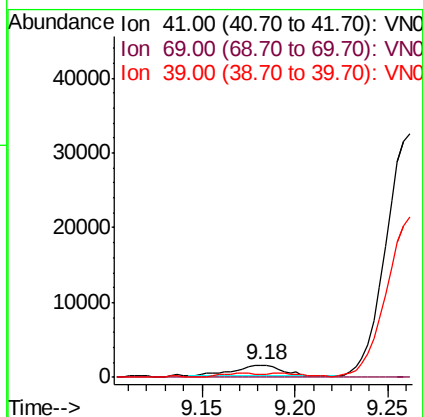
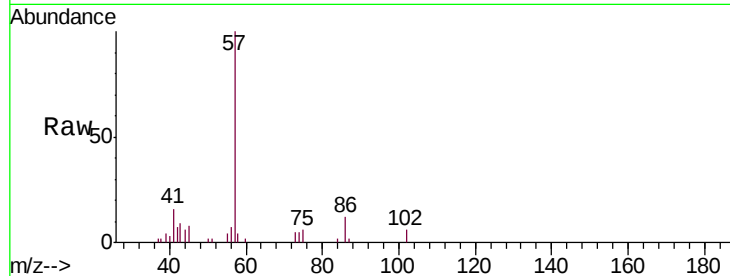




#48
Methyl methacrylate
Concen: 0.623 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

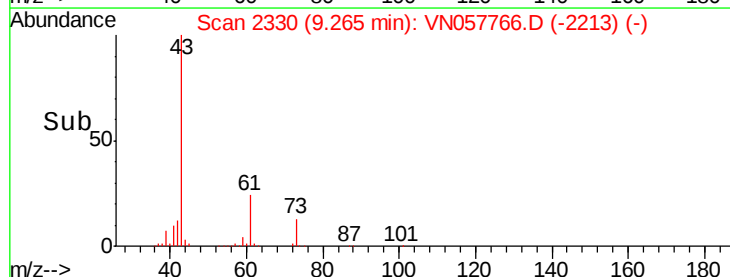
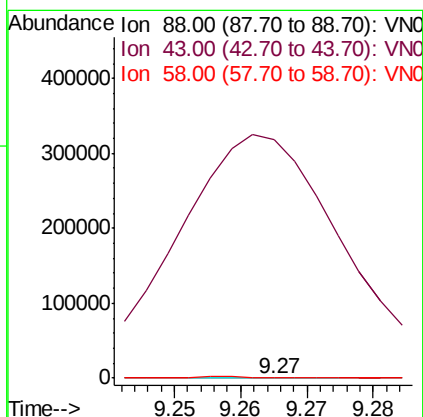
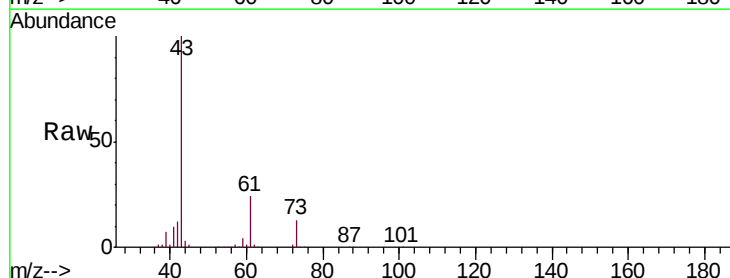
Instrument :
MSVOA_N
ClientSampleId :
T12-D4-(3.5)

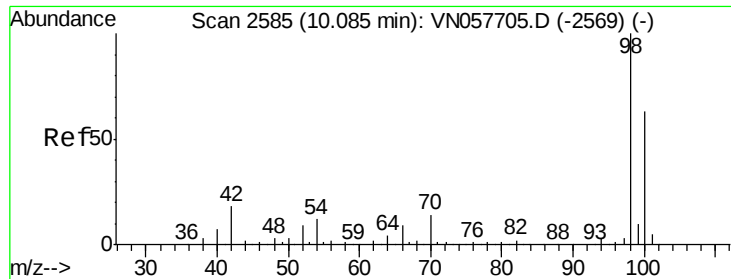
Tgt Ion: 41 Resp: 2618
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#



#49
1,4-Dioxane
Concen: 2.616 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.08 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

Tgt Ion: 88 Resp: 128
Ion Ratio Lower Upper
88 100
43 464097.7 35.4 53.2#
58 2131.3 61.5 92.3#





#50

Toluene-d8

Concen: 51.203 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

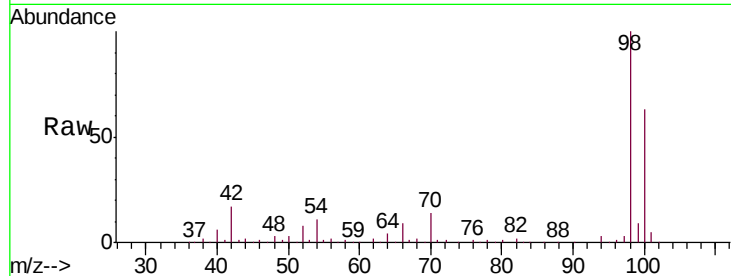
T12-D4-(3.5)

Tgt Ion: 98 Resp: 556471

Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057705.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057705.D (-2569) (-)

10.09

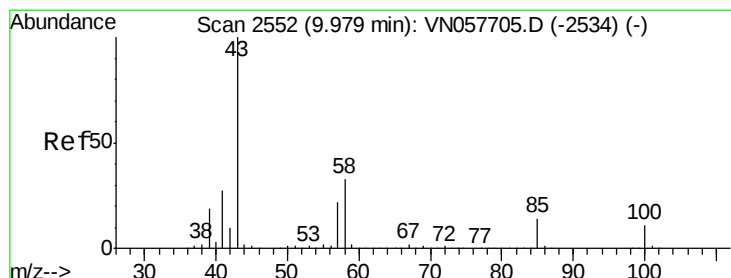
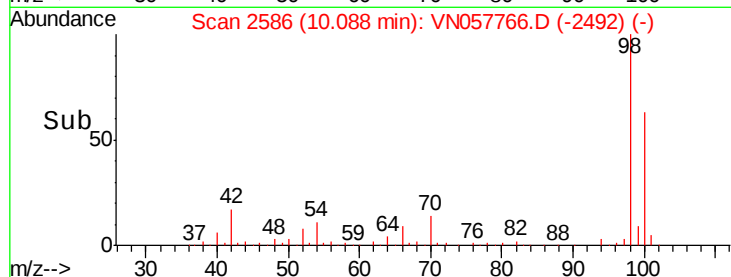
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.663 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057766.D

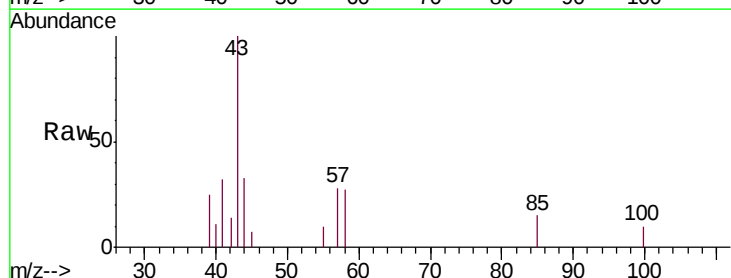
Acq: 7 Sep 2019 19:53

Tgt Ion: 43 Resp: 3010

Ion Ratio Lower Upper

43 100

58 39.3 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057705.D (-2534) (-)

9.99

2500

2000

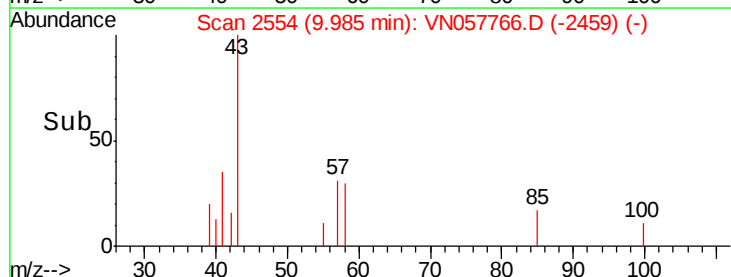
1500

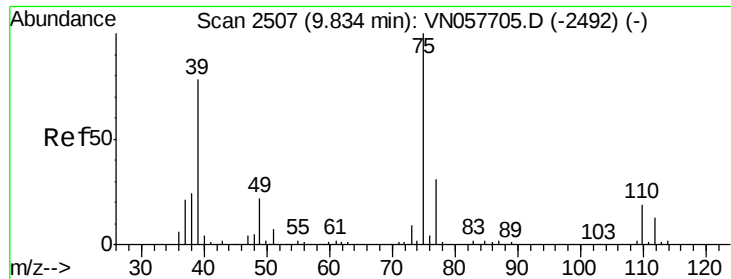
1000

500

0

Time-->



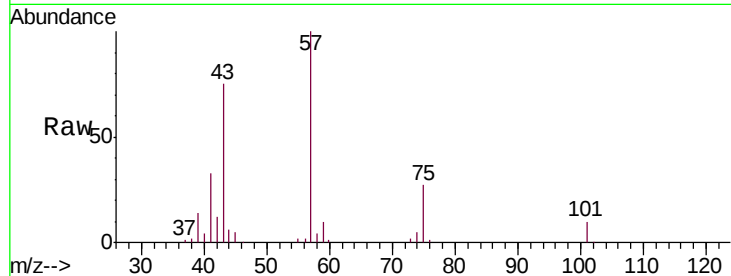


#54

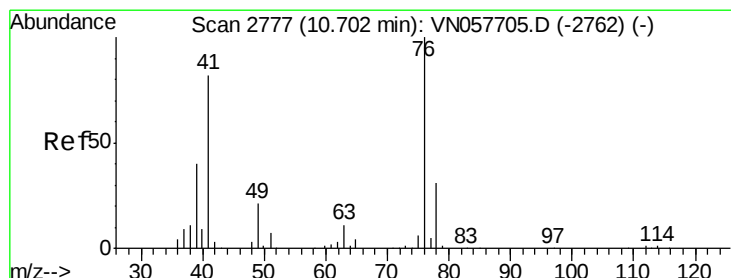
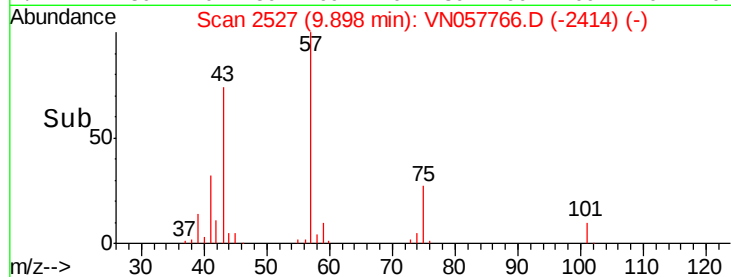
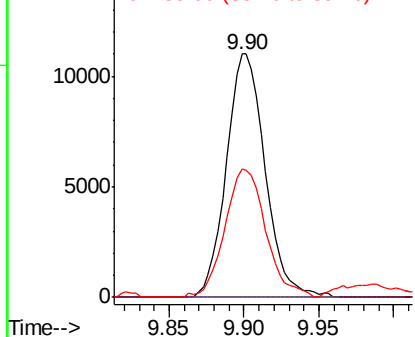
cis-1,3-Dichloropropene
 Concen: 3.961 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057766.D
 Acq: 7 Sep 2019 19:53

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-D4-(3.5)

Tgt Ion: 75 Resp: 19867
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 51.3 62.4 93.6#



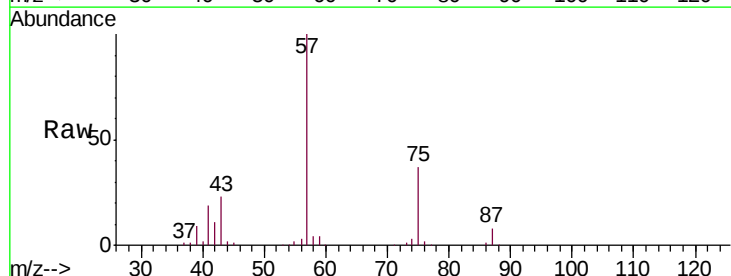
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



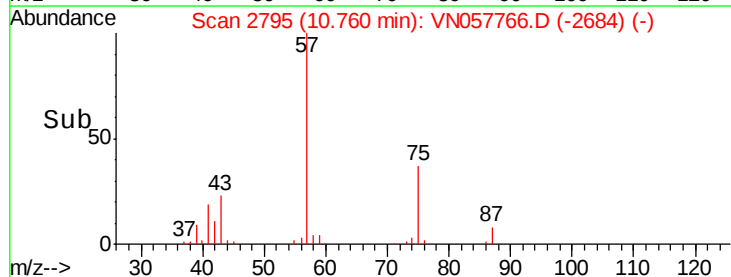
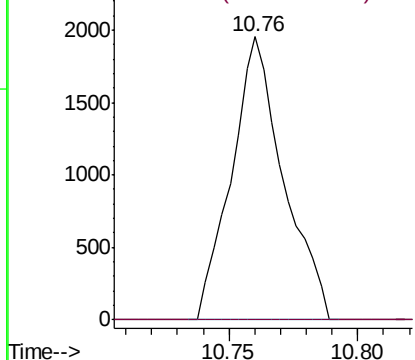
#57

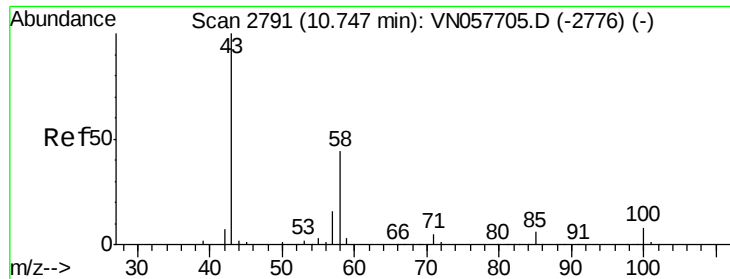
1,3-Dichloropropane
 Concen: 0.517 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057766.D
 Acq: 7 Sep 2019 19:53

Tgt Ion: 76 Resp: 2748
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

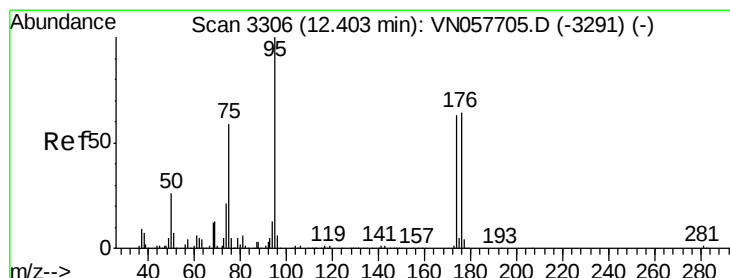
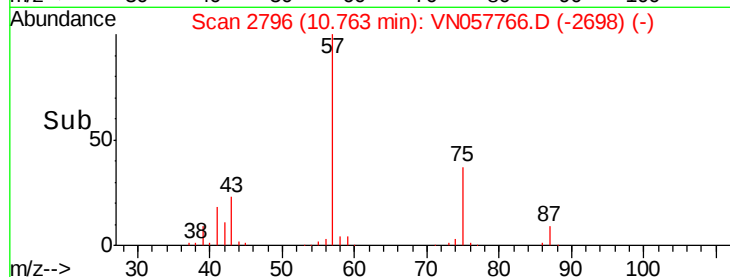
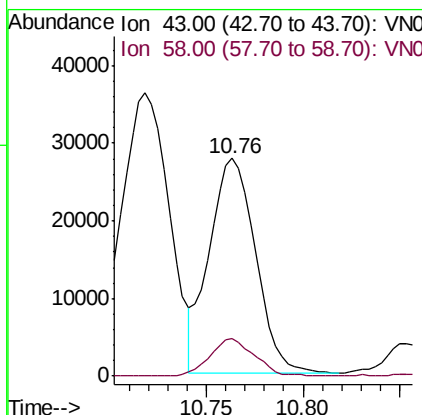
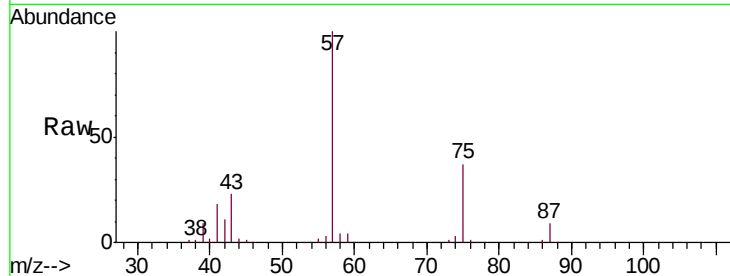




#59
2-Hexanone
Concen: 14.449 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

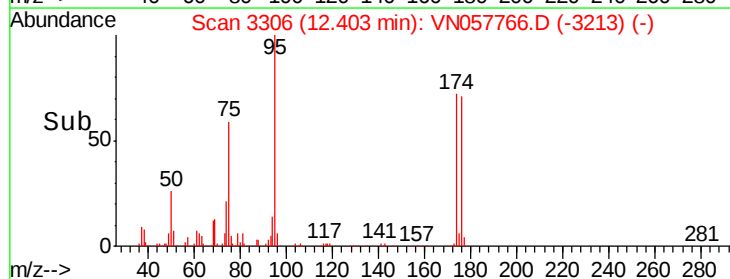
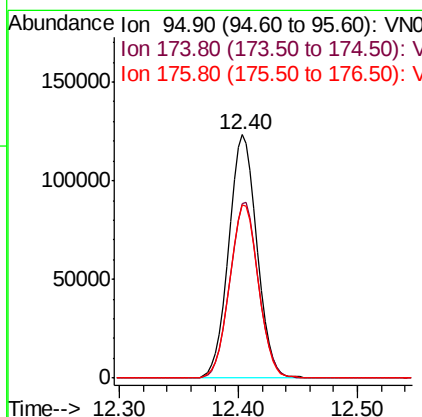
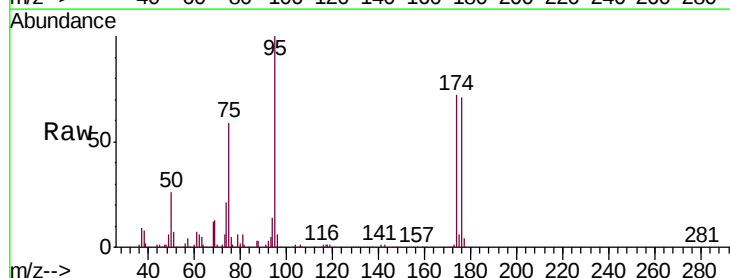
Instrument :
MSVOA_N
ClientSampled :
T12-D4-(3.5)

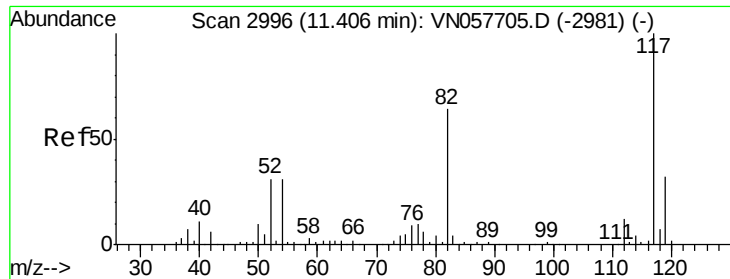
Tgt Ion: 43 Resp: 46267
Ion Ratio Lower Upper
43 100
58 16.7 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 44.866 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

Tgt Ion: 95 Resp: 202528
Ion Ratio Lower Upper
95 100
174 73.5 0.0 128.0
176 72.7 0.0 128.0

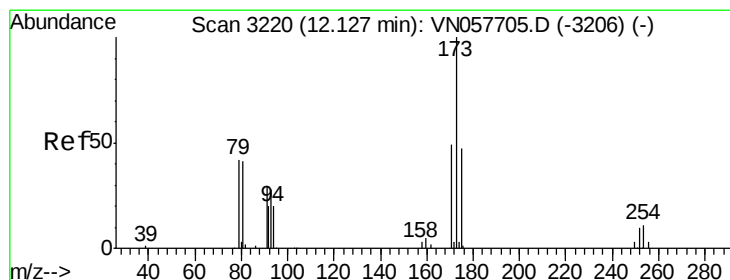
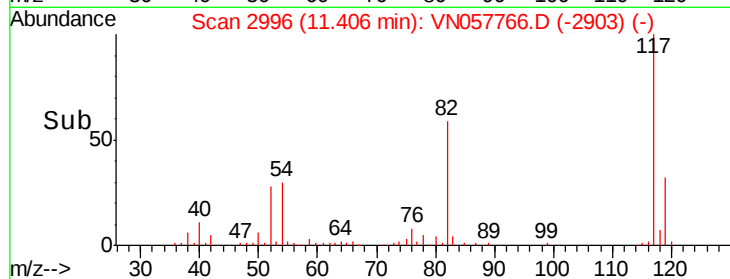
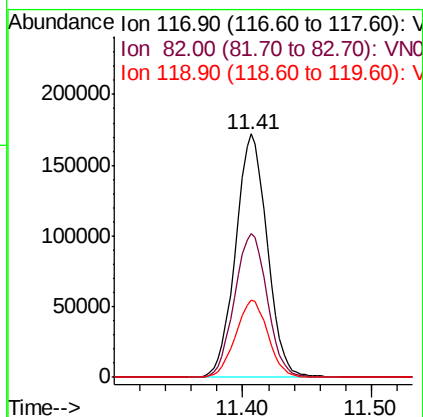
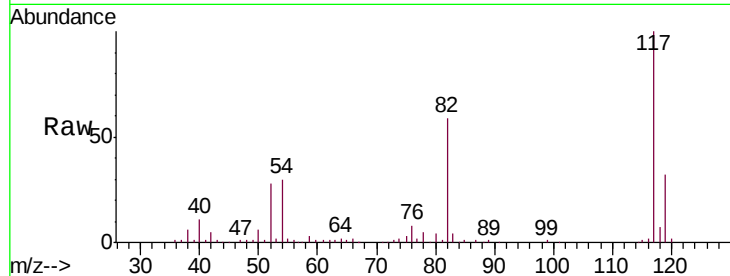




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

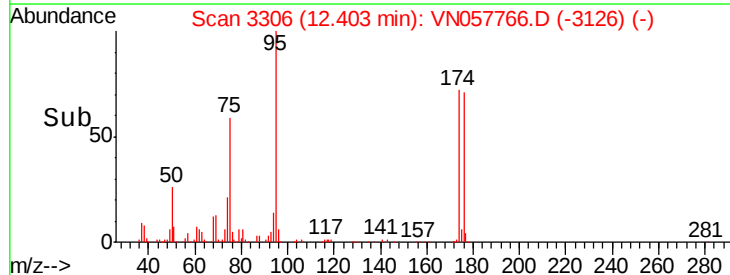
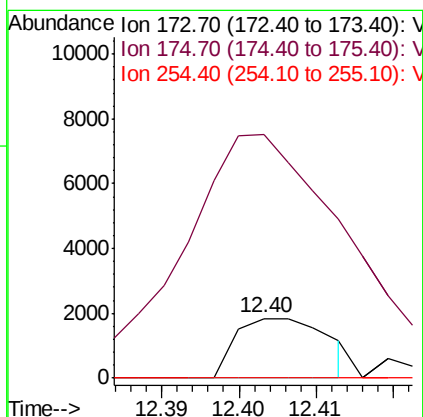
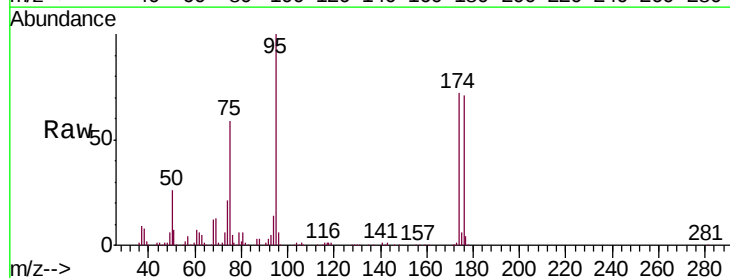
Instrument :
MSVOA_N
ClientSampleId :
T12-D4-(3.5)

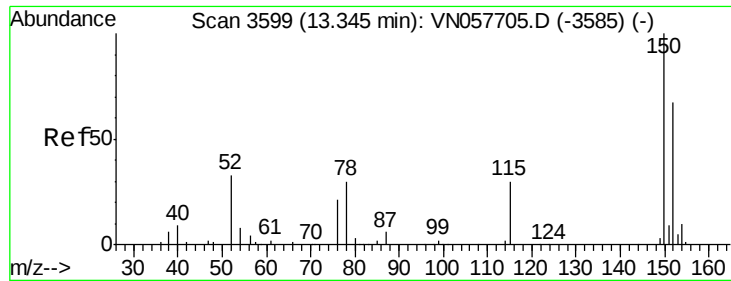
Tgt Ion:117 Resp: 293328
Ion Ratio Lower Upper
117 100
82 59.0 51.4 77.0
119 31.8 25.4 38.2



#71
Bromoform
Concen: 3.958 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN057766.D
Acq: 7 Sep 2019 19:53

Tgt Ion:173 Resp: 1523
Ion Ratio Lower Upper
173 100
175 633.5 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

T12-D4-(3.5)

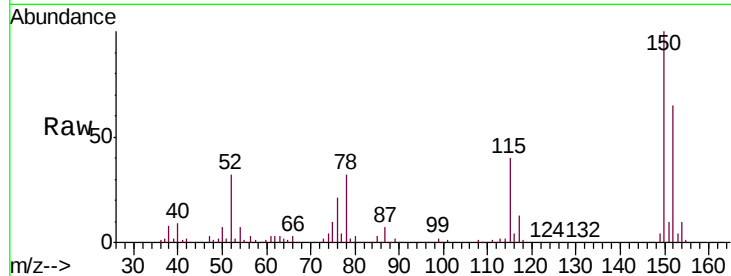
Tgt Ion:152 Resp: 155431

Ion Ratio Lower Upper

152 100

115 60.9 33.8 101.3

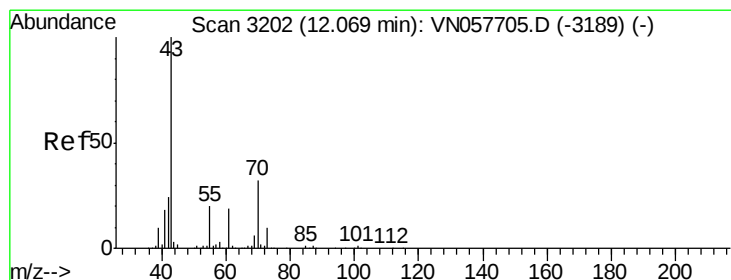
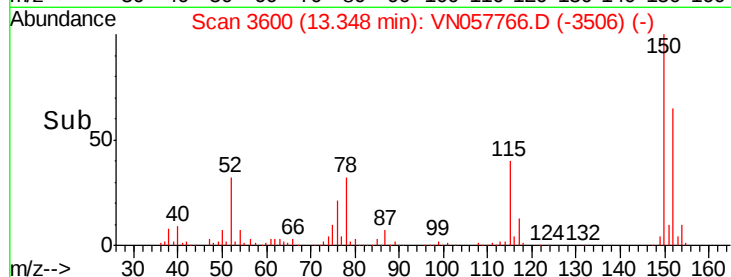
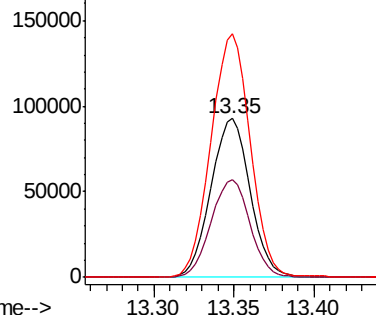
150 153.5 0.0 345.4



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



#74

N-ethyl acetate

Concen: 0.312 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN057766.D

Acq: 7 Sep 2019 19:53

Tgt Ion: 43 Resp: 2143

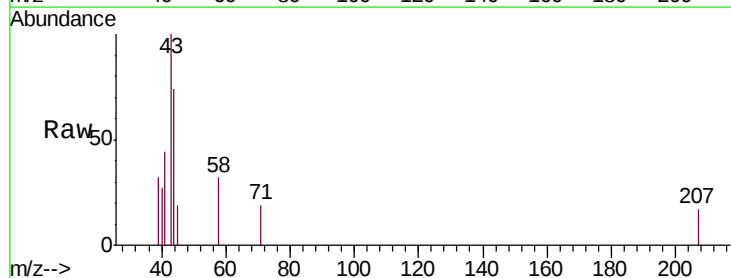
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 0.0 16.3 24.5#

61 0.0 15.0 22.4#

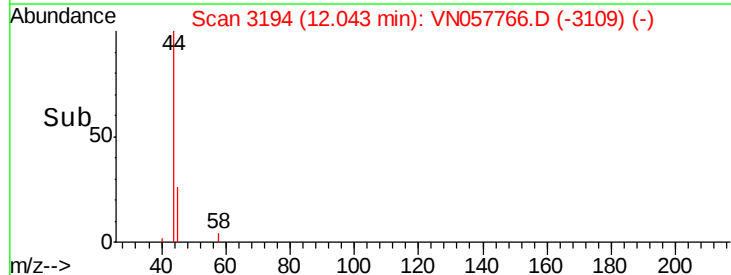
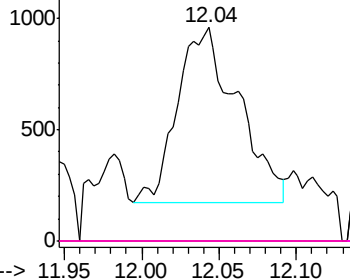


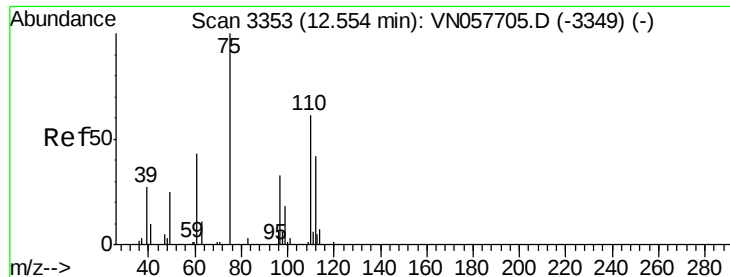
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

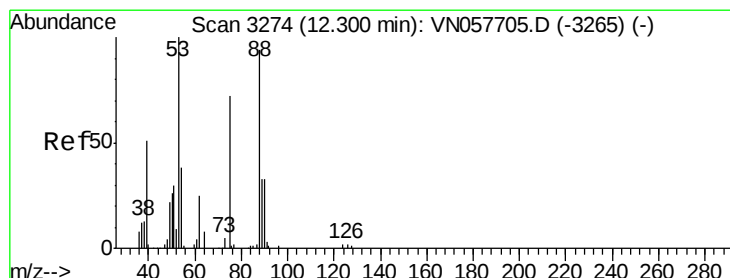
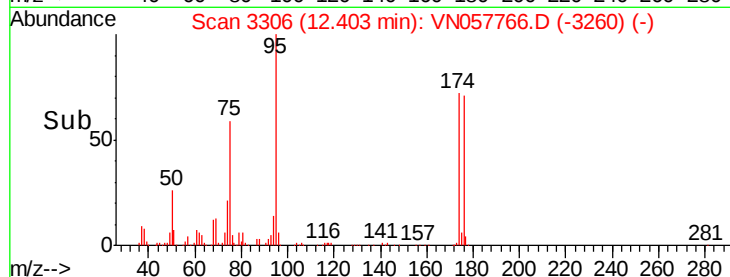
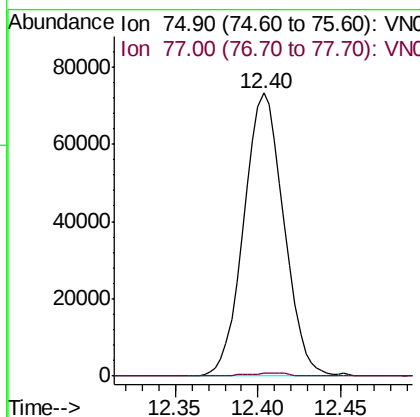
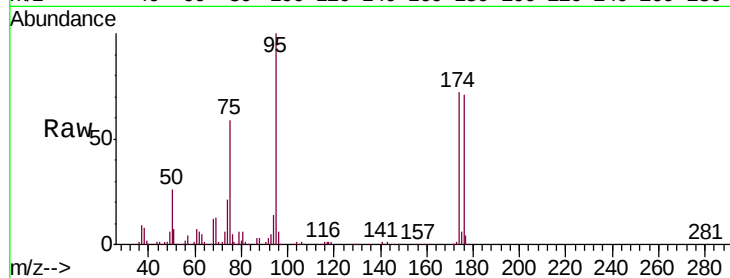




#76
 1,2,3-Trichloropropane
 Concen: 34.517 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN057766.D
 Acq: 7 Sep 2019 19:53

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-D4-(3.5)

Tgt Ion: 75 Resp: 123201
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.348 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057766.D
 Acq: 7 Sep 2019 19:53

Tgt Ion: 75 Resp: 123201
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

