

Data File : VN057770.D
Acq On : 7 Sep 2019 21:21
Operator : JC/SP
Sample : K4601-25
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-E4-(0)

Quant Time: Sep 08 06:40:55 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	191110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	312615	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	286155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	147724	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	233607	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
35) Dibromofluoromethane	7.58	113	141810	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	
50) Toluene-d8	10.08	98	540050	51.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.54%	
62) 4-Bromofluorobenzene	12.40	95	197147	45.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.12%	

Target Compounds

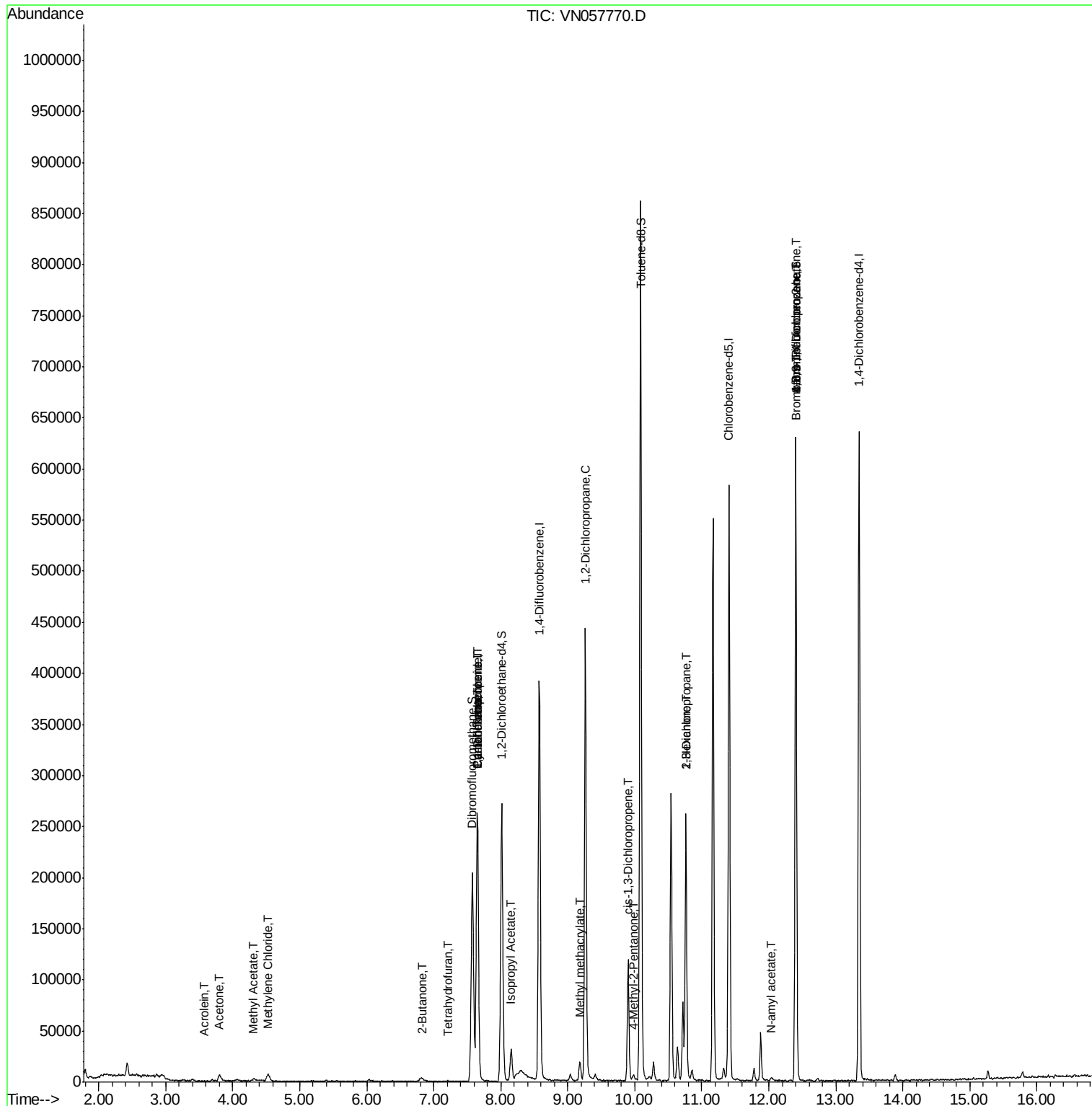
					Qvalue	
3) Chloromethane	2.04	50	479	Below Cal	#	42
13) Acrolein	3.58	56	62	0.247	ug/l #	15
16) Acetone	3.80	43	11002	7.690	ug/l	99
18) Methyl Acetate	4.31	43	1038	0.267	ug/l #	62
20) Methylene Chloride	4.54	84	4958	1.603	ug/l	92
25) 2-Butanone	6.84	43	2026	0.989	ug/l #	55
29) Tetrahydrofuran	7.22	42	359	0.272	ug/l #	57
31) Cyclohexane	7.65	56	5802	1.112	ug/l #	24
36) 1,1-Dichloropropene	7.65	75	18054	4.341	ug/l #	53
38) Carbon Tetrachloride	7.65	117	20768	5.215	ug/l #	17
43) Isopropyl Acetate	8.16	43	36906	4.657	ug/l	99
45) 1,2-Dichloropropane	9.27	63	675	0.205	ug/l #	44
48) Methyl methacrylate	9.18	41	1664	0.408	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	4089	0.929	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	17894	3.681	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	2143	0.416	ug/l #	43
59) 2-Hexanone	10.76	43	44361	14.294	ug/l #	59
71) Bromoform	12.39	173	258	3.366	ug/l #	1
74) N-amyl acetate	12.04	43	2785	0.427	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	119328	35.176	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119328	109.398	ug/l #	1

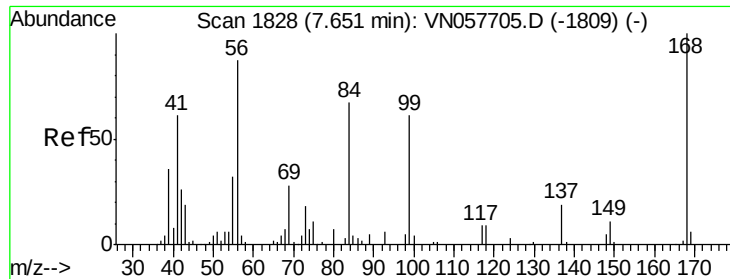
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

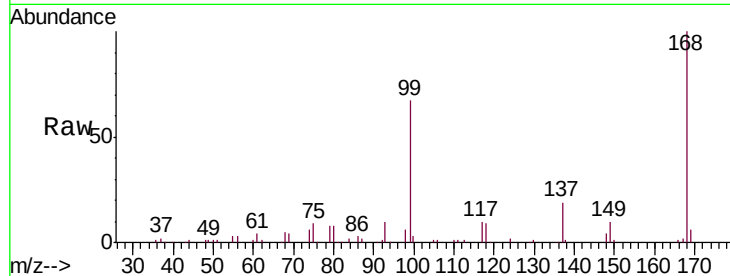
T12-E4-(0)

Tgt Ion:168 Resp: 191110

Ion Ratio Lower Upper

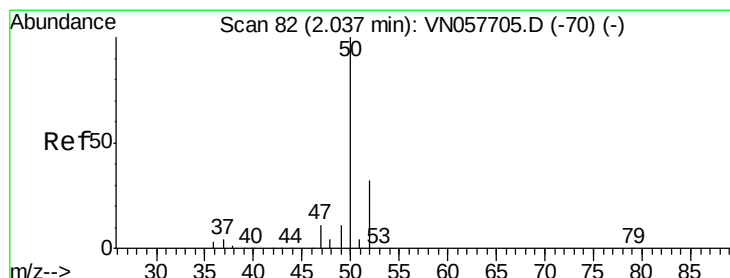
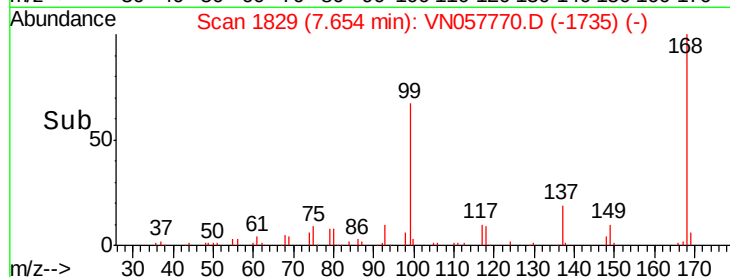
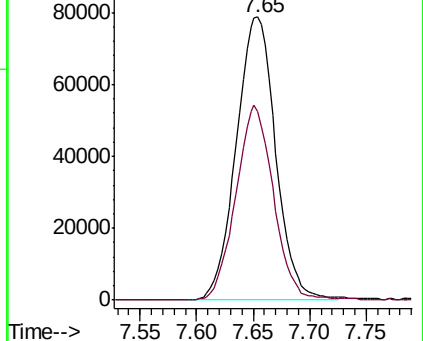
168 100

99 66.6 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057770.D

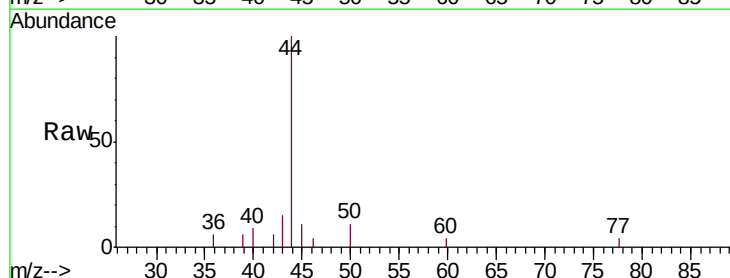
Acq: 7 Sep 2019 21:21

Tgt Ion: 50 Resp: 479

Ion Ratio Lower Upper

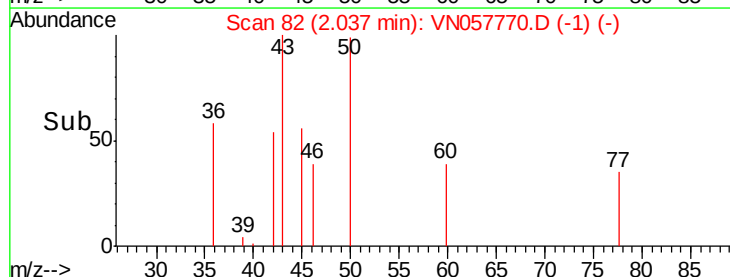
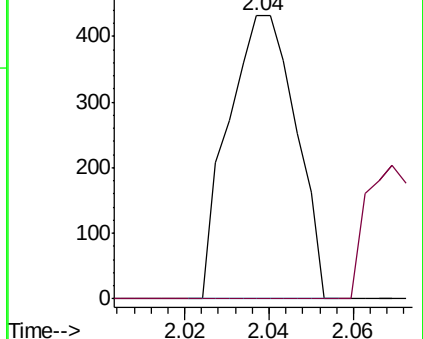
50 100

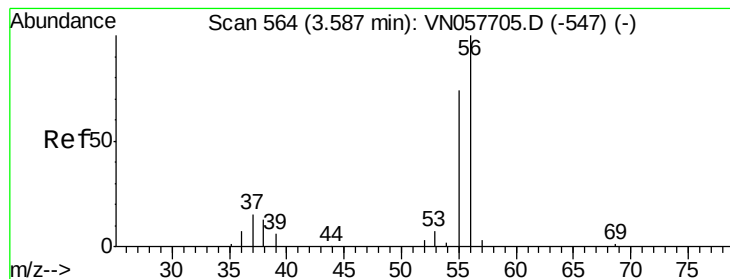
52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#13

Acrolein

Concen: 0.247 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.01 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampled :

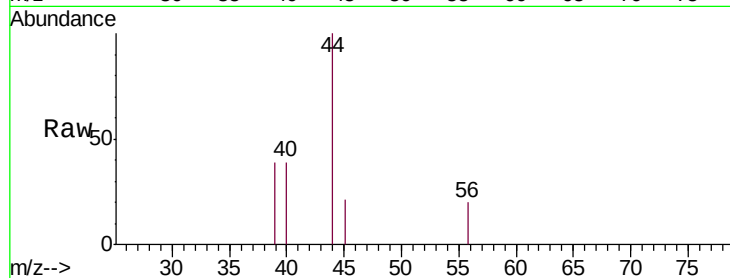
T12-E4-(0)

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.58

150

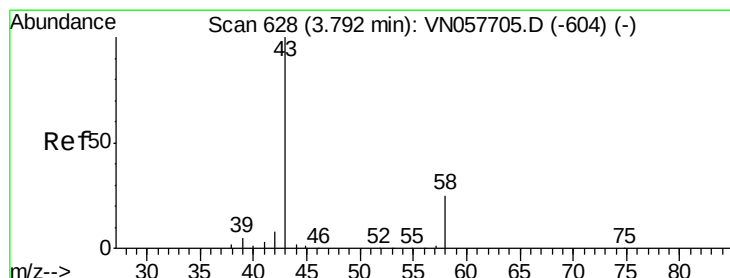
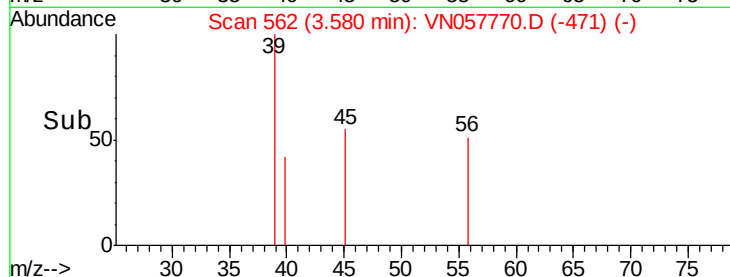
100

50

0

3.57 3.58 3.59

Time-->



#16

Acetone

Concen: 7.690 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN057770.D

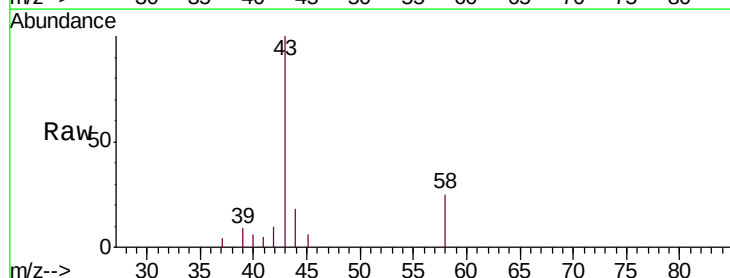
Acq: 7 Sep 2019 21:21

Tgt Ion: 43 Resp: 11002

Ion Ratio Lower Upper

43 100

58 25.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

4000

3000

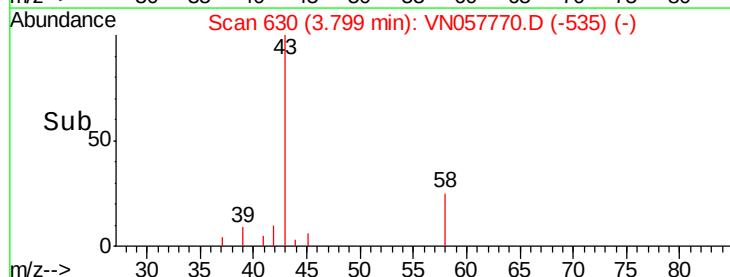
2000

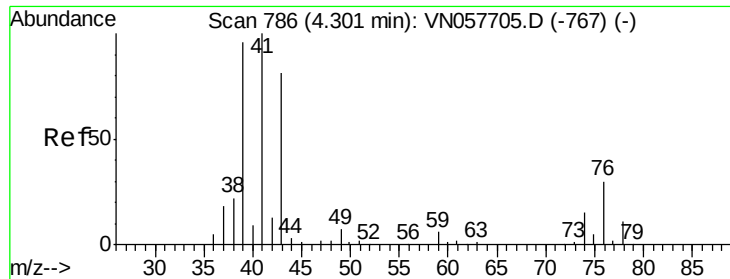
1000

0

3.75 3.80 3.85

Time-->

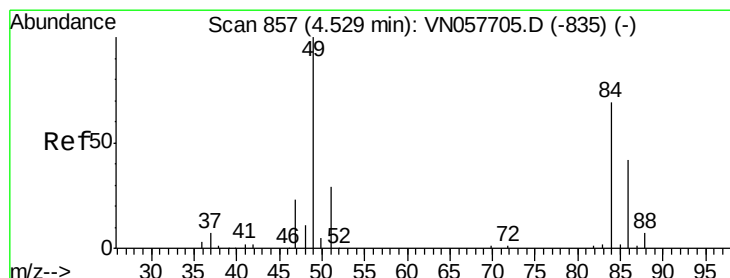
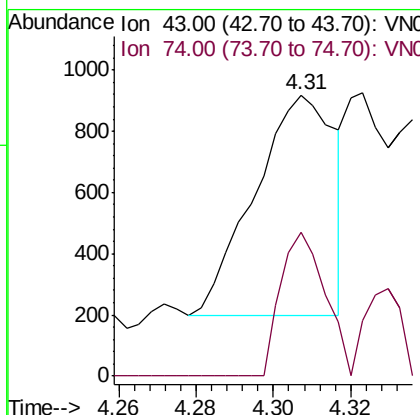
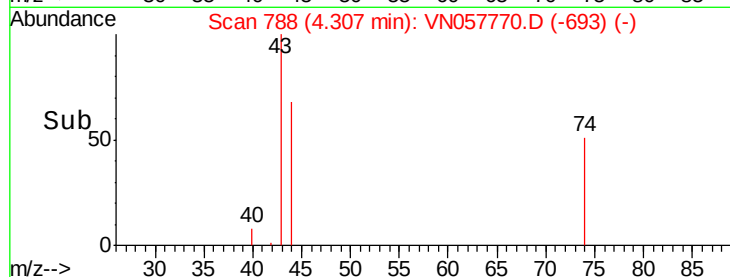
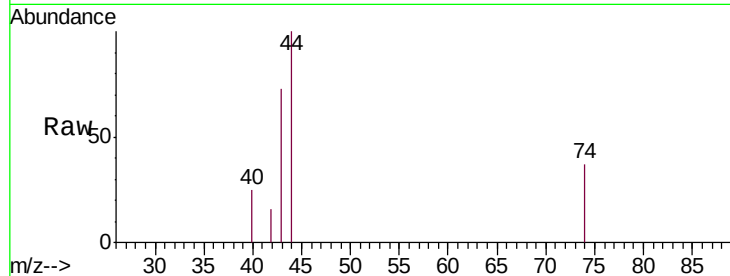




#18
Methyl Acetate
Concen: 0.267 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

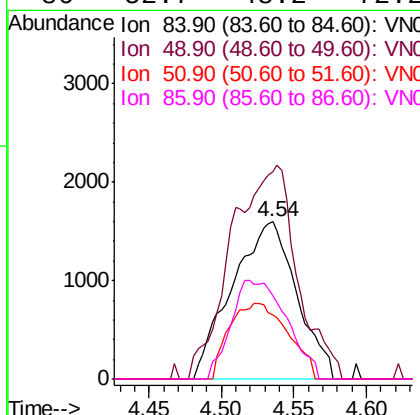
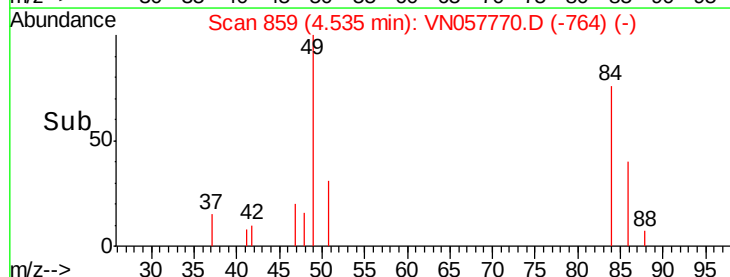
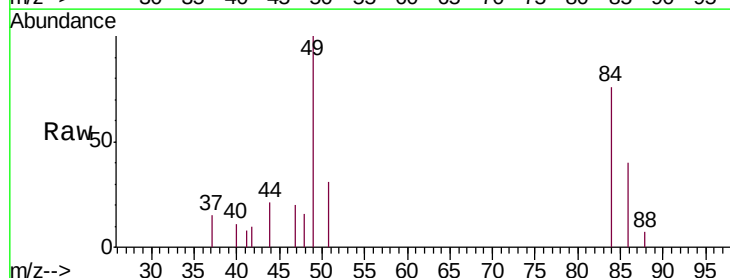
Instrument :
MSVOA_N
ClientSampled :
T12-E4-(0)

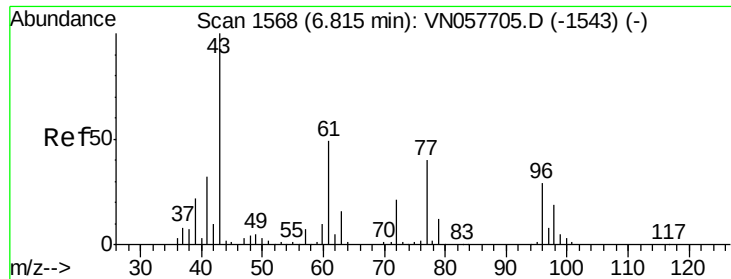
Tgt Ion: 43 Resp: 1038
Ion Ratio Lower Upper
43 100
74 36.2 15.3 22.9#



#20
Methylene Chloride
Concen: 1.603 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

Tgt Ion: 84 Resp: 4958
Ion Ratio Lower Upper
84 100
49 132.2 115.0 172.6
51 40.6 33.8 50.8
86 52.7 48.2 72.2





#25

2-Butanone

Concen: 0.989 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.03 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

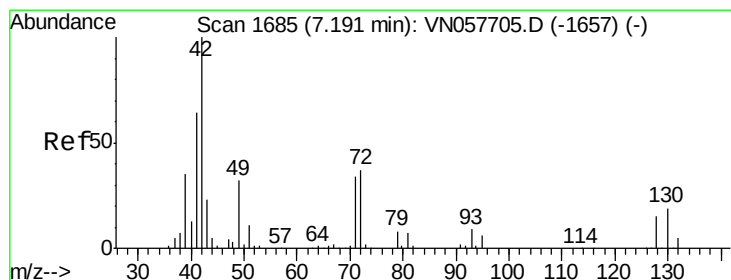
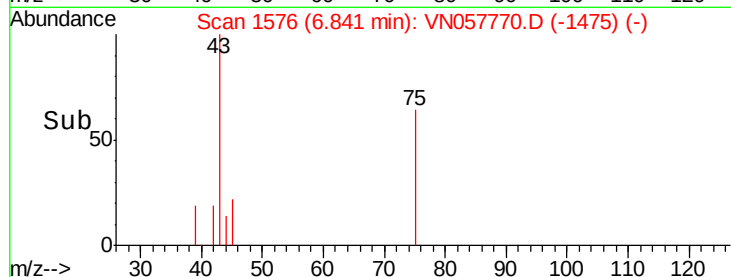
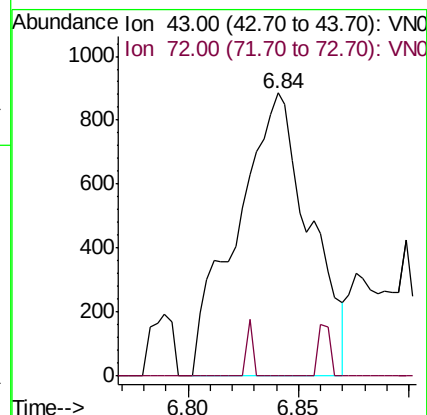
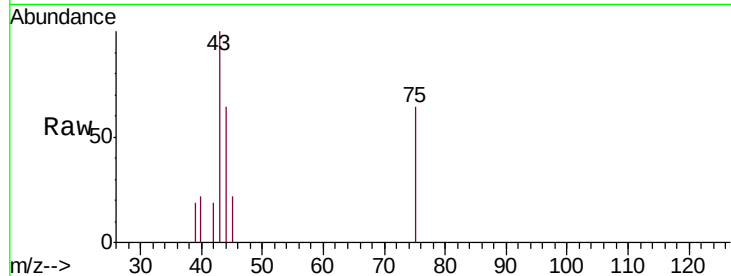
T12-E4-(0)

Tgt Ion: 43 Resp: 2026

Ion Ratio Lower Upper

43 100

72 0.0 17.0 25.6#



#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.03 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

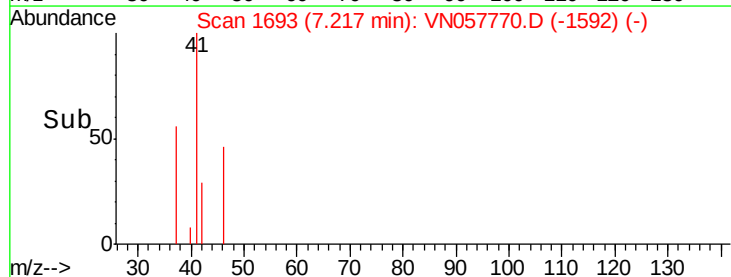
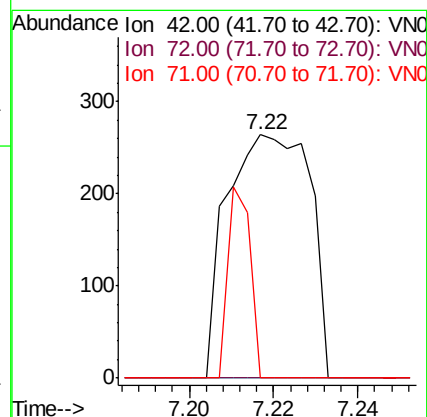
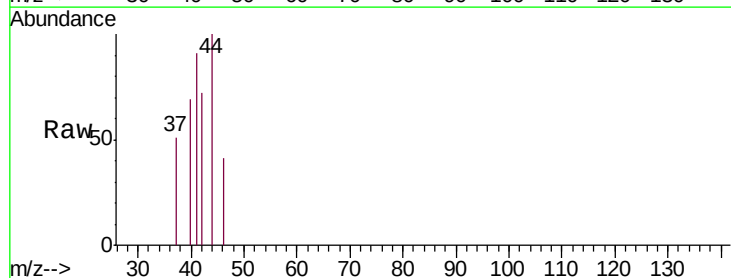
Tgt Ion: 42 Resp: 359

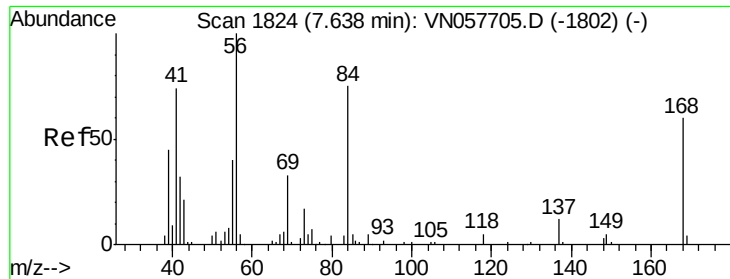
Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

71 20.9 27.0 40.4#

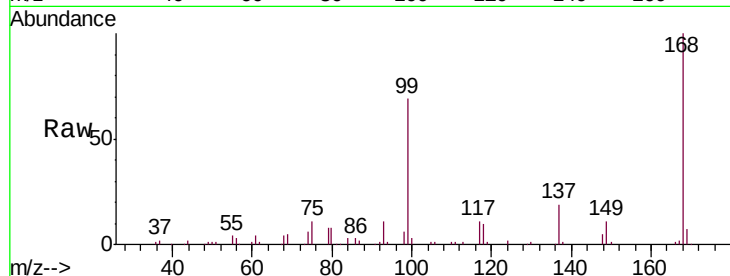




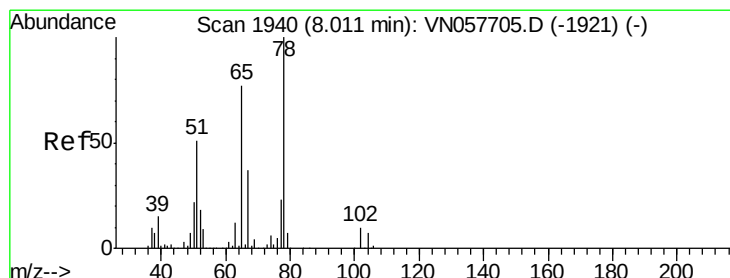
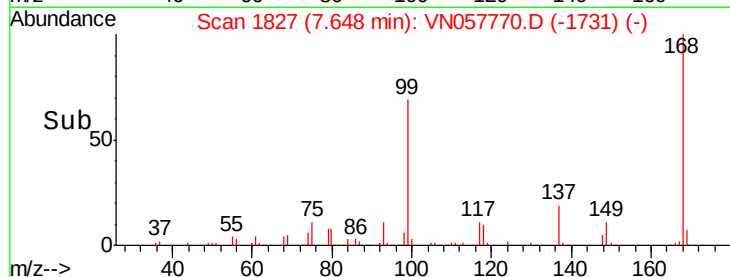
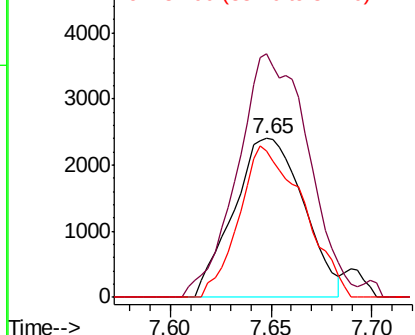
#31
Cyclohexane
Concen: 1.112 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

Instrument :
MSVOA_N
ClientSampleId :
T12-E4-(0)

Tgt Ion: 56 Resp: 5802
Ion Ratio Lower Upper
56 100
69 146.8 26.2 39.2#
84 92.0 59.8 89.8#

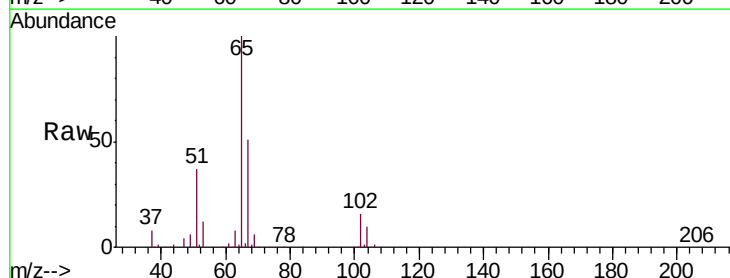


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

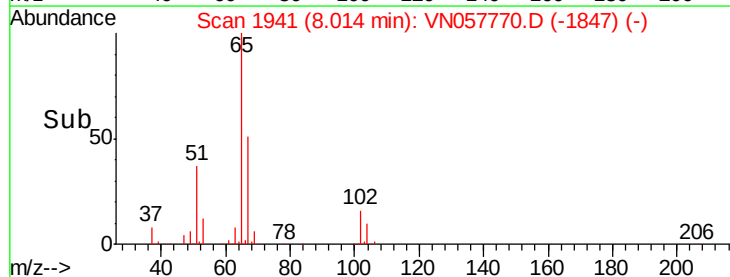
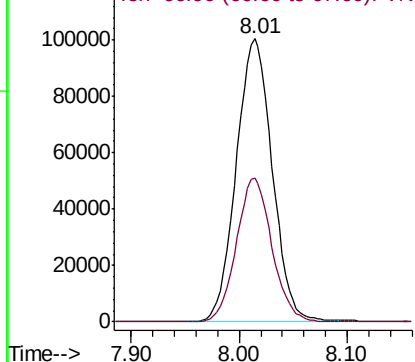


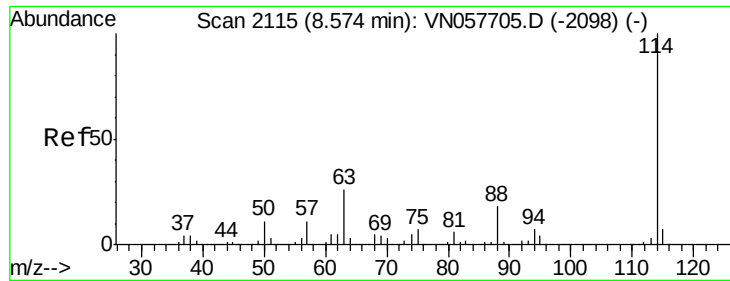
#33
1,2-Dichloroethane-d4
Concen: 50.248 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

Tgt Ion: 65 Resp: 233607
Ion Ratio Lower Upper
65 100
67 50.0 0.0 98.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

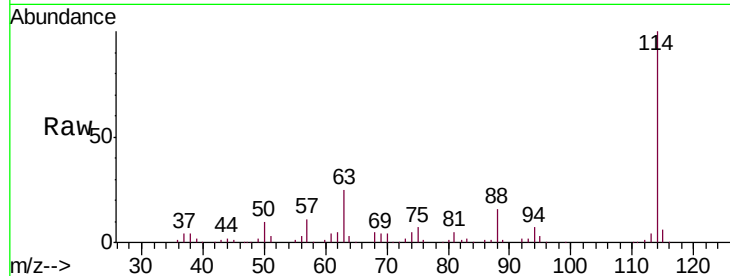




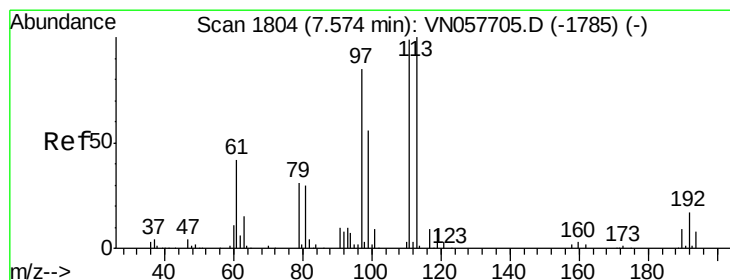
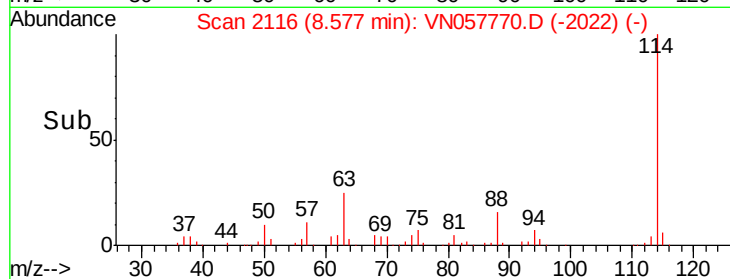
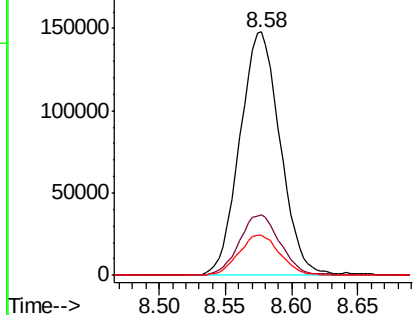
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

Instrument :
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T12-E4-(0)

Tgt Ion:114 Resp: 312615
Ion Ratio Lower Upper
114 100
63 24.7 0.0 52.4
88 16.3 0.0 35.4

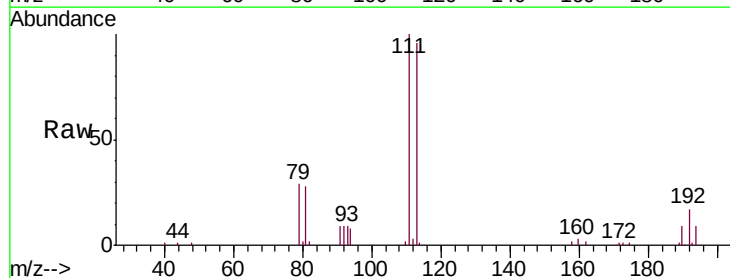


Abundance Ion 113.90 (113.60 to 114.60): V
200000 Ion 63.00 (62.70 to 63.70): VN
150000 Ion 87.90 (87.60 to 88.60): VN
100000
50000
0

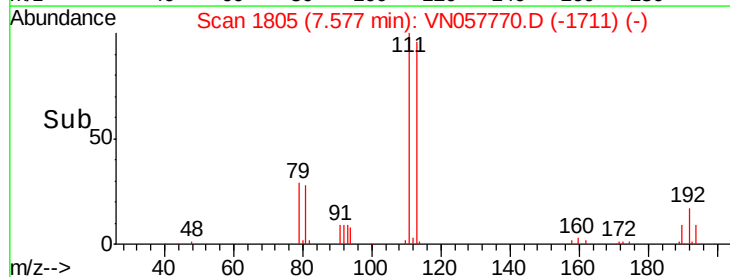
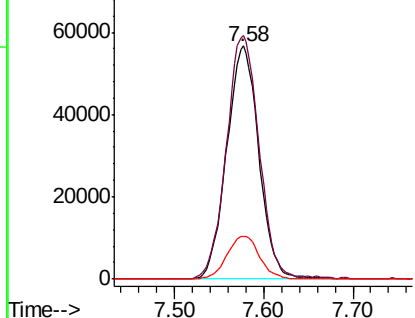


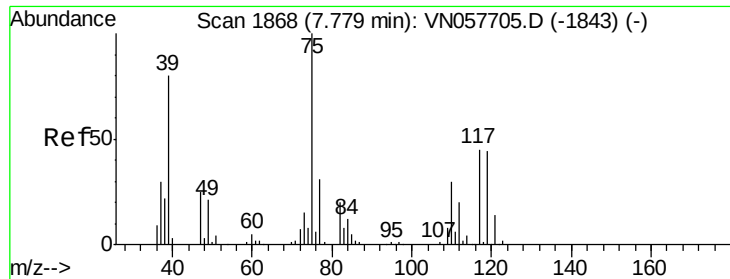
#35
Dibromofluoromethane
Concen: 49.802 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

Tgt Ion:113 Resp: 141810
Ion Ratio Lower Upper
113 100
111 105.7 82.7 124.1
192 18.6 13.8 20.6



Abundance Ion 112.80 (112.50 to 113.50): V
80000 Ion 110.80 (110.50 to 111.50): V
60000 Ion 191.70 (191.40 to 192.40): V
40000
20000
0

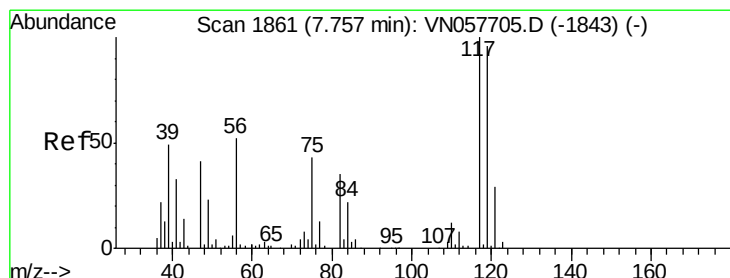
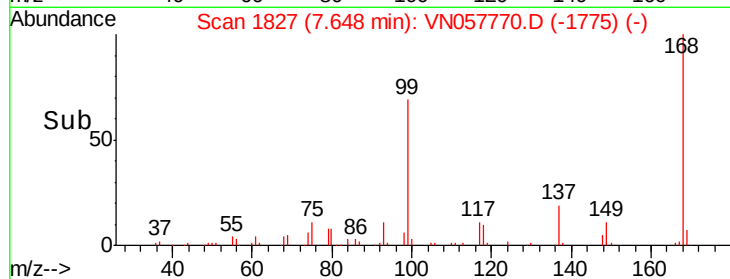
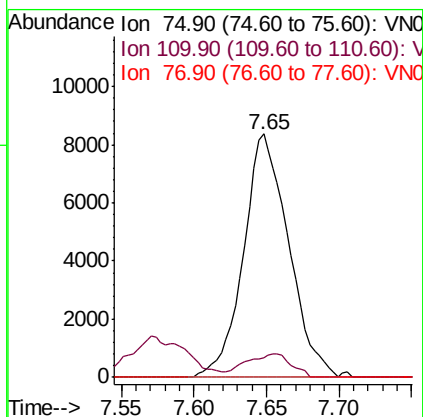
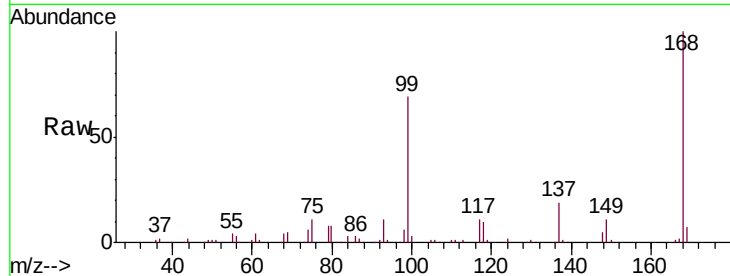




#36
 1,1-Dichloropropene
 Concen: 4.341 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057770.D
 Acq: 7 Sep 2019 21:21

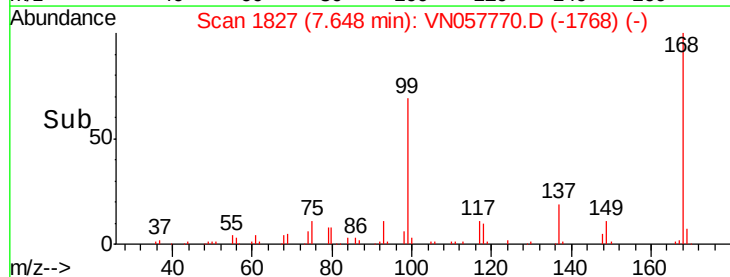
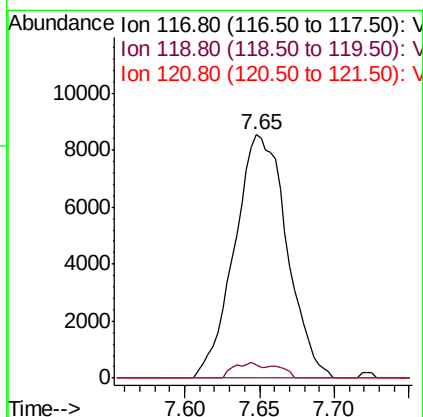
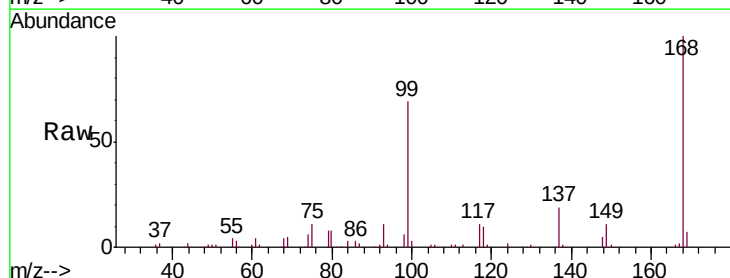
Instrument :
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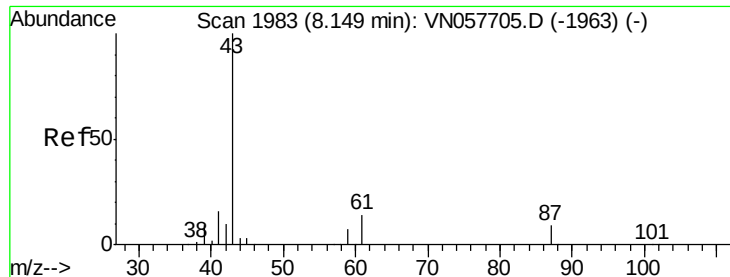
Tgt Ion: 75 Resp: 18054
 Ion Ratio Lower Upper
 75 100
 110 9.9 15.0 45.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.215 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN057770.D
 Acq: 7 Sep 2019 21:21

Tgt Ion: 117 Resp: 20768
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.1 114.1#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 4.657 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

T12-E4-(0)

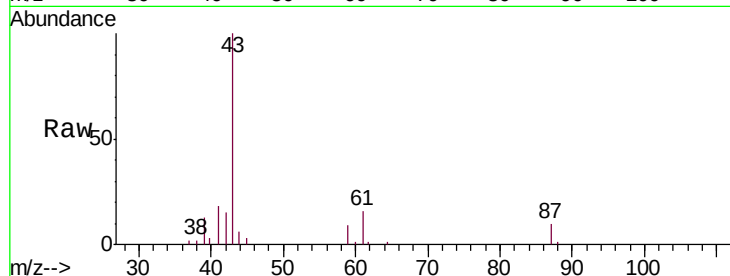
Tgt Ion: 43 Resp: 36906

Ion Ratio Lower Upper

43 100

61 16.6 12.8 19.2

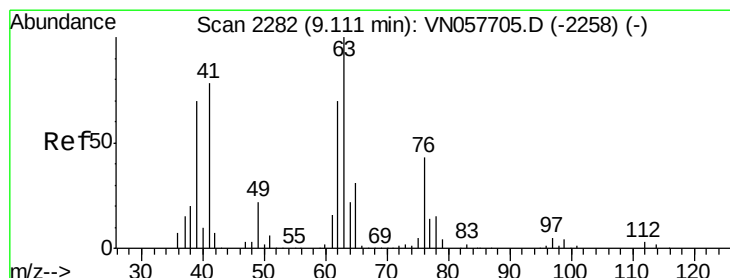
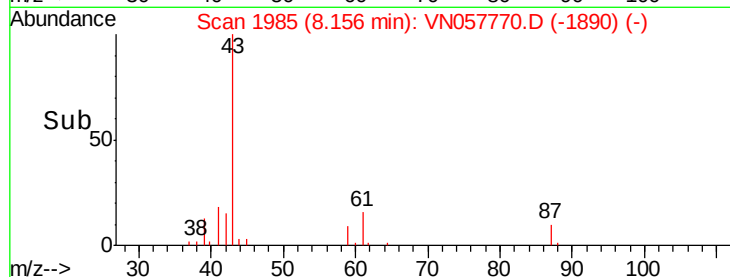
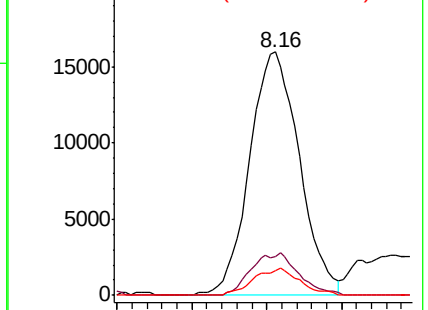
87 10.4 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN057770.D (-2189) (-)

Ion 61.00 (60.70 to 61.70): VN057770.D (-2189) (-)

Ion 87.00 (86.70 to 87.70): VN057770.D (-2189) (-)



#45

1,2-Dichloropropane

Concen: 0.205 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.16 min

Lab File: VN057770.D

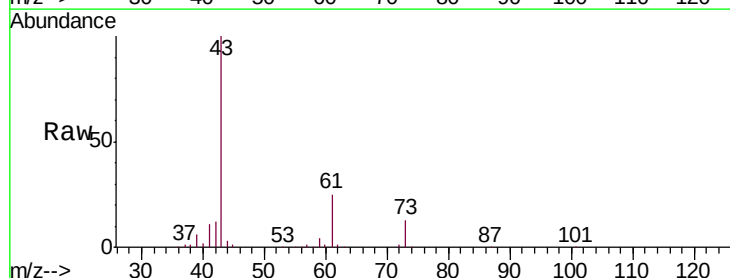
Acq: 7 Sep 2019 21:21

Tgt Ion: 63 Resp: 675

Ion Ratio Lower Upper

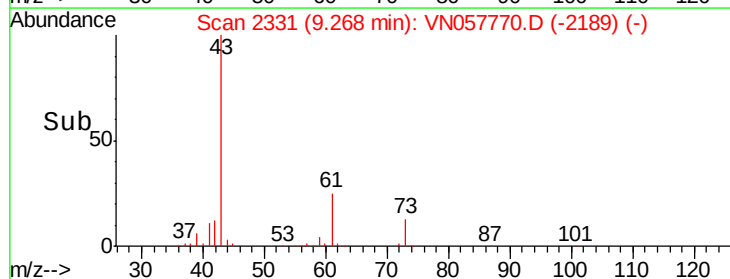
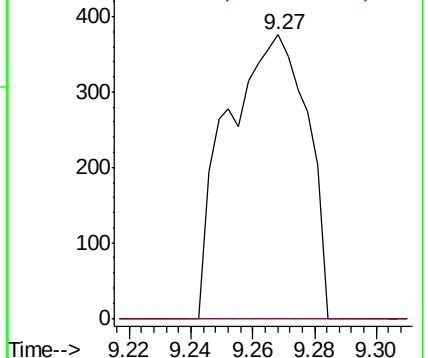
63 100

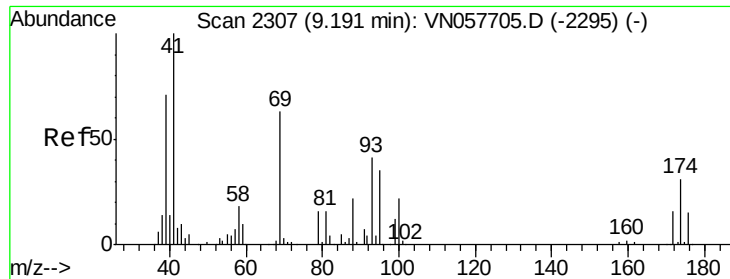
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN057770.D (-2189) (-)

Ion 64.90 (64.60 to 65.60): VN057770.D (-2189) (-)

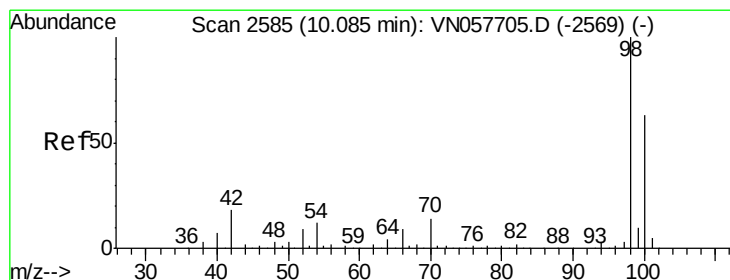
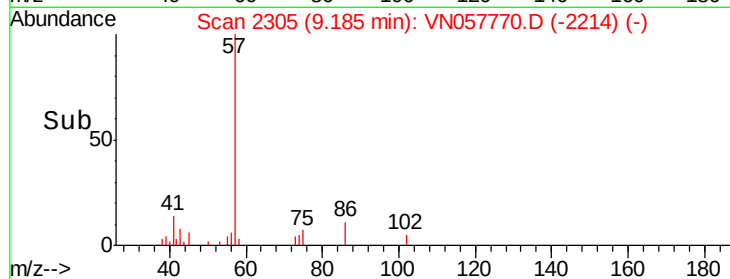
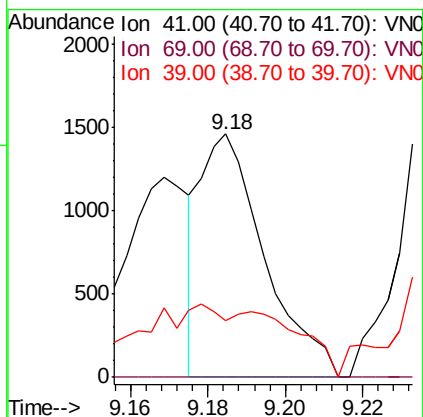
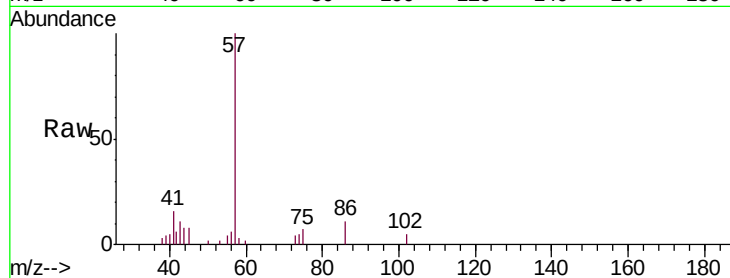




#48
Methyl methacrylate
Concen: 0.408 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

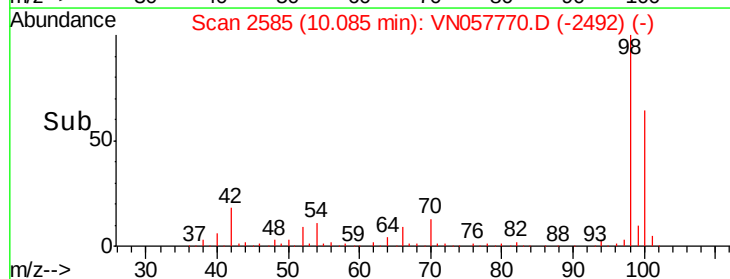
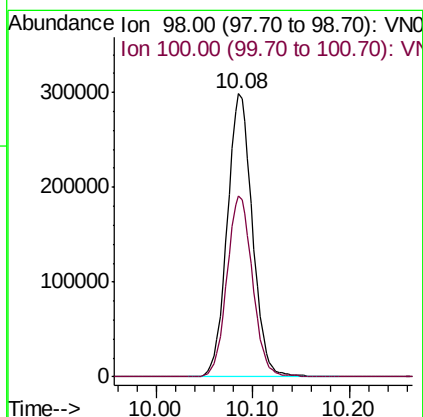
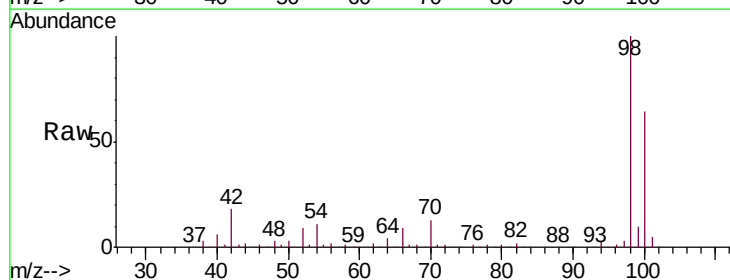
Instrument :
MSVOA_N
ClientSampleId :
T12-E4-(0)

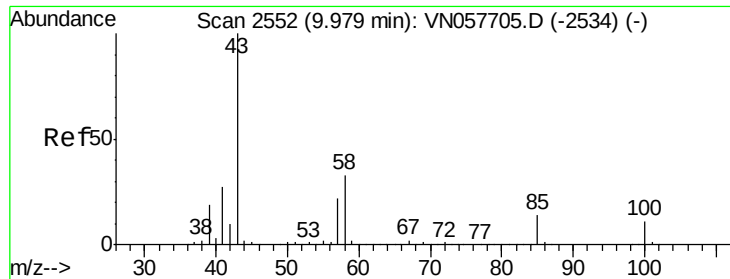
Tgt Ion: 41 Resp: 1664
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#



#50
Toluene-d8
Concen: 51.270 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057770.D
Acq: 7 Sep 2019 21:21

Tgt Ion: 98 Resp: 540050
Ion Ratio Lower Upper
98 100
100 64.8 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.929 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

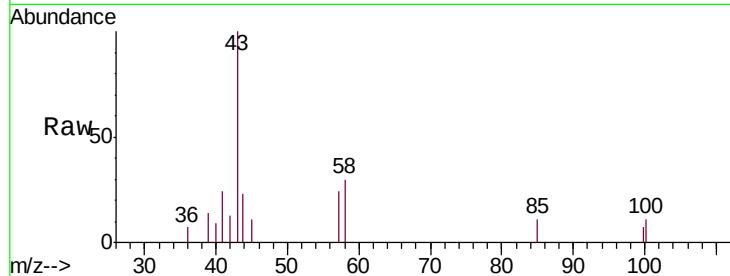
T12-E4-(0)

Tgt Ion: 43 Resp: 4089

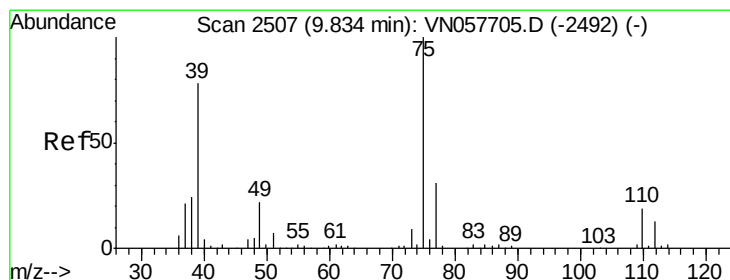
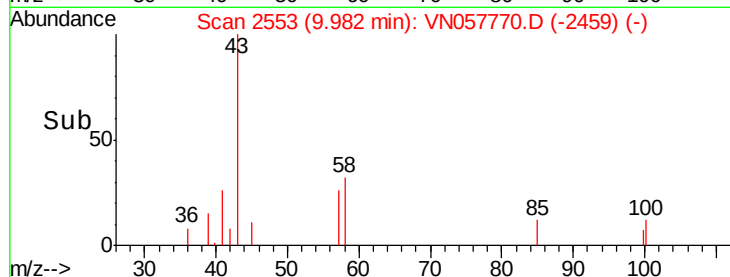
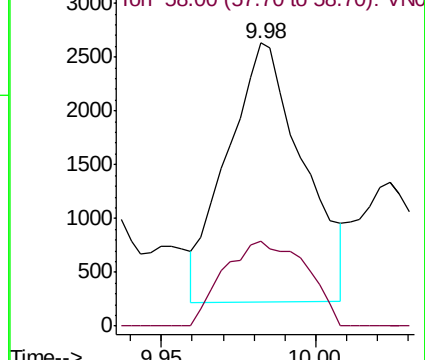
Ion Ratio Lower Upper

43 100

58 35.9 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN057770.D (-2459) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.681 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

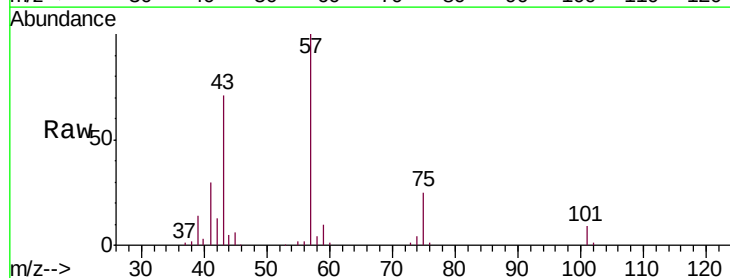
Tgt Ion: 75 Resp: 17894

Ion Ratio Lower Upper

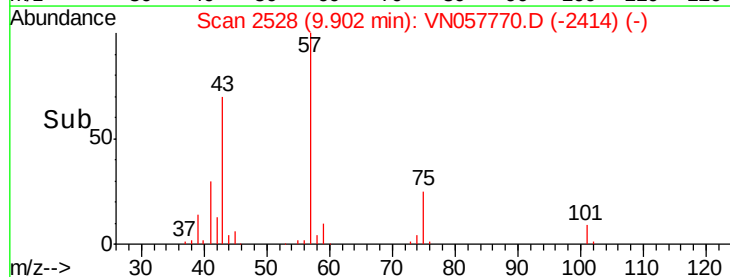
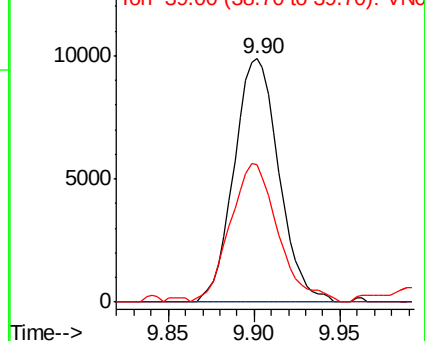
75 100

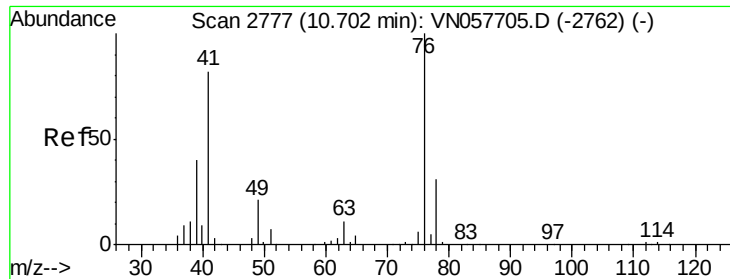
77 0.0 25.1 37.7#

39 56.4 62.4 93.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057770.D (-2414) (-)

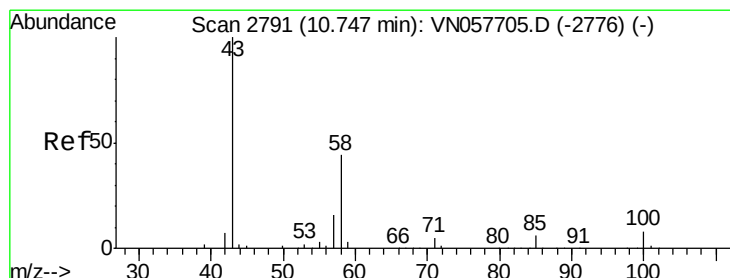
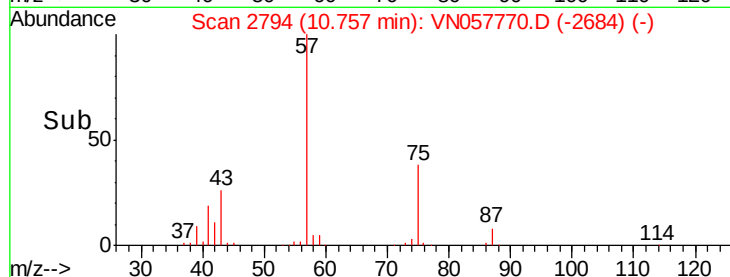
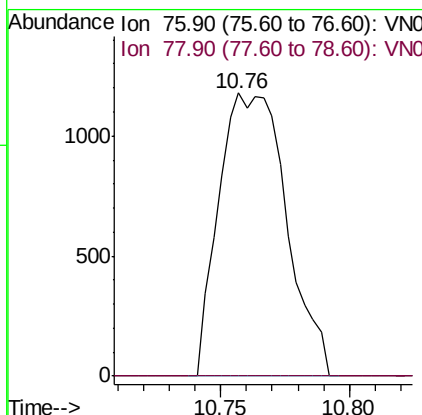
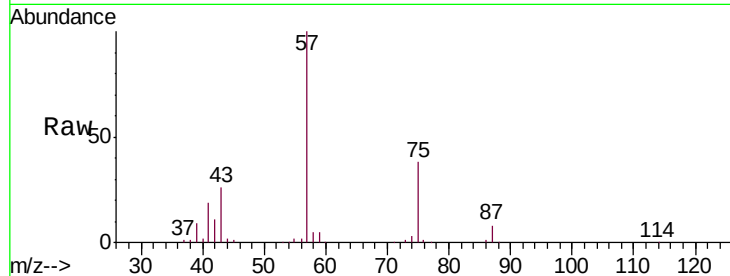




#57
 1,3-Dichloropropane
 Concen: 0.416 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.05 min
 Lab File: VN057770.D
 Acq: 7 Sep 2019 21:21

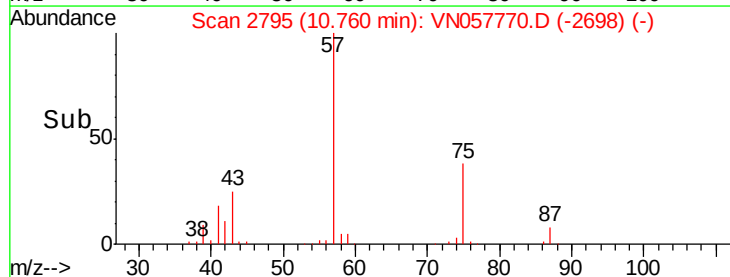
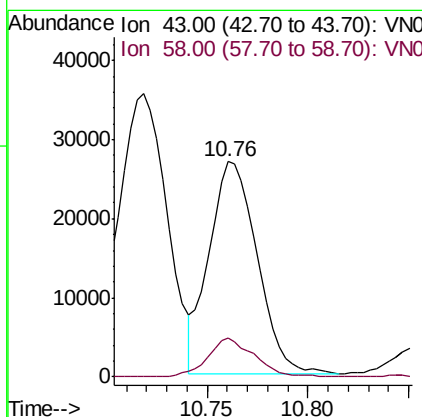
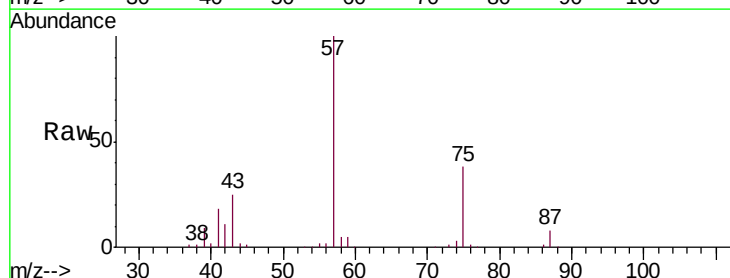
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E4-(0)

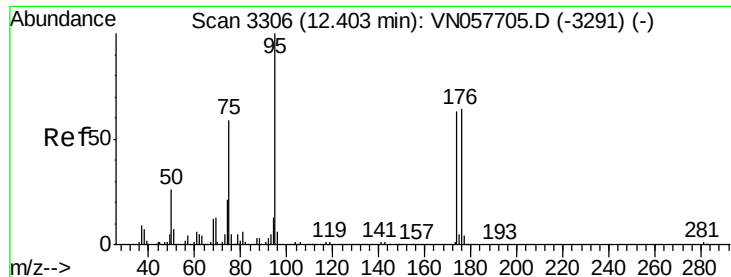
Tgt Ion: 76 Resp: 2143
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 14.294 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN057770.D
 Acq: 7 Sep 2019 21:21

Tgt Ion: 43 Resp: 44361
 Ion Ratio Lower Upper
 43 100
 58 17.6 22.1 66.5#





#62

4-Bromofluorobenzene

Concen: 45.061 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

T12-E4-(0)

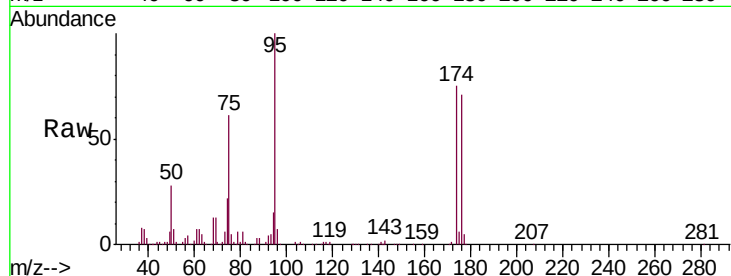
Tgt Ion: 95 Resp: 197147

Ion Ratio Lower Upper

95 100

174 74.2 0.0 128.0

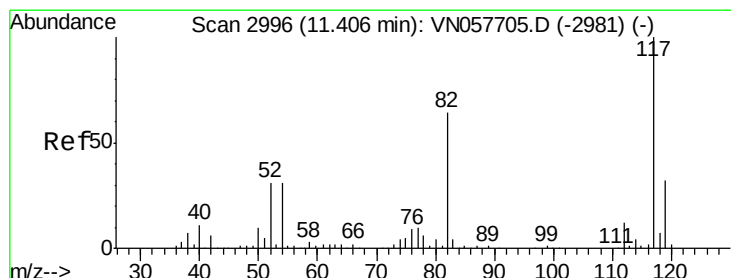
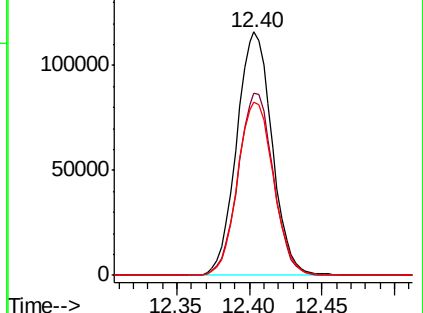
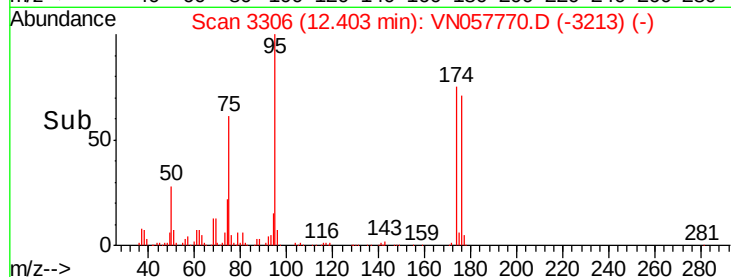
176 72.4 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): VN057770.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN057770.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN057770.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

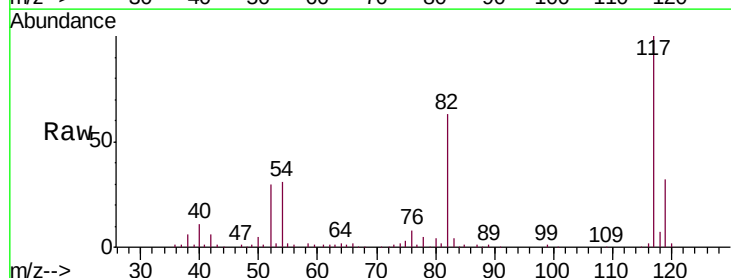
Tgt Ion: 117 Resp: 286155

Ion Ratio Lower Upper

117 100

82 62.6 51.4 77.0

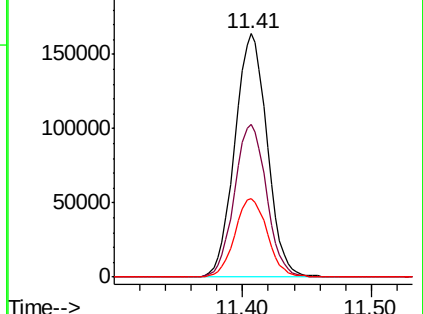
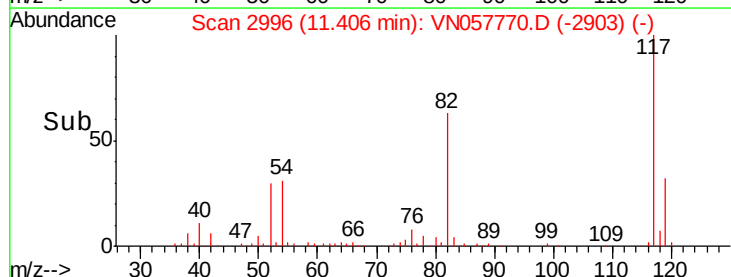
119 32.2 25.4 38.2

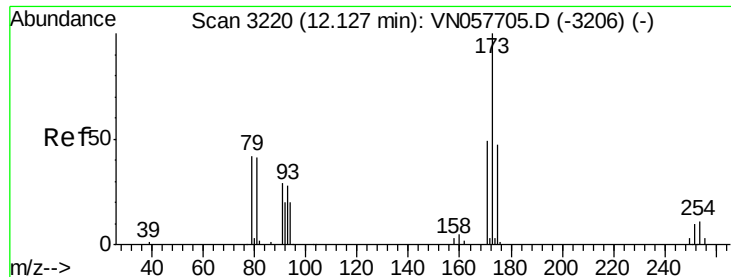


Abundance Ion 116.90 (116.60 to 117.60): VN057770.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057770.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057770.D (-2903) (-)





#71

Bromoform

Concen: 3.366 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

T12-E4-(0)

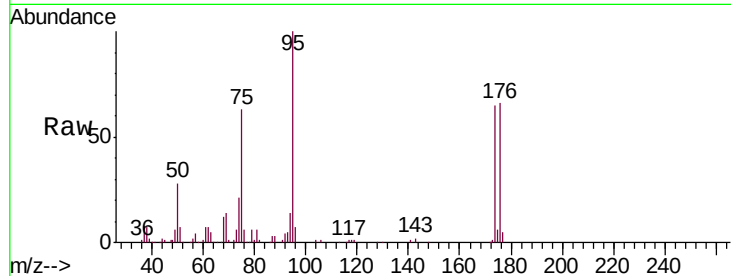
Tgt Ion:173 Resp: 258

Ion Ratio Lower Upper

173 100

175 3753.5 24.6 73.8#

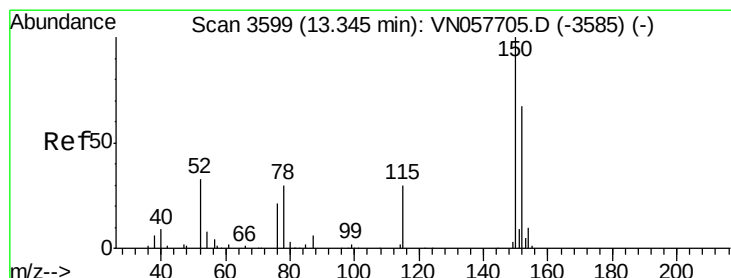
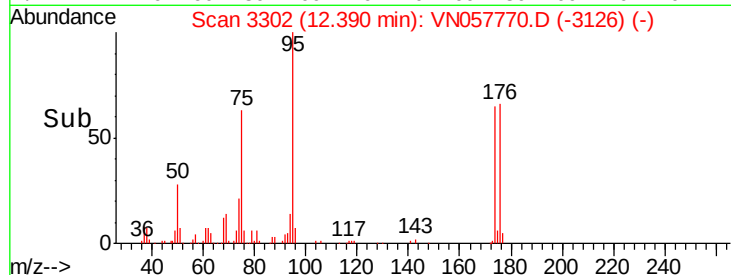
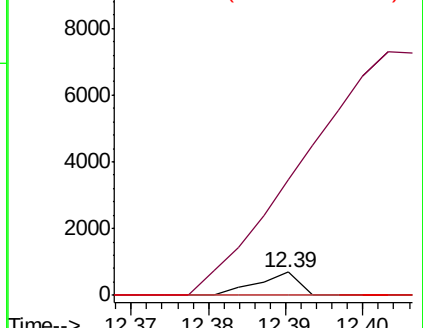
254 0.0 0.0 0.0



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

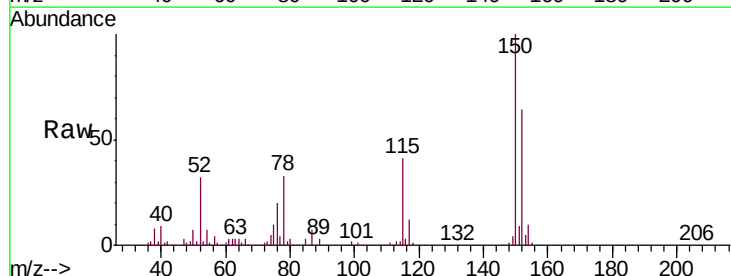
Tgt Ion:152 Resp: 147724

Ion Ratio Lower Upper

152 100

115 64.8 33.8 101.3

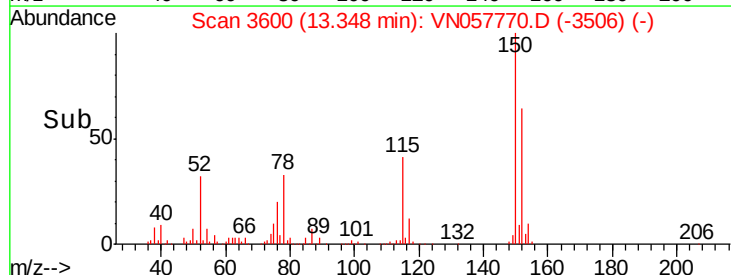
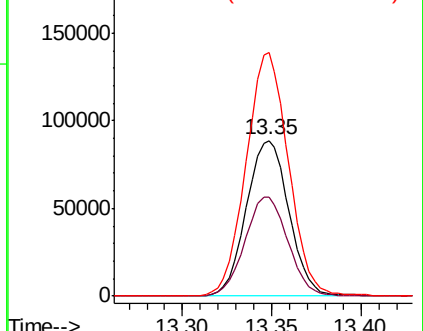
150 156.2 0.0 345.4

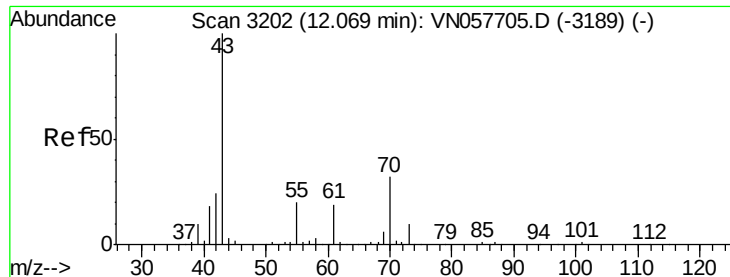


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.427 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057770.D

Acq: 7 Sep 2019 21:21

Instrument :

MSVOA_N

ClientSampleId :

T12-E4-(0)

Tgt Ion: 43 Resp: 2785

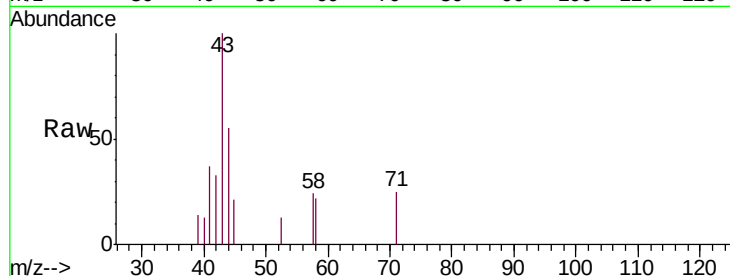
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 0.0 16.3 24.5#

61 0.0 15.0 22.4#

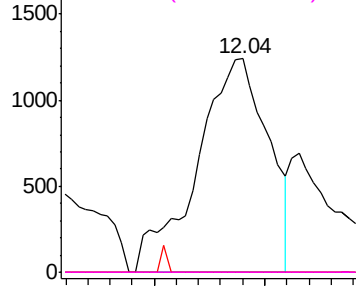


Abundance Ion 43.00 (42.70 to 43.70): VN0

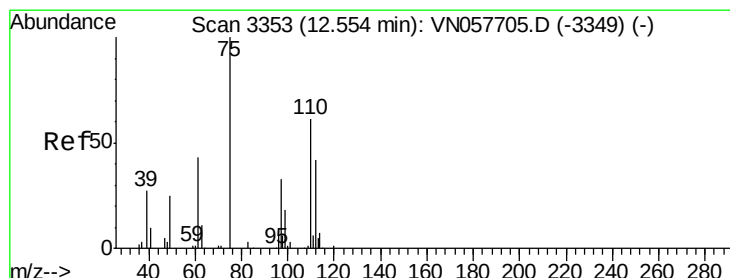
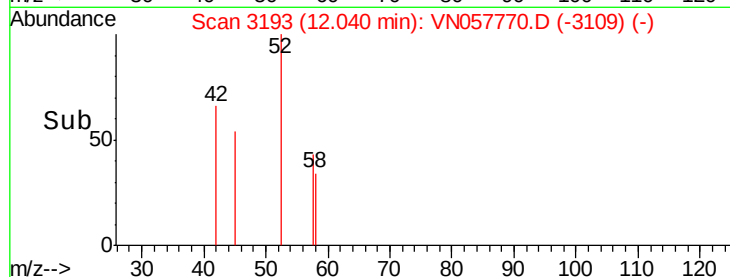
Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 35.176 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057770.D

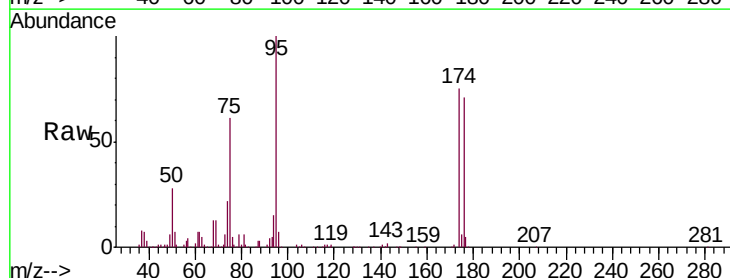
Acq: 7 Sep 2019 21:21

Tgt Ion: 75 Resp: 119328

Ion Ratio Lower Upper

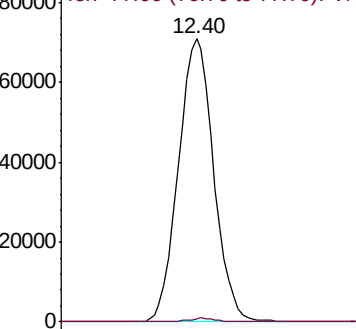
75 100

77 1.1 0.0 0.0#

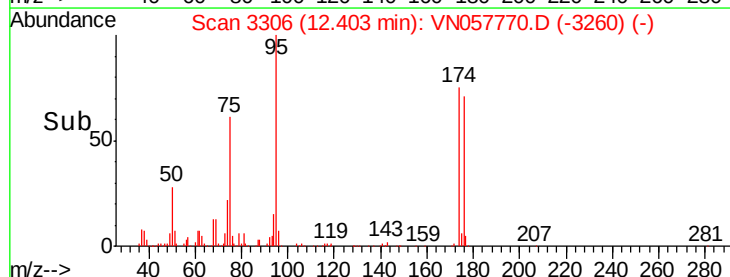


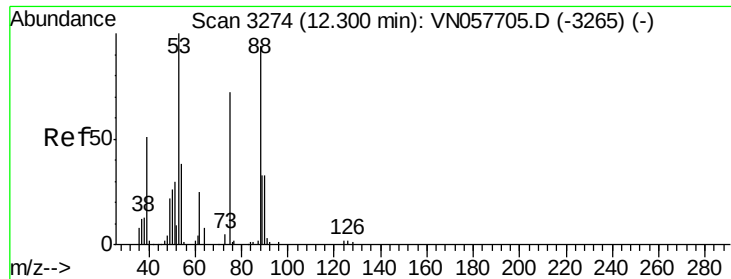
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->





#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.398 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057770.D
 Acq: 7 Sep 2019 21:21

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E4-(0)

Tgt Ion: 75 Resp: 119328
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

