

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057849.D
 Acq On : 10 Sep 2019 10:10
 Operator : JC/SP
 Sample : K4781-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 11:01:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	287171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	483975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	435651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224864	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	307730	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
35) Dibromofluoromethane	7.58	113	206303	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
50) Toluene-d8	10.09	98	839085	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
62) 4-Bromofluorobenzene	12.40	95	271019	41.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.02%	

Target Compounds

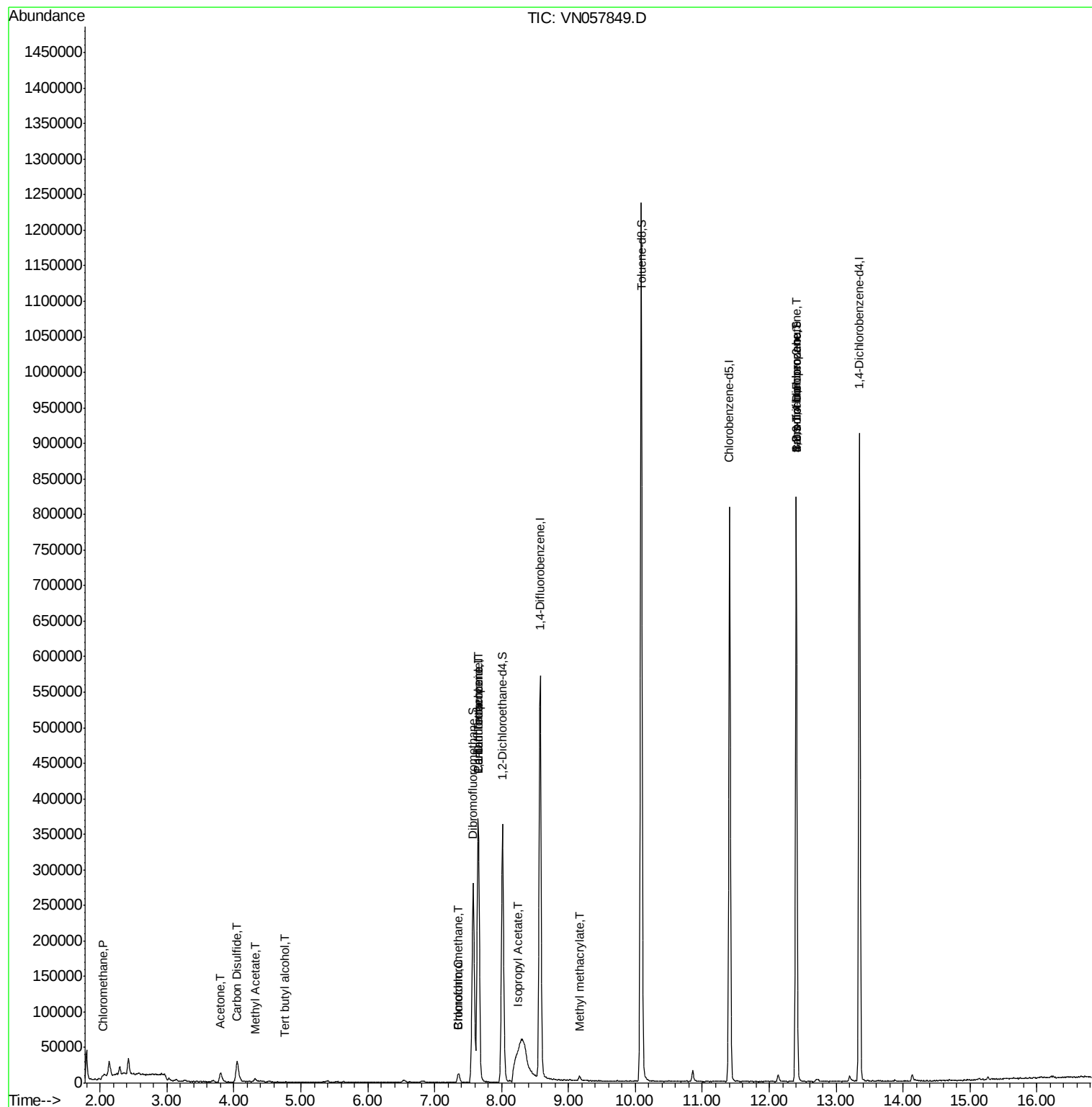
					Qvalue	
3) Chloromethane	2.04	50	904	0.223	ug/l	98
5) Bromomethane	2.55	94	309	Below Cal	#	2
11) Tert butyl alcohol	4.76	59	576	0.818	ug/l #	72
16) Acetone	3.81	43	22192	11.639	ug/l	98
17) Carbon Disulfide	4.03	76	1786	0.533	ug/l #	75
18) Methyl Acetate	4.31	43	5245	1.032	ug/l	95
20) Methylene Chloride	4.53	84	973	Below Cal	#	43
28) Bromochloromethane	7.35	49	943	0.246	ug/l #	19
30) Chloroform	7.36	83	11912	1.485	ug/l	97
31) Cyclohexane	7.65	56	7856	Below Cal	#	22
36) 1,1-Dichloropropene	7.65	75	25029	4.459	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30440	5.940	ug/l #	15
43) Isopropyl Acetate	8.23	43	48491	4.972	ug/l #	57
48) Methyl methacrylate	9.16	41	2880	0.582	ug/l #	44
71) Bromoform	12.41	173	2560	1.038	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	151053	29.695	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151053	104.497	ug/l #	6
95) Naphthalene	15.13	128	1611	Below Cal	#	83

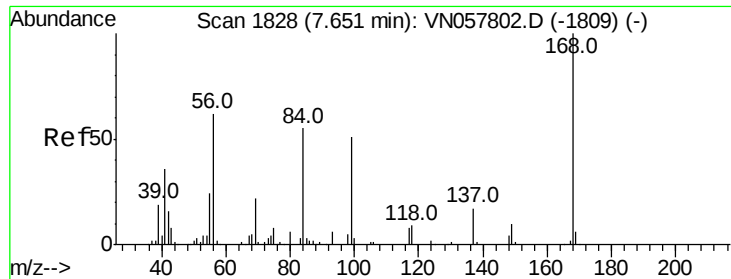
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

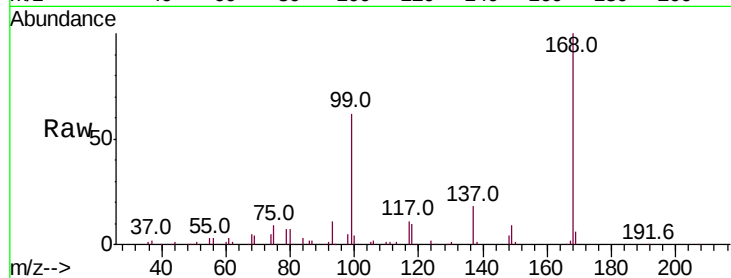
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 287171

Ion Ratio Lower Upper

168 100

99 61.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

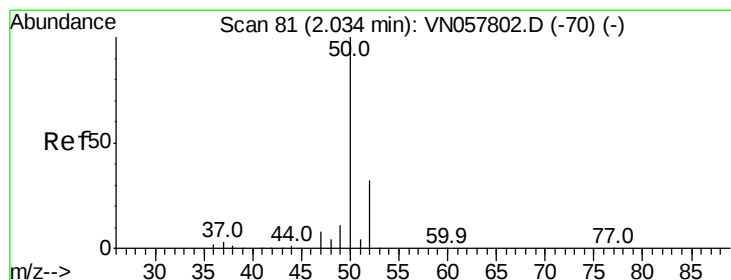
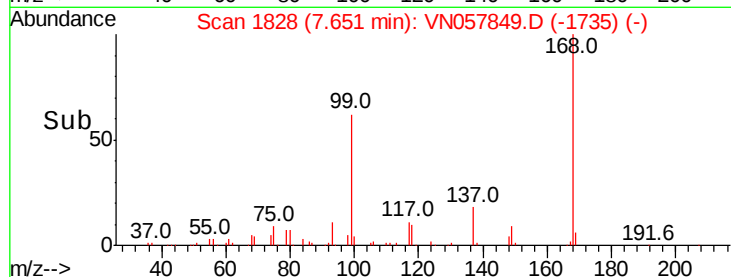
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.223 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN057849.D

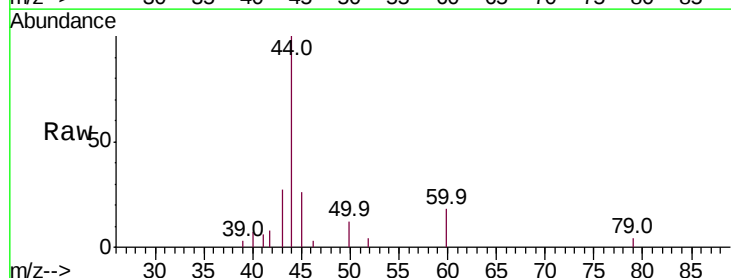
Acq: 10 Sep 2019 10:10

Tgt Ion: 50 Resp: 904

Ion Ratio Lower Upper

50 100

52 33.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

600

500

400

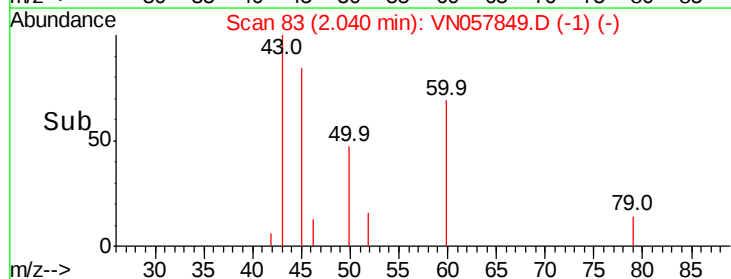
300

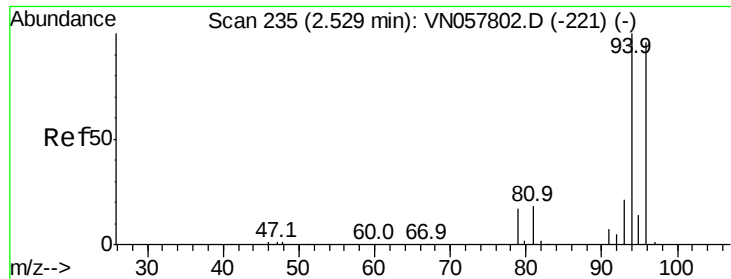
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :

MSVOA_N

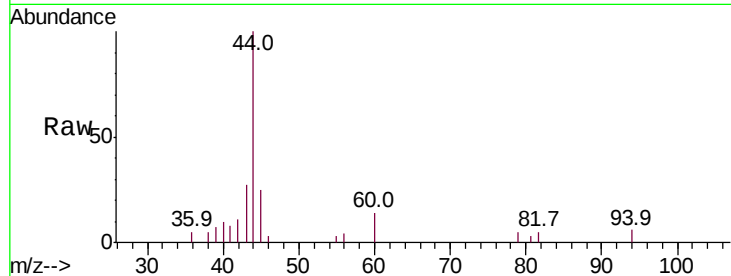
ClientSampled :

Tot Ion: 94 Resp: 309

Ion Ratio Lower Upper

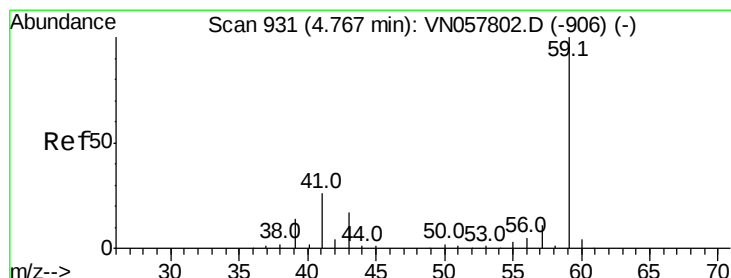
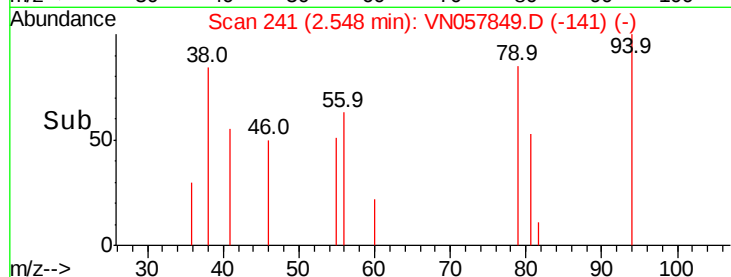
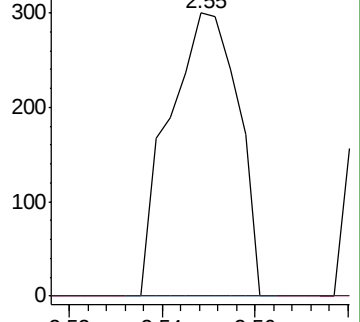
94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.818 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.01 min

Lab File: VN057849.D

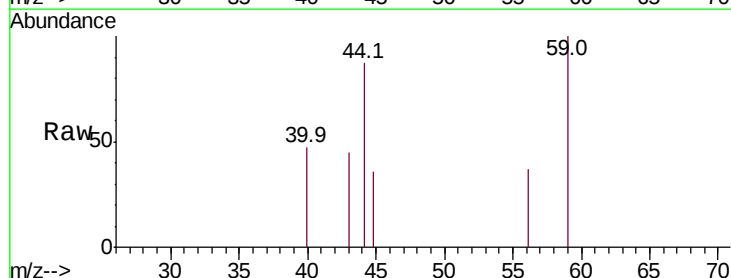
Acq: 10 Sep 2019 10:10

Tgt Ion: 59 Resp: 576

Ion Ratio Lower Upper

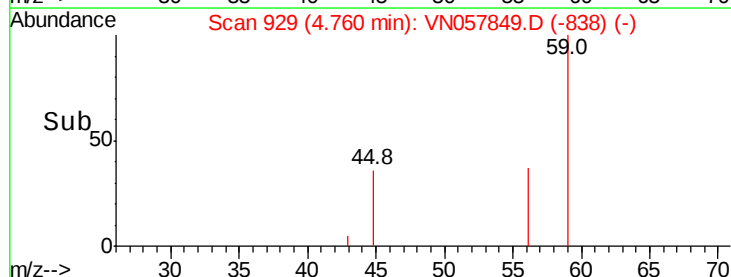
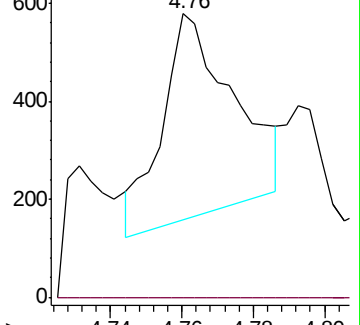
59 100

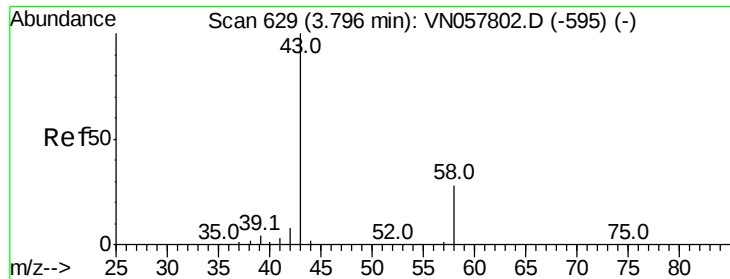
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 11.639 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :

MSVOA_N

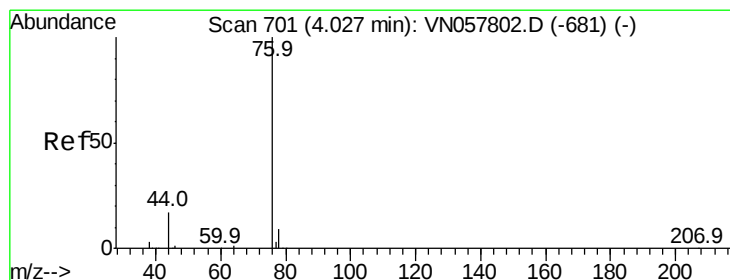
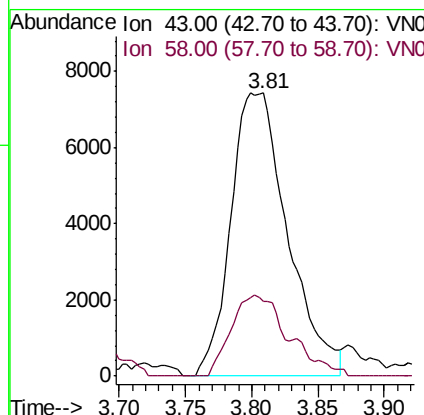
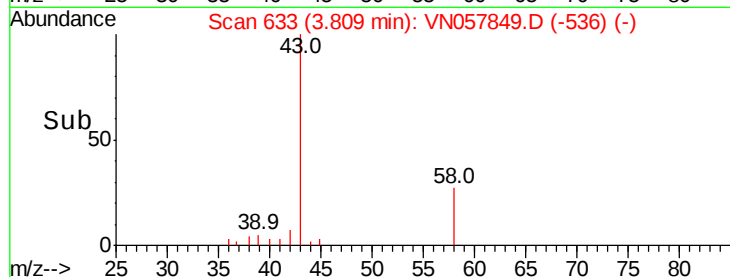
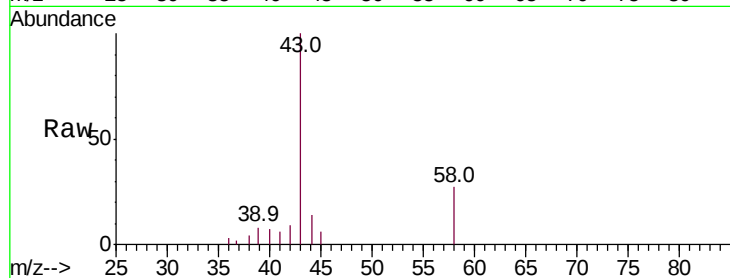
ClientSampled :

Tot Ion: 43 Resp: 22192

Ion Ratio Lower Upper

43 100

58 26.5 22.2 33.2



#17

Carbon Disulfide

Concen: 0.533 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057849.D

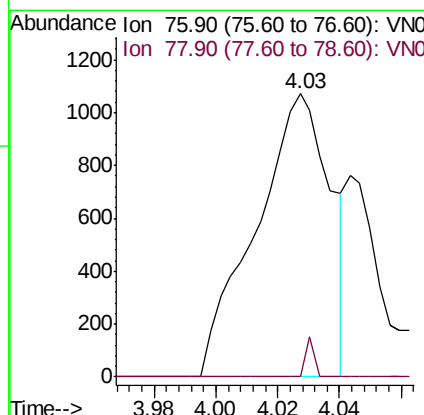
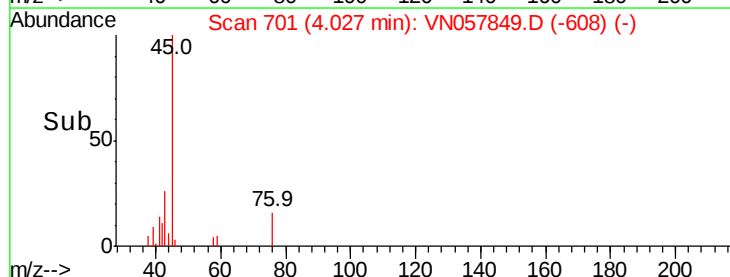
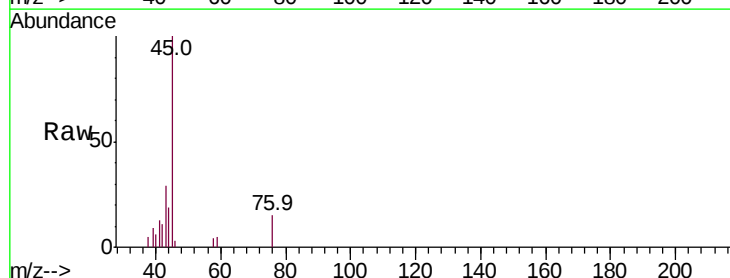
Acq: 10 Sep 2019 10:10

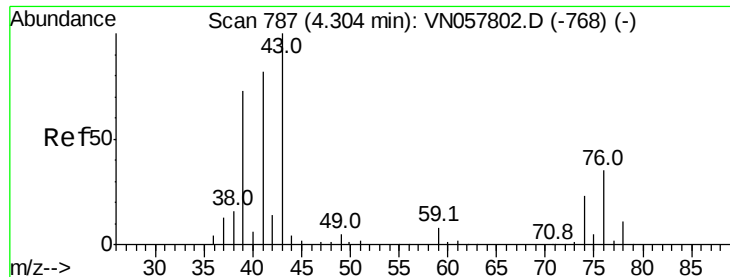
Tgt Ion: 76 Resp: 1786

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

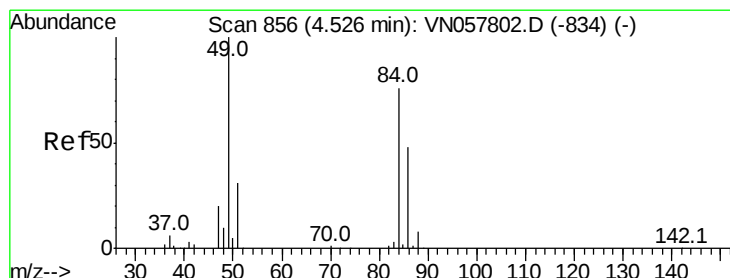
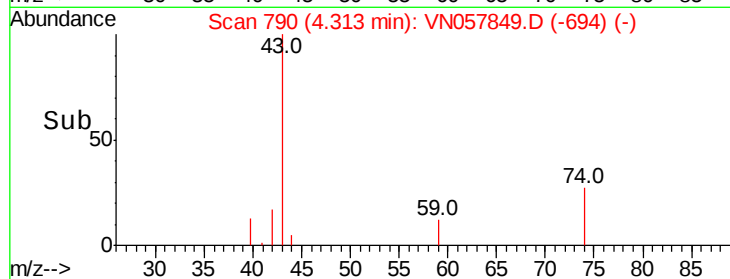
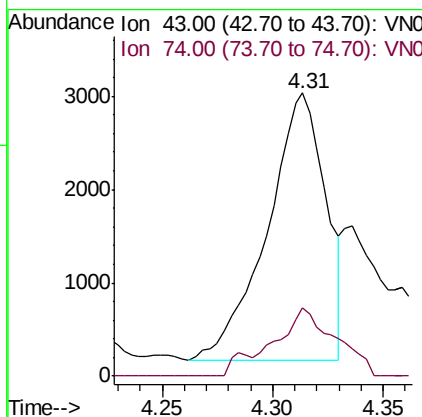
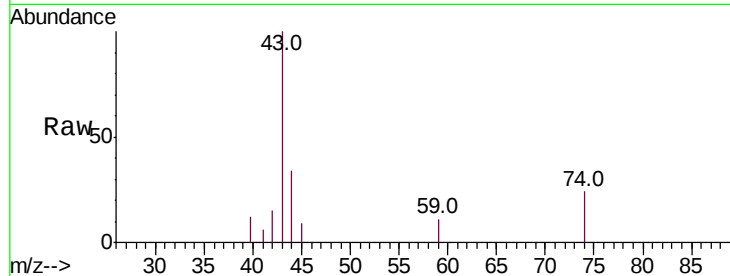




#18
Methyl Acetate
Concen: 1.032 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057849.D
Acq: 10 Sep 2019 10:10

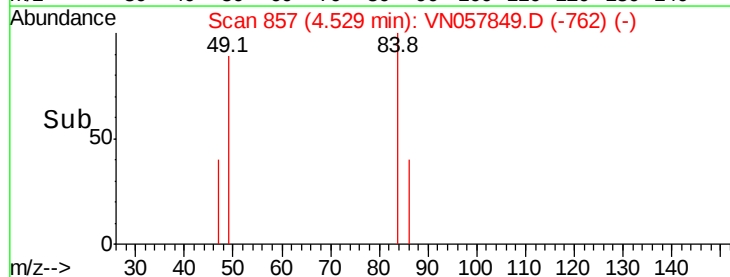
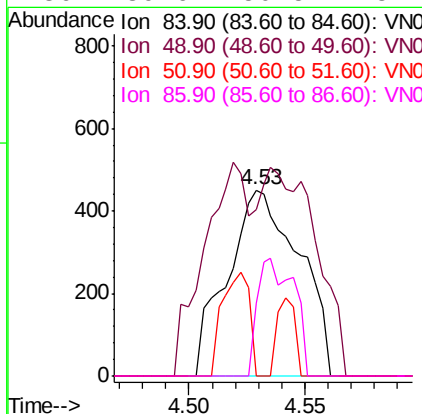
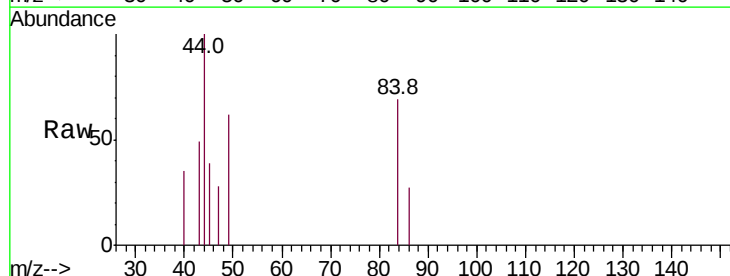
Instrument :
MSVOA_N
ClientSampleId :

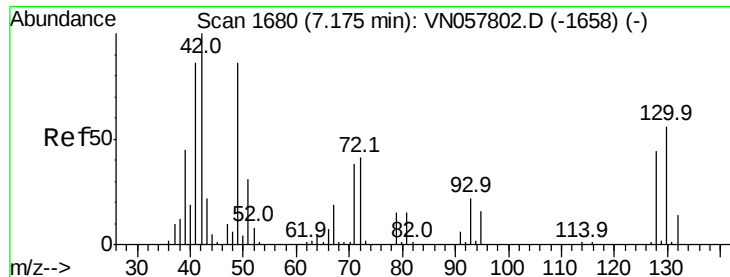
Tot Ion: 43 Resp: 5245
Ion Ratio Lower Upper
43 100
74 24.7 17.9 26.9



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057849.D
Acq: 10 Sep 2019 10:10

Tgt Ion: 84 Resp: 973
Ion Ratio Lower Upper
84 100
49 52.2 104.8 157.2#
51 0.0 33.0 49.4#
86 39.6 50.5 75.7#





#28

Bromochloromethane

Concen: 0.246 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. 0.17 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :
MSVOA_N
ClientSampled :

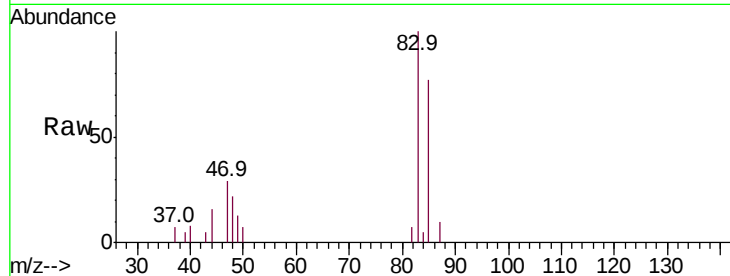
Tot Ion: 49 Resp: 943

Ion Ratio Lower Upper

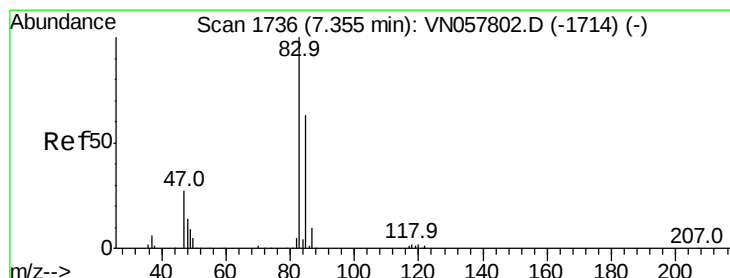
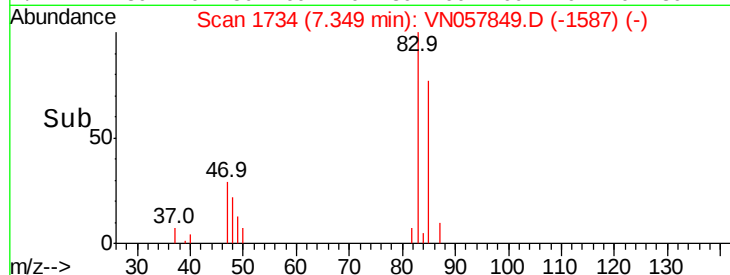
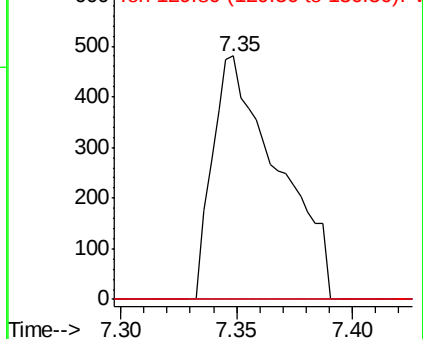
49 100

129 0.0 0.0 3.8

130 0.0 53.0 79.6#



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 1.485 ug/l

RT: 7.36 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VN057849.D

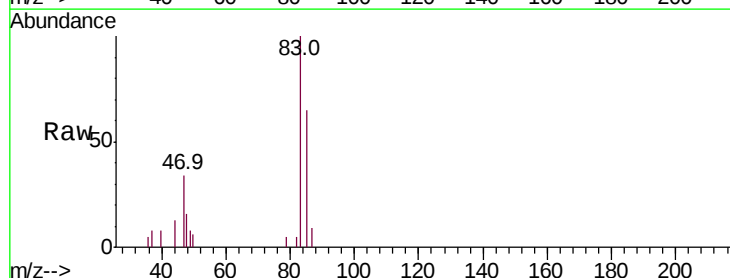
Acq: 10 Sep 2019 10:10

Tgt Ion: 83 Resp: 11912

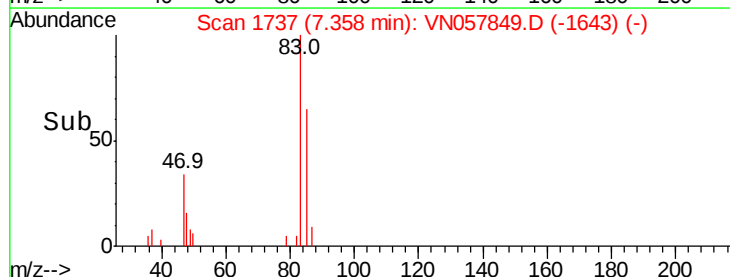
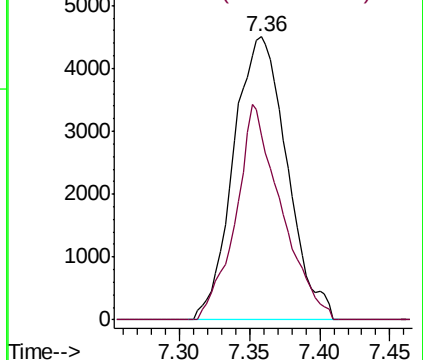
Ion Ratio Lower Upper

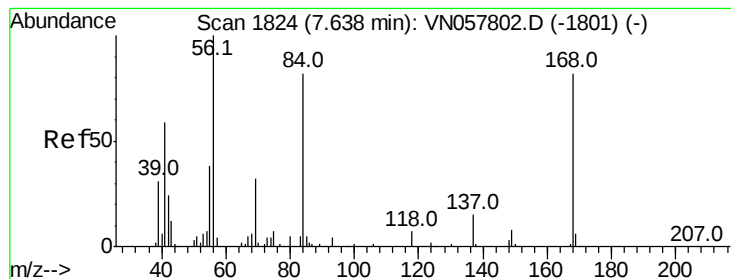
83 100

85 65.3 50.6 75.8



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :
MSVOA_N
ClientSampled :

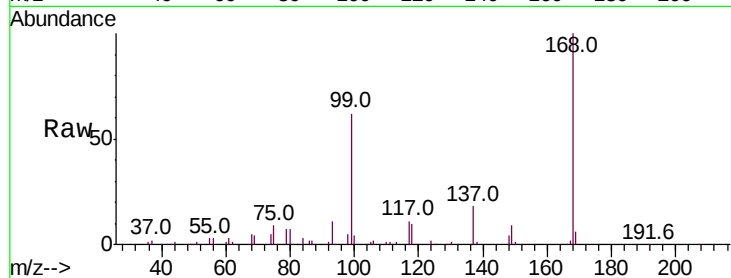
Tot Ion: 56 Resp: 7856

Ion Ratio Lower Upper

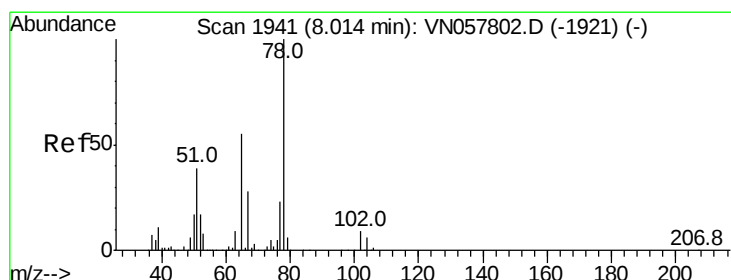
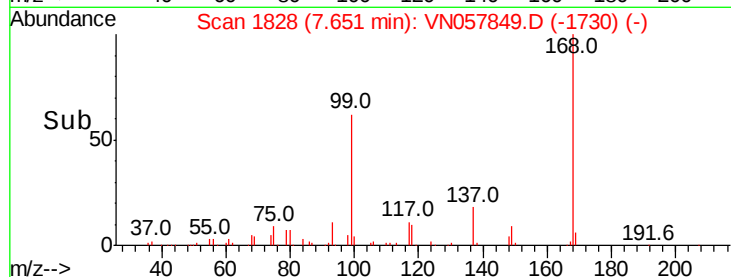
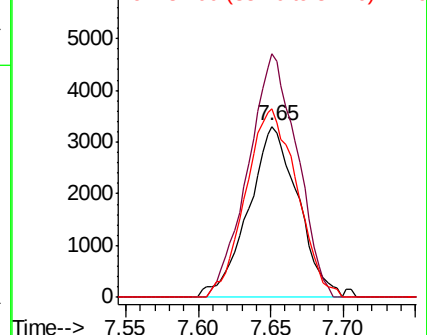
56 100

69 142.2 25.9 38.9#

84 110.1 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.907 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057849.D

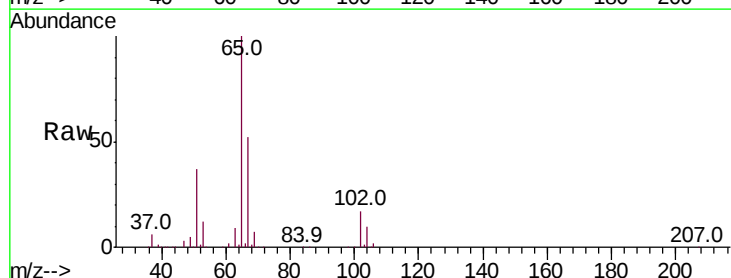
Acq: 10 Sep 2019 10:10

Tgt Ion: 65 Resp: 307730

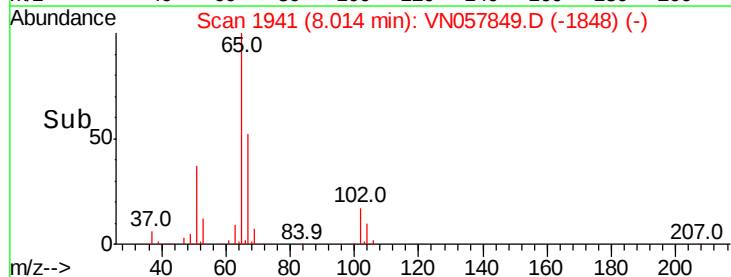
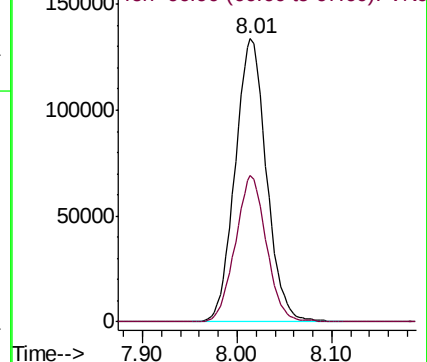
Ion Ratio Lower Upper

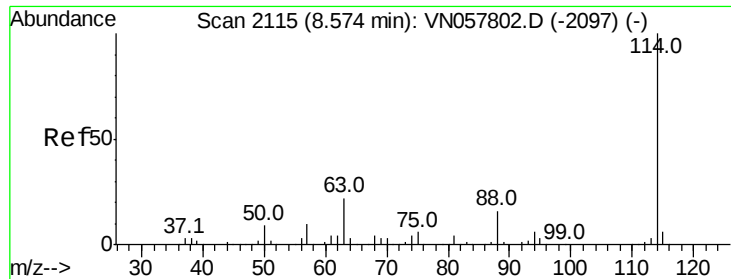
65 100

67 50.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

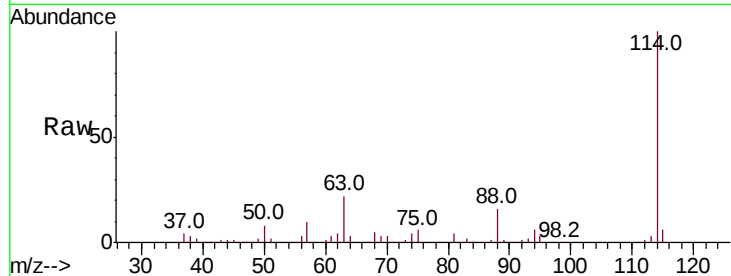




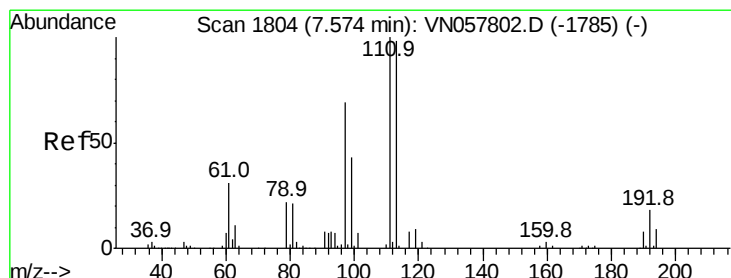
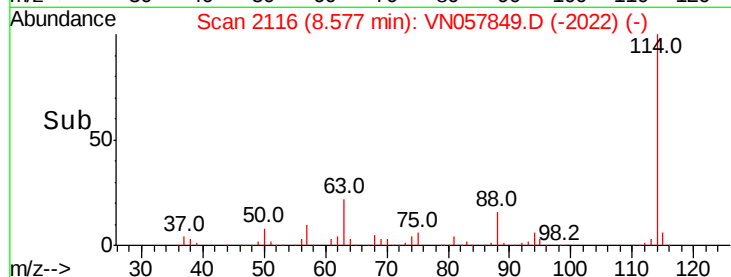
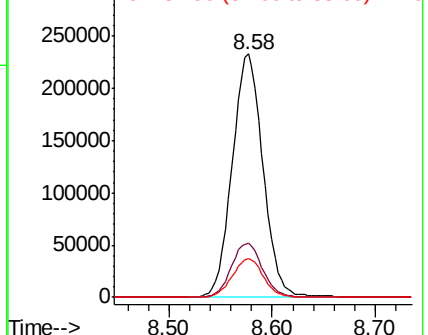
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057849.D
 Acq: 10 Sep 2019 10:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 483975
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 15.7 0.0 31.4

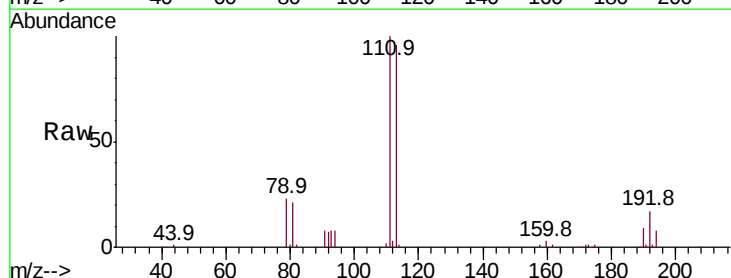


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

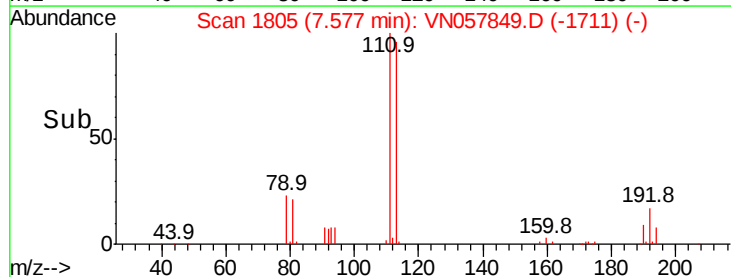
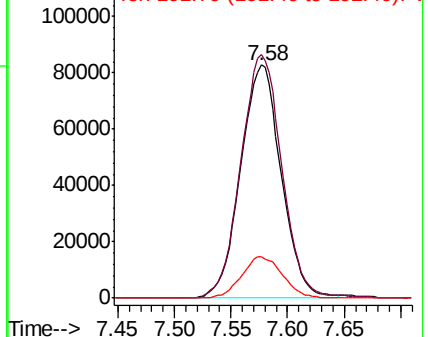


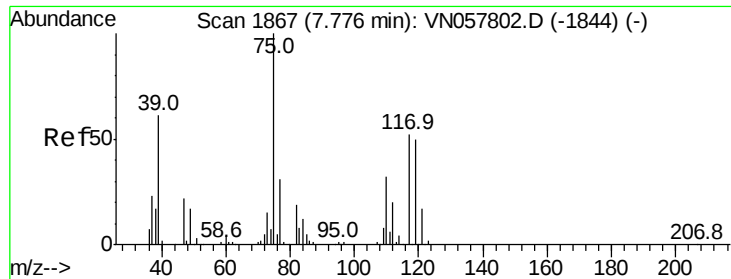
#35
 Dibromofluoromethane
 Concen: 46.185 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057849.D
 Acq: 10 Sep 2019 10:10

Tgt Ion:113 Resp: 206303
 Ion Ratio Lower Upper
 113 100
 111 105.9 81.3 121.9
 192 17.9 14.6 22.0



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

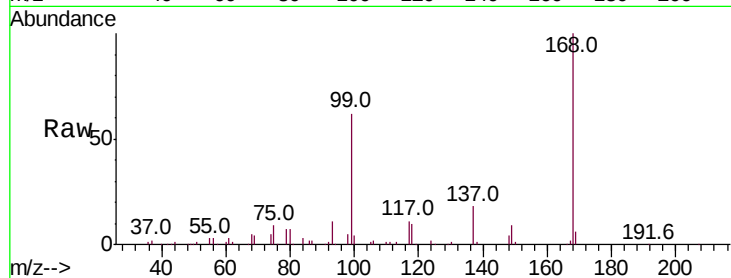




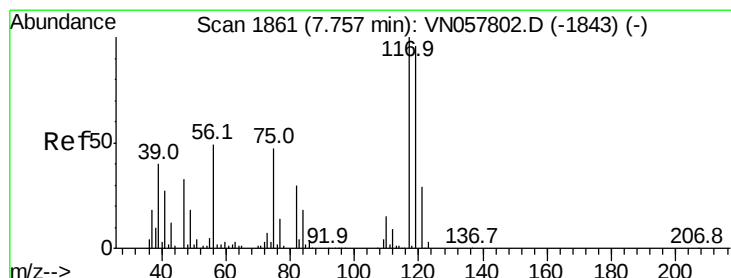
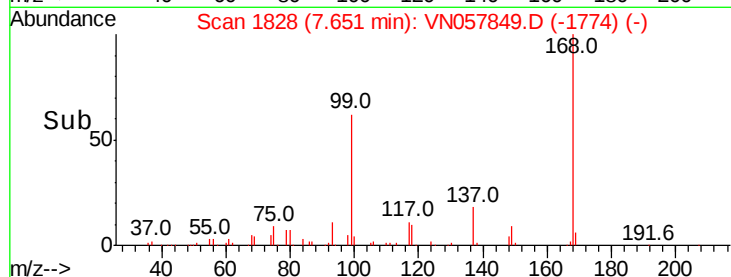
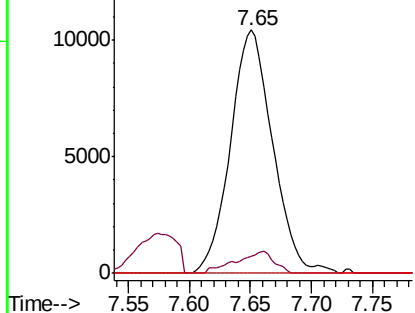
#36
 1,1-Dichloropropene
 Concen: 4.459 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057849.D
 Acq: 10 Sep 2019 10:10

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 25029
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.3 48.9#
 77 0.0 25.0 37.4#

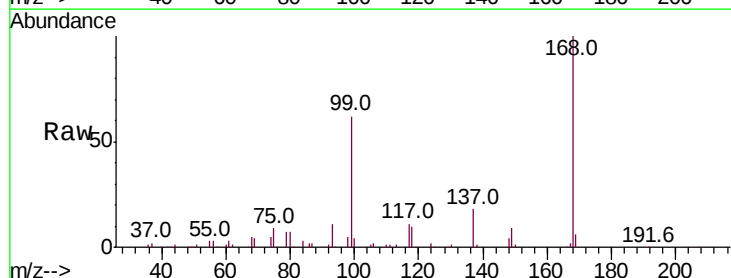


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

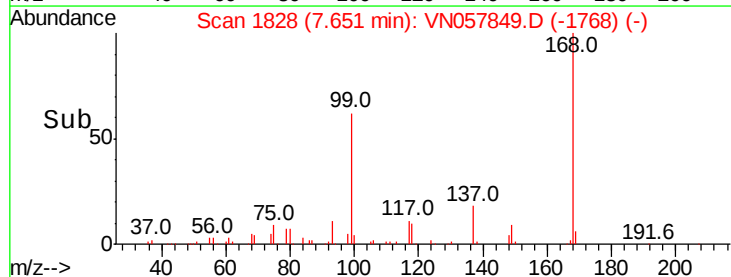
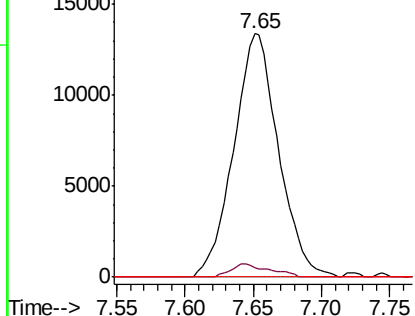


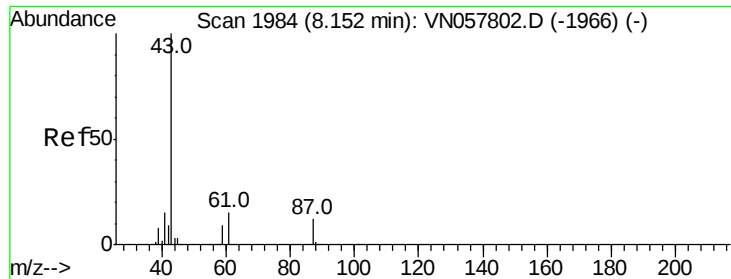
#38
 Carbon Tetrachloride
 Concen: 5.940 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057849.D
 Acq: 10 Sep 2019 10:10

Tgt Ion: 117 Resp: 30440
 Ion Ratio Lower Upper
 117 100
 119 4.0 76.9 115.3#
 121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 4.972 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.08 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

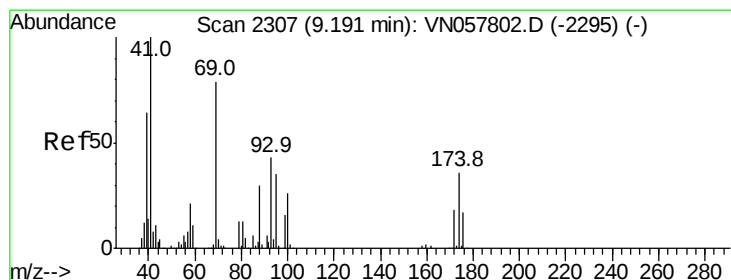
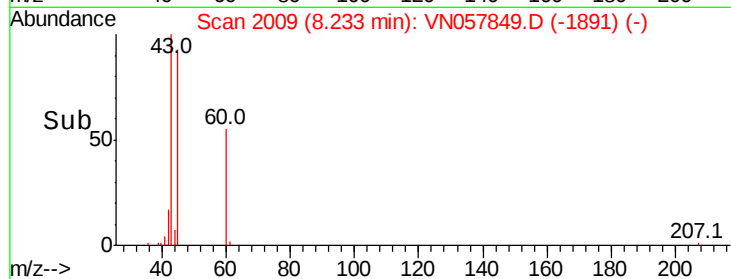
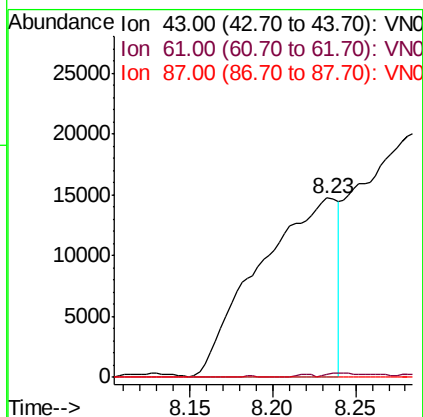
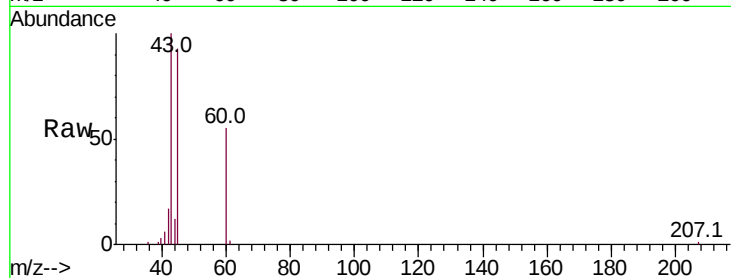
Tot Ion: 43 Resp: 48491

Ion Ratio Lower Upper

43 100

61 0.9 20.1 30.1#

87 0.0 9.5 14.3#



#48

Methyl methacrylate

Concen: 0.582 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.03 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

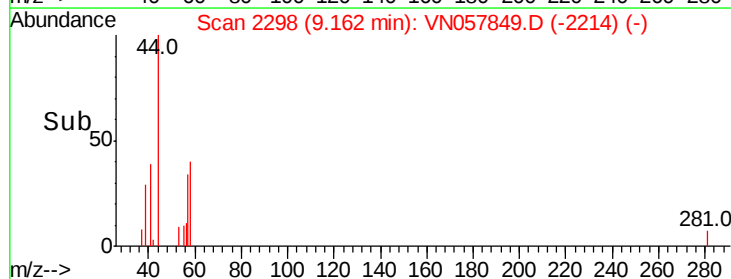
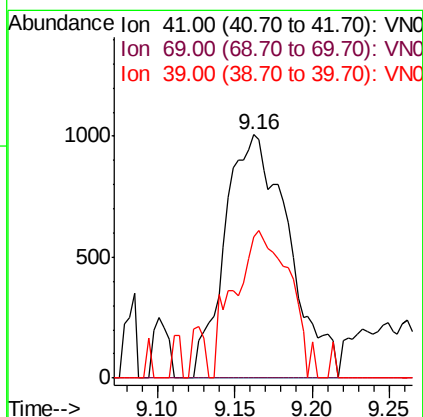
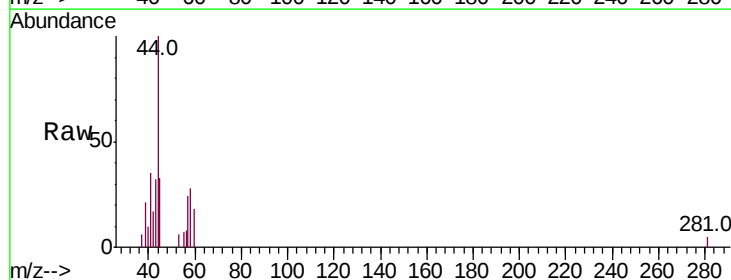
Tgt Ion: 41 Resp: 2880

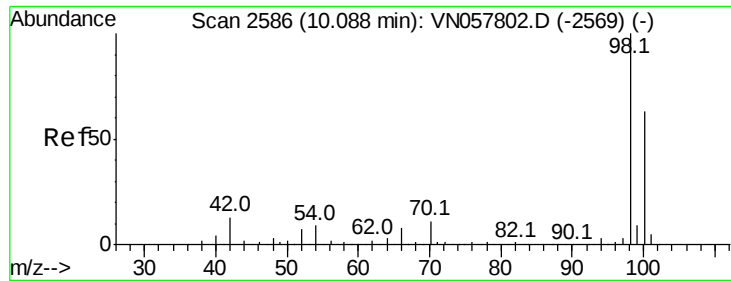
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 52.7 52.7 79.1#





#50

Toluene-d8

Concen: 48.382 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :

MSVOA_N

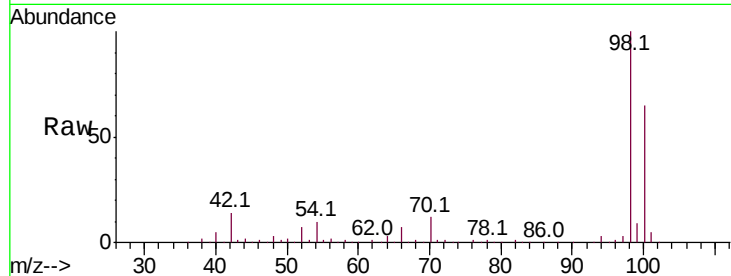
ClientSampleId :

Tot Ion: 98 Resp: 839085

Ion Ratio Lower Upper

98 100

100 64.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

500000

400000

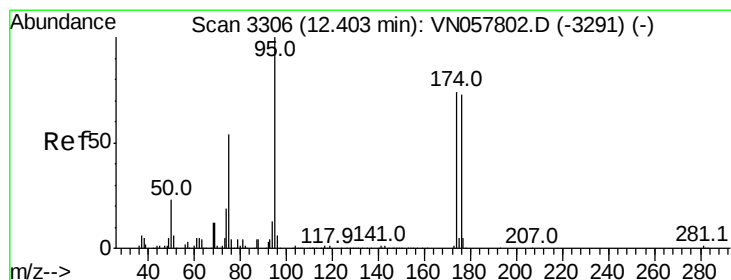
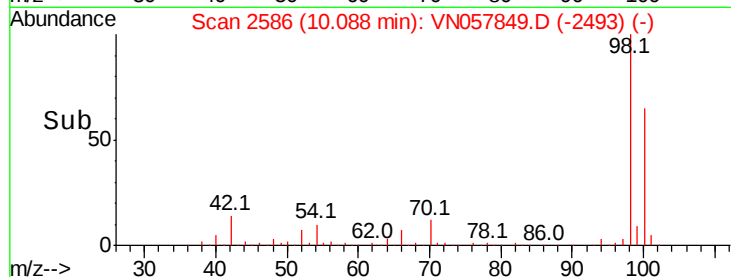
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.006 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

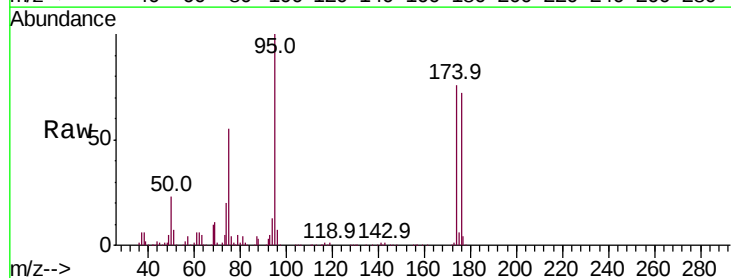
Tgt Ion: 95 Resp: 271019

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

176 73.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

200000

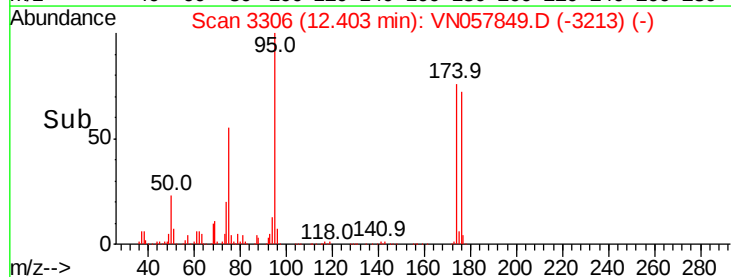
150000

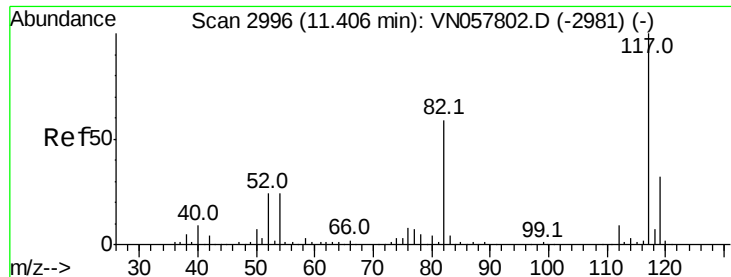
100000

50000

0

Time-->

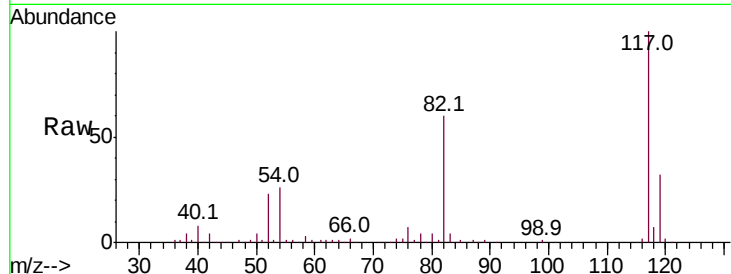




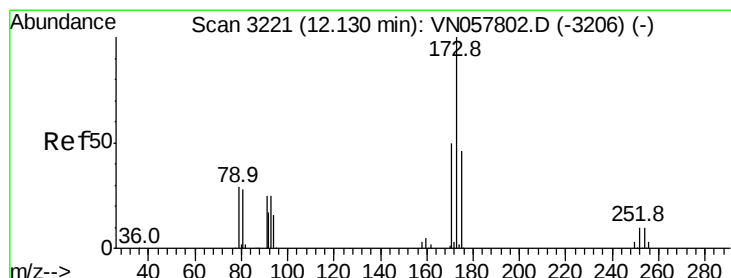
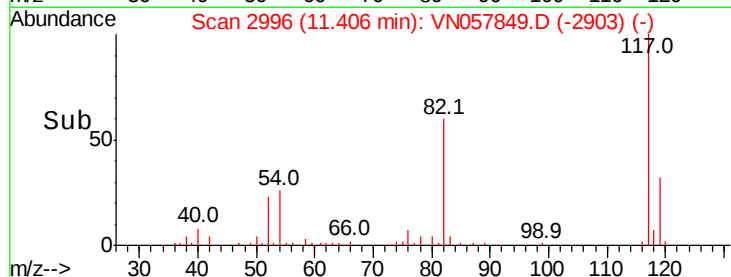
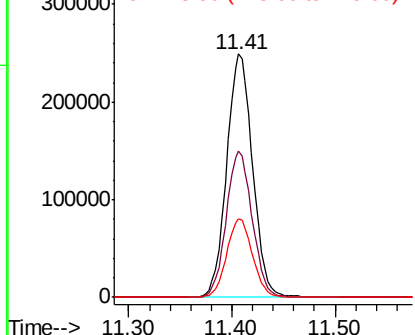
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057849.D
Acq: 10 Sep 2019 10:10

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 435651
Ion Ratio Lower Upper
117 100
82 59.9 47.2 70.8
119 32.4 25.3 37.9

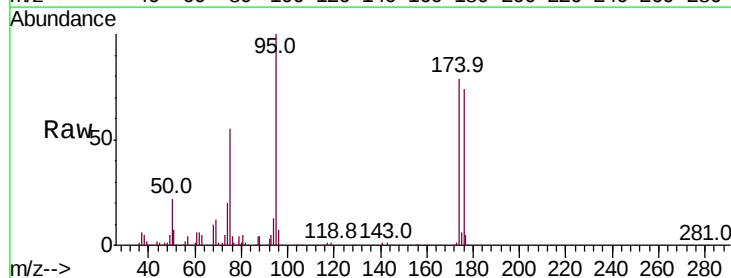


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

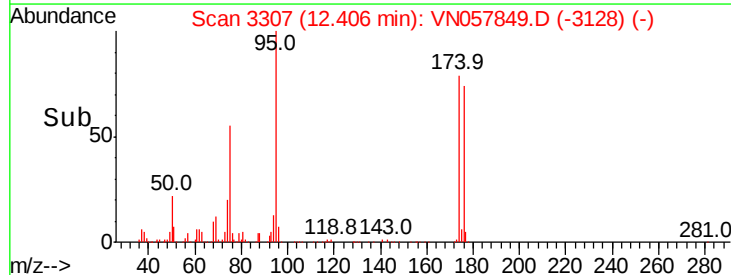
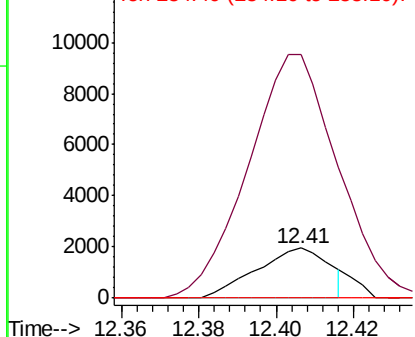


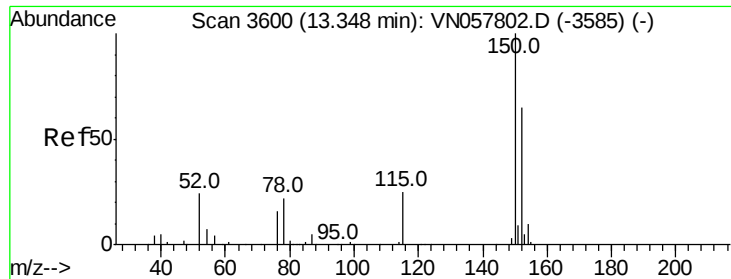
#71
Bromoform
Concen: 1.038 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN057849.D
Acq: 10 Sep 2019 10:10

Tgt Ion:173 Resp: 2560
Ion Ratio Lower Upper
173 100
175 530.7 23.5 70.6#
254 0.0 0.1 0.1#



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: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

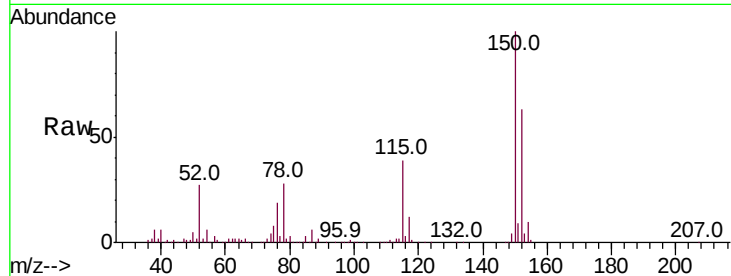
Tot Ion:152 Resp: 224864

Ion Ratio Lower Upper

152 100

115 61.3 30.3 91.0

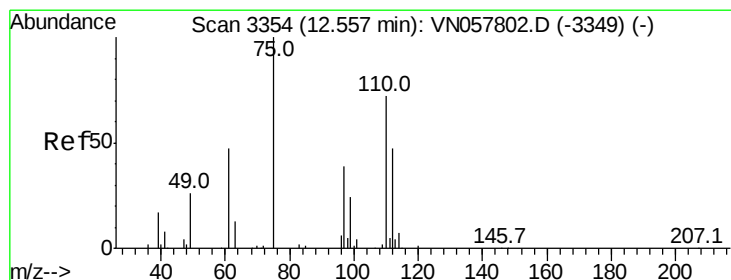
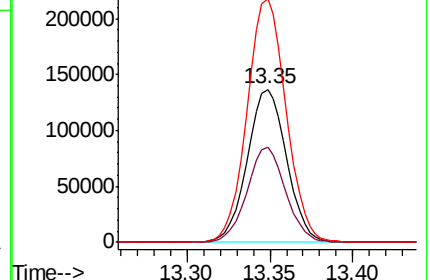
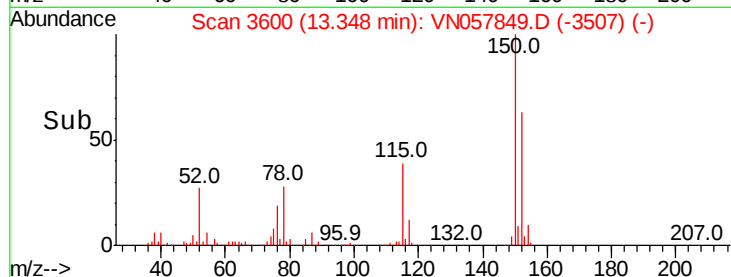
150 158.4 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 29.695 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057849.D

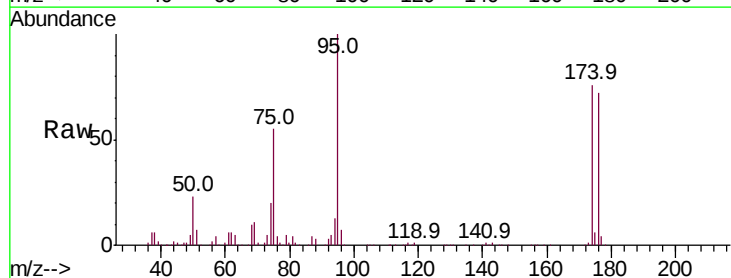
Acq: 10 Sep 2019 10:10

Tgt Ion: 75 Resp: 151053

Ion Ratio Lower Upper

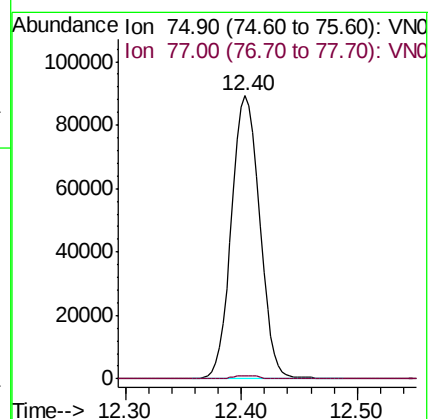
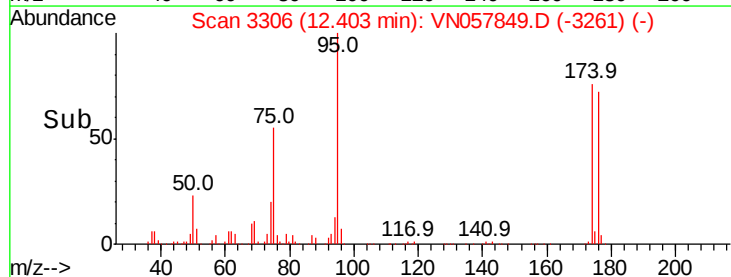
75 100

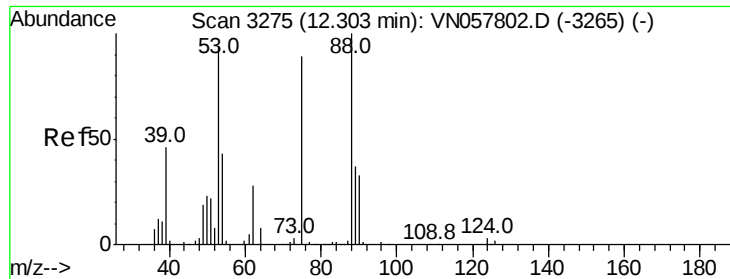
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 104.497 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

Instrument :

MSVOA_N

ClientSampled :

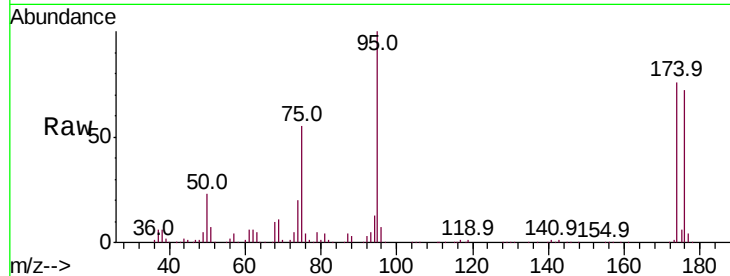
Tot Ion: 75 Resp: 151053

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

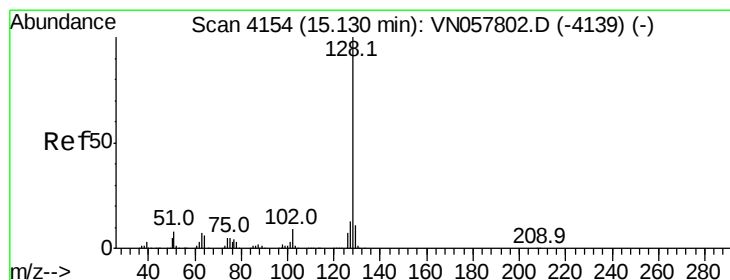
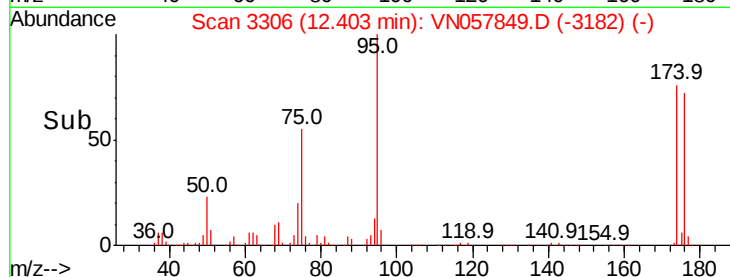
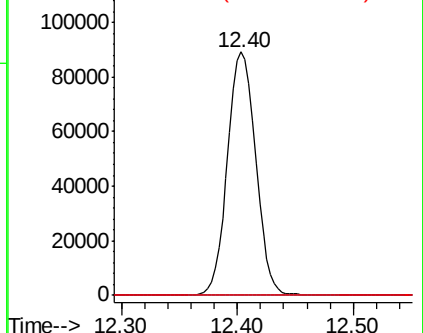
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057849.D

Acq: 10 Sep 2019 10:10

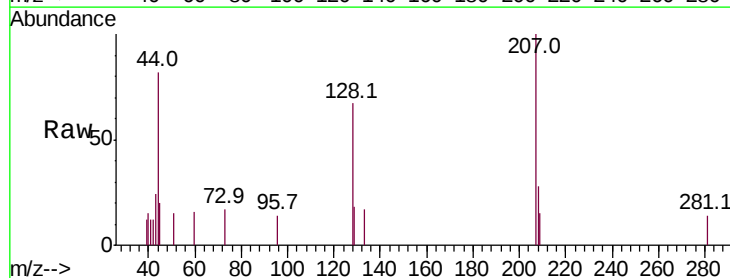
Tgt Ion:128 Resp: 1611

Ion Ratio Lower Upper

128 100

127 3.7 10.3 15.5#

129 14.3 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

