

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049805.D
 Acq On : 13 Jul 2018 18:45
 Operator : MD\SY
 Sample : PB111069ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#08

Quant Time: Jul 13 23:52:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1160762	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1907316	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1557129	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	578683	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	790303	58.53	ug/l	0.00
Spiked Amount			Recovery	=	117.06%	
35) Dibromofluoromethane	7.59	113	717681	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	10.09	98	2549988	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	12.40	95	699586	39.80	ug/l	0.00
Spiked Amount			Recovery	=	79.60%	

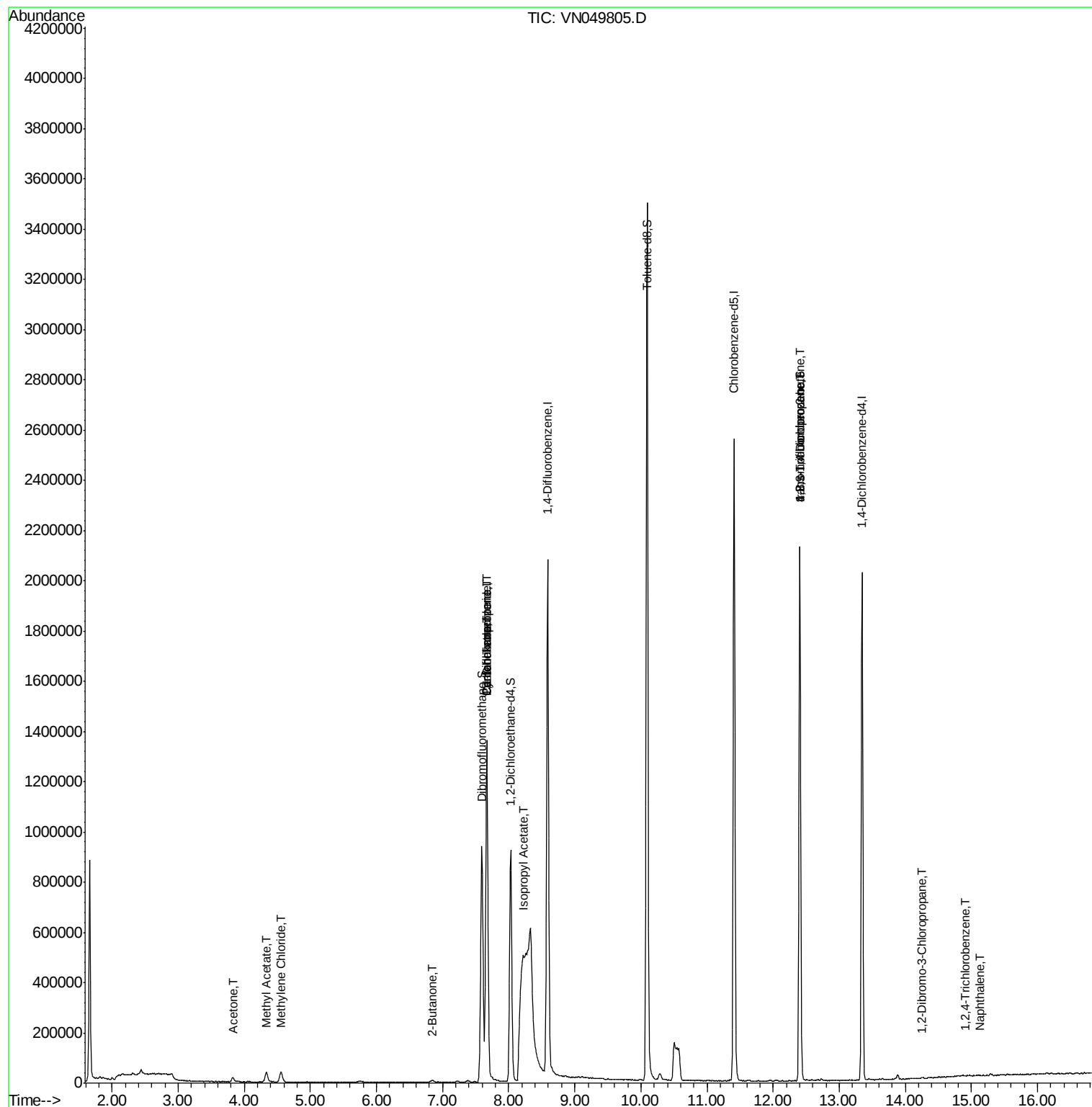
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	30	Below Cal	#	44
3) Chloromethane	2.06	50	1924	Below Cal		89
4) Vinyl Chloride	2.19	62	76	Below Cal	#	43
5) Bromomethane	2.57	94	1054	Below Cal	#	25
16) Acetone	3.83	43	29176	6.76	ug/l	91
17) Carbon Disulfide	4.05	76	1957	Below Cal	#	84
18) Methyl Acetate	4.34	43	75414	6.04	ug/l	99
20) Methylene Chloride	4.56	84	31106	1.35	ug/l	94
25) 2-Butanone	6.84	43	2723	0.52	ug/l	90
31) Cyclohexane	7.67	56	20623	0.73	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	80067	3.64	ug/l #	49
38) Carbon Tetrachloride	7.67	117	106013	4.61	ug/l #	17
43) Isopropyl Acetate	8.22	43	767249	32.81	ug/l #	62
55) 1,1,2-Trichloroethane	10.58	97	1492	Below Cal	#	15
75) 1,1,2,2-Tetrachloroethane	12.50	83	61	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	341954	33.26	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	341954	107.42	ug/l #	13
90) Hexachloroethane	13.87	117	83	Below Cal	#	4
92) 1,2-Dibromo-3-Chloropropan	14.25	75	1461	0.37	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	505	2.93	ug/l #	45
95) Naphthalene	15.14	128	822	4.05	ug/l #	69

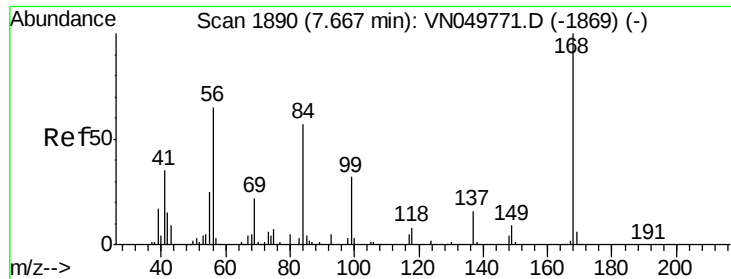
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

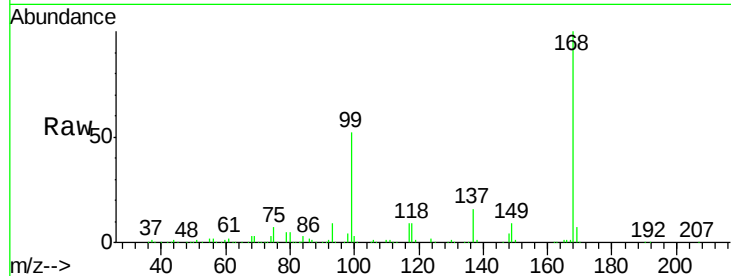
PB111069ZHE#08

Tot Ion:168 Resp: 1160762

Ion Ratio Lower Upper

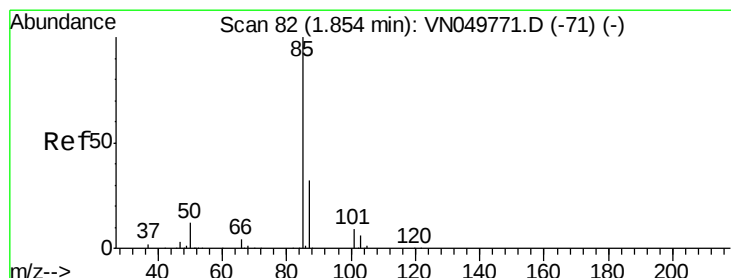
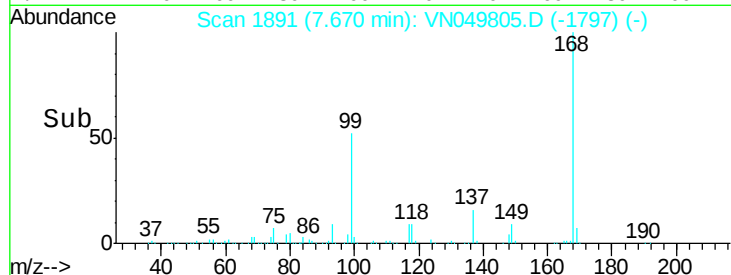
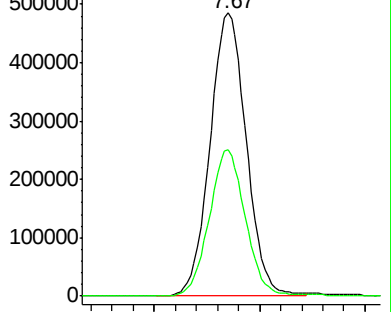
168 100

99 51.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN049805.D

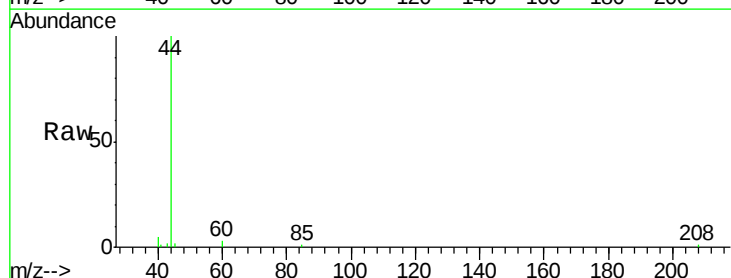
Acq: 13 Jul 2018 18:45

Tgt Ion: 85 Resp: 30

Ion Ratio Lower Upper

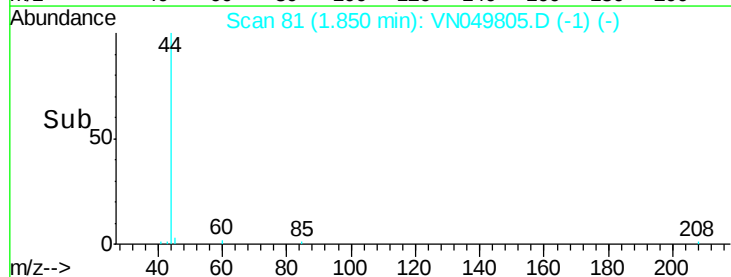
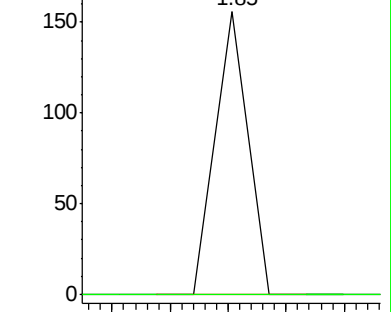
85 100

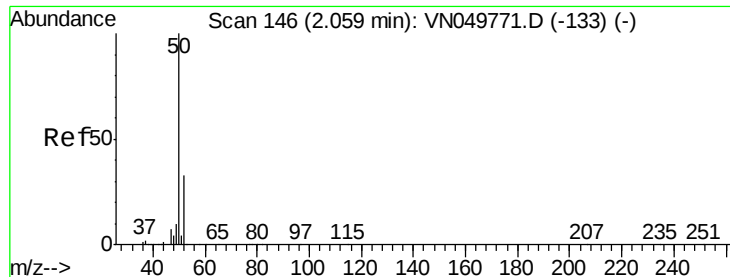
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

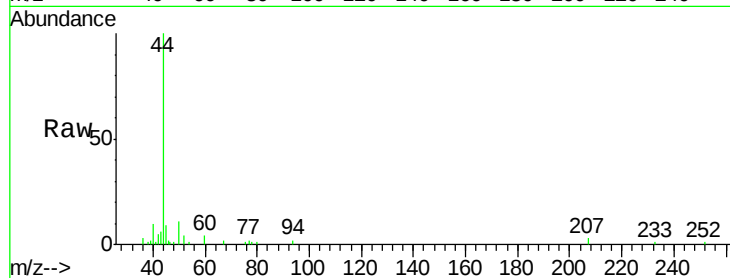
PB111069ZHE#08

Tot Ion: 50 Resp: 1924

Ion Ratio Lower Upper

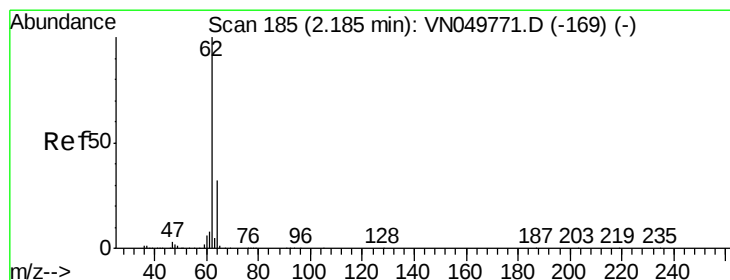
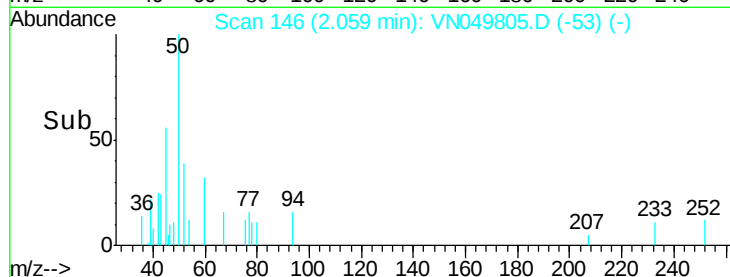
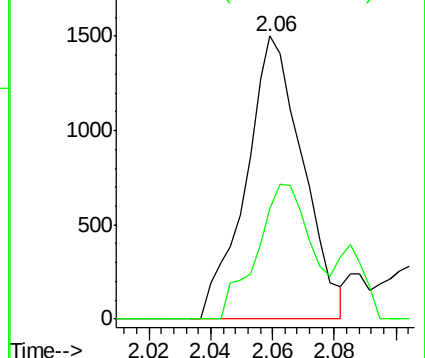
50 100

52 38.8 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.19 min Scan# 186

Delta R.T. 0.00 min

Lab File: VN049805.D

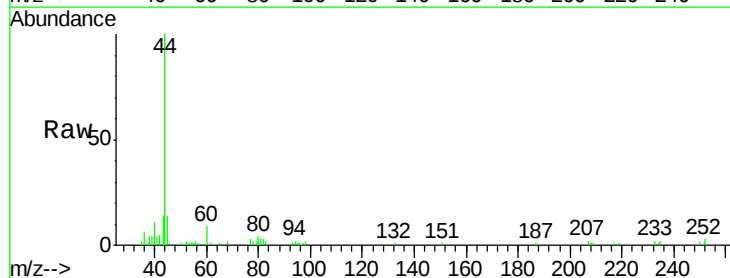
Acq: 13 Jul 2018 18:45

Tgt Ion: 62 Resp: 76

Ion Ratio Lower Upper

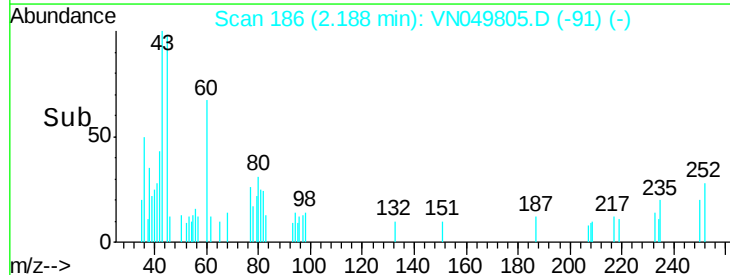
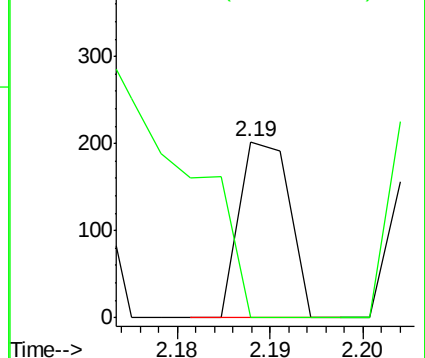
62 100

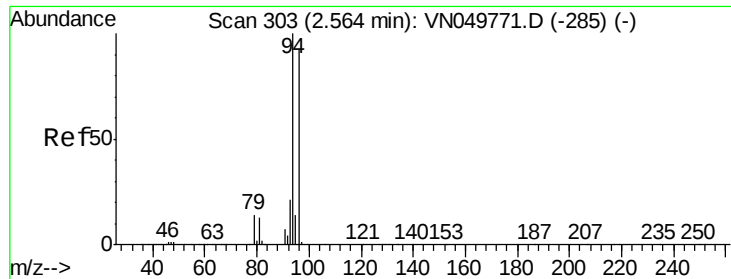
64 0.0 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

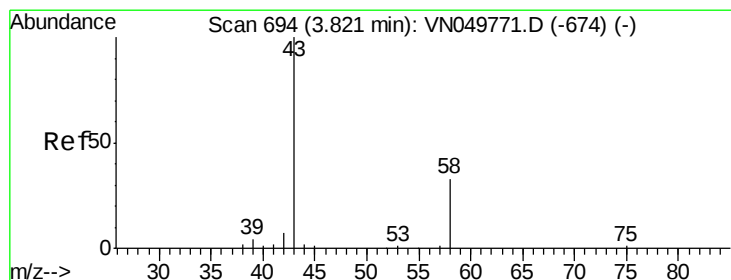
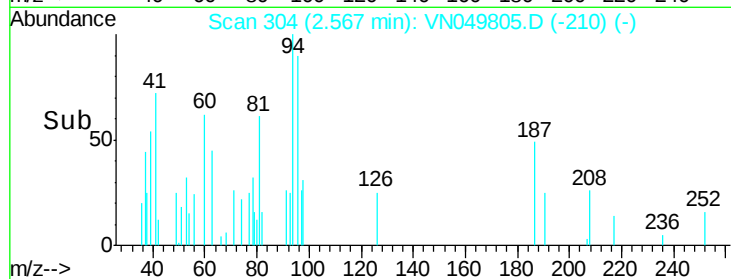
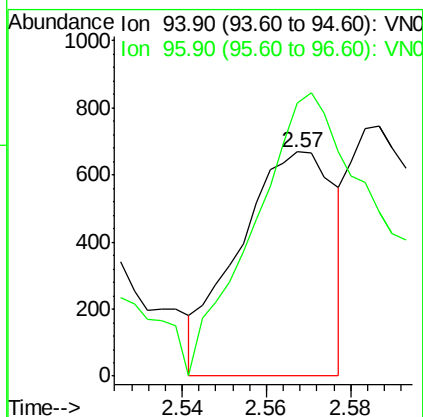
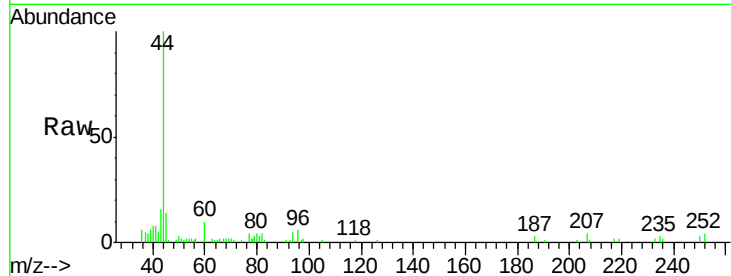
PB111069ZHE#08

Tot Ion: 94 Resp: 1054

Ion Ratio Lower Upper

94 100

96 167.0 75.7 113.5#



#16

Acetone

Concen: 6.76 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049805.D

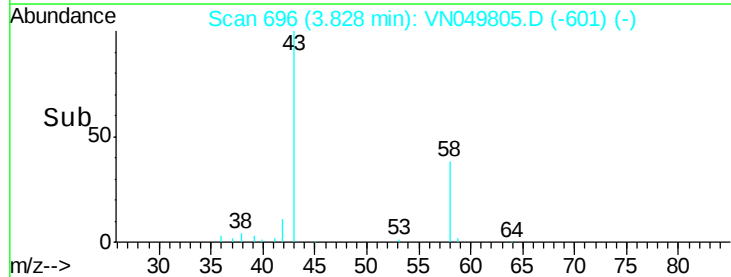
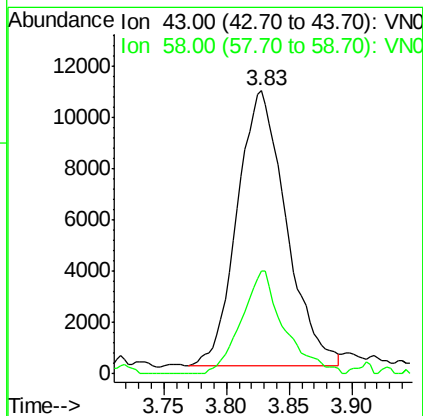
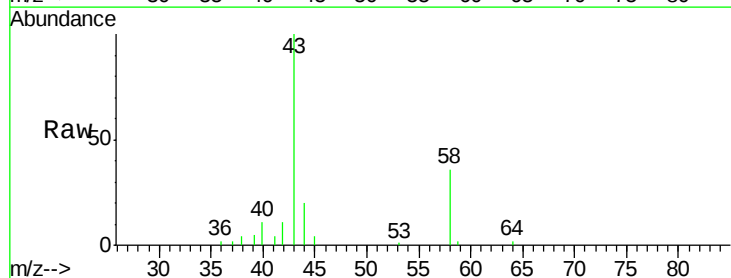
Acq: 13 Jul 2018 18:45

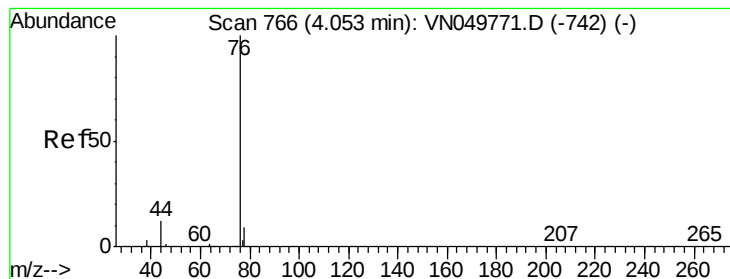
Tgt Ion: 43 Resp: 29176

Ion Ratio Lower Upper

43 100

58 37.5 25.9 38.9





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

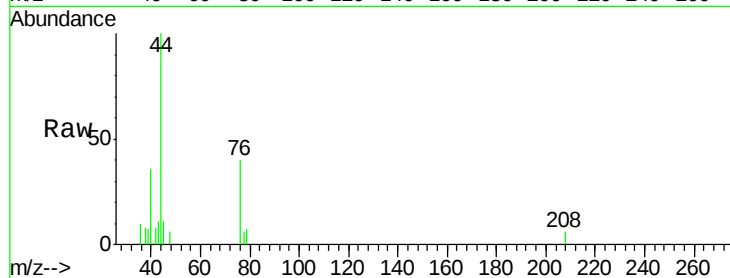
PB111069ZHE#08

Tot Ion: 76 Resp: 1957

Ion Ratio Lower Upper

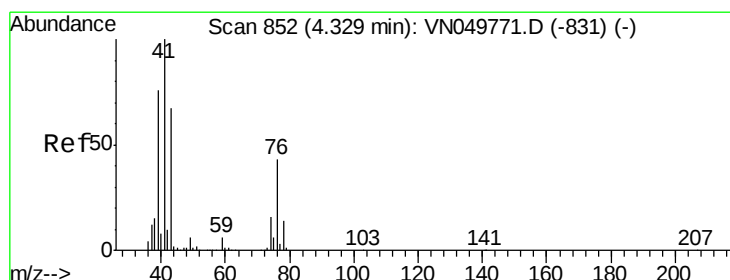
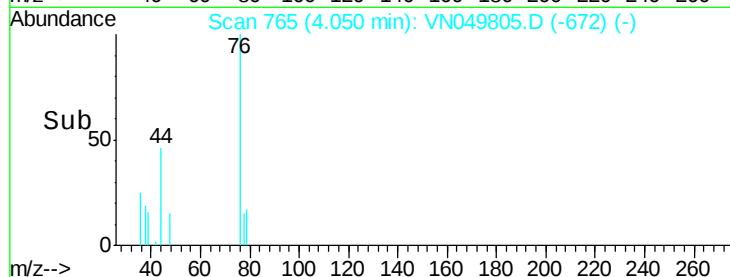
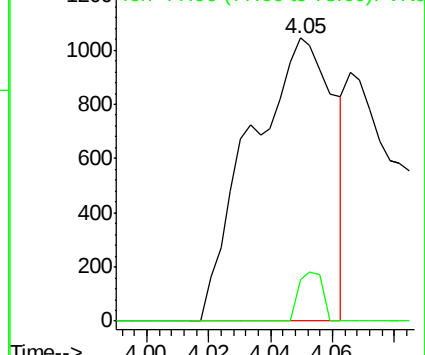
76 100

78 14.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN049771.D (-742) (-)

Ion 77.90 (77.60 to 78.60): VN049771.D (-742) (-)



#18

Methyl Acetate

Concen: 6.04 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049805.D

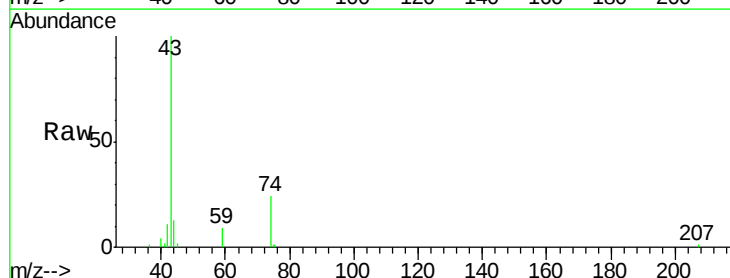
Acq: 13 Jul 2018 18:45

Tgt Ion: 43 Resp: 75414

Ion Ratio Lower Upper

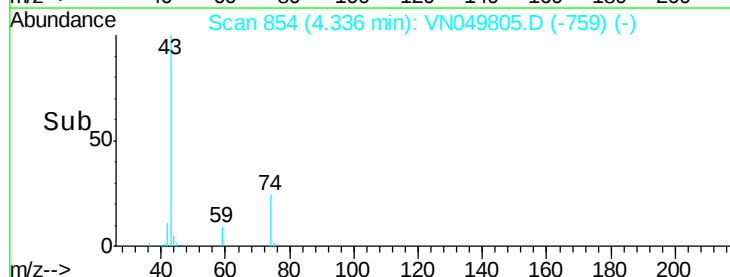
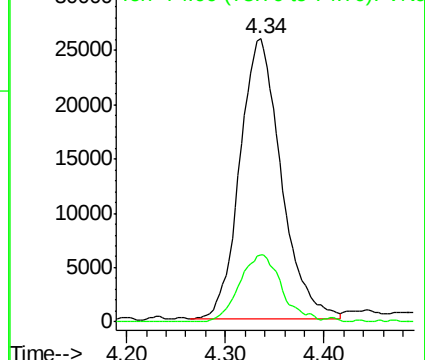
43 100

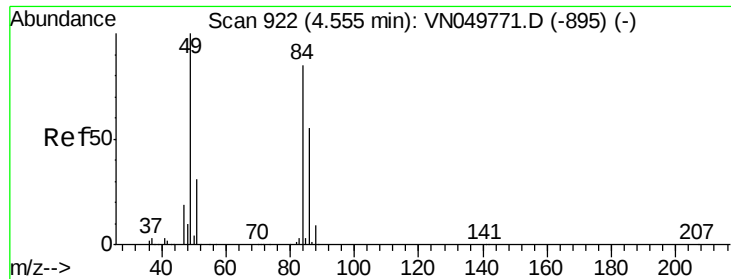
74 24.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-831) (-)

Ion 74.00 (73.70 to 74.70): VN049771.D (-831) (-)

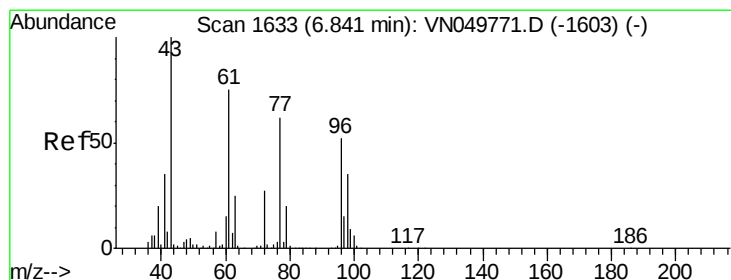
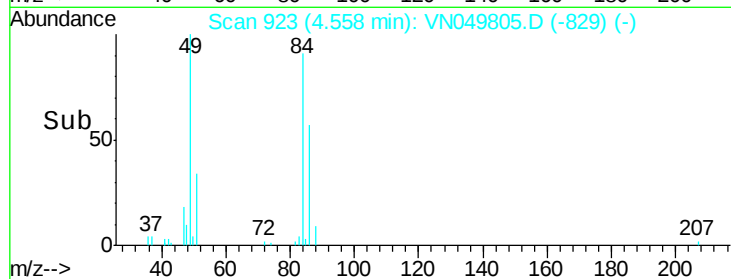
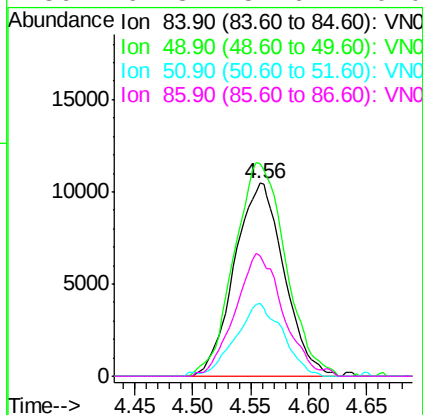
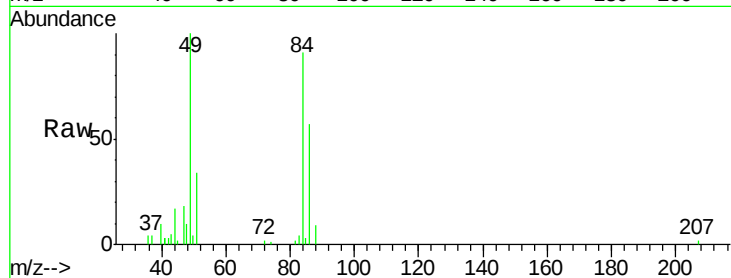




#20
Methvlene Chloride
Concen: 1.35 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN049805.D
Acq: 13 Jul 2018 18:45

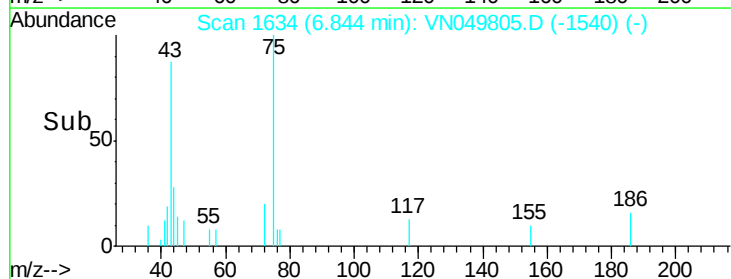
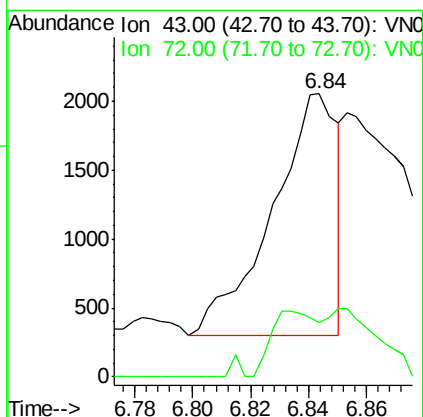
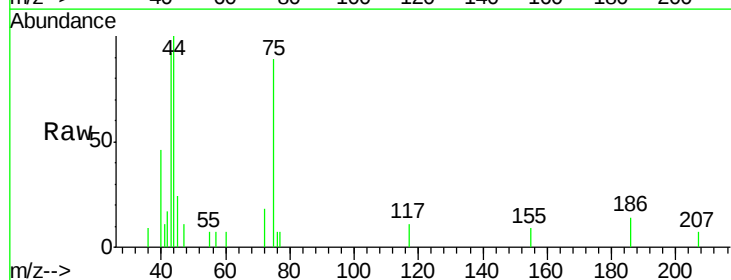
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#08

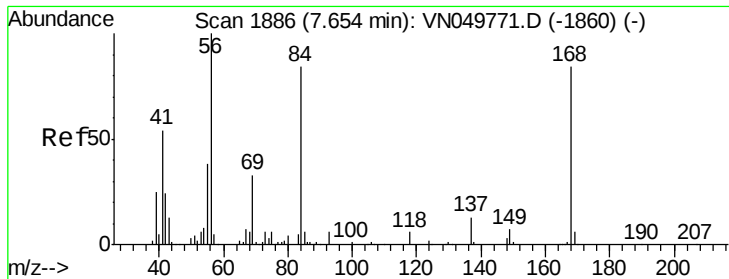
Tot Ion:	84	Resp:	31106
Ion	Ratio	Lower	Upper
84	100		
49	110.0	95.4	143.2
51	37.5	28.4	42.6
86	62.3	52.6	79.0



#25
2-Butanone
Concen: 0.52 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049805.D
Acq: 13 Jul 2018 18:45

Tgt Ion:	43	Resp:	2723
Ion	Ratio	Lower	Upper
43	100		
72	22.6	22.1	33.1





#31

Cyclohexane

Concen: 0.73 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#08

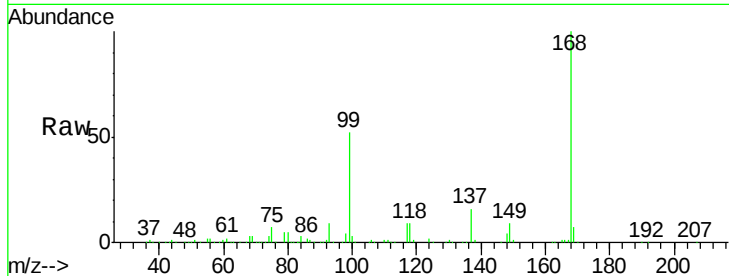
Tot Ion: 56 Resp: 20623

Ion Ratio Lower Upper

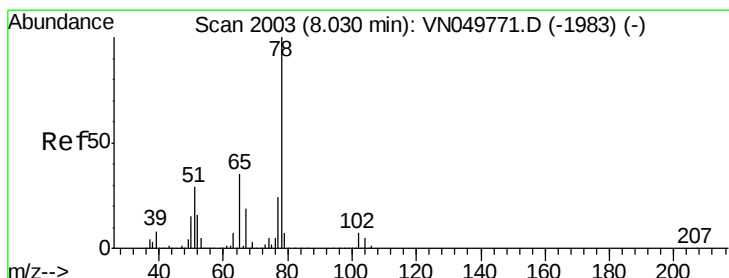
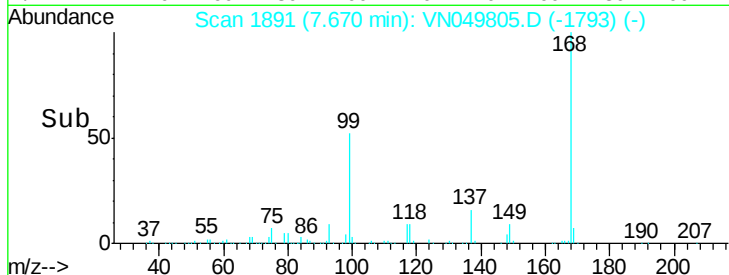
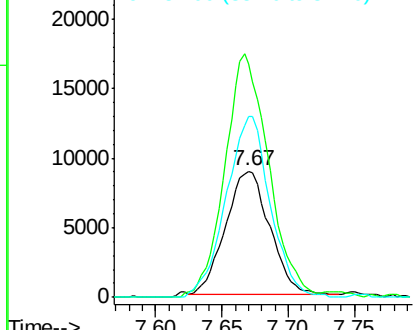
56 100

69 184.6 26.6 40.0#

84 146.6 69.0 103.6#



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: 58.53 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN049805.D

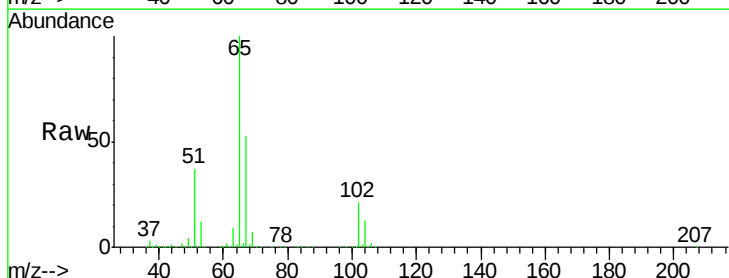
Acq: 13 Jul 2018 18:45

Tgt Ion: 65 Resp: 790303

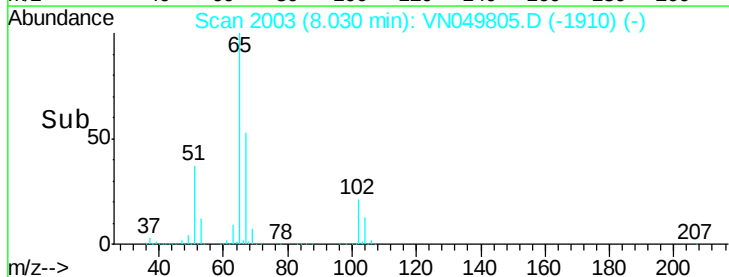
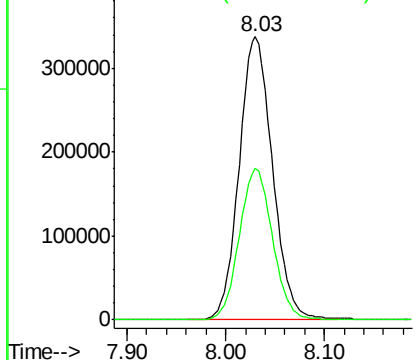
Ion Ratio Lower Upper

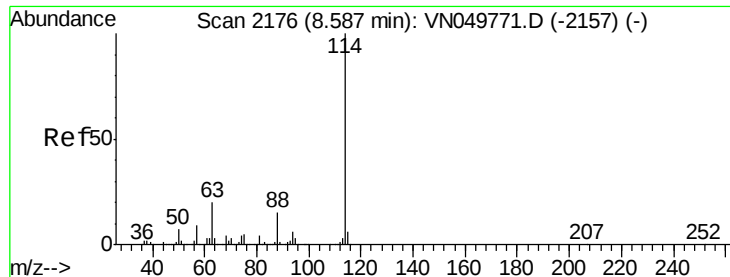
65 100

67 53.2 0.0 107.2



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#08

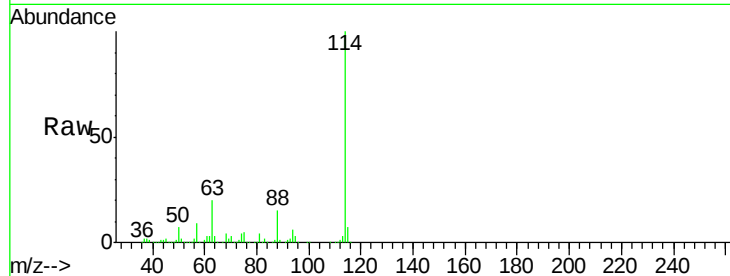
Tot Ion:114 Resp: 1907316

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.8

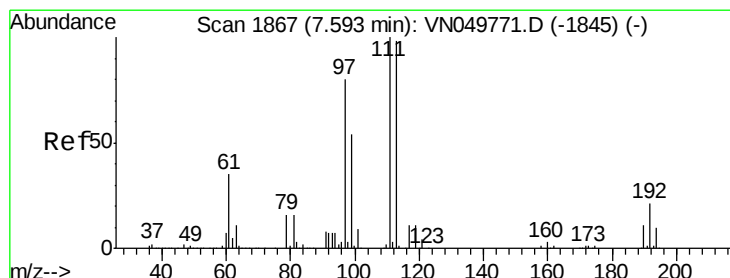
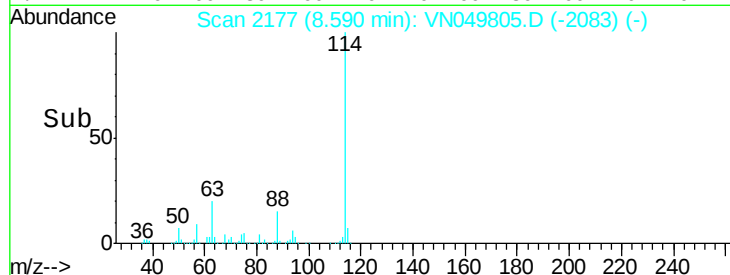
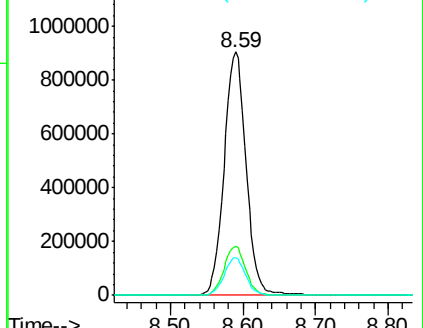
88 15.4 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.92 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

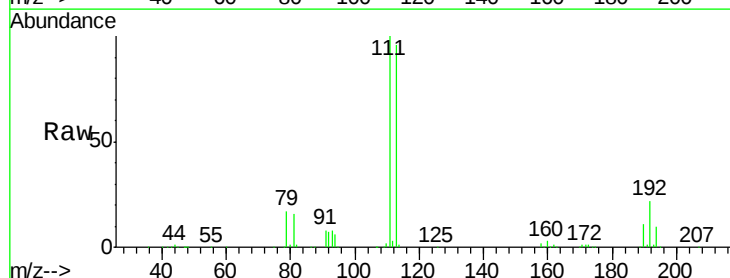
Tgt Ion:113 Resp: 717681

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

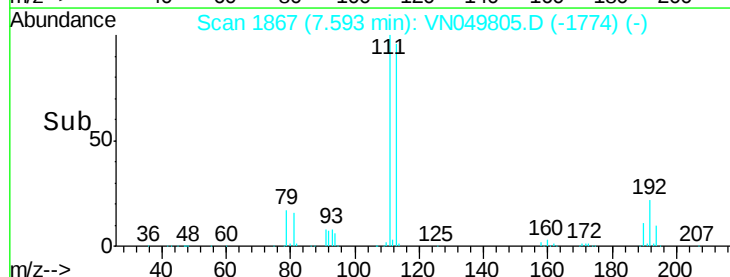
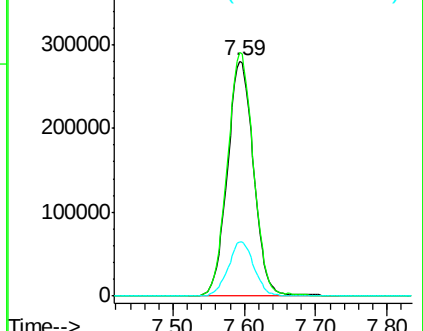
192 22.7 17.8 26.6

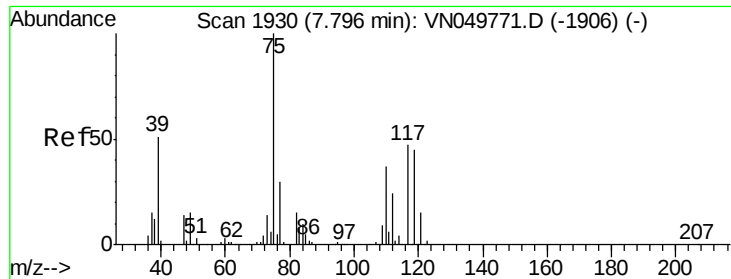


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

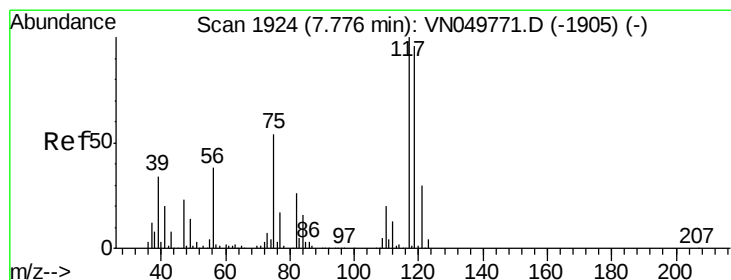
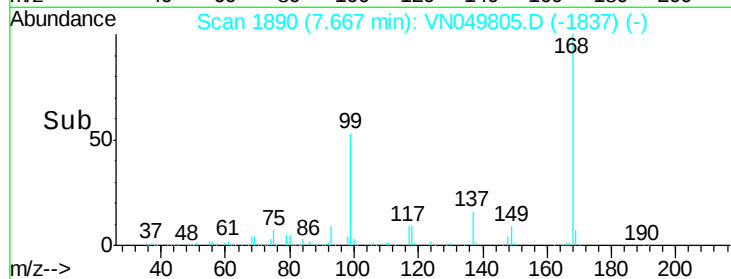
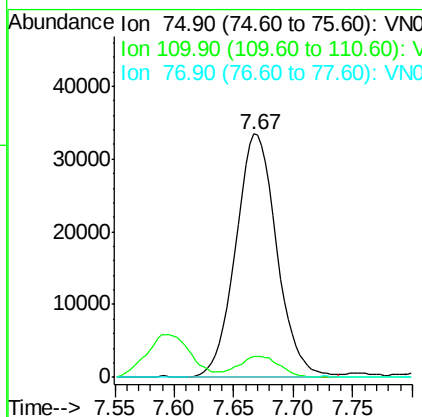
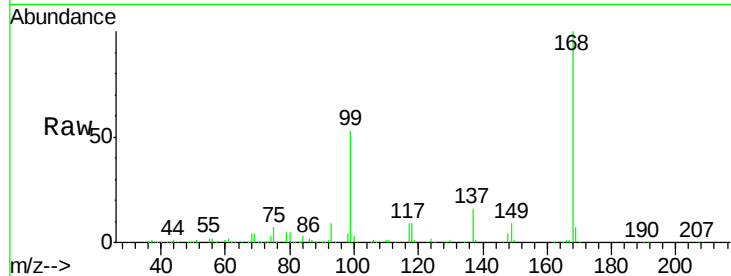




#36
 1,1-Dichloropropene
 Concen: 3.64 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049805.D
 Acq: 13 Jul 2018 18:45

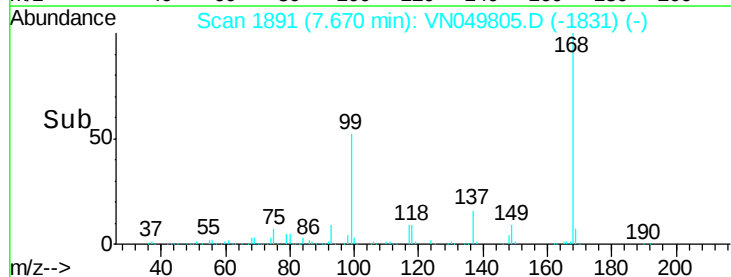
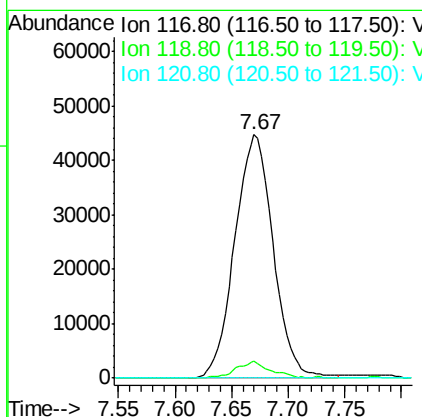
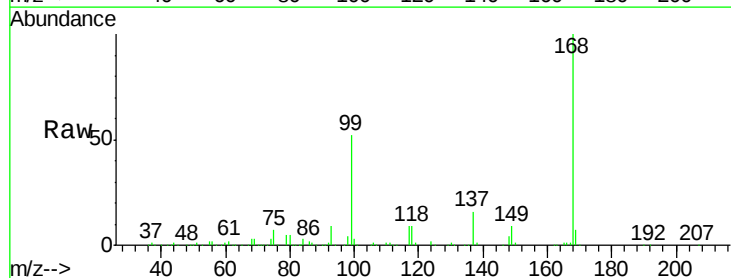
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#08

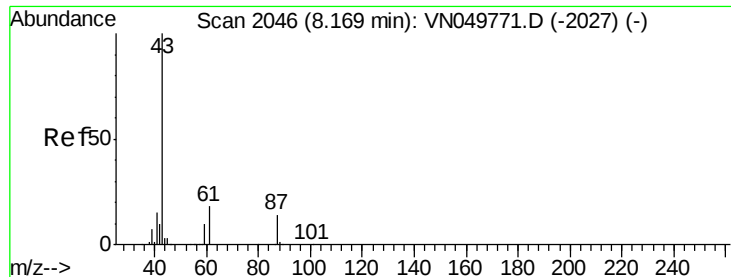
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.61 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049805.D
 Acq: 13 Jul 2018 18:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.2	115.8#
121	0.0	25.0	37.6#



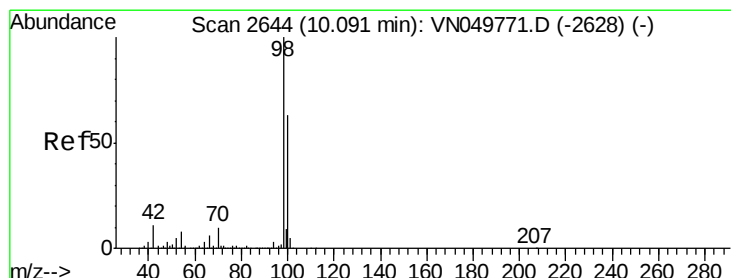
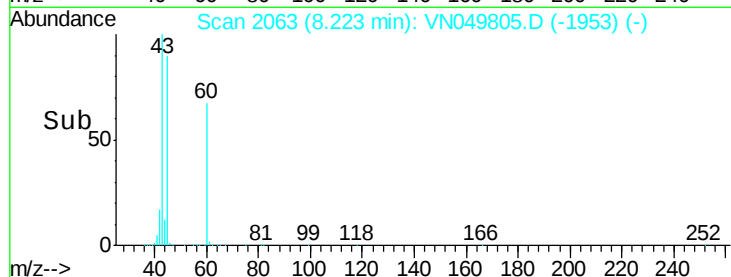
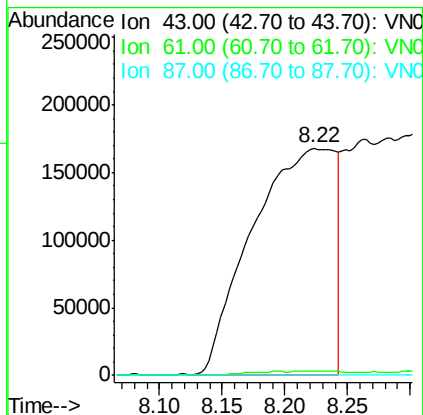
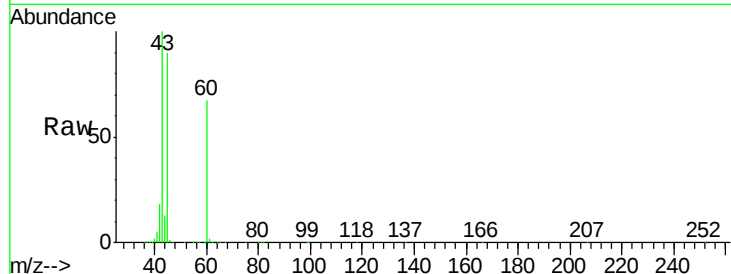


#43

Isopropyl Acetate
 Concen: 32.81 ug/l
 RT: 8.22 min Scan# 2063
 Delta R.T. 0.05 min
 Lab File: VN049805.D
 Acq: 13 Jul 2018 18:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#08

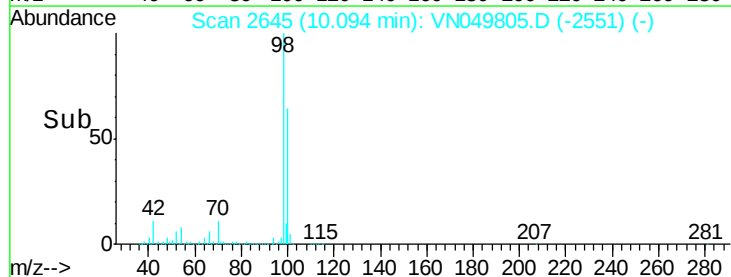
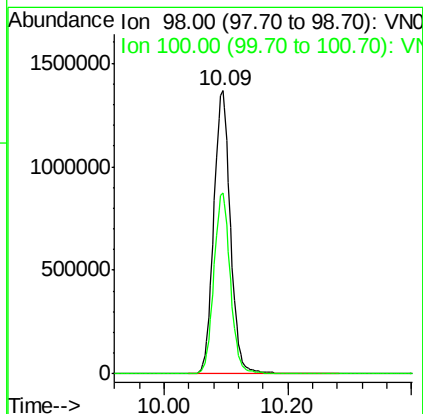
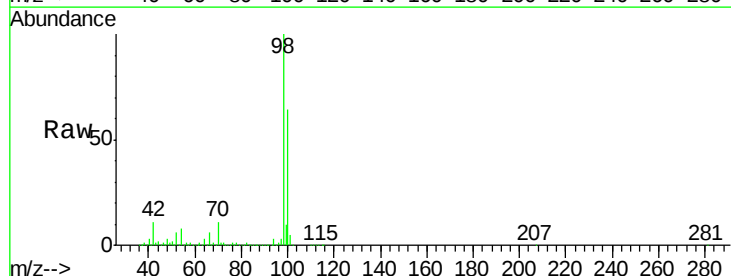
Tot Ion: 43 Resp: 767249
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.9 22.3#
 87 0.0 10.0 15.0#

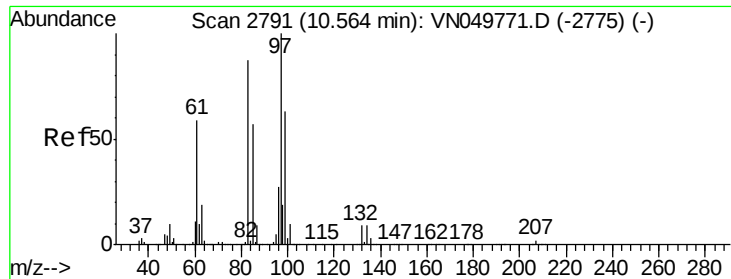


#50

Toluene-d8
 Concen: 51.82 ug/l
 RT: 10.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VN049805.D
 Acq: 13 Jul 2018 18:45

Tgt Ion: 98 Resp: 2549988
 Ion Ratio Lower Upper
 98 100
 100 63.3 51.7 77.5

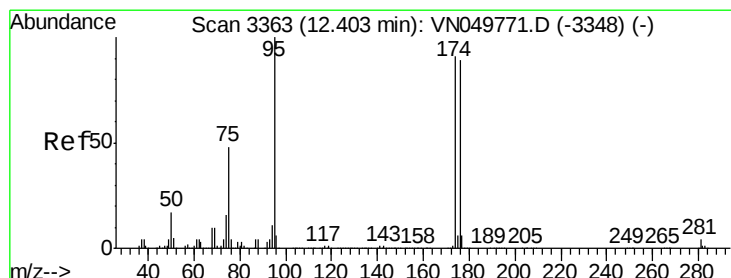
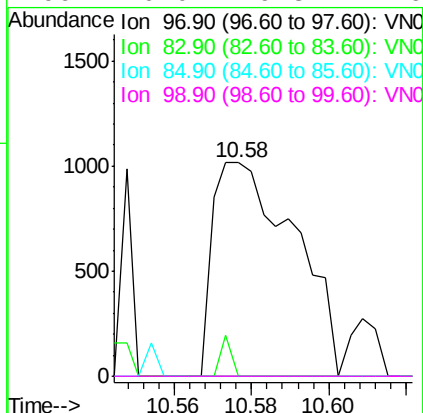
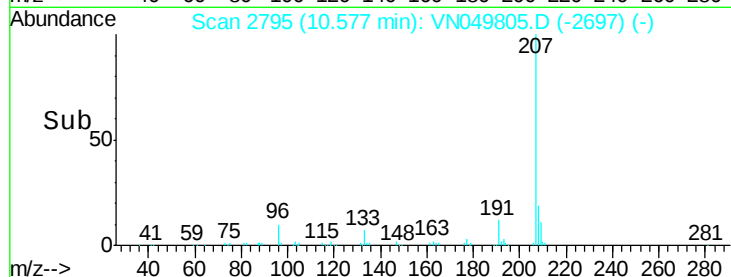
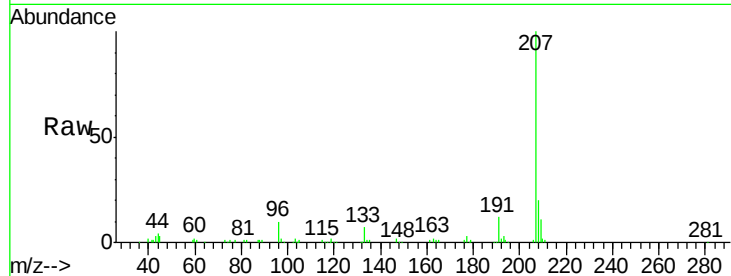




#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.58 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN049805.D
 Acq: 13 Jul 2018 18:45

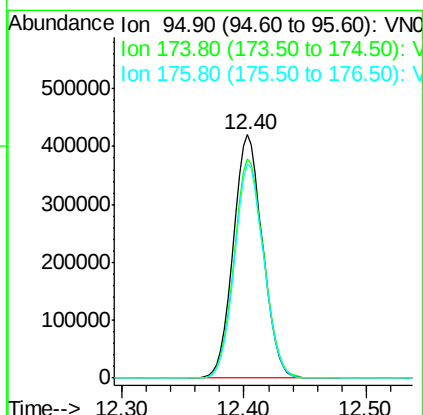
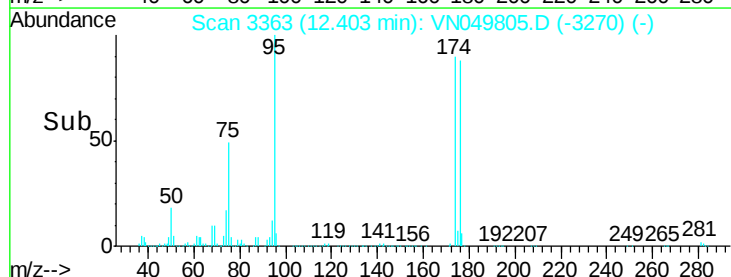
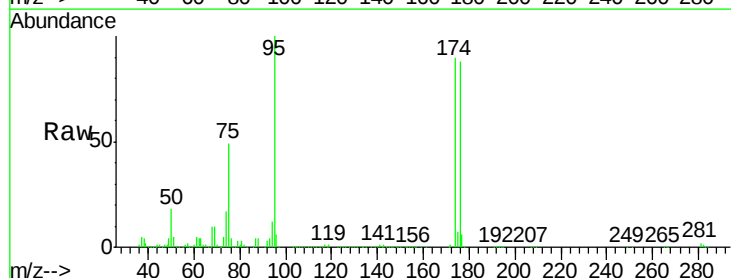
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#08

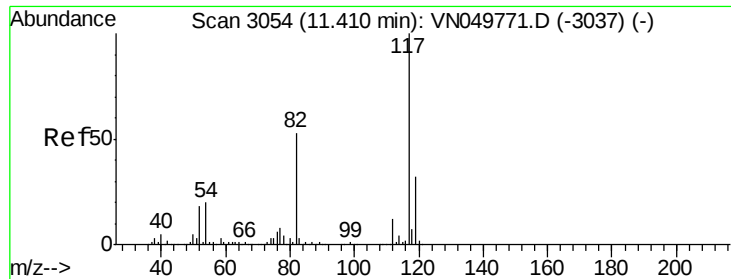
Tot Ion: 97 Resp: 1492
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.0 103.6#
 85 0.0 44.9 67.3#
 99 0.0 49.8 74.6#



#62
 4-Bromofluorobenzene
 Concen: 39.80 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN049805.D
 Acq: 13 Jul 2018 18:45

Tgt Ion: 95 Resp: 699586
 Ion Ratio Lower Upper
 95 100
 174 91.7 0.0 179.6
 176 88.1 0.0 174.0

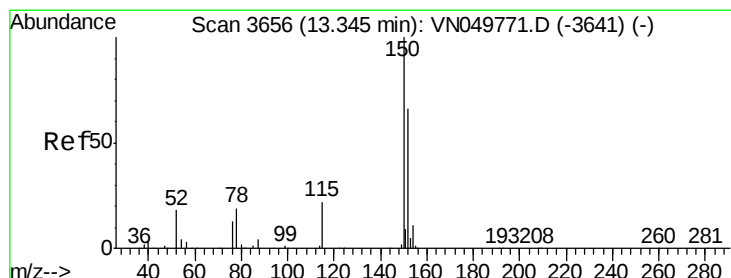
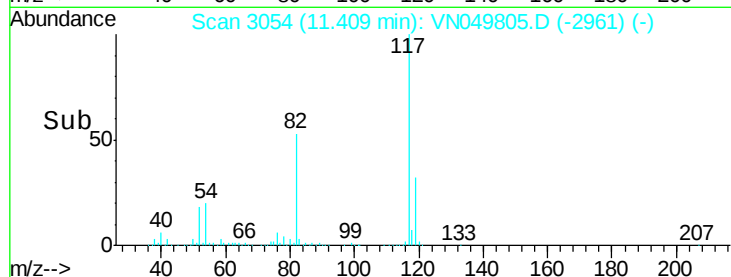
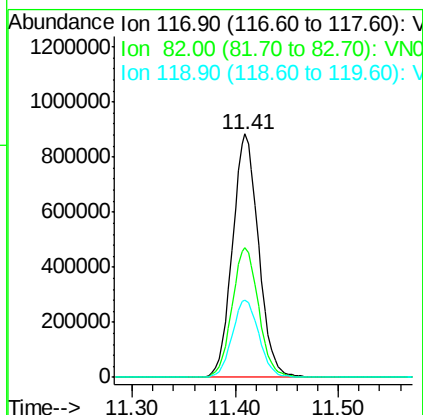
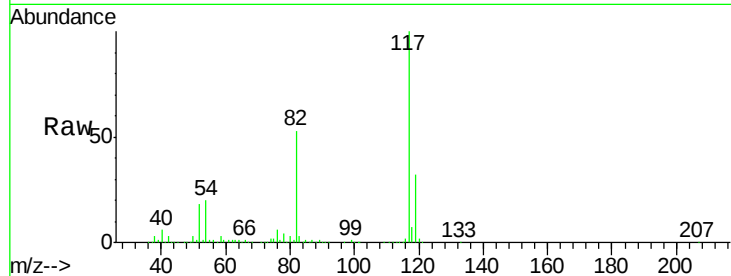




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049805.D
Acq: 13 Jul 2018 18:45

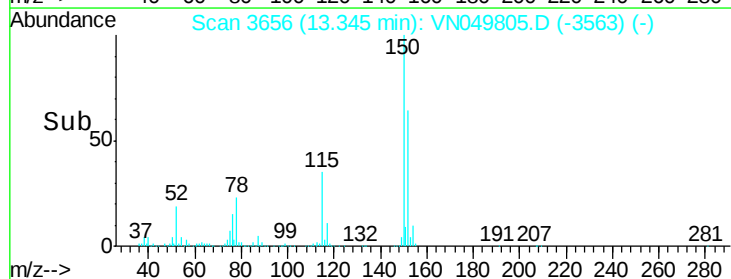
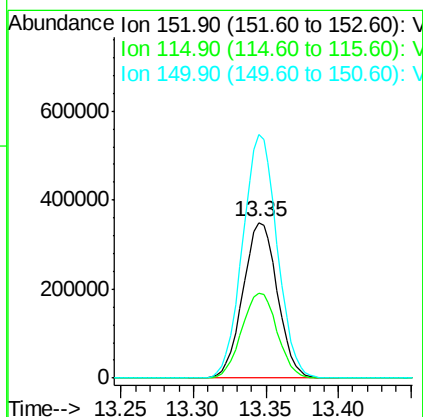
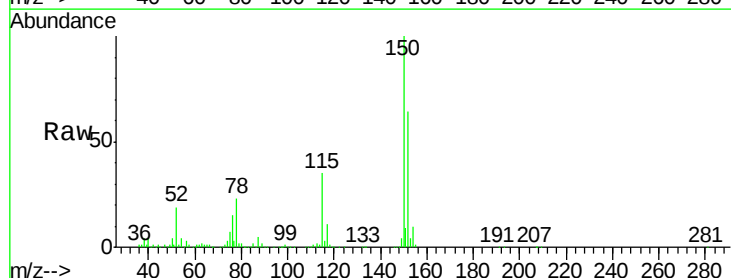
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#08

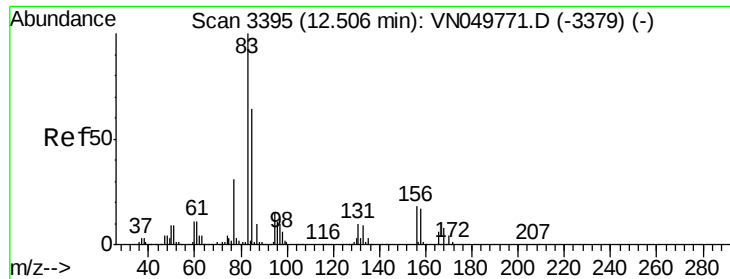
Tot Ion:117 Resp: 1557129
Ion Ratio Lower Upper
117 100
82 53.0 41.9 62.9
119 31.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049805.D
Acq: 13 Jul 2018 18:45

Tgt Ion:152 Resp: 578683
Ion Ratio Lower Upper
152 100
115 56.0 28.1 84.2
150 156.8 0.0 347.6





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#08

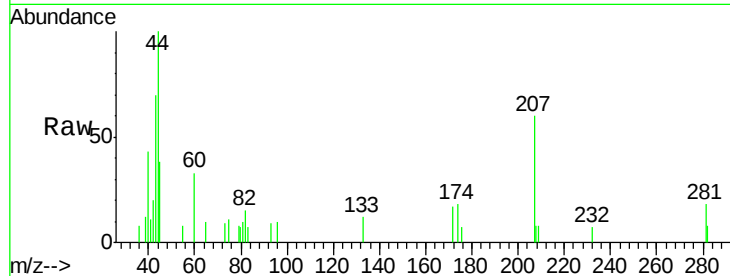
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

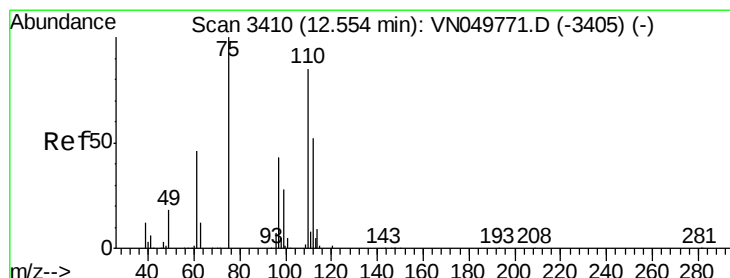
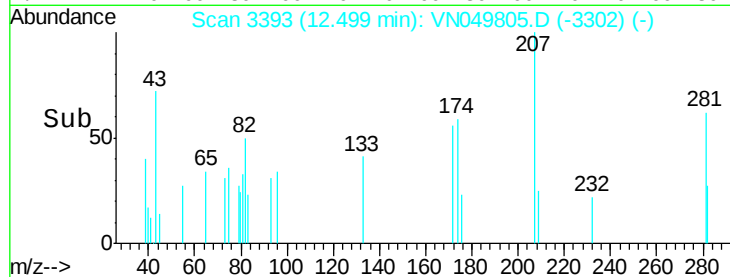
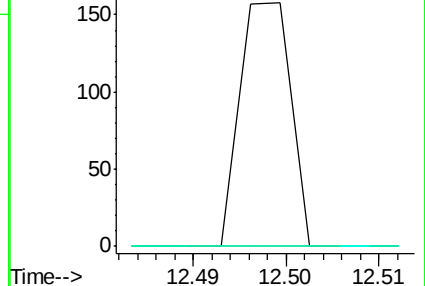
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 33.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049805.D

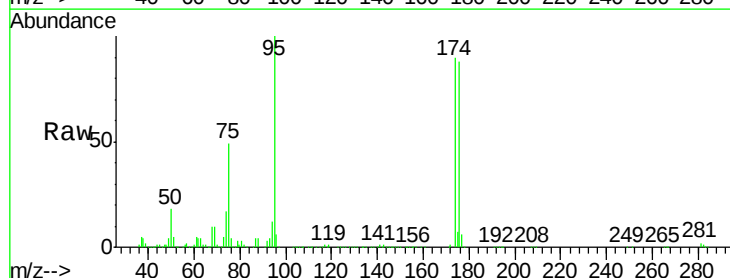
Acq: 13 Jul 2018 18:45

Tgt Ion: 75 Resp: 341954

Ion Ratio Lower Upper

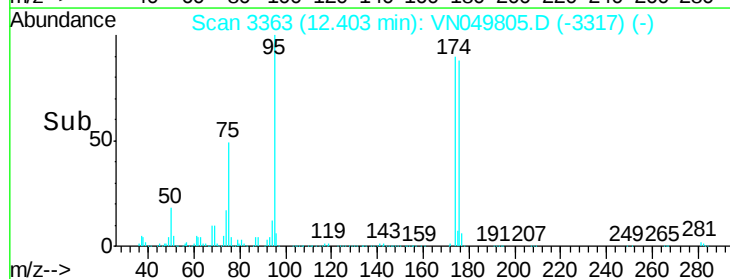
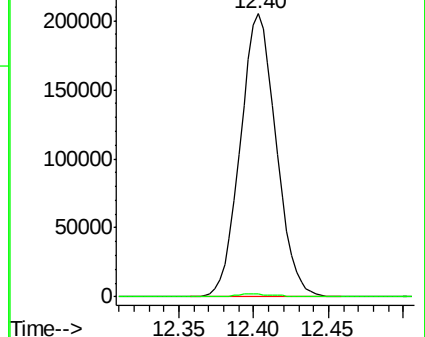
75 100

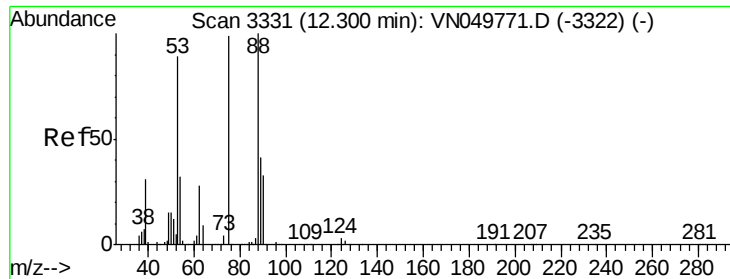
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 107.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#08

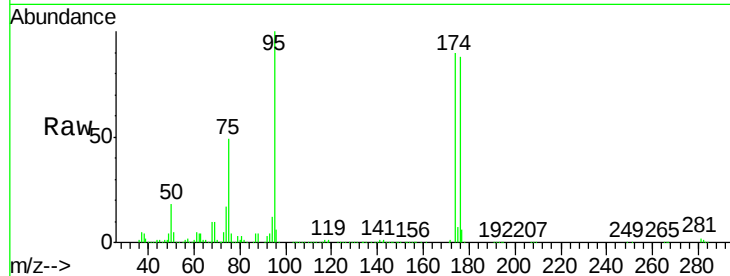
Tot Ion: 75 Resp: 341954

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

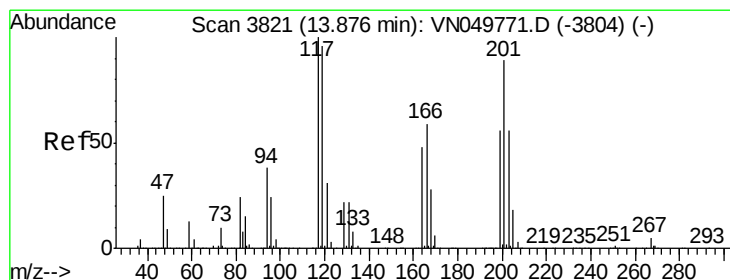
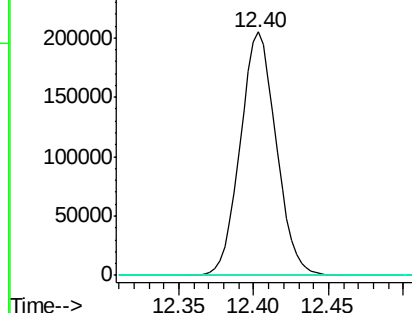
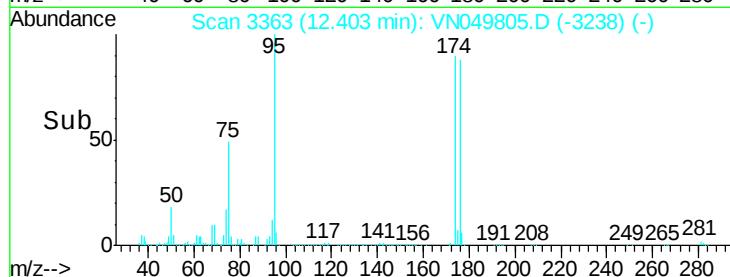
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049805.D (-3238) (-)

Ion 53.00 (52.70 to 53.70): VN049805.D (-3238) (-)

Ion 88.90 (88.60 to 89.60): VN049805.D (-3238) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.87 min Scan# 3819

Delta R.T. -0.01 min

Lab File: VN049805.D

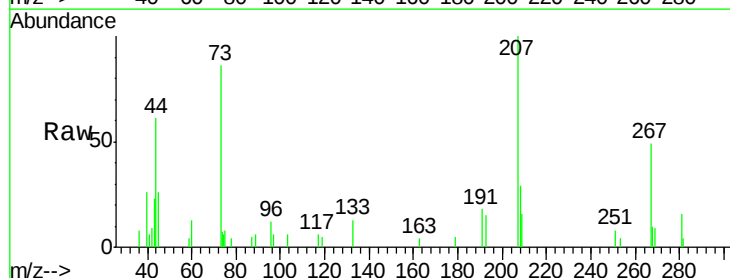
Acq: 13 Jul 2018 18:45

Tgt Ion: 117 Resp: 83

Ion Ratio Lower Upper

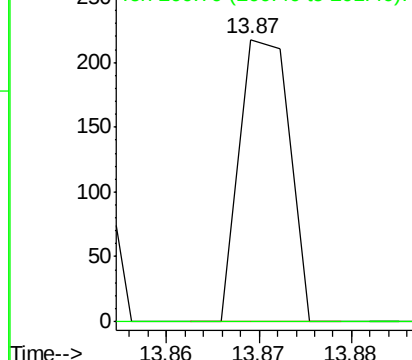
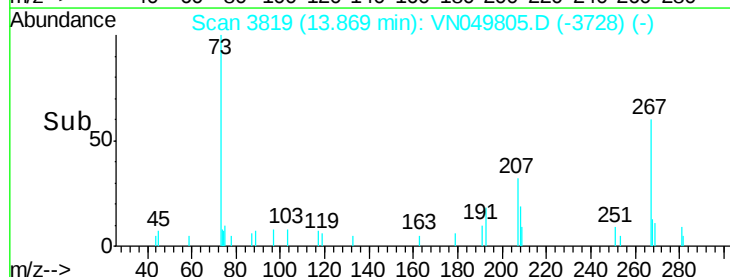
117 100

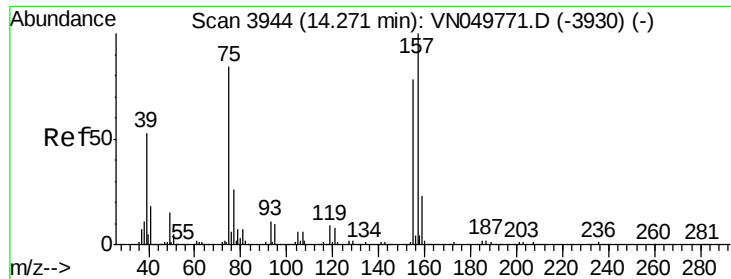
201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): VN049805.D (-3728) (-)

Ion 200.70 (200.40 to 201.40): VN049805.D (-3728) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.37 ug/l

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#08

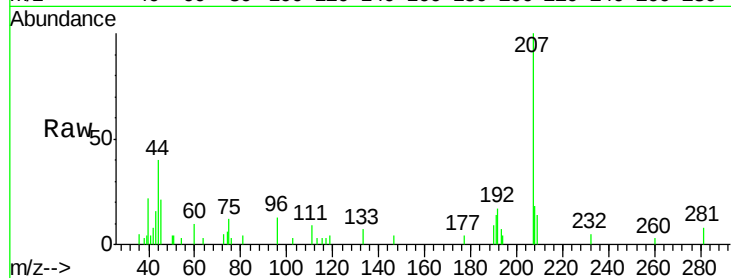
Tot Ion: 75 Resp: 1461

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.25

600

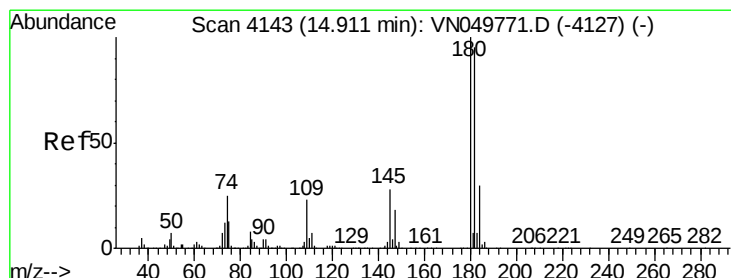
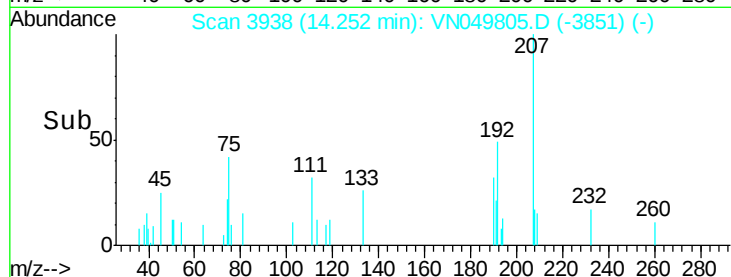
400

200

0

14.20 14.25 14.30

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.93 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049805.D

Acq: 13 Jul 2018 18:45

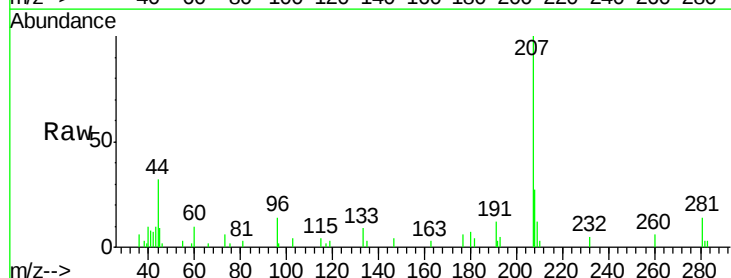
Tgt Ion: 180 Resp: 505

Ion Ratio Lower Upper

180 100

182 40.6 47.3 141.9#

145 0.0 14.4 43.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.91

600

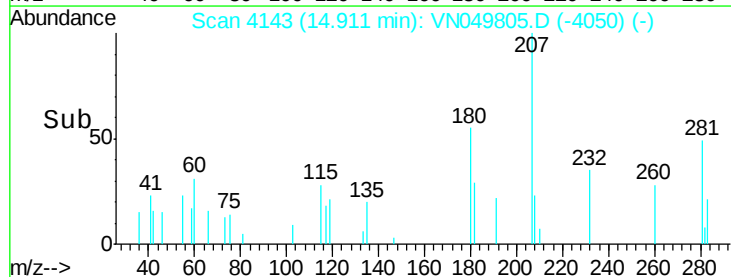
400

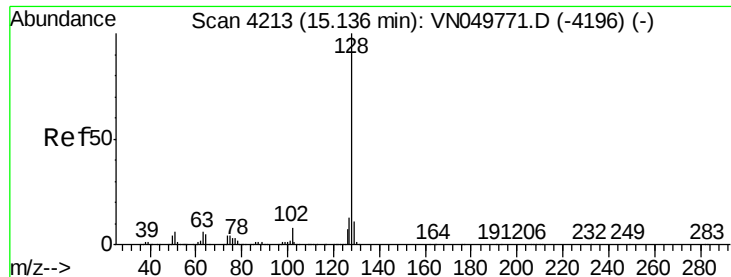
200

0

14.90 14.92 14.94

Time-->





#95
Naphthalene
Concen: 4.05 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN049805.D
Acq: 13 Jul 2018 18:45

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#08

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#

