

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057855.D
 Acq On : 10 Sep 2019 12:24
 Operator : JC/SP
 Sample : K4622-35
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 13:26:18 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	265603	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	472151	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	434578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	219680	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	312711	58.13	ug/l	0.00
Spiked Amount			Recovery	=	116.26%	
35) Dibromofluoromethane	7.58	113	213297	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	10.08	98	838421	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
62) 4-Bromofluorobenzene	12.40	95	274462	42.57	ug/l	0.00
Spiked Amount			Recovery	=	85.14%	

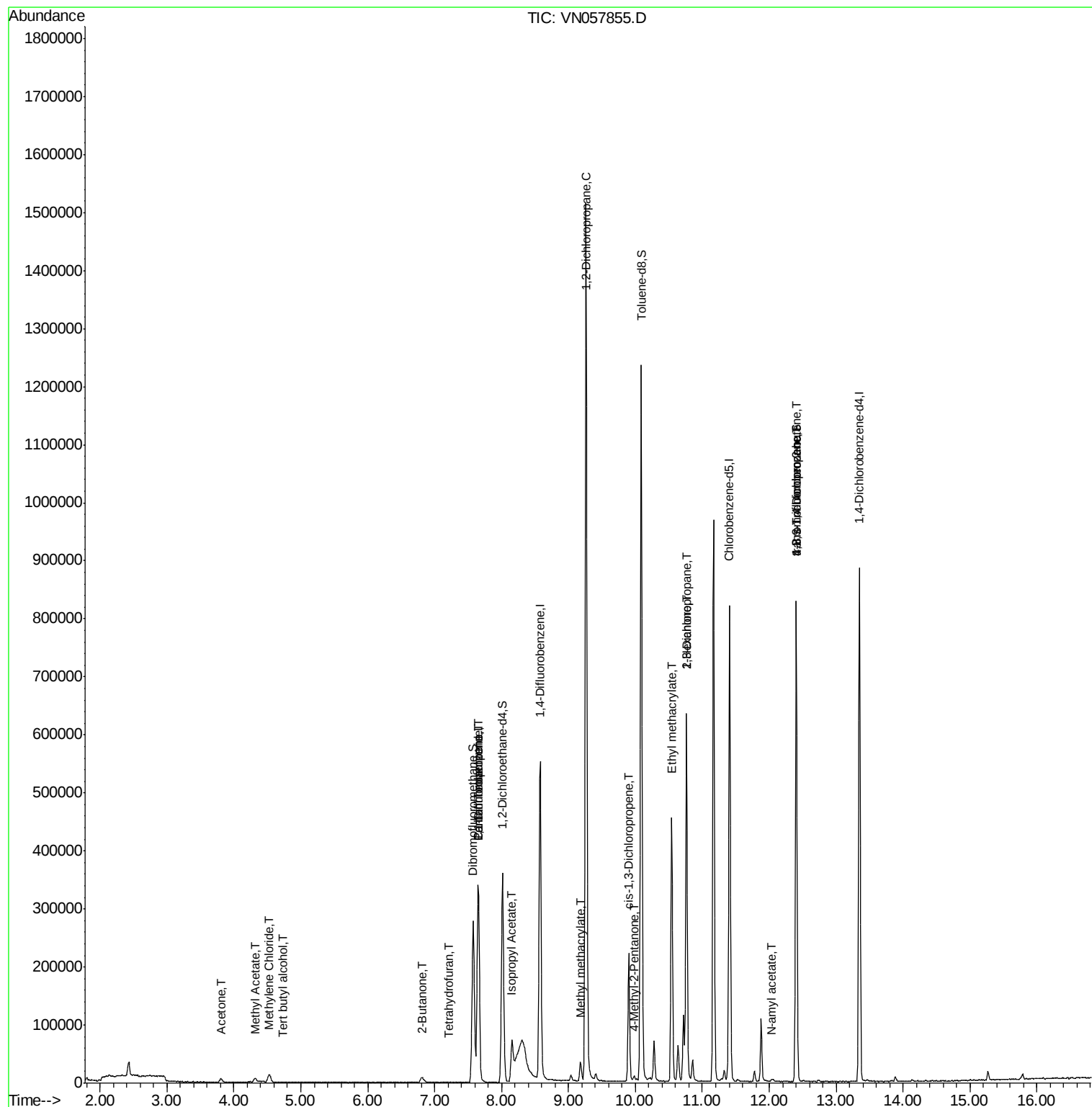
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	61	Below Cal	#	2
11) Tert butyl alcohol	4.75	59	615	0.945	ug/l #	72
16) Acetone	3.80	43	8877	5.034	ug/l	99
18) Methyl Acetate	4.31	43	11437	2.432	ug/l	94
20) Methylene Chloride	4.54	84	10225	1.860	ug/l #	83
25) 2-Butanone	6.83	43	1182	0.463	ug/l #	49
29) Tetrahydrofuran	7.21	42	674	0.429	ug/l #	38
31) Cyclohexane	7.65	56	7499	Below Cal	#	41
36) 1,1-Dichloropropene	7.65	75	22796	4.163	ug/l #	51
38) Carbon Tetrachloride	7.65	117	28419	5.685	ug/l #	16
43) Isopropyl Acetate	8.16	43	102429	10.766	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1696	0.354	ug/l #	44
48) Methyl methacrylate	9.17	41	5319	1.102	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	6239	1.108	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	36482	5.421	ug/l #	65
56) Ethyl methacrylate	10.55	69	1494	0.226	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6012	0.793	ug/l #	43
59) 2-Hexanone	10.76	43	96858	22.952	ug/l #	53
74) N-amyl acetate	12.04	43	3541	0.477	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	151017	30.389	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151017	106.938	ug/l #	6
95) Naphthalene	15.13	128	386	Below Cal	#	69

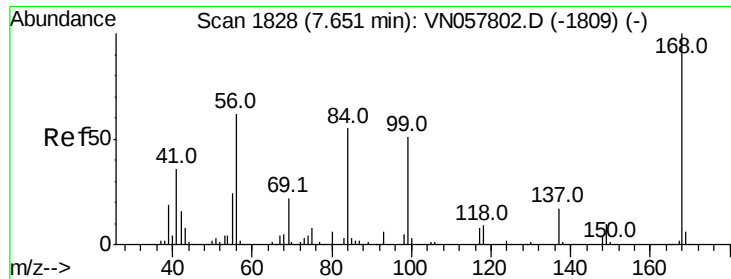
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :

MSVOA_N

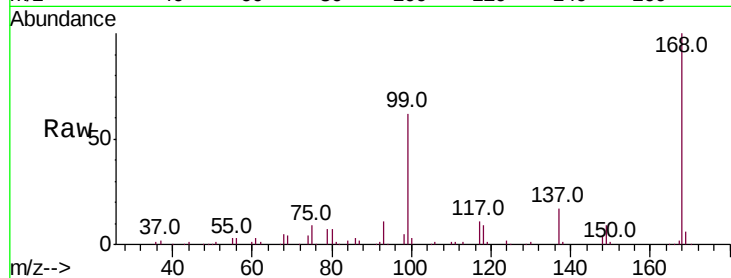
ClientSampled :

Tot Ion:168 Resp: 265603

Ion Ratio Lower Upper

168 100

99 61.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

120000

100000

80000

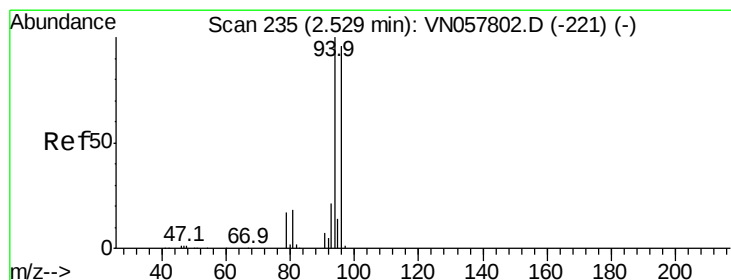
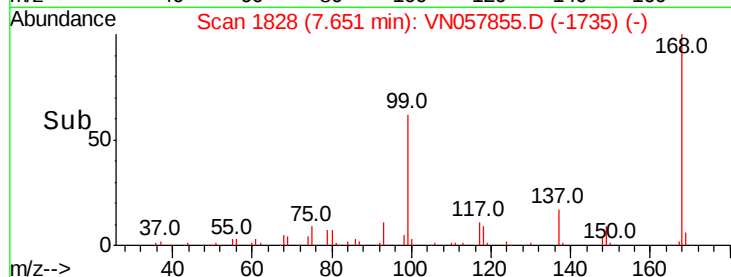
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057855.D

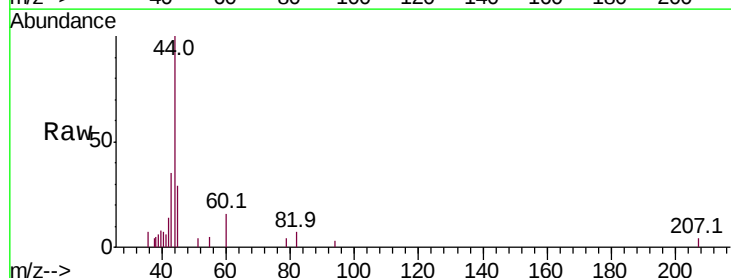
Acq: 10 Sep 2019 12:24

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.54

200

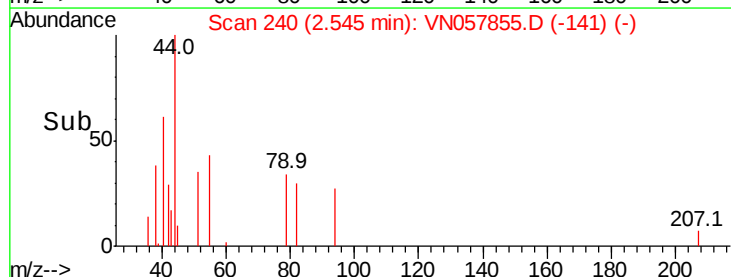
150

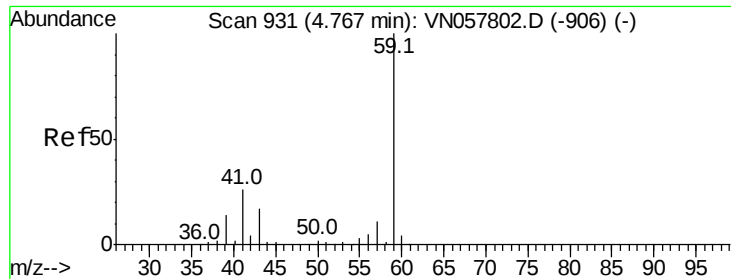
100

50

0

Time-->

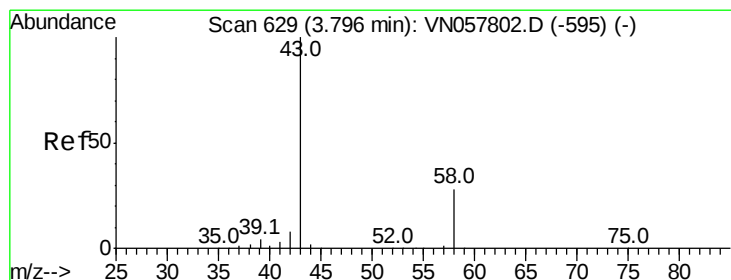
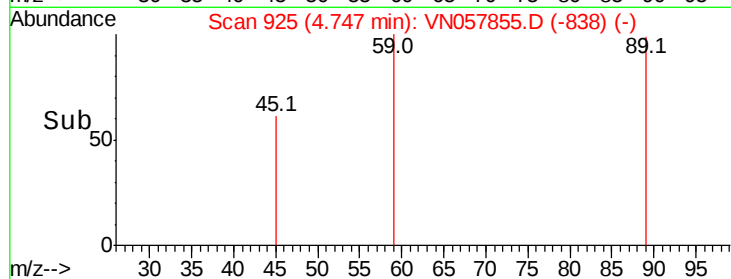
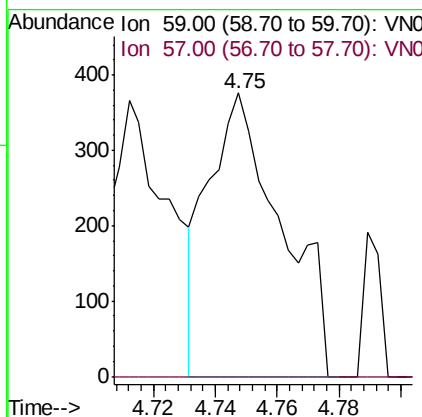
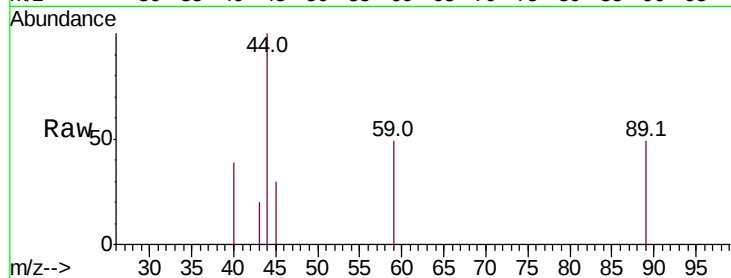




#11
Tert butyl alcohol
Concen: 0.945 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

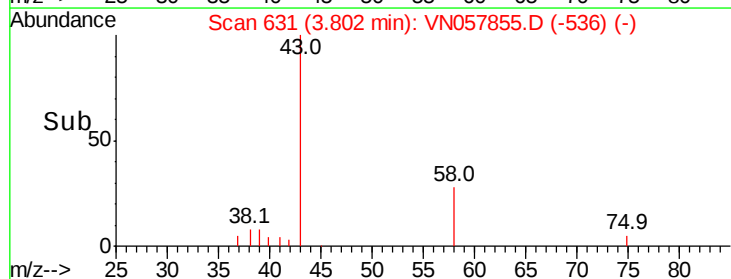
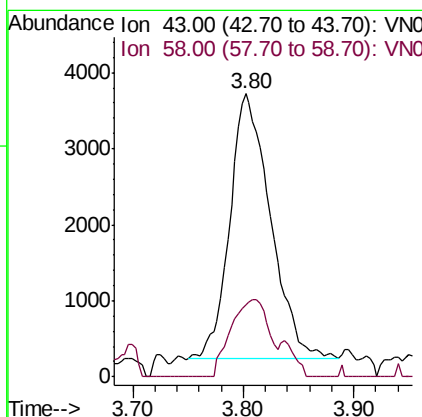
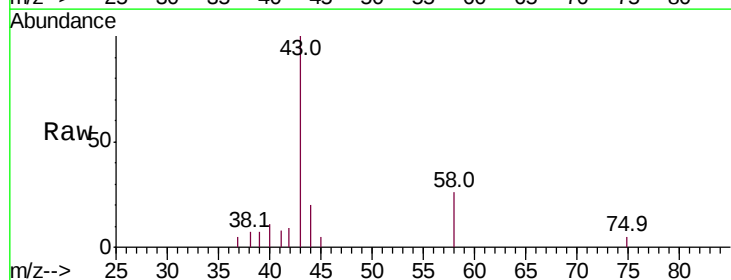
Instrument :
MSVOA_N
ClientSampleId :

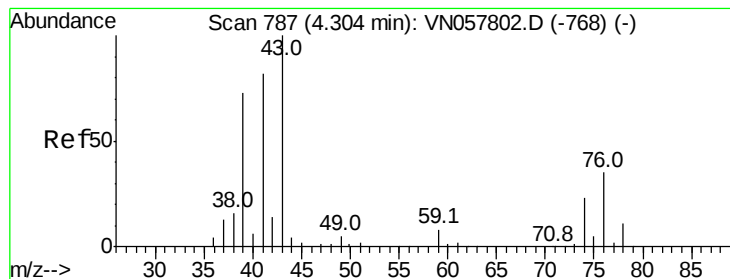
Tot Ion: 59 Resp: 615
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 5.034 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

Tgt Ion: 43 Resp: 8877
Ion Ratio Lower Upper
43 100
58 27.3 22.2 33.2





#18

Methyl Acetate

Concen: 2.432 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

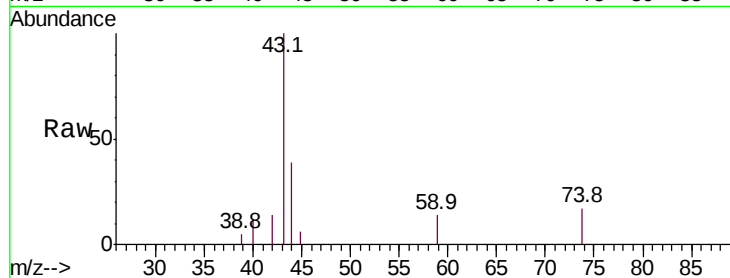
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 11437

Ion Ratio Lower Upper

43 100

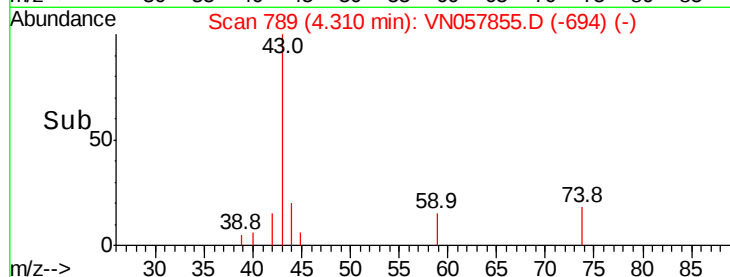
74 19.6 17.9 26.9



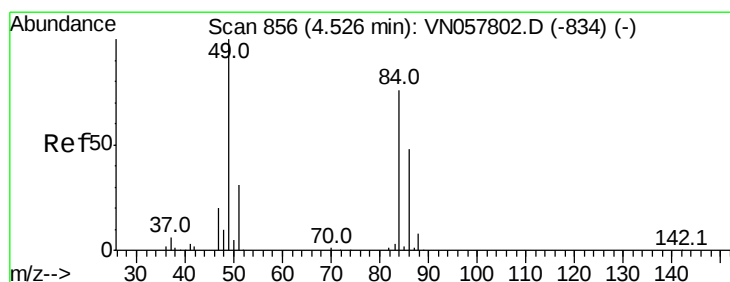
Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN057802.D (-768) (-)

Time-->



Time-->



#20

Methylene Chloride

Concen: 1.860 ug/l

RT: 4.54 min Scan# 859

Delta R.T. 0.01 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Tgt Ion: 84 Resp: 10225

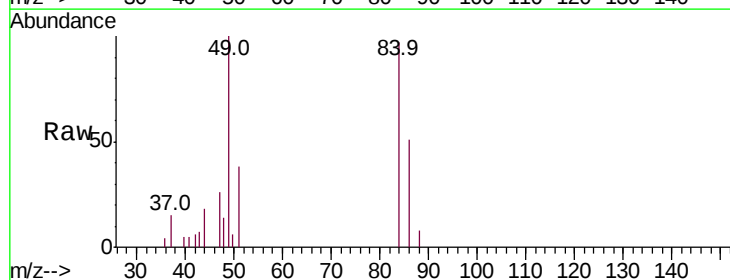
Ion Ratio Lower Upper

84 100

49 103.2 104.8 157.2#

51 39.0 33.0 49.4

86 53.1 50.5 75.7



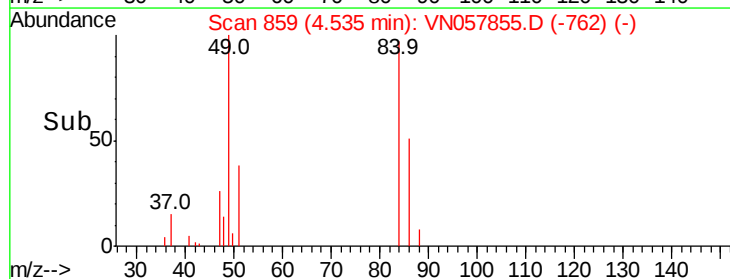
Abundance Ion 83.90 (83.60 to 84.60): VN057802.D (-834) (-)

Ion 48.90 (48.60 to 49.60): VN057802.D (-834) (-)

Ion 50.90 (50.60 to 51.60): VN057802.D (-834) (-)

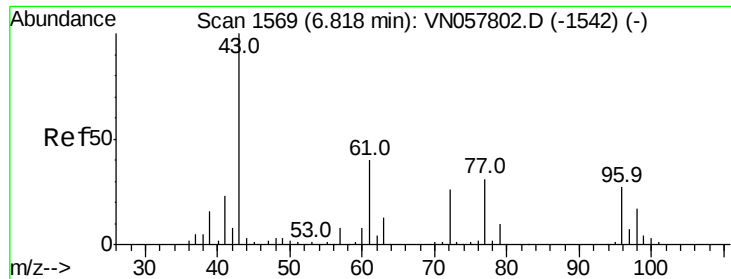
Ion 85.90 (85.60 to 86.60): VN057802.D (-834) (-)

Time-->



Time-->

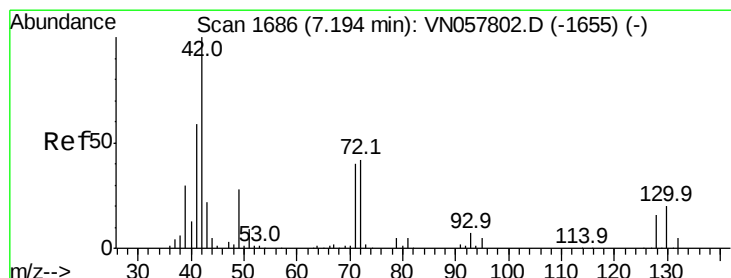
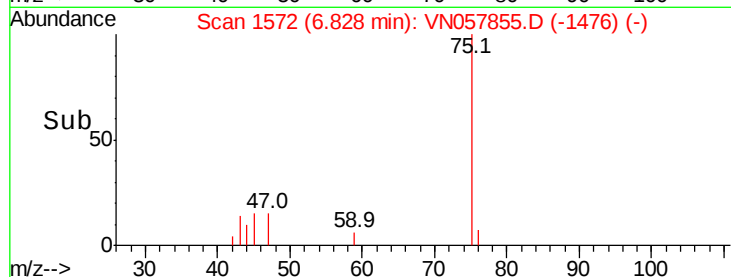
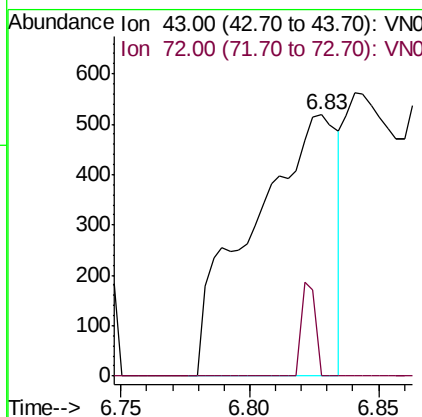
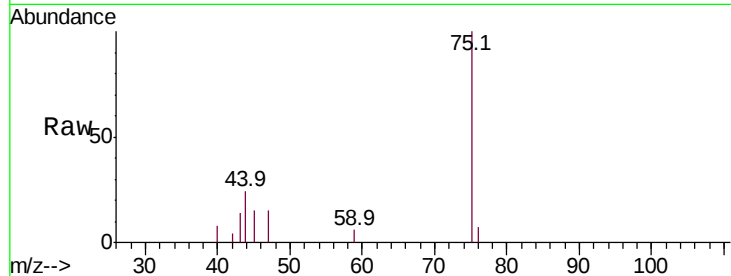
Time-->



#25
2-Butanone
Concen: 0.463 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

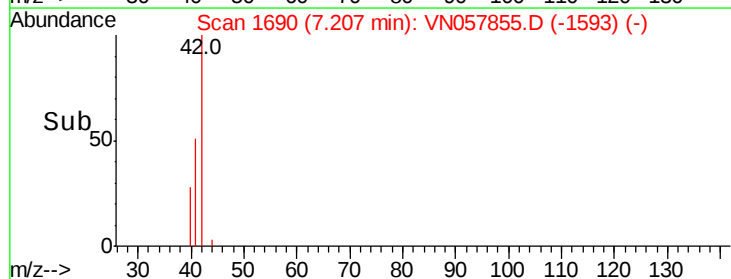
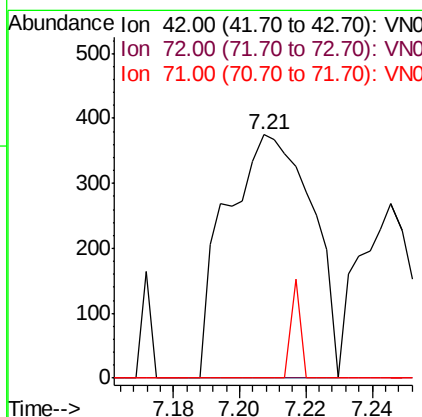
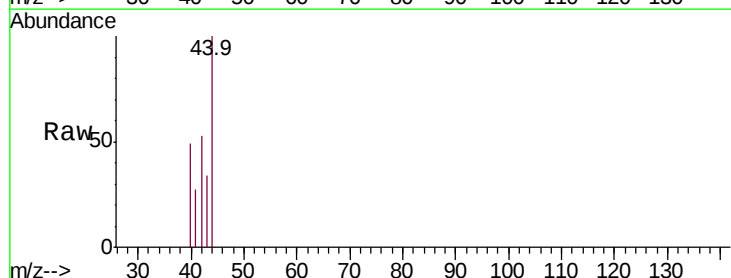
Instrument :
MSVOA_N
ClientSampleId :

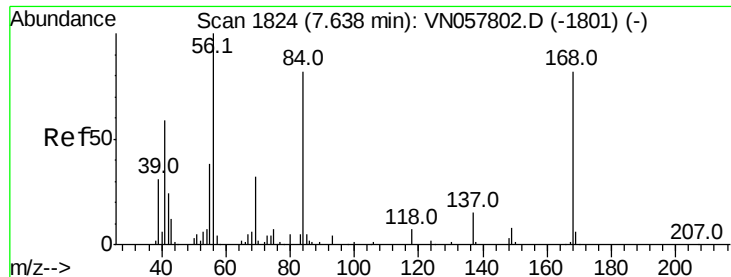
Tot Ion: 43 Resp: 1182
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.429 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

Tgt Ion: 42 Resp: 674
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 4.3 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

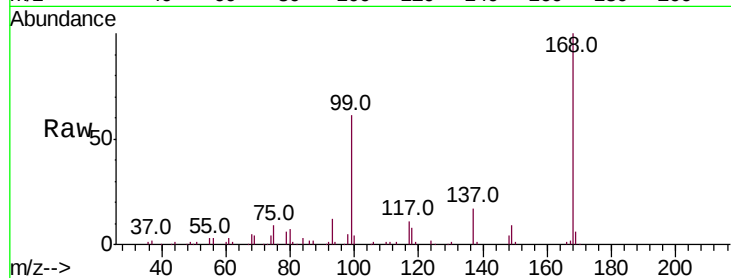
Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

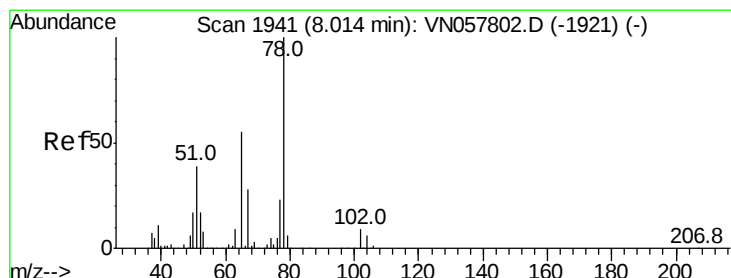
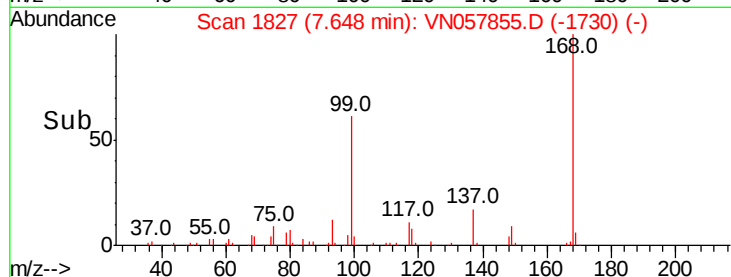
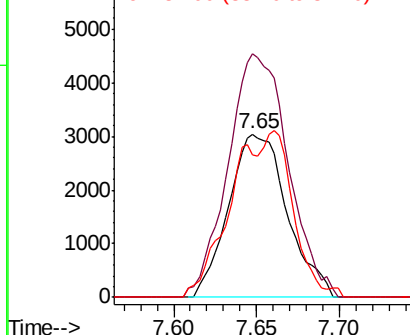
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7499

Ion	Ratio	Lower	Upper
56	100		
69	148.9	25.9	38.9#
84	81.8	65.6	98.4



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: 58.129 ug/l

RT: 8.01 min Scan# 1941

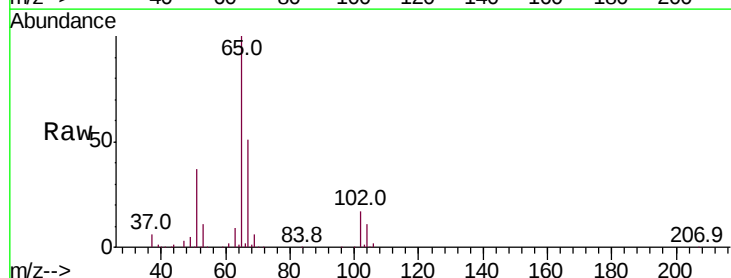
Delta R.T. 0.00 min

Lab File: VN057855.D

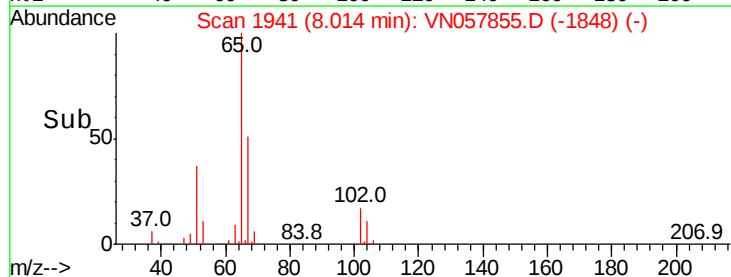
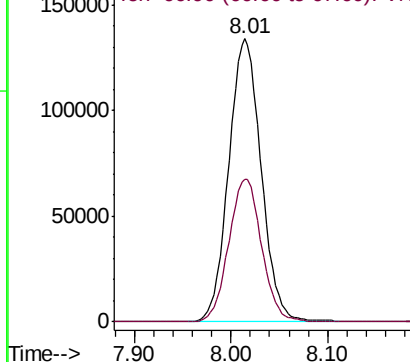
Acq: 10 Sep 2019 12:24

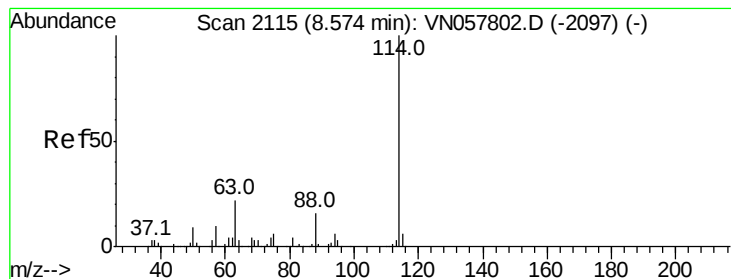
Tgt Ion: 65 Resp: 312711

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	104.0



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: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :

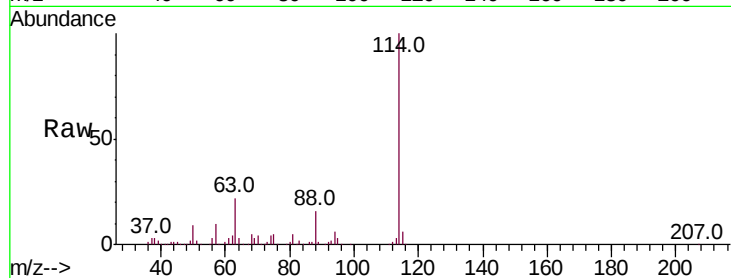
Tot Ion:114 Resp: 472151

Ion Ratio Lower Upper

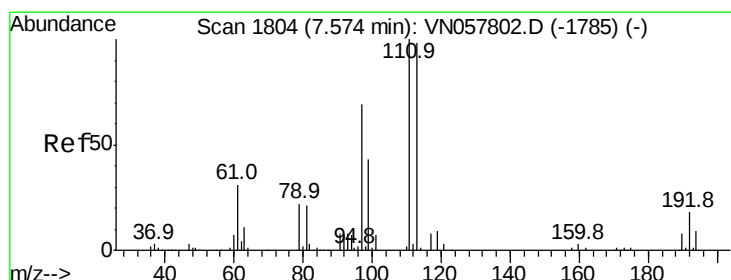
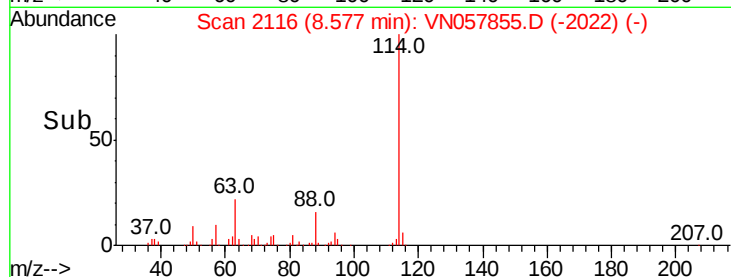
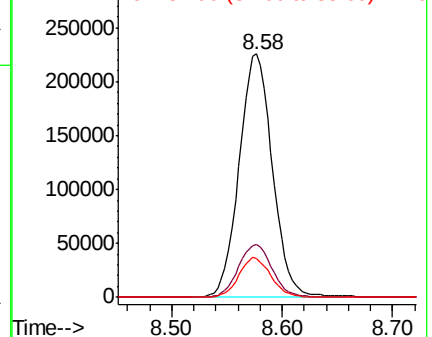
114 100

63 21.6 0.0 44.0

88 15.8 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: 48.946 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

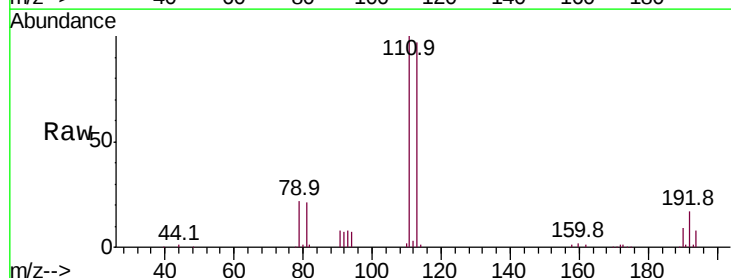
Tgt Ion:113 Resp: 213297

Ion Ratio Lower Upper

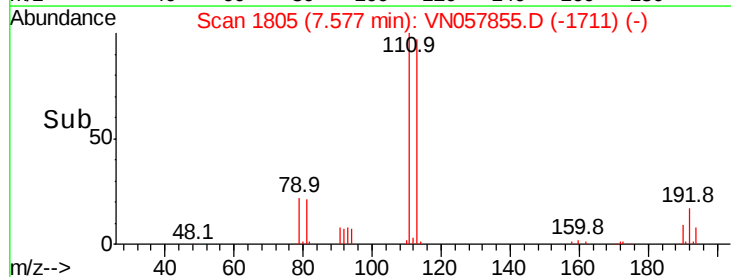
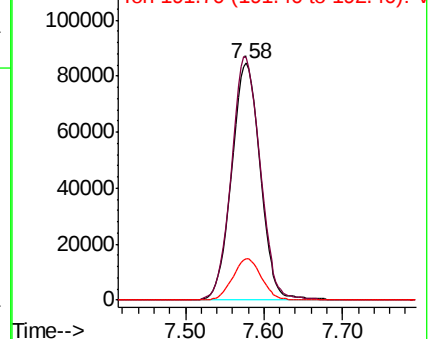
113 100

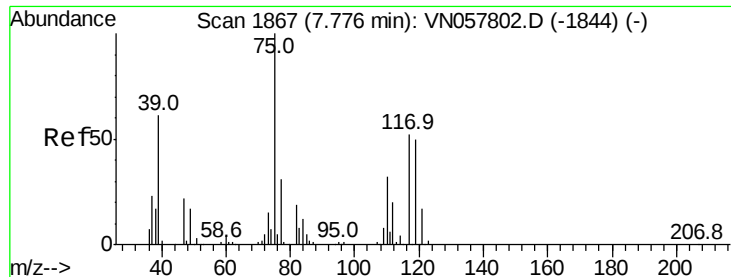
111 103.2 81.3 121.9

192 17.4 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

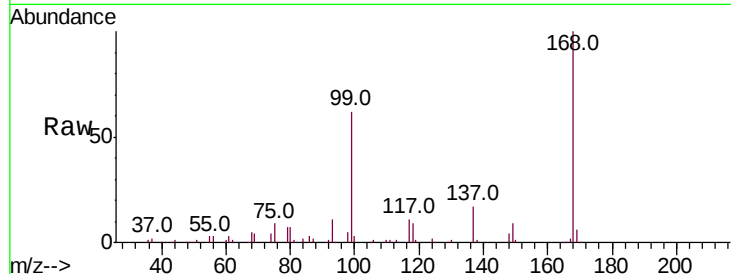




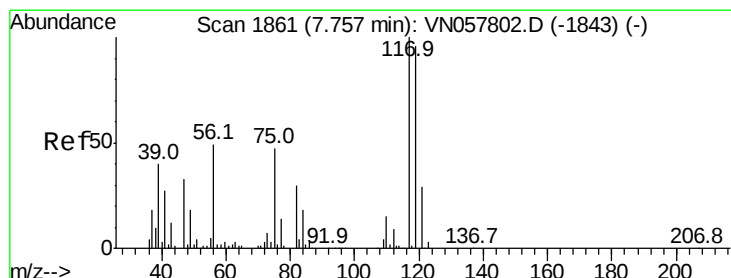
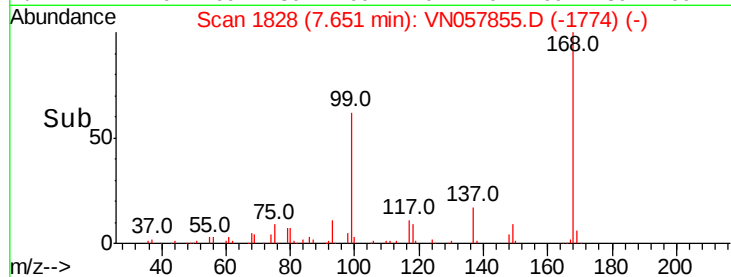
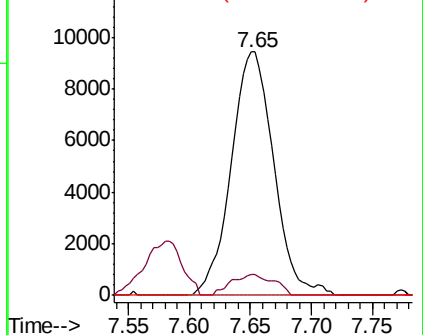
#36
 1,1-Dichloropropene
 Concen: 4.163 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057855.D
 Acq: 10 Sep 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.3	48.9#
77	0.0	25.0	37.4#

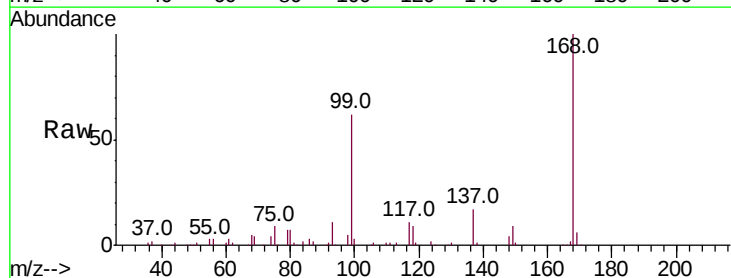


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

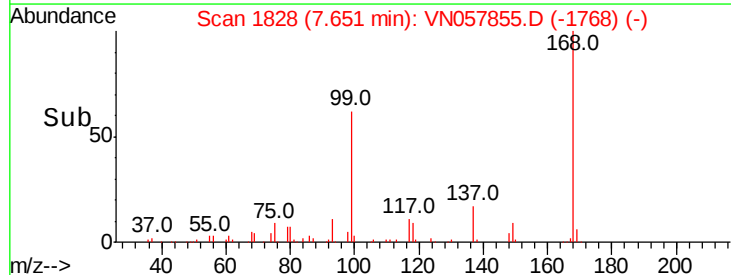
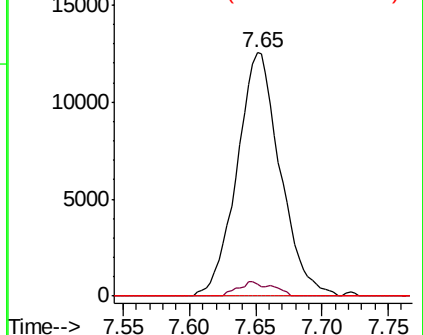


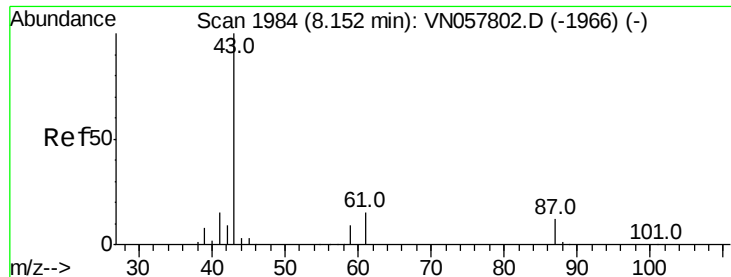
#38
 Carbon Tetrachloride
 Concen: 5.685 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057855.D
 Acq: 10 Sep 2019 12:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 10.766 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

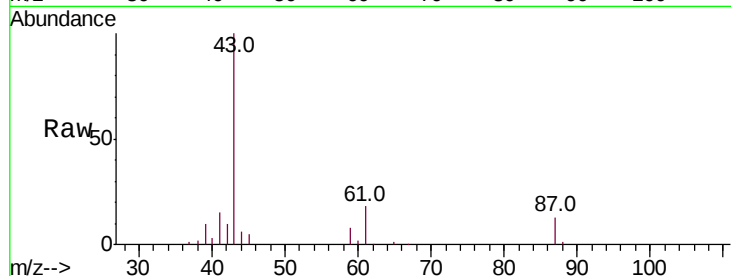
Tot Ion: 43 Resp: 102429

Ion Ratio Lower Upper

43 100

61 15.3 20.1 30.1#

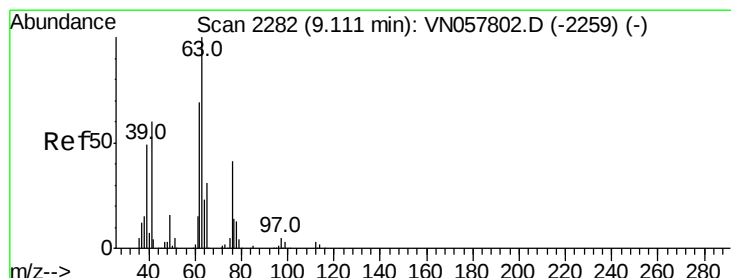
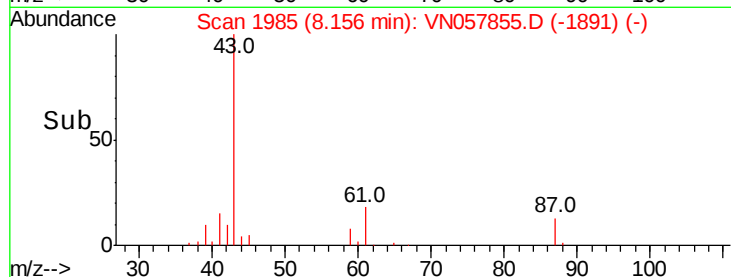
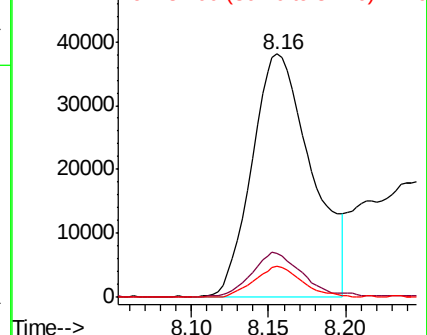
87 10.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.354 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057855.D

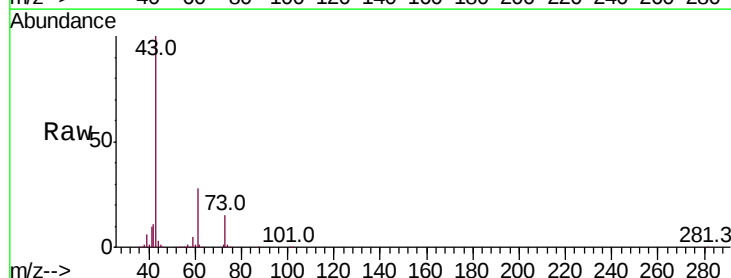
Acq: 10 Sep 2019 12:24

Tgt Ion: 63 Resp: 1696

Ion Ratio Lower Upper

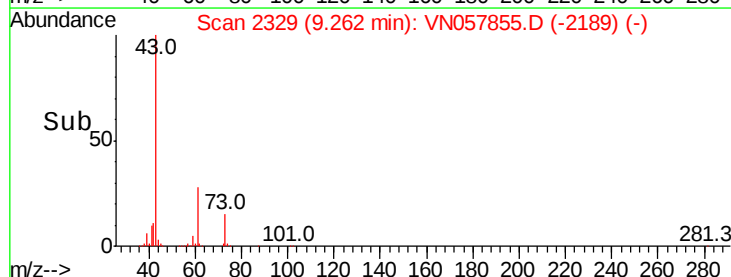
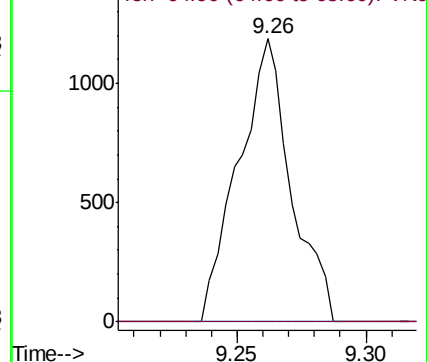
63 100

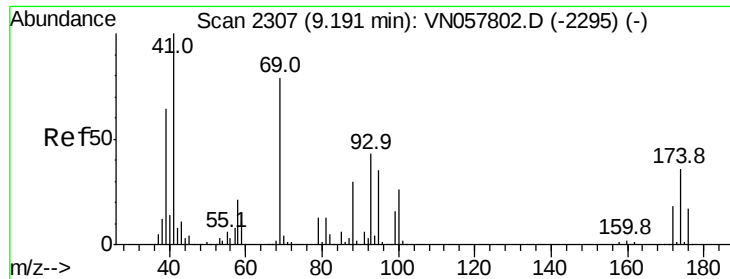
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

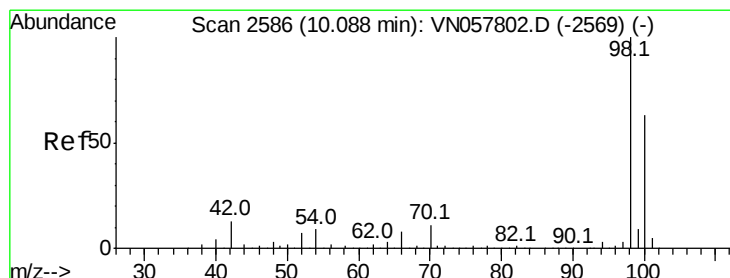
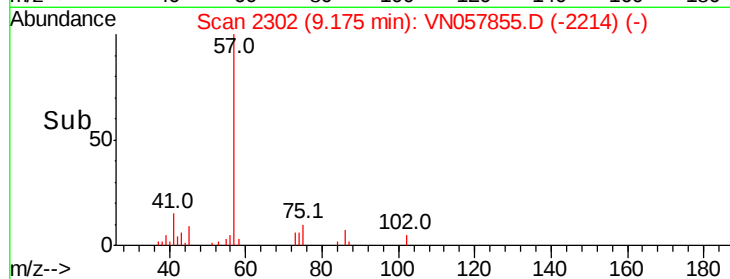
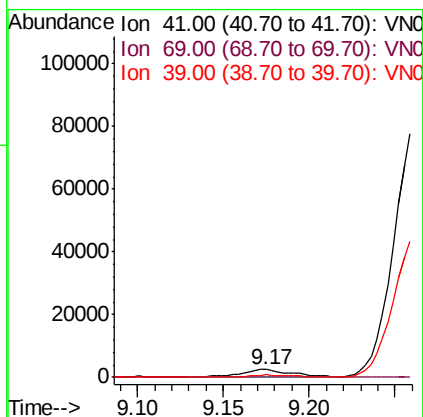
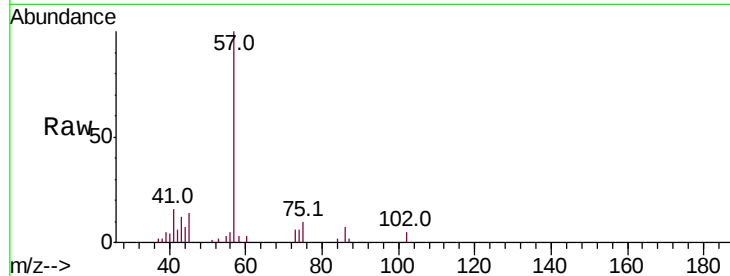




#48
Methvl methacrylate
Concen: 1.102 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

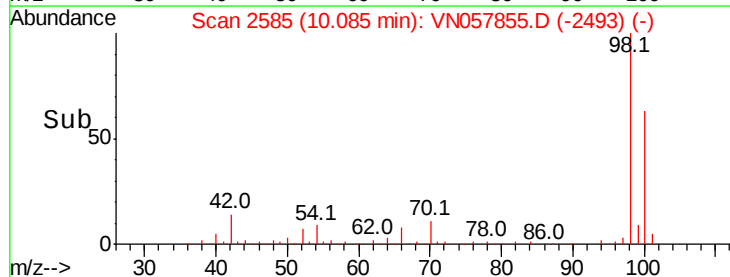
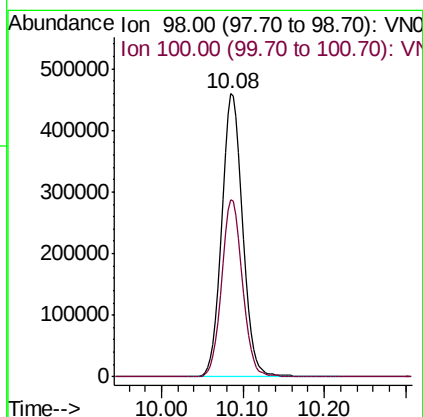
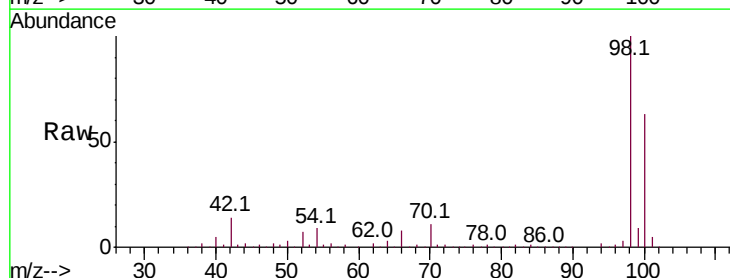
Instrument :
MSVOA_N
ClientSampled :

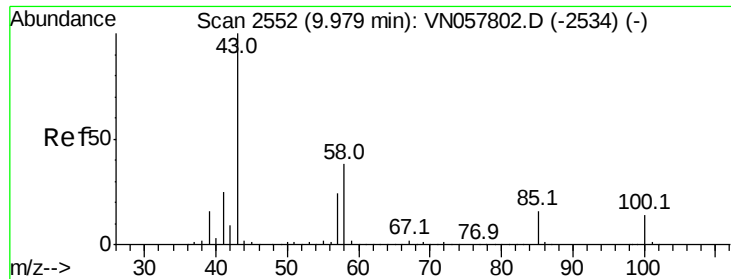
Tot Ion: 41 Resp: 5319
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 49.554 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

Tgt Ion: 98 Resp: 838421
Ion Ratio Lower Upper
98 100
100 62.4 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.108 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :

MSVOA_N

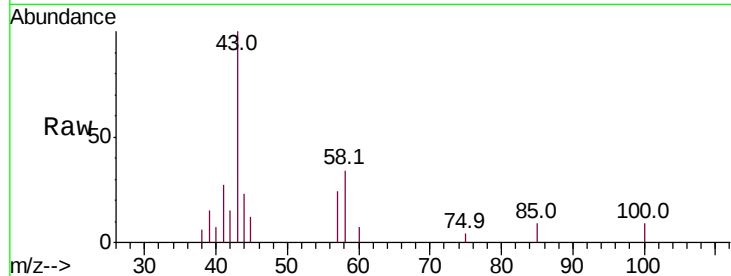
ClientSampled :

Tot Ion: 43 Resp: 6239

Ion Ratio Lower Upper

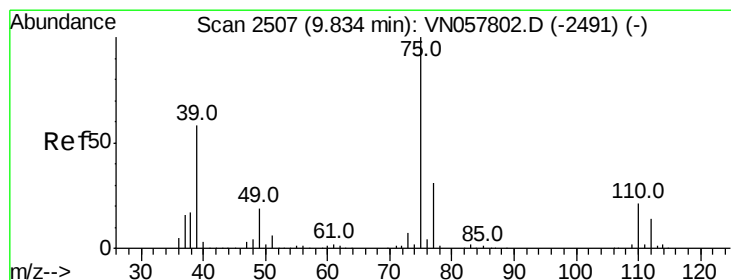
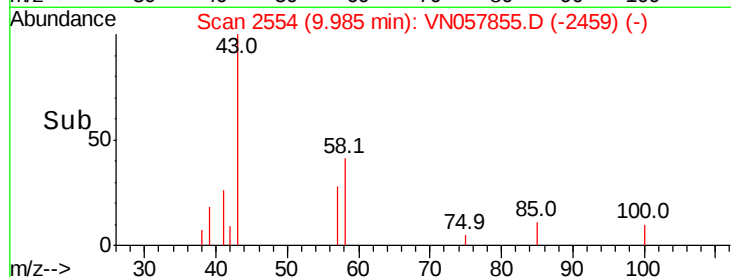
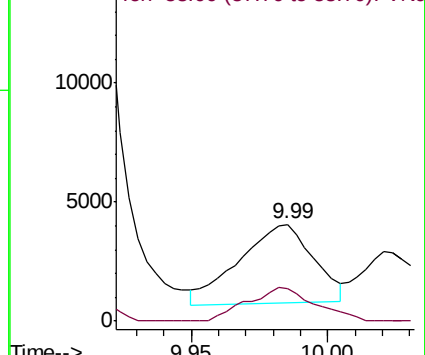
43 100

58 39.0 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.421 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

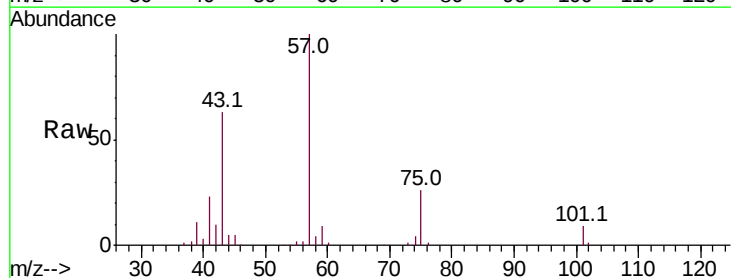
Tgt Ion: 75 Resp: 36482

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

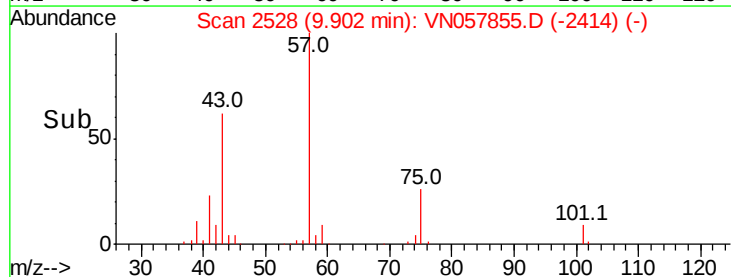
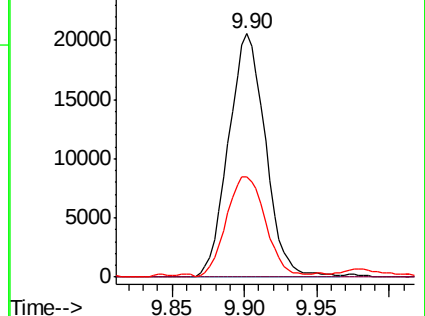
39 40.2 46.2 69.4#

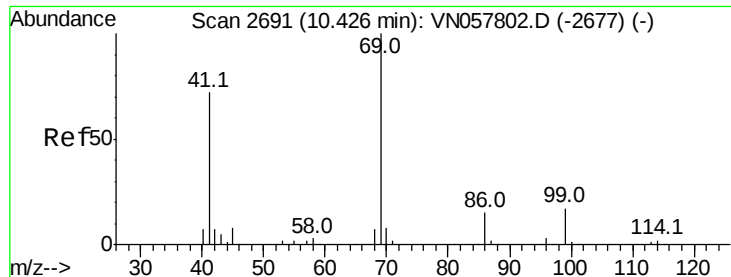


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)





#56

Ethyl methacrylate

Concen: 0.226 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. 0.13 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

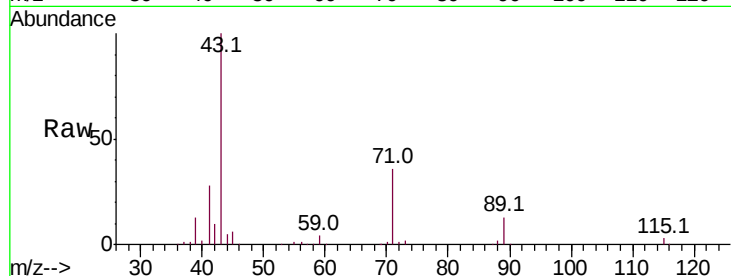
Tot Ion: 69 Resp: 1494

Ion Ratio Lower Upper

69 100

41 6378.4 56.7 85.1#

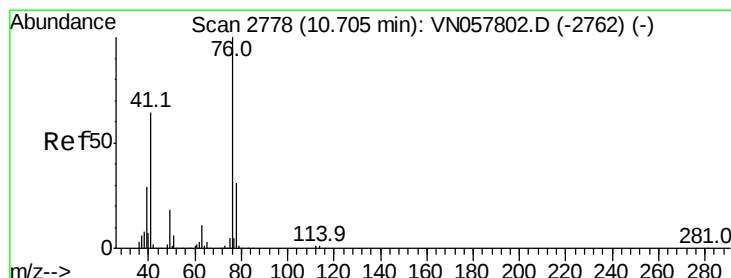
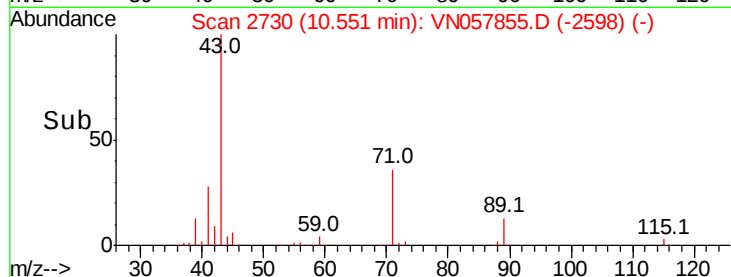
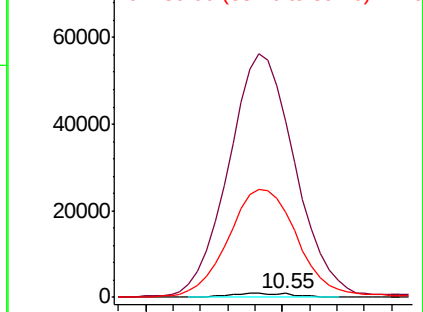
39 2979.4 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.793 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057855.D

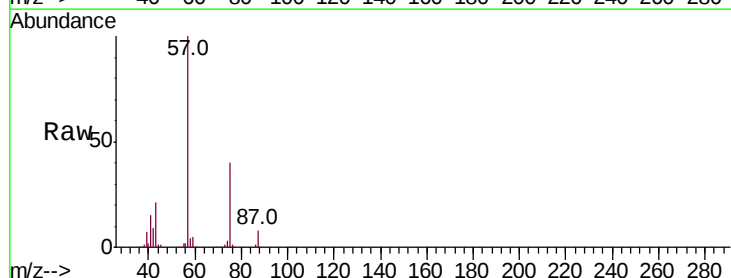
Acq: 10 Sep 2019 12:24

Tgt Ion: 76 Resp: 6012

Ion Ratio Lower Upper

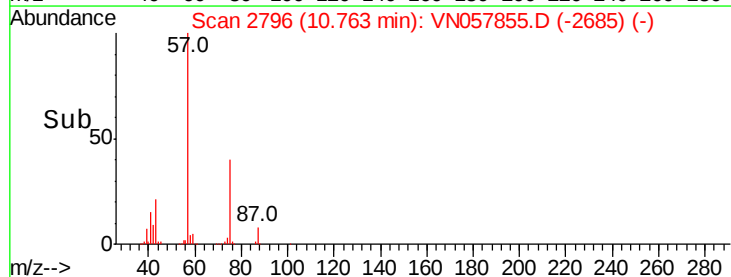
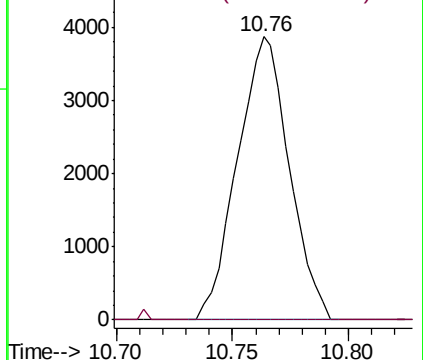
76 100

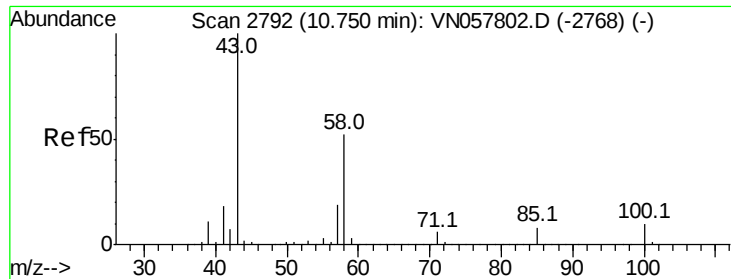
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

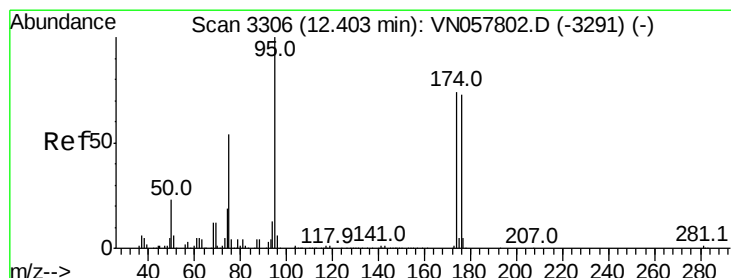
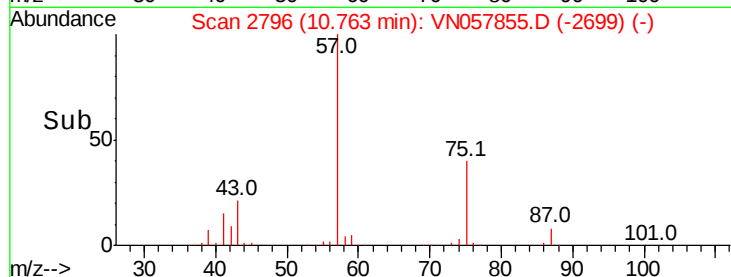
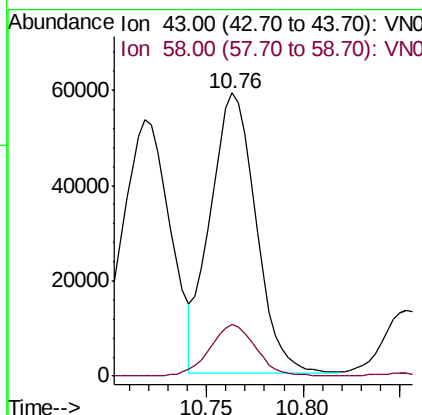
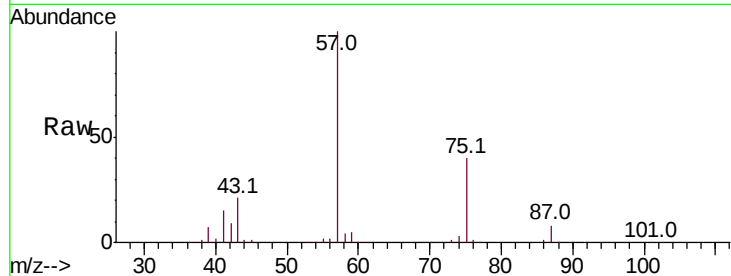




#59
2-Hexanone
Concen: 22.952 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

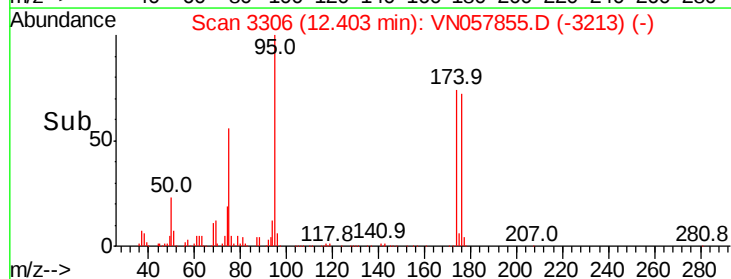
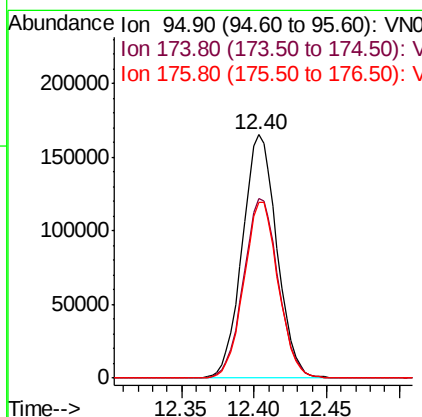
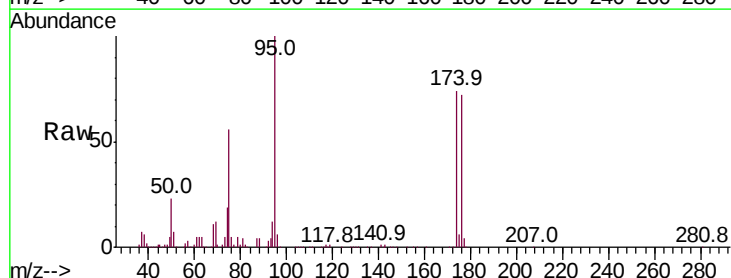
Instrument :
MSVOA_N
ClientSampled :

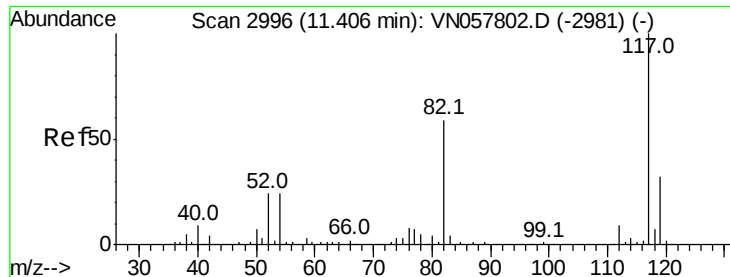
Tot Ion: 43 Resp: 96858
Ion Ratio Lower Upper
43 100
58 18.6 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.567 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

Tgt Ion: 95 Resp: 274462
Ion Ratio Lower Upper
95 100
174 74.2 0.0 150.2
176 72.1 0.0 146.0

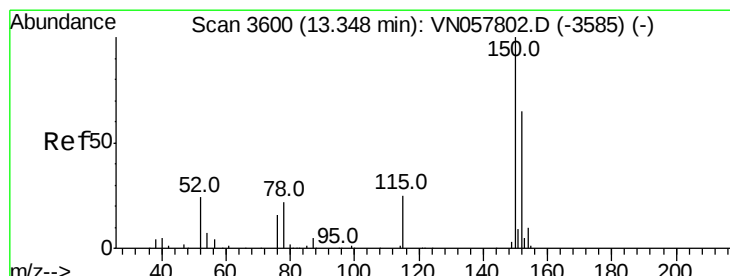
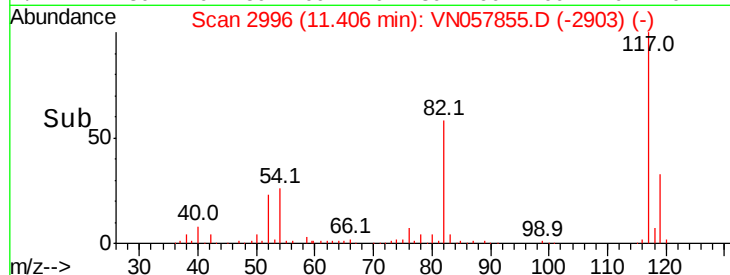
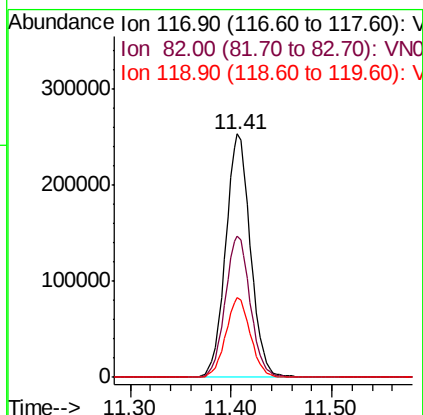
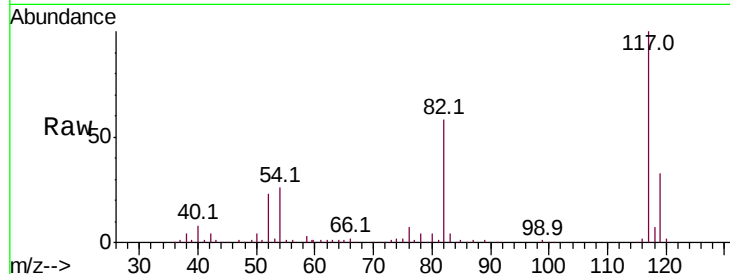




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

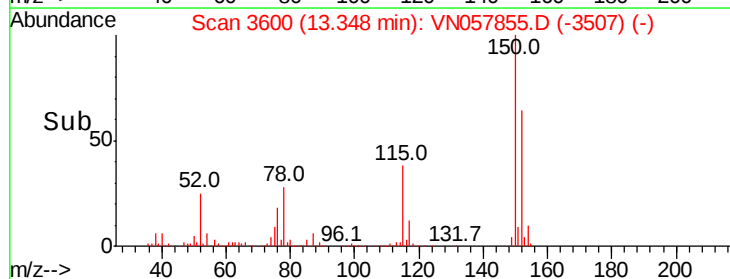
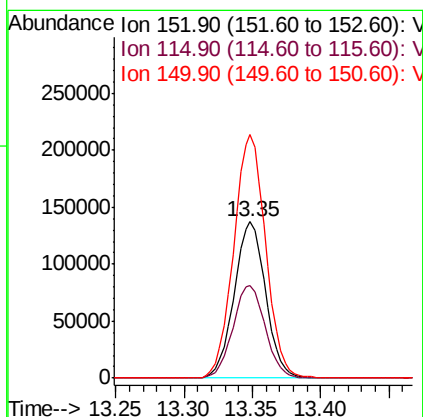
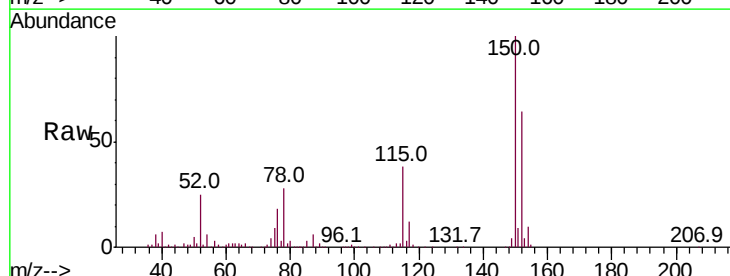
Instrument :
MSVOA_N
ClientSampleId :

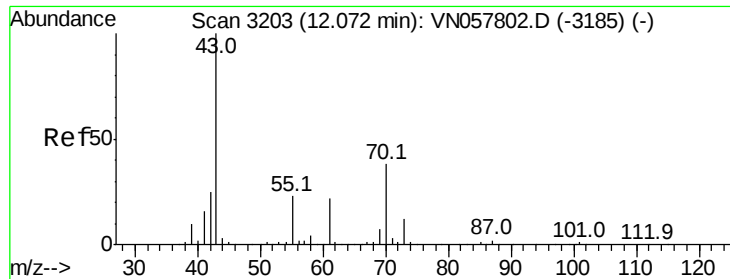
Tot Ion:117 Resp: 434578
Ion Ratio Lower Upper
117 100
82 58.1 47.2 70.8
119 32.5 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057855.D
Acq: 10 Sep 2019 12:24

Tgt Ion:152 Resp: 219680
Ion Ratio Lower Upper
152 100
115 60.6 30.3 91.0
150 157.4 0.0 352.4





#74

N-amvl acetate

Concen: 0.477 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3541

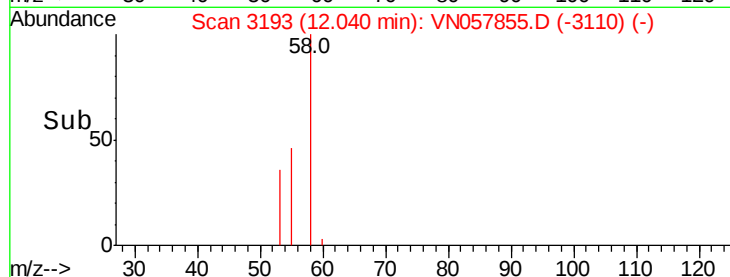
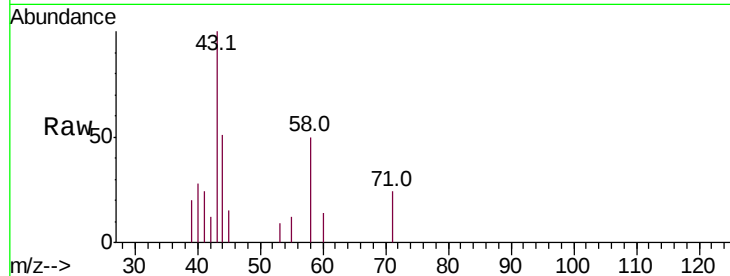
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.7 18.6 27.8#

61 0.0 17.4 26.2#

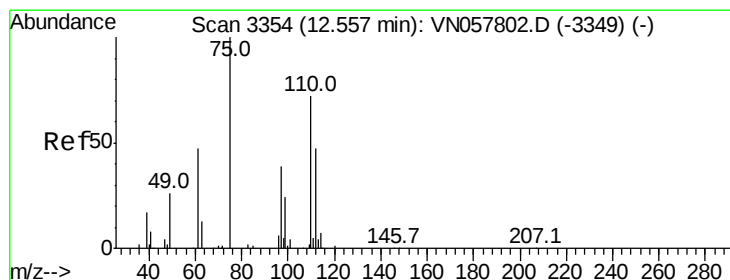
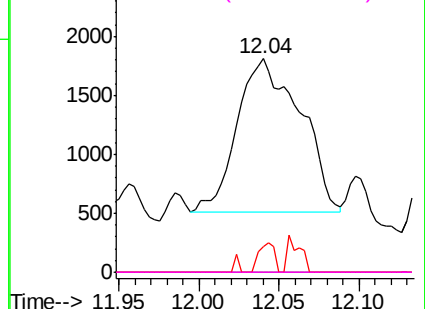


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.389 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057855.D

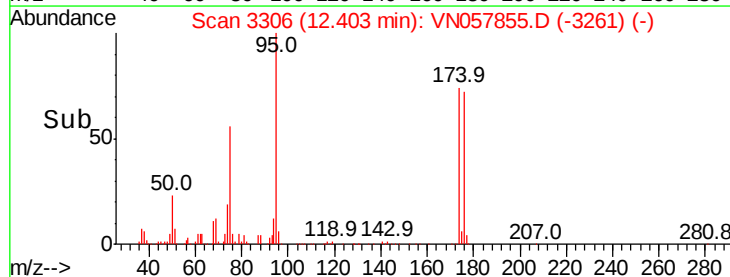
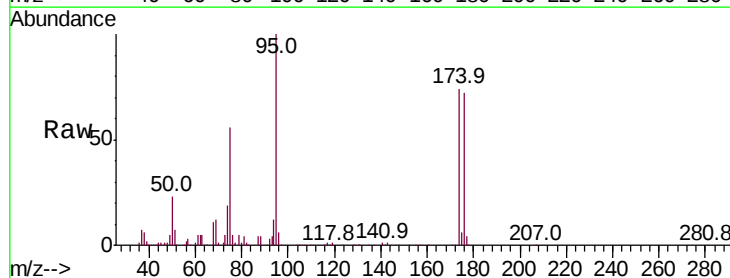
Acq: 10 Sep 2019 12:24

Tgt Ion: 75 Resp: 151017

Ion Ratio Lower Upper

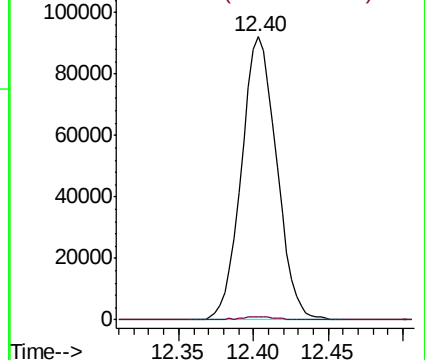
75 100

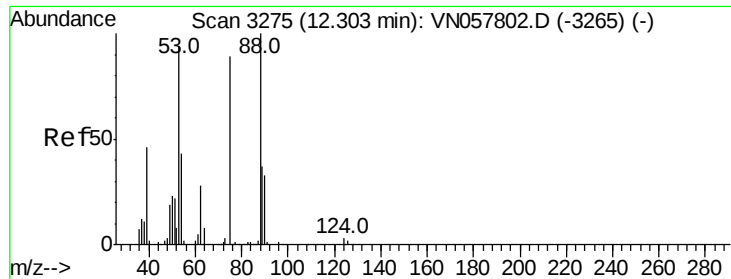
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 106.938 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

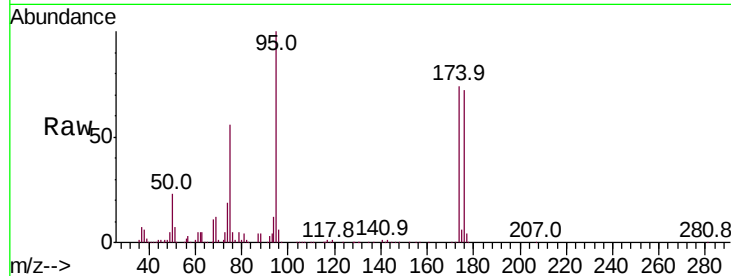
Tot Ion: 75 Resp: 151017

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

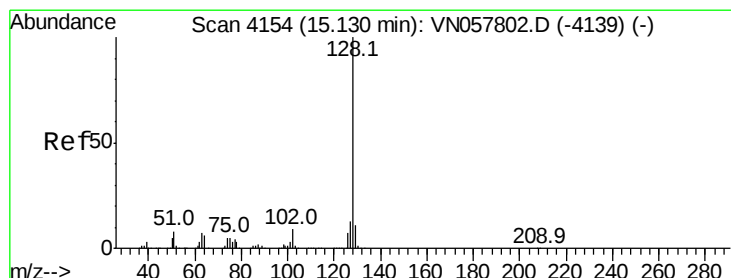
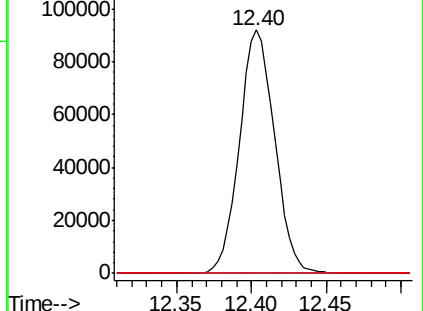
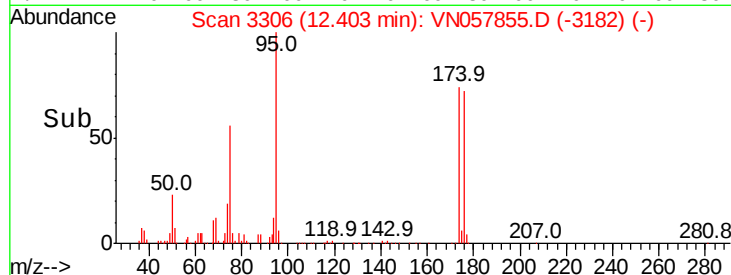
89 0.1 35.3 52.9#



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# 4155

Delta R.T. 0.00 min

Lab File: VN057855.D

Acq: 10 Sep 2019 12:24

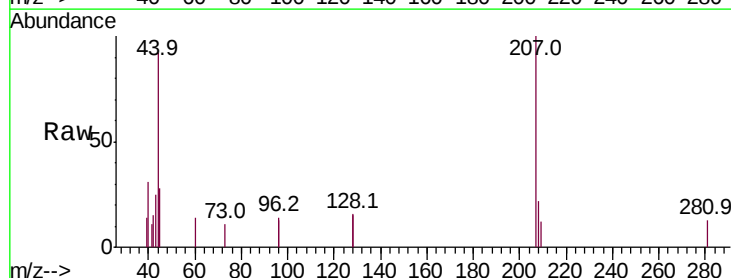
Tgt Ion: 128 Resp: 386

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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) (-)

