

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081719\
 Data File : VN057347.D
 Acq On : 16 Aug 2019 11:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Quant Time: Aug 16 15:33:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 16 13:33:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	141111	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	771347	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	640403	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	270622	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	12.40	95	244170	25.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.30%
63) Toluene-d8	10.09	98	906210	31.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	30575	4.195 ug/l	97
3) Chloromethane	2.06	50	39854	4.741 ug/l	99
4) Vinyl Chloride	2.18	62	37899	4.713 ug/l	97
5) Bromomethane	2.54	94	35242m	5.632 ug/l	
6) Chloroethane	2.70	64	27534m	4.998 ug/l	
7) Trichlorofluoromethane	3.02	101	64270	4.986 ug/l	97
8) Diethyl Ether	3.41	74	23124	4.875 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.75	101	39718	5.175 ug/l	97
10) 1,1-Dichloroethene	3.74	96	37990	4.991 ug/l	97
11) Methyl Iodide	3.95	142	59772	4.657 ug/l	100
12) Methyl Acetate	4.31	43	52494	6.134 ug/l	96
13) Acrolein	3.60	56	23083	28.525 ug/l	94
14) Acrylonitrile	4.97	53	84720	24.439 ug/l	98
15) Acetone	3.81	58	27650	27.068 ug/l	93
16) Carbon Disulfide	4.05	76	102218	4.913 ug/l	99
17) Allyl chloride	4.32	41	58585	5.270 ug/l	93
18) Methylene Chloride	4.54	84	44751	5.137 ug/l	93
19) trans-1,2-Dichloroethene	5.03	96	44009	5.339 ug/l	96
20) Diisopropyl ether	5.93	45	120920	5.223 ug/l	94
21) 1,1-Dichloroethane	5.84	63	73035	5.106 ug/l	98
22) cis-1,2-Dichloroethene	6.82	96	49836	5.218 ug/l	96
23) tert-Butyl Alcohol	4.76	59	30245	24.482 ug/l	# 100
24) Methyl tert-Butyl Ether	5.03	73	117615	5.035 ug/l	97
25) Chloroform	7.36	83	78820	5.272 ug/l	94
26) Cyclohexane	7.65	56	59711	5.022 ug/l	# 95
29) 1,1-Dichloropropene	7.78	75	57383	5.114 ug/l	97
30) 2-Butanone	6.82	43	113058	25.539 ug/l	# 97
31) 2,2-Dichloropropane	6.82	77	62951m	5.121 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	65823	4.962 ug/l	97
33) Carbon Tetrachloride	7.76	117	58188	4.926 ug/l	98
34) Benzene	8.03	78	176977	5.199 ug/l	# 73
35) Methacrylonitrile	7.18	41	28146m	4.654 ug/l	
36) 1,2-Dichloroethane	8.12	62	58785	5.314 ug/l	99
37) Trichloroethene	8.83	130	52241	5.272 ug/l	96
38) Methylcyclohexane	9.07	83	66856	5.031 ug/l	97
39) 1,2-Dichloropropane	9.11	63	44011	5.059 ug/l	95
40) Dibromomethane	9.20	93	29884	5.163 ug/l	96

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 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Quant Time: Aug 16 15:33:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 16 13:33:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	58767	5.011	ug/l	98
42) Vinyl Acetate	5.88	43	453464	24.344	ug/l	98
43) Ethyl Acetate	6.91	43	46982	5.173	ug/l	97
44) Isopropyl Acetate	8.16	43	81490m	5.091	ug/l	
45) 1,4-Dioxane	9.19	88	14532	96.453	ug/l #	89
46) Methyl methacrylate	9.19	41	33367	4.656	ug/l	92
47) n-amyl Acetate	12.07	43	50501	4.276	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	60190	4.744	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	68035	4.816	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	43817	5.187	ug/l	97
51) Ethyl methacrylate	10.43	69	55585	4.540	ug/l	94
52) 1,3-Dichloropropane	10.70	76	69580	5.044	ug/l	99
53) Dibromochloromethane	10.90	129	45893	4.723	ug/l	100
54) 1,2-Dibromoethane	11.00	107	43214	4.858	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	54622	19.164	ug/l	96
56) Bromoform	12.13	173	32311	4.403	ug/l #	94
58) 4-Methyl-2-Pentanone	9.98	43	215556	25.839	ug/l	97
59) 2-Hexanone	10.75	43	151412	25.305	ug/l	97
61) Tetrachloroethene	10.63	164	53941	5.747	ug/l	92
62) Toluene	10.15	91	190399	5.390	ug/l	98
64) Chlorobenzene	11.43	112	115427	5.202	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	45846	5.315	ug/l	97
66) Ethyl Benzene	11.51	91	196533	5.093	ug/l	99
67) m/p-Xylenes	11.62	106	140526	9.729	ug/l	98
68) o-Xylene	11.95	106	70122	4.966	ug/l	94
69) Styrene	11.96	104	98310	4.334	ug/l	98
70) Isopropylbenzene	12.25	105	184994	4.887	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	53373	5.147	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	44356m	5.069	ug/l	
73) Bromobenzene	12.53	156	47426	4.728	ug/l	90
74) n-propylbenzene	12.59	91	173094	4.402	ug/l	95
75) 2-Chlorotoluene	12.67	91	111823	4.583	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	145520	4.622	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	14319	4.264	ug/l	91
78) 4-Chlorotoluene	12.77	91	98621	4.320	ug/l	99
79) tert-butylbenzene	12.99	119	137396	4.897	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	131602	4.431	ug/l	98
81) sec-Butylbenzene	13.17	105	159736	4.619	ug/l	97
82) p-Isopropyltoluene	13.29	119	141956	4.582	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	59032	4.017	ug/l	95
84) 1,4-Dichlorobenzene	13.36	146	54557	3.978	ug/l	99
85) n-Butylbenzene	13.62	91	90044	3.908	ug/l	99
86) Hexachloroethane	13.88	117	29187	4.894	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	56971	4.104	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	5449	3.920	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	13261	2.700	ug/l	100
90) Hexachlorobutadiene	15.01	225	32662	5.211	ug/l	99
91) Naphthalene	15.13	128	28022	2.640	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	13401	2.878	ug/l	98

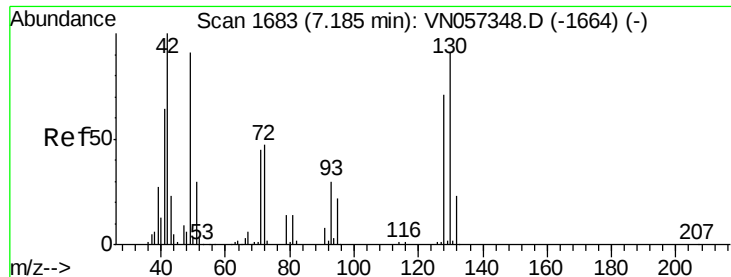
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081719\
Data File : VN057347.D
Acq On : 16 Aug 2019 11:29
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Aug 16 15:33:56 2019
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 16 13:33:03 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

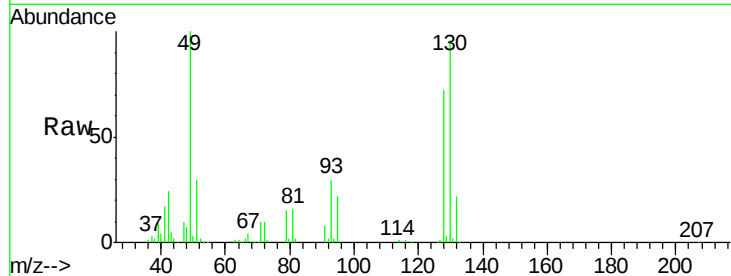
Tot Ion:128 Resp: 141111

Ion Ratio Lower Upper

128 100

49 133.5 0.0 390.5

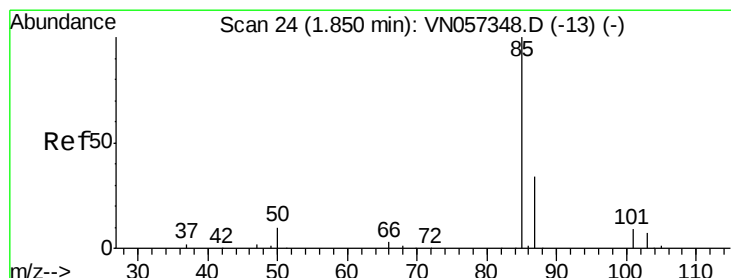
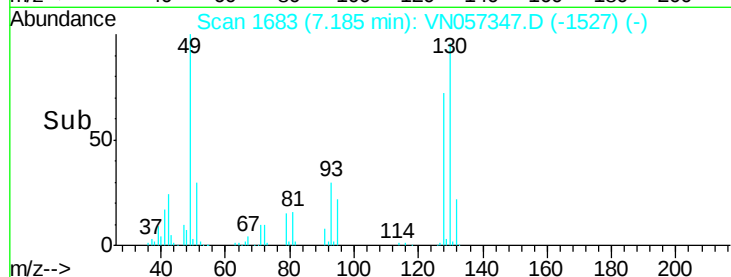
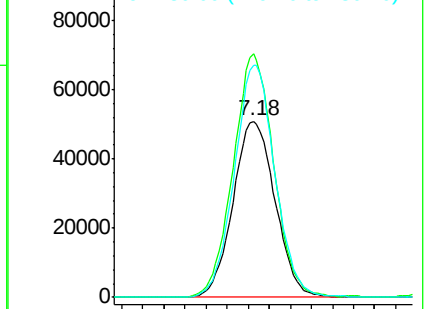
130 127.3 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 4.195 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057347.D

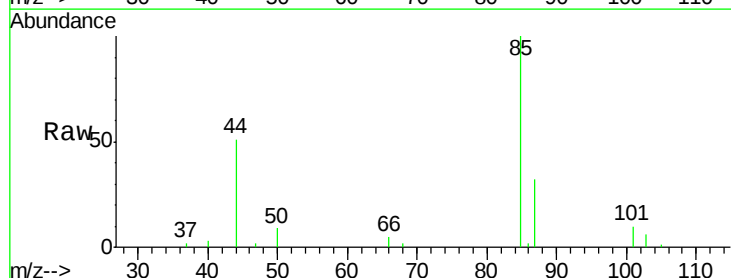
Acq: 16 Aug 2019 11:29

Tgt Ion: 85 Resp: 30575

Ion Ratio Lower Upper

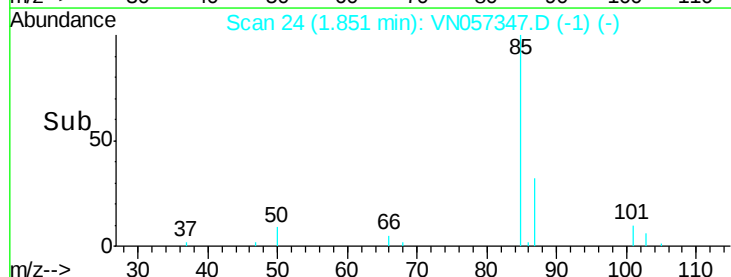
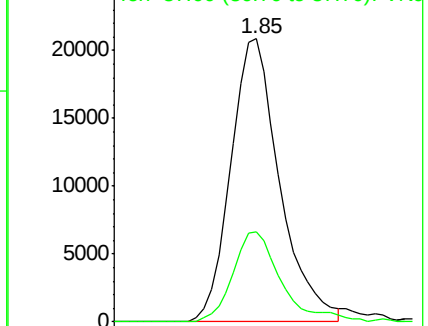
85 100

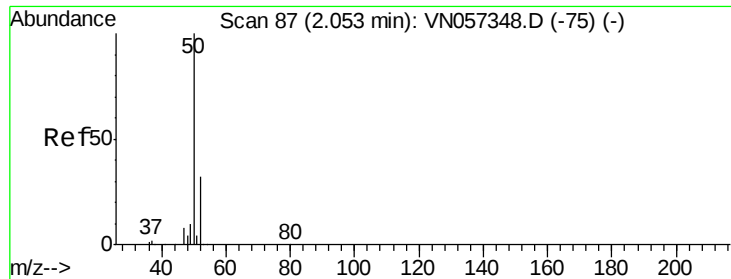
87 32.0 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 4.741 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

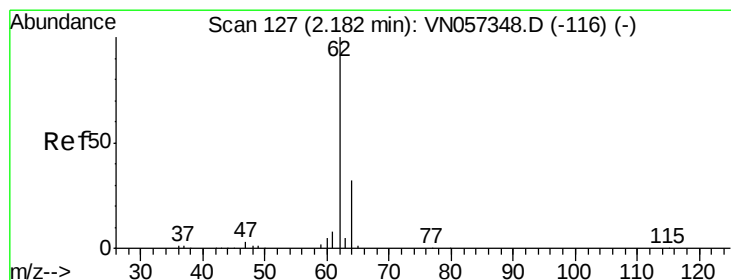
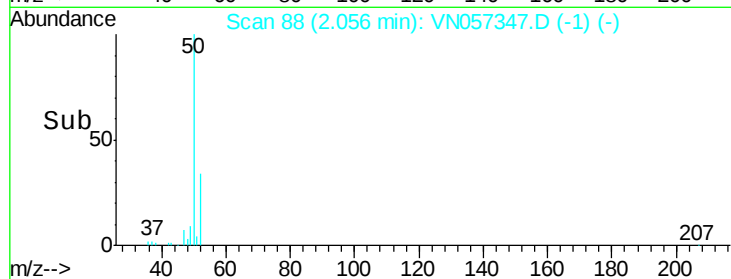
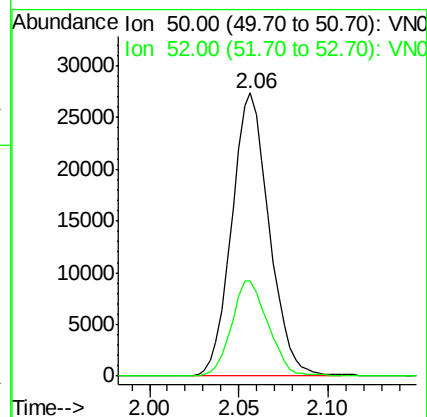
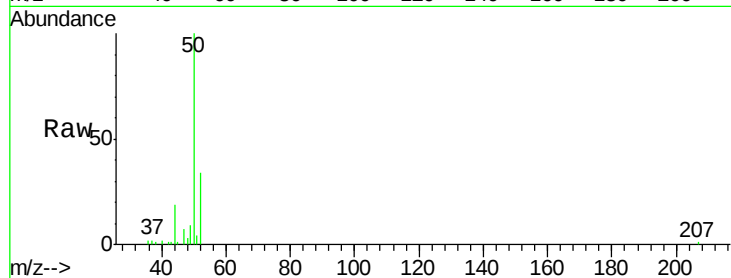
VSTDIC005

Tot Ion: 50 Resp: 39854

Ion Ratio Lower Upper

50 100

52 33.8 26.5 39.7



#4

Vinyl Chloride

Concen: 4.713 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057347.D

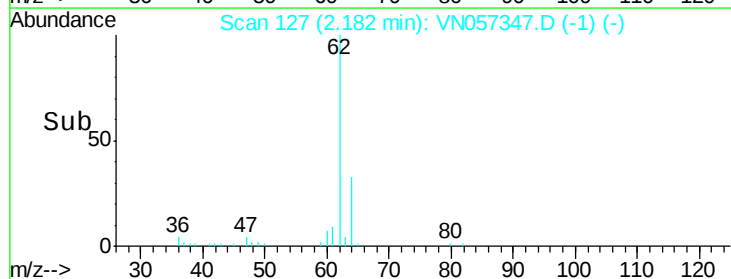
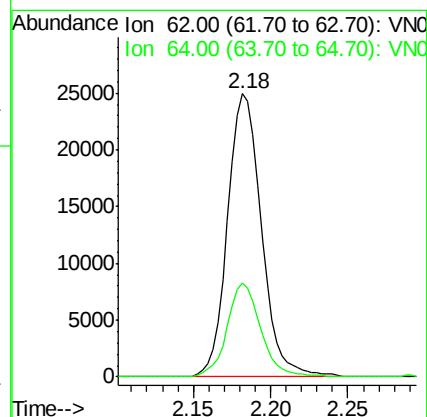
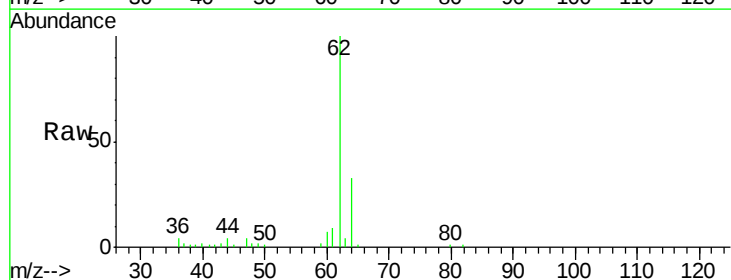
Acq: 16 Aug 2019 11:29

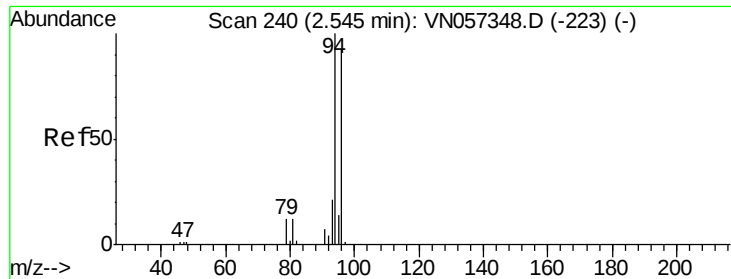
Tgt Ion: 62 Resp: 37899

Ion Ratio Lower Upper

62 100

64 33.1 25.0 37.4





#5

Bromomethane

Concen: 5.632 ug/l m

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

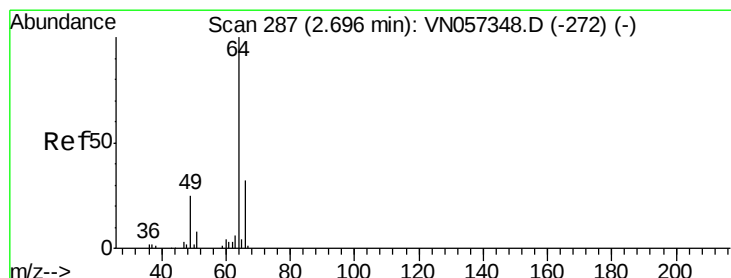
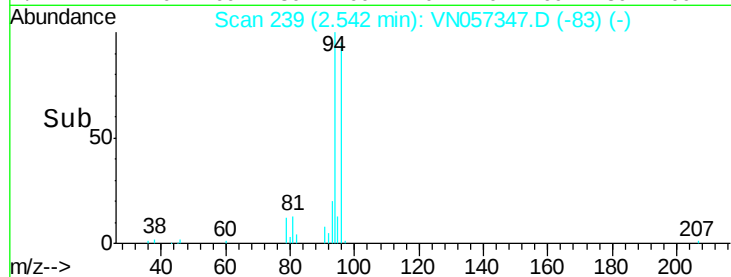
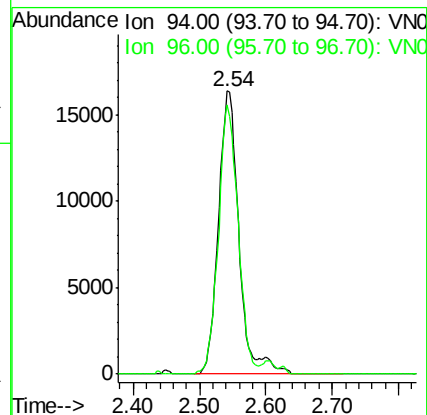
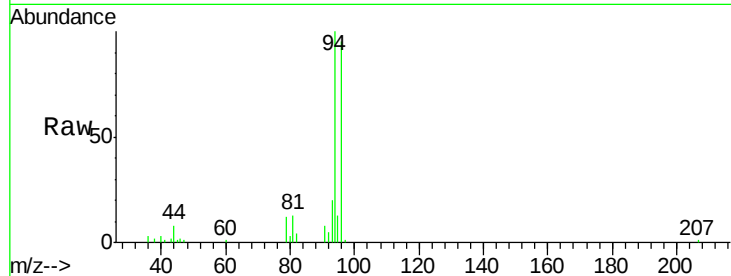
VSTDIC005

Tot Ion: 94 Resp: 35242

Ion Ratio Lower Upper

94 100

96 95.0 72.8 109.2



#6

Chloroethane

Concen: 4.998 ug/l m

RT: 2.70 min Scan# 287

Delta R.T. 0.00 min

Lab File: VN057347.D

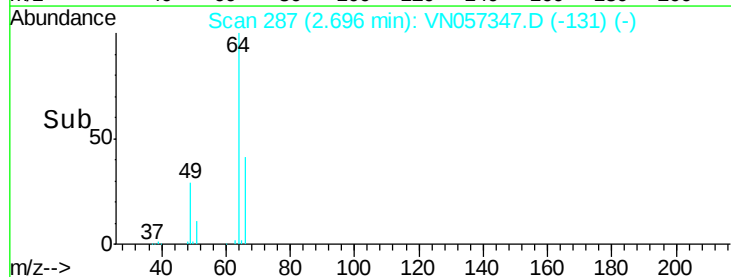
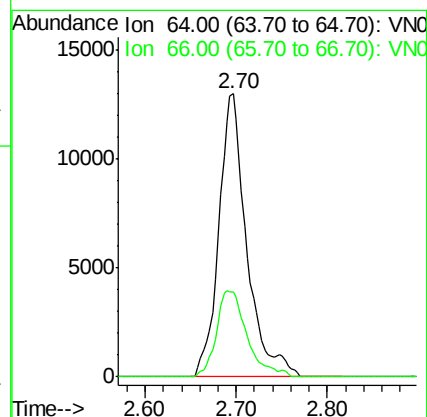
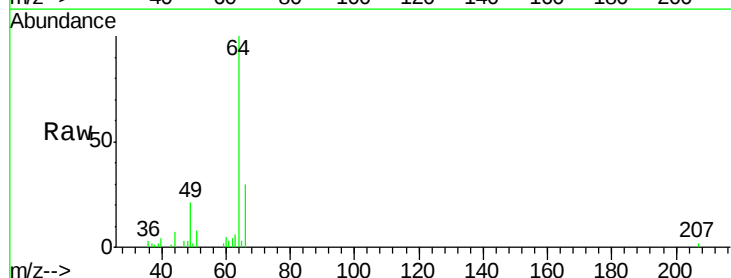
Acq: 16 Aug 2019 11:29

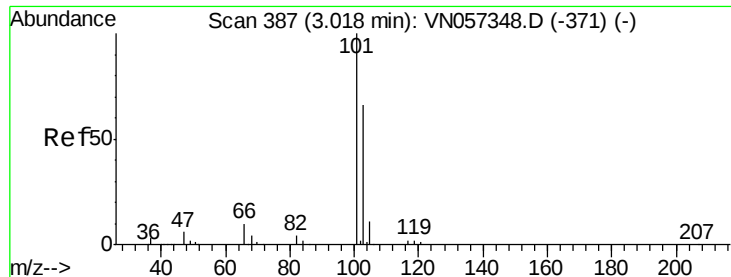
Tgt Ion: 64 Resp: 27534

Ion Ratio Lower Upper

64 100

66 29.8 25.7 38.5



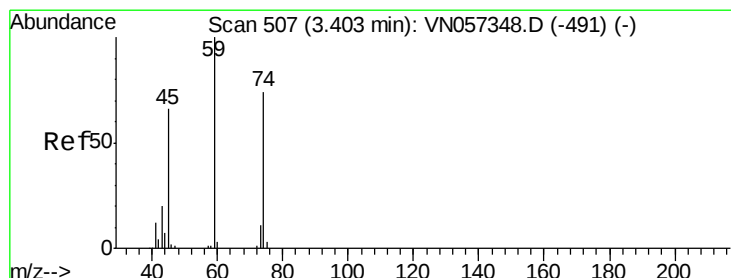
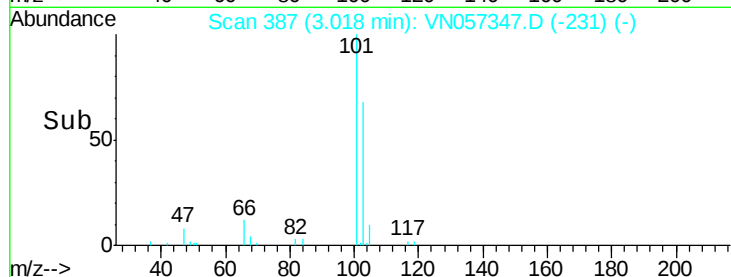
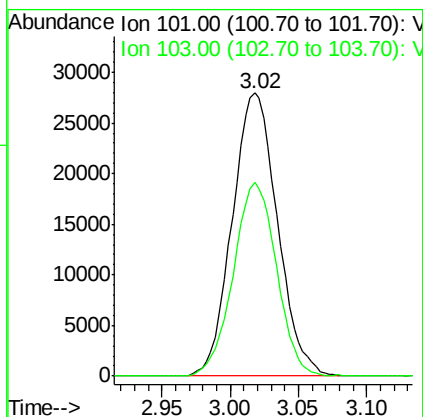
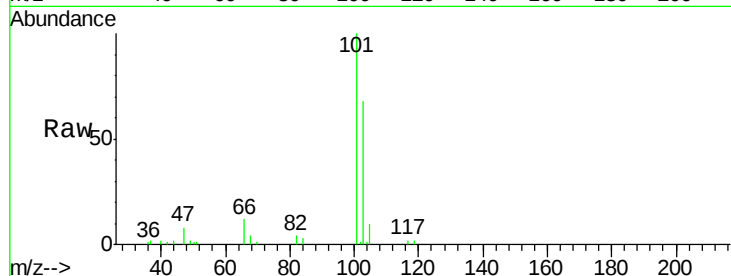


#7

Trichlorofluoromethane
 Concen: 4.986 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

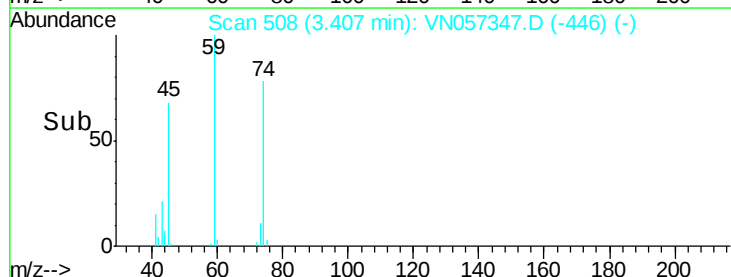
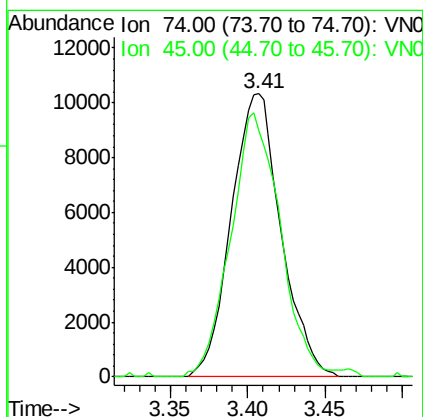
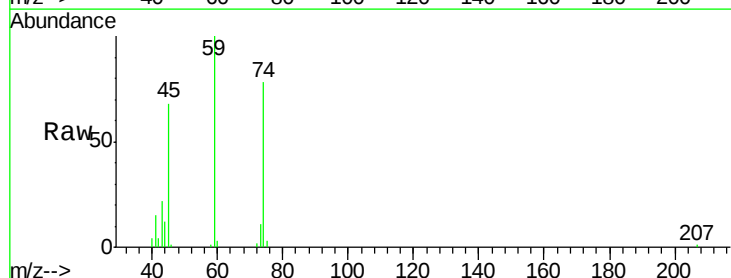
Tot Ion:101 Resp: 64270
 Ion Ratio Lower Upper
 101 100
 103 68.3 52.8 79.2

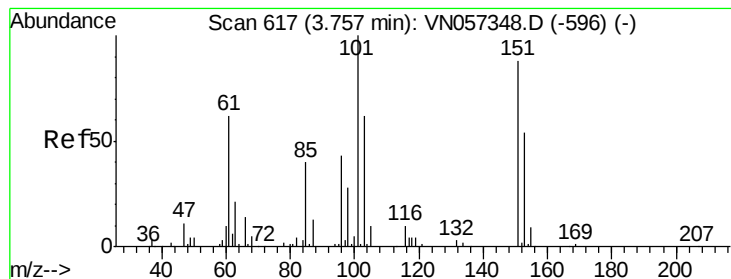


#8

Diethyl Ether
 Concen: 4.875 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion: 74 Resp: 23124
 Ion Ratio Lower Upper
 74 100
 45 92.9 19.9 179.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.175 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

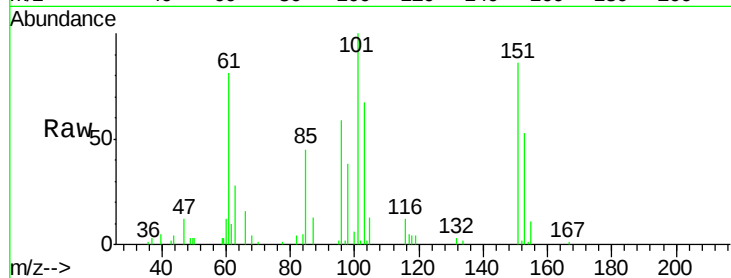
Tot Ion:101 Resp: 39718

Ion Ratio Lower Upper

101 100

85 41.3 0.0 84.2

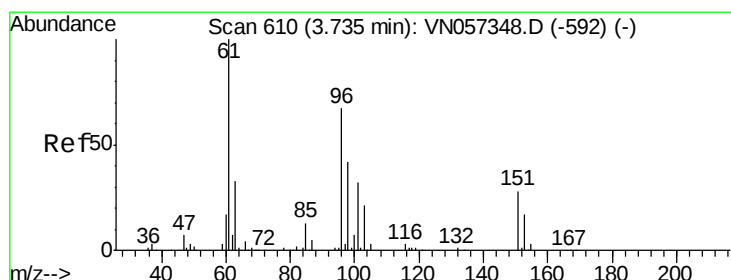
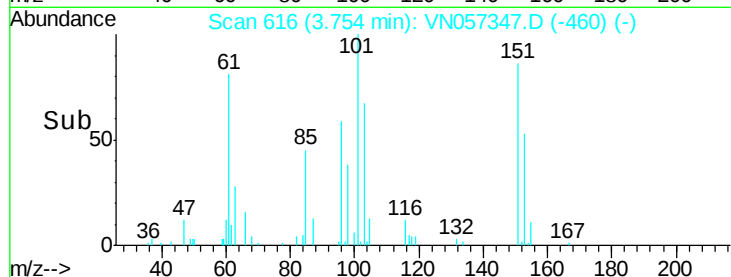
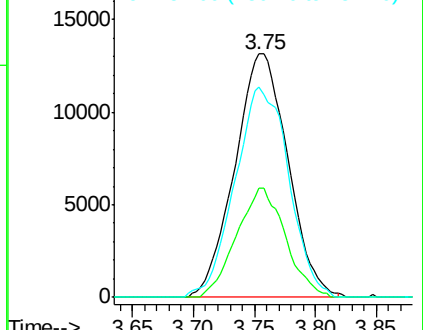
151 87.6 0.0 167.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 4.991 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

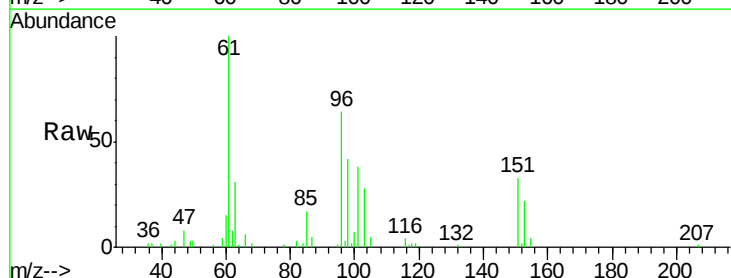
Tgt Ion: 96 Resp: 37990

Ion Ratio Lower Upper

96 100

61 156.2 129.0 193.4

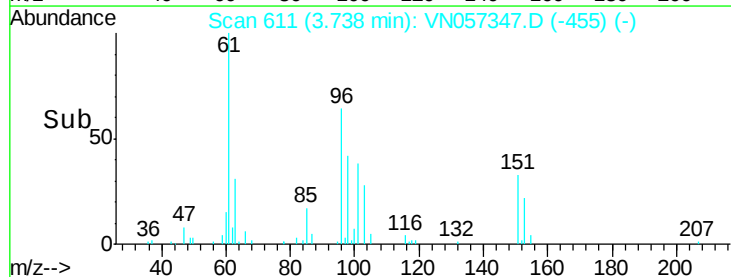
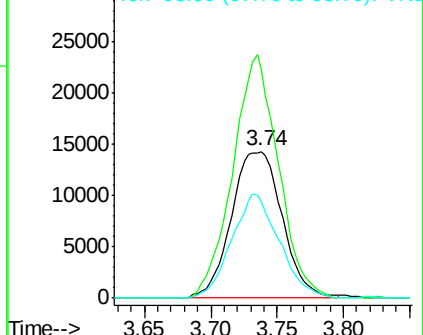
98 65.6 52.5 78.7

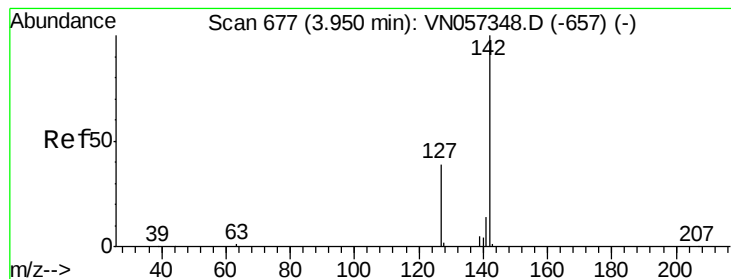


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#11

Methyl Iodide

Concen: 4.657 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

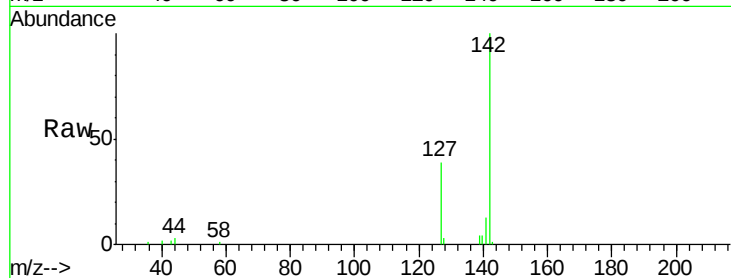
Tot Ion:142 Resp: 59772

Ion Ratio Lower Upper

142 100

127 38.7 19.5 58.5

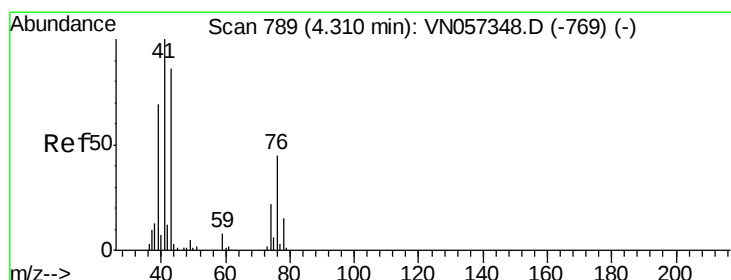
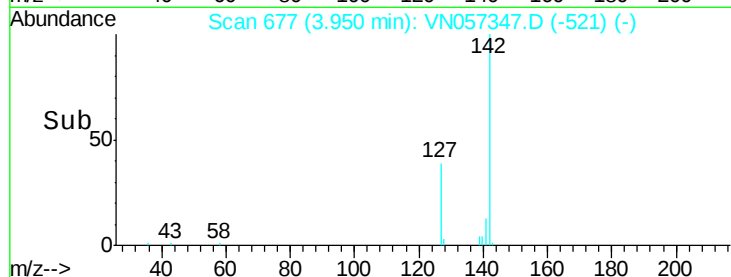
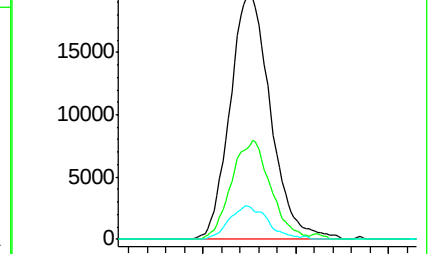
141 13.3 6.8 20.3



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#12

Methyl Acetate

Concen: 6.134 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN057347.D

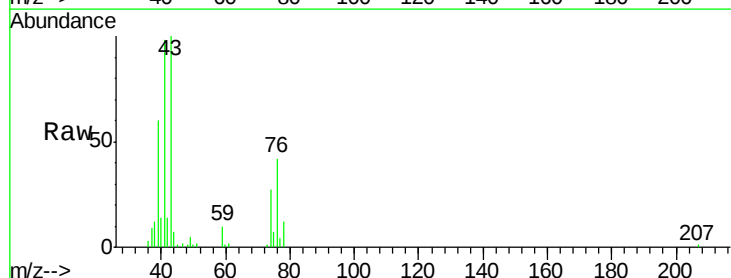
Acq: 16 Aug 2019 11:29

Tgt Ion: 43 Resp: 52494

Ion Ratio Lower Upper

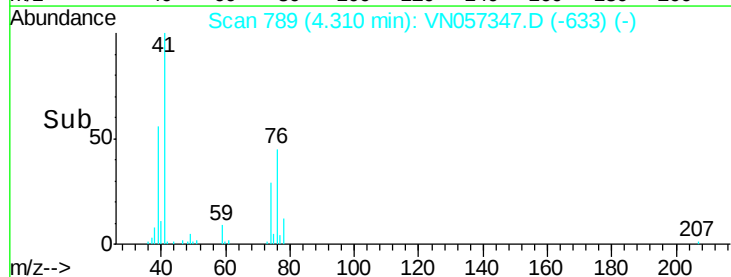
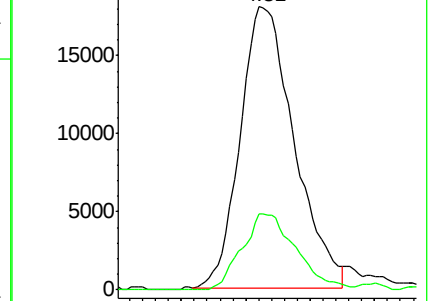
43 100

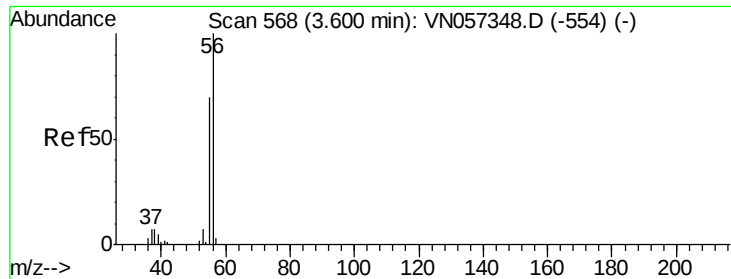
74 27.2 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 28.525 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

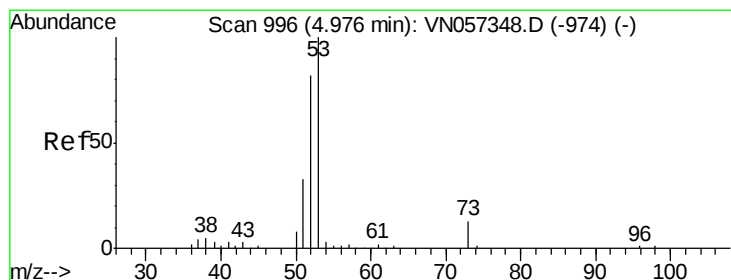
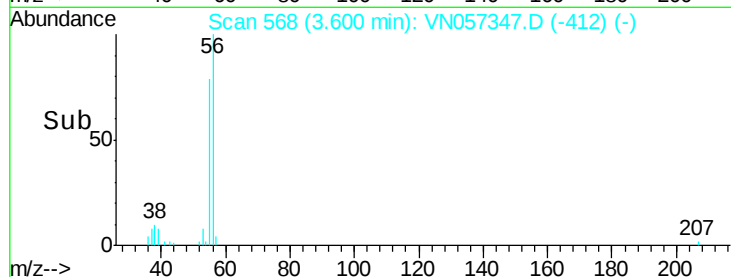
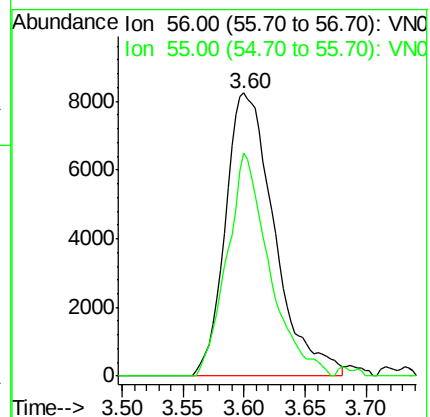
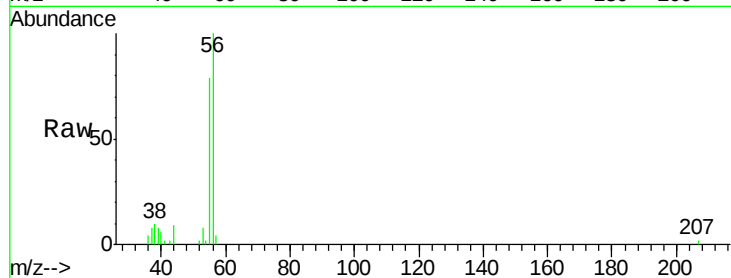
VSTDIC005

Tot Ion: 56 Resp: 23083

Ion Ratio Lower Upper

56 100

55 66.4 56.9 85.3



#14

Acrylonitrile

Concen: 24.439 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

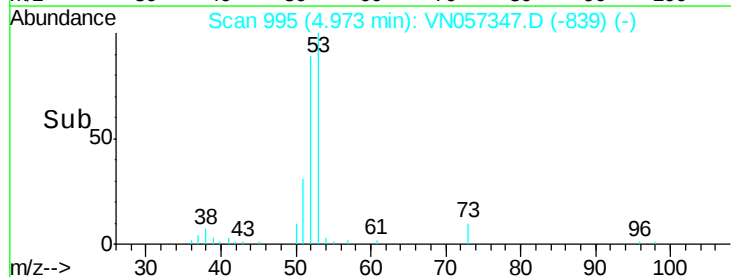
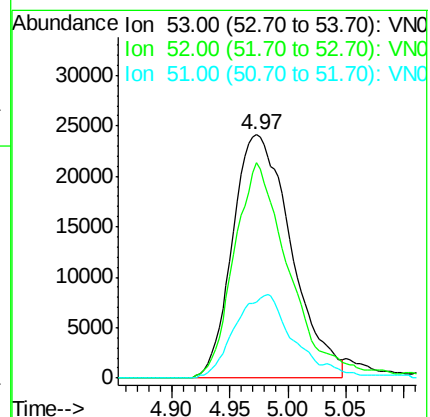
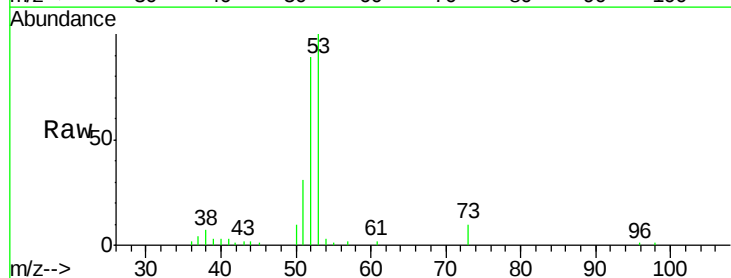
Tgt Ion: 53 Resp: 84720

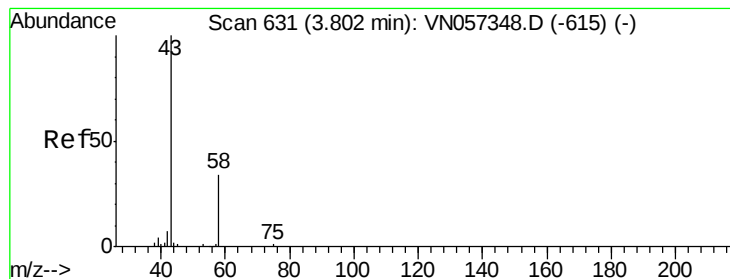
Ion Ratio Lower Upper

53 100

52 82.9 41.3 123.7

51 32.9 17.7 53.1





#15

Acetone

Concen: 27.068 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

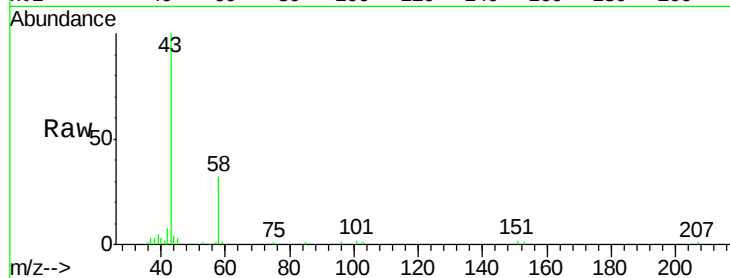
VSTDIC005

Tot Ion: 58 Resp: 27650

Ion Ratio Lower Upper

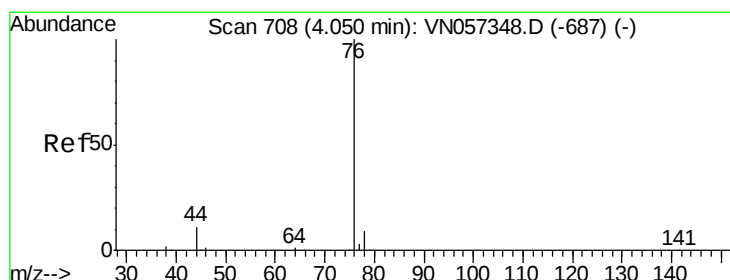
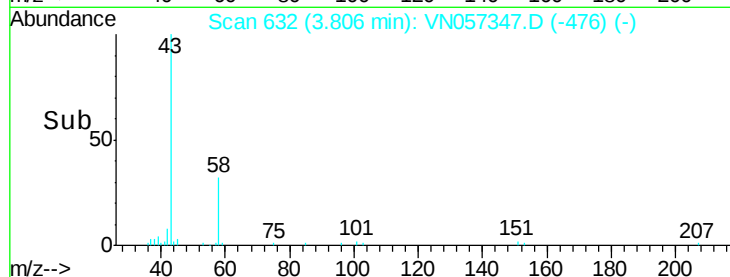
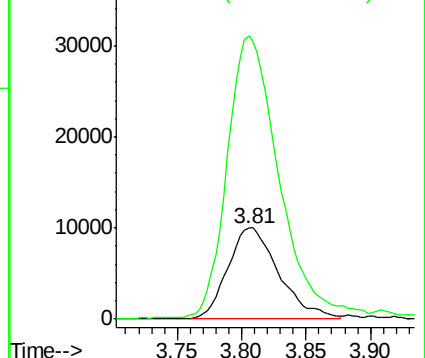
58 100

43 306.1 233.9 350.9



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 4.913 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN057347.D

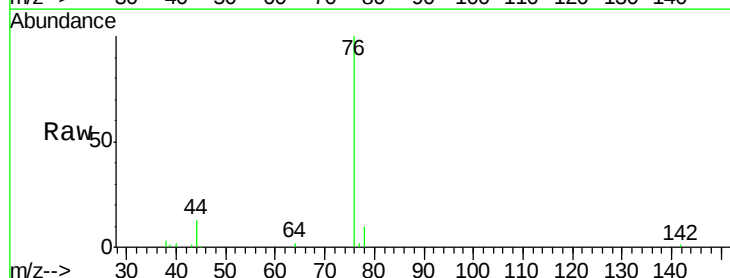
Acq: 16 Aug 2019 11:29

Tgt Ion: 76 Resp: 102218

Ion Ratio Lower Upper

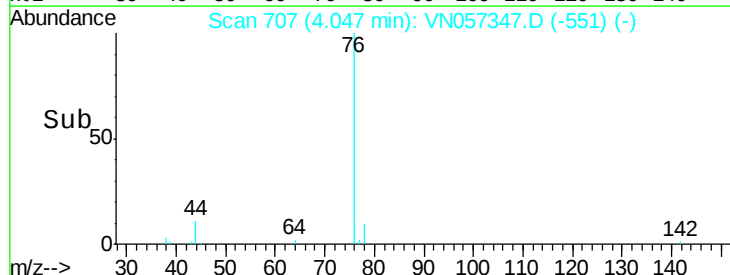
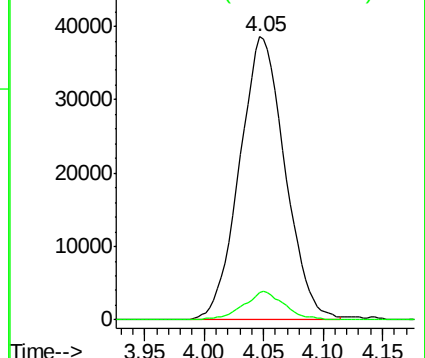
76 100

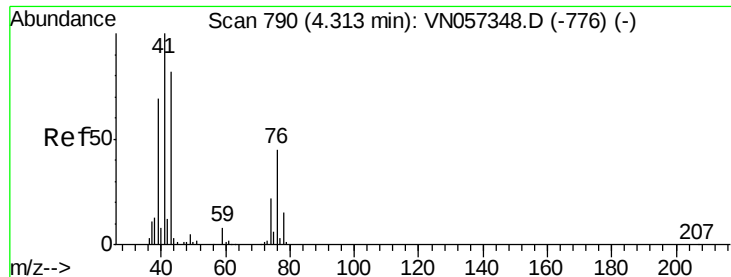
78 9.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

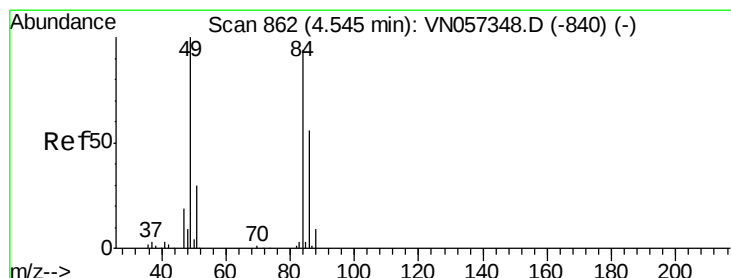
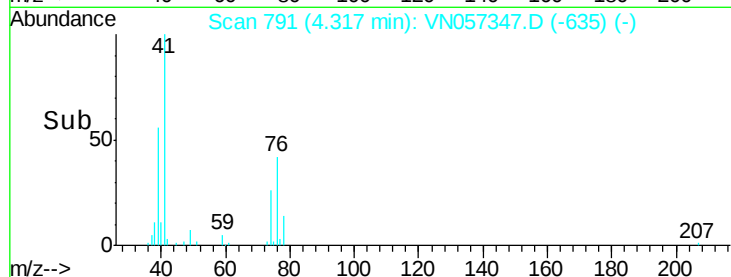
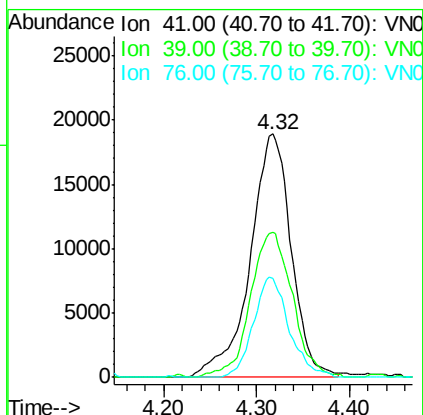
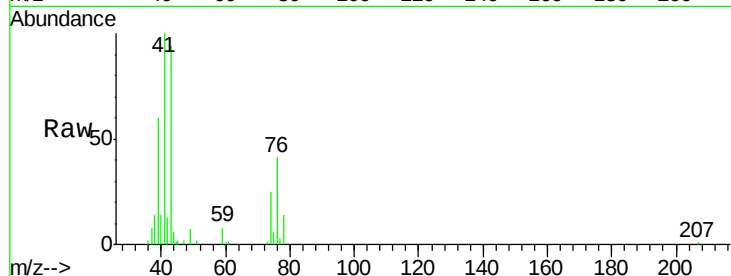




#17
Allvl chloride
Concen: 5.270 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

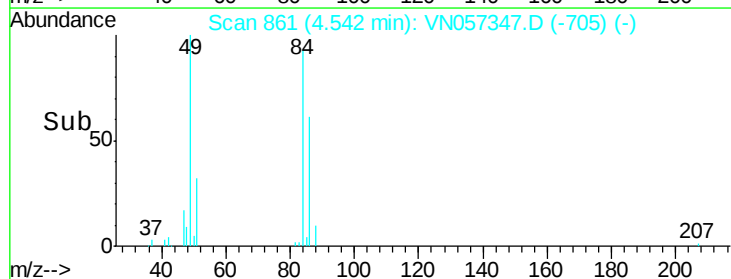
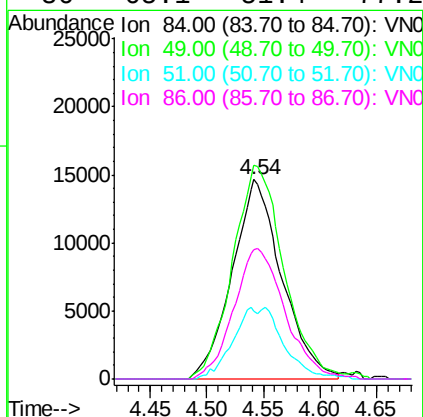
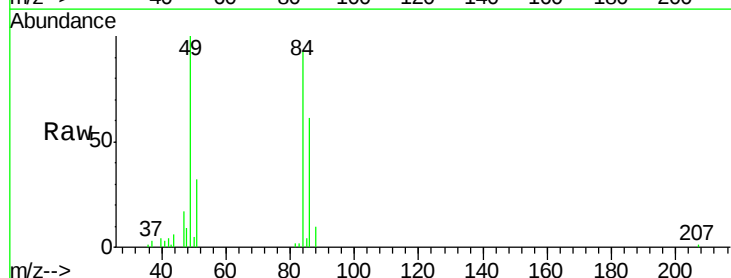
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

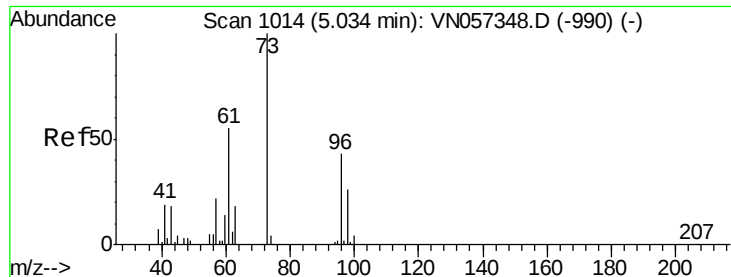
Tot Ion	Ratio	Lower	Upper
41	100		
39	59.7	32.8	98.4
76	40.7	18.5	55.5



#18
Methylene Chloride
Concen: 5.137 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion	Ratio	Lower	Upper
84	100		
49	107.2	93.9	140.9
51	34.2	31.7	47.5
86	65.1	51.4	77.2

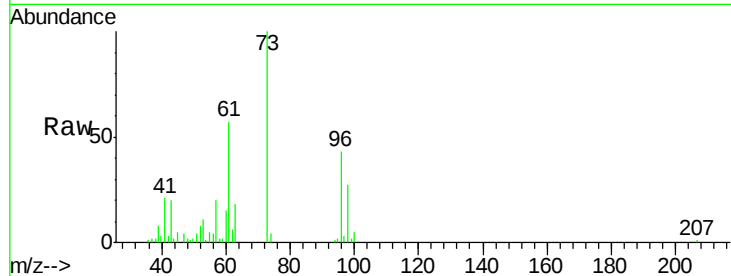




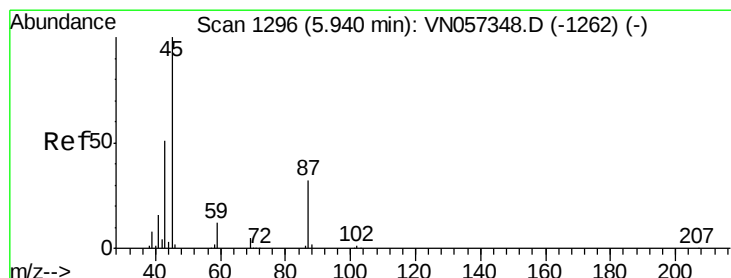
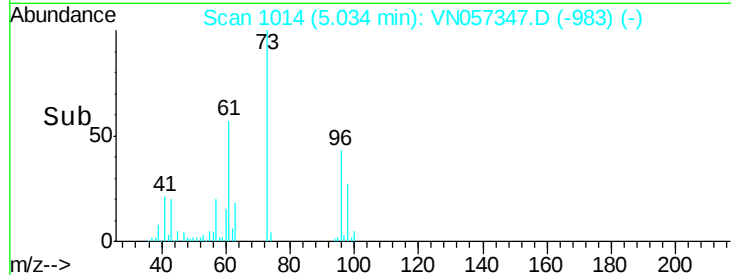
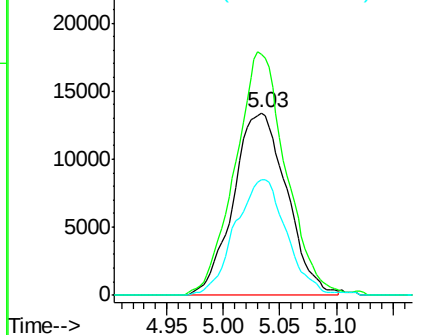
#19
trans-1,2-Dichloroethene
Concen: 5.339 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 96 Resp: 44009
Ion Ratio Lower Upper
96 100
61 130.8 109.6 164.4
98 63.4 51.4 77.2

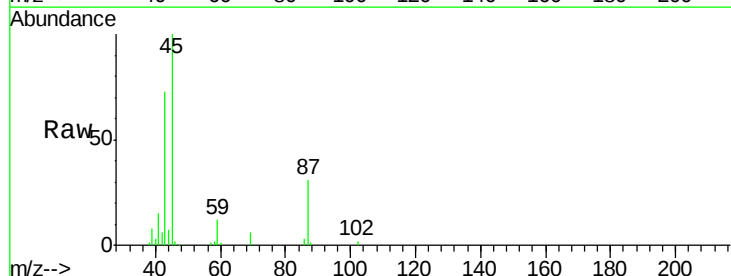


Abundance Ion 96.00 (95.70 to 96.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 98.00 (97.70 to 98.70): VNC

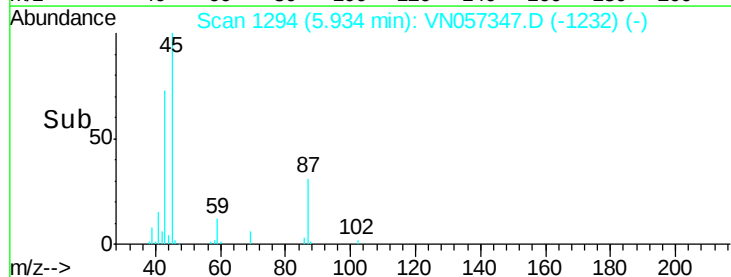
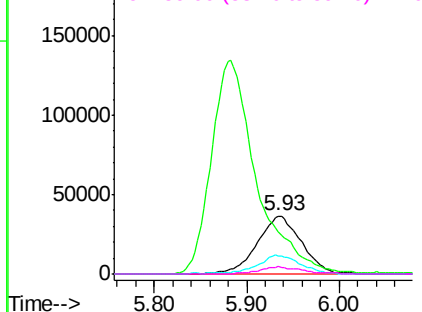


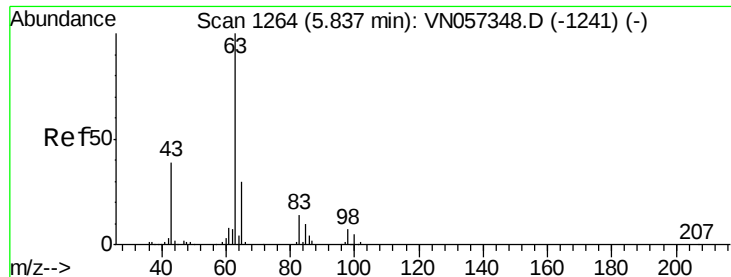
#20
Diisopropyl ether
Concen: 5.223 ug/l
RT: 5.93 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 45 Resp: 120920
Ion Ratio Lower Upper
45 100
43 68.3 50.3 75.5
87 30.3 21.4 32.0
59 12.2 9.7 14.5



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC

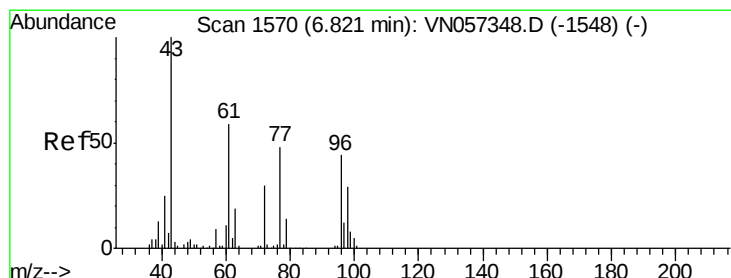
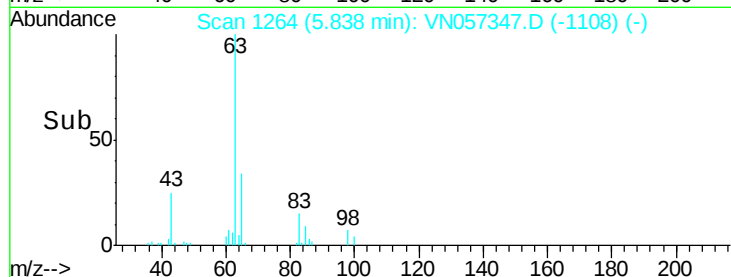
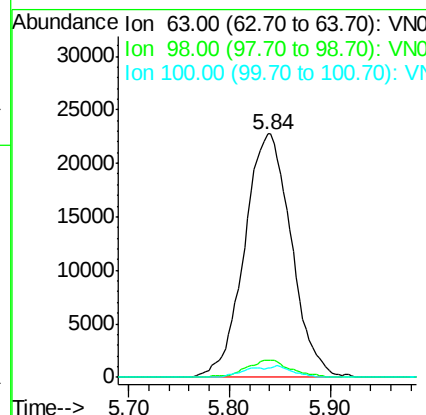
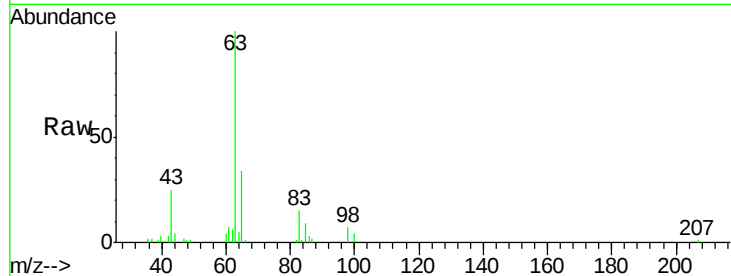




#21
 1,1-Dichloroethane
 Concen: 5.106 ug/l
 RT: 5.84 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

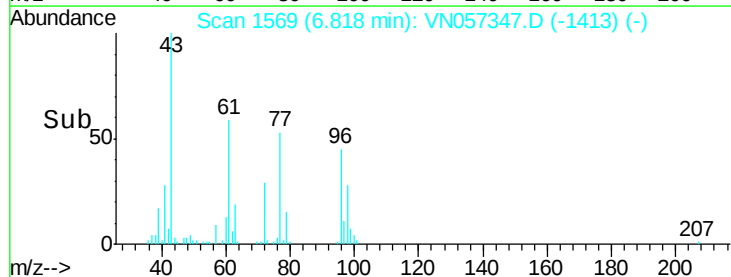
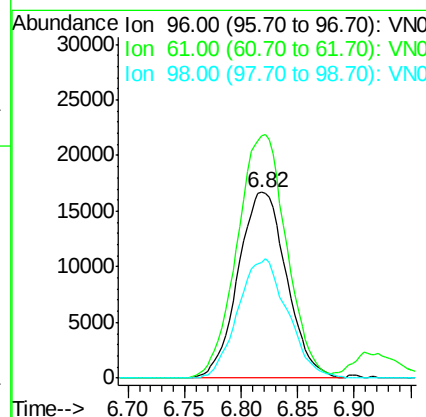
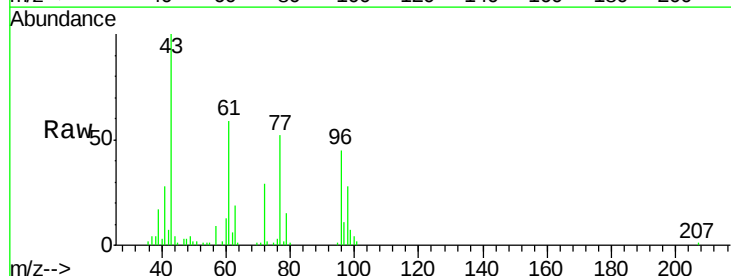
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

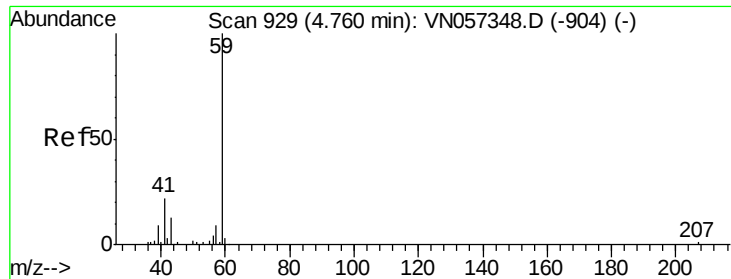
Tot Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.3	9.8
100	3.6	2.1	6.3



#22
 cis-1,2-Dichloroethene
 Concen: 5.218 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.4	112.1	168.1
98	65.4	52.2	78.2





#23

tert-Butyl Alcohol

Concen: 24.482 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

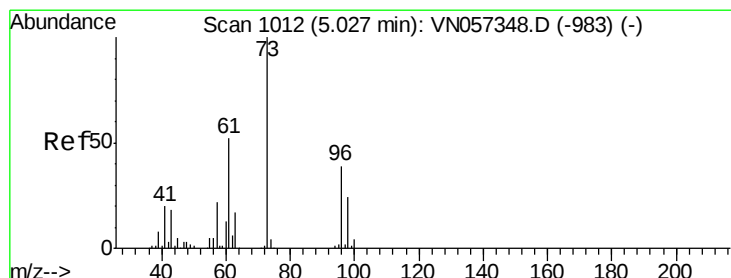
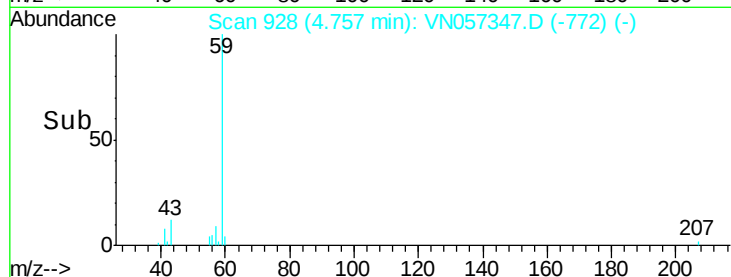
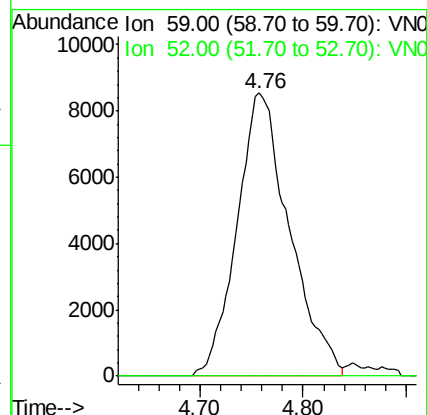
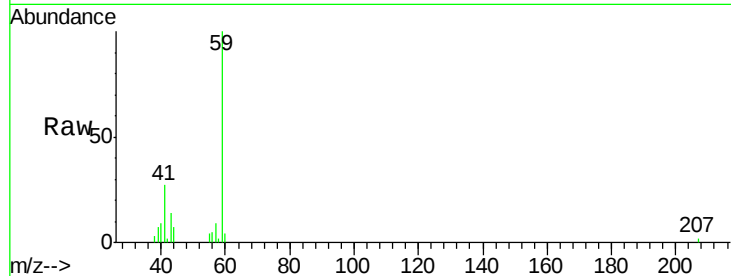
VSTDIC005

Tot Ion: 59 Resp: 30245

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#24

Methyl tert-Butyl Ether

Concen: 5.035 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VN057347.D

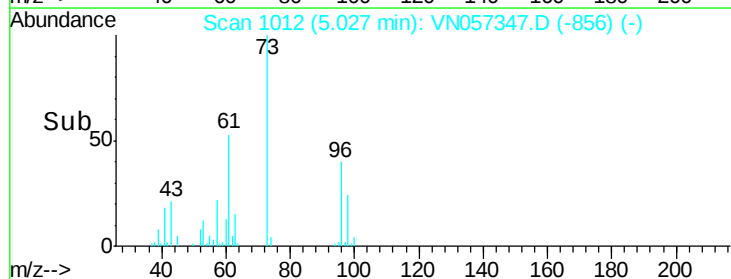
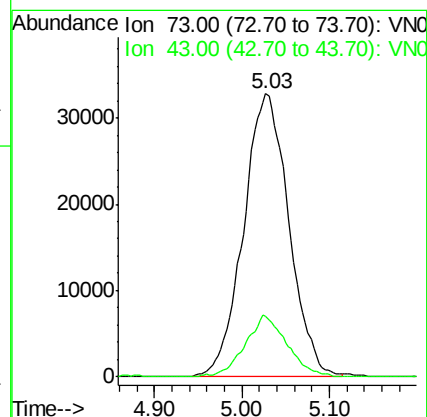
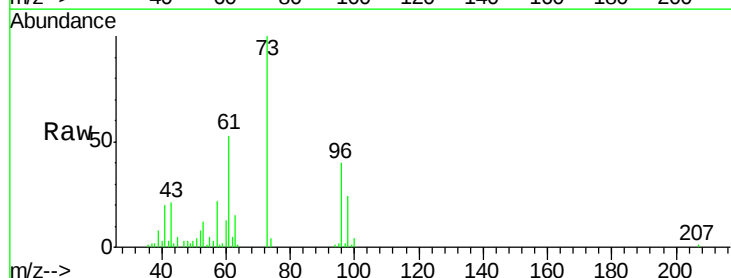
Acq: 16 Aug 2019 11:29

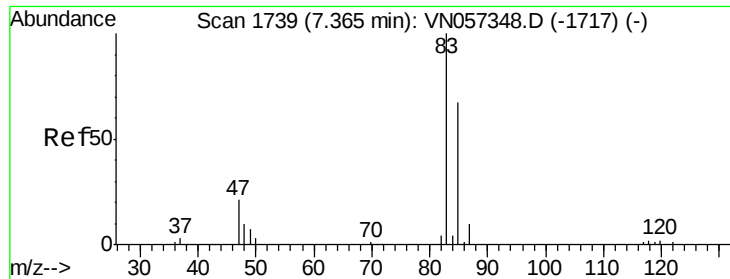
Tgt Ion: 73 Resp: 117615

Ion Ratio Lower Upper

73 100

43 20.1 15.1 22.7

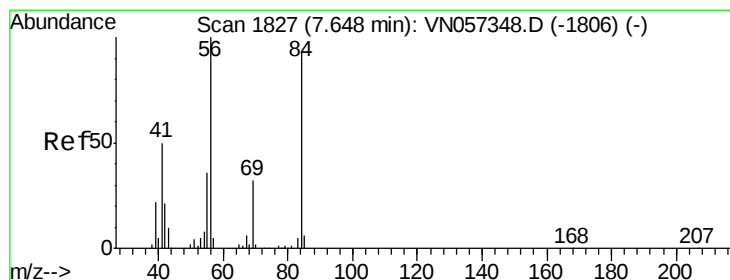
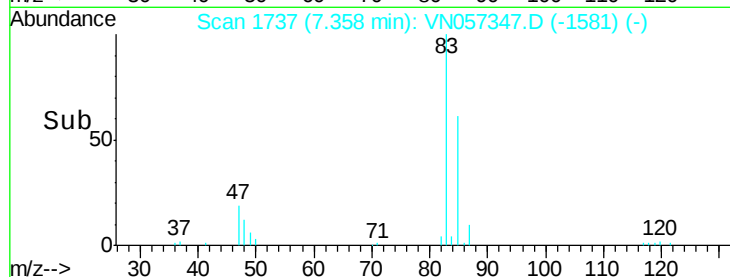
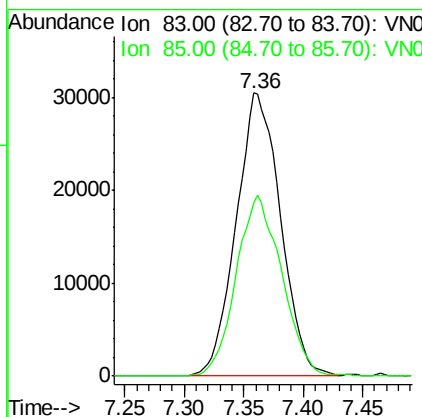
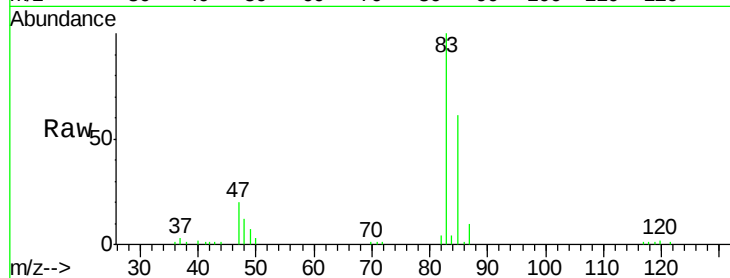




#25
Chloroform
Concen: 5.272 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

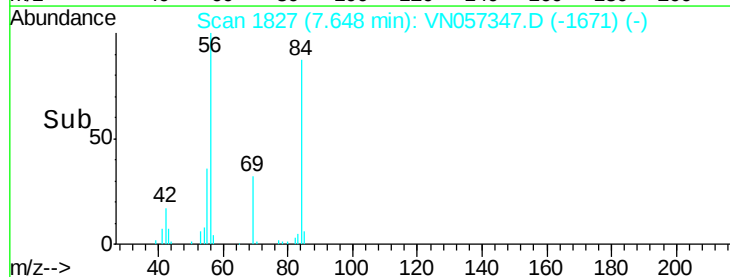
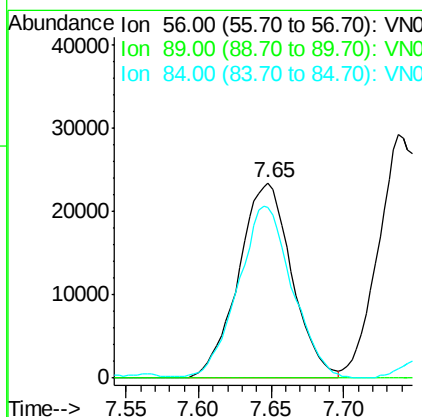
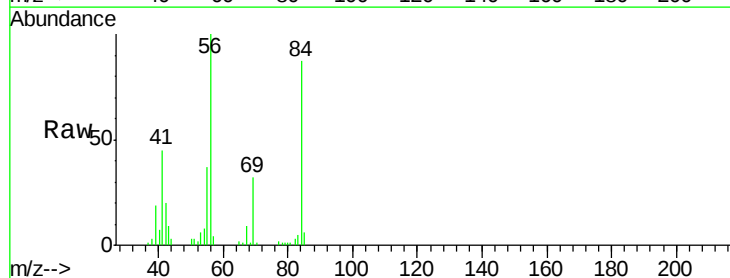
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

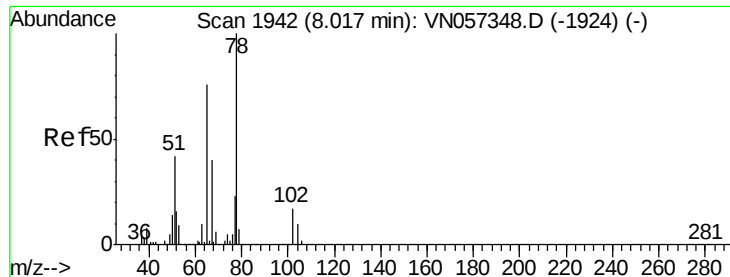
Tot Ion: 83 Resp: 78820
Ion Ratio Lower Upper
83 100
85 61.4 52.6 79.0



#26
Cyclohexane
Concen: 5.022 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 56 Resp: 59711
Ion Ratio Lower Upper
56 100
89 0.0 1.4 2.2#
84 89.9 68.2 102.4





#27

1,2-Dichloroethane-d4

Concen: 29.830 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

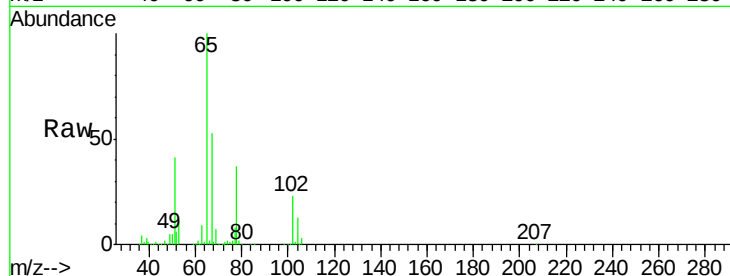
VSTDIC005

Tot Ion: 65 Resp: 270622

Ion Ratio Lower Upper

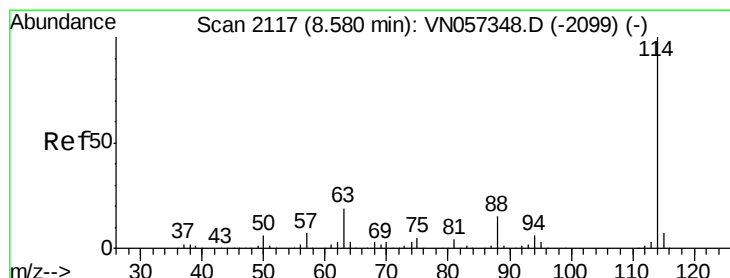
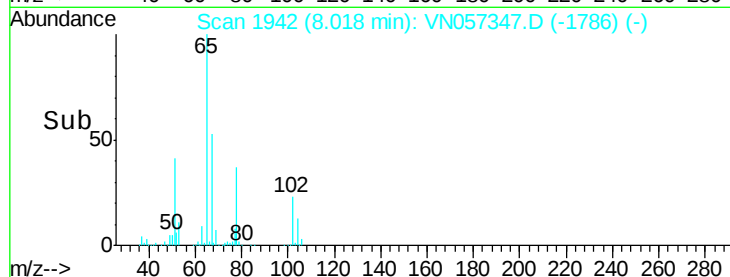
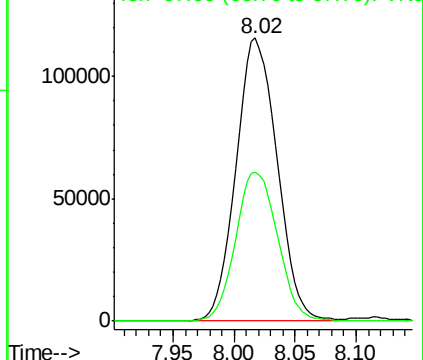
65 100

67 53.7 43.4 65.0



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

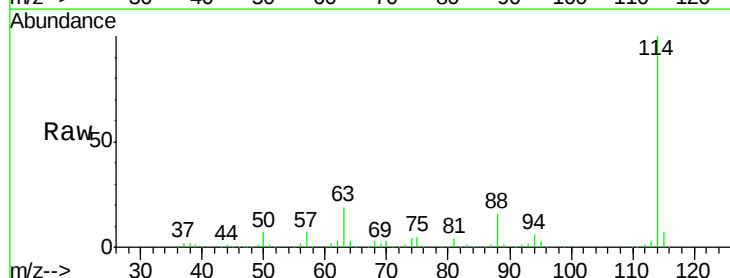
Tgt Ion: 114 Resp: 771347

Ion Ratio Lower Upper

114 100

63 18.4 16.2 24.2

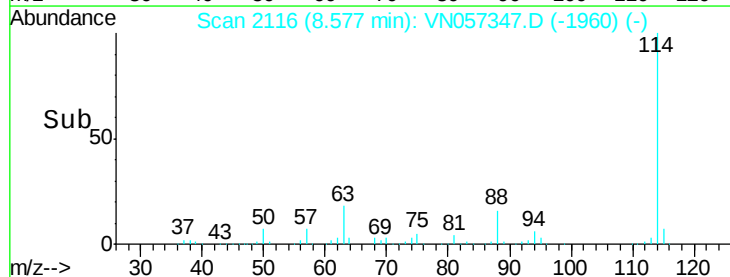
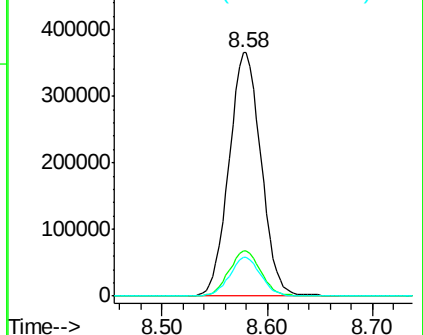
88 15.5 12.3 18.5

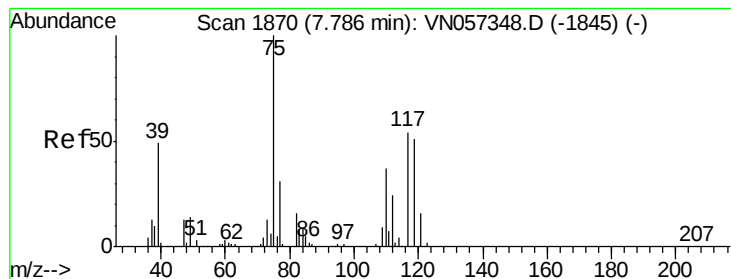


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0





#29

1,1-Dichloropropene

Concen: 5.114 ug/l

RT: 7.78 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

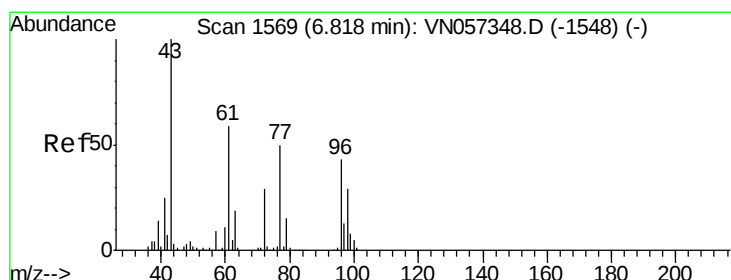
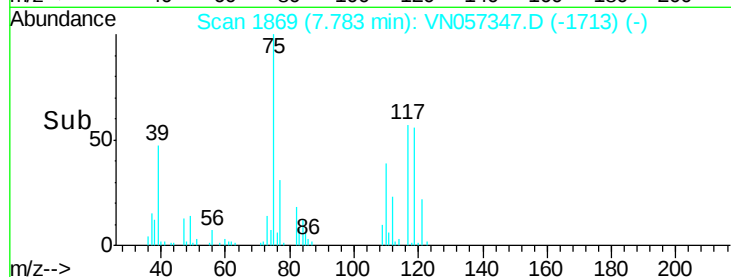
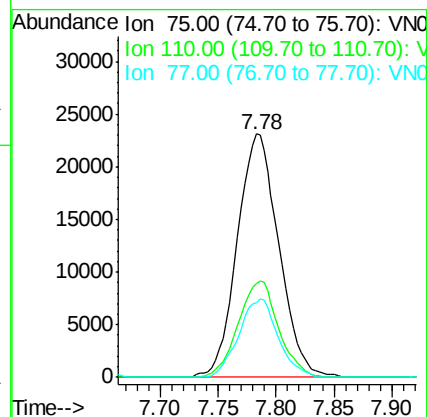
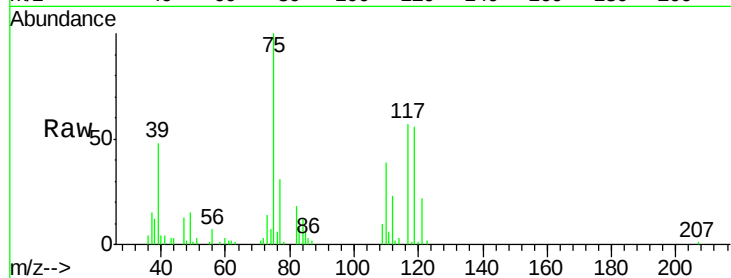
Tot Ion: 75 Resp: 57383

Ion Ratio Lower Upper

75 100

110 38.4 0.0 72.4

77 30.5 0.0 62.2



#30

2-Butanone

Concen: 25.539 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

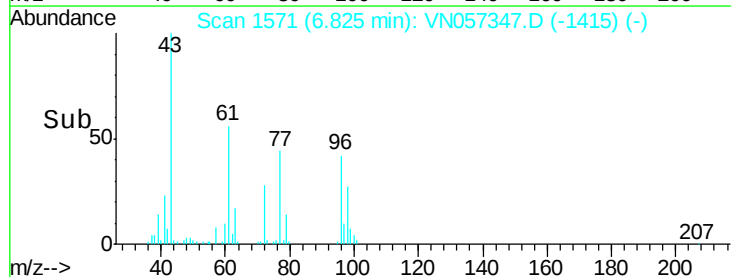
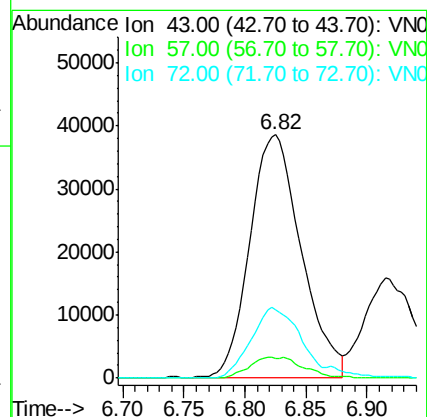
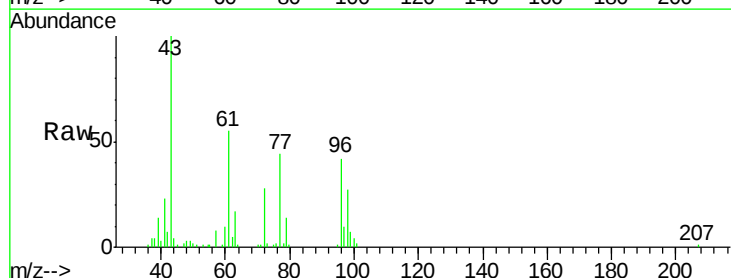
Tgt Ion: 43 Resp: 113058

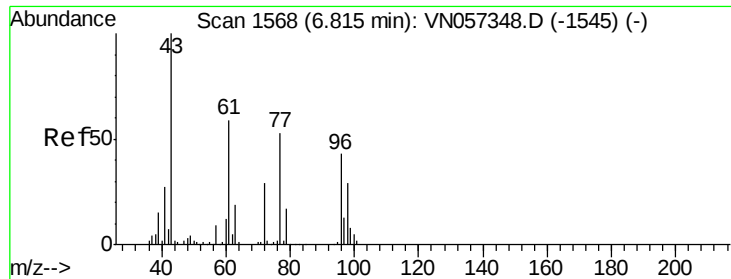
Ion Ratio Lower Upper

43 100

57 4.9 6.6 10.0#

72 27.3 21.3 31.9

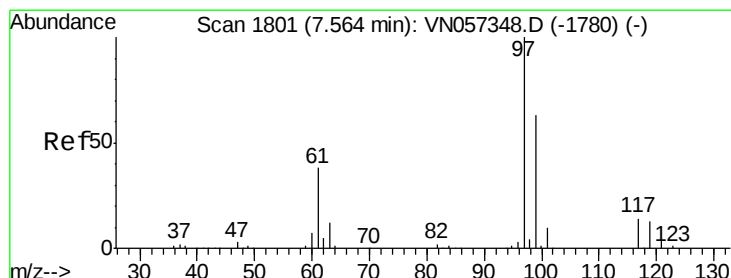
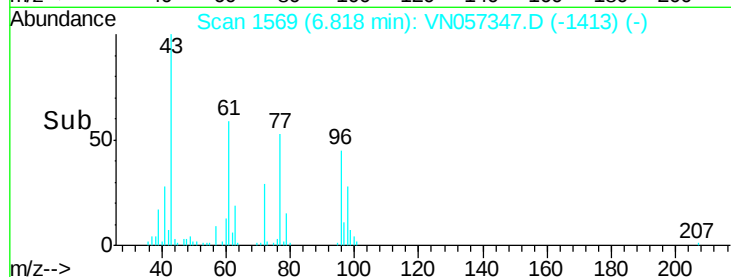
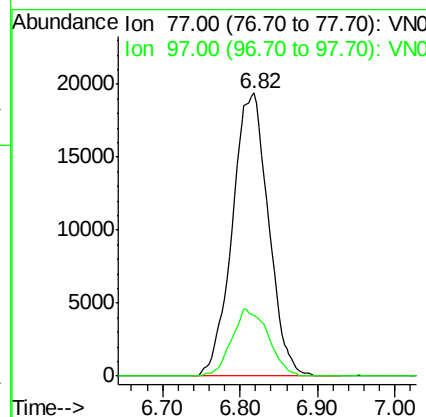
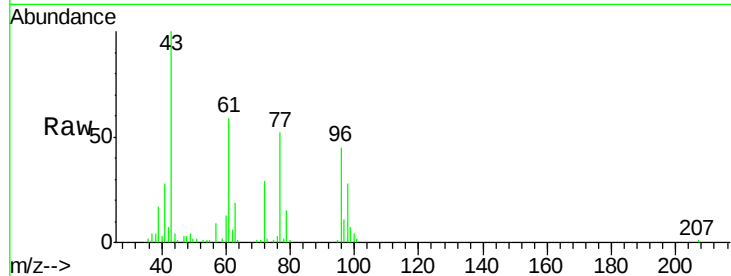




#31
 2,2-Dichloropropane
 Concen: 5.121 ug/l m
 RT: 6.82 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

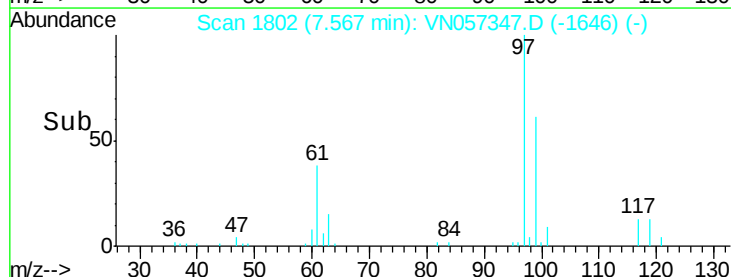
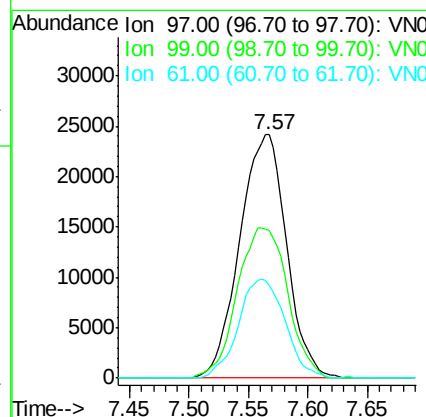
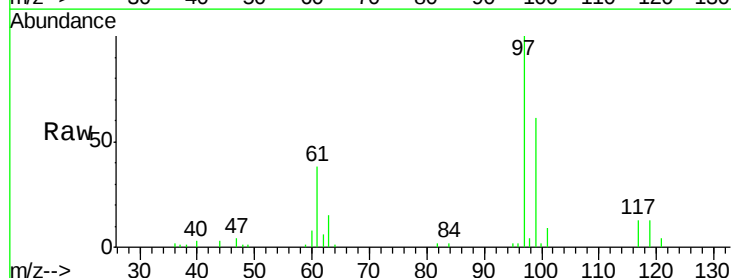
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

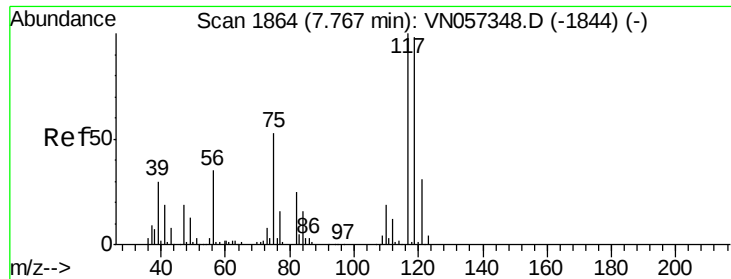
Tot Ion: 77 Resp: 62951
 Ion Ratio Lower Upper
 77 100
 97 0.0 19.7 29.5#



#32
 1,1,1-Trichloroethane
 Concen: 4.962 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion: 97 Resp: 65823
 Ion Ratio Lower Upper
 97 100
 99 66.3 52.0 78.0
 61 40.4 34.4 51.6

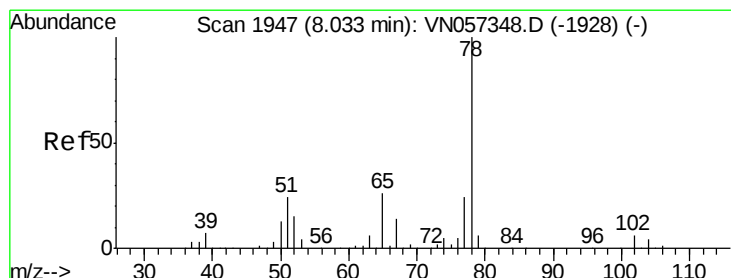
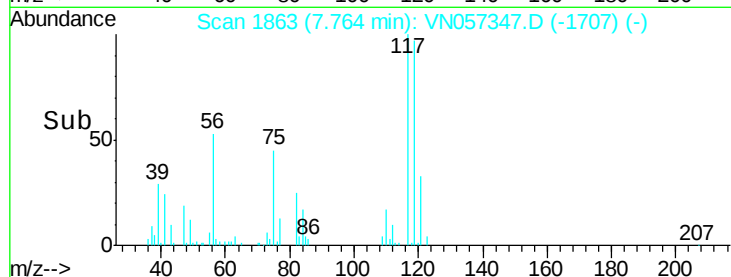
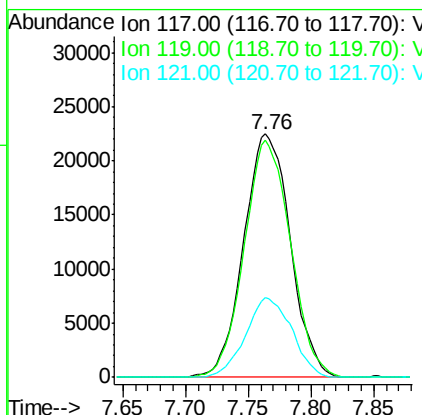
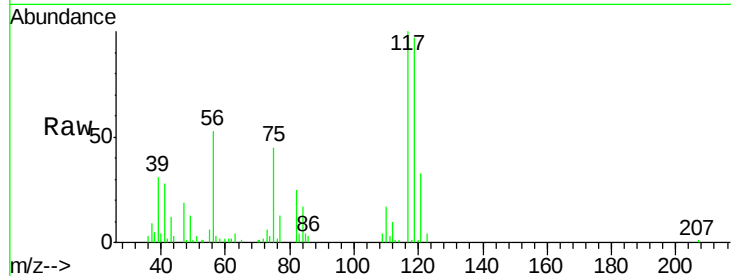




#33
Carbon Tetrachloride
Concen: 4.926 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

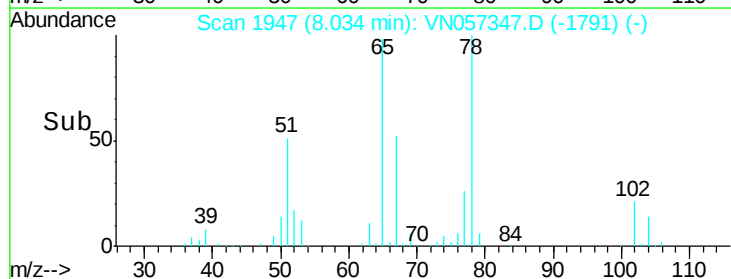
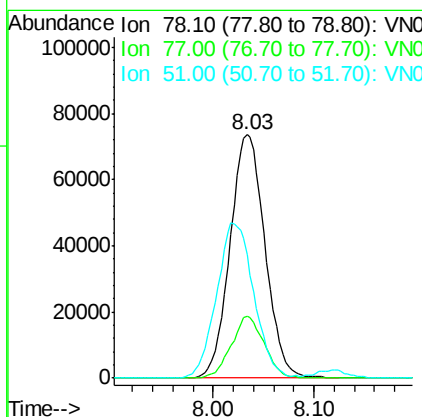
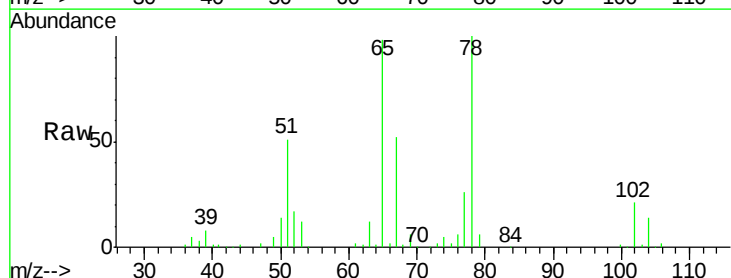
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

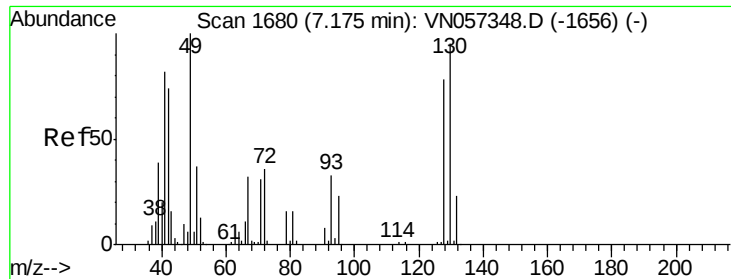
Tot Ion:117 Resp: 58188
Ion Ratio Lower Upper
117 100
119 97.3 78.7 118.1
121 33.0 24.0 36.0



#34
Benzene
Concen: 5.199 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 78 Resp: 176977
Ion Ratio Lower Upper
78 100
77 25.5 19.0 28.4
51 49.5 19.7 29.5#

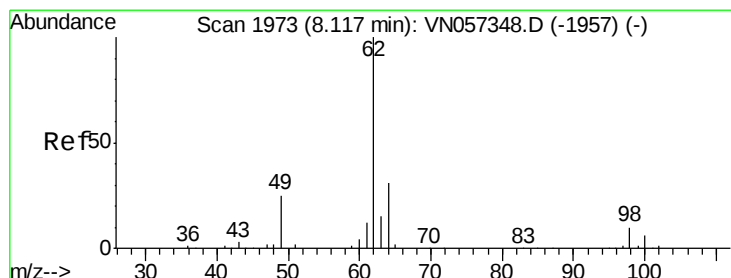
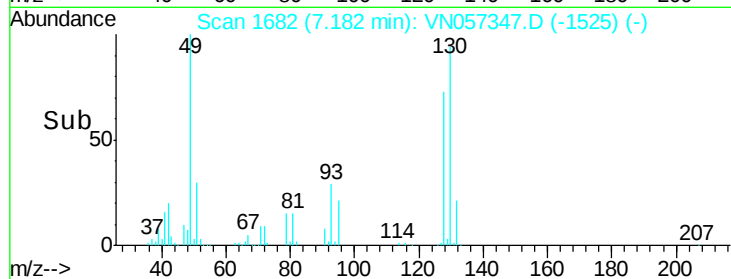
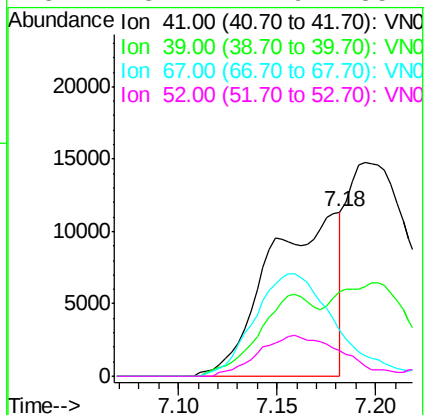
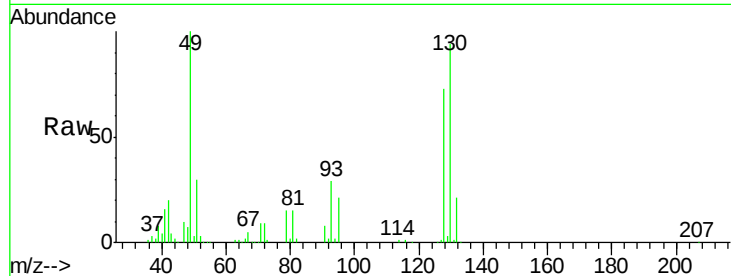




#35
Methacrylonitrile
Concen: 4.654 ug/l m
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

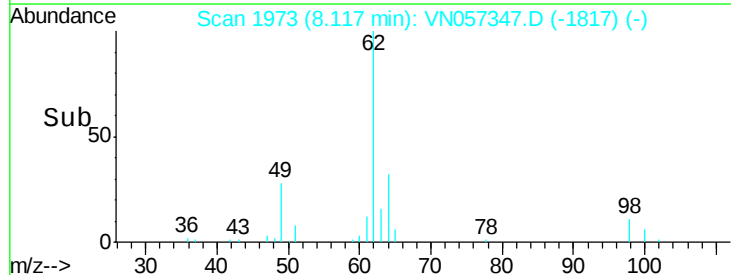
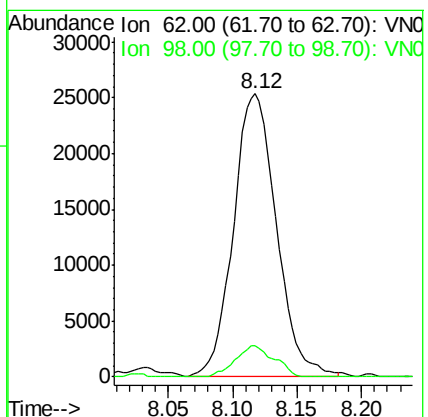
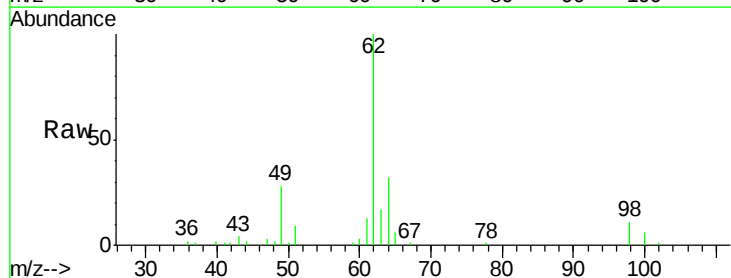
Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

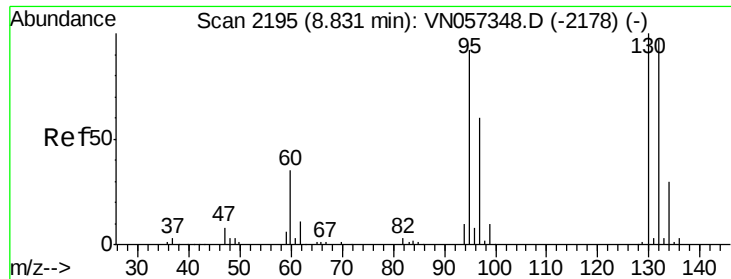
Tot Ion: 41 Resp: 28146
Ion Ratio Lower Upper
41 100
39 51.7 25.4 76.2
67 28.3 33.6 100.8#
52 15.4 12.9 38.7



#36
1,2-Dichloroethane
Concen: 5.314 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 62 Resp: 58785
Ion Ratio Lower Upper
62 100
98 10.0 7.7 11.5

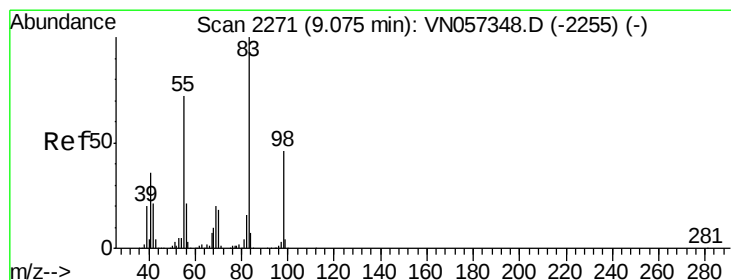
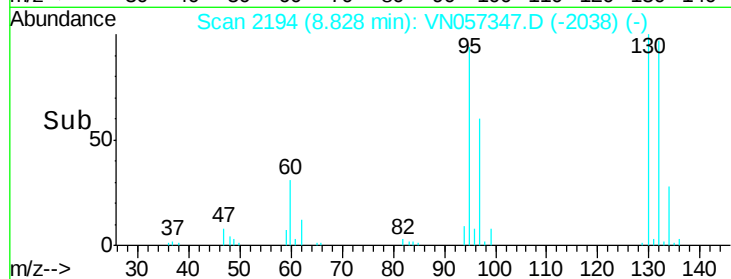
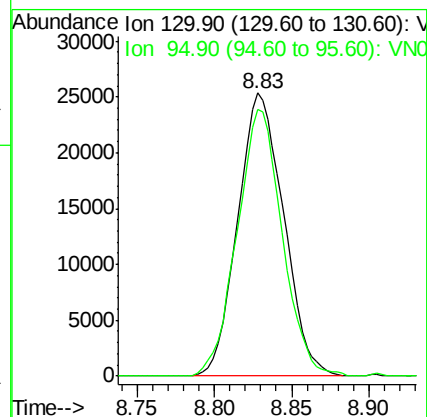
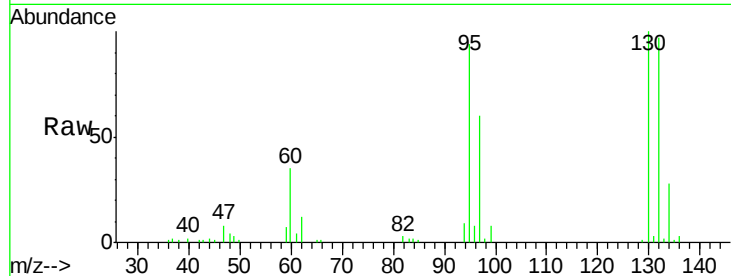




#37
 Trichloroethene
 Concen: 5.272 ug/l
 RT: 8.83 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

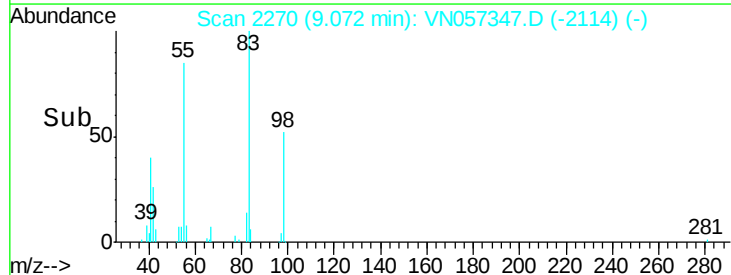
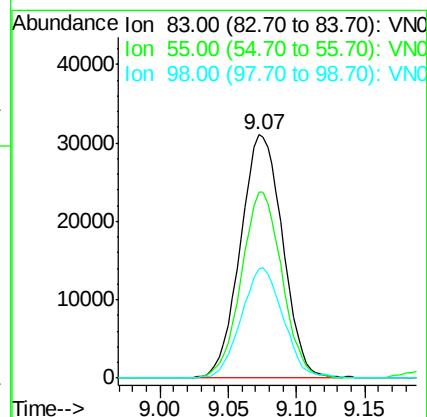
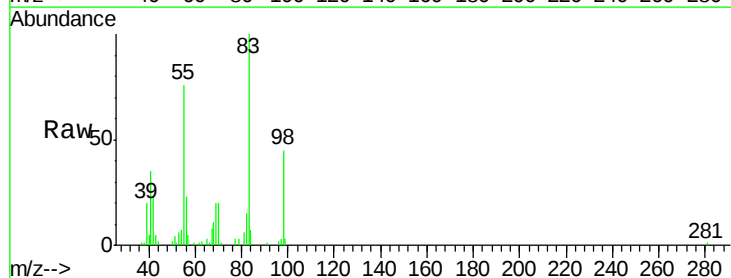
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

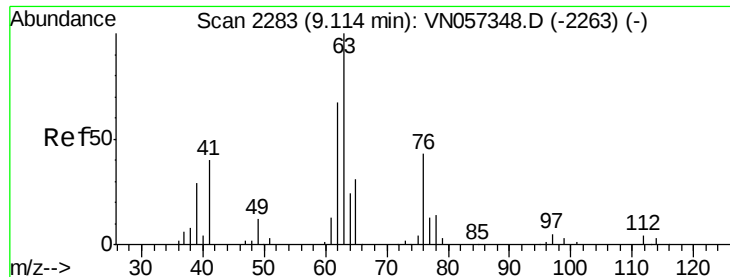
Tot Ion:130 Resp: 52241
 Ion Ratio Lower Upper
 130 100
 95 94.4 78.4 117.6



#38
 Methylcyclohexane
 Concen: 5.031 ug/l
 RT: 9.07 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion: 83 Resp: 66856
 Ion Ratio Lower Upper
 83 100
 55 73.5 38.4 115.2
 98 44.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 5.059 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

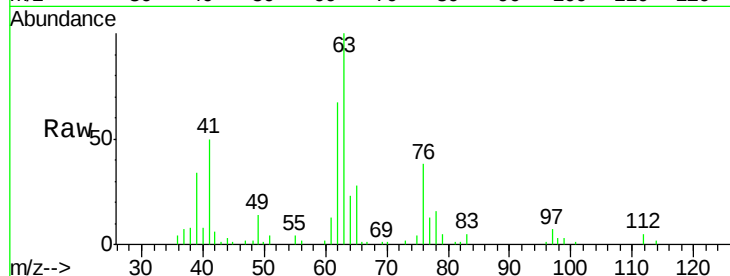
VSTDIC005

Tot Ion: 63 Resp: 44011

Ion Ratio Lower Upper

63 100

65 28.1 24.6 36.8



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

25000

20000

15000

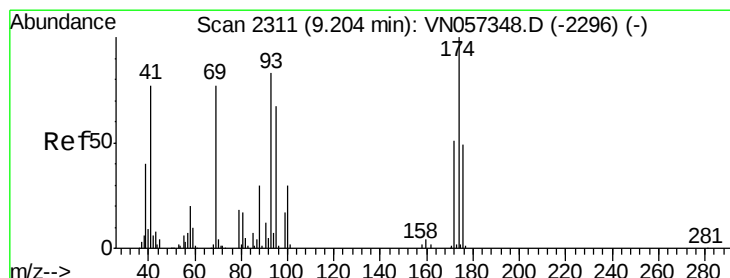
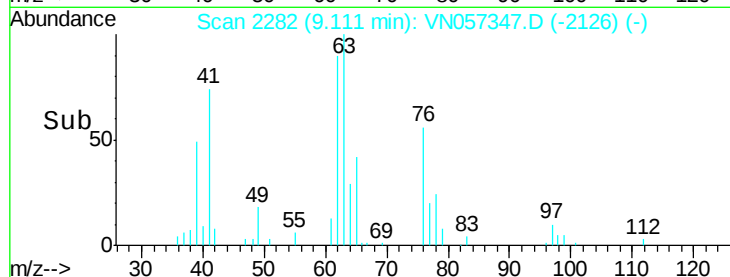
10000

5000

0

9.05 9.10 9.15

Time-->



#40

Dibromomethane

Concen: 5.163 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

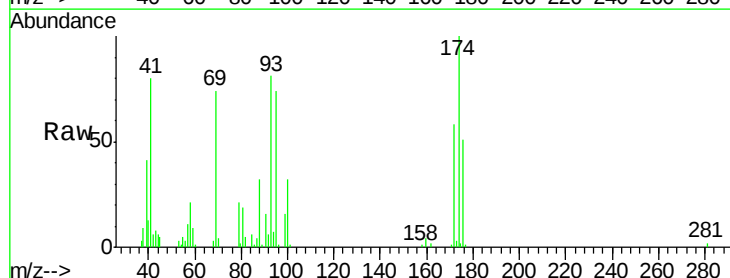
Tgt Ion: 93 Resp: 29884

Ion Ratio Lower Upper

93 100

95 84.1 0.0 167.0

174 119.0 0.0 224.2



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

20000

15000

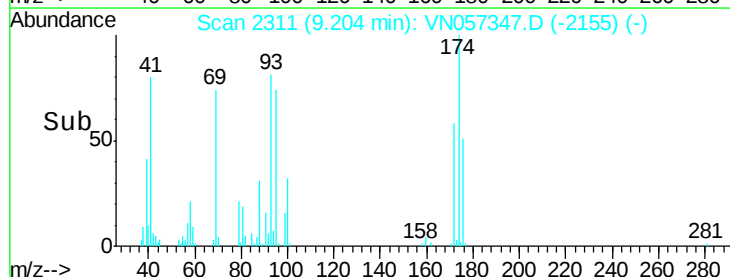
10000

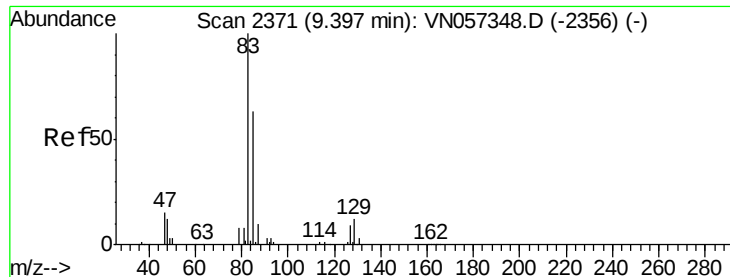
5000

0

9.15 9.20 9.25

Time-->





#41

Bromodichloromethane

Concen: 5.011 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

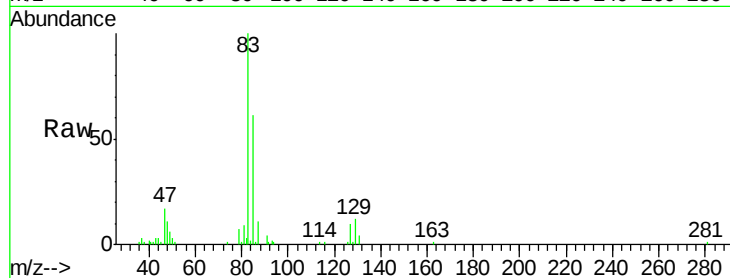
Tot Ion: 83 Resp: 58767

Ion Ratio Lower Upper

83 100

85 61.2 50.1 75.1

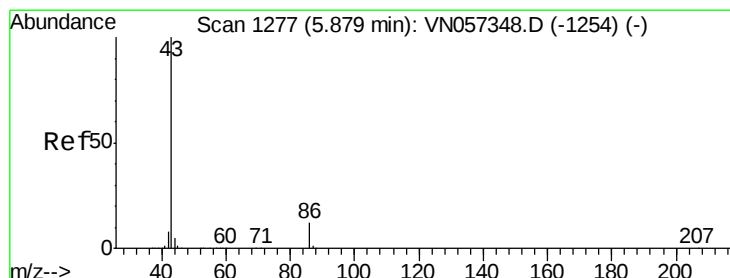
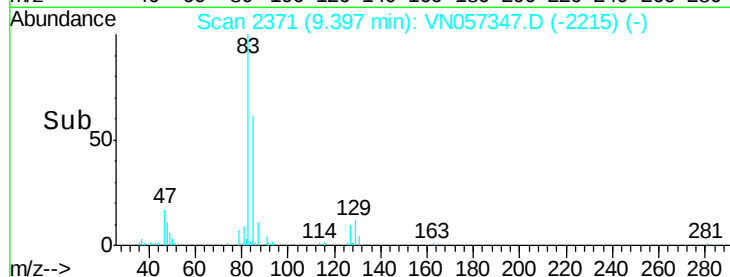
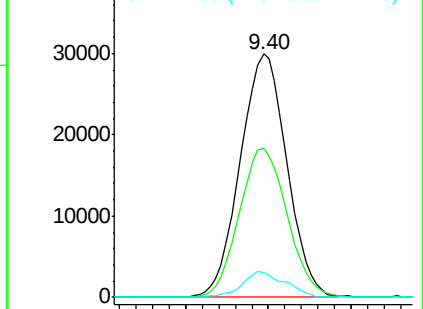
127 10.3 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN057347.D (-2215) (-)

Ion 85.00 (84.70 to 85.70): VN057347.D (-2215) (-)

Ion 127.00 (126.70 to 127.70): VN057347.D (-2215) (-)



#42

Vinyl Acetate

Concen: 24.344 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VN057347.D

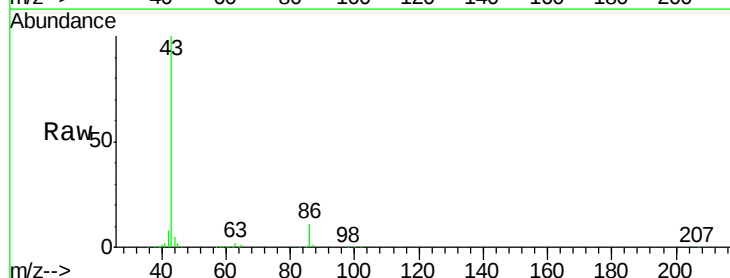
Acq: 16 Aug 2019 11:29

Tgt Ion: 43 Resp: 453464

Ion Ratio Lower Upper

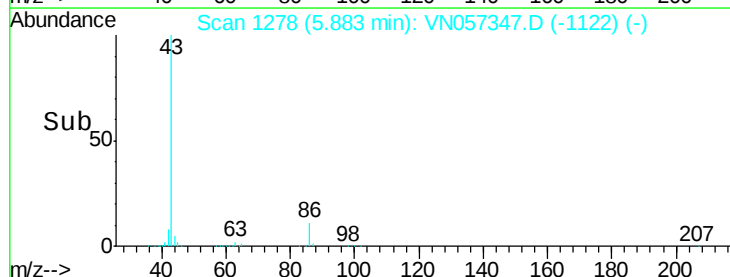
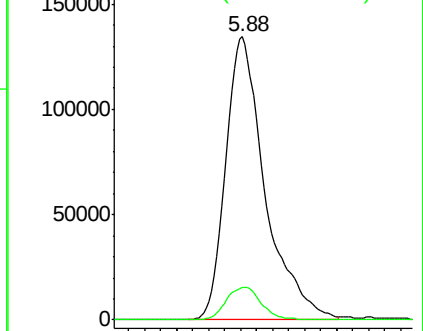
43 100

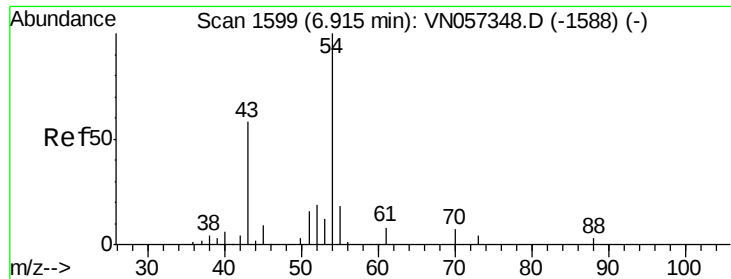
86 10.1 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VN057347.D (-1122) (-)

Ion 86.00 (85.70 to 86.70): VN057347.D (-1122) (-)

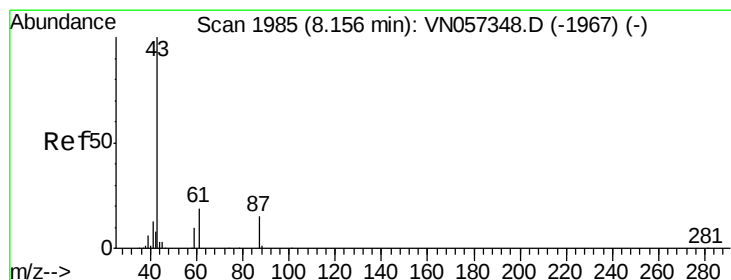
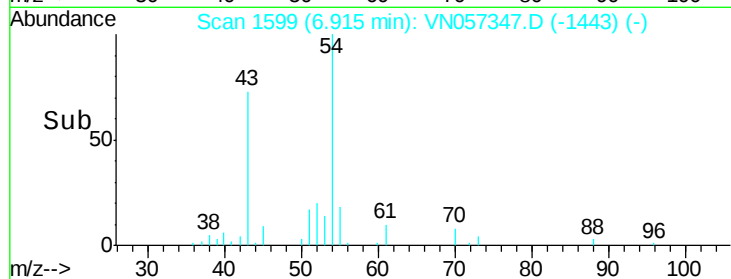
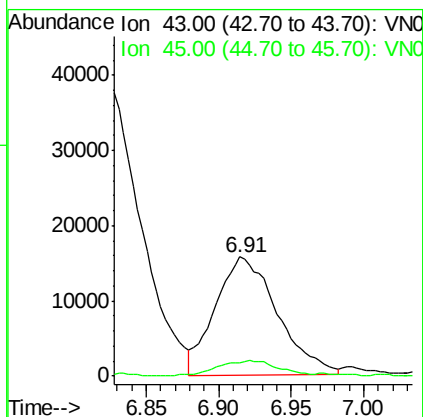
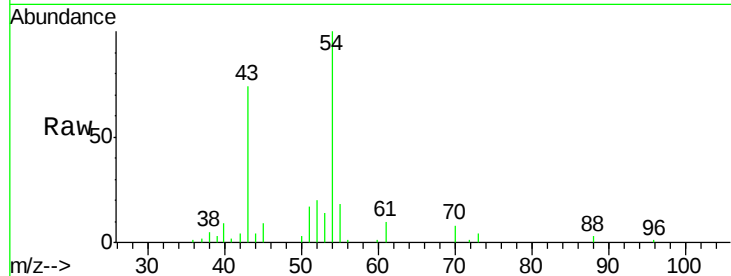




#43
Ethyl Acetate
Concen: 5.173 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

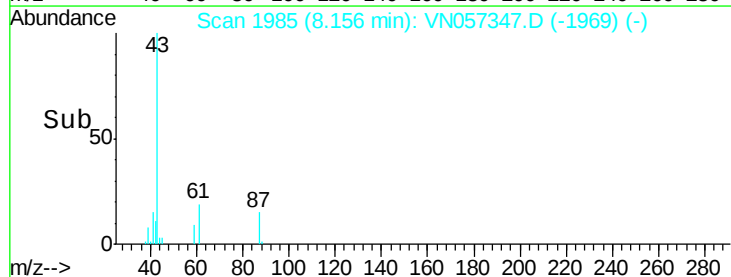
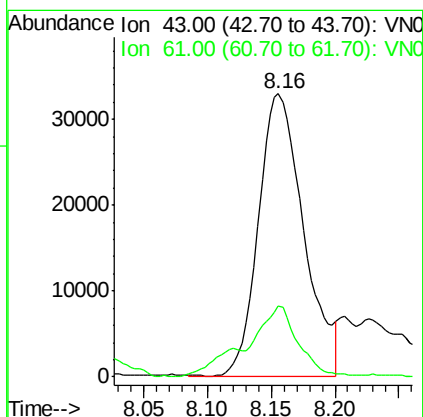
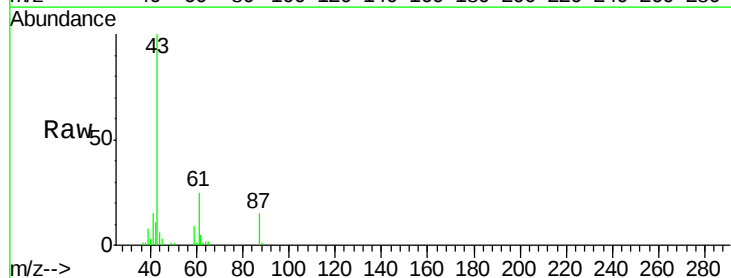
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

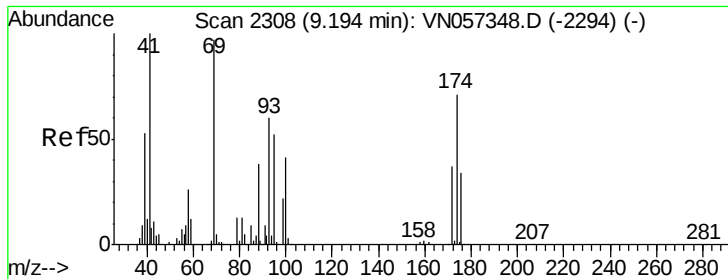
Tot Ion: 43 Resp: 46982
Ion Ratio Lower Upper
43 100
45 12.9 11.2 16.8



#44
Isopropyl Acetate
Concen: 5.091 ug/l m
RT: 8.16 min Scan# 1985
Delta R.T. -0.45 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 43 Resp: 81490
Ion Ratio Lower Upper
43 100
61 0.1 22.6 33.8#

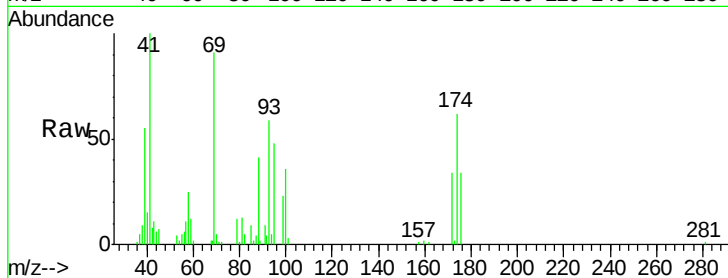




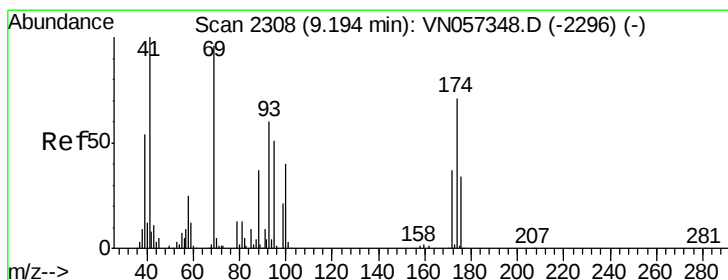
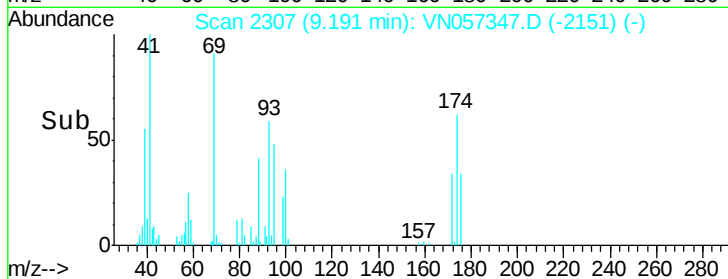
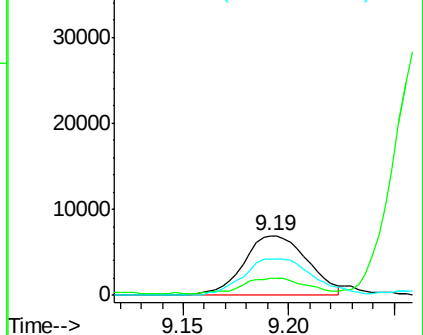
#45
1,4-Dioxane
Concen: 96.453 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	88	Resp	14532
Ion	Ratio	Lower	Upper
88	100		
43	10.0	23.0	34.6#
58	67.2	54.6	81.8

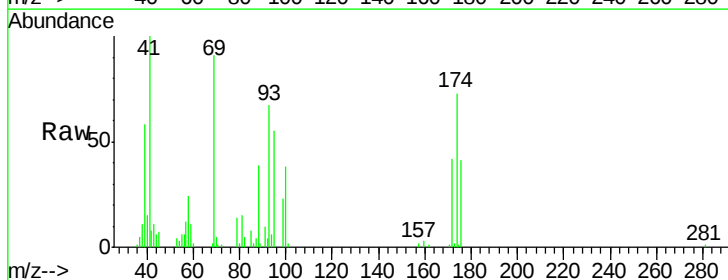


Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

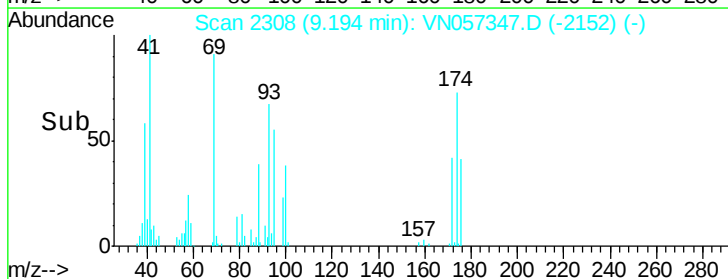
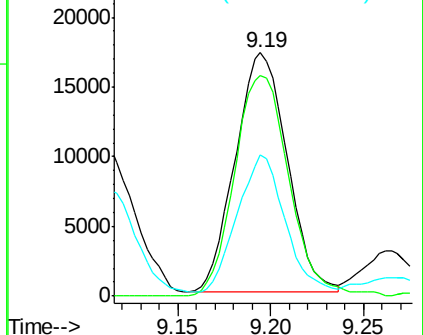


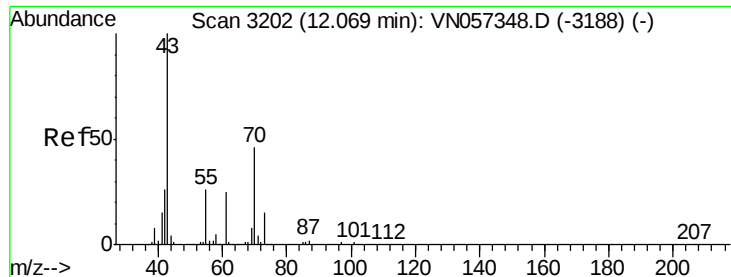
#46
Methyl methacrylate
Concen: 4.656 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion	41	Resp	33367
Ion	Ratio	Lower	Upper
41	100		
69	92.3	43.0	129.0
39	57.0	25.1	75.4



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#47

n-amyl Acetate

Concen: 4.276 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

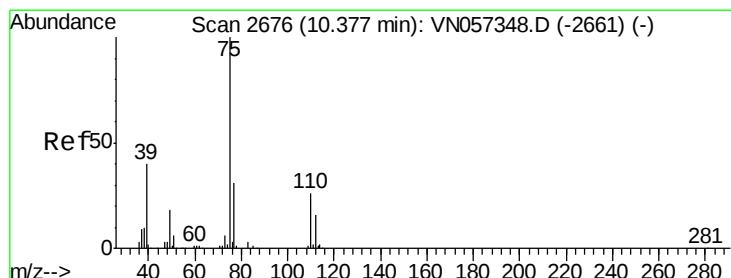
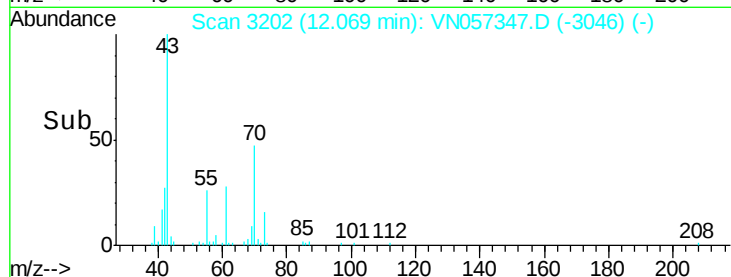
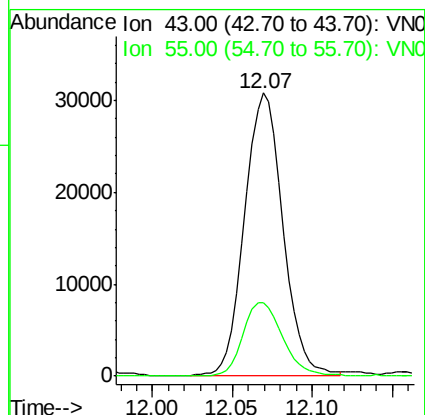
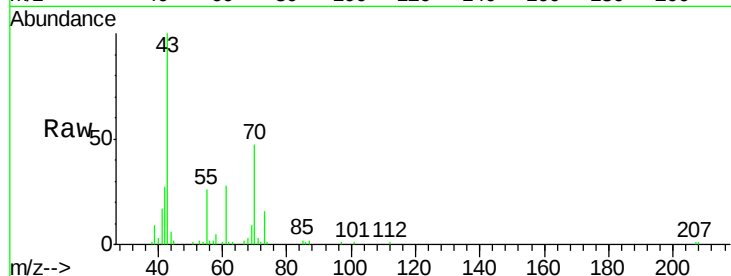
VSTDIC005

Tot Ion: 43 Resp: 50501

Ion Ratio Lower Upper

43 100

55 26.8 20.7 31.1



#48

t-1,3-Dichloropropene

Concen: 4.744 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057347.D

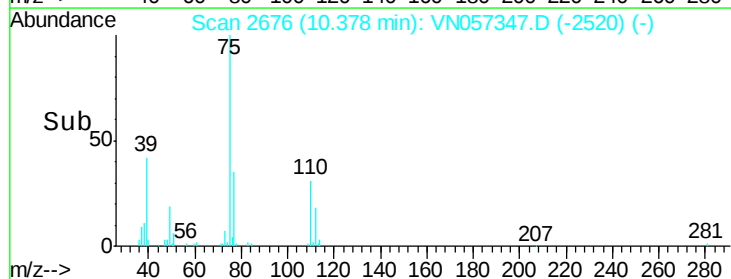
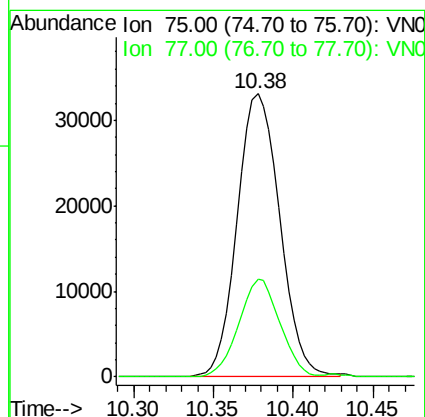
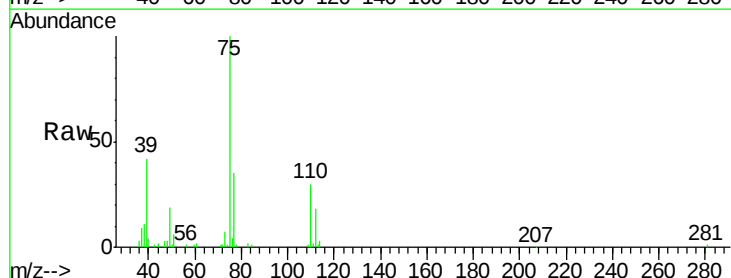
Acq: 16 Aug 2019 11:29

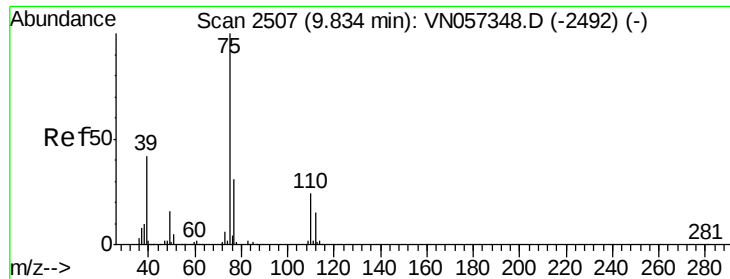
Tgt Ion: 75 Resp: 60190

Ion Ratio Lower Upper

75 100

77 34.6 25.7 38.5



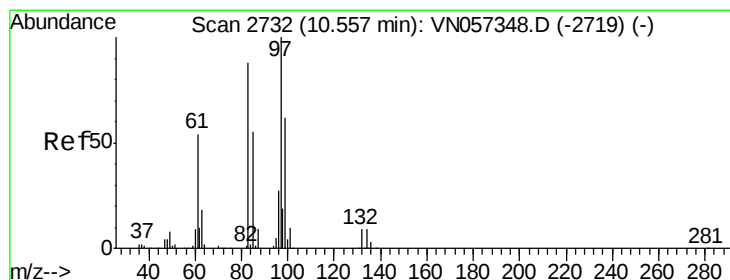
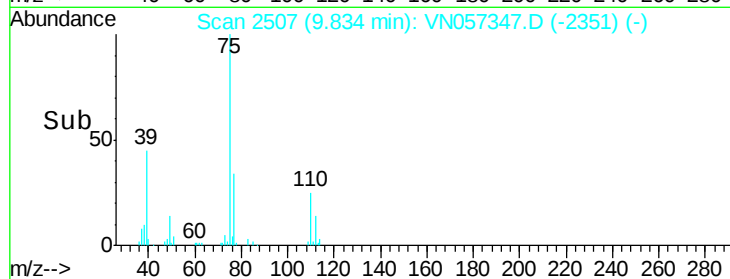
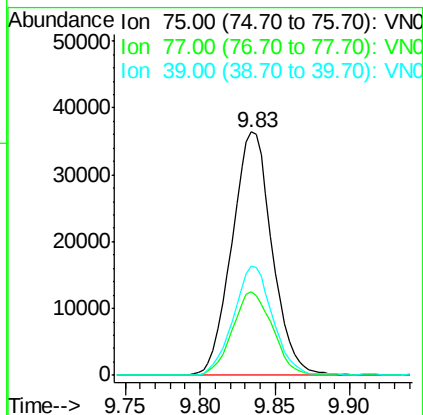
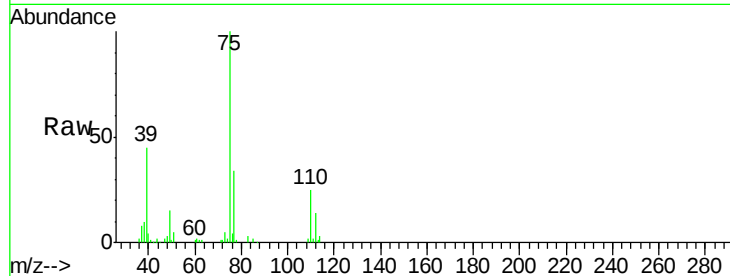


#49

cis-1,3-Dichloropropene
 Concen: 4.816 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

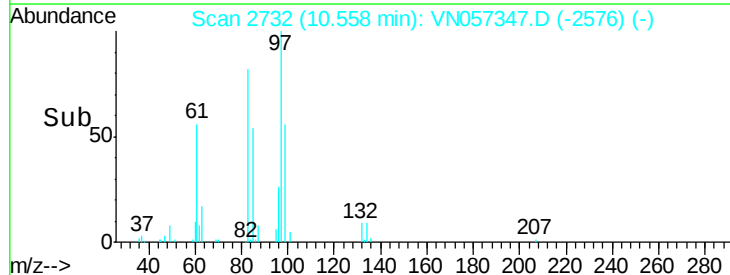
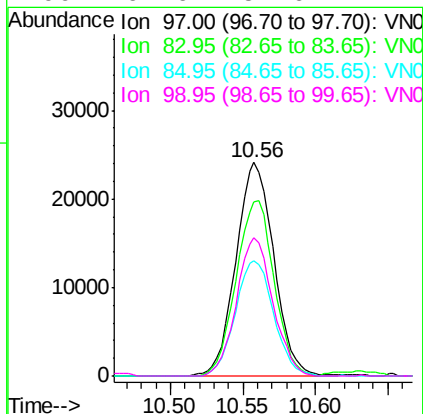
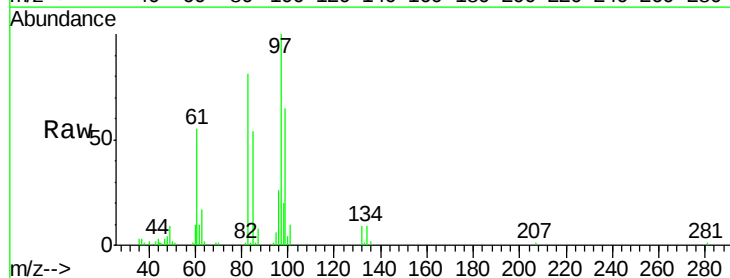
Tot Ion	Ratio	Lower	Upper
75	100		
77	34.4	26.0	39.0
39	45.0	36.2	54.4

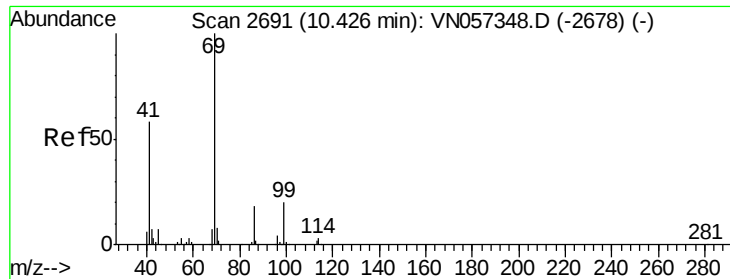


#50

1,1,2-Trichloroethane
 Concen: 5.187 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.4	69.2	103.8
85	53.9	45.3	67.9
99	64.6	51.6	77.4





#51

Ethyl methacrylate

Concen: 4.540 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

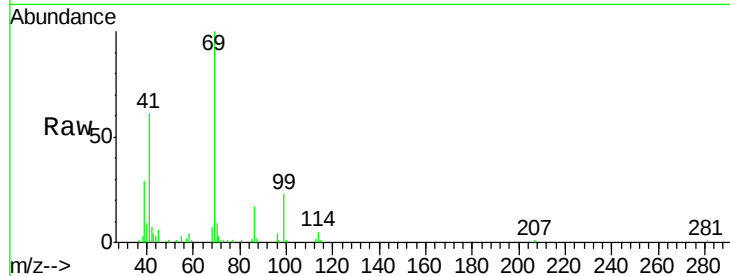
Tot Ion: 69 Resp: 55585

Ion Ratio Lower Upper

69 100

41 60.9 32.8 98.3

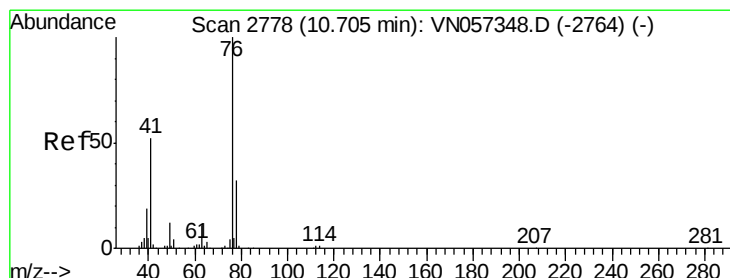
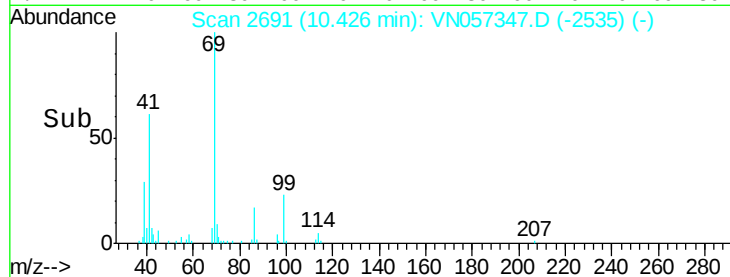
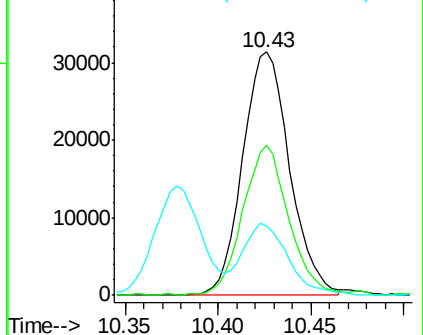
39 27.3 15.4 46.2



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



#52

1,3-Dichloropropane

Concen: 5.044 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057347.D

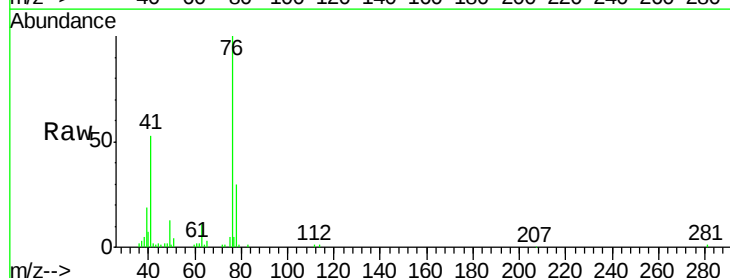
Acq: 16 Aug 2019 11:29

Tgt Ion: 76 Resp: 69580

Ion Ratio Lower Upper

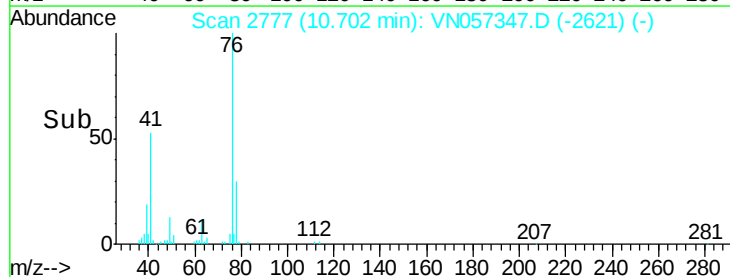
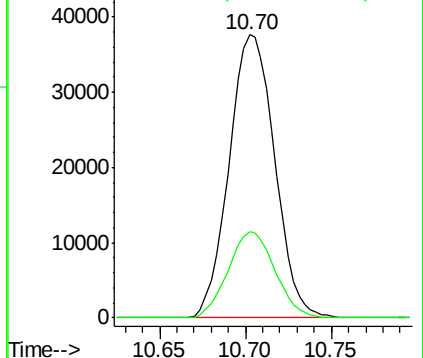
76 100

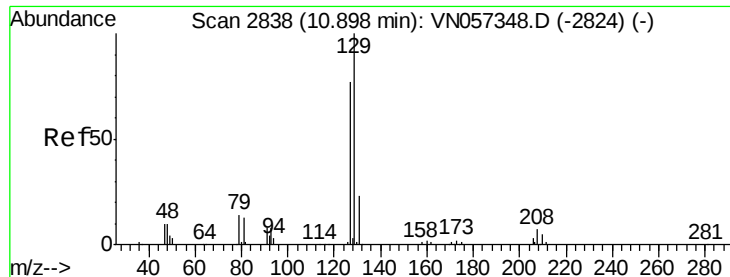
78 31.1 0.0 63.6



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 4.723 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

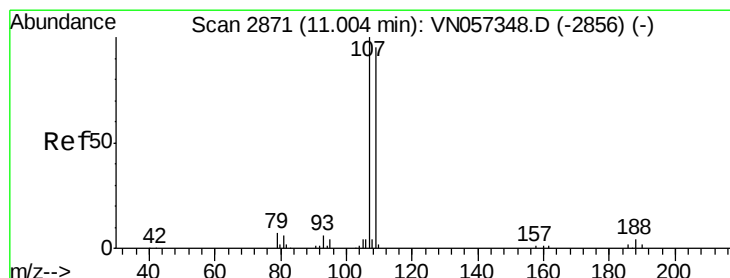
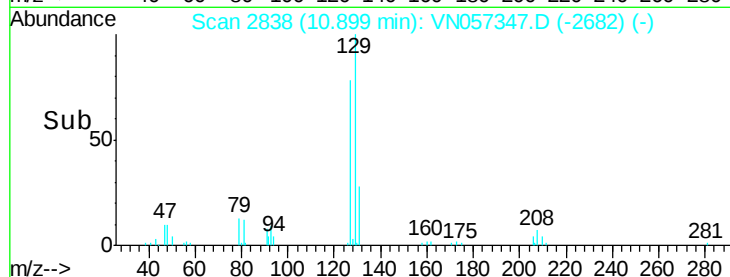
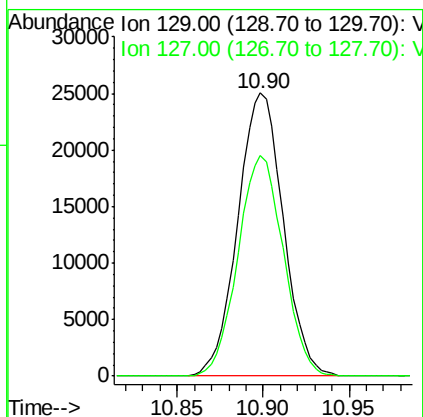
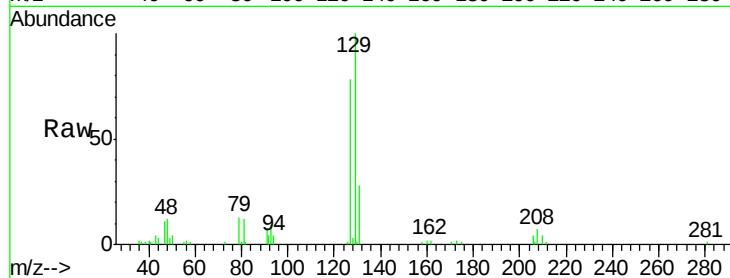
VSTDIC005

Tot Ion:129 Resp: 45893

Ion Ratio Lower Upper

129 100

127 77.6 38.7 116.1



#54

1,2-Dibromoethane

Concen: 4.858 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057347.D

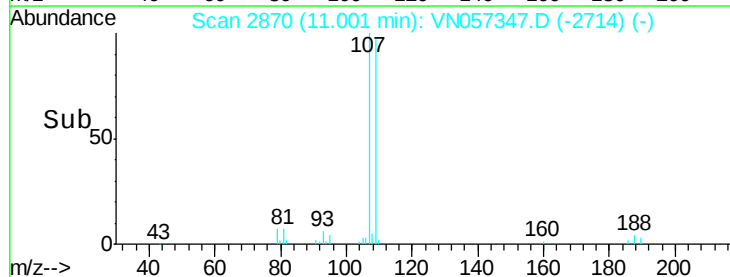
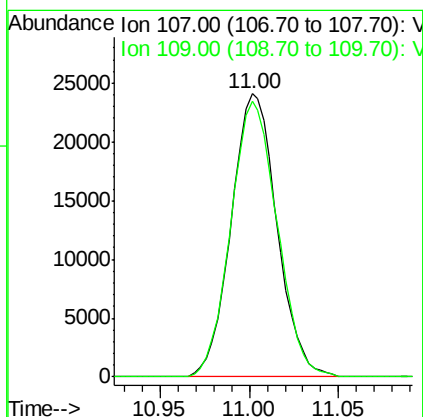
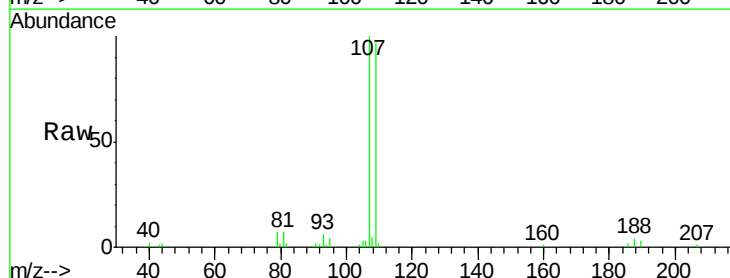
Acq: 16 Aug 2019 11:29

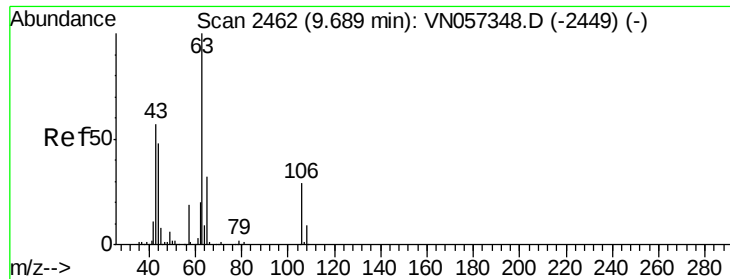
Tgt Ion:107 Resp: 43214

Ion Ratio Lower Upper

107 100

109 98.5 77.9 116.9

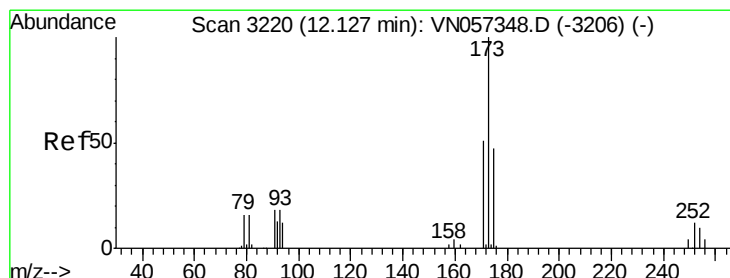
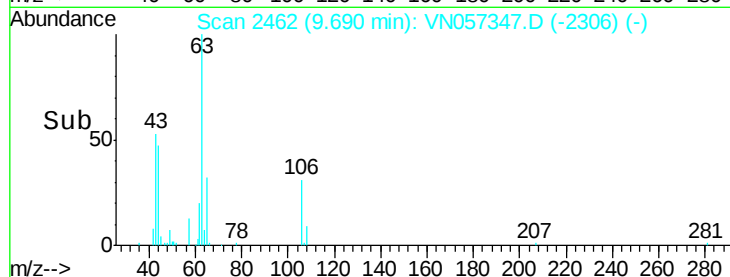
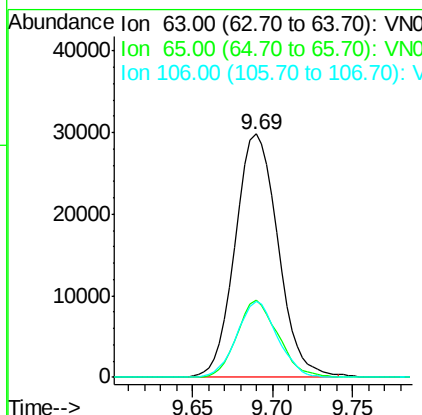
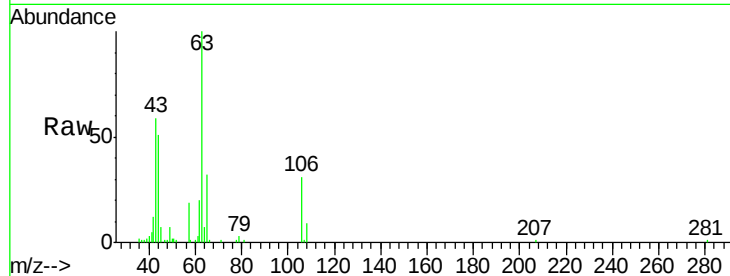




#55
 2-Chloroethyl vinyl ether
 Concen: 19.164 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

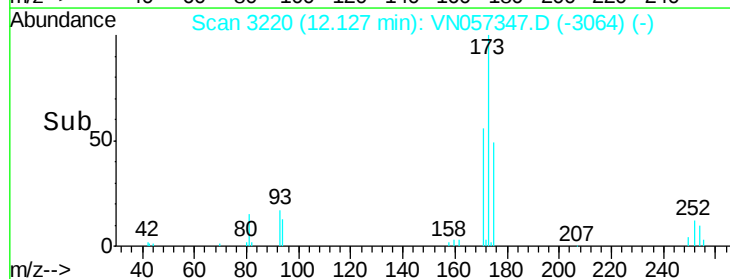
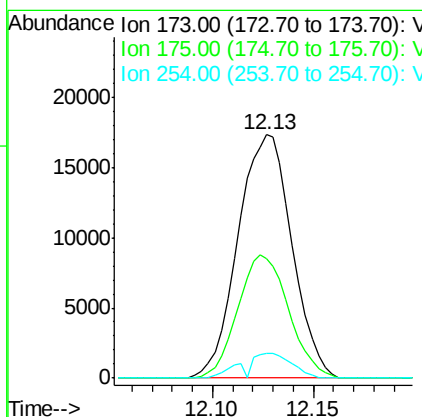
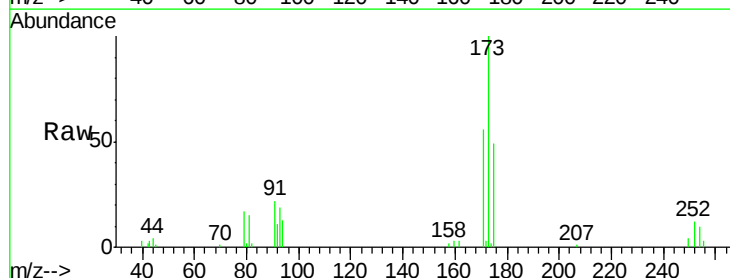
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

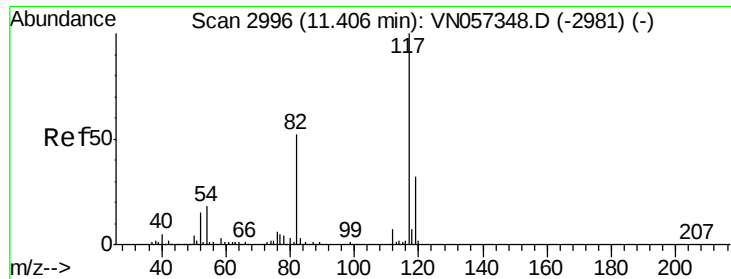
Tot Ion: 63 Resp: 54622
 Ion Ratio Lower Upper
 63 100
 65 30.3 25.2 37.8
 106 29.7 21.6 32.4



#56
 Bromoform
 Concen: 4.403 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion: 173 Resp: 32311
 Ion Ratio Lower Upper
 173 100
 175 47.8 39.7 59.5
 254 1.9 7.8 11.8#

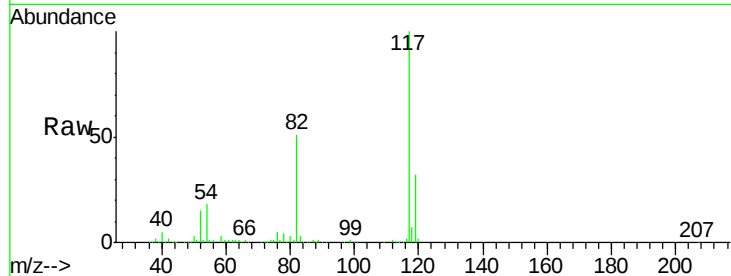




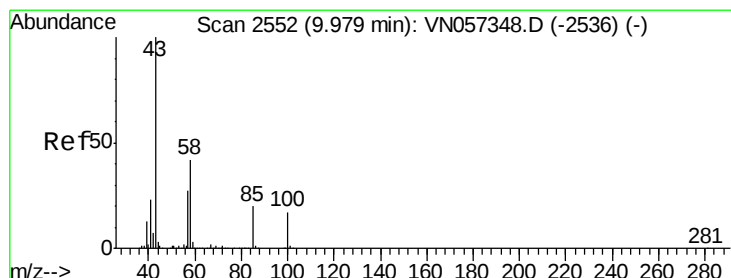
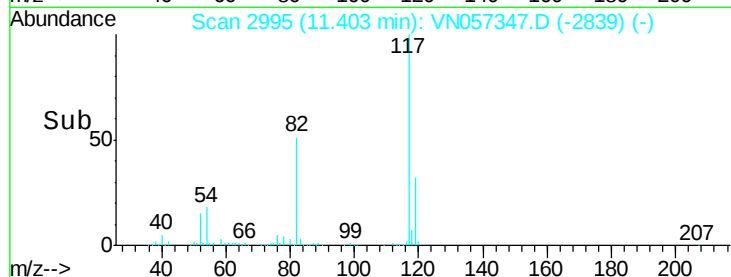
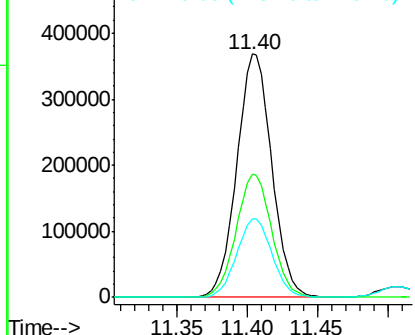
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	43.0	64.4
119	32.5	26.0	39.0

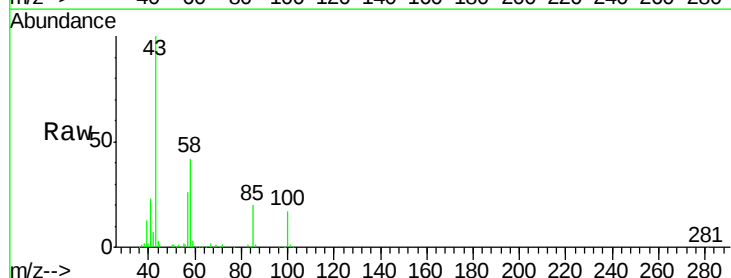


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

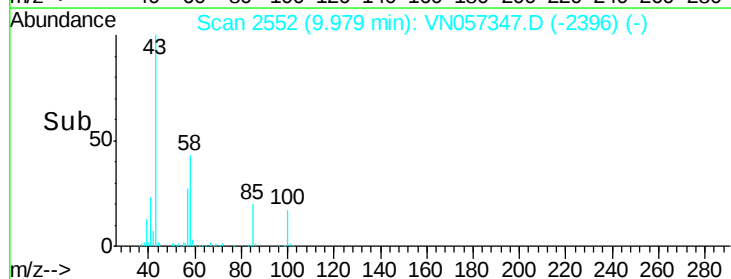
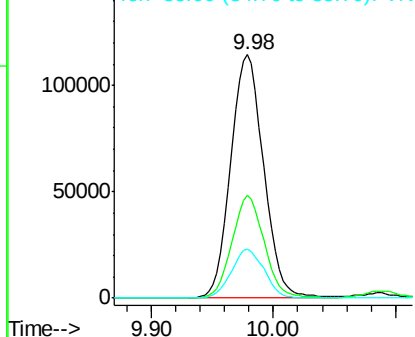


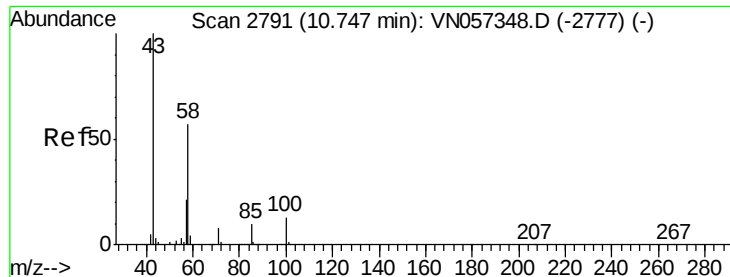
#58
4-Methyl-2-Pentanone
Concen: 25.839 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.2	31.9	47.9
85	19.8	14.2	21.4



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V

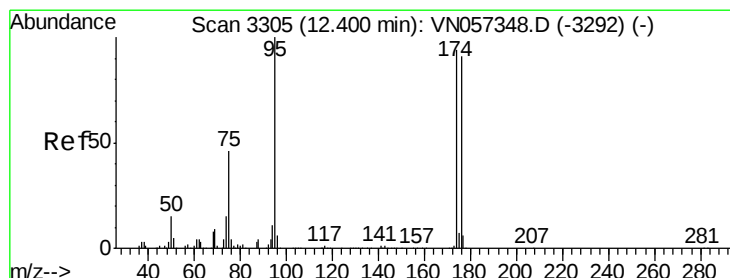
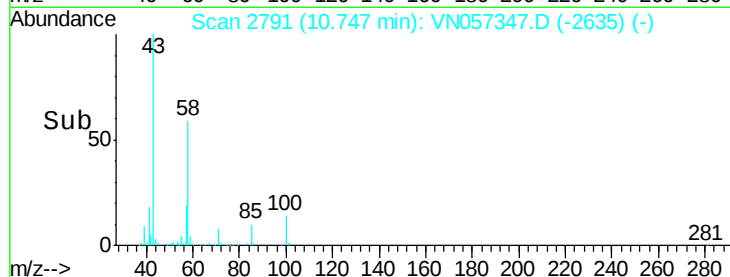
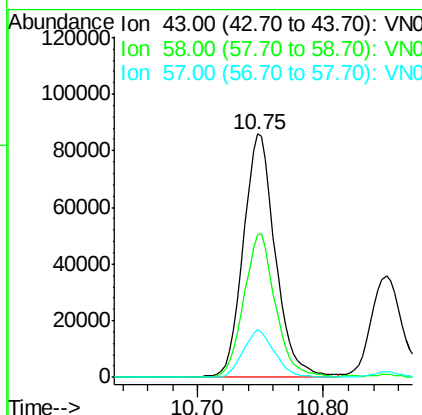
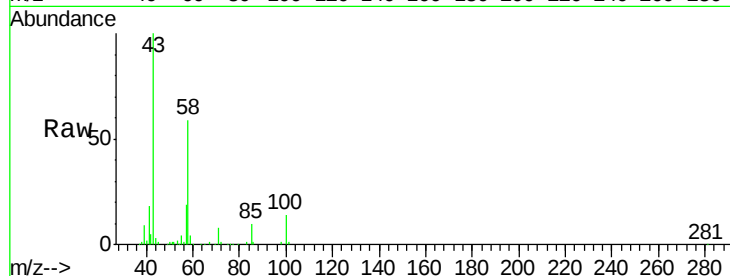




#59
2-Hexanone
Concen: 25.305 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

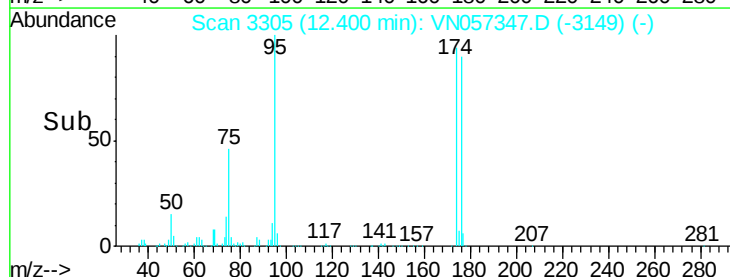
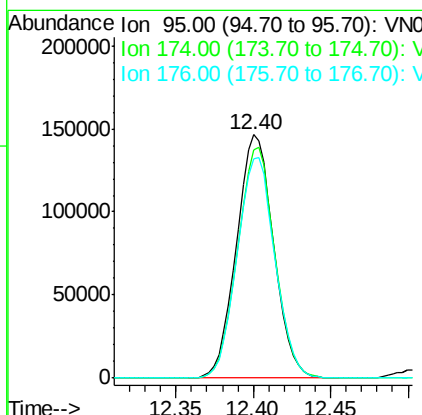
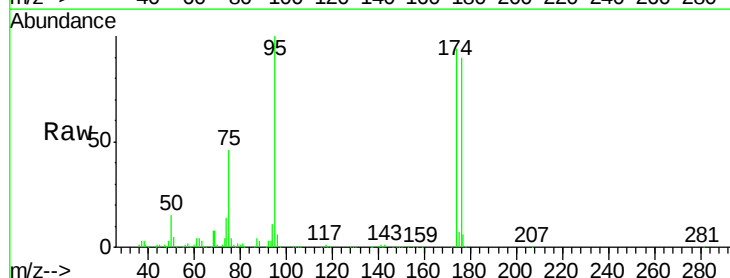
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

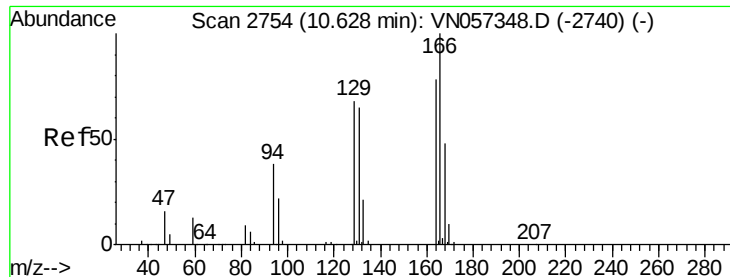
Tot Ion: 43 Resp: 151412
Ion Ratio Lower Upper
43 100
58 58.7 44.4 66.6
57 19.2 15.2 22.8



#60
4-Bromofluorobenzene
Concen: 25.893 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 95 Resp: 244170
Ion Ratio Lower Upper
95 100
174 95.1 72.6 108.8
176 92.5 71.0 106.6

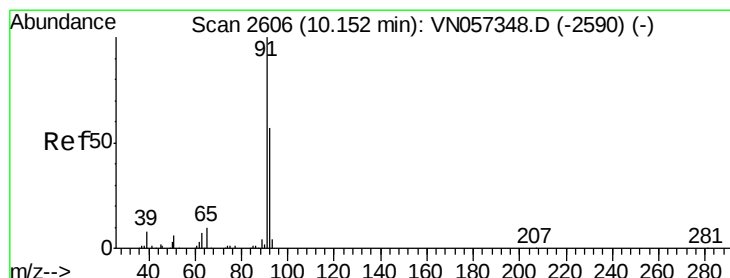
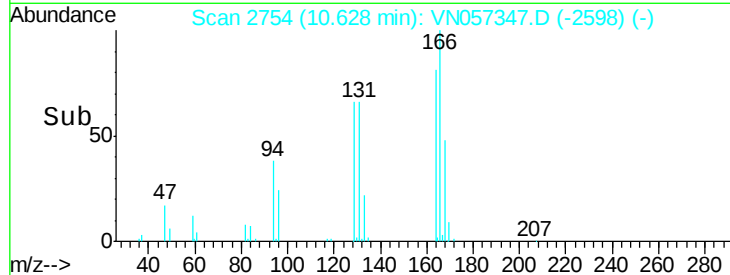
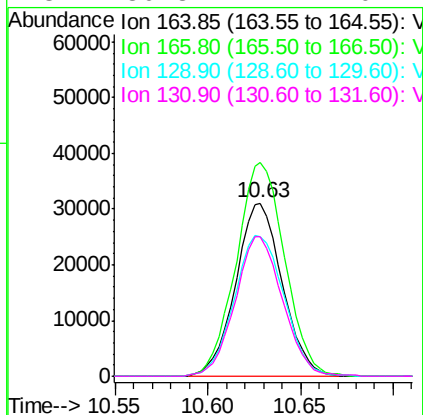
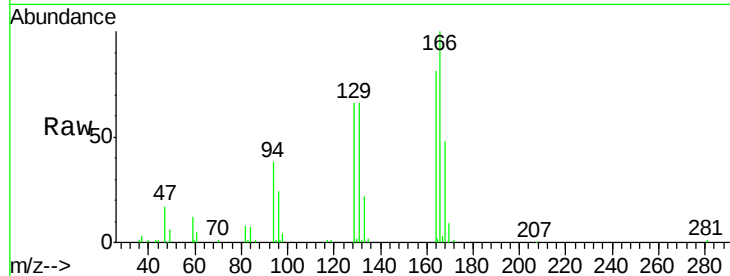




#61
Tetrachloroethene
Concen: 5.747 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

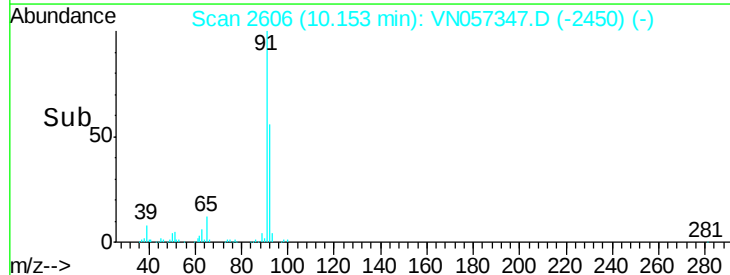
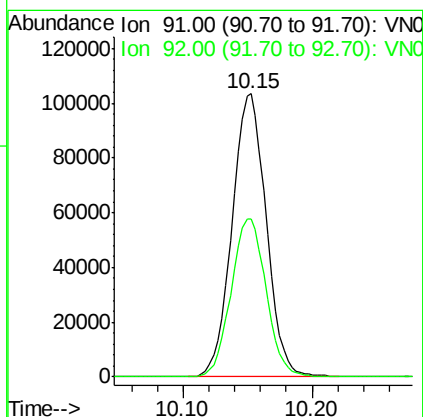
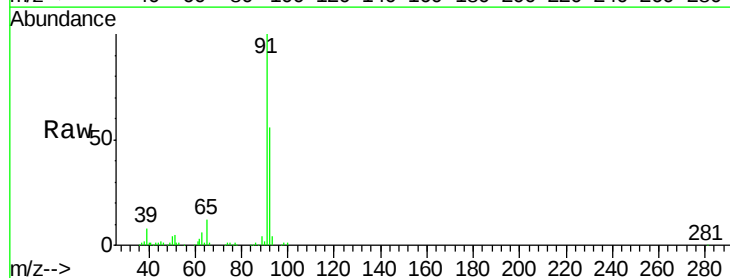
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

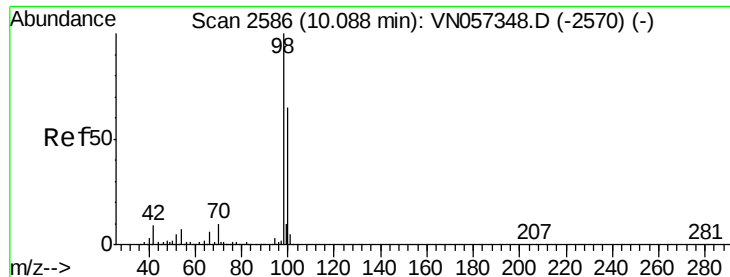
Tot Ion:164 Resp: 53941
Ion Ratio Lower Upper
164 100
166 122.7 102.3 153.5
129 80.3 72.6 108.8
131 80.3 71.4 107.2



#62
Toluene
Concen: 5.390 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion: 91 Resp: 190399
Ion Ratio Lower Upper
91 100
92 57.1 46.7 70.1





#63

Toluene-d8

Concen: 31.372 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

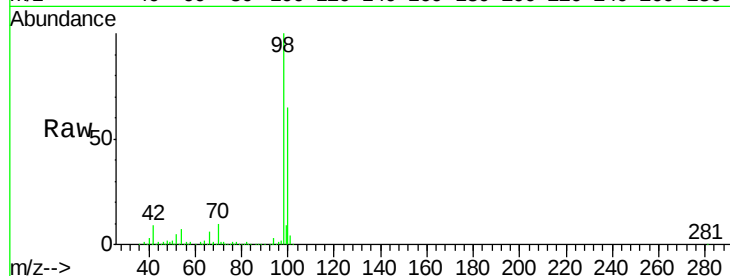
VSTDIC005

Tot Ion: 98 Resp: 906210

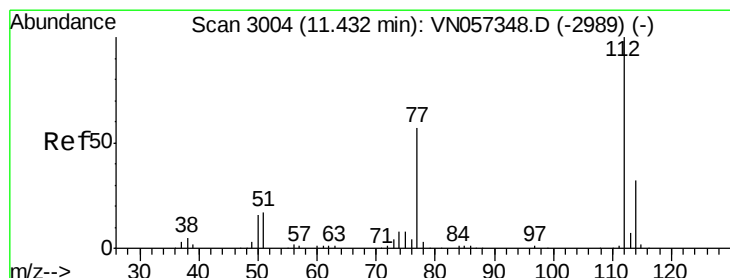
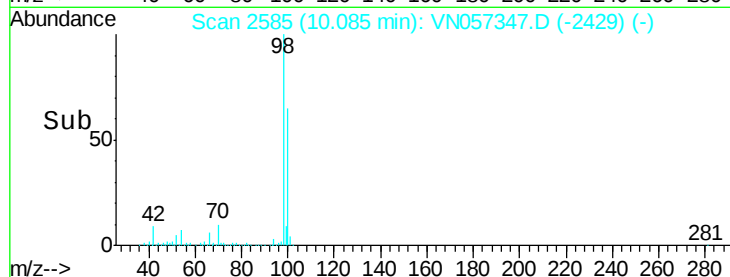
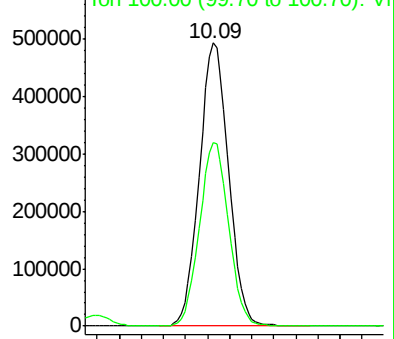
Ion Ratio Lower Upper

98 100

100 64.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN057348.D (-2570) (-)



#64

Chlorobenzene

Concen: 5.202 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057347.D

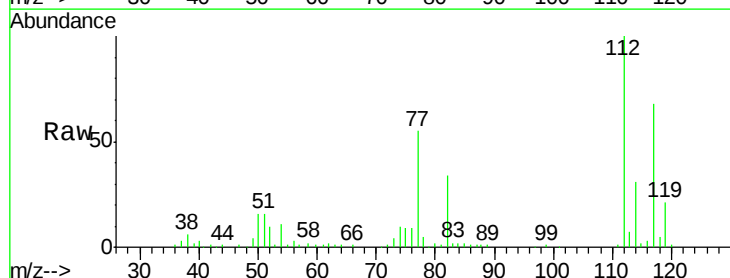
Acq: 16 Aug 2019 11:29

Tgt Ion: 112 Resp: 115427

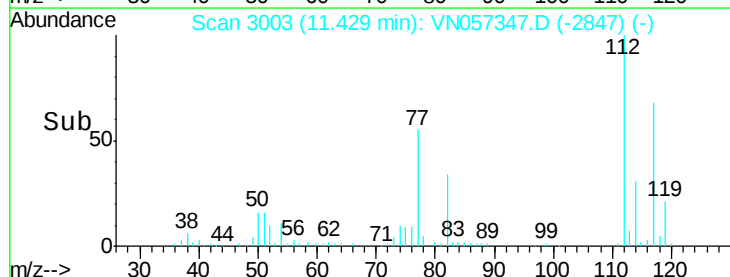
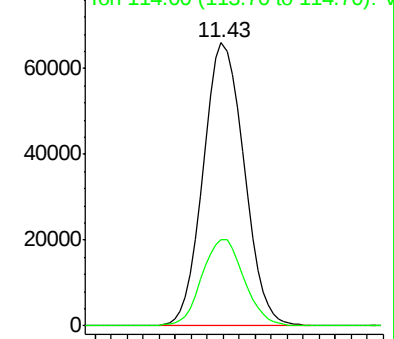
Ion Ratio Lower Upper

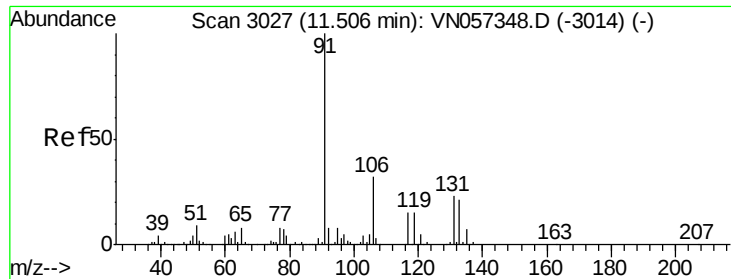
112 100

114 30.6 25.3 37.9



Abundance Ion 112.00 (111.70 to 112.70): VN057348.D (-2989) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 5.315 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

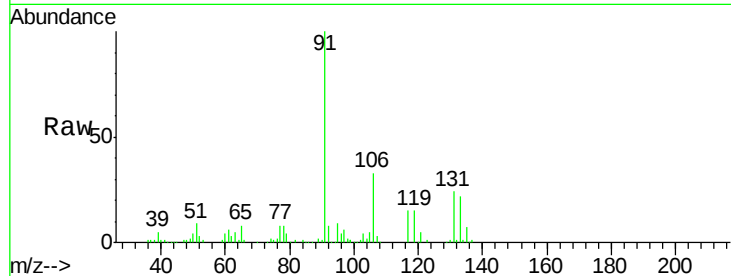
Tot Ion:131 Resp: 45846

Ion Ratio Lower Upper

131 100

133 96.9 0.0 191.4

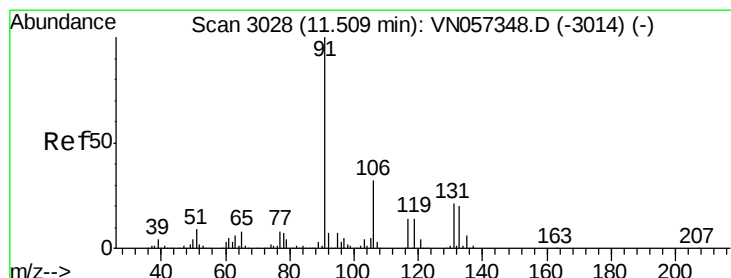
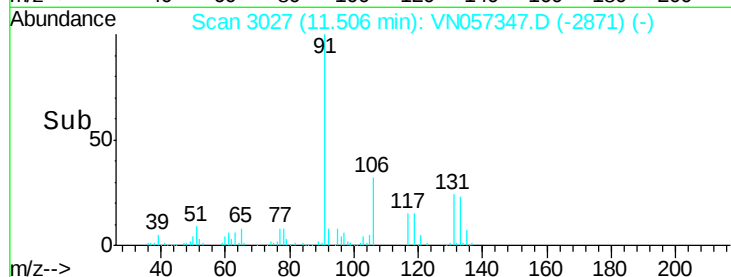
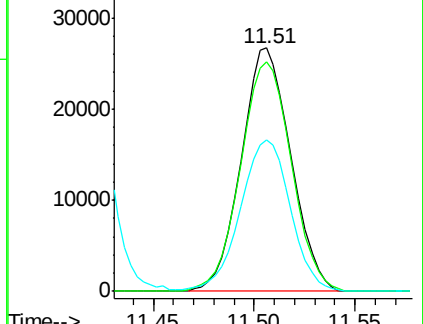
119 63.1 0.0 133.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 5.093 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057347.D

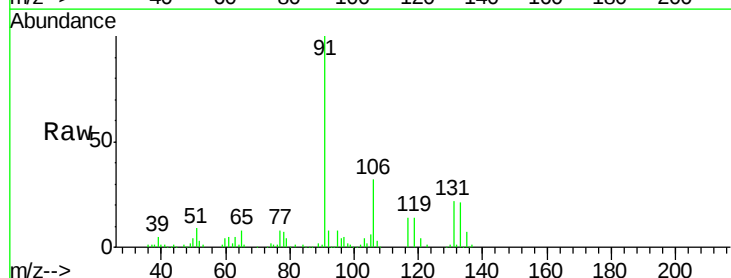
Acq: 16 Aug 2019 11:29

Tgt Ion: 91 Resp: 196533

Ion Ratio Lower Upper

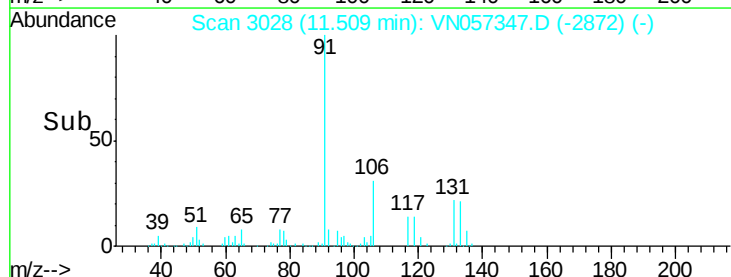
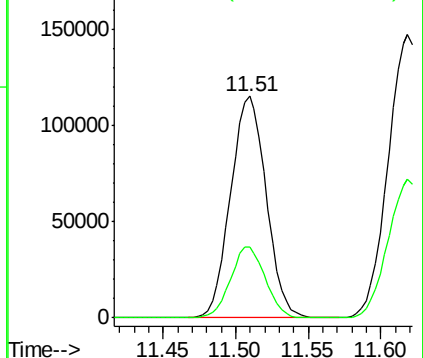
91 100

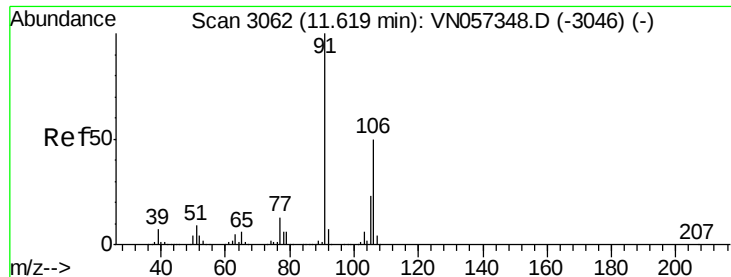
106 32.2 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 9.729 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

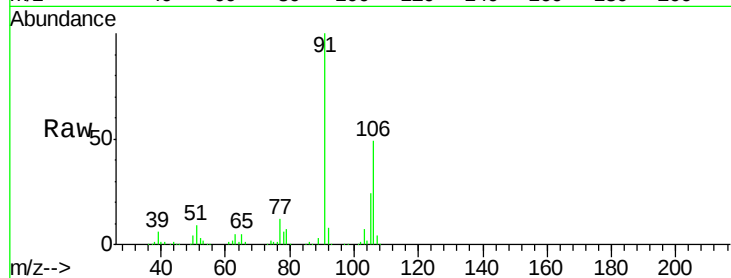
VSTDIC005

Tot Ion:106 Resp: 140526

Ion Ratio Lower Upper

106 100

91 199.7 161.8 242.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

150000

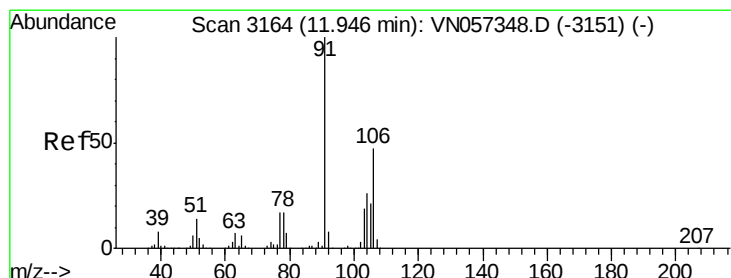
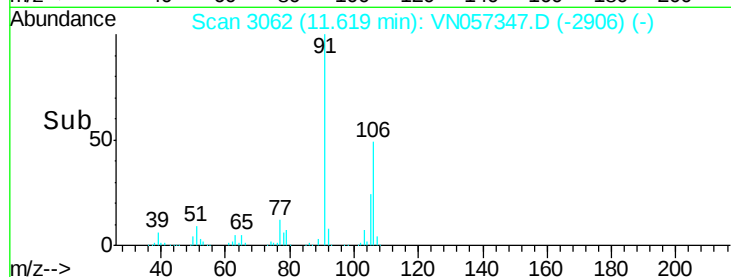
100000

50000

0

11.55 11.60 11.65 11.70

Time-->



#68

o-Xylene

Concen: 4.966 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN057347.D

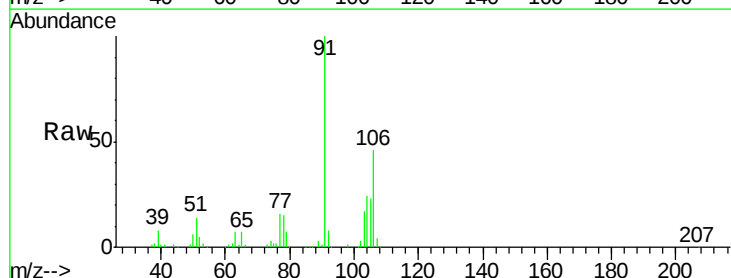
Acq: 16 Aug 2019 11:29

Tgt Ion:106 Resp: 70122

Ion Ratio Lower Upper

106 100

91 206.4 108.1 324.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

100000

80000

60000

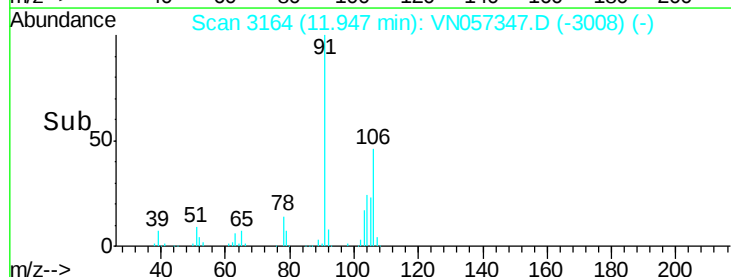
40000

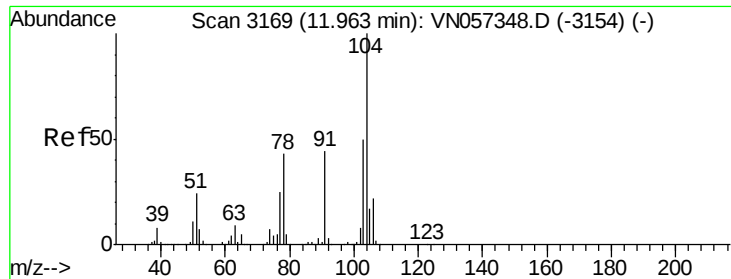
20000

0

11.90 11.95 12.00

Time-->





#69

Stvrene

Concen: 4.334 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

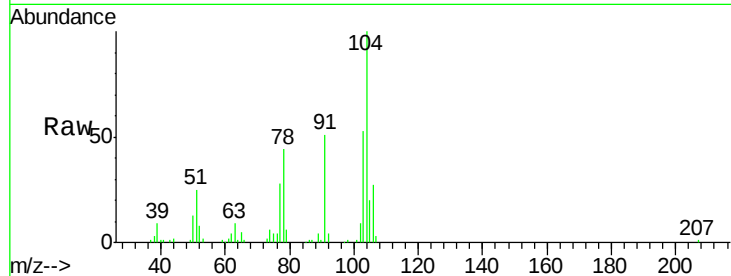
Tot Ion:104 Resp: 98310

Ion Ratio Lower Upper

104 100

78 49.7 38.7 58.1

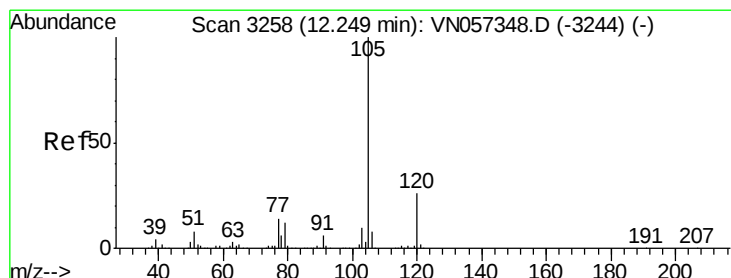
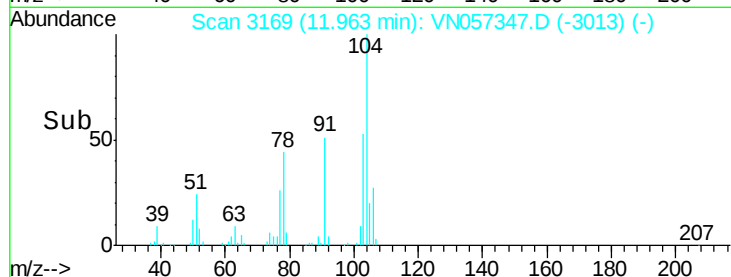
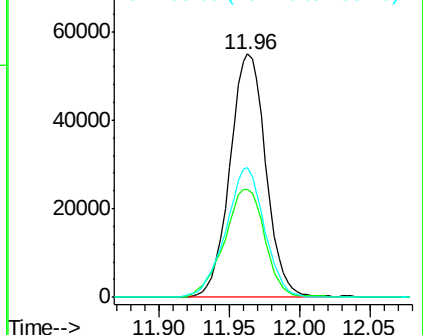
103 57.1 45.0 67.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 4.887 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057347.D

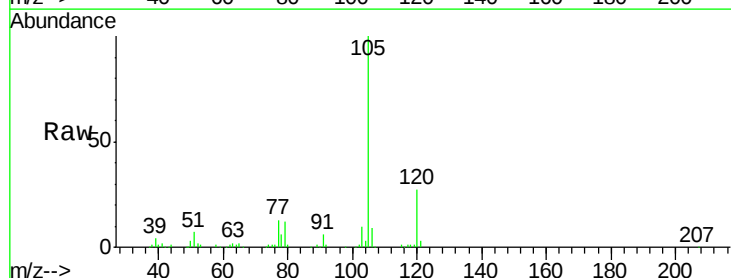
Acq: 16 Aug 2019 11:29

Tgt Ion:105 Resp: 184994

Ion Ratio Lower Upper

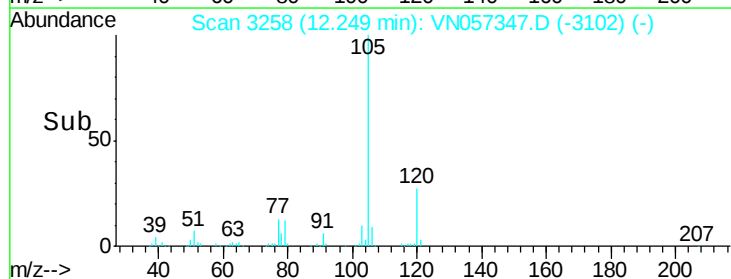
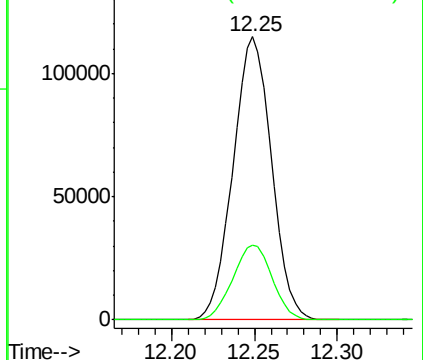
105 100

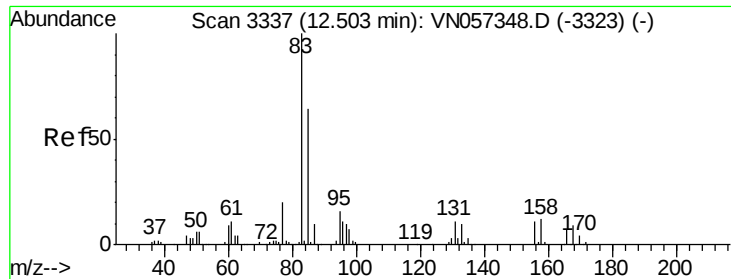
120 27.0 18.6 34.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

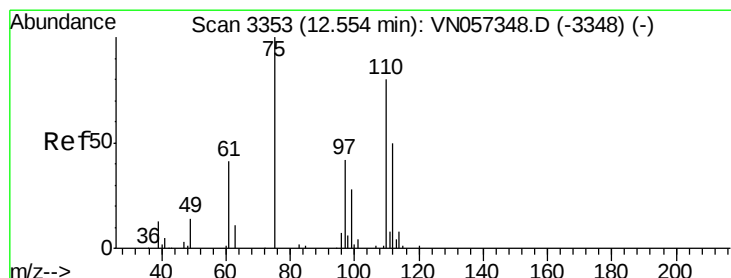
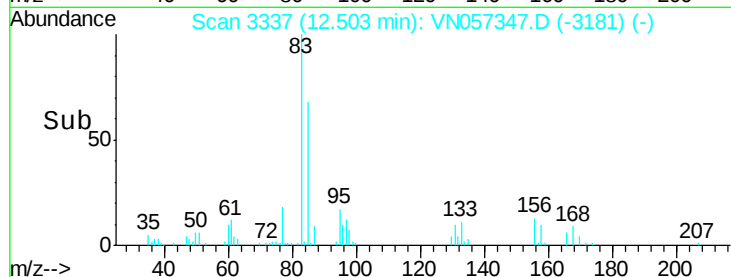
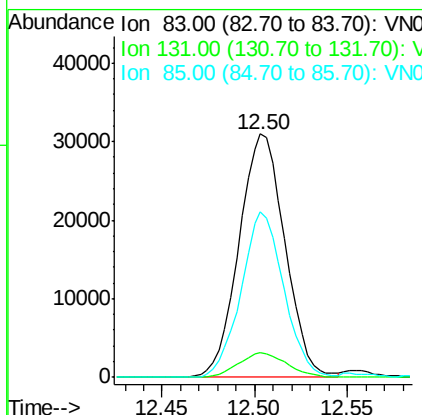
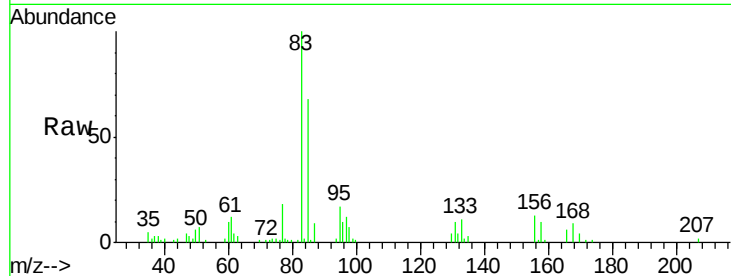




#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.147 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

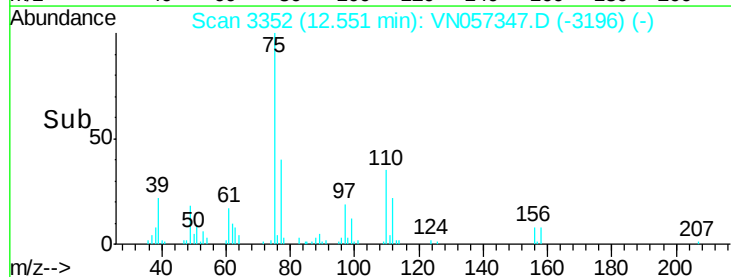
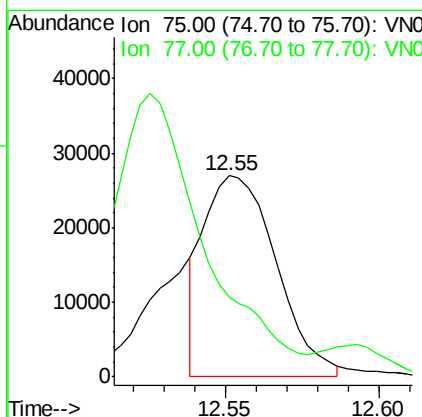
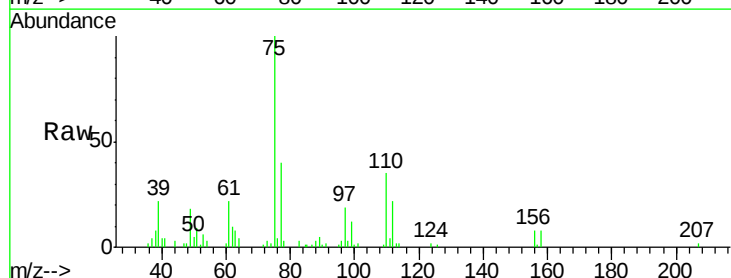
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

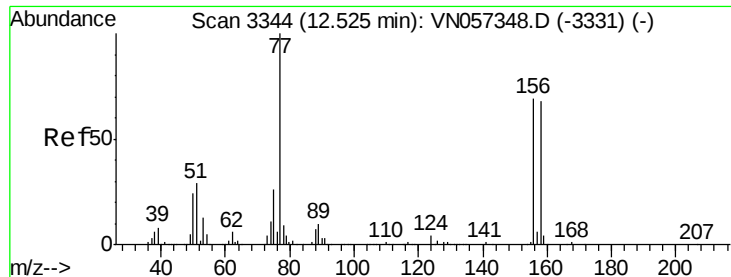
Tot Ion	83	Resp	53373
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.1	15.3
85	63.3	31.9	95.7



#72
 1,2,3-Trichloropropane
 Concen: 5.069 ug/l m
 RT: 12.55 min Scan# 3352
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion	75	Resp	44356
Ion Ratio	Lower	Upper	
75	100		
77	181.4	0.0	352.2





#73

Bromobenzene

Concen: 4.728 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

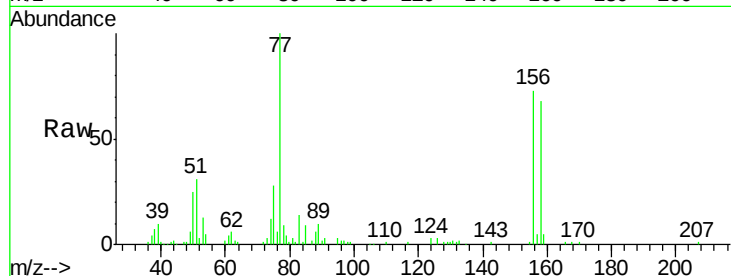
Tot Ion:156 Resp: 47426

Ion Ratio Lower Upper

156 100

77 169.7 0.0 381.8

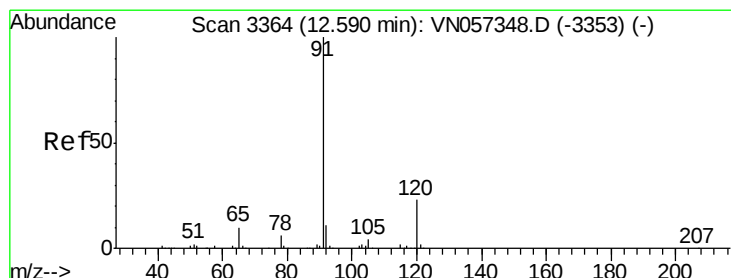
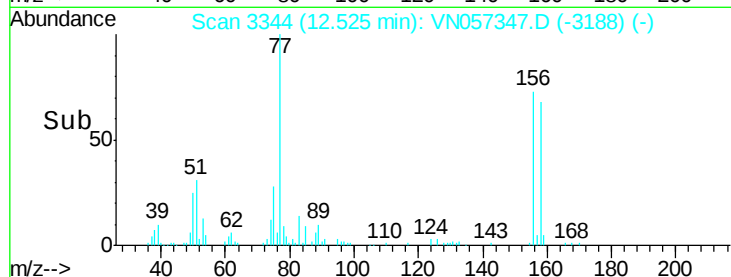
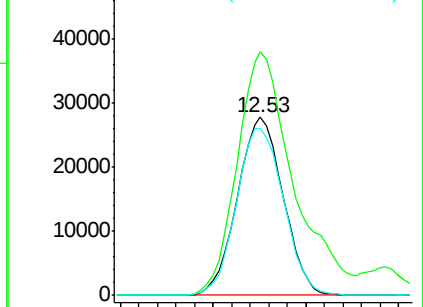
158 97.0 0.0 195.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.402 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057347.D

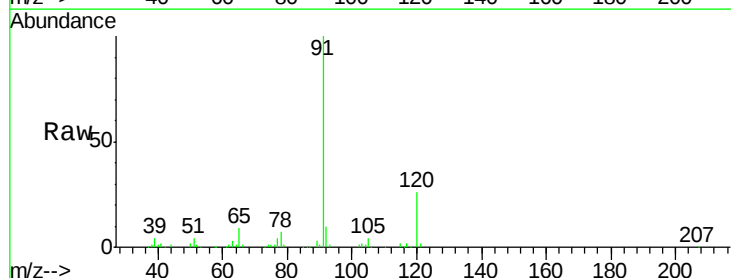
Acq: 16 Aug 2019 11:29

Tgt Ion: 91 Resp: 173094

Ion Ratio Lower Upper

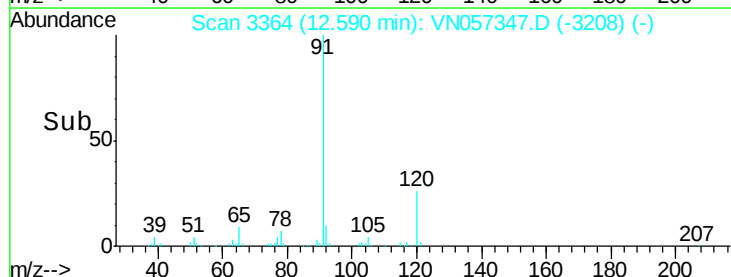
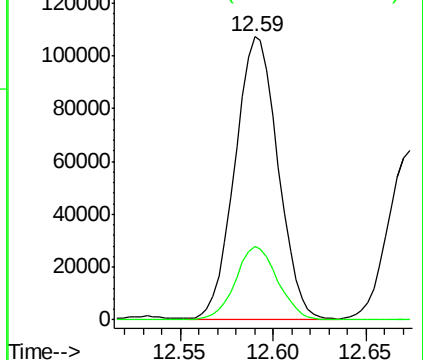
91 100

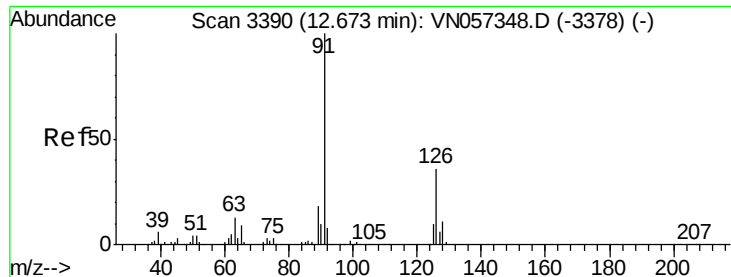
120 25.4 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.583 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

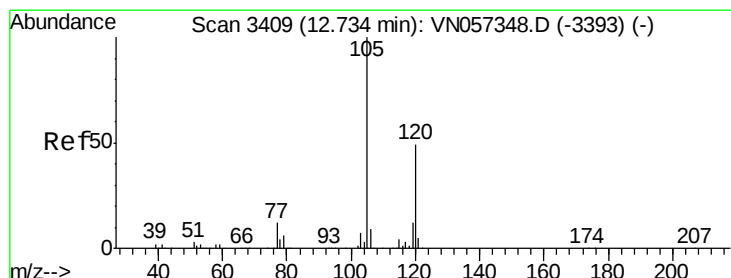
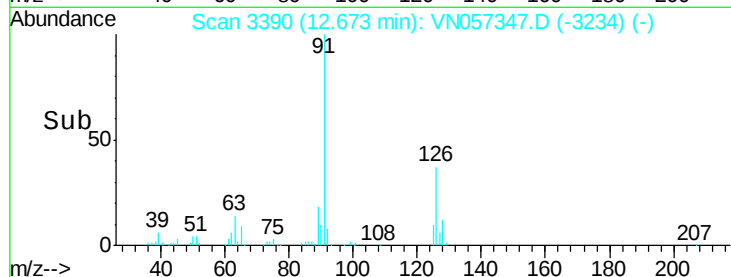
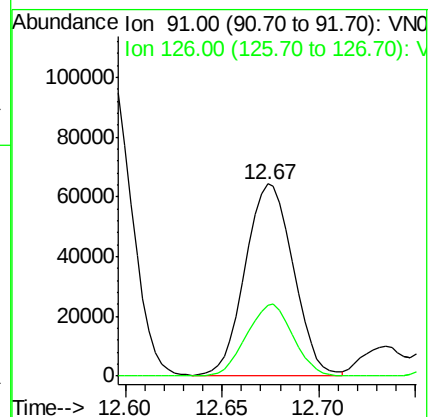
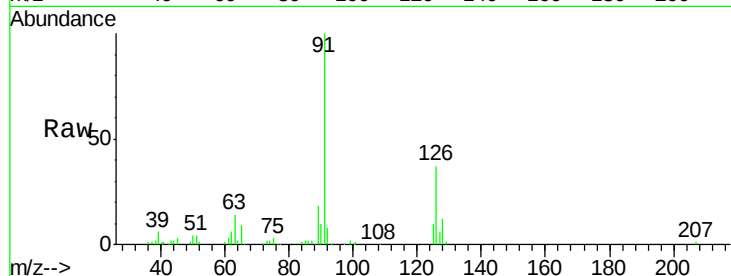
VSTDIC005

Tot Ion: 91 Resp: 111823

Ion Ratio Lower Upper

91 100

126 36.0 0.0 69.8



#76

1,3,5-Trimethylbenzene

Concen: 4.622 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057347.D

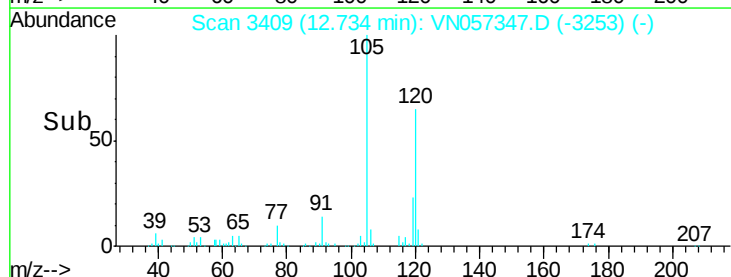
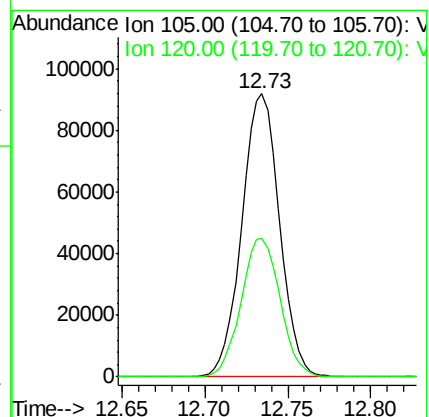
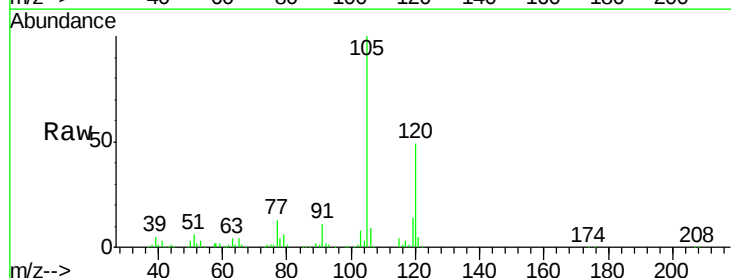
Acq: 16 Aug 2019 11:29

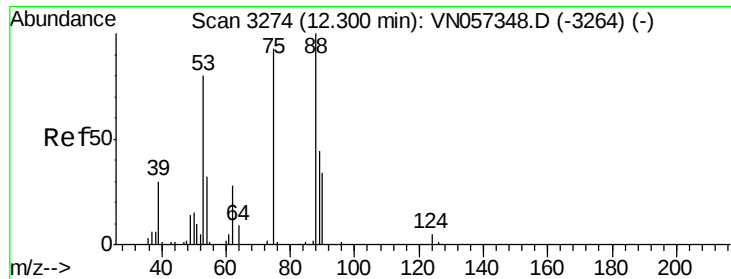
Tgt Ion: 105 Resp: 145520

Ion Ratio Lower Upper

105 100

120 50.6 0.0 97.6





#77

t-1,4-Dichloro-2-butene

Concen: 4.264 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

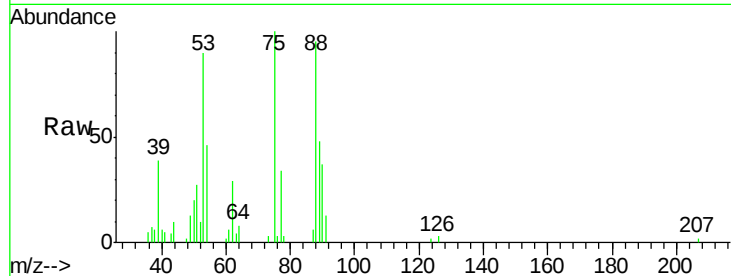
Tot Ion: 75 Resp: 14319

Ion Ratio Lower Upper

75 100

53 88.0 48.6 145.8

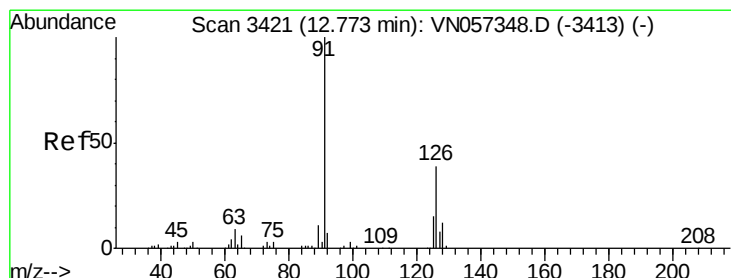
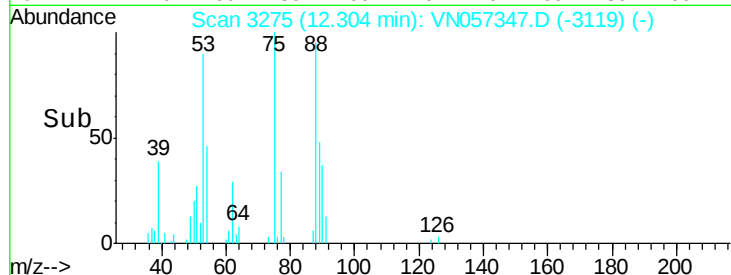
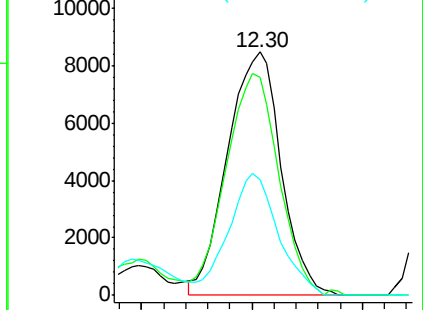
89 47.7 21.3 64.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 4.320 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN057347.D

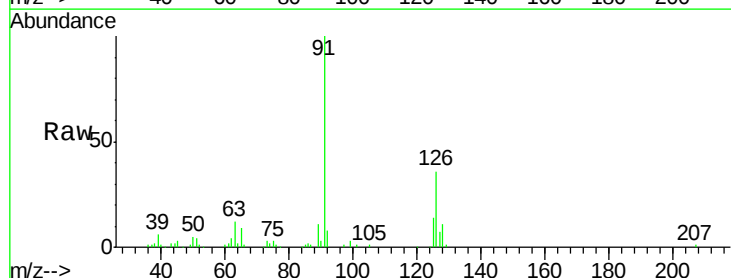
Acq: 16 Aug 2019 11:29

Tgt Ion: 91 Resp: 98621

Ion Ratio Lower Upper

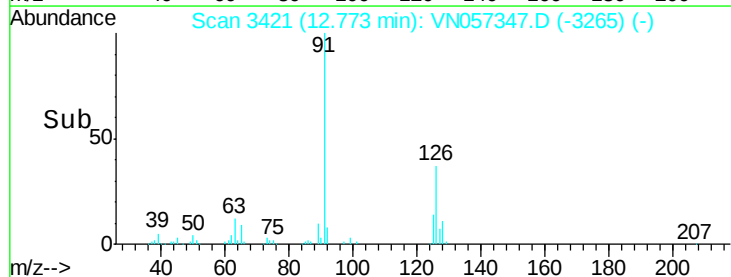
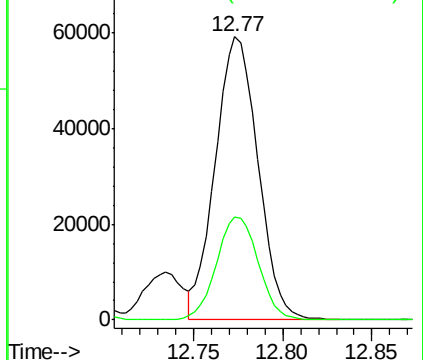
91 100

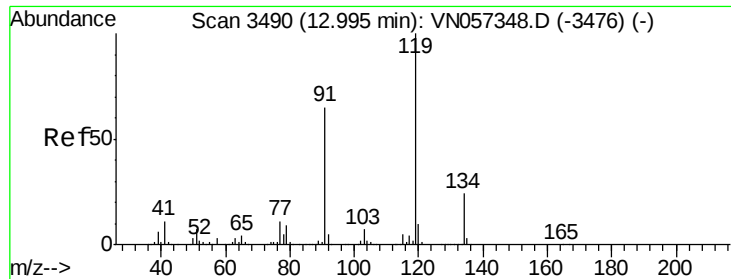
126 35.5 0.0 69.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

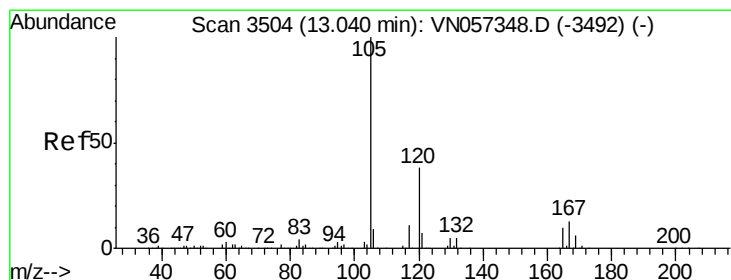
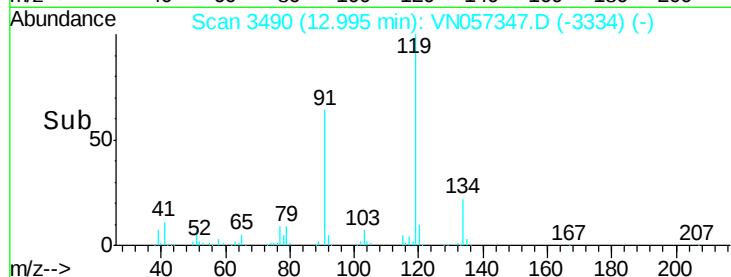
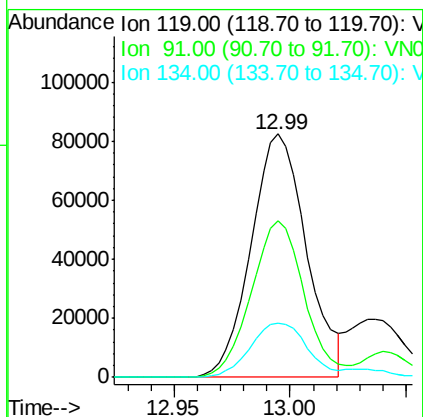
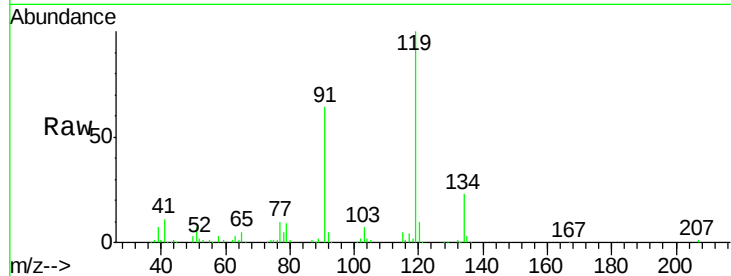




#79
tert-butylbenzene
Concen: 4.897 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

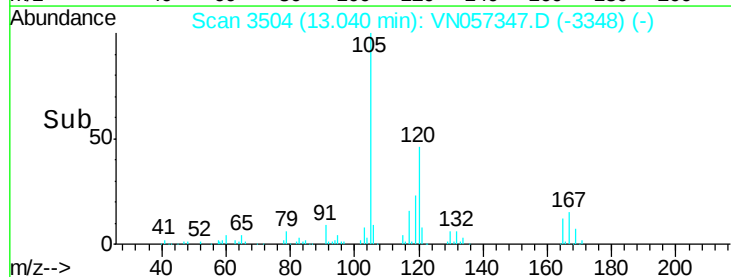
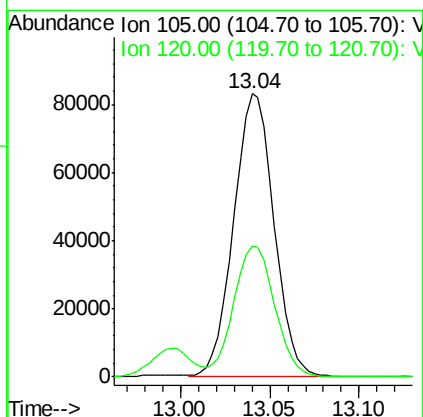
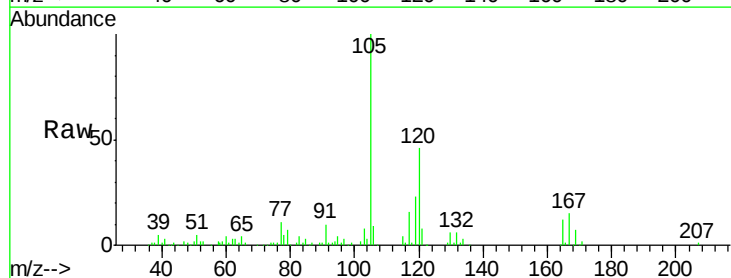
Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

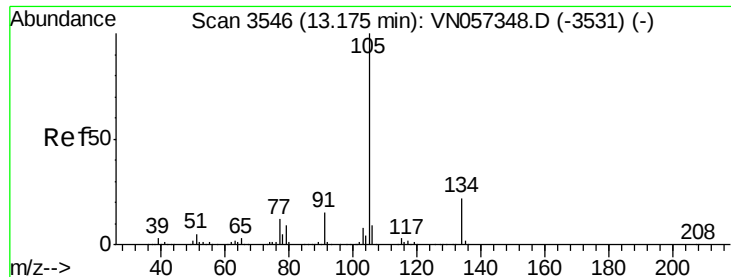
Tot Ion:119 Resp: 137396
Ion Ratio Lower Upper
119 100
91 61.3 0.0 125.4
134 22.9 0.0 48.4



#80
1,2,4-Trimethylbenzene
Concen: 4.431 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN057347.D
Acq: 16 Aug 2019 11:29

Tgt Ion:105 Resp: 131602
Ion Ratio Lower Upper
105 100
120 47.0 0.0 91.2

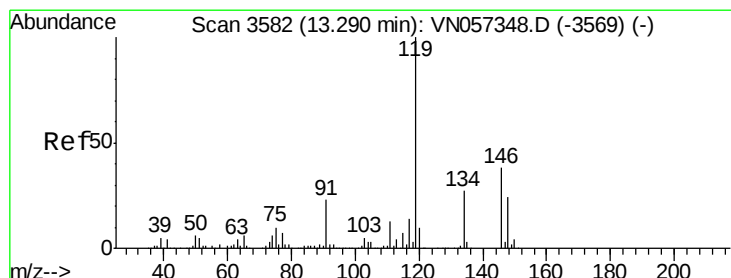
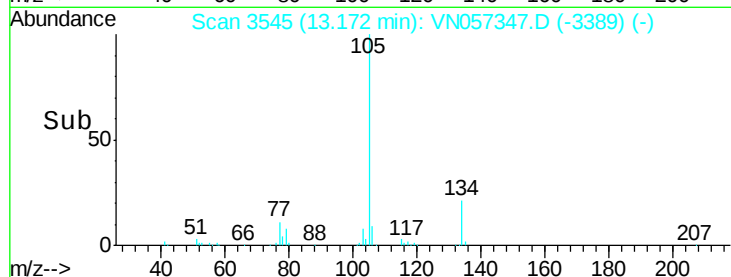
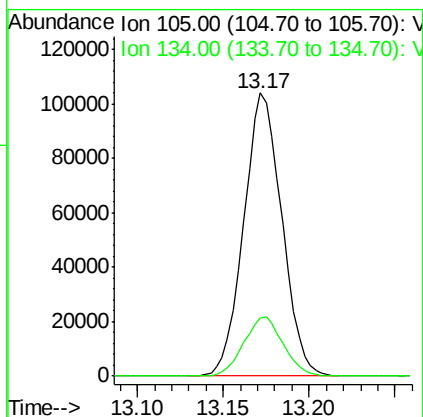
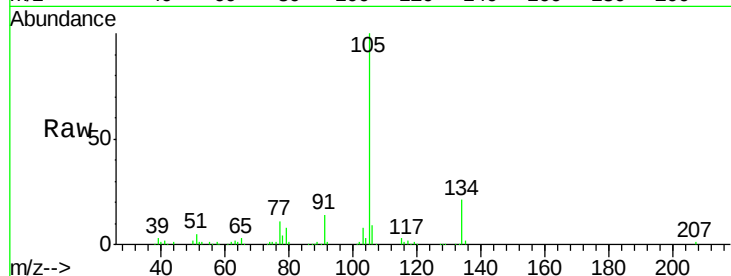




#81
 sec-Butylbenzene
 Concen: 4.619 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

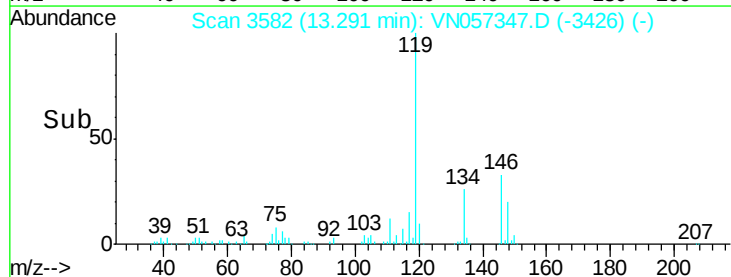
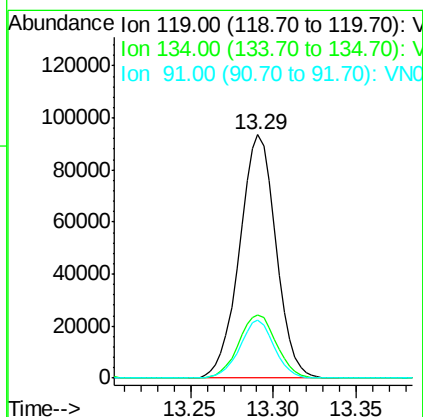
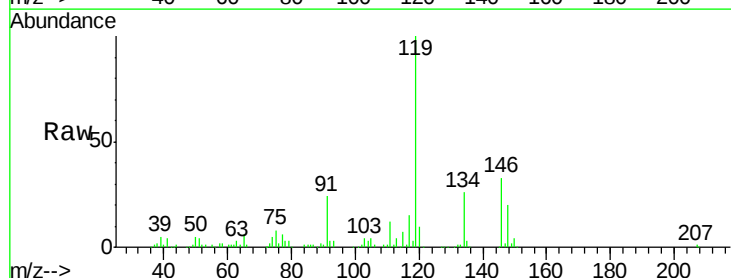
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

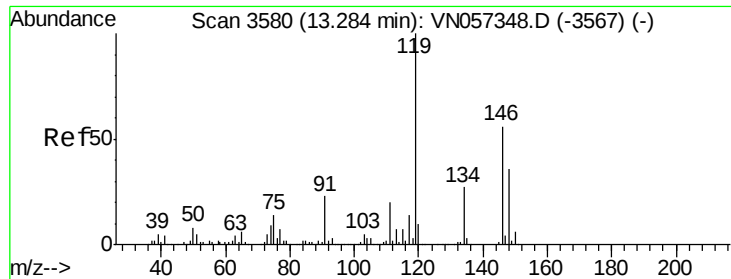
Tot Ion:105 Resp: 159736
 Ion Ratio Lower Upper
 105 100
 134 21.6 0.0 40.8



#82
 p-Isopropyltoluene
 Concen: 4.582 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion:119 Resp: 141956
 Ion Ratio Lower Upper
 119 100
 134 27.0 0.0 52.8
 91 22.7 0.0 45.4

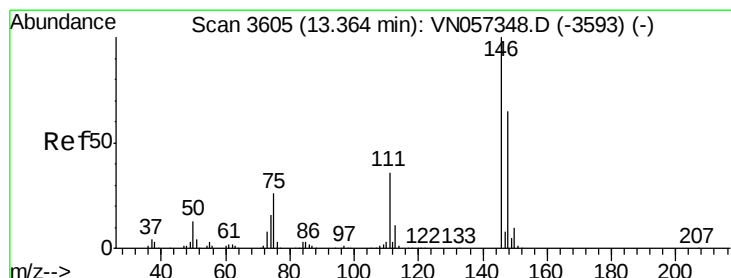
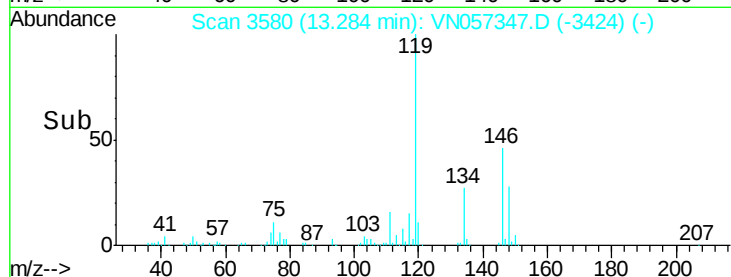
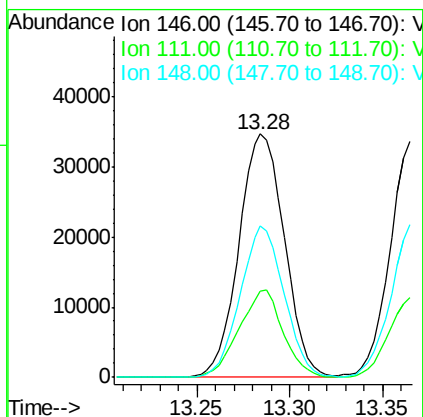
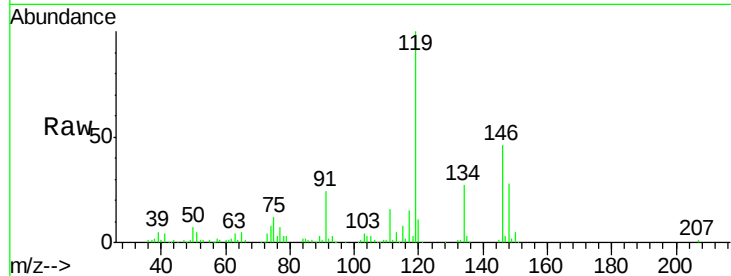




#83
 1,3-Dichlorobenzene
 Concen: 4.017 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

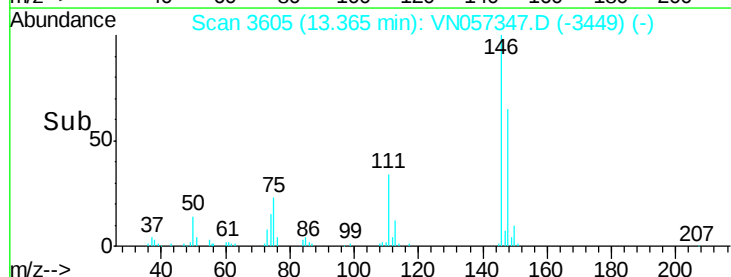
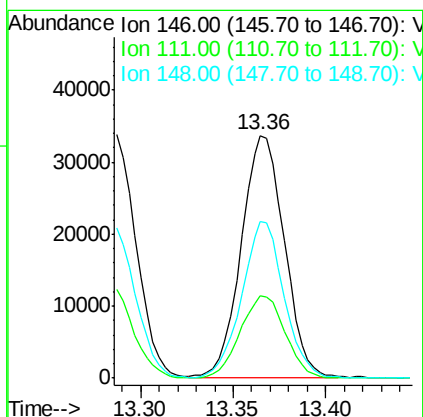
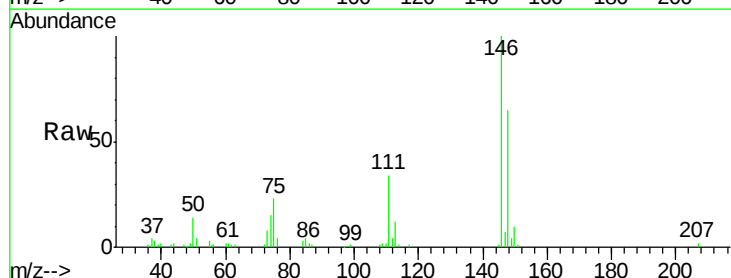
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

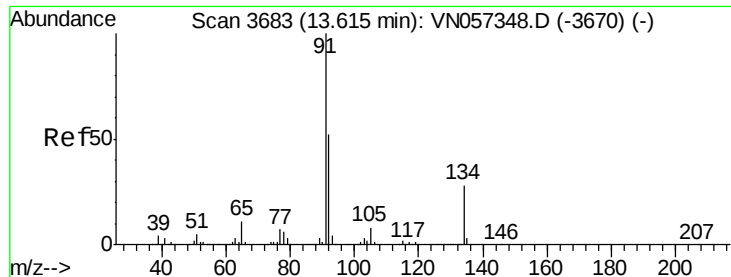
Tot Ion:146 Resp: 59032
 Ion Ratio Lower Upper
 146 100
 111 34.7 18.7 56.1
 148 59.9 31.8 95.4



#84
 1,4-Dichlorobenzene
 Concen: 3.978 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion:146 Resp: 54557
 Ion Ratio Lower Upper
 146 100
 111 35.2 17.8 53.4
 148 63.1 31.9 95.5





#85

n-Butylbenzene

Concen: 3.908 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

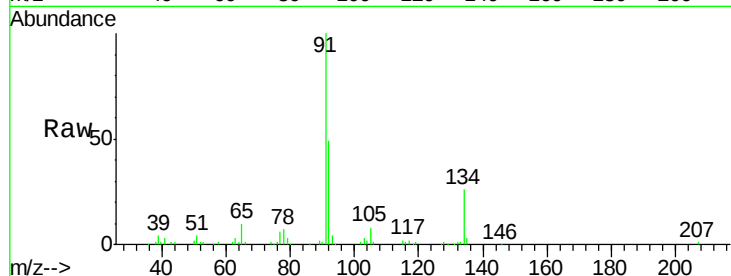
Tot Ion: 91 Resp: 90044

Ion Ratio Lower Upper

91 100

92 51.5 0.0 104.0

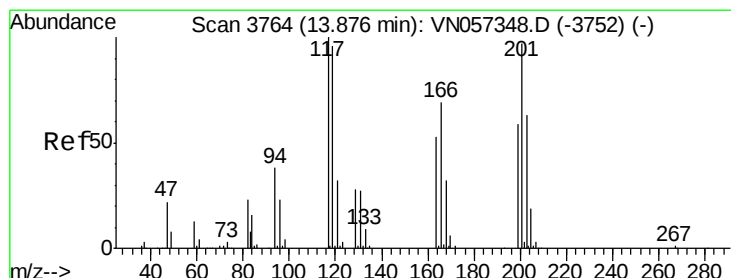
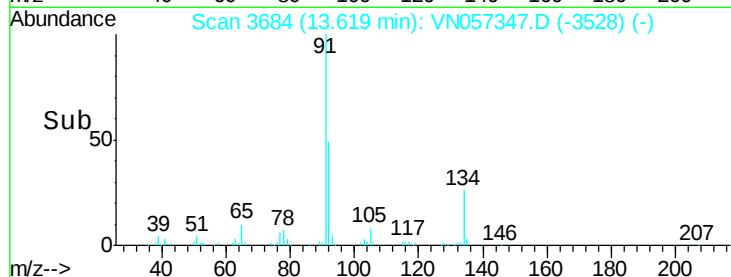
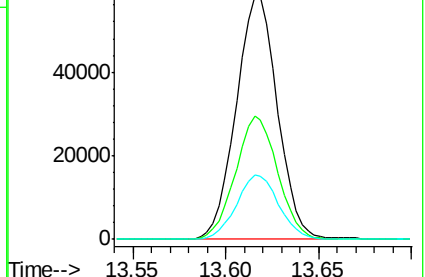
134 27.0 0.0 53.2



Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3670) (-)

Ion 92.00 (91.70 to 92.70): VN057348.D (-3670) (-)

Ion 134.00 (133.70 to 134.70): VN057348.D (-3670) (-)



#86

Hexachloroethane

Concen: 4.894 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. 0.00 min

Lab File: VN057347.D

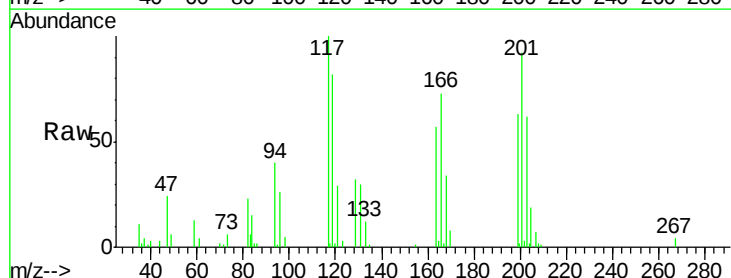
Acq: 16 Aug 2019 11:29

Tgt Ion: 117 Resp: 29187

Ion Ratio Lower Upper

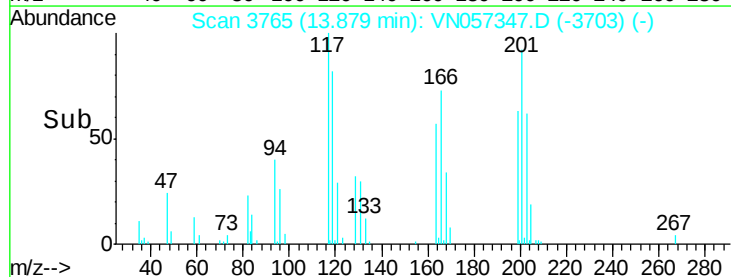
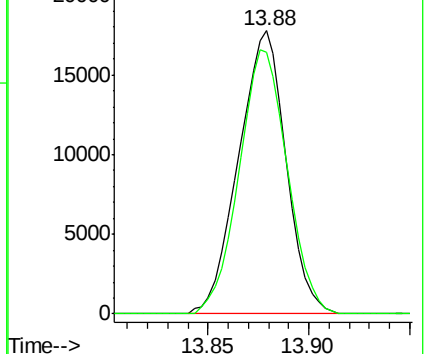
117 100

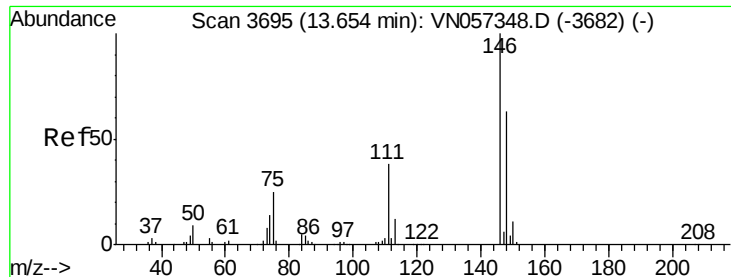
201 94.7 45.6 136.7



Abundance Ion 117.00 (116.70 to 117.70): VN057348.D (-3752) (-)

Ion 201.00 (200.70 to 201.70): VN057348.D (-3752) (-)





#87

1,2-Dichlorobenzene

Concen: 4.104 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

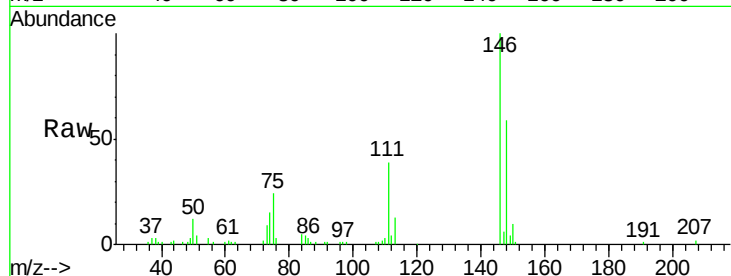
Tot Ion:146 Resp: 56971

Ion Ratio Lower Upper

146 100

111 38.3 19.7 59.0

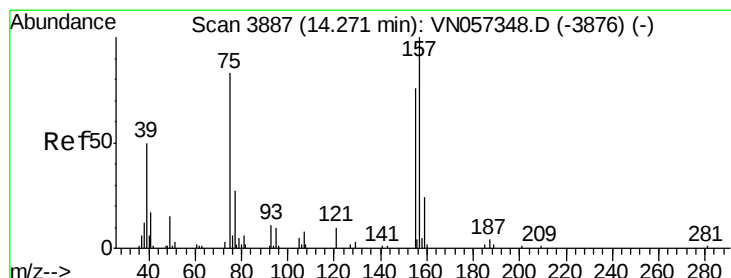
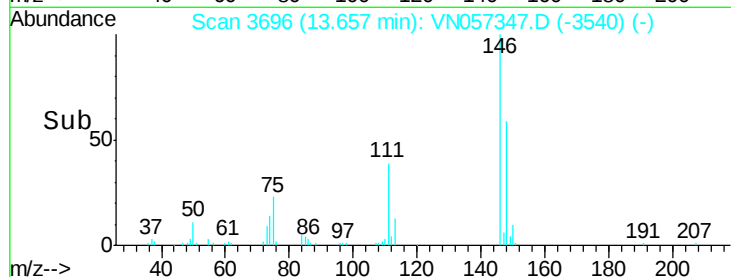
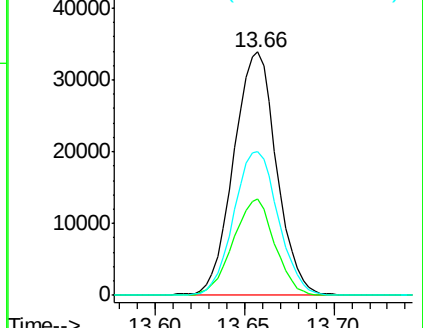
148 61.1 32.7 98.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 3.920 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

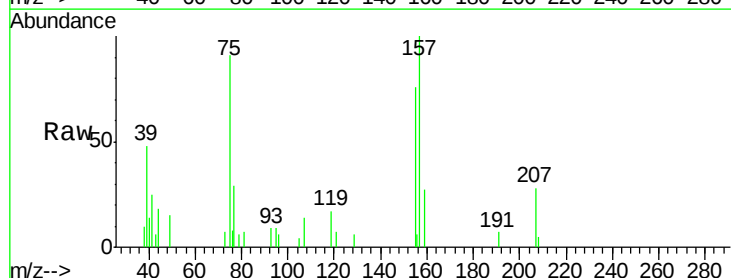
Tgt Ion: 75 Resp: 5449

Ion Ratio Lower Upper

75 100

155 89.3 78.6 117.8

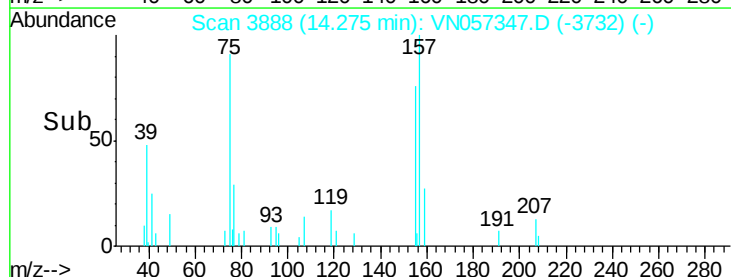
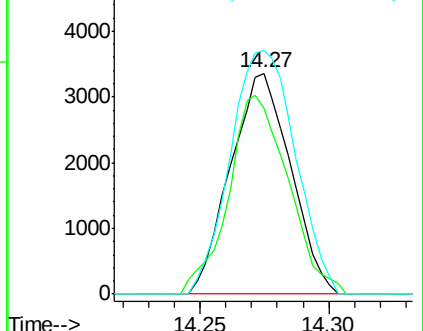
157 119.6 99.3 148.9

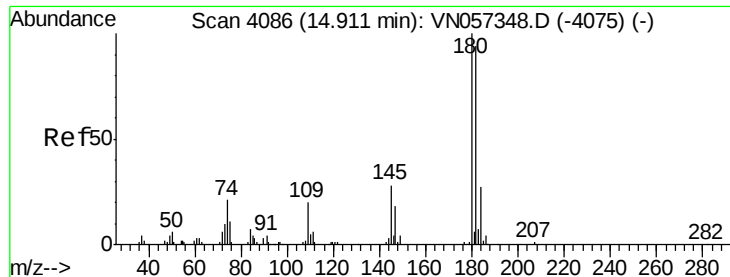


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

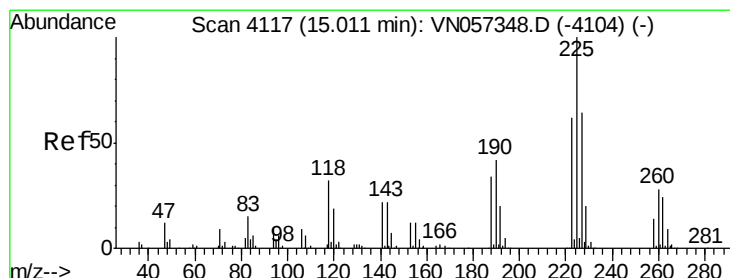
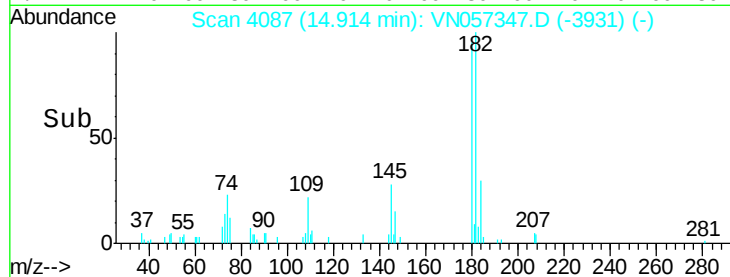
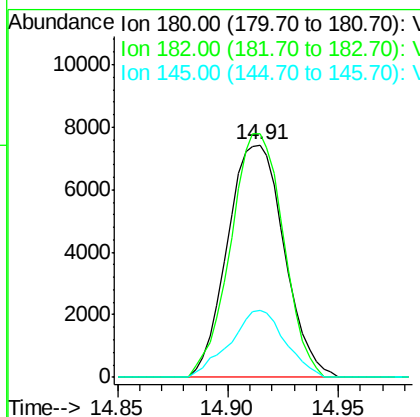
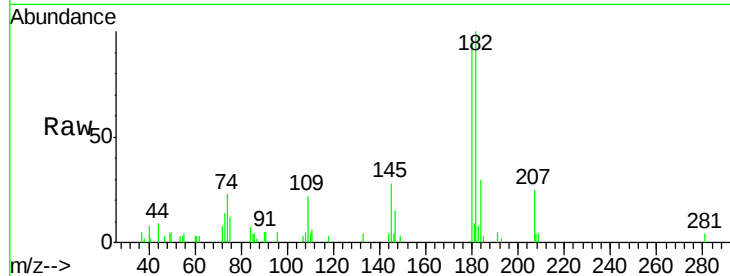




#89
 1,2,4-Trichlorobenzene
 Concen: 2.700 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

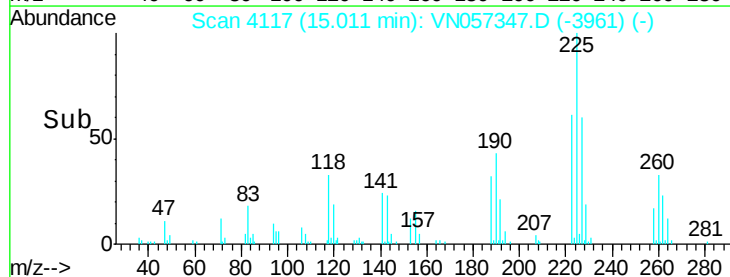
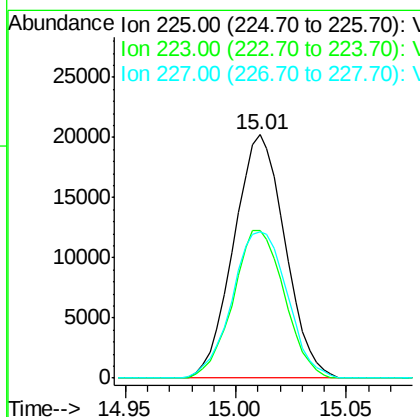
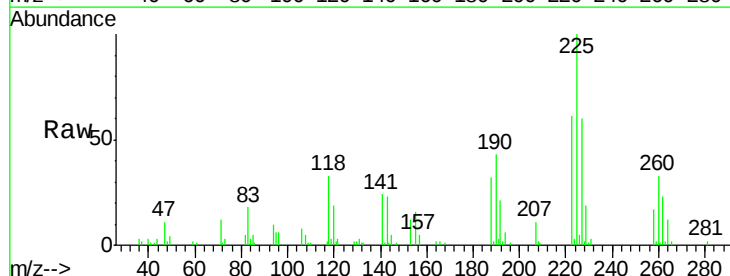
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

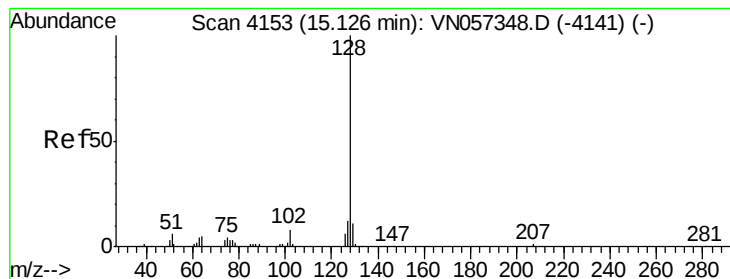
Tot Ion:180 Resp: 13261
 Ion Ratio Lower Upper
 180 100
 182 97.6 78.2 117.4
 145 28.1 23.2 34.8



#90
 Hexachlorobutadiene
 Concen: 5.211 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057347.D
 Acq: 16 Aug 2019 11:29

Tgt Ion:225 Resp: 32662
 Ion Ratio Lower Upper
 225 100
 223 60.6 0.0 124.6
 227 64.5 0.0 128.6





#91

Naphthalene

Concen: 2.640 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

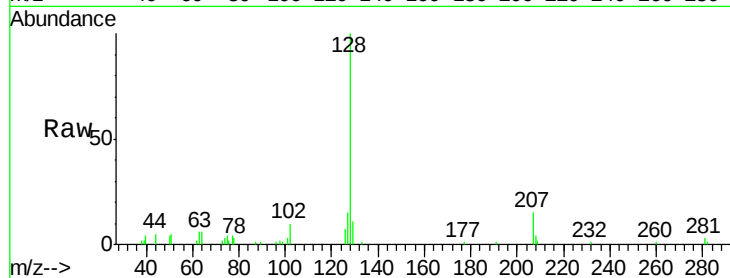
Tot Ion:128 Resp: 28022

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

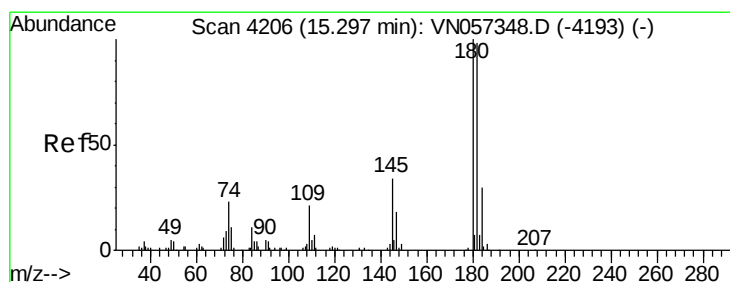
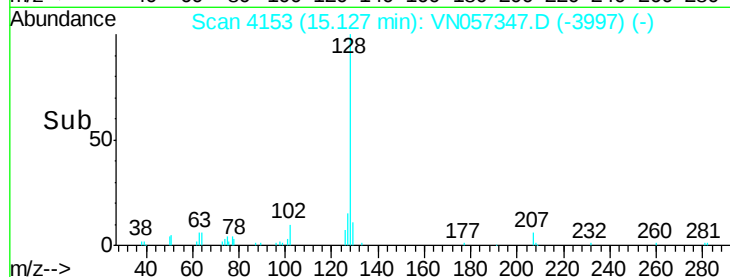
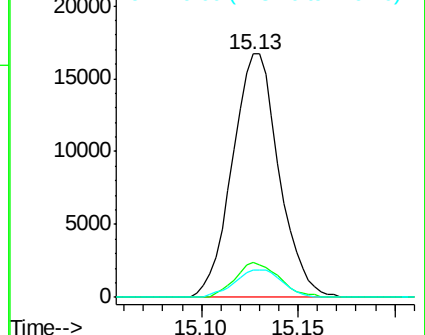
129 11.4 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 2.878 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN057347.D

Acq: 16 Aug 2019 11:29

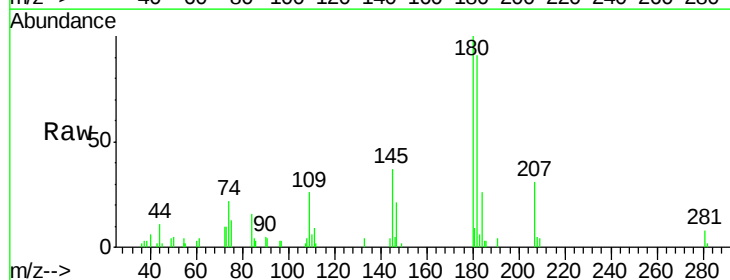
Tgt Ion:180 Resp: 13401

Ion Ratio Lower Upper

180 100

182 96.1 0.0 192.4

145 33.6 0.0 60.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

