

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081719\
 Data File : VN057357.D
 Acq On : 16 Aug 2019 15:53
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Aug 19 09:13:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 16 15:42:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	134405	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	738908	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	644988	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	264409	30.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.00%
60) 4-Bromofluorobenzene	12.40	95	266048	28.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.37%
63) Toluene-d8	10.08	98	893616	30.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	146910	21.160 ug/l	98
3) Chloromethane	2.06	50	165539	20.676 ug/l	98
4) Vinyl Chloride	2.18	62	162126	21.165 ug/l	100
5) Bromomethane	2.55	94	125916m	21.126 ug/l	
6) Chloroethane	2.70	64	109276	20.826 ug/l	98
7) Trichlorofluoromethane	3.02	101	251787	20.510 ug/l	100
8) Diethyl Ether	3.40	74	93447	20.684 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	154679	21.159 ug/l	97
10) 1,1-Dichloroethene	3.74	96	153037	21.109 ug/l	89
11) Methyl Iodide	3.95	142	248377	20.316 ug/l	99
12) Methyl Acetate	4.31	43	165650	20.323 ug/l	99
13) Acrolein	3.60	56	84205	109.248 ug/l	98
14) Acrylonitrile	4.97	53	337098	102.094 ug/l	99
15) Acetone	3.81	58	89413	91.897 ug/l	96
16) Carbon Disulfide	4.05	76	401535	20.262 ug/l	99
17) Allyl chloride	4.32	41	226225	21.364 ug/l	94
18) Methylene Chloride	4.54	84	170999	20.608 ug/l	96
19) trans-1,2-Dichloroethene	5.03	96	162579	20.709 ug/l	98
20) Diisopropyl ether	5.94	45	461168	20.914 ug/l	97
21) 1,1-Dichloroethane	5.84	63	282340	20.723 ug/l	98
22) cis-1,2-Dichloroethene	6.82	96	188128	20.679 ug/l	96
23) tert-Butyl Alcohol	4.75	59	118232	100.480 ug/l	100
24) Methyl tert-Butyl Ether	5.03	73	465779	20.936 ug/l	98
25) Chloroform	7.36	83	296552	20.825 ug/l	97
26) Cyclohexane	7.65	56	231566	20.447 ug/l #	93
29) 1,1-Dichloropropene	7.79	75	218091	20.290 ug/l	98
30) 2-Butanone	6.82	43	413894	97.600 ug/l	95
31) 2,2-Dichloropropane	6.81	77	225120	19.119 ug/l	99
32) 1,1,1-Trichloroethane	7.56	97	260115	20.471 ug/l	97
33) Carbon Tetrachloride	7.76	117	227783	20.132 ug/l	94
34) Benzene	8.03	78	669656	20.537 ug/l	99
35) Methacrylonitrile	7.18	41	98790m	17.341 ug/l	
36) 1,2-Dichloroethane	8.12	62	218361	20.605 ug/l	99
37) Trichloroethene	8.83	130	194876	20.531 ug/l	97
38) Methylcyclohexane	9.08	83	253178	19.889 ug/l	96
39) 1,2-Dichloropropane	9.11	63	172959	20.753 ug/l	100
40) Dibromomethane	9.20	93	115034	20.748 ug/l	95

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	226920	20.199	ug/l	99
42) Vinyl Acetate	5.88	43	1823264	102.179	ug/l	97
43) Ethyl Acetate	6.91	43	178305	20.493	ug/l	99
44) Isopropyl Acetate	8.16	43	291558	19.046	ug/l	92
45) 1,4-Dioxane	9.19	88	58783	407.288	ug/l	96
46) Methyl methacrylate	9.19	41	136581	19.893	ug/l	94
47) n-amyl Acetate	12.07	43	209148	18.487	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	241299	19.853	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	271822	20.087	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	166209	20.541	ug/l	99
51) Ethyl methacrylate	10.43	69	231724	19.755	ug/l	93
52) 1,3-Dichloropropane	10.71	76	274374	20.763	ug/l	100
53) Dibromochloromethane	10.90	129	189838	20.393	ug/l	99
54) 1,2-Dibromoethane	11.00	107	172656	20.261	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	240611	88.122	ug/l	97
56) Bromoform	12.13	173	136013	19.349	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	860987	102.472	ug/l	95
59) 2-Hexanone	10.75	43	591926	98.223	ug/l	96
61) Tetrachloroethene	10.63	164	192013	20.311	ug/l	97
62) Toluene	10.15	91	727840	20.459	ug/l	100
64) Chlorobenzene	11.43	112	451907	20.221	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	176554	20.324	ug/l	99
66) Ethyl Benzene	11.51	91	775954	19.964	ug/l	98
67) m/p-Xylenes	11.62	106	580378	39.897	ug/l	97
68) o-Xylene	11.95	106	283840	19.959	ug/l	99
69) Styrene	11.96	104	438540	19.195	ug/l	99
70) Isopropylbenzene	12.25	105	765535	20.079	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	215381	20.623	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	189834m	21.539	ug/l	
73) Bromobenzene	12.53	156	191829	18.987	ug/l	93
74) n-propylbenzene	12.59	91	742389	18.746	ug/l	98
75) 2-Chlorotoluene	12.67	91	479759	19.522	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	620900	19.581	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	63906	18.896	ug/l	87
78) 4-Chlorotoluene	12.77	91	423242	18.407	ug/l	99
79) tert-butylbenzene	12.99	119	557153	19.718	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	576699	19.281	ug/l	99
81) sec-Butylbenzene	13.17	105	647753	18.597	ug/l	99
82) p-Isopropyltoluene	13.29	119	569950	18.265	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	261603	17.677	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	238281	17.249	ug/l	98
85) n-Butylbenzene	13.62	91	421760	18.177	ug/l	99
86) Hexachloroethane	13.88	117	114743	19.105	ug/l	90
87) 1,2-Dichlorobenzene	13.65	146	262087	18.746	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	25746	18.392	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	59044	11.936	ug/l	98
90) Hexachlorobutadiene	15.01	225	116914	18.520	ug/l	97
91) Naphthalene	15.13	128	119543	11.181	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	61145	13.037	ug/l	99

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QLast Update : Fri Aug 16 15:42:00 2019
Response via : Initial Calibration

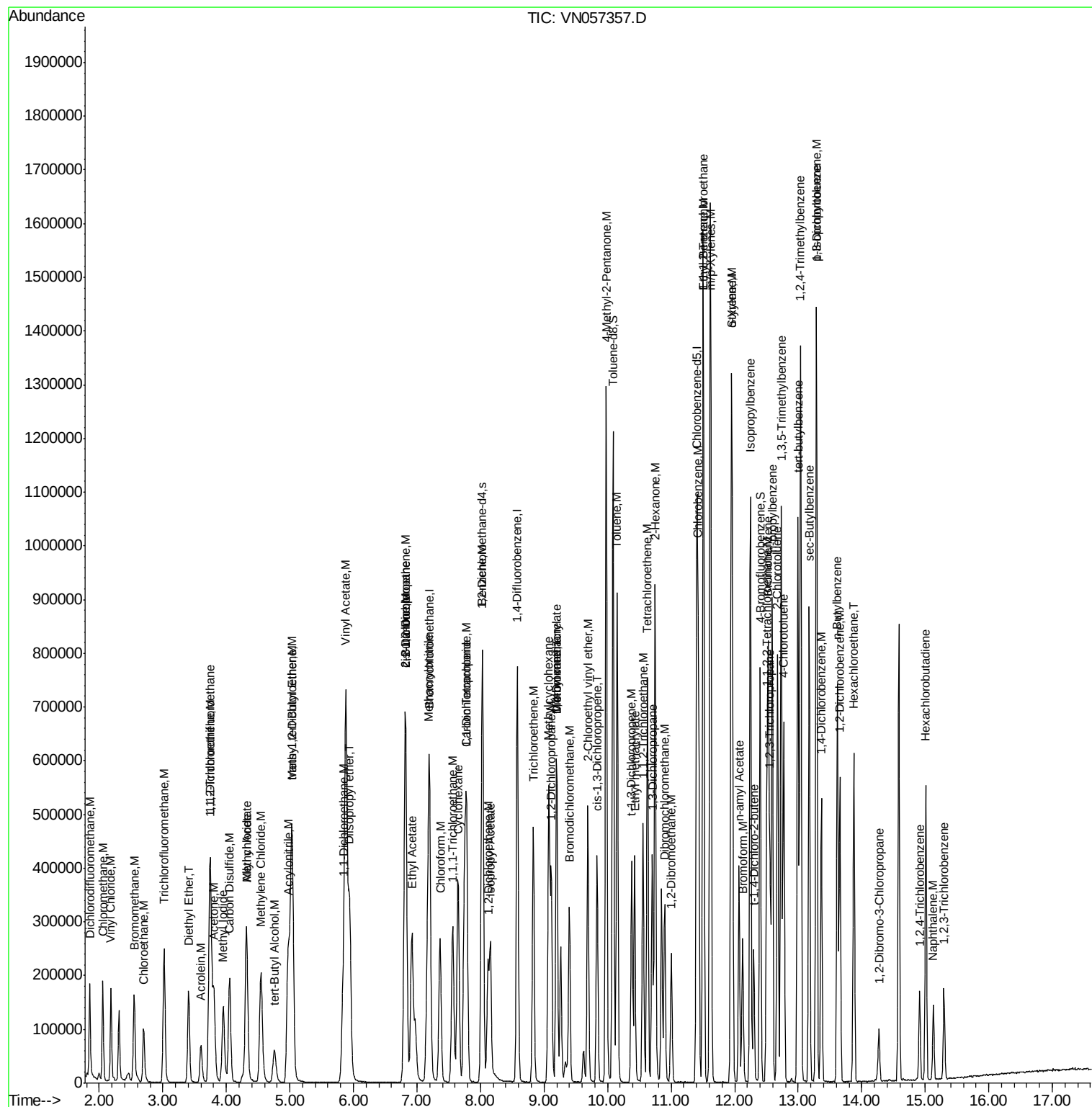
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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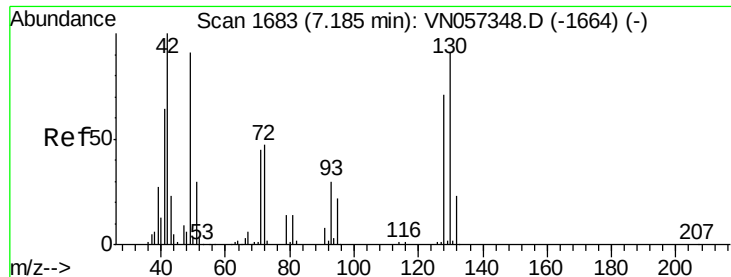
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: Aug 19 09:13:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 16 15:42:00 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

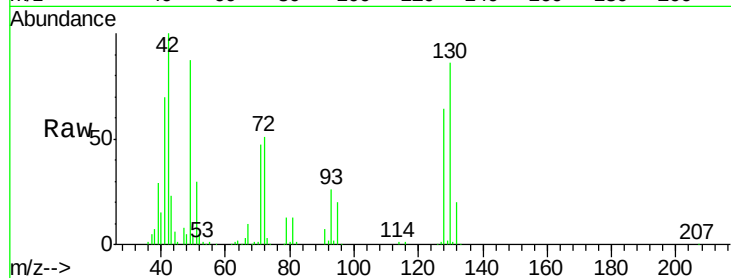
Tot Ion:128 Resp: 134405

Ion Ratio Lower Upper

128 100

49 137.9 0.0 390.5

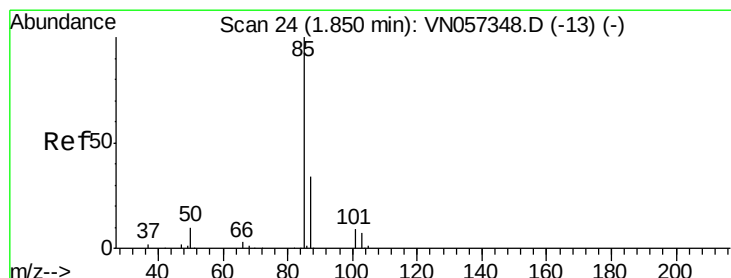
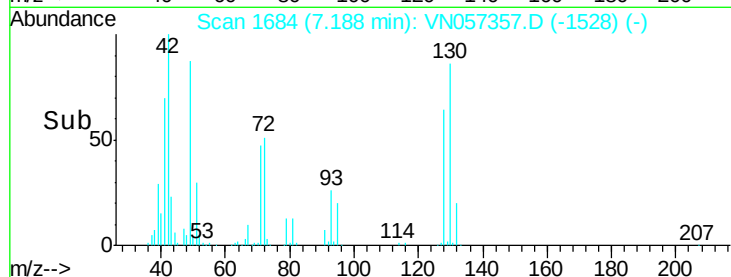
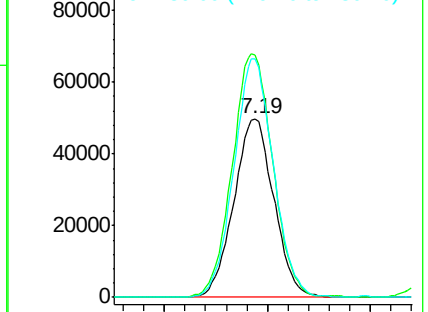
130 131.5 0.0 316.5



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: 21.160 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN057357.D

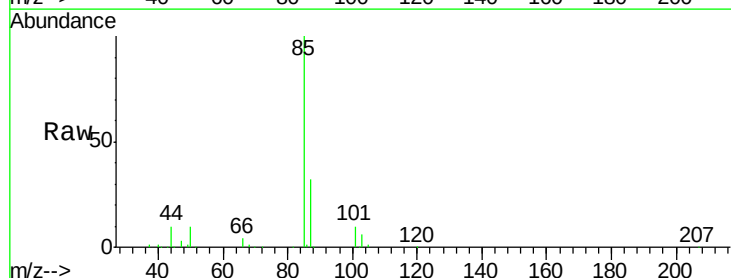
Acq: 16 Aug 2019 15:53

Tgt Ion: 85 Resp: 146910

Ion Ratio Lower Upper

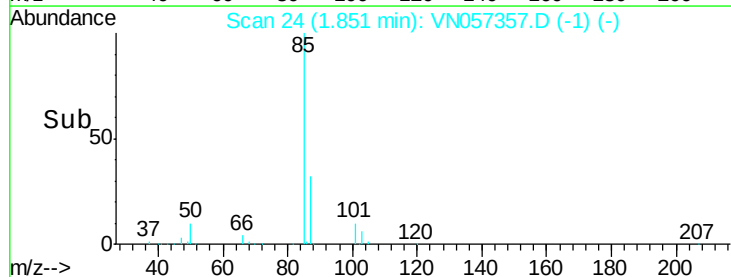
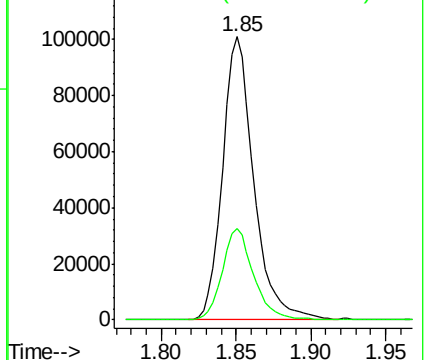
85 100

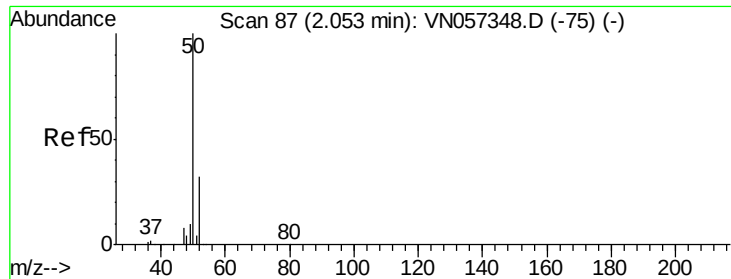
87 32.5 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 20.676 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

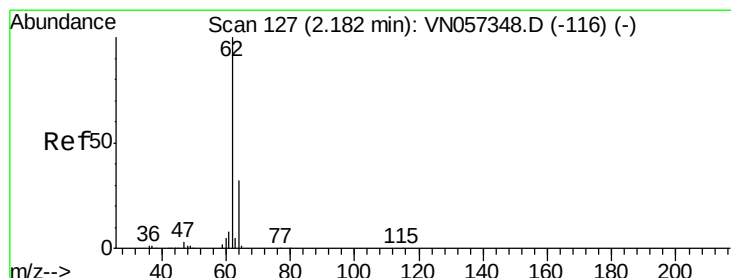
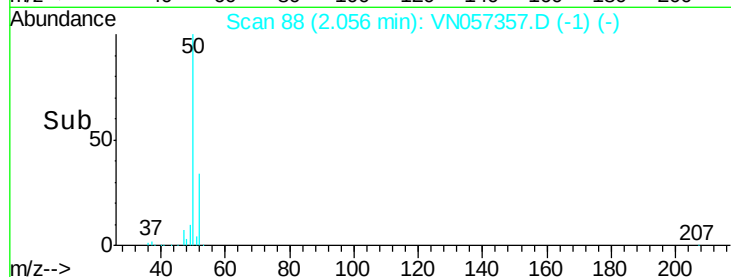
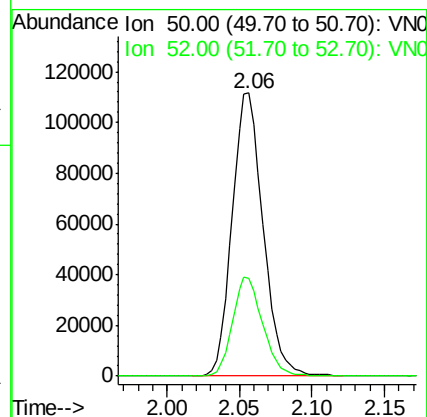
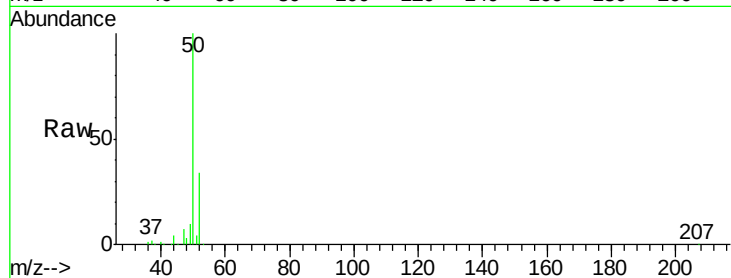
VSTDCCC020EC

Tot Ion: 50 Resp: 165539

Ion Ratio Lower Upper

50 100

52 34.5 26.5 39.7



#4

Vinyl Chloride

Concen: 21.165 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN057357.D

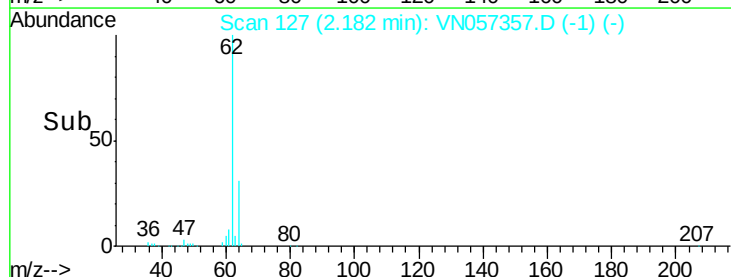
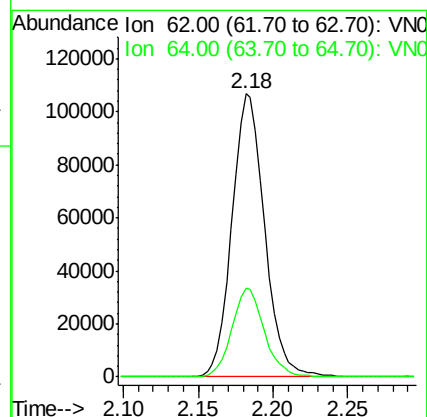
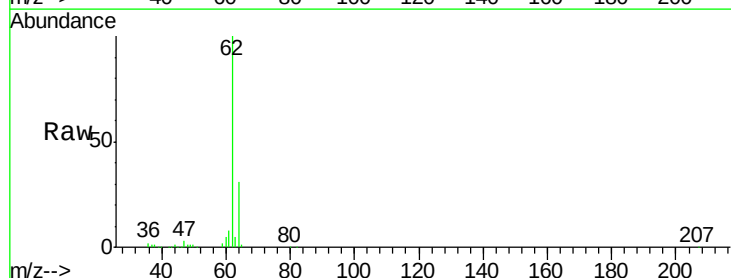
Acq: 16 Aug 2019 15:53

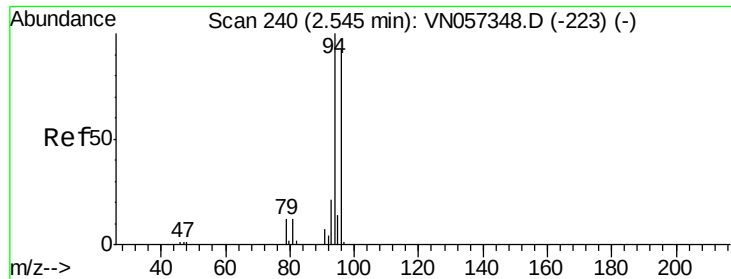
Tgt Ion: 62 Resp: 162126

Ion Ratio Lower Upper

62 100

64 31.3 25.0 37.4





#5

Bromomethane

Concen: 21.126 ug/l m

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

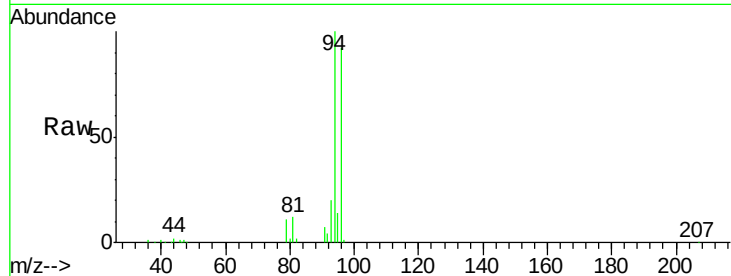
VSTDCCC020EC

Tot Ion: 94 Resp: 125916

Ion Ratio Lower Upper

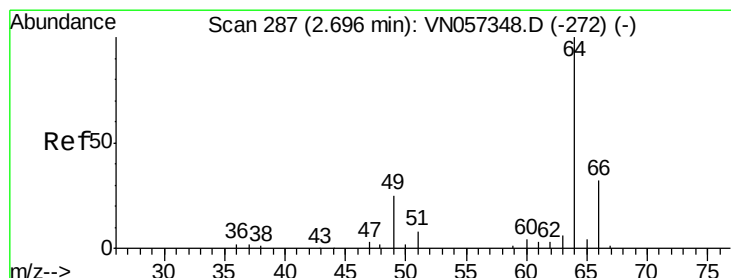
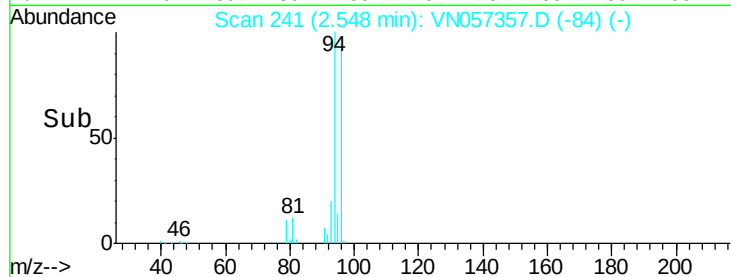
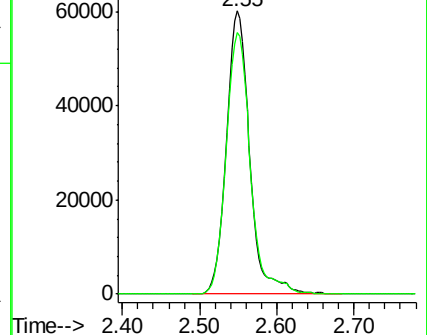
94 100

96 92.4 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.826 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.00 min

Lab File: VN057357.D

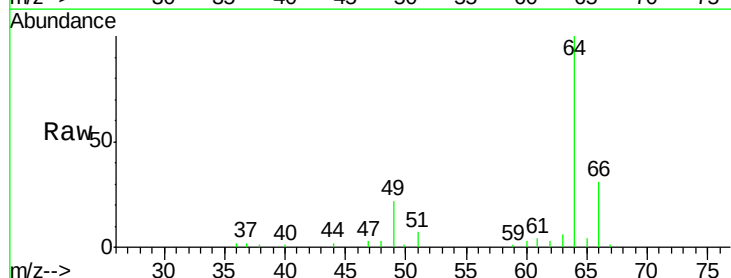
Acq: 16 Aug 2019 15:53

Tgt Ion: 64 Resp: 109276

Ion Ratio Lower Upper

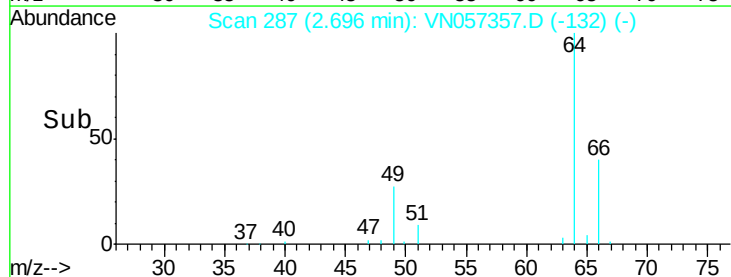
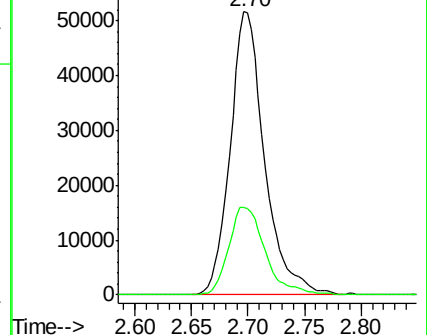
64 100

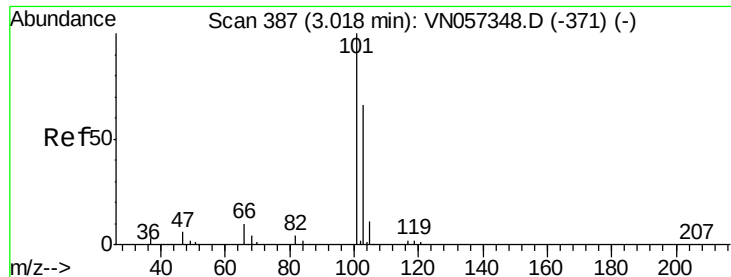
66 31.2 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



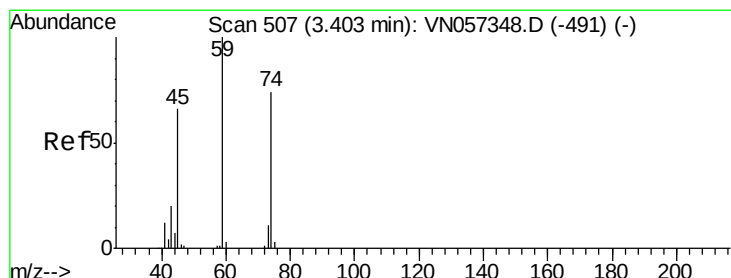
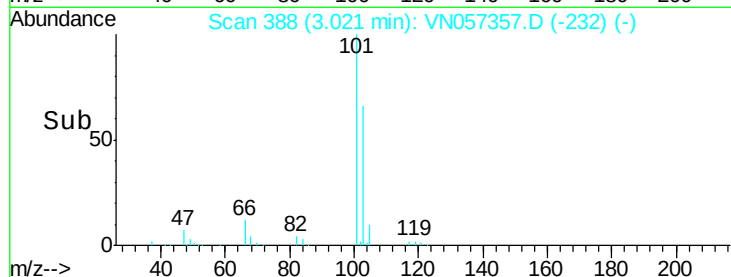
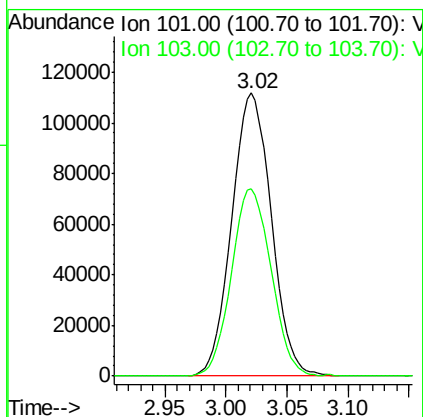
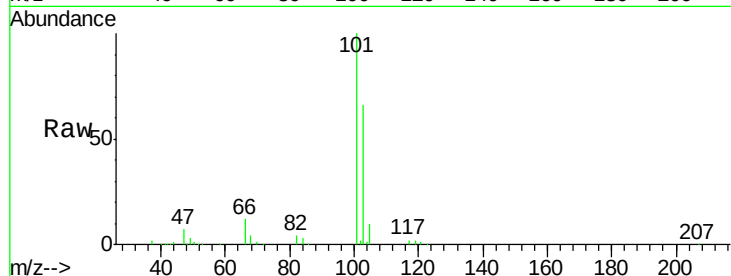


#7

Trichlorofluoromethane
 Concen: 20.510 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

Instrument :
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 VSTDCCC020EC

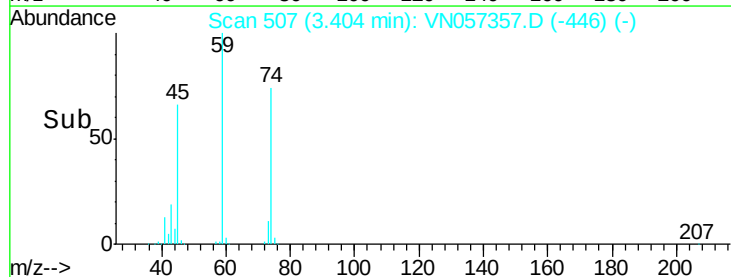
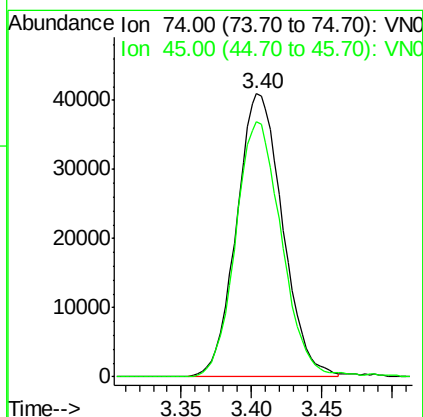
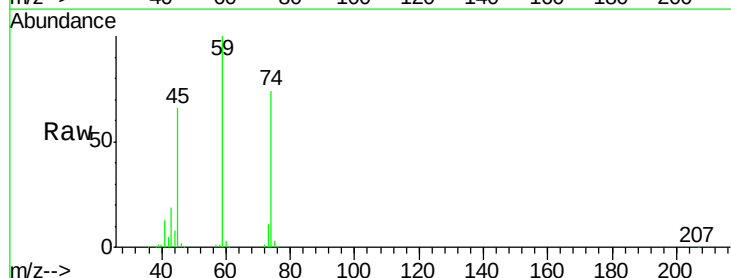
Tot Ion:101 Resp: 251787
 Ion Ratio Lower Upper
 101 100
 103 66.2 52.8 79.2

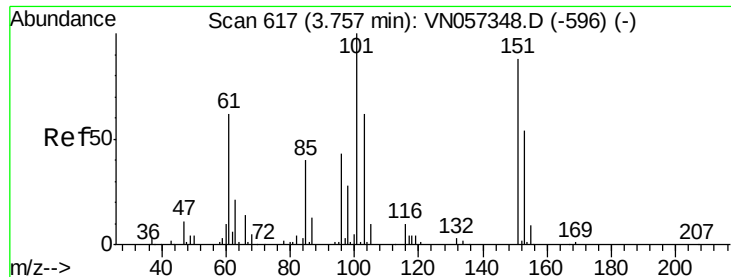


#8

Diethyl Ether
 Concen: 20.684 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

Tgt Ion: 74 Resp: 93447
 Ion Ratio Lower Upper
 74 100
 45 89.4 19.9 179.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.159 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

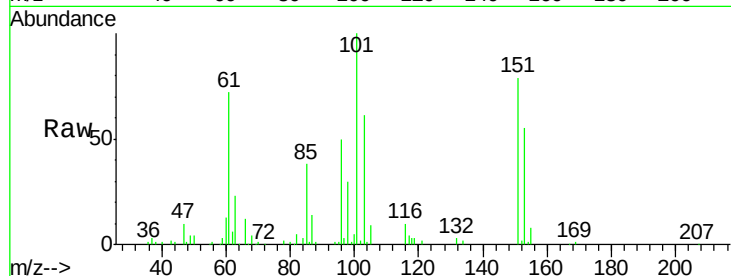
Tot Ion:101 Resp: 154679

Ion Ratio Lower Upper

101 100

85 40.6 0.0 84.2

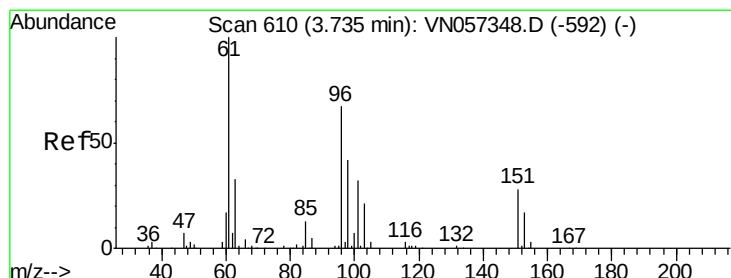
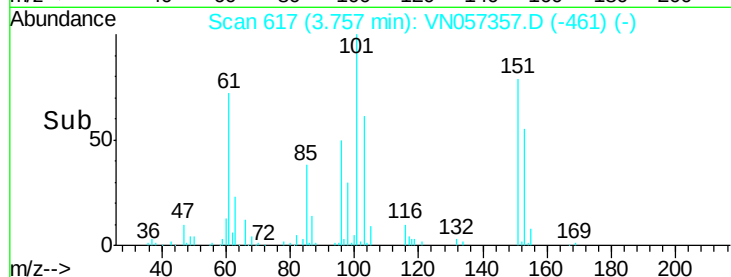
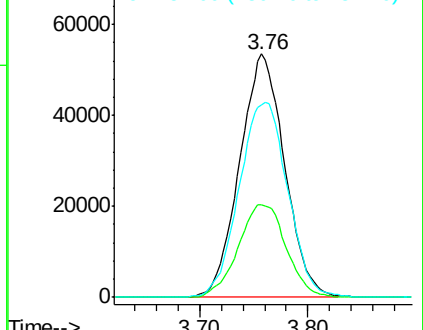
151 86.8 0.0 167.6



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: 21.109 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

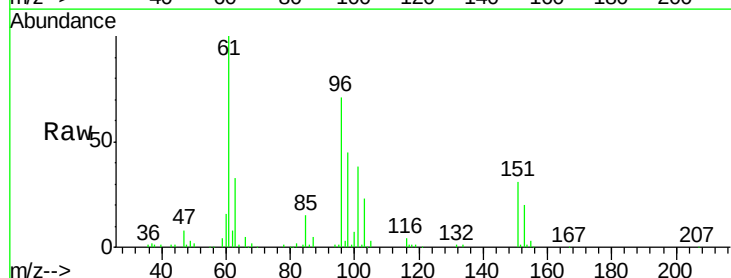
Tgt Ion: 96 Resp: 153037

Ion Ratio Lower Upper

96 100

61 141.5 129.0 193.4

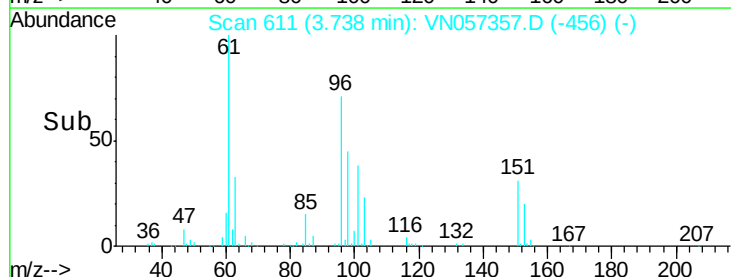
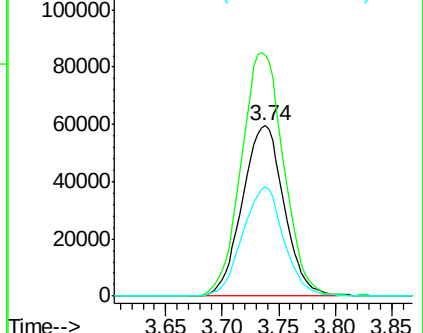
98 64.3 52.5 78.7

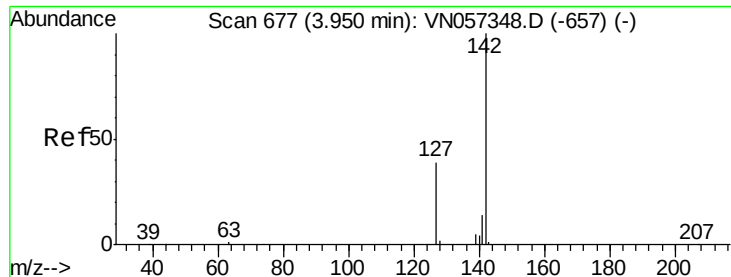


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

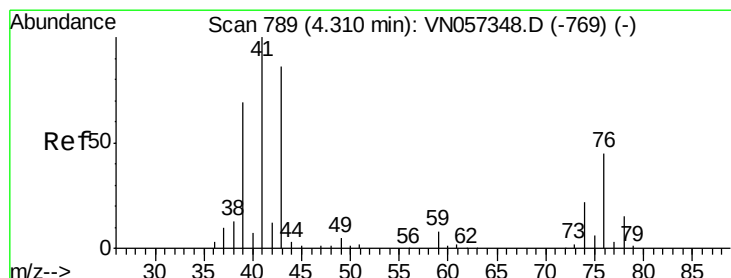
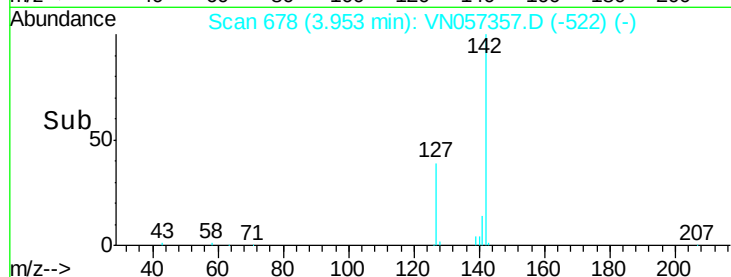
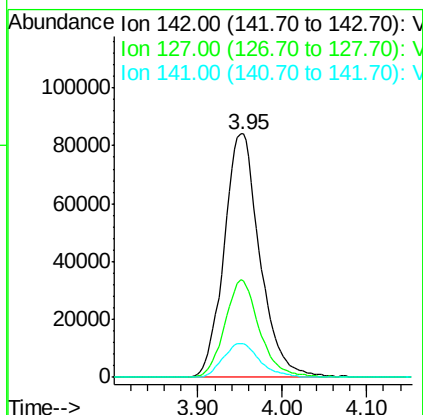
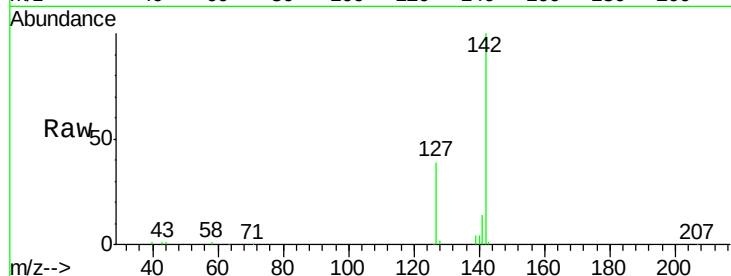




#11
Methyl Iodide
Concen: 20.316 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

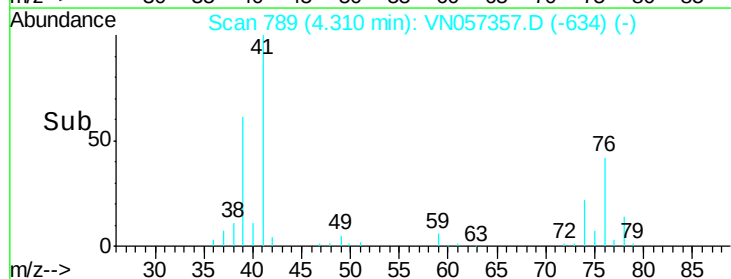
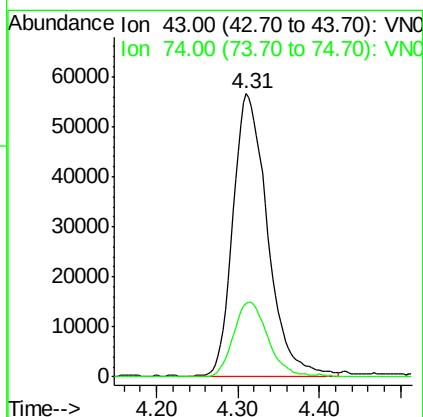
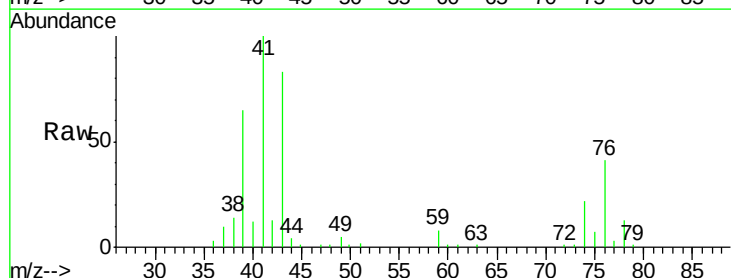
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

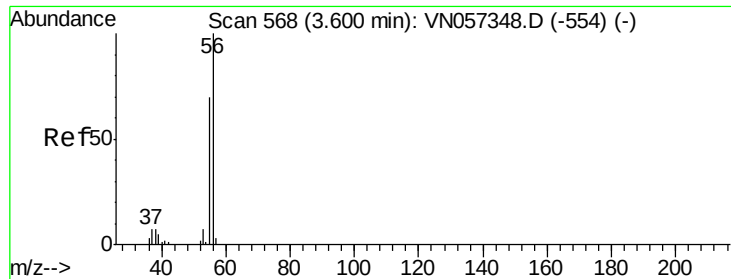
Tot Ion:142 Resp: 248377
Ion Ratio Lower Upper
142 100
127 39.4 19.5 58.5
141 13.9 6.8 20.3



#12
Methyl Acetate
Concen: 20.323 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion: 43 Resp: 165650
Ion Ratio Lower Upper
43 100
74 25.9 20.2 30.4





#13

Acrolein

Concen: 109.248 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

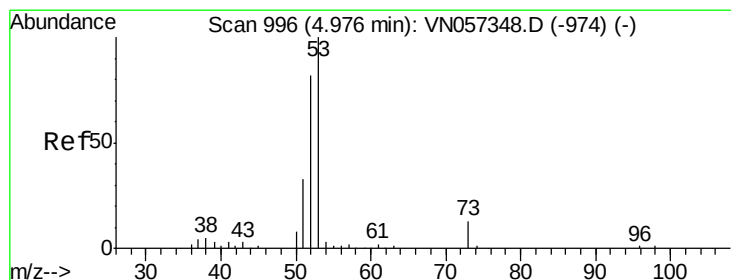
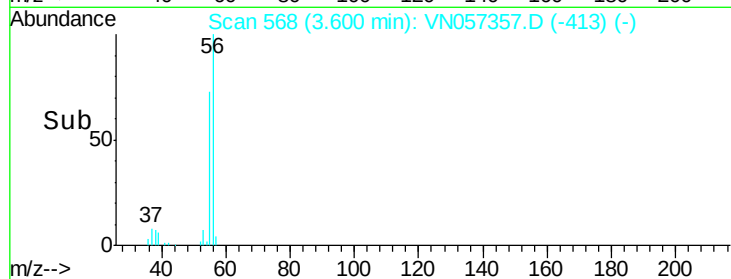
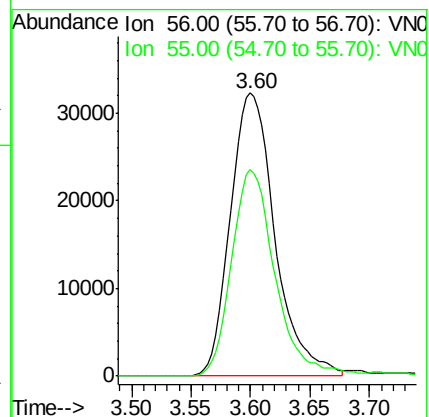
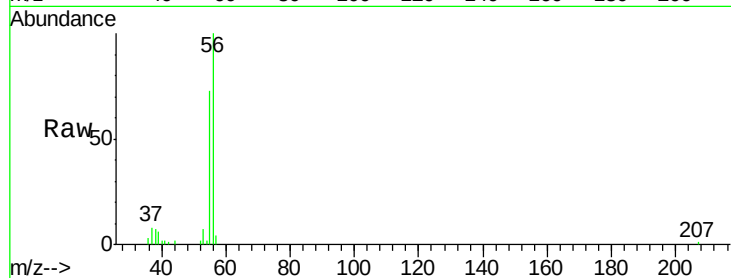
VSTDCCC020EC

Tot Ion: 56 Resp: 84205

Ion Ratio Lower Upper

56 100

55 69.5 56.9 85.3



#14

Acrylonitrile

Concen: 102.094 ug/l

RT: 4.97 min Scan# 995

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

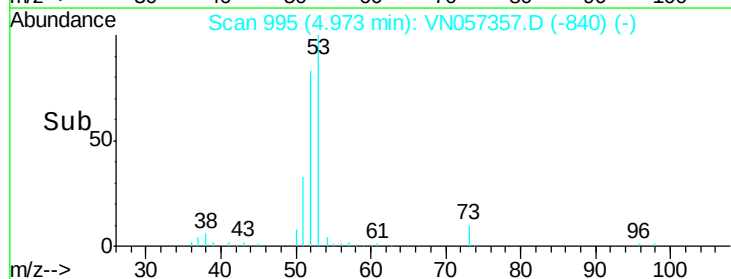
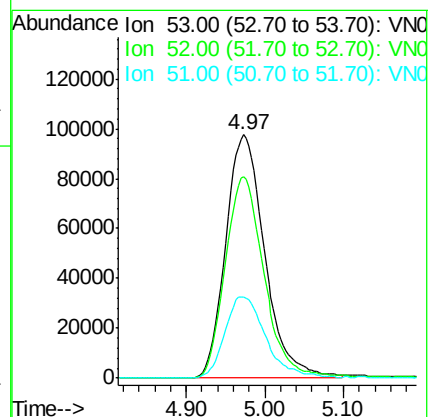
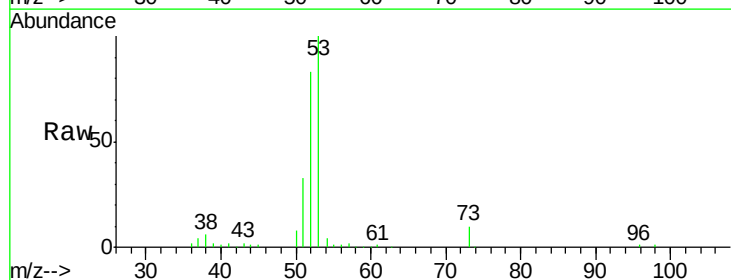
Tgt Ion: 53 Resp: 337098

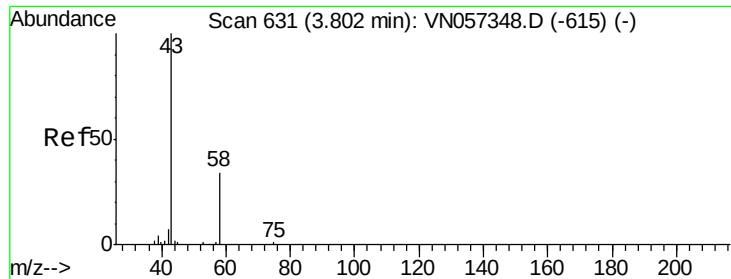
Ion Ratio Lower Upper

53 100

52 81.5 41.3 123.7

51 34.4 17.7 53.1





#15

Acetone

Concen: 91.897 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

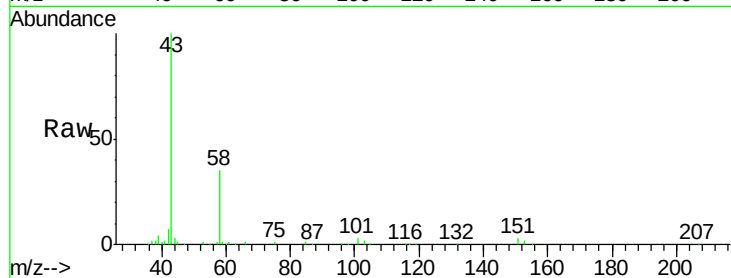
VSTDCCC020EC

Tot Ion: 58 Resp: 89413

Ion Ratio Lower Upper

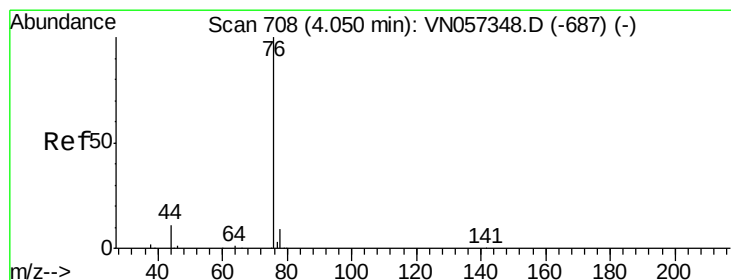
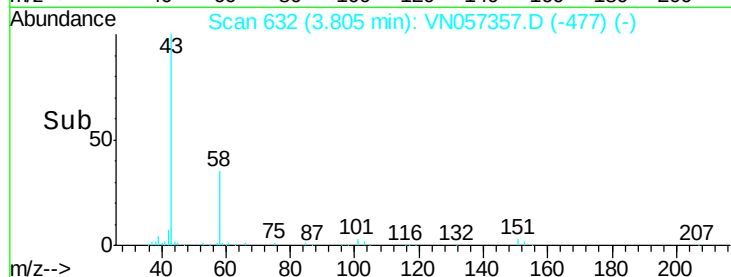
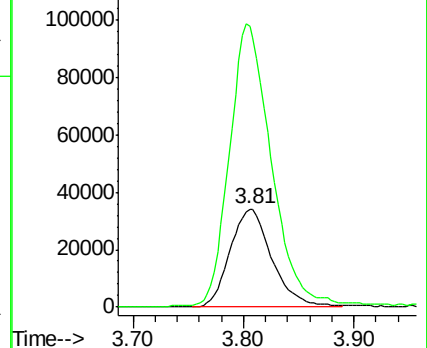
58 100

43 285.0 233.9 350.9



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 20.262 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.01 min

Lab File: VN057357.D

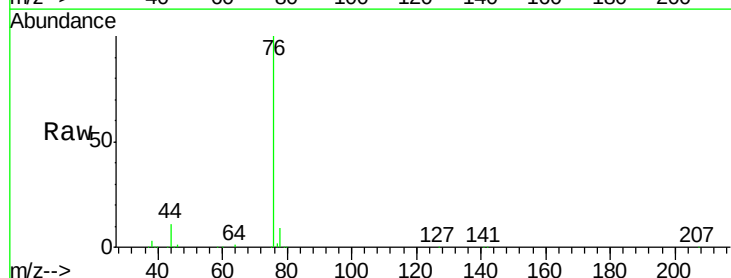
Acq: 16 Aug 2019 15:53

Tgt Ion: 76 Resp: 401535

Ion Ratio Lower Upper

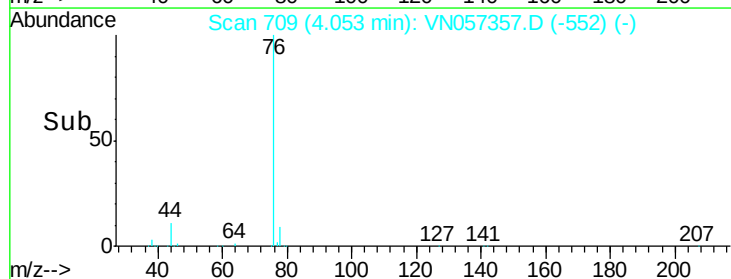
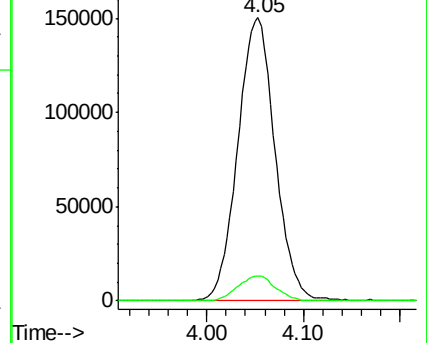
76 100

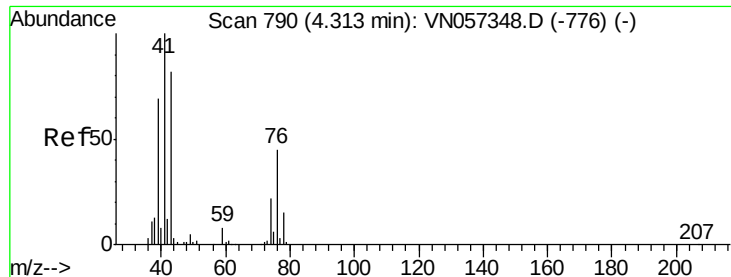
78 8.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

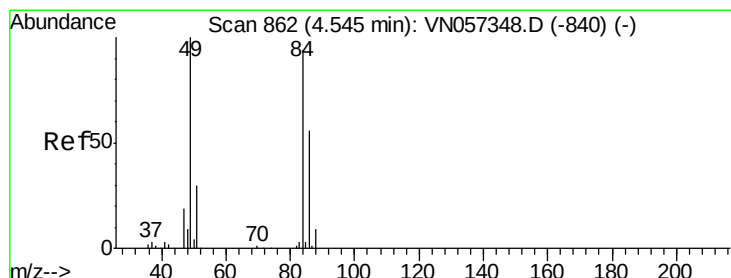
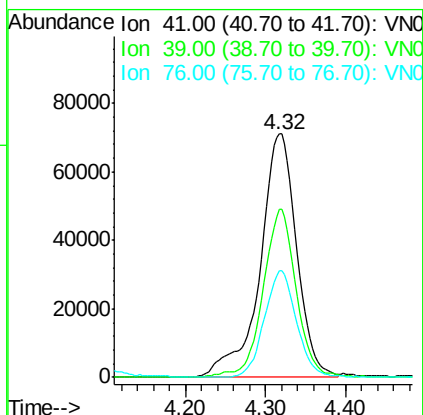
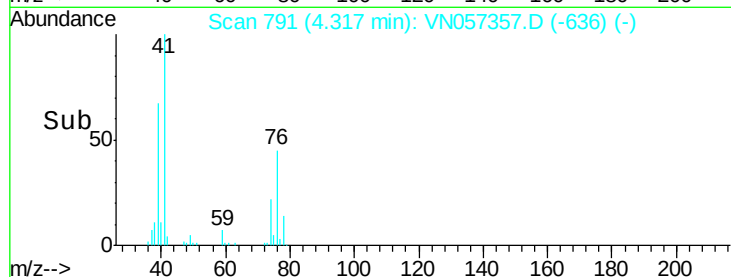
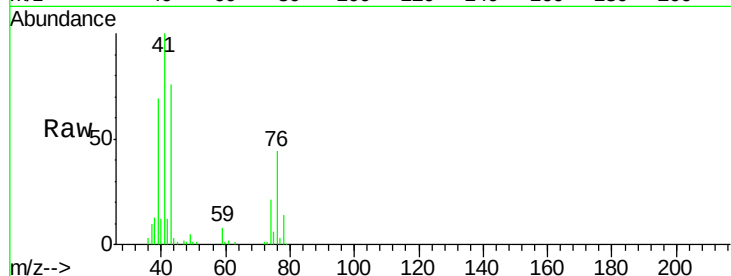




#17
Allvl chloride
Concen: 21.364 ug/l
RT: 4.32 min Scan# 791
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

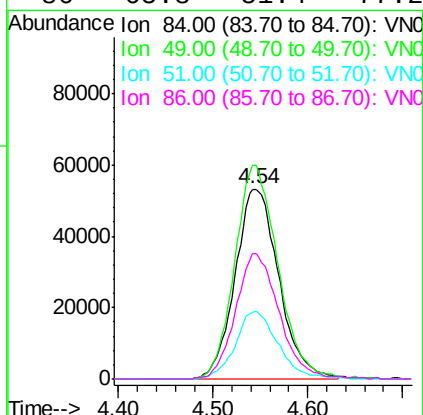
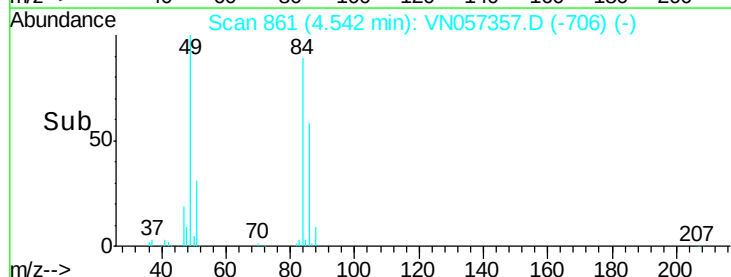
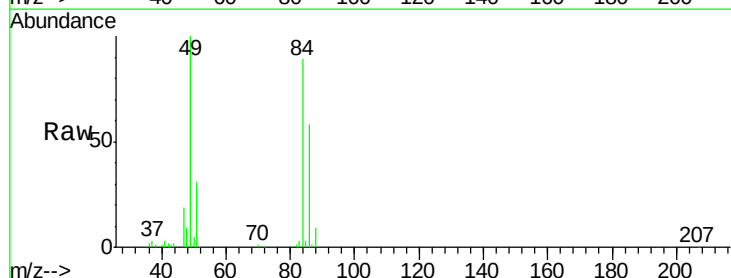
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

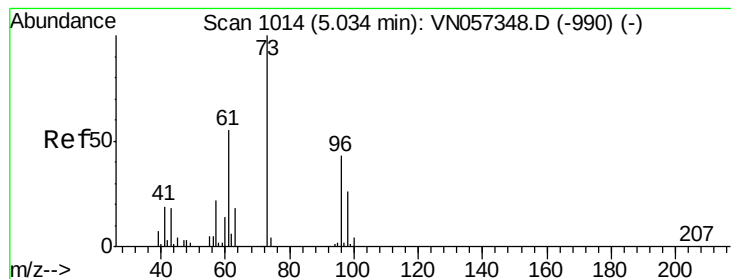
Tot Ion:	41	Resp:	226225
Ion	Ratio	Lower	Upper
41	100		
39	69.0	32.8	98.4
76	43.2	18.5	55.5



#18
Methylene Chloride
Concen: 20.608 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion:	84	Resp:	170999
Ion	Ratio	Lower	Upper
84	100		
49	112.4	93.9	140.9
51	35.2	31.7	47.5
86	65.8	51.4	77.2





#19

trans-1,2-Dichloroethene

Concen: 20.709 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

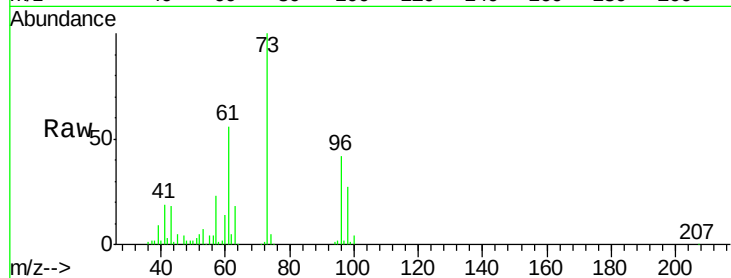
Tot Ion: 96 Resp: 162579

Ion Ratio Lower Upper

96 100

61 133.9 109.6 164.4

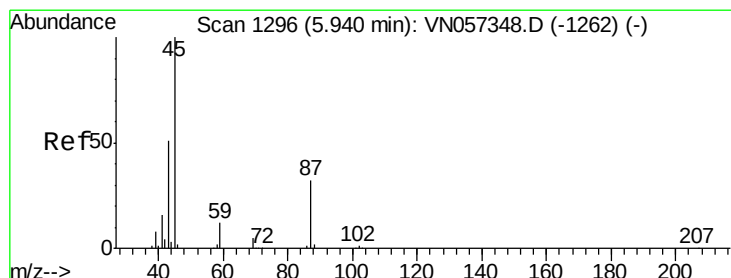
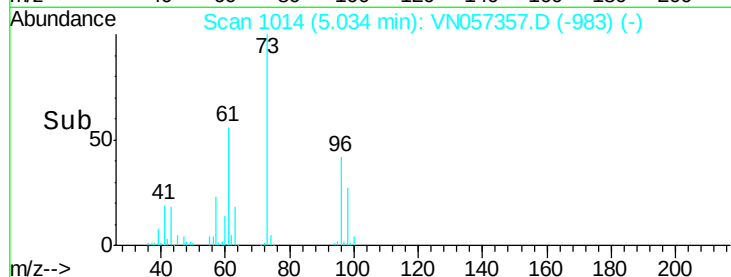
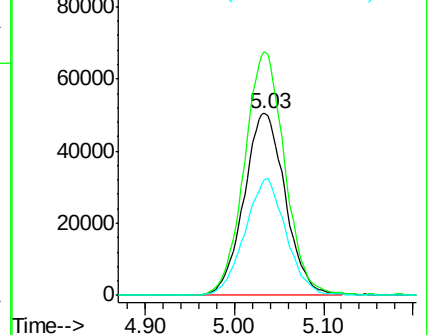
98 63.9 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VN057348.D (-990) (-)

Ion 61.00 (60.70 to 61.70): VN057348.D (-990) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-990) (-)



#20

Diisopropyl ether

Concen: 20.914 ug/l

RT: 5.94 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Tgt Ion: 45 Resp: 461168

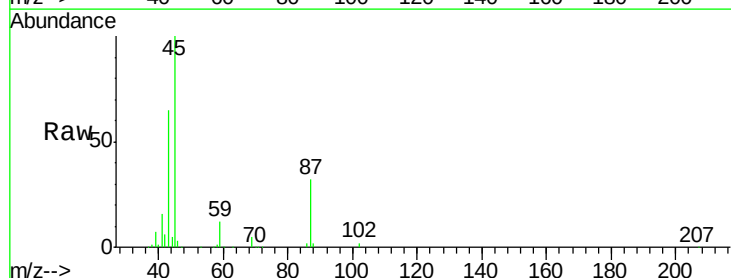
Ion Ratio Lower Upper

45 100

43 63.7 50.3 75.5

87 31.5 21.4 32.0

59 11.9 9.7 14.5

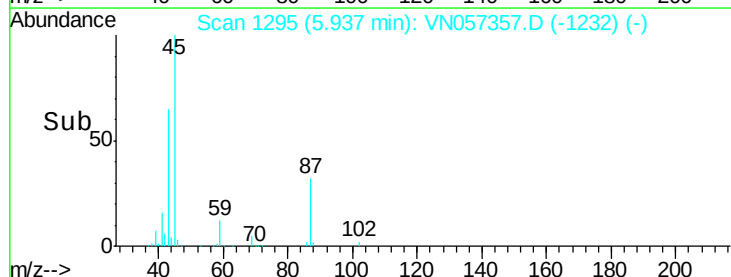
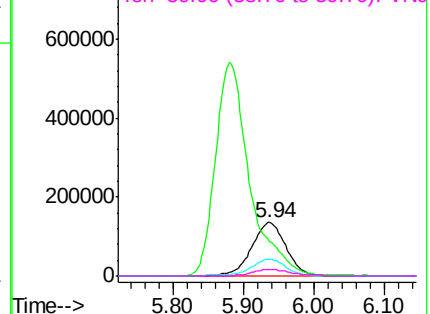


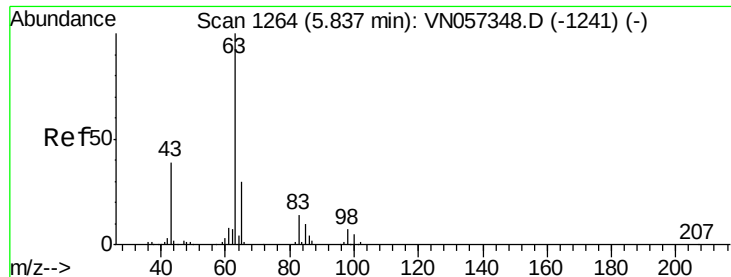
Abundance Ion 45.00 (44.70 to 45.70): VN057348.D (-1262) (-)

Ion 43.00 (42.70 to 43.70): VN057348.D (-1262) (-)

Ion 87.00 (86.70 to 87.70): VN057348.D (-1262) (-)

Ion 59.00 (58.70 to 59.70): VN057348.D (-1262) (-)





#21

1,1-Dichloroethane

Concen: 20.723 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

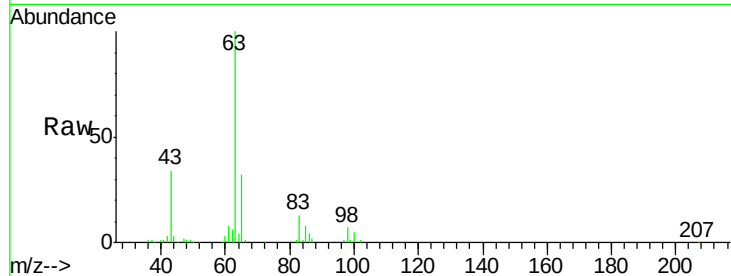
Tot Ion: 63 Resp: 282340

Ion Ratio Lower Upper

63 100

98 7.1 3.3 9.8

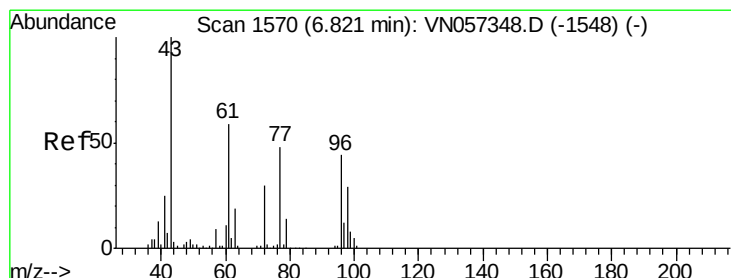
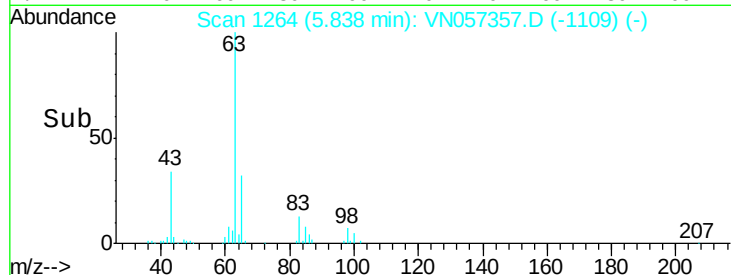
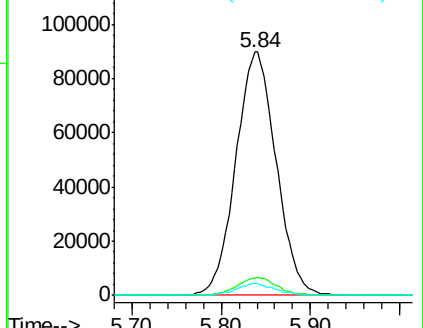
100 4.8 2.1 6.3



Abundance Ion 63.00 (62.70 to 63.70): VN057348.D (-1241) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-1241) (-)

Ion 100.00 (99.70 to 100.70): VN057348.D (-1241) (-)



#22

cis-1,2-Dichloroethene

Concen: 20.679 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

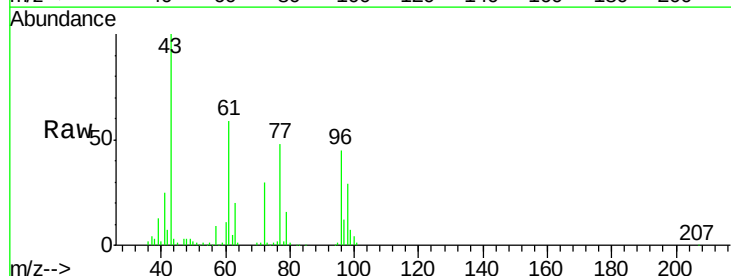
Tgt Ion: 96 Resp: 188128

Ion Ratio Lower Upper

96 100

61 133.6 112.1 168.1

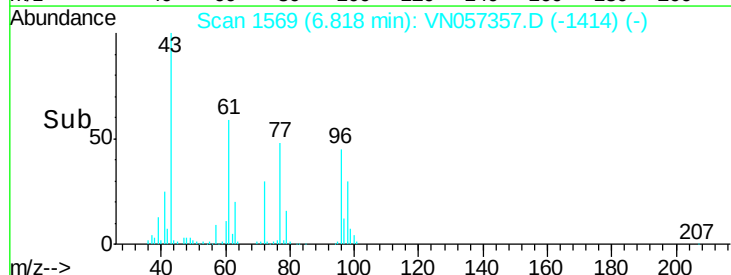
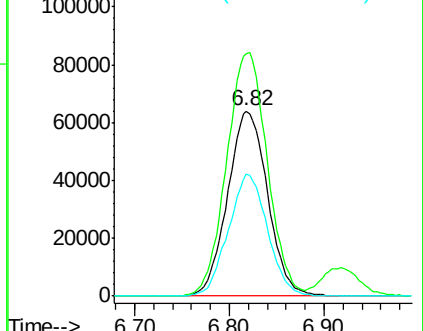
98 64.3 52.2 78.2

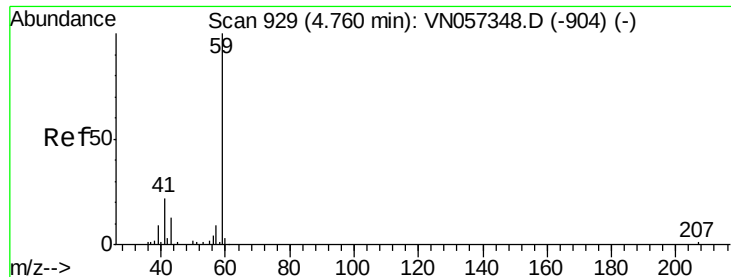


Abundance Ion 96.00 (95.70 to 96.70): VN057348.D (-1548) (-)

Ion 61.00 (60.70 to 61.70): VN057348.D (-1548) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-1548) (-)





#23

tert-Butyl Alcohol

Concen: 100.480 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

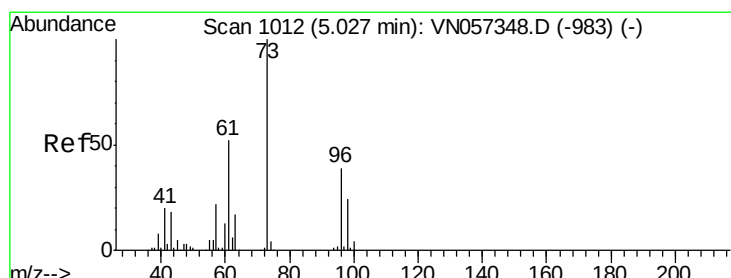
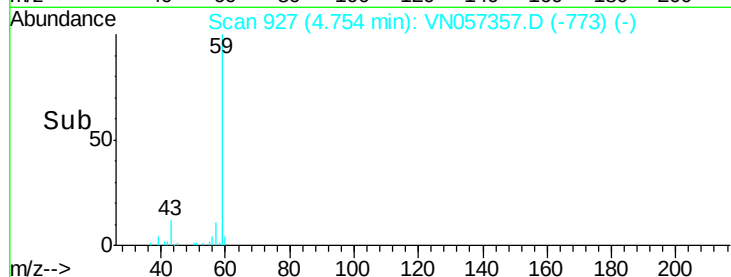
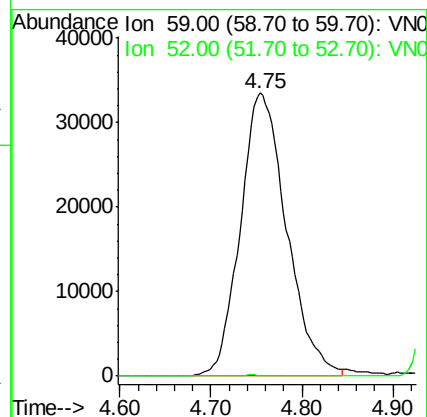
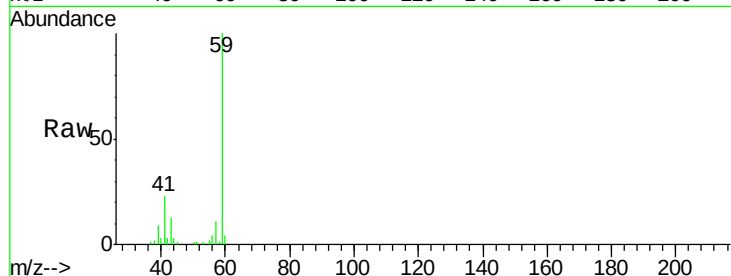
VSTDCCC020EC

Tot Ion: 59 Resp: 118232

Ion Ratio Lower Upper

59 100

52 0.1 0.1 0.1



#24

Methyl tert-Butyl Ether

Concen: 20.936 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VN057357.D

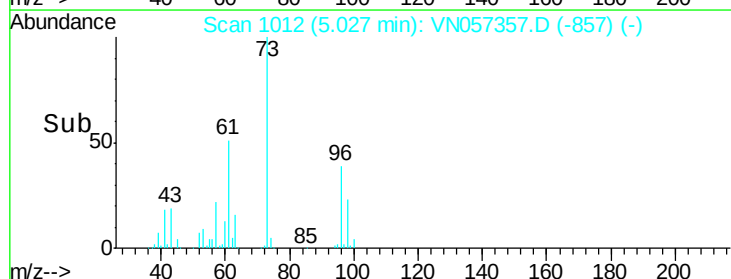
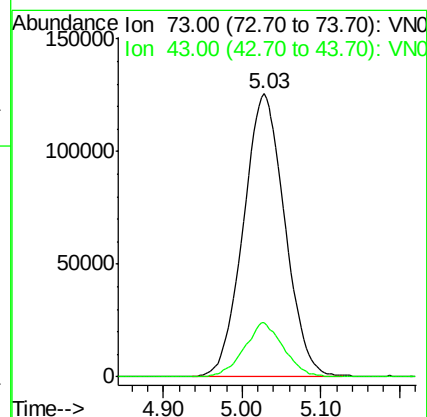
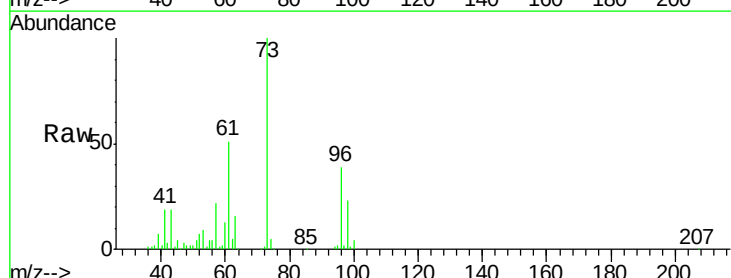
Acq: 16 Aug 2019 15:53

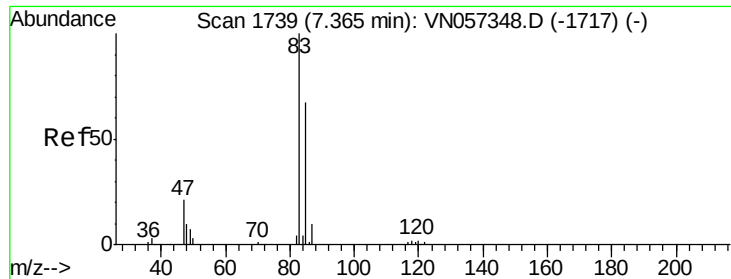
Tgt Ion: 73 Resp: 465779

Ion Ratio Lower Upper

73 100

43 18.0 15.1 22.7





#25

Chloroform

Concen: 20.825 ug/l

RT: 7.36 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

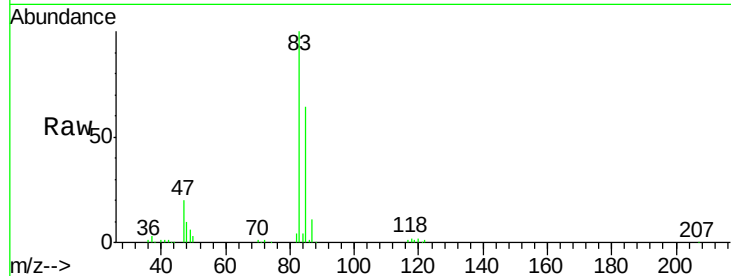
VSTDCCC020EC

Tot Ion: 83 Resp: 296552

Ion Ratio Lower Upper

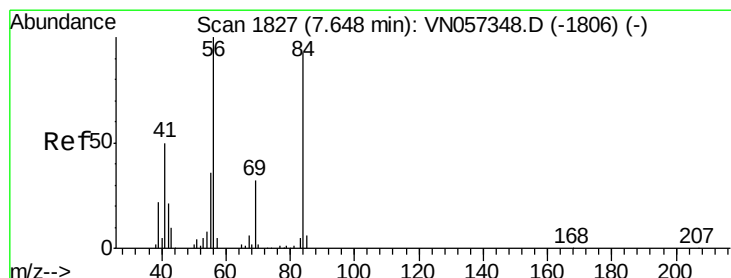
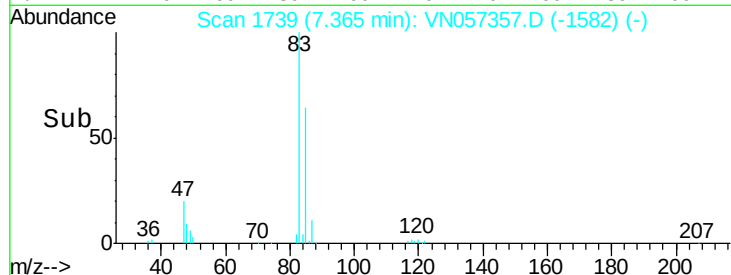
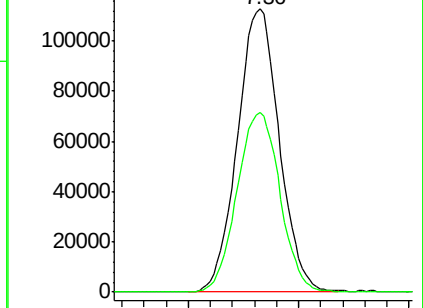
83 100

85 63.7 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#26

Cyclohexane

Concen: 20.447 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

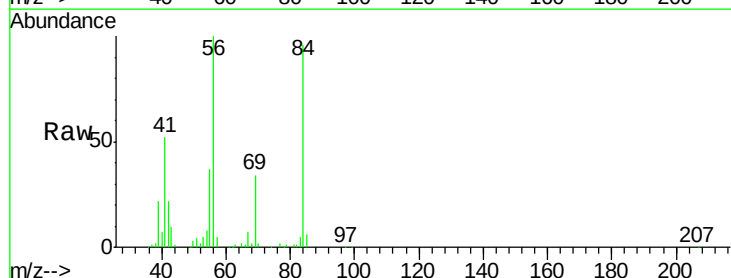
Tgt Ion: 56 Resp: 231566

Ion Ratio Lower Upper

56 100

89 0.0 1.4 2.2#

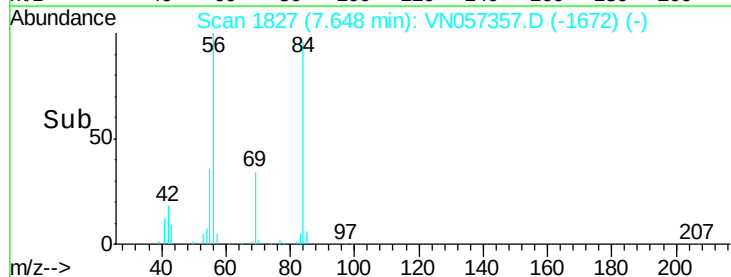
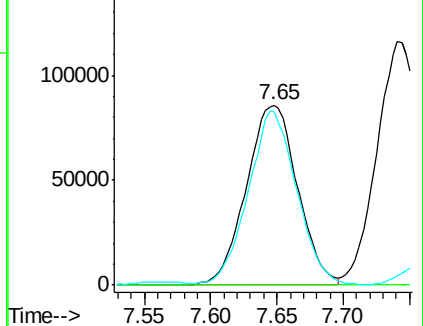
84 91.6 68.2 102.4

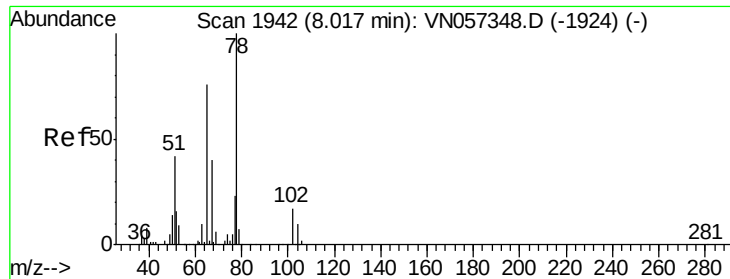


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 30.599 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

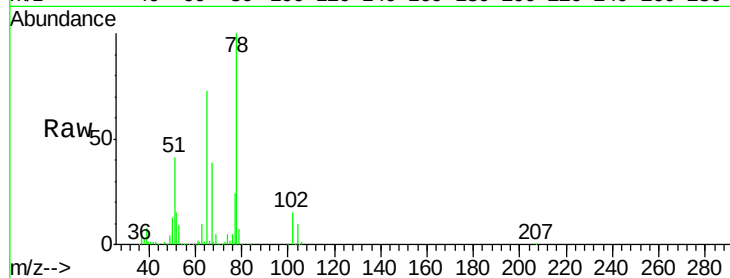
VSTDCCC020EC

Tot Ion: 65 Resp: 264409

Ion Ratio Lower Upper

65 100

67 54.0 43.4 65.0



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

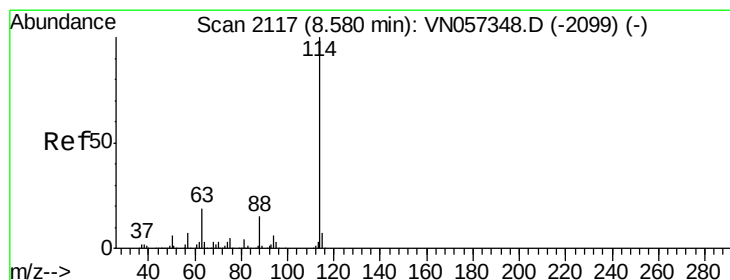
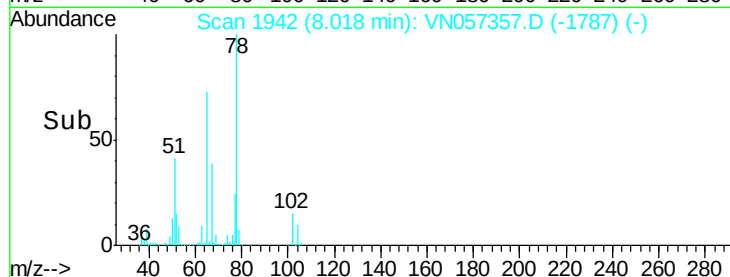
8.02

100000

50000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

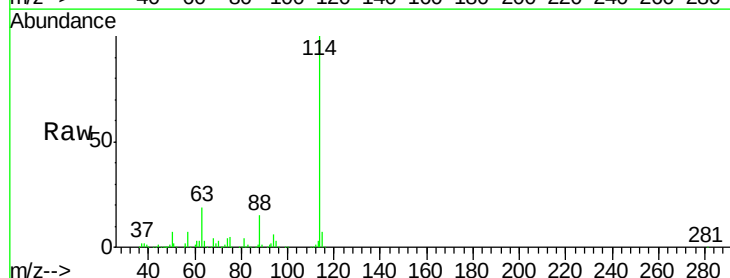
Tgt Ion: 114 Resp: 738908

Ion Ratio Lower Upper

114 100

63 18.4 16.2 24.2

88 15.2 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

8.58

400000

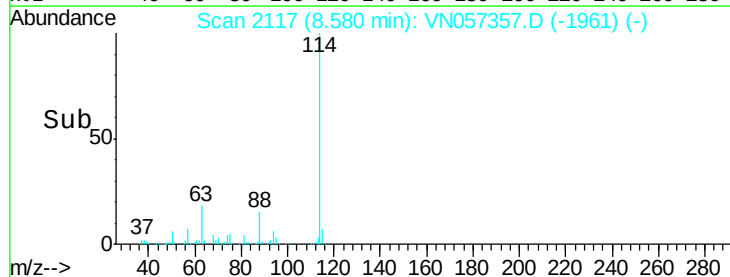
300000

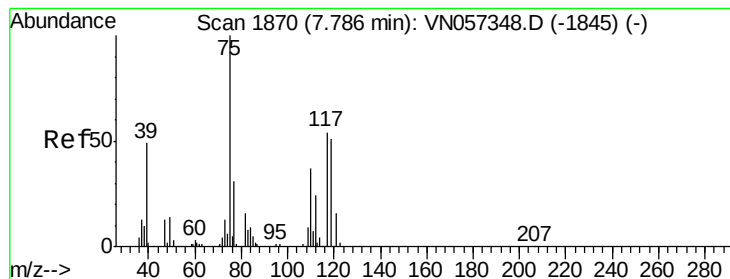
200000

100000

0

Time-->





#29

1,1-Dichloropropene

Concen: 20.290 ug/l

RT: 7.79 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

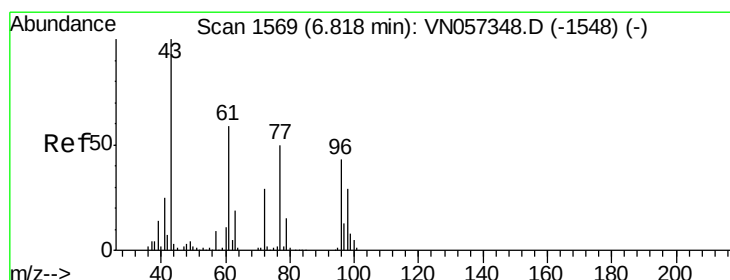
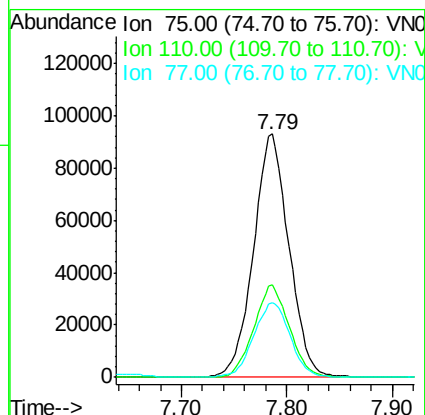
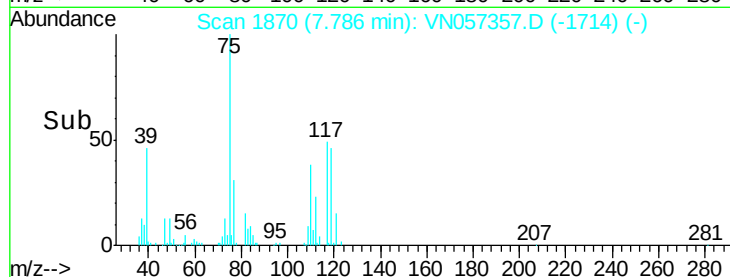
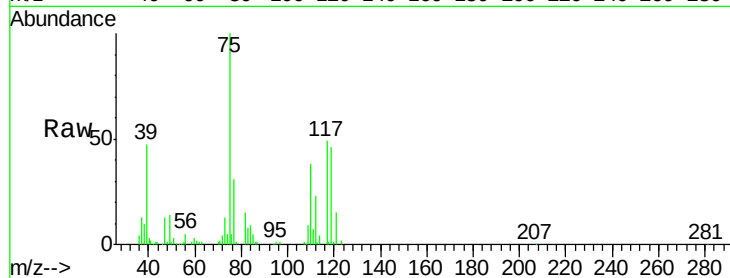
Tot Ion: 75 Resp: 218091

Ion Ratio Lower Upper

75 100

110 37.9 0.0 72.4

77 31.5 0.0 62.2



#30

2-Butanone

Concen: 97.600 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

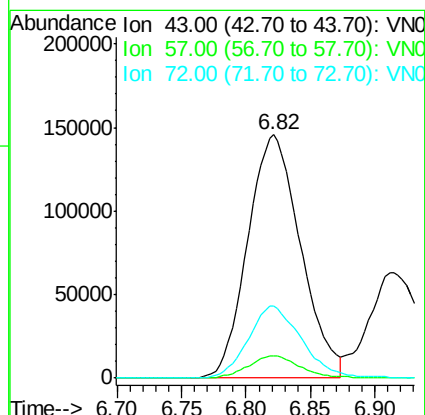
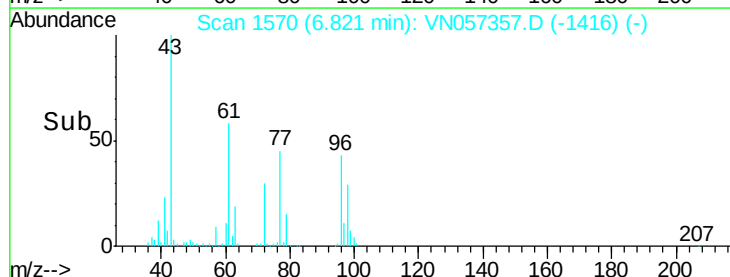
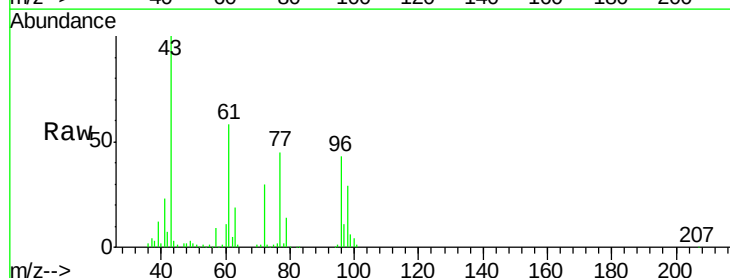
Tgt Ion: 43 Resp: 413894

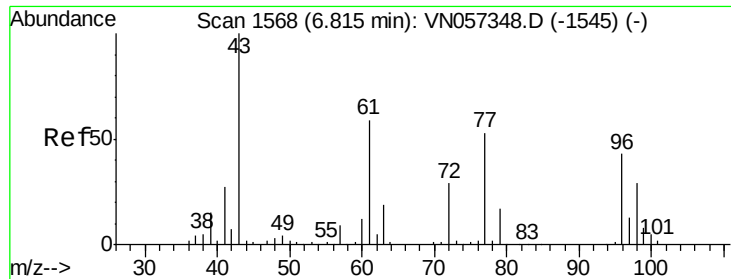
Ion Ratio Lower Upper

43 100

57 9.1 6.6 10.0

72 29.9 21.3 31.9





#31

2,2-Dichloropropane

Concen: 19.119 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

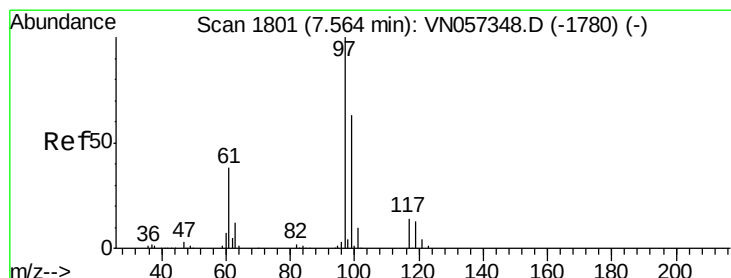
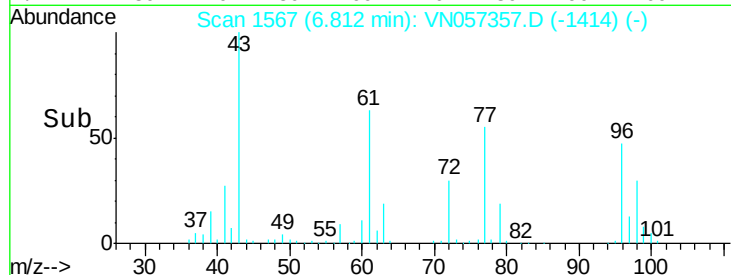
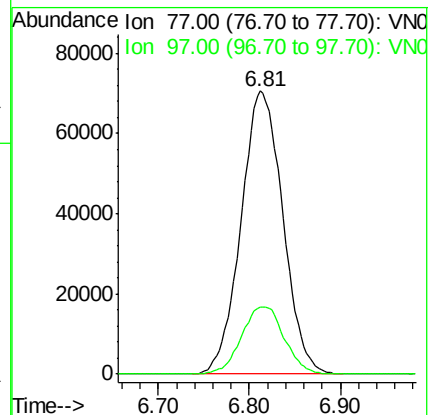
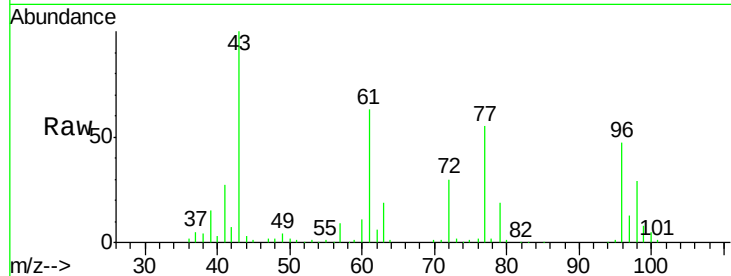
VSTDCCC020EC

Tot Ion: 77 Resp: 225120

Ion Ratio Lower Upper

77 100

97 24.3 19.7 29.5



#32

1,1,1-Trichloroethane

Concen: 20.471 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.01 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

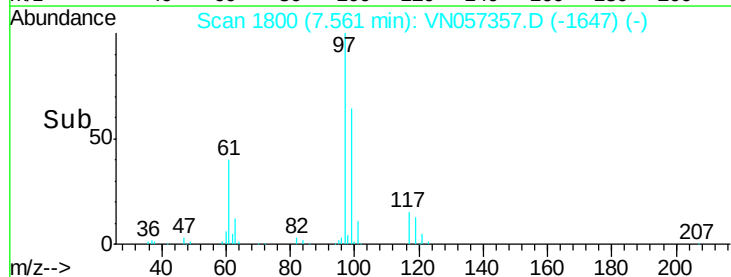
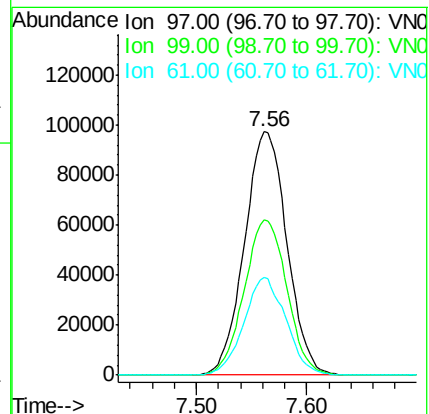
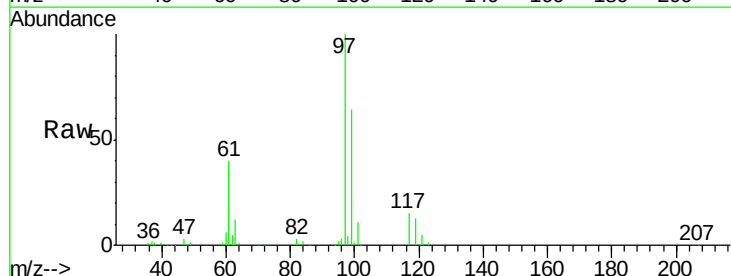
Tgt Ion: 97 Resp: 260115

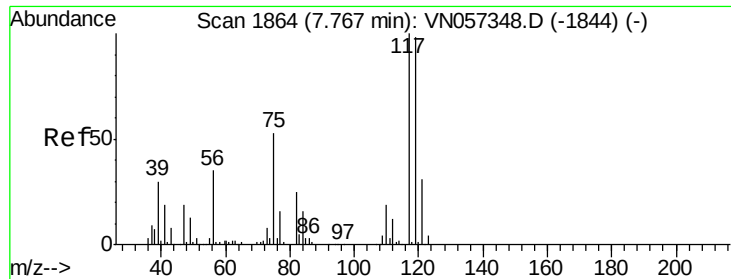
Ion Ratio Lower Upper

97 100

99 64.2 52.0 78.0

61 39.8 34.4 51.6





#33

Carbon Tetrachloride

Concen: 20.132 ug/l

RT: 7.76 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

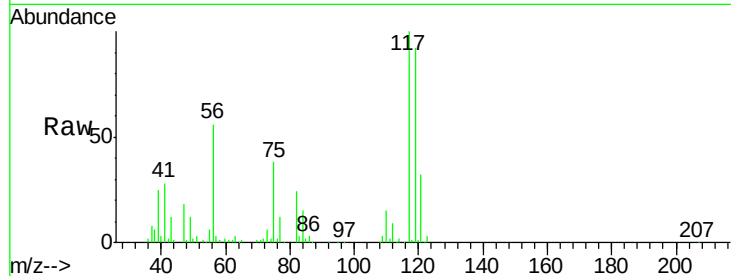
Tot Ion:117 Resp: 227783

Ion Ratio Lower Upper

117 100

119 92.3 78.7 118.1

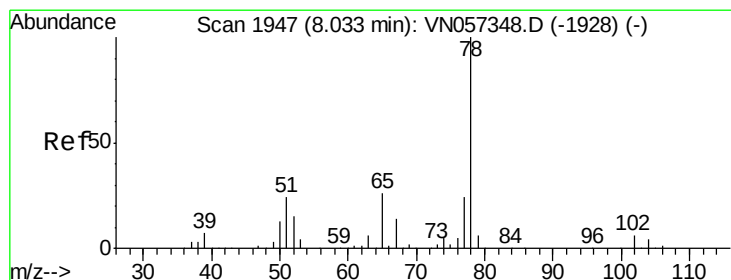
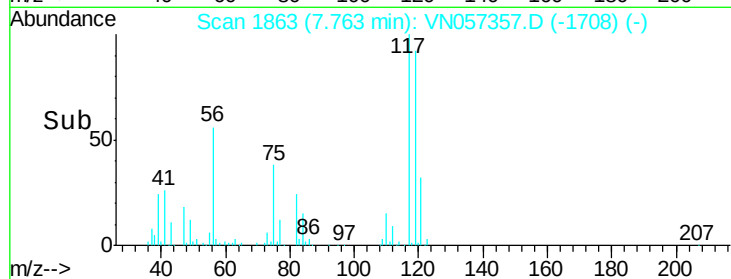
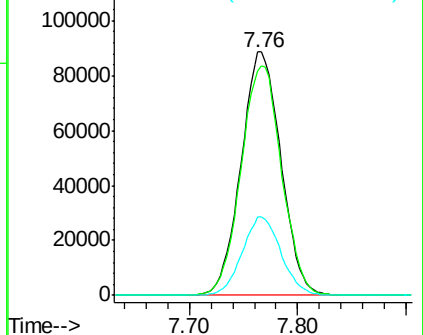
121 32.1 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 20.537 ug/l

RT: 8.03 min Scan# 1947

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

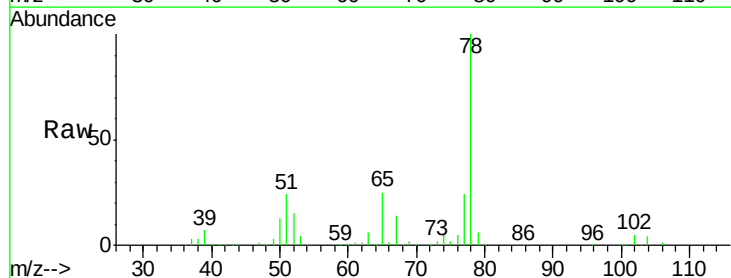
Tgt Ion: 78 Resp: 669656

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.4

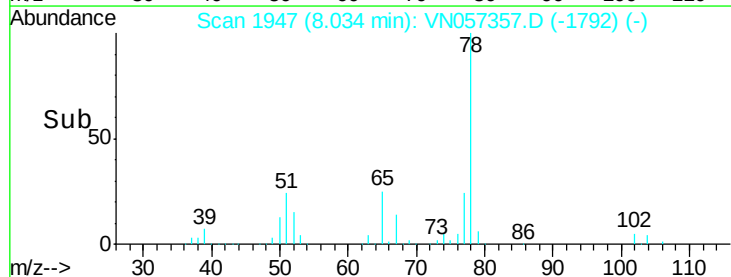
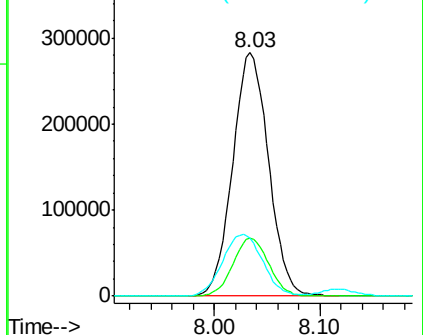
51 23.5 19.7 29.5

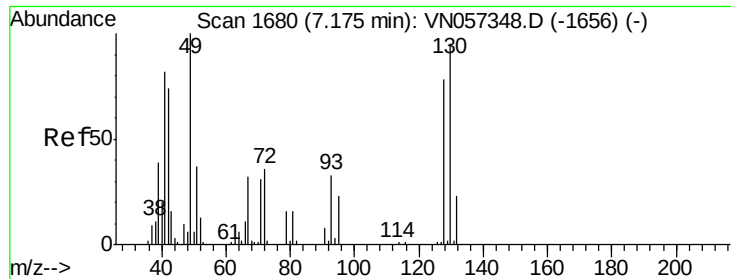


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

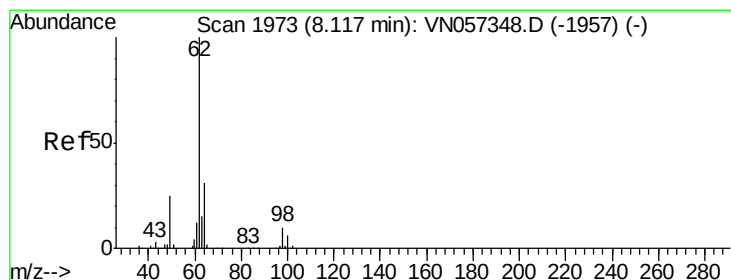
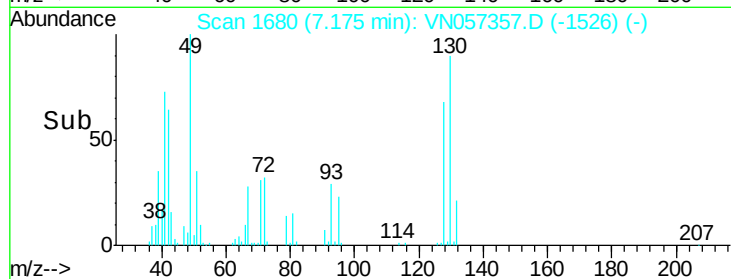
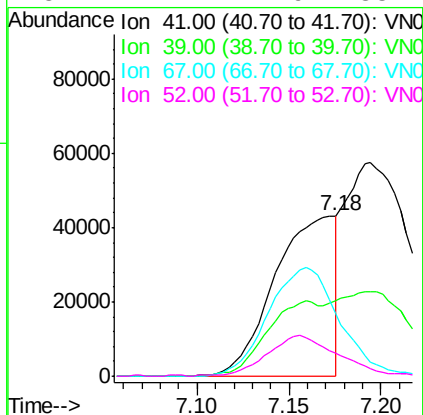
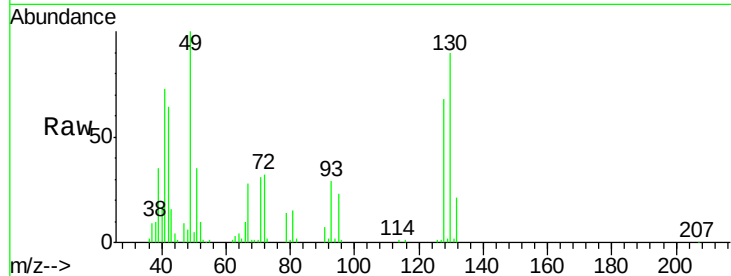




#35
Methacrylonitrile
Concen: 17.341 ug/l m
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

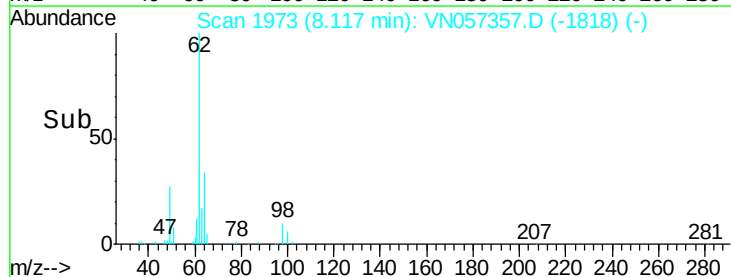
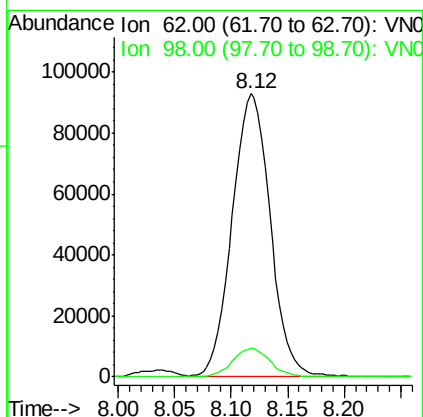
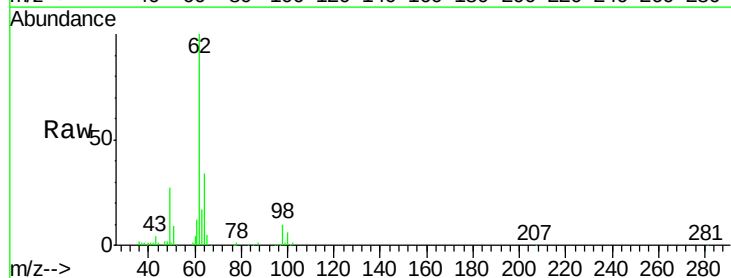
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

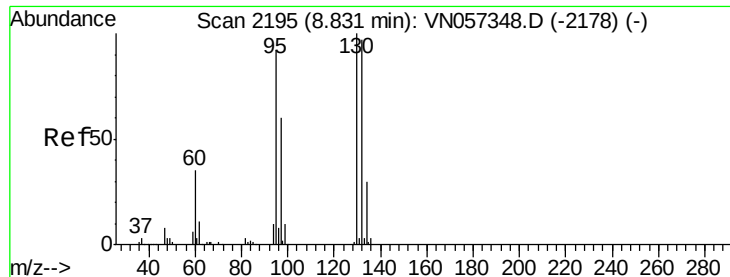
Tot Ion:	41	Resp:	98790
Ion	Ratio	Lower	Upper
41	100		
39	47.3	25.4	76.2
67	39.0	33.6	100.8
52	14.2	12.9	38.7



#36
1,2-Dichloroethane
Concen: 20.605 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion:	62	Resp:	218361
Ion	Ratio	Lower	Upper
62	100		
98	9.9	7.7	11.5





#37

Trichloroethene

Concen: 20.531 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

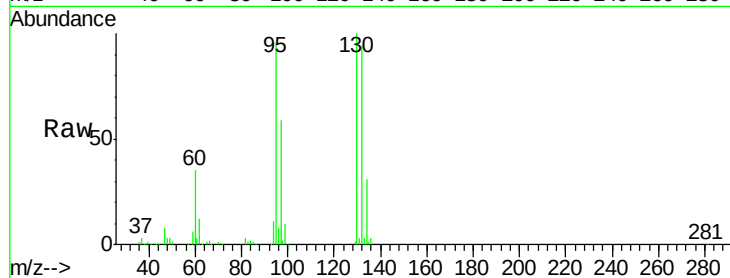
VSTDCCC020EC

Tot Ion:130 Resp: 194876

Ion Ratio Lower Upper

130 100

95 95.0 78.4 117.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.83

100000

80000

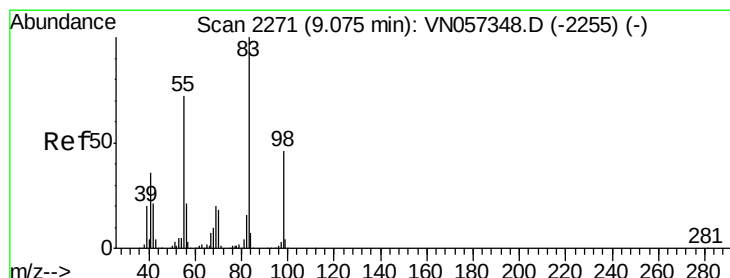
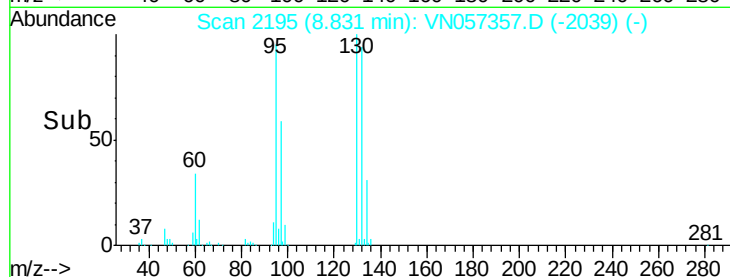
60000

40000

20000

0

Time-->



#38

Methylcyclohexane

Concen: 19.889 ug/l

RT: 9.08 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

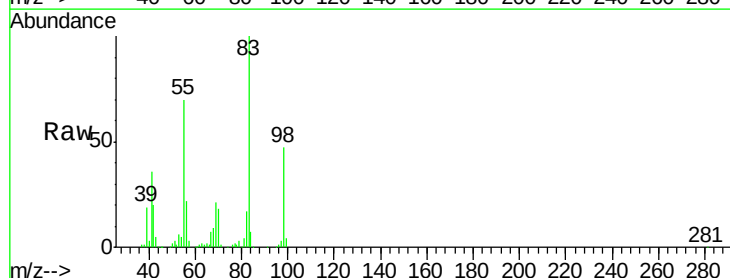
Tgt Ion: 83 Resp: 253178

Ion Ratio Lower Upper

83 100

55 71.7 38.4 115.2

98 46.3 23.3 69.9



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

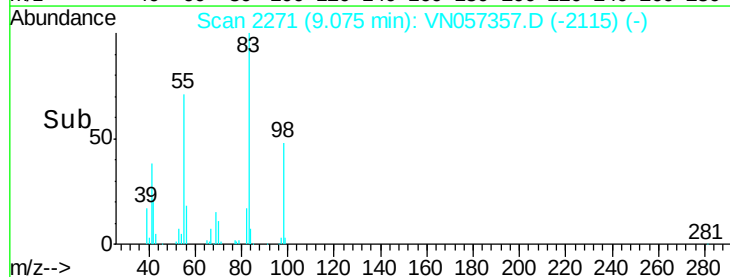
150000

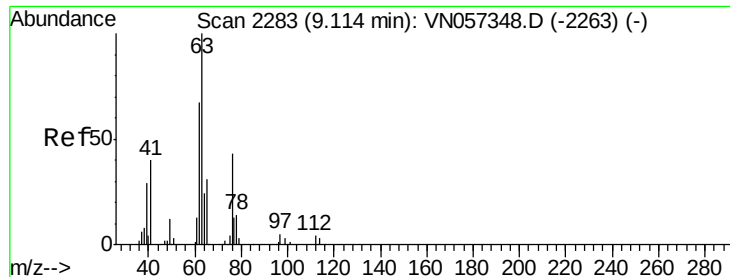
100000

50000

0

Time-->





#39

1,2-Dichloropropane

Concen: 20.753 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

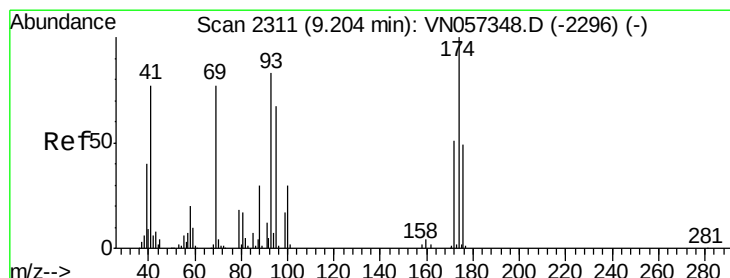
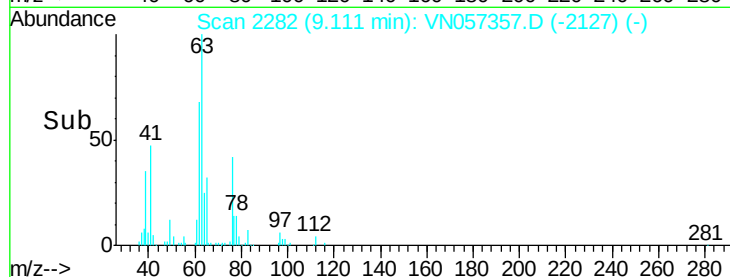
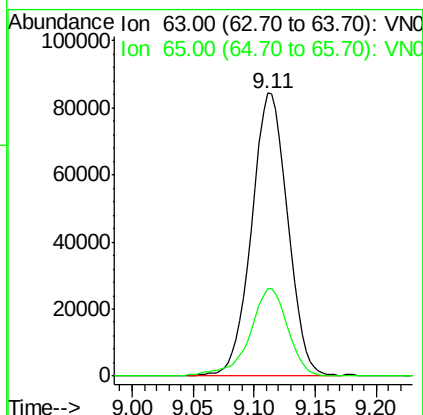
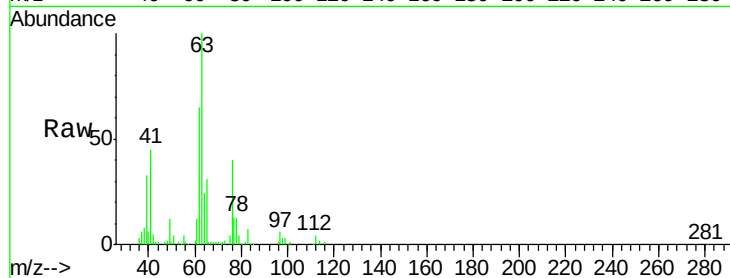
VSTDCCC020EC

Tot Ion: 63 Resp: 172959

Ion Ratio Lower Upper

63 100

65 30.7 24.6 36.8



#40

Dibromomethane

Concen: 20.748 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

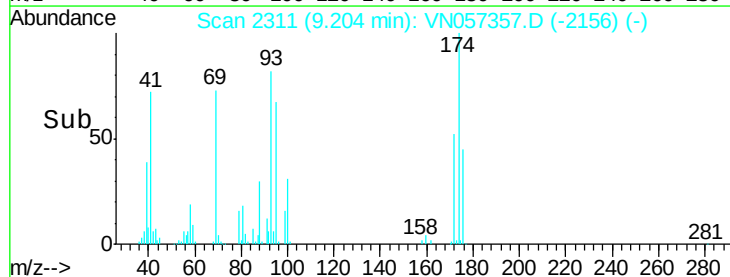
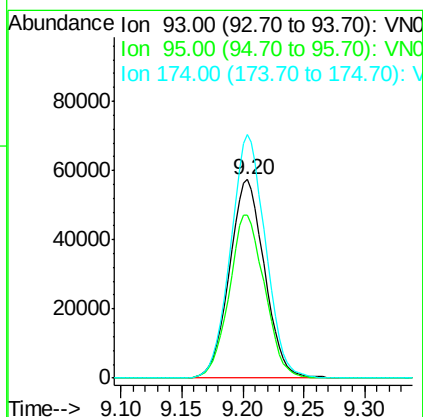
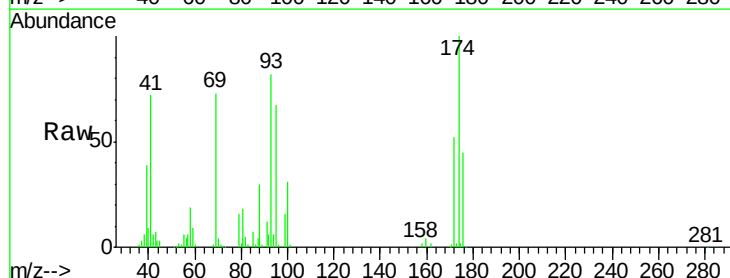
Tgt Ion: 93 Resp: 115034

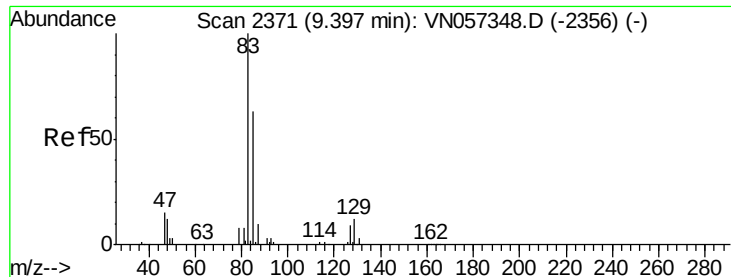
Ion Ratio Lower Upper

93 100

95 82.6 0.0 167.0

174 121.3 0.0 224.2





#41

Bromodichloromethane

Concen: 20.199 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

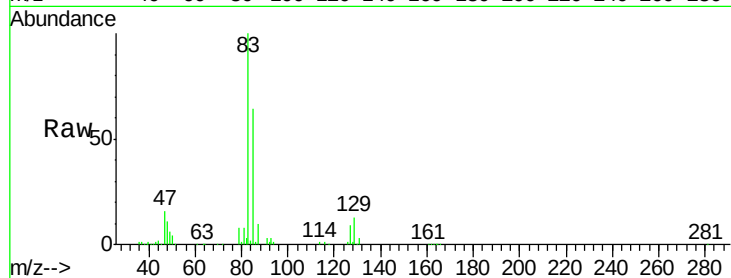
Tot Ion: 83 Resp: 226920

Ion Ratio Lower Upper

83 100

85 63.7 50.1 75.1

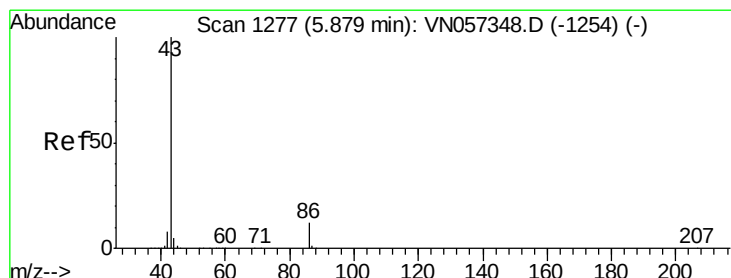
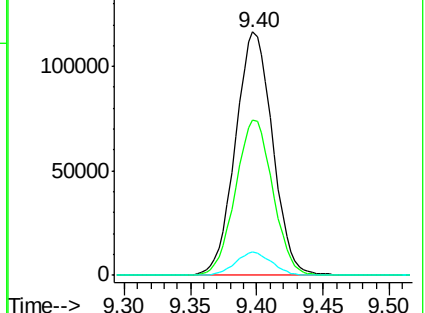
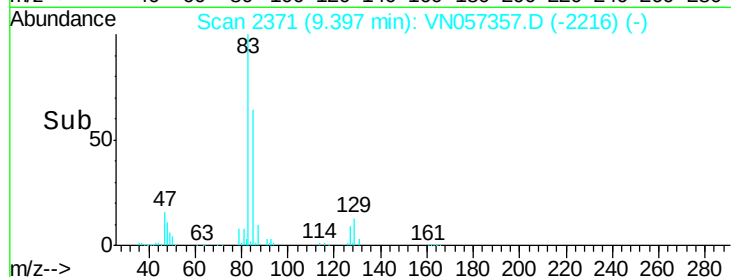
127 9.4 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 102.179 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VN057357.D

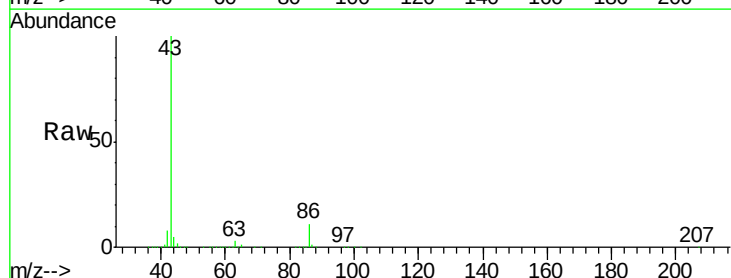
Acq: 16 Aug 2019 15:53

Tgt Ion: 43 Resp: 1823264

Ion Ratio Lower Upper

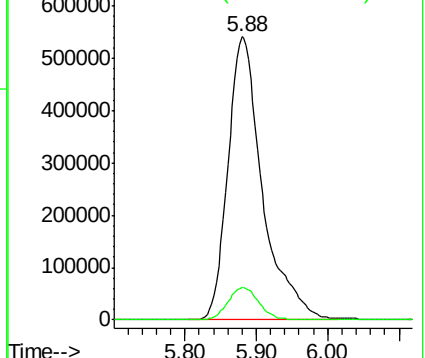
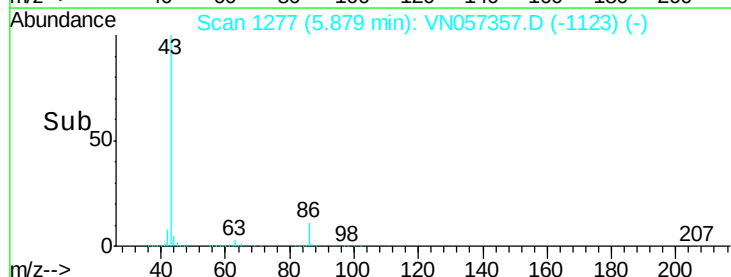
43 100

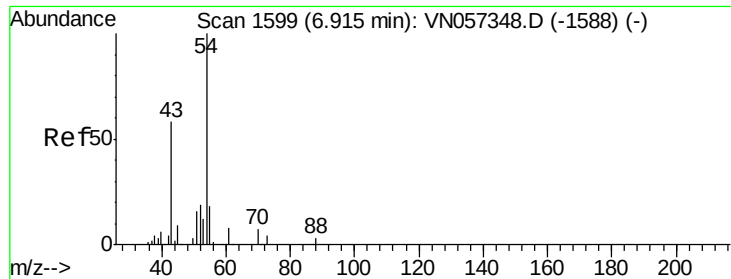
86 10.3 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

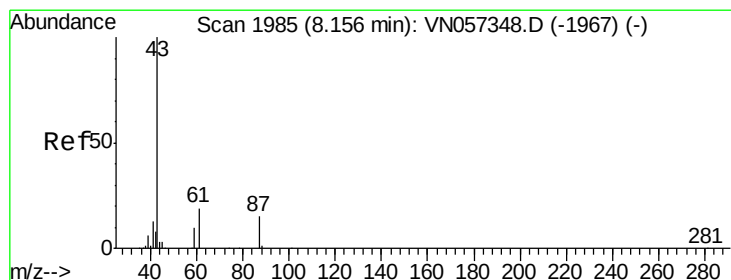
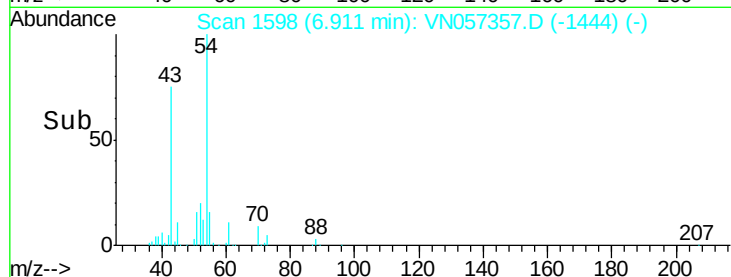
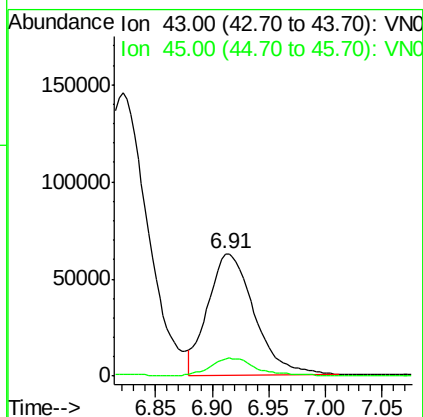
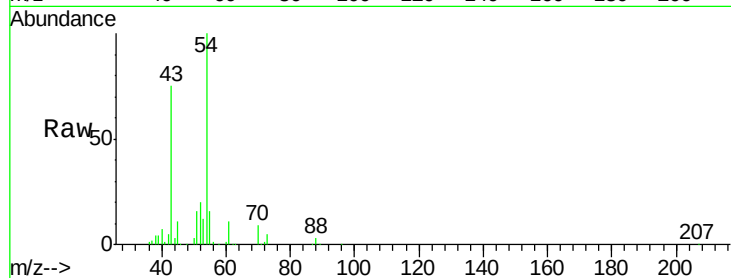




#43
Ethyl Acetate
Concen: 20.493 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

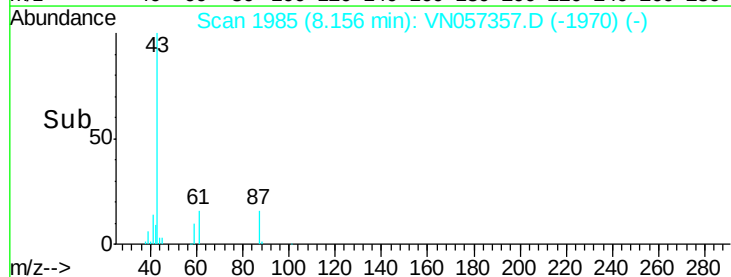
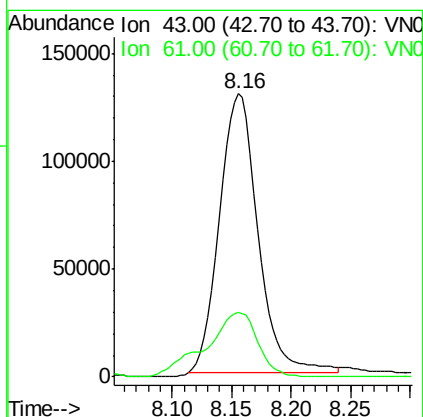
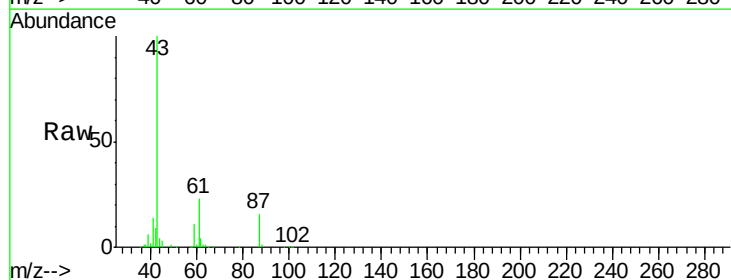
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

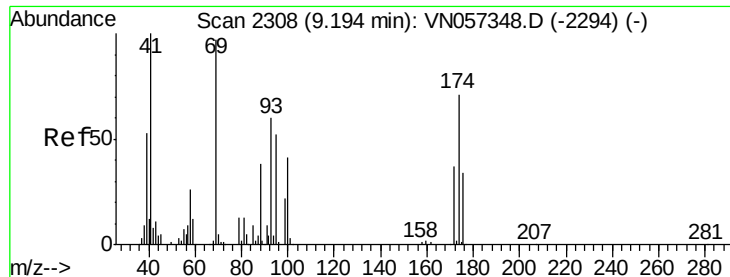
Tot Ion: 43 Resp: 178305
Ion Ratio Lower Upper
43 100
45 13.6 11.2 16.8



#44
Isopropyl Acetate
Concen: 19.046 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. -0.45 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion: 43 Resp: 291558
Ion Ratio Lower Upper
43 100
61 23.8 22.6 33.8

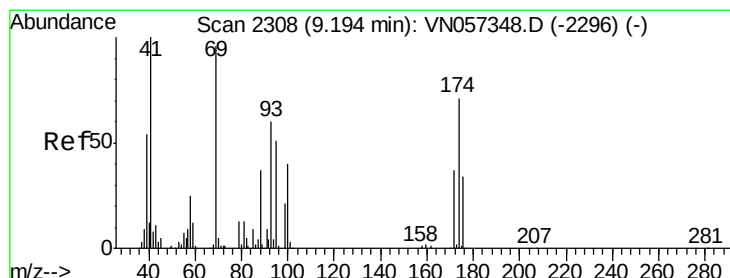
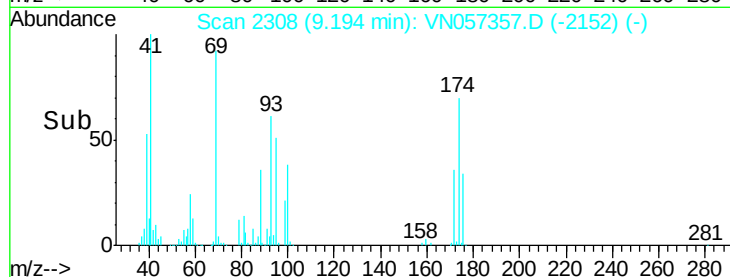
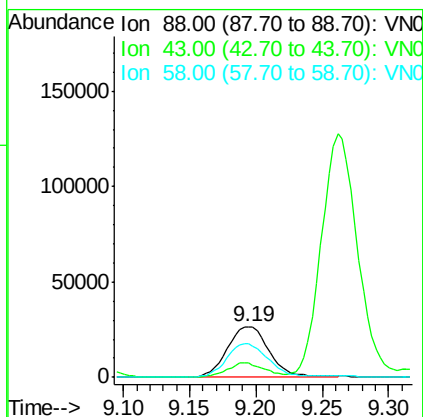
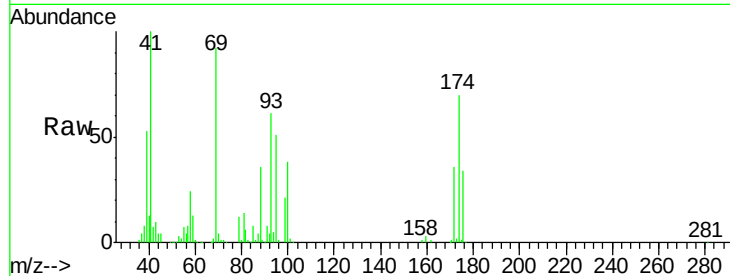




#45
 1,4-Dioxane
 Concen: 407.288 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

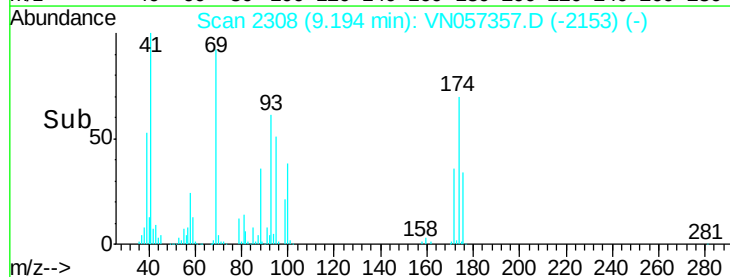
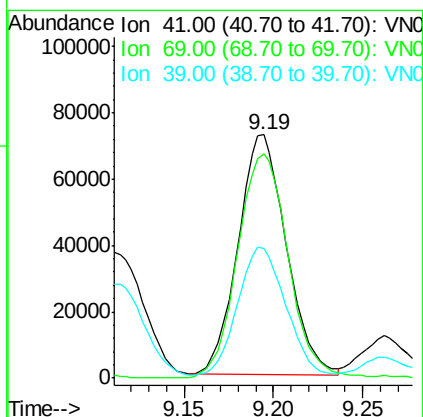
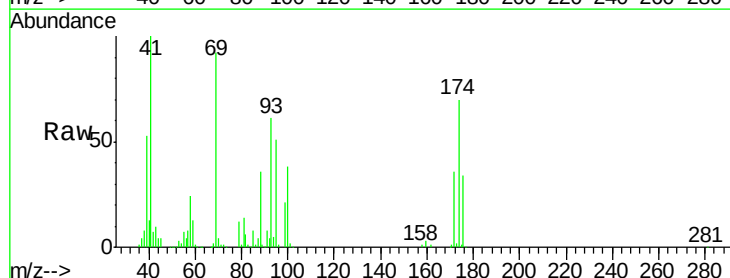
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

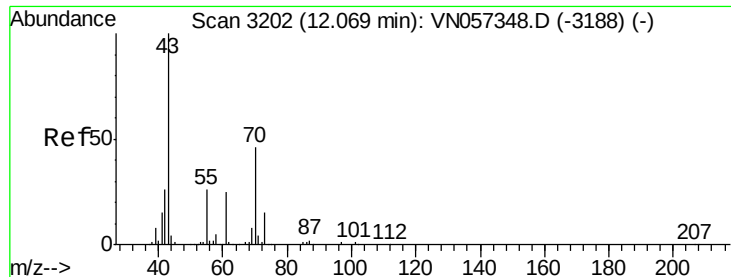
Tot Ion: 88 Resp: 58783
 Ion Ratio Lower Upper
 88 100
 43 25.0 23.0 34.6
 58 65.5 54.6 81.8



#46
 Methyl methacrylate
 Concen: 19.893 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

Tgt Ion: 41 Resp: 136581
 Ion Ratio Lower Upper
 41 100
 69 93.4 43.0 129.0
 39 52.9 25.1 75.4





#47

n-amvl Acetate

Concen: 18.487 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

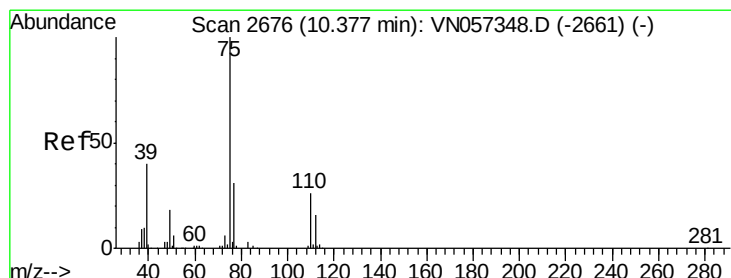
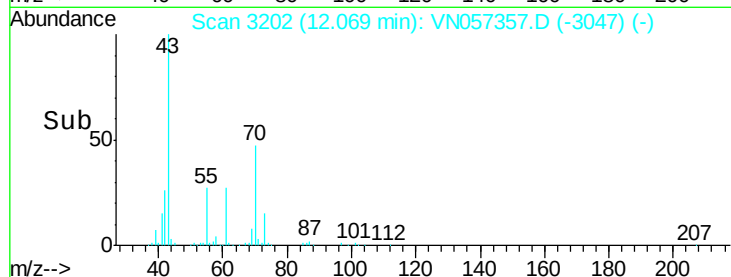
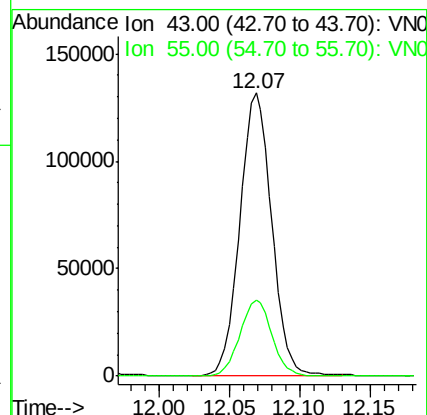
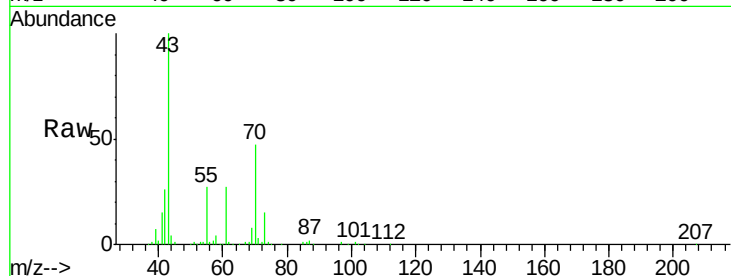
VSTDCCC020EC

Tot Ion: 43 Resp: 209148

Ion Ratio Lower Upper

43 100

55 27.0 20.7 31.1



#48

t-1,3-Dichloropropene

Concen: 19.853 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN057357.D

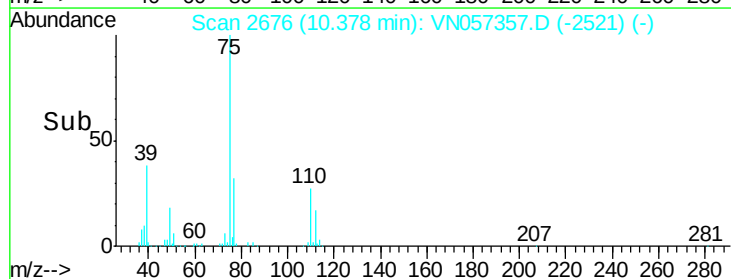
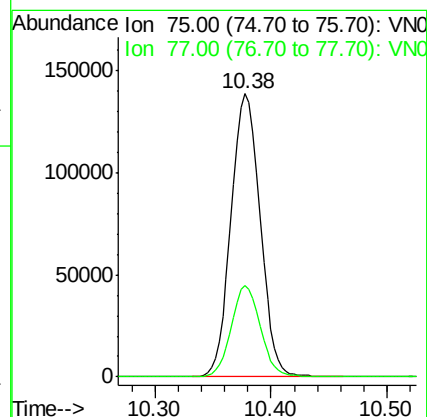
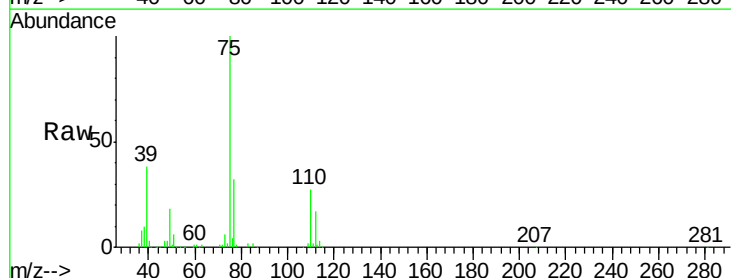
Acq: 16 Aug 2019 15:53

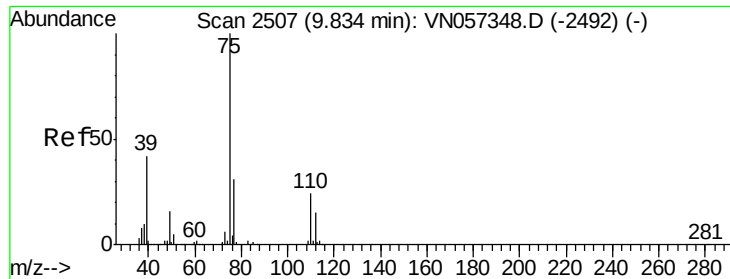
Tgt Ion: 75 Resp: 241299

Ion Ratio Lower Upper

75 100

77 32.3 25.7 38.5



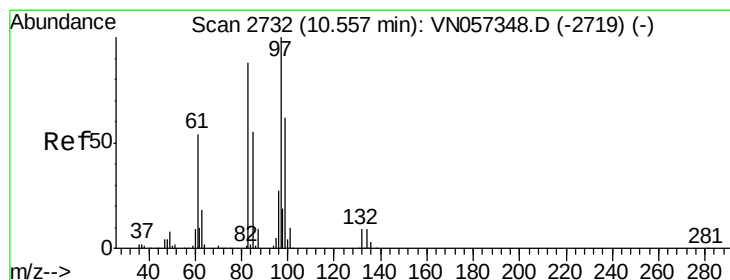
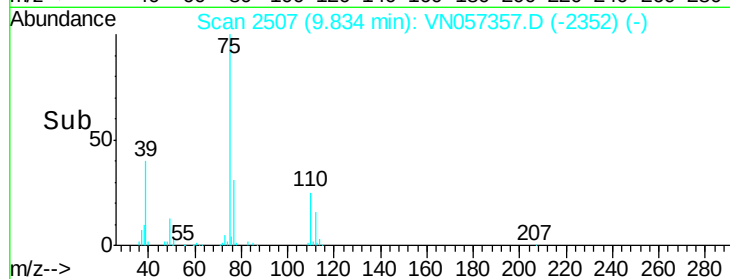
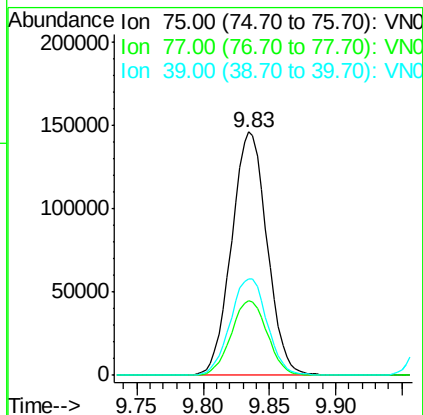
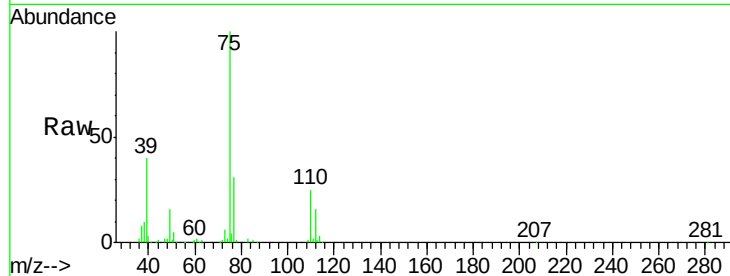


#49

cis-1,3-Dichloropropene
 Concen: 20.087 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. -0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

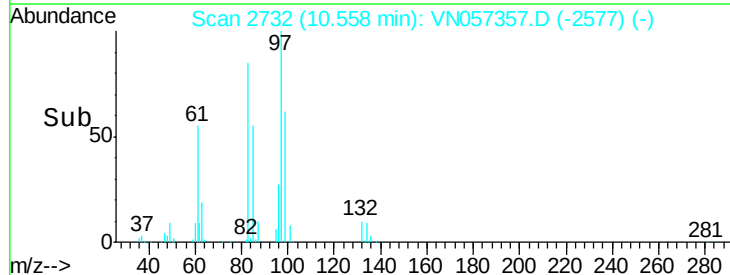
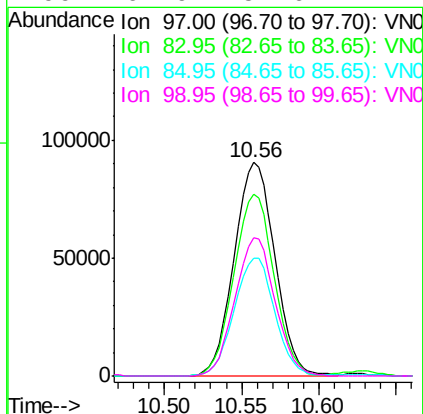
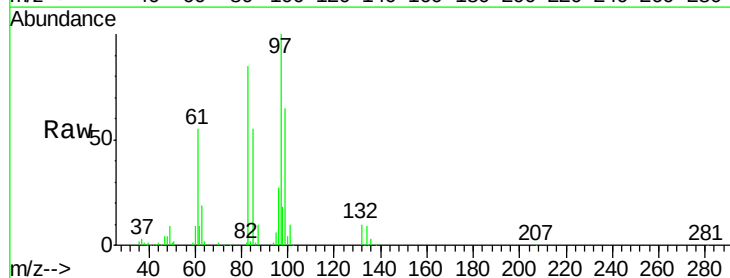
Tot Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.0	39.0
39	39.7	36.2	54.4

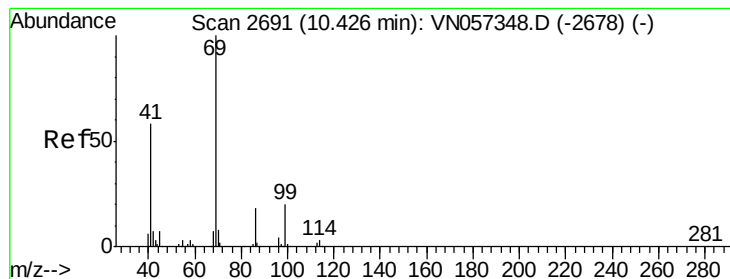


#50

1,1,2-Trichloroethane
 Concen: 20.541 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.2	103.8
85	55.2	45.3	67.9
99	64.9	51.6	77.4





#51

Ethyl methacrylate

Concen: 19.755 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

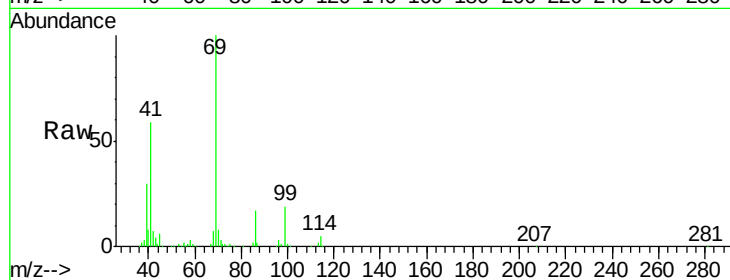
Tot Ion: 69 Resp: 231724

Ion Ratio Lower Upper

69 100

41 58.7 32.8 98.3

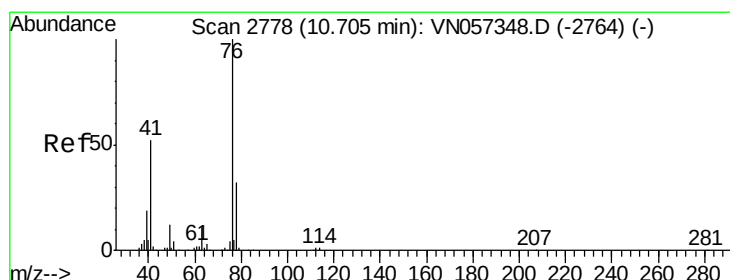
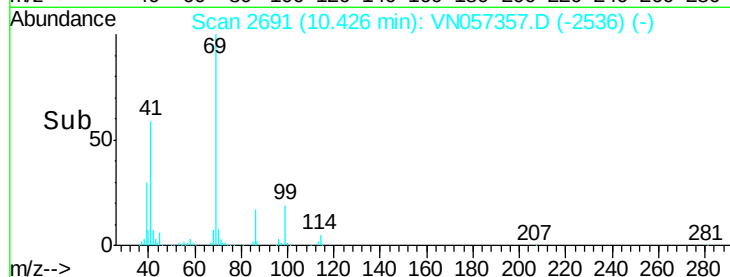
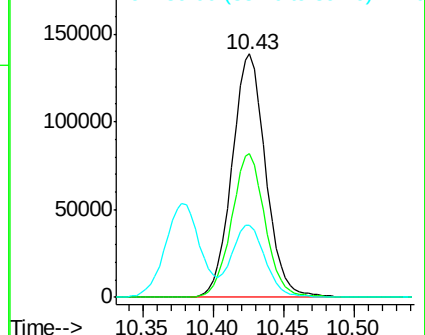
39 29.5 15.4 46.2



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: 20.763 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057357.D

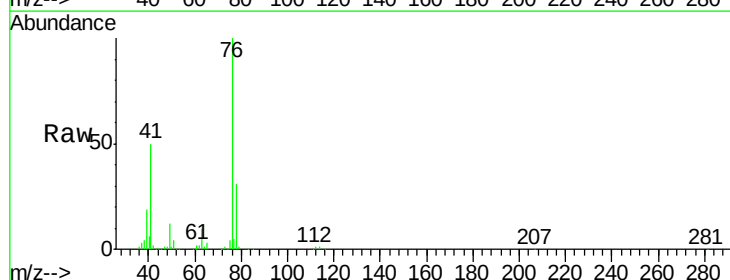
Acq: 16 Aug 2019 15:53

Tgt Ion: 76 Resp: 274374

Ion Ratio Lower Upper

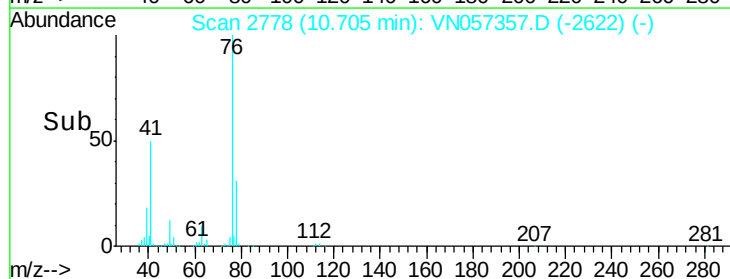
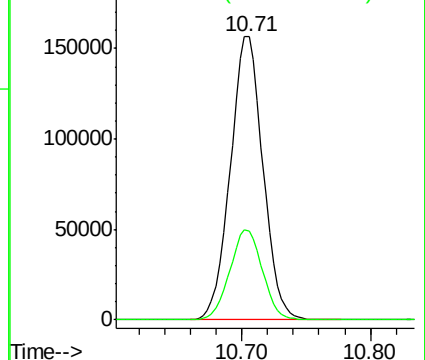
76 100

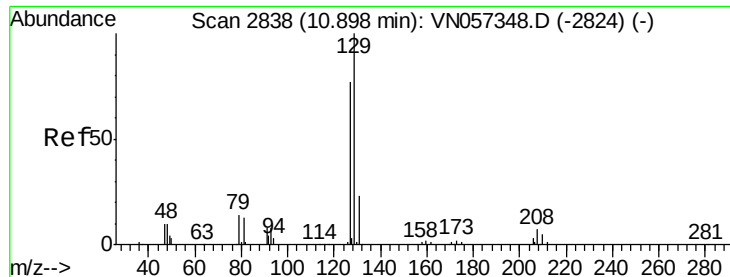
78 31.9 0.0 63.6



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 20.393 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

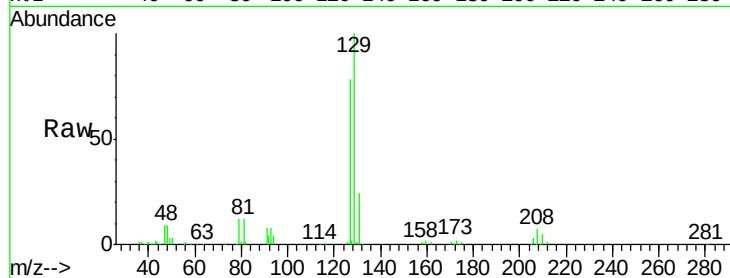
VSTDCCC020EC

Tot Ion:129 Resp: 189838

Ion Ratio Lower Upper

129 100

127 76.5 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

120000

100000

80000

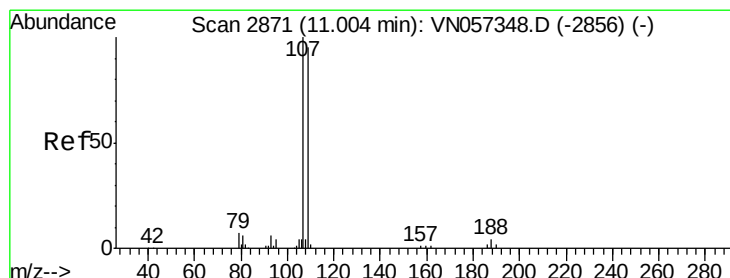
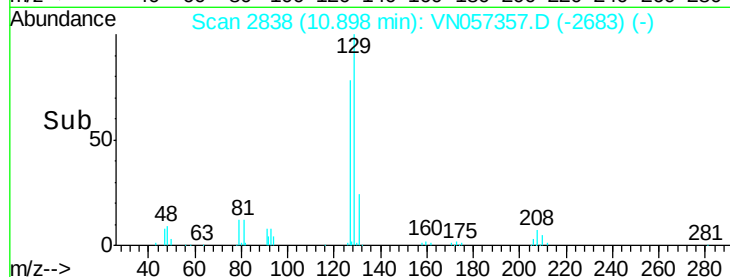
60000

40000

20000

0

Time-->



#54

1,2-Dibromoethane

Concen: 20.261 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VN057357.D

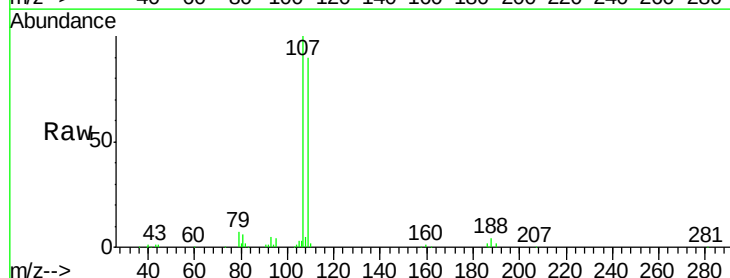
Acq: 16 Aug 2019 15:53

Tgt Ion:107 Resp: 172656

Ion Ratio Lower Upper

107 100

109 93.8 77.9 116.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

11.00

100000

80000

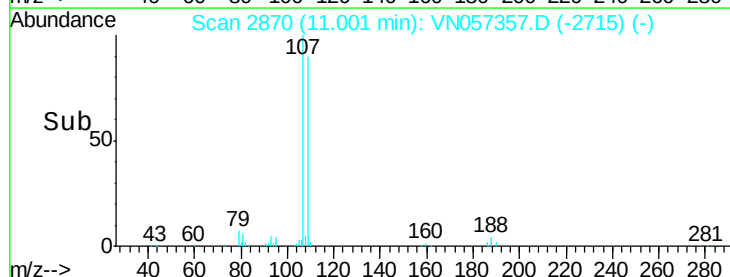
60000

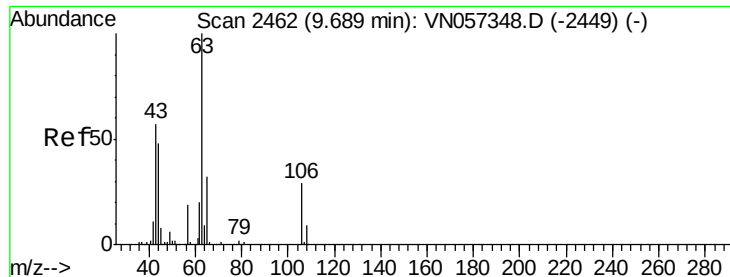
40000

20000

0

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 88.122 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

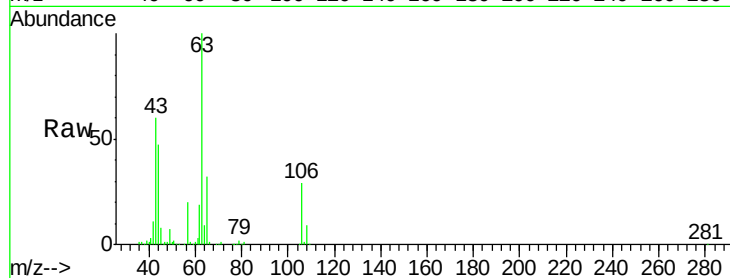
Tot Ion: 63 Resp: 240611

Ion Ratio Lower Upper

63 100

65 32.3 25.2 37.8

106 29.8 21.6 32.4

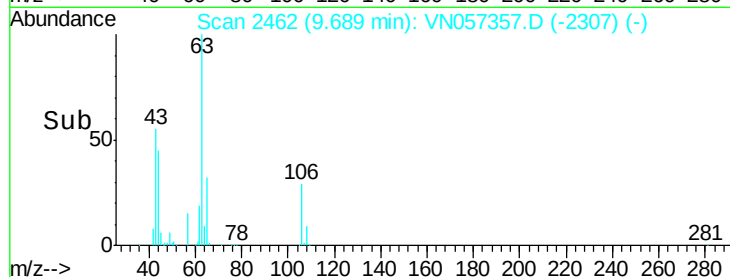


Abundance Ion 63.00 (62.70 to 63.70): VN057348.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN057348.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN057348.D (-2449) (-)

Time-->

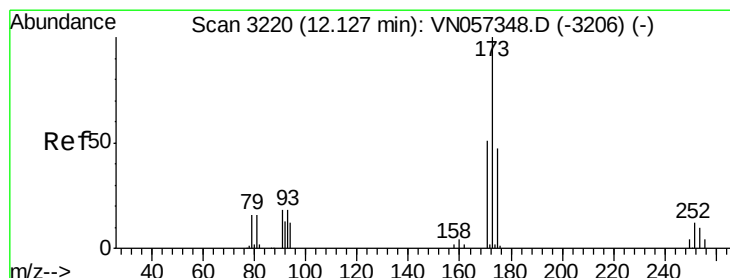


Abundance Ion 63.00 (62.70 to 63.70): VN057357.D (-2307) (-)

Ion 65.00 (64.70 to 65.70): VN057357.D (-2307) (-)

Ion 106.00 (105.70 to 106.70): VN057357.D (-2307) (-)

Time-->



#56

Bromoform

Concen: 19.349 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

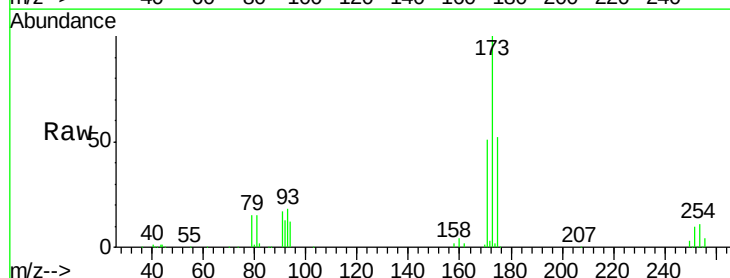
Tgt Ion: 173 Resp: 136013

Ion Ratio Lower Upper

173 100

175 49.3 39.7 59.5

254 10.7 7.8 11.8

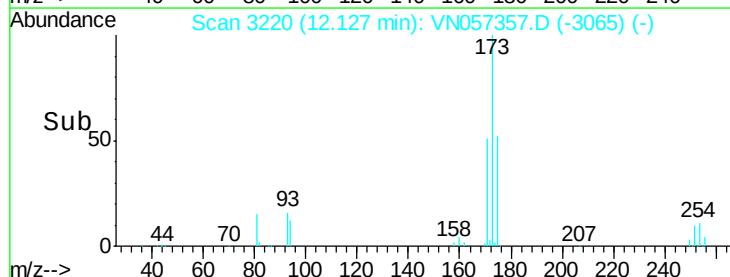


Abundance Ion 173.00 (172.70 to 173.70): VN057348.D (-3206) (-)

Ion 175.00 (174.70 to 175.70): VN057348.D (-3206) (-)

Ion 254.00 (253.70 to 254.70): VN057348.D (-3206) (-)

Time-->

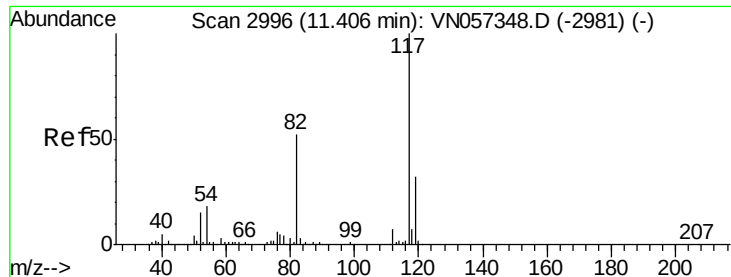


Abundance Ion 173.00 (172.70 to 173.70): VN057357.D (-3065) (-)

Ion 175.00 (174.70 to 175.70): VN057357.D (-3065) (-)

Ion 254.00 (253.70 to 254.70): VN057357.D (-3065) (-)

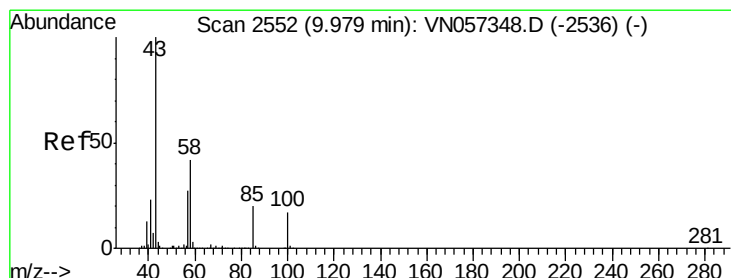
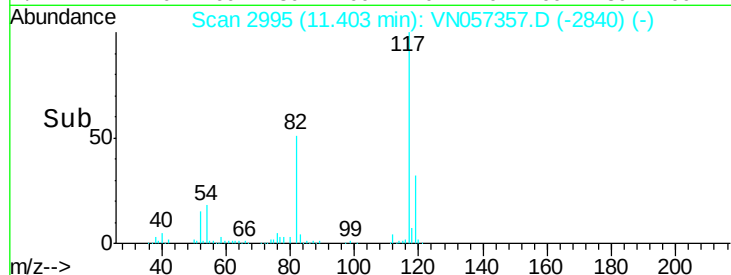
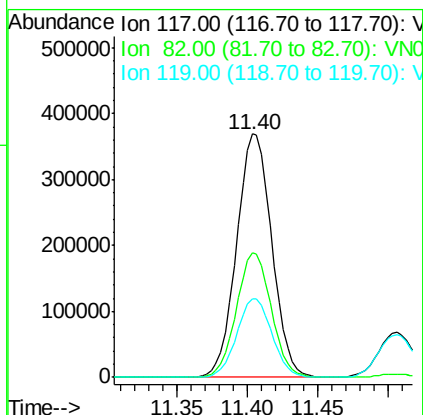
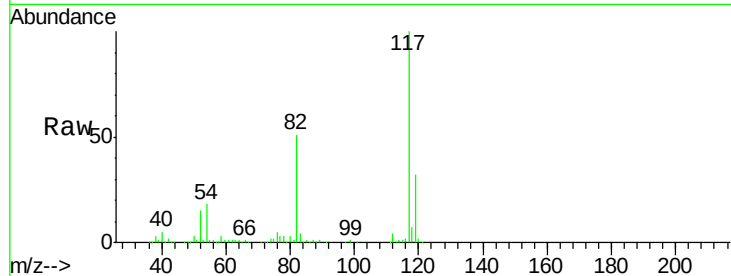
Time-->



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

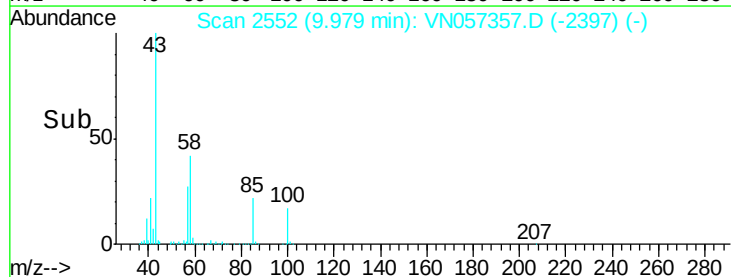
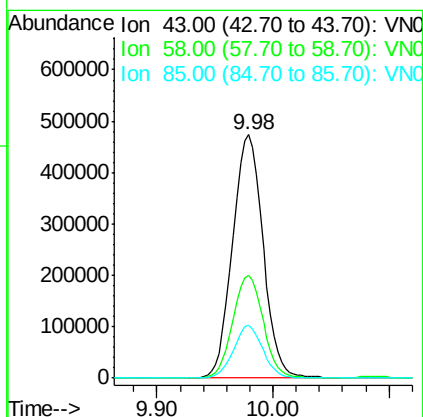
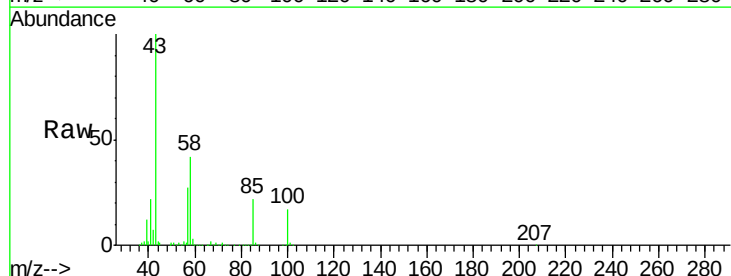
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

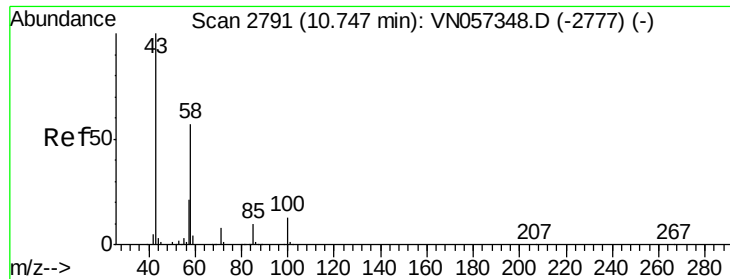
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.8	43.0	64.4
119	32.2	26.0	39.0



#58
4-Methyl-2-Pentanone
Concen: 102.472 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.0	31.9	47.9
85	20.9	14.2	21.4

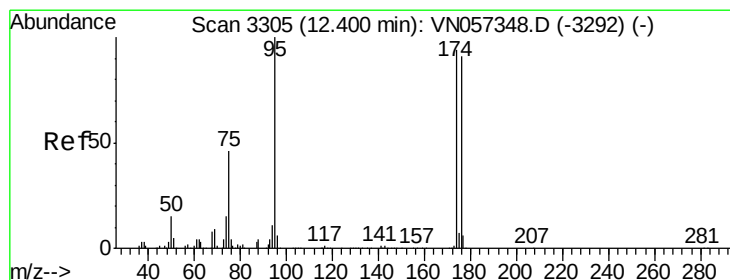
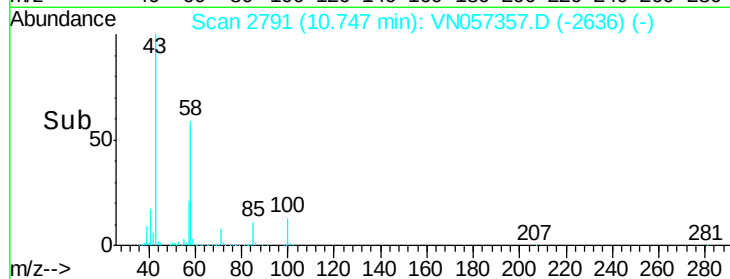
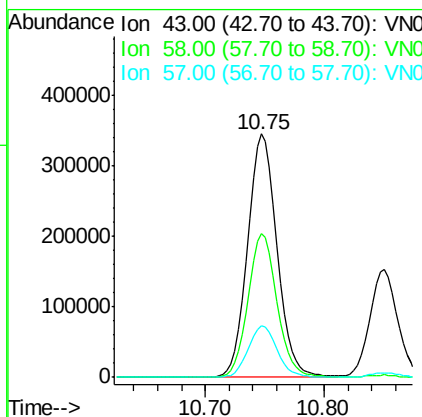
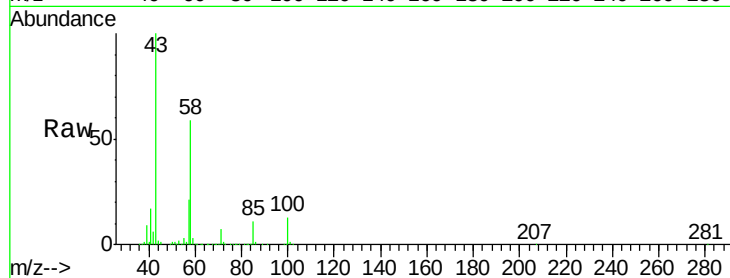




#59
2-Hexanone
Concen: 98.223 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

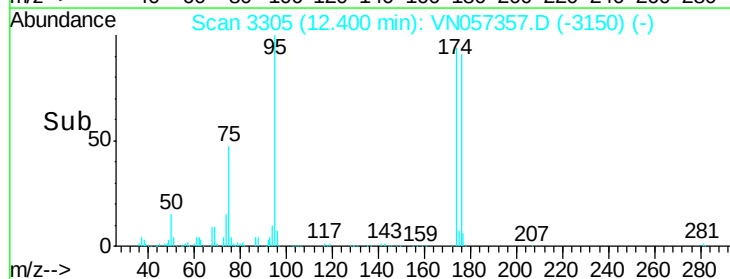
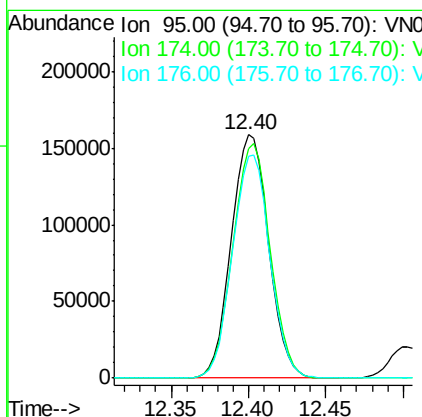
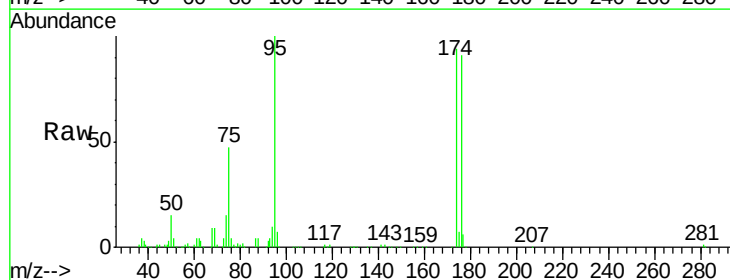
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

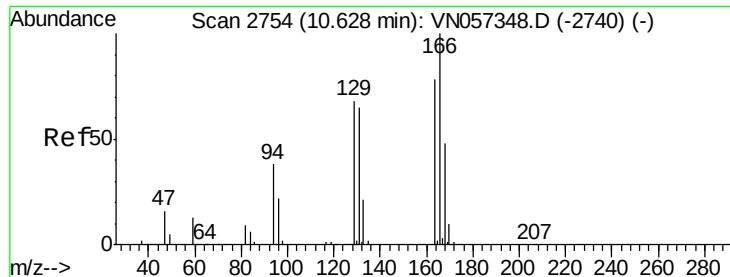
Tot Ion: 43 Resp: 591926
Ion Ratio Lower Upper
43 100
58 58.3 44.4 66.6
57 20.9 15.2 22.8



#60
4-Bromofluorobenzene
Concen: 28.012 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion: 95 Resp: 266048
Ion Ratio Lower Upper
95 100
174 96.6 72.6 108.8
176 92.0 71.0 106.6





#61

Tetrachloroethene

Concen: 20.311 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 192013

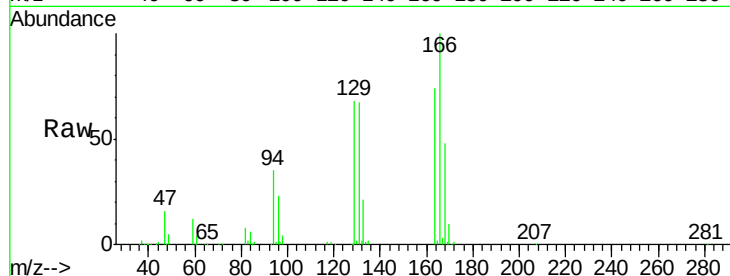
Ion Ratio Lower Upper

164 100

166 134.3 102.3 153.5

129 91.2 72.6 108.8

131 89.6 71.4 107.2

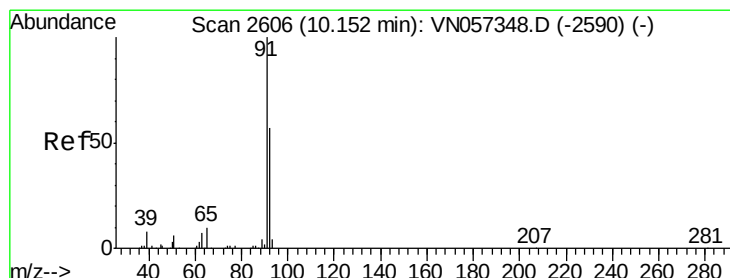
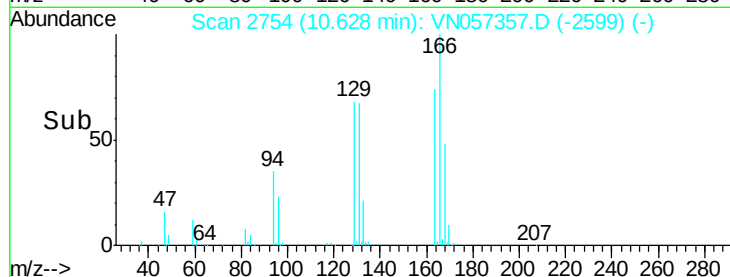
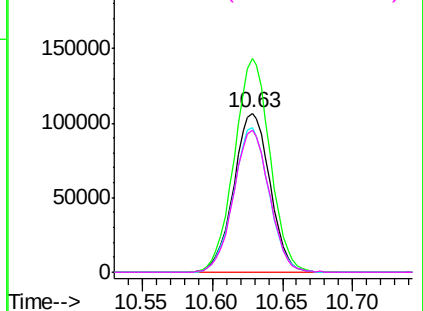


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.459 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN057357.D

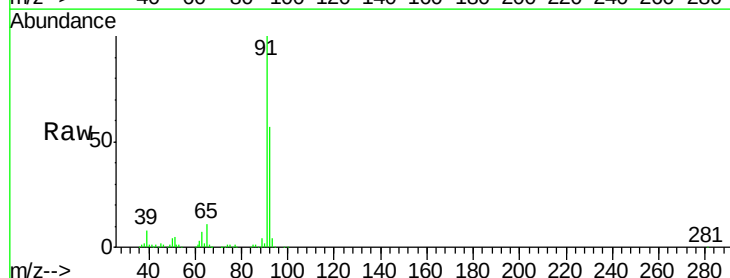
Acq: 16 Aug 2019 15:53

Tgt Ion: 91 Resp: 727840

Ion Ratio Lower Upper

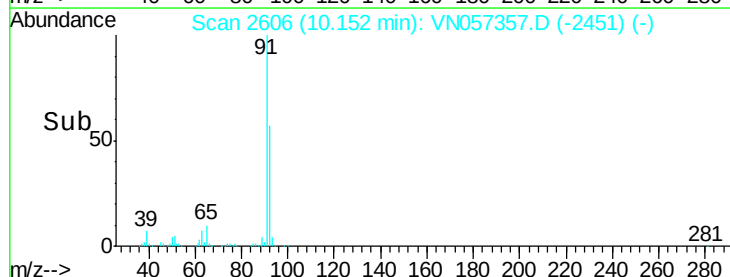
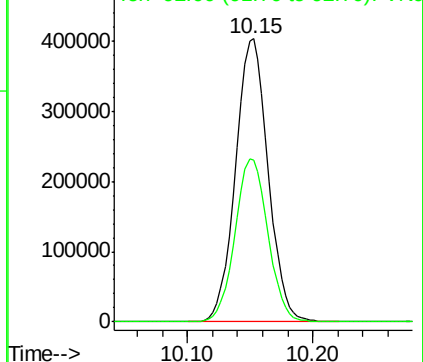
91 100

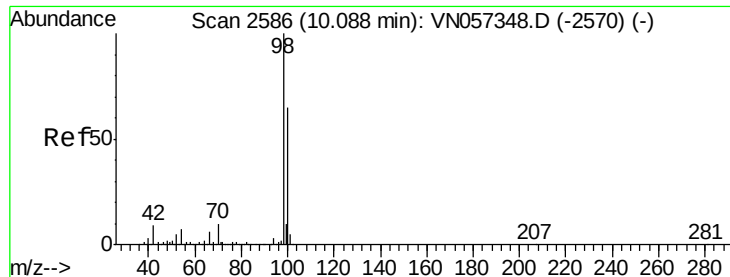
92 58.1 46.7 70.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.716 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

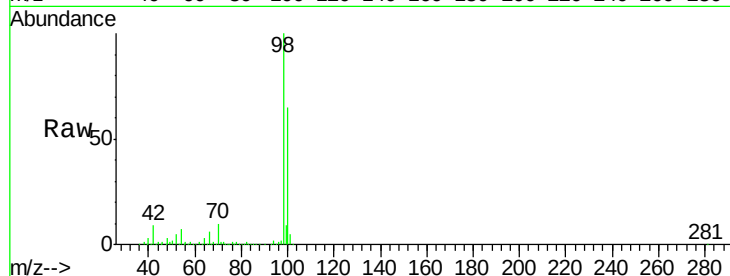
VSTDCCC020EC

Tot Ion: 98 Resp: 893616

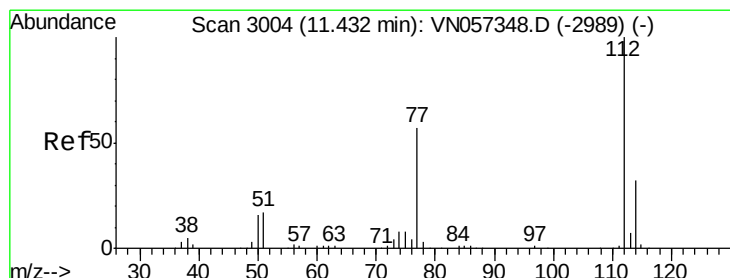
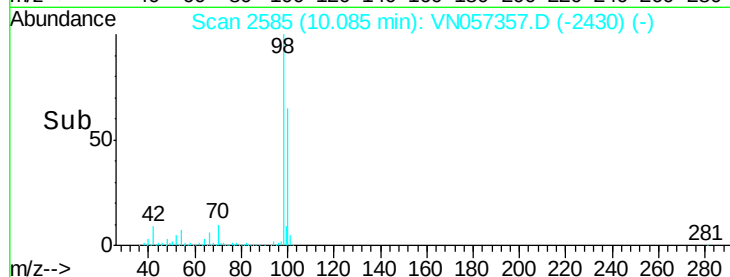
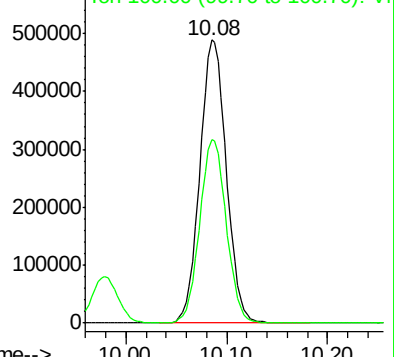
Ion Ratio Lower Upper

98 100

100 65.2 51.1 76.7



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



#64

Chlorobenzene

Concen: 20.221 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN057357.D

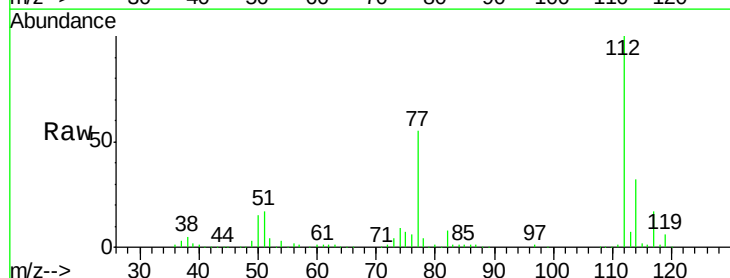
Acq: 16 Aug 2019 15:53

Tgt Ion: 112 Resp: 451907

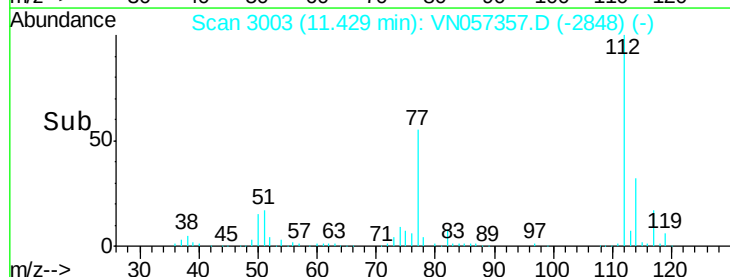
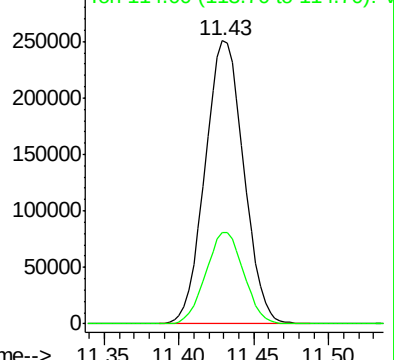
Ion Ratio Lower Upper

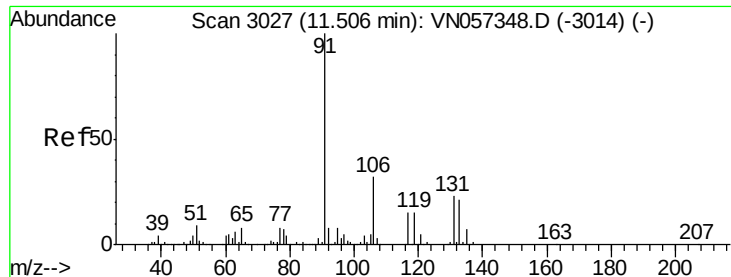
112 100

114 32.3 25.3 37.9



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





#65

1,1,1,2-Tetrachloroethane

Concen: 20.324 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

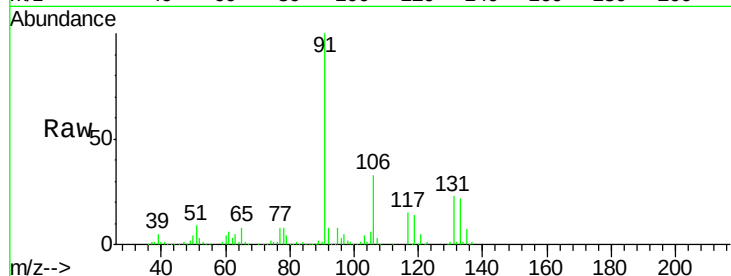
Tot Ion:131 Resp: 176554

Ion Ratio Lower Upper

131 100

133 96.8 0.0 191.4

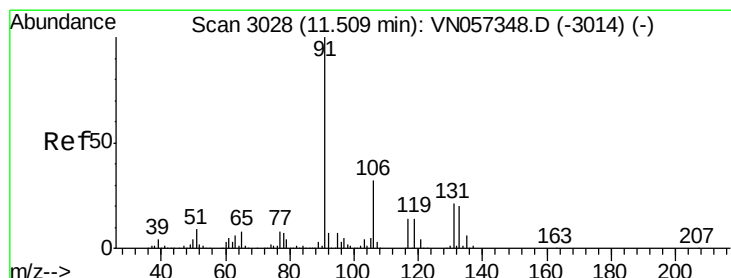
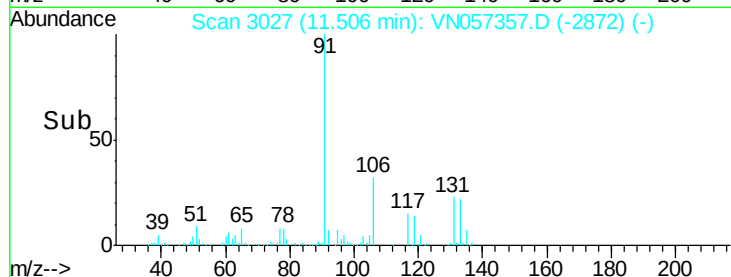
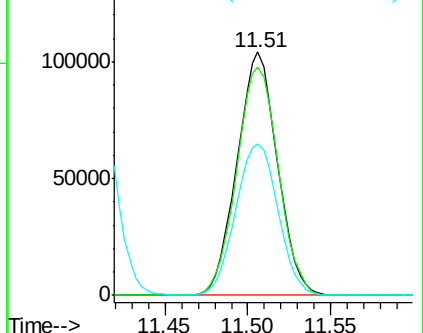
119 65.3 0.0 133.4



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: 19.964 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN057357.D

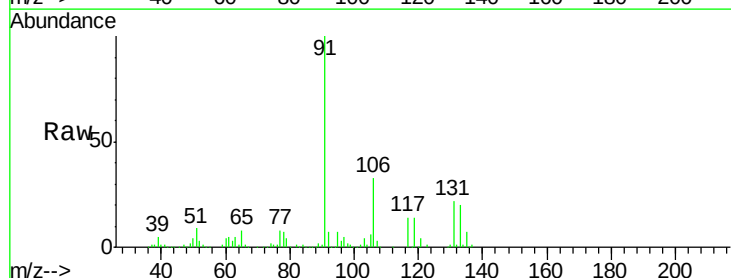
Acq: 16 Aug 2019 15:53

Tgt Ion: 91 Resp: 775954

Ion Ratio Lower Upper

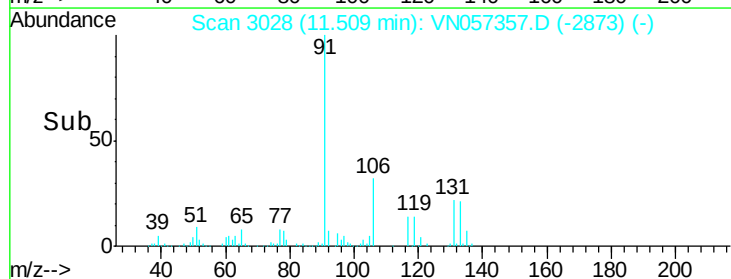
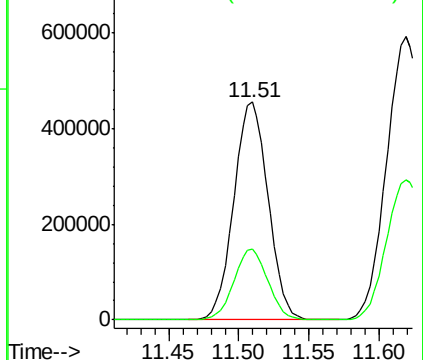
91 100

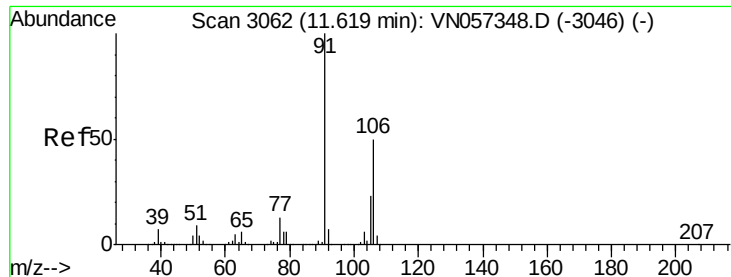
106 32.5 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

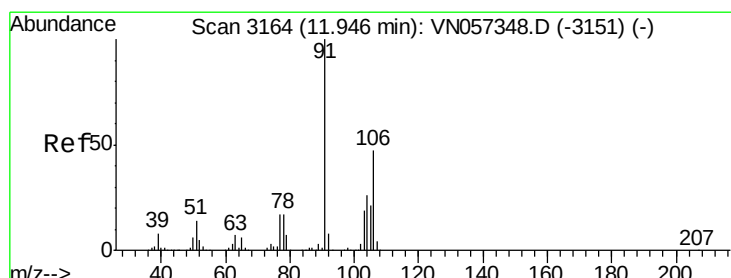
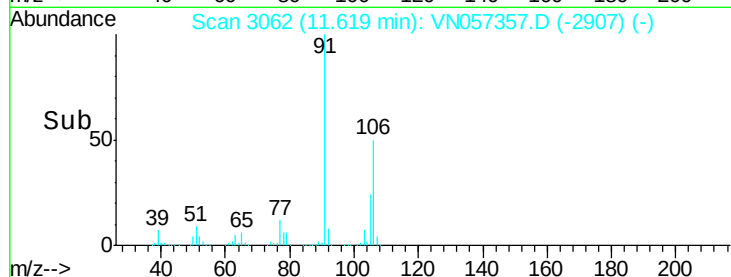
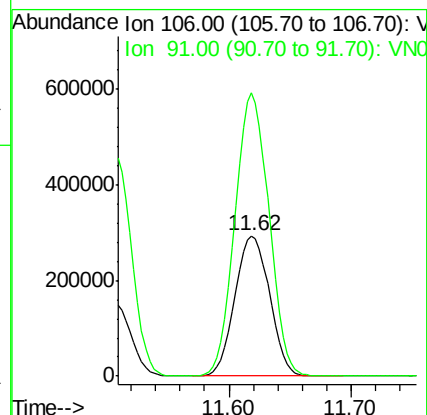
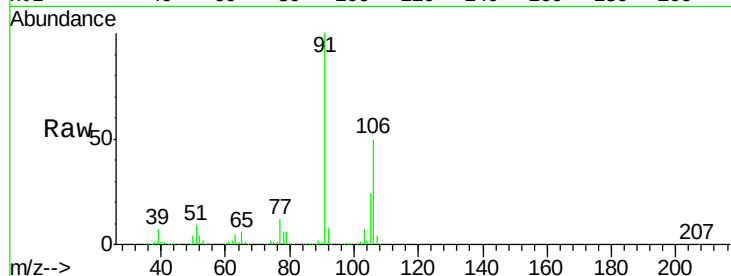




#67
m/p-Xylenes
Concen: 39.897 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

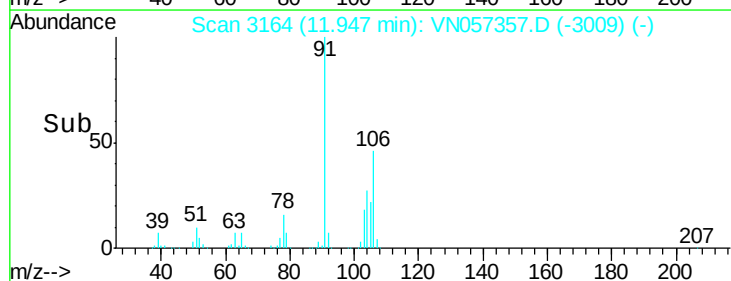
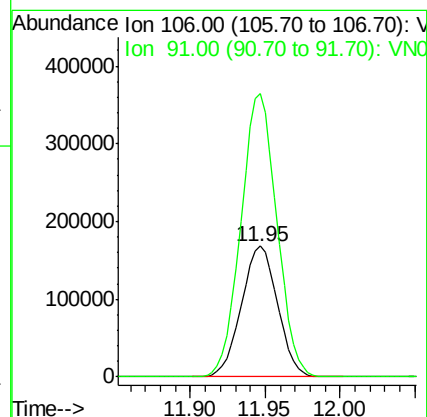
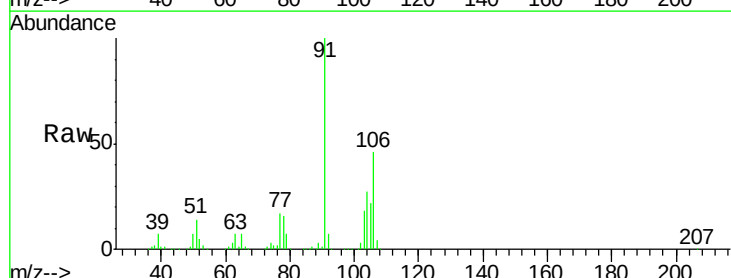
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

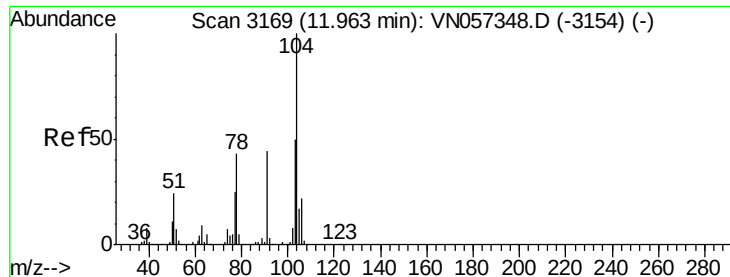
Tot Ion:106 Resp: 580378
Ion Ratio Lower Upper
106 100
91 197.2 161.8 242.8



#68
o-Xylene
Concen: 19.959 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion:106 Resp: 283840
Ion Ratio Lower Upper
106 100
91 214.7 108.1 324.2





#69

Stvrene

Concen: 19.195 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

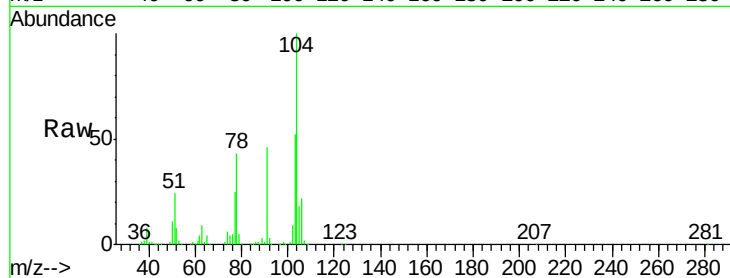
Tot Ion:104 Resp: 438540

Ion Ratio Lower Upper

104 100

78 48.5 38.7 58.1

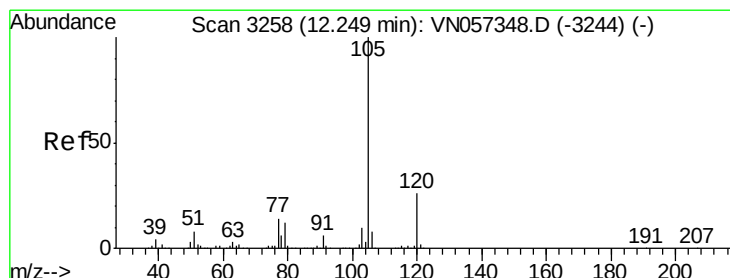
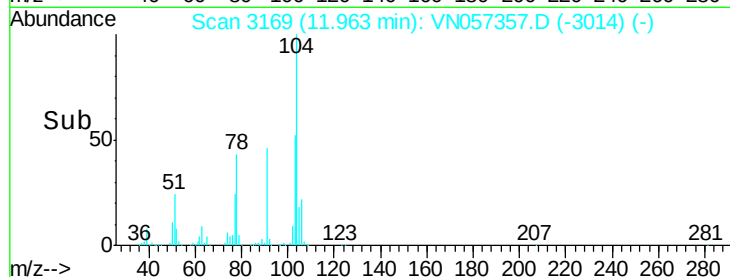
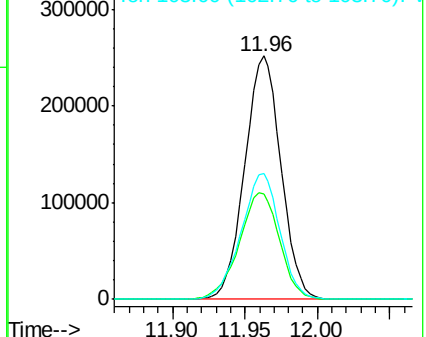
103 55.3 45.0 67.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 20.079 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN057357.D

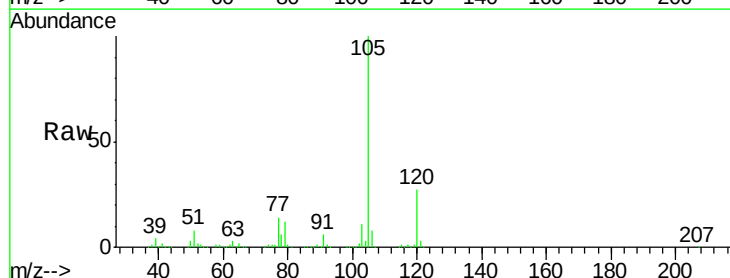
Acq: 16 Aug 2019 15:53

Tgt Ion:105 Resp: 765535

Ion Ratio Lower Upper

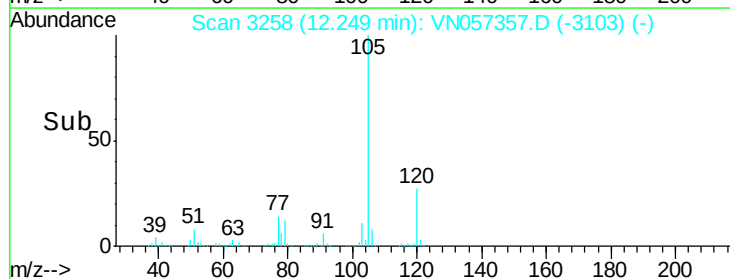
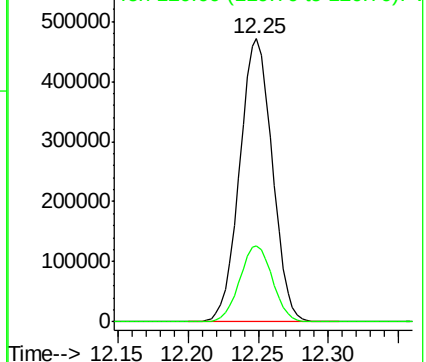
105 100

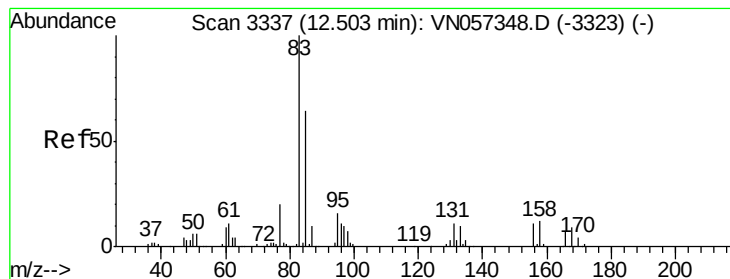
120 26.8 18.6 34.5



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: 20.623 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

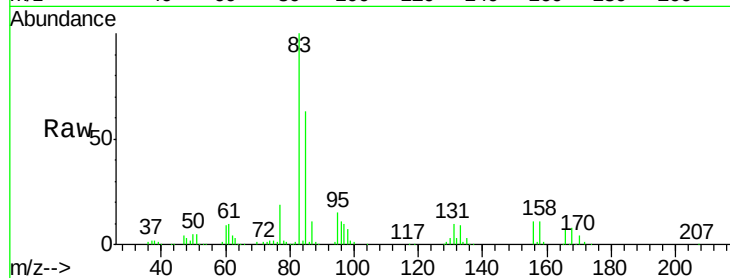
Tot Ion: 83 Resp: 215381

Ion Ratio Lower Upper

83 100

131 10.5 5.1 15.3

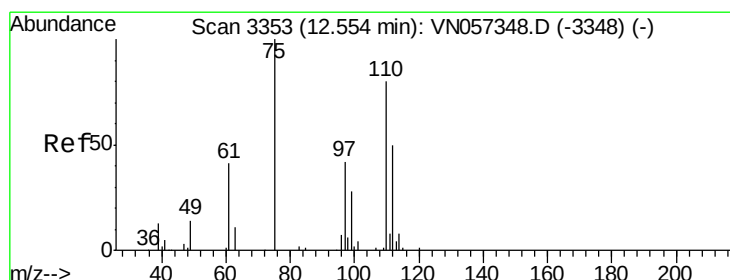
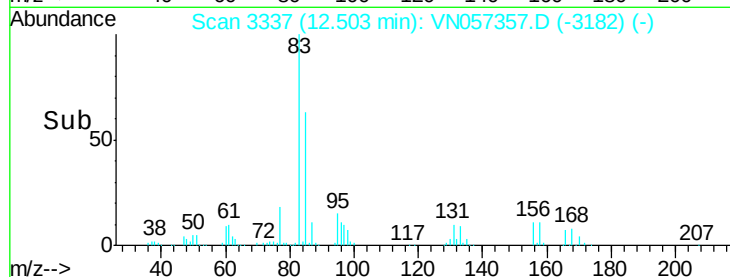
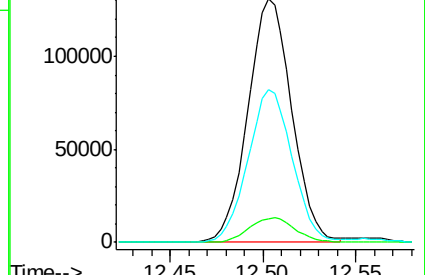
85 63.3 31.9 95.7



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 21.539 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057357.D

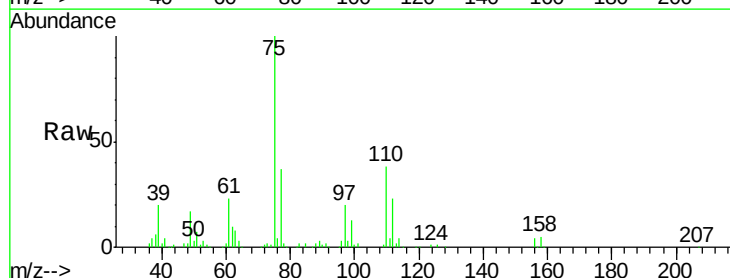
Acq: 16 Aug 2019 15:53

Tgt Ion: 75 Resp: 189834

Ion Ratio Lower Upper

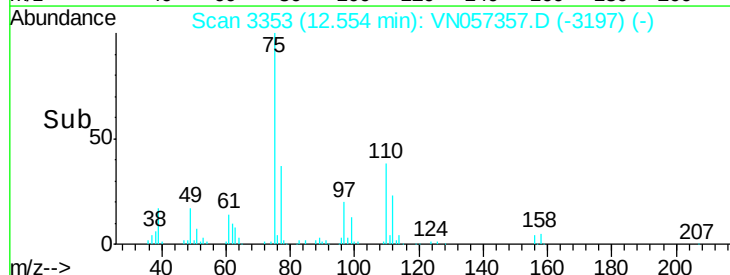
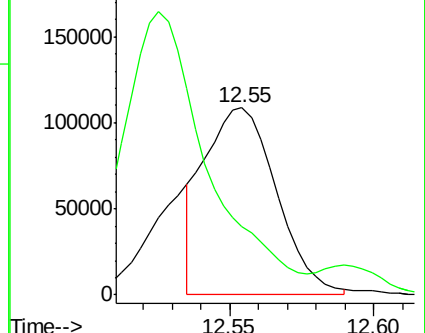
75 100

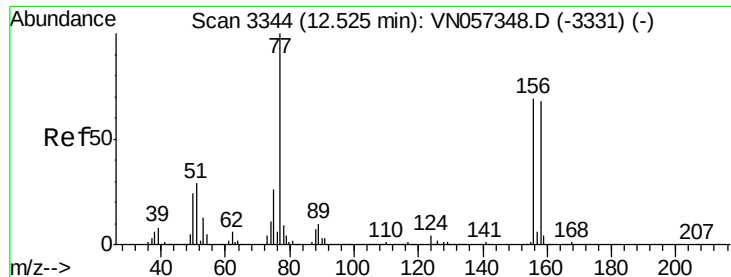
77 179.5 0.0 352.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 18.987 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

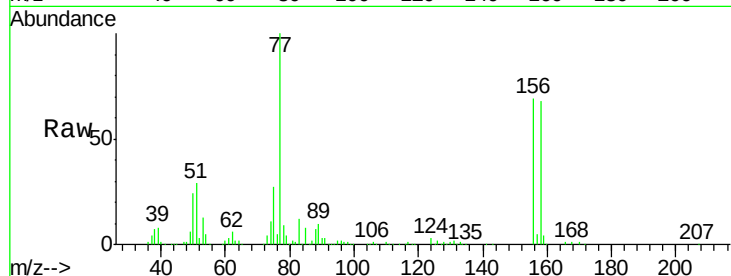
Tot Ion:156 Resp: 191829

Ion Ratio Lower Upper

156 100

77 177.6 0.0 381.8

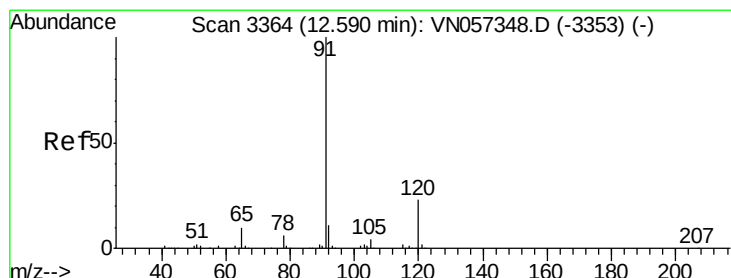
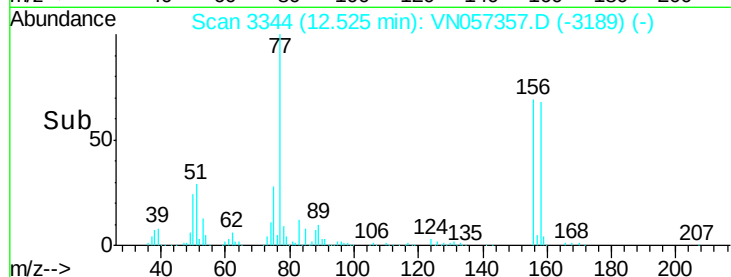
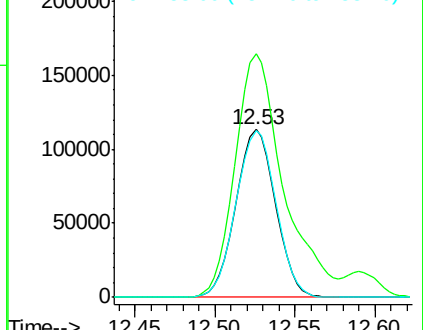
158 100.2 0.0 195.8



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: 18.746 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN057357.D

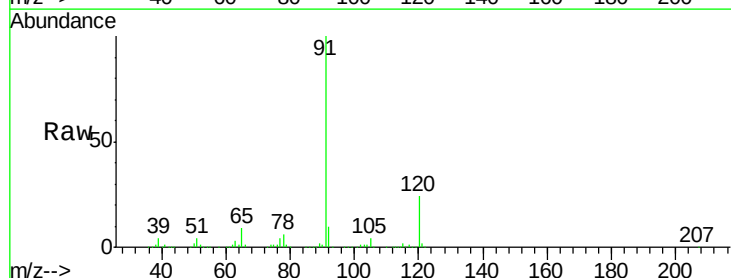
Acq: 16 Aug 2019 15:53

Tgt Ion: 91 Resp: 742389

Ion Ratio Lower Upper

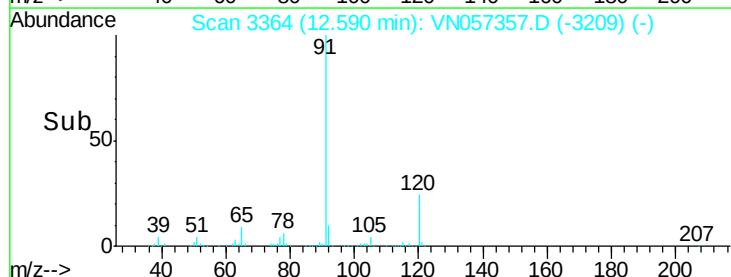
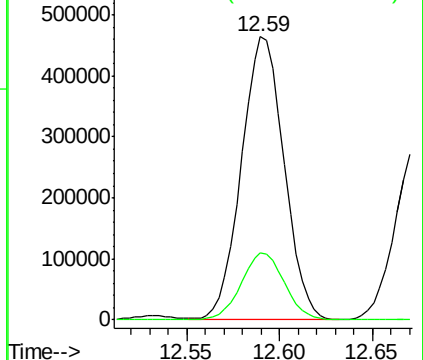
91 100

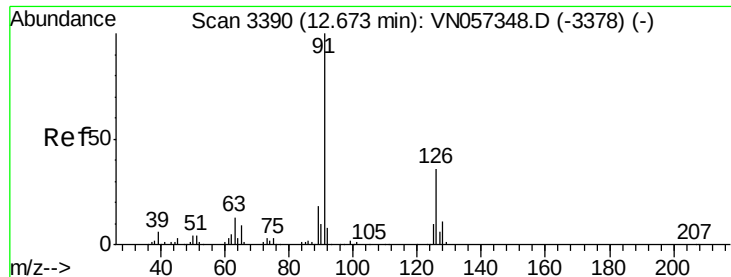
120 23.9 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.522 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

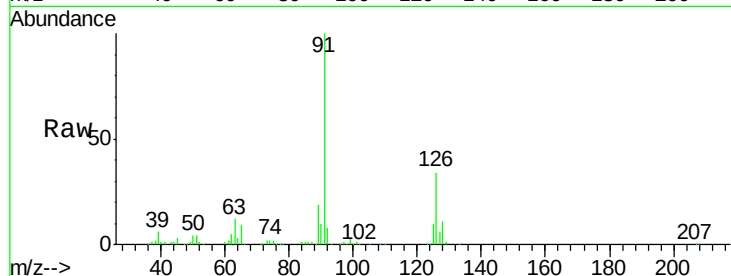
VSTDCCC020EC

Tot Ion: 91 Resp: 479759

Ion Ratio Lower Upper

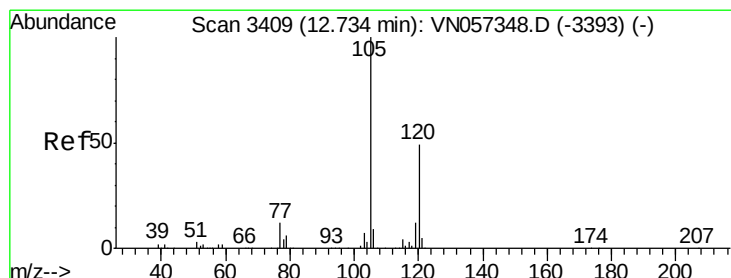
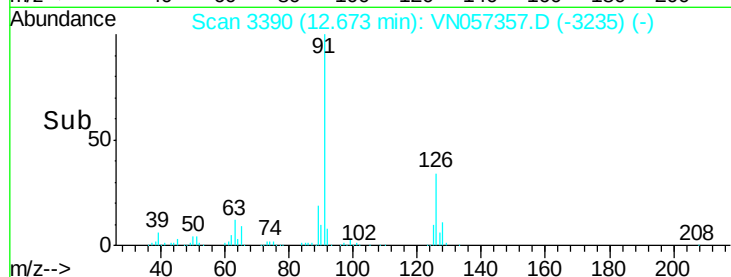
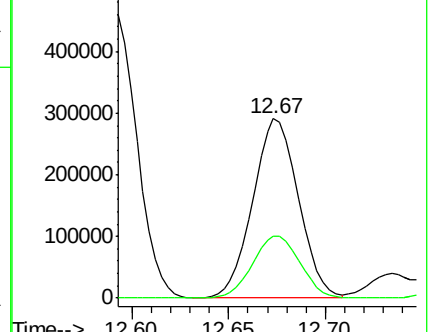
91 100

126 35.7 0.0 69.8



Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN057348.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.581 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057357.D

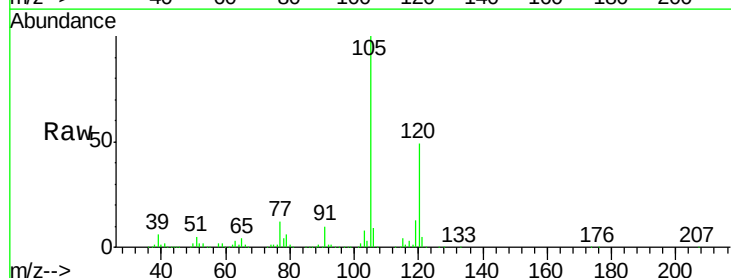
Acq: 16 Aug 2019 15:53

Tgt Ion: 105 Resp: 620900

Ion Ratio Lower Upper

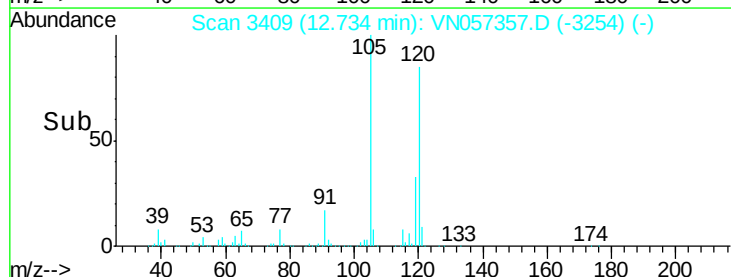
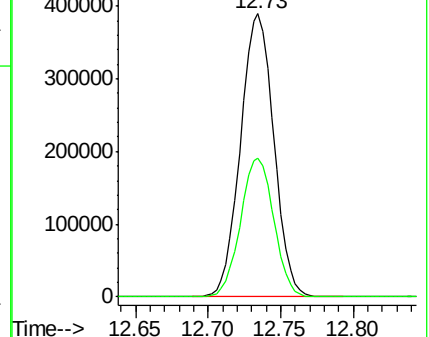
105 100

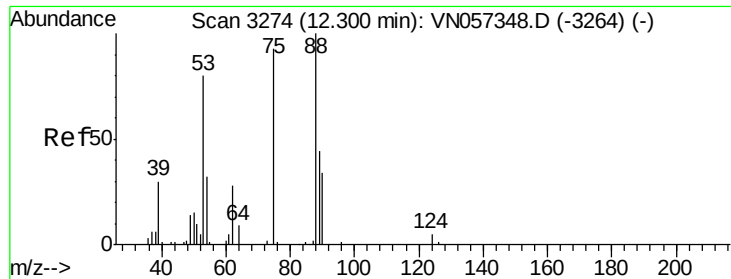
120 49.2 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): VN057348.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057348.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 18.896 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

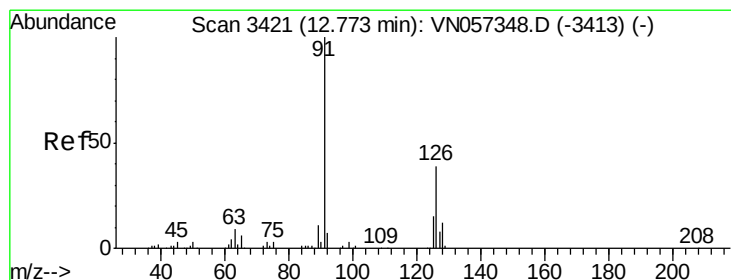
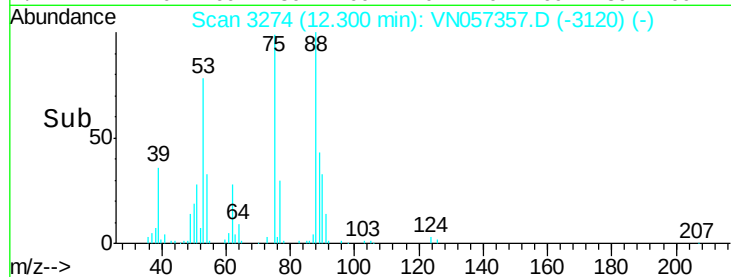
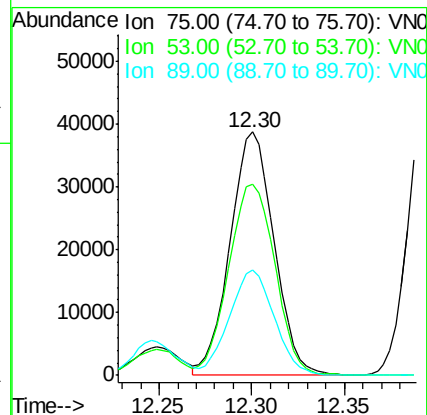
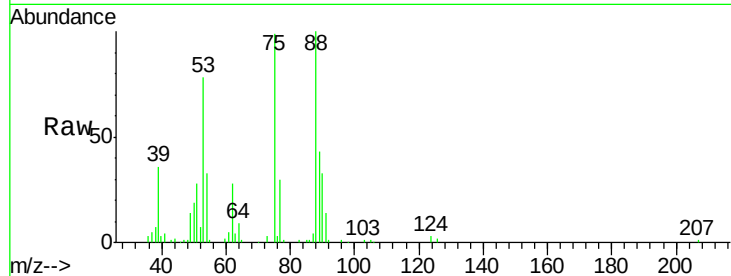
Tot Ion: 75 Resp: 63906

Ion Ratio Lower Upper

75 100

53 78.4 48.6 145.8

89 43.1 21.3 64.0



#78

4-Chlorotoluene

Concen: 18.407 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN057357.D

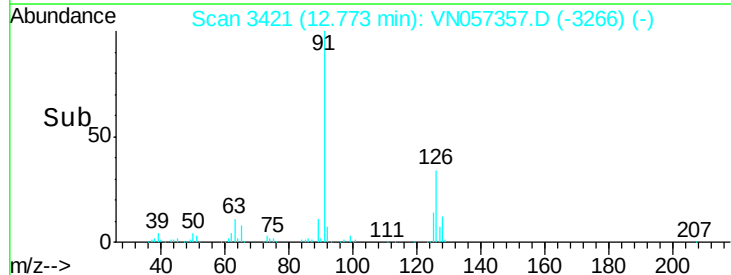
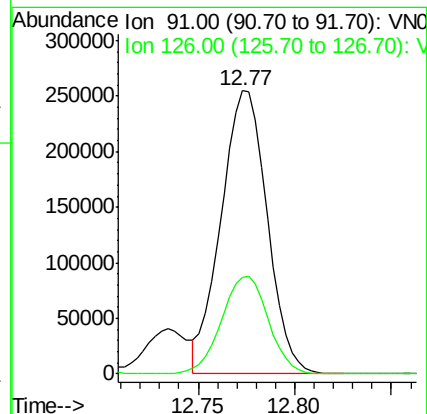
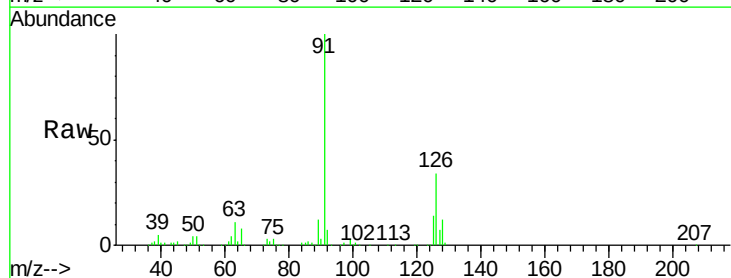
Acq: 16 Aug 2019 15:53

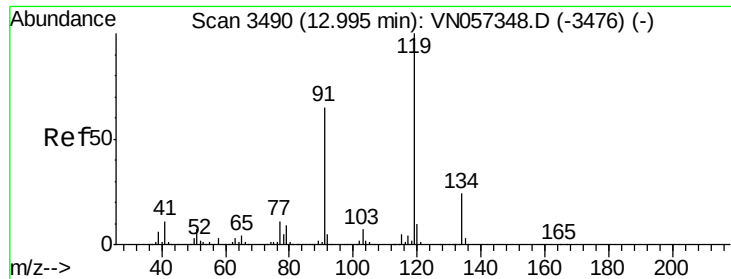
Tgt Ion: 91 Resp: 423242

Ion Ratio Lower Upper

91 100

126 35.0 0.0 69.4

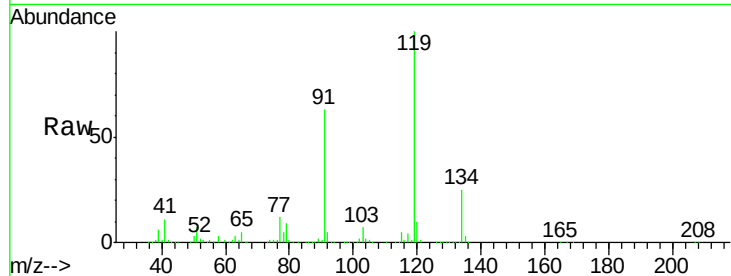




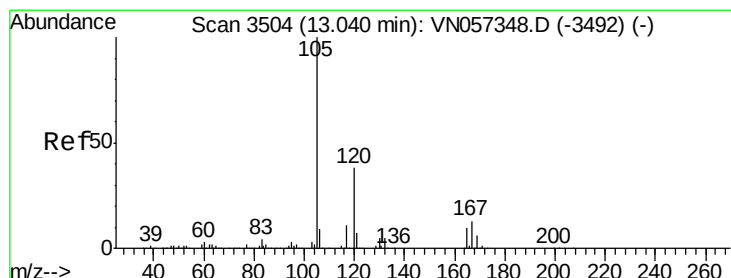
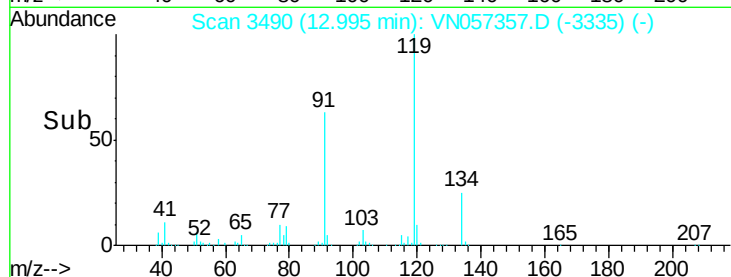
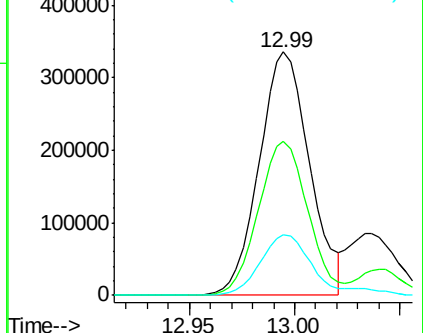
#79
tert-butylbenzene
Concen: 19.718 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:119 Resp: 557153
Ion Ratio Lower Upper
119 100
91 62.3 0.0 125.4
134 25.2 0.0 48.4

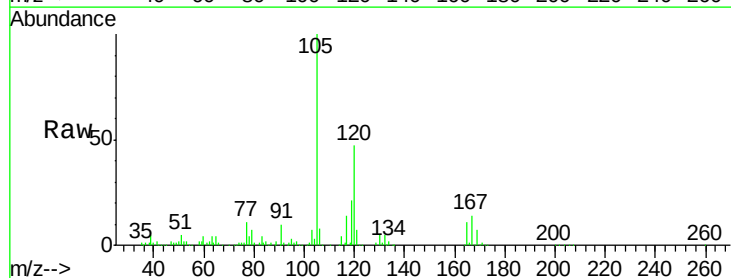


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

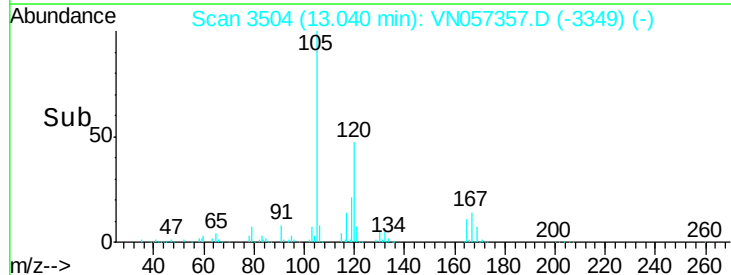
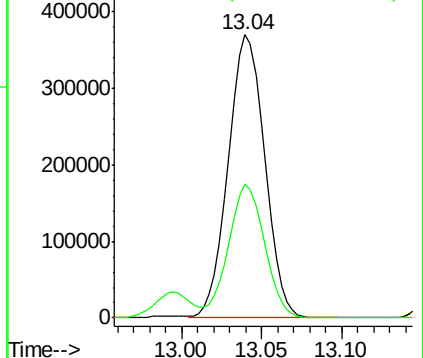


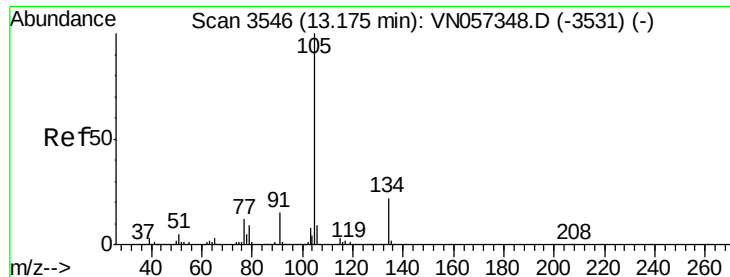
#80
1,2,4-Trimethylbenzene
Concen: 19.281 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN057357.D
Acq: 16 Aug 2019 15:53

Tgt Ion:105 Resp: 576699
Ion Ratio Lower Upper
105 100
120 46.3 0.0 91.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 18.597 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

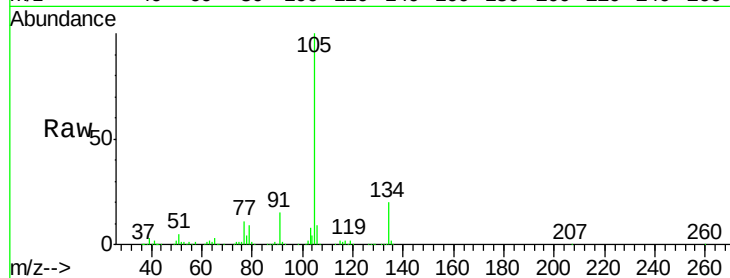
VSTDCCC020EC

Tot Ion:105 Resp: 647753

Ion Ratio Lower Upper

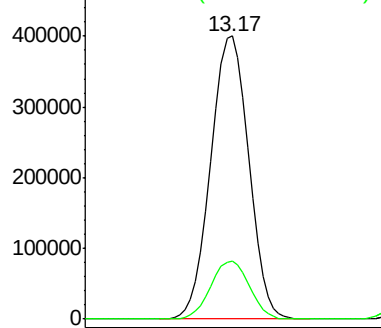
105 100

134 20.9 0.0 40.8

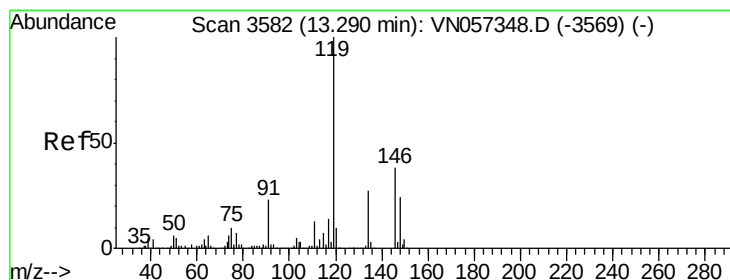
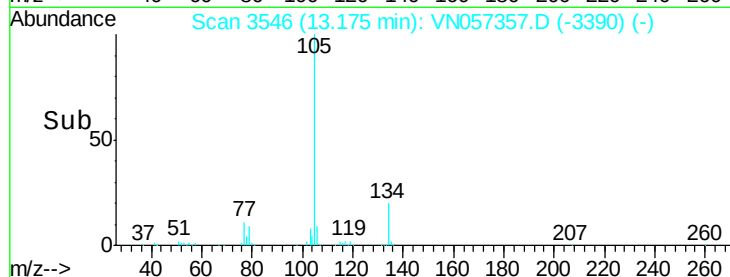


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time--> 13.10 13.15 13.20 13.25



#82

p-Isopropyltoluene

Concen: 18.265 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

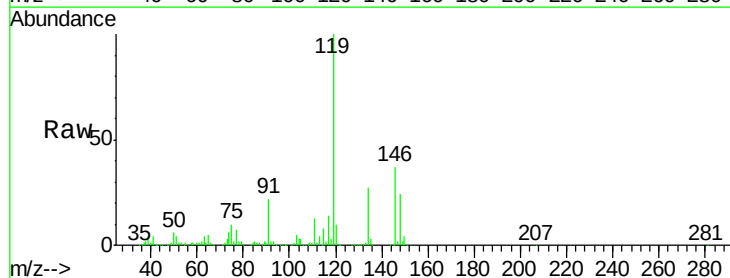
Tgt Ion:119 Resp: 569950

Ion Ratio Lower Upper

119 100

134 26.6 0.0 52.8

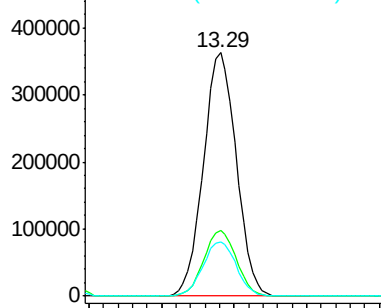
91 22.6 0.0 45.4



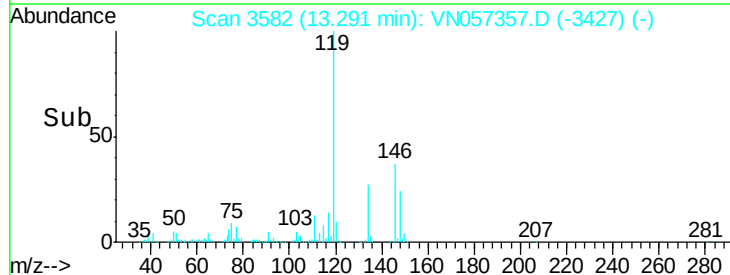
Abundance Ion 119.00 (118.70 to 119.70): V

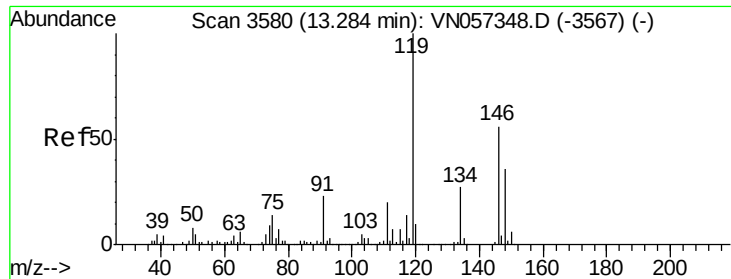
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time--> 13.20 13.25 13.30 13.35





#83

1,3-Dichlorobenzene

Concen: 17.677 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

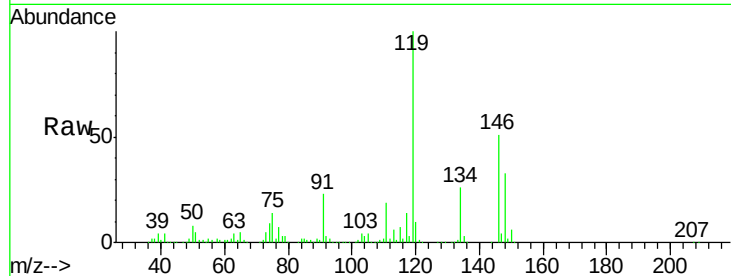
Tot Ion:146 Resp: 261603

Ion Ratio Lower Upper

146 100

111 37.1 18.7 56.1

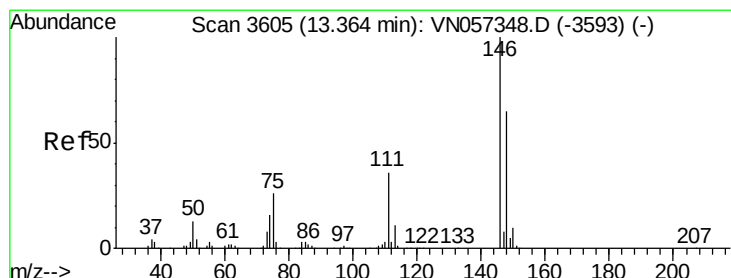
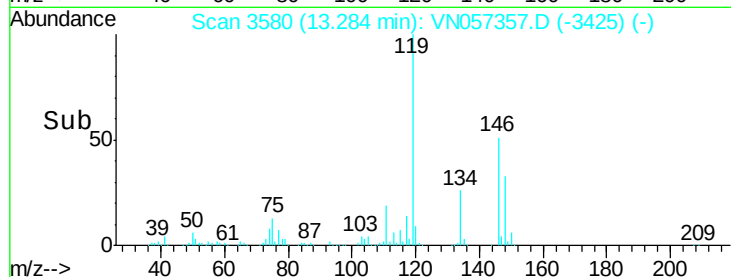
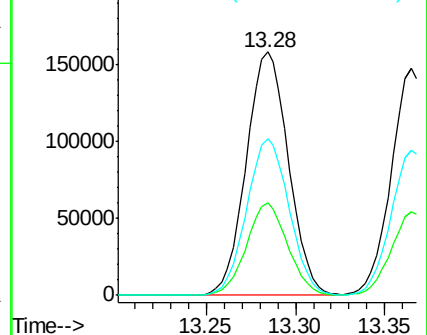
148 64.7 31.8 95.4



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



#84

1,4-Dichlorobenzene

Concen: 17.249 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

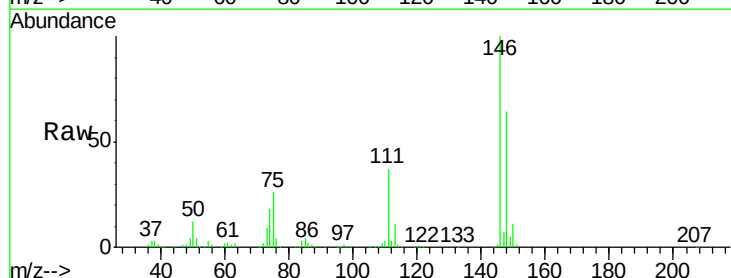
Tgt Ion:146 Resp: 238281

Ion Ratio Lower Upper

146 100

111 36.9 17.8 53.4

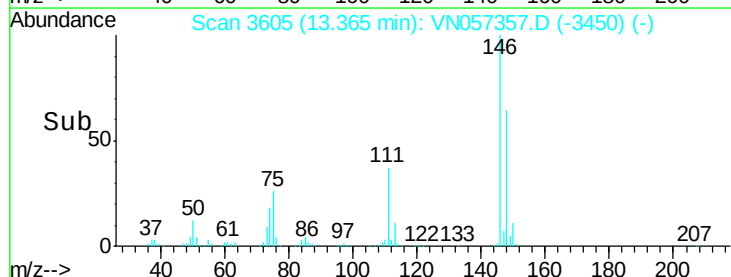
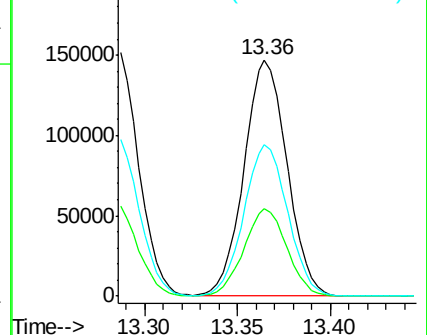
148 65.3 31.9 95.5

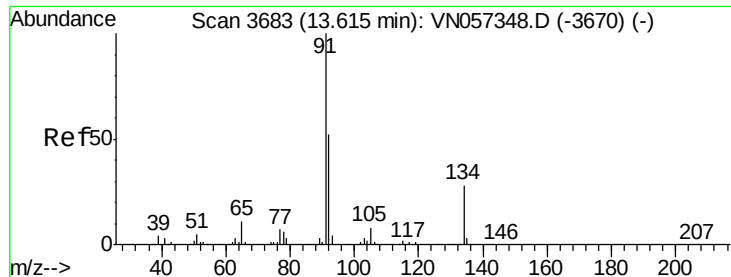


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

n-Butylbenzene

Concen: 18.177 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

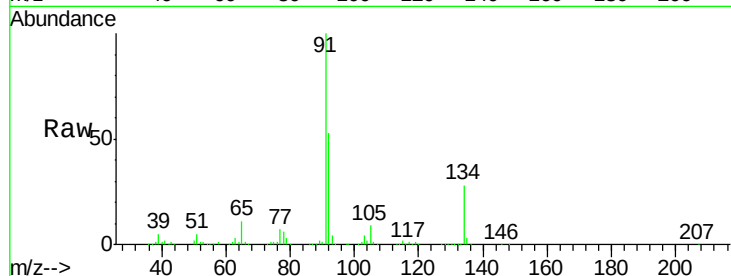
Tot Ion: 91 Resp: 421760

Ion Ratio Lower Upper

91 100

92 52.3 0.0 104.0

134 27.8 0.0 53.2

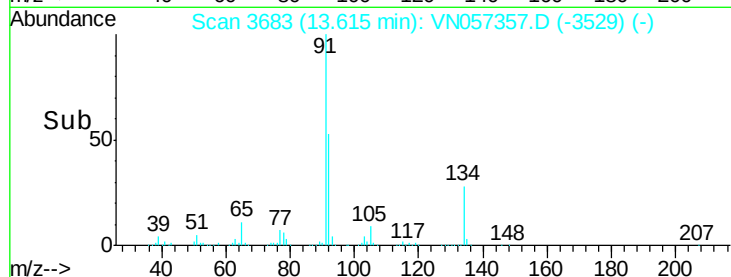


Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3670) (-)

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

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

Time-->



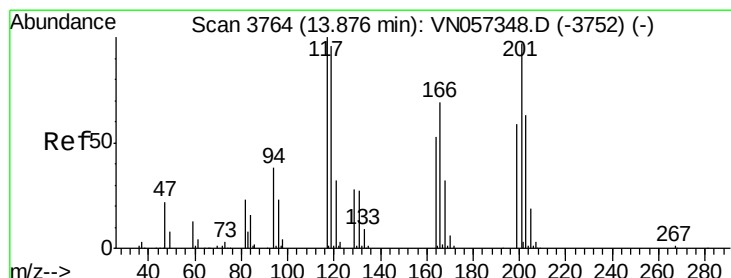
Abundance

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) (-)

Time-->



#86

Hexachloroethane

Concen: 19.105 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN057357.D

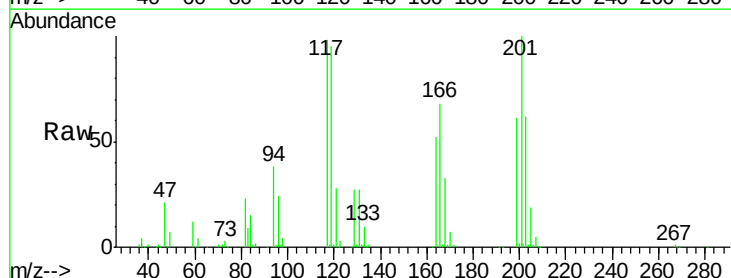
Acq: 16 Aug 2019 15:53

Tgt Ion: 117 Resp: 114743

Ion Ratio Lower Upper

117 100

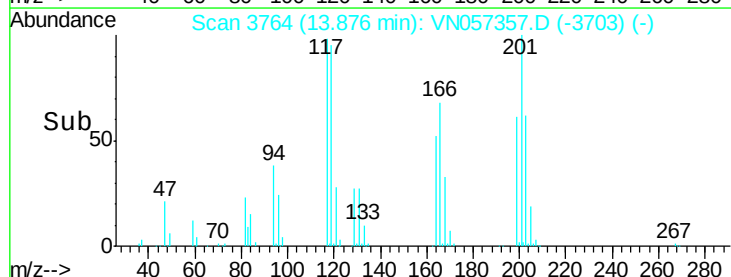
201 100.5 45.6 136.7



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

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

Time-->

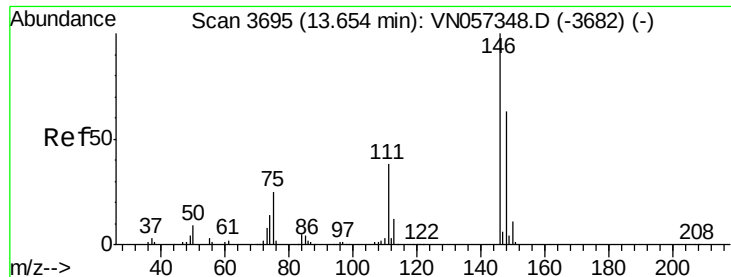


Abundance

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

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

Time-->



#87

1,2-Dichlorobenzene

Concen: 18.746 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

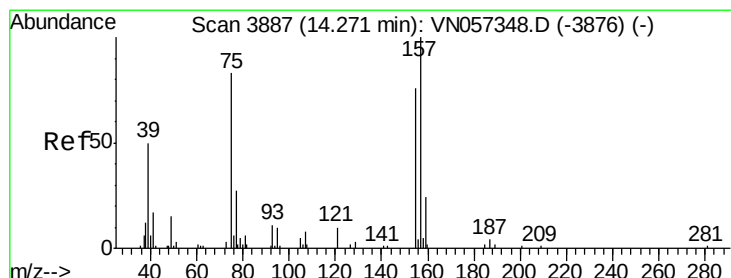
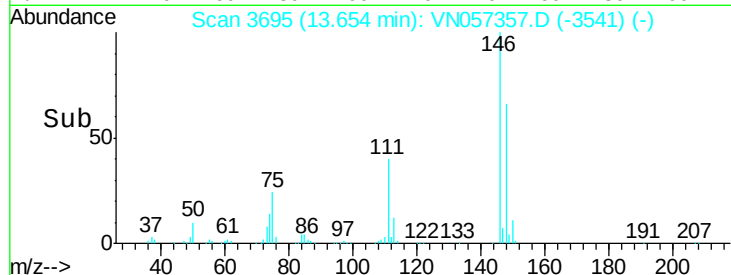
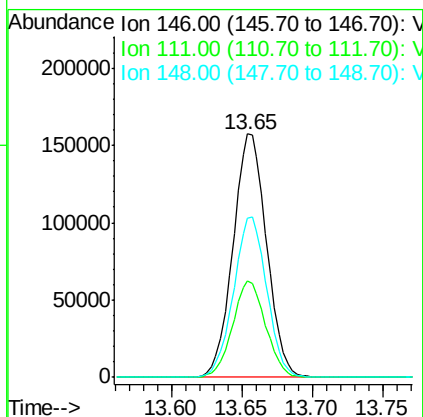
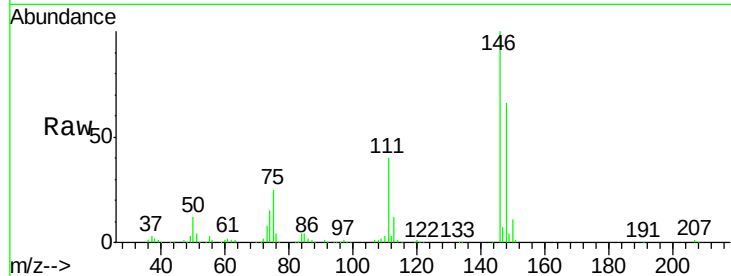
Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:146 Resp: 262087

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.7	59.0
148	65.3	32.7	98.1



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.392 ug/l

RT: 14.27 min Scan# 3888

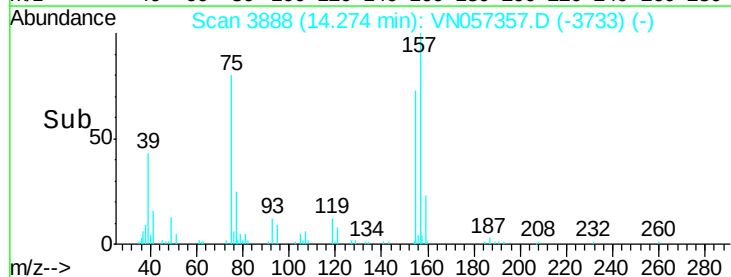
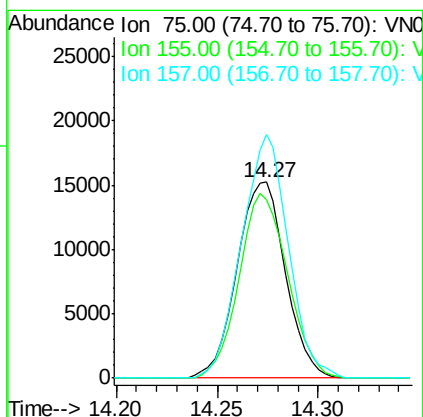
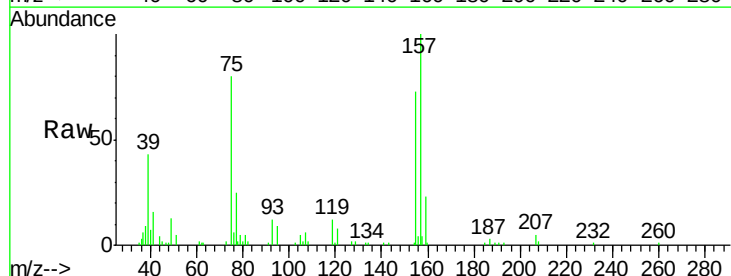
Delta R.T. -0.00 min

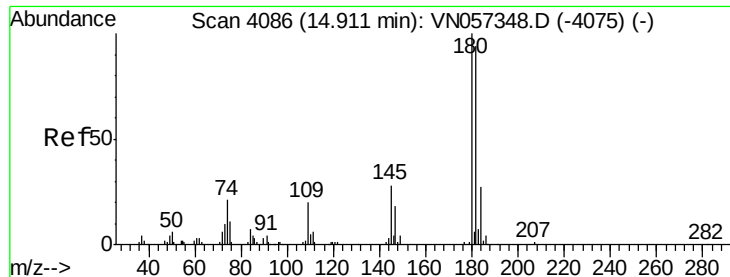
Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Tgt Ion: 75 Resp: 25746

Ion	Ratio	Lower	Upper
75	100		
155	94.2	78.6	117.8
157	119.6	99.3	148.9

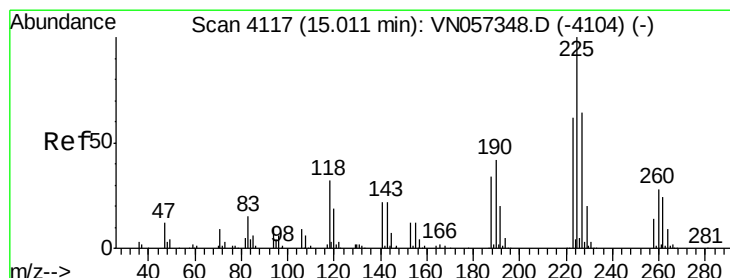
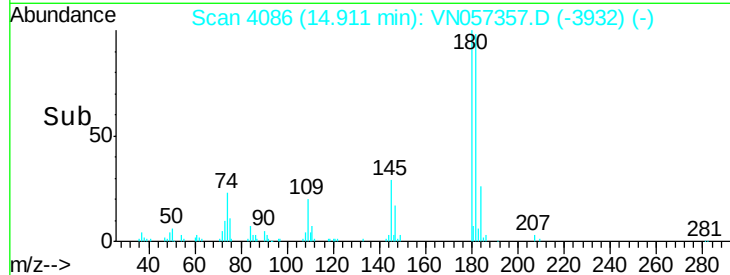
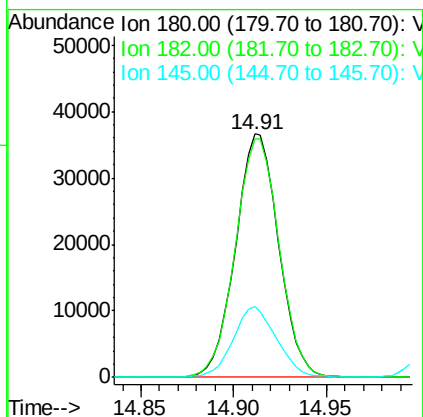
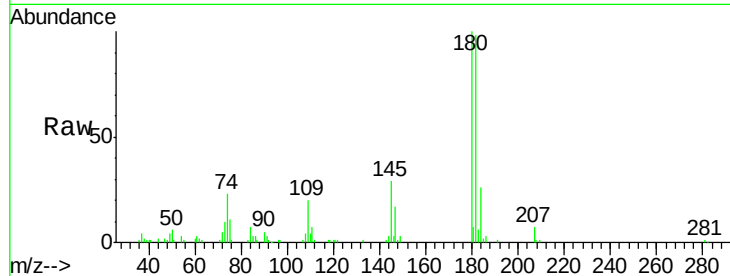




#89
 1,2,4-Trichlorobenzene
 Concen: 11.936 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

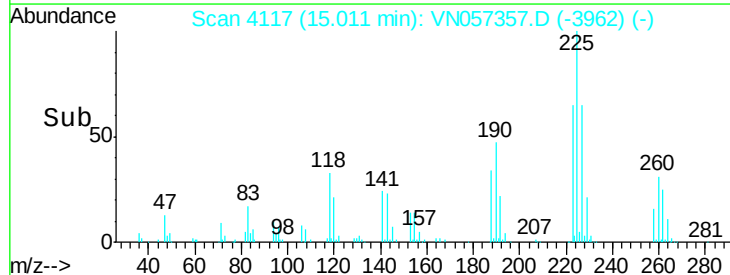
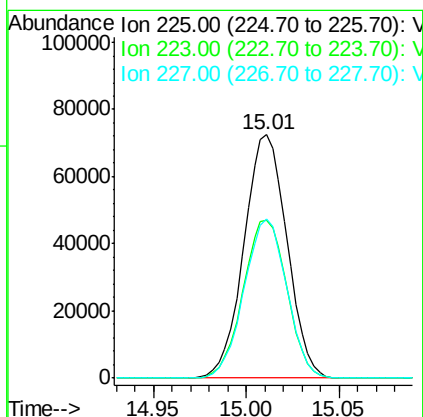
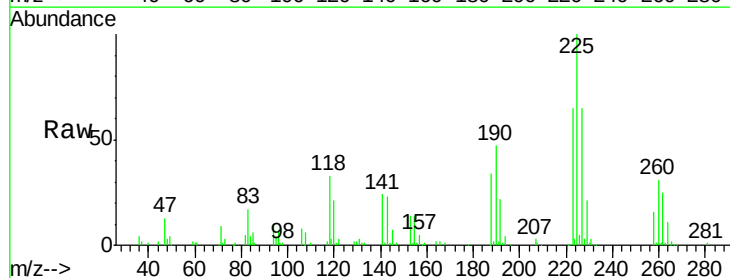
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

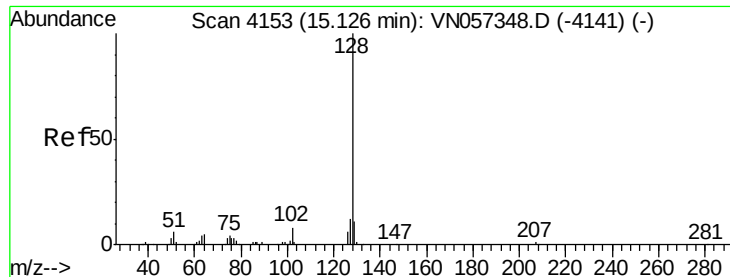
Tot Ion:180 Resp: 59044
 Ion Ratio Lower Upper
 180 100
 182 99.8 78.2 117.4
 145 29.2 23.2 34.8



#90
 Hexachlorobutadiene
 Concen: 18.520 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057357.D
 Acq: 16 Aug 2019 15:53

Tgt Ion:225 Resp: 116914
 Ion Ratio Lower Upper
 225 100
 223 65.8 0.0 124.6
 227 64.9 0.0 128.6





#91

Naphthalene

Concen: 11.181 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

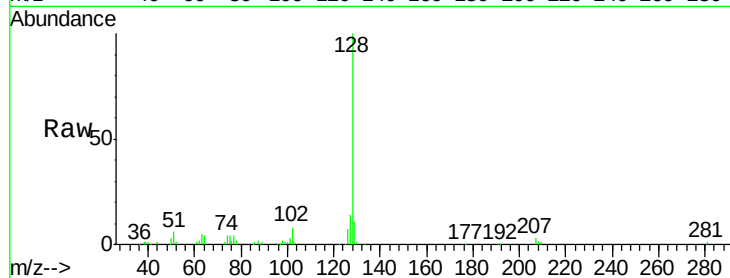
Tot Ion:128 Resp: 119543

Ion Ratio Lower Upper

128 100

127 13.9 10.4 15.6

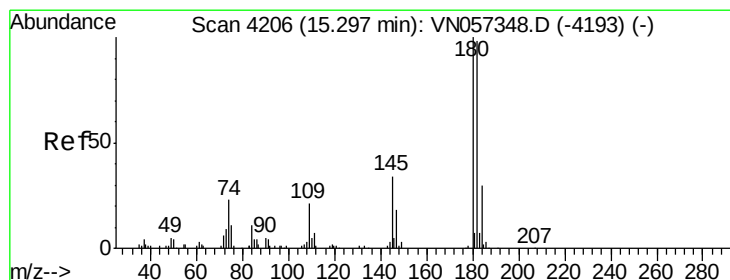
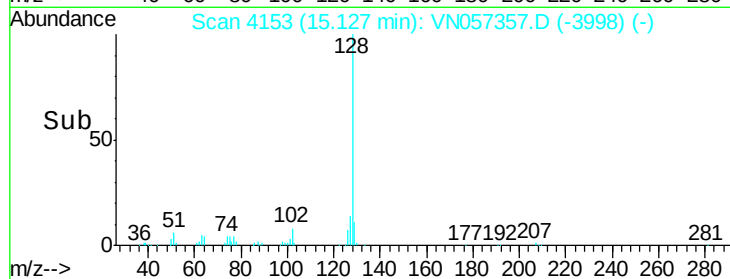
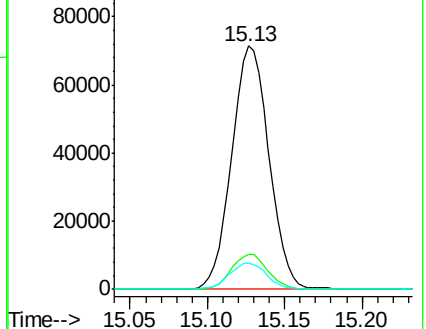
129 10.7 8.8 13.2



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: 13.037 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057357.D

Acq: 16 Aug 2019 15:53

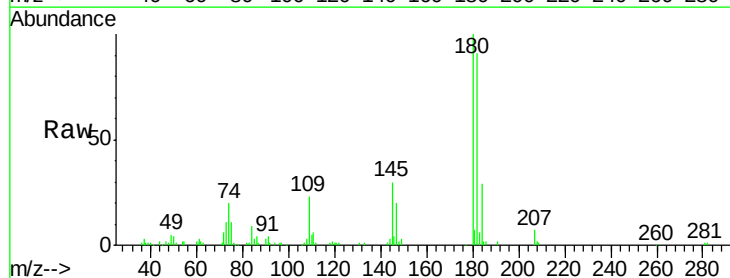
Tgt Ion:180 Resp: 61145

Ion Ratio Lower Upper

180 100

182 95.0 0.0 192.4

145 30.4 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

