

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081919\
 Data File : VN057435.D
 Acq On : 20 Aug 2019 6:28
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 8/21/2019 9:45:51 AM

Quant Time: Aug 20 09:03:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	771758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1141873	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1042584	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	439305	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	401017	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
35) Dibromofluoromethane	7.58	113	366963	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
50) Toluene-d8	10.09	98	1372722	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.40	95	477171	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	290203	43.699	ug/l	99
3) Chloromethane	2.05	50	323785	41.307	ug/l	99
4) Vinyl Chloride	2.18	62	318710	43.218	ug/l	98
5) Bromomethane	2.53	94	240289m	45.711	ug/l	
6) Chloroethane	2.69	64	227943	44.936	ug/l	99
7) Trichlorofluoromethane	3.01	101	542963	46.939	ug/l	99
8) Diethyl Ether	3.40	74	204167	46.895	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	315994	46.496	ug/l	97
10) Methyl Iodide	3.95	142	550746	50.699	ug/l	99
11) Tert butyl alcohol	4.76	59	256915	215.399	ug/l	99
12) 1,1-Dichloroethene	3.73	96	316902	46.800	ug/l	98
13) Acrolein	3.60	56	102984	142.229	ug/l	98
14) Allyl chloride	4.31	41	459588	42.342	ug/l	98
15) Acrylonitrile	4.97	53	728113	224.853	ug/l	100
16) Acetone	3.80	43	554203	190.420	ug/l	99
17) Carbon Disulfide	4.05	76	789815	43.295	ug/l	99
18) Methyl Acetate	4.31	43	356298	45.603	ug/l	95
19) Methyl tert-butyl Ether	5.02	73	1010685	47.568	ug/l	99
20) Methylene Chloride	4.54	84	374919	46.041	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	341476	46.894	ug/l	96
22) Diisopropyl ether	5.93	45	980169	45.713	ug/l	99
23) Vinyl Acetate	5.88	43	3777907	218.926	ug/l	97
24) 1,1-Dichloroethane	5.83	63	621076	47.081	ug/l	99
25) 2-Butanone	6.82	43	875980	207.844	ug/l	96
26) 2,2-Dichloropropane	6.81	77	339584	31.853	ug/l	97
27) cis-1,2-Dichloroethene	6.82	96	411051	47.681	ug/l	95
28) Bromochloromethane	7.18	49	277272	47.306	ug/l #	92
29) Tetrahydrofuran	7.19	42	564772	211.746	ug/l	98
30) Chloroform	7.36	83	648561	46.915	ug/l	97
31) Cyclohexane	7.64	56	494527	43.259	ug/l	99
32) 1,1,1-Trichloroethane	7.56	97	577083	49.631	ug/l	98
36) 1,1-Dichloropropene	7.78	75	466199	46.241	ug/l	99
37) Ethyl Acetate	6.91	43	362599	43.911	ug/l	98
38) Carbon Tetrachloride	7.76	117	519213	49.565	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	526146	44.693	ug/l	98
40) Benzene	8.03	78	1450388	47.034	ug/l	99
41) Methacrylonitrile	7.17	41	195117m	52.470	ug/l	
42) 1,2-Dichloroethane	8.11	62	476538	46.691	ug/l	100
43) Isopropyl Acetate	8.15	43	759008	50.267	ug/l	98
44) Trichloroethene	8.83	130	417771	48.188	ug/l	100
45) 1,2-Dichloropropane	9.11	63	370050	46.556	ug/l	99
46) Dibromomethane	9.20	93	252917	47.696	ug/l	97
47) Bromodichloromethane	9.40	83	517053	49.213	ug/l	99
48) Methyl methacrylate	9.19	41	299312	44.017	ug/l	96
49) 1,4-Dioxane	9.19	88	133863	936.107	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	1856070	217.876	ug/l	98
52) Toluene	10.15	92	935728	48.752	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	518102	45.590	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	573119	45.734	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	366978	48.623	ug/l	98
56) Ethyl methacrylate	10.42	69	532884	48.381	ug/l	98
57) 1,3-Dichloropropane	10.70	76	597098	47.357	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	621937	194.475	ug/l	98
59) 2-Hexanone	10.75	43	1322561	215.947	ug/l	98
60) Dibromochloromethane	10.90	129	437196	51.691	ug/l	99
61) 1,2-Dibromoethane	11.00	107	387121	48.150	ug/l	98
64) Tetrachloroethene	10.63	164	440403	48.864	ug/l	98
65) Chlorobenzene	11.43	112	1045396	49.163	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	413280	50.749	ug/l	99
67) Ethyl Benzene	11.51	91	1787650	48.052	ug/l	100
68) m/p-Xylenes	11.62	106	1371530	100.063	ug/l	98
69) o-Xylene	11.95	106	674073	50.087	ug/l	99
70) Styrene	11.96	104	1111066	51.791	ug/l	99
71) Bromoform	12.13	173	338711	52.721	ug/l #	99
73) Isopropylbenzene	12.25	105	1794864	51.478	ug/l	98
74) N-amyl acetate	12.07	43	506177	39.707	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	484503	49.579	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	400381m	46.140	ug/l	
77) Bromobenzene	12.53	156	494938	52.678	ug/l	94
78) n-propylbenzene	12.59	91	1875262	44.328	ug/l	99
79) 2-Chlorotoluene	12.67	91	1173750	50.787	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1503989	50.850	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	137347	38.123	ug/l	98
82) 4-Chlorotoluene	12.77	91	1123298	44.809	ug/l	98
83) tert-Butylbenzene	12.99	119	1360261	52.498	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1437391	45.427	ug/l	98
85) sec-Butylbenzene	13.17	105	1650914	49.665	ug/l	99
86) p-Isopropyltoluene	13.29	119	1474949	45.530	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	734058	47.691	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	682206	46.691	ug/l	100
89) n-Butylbenzene	13.62	91	1094987	47.413	ug/l	99
90) Hexachloroethane	13.88	117	288205	52.421	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	689661	48.066	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	63271	40.389	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	223782	40.178	ug/l	99
94) Hexachlorobutadiene	15.01	225	290716	53.129	ug/l	96
95) Naphthalene	15.13	128	443369	50.400	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	202628	50.767	ug/l	99

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

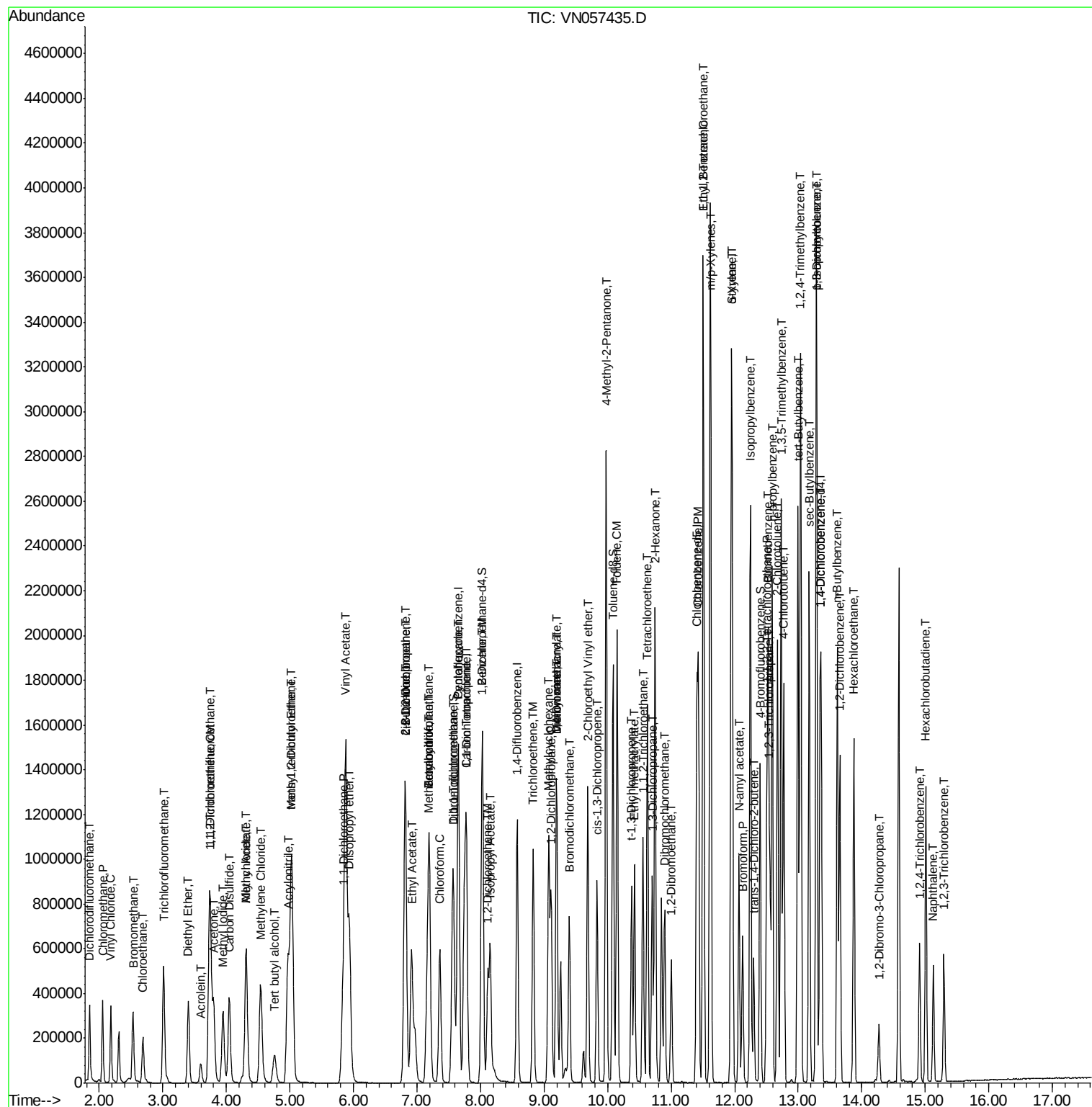
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081919\
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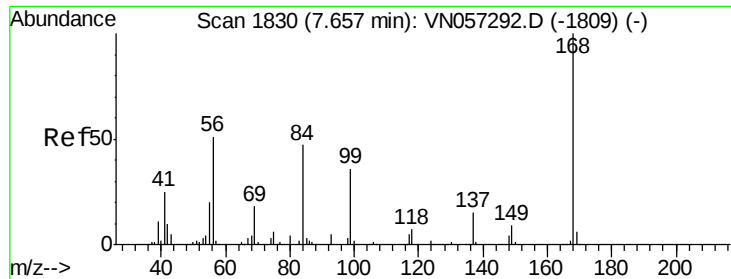
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 771758

Ion Ratio Lower Upper

168 100

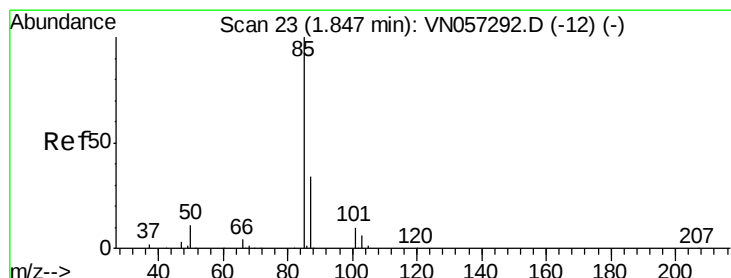
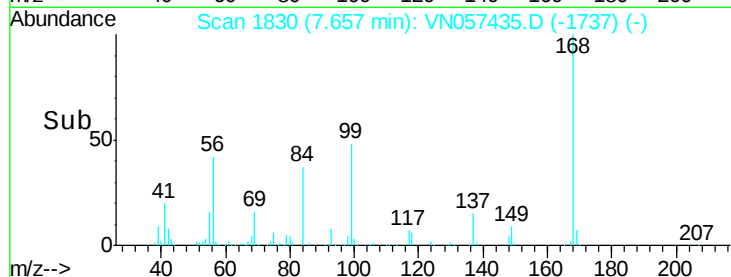
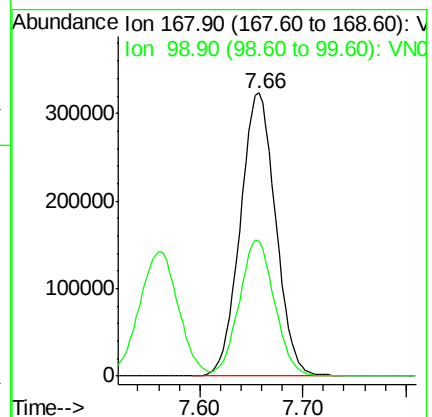
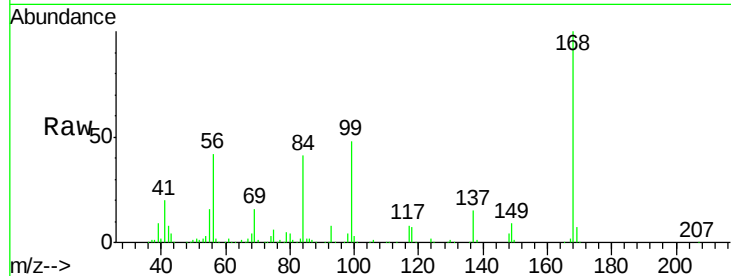
99 47.5 39.4 59.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 43.699 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057435.D

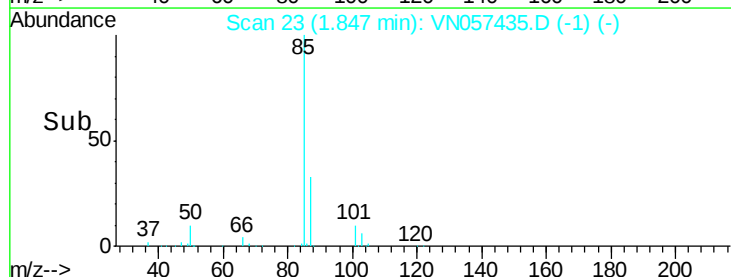
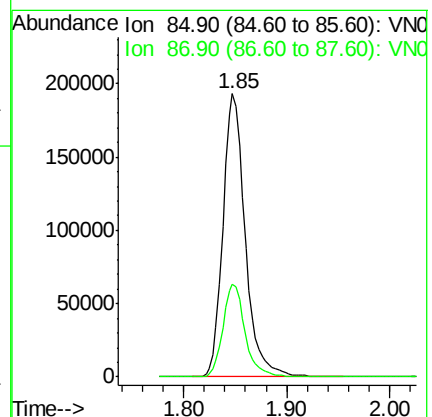
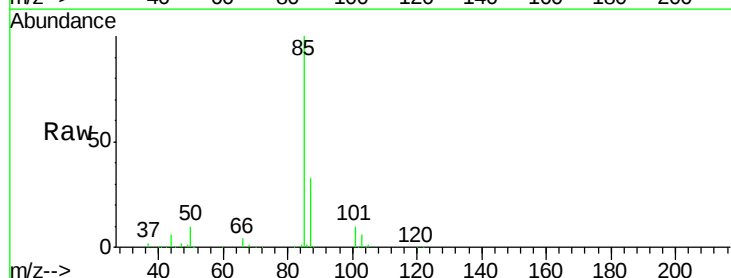
Acq: 20 Aug 2019 6:28

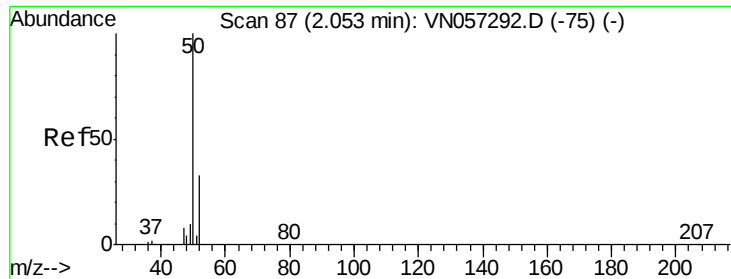
Tgt Ion: 85 Resp: 290203

Ion Ratio Lower Upper

85 100

87 33.0 16.9 50.7





#3

Chloromethane

Concen: 41.307 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 323785

Ion Ratio Lower Upper

50 100

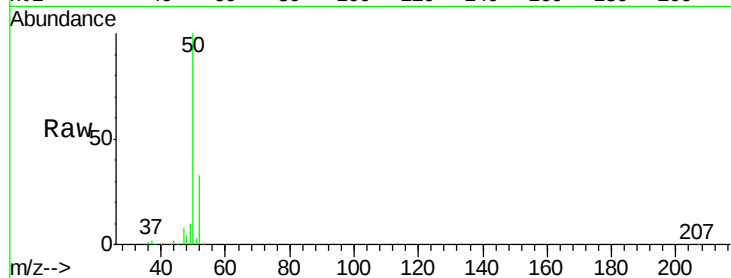
52 33.2 26.8 40.2

Manual Integrations

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8/21/2019 9:45:51 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.05

200000

150000

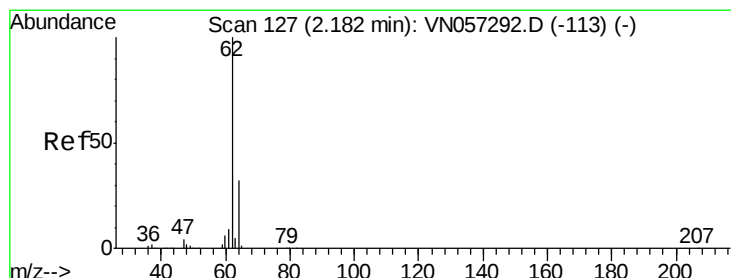
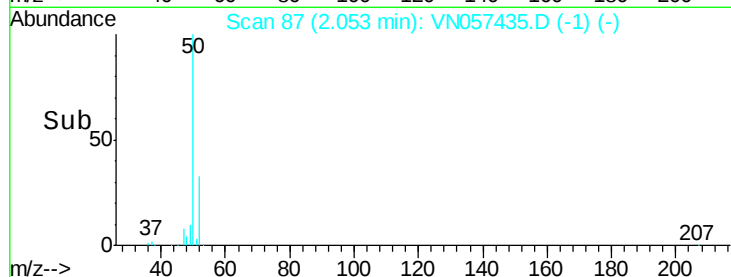
100000

50000

0

Time-->

2.00 2.05 2.10



#4

Vinyl Chloride

Concen: 43.218 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057435.D

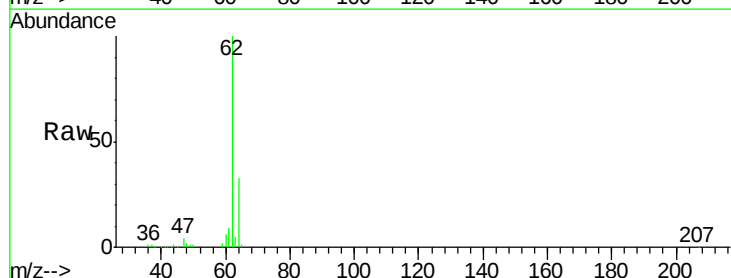
Acq: 20 Aug 2019 6:28

Tgt Ion: 62 Resp: 318710

Ion Ratio Lower Upper

62 100

64 33.5 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

200000

150000

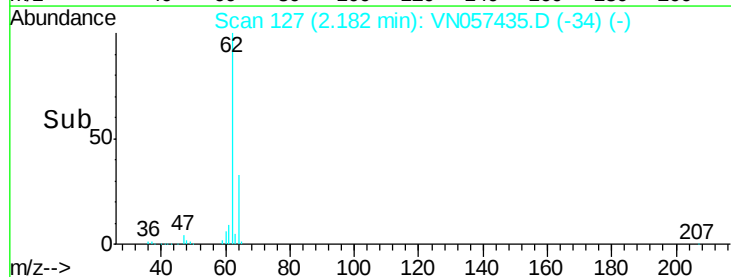
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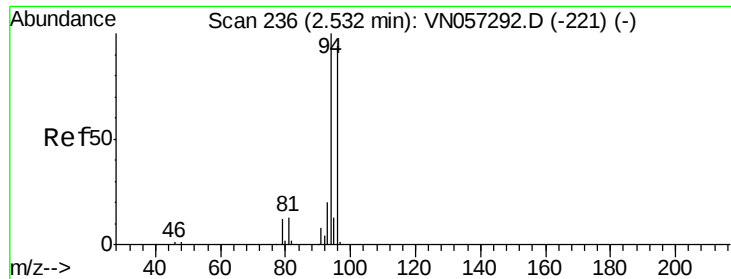
50000

0

Time-->

2.10 2.20 2.30





#5

Bromomethane

Concen: 45.711 ug/l m

RT: 2.53 min Scan# 235

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 240289

Ion Ratio Lower Upper

94 100

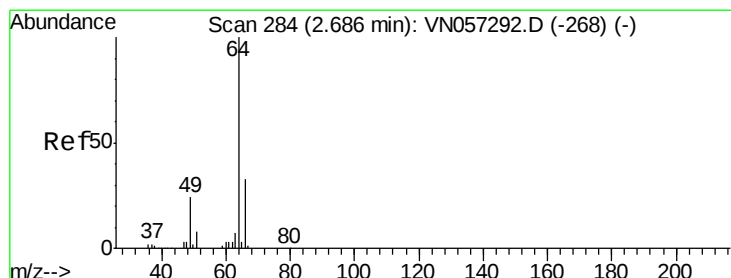
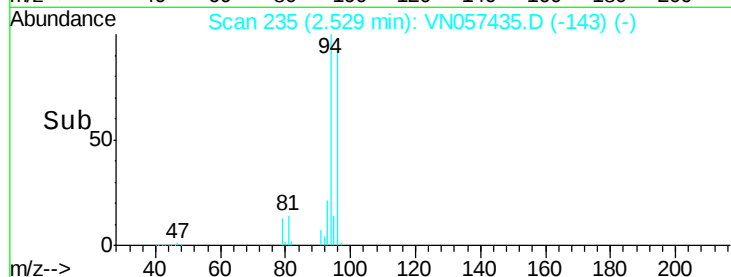
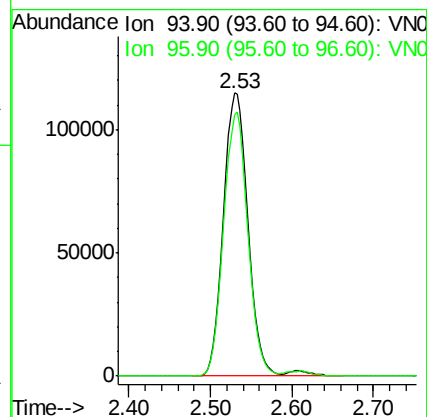
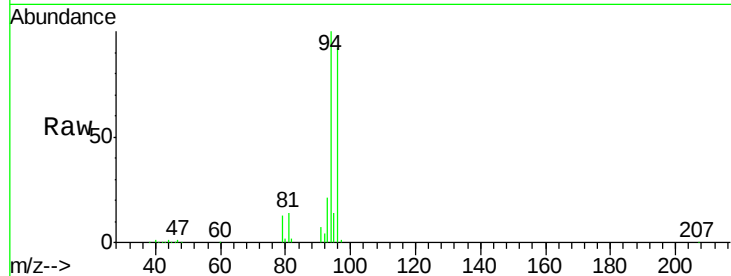
96 92.4 75.0 112.6

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#6

Chloroethane

Concen: 44.936 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN057435.D

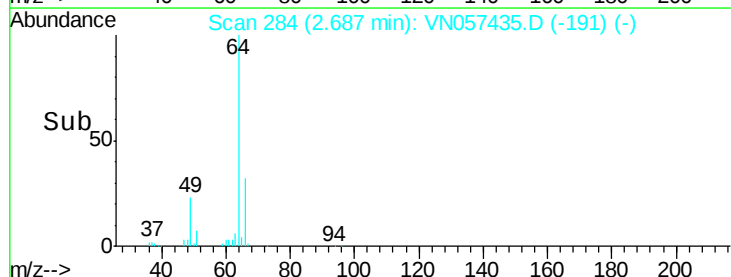
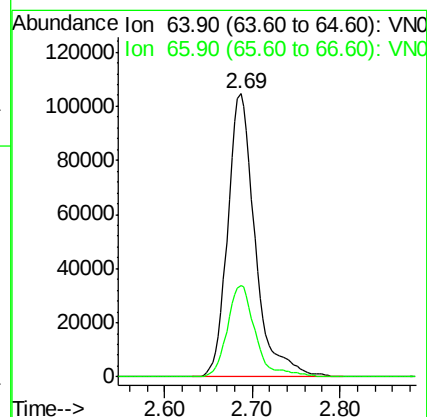
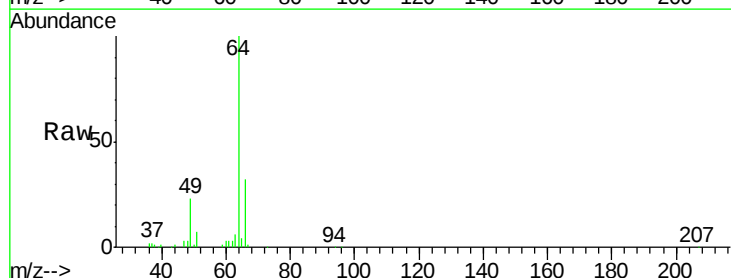
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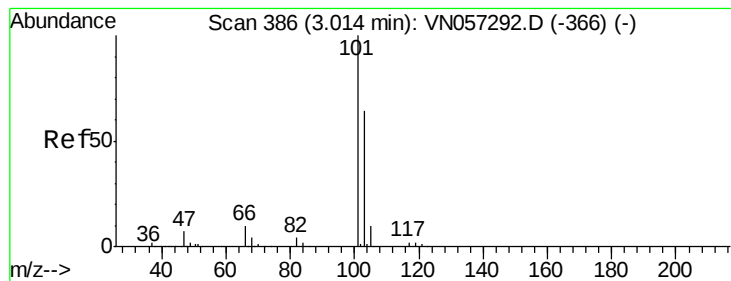
Tgt Ion: 64 Resp: 227943

Ion Ratio Lower Upper

64 100

66 32.3 26.4 39.6





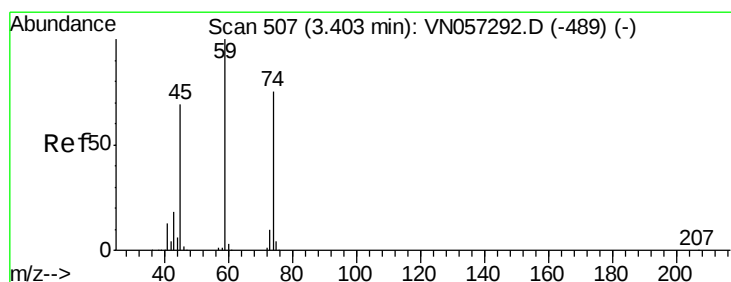
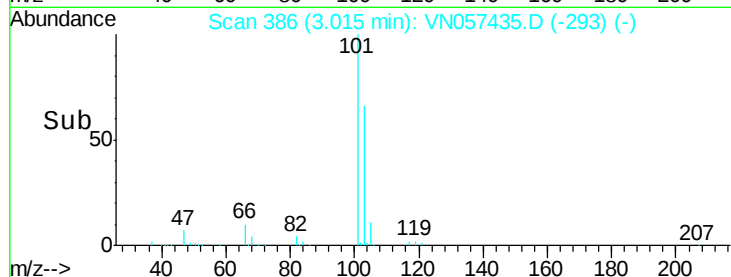
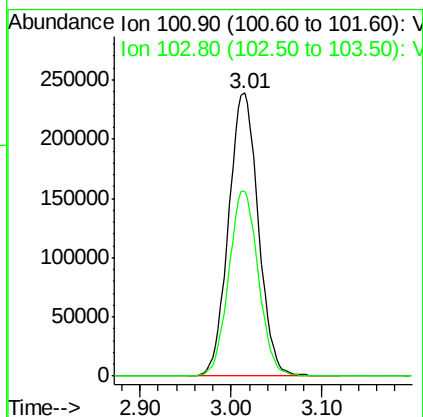
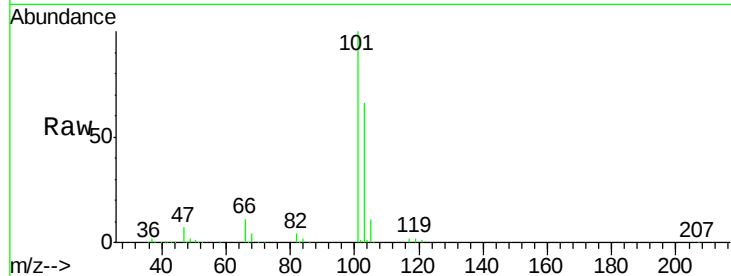
#7
 Trichlorofluoromethane
 Concen: 46.939 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	542963		
103	65.5	51.5	77.3	

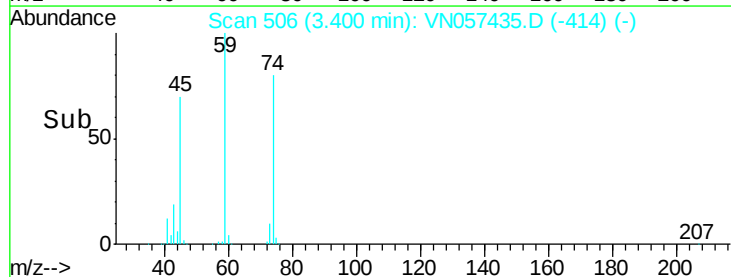
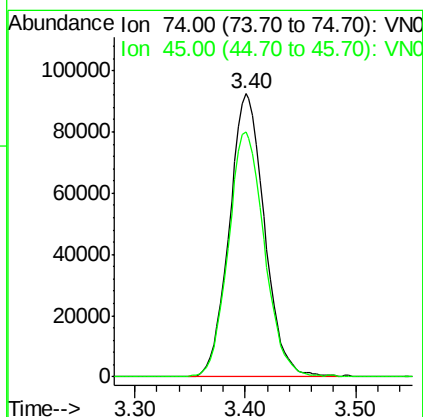
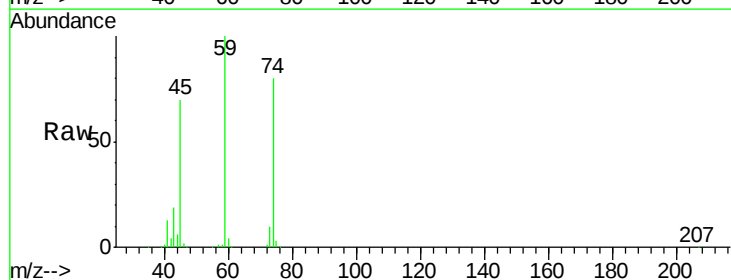
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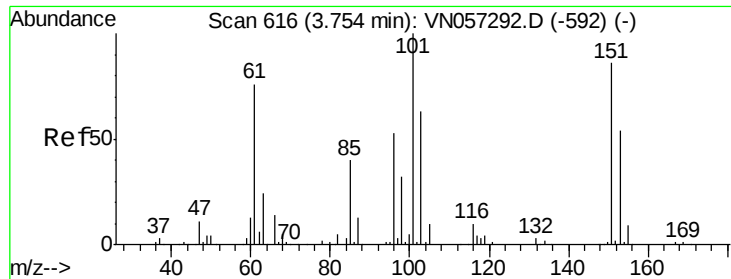
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 8/21/2019 9:45:51 AM



#8
 Diethyl Ether
 Concen: 46.895 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. -0.00 min
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Tgt Ion	Ratio	Resp	Lower	Upper
74	100	204167		
45	88.5	45.9	137.6	





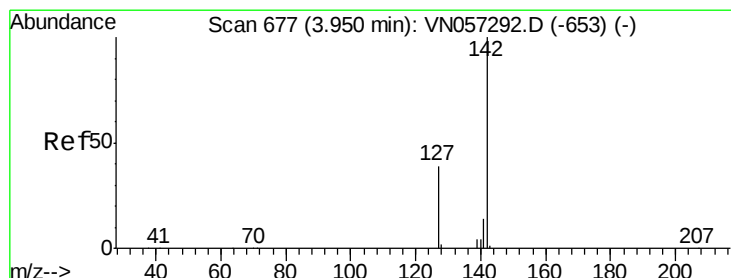
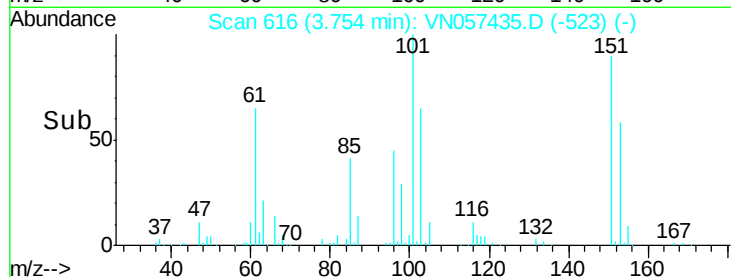
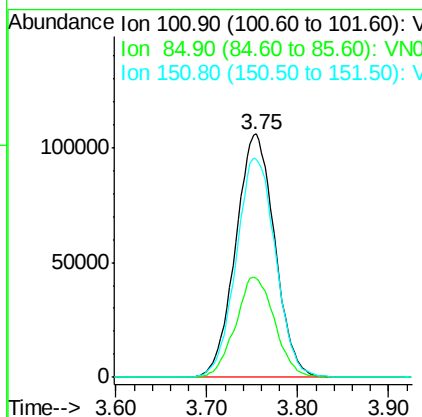
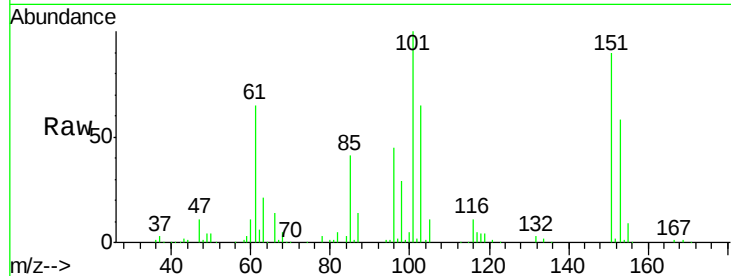
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 46.496 ug/l
 RT: 3.75 min Scan# 616
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
101	100	315994		
85	41.1	32.7	49.1	
151	90.8	69.1	103.7	

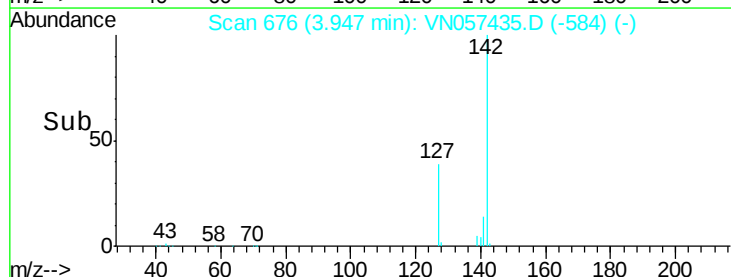
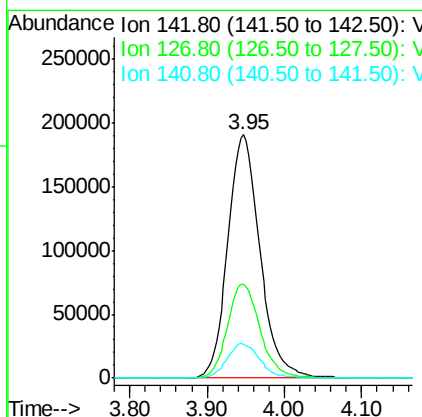
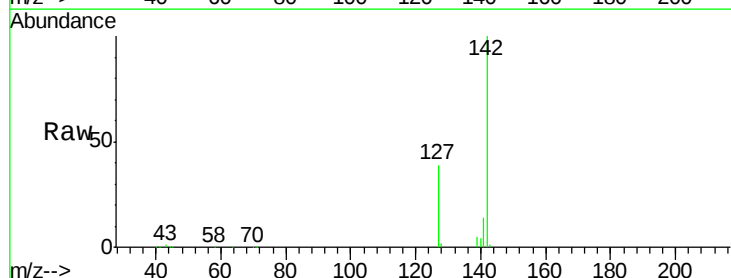
Manual Integrations
 APPROVED

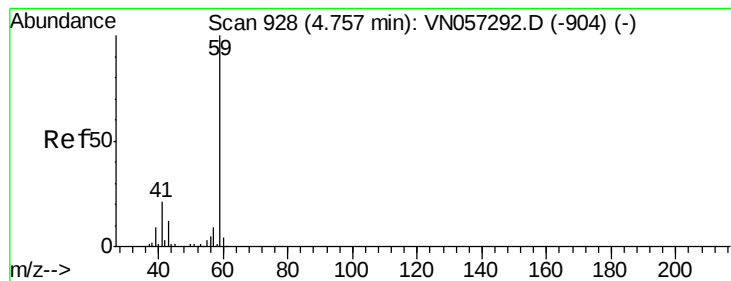
MMDadoda
 8/21/2019 9:45:51 AM



#10
 Methyl Iodide
 Concen: 50.699 ug/l
 RT: 3.95 min Scan# 676
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	550746		
127	39.3	31.6	47.4	
141	14.5	11.2	16.8	





#11

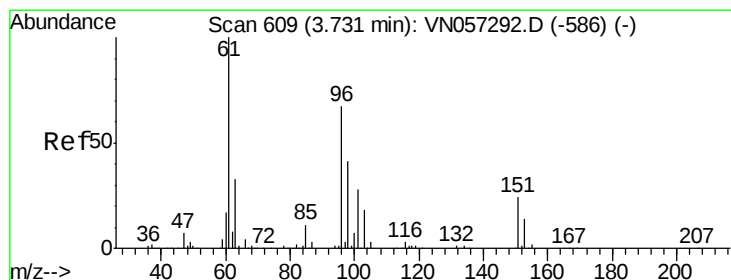
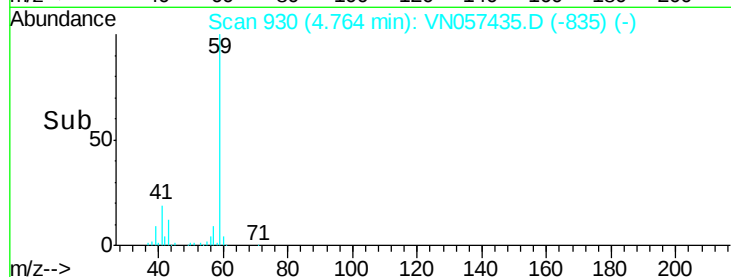
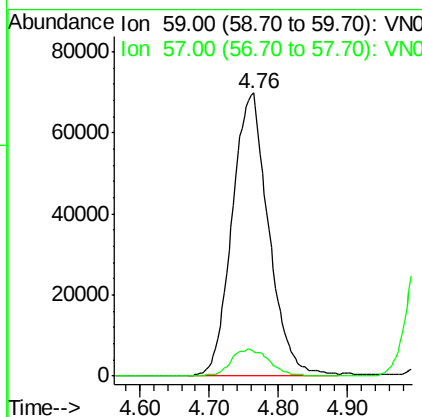
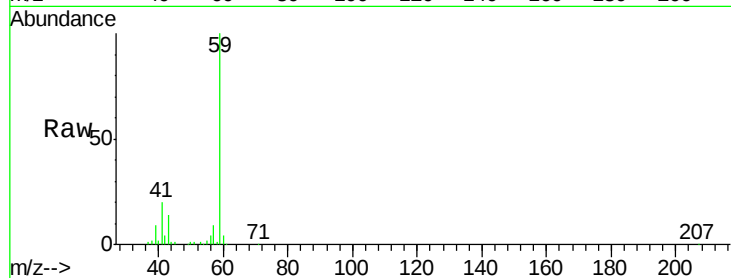
Tert butyl alcohol
Concen: 215.399 ug/l
RT: 4.76 min Scan# 930
Delta R.T. 0.01 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	256915		
57	9.9		8.2	12.2

Manual Integrations
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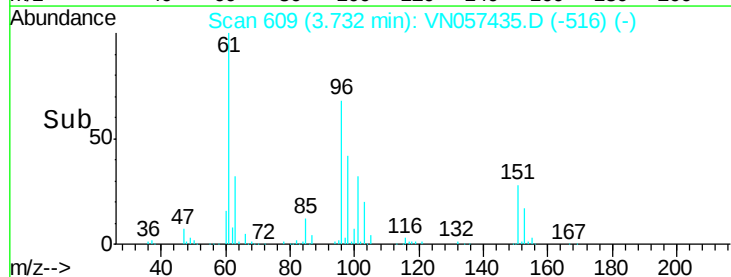
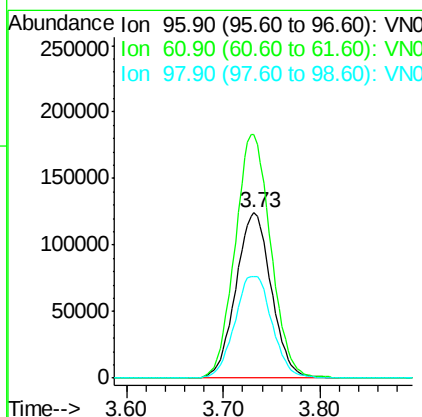
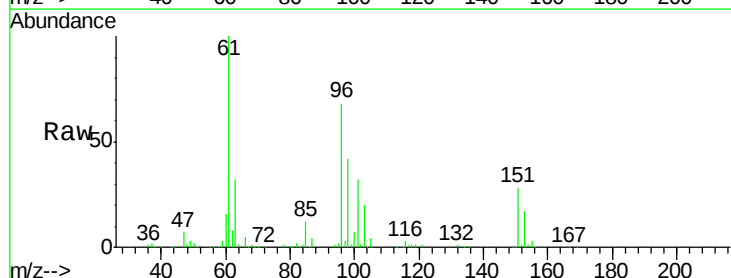
MMDadoda
8/21/2019 9:45:51 AM

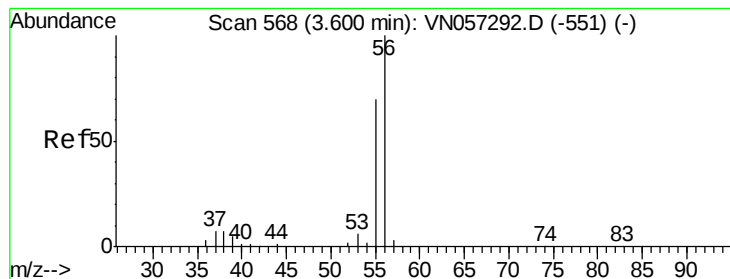


#12

1,1-Dichloroethene
Concen: 46.800 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	316902		
61	147.2		119.7	179.5
98	61.7		49.0	73.4





#13

Acrolein

Concen: 142.229 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 102984

Ion Ratio Lower Upper

56 100

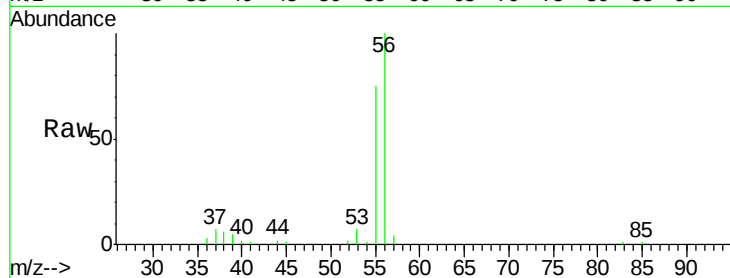
55 72.6 56.6 84.8

Manual Integrations

APPROVED

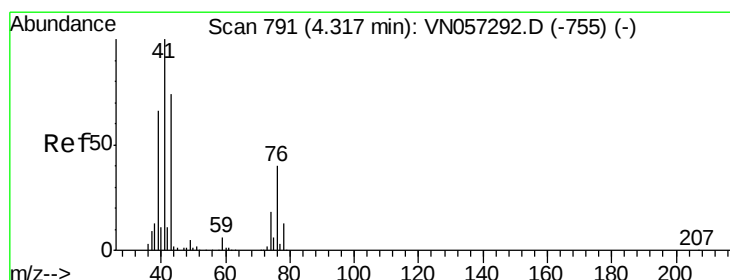
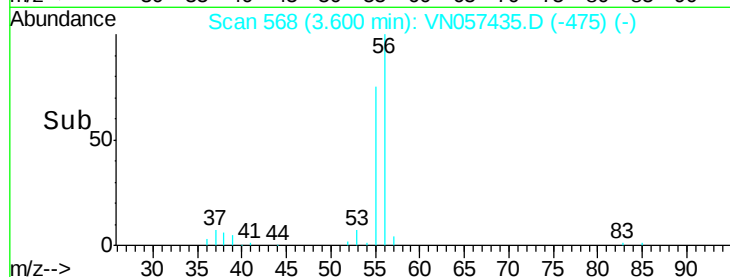
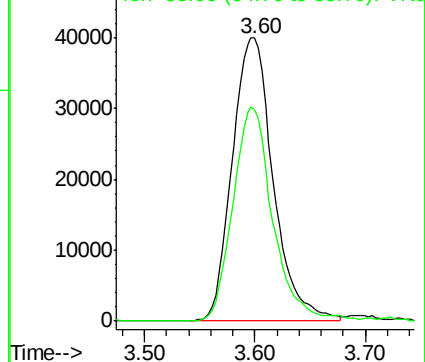
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 42.342 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

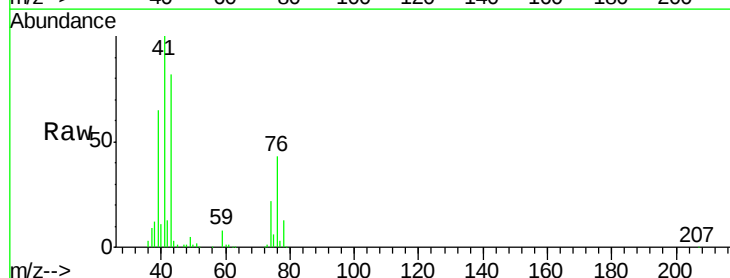
Tgt Ion: 41 Resp: 459588

Ion Ratio Lower Upper

41 100

39 61.3 49.0 73.6

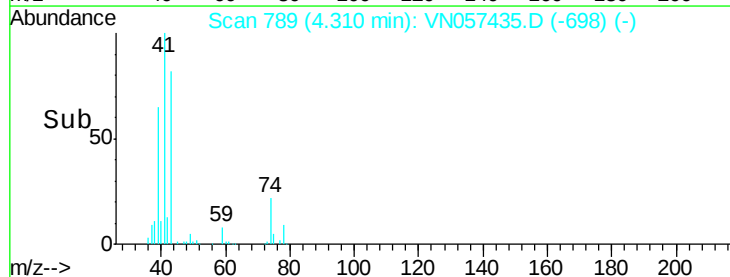
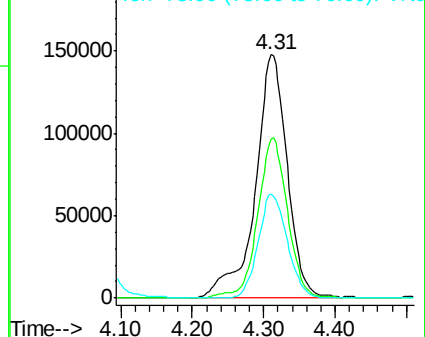
76 38.6 29.0 43.4

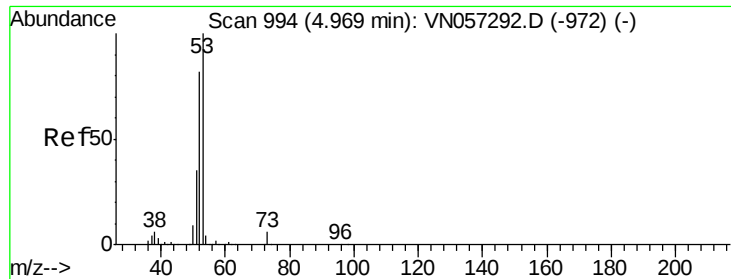


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 224.853 ug/l

RT: 4.97 min Scan# 993

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

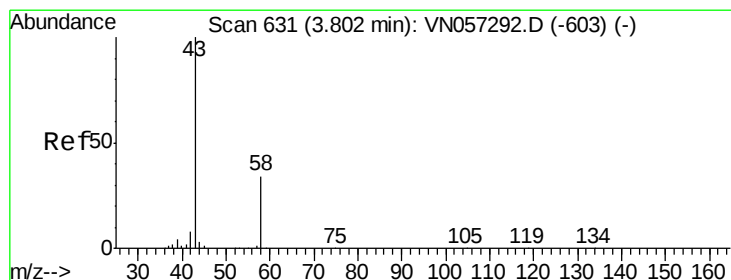
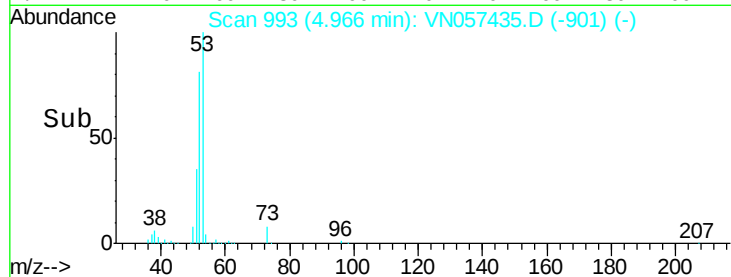
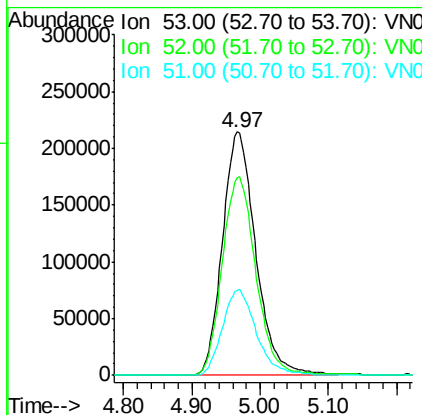
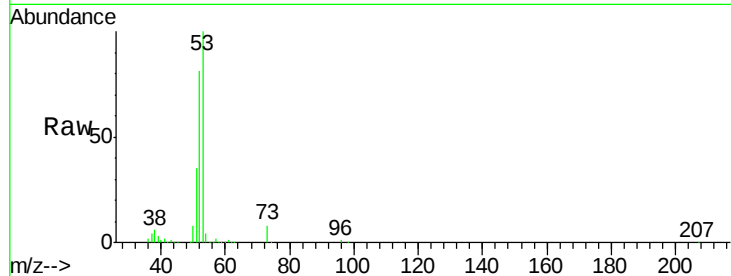
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	728113
Ion Ratio	Lower	Upper	
53	100		
52	82.4	66.2	99.2
51	35.9	28.5	42.7

Manual Integrations
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#16

Acetone

Concen: 190.420 ug/l

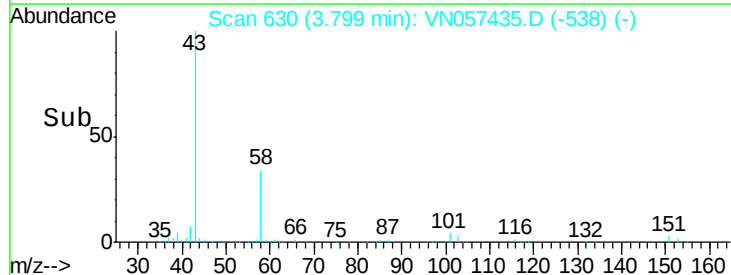
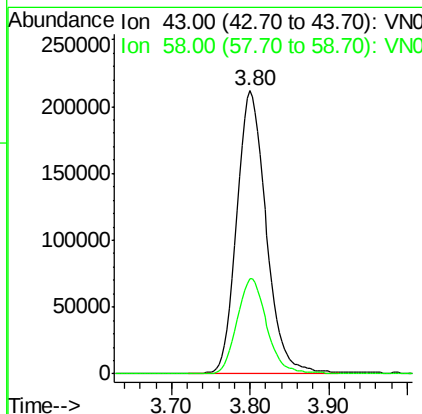
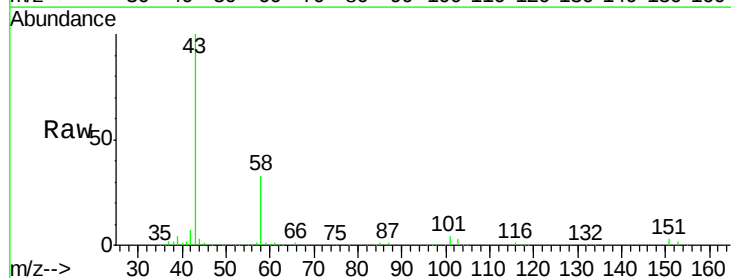
RT: 3.80 min Scan# 630

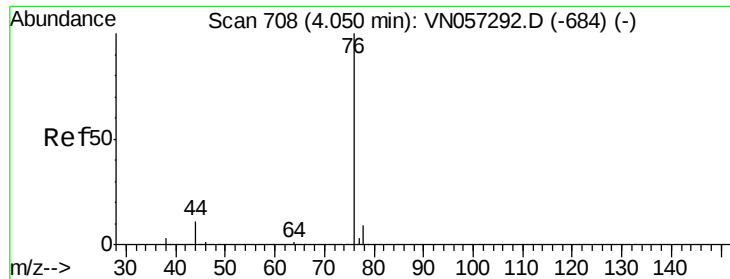
Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Tgt Ion:	43	Resp:	554203
Ion Ratio	Lower	Upper	
43	100		
58	33.4	27.0	40.6





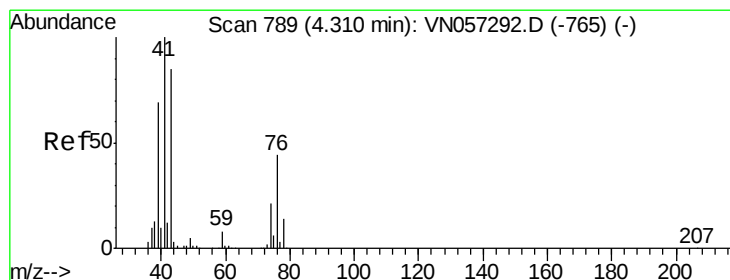
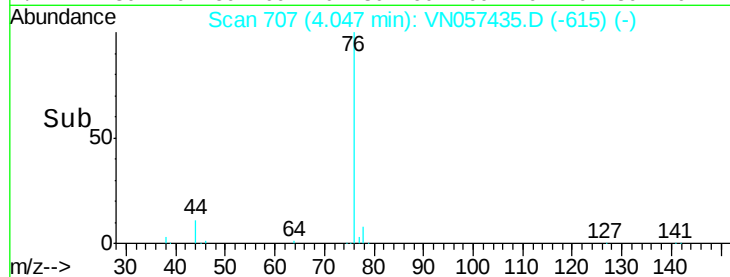
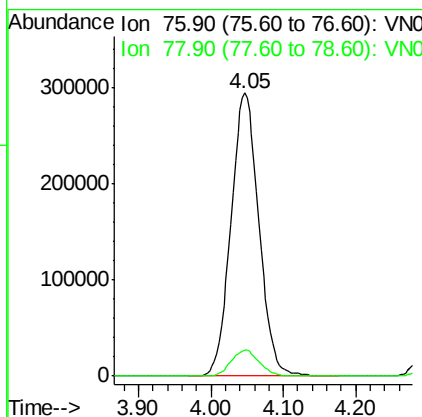
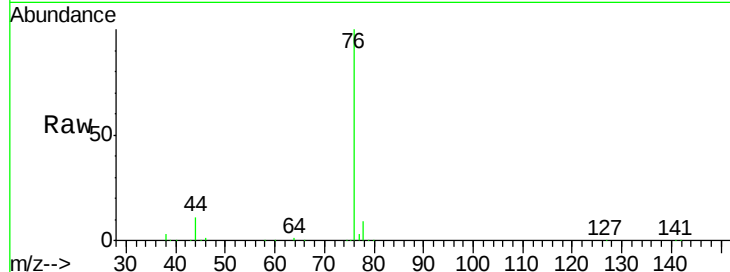
#17
Carbon Disulfide
Concen: 43.295 ug/l
RT: 4.05 min Scan# 707
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.6

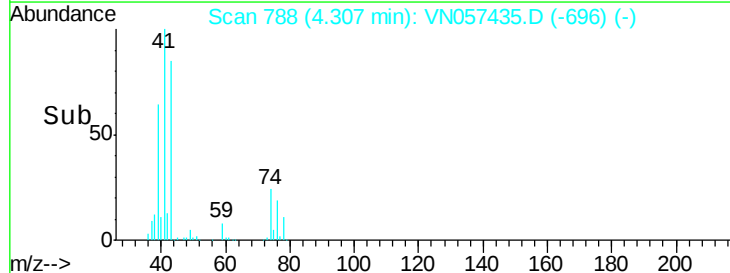
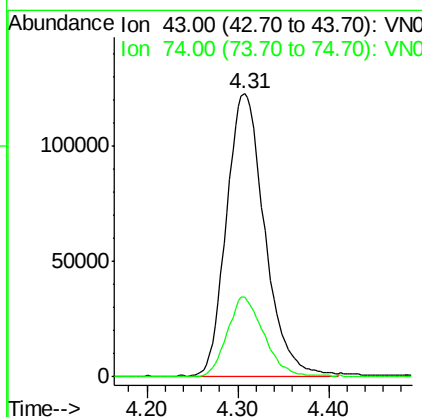
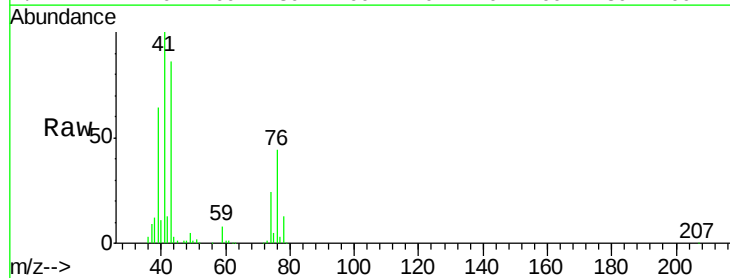
Manual Integrations
APPROVED

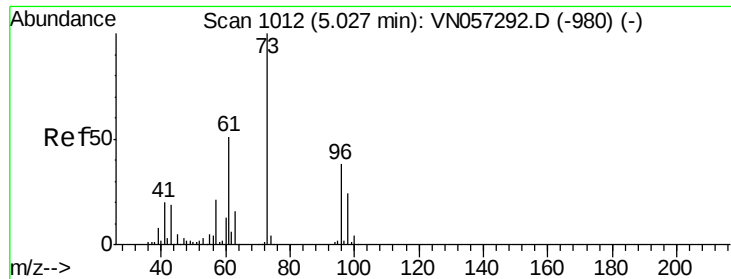
MMDadoda
8/21/2019 9:45:51 AM



#18
Methyl Acetate
Concen: 45.603 ug/l
RT: 4.31 min Scan# 788
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.5	20.2	30.2





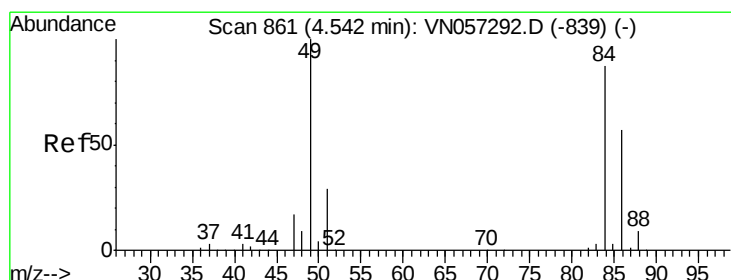
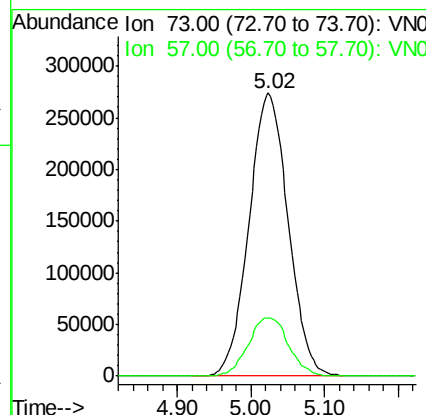
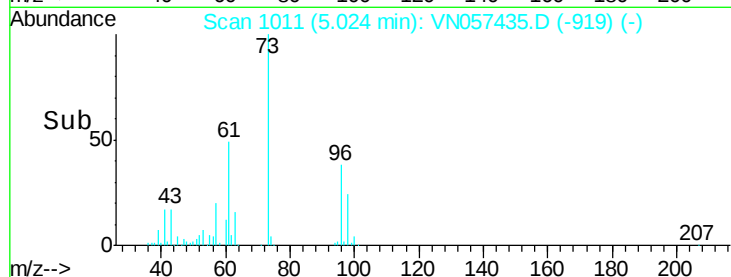
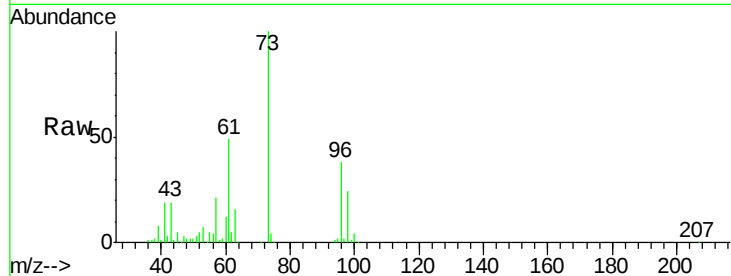
#19
Methvl tert-butvl Ether
Concen: 47.568 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1010685
Ion Ratio Lower Upper
73 100
57 20.5 16.9 25.3

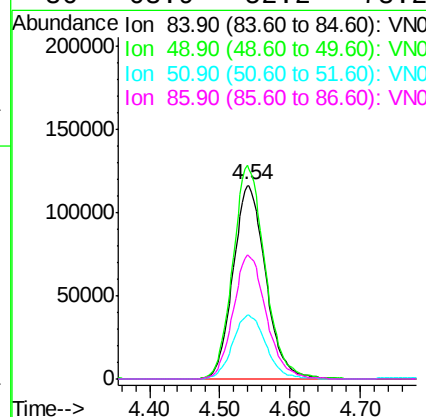
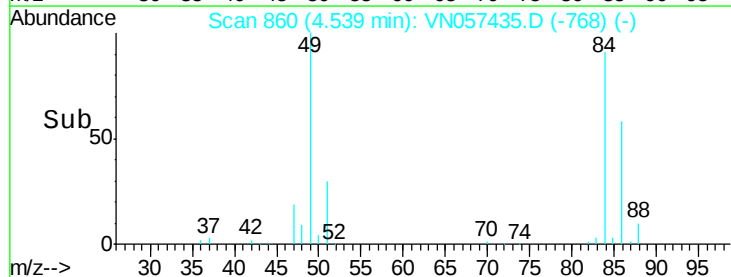
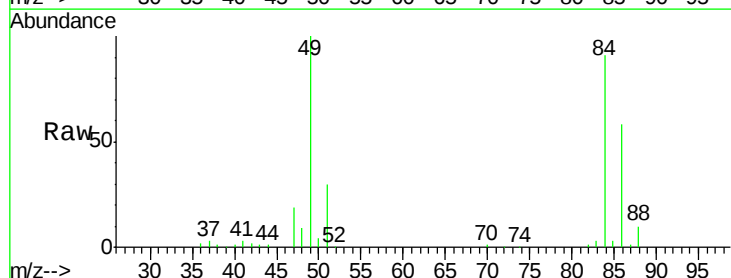
Manual Integrations
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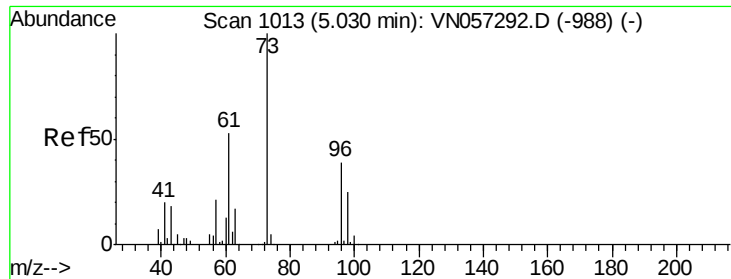
MMDadoda
8/21/2019 9:45:51 AM



#20
Methylene Chloride
Concen: 46.041 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion: 84 Resp: 374919
Ion Ratio Lower Upper
84 100
49 110.3 92.0 138.0
51 33.3 27.1 40.7
86 63.9 52.2 78.2





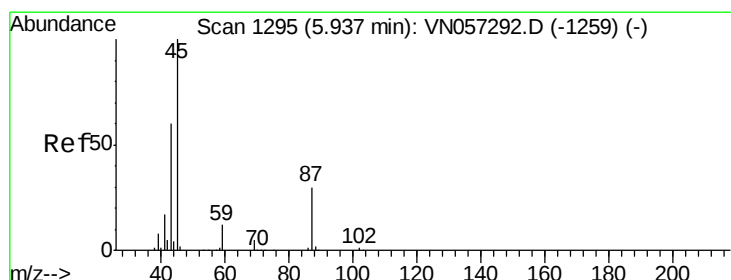
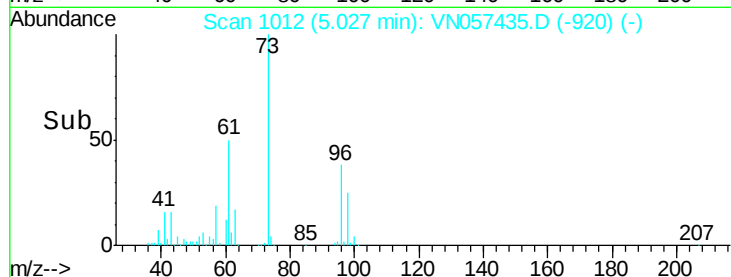
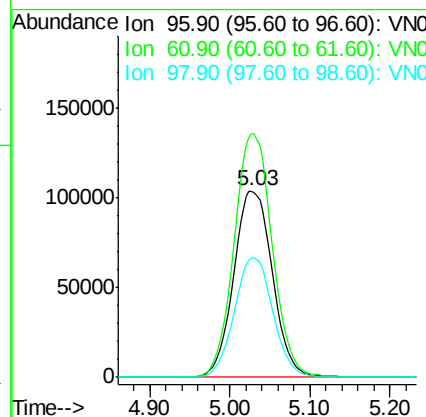
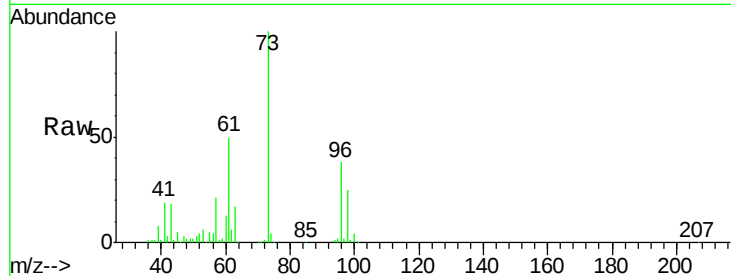
#21
trans-1,2-Dichloroethene
Concen: 46.894 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.3	109.5	164.3
98	64.0	51.0	76.6

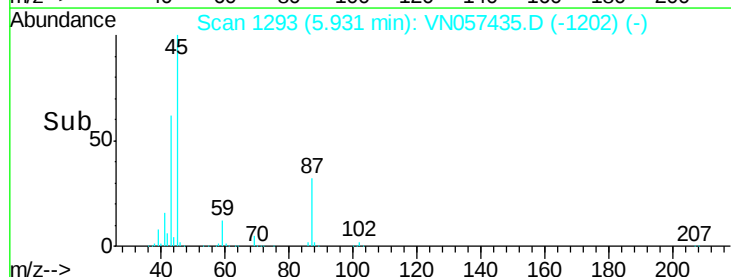
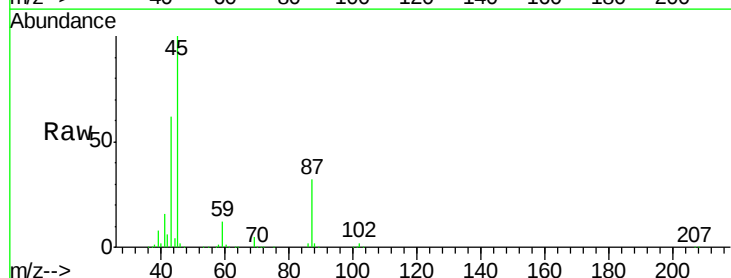
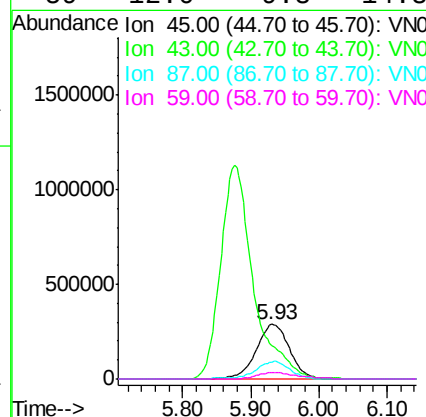
Manual Integrations
APPROVED

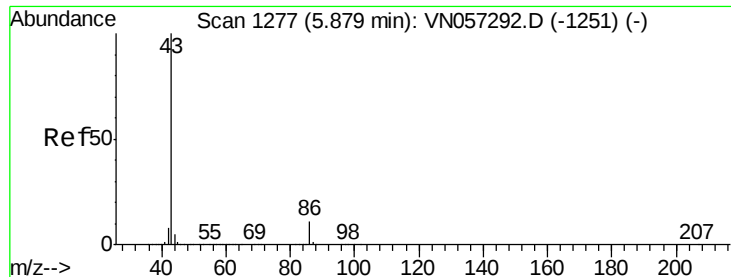
MMDadoda
8/21/2019 9:45:51 AM



#22
Diisopropyl ether
Concen: 45.713 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.01 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.2	48.3	72.5
87	31.7	24.6	36.8
59	12.0	9.8	14.8





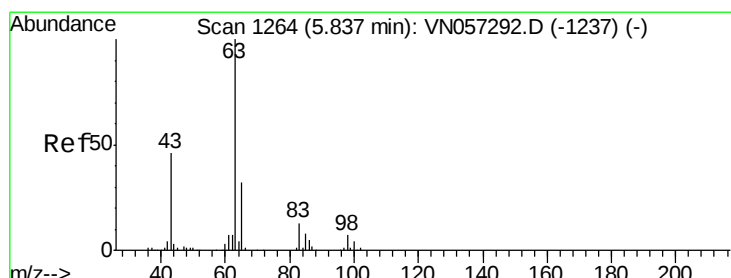
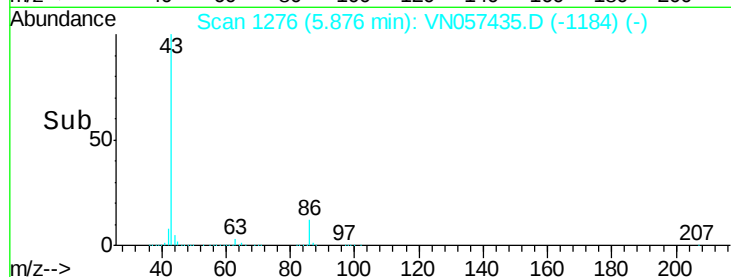
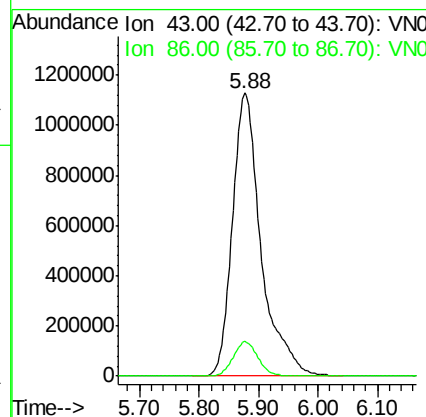
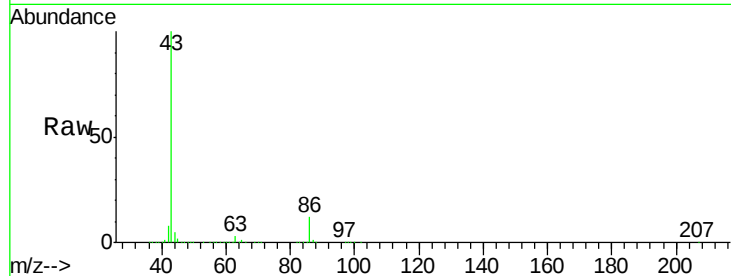
#23
 Vinyl Acetate
 Concen: 218.926 ug/l
 RT: 5.88 min Scan# 1276
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 3777907
 Ion Ratio Lower Upper
 43 100
 86 12.2 8.7 13.1

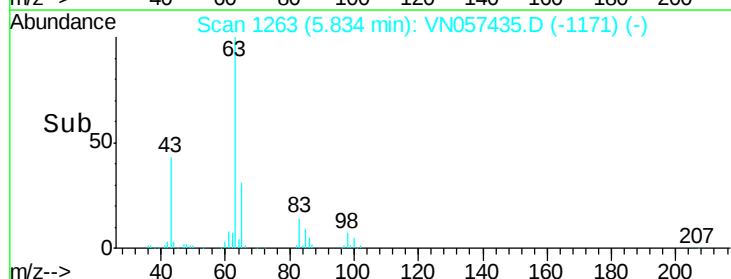
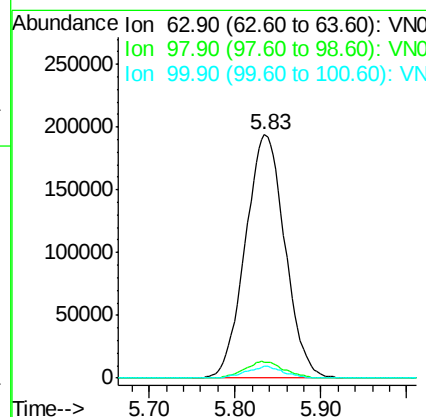
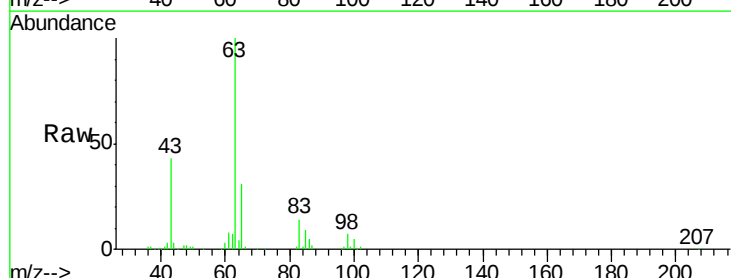
Manual Integrations
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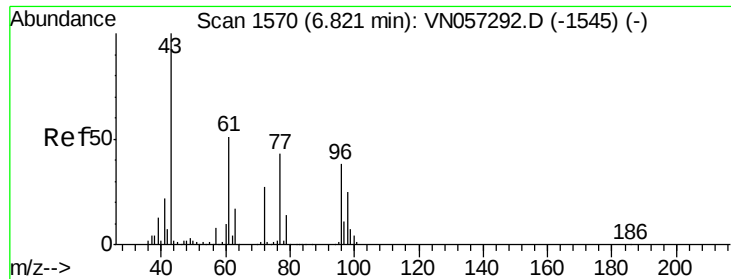
MMDadoda
 8/21/2019 9:45:51 AM



#24
 1,1-Dichloroethane
 Concen: 47.081 ug/l
 RT: 5.83 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion: 63 Resp: 621076
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.3 9.9
 100 4.8 2.1 6.5





#25

2-Butanone

Concen: 207.844 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 875980

Ion Ratio Lower Upper

43 100

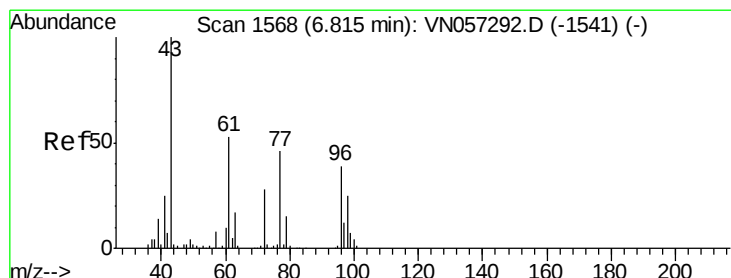
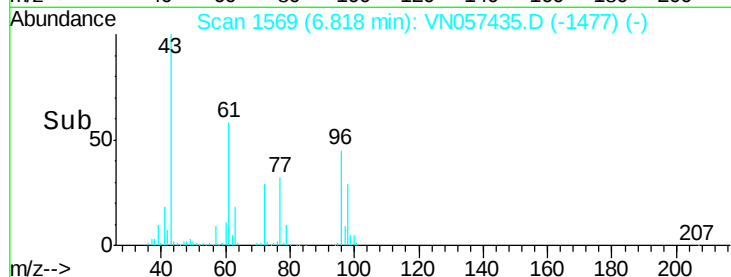
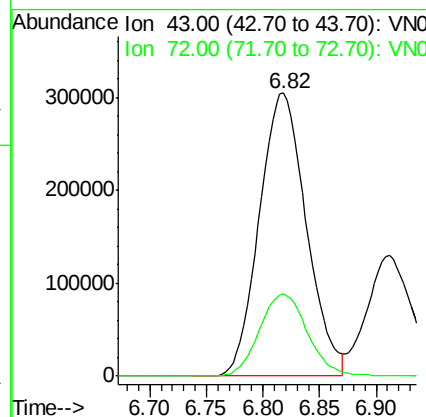
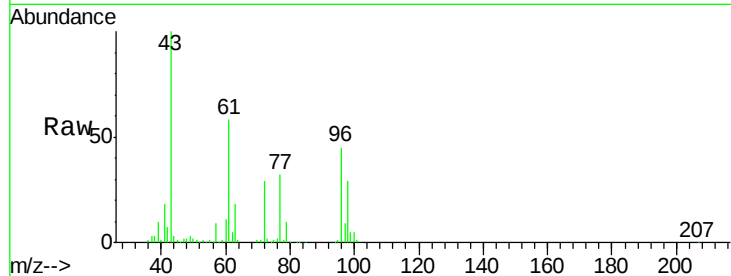
72 29.2 21.5 32.3

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#26

2,2-Dichloropropane

Concen: 31.853 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN057435.D

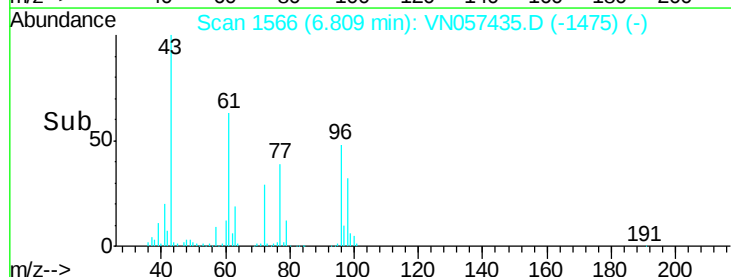
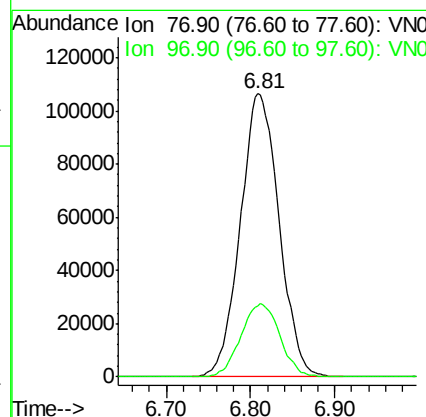
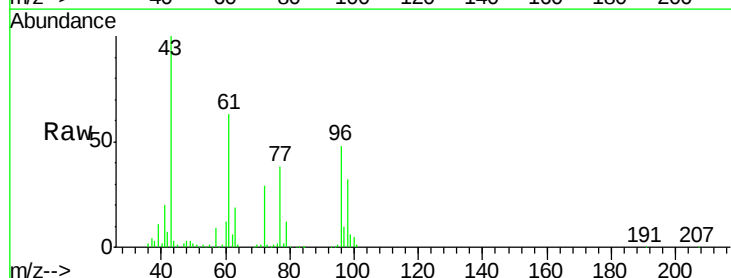
Acq: 20 Aug 2019 6:28

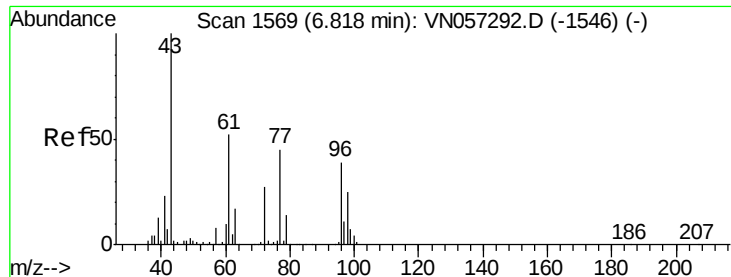
Tgt Ion: 77 Resp: 339584

Ion Ratio Lower Upper

77 100

97 26.0 12.3 36.9





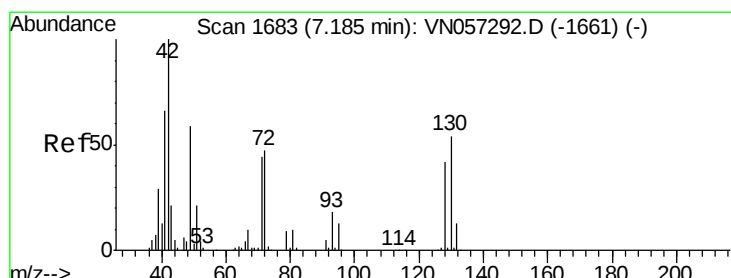
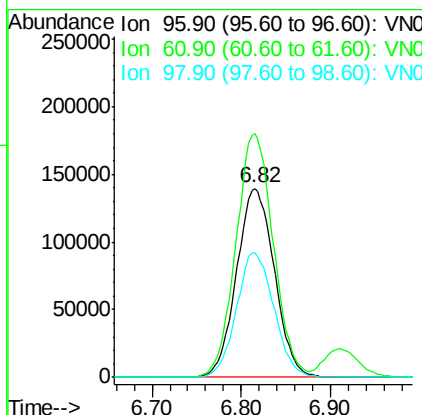
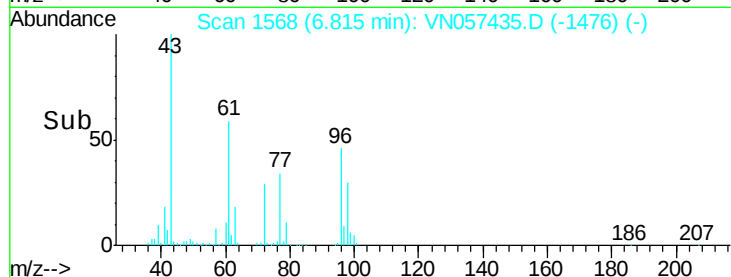
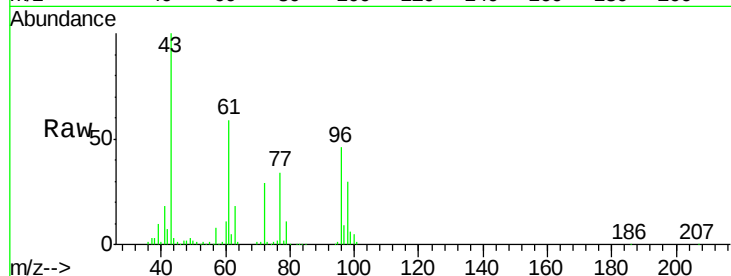
#27
 cis-1,2-Dichloroethene
 Concen: 47.681 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	127.5	0.0	272.0	
98	65.3	0.0	130.4	

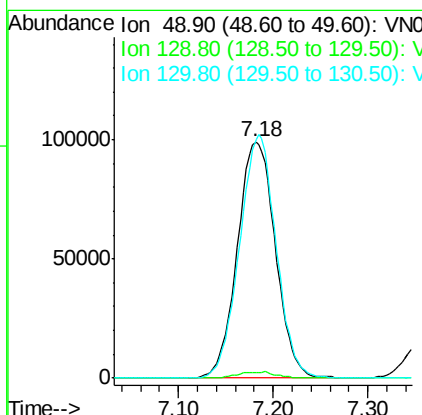
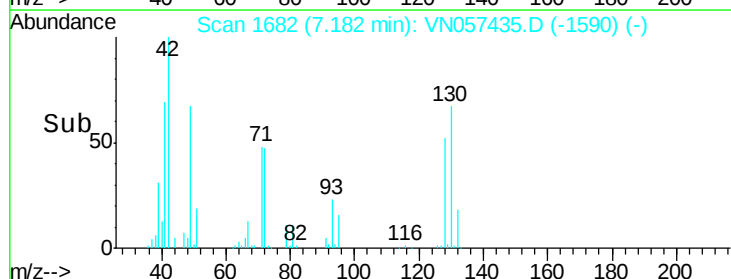
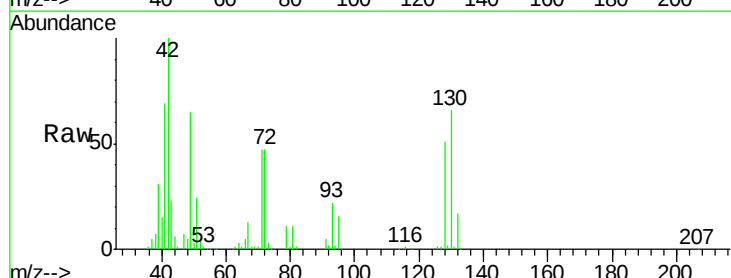
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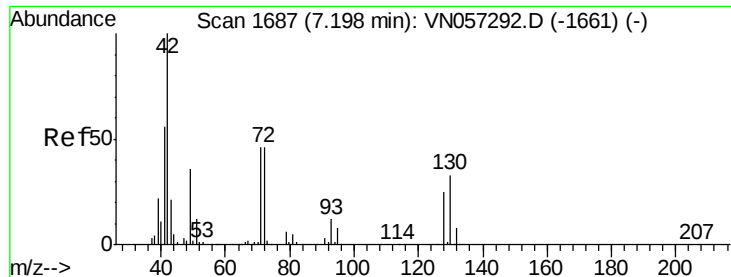
MMDadoda
 8/21/2019 9:45:51 AM



#28
 Bromochloromethane
 Concen: 47.306 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.6	0.0	2.0#	
130	98.7	73.2	109.8	





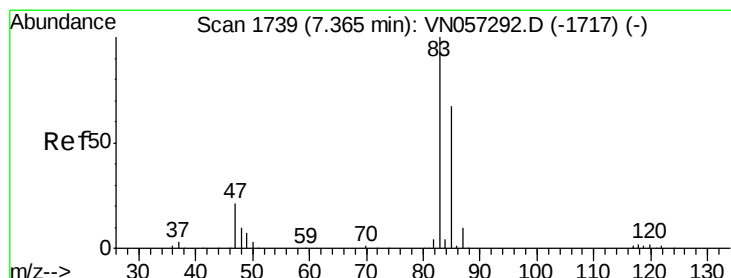
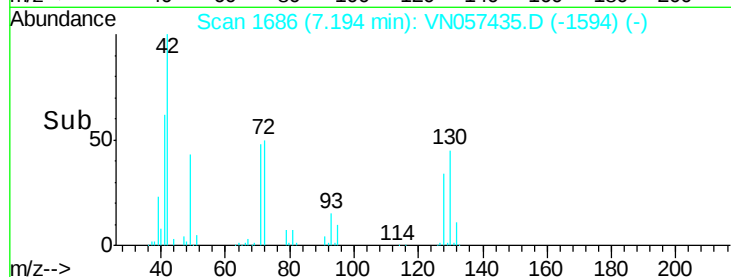
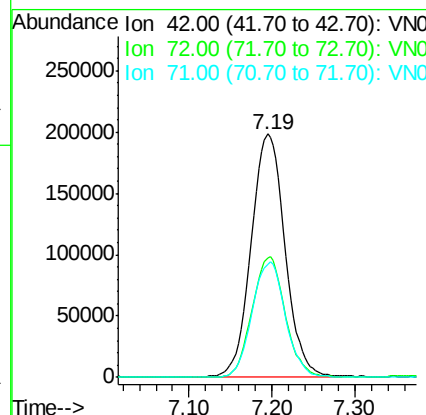
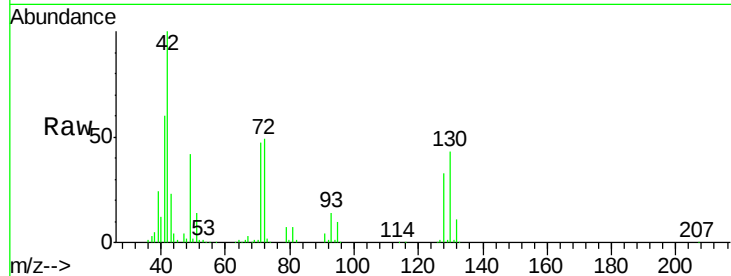
#29
Tetrahydrofuran
Concen: 211.746 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.2	37.8	56.6
71	46.7	35.7	53.5

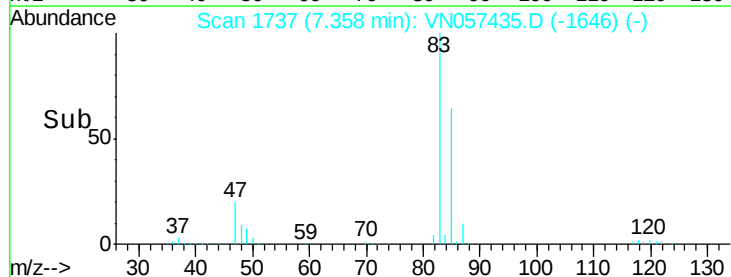
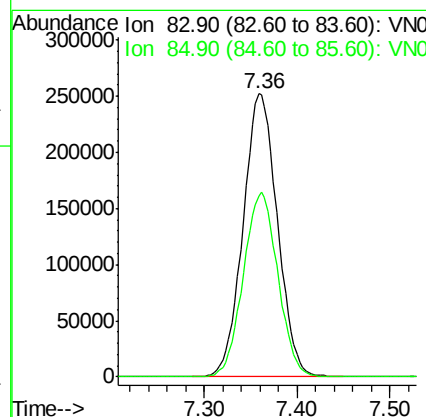
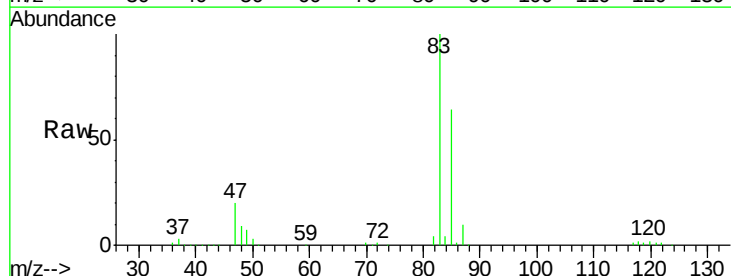
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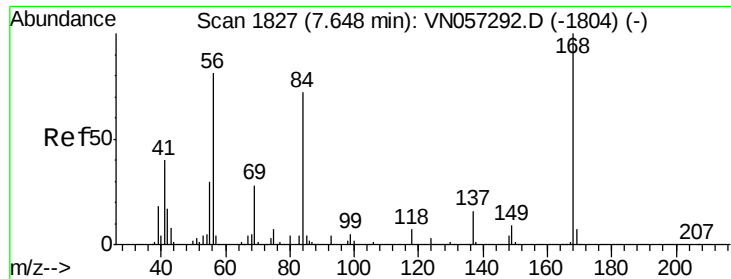
MMDadoda
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#30
Chloroform
Concen: 46.915 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.3	79.9





#31

Cyclohexane

Concen: 43.259 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 494527
Ion Ratio Lower Upper

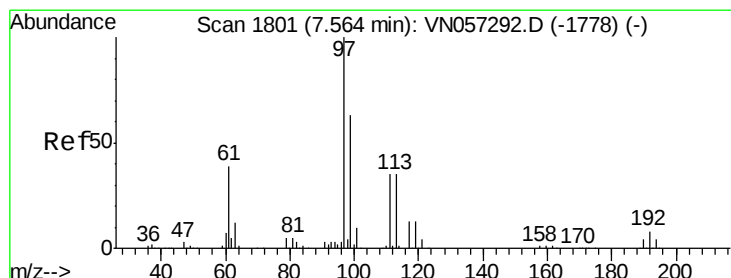
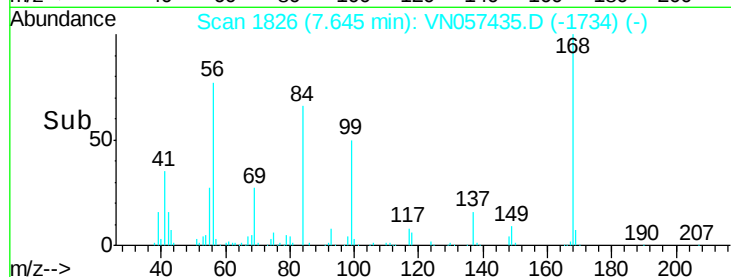
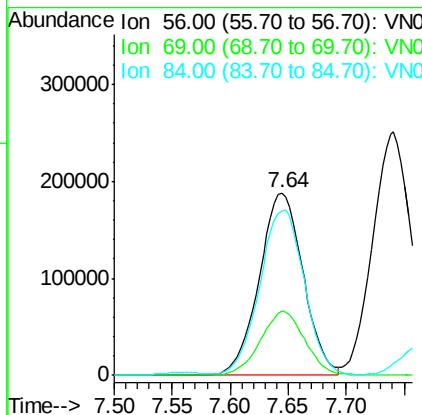
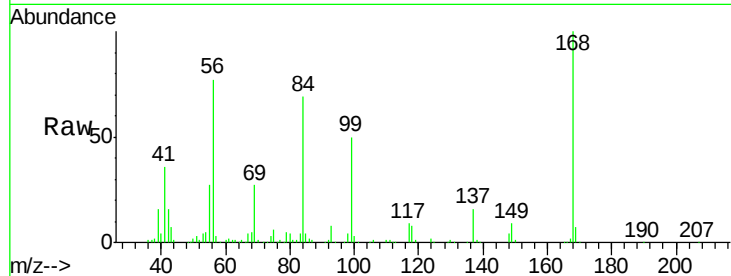
56 100

69 35.1 27.3 40.9

84 88.4 71.0 106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 49.631 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN057435.D

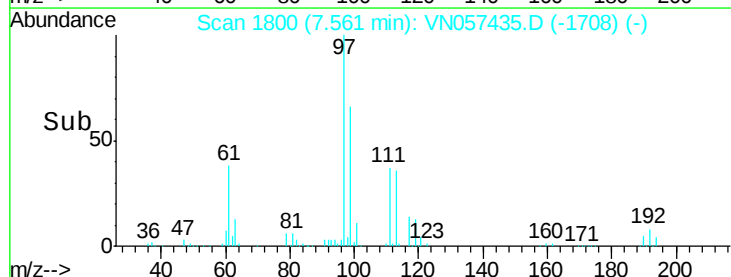
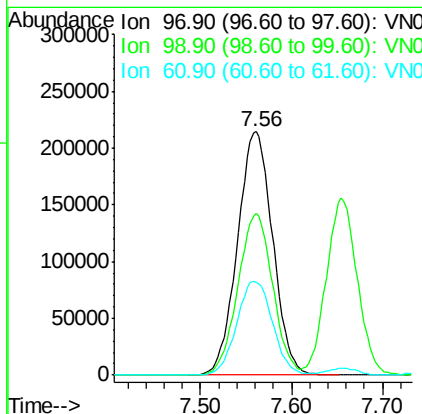
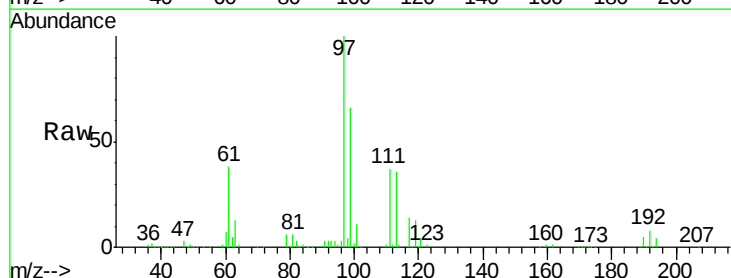
Acq: 20 Aug 2019 6:28

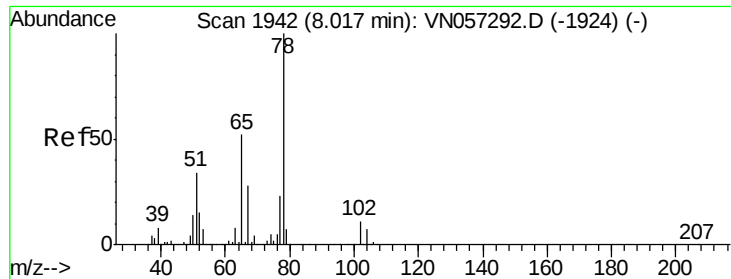
Tgt Ion: 97 Resp: 577083
Ion Ratio Lower Upper

97 100

99 65.5 50.3 75.5

61 39.2 31.3 46.9





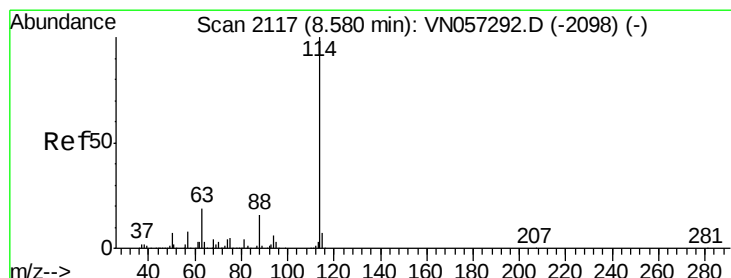
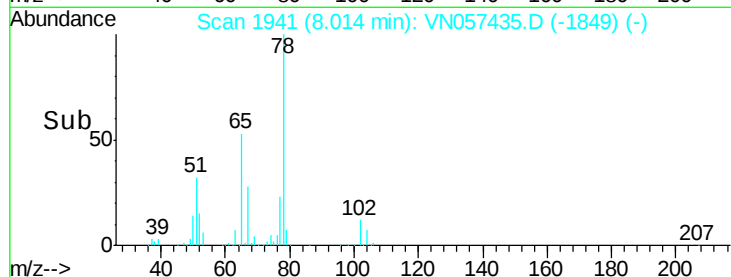
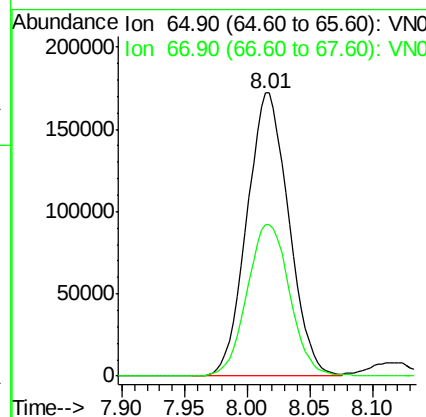
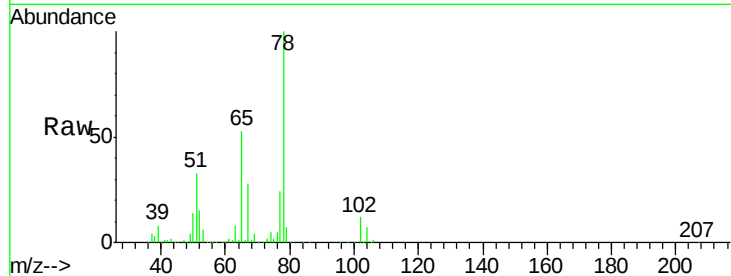
#33
 1,2-Dichloroethane-d4
 Concen: 47.798 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	401017		
67	54.4	0.0	107.4	

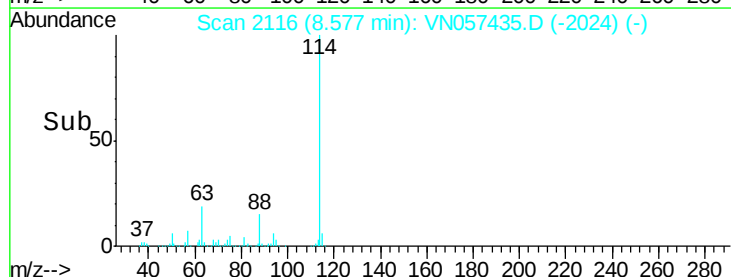
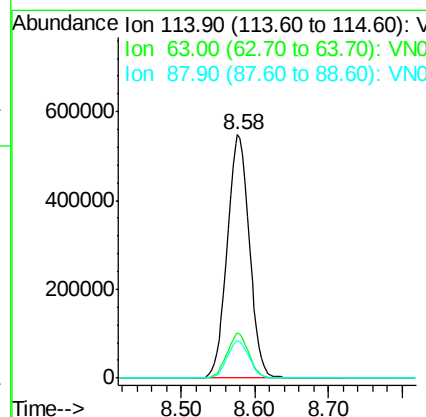
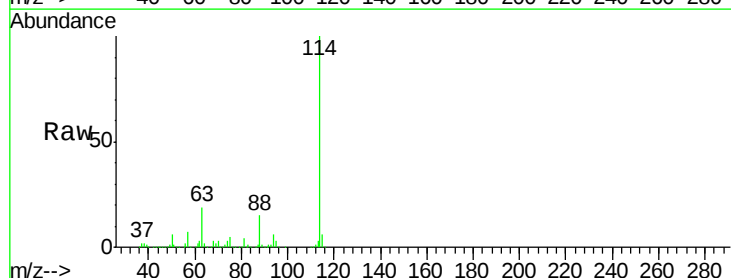
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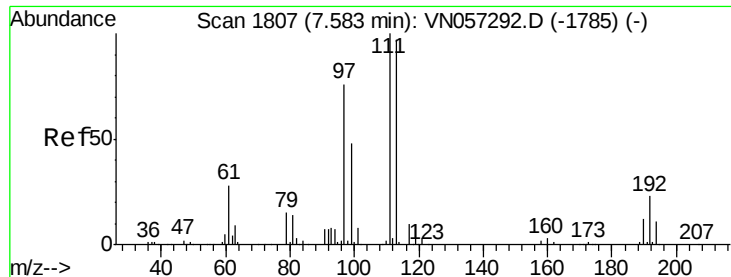
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1141873		
63	18.5	0.0	38.8	
88	15.5	0.0	31.4	





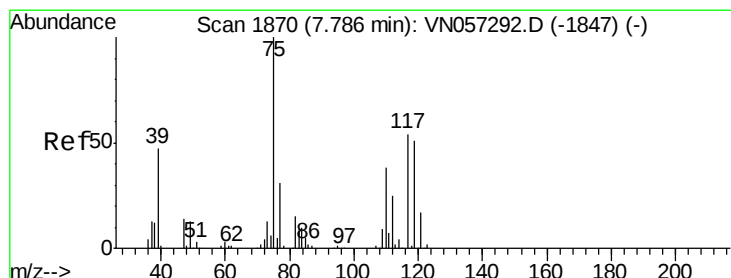
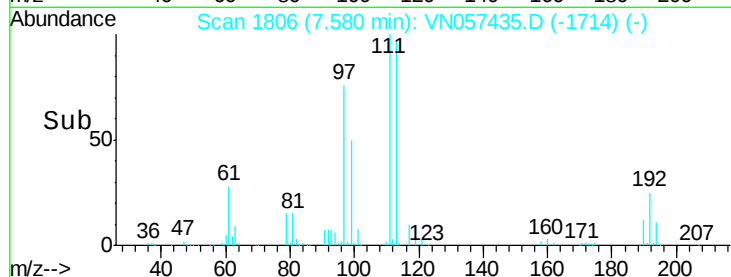
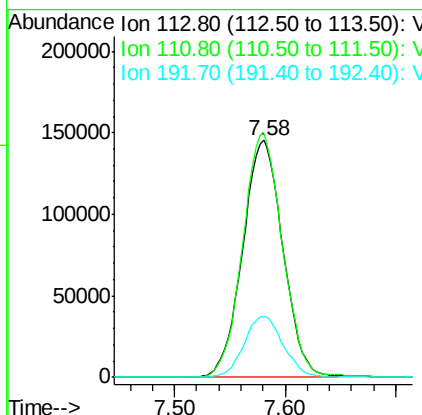
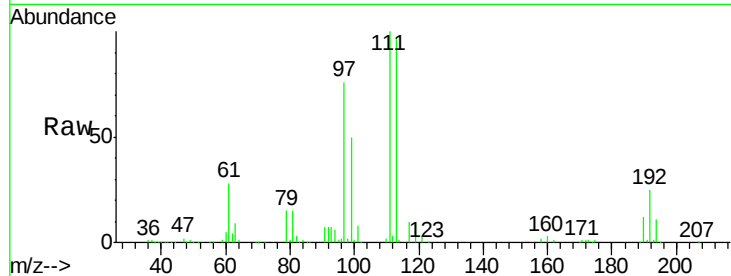
#35
 Dibromofluoromethane
 Concen: 49.025 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	366963		
111	102.4	82.1	123.1	
192	25.2	19.3	28.9	

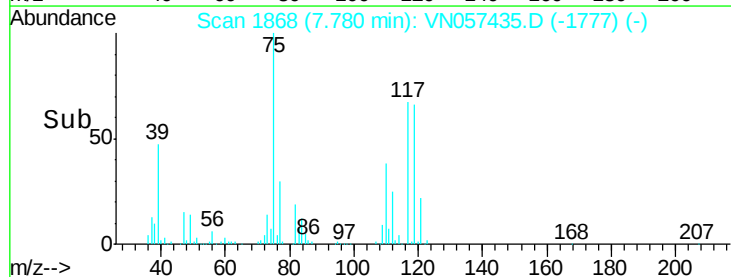
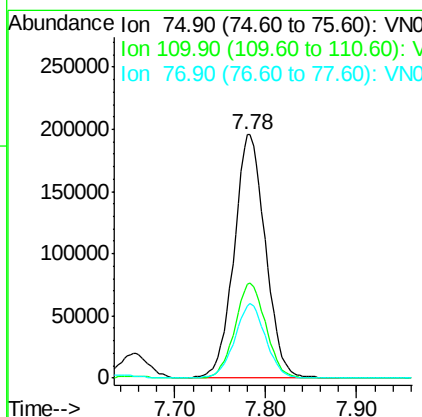
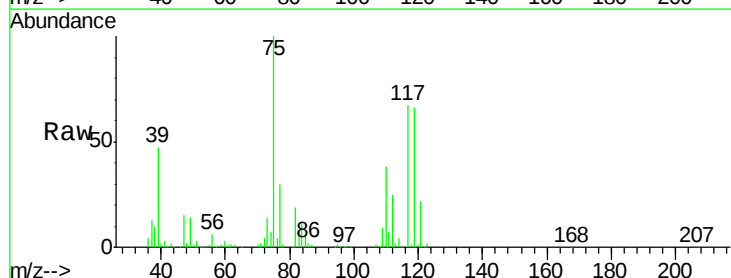
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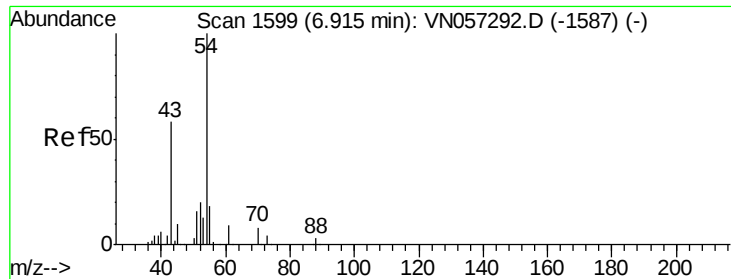
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#36
 1,1-Dichloropropene
 Concen: 46.241 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. -0.01 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	466199		
110	38.7	19.5	58.5	
77	30.4	25.0	37.6	





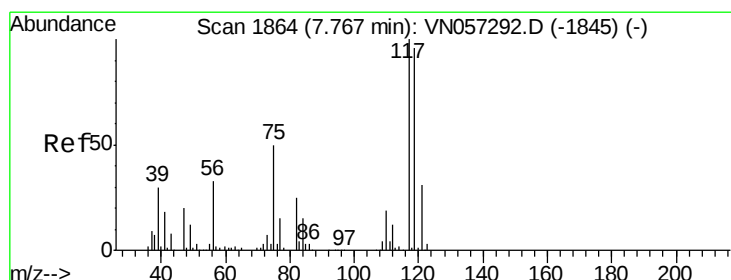
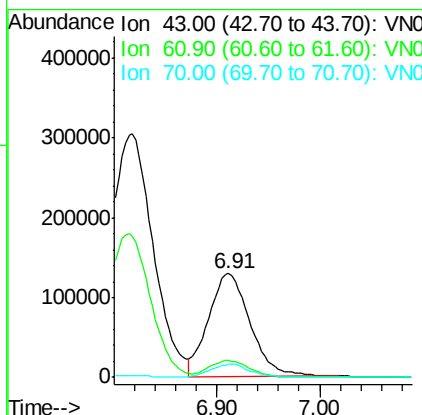
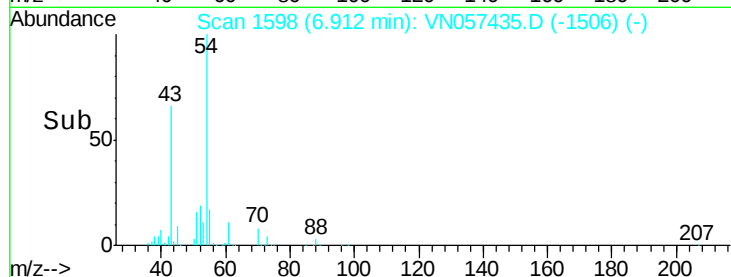
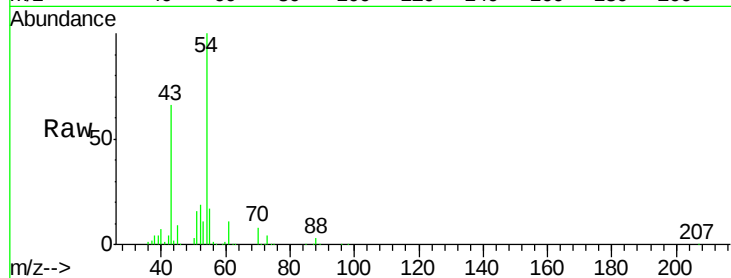
#37
Ethyl Acetate
Concen: 43.911 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.0	18.0
70	12.2	9.2	13.8

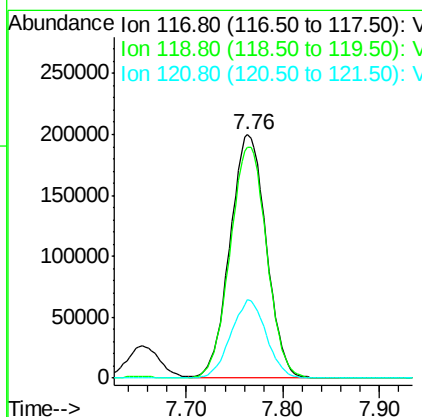
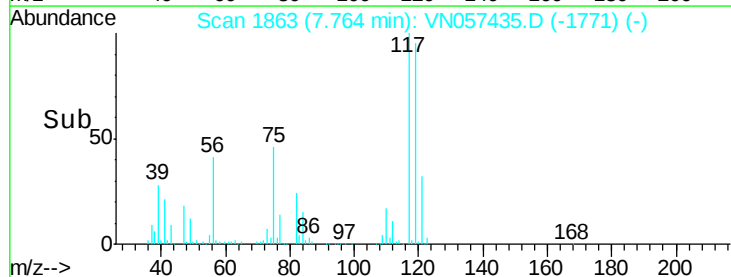
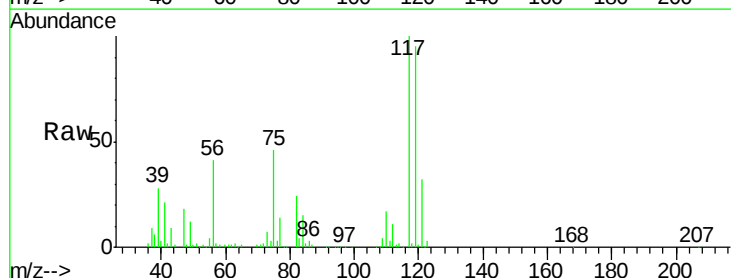
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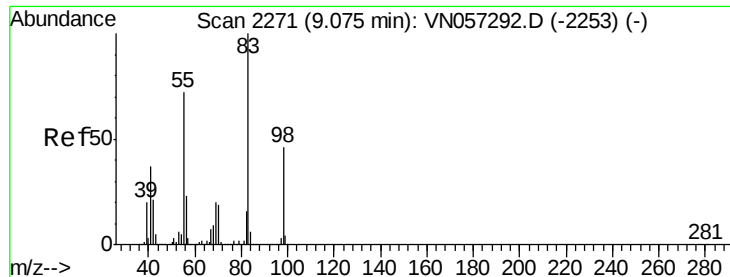
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#38
Carbon Tetrachloride
Concen: 49.565 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.8	115.2
121	32.0	25.0	37.4





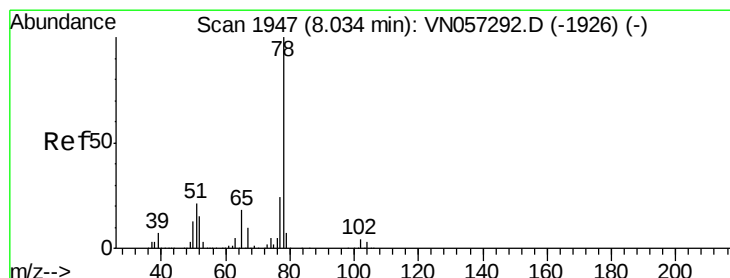
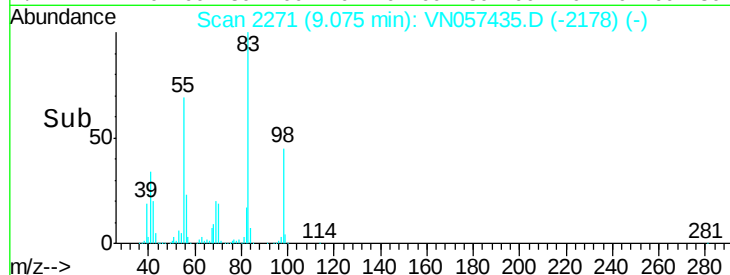
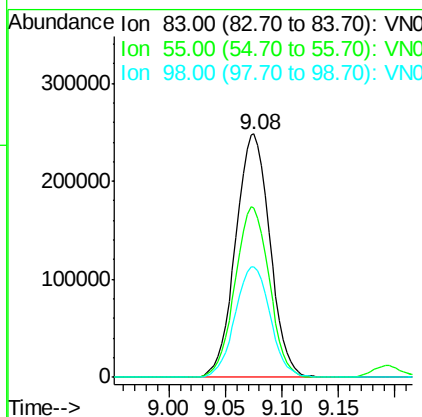
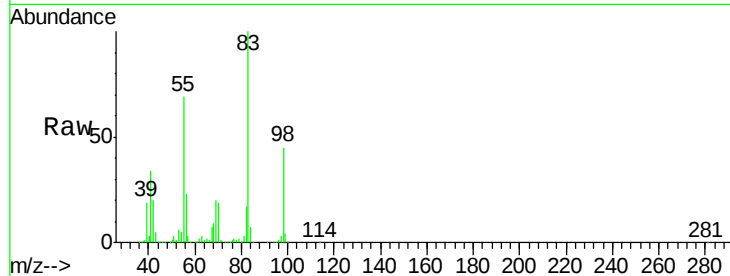
#39
Methvlcvclohexane
Concen: 44.693 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.5	57.5	86.3
98	45.5	36.6	55.0

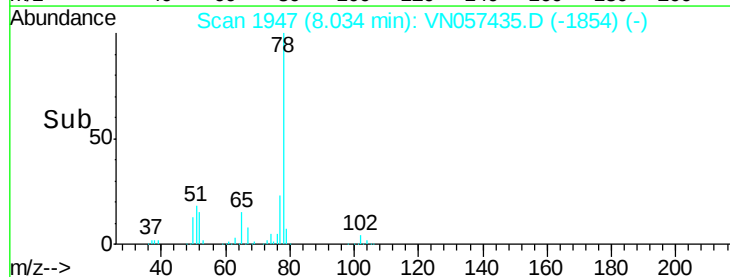
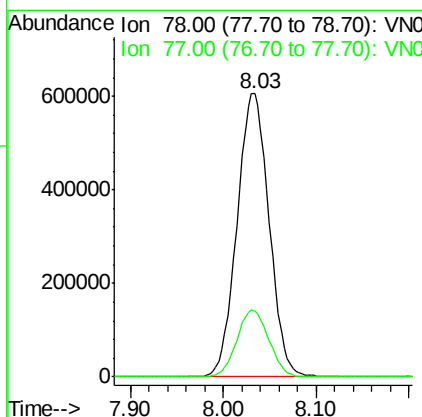
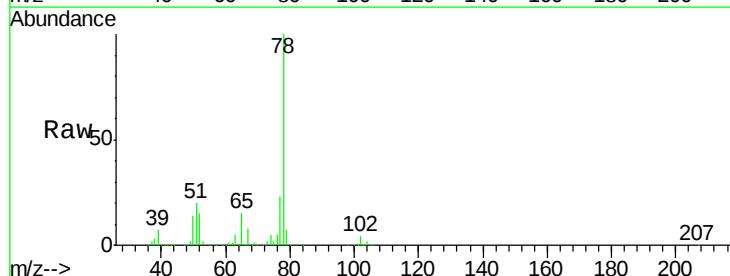
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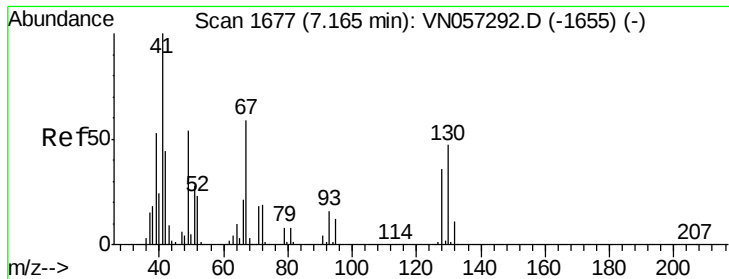
MMDadoda
8/21/2019 9:45:51 AM



#40
Benzene
Concen: 47.034 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.1	28.7





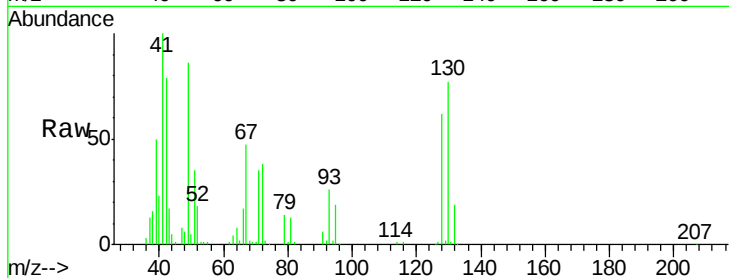
#41
Methacrylonitrile
Concen: 52.470 ug/l m
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

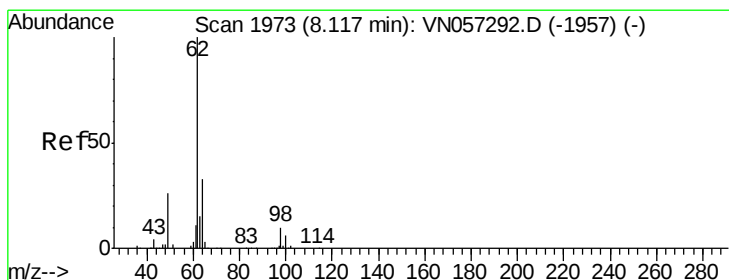
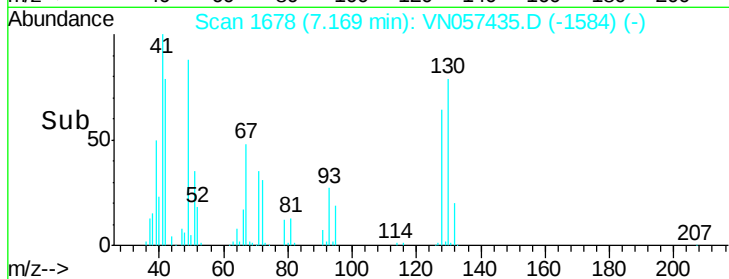
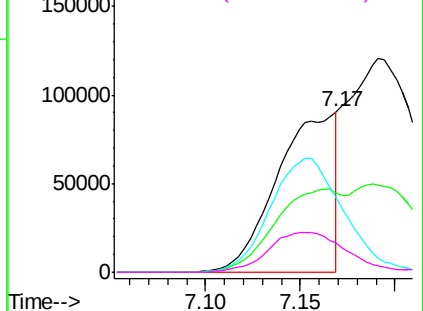
Tot Ion	Ratio	Resp Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

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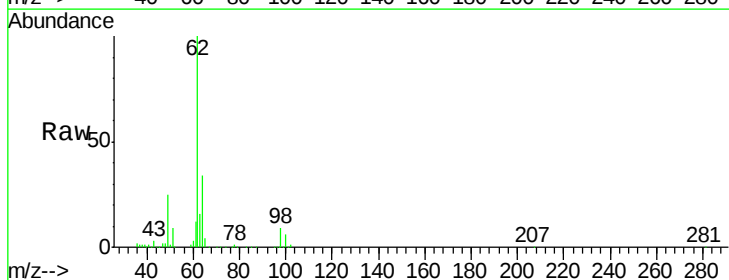


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

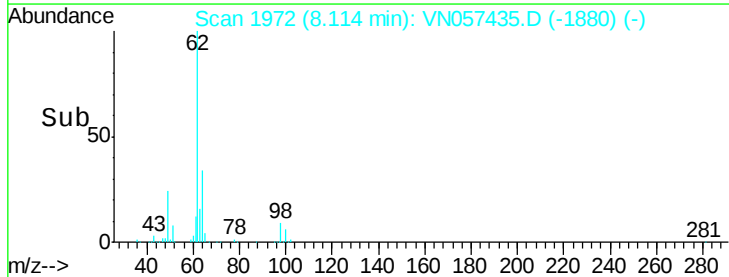
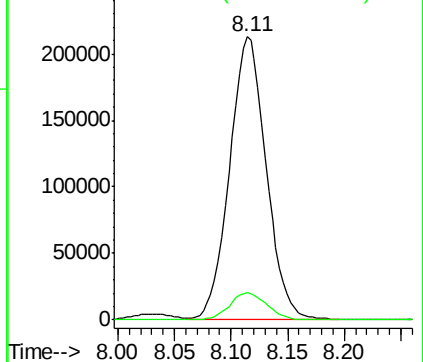


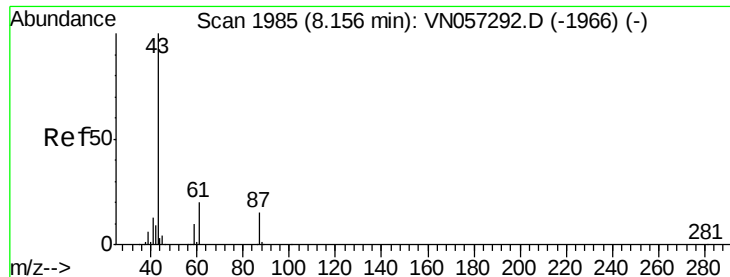
#42
1,2-Dichloroethane
Concen: 46.691 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp Lower	Upper
62	100		
98	9.8	0.0	19.4



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

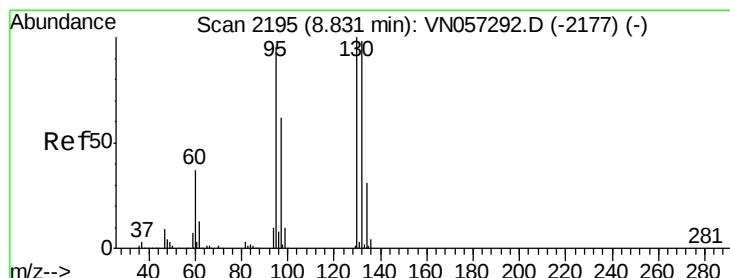
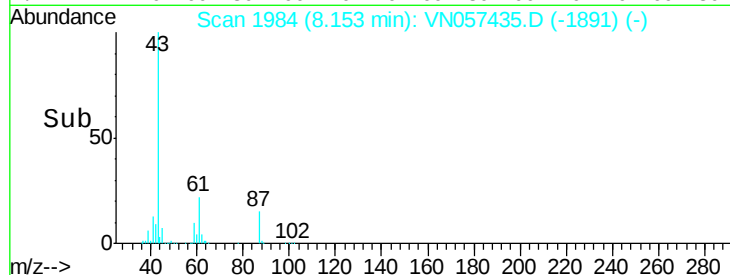
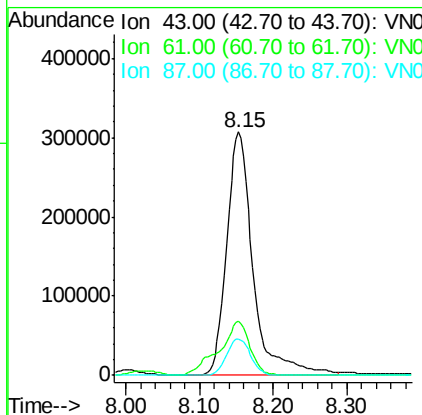
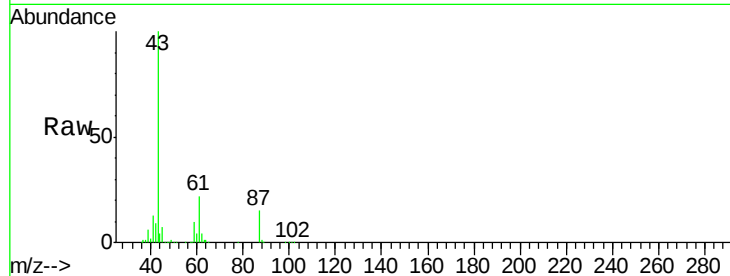
Isopropyl Acetate
 Concen: 50.267 ug/l
 RT: 8.15 min Scan# 1984
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.6	21.6	32.4
87	13.7	11.4	17.0

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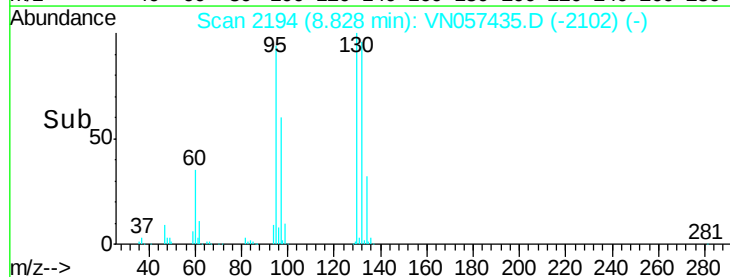
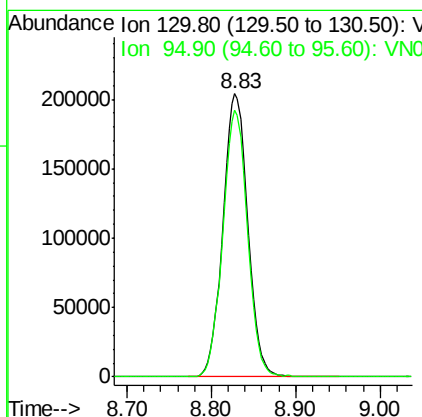
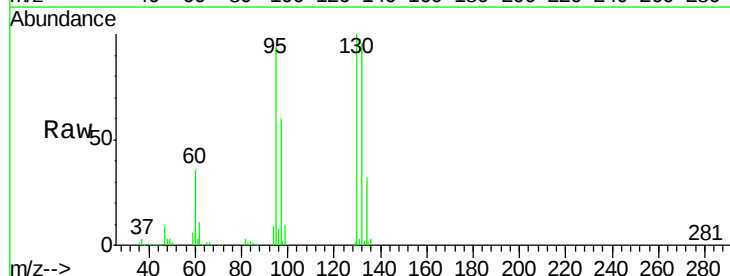
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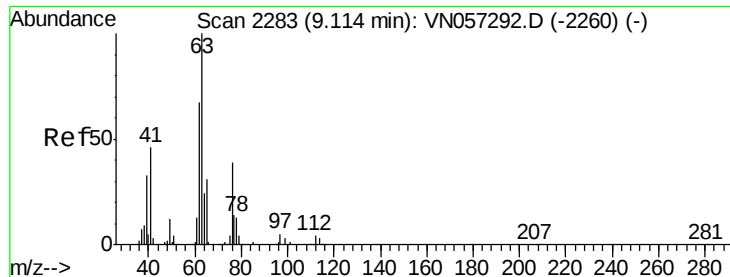


#44

Trichloroethene
 Concen: 48.188 ug/l
 RT: 8.83 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	189.2





#45

1,2-Dichloropropane

Concen: 46.556 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 370050

Ion Ratio Lower Upper

63 100

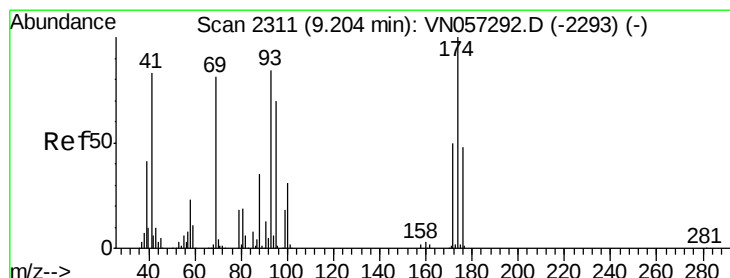
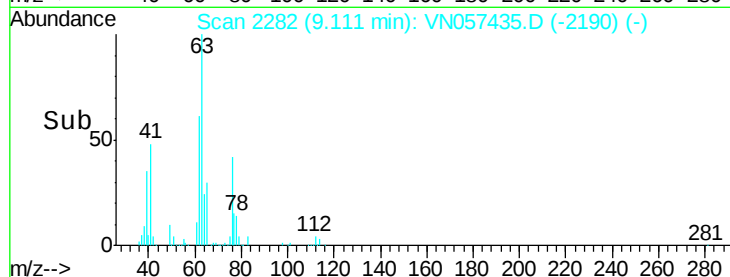
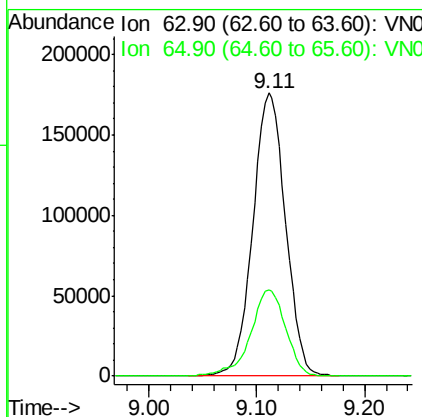
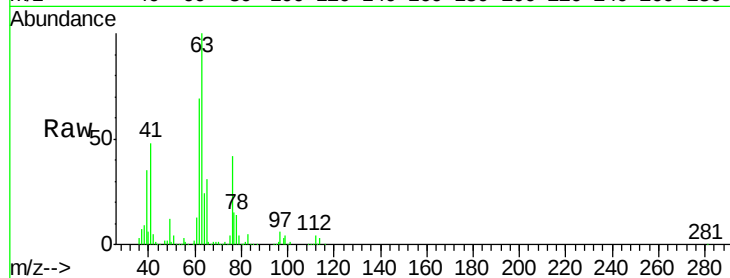
65 30.6 24.8 37.2

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#46

Dibromomethane

Concen: 47.696 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

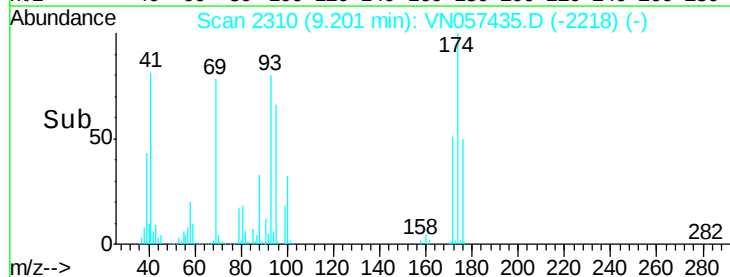
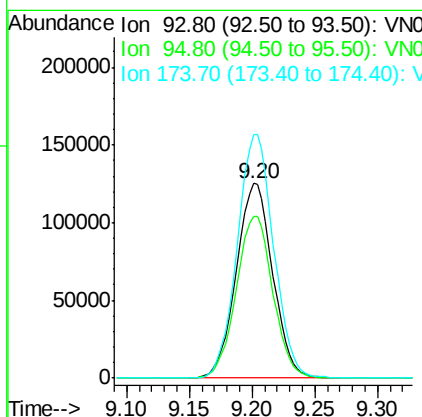
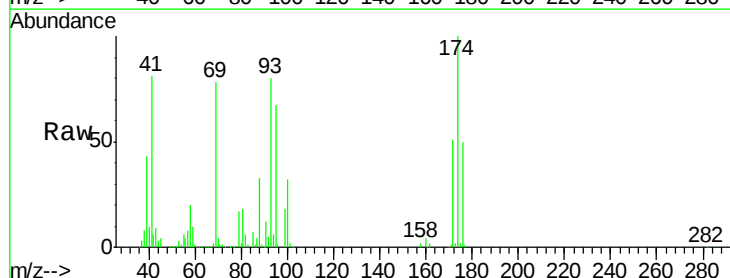
Tgt Ion: 93 Resp: 252917

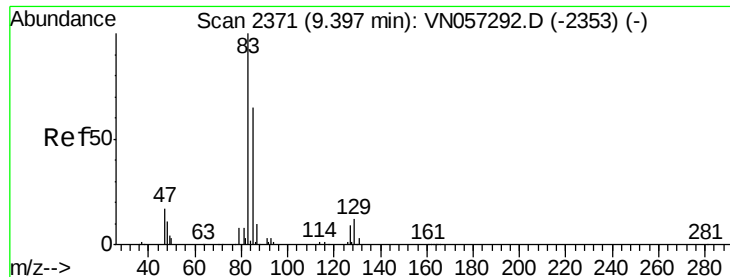
Ion Ratio Lower Upper

93 100

95 83.6 66.5 99.7

174 125.1 95.7 143.5





#47

Bromodichloromethane

Concen: 49.213 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

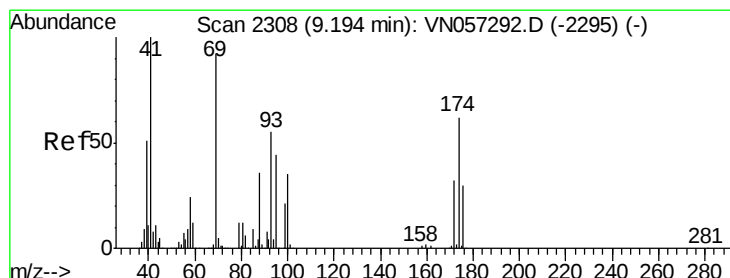
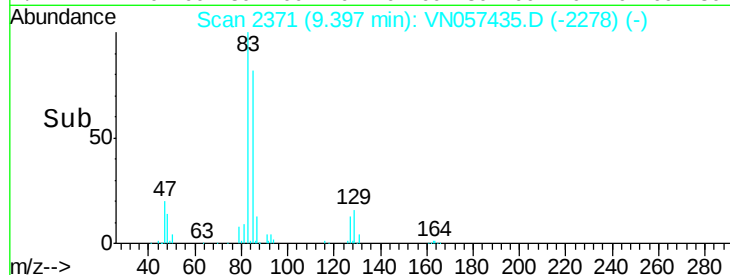
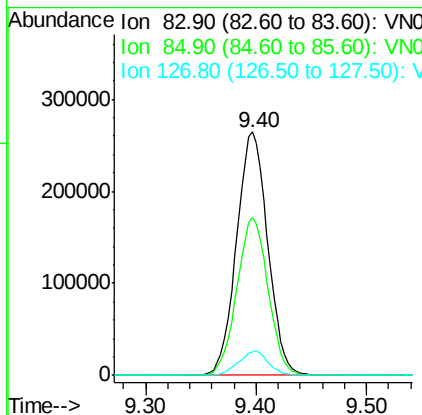
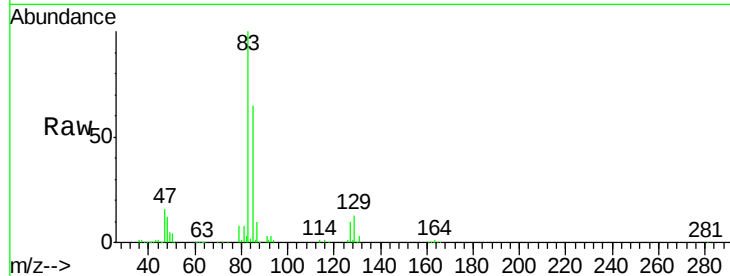
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	517053
Ion Ratio	Lower	Upper	
83	100		
85	64.7	51.9	77.9
127	9.8	7.2	10.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 44.017 ug/l

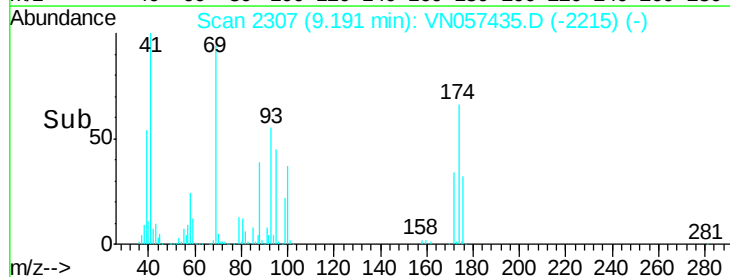
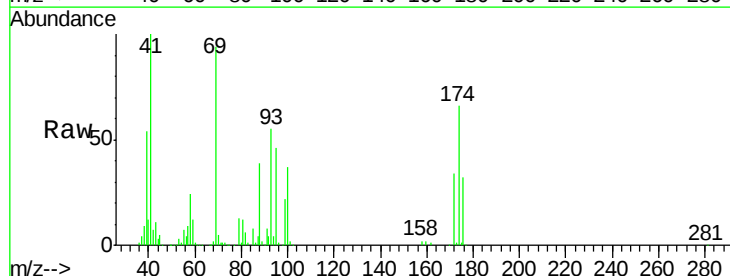
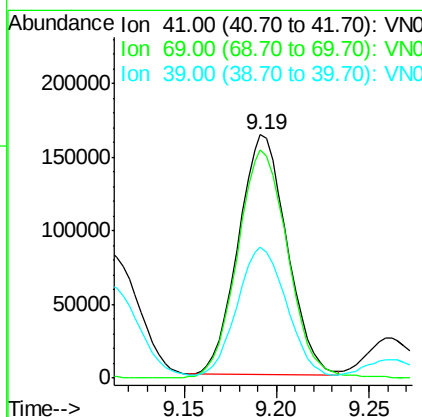
RT: 9.19 min Scan# 2307

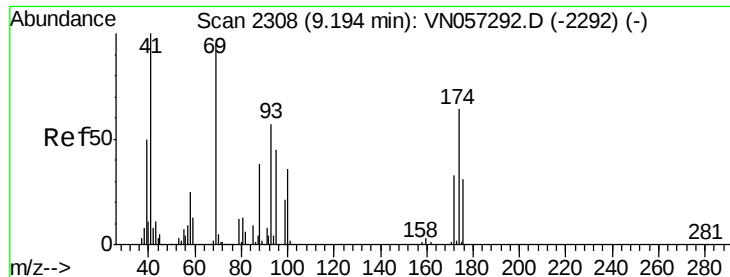
Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Tgt Ion:	41	Resp:	299312
Ion Ratio	Lower	Upper	
41	100		
69	98.3	75.9	113.9
39	55.9	42.3	63.5





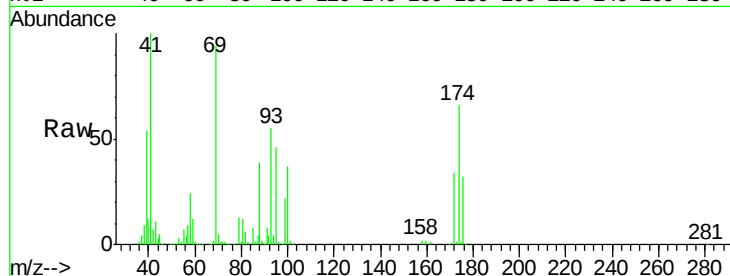
#49
1,4-Dioxane
Concen: 936.107 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	26.3	22.9	34.3
58	60.5	52.7	79.1

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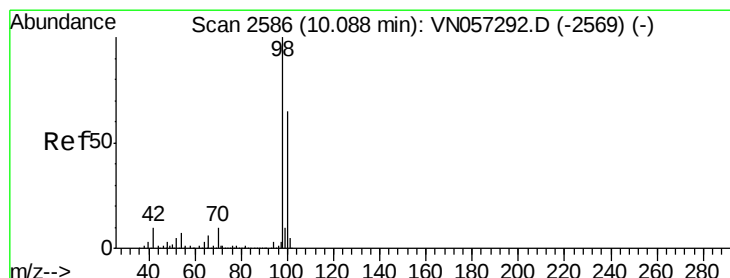
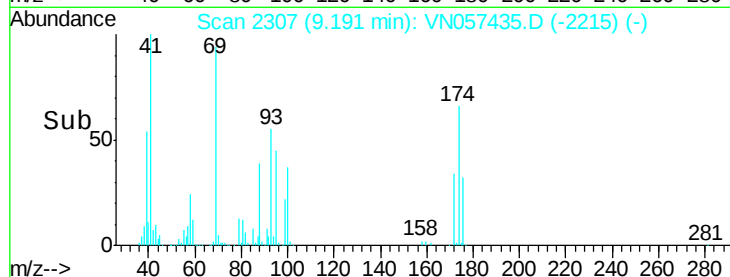
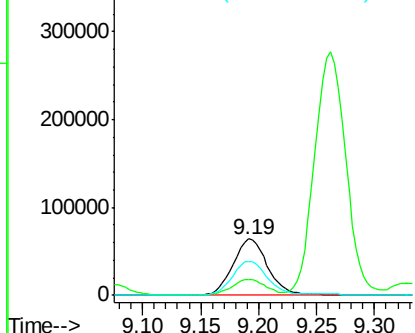
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Abundance Ion 88.00 (87.70 to 88.70): VN057292.D (-2292) (-)

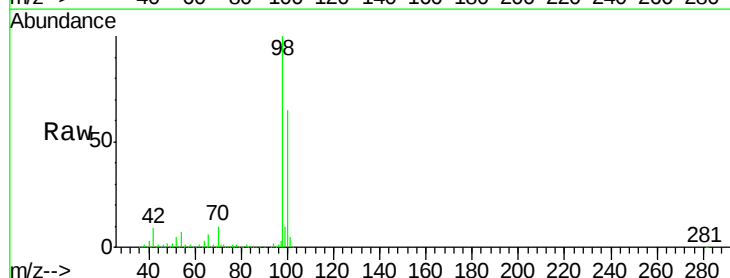
Ion 43.00 (42.70 to 43.70): VN057292.D (-2292) (-)

Ion 58.00 (57.70 to 58.70): VN057292.D (-2292) (-)



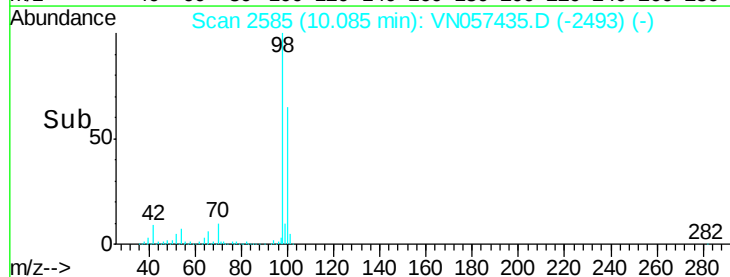
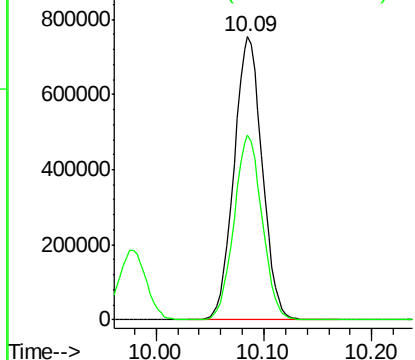
#50
Toluene-d8
Concen: 50.141 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

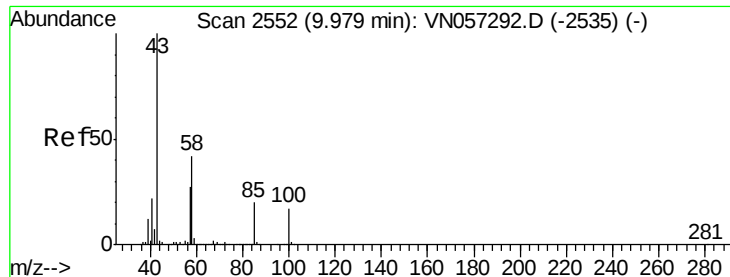
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.9	77.9



Abundance Ion 98.00 (97.70 to 98.70): VN057292.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057292.D (-2569) (-)





#51

4-Methyl-2-Pentanone

Concen: 217.876 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1856070

Ion Ratio Lower Upper

43 100

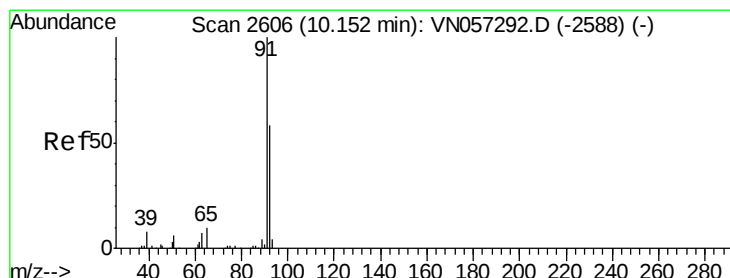
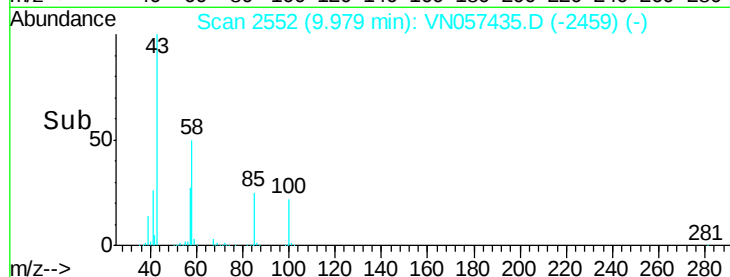
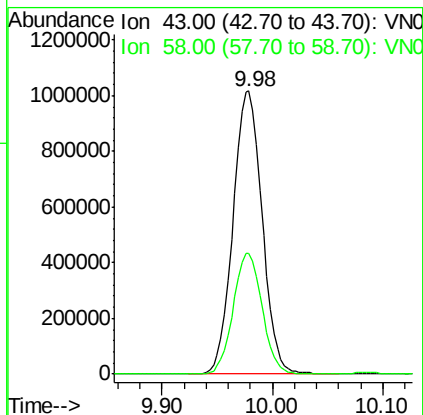
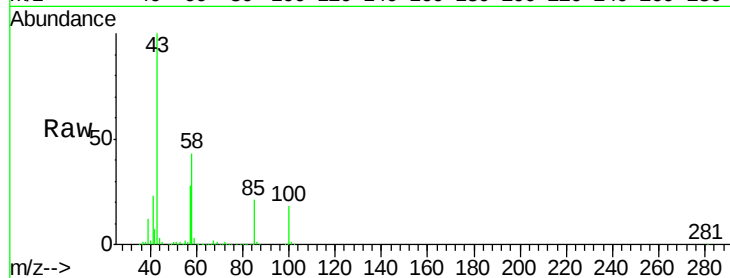
58 42.5 33.2 49.8

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#52

Toluene

Concen: 48.752 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057435.D

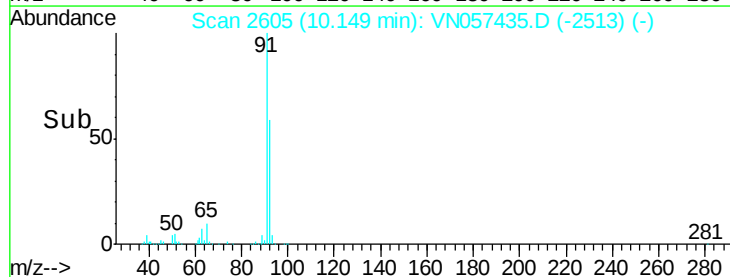
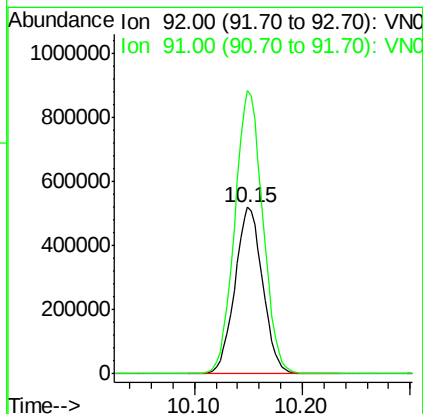
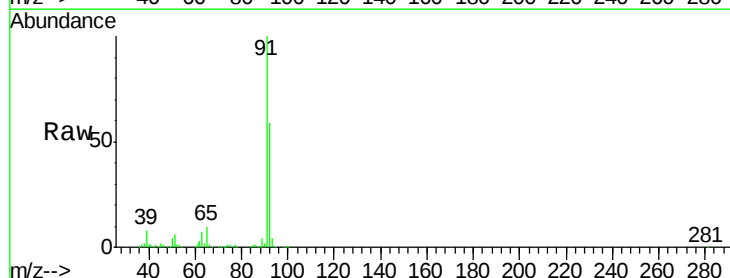
Acq: 20 Aug 2019 6:28

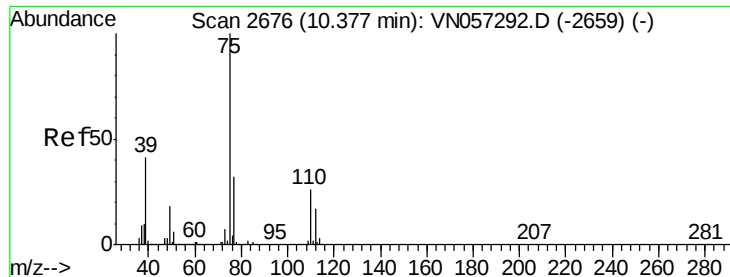
Tgt Ion: 92 Resp: 935728

Ion Ratio Lower Upper

92 100

91 171.6 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 45.590 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 518102

Ion Ratio Lower Upper

75 100

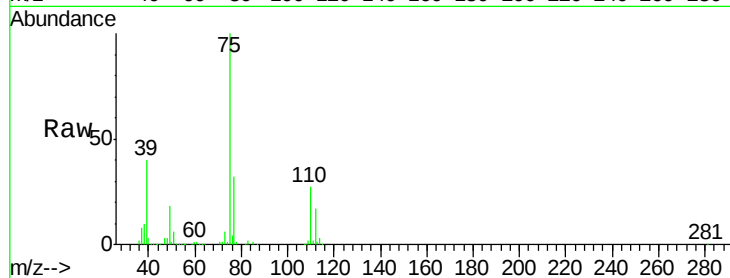
77 31.8 25.5 38.3

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

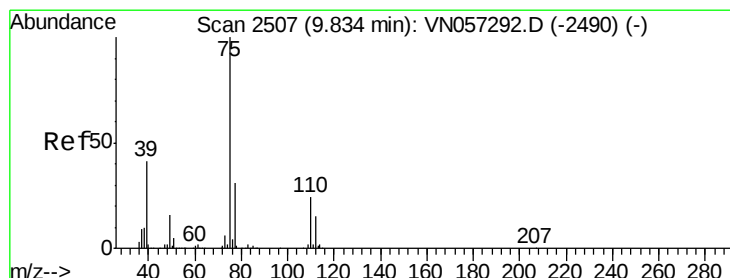
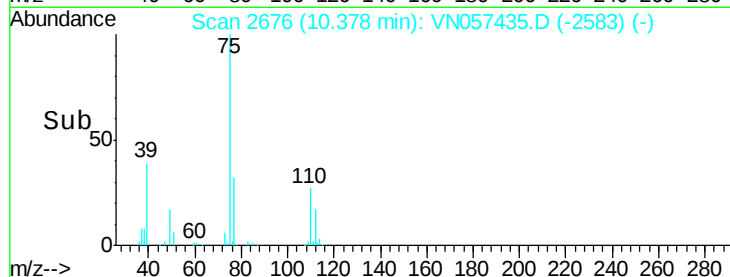
300000

200000

100000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 45.734 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

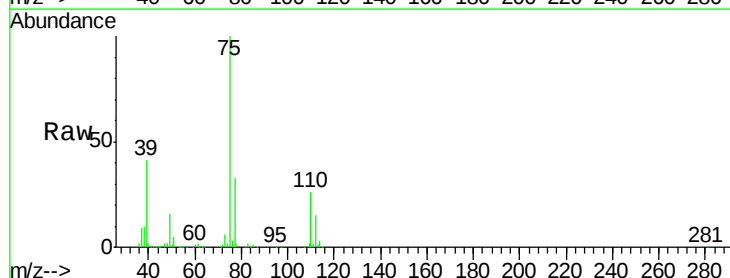
Tgt Ion: 75 Resp: 573119

Ion Ratio Lower Upper

75 100

77 32.6 24.9 37.3

39 40.6 32.7 49.1



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.83

400000

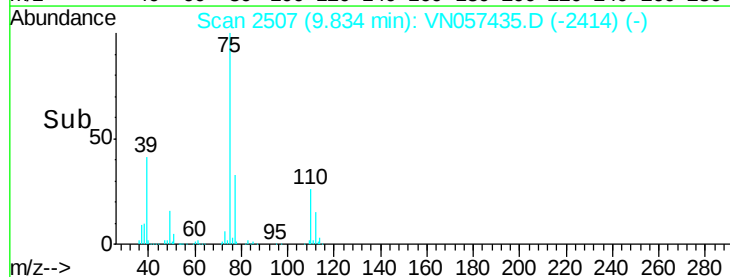
300000

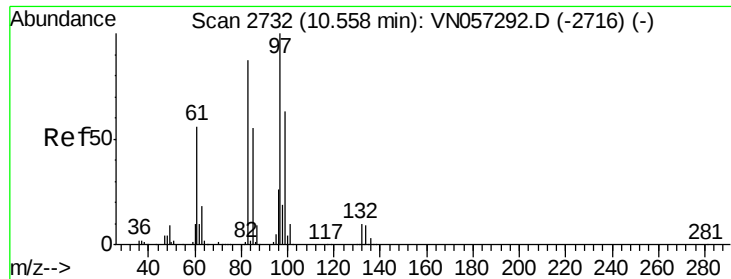
200000

100000

0

Time-->





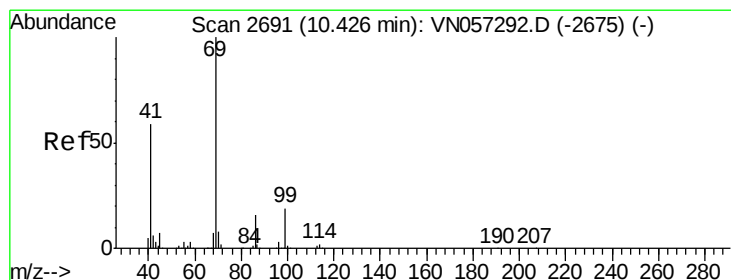
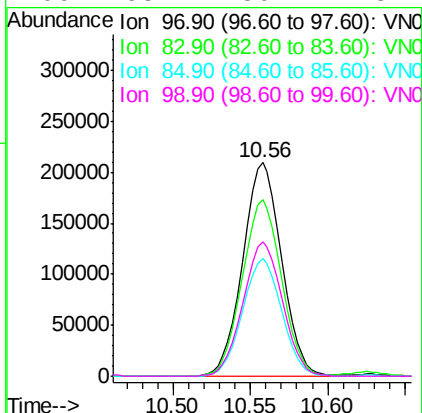
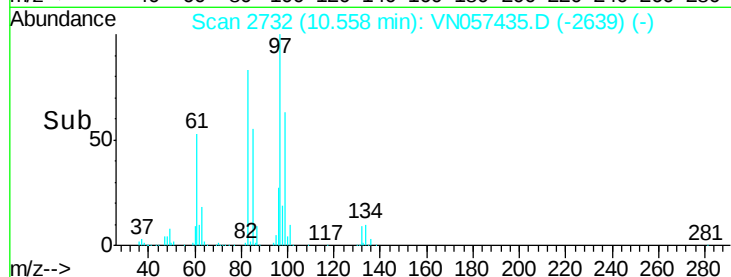
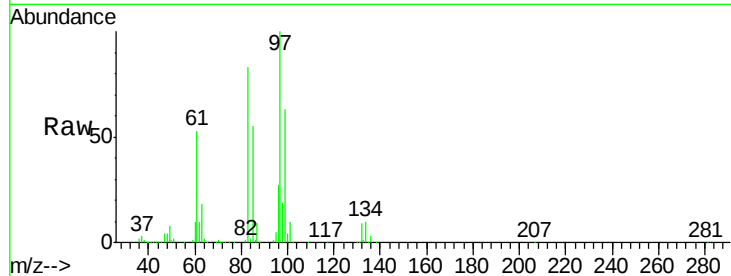
#55
 1,1,2-Trichloroethane
 Concen: 48.623 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		366978		
83	82.5	69.8	104.8		
85	55.2	44.1	66.1		
99	63.1	50.2	75.2		

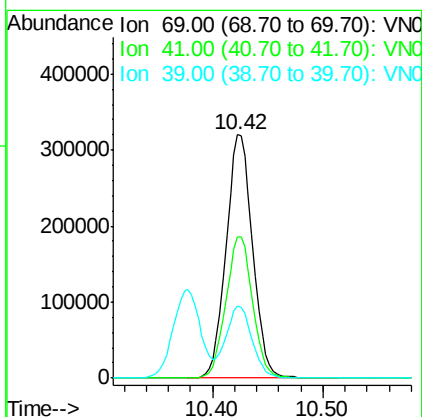
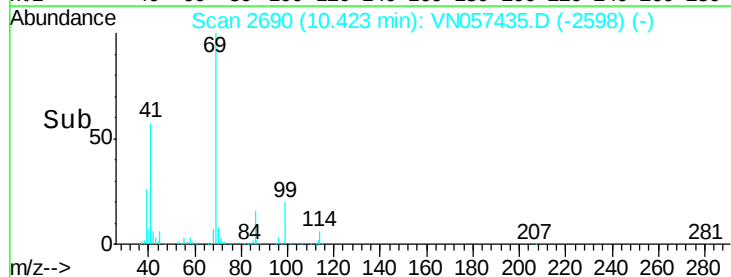
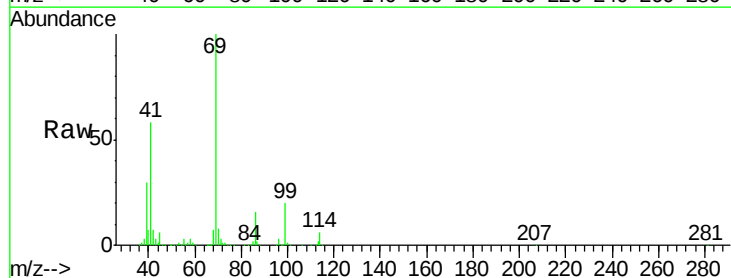
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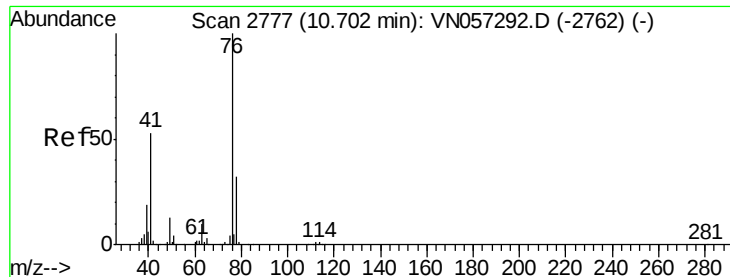
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 8/21/2019 9:45:51 AM



#56
 Ethyl methacrylate
 Concen: 48.381 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. -0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		532884		
41	58.3	48.2	72.2		
39	29.5	23.4	35.0		





#57

1,3-Dichloropropane

Concen: 47.357 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 597098

Ion Ratio Lower Upper

76 100

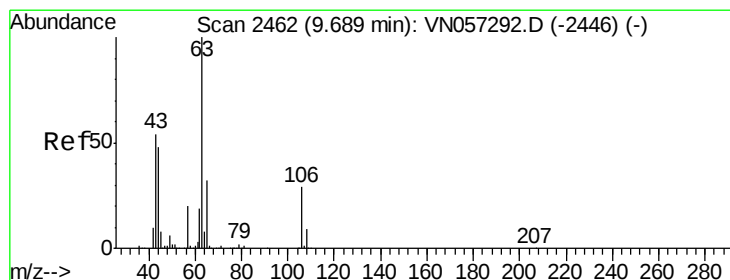
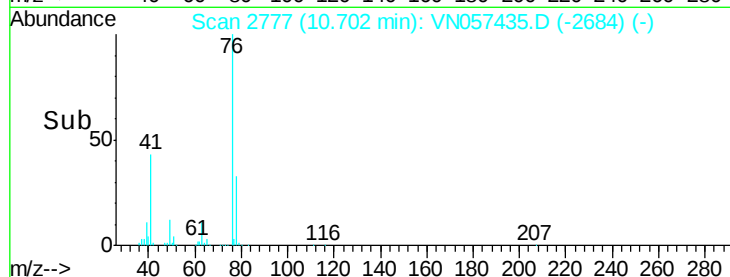
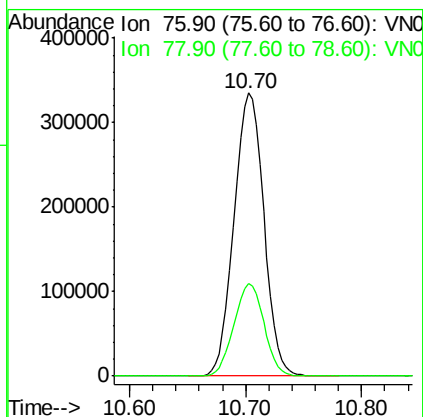
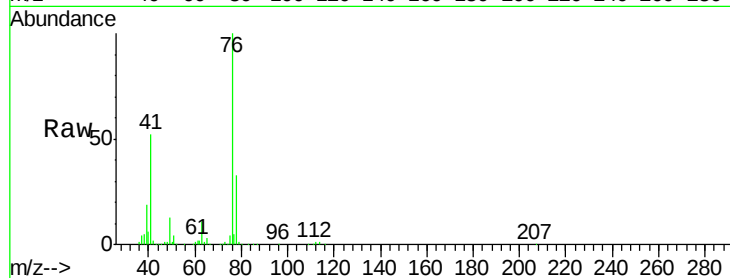
78 32.9 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 194.475 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057435.D

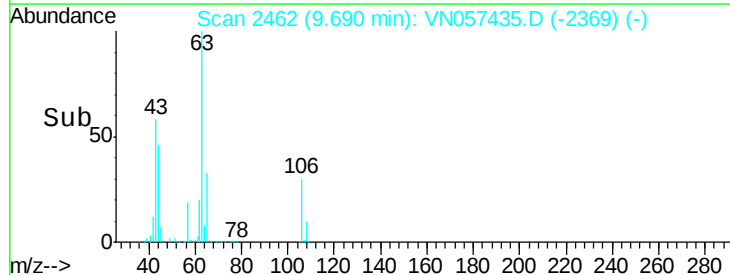
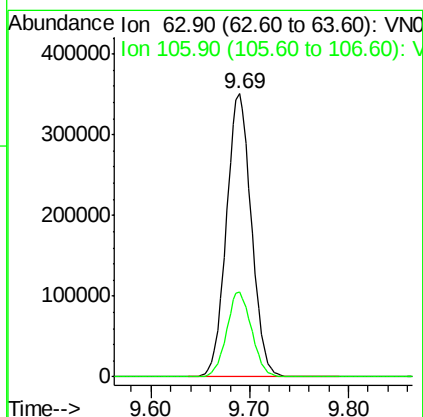
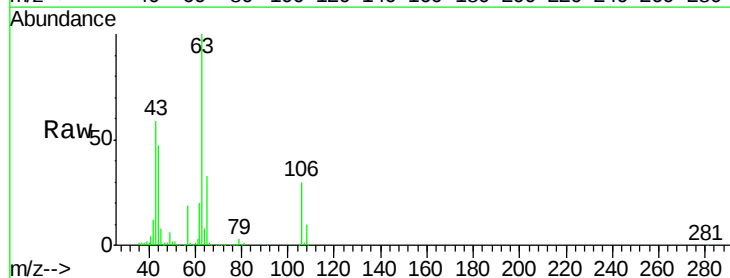
Acq: 20 Aug 2019 6:28

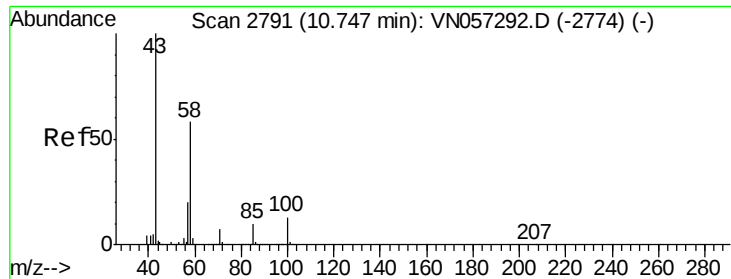
Tgt Ion: 63 Resp: 621937

Ion Ratio Lower Upper

63 100

106 30.1 23.2 34.8





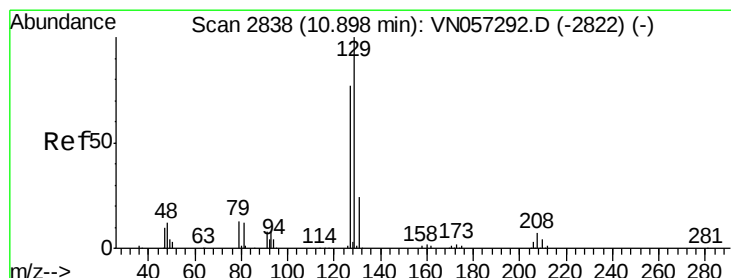
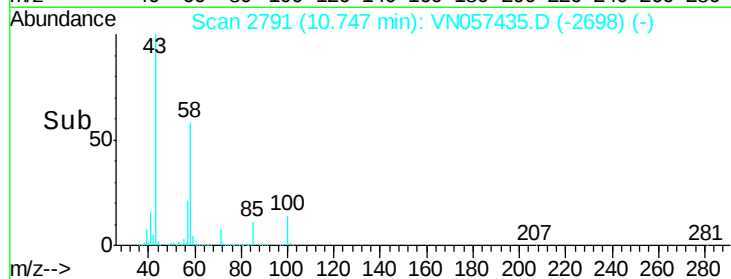
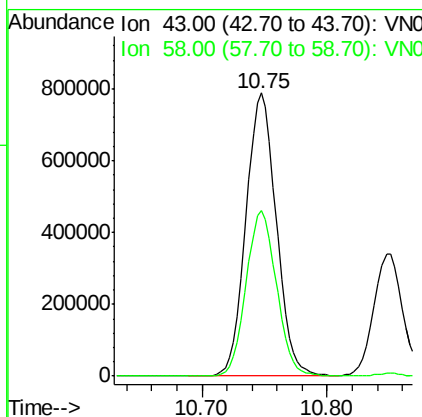
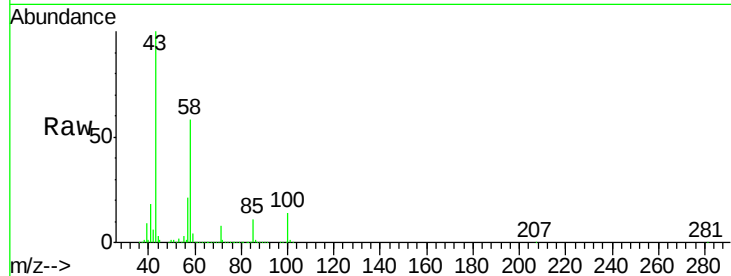
#59
2-Hexanone
Concen: 215.947 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1322561
Ion Ratio Lower Upper
43 100
58 58.5 28.6 85.9

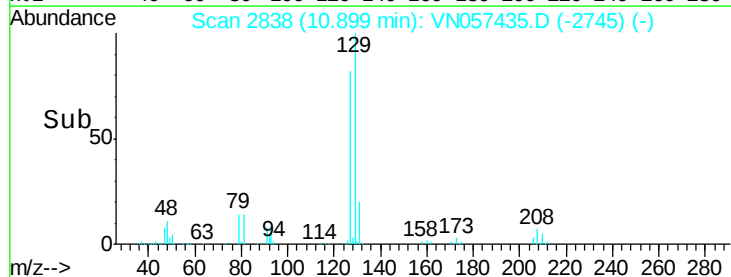
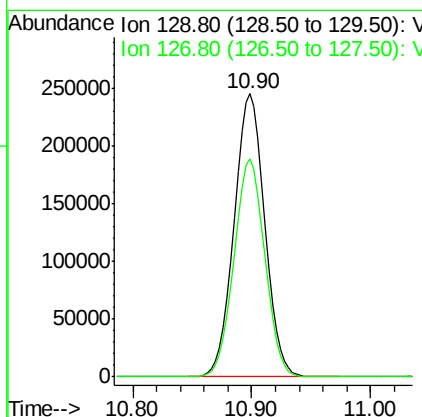
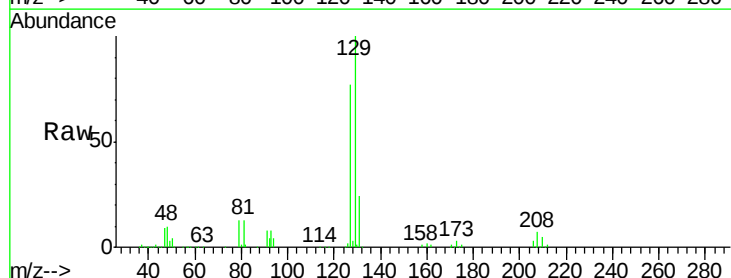
Manual Integrations
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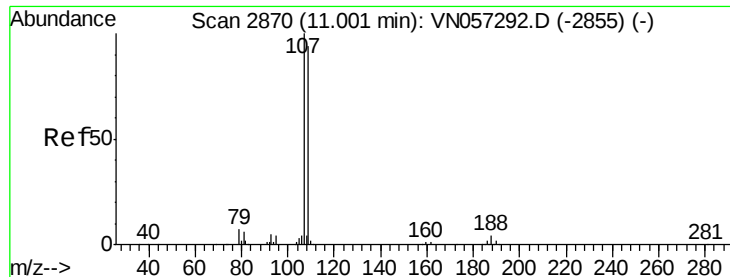
MMDadoda
8/21/2019 9:45:51 AM



#60
Dibromochloromethane
Concen: 51.691 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion: 129 Resp: 437196
Ion Ratio Lower Upper
129 100
127 77.4 39.0 116.9





#61

1,2-Dibromoethane

Concen: 48.150 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 387121

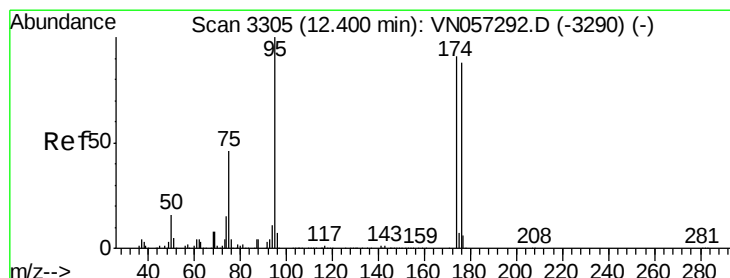
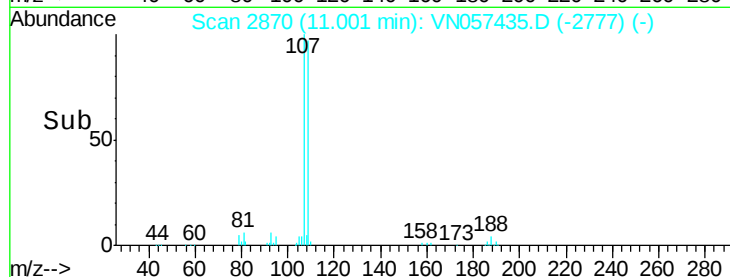
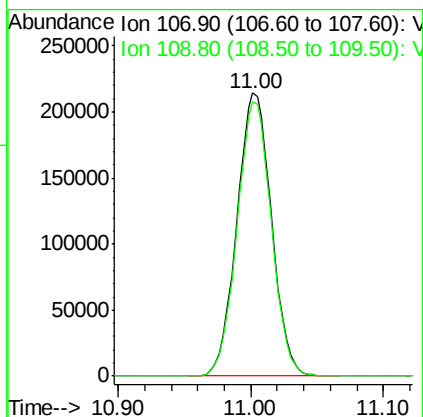
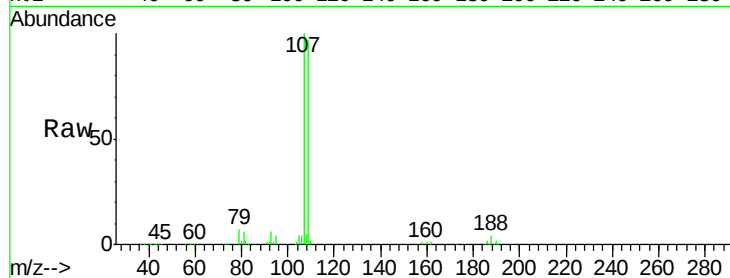
Ion Ratio Lower Upper

107 100

109 96.2 75.7 113.5

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 49.320 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

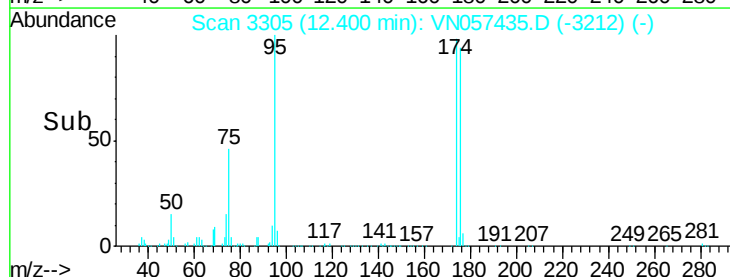
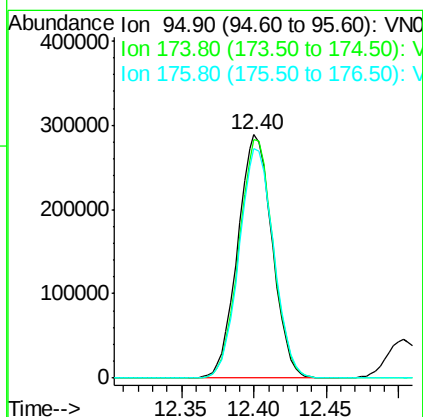
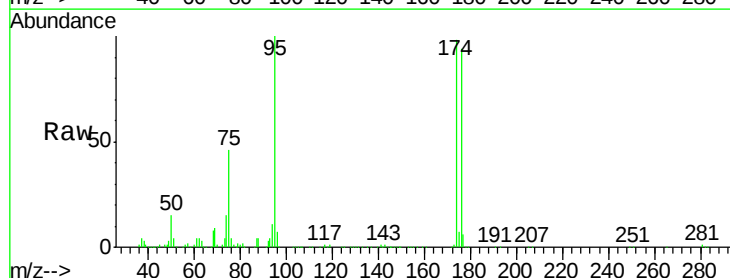
Tgt Ion: 95 Resp: 477171

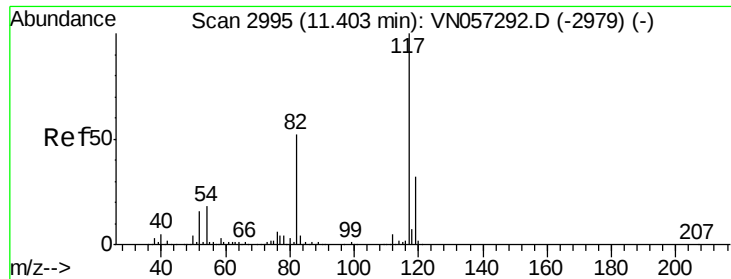
Ion Ratio Lower Upper

95 100

174 97.3 0.0 185.0

176 94.7 0.0 181.0





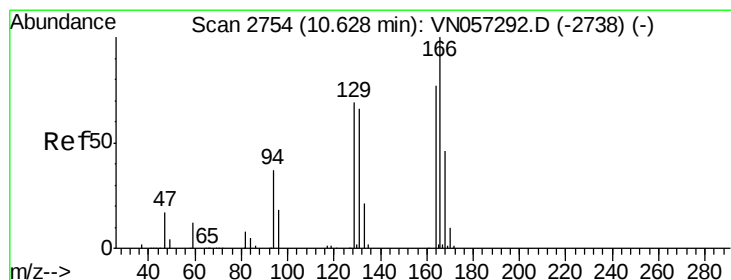
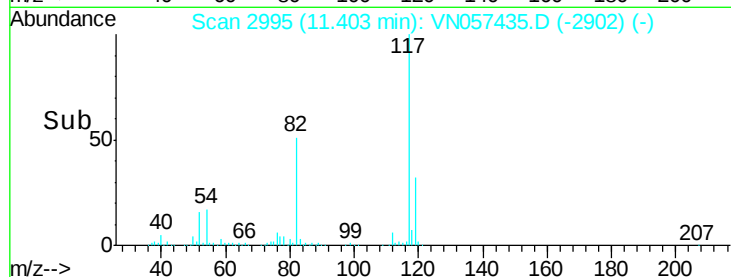
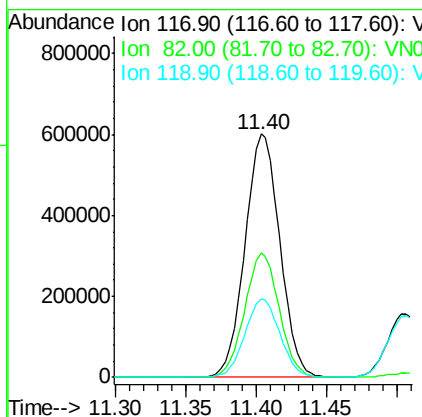
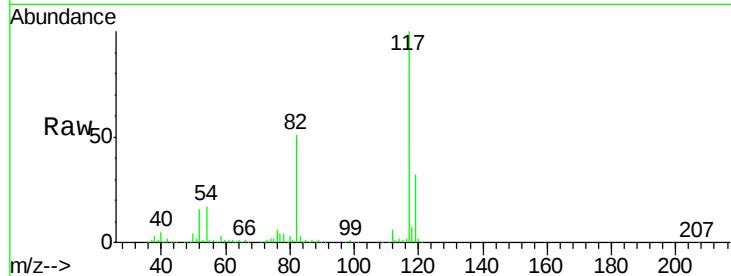
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.2	61.8
119	32.2	25.8	38.8

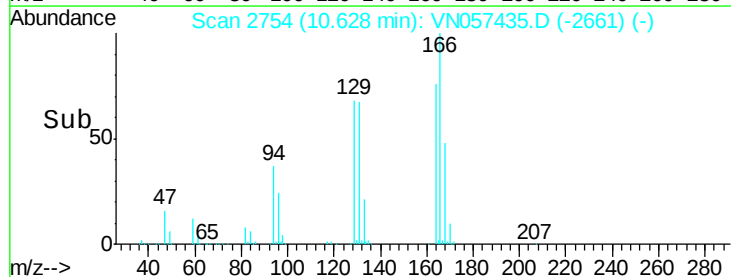
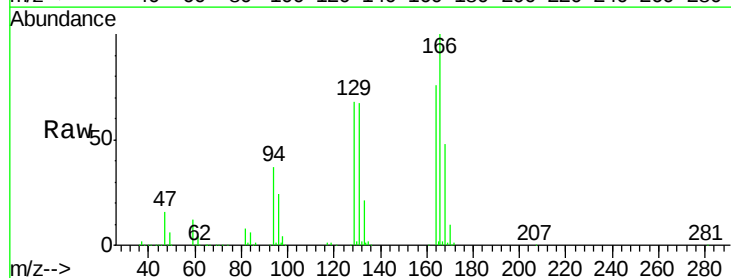
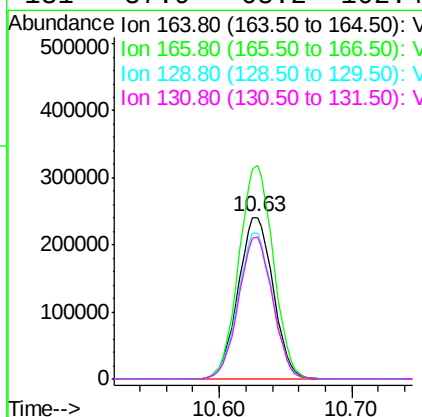
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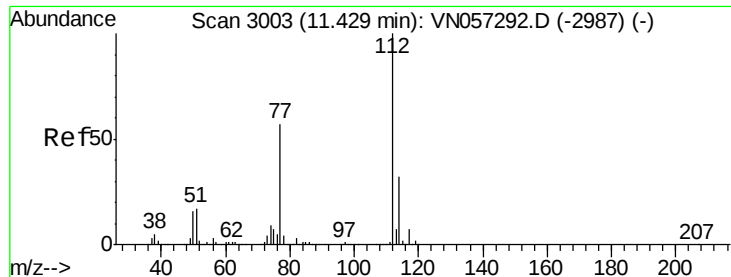
MMDadoda
8/21/2019 9:45:51 AM



#64
Tetrachloroethene
Concen: 48.864 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.1	103.5	155.3
129	89.8	71.2	106.8
131	87.9	68.2	102.4





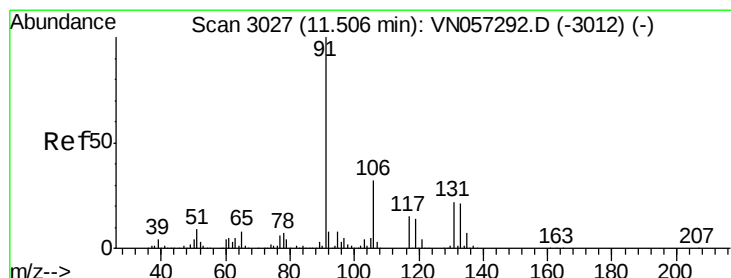
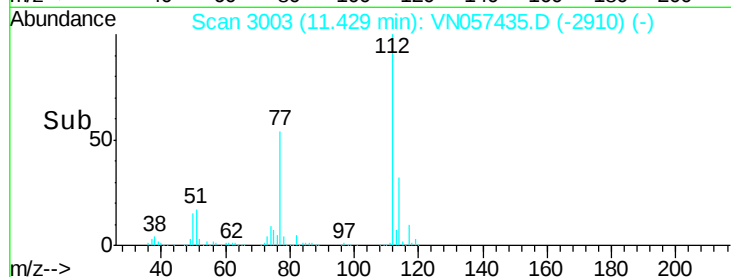
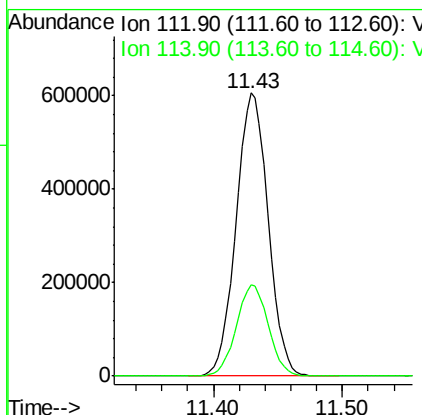
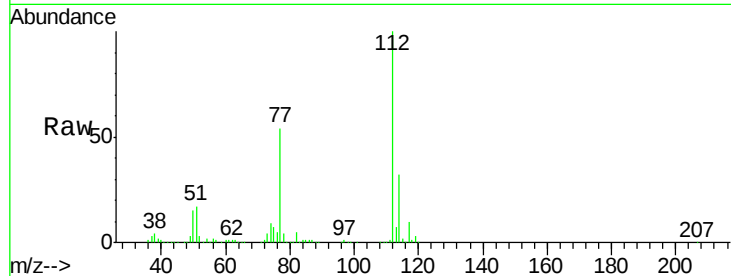
#65
Chlorobenzene
Concen: 49.163 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1045396
Ion Ratio Lower Upper
112 100
114 32.1 25.7 38.5

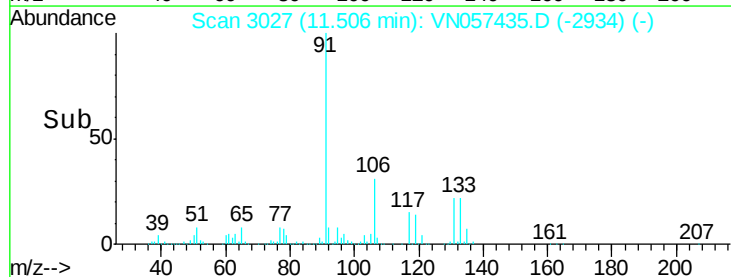
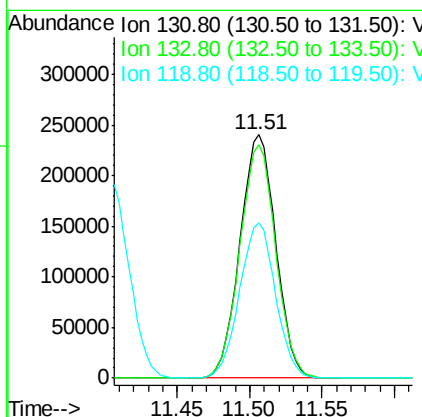
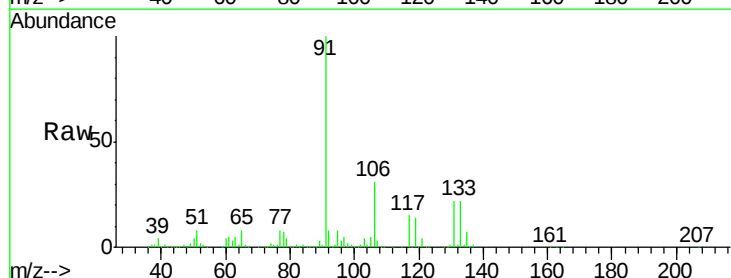
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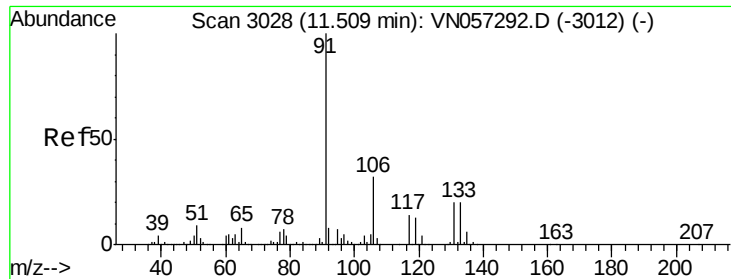
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.749 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion:131 Resp: 413280
Ion Ratio Lower Upper
131 100
133 96.3 47.6 142.8
119 63.8 32.0 96.2





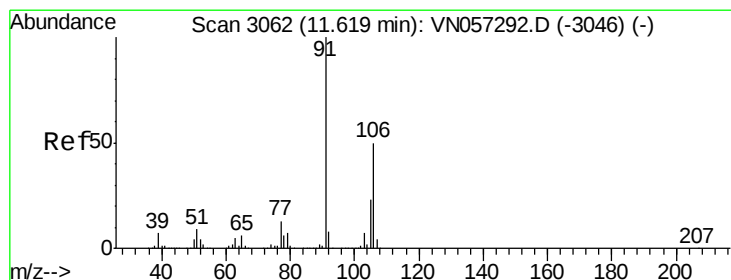
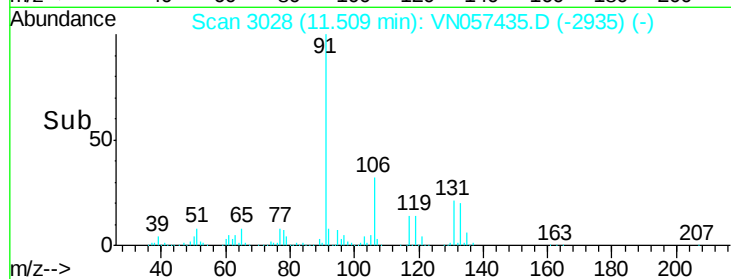
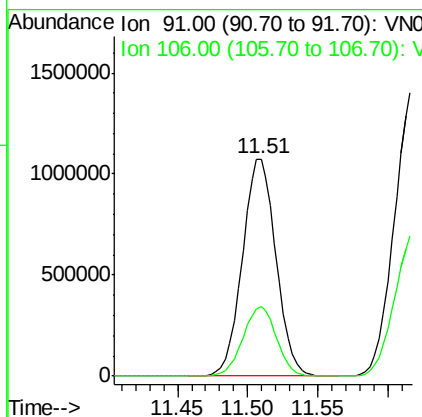
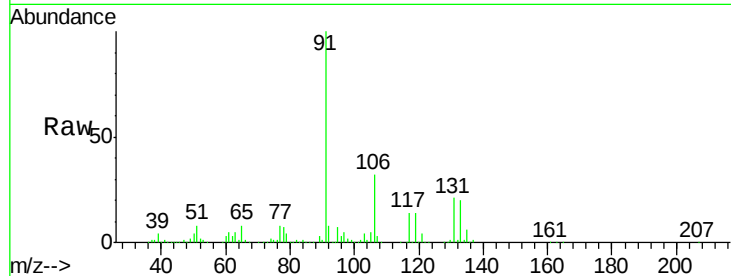
#67
Ethyl Benzene
Concen: 48.052 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1787650
Ion Ratio Lower Upper
91 100
106 32.0 25.5 38.3

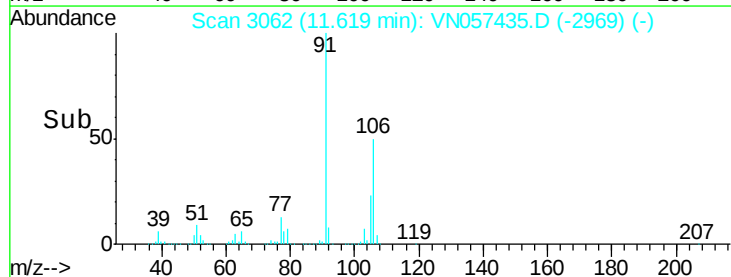
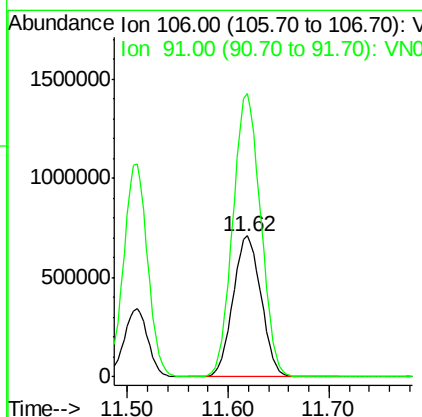
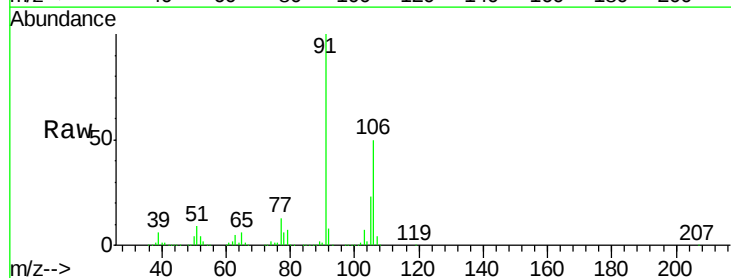
Manual Integrations
APPROVED

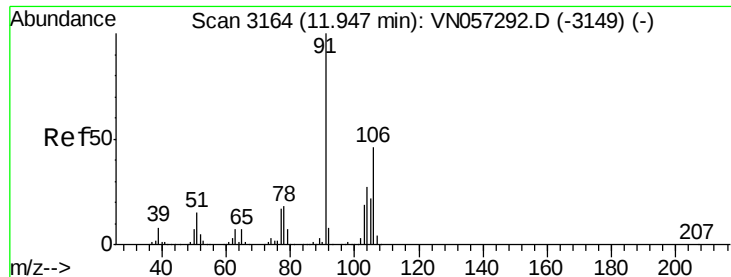
MMDadoda
8/21/2019 9:45:51 AM



#68
m/p-Xylenes
Concen: 100.063 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion: 106 Resp: 1371530
Ion Ratio Lower Upper
106 100
91 199.4 161.5 242.3





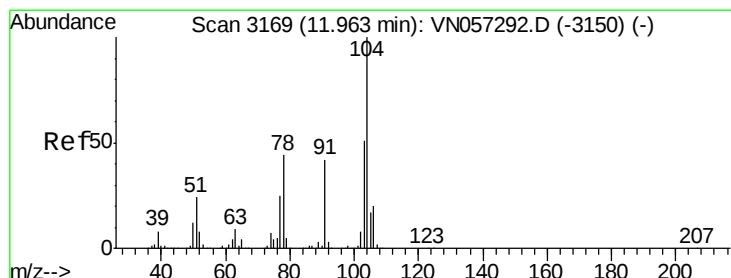
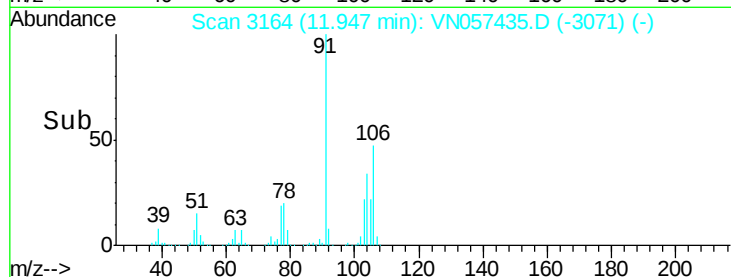
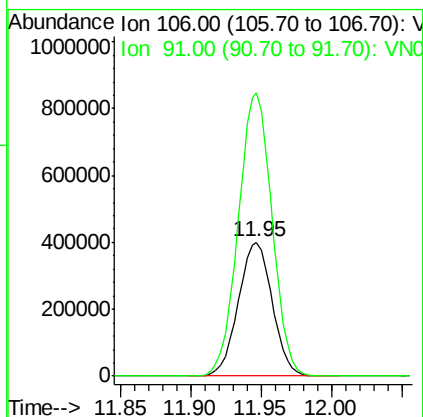
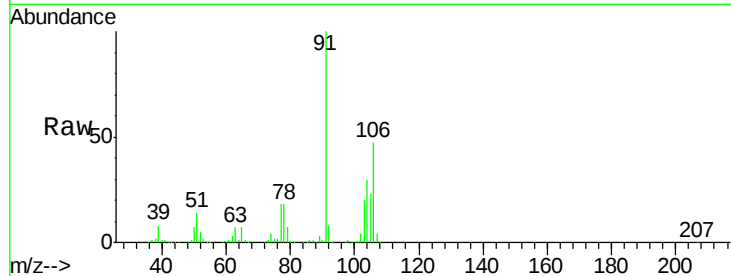
#69
o-Xylene
Concen: 50.087 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.5	106.3	319.0

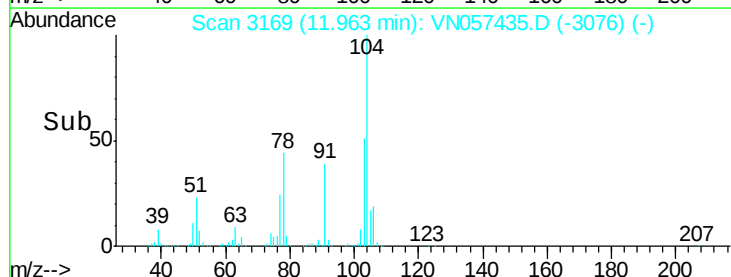
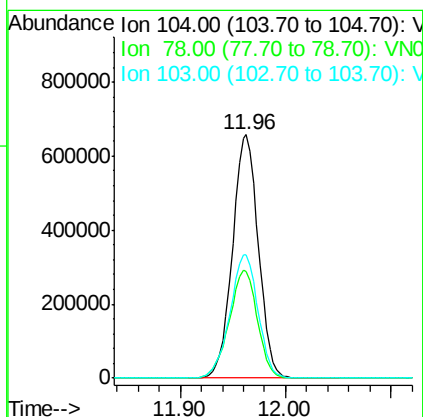
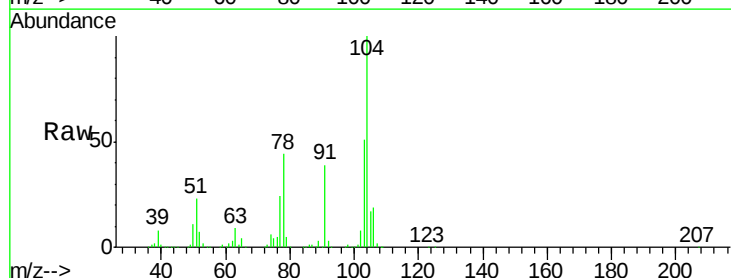
Manual Integrations
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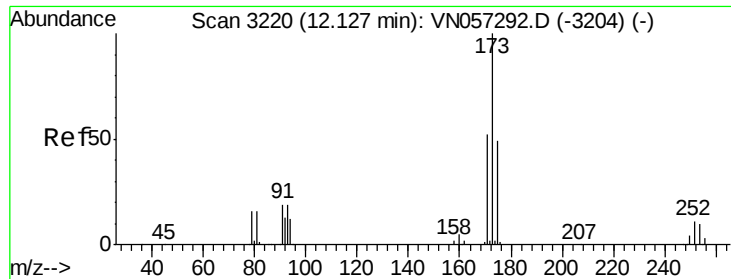
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#70
Styrene
Concen: 51.791 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.4	39.2	58.8
103	55.2	44.6	66.8





#71

Bromoform

Concen: 52.721 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

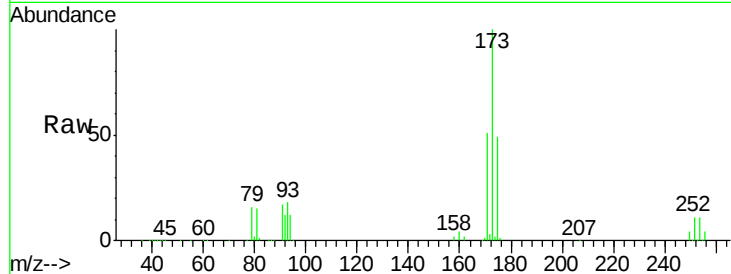
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.2	72.6
254	0.1	0.2	0.2

Manual Integrations
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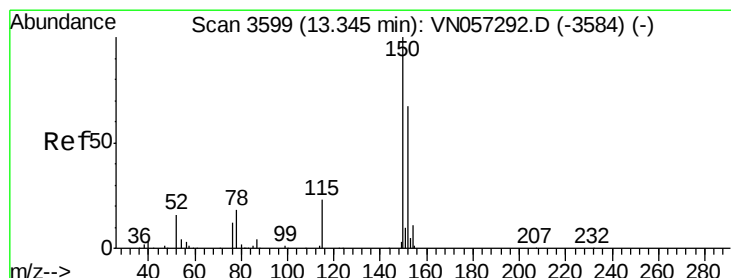
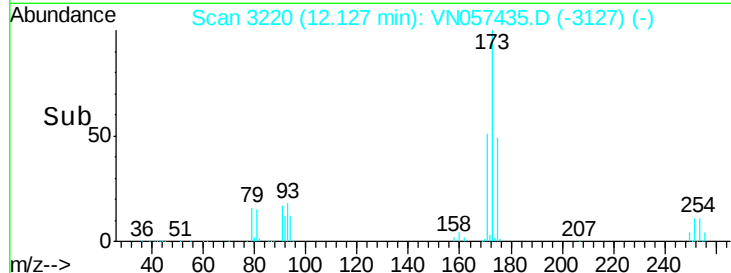
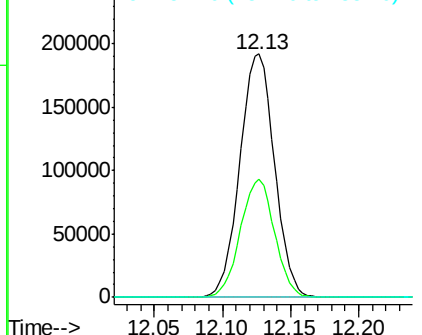


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

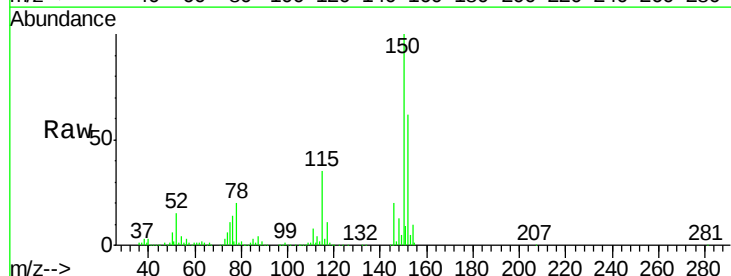
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	27.3	81.9
150	173.9	0.0	344.4

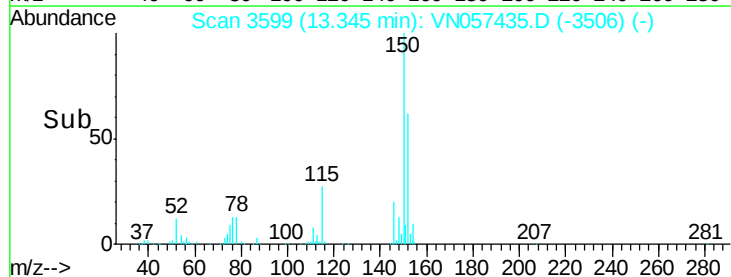
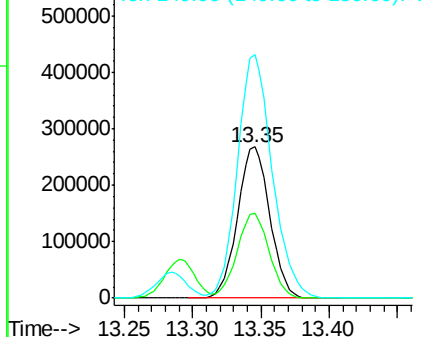


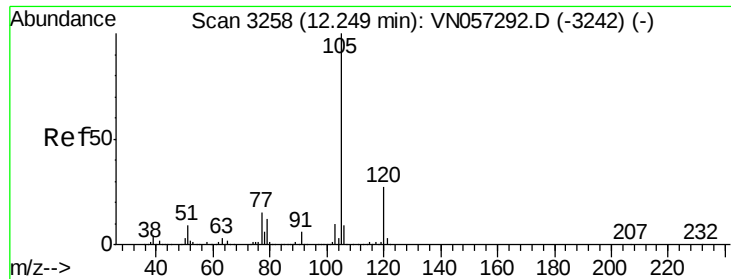
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 51.478 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1794864

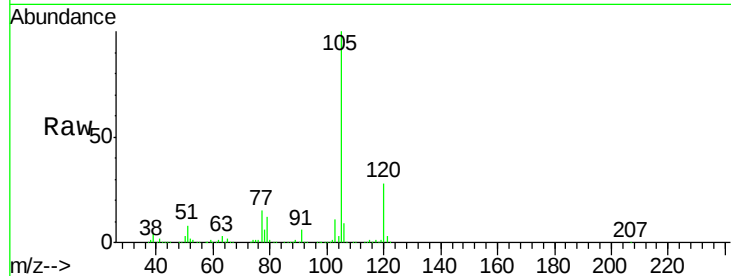
Ion Ratio Lower Upper

105 100

120 27.6 13.2 39.6

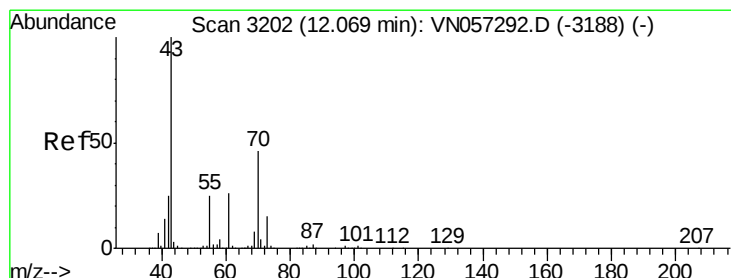
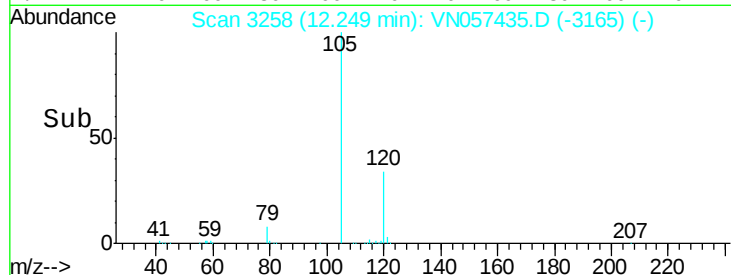
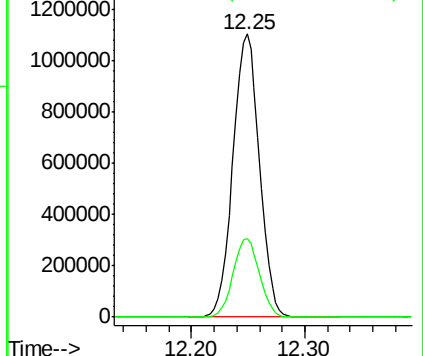
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 39.707 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Tgt Ion: 43 Resp: 506177

Ion Ratio Lower Upper

43 100

70 48.0 36.2 54.2

55 26.5 20.1 30.1

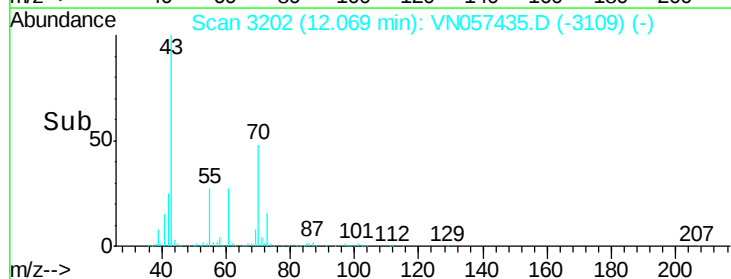
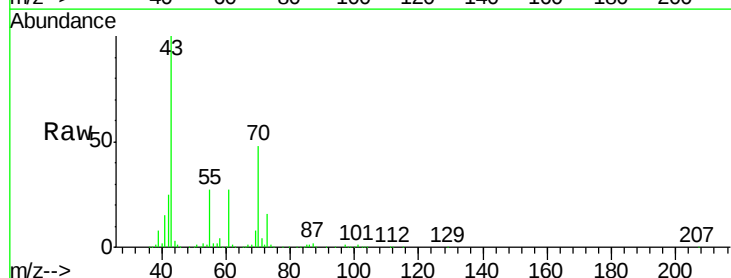
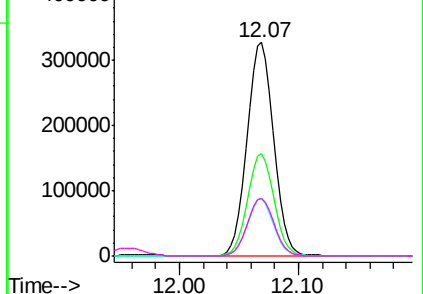
61 27.1 20.9 31.3

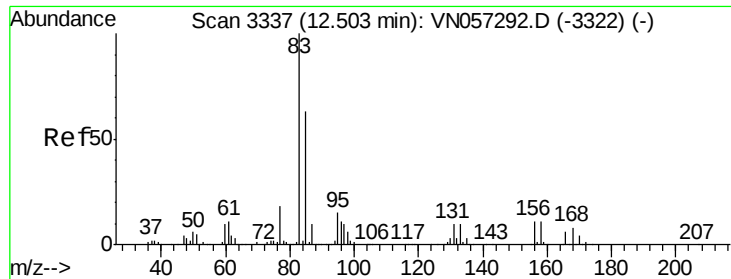
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 49.579 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

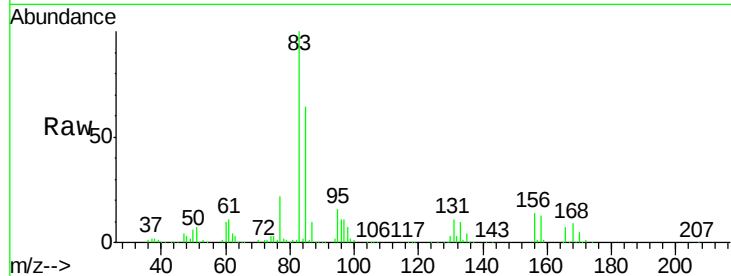
ClientSampleId :

VSTDCCC050EC

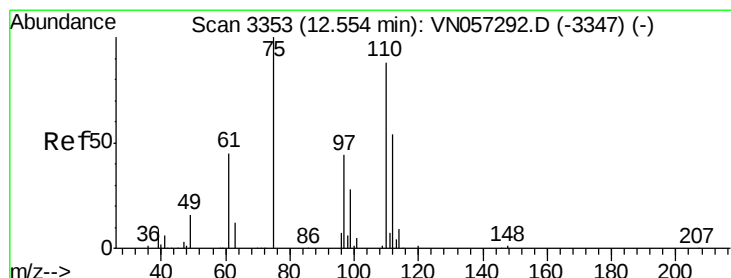
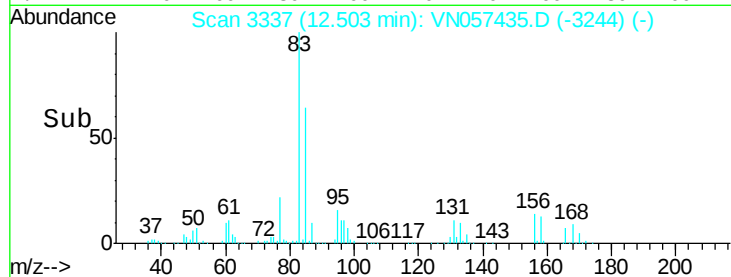
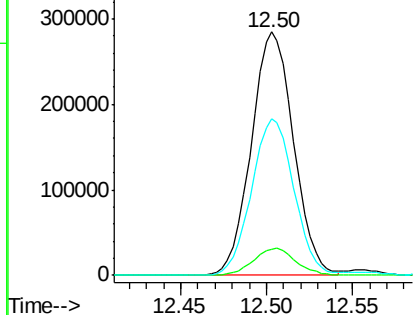
Tot Ion:	83	Resp:	484503
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.4	16.2
85	64.5	32.3	96.9

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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 46.140 ug/l m

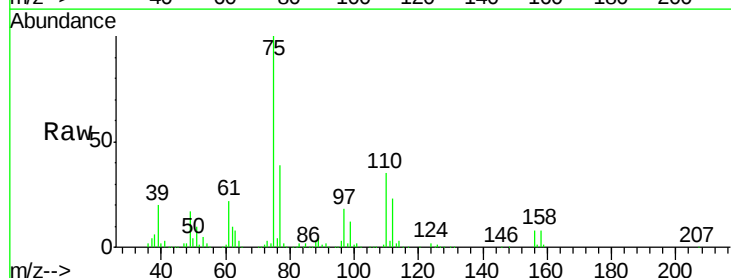
RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

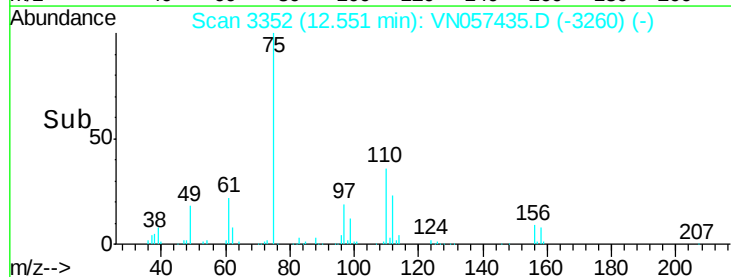
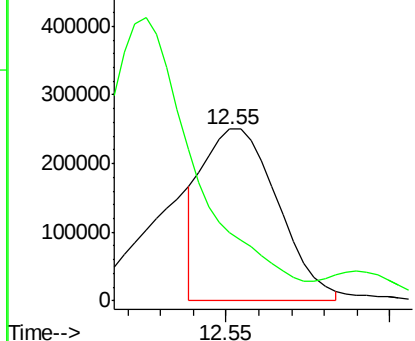
Lab File: VN057435.D

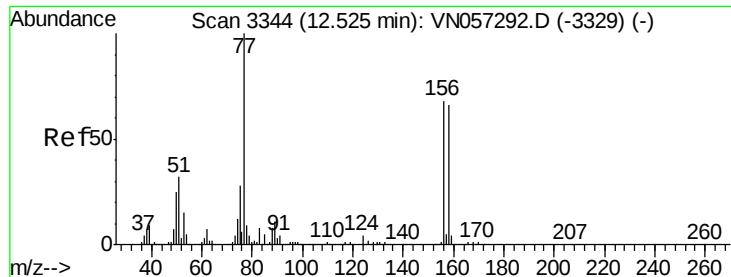
Acq: 20 Aug 2019 6:28

Tgt Ion:	75	Resp:	400381
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 52.678 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 494938

Ion Ratio Lower Upper

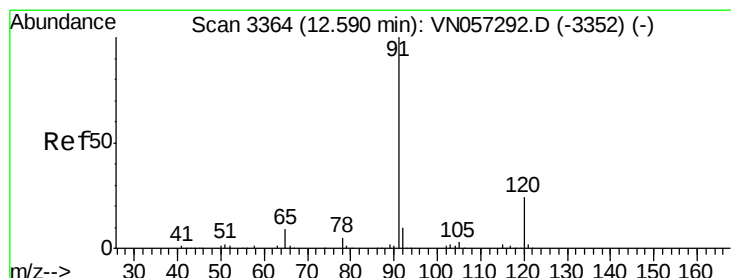
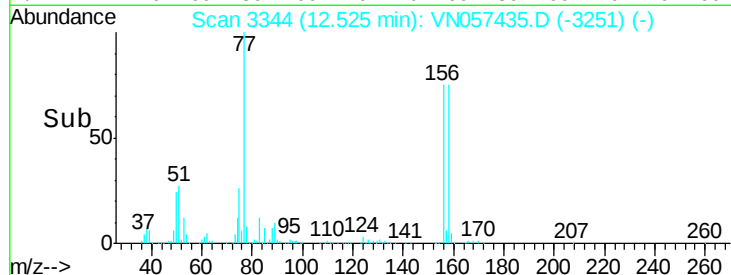
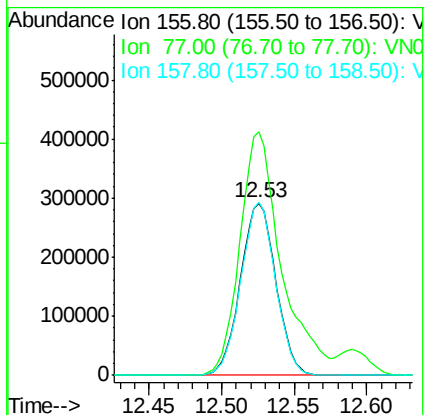
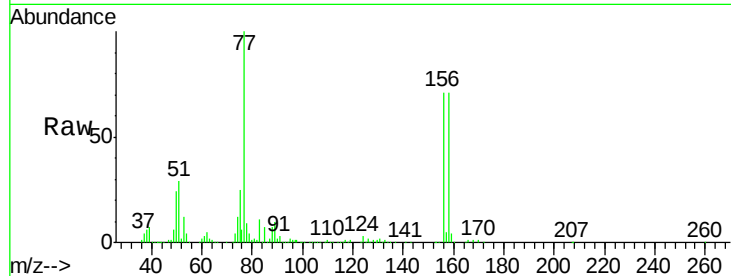
156 100

77 166.5 89.8 269.6

158 98.2 49.3 147.8

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#78

n-propylbenzene

Concen: 44.328 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057435.D

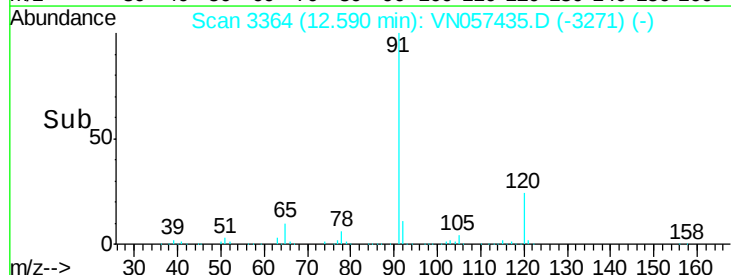
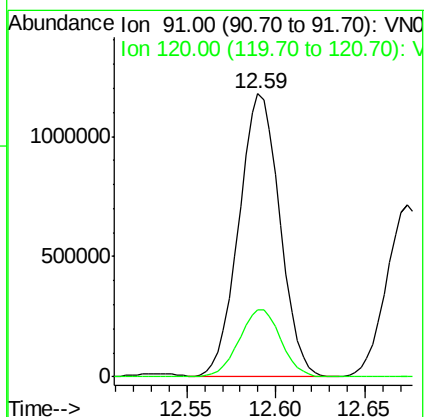
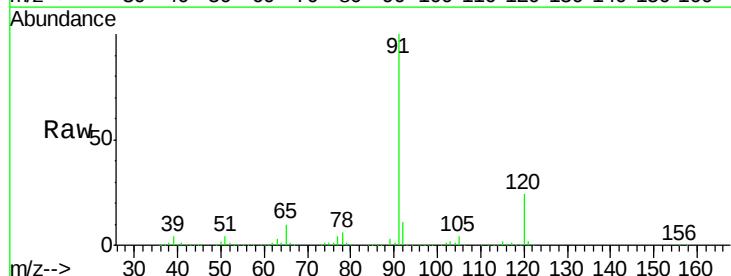
Acq: 20 Aug 2019 6:28

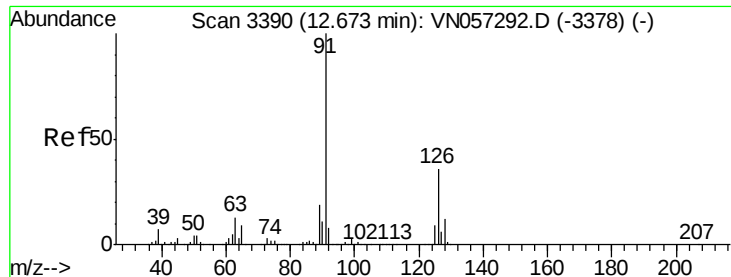
Tgt Ion: 91 Resp: 1875262

Ion Ratio Lower Upper

91 100

120 24.2 11.9 35.7





#79

2-Chlorotoluene

Concen: 50.787 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1173750

Ion Ratio Lower Upper

91 100

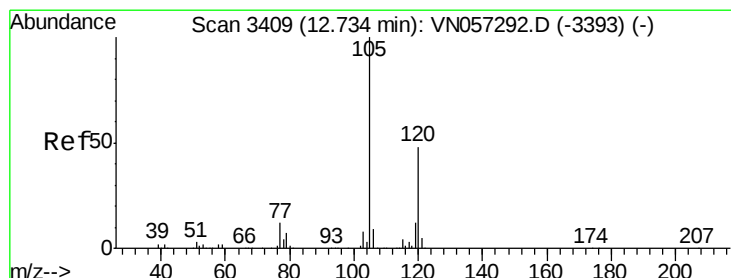
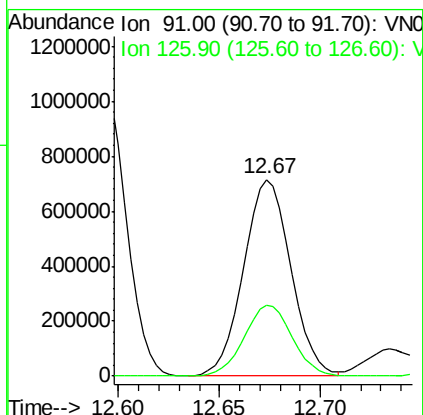
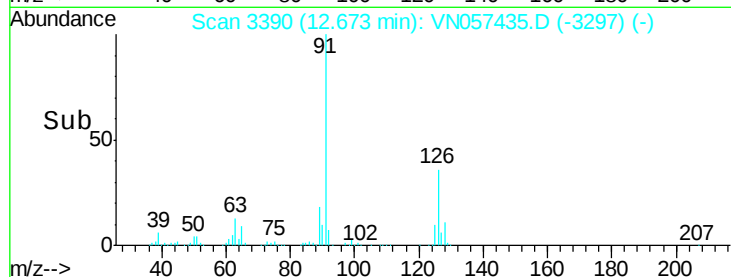
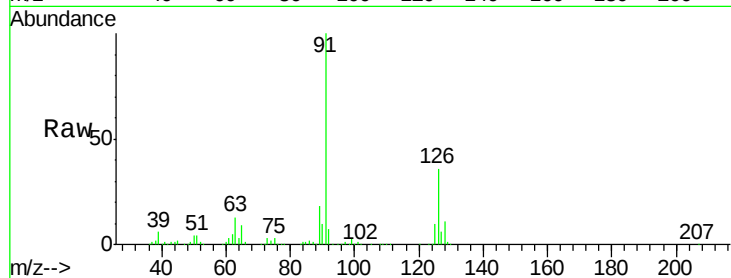
126 36.6 18.1 54.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 50.850 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057435.D

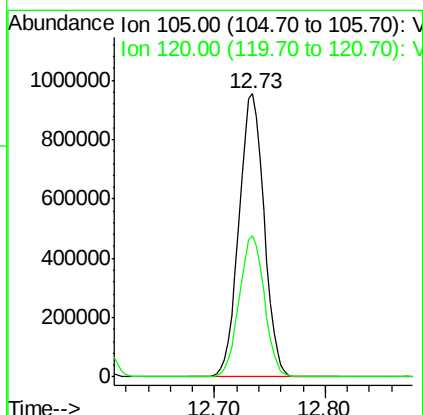
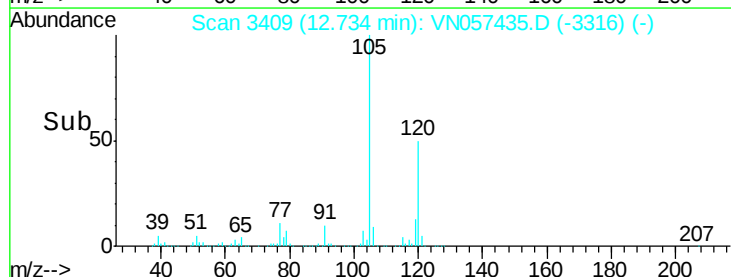
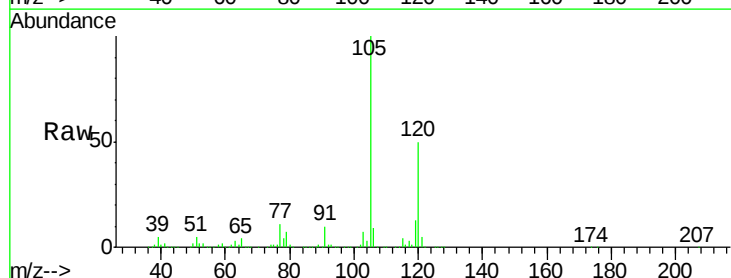
Acq: 20 Aug 2019 6:28

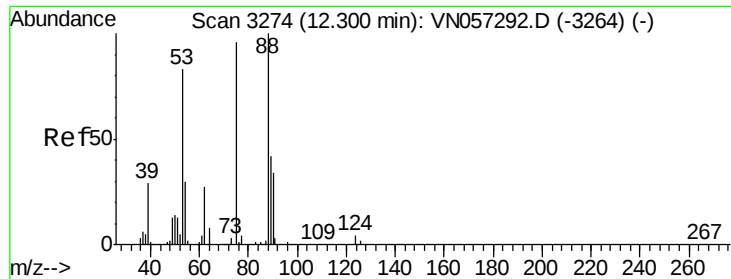
Tgt Ion: 105 Resp: 1503989

Ion Ratio Lower Upper

105 100

120 50.0 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 38.123 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

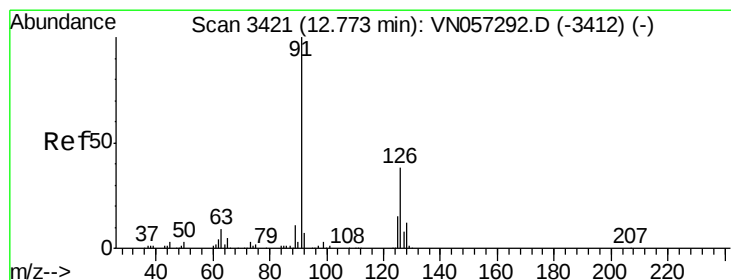
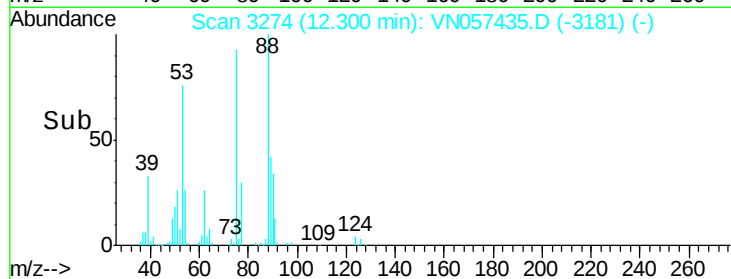
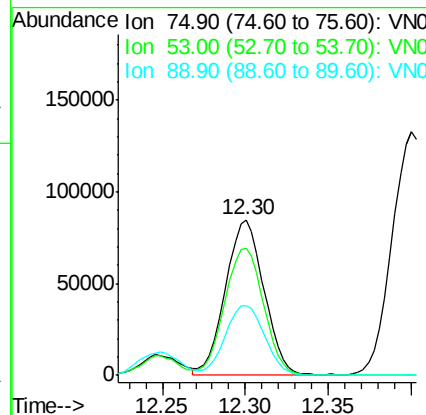
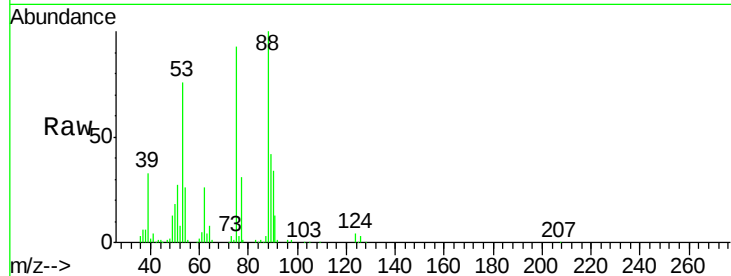
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	137347
Ion Ratio	Lower	Upper	
75	100		
53	82.9	67.9	101.9
89	46.0	36.2	54.4

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#82

4-Chlorotoluene

Concen: 44.809 ug/l

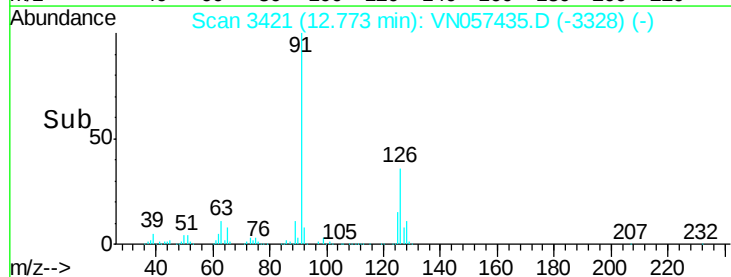
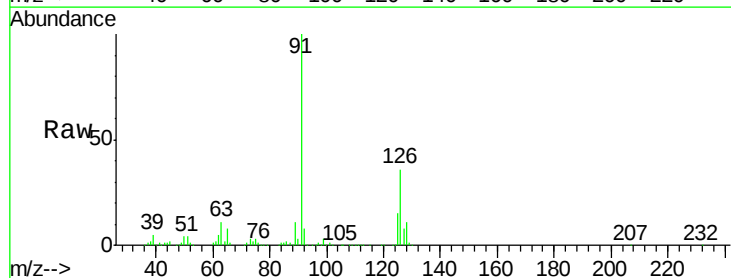
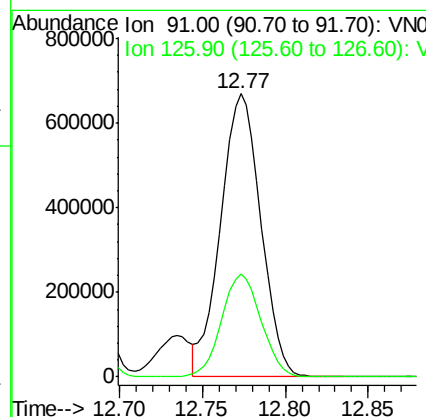
RT: 12.77 min Scan# 3421

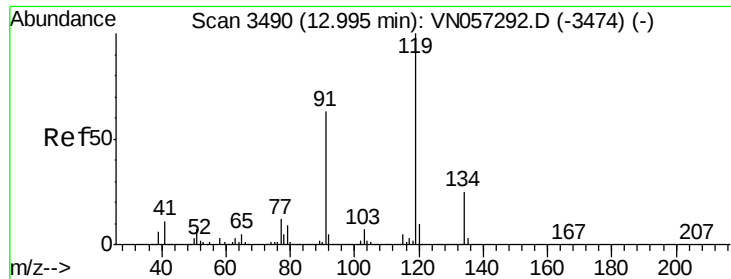
Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Tgt Ion:	91	Resp:	1123298
Ion Ratio	Lower	Upper	
91	100		
126	35.7	17.3	51.7





#83

tert-Butylbenzene

Concen: 52.498 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:119 Resp: 1360261

Ion Ratio Lower Upper

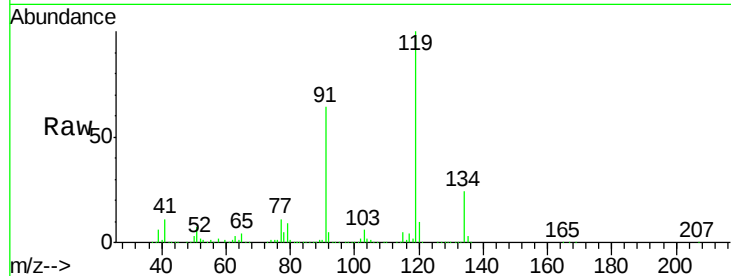
119 100

91 62.1 31.3 93.8

134 25.9 13.1 39.1

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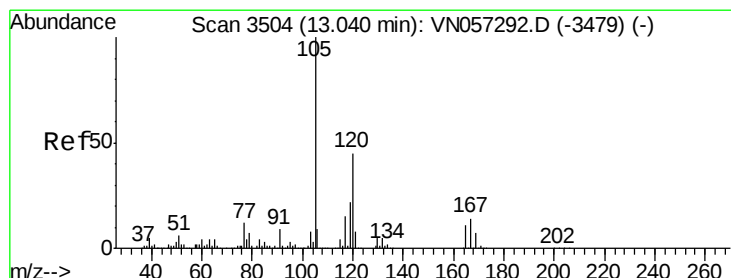
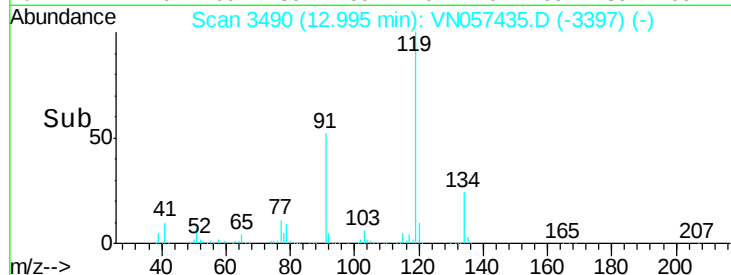
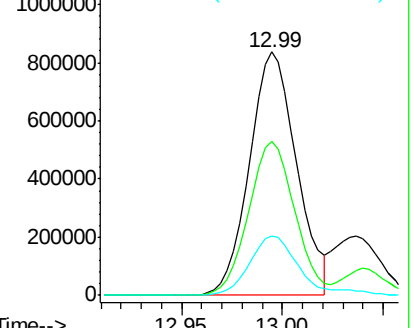
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 45.427 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN057435.D

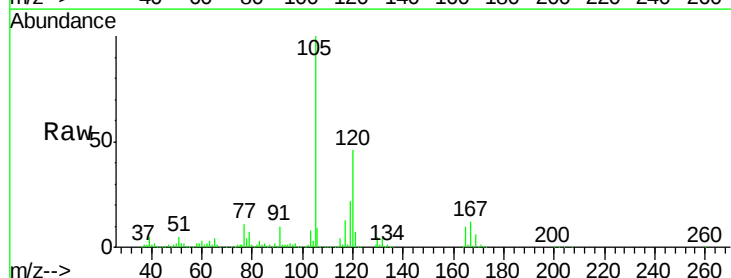
Acq: 20 Aug 2019 6:28

Tgt Ion:105 Resp: 1437391

Ion Ratio Lower Upper

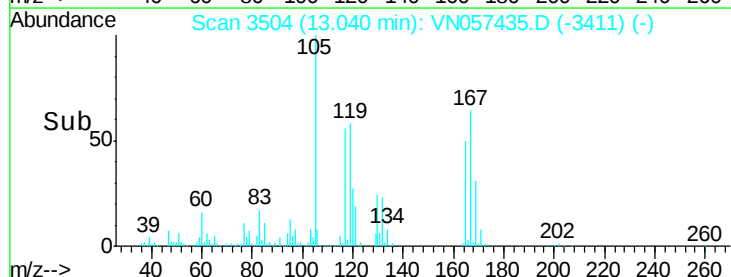
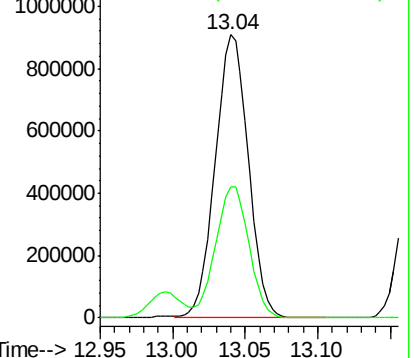
105 100

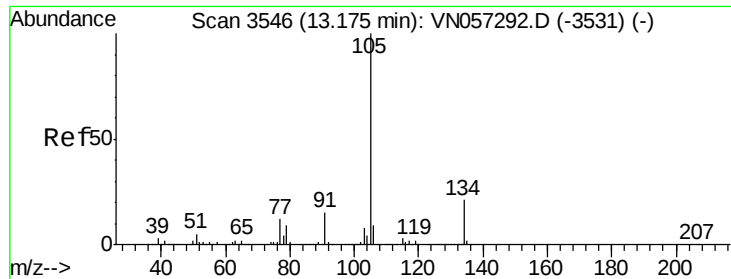
120 46.6 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 49.665 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1650914

Ion Ratio Lower Upper

105 100

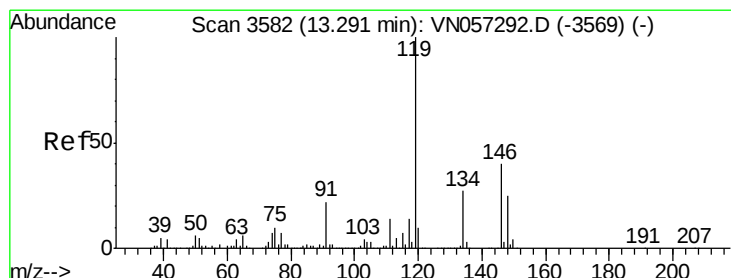
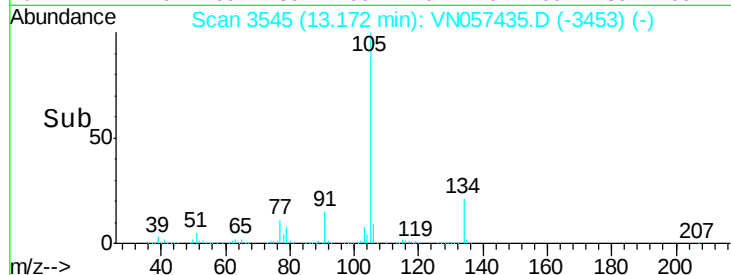
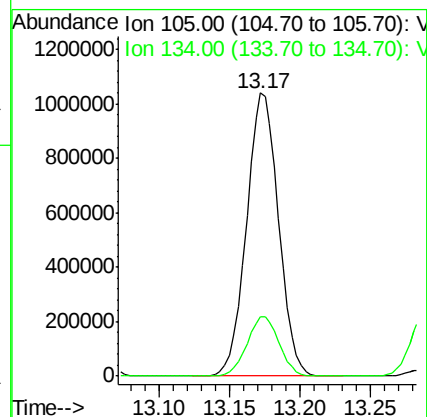
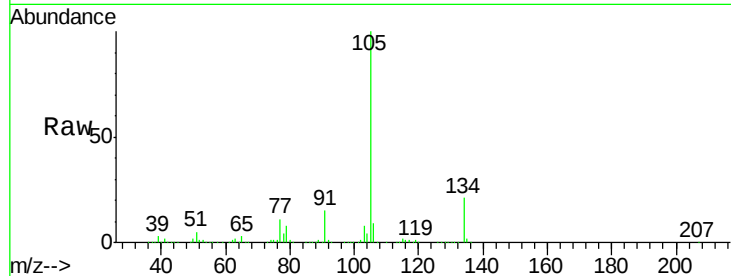
134 21.1 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 45.530 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

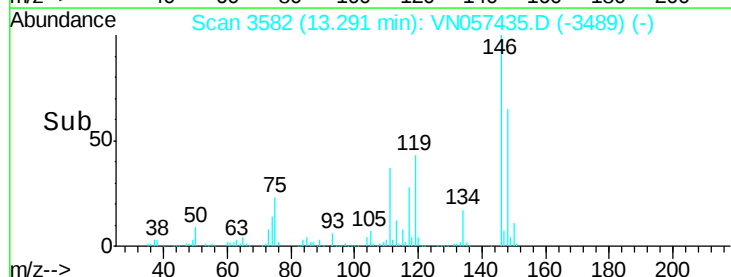
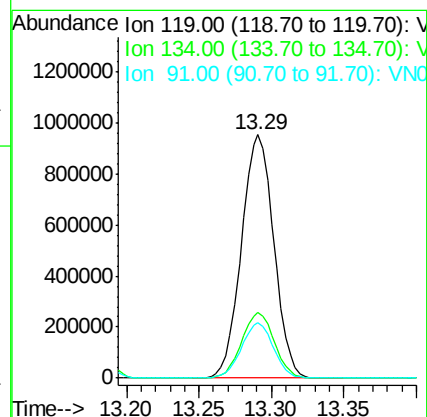
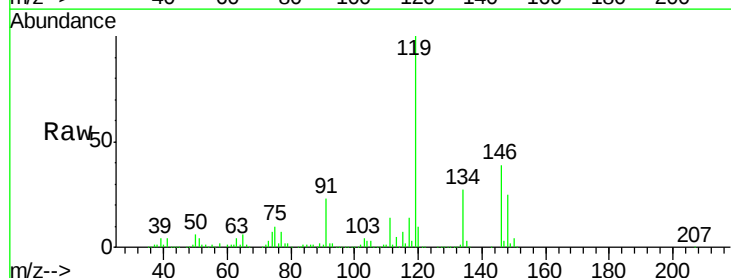
Tgt Ion:119 Resp: 1474949

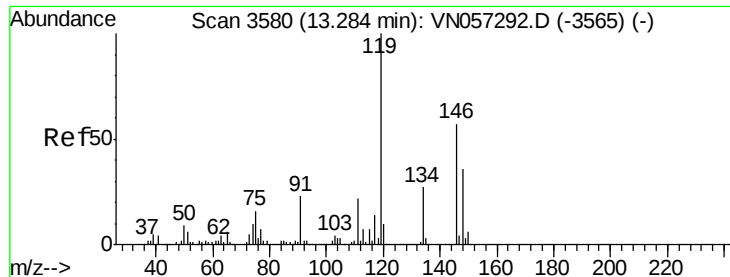
Ion Ratio Lower Upper

119 100

134 27.2 13.4 40.2

91 22.4 11.2 33.5





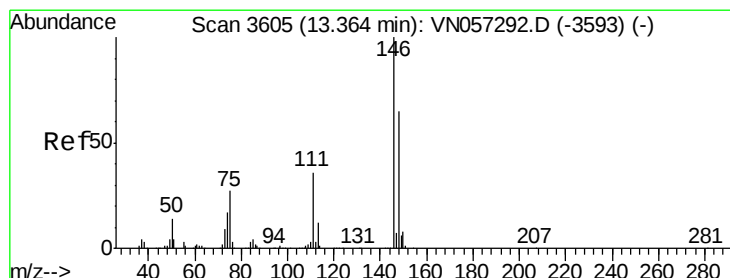
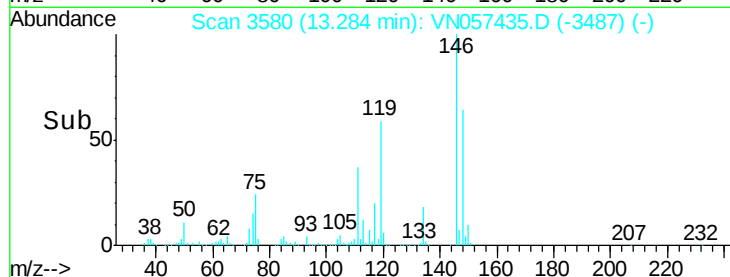
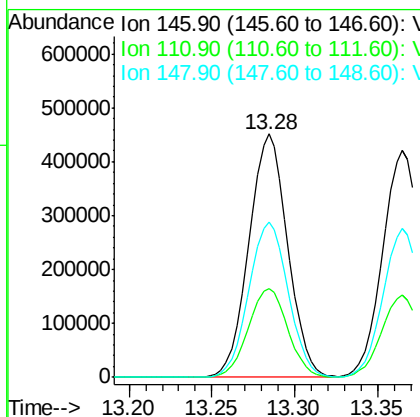
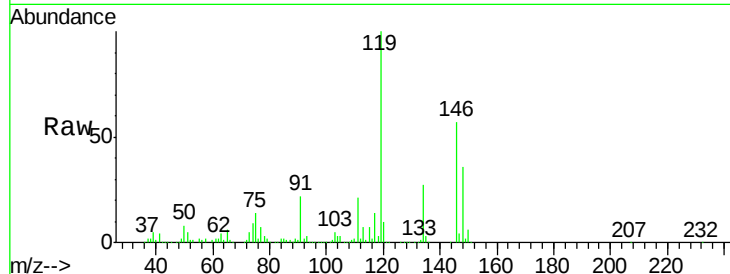
#87
 1,3-Dichlorobenzene
 Concen: 47.691 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.7	56.1
148	65.0	31.7	95.1

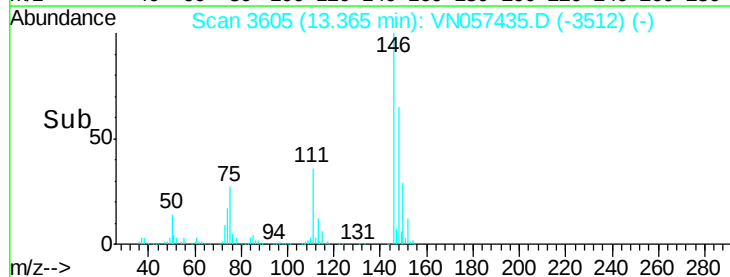
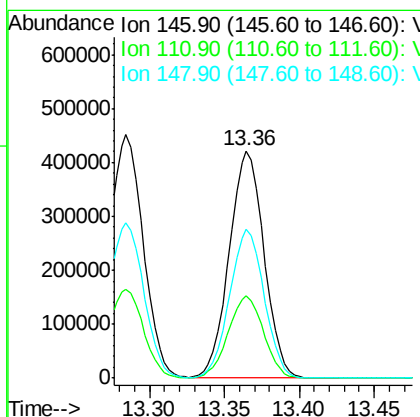
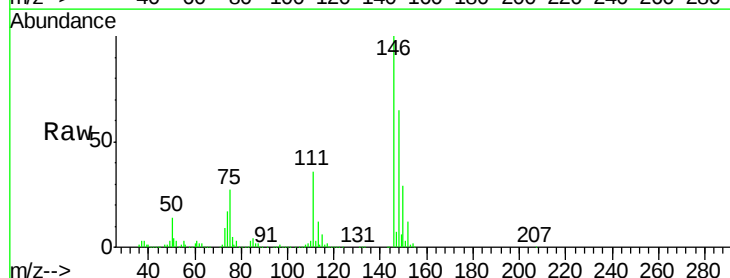
Manual Integrations
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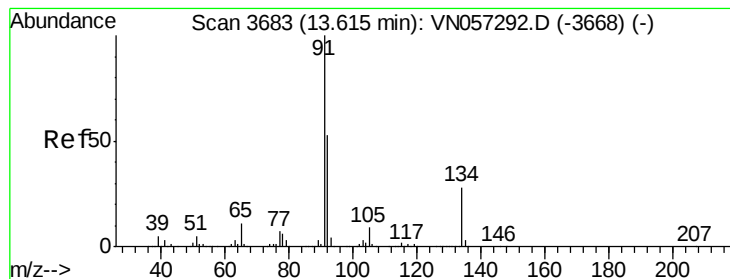
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#88
 1,4-Dichlorobenzene
 Concen: 46.691 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.4	55.4
148	65.2	32.5	97.4





#89

n-Butylbenzene

Concen: 47.413 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057435.D

Acq: 20 Aug 2019 6:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1094987

Ion Ratio Lower Upper

91 100

92 52.4 26.2 78.6

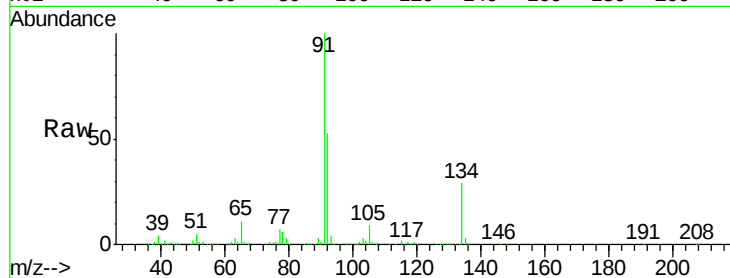
134 29.1 13.9 41.7

Manual Integrations

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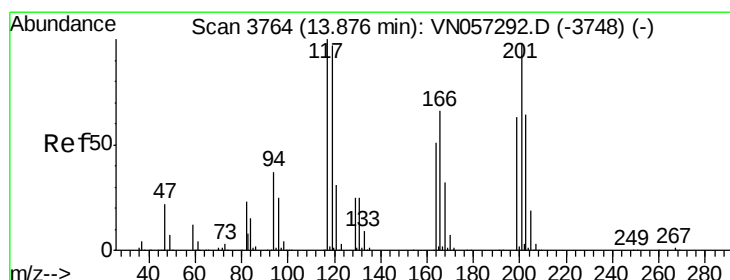
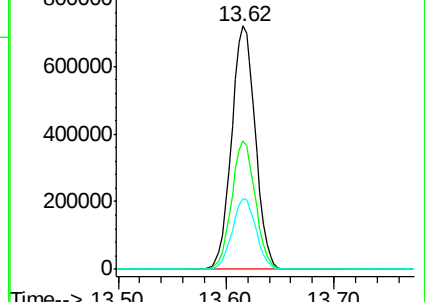
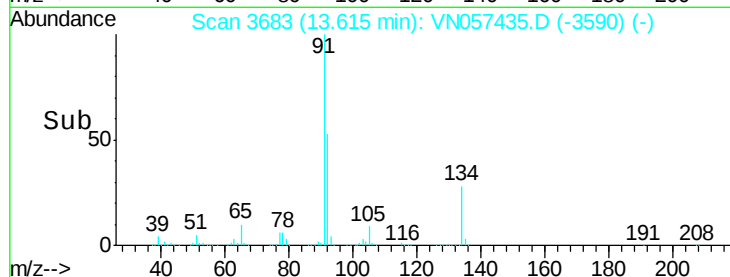


Abundance Ion 91.00 (90.70 to 91.70): VN057292.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN057292.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN057292.D (-3668) (-)

Time--> 13.50 13.60 13.70



#90

Hexachloroethane

Concen: 52.421 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN057435.D

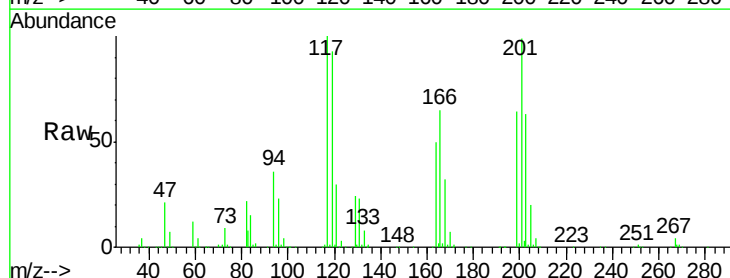
Acq: 20 Aug 2019 6:28

Tgt Ion: 117 Resp: 288205

Ion Ratio Lower Upper

117 100

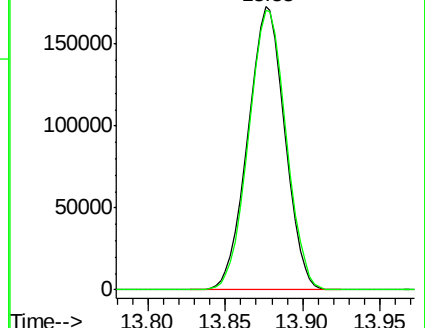
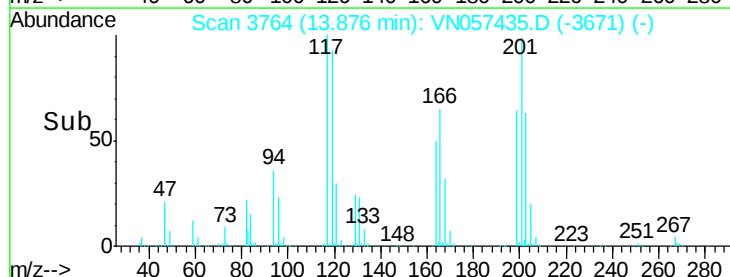
201 100.0 48.4 145.0

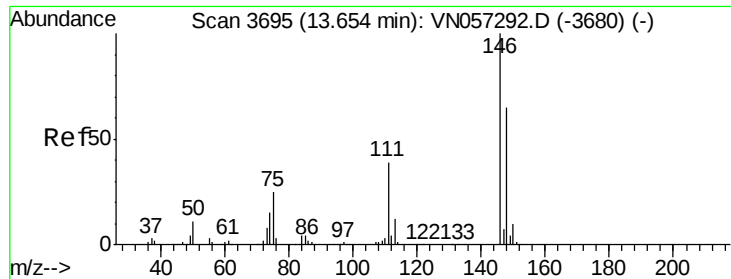


Abundance Ion 116.80 (116.50 to 117.50): VN057292.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN057292.D (-3748) (-)

Time--> 13.80 13.85 13.90 13.95





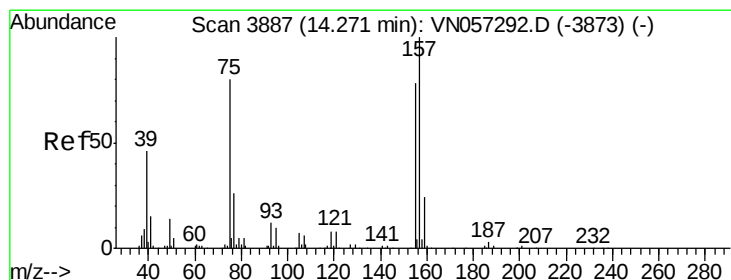
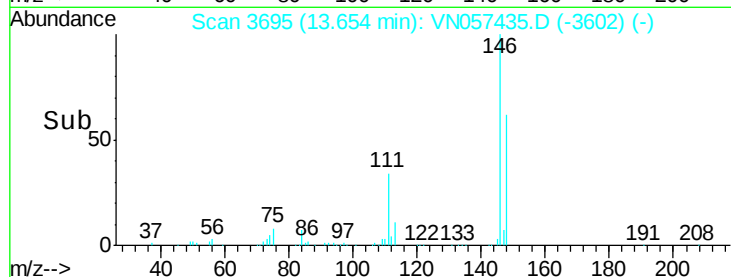
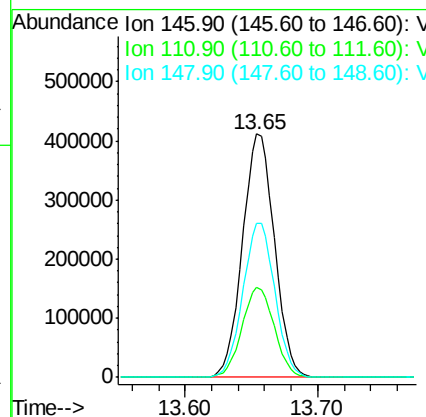
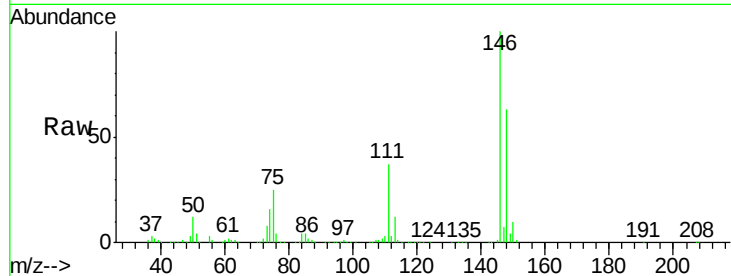
#91
 1,2-Dichlorobenzene
 Concen: 48.066 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	19.7	59.1
148	63.3	32.0	96.0

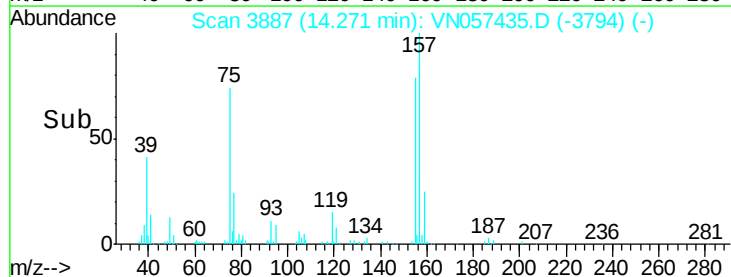
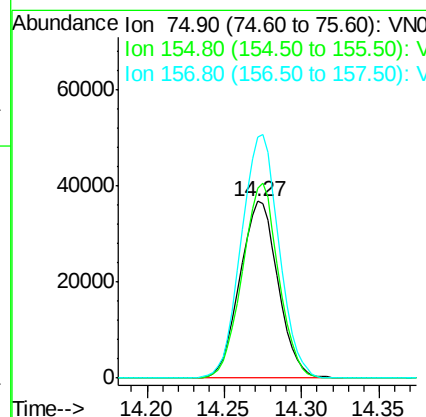
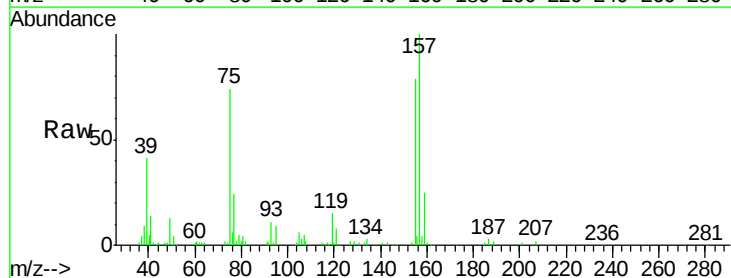
Manual Integrations
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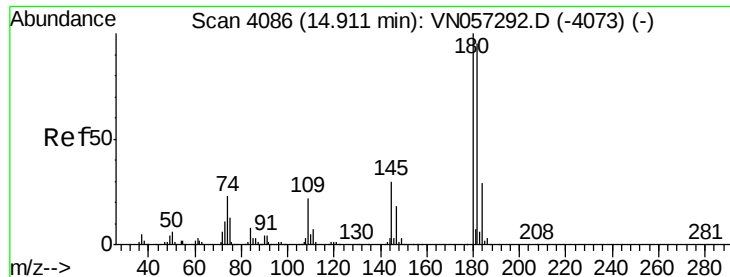
MMDadoda
 8/21/2019 9:45:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 40.389 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	104.5	49.6	148.8
157	136.2	63.7	191.1





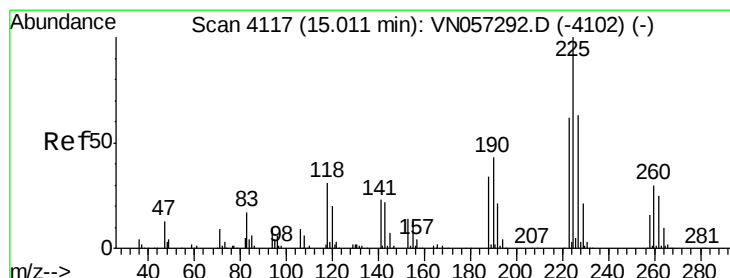
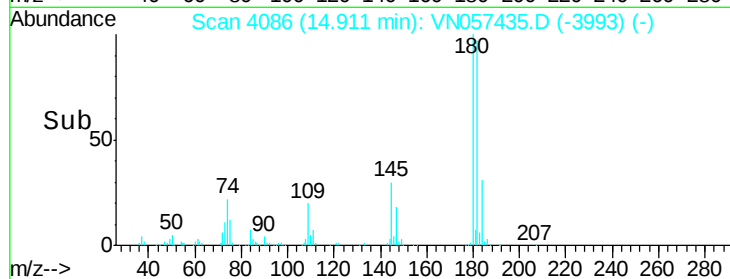
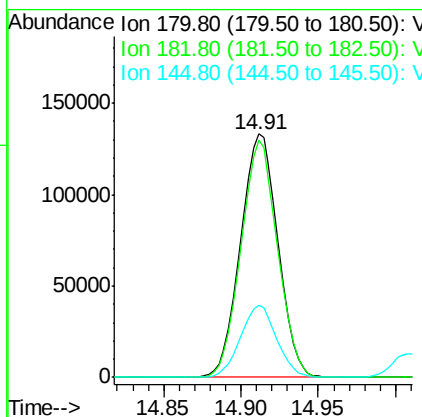
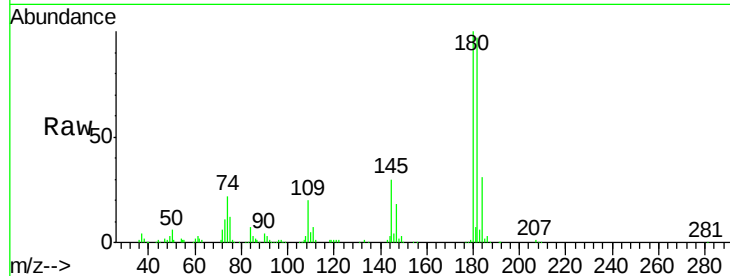
#93
 1,2,4-Trichlorobenzene
 Concen: 40.178 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	223782		
182	94.9	48.0	144.2	
145	28.6	14.5	43.6	

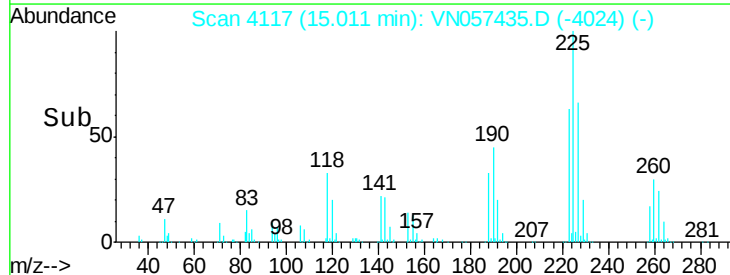
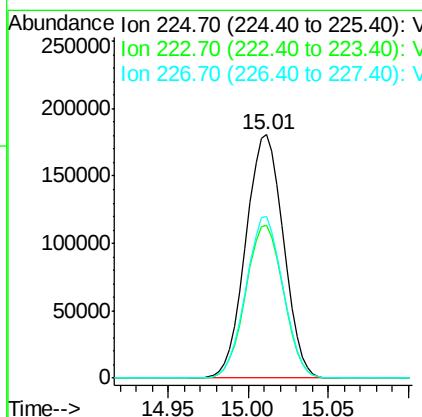
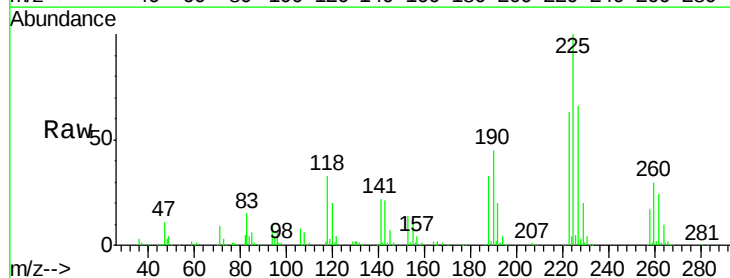
Manual Integrations
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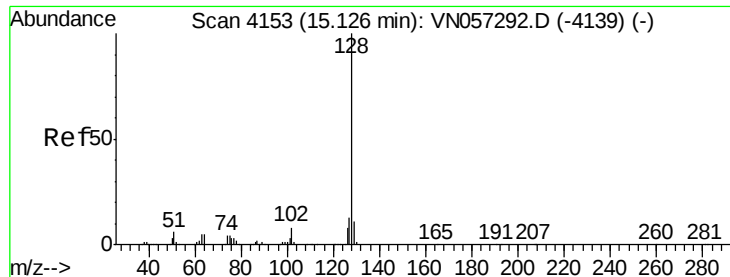
MMDadoda
 8/21/2019 9:45:51 AM



#94
 Hexachlorobutadiene
 Concen: 53.129 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057435.D
 Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	290716		
223	63.2	30.7	92.1	
227	65.5	30.9	92.7	





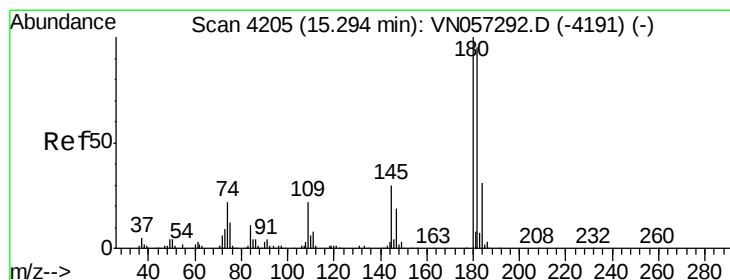
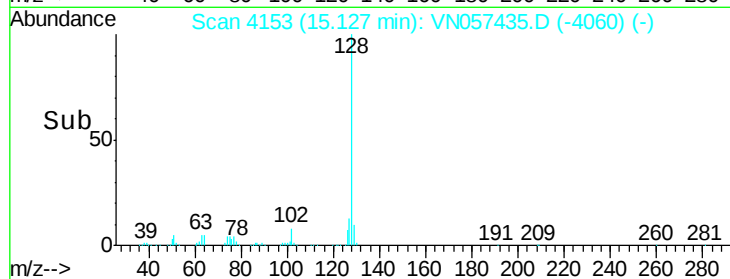
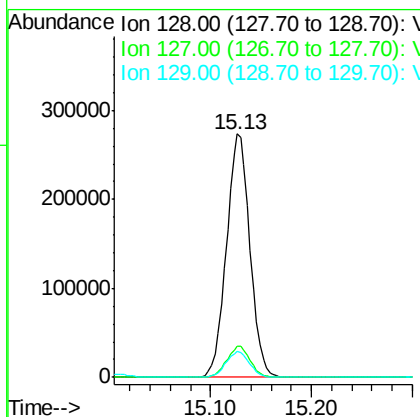
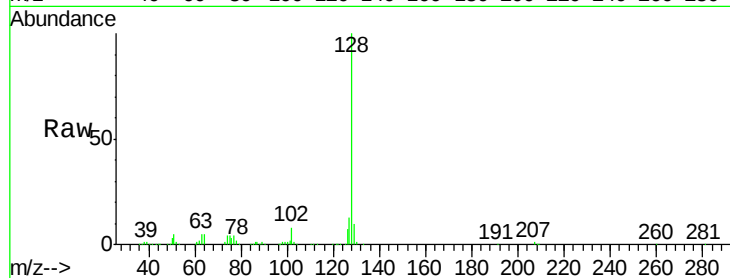
#95
Naphthalene
Concen: 50.400 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.7	8.8	13.2

Manual Integrations
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8/21/2019 9:45:51 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.767 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057435.D
Acq: 20 Aug 2019 6:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.9	143.6
145	29.8	15.1	45.3

