

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081319\
 Data File : VN057246.D
 Acq On : 13 Aug 2019 13:28
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:58:22 AM

Quant Time: Aug 14 11:12:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081319W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 05:31:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1209892	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1755391	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1610844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	767453	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	1794797	135.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	270.56%	
35) Dibromofluoromethane	7.58	113	1646401	148.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	297.78%	
50) Toluene-d8	10.09	98	6252577	147.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	294.12%	
62) 4-Bromofluorobenzene	12.40	95	2279958	159.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	319.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	1449634	128.686	ug/l	99
3) Chloromethane	2.05	50	1716790	115.600	ug/l	99
4) Vinyl Chloride	2.18	62	1706047	119.526	ug/l	98
5) Bromomethane	2.52	94	1024953	118.823	ug/l	99
6) Chloroethane	2.67	64	1120396m	131.788	ug/l	
7) Trichlorofluoromethane	3.01	101	2578228	136.832	ug/l	99
8) Diethyl Ether	3.40	74	981318	135.917	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	1543193	136.844	ug/l	100
10) Methyl Iodide	3.94	142	2595235	166.644	ug/l	99
11) Tert butyl alcohol	4.77	59	1258285	593.588	ug/l #	82
12) 1,1-Dichloroethene	3.73	96	1561006	138.336	ug/l	98
13) Acrolein	3.60	56	877421	968.899	ug/l	99
14) Allyl chloride	4.31	41	2445317	127.732	ug/l	99
15) Acrylonitrile	4.97	53	3563194	578.042	ug/l	99
16) Acetone	3.81	43	2994114	508.700	ug/l	98
17) Carbon Disulfide	4.05	76	4402209	146.760	ug/l	98
18) Methyl Acetate	4.31	43	1607568	99.774	ug/l	99
19) Methyl tert-butyl Ether	5.03	73	4737782	133.059	ug/l	100
20) Methylene Chloride	4.54	84	1732644	130.220	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	1661734	139.589	ug/l	99
22) Diisopropyl ether	5.94	45	4620101	122.994	ug/l	98
23) Vinyl Acetate	5.88	43	19160820	631.993	ug/l	100
24) 1,1-Dichloroethane	5.84	63	2908075	131.443	ug/l	99
25) 2-Butanone	6.82	43	4522295	529.194	ug/l	100
26) 2,2-Dichloropropane	6.82	77	2481468	152.050	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	1914270	139.635	ug/l	99
28) Bromochloromethane	7.19	49	1248245	122.209	ug/l	99
29) Tetrahydrofuran	7.20	42	2840658	511.883	ug/l	99
30) Chloroform	7.36	83	2969687	133.146	ug/l	97
31) Cyclohexane	7.64	56	2512875	121.870	ug/l	98
32) 1,1,1-Trichloroethane	7.56	97	2685377	150.623	ug/l	99
36) 1,1-Dichloropropene	7.79	75	2309968	142.589	ug/l	99
37) Ethyl Acetate	6.91	43	1814456	118.508	ug/l	99
38) Carbon Tetrachloride	7.77	117	2460767	159.109	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	2769703	139.412	ug/l	100
40) Benzene	8.03	78	6886003	139.369	ug/l	99
41) Methacrylonitrile	7.17	41	801148m	120.360	ug/l	
42) 1,2-Dichloroethane	8.12	62	2214124	141.110	ug/l	100
43) Isopropyl Acetate	8.16	43	3177947	130.113	ug/l	100
44) Trichloroethene	8.83	130	1986934	146.240	ug/l	98
45) 1,2-Dichloropropane	9.11	63	1764308	135.563	ug/l	99
46) Dibromomethane	9.20	93	1167926	143.131	ug/l	99
47) Bromodichloromethane	9.40	83	2398271	153.556	ug/l	100
48) Methyl methacrylate	9.19	41	1508381	128.512	ug/l	99
49) 1,4-Dioxane	9.19	88	611072	2497.553	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	9235439	592.118	ug/l	100
52) Toluene	10.15	92	4392059	148.604	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	2671648	163.671	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	2928119	155.236	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	1682793	136.985	ug/l	99
56) Ethyl methacrylate	10.43	69	2613395	149.565	ug/l	100
57) 1,3-Dichloropropane	10.70	76	2795717	139.495	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	3815890	492.429	ug/l	100
59) 2-Hexanone	10.75	43	6672042	598.971	ug/l	99
60) Dibromochloromethane	10.90	129	2037782	166.277	ug/l	99
61) 1,2-Dibromoethane	11.00	107	1820570	148.641	ug/l	100
64) Tetrachloroethene	10.63	164	1902512	136.270	ug/l	99
65) Chlorobenzene	11.43	112	4904304	148.433	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	1870058	152.675	ug/l	99
67) Ethyl Benzene	11.51	91	8557112	148.050	ug/l	100
68) m/p-Xylenes	11.62	106	6573161	304.529	ug/l	100
69) o-Xylene	11.95	106	3176052	149.716	ug/l	100
70) Styrene	11.96	104	5521465	161.533	ug/l	100
71) Bromoform	12.13	173	1623044	174.375	ug/l #	100
73) Isopropylbenzene	12.25	105	8636230	137.015	ug/l	99
74) N-amyl acetate	12.07	43	2705878	120.633	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	2303208	111.110	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	1935313m	117.120	ug/l	
77) Bromobenzene	12.53	156	2353292	142.496	ug/l	99
78) n-propylbenzene	12.59	91	9685644	139.909	ug/l	100
79) 2-Chlorotoluene	12.67	91	5725025	132.977	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	7403246	139.042	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	835407	152.592	ug/l	98
82) 4-Chlorotoluene	12.77	91	5833591	143.891	ug/l	99
83) tert-Butylbenzene	12.99	119	6481756	138.532	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	7278387	141.099	ug/l	100
85) sec-Butylbenzene	13.17	105	8450437	143.050	ug/l	99
86) p-Isopropyltoluene	13.29	119	7861172	147.688	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	3874538	145.298	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	3740019	145.032	ug/l	100
89) n-Butylbenzene	13.62	91	6215143	148.527	ug/l	99
90) Hexachloroethane	13.88	117	1398723	158.331	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	3561415	131.552	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	376764	117.784	ug/l	99

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Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1562575	133.553	ug/l	100
94) Hexachlorobutadiene	15.01	225	1373569	136.592	ug/l	100
95) Naphthalene	15.13	128	3749997	124.793	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	1489994	124.891	ug/l	99

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

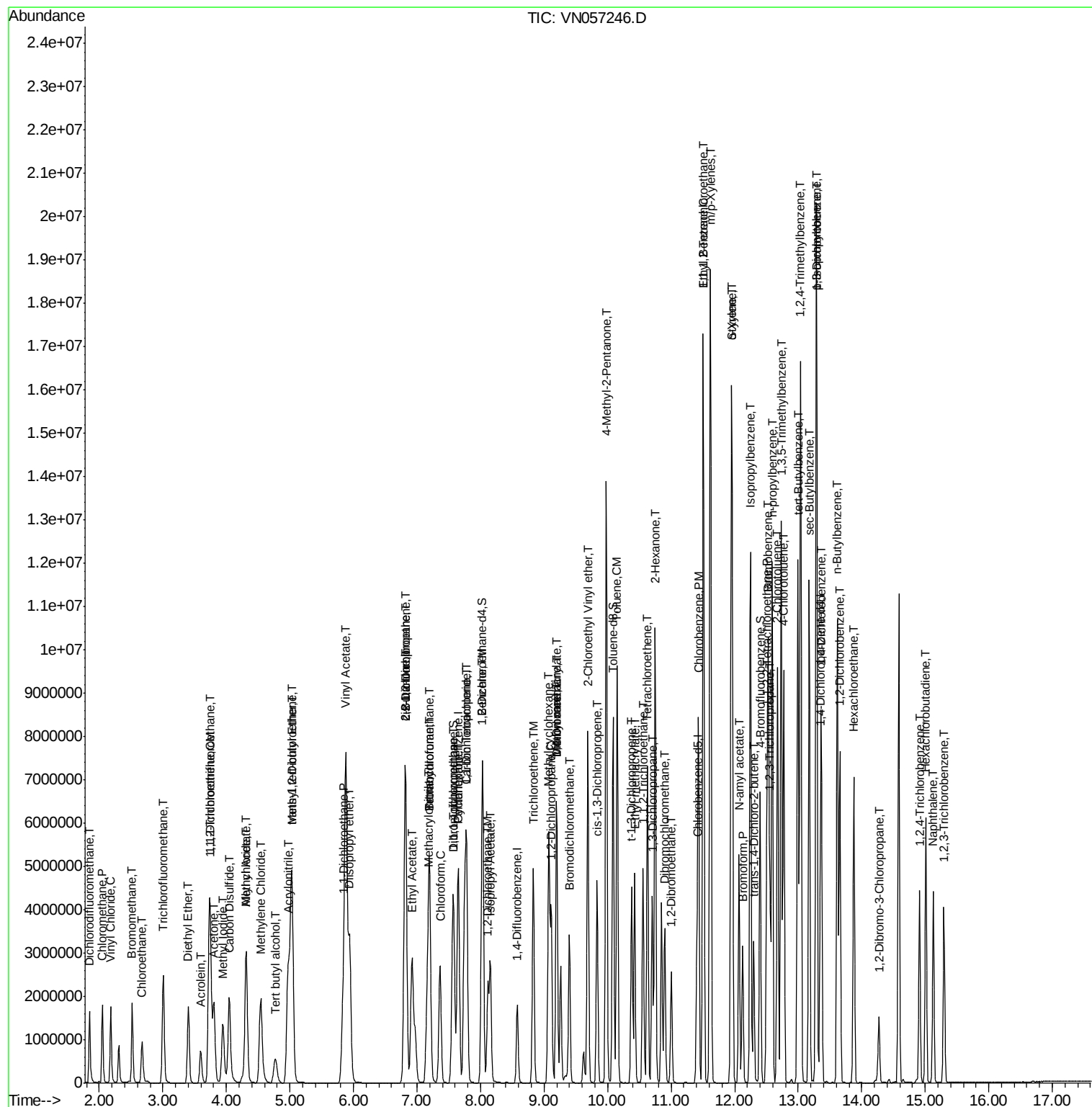
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Operator : JC/SP
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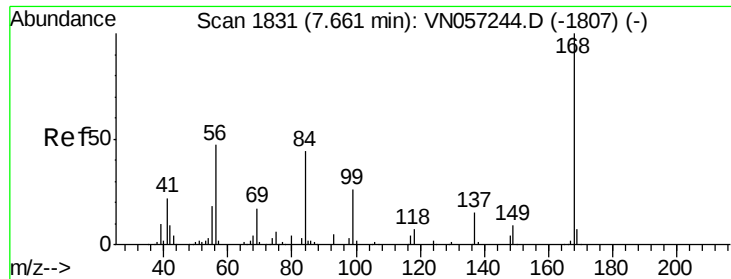
Instrument :
MSVOA_N
Client Sample Id :
VSTDIC150

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 1209892

Ion Ratio Lower Upper

168 100

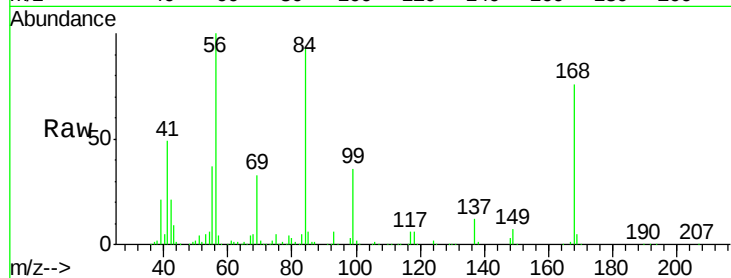
99 47.8 38.6 58.0

Manual Integrations

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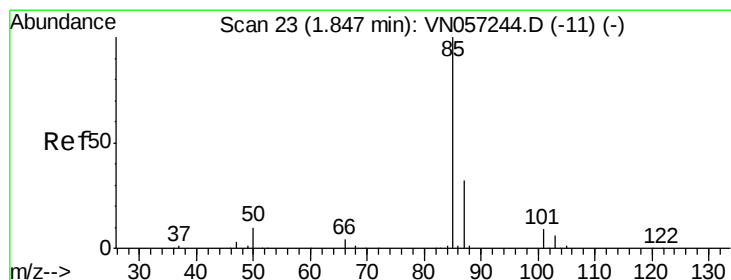
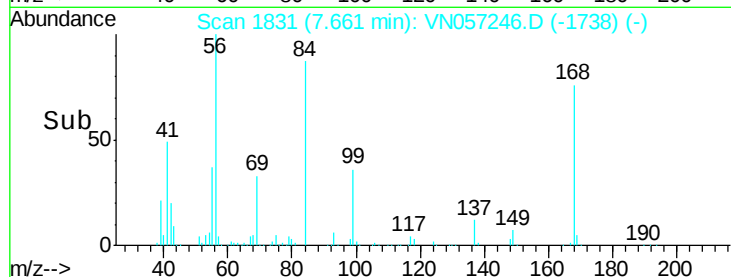
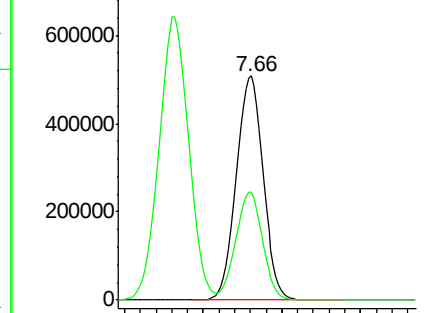
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 128.686 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057246.D

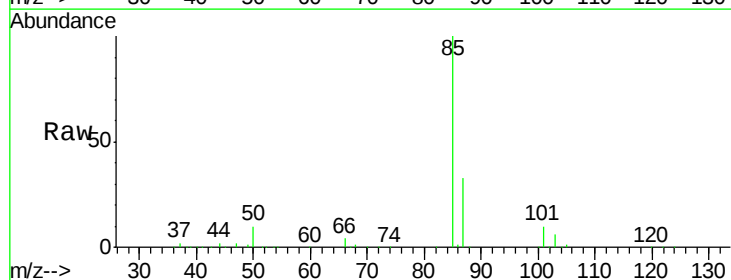
Acq: 13 Aug 2019 13:28

Tgt Ion: 85 Resp: 1449634

Ion Ratio Lower Upper

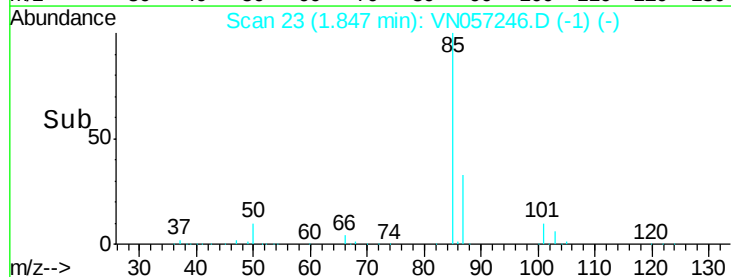
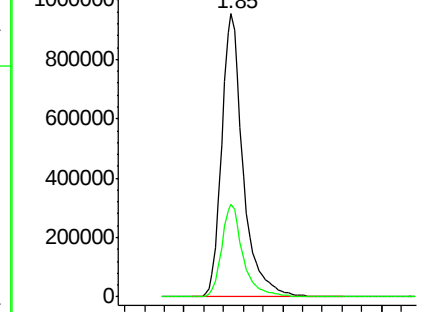
85 100

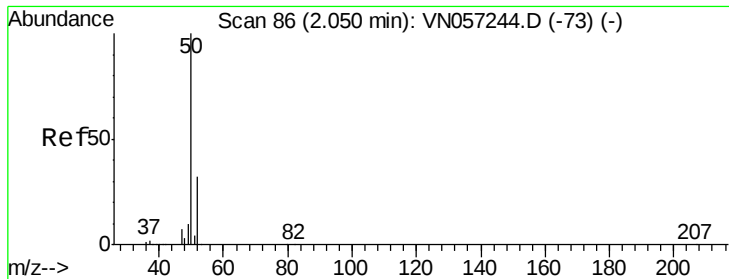
87 32.7 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 115.600 ug/l

RT: 2.05 min Scan# 86

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 1716790

Ion Ratio Lower Upper

50 100

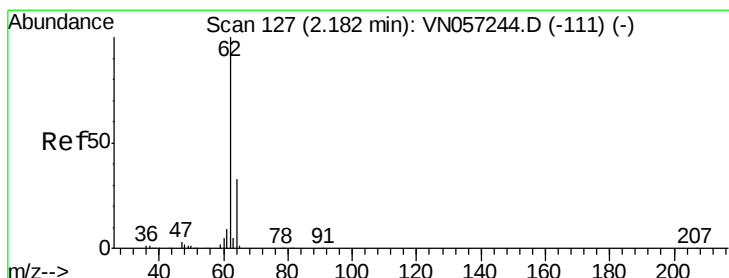
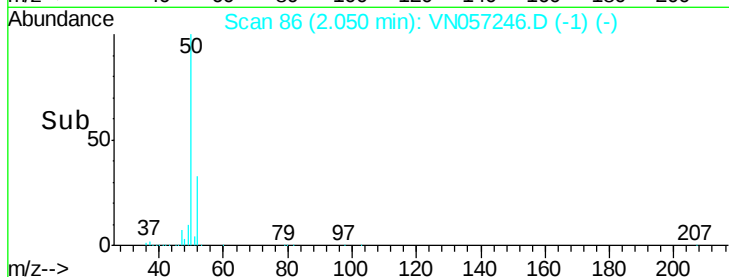
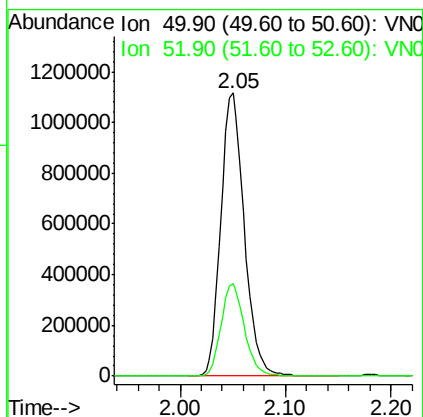
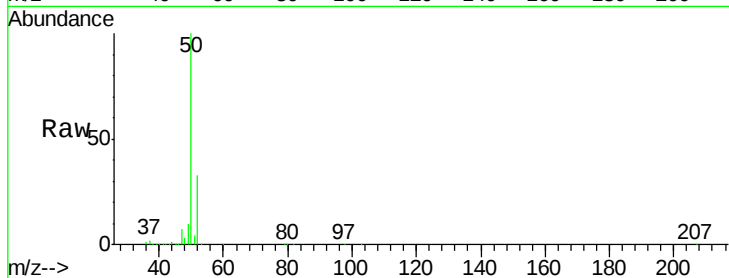
52 32.6 25.6 38.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 119.526 ug/l

RT: 2.18 min Scan# 126

Delta R.T. -0.00 min

Lab File: VN057246.D

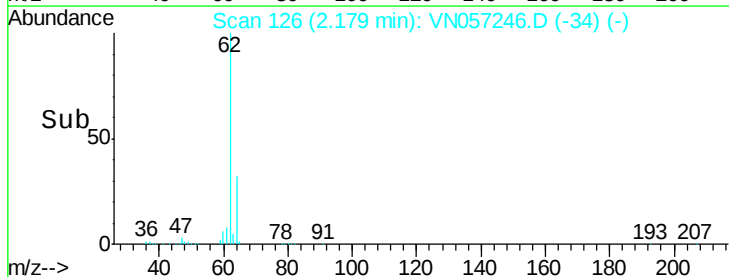
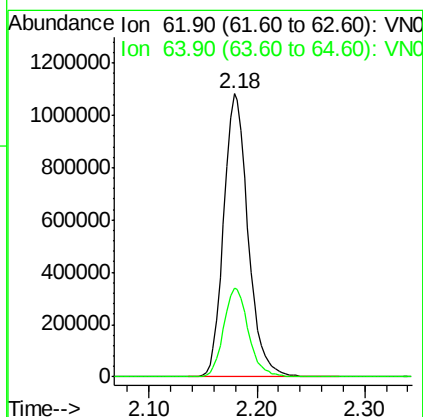
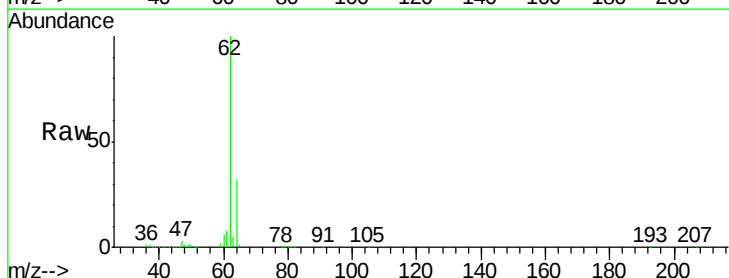
Acq: 13 Aug 2019 13:28

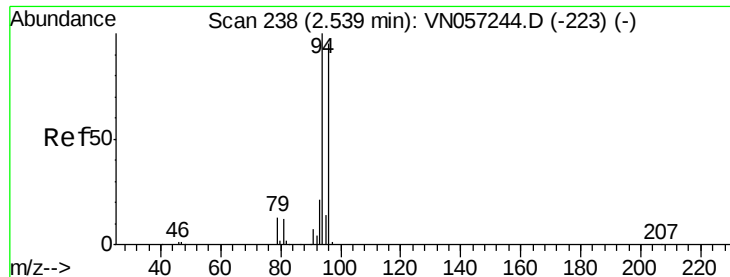
Tgt Ion: 62 Resp: 1706047

Ion Ratio Lower Upper

62 100

64 31.5 26.2 39.2





#5

Bromomethane

Concen: 118.823 ug/l

RT: 2.52 min Scan# 231

Delta R.T. -0.02 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

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ClientSampleId :

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Tot Ion: 94 Resp: 1024953

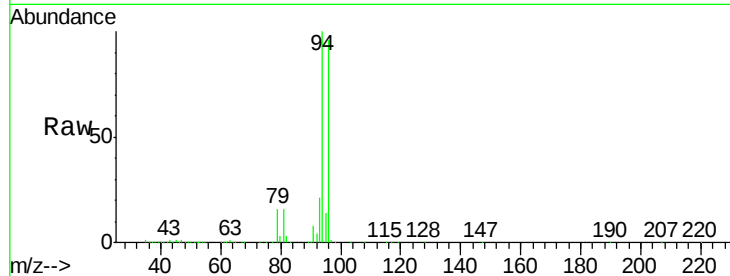
Ion Ratio Lower Upper

94 100

96 95.6 75.7 113.5

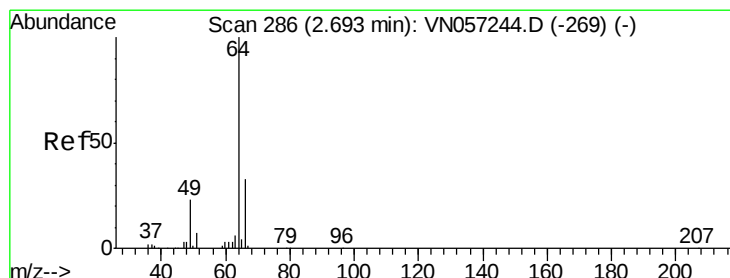
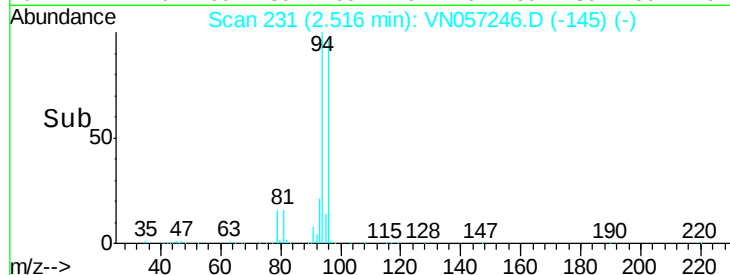
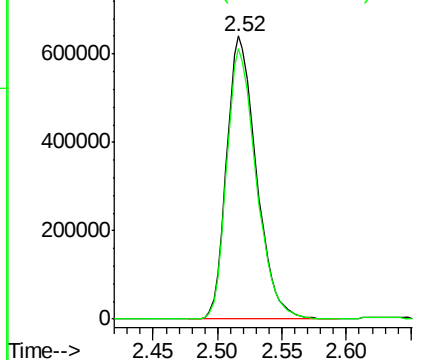
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 131.788 ug/l m

RT: 2.67 min Scan# 280

Delta R.T. -0.02 min

Lab File: VN057246.D

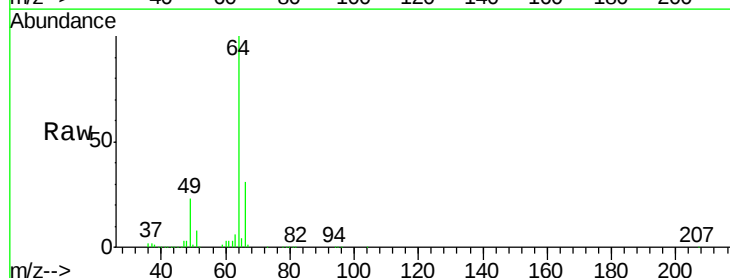
Acq: 13 Aug 2019 13:28

Tgt Ion: 64 Resp: 1120396

Ion Ratio Lower Upper

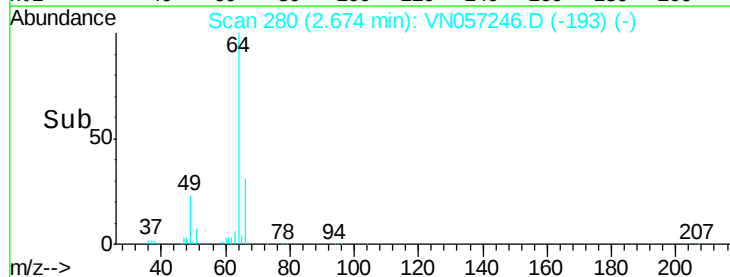
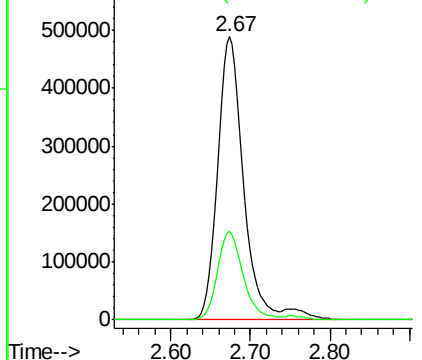
64 100

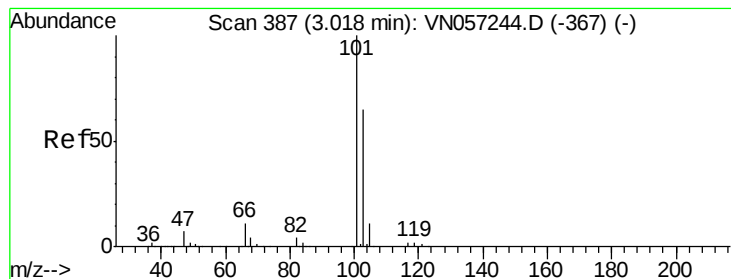
66 31.3 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

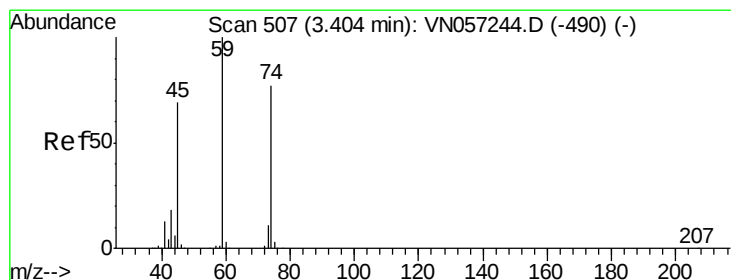
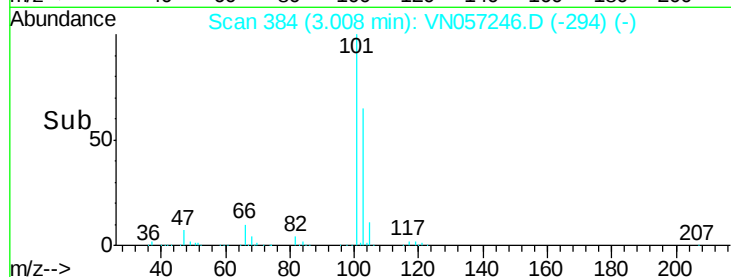
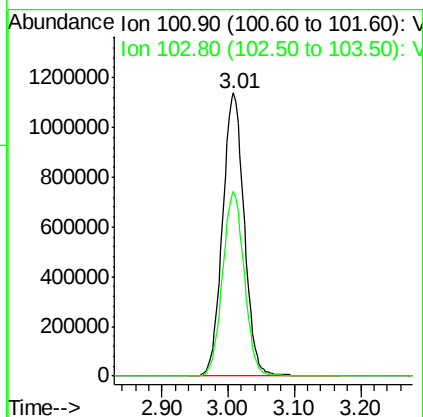
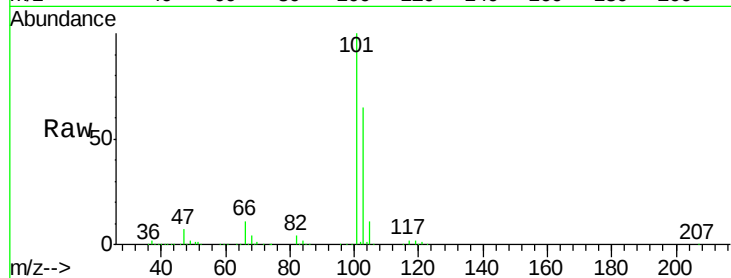
Trichlorofluoromethane
Concen: 136.832 ug/l
RT: 3.01 min Scan# 384
Delta R.T. -0.01 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
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ClientSampleId :
VSTDIC150

Tot Ion:101 Resp: 2578228
Ion Ratio Lower Upper
101 100
103 65.3 51.8 77.6

Manual Integrations
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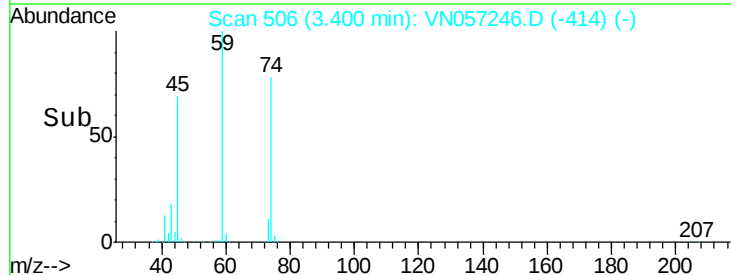
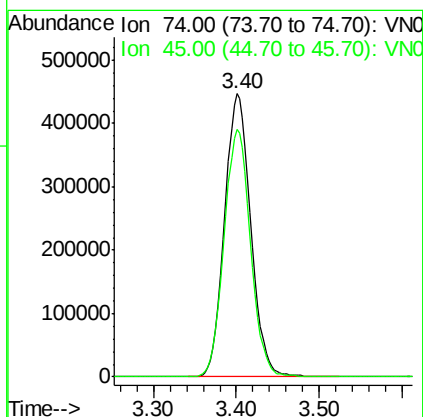
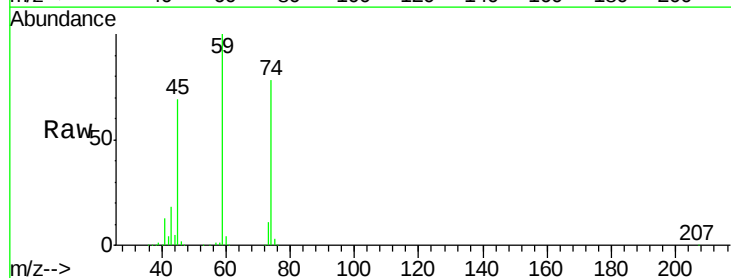
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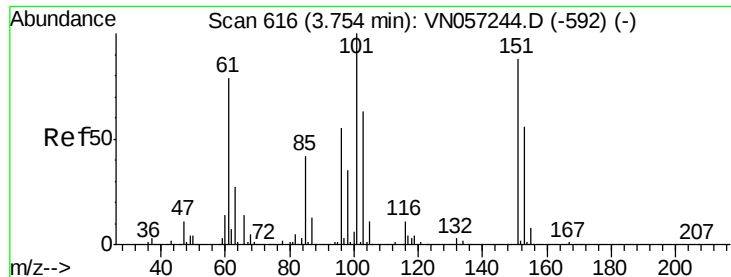


#8

Diethyl Ether
Concen: 135.917 ug/l
RT: 3.40 min Scan# 506
Delta R.T. -0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 74 Resp: 981318
Ion Ratio Lower Upper
74 100
45 87.9 45.1 135.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 136.844 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:101 Resp: 1543193

Ion Ratio Lower Upper

101 100

85 40.6 32.7 49.1

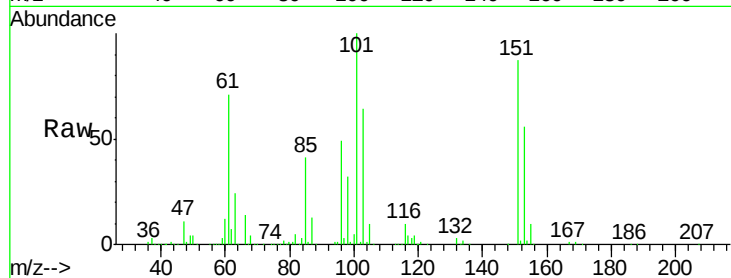
151 87.7 70.1 105.1

Manual Integrations

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MMDadoda

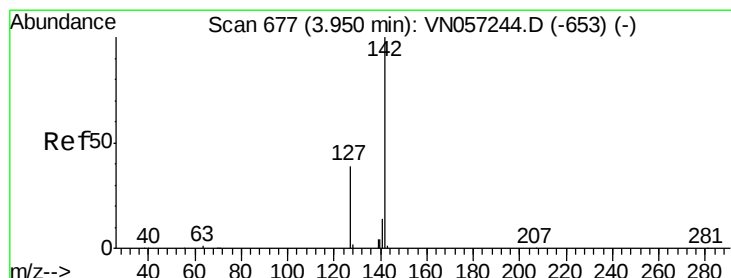
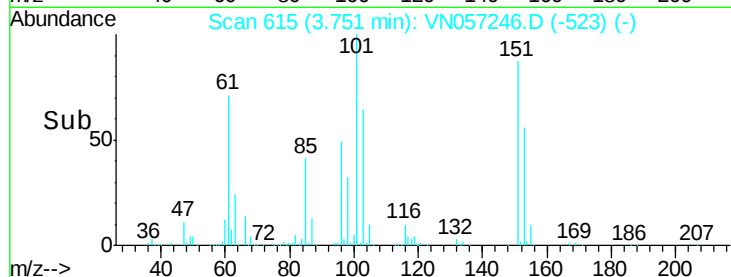
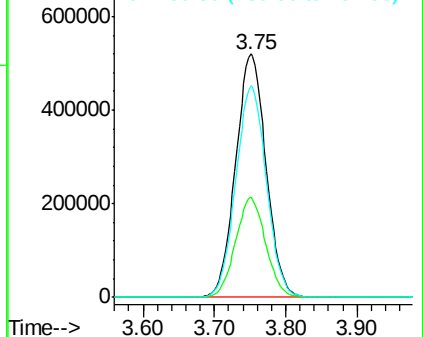
8/16/2019 8:58:22 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 166.644 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.01 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

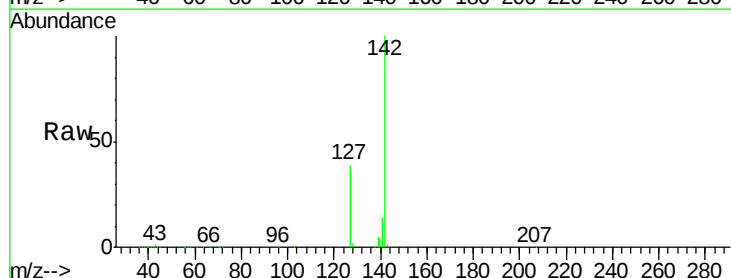
Tgt Ion:142 Resp: 2595235

Ion Ratio Lower Upper

142 100

127 38.6 30.7 46.1

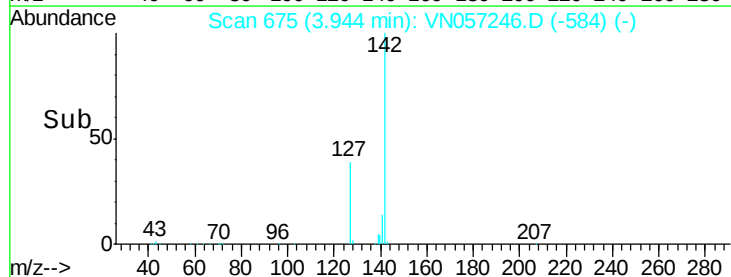
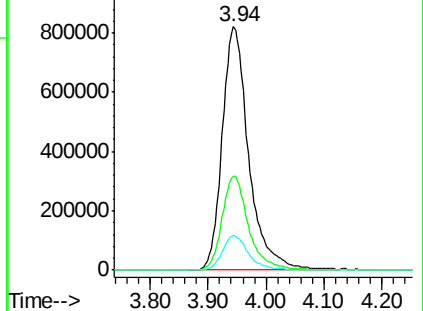
141 14.2 11.0 16.6

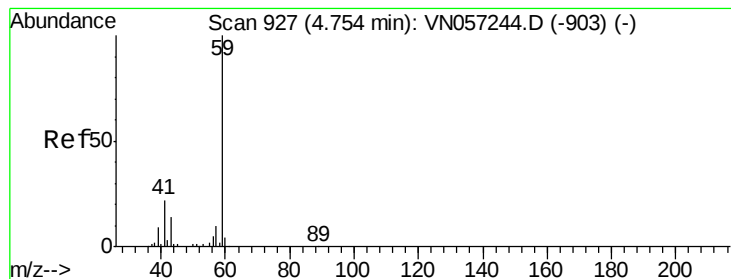


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

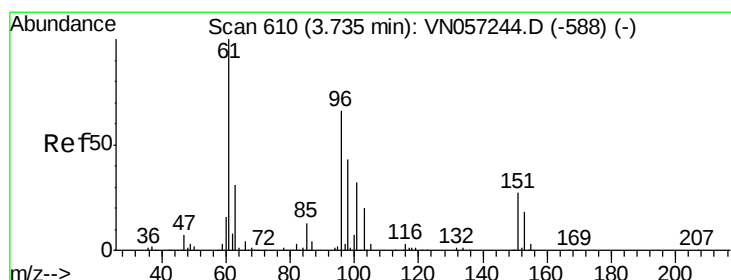
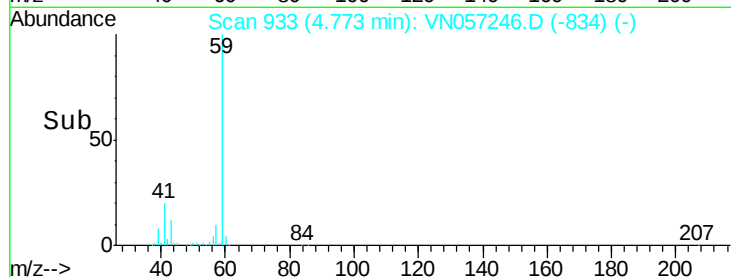
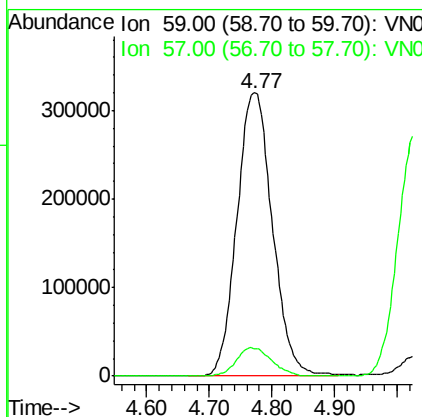
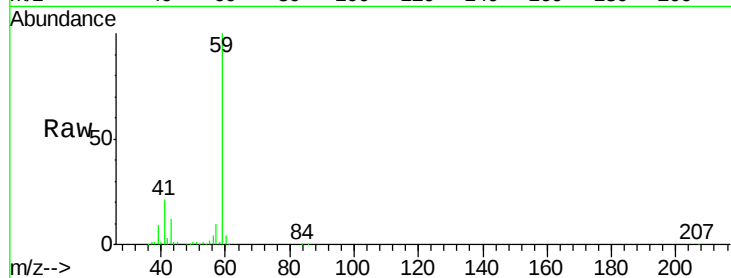
Tert butyl alcohol
 Concen: 593.588 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. 0.02 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 59 Resp: 1258285
 Ion Ratio Lower Upper
 59 100
 57 10.1 3.4 5.2#

Manual Integrations
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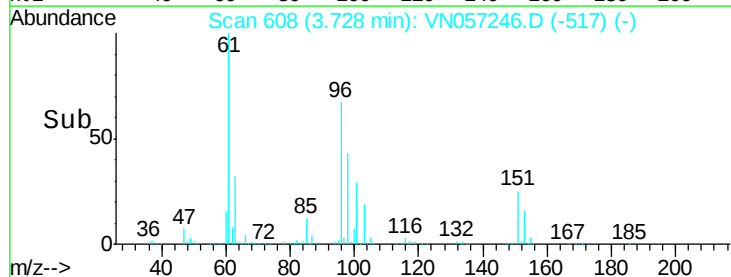
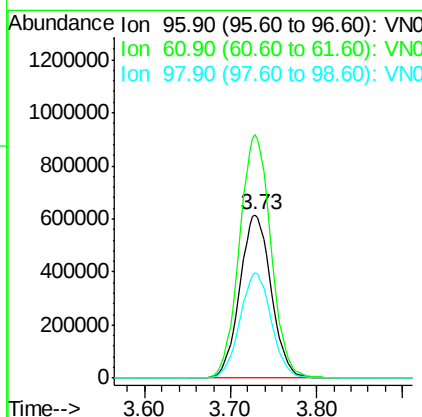
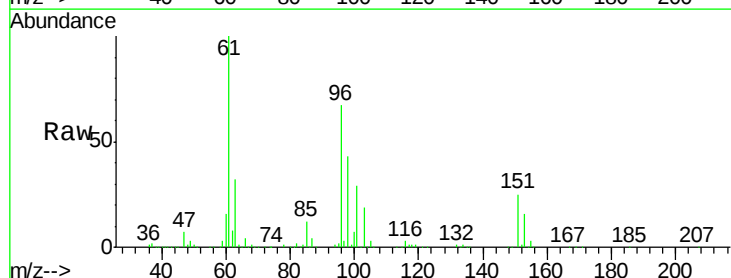
MMDadoda
 8/16/2019 8:58:22 AM

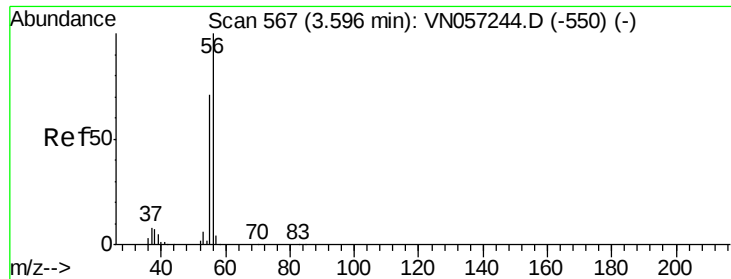


#12

1,1-Dichloroethene
 Concen: 138.336 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.01 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Tgt Ion: 96 Resp: 1561006
 Ion Ratio Lower Upper
 96 100
 61 148.9 121.1 181.7
 98 64.5 52.0 78.0





#13

Acrolein

Concen: 968.899 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 877421

Ion Ratio Lower Upper

56 100

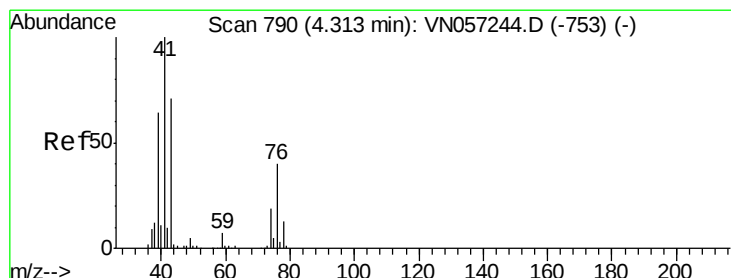
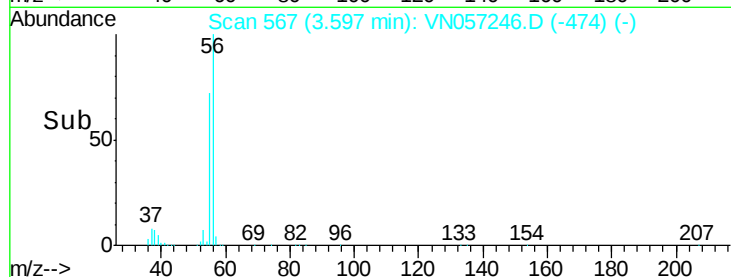
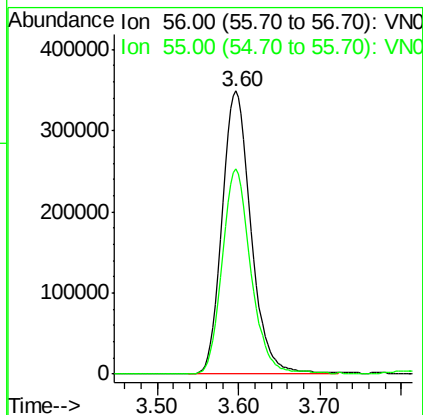
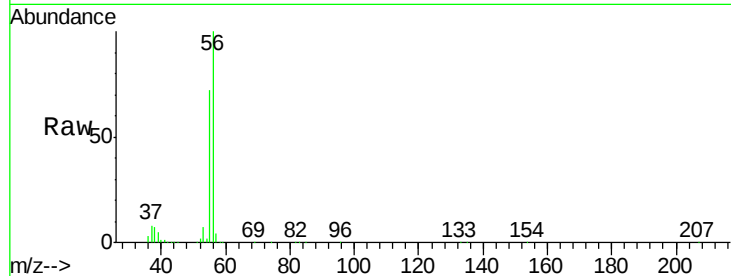
55 71.7 56.6 84.8

Manual Integrations

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#14

Allyl chloride

Concen: 127.732 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

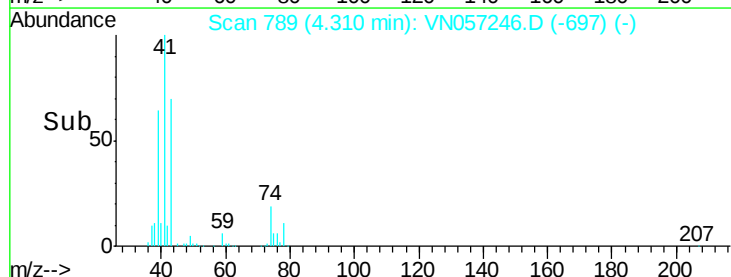
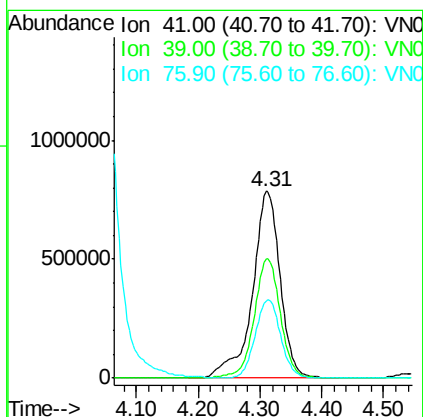
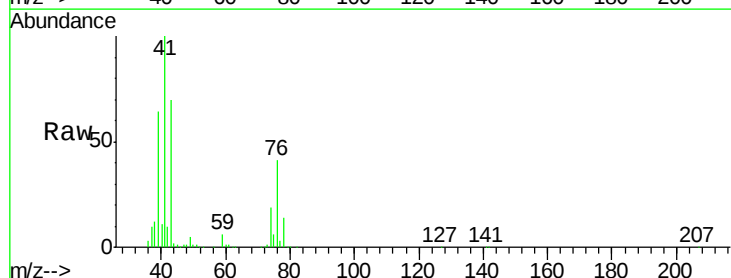
Tgt Ion: 41 Resp: 2445317

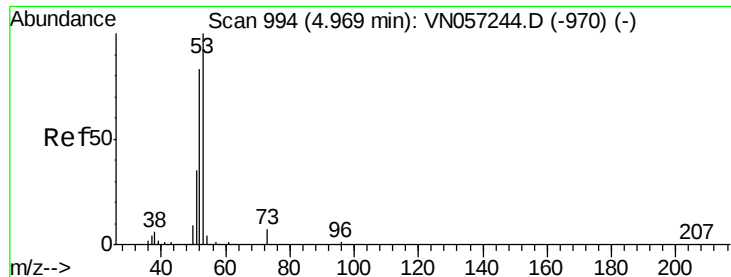
Ion Ratio Lower Upper

41 100

39 60.4 48.5 72.7

76 38.0 29.8 44.8





#15

Acrylonitrile

Concen: 578.042 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 3563194

Ion Ratio Lower Upper

53 100

52 82.9 65.9 98.9

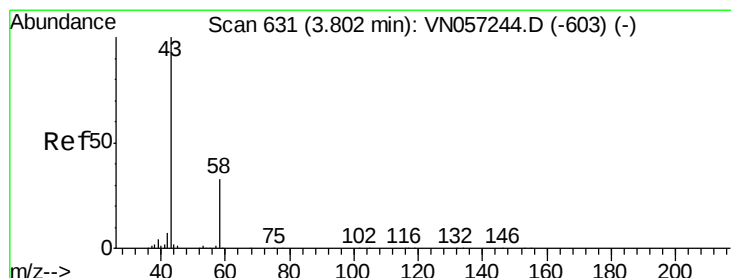
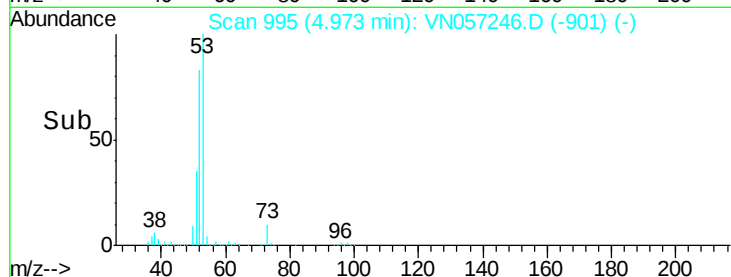
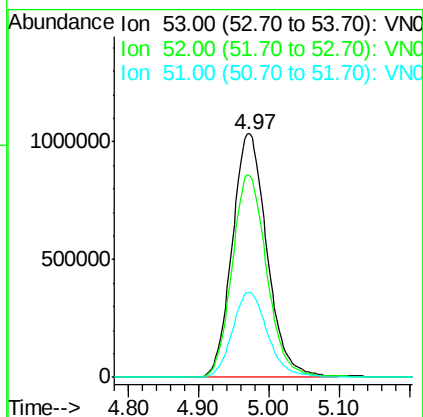
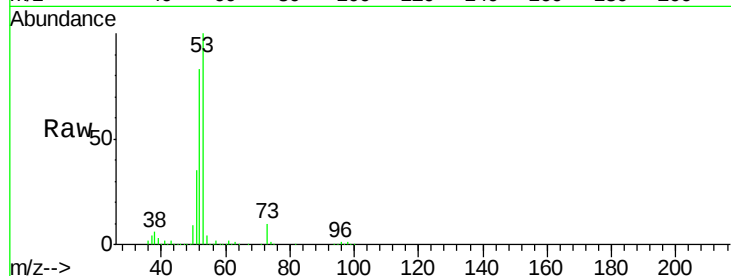
51 35.6 27.8 41.6

Manual Integrations

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#16

Acetone

Concen: 508.700 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN057246.D

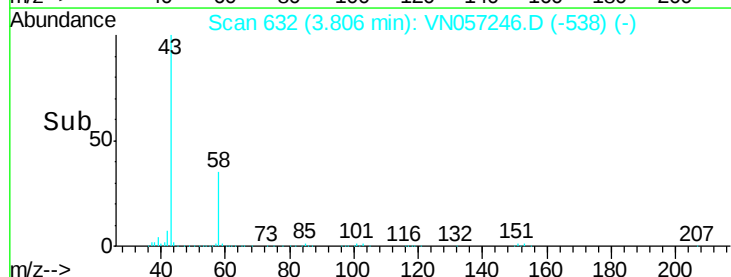
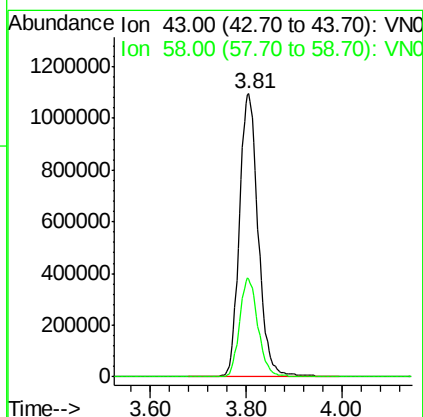
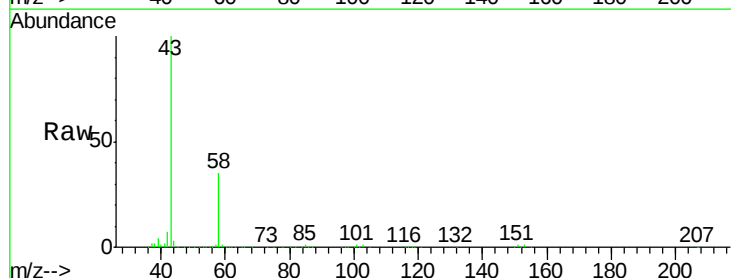
Acq: 13 Aug 2019 13:28

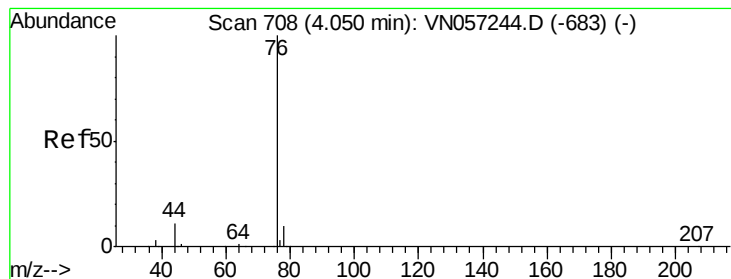
Tgt Ion: 43 Resp: 2994114

Ion Ratio Lower Upper

43 100

58 34.6 26.7 40.1





#17

Carbon Disulfide

Concen: 146.760 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 4402209

Ion Ratio Lower Upper

76 100

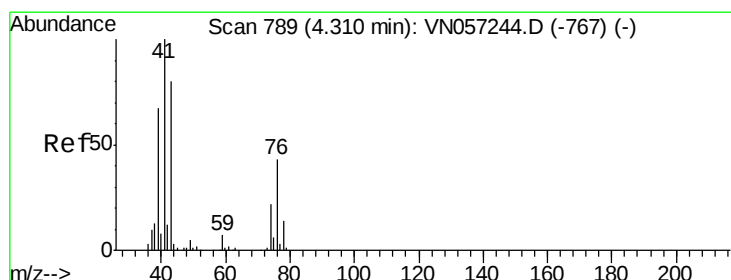
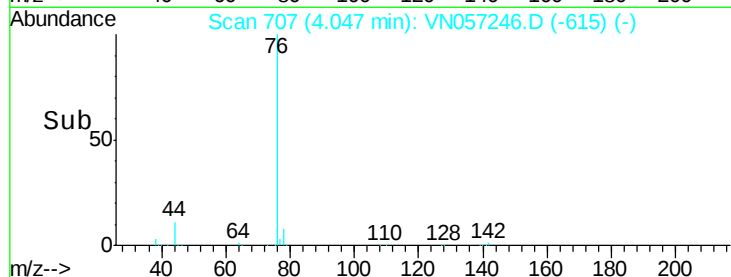
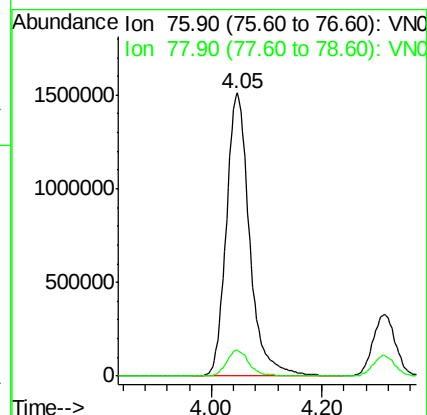
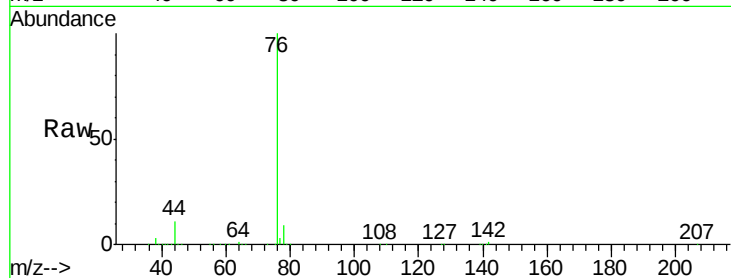
78 9.0 7.7 11.5

Manual Integrations

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#18

Methyl Acetate

Concen: 99.774 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN057246.D

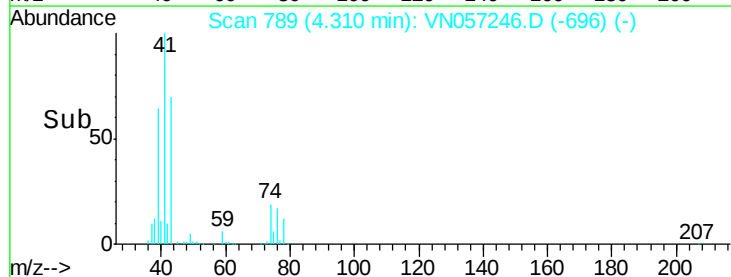
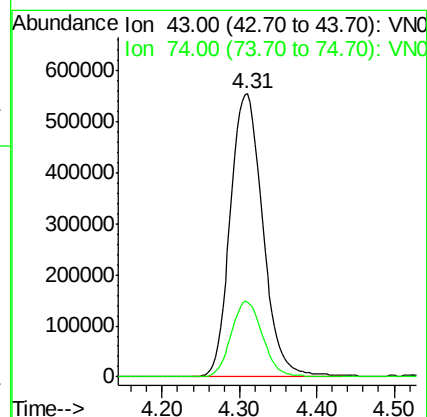
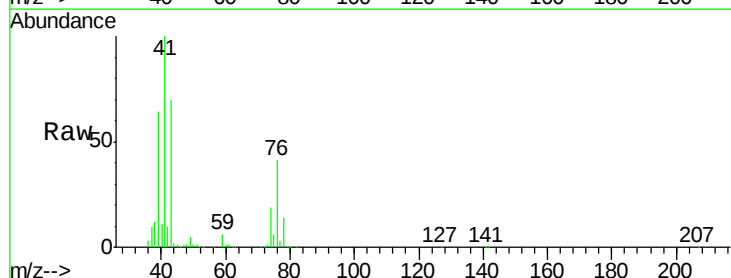
Acq: 13 Aug 2019 13:28

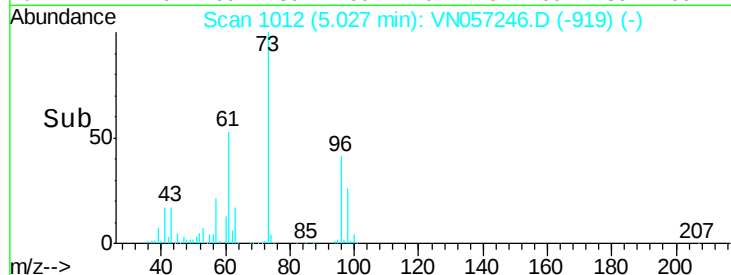
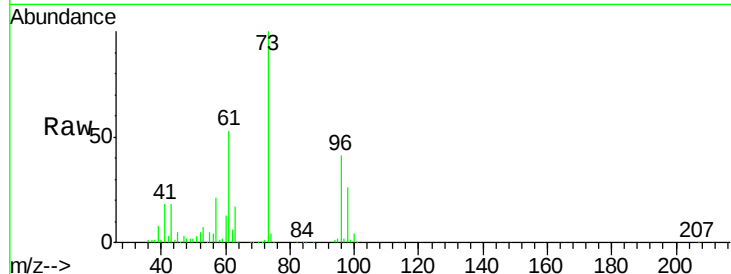
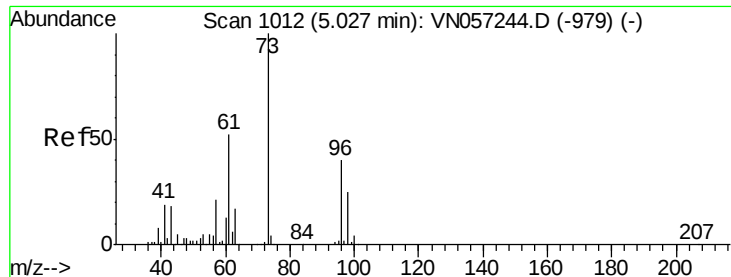
Tgt Ion: 43 Resp: 1607568

Ion Ratio Lower Upper

43 100

74 26.1 20.6 31.0





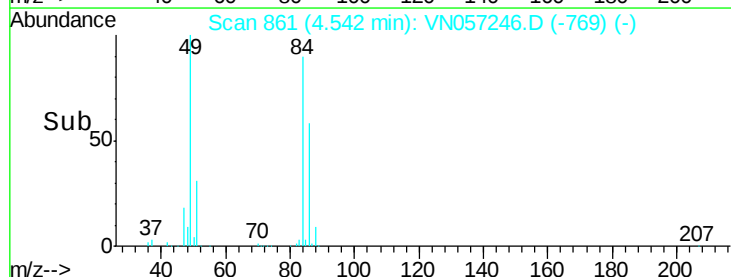
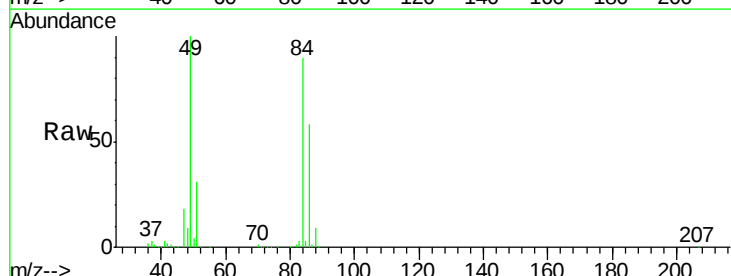
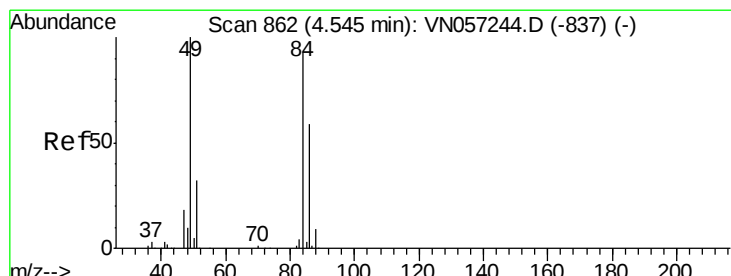
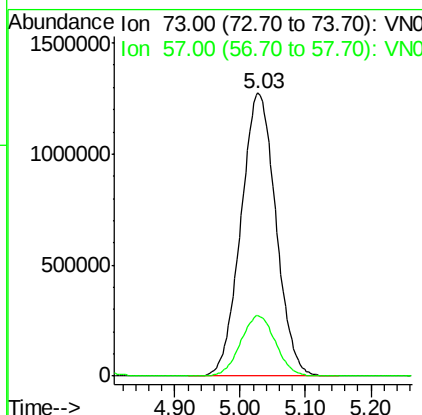
#19
Methvl tert-butvl Ether
Concen: 133.059 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tot Ion: 73 Resp: 4737782
Ion Ratio Lower Upper
73 100
57 21.4 17.1 25.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

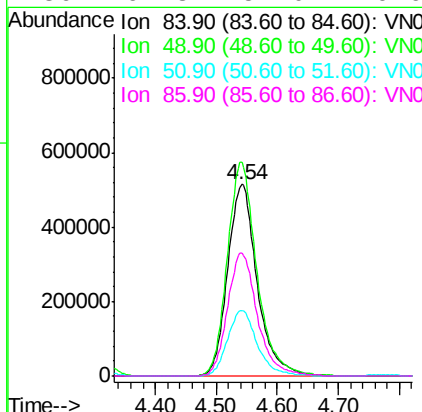
Manual Integrations
APPROVED

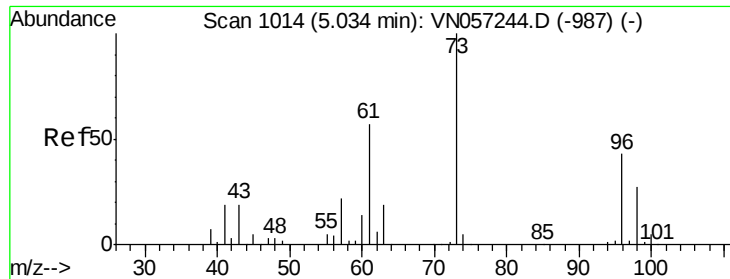
MMDadoda
8/16/2019 8:58:22 AM



#20
Methylene Chloride
Concen: 130.220 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 84 Resp: 1732644
Ion Ratio Lower Upper
84 100
49 111.5 85.9 128.9
51 34.4 27.1 40.7
86 64.3 51.0 76.6





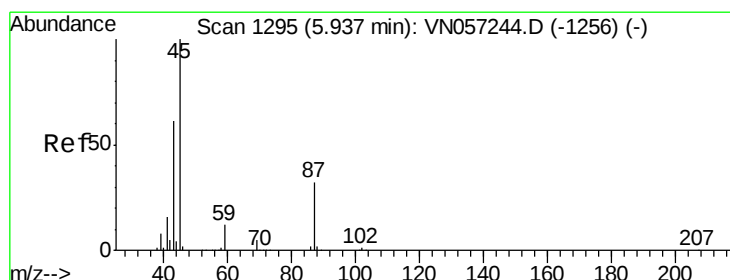
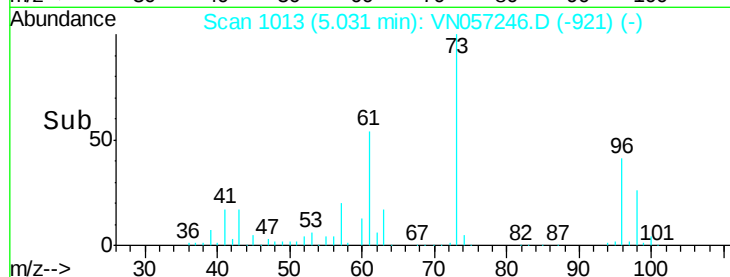
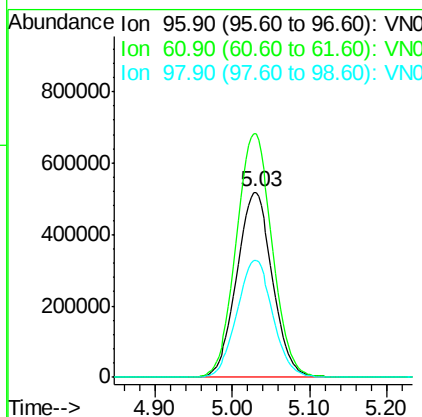
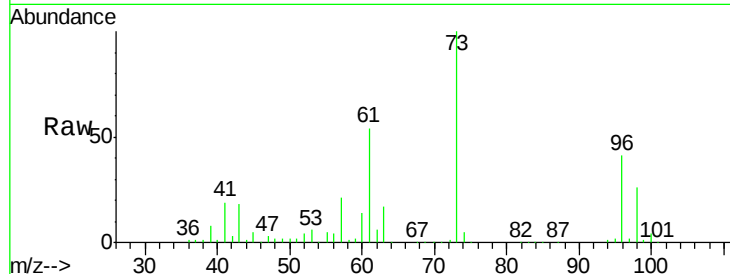
#21
trans-1,2-Dichloroethene
Concen: 139.589 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.4	104.6	156.8
98	63.4	49.7	74.5

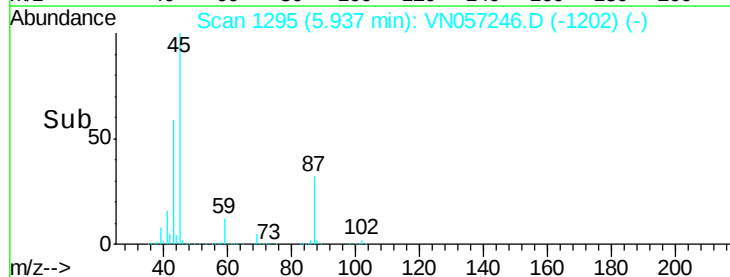
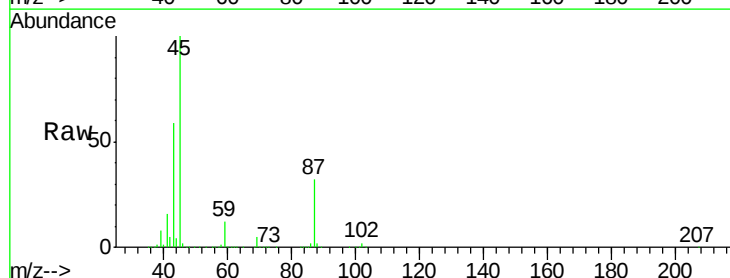
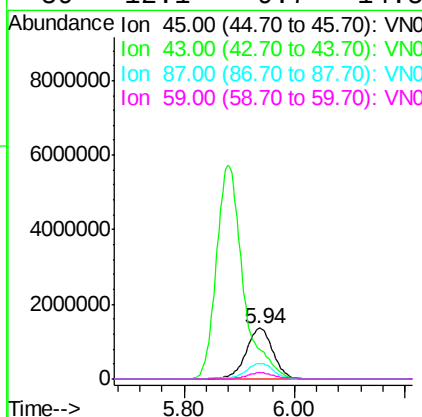
Manual Integrations
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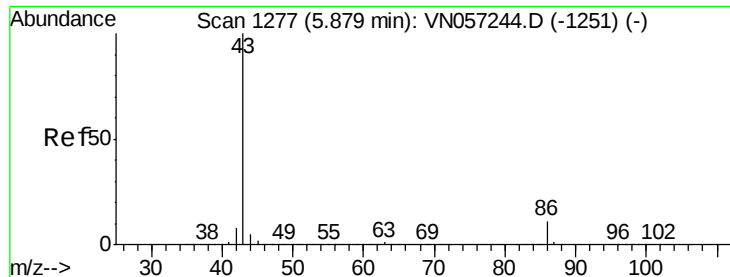
MMDadoda
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#22
Diisopropyl ether
Concen: 122.994 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.4	48.9	73.3
87	31.5	25.5	38.3
59	12.1	9.7	14.5





#23

Vinyl Acetate

Concen: 631.993 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp:19160820

Ion Ratio Lower Upper

43 100

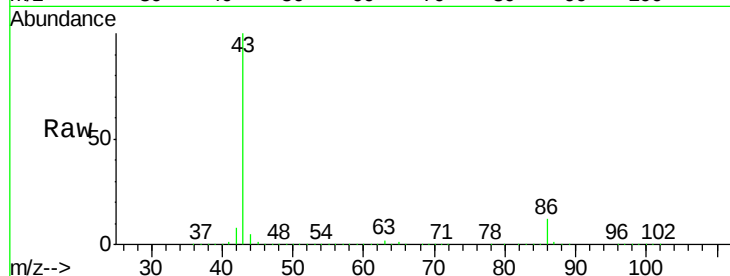
86 11.5 9.2 13.8

Manual Integrations

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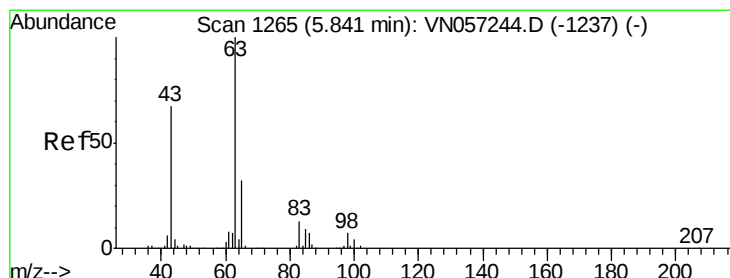
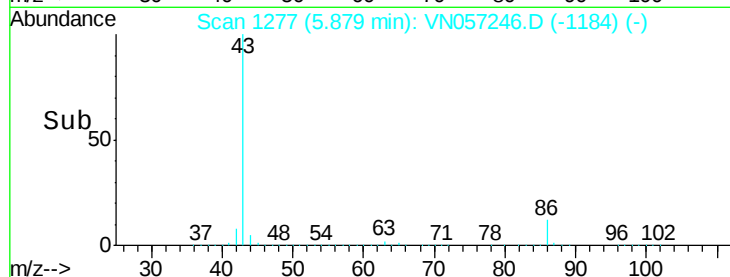
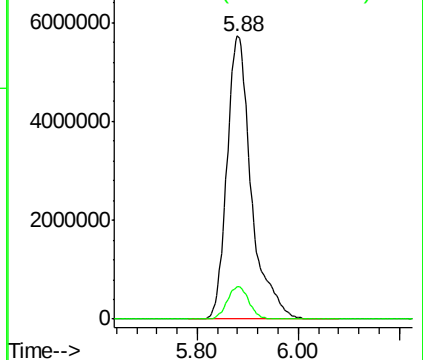
MMDadoda

8/16/2019 8:58:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 131.443 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

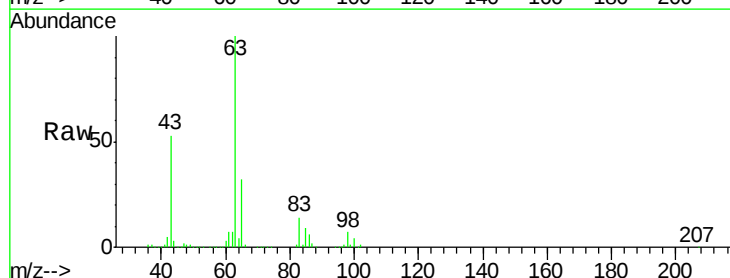
Tgt Ion: 63 Resp: 2908075

Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.9

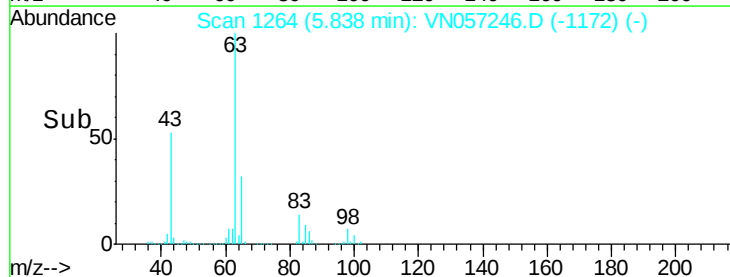
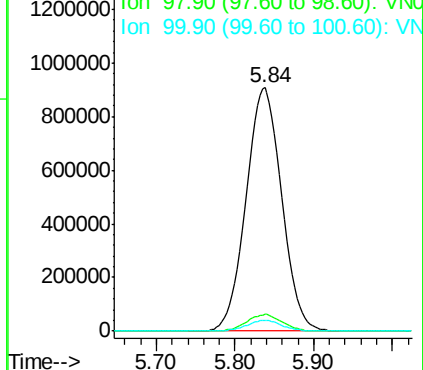
100 4.4 2.1 6.2

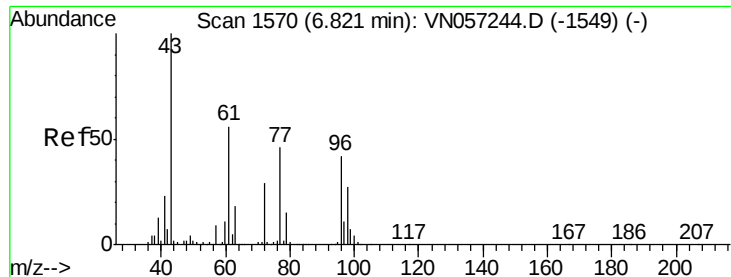


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 529.194 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 4522295

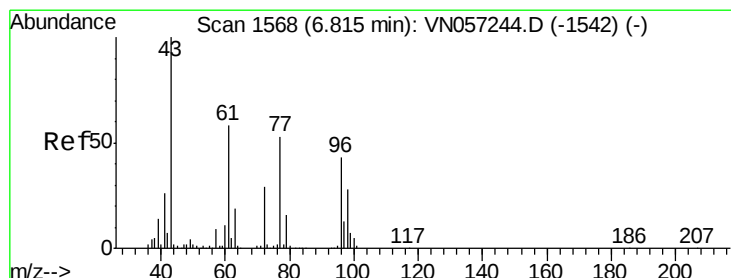
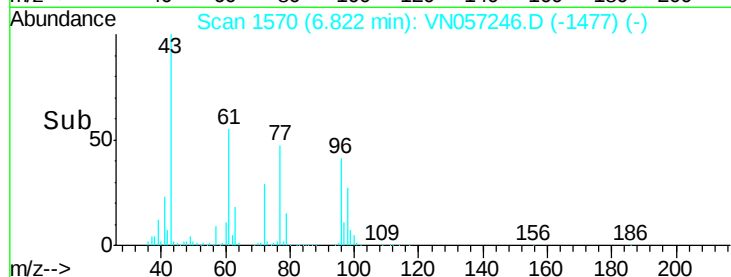
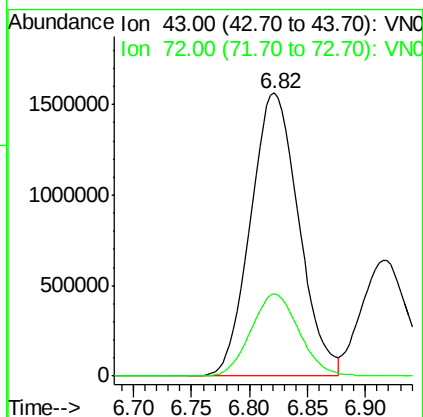
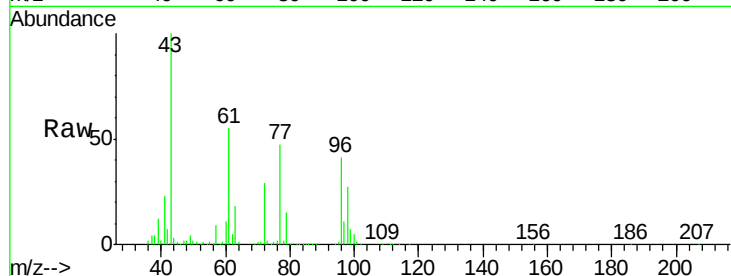
Ion Ratio Lower Upper

43 100

72 29.1 23.1 34.7

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#26

2,2-Dichloropropane

Concen: 152.050 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN057246.D

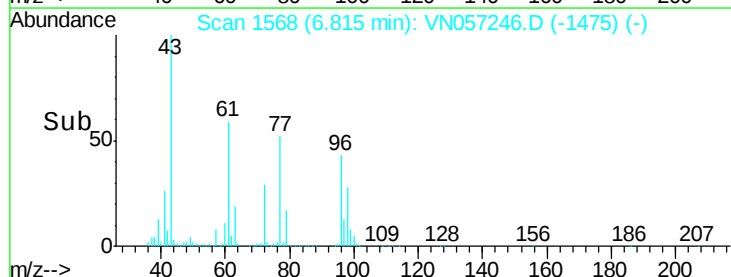
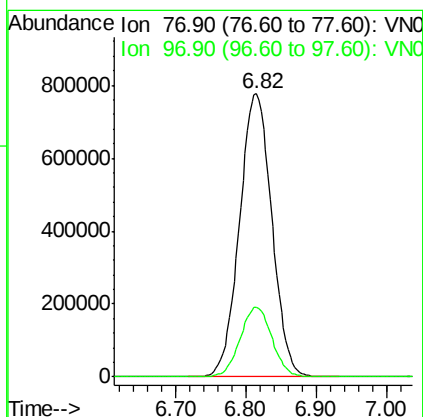
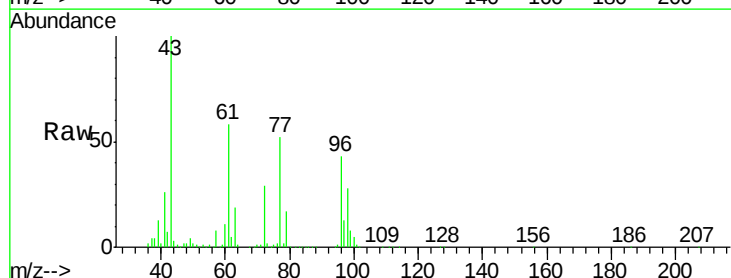
Acq: 13 Aug 2019 13:28

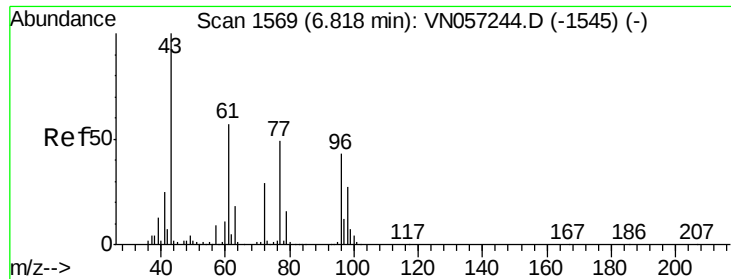
Tgt Ion: 77 Resp: 2481468

Ion Ratio Lower Upper

77 100

97 24.2 12.1 36.3





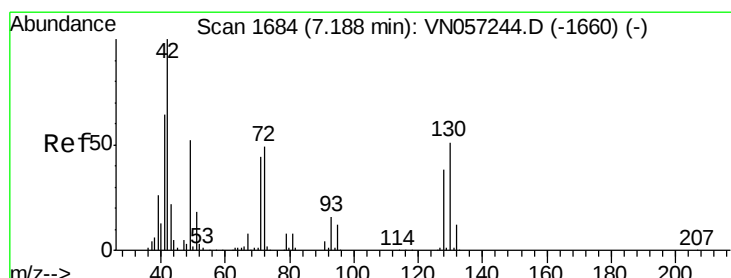
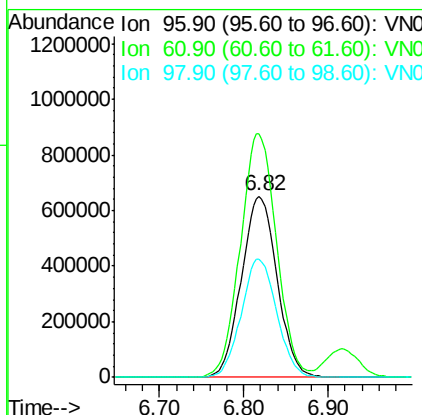
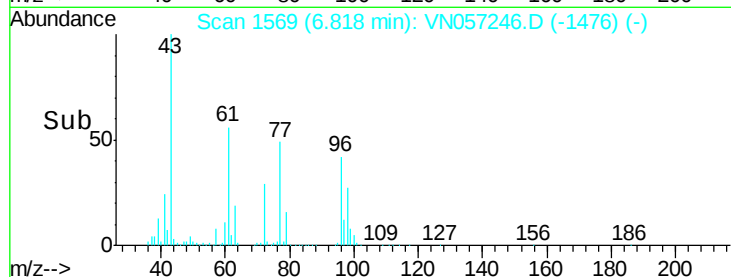
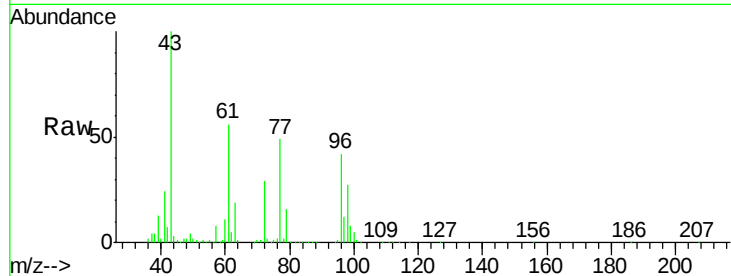
#27
 cis-1,2-Dichloroethene
 Concen: 139.635 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 96 Resp: 1914270
 Ion Ratio Lower Upper
 96 100
 61 136.5 0.0 271.0
 98 65.1 0.0 129.2

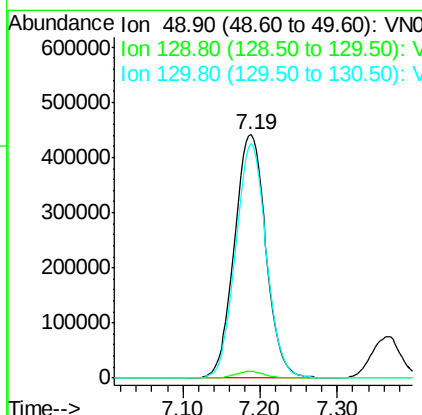
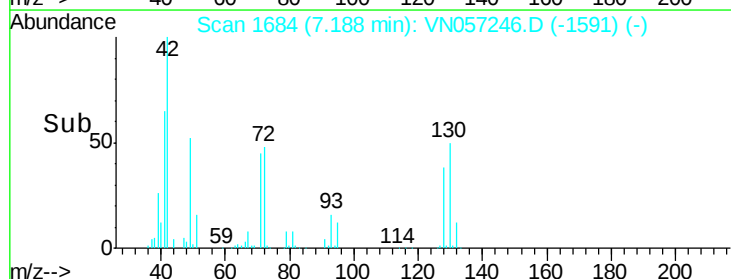
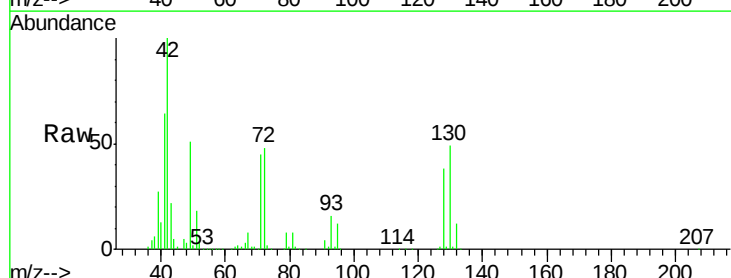
Manual Integrations
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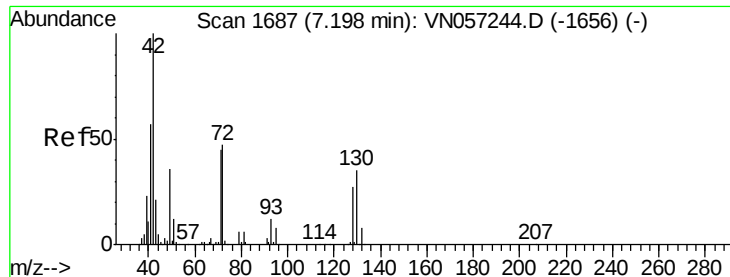
MMDadoda
 8/16/2019 8:58:22 AM



#28
 Bromochloromethane
 Concen: 122.209 ug/l
 RT: 7.19 min Scan# 1684
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Tgt Ion: 49 Resp: 1248245
 Ion Ratio Lower Upper
 49 100
 129 2.6 0.0 3.0
 130 93.7 75.6 113.4





#29

Tetrahydrofuran

Concen: 511.883 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 42 Resp: 2840658

Ion Ratio Lower Upper

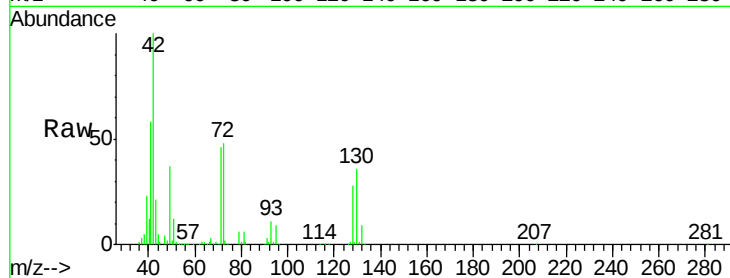
42 100

72 47.7 37.6 56.4

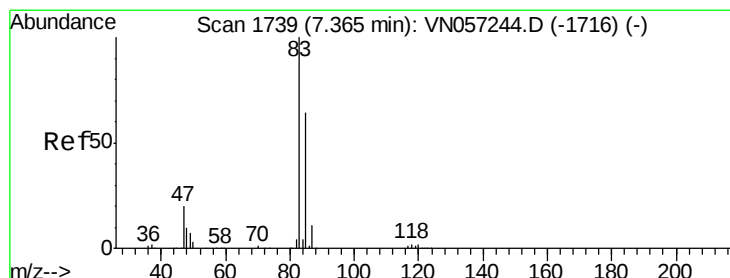
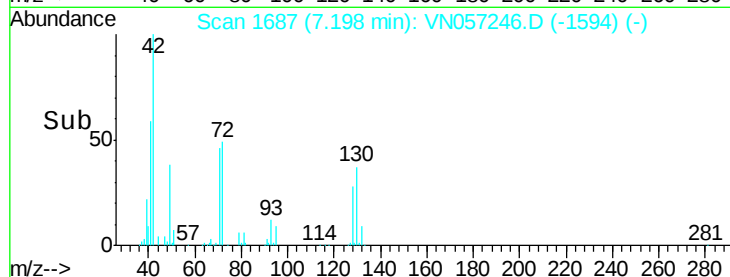
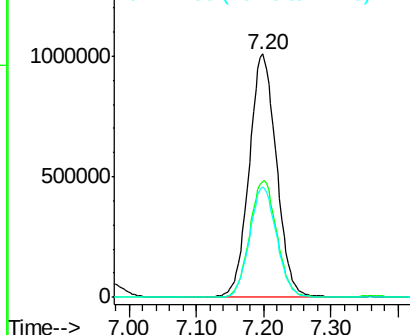
71 45.1 35.6 53.4

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Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#30

Chloroform

Concen: 133.146 ug/l

RT: 7.36 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN057246.D

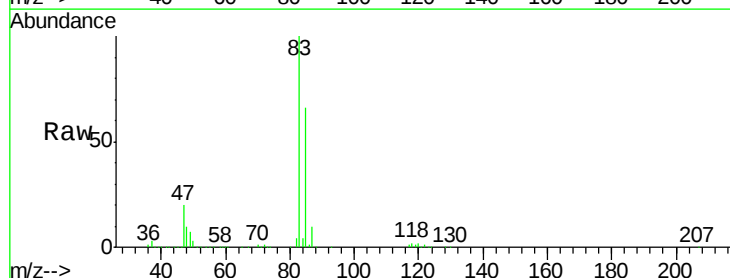
Acq: 13 Aug 2019 13:28

Tgt Ion: 83 Resp: 2969687

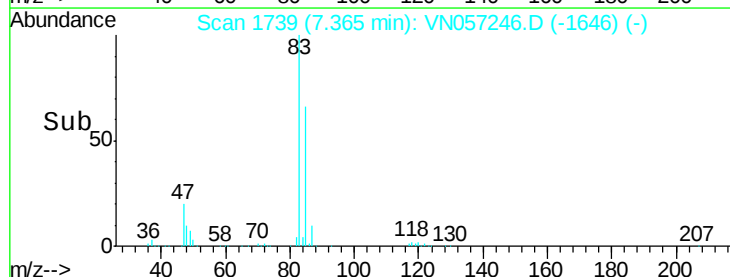
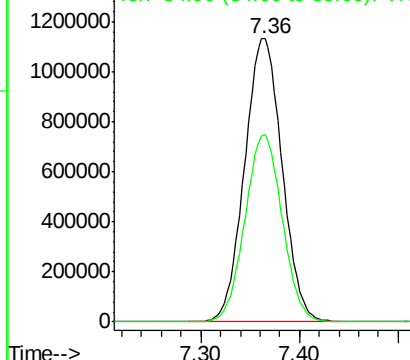
Ion Ratio Lower Upper

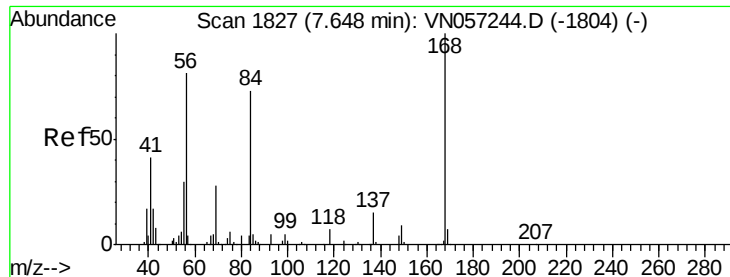
83 100

85 66.2 51.3 76.9



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





#31

Cyclohexane

Concen: 121.870 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 2512875

Ion Ratio Lower Upper

56 100

69 32.4 27.8 41.8

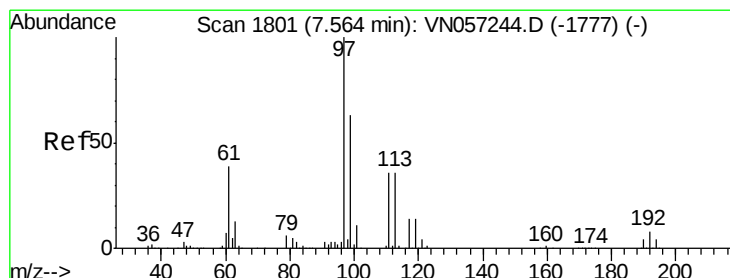
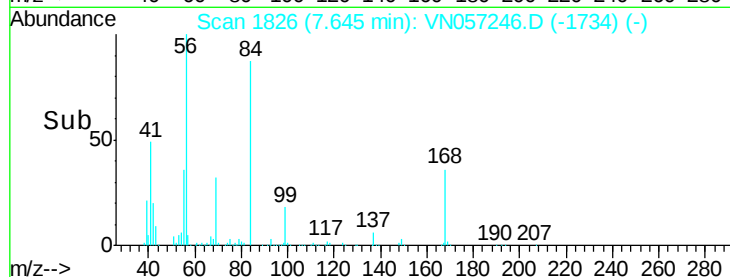
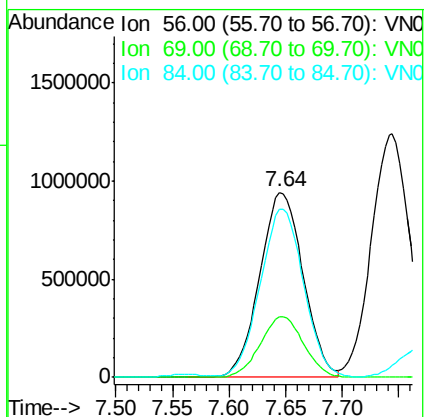
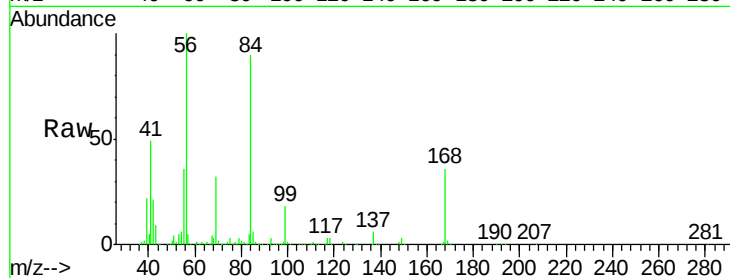
84 89.0 72.0 108.0

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 150.623 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

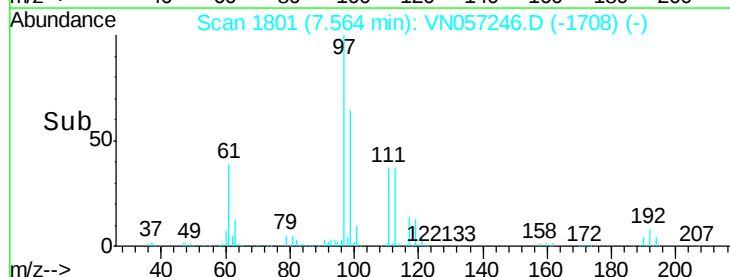
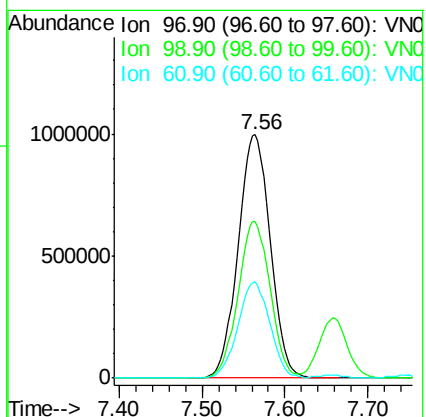
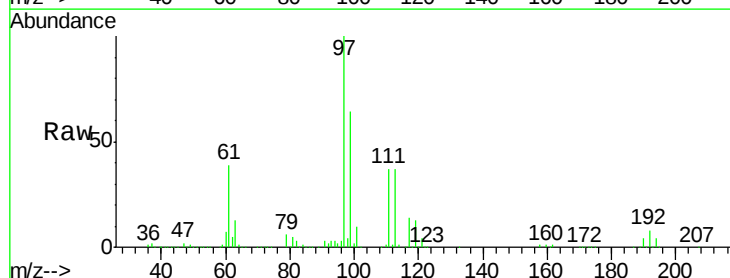
Tgt Ion: 97 Resp: 2685377

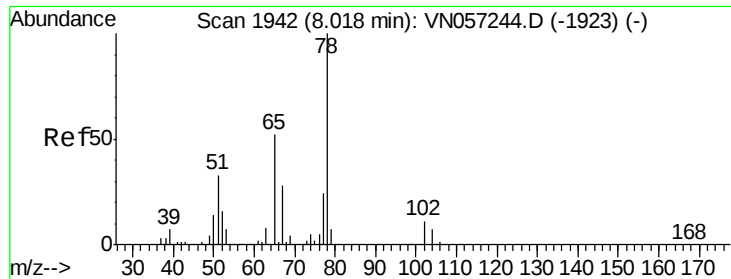
Ion Ratio Lower Upper

97 100

99 64.2 51.7 77.5

61 39.2 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 135.283 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 65 Resp: 1794797

Ion Ratio Lower Upper

65 100

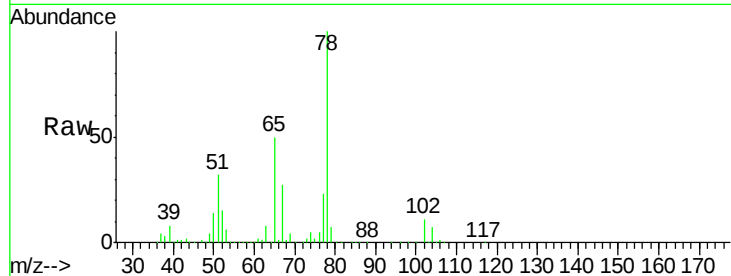
67 53.9 0.0 107.0

Manual Integrations

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MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN057246.D (-1849) (-)

Ion 66.90 (66.60 to 67.60): VN057246.D (-1849) (-)

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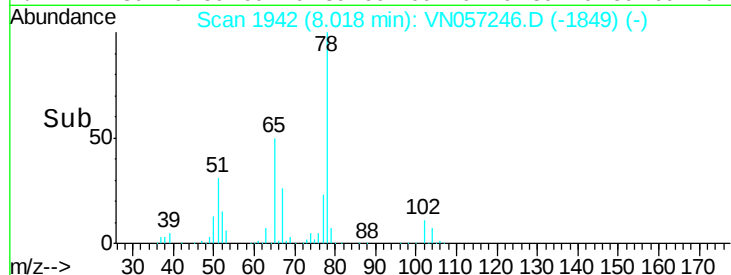
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Abundance Ion 64.90 (64.60 to 65.60): VN057246.D (-1849) (-)

Ion 66.90 (66.60 to 67.60): VN057246.D (-1849) (-)

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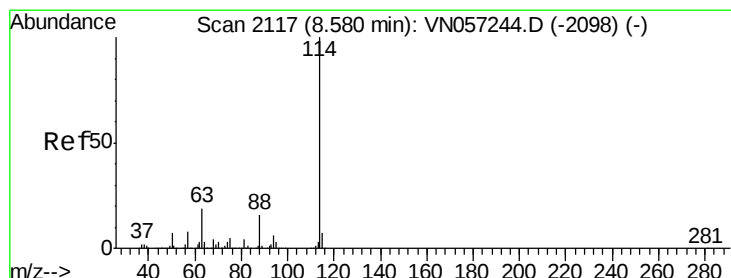
8.02

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

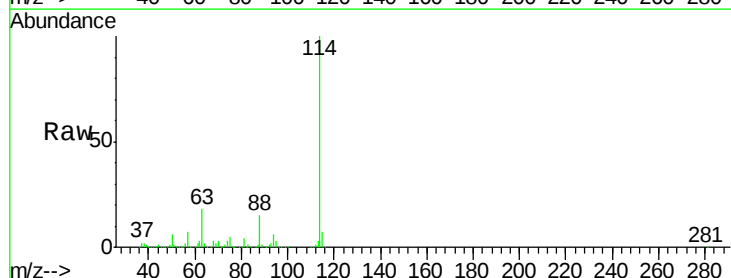
Tgt Ion:114 Resp: 1755391

Ion Ratio Lower Upper

114 100

63 17.8 0.0 37.0

88 15.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN057246.D (-2024) (-)

Ion 63.00 (62.70 to 63.70): VN057246.D (-2024) (-)

Ion 87.90 (87.60 to 88.60): VN057246.D (-2024) (-)

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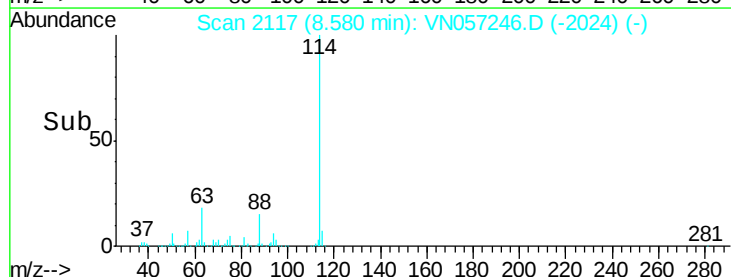
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Abundance Ion 113.90 (113.60 to 114.60): VN057246.D (-2024) (-)

Ion 63.00 (62.70 to 63.70): VN057246.D (-2024) (-)

Ion 87.90 (87.60 to 88.60): VN057246.D (-2024) (-)

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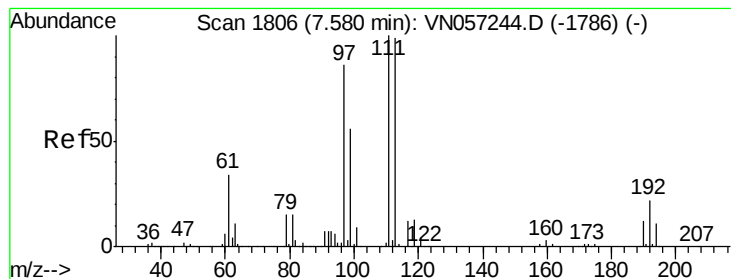
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#35

Dibromofluoromethane

Concen: 148.893 ug/l

RT: 7.58 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:113 Resp: 1646401

Ion Ratio Lower Upper

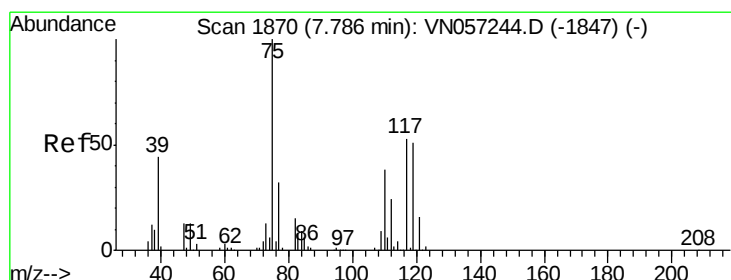
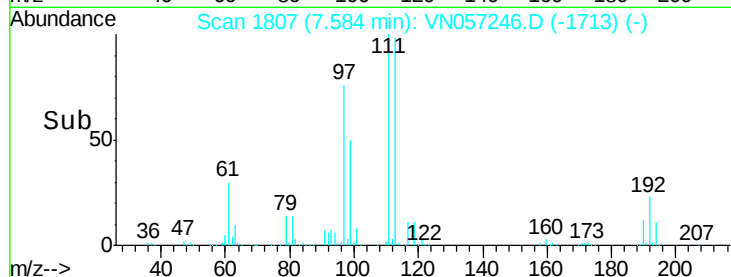
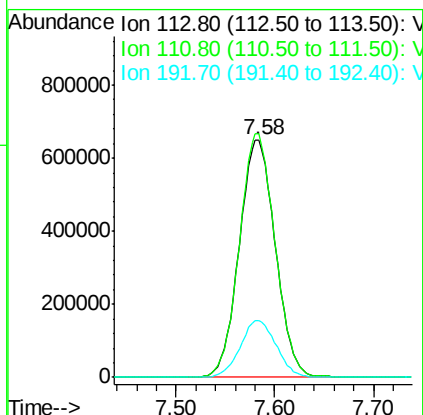
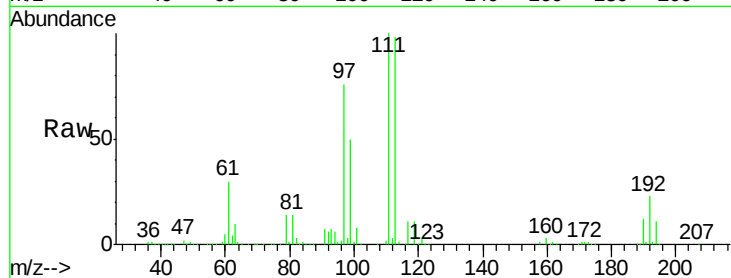
113 100

111 101.4 81.4 122.2

192 23.8 18.8 28.2

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#36

1,1-Dichloropropene

Concen: 142.589 ug/l

RT: 7.79 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

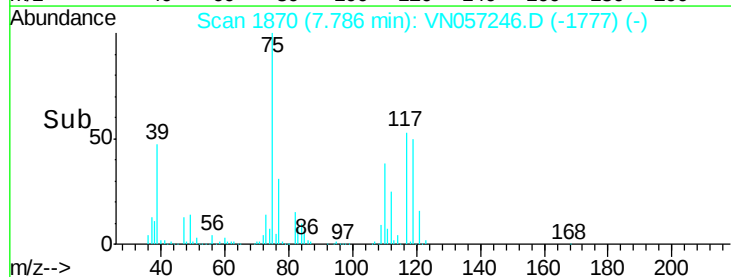
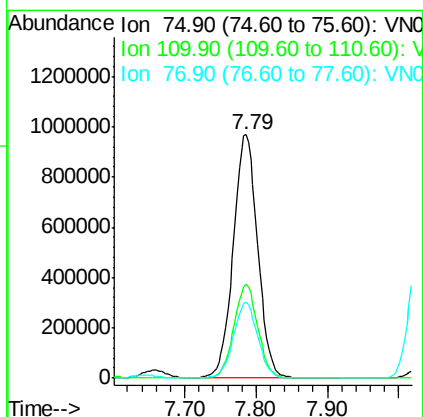
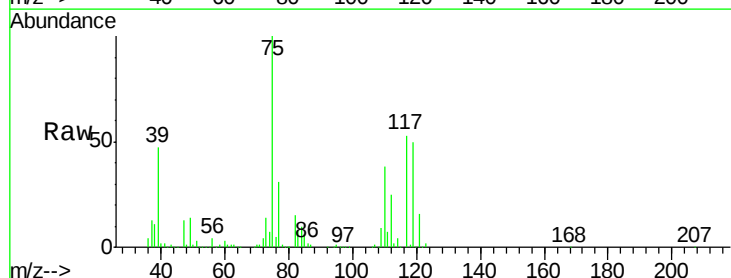
Tgt Ion: 75 Resp: 2309968

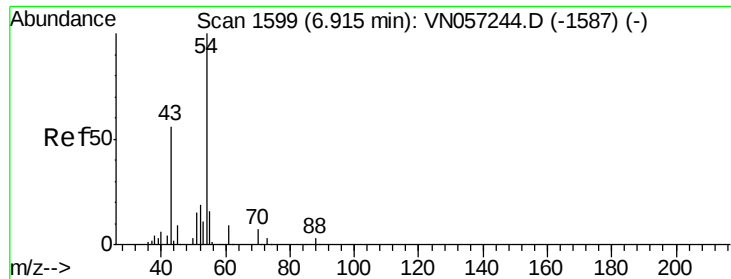
Ion Ratio Lower Upper

75 100

110 37.8 19.1 57.1

77 31.1 25.2 37.8





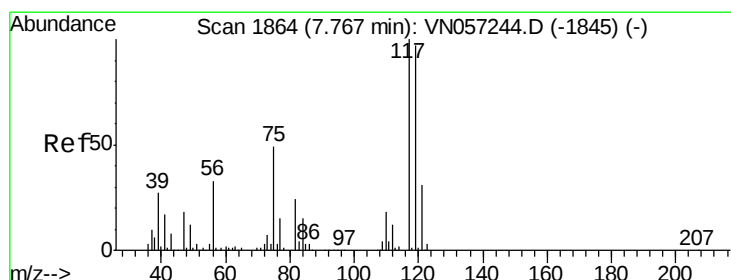
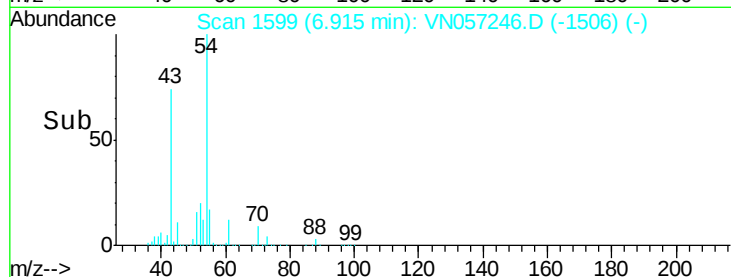
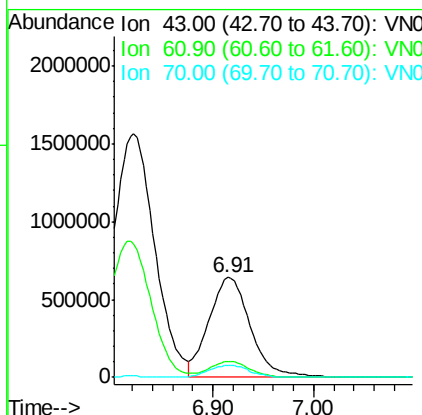
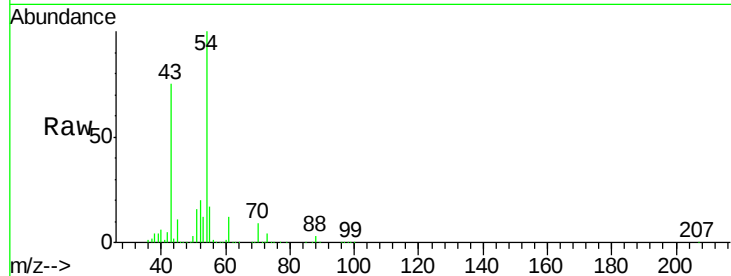
#37
Ethyl Acetate
Concen: 118.508 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 1814456
Ion Ratio Lower Upper
43 100
61 15.4 12.7 19.1
70 11.9 9.0 13.4

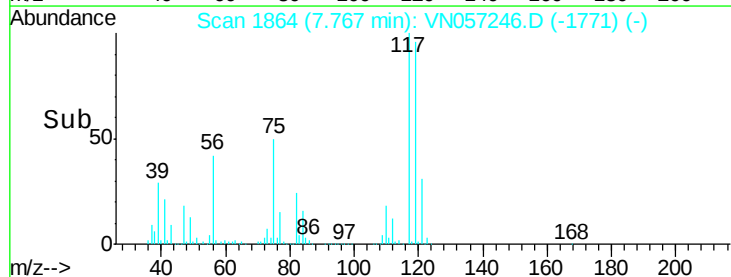
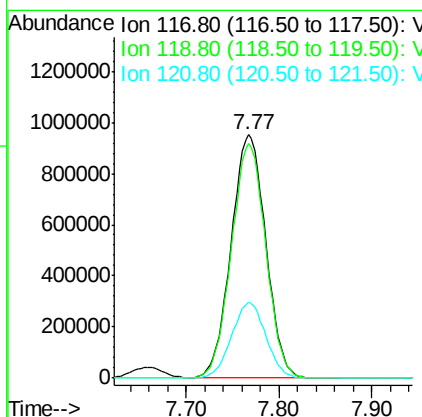
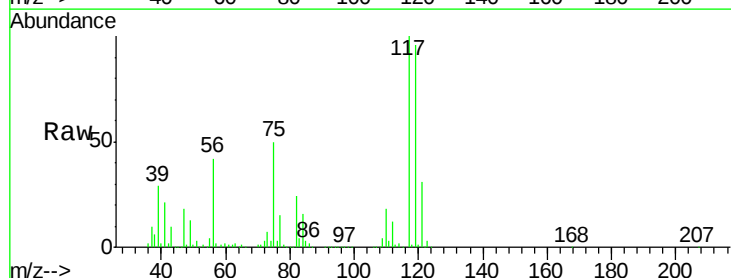
Manual Integrations
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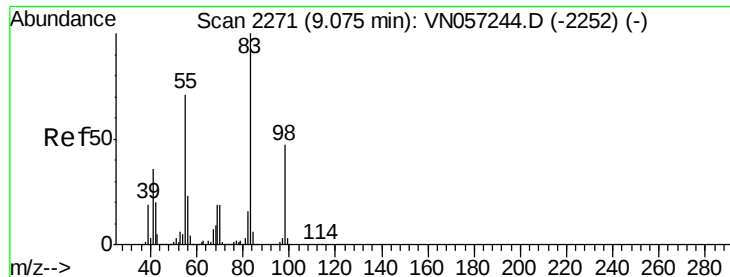
MMDadoda
8/16/2019 8:58:22 AM



#38
Carbon Tetrachloride
Concen: 159.109 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 117 Resp: 2460767
Ion Ratio Lower Upper
117 100
119 96.2 77.8 116.6
121 31.0 24.9 37.3





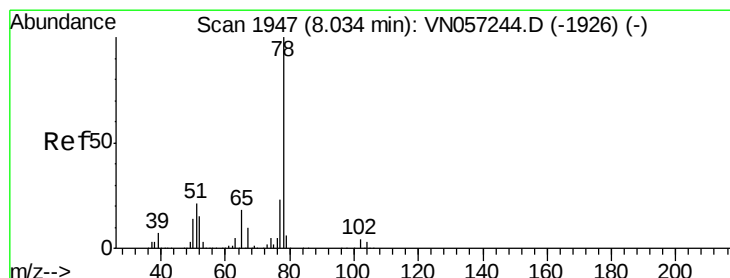
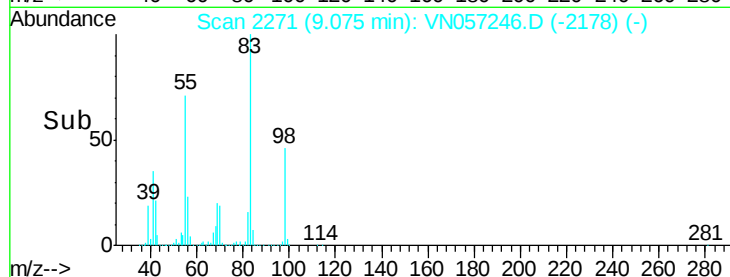
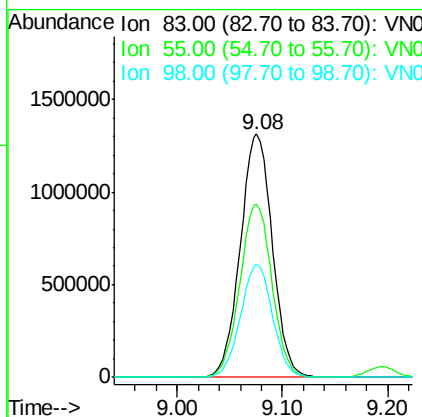
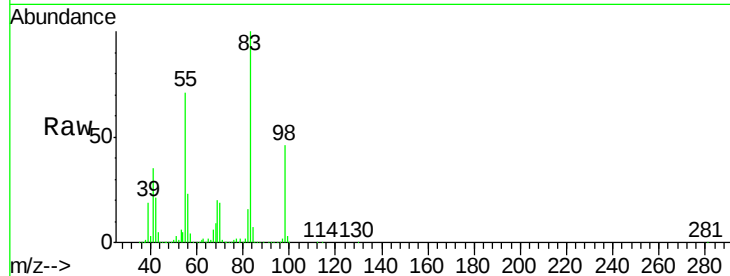
#39
Methylvlcyclohexane
Concen: 139.412 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 2769703
Ion Ratio Lower Upper
83 100
55 71.2 57.0 85.4
98 46.3 37.2 55.8

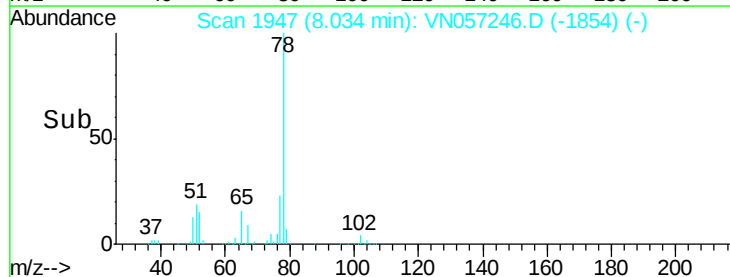
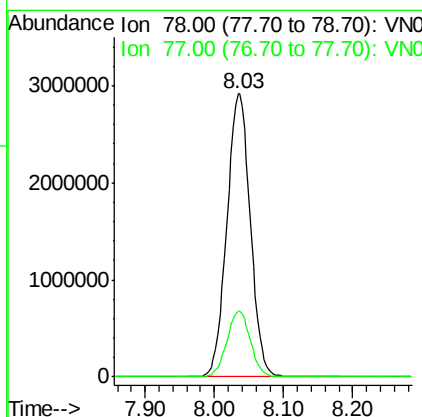
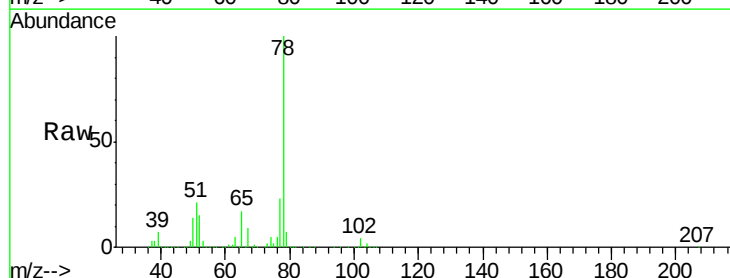
Manual Integrations
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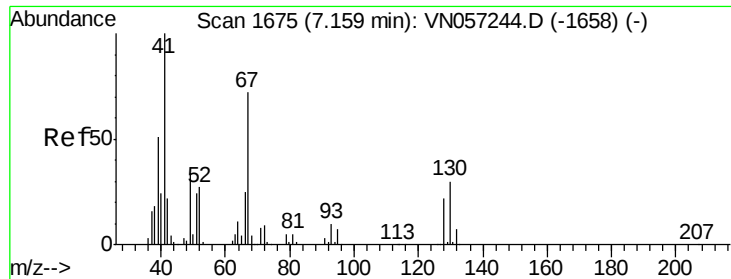
MMDadoda
8/16/2019 8:58:22 AM



#40
Benzene
Concen: 139.369 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 78 Resp: 6886003
Ion Ratio Lower Upper
78 100
77 23.2 18.2 27.4





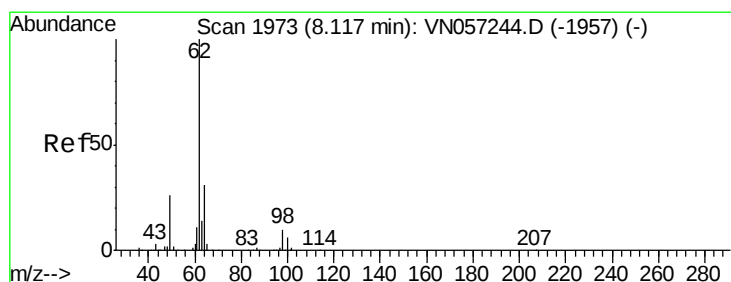
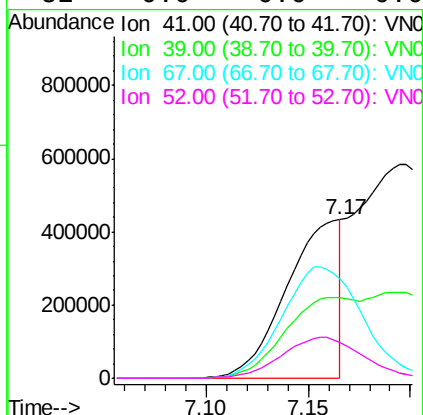
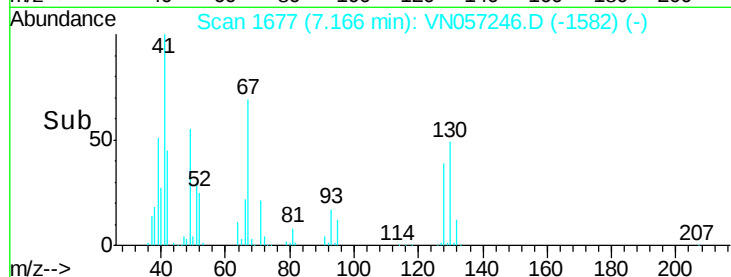
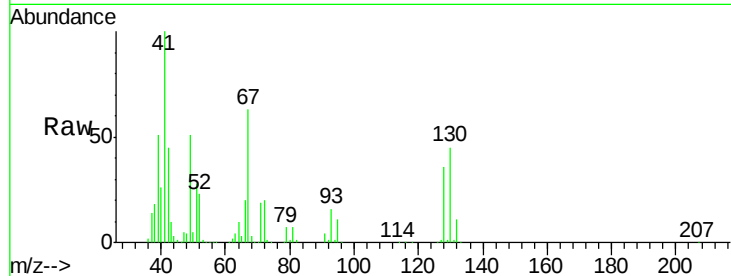
#41
Methacrylonitrile
Concen: 120.360 ug/l m
RT: 7.17 min Scan# 1677
Delta R.T. 0.01 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	41	Resp	801148
Ion Ratio	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

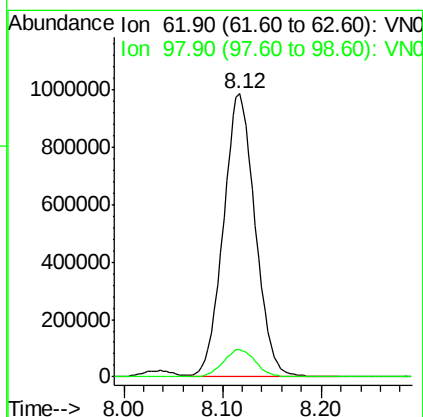
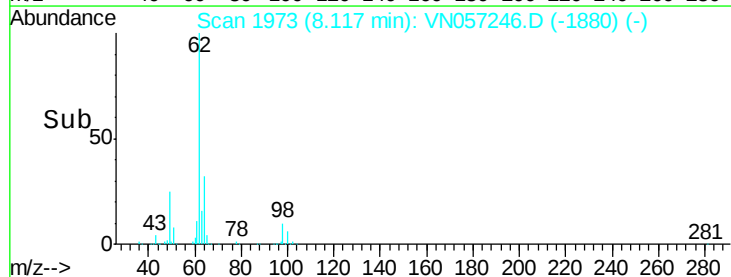
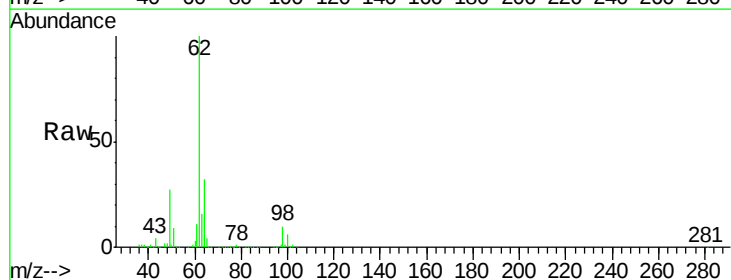
Manual Integrations
APPROVED

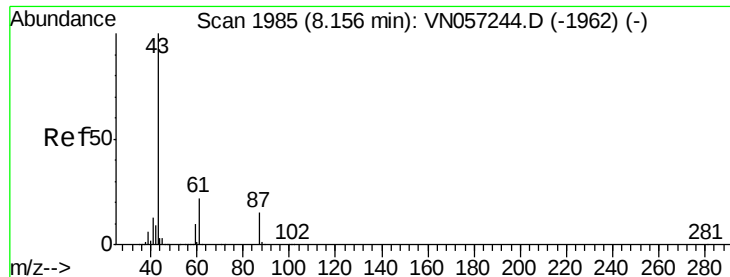
MMDadoda
8/16/2019 8:58:22 AM



#42
1,2-Dichloroethane
Concen: 141.110 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion	62	Resp	2214124
Ion Ratio	Lower	Upper	
62	100		
98	9.9	0.0	20.0





#43

Isopropyl Acetate

Concen: 130.113 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 3177947

Ion Ratio Lower Upper

43 100

61 29.5 23.5 35.3

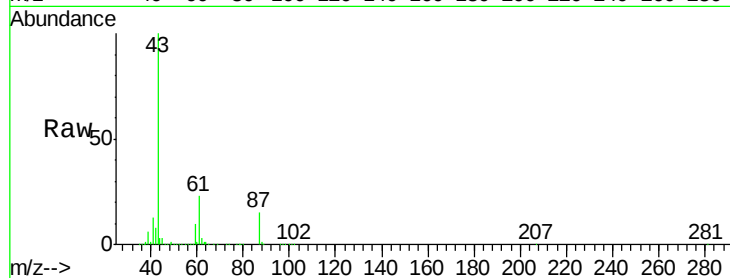
87 15.1 12.1 18.1

Manual Integrations

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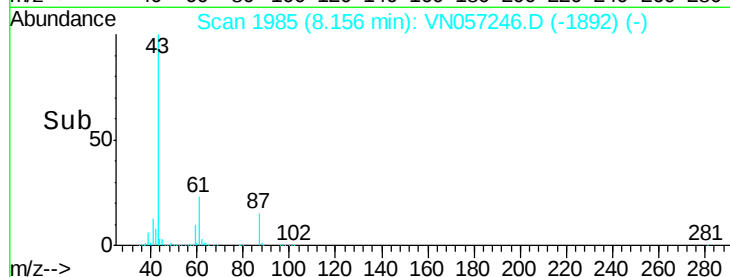


Abundance Ion 43.00 (42.70 to 43.70): VN057246.D (-1962) (-)

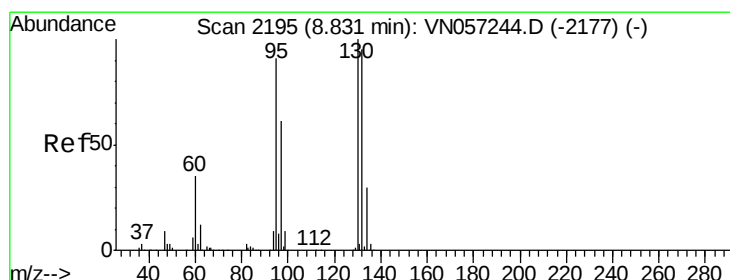
Ion 61.00 (60.70 to 61.70): VN057246.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN057246.D (-1962) (-)

Time-->



Time-->



#44

Trichloroethene

Concen: 146.240 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VN057246.D

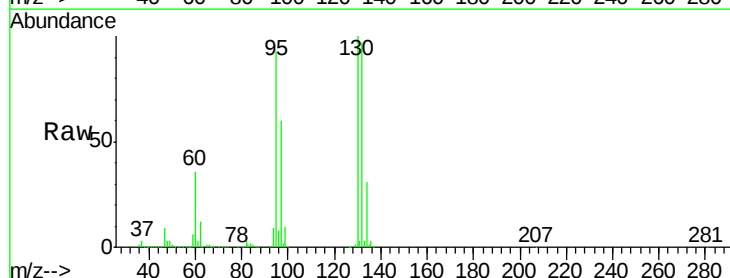
Acq: 13 Aug 2019 13:28

Tgt Ion:130 Resp: 1986934

Ion Ratio Lower Upper

130 100

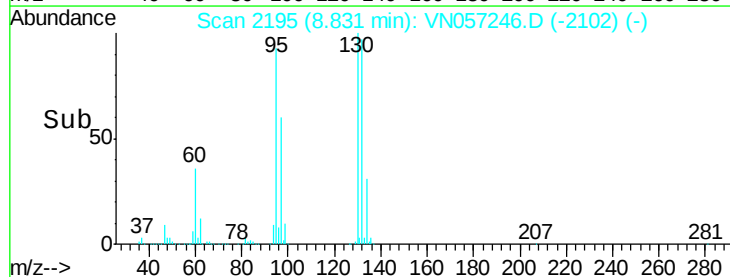
95 93.1 0.0 181.8



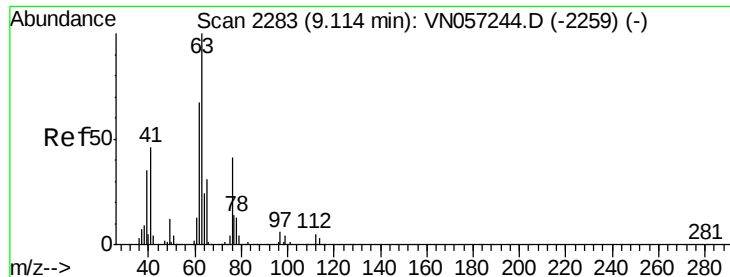
Abundance Ion 129.80 (129.50 to 130.50): VN057246.D (-2102) (-)

Ion 94.90 (94.60 to 95.60): VN057246.D (-2102) (-)

Time-->



Time-->



#45

1,2-Dichloropropane

Concen: 135.563 ug/l

RT: 9.11 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 1764308

Ion Ratio Lower Upper

63 100

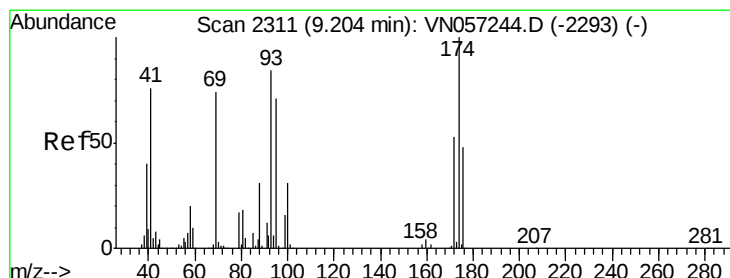
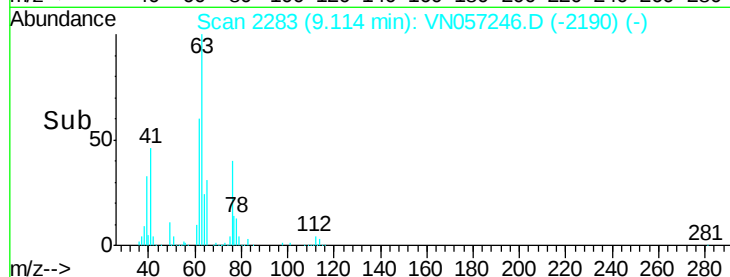
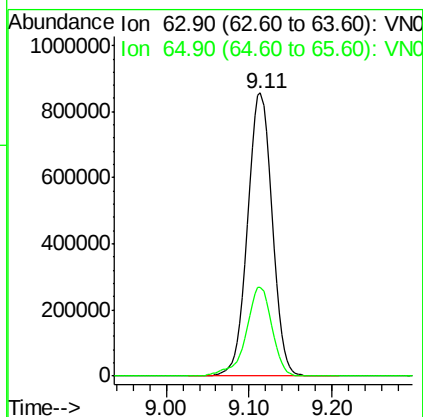
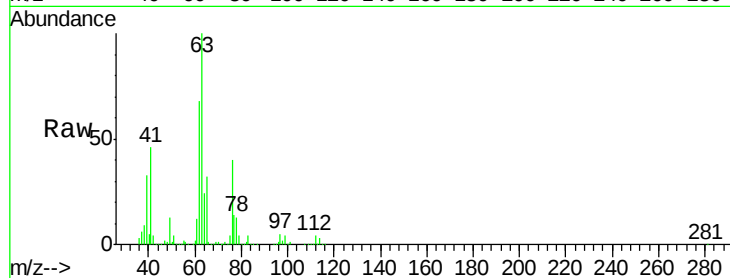
65 31.6 25.0 37.4

Manual Integrations

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#46

Dibromomethane

Concen: 143.131 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

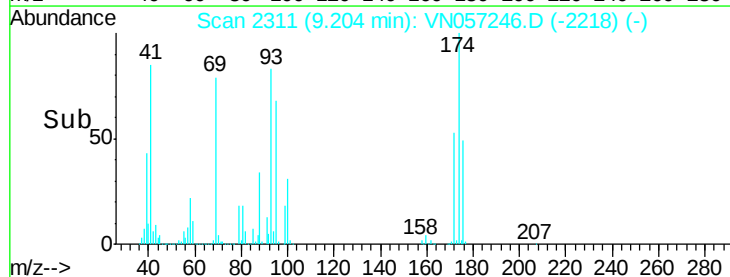
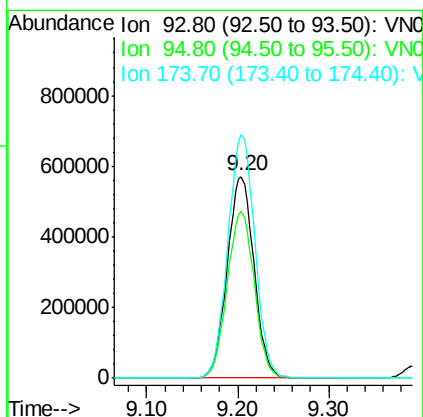
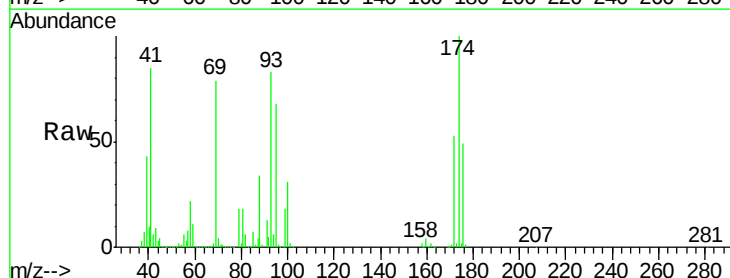
Tgt Ion: 93 Resp: 1167926

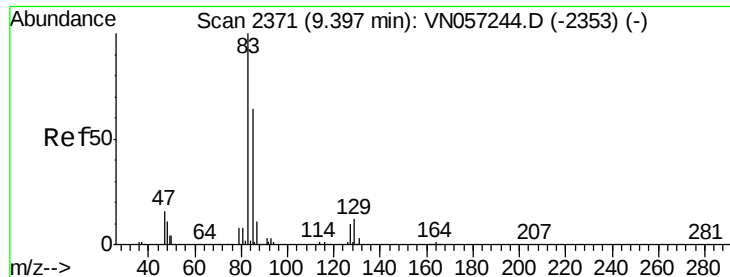
Ion Ratio Lower Upper

93 100

95 83.6 67.0 100.4

174 121.7 96.2 144.2





#47

Bromodichloromethane

Concen: 153.556 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 2398271

Ion Ratio Lower Upper

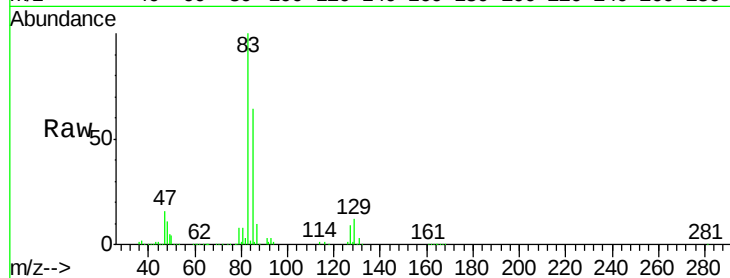
83 100

85 64.1 51.4 77.0

127 9.2 7.7 11.5

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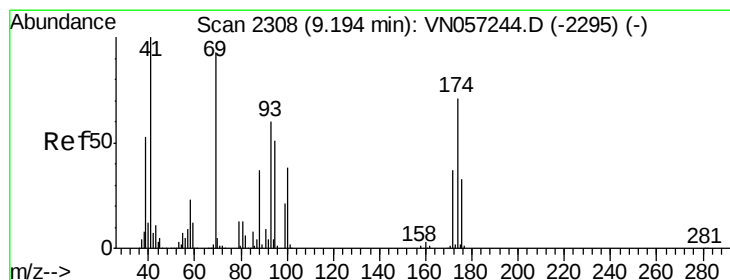
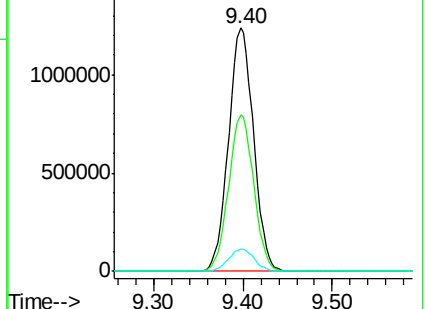
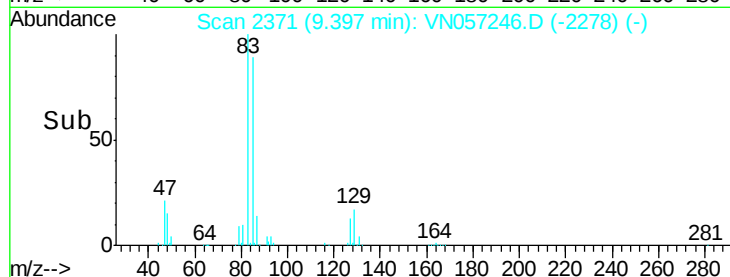
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Abundance Ion 82.90 (82.60 to 83.60): VN057246.D (-2278) (-)

Ion 84.90 (84.60 to 85.60): VN057246.D (-2278) (-)

Ion 126.80 (126.50 to 127.50): VN057246.D (-2278) (-)



#48

Methyl methacrylate

Concen: 128.512 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

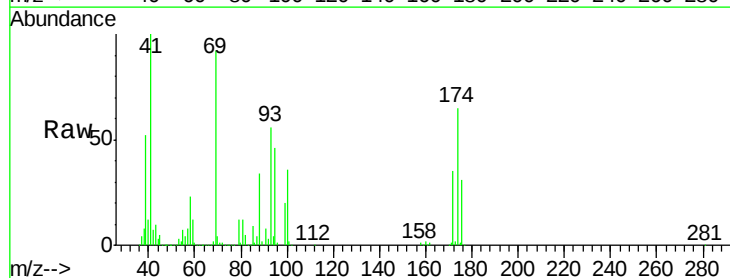
Tgt Ion: 41 Resp: 1508381

Ion Ratio Lower Upper

41 100

69 95.3 75.7 113.5

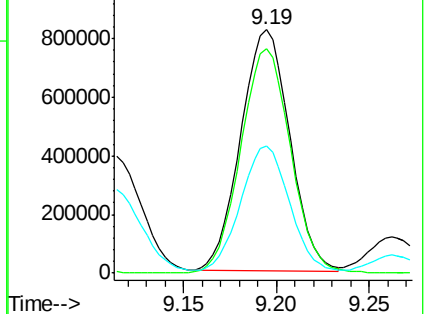
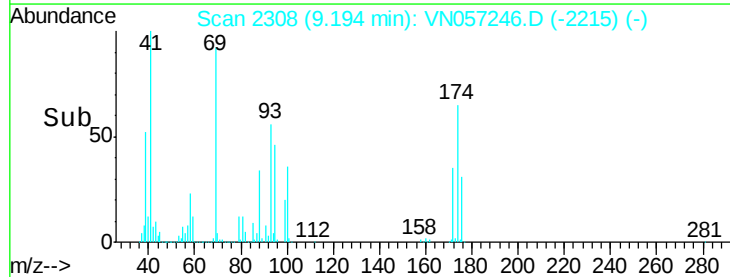
39 53.2 43.3 64.9

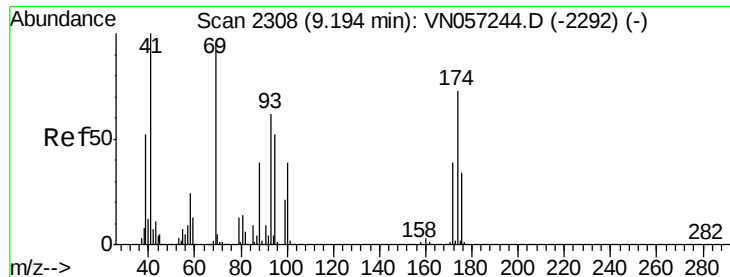


Abundance Ion 41.00 (40.70 to 41.70): VN057246.D (-2215) (-)

Ion 69.00 (68.70 to 69.70): VN057246.D (-2215) (-)

Ion 39.00 (38.70 to 39.70): VN057246.D (-2215) (-)





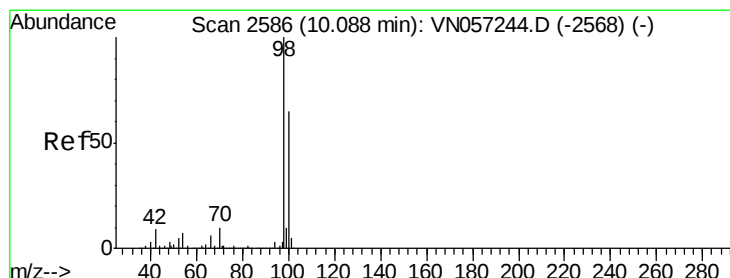
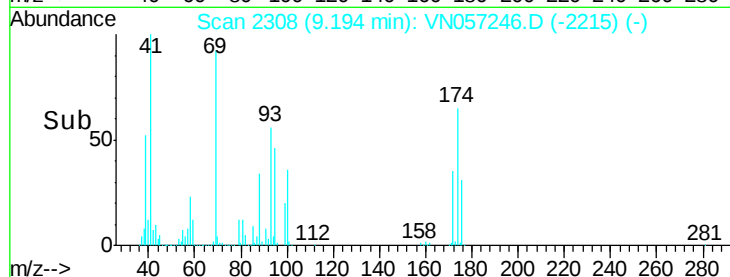
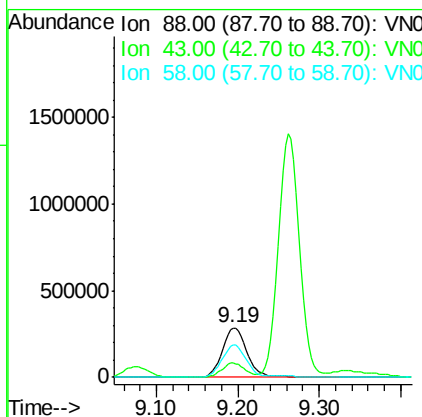
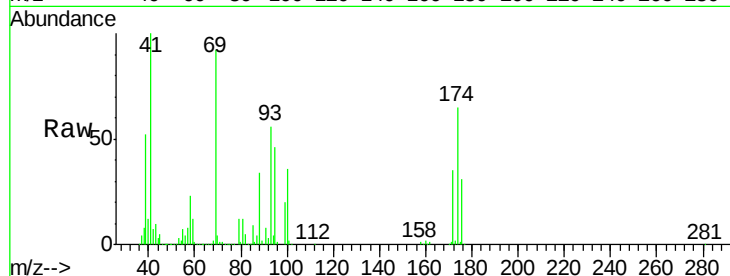
#49
1,4-Dioxane
Concen: 2497.553 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	88	Resp	611072
Ion	Ratio	Lower	Upper
88	100		
43	26.7	20.7	31.1
58	64.3	52.0	78.0

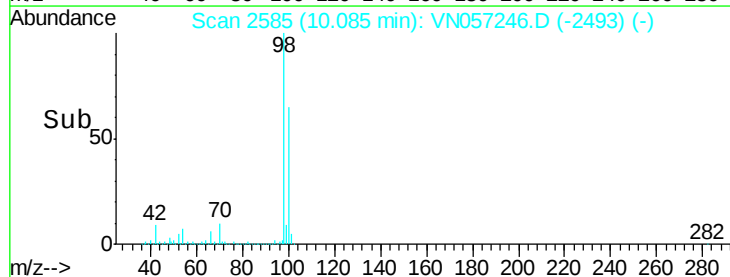
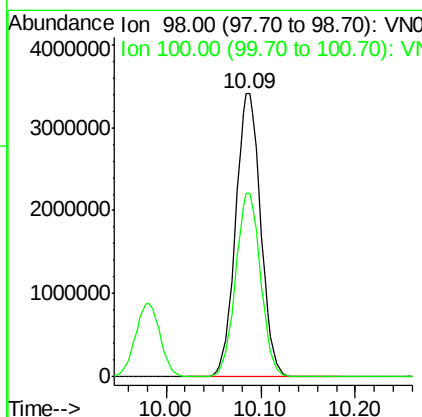
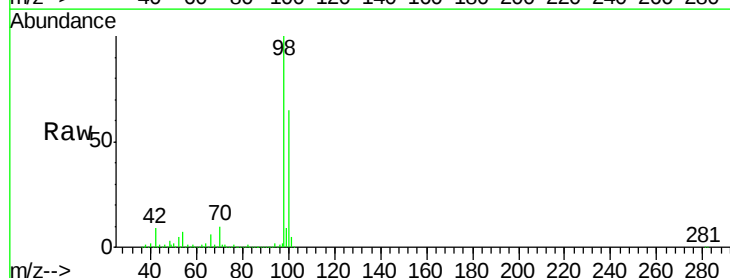
Manual Integrations
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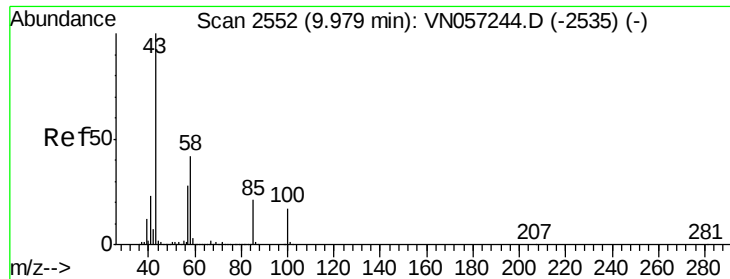
MMDadoda
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#50
Toluene-d8
Concen: 147.057 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion	98	Resp	6252577
Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.6





#51

4-Methyl-2-Pentanone

Concen: 592.118 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 9235439

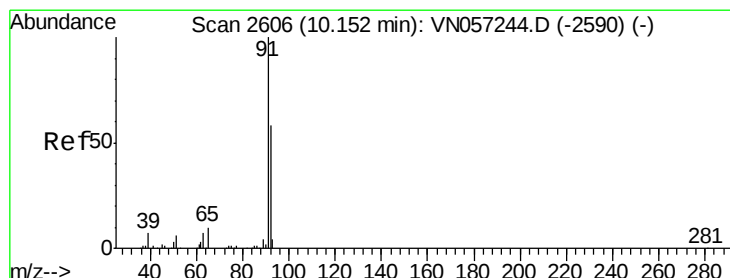
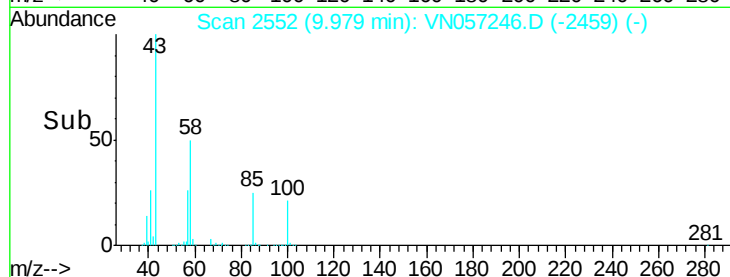
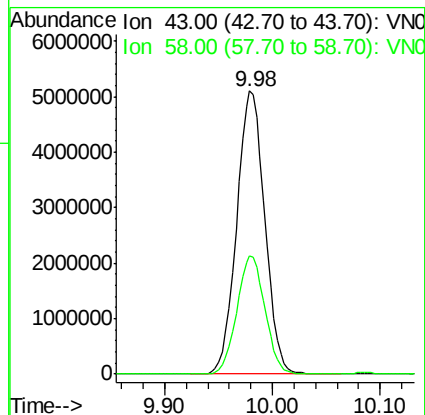
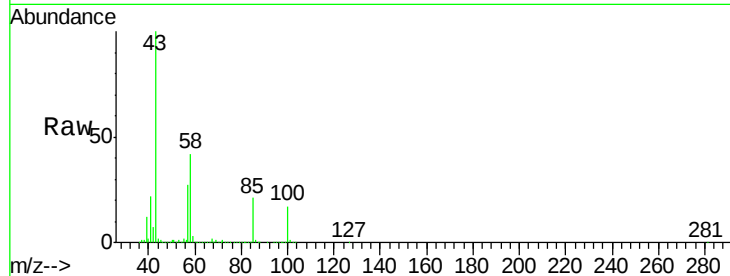
Ion Ratio Lower Upper

43 100

58 41.8 33.7 50.5

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#52

Toluene

Concen: 148.604 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057246.D

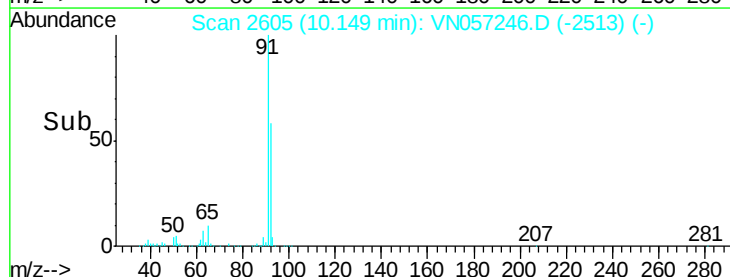
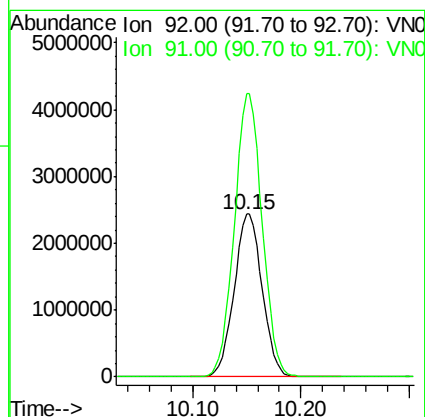
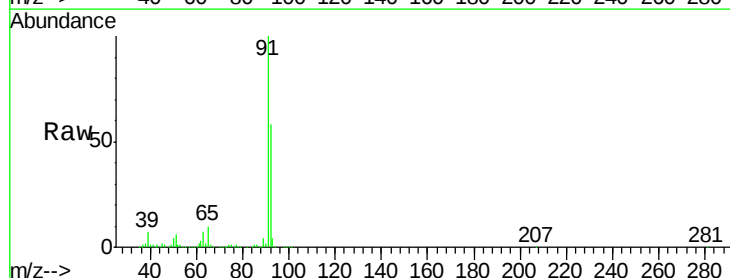
Acq: 13 Aug 2019 13:28

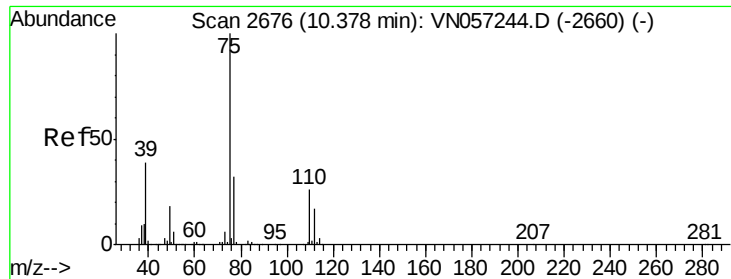
Tgt Ion: 92 Resp: 4392059

Ion Ratio Lower Upper

92 100

91 173.4 138.2 207.2





#53

t-1,3-Dichloropropene

Concen: 163.671 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 75 Resp: 2671648

Ion Ratio Lower Upper

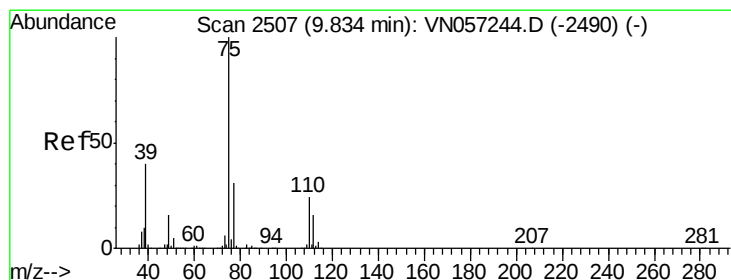
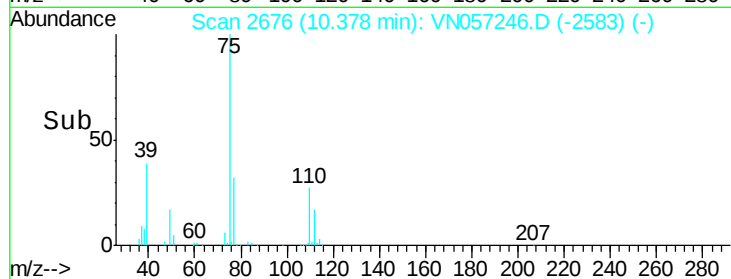
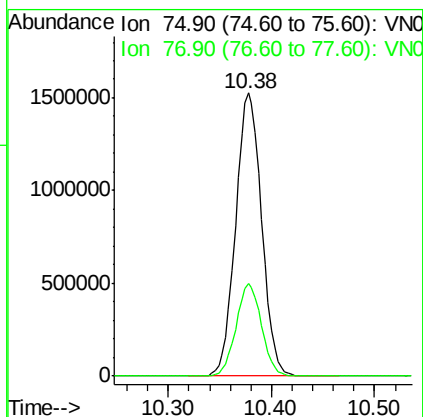
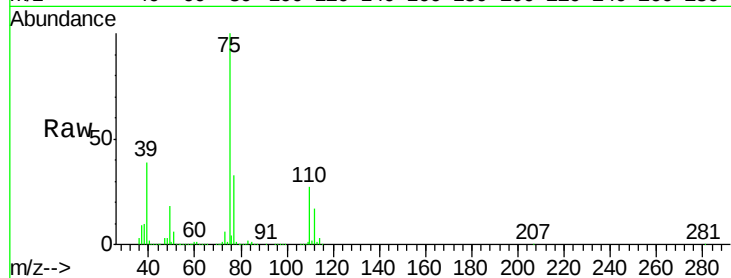
75 100

77 32.5 25.3 37.9

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 155.236 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

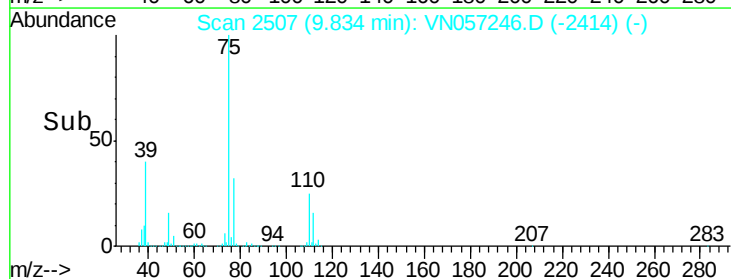
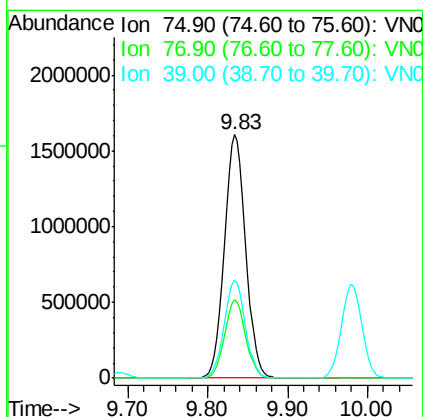
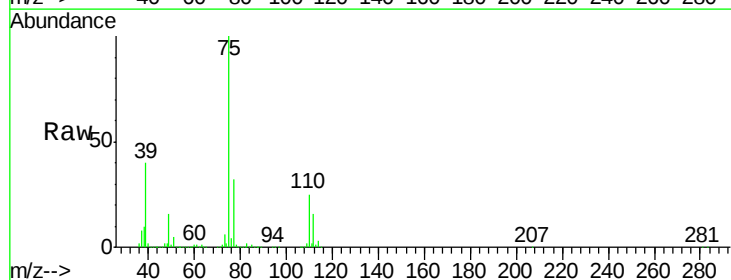
Tgt Ion: 75 Resp: 2928119

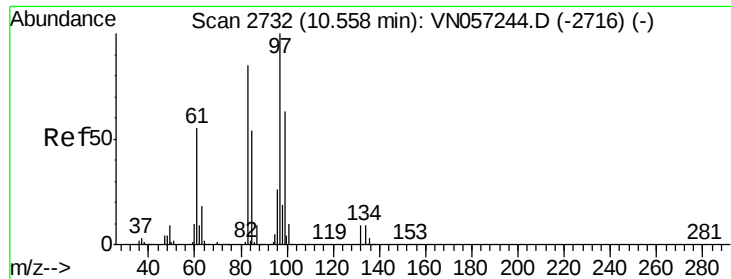
Ion Ratio Lower Upper

75 100

77 32.0 25.0 37.6

39 40.0 32.3 48.5





#55

1,1,2-Trichloroethane

Concen: 136.985 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 97 Resp: 1682793

Ion Ratio Lower Upper

97 100

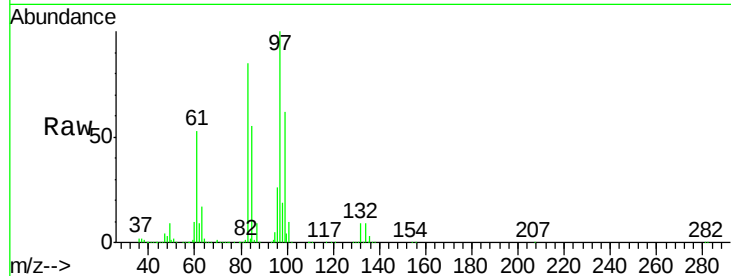
83 84.8 68.4 102.6

85 54.5 43.0 64.6

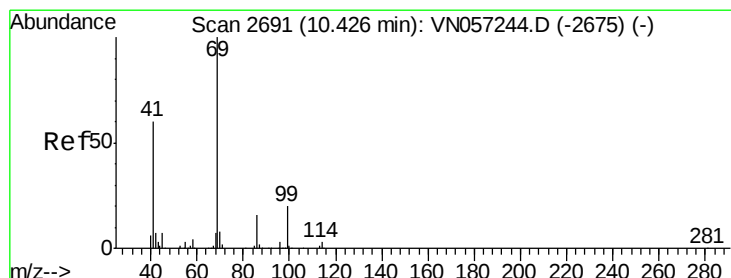
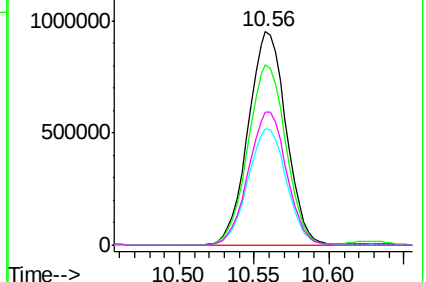
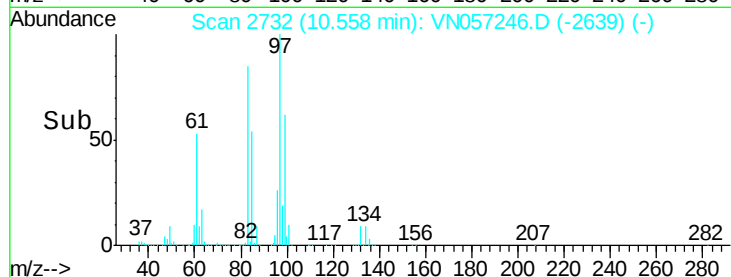
99 62.1 50.6 75.8

Manual Integrations
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Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 149.565 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

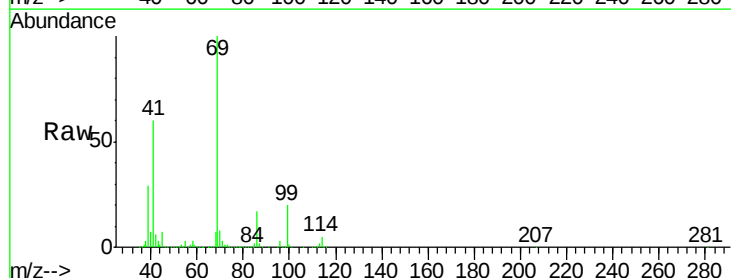
Tgt Ion: 69 Resp: 2613395

Ion Ratio Lower Upper

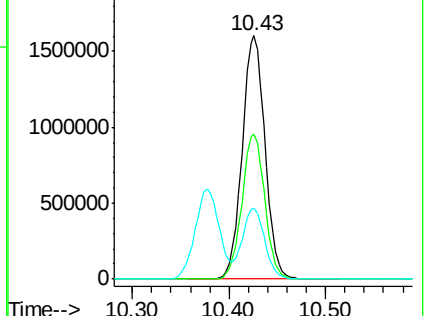
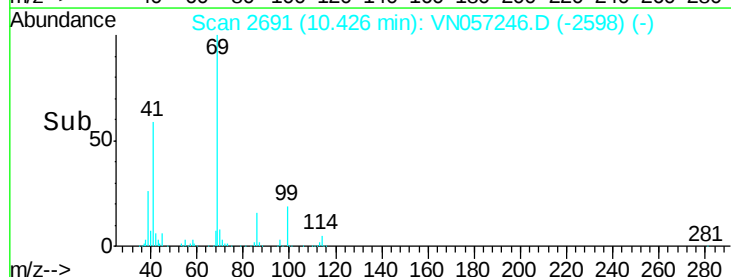
69 100

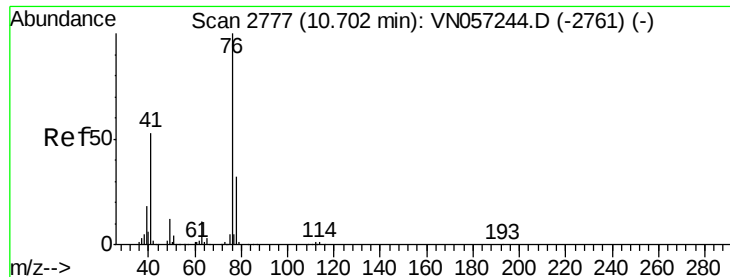
41 59.4 47.6 71.4

39 28.7 23.4 35.0



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 139.495 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 2795717

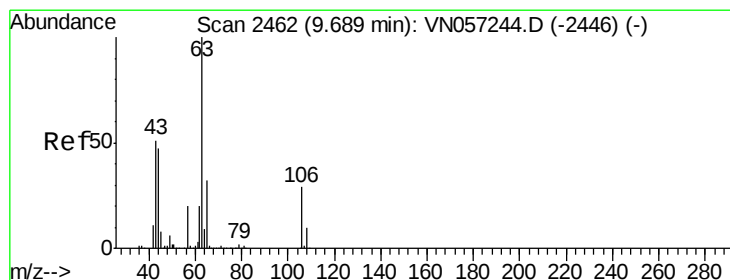
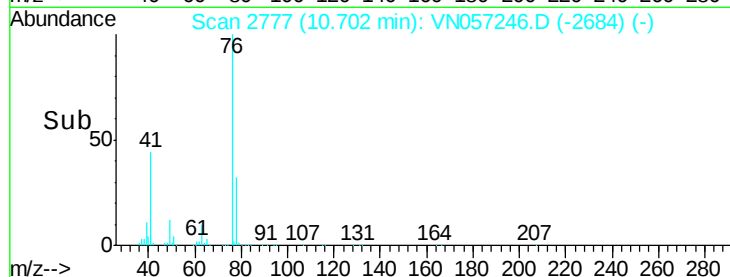
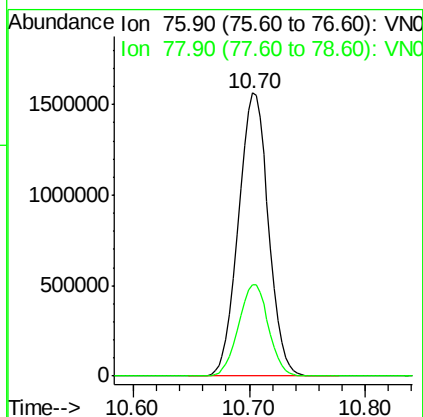
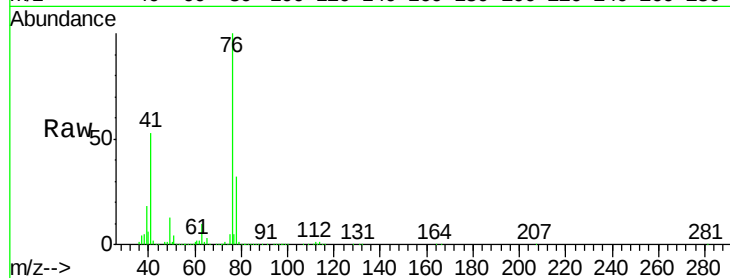
Ion Ratio Lower Upper

76 100

78 32.5 26.0 39.0

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#58

2-Chloroethyl Vinyl ether

Concen: 492.429 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057246.D

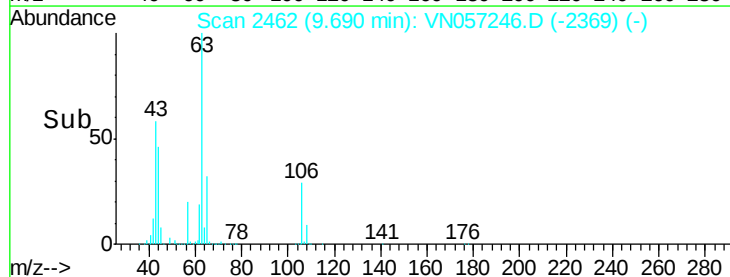
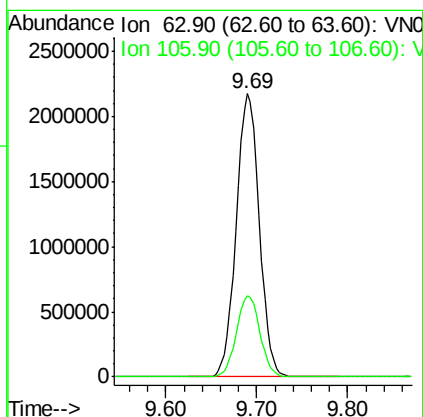
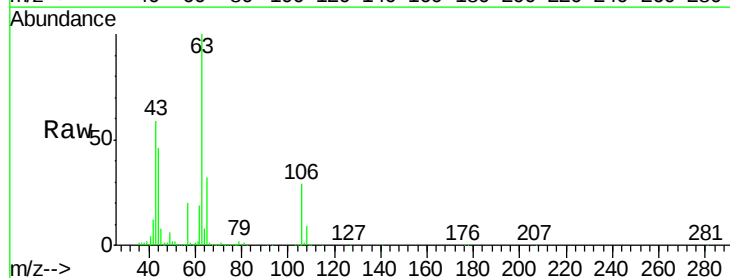
Acq: 13 Aug 2019 13:28

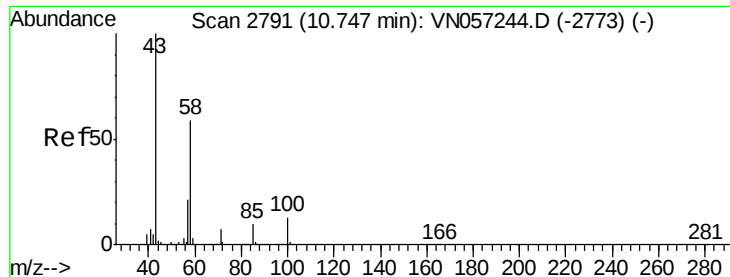
Tgt Ion: 63 Resp: 3815890

Ion Ratio Lower Upper

63 100

106 29.3 23.4 35.2





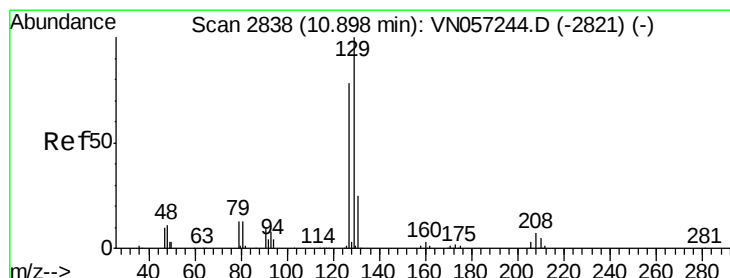
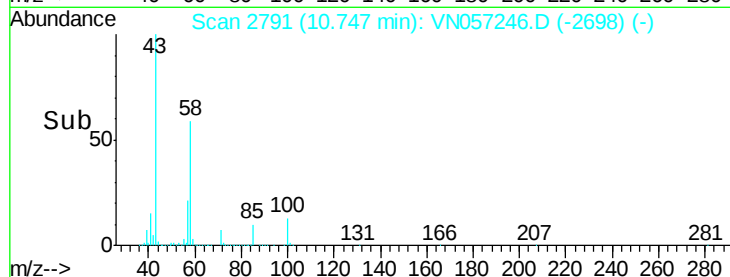
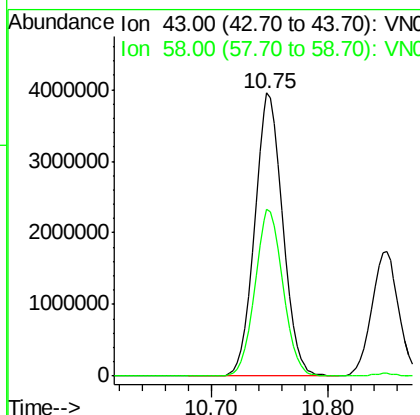
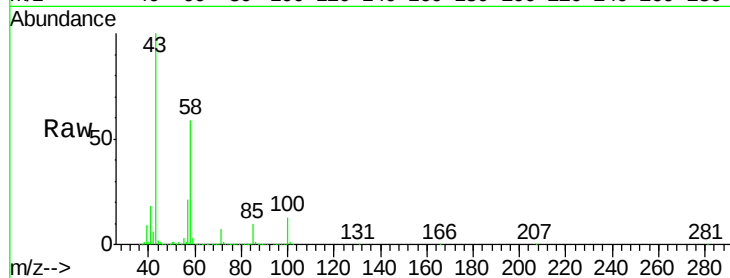
#59
2-Hexanone
Concen: 598.971 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 6672042
Ion Ratio Lower Upper
43 100
58 59.0 29.1 87.4

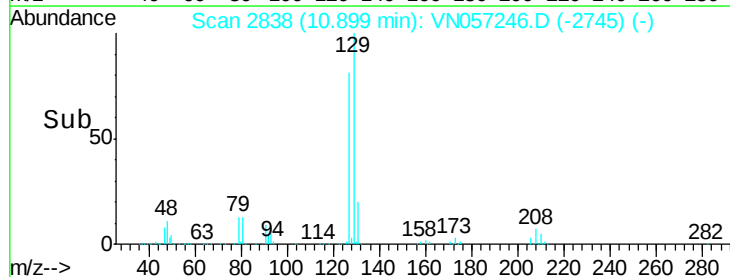
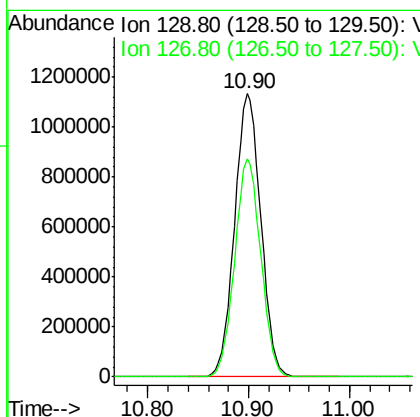
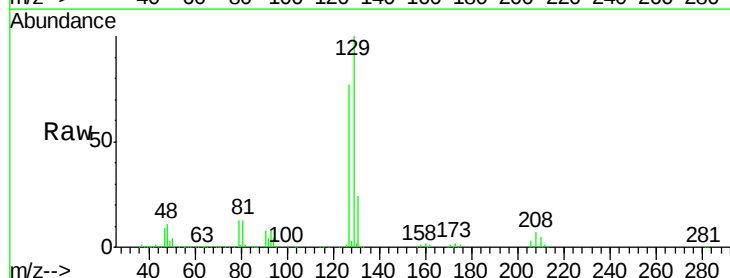
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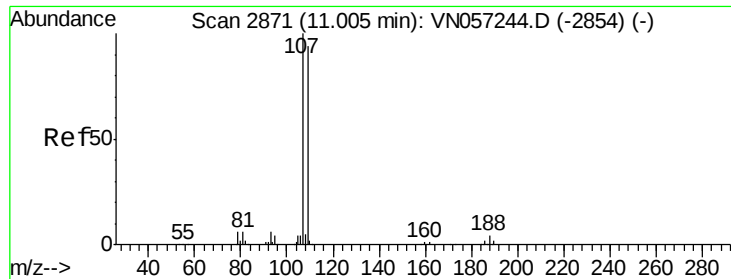
MMDadoda
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#60
Dibromochloromethane
Concen: 166.277 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 129 Resp: 2037782
Ion Ratio Lower Upper
129 100
127 76.8 38.9 116.6





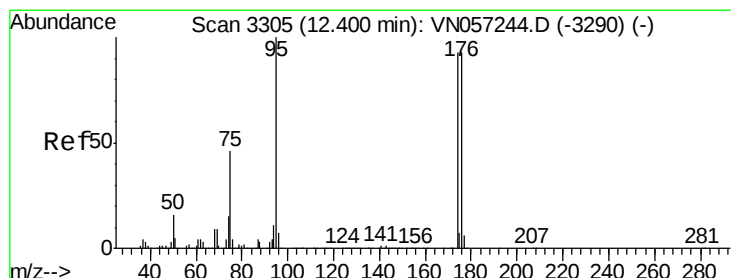
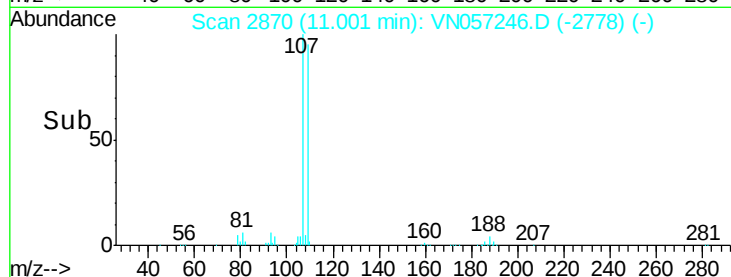
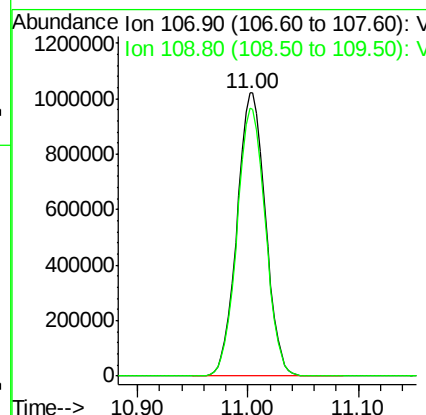
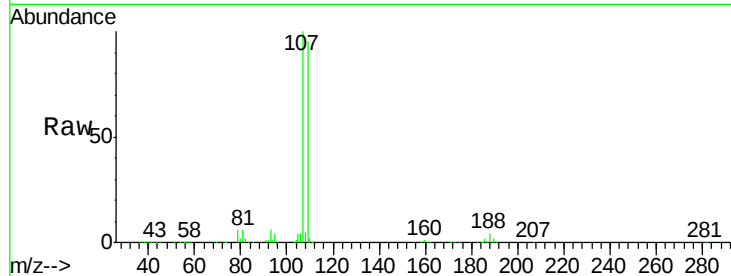
#61
 1,2-Dibromoethane
 Concen: 148.641 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:107 Resp: 1820570
 Ion Ratio Lower Upper
 107 100
 109 94.7 75.7 113.5

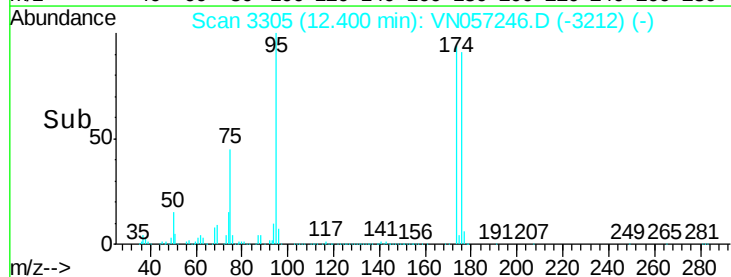
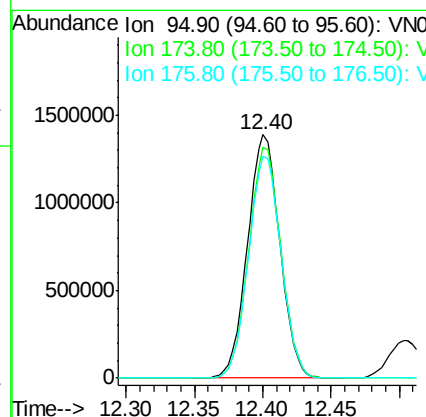
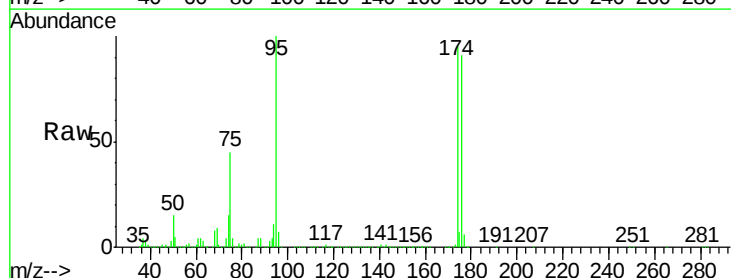
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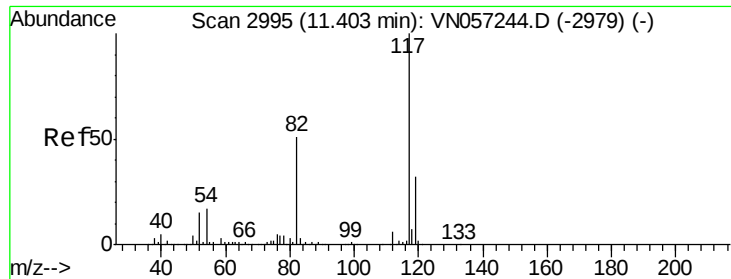
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 159.646 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Tgt Ion: 95 Resp: 2279958
 Ion Ratio Lower Upper
 95 100
 174 94.8 0.0 187.6
 176 91.8 0.0 185.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:117 Resp: 1610844

Ion Ratio Lower Upper

117 100

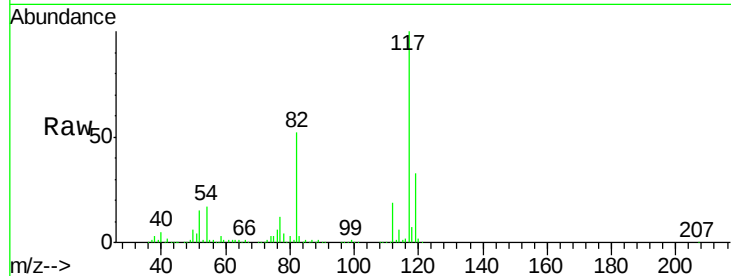
82 52.4 40.9 61.3

119 32.8 25.4 38.2

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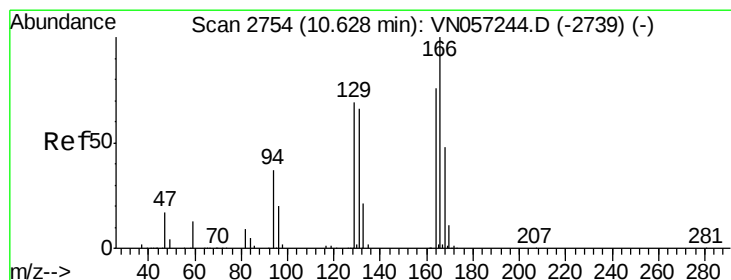
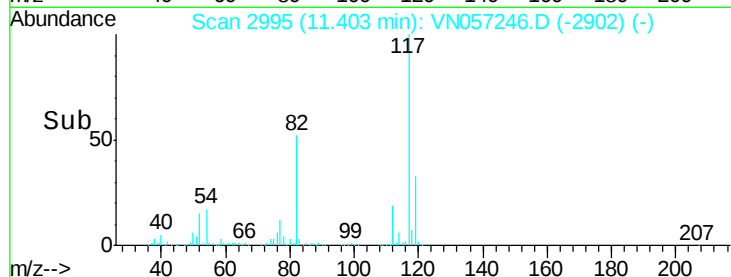
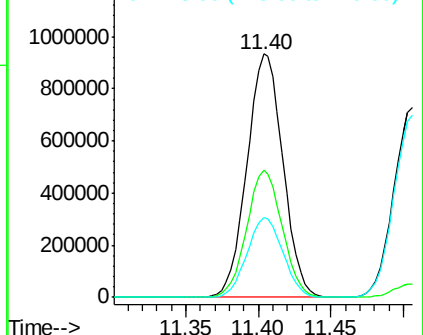


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 136.270 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Tgt Ion:164 Resp: 1902512

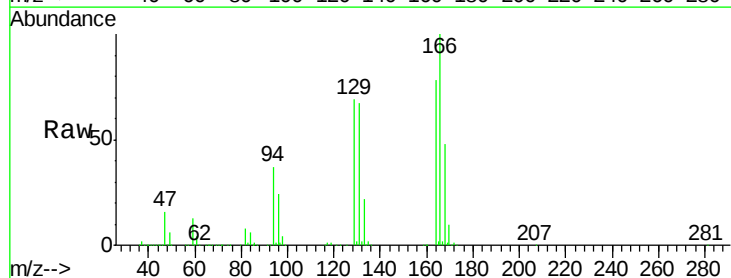
Ion Ratio Lower Upper

164 100

166 128.8 104.9 157.3

129 89.2 71.9 107.9

131 86.8 69.1 103.7



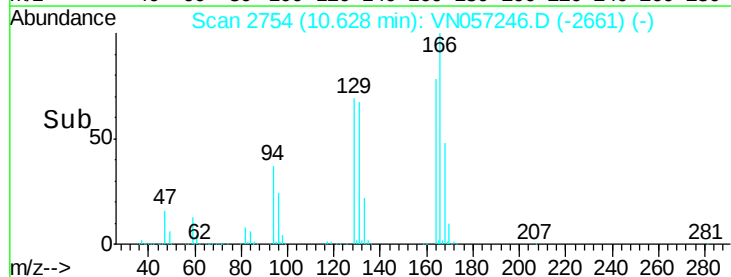
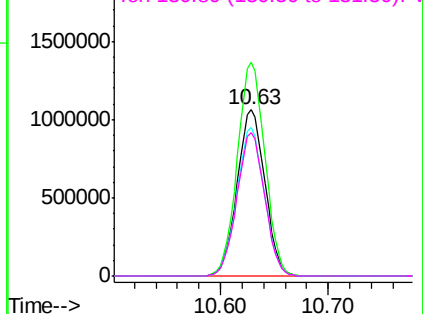
Abundance

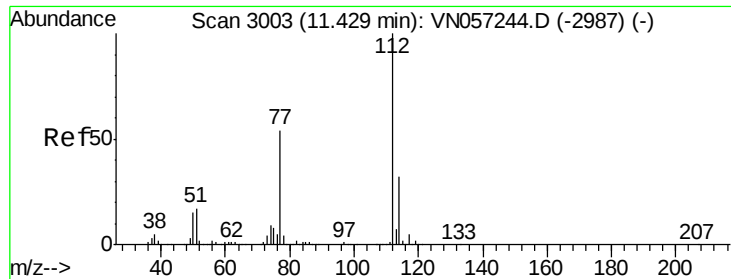
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





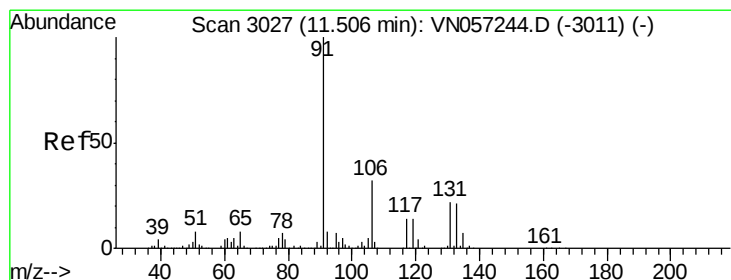
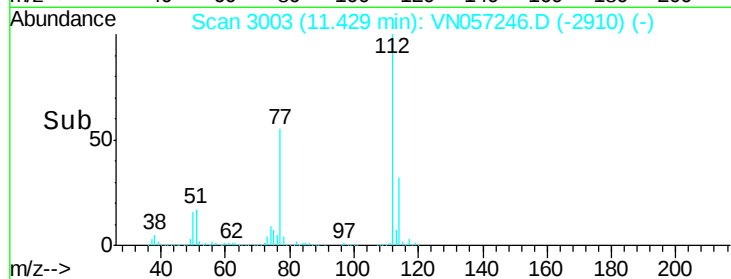
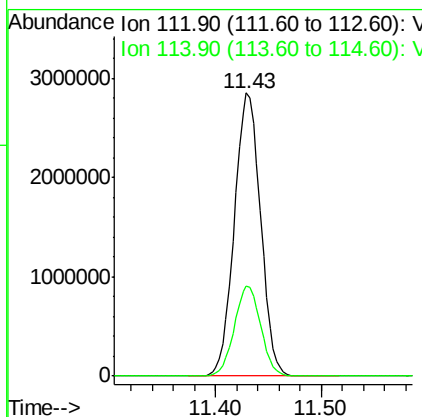
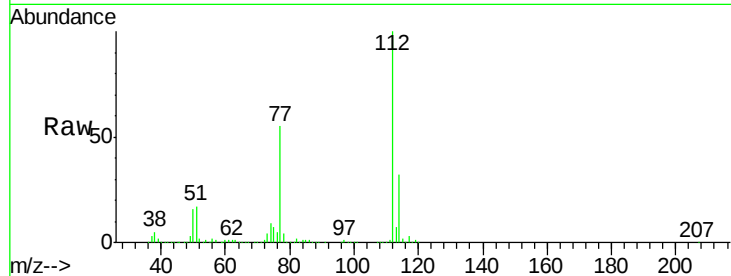
#65
Chlorobenzene
Concen: 148.433 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:112 Resp: 4904304
Ion Ratio Lower Upper
112 100
114 32.0 25.4 38.2

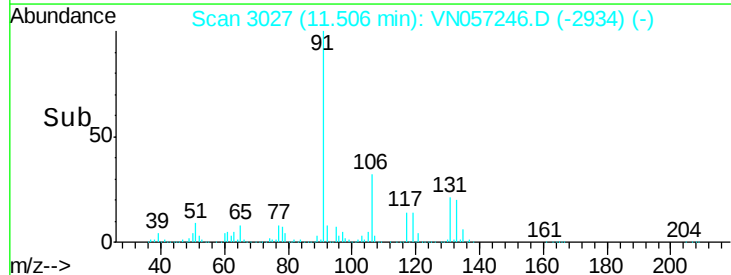
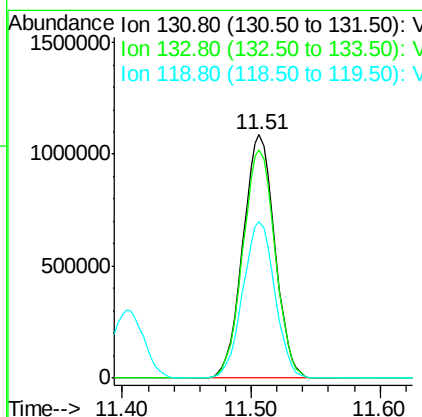
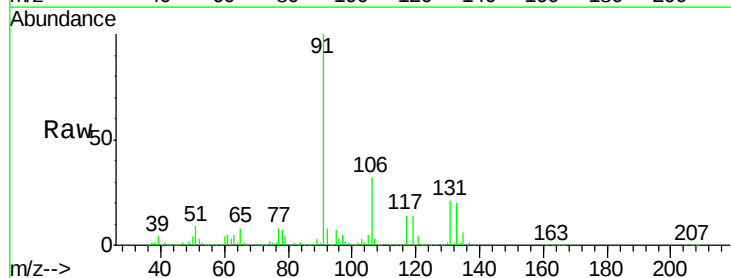
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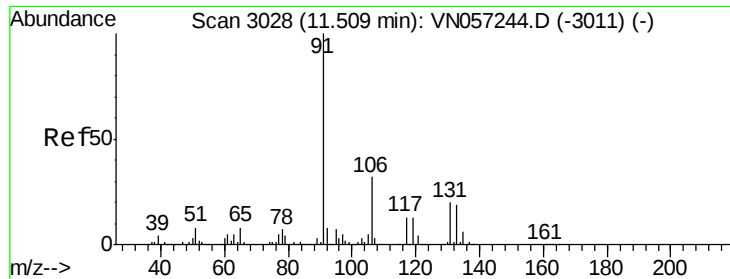
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#66
1,1,1,2-Tetrachloroethane
Concen: 152.675 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion:131 Resp: 1870058
Ion Ratio Lower Upper
131 100
133 95.2 46.9 140.7
119 64.6 32.3 96.8





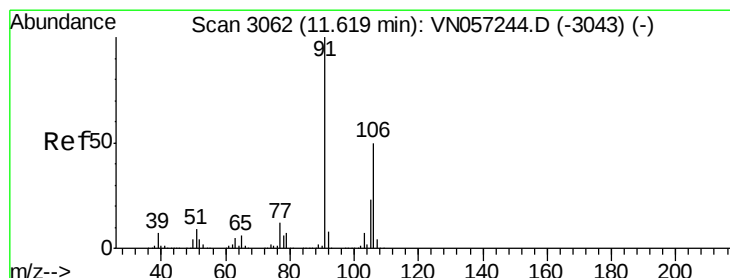
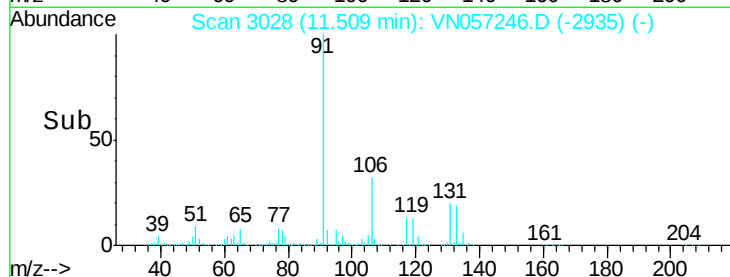
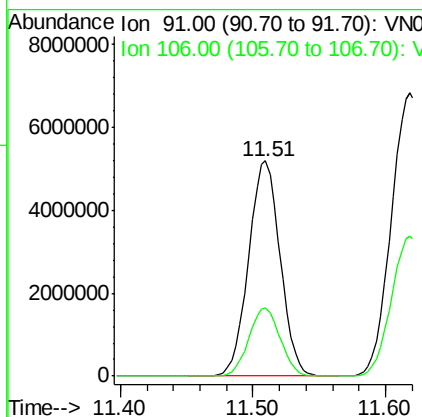
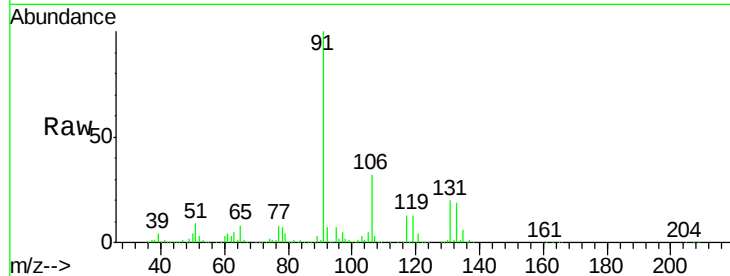
#67
Ethyl Benzene
Concen: 148.050 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 8557112
Ion Ratio Lower Upper
91 100
106 31.7 25.4 38.0

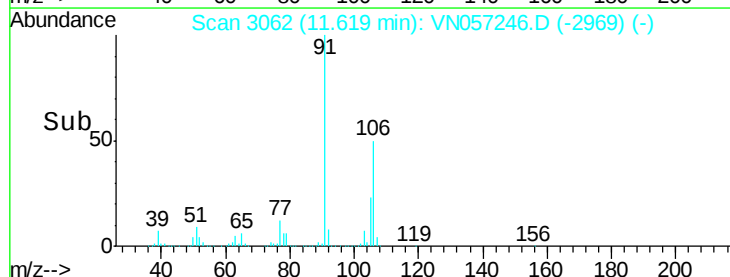
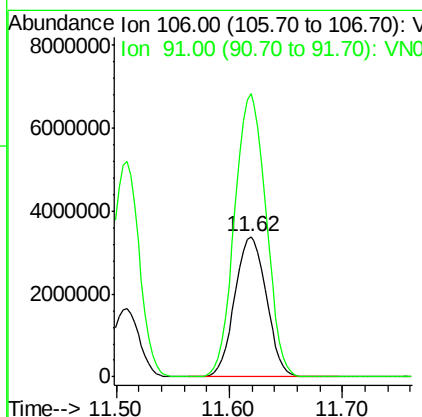
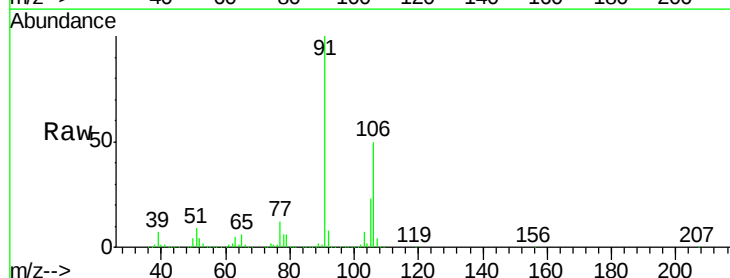
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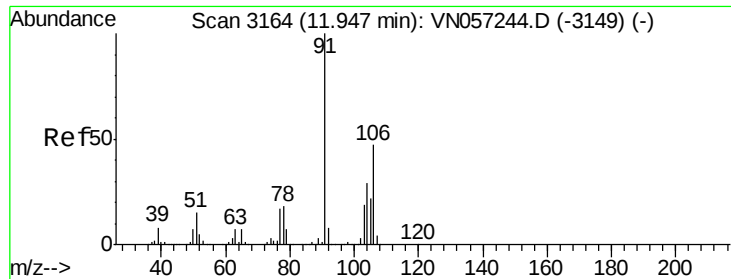
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#68
m/p-Xylenes
Concen: 304.529 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 106 Resp: 6573161
Ion Ratio Lower Upper
106 100
91 201.6 161.4 242.0





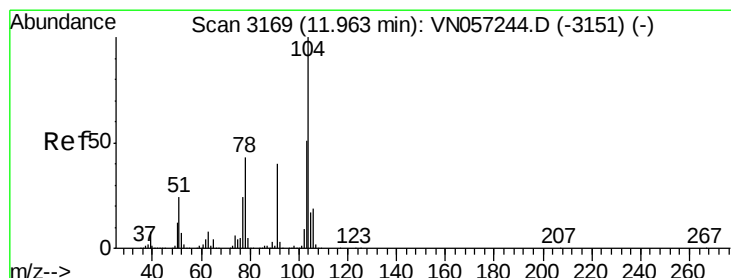
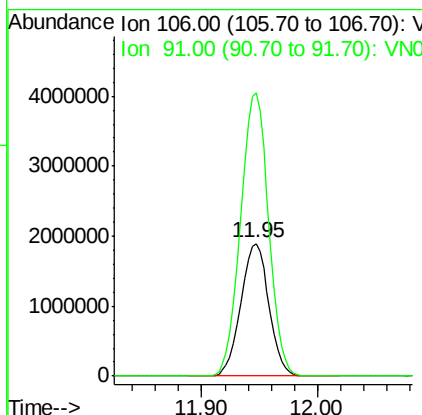
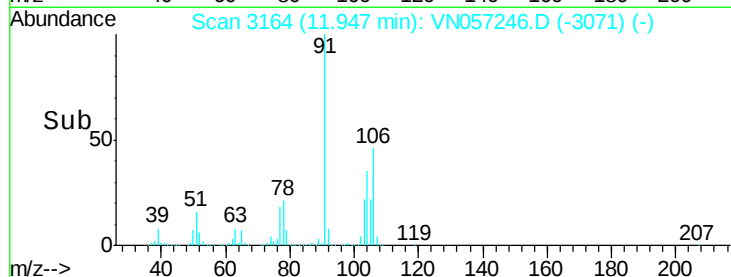
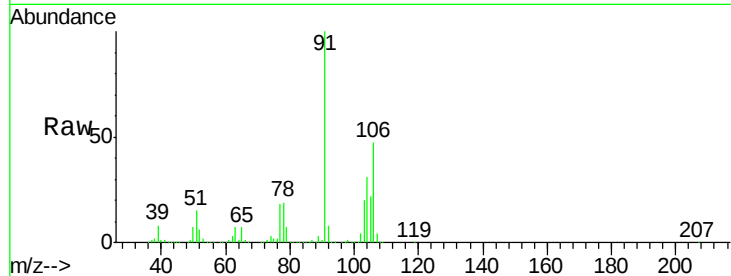
#69
o-Xylene
Concen: 149.716 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:106 Resp: 3176052
Ion Ratio Lower Upper
106 100
91 213.2 106.5 319.4

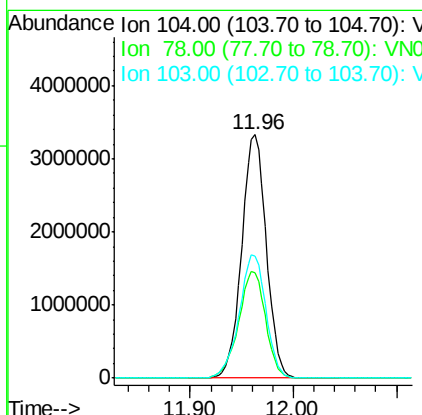
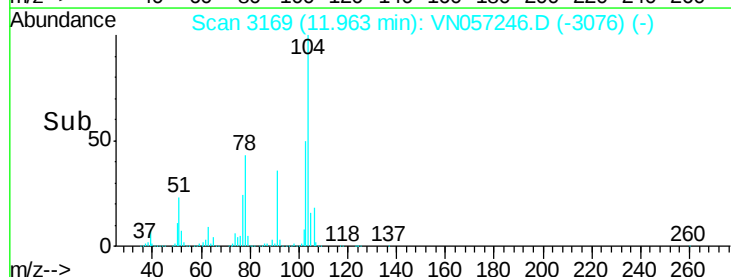
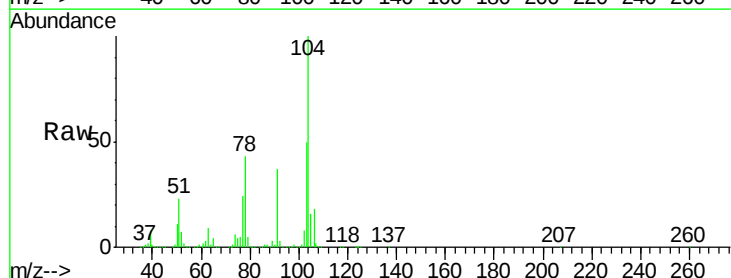
Manual Integrations
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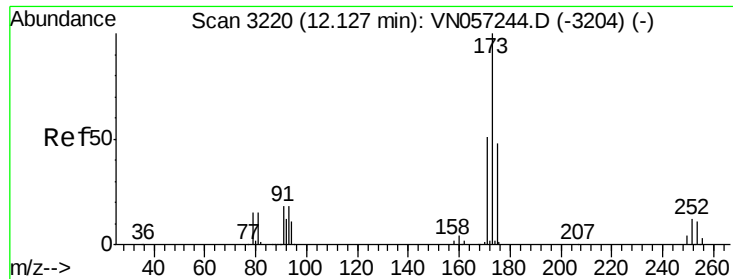
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#70
Styrene
Concen: 161.533 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion:104 Resp: 5521465
Ion Ratio Lower Upper
104 100
78 48.1 38.6 57.8
103 54.9 43.9 65.9





#71

Bromoform

Concen: 174.375 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 1623044

Ion Ratio Lower Upper

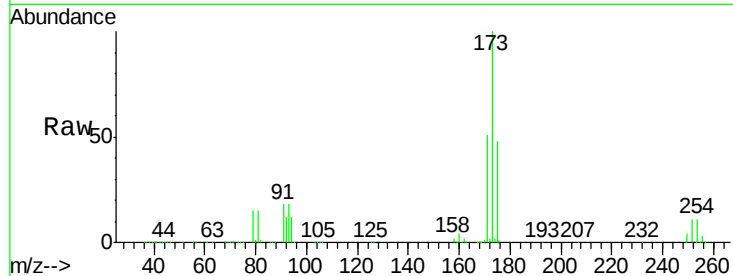
173 100

175 48.5 24.4 73.2

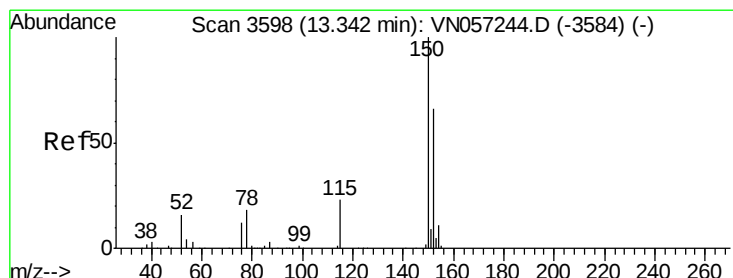
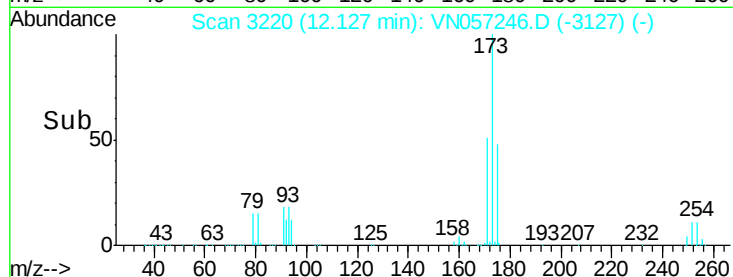
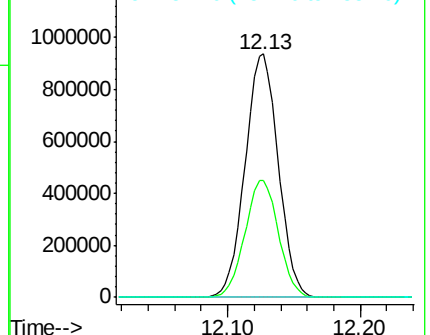
254 0.1 0.2 0.2#

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: VN057246.D

Acq: 13 Aug 2019 13:28

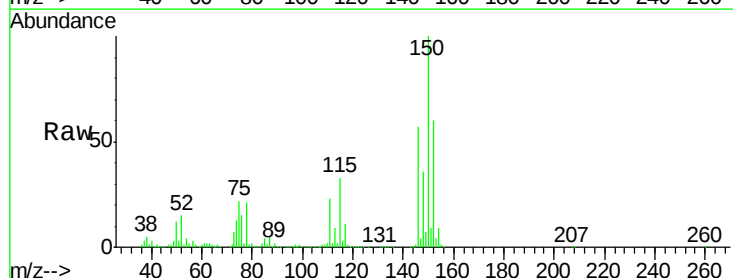
Tgt Ion:152 Resp: 767453

Ion Ratio Lower Upper

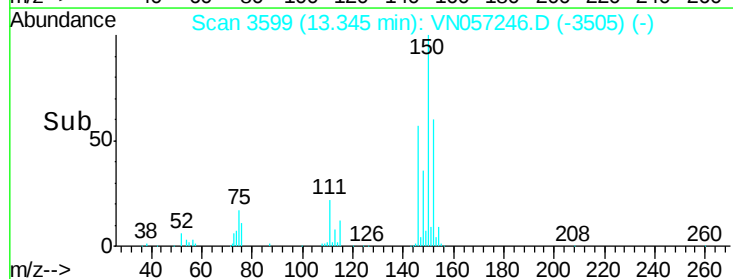
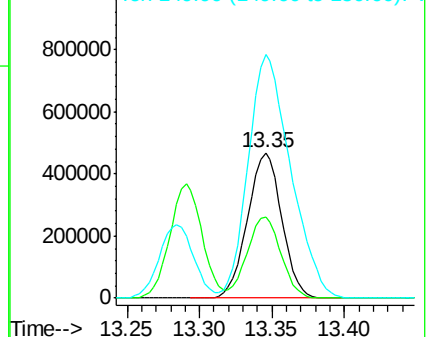
152 100

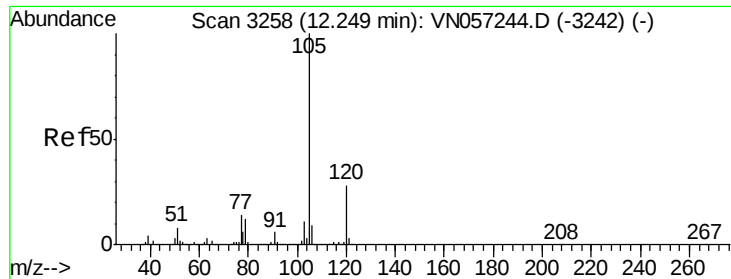
115 55.7 27.6 82.8

150 207.6 0.0 348.4



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: 137.015 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 8636230

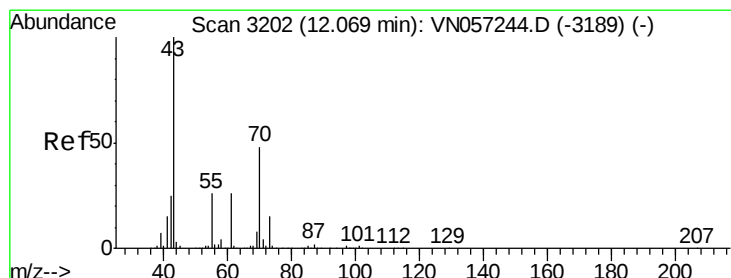
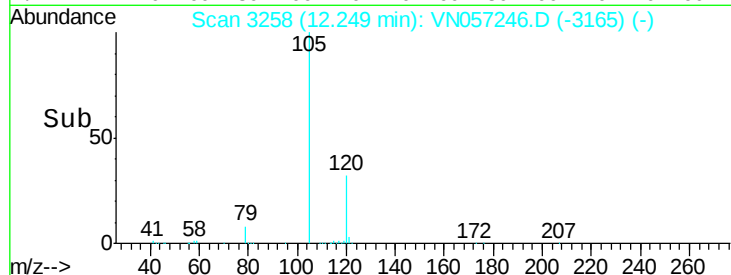
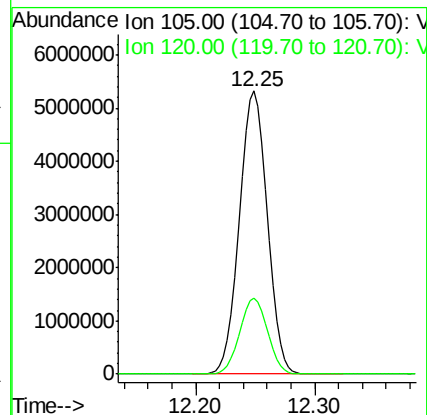
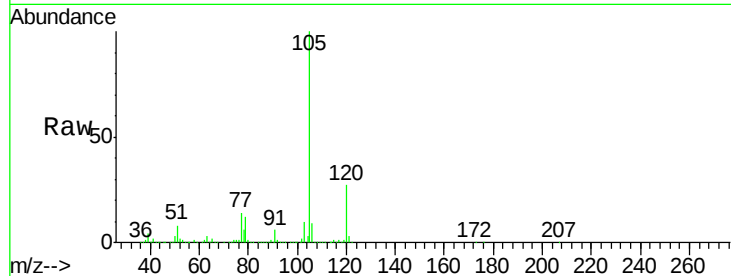
Ion Ratio Lower Upper

105 100

120 26.8 13.8 41.3

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#74

N-ethyl acetate

Concen: 120.633 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Tgt Ion: 43 Resp: 2705878

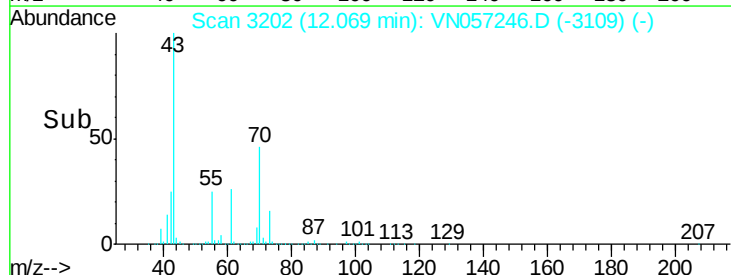
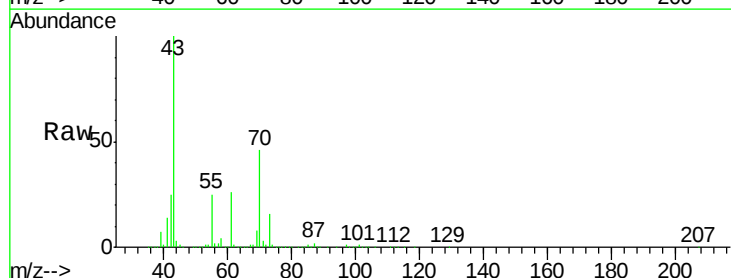
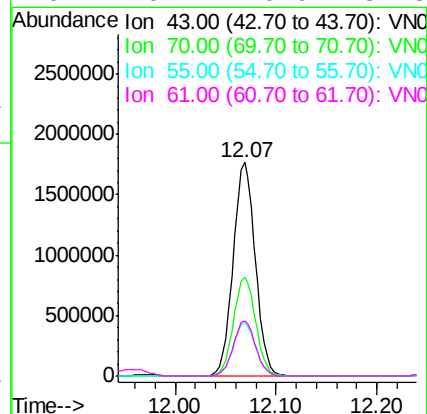
Ion Ratio Lower Upper

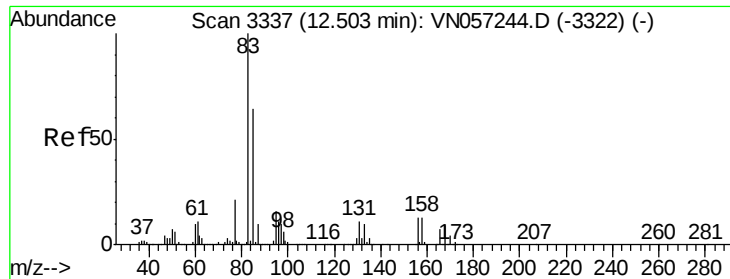
43 100

70 46.6 37.4 56.2

55 25.1 21.0 31.4

61 26.1 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 111.110 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 2303208

Ion Ratio Lower Upper

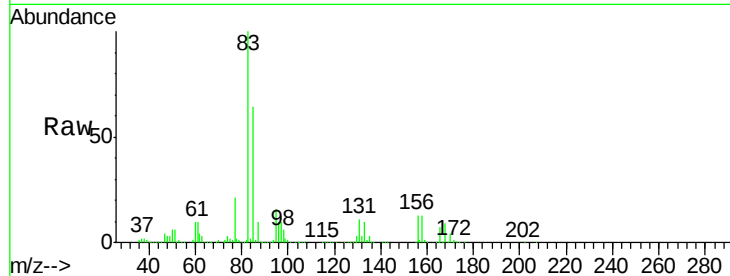
83 100

131 11.2 5.6 16.8

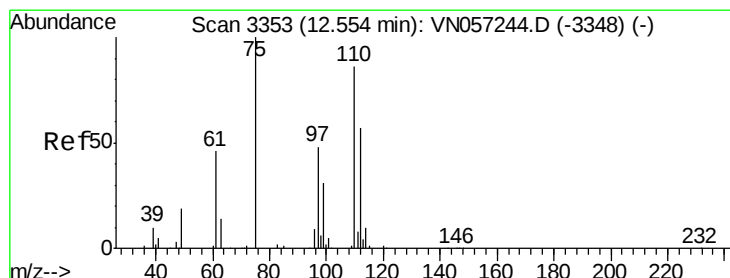
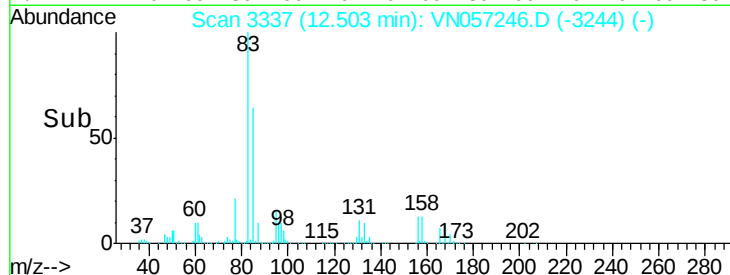
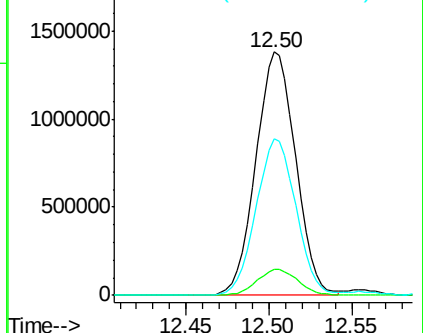
85 64.4 32.3 96.8

Manual Integrations
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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: 117.120 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057246.D

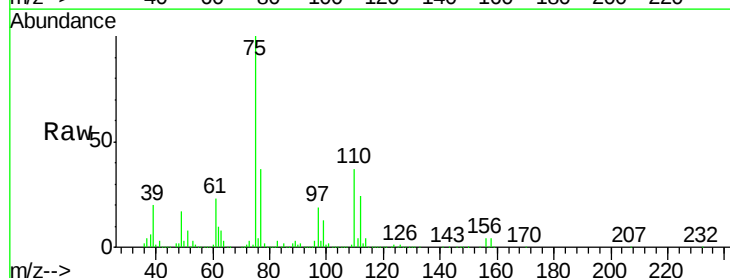
Acq: 13 Aug 2019 13:28

Tgt Ion: 75 Resp: 1935313

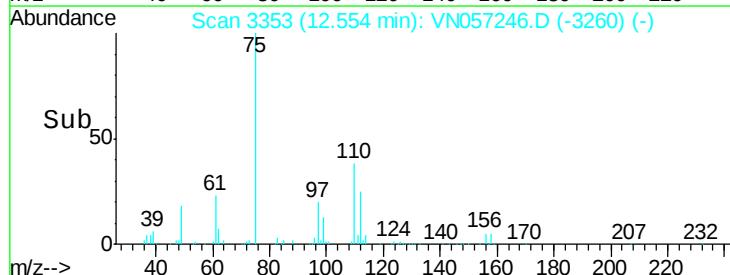
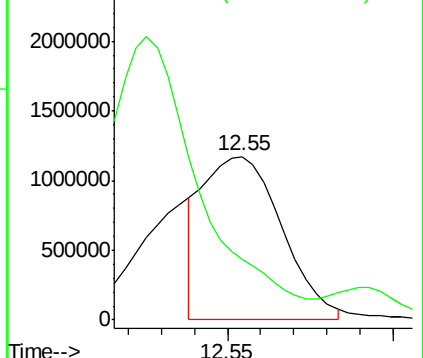
Ion Ratio Lower Upper

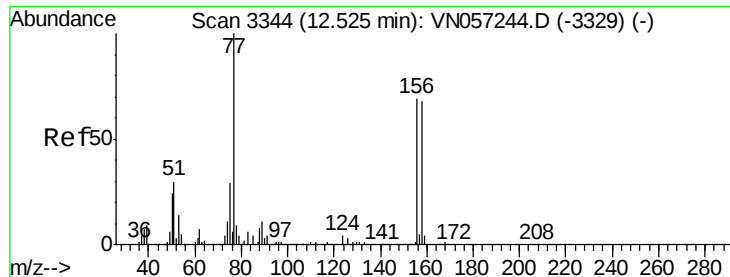
75 100

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: 142.496 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:156 Resp: 2353292

Ion Ratio Lower Upper

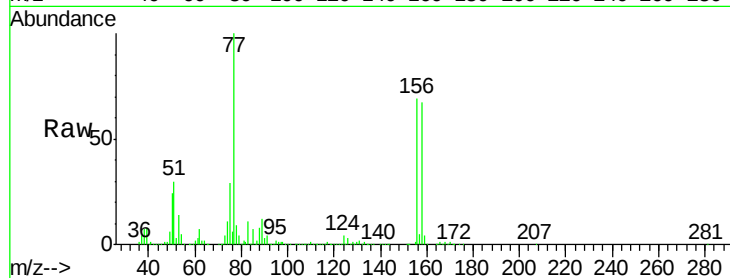
156 100

77 173.5 88.0 264.1

158 98.0 49.4 148.0

Manual Integrations
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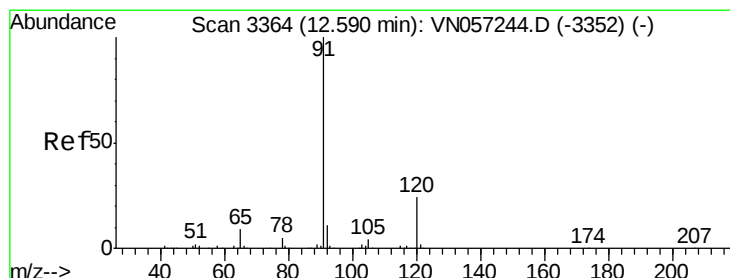
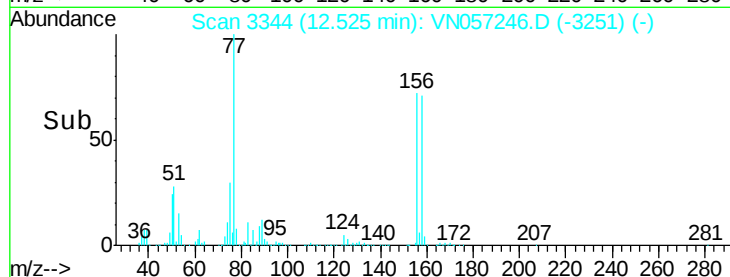
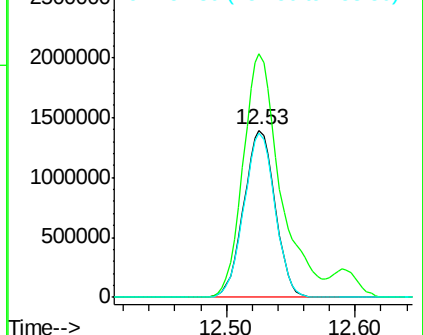
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 139.909 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057246.D

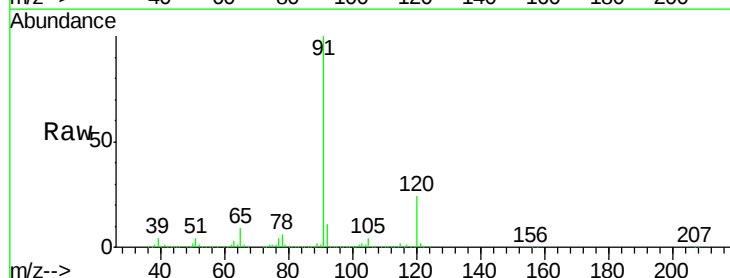
Acq: 13 Aug 2019 13:28

Tgt Ion: 91 Resp: 9685644

Ion Ratio Lower Upper

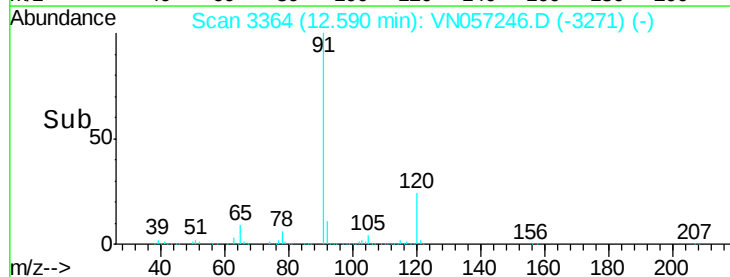
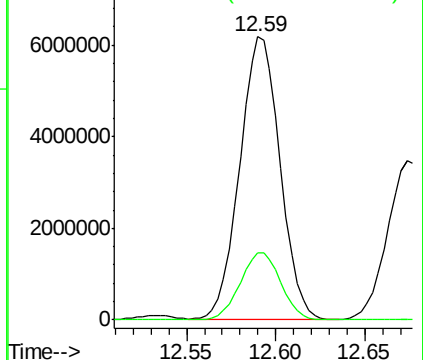
91 100

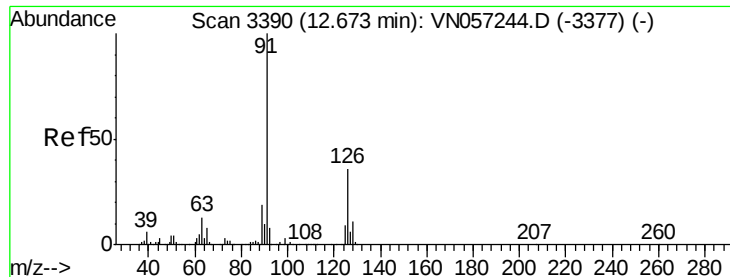
120 24.0 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 132.977 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 5725025

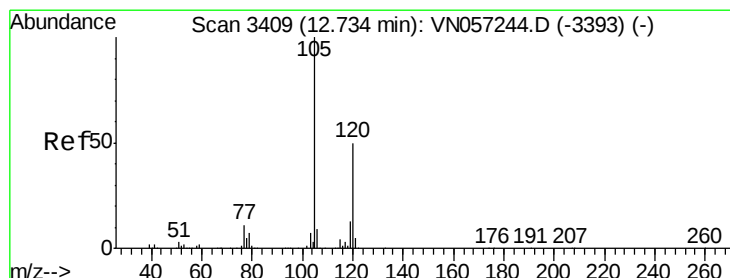
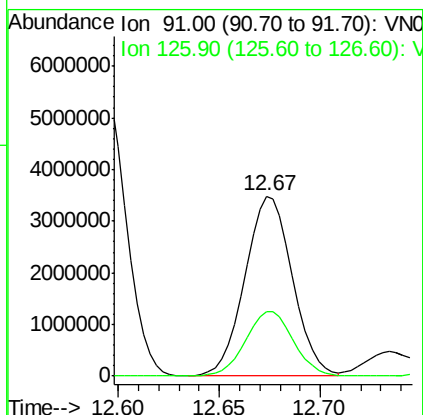
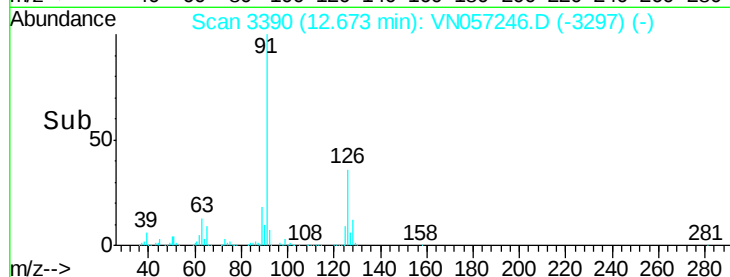
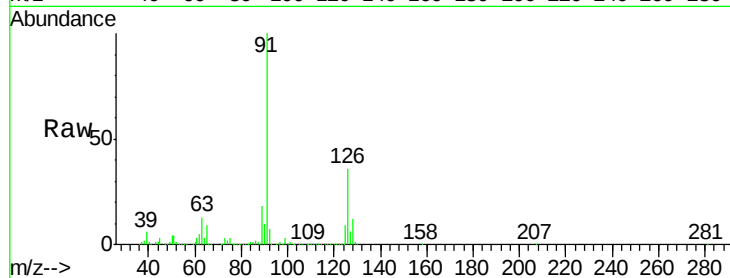
Ion Ratio Lower Upper

91 100

126 36.2 18.0 54.0

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#80

1,3,5-Trimethylbenzene

Concen: 139.042 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057246.D

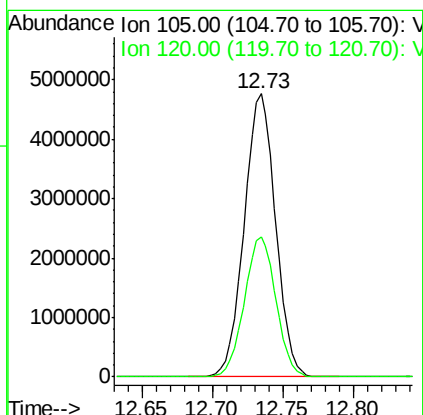
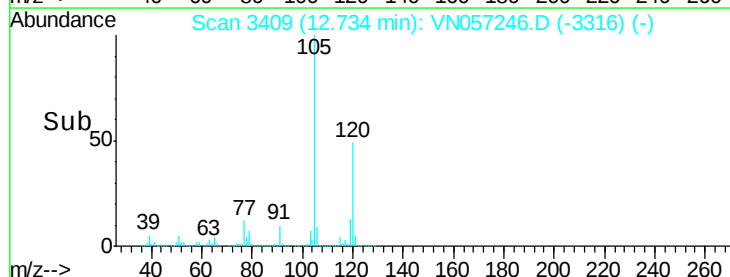
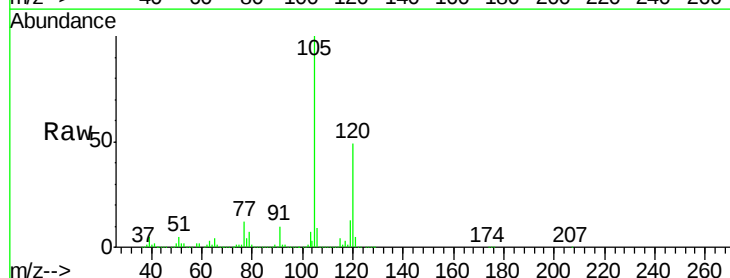
Acq: 13 Aug 2019 13:28

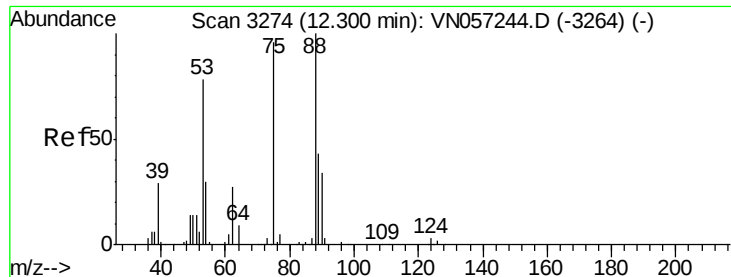
Tgt Ion: 105 Resp: 7403246

Ion Ratio Lower Upper

105 100

120 49.8 25.3 75.8





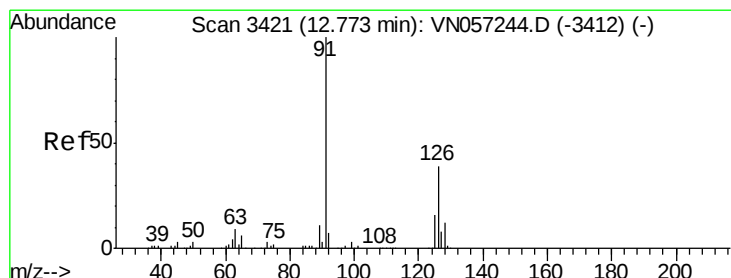
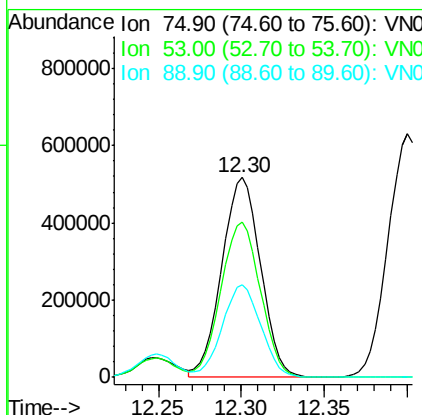
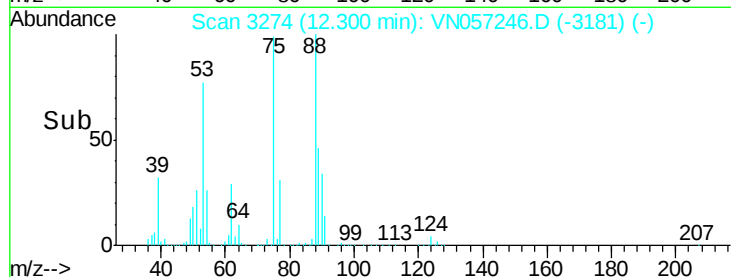
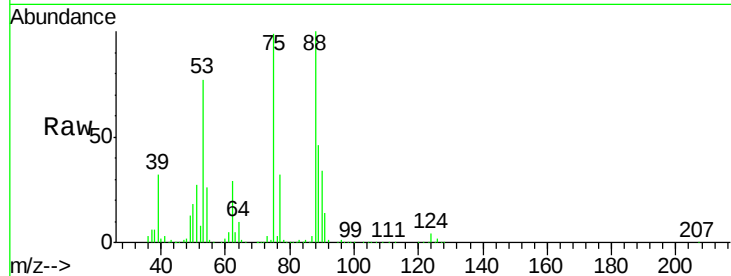
#81
trans-1,4-Dichloro-2-butene
Concen: 152.592 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	79.7	65.8	98.6
89	46.2	36.7	55.1

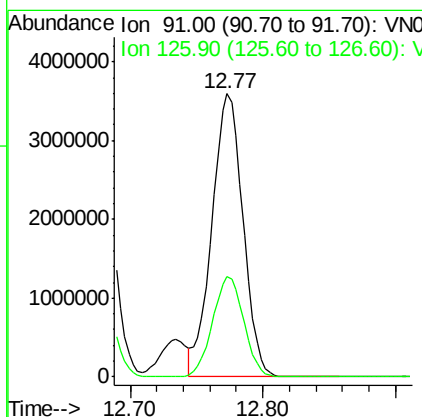
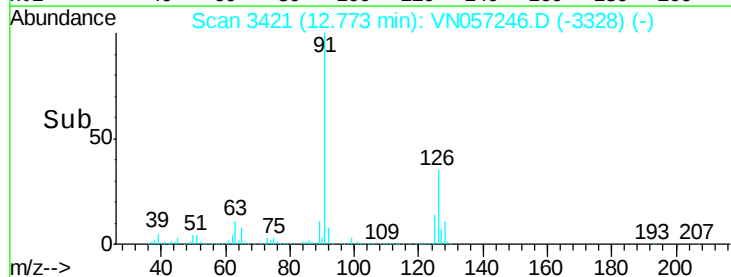
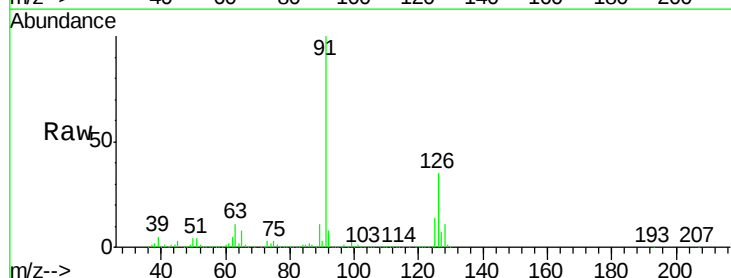
Manual Integrations
APPROVED

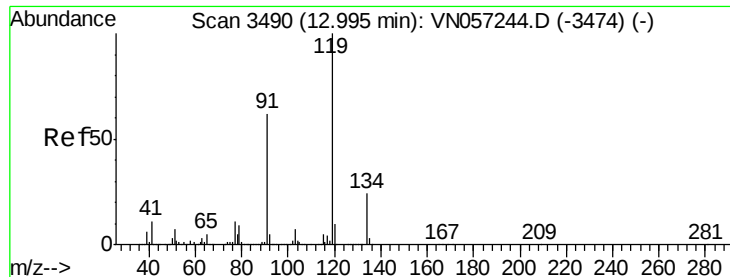
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#82
4-Chlorotoluene
Concen: 143.891 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.9	53.7





#83

tert-Butylbenzene

Concen: 138.532 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:119 Resp: 6481756

Ion Ratio Lower Upper

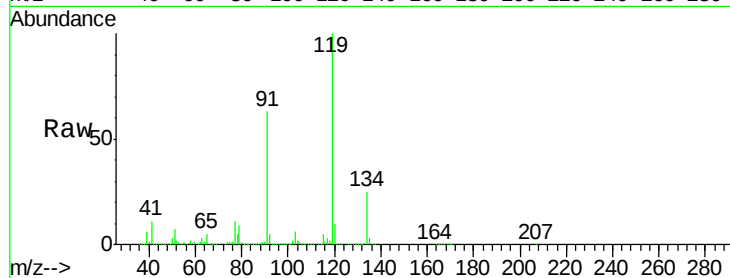
119 100

91 61.9 30.8 92.3

134 26.1 12.9 38.7

Manual Integrations
APPROVED

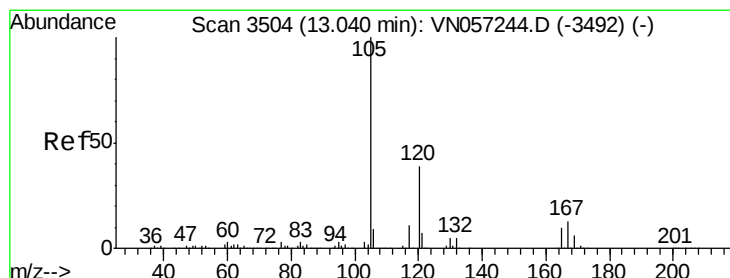
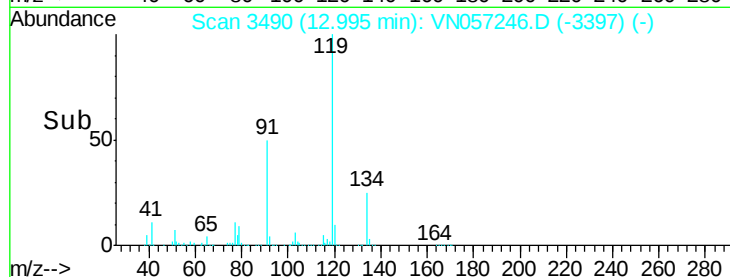
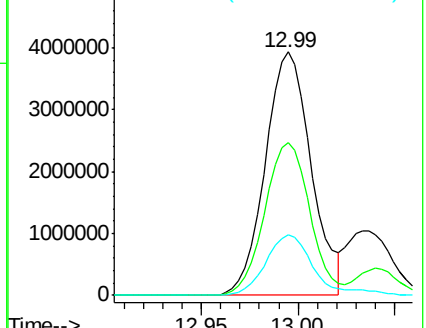
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 141.099 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN057246.D

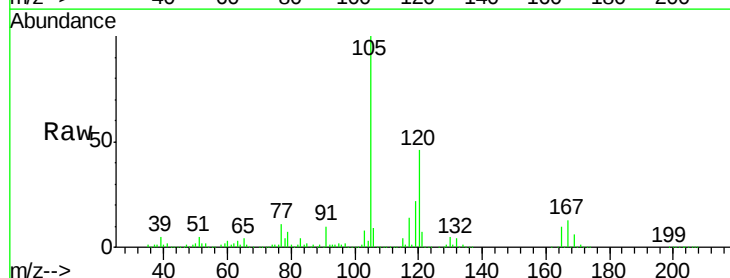
Acq: 13 Aug 2019 13:28

Tgt Ion:105 Resp: 7278387

Ion Ratio Lower Upper

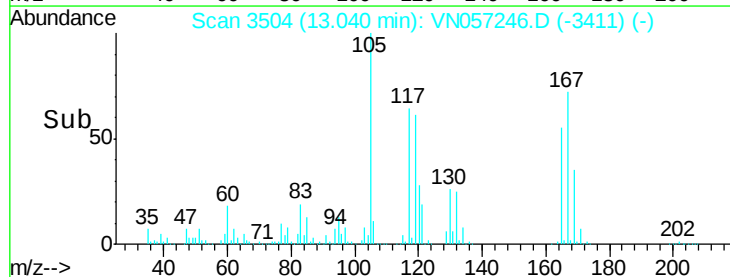
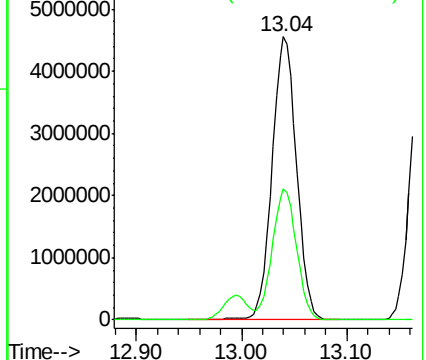
105 100

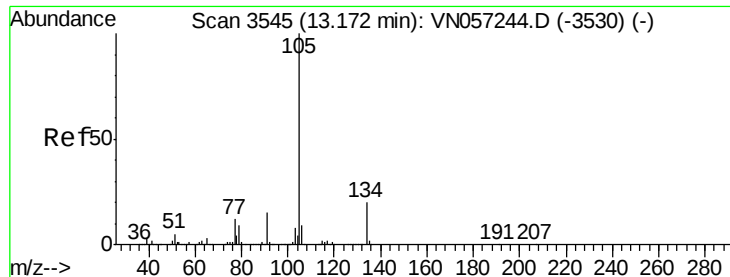
120 46.3 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 143.050 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 8450437

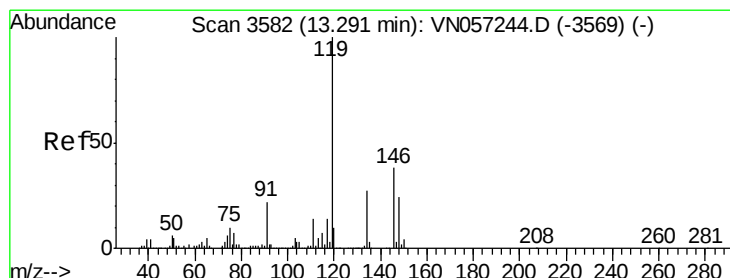
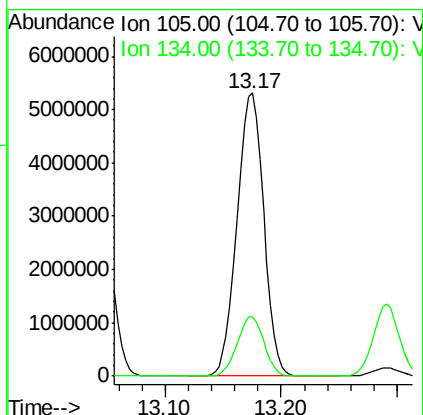
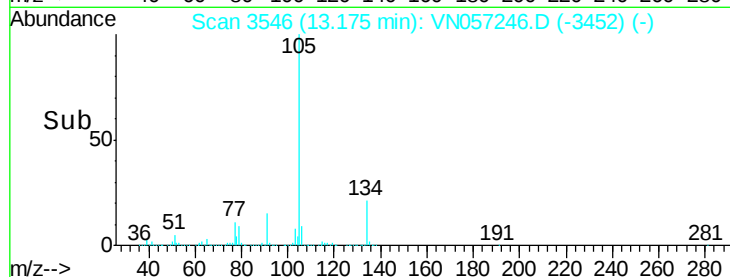
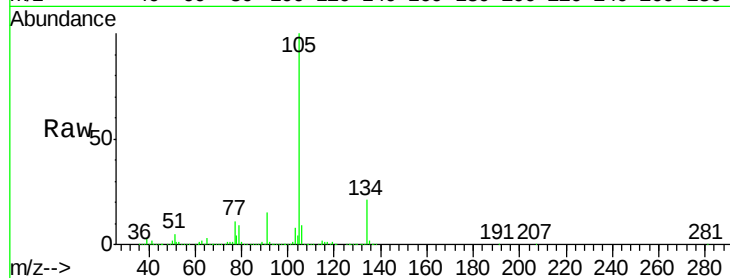
Ion Ratio Lower Upper

105 100

134 21.0 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 147.688 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

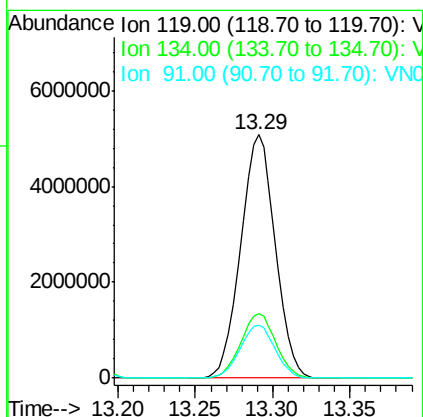
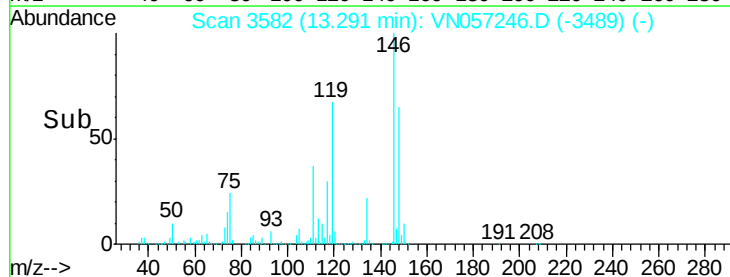
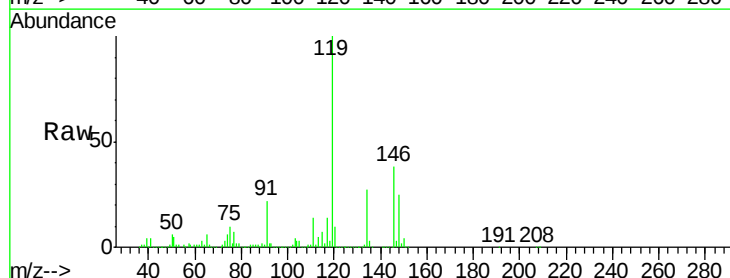
Tgt Ion:119 Resp: 7861172

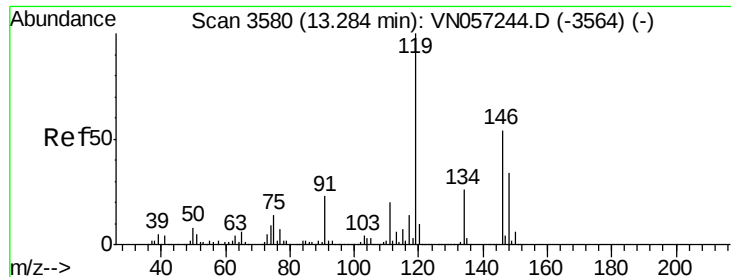
Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.5

91 22.1 11.1 33.3





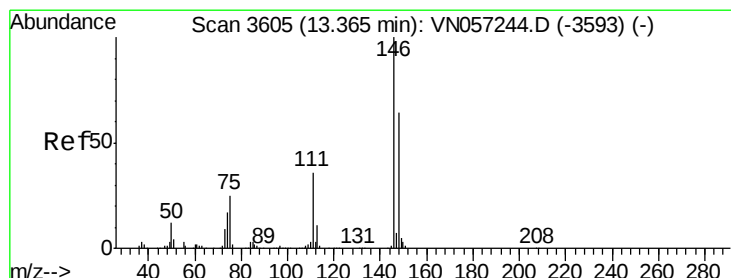
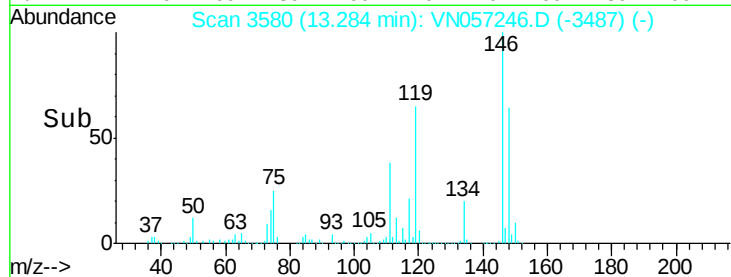
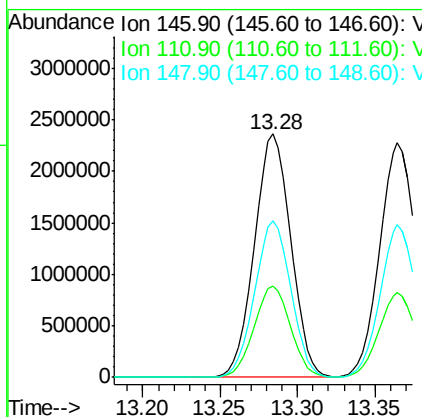
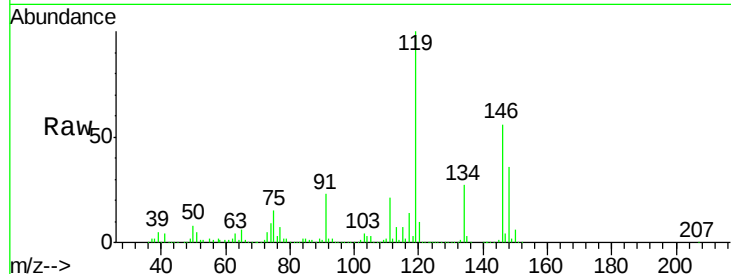
#87
 1,3-Dichlorobenzene
 Concen: 145.298 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:146 Resp: 3874538
 Ion Ratio Lower Upper
 146 100
 111 37.5 18.8 56.4
 148 63.9 32.1 96.5

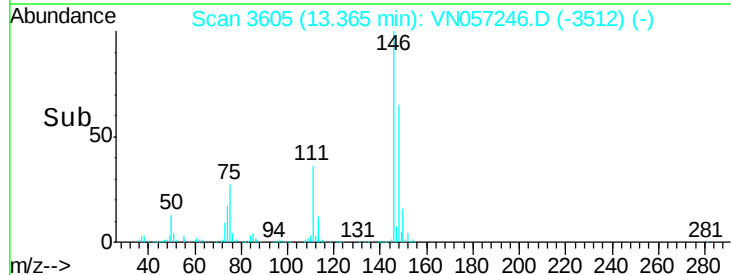
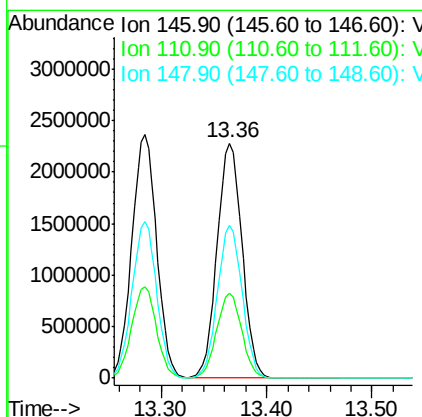
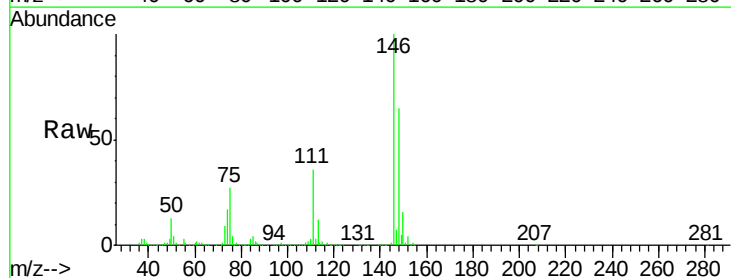
Manual Integrations
 APPROVED

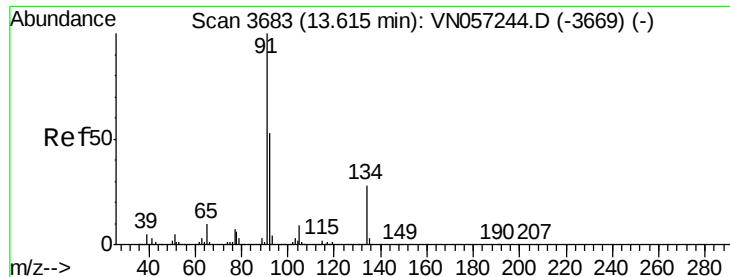
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#88
 1,4-Dichlorobenzene
 Concen: 145.032 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Tgt Ion:146 Resp: 3740019
 Ion Ratio Lower Upper
 146 100
 111 36.2 18.3 54.8
 148 64.2 32.0 96.0





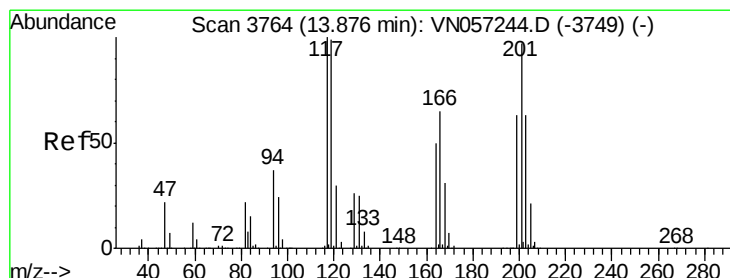
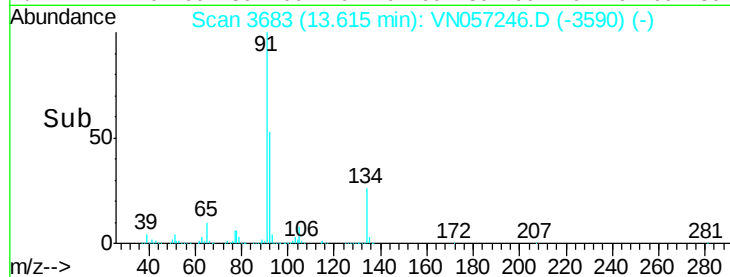
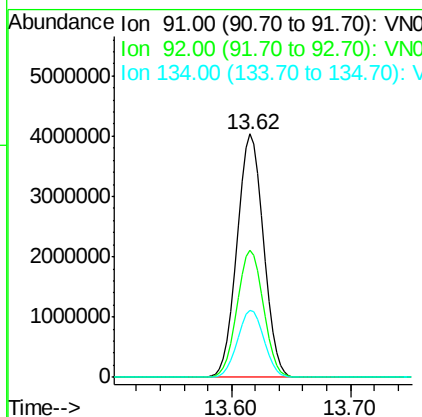
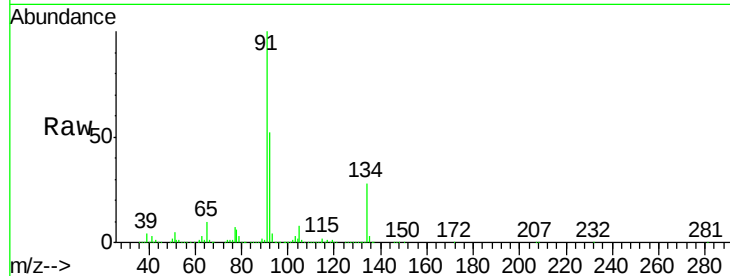
#89
n-Butylbenzene
Concen: 148.527 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 6215143
Ion Ratio Lower Upper
91 100
92 52.2 26.3 78.9
134 27.7 14.1 42.3

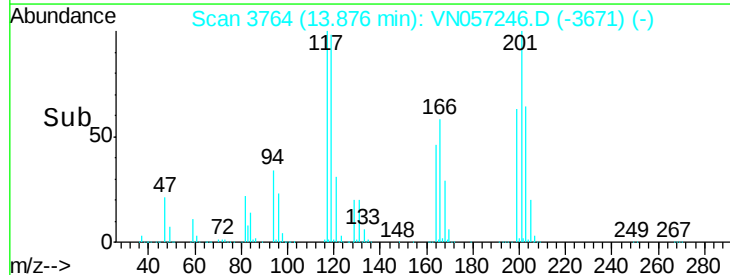
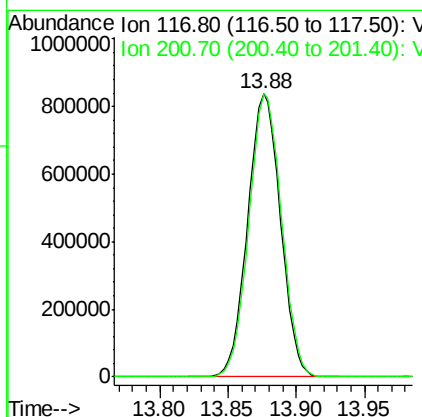
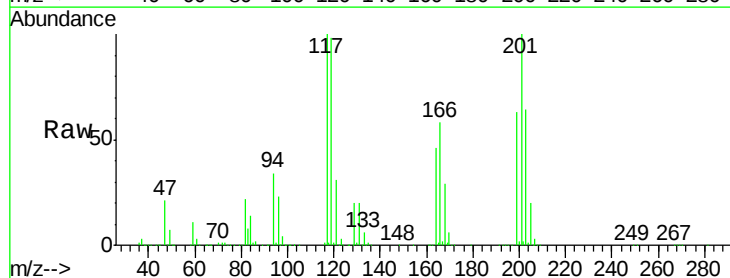
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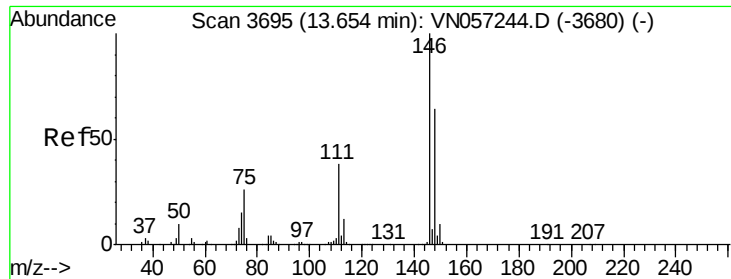
MMDadoda
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#90
Hexachloroethane
Concen: 158.331 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN057246.D
Acq: 13 Aug 2019 13:28

Tgt Ion: 117 Resp: 1398723
Ion Ratio Lower Upper
117 100
201 99.4 49.5 148.5





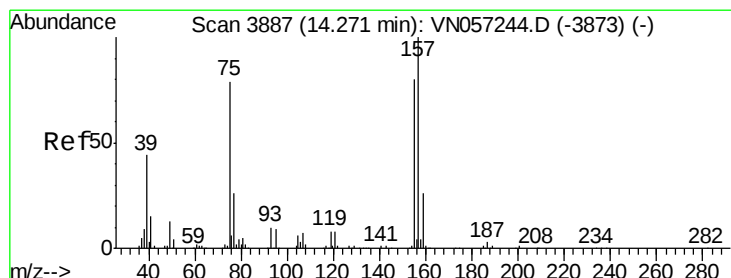
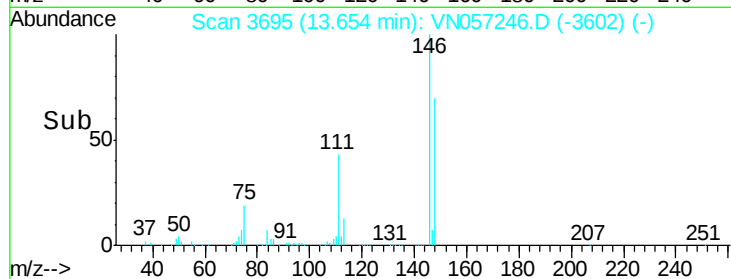
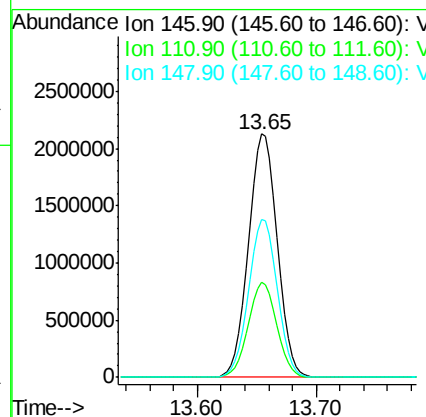
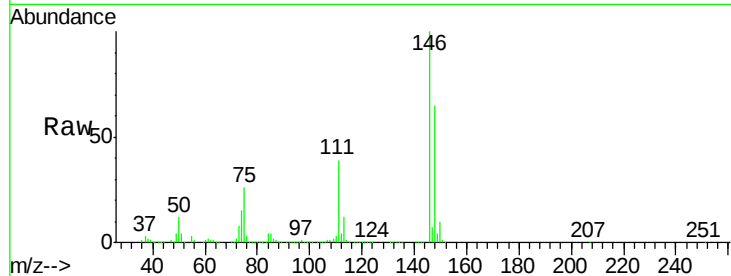
#91
 1,2-Dichlorobenzene
 Concen: 131.552 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.3	57.9
148	64.8	31.9	95.5

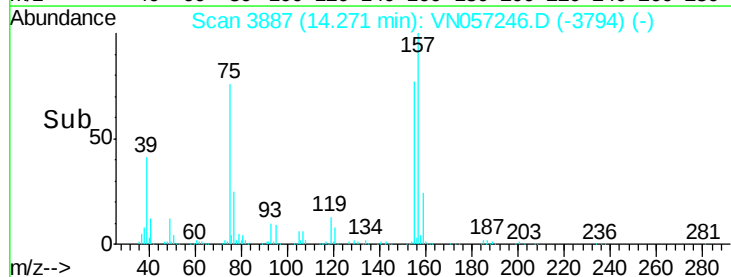
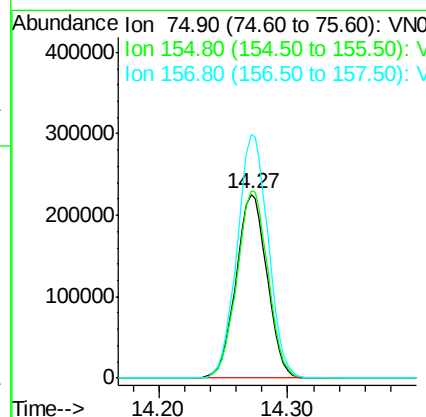
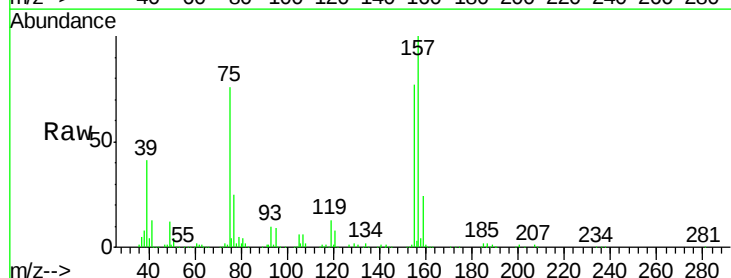
Manual Integrations
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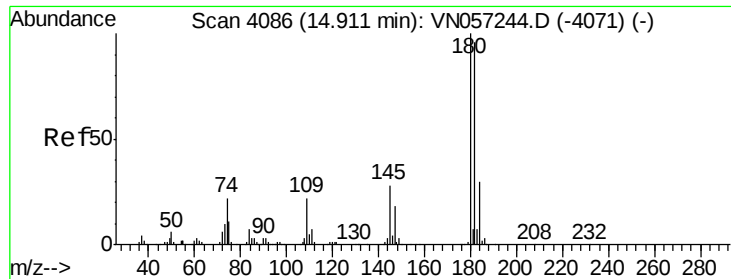
MMDadoda
 8/16/2019 8:58:22 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 117.784 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.9	50.3	151.0
157	132.6	65.3	195.9





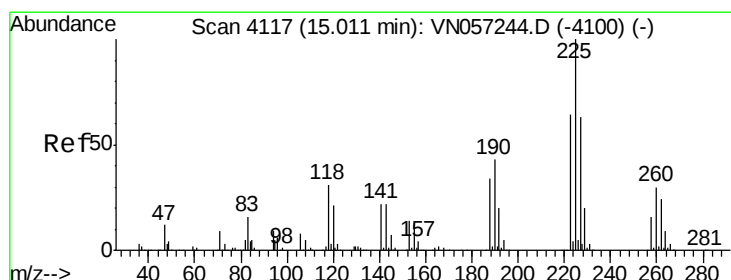
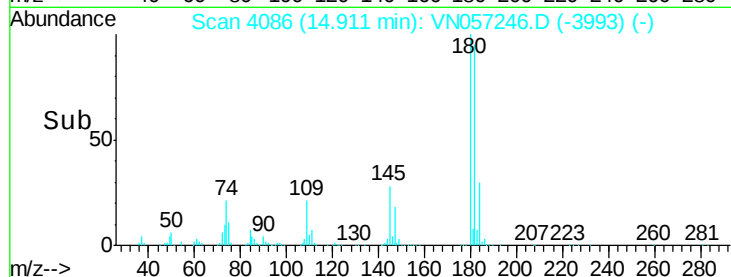
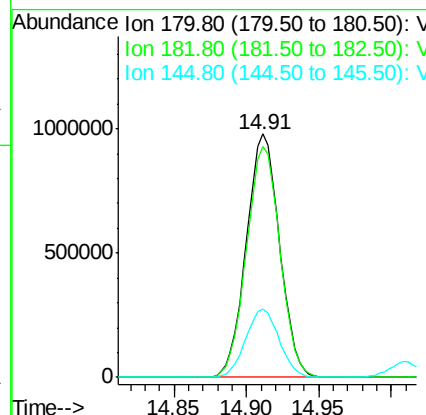
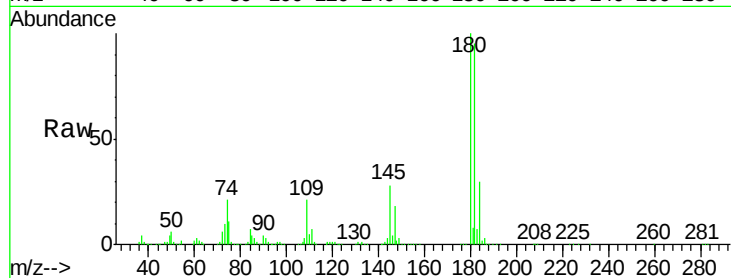
#93
 1,2,4-Trichlorobenzene
 Concen: 133.553 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.7	143.1
145	28.4	14.2	42.6

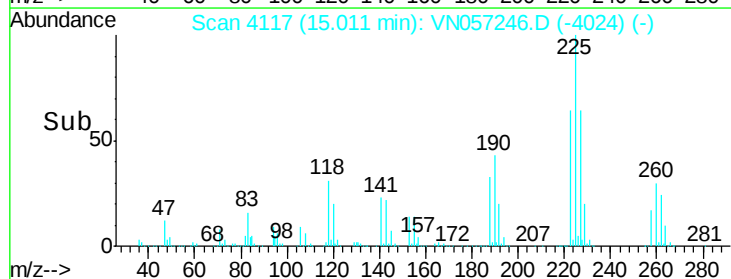
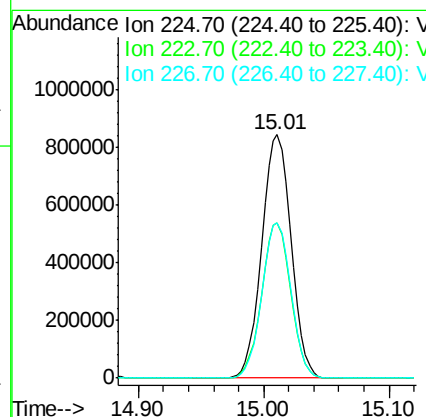
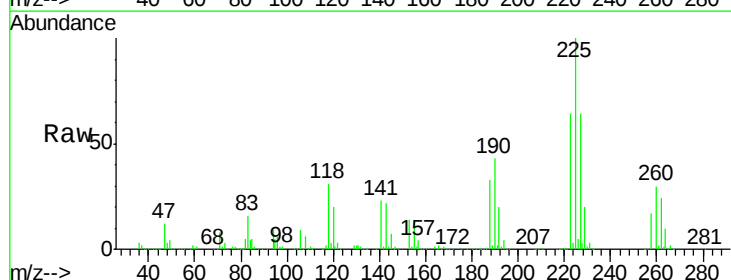
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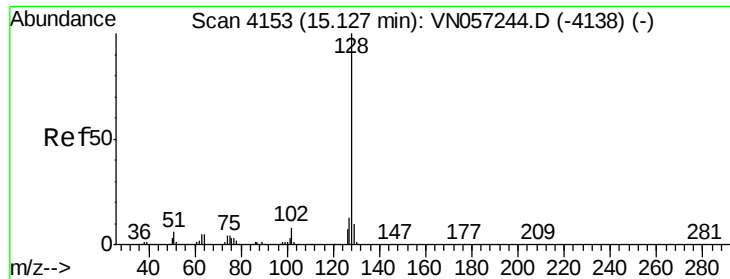
MMDadoda
 8/16/2019 8:58:22 AM



#94
 Hexachlorobutadiene
 Concen: 136.592 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057246.D
 Acq: 13 Aug 2019 13:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.4	94.2
227	63.2	31.4	94.3





#95

Naphthalene

Concen: 124.793 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:128 Resp: 3749997

Ion Ratio Lower Upper

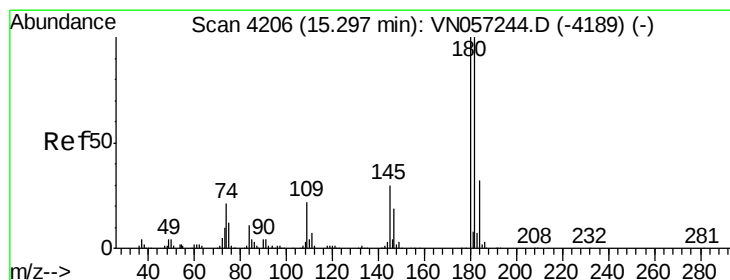
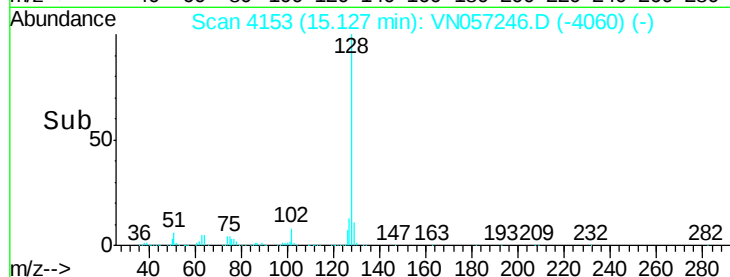
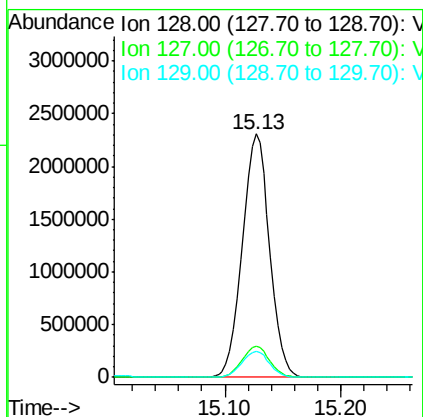
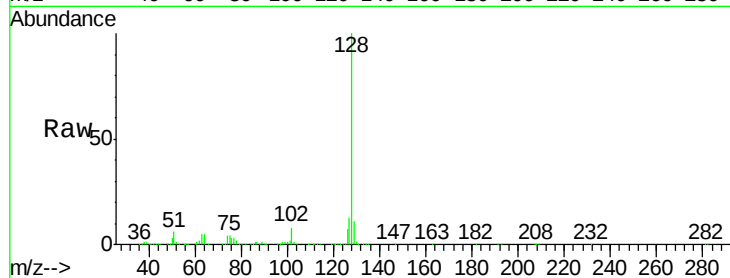
128 100

127 13.0 10.4 15.6

129 10.8 8.5 12.7

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:58:22 AM



#96

1,2,3-Trichlorobenzene

Concen: 124.891 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN057246.D

Acq: 13 Aug 2019 13:28

Tgt Ion:180 Resp: 1489994

Ion Ratio Lower Upper

180 100

182 96.0 48.9 146.7

145 30.0 15.0 45.1

