

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057464.D
 Acq On : 23 Aug 2019 10:03
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:54 PM

Quant Time: Aug 23 23:06:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	72746	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	423069	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	370497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213965	41.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	137.87%
60) 4-Bromofluorobenzene	12.40	95	194397	35.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	116.83%
63) Toluene-d8	10.08	98	551559	32.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	193216	51.788	ug/l 99
3) Chloromethane	2.05	50	284065	61.467	ug/l 100
4) Vinyl Chloride	2.17	62	365892	75.721	ug/l 99
5) Bromomethane	2.54	94	230318	65.102	ug/l 99
6) Chloroethane	2.69	64	241444	73.940	ug/l 98
7) Trichlorofluoromethane	3.00	101	583044	76.001	ug/l 94
8) Diethyl Ether	3.39	74	217084	75.660	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	319168	70.993	ug/l 98
10) 1,1-Dichloroethene	3.71	96	307818	69.947	ug/l 100
11) Methyl Iodide	3.92	142	244354	38.957	ug/l 98
12) Methyl Acetate	4.31	43	286992	59.298	ug/l 98
13) Acrolein	3.58	56	198571	390.523	ug/l 98
14) Acrylonitrile	4.96	53	543684	289.812	ug/l 99
15) Acetone	3.80	58	262197	402.701	ug/l 91
16) Carbon Disulfide	4.02	76	547531	50.596	ug/l 100
17) Allyl chloride	4.29	41	420188	66.440	ug/l 97
18) Methylene Chloride	4.52	84	226814	50.325	ug/l 100
19) trans-1,2-Dichloroethene	5.00	96	212667	50.064	ug/l 99
20) Diisopropyl ether	5.93	45	898893	67.924	ug/l 97
21) 1,1-Dichloroethane	5.82	63	478825	61.335	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	260572	52.133	ug/l 99
23) tert-Butyl Alcohol	4.78	59	195467	290.585	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	725202	57.741	ug/l 99
25) Chloroform	7.35	83	460819	57.380	ug/l 99
26) Cyclohexane	7.63	56	406584	61.853	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	344785	54.780	ug/l 99
30) 2-Butanone	6.82	43	851175	323.943	ug/l 99
31) 2,2-Dichloropropane	6.80	77	397107	56.986	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	396797	53.840	ug/l 99
33) Carbon Tetrachloride	7.76	117	327927	50.604	ug/l 99
34) Benzene	8.03	78	1020442	53.699	ug/l # 92
35) Methacrylonitrile	7.15	41	174022	50.852	ug/l 93
36) 1,2-Dichloroethane	8.11	62	395727	61.352	ug/l # 87
37) Trichloroethene	8.82	130	234539	44.407	ug/l 93
38) Methylcyclohexane	9.07	83	392417	53.442	ug/l 98
39) 1,2-Dichloropropane	9.11	63	295895	59.503	ug/l 92
40) Dibromomethane	9.20	93	177102	54.680	ug/l 98

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.39	83	379718	57.525	ug/l #	99
42) Vinyl Acetate	5.87	43	3784201	339.988	ug/l	100
43) Ethyl Acetate	6.91	43	347441	65.653	ug/l	100
44) Isopropyl Acetate	8.16	43	628617	66.332	ug/l #	93
45) 1,4-Dioxane	9.20	88	72956	899.824	ug/l	98
46) Methyl methacrylate	9.19	41	300998	69.864	ug/l	98
47) n-amyl Acetate	12.07	43	520857	73.015	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	405357	57.191	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	436749	55.356	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	230765	49.859	ug/l	99
51) Ethyl methacrylate	10.43	69	404627	58.775	ug/l	98
52) 1,3-Dichloropropane	10.70	76	431404	55.761	ug/l	100
53) Dibromochloromethane	10.90	129	253211	48.413	ug/l	97
54) 1,2-Dibromoethane	11.00	107	239549	49.807	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	500847	311.358	ug/l	99
56) Bromoform	12.13	173	160306	42.116	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	1797620	337.312	ug/l	100
59) 2-Hexanone	10.75	43	1254054	330.673	ug/l	99
61) Tetrachloroethene	10.63	164	202956	39.537	ug/l	94
62) Toluene	10.15	91	1100669	53.040	ug/l	100
64) Chlorobenzene	11.43	112	607449	47.965	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	234408	48.051	ug/l	98
66) Ethyl Benzene	11.51	91	1216824	53.939	ug/l	100
67) m/p-Xylenes	11.62	106	863243	104.045	ug/l	99
68) o-Xylene	11.95	106	418650	51.293	ug/l	96
69) Styrene	11.96	104	696141	53.476	ug/l	98
70) Isopropylbenzene	12.25	105	1137392	52.218	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	332669	55.136	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	290465m	56.159	ug/l	
73) Bromobenzene	12.53	156	234018	42.368	ug/l	98
74) n-propylbenzene	12.59	91	1321600	57.225	ug/l	100
75) 2-Chlorotoluene	12.67	91	768428	54.252	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	945524	52.337	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	111066	56.238	ug/l	96
78) 4-Chlorotoluene	12.77	91	745626	56.116	ug/l	99
79) tert-butylbenzene	12.99	119	788163	49.337	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	912115	53.500	ug/l	98
81) sec-Butylbenzene	13.17	105	1071428	53.471	ug/l	100
82) p-Isopropyltoluene	13.29	119	899729	50.805	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	373914	45.872	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	371485	48.327	ug/l	99
85) n-Butylbenzene	13.62	91	814548	61.196	ug/l	97
86) Hexachloroethane	13.88	117	179632	52.192	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	373532	48.192	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	55870	65.608	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	123672	44.477	ug/l	97
90) Hexachlorobutadiene	15.01	225	99667	30.329	ug/l	98
91) Naphthalene	15.13	128	419662	63.596	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	125542	46.538	ug/l	97

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Manual Integrations
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QLast Update : Fri Aug 23 22:53:43 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

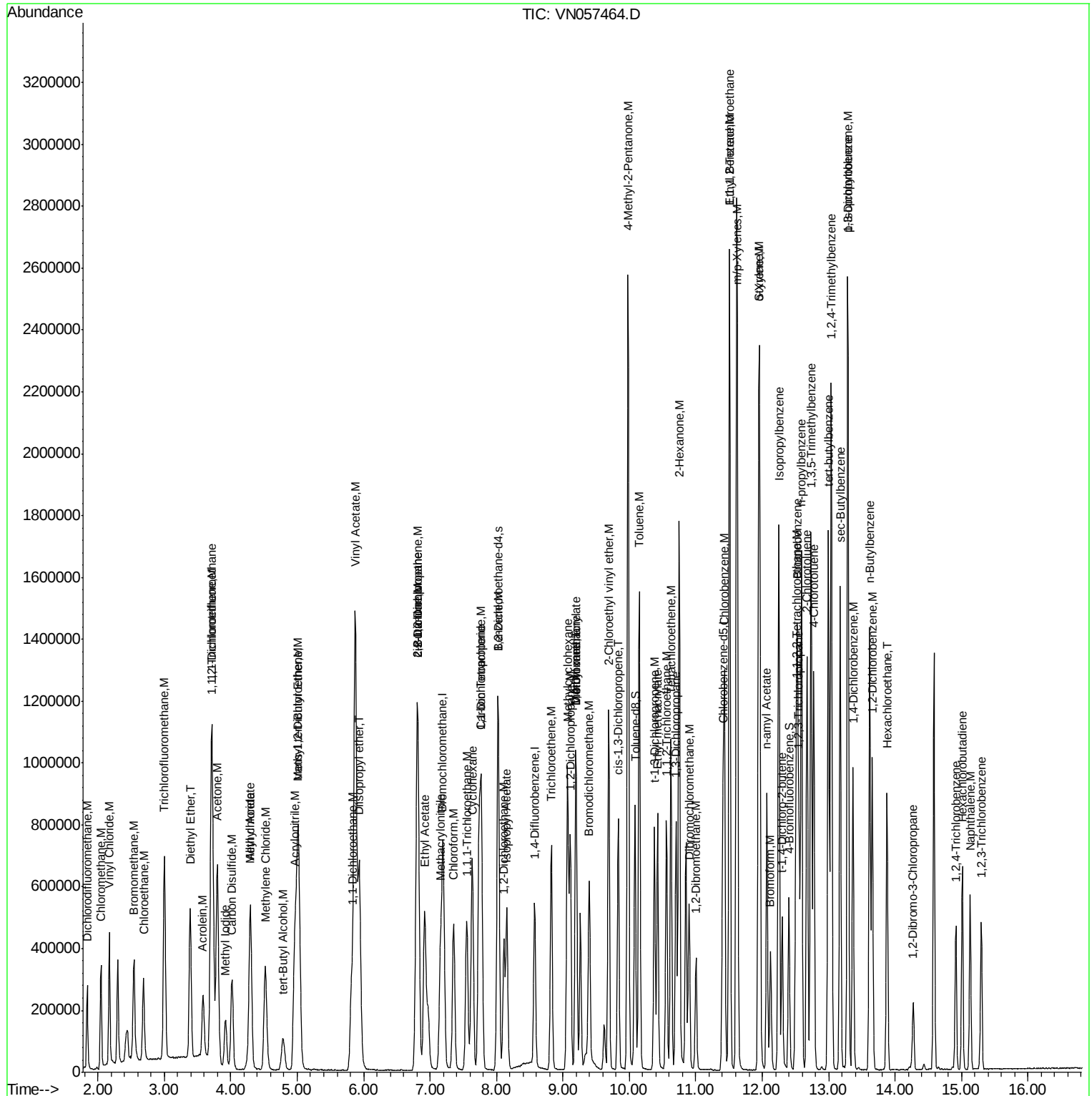
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082319\
Data File : VN057464.D
Acq On : 23 Aug 2019 10:03
Operator : JC/SP
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

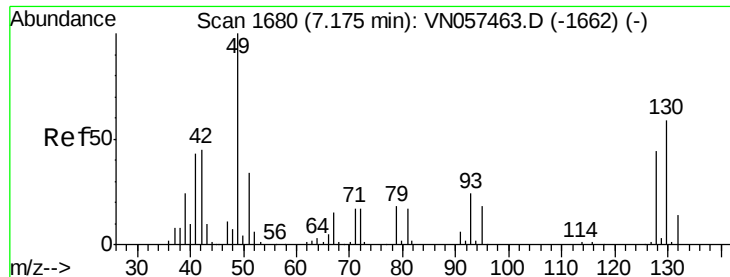
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Manual Integrations
APPROVED

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

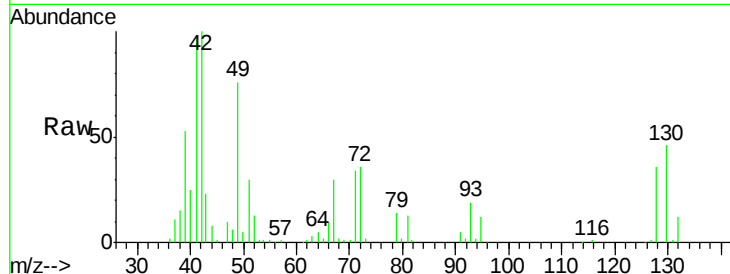
ClientSampleId :

VSTDIC050

Tot Ion:	128	Resp:	72746
Ion	Ratio	Lower	Upper
128	100		
49	222.2	0.0	560.5
130	128.4	0.0	317.3

Manual Integrations
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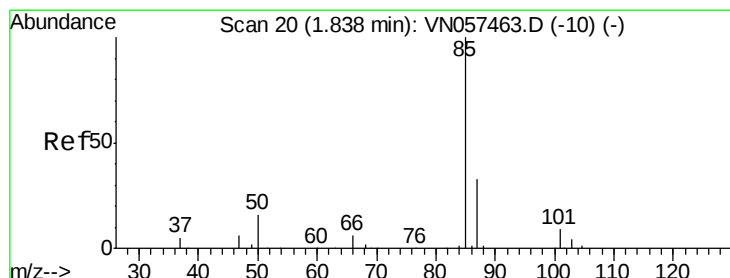
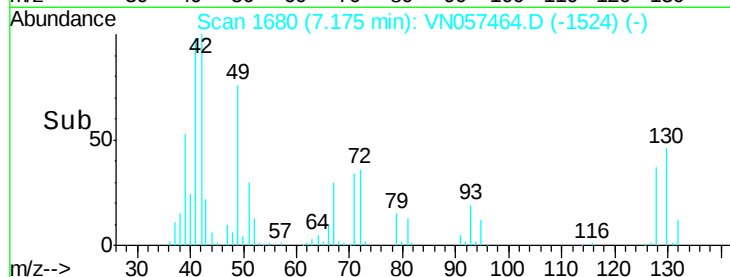
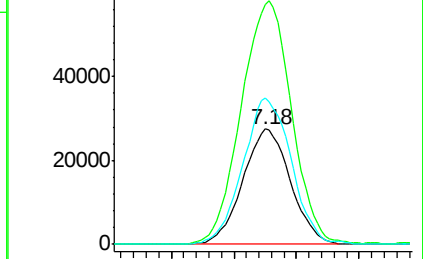
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 51.788 ug/l

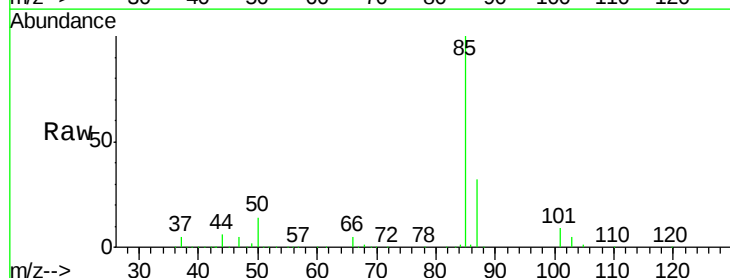
RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN057464.D

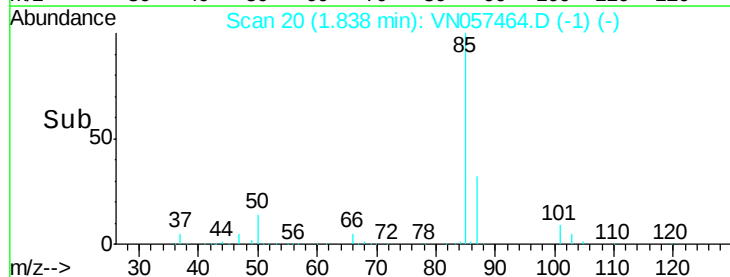
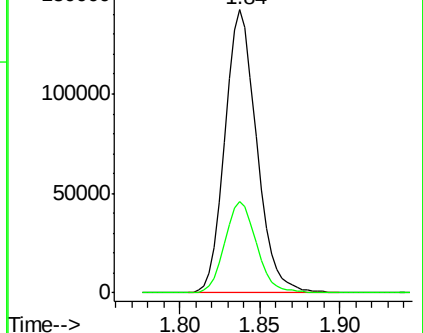
Acq: 23 Aug 2019 10:03

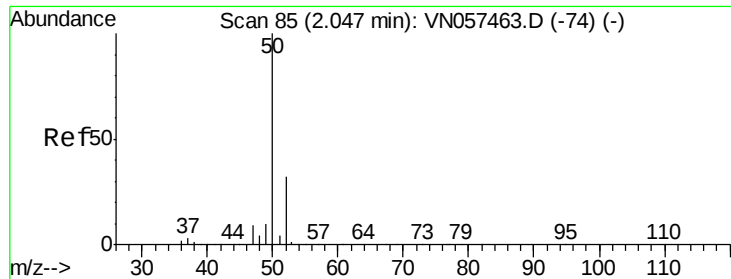
Tgt Ion:	85	Resp:	193216
Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.4	49.1



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 61.467 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 50 Resp: 284065

Ion Ratio Lower Upper

50 100

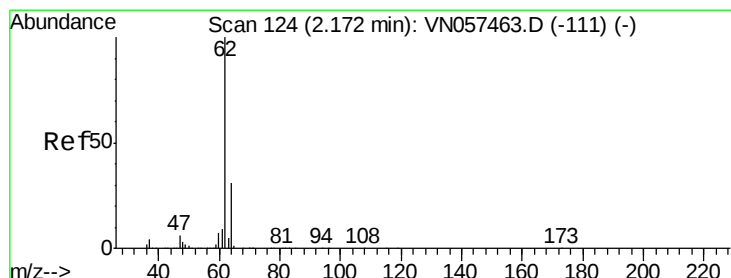
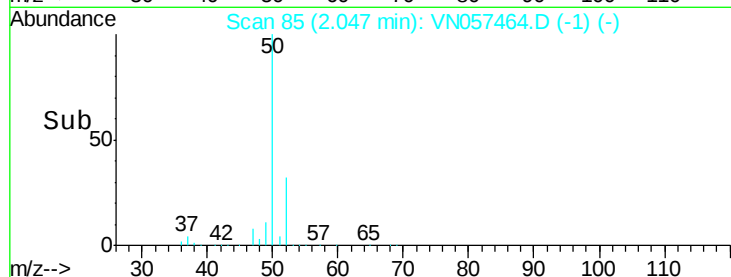
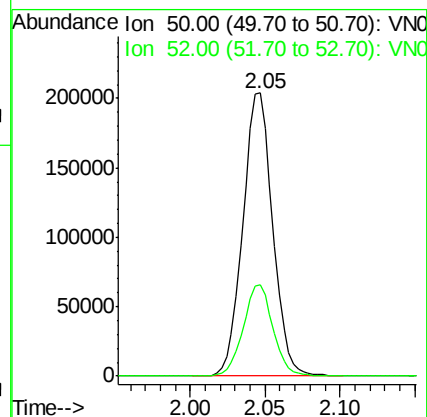
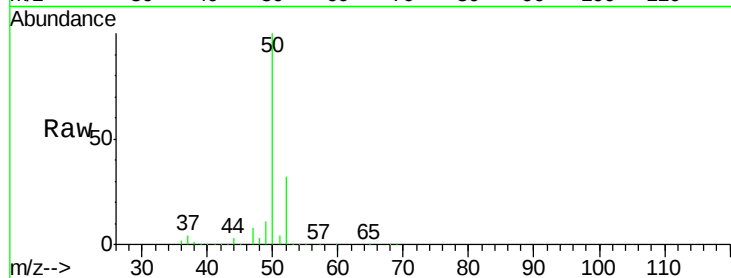
52 32.2 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 75.721 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN057464.D

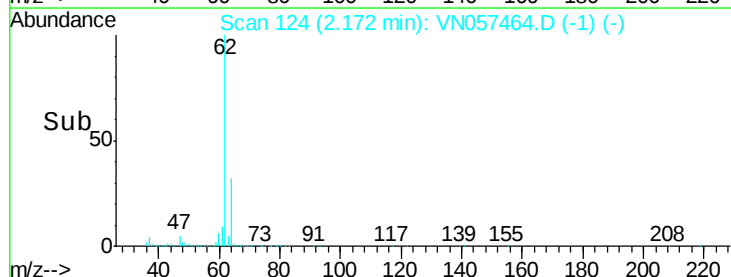
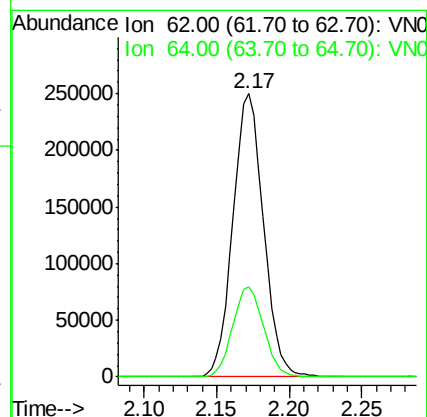
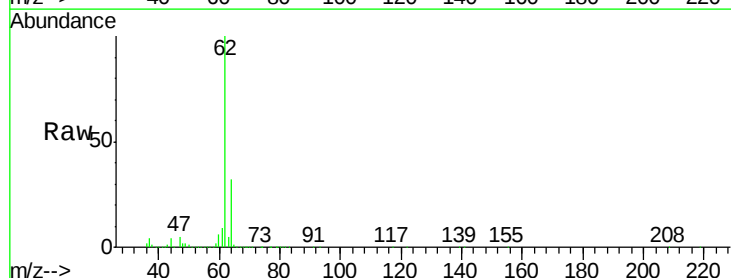
Acq: 23 Aug 2019 10:03

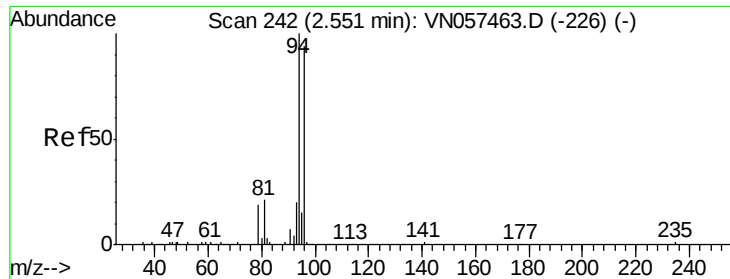
Tgt Ion: 62 Resp: 365892

Ion Ratio Lower Upper

62 100

64 31.6 24.8 37.2





#5

Bromomethane

Concen: 65.102 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 230318

Ion Ratio Lower Upper

94 100

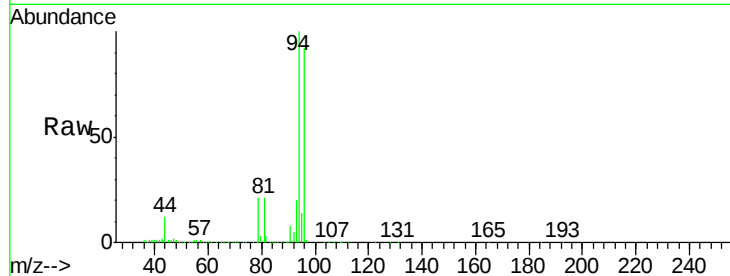
96 92.5 74.8 112.2

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO

2.54

120000

100000

80000

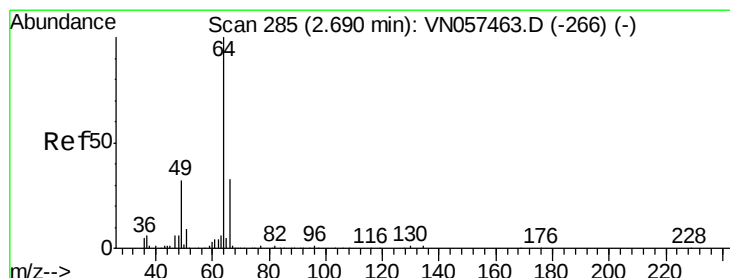
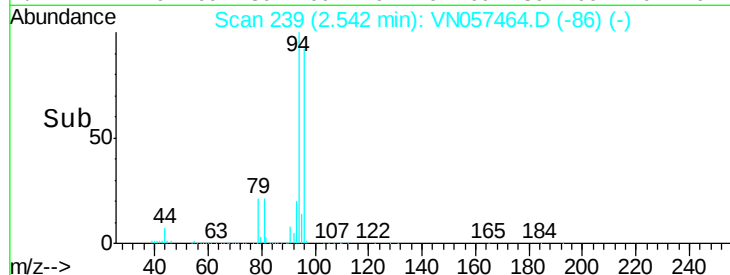
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 73.940 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.00 min

Lab File: VN057464.D

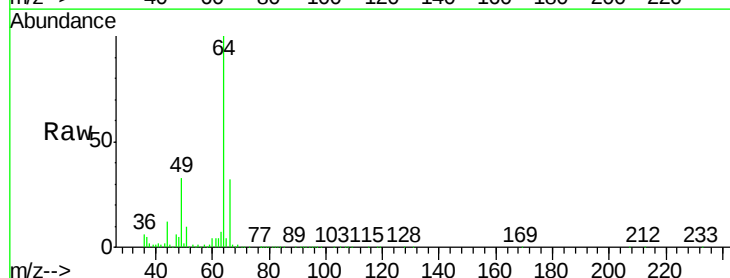
Acq: 23 Aug 2019 10:03

Tgt Ion: 64 Resp: 241444

Ion Ratio Lower Upper

64 100

66 31.7 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO

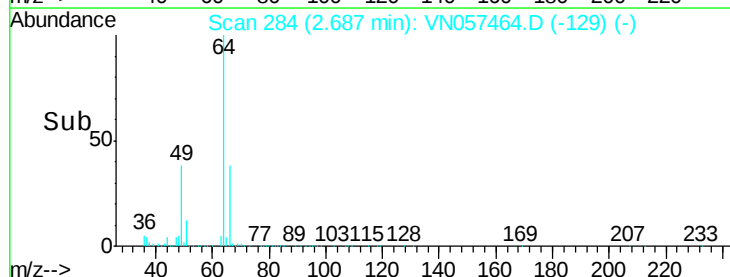
2.69

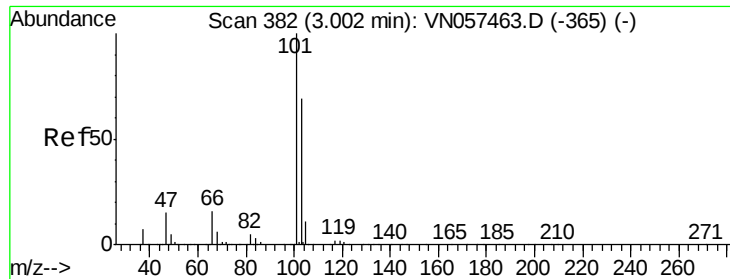
100000

50000

0

Time-->





#7

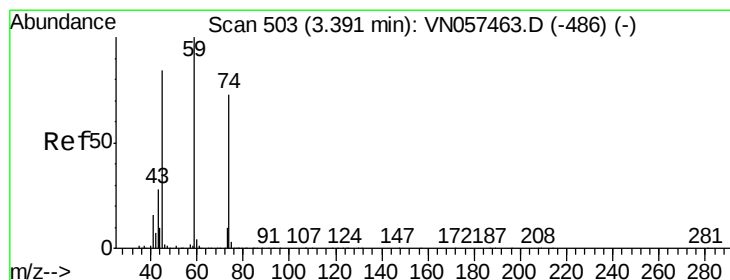
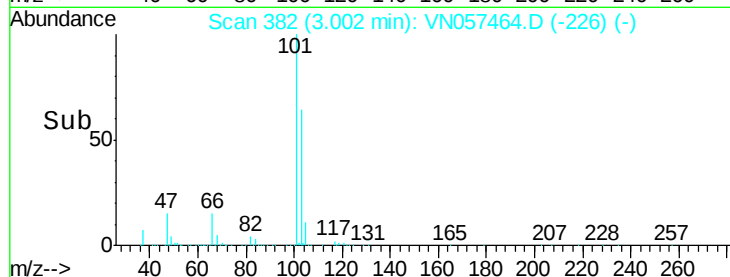
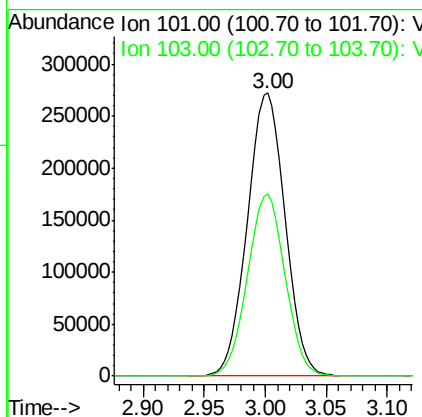
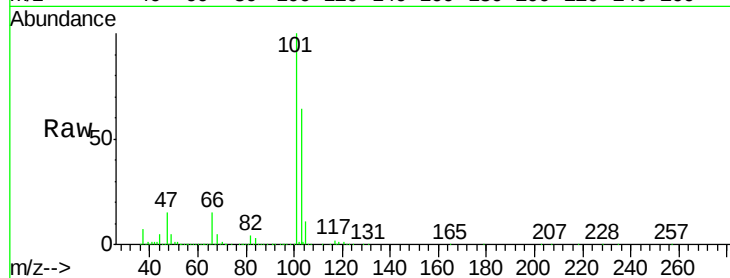
Trichlorofluoromethane
Concen: 76.001 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
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ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	55.0	82.4

Manual Integrations
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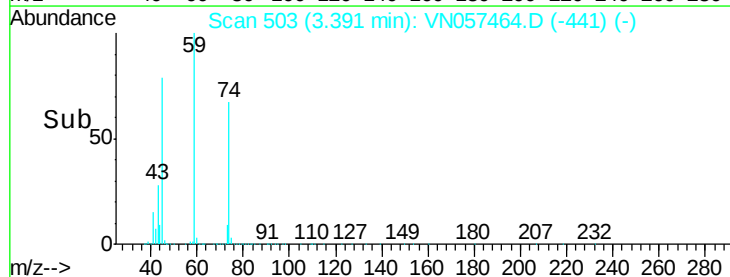
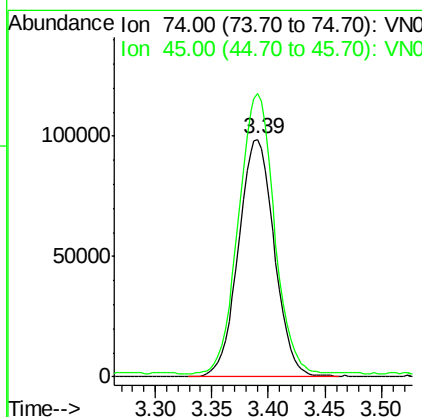
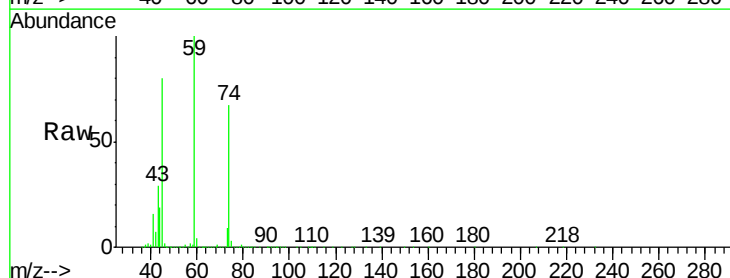
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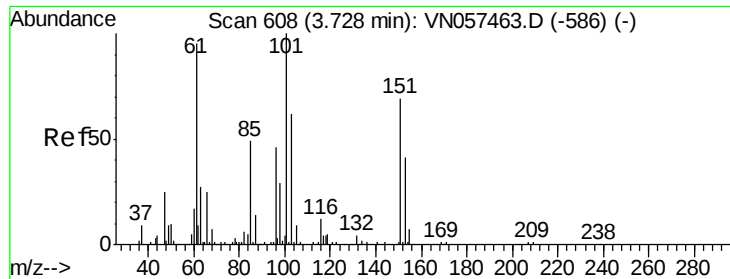


#8

Diethyl Ether
Concen: 75.660 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.9	23.2	209.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 70.993 ug/l

RT: 3.73 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

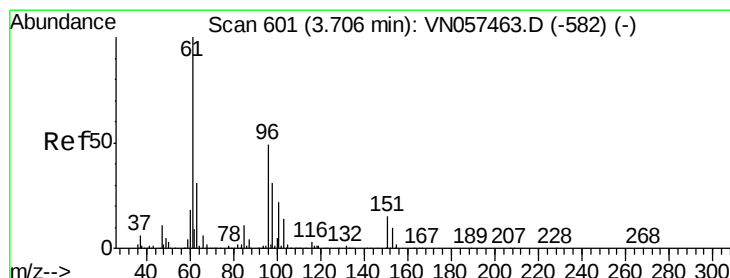
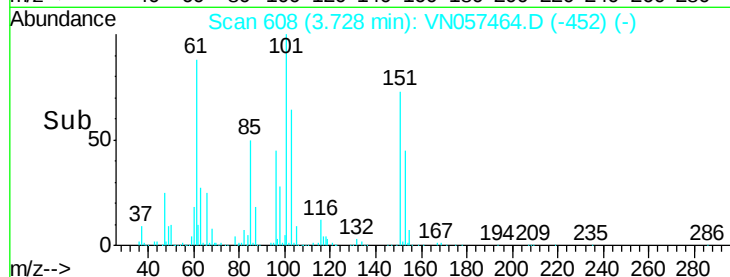
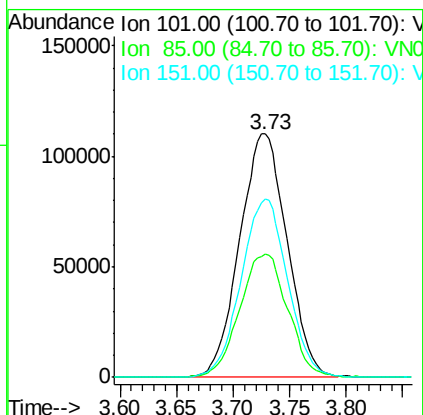
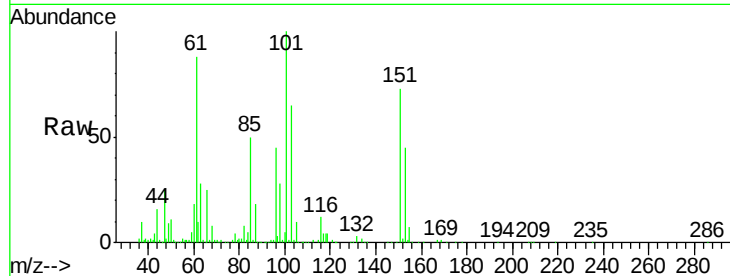
ClientSampled :

VSTDIC050

Tot Ion:	101	Resp:	319168
Ion Ratio	Lower	Upper	
101	100		
85	51.6	0.0	101.6
151	72.4	0.0	139.4

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 69.947 ug/l

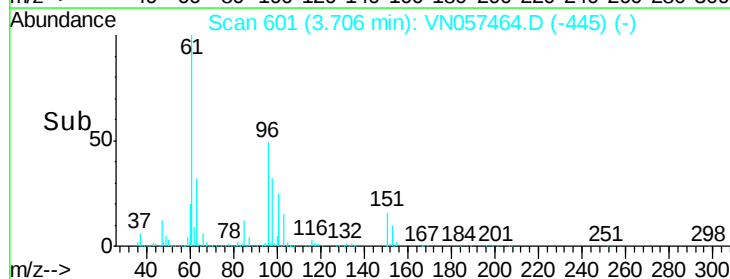
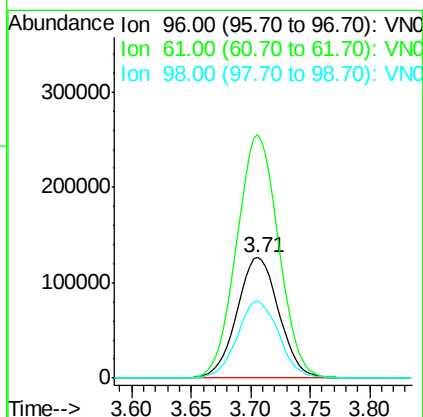
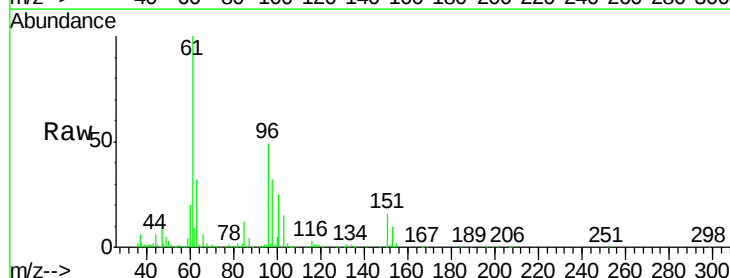
RT: 3.71 min Scan# 601

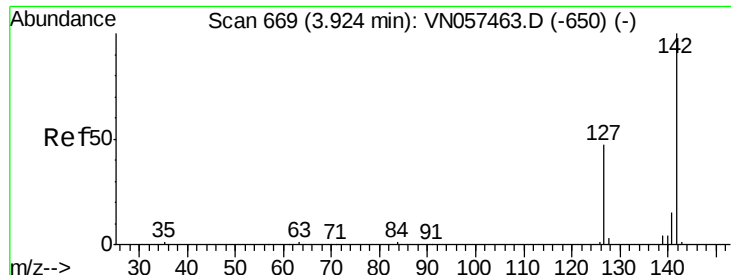
Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion:	96	Resp:	307818
Ion Ratio	Lower	Upper	
96	100		
61	202.7	162.6	244.0
98	64.0	51.1	76.7





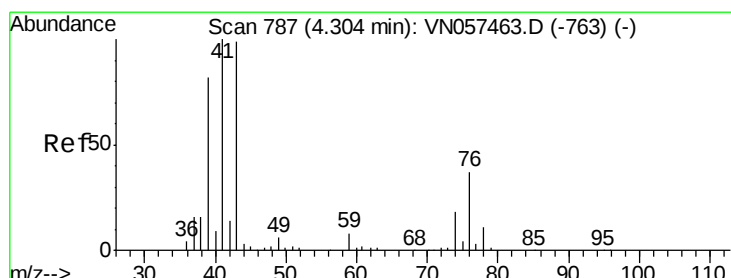
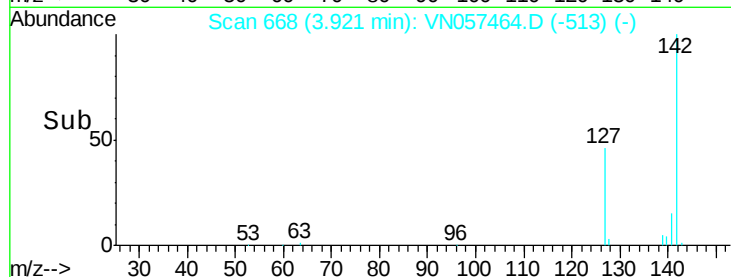
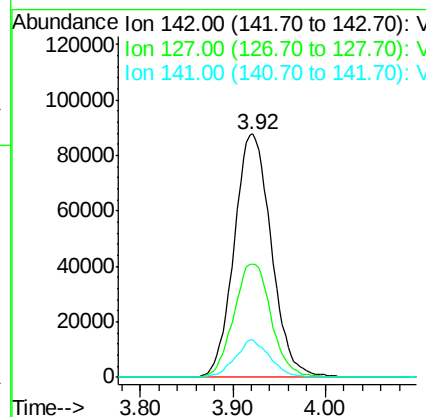
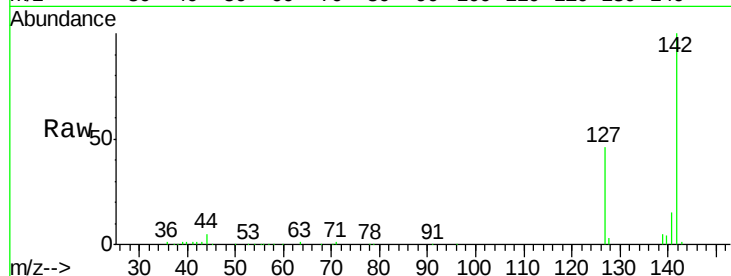
#11
Methvl Iodide
Concen: 38.957 ug/l
RT: 3.92 min Scan# 668
Delta R.T. -0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
142	100		
127	46.5	24.0	72.0
141	15.5	7.0	21.1

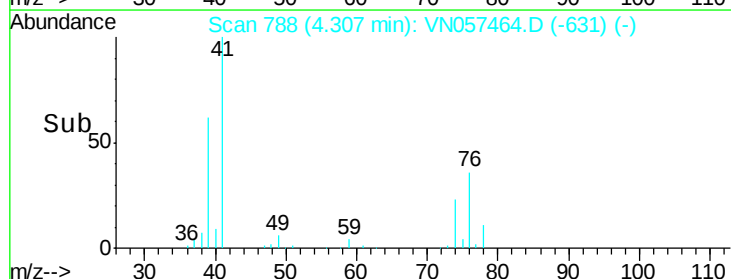
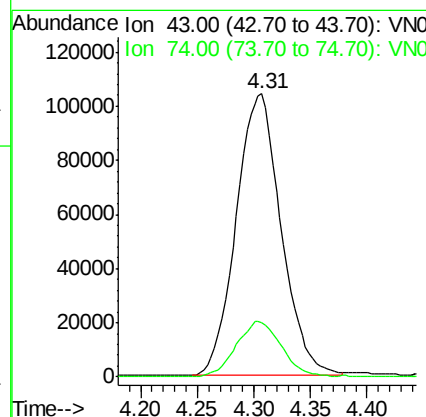
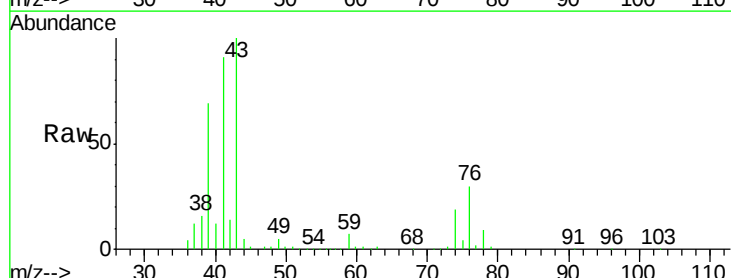
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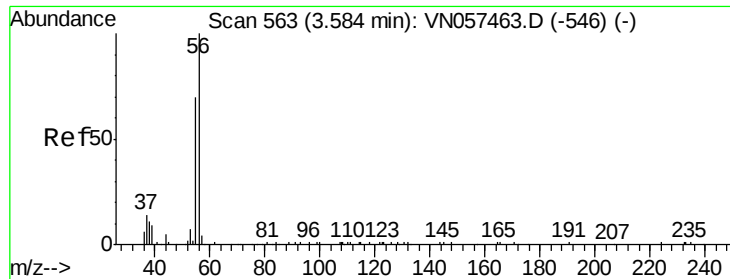
MMDadoda
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#12
Methyl Acetate
Concen: 59.298 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.1	14.6	22.0





#13

Acrolein

Concen: 390.523 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 56 Resp: 198571

Ion Ratio Lower Upper

56 100

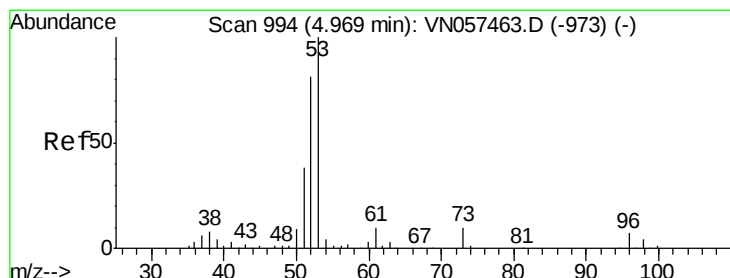
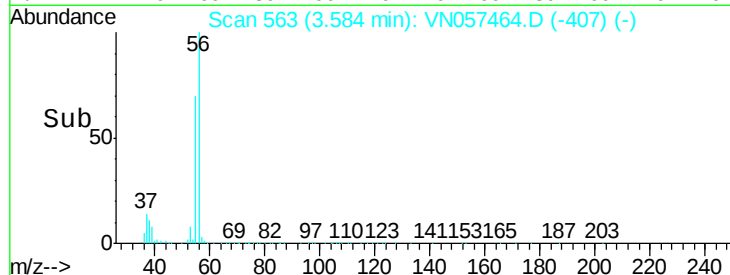
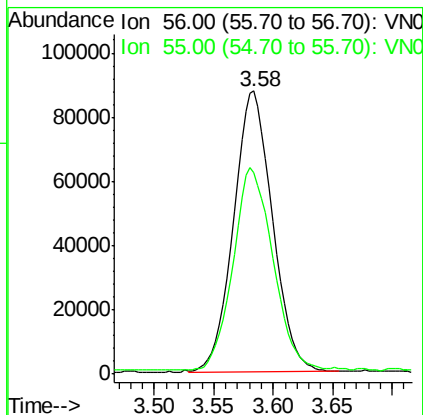
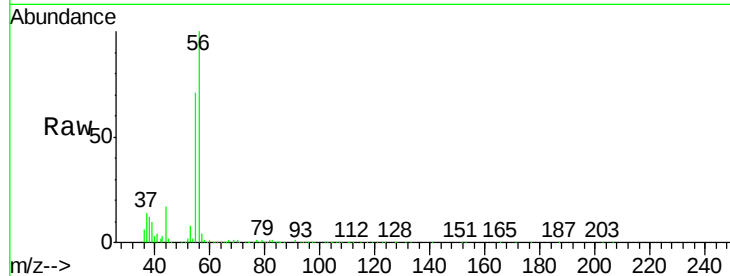
55 72.8 56.7 85.1

Manual Integrations

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#14

Acrylonitrile

Concen: 289.812 ug/l

RT: 4.96 min Scan# 992

Delta R.T. -0.01 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

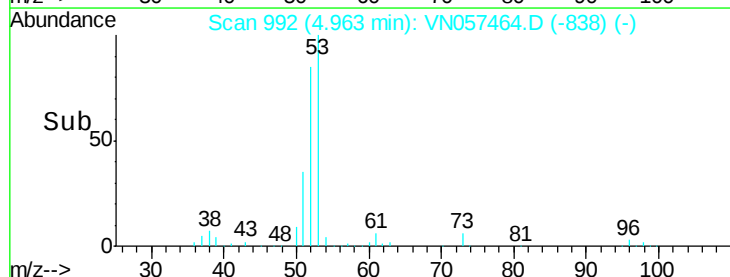
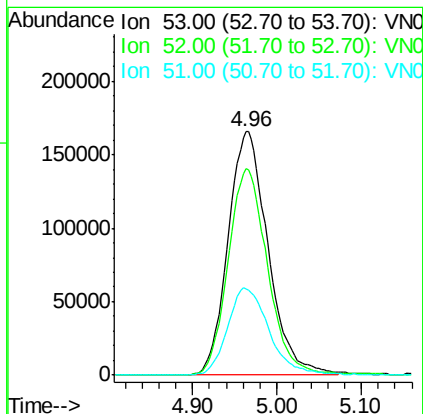
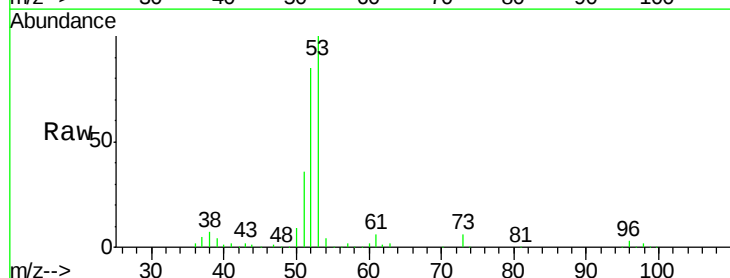
Tgt Ion: 53 Resp: 543684

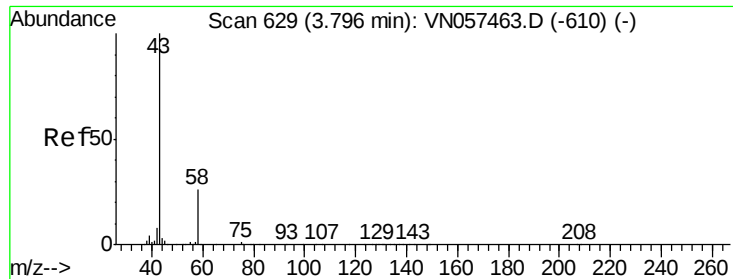
Ion Ratio Lower Upper

53 100

52 83.4 41.3 123.9

51 37.4 18.3 54.9





#15

Acetone

Concen: 402.701 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 58 Resp: 262197

Ion Ratio Lower Upper

58 100

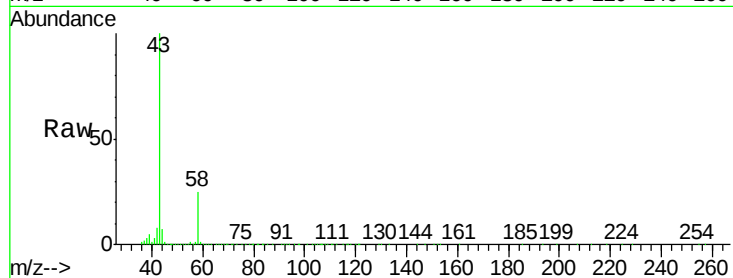
43 401.9 304.4 456.6

Manual Integrations

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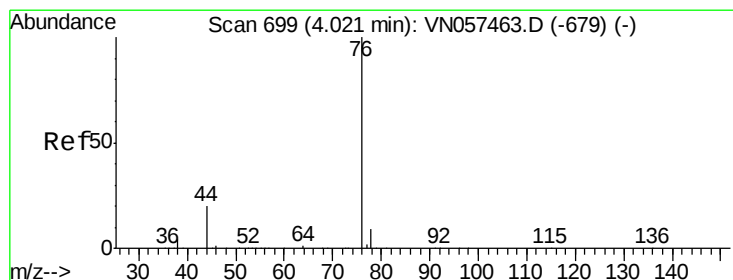
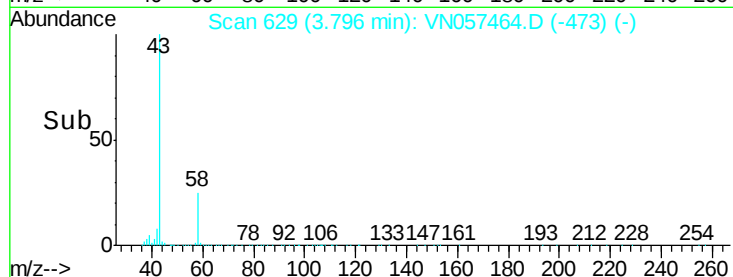
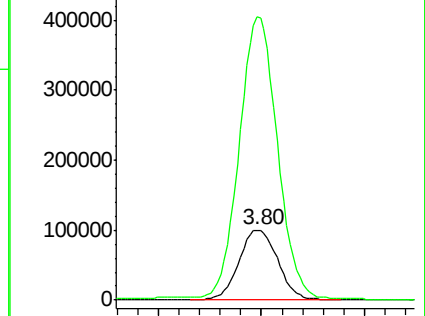
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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 50.596 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.00 min

Lab File: VN057464.D

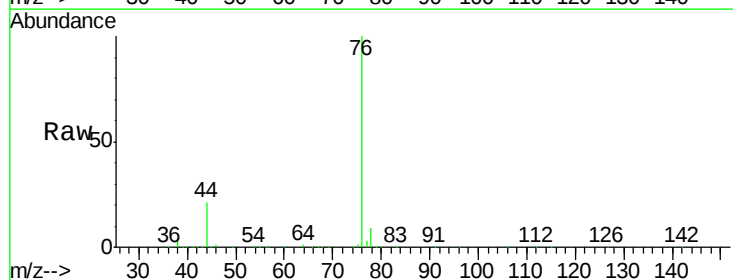
Acq: 23 Aug 2019 10:03

Tgt Ion: 76 Resp: 547531

Ion Ratio Lower Upper

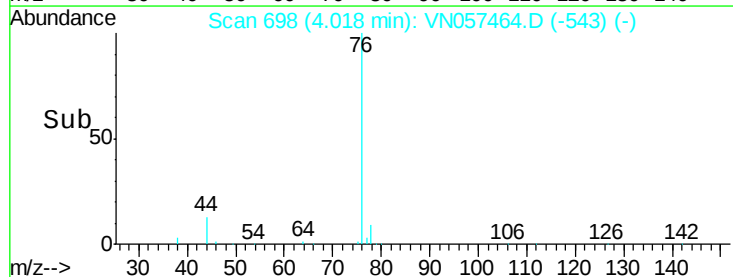
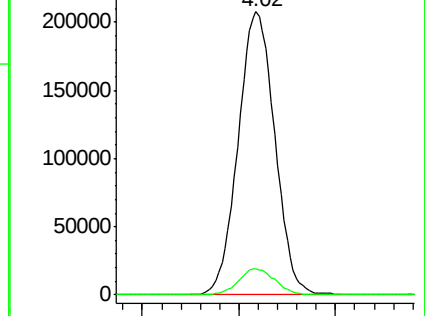
76 100

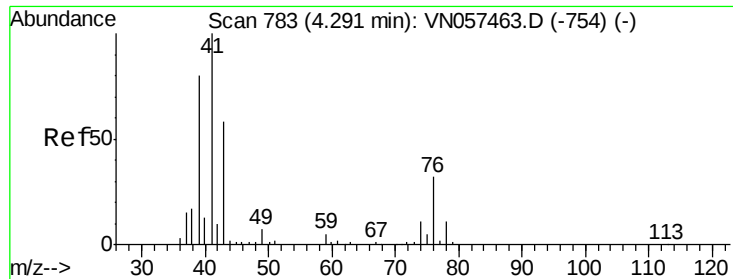
78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





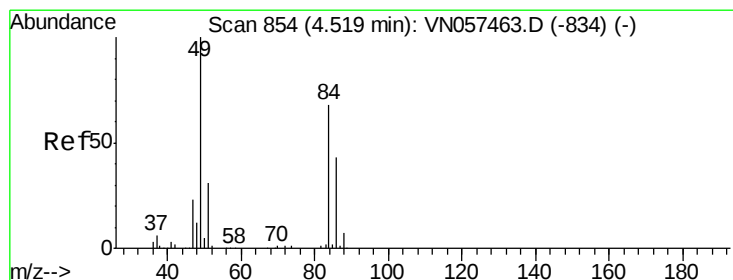
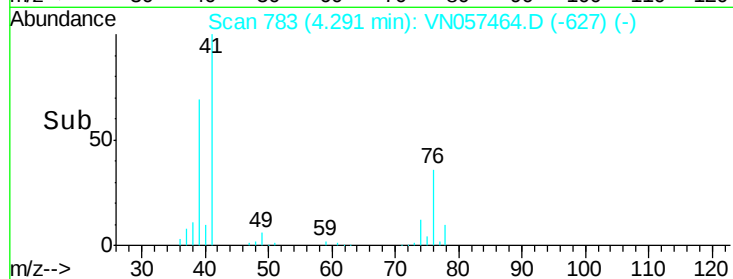
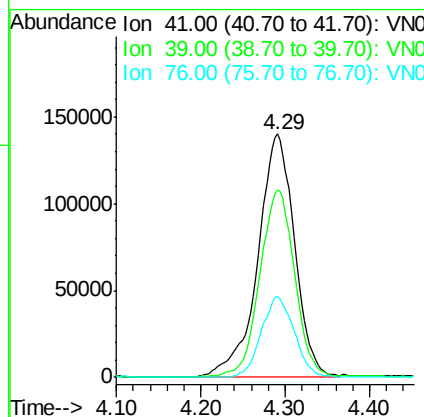
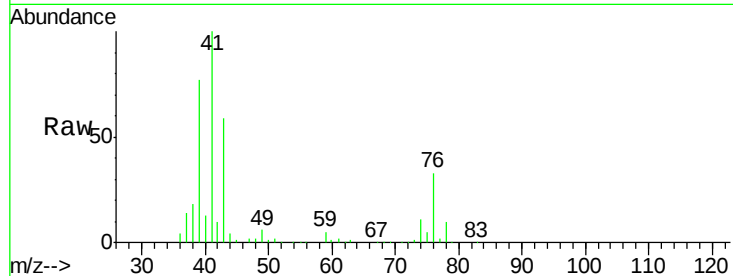
#17
Allvl chloride
Concen: 66.440 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	76.7	40.1	120.2
76	33.4	16.2	48.6

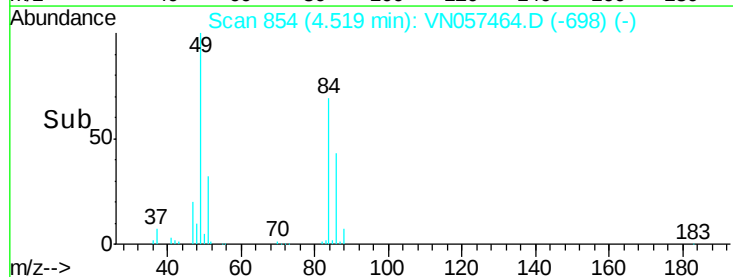
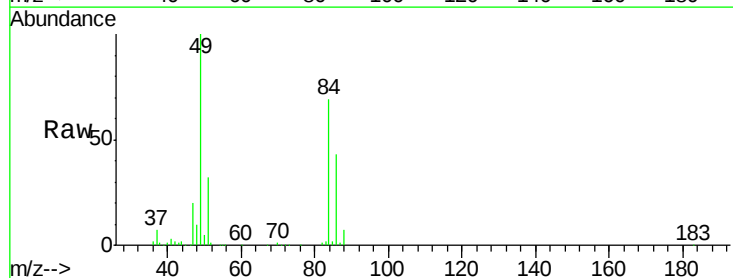
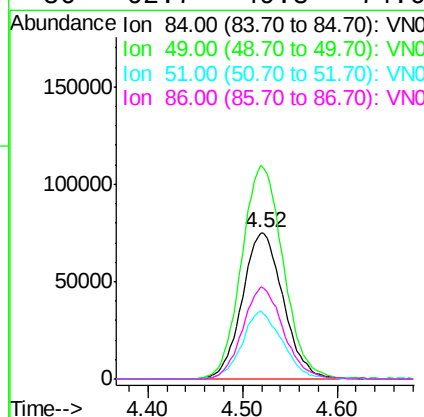
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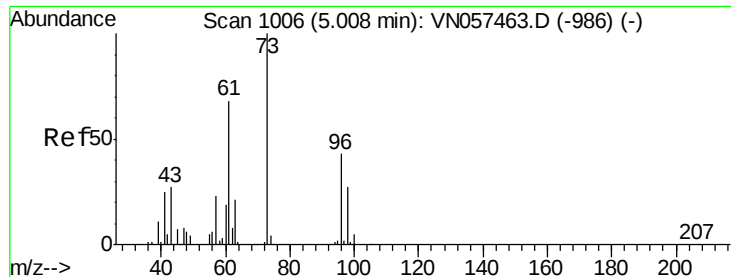
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#18
Methylene Chloride
Concen: 50.325 ug/l
RT: 4.52 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.8	116.8	175.2
51	45.9	36.4	54.6
86	62.7	49.8	74.6





#19

trans-1,2-Dichloroethene

Concen: 50.064 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

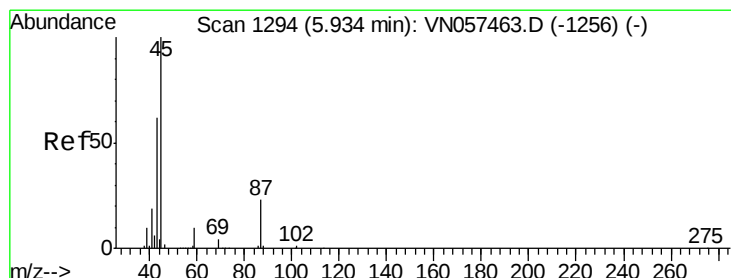
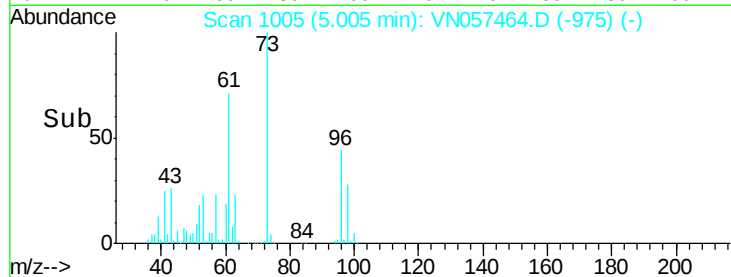
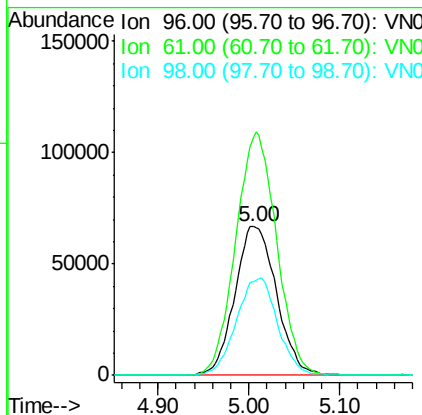
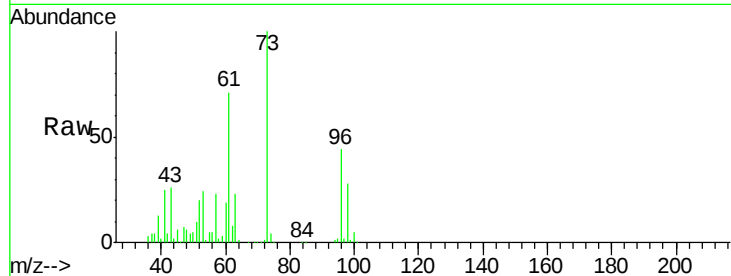
ClientSampleId :

VSTDIC050

Tot Ion:	96	Resp:	212667
Ion	Ratio	Lower	Upper
96	100		
61	160.5	127.6	191.4
98	63.5	51.5	77.3

Manual Integrations
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#20

Diisopropyl ether

Concen: 67.924 ug/l

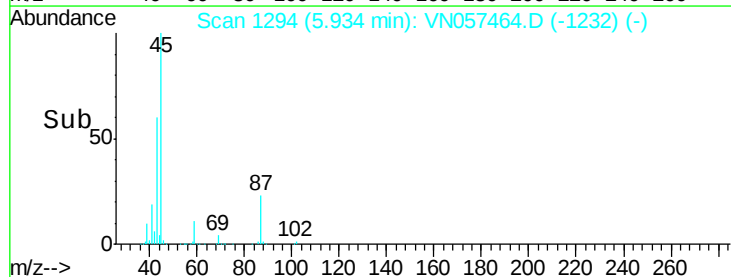
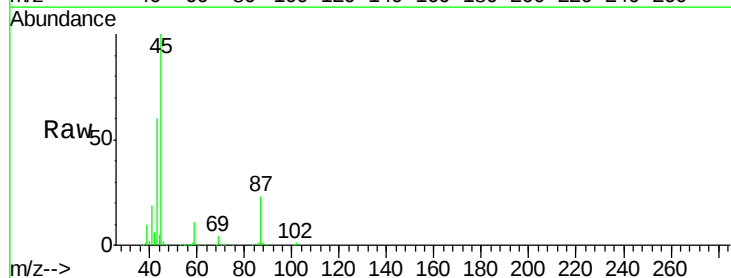
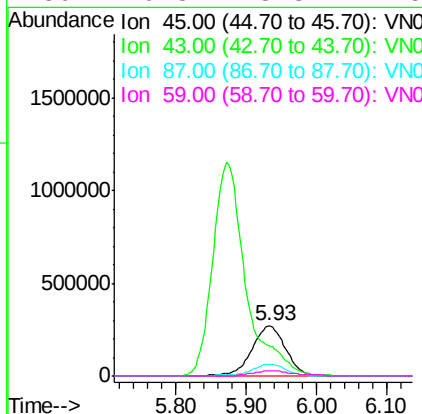
RT: 5.93 min Scan# 1294

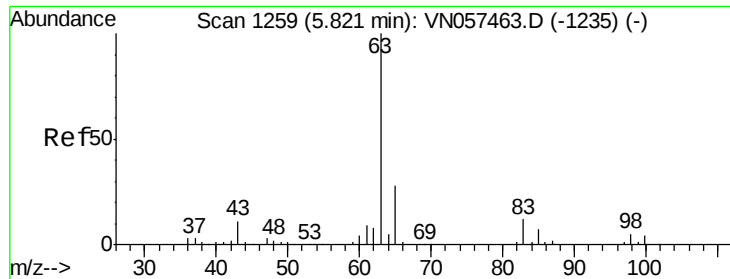
Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion:	45	Resp:	898893
Ion	Ratio	Lower	Upper
45	100		
43	58.7	49.9	74.9
87	23.3	19.1	28.7
59	10.8	8.3	12.5





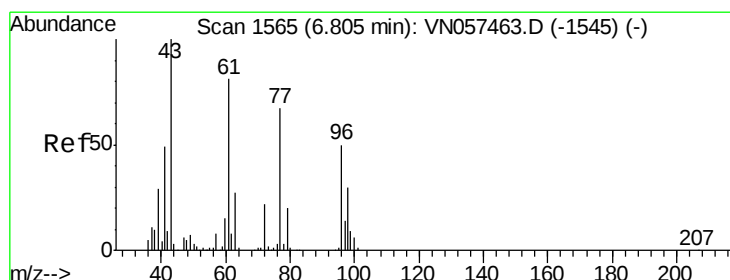
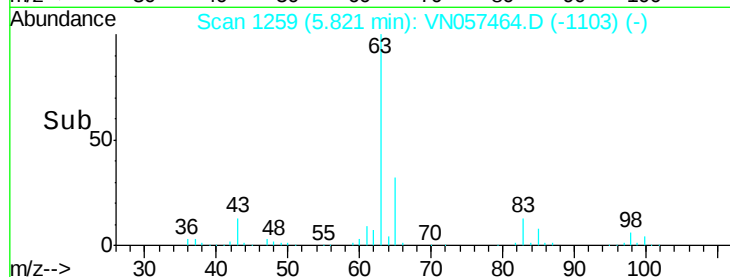
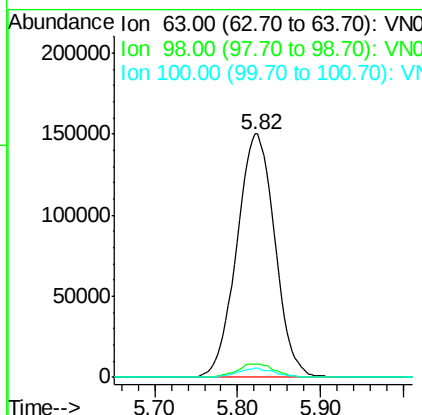
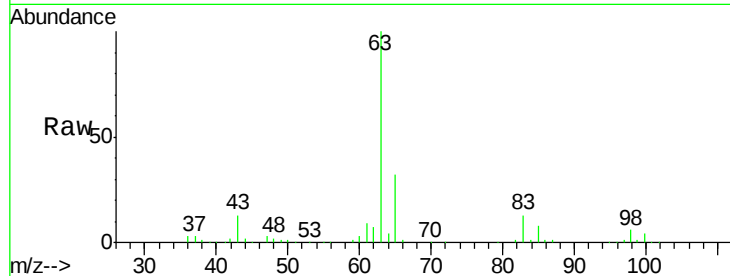
#21
 1,1-Dichloroethane
 Concen: 61.335 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp Lower	Upper
63	100		
98	5.5	2.4	7.1
100	3.7	2.1	6.3

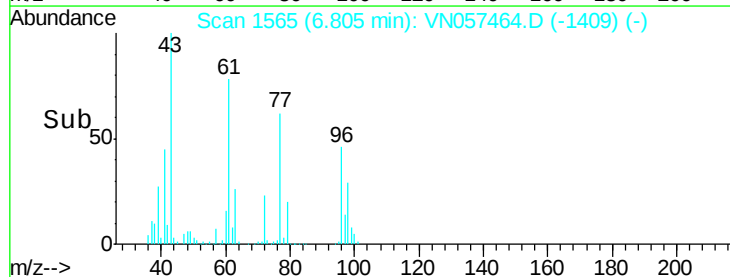
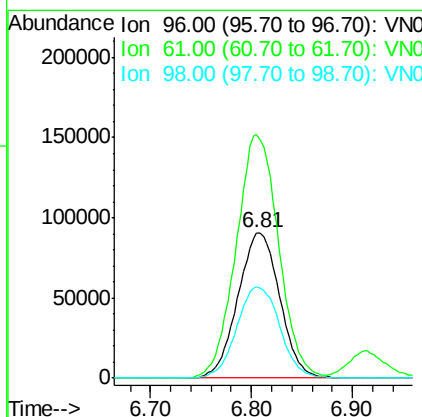
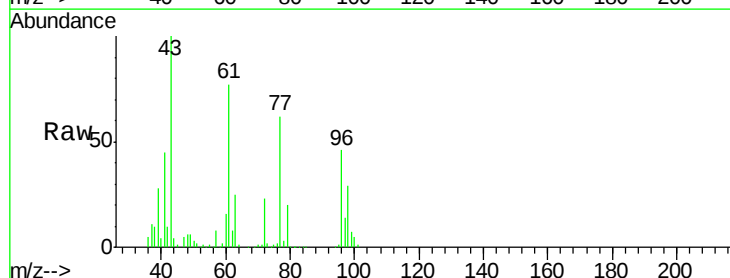
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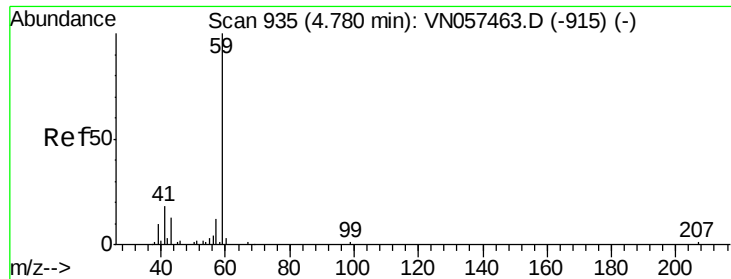
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#22
 cis-1,2-Dichloroethene
 Concen: 52.133 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	170.2	134.4	201.6
98	64.7	51.4	77.0





#23

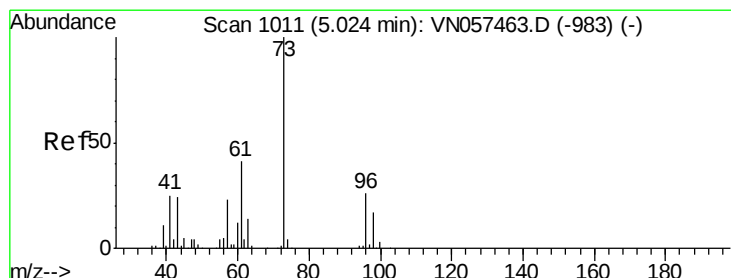
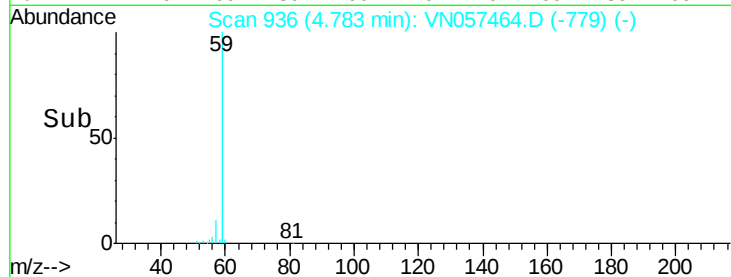
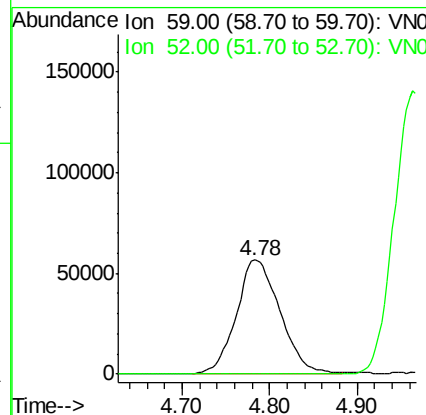
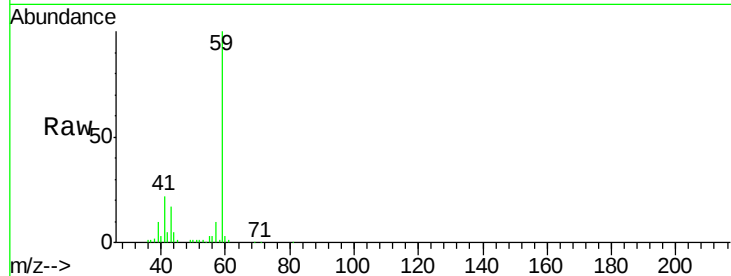
tert-Butyl Alcohol
 Concen: 290.585 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	59	Ratio	Lower	Upper
195467	100			
52	0.1	0.1	0.1	

Manual Integrations
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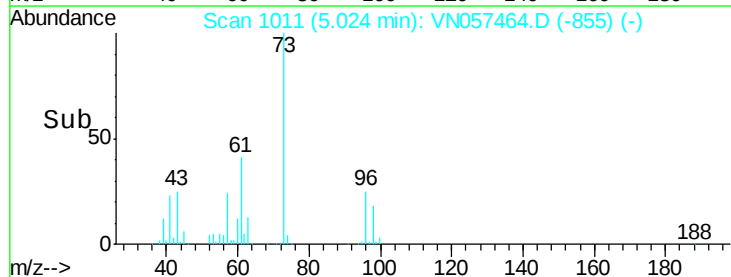
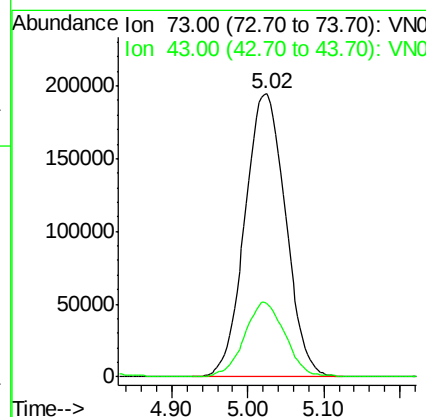
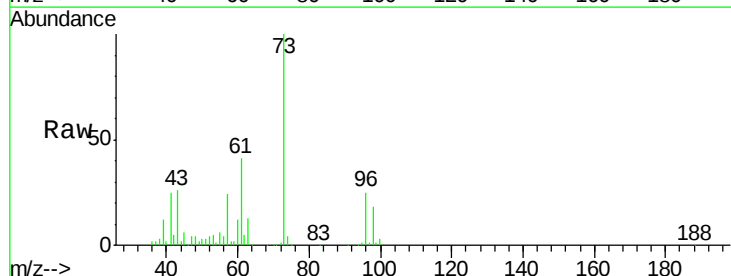
MMDadoda
 8/26/2019 1:11:54 PM

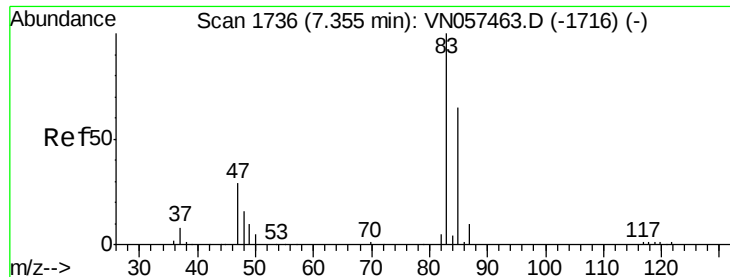


#24

Methyl tert-Butyl Ether
 Concen: 57.741 ug/l
 RT: 5.02 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	73	Ratio	Lower	Upper
725202	100			
43	25.8	20.1	30.1	





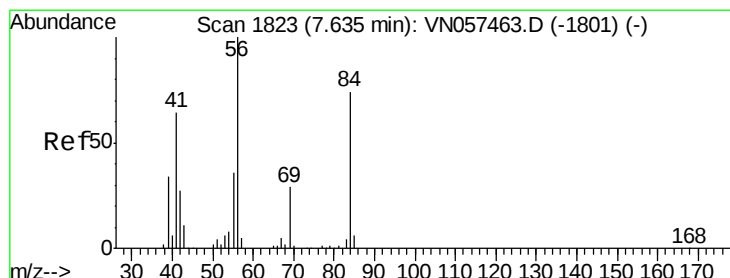
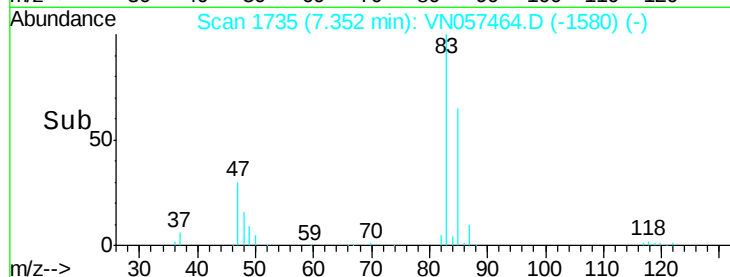
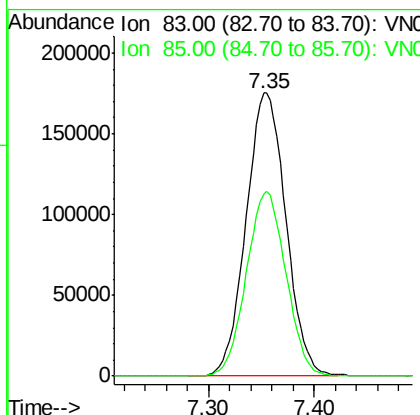
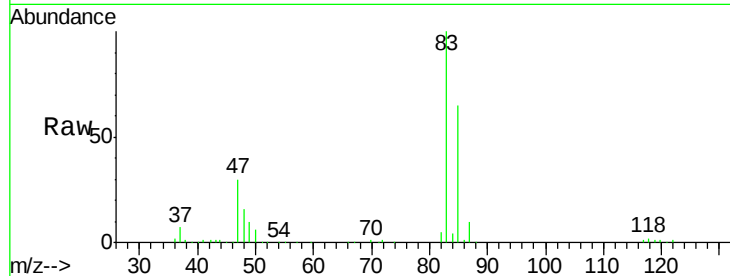
#25
Chloroform
Concen: 57.380 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	83	Resp	460819
Ion Ratio	100	Lower	Upper
83	100		
85	64.6	52.0	78.0

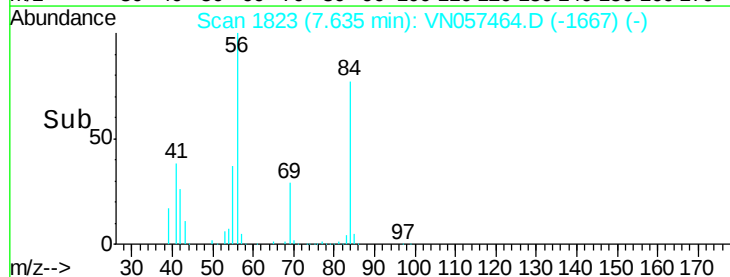
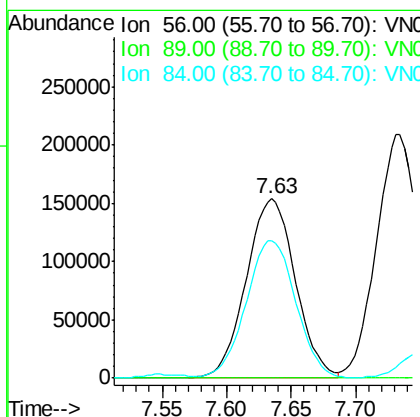
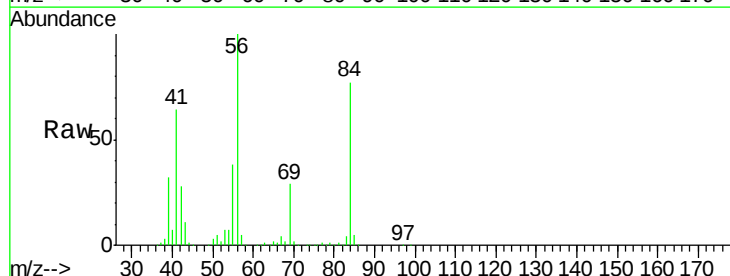
Manual Integrations
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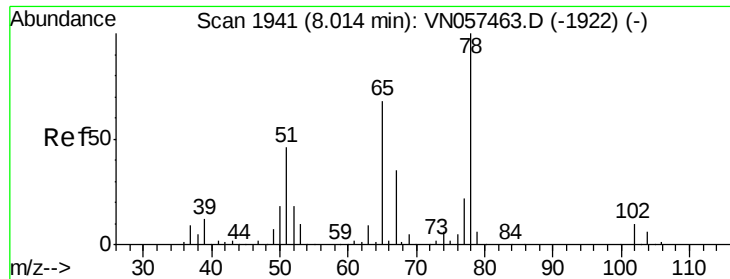
MMDadoda
8/26/2019 1:11:54 PM



#26
Cyclohexane
Concen: 61.853 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	56	Resp	406584
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0#
84	78.2	61.1	91.7





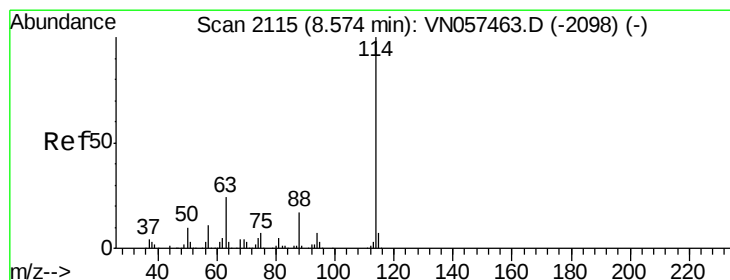
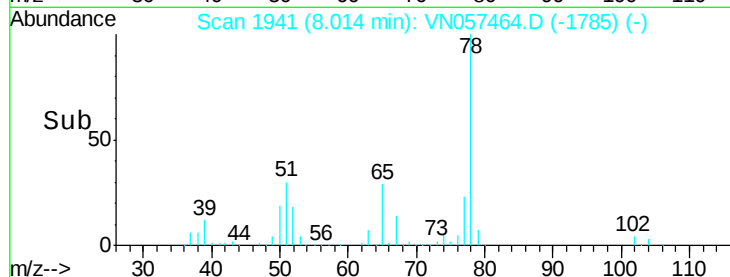
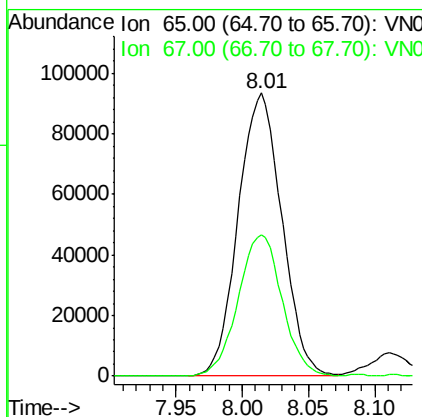
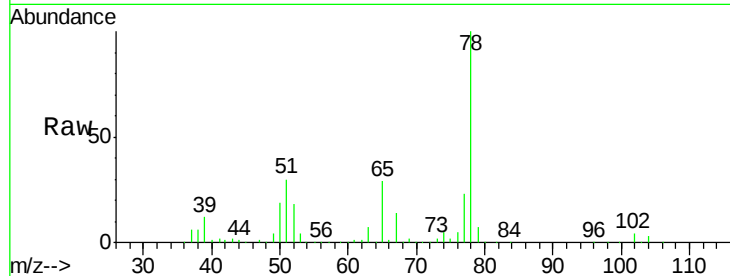
#27
 1,2-Dichloroethane-d4
 Concen: 41.357 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	213965		
67	50.2		40.2	60.4

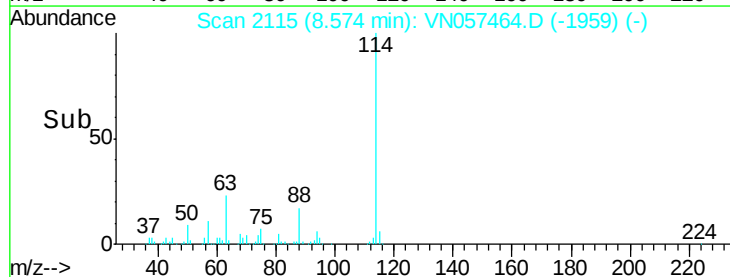
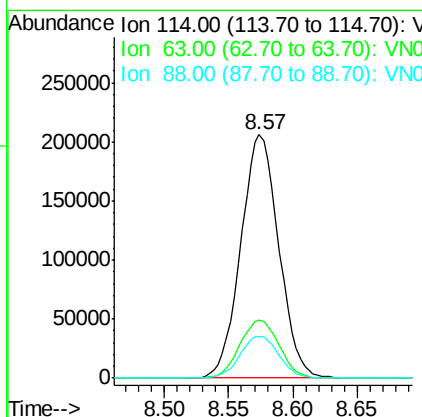
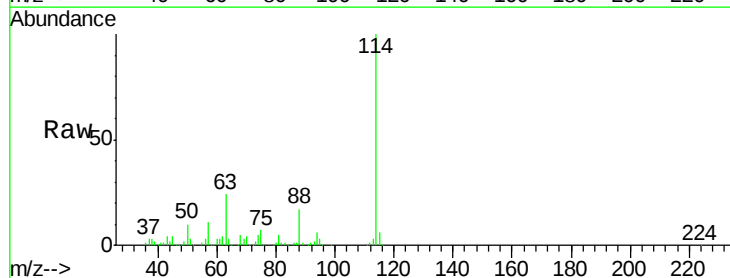
Manual Integrations
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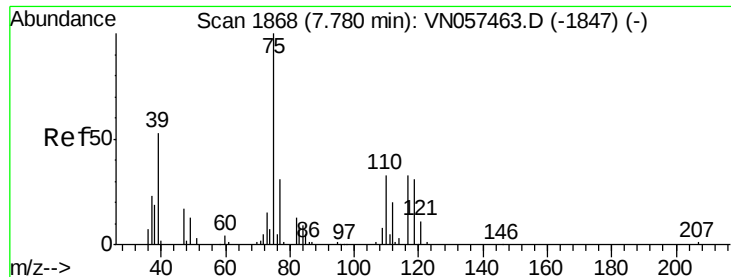
MMDadoda
 8/26/2019 1:11:54 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	423069		
63	24.6		19.6	29.4
88	17.5		13.1	19.7





#29

1,1-Dichloropropene

Concen: 54.780 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

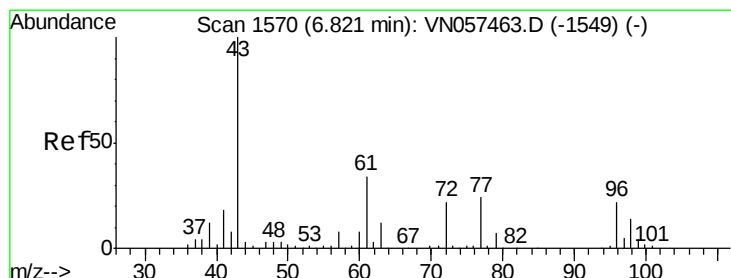
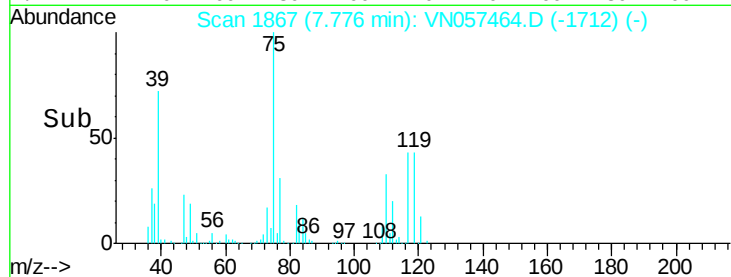
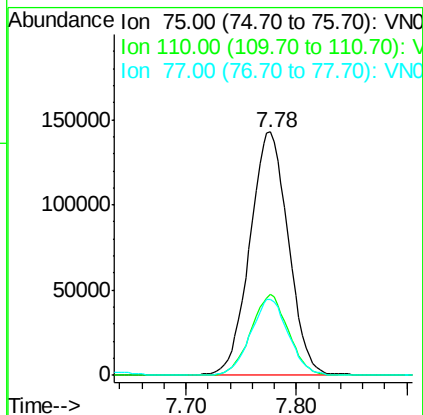
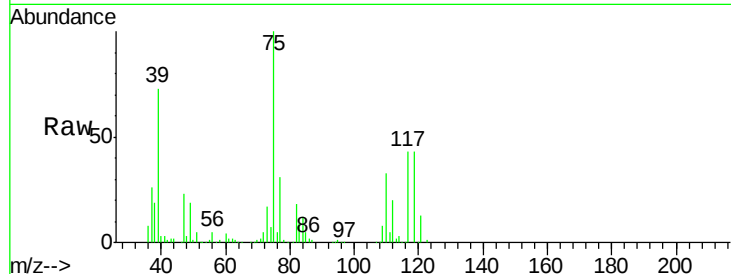
ClientSampleId :

VSTDIC050

Tot Ion:	75	Resp:	344785
Ion Ratio	Lower	Upper	
75	100		
110	32.3	0.0	64.0
77	31.0	0.0	63.4

Manual Integrations
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8/26/2019 1:11:54 PM



#30

2-Butanone

Concen: 323.943 ug/l

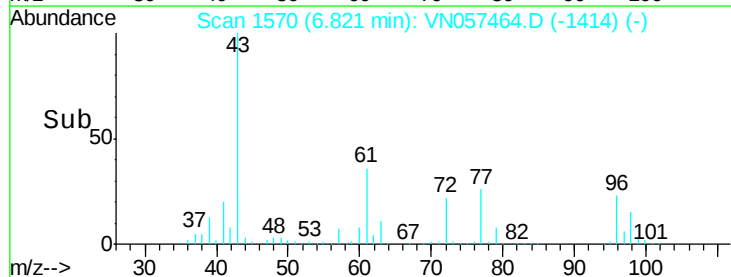
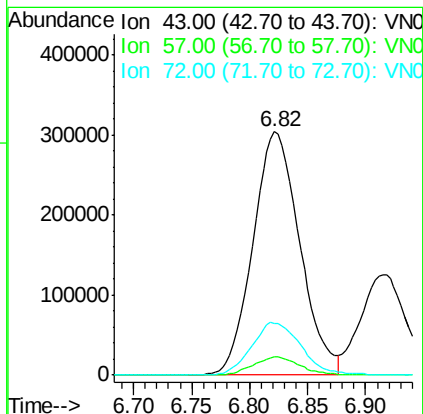
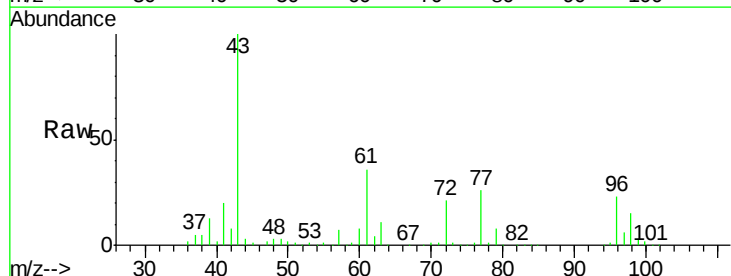
RT: 6.82 min Scan# 1570

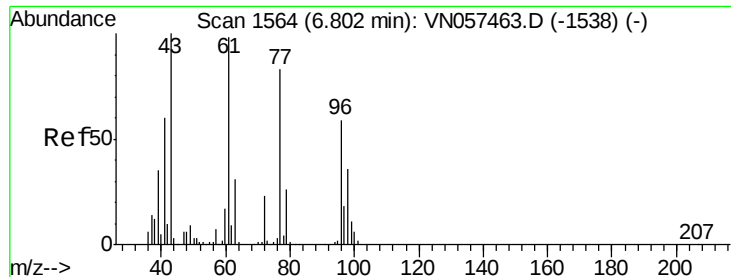
Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion:	43	Resp:	851175
Ion Ratio	Lower	Upper	
43	100		
57	7.6	5.7	8.5
72	22.9	18.2	27.2





#31

2,2-Dichloropropane

Concen: 56.986 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion: 77 Resp: 397107

Ion Ratio Lower Upper

77 100

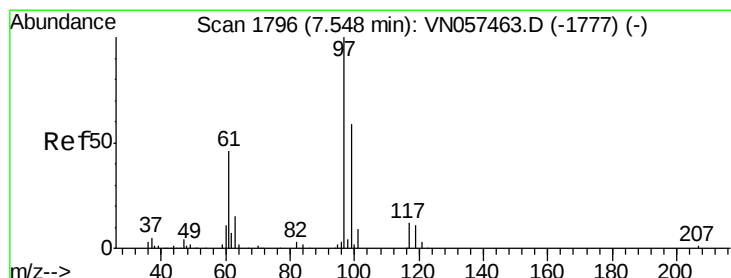
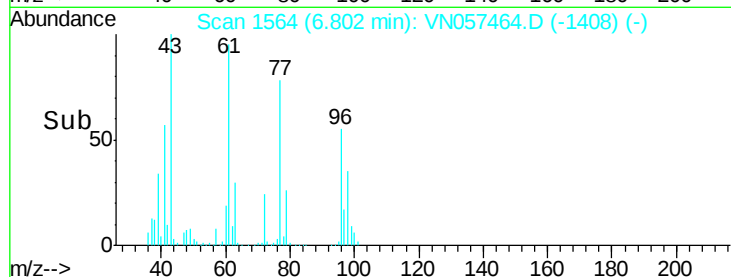
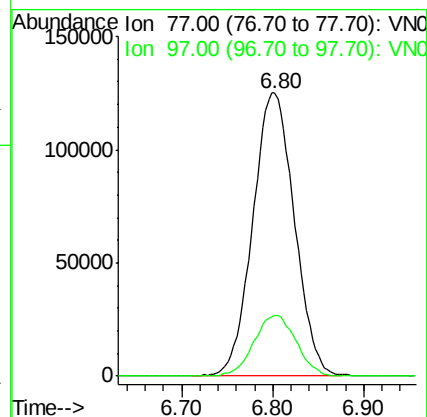
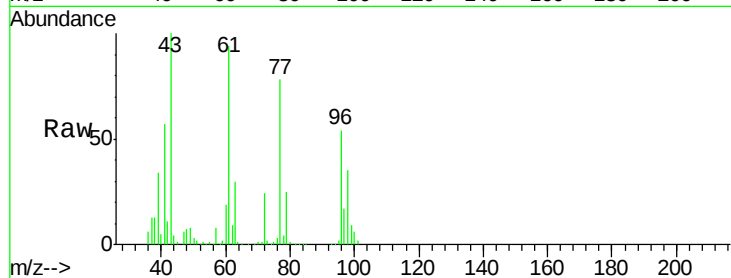
97 21.9 17.0 25.4

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 53.840 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.01 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

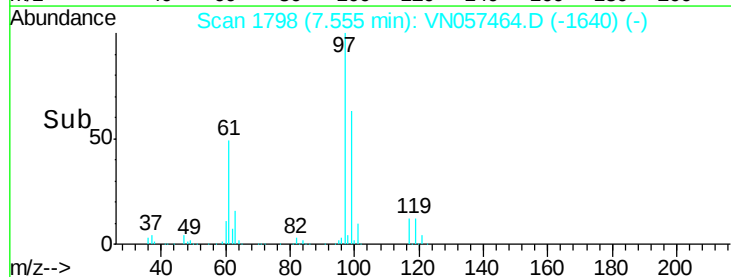
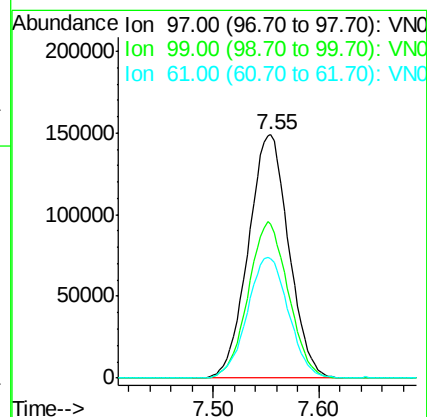
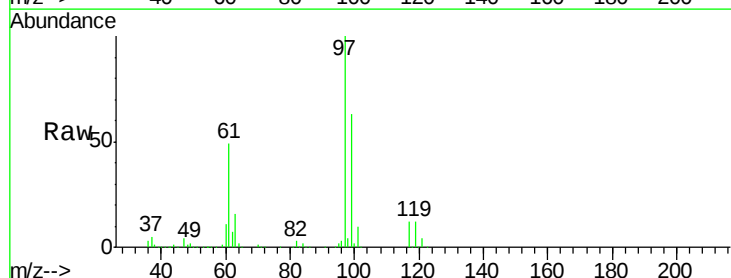
Tgt Ion: 97 Resp: 396797

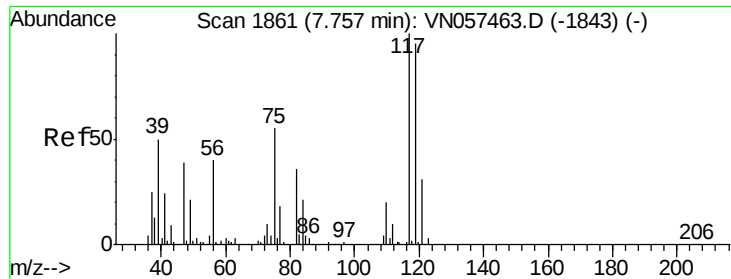
Ion Ratio Lower Upper

97 100

99 63.3 49.6 74.4

61 50.5 40.9 61.3





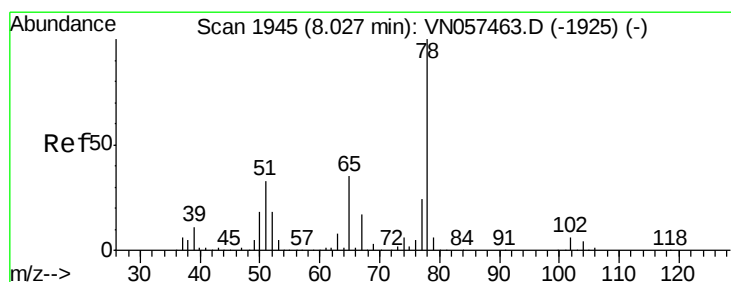
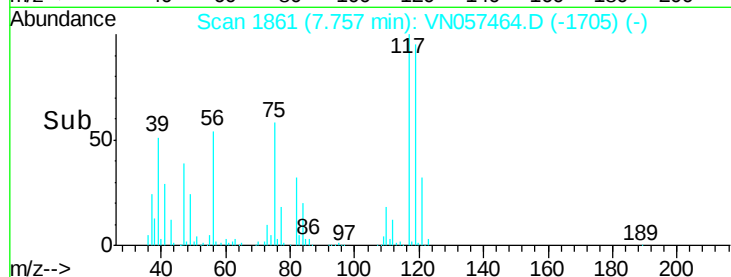
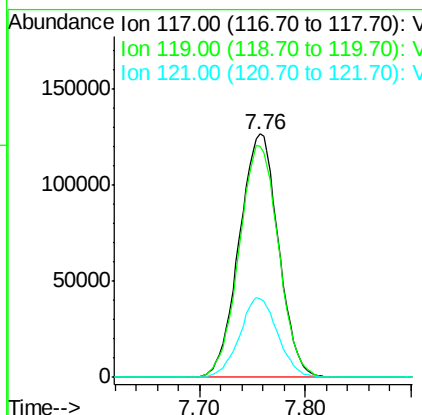
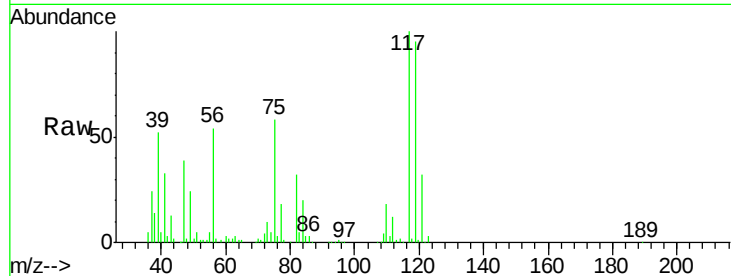
#33
Carbon Tetrachloride
Concen: 50.604 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.8	115.2
121	32.2	24.8	37.2

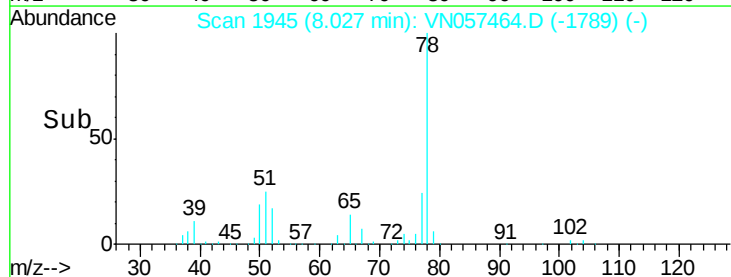
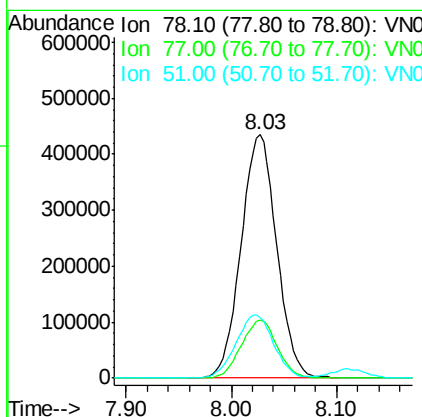
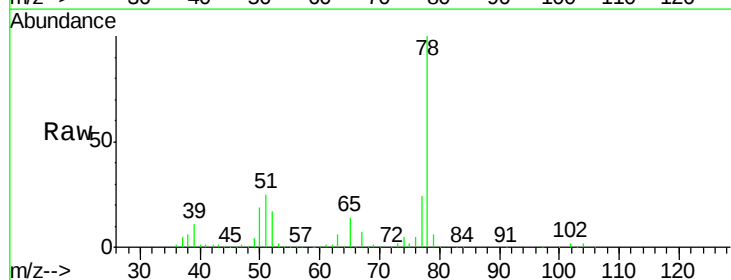
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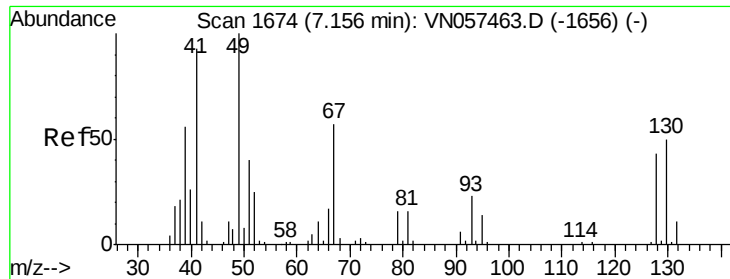
MMDadoda
8/26/2019 1:11:54 PM



#34
Benzene
Concen: 53.699 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.5	29.3
51	24.8	26.0	39.0





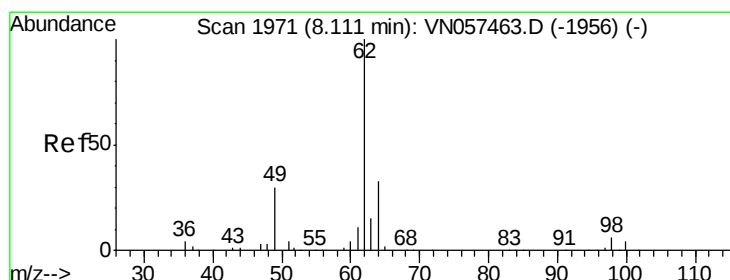
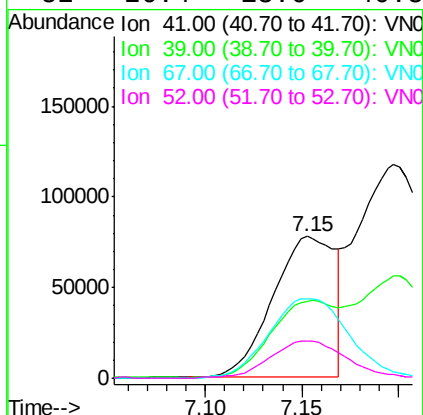
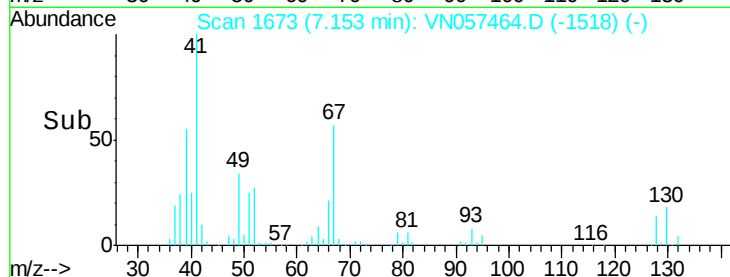
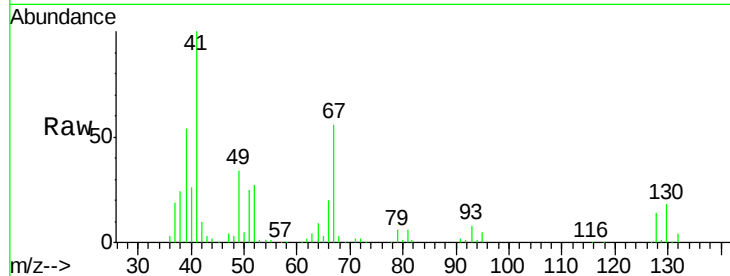
#35
Methacrylonitrile
Concen: 50.852 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	41	Resp	174022
Ion Ratio	Lower	Upper	
41	100		
39	54.4	30.5	91.5
67	56.6	30.9	92.5
52	26.4	13.6	40.8

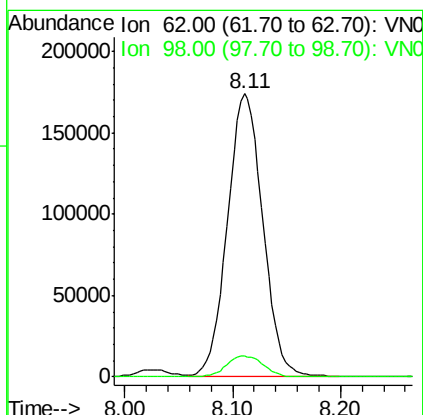
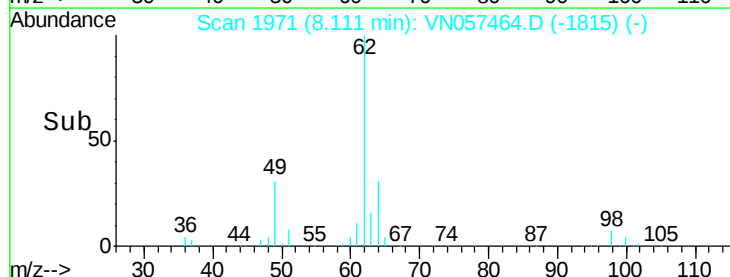
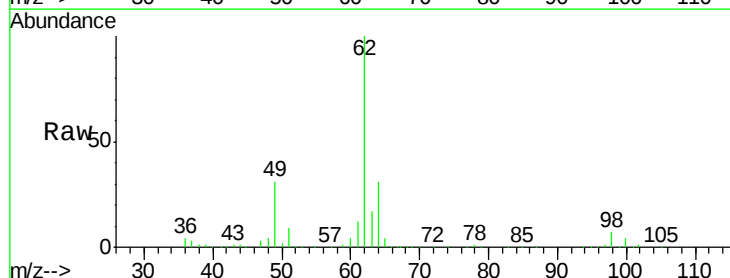
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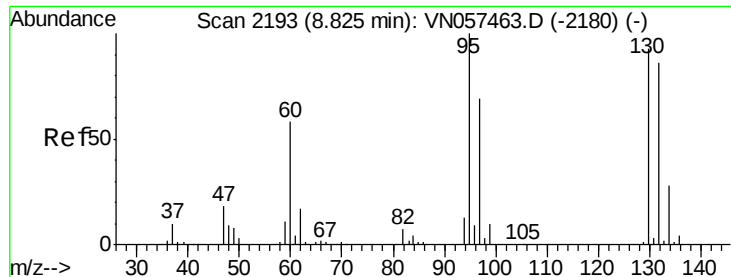
MMDadoda
8/26/2019 1:11:54 PM



#36
1,2-Dichloroethane
Concen: 61.352 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	62	Resp	395727
Ion Ratio	Lower	Upper	
62	100		
98	7.7	2.8	4.2#





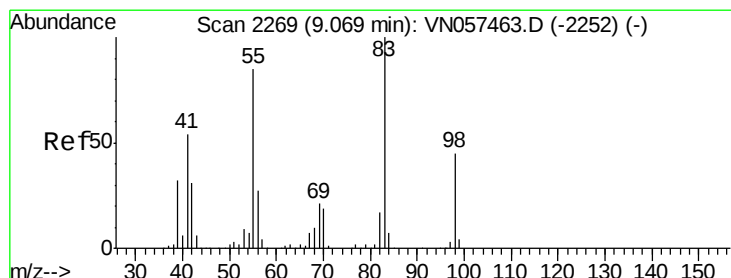
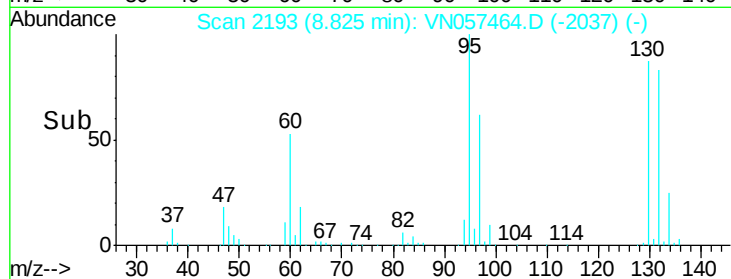
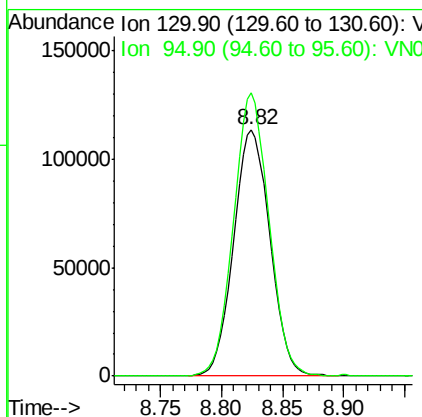
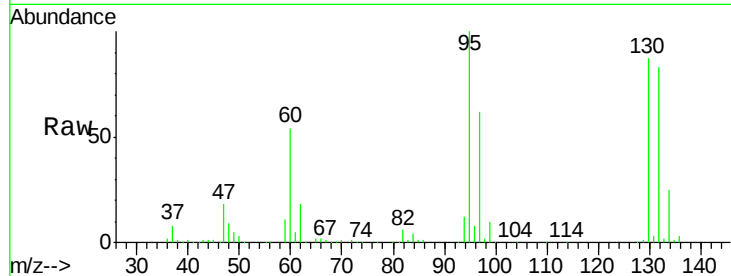
#37
 Trichloroethene
 Concen: 44.407 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		234539		
95	114.9	86.4	129.6		

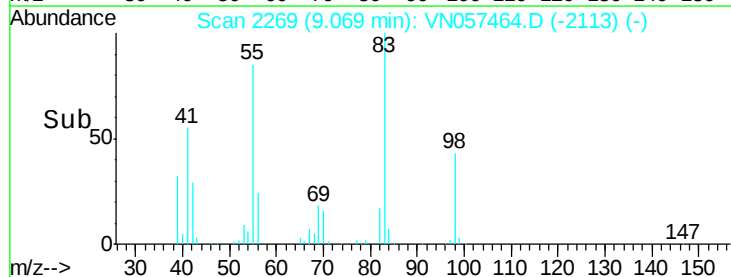
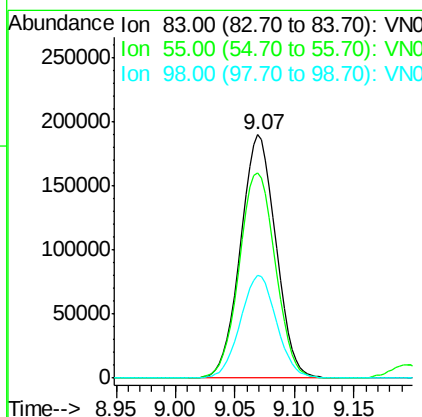
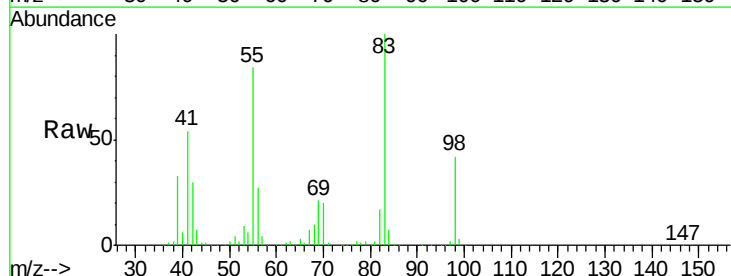
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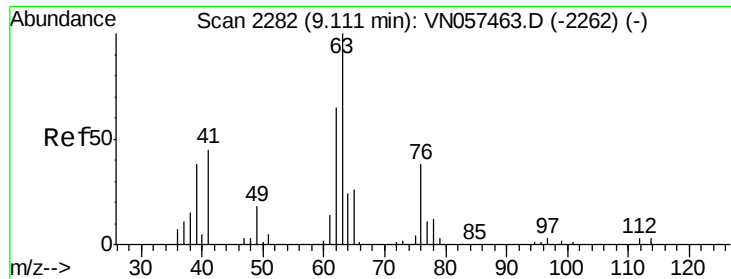
MMDadoda
 8/26/2019 1:11:54 PM



#38
 Methylcyclohexane
 Concen: 53.442 ug/l
 RT: 9.07 min Scan# 2269
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		392417		
55	85.7	43.3	129.8		
98	43.3	22.8	68.4		





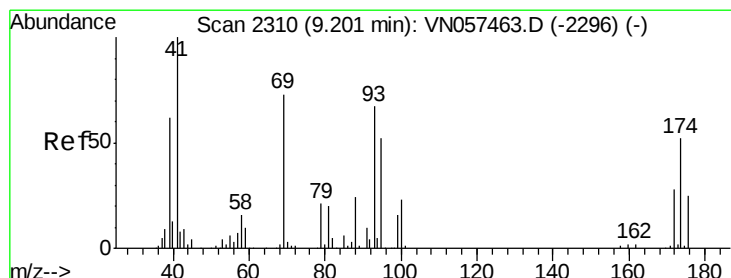
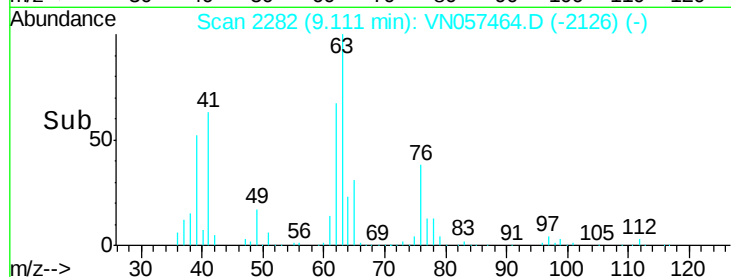
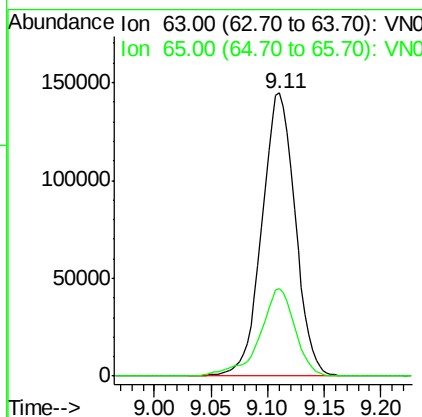
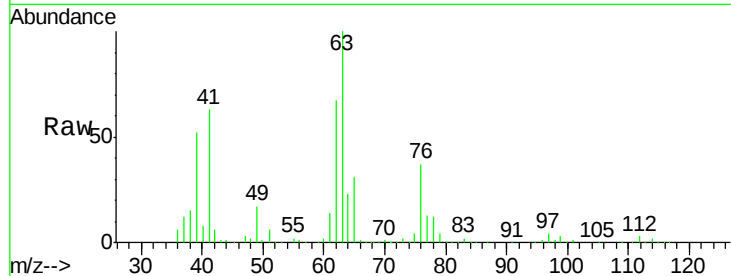
#39
 1,2-Dichloropropane
 Concen: 59.503 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
63	100	295895		
65	31.0		21.6	32.4

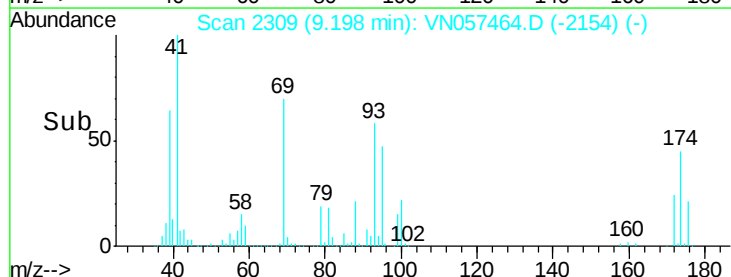
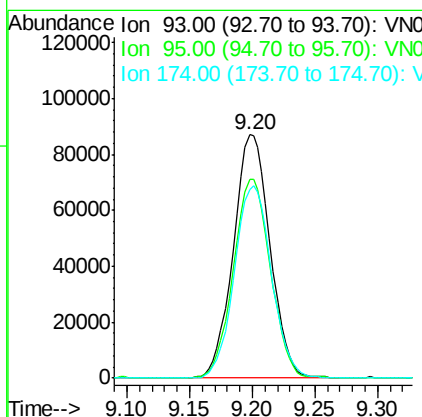
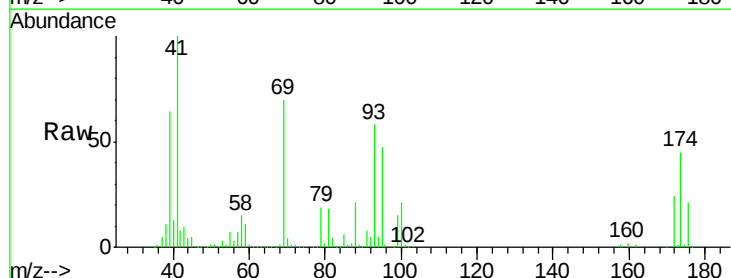
Manual Integrations
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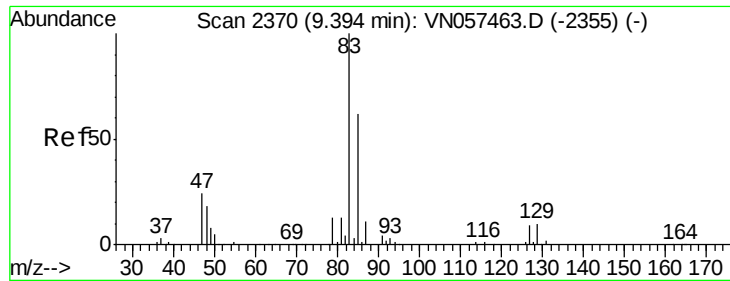
MMDadoda
 8/26/2019 1:11:54 PM



#40
 Dibromomethane
 Concen: 54.680 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	177102		
95	82.7		0.0	160.8
174	79.8		0.0	157.2





#41

Bromodichloromethane

Concen: 57.525 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 83 Resp: 379718

Ion Ratio Lower Upper

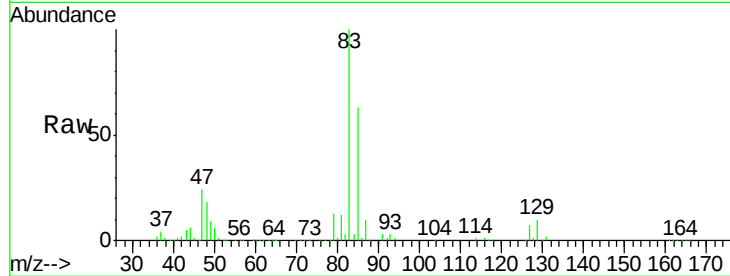
83 100

85 62.8 49.8 74.8

127 7.5 7.6 11.4#

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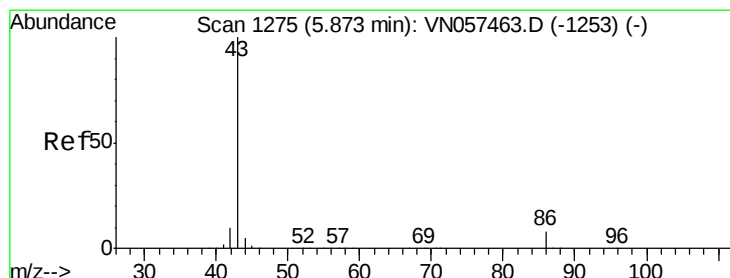
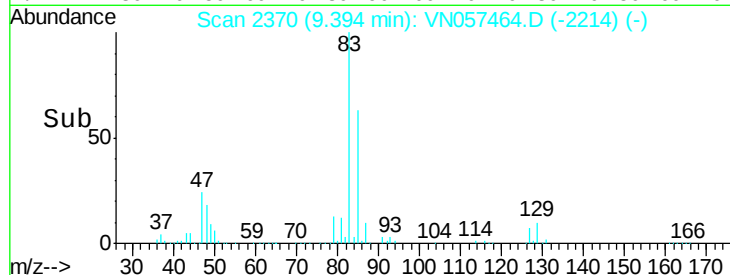
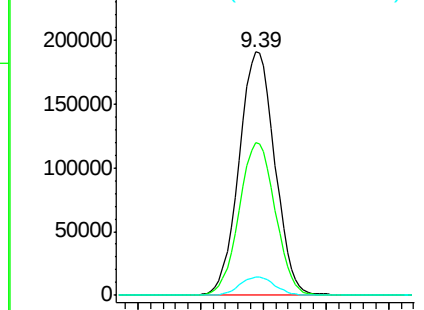
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 339.988 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN057464.D

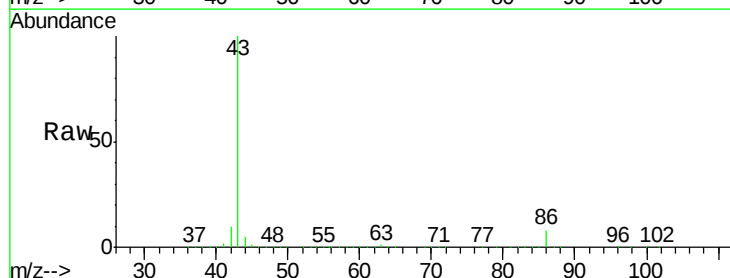
Acq: 23 Aug 2019 10:03

Tgt Ion: 43 Resp: 3784201

Ion Ratio Lower Upper

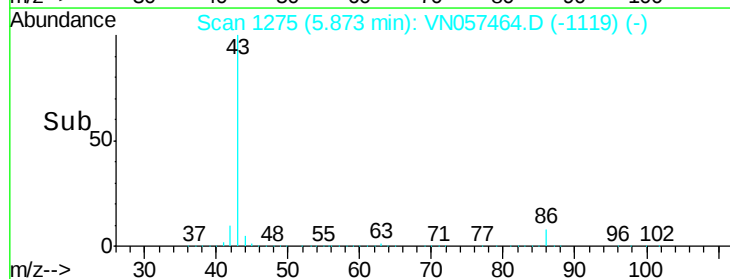
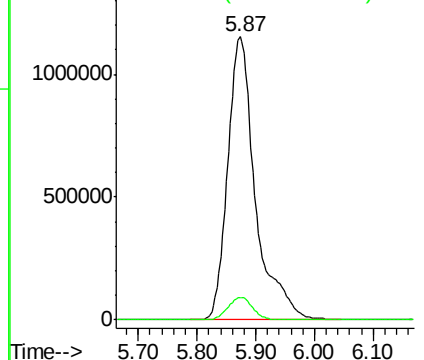
43 100

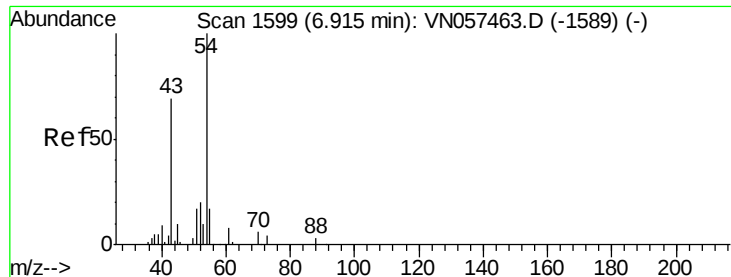
86 7.1 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





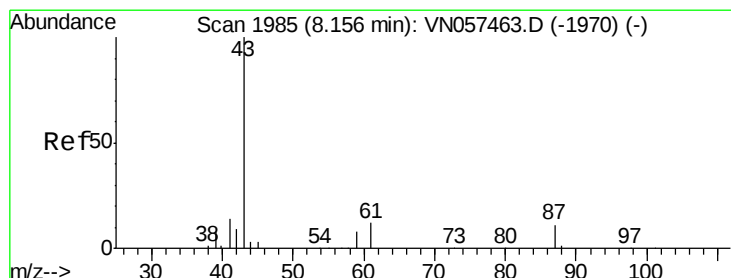
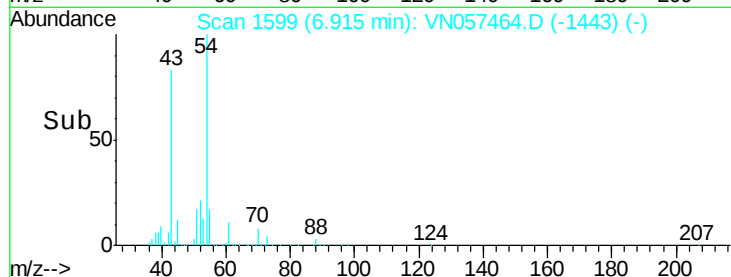
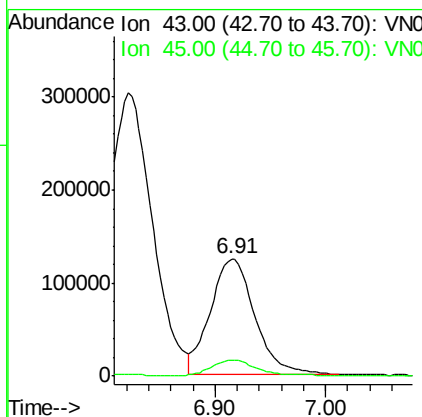
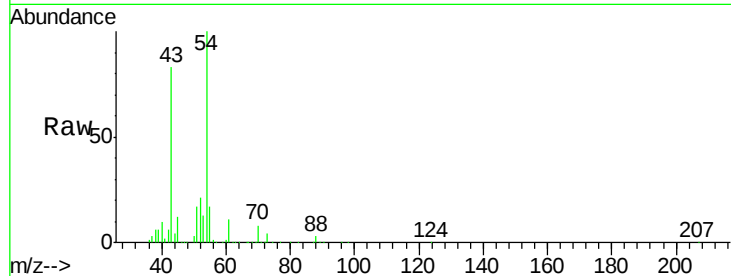
#43
Ethyl Acetate
Concen: 65.653 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	43	Ratio	Lower	Upper
347441	100			
45	13.5	11.0	16.4	

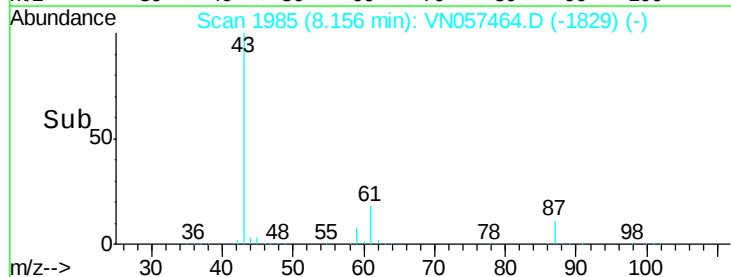
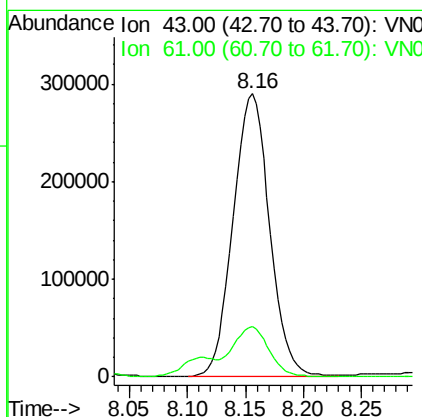
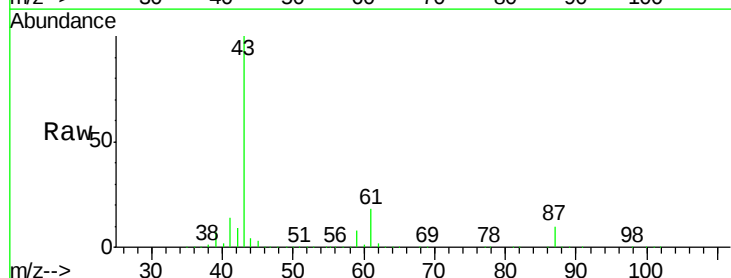
Manual Integrations
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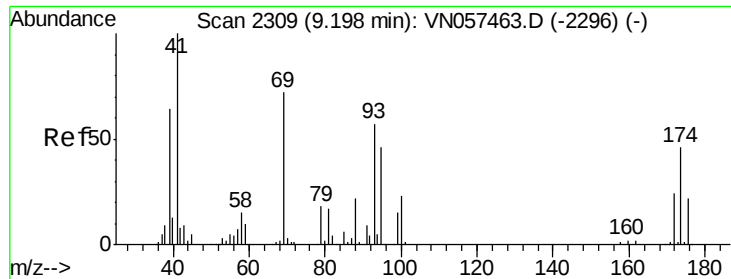
MMDadoda
8/26/2019 1:11:54 PM



#44
Isopropyl Acetate
Concen: 66.332 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	43	Ratio	Lower	Upper
628617	100			
61	17.2	0.1	0.1#	





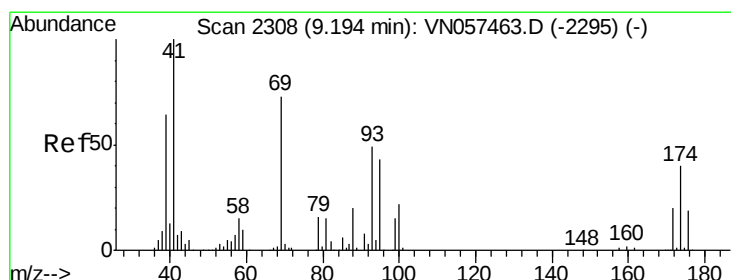
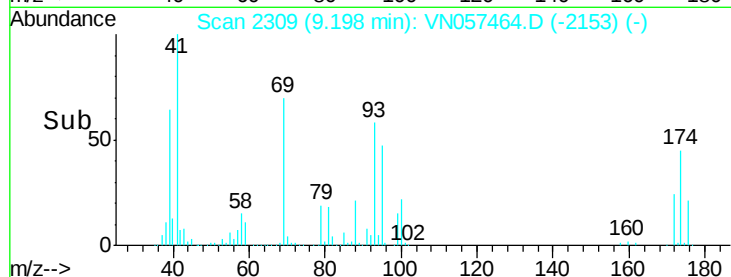
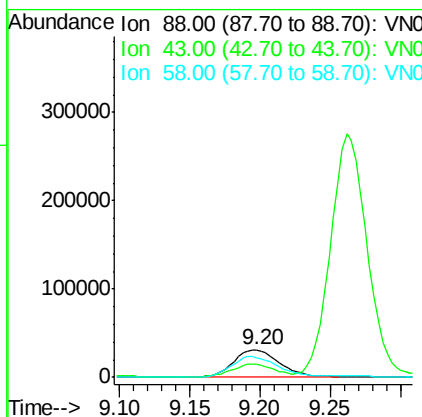
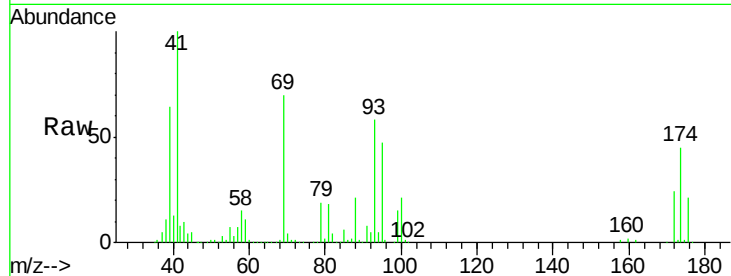
#45
 1,4-Dioxane
 Concen: 899.824 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.7	29.8	44.6
58	77.0	62.2	93.2

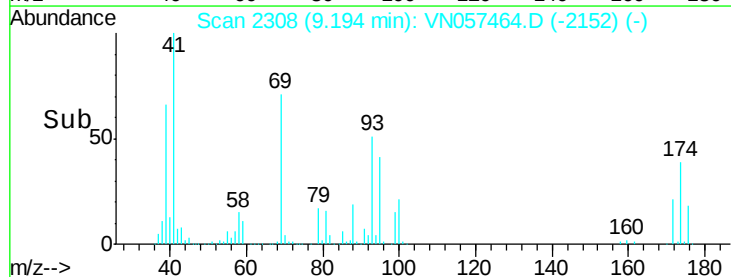
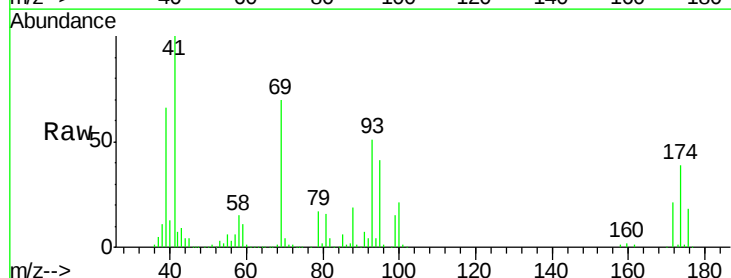
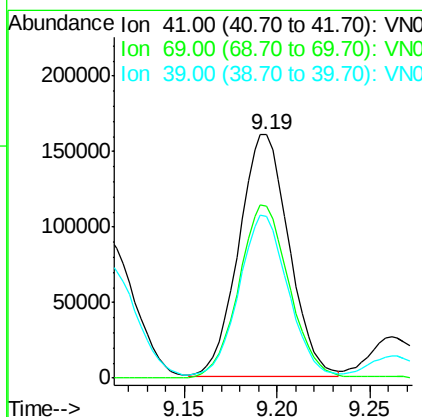
Manual Integrations
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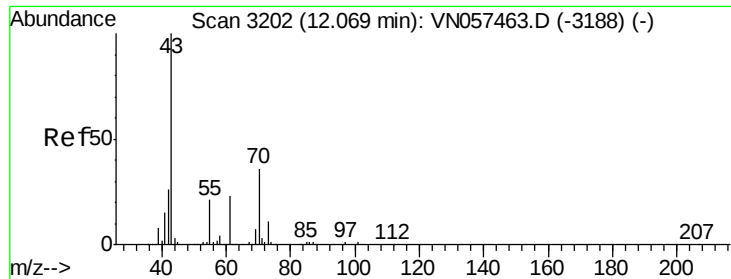
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#46
 Methyl methacrylate
 Concen: 69.864 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
41	100		
69	70.9	36.5	109.5
39	65.6	32.1	96.3





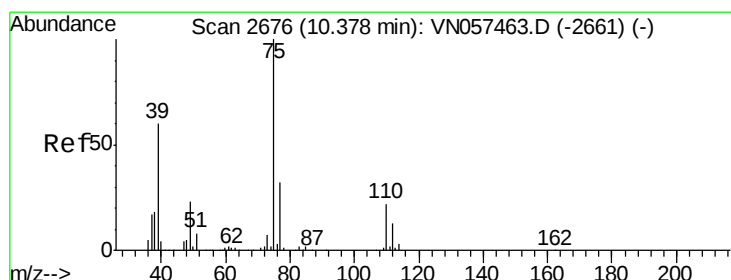
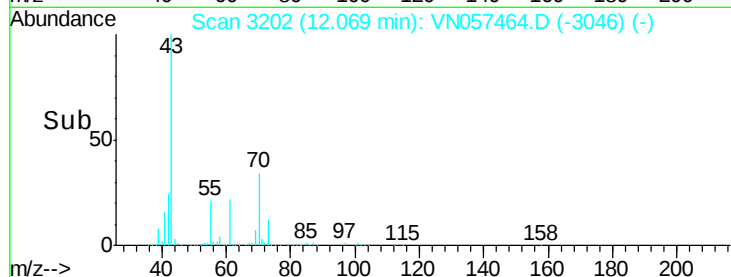
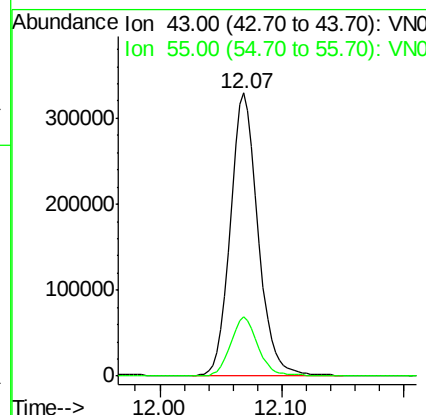
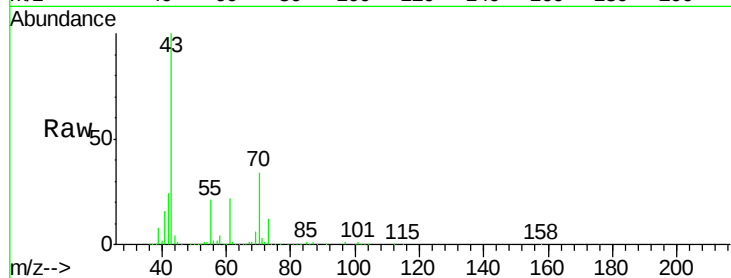
#47
n-amvl Acetate
Concen: 73.015 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	43	Resp	520857
Ion Ratio	100	Lower	Upper
43	100	17.0	25.6
55	20.9		

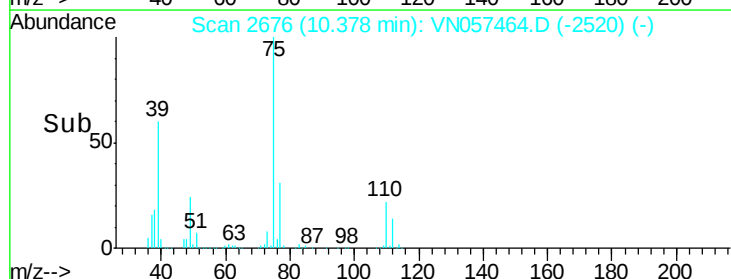
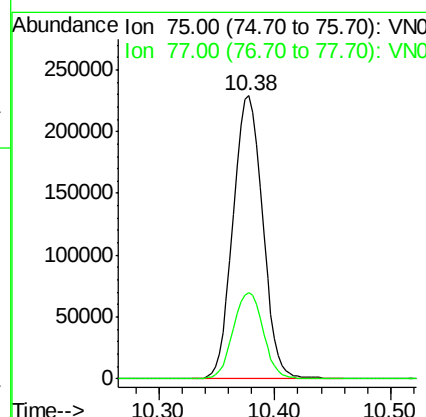
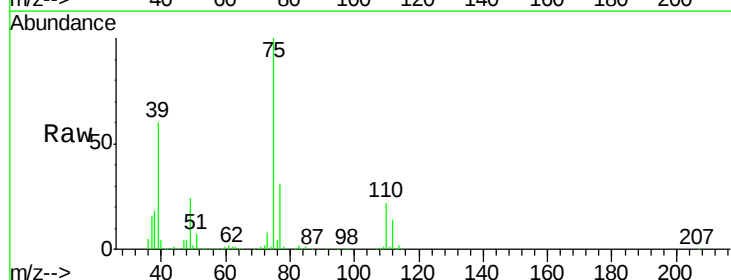
Manual Integrations
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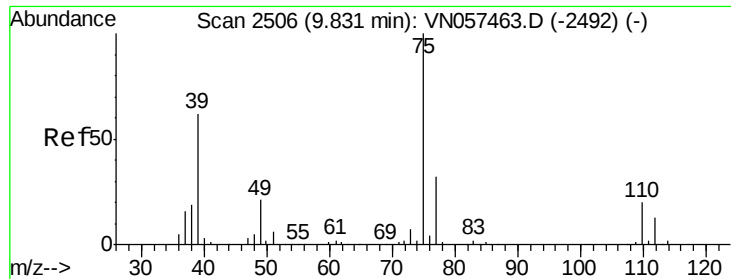
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#48
t-1,3-Dichloropropene
Concen: 57.191 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	75	Resp	405357
Ion Ratio	100	Lower	Upper
75	100	25.7	38.5
77	30.5		





#49

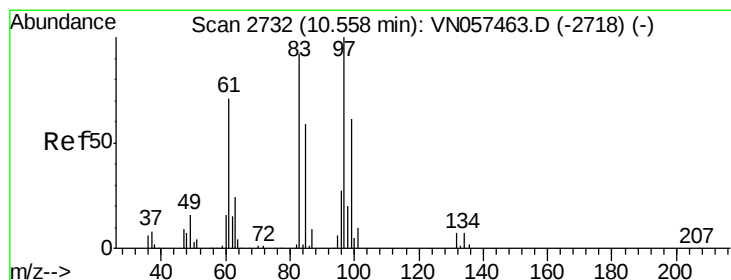
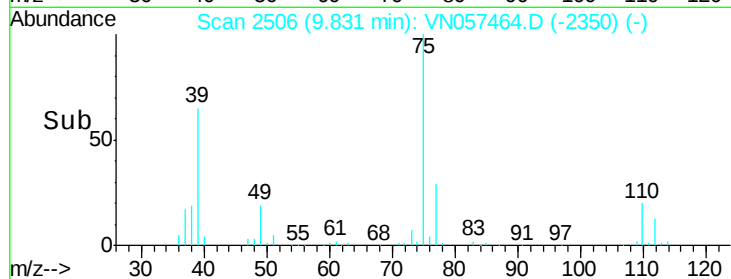
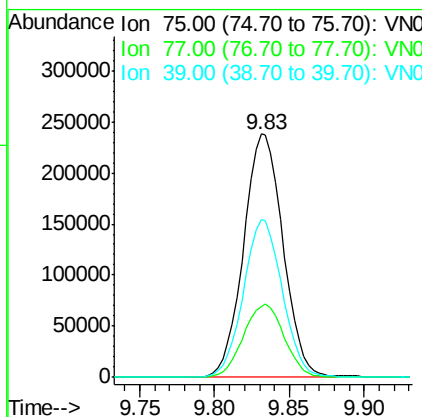
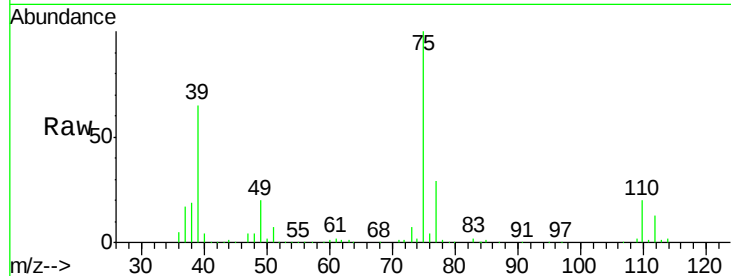
cis-1,3-Dichloropropene
 Concen: 55.356 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.3	25.4	38.0
39	64.6	49.8	74.6

Manual Integrations
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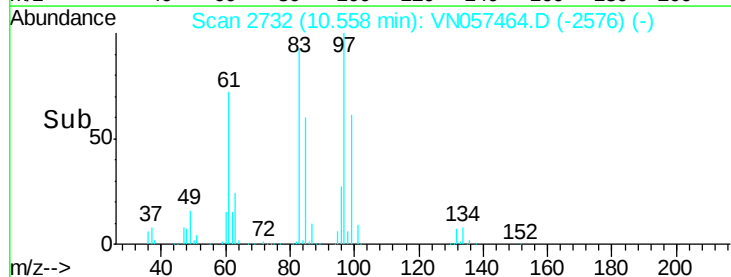
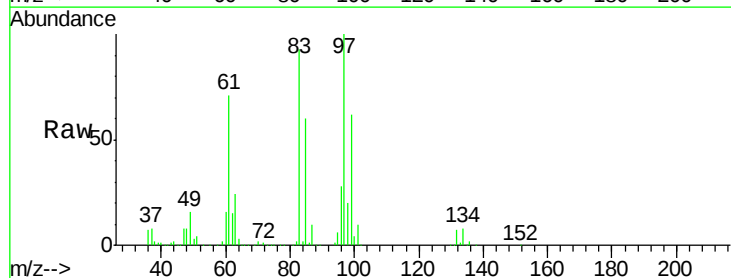
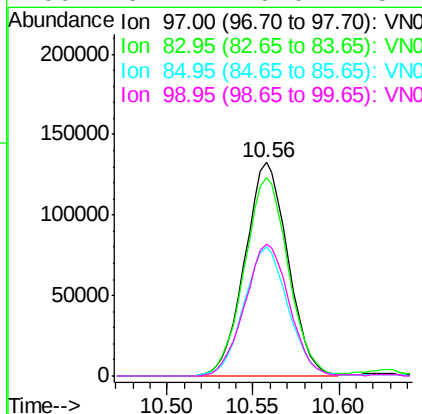
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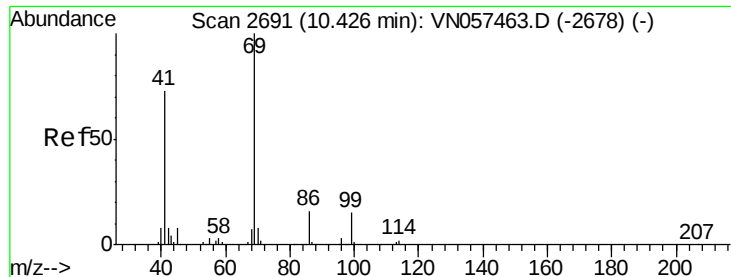


#50

1,1,2-Trichloroethane
 Concen: 49.859 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
97	100		
83	93.0	73.2	109.8
85	60.4	47.1	70.7
99	61.7	49.0	73.4





#51

Ethyl methacrylate

Concen: 58.775 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

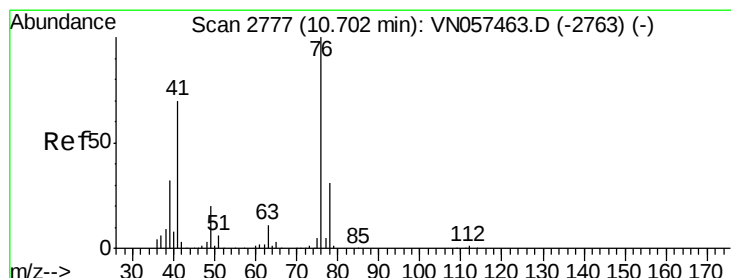
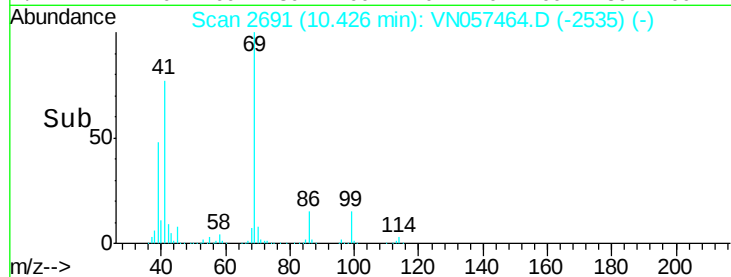
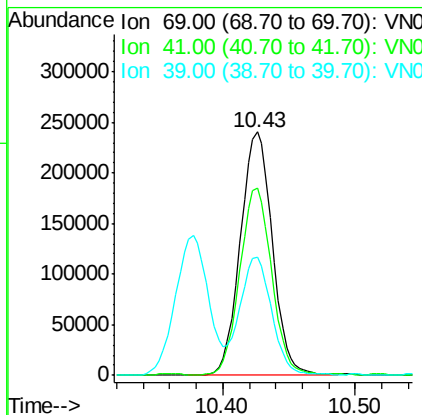
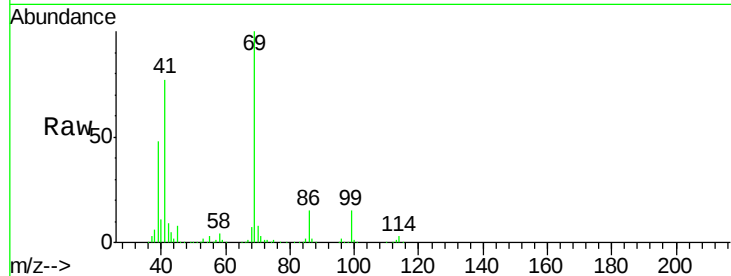
ClientSampleId :

VSTDIC050

Tot Ion:	69	Resp:	404627
Ion Ratio	Lower	Upper	
69	100		
41	76.5	37.0	111.1
39	47.9	24.4	73.4

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 55.761 ug/l

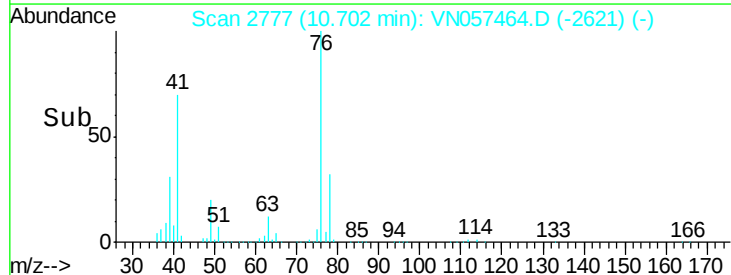
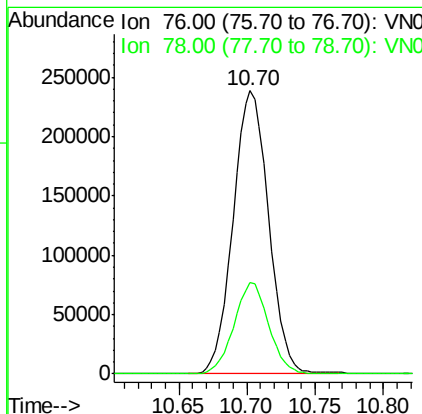
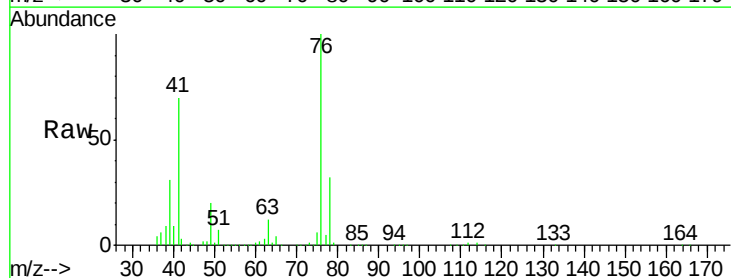
RT: 10.70 min Scan# 2777

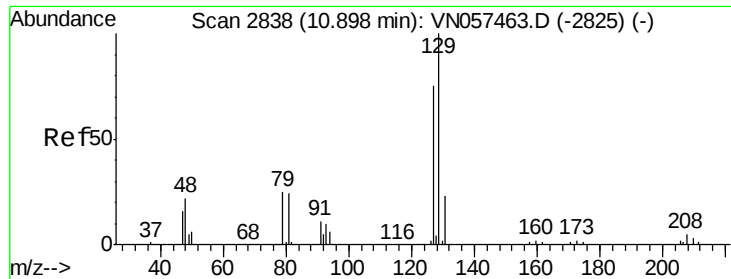
Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion:	76	Resp:	431404
Ion Ratio	Lower	Upper	
76	100		
78	31.4	0.0	63.0





#53

Dibromochloromethane

Concen: 48.413 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:129 Resp: 253211

Ion Ratio Lower Upper

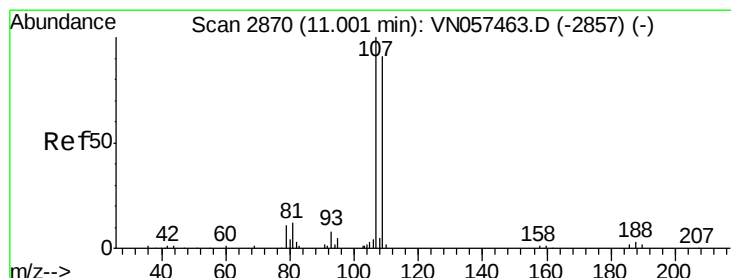
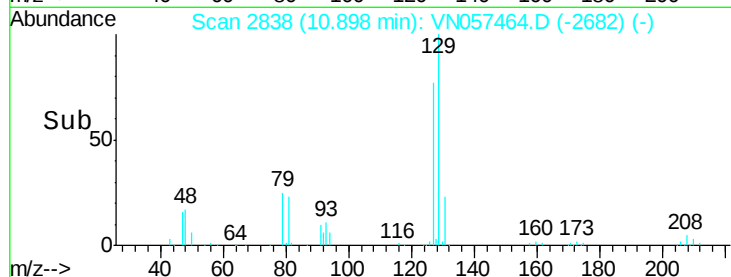
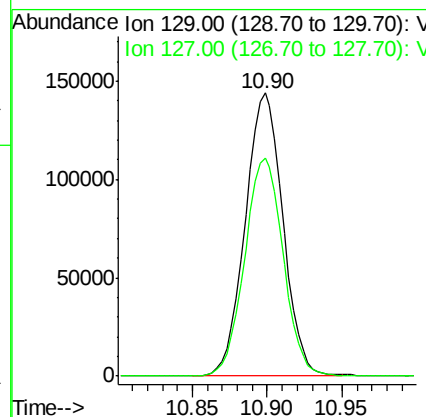
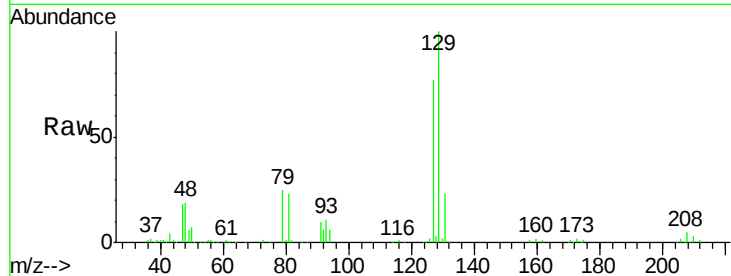
129 100

127 78.4 38.1 114.3

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#54

1,2-Dibromoethane

Concen: 49.807 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057464.D

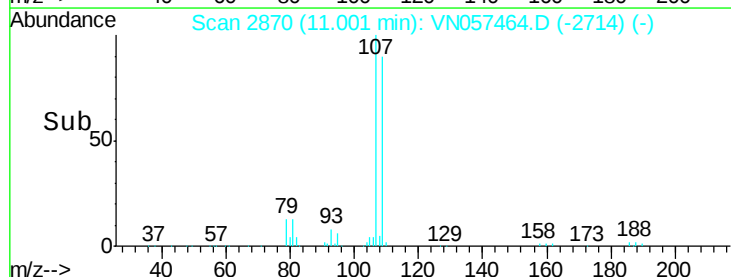
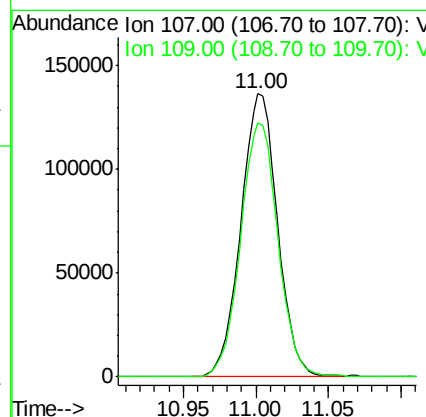
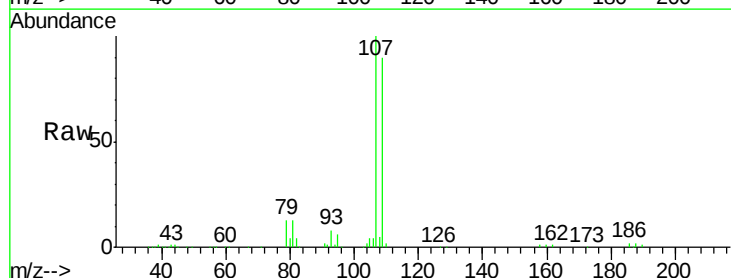
Acq: 23 Aug 2019 10:03

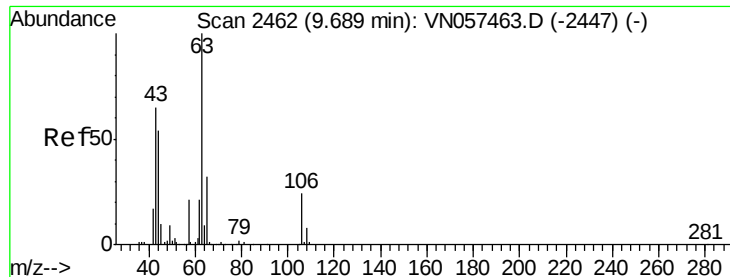
Tgt Ion:107 Resp: 239549

Ion Ratio Lower Upper

107 100

109 91.7 73.2 109.8





#55

2-Chloroethyl vinyl ether

Concen: 311.358 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

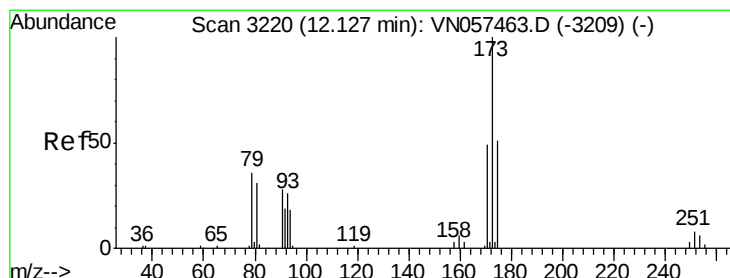
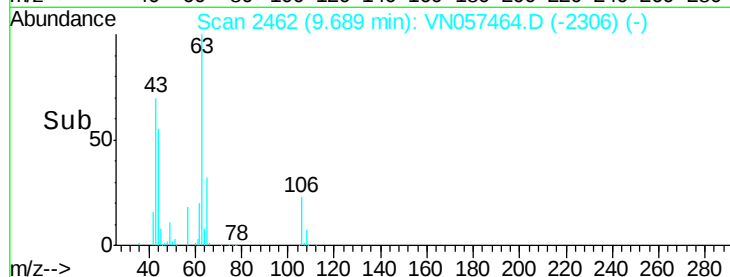
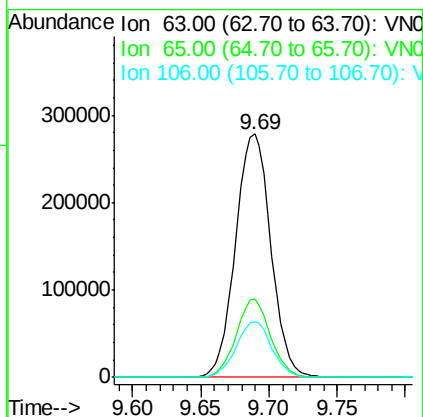
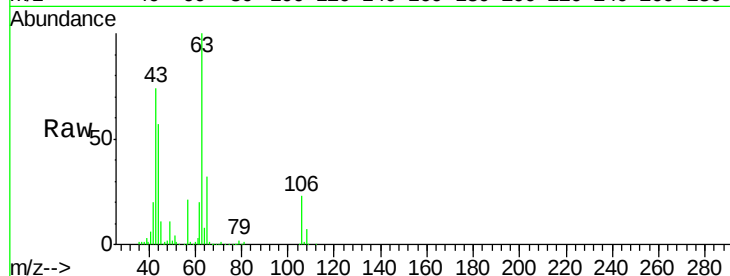
ClientSampleId :

VSTDIC050

Tot Ion:	63	Resp:	500847
Ion Ratio	Lower	Upper	
63	100		
65	31.1	25.1	37.7
106	23.0	18.7	28.1

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#56

Bromoform

Concen: 42.116 ug/l

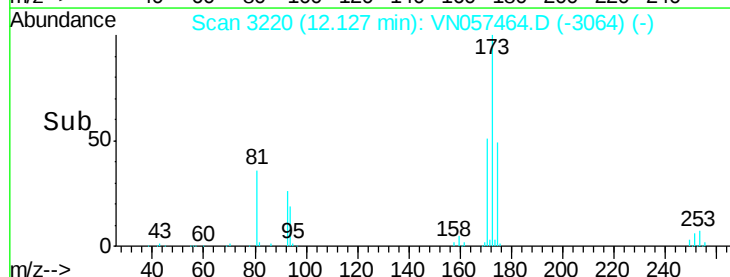
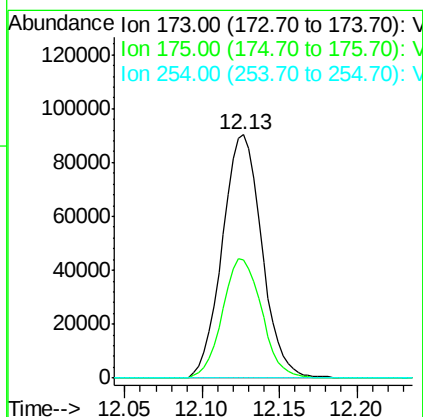
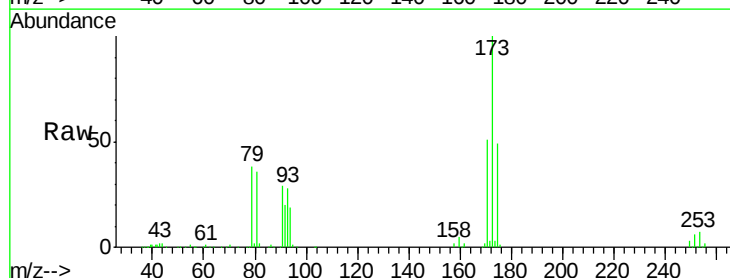
RT: 12.13 min Scan# 3220

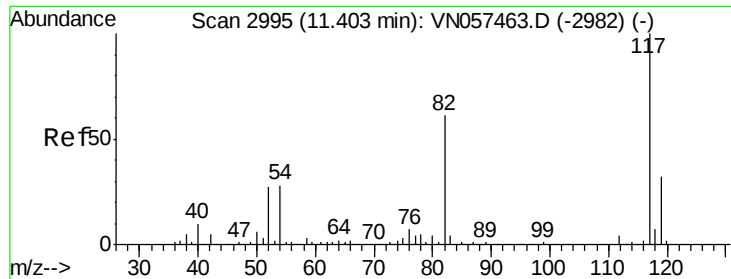
Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion:	173	Resp:	160306
Ion Ratio	Lower	Upper	
173	100		
175	48.7	40.1	60.1
254	0.0	0.0	0.0





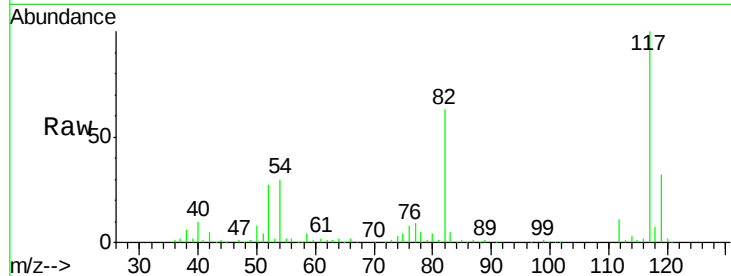
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

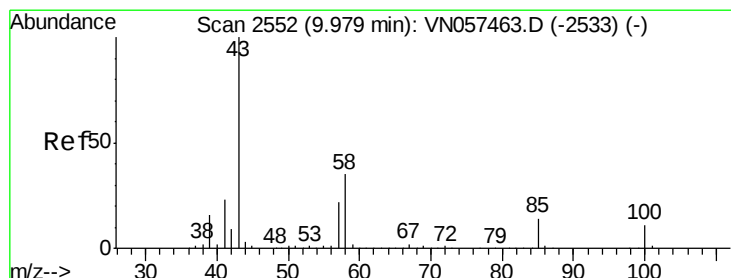
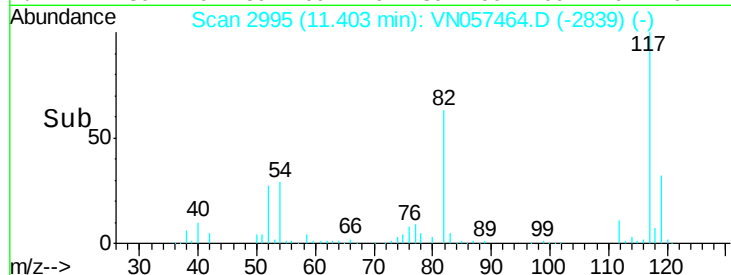
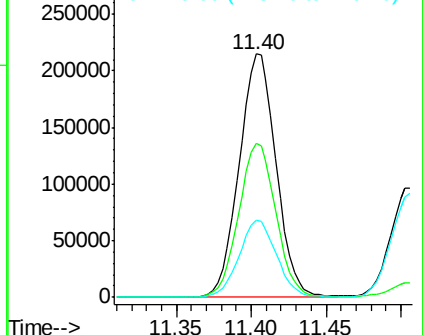
Tot Ion	Ratio	Lower	Upper
117	100		
82	63.7	50.4	75.6
119	32.1	25.4	38.2

Manual Integrations
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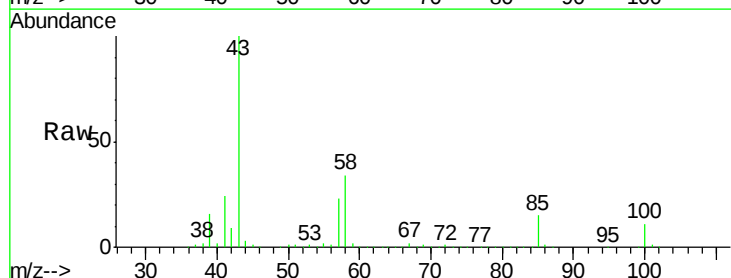


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

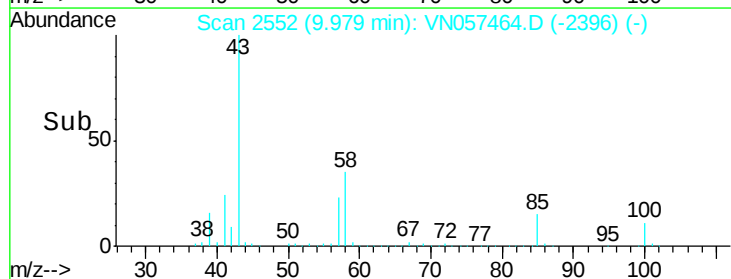
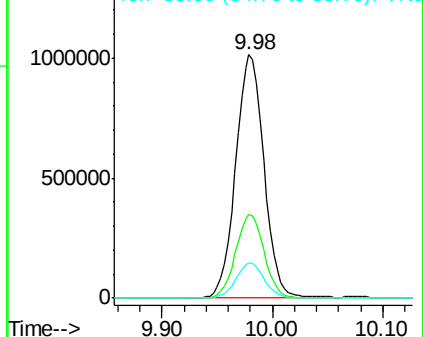


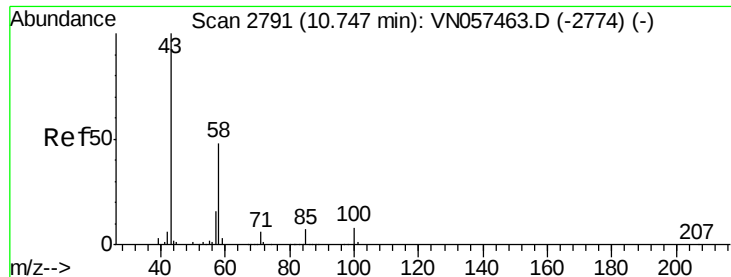
#58
4-Methyl-2-Pentanone
Concen: 337.312 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.0	42.0
85	14.3	11.3	16.9



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





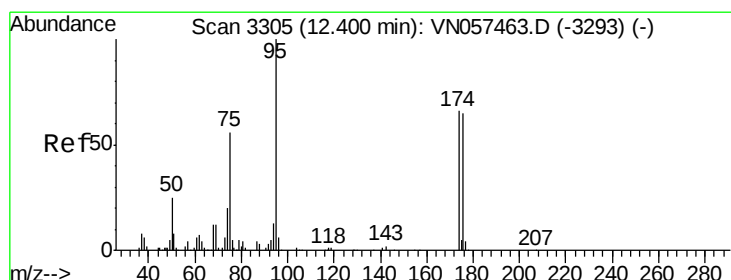
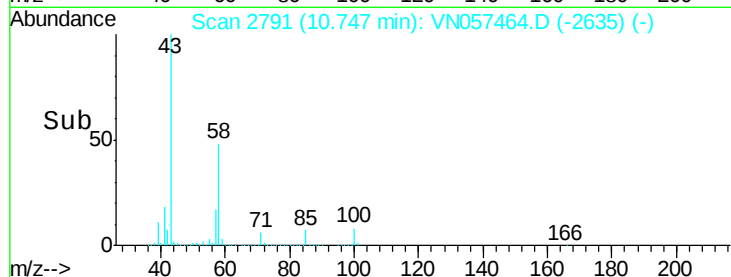
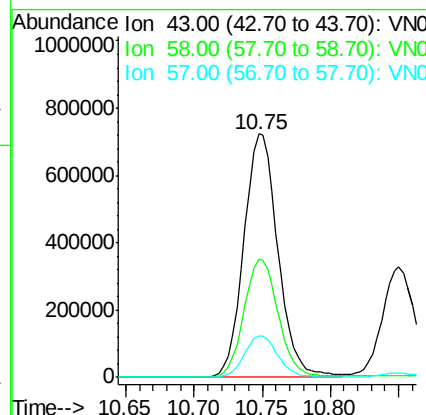
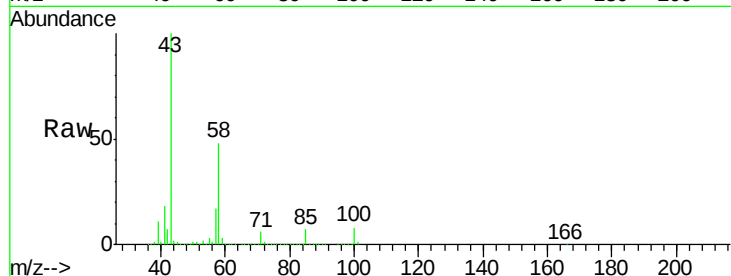
#59
2-Hexanone
Concen: 330.673 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion:	43	Resp:	1254054
Ion	Ratio	Lower	Upper
43	100		
58	49.4	38.9	58.3
57	16.9	13.0	19.4

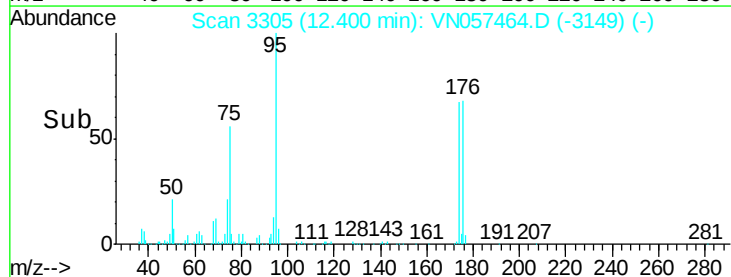
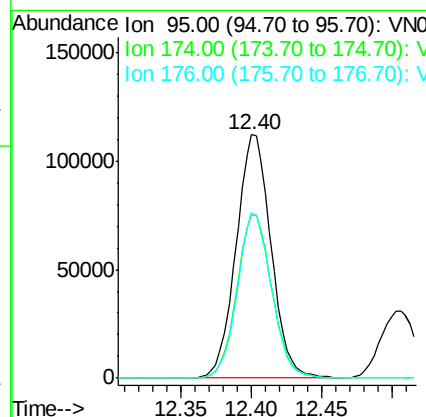
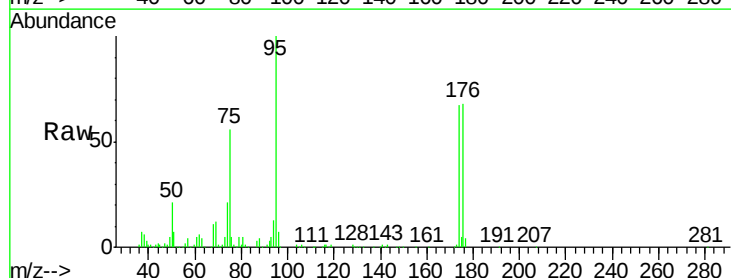
Manual Integrations
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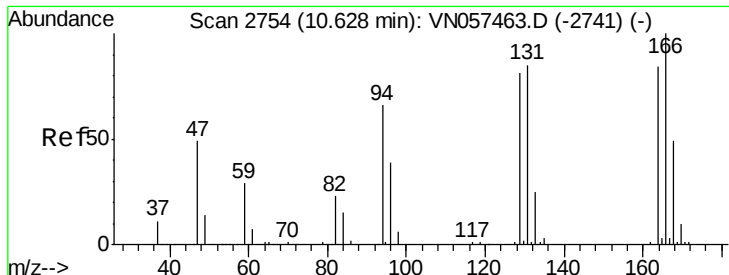
MMDadoda
8/26/2019 1:11:54 PM



#60
4-Bromofluorobenzene
Concen: 35.050 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion:	95	Resp:	194397
Ion	Ratio	Lower	Upper
95	100		
174	67.3	54.9	82.3
176	66.1	54.2	81.4





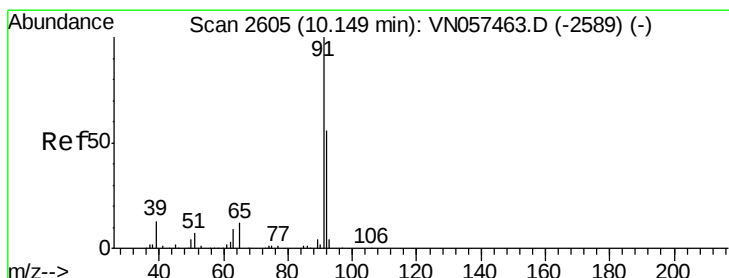
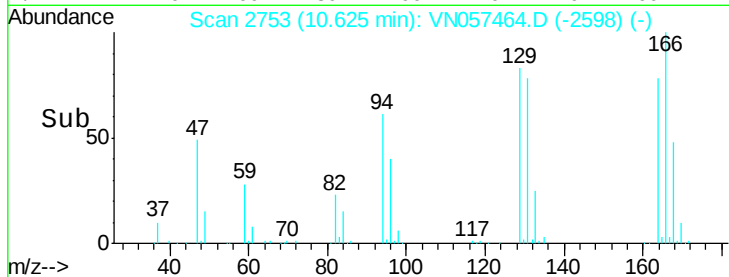
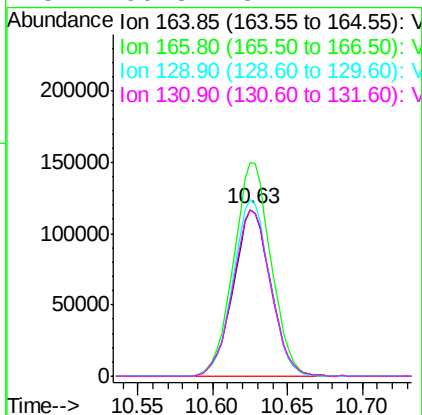
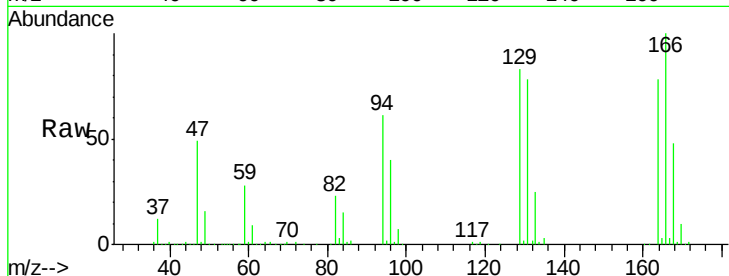
#61
Tetrachloroethene
Concen: 39.537 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
164	100	202956		
166	128.1	95.8	143.6	
129	105.6	77.2	115.8	
131	99.3	81.1	121.7	

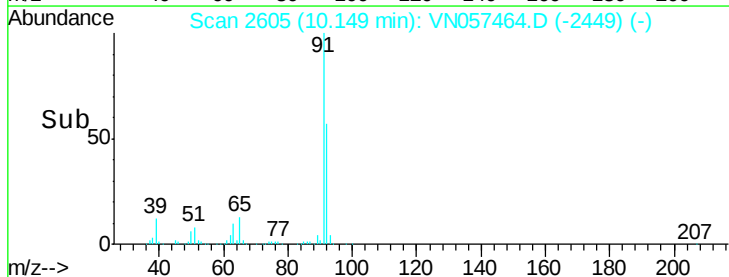
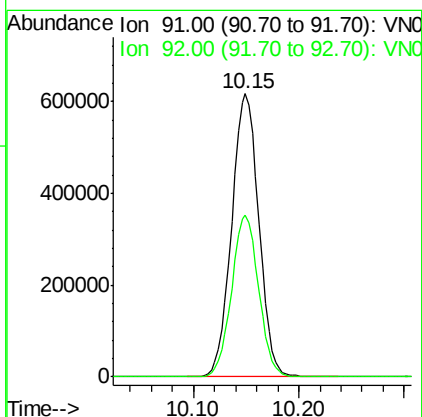
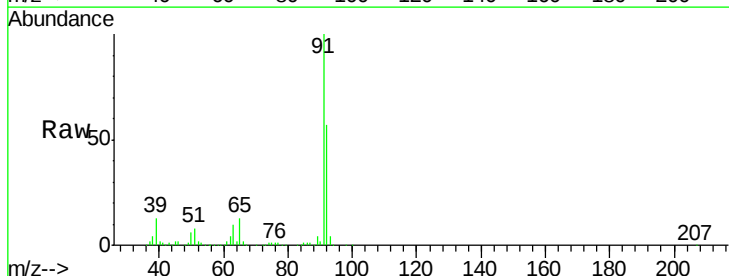
Manual Integrations
APPROVED

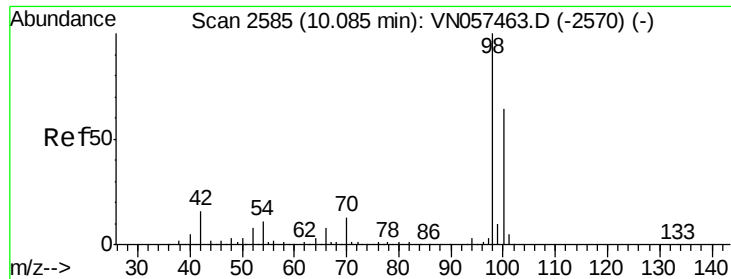
MMDadoda
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#62
Toluene
Concen: 53.040 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1100669		
92	57.0	45.4	68.0	





#63

Toluene-d8

Concen: 32.185 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 98 Resp: 551559

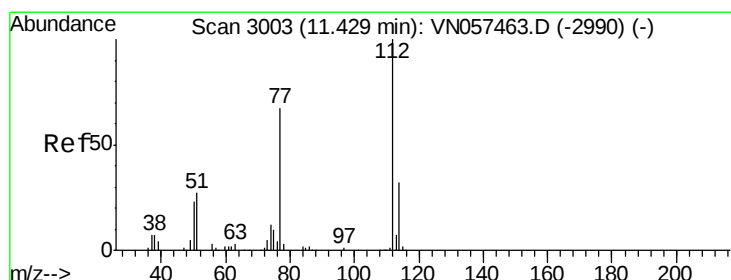
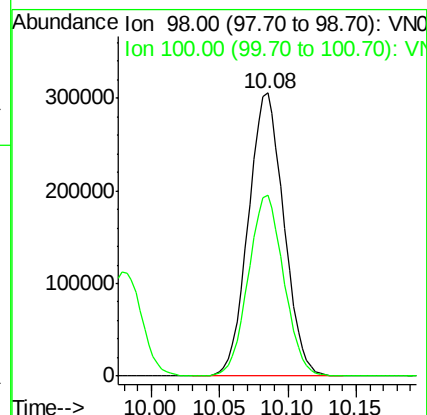
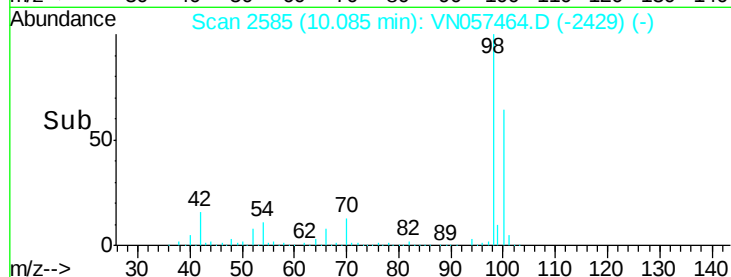
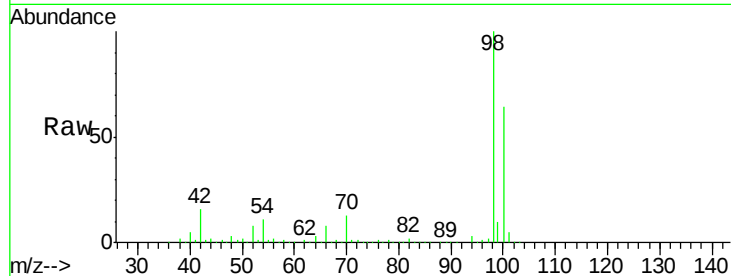
Ion Ratio Lower Upper

98 100

100 64.0 51.0 76.6

Manual Integrations
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#64

Chlorobenzene

Concen: 47.965 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057464.D

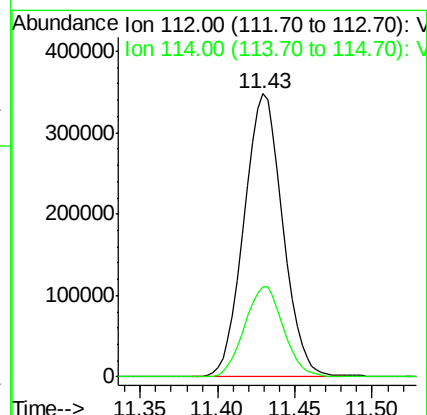
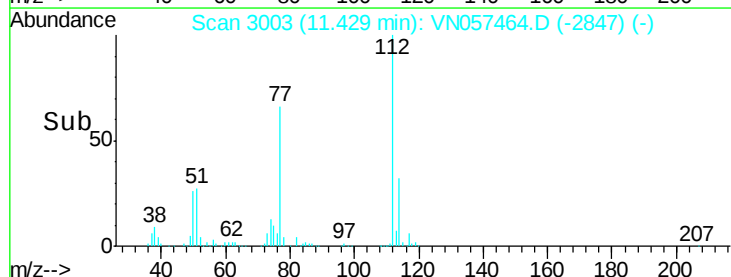
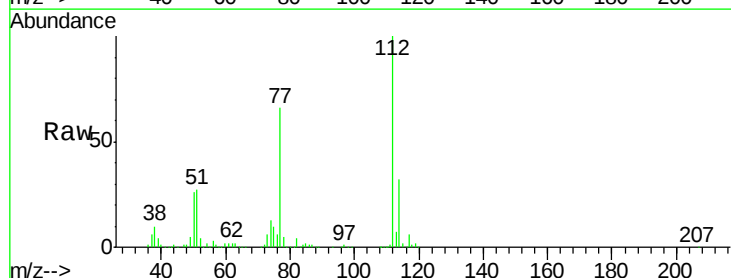
Acq: 23 Aug 2019 10:03

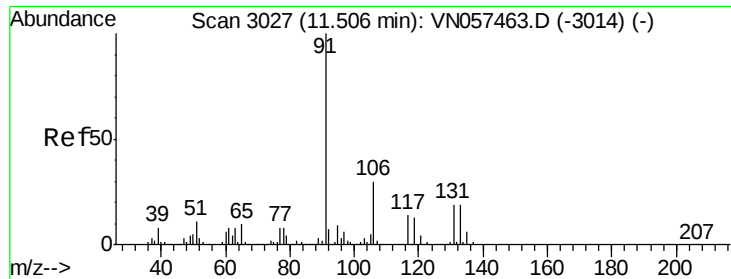
Tgt Ion: 112 Resp: 607449

Ion Ratio Lower Upper

112 100

114 31.6 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 48.051 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

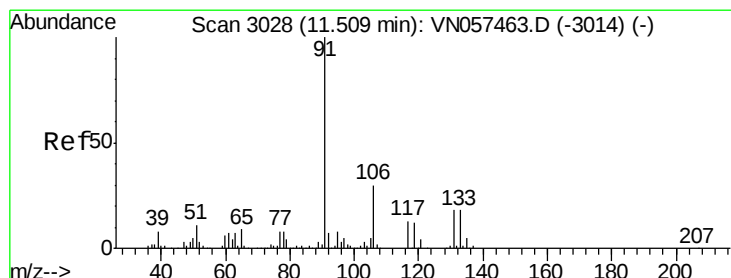
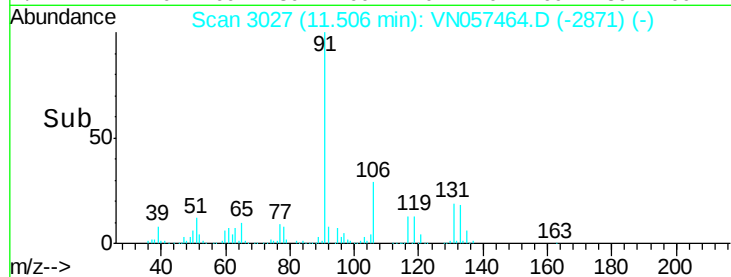
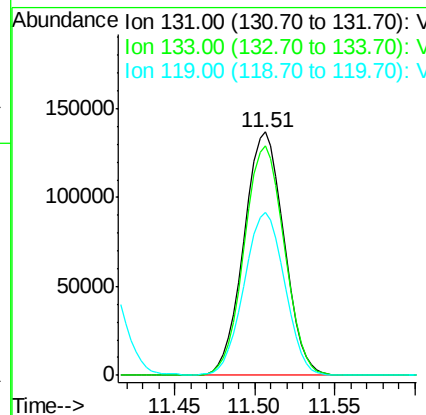
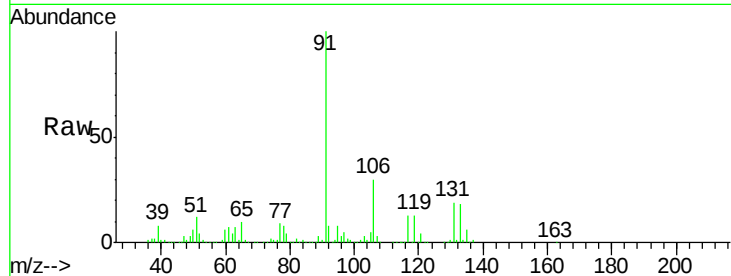
ClientSampleId :

VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
131	100	234408		
133	94.4	0.0	193.6	
119	67.9	0.0	137.4	

Manual Integrations
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#66

Ethyl Benzene

Concen: 53.939 ug/l

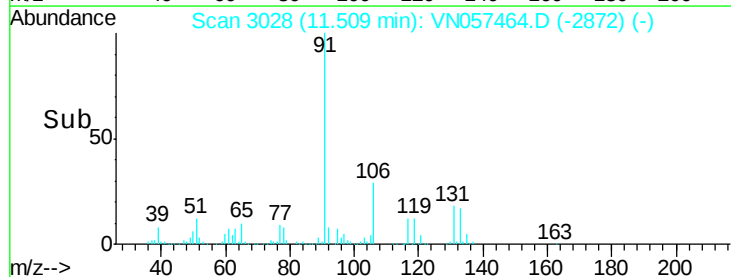
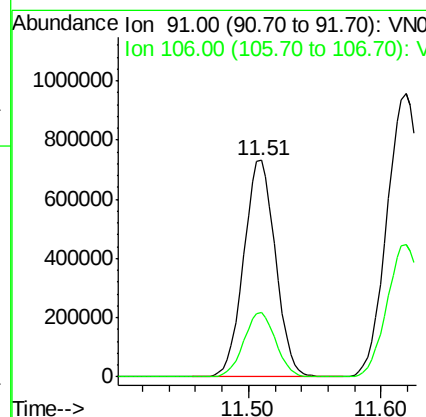
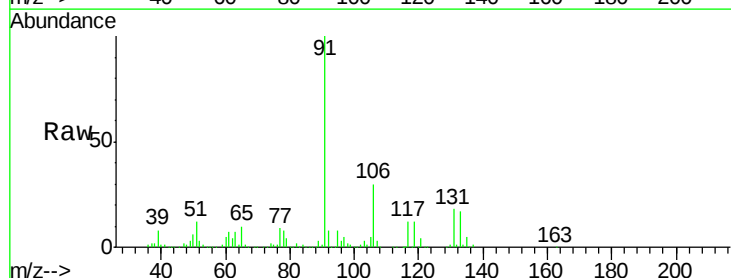
RT: 11.51 min Scan# 3028

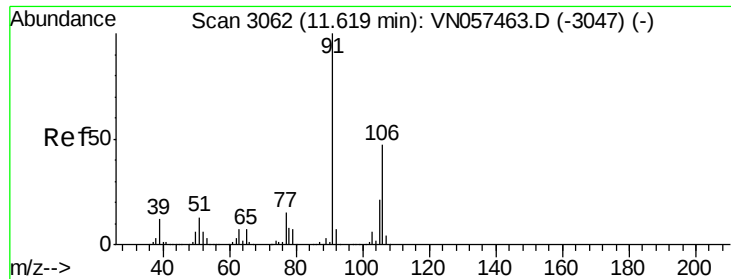
Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1216824		
106	29.7	23.6	35.4	





#67

m/p-Xylenes

Concen: 104.045 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion:106 Resp: 863243

Ion Ratio Lower Upper

106 100

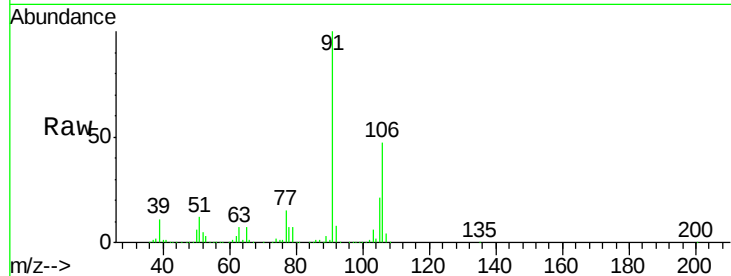
91 213.8 172.9 259.3

Manual Integrations

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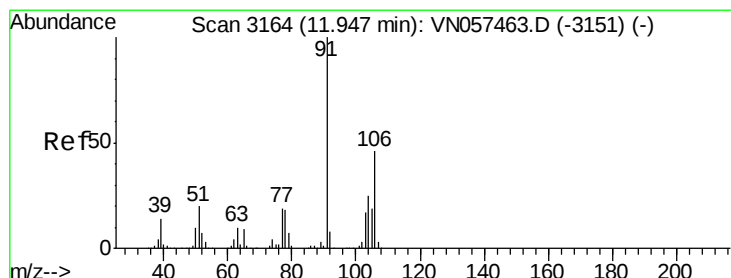
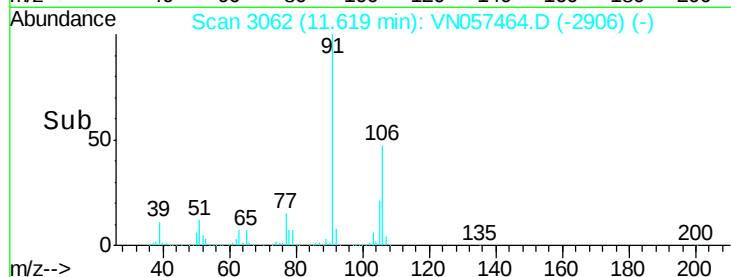
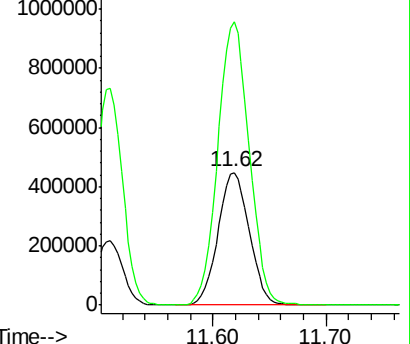
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 51.293 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN057464.D

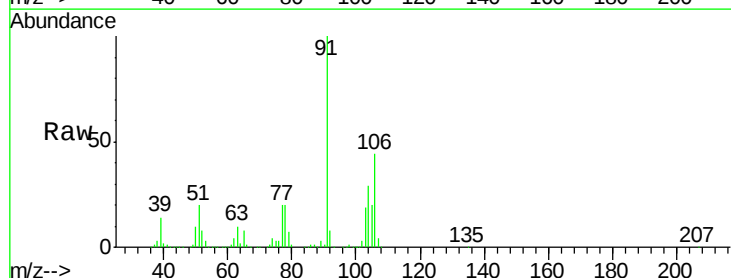
Acq: 23 Aug 2019 10:03

Tgt Ion:106 Resp: 418650

Ion Ratio Lower Upper

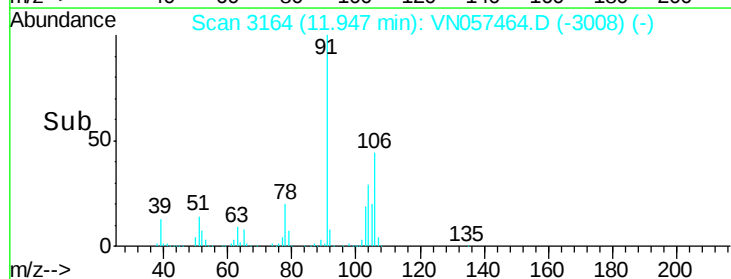
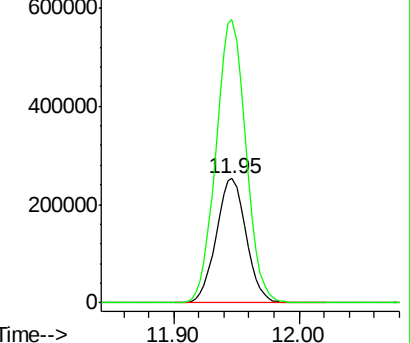
106 100

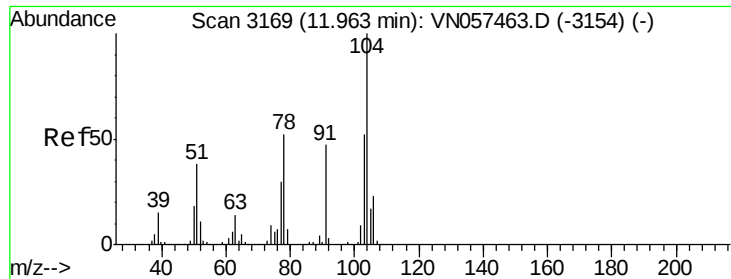
91 228.0 111.1 333.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





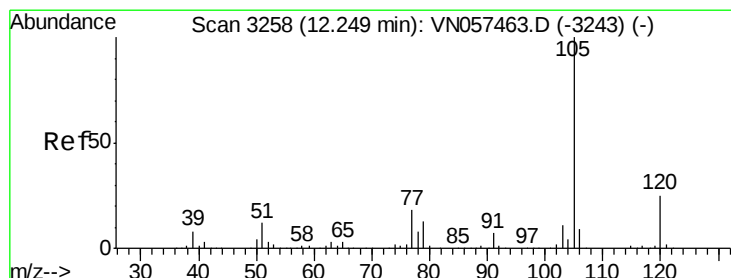
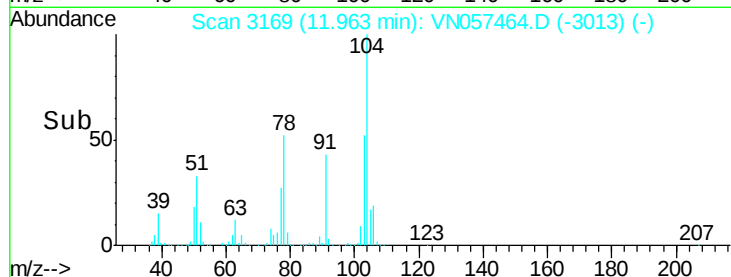
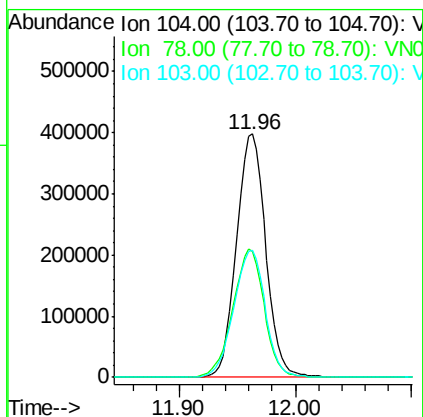
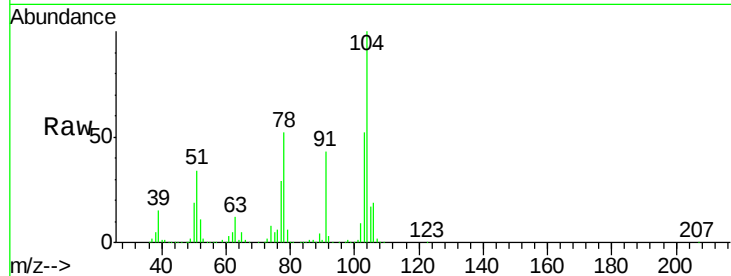
#69
Stvrene
Concen: 53.476 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
104	100	696141		
78	56.6	46.5	69.7	
103	56.4	45.9	68.9	

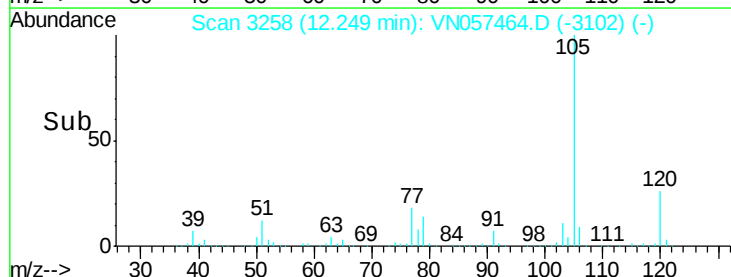
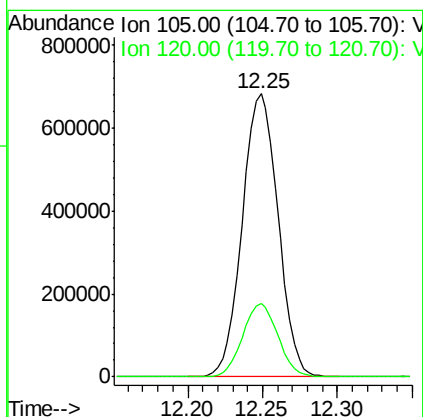
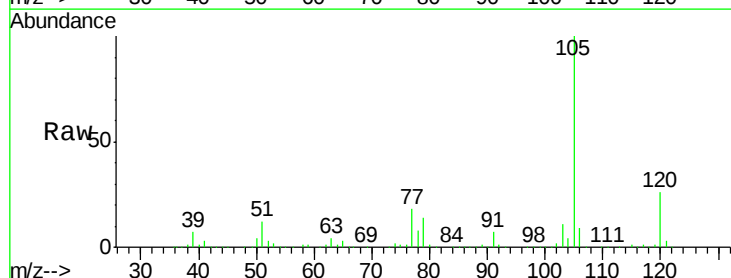
Manual Integrations
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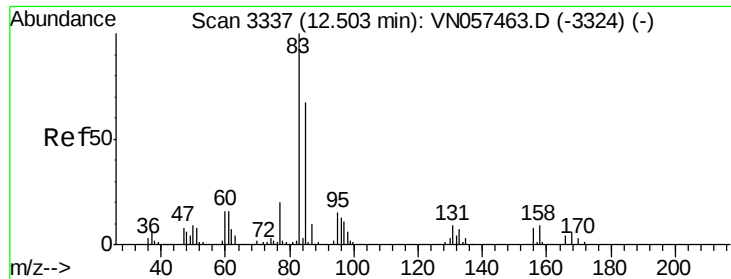
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#70
Isopropylbenzene
Concen: 52.218 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1137392		
120	25.7	17.8	33.1	





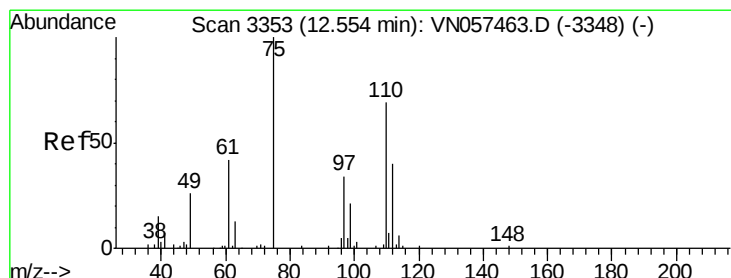
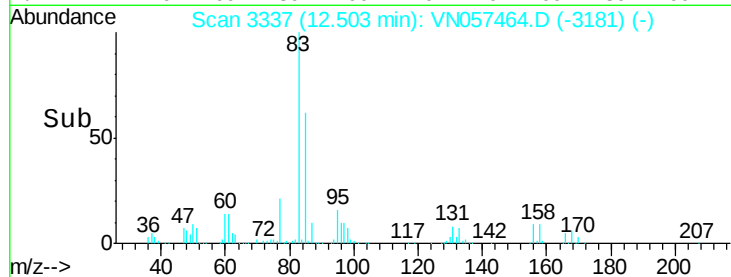
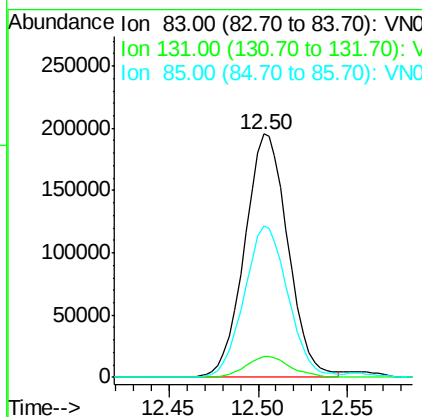
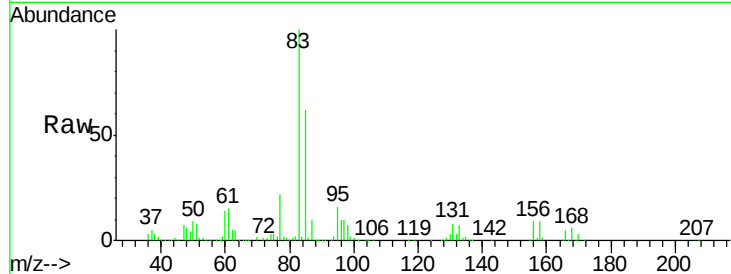
#71
 1,1,2,2-Tetrachloroethane
 Concen: 55.136 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	83	Resp	332669
Ion Ratio	100	Lower	Upper
83	100		
131	8.6	4.7	14.1
85	62.8	33.1	99.2

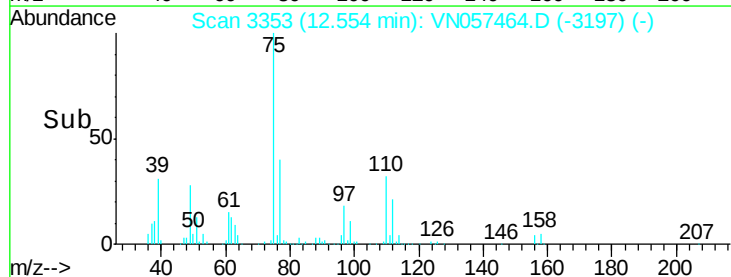
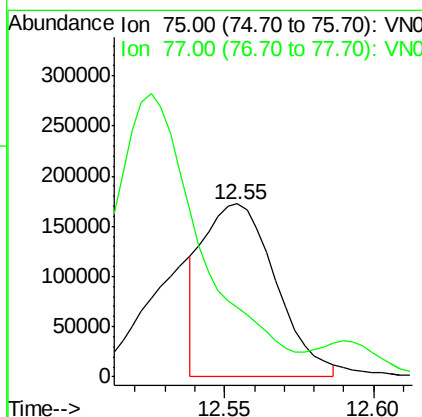
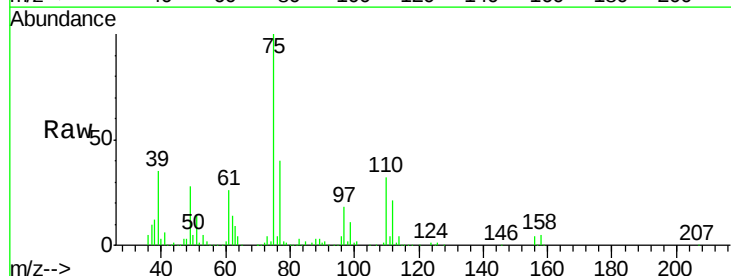
Manual Integrations
 APPROVED

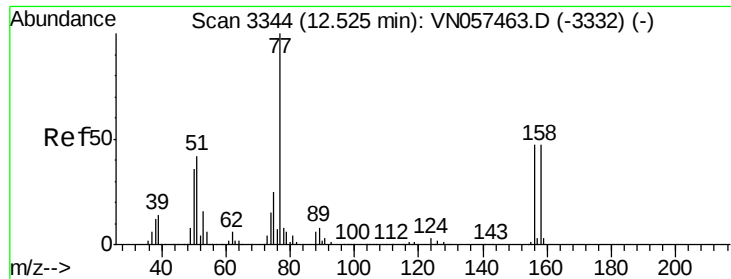
MMDadoda
 8/26/2019 1:11:54 PM



#72
 1,2,3-Trichloropropane
 Concen: 56.159 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	75	Resp	290465
Ion Ratio	100	Lower	Upper
75	100		
77	201.5	0.0	380.2





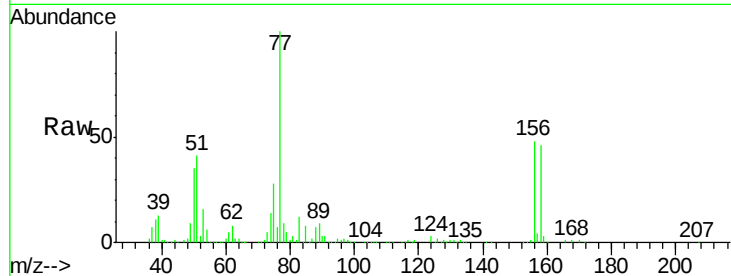
#73
Bromobenzene
Concen: 42.368 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
156	100	234018		
77	250.1	0.0	506.8	
158	97.5	0.0	196.6	

Manual Integrations
APPROVED

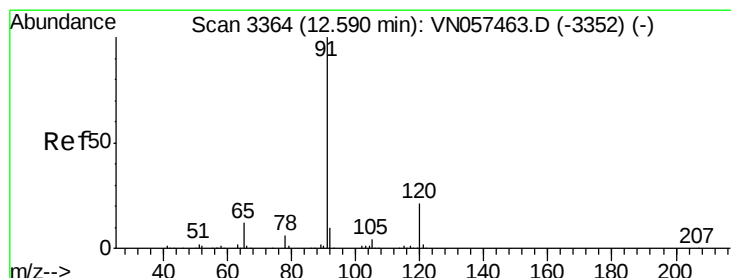
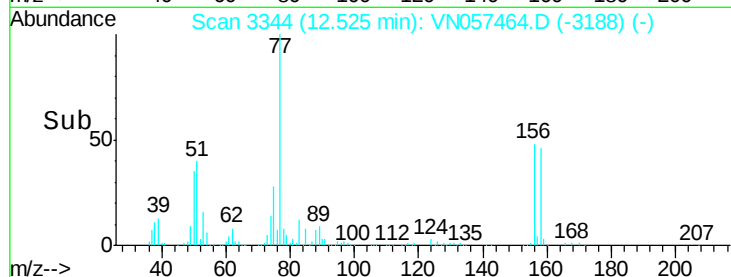
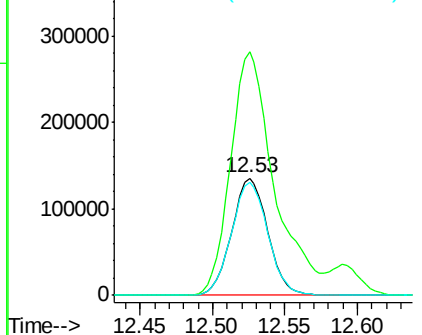
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Abundance Ion 156.00 (155.70 to 156.70): V

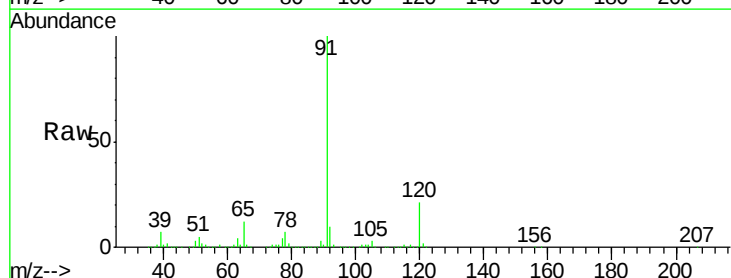
Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



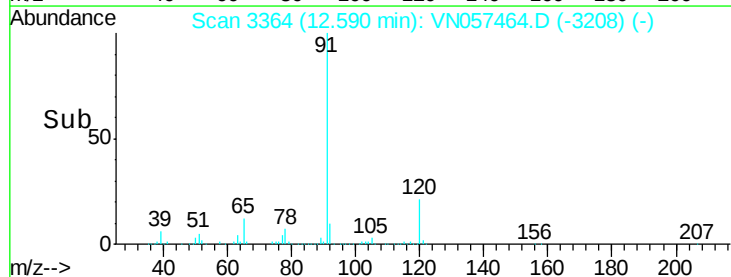
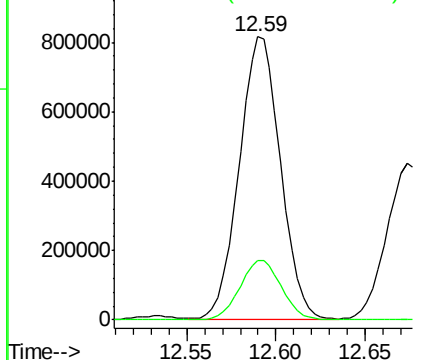
#74
n-propylbenzene
Concen: 57.225 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

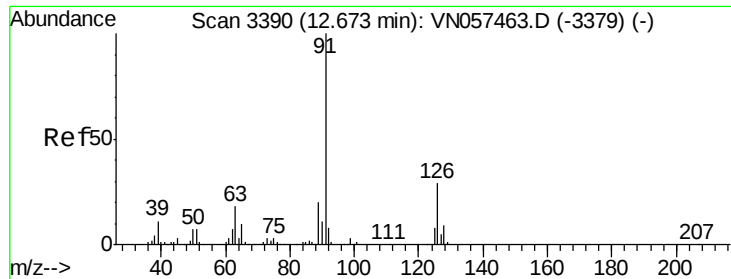
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1321600		
120	21.1	0.0	42.2	



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 54.252 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion: 91 Resp: 768428

Ion Ratio Lower Upper

91 100

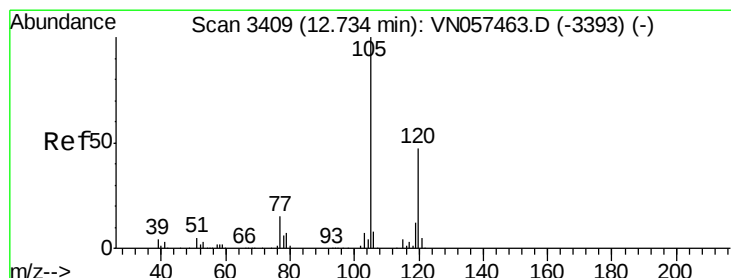
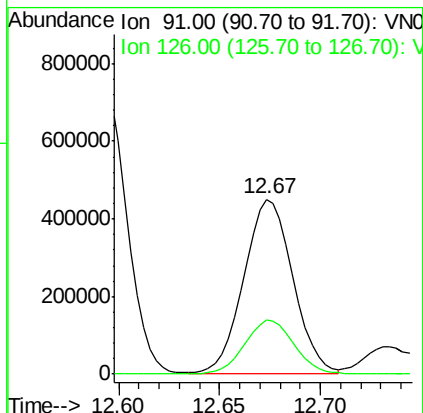
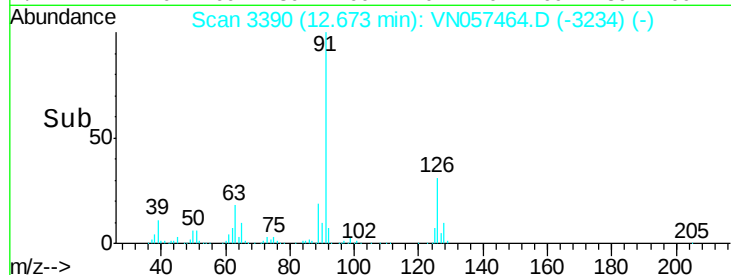
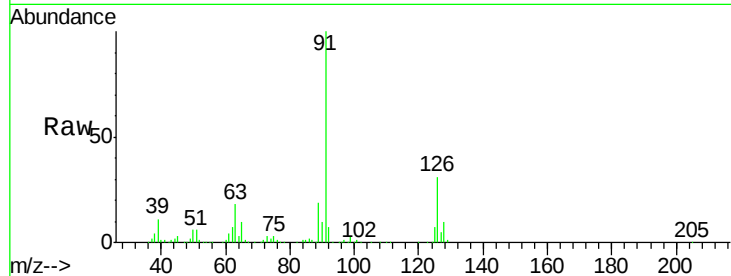
126 31.1 0.0 60.4

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#76

1,3,5-Trimethylbenzene

Concen: 52.337 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057464.D

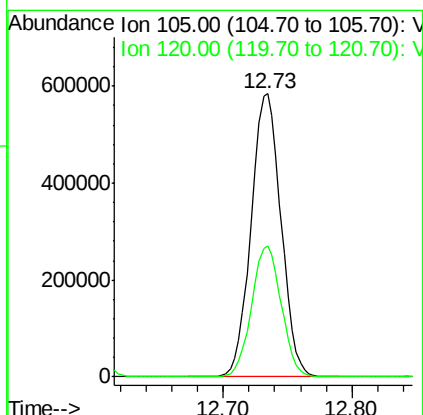
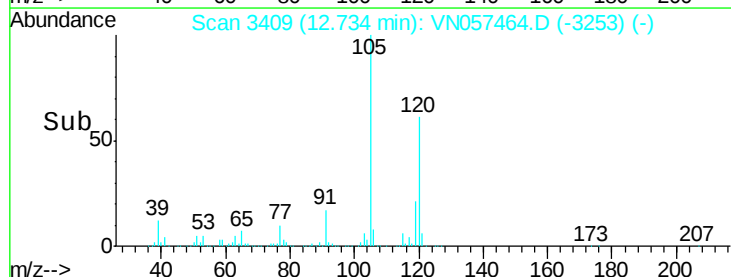
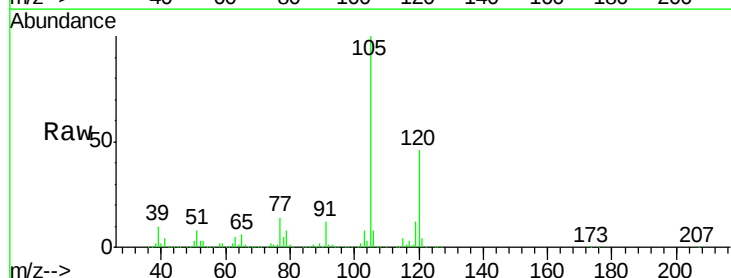
Acq: 23 Aug 2019 10:03

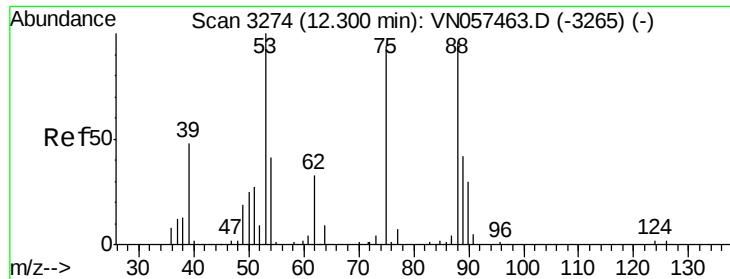
Tgt Ion: 105 Resp: 945524

Ion Ratio Lower Upper

105 100

120 45.9 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 56.238 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 75 Resp: 111066

Ion Ratio Lower Upper

75 100

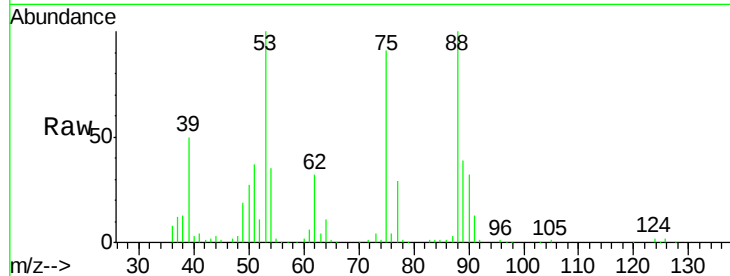
53 109.2 55.6 166.9

89 42.4 23.8 71.4

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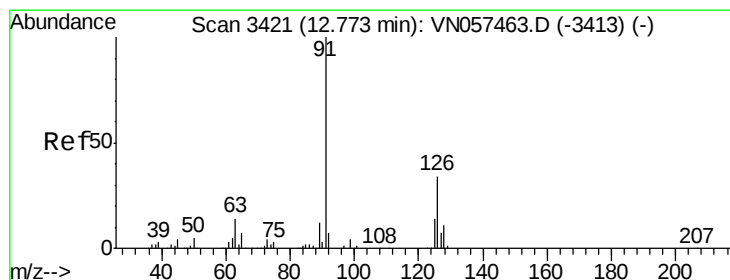
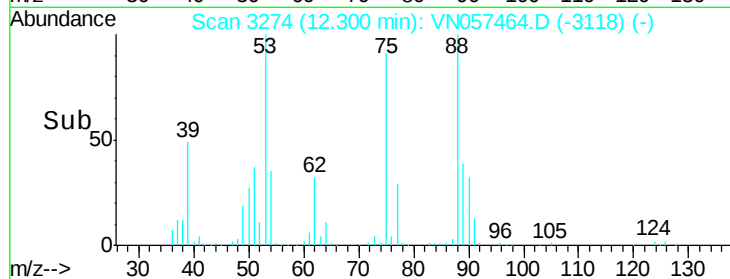
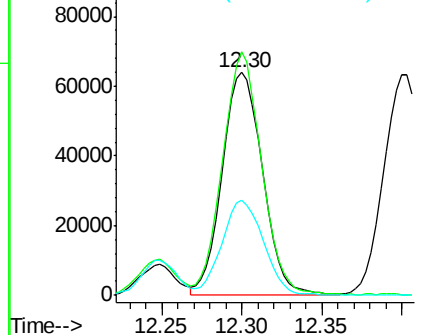
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Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 56.116 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN057464.D

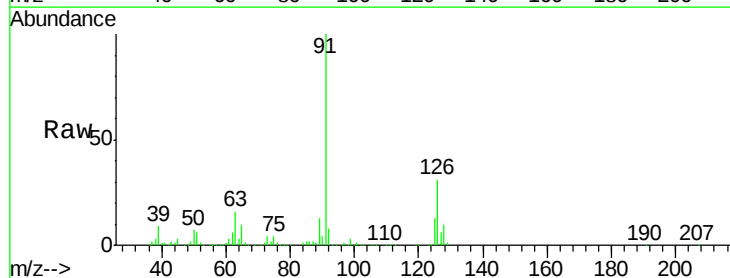
Acq: 23 Aug 2019 10:03

Tgt Ion: 91 Resp: 745626

Ion Ratio Lower Upper

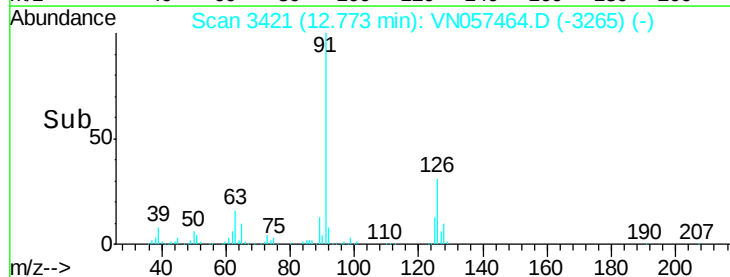
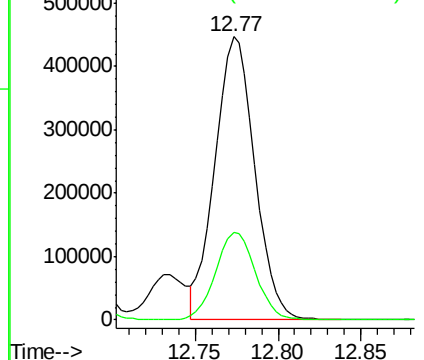
91 100

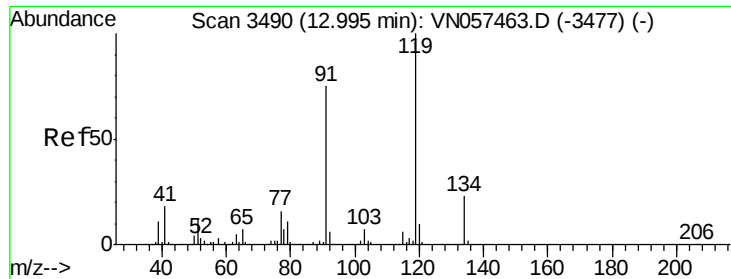
126 31.1 0.0 61.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V





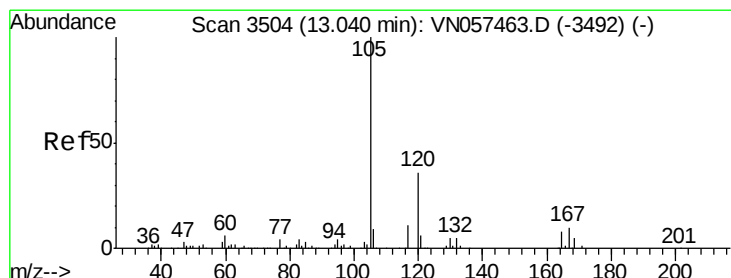
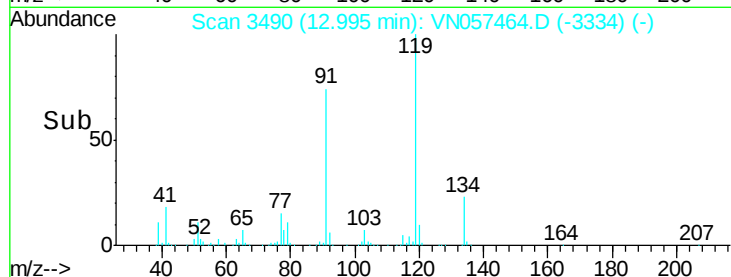
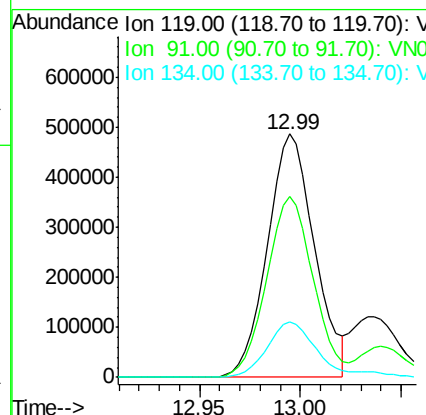
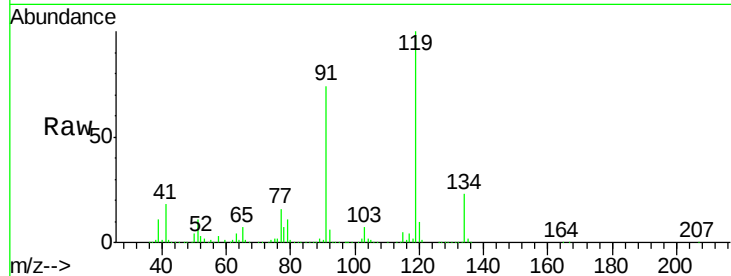
#79
tert-butylbenzene
Concen: 49.337 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	788163		
91	74.1	0.0	146.6	
134	23.4	0.0	46.2	

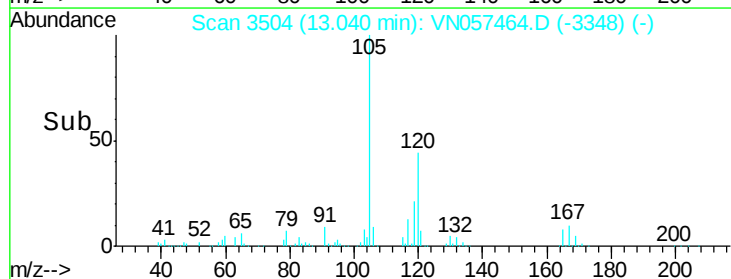
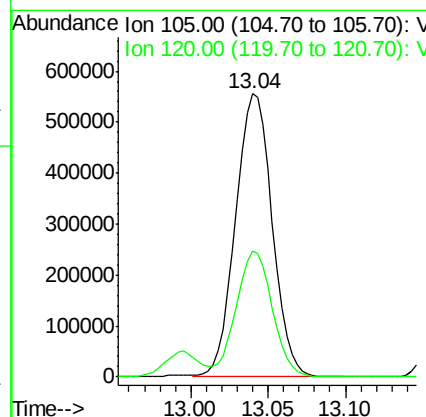
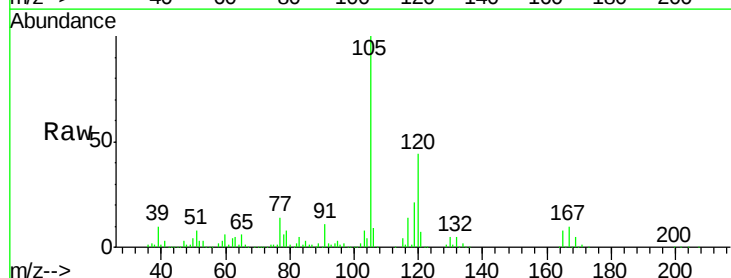
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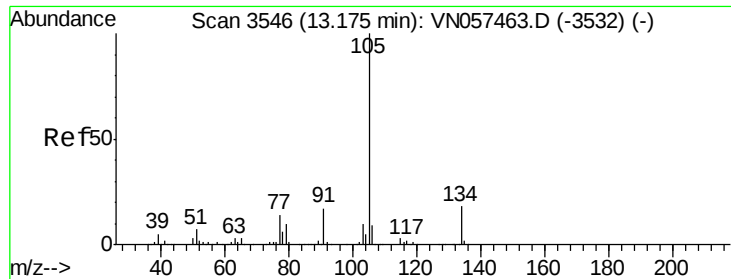
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#80
1,2,4-Trimethylbenzene
Concen: 53.500 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	912115		
120	43.7	0.0	85.4	





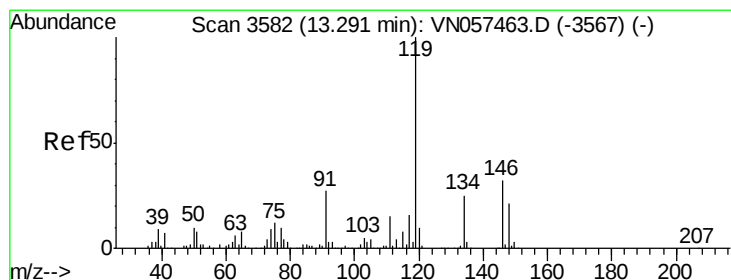
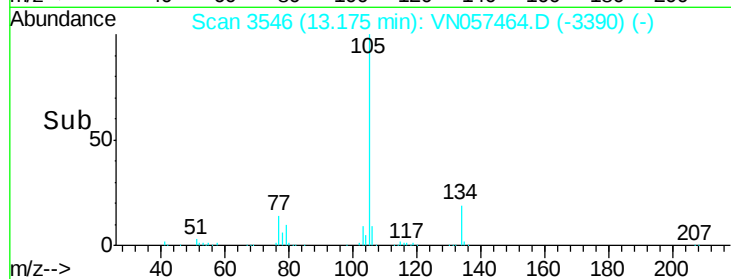
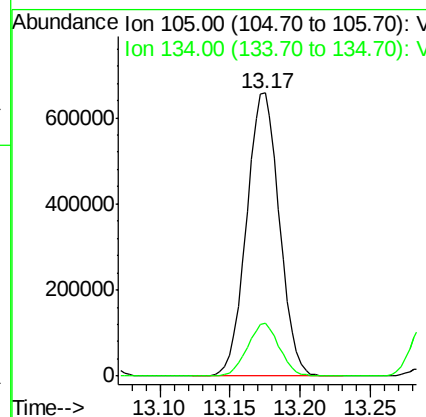
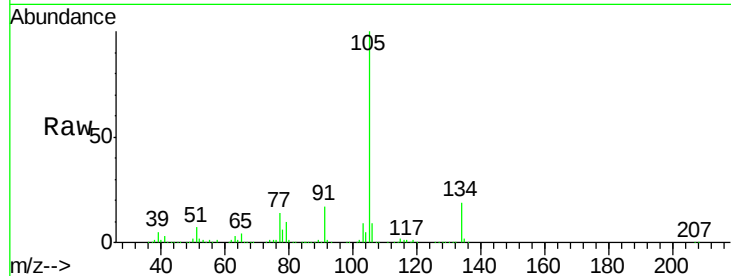
#81
 sec-Butylbenzene
 Concen: 53.471 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.2	0.0	36.0

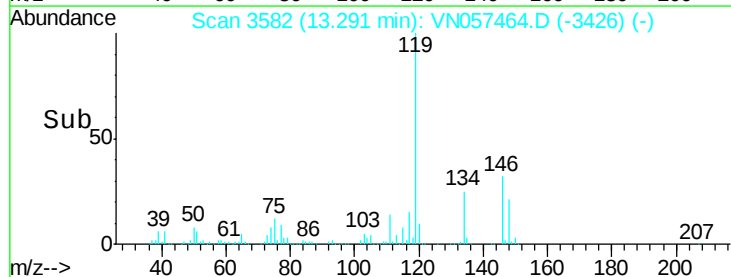
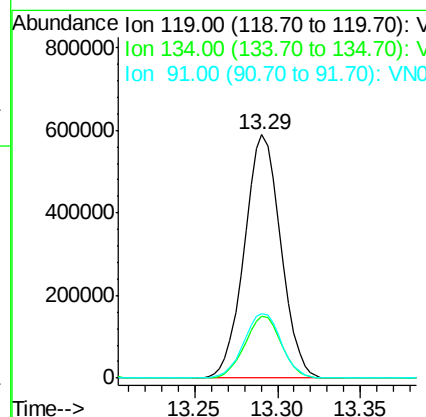
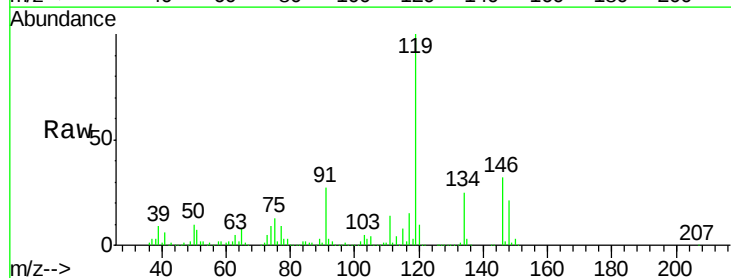
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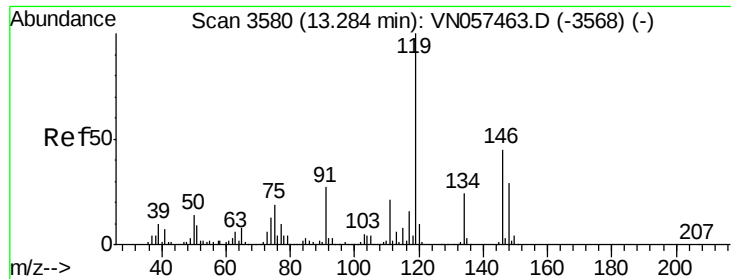
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#82
 p-Isopropyltoluene
 Concen: 50.805 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.5	0.0	49.6
91	27.2	0.0	55.2





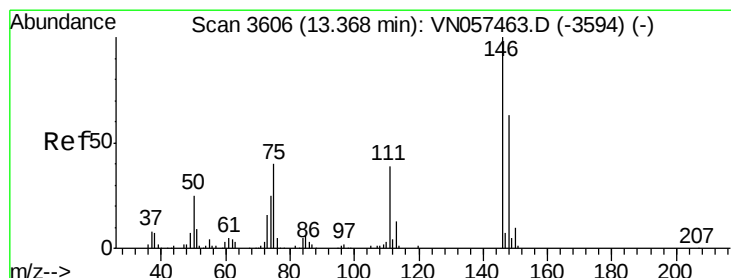
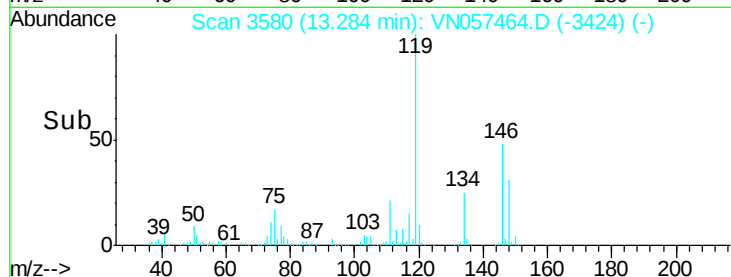
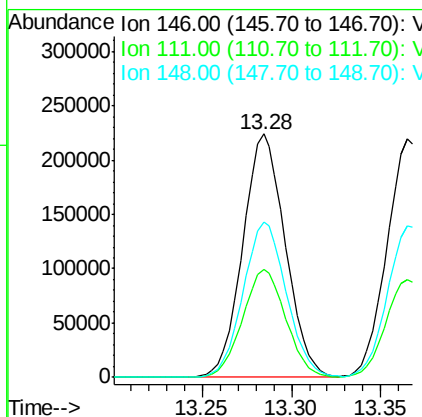
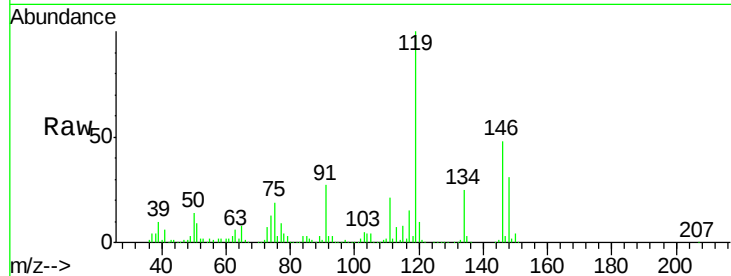
#83
 1,3-Dichlorobenzene
 Concen: 45.872 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.1	22.4	67.0
148	64.8	31.8	95.4

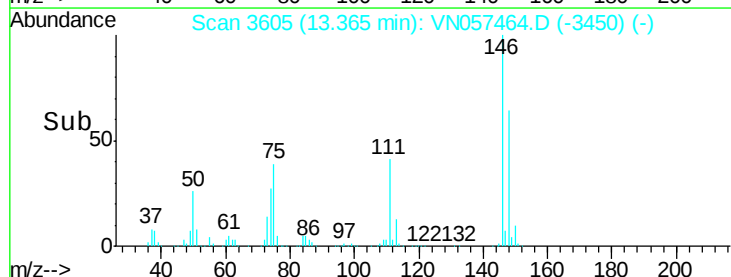
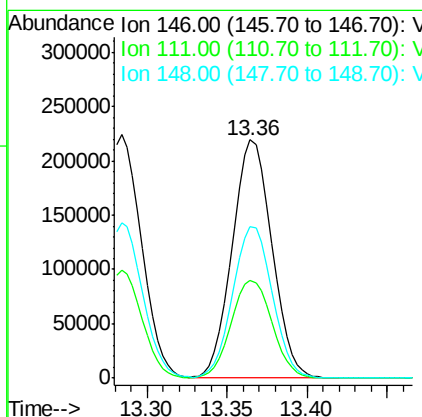
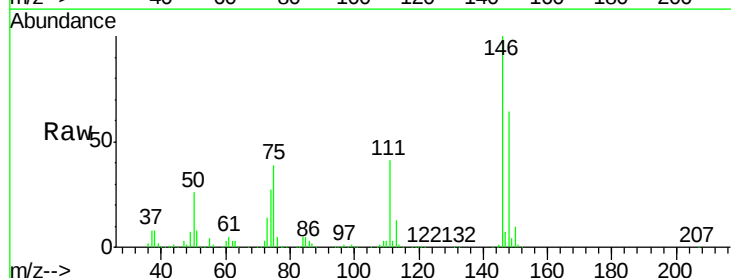
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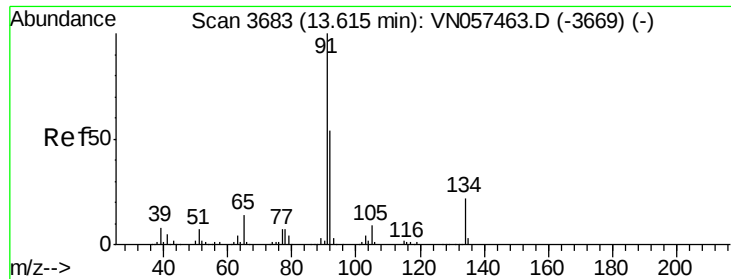
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#84
 1,4-Dichlorobenzene
 Concen: 48.327 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.5	61.5
148	63.2	31.9	95.7





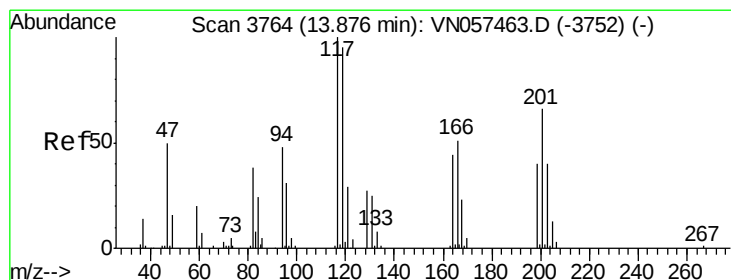
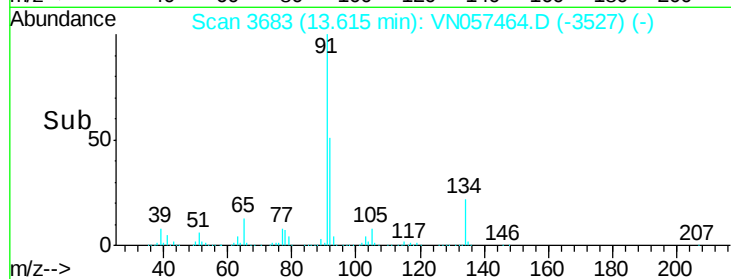
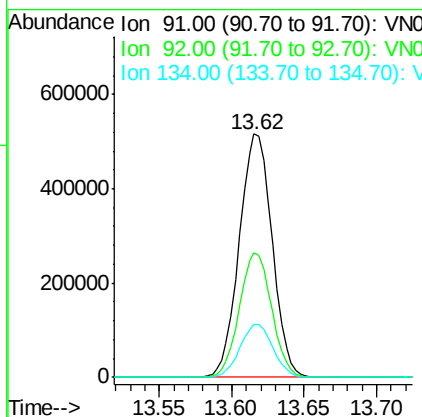
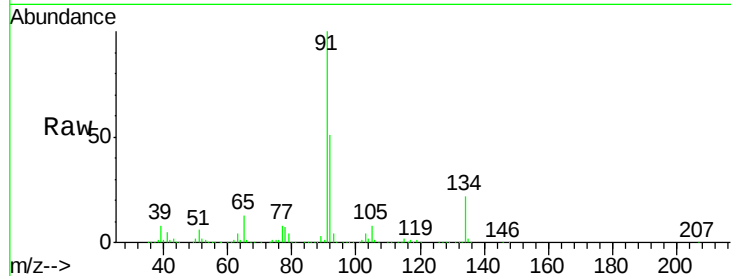
#85
n-Butylbenzene
Concen: 61.196 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	814548		
92	50.2		0.0	105.6
134	22.0		0.0	46.0

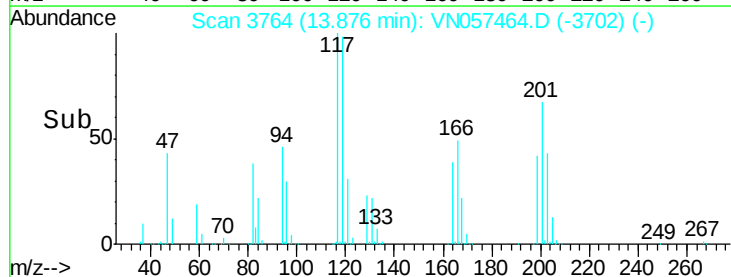
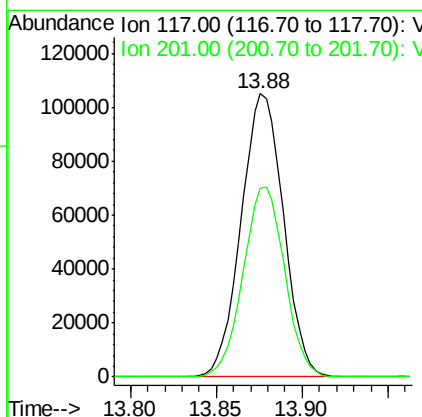
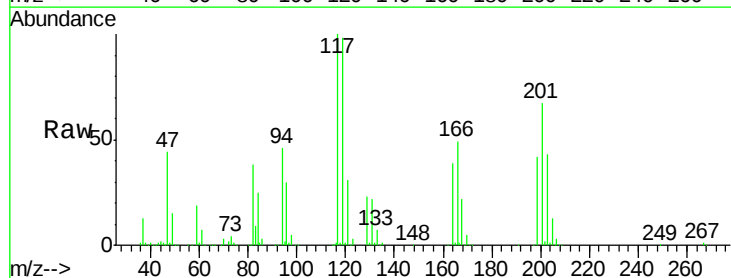
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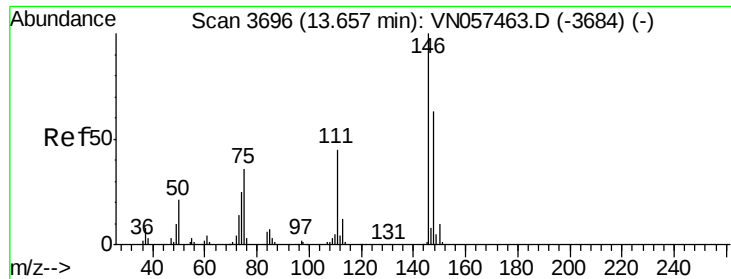
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#86
Hexachloroethane
Concen: 52.192 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN057464.D
Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	179632		
201	65.7		34.0	101.8





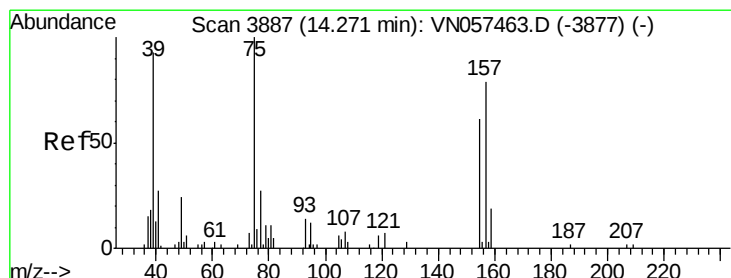
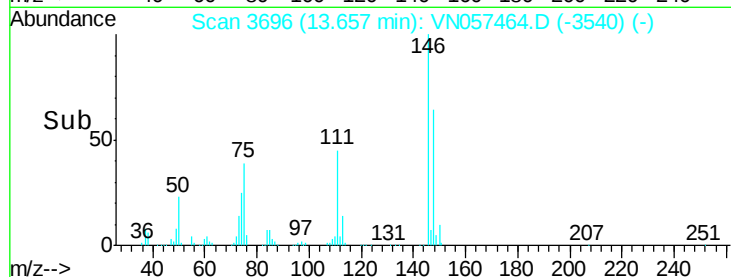
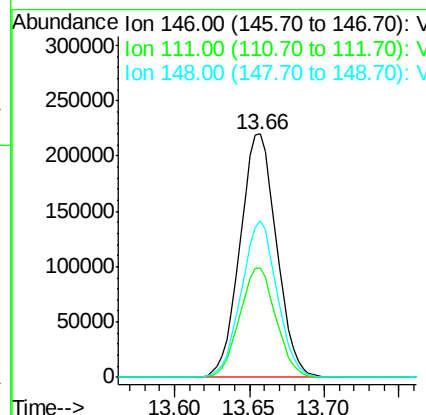
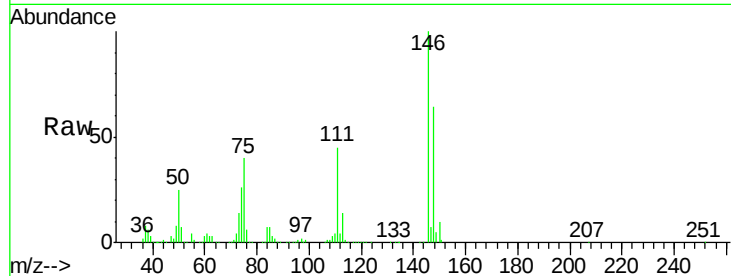
#87
 1,2-Dichlorobenzene
 Concen: 48.192 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.5	67.5
148	62.8	30.9	92.7

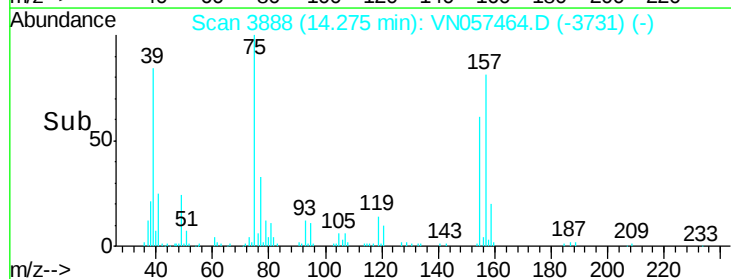
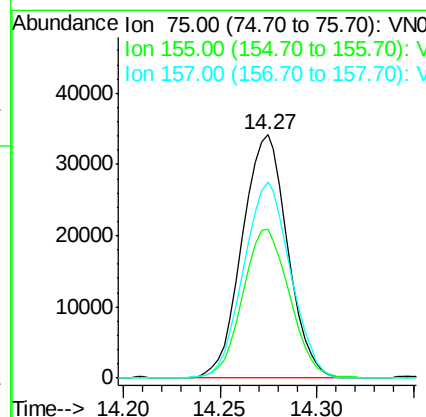
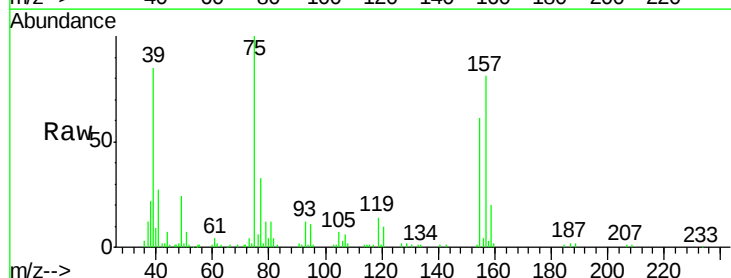
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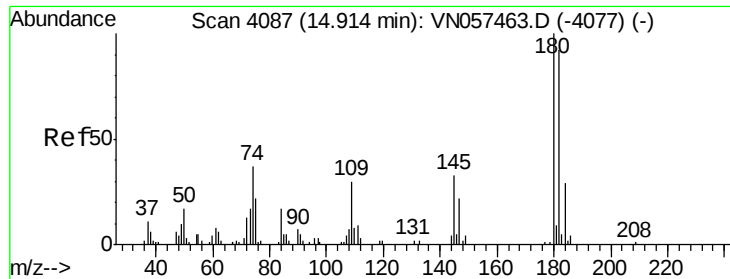
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 65.608 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	63.0	53.7	80.5
157	82.8	63.5	95.3





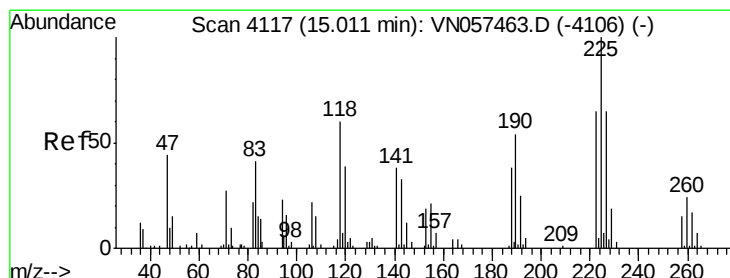
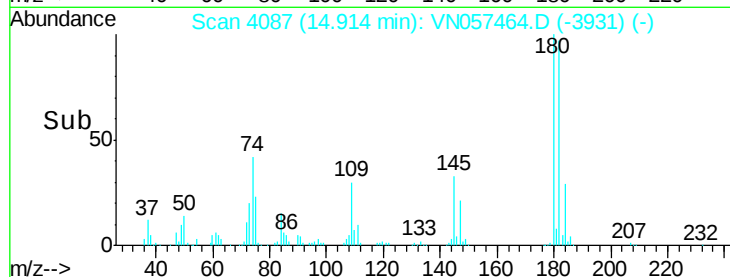
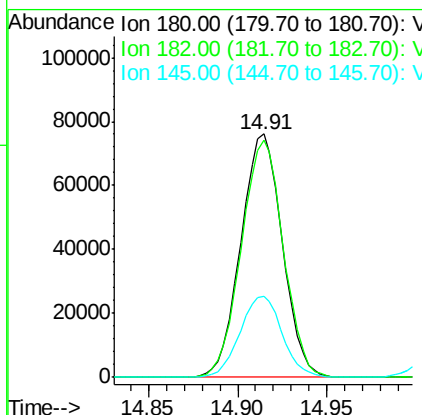
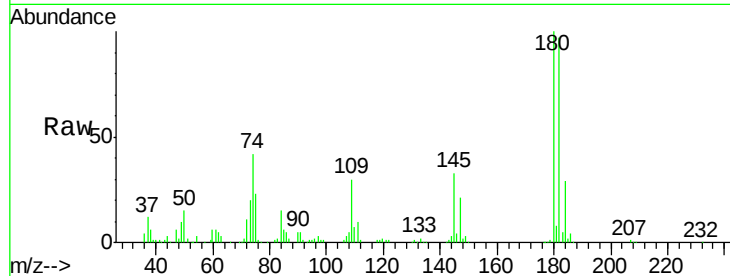
#89
 1,2,4-Trichlorobenzene
 Concen: 44.477 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.3	75.4	113.2
145	33.9	26.9	40.3

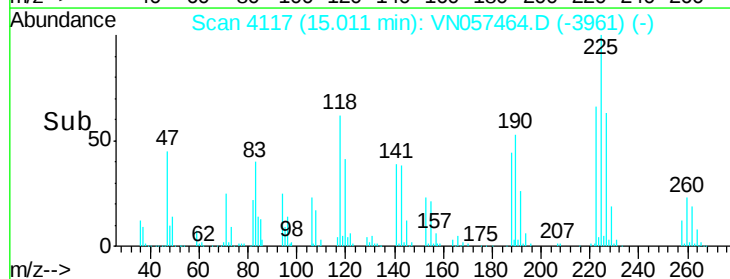
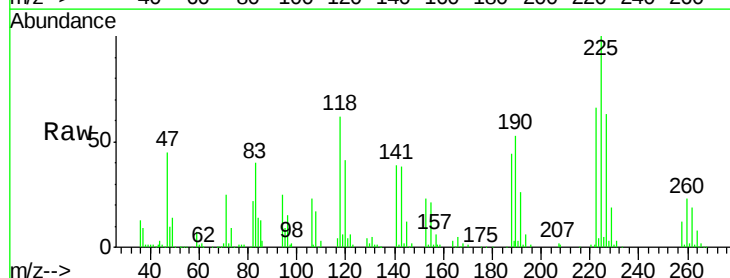
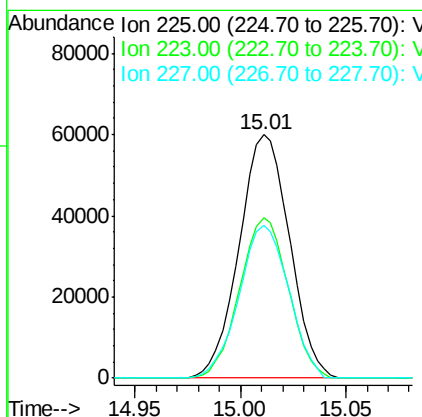
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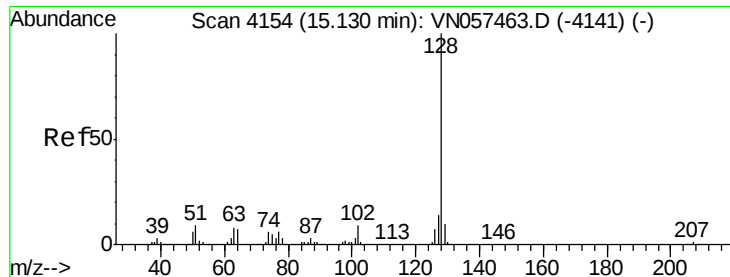
MMDadoda
 8/26/2019 1:11:54 PM



#90
 Hexachlorobutadiene
 Concen: 30.329 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057464.D
 Acq: 23 Aug 2019 10:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.6	0.0	123.6
227	61.8	0.0	126.6





#91

Naphthalene

Concen: 63.596 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Instrument :

MSVOA_N

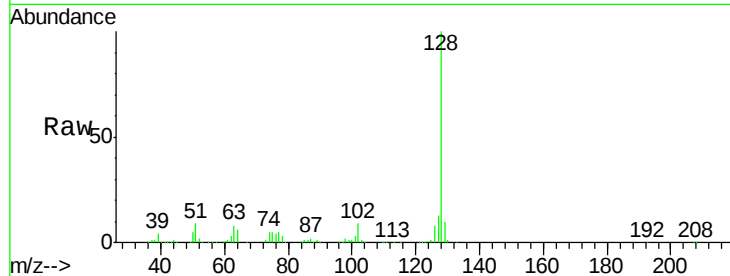
ClientSampleId :

VSTDIC050

Tot Ion:	128	Resp:	419662
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.1	15.1
129	10.5	8.6	13.0

Manual Integrations
APPROVED

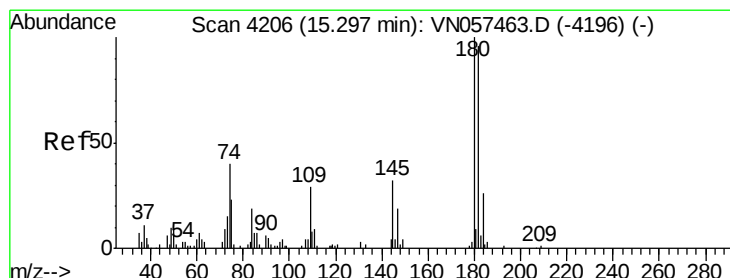
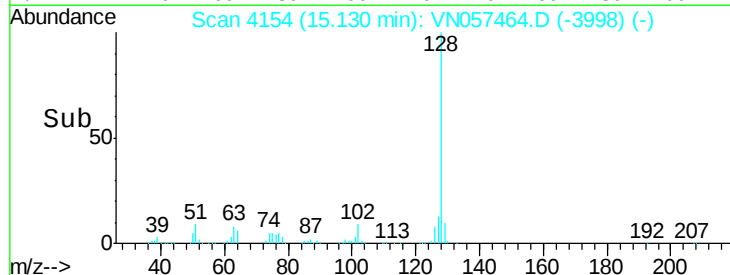
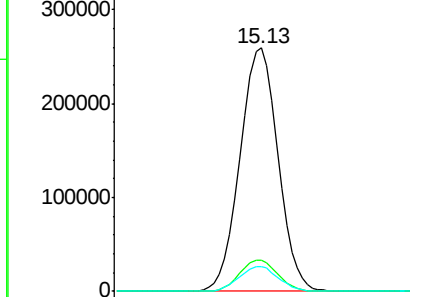
MMDadoda
8/26/2019 1:11:54 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 46.538 ug/l

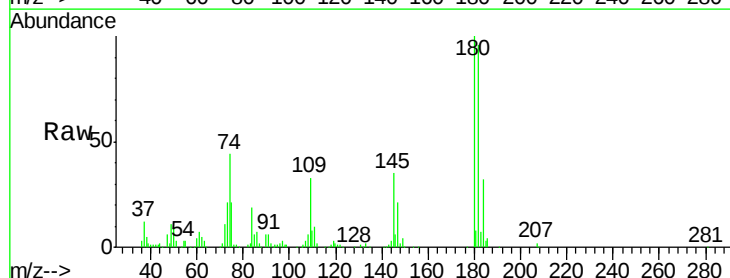
RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057464.D

Acq: 23 Aug 2019 10:03

Tgt Ion:	180	Resp:	125542
Ion Ratio	Lower	Upper	
180	100		
182	95.1	0.0	187.0
145	35.3	0.0	64.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

