

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092719\
 Data File : VN058401.D
 Acq On : 27 Sep 2019 11:55
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/30/2019 10:18:32 AM

Quant Time: Sep 27 23:32:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 27 23:01:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	459613	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	779574	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	689099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	317032	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	139300	21.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.08%	
35) Dibromofluoromethane	7.57	113	98391	20.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.48%	
50) Toluene-d8	10.09	98	388489	21.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.14%	
62) 4-Bromofluorobenzene	12.40	95	134876	19.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	104367	25.767	ug/l	98
3) Chloromethane	2.04	50	110894	28.128	ug/l	98
4) Vinyl Chloride	2.17	62	111123	27.566	ug/l	98
5) Bromomethane	2.53	94	58108	28.233	ug/l	92
6) Chloroethane	2.68	64	68409	26.193	ug/l	96
7) Trichlorofluoromethane	3.00	101	134389	24.440	ug/l	99
8) Diethyl Ether	3.39	74	59310	24.009	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	93284	23.883	ug/l	99
10) Methyl Iodide	3.93	142	96162	27.032	ug/l	98
11) Tert butyl alcohol	4.76	59	77512	101.980	ug/l	96
12) 1,1-Dichloroethene	3.72	96	90362	26.352	ug/l	97
13) Acrolein	3.58	56	21948	164.598	ug/l	97
14) Allyl chloride	4.30	41	160608	24.803	ug/l	99
15) Acrylonitrile	4.96	53	230282	111.554	ug/l	99
16) Acetone	3.79	43	251732	113.041	ug/l	98
17) Carbon Disulfide	4.03	76	224295	36.225	ug/l	98
18) Methyl Acetate	4.30	43	111060	19.292	ug/l	98
19) Methyl tert-butyl Ether	5.02	73	314858	21.935	ug/l	98
20) Methylene Chloride	4.53	84	106230	23.820	ug/l	97
21) trans-1,2-Dichloroethene	5.01	96	99396	26.725	ug/l	99
22) Diisopropyl ether	5.93	45	345782	21.893	ug/l	96
23) Vinyl Acetate	5.87	43	1403479	126.382	ug/l	99
24) 1,1-Dichloroethane	5.82	63	196789	22.964	ug/l	98
25) 2-Butanone	6.82	43	332033	110.338	ug/l	100
26) 2,2-Dichloropropane	6.81	77	162398	22.405	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	115097	23.609	ug/l	99
28) Bromochloromethane	7.18	49	81427	20.931	ug/l	98
29) Tetrahydrofuran	7.19	42	205615	109.786	ug/l	99
30) Chloroform	7.36	83	198355	21.775	ug/l	97
31) Cyclohexane	7.64	56	189013	27.496	ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	162290	23.105	ug/l	99
36) 1,1-Dichloropropene	7.78	75	151063	25.076	ug/l	99
37) Ethyl Acetate	6.91	43	136148	22.792	ug/l	99
38) Carbon Tetrachloride	7.76	117	137726	23.277	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	175505	26.968	ug/l	100
40) Benzene	8.03	78	435274	24.090	ug/l	99
41) Methacrylonitrile	7.16	41	69249	24.539	ug/l	90
42) 1,2-Dichloroethane	8.11	62	169625	22.797	ug/l	100
43) Isopropyl Acetate	8.15	43	226669	20.430	ug/l #	91
44) Trichloroethene	8.82	130	107444	24.253	ug/l	97
45) 1,2-Dichloropropane	9.11	63	119042	22.638	ug/l	98
46) Dibromomethane	9.20	93	73642	22.847	ug/l	99
47) Bromodichloromethane	9.39	83	139173	20.977	ug/l	97
48) Methyl methacrylate	9.19	41	106356	21.140	ug/l	98
49) 1,4-Dioxane	9.19	88	29832	373.742	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	662656	113.688	ug/l	99
52) Toluene	10.15	92	270697	24.075	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	149029	21.621	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	171350	22.455	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	100140	20.768	ug/l	98
56) Ethyl methacrylate	10.43	69	151737	21.660	ug/l	98
57) 1,3-Dichloropropane	10.71	76	178834	21.402	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	313079	97.642	ug/l	100
59) 2-Hexanone	10.75	43	484026	112.089	ug/l	99
60) Dibromochloromethane	10.90	129	93938	20.239	ug/l	99
61) 1,2-Dibromoethane	11.00	107	104035	22.816	ug/l	99
64) Tetrachloroethene	10.63	164	88791	24.887	ug/l	98
65) Chlorobenzene	11.43	112	276538	22.142	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	93322	20.929	ug/l	98
67) Ethyl Benzene	11.51	91	521566	24.172	ug/l	100
68) m/p-Xylenes	11.62	106	380783	46.795	ug/l	99
69) o-Xylene	11.95	106	185766	23.338	ug/l	100
70) Styrene	11.97	104	302048	22.266	ug/l	99
71) Bromoform	12.13	173	54374	19.369	ug/l #	100
73) Isopropylbenzene	12.25	105	499354	24.339	ug/l	100
74) N-amyl acetate	12.07	43	190727	22.486	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	144688	21.610	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	123573m	21.472	ug/l	
77) Bromobenzene	12.53	156	112764	22.043	ug/l	99
78) n-propylbenzene	12.60	91	568282	24.359	ug/l	100
79) 2-Chlorotoluene	12.68	91	333675	23.012	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	416437	24.082	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	36599	20.675	ug/l	91
82) 4-Chlorotoluene	12.78	91	346803	22.872	ug/l	100
83) tert-Butylbenzene	13.00	119	347486	22.752	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	417114	24.225	ug/l	99
85) sec-Butylbenzene	13.18	105	460865	23.076	ug/l	99
86) p-Isopropyltoluene	13.29	119	405226	22.874	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	202697	21.850	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	200653	21.248	ug/l	98
89) n-Butylbenzene	13.62	91	363738	21.959	ug/l	98
90) Hexachloroethane	13.88	117	59696	21.765	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	199766	21.651	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.28	75	25950	21.573	ug/l	91

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ClientSampleId :
VSTDICC020

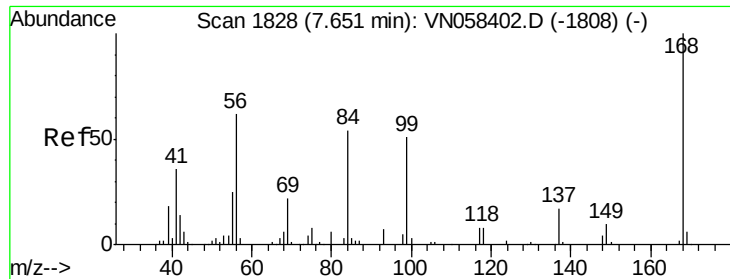
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	109397	18.846	ug/l	100
94) Hexachlorobutadiene	15.02	225	54627	19.437	ug/l	99
95) Naphthalene	15.13	128	283335	18.878	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	98237	18.019	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 459613

Ion Ratio Lower Upper

168 100

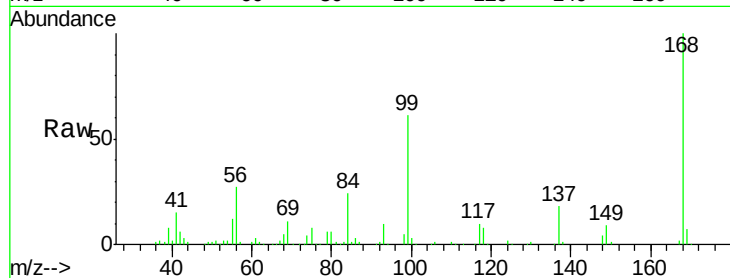
99 60.9 47.7 71.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

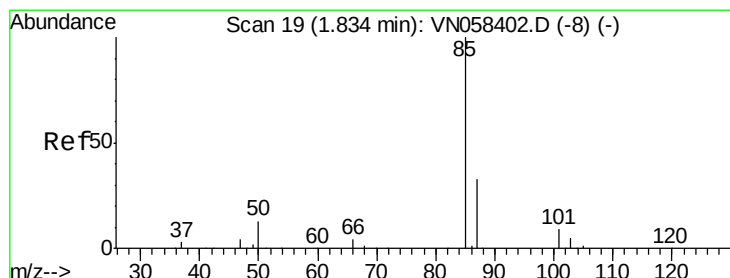
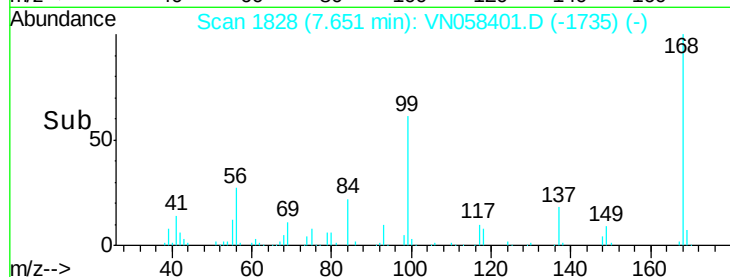
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50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 25.767 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058401.D

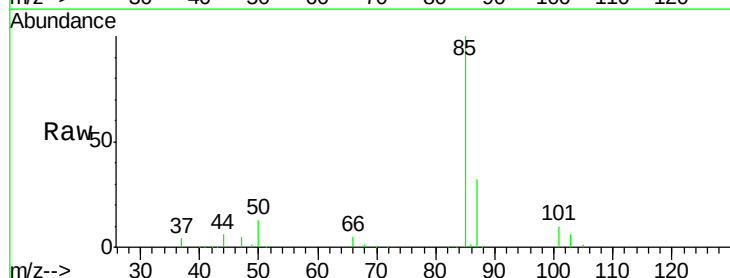
Acq: 27 Sep 2019 11:55

Tgt Ion: 85 Resp: 104367

Ion Ratio Lower Upper

85 100

87 31.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

80000

60000

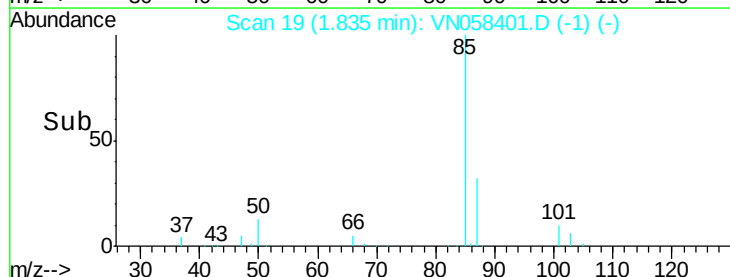
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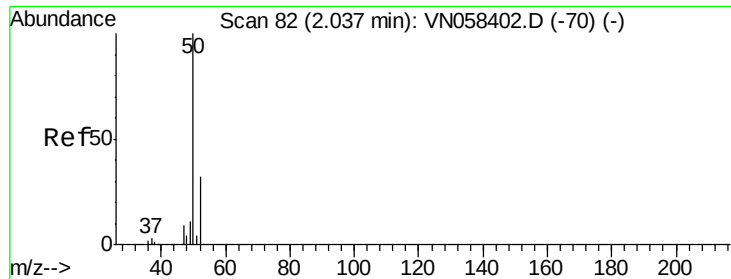
20000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 28.128 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 50 Resp: 110894

Ion Ratio Lower Upper

50 100

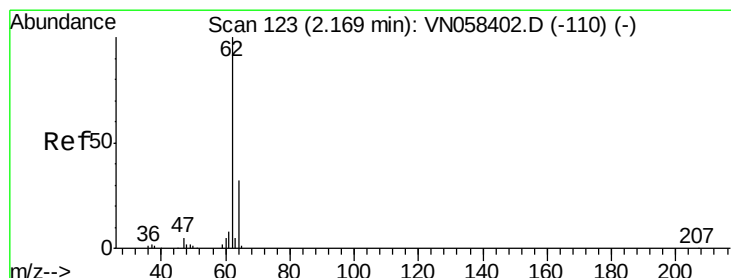
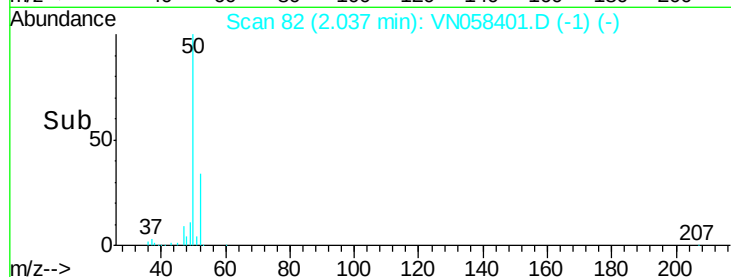
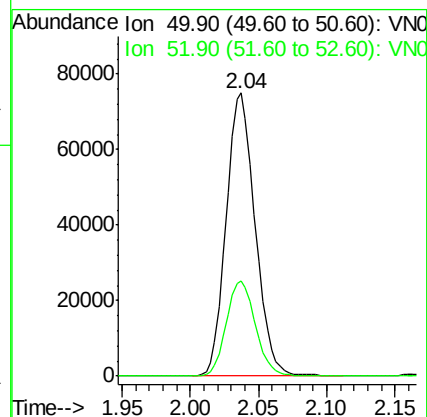
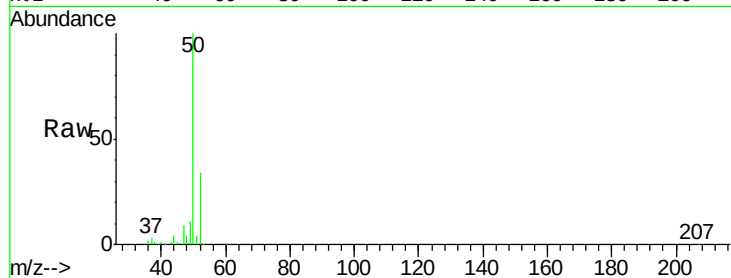
52 33.5 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 27.566 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058401.D

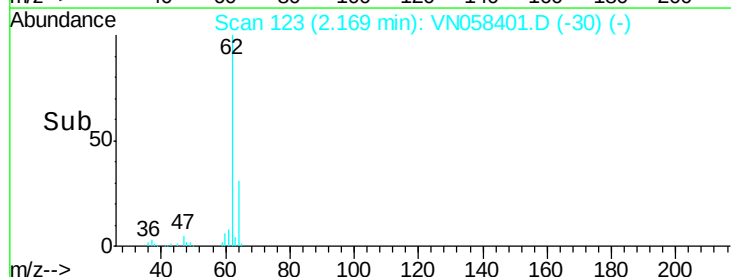
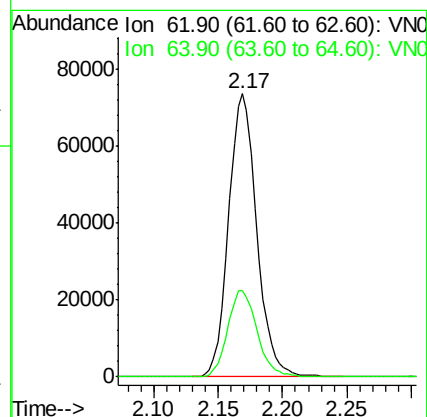
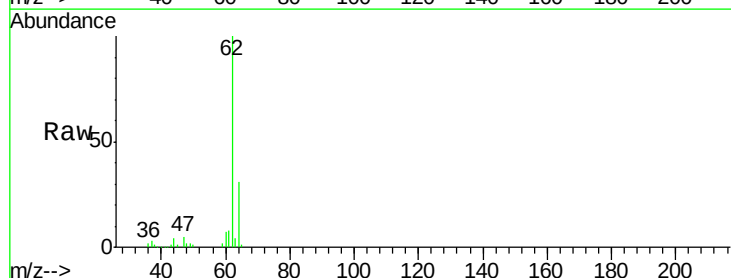
Acq: 27 Sep 2019 11:55

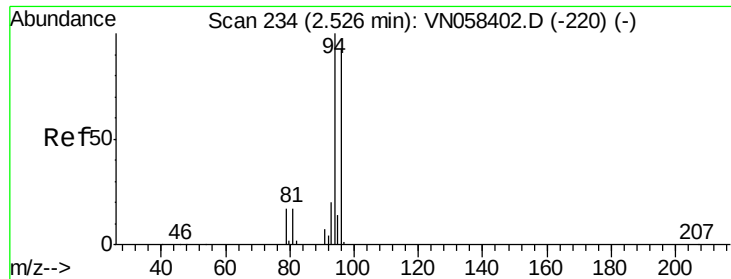
Tgt Ion: 62 Resp: 111123

Ion Ratio Lower Upper

62 100

64 30.7 25.5 38.3





#5

Bromomethane

Concen: 28.233 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 58108

Ion Ratio Lower Upper

94 100

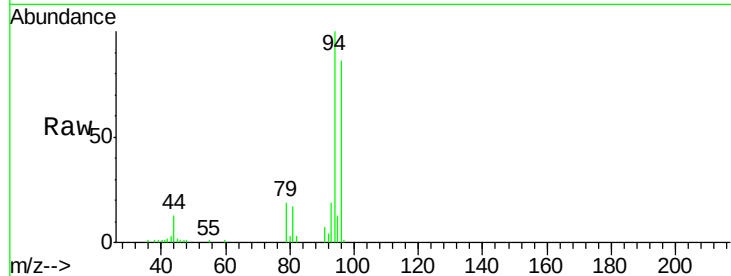
96 85.4 74.8 112.2

Manual Integrations

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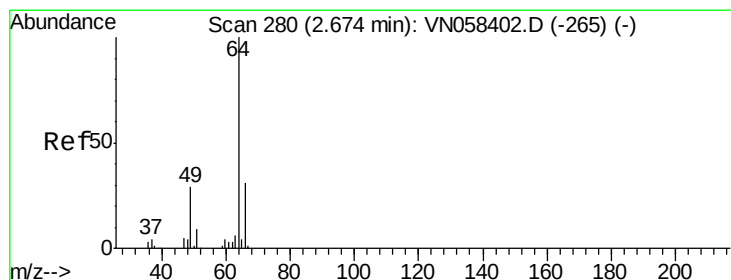
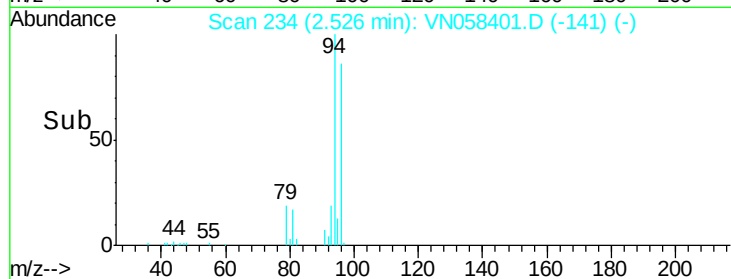
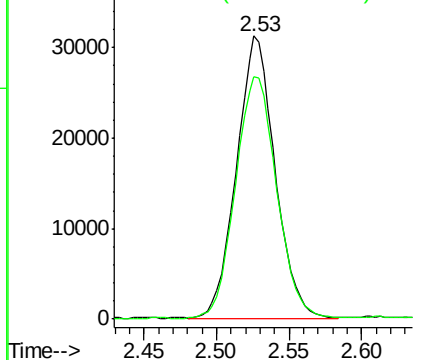
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 26.193 ug/l

RT: 2.68 min Scan# 281

Delta R.T. 0.00 min

Lab File: VN058401.D

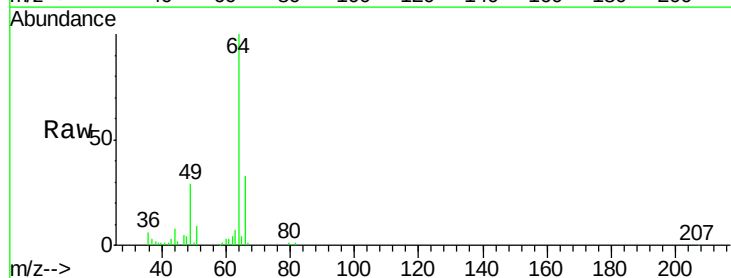
Acq: 27 Sep 2019 11:55

Tgt Ion: 64 Resp: 68409

Ion Ratio Lower Upper

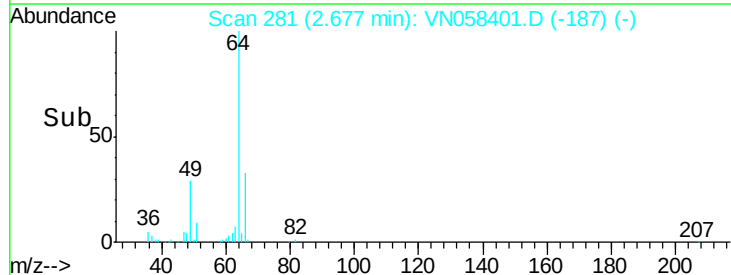
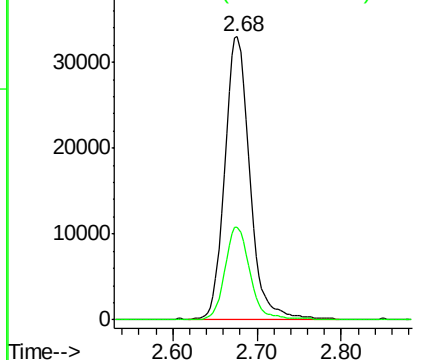
64 100

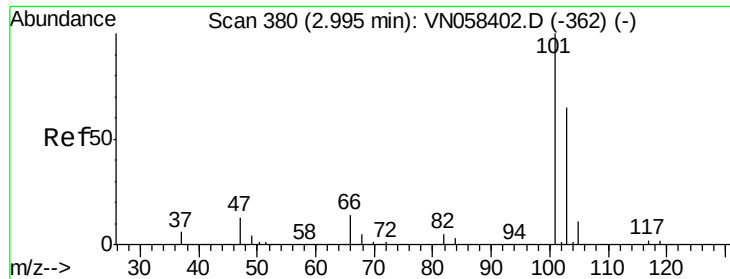
66 32.7 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

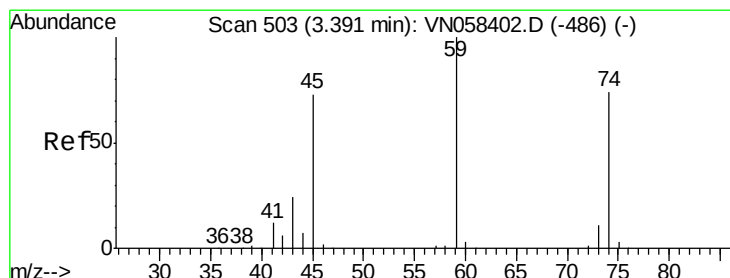
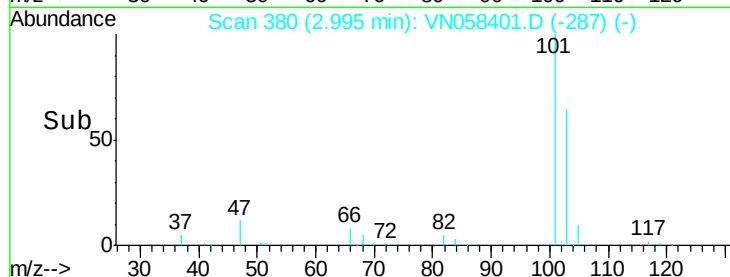
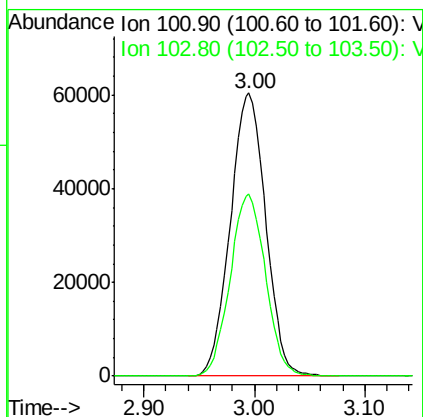
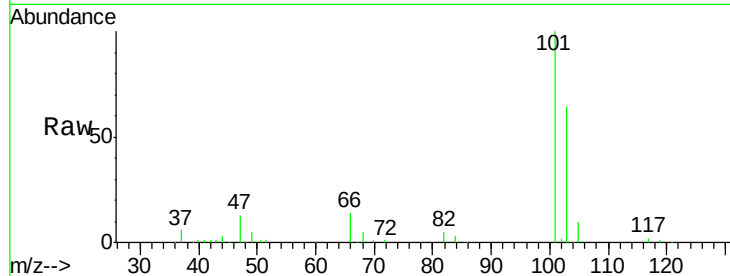
Trichlorofluoromethane
Concen: 24.440 ug/l
RT: 3.00 min Scan# 380
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
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ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	52.3	78.5

Manual Integrations
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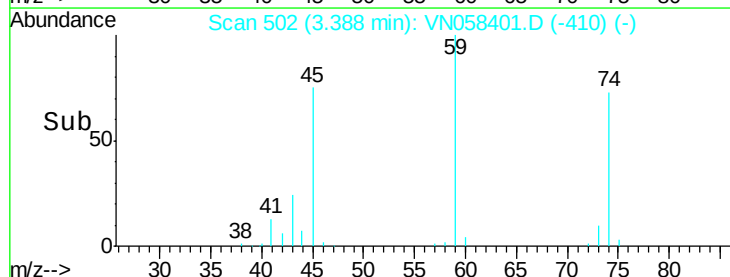
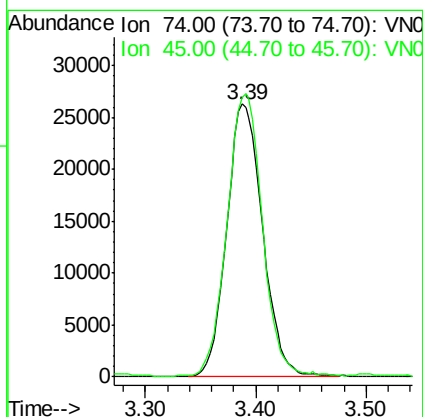
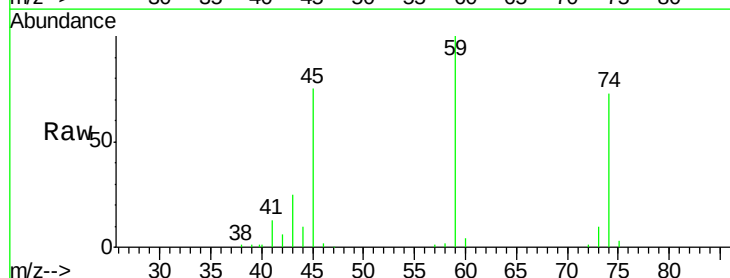
MMDadoda
9/30/2019 10:18:32 AM

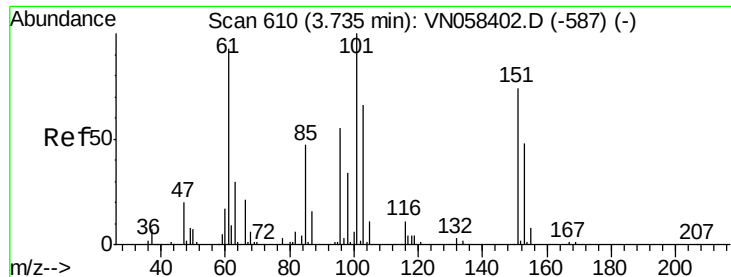


#8

Diethyl Ether
Concen: 24.009 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.8	50.5	151.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.883 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

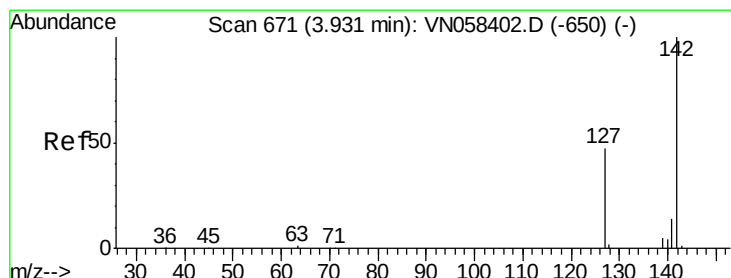
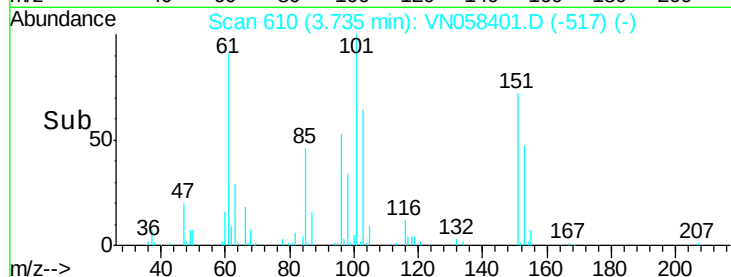
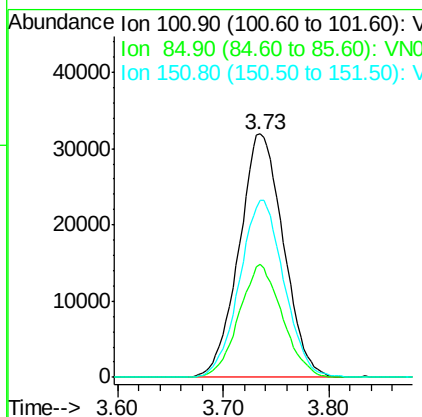
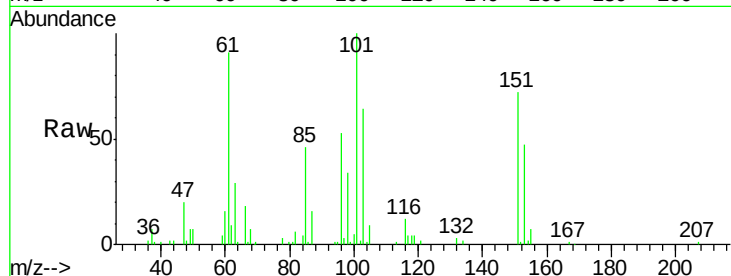
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	93284
Ion Ratio	Lower	Upper	
101	100		
85	45.1	36.7	55.1
151	72.9	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 27.032 ug/l

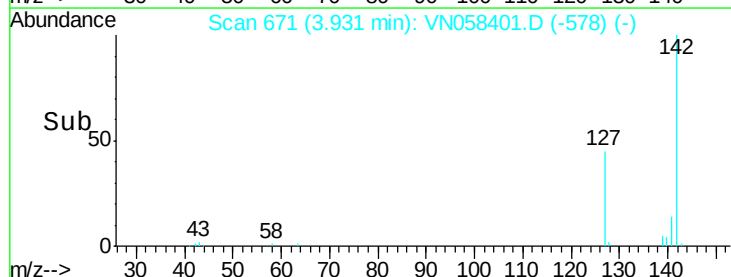
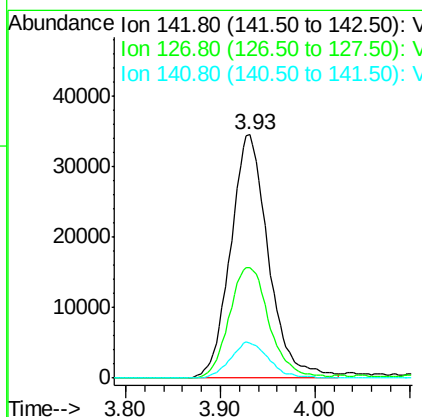
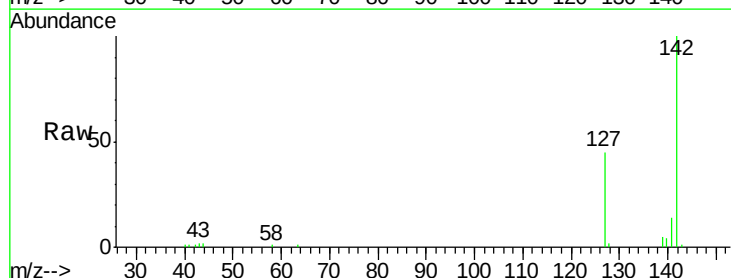
RT: 3.93 min Scan# 671

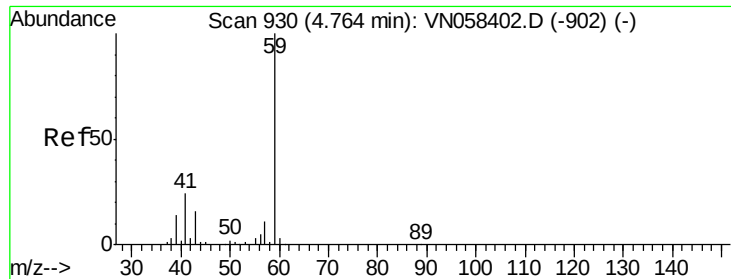
Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	142	Resp:	96162
Ion Ratio	Lower	Upper	
142	100		
127	47.9	37.2	55.8
141	14.8	11.3	16.9





#11

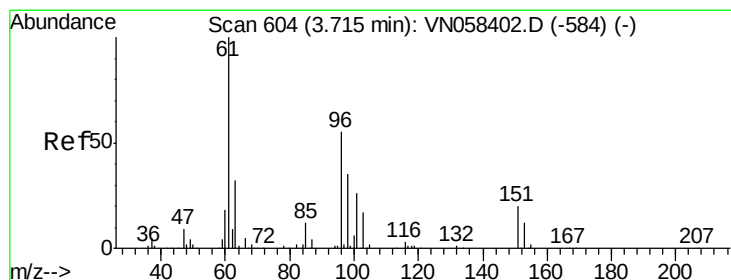
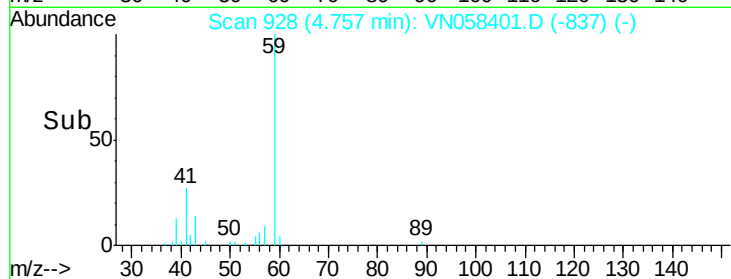
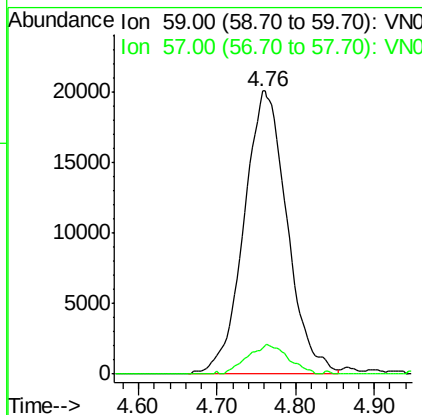
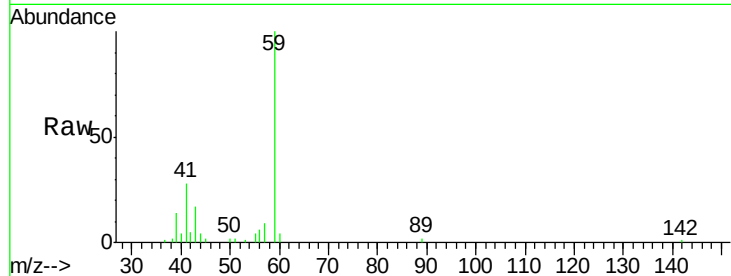
Tert butyl alcohol
 Concen: 101.980 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	9.0	13.4

Manual Integrations
 APPROVED

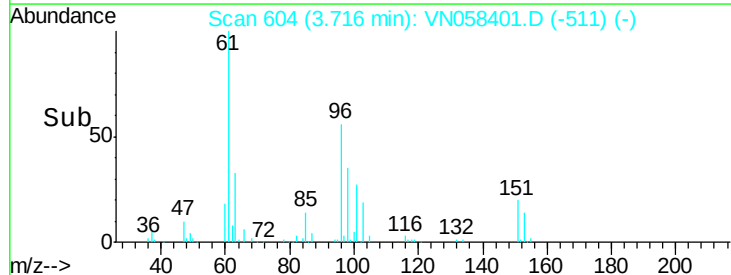
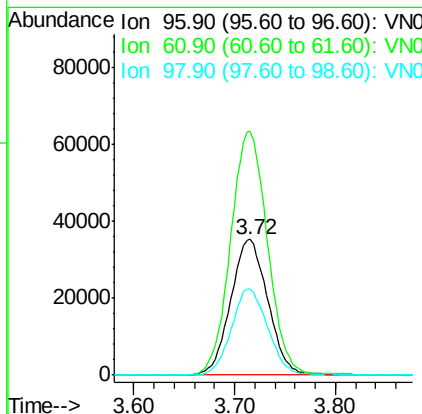
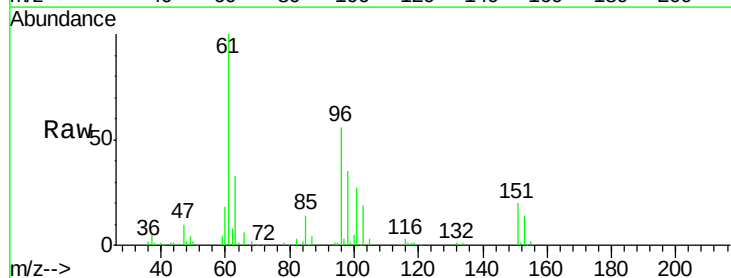
MMDadoda
 9/30/2019 10:18:32 AM

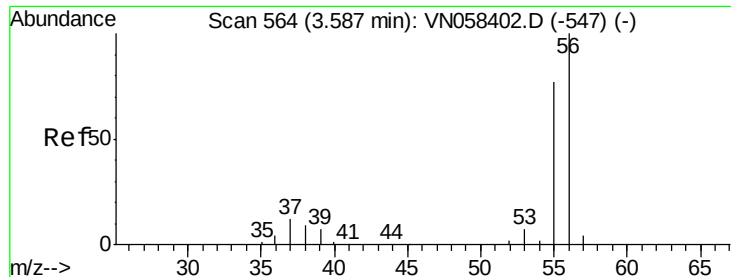


#12

1,1-Dichloroethene
 Concen: 26.352 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.0	146.7	220.1
98	63.1	51.3	76.9





#13

Acrolein

Concen: 164.598 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 56 Resp: 21948

Ion Ratio Lower Upper

56 100

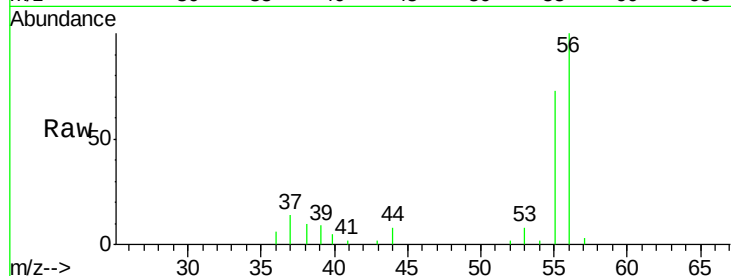
55 75.5 58.3 87.5

Manual Integrations

APPROVED

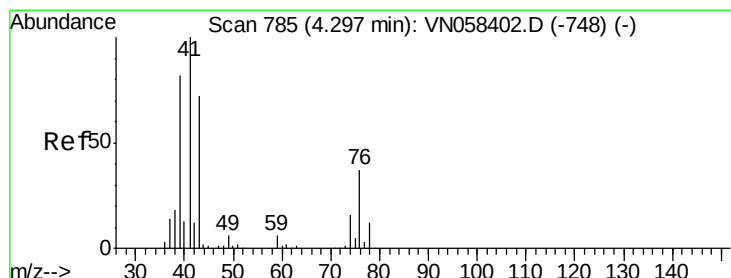
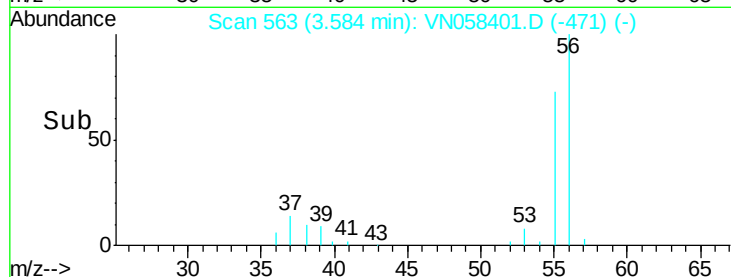
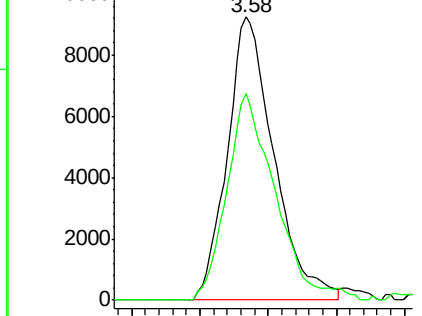
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 24.803 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

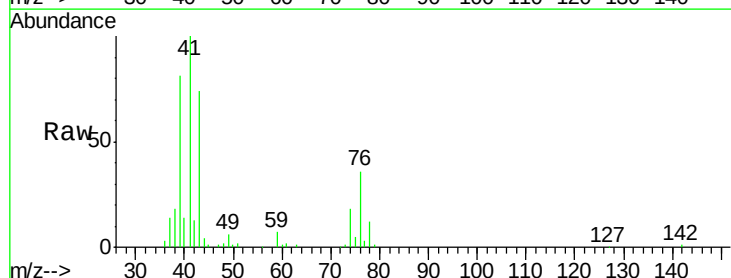
Tgt Ion: 41 Resp: 160608

Ion Ratio Lower Upper

41 100

39 78.5 62.3 93.5

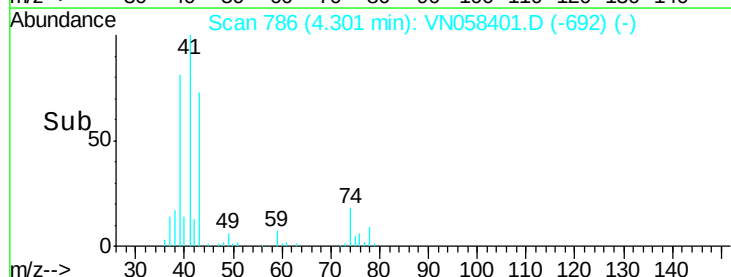
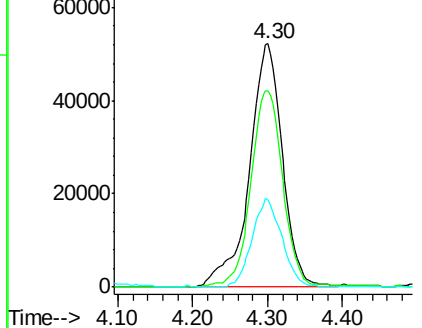
76 32.9 26.9 40.3

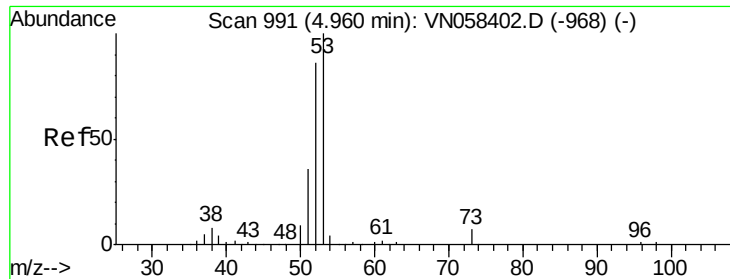


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 111.554 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

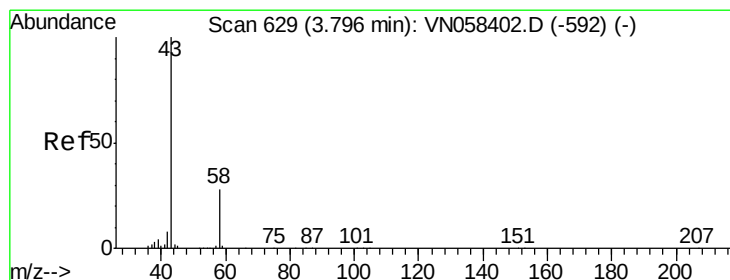
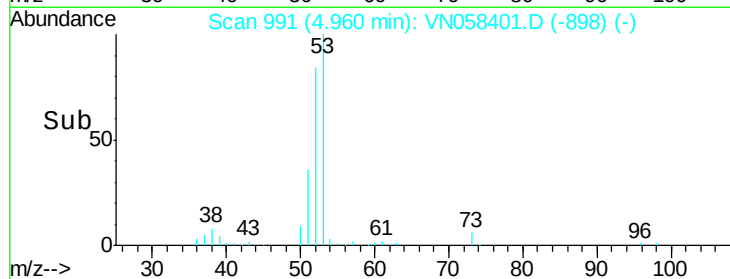
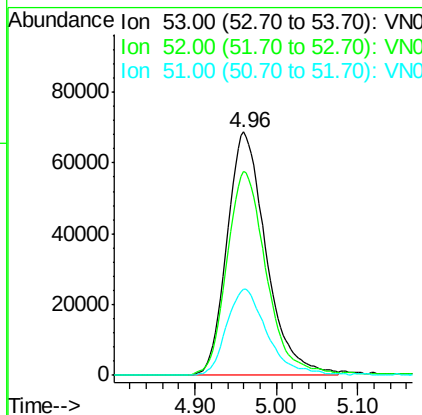
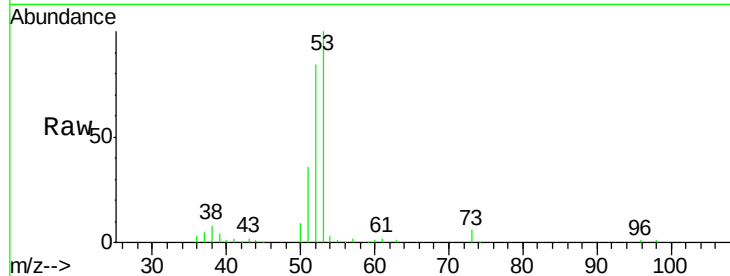
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	230282
Ion Ratio	Lower	Upper	
53	100		
52	83.9	66.6	100.0
51	36.6	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 113.041 ug/l

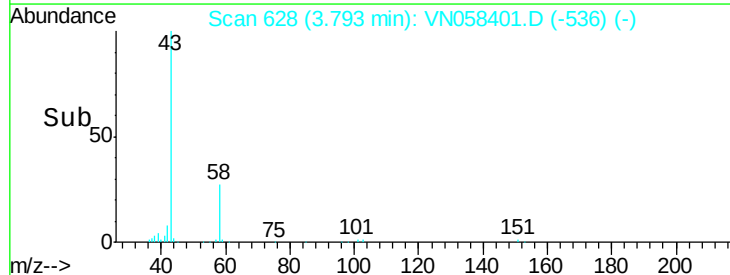
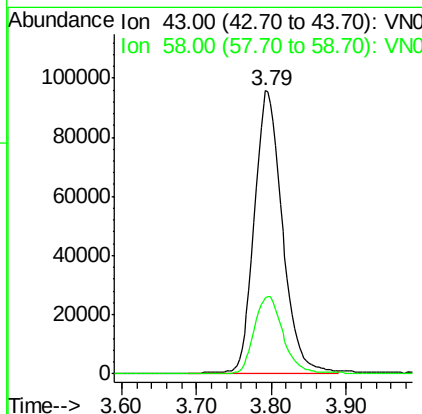
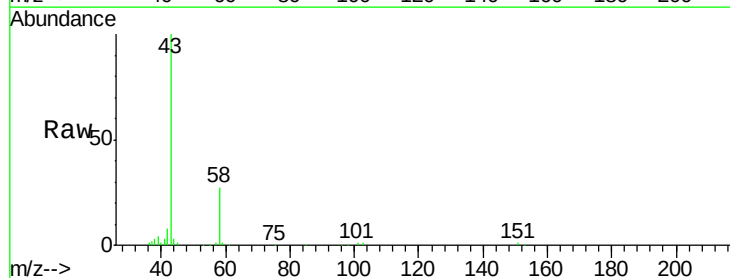
RT: 3.79 min Scan# 628

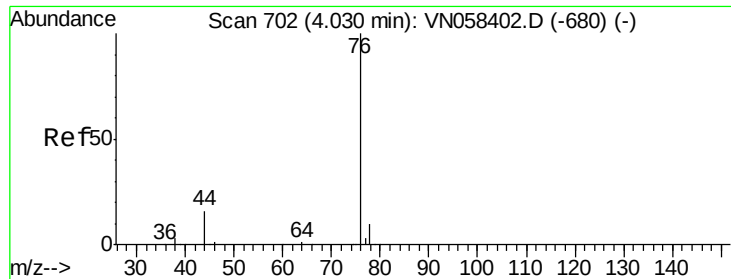
Delta R.T. -0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	43	Resp:	251732
Ion Ratio	Lower	Upper	
43	100		
58	26.8	22.4	33.6





#17

Carbon Disulfide

Concen: 36.225 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 224295

Ion Ratio Lower Upper

76 100

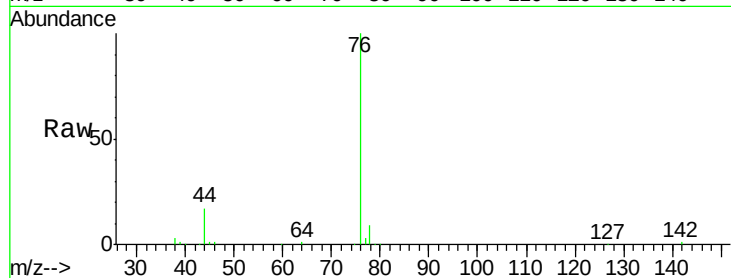
78 9.0 7.7 11.5

Manual Integrations

APPROVED

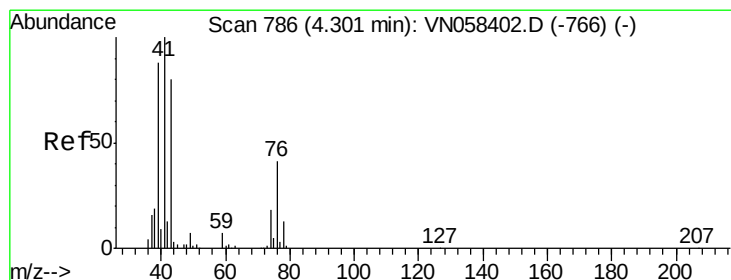
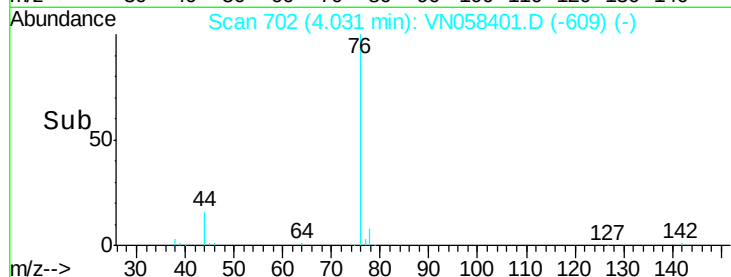
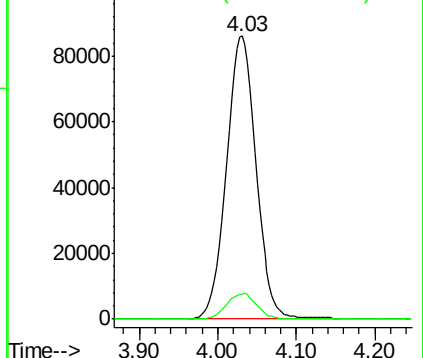
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 19.292 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058401.D

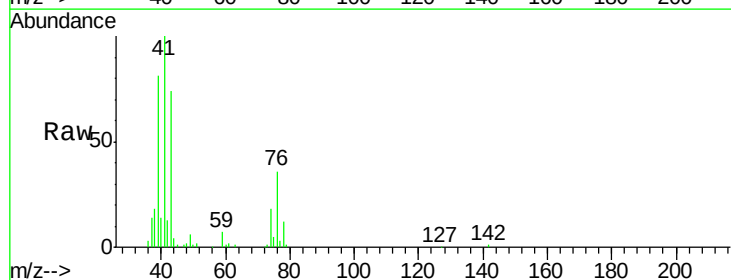
Acq: 27 Sep 2019 11:55

Tgt Ion: 43 Resp: 111060

Ion Ratio Lower Upper

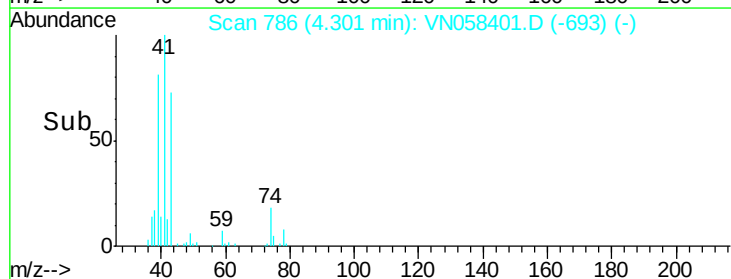
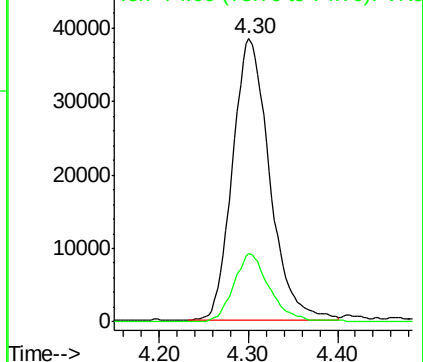
43 100

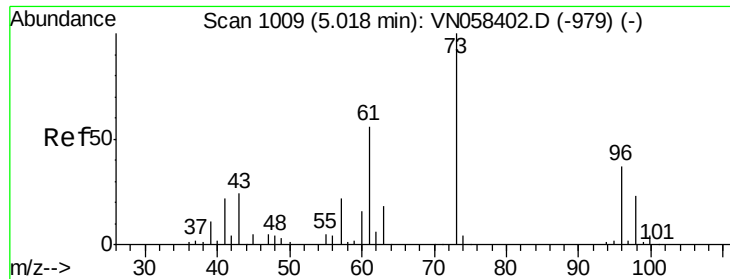
74 23.4 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





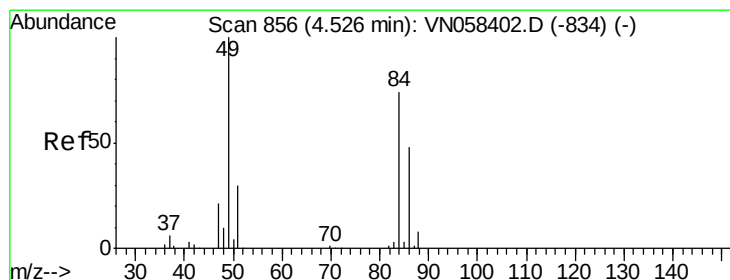
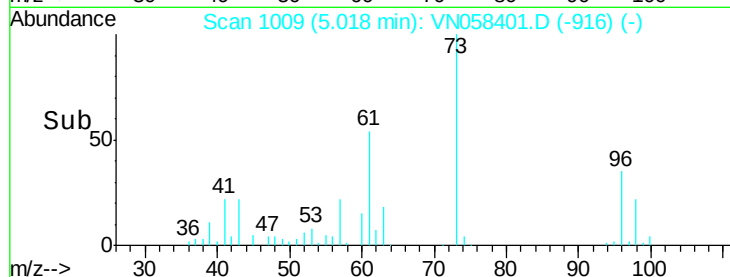
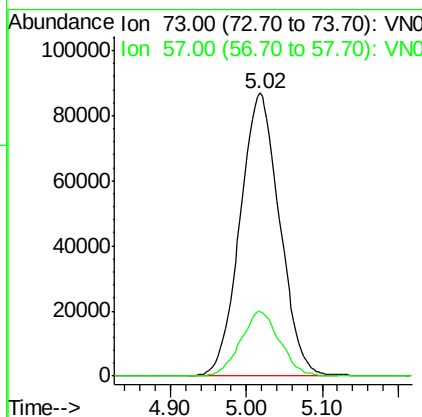
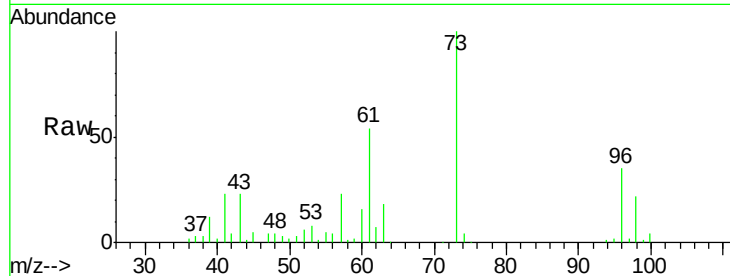
#19
Methyl tert-butyl Ether
Concen: 21.935 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.6	26.4

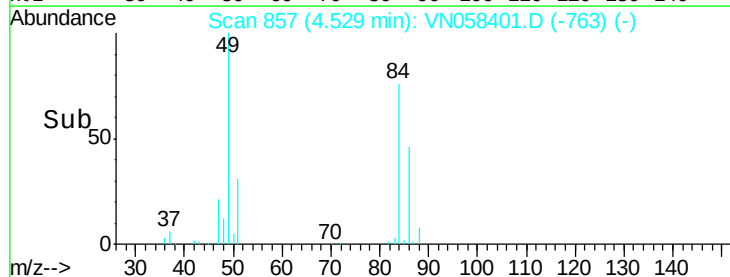
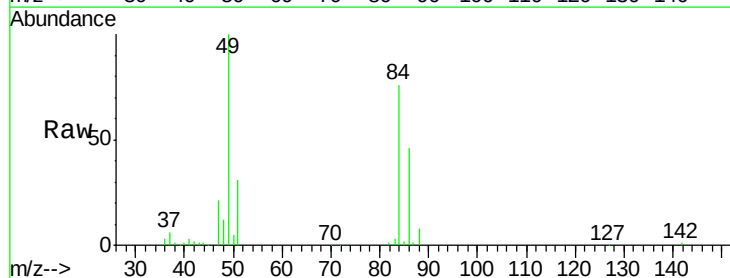
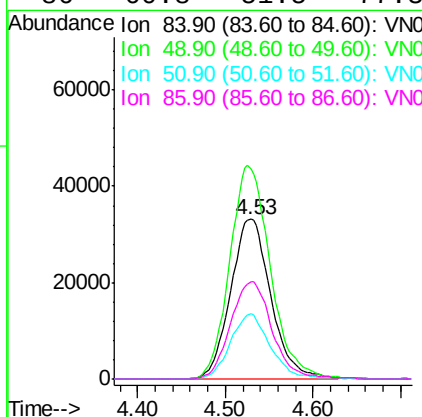
Manual Integrations
APPROVED

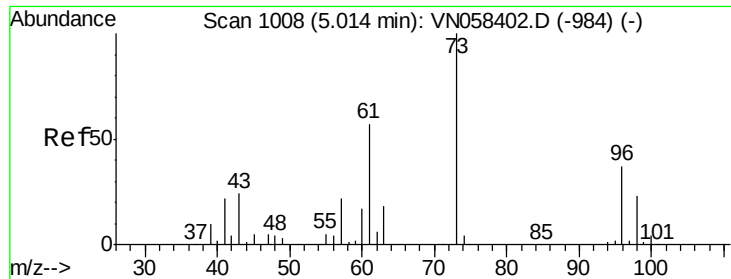
MMDadoda
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#20
Methylene Chloride
Concen: 23.820 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.4	107.9	161.9
51	41.1	32.8	49.2
86	60.8	51.5	77.3





#21

trans-1,2-Dichloroethene

Concen: 26.725 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 99396

Ion Ratio Lower Upper

96 100

61 151.4 121.9 182.9

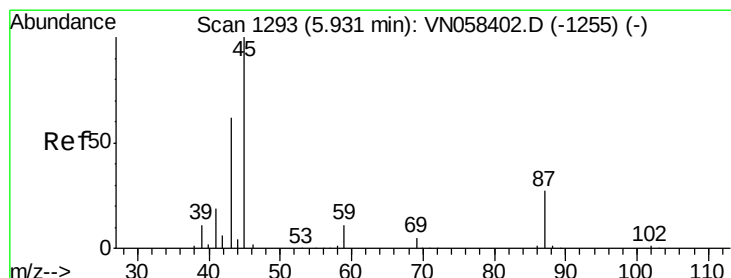
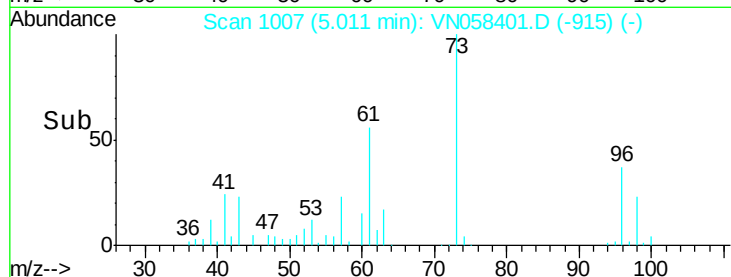
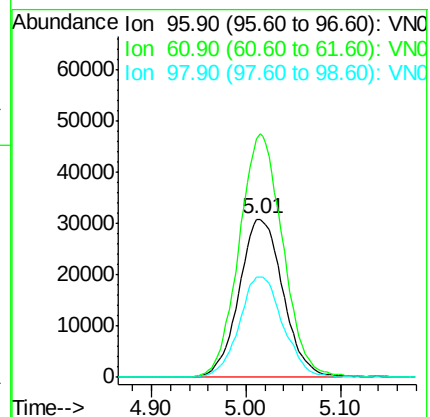
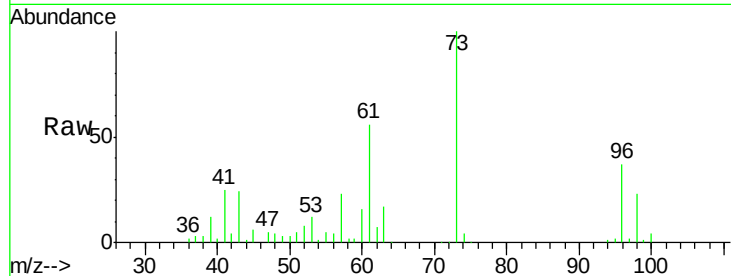
98 63.1 49.3 73.9

Manual Integrations

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#22

Diisopropyl ether

Concen: 21.893 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion: 45 Resp: 345782

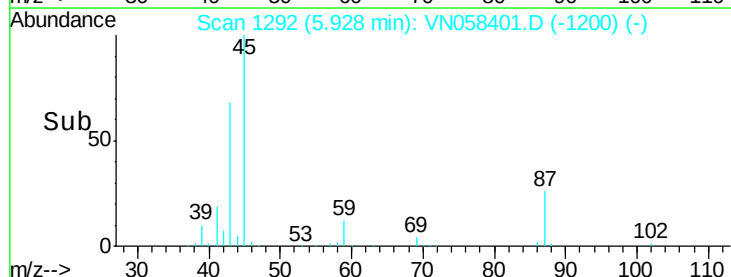
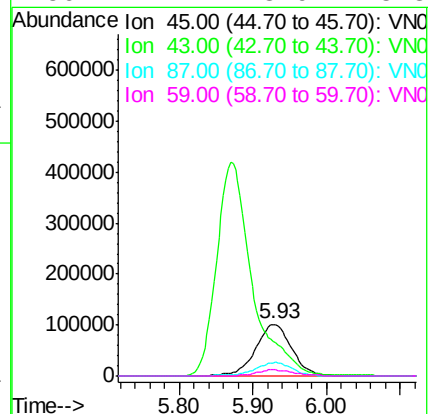
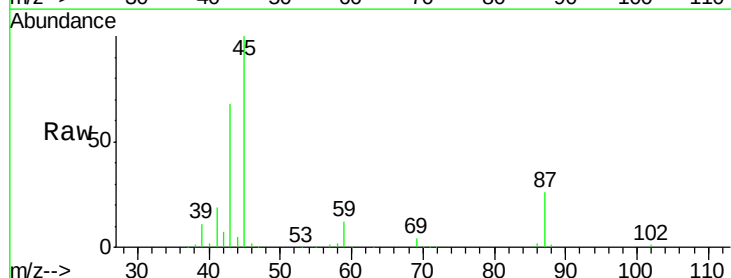
Ion Ratio Lower Upper

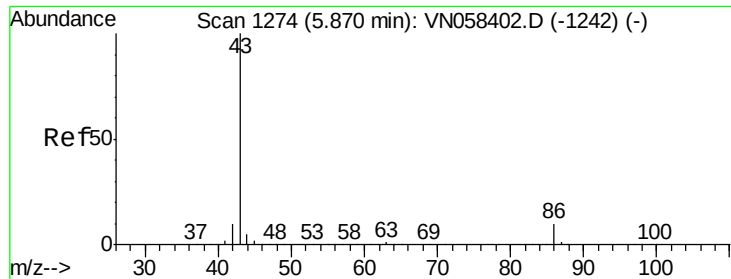
45 100

43 65.8 49.7 74.5

87 25.6 21.5 32.3

59 11.7 8.9 13.3





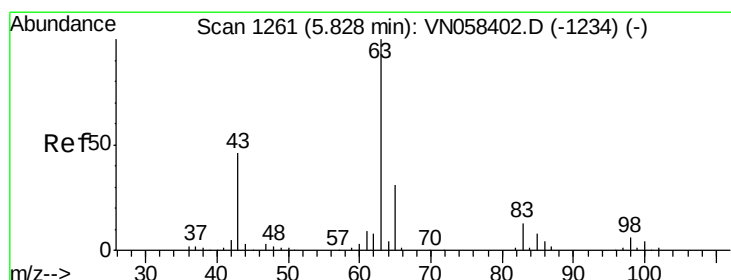
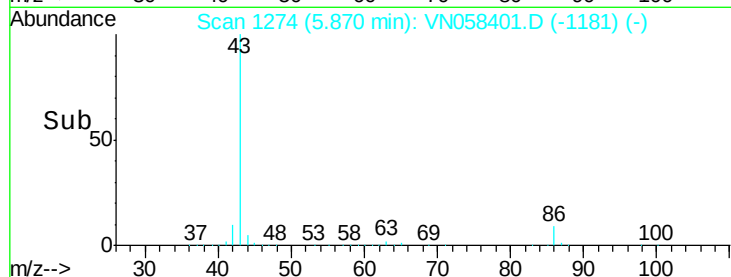
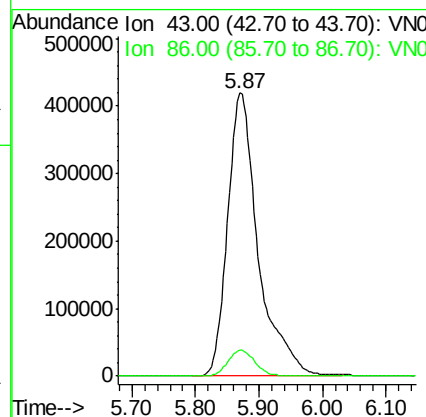
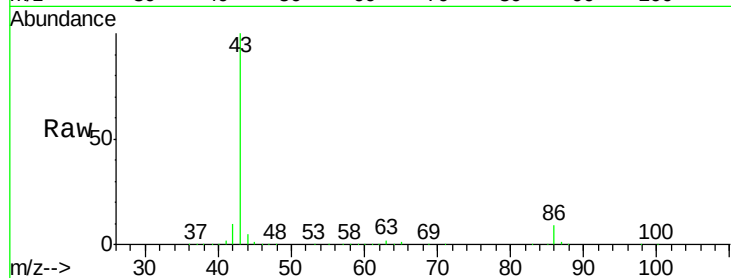
#23
 Vinyl Acetate
 Concen: 126.382 ug/l
 RT: 5.87 min Scan# 1274
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 1403479
 Ion Ratio Lower Upper
 43 100
 86 9.2 7.7 11.5

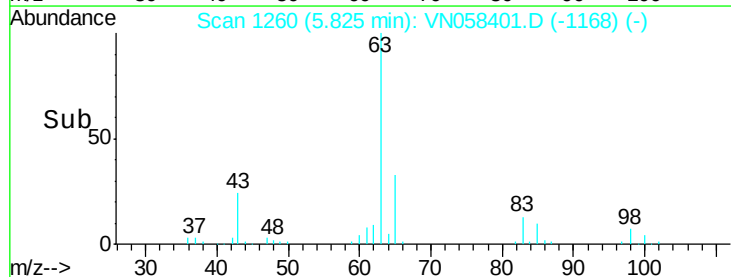
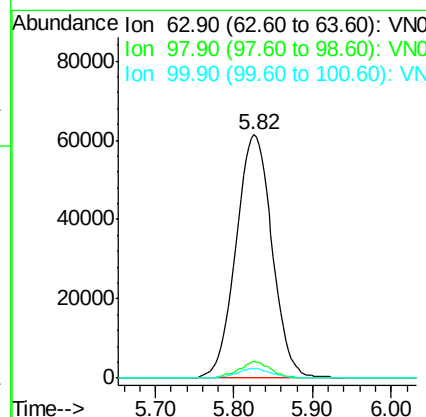
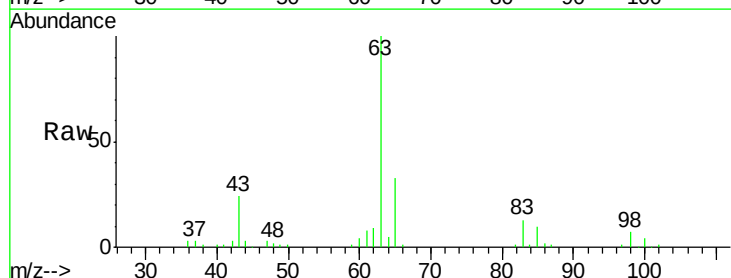
Manual Integrations
 APPROVED

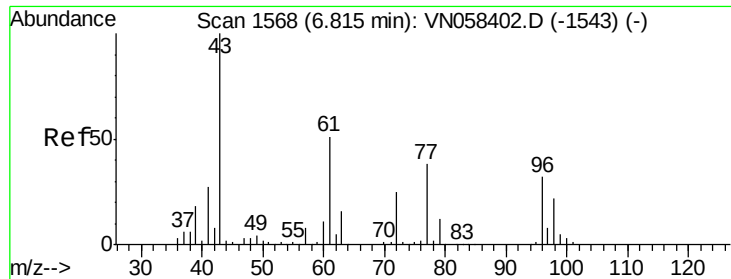
MMDadoda
 9/30/2019 10:18:32 AM



#24
 1,1-Dichloroethane
 Concen: 22.964 ug/l
 RT: 5.82 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion: 63 Resp: 196789
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.0 9.0
 100 3.7 2.0 5.8





#25

2-Butanone

Concen: 110.338 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 332033

Ion Ratio Lower Upper

43 100

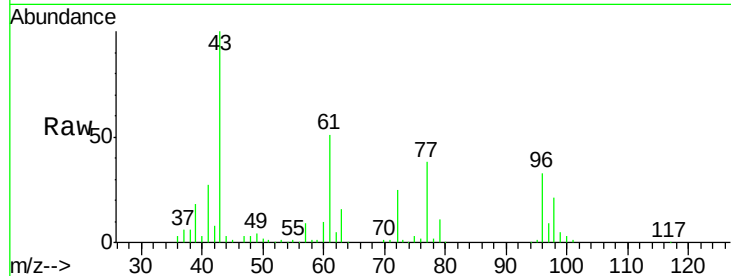
72 25.4 20.2 30.4

Manual Integrations

APPROVED

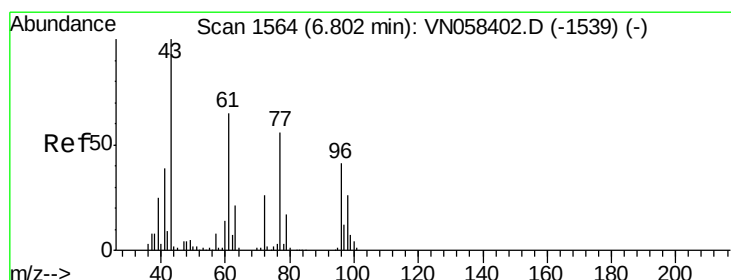
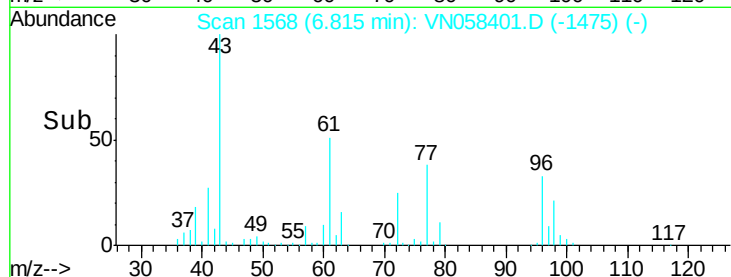
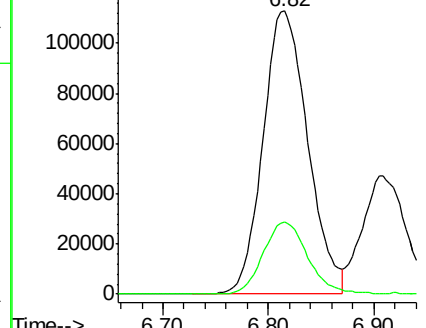
MMDadoda

9/30/2019 10:18:32 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 22.405 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058401.D

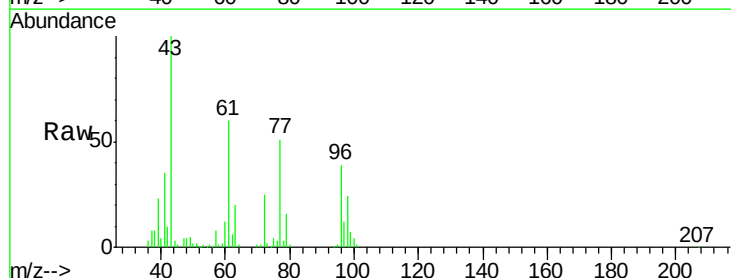
Acq: 27 Sep 2019 11:55

Tgt Ion: 77 Resp: 162398

Ion Ratio Lower Upper

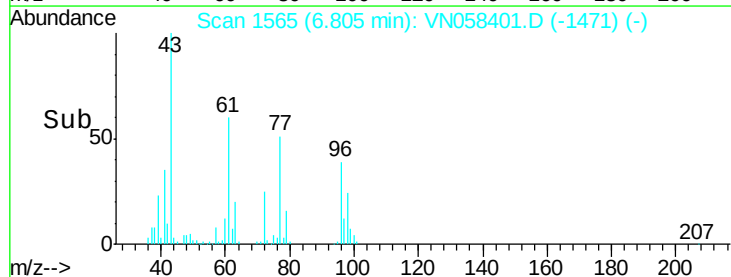
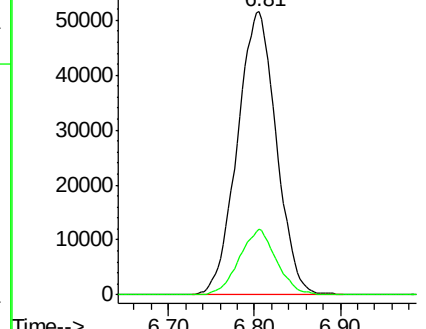
77 100

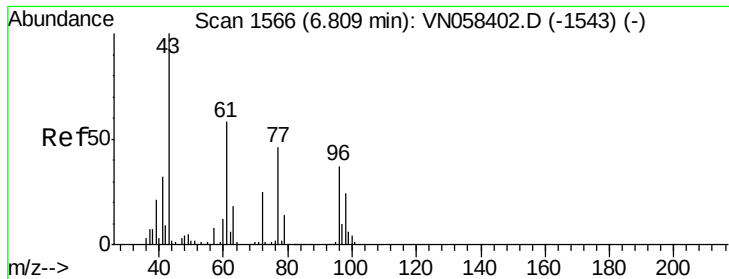
97 22.0 10.9 32.6



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 23.609 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

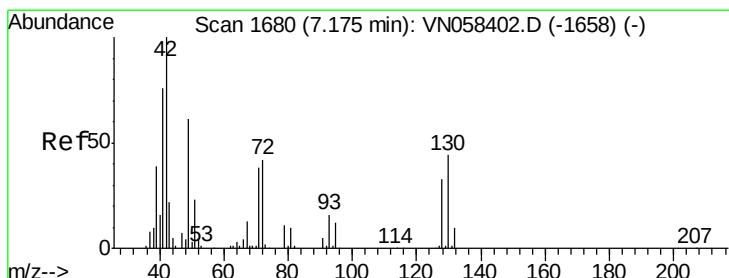
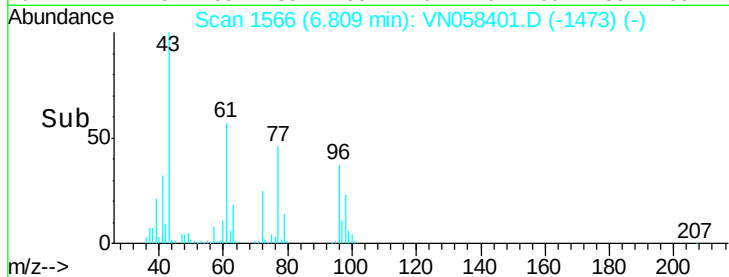
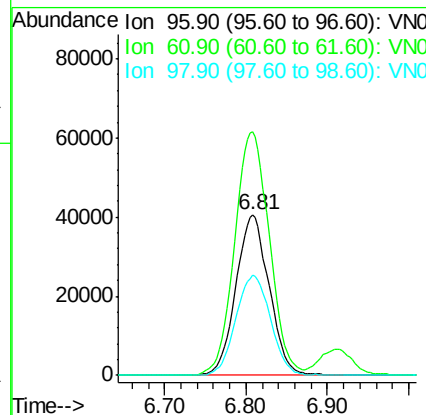
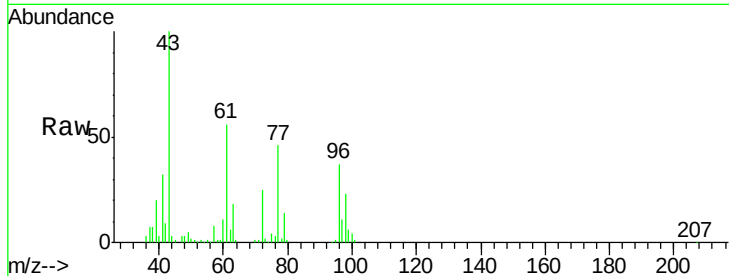
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	115097
Ion Ratio	Lower	Upper	
96	100		
61	158.1	0.0	318.8
98	64.6	0.0	129.8

Manual Integrations
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9/30/2019 10:18:32 AM



#28

Bromochloromethane

Concen: 20.931 ug/l

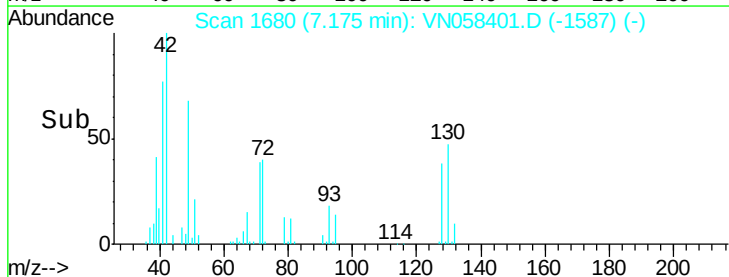
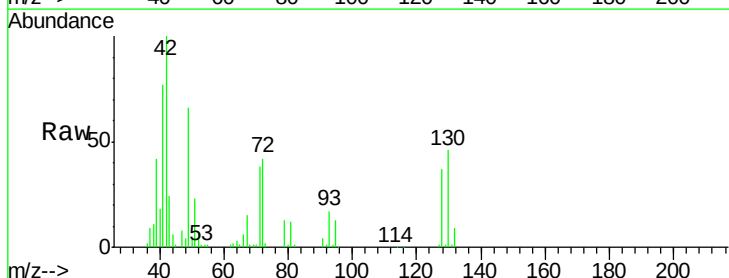
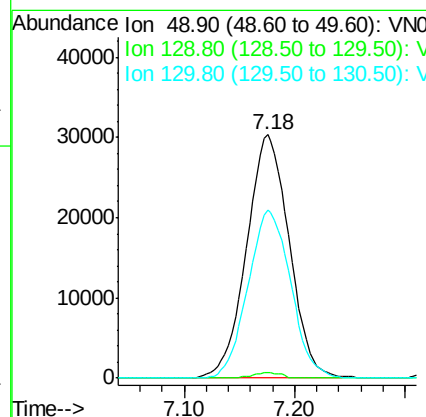
RT: 7.18 min Scan# 1680

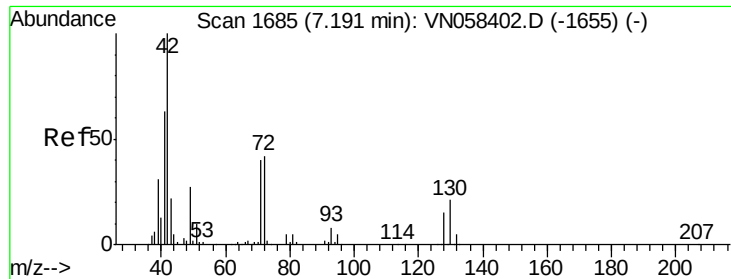
Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	49	Resp:	81427
Ion Ratio	Lower	Upper	
49	100		
129	1.5	0.0	3.4
130	69.1	56.3	84.5





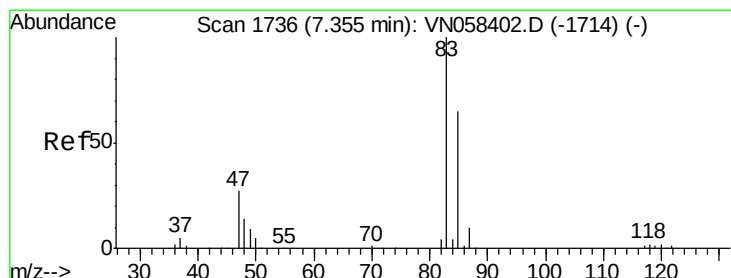
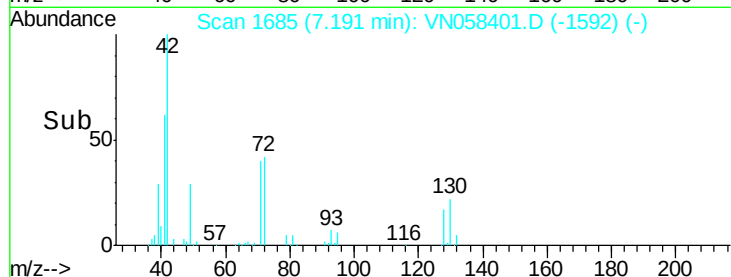
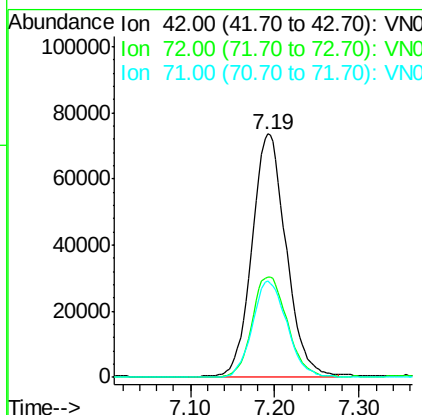
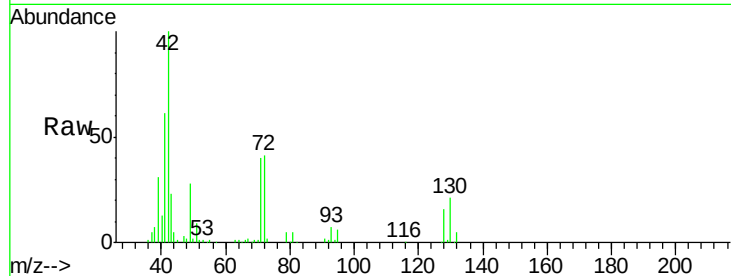
#29
Tetrahydrofuran
Concen: 109.786 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.9	33.7	50.5
71	40.3	31.8	47.6

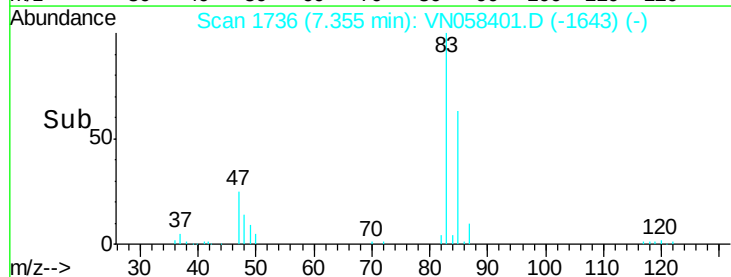
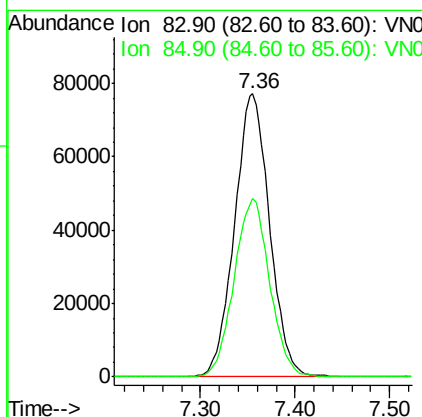
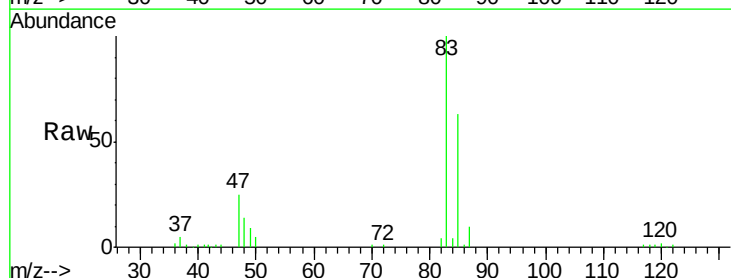
Manual Integrations
APPROVED

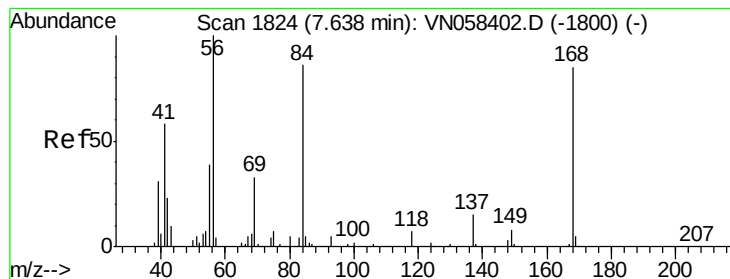
MMDadoda
9/30/2019 10:18:32 AM



#30
Chloroform
Concen: 21.775 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.0	78.0





#31

Cyclohexane

Concen: 27.496 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

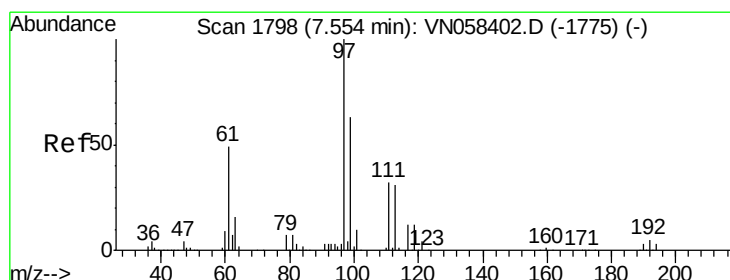
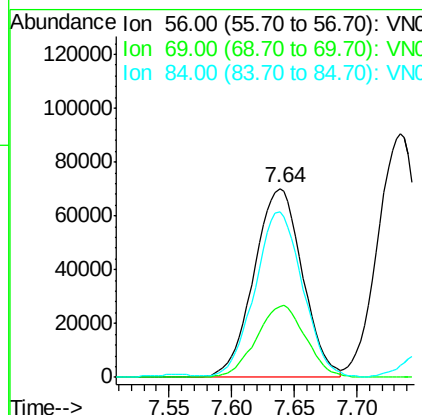
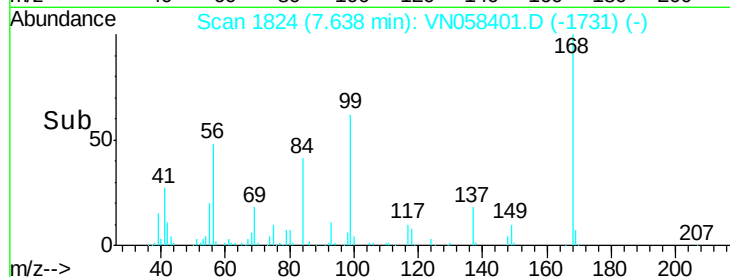
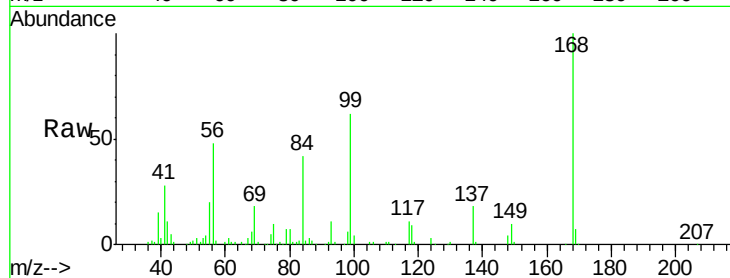
ClientSampleID :

VSTDIC020

Tot Ion:	56	Resp:	189013
Ion	Ratio	Lower	Upper
56	100		
69	37.2	26.2	39.4
84	86.5	67.6	101.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 23.105 ug/l

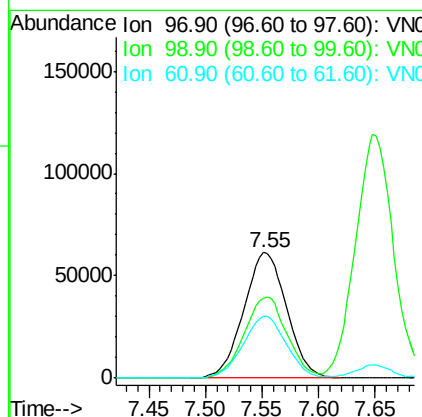
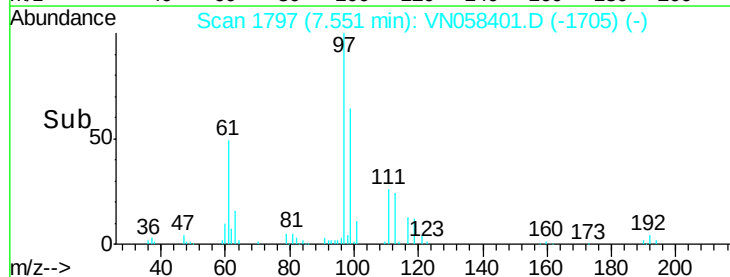
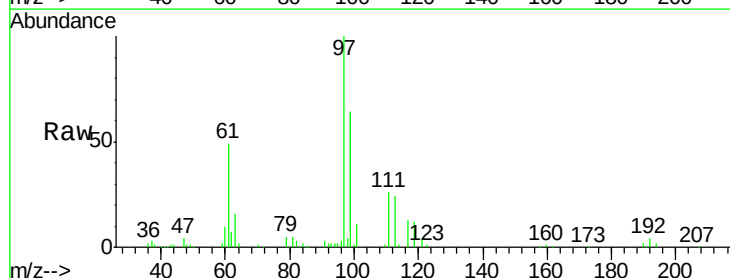
RT: 7.55 min Scan# 1797

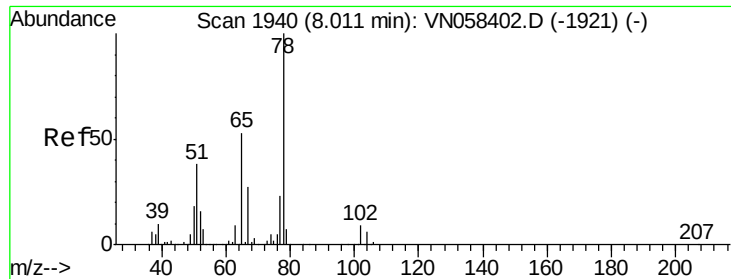
Delta R.T. -0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	97	Resp:	162290
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.1	76.7
61	49.8	39.2	58.8





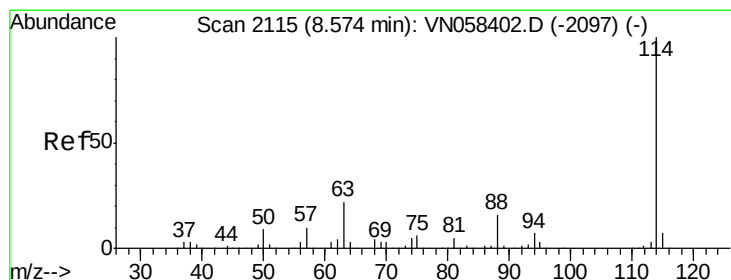
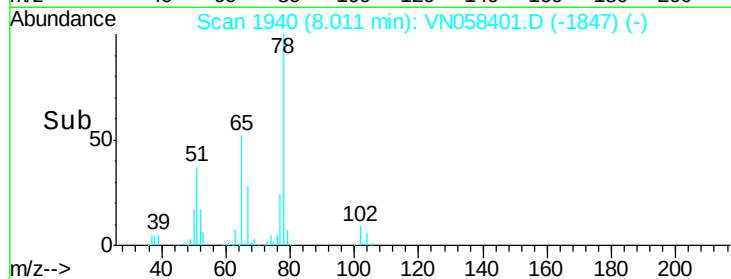
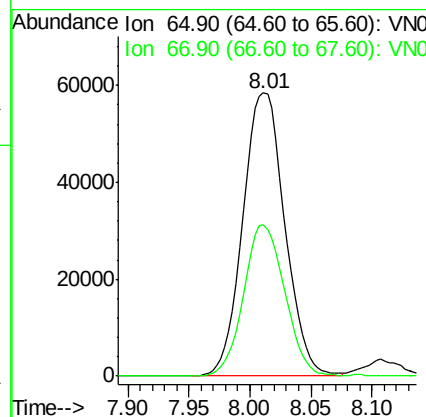
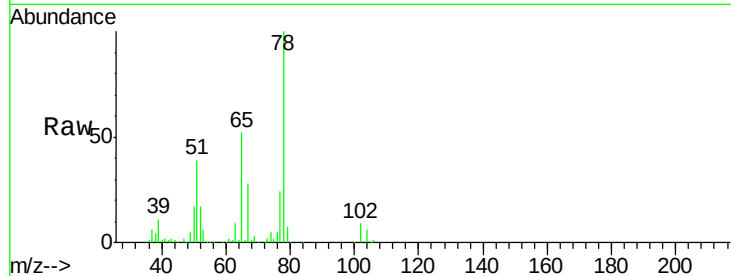
#33
 1,2-Dichloroethane-d4
 Concen: 21.539 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	139300		
67	52.3	0.0	102.4	

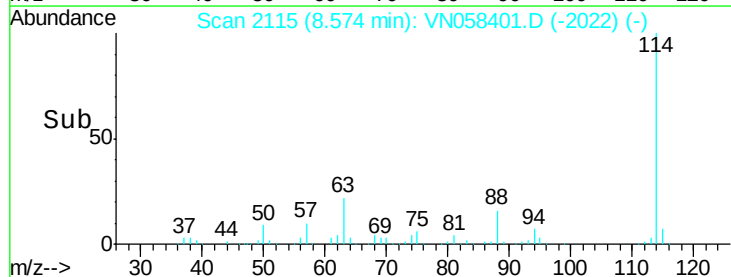
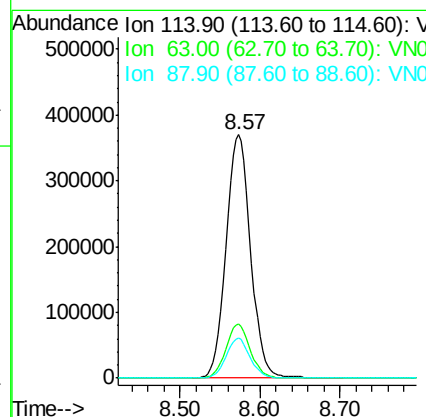
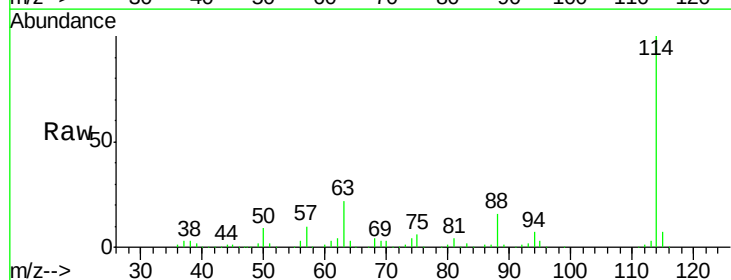
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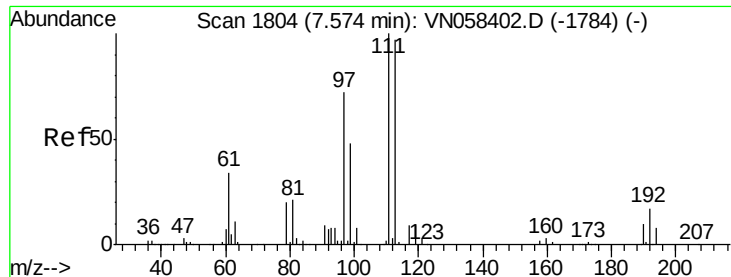
MMDadoda
 9/30/2019 10:18:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	779574		
63	22.3	0.0	45.0	
88	16.5	0.0	32.2	





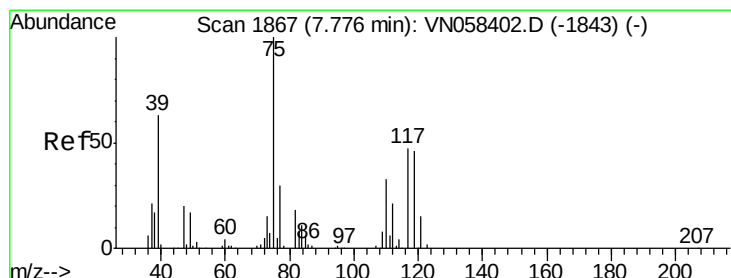
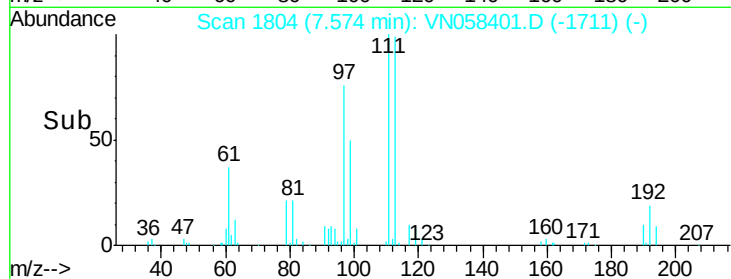
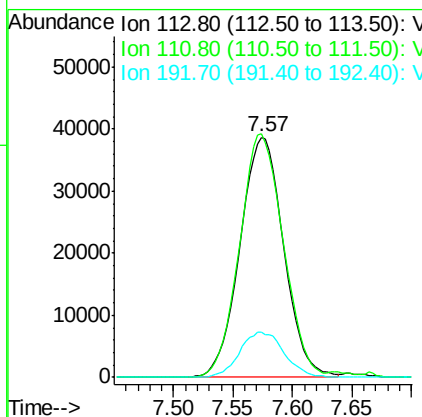
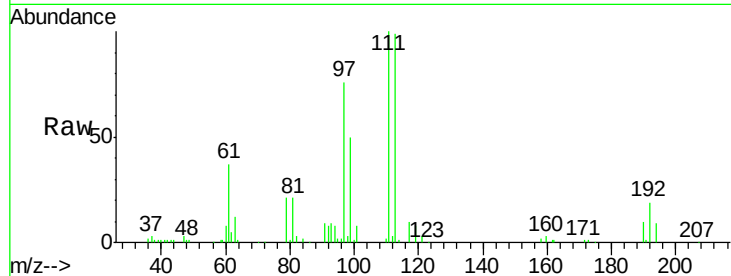
#35
 Dibromofluoromethane
 Concen: 20.741 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	98391		
111	101.1	83.4	125.2	
192	19.0	14.9	22.3	

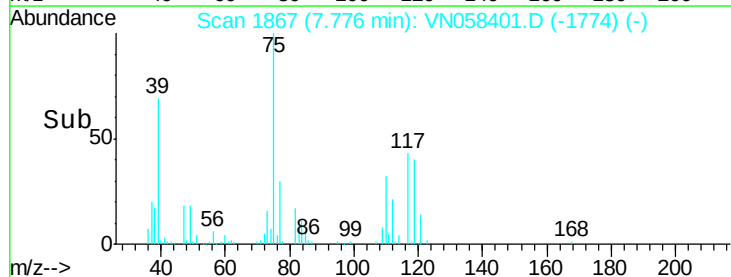
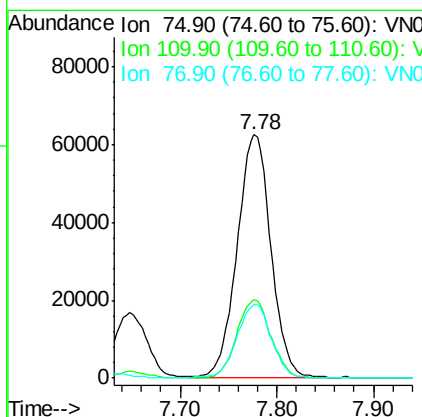
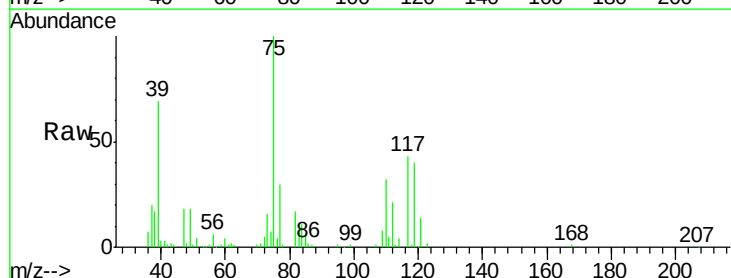
Manual Integrations
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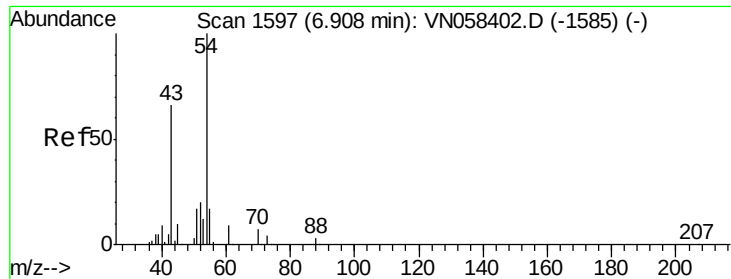
MMDadoda
 9/30/2019 10:18:32 AM



#36
 1,1-Dichloropropene
 Concen: 25.076 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	151063		
110	32.7	16.4	49.2	
77	31.1	24.3	36.5	





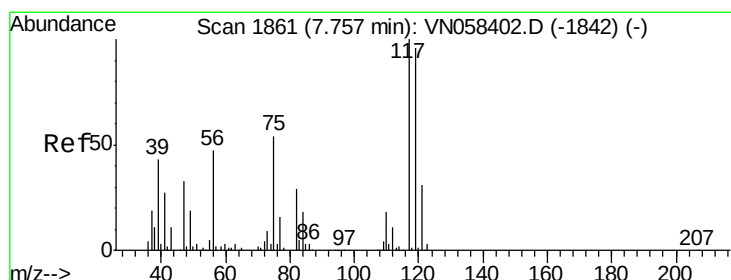
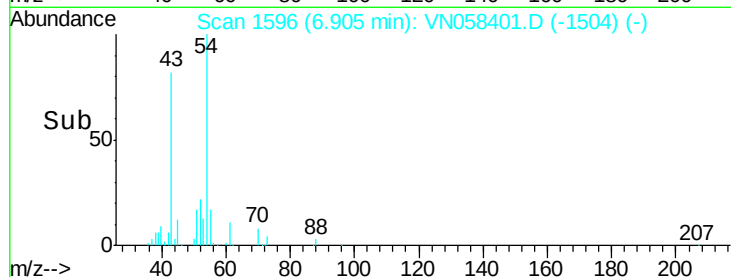
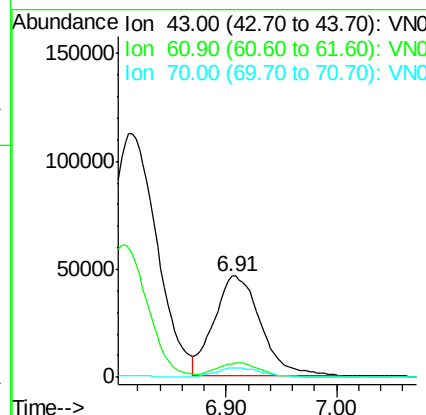
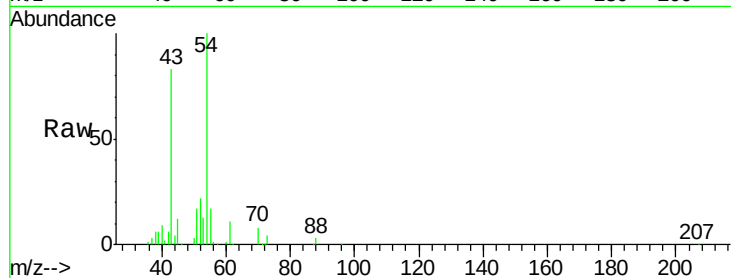
#37
Ethyl Acetate
Concen: 22.792 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.5	15.7
70	9.7	7.8	11.6

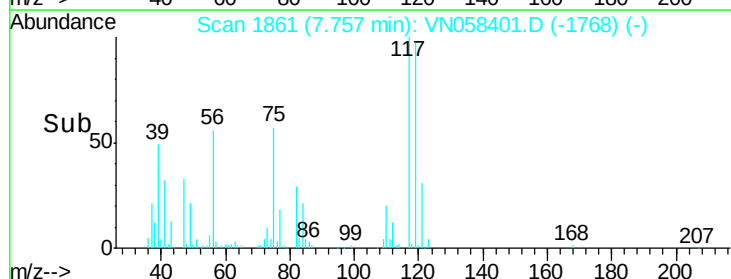
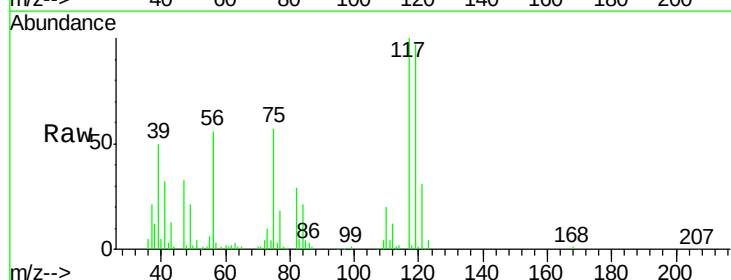
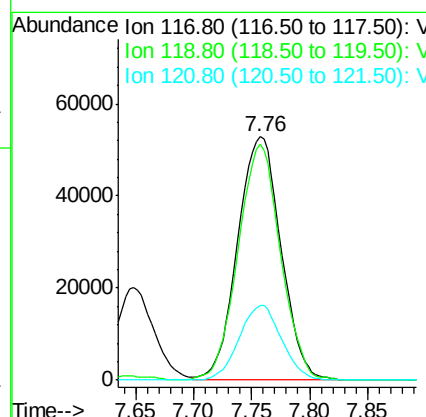
Manual Integrations
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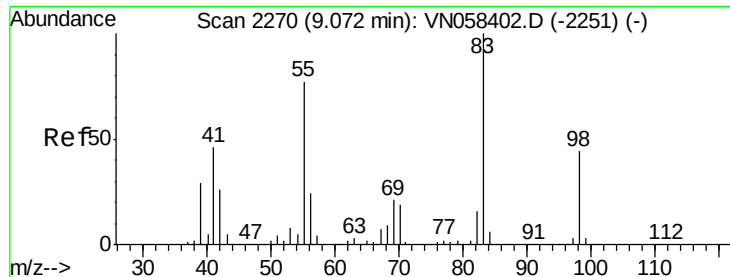
MMDadoda
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#38
Carbon Tetrachloride
Concen: 23.277 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.6	115.0
121	30.5	24.7	37.1





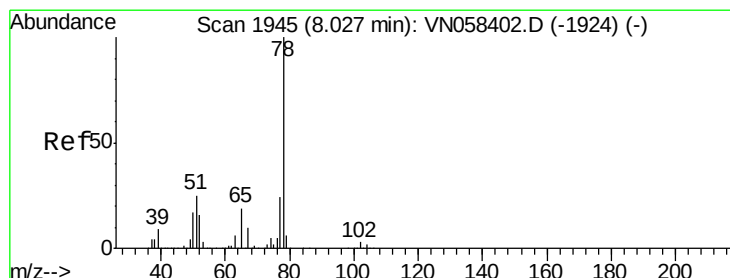
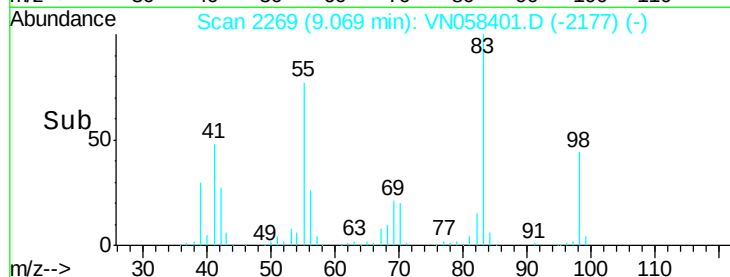
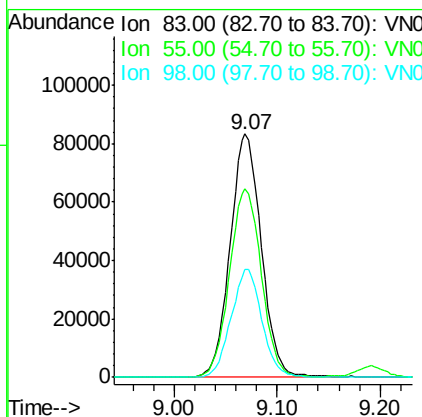
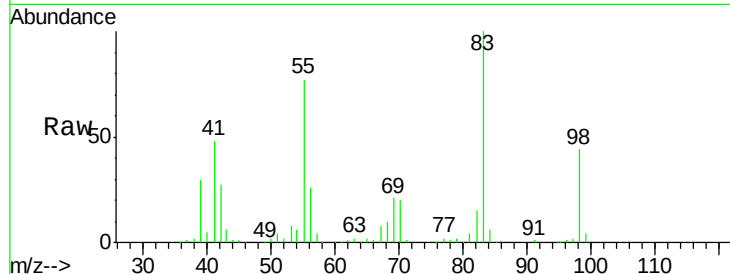
#39
Methylvlcyclohexane
Concen: 26.968 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	83	Resp	175505
Ion Ratio	100	Lower	Upper
83	100		
55	77.3	61.8	92.6
98	44.2	35.4	53.0

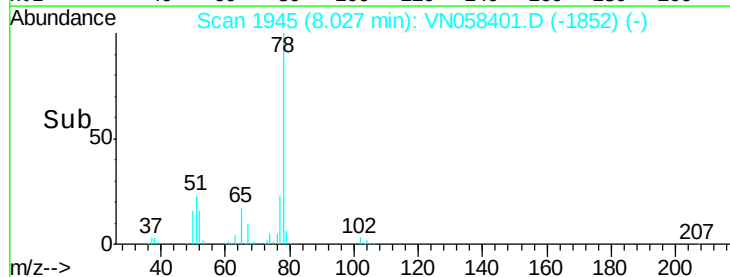
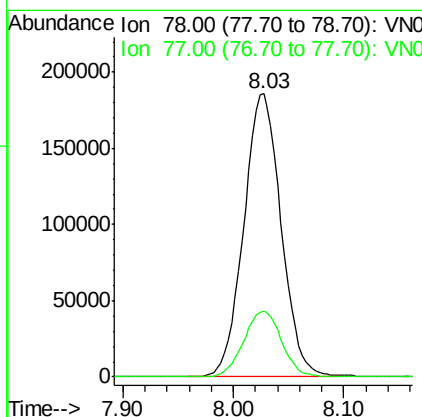
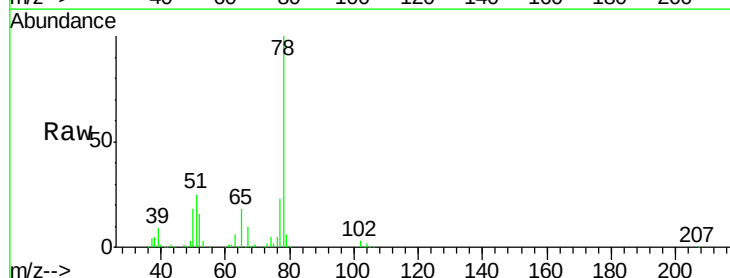
Manual Integrations
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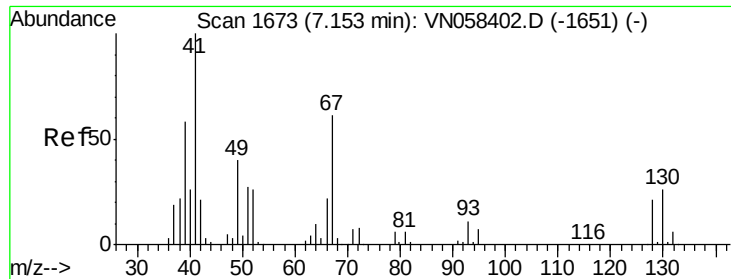
MMDadoda
9/30/2019 10:18:32 AM



#40
Benzene
Concen: 24.090 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	78	Resp	435274
Ion Ratio	100	Lower	Upper
78	100		
77	23.2	18.9	28.3





#41

Methacrylonitrile

Concen: 24.539 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 69249

Ion Ratio Lower Upper

41 100

39 56.9 50.2 75.4

67 75.8 70.2 105.4

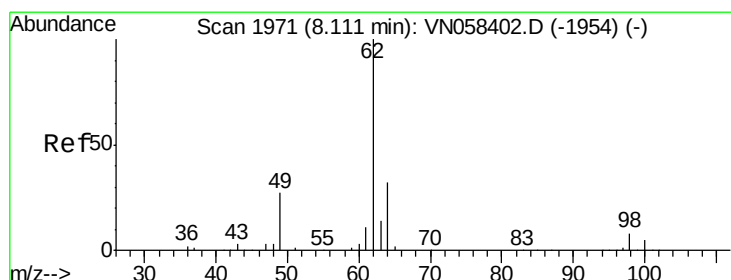
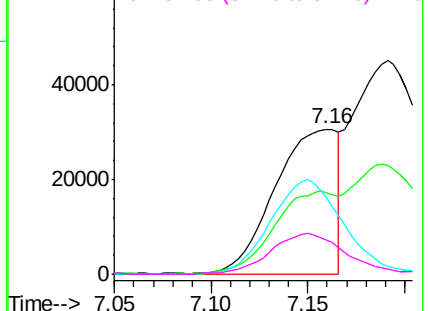
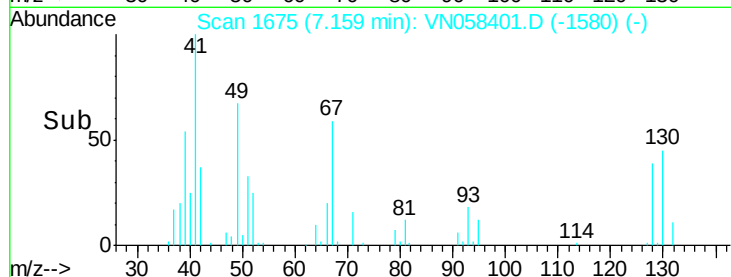
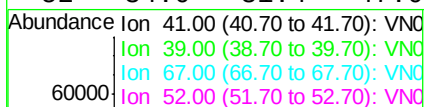
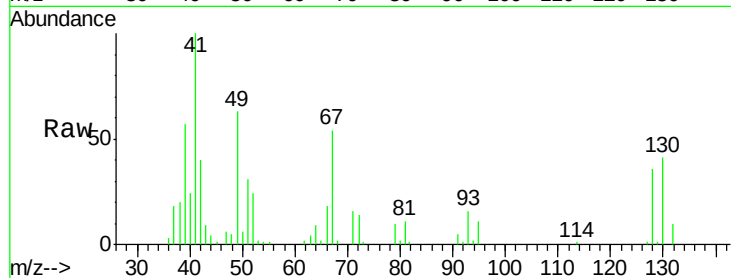
52 34.0 31.4 47.0

Manual Integrations

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MMDadoda

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#42

1,2-Dichloroethane

Concen: 22.797 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VN058401.D

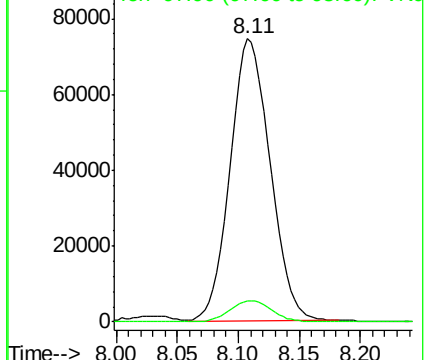
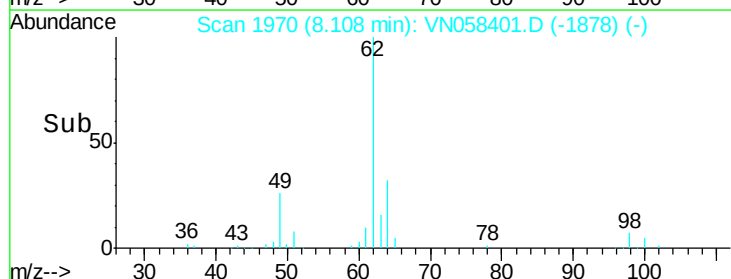
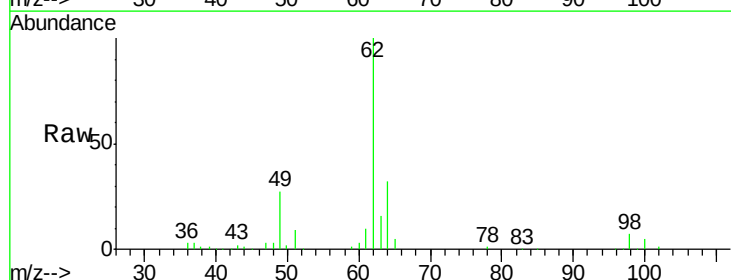
Acq: 27 Sep 2019 11:55

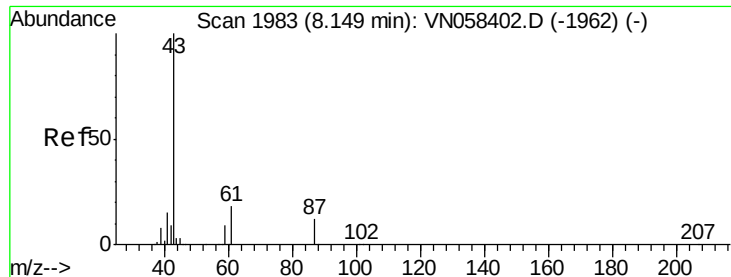
Tgt Ion: 62 Resp: 169625

Ion Ratio Lower Upper

62 100

98 7.8 0.0 15.6





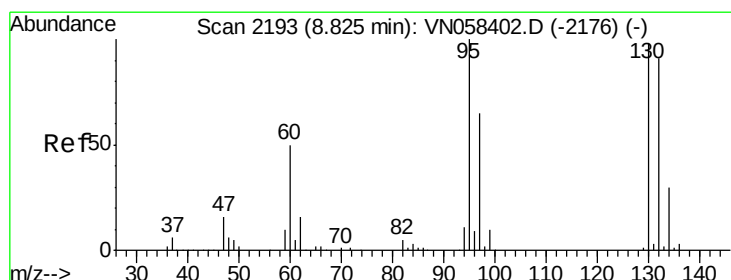
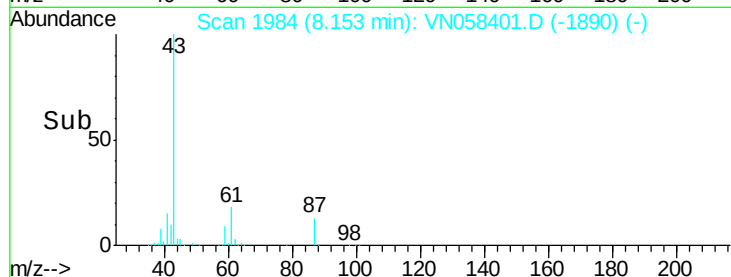
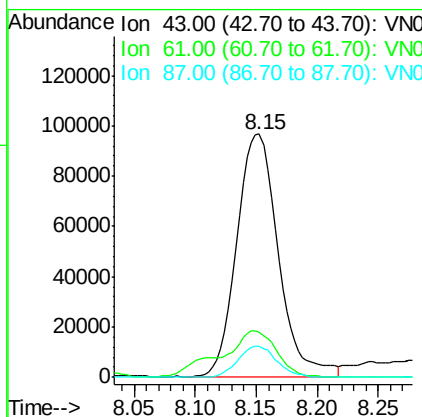
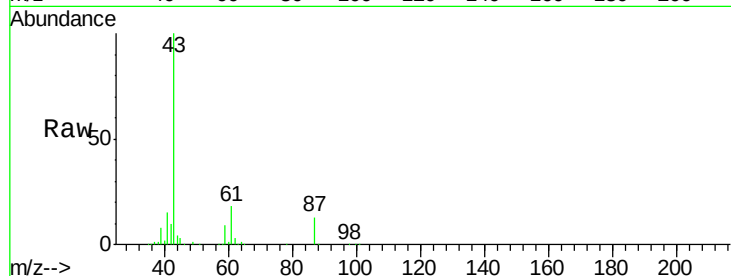
#43
Isopropyl Acetate
Concen: 20.430 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.5	14.8	22.2
87	12.1	9.7	14.5

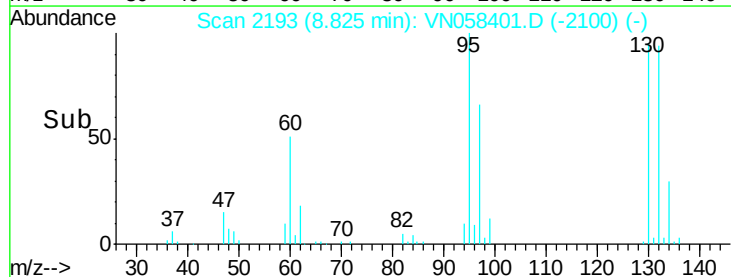
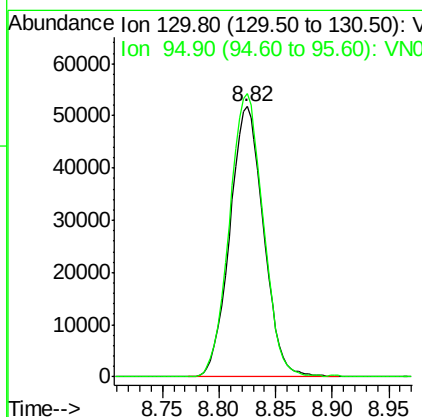
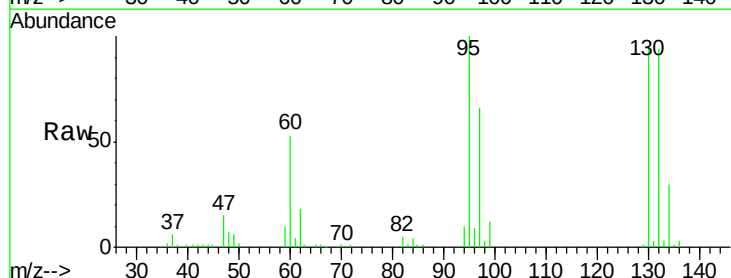
Manual Integrations
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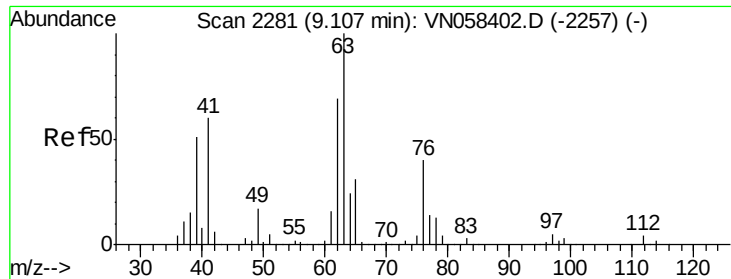
MMDadoda
9/30/2019 10:18:32 AM



#44
Trichloroethene
Concen: 24.253 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.7	0.0	204.2





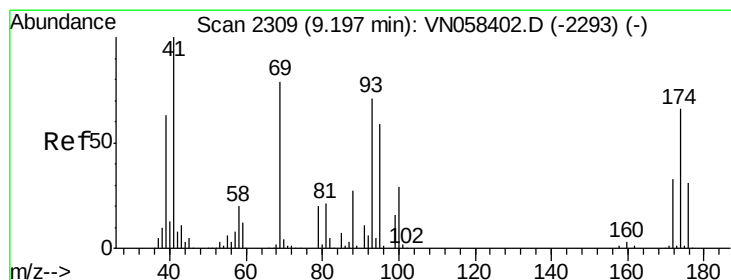
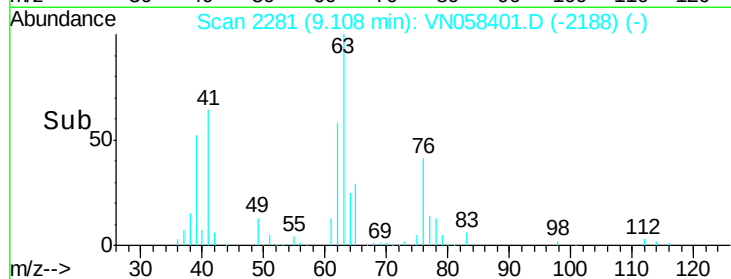
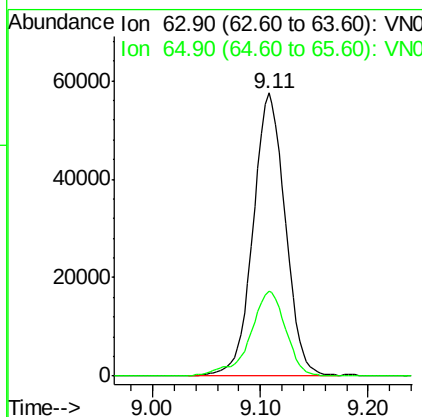
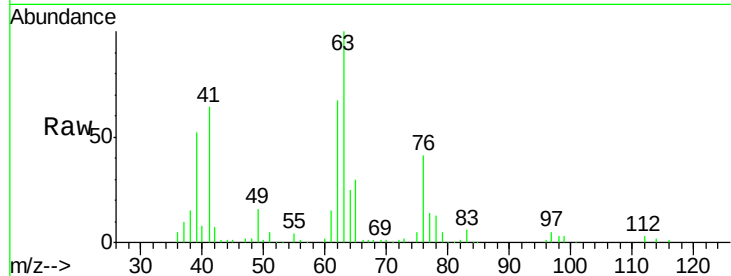
#45
 1,2-Dichloropropane
 Concen: 22.638 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 119042
 Ion Ratio Lower Upper
 63 100
 65 30.2 25.0 37.4

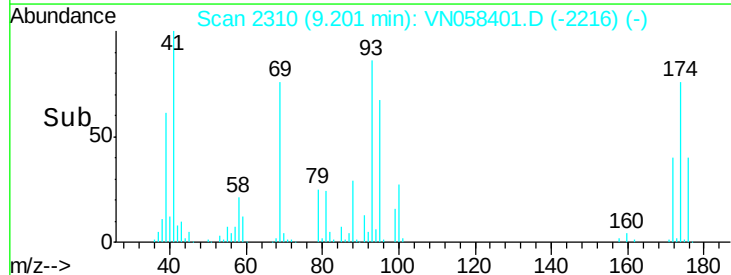
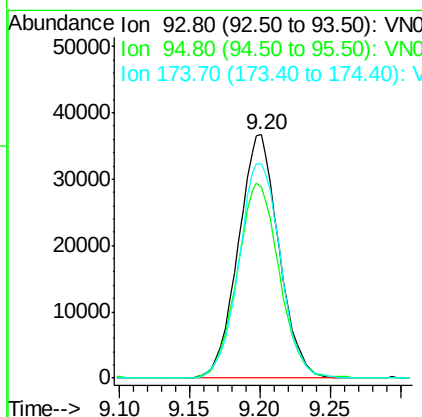
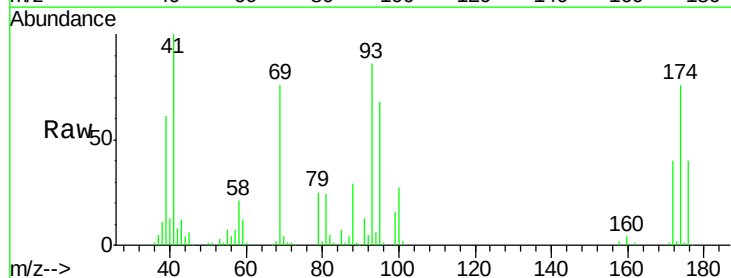
Manual Integrations
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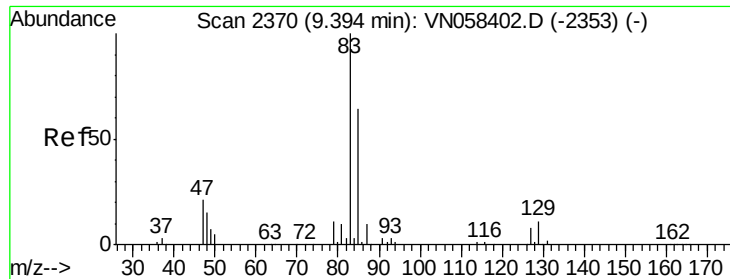
MMDadoda
 9/30/2019 10:18:32 AM



#46
 Dibromomethane
 Concen: 22.847 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion: 93 Resp: 73642
 Ion Ratio Lower Upper
 93 100
 95 83.2 67.0 100.4
 174 90.5 74.2 111.2





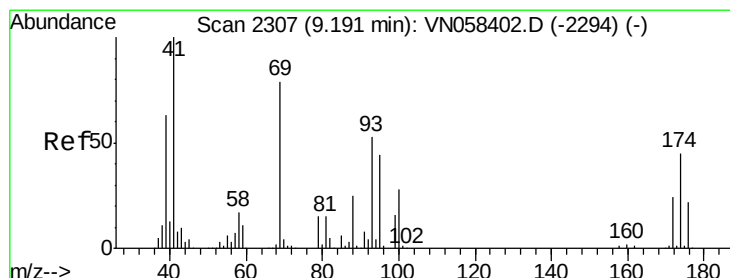
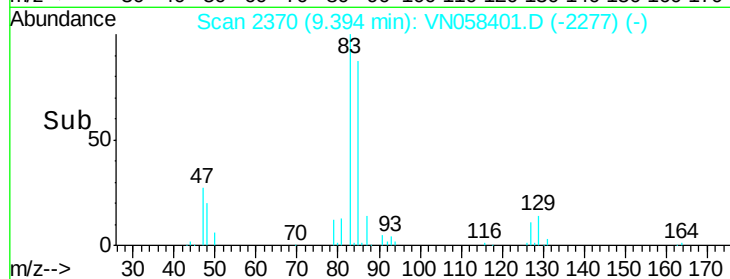
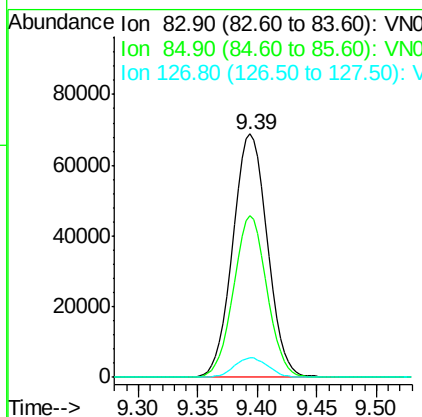
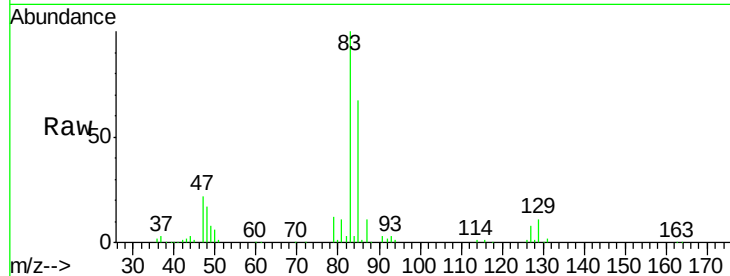
#47
Bromodichloromethane
Concen: 20.977 ug/l
RT: 9.39 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	139173
Ion Ratio	100	Lower	Upper
83	100		
85	66.6	51.2	76.8
127	8.2	6.3	9.5

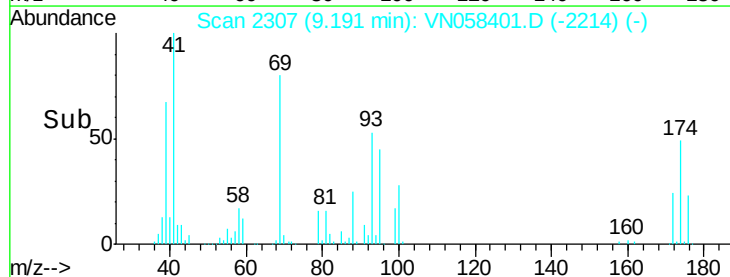
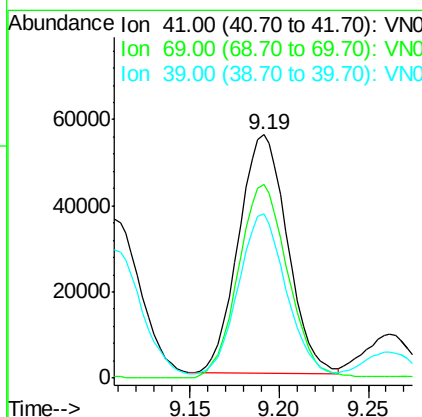
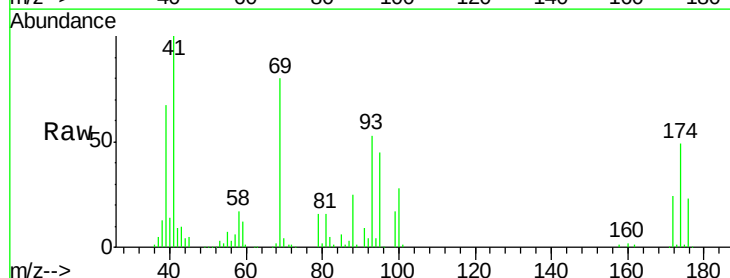
Manual Integrations
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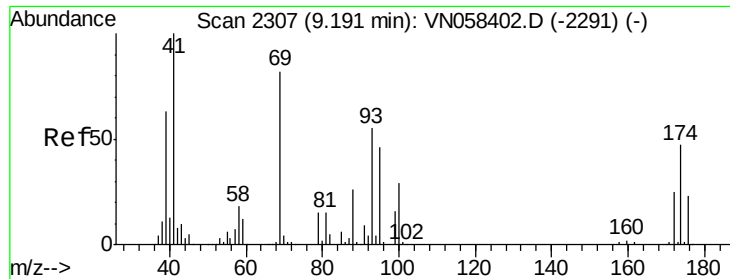
MMDadoda
9/30/2019 10:18:32 AM



#48
Methyl methacrylate
Concen: 21.140 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	41	Resp	106356
Ion Ratio	100	Lower	Upper
41	100		
69	82.4	64.7	97.1
39	68.1	52.9	79.3





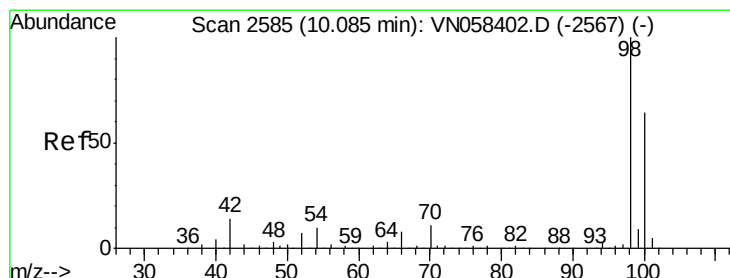
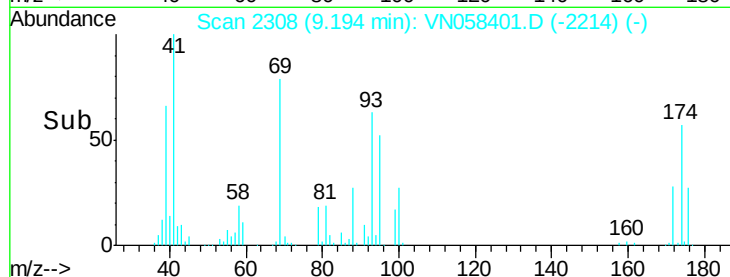
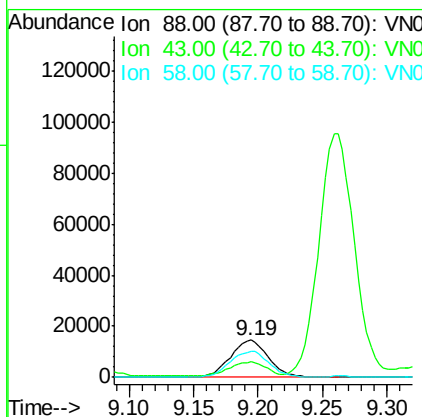
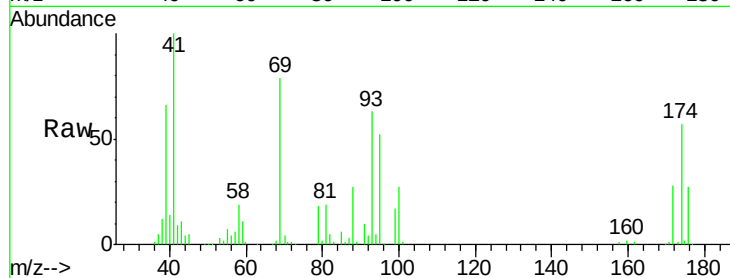
#49
1,4-Dioxane
Concen: 373.742 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	29832
Ion	Ratio	Lower	Upper
88	100		
43	37.1	31.1	46.7
58	72.7	58.1	87.1

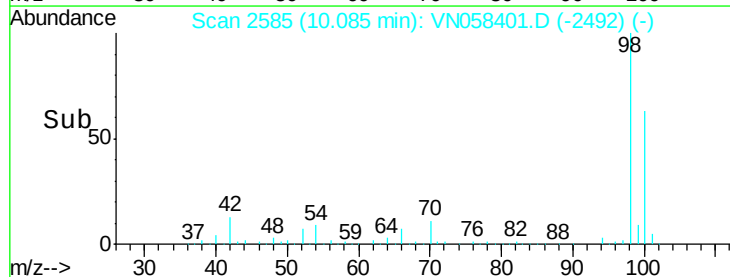
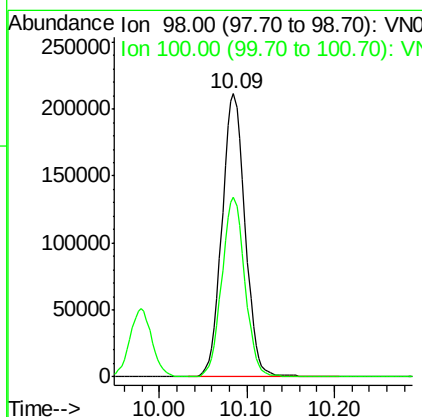
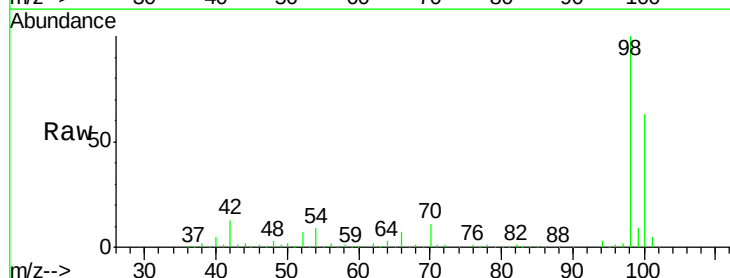
Manual Integrations
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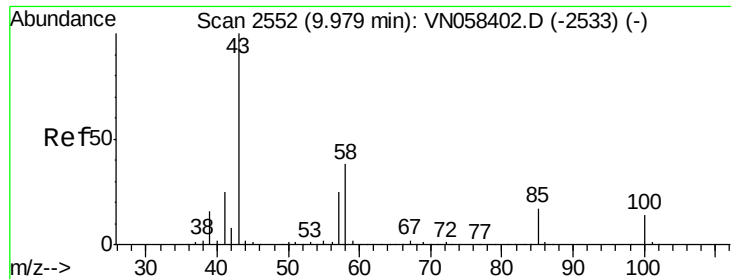
MMDadoda
9/30/2019 10:18:32 AM



#50
Toluene-d8
Concen: 21.073 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	98	Resp	388489
Ion	Ratio	Lower	Upper
98	100		
100	62.9	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 113.688 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 662656

Ion Ratio Lower Upper

43 100

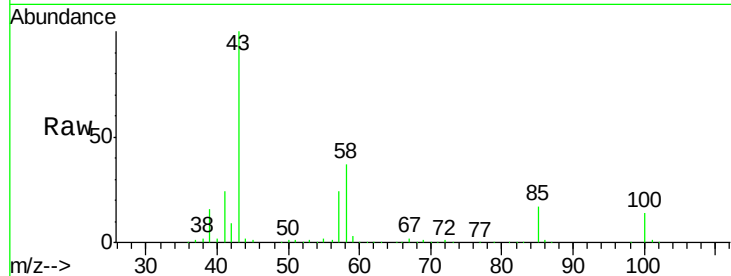
58 36.8 30.2 45.2

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

400000

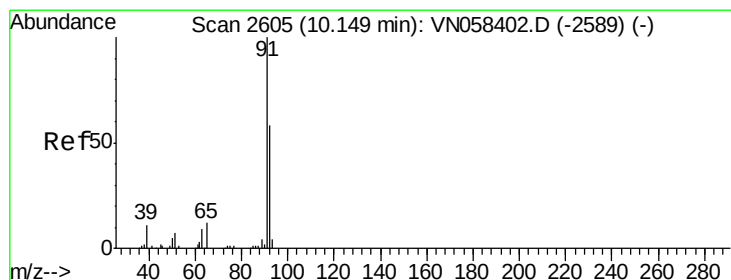
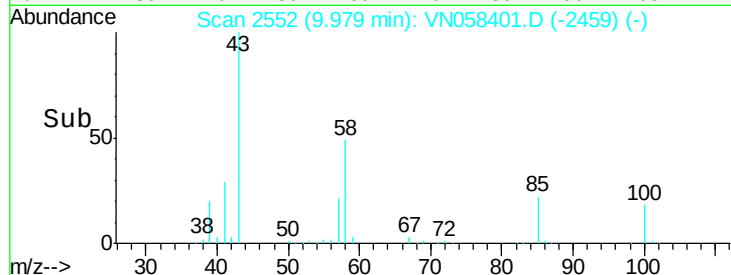
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 24.075 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058401.D

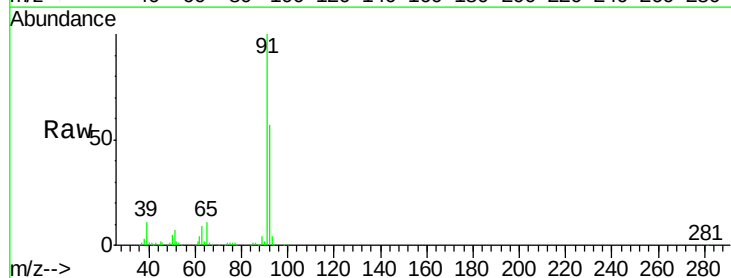
Acq: 27 Sep 2019 11:55

Tgt Ion: 92 Resp: 270697

Ion Ratio Lower Upper

92 100

91 175.4 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.15

300000

250000

200000

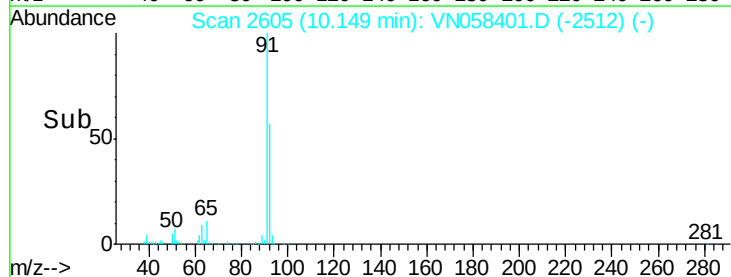
150000

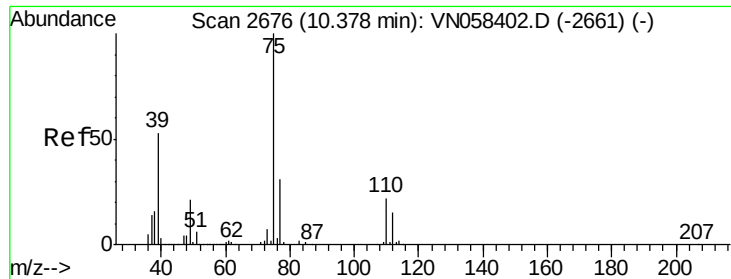
100000

50000

0

Time-->





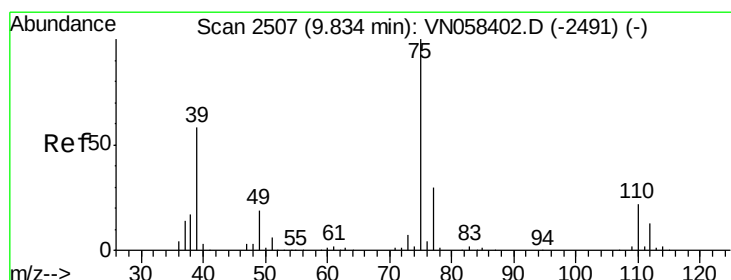
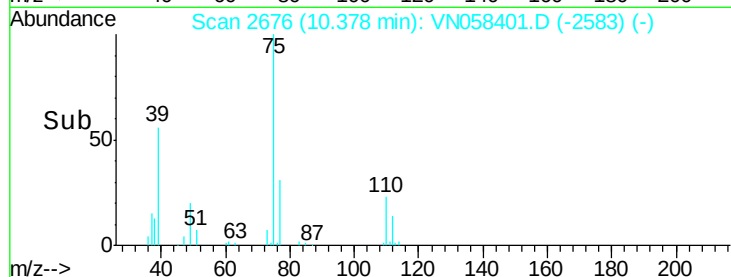
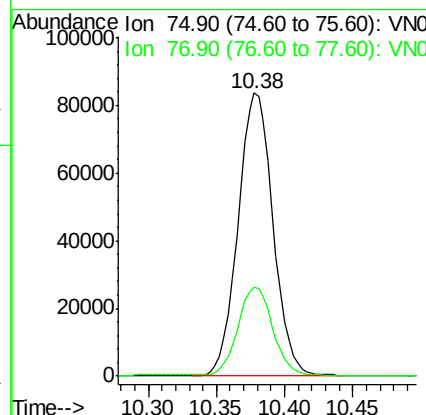
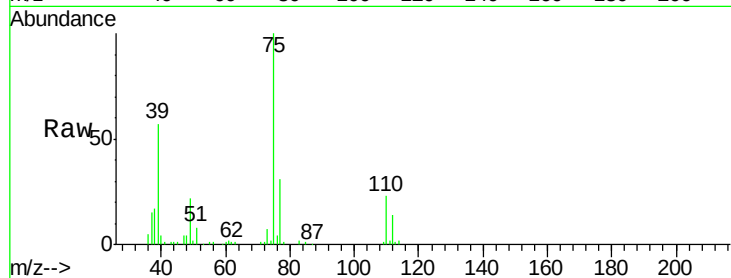
#53
t-1,3-Dichloropropene
Concen: 21.621 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 149029
Ion Ratio Lower Upper
75 100
77 31.1 25.2 37.8

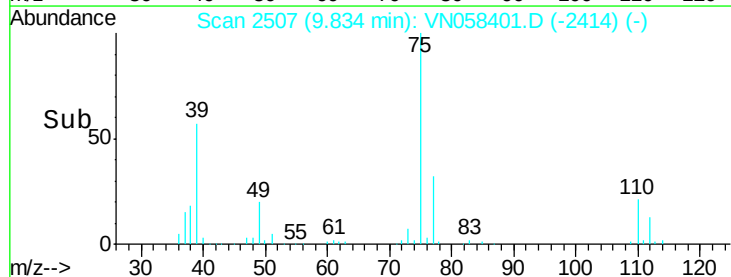
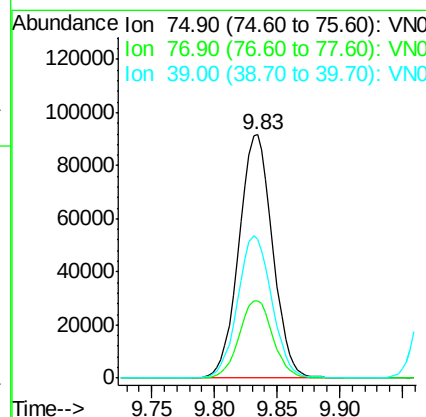
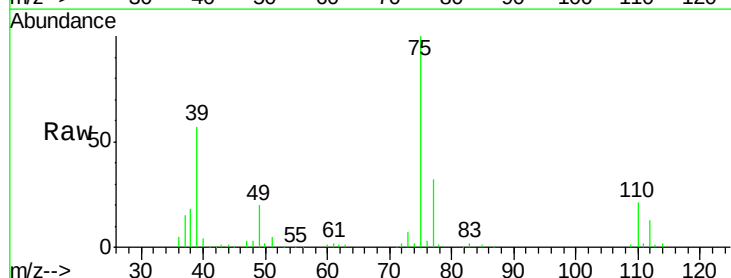
Manual Integrations
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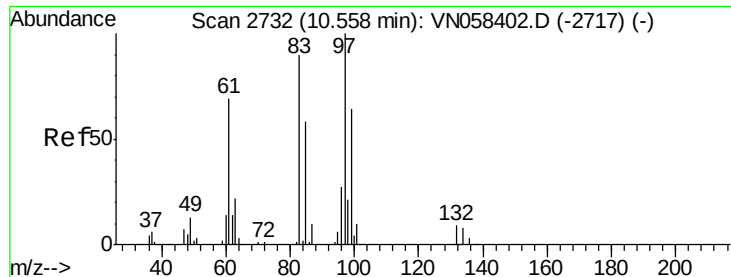
MMDadoda
9/30/2019 10:18:32 AM



#54
cis-1,3-Dichloropropene
Concen: 22.455 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion: 75 Resp: 171350
Ion Ratio Lower Upper
75 100
77 31.8 24.2 36.4
39 57.0 46.4 69.6





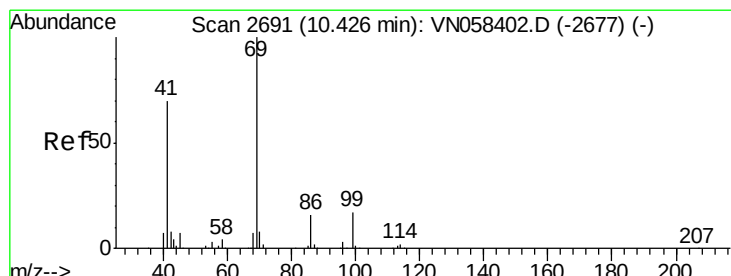
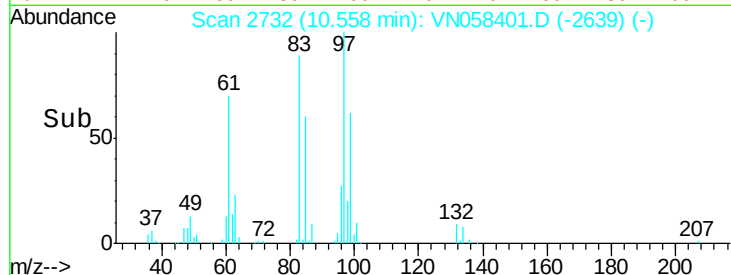
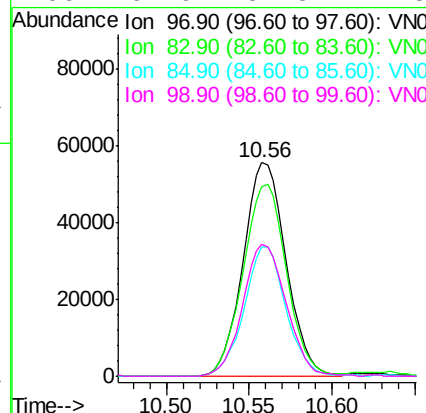
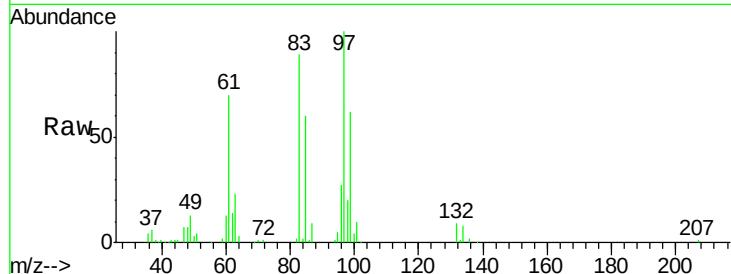
#55
 1,1,2-Trichloroethane
 Concen: 20.768 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion:	97	Resp:	100140
Ion	Ratio	Lower	Upper
97	100		
83	88.5	71.8	107.6
85	60.5	46.6	69.8
99	61.9	51.5	77.3

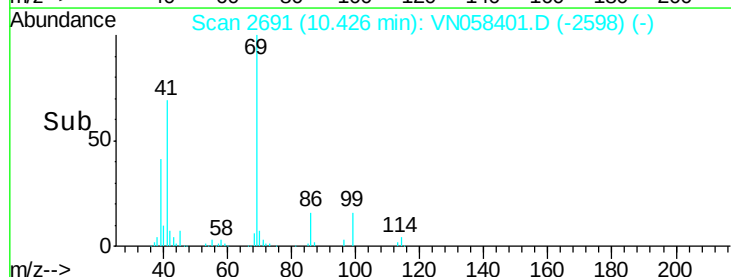
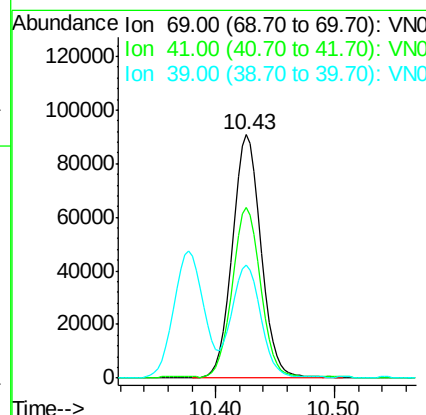
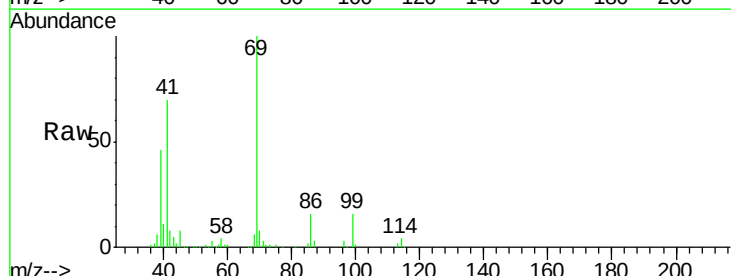
Manual Integrations
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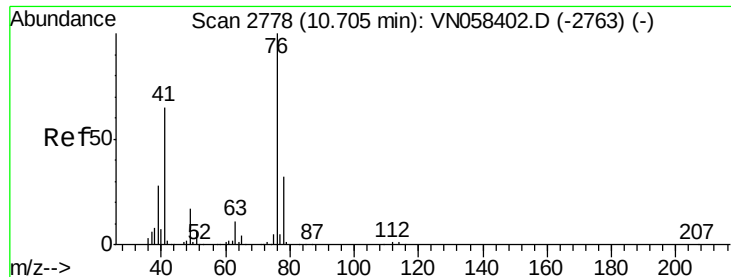
MMDadoda
 9/30/2019 10:18:32 AM



#56
 Ethyl methacrylate
 Concen: 21.660 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion:	69	Resp:	151737
Ion	Ratio	Lower	Upper
69	100		
41	68.7	56.3	84.5
39	46.7	35.8	53.6





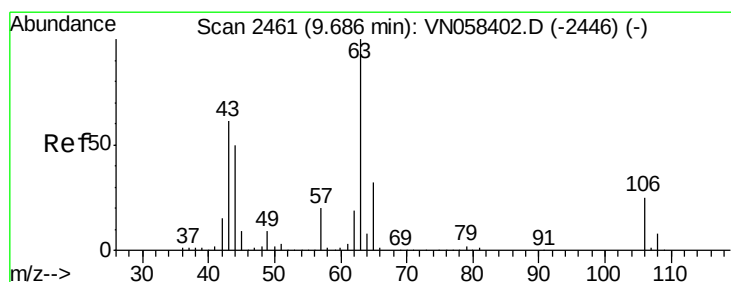
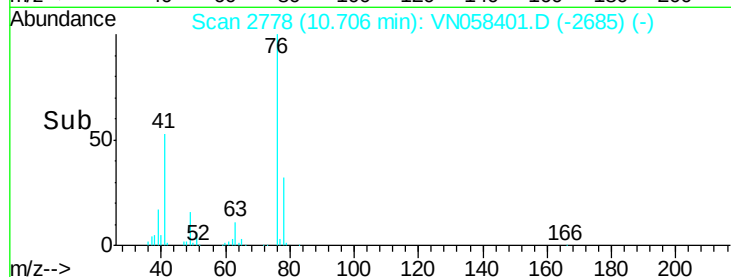
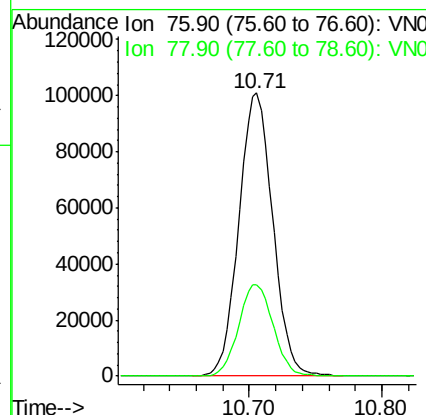
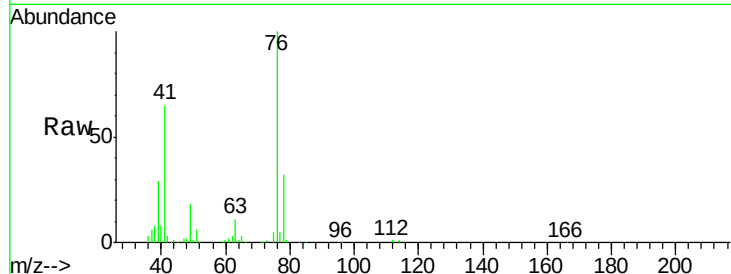
#57
 1,3-Dichloropropane
 Concen: 21.402 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion: 76 Resp: 178834
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.7 38.5

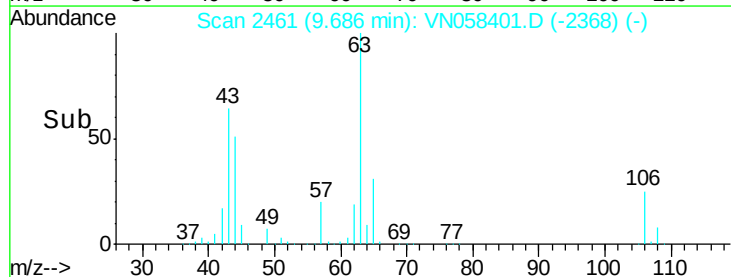
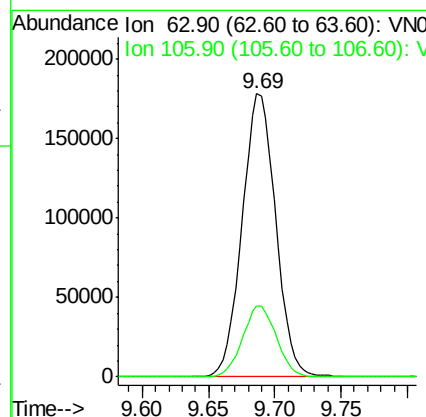
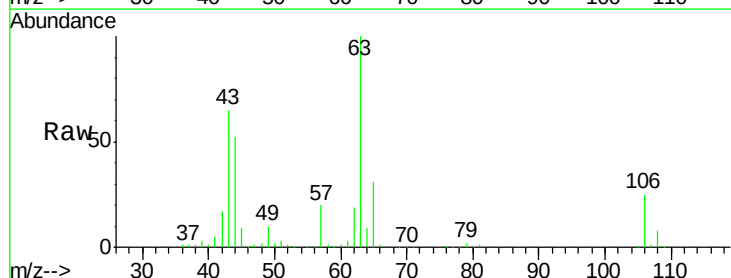
Manual Integrations
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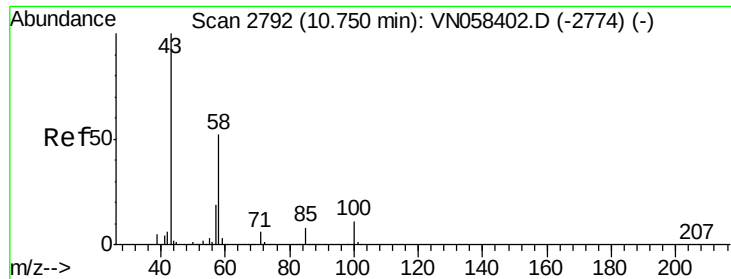
MMDadoda
 9/30/2019 10:18:32 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 97.642 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion: 63 Resp: 313079
 Ion Ratio Lower Upper
 63 100
 106 25.3 20.3 30.5





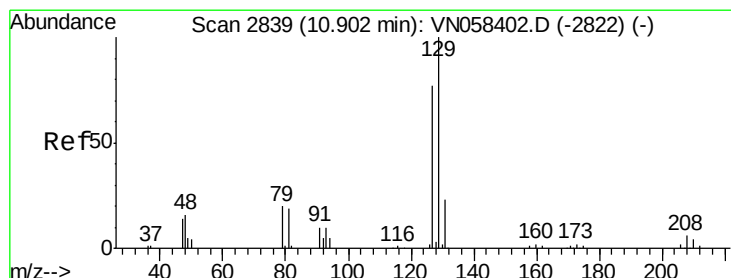
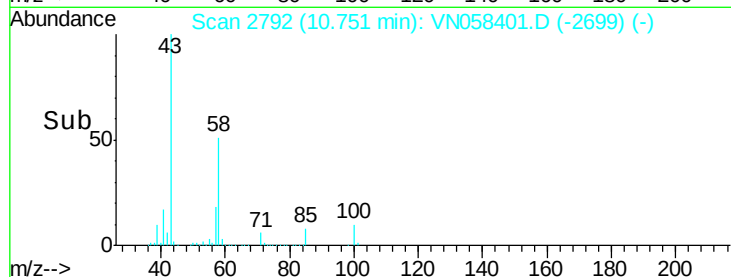
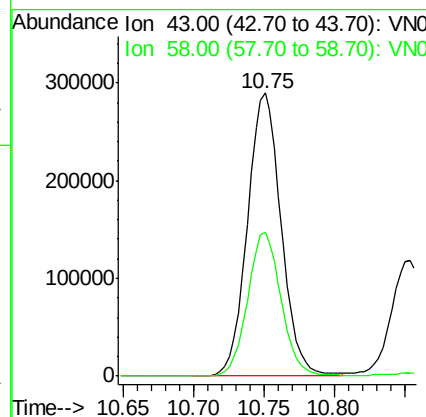
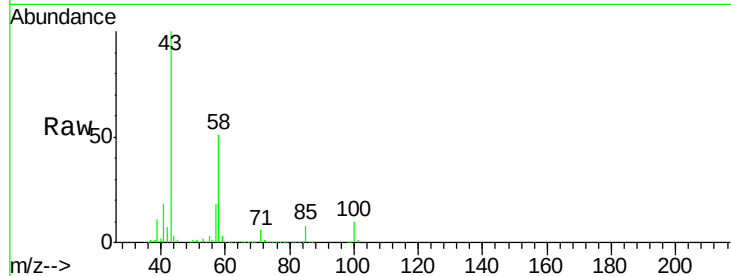
#59
2-Hexanone
Concen: 112.089 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	484026
Ion Ratio	100	Lower	Upper
43	100		
58	50.5	25.8	77.3

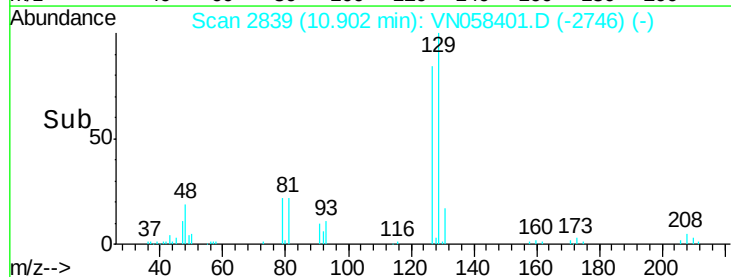
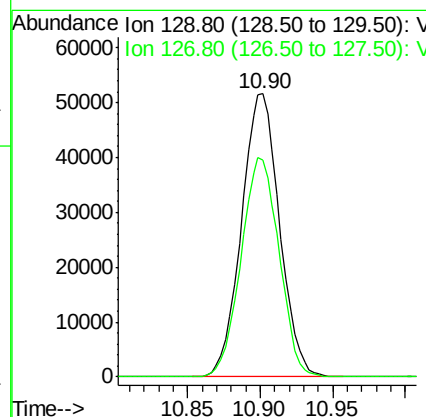
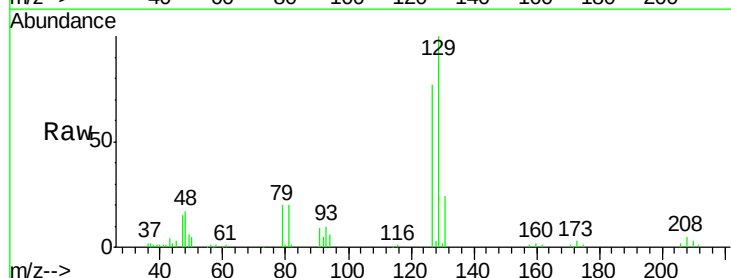
Manual Integrations
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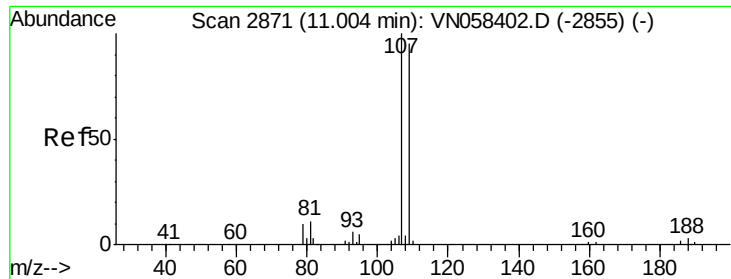
MMDadoda
9/30/2019 10:18:32 AM



#60
Dibromochloromethane
Concen: 20.239 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	129	Resp	93938
Ion Ratio	100	Lower	Upper
129	100		
127	77.5	38.3	114.8





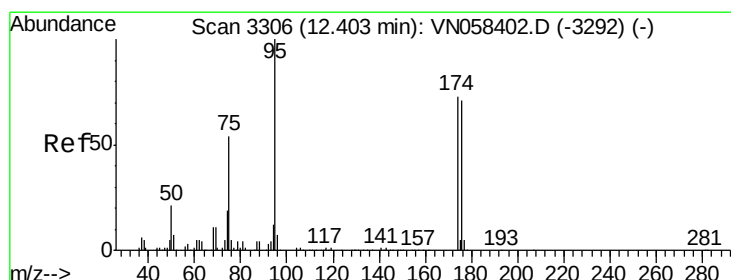
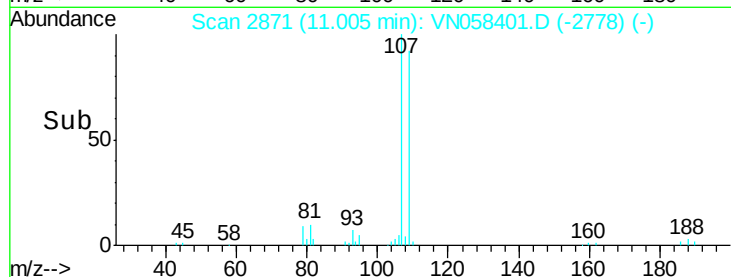
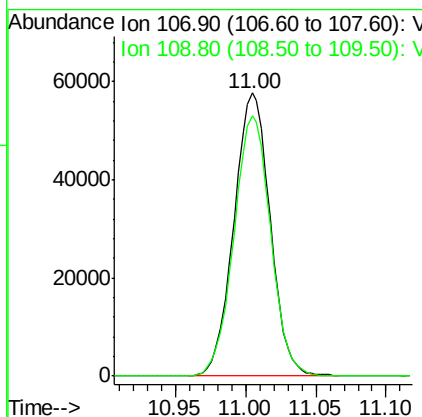
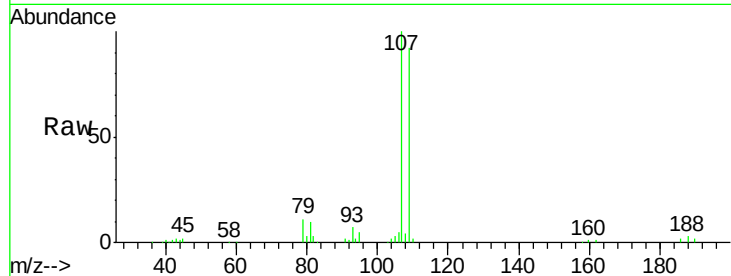
#61
 1,2-Dibromoethane
 Concen: 22.816 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
107	100	104035		
109	93.2	75.3	112.9	

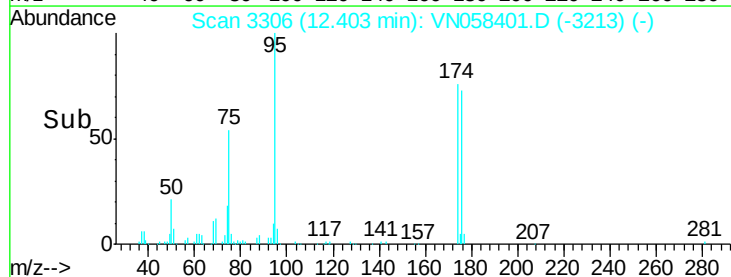
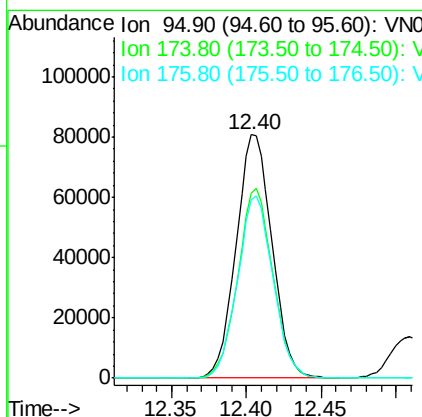
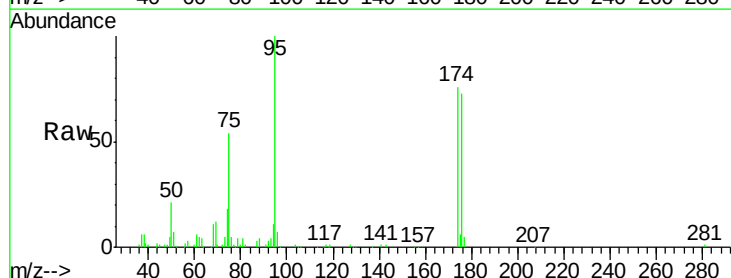
Manual Integrations
 APPROVED

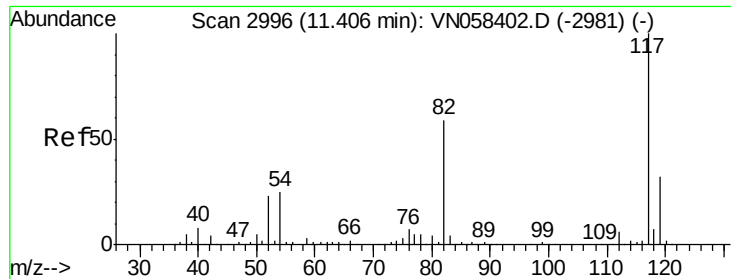
MMDadoda
 9/30/2019 10:18:32 AM



#62
 4-Bromofluorobenzene
 Concen: 19.753 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	134876		
174	76.2	0.0	150.6	
176	73.9	0.0	146.2	





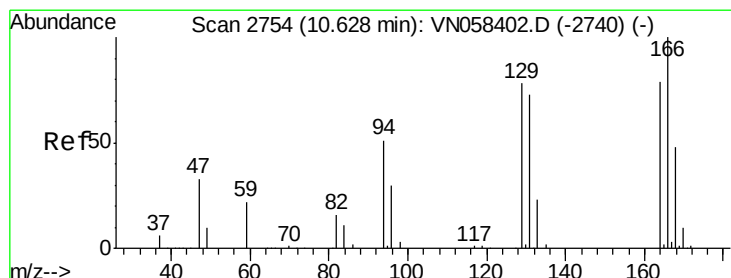
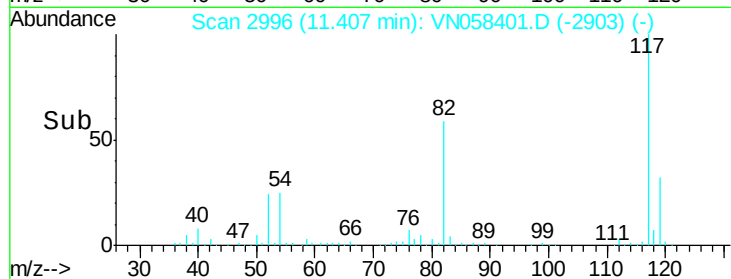
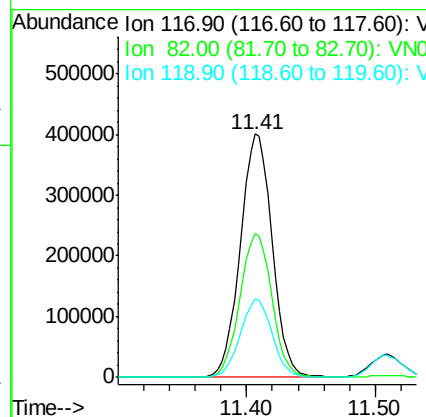
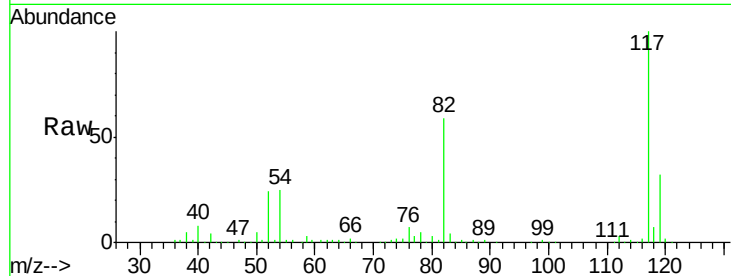
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.4	71.0
119	32.0	25.5	38.3

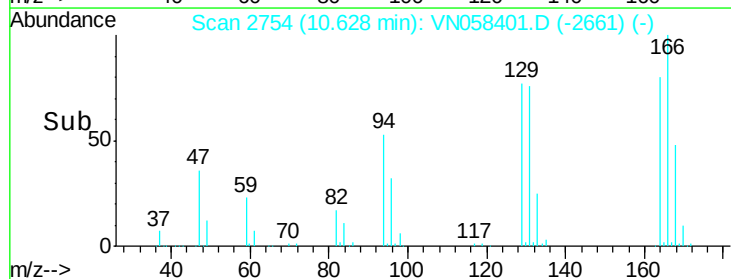
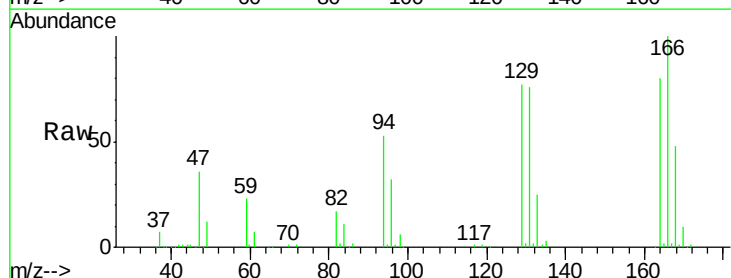
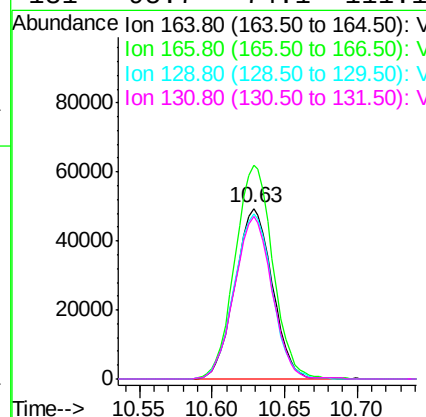
Manual Integrations
APPROVED

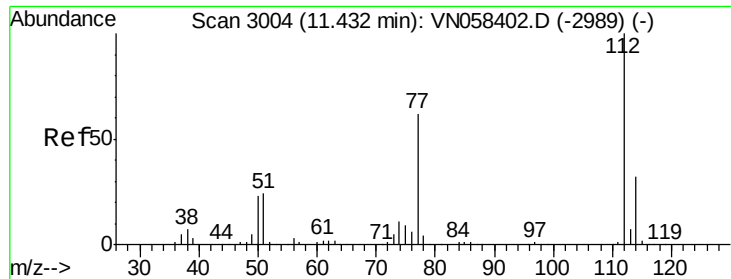
MMDadoda
9/30/2019 10:18:32 AM



#64
Tetrachloroethene
Concen: 24.887 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.3	101.1	151.7
129	96.7	79.2	118.8
131	95.7	74.1	111.1





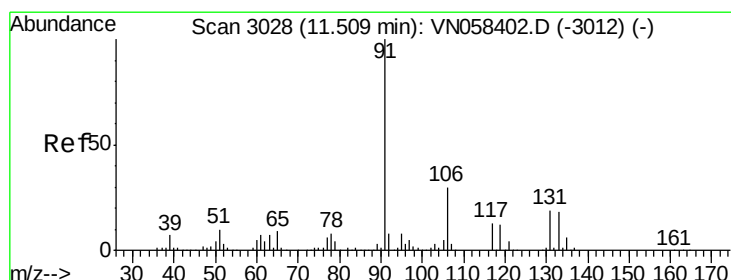
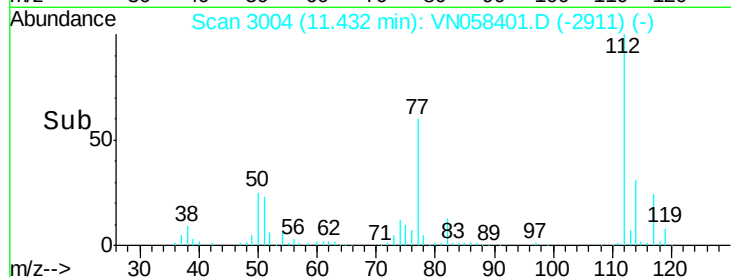
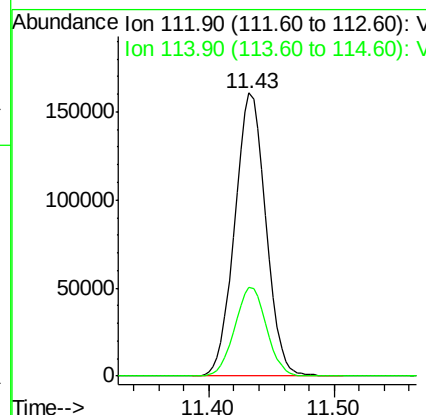
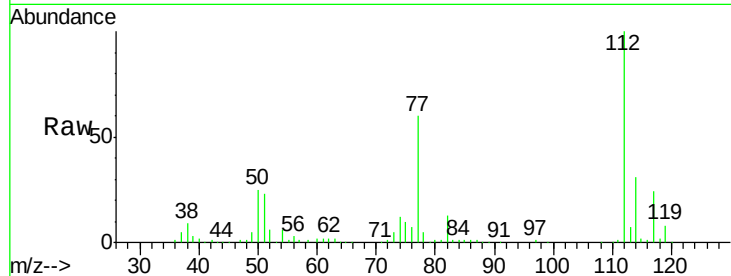
#65
Chlorobenzene
Concen: 22.142 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 276538
Ion Ratio Lower Upper
112 100
114 31.2 25.4 38.2

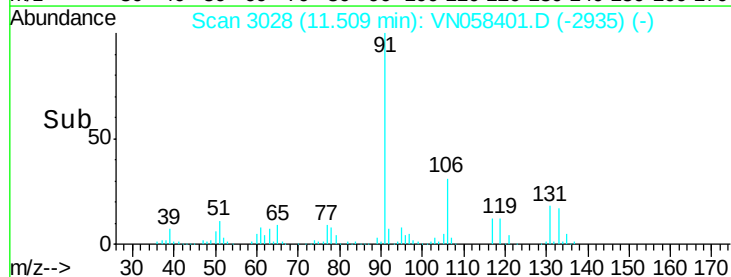
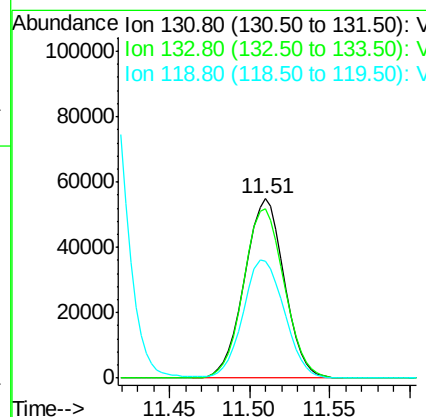
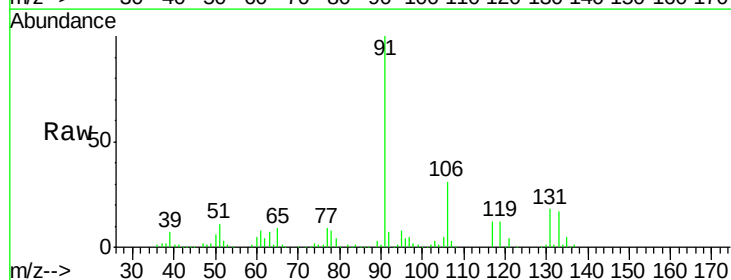
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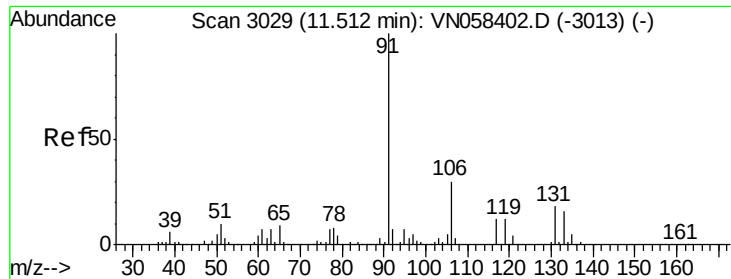
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.929 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion:131 Resp: 93322
Ion Ratio Lower Upper
131 100
133 96.6 47.8 143.3
119 68.0 33.0 99.0





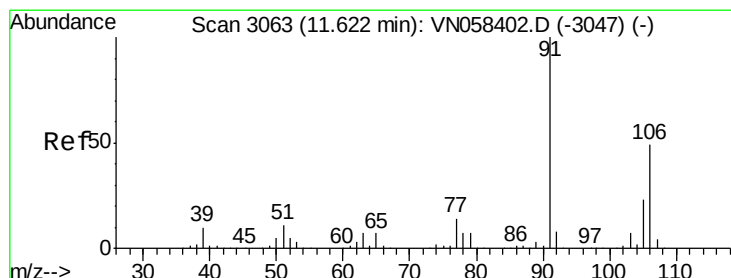
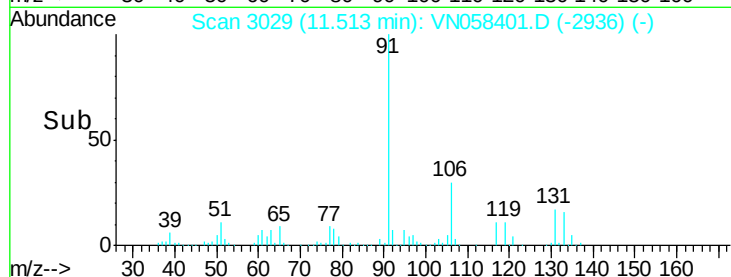
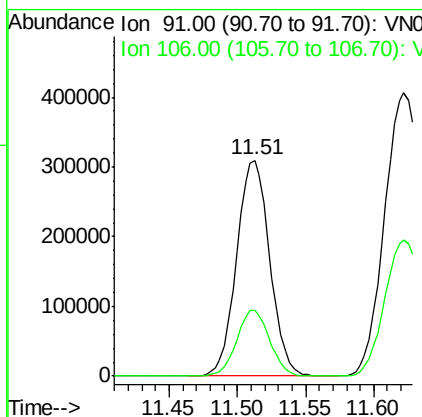
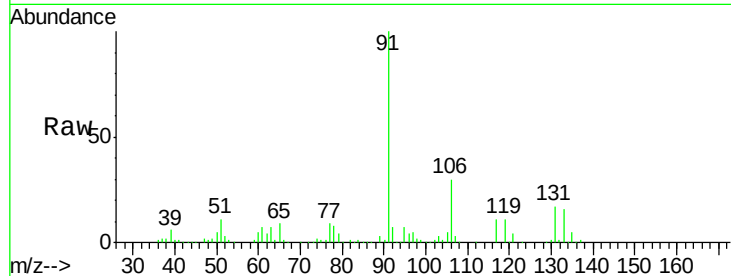
#67
Ethyl Benzene
Concen: 24.172 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 521566
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5

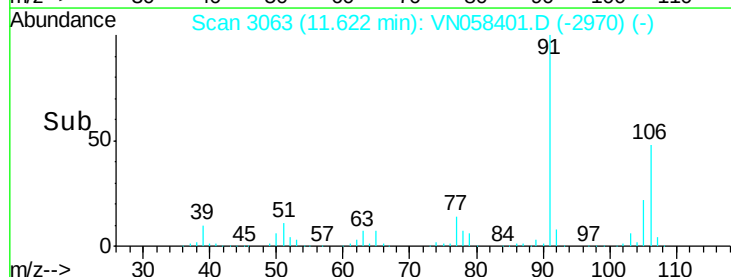
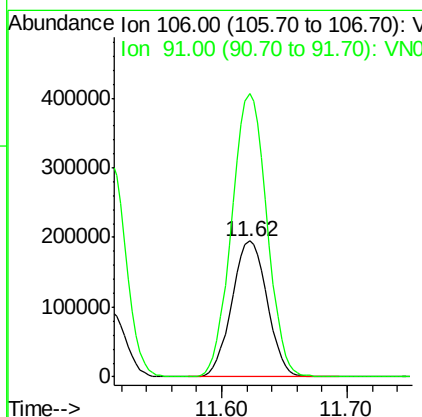
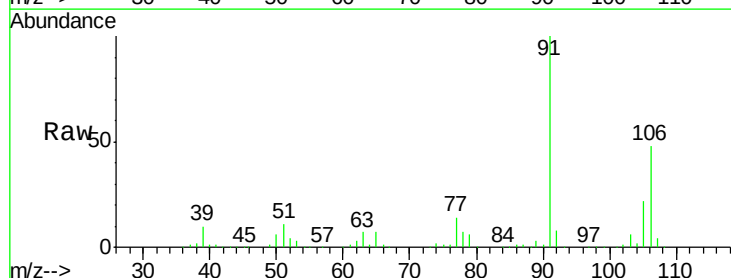
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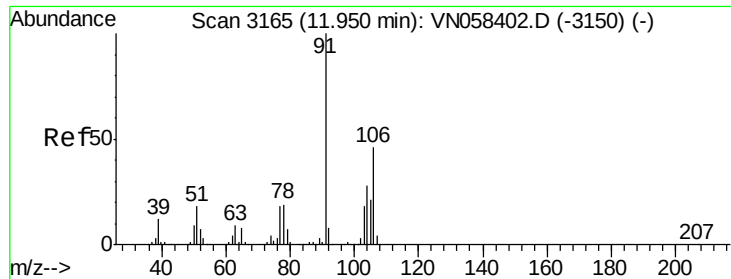
MMDadoda
9/30/2019 10:18:32 AM



#68
m/p-Xylenes
Concen: 46.795 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion: 106 Resp: 380783
Ion Ratio Lower Upper
106 100
91 207.0 165.0 247.4





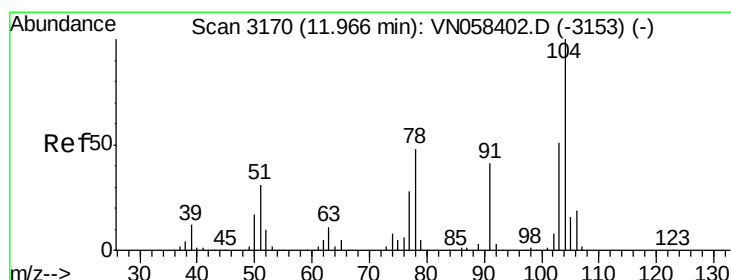
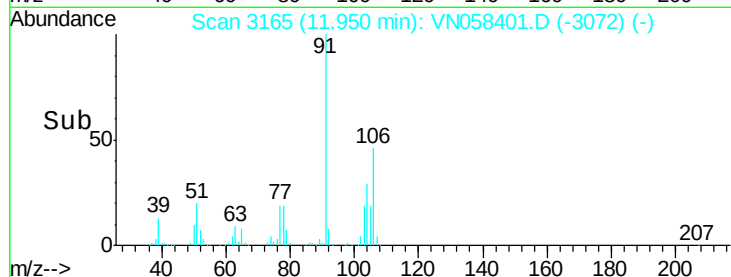
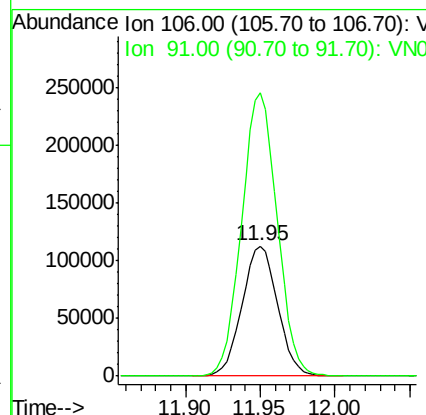
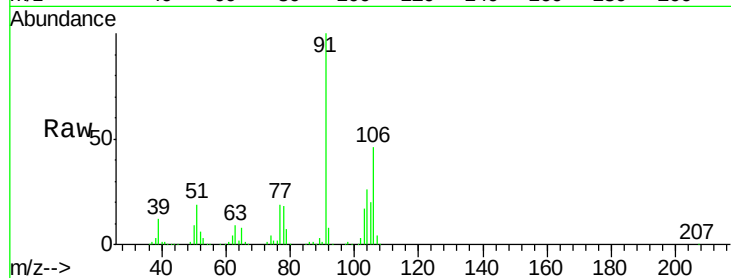
#69
o-Xylene
Concen: 23.338 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	185766		
91	91	218.3	109.1	327.4	

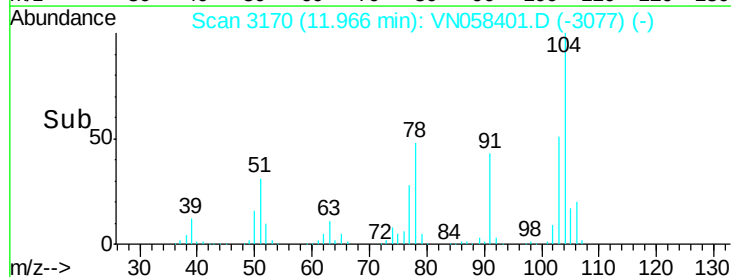
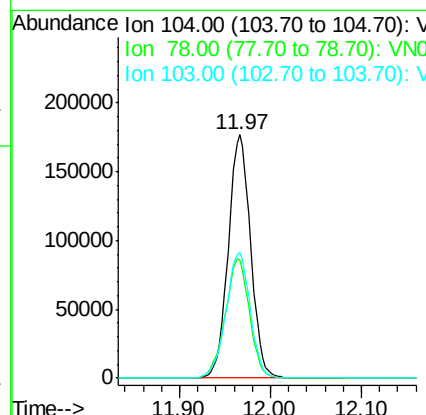
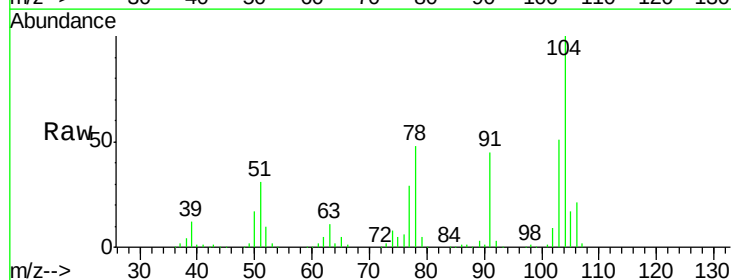
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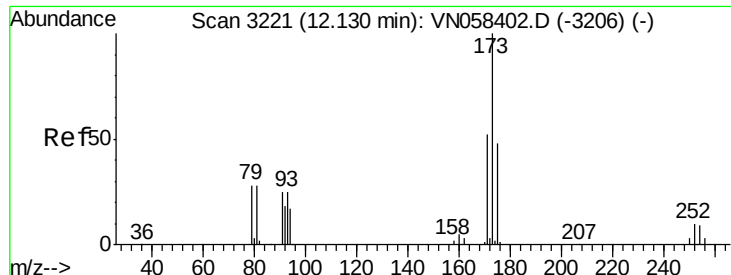
MMDadoda
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#70
Styrene
Concen: 22.266 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	302048		
78	78	53.1	42.8	64.2	
103	103	55.8	43.7	65.5	





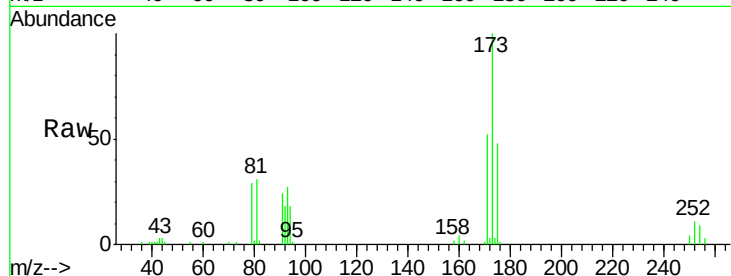
#71
Bromoform
Concen: 19.369 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	73.0
254	0.0	0.1	0.1

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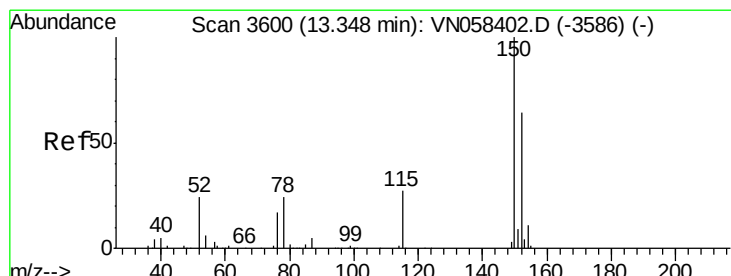
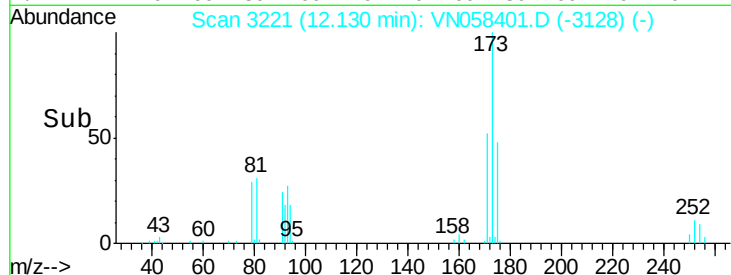
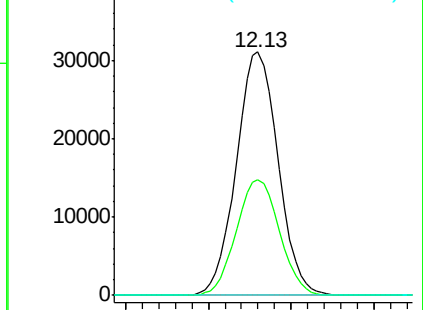


Abundance

Ion 172.70 (172.40 to 173.40): V

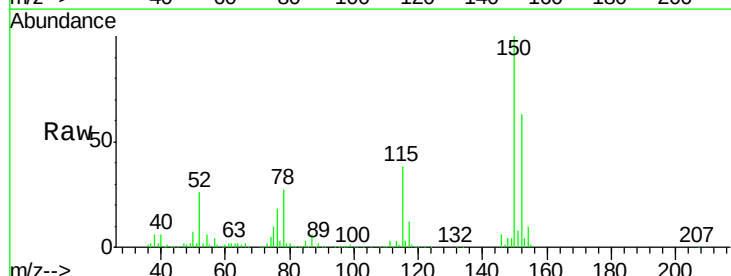
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058401.D
Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.0	90.0
150	164.1	0.0	348.2

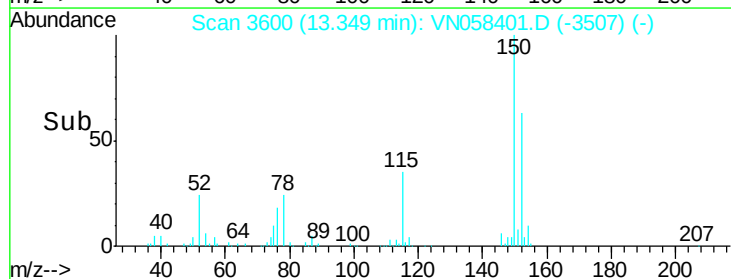
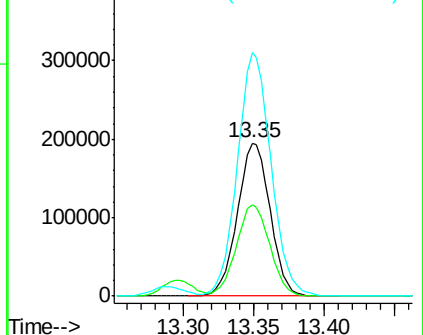


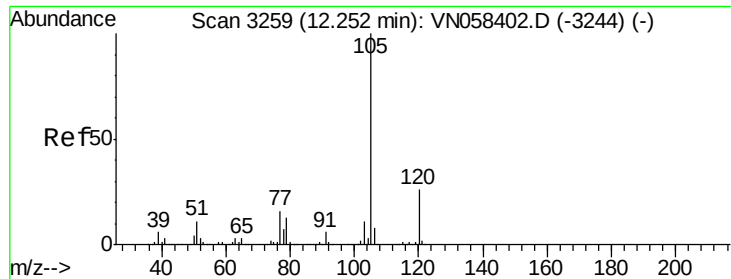
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 24.339 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 499354

Ion Ratio Lower Upper

105 100

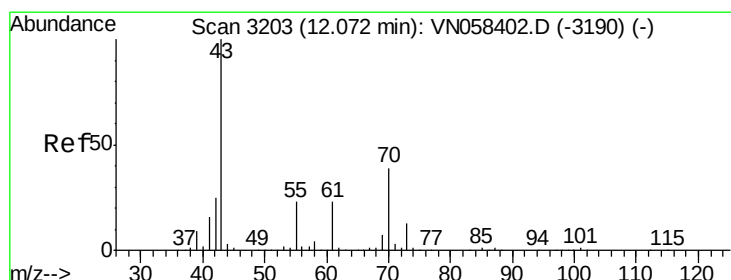
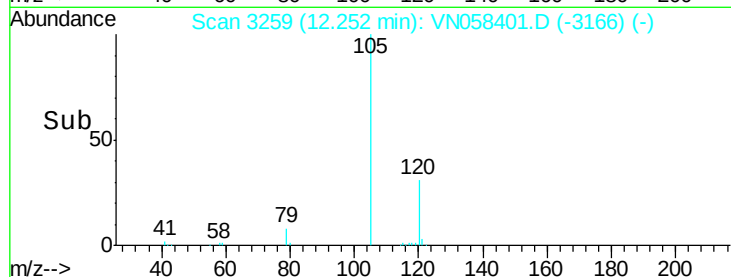
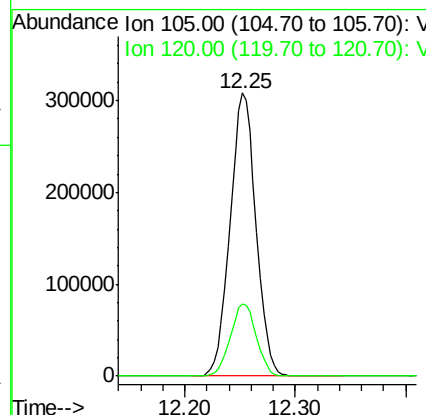
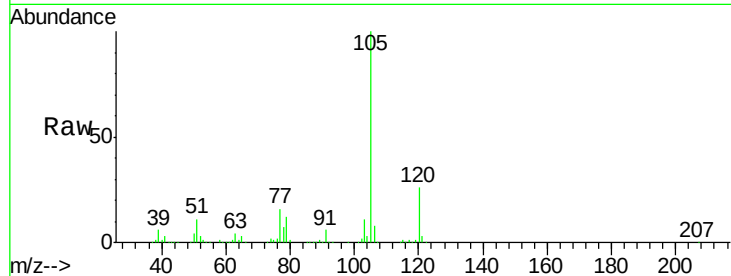
120 25.8 12.8 38.4

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#74

N-ethyl acetate

Concen: 22.486 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion: 43 Resp: 190727

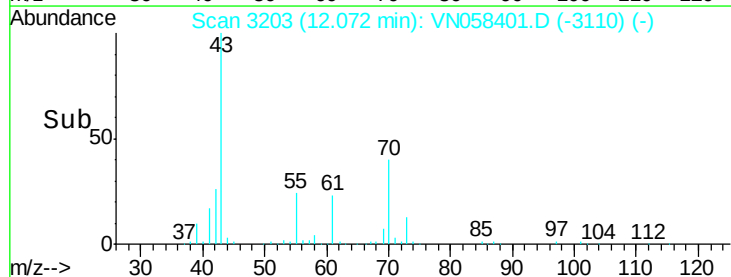
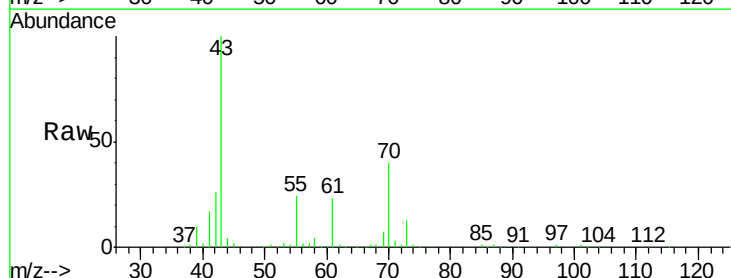
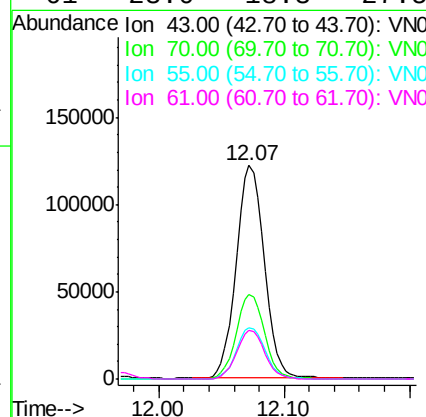
Ion Ratio Lower Upper

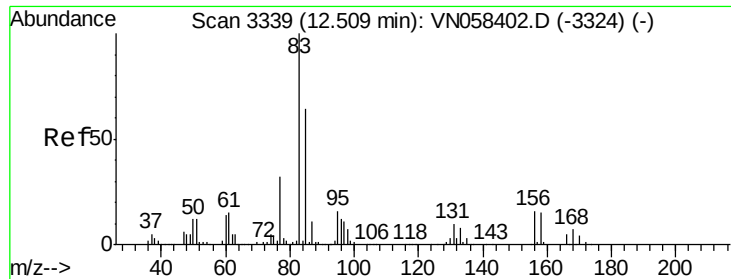
43 100

70 39.8 31.4 47.2

55 24.7 18.2 27.4

61 23.0 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.610 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 83 Resp: 144688

Ion Ratio Lower Upper

83 100

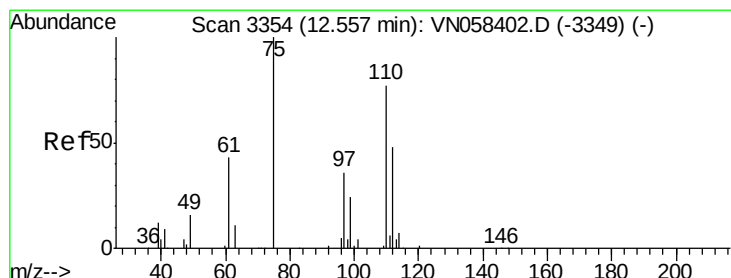
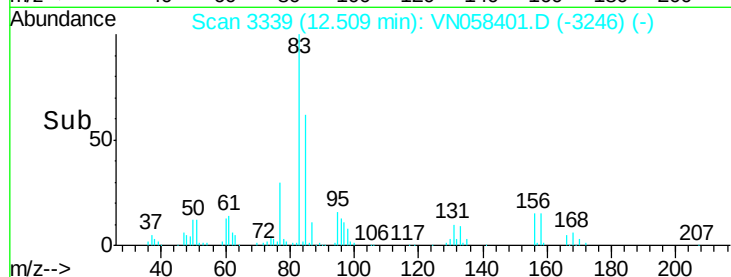
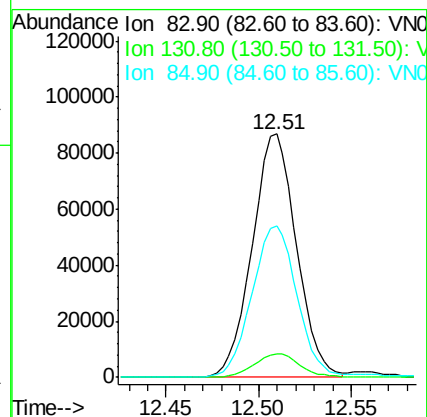
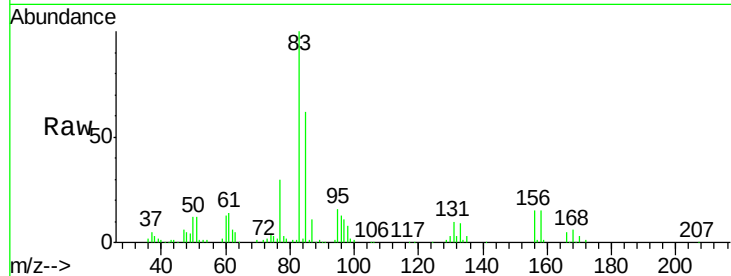
131 9.9 4.9 14.7

85 63.0 32.0 96.0

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#76

1,2,3-Trichloropropane

Concen: 21.472 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN058401.D

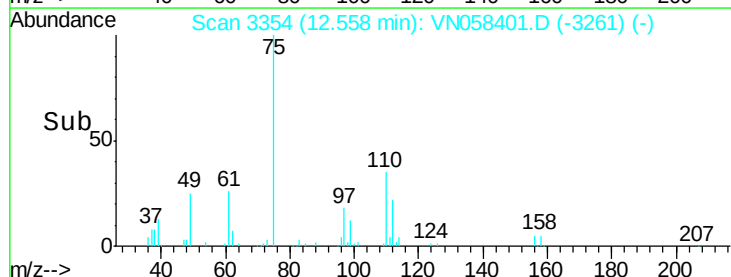
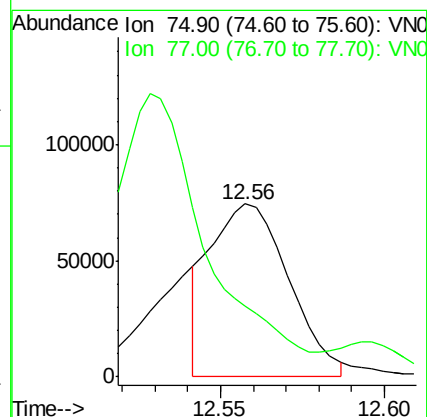
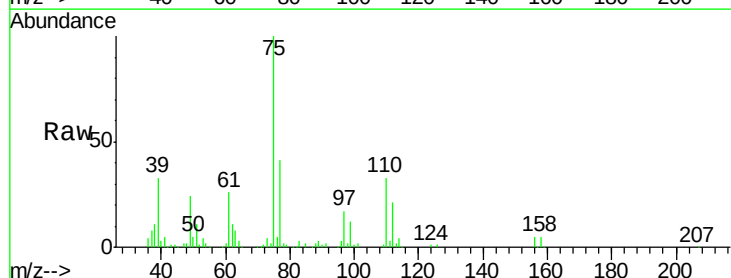
Acq: 27 Sep 2019 11:55

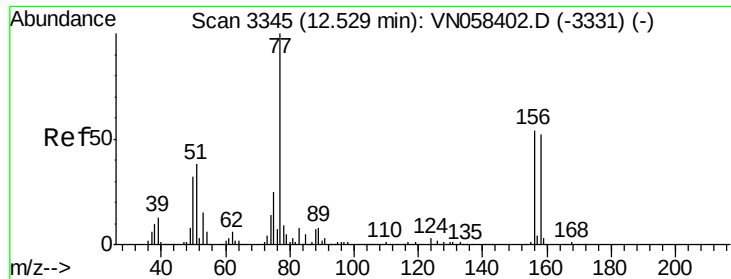
Tgt Ion: 75 Resp: 123573

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 22.043 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

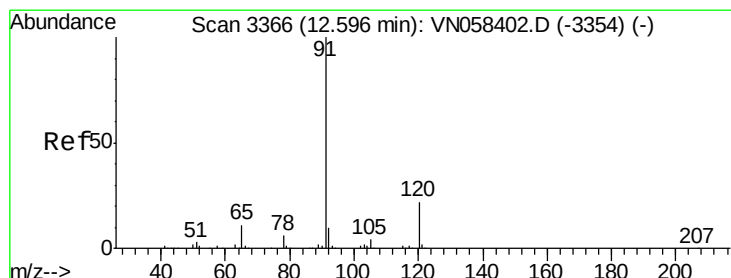
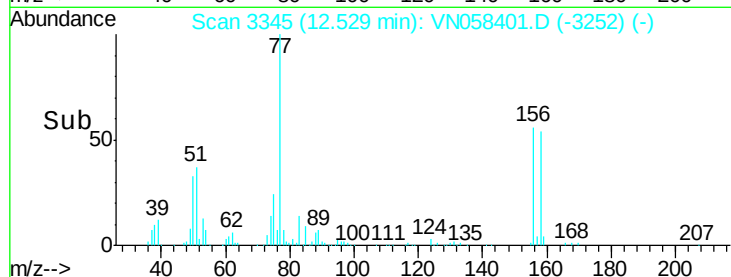
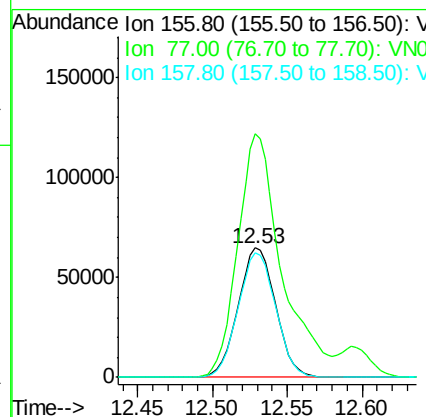
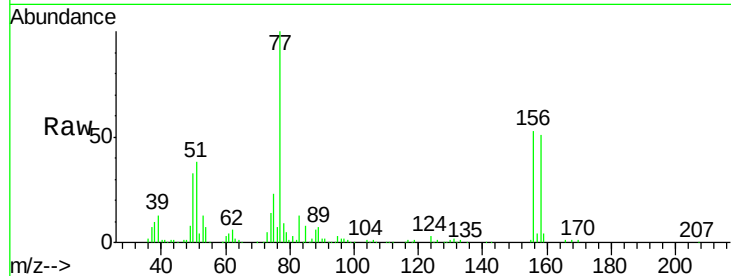
ClientSampleId :

VSTDIC020

Tot Ion	156	Resp	112764
Ion Ratio	Lower	Upper	
156	100		
77	221.3	110.0	330.0
158	97.0	47.9	143.8

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#78

n-propylbenzene

Concen: 24.359 ug/l

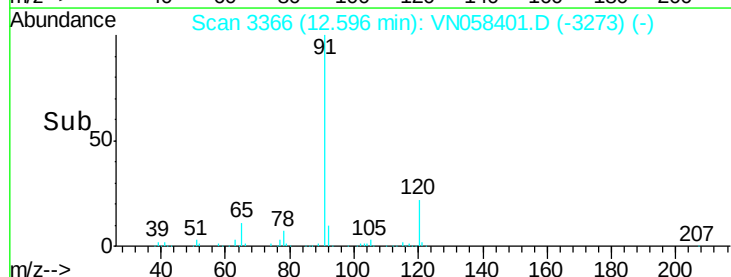
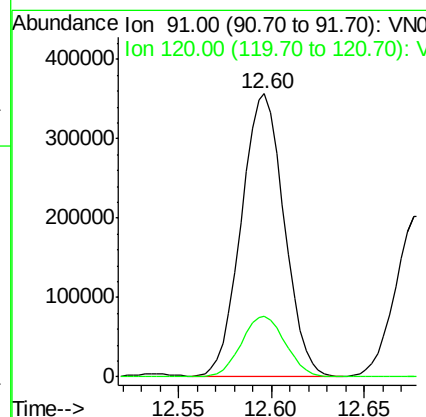
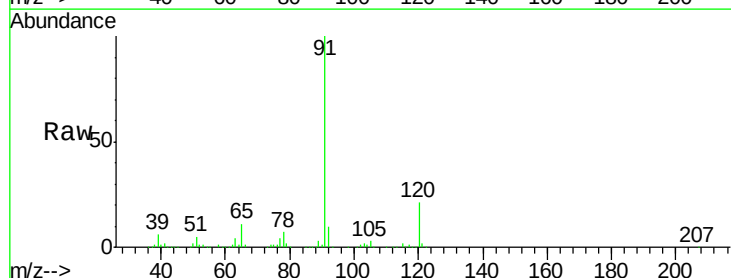
RT: 12.60 min Scan# 3366

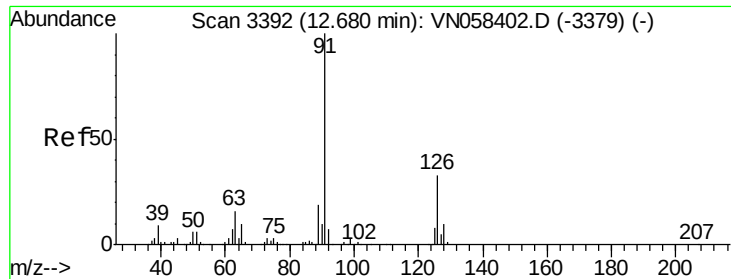
Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion	91	Resp	568282
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
91	100		
120	22.1	10.9	32.9





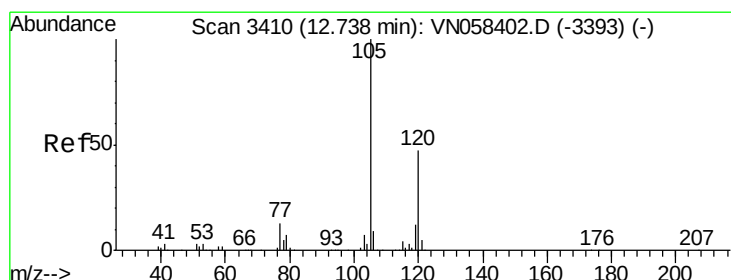
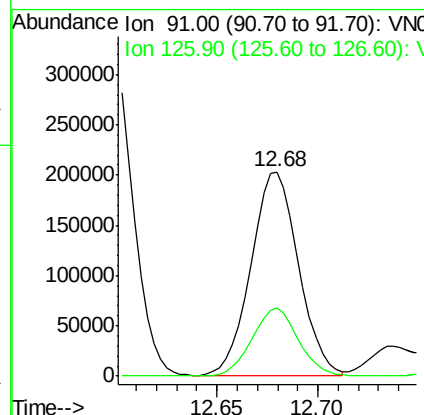
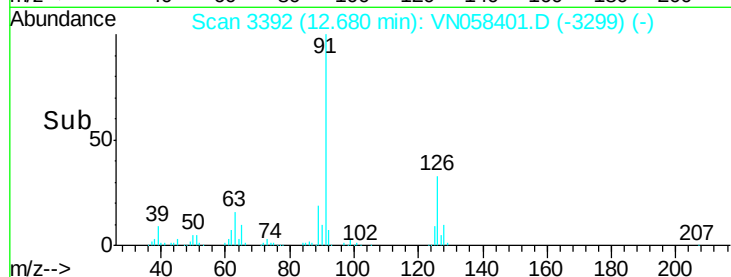
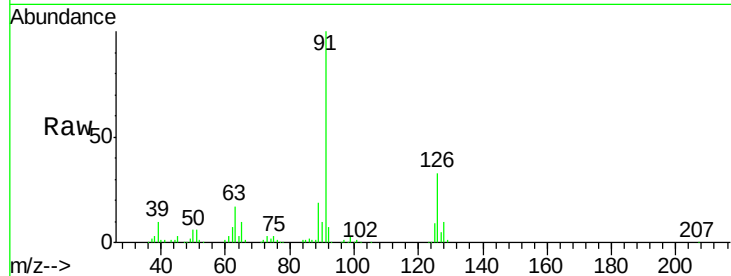
#79
 2-Chlorotoluene
 Concen: 23.012 ug/l
 RT: 12.68 min Scan# 3392
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 91 Resp: 333675
 Ion Ratio Lower Upper
 91 100
 126 32.7 16.2 48.6

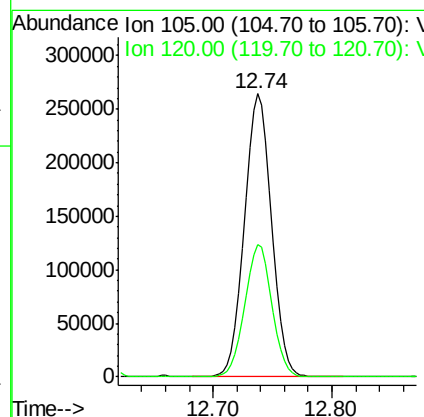
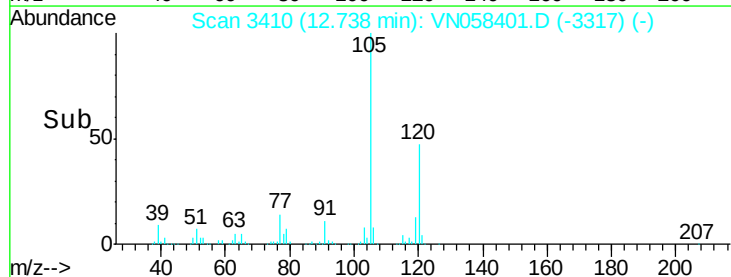
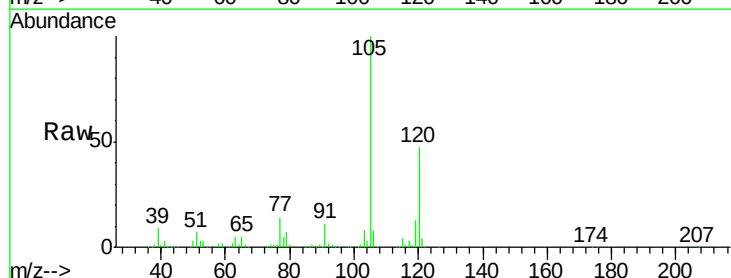
Manual Integrations
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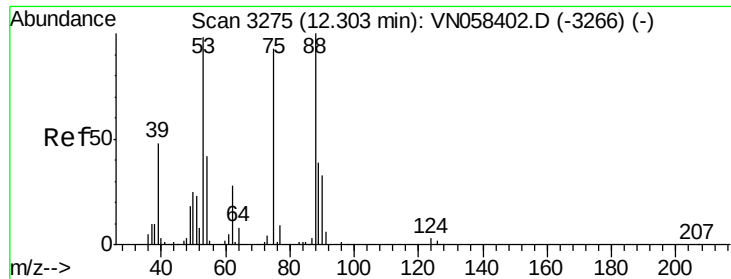
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 24.082 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion: 105 Resp: 416437
 Ion Ratio Lower Upper
 105 100
 120 46.7 23.5 70.6





#81

trans-1,4-Dichloro-2-butene

Concen: 20.675 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

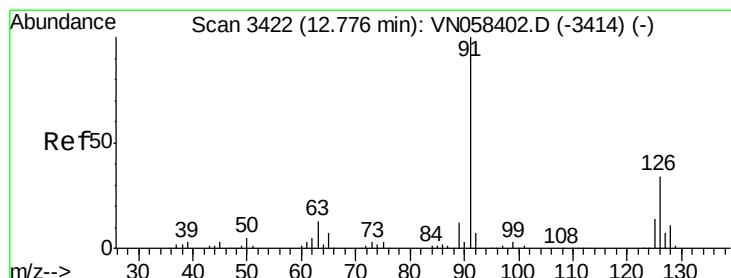
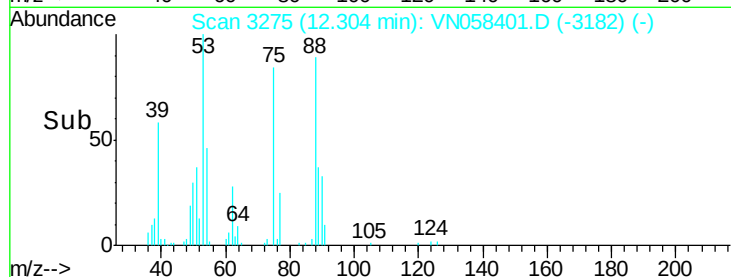
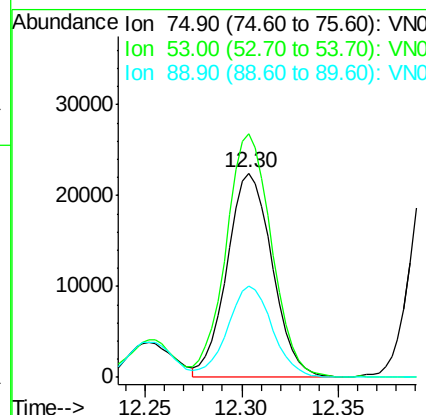
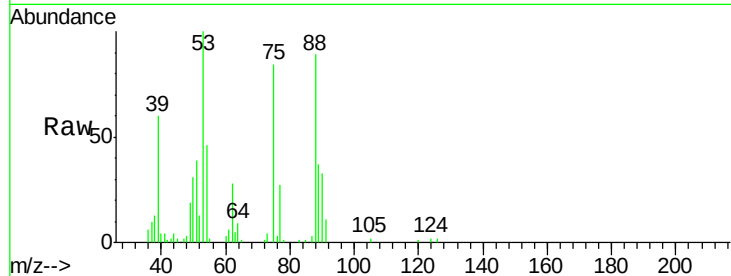
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	36599
Ion Ratio	Lower	Upper	
75	100		
53	120.2	85.4	128.0
89	44.2	35.0	52.4

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#82

4-Chlorotoluene

Concen: 22.872 ug/l

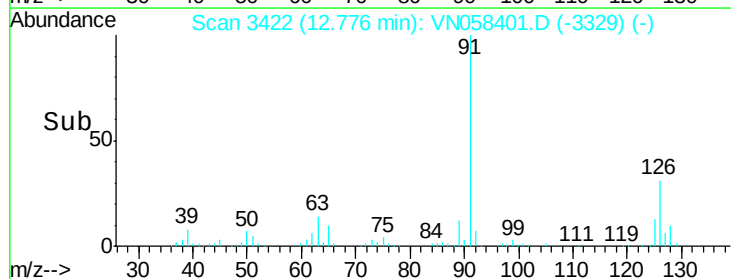
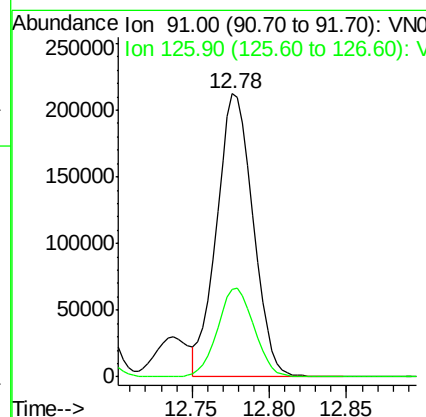
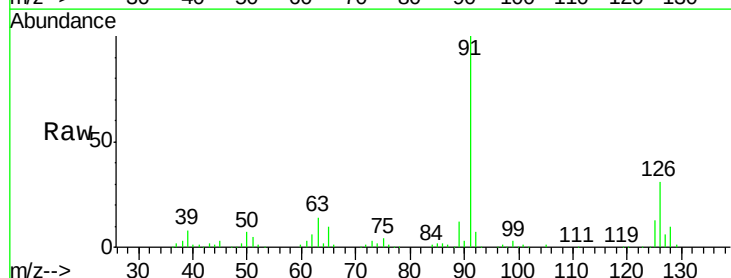
RT: 12.78 min Scan# 3422

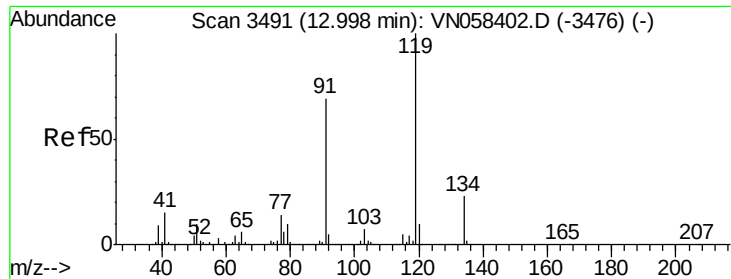
Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	91	Resp:	346803
Ion Ratio	Lower	Upper	
91	100		
126	31.6	15.9	47.7





#83

tert-Butylbenzene

Concen: 22.752 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

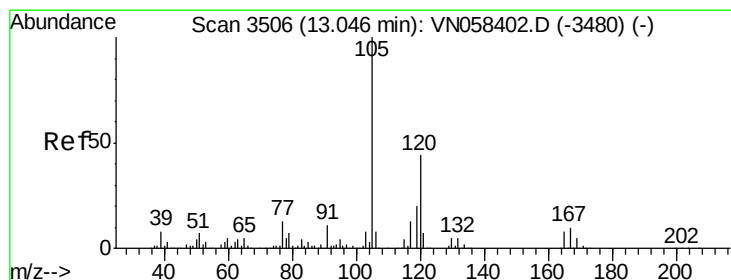
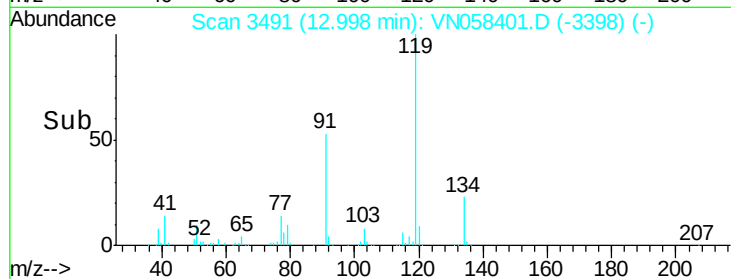
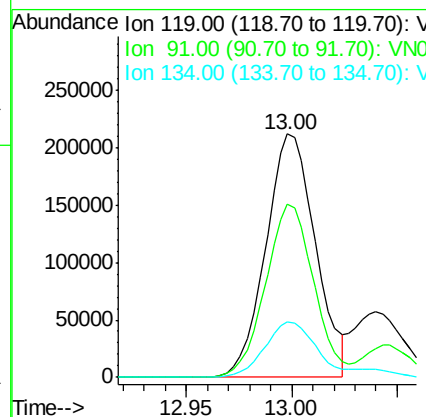
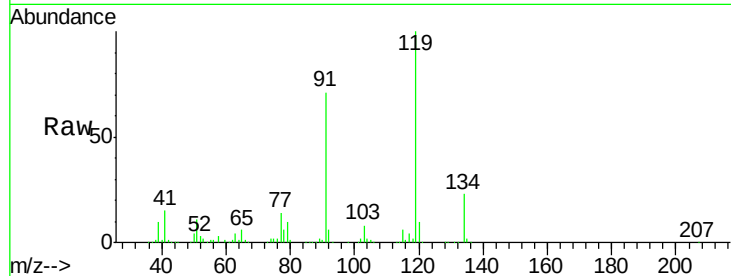
ClientSampled :

VSTDIC020

Tot Ion:	119	Resp:	347486
Ion Ratio	Lower	Upper	
119	100		
91	69.1	34.2	102.6
134	23.6	11.6	34.8

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 24.225 ug/l

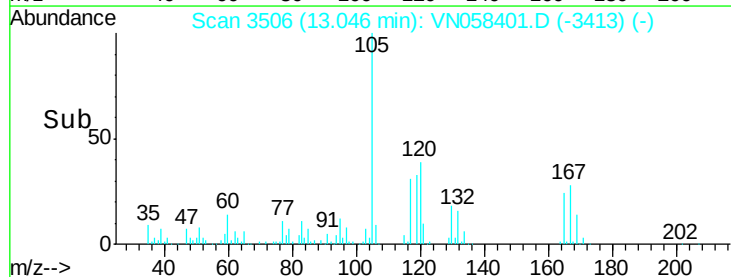
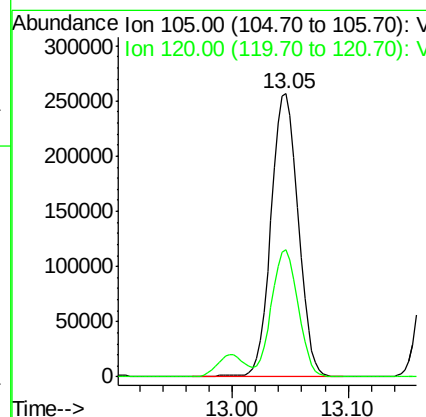
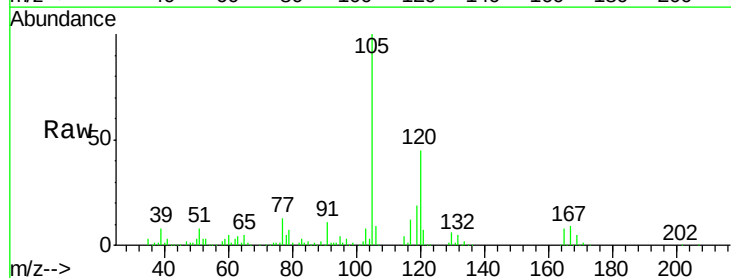
RT: 13.05 min Scan# 3506

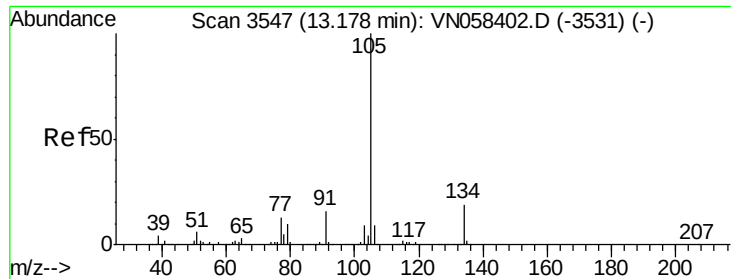
Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	105	Resp:	417114
Ion Ratio	Lower	Upper	
105	100		
120	44.2	21.7	65.1





#85

sec-Butylbenzene

Concen: 23.076 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 460865

Ion Ratio Lower Upper

105 100

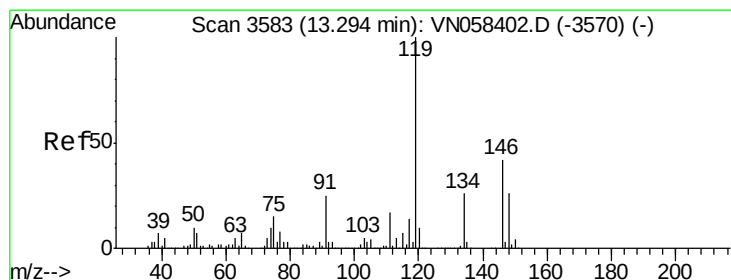
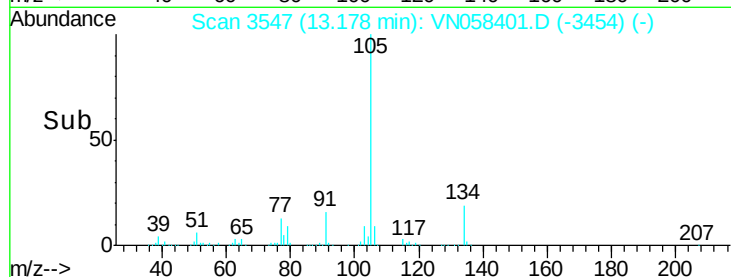
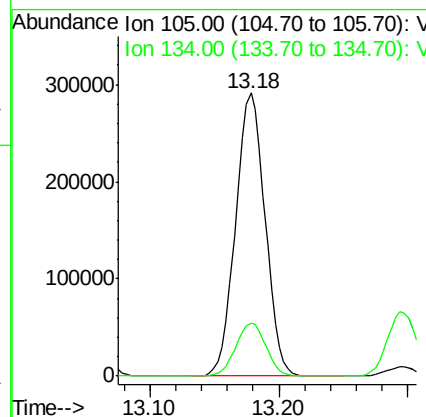
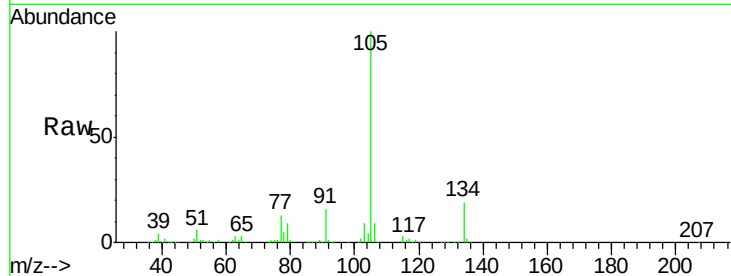
134 19.1 9.4 28.2

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 22.874 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

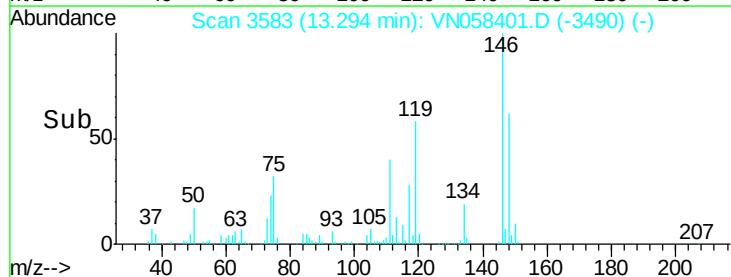
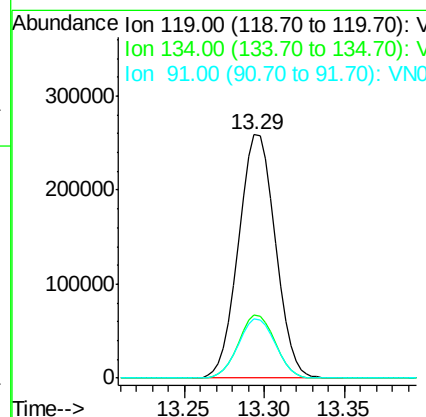
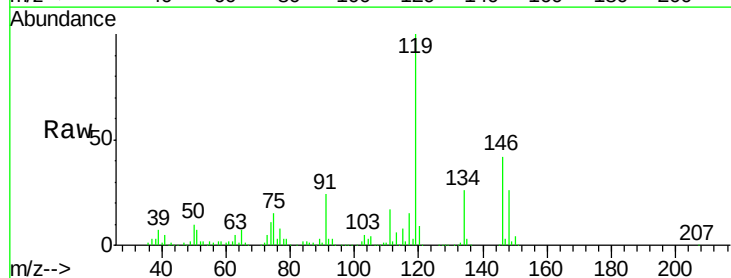
Tgt Ion:119 Resp: 405226

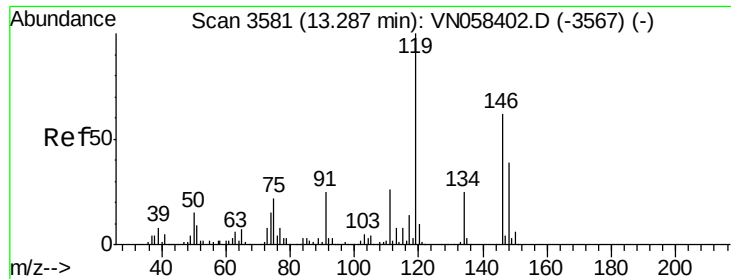
Ion Ratio Lower Upper

119 100

134 25.8 13.0 39.0

91 24.7 12.4 37.0





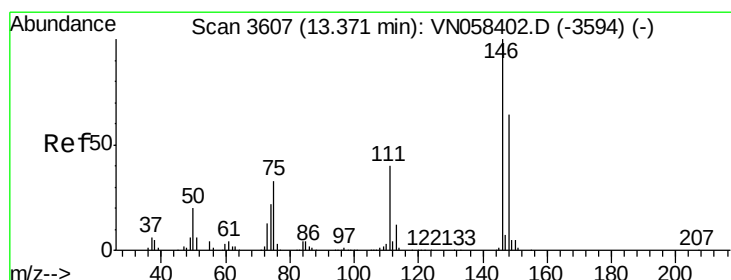
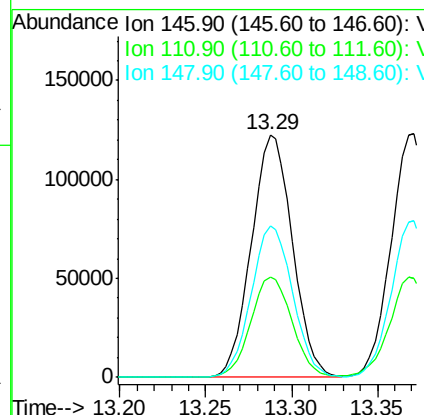
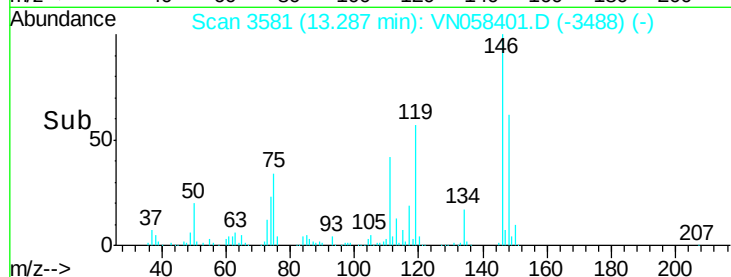
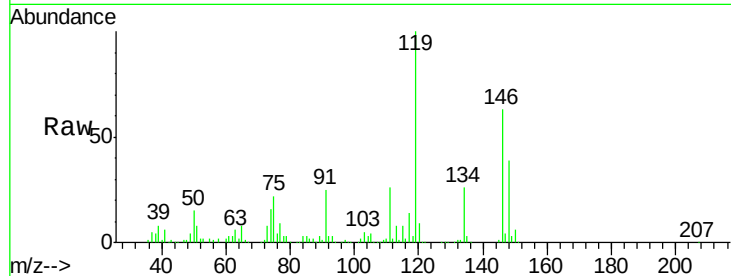
#87
 1,3-Dichlorobenzene
 Concen: 21.850 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	202697		
111	41.7	20.8	62.4	
148	62.9	31.4	94.3	

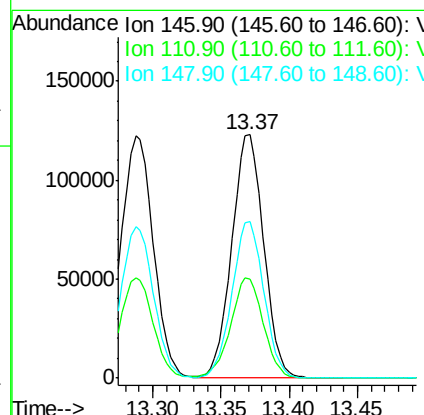
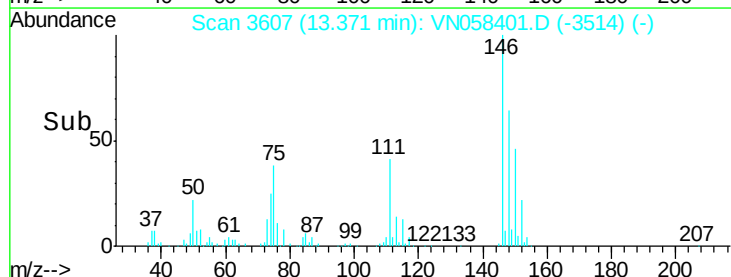
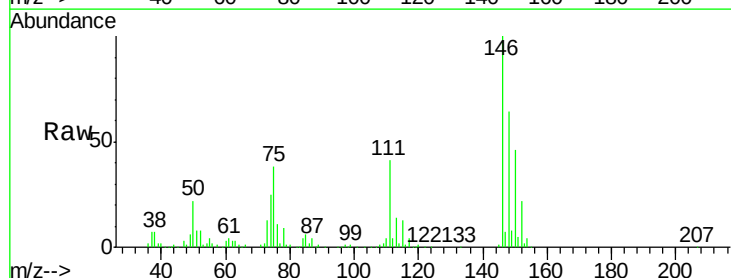
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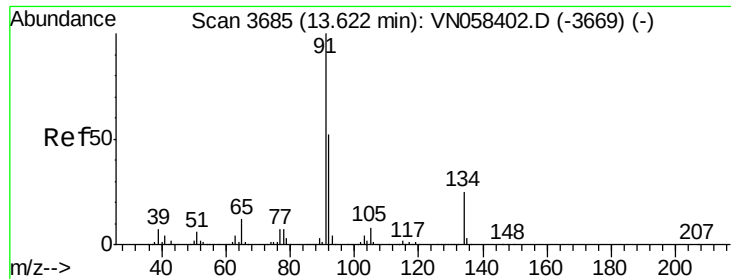
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#88
 1,4-Dichlorobenzene
 Concen: 21.248 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	200653		
111	42.2	20.5	61.6	
148	64.2	31.5	94.5	





#89

n-Butylbenzene

Concen: 21.959 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

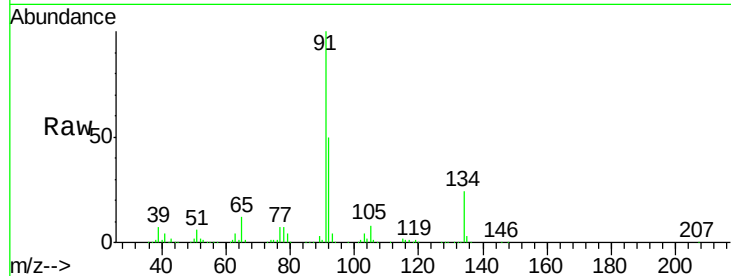
ClientSampleId :

VSTDIC020

Tot Ion:	91	Resp:	363738
Ion	Ratio	Lower	Upper
91	100		
92	50.1	25.7	77.1
134	23.4	12.2	36.6

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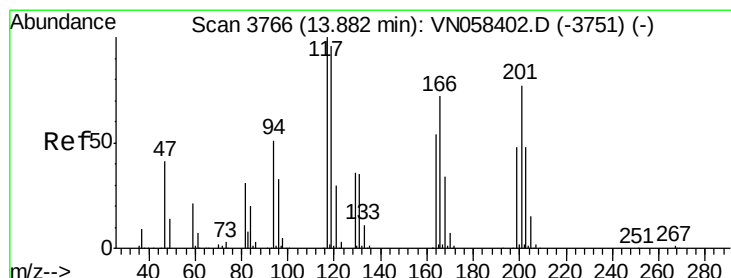
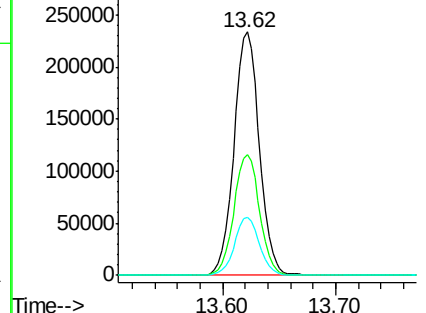
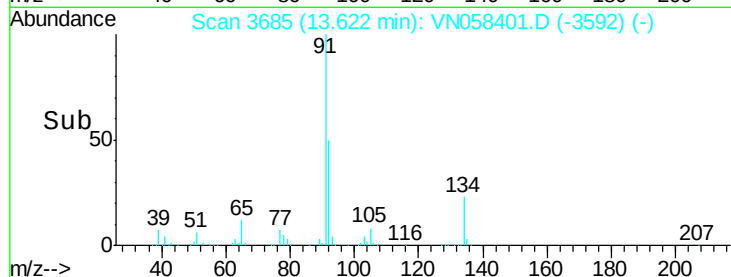
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Abundance Ion 91.00 (90.70 to 91.70): VN058401.D (-3673) (-)

Ion 92.00 (91.70 to 92.70): VN058401.D (-3673) (-)

Ion 134.00 (133.70 to 134.70): VN058401.D (-3673) (-)



#90

Hexachloroethane

Concen: 21.765 ug/l

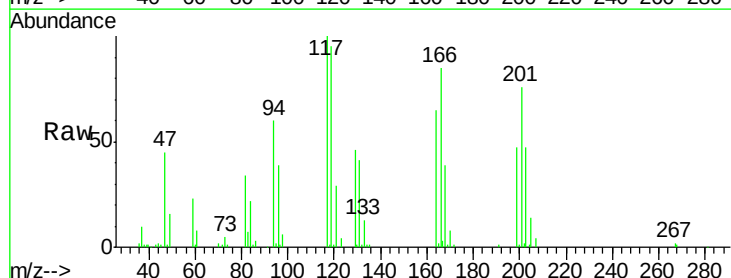
RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058401.D

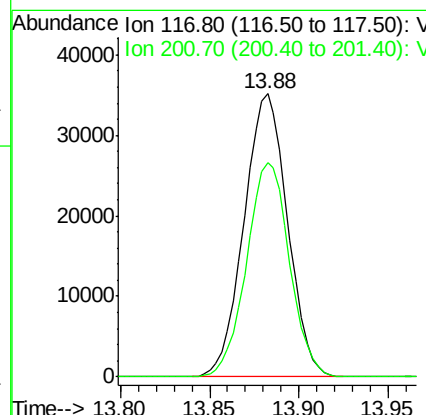
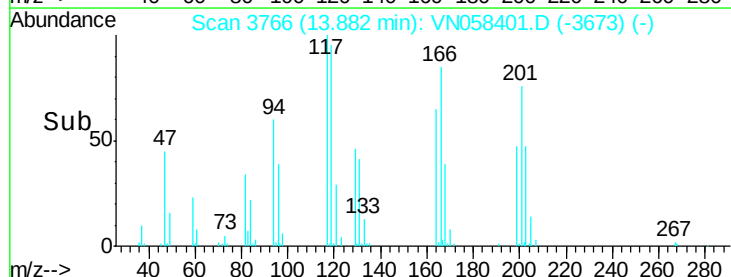
Acq: 27 Sep 2019 11:55

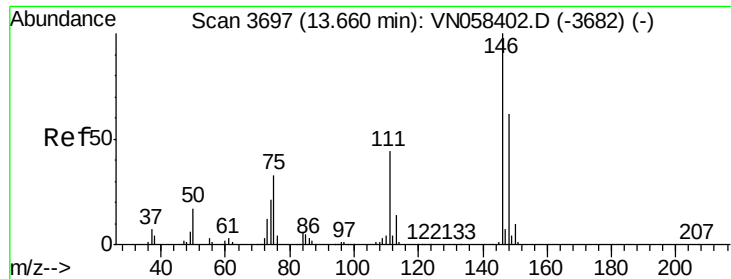
Tgt Ion:	117	Resp:	59696
Ion	Ratio	Lower	Upper
117	100		
201	74.7	38.6	116.0



Abundance Ion 116.80 (116.50 to 117.50): VN058401.D (-3673) (-)

Ion 200.70 (200.40 to 201.40): VN058401.D (-3673) (-)





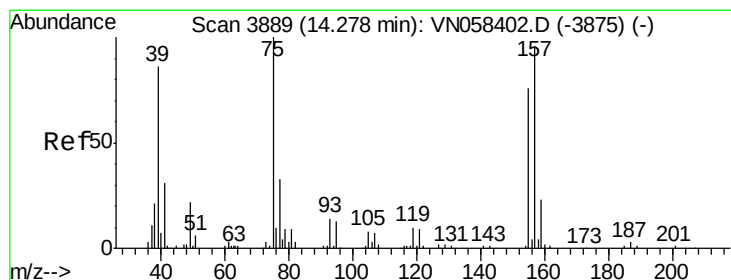
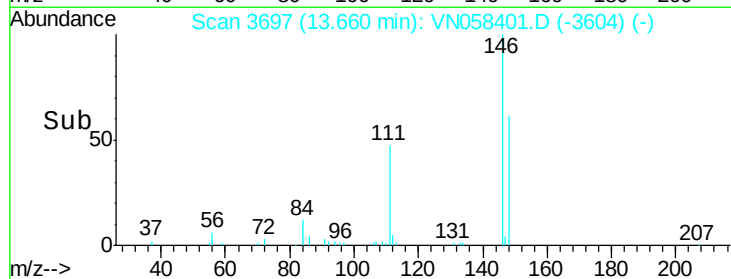
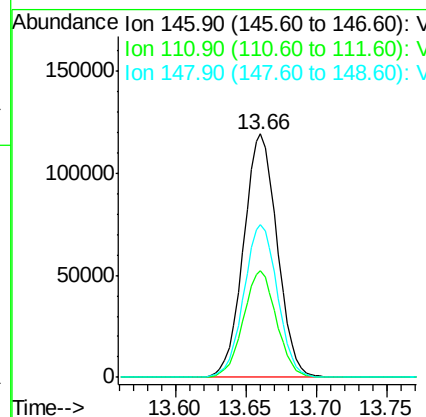
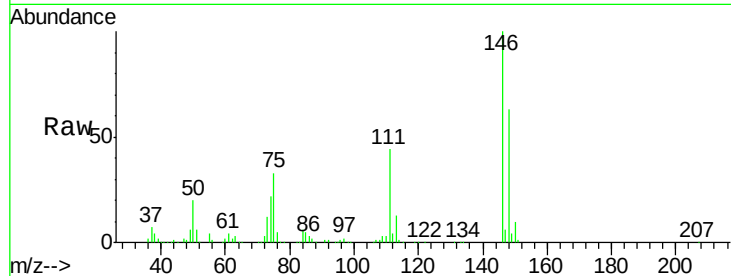
#91
 1,2-Dichlorobenzene
 Concen: 21.651 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	199766		
111	43.0	21.8	65.3	
148	62.8	31.5	94.5	

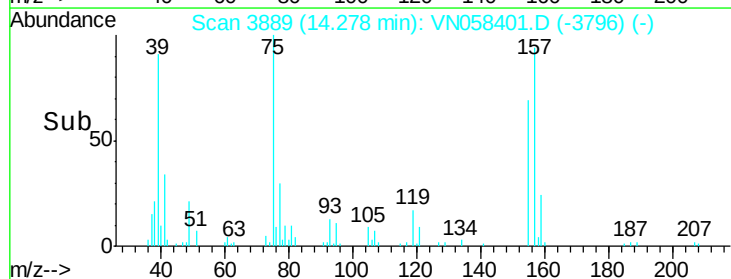
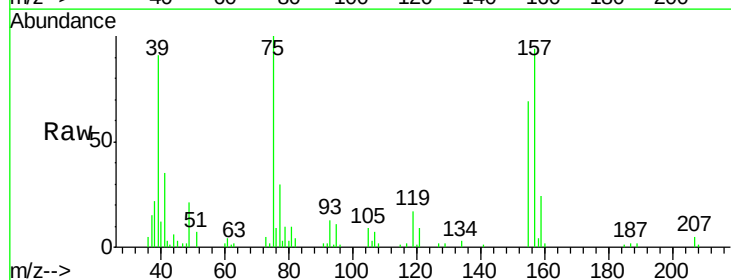
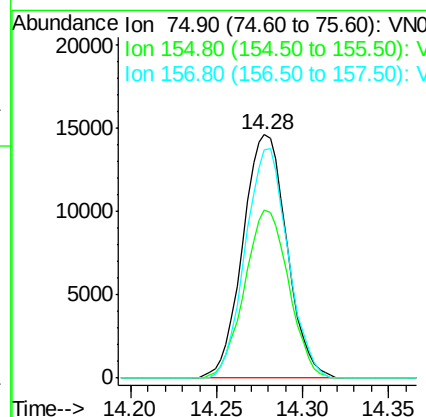
Manual Integrations
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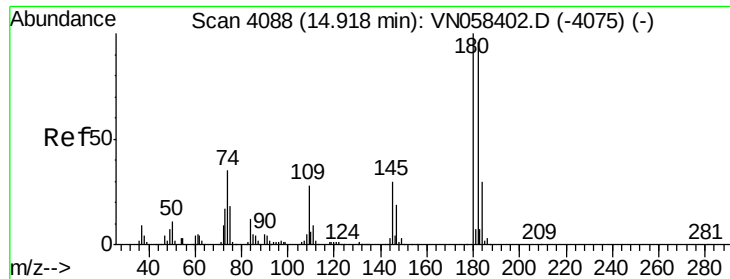
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.573 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	25950		
155	68.8	39.2	117.6	
157	90.7	48.7	146.1	





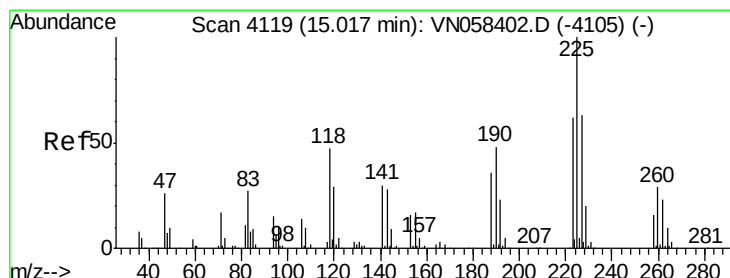
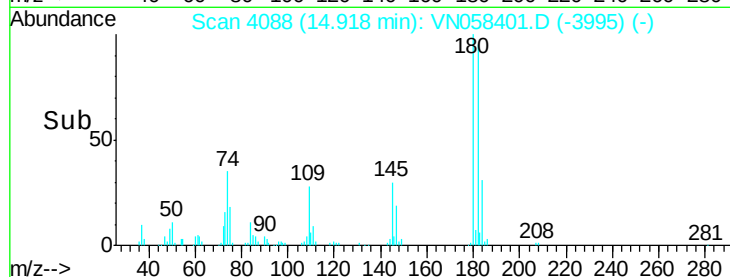
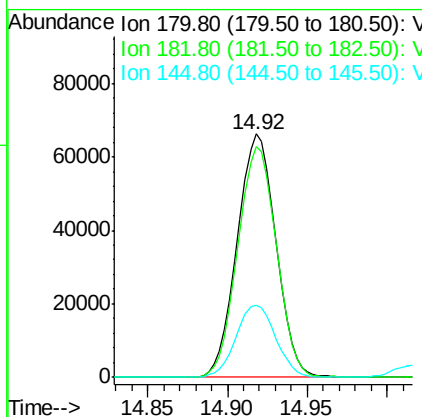
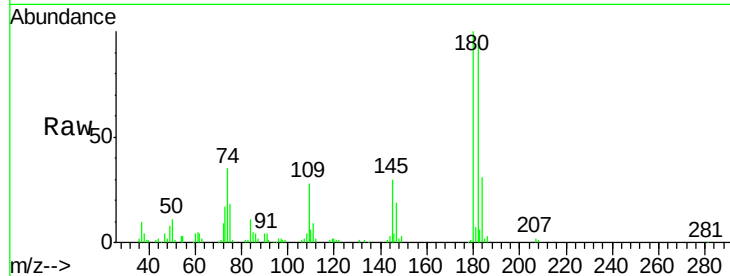
#93
 1,2,4-Trichlorobenzene
 Concen: 18.846 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	109397		
182	94.7	47.4	142.3	
145	30.4	15.3	45.9	

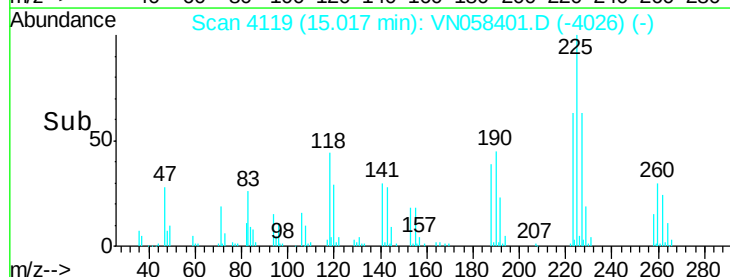
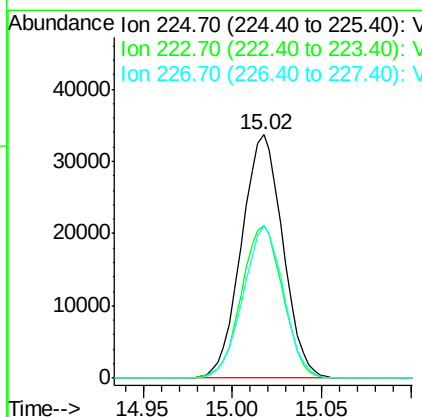
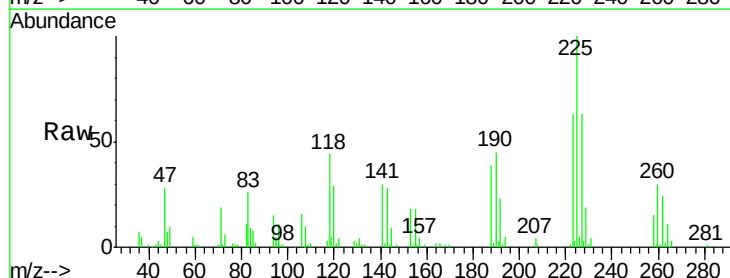
Manual Integrations
 APPROVED

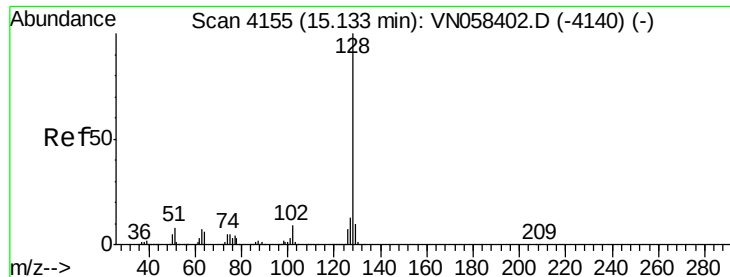
MMDadoda
 9/30/2019 10:18:32 AM



#94
 Hexachlorobutadiene
 Concen: 19.437 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058401.D
 Acq: 27 Sep 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	54627		
223	62.5	31.1	93.5	
227	61.3	31.4	94.2	





#95

Naphthalene

Concen: 18.878 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Instrument :

MSVOA_N

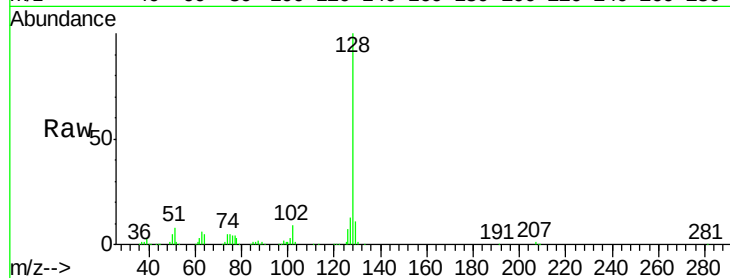
ClientSampled :

VSTDIC020

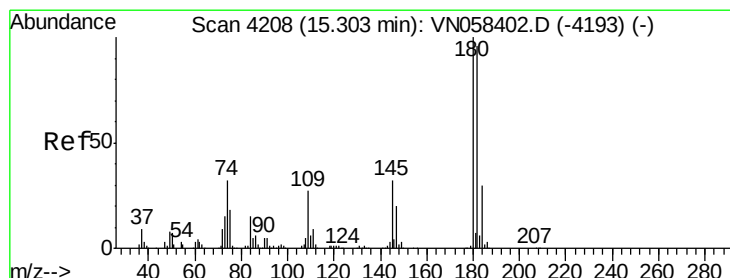
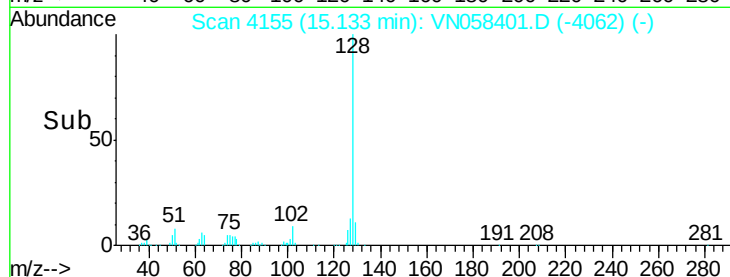
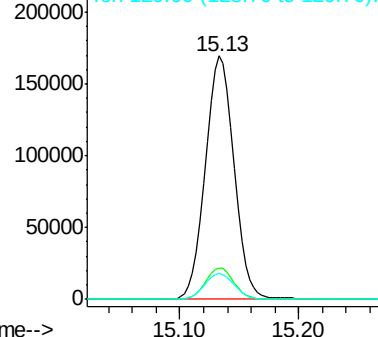
Tot Ion:	128	Resp:	283335
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.9	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:32 AM



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



#96

1,2,3-Trichlorobenzene

Concen: 18.019 ug/l

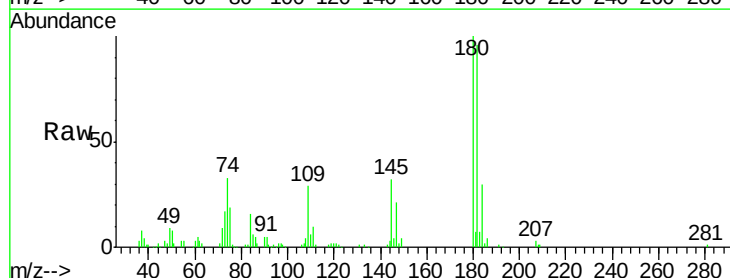
RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058401.D

Acq: 27 Sep 2019 11:55

Tgt Ion:	180	Resp:	98237
Ion Ratio	Lower	Upper	
180	100		
182	95.6	48.3	144.9
145	32.4	16.1	48.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

