

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN103019\
 Data File : VN059022.D
 Acq On : 30 Oct 2019 12:30
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/31/2019 3:37:29 PM

Quant Time: Oct 31 05:05:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	403926	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	636738	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	298506	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	278688	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	
35) Dibromofluoromethane	7.57	113	214745	51.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.60%	
50) Toluene-d8	10.08	98	806559	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
62) 4-Bromofluorobenzene	12.40	95	312895	52.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	214893	42.670	ug/l	100
3) Chloromethane	2.04	50	275509	44.171	ug/l	100
4) Vinyl Chloride	2.17	62	284261	45.900	ug/l	99
5) Bromomethane	2.54	94	164669	42.460	ug/l	98
6) Chloroethane	2.68	64	176285	44.388	ug/l	98
7) Trichlorofluoromethane	3.00	101	357564	46.662	ug/l	99
8) Diethyl Ether	3.39	74	138658	52.362	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	209404	49.293	ug/l	98
10) Methyl Iodide	3.93	142	257943	46.167	ug/l	99
11) Tert butyl alcohol	4.75	59	245277	249.494	ug/l	100
12) 1,1-Dichloroethene	3.72	96	194229	48.777	ug/l	97
13) Acrolein	3.58	56	144698	214.212	ug/l	99
14) Allyl chloride	4.30	41	373217	46.319	ug/l	96
15) Acrylonitrile	4.96	53	661833	267.635	ug/l	99
16) Acetone	3.79	43	747985	255.512	ug/l	98
17) Carbon Disulfide	4.03	76	546996	42.644	ug/l	100
18) Methyl Acetate	4.30	43	355662	53.439	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	749714	53.770	ug/l	99
20) Methylene Chloride	4.52	84	242866	48.587	ug/l	95
21) trans-1,2-Dichloroethene	5.01	96	214019	48.668	ug/l	97
22) Diisopropyl ether	5.92	45	854167	54.197	ug/l	95
23) Vinyl Acetate	5.87	43	3511233	277.297	ug/l	99
24) 1,1-Dichloroethane	5.82	63	454643	49.750	ug/l	99
25) 2-Butanone	6.81	43	980252	257.957	ug/l	99
26) 2,2-Dichloropropane	6.80	77	400239	50.633	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	255716	50.904	ug/l	99
28) Bromochloromethane	7.18	49	152366	50.062	ug/l	100
29) Tetrahydrofuran	7.19	42	609117	262.028	ug/l	100
30) Chloroform	7.35	83	446768	48.737	ug/l	100
31) Cyclohexane	7.63	56	388914	45.681	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	378057	48.928	ug/l	98
36) 1,1-Dichloropropene	7.77	75	335278	51.432	ug/l	100
37) Ethyl Acetate	6.91	43	372905	52.499	ug/l	99
38) Carbon Tetrachloride	7.75	117	326095	48.557	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	374857	51.212	ug/l	99
40) Benzene	8.02	78	1001040	52.294	ug/l	99
41) Methacrylonitrile	7.15	41	166153	52.521	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	363722	49.325	ug/l	99
43) Isopropyl Acetate	8.15	43	605516	53.154	ug/l	100
44) Trichloroethene	8.82	130	238458	51.138	ug/l	100
45) 1,2-Dichloropropane	9.10	63	278422	53.041	ug/l	100
46) Dibromomethane	9.19	93	168667	50.828	ug/l	97
47) Bromodichloromethane	9.39	83	356191	52.079	ug/l	98
48) Methyl methacrylate	9.19	41	279465	54.071	ug/l	96
49) 1,4-Dioxane	9.18	88	97154	1145.085	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1900668	285.649	ug/l	98
52) Toluene	10.15	92	608881	53.637	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	408380	53.937	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	437923	54.138	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	246408	52.692	ug/l	98
56) Ethyl methacrylate	10.42	69	397404	50.566	ug/l	96
57) 1,3-Dichloropropane	10.70	76	434959	52.994	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	841824	253.697	ug/l	100
59) 2-Hexanone	10.75	43	1459230	283.805	ug/l	98
60) Dibromochloromethane	10.90	129	276227	54.878	ug/l	99
61) 1,2-Dibromoethane	11.00	107	255588	53.406	ug/l	100
64) Tetrachloroethene	10.63	164	209824	50.447	ug/l	98
65) Chlorobenzene	11.43	112	654508	54.132	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	249275	54.634	ug/l	99
67) Ethyl Benzene	11.51	91	1201809	56.661	ug/l	99
68) m/p-Xylenes	11.62	106	892065	113.411	ug/l	99
69) o-Xylene	11.95	106	427969	57.048	ug/l	98
70) Styrene	11.97	104	722576	52.106	ug/l	99
71) Bromoform	12.13	173	199781	56.466	ug/l #	98
73) Isopropylbenzene	12.25	105	1169465	53.608	ug/l	99
74) N-amyl acetate	12.07	43	530812	53.671	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	391295	51.012	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	369305m	53.382	ug/l	
77) Bromobenzene	12.53	156	280448	52.156	ug/l	97
78) n-propylbenzene	12.59	91	1404997	54.486	ug/l	100
79) 2-Chlorotoluene	12.68	91	824450	52.239	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	997676	54.432	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	141035	53.107	ug/l	96
82) 4-Chlorotoluene	12.78	91	850433	52.729	ug/l	99
83) tert-Butylbenzene	13.00	119	850159	54.242	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	1004164	55.545	ug/l	99
85) sec-Butylbenzene	13.17	105	1155632	55.302	ug/l	99
86) p-Isopropyltoluene	13.29	119	1047125	56.791	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	508708	52.910	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	499922	51.934	ug/l	98
89) n-Butylbenzene	13.62	91	944743	55.778	ug/l	99
90) Hexachloroethane	13.88	117	191334	51.211	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	505935	53.539	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	78909	45.482	ug/l	94

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Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	294560	49.539	ug/l	99
94) Hexachlorobutadiene	15.01	225	165225	53.944	ug/l	98
95) Naphthalene	15.13	128	789008	46.317	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	287095	49.593	ug/l	100

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

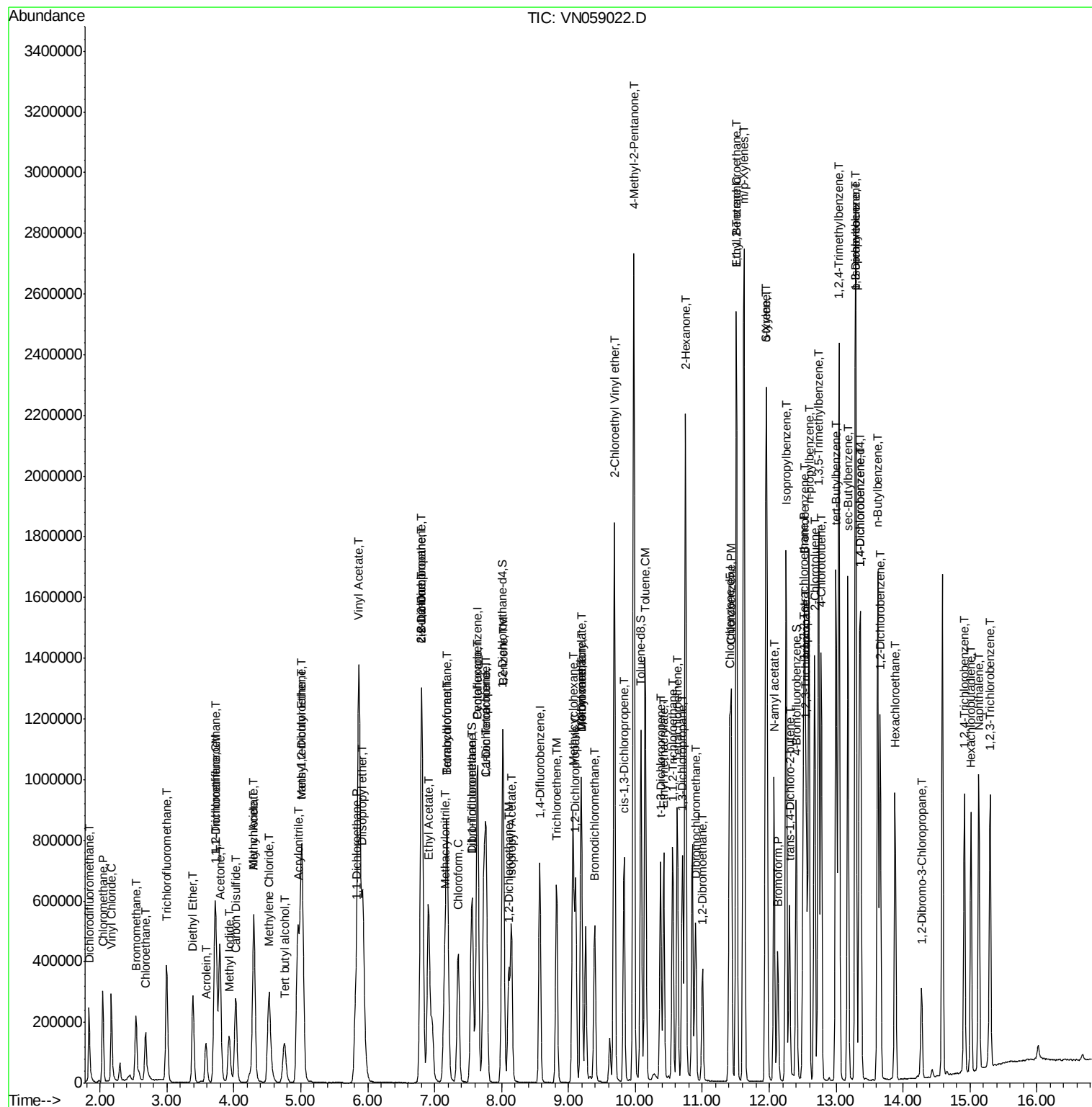
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 Data File : VN059022.D
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 168 Resp: 403926

Ion Ratio Lower Upper

168 100

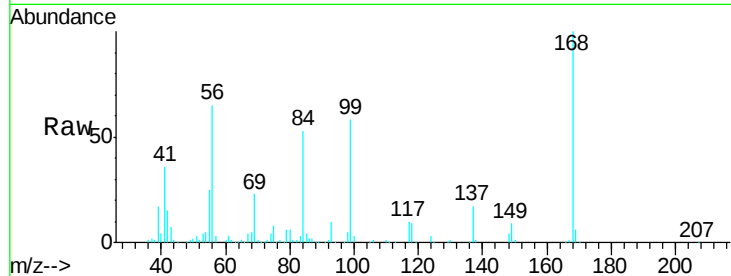
99 57.6 48.1 72.1

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

150000

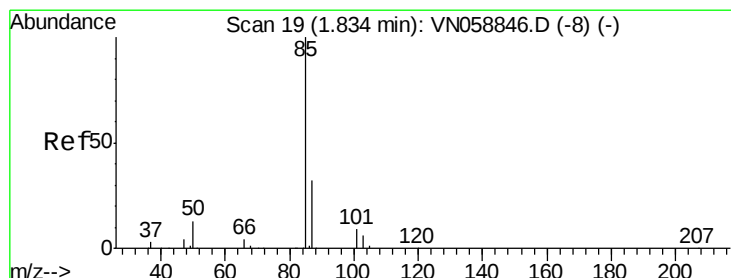
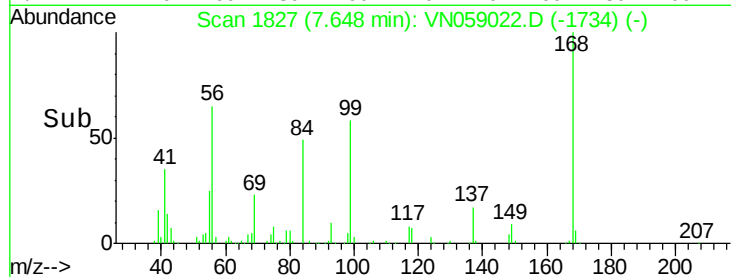
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50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 42.670 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059022.D

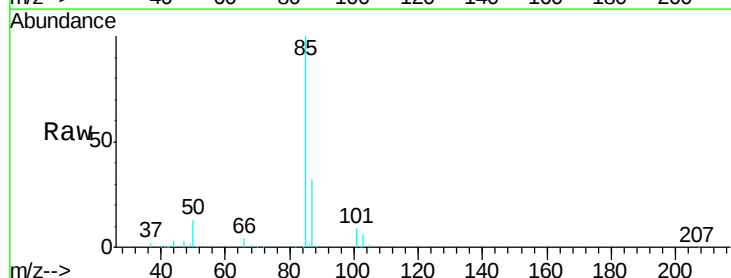
Acq: 30 Oct 2019 12:30

Tgt Ion: 85 Resp: 214893

Ion Ratio Lower Upper

85 100

87 32.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

150000

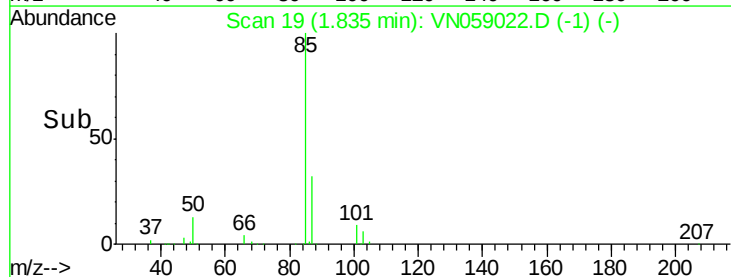
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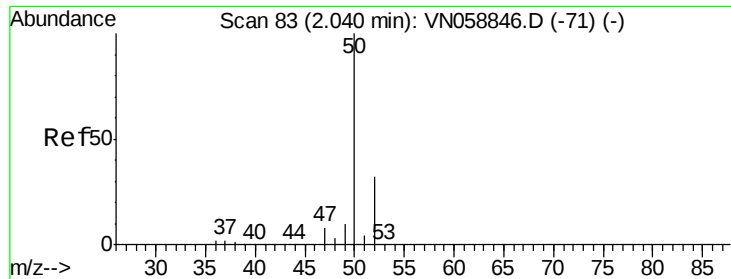
50000

0

1.80 1.90

Time-->





#3

Chloromethane

Concen: 44.171 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 275509

Ion Ratio Lower Upper

50 100

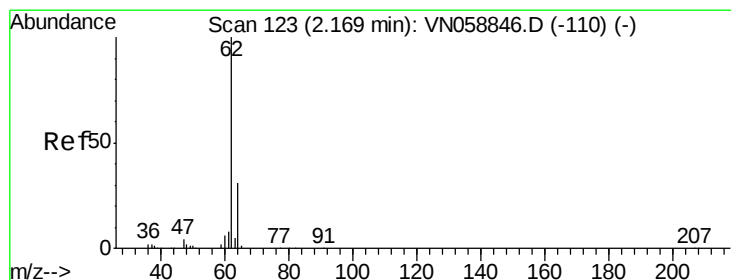
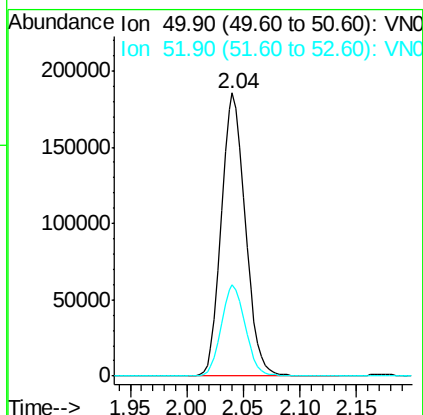
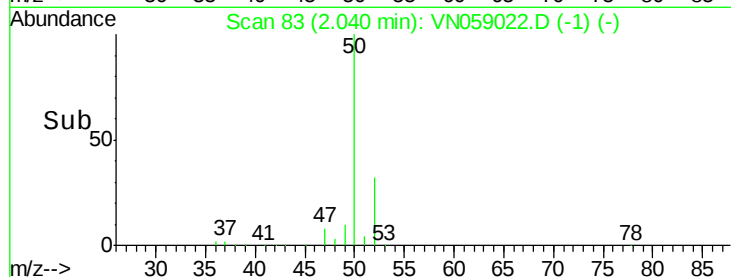
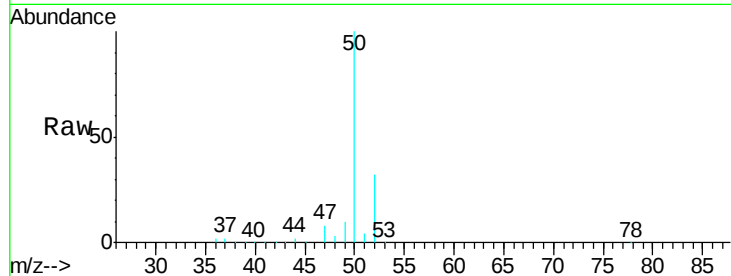
52 32.1 25.7 38.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 45.900 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059022.D

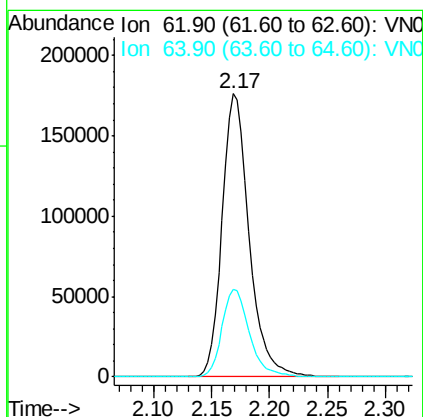
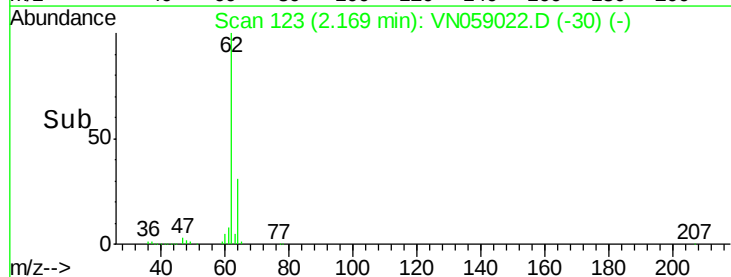
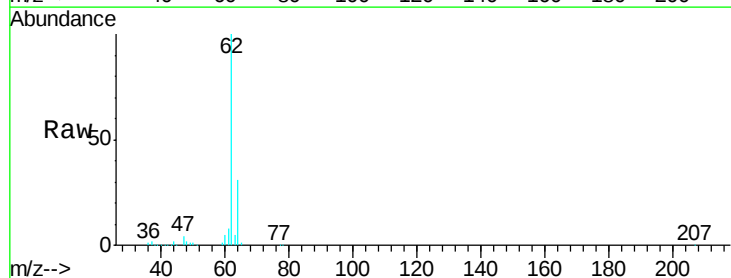
Acq: 30 Oct 2019 12:30

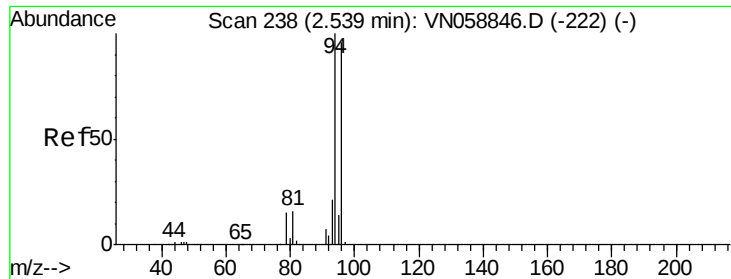
Tgt Ion: 62 Resp: 284261

Ion Ratio Lower Upper

62 100

64 31.1 24.6 36.8





#5

Bromomethane

Concen: 42.460 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 164669

Ion Ratio Lower Upper

94 100

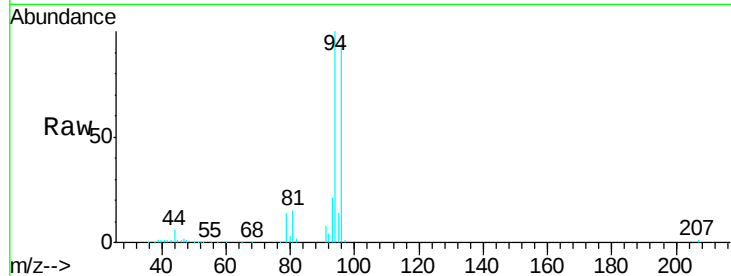
96 94.0 77.0 115.6

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN058846.D (-222) (-)

Ion 95.90 (95.60 to 96.60): VN058846.D (-222) (-)

80000

60000

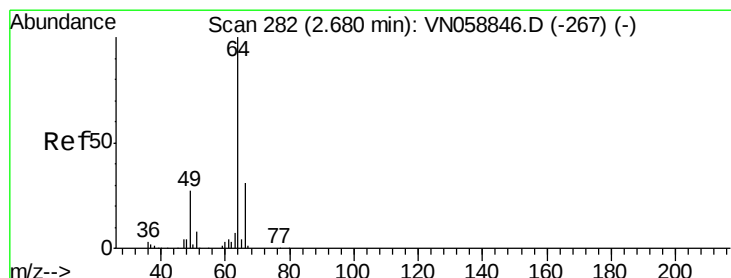
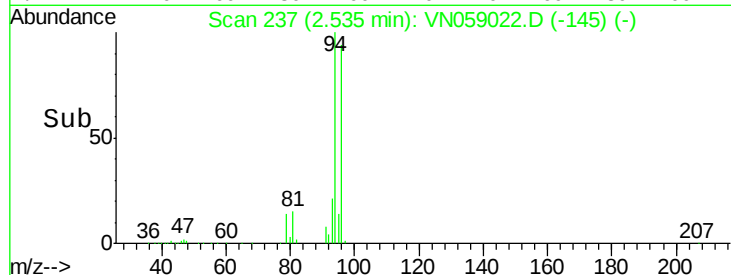
40000

20000

0

2.50 2.60

Time-->



#6

Chloroethane

Concen: 44.388 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN059022.D

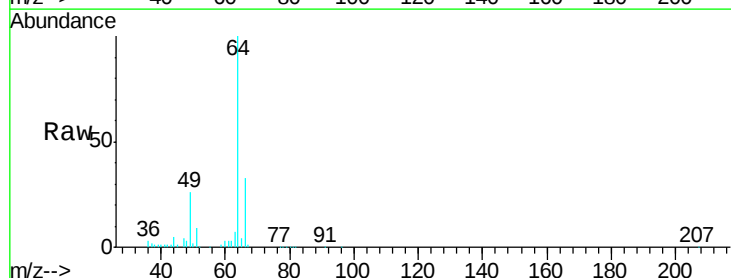
Acq: 30 Oct 2019 12:30

Tgt Ion: 64 Resp: 176285

Ion Ratio Lower Upper

64 100

66 32.6 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN058846.D (-267) (-)

Ion 65.90 (65.60 to 66.60): VN058846.D (-267) (-)

80000

60000

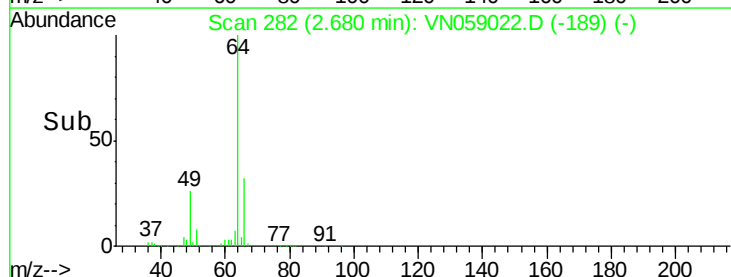
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20000

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2.60 2.70 2.80

Time-->





#7

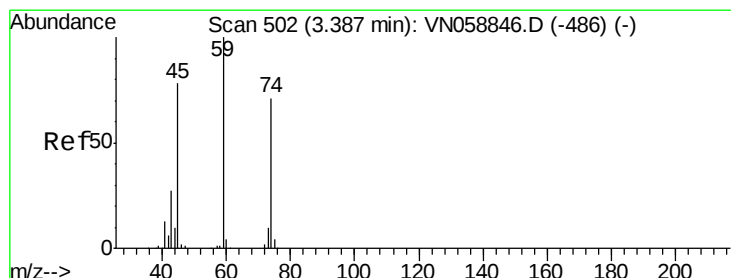
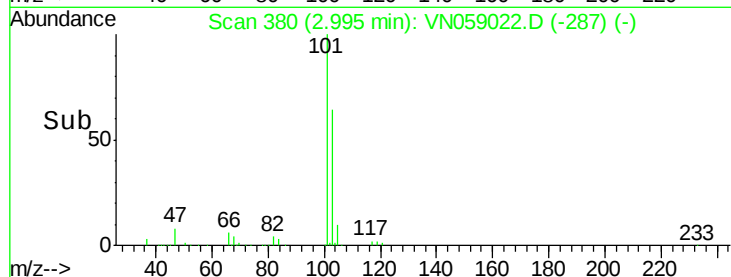
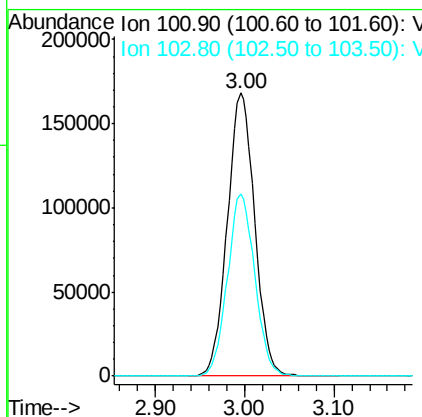
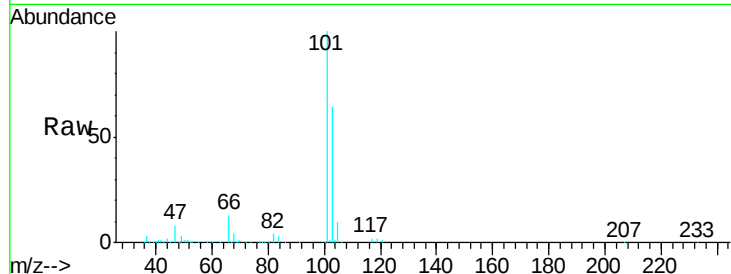
Trichlorofluoromethane
Concen: 46.662 ug/l
RT: 3.00 min Scan# 380
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
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VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	357564		
103	64.3	52.2	78.2	

Manual Integrations
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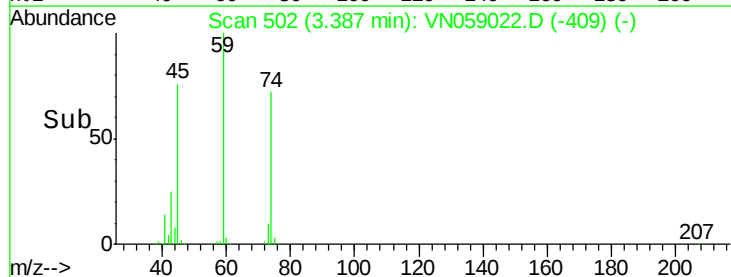
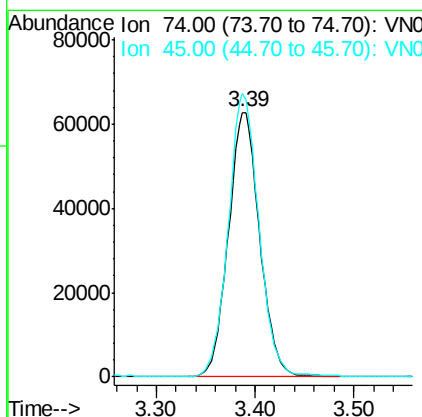
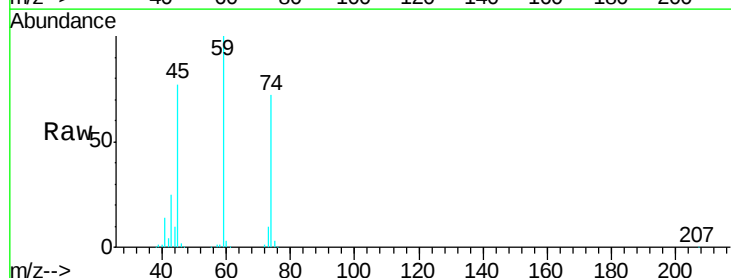
MMDadoda
10/31/2019 3:37:29 PM

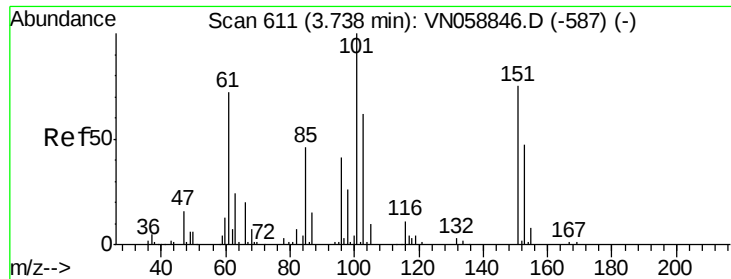


#8

Diethyl Ether
Concen: 52.362 ug/l
RT: 3.39 min Scan# 502
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	138658		
45	104.7	54.9	164.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.293 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

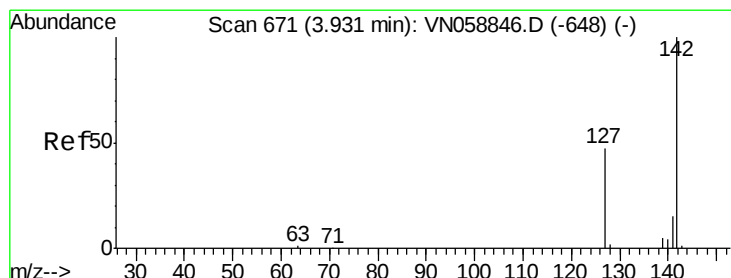
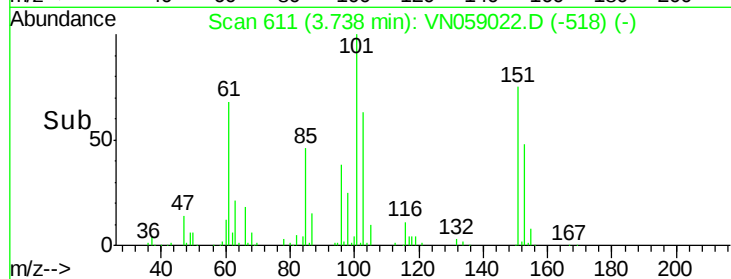
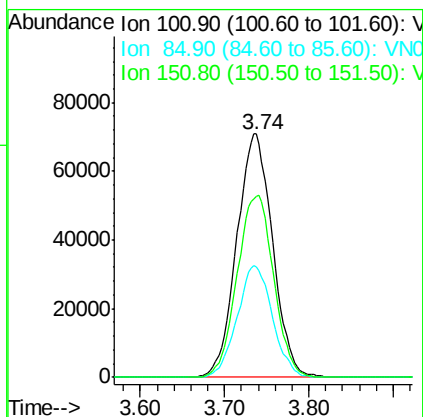
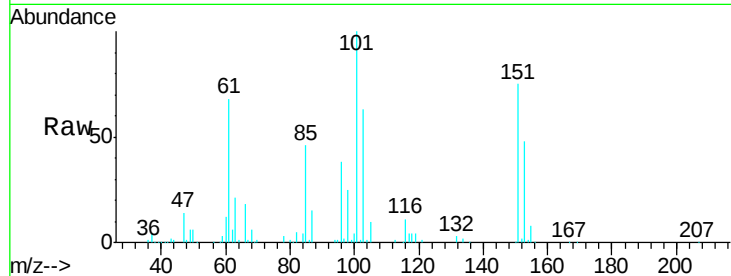
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	101	Resp:	209404
Ion Ratio	Lower	Upper	
101	100		
85	45.3	37.2	55.8
151	76.1	59.9	89.9

Manual Integrations
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#10

Methyl Iodide

Concen: 46.167 ug/l

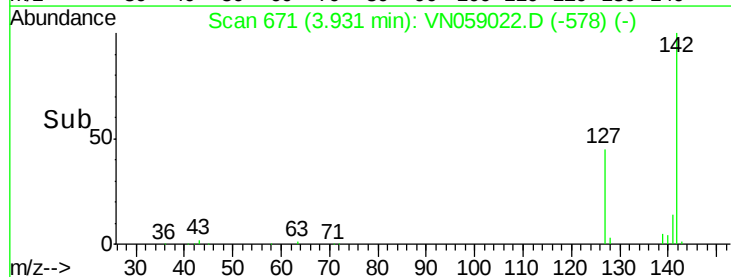
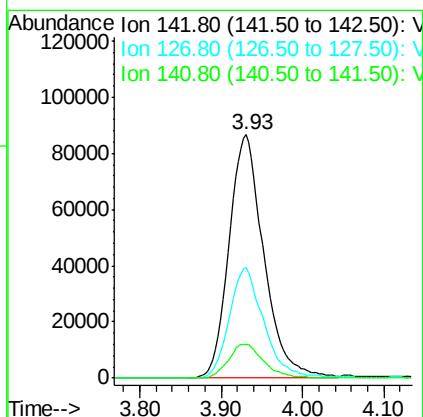
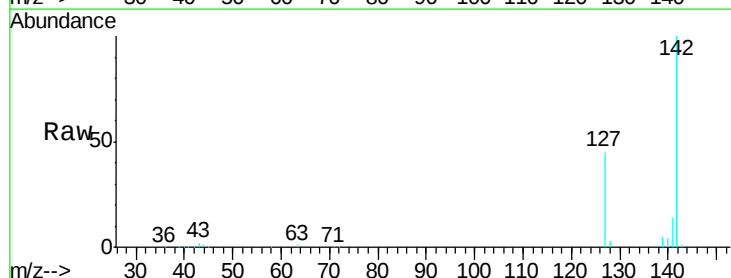
RT: 3.93 min Scan# 671

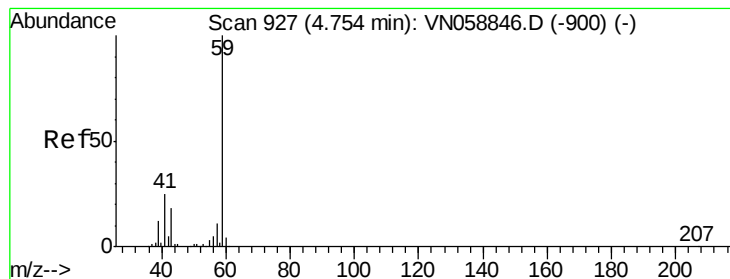
Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Tgt Ion:	142	Resp:	257943
Ion Ratio	Lower	Upper	
142	100		
127	45.0	36.6	54.8
141	14.1	11.4	17.2





#11

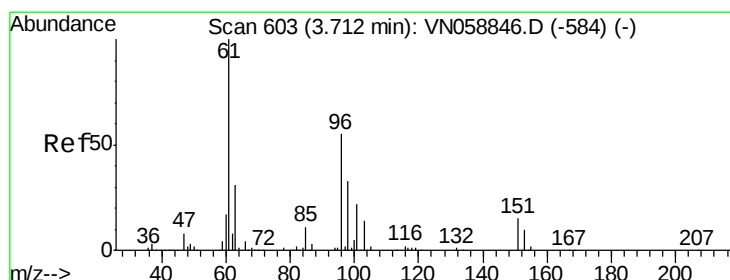
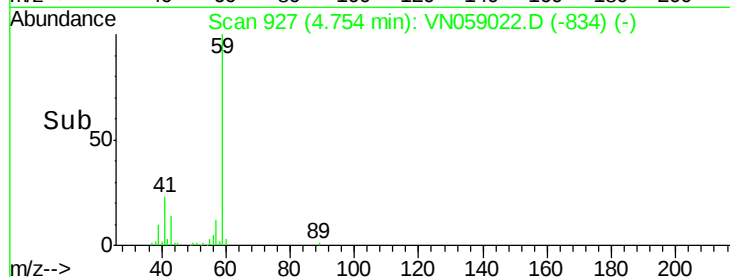
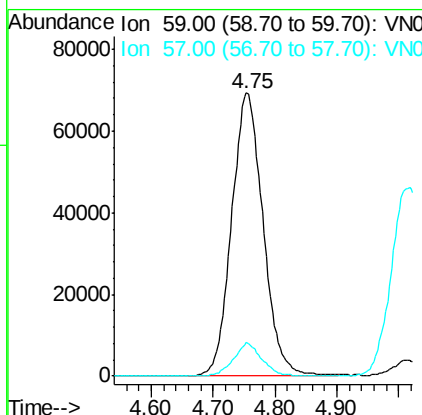
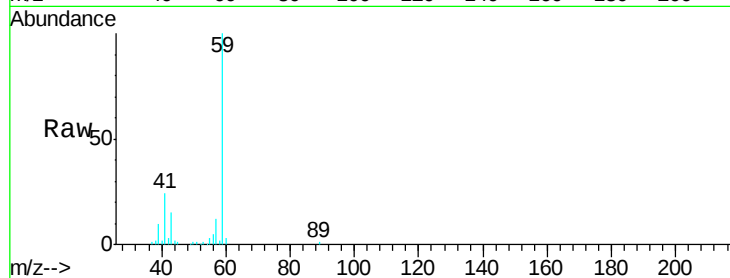
Tert butyl alcohol
Concen: 249.494 ug/l
RT: 4.75 min Scan# 927
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	12.8

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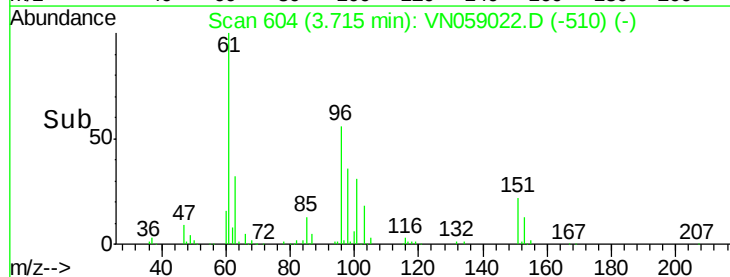
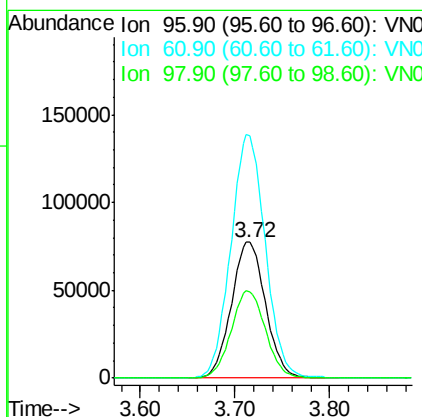
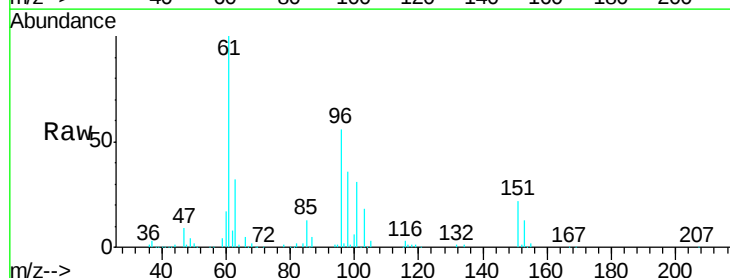
MMDadoda
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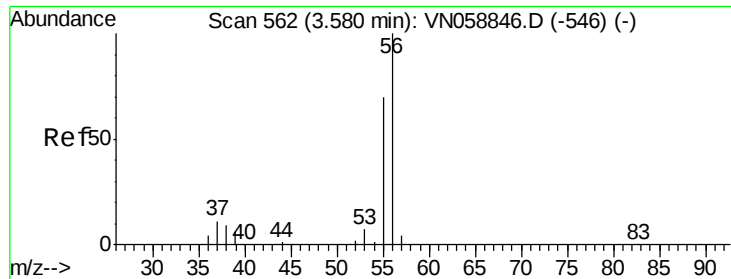


#12

1,1-Dichloroethene
Concen: 48.777 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.2	146.2	219.2
98	63.8	48.7	73.1





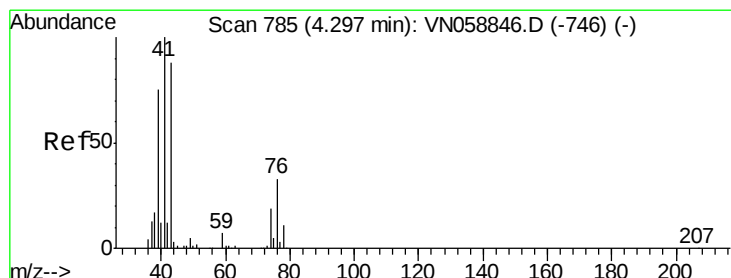
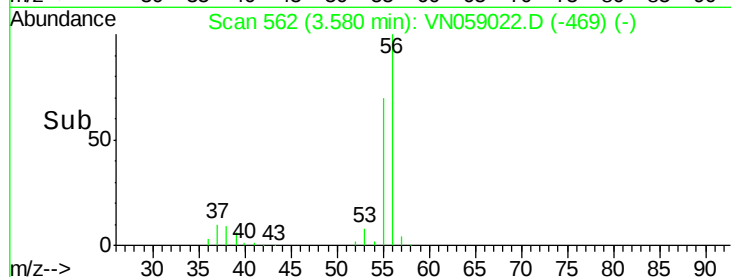
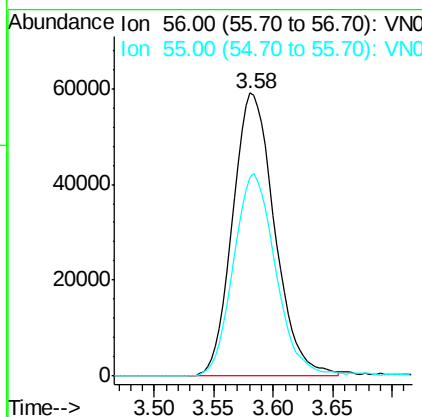
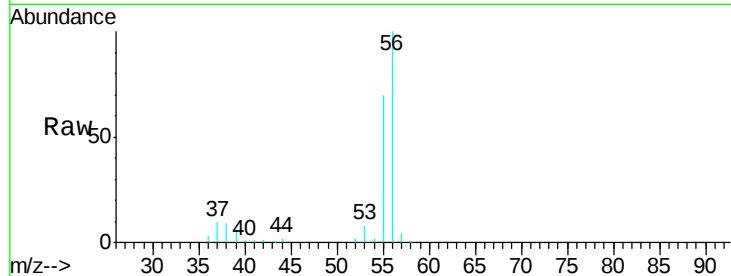
#13
Acrolein
Concen: 214.212 ug/l
RT: 3.58 min Scan# 562
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.6	85.0

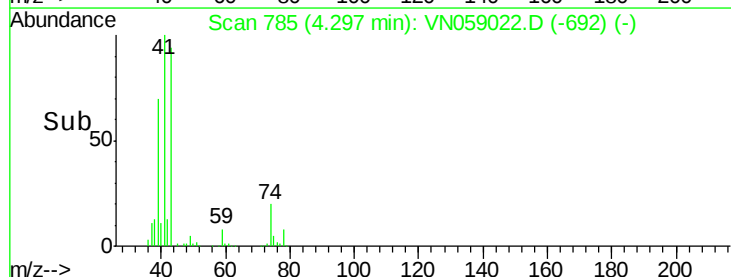
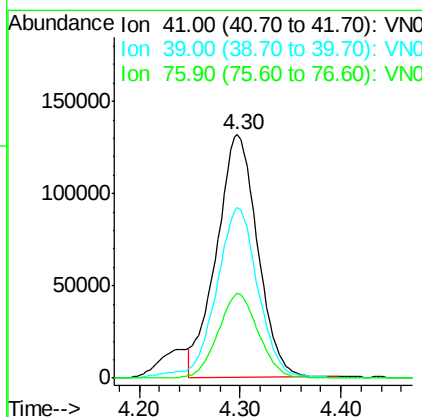
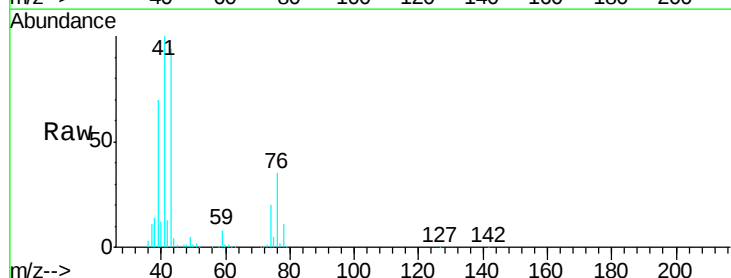
Manual Integrations
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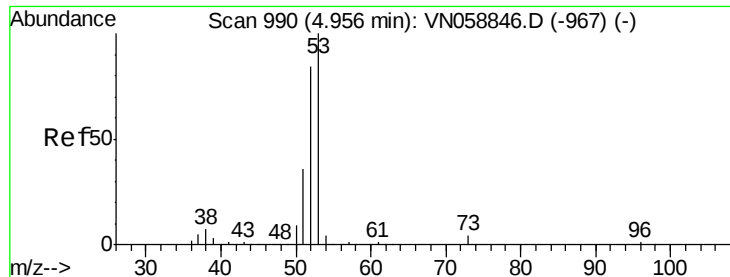
MMDadoda
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#14
Allyl chloride
Concen: 46.319 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
41	100		
39	71.8	55.9	83.9
76	34.2	24.1	36.1





#15

Acrylonitrile

Concen: 267.635 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

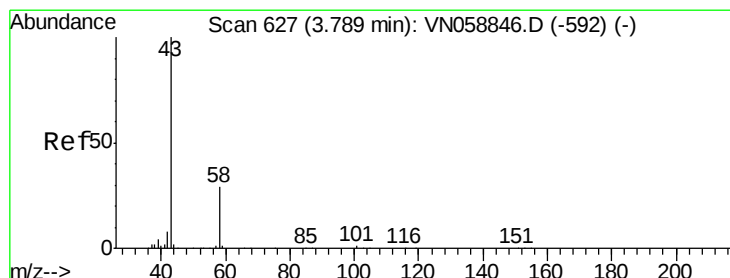
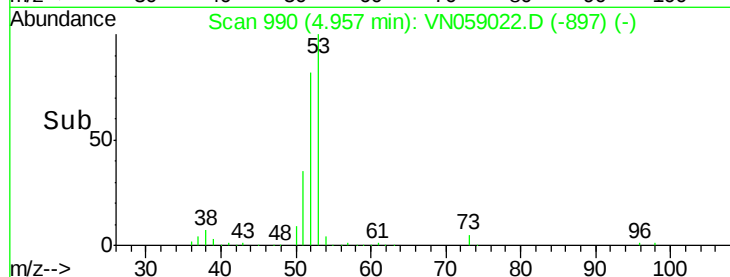
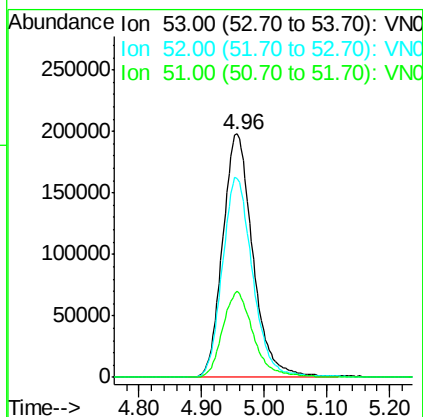
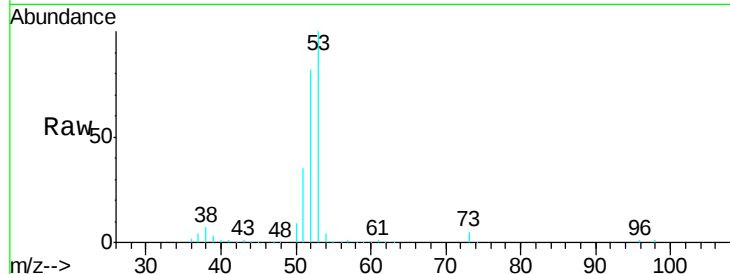
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	53	Resp:	661833
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.6	99.8
51	36.0	29.2	43.8

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#16

Acetone

Concen: 255.512 ug/l

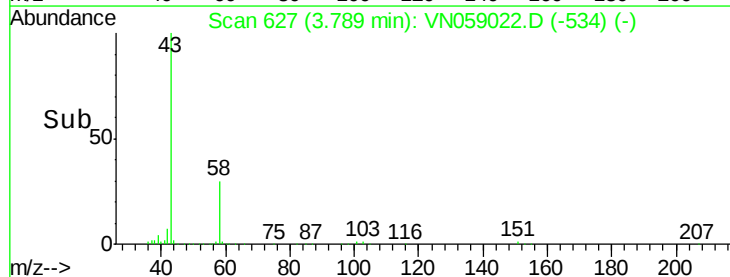
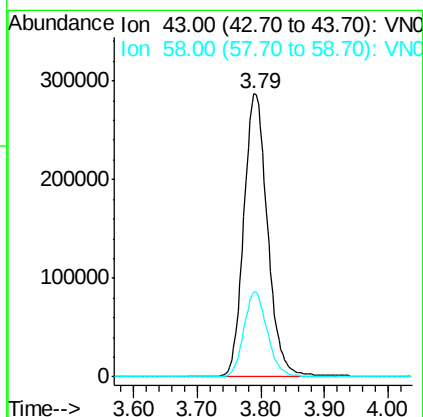
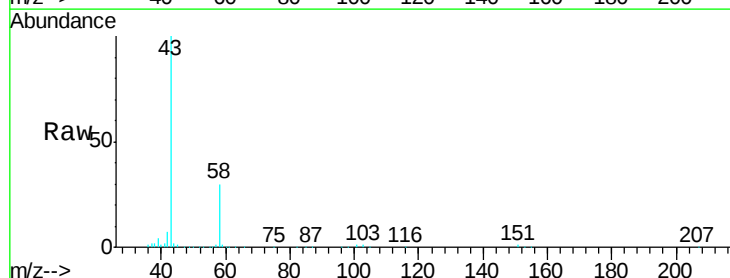
RT: 3.79 min Scan# 627

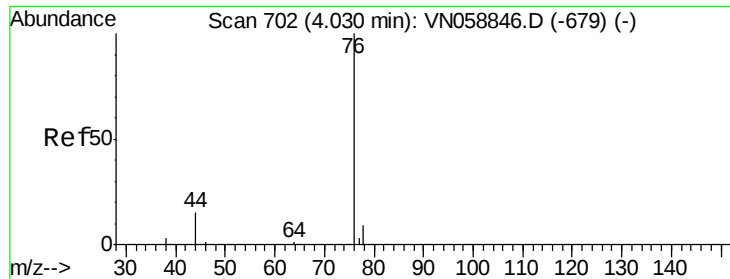
Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Tgt Ion:	43	Resp:	747985
Ion	Ratio	Lower	Upper
43	100		
58	30.1	23.1	34.7





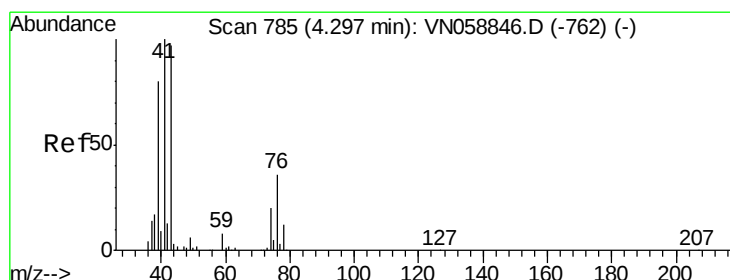
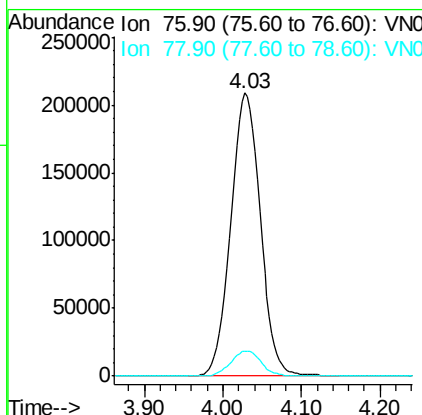
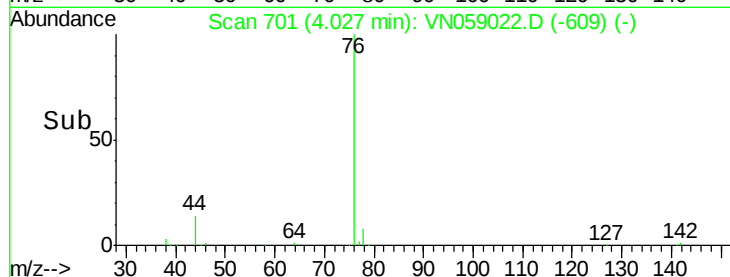
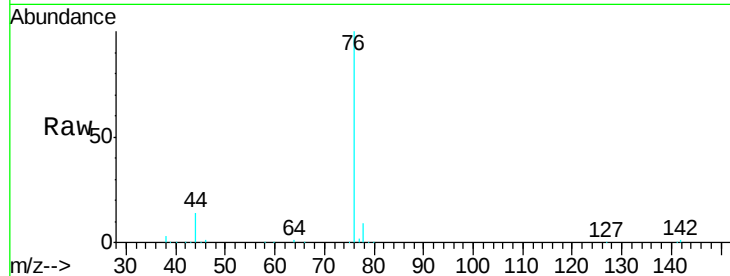
#17
Carbon Disulfide
Concen: 42.644 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 546996
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

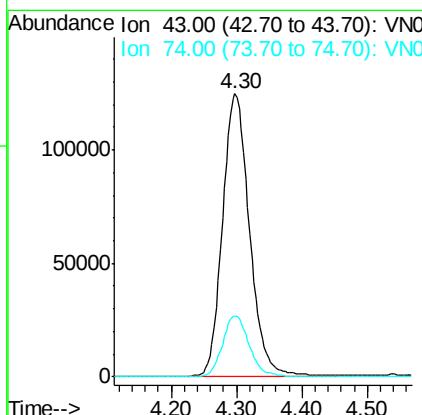
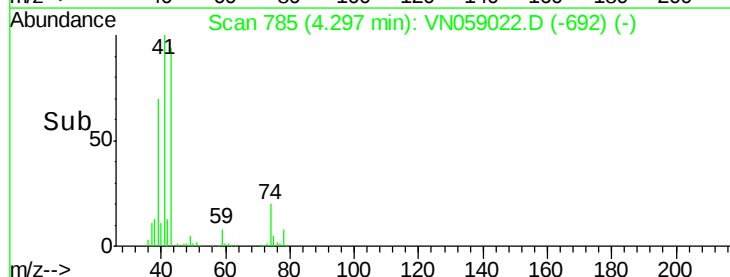
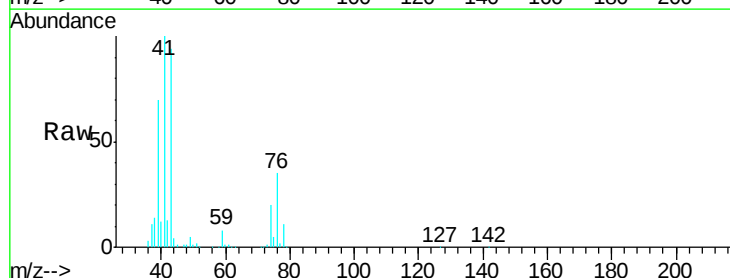
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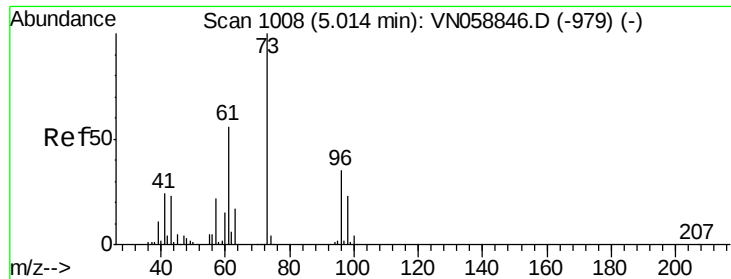
MMDadoda
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#18
Methyl Acetate
Concen: 53.439 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion: 43 Resp: 355662
Ion Ratio Lower Upper
43 100
74 21.5 17.1 25.7





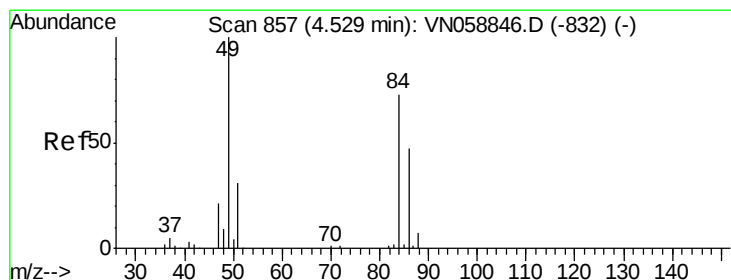
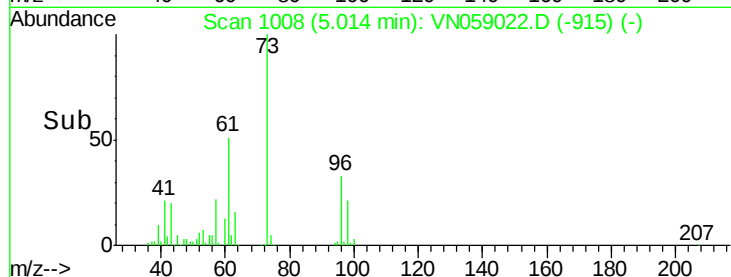
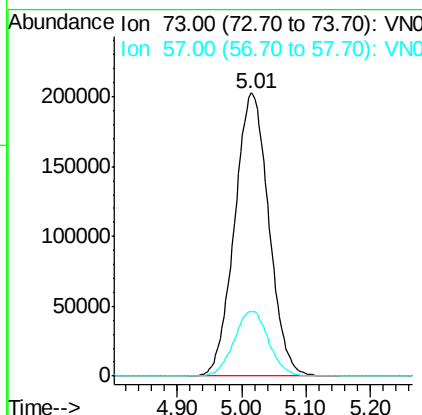
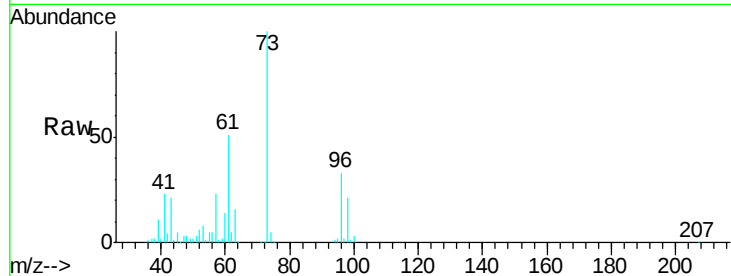
#19
Methyl tert-butyl Ether
Concen: 53.770 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 749714
Ion Ratio Lower Upper
73 100
57 22.7 17.9 26.9

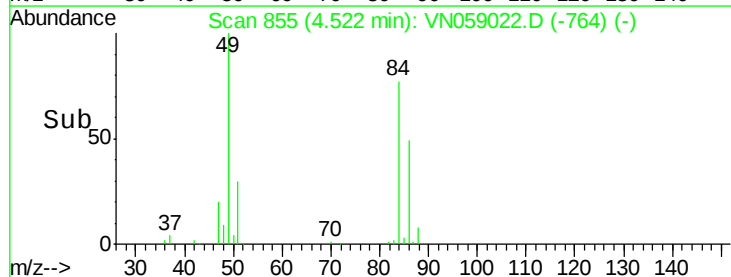
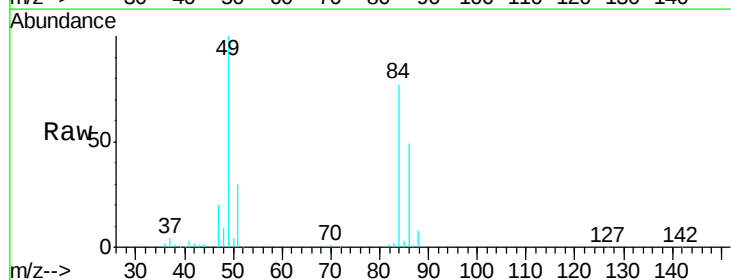
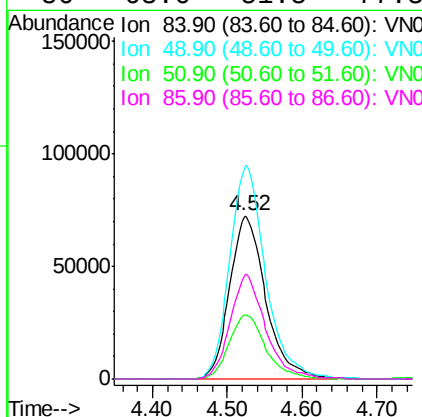
Manual Integrations
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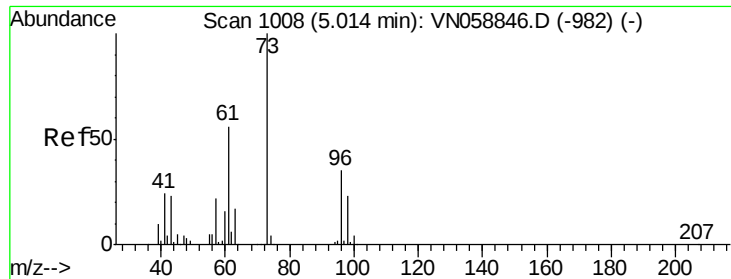
MMDadoda
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#20
Methylene Chloride
Concen: 48.587 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion: 84 Resp: 242866
Ion Ratio Lower Upper
84 100
49 129.2 109.6 164.4
51 39.0 33.8 50.6
86 63.6 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 48.668 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

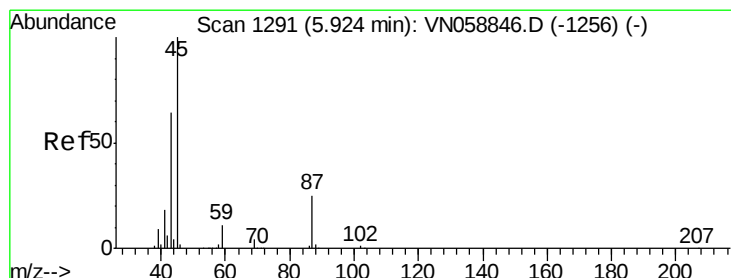
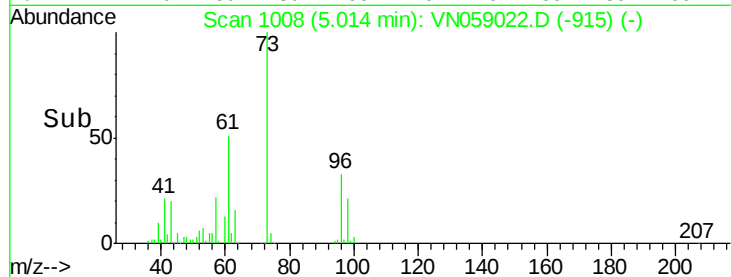
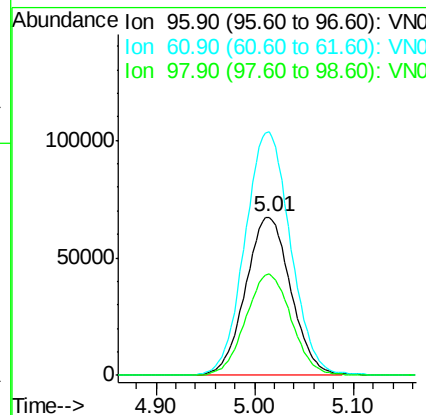
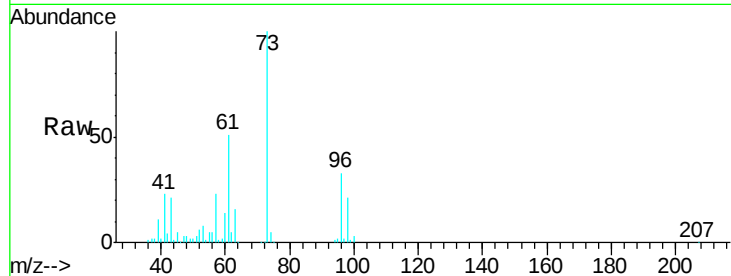
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	214019
Ion	Ratio	Lower	Upper
96	100		
61	153.6	126.7	190.1
98	63.7	52.0	78.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 54.197 ug/l

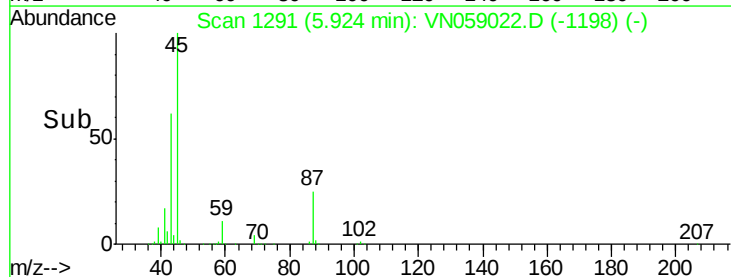
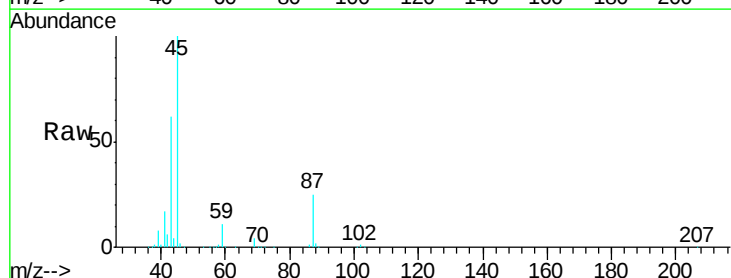
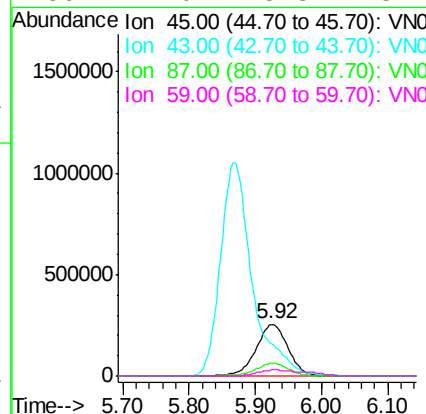
RT: 5.92 min Scan# 1291

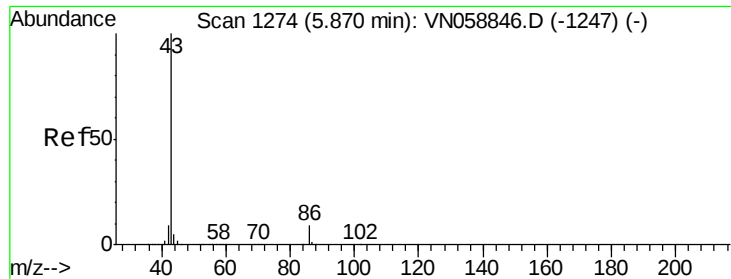
Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Tgt Ion:	45	Resp:	854167
Ion	Ratio	Lower	Upper
45	100		
43	60.7	52.9	79.3
87	24.6	20.2	30.4
59	11.0	8.8	13.2





#23

Vinyl Acetate

Concen: 277.297 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 3511233

Ion Ratio Lower Upper

43 100

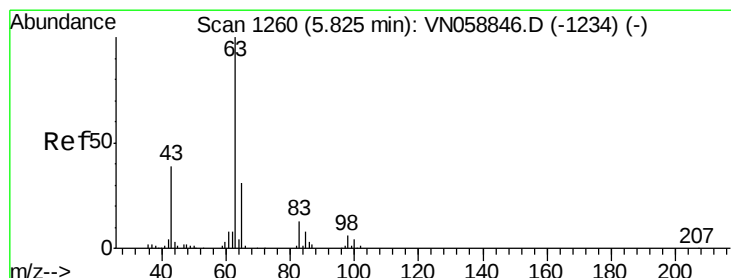
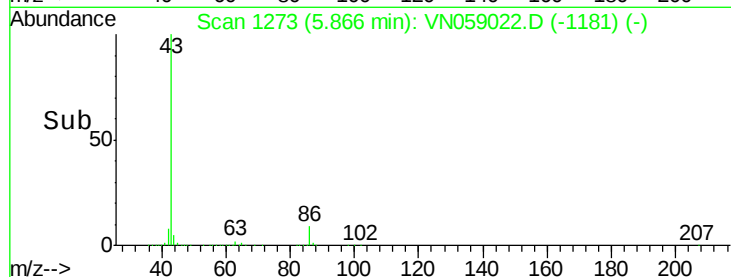
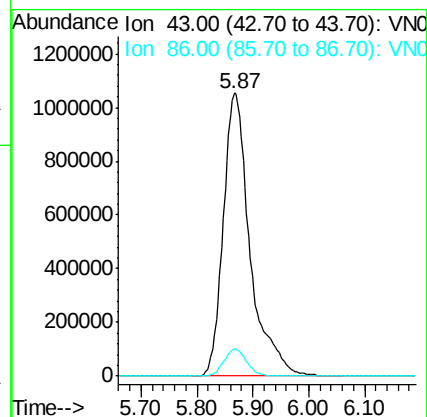
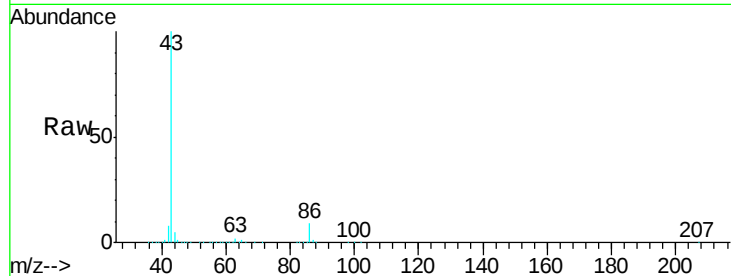
86 9.5 7.2 10.8

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 49.750 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

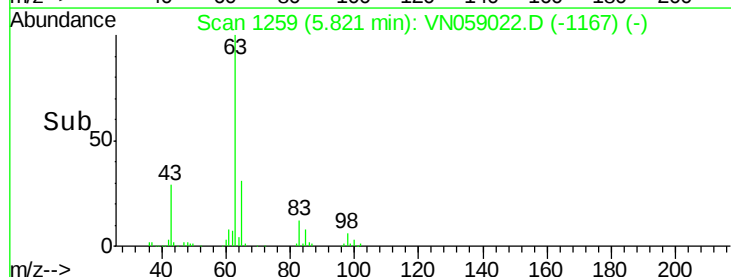
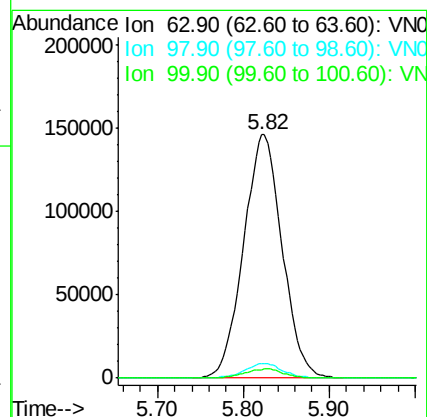
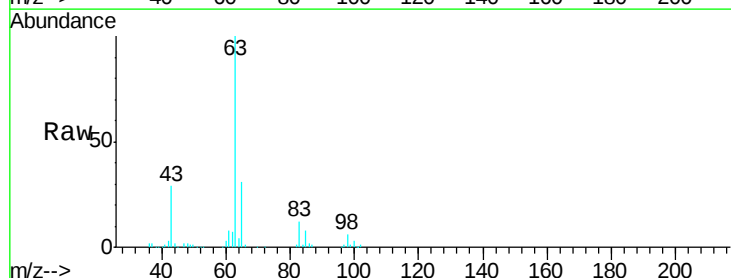
Tgt Ion: 63 Resp: 454643

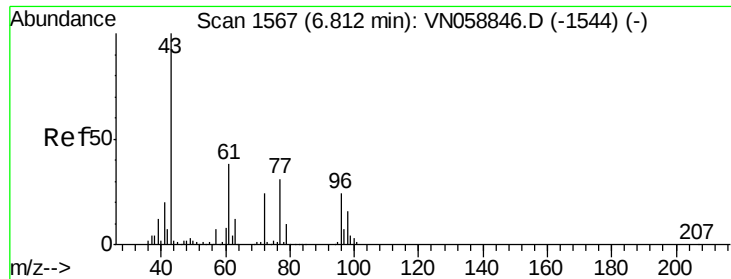
Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.4

100 3.5 1.9 5.7





#25

2-Butanone

Concen: 257.957 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 980252

Ion Ratio Lower Upper

43 100

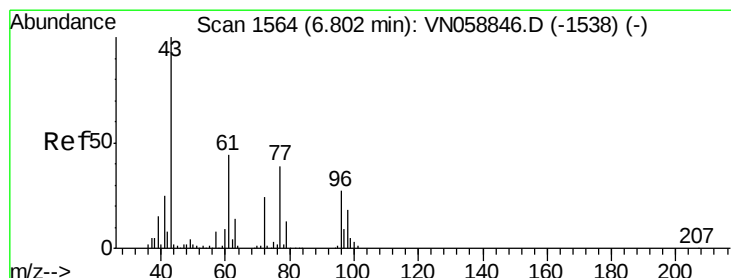
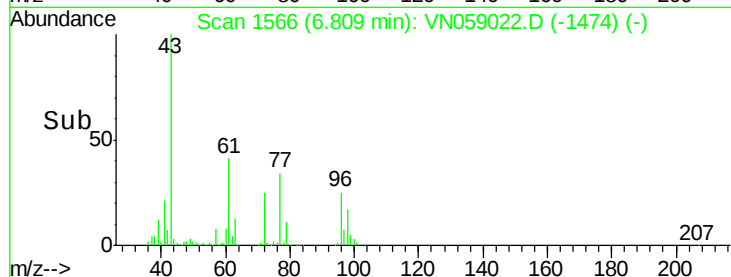
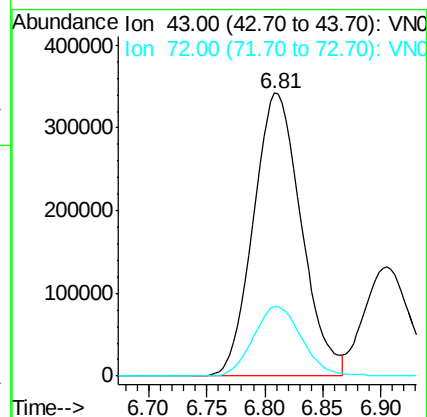
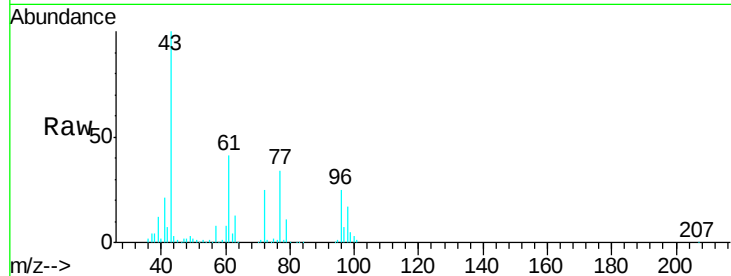
72 24.6 19.1 28.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 50.633 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN059022.D

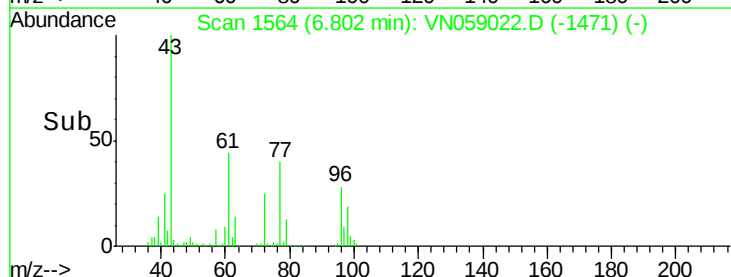
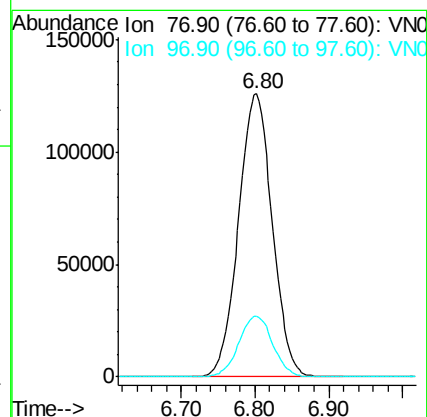
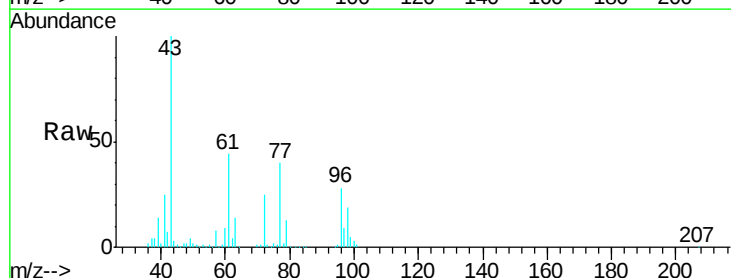
Acq: 30 Oct 2019 12:30

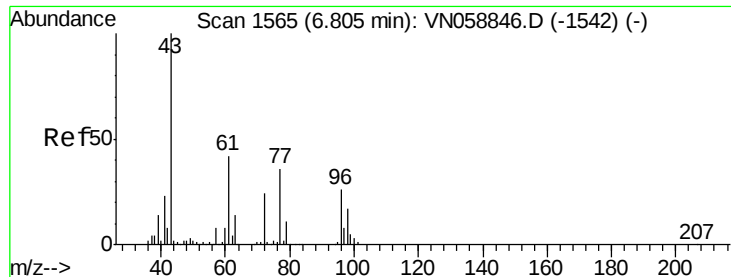
Tgt Ion: 77 Resp: 400239

Ion Ratio Lower Upper

77 100

97 21.5 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 50.904 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

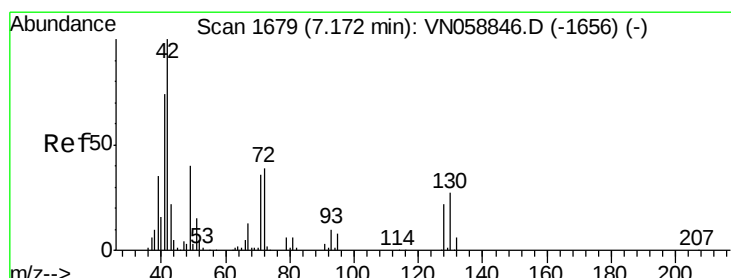
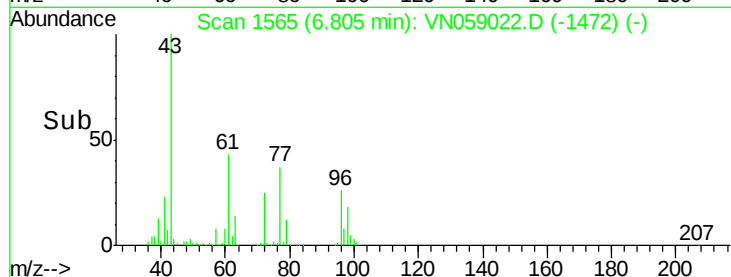
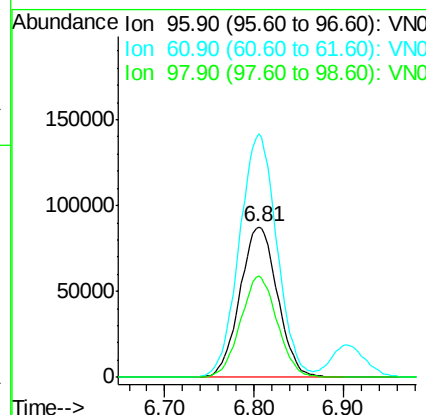
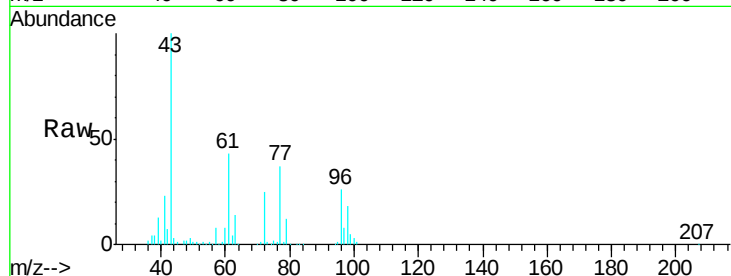
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	255716
Ion Ratio	Lower	Upper	
96	100		
61	161.6	0.0	325.0
98	65.7	0.0	128.0

Manual Integrations
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#28

Bromochloromethane

Concen: 50.062 ug/l

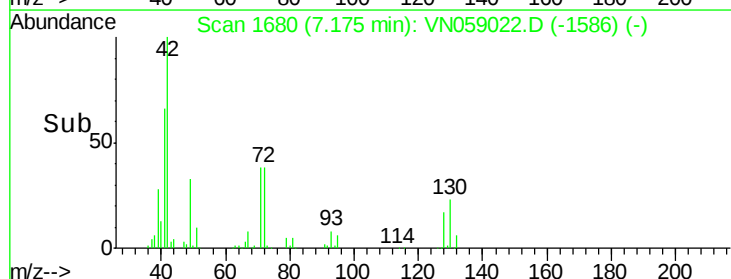
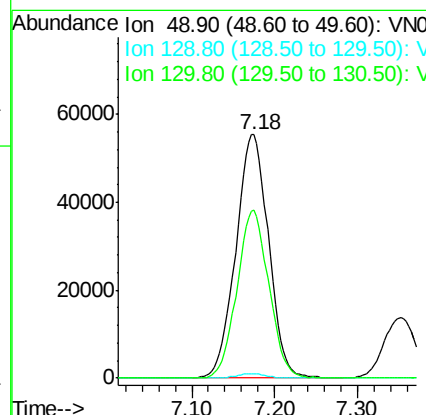
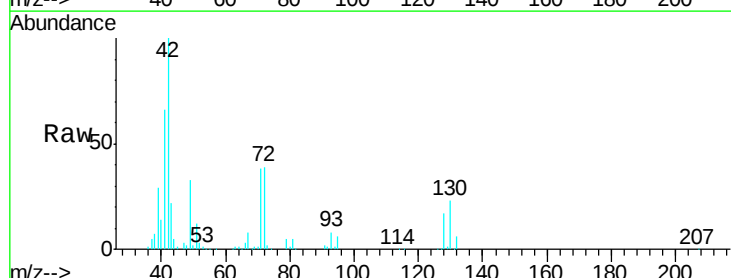
RT: 7.18 min Scan# 1680

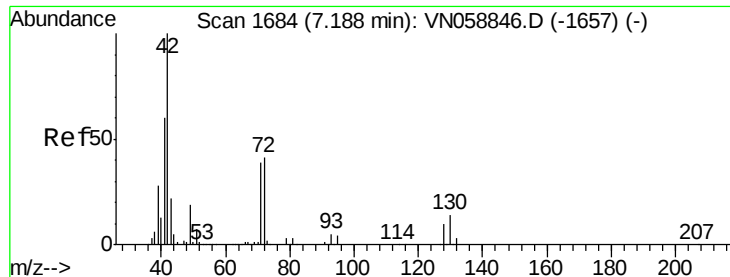
Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Tgt Ion:	49	Resp:	152366
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	3.2
130	67.0	53.5	80.3





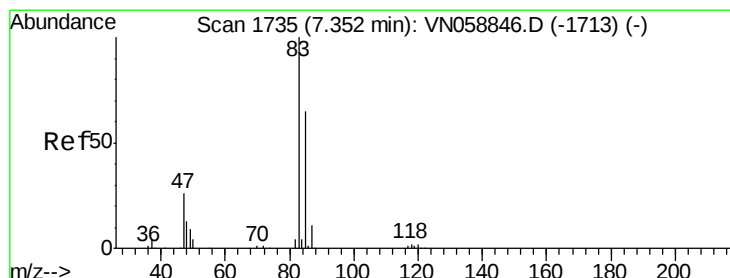
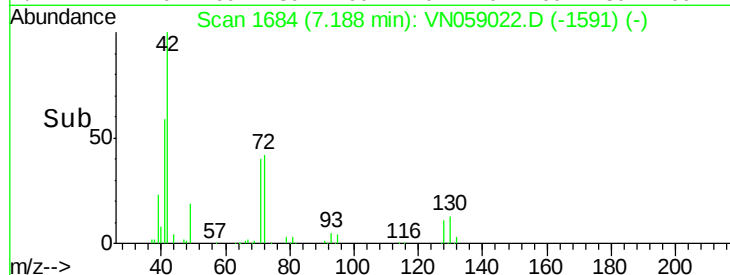
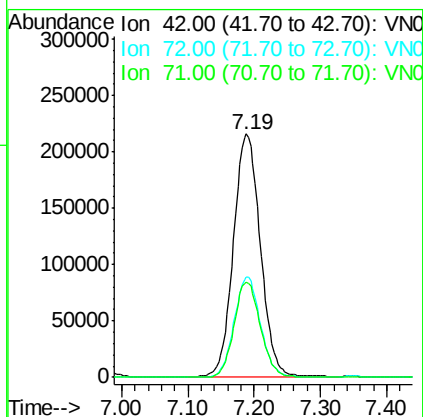
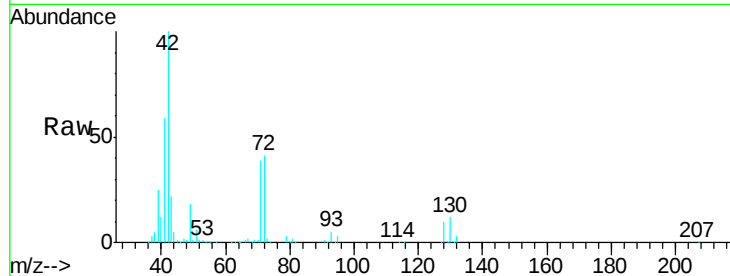
#29
Tetrahydrofuran
Concen: 262.028 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.2	48.2
71	38.4	30.6	45.8

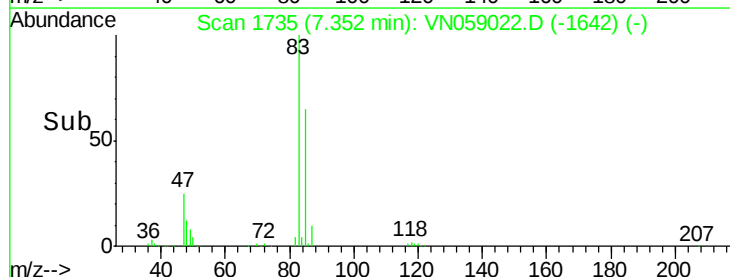
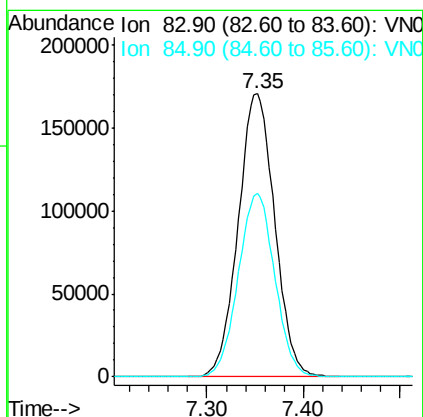
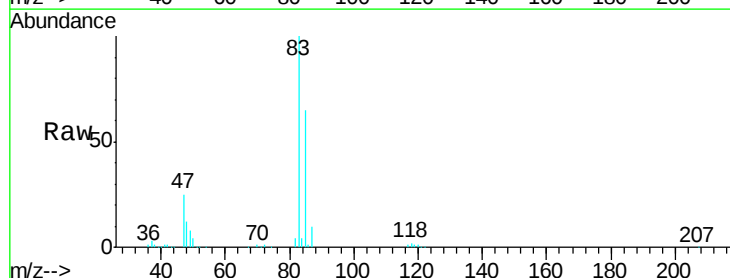
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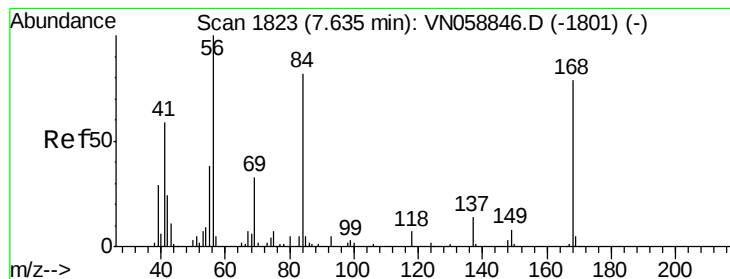
MMDadoda
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#30
Chloroform
Concen: 48.737 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.9	77.9





#31

Cyclohexane

Concen: 45.681 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 388914

Ion Ratio Lower Upper

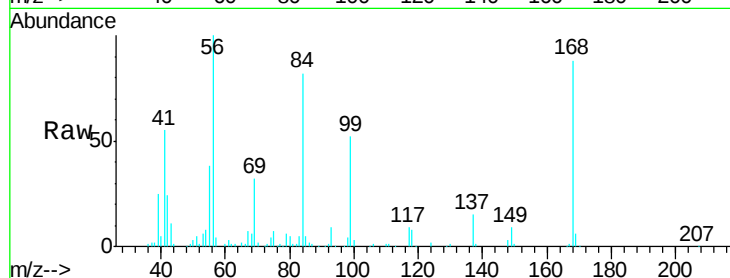
56 100

69 32.4 26.2 39.4

84 81.0 65.6 98.4

Manual Integrations
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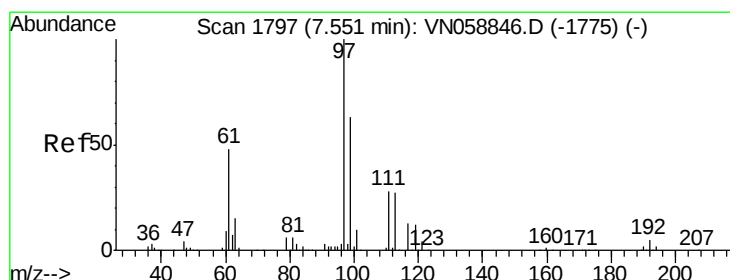
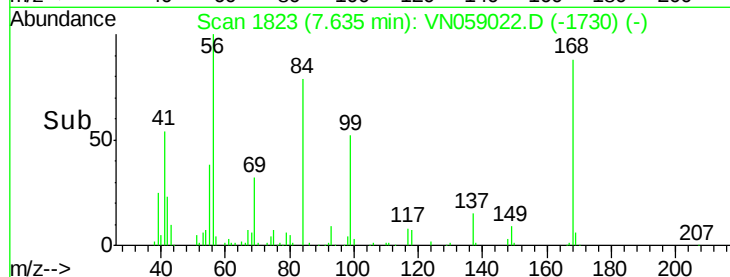
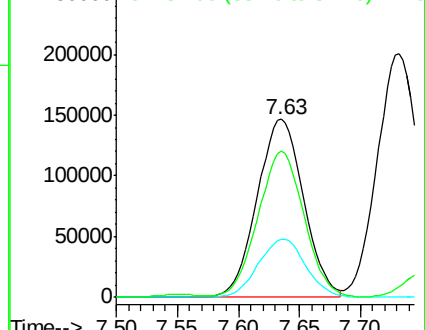
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 48.928 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

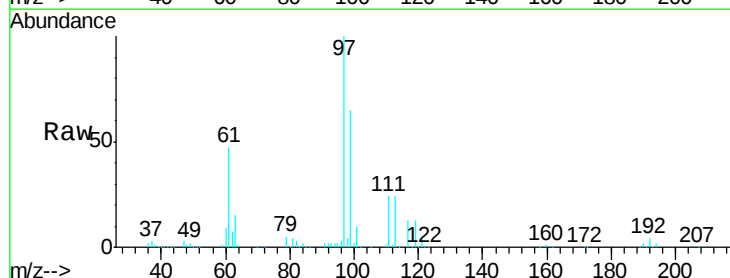
Tgt Ion: 97 Resp: 378057

Ion Ratio Lower Upper

97 100

99 65.3 51.0 76.4

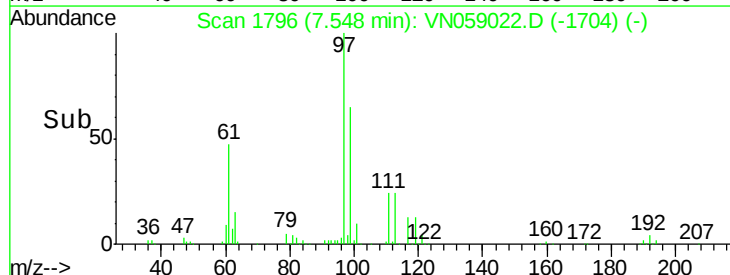
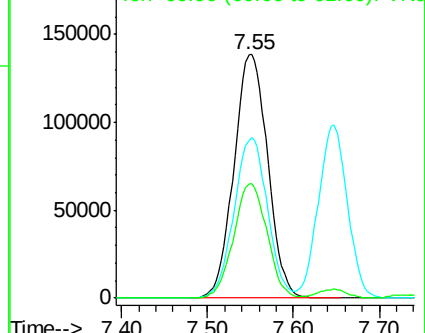
61 46.5 38.6 58.0

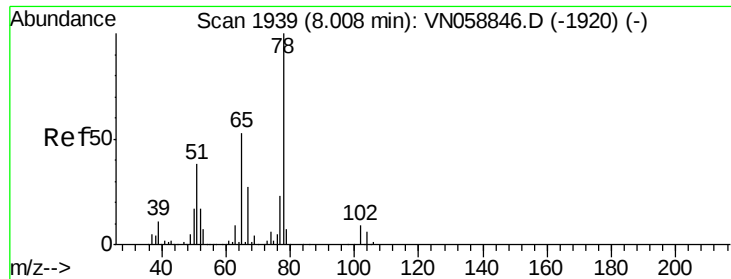


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





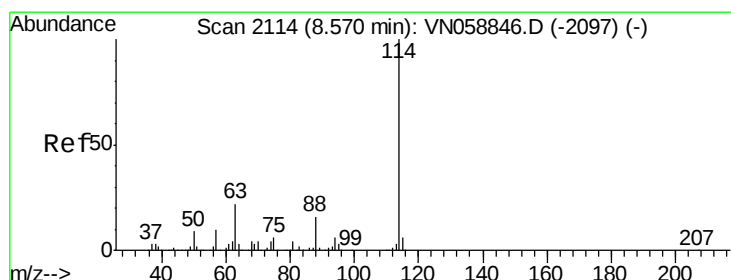
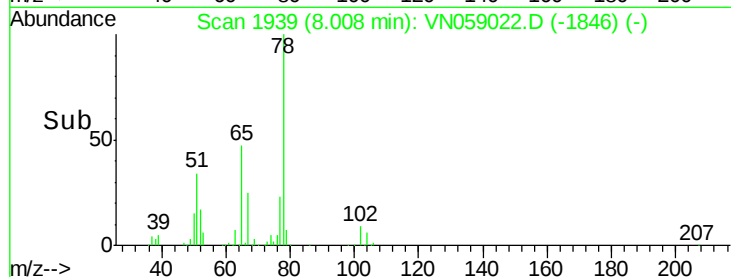
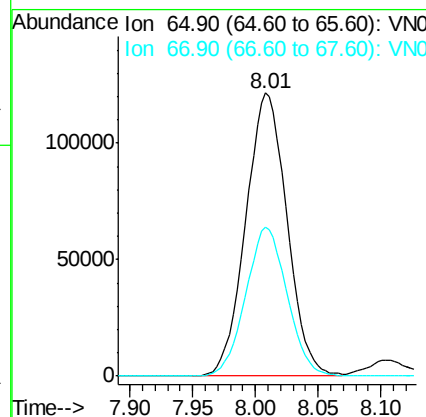
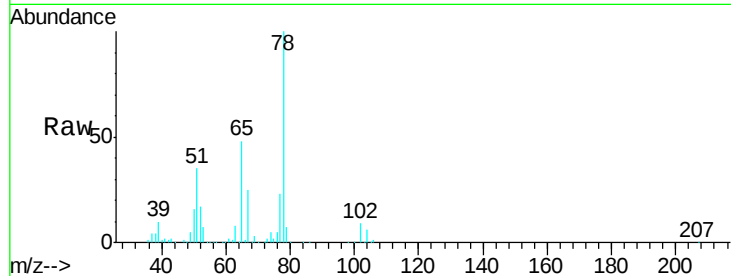
#33
 1,2-Dichloroethane-d4
 Concen: 47.042 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059022.D
 Acq: 30 Oct 2019 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 65 Resp: 278688
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.2

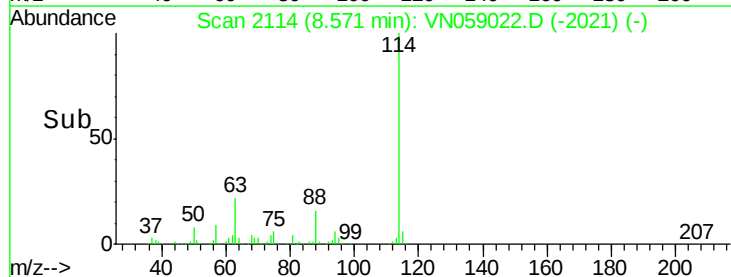
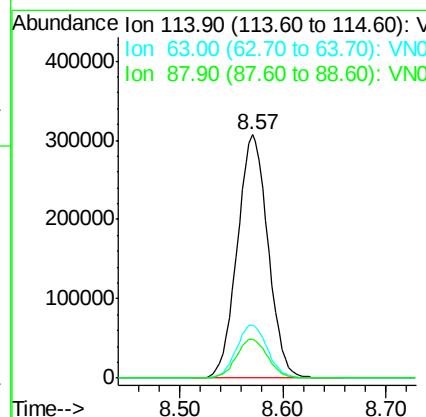
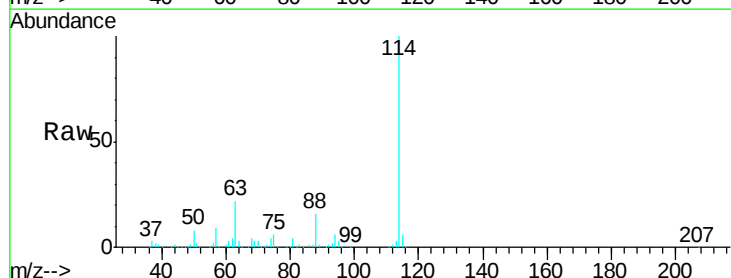
Manual Integrations
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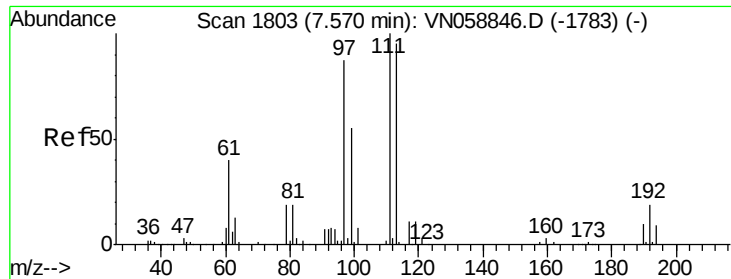
MMDadoda
 10/31/2019 3:37:29 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059022.D
 Acq: 30 Oct 2019 12:30

Tgt Ion: 114 Resp: 636738
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.4
 88 16.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.296 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

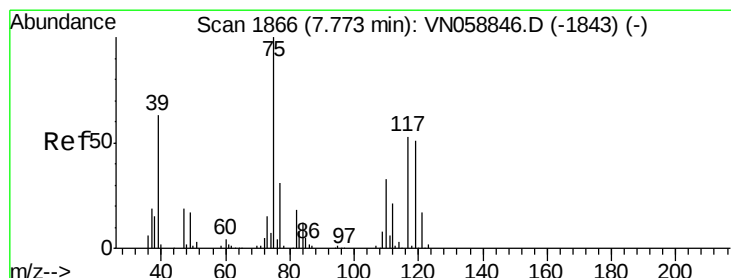
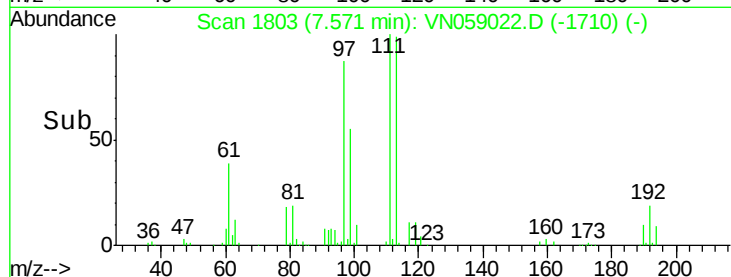
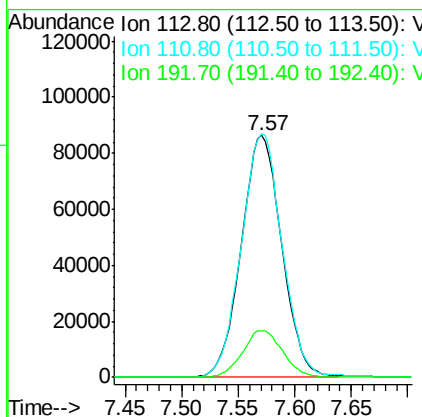
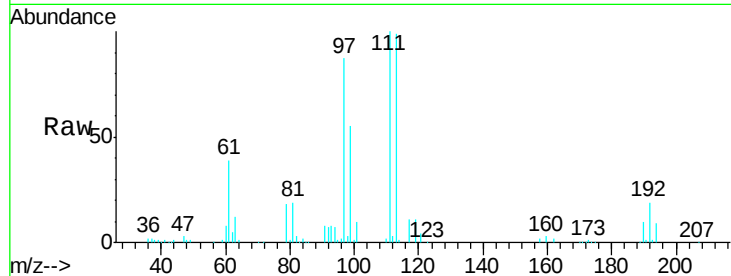
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	113	Resp:	214745
Ion Ratio	Lower	Upper	
113	100		
111	102.2	82.0	123.0
192	19.3	15.0	22.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 51.432 ug/l

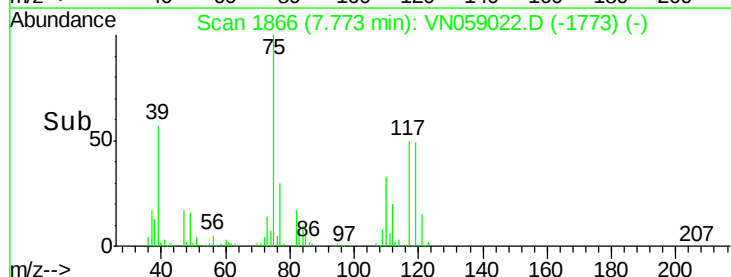
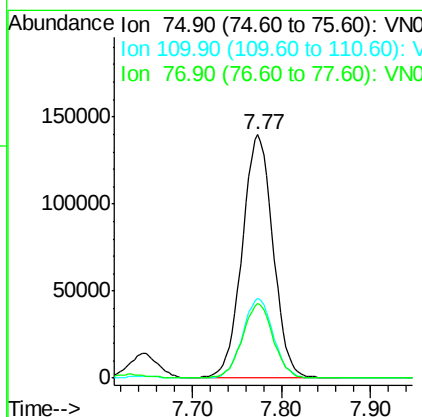
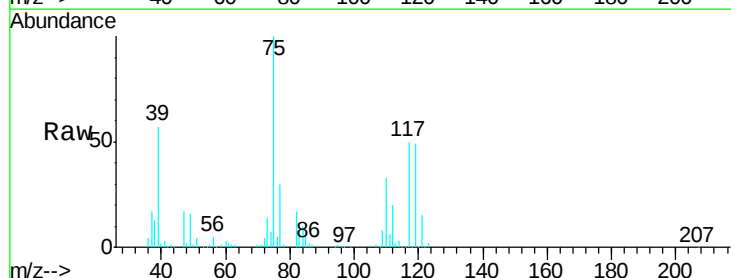
RT: 7.77 min Scan# 1866

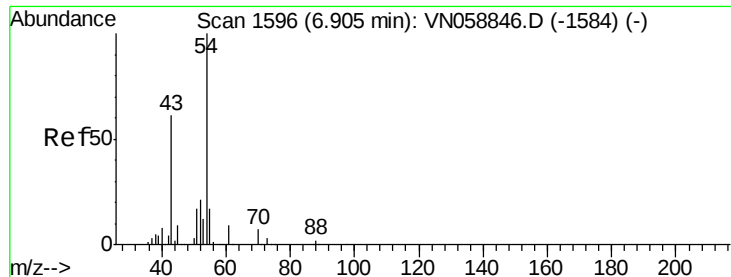
Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Tgt Ion:	75	Resp:	335278
Ion Ratio	Lower	Upper	
75	100		
110	32.6	16.3	48.9
77	30.8	24.6	36.8





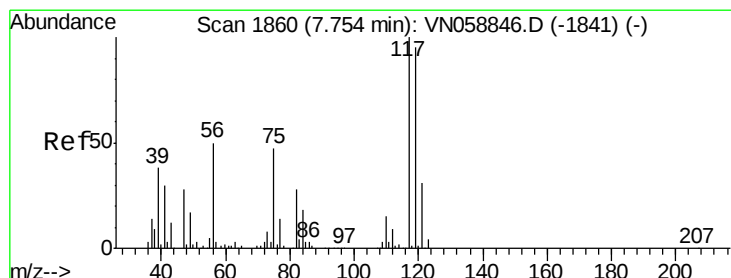
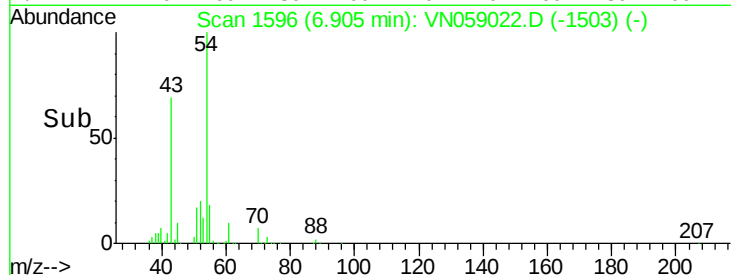
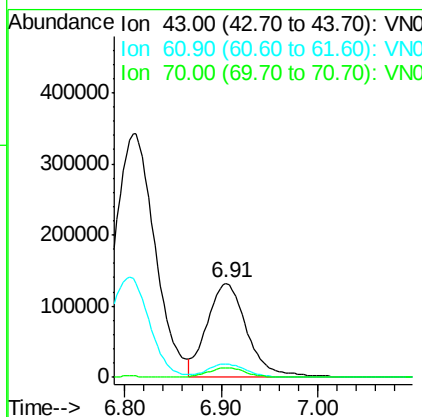
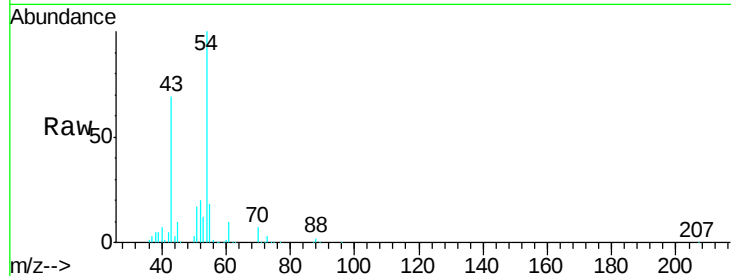
#37
Ethyl Acetate
Concen: 52.499 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.5	15.7
70	9.9	7.6	11.4

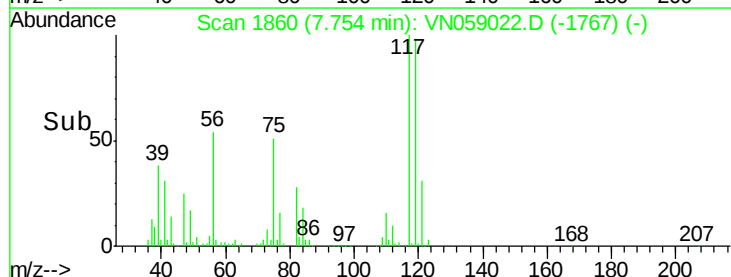
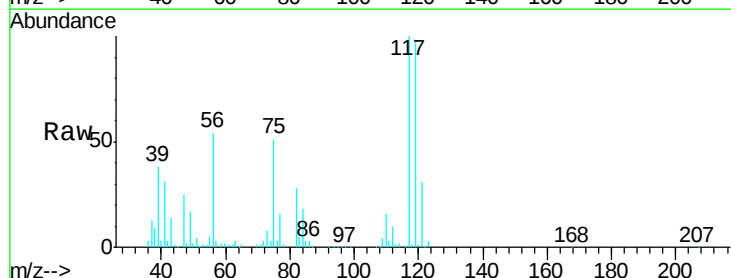
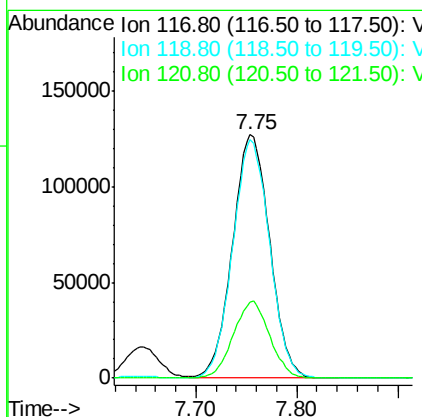
Manual Integrations
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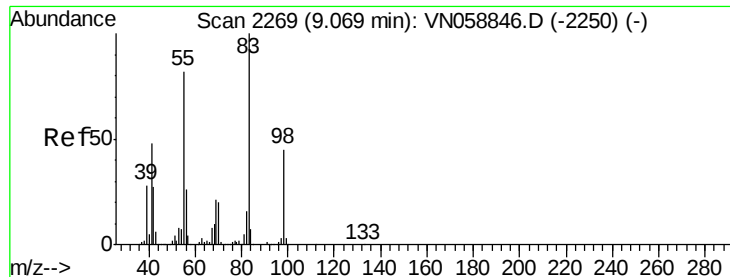
MMDadoda
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#38
Carbon Tetrachloride
Concen: 48.557 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.7	113.5
121	31.2	25.0	37.6





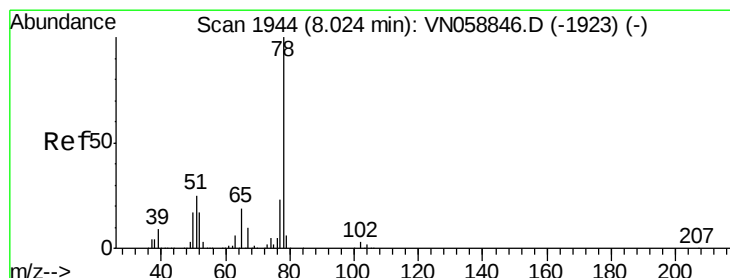
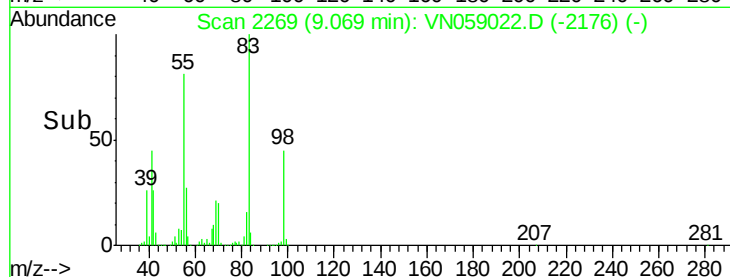
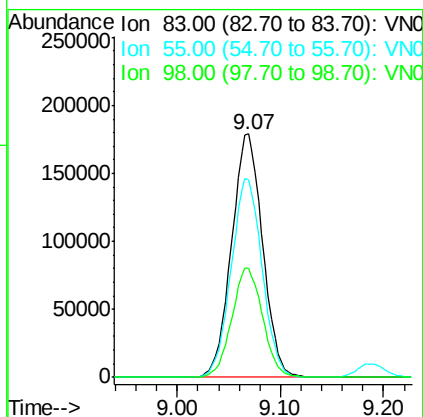
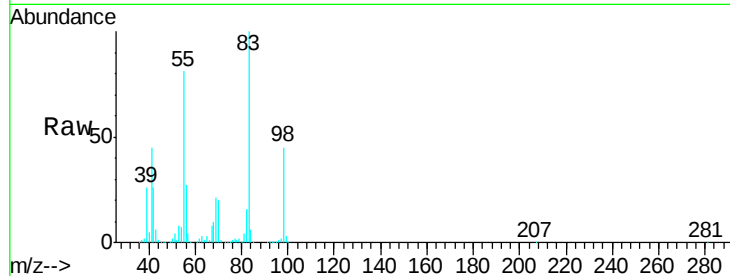
#39
Methylcyclohexane
Concen: 51.212 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
55	81.3	65.5	98.3
98	44.7	35.7	53.5

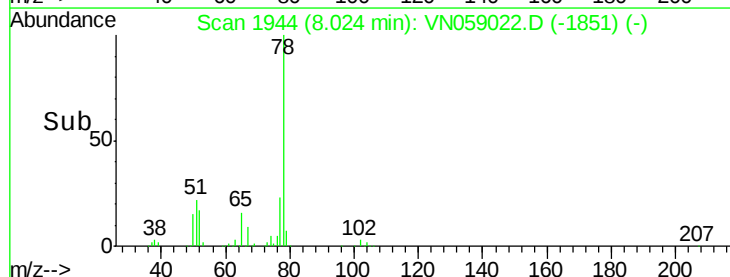
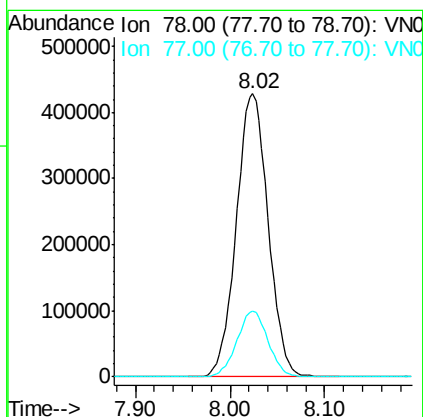
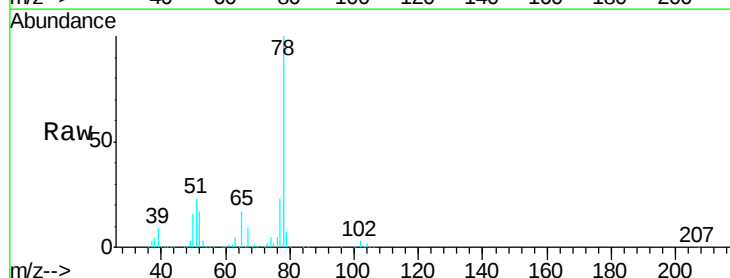
Manual Integrations
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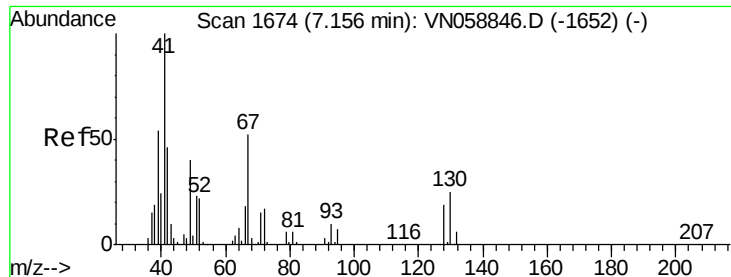
MMDadoda
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#40
Benzene
Concen: 52.294 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.2	27.2





#41

Methacrylonitrile

Concen: 52.521 ug/l

RT: 7.15 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 166153
Ion Ratio Lower Upper

41 100

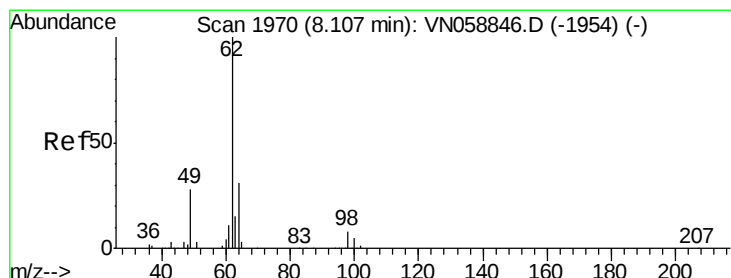
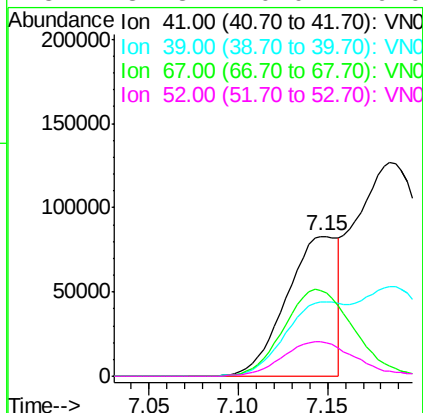
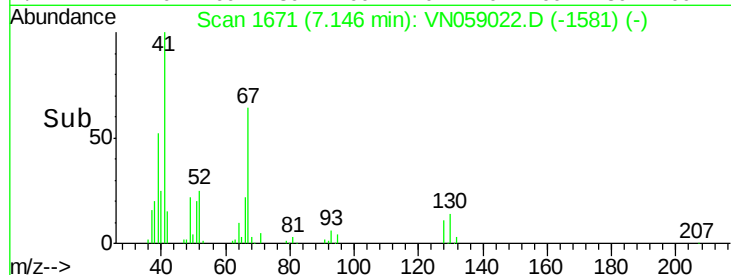
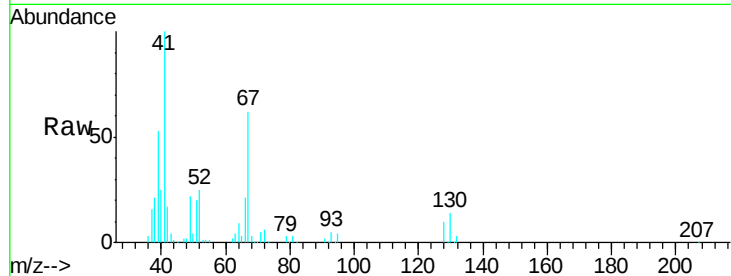
39 63.9 0.0 0.0#

67 84.7 0.0 0.0#

52 34.3 0.0 0.0#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 49.325 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. 0.00 min

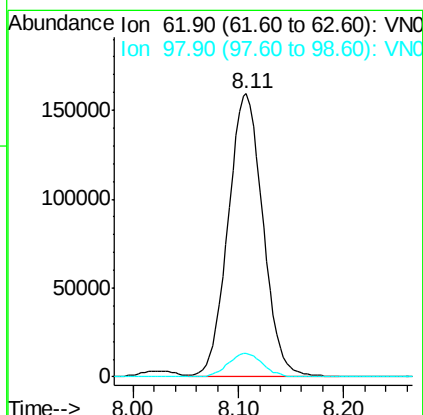
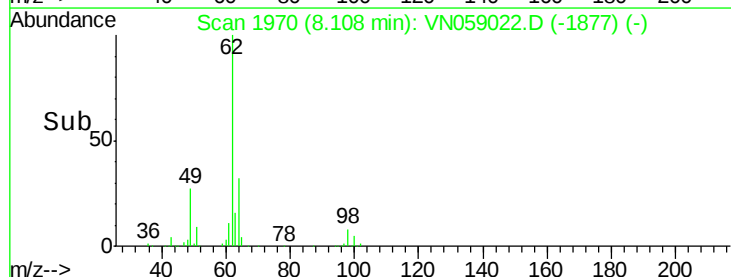
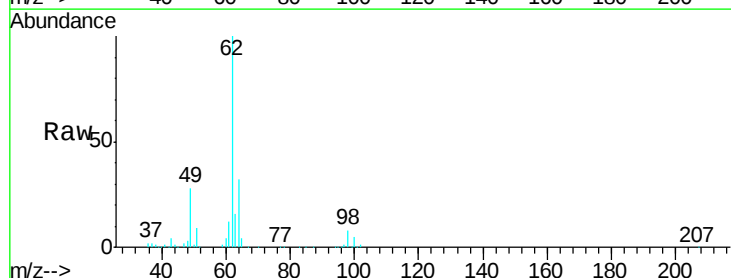
Lab File: VN059022.D

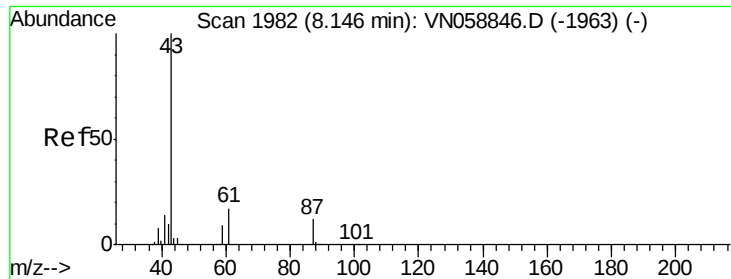
Acq: 30 Oct 2019 12:30

Tgt Ion: 62 Resp: 363722
Ion Ratio Lower Upper

62 100

98 8.3 0.0 16.2





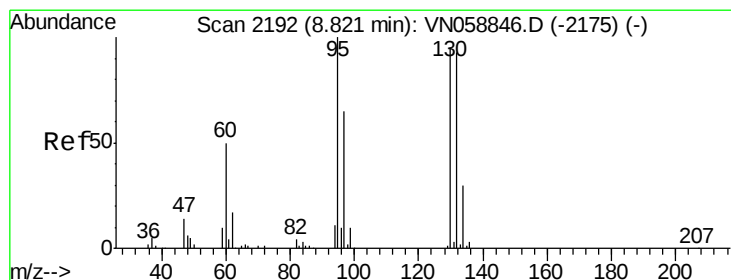
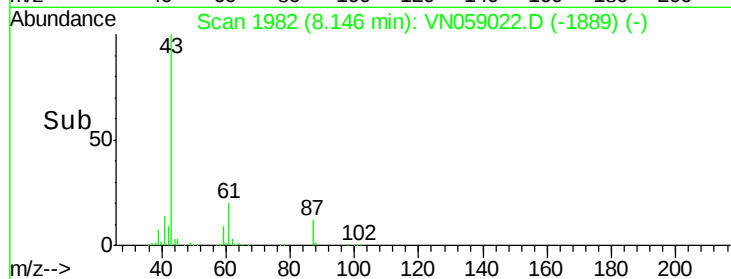
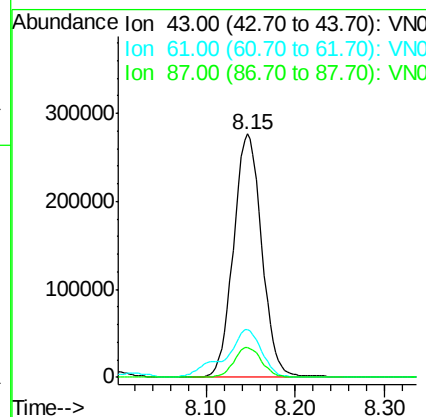
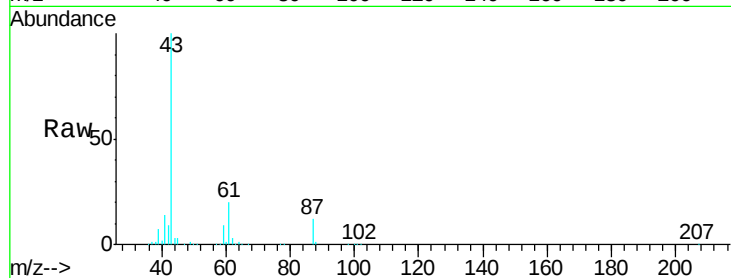
#43
Isopropyl Acetate
Concen: 53.154 ug/l
RT: 8.15 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	25.4	20.2	30.2
87	12.1	9.5	14.3

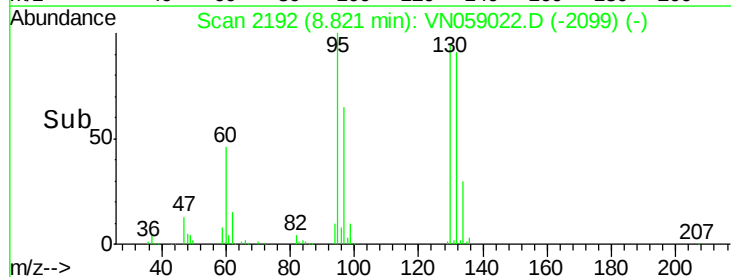
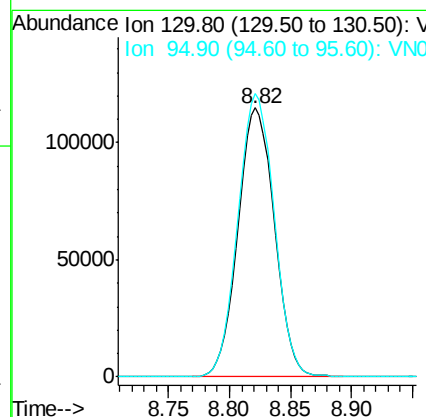
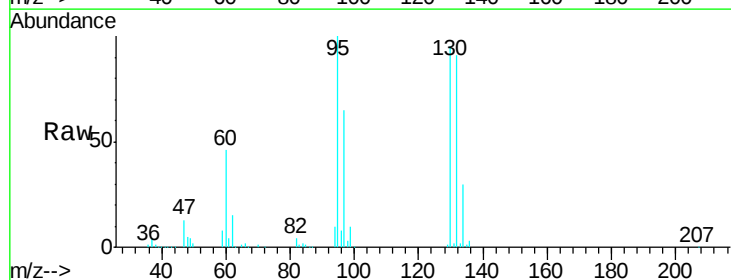
Manual Integrations
APPROVED

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10/31/2019 3:37:29 PM



#44
Trichloroethene
Concen: 51.138 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	209.6





#45

1,2-Dichloropropane

Concen: 53.041 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 278422

Ion Ratio Lower Upper

63 100

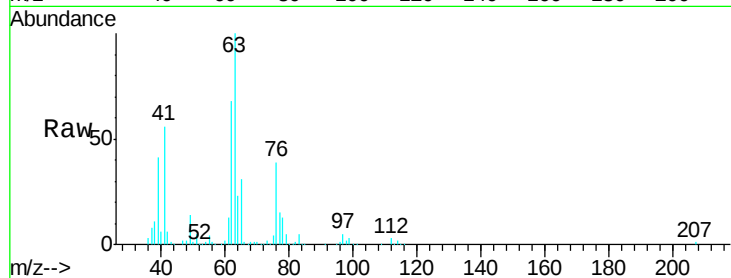
65 30.8 24.5 36.7

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.10

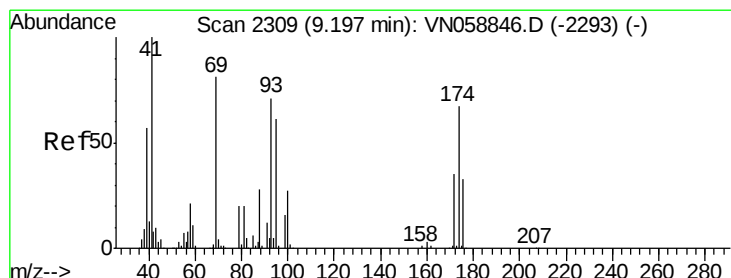
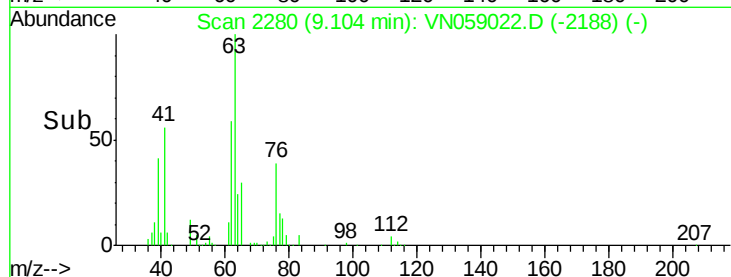
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 50.828 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

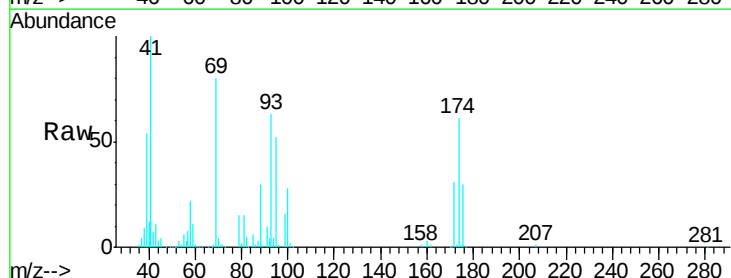
Tgt Ion: 93 Resp: 168667

Ion Ratio Lower Upper

93 100

95 82.7 67.6 101.4

174 96.4 74.1 111.1



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

9.19

100000

80000

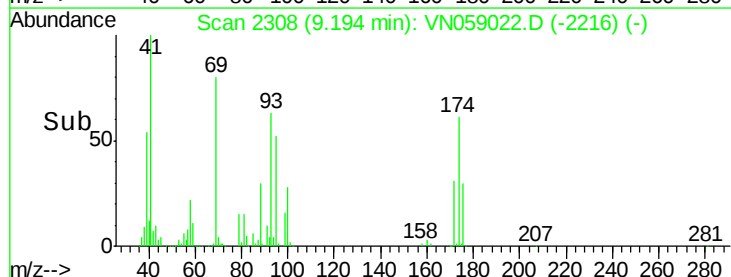
60000

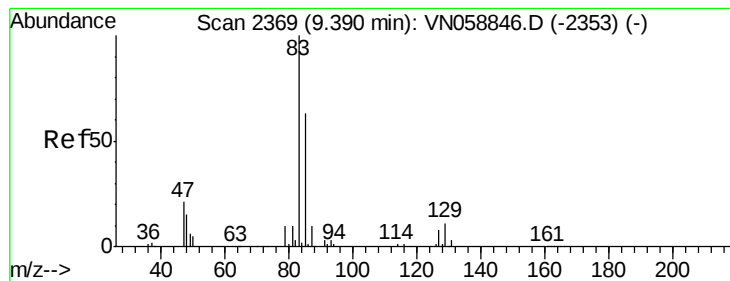
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 52.079 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

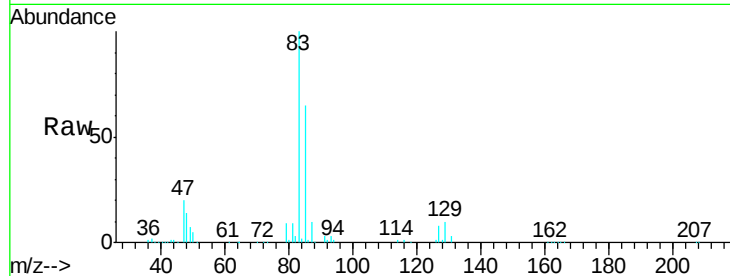
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	83	Resp:	356191
Ion Ratio	Lower	Upper	
83	100		
85	64.5	50.6	75.8
127	8.3	6.5	9.7

Manual Integrations
APPROVED

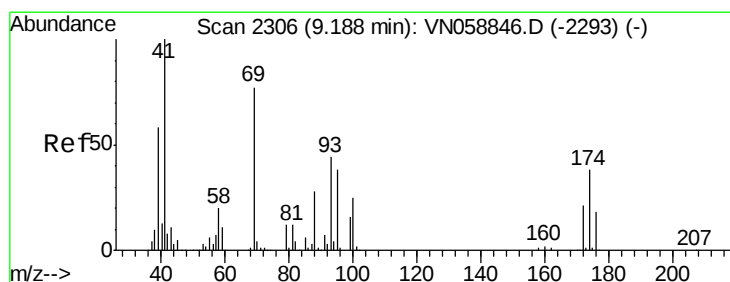
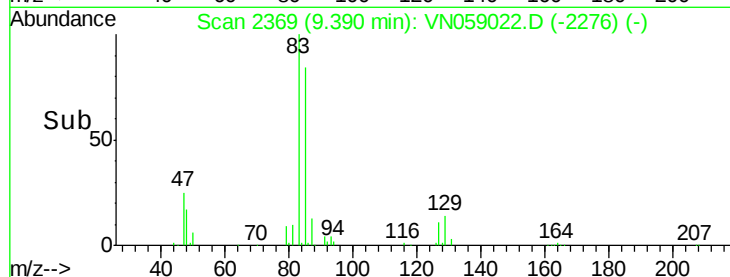
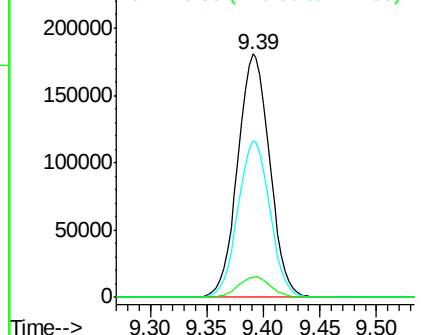
MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN059022.D (-2276) (-)

Ion 84.90 (84.60 to 85.60): VN059022.D (-2276) (-)

Ion 126.80 (126.50 to 127.50): VN059022.D (-2276) (-)



#48

Methyl methacrylate

Concen: 54.071 ug/l

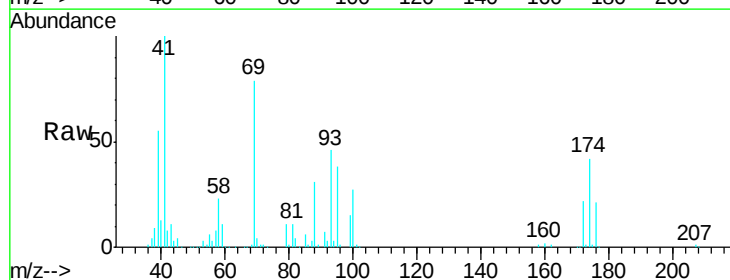
RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

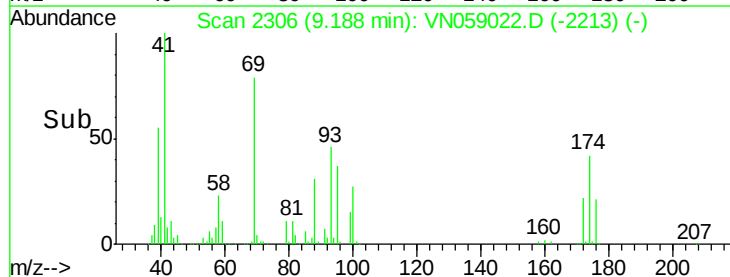
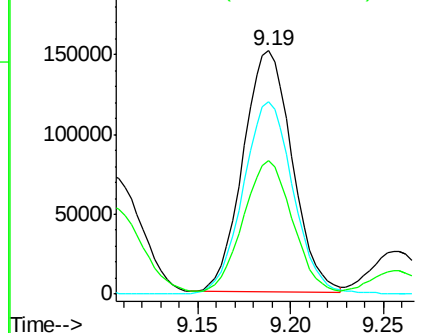
Tgt Ion:	41	Resp:	279465
Ion Ratio	Lower	Upper	
41	100		
69	81.7	63.8	95.6
39	55.8	47.8	71.8

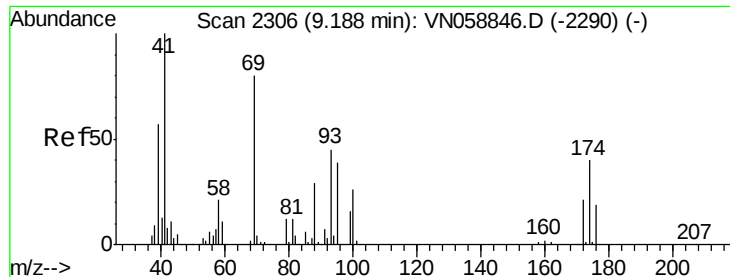


Abundance Ion 41.00 (40.70 to 41.70): VN059022.D (-2213) (-)

Ion 69.00 (68.70 to 69.70): VN059022.D (-2213) (-)

Ion 39.00 (38.70 to 39.70): VN059022.D (-2213) (-)





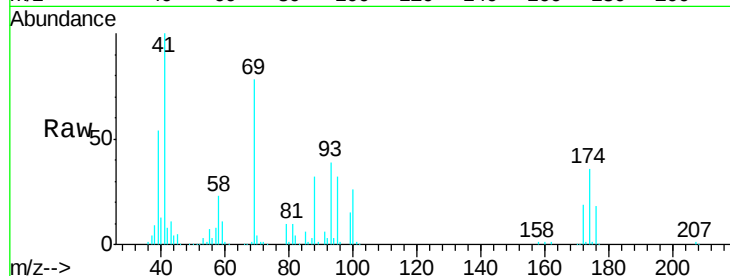
#49
1,4-Dioxane
Concen: 1145.085 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
88	100		
43	33.7	29.1	43.7
58	71.9	59.4	89.0

Manual Integrations
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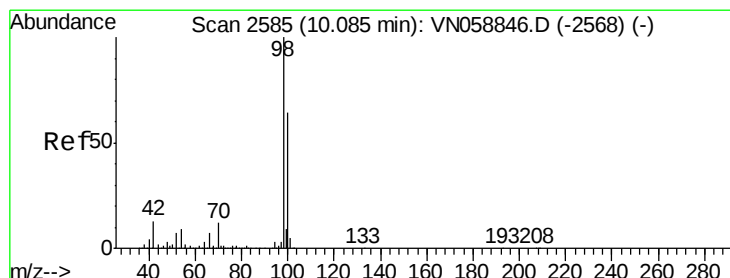
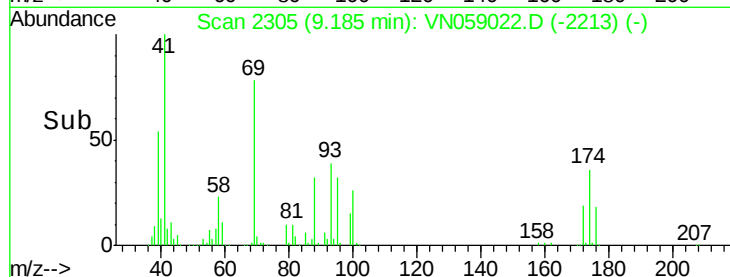
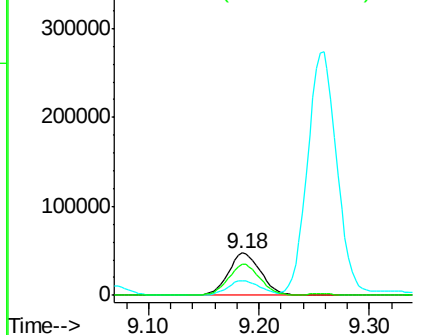
MMDadoda
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Abundance Ion 88.00 (87.70 to 88.70): VN058846.D (-2290) (-)

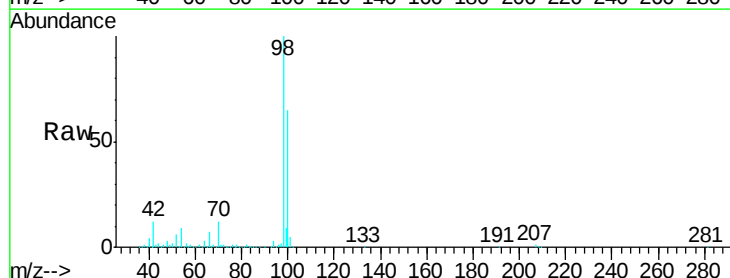
Ion 43.00 (42.70 to 43.70): VN058846.D (-2290) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-2290) (-)



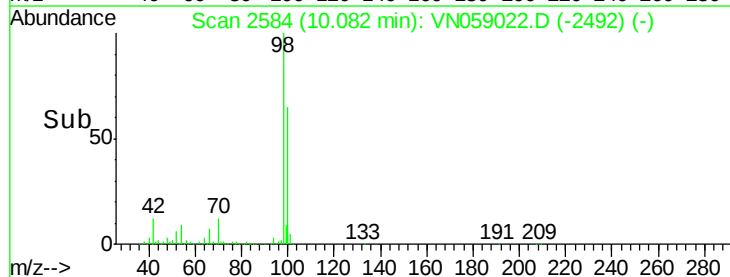
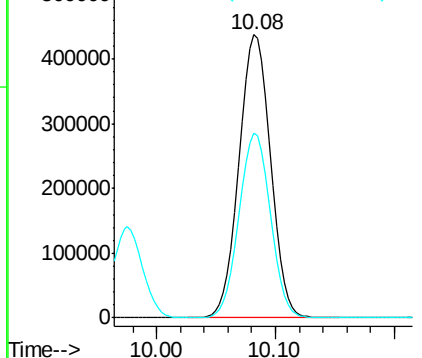
#50
Toluene-d8
Concen: 49.631 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

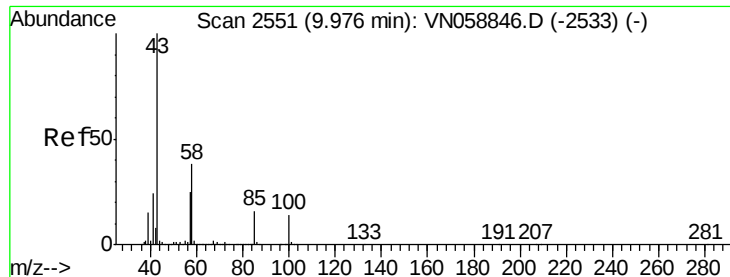
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.4	77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058846.D (-2568) (-)





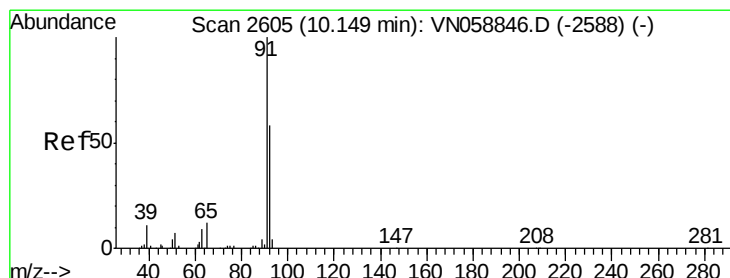
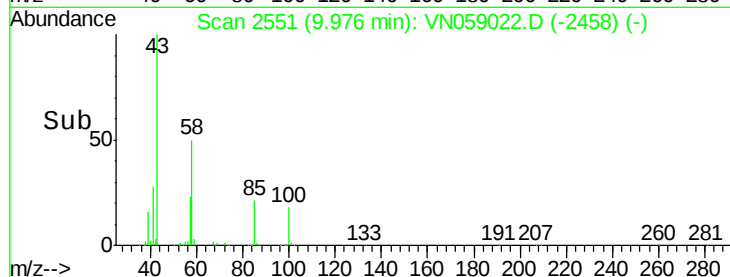
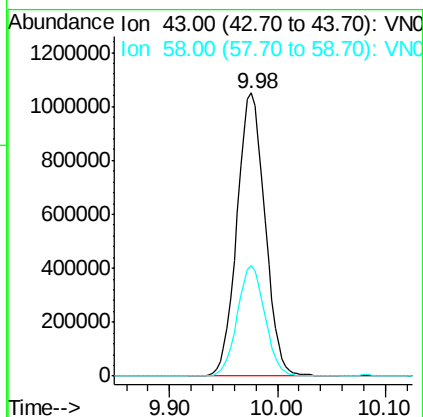
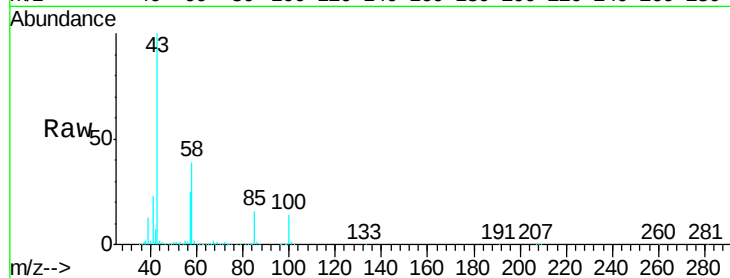
#51
 4-Methyl-2-Pentanone
 Concen: 285.649 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN059022.D
 Acq: 30 Oct 2019 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 43 Resp: 1900668
 Ion Ratio Lower Upper
 43 100
 58 38.6 29.9 44.9

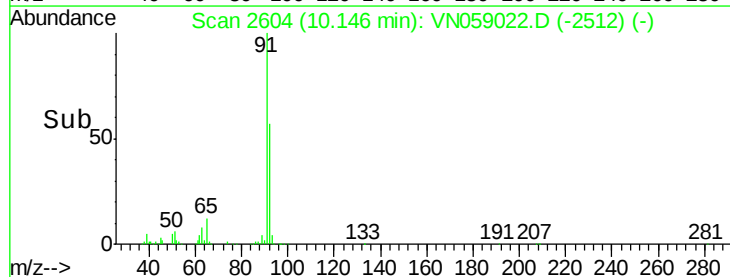
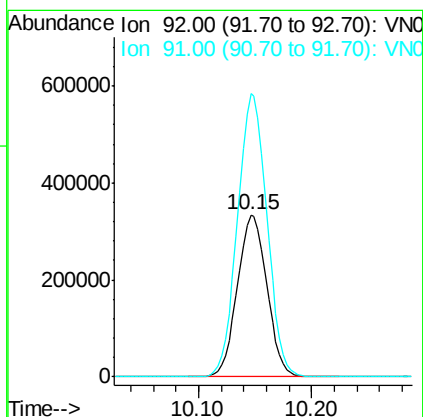
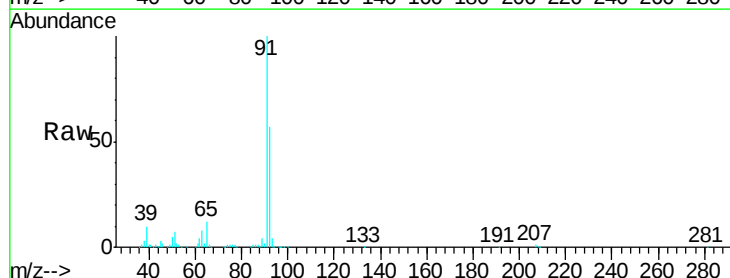
Manual Integrations
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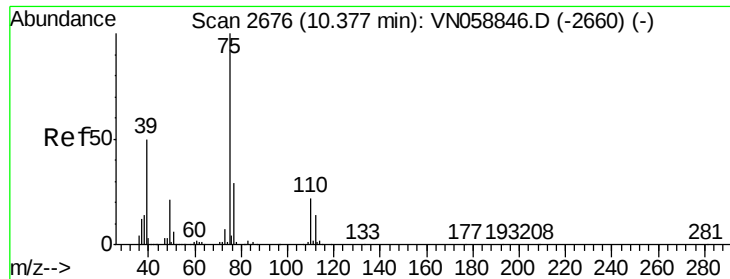
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#52
 Toluene
 Concen: 53.637 ug/l
 RT: 10.15 min Scan# 2604
 Delta R.T. -0.00 min
 Lab File: VN059022.D
 Acq: 30 Oct 2019 12:30

Tgt Ion: 92 Resp: 608881
 Ion Ratio Lower Upper
 92 100
 91 174.8 138.9 208.3





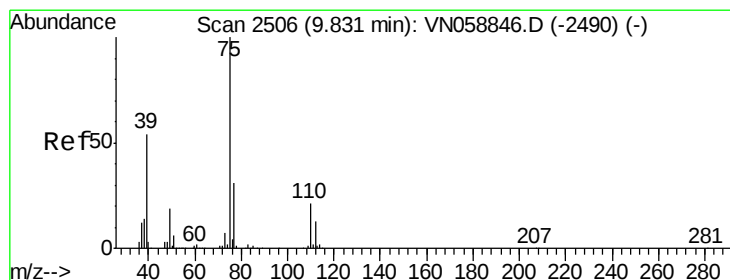
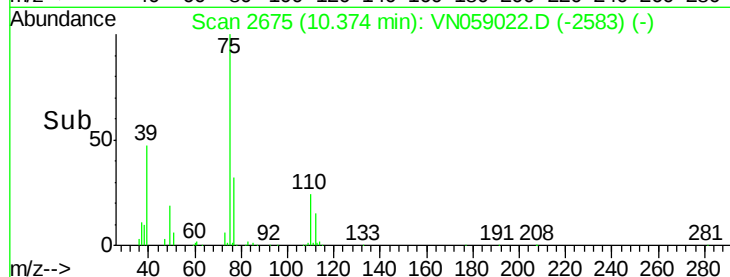
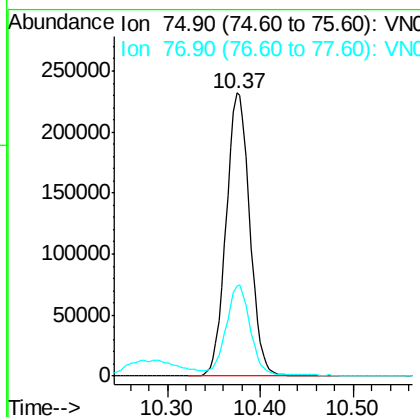
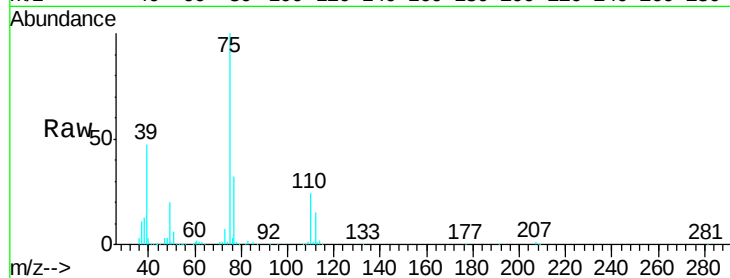
#53
t-1,3-Dichloropropene
Concen: 53.937 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 408380
Ion Ratio Lower Upper
75 100
77 31.8 25.7 38.5

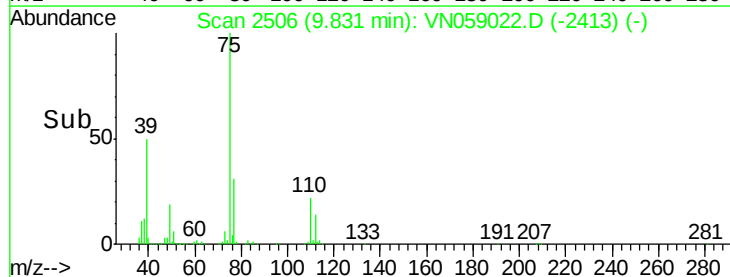
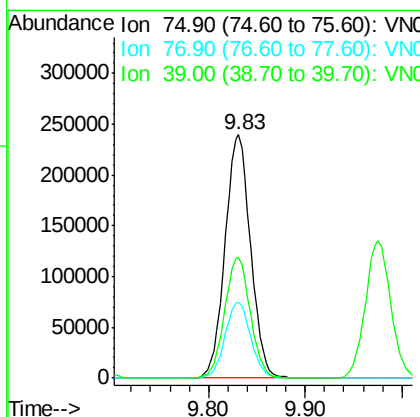
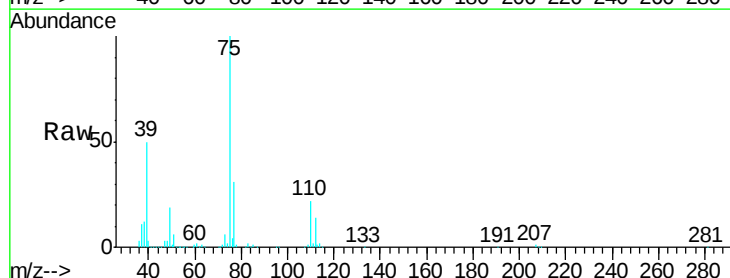
Manual Integrations
APPROVED

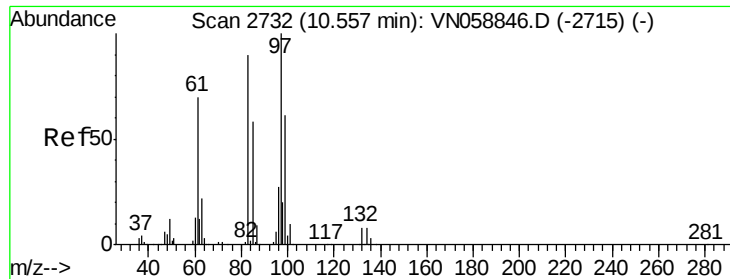
MMDadoda
10/31/2019 3:37:29 PM



#54
cis-1,3-Dichloropropene
Concen: 54.138 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VN059022.D
Acq: 30 Oct 2019 12:30

Tgt Ion: 75 Resp: 437923
Ion Ratio Lower Upper
75 100
77 31.4 24.7 37.1
39 49.6 43.5 65.3





#55

1,1,2-Trichloroethane

Concen: 52.692 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Instrument :

MSVOA_N

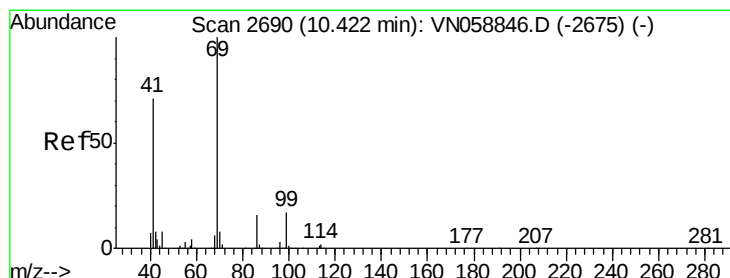
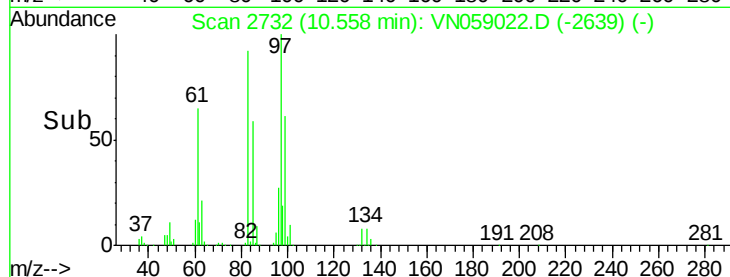
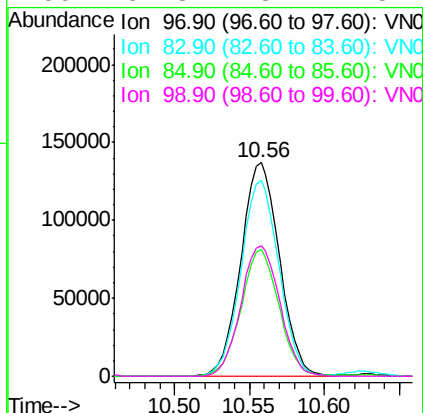
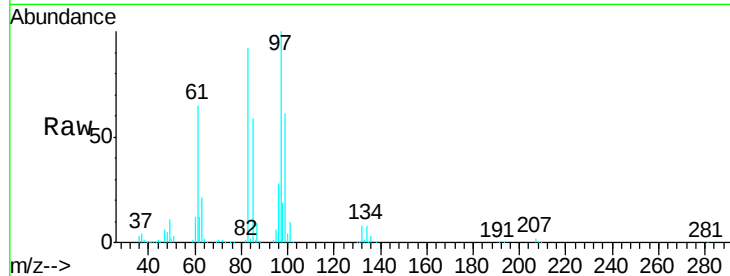
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	97	Resp:	246408
Ion	Ratio	Lower	Upper
97	100		
83	91.8	72.2	108.4
85	59.6	46.2	69.2
99	61.3	48.7	73.1

Manual Integrations
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#56

Ethyl methacrylate

Concen: 50.566 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. 0.00 min

Lab File: VN059022.D

Acq: 30 Oct 2019 12:30

Tgt Ion:	69	Resp:	397404
Ion	Ratio	Lower	Upper
69	100		
41	68.7	57.2	85.8
39	35.7	31.0	46.4

