

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091219\
 Data File : VL034160.D
 Acq On : 12 Sep 2019 15:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/14/2019 12:09:45 AM

Quant Time: Sep 13 01:53:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1293685	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2365406	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2641332m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	2071269	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2030314	9.515	ppbv	98
3) Chlorodifluoromethane	2.98	51	1386772	9.617	ppbv	100
4) Chloromethane	3.13	50	864735	9.592	ppbv	96
5) Vinyl Chloride	3.25	62	770475	9.382	ppbv	96
6) Bromomethane	3.47	94	389605	9.613	ppbv	99
7) Chloroethane	3.56	64	284479	10.168	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	1545372	8.998	ppbv	99
9) Propene	3.00	41	736287	9.126	ppbv	99
10) Heptane	8.18	43	1922198	9.180	ppbv	100
11) Trichlorofluoromethane	3.96	101	1623519	9.330	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1092237	9.382	ppbv	99
13) Ethanol	3.60	45	107920	6.828	ppbv	96
14) Bromoethene	3.74	108	479767	9.518	ppbv	98
15) Acetone	3.85	43	1411512	9.053	ppbv	100
16) 1,3-Butadiene	3.32	39	750211	9.501	ppbv	100
17) tert-Butyl alcohol	4.30	59	881485	7.788	ppbv	100
18) 1,1-Dichloroethene	4.30	96	510510	9.598	ppbv	96
19) Isopropyl Alcohol	3.98	45	805461	7.654	ppbv	100
20) Methylene Chloride	4.36	84	459844	8.920	ppbv	98
21) Allyl Chloride	4.43	41	993007	9.661	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	506954	9.522	ppbv	100
23) Vinyl Acetate	5.10	43	2475659	9.359	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1622651	9.242	ppbv	99
25) Ethyl Acetate	5.71	43	2973179	8.687	ppbv	100
26) Hexane	5.72	57	1285555	8.449	ppbv	98
27) Carbon Disulfide	4.57	76	1374092	10.006	ppbv	100
28) Methyl tert-Butyl Ether	5.06	73	2056604	9.225	ppbv	100
29) Chloroform	5.79	83	1879187	9.156	ppbv	96
30) Cyclohexane	7.19	84	1026806	9.334	ppbv	98
31) cis-1,2-Dichloroethene	5.58	61	1392265	9.554	ppbv	98
32) 1,1,1-Trichloroethane	6.56	97	1752384	9.037	ppbv	97
34) 2-Butanone	5.27	43	2149931	9.454	ppbv	99
35) Carbon Tetrachloride	7.07	117	1725554	9.357	ppbv	99
36) Benzene	6.95	78	2459747	9.098	ppbv	96
37) 1,2-Dichloroethane	6.36	62	1622798	9.784	ppbv	100
38) Trichloroethene	7.90	130	808095	8.010	ppbv	94
39) 1,2-Dichloropropane	7.67	63	1090664	9.426	ppbv	96
40) 1,4-Dioxane	7.89	88	310089	7.292	ppbv #	47
41) Tetrahydrofuran	6.09	42	1317067	9.661	ppbv	98
42) Bromodichloromethane	7.85	83	2082096	9.632	ppbv	97
43) Methyl Methacrylate	8.08	69	1102222	9.896	ppbv	98

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 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	4363356	8.753	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1395823	10.662	ppbv	98
46) cis-1,3-Dichloropropene	8.77	75	1581454	9.930	ppbv	97
47) 1,1,2-Trichloroethane	9.55	97	983697	9.332	ppbv	96
48) Dibromochloromethane	10.38	129	1580645	10.049	ppbv	98
49) Bromoform	13.13	173	1346929	9.767	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	3138852	9.045	ppbv	99
51) 2-Hexanone	10.20	43	2724889	9.090	ppbv #	99
52) Tetrachloroethene	11.30	164	785584	8.240	ppbv	96
53) Toluene	9.88	91	2713047	9.073	ppbv	100
54) 1,2-Dibromoethane	10.69	107	1459995	9.297	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	1024907	9.047	ppbv #	58
57) Chlorobenzene	12.23	112	1906425	8.390	ppbv	99
58) Ethyl Benzene	12.79	91	3681670	8.500	ppbv	97
59) m/p-Xylene	13.08	91	5915219m	16.742	ppbv	
60) o-Xylene	13.78	91	2958503	8.407	ppbv	99
61) Styrene	13.62	104	2298344	8.731	ppbv	99
62) Isopropylbenzene	14.76	105	3781805	8.259	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	2143274	7.474	ppbv	100
64) n-propylbenzene	15.65	120	992513	8.653	ppbv	98
65) tert-Butylbenzene	16.83	119	3184991	8.060	ppbv	99
66) Benzyl Chloride	17.09	91	1514038	10.392	ppbv	99
67) sec-Butylbenzene	17.39	105	4571675	8.045	ppbv	100
69) p-Isopropyltoluene	17.74	119	3735563	8.216	ppbv	100
70) n-Butylbenzene	18.64	91	4198978	8.117	ppbv	99
71) 2-Chlorotoluene	15.55	91	3127066	8.360	ppbv	100
72) 4-Ethyltoluene	15.93	105	3396105	8.553	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	3226711	8.362	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	3173215	7.986	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1713392	8.138	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1825212m	8.271	ppbv	
77) 1,2-Dichlorobenzene	17.92	146	1749755	8.118	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	1191298	8.101	ppbv	99
79) Naphthalene	22.32	128	3068943	8.543	ppbv	97
80) Naphthalene, 2-methyl-	25.06	142	1768761	14.185	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1607811m	8.225	ppbv	

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

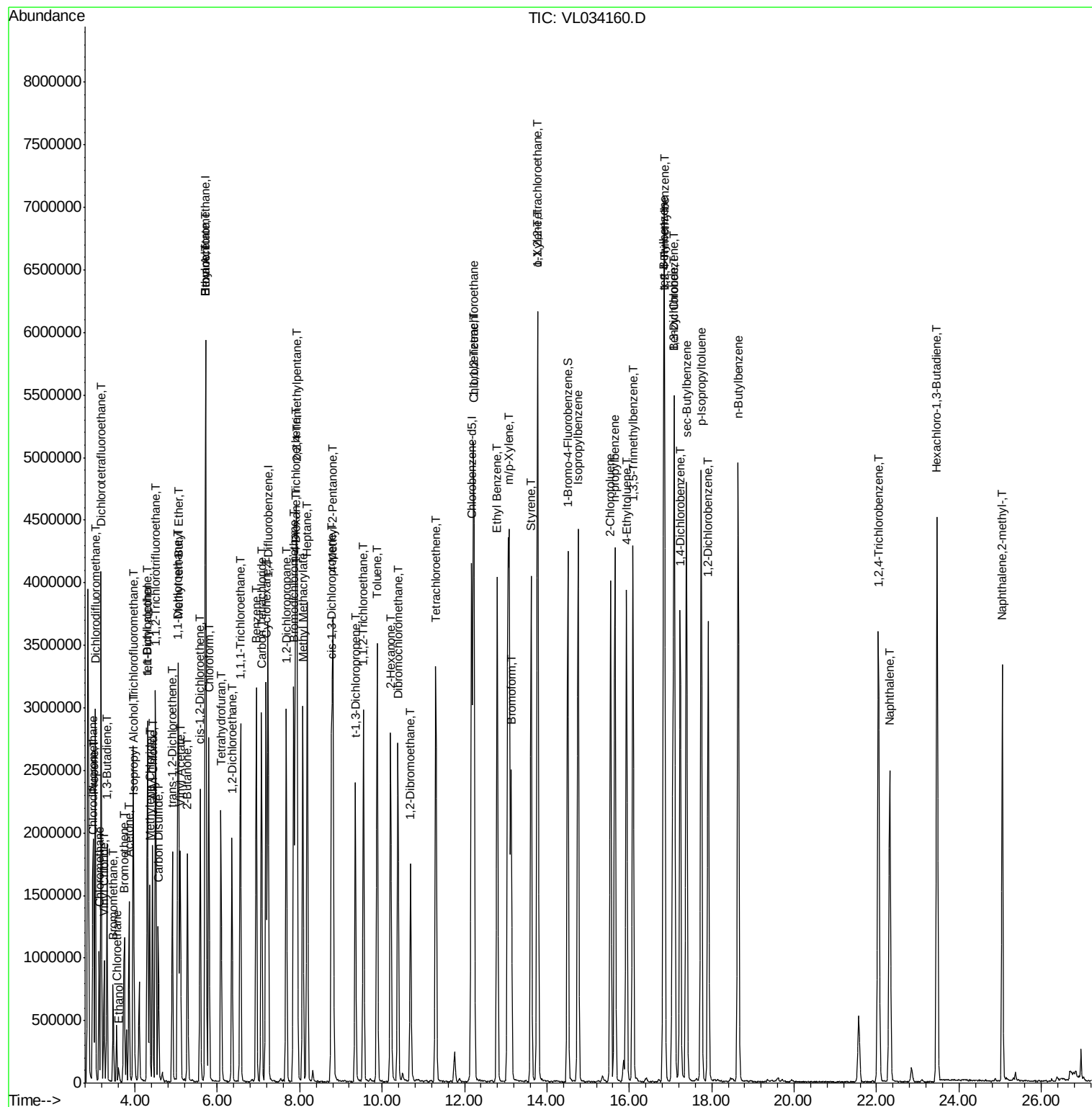
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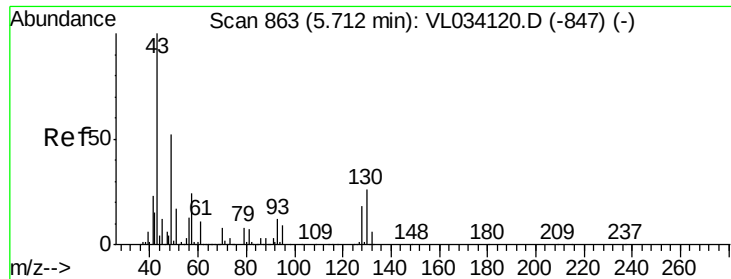
Instrument :
MSVOA_L
ClientSampleId :
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QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1293685

Ion Ratio Lower Upper

49 100

128 35.8 18.4 55.0

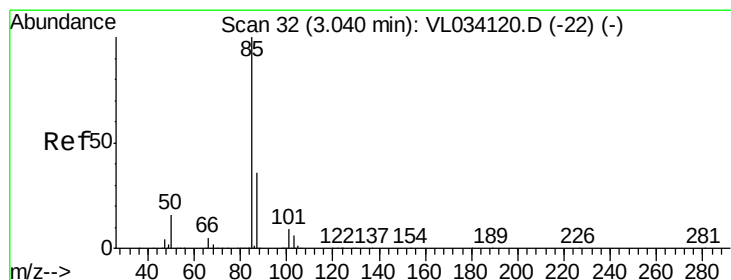
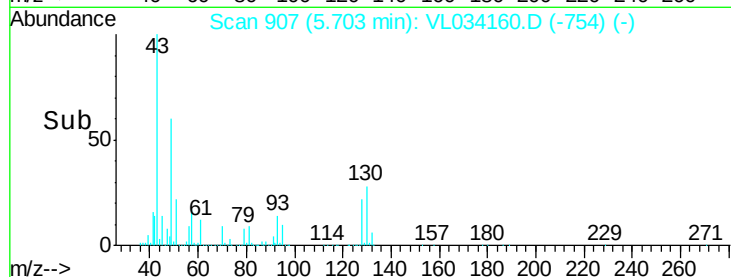
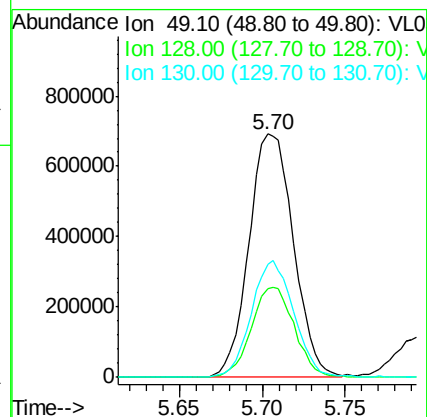
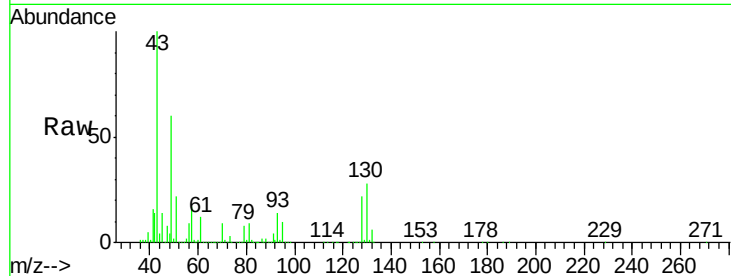
130 45.7 23.5 70.6

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 9.515 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034160.D

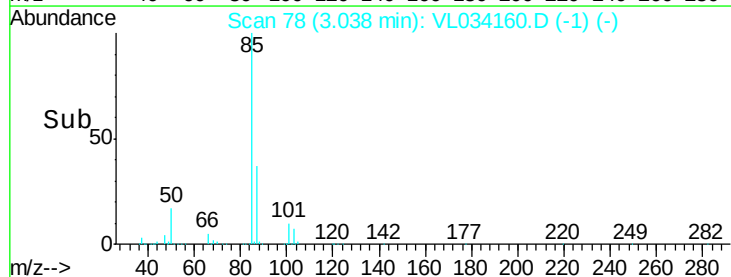
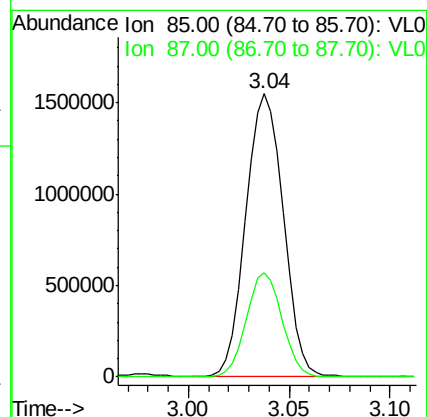
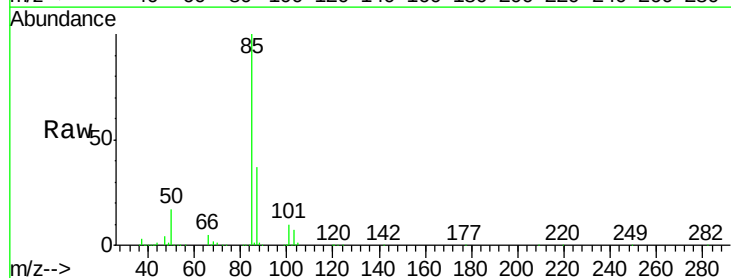
Acq: 12 Sep 2019 15:49

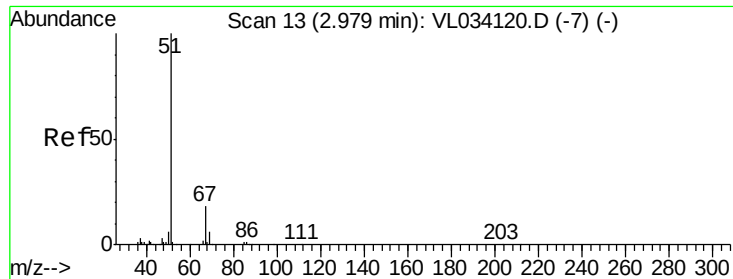
Tgt Ion: 85 Resp: 2030314

Ion Ratio Lower Upper

85 100

87 36.9 28.6 43.0





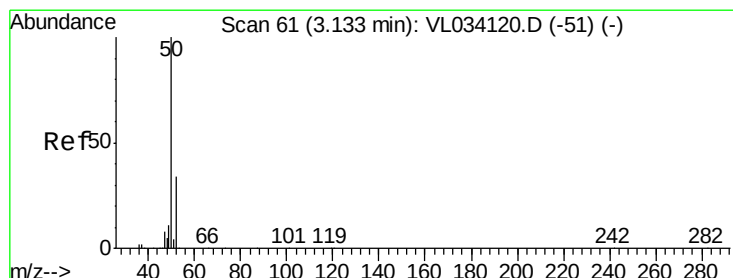
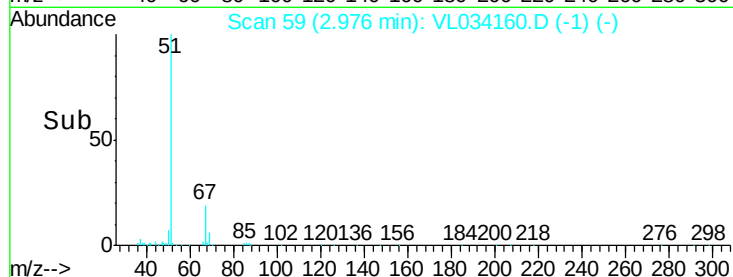
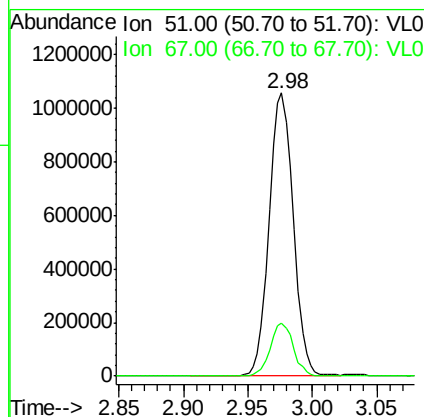
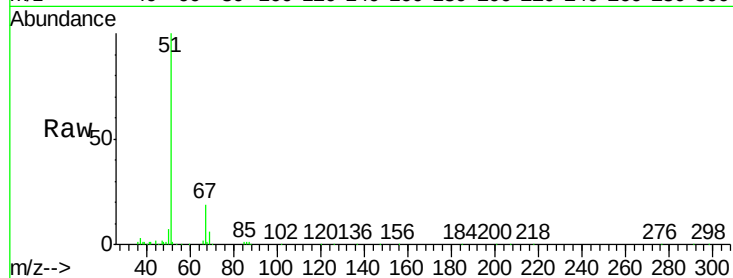
#3
Chlorodifluoromethane
Concen: 9.617 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1386772
Ion Ratio Lower Upper
51 100
67 17.9 14.2 21.4

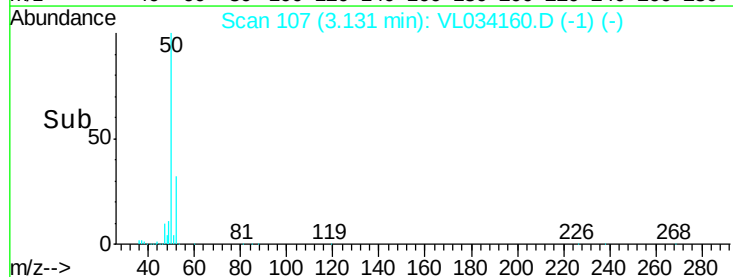
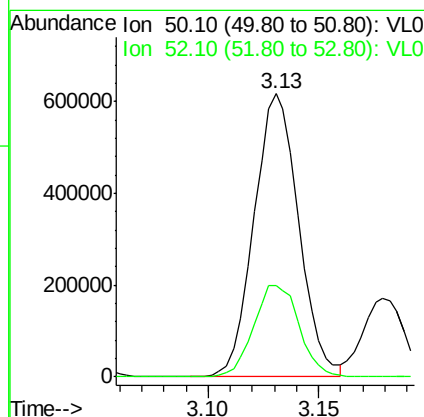
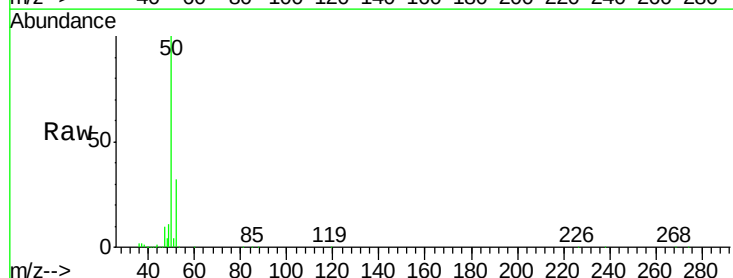
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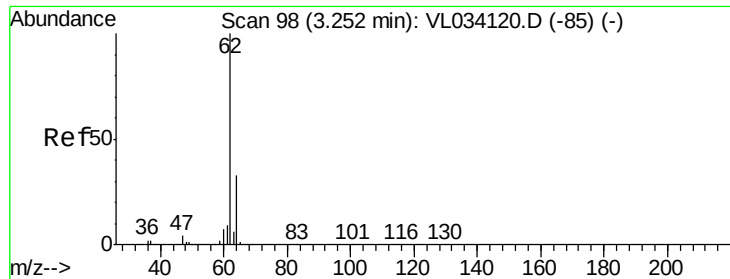
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9/14/2019 12:09:45 AM



#4
Chloromethane
Concen: 9.592 ppbv
RT: 3.13 min Scan# 107
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion: 50 Resp: 864735
Ion Ratio Lower Upper
50 100
52 32.3 27.4 41.2





#5

Vinyl Chloride

Concen: 9.382 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 770475

Ion Ratio Lower Upper

62 100

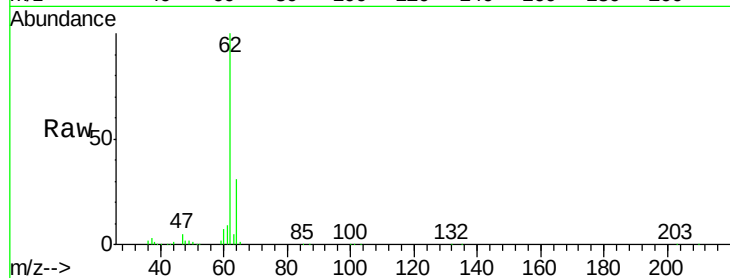
64 31.2 26.6 39.8

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

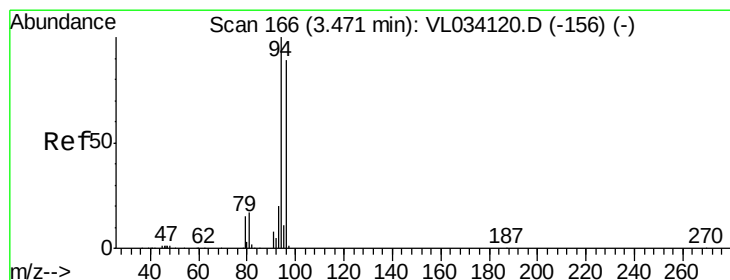
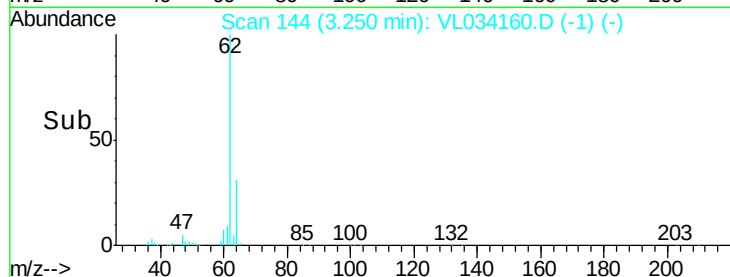
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 9.613 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL034160.D

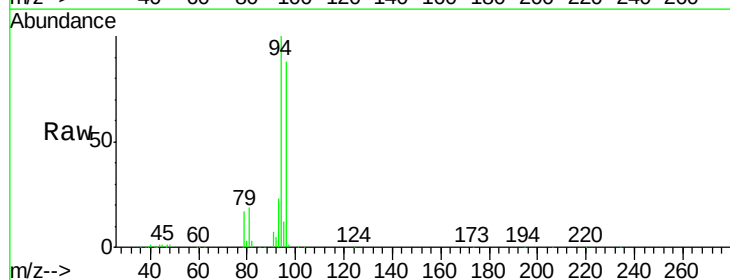
Acq: 12 Sep 2019 15:49

Tgt Ion: 94 Resp: 389605

Ion Ratio Lower Upper

94 100

96 88.2 71.4 107.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

300000

250000

200000

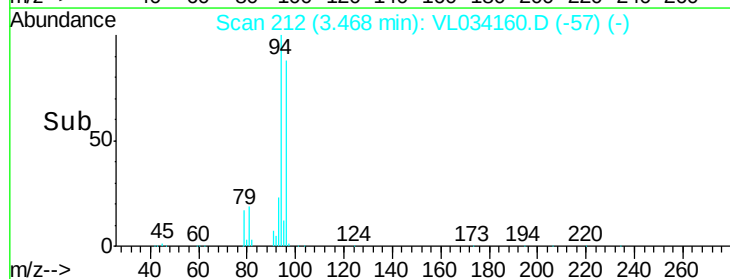
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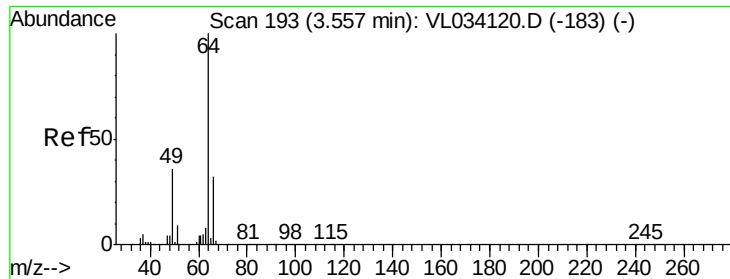
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.168 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 284479

Ion Ratio Lower Upper

64 100

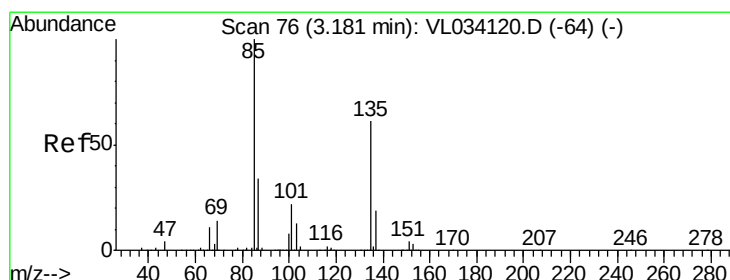
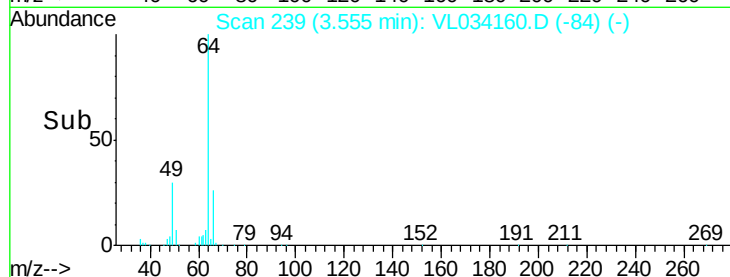
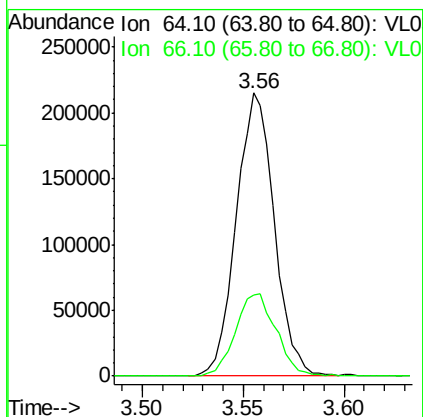
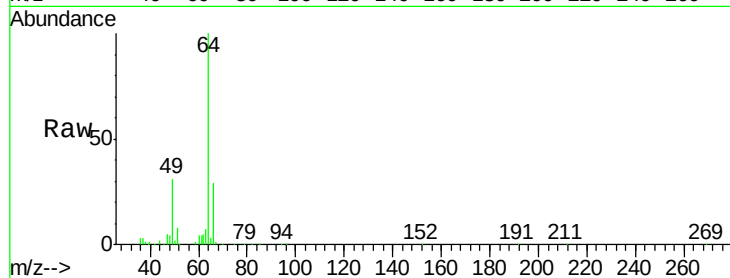
66 28.6 25.4 38.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.998 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL034160.D

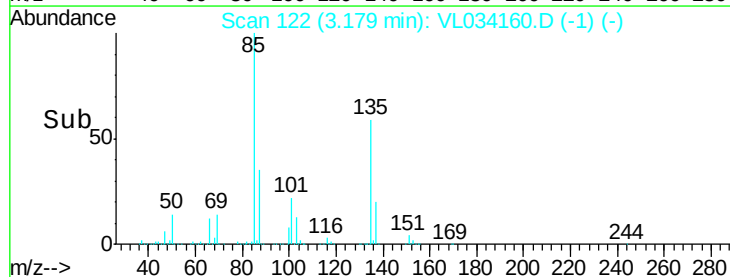
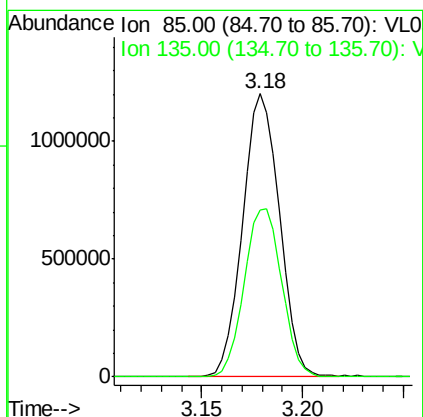
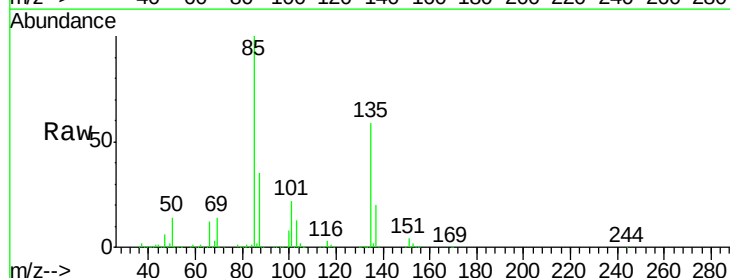
Acq: 12 Sep 2019 15:49

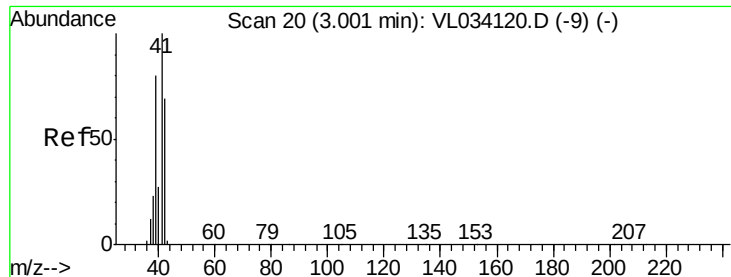
Tgt Ion: 85 Resp: 1545372

Ion Ratio Lower Upper

85 100

135 60.7 48.0 72.0





#9

Propene

Concen: 9.126 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 736287

Ion Ratio Lower Upper

41 100

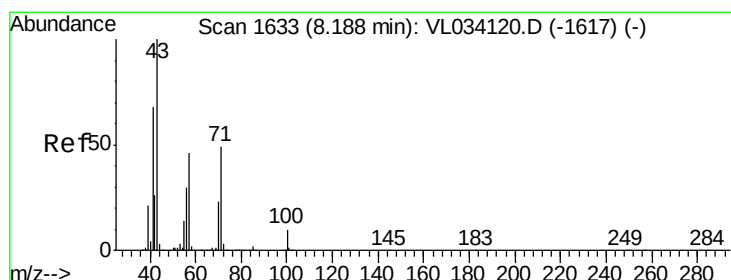
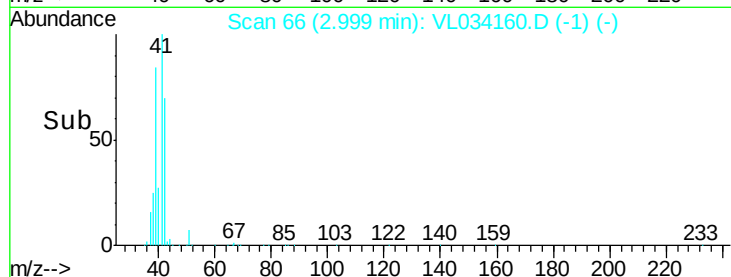
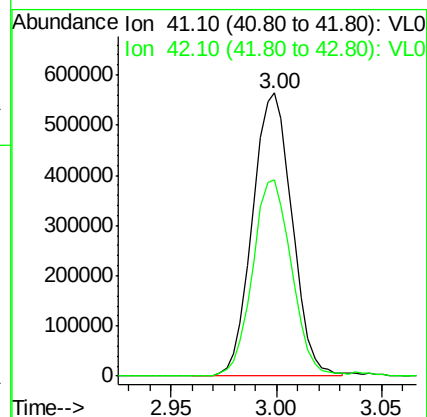
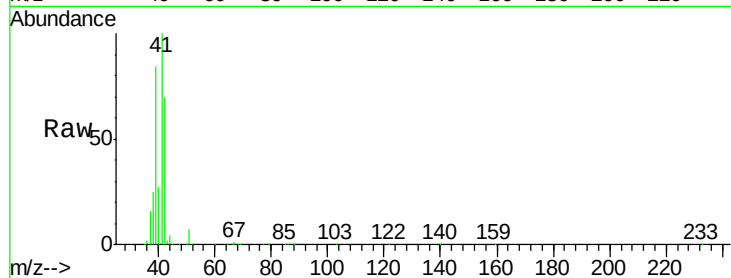
42 69.2 54.6 81.8

Manual Integrations

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9/14/2019 12:09:45 AM



#10

Heptane

Concen: 9.180 ppbv

RT: 8.18 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VL034160.D

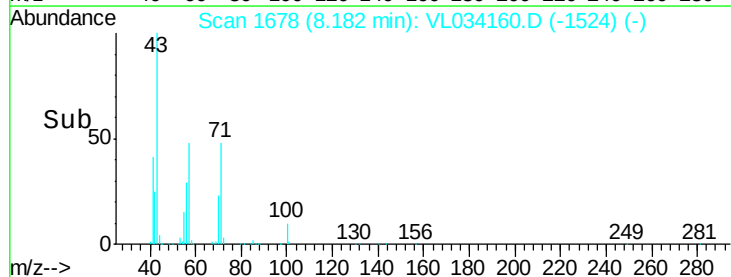
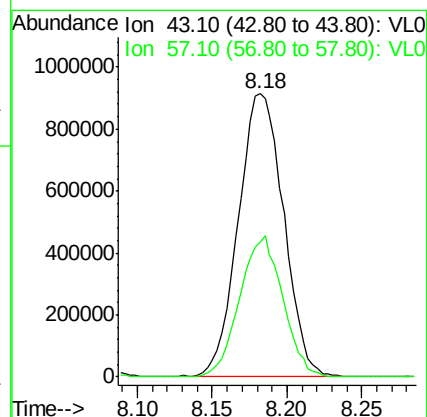
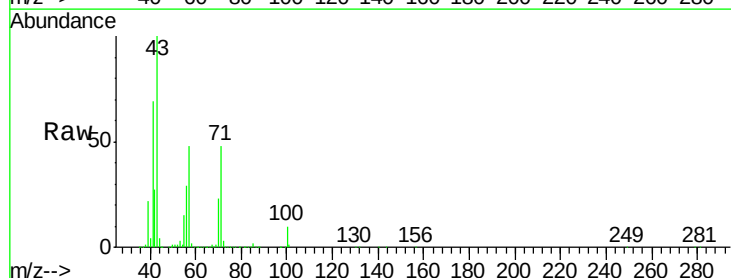
Acq: 12 Sep 2019 15:49

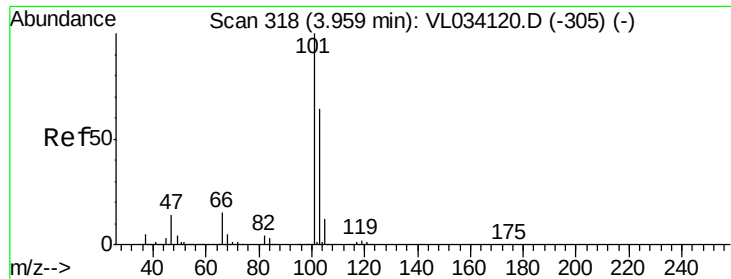
Tgt Ion: 43 Resp: 1922198

Ion Ratio Lower Upper

43 100

57 47.6 38.1 57.1





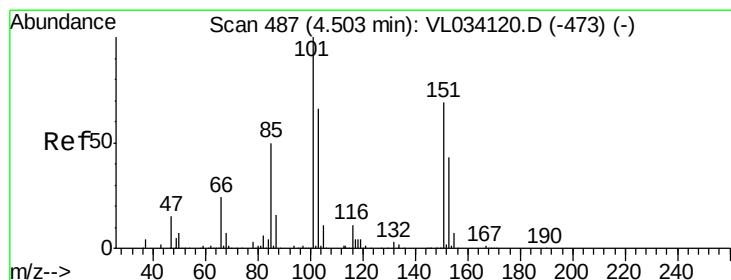
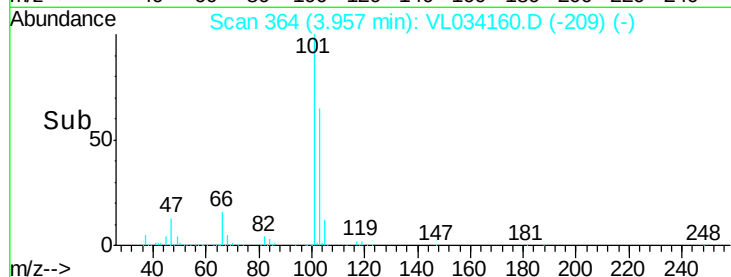
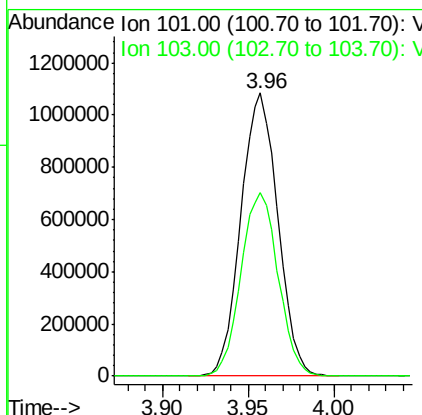
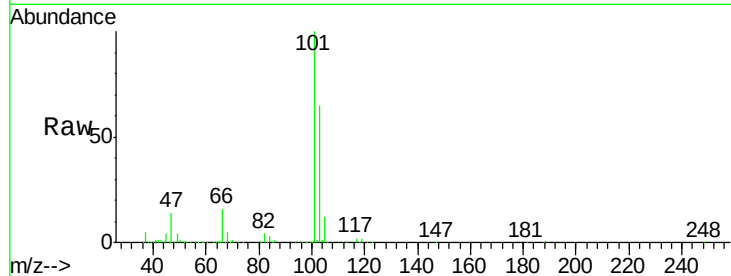
#11
 Trichlorofluoromethane
 Concen: 9.330 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1623519
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.4 77.2

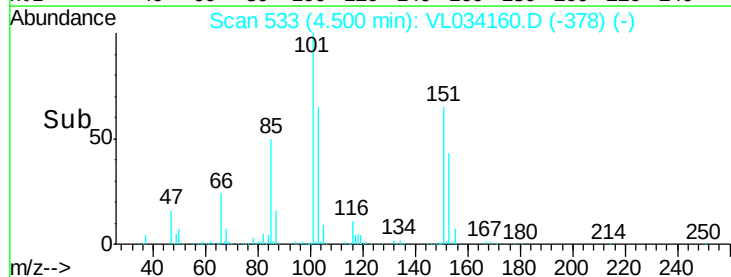
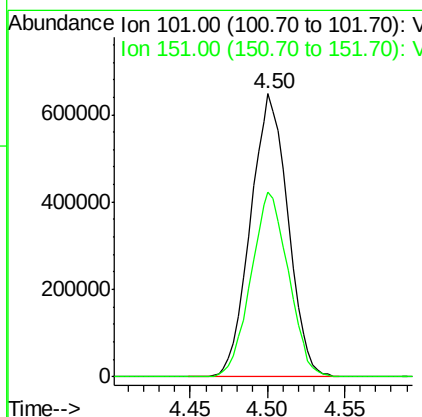
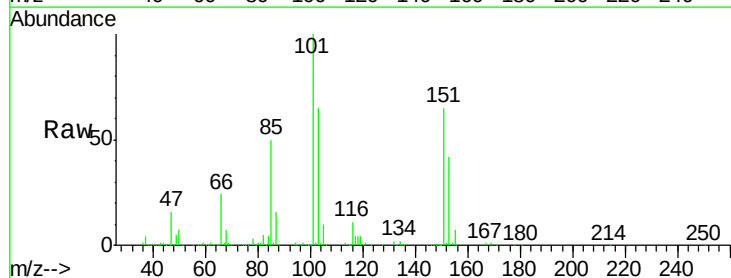
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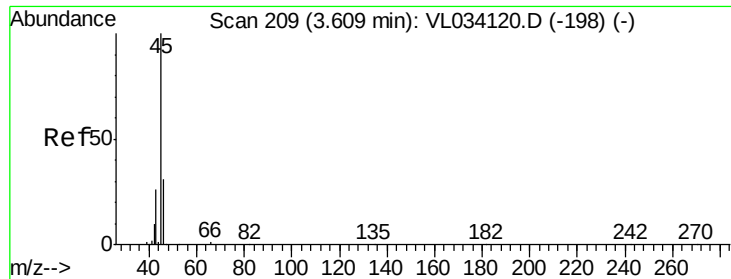
MMDadoda
 9/14/2019 12:09:45 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.382 ppbv
 RT: 4.50 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Tgt Ion:101 Resp: 1092237
 Ion Ratio Lower Upper
 101 100
 151 65.2 53.0 79.6





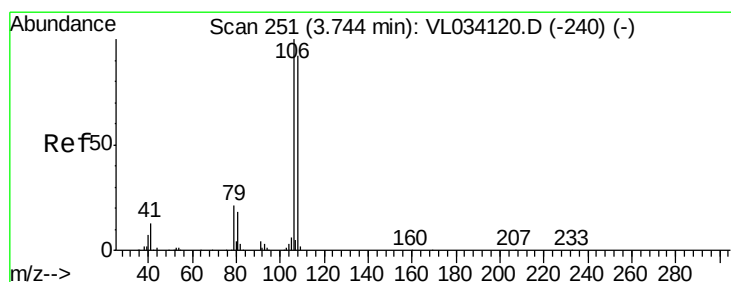
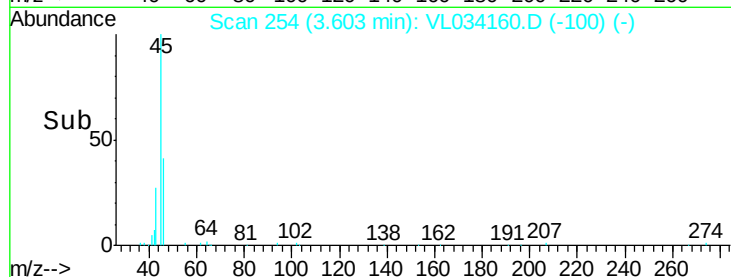
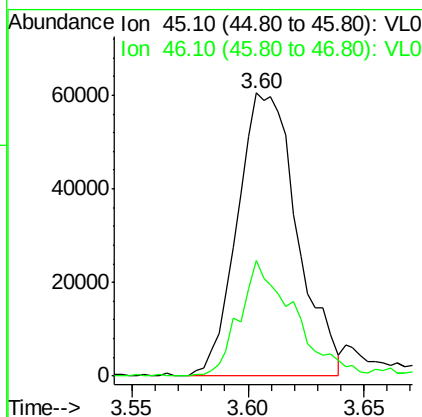
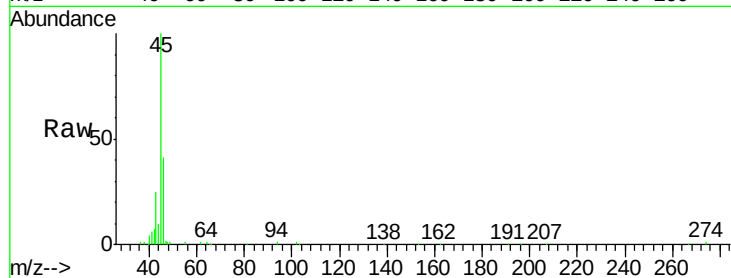
#13
Ethanol
Concen: 6.828 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	107920
Ion Ratio	100	Lower	Upper
46	39.8	15.0	60.0

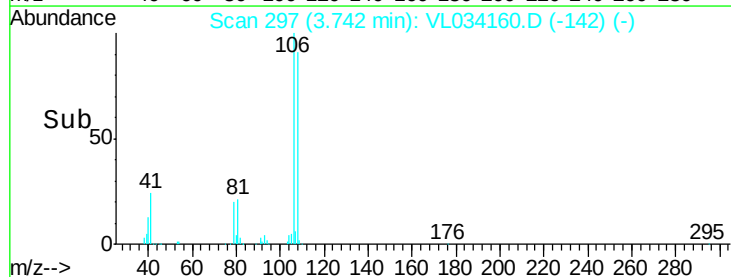
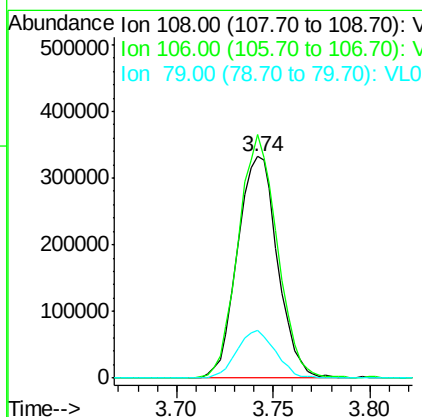
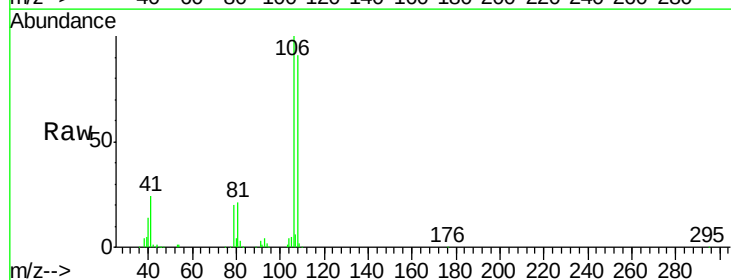
Manual Integrations
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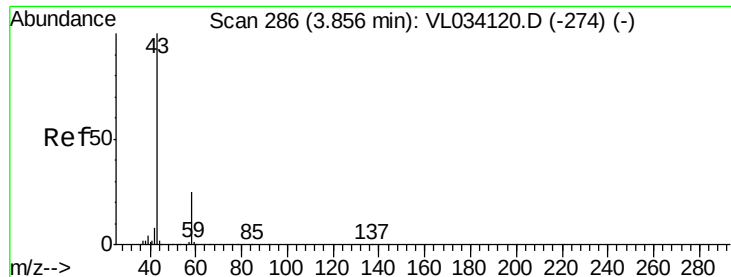
MMDadoda
9/14/2019 12:09:45 AM



#14
Bromoethene
Concen: 9.518 ppbv
RT: 3.74 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	108	Resp	479767
Ion Ratio	100	Lower	Upper
106	107.2	87.2	130.8
79	21.1	16.5	24.7





#15

Acetone

Concen: 9.053 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1411512

Ion Ratio Lower Upper

43 100

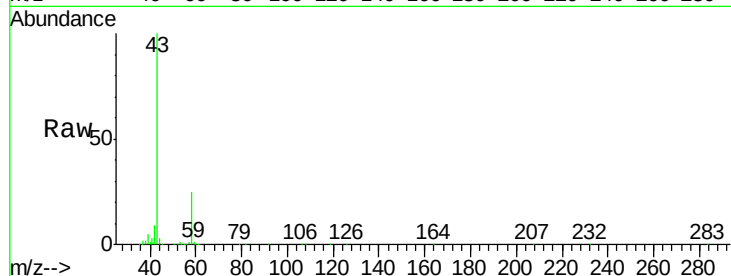
58 25.6 20.6 30.8

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1000000

800000

600000

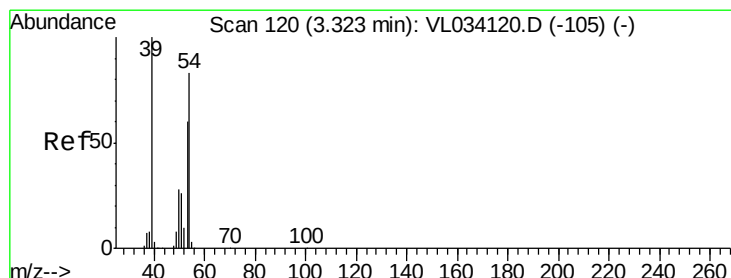
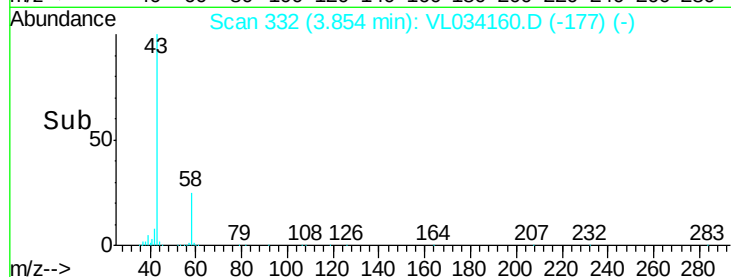
400000

200000

0

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 9.501 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034160.D

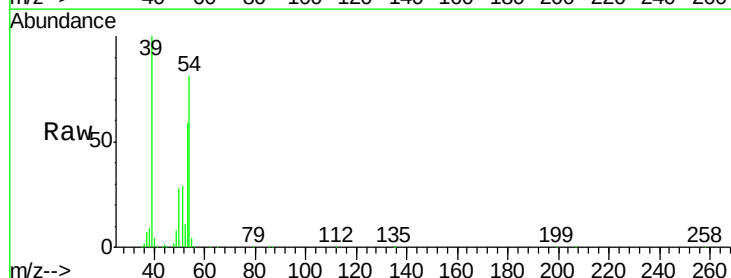
Acq: 12 Sep 2019 15:49

Tgt Ion: 39 Resp: 750211

Ion Ratio Lower Upper

39 100

54 79.6 63.5 95.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

600000

500000

400000

300000

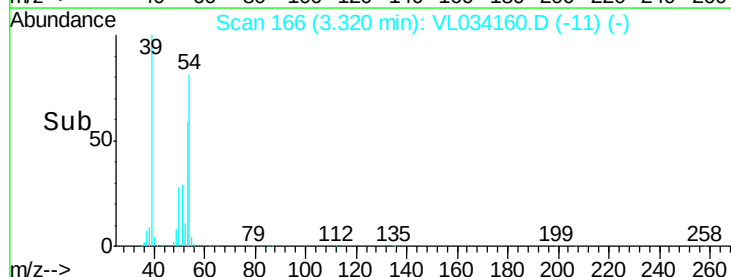
200000

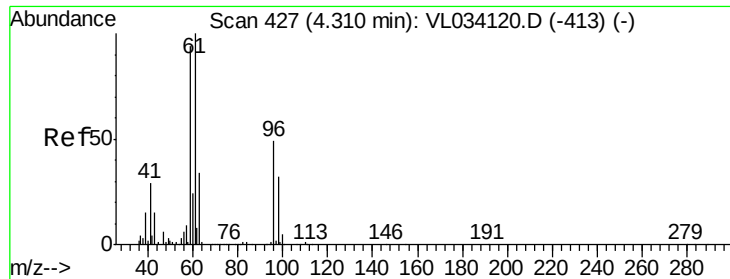
100000

0

3.25 3.30 3.35

Time-->





#17

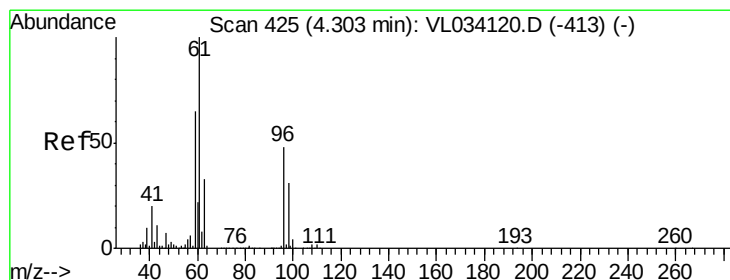
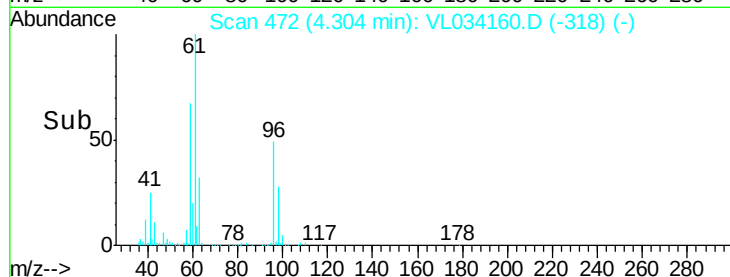
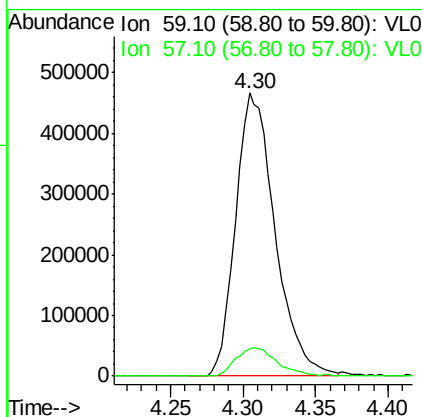
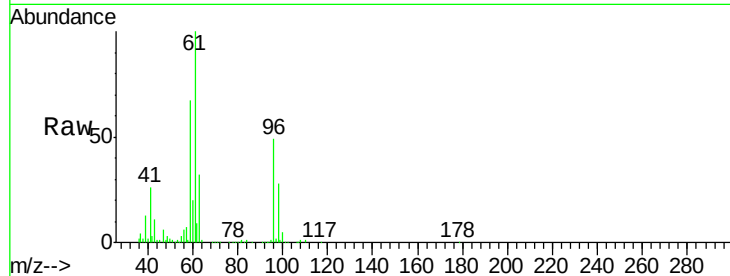
tert-Butyl alcohol
Concen: 7.788 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	59	Resp	881485
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	12.8

Manual Integrations
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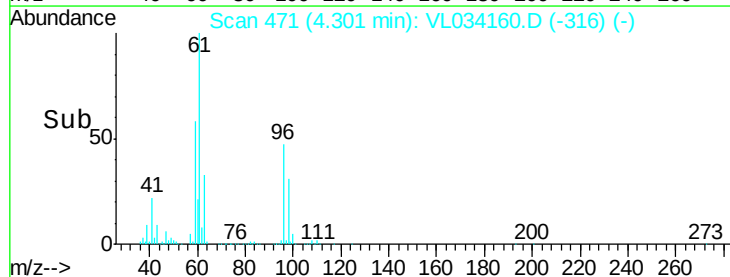
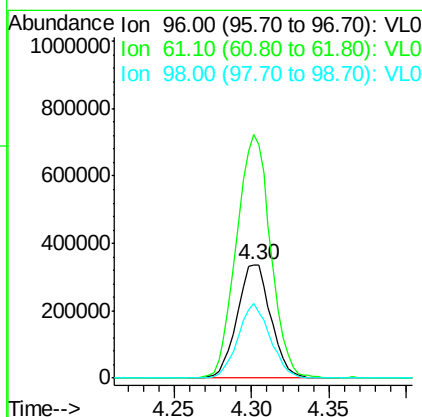
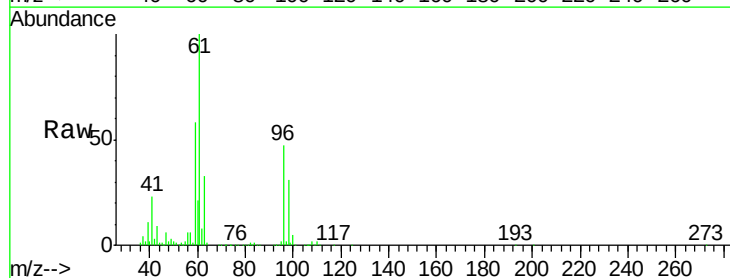
MMDadoda
9/14/2019 12:09:45 AM

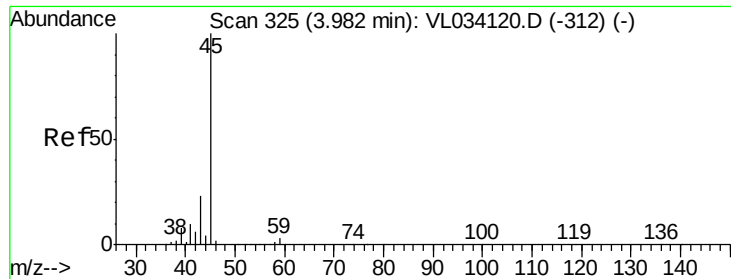


#18

1,1-Dichloroethene
Concen: 9.598 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	96	Resp	510510
Ion	Ratio	Lower	Upper
96	100		
61	214.4	165.8	248.8
98	65.6	50.8	76.2





#19

Isopropyl Alcohol

Concen: 7.654 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion: 45 Resp: 805461

Ion Ratio Lower Upper

45 100

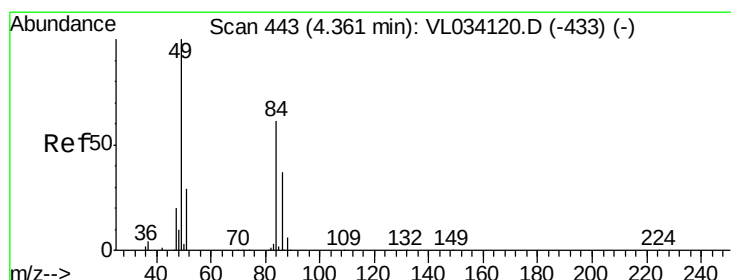
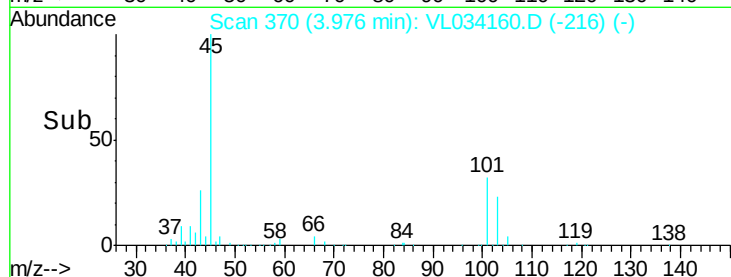
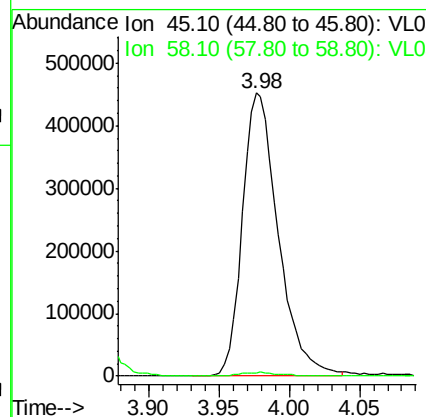
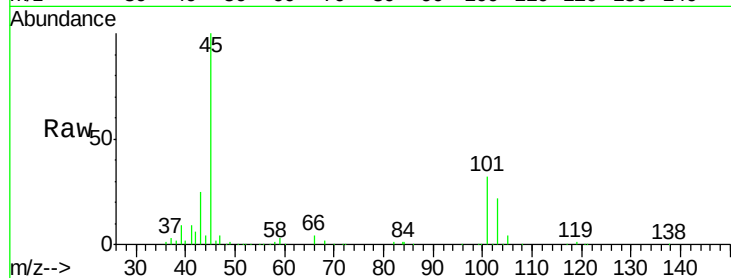
58 1.4 1.0 1.6

Manual Integrations

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#20

Methylene Chloride

Concen: 8.920 ppbv

RT: 4.36 min Scan# 489

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Tgt Ion: 84 Resp: 459844

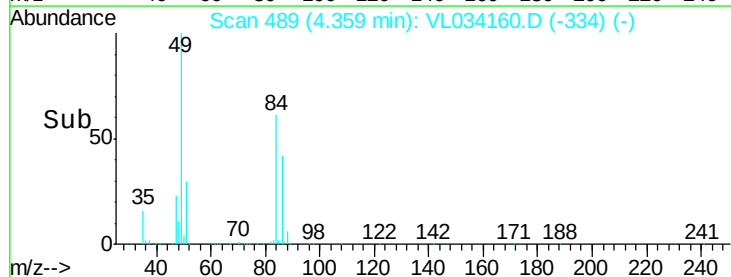
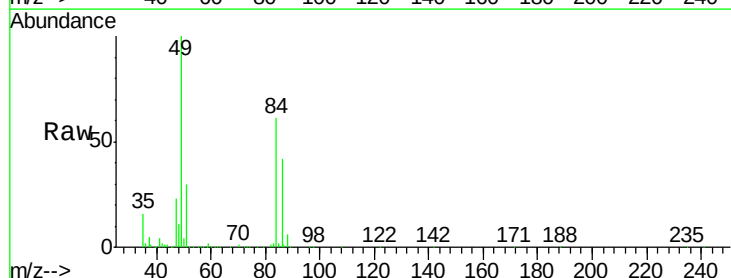
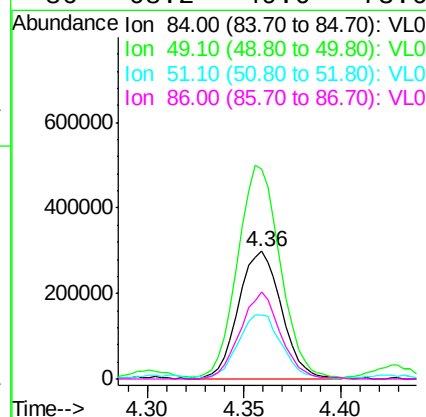
Ion Ratio Lower Upper

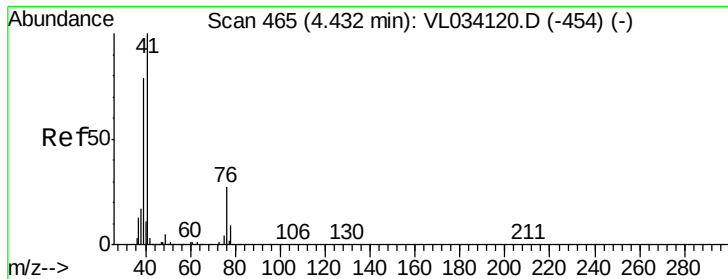
84 100

49 164.0 131.0 196.6

51 49.1 38.1 57.1

86 68.2 49.0 73.6





#21

Allvl Chloride

Concen: 9.661 ppbv

RT: 4.43 min Scan# 510

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

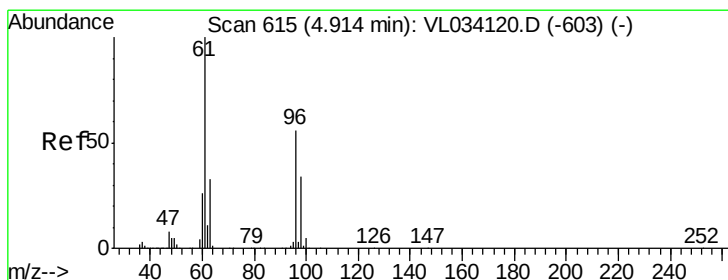
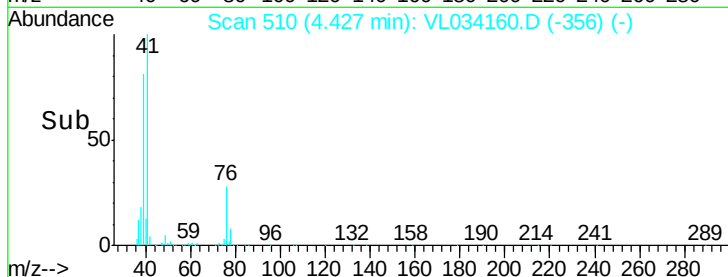
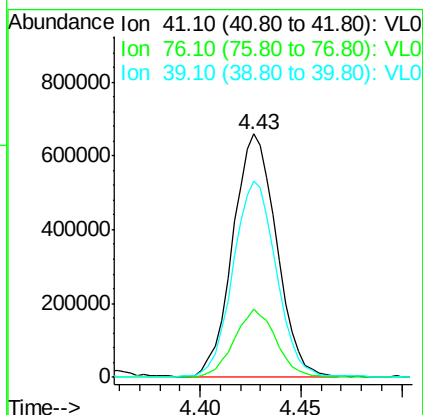
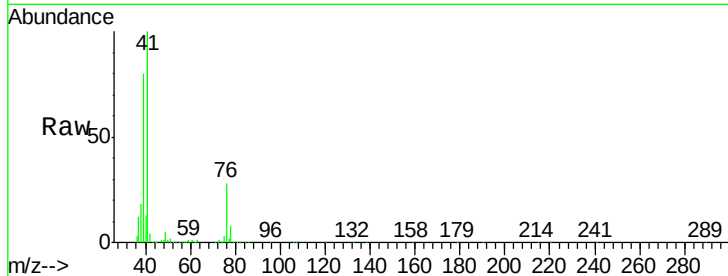
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	993007
Ion Ratio		Lower	Upper
41	100		
76	27.2	21.6	32.4
39	80.4	65.0	97.4

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.522 ppbv

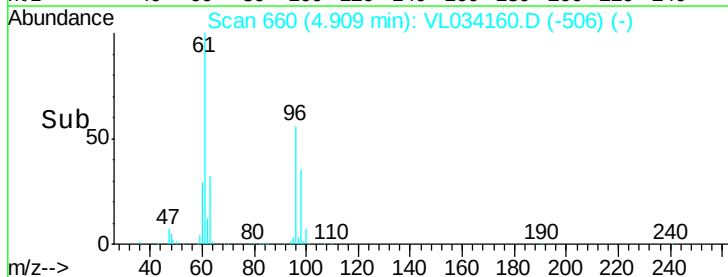
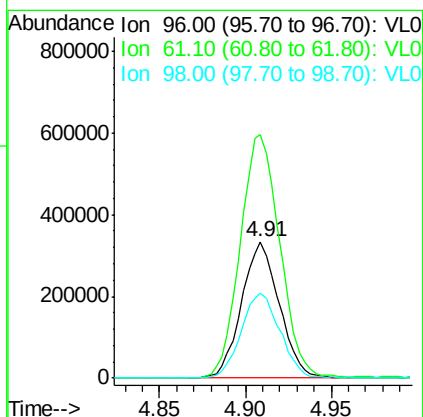
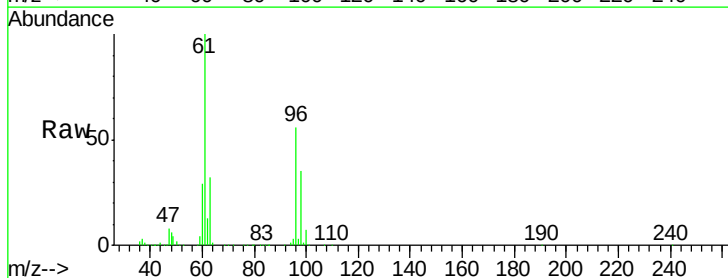
RT: 4.91 min Scan# 660

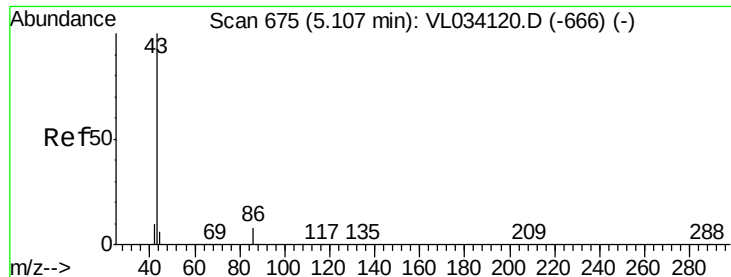
Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Tgt Ion:	96	Resp:	506954
Ion Ratio		Lower	Upper
96	100		
61	178.7	143.1	214.7
98	62.3	49.0	73.4





#23

Vinyl Acetate

Concen: 9.359 ppbv

RT: 5.10 min Scan# 720

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2475659

Ion Ratio Lower Upper

43 100

86 6.4 5.5 8.3

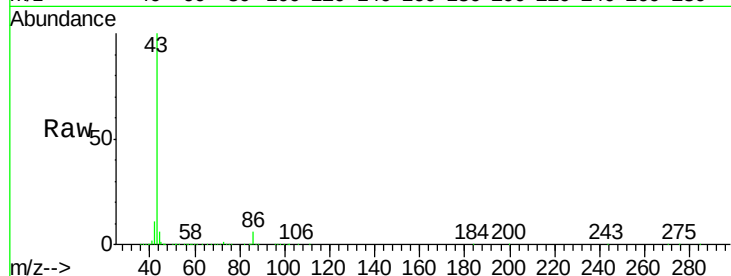
42 10.5 8.2 12.4

44 5.4 4.3 6.5

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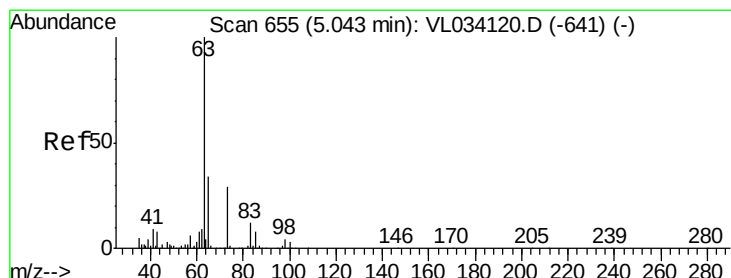
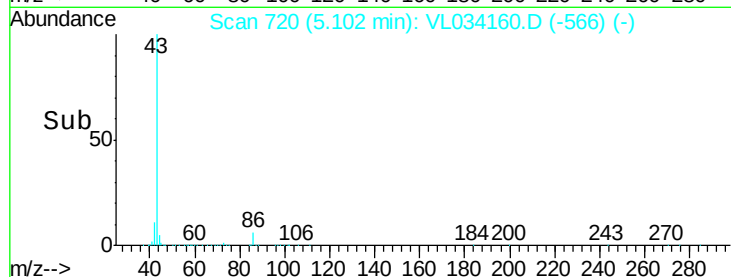
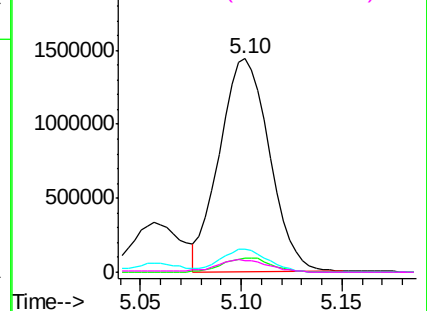


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.242 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

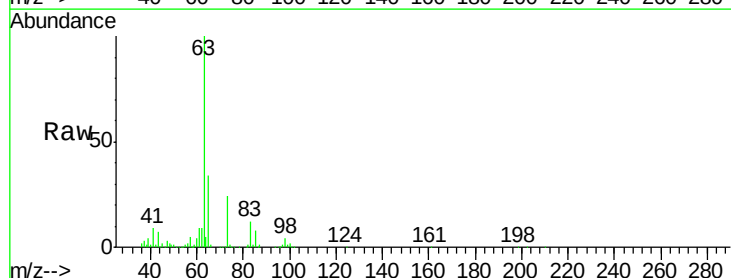
Tgt Ion: 63 Resp: 1622651

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.2

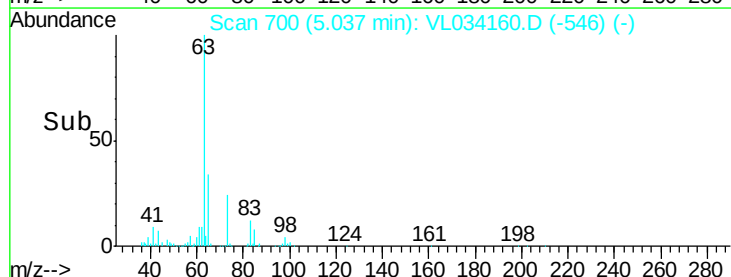
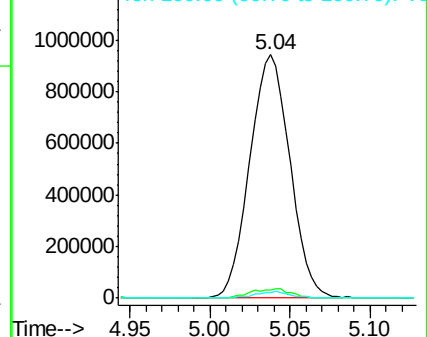
100 2.5 1.4 4.0

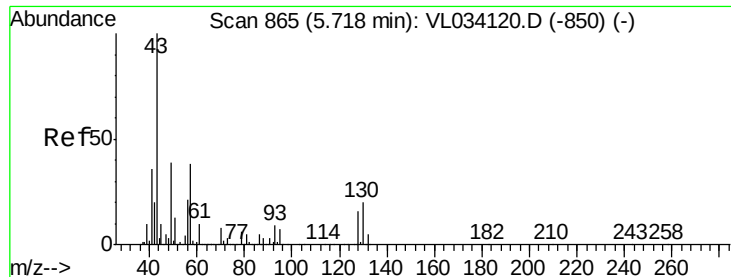


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





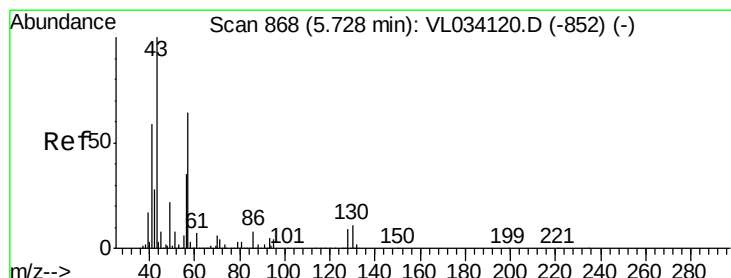
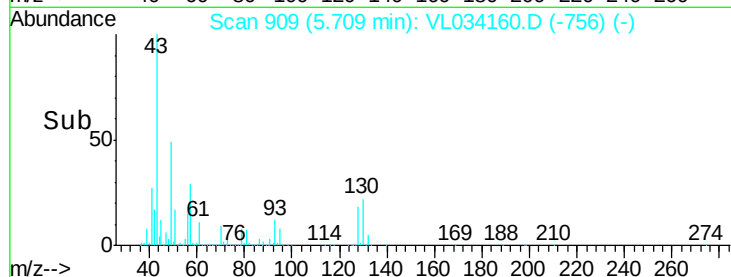
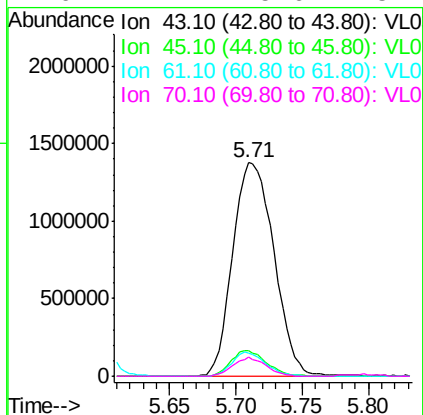
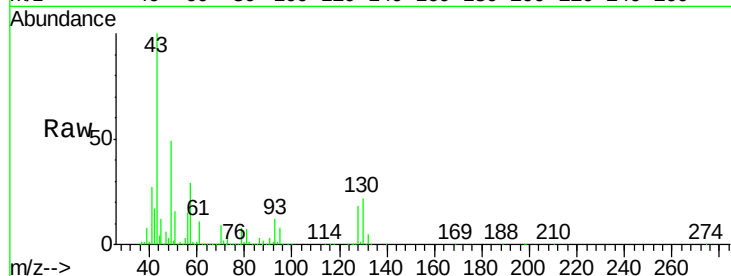
#25
Ethyl Acetate
Concen: 8.687 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	2973179
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.2	12.4
61	9.4	7.4	11.2
70	7.2	5.6	8.4

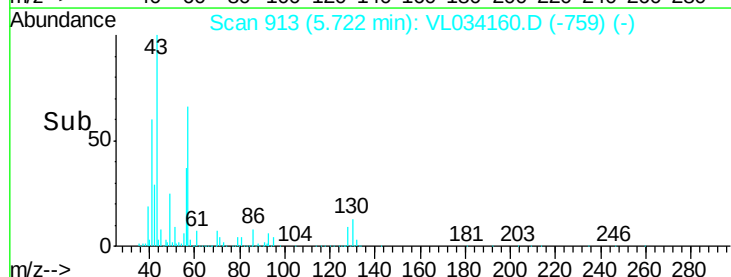
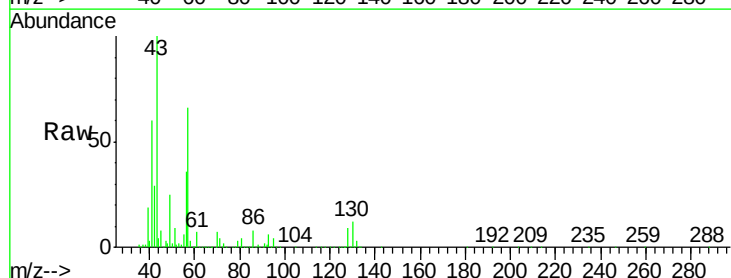
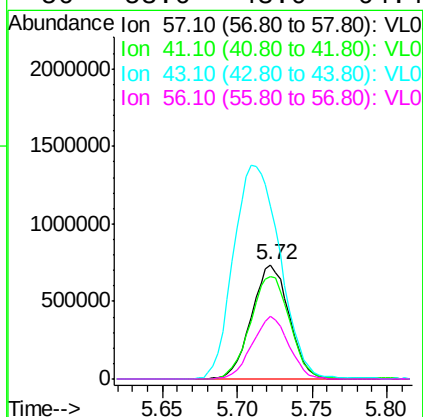
Manual Integrations
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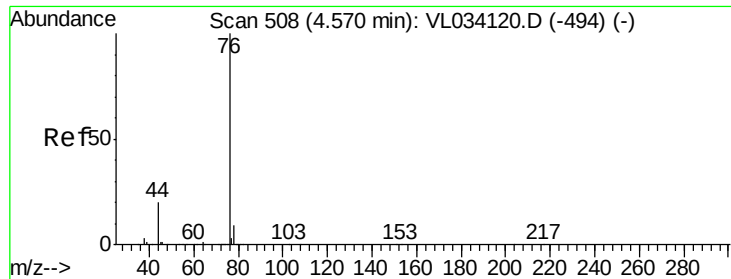
MMDadoda
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#26
Hexane
Concen: 8.449 ppbv
RT: 5.72 min Scan# 913
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	57	Resp	1285555
Ion	Ratio	Lower	Upper
57	100		
41	94.3	76.6	115.0
43	231.7	189.2	283.8
56	53.6	43.0	64.4





#27

Carbon Disulfide

Concen: 10.006 ppbv

RT: 4.57 min Scan# 554

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1374092

Ion Ratio Lower Upper

76 100

44 21.9 17.6 26.4

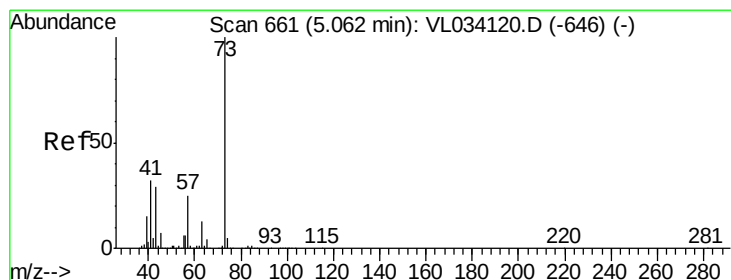
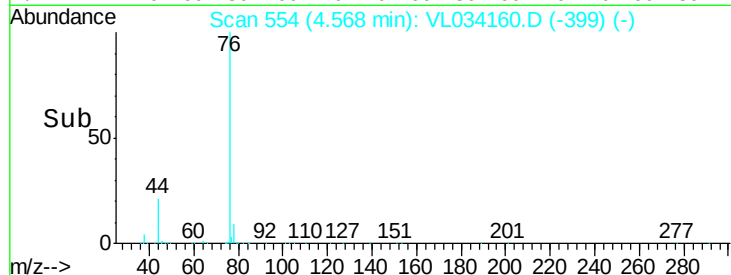
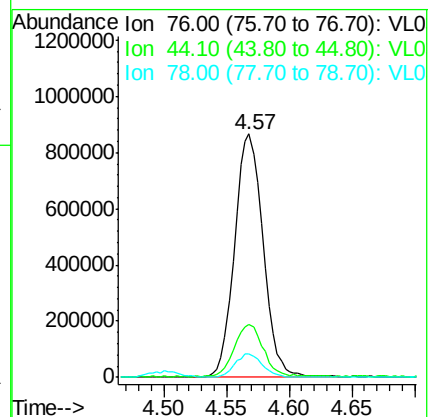
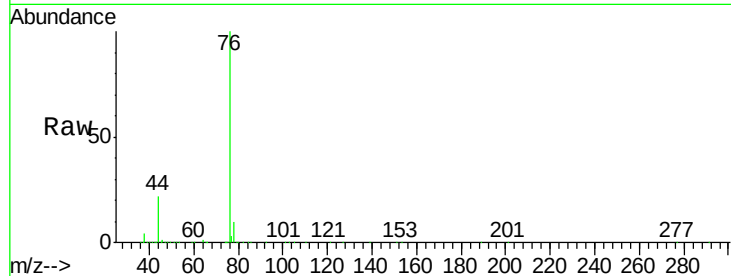
78 9.4 7.3 10.9

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#28

Methyl tert-Butyl Ether

Concen: 9.225 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL034160.D

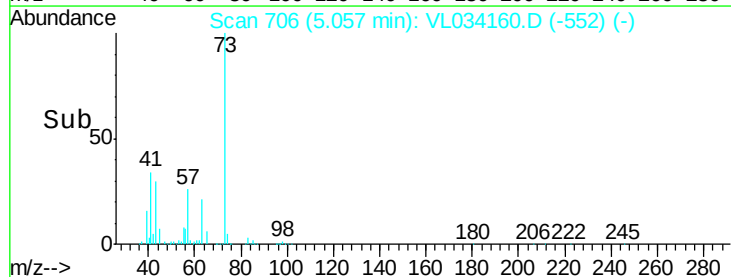
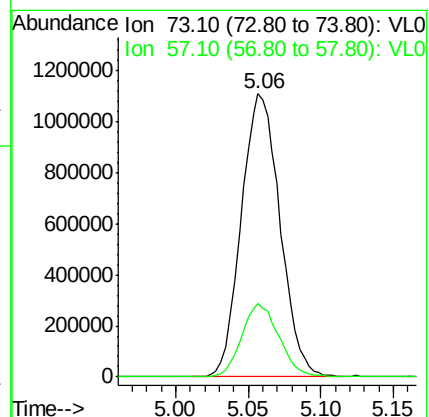
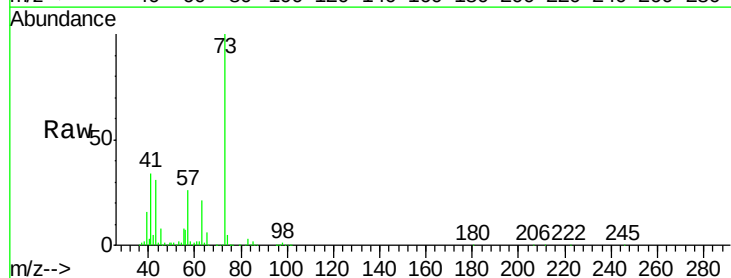
Acq: 12 Sep 2019 15:49

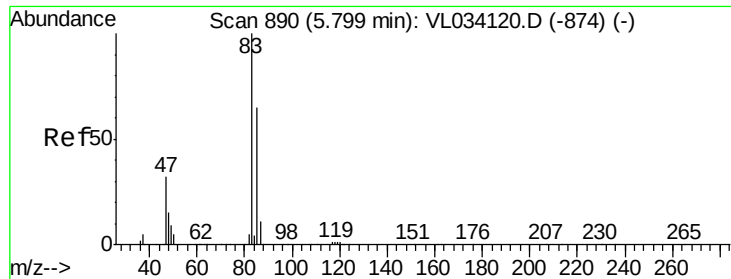
Tgt Ion: 73 Resp: 2056604

Ion Ratio Lower Upper

73 100

57 24.9 19.8 29.8





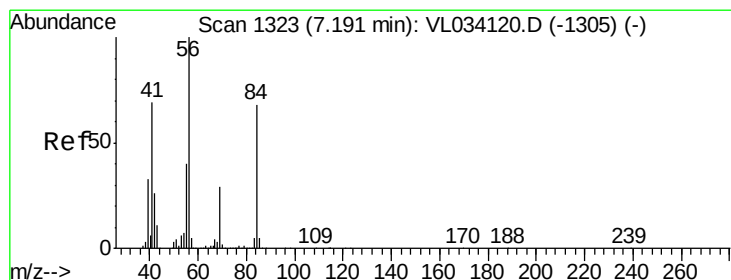
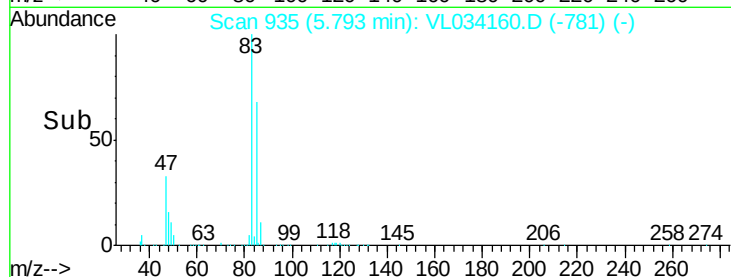
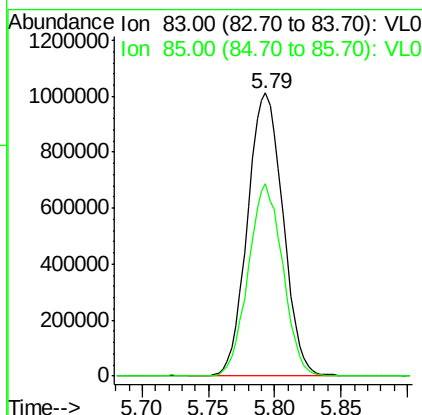
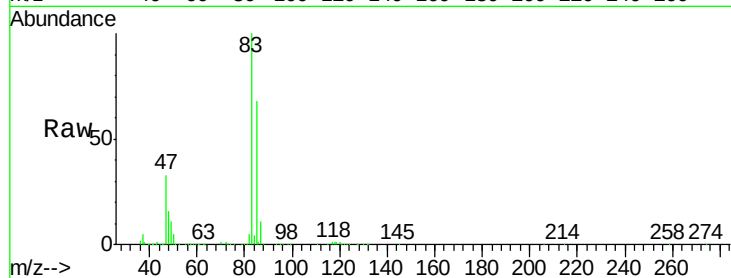
#29
Chloroform
Concen: 9.156 ppbv
RT: 5.79 min Scan# 935
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1879187
Ion Ratio Lower Upper
83 100
85 67.6 51.8 77.6

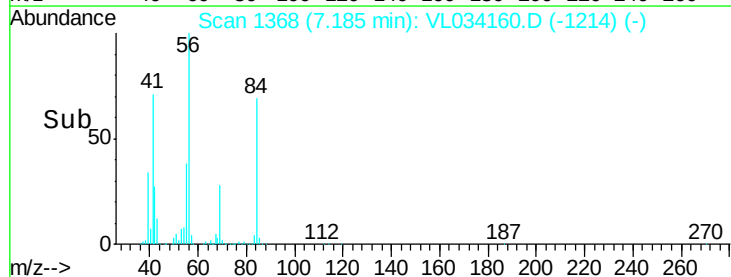
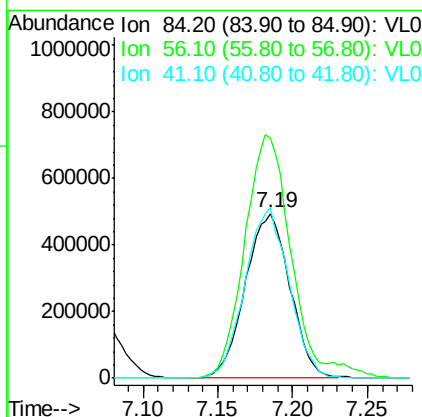
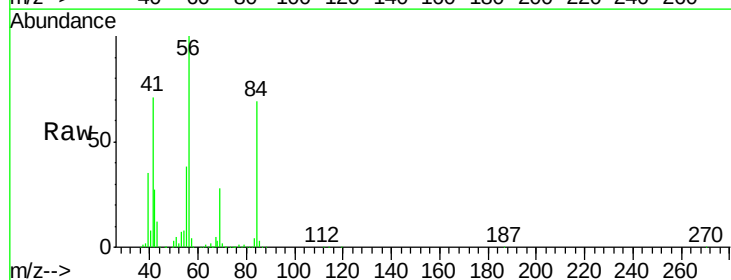
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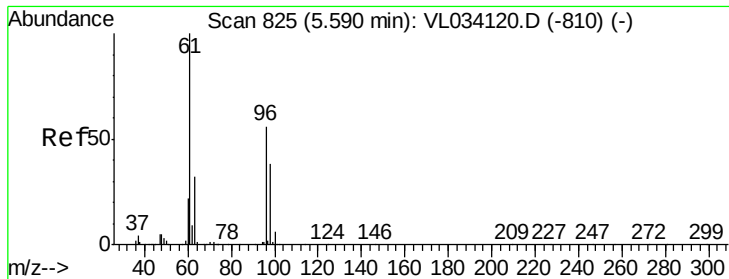
MMDadoda
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#30
Cyclohexane
Concen: 9.334 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion: 84 Resp: 1026806
Ion Ratio Lower Upper
84 100
56 155.4 122.6 183.8
41 101.8 79.1 118.7





#31

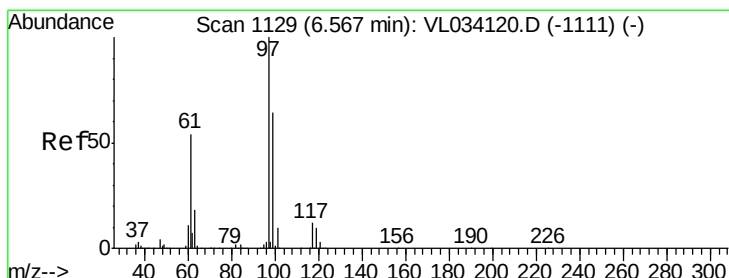
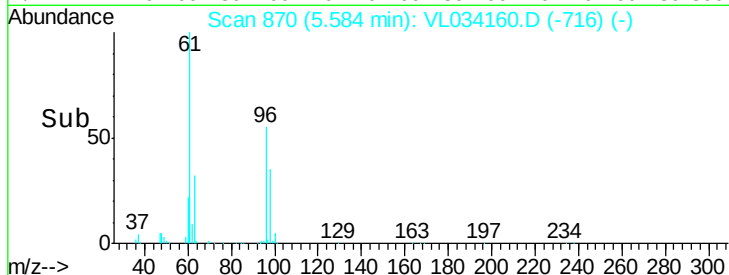
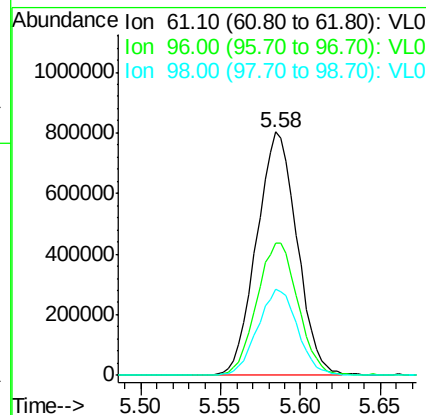
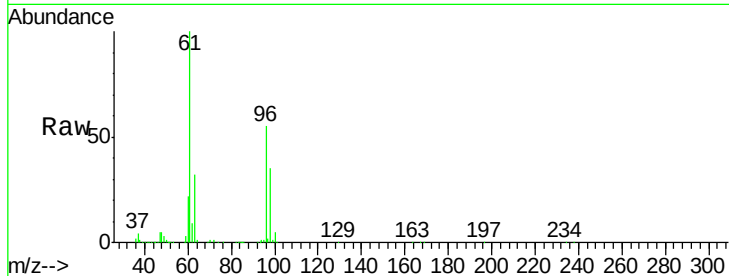
cis-1,2-Dichloroethene
Concen: 9.554 ppbv
RT: 5.58 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	61	Resp	1392265
Ion	Ratio	Lower	Upper
61	100		
96	54.5	44.4	66.6
98	35.5	30.0	45.0

Manual Integrations
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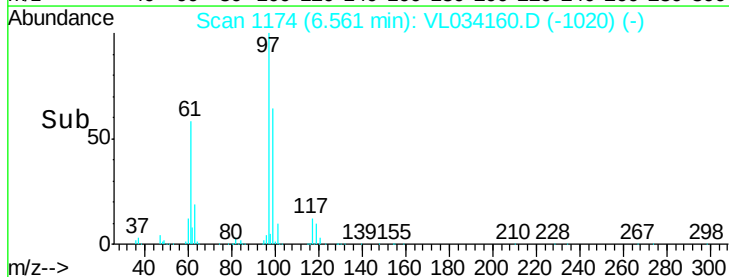
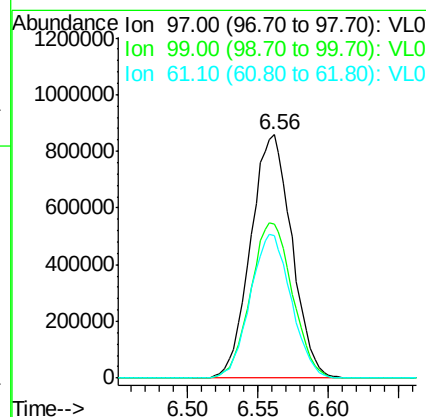
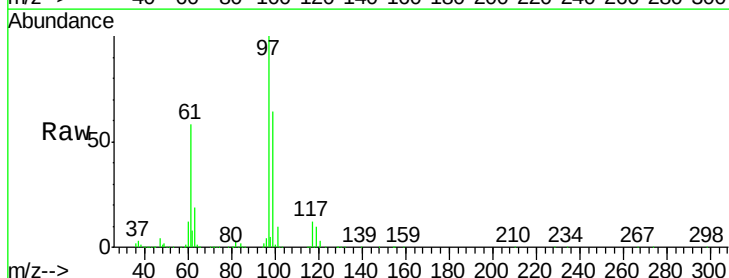
MMDadoda
9/14/2019 12:09:45 AM

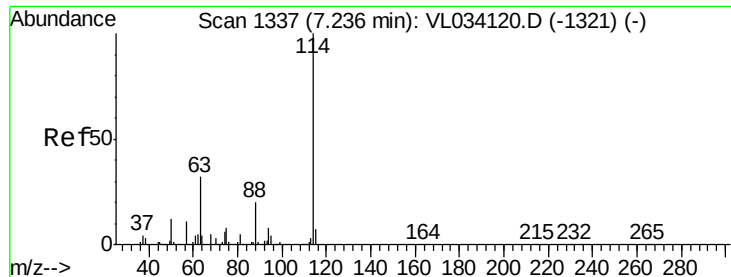


#32

1,1,1-Trichloroethane
Concen: 9.037 ppbv
RT: 6.56 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	97	Resp	1752384
Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.7	77.5
61	58.8	44.0	66.0





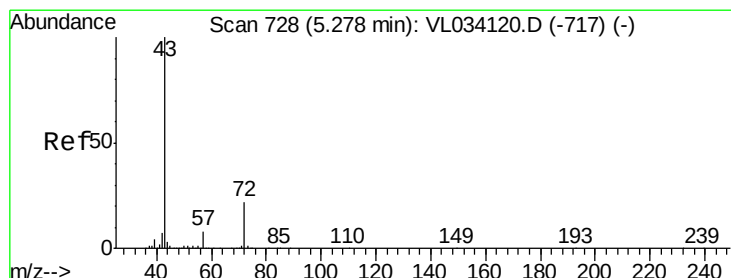
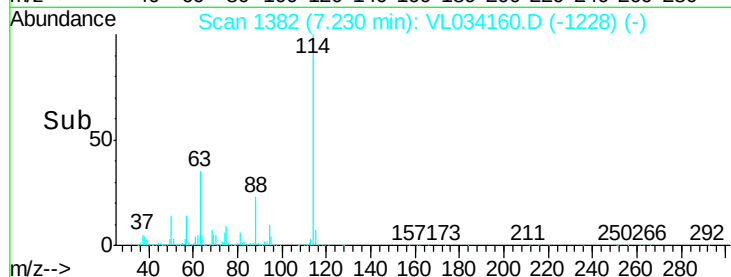
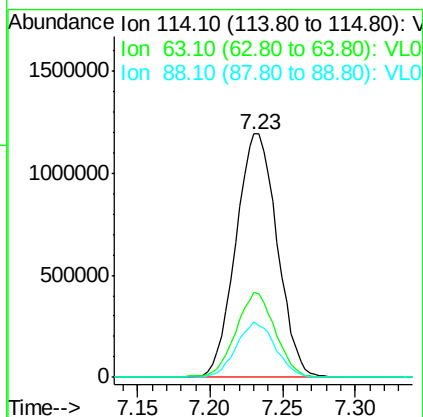
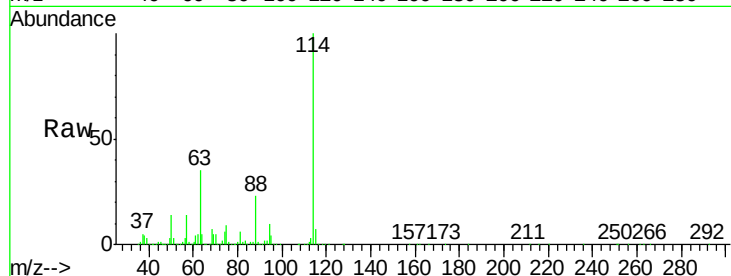
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.5	25.5	38.3
88	21.4	16.8	25.2

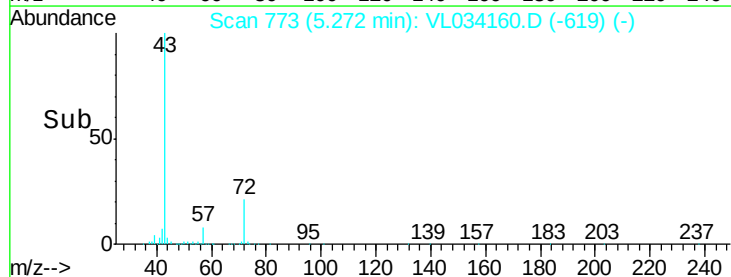
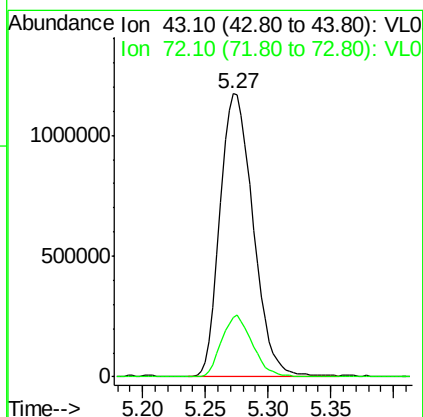
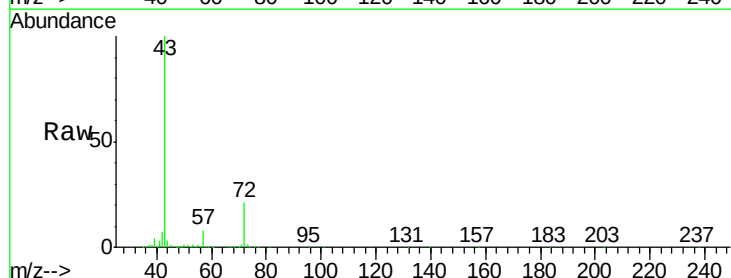
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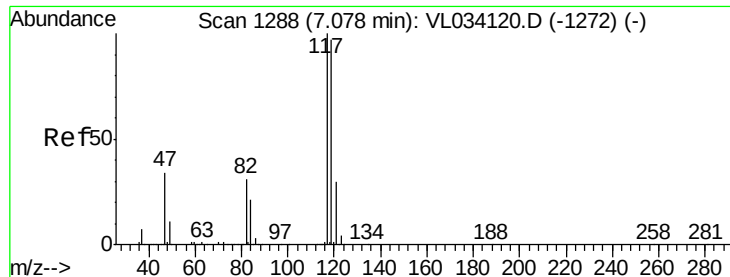
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#34
 2-Butanone
 Concen: 9.454 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. -0.01 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	16.5	24.7





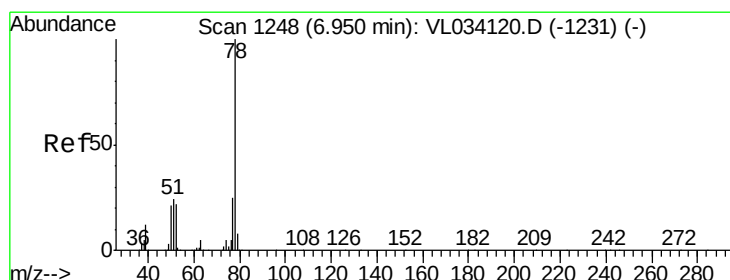
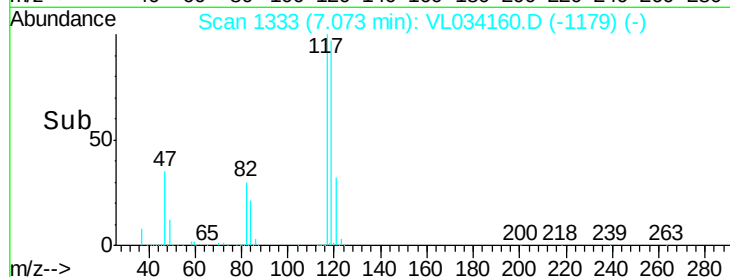
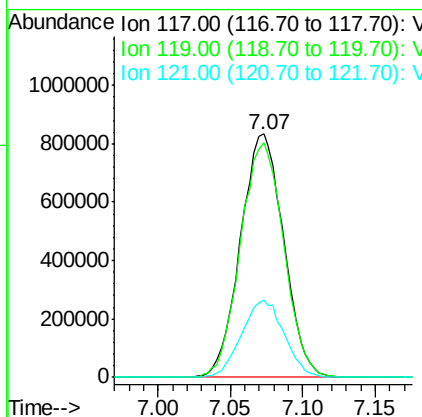
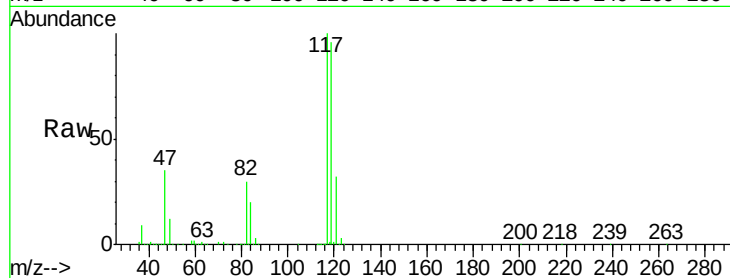
#35
Carbon Tetrachloride
Concen: 9.357 ppbv
RT: 7.07 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion:117 Resp: 1725554
Ion Ratio Lower Upper
117 100
119 96.1 77.2 115.8
121 31.5 24.2 36.4

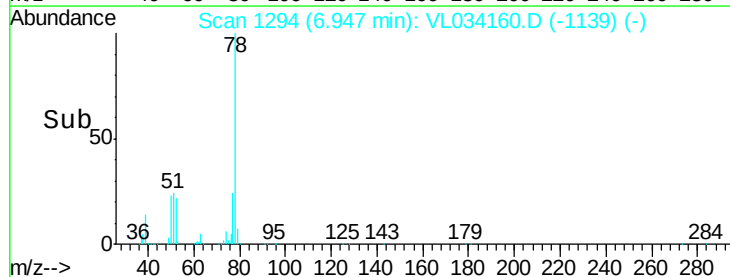
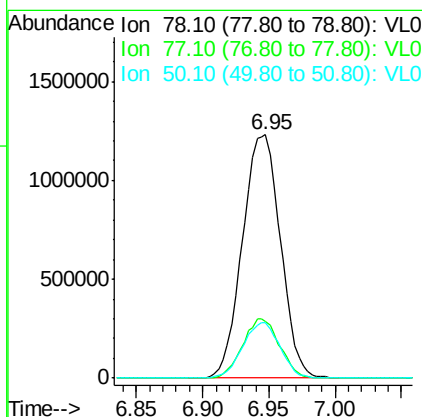
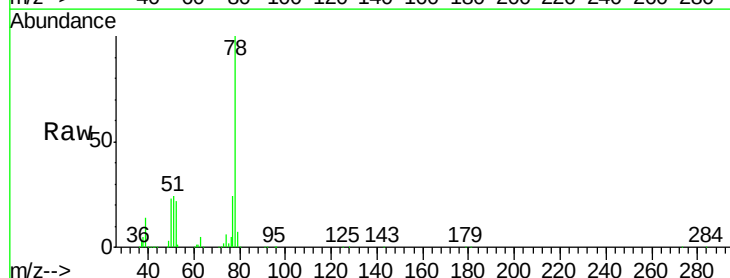
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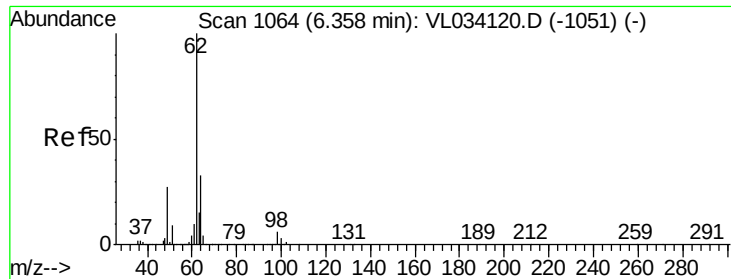
MMDadoda
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#36
Benzene
Concen: 9.098 ppbv
RT: 6.95 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion: 78 Resp: 2459747
Ion Ratio Lower Upper
78 100
77 23.5 20.3 30.5
50 22.7 16.9 25.3





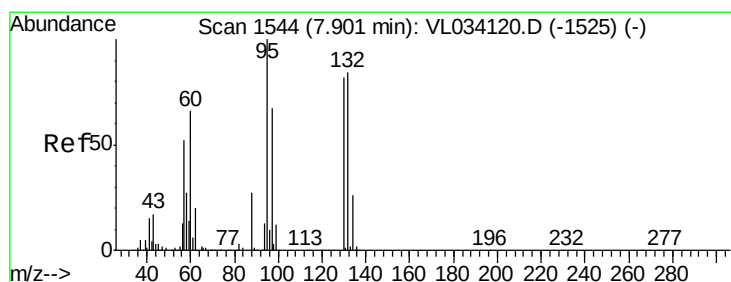
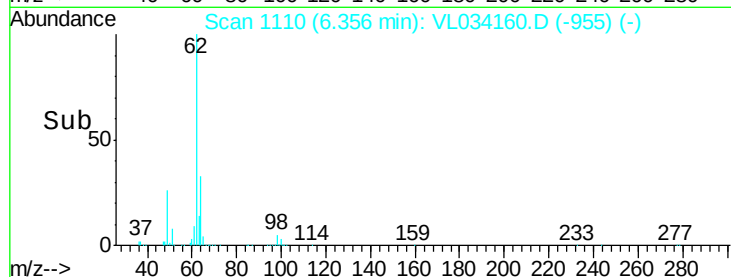
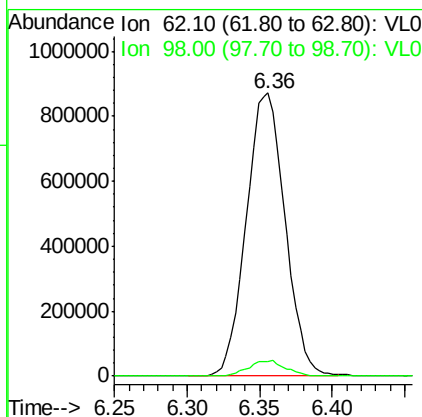
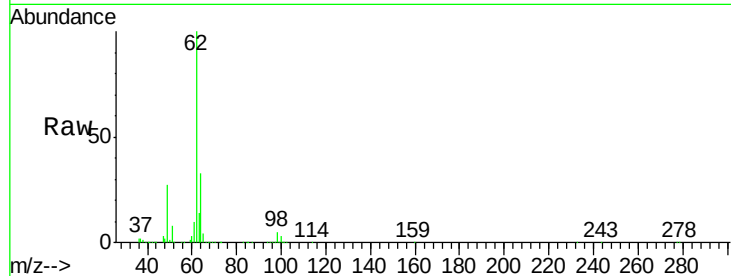
#37
 1,2-Dichloroethane
 Concen: 9.784 ppbv
 RT: 6.36 min Scan# 1110
 Delta R.T. -0.00 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1622798
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.4 6.6

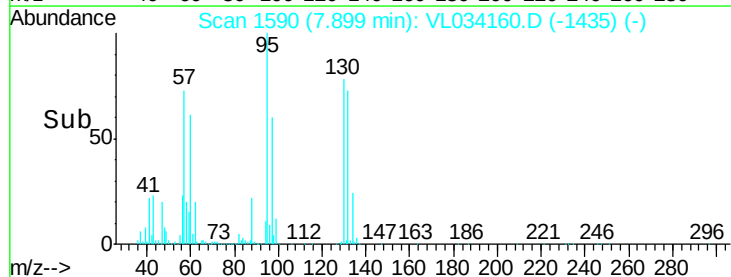
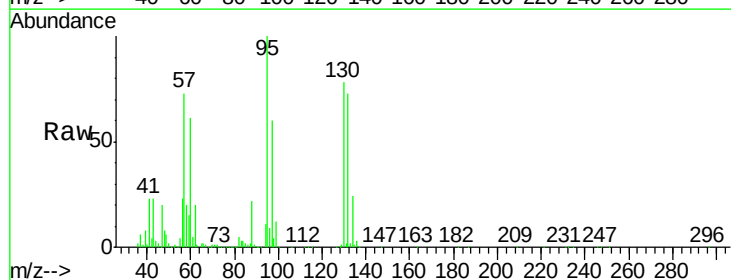
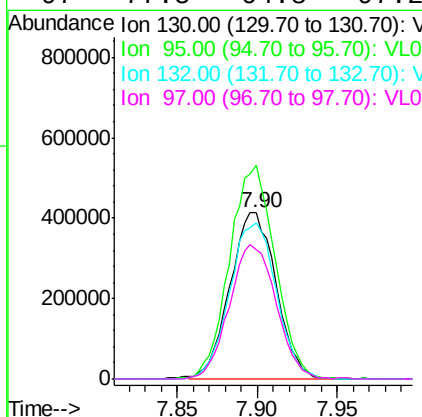
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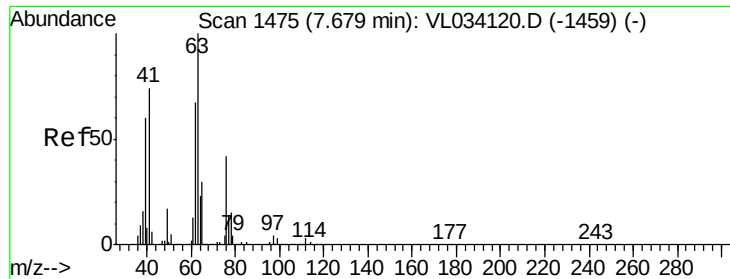
MMDadoda
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#38
 Trichloroethene
 Concen: 8.010 ppbv
 RT: 7.90 min Scan# 1590
 Delta R.T. -0.00 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Tgt Ion: 130 Resp: 808095
 Ion Ratio Lower Upper
 130 100
 95 128.6 97.2 145.8
 132 94.1 81.4 122.2
 97 77.5 64.8 97.2





#39

1,2-Dichloropropane

Concen: 9.426 ppbv

RT: 7.67 min Scan# 1520

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1090664

Ion Ratio Lower Upper

63 100

41 77.5 59.3 88.9

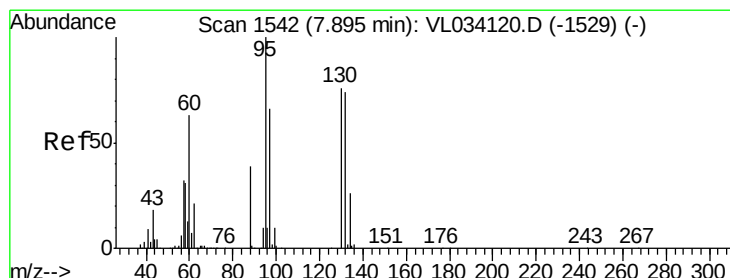
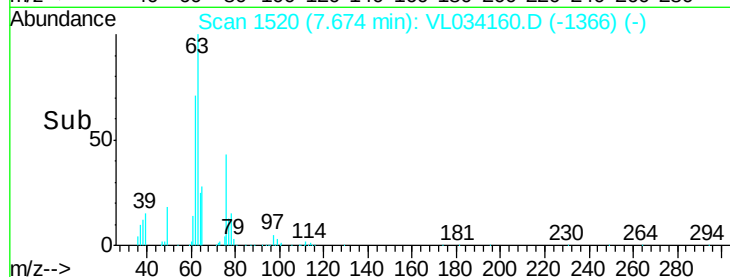
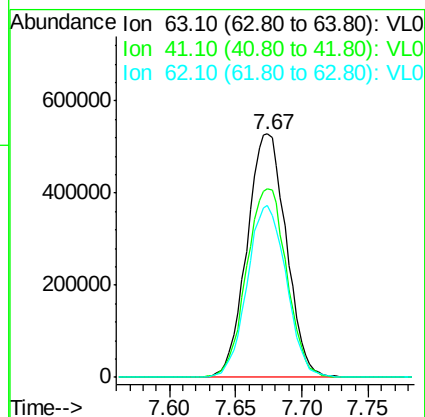
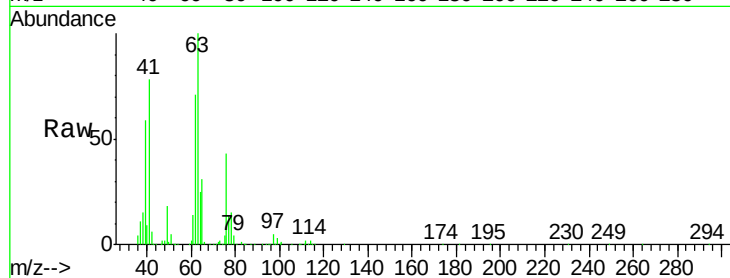
62 70.5 53.8 80.6

Manual Integrations

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#40

1,4-Dioxane

Concen: 7.292 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Tgt Ion: 88 Resp: 310089

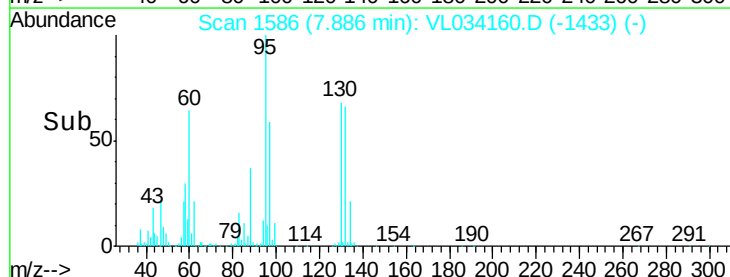
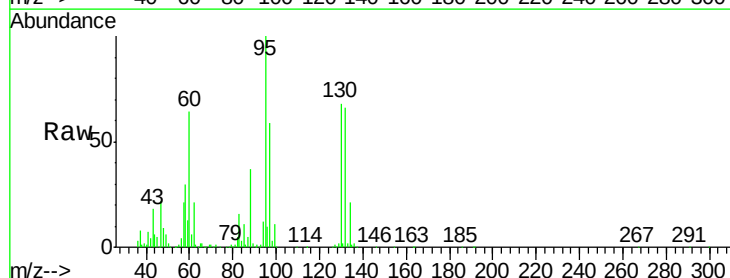
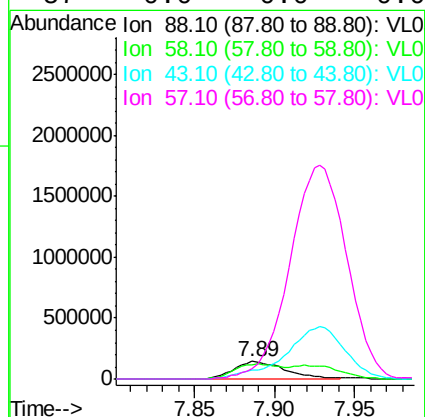
Ion Ratio Lower Upper

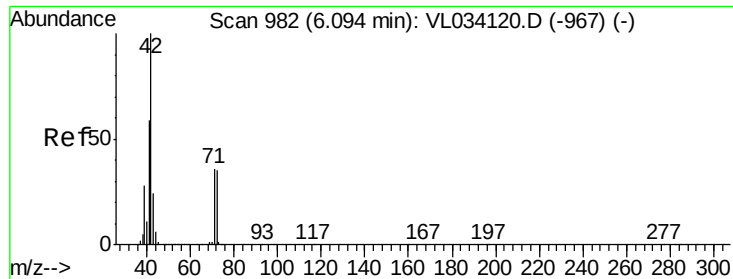
88 100

58 84.0 121.7 182.5#

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.661 ppbv

RT: 6.09 min Scan# 1027

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 42 Resp: 1317067

Ion Ratio Lower Upper

42 100

72 33.5 27.7 41.5

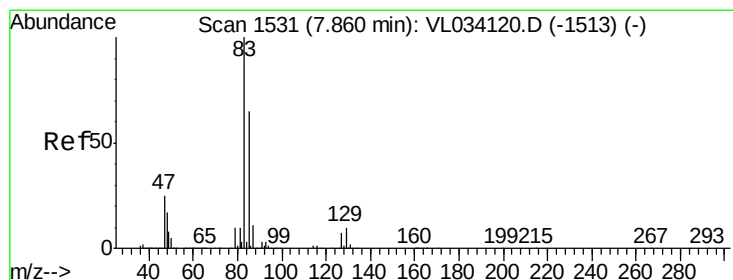
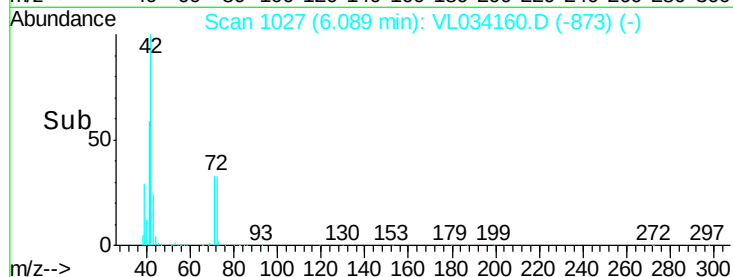
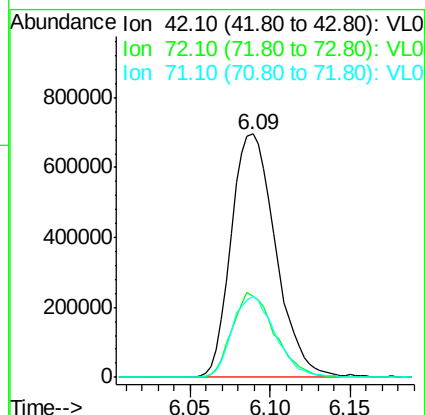
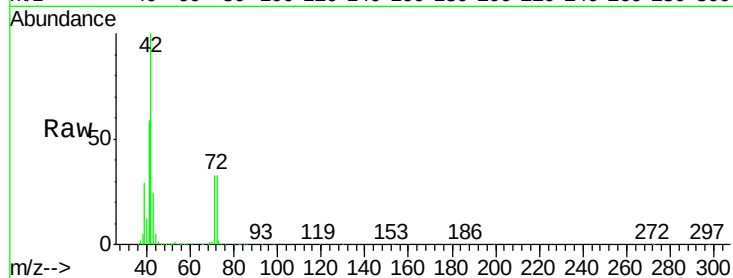
71 32.6 26.7 40.1

Manual Integrations

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#42

Bromodichloromethane

Concen: 9.632 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

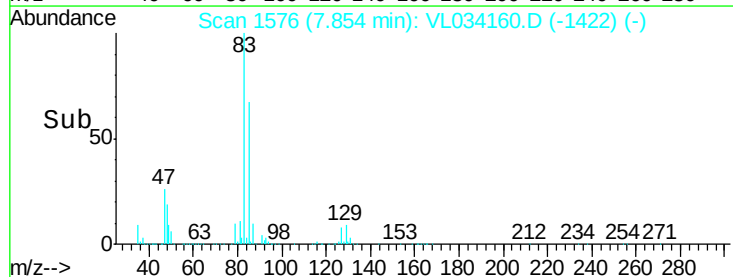
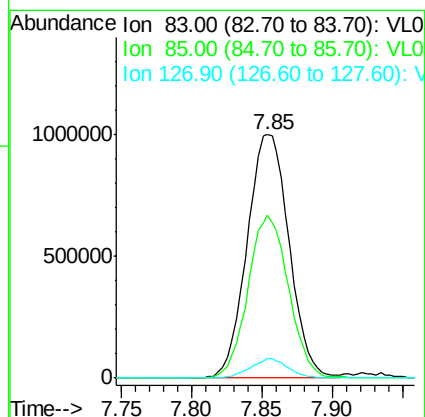
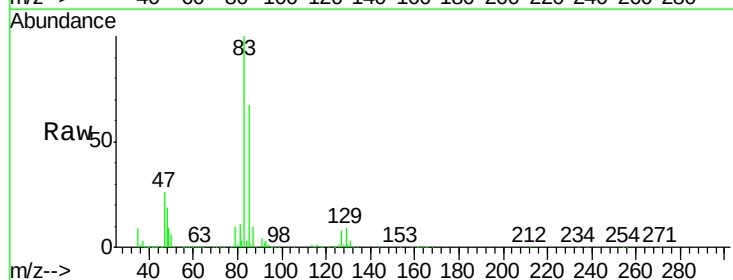
Tgt Ion: 83 Resp: 2082096

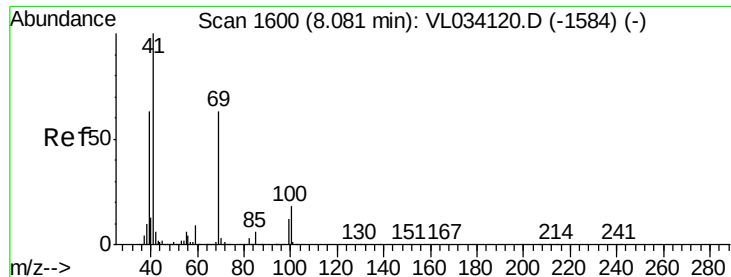
Ion Ratio Lower Upper

83 100

85 67.1 51.6 77.4

127 8.0 5.4 8.0





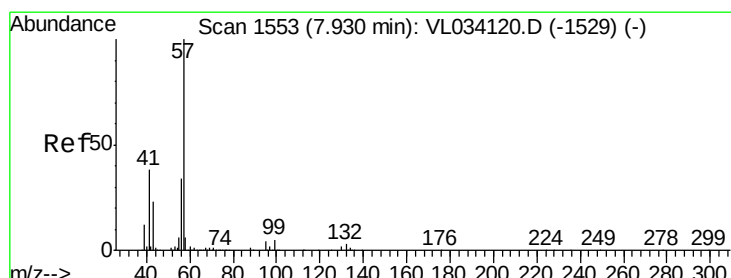
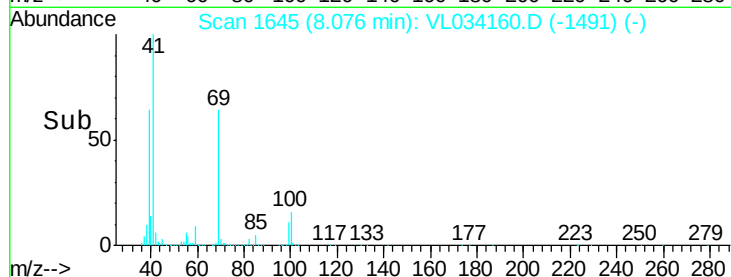
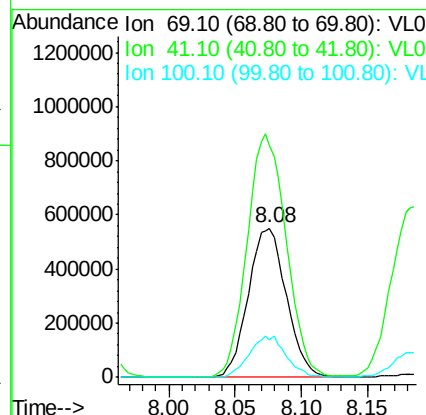
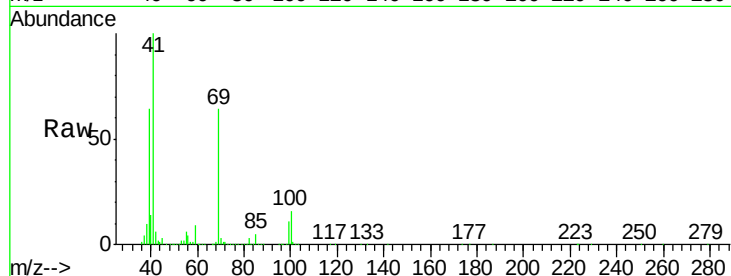
#43
Methvl Methacrylate
Concen: 9.896 ppbv
RT: 8.08 min Scan# 1645
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1102222
Ion Ratio Lower Upper
69 100
41 166.9 131.0 196.6
100 27.0 22.6 33.8

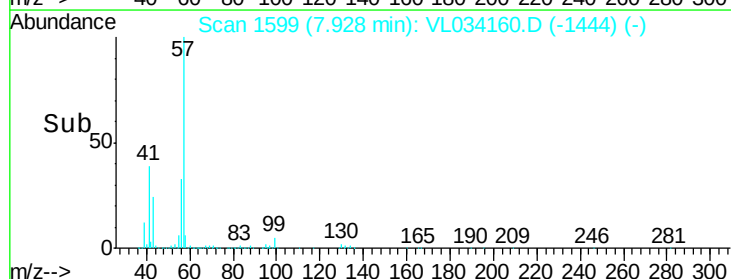
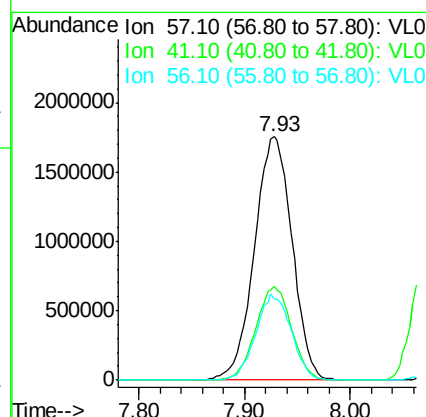
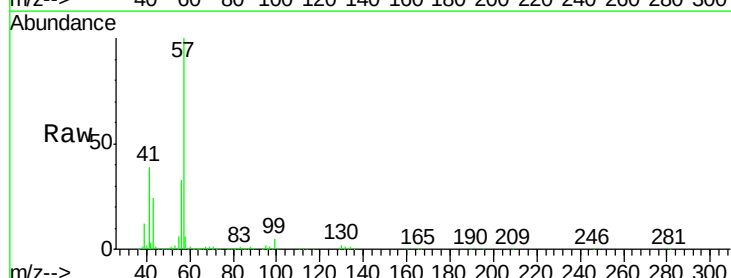
Manual Integrations
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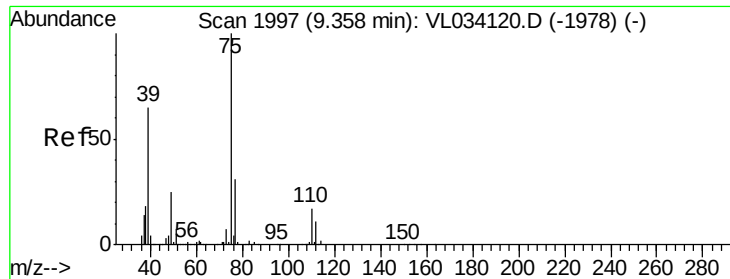
MMDadoda
9/14/2019 12:09:45 AM



#44
2,2,4-Trimethylpentane
Concen: 8.753 ppbv
RT: 7.93 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion: 57 Resp: 4363356
Ion Ratio Lower Upper
57 100
41 36.6 28.4 42.6
56 33.0 26.3 39.5





#45

t-1,3-Dichloropropene

Concen: 10.662 ppbv

RT: 9.35 min Scan# 2042

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1395823

Ion Ratio Lower Upper

75 100

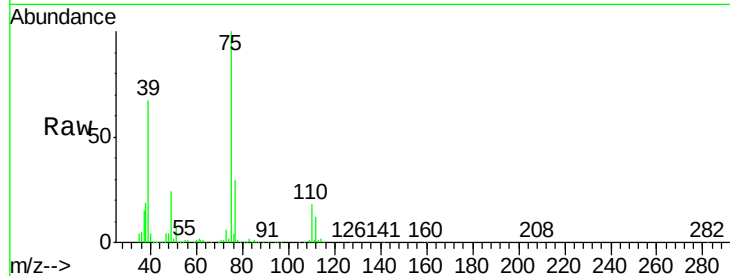
77 29.8 24.6 36.8

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.35

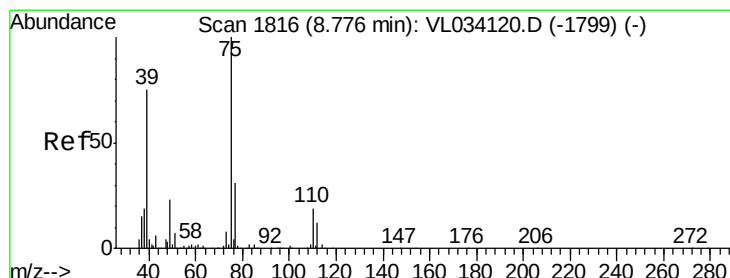
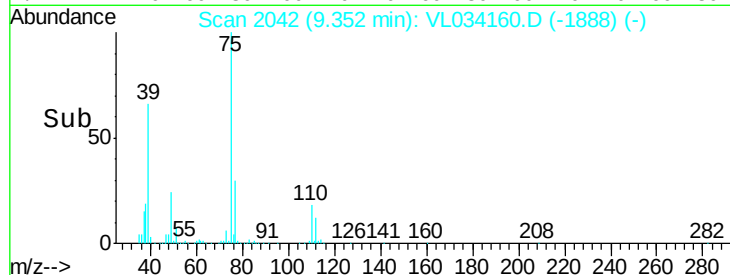
600000

400000

200000

0

Time--> 9.25 9.30 9.35 9.40 9.45



#46

cis-1,3-Dichloropropene

Concen: 9.930 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

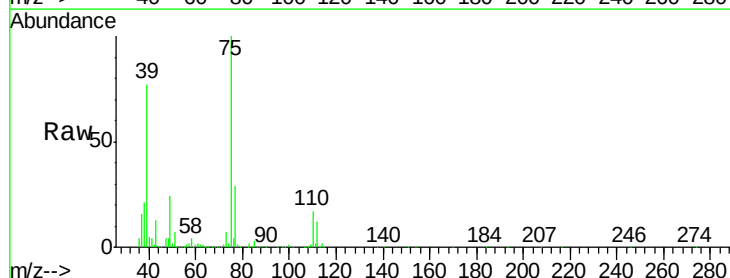
Tgt Ion: 75 Resp: 1581454

Ion Ratio Lower Upper

75 100

39 77.3 60.0 90.0

77 28.8 24.8 37.2



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.77

1000000

800000

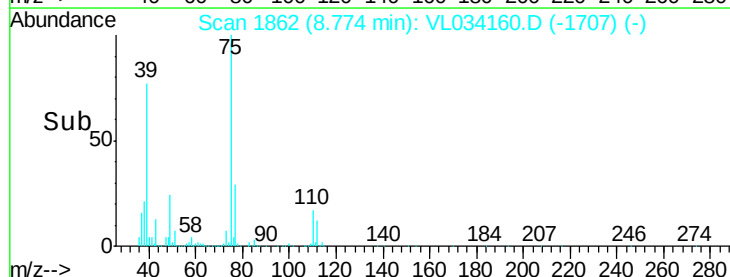
600000

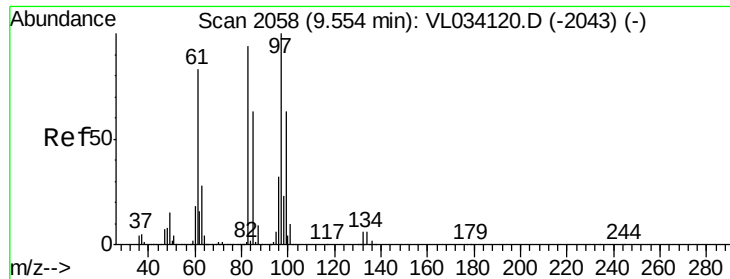
400000

200000

0

Time--> 8.70 8.75 8.80 8.85





#47

1,1,2-Trichloroethane

Concen: 9.332 ppbv

RT: 9.55 min Scan# 2103

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

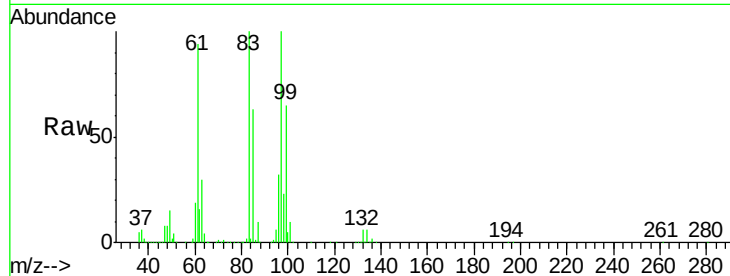
ClientSampleId :

VSTDCCC010

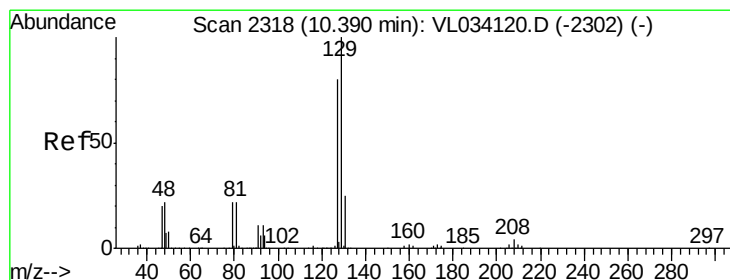
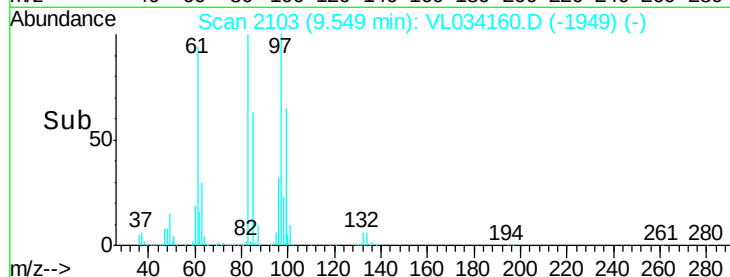
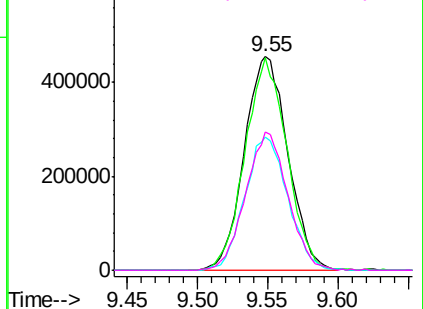
Tot Ion:	97	Resp:	983697
Ion Ratio	Lower	Upper	
97	100		
83	99.6	74.9	112.3
85	62.6	50.6	75.8
99	64.7	50.2	75.2

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.049 ppbv

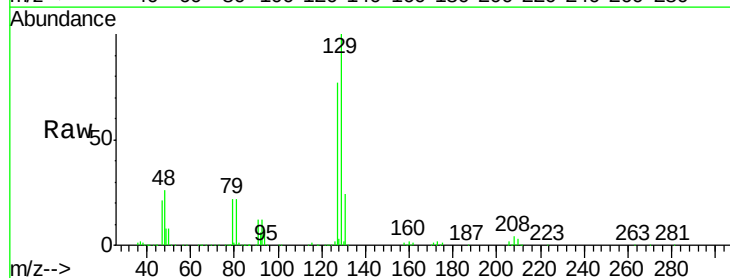
RT: 10.38 min Scan# 2362

Delta R.T. -0.01 min

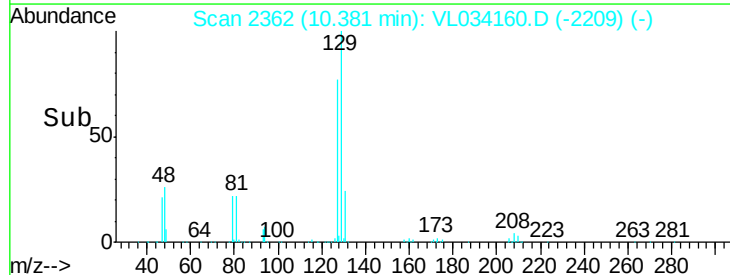
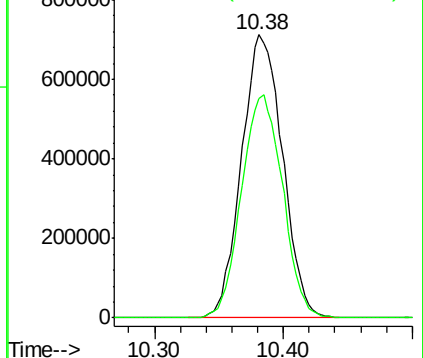
Lab File: VL034160.D

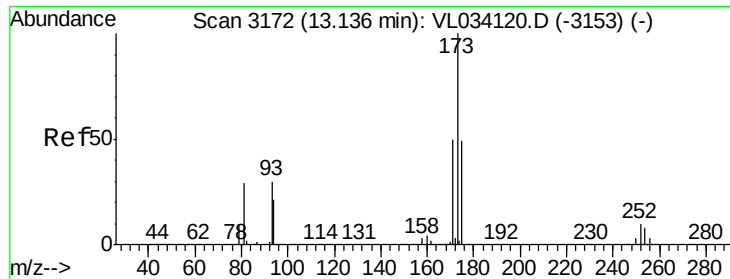
Acq: 12 Sep 2019 15:49

Tgt Ion:	129	Resp:	1580645
Ion Ratio	Lower	Upper	
129	100		
127	78.9	40.2	120.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





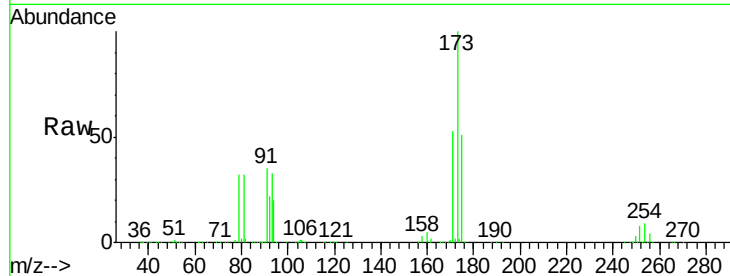
#49
Bromoform
Concen: 9.767 ppbv
RT: 13.13 min Scan# 3217
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

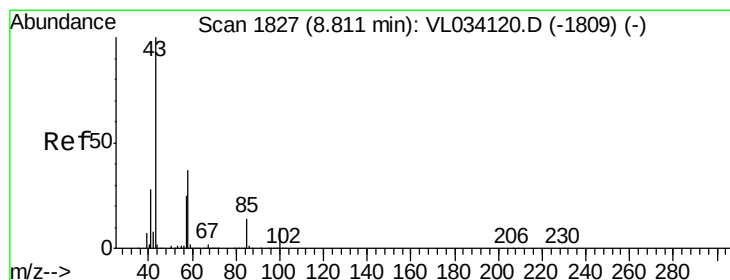
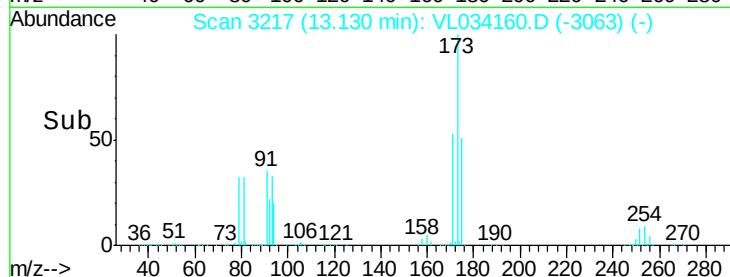
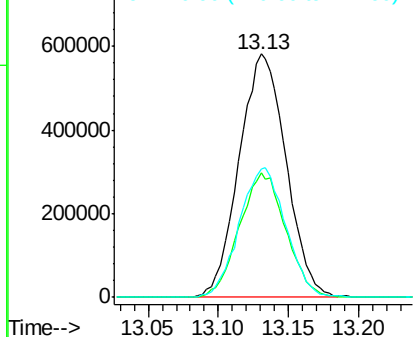
Tot Ion	Ratio	Lower	Upper
173	100		
175	50.8	40.0	60.0
171	53.2	42.2	63.2

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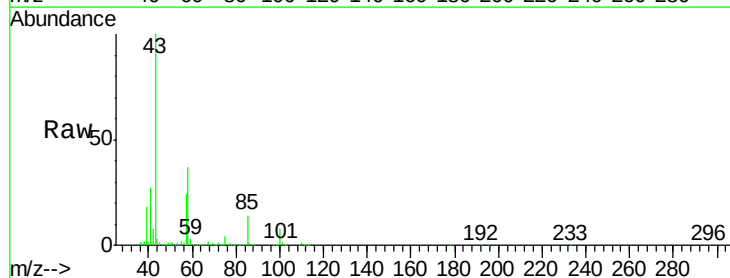


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

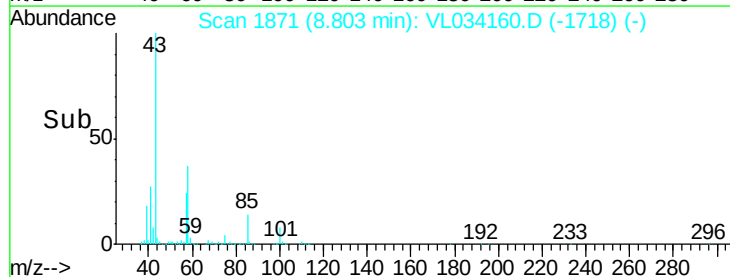
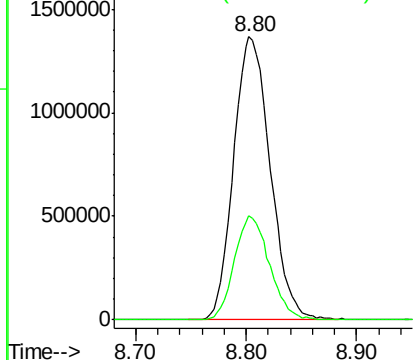


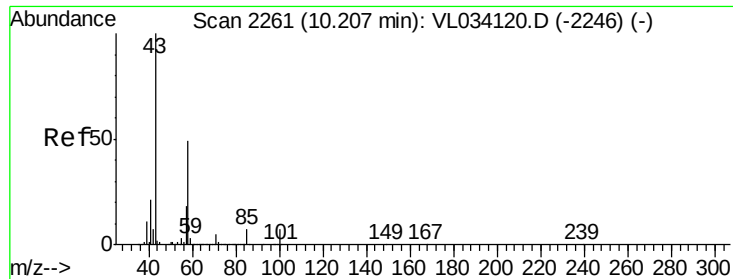
#50
4-Methyl-2-Pentanone
Concen: 9.045 ppbv
RT: 8.80 min Scan# 1871
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.5	42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





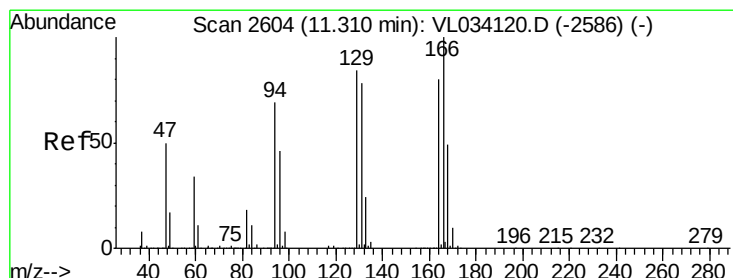
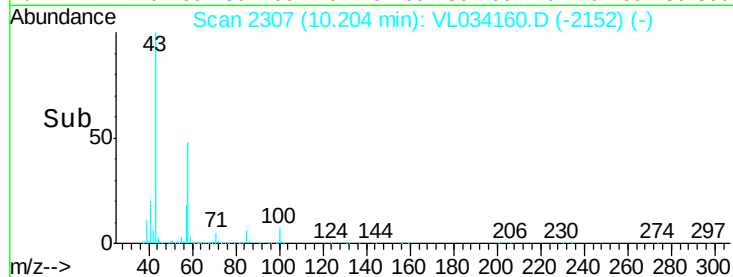
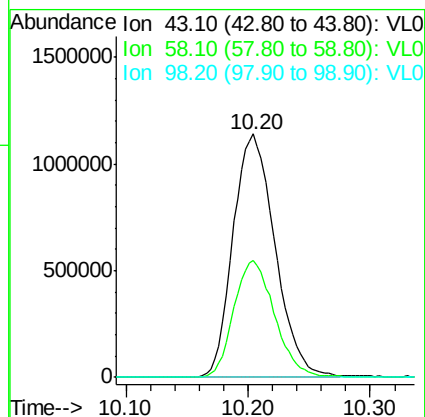
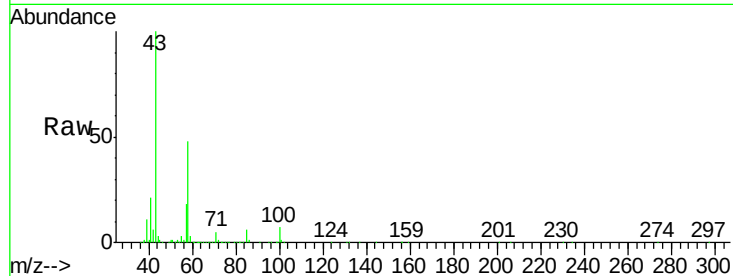
#51
2-Hexanone
Concen: 9.090 ppbv
RT: 10.20 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 43 Resp: 2724889
Ion Ratio Lower Upper
43 100
58 46.7 38.2 57.2
98 0.2 0.1 0.1#

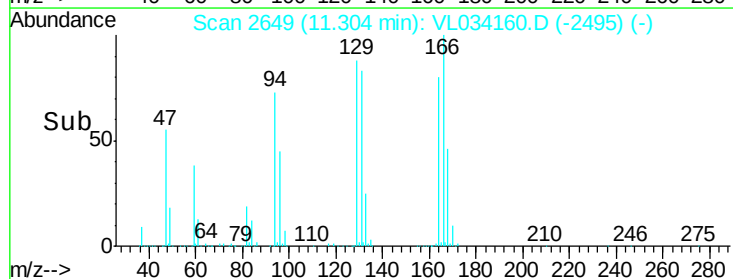
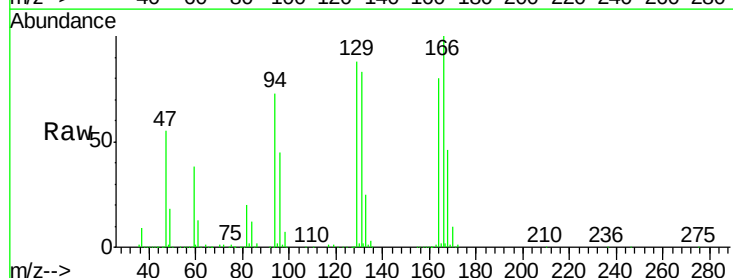
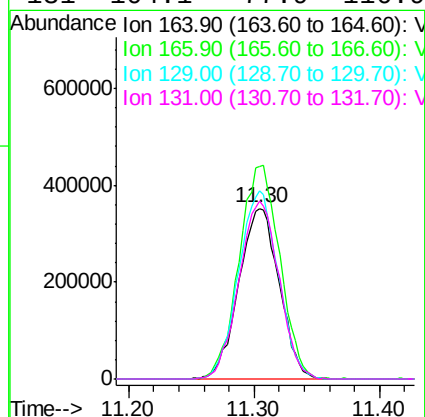
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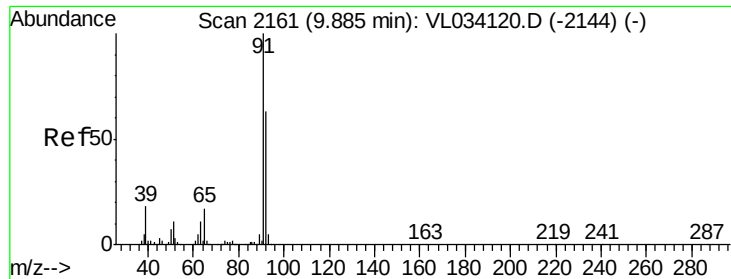
MMDadoda
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#52
Tetrachloroethene
Concen: 8.240 ppbv
RT: 11.30 min Scan# 2649
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion: 164 Resp: 785584
Ion Ratio Lower Upper
164 100
166 125.1 99.5 149.3
129 110.2 83.6 125.4
131 104.1 77.9 116.9





#53

Toluene

Concen: 9.073 ppbv

RT: 9.88 min Scan# 2206

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2713047

Ion Ratio Lower Upper

91 100

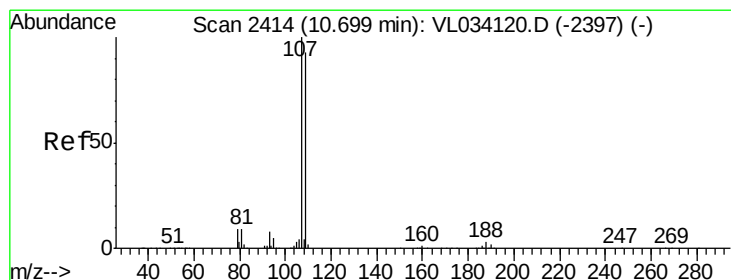
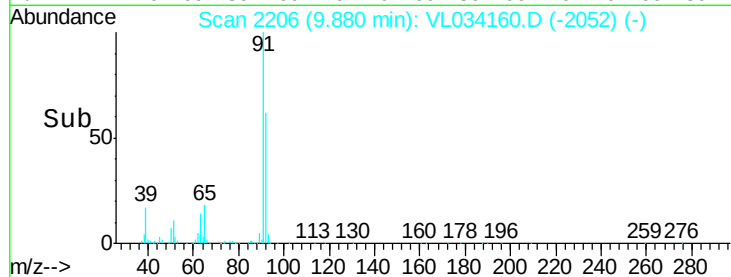
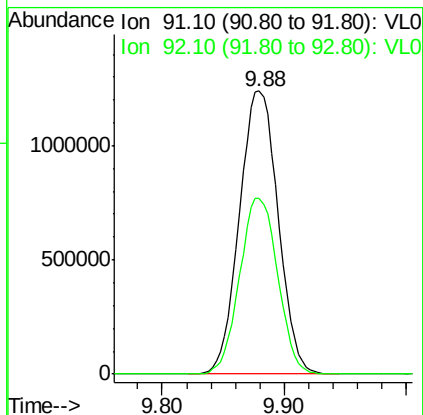
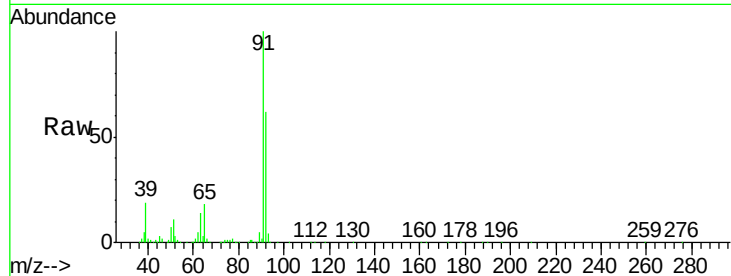
92 61.3 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 9.297 ppbv

RT: 10.69 min Scan# 2458

Delta R.T. -0.01 min

Lab File: VL034160.D

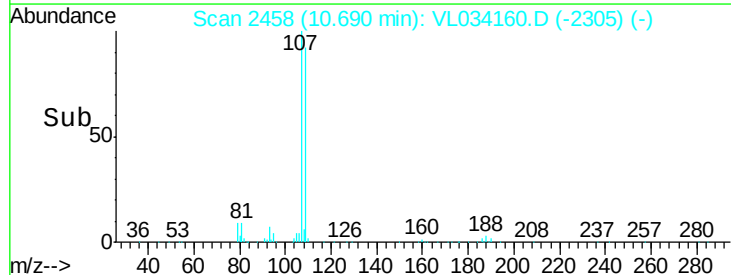
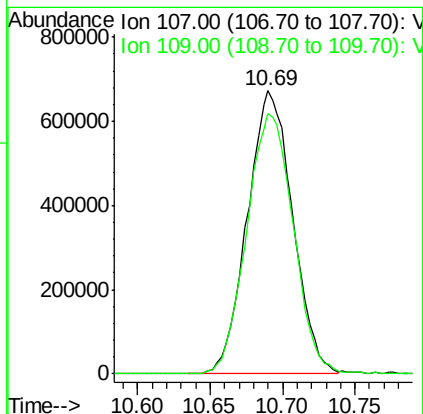
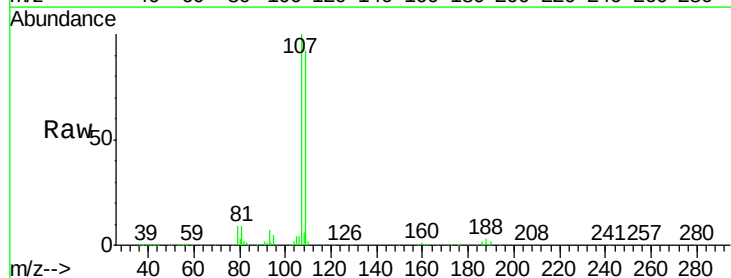
Acq: 12 Sep 2019 15:49

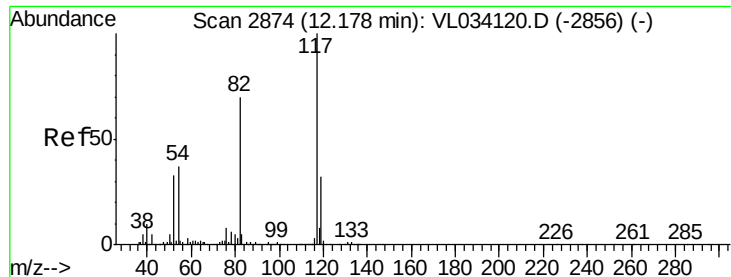
Tgt Ion: 107 Resp: 1459995

Ion Ratio Lower Upper

107 100

109 91.8 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.17 min Scan# 2919

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2641332

Ion Ratio Lower Upper

117 100

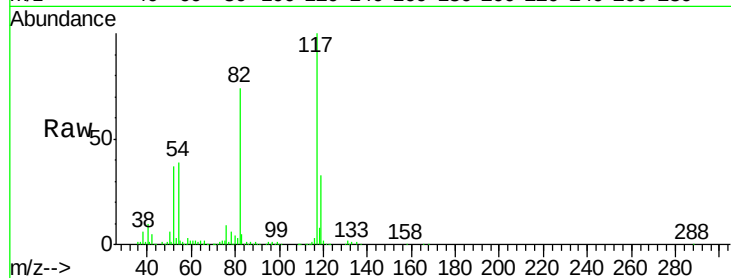
82 70.9 55.8 83.6

119 28.5 43.1 64.7#

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MMDadoda

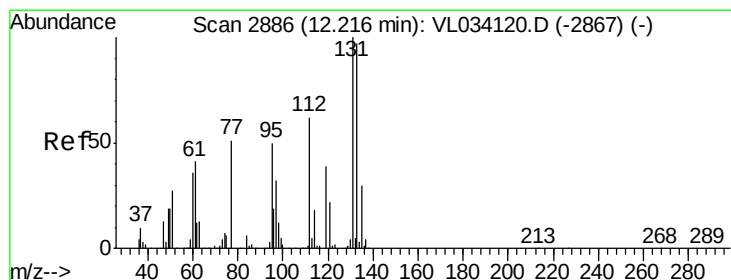
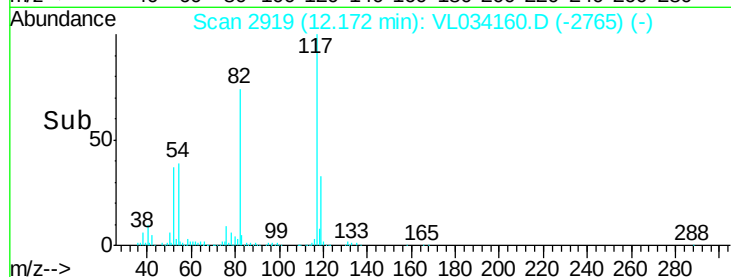
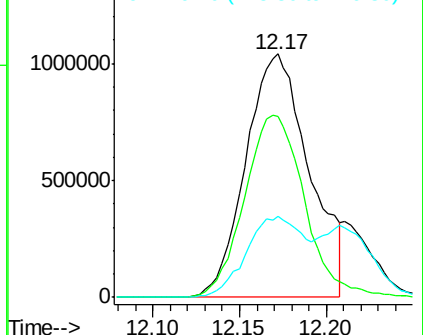
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.047 ppbv

RT: 12.21 min Scan# 2931

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

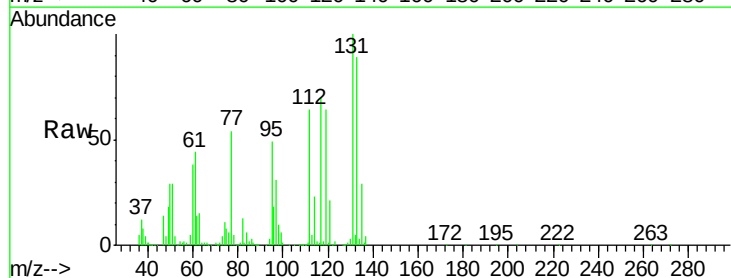
Tgt Ion:131 Resp: 1024907

Ion Ratio Lower Upper

131 100

133 95.1 75.8 113.6

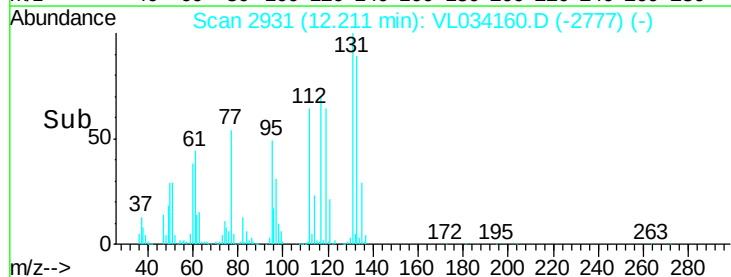
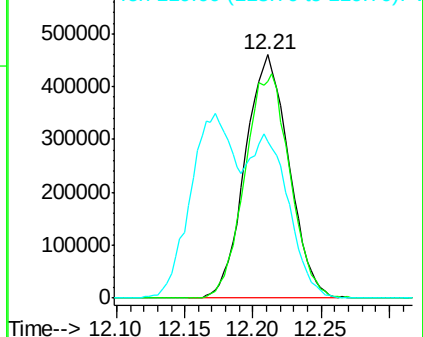
119 57.0 114.7 172.1#

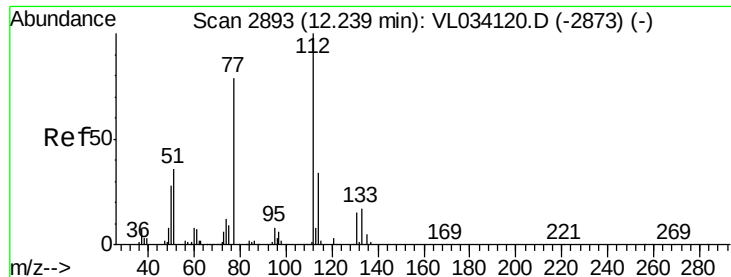


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





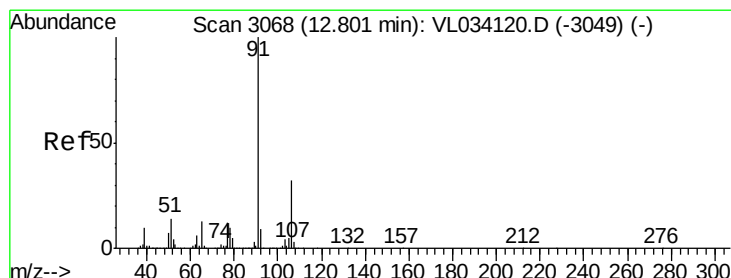
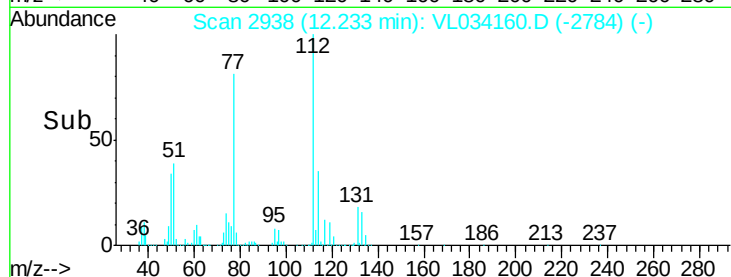
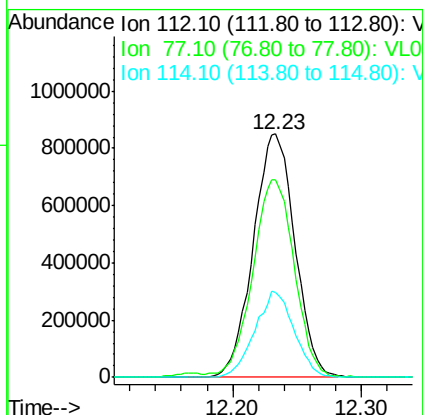
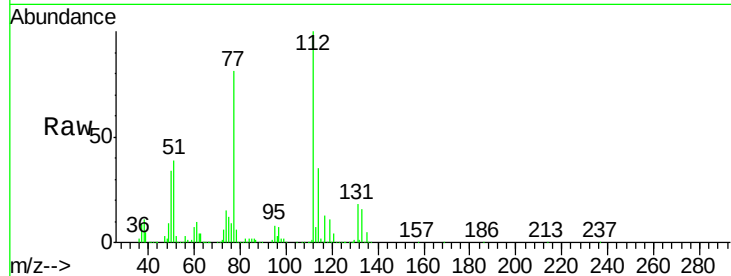
#57
Chlorobenzene
Concen: 8.390 ppbv
RT: 12.23 min Scan# 2938
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	80.5	64.4	96.6
114	34.8	30.3	37.1

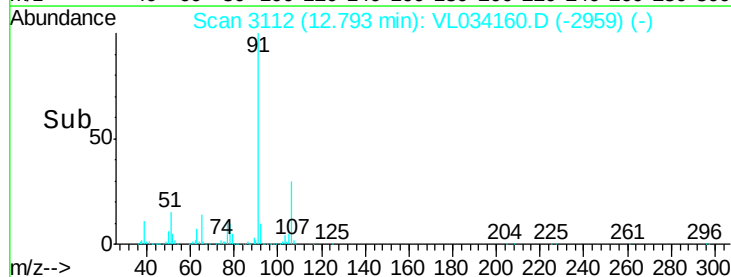
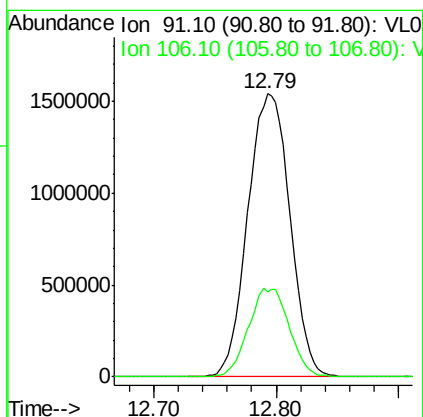
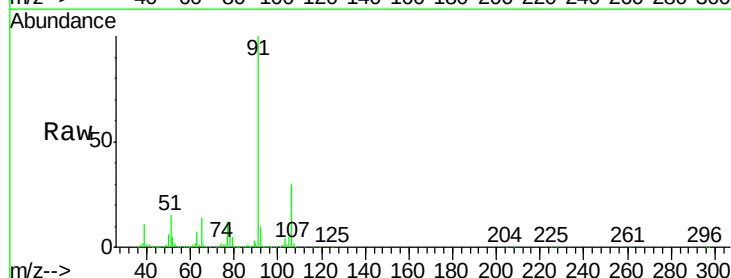
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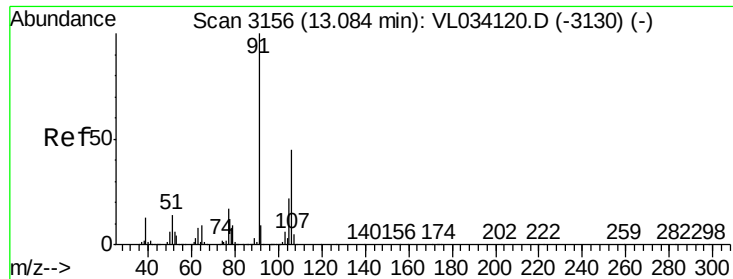
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#58
Ethyl Benzene
Concen: 8.500 ppbv
RT: 12.79 min Scan# 3112
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	25.3	37.9





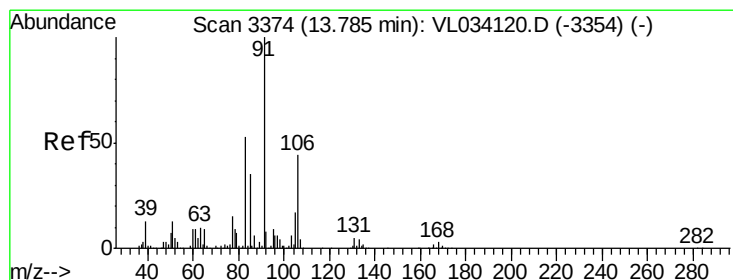
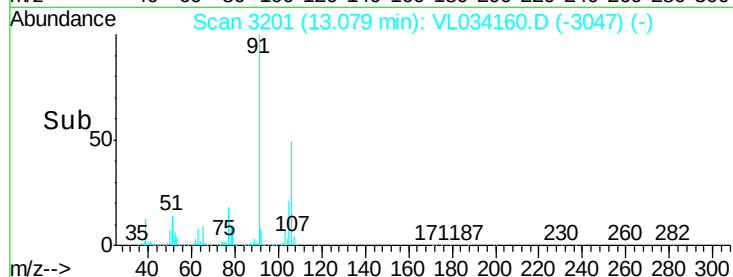
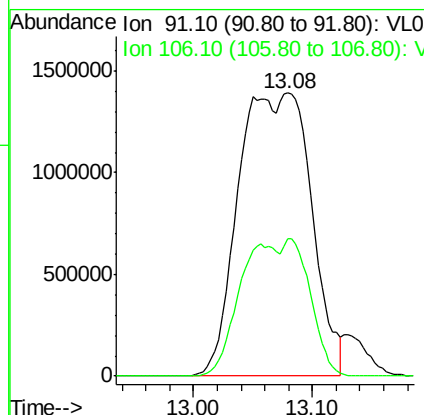
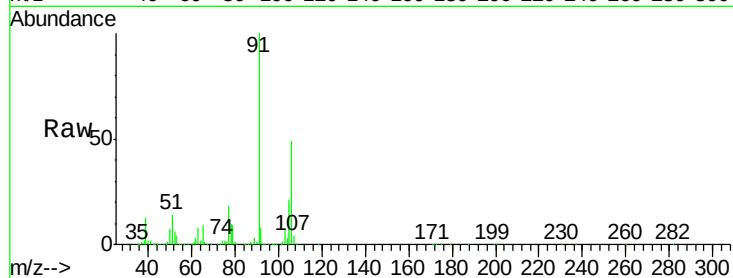
#59
m/p-Xylene
Concen: 16.742 ppbv m
RT: 13.08 min Scan# 3201
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5915219
Ion Ratio Lower Upper
91 100
106 44.9 35.4 53.2

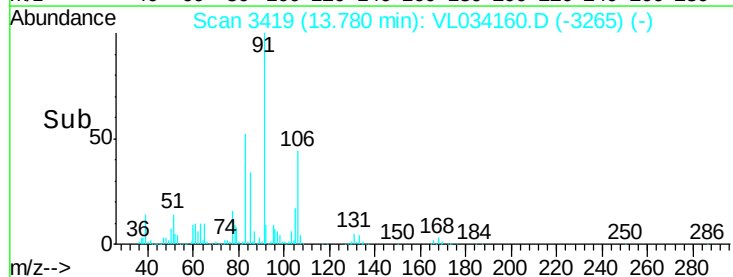
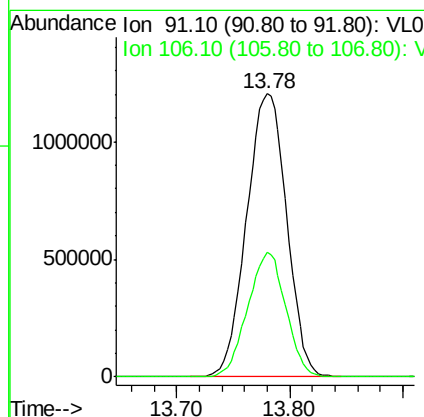
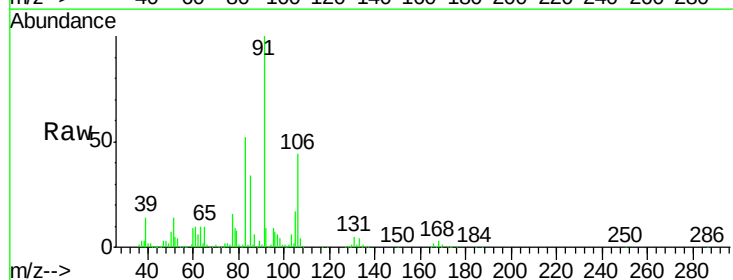
Manual Integrations
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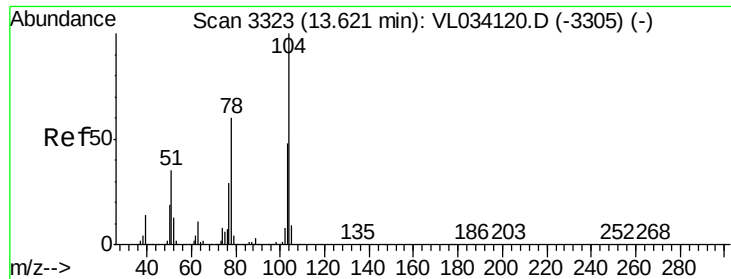
MMDadoda
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#60
o-Xylene
Concen: 8.407 ppbv
RT: 13.78 min Scan# 3419
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion: 91 Resp: 2958503
Ion Ratio Lower Upper
91 100
106 41.9 21.4 64.3





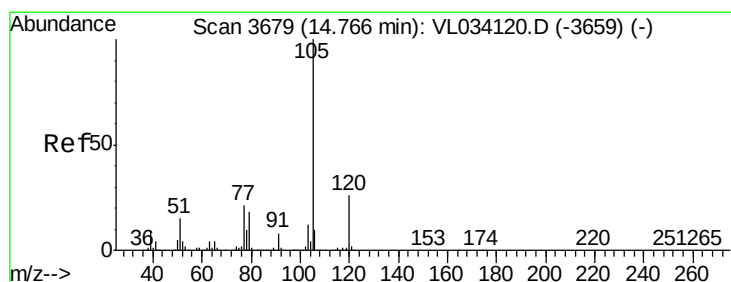
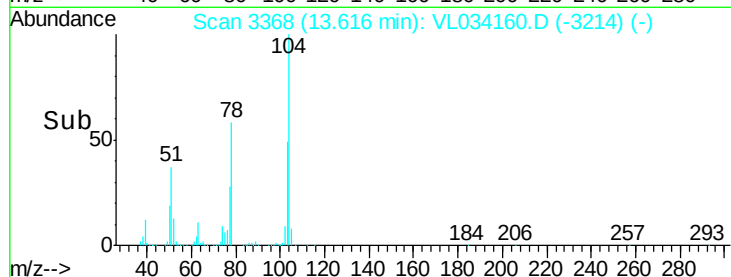
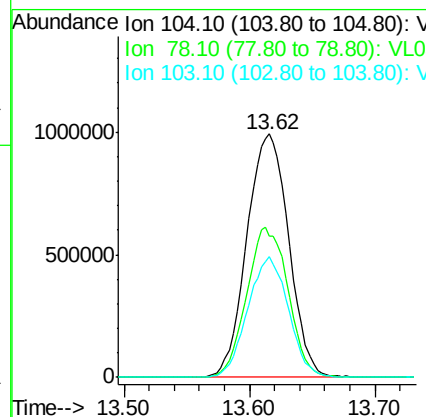
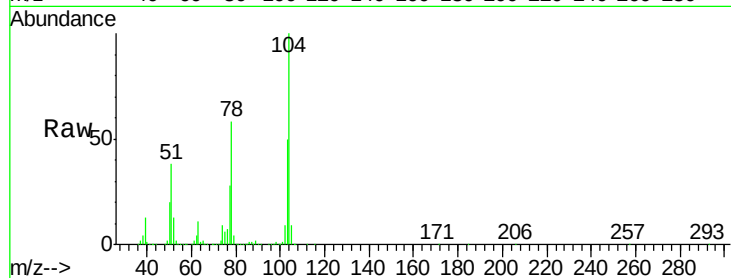
#61
Stvrene
Concen: 8.731 ppbv
RT: 13.62 min Scan# 3368
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	61.0	47.8	71.6
103	48.2	38.7	58.1

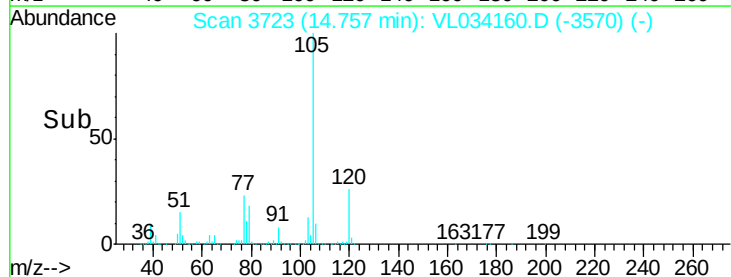
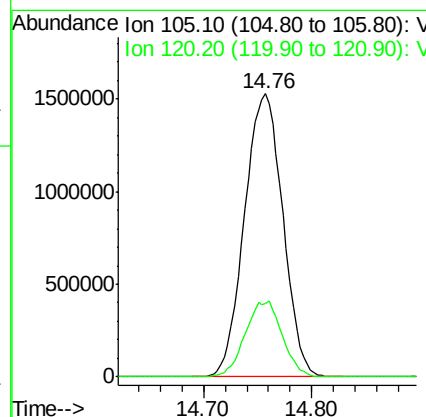
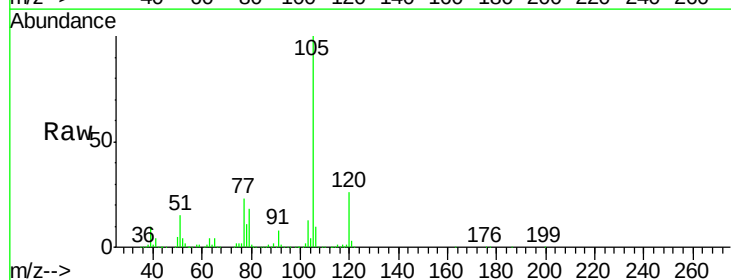
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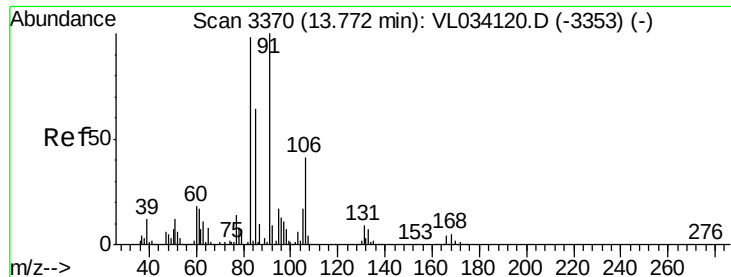
MMDadoda
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#62
Isopropylbenzene
Concen: 8.259 ppbv
RT: 14.76 min Scan# 3723
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 7.474 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2143274

Ion Ratio Lower Upper

83 100

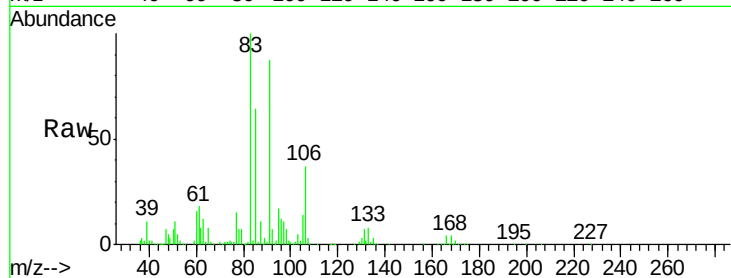
131 8.5 4.3 12.8

85 64.9 32.5 97.5

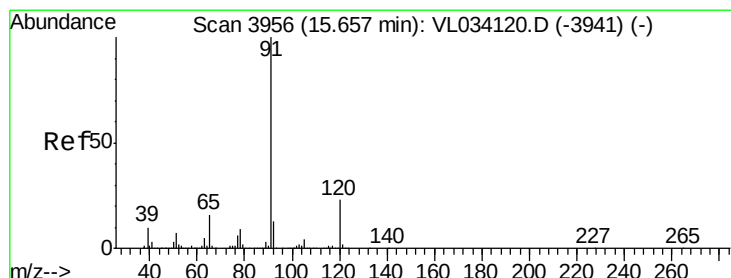
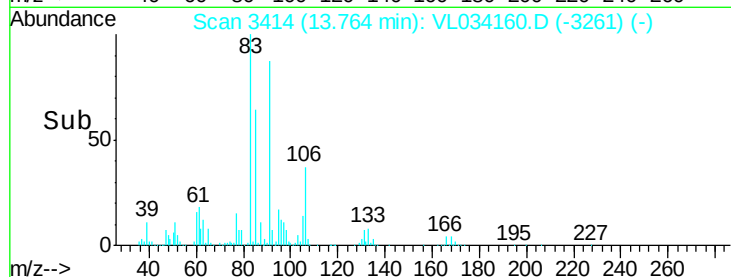
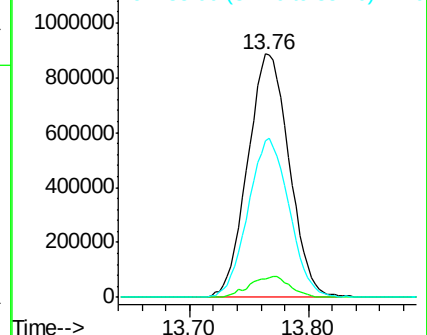
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.653 ppbv

RT: 15.65 min Scan# 4001

Delta R.T. -0.01 min

Lab File: VL034160.D

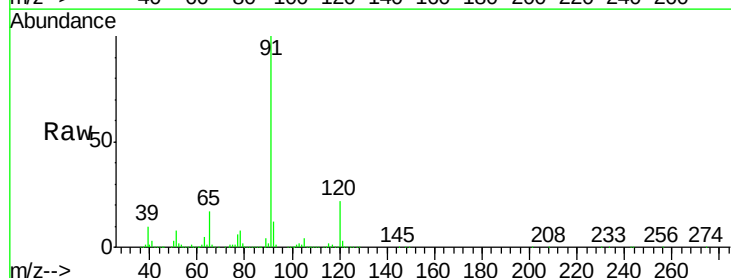
Acq: 12 Sep 2019 15:49

Tgt Ion: 120 Resp: 992513

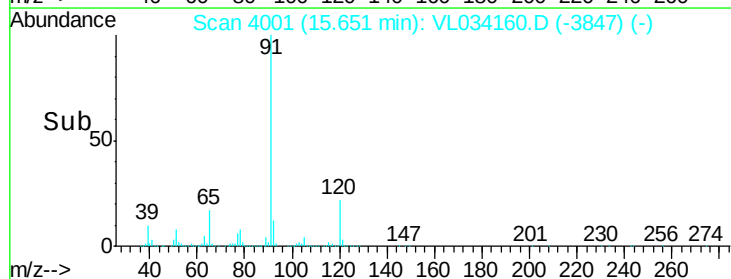
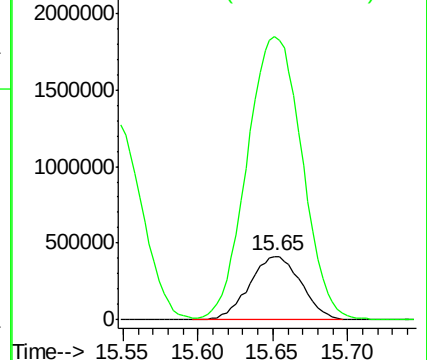
Ion Ratio Lower Upper

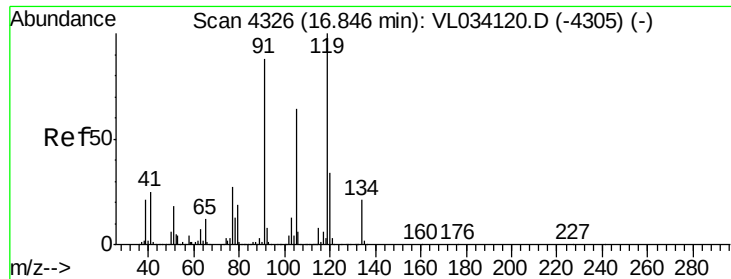
120 100

91 477.2 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.060 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

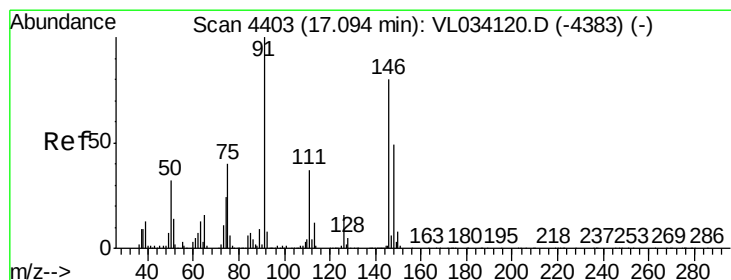
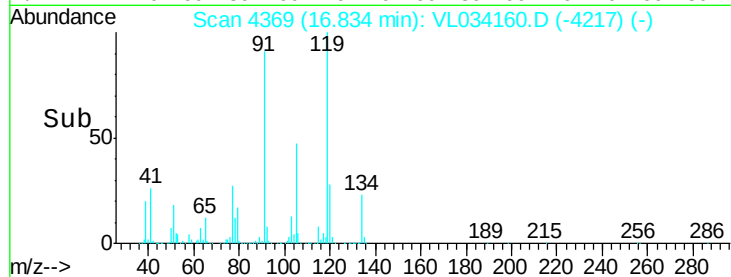
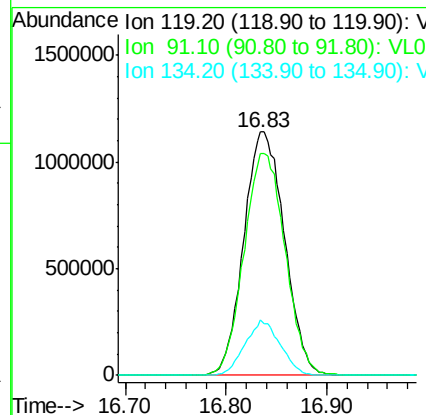
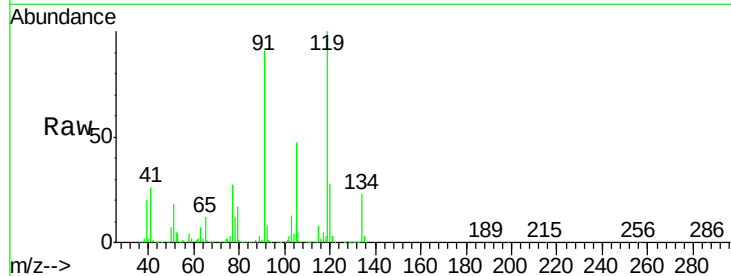
VSTDCCC010

Tot Ion:119 Resp: 3184991

Ion	Ratio	Lower	Upper
119	100		
91	92.4	72.8	109.2
134	19.7	15.8	23.8

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#66

Benzyl Chloride

Concen: 10.392 ppbv

RT: 17.09 min Scan# 4447

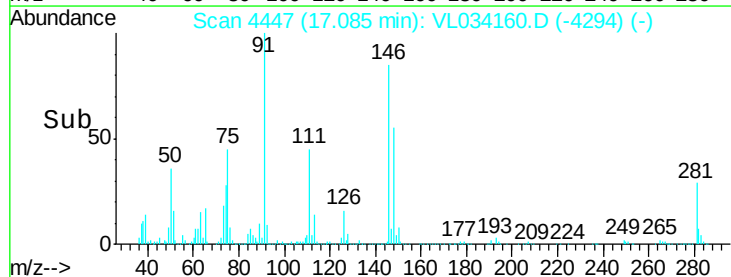
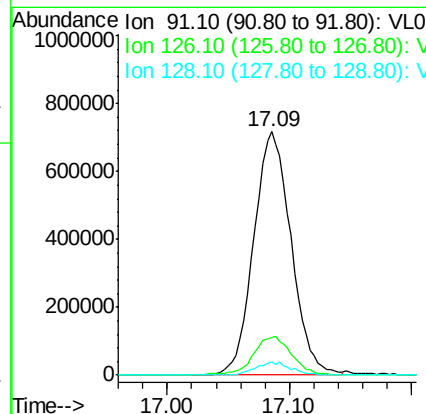
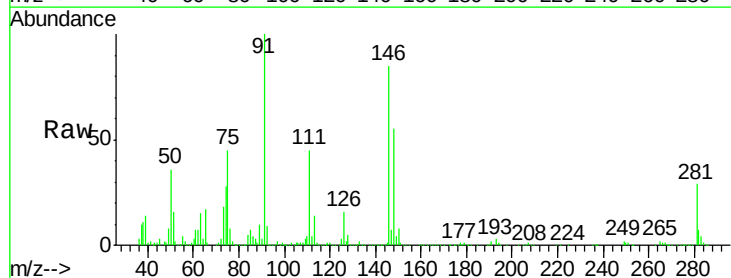
Delta R.T. -0.01 min

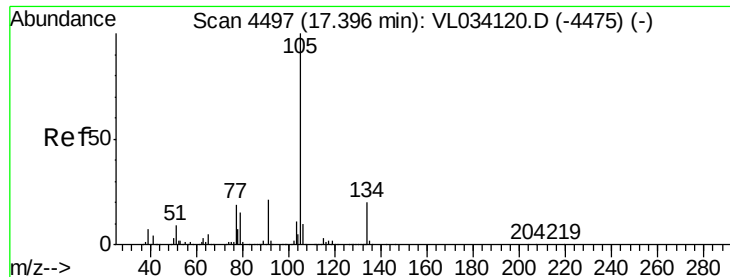
Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Tgt Ion: 91 Resp: 1514038

Ion	Ratio	Lower	Upper
91	100		
126	16.4	13.7	20.5
128	5.0	4.2	6.4





#67

sec-Butylbenzene

Concen: 8.045 ppbv

RT: 17.39 min Scan# 4541

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4571675

Ion Ratio Lower Upper

105 100

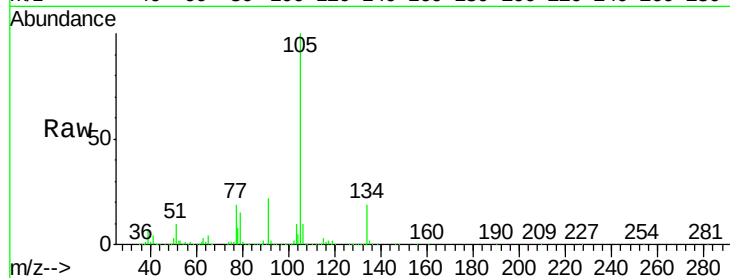
134 18.5 15.0 22.4

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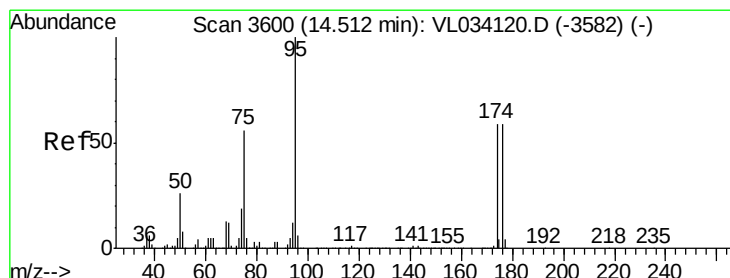
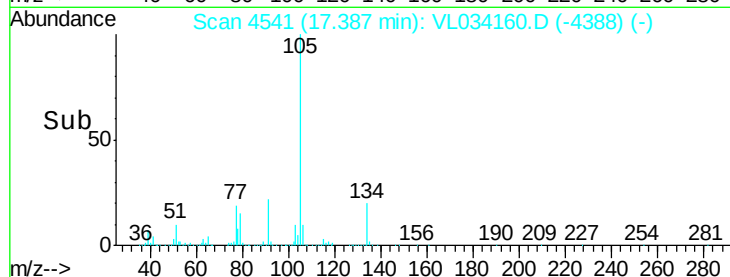
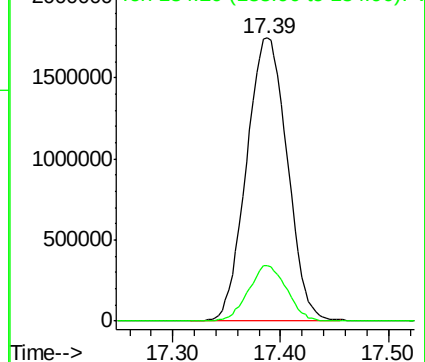
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.592 ppbv

RT: 14.51 min Scan# 3645

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

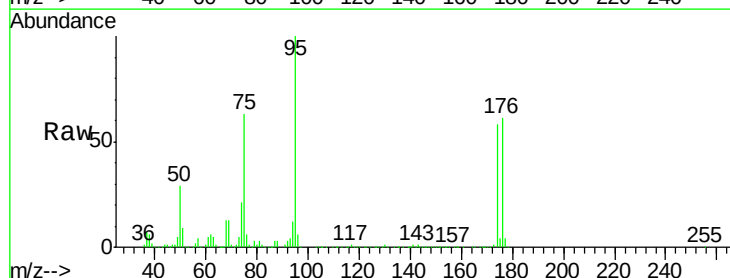
Tgt Ion: 95 Resp: 2071269

Ion Ratio Lower Upper

95 100

174 58.5 48.1 72.1

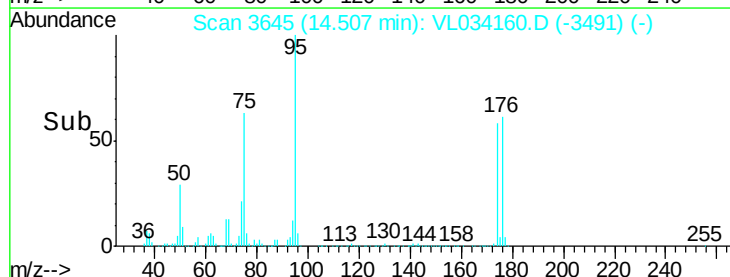
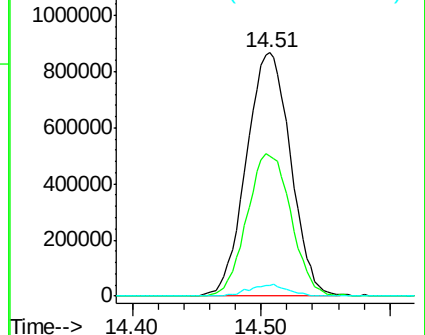
175 4.2 3.5 5.3

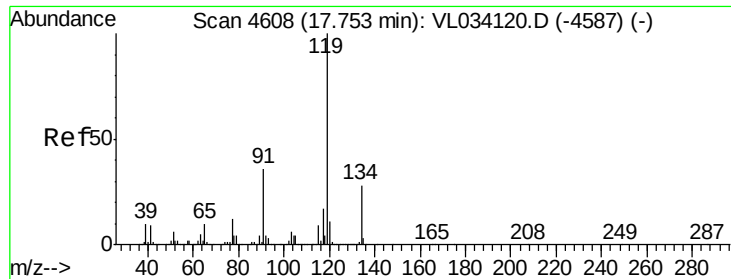


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





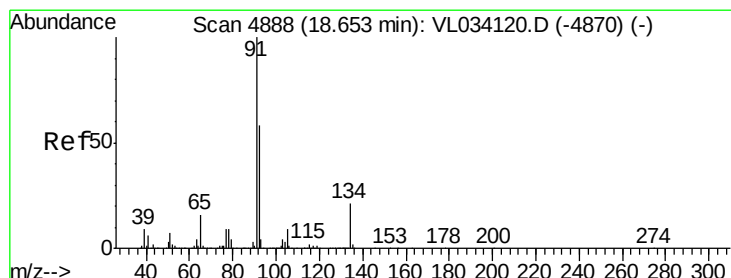
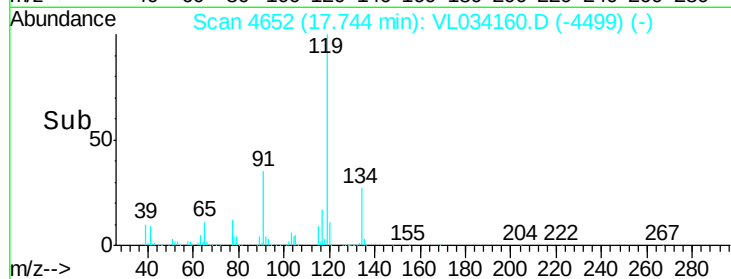
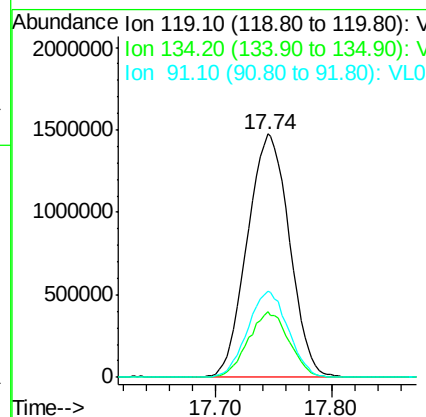
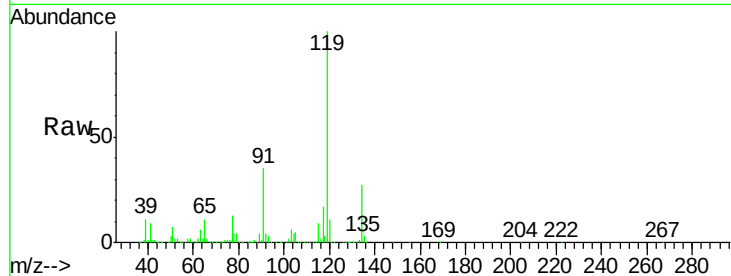
#69
 p-Isopropyltoluene
 Concen: 8.216 ppbv
 RT: 17.74 min Scan# 4652
 Delta R.T. -0.01 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.8	31.2
91	34.1	27.2	40.8

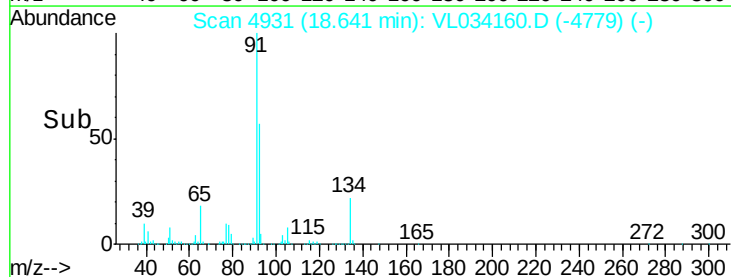
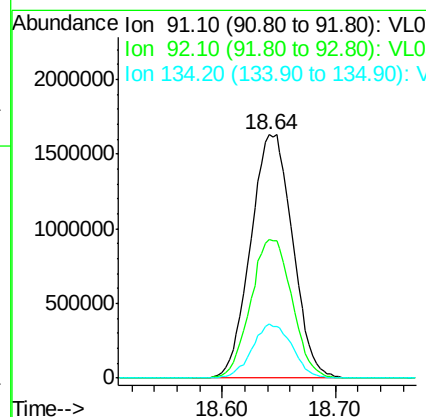
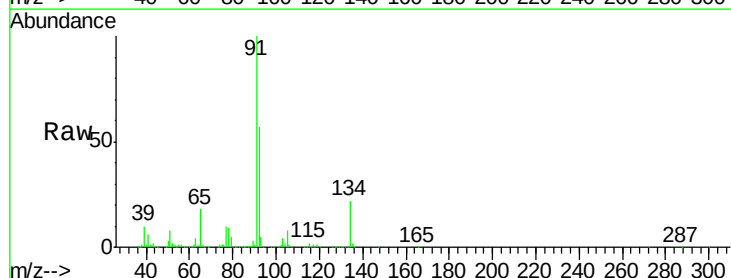
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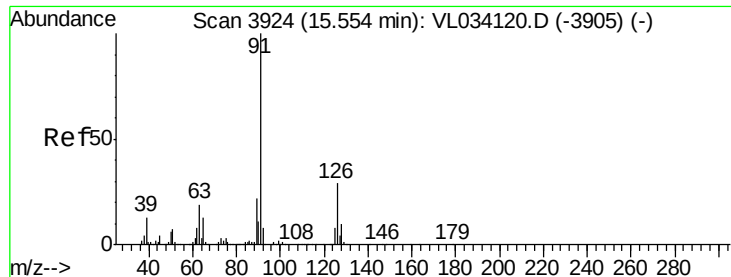
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#70
 n-Butylbenzene
 Concen: 8.117 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.01 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.2	45.3	67.9
134	21.1	17.4	26.0





#71

2-Chlorotoluene

Concen: 8.360 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3127066

Ion Ratio Lower Upper

91 100

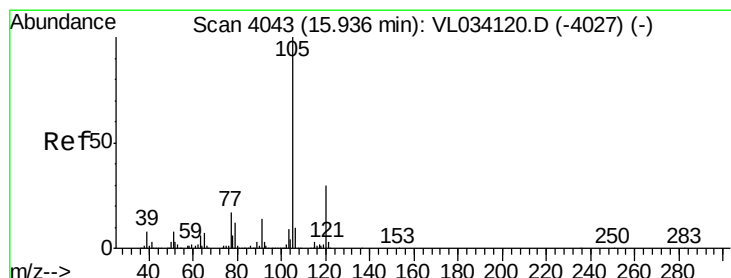
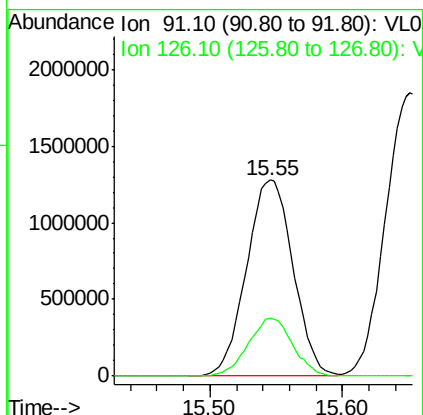
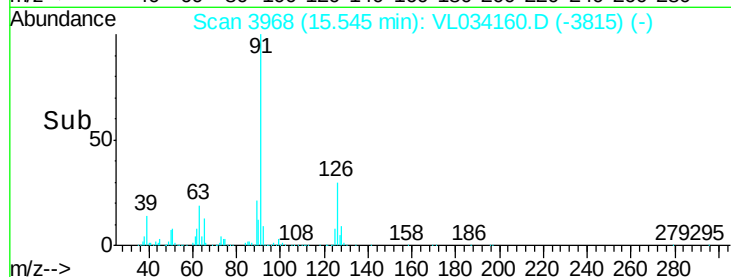
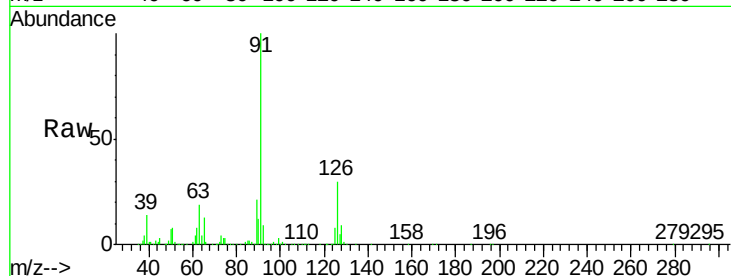
126 28.3 11.4 45.4

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#72

4-Ethyltoluene

Concen: 8.553 ppbv

RT: 15.93 min Scan# 4088

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Tgt Ion: 105 Resp: 3396105

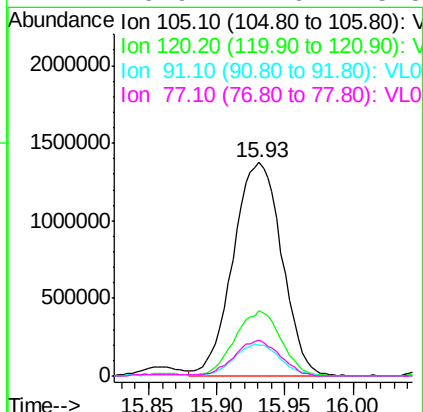
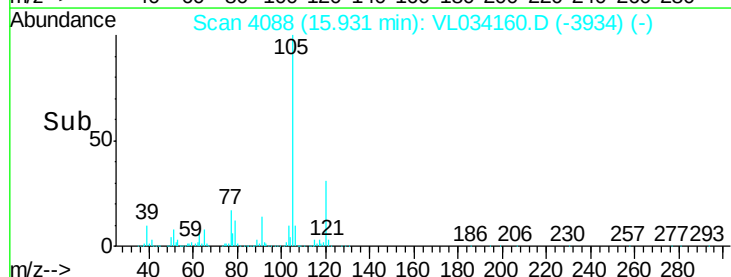
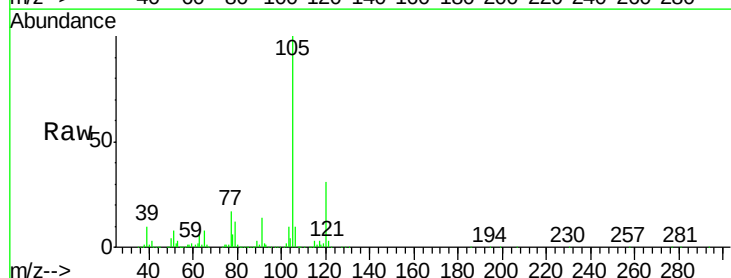
Ion Ratio Lower Upper

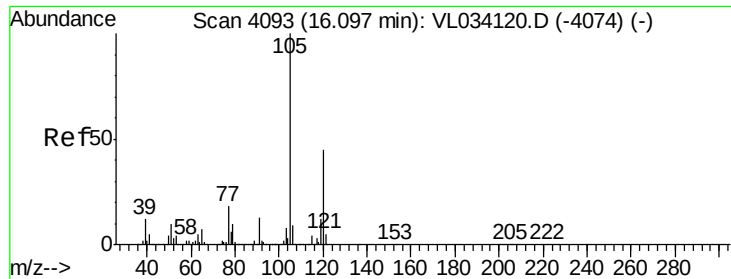
105 100

120 29.2 23.8 35.6

91 14.0 11.4 17.0

77 15.9 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 8.362 ppbv

RT: 16.09 min Scan# 4137

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3226711

Ion Ratio Lower Upper

105 100

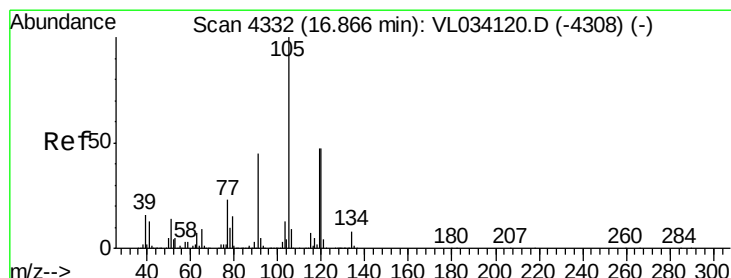
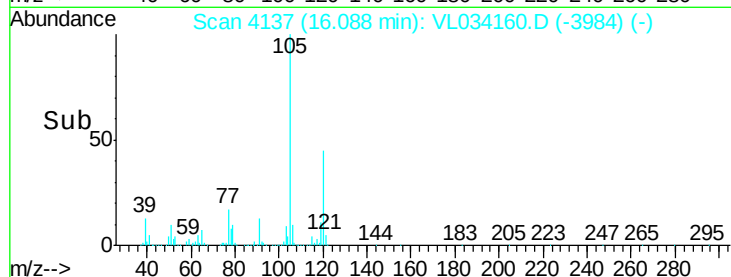
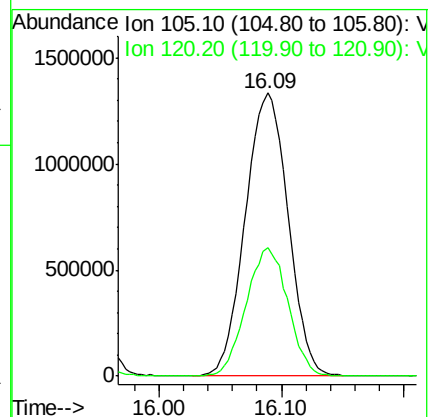
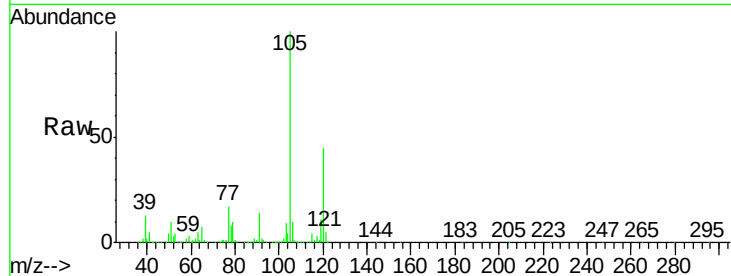
120 45.4 35.8 53.8

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#74

1,2,4-Trimethylbenzene

Concen: 7.986 ppbv

RT: 16.86 min Scan# 4376

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Tgt Ion:105 Resp: 3173215

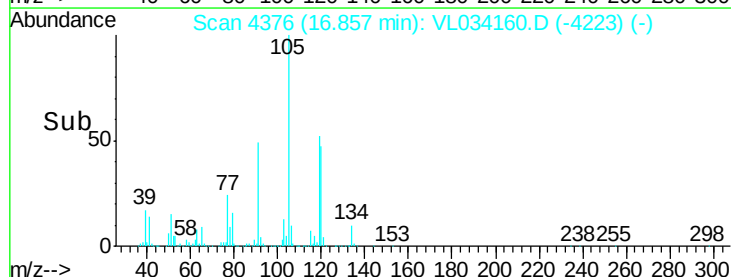
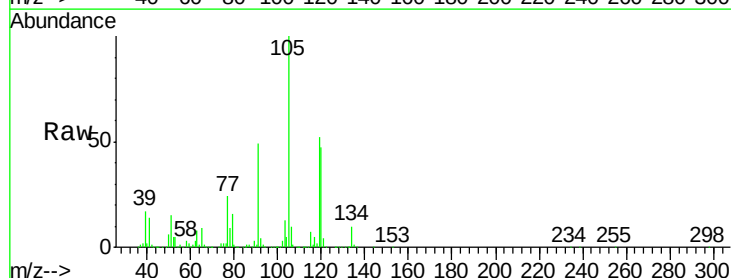
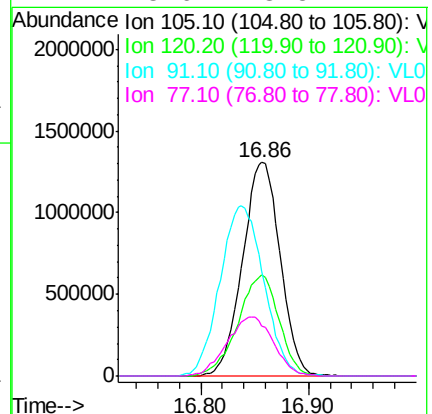
Ion Ratio Lower Upper

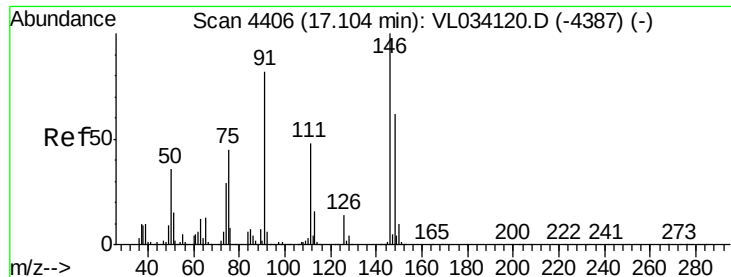
105 100

120 47.2 37.7 56.5

91 48.8 36.2 54.2

77 23.6 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 8.138 ppbv

RT: 17.09 min Scan# 4450

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1713392

Ion Ratio Lower Upper

146 100

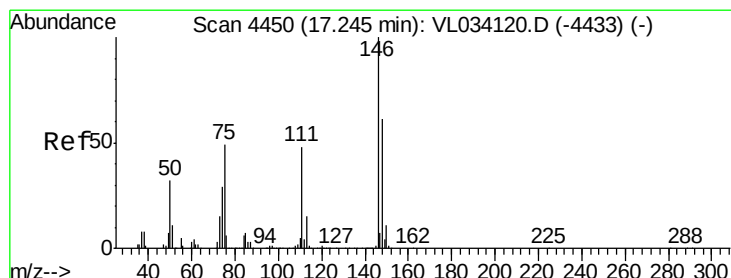
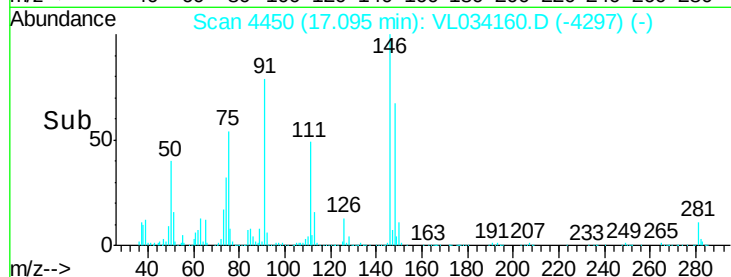
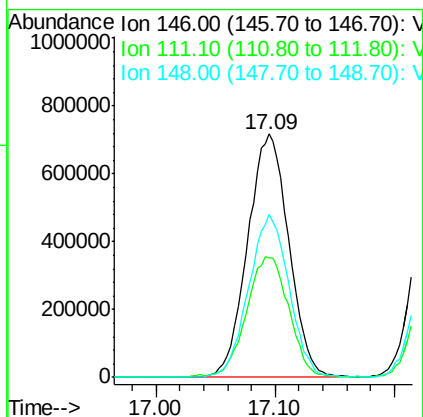
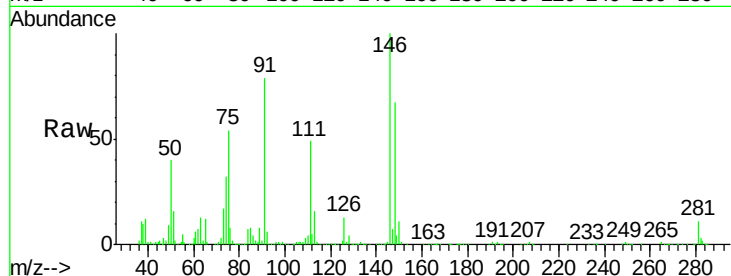
111 51.4 24.9 74.7

148 66.0 32.5 97.5

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#76

1,4-Dichlorobenzene

Concen: 8.271 ppbv m

RT: 17.23 min Scan# 4493

Delta R.T. -0.01 min

Lab File: VL034160.D

Acq: 12 Sep 2019 15:49

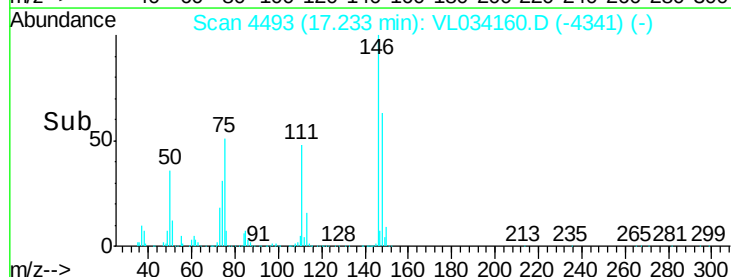
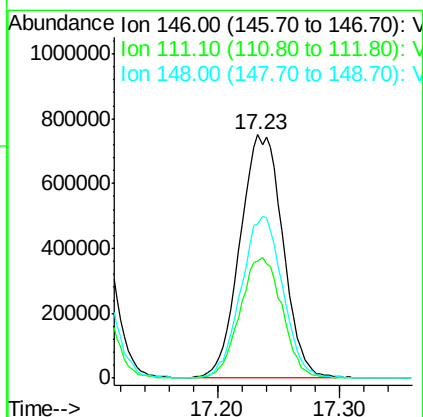
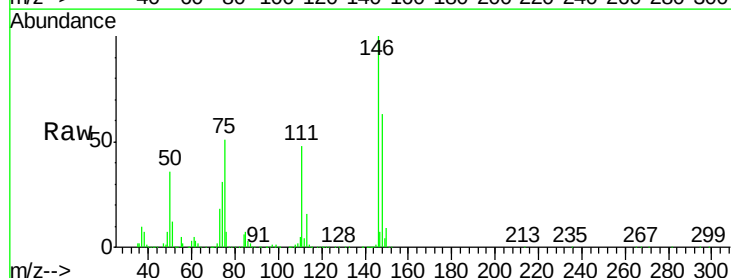
Tgt Ion:146 Resp: 1825212

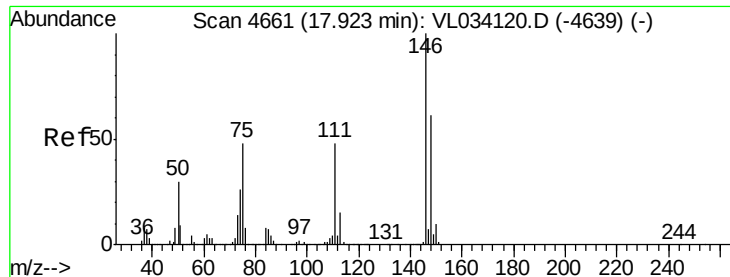
Ion Ratio Lower Upper

146 100

111 48.7 24.3 72.8

148 64.4 32.6 98.0





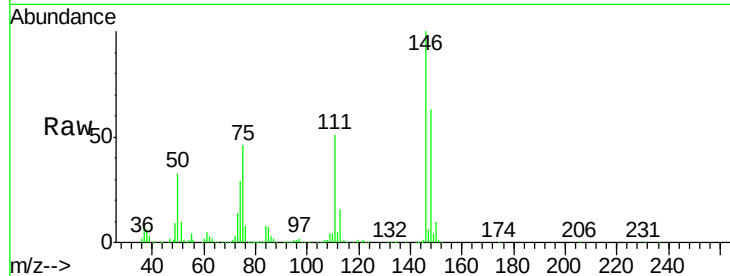
#77
 1,2-Dichlorobenzene
 Concen: 8.118 ppbv
 RT: 17.92 min Scan# 4706
 Delta R.T. -0.01 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

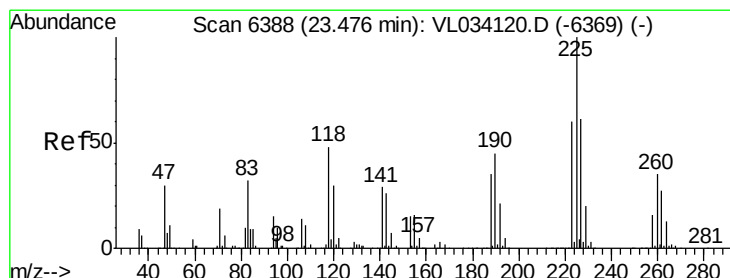
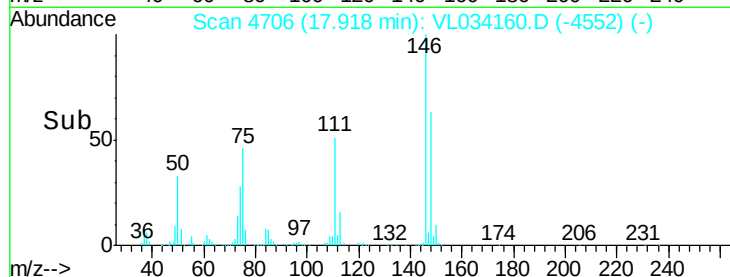
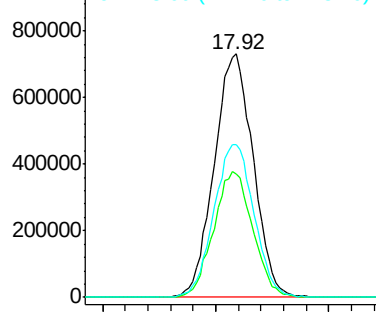
Tot Ion	Ratio	Lower	Upper
146	100		
111	52.0	25.1	75.4
148	64.7	32.0	96.2

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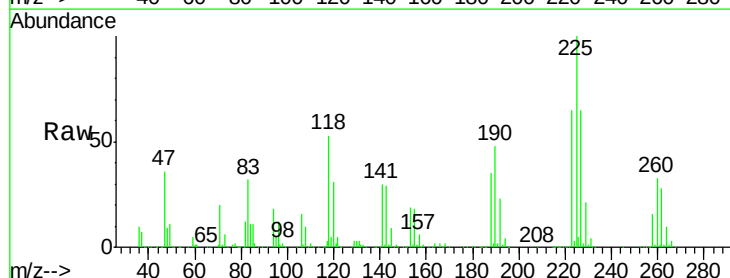


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

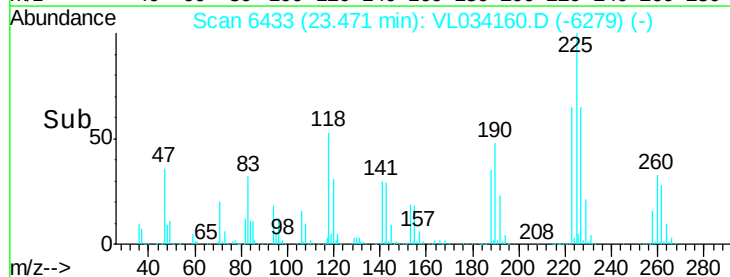
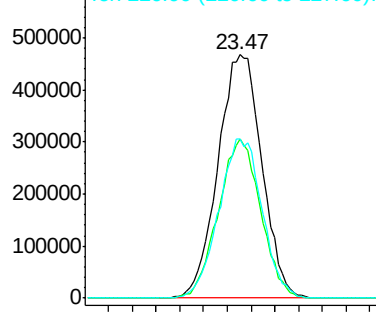


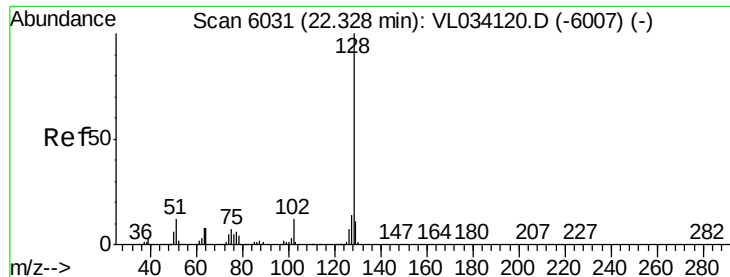
#78
 Hexachloro-1,3-Butadiene
 Concen: 8.101 ppbv
 RT: 23.47 min Scan# 6433
 Delta R.T. -0.01 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.3	75.5
227	64.6	50.9	76.3



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





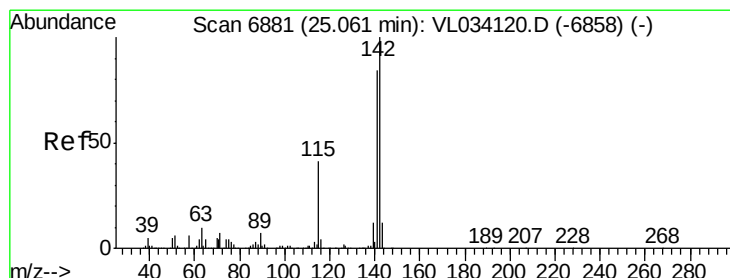
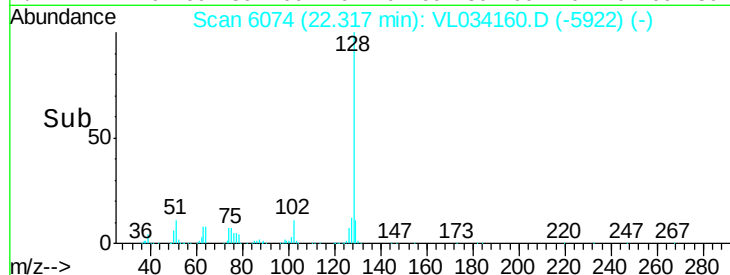
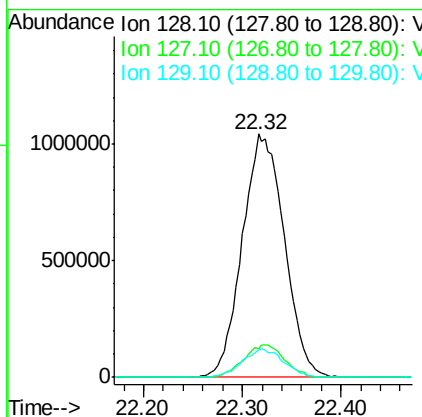
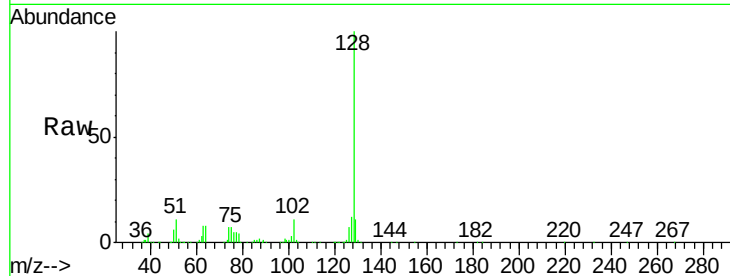
#79
Naphthalene
Concen: 8.543 ppbv
RT: 22.32 min Scan# 6074
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.9	16.3
129	11.0	8.5	12.7

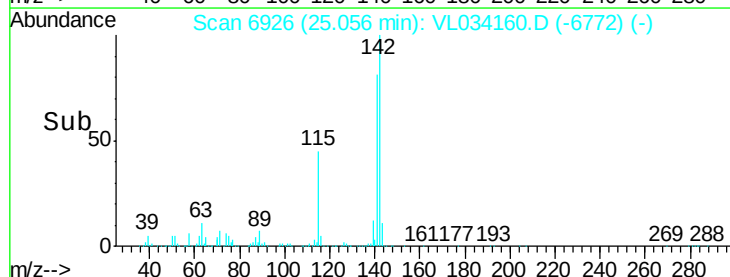
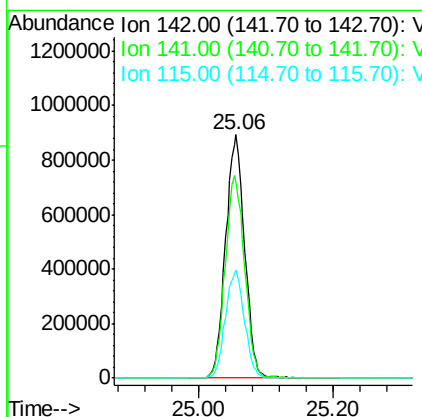
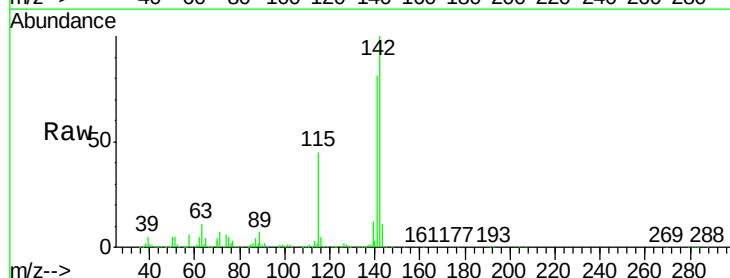
Manual Integrations
APPROVED

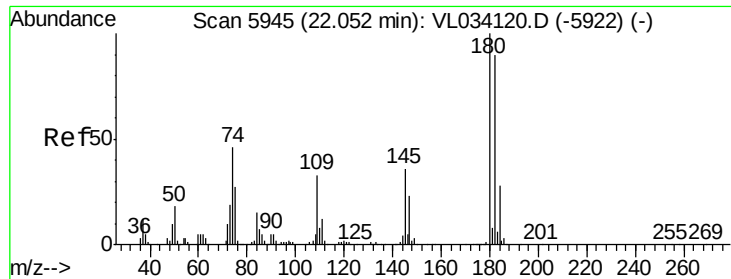
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#80
Naphthalene, 2-methyl-
Concen: 14.185 ppbv
RT: 25.06 min Scan# 6926
Delta R.T. -0.01 min
Lab File: VL034160.D
Acq: 12 Sep 2019 15:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.6	101.4
115	44.1	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.225 ppbv m
 RT: 22.05 min Scan# 5992
 Delta R.T. 0.00 min
 Lab File: VL034160.D
 Acq: 12 Sep 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.0	115.4
184	0.0	25.5	38.3#

Manual Integrations
 APPROVED

MMDadoda
 9/14/2019 12:09:45 AM

