

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\
 Data File : VL034278.D
 Acq On : 14 Oct 2019 9:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:11 AM

Quant Time: Oct 15 06:45:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	918864	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1730888	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1887944m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1514859	9.23	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1606167	11.834	ppbv	99
3) Chlorodifluoromethane	2.97	51	1052277	9.767	ppbv	99
4) Chloromethane	3.12	50	659918	10.423	ppbv	97
5) Vinyl Chloride	3.24	62	588574	10.172	ppbv	98
6) Bromomethane	3.46	94	296636	10.988	ppbv	96
7) Chloroethane	3.55	64	214382	10.601	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	1259949	10.518	ppbv	99
9) Propene	2.99	41	531629	10.002	ppbv	99
10) Heptane	8.17	43	1390289	10.036	ppbv	98
11) Trichlorofluoromethane	3.94	101	1319554	10.681	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	906029	11.206	ppbv	98
13) Ethanol	3.60	45	107092	8.320	ppbv	97
14) Bromoethene	3.73	108	386663	11.697	ppbv	98
15) Acetone	3.84	43	1084360	8.805	ppbv	99
16) 1,3-Butadiene	3.31	39	568519	10.578	ppbv	98
17) tert-Butyl alcohol	4.29	59	871485	11.168	ppbv	100
18) 1,1-Dichloroethene	4.29	96	412315	11.692	ppbv	89
19) Isopropyl Alcohol	3.97	45	740233	9.775	ppbv	100
20) Methylene Chloride	4.35	84	368650	10.382	ppbv	93
21) Allyl Chloride	4.41	41	785464	11.292	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	420035	11.905	ppbv	93
23) Vinyl Acetate	5.09	43	1885824	10.391	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1244954	10.188	ppbv	99
25) Ethyl Acetate	5.70	43	2290773	9.837	ppbv	99
26) Hexane	5.71	57	985067	10.169	ppbv	98
27) Carbon Disulfide	4.56	76	1078601	12.073	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1610660	11.195	ppbv	98
29) Chloroform	5.78	83	1452191	10.490	ppbv	99
30) Cyclohexane	7.17	84	775012	11.081	ppbv	94
31) cis-1,2-Dichloroethene	5.57	61	1044073	10.572	ppbv	97
32) 1,1,1-Trichloroethane	6.55	97	1377405	10.317	ppbv	97
34) 2-Butanone	5.26	43	1569347	8.880	ppbv	97
35) Carbon Tetrachloride	7.06	117	1329417	9.245	ppbv	99
36) Benzene	6.93	78	1864243	9.752	ppbv	97
37) 1,2-Dichloroethane	6.34	62	1222769	8.993	ppbv	99
38) Trichloroethene	7.88	130	625022	9.151	ppbv	98
39) 1,2-Dichloropropane	7.66	63	809727	9.427	ppbv	93
40) 1,4-Dioxane	7.87	88	262297	9.437	ppbv #	90
41) Tetrahydrofuran	6.08	42	941661	9.460	ppbv	97
42) Bromodichloromethane	7.84	83	1588793	9.736	ppbv	98
43) Methyl Methacrylate	8.06	69	797994	10.105	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3401016	9.241	ppbv	97
45) t-1,3-Dichloropropene	9.34	75	1036007	11.095	ppbv	100
46) cis-1,3-Dichloropropene	8.75	75	1166397	10.385	ppbv	92
47) 1,1,2-Trichloroethane	9.54	97	732162	9.493	ppbv	95
48) Dibromochloromethane	10.37	129	1203720	9.847	ppbv	99
49) Bromoform	13.11	173	1013126	10.241	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2312143	8.989	ppbv	99
51) 2-Hexanone	10.19	43	1924529	8.916	ppbv #	97
52) Tetrachloroethene	11.29	164	579795	9.180	ppbv	96
53) Toluene	9.86	91	2068131	9.899	ppbv	99
54) 1,2-Dibromoethane	10.67	107	1099436	9.585	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	778444	9.246	ppbv	99
57) Chlorobenzene	12.21	112	1449227	8.816	ppbv	97
58) Ethyl Benzene	12.78	91	2819989	9.257	ppbv	99
59) m/p-Xylene	13.06	91	4589685m	18.190	ppbv	
60) o-Xylene	13.77	91	2254567	8.936	ppbv	99
61) Styrene	13.60	104	1689443	9.348	ppbv	98
62) Isopropylbenzene	14.74	105	2921833	8.946	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1624080	7.850	ppbv	99
64) n-propylbenzene	15.64	120	734311	8.887	ppbv	88
65) tert-Butylbenzene	16.82	119	2493551	8.738	ppbv	98
66) Benzyl Chloride	17.07	91	1233986	12.222	ppbv	100
67) sec-Butylbenzene	17.37	105	3595372	8.811	ppbv	99
69) p-Isopropyltoluene	17.73	119	2908292	8.801	ppbv	99
70) n-Butylbenzene	18.63	91	3307493	8.596	ppbv	99
71) 2-Chlorotoluene	15.53	91	2357867	8.836	ppbv	99
72) 4-Ethyltoluene	15.92	105	2584275	9.066	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2477233	8.996	ppbv	99
74) 1,2,4-Trimethylbenzene	16.84	105	2488581	8.511	ppbv	98
75) 1,3-Dichlorobenzene	17.08	146	1369973	8.733	ppbv	97
76) 1,4-Dichlorobenzene	17.22	146	1370163	8.528	ppbv	100
77) 1,2-Dichlorobenzene	17.90	146	1333068	8.396	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1030440	9.798	ppbv	100
79) Naphthalene	22.30	128	2217985	8.616	ppbv	96
80) Naphthalene, 2-methyl-	25.04	142	960832	8.026	ppbv	98
81) 1,2,4-Trichlorobenzene	22.04	180	1241050	8.703	ppbv	98

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

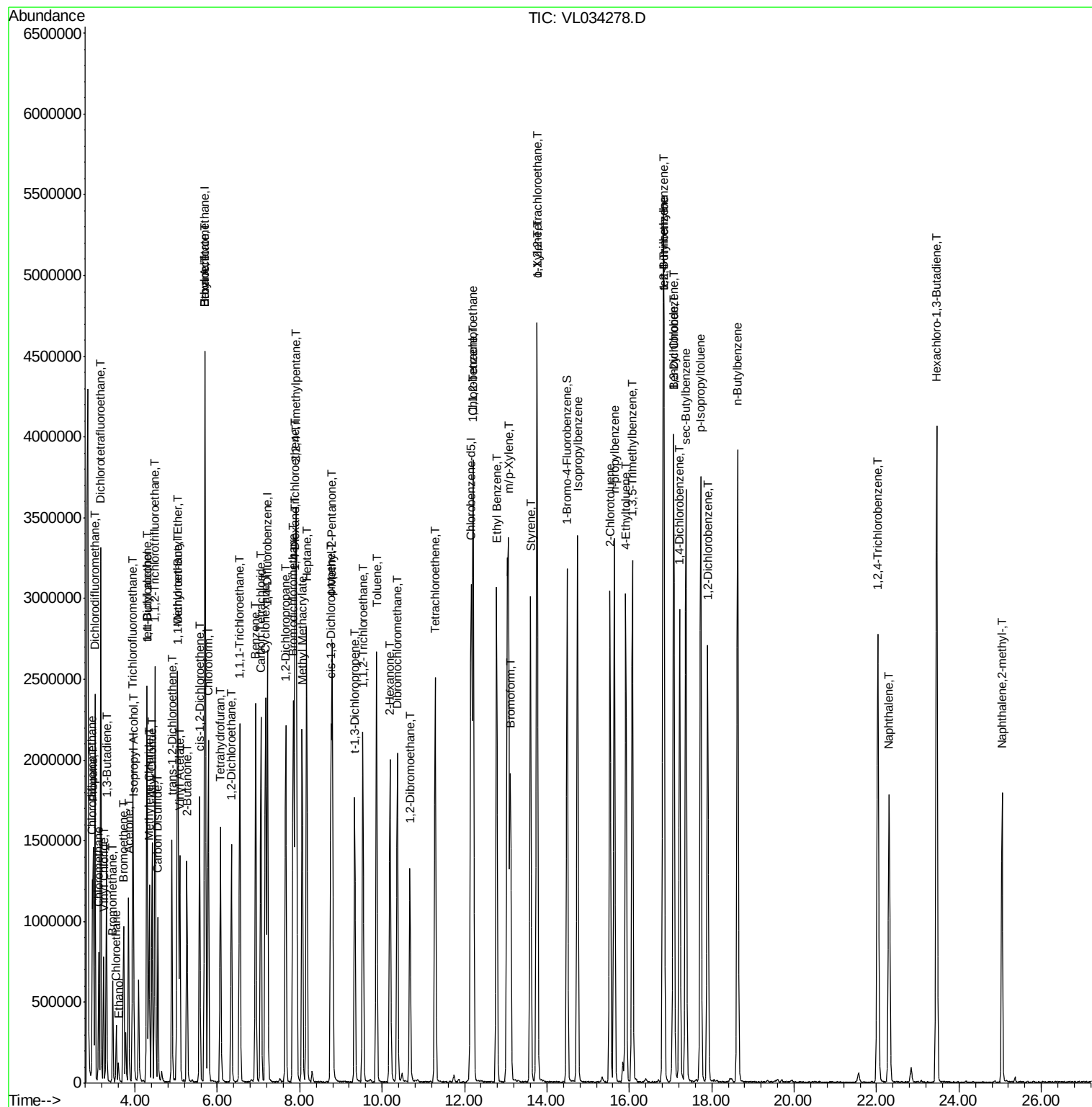
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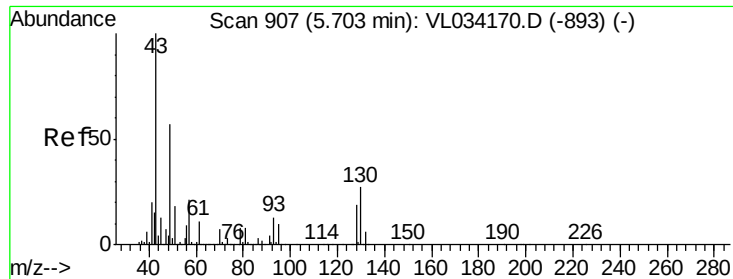
Instrument :
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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

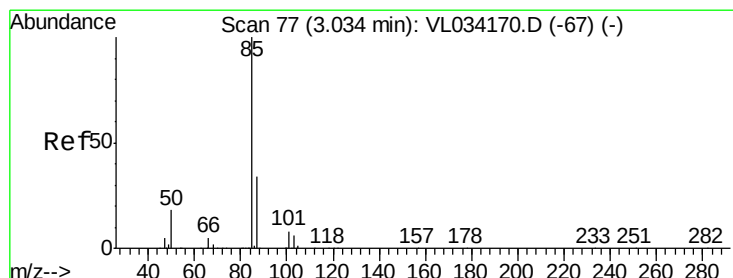
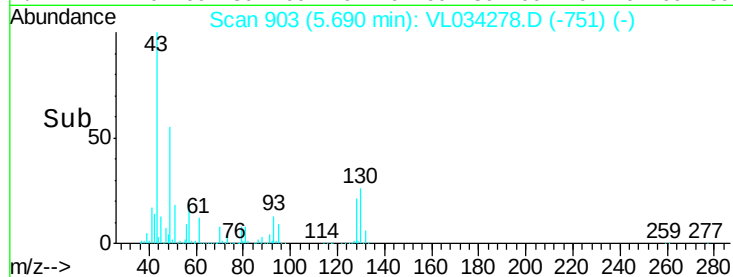
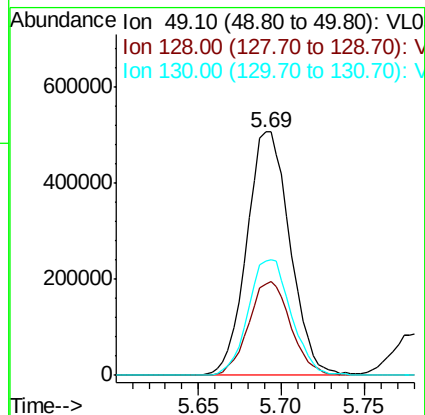
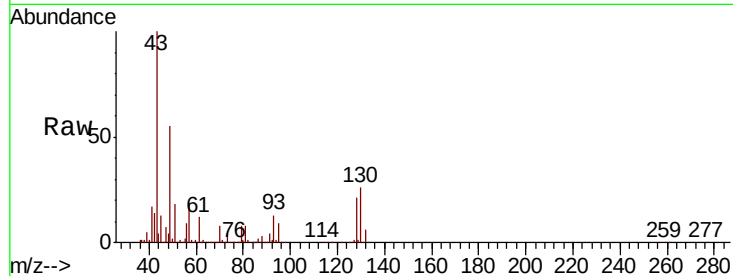
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	37.6	17.6	52.9
130	47.3	22.3	66.9

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 11.834 ppbv

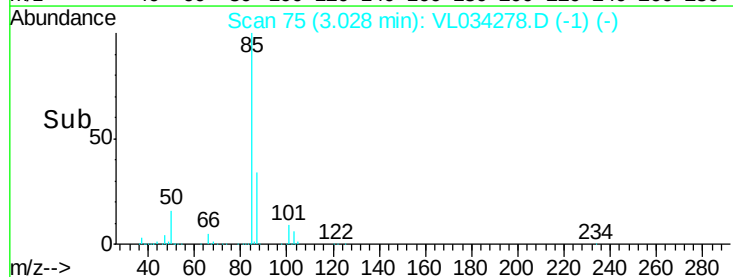
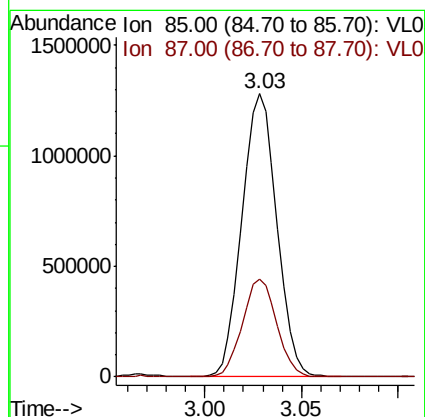
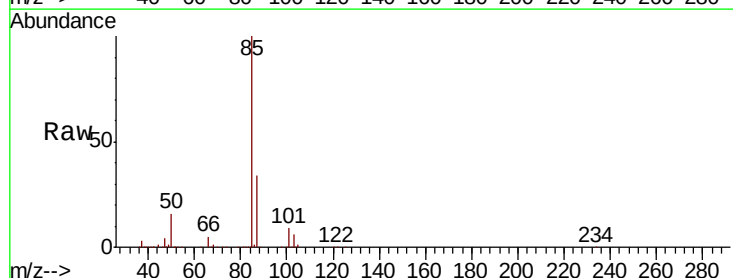
RT: 3.03 min Scan# 75

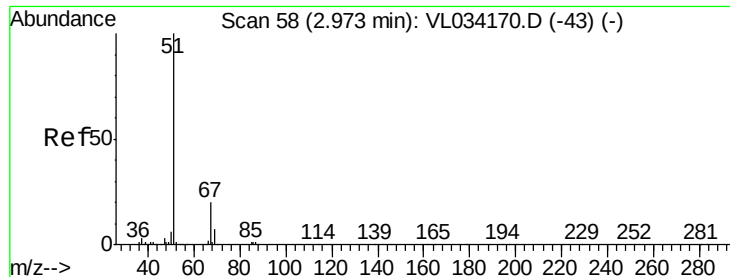
Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.5	27.2	40.8





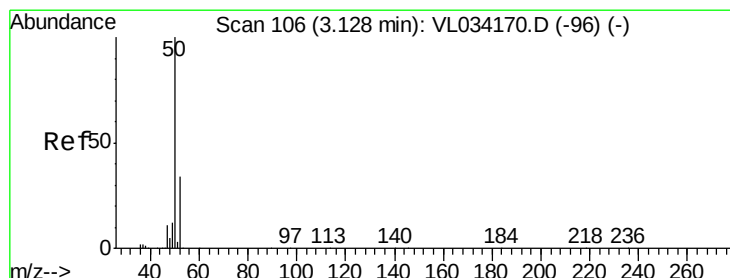
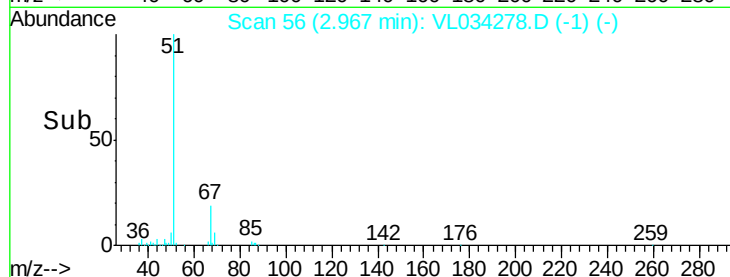
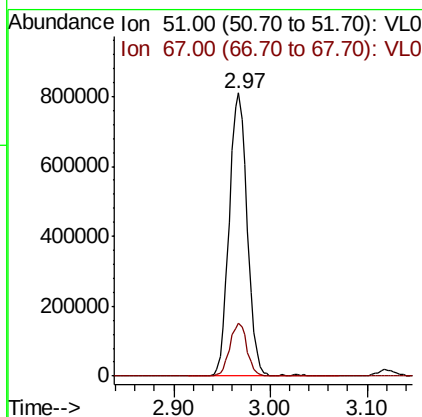
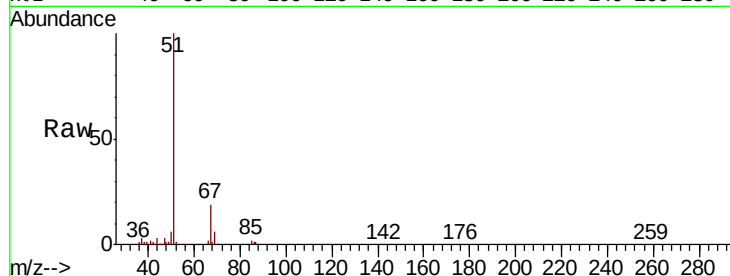
#3
Chlorodifluoromethane
Concen: 9.767 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.0	14.8	22.2

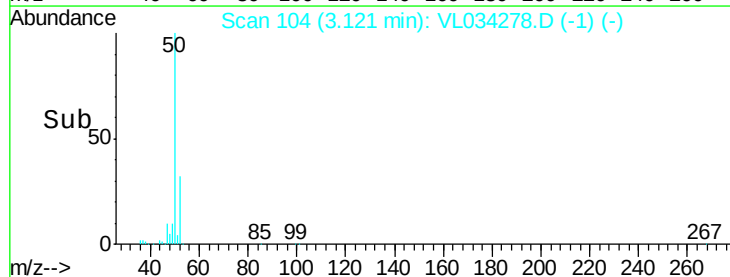
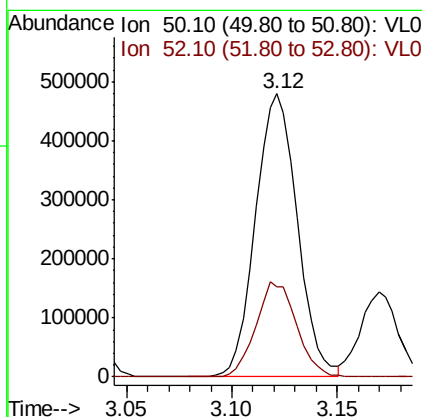
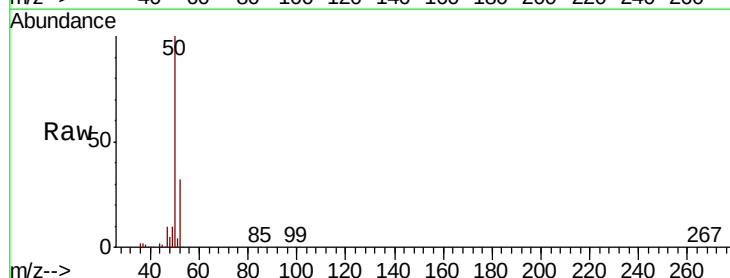
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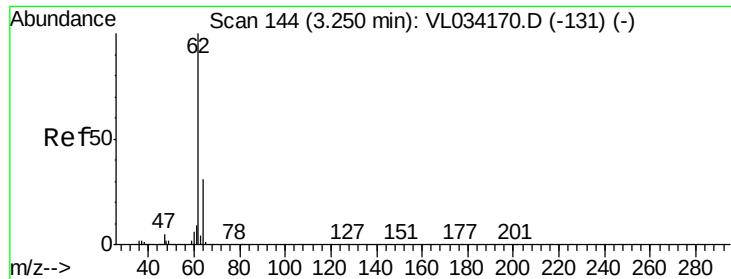
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#4
Chloromethane
Concen: 10.423 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.1	27.1	40.7





#5

Vinyl Chloride

Concen: 10.172 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 588574

Ion Ratio Lower Upper

62 100

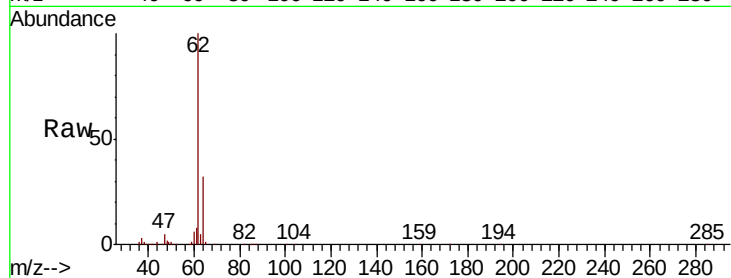
64 32.3 25.2 37.8

Manual Integrations

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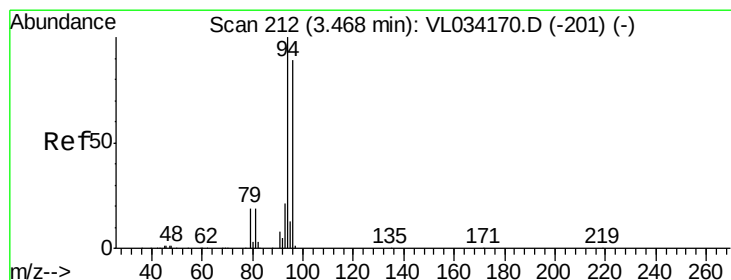
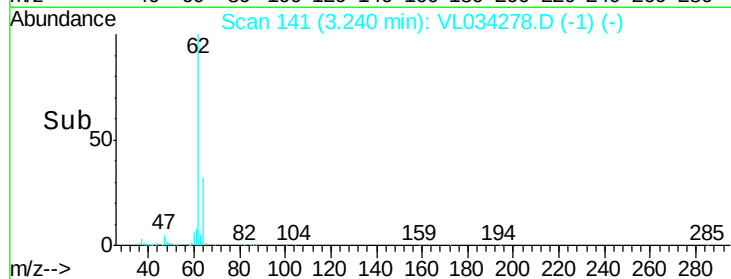
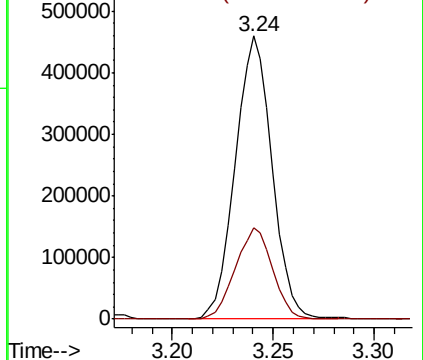
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.988 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.01 min

Lab File: VL034278.D

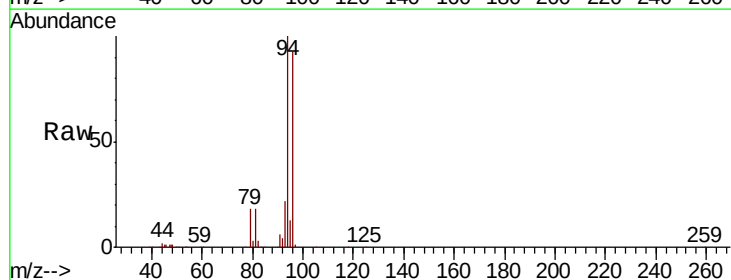
Acq: 14 Oct 2019 9:20

Tgt Ion: 94 Resp: 296636

Ion Ratio Lower Upper

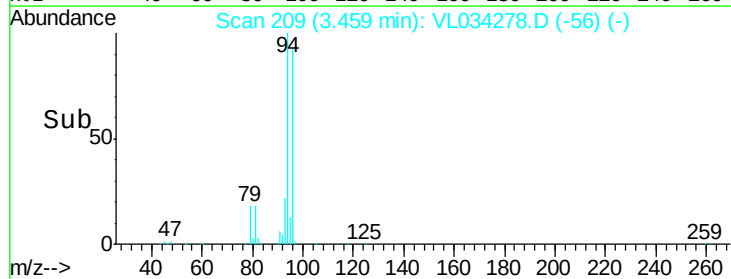
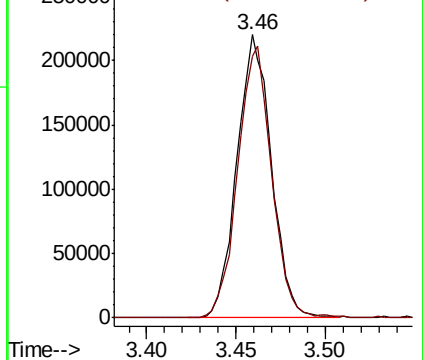
94 100

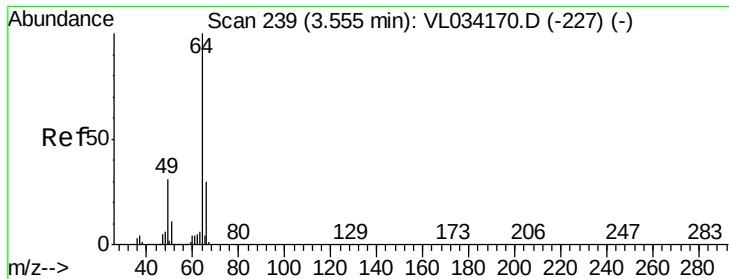
96 92.6 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.601 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 214382

Ion Ratio Lower Upper

64 100

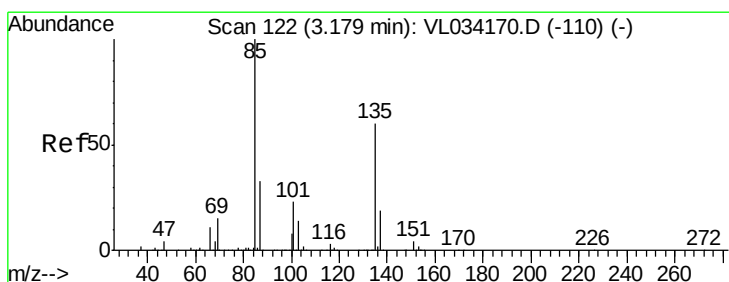
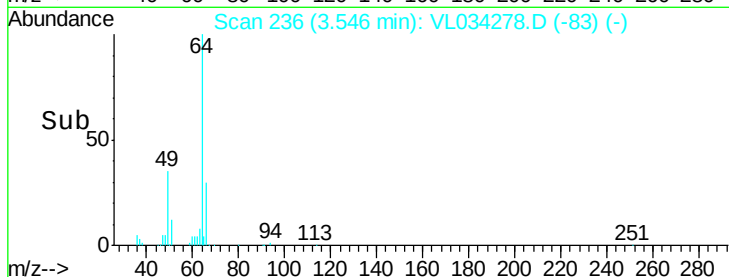
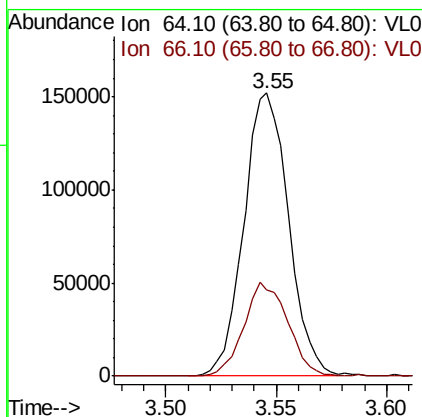
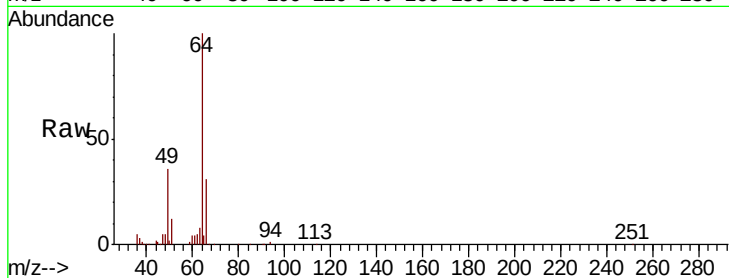
66 30.5 24.2 36.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.518 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL034278.D

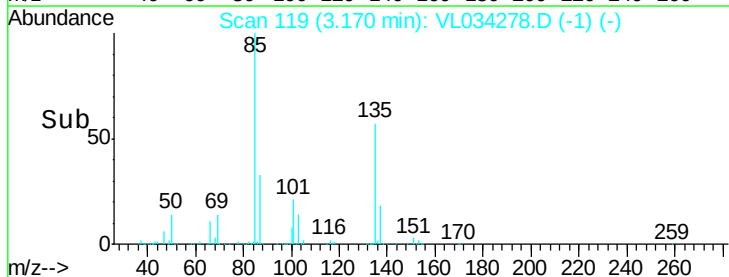
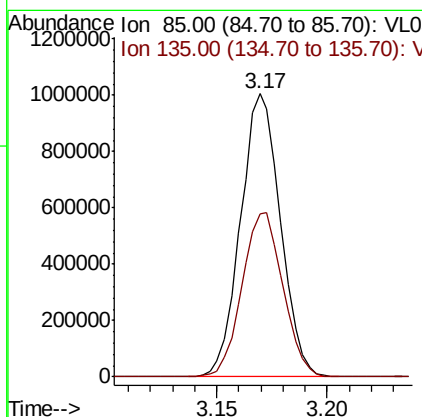
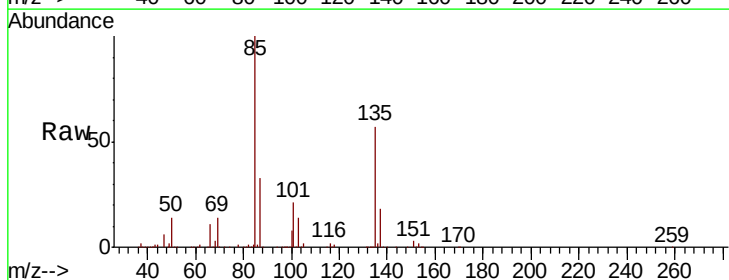
Acq: 14 Oct 2019 9:20

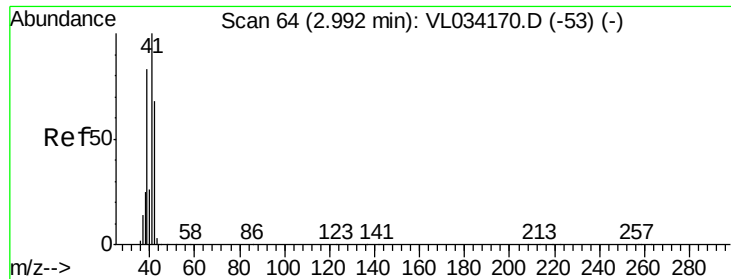
Tgt Ion: 85 Resp: 1259949

Ion Ratio Lower Upper

85 100

135 59.7 47.3 70.9





#9

Propene

Concen: 10.002 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 531629

Ion Ratio Lower Upper

41 100

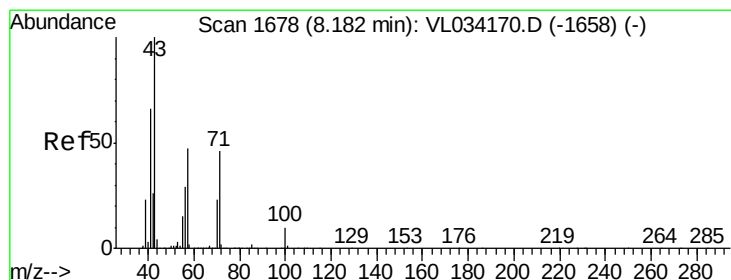
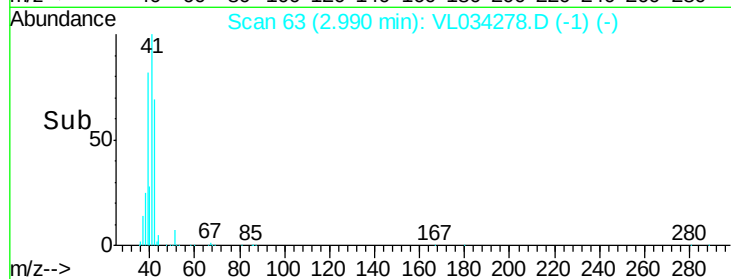
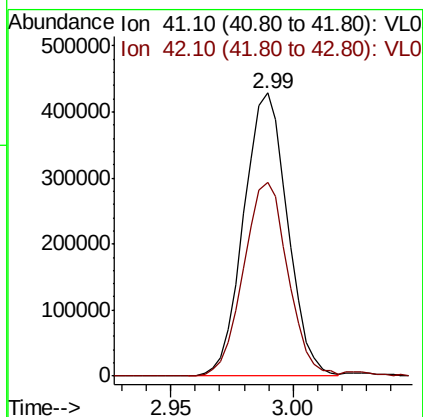
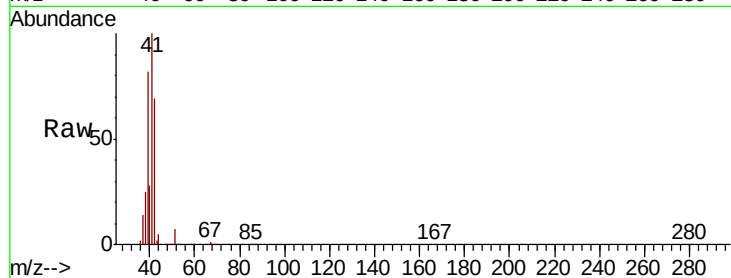
42 70.7 55.8 83.6

Manual Integrations

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#10

Heptane

Concen: 10.036 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. -0.02 min

Lab File: VL034278.D

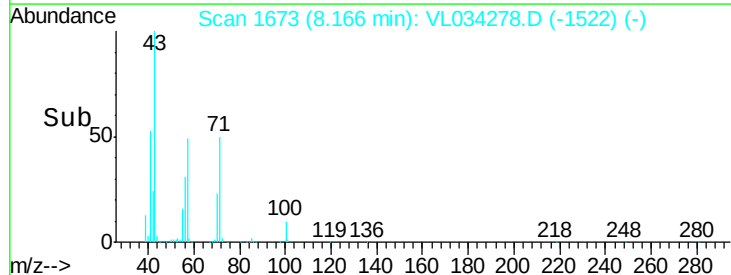
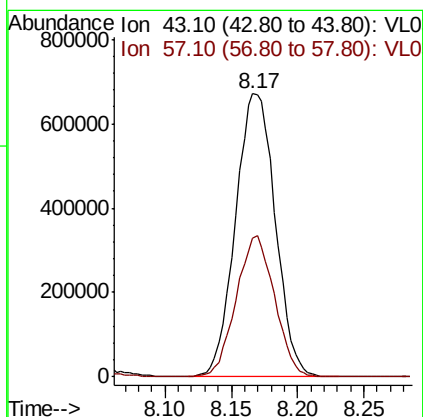
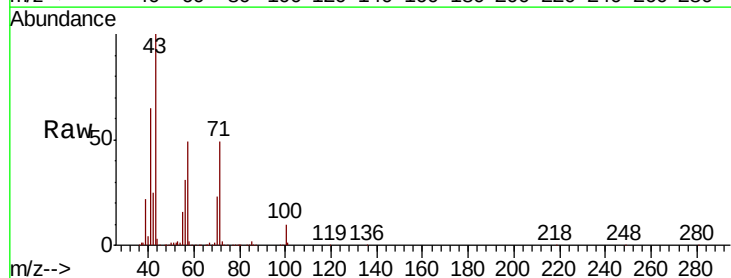
Acq: 14 Oct 2019 9:20

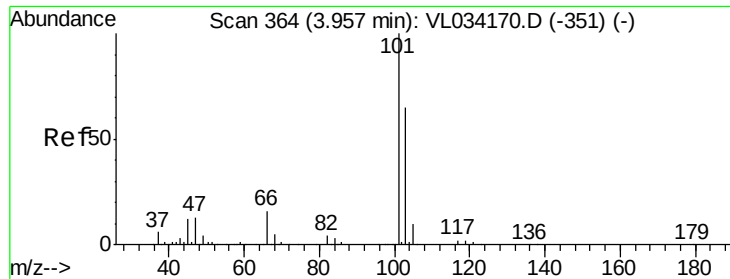
Tgt Ion: 43 Resp: 1390289

Ion Ratio Lower Upper

43 100

57 48.5 37.5 56.3





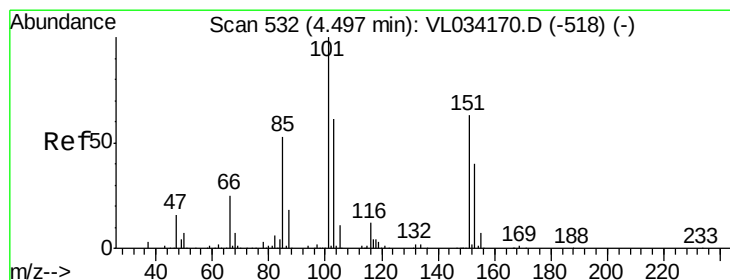
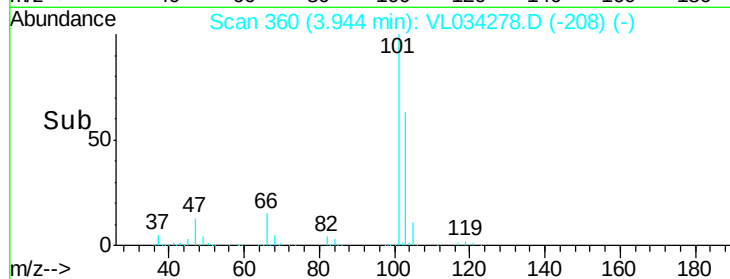
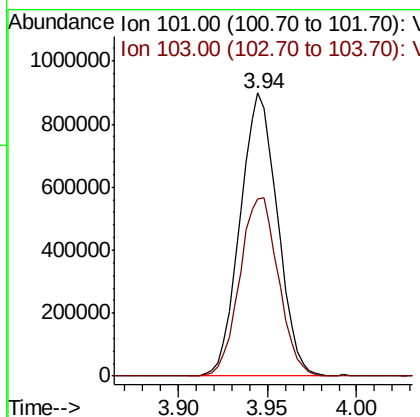
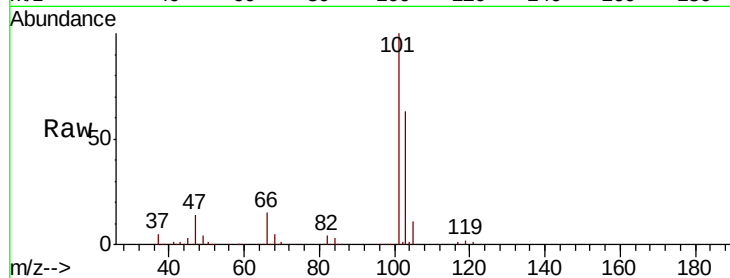
#11
 Trichlorofluoromethane
 Concen: 10.681 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1319554
 Ion Ratio Lower Upper
 101 100
 103 62.5 52.1 78.1

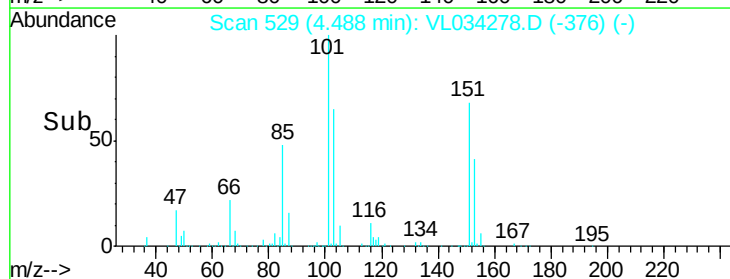
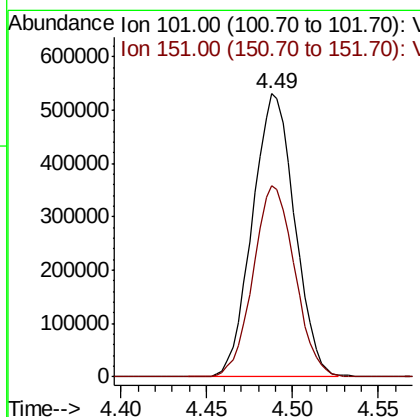
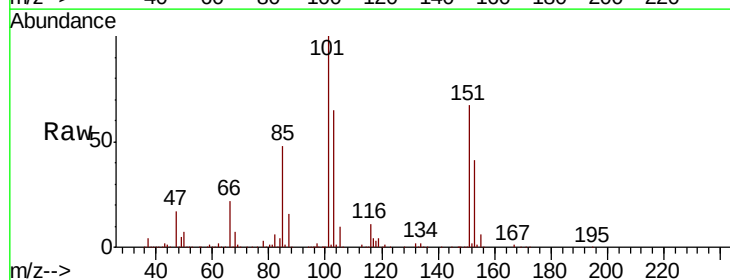
Manual Integrations
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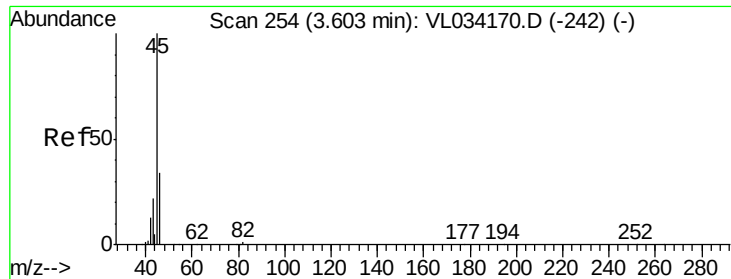
MMDadoda
 10/16/2019 12:59:11 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.206 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion:101 Resp: 906029
 Ion Ratio Lower Upper
 101 100
 151 66.3 51.8 77.8





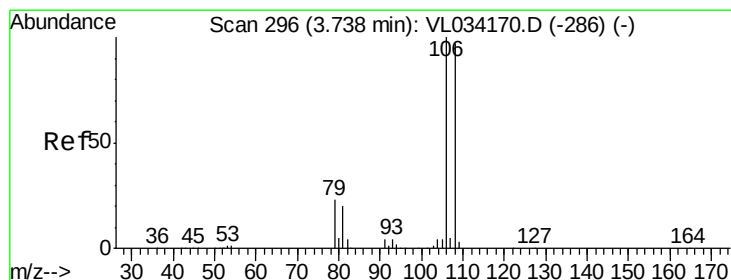
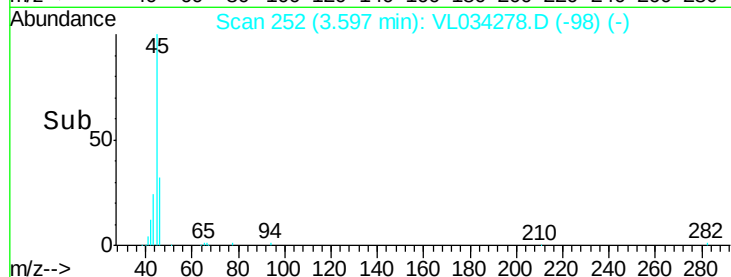
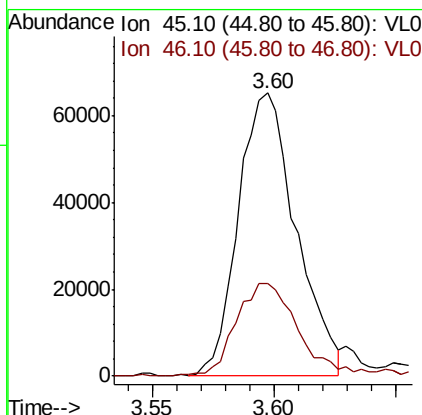
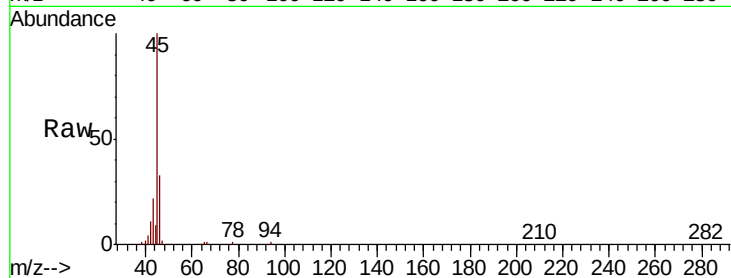
#13
Ethanol
Concen: 8.320 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	46	Ratio	Lower	Upper
107092	100	37.0		15.5	61.9

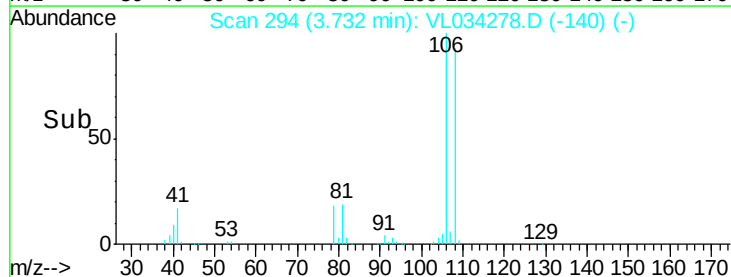
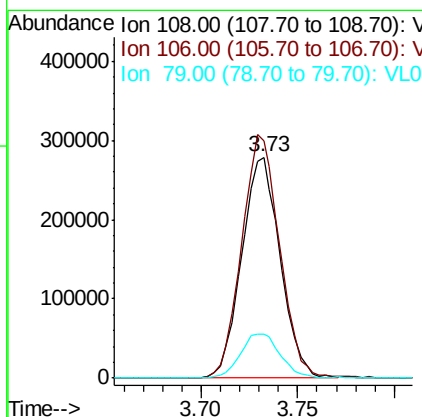
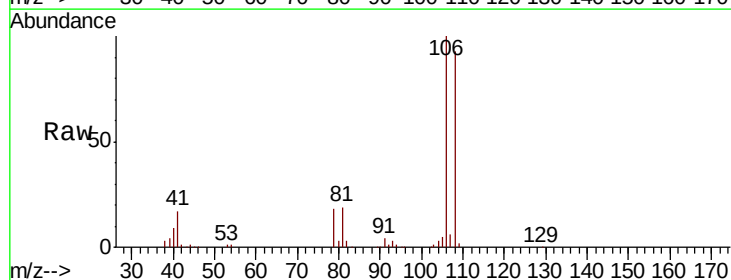
Manual Integrations
APPROVED

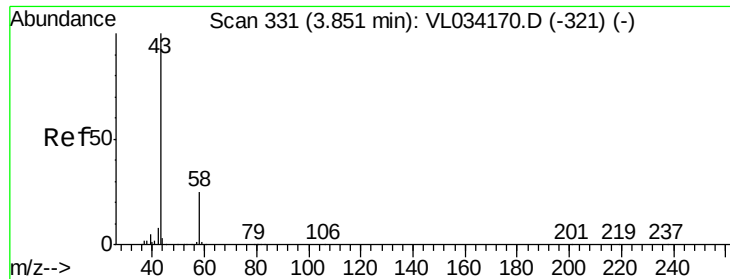
MMDadoda
10/16/2019 12:59:11 AM



#14
Bromoethene
Concen: 11.697 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	108	106	79	Ratio	Lower	Upper
386663	100	109.1	21.0		86.2	129.4





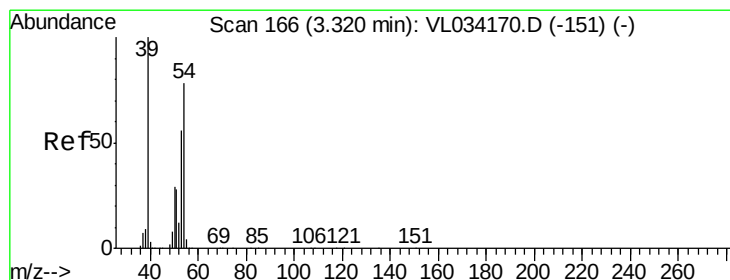
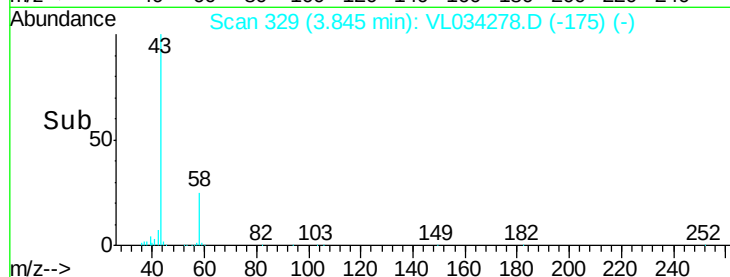
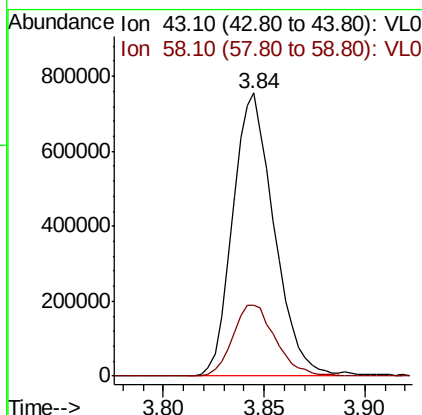
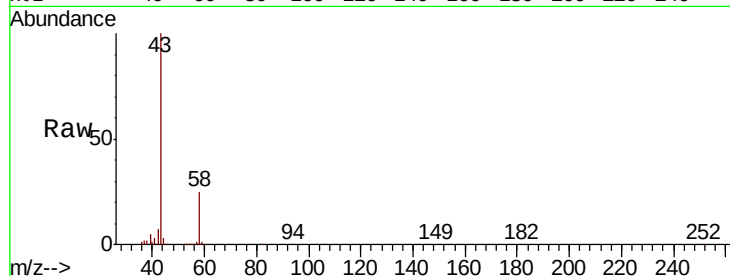
#15
Acetone
Concen: 8.805 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1084360
Ion Ratio Lower Upper
43 100
58 26.0 20.5 30.7

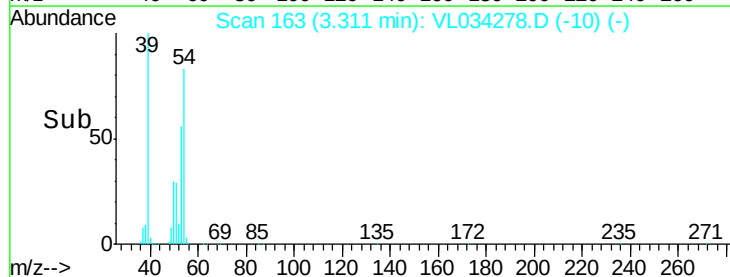
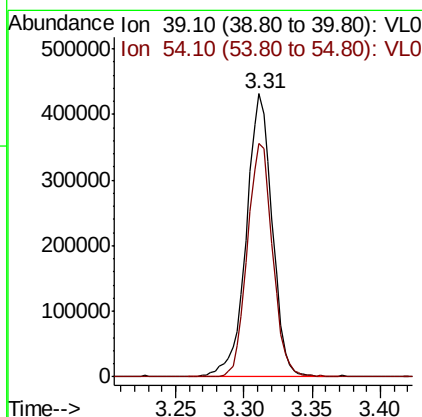
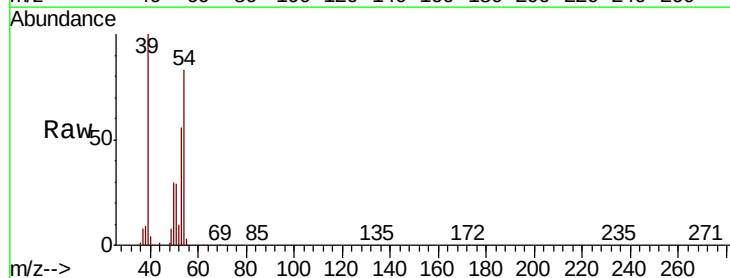
Manual Integrations
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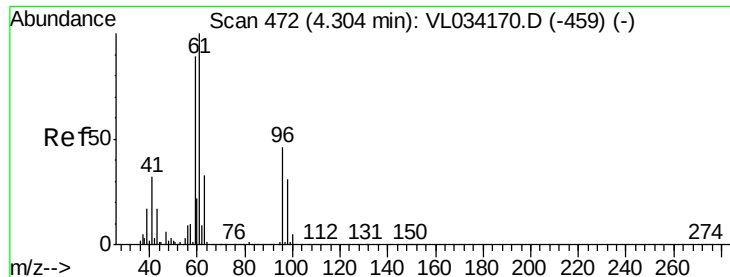
MMDadoda
10/16/2019 12:59:11 AM



#16
1,3-Butadiene
Concen: 10.578 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion: 39 Resp: 568519
Ion Ratio Lower Upper
39 100
54 80.7 63.4 95.0





#17

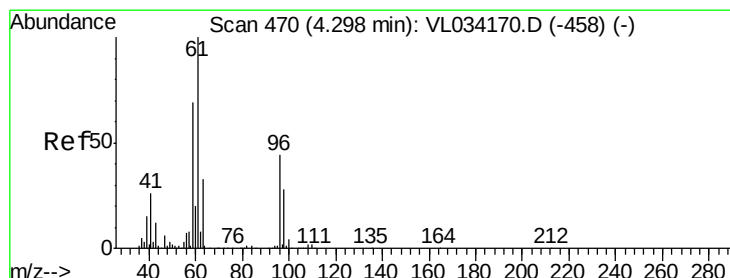
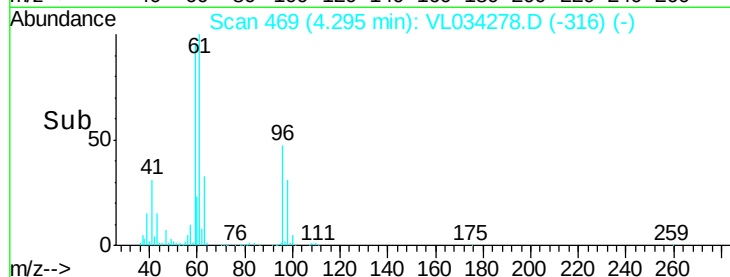
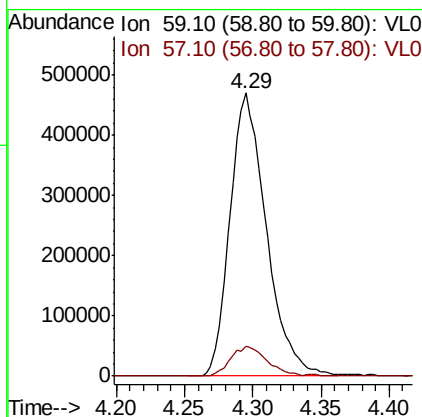
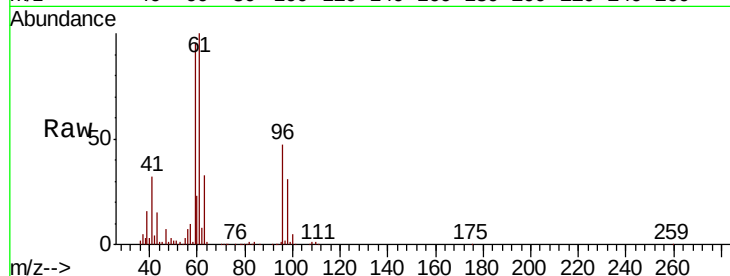
tert-Butyl alcohol
 Concen: 11.168 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 871485
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.7 13.1

Manual Integrations
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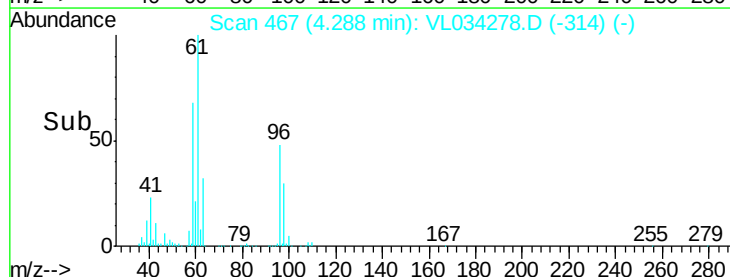
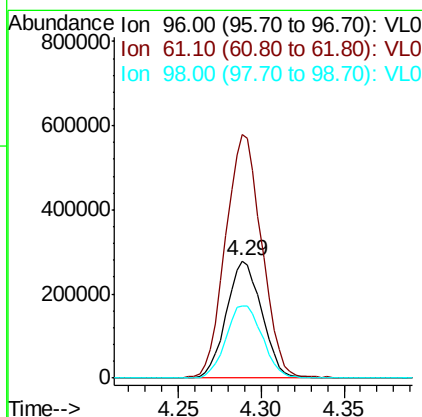
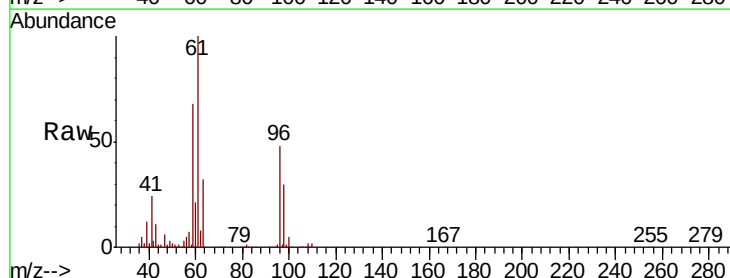
MMDadoda
 10/16/2019 12:59:11 AM

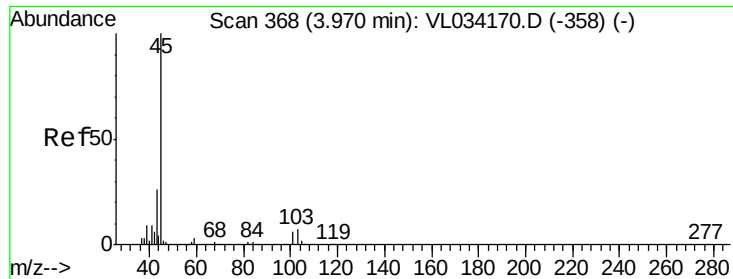


#18

1,1-Dichloroethene
 Concen: 11.692 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion: 96 Resp: 412315
 Ion Ratio Lower Upper
 96 100
 61 207.9 183.3 274.9
 98 61.8 51.4 77.2





#19

Isopropyl Alcohol

Concen: 9.775 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 740233

Ion Ratio Lower Upper

45 100

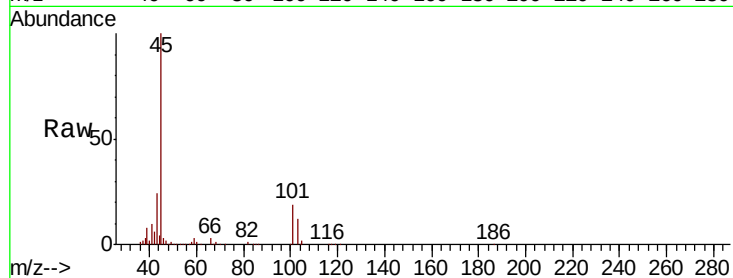
58 1.5 1.4 2.0

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

400000

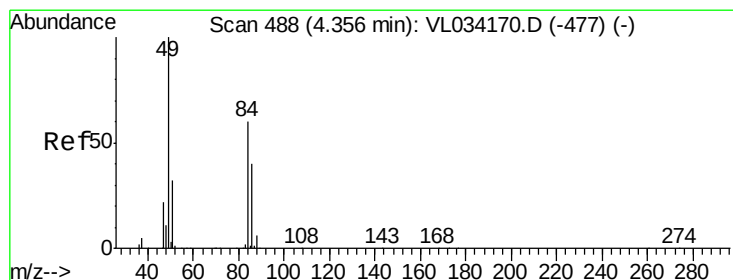
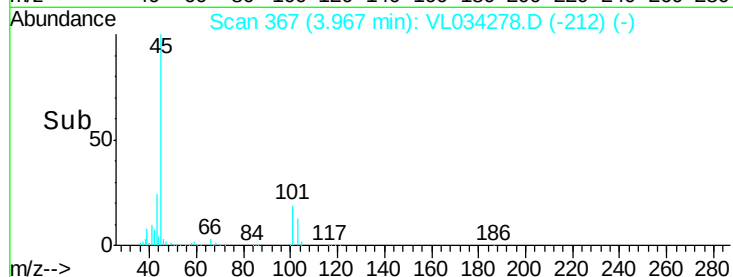
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.382 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Tgt Ion: 84 Resp: 368650

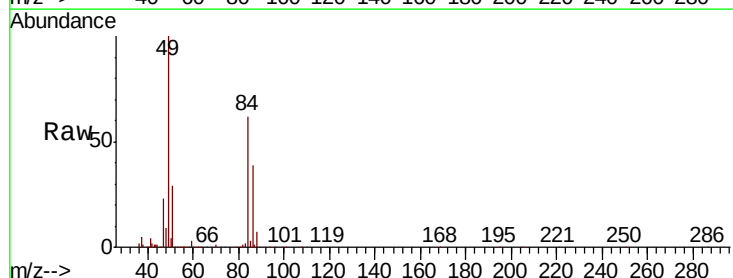
Ion Ratio Lower Upper

84 100

49 159.9 133.8 200.8

51 45.8 43.6 65.4

86 62.3 53.1 79.7



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

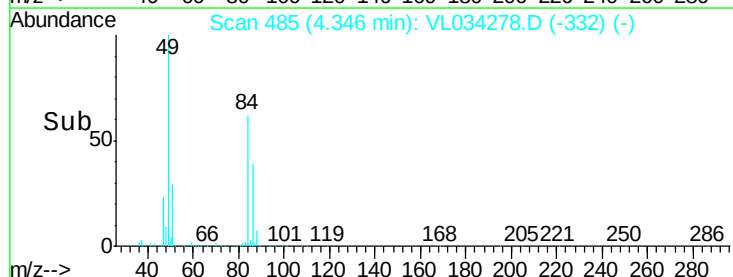
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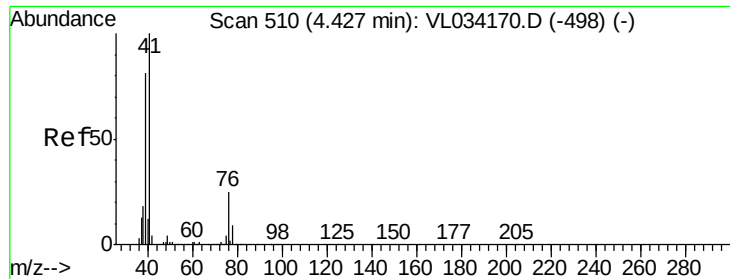
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 11.292 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

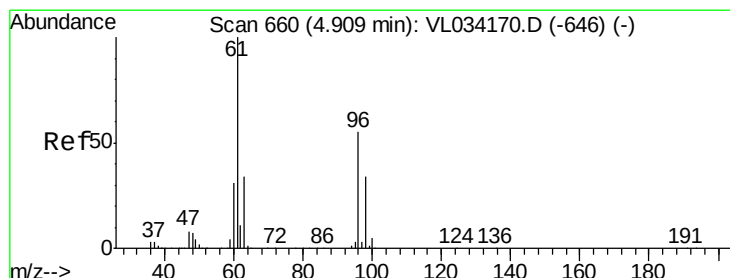
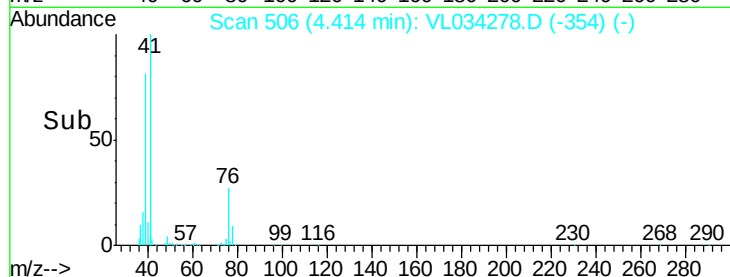
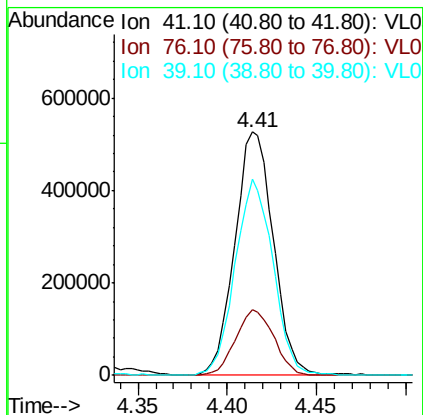
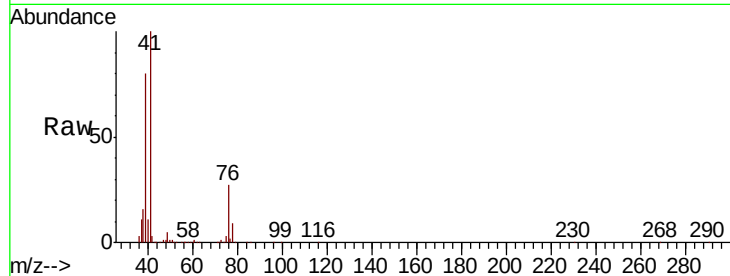
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	785464
Ion Ratio		Lower	Upper
41	100		
76	27.0	21.8	32.6
39	79.7	64.8	97.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 11.905 ppbv

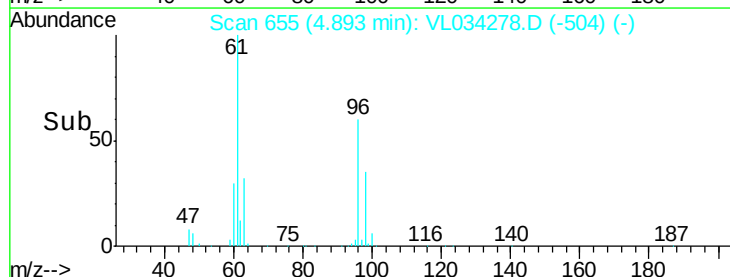
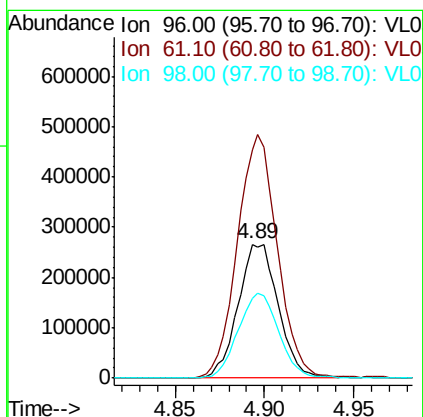
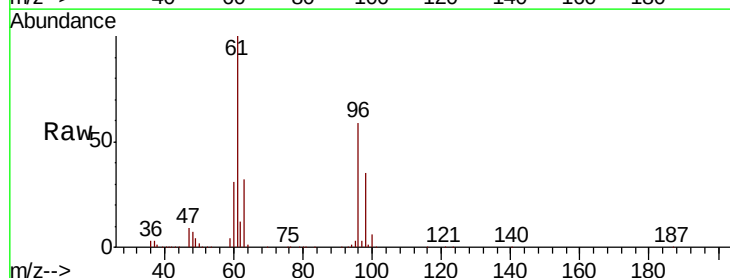
RT: 4.89 min Scan# 655

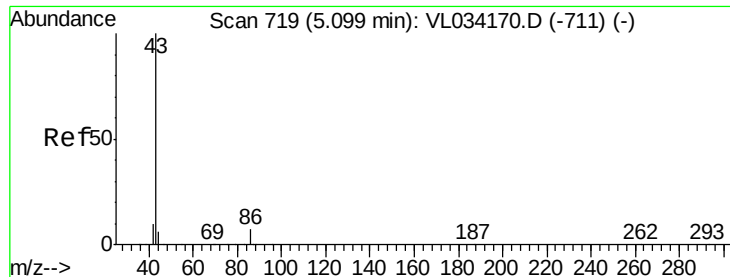
Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Tgt Ion:	96	Resp:	420035
Ion Ratio		Lower	Upper
96	100		
61	169.7	145.5	218.3
98	59.5	49.9	74.9





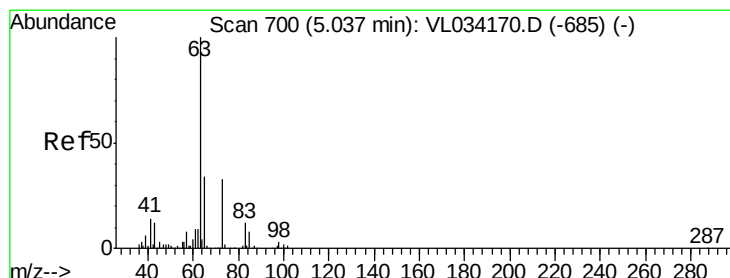
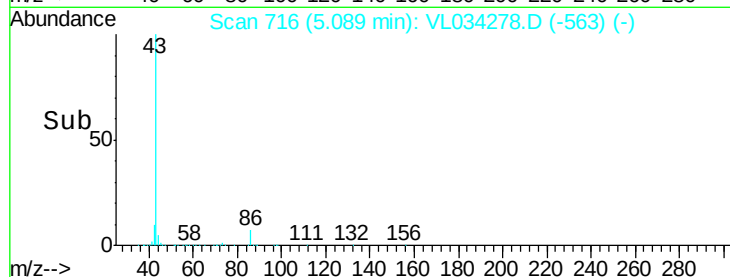
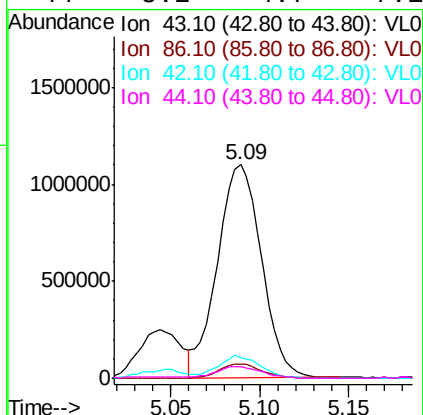
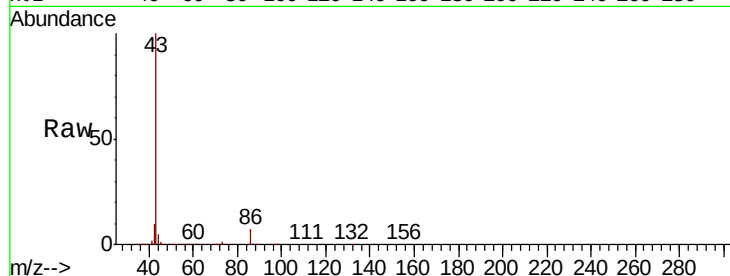
#23
 Vinyl Acetate
 Concen: 10.391 ppbv
 RT: 5.09 min Scan# 716
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	43	Resp	1885824
Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.1	7.7
42	9.7	8.6	12.8
44	5.2	4.7	7.1

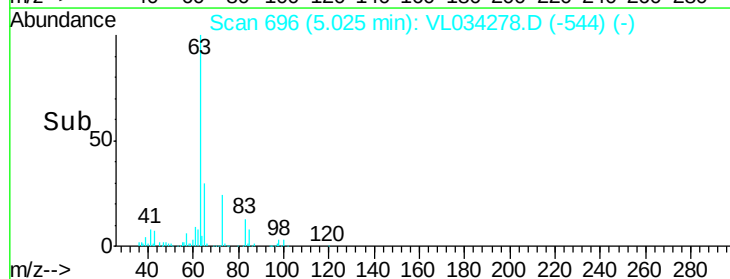
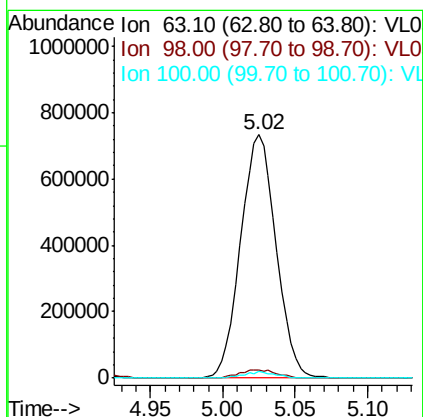
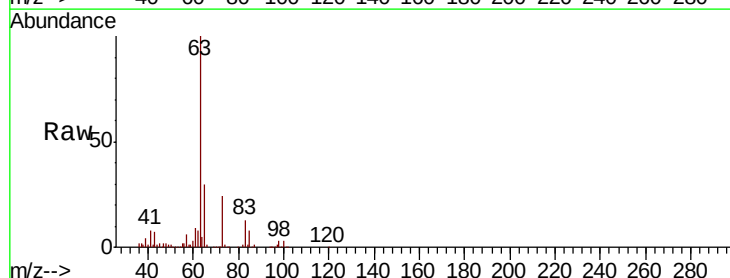
Manual Integrations
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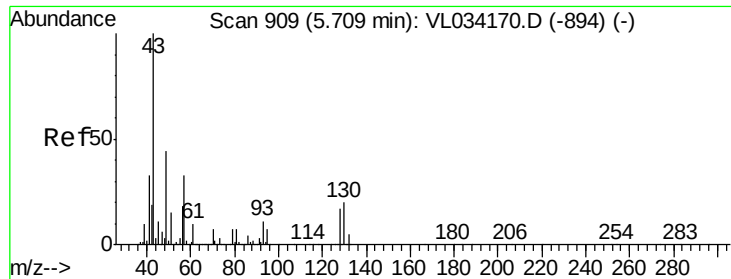
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#24
 1,1-Dichloroethane
 Concen: 10.188 ppbv
 RT: 5.02 min Scan# 696
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion	63	Resp	1244954
Ion	Ratio	Lower	Upper
63	100		
98	3.4	1.8	5.3
100	2.8	1.0	3.0





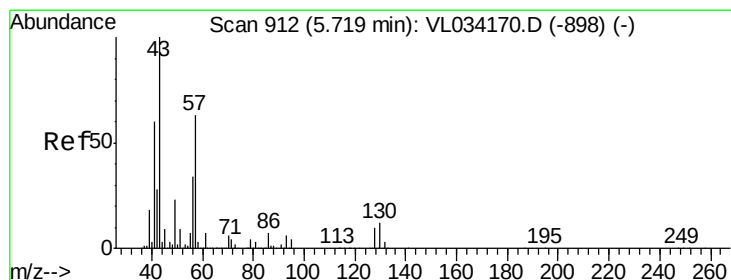
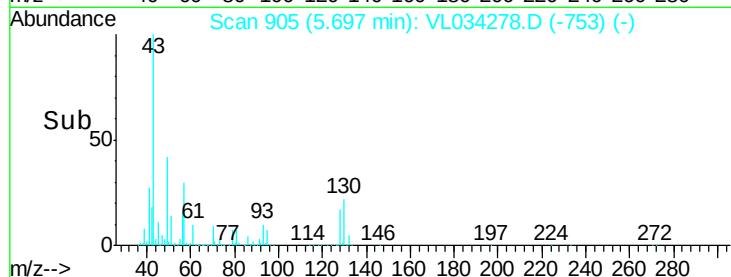
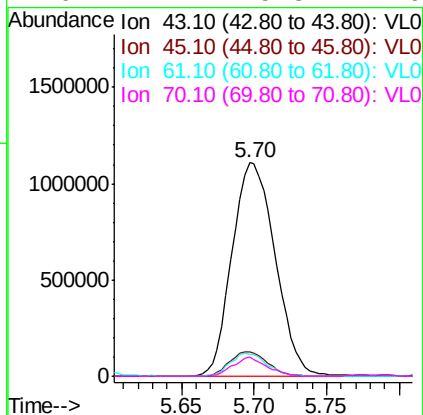
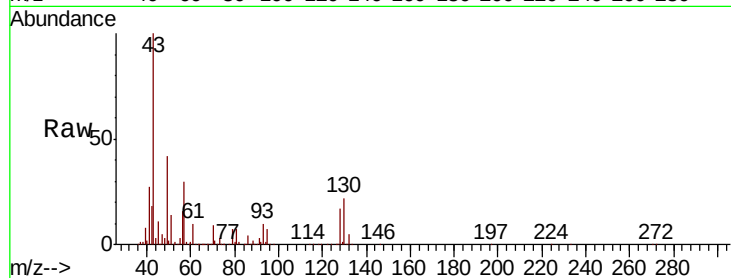
#25
Ethyl Acetate
Concen: 9.837 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.4	12.6	
61	9.4	7.2	10.8	
70	7.1	5.3	7.9	

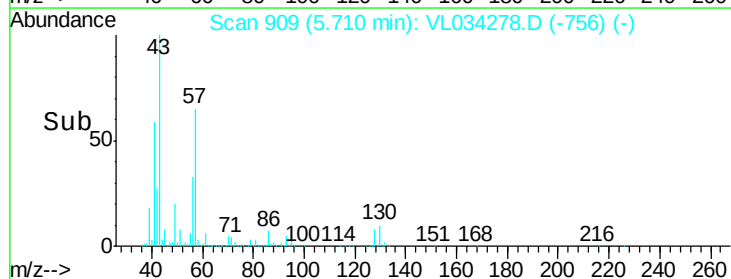
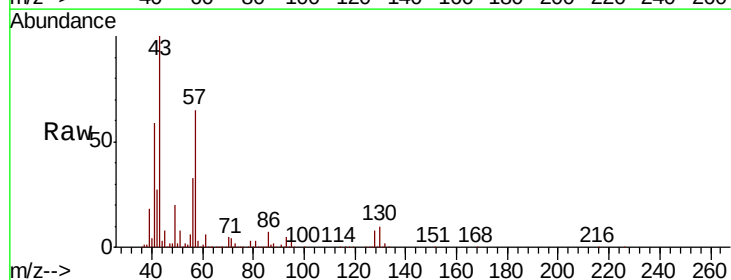
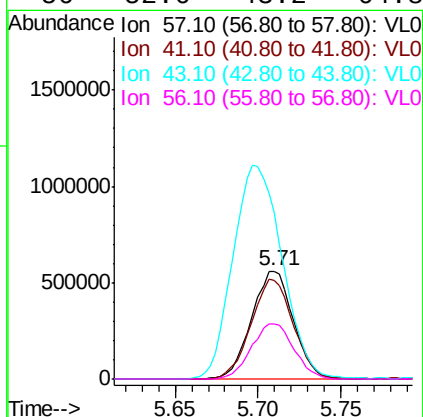
Manual Integrations
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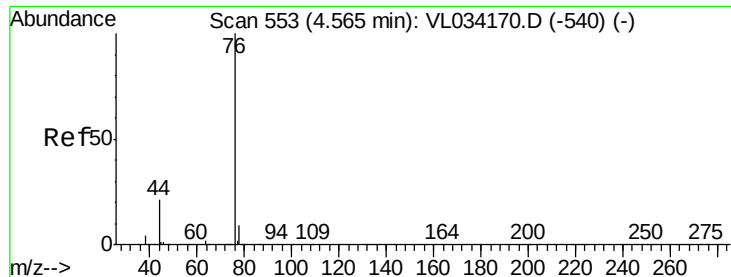
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#26
Hexane
Concen: 10.169 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	94.2	78.5	117.7	
43	233.8	189.5	284.3	
56	52.6	43.2	64.8	





#27

Carbon Disulfide

Concen: 12.073 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1078601

Ion Ratio Lower Upper

76 100

44 20.6 17.6 26.4

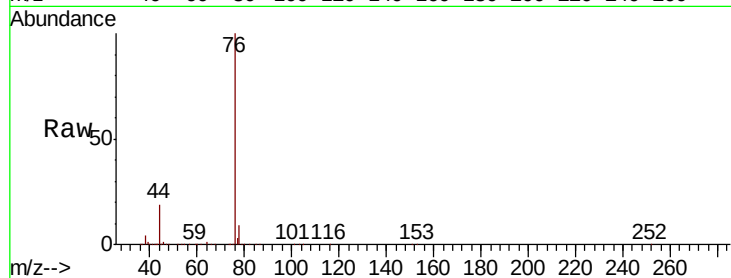
78 9.5 7.6 11.4

Manual Integrations

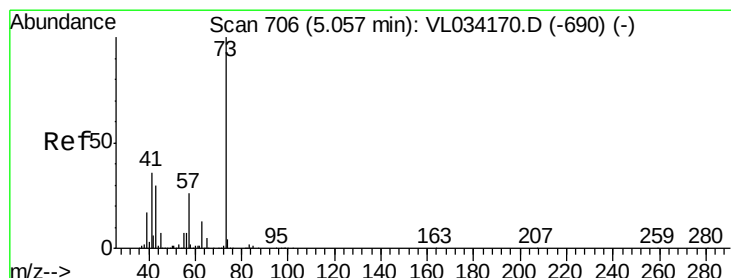
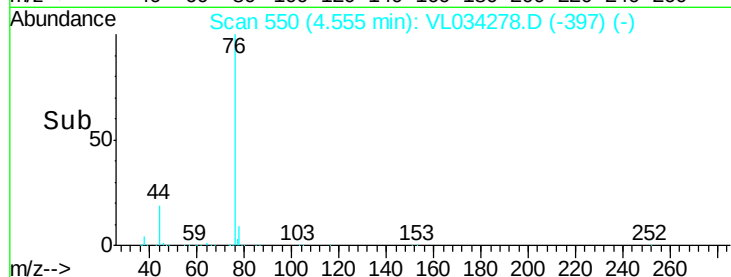
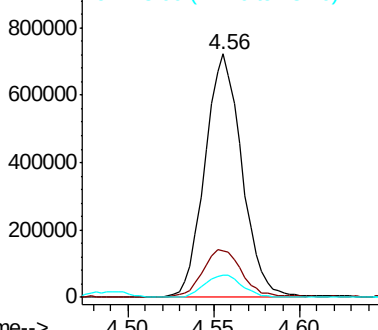
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.195 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL034278.D

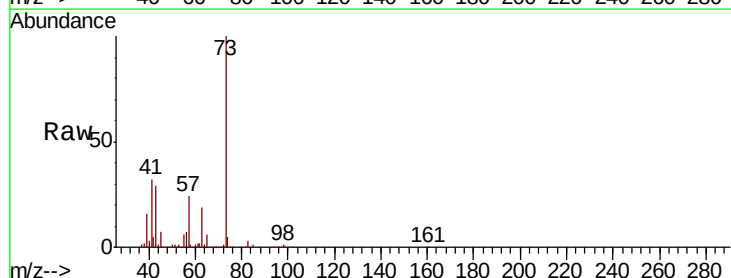
Acq: 14 Oct 2019 9:20

Tgt Ion: 73 Resp: 1610660

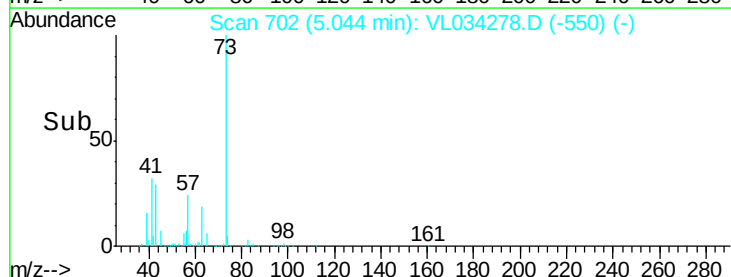
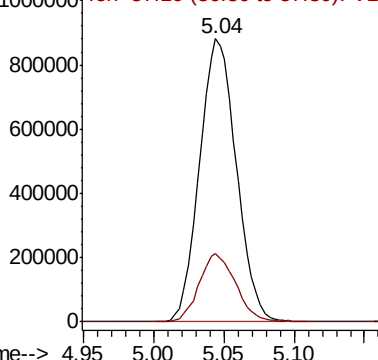
Ion Ratio Lower Upper

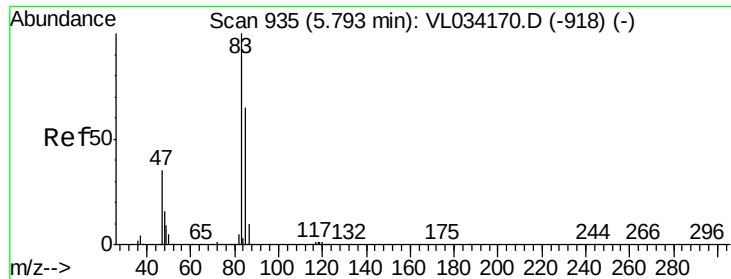
73 100

57 24.1 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





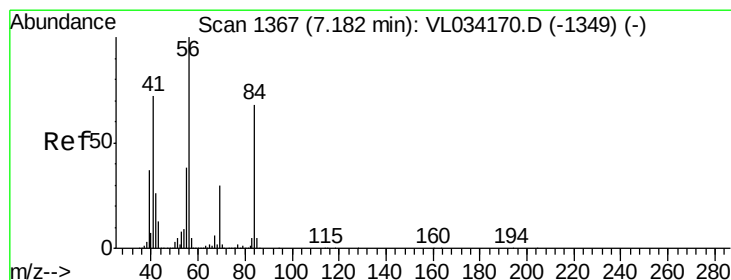
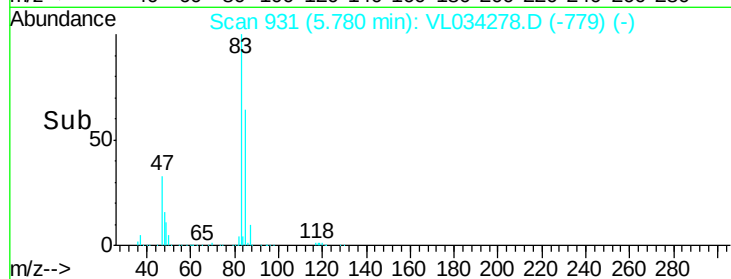
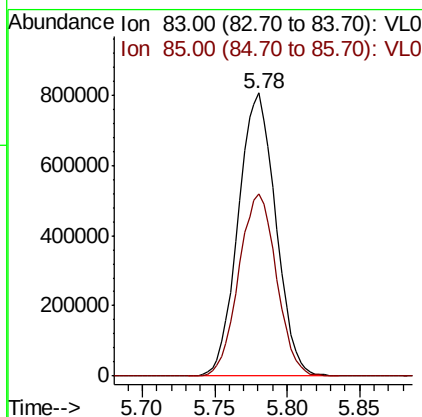
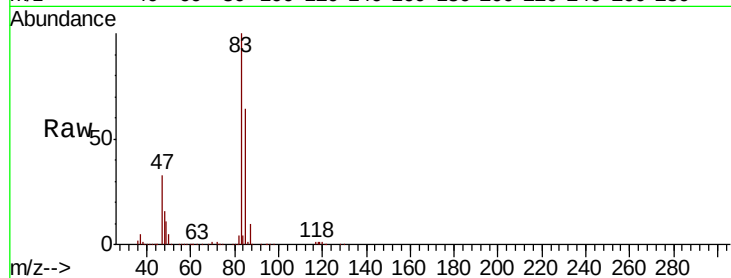
#29
Chloroform
Concen: 10.490 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1452191
Ion Ratio Lower Upper
83 100
85 64.2 52.3 78.5

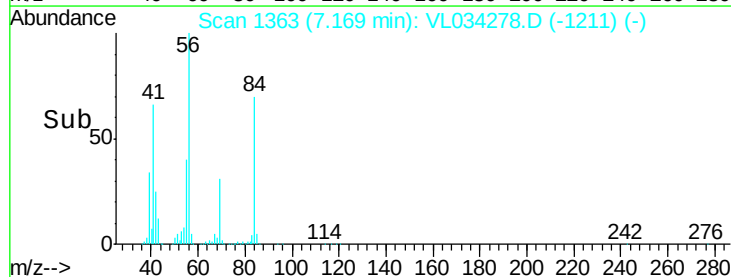
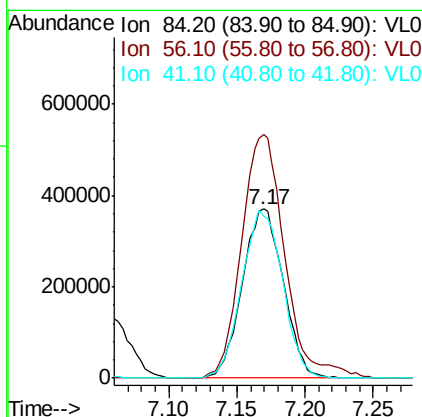
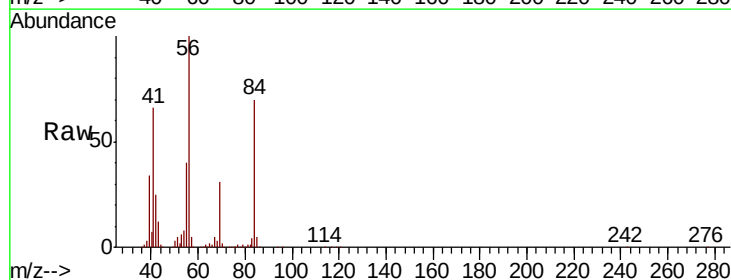
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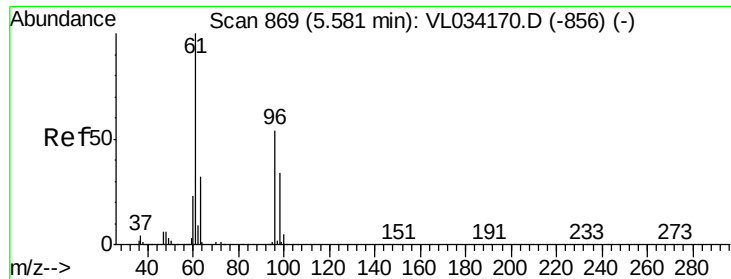
MMDadoda
10/16/2019 12:59:11 AM



#30
Cyclohexane
Concen: 11.081 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion: 84 Resp: 775012
Ion Ratio Lower Upper
84 100
56 151.6 126.2 189.2
41 99.0 85.8 128.8





#31

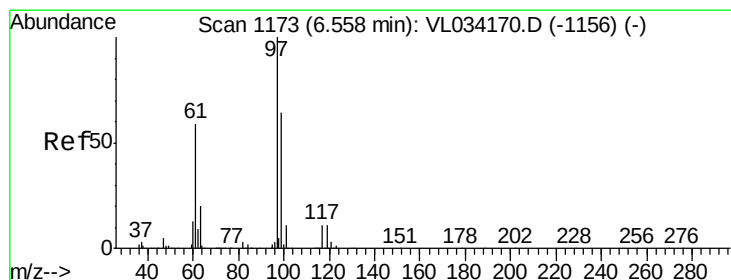
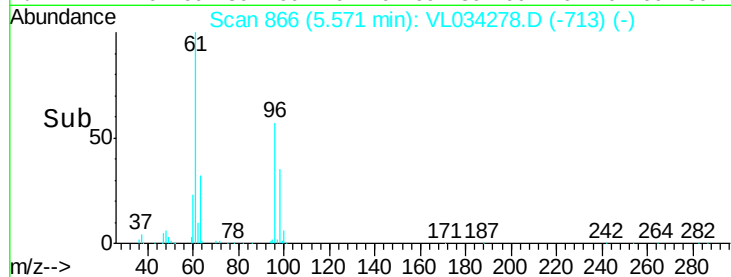
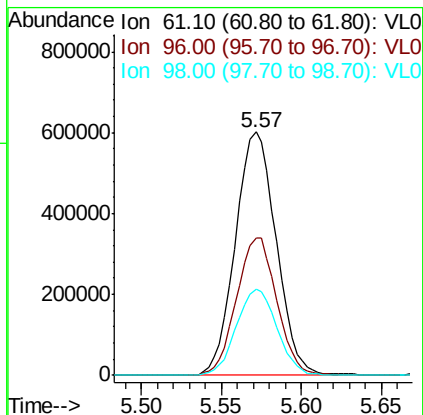
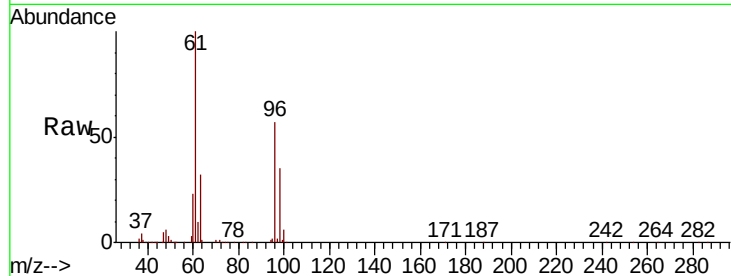
cis-1,2-Dichloroethene
 Concen: 10.572 ppbv
 RT: 5.57 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 61 Resp: 1044073
 Ion Ratio Lower Upper
 61 100
 96 56.5 43.0 64.4
 98 35.3 27.2 40.8

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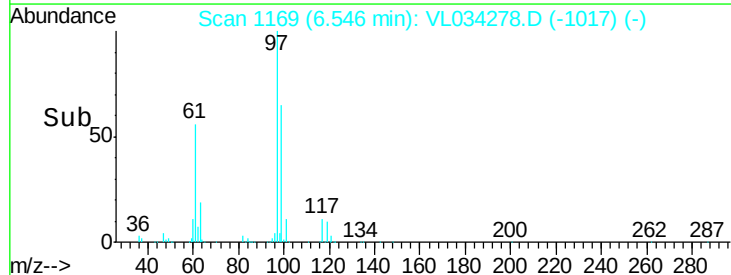
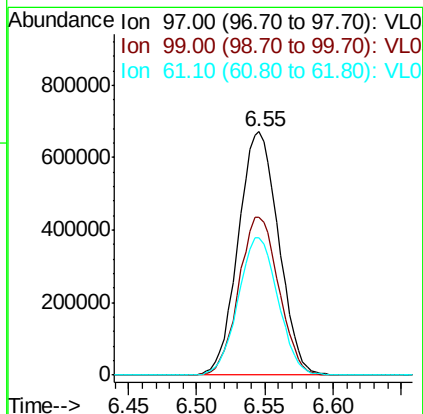
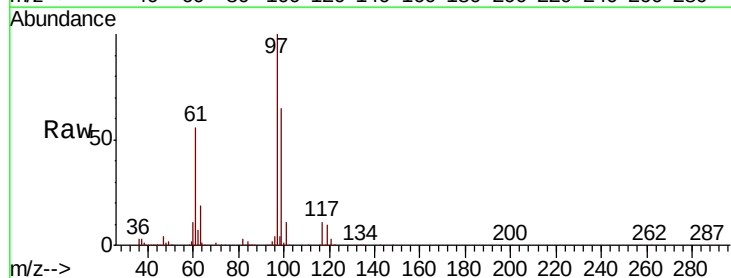
MMDadoda
 10/16/2019 12:59:11 AM

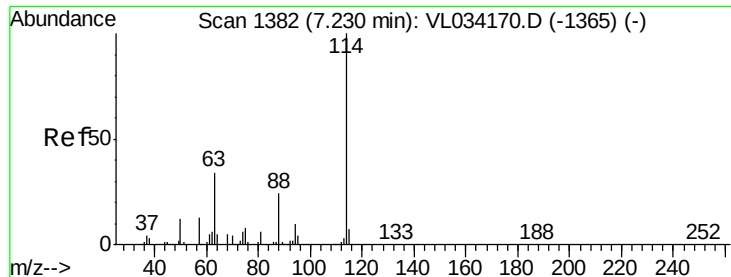


#32

1,1,1-Trichloroethane
 Concen: 10.317 ppbv
 RT: 6.55 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion: 97 Resp: 1377405
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.4 77.2
 61 56.1 48.4 72.6





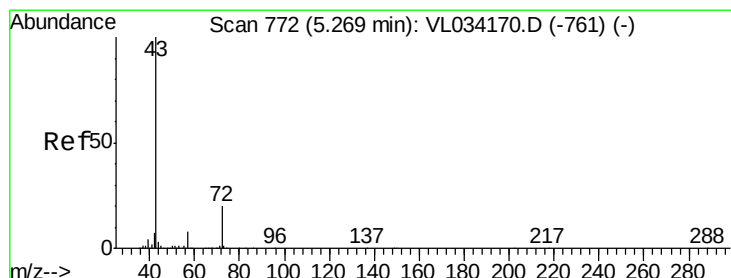
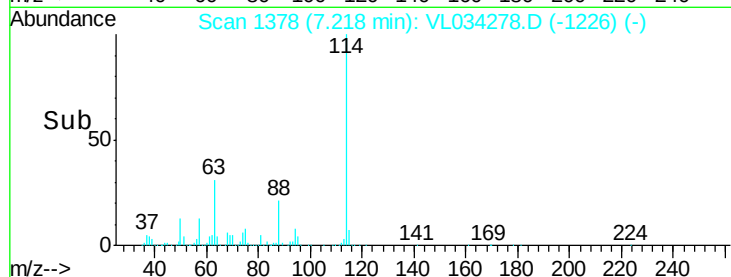
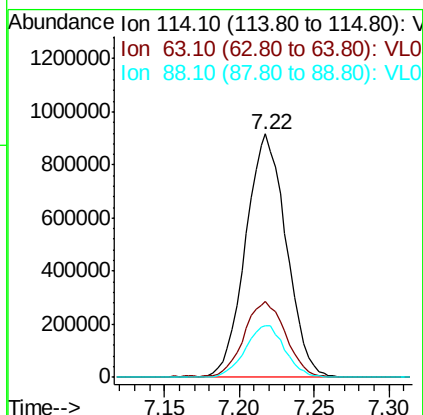
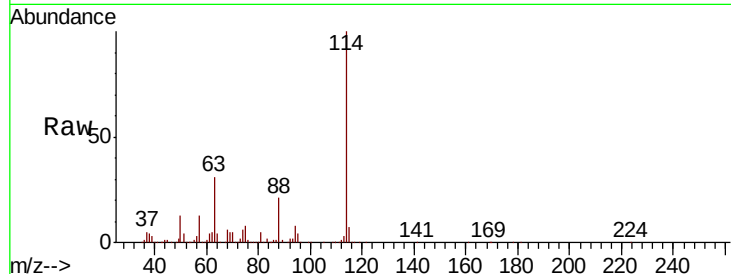
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	32.3	27.8	41.6
88	21.0	17.1	25.7

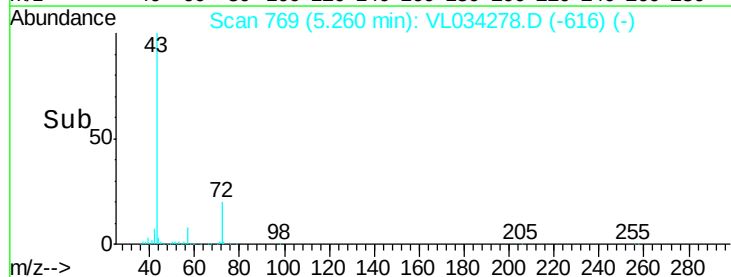
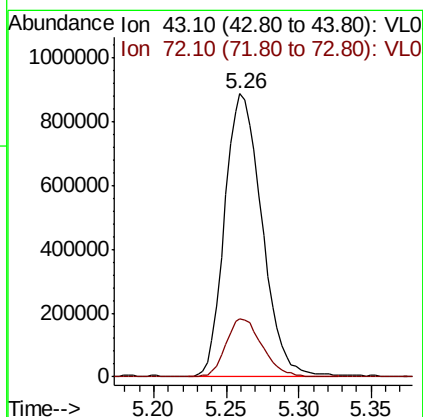
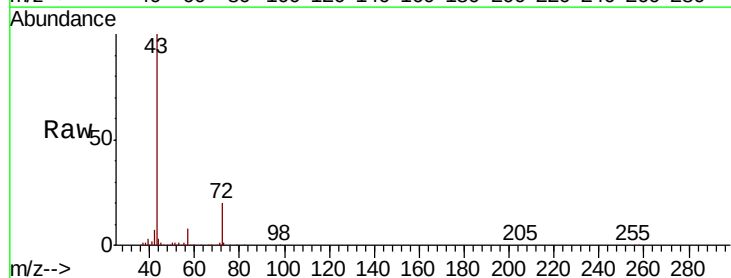
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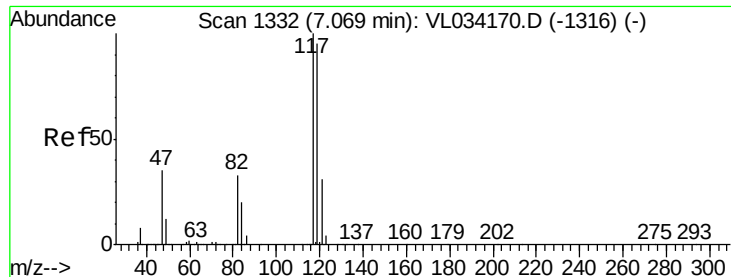
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#34
 2-Butanone
 Concen: 8.880 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	15.0	22.6





#35

Carbon Tetrachloride

Concen: 9.245 ppbv

RT: 7.06 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 117 Resp: 1329417

Ion Ratio Lower Upper

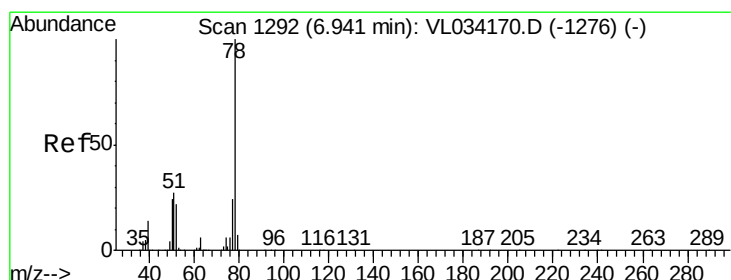
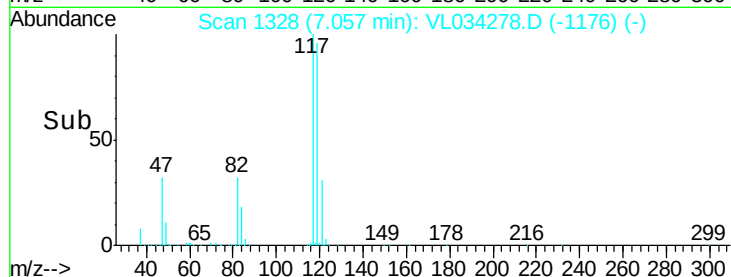
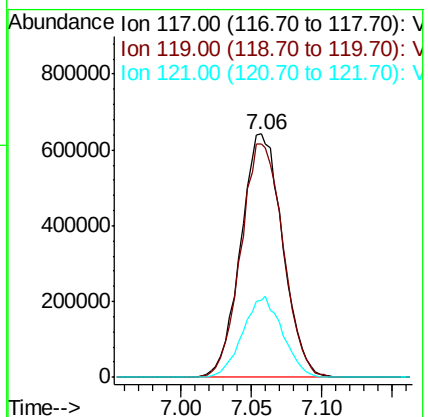
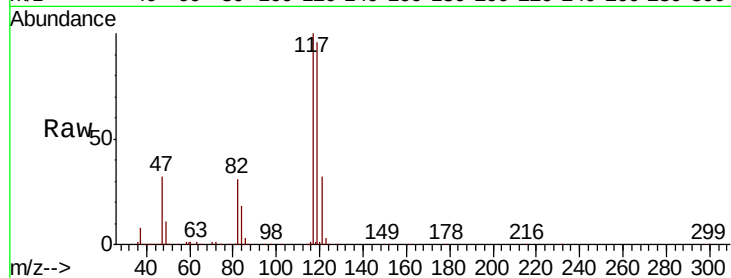
117 100

119 96.1 75.8 113.6

121 31.5 25.0 37.6

Manual Integrations
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#36

Benzene

Concen: 9.752 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

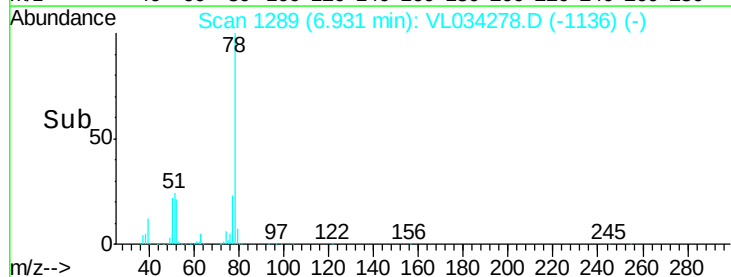
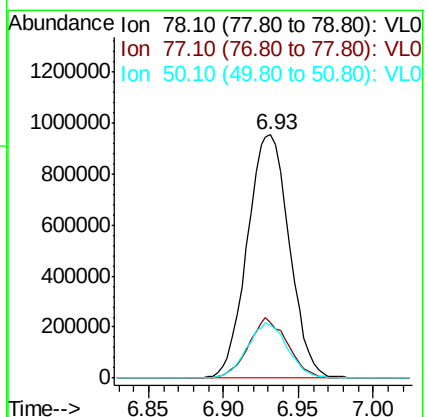
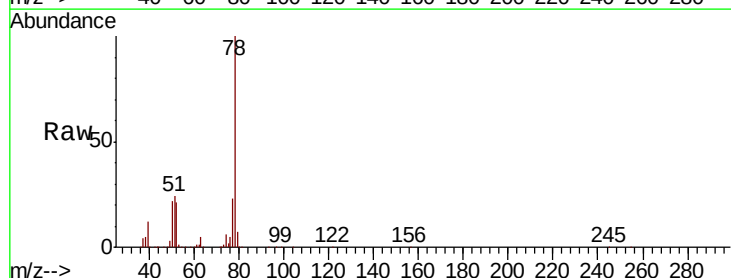
Tgt Ion: 78 Resp: 1864243

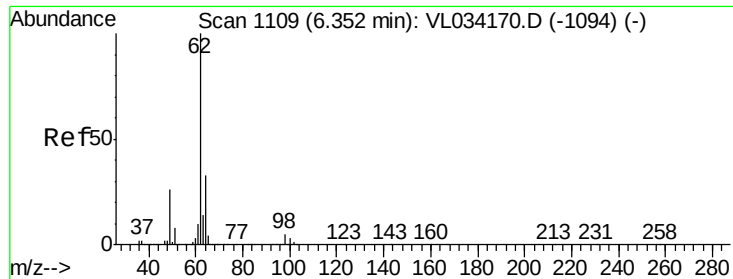
Ion Ratio Lower Upper

78 100

77 23.0 19.0 28.4

50 21.7 18.9 28.3





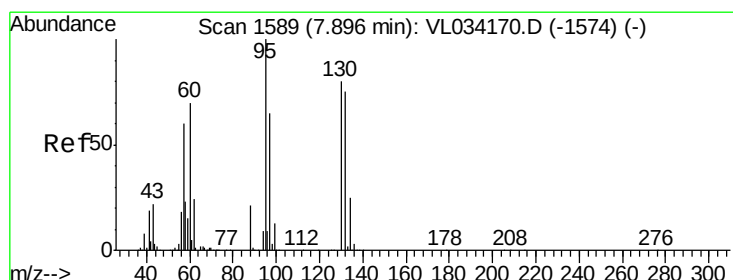
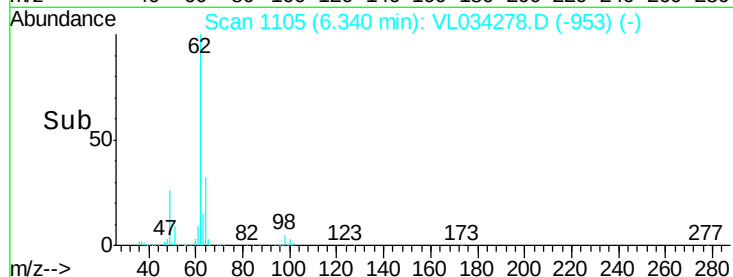
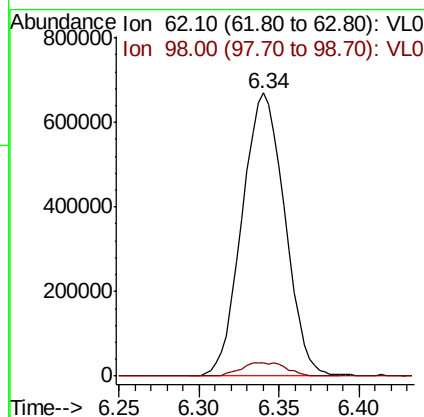
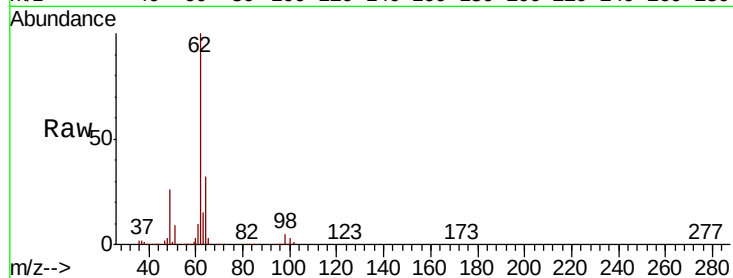
#37
 1,2-Dichloroethane
 Concen: 8.993 ppbv
 RT: 6.34 min Scan# 1105
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.2	3.8	5.8

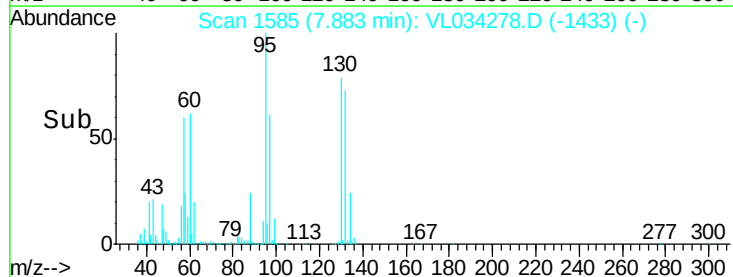
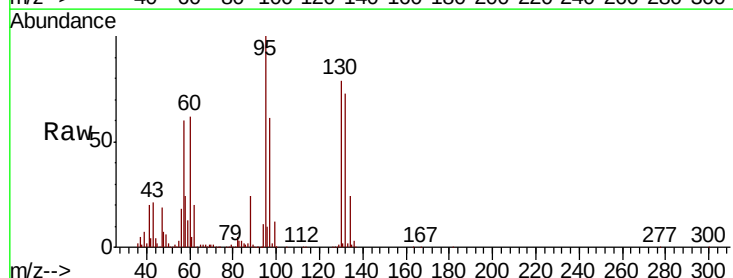
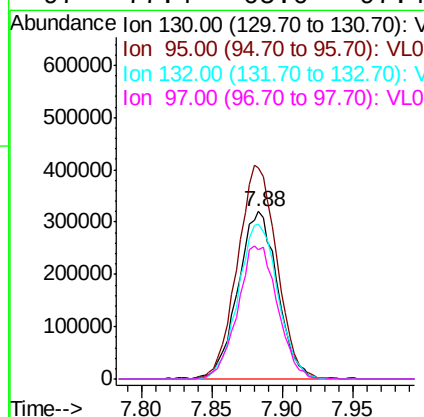
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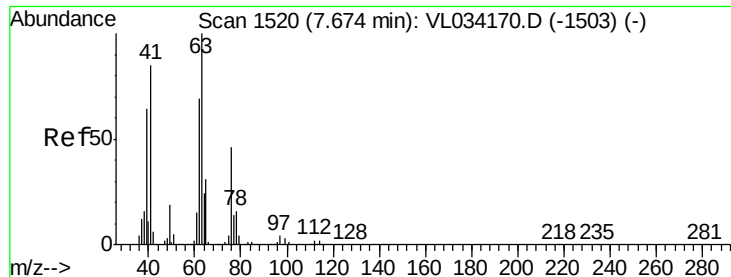
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#38
 Trichloroethene
 Concen: 9.151 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	126.7	99.8	149.6
132	92.3	75.2	112.8
97	77.4	65.0	97.4





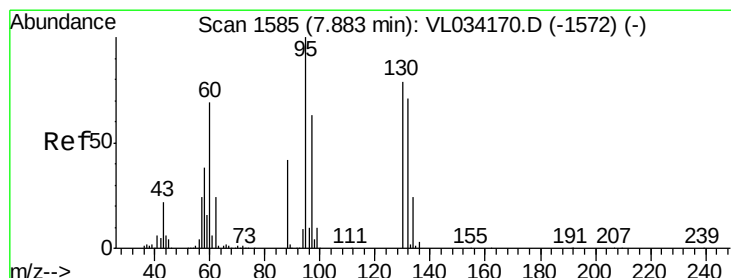
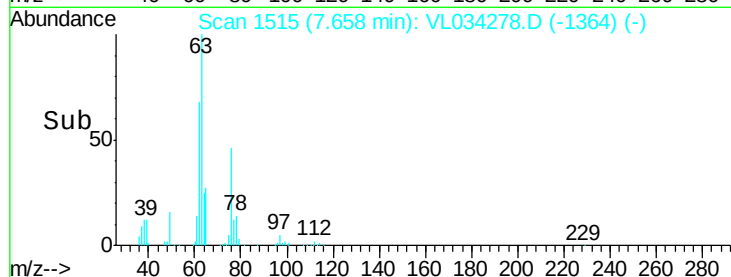
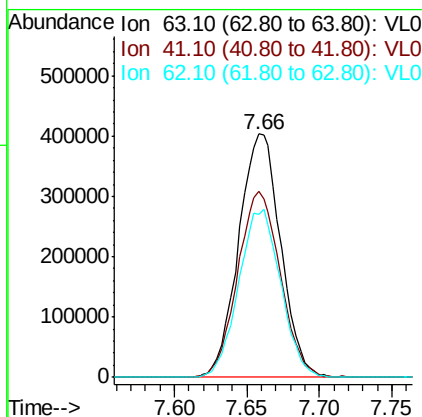
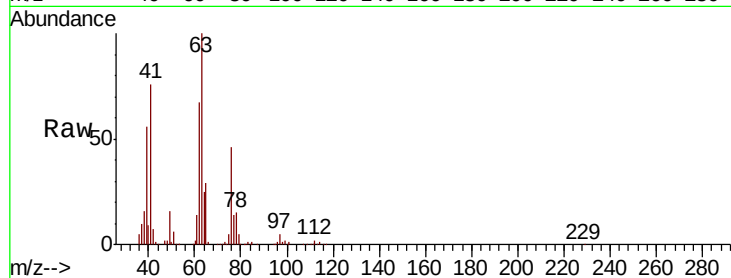
#39
 1,2-Dichloropropane
 Concen: 9.427 ppbv
 RT: 7.66 min Scan# 1515
 Delta R.T. -0.02 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.3	68.4	102.6
62	67.2	55.4	83.2

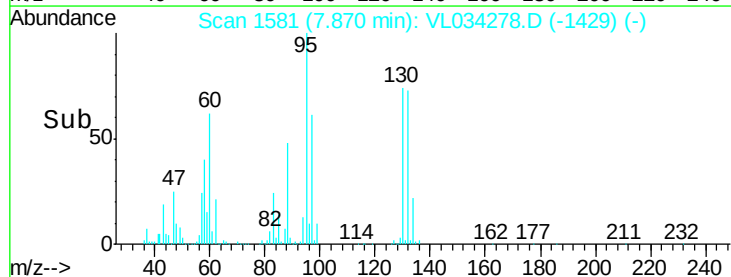
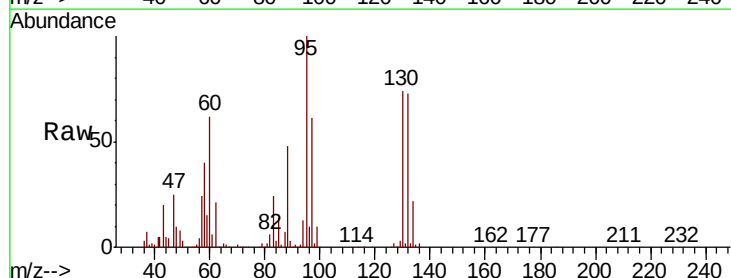
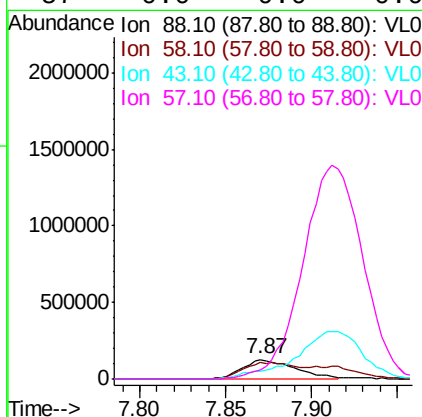
Manual Integrations
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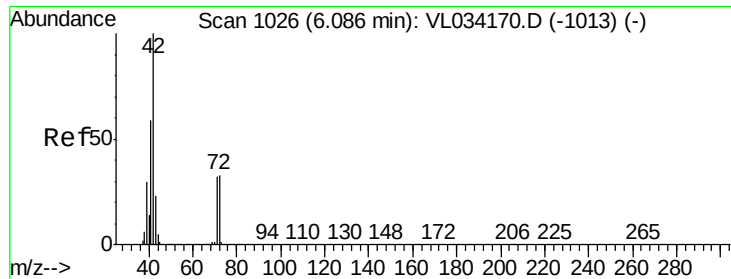
MMDadoda
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#40
 1,4-Dioxane
 Concen: 9.437 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
88	100		
58	151.4	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





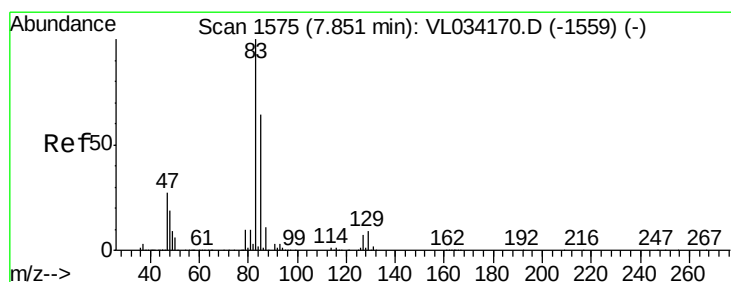
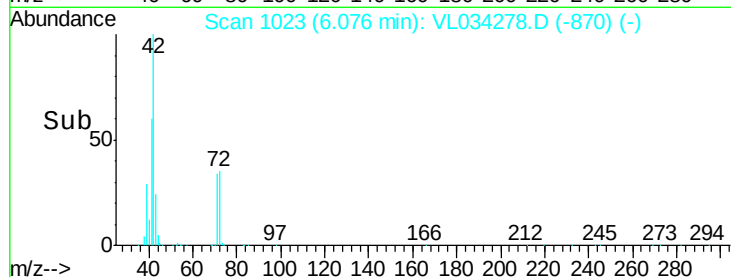
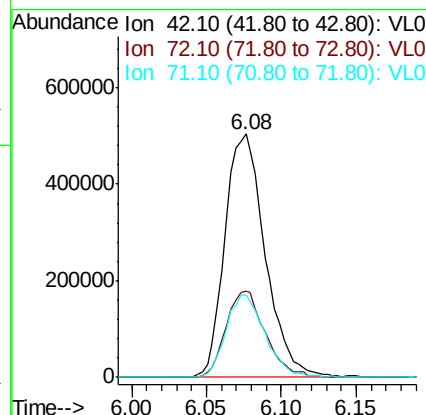
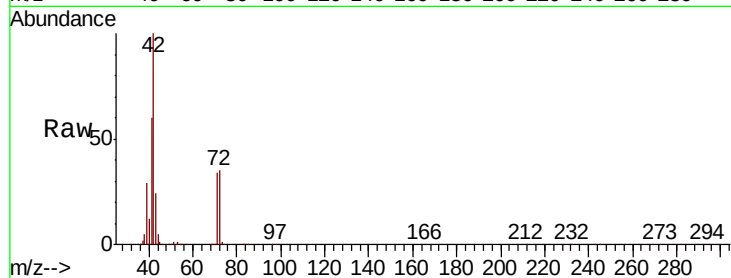
#41
Tetrahydrofuran
Concen: 9.460 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.1	26.6	40.0
71	33.1	25.1	37.7

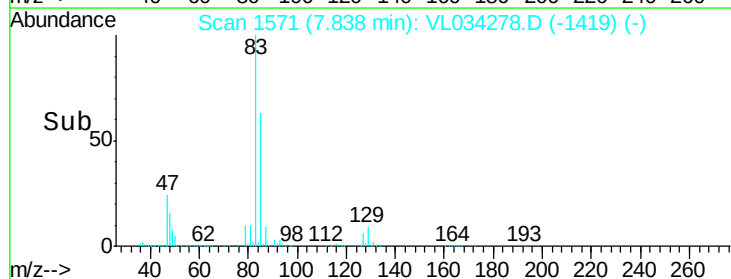
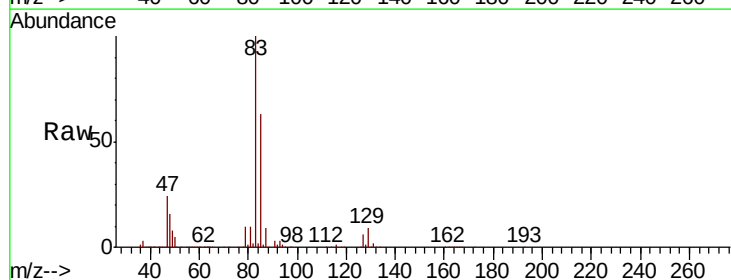
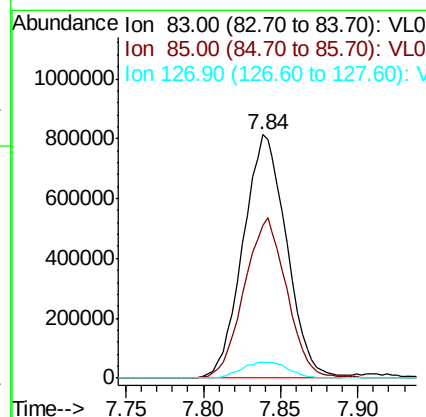
Manual Integrations
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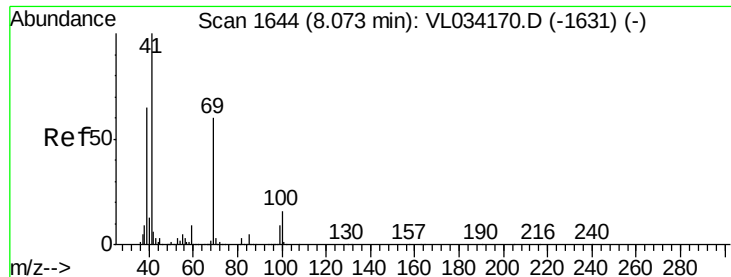
MMDadoda
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#42
Bromodichloromethane
Concen: 9.736 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.4	77.0
127	6.4	5.5	8.3





#43

Methyl Methacrylate

Concen: 10.105 ppbv

RT: 8.06 min Scan# 1640

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

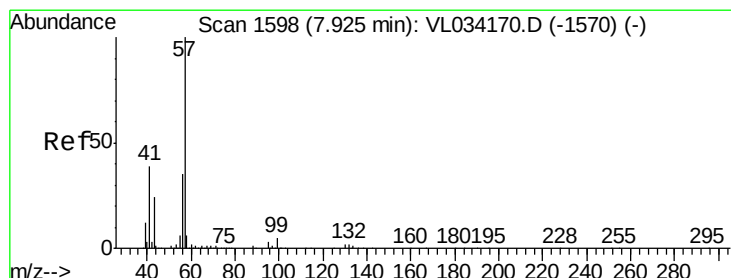
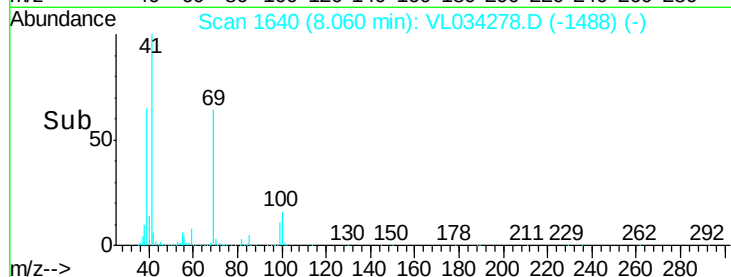
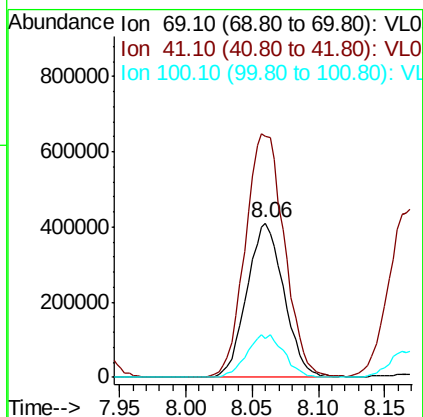
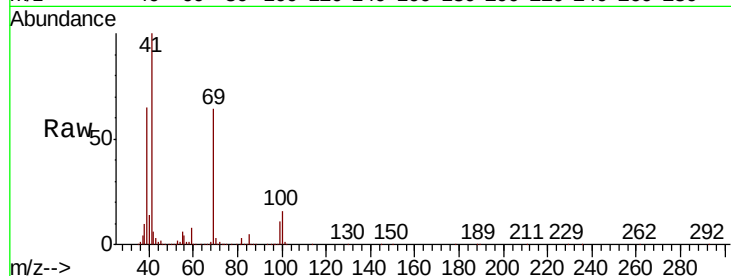
ClientSampleId :

VSTDCCC010

Tot Ion:	69	Resp:	797994
Ion Ratio	Lower	Upper	
69	100		
41	166.0	140.4	210.6
100	27.9	21.9	32.9

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 9.241 ppbv

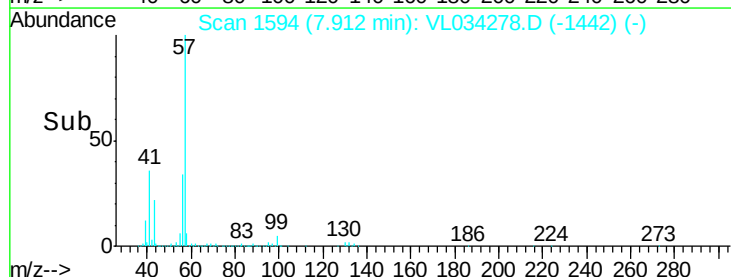
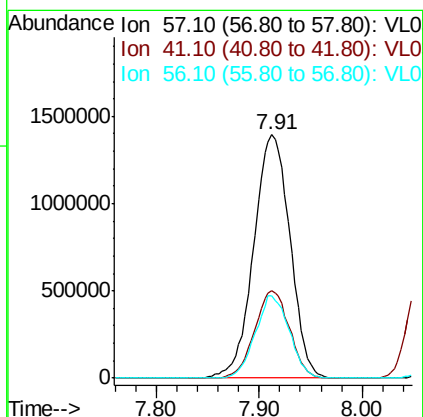
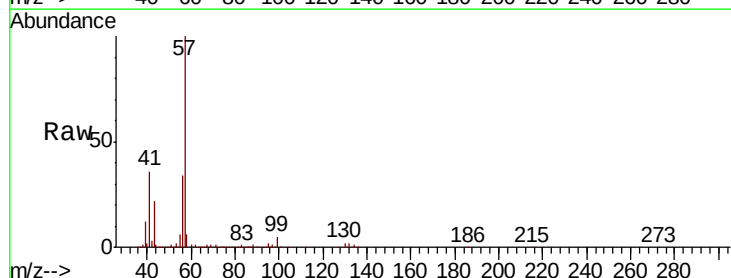
RT: 7.91 min Scan# 1594

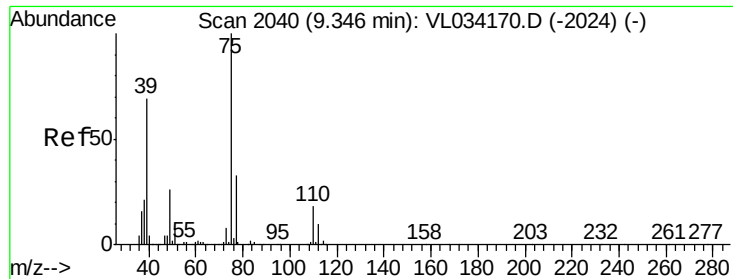
Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Tgt Ion:	57	Resp:	3401016
Ion Ratio	Lower	Upper	
57	100		
41	34.3	29.8	44.6
56	31.8	25.9	38.9





#45

t-1,3-Dichloropropene

Concen: 11.095 ppbv

RT: 9.34 min Scan# 2037

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1036007

Ion Ratio Lower Upper

75 100

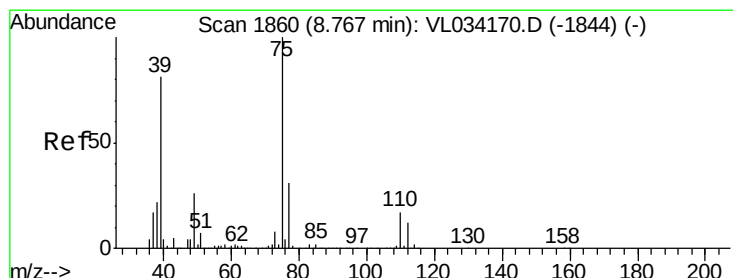
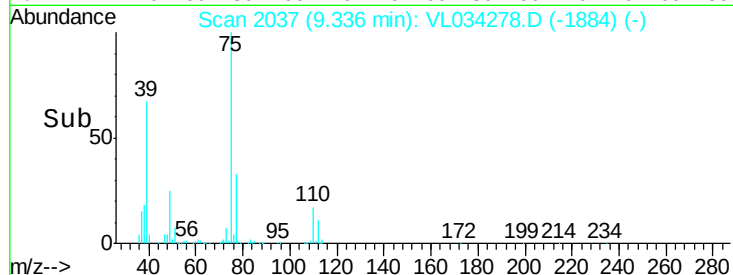
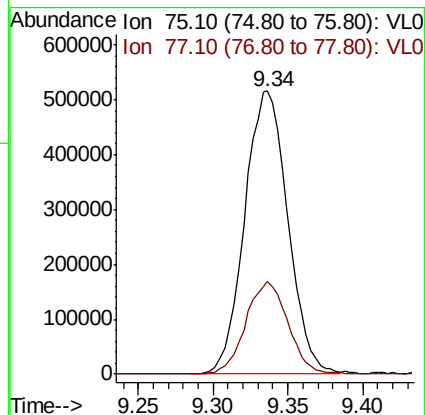
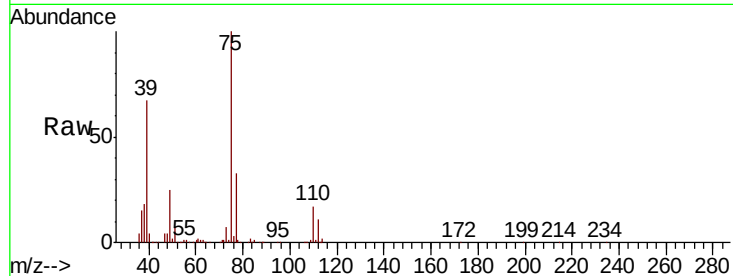
77 32.6 26.2 39.2

Manual Integrations

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10/16/2019 12:59:11 AM



#46

cis-1,3-Dichloropropene

Concen: 10.385 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

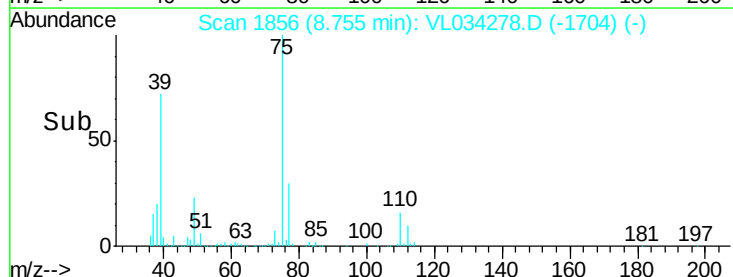
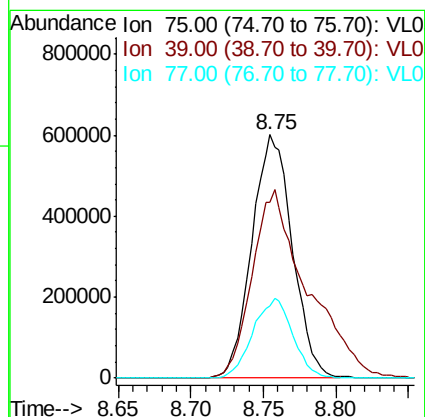
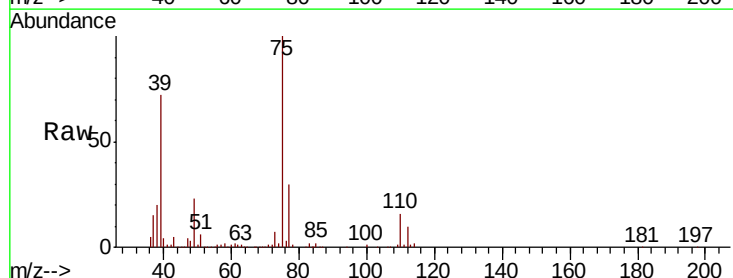
Tgt Ion: 75 Resp: 1166397

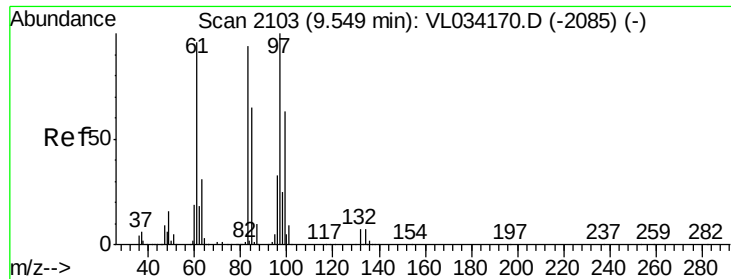
Ion Ratio Lower Upper

75 100

39 72.0 65.0 97.4

77 29.7 24.5 36.7





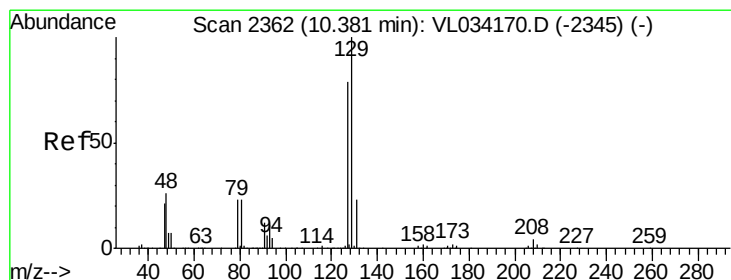
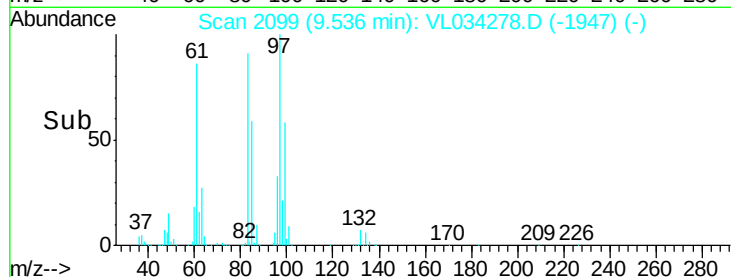
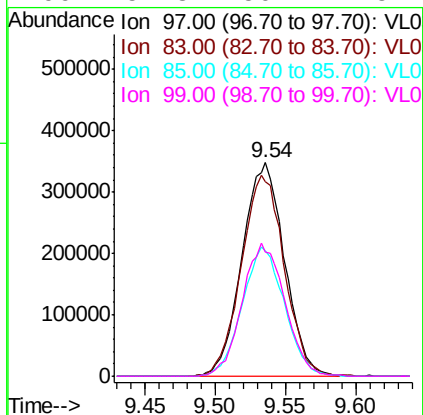
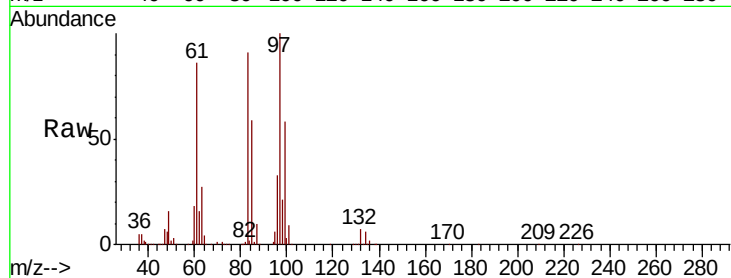
#47
 1,1,2-Trichloroethane
 Concen: 9.493 ppbv
 RT: 9.54 min Scan# 2099
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		732162		
83	91.2	75.3	112.9		
85	58.8	52.1	78.1		
99	57.8	50.2	75.2		

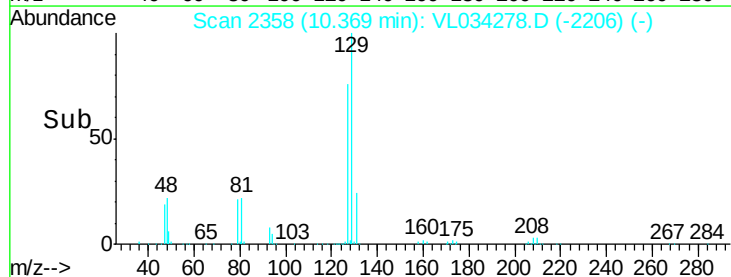
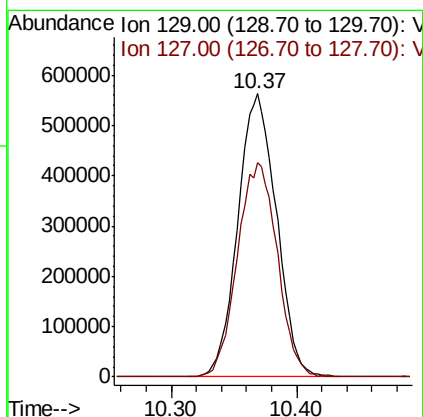
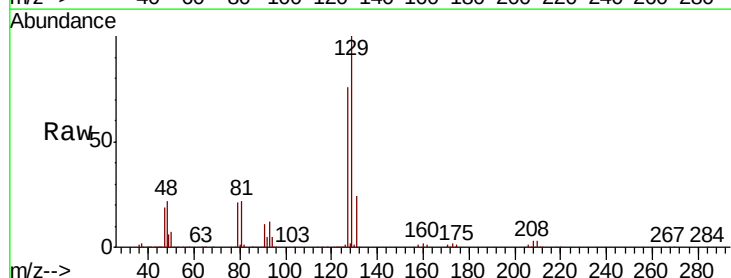
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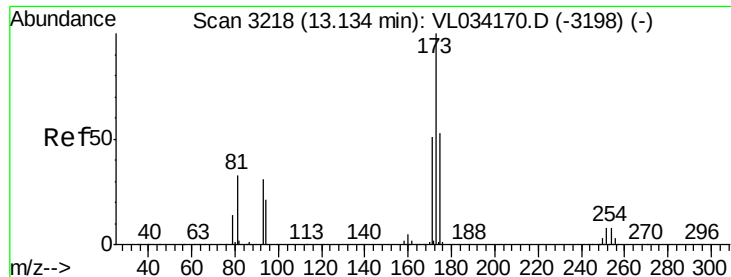
MMDadoda
 10/16/2019 12:59:11 AM



#48
 Dibromochloromethane
 Concen: 9.847 ppbv
 RT: 10.37 min Scan# 2358
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1203720		
127	77.9	39.2	117.6		





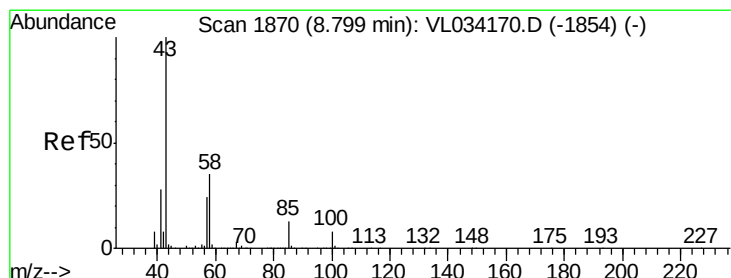
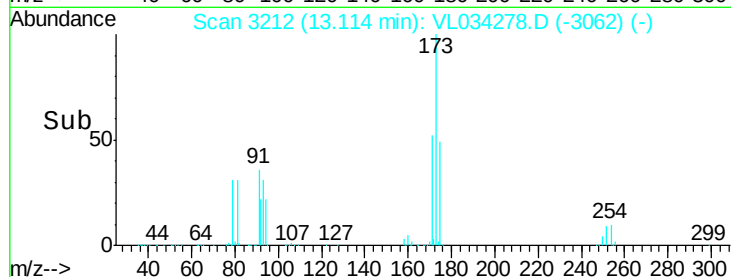
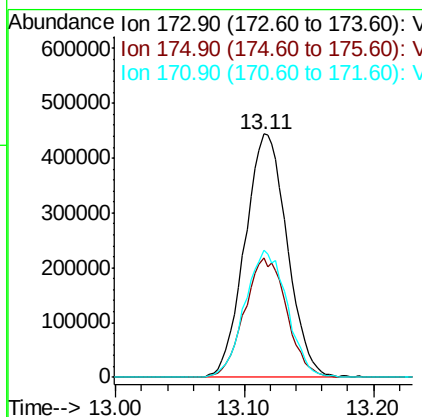
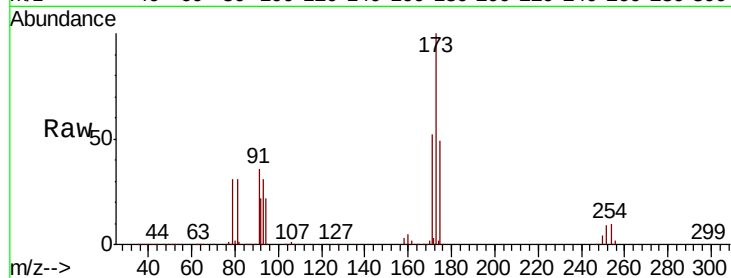
#49
Bromoform
Concen: 10.241 ppbv
RT: 13.11 min Scan# 3212
Delta R.T. -0.02 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	40.3	60.5
171	52.3	42.0	63.0

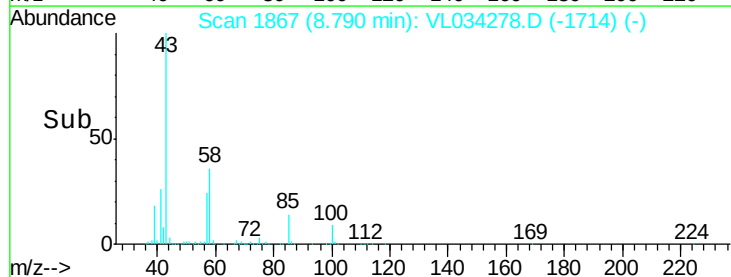
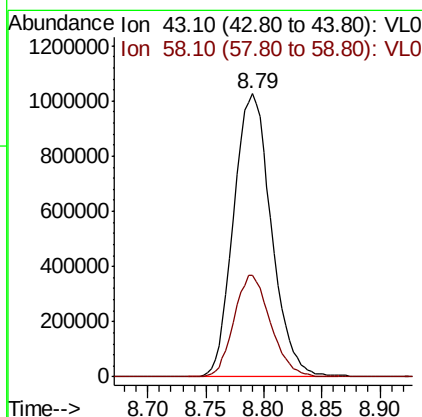
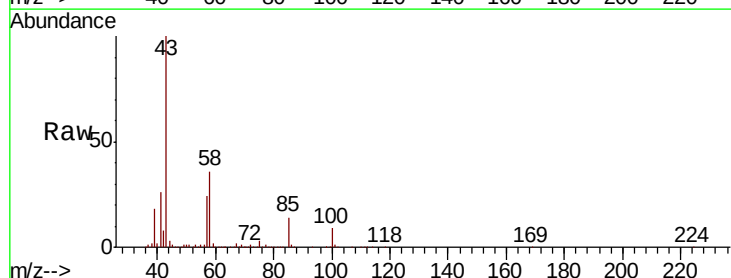
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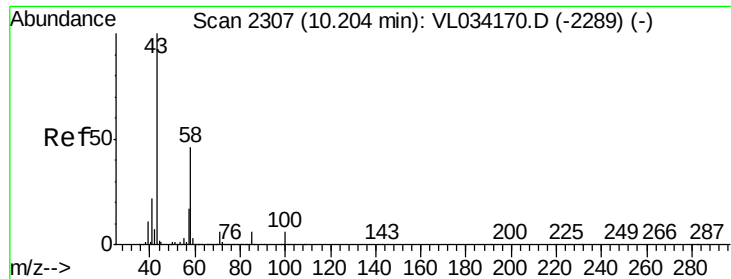
MMDadoda
10/16/2019 12:59:11 AM



#50
4-Methyl-2-Pentanone
Concen: 8.989 ppbv
RT: 8.79 min Scan# 1867
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.0	27.6	41.4





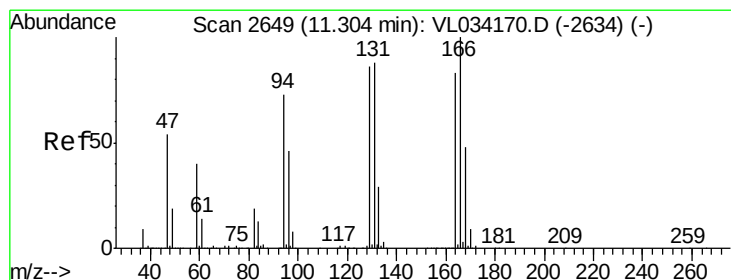
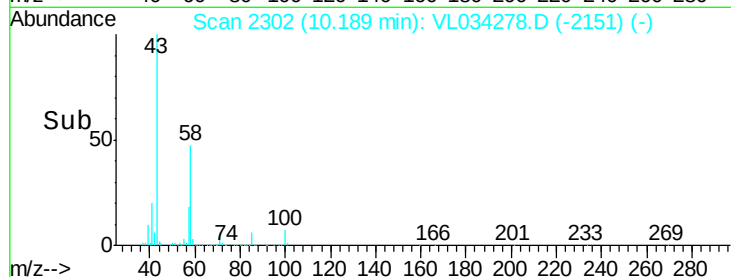
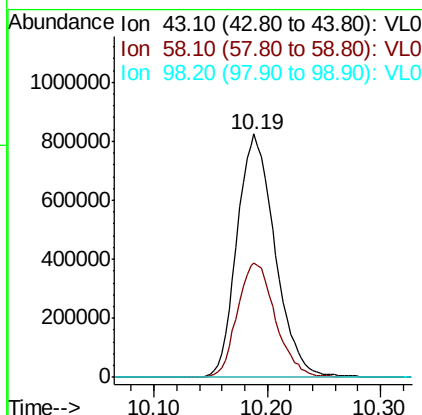
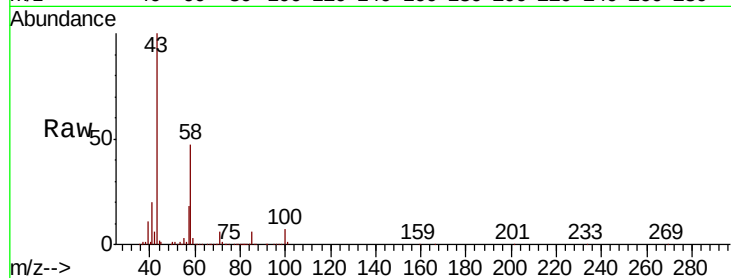
#51
2-Hexanone
Concen: 8.916 ppbv
RT: 10.19 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1924529
Ion Ratio Lower Upper
43 100
58 47.5 36.2 54.4
98 0.1 0.2 0.2#

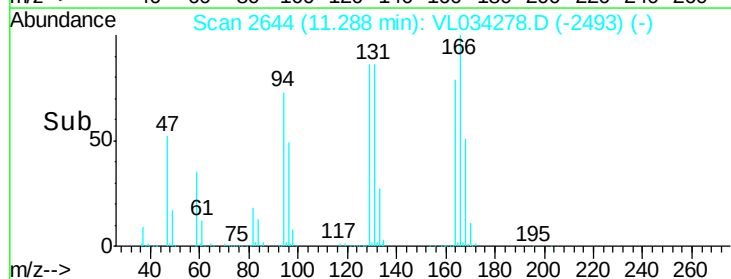
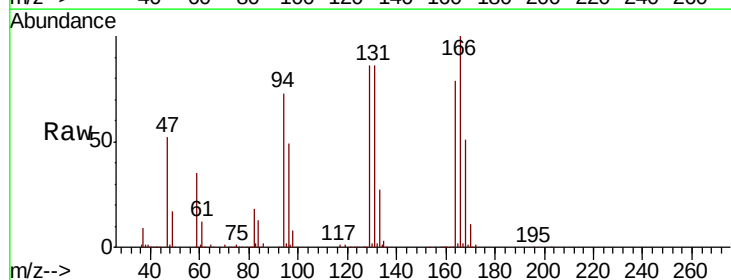
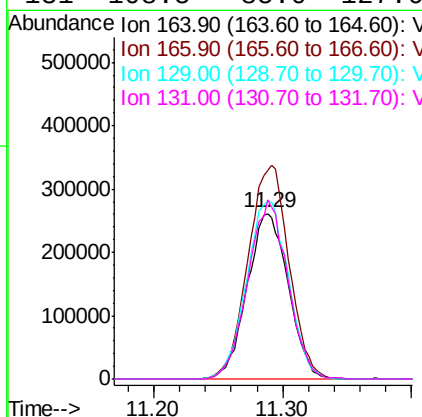
Manual Integrations
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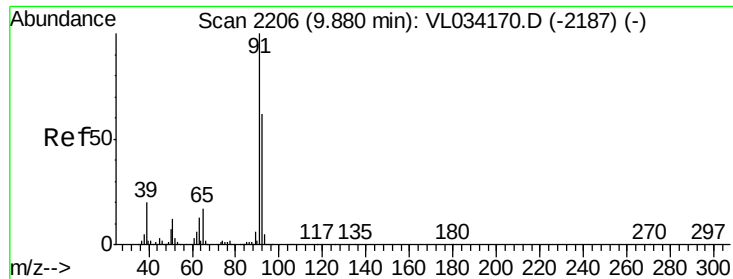
MMDadoda
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#52
Tetrachloroethene
Concen: 9.180 ppbv
RT: 11.29 min Scan# 2644
Delta R.T. -0.02 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion: 164 Resp: 579795
Ion Ratio Lower Upper
164 100
166 125.9 96.7 145.1
129 107.8 82.8 124.2
131 108.5 85.0 127.6





#53

Toluene

Concen: 9.899 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2068131

Ion Ratio Lower Upper

91 100

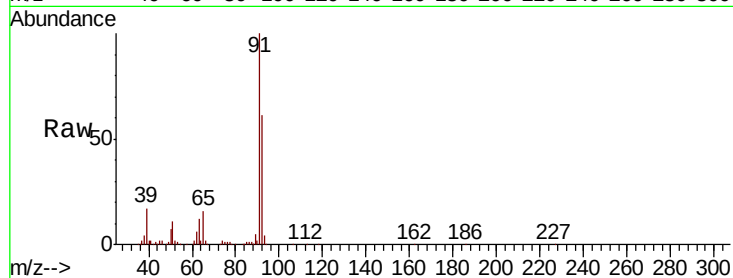
92 60.3 49.0 73.6

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.86

1000000

800000

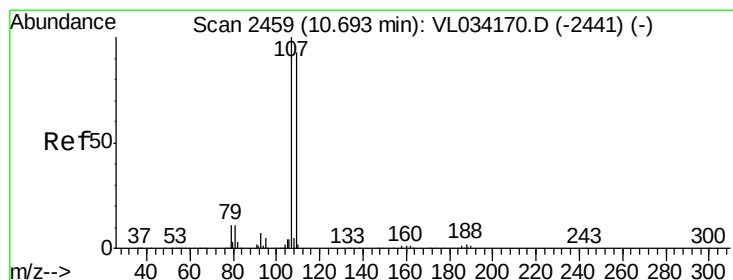
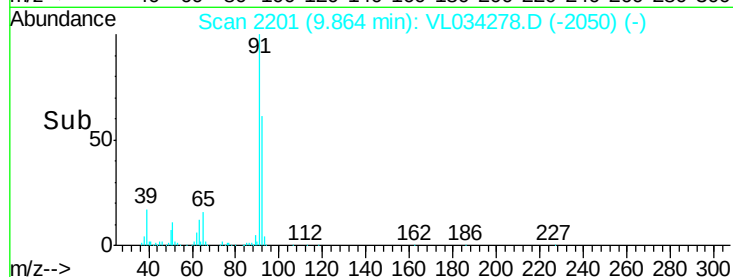
600000

400000

200000

0

Time-->



#54

1,2-Dibromoethane

Concen: 9.585 ppbv

RT: 10.67 min Scan# 2453

Delta R.T. -0.02 min

Lab File: VL034278.D

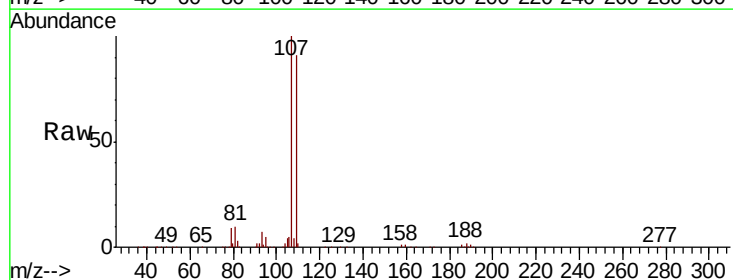
Acq: 14 Oct 2019 9:20

Tgt Ion: 107 Resp: 1099436

Ion Ratio Lower Upper

107 100

109 91.1 74.5 111.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.67

600000

500000

400000

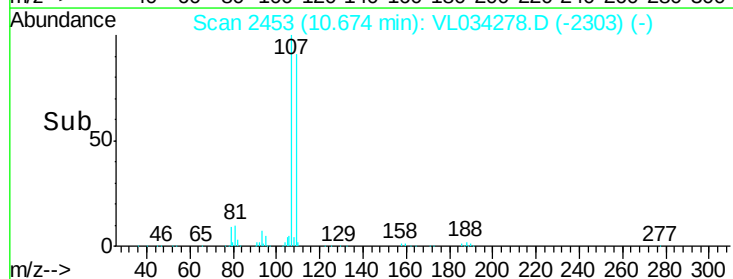
300000

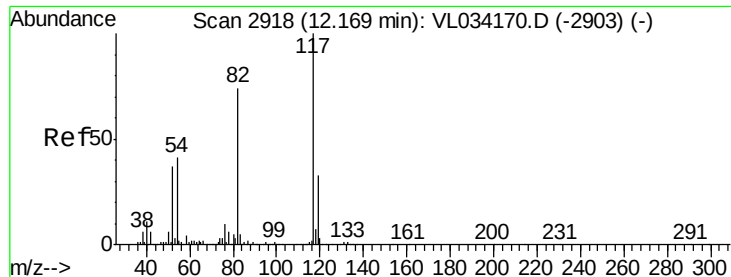
200000

100000

0

Time-->





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.16 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1887944

Ion Ratio Lower Upper

117 100

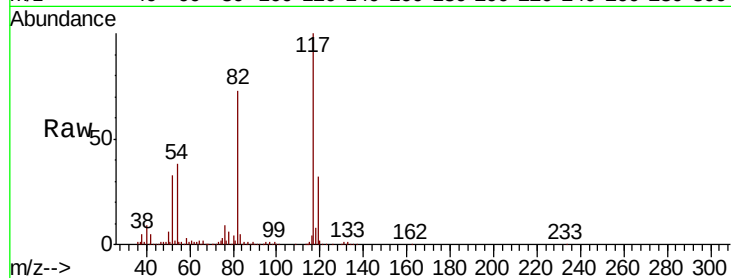
82 71.4 58.2 87.4

119 32.9 23.7 35.5

Manual Integrations
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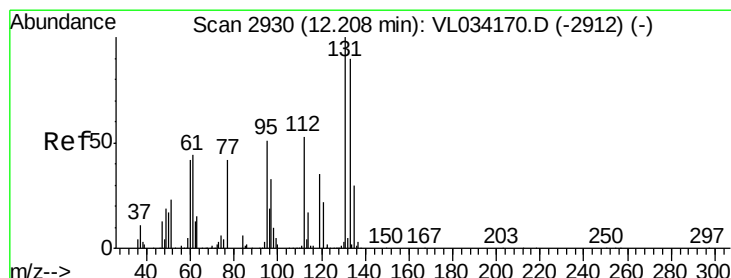
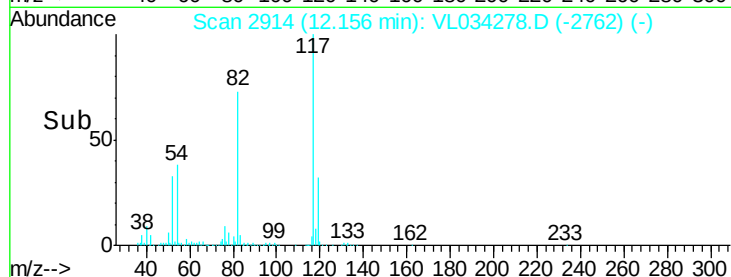
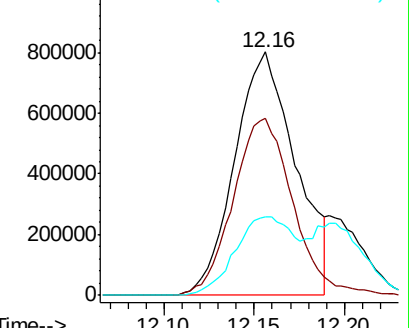
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.246 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

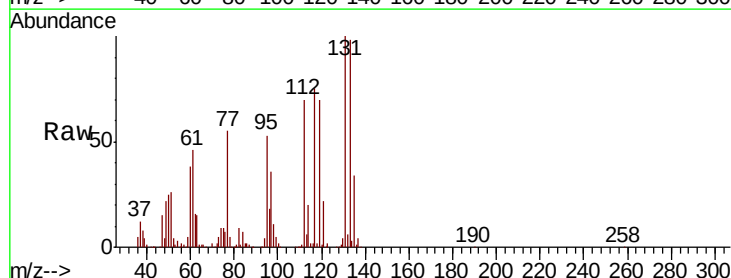
Tgt Ion:131 Resp: 778444

Ion Ratio Lower Upper

131 100

133 94.6 75.1 112.7

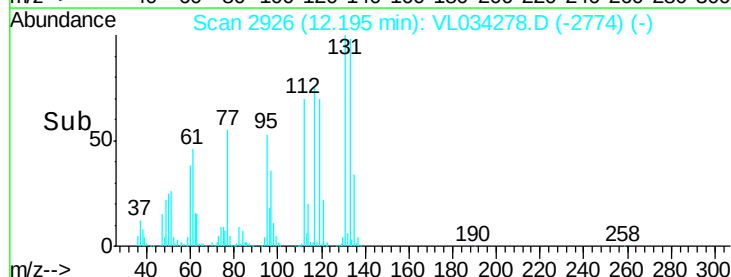
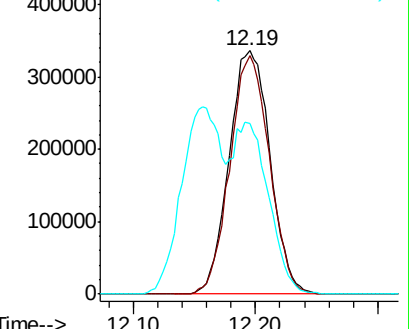
119 59.0 47.4 71.0

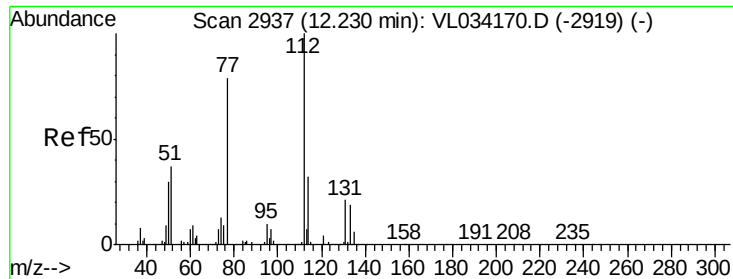


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.816 ppbv

RT: 12.21 min Scan# 2932

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

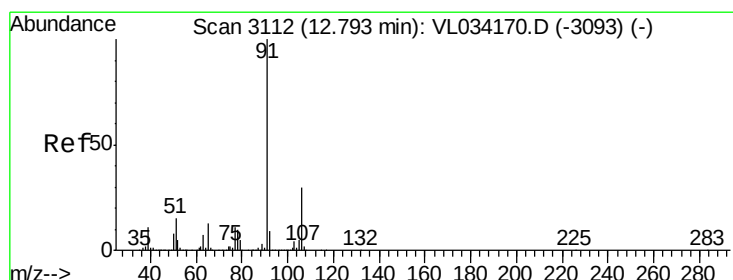
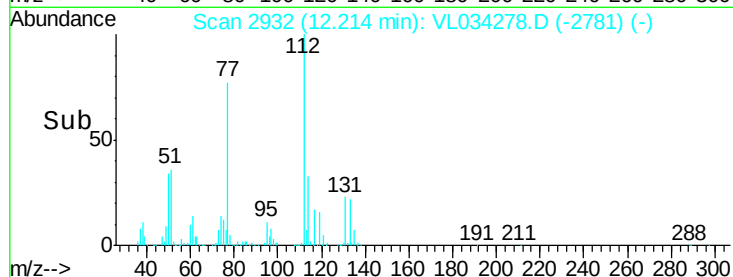
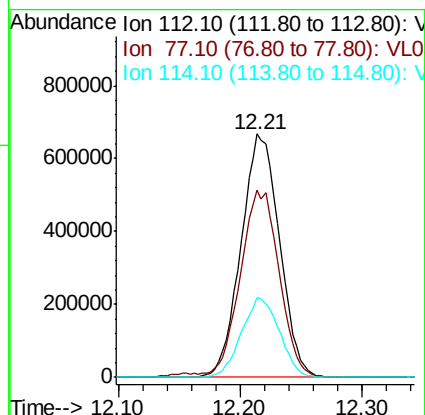
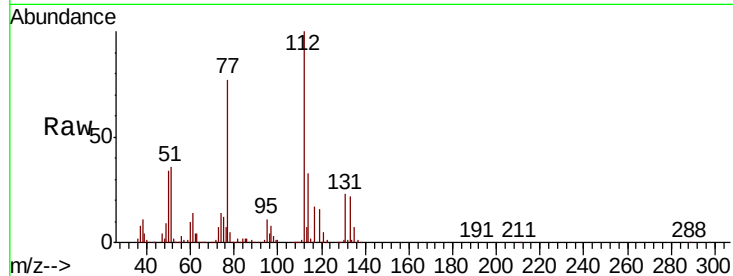
VSTDCCC010

Tot Ion:112 Resp: 1449227

Ion	Ratio	Lower	Upper
112	100		
77	76.9	64.3	96.5
114	32.5	28.9	35.3

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#58

Ethyl Benzene

Concen: 9.257 ppbv

RT: 12.78 min Scan# 3108

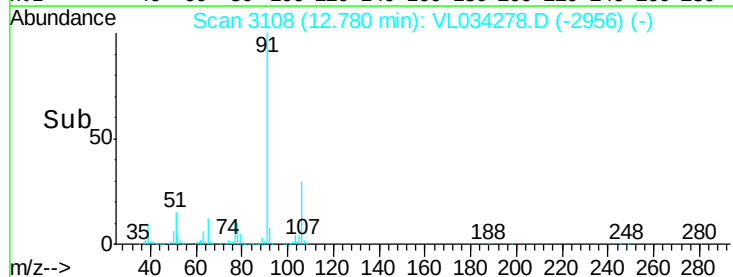
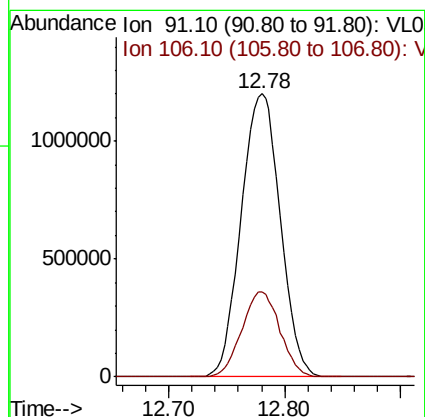
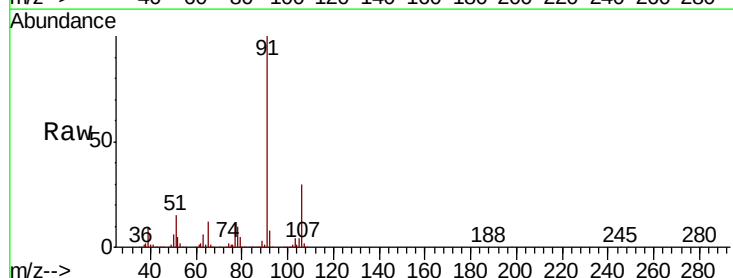
Delta R.T. -0.01 min

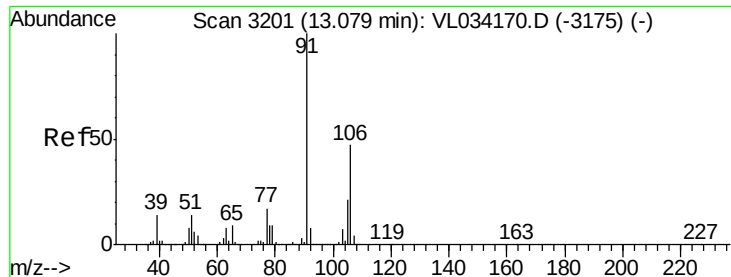
Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Tgt Ion: 91 Resp: 2819989

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.2	36.4





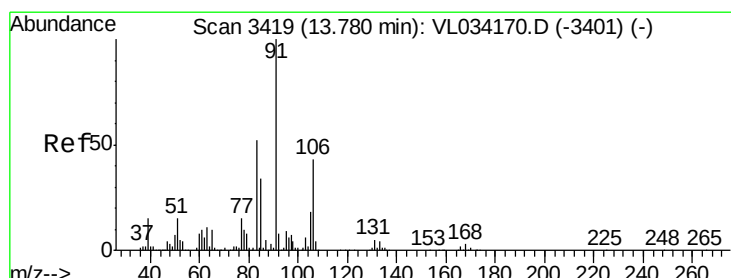
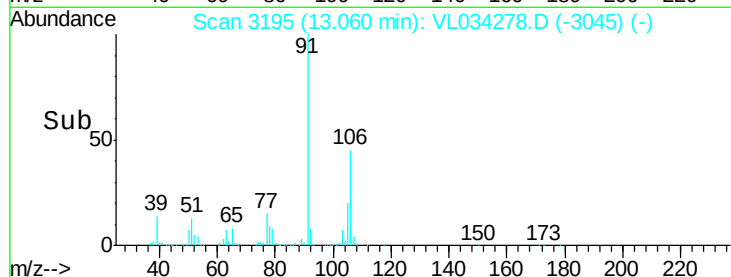
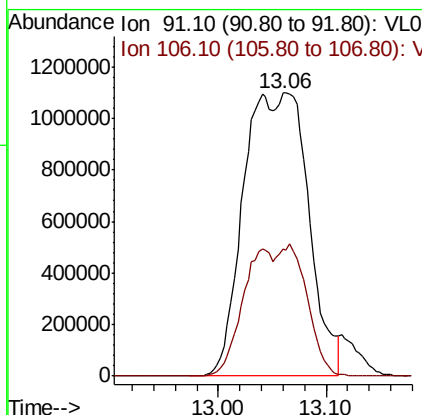
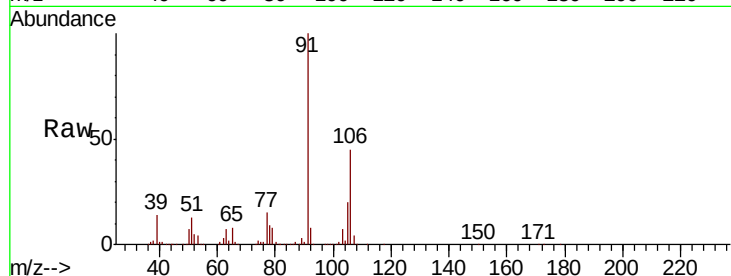
#59
m/p-Xylene
Concen: 18.190 ppbv m
RT: 13.06 min Scan# 3195
Delta R.T. -0.02 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4589685
Ion Ratio Lower Upper
91 100
106 43.1 35.5 53.3

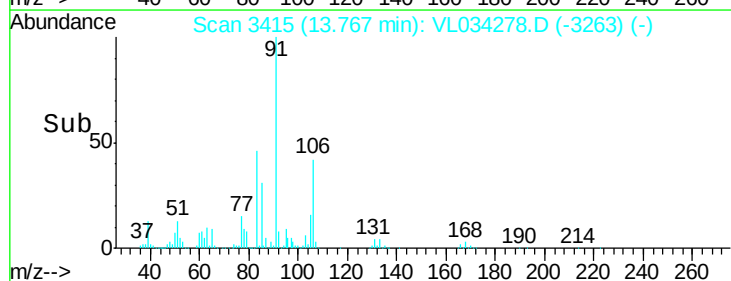
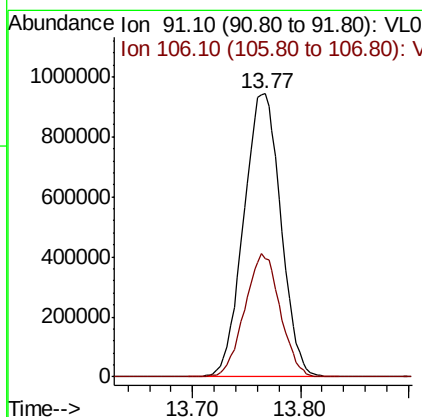
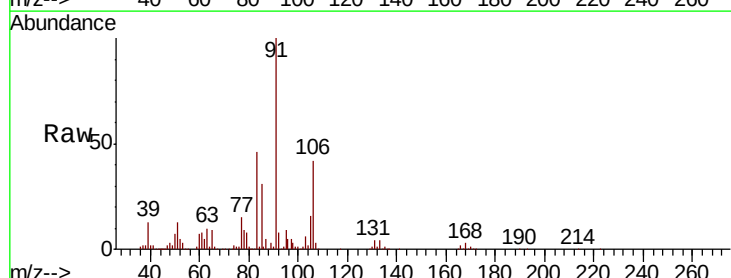
Manual Integrations
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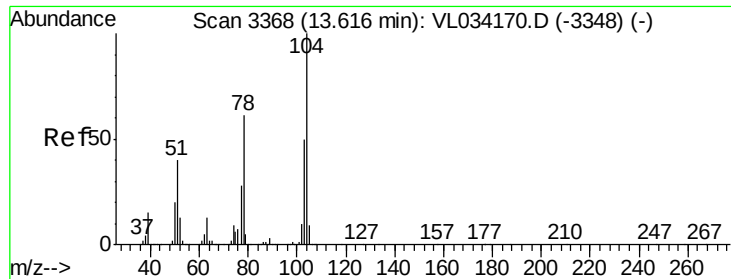
MMDadoda
10/16/2019 12:59:11 AM



#60
o-Xylene
Concen: 8.936 ppbv
RT: 13.77 min Scan# 3415
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion: 91 Resp: 2254567
Ion Ratio Lower Upper
91 100
106 41.7 21.2 63.6





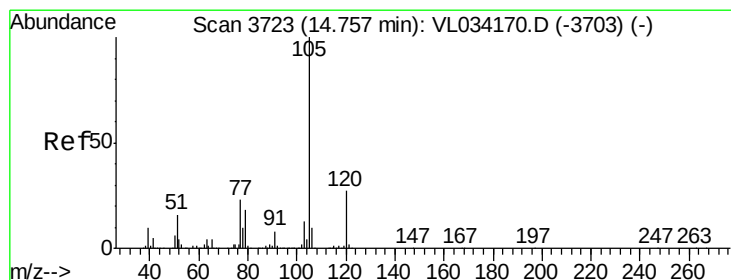
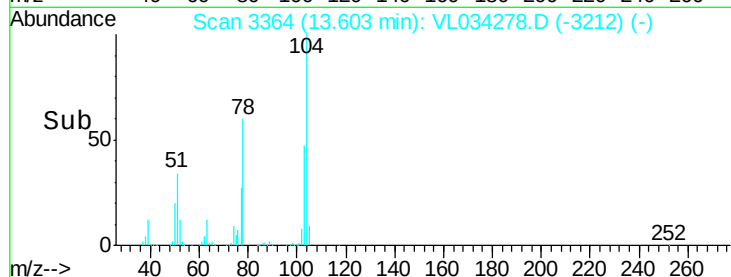
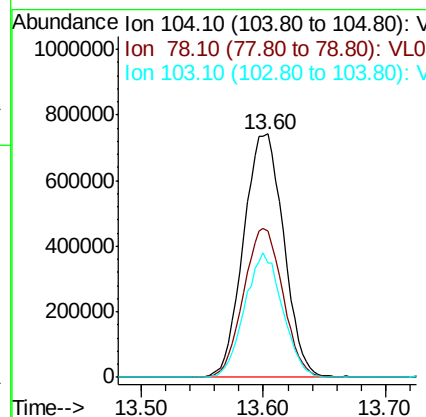
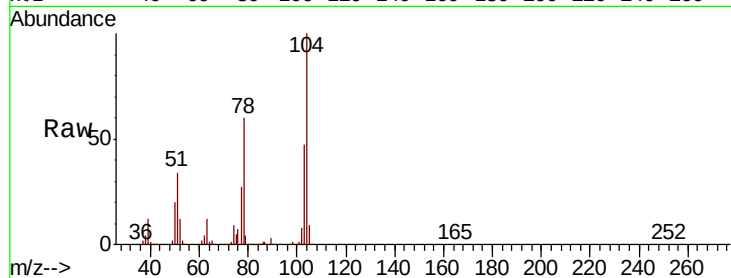
#61
Stvrene
Concen: 9.348 ppbv
RT: 13.60 min Scan# 3364
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.9	49.7	74.5
103	48.2	38.4	57.6

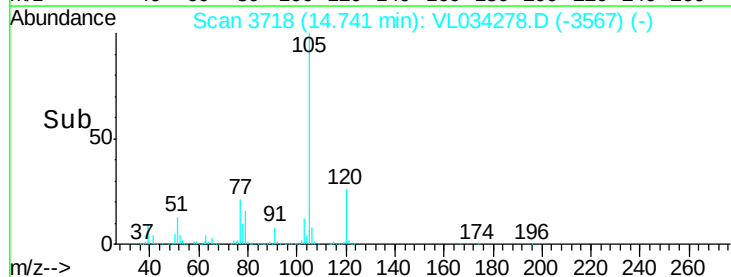
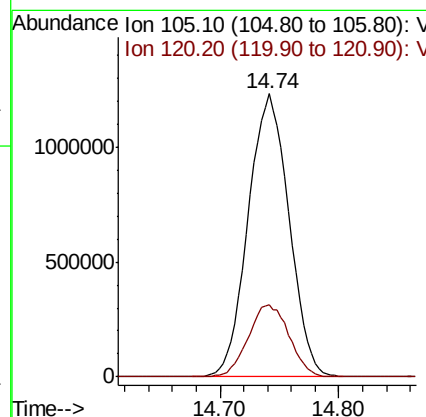
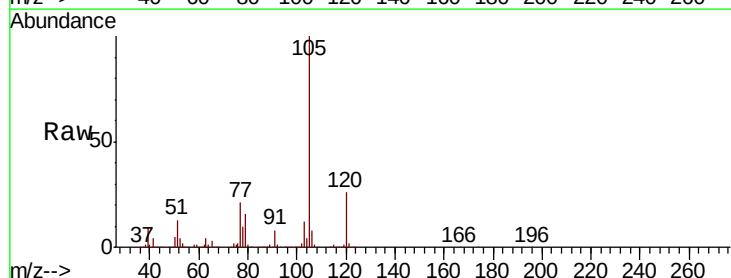
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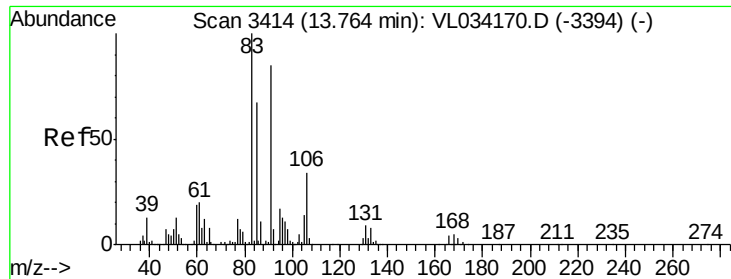
MMDadoda
10/16/2019 12:59:11 AM



#62
Isopropylbenzene
Concen: 8.946 ppbv
RT: 14.74 min Scan# 3718
Delta R.T. -0.02 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 7.850 ppbv

RT: 13.75 min Scan# 3409

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1624080

Ion Ratio Lower Upper

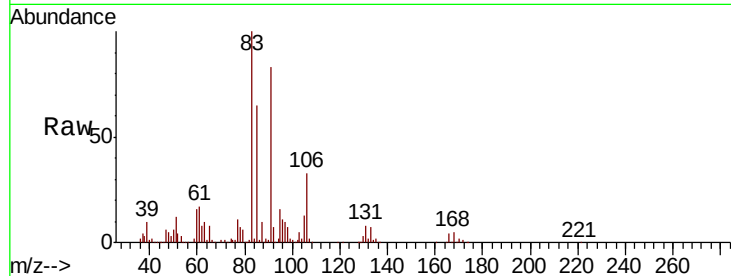
83 100

131 8.6 4.3 12.8

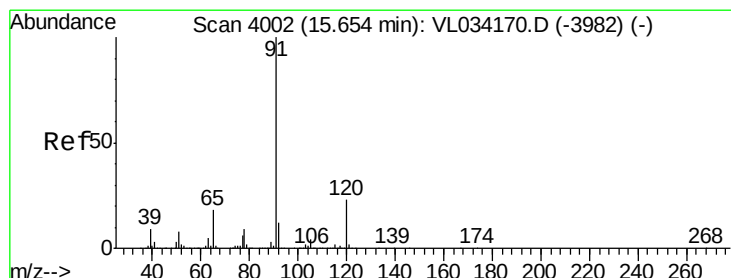
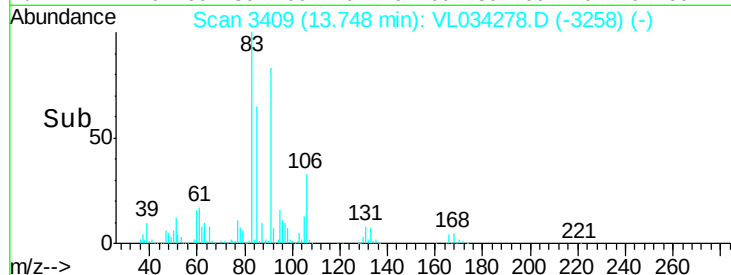
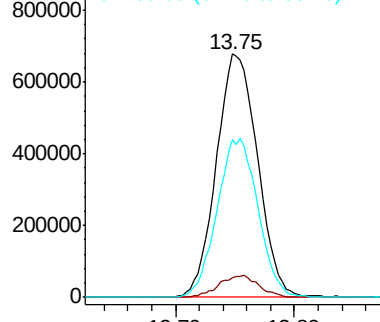
85 65.1 32.8 98.4

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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: 8.887 ppbv

RT: 15.64 min Scan# 3997

Delta R.T. -0.02 min

Lab File: VL034278.D

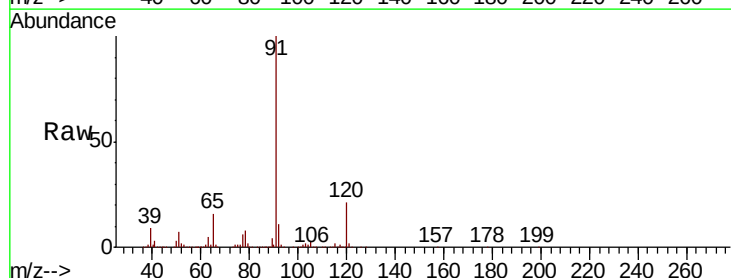
Acq: 14 Oct 2019 9:20

Tgt Ion: 120 Resp: 734311

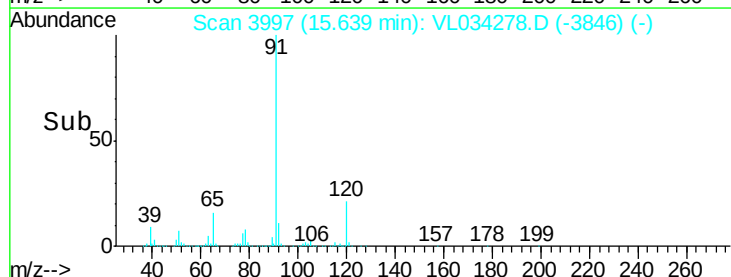
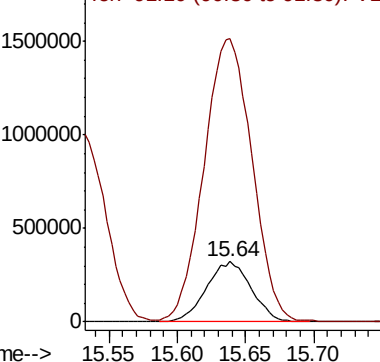
Ion Ratio Lower Upper

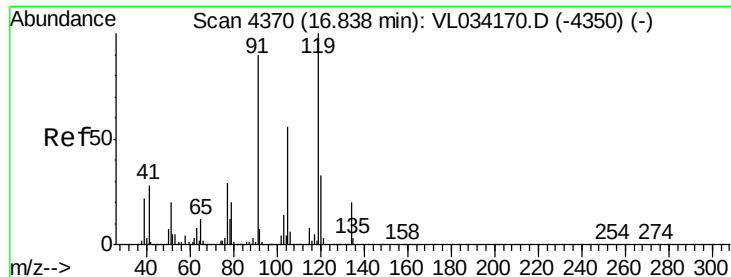
120 100

91 504.2 378.2 567.2



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





#65

tert-Butylbenzene

Concen: 8.738 ppbv

RT: 16.82 min Scan# 4366

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 119 Resp: 2493551

Ion Ratio Lower Upper

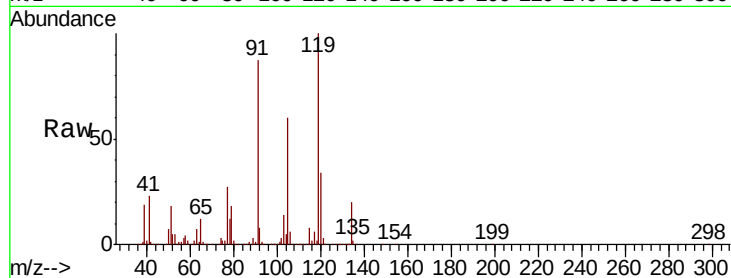
119 100

91 91.6 74.9 112.3

134 19.3 15.8 23.6

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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

1200000

1000000

800000

600000

400000

200000

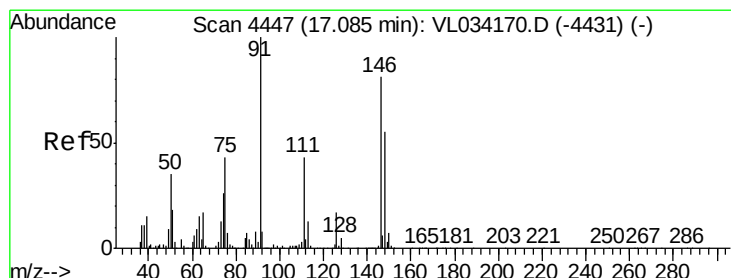
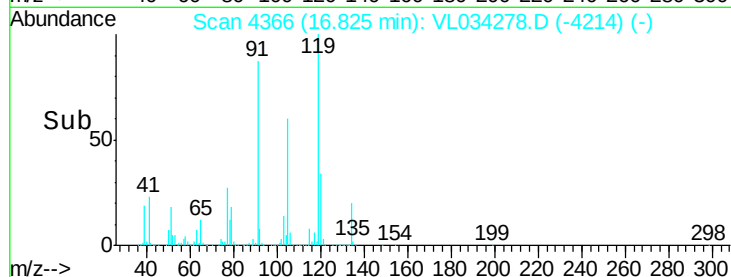
0

16.82

16.80

16.90

Time-->



#66

Benzyl Chloride

Concen: 12.222 ppbv

RT: 17.07 min Scan# 4442

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

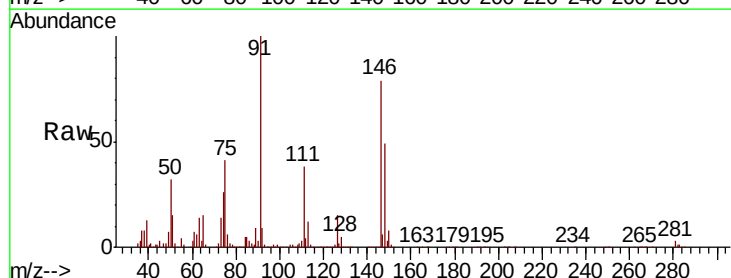
Tgt Ion: 91 Resp: 1233986

Ion Ratio Lower Upper

91 100

126 15.6 12.6 19.0

128 4.9 4.0 6.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

800000

600000

400000

200000

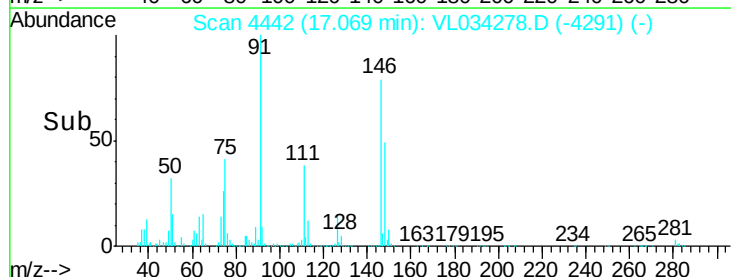
0

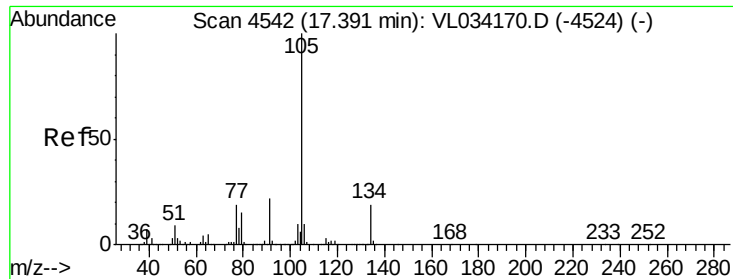
17.07

17.00

17.10

Time-->





#67

sec-Butylbenzene

Concen: 8.811 ppbv

RT: 17.37 min Scan# 4537

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 3595372

Ion Ratio Lower Upper

105 100

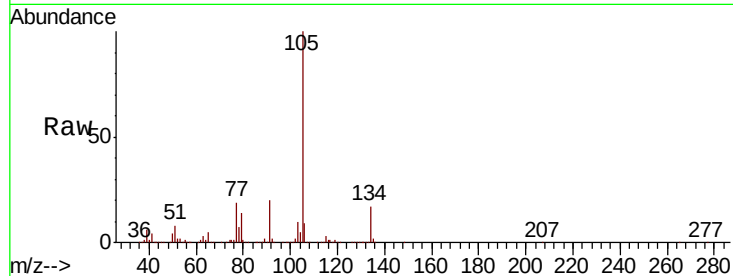
134 17.8 14.6 22.0

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.37

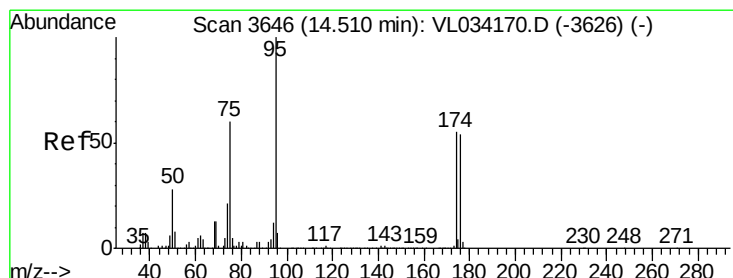
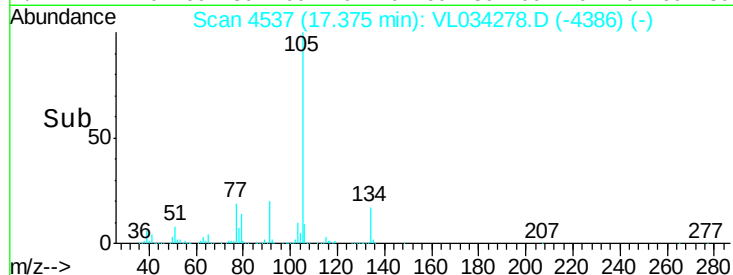
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.234 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

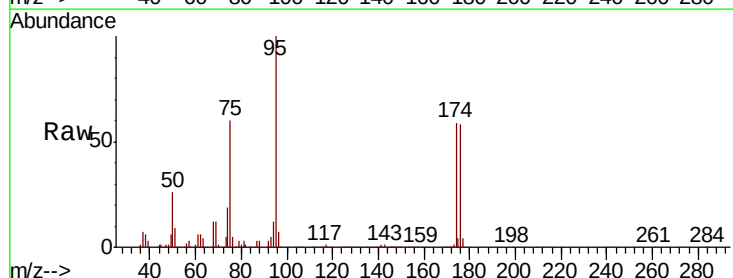
Tgt Ion: 95 Resp: 1514859

Ion Ratio Lower Upper

95 100

174 58.7 45.1 67.7

175 4.3 3.3 4.9



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

14.49

800000

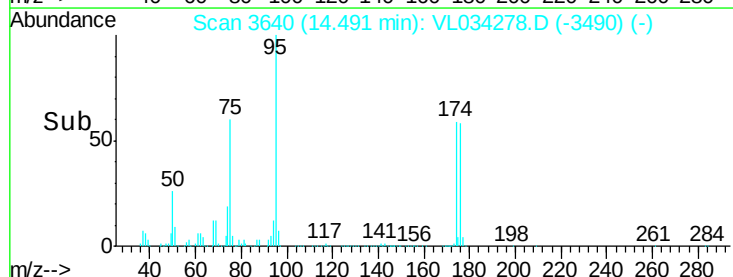
600000

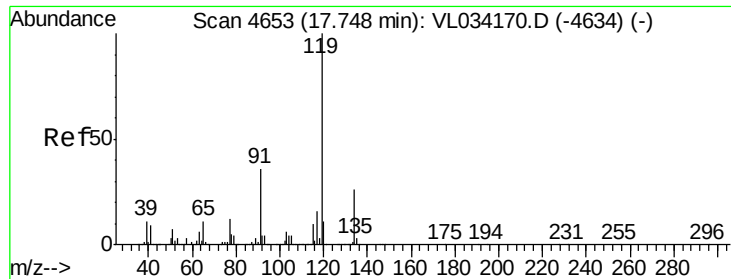
400000

200000

0

Time-->





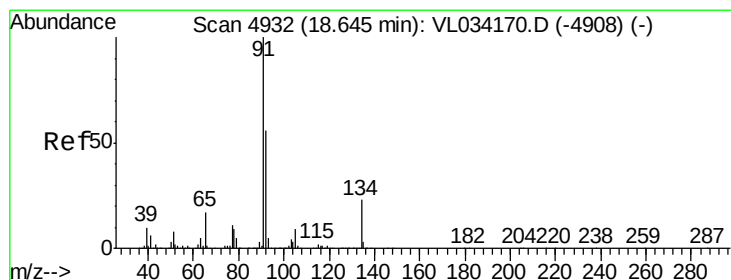
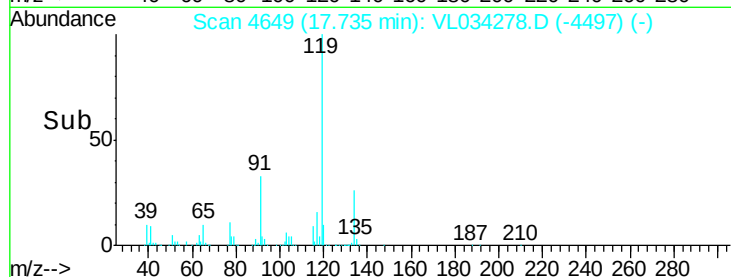
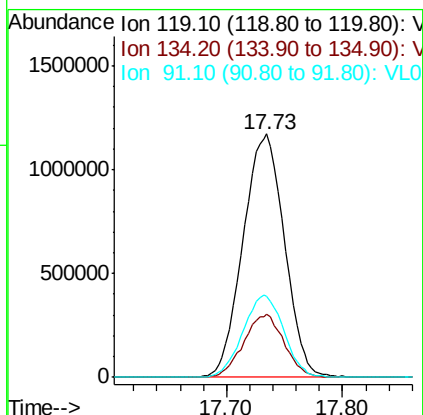
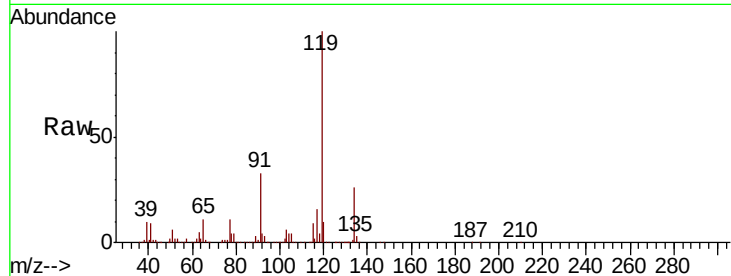
#69
 p-Isopropyltoluene
 Concen: 8.801 ppbv
 RT: 17.73 min Scan# 4649
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	30.8
91	33.5	27.6	41.4

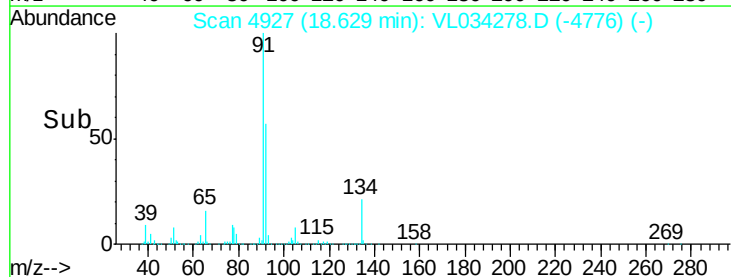
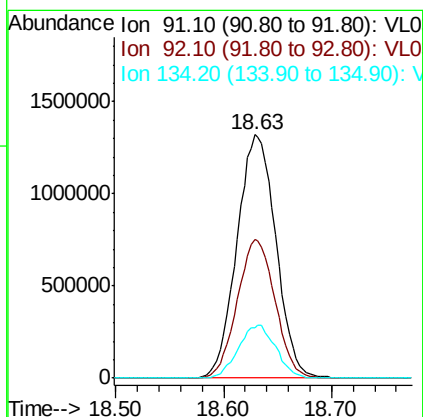
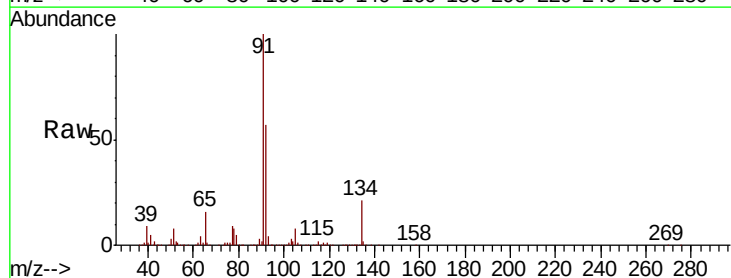
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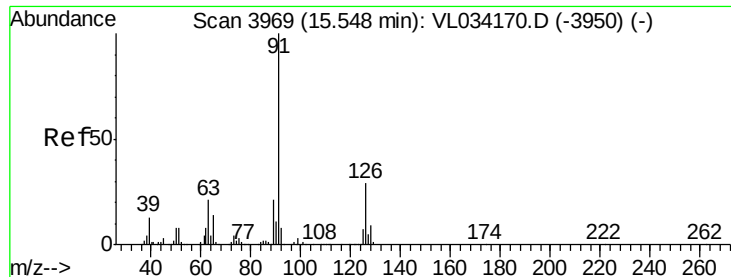
MMDadoda
 10/16/2019 12:59:11 AM



#70
 n-Butylbenzene
 Concen: 8.596 ppbv
 RT: 18.63 min Scan# 4927
 Delta R.T. -0.02 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.8	67.2
134	20.9	17.3	25.9





#71

2-Chlorotoluene

Concen: 8.836 ppbv

RT: 15.53 min Scan# 3964

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2357867

Ion Ratio Lower Upper

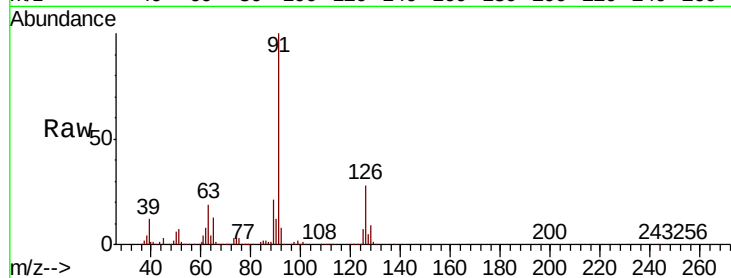
91 100

126 28.4 11.2 45.0

Manual Integrations
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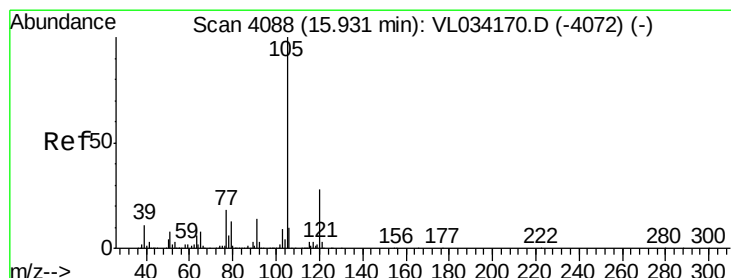
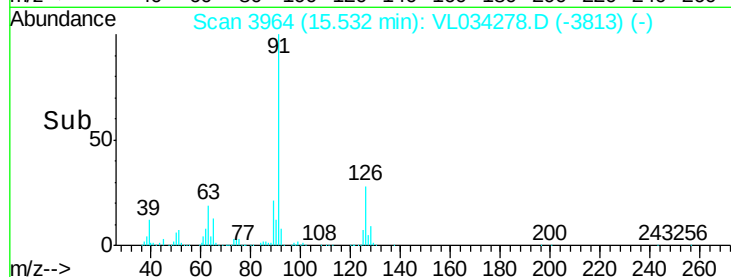
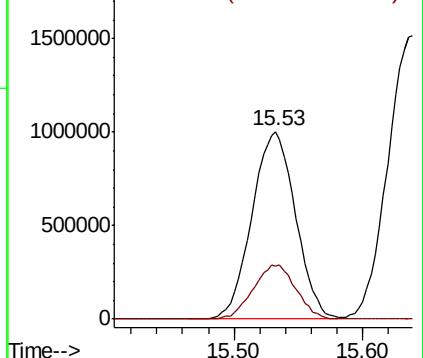
MMDadoda

10/16/2019 12:59:11 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.066 ppbv

RT: 15.92 min Scan# 4083

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Tgt Ion: 105 Resp: 2584275

Ion Ratio Lower Upper

105 100

120 28.6 23.3 34.9

91 13.8 11.4 17.2

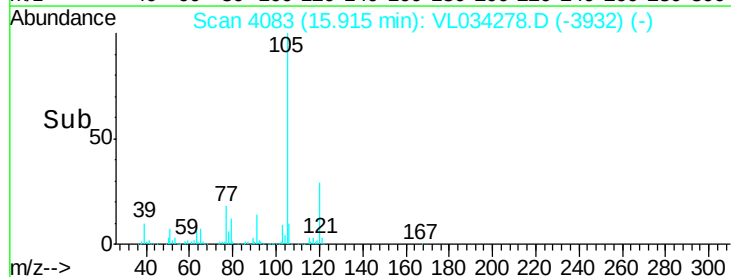
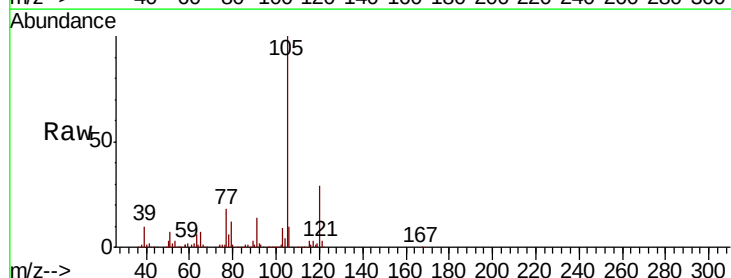
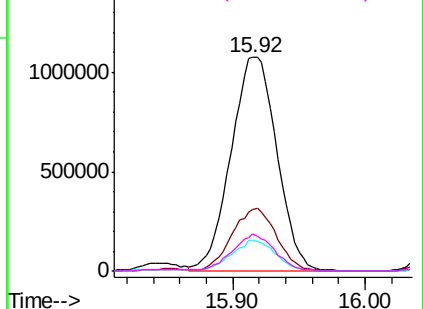
77 16.0 13.3 19.9

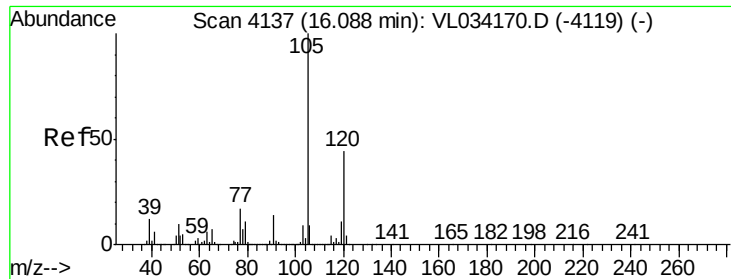
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





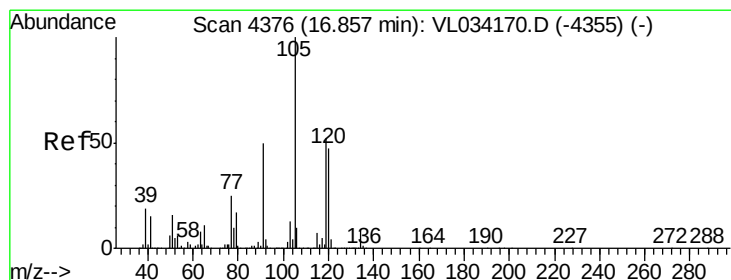
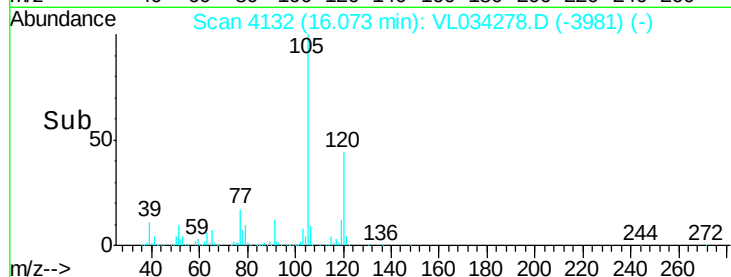
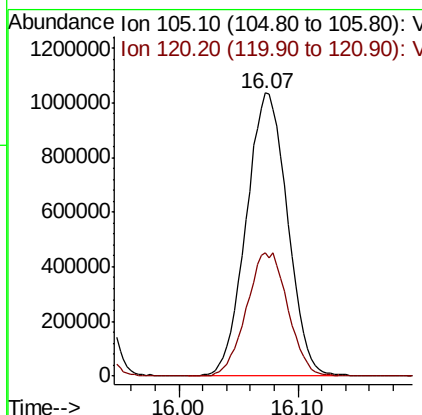
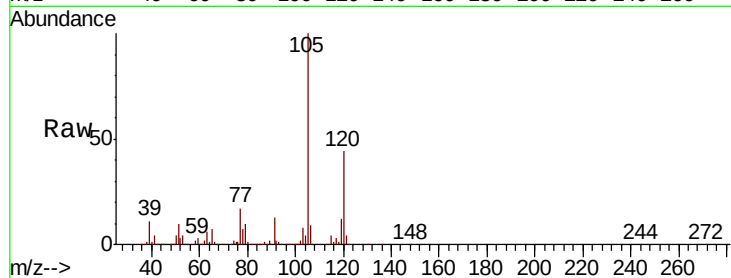
#73
 1,3,5-Trimethylbenzene
 Concen: 8.996 ppbv
 RT: 16.07 min Scan# 4132
 Delta R.T. -0.02 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 2477233
 Ion Ratio Lower Upper
 105 100
 120 43.8 35.6 53.4

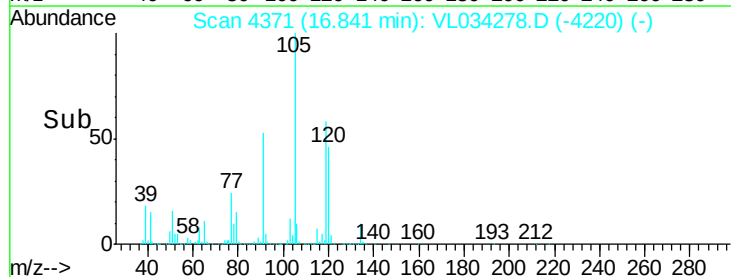
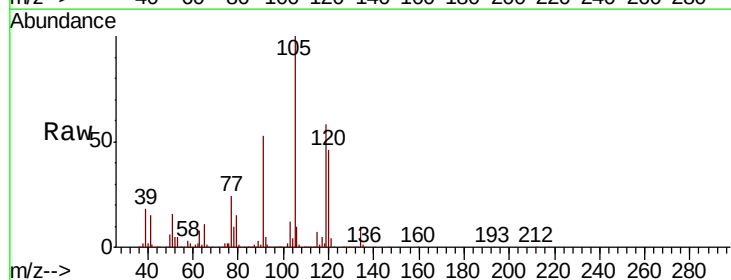
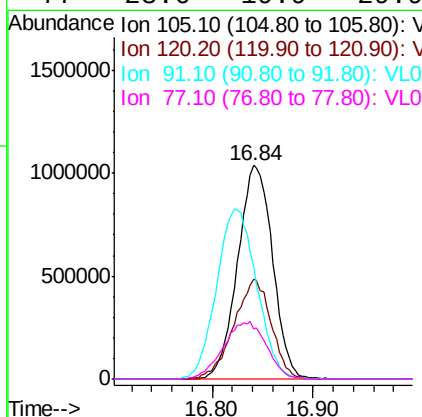
Manual Integrations
 APPROVED

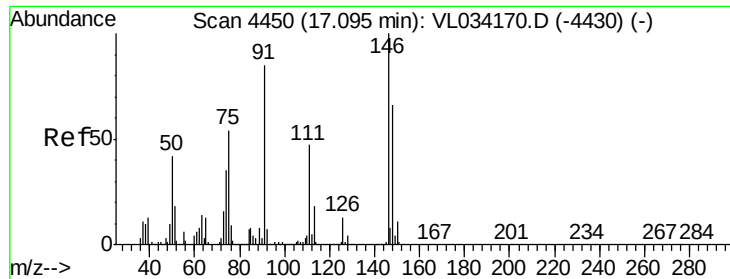
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 10/16/2019 12:59:11 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.511 ppbv
 RT: 16.84 min Scan# 4371
 Delta R.T. -0.02 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion:105 Resp: 2488581
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.5 56.3
 91 52.6 41.1 61.7
 77 23.6 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 8.733 ppbv

RT: 17.08 min Scan# 4446

Delta R.T. -0.01 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1369973

Ion Ratio Lower Upper

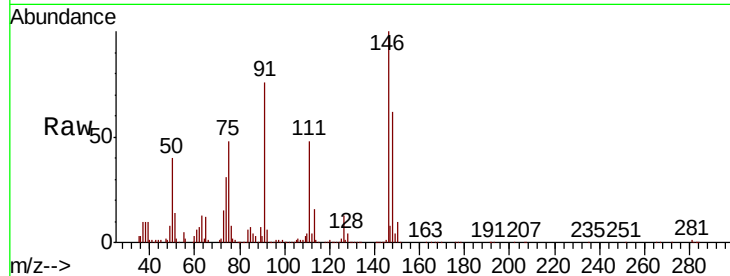
146 100

111 48.7 25.9 77.8

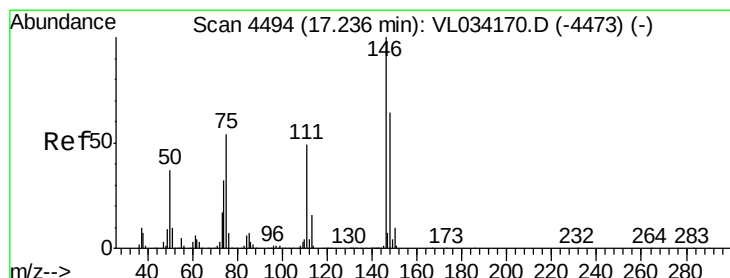
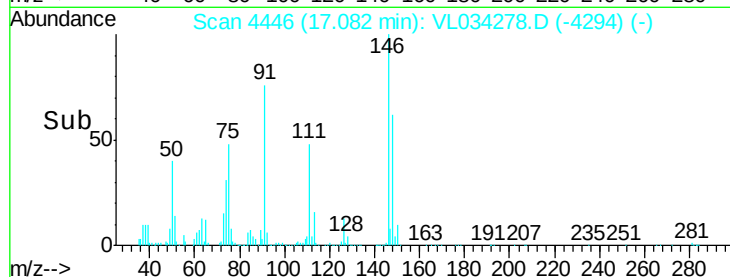
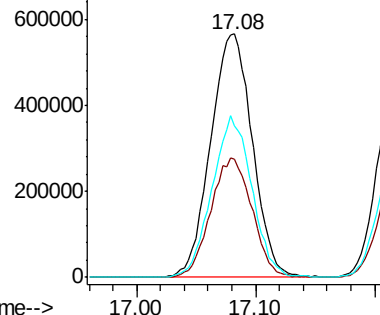
148 63.5 32.6 97.7

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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



#76

1,4-Dichlorobenzene

Concen: 8.528 ppbv

RT: 17.22 min Scan# 4489

Delta R.T. -0.02 min

Lab File: VL034278.D

Acq: 14 Oct 2019 9:20

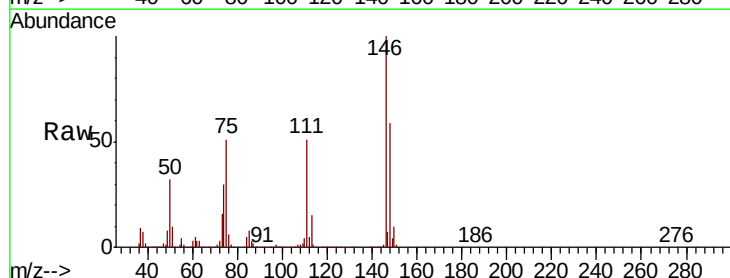
Tgt Ion:146 Resp: 1370163

Ion Ratio Lower Upper

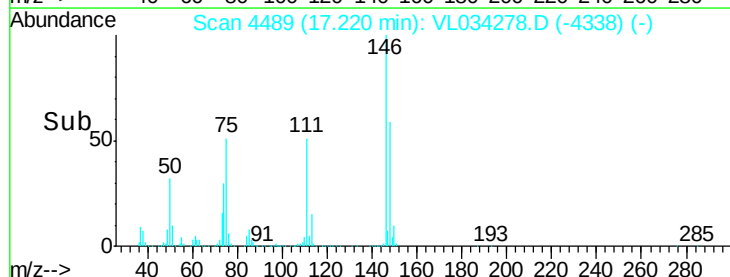
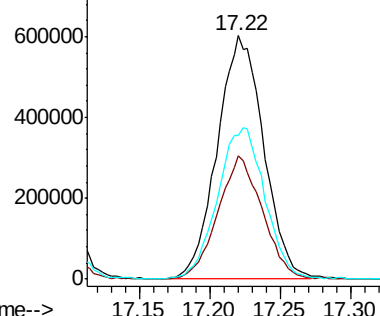
146 100

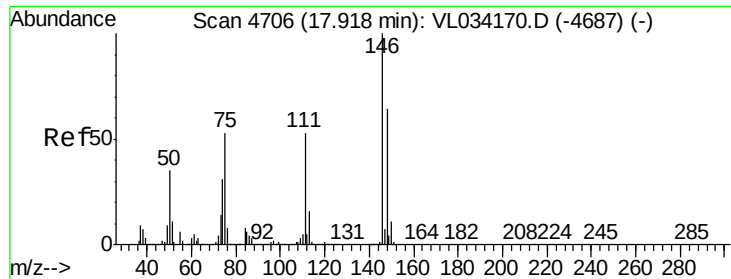
111 49.3 24.6 74.0

148 64.5 32.4 97.0



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





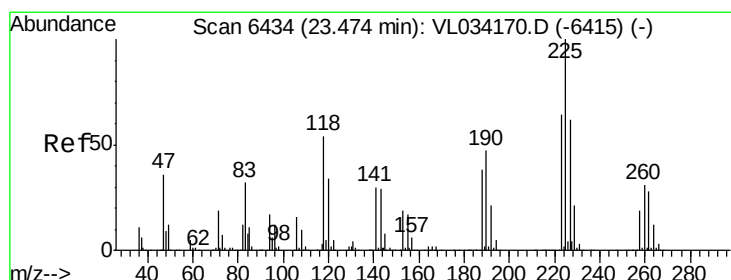
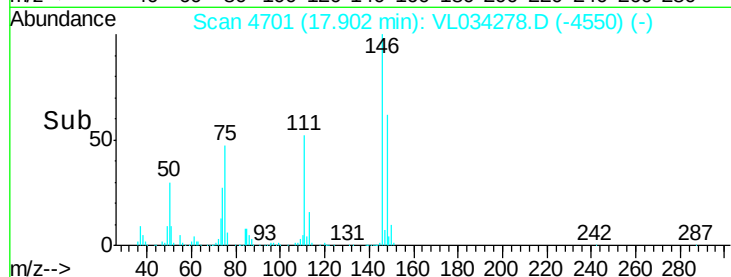
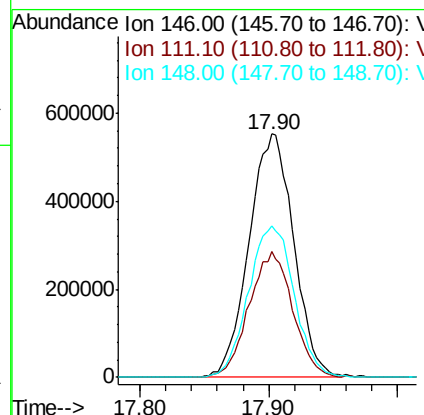
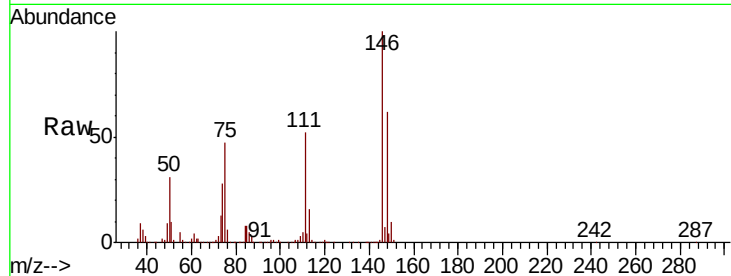
#77
 1,2-Dichlorobenzene
 Concen: 8.396 ppbv
 RT: 17.90 min Scan# 4701
 Delta R.T. -0.02 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1333068
 Ion Ratio Lower Upper
 146 100
 111 50.7 26.1 78.3
 148 63.8 31.9 95.9

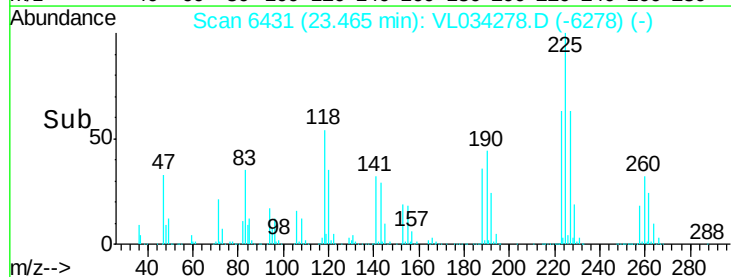
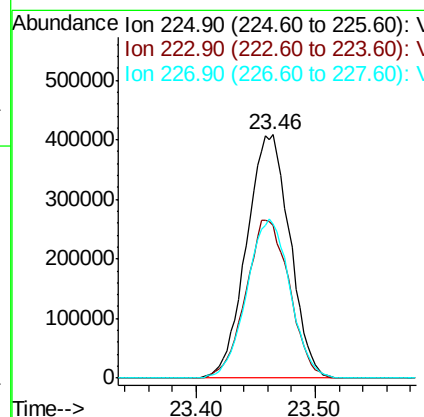
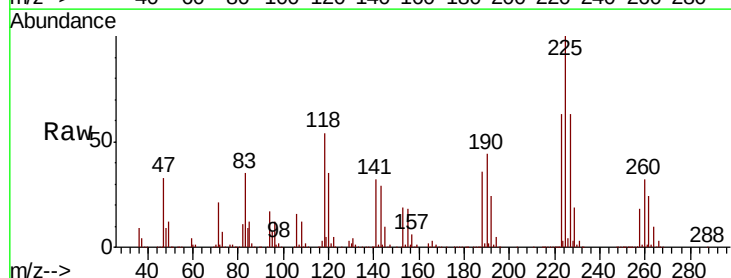
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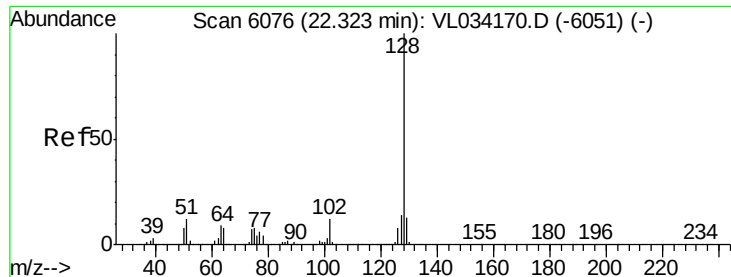
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.798 ppbv
 RT: 23.46 min Scan# 6431
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Tgt Ion:225 Resp: 1030440
 Ion Ratio Lower Upper
 225 100
 223 65.2 51.7 77.5
 227 65.1 52.1 78.1





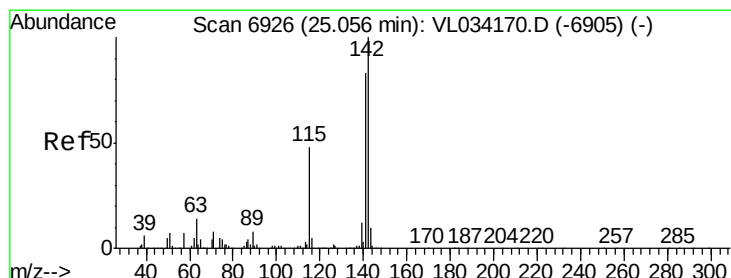
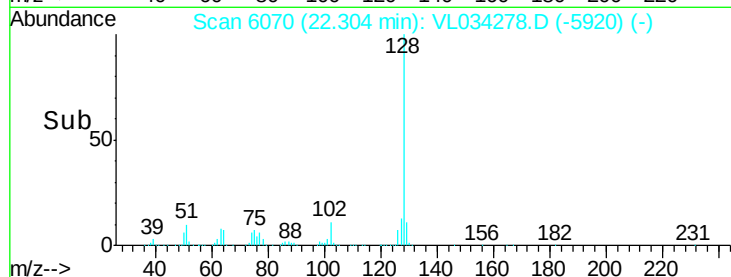
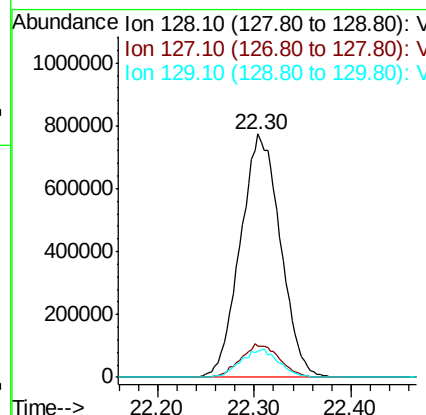
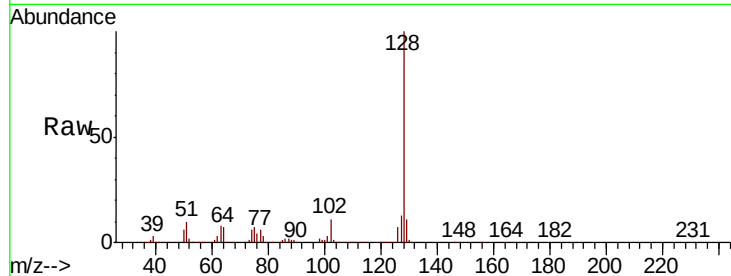
#79
Naphthalene
Concen: 8.616 ppbv
RT: 22.30 min Scan# 6070
Delta R.T. -0.02 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	11.1	16.7
129	10.8	10.2	15.4

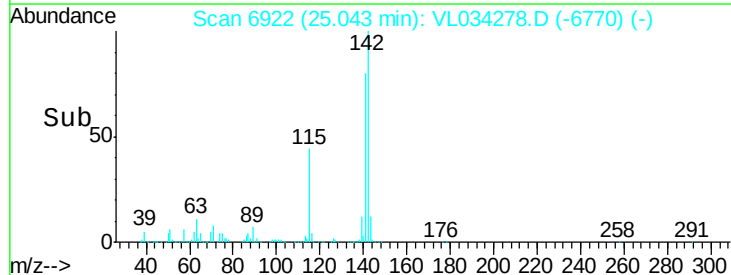
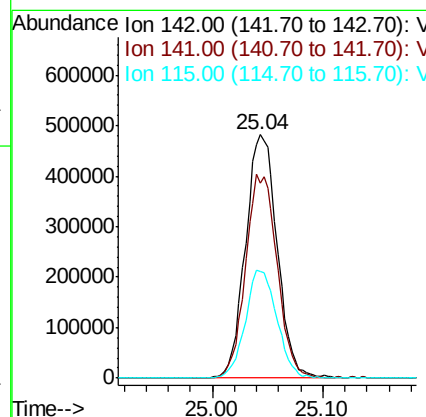
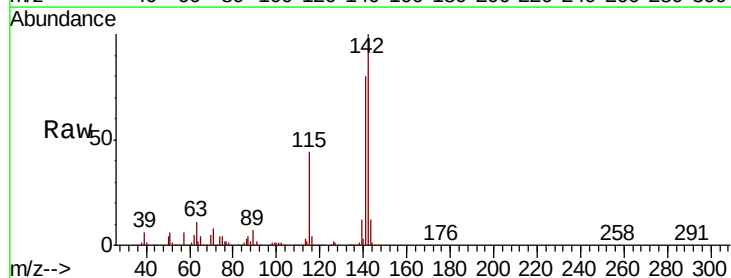
Manual Integrations
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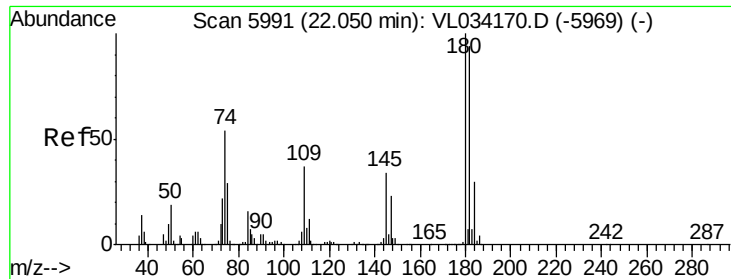
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#80
Naphthalene, 2-methyl-
Concen: 8.026 ppbv
RT: 25.04 min Scan# 6922
Delta R.T. -0.01 min
Lab File: VL034278.D
Acq: 14 Oct 2019 9:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	67.6	101.4
115	44.2	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.703 ppbv
 RT: 22.04 min Scan# 5987
 Delta R.T. -0.01 min
 Lab File: VL034278.D
 Acq: 14 Oct 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.4	116.2
184	30.2	25.0	37.4

Manual Integrations
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