

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100219\
 Data File : VL034221.D
 Acq On : 2 Oct 2019 21:46
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/7/2019 12:30:43 PM

Quant Time: Oct 04 02:40:21 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	5.70	49	857022	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1638935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1831798m	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.49	95	1462421	9.19	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1569391	12.397	ppbv	98
3) Chlorodifluoromethane	2.97	51	1018888	10.140	ppbv	99
4) Chloromethane	3.12	50	620804	10.513	ppbv	95
5) Vinyl Chloride	3.24	62	566885	10.505	ppbv	95
6) Bromomethane	3.46	94	288170	11.445	ppbv	98
7) Chloroethane	3.55	64	207114	10.980	ppbv	97
8) Dichlorotetrafluoroethane	3.17	85	1207562	10.808	ppbv	100
9) Propene	2.99	41	548665	11.067	ppbv	98
10) Heptane	8.17	43	1407864	10.896	ppbv	99
11) Trichlorofluoromethane	3.95	101	1265894	10.986	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	870348	11.541	ppbv	99
13) Ethanol	3.60	45	100235	8.349	ppbv	97
14) Bromoethene	3.73	108	368935	11.966	ppbv	98
15) Acetone	3.84	43	1050610	9.147	ppbv	100
16) 1,3-Butadiene	3.31	39	554959	11.071	ppbv	100
17) tert-Butyl alcohol	4.30	59	776512	10.669	ppbv	99
18) 1,1-Dichloroethene	4.29	96	395261	12.017	ppbv	92
19) Isopropyl Alcohol	3.97	45	672001	9.514	ppbv	100
20) Methylene Chloride	4.35	84	355480	10.734	ppbv	95
21) Allyl Chloride	4.42	41	749763	11.556	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	403376	12.258	ppbv	98
23) Vinyl Acetate	5.09	43	1826215	10.789	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1204356	10.567	ppbv	99
25) Ethyl Acetate	5.70	43	2284971	10.520	ppbv	99
26) Hexane	5.71	57	973951	10.779	ppbv	99
27) Carbon Disulfide	4.56	76	1040471	12.486	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1548168	11.537	ppbv	98
29) Chloroform	5.78	83	1407745	10.903	ppbv	97
30) Cyclohexane	7.18	84	756656	11.599	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1027365	11.154	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1328573	10.670	ppbv	98
34) 2-Butanone	5.27	43	1569742	9.380	ppbv	98
35) Carbon Tetrachloride	7.06	117	1278553	9.390	ppbv	100
36) Benzene	6.93	78	1849991	10.220	ppbv	98
37) 1,2-Dichloroethane	6.34	62	1181079	9.174	ppbv	98
38) Trichloroethene	7.89	130	614545	9.502	ppbv	96
39) 1,2-Dichloropropane	7.66	63	791417	9.731	ppbv	94
40) 1,4-Dioxane	7.88	88	262028	9.956	ppbv #	85
41) Tetrahydrofuran	6.08	42	953859	10.120	ppbv	98
42) Bromodichloromethane	7.84	83	1555863	10.070	ppbv	98
43) Methyl Methacrylate	8.06	69	789571	10.559	ppbv	96

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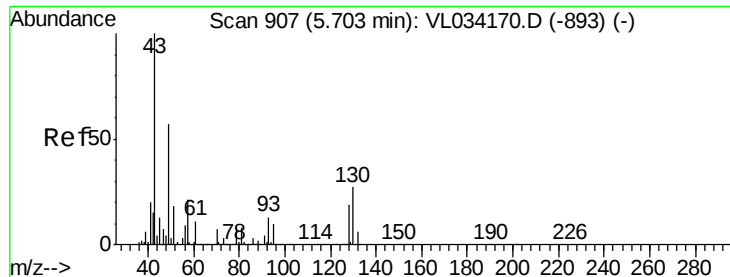
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3347136	9.605	ppbv	98
45) t-1,3-Dichloropropene	9.34	75	1017586	11.509	ppbv	94
46) cis-1,3-Dichloropropene	8.76	75	1158552	10.893	ppbv	92
47) 1,1,2-Trichloroethane	9.54	97	729931	9.995	ppbv	98
48) Dibromochloromethane	10.37	129	1163254	10.050	ppbv	99
49) Bromoform	13.12	173	999355	10.669	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2323981	9.542	ppbv	99
51) 2-Hexanone	10.19	43	1943065	9.507	ppbv #	97
52) Tetrachloroethene	11.29	164	575763	9.628	ppbv	96
53) Toluene	9.87	91	2062587	10.426	ppbv	99
54) 1,2-Dibromoethane	10.68	107	1077146	9.918	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	769627	9.421	ppbv	99
57) Chlorobenzene	12.22	112	1422817	8.921	ppbv	98
58) Ethyl Benzene	12.78	91	2785558	9.424	ppbv	99
59) m/p-Xylene	13.07	91	4485661m	18.323	ppbv	
60) o-Xylene	13.77	91	2224425	9.087	ppbv	99
61) Styrene	13.60	104	1677226	9.565	ppbv	98
62) Isopropylbenzene	14.74	105	2886817	9.110	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1619528	8.068	ppbv	99
64) n-propylbenzene	15.64	120	729803	9.103	ppbv	89
65) tert-Butylbenzene	16.83	119	2445026	8.830	ppbv	98
66) Benzyl Chloride	17.08	91	1142871	11.667	ppbv	100
67) sec-Butylbenzene	17.37	105	3522764	8.897	ppbv	99
69) p-Isopropyltoluene	17.73	119	2875401	8.969	ppbv	98
70) n-Butylbenzene	18.64	91	3263420	8.742	ppbv	98
71) 2-Chlorotoluene	15.53	91	2337632	9.029	ppbv	99
72) 4-Ethyltoluene	15.92	105	2547843	9.212	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2426310	9.081	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	2443159	8.612	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	1313040	8.626	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1341619	8.607	ppbv	100
77) 1,2-Dichlorobenzene	17.91	146	1310321	8.505	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1036163m	10.154	ppbv	
79) Naphthalene	22.31	128	2209720	8.847	ppbv	97
80) Naphthalene, 2-methyl-	25.05	142	915828	7.885	ppbv	98
81) 1,2,4-Trichlorobenzene	22.04	180	1220952	8.825	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

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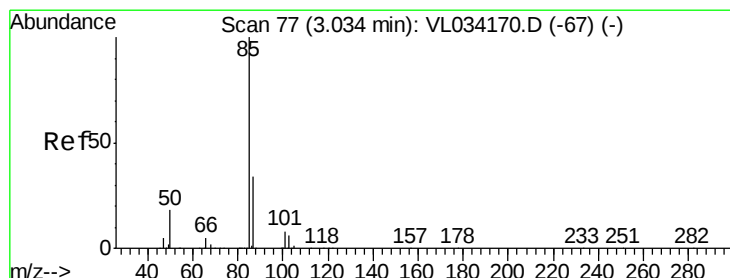
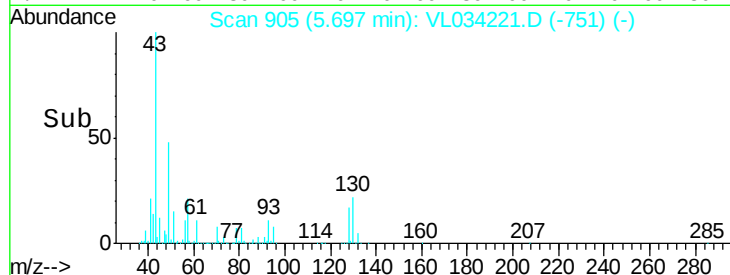
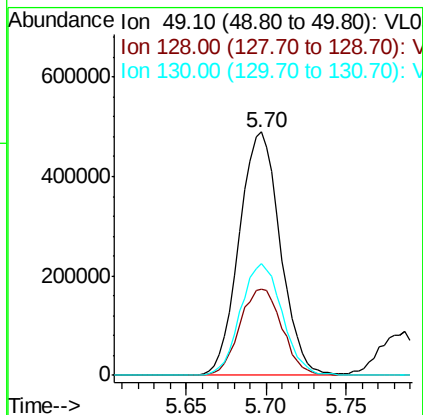
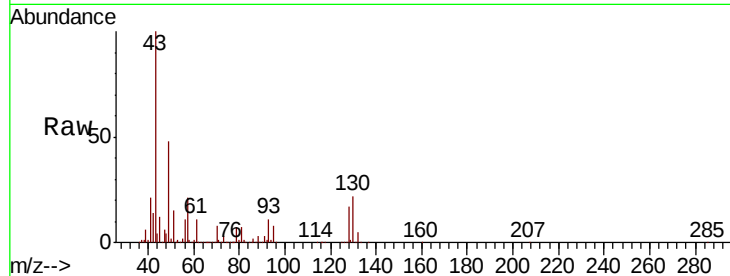
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	857022
Ion	Ratio	Lower	Upper
49	100		
128	36.7	17.6	52.9
130	46.7	22.3	66.9

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#2

Dichlorodifluoromethane

Concen: 12.397 ppbv

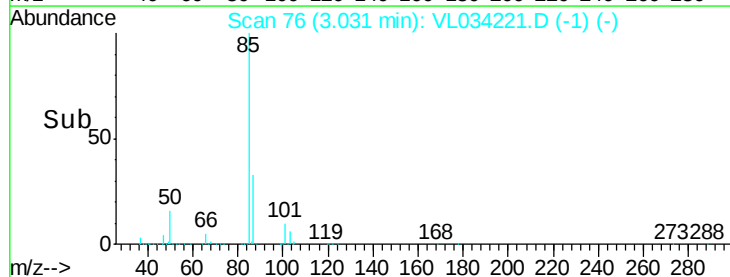
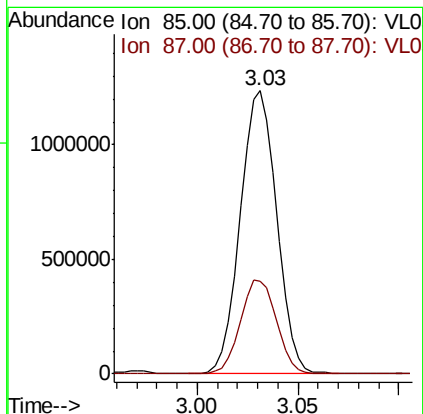
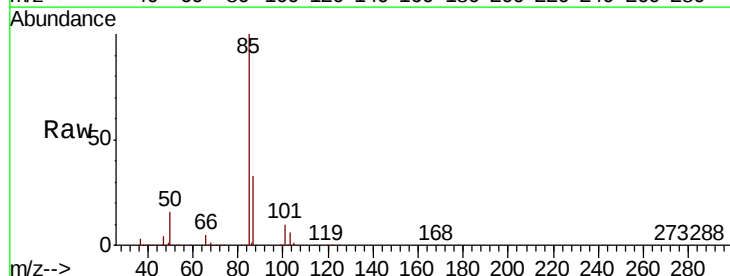
RT: 3.03 min Scan# 76

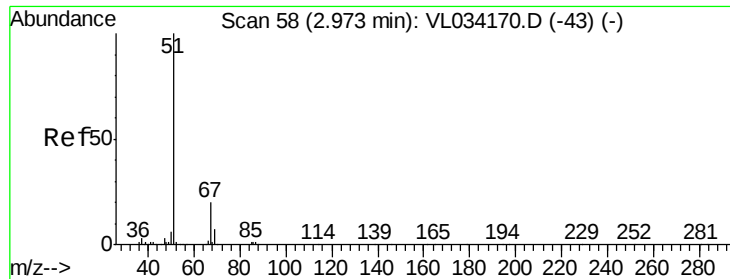
Delta R.T. -0.00 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Tgt Ion:	85	Resp:	1569391
Ion	Ratio	Lower	Upper
85	100		
87	32.9	27.2	40.8





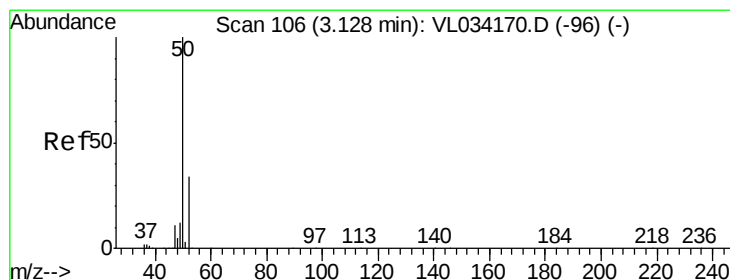
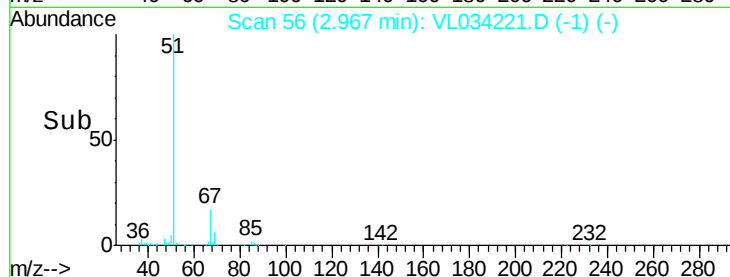
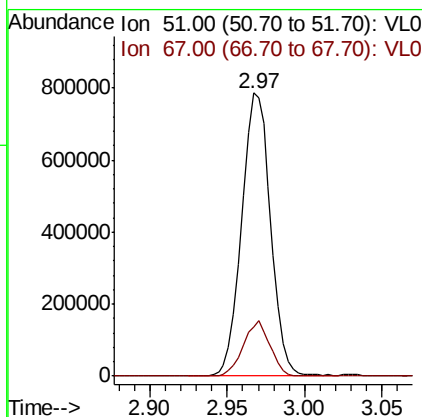
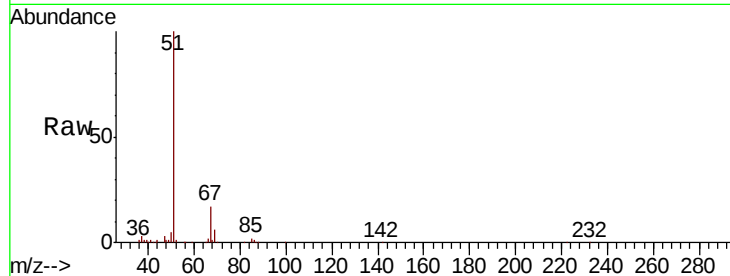
#3
Chlorodifluoromethane
Concen: 10.140 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

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Tot Ion: 51 Resp: 1018888
Ion Ratio Lower Upper
51 100
67 18.0 14.8 22.2

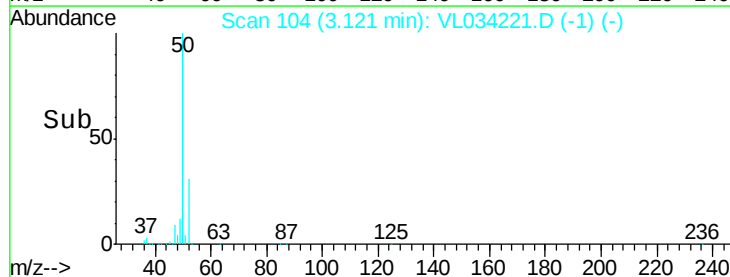
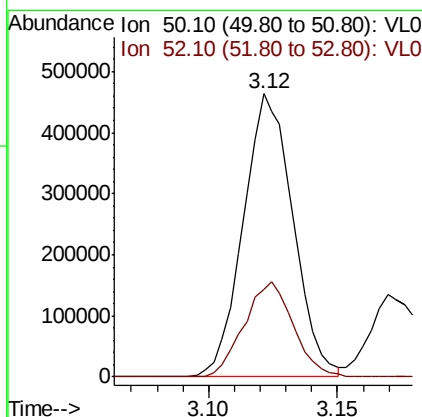
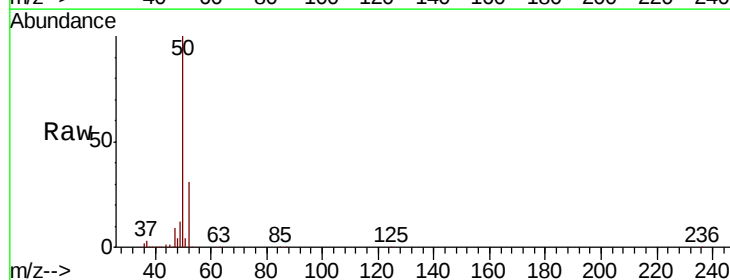
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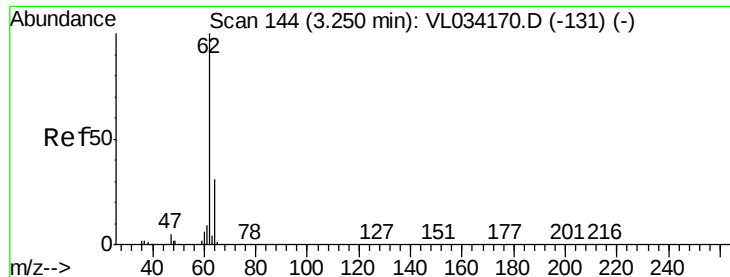
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#4
Chloromethane
Concen: 10.513 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion: 50 Resp: 620804
Ion Ratio Lower Upper
50 100
52 31.0 27.1 40.7





#5

Vinyl Chloride

Concen: 10.505 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 566885

Ion Ratio Lower Upper

62 100

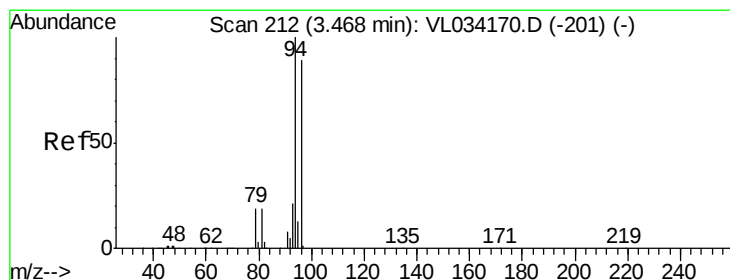
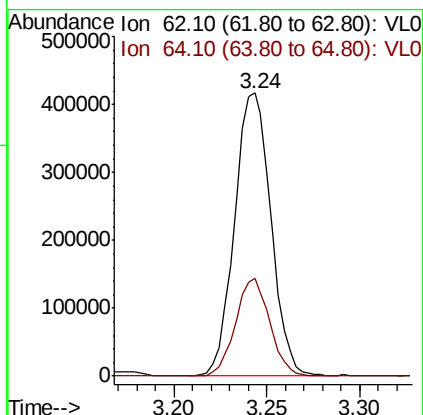
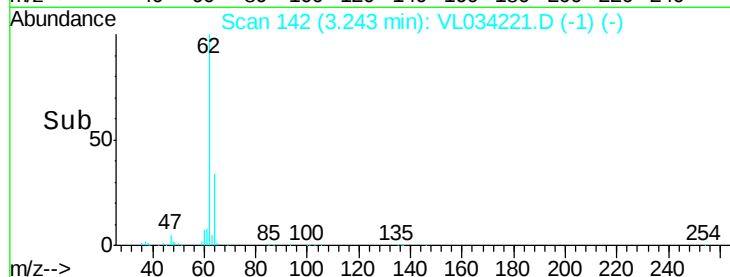
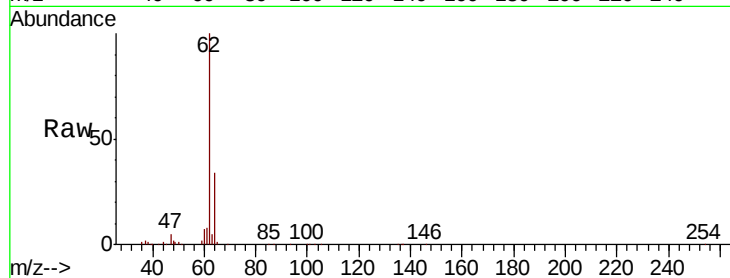
64 34.5 25.2 37.8

Manual Integrations

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#6

Bromomethane

Concen: 11.445 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL034221.D

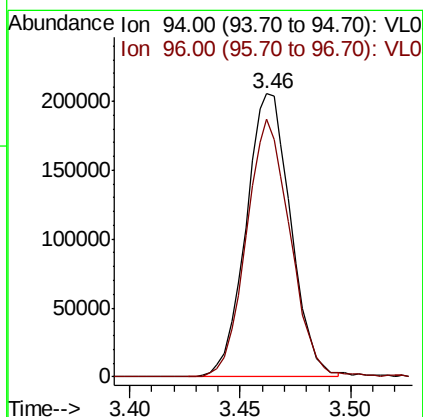
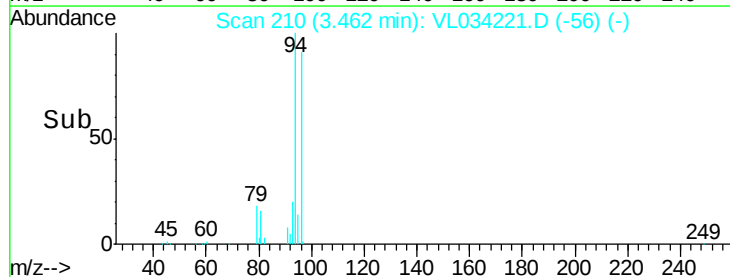
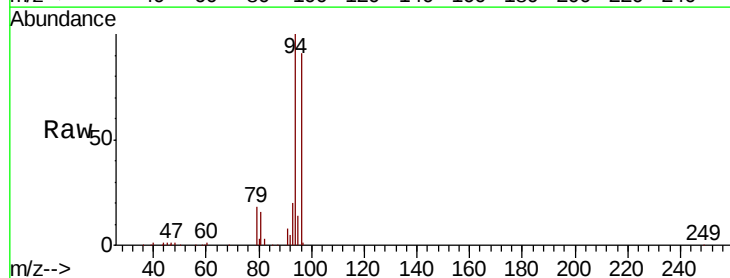
Acq: 2 Oct 2019 21:46

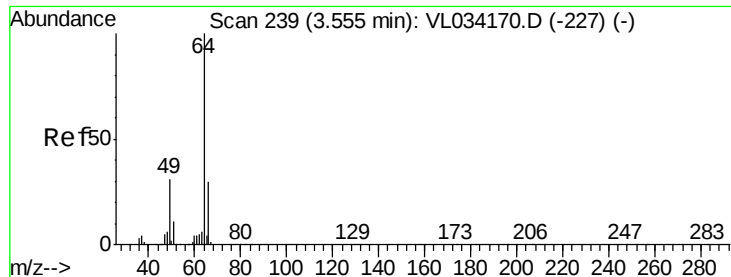
Tgt Ion: 94 Resp: 288170

Ion Ratio Lower Upper

94 100

96 91.2 71.3 106.9





#7

Chloroethane

Concen: 10.980 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 207114

Ion Ratio Lower Upper

64 100

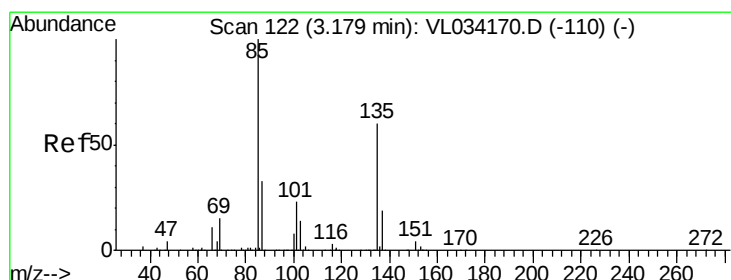
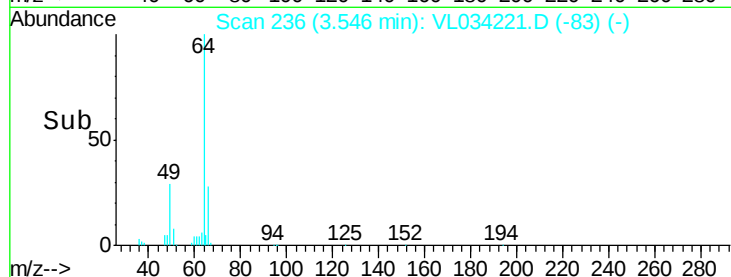
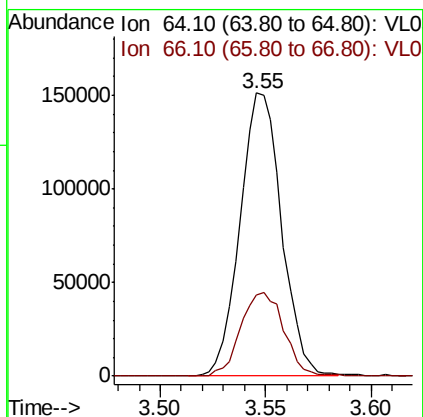
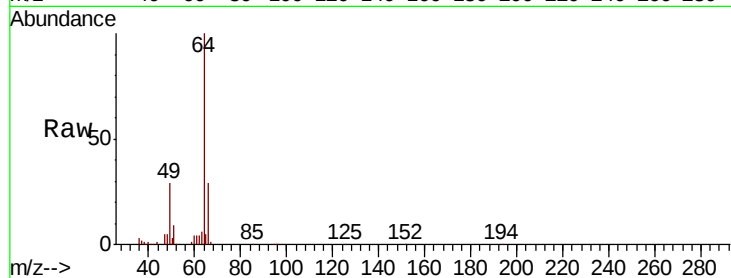
66 28.8 24.2 36.4

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#8

Dichlorotetrafluoroethane

Concen: 10.808 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL034221.D

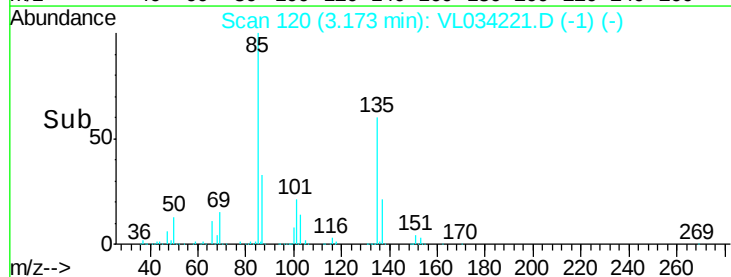
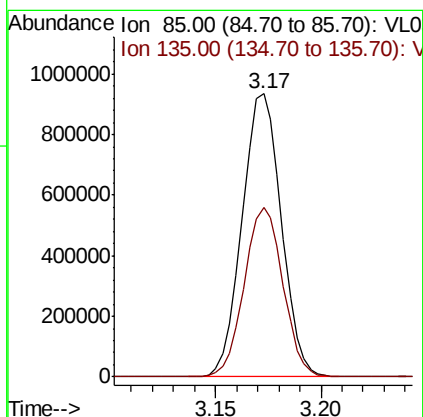
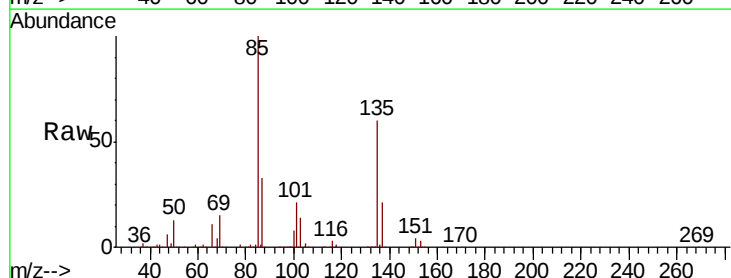
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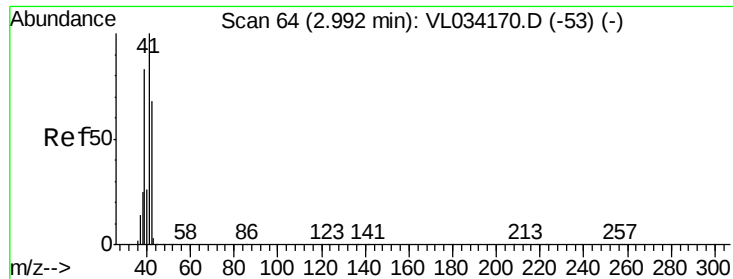
Tgt Ion: 85 Resp: 1207562

Ion Ratio Lower Upper

85 100

135 59.3 47.3 70.9





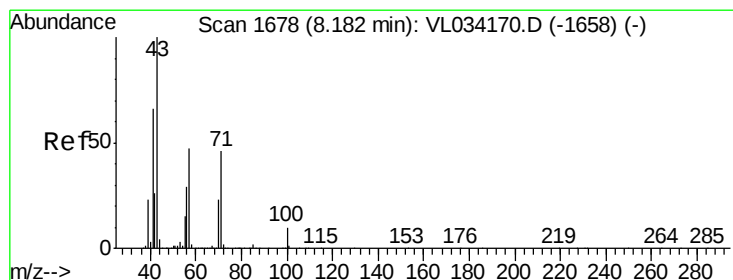
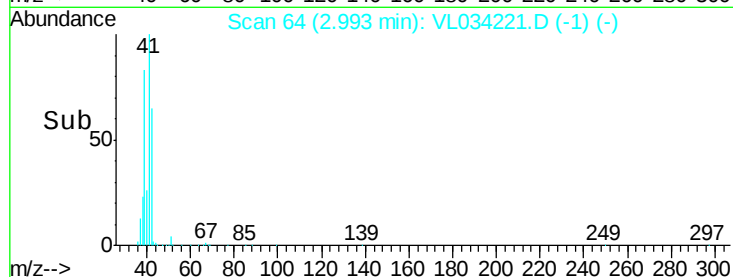
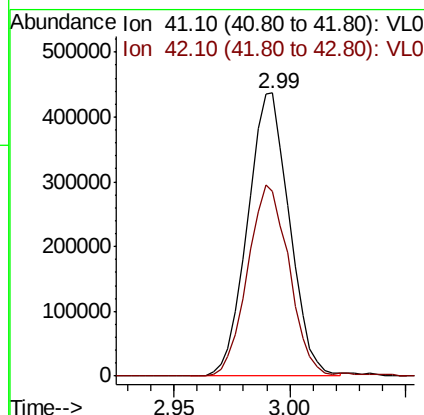
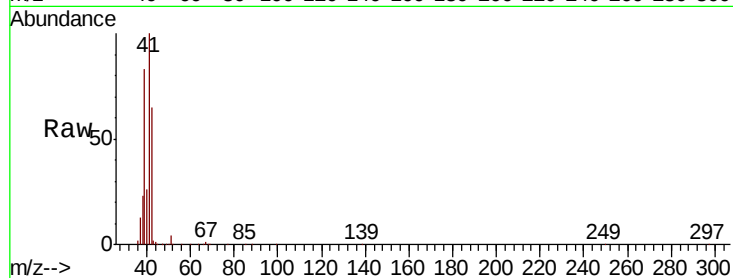
#9
 Propene
 Concen: 11.067 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
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 ClientSampleId :
 VSTDCCC010EC

Tot Ion	41	Resp	548665
Ion Ratio	41	100	
Lower	42	68.0	55.8
Upper			83.6

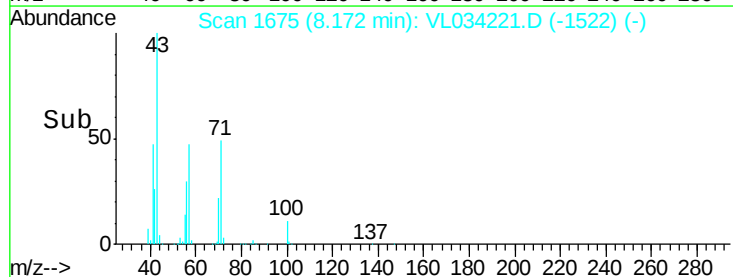
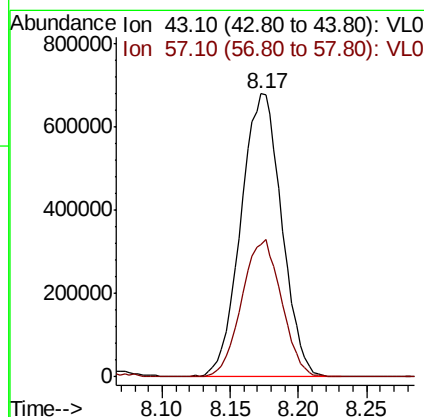
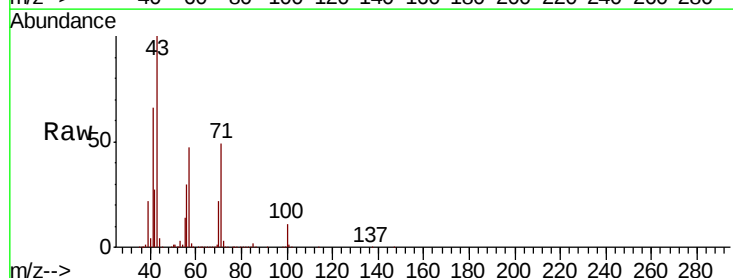
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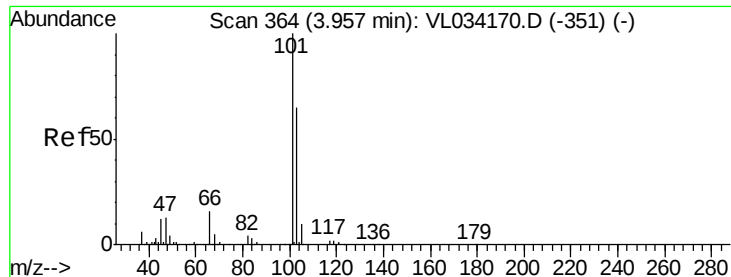
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#10
 Heptane
 Concen: 10.896 ppbv
 RT: 8.17 min Scan# 1675
 Delta R.T. -0.01 min
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Tgt Ion	43	Resp	1407864
Ion Ratio	43	100	
Lower	57	47.2	37.5
Upper			56.3





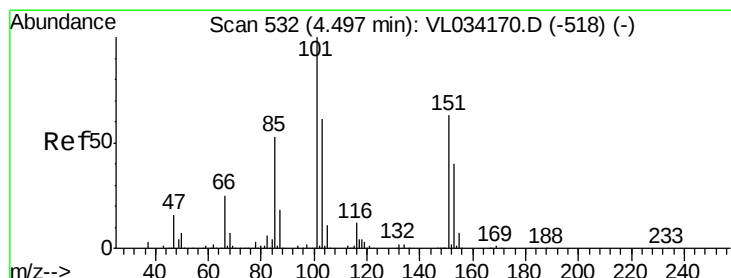
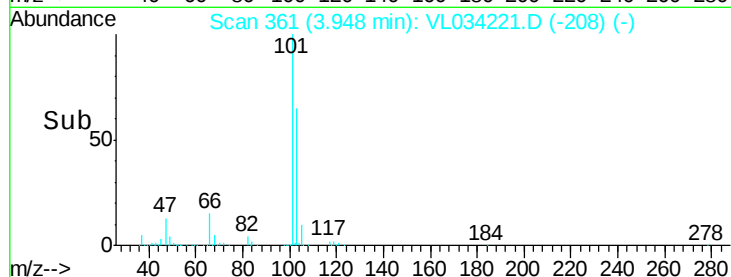
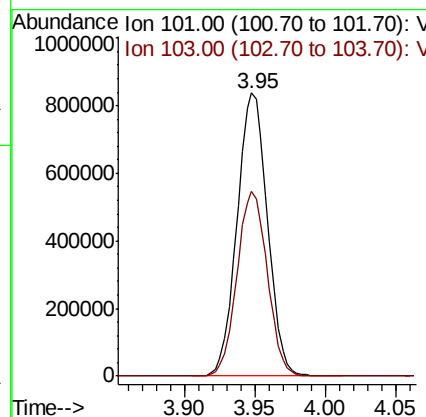
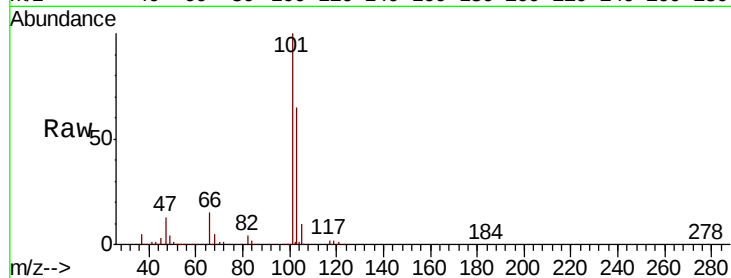
#11
 Trichlorofluoromethane
 Concen: 10.986 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1265894
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.1 78.1

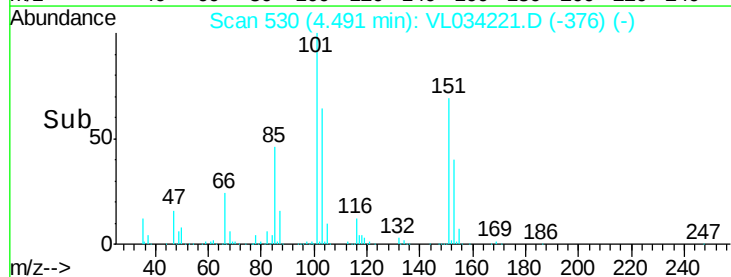
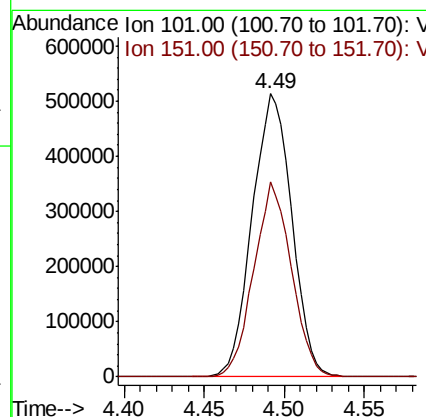
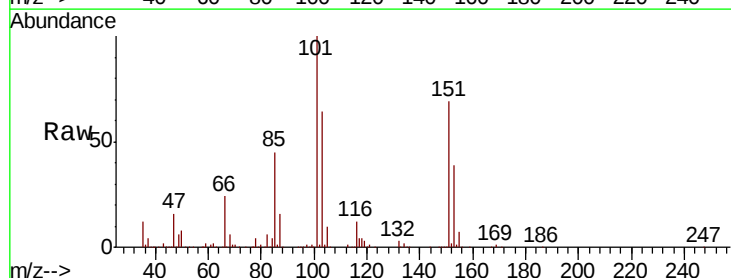
Manual Integrations
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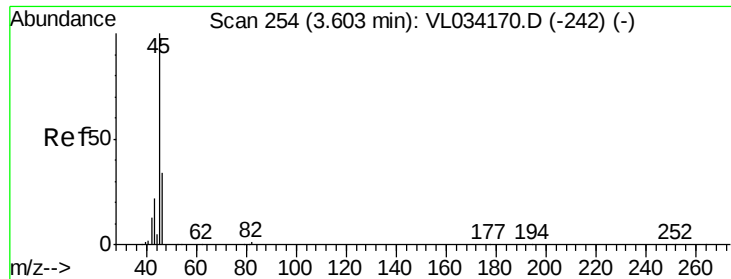
MMDadoda
 10/7/2019 12:30:43 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.541 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion:101 Resp: 870348
 Ion Ratio Lower Upper
 101 100
 151 65.4 51.8 77.8





#13

Ethanol

Concen: 8.349 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Tot Ion: 45 Resp: 100235

Ion Ratio Lower Upper

45 100

46 37.1 15.5 61.9

Instrument :

MSVOA_L

ClientSampleId :

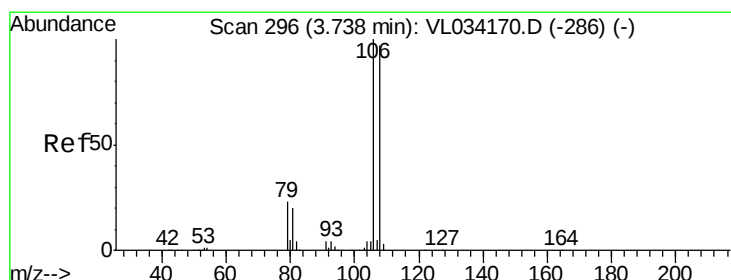
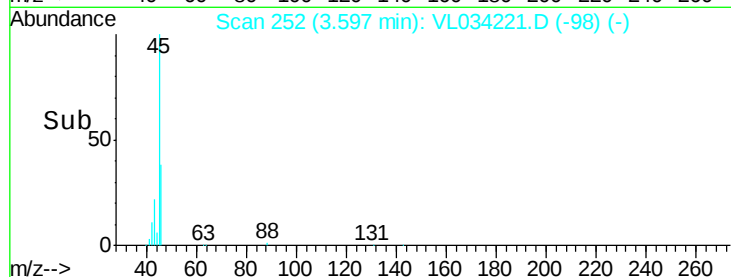
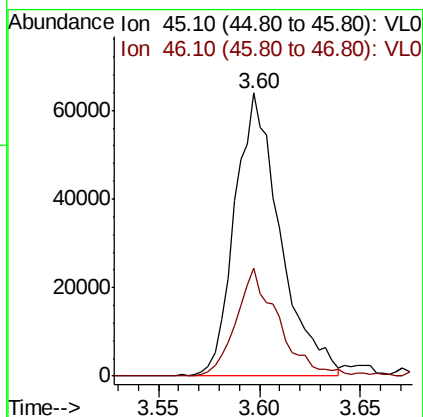
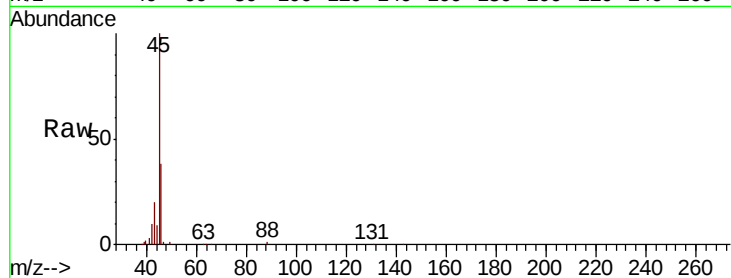
VSTDCCC010EC

Manual Integrations

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#14

Bromoethene

Concen: 11.966 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

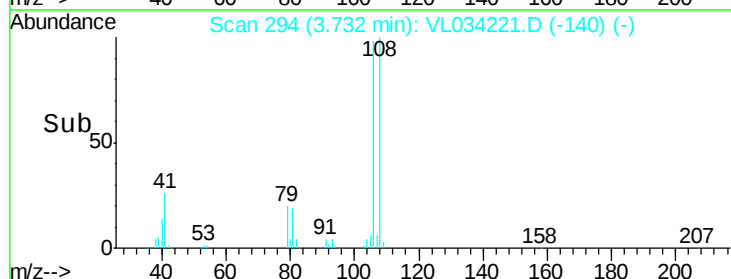
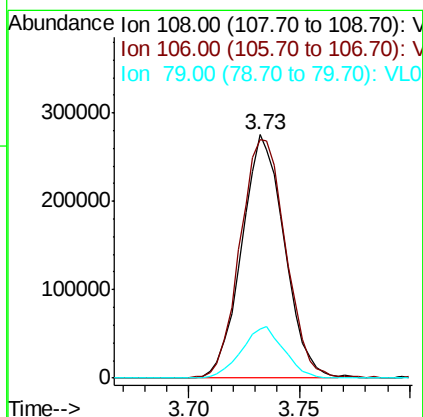
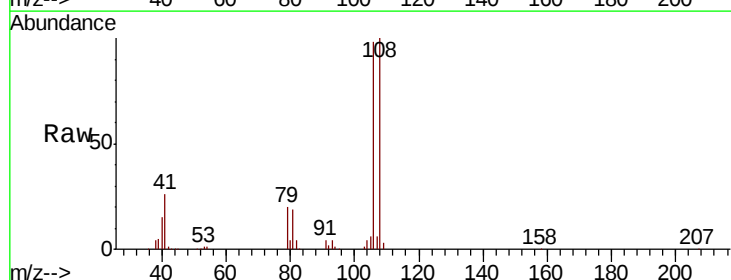
Tgt Ion: 108 Resp: 368935

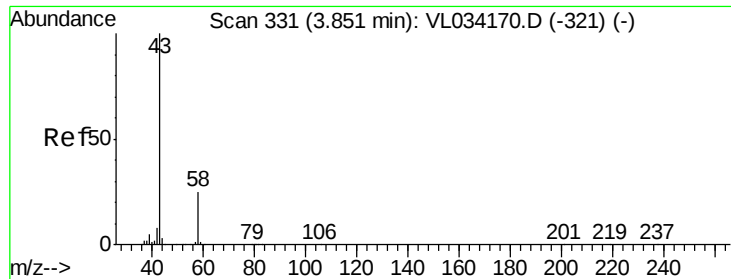
Ion Ratio Lower Upper

108 100

106 105.7 86.2 129.4

79 21.5 18.6 27.8





#15

Acetone

Concen: 9.147 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1050610

Ion Ratio Lower Upper

43 100

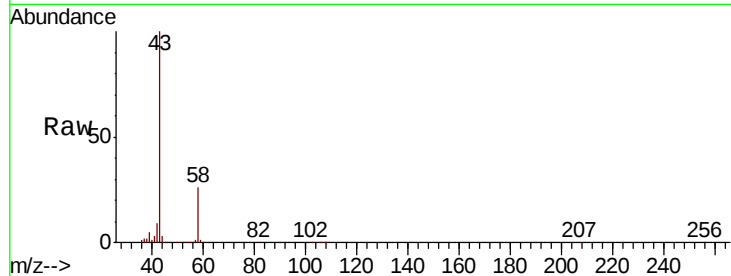
58 25.5 20.5 30.7

Manual Integrations

APPROVED

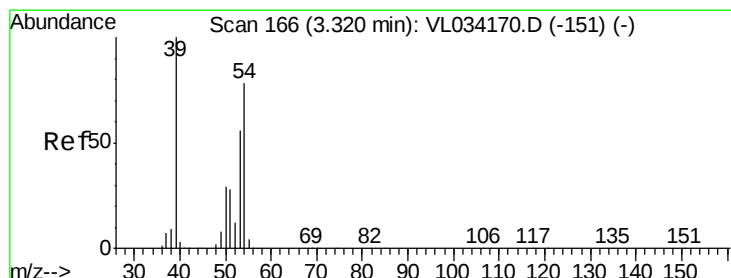
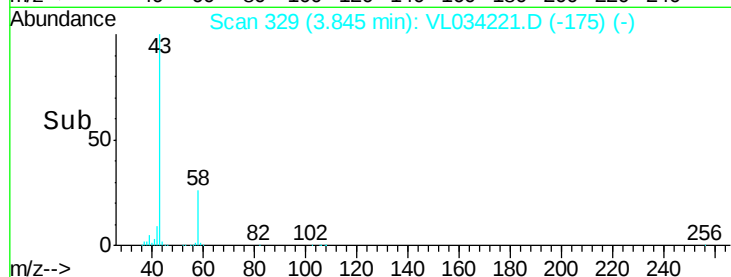
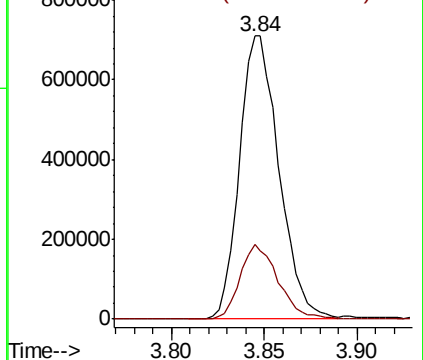
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 11.071 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL034221.D

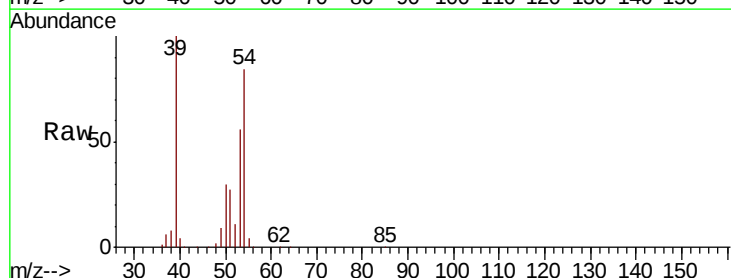
Acq: 2 Oct 2019 21:46

Tgt Ion: 39 Resp: 554959

Ion Ratio Lower Upper

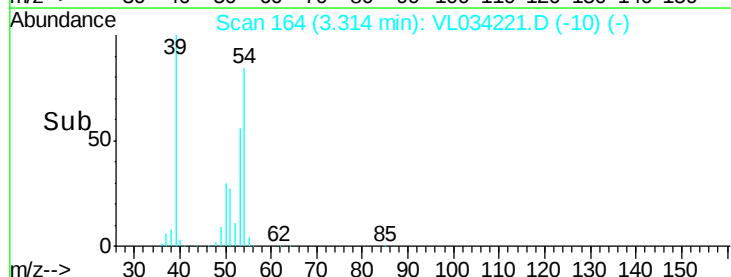
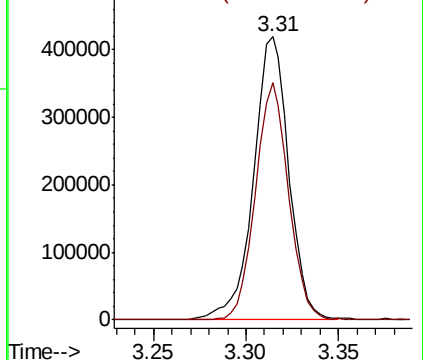
39 100

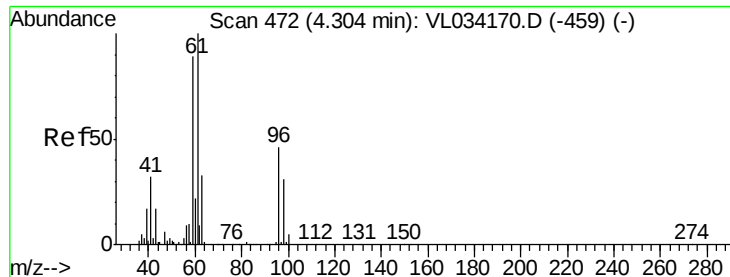
54 78.9 63.4 95.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

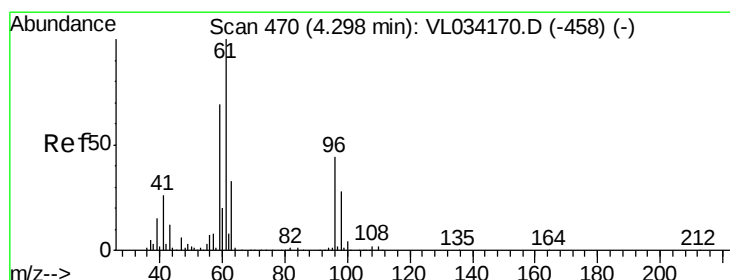
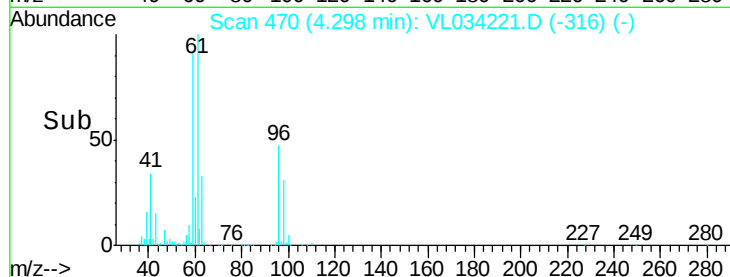
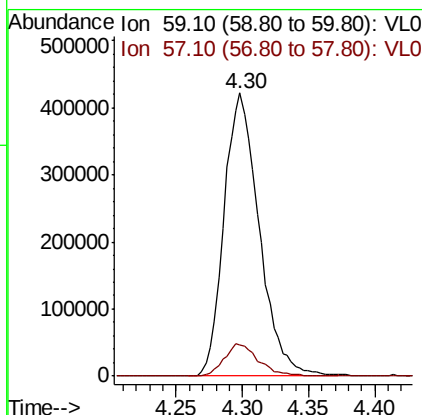
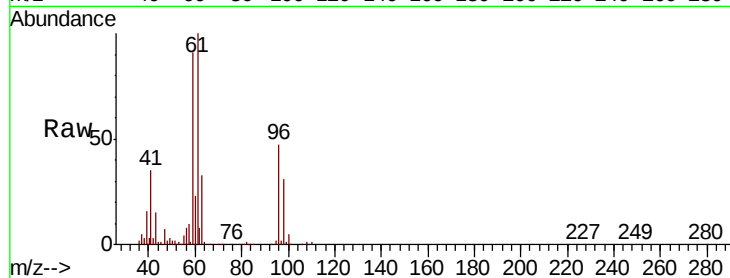
tert-Butyl alcohol
Concen: 10.669 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 776512
Ion Ratio Lower Upper
59 100
57 11.2 8.7 13.1

Manual Integrations
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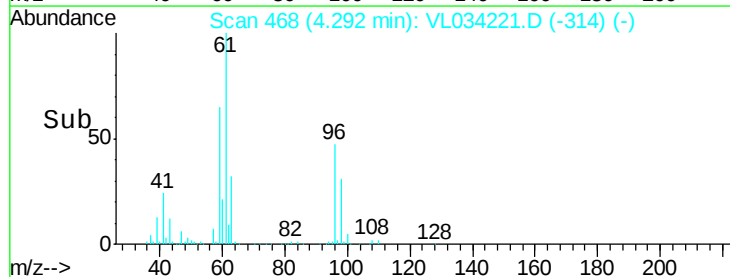
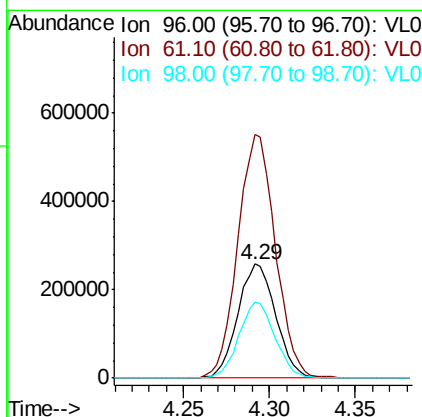
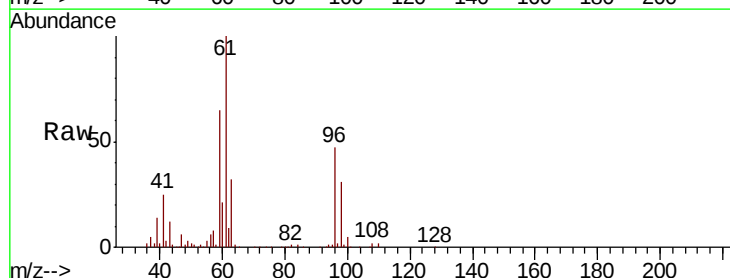
MMDadoda
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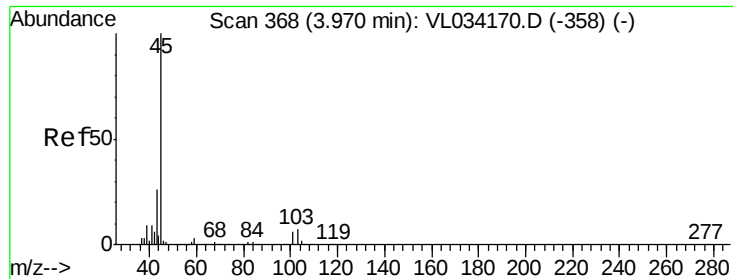


#18

1,1-Dichloroethene
Concen: 12.017 ppbv
RT: 4.29 min Scan# 468
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion: 96 Resp: 395261
Ion Ratio Lower Upper
96 100
61 212.9 183.3 274.9
98 66.5 51.4 77.2





#19

Isopropyl Alcohol

Concen: 9.514 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 672001

Ion Ratio Lower Upper

45 100

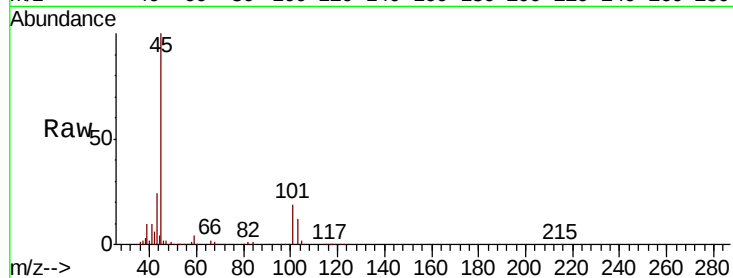
58 1.8 1.4 2.0

Manual Integrations

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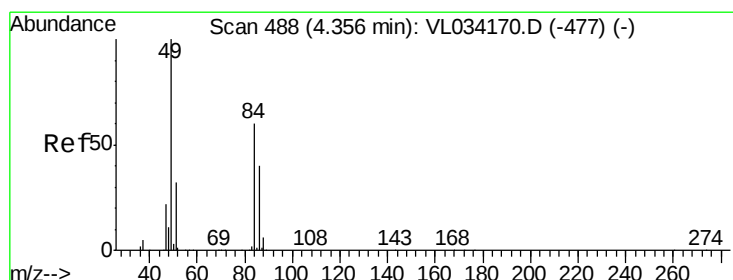
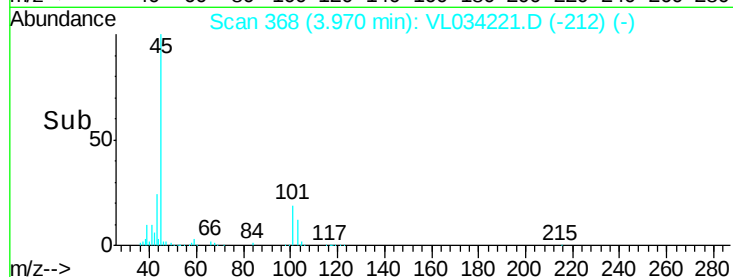
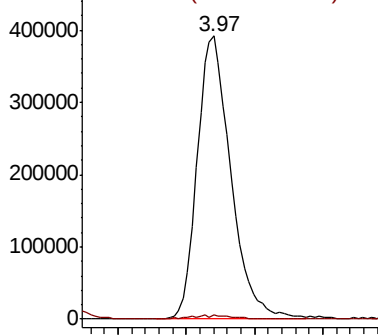
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.734 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Tgt Ion: 84 Resp: 355480

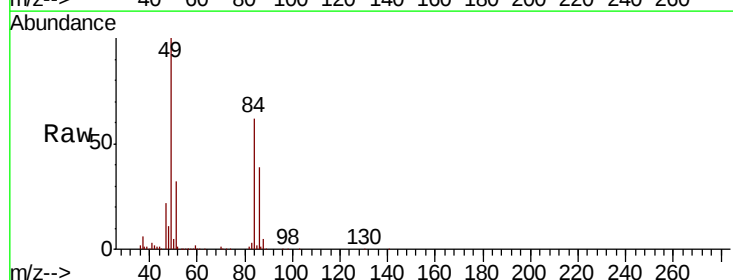
Ion Ratio Lower Upper

84 100

49 161.2 133.8 200.8

51 51.3 43.6 65.4

86 62.4 53.1 79.7

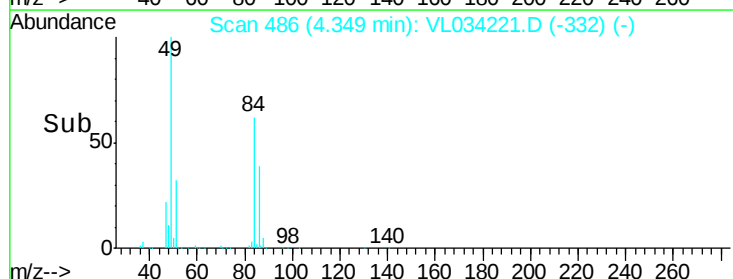
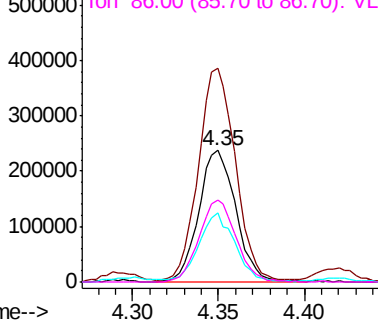


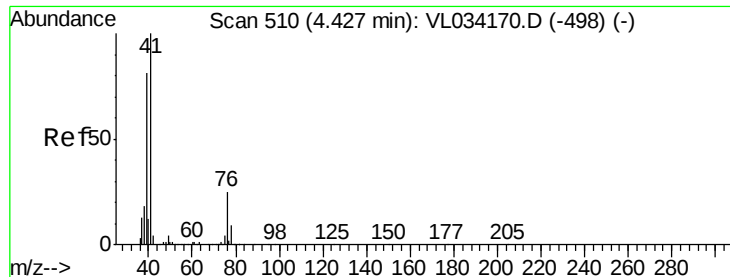
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 11.556 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

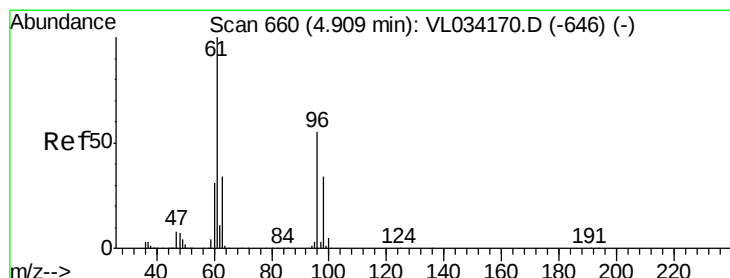
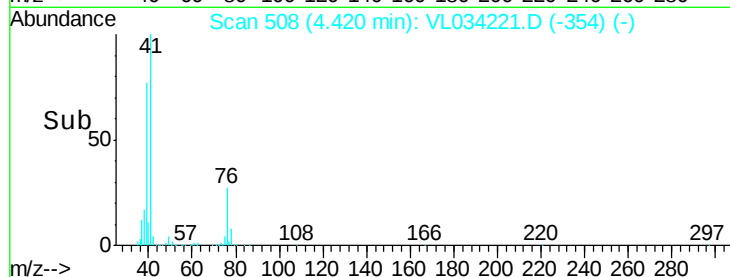
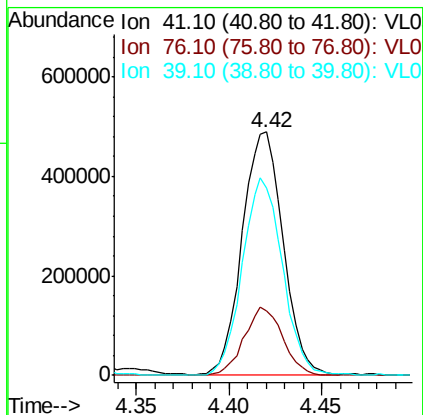
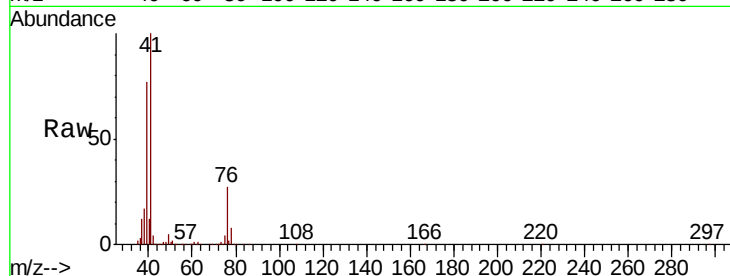
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	749763
Ion	Ratio	Lower	Upper
41	100		
76	26.8	21.8	32.6
39	79.8	64.8	97.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 12.258 ppbv

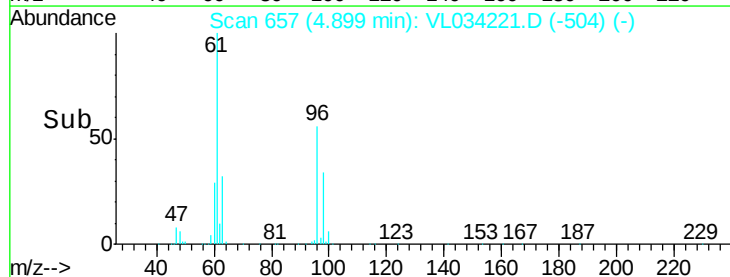
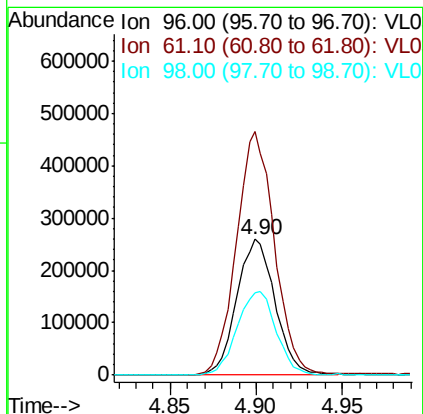
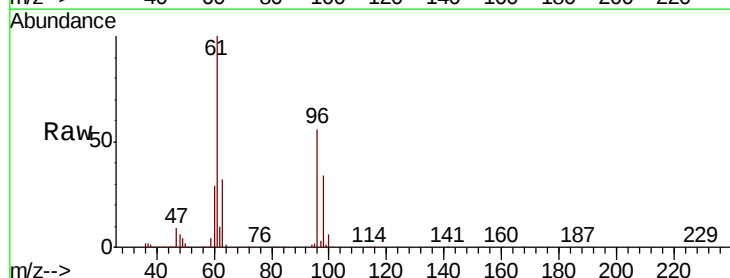
RT: 4.90 min Scan# 657

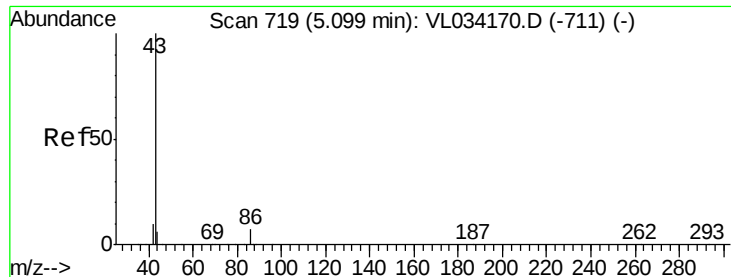
Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Tgt Ion:	96	Resp:	403376
Ion	Ratio	Lower	Upper
96	100		
61	179.2	145.5	218.3
98	60.6	49.9	74.9





#23

Vinyl Acetate

Concen: 10.789 ppbv

RT: 5.09 min Scan# 717

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1826215

Ion Ratio Lower Upper

43 100

86 6.7 5.1 7.7

42 10.0 8.6 12.8

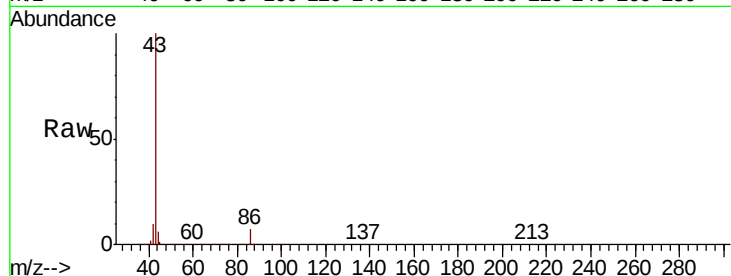
44 5.7 4.7 7.1

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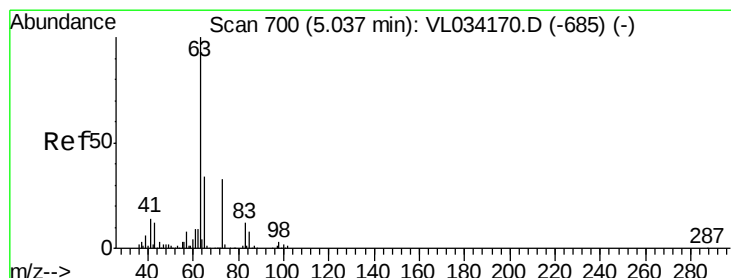
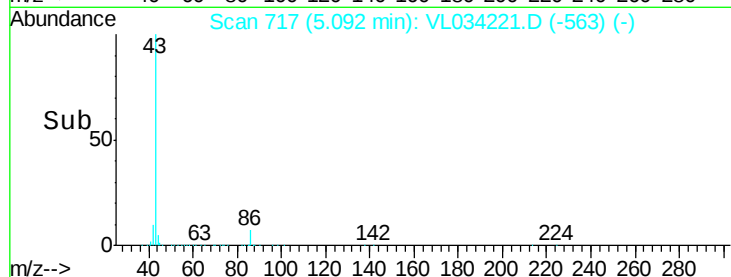
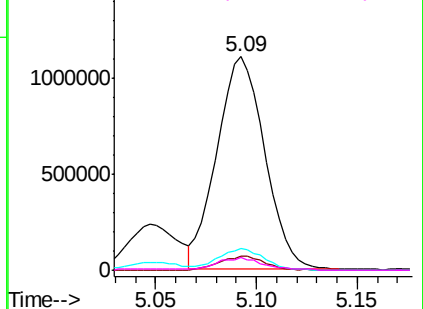


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.567 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

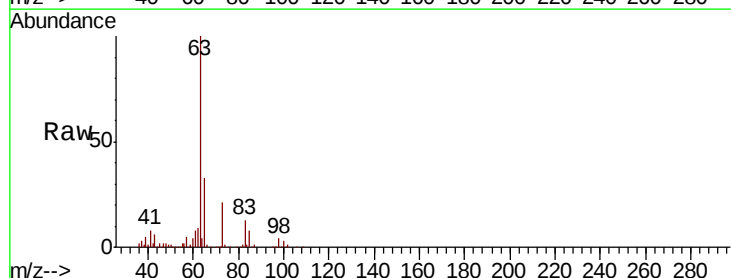
Tgt Ion: 63 Resp: 1204356

Ion Ratio Lower Upper

63 100

98 3.9 1.8 5.3

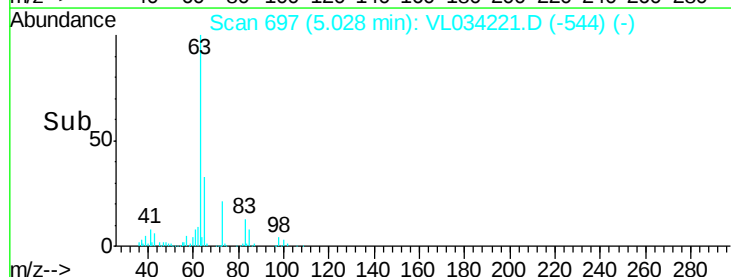
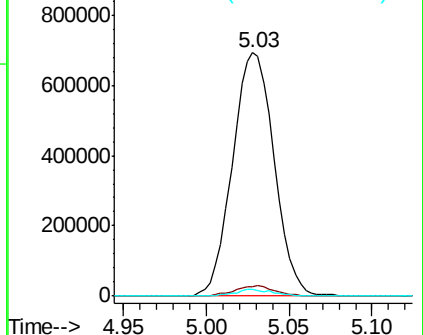
100 2.5 1.0 3.0

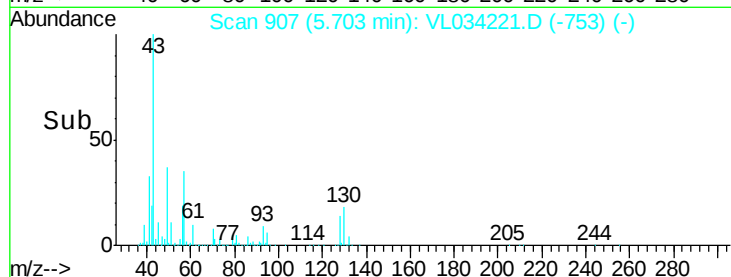
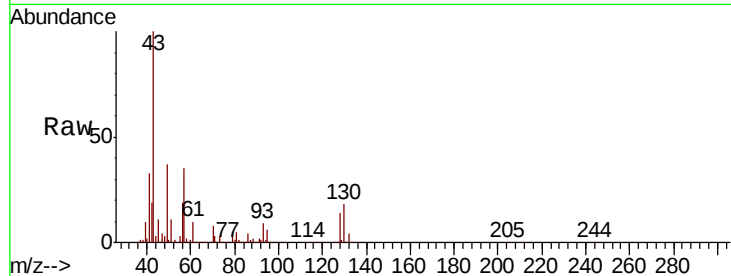
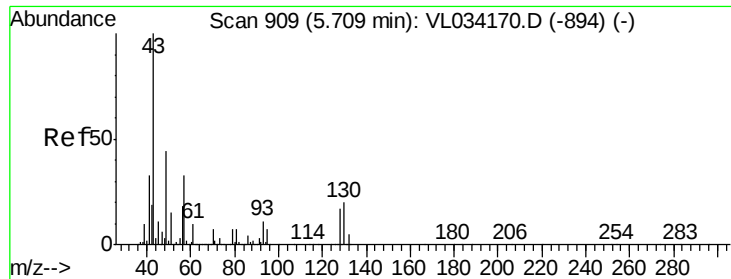


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

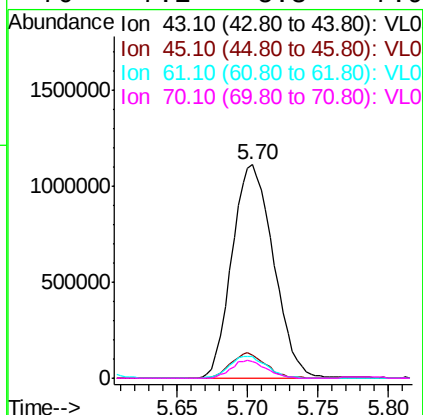
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 10.520 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

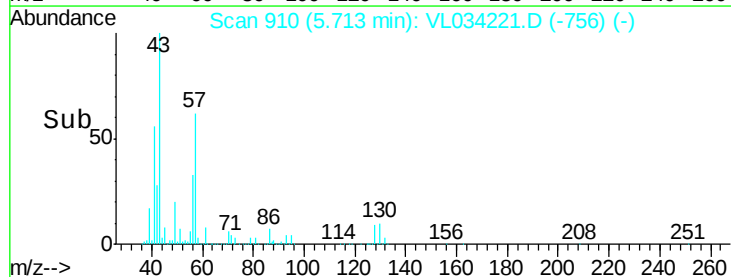
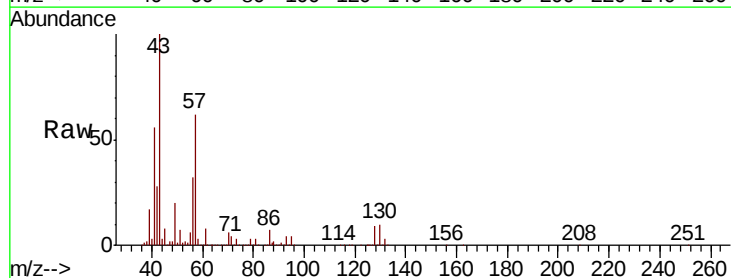
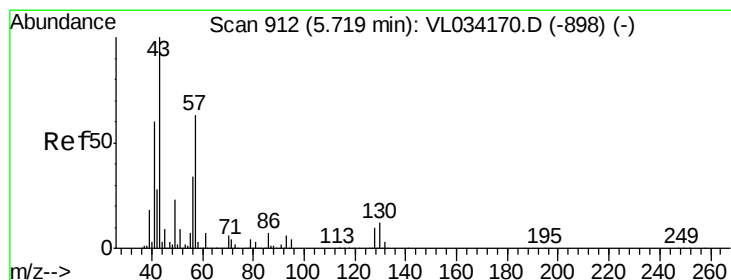
Tot Ion	Ion	Ratio	Lower	Upper
43	43.10 (42.80 to 43.80): VL0	100		
45	45.10 (44.80 to 45.80): VL0	10.1	8.4	12.6
61	61.10 (60.80 to 61.80): VL0	9.3	7.2	10.8
70	70.10 (69.80 to 70.80): VL0	7.1	5.3	7.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

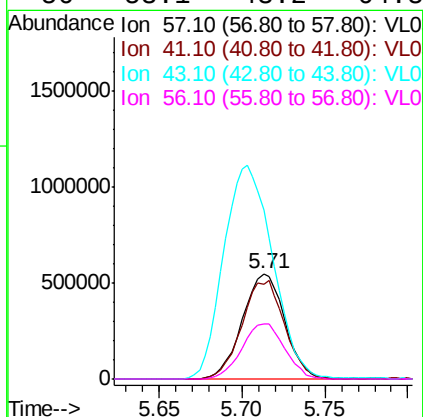
Manual Integrations
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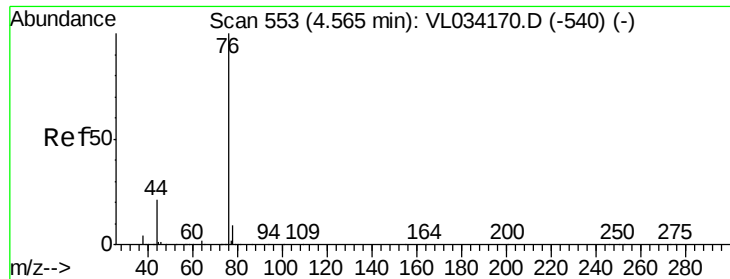
MMDadoda
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#26
Hexane
Concen: 10.779 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ion	Ratio	Lower	Upper
57	57.10 (56.80 to 57.80): VL0	100		
41	41.10 (40.80 to 41.80): VL0	94.9	78.5	117.7
43	43.10 (42.80 to 43.80): VL0	236.1	189.5	284.3
56	56.10 (55.80 to 56.80): VL0	53.1	43.2	64.8





#27

Carbon Disulfide

Concen: 12.486 ppbv

RT: 4.56 min Scan# 551

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1040471

Ion Ratio Lower Upper

76 100

44 21.4 17.6 26.4

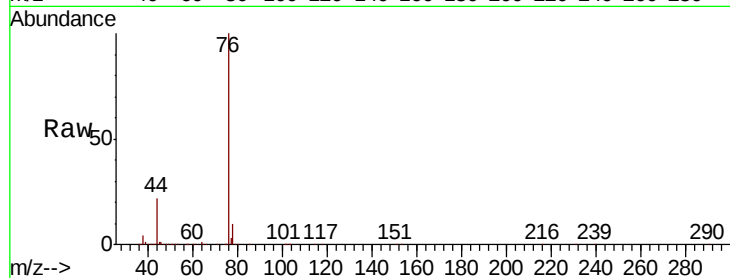
78 9.8 7.6 11.4

Manual Integrations

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MMDadoda

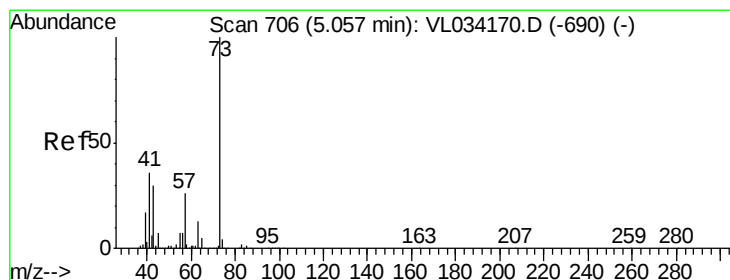
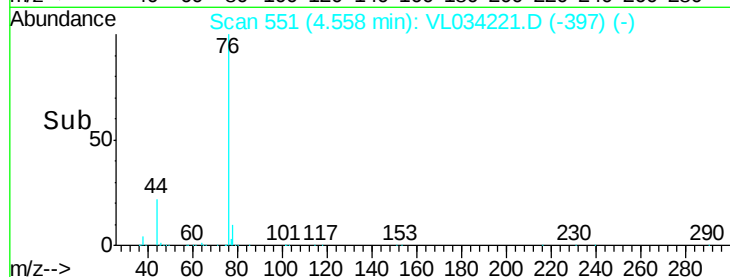
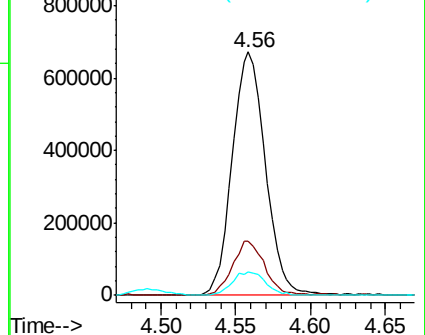
10/7/2019 12:30:43 PM



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: 11.537 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034221.D

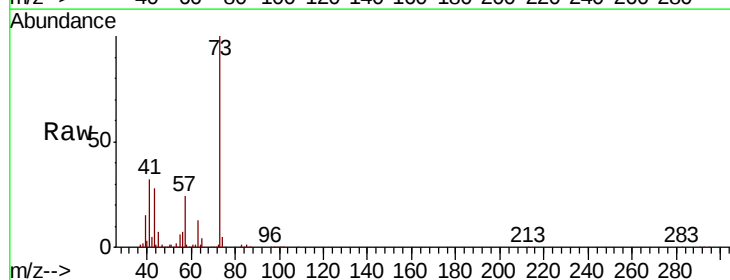
Acq: 2 Oct 2019 21:46

Tgt Ion: 73 Resp: 1548168

Ion Ratio Lower Upper

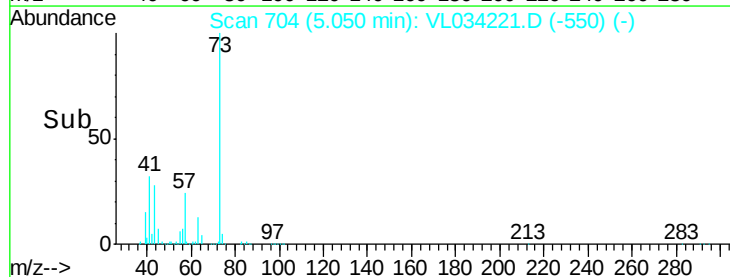
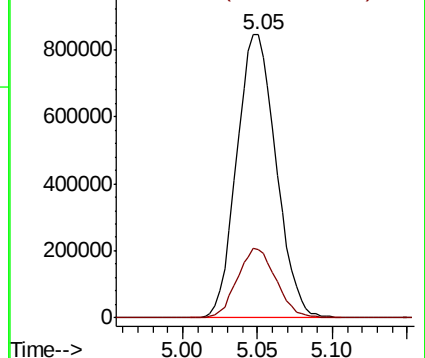
73 100

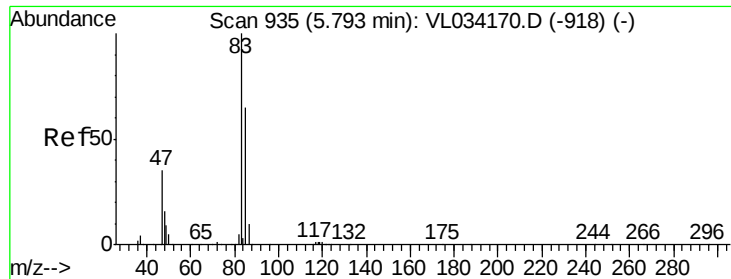
57 24.2 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





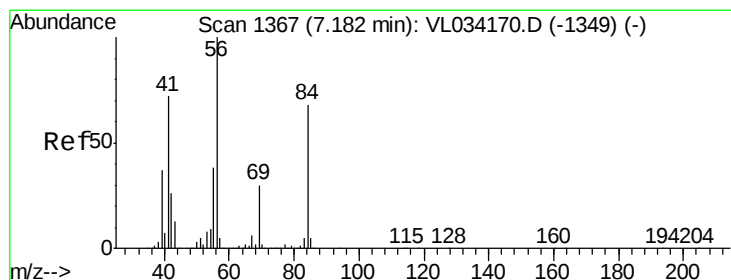
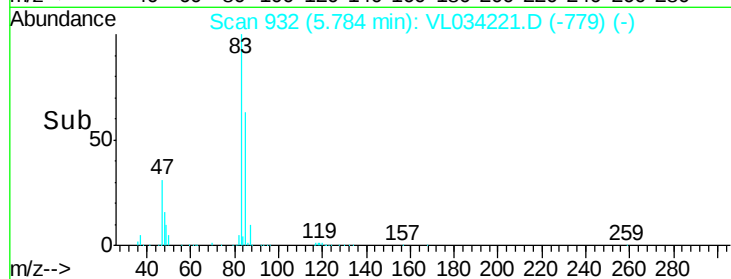
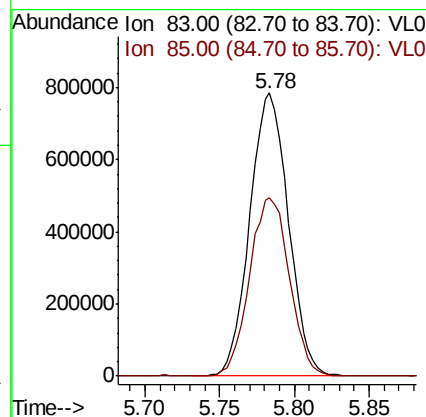
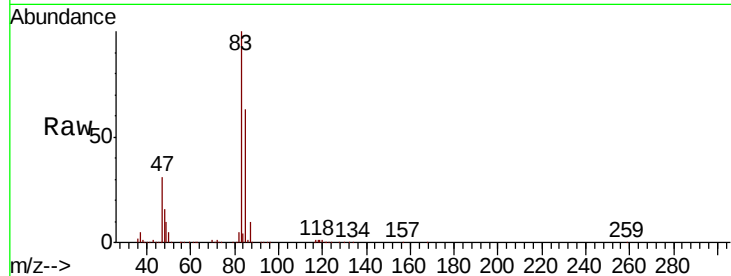
#29
Chloroform
Concen: 10.903 ppbv
RT: 5.78 min Scan# 932
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1407745
Ion Ratio Lower Upper
83 100
85 63.0 52.3 78.5

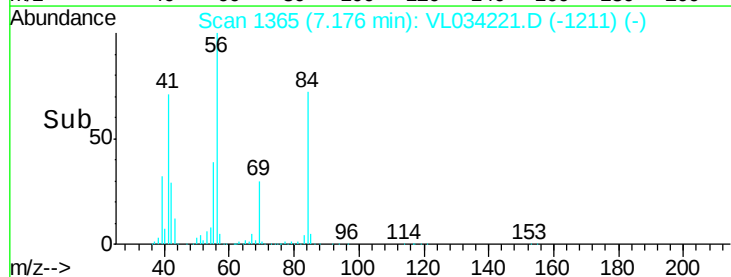
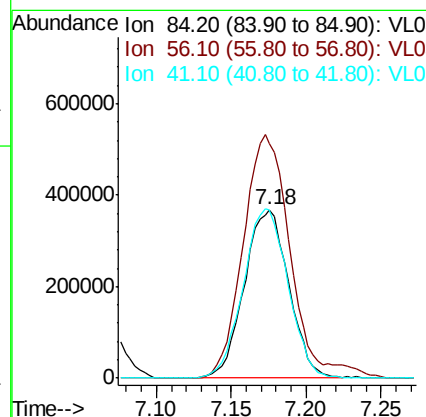
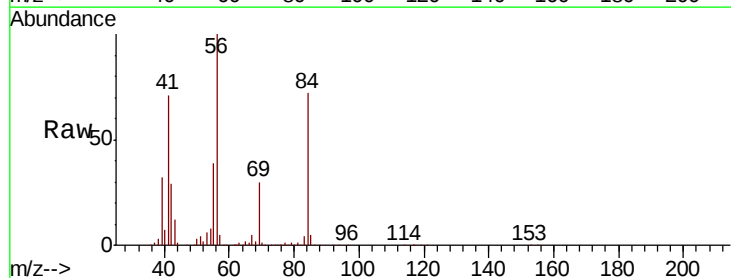
Manual Integrations
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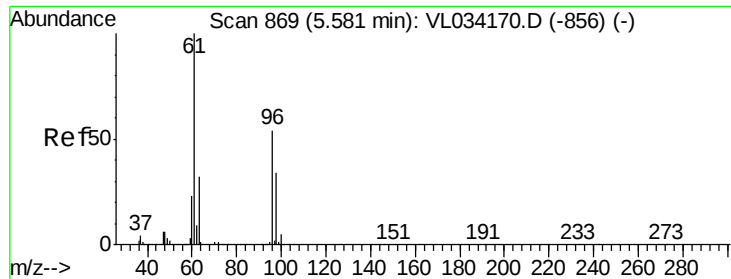
MMDadoda
10/7/2019 12:30:43 PM



#30
Cyclohexane
Concen: 11.599 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion: 84 Resp: 756656
Ion Ratio Lower Upper
84 100
56 155.2 126.2 189.2
41 102.3 85.8 128.8





#31

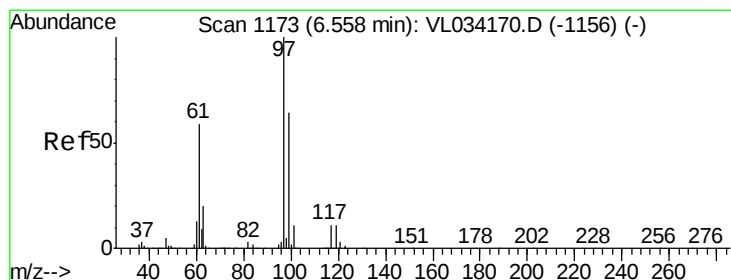
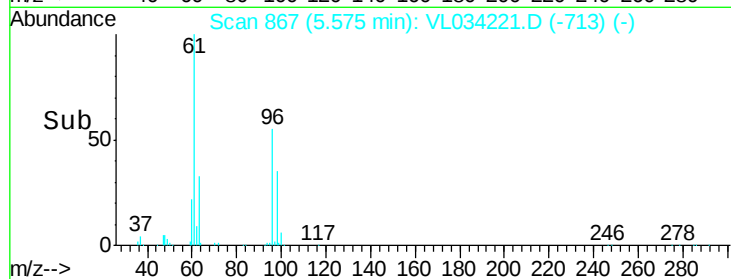
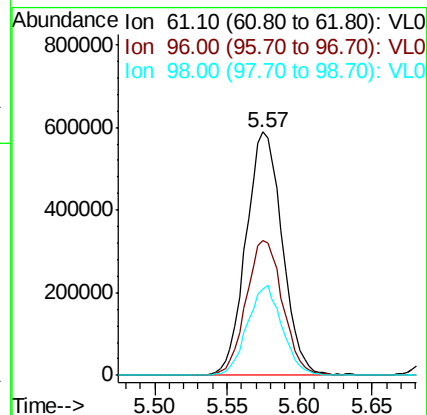
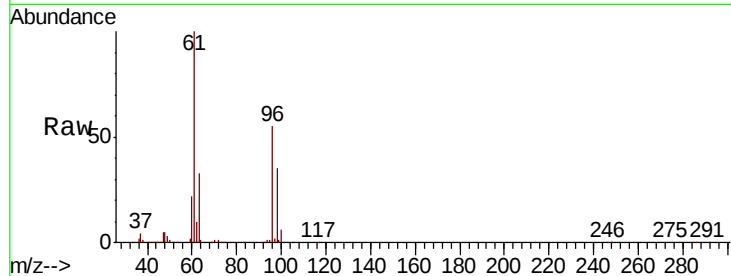
cis-1,2-Dichloroethene
 Concen: 11.154 ppbv
 RT: 5.57 min Scan# 867
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	55.3	43.0	64.4
98	35.2	27.2	40.8

Manual Integrations
 APPROVED

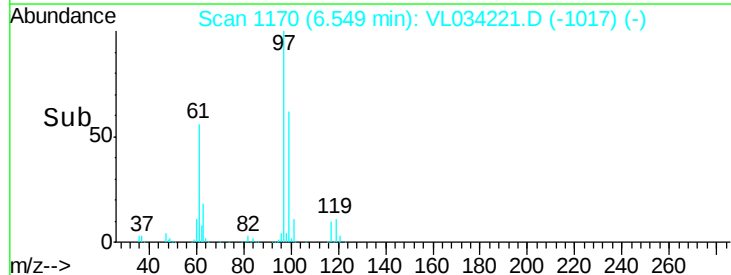
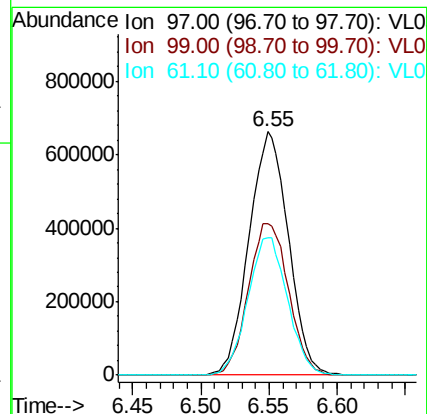
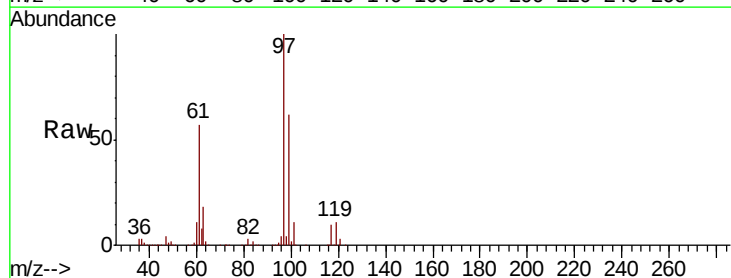
MMDadoda
 10/7/2019 12:30:43 PM

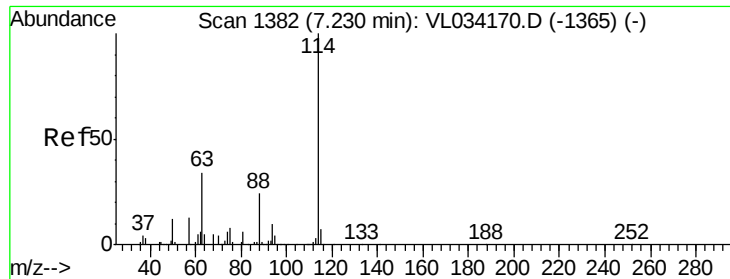


#32

1,1,1-Trichloroethane
 Concen: 10.670 ppbv
 RT: 6.55 min Scan# 1170
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.4	77.2
61	57.2	48.4	72.6





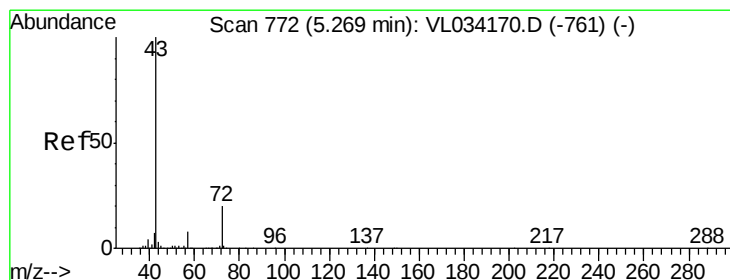
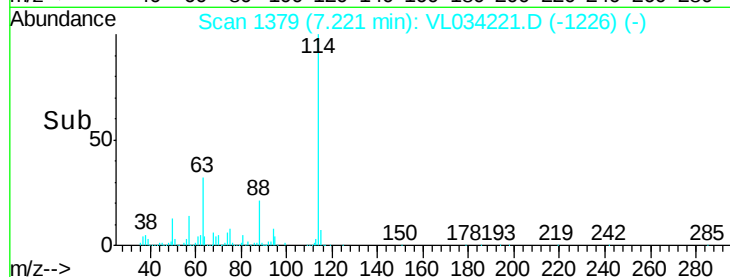
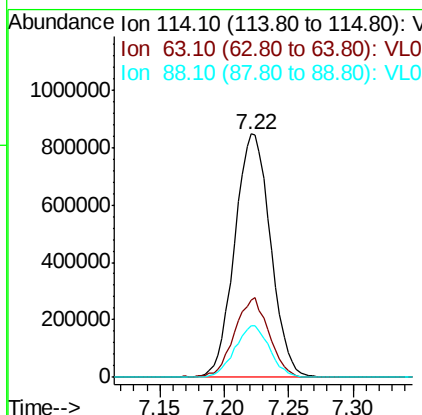
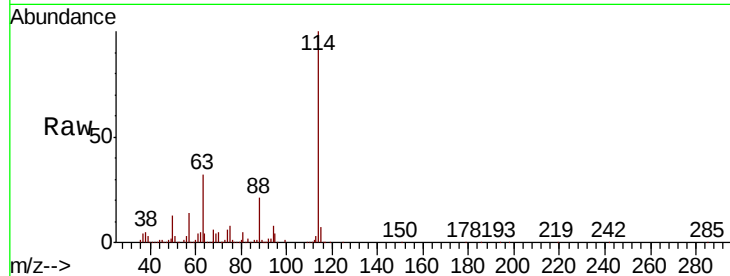
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.8	27.8	41.6
88	20.6	17.1	25.7

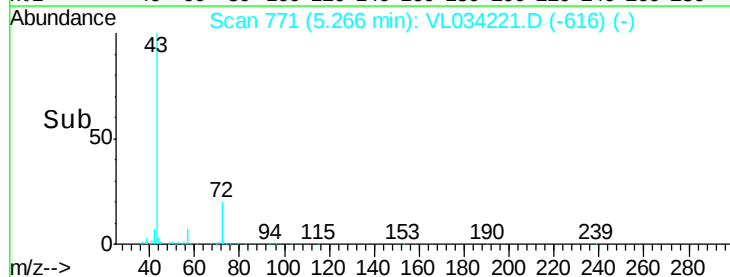
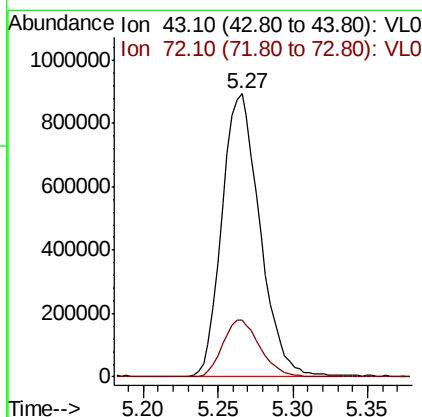
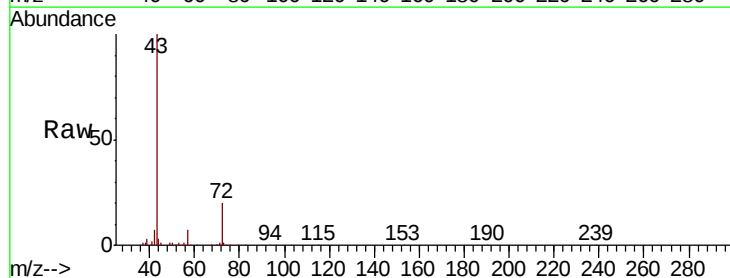
Manual Integrations
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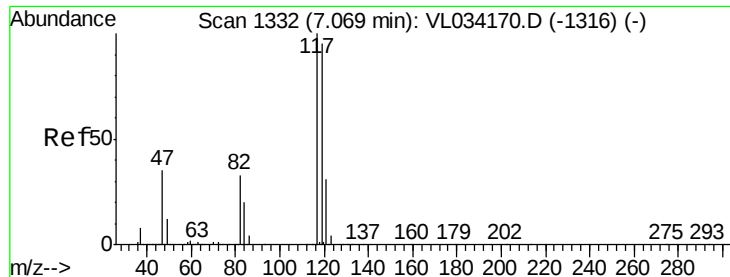
MMDadoda
 10/7/2019 12:30:43 PM



#34
 2-Butanone
 Concen: 9.380 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.00 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.9	15.0	22.6





#35

Carbon Tetrachloride

Concen: 9.390 ppbv

RT: 7.06 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 1278553

Ion Ratio Lower Upper

117 100

119 94.3 75.8 113.6

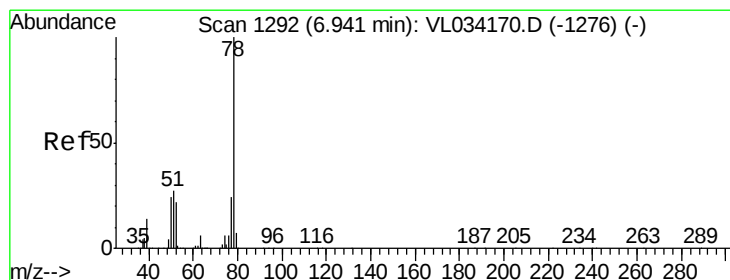
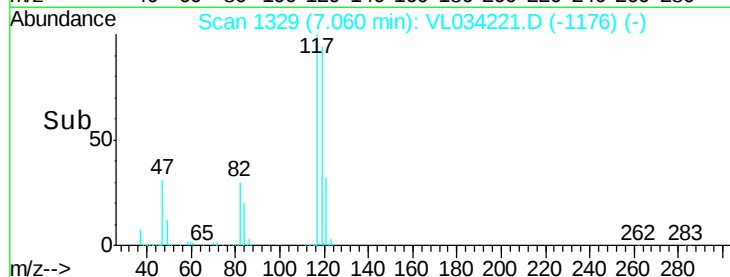
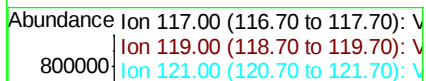
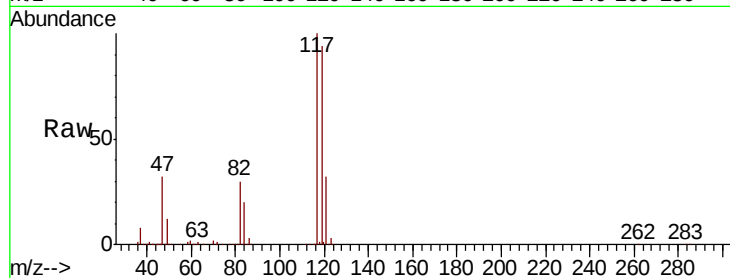
121 31.7 25.0 37.6

Manual Integrations

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MMDadoda

10/7/2019 12:30:43 PM



#36

Benzene

Concen: 10.220 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

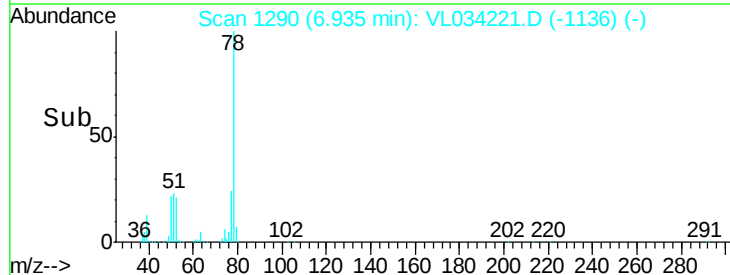
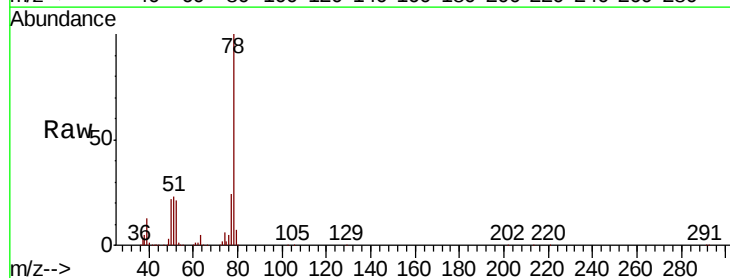
Tgt Ion: 78 Resp: 1849991

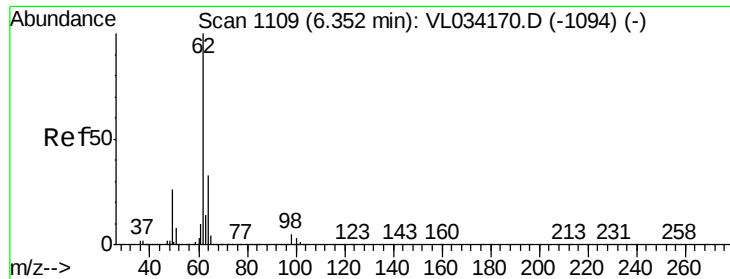
Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.4

50 21.6 18.9 28.3





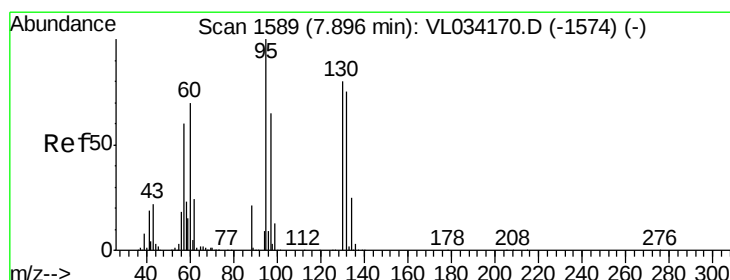
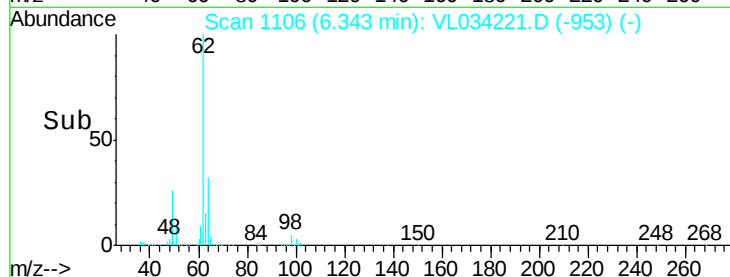
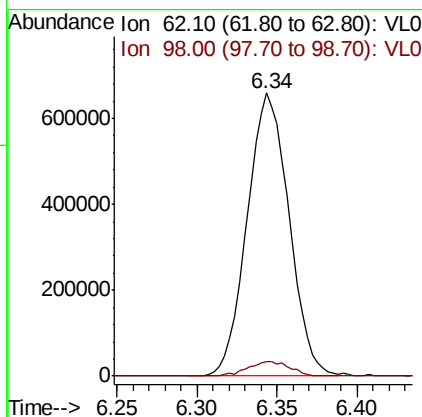
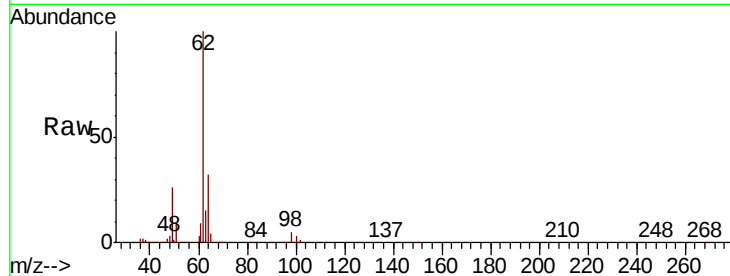
#37
 1,2-Dichloroethane
 Concen: 9.174 ppbv
 RT: 6.34 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.3	3.8	5.8

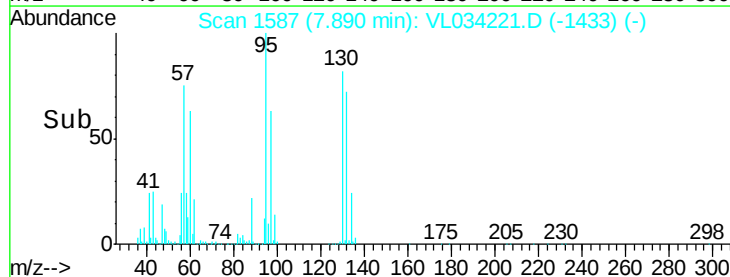
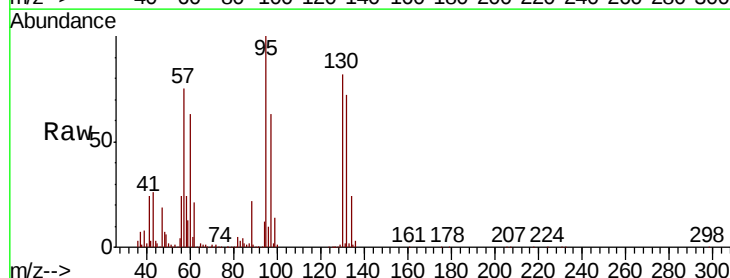
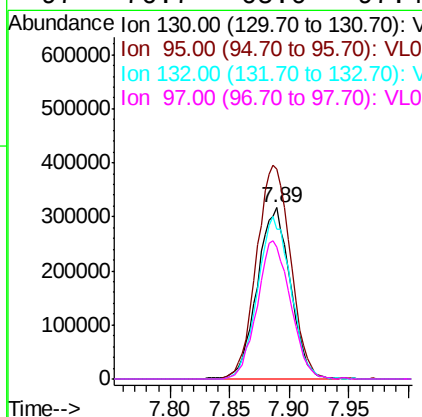
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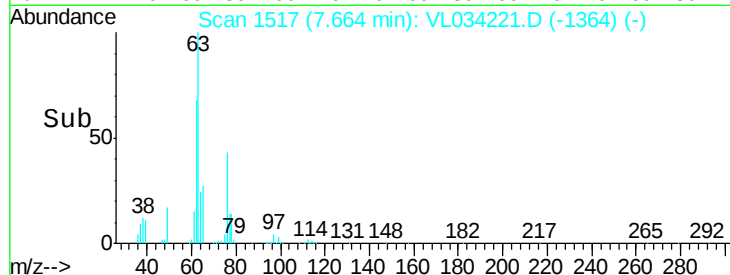
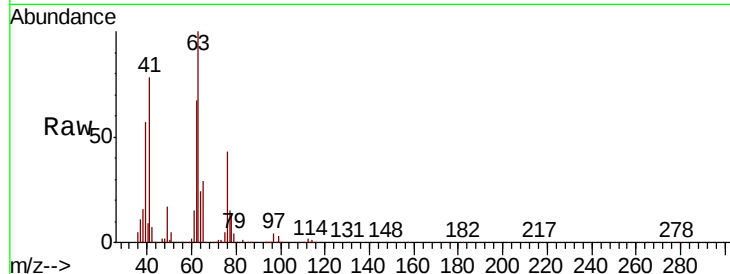
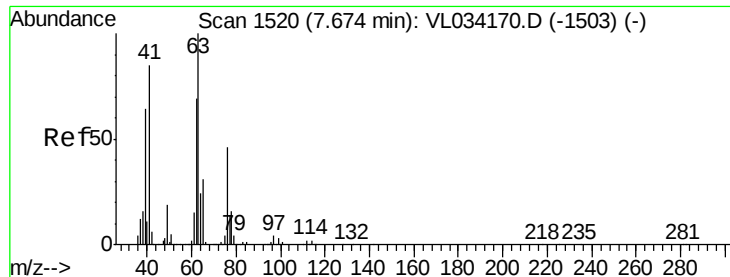
MMDadoda
 10/7/2019 12:30:43 PM



#38
 Trichloroethene
 Concen: 9.502 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	122.4	99.8	149.6
132	87.9	75.2	112.8
97	76.7	65.0	97.4





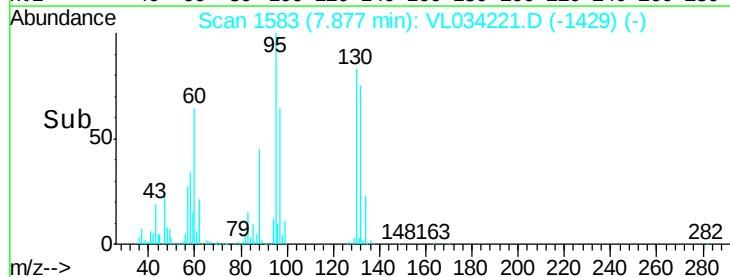
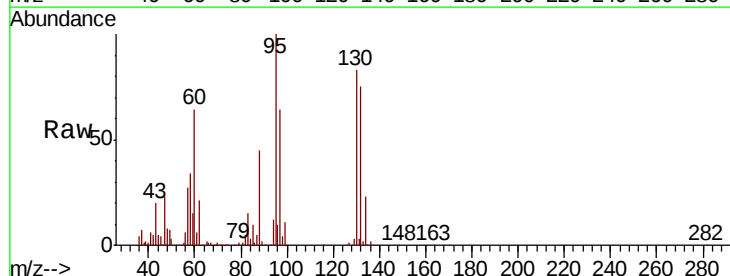
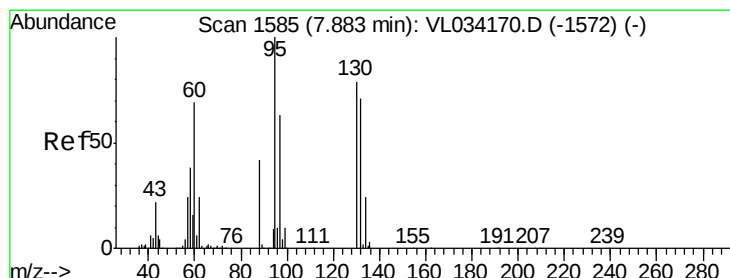
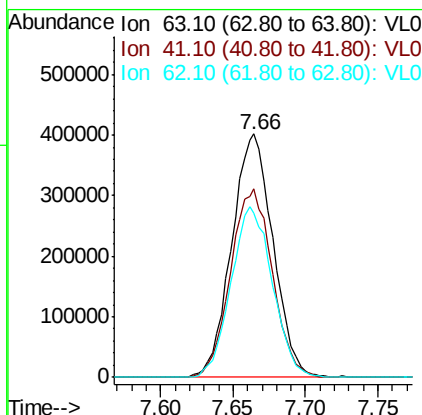
#39
 1,2-Dichloropropane
 Concen: 9.731 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tot Ion:	63	Resp:	791417
Ion Ratio	Lower	Upper	
63	100		
41	77.5	68.4	102.6
62	67.3	55.4	83.2

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

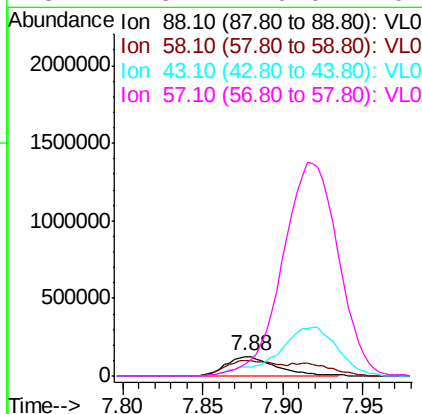
Manual Integrations
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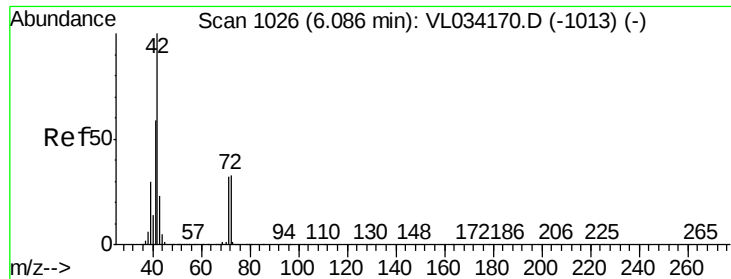
MMDadoda
 10/7/2019 12:30:43 PM



#40
 1,4-Dioxane
 Concen: 9.956 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion:	88	Resp:	262028
Ion Ratio	Lower	Upper	
88	100		
58	143.9	131.8	197.6
43	318.9	0.0	0.0#
57	1278.4	0.0	0.0#





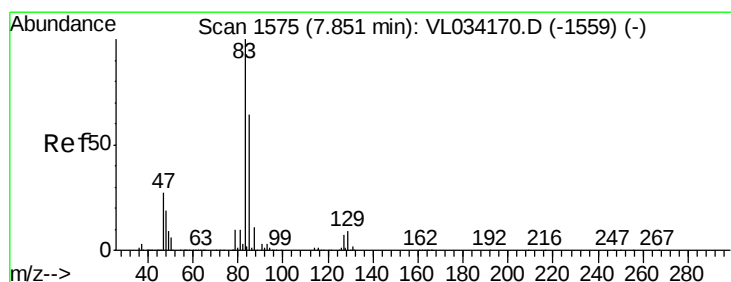
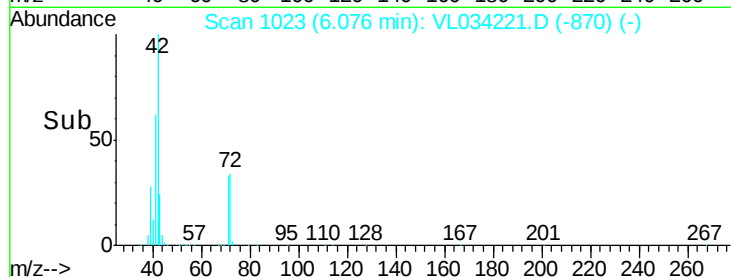
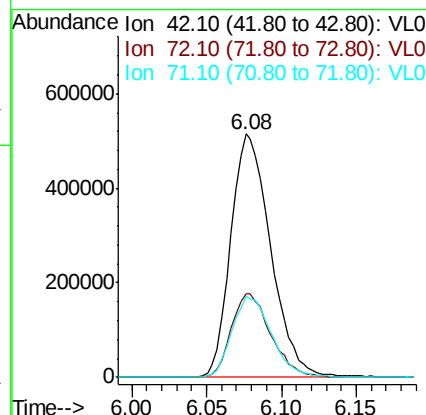
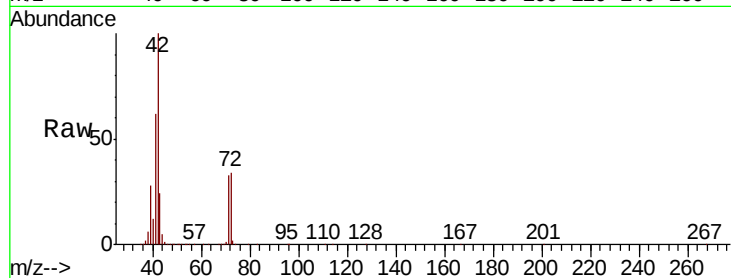
#41
Tetrahydrofuran
Concen: 10.120 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.3	26.6	40.0
71	33.1	25.1	37.7

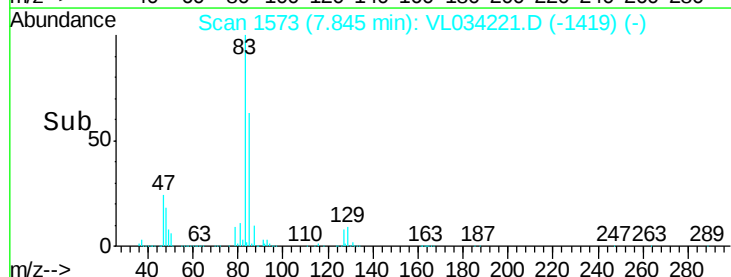
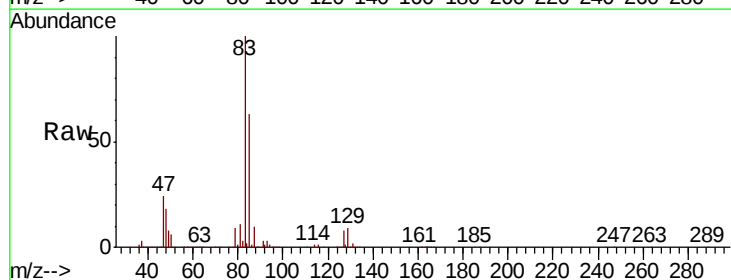
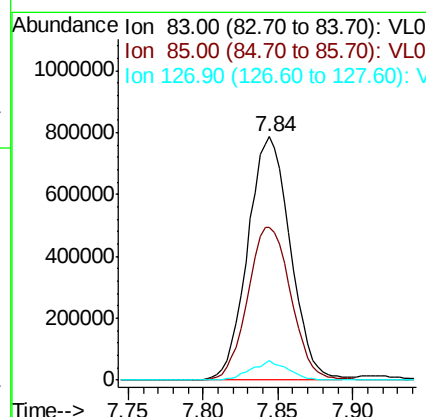
Manual Integrations
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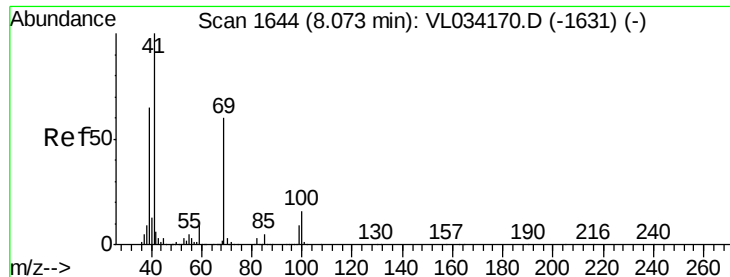
MMDadoda
10/7/2019 12:30:43 PM



#42
Bromodichloromethane
Concen: 10.070 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.4	77.0
127	7.9	5.5	8.3





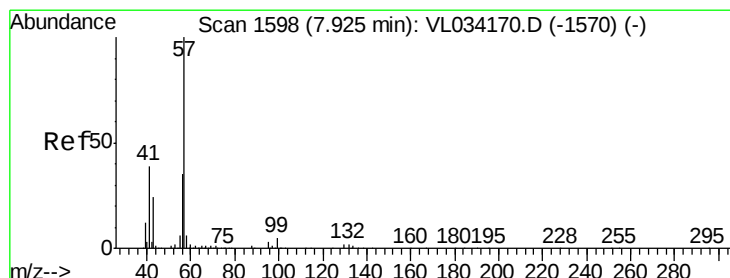
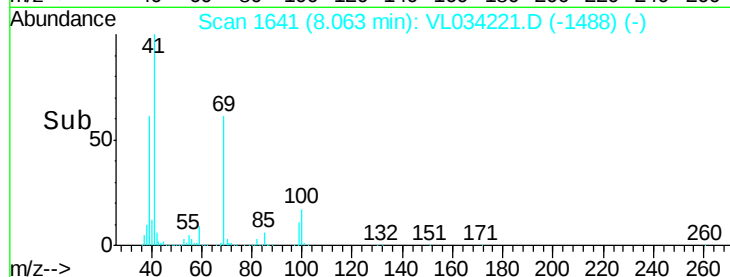
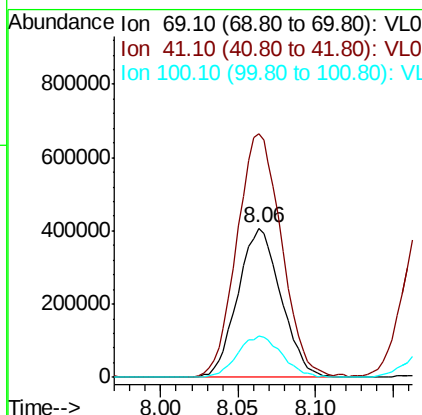
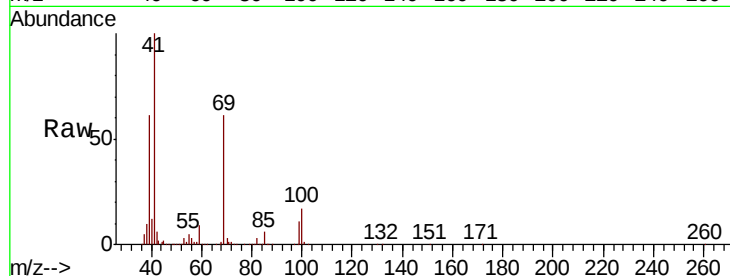
#43
Methvl Methacrylate
Concen: 10.559 ppbv
RT: 8.06 min Scan# 1641
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	168.9	140.4	210.6
100	28.8	21.9	32.9

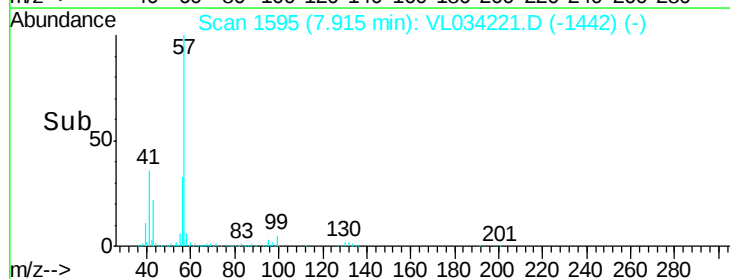
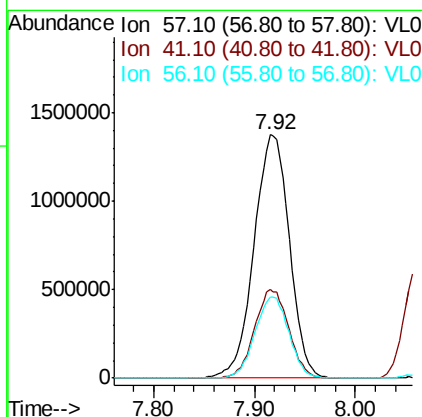
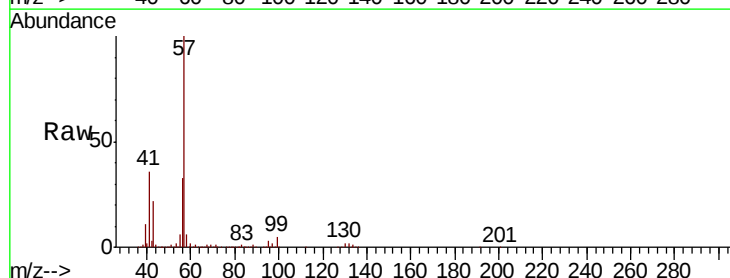
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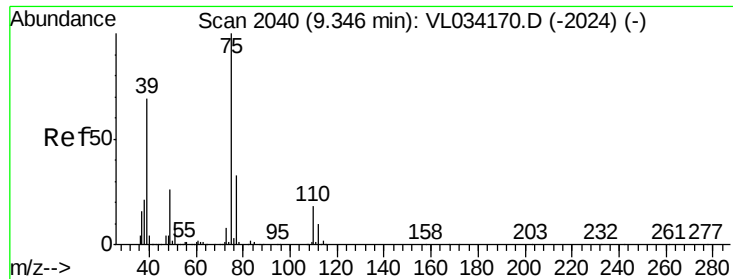
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.605 ppbv
RT: 7.92 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.1	29.8	44.6
56	32.1	25.9	38.9





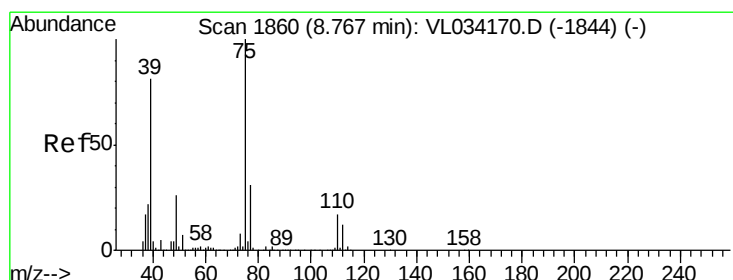
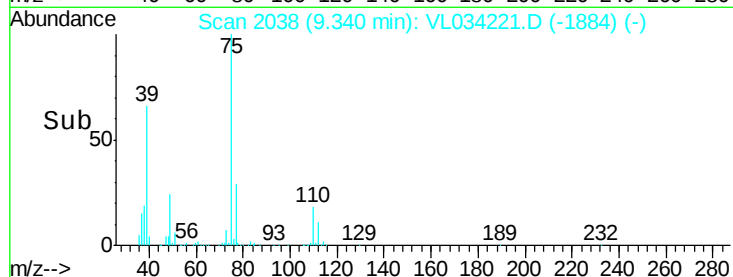
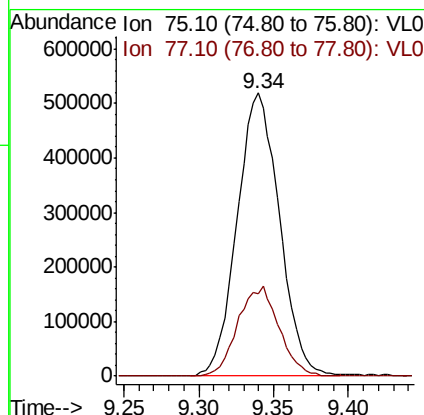
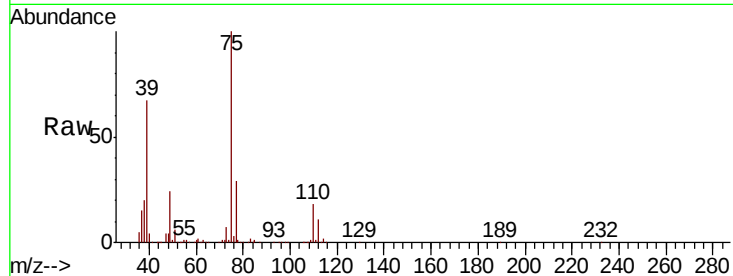
#45
t-1,3-Dichloropropene
Concen: 11.509 ppbv
RT: 9.34 min Scan# 2038
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1017586
Ion Ratio Lower Upper
75 100
77 29.1 26.2 39.2

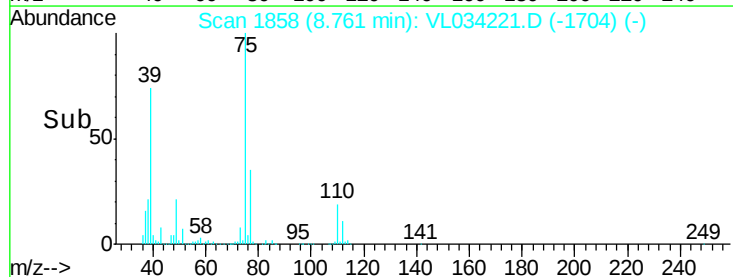
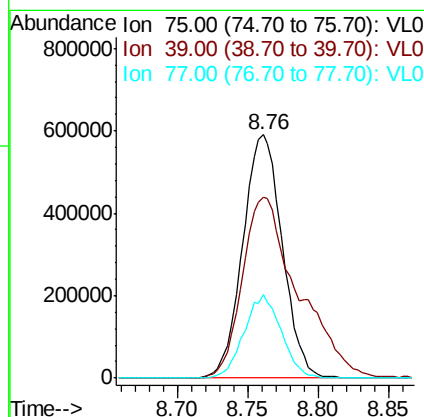
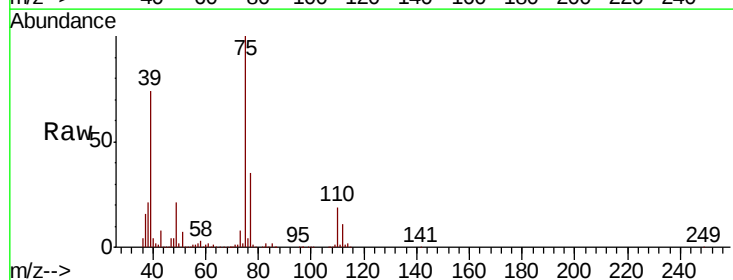
Manual Integrations
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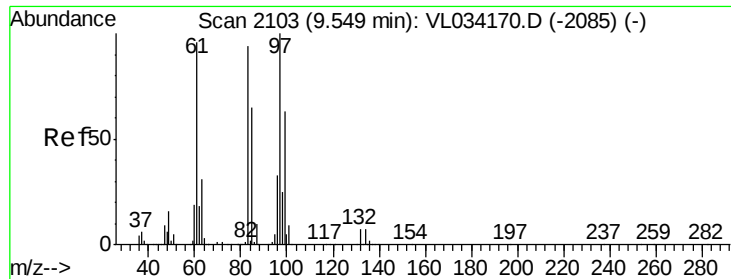
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.893 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion: 75 Resp: 1158552
Ion Ratio Lower Upper
75 100
39 73.8 65.0 97.4
77 34.6 24.5 36.7





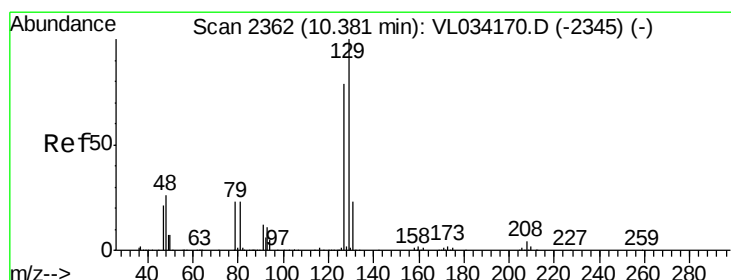
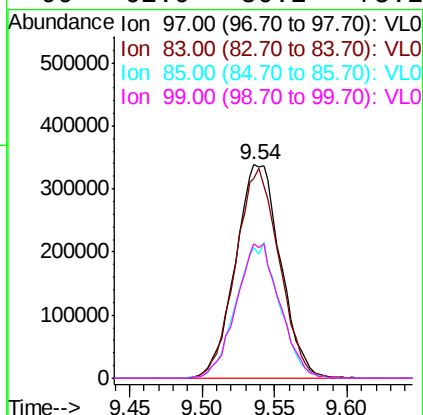
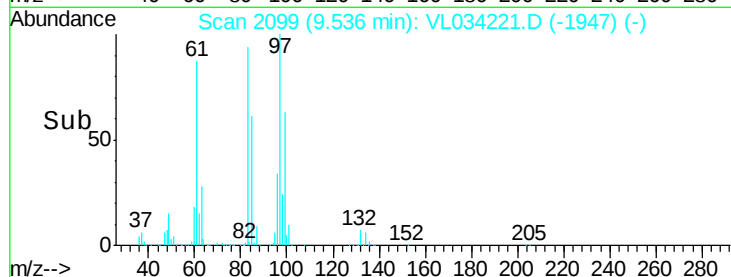
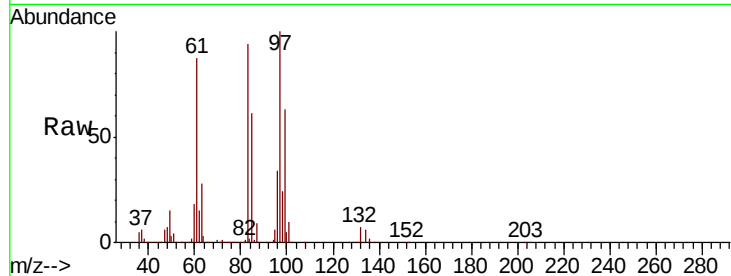
#47
 1,1,2-Trichloroethane
 Concen: 9.995 ppbv
 RT: 9.54 min Scan# 2099
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	93.5	75.3	112.9	
85	61.2	52.1	78.1	
99	62.9	50.2	75.2	

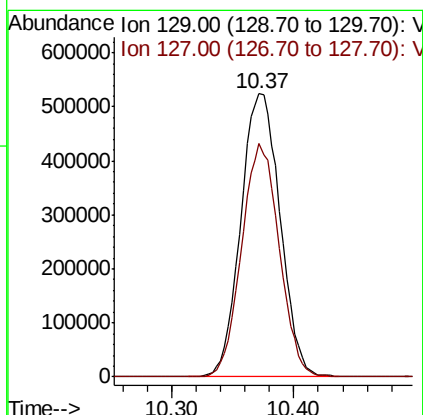
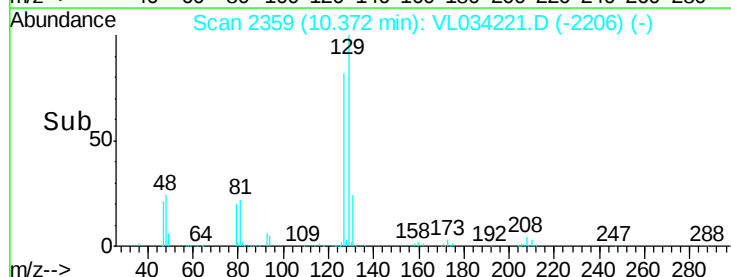
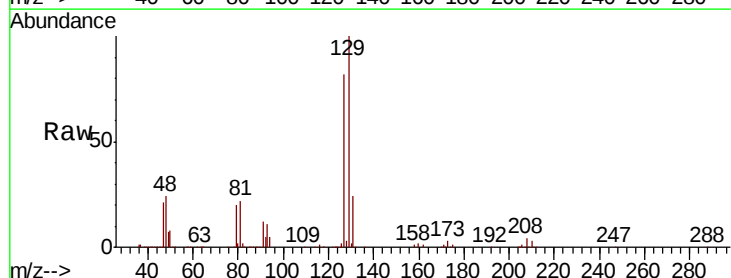
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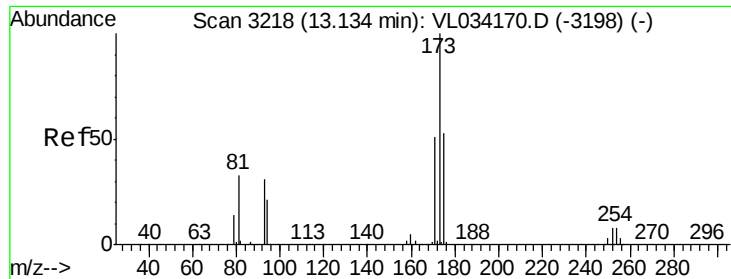
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.050 ppbv
 RT: 10.37 min Scan# 2359
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.9	39.2	117.6	





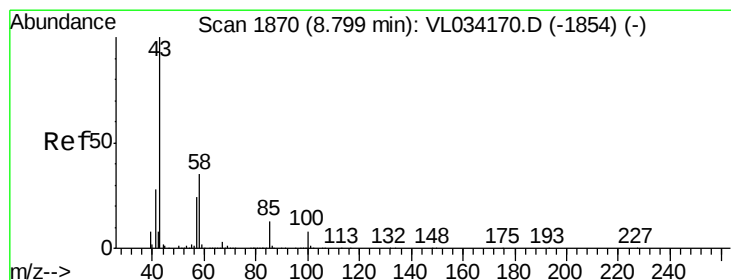
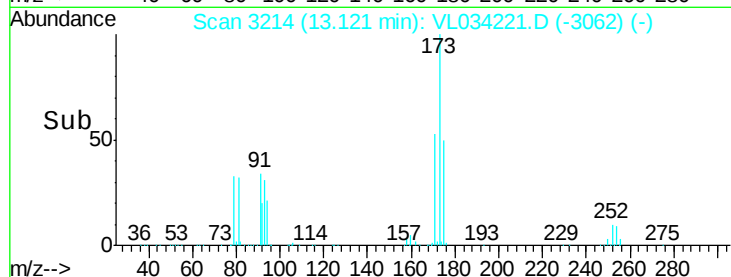
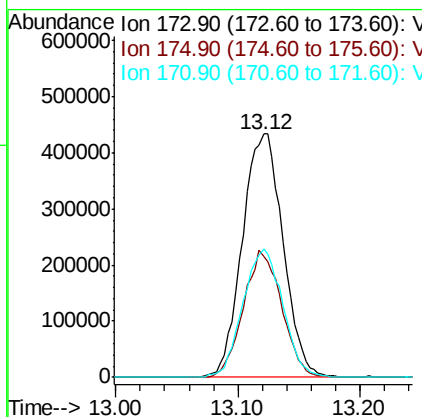
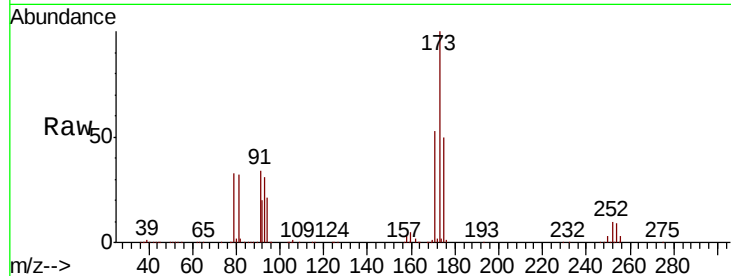
#49
Bromoform
Concen: 10.669 ppbv
RT: 13.12 min Scan# 3214
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	40.3	60.5
171	51.8	42.0	63.0

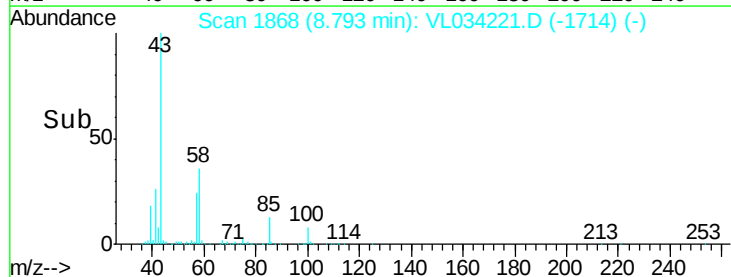
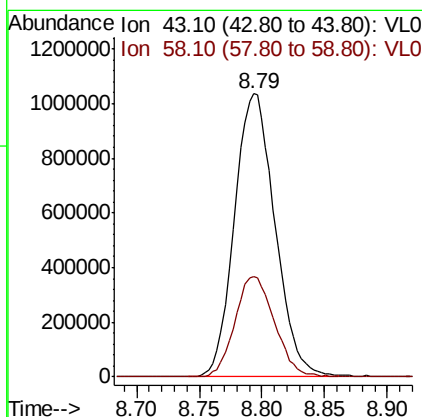
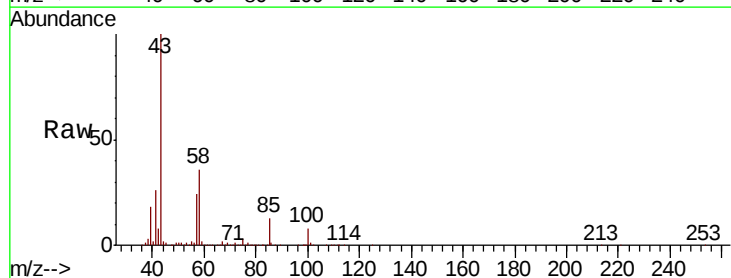
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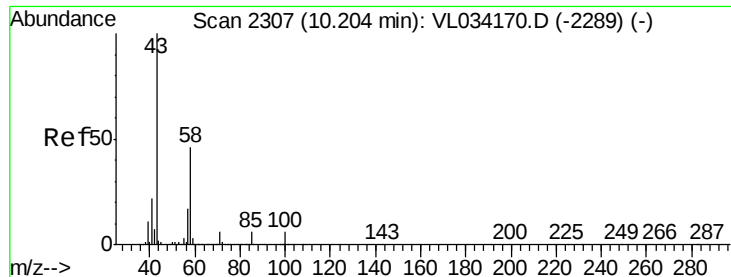
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.542 ppbv
RT: 8.79 min Scan# 1868
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.9	27.6	41.4





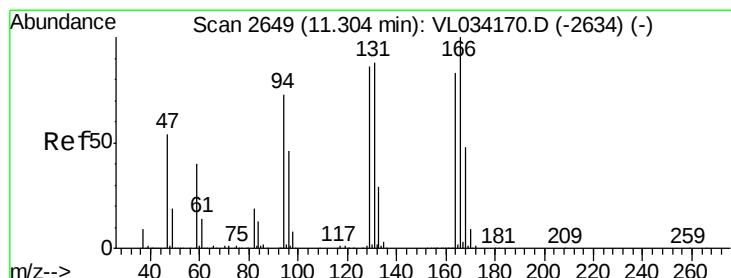
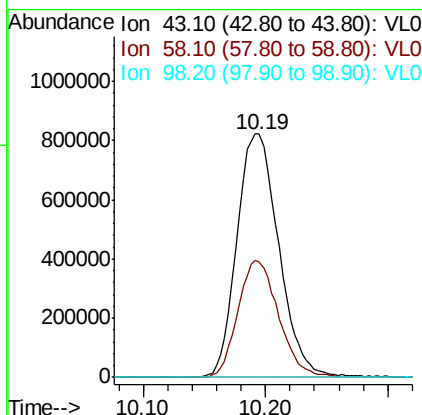
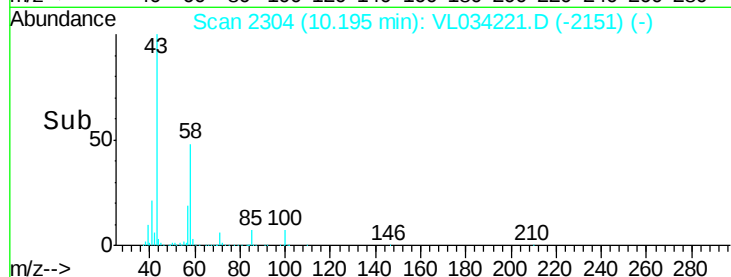
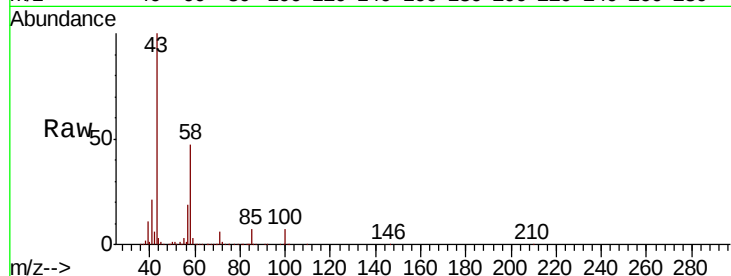
#51
2-Hexanone
Concen: 9.507 ppbv
RT: 10.19 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1943065
Ion Ratio Lower Upper
43 100
58 47.0 36.2 54.4
98 0.1 0.2 0.2#

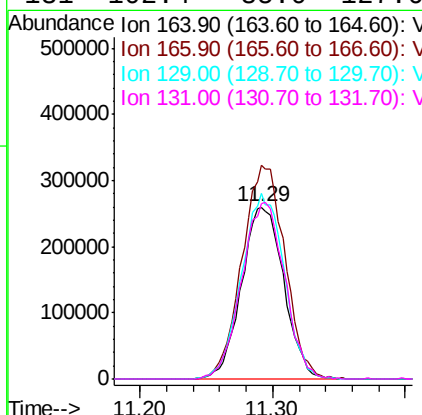
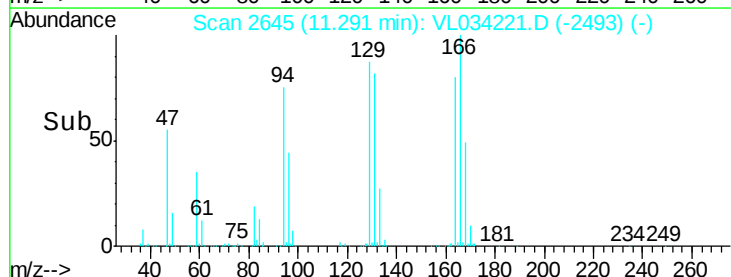
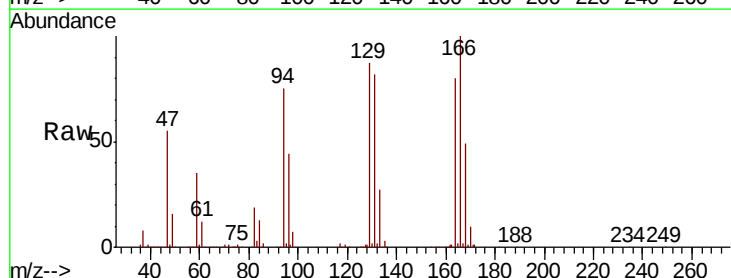
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#52
Tetrachloroethene
Concen: 9.628 ppbv
RT: 11.29 min Scan# 2645
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion: 164 Resp: 575763
Ion Ratio Lower Upper
164 100
166 124.2 96.7 145.1
129 107.7 82.8 124.2
131 102.4 85.0 127.6





#53

Toluene

Concen: 10.426 ppbv

RT: 9.87 min Scan# 2202

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2062587

Ion Ratio Lower Upper

91 100

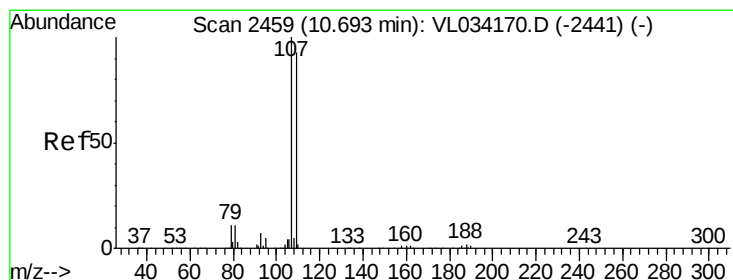
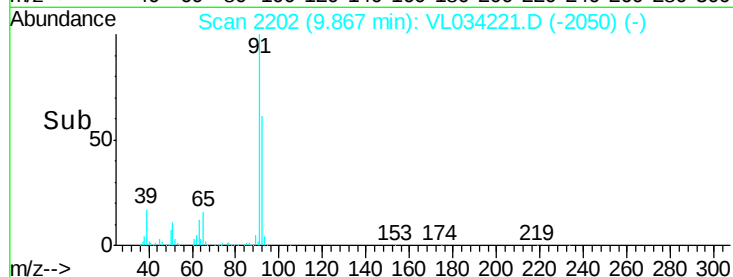
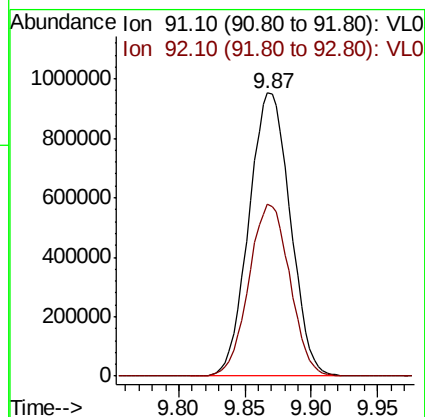
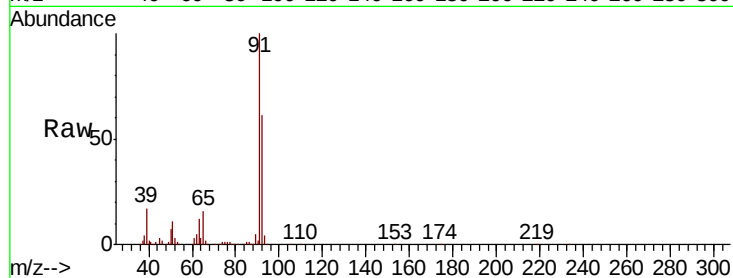
92 60.3 49.0 73.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.918 ppbv

RT: 10.68 min Scan# 2455

Delta R.T. -0.01 min

Lab File: VL034221.D

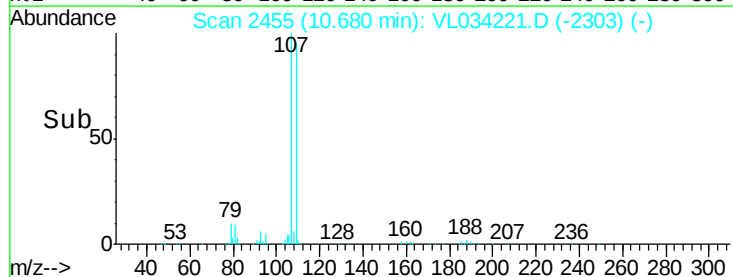
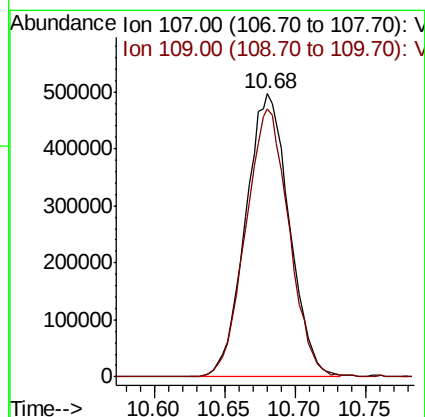
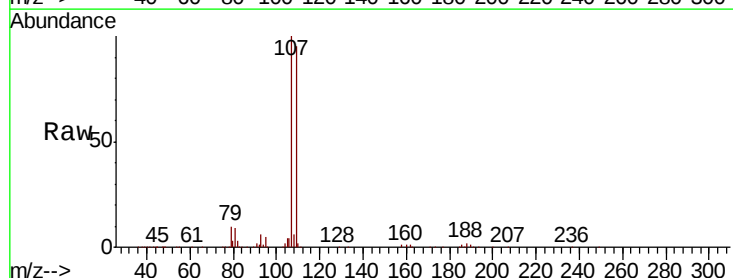
Acq: 2 Oct 2019 21:46

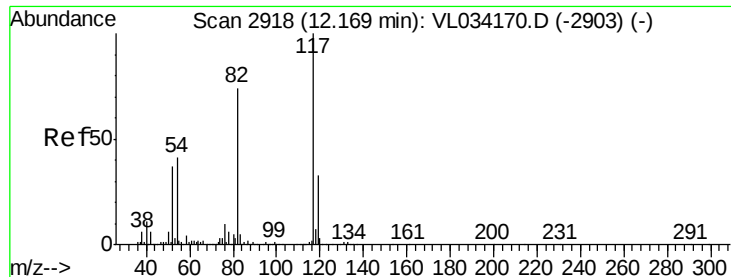
Tgt Ion: 107 Resp: 1077146

Ion Ratio Lower Upper

107 100

109 94.7 74.5 111.7





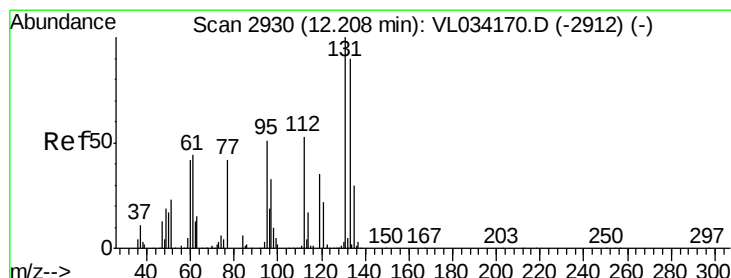
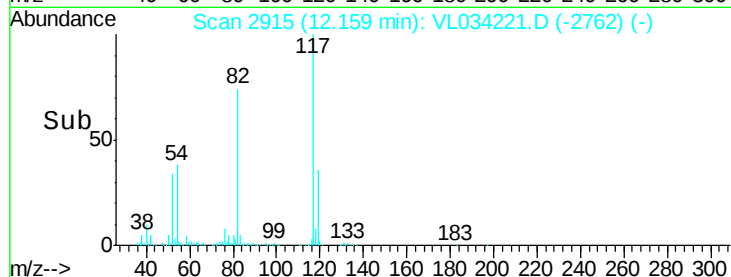
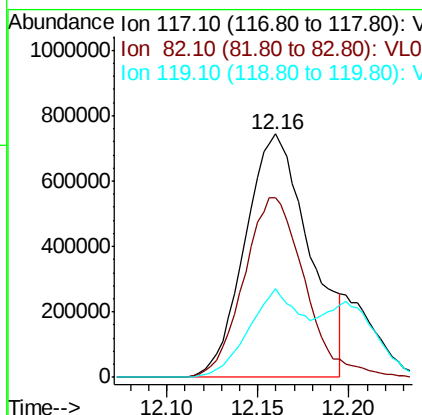
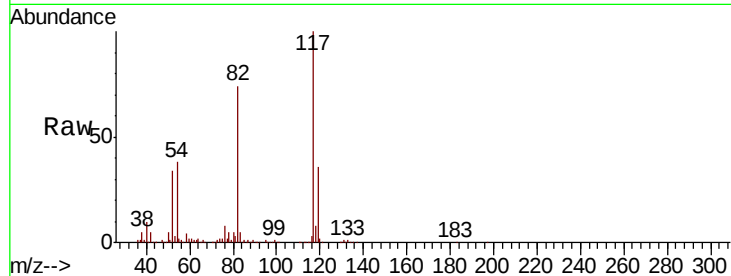
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.16 min Scan# 2915
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.3	58.2	87.4
119	27.7	23.7	35.5

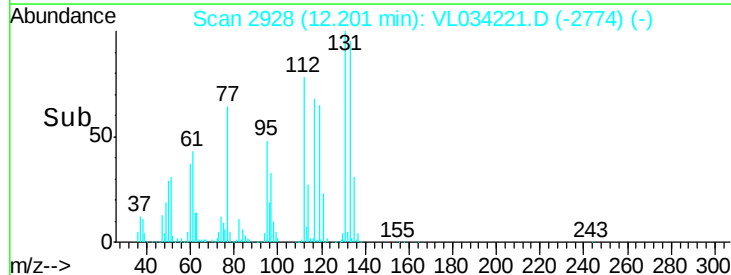
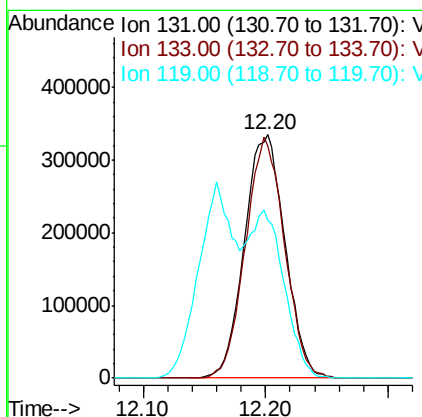
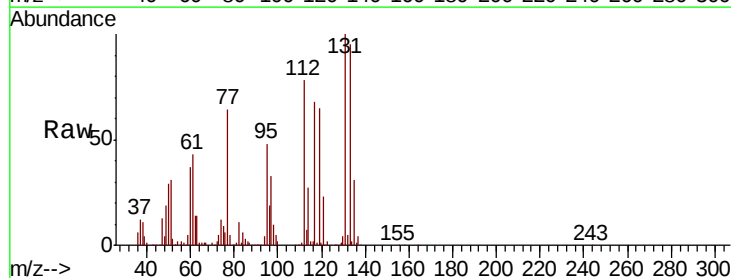
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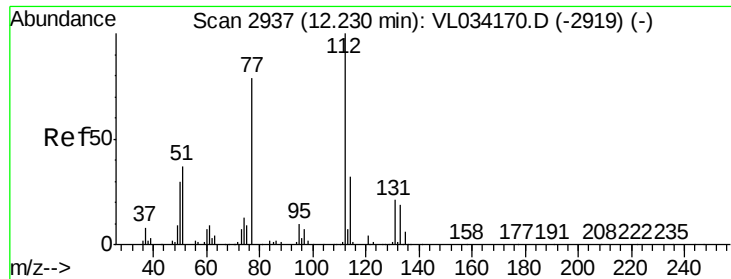
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.421 ppbv
RT: 12.20 min Scan# 2928
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	75.1	112.7
119	59.3	47.4	71.0





#57

Chlorobenzene

Concen: 8.921 ppbv

RT: 12.22 min Scan# 2934

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

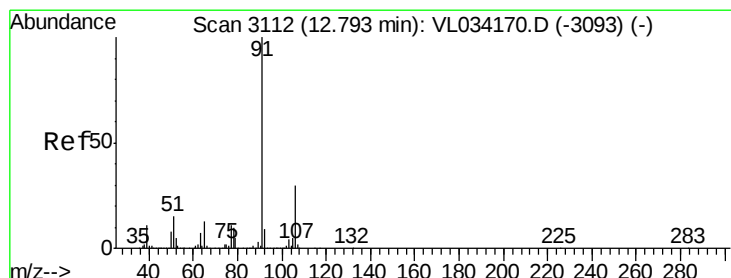
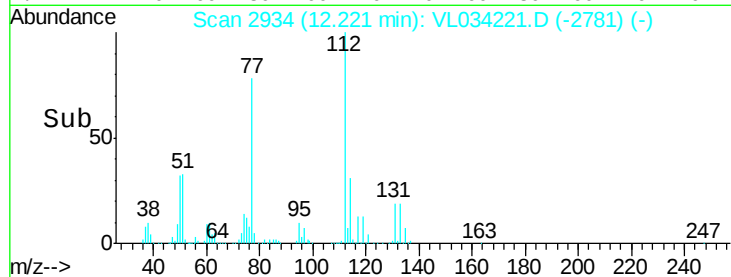
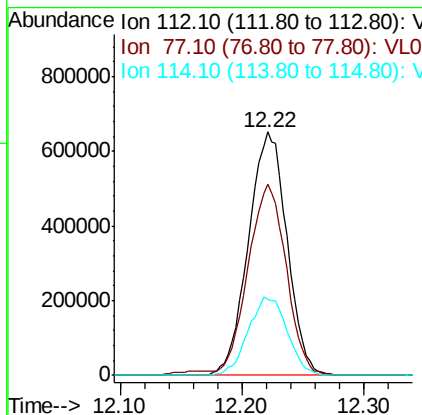
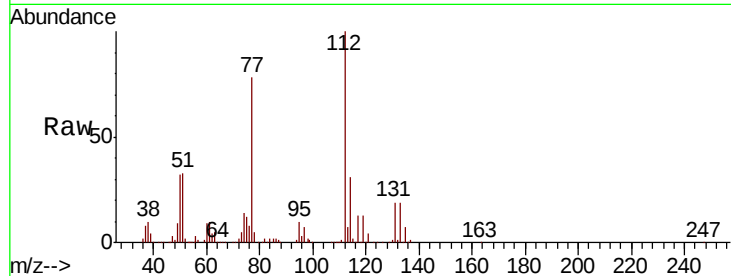
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	78.1	64.3	96.5
114	31.3	28.9	35.3

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#58

Ethyl Benzene

Concen: 9.424 ppbv

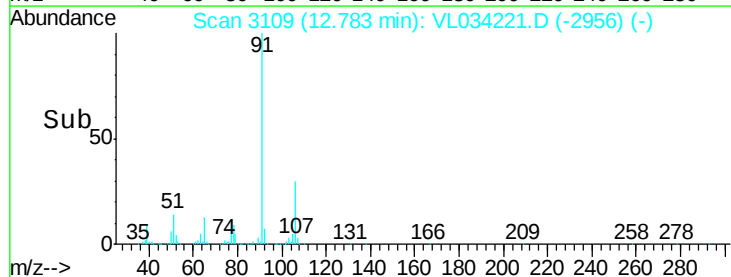
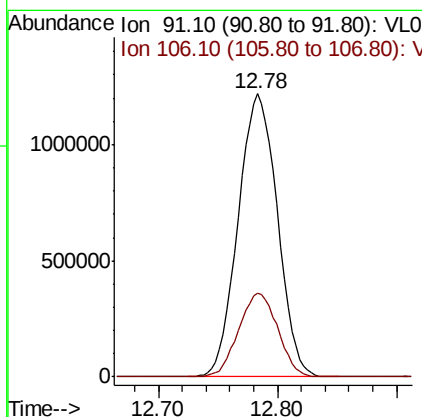
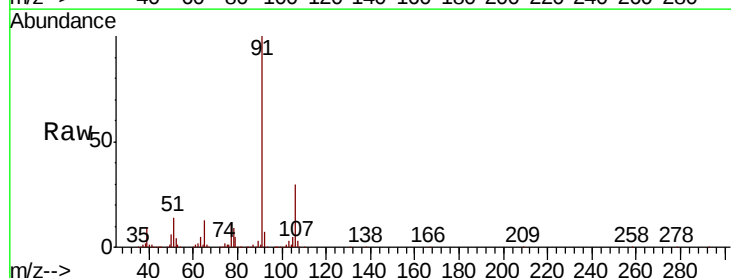
RT: 12.78 min Scan# 3109

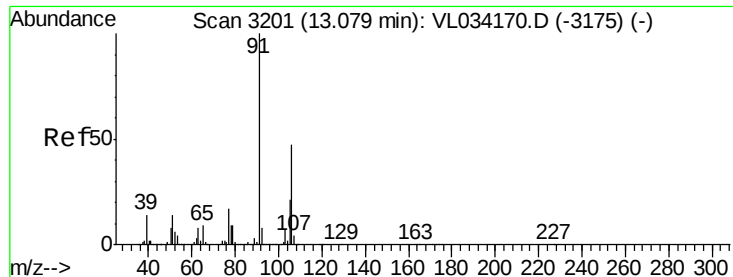
Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	24.2	36.4





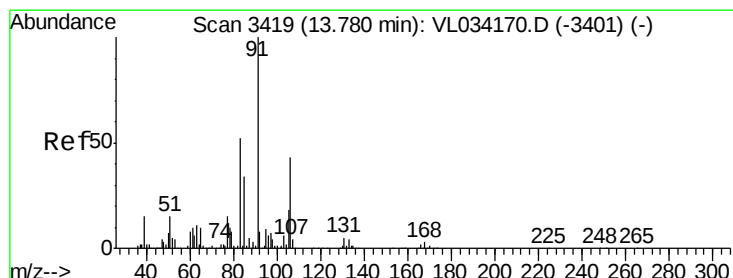
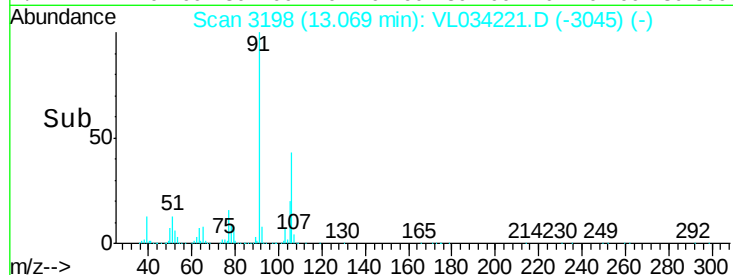
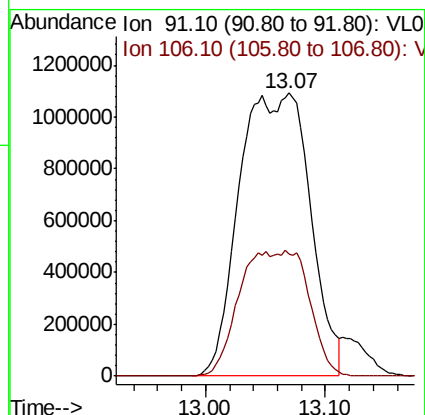
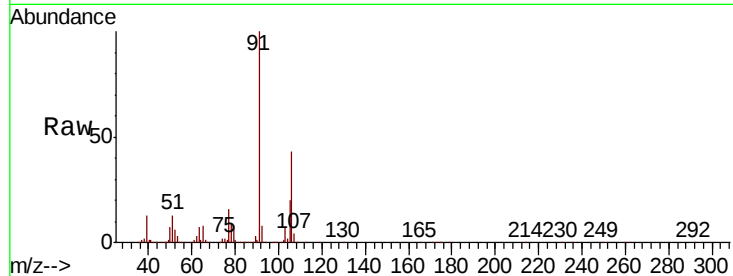
#59
m/p-Xylene
Concen: 18.323 ppbv m
RT: 13.07 min Scan# 3198
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4485661
Ion Ratio Lower Upper
91 100
106 43.5 35.5 53.3

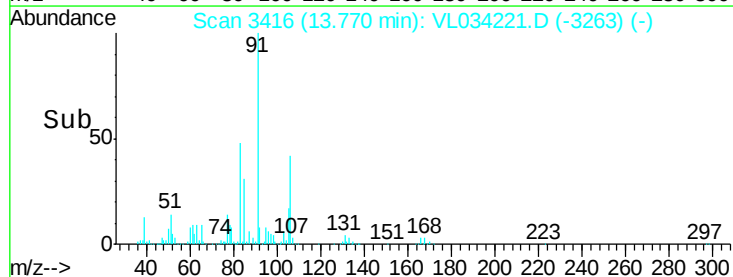
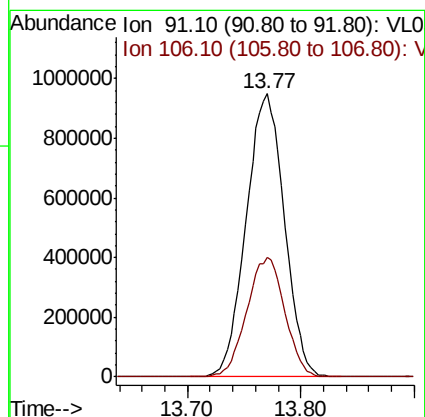
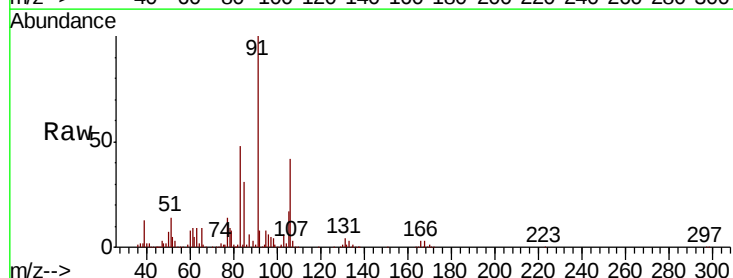
Manual Integrations
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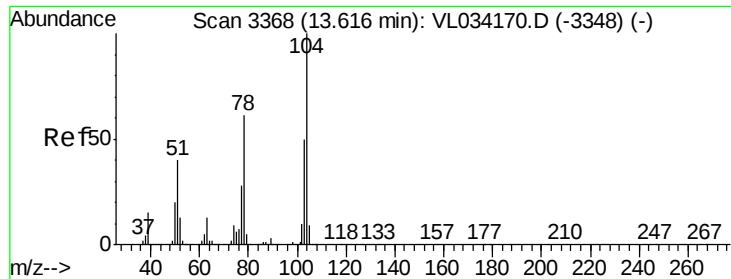
MMDadoda
10/7/2019 12:30:43 PM



#60
o-Xylene
Concen: 9.087 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion: 91 Resp: 2224425
Ion Ratio Lower Upper
91 100
106 42.0 21.2 63.6





#61

Stvrene

Concen: 9.565 ppbv

RT: 13.60 min Scan# 3364

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1677226

Ion Ratio Lower Upper

104 100

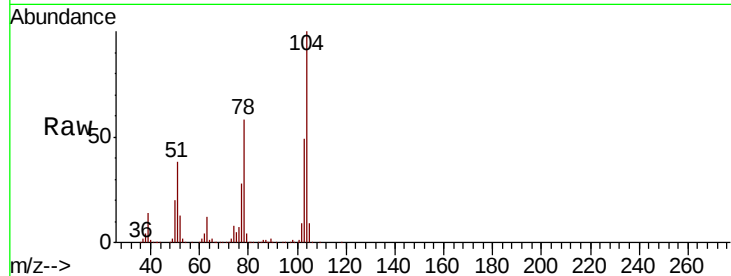
78 59.7 49.7 74.5

103 47.9 38.4 57.6

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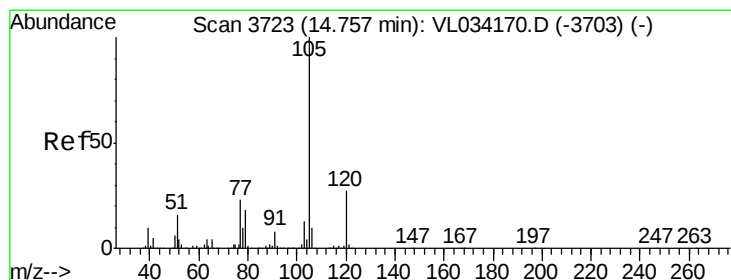
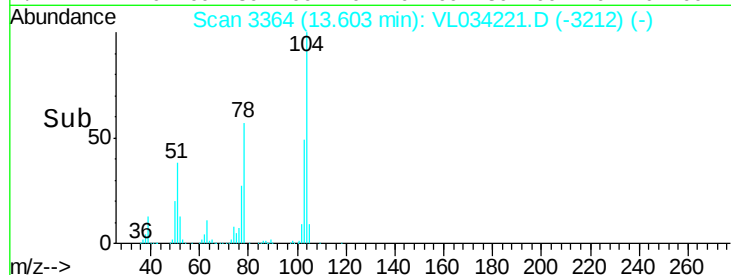
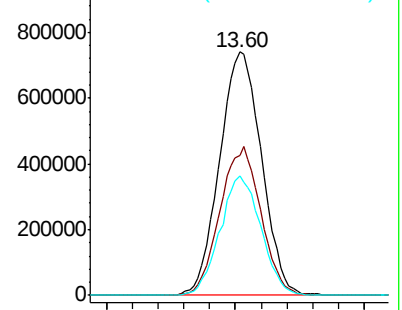
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.110 ppbv

RT: 14.74 min Scan# 3719

Delta R.T. -0.01 min

Lab File: VL034221.D

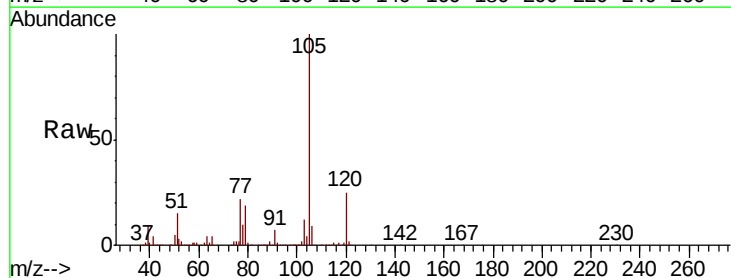
Acq: 2 Oct 2019 21:46

Tgt Ion:105 Resp: 2886817

Ion Ratio Lower Upper

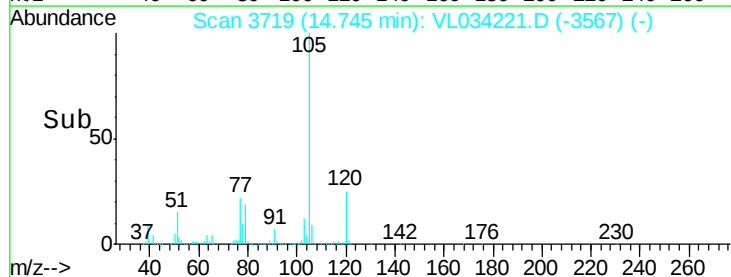
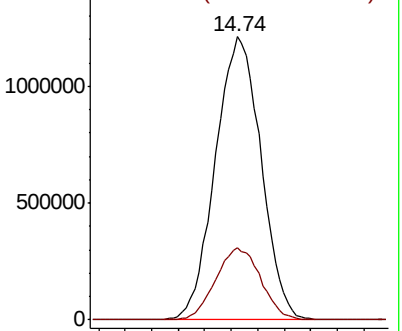
105 100

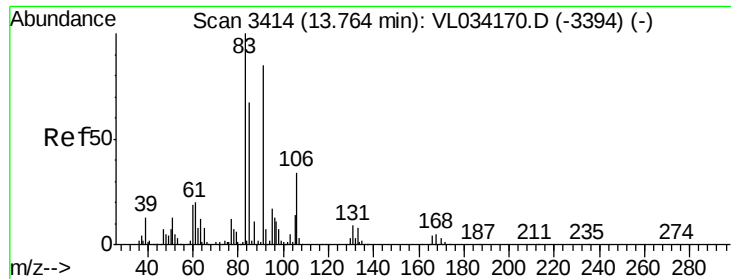
120 25.2 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





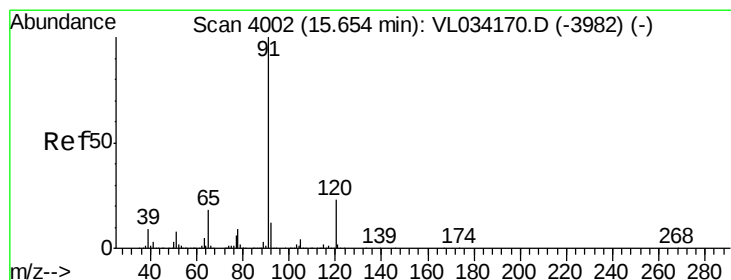
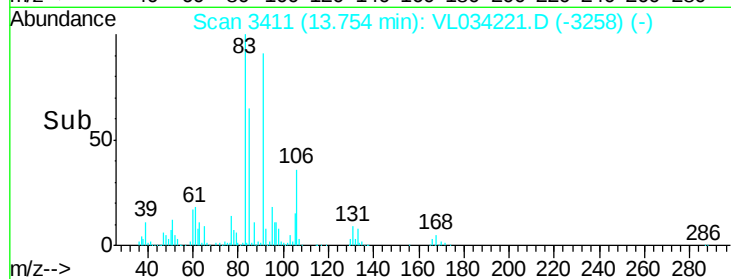
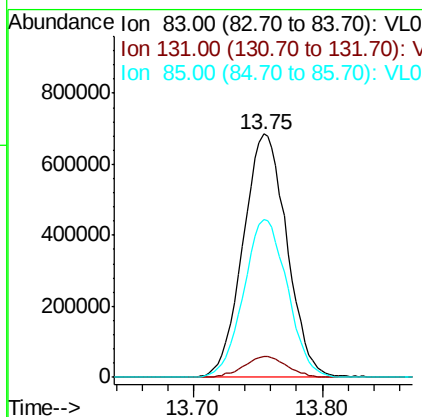
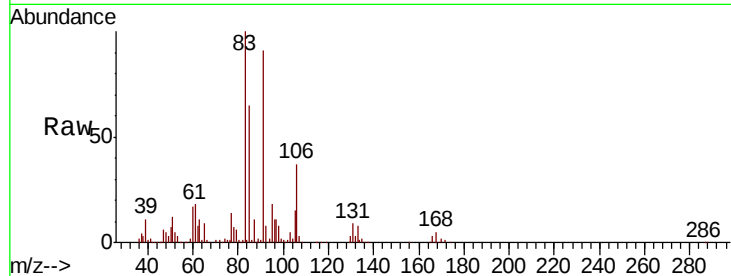
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.068 ppbv
 RT: 13.75 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1619528
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.3	12.8
85	65.0	32.8	98.4

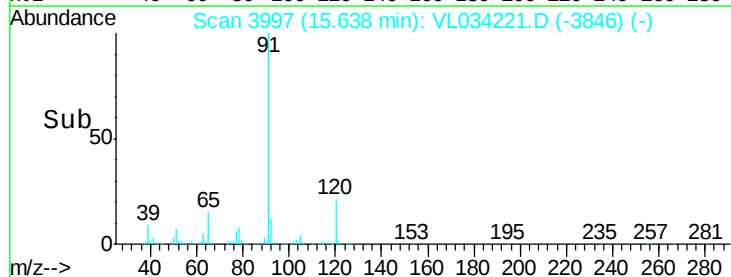
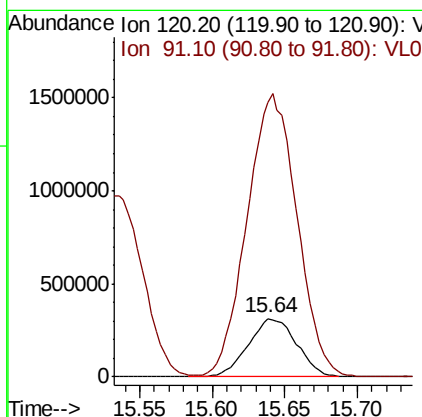
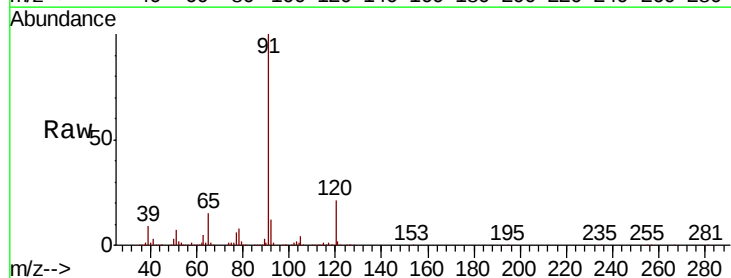
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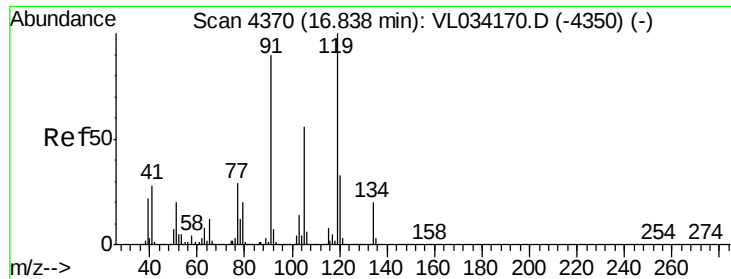
MMDadoda
 10/7/2019 12:30:43 PM



#64
 n-propylbenzene
 Concen: 9.103 ppbv
 RT: 15.64 min Scan# 3997
 Delta R.T. -0.02 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion	120	Resp	729803
Ion Ratio	Lower	Upper	
120	100		
91	501.3	378.2	567.2





#65

tert-Butylbenzene

Concen: 8.830 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2445026

Ion Ratio Lower Upper

119 100

91 91.7 74.9 112.3

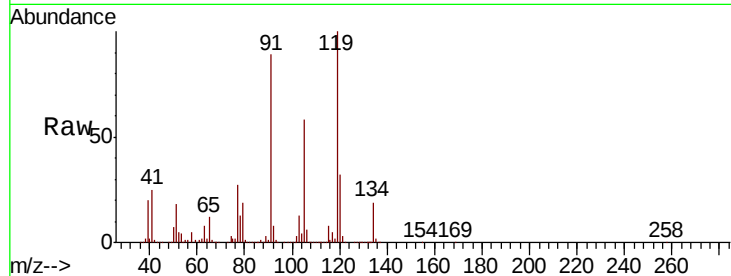
134 19.0 15.8 23.6

Manual Integrations

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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

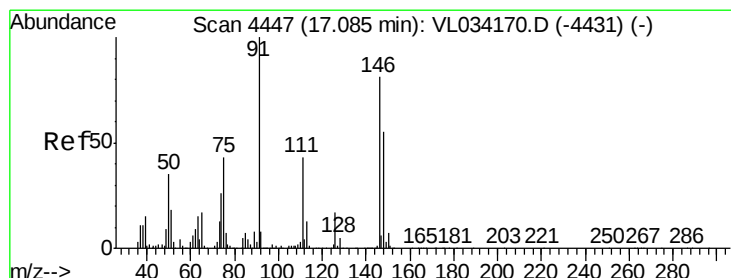
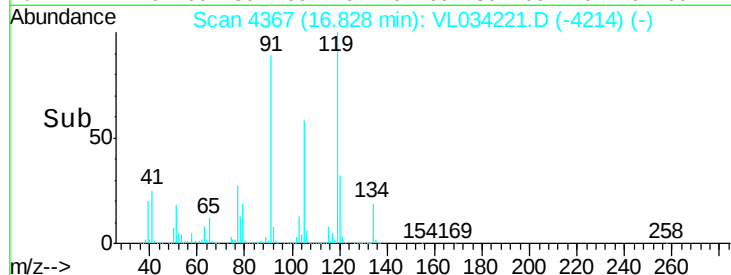
400000

200000

0

16.70 16.80 16.90

Time-->



#66

Benzyl Chloride

Concen: 11.667 ppbv

RT: 17.08 min Scan# 4444

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

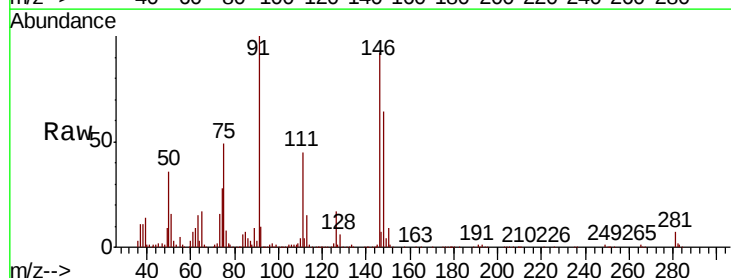
Tgt Ion: 91 Resp: 1142871

Ion Ratio Lower Upper

91 100

126 15.6 12.6 19.0

128 5.0 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

600000

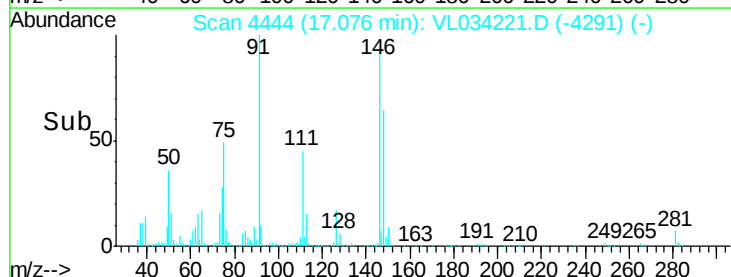
400000

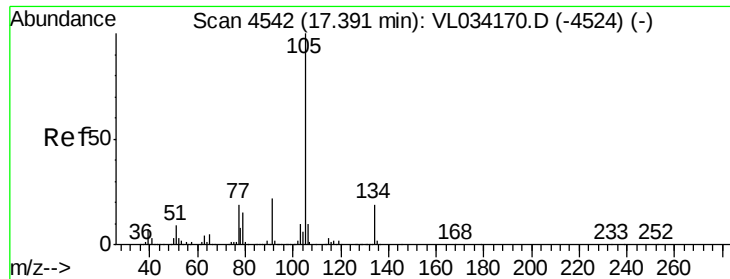
200000

0

17.00 17.10

Time-->





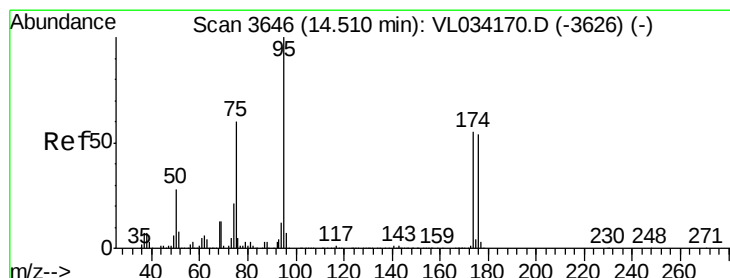
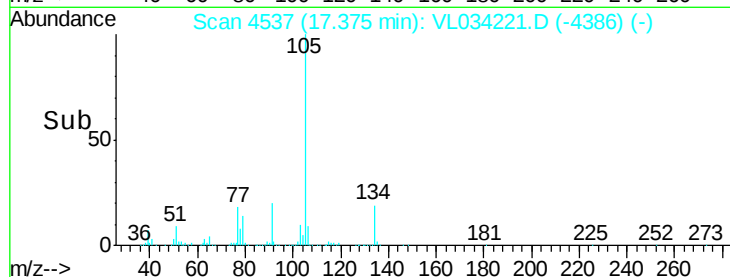
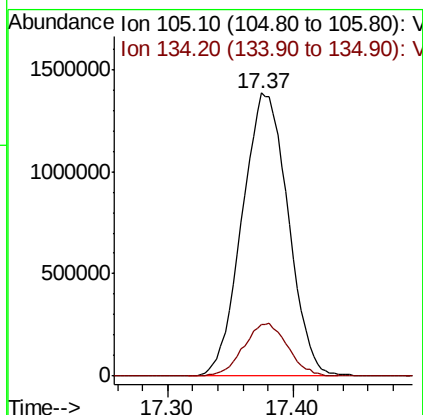
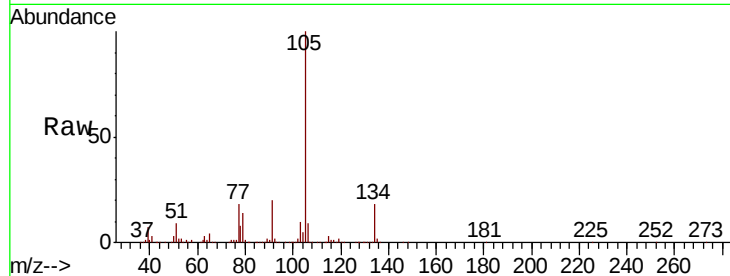
#67
 sec-Butylbenzene
 Concen: 8.897 ppbv
 RT: 17.37 min Scan# 4537
 Delta R.T. -0.02 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 3522764
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.6 22.0

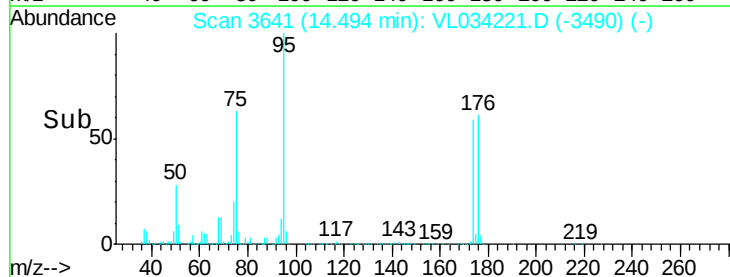
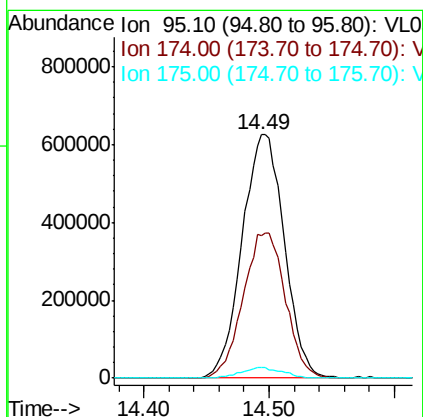
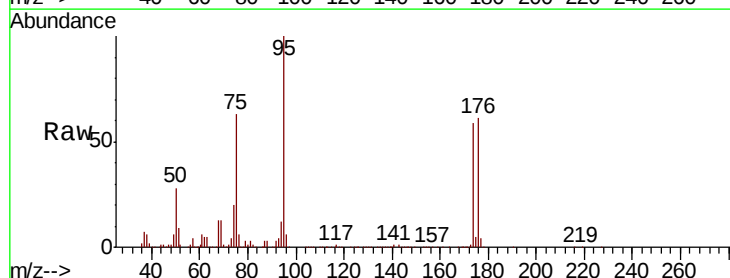
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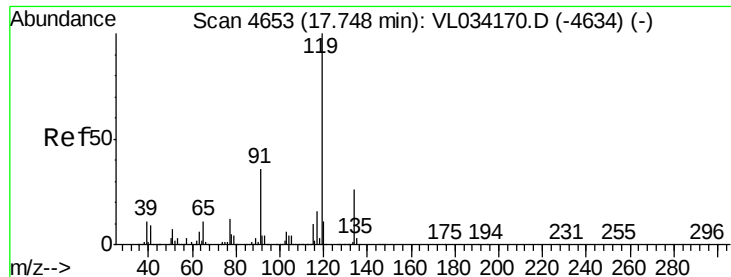
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.188 ppbv
 RT: 14.49 min Scan# 3641
 Delta R.T. -0.02 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion: 95 Resp: 1462421
 Ion Ratio Lower Upper
 95 100
 174 59.7 45.1 67.7
 175 4.3 3.3 4.9





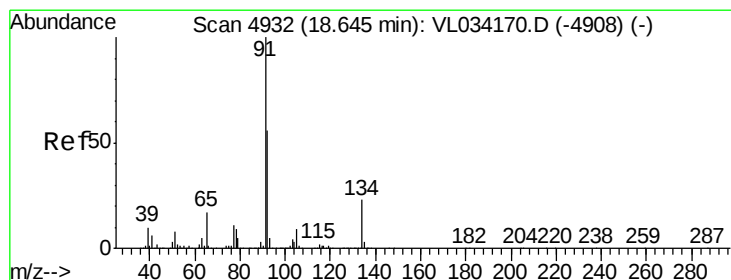
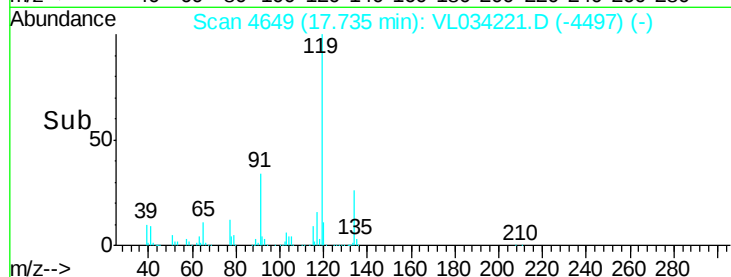
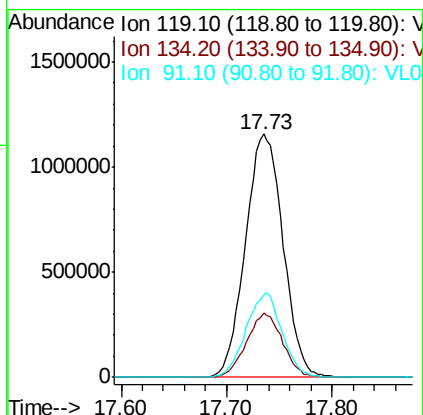
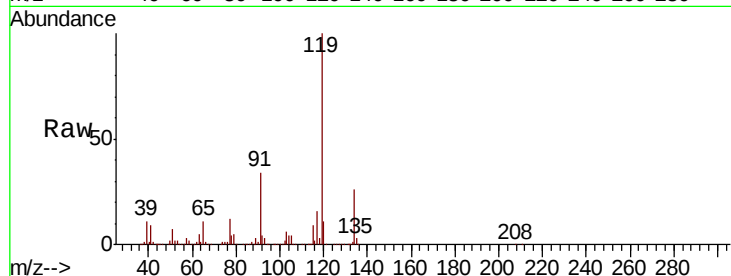
#69
p-Isopropyltoluene
Concen: 8.969 ppbv
RT: 17.73 min Scan# 4649
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	30.8
91	33.2	27.6	41.4

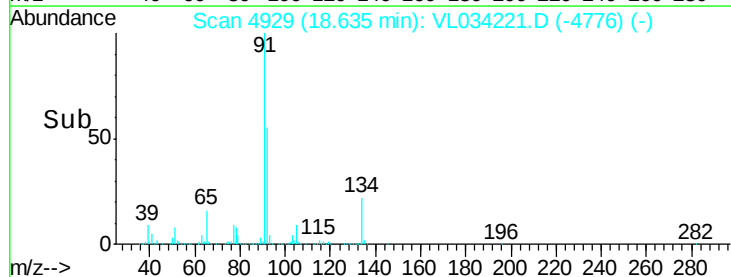
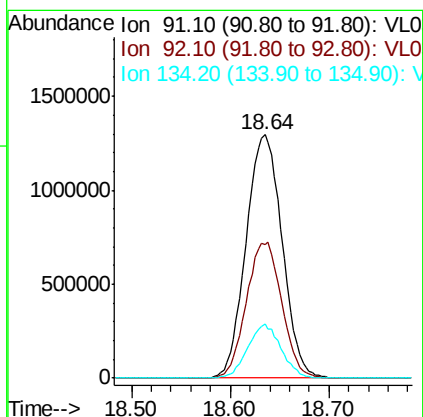
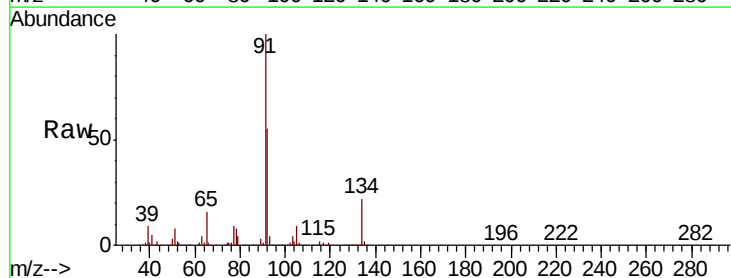
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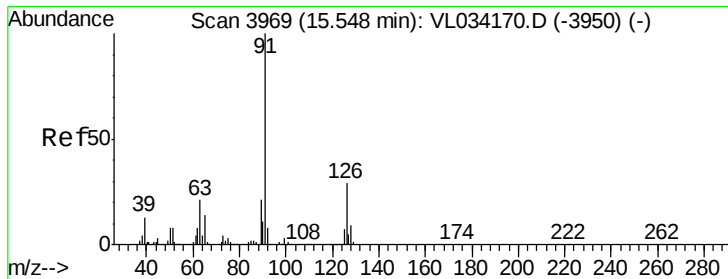
MMDadoda
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#70
n-Butylbenzene
Concen: 8.742 ppbv
RT: 18.64 min Scan# 4929
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.8	67.2
134	20.7	17.3	25.9





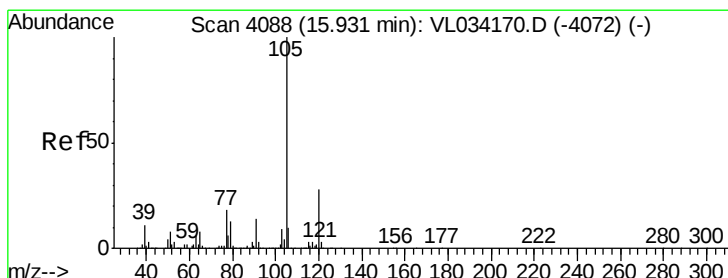
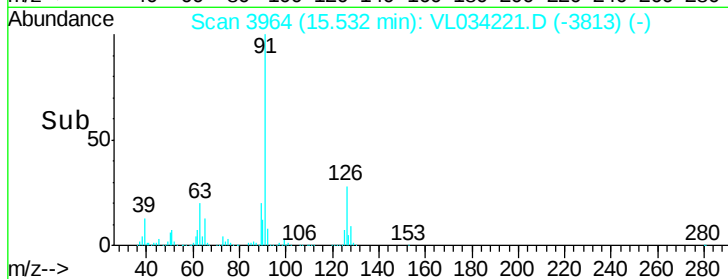
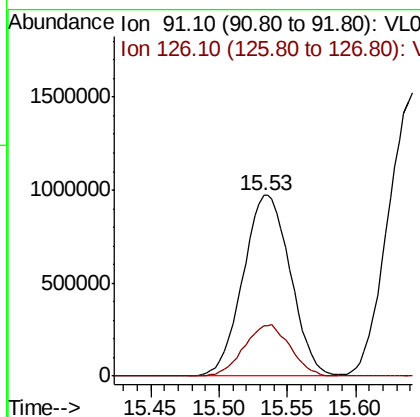
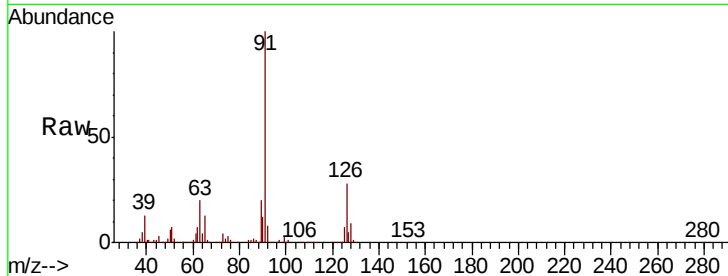
#71
 2-Chlorotoluene
 Concen: 9.029 ppbv
 RT: 15.53 min Scan# 3964
 Delta R.T. -0.02 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2337632
 Ion Ratio Lower Upper
 91 100
 126 27.8 11.2 45.0

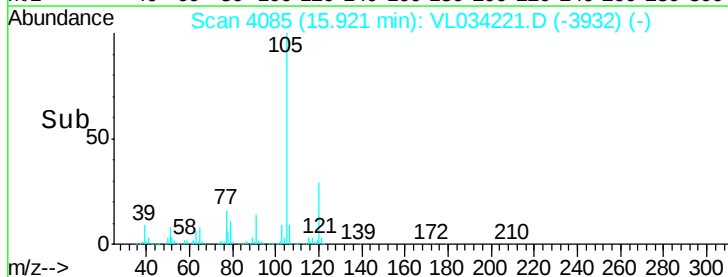
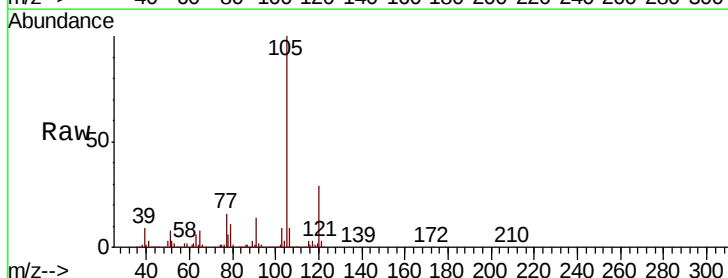
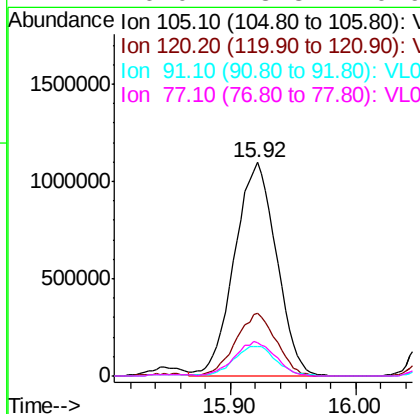
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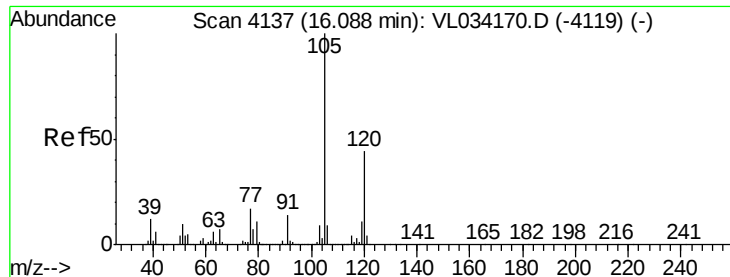
MMDadoda
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#72
 4-Ethyltoluene
 Concen: 9.212 ppbv
 RT: 15.92 min Scan# 4085
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion:105 Resp: 2547843
 Ion Ratio Lower Upper
 105 100
 120 28.4 23.3 34.9
 91 14.7 11.4 17.2
 77 16.0 13.3 19.9





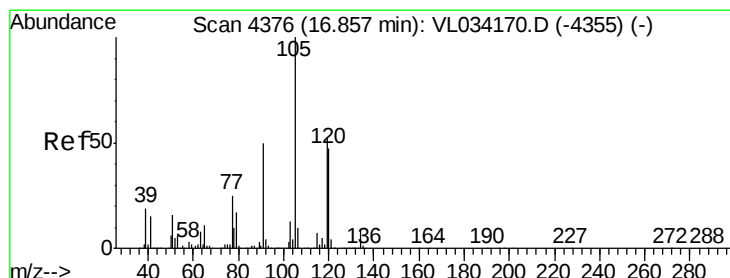
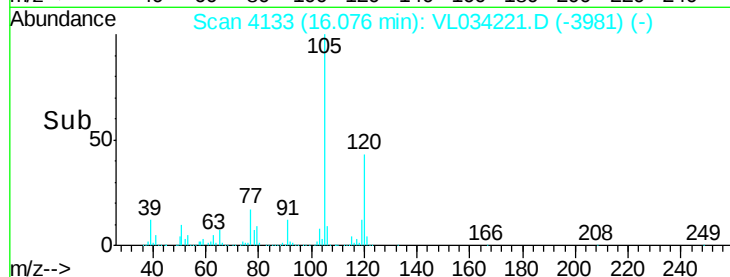
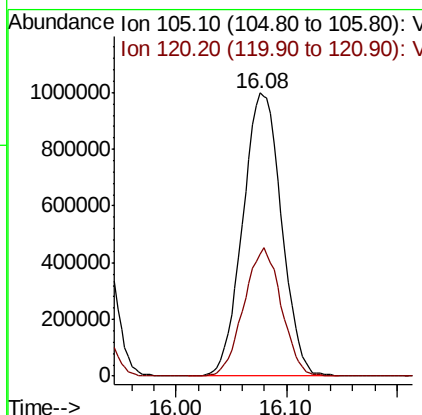
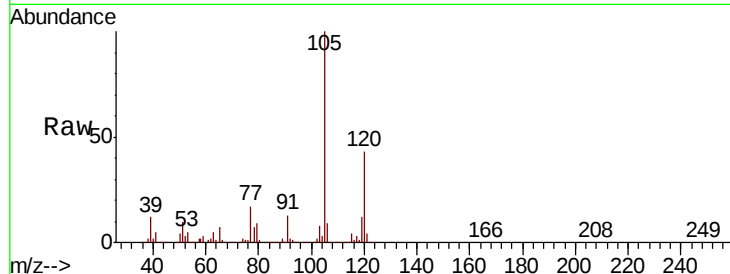
#73
 1,3,5-Trimethylbenzene
 Concen: 9.081 ppbv
 RT: 16.08 min Scan# 4133
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2426310
 Ion Ratio Lower Upper
 105 100
 120 43.1 35.6 53.4

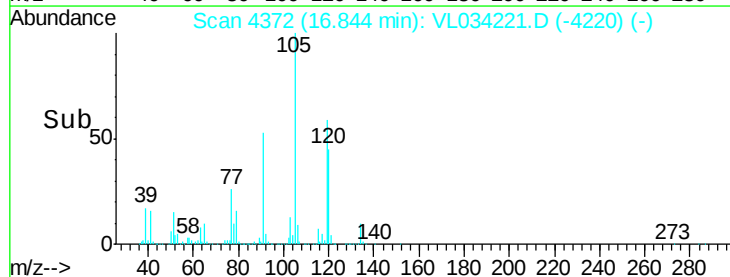
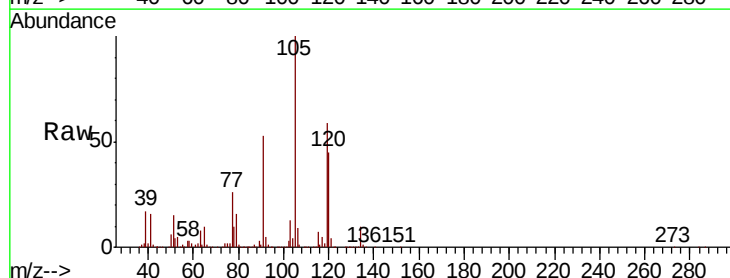
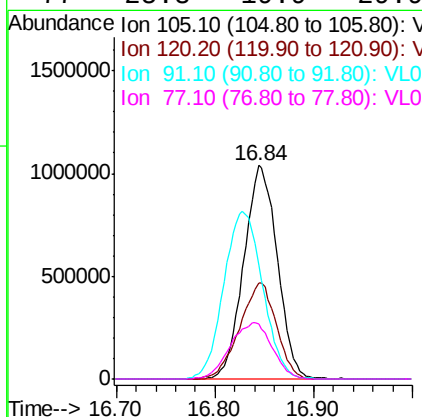
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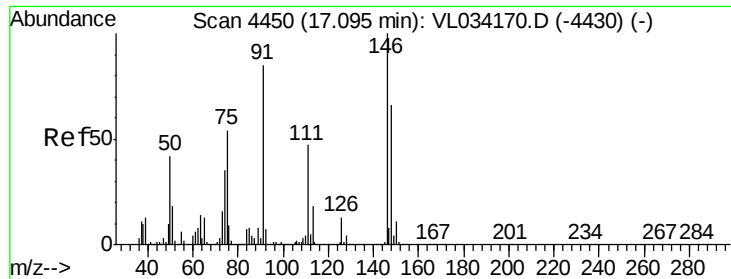
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.612 ppbv
 RT: 16.84 min Scan# 4372
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion:105 Resp: 2443159
 Ion Ratio Lower Upper
 105 100
 120 44.7 37.5 56.3
 91 53.3 41.1 61.7
 77 25.8 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 8.626 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1313040

Ion Ratio Lower Upper

146 100

111 49.5 25.9 77.8

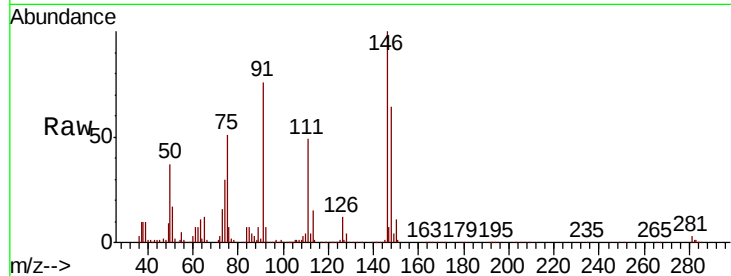
148 64.3 32.6 97.7

Manual Integrations

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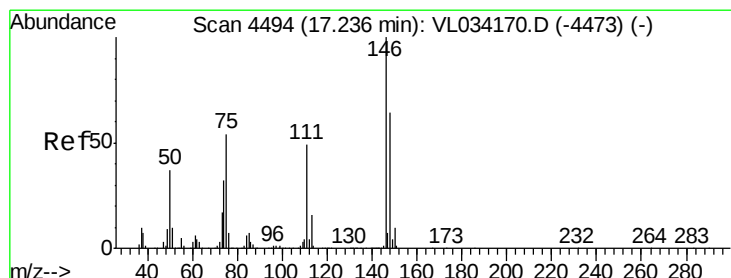
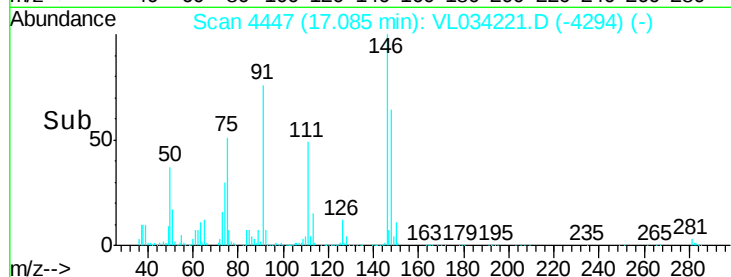
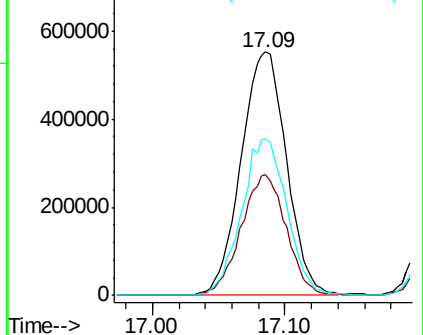
10/7/2019 12:30:43 PM



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: 8.607 ppbv

RT: 17.23 min Scan# 4492

Delta R.T. -0.01 min

Lab File: VL034221.D

Acq: 2 Oct 2019 21:46

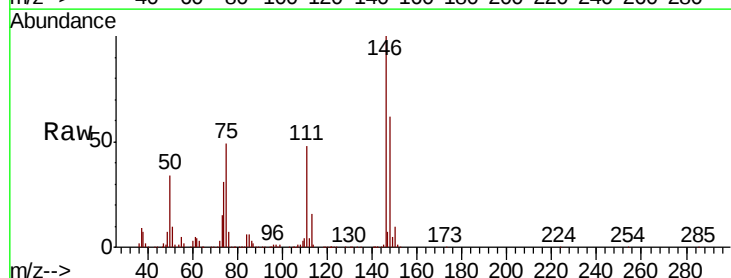
Tgt Ion:146 Resp: 1341619

Ion Ratio Lower Upper

146 100

111 49.1 24.6 74.0

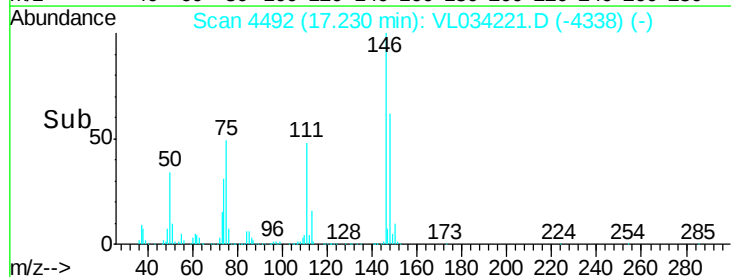
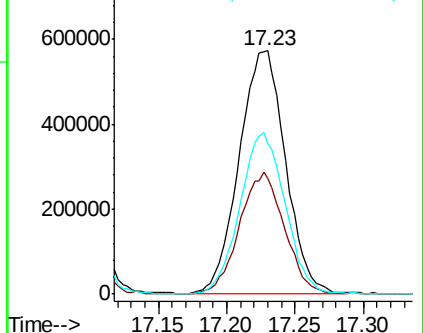
148 64.6 32.4 97.0

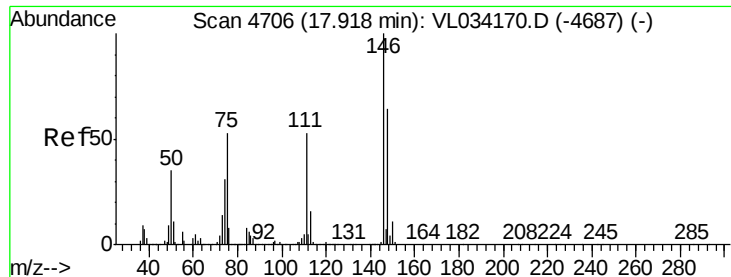


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





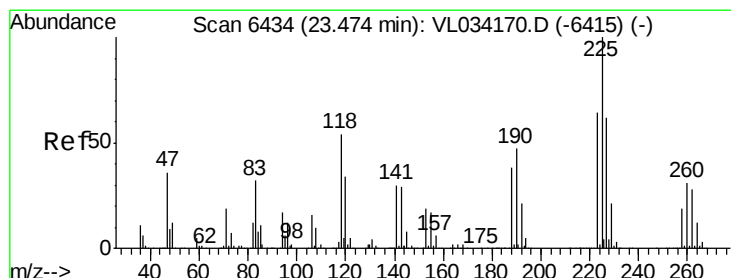
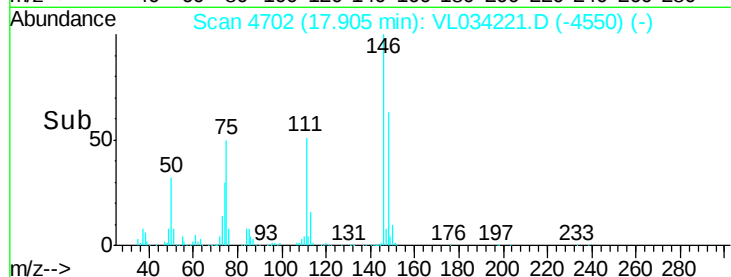
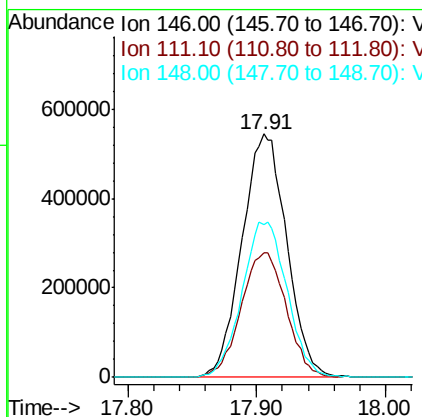
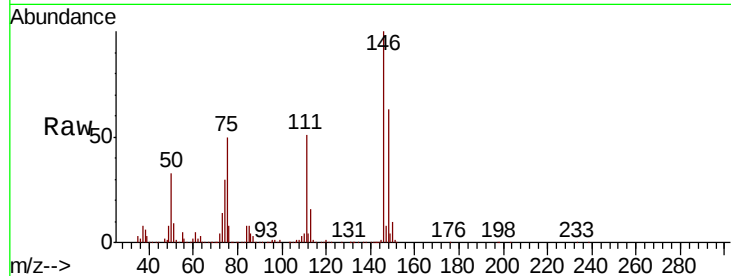
#77
 1,2-Dichlorobenzene
 Concen: 8.505 ppbv
 RT: 17.91 min Scan# 4702
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1310321
 Ion Ratio Lower Upper
 146 100
 111 52.2 26.1 78.3
 148 64.7 31.9 95.9

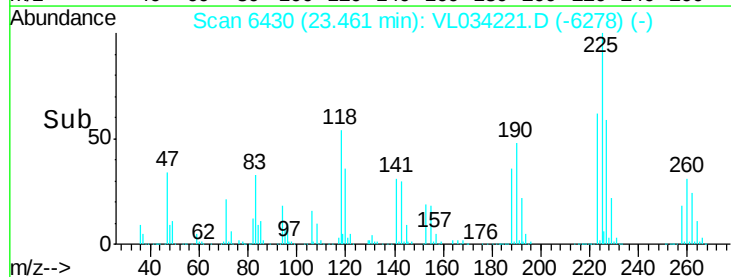
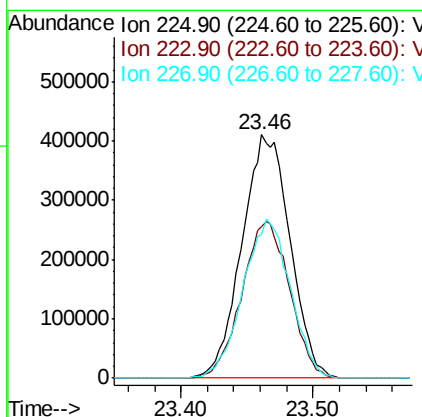
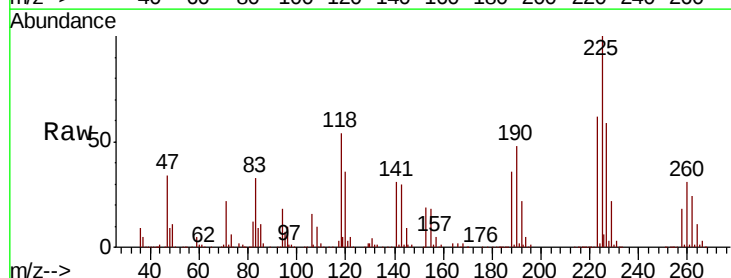
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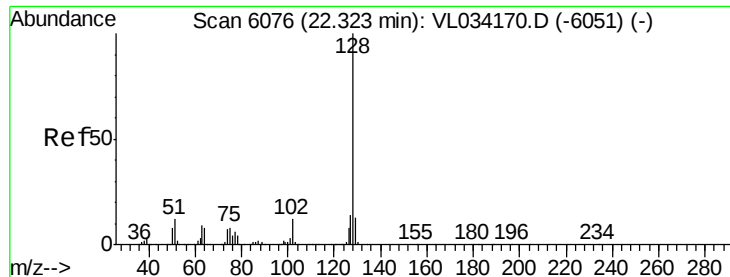
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.154 ppbv m
 RT: 23.46 min Scan# 6430
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Tgt Ion:225 Resp: 1036163
 Ion Ratio Lower Upper
 225 100
 223 64.0 51.7 77.5
 227 64.2 52.1 78.1





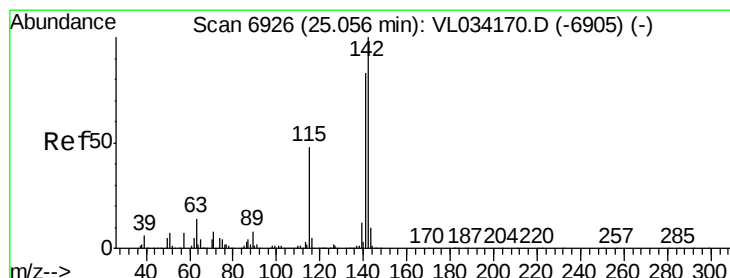
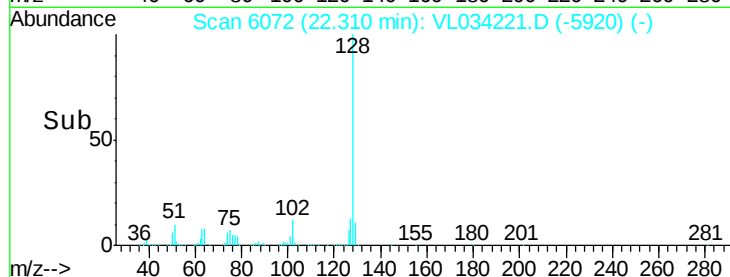
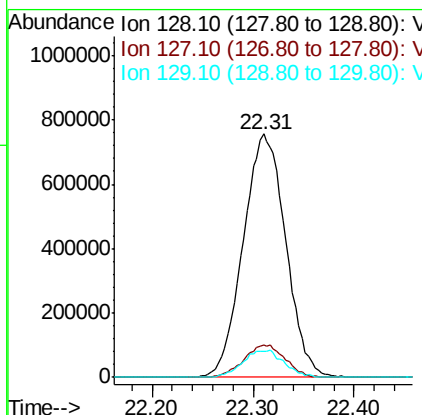
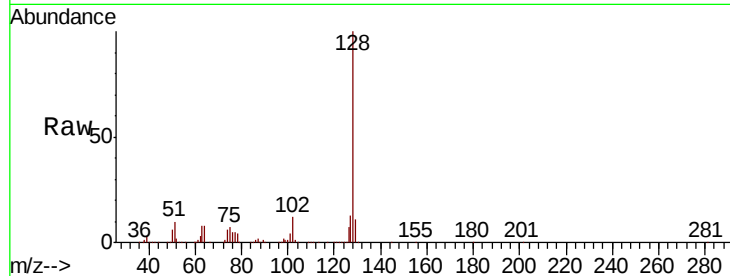
#79
Naphthalene
Concen: 8.847 ppbv
RT: 22.31 min Scan# 6072
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	11.1	16.7
129	10.7	10.2	15.4

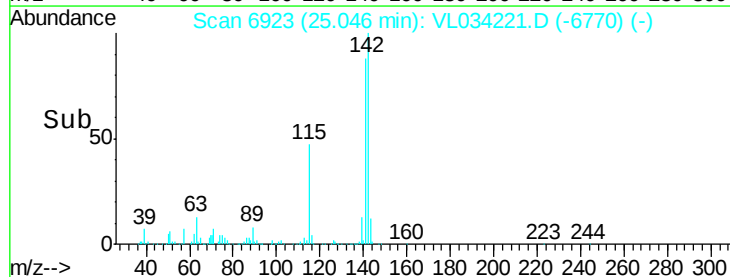
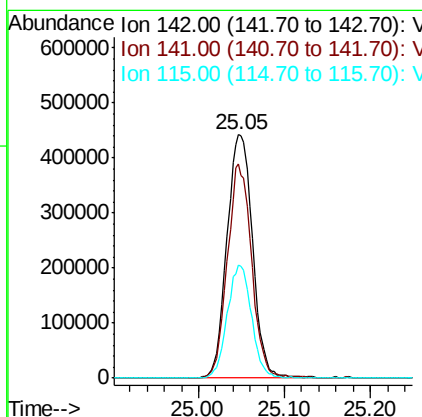
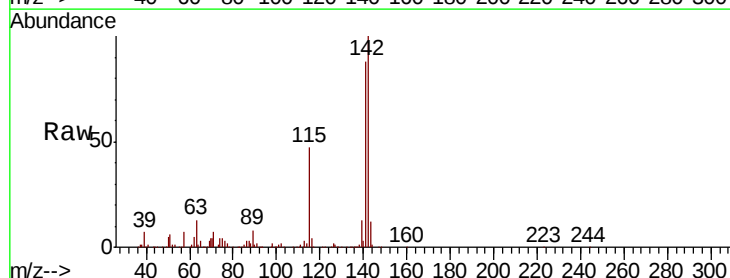
Manual Integrations
APPROVED

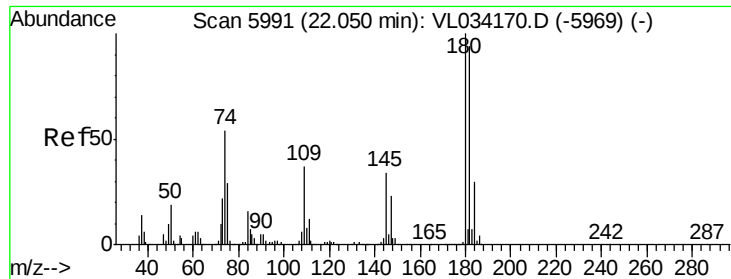
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#80
Naphthalene, 2-methyl-
Concen: 7.885 ppbv
RT: 25.05 min Scan# 6923
Delta R.T. -0.01 min
Lab File: VL034221.D
Acq: 2 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.2	67.6	101.4
115	43.9	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.825 ppbv
 RT: 22.04 min Scan# 5988
 Delta R.T. -0.01 min
 Lab File: VL034221.D
 Acq: 2 Oct 2019 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.4	116.2
184	30.4	25.0	37.4

Manual Integrations
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