

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034339.D
 Acq On : 18 Oct 2019 11:26
 Operator : SY/AP
 Sample : VL1017SABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:56:28 PM

Quant Time: Oct 19 00:33:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 19 00:33:53 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	879538	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1848556	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2037881	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1591697	9.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1066666	7.035	ppbv	98
3) Chlorodifluoromethane	2.96	51	1072152	10.400	ppbv	99
4) Chloromethane	3.12	50	658696	10.802	ppbv	99
5) Vinyl Chloride	3.24	62	608995	10.474	ppbv	98
6) Bromomethane	3.46	94	321876	11.305	ppbv	98
7) Chloroethane	3.54	64	224256	10.958	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1360818	10.357	ppbv	97
9) Propene	2.99	41	522845	11.441	ppbv	97
10) Heptane	8.16	43	1386614	11.822	ppbv	100
11) Trichlorofluoromethane	3.94	101	1488771	10.341	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1020289	10.818	ppbv	99
13) Ethanol	3.59	45	109635	10.715	ppbv	95
14) Bromoethene	3.73	108	440296	11.857	ppbv	99
15) Acetone	3.84	43	1126873	8.957	ppbv	99
16) 1,3-Butadiene	3.31	39	576693	11.282	ppbv	99
17) tert-Butyl alcohol	4.29	59	1019729	12.700	ppbv	100
18) 1,1-Dichloroethene	4.29	96	464614	11.251	ppbv	98
19) Isopropyl Alcohol	3.96	45	852127	12.142	ppbv	100
20) Methylene Chloride	4.34	84	411083	9.039	ppbv	96
21) Allyl Chloride	4.41	41	787825	11.328	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	472570	11.473	ppbv	99
23) Vinyl Acetate	5.08	43	1845009	11.744	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1261804	10.822	ppbv	98
25) Ethyl Acetate	5.69	43	2304395	10.850	ppbv	99
26) Hexane	5.70	57	996496	11.008	ppbv	98
27) Carbon Disulfide	4.55	76	1151886	12.256	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1623599	11.851	ppbv	98
29) Chloroform	5.78	83	1558806	10.886	ppbv	96
30) Cyclohexane	7.17	84	826574	12.415	ppbv	94
31) cis-1,2-Dichloroethene	5.56	61	1073263	11.682	ppbv	98
32) 1,1,1-Trichloroethane	6.54	97	1507802	10.828	ppbv	99
34) 2-Butanone	5.26	43	1551453	10.268	ppbv	98
35) Carbon Tetrachloride	7.05	117	1576330	9.790	ppbv	99
36) Benzene	6.92	78	1959305	11.047	ppbv	98
37) 1,2-Dichloroethane	6.34	62	1283603	9.711	ppbv	98
38) Trichloroethene	7.88	130	736924	10.354	ppbv	92
39) 1,2-Dichloropropane	7.65	63	809548	10.600	ppbv	99
40) 1,4-Dioxane	7.87	88	306511	11.420	ppbv	97
41) Tetrahydrofuran	6.07	42	914041	10.900	ppbv	96
42) Bromodichloromethane	7.83	83	1696854	10.481	ppbv	99
43) Methyl Methacrylate	8.06	69	847991	11.560	ppbv	95

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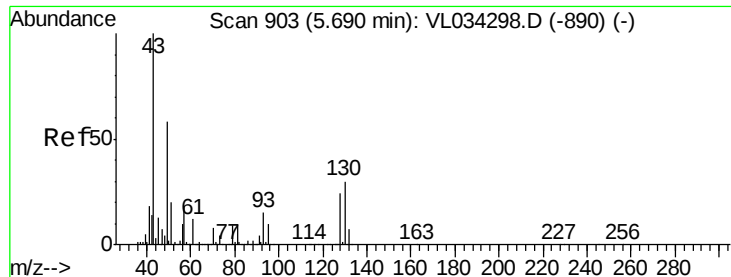
Manual Integrations
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Quant Time: Oct 19 00:33:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3422049	10.424	ppbv	98
45) t-1,3-Dichloropropene	9.33	75	1101091	12.320	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1250022	12.174	ppbv	95
47) 1,1,2-Trichloroethane	9.53	97	815129	10.537	ppbv	98
48) Dibromochloromethane	10.36	129	1417097	11.167	ppbv	99
49) Bromoform	13.11	173	1305841	11.613	ppbv	100
50) 4-Methyl-2-Pentanone	8.79	43	2312834	10.692	ppbv	99
51) 2-Hexanone	10.19	43	1954268	11.021	ppbv	98
52) Tetrachloroethene	11.28	164	746168	10.733	ppbv	98
53) Toluene	9.86	91	2273216	11.614	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1235209	10.773	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.19	131	937937	9.987	ppbv	95
57) Chlorobenzene	12.21	112	1686563	9.920	ppbv	99
58) Ethyl Benzene	12.78	91	3095313	10.866	ppbv	98
59) m/p-Xylene	13.06	91	5047445m	20.450	ppbv	
60) o-Xylene	13.76	91	2525708	10.276	ppbv	100
61) Styrene	13.60	104	1919225	11.092	ppbv	99
62) Isopropylbenzene	14.74	105	3319456	10.231	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1779177	9.008	ppbv	100
64) n-propylbenzene	15.64	120	876351	10.525	ppbv	100
65) tert-Butylbenzene	16.82	119	2938037	10.217	ppbv	99
66) Benzyl Chloride	17.07	91	1416109	12.469	ppbv	99
67) sec-Butylbenzene	17.37	105	4119309	10.179	ppbv	99
69) p-Isopropyltoluene	17.73	119	3426377	10.386	ppbv	98
70) n-Butylbenzene	18.63	91	3665382	10.211	ppbv	100
71) 2-Chlorotoluene	15.53	91	2644907	10.514	ppbv	100
72) 4-Ethyltoluene	15.91	105	2954268	10.693	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	2819360	10.299	ppbv	96
74) 1,2,4-Trimethylbenzene	16.84	105	2911407	10.199	ppbv	99
75) 1,3-Dichlorobenzene	17.08	146	1700704	9.923	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	1703011	10.172	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1651695	9.829	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1299091	9.346	ppbv	99
79) Naphthalene	22.30	128	2530562m	12.135	ppbv	
80) Naphthalene, 2-methyl-	25.04	142	816137	13.540	ppbv	98
81) 1,2,4-Trichlorobenzene	22.03	180	1527563	11.216	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 49 Resp: 879538

Ion Ratio Lower Upper

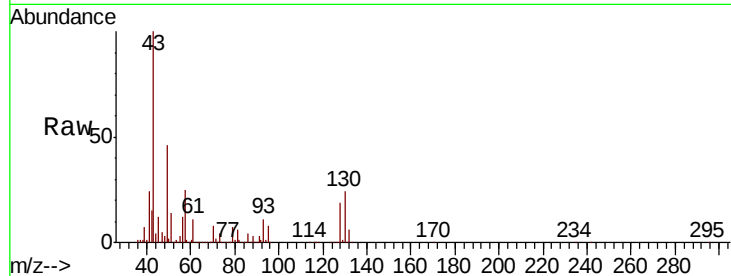
49 100

128 42.7 20.6 61.8

130 54.8 26.2 78.5

Manual Integrations
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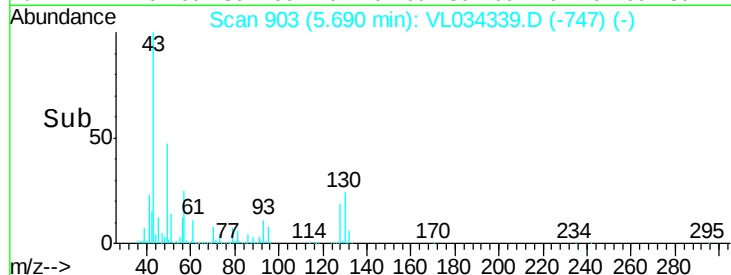


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

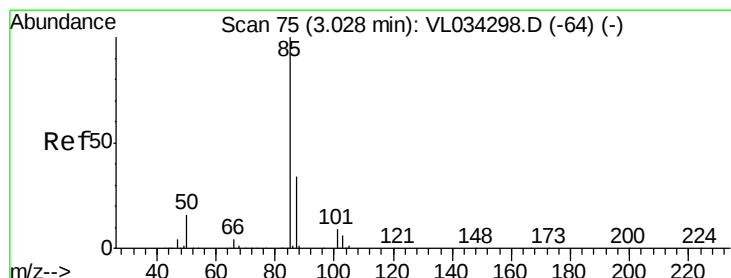
Ion 130.00 (129.70 to 130.70): V

Time-->



5.69

Time-->



#2

Dichlorodifluoromethane

Concen: 7.035 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL034339.D

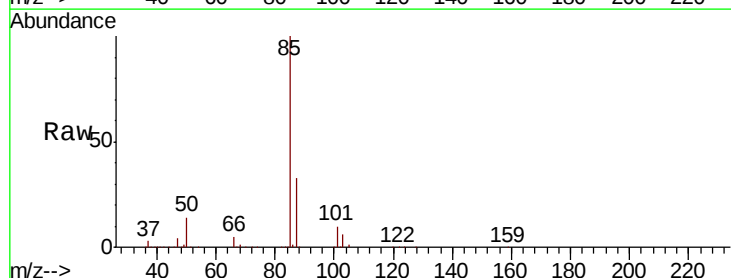
Acq: 18 Oct 2019 11:26

Tgt Ion: 85 Resp: 1066666

Ion Ratio Lower Upper

85 100

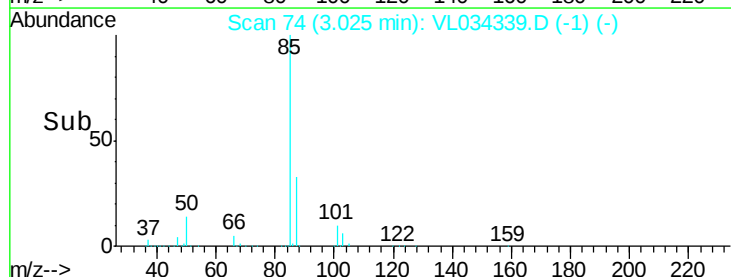
87 32.7 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

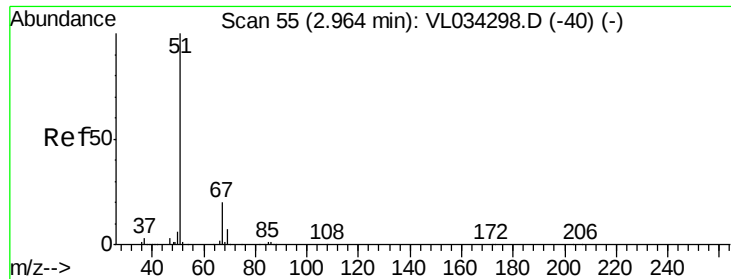
Ion 87.00 (86.70 to 87.70): VL0

Time-->



3.02

Time-->



#3

Chlorodifluoromethane

Concen: 10.400 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 51 Resp: 1072152

Ion Ratio Lower Upper

51 100

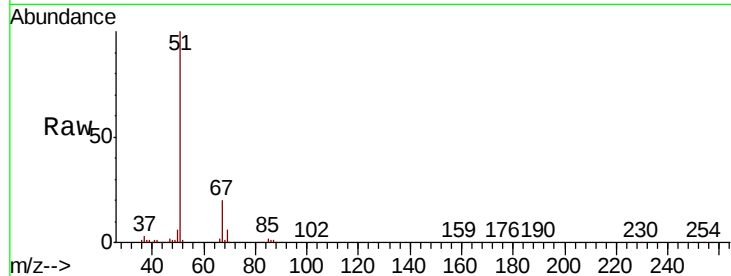
67 19.2 15.8 23.8

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.96

800000

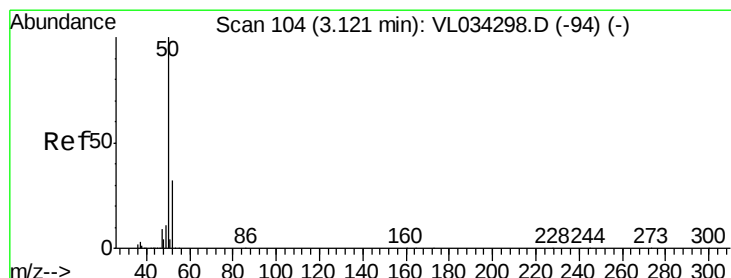
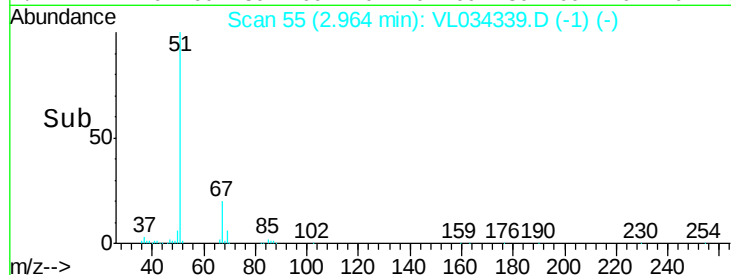
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 10.802 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.00 min

Lab File: VL034339.D

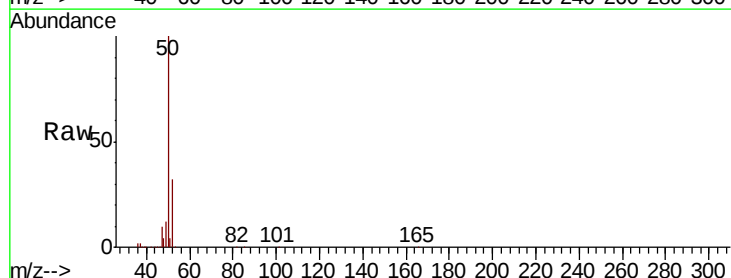
Acq: 18 Oct 2019 11:26

Tgt Ion: 50 Resp: 658696

Ion Ratio Lower Upper

50 100

52 32.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.12

500000

400000

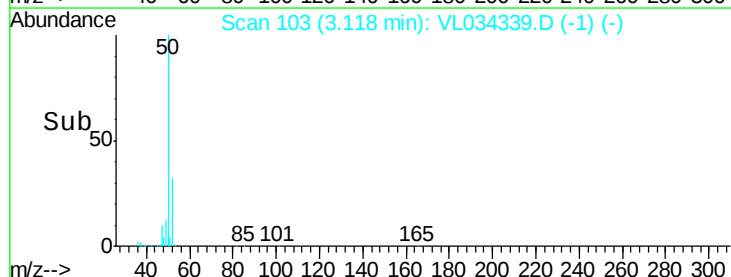
300000

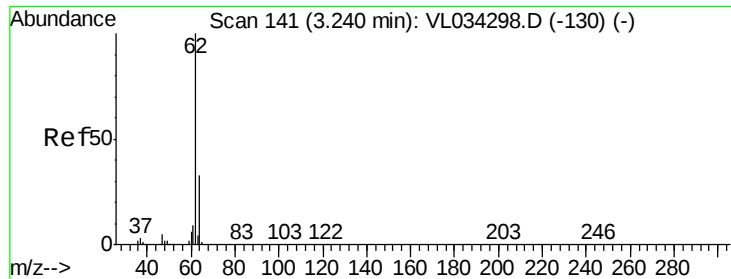
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 10.474 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 62 Resp: 608995

Ion Ratio Lower Upper

62 100

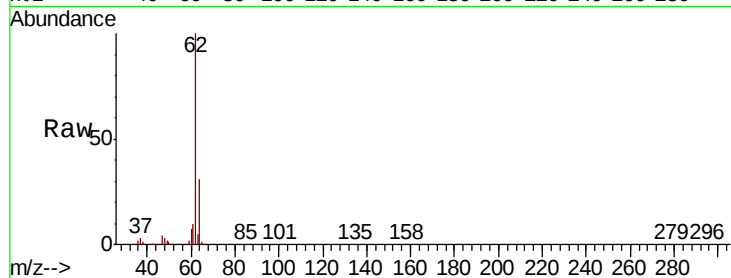
64 31.1 26.0 39.0

Manual Integrations

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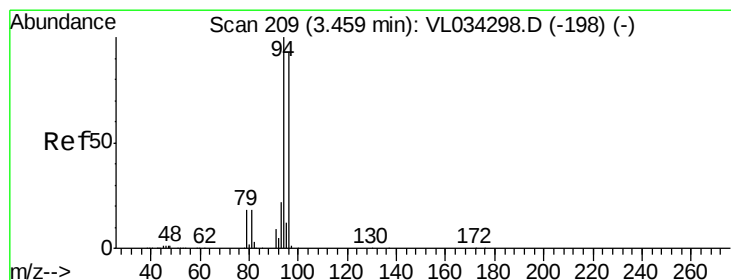
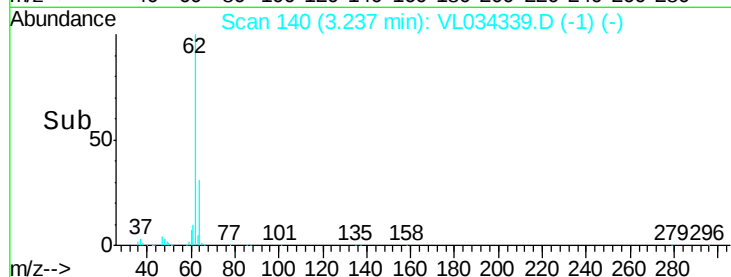
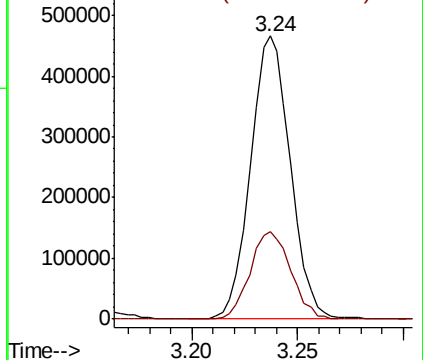
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.305 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034339.D

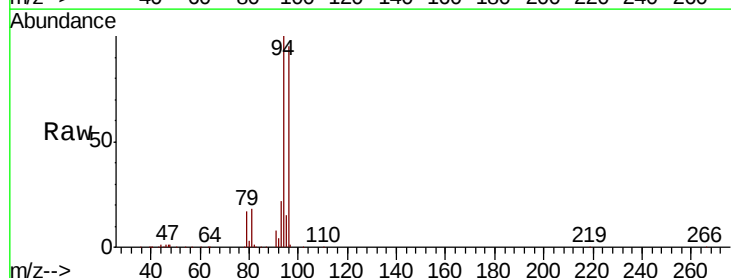
Acq: 18 Oct 2019 11:26

Tgt Ion: 94 Resp: 321876

Ion Ratio Lower Upper

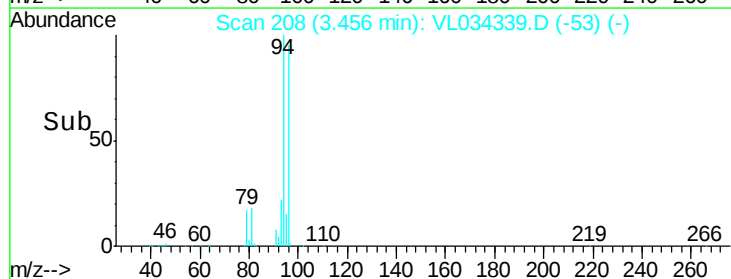
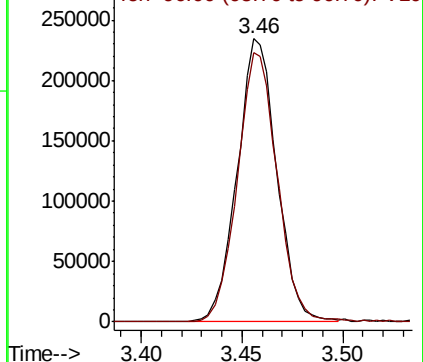
94 100

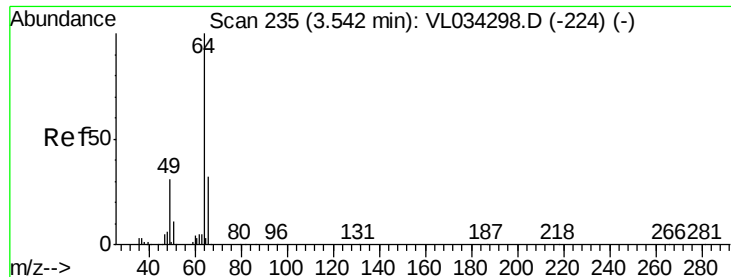
96 94.8 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.958 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 64 Resp: 224256

Ion Ratio Lower Upper

64 100

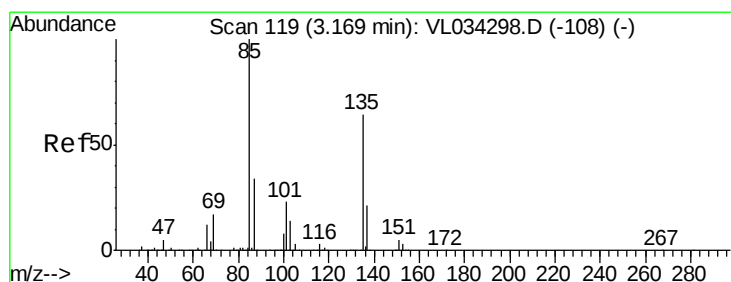
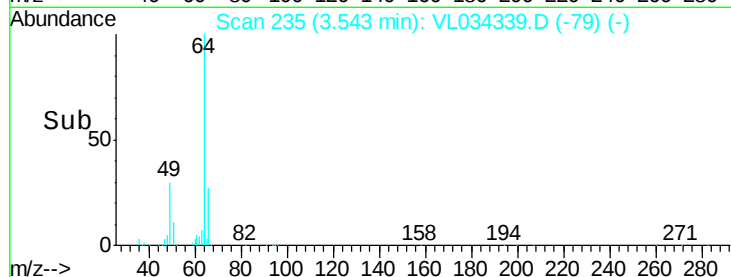
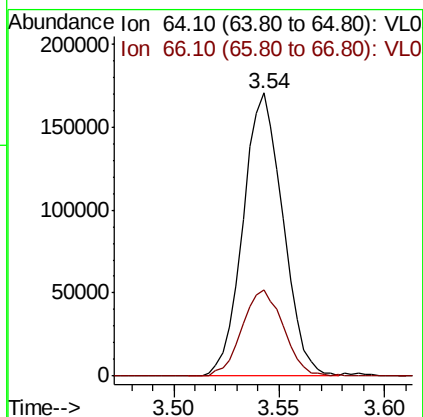
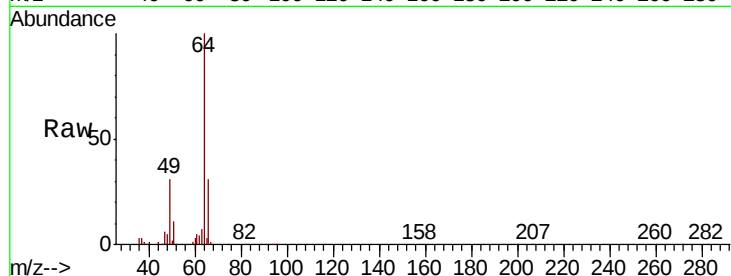
66 30.7 25.4 38.0

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#8

Dichlorotetrafluoroethane

Concen: 10.357 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.00 min

Lab File: VL034339.D

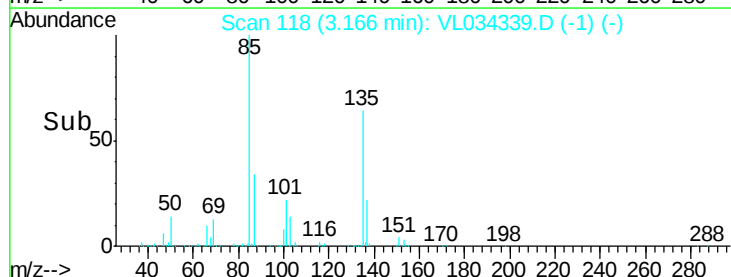
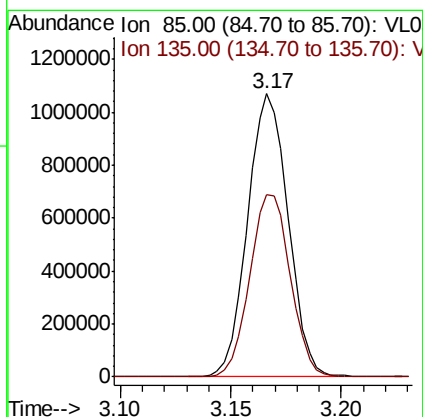
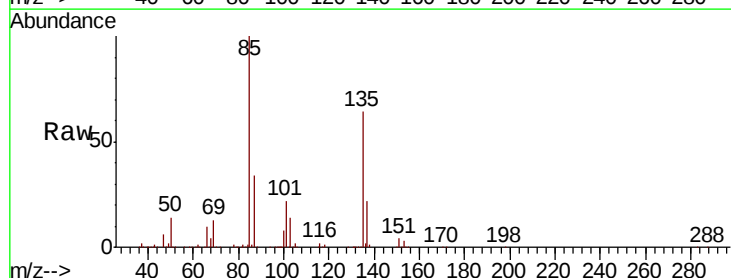
Acq: 18 Oct 2019 11:26

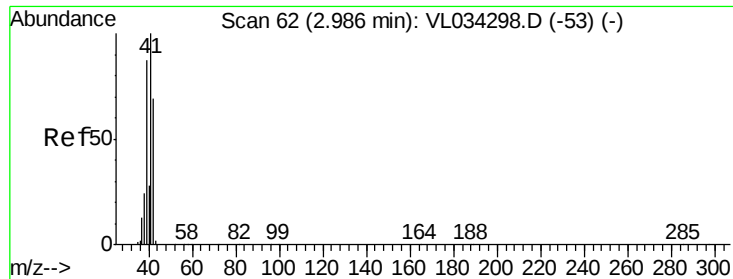
Tgt Ion: 85 Resp: 1360818

Ion Ratio Lower Upper

85 100

135 64.9 50.2 75.2





#9

Propene

Concen: 11.441 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 41 Resp: 522845

Ion Ratio Lower Upper

41 100

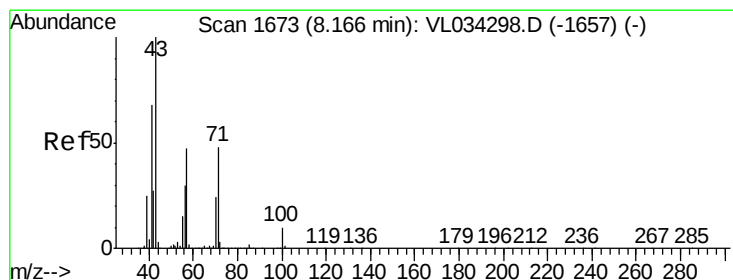
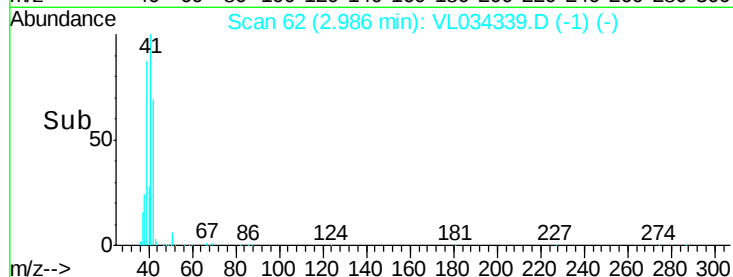
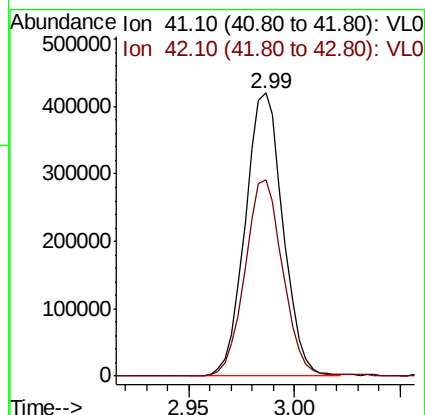
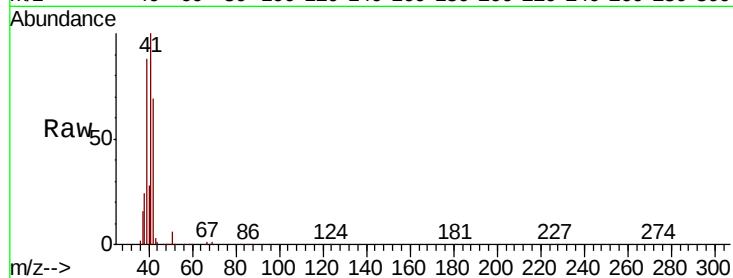
42 70.0 53.9 80.9

Manual Integrations

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#10

Heptane

Concen: 11.822 ppbv

RT: 8.16 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VL034339.D

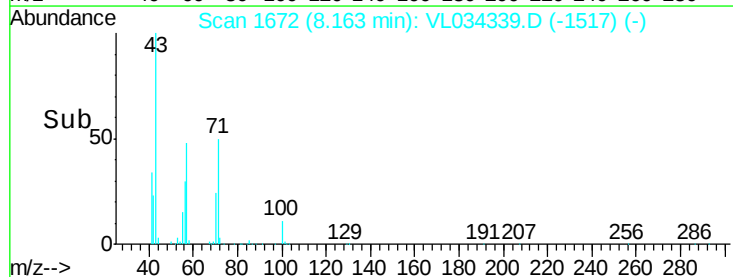
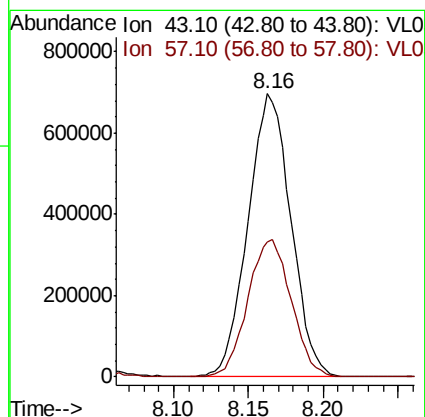
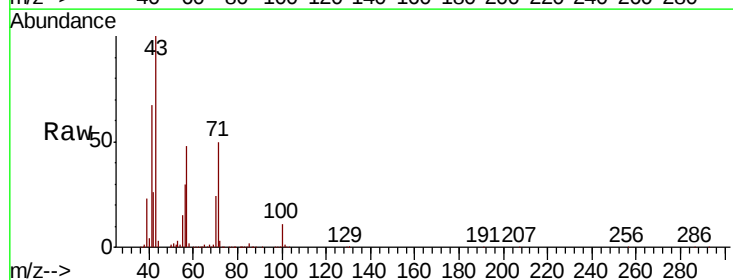
Acq: 18 Oct 2019 11:26

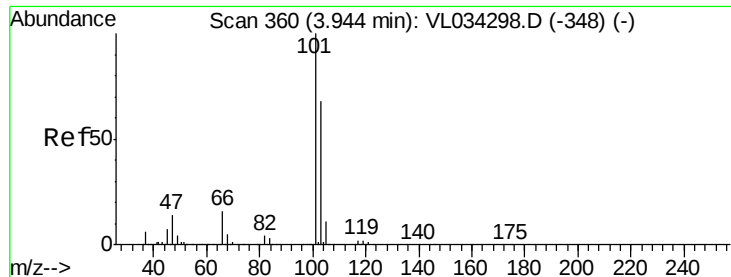
Tgt Ion: 43 Resp: 1386614

Ion Ratio Lower Upper

43 100

57 49.3 39.5 59.3





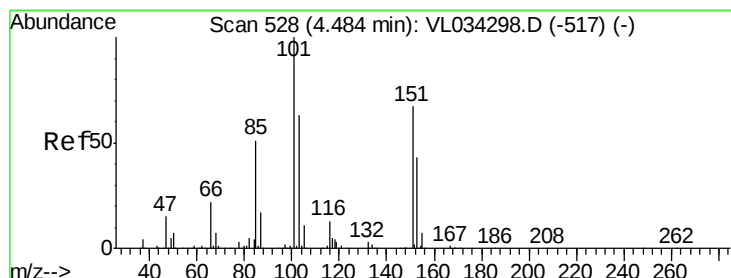
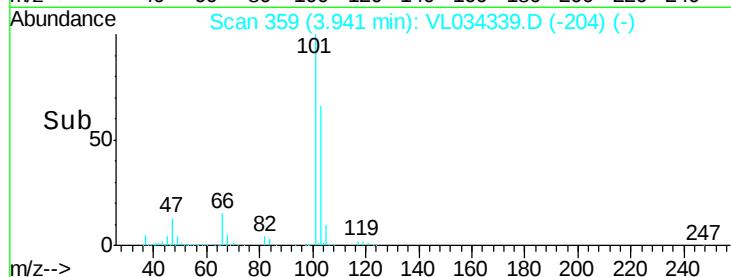
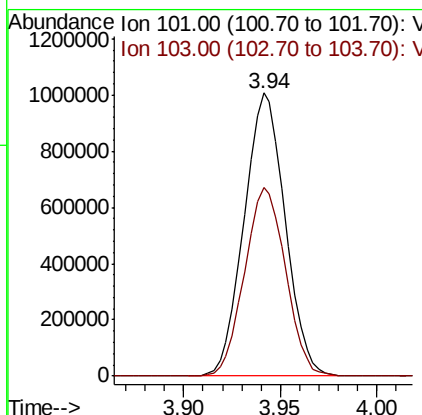
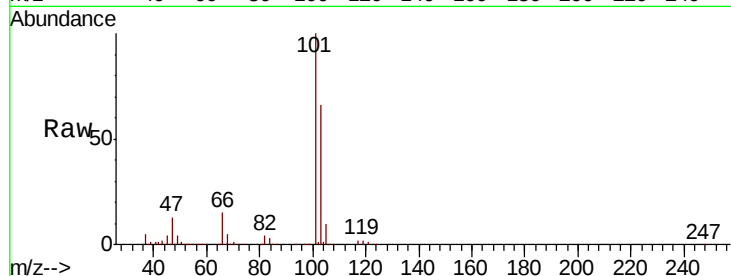
#11
 Trichlorofluoromethane
 Concen: 10.341 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion:101 Resp: 1488771
 Ion Ratio Lower Upper
 101 100
 103 66.5 54.5 81.7

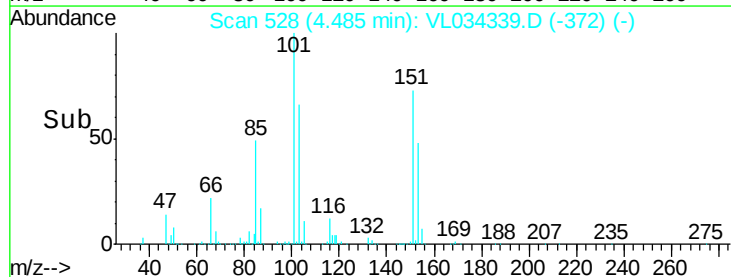
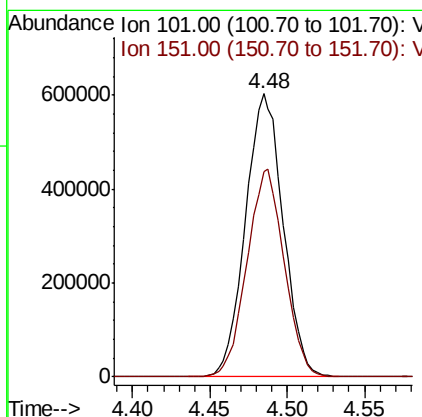
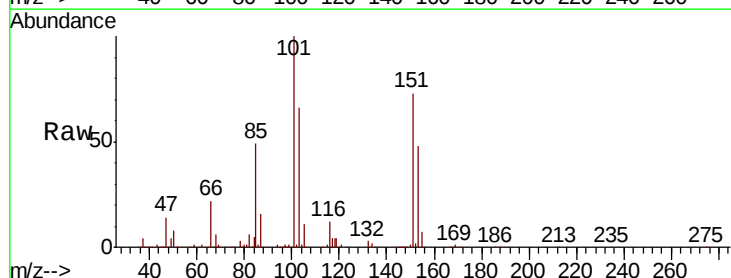
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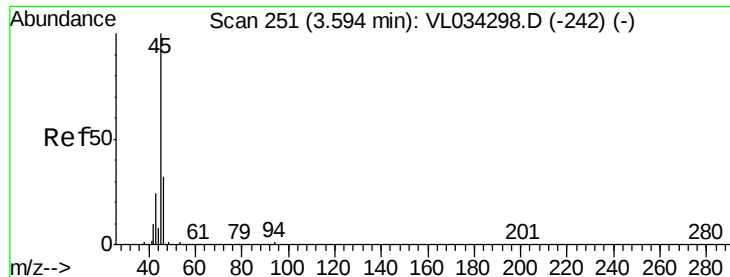
MMDadoda
 10/22/2019 2:56:28 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.818 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion:101 Resp: 1020289
 Ion Ratio Lower Upper
 101 100
 151 72.9 57.4 86.2





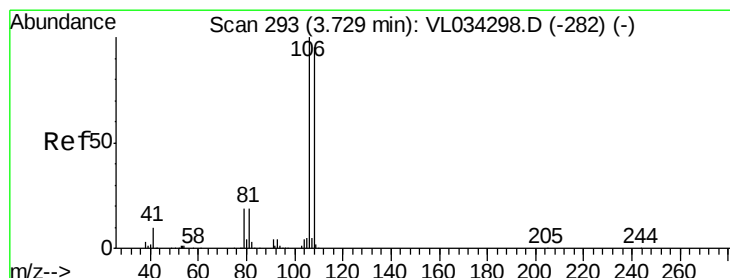
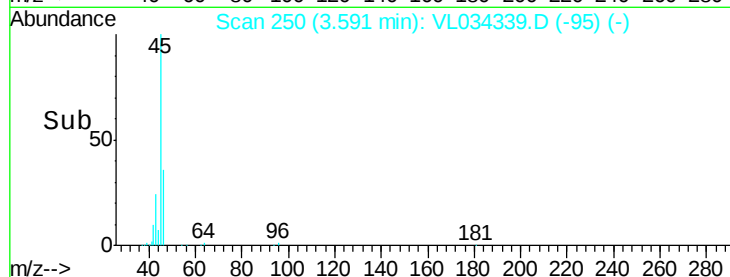
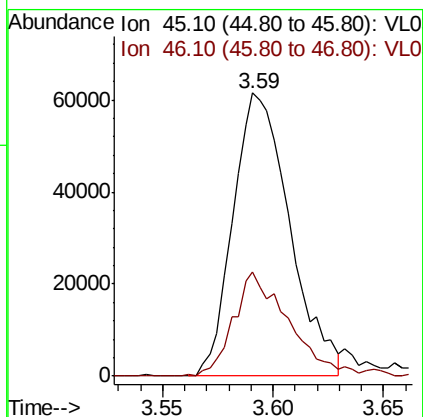
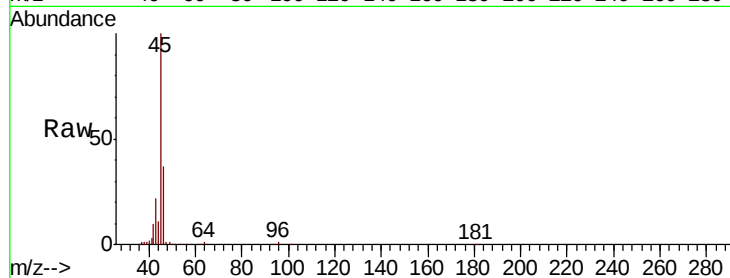
#13
Ethanol
Concen: 10.715 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	45	Resp	109635
Ion Ratio	100	Lower	Upper
46	36.4	15.8	63.2

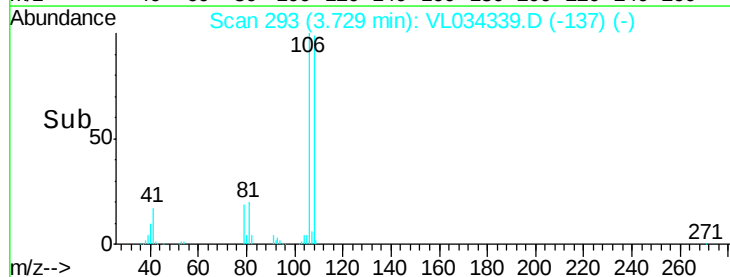
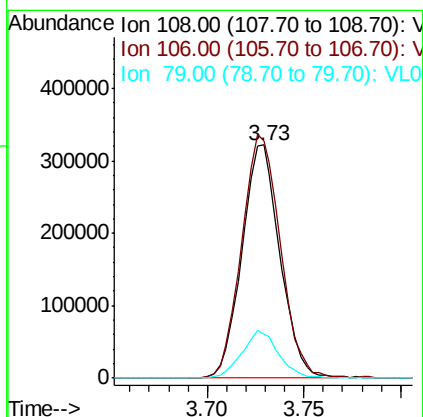
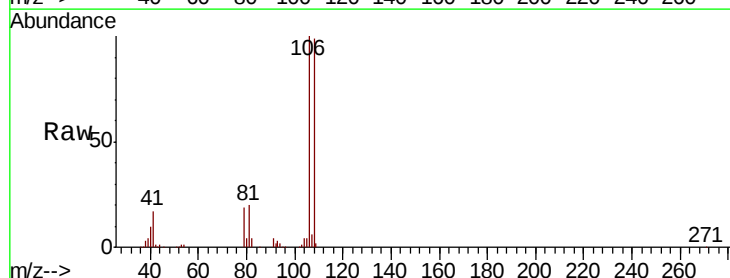
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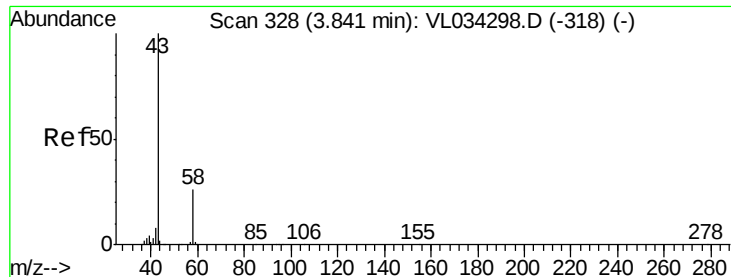
MMDadoda
10/22/2019 2:56:28 PM



#14
Bromoethene
Concen: 11.857 ppbv
RT: 3.73 min Scan# 293
Delta R.T. 0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	108	Resp	440296
Ion Ratio	100	Lower	Upper
106	106.8	84.8	127.2
79	19.8	17.0	25.4





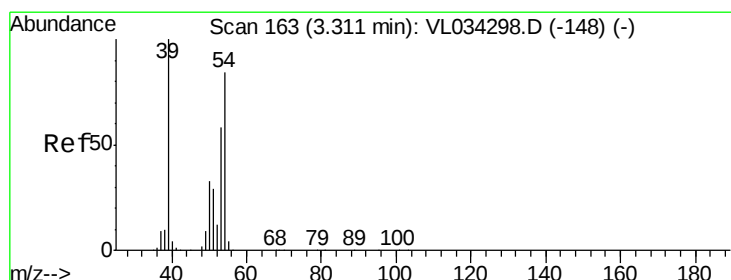
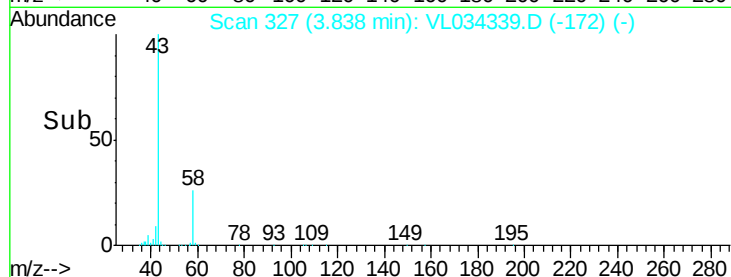
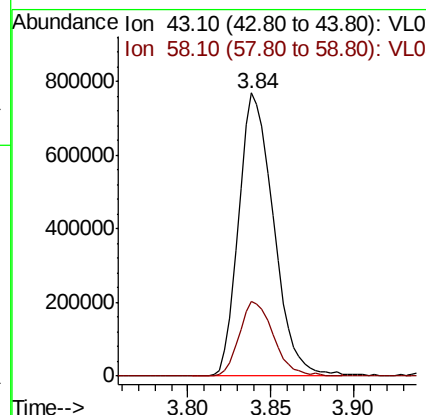
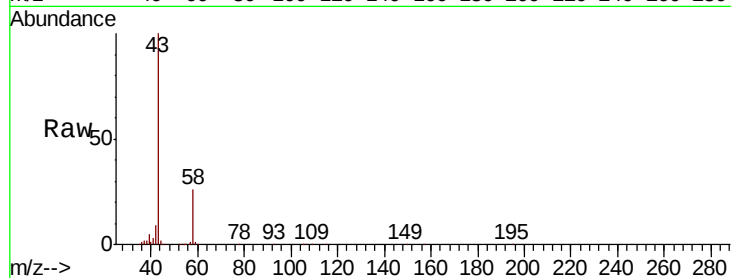
#15
Acetone
Concen: 8.957 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 43 Resp: 1126873
Ion Ratio Lower Upper
43 100
58 26.1 20.4 30.6

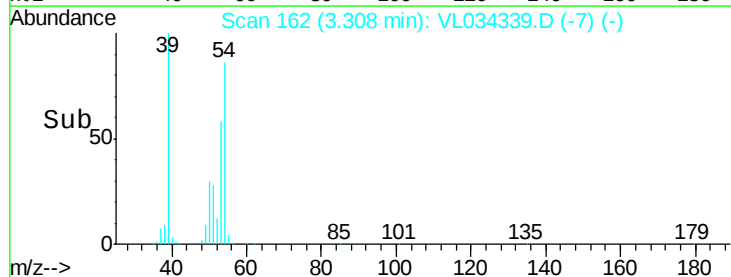
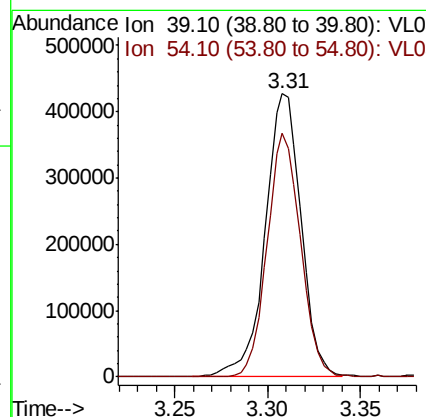
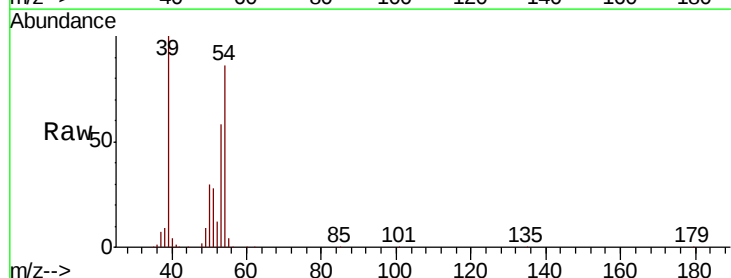
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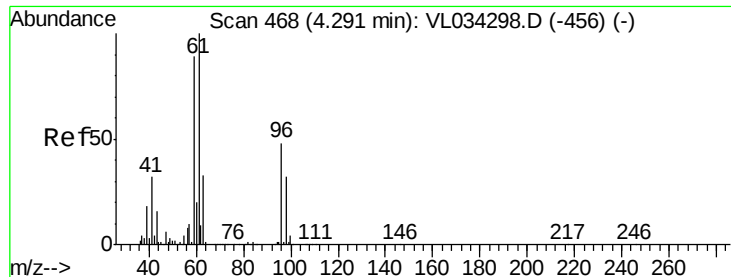
MMDadoda
10/22/2019 2:56:28 PM



#16
1,3-Butadiene
Concen: 11.282 ppbv
RT: 3.31 min Scan# 162
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 39 Resp: 576693
Ion Ratio Lower Upper
39 100
54 80.9 63.9 95.9





#17

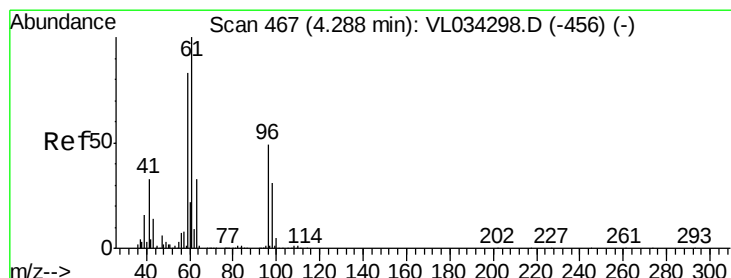
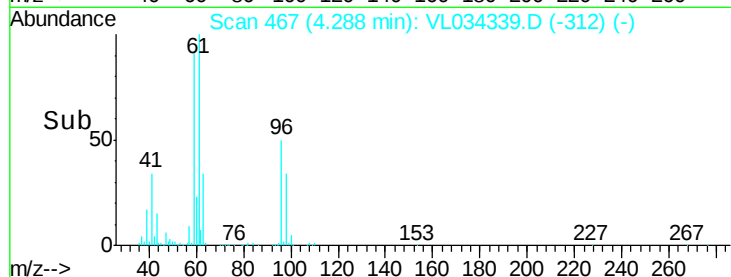
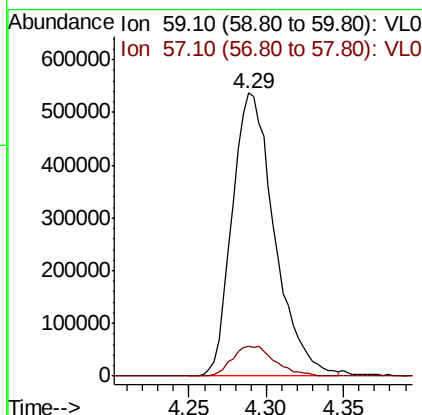
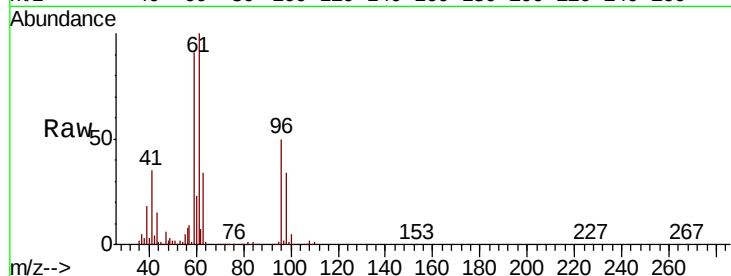
tert-Butyl alcohol
Concen: 12.700 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 59 Resp: 1019729
Ion Ratio Lower Upper
59 100
57 10.9 8.8 13.2

Manual Integrations
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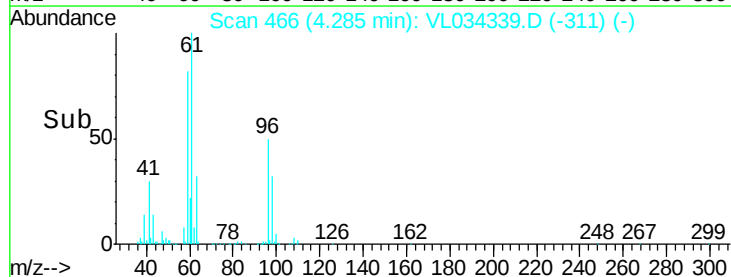
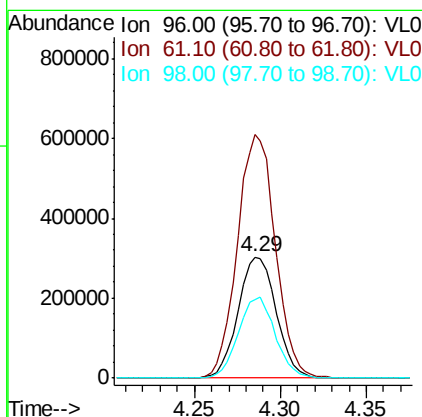
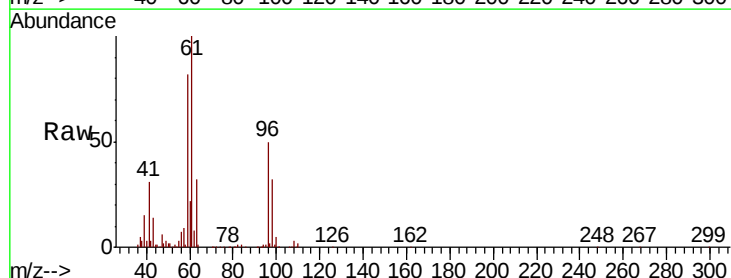
MMDadoda
10/22/2019 2:56:28 PM

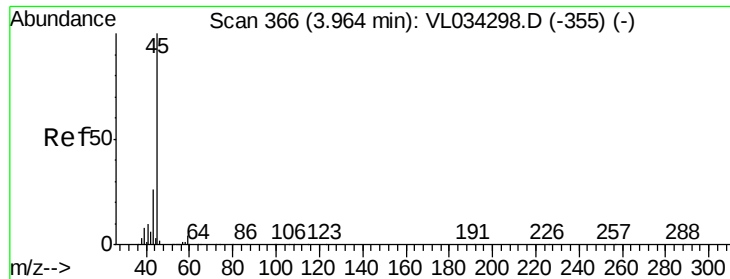


#18

1,1-Dichloroethene
Concen: 11.251 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 96 Resp: 464614
Ion Ratio Lower Upper
96 100
61 201.5 164.5 246.7
98 65.3 51.7 77.5





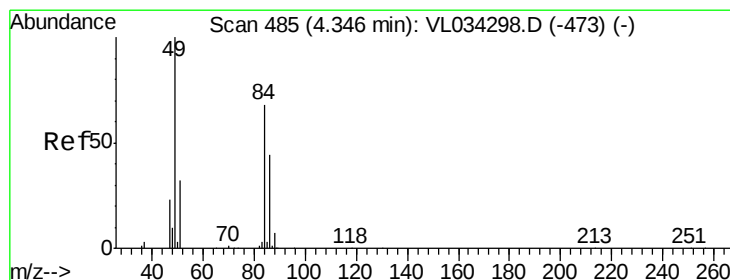
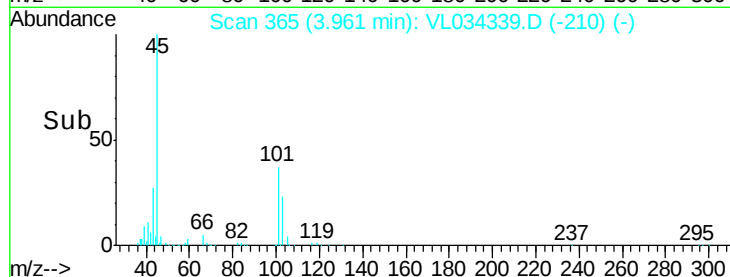
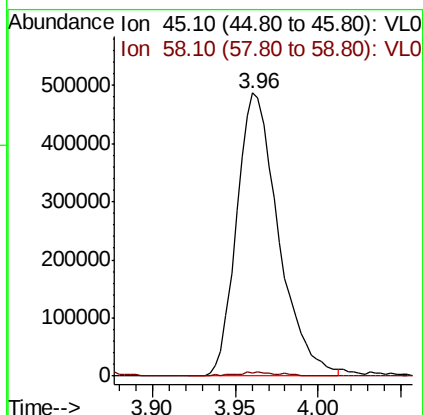
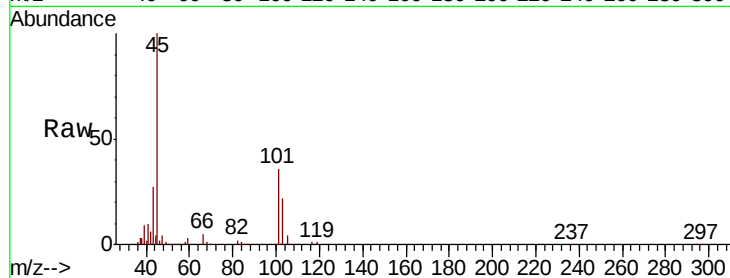
#19
Isopropyl Alcohol
Concen: 12.142 ppbv
RT: 3.96 min Scan# 365
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 45 Resp: 852127
Ion Ratio Lower Upper
45 100
58 1.8 1.4 2.2

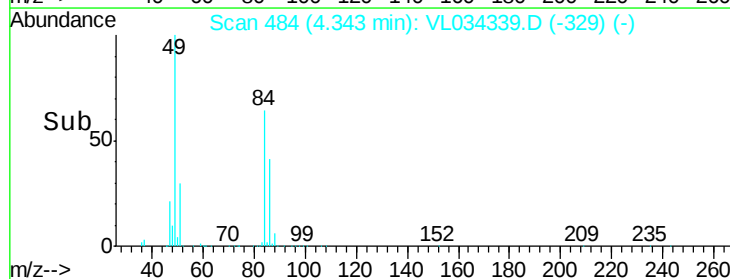
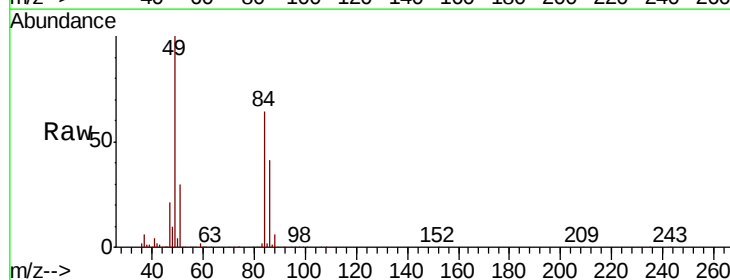
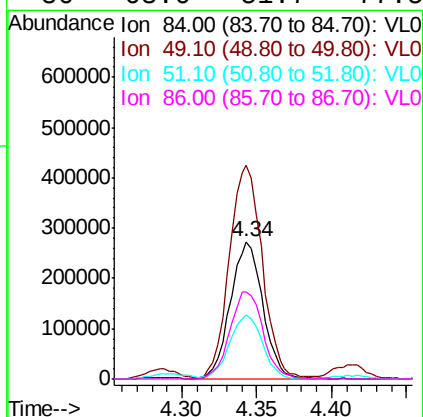
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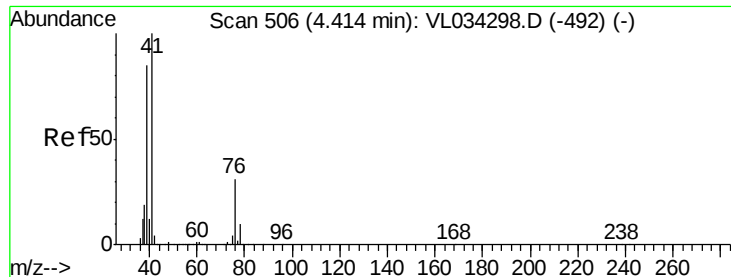
MMDadoda
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#20
Methylene Chloride
Concen: 9.039 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 84 Resp: 411083
Ion Ratio Lower Upper
84 100
49 153.6 118.5 177.7
51 44.0 38.8 58.2
86 63.6 51.7 77.5





#21

Allvl Chloride

Concen: 11.328 ppbv

RT: 4.41 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

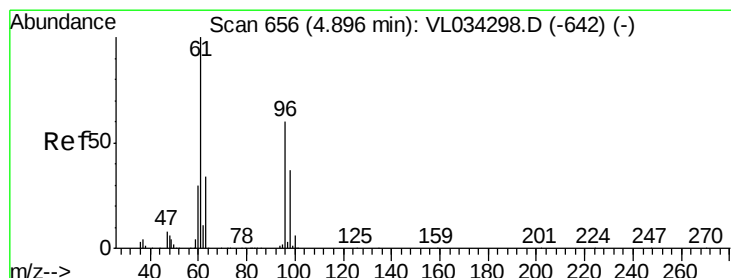
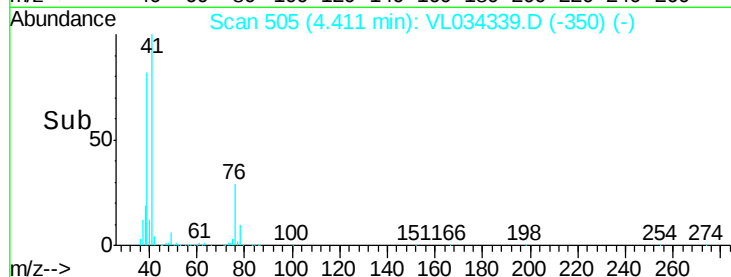
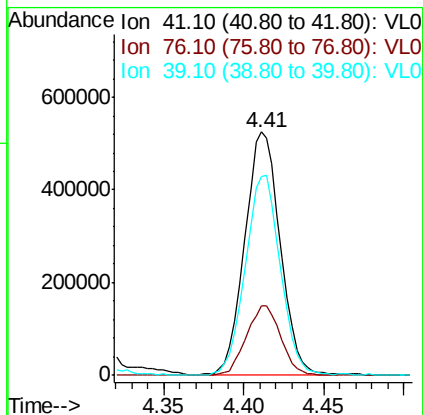
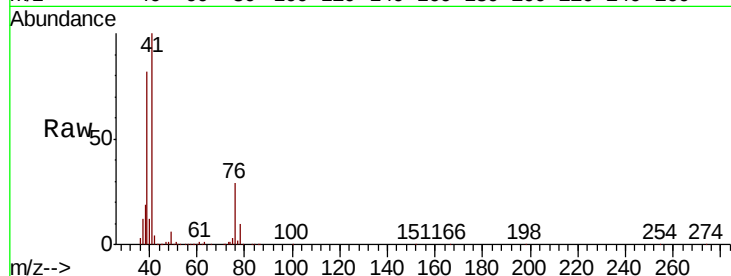
ClientSampleId :

VL1017SABS01

Tot Ion:	41	Resp:	787825
Ion Ratio		Lower	Upper
41	100		
76	28.2	22.8	34.2
39	81.9	66.0	99.0

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 11.473 ppbv

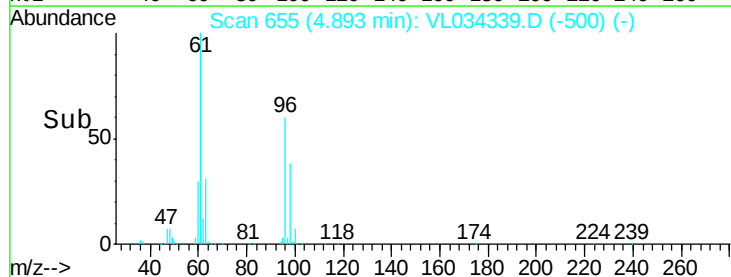
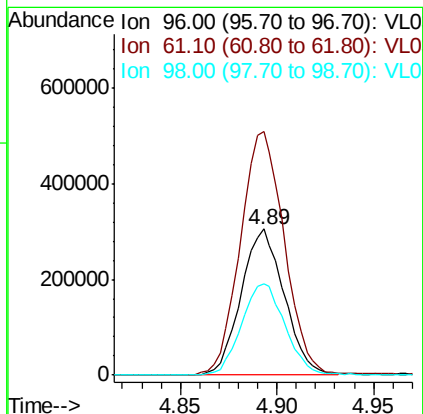
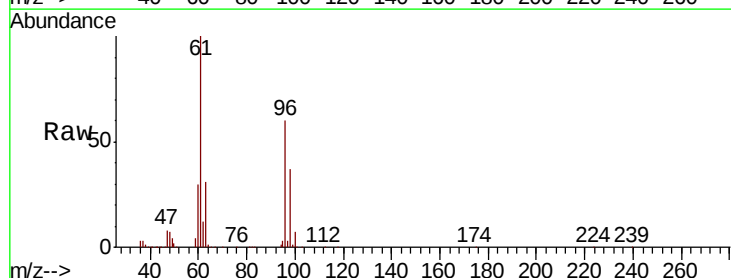
RT: 4.89 min Scan# 655

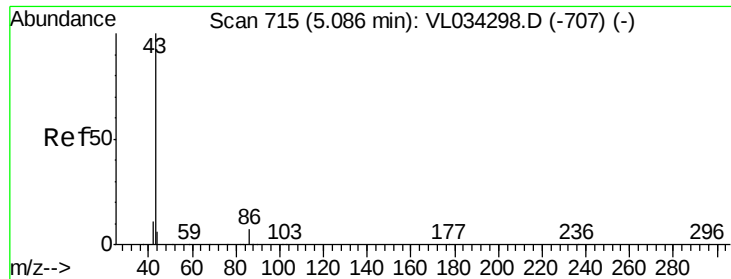
Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Tgt Ion:	96	Resp:	472570
Ion Ratio		Lower	Upper
96	100		
61	166.6	133.8	200.6
98	62.3	49.4	74.0





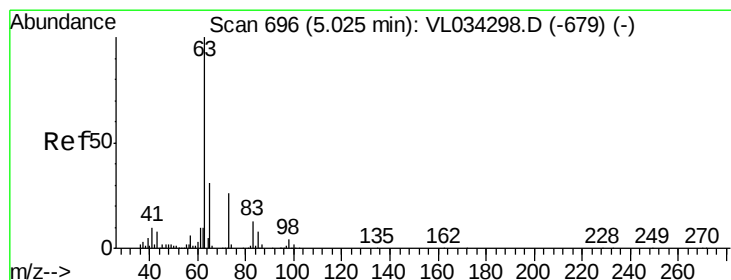
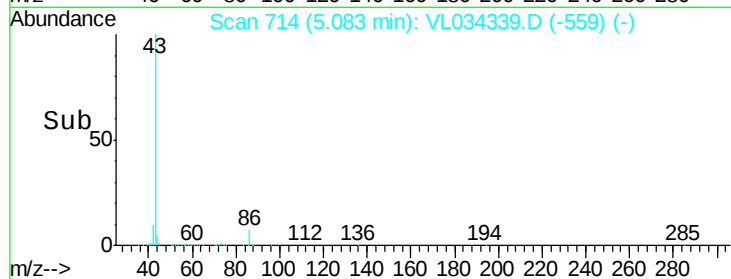
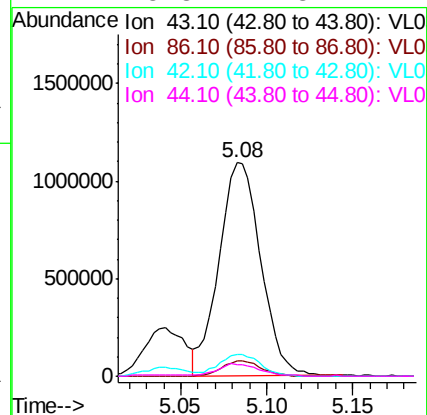
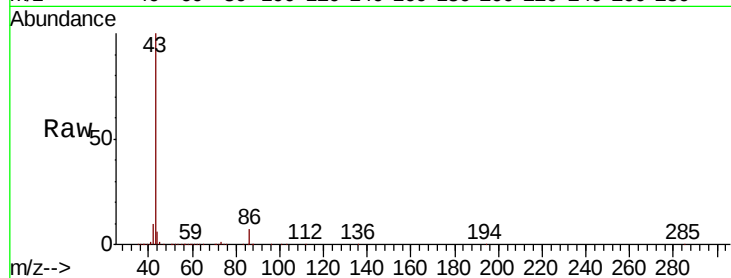
#23
 Vinyl Acetate
 Concen: 11.744 ppbv
 RT: 5.08 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	6.9	5.0	7.4	
42	10.2	8.6	13.0	
44	5.3	4.8	7.2	

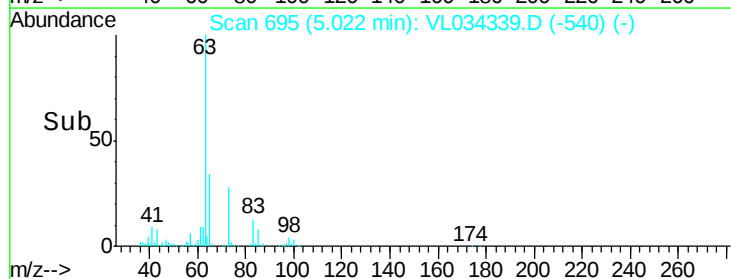
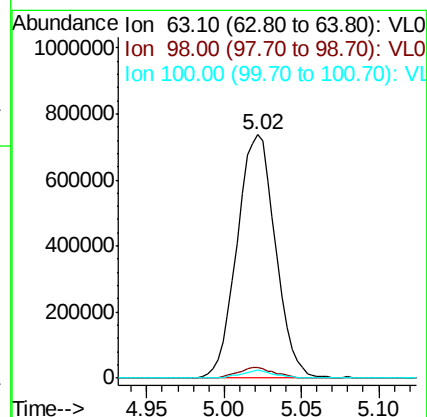
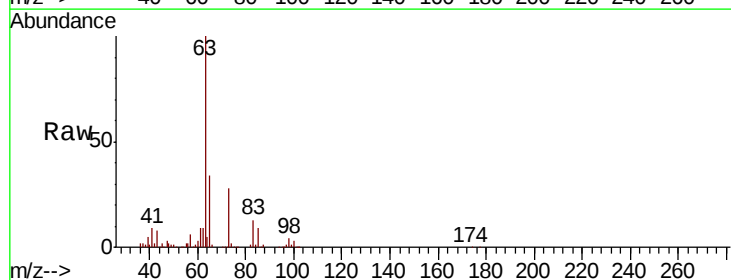
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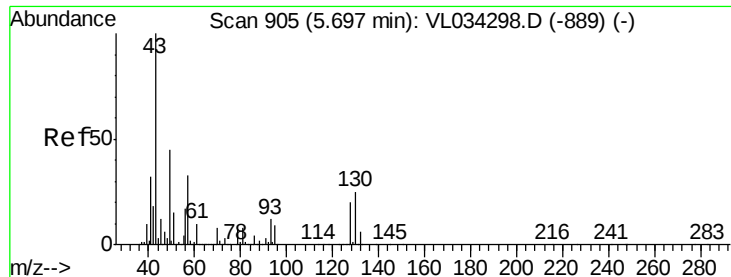
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 10.822 ppbv
 RT: 5.02 min Scan# 695
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.4	2.0	6.0	
100	3.2	1.1	3.5	





#25

Ethyl Acetate

Concen: 10.850 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 43 Resp: 2304395

Ion Ratio Lower Upper

43 100

45 10.4 8.3 12.5

61 9.8 7.7 11.5

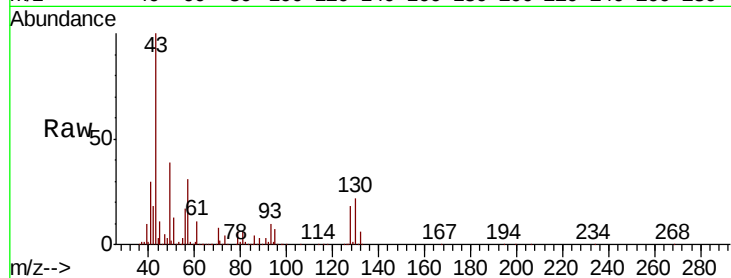
70 7.3 5.4 8.2

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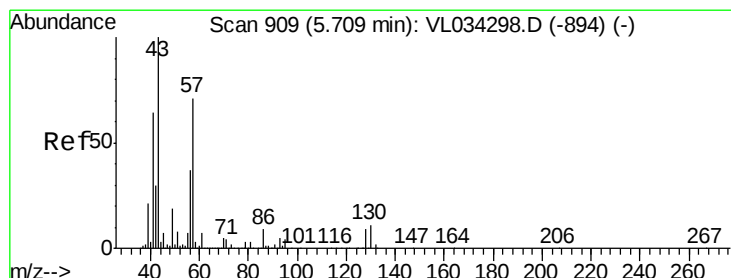
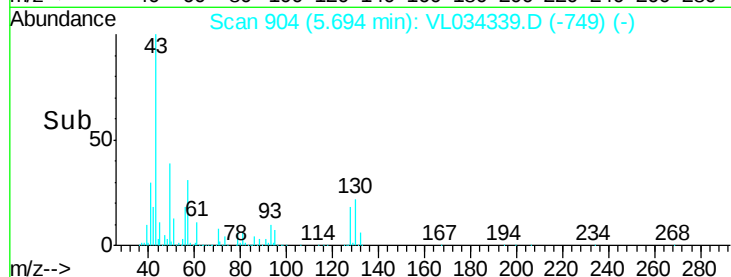
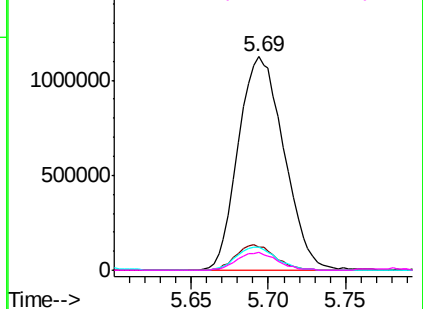


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 11.008 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Tgt Ion: 57 Resp: 996496

Ion Ratio Lower Upper

57 100

41 93.3 76.5 114.7

43 232.6 188.5 282.7

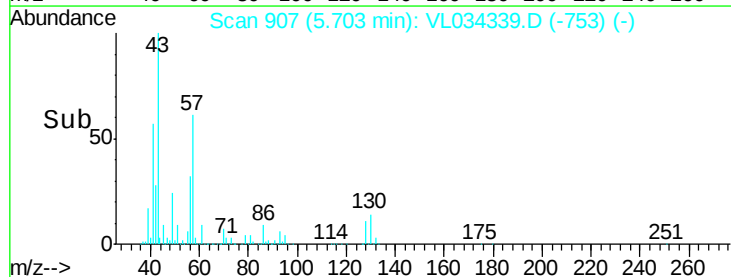
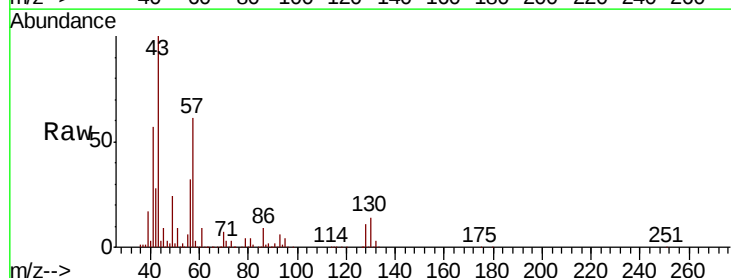
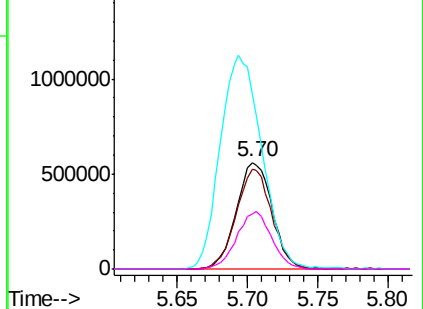
56 52.4 42.8 64.2

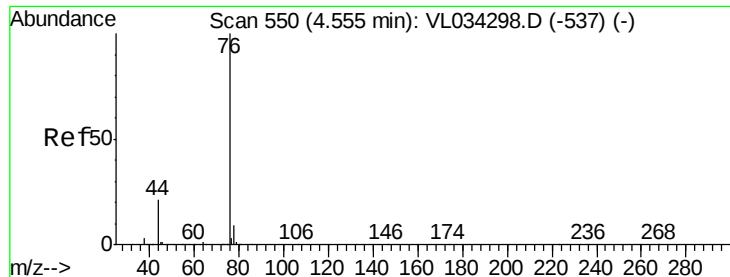
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 12.256 ppbv

RT: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 76 Resp: 1151886

Ion Ratio Lower Upper

76 100

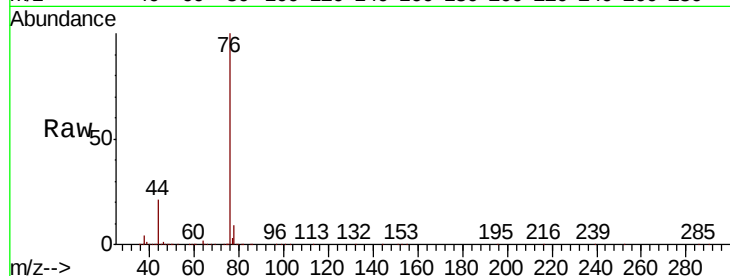
44 20.4 17.3 25.9

78 8.9 7.8 11.6

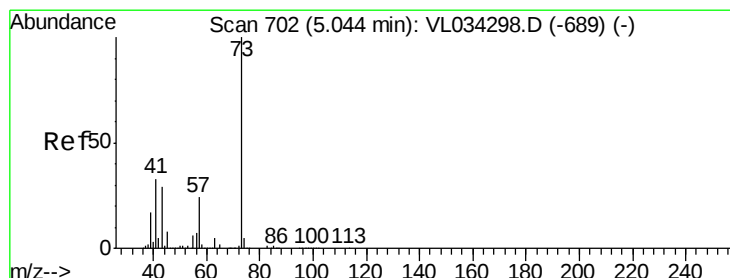
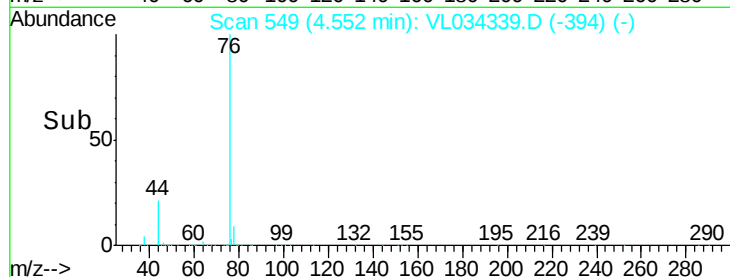
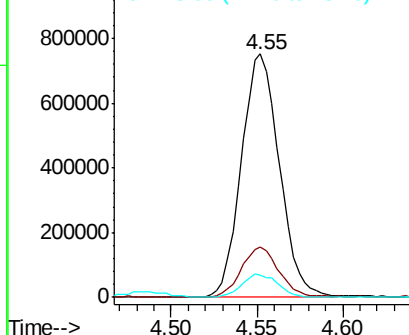
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.851 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL034339.D

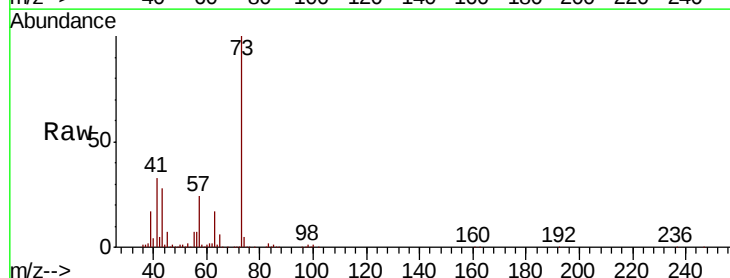
Acq: 18 Oct 2019 11:26

Tgt Ion: 73 Resp: 1623599

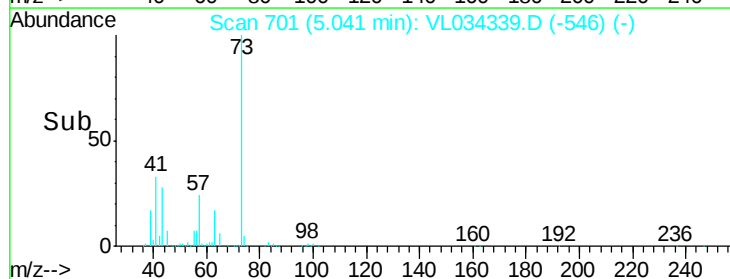
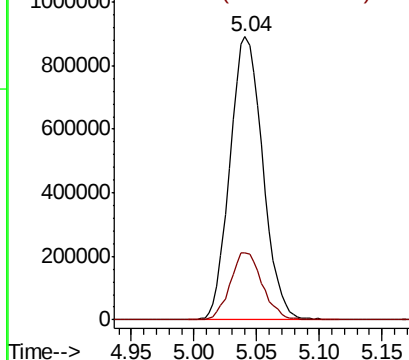
Ion Ratio Lower Upper

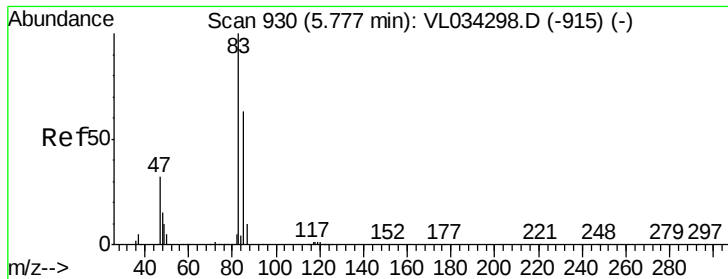
73 100

57 23.2 19.2 28.8



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





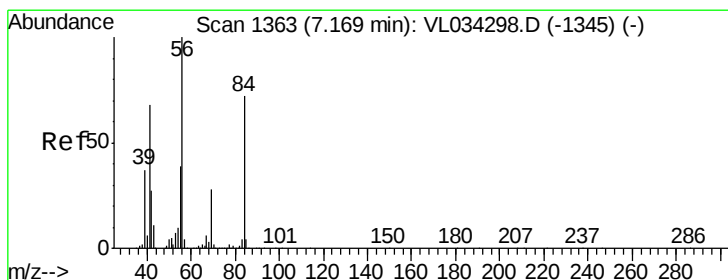
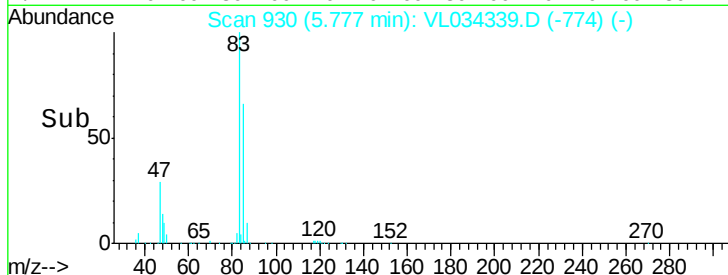
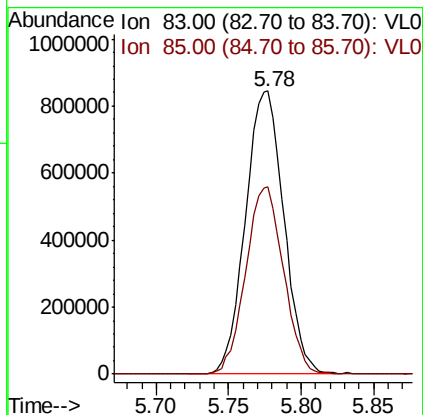
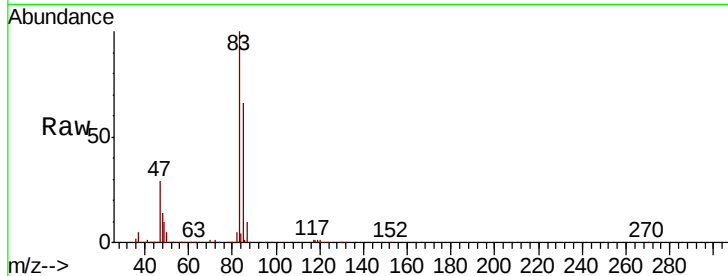
#29
Chloroform
Concen: 10.886 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 83 Resp: 1558806
Ion Ratio Lower Upper
83 100
85 65.9 50.5 75.7

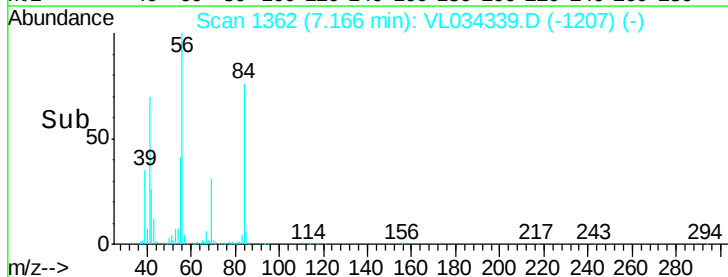
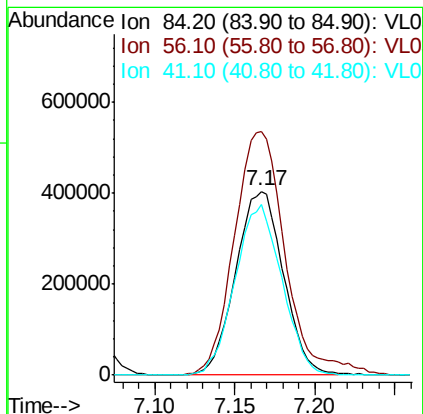
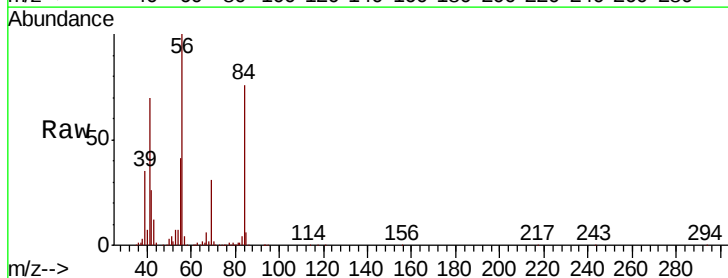
Manual Integrations
APPROVED

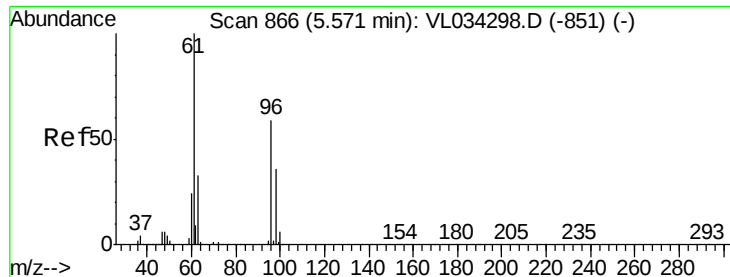
MMDadoda
10/22/2019 2:56:28 PM



#30
Cyclohexane
Concen: 12.415 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 84 Resp: 826574
Ion Ratio Lower Upper
84 100
56 142.0 119.4 179.0
41 91.0 78.7 118.1





#31

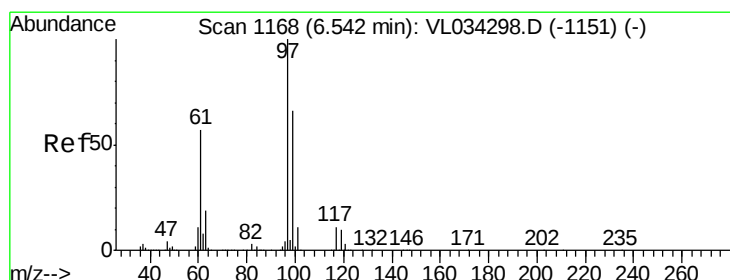
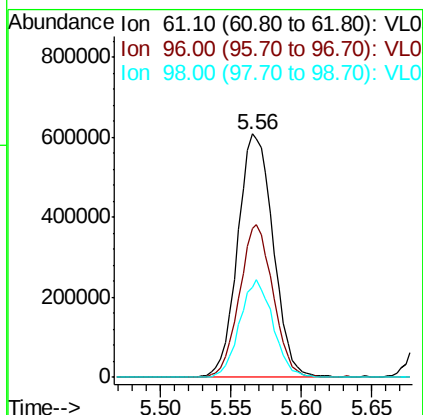
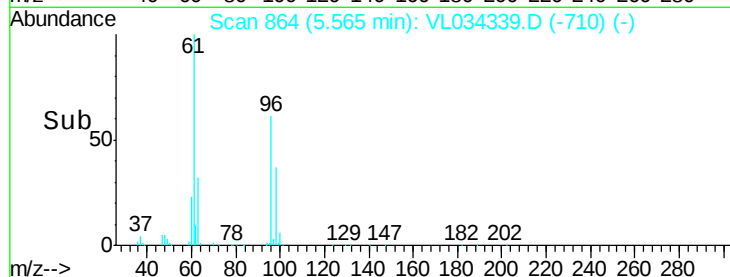
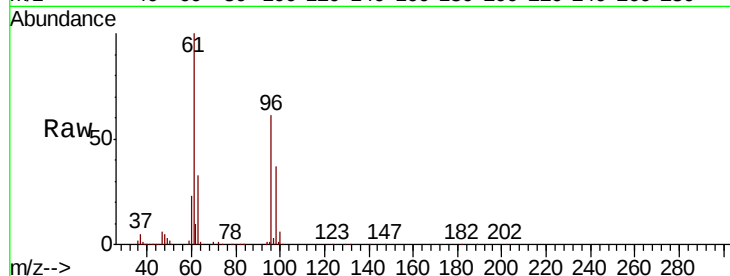
cis-1,2-Dichloroethene
Concen: 11.682 ppbv
RT: 5.56 min Scan# 864
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.4	47.5	71.3
98	37.0	28.8	43.2

Manual Integrations
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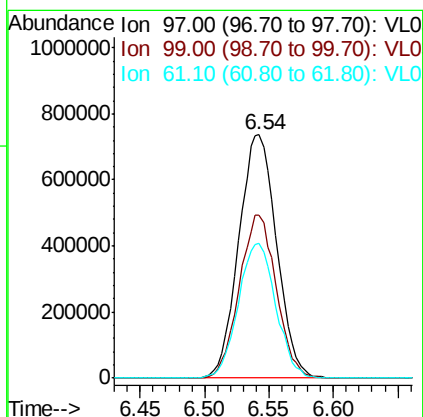
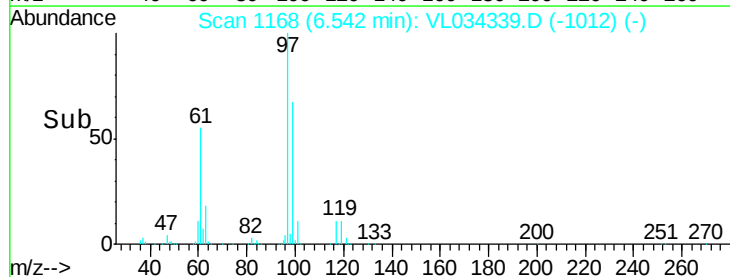
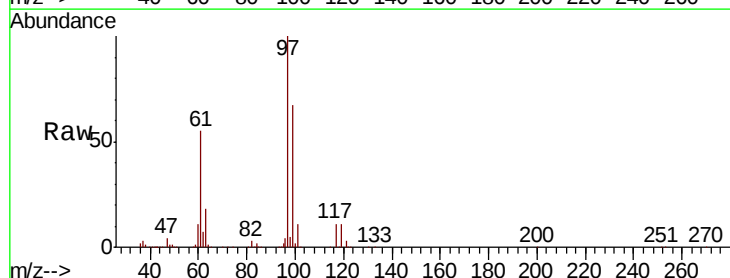
MMDadoda
10/22/2019 2:56:28 PM

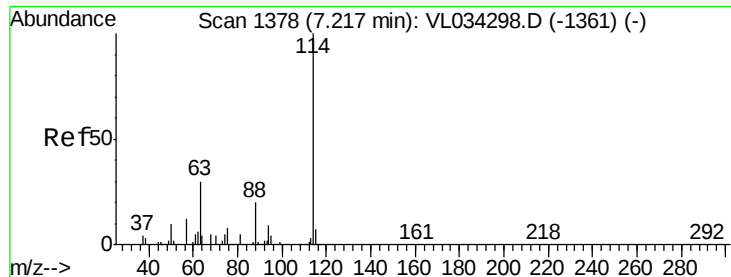


#32

1,1,1-Trichloroethane
Concen: 10.828 ppbv
RT: 6.54 min Scan# 1168
Delta R.T. 0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.6	78.8
61	55.0	44.5	66.7





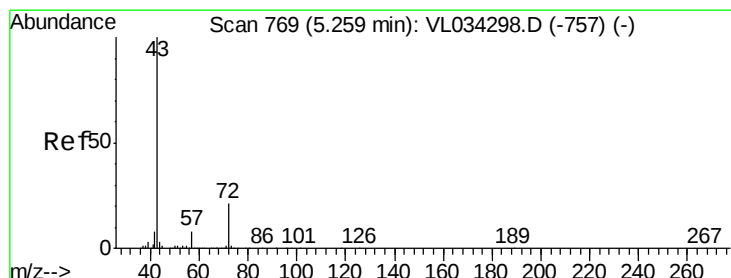
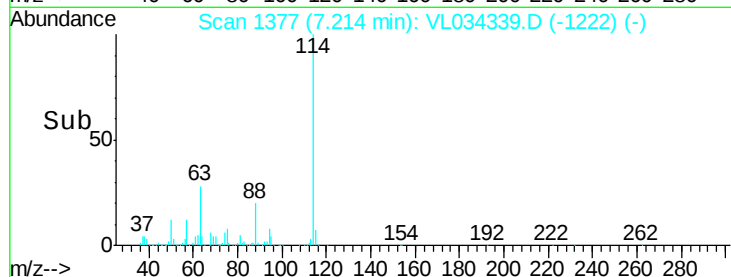
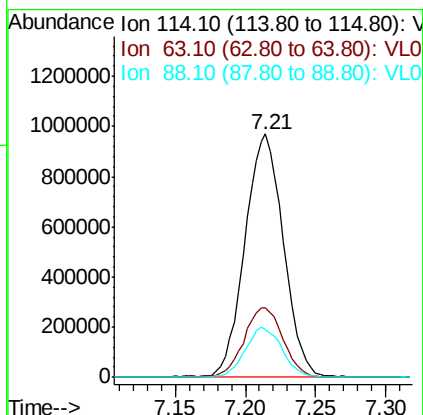
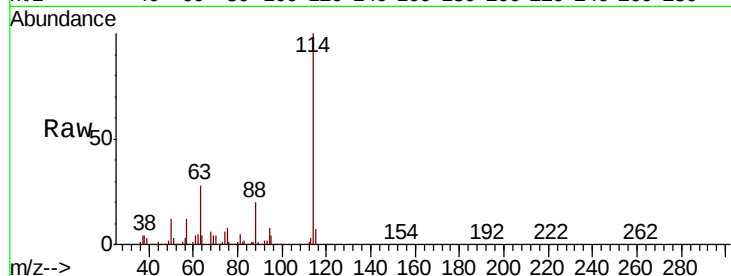
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.6	25.2	37.8
88	19.7	16.0	24.0

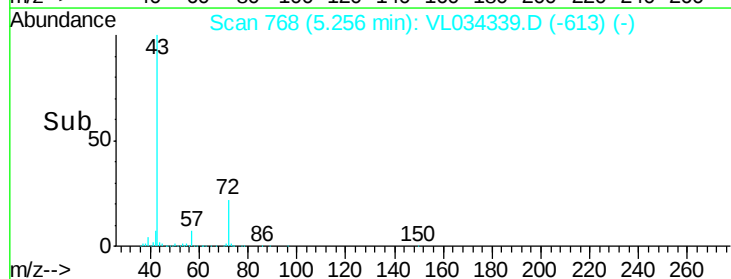
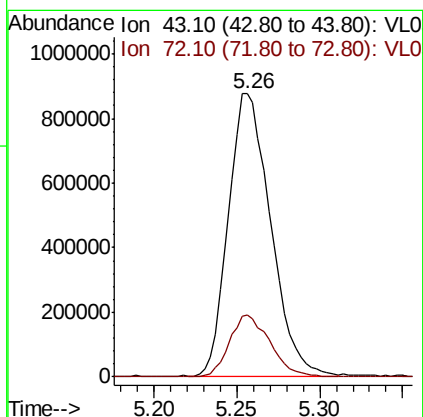
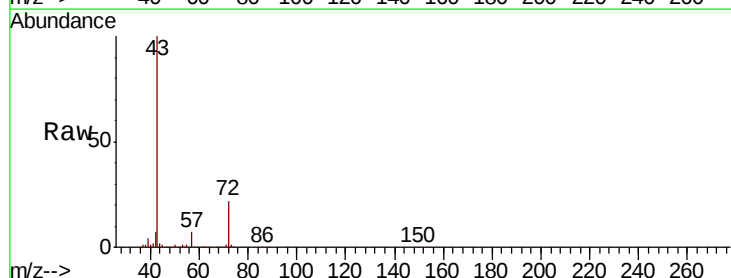
Manual Integrations
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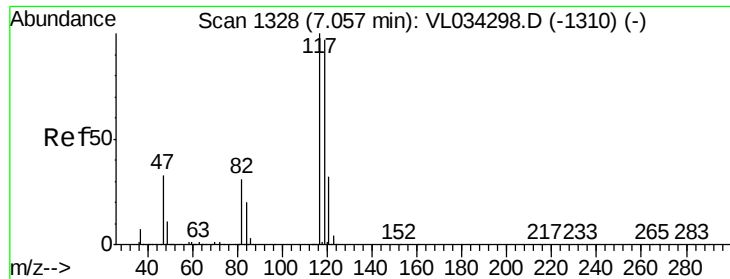
MMDadoda
 10/22/2019 2:56:28 PM



#34
 2-Butanone
 Concen: 10.268 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	16.3	24.5





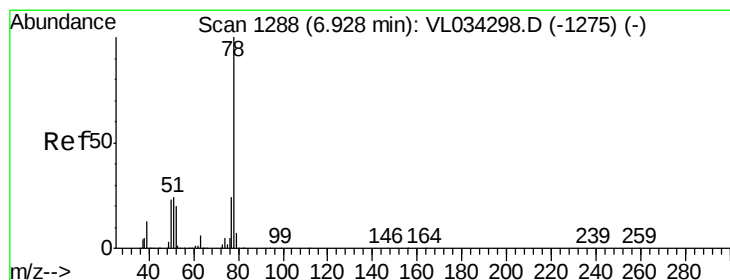
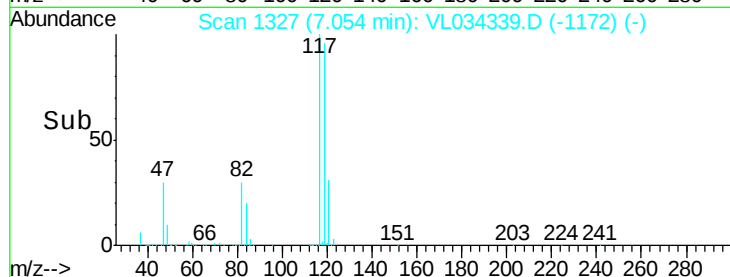
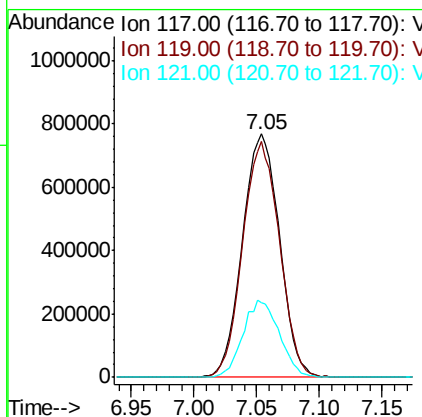
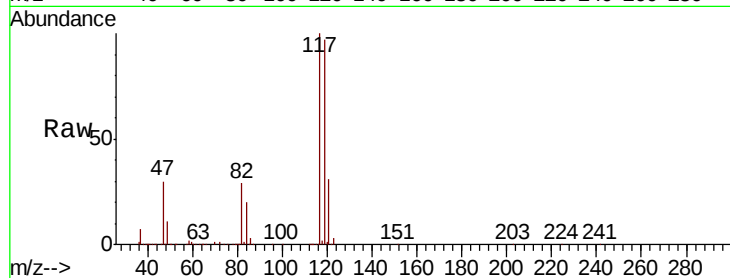
#35
Carbon Tetrachloride
Concen: 9.790 ppbv
RT: 7.05 min Scan# 1327
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.3	115.9
121	30.6	25.5	38.3

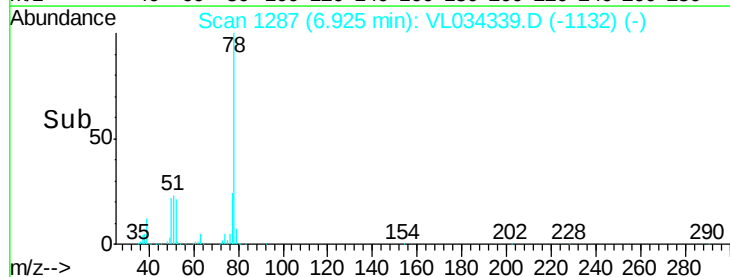
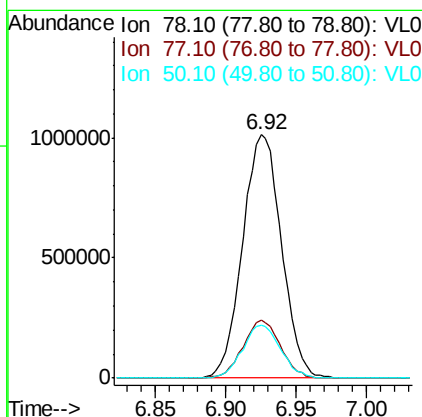
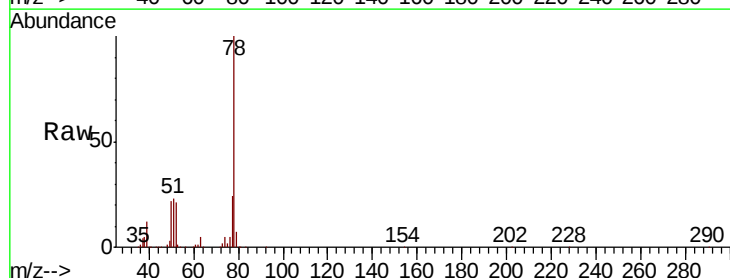
Manual Integrations
APPROVED

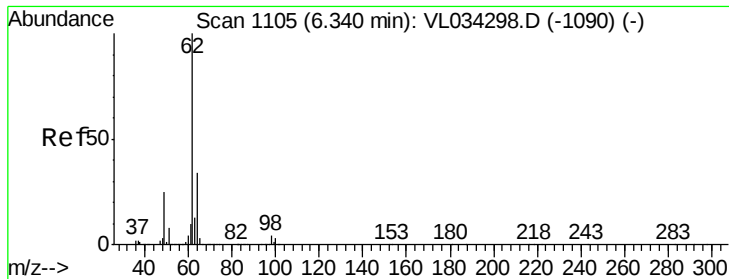
MMDadoda
10/22/2019 2:56:28 PM



#36
Benzene
Concen: 11.047 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4
50	21.7	18.6	27.8





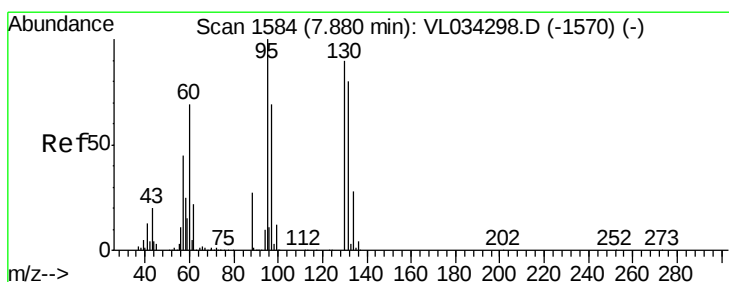
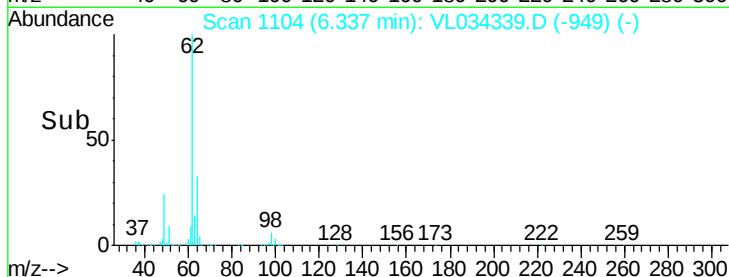
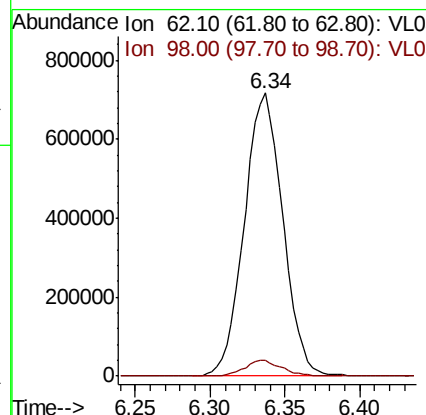
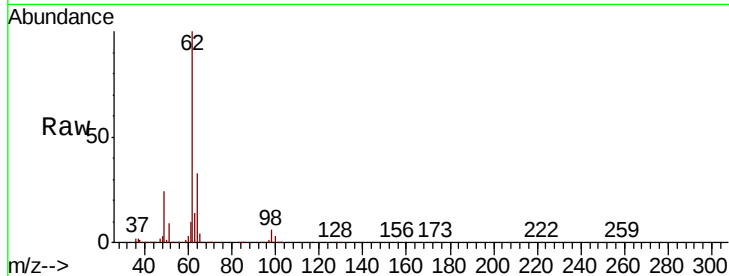
#37
 1,2-Dichloroethane
 Concen: 9.711 ppbv
 RT: 6.34 min Scan# 1104
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion: 62 Resp: 1283603
 Ion Ratio Lower Upper
 62 100
 98 5.4 3.8 5.6

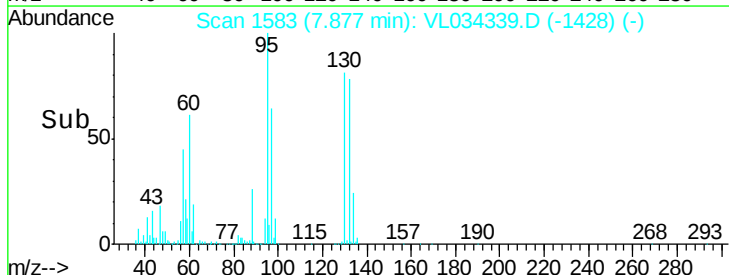
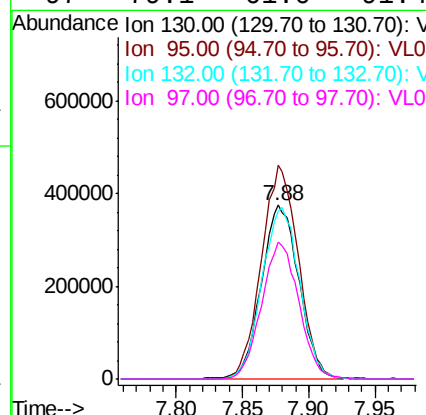
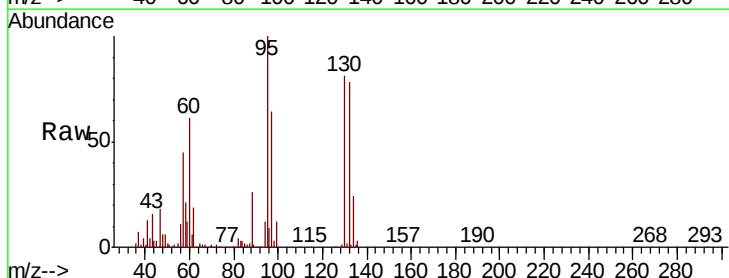
Manual Integrations
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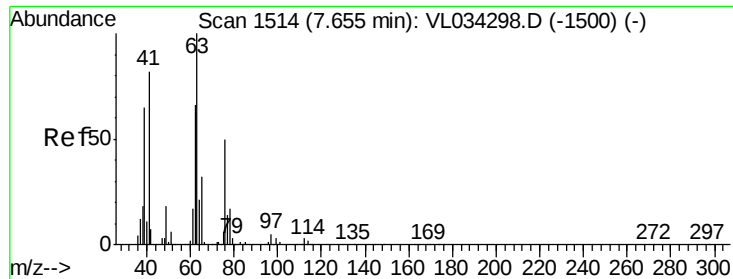
MMDadoda
 10/22/2019 2:56:28 PM



#38
 Trichloroethene
 Concen: 10.354 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion: 130 Resp: 736924
 Ion Ratio Lower Upper
 130 100
 95 122.9 88.6 132.8
 132 96.5 71.2 106.8
 97 79.1 61.0 91.4





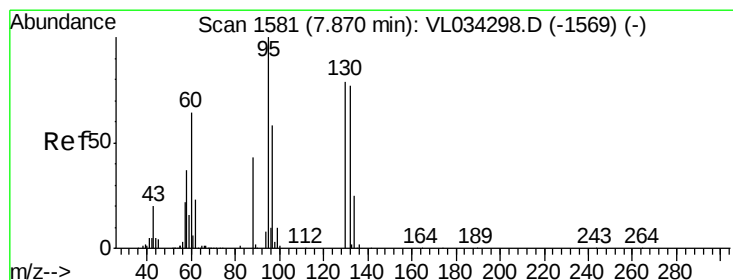
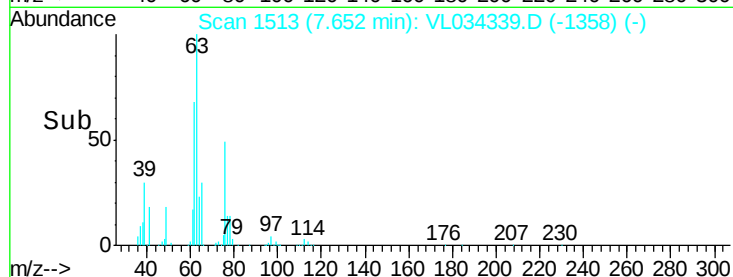
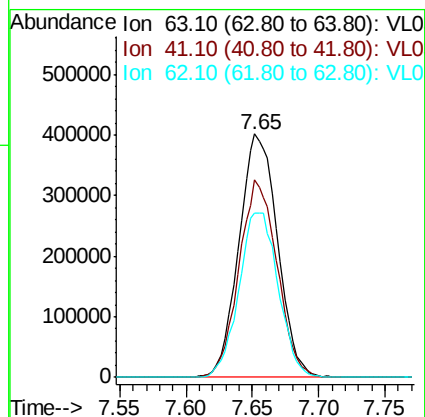
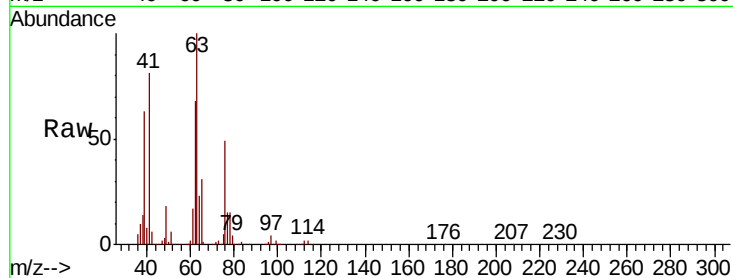
#39
 1,2-Dichloropropane
 Concen: 10.600 ppbv
 RT: 7.65 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	81.0	65.6	98.4
62	67.7	53.0	79.6

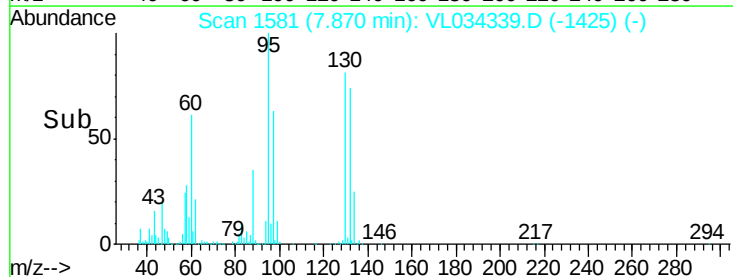
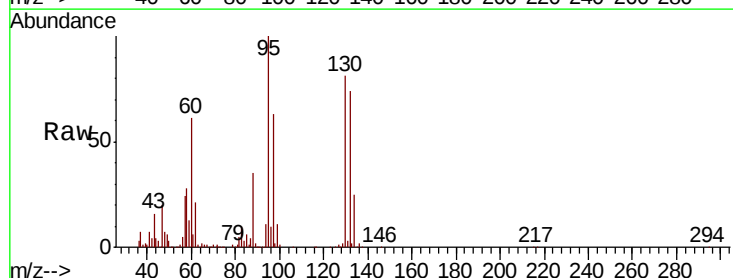
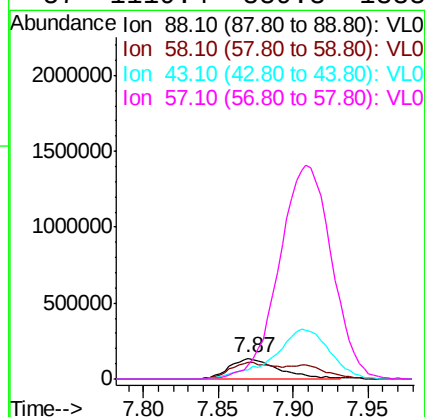
Manual Integrations
 APPROVED

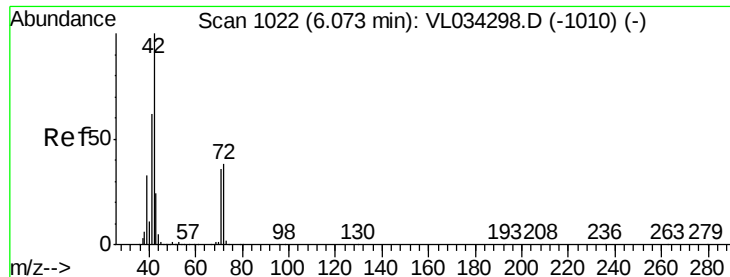
MMDadoda
 10/22/2019 2:56:28 PM



#40
 1,4-Dioxane
 Concen: 11.420 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.1	110.3	165.5
43	275.9	228.1	342.1
57	1119.4	889.3	1333.9





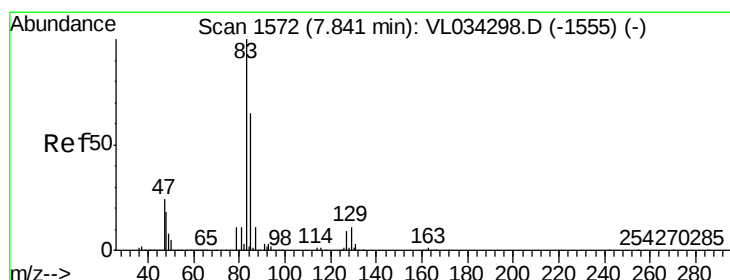
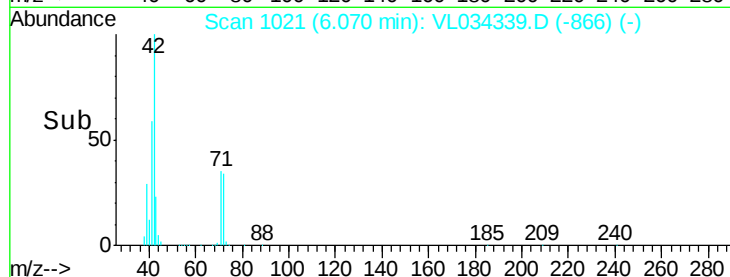
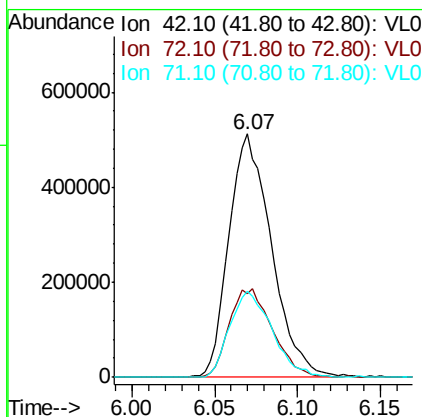
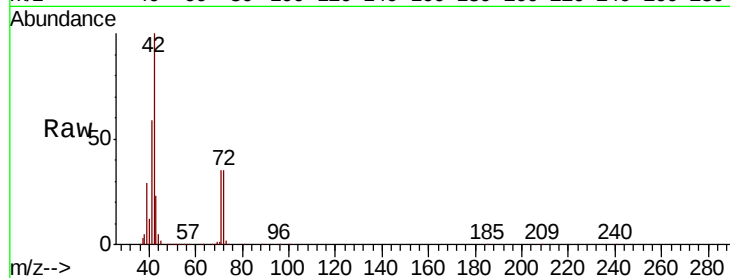
#41
Tetrahydrofuran
Concen: 10.900 ppbv
RT: 6.07 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	28.0	42.0
71	35.7	27.3	40.9

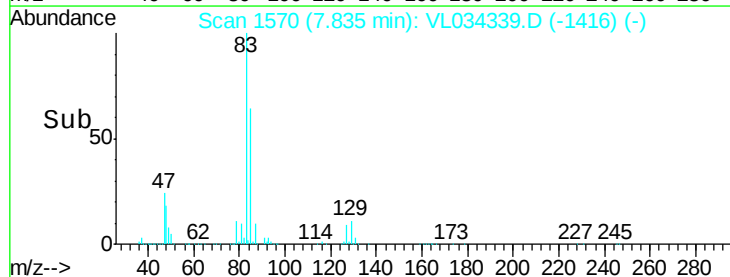
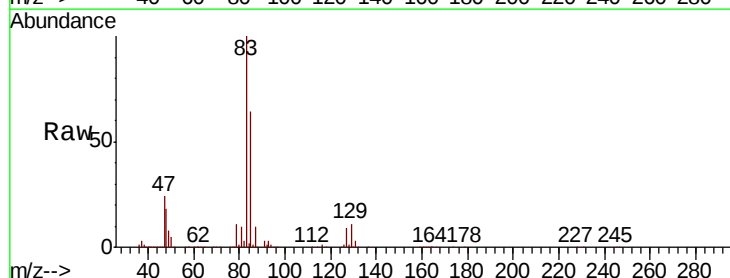
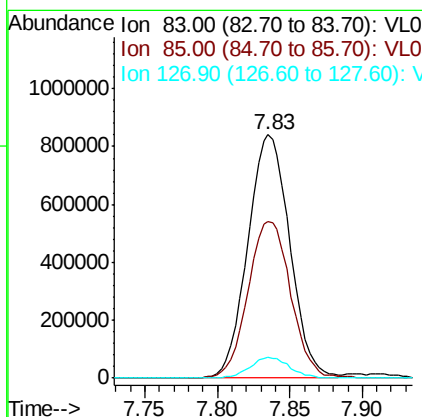
Manual Integrations
APPROVED

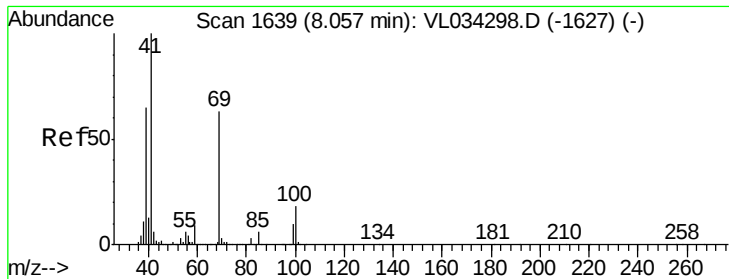
MMDadoda
10/22/2019 2:56:28 PM



#42
Bromodichloromethane
Concen: 10.481 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6
127	8.6	7.0	10.6





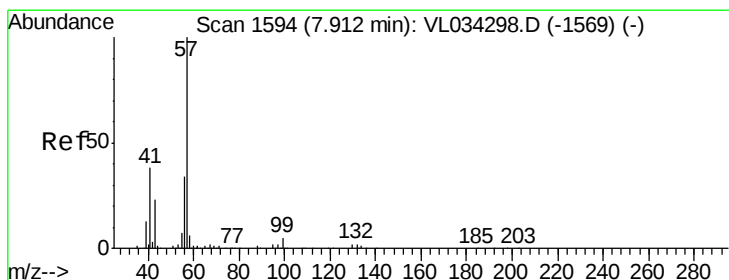
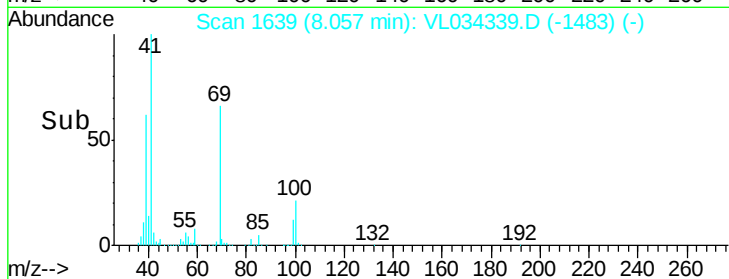
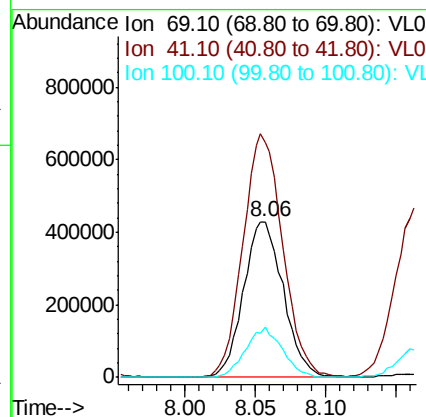
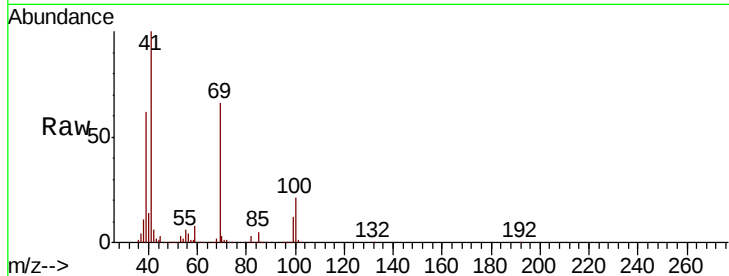
#43
Methyl Methacrylate
Concen: 11.560 ppbv
RT: 8.06 min Scan# 1639
Delta R.T. 0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	156.7	132.1	198.1	
100	29.7	23.2	34.8	

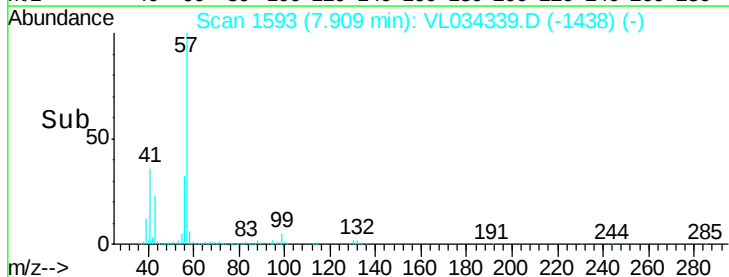
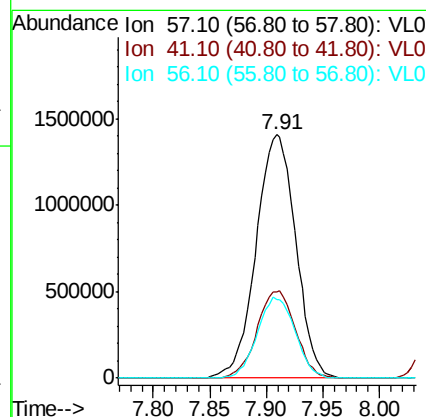
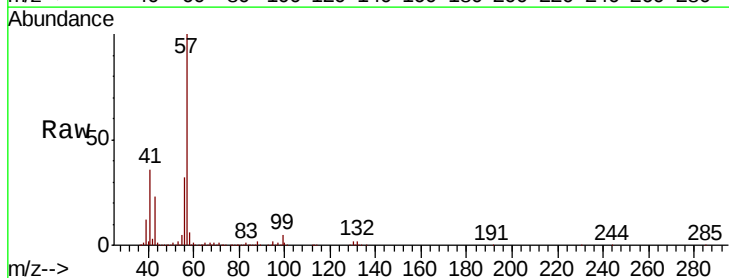
Manual Integrations
APPROVED

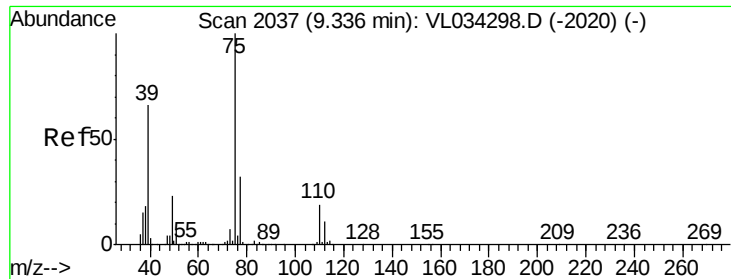
MMDadoda
10/22/2019 2:56:28 PM



#44
2,2,4-Trimethylpentane
Concen: 10.424 ppbv
RT: 7.91 min Scan# 1593
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.9	29.3	43.9	
56	31.6	25.3	37.9	





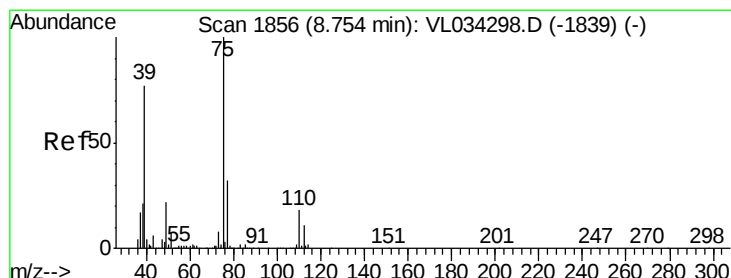
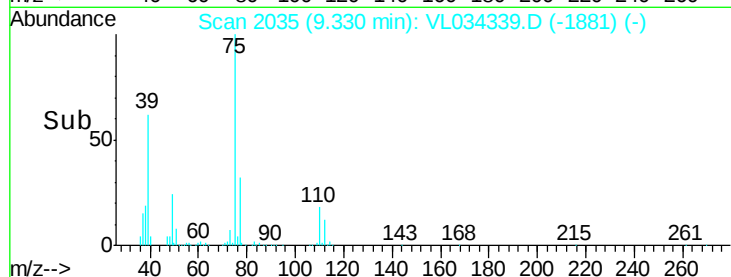
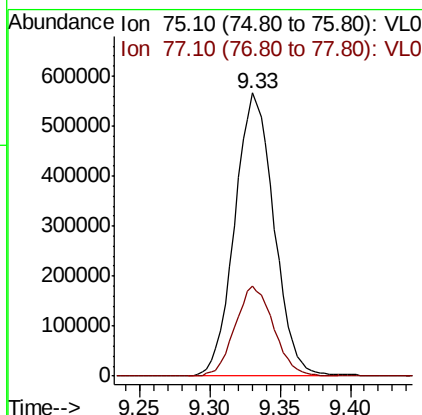
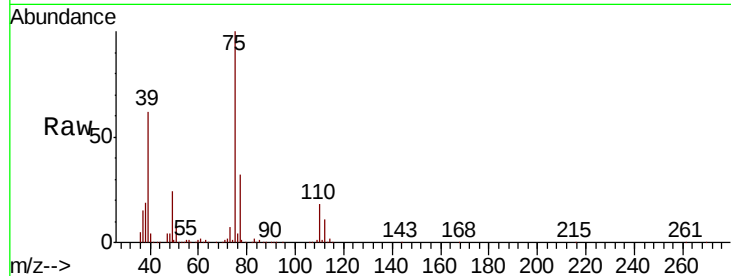
#45
t-1,3-Dichloropropene
Concen: 12.320 ppbv
RT: 9.33 min Scan# 2035
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 75 Resp: 1101091
Ion Ratio Lower Upper
75 100
77 31.7 25.6 38.4

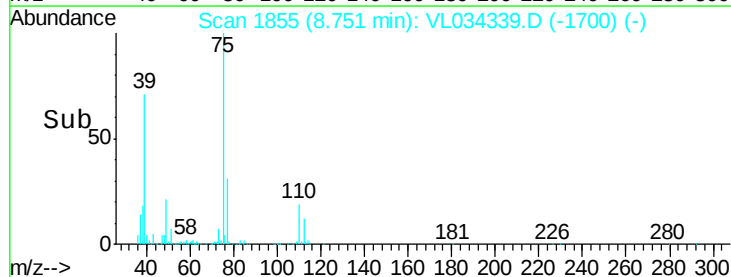
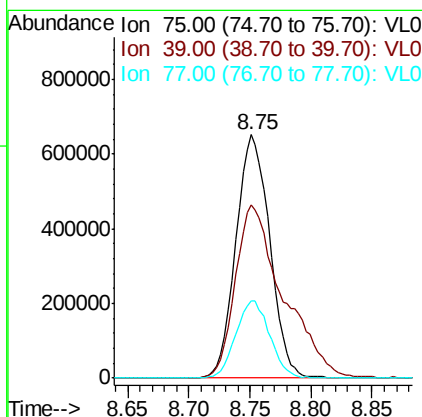
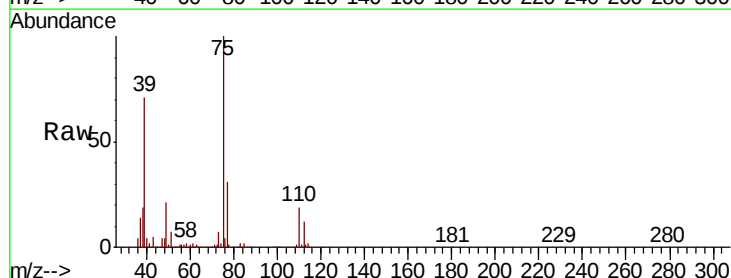
Manual Integrations
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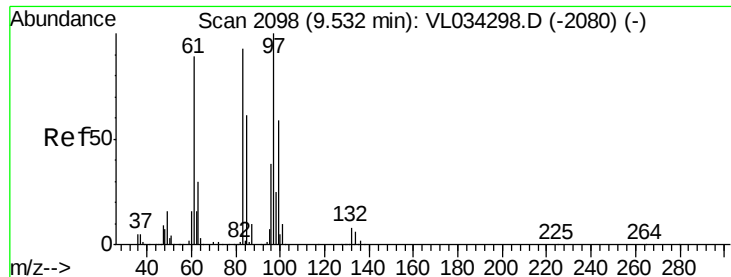
MMDadoda
10/22/2019 2:56:28 PM



#46
cis-1,3-Dichloropropene
Concen: 12.174 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 75 Resp: 1250022
Ion Ratio Lower Upper
75 100
39 71.0 61.2 91.8
77 31.5 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 10.537 ppbv

RT: 9.53 min Scan# 2098

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

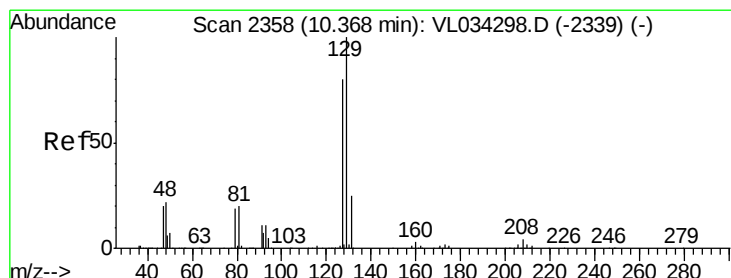
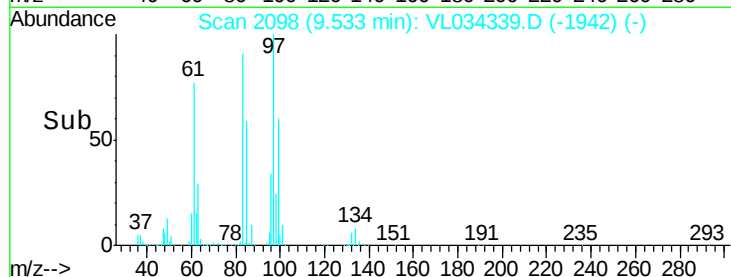
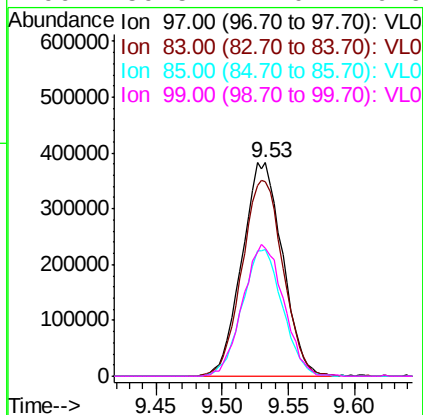
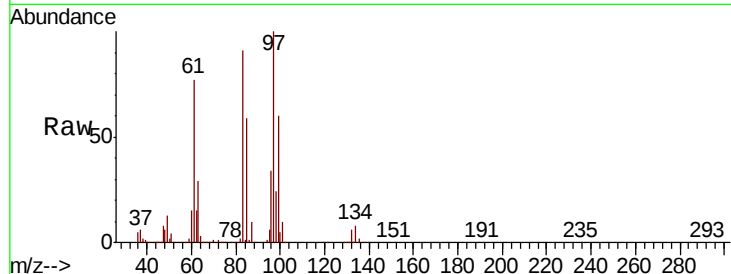
ClientSampleId :

VL1017SABS01

Tot Ion:	97	Resp:	815129
Ion	Ratio	Lower	Upper
97	100		
83	91.1	74.2	111.2
85	59.1	48.6	73.0
99	59.5	47.0	70.6

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10/22/2019 2:56:28 PM



#48

Dibromochloromethane

Concen: 11.167 ppbv

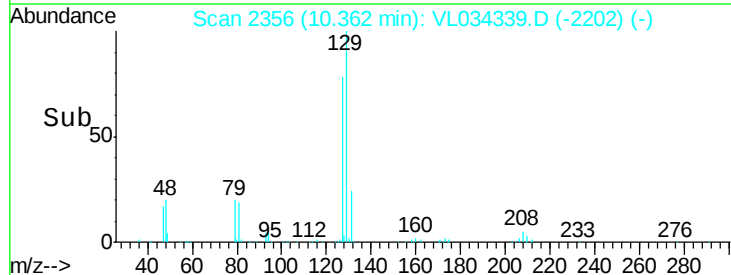
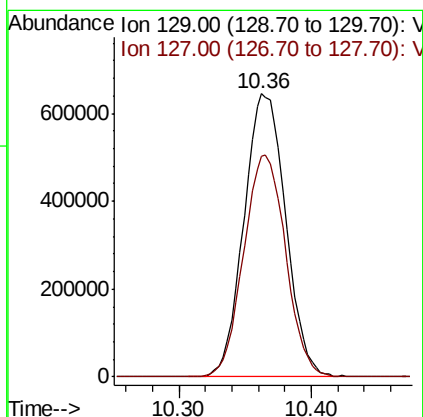
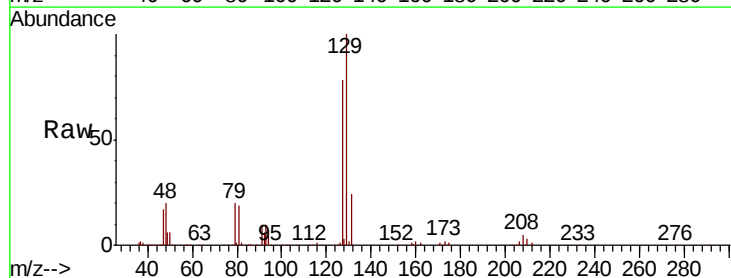
RT: 10.36 min Scan# 2356

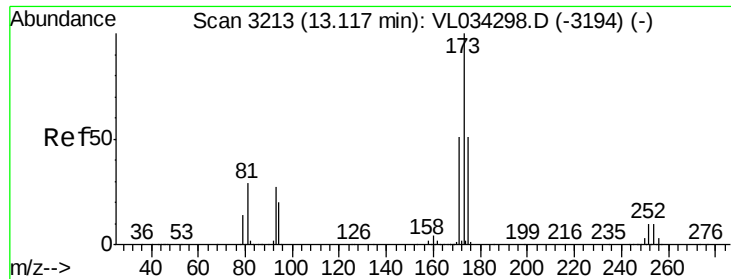
Delta R.T. -0.01 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Tgt Ion:	129	Resp:	1417097
Ion	Ratio	Lower	Upper
129	100		
127	78.9	39.7	119.1





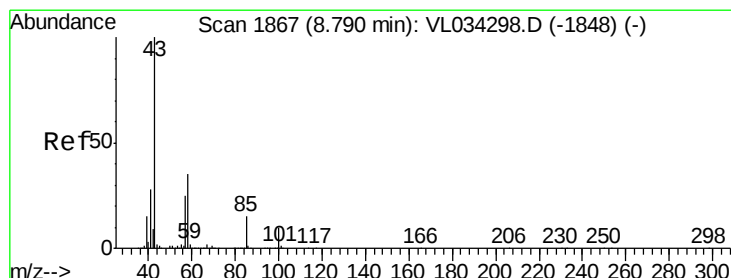
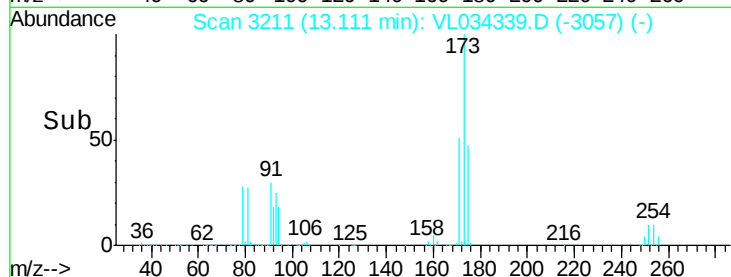
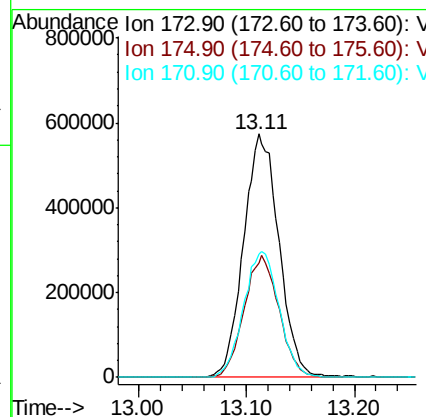
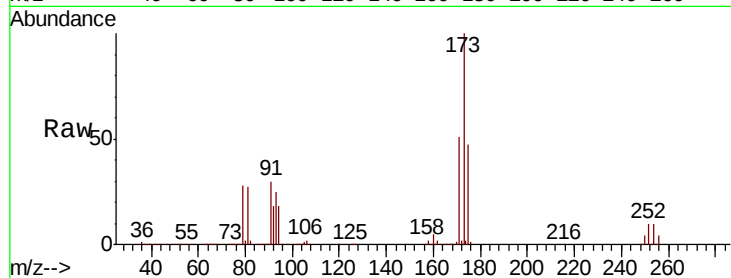
#49
Bromoform
Concen: 11.613 ppbv
RT: 13.11 min Scan# 3211
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	39.8	59.6
171	52.6	41.8	62.6

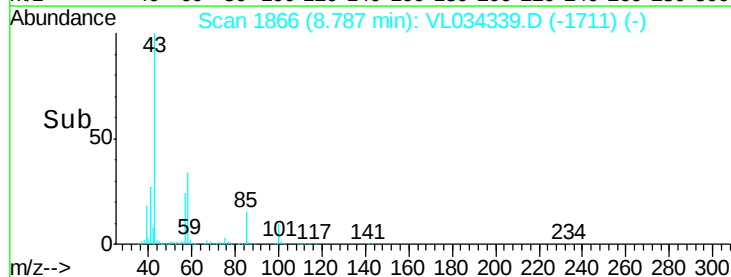
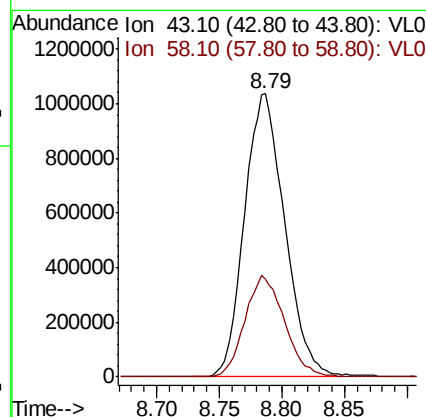
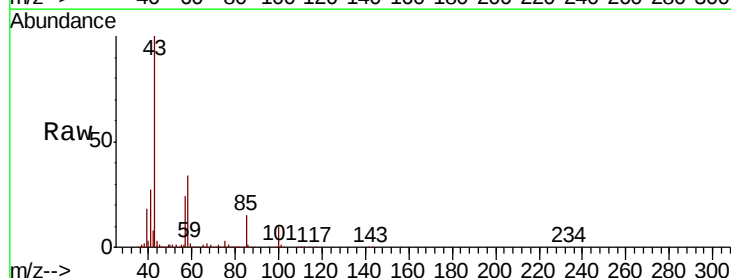
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APPROVED

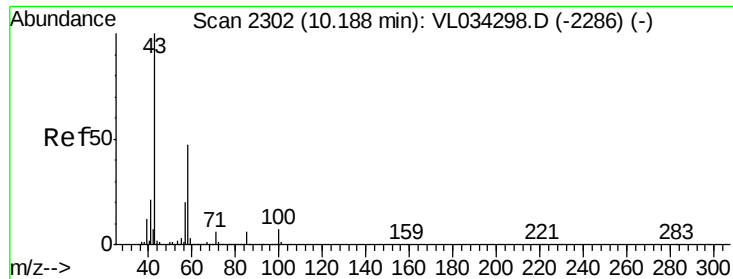
MMDadoda
10/22/2019 2:56:28 PM



#50
4-Methyl-2-Pentanone
Concen: 10.692 ppbv
RT: 8.79 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.2	27.6	41.4





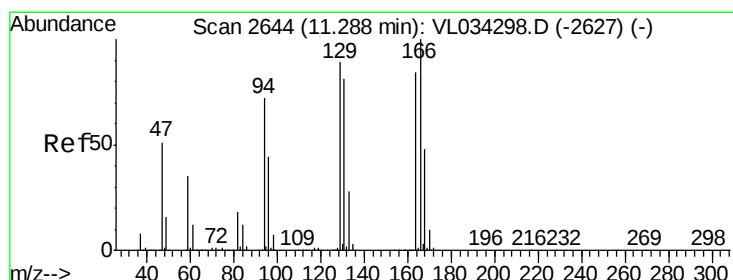
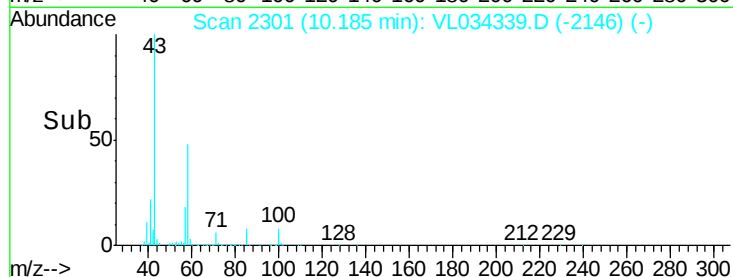
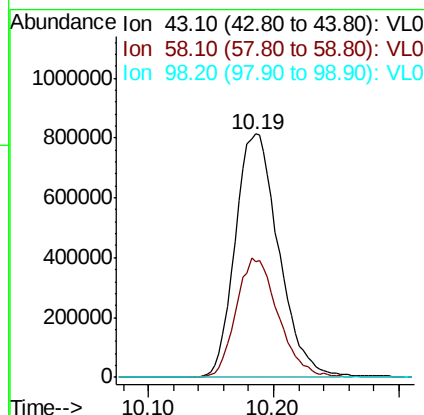
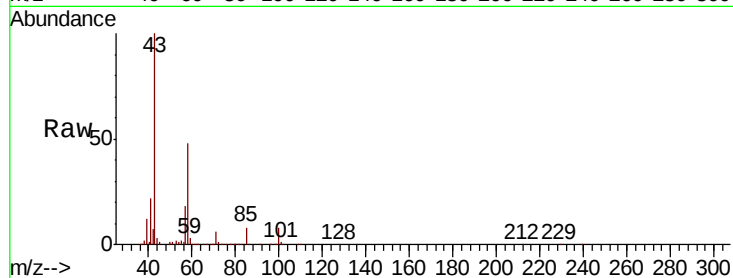
#51
2-Hexanone
Concen: 11.021 ppbv
RT: 10.19 min Scan# 2301
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 43 Resp: 1954268
Ion Ratio Lower Upper
43 100
58 47.8 37.0 55.6
98 0.2 0.2 0.2

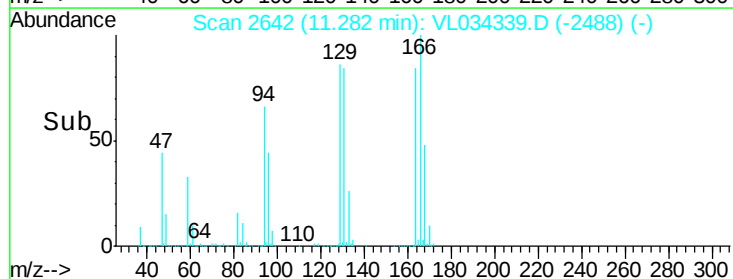
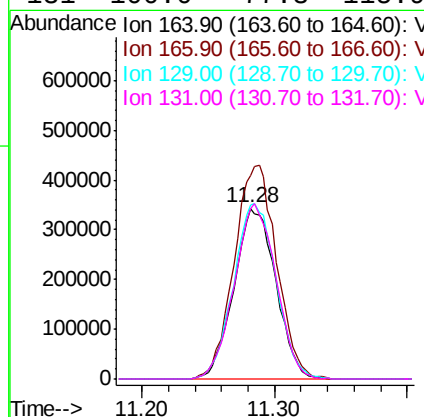
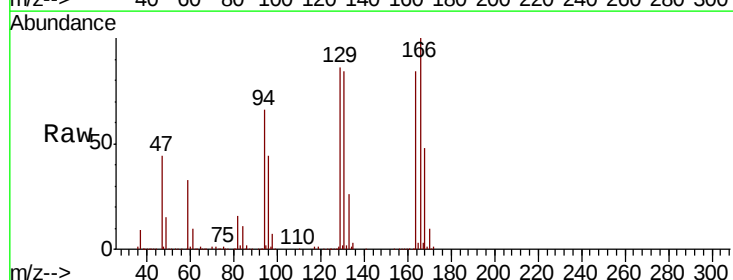
Manual Integrations
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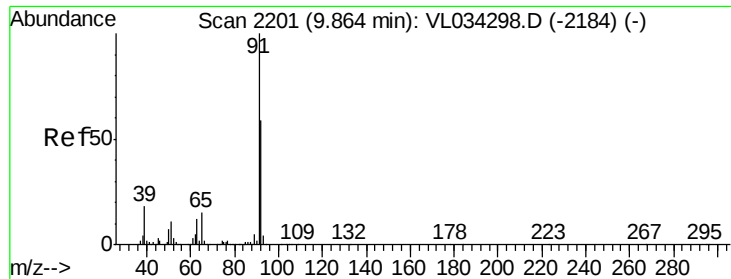
MMDadoda
10/22/2019 2:56:28 PM



#52
Tetrachloroethene
Concen: 10.733 ppbv
RT: 11.28 min Scan# 2642
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 164 Resp: 746168
Ion Ratio Lower Upper
164 100
166 118.9 95.3 142.9
129 102.0 84.5 126.7
131 100.0 77.3 115.9





#53

Toluene

Concen: 11.614 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 91 Resp: 2273216

Ion Ratio Lower Upper

91 100

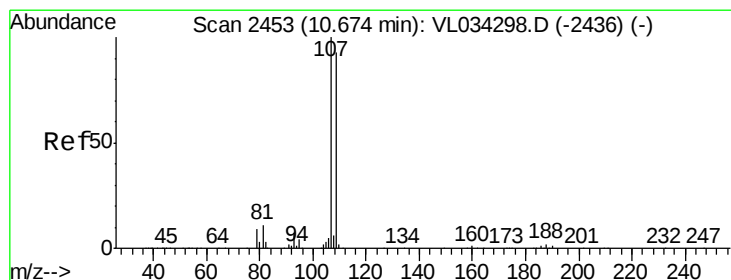
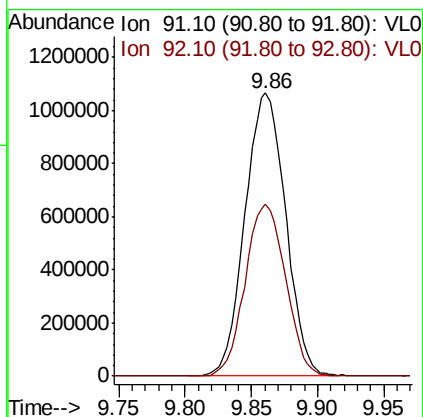
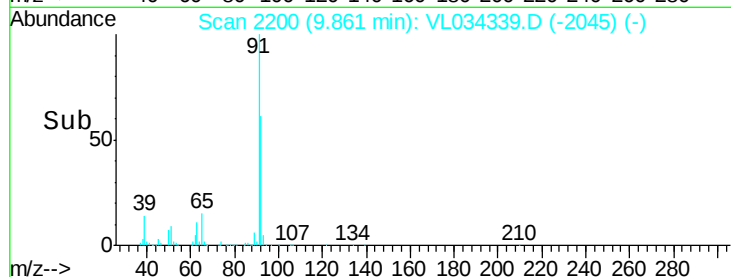
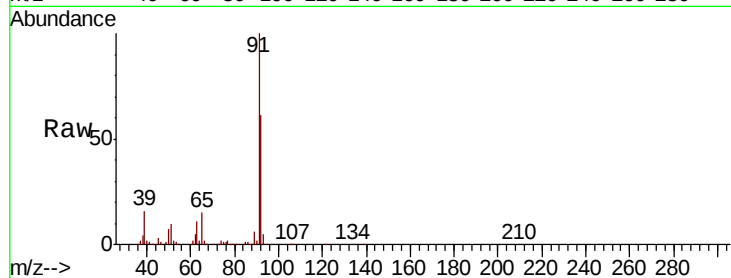
92 60.5 48.4 72.6

Manual Integrations

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MMDadoda

10/22/2019 2:56:28 PM



#54

1,2-Dibromoethane

Concen: 10.773 ppbv

RT: 10.67 min Scan# 2453

Delta R.T. 0.00 min

Lab File: VL034339.D

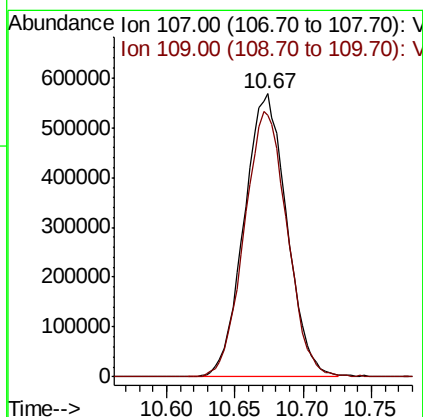
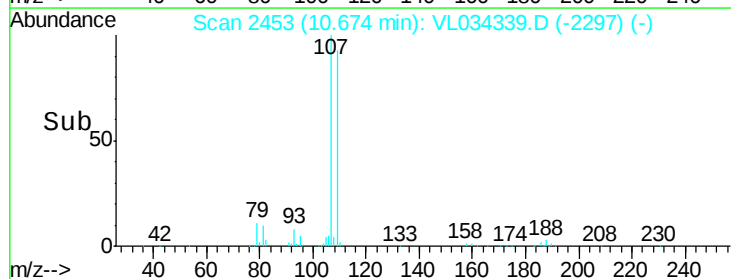
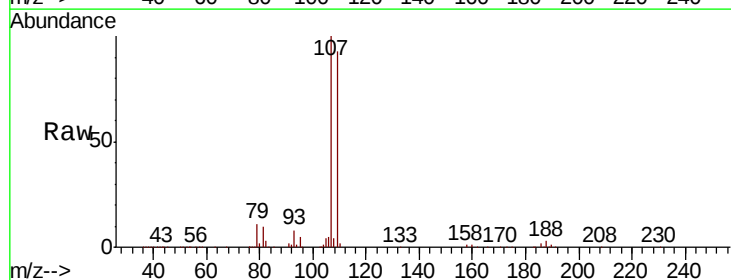
Acq: 18 Oct 2019 11:26

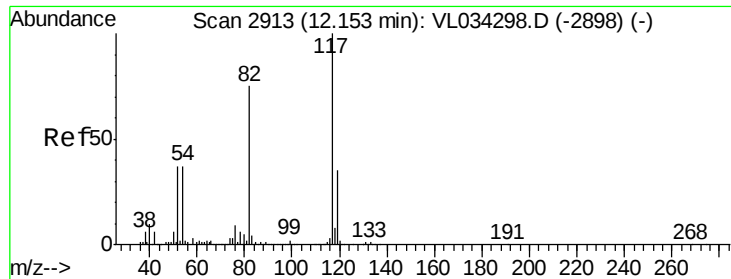
Tgt Ion: 107 Resp: 1235209

Ion Ratio Lower Upper

107 100

109 92.5 74.6 112.0





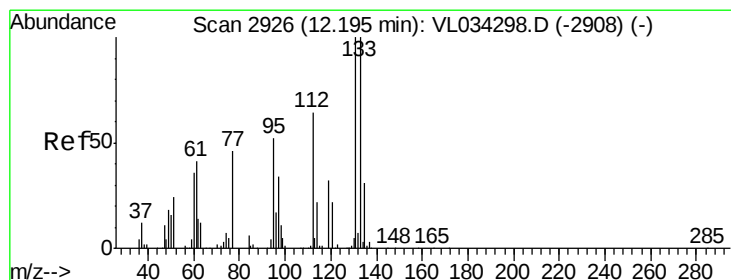
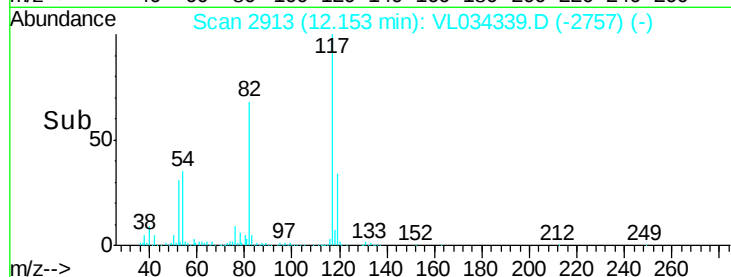
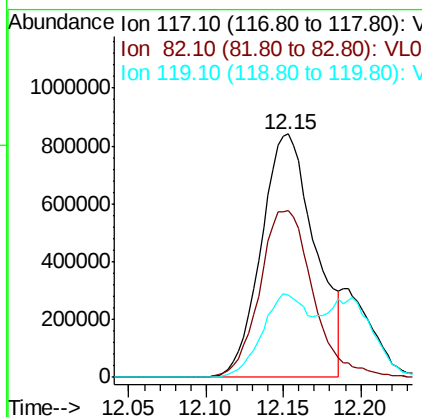
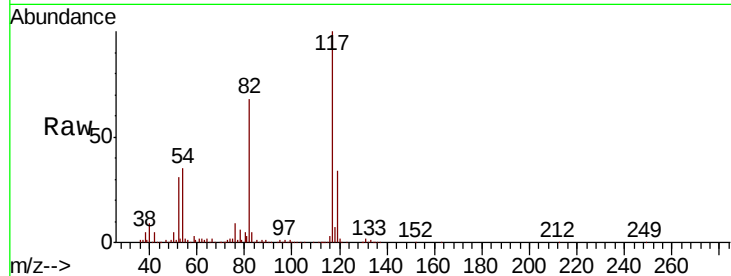
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.4	55.5	83.3
119	29.1	26.5	39.7

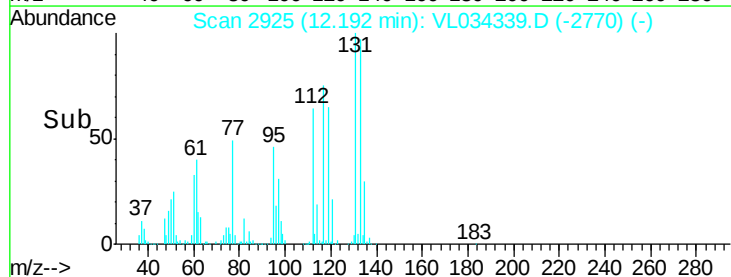
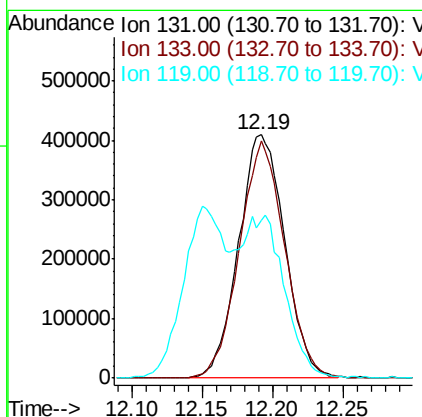
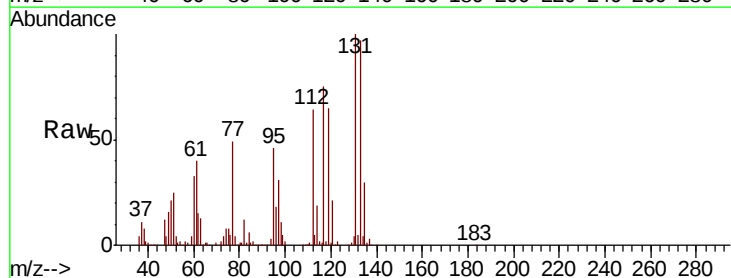
Manual Integrations
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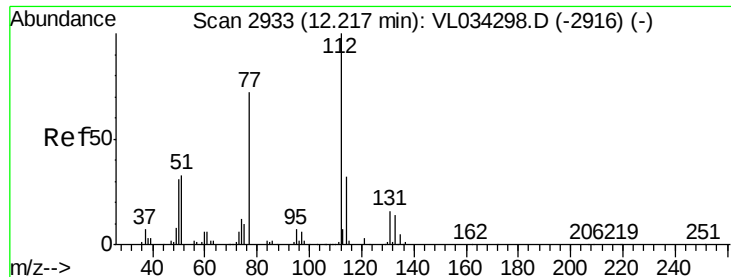
MMDadoda
10/22/2019 2:56:28 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.987 ppbv
RT: 12.19 min Scan# 2925
Delta R.T. -0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.9	77.1	115.7
119	70.4	49.0	73.4





#57

Chlorobenzene

Concen: 9.920 ppbv

RT: 12.21 min Scan# 2932

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion:112 Resp: 1686563

Ion Ratio Lower Upper

112 100

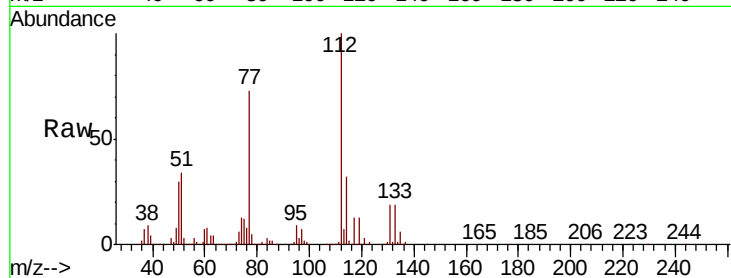
77 72.1 58.6 88.0

114 31.4 28.6 35.0

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MMDadoda

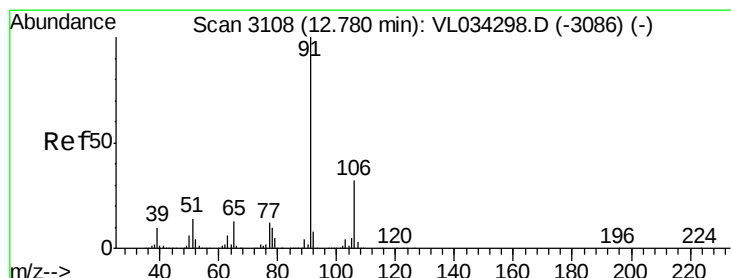
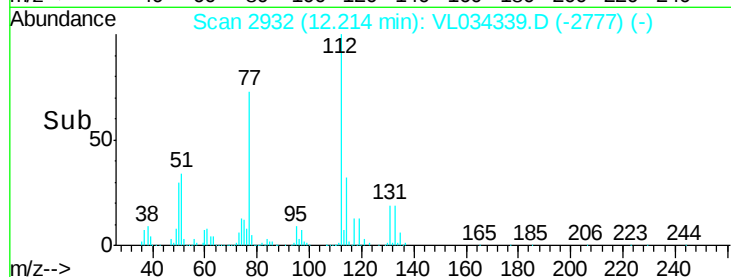
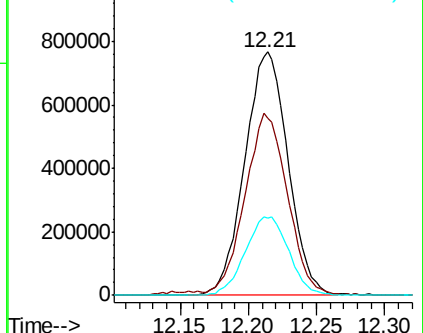
10/22/2019 2:56:28 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.866 ppbv

RT: 12.78 min Scan# 3107

Delta R.T. -0.00 min

Lab File: VL034339.D

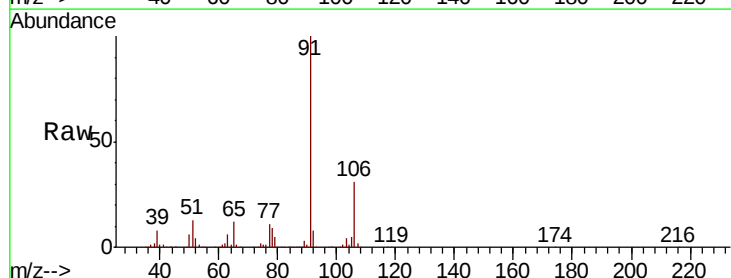
Acq: 18 Oct 2019 11:26

Tgt Ion: 91 Resp: 3095313

Ion Ratio Lower Upper

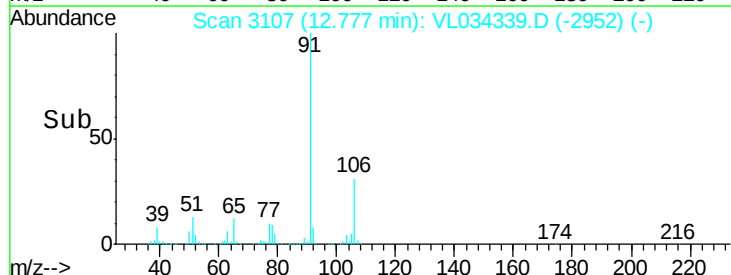
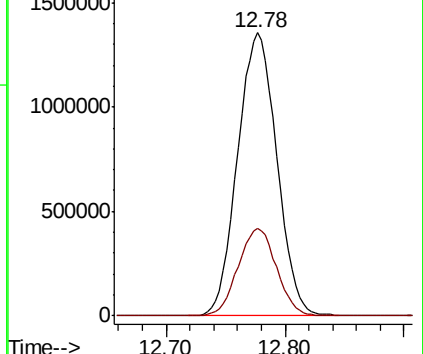
91 100

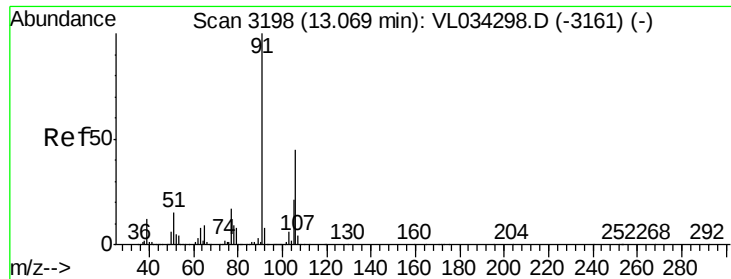
106 30.7 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





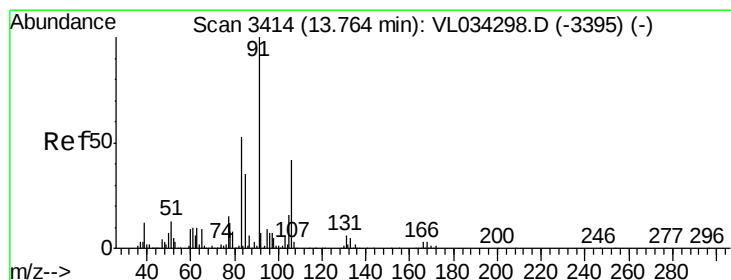
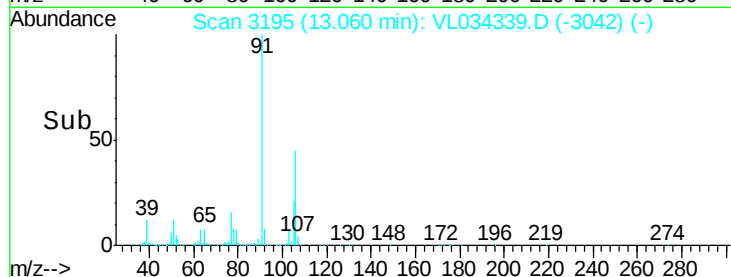
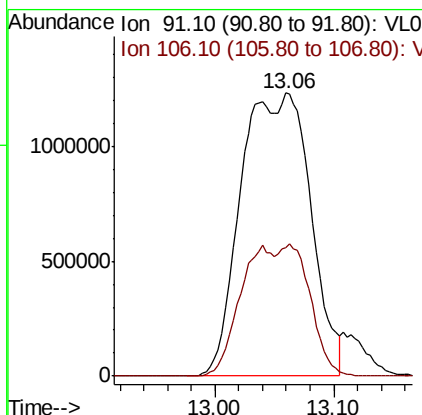
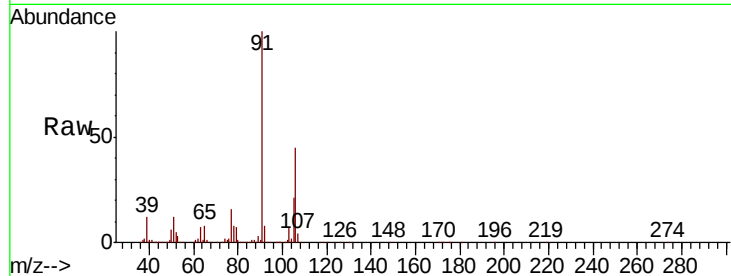
#59
m/p-Xylene
Concen: 20.450 ppbv m
RT: 13.06 min Scan# 3195
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion: 91 Resp: 5047445
Ion Ratio Lower Upper
91 100
106 44.8 35.4 53.2

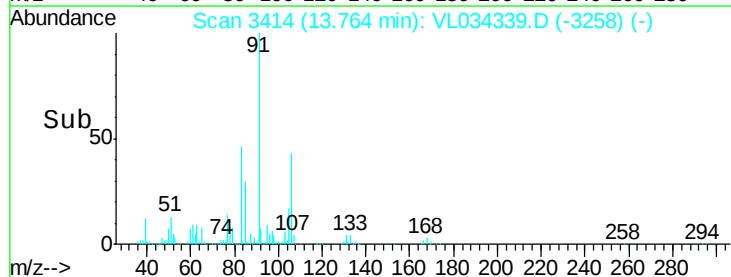
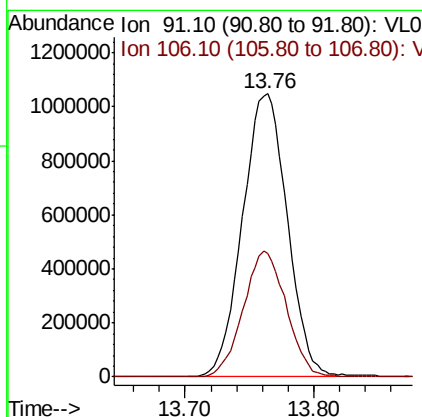
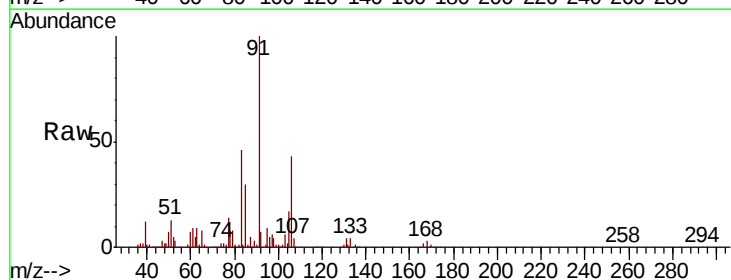
Manual Integrations
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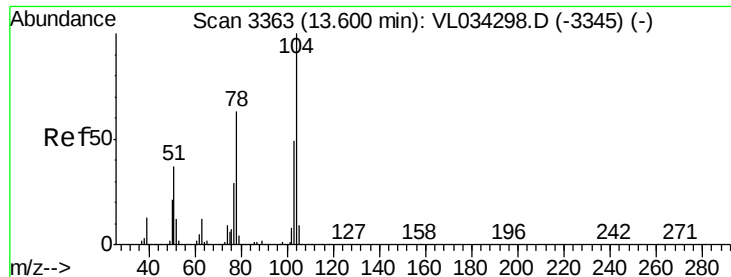
MMDadoda
10/22/2019 2:56:28 PM



#60
o-Xylene
Concen: 10.276 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. 0.00 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion: 91 Resp: 2525708
Ion Ratio Lower Upper
91 100
106 42.9 21.6 64.6





#61

Stvrene

Concen: 11.092 ppbv

RT: 13.60 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion:104 Resp: 1919225

Ion Ratio Lower Upper

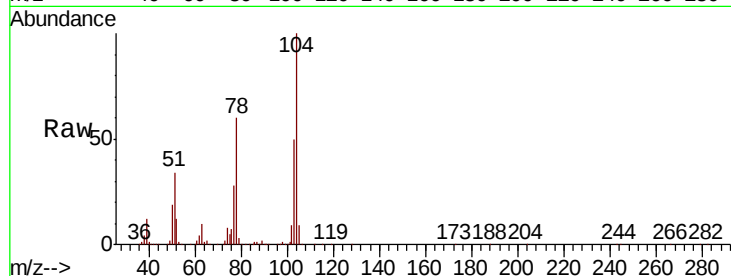
104 100

78 58.4 47.8 71.8

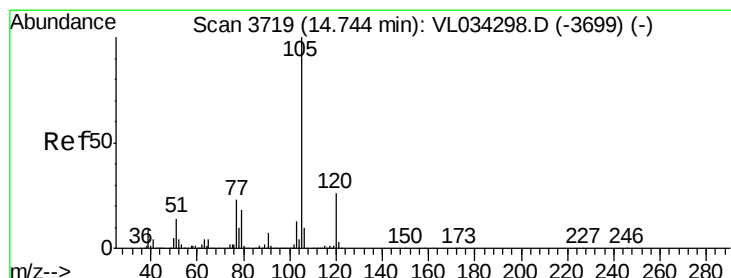
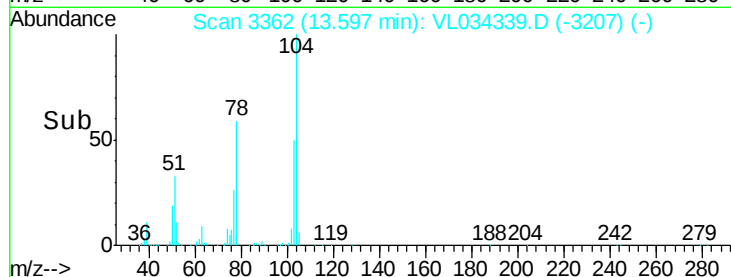
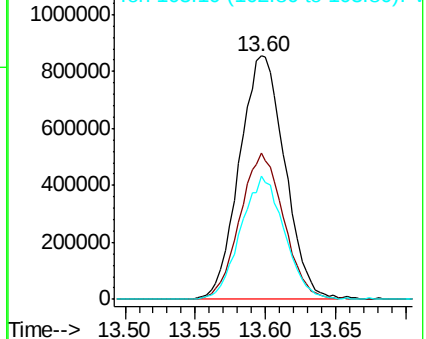
103 48.9 39.0 58.6

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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: 10.231 ppbv

RT: 14.74 min Scan# 3717

Delta R.T. -0.01 min

Lab File: VL034339.D

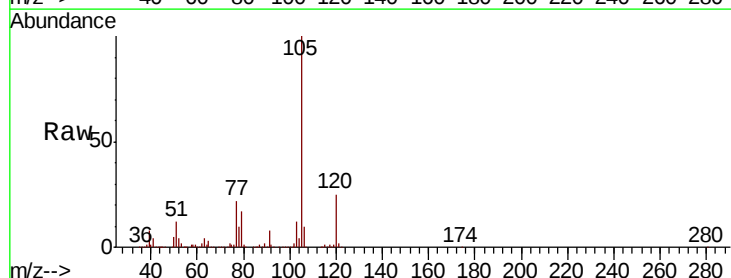
Acq: 18 Oct 2019 11:26

Tgt Ion:105 Resp: 3319456

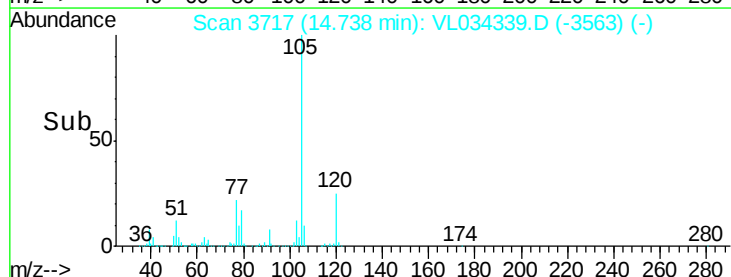
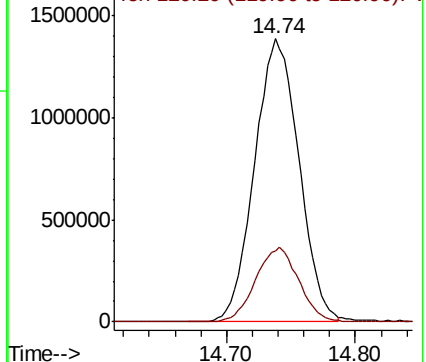
Ion Ratio Lower Upper

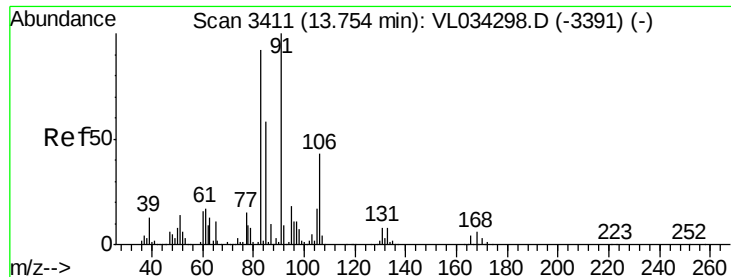
105 100

120 25.6 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





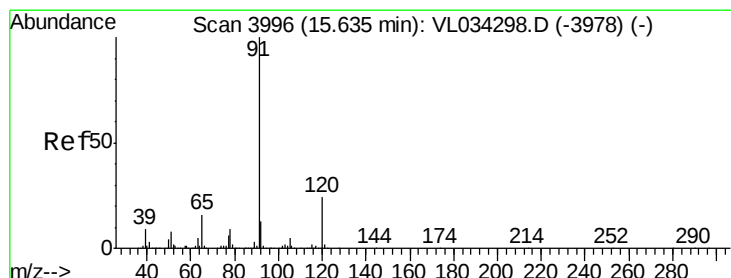
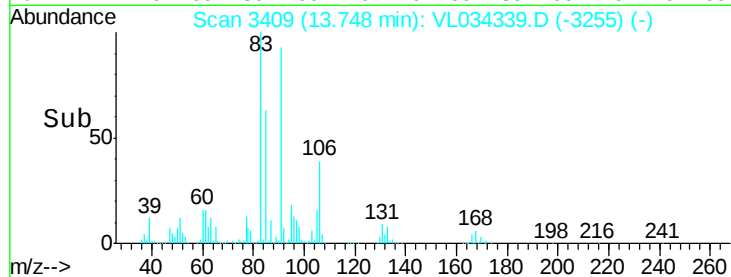
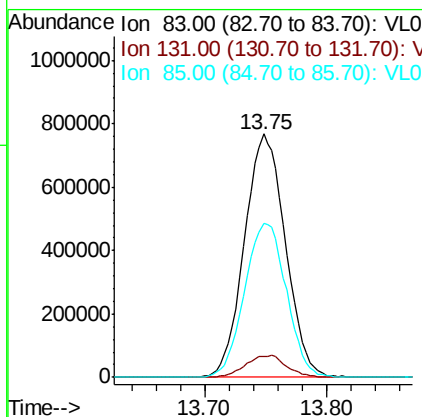
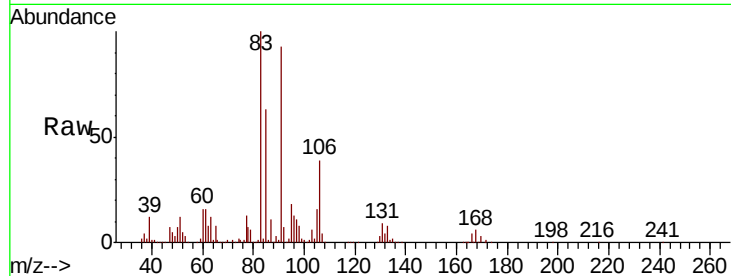
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.008 ppbv
 RT: 13.75 min Scan# 3409
 Delta R.T. -0.01 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion	83	Resp	1779177
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.8	14.4
85	65.0	32.5	97.4

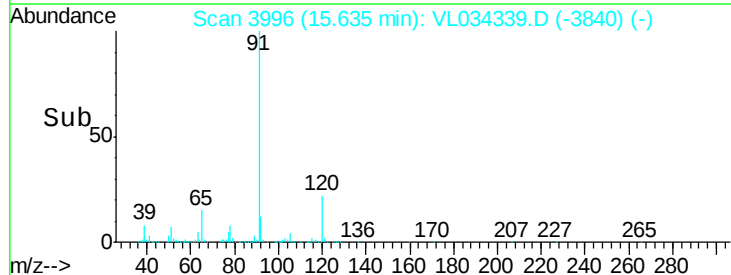
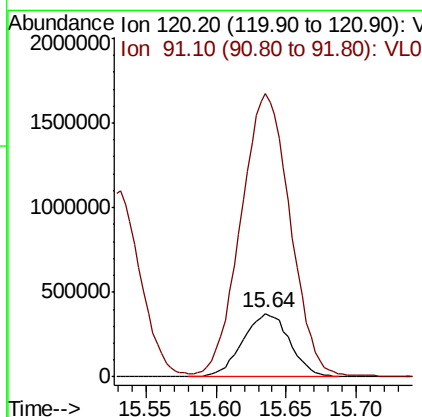
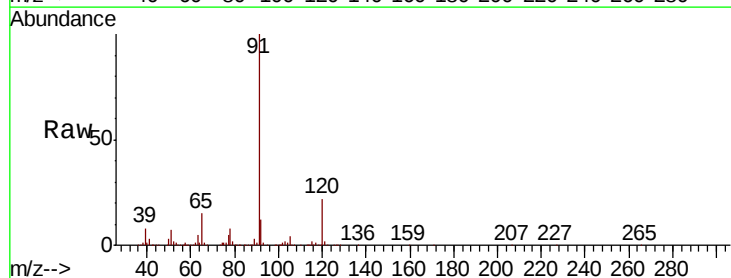
Manual Integrations
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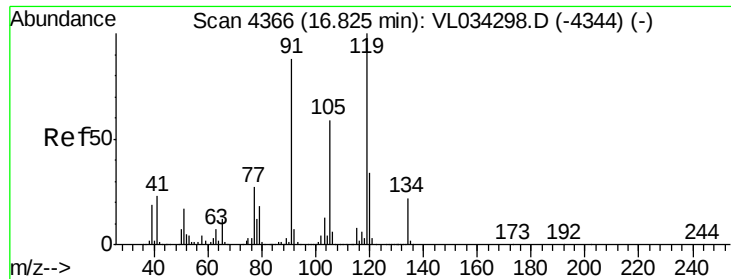
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 10/22/2019 2:56:28 PM



#64
 n-propylbenzene
 Concen: 10.525 ppbv
 RT: 15.64 min Scan# 3996
 Delta R.T. 0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion	120	Resp	876351
Ion	Ratio	Lower	Upper
120	100		
91	468.6	374.9	562.3





#65

tert-Butylbenzene

Concen: 10.217 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion:119 Resp: 2938037

Ion Ratio Lower Upper

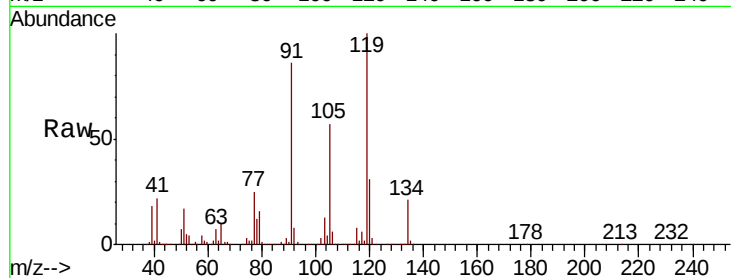
119 100

91 88.5 71.4 107.0

134 19.8 15.9 23.9

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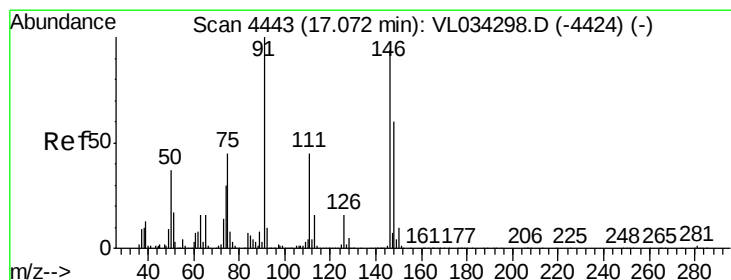
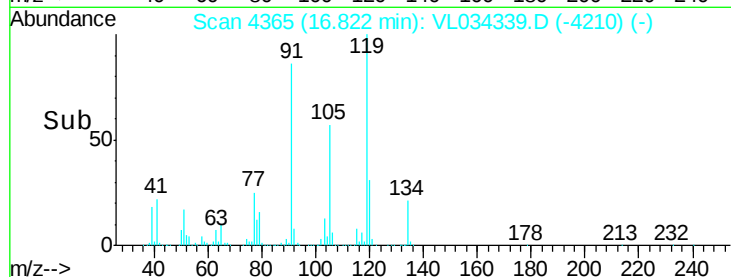
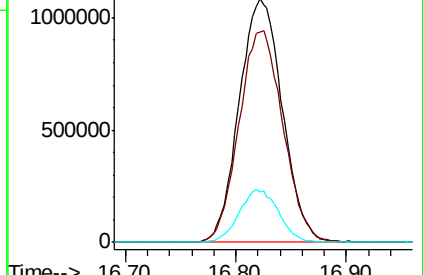
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.469 ppbv

RT: 17.07 min Scan# 4442

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

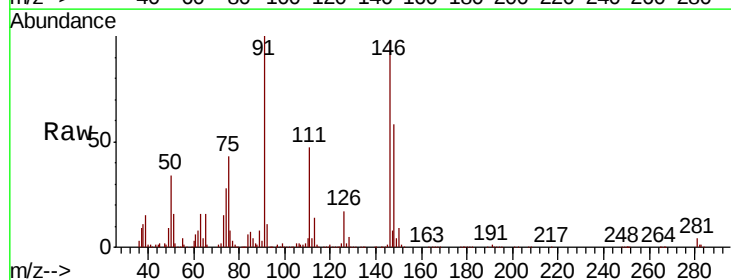
Tgt Ion: 91 Resp: 1416109

Ion Ratio Lower Upper

91 100

126 16.4 12.9 19.3

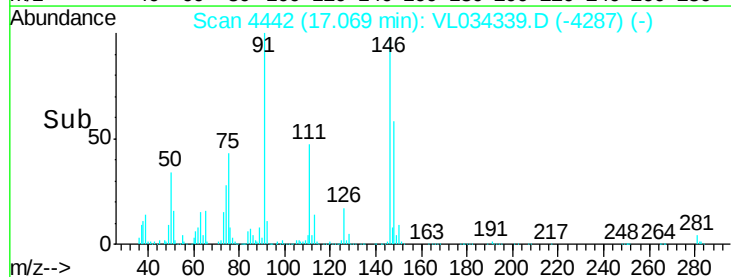
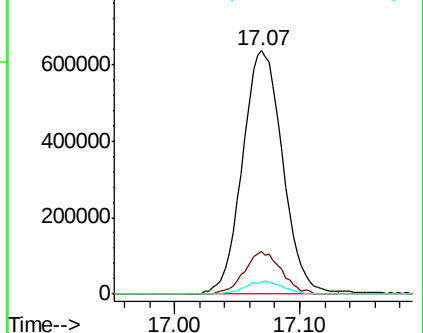
128 5.2 4.3 6.5

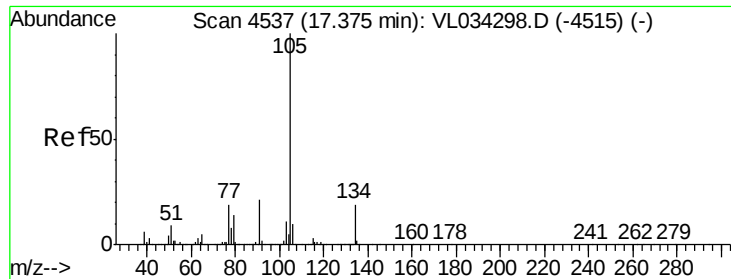


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.179 ppbv

RT: 17.37 min Scan# 4536

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion: 105 Resp: 4119309

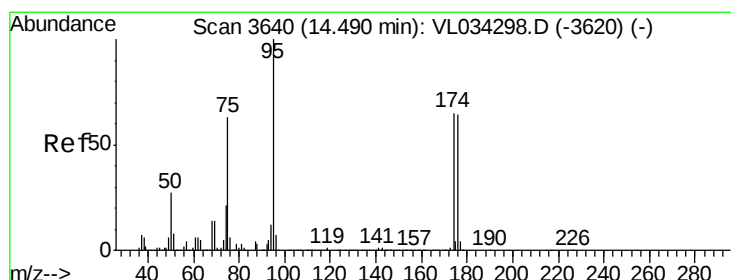
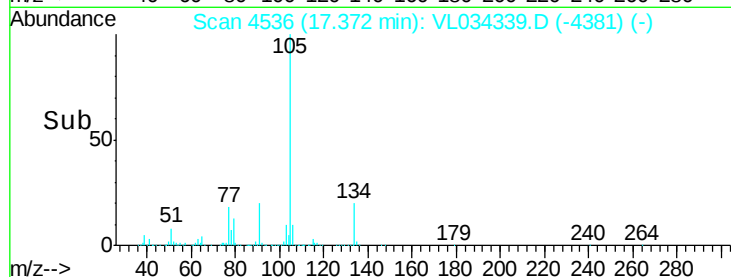
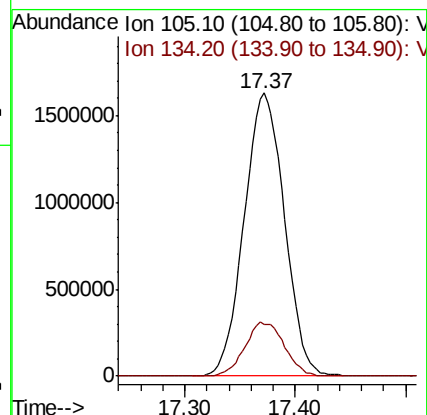
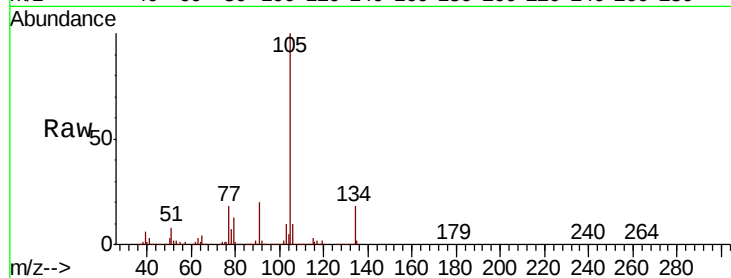
Ion Ratio Lower Upper

105 100

134 18.8 15.4 23.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.222 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

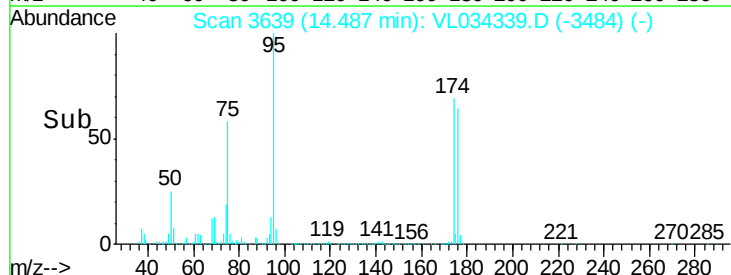
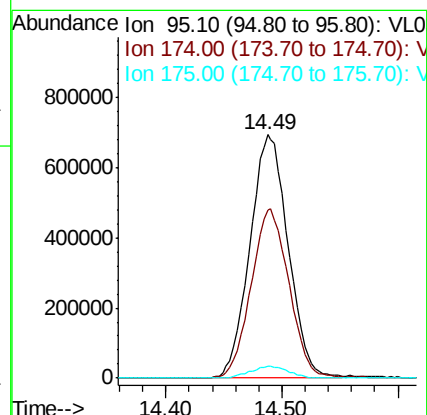
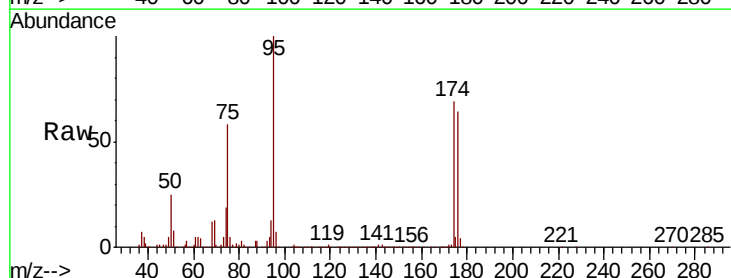
Tgt Ion: 95 Resp: 1591697

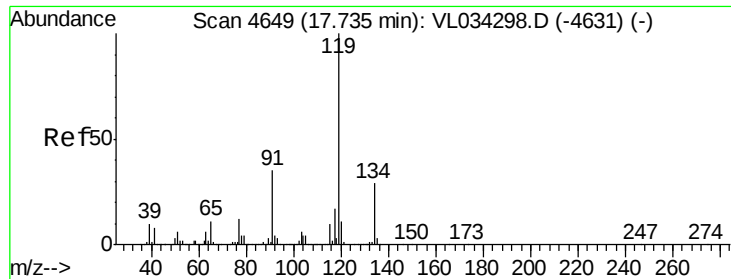
Ion Ratio Lower Upper

95 100

174 69.5 52.6 78.8

175 4.8 3.8 5.6





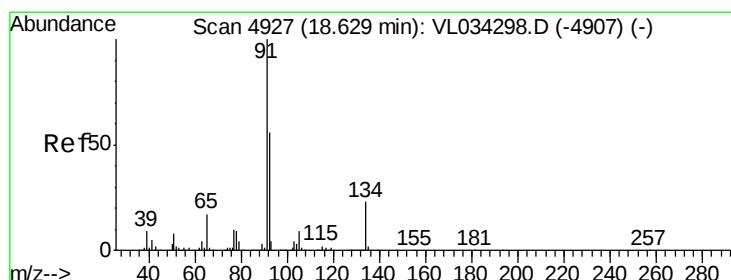
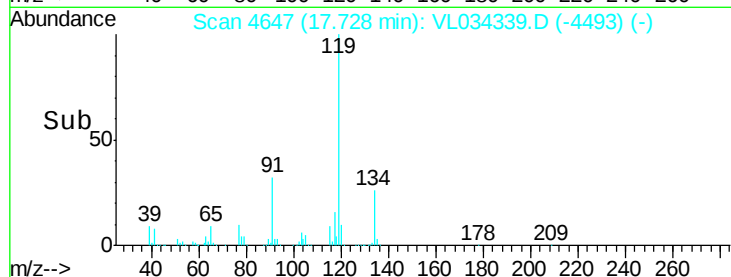
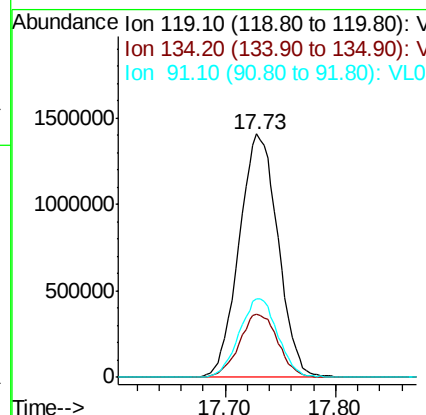
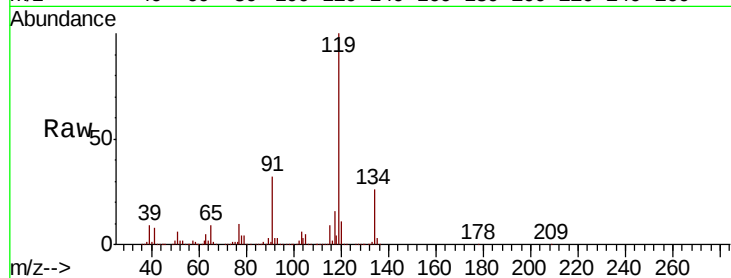
#69
 p-Isopropyltoluene
 Concen: 10.386 ppbv
 RT: 17.73 min Scan# 4647
 Delta R.T. -0.01 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	21.3	31.9
91	32.1	26.6	39.8

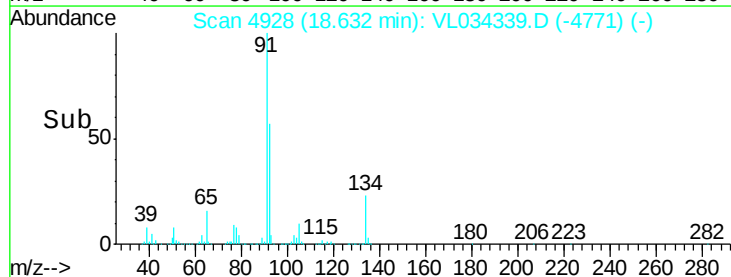
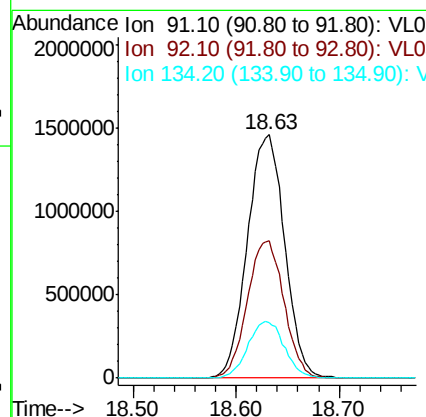
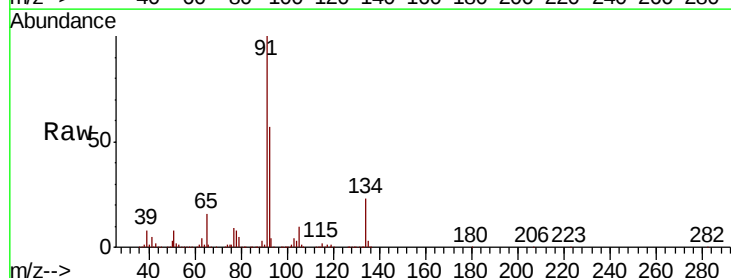
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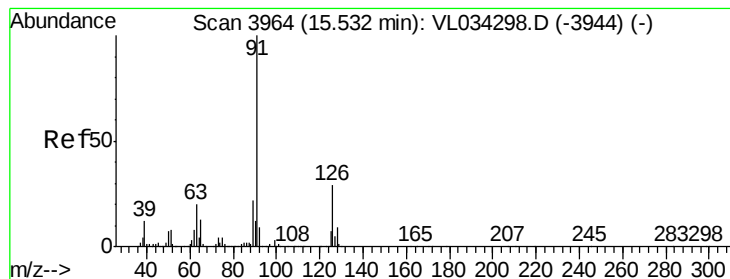
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#70
 n-Butylbenzene
 Concen: 10.211 ppbv
 RT: 18.63 min Scan# 4928
 Delta R.T. 0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.5	66.7
134	22.7	18.2	27.2





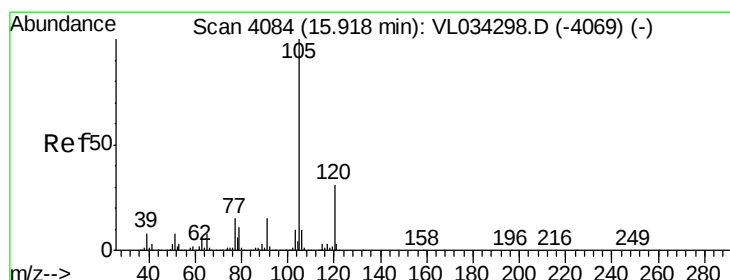
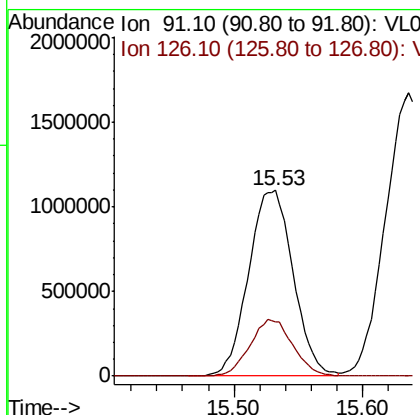
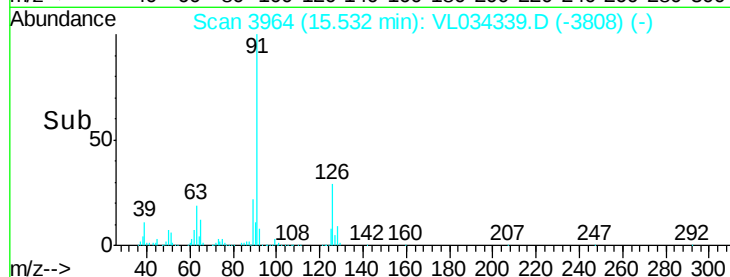
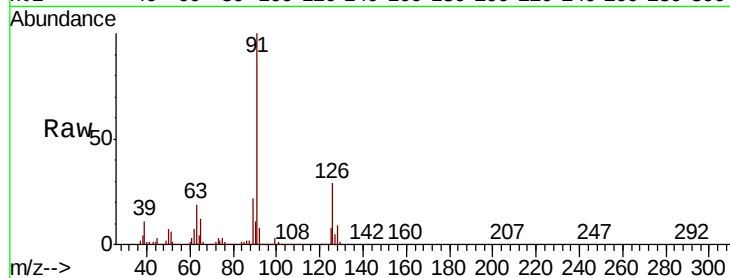
#71
 2-Chlorotoluene
 Concen: 10.514 ppbv
 RT: 15.53 min Scan# 3964
 Delta R.T. 0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion: 91 Resp: 2644907
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.9 47.5

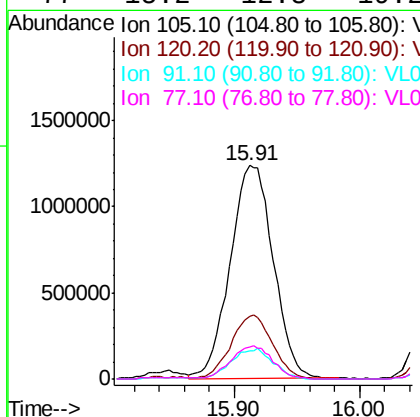
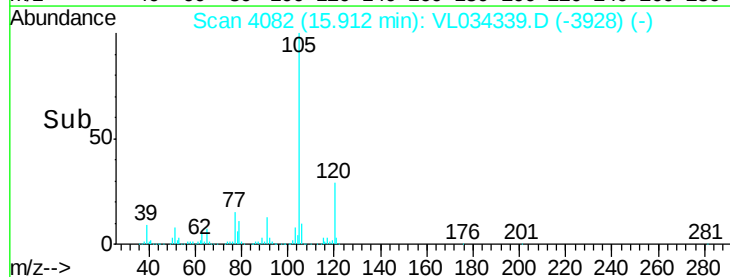
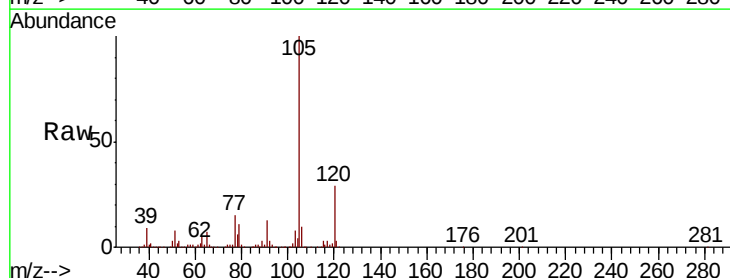
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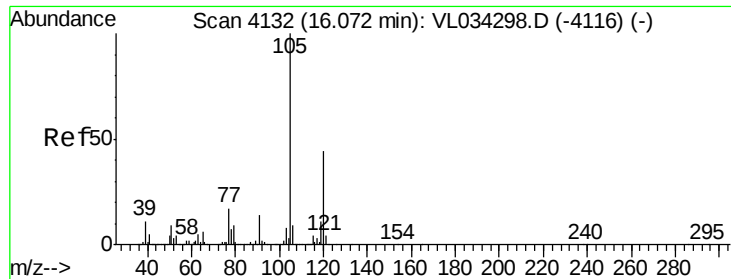
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#72
 4-Ethyltoluene
 Concen: 10.693 ppbv
 RT: 15.91 min Scan# 4082
 Delta R.T. -0.01 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion: 105 Resp: 2954268
 Ion Ratio Lower Upper
 105 100
 120 28.9 23.8 35.8
 91 13.7 11.2 16.8
 77 15.2 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 10.299 ppbv

RT: 16.07 min Scan# 4132

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion:105 Resp: 2819360

Ion Ratio Lower Upper

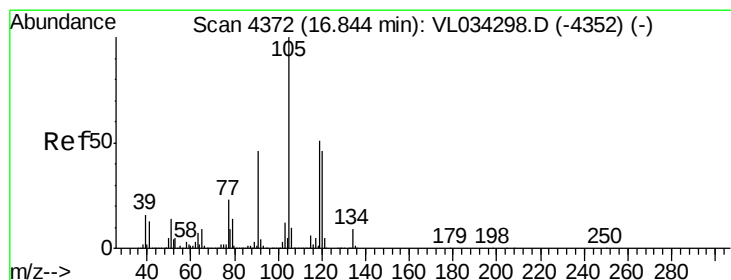
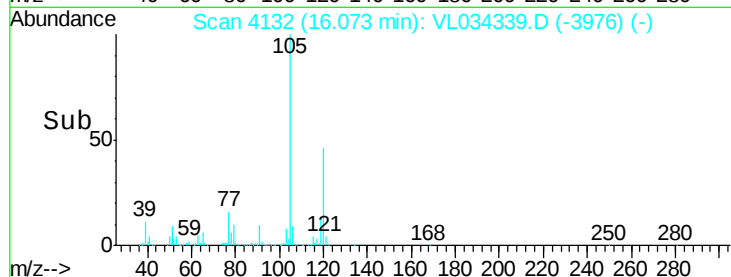
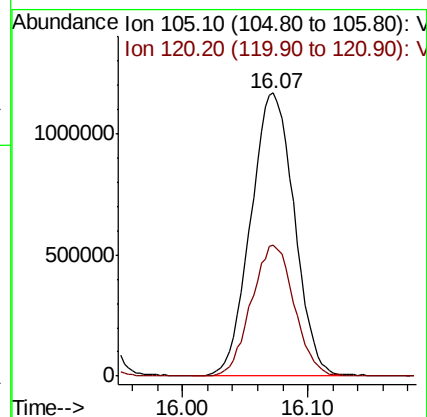
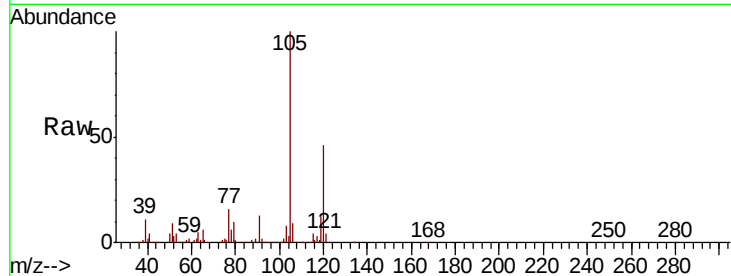
105 100

120 46.5 35.2 52.8

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#74

1,2,4-Trimethylbenzene

Concen: 10.199 ppbv

RT: 16.84 min Scan# 4371

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Tgt Ion:105 Resp: 2911407

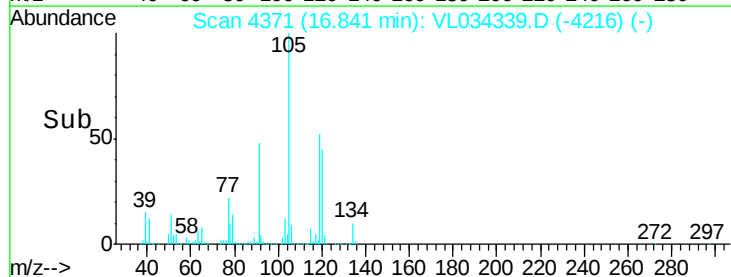
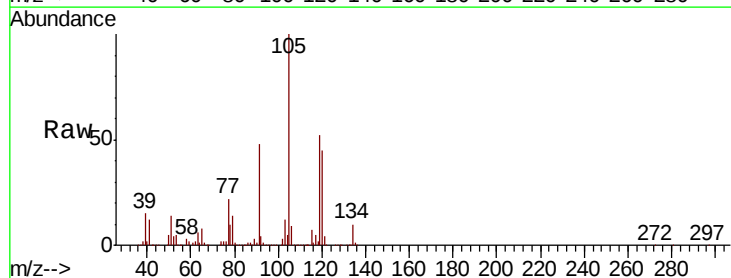
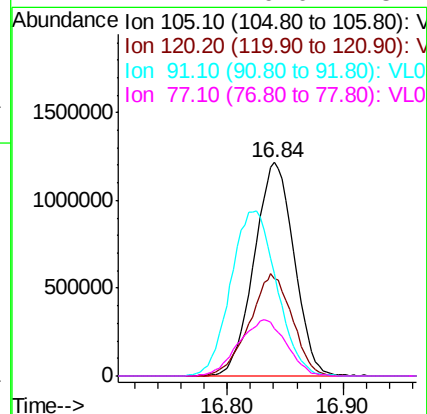
Ion Ratio Lower Upper

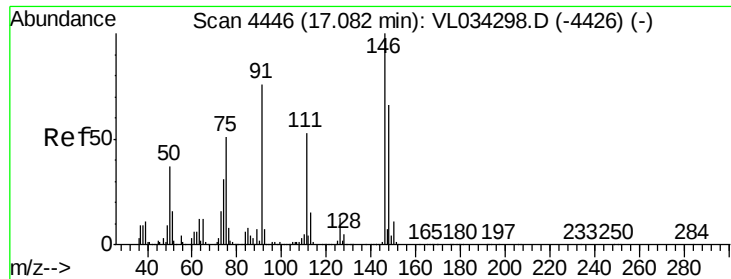
105 100

120 45.3 37.0 55.6

91 47.4 38.2 57.2

77 22.2 19.0 28.4





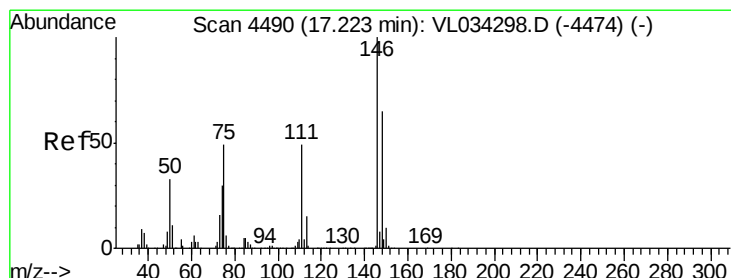
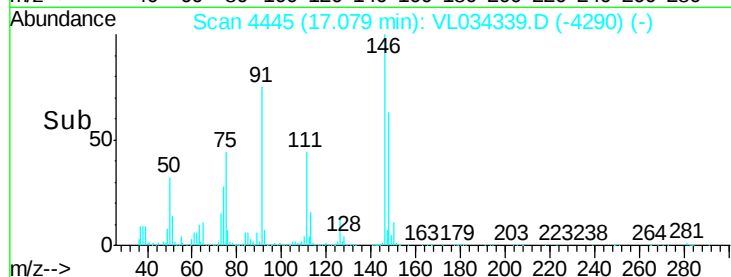
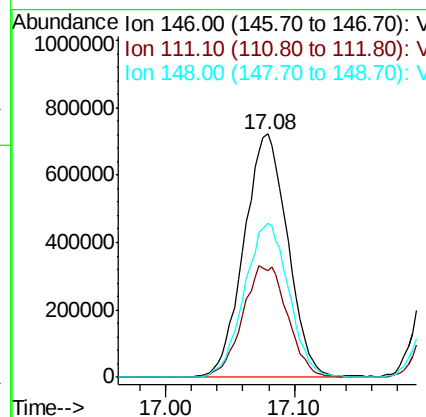
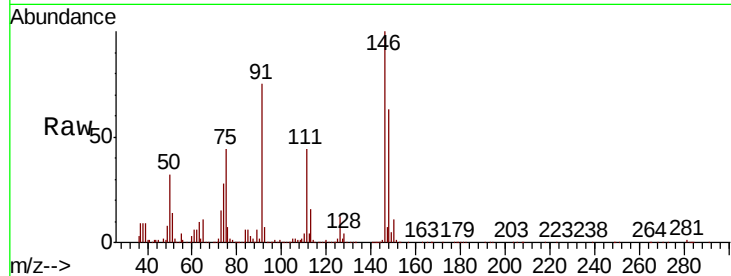
#75
 1,3-Dichlorobenzene
 Concen: 9.923 ppbv
 RT: 17.08 min Scan# 4445
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion:146 Resp: 1700704
 Ion Ratio Lower Upper
 146 100
 111 47.4 24.5 73.5
 148 64.3 32.3 96.8

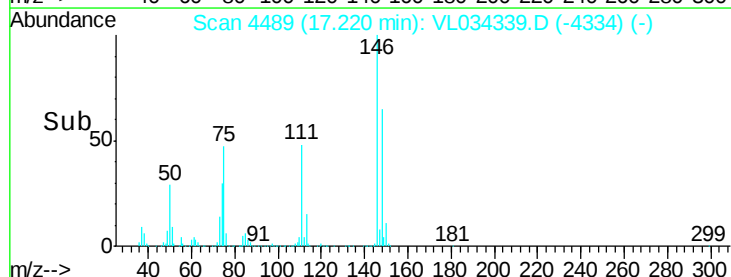
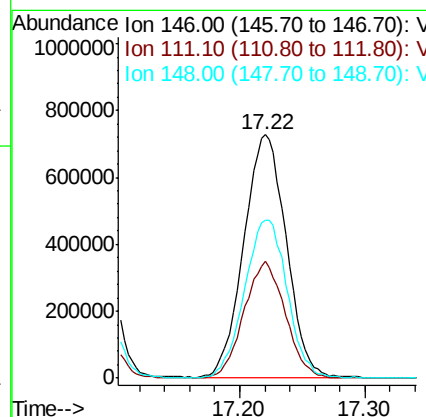
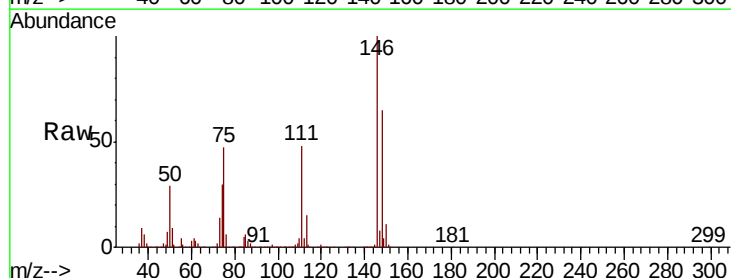
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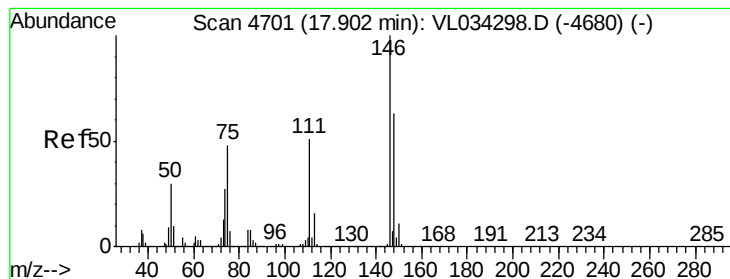
MMDadoda
 10/22/2019 2:56:28 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.172 ppbv
 RT: 17.22 min Scan# 4489
 Delta R.T. -0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Tgt Ion:146 Resp: 1703011
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.9 71.7
 148 65.9 33.1 99.2





#77

1,2-Dichlorobenzene

Concen: 9.829 ppbv

RT: 17.90 min Scan# 4701

Delta R.T. 0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

Instrument :

MSVOA_L

ClientSampleId :

VL1017SABS01

Tot Ion:146 Resp: 1651695

Ion Ratio Lower Upper

146 100

111 49.6 25.1 75.3

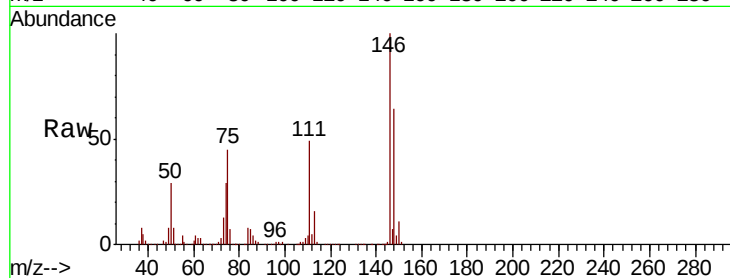
148 65.3 32.3 96.8

Manual Integrations

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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

17.90

800000

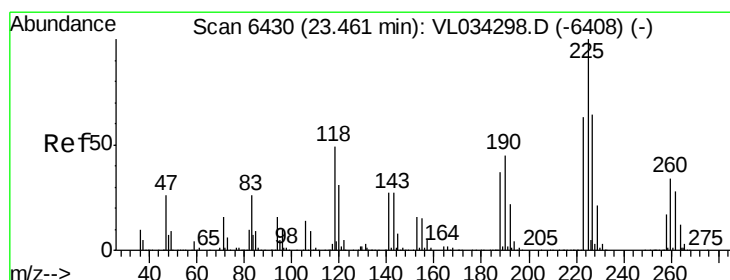
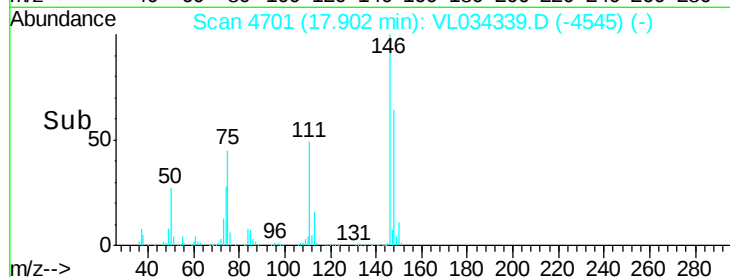
600000

400000

200000

0

Time--> 17.80 17.90



#78

Hexachloro-1,3-Butadiene

Concen: 9.346 ppbv

RT: 23.46 min Scan# 6429

Delta R.T. -0.00 min

Lab File: VL034339.D

Acq: 18 Oct 2019 11:26

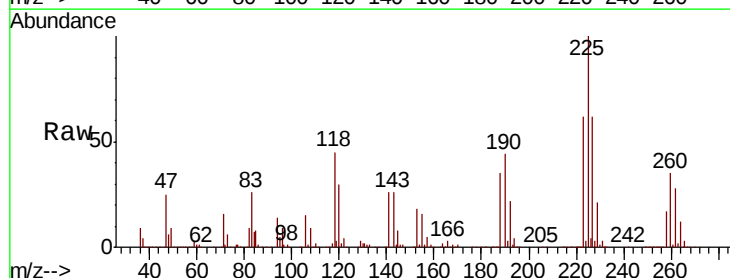
Tgt Ion:225 Resp: 1299091

Ion Ratio Lower Upper

225 100

223 63.0 50.8 76.2

227 63.4 51.5 77.3



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

23.46

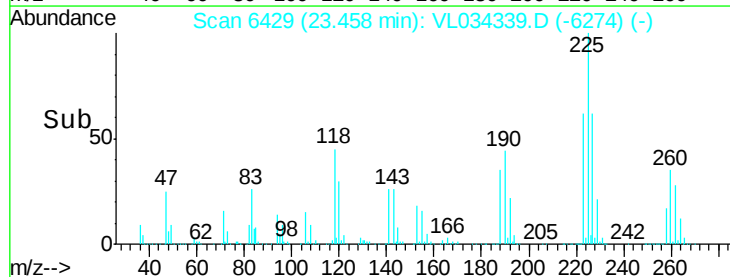
600000

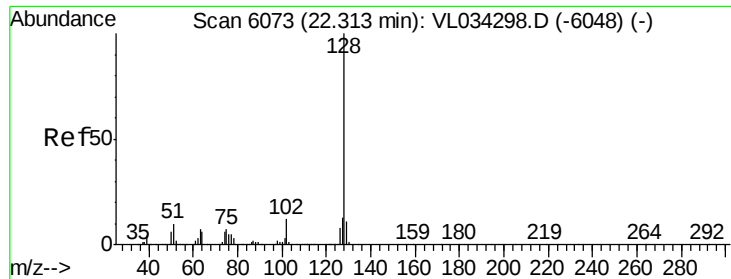
400000

200000

0

Time--> 23.40 23.50





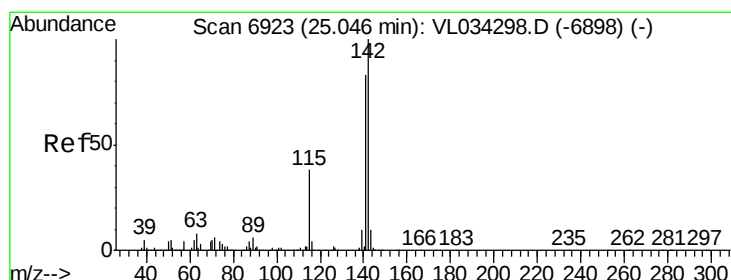
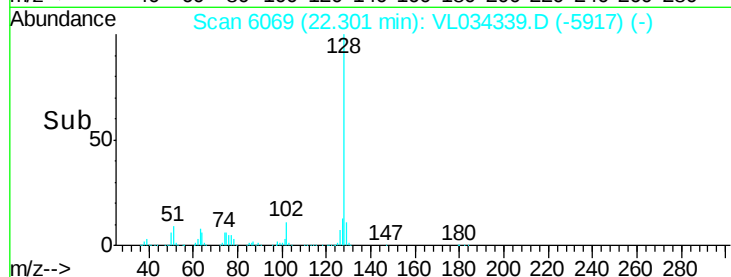
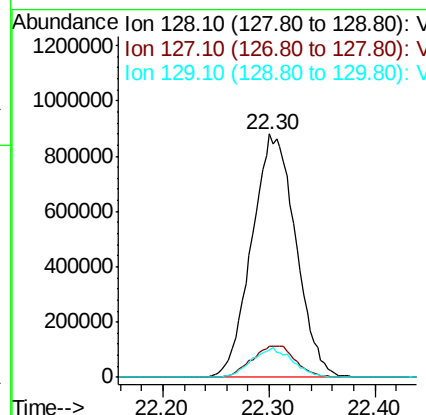
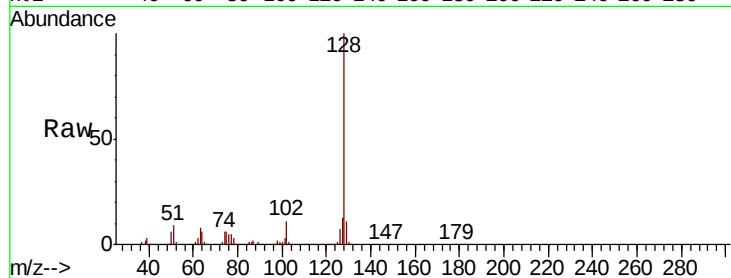
#79
Naphthalene
Concen: 12.135 ppbv m
RT: 22.30 min Scan# 6069
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Instrument :
MSVOA_L
ClientSampleId :
VL1017SABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	11.4	8.9	13.3

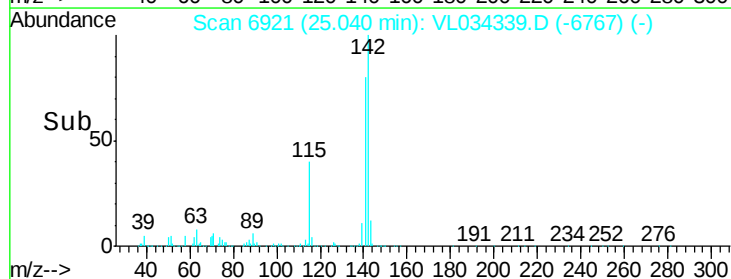
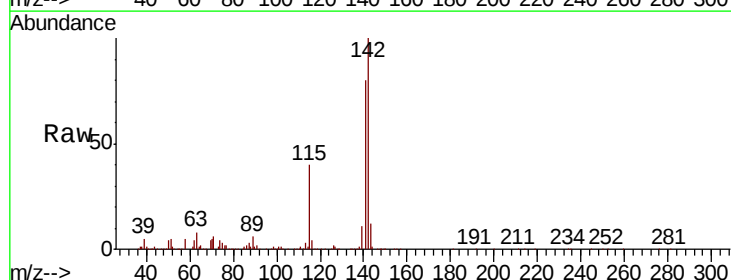
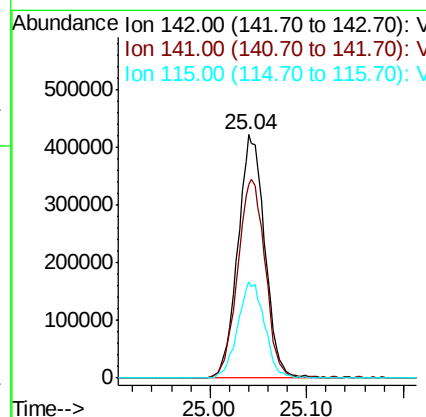
Manual Integrations
APPROVED

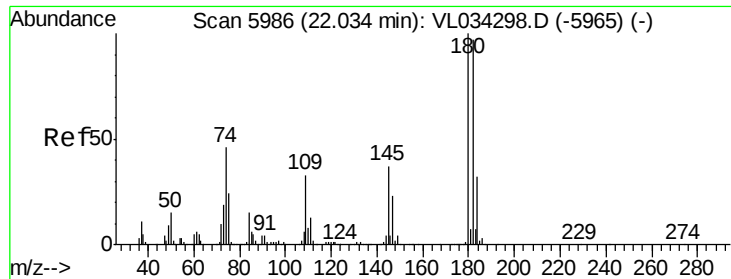
MMDadoda
10/22/2019 2:56:28 PM



#80
Naphthalene, 2-methyl-
Concen: 13.540 ppbv
RT: 25.04 min Scan# 6921
Delta R.T. -0.01 min
Lab File: VL034339.D
Acq: 18 Oct 2019 11:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	65.7	98.5
115	39.7	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 11.216 ppbv
 RT: 22.03 min Scan# 5986
 Delta R.T. 0.00 min
 Lab File: VL034339.D
 Acq: 18 Oct 2019 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1017SABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.8	116.8
184	30.9	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:56:28 PM

