

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033533.D
 Acq On : 4 Apr 2019 14:48
 Operator : SY/AP
 Sample : VL0404ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:13 AM

Quant Time: Apr 05 02:19:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1134537	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2694618	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2926021m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2215697	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1784929	10.787	ppbv 96
3) Chlorodifluoromethane	3.01	51	1040441	7.966	ppbv 100
4) Chloromethane	3.17	50	562756	8.142	ppbv 97
5) Vinyl Chloride	3.29	62	558460	8.224	ppbv 96
6) Bromomethane	3.51	94	368146	8.436	ppbv 94
7) Chloroethane	3.60	64	209169	8.276	ppbv 100
8) Dichlorotetrafluoroethane	3.22	85	1439246	8.163	ppbv 99
9) Propene	3.03	41	451173	8.225	ppbv 100
10) Heptane	8.25	43	1179619	8.045	ppbv 99
11) Trichlorofluoromethane	4.00	101	1672526	8.202	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1134563	8.283	ppbv 100
13) Ethanol	3.65	45	136007	9.582	ppbv 64
14) Bromoethene	3.79	108	464724	8.507	ppbv 99
15) Acetone	3.90	43	1048009	7.682	ppbv 98
16) 1,3-Butadiene	3.36	39	474837	8.776	ppbv 92
17) tert-Butyl alcohol	4.35	59	214702	8.560	ppbv 100
18) 1,1-Dichloroethene	4.35	96	499809	8.495	ppbv 99
19) Isopropyl Alcohol	4.02	45	760121	8.809	ppbv 99
20) Methylene Chloride	4.41	84	434881	7.510	ppbv 97
21) Allyl Chloride	4.47	41	750539	8.703	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	514317	8.379	ppbv 97
23) Vinyl Acetate	5.16	43	1703983	8.776	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1187309	8.050	ppbv 100
25) Ethyl Acetate	5.77	43	1976149	7.808	ppbv 100
26) Hexane	5.78	57	887919	7.890	ppbv 98
27) Carbon Disulfide	4.62	76	1239543	9.262	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1427751	8.808	ppbv 100
29) Chloroform	5.85	83	1512407	7.840	ppbv 99
30) Cyclohexane	7.25	84	759896	8.535	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	948138	8.474	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1581075	8.607	ppbv 99
34) 2-Butanone	5.33	43	1344026	8.302	ppbv 100
35) Carbon Tetrachloride	7.13	117	1675274	8.778	ppbv 99
36) Benzene	7.00	78	1845910	8.164	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1184727	7.818	ppbv 100
38) Trichloroethene	7.96	130	745035	8.756	ppbv 99
39) 1,2-Dichloropropane	7.74	63	695011	7.847	ppbv 97
40) 1,4-Dioxane	7.95	88	290178	9.186	ppbv 79
41) Tetrahydrofuran	6.15	42	732296	8.224	ppbv 98
42) Bromodichloromethane	7.92	83	1680518	8.142	ppbv 99
43) Methyl Methacrylate	8.13	69	769098	8.377	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3166024	8.013	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1095610	9.720	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1189247	9.035	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	799233	7.947	ppbv	97
48) Dibromochloromethane	10.45	129	1488881	8.777	ppbv	99
49) Bromoform	13.20	173	1375170	8.486	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1960032	8.268	ppbv	99
51) 2-Hexanone	10.27	43	1555108	8.794	ppbv #	99
52) Tetrachloroethene	11.37	164	736662	8.635	ppbv	97
53) Toluene	9.95	91	2259520	8.600	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1294766	8.231	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1044959	7.792	ppbv #	55
57) Chlorobenzene	12.30	112	1753274	7.717	ppbv	95
58) Ethyl Benzene	12.86	91	3211780	8.220	ppbv	99
59) m/p-Xylene	13.15	91	5497988m	15.753	ppbv	
60) o-Xylene	13.85	91	2722764	8.067	ppbv	100
61) Styrene	13.69	104	2005904	8.660	ppbv	99
62) Isopropylbenzene	14.82	105	3750912	7.848	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1874124	7.541	ppbv	100
64) n-propylbenzene	15.72	120	976887	8.055	ppbv	98
65) tert-Butylbenzene	16.91	119	3423528	8.129	ppbv	99
66) Benzyl Chloride	17.15	91	1964967	10.034	ppbv	99
67) sec-Butylbenzene	17.46	105	4828419	8.062	ppbv	100
69) p-Isopropyltoluene	17.81	119	4034147	8.273	ppbv	100
70) n-Butylbenzene	18.71	91	4284361	8.292	ppbv	99
71) 2-Chlorotoluene	15.61	91	2896479	7.970	ppbv	99
72) 4-Ethyltoluene	16.00	105	3126495	8.241	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3008698	8.287	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3156986	8.113	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1870044	7.775	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1867256	7.968	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1835131	8.042	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1398860	9.261	ppbv	99
79) Naphthalene	22.41	128	3052212	9.163	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	1239364	11.087	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1584629	8.576	ppbv	100

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

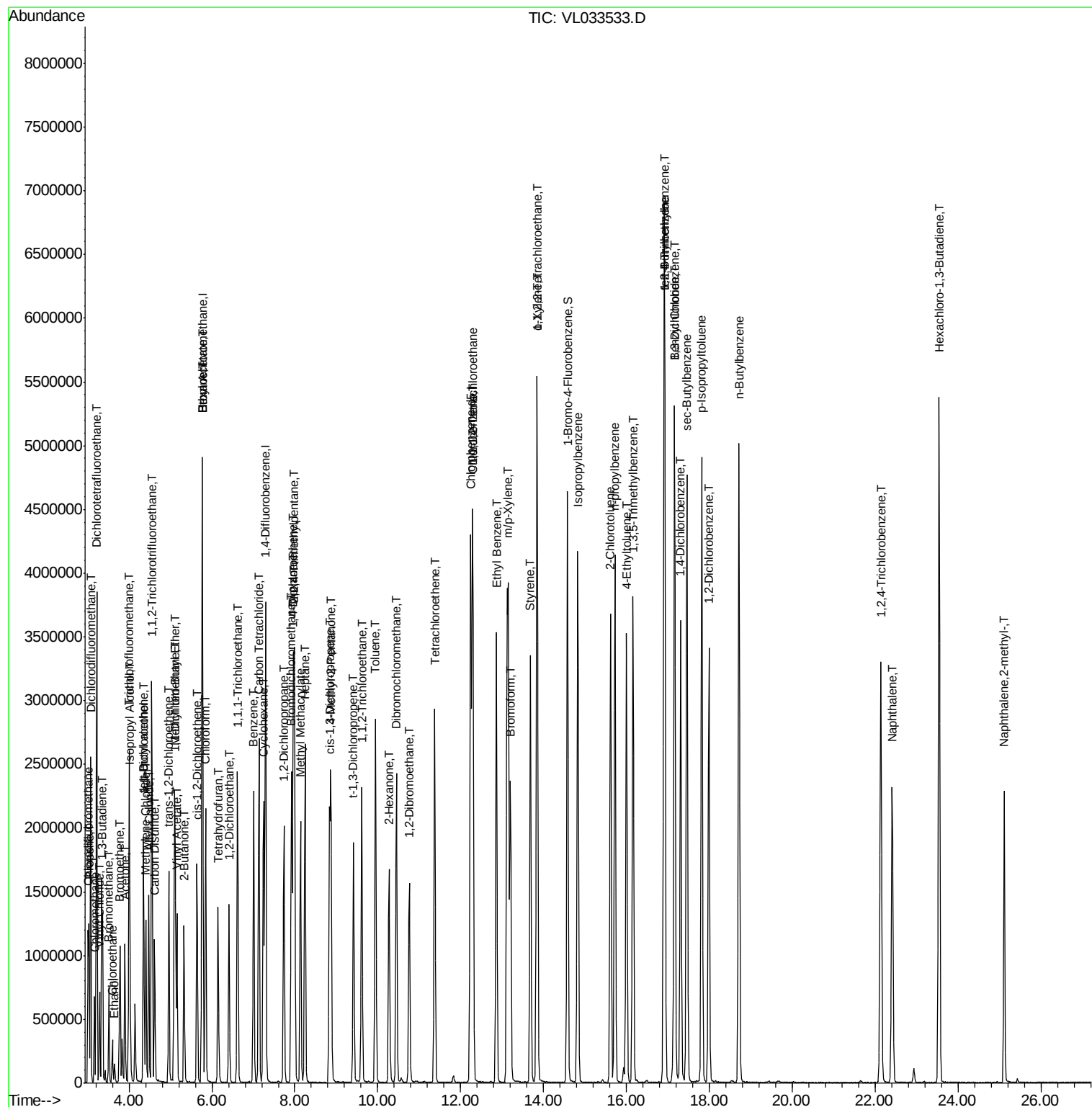
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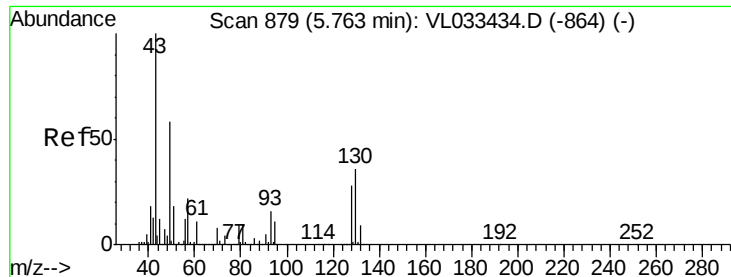
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 49 Resp: 1134537

Ion Ratio Lower Upper

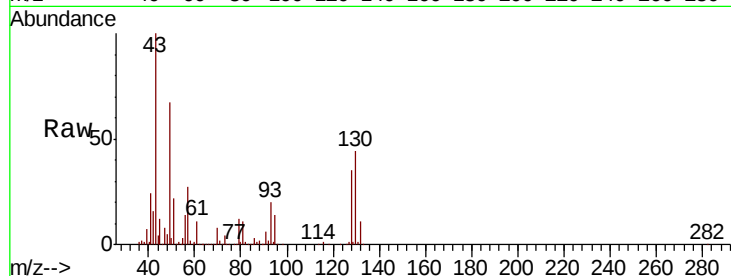
49 100

128 49.4 24.0 72.0

130 63.1 31.2 93.6

Manual Integrations
APPROVED

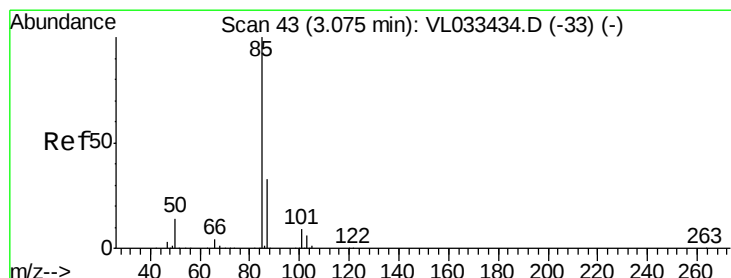
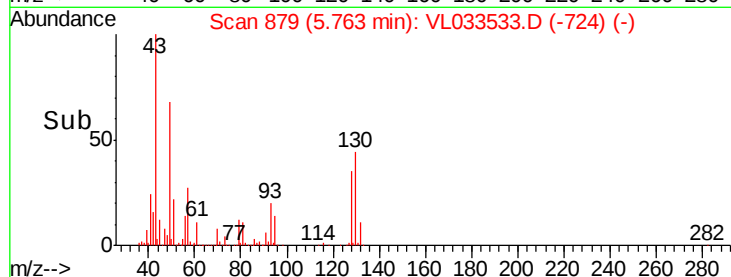
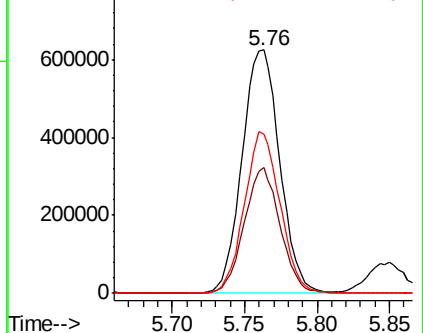
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4/8/2019 3:22:13 AM



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



#2

Dichlorodifluoromethane

Concen: 10.787 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033533.D

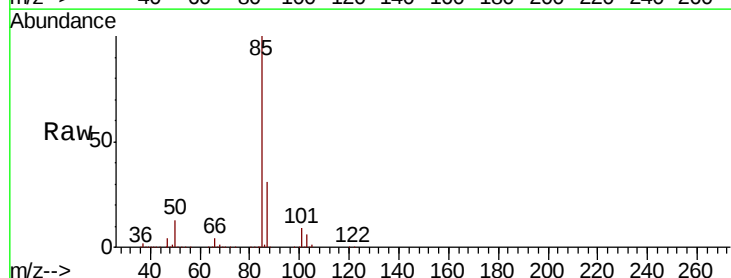
Acq: 4 Apr 2019 14:48

Tgt Ion: 85 Resp: 1784929

Ion Ratio Lower Upper

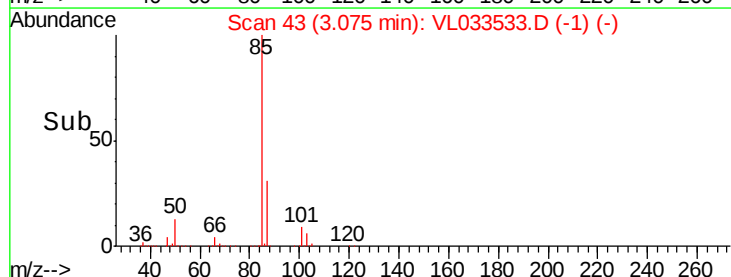
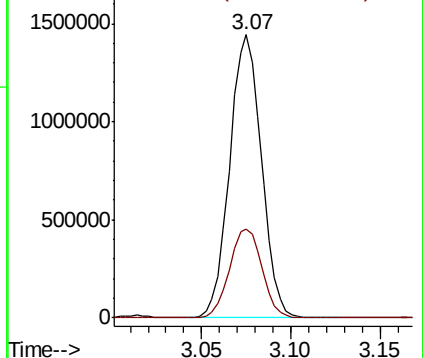
85 100

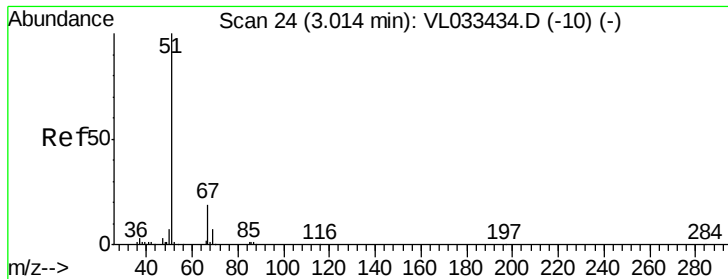
87 31.3 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.966 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Tot Ion: 51 Resp: 1040441

Ion Ratio Lower Upper

51 100

67 19.8 15.7 23.5

Instrument :

MSVOA_L

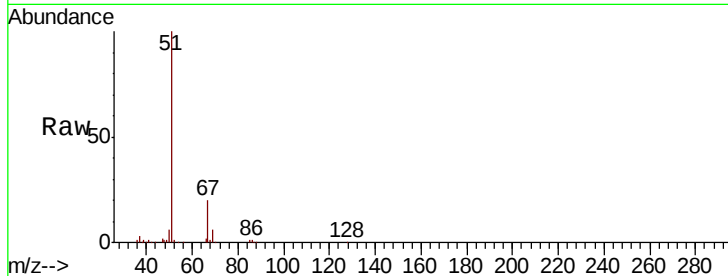
ClientSampleId :

VL0404ABS01

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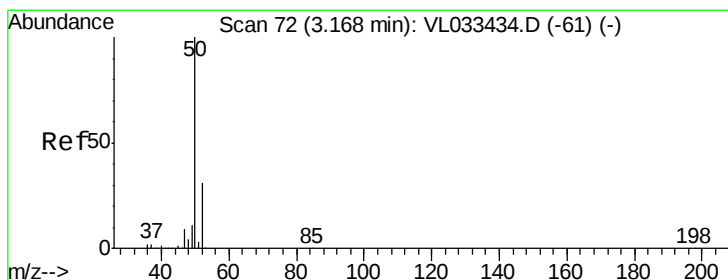
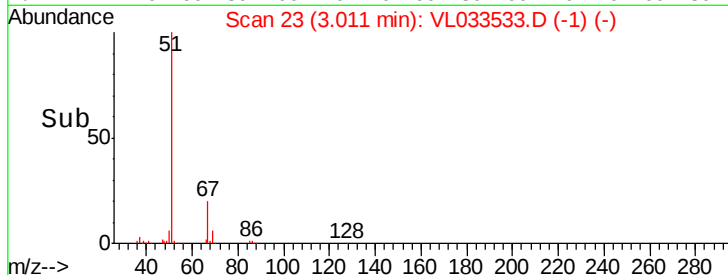
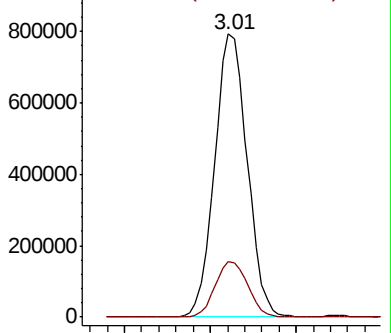
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.142 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033533.D

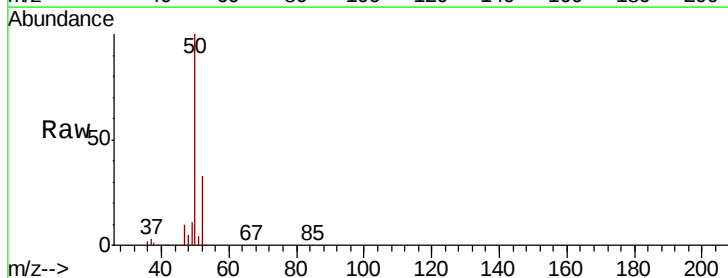
Acq: 4 Apr 2019 14:48

Tgt Ion: 50 Resp: 562756

Ion Ratio Lower Upper

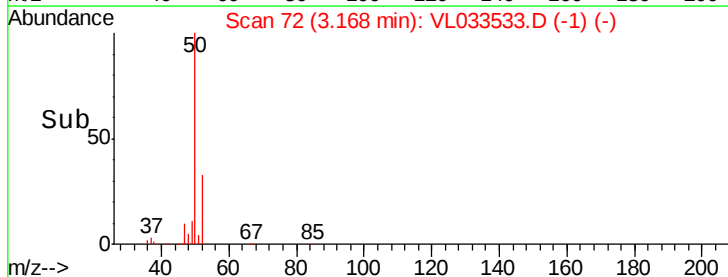
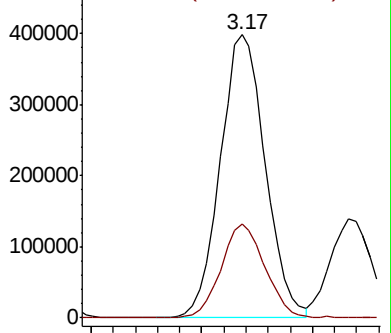
50 100

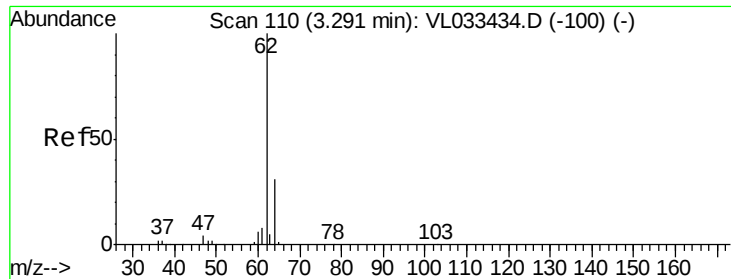
52 33.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.224 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 62 Resp: 558460

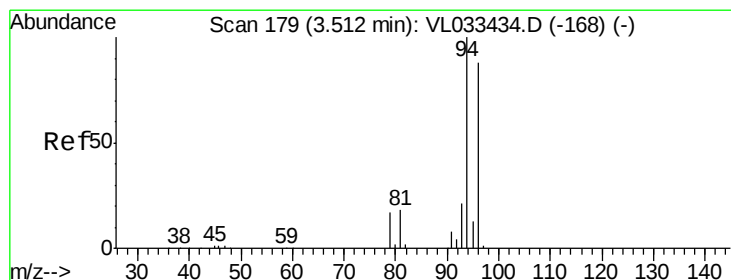
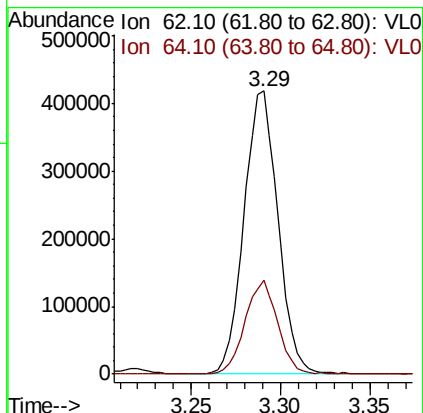
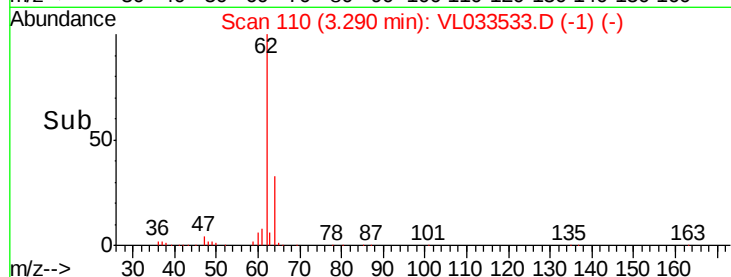
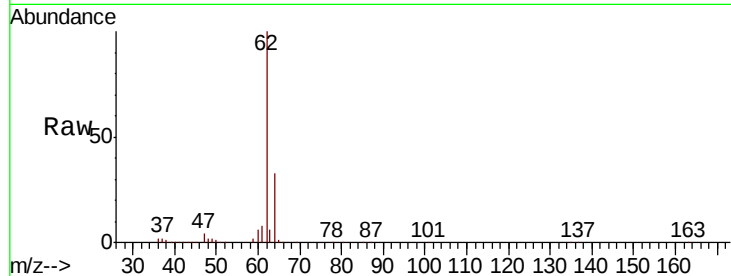
Ion Ratio Lower Upper

62 100

64 33.1 24.9 37.3

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#6

Bromomethane

Concen: 8.436 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033533.D

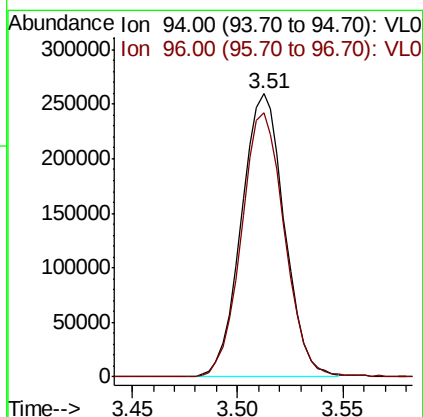
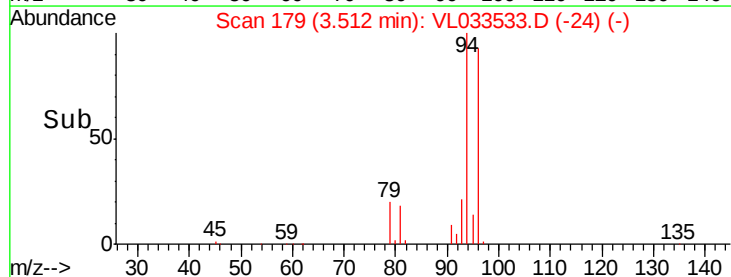
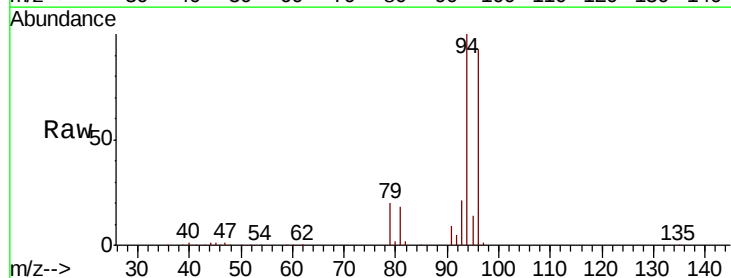
Acq: 4 Apr 2019 14:48

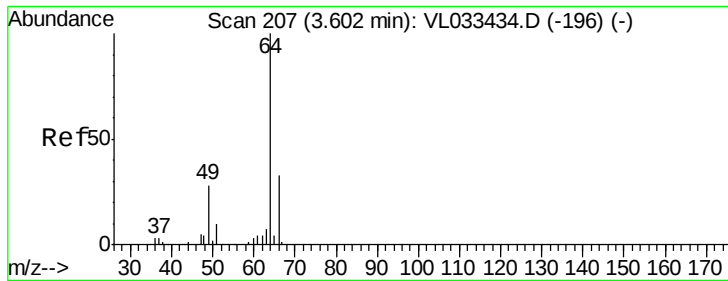
Tgt Ion: 94 Resp: 368146

Ion Ratio Lower Upper

94 100

96 93.3 70.2 105.2





#7

Chloroethane

Concen: 8.276 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

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ClientSampleId :

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Tot Ion: 64 Resp: 209169

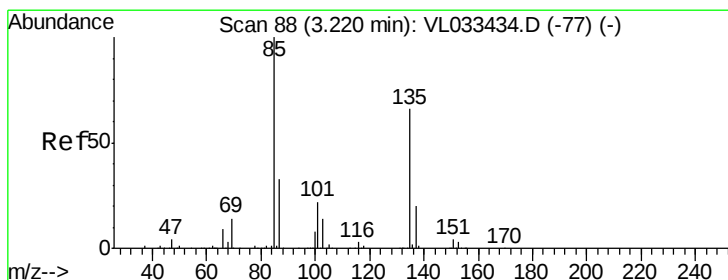
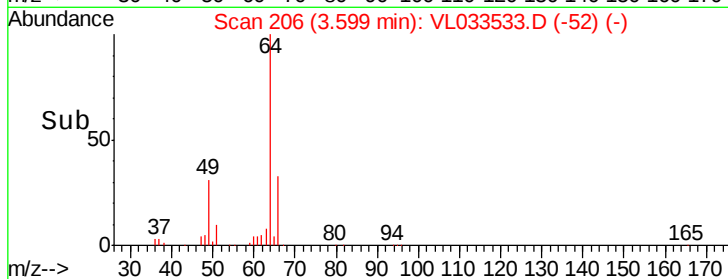
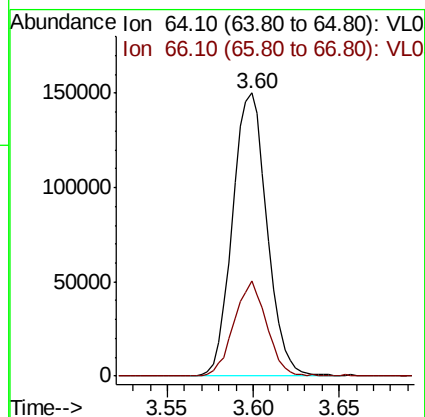
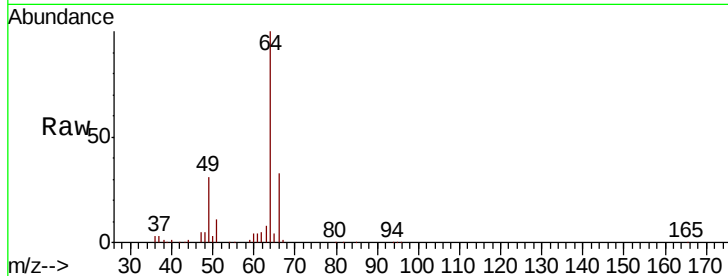
Ion Ratio Lower Upper

64 100

66 33.4 26.7 40.1

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#8

Dichlorotetrafluoroethane

Concen: 8.163 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033533.D

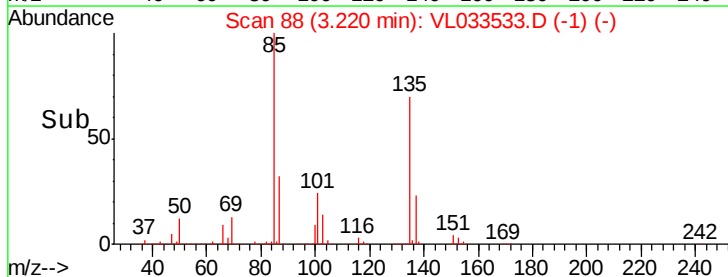
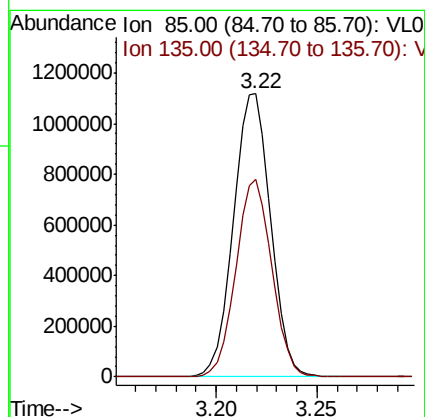
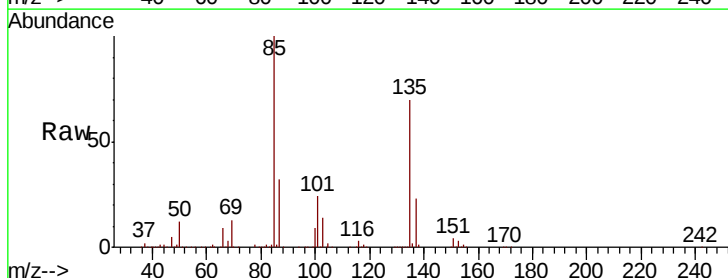
Acq: 4 Apr 2019 14:48

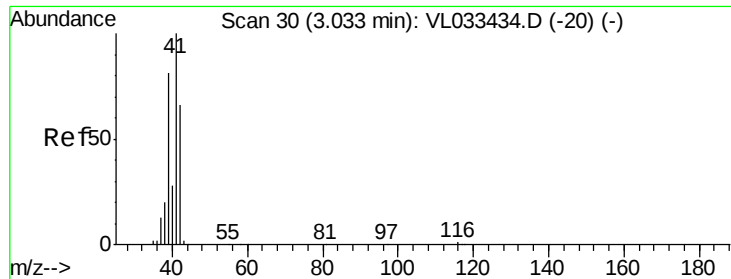
Tgt Ion: 85 Resp: 1439246

Ion Ratio Lower Upper

85 100

135 68.1 54.0 81.0





#9

Propene

Concen: 8.225 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 41 Resp: 451173

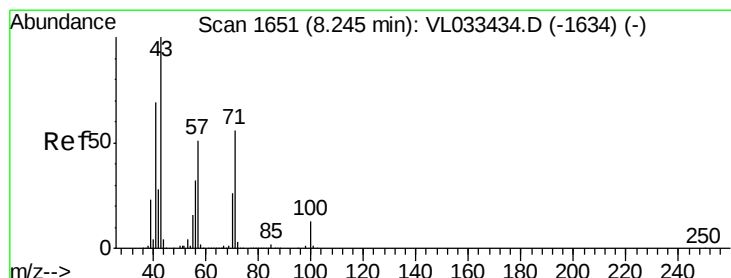
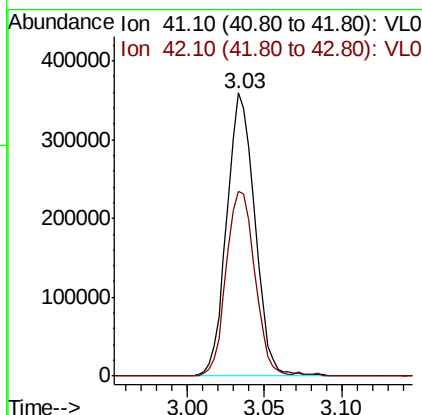
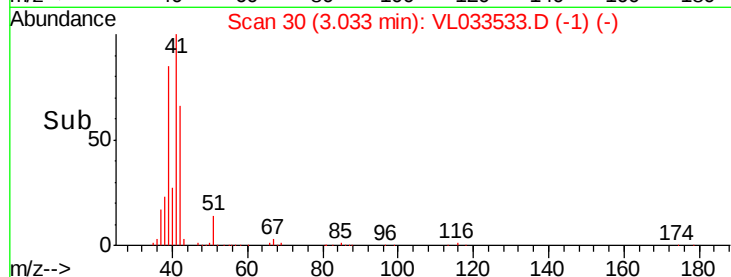
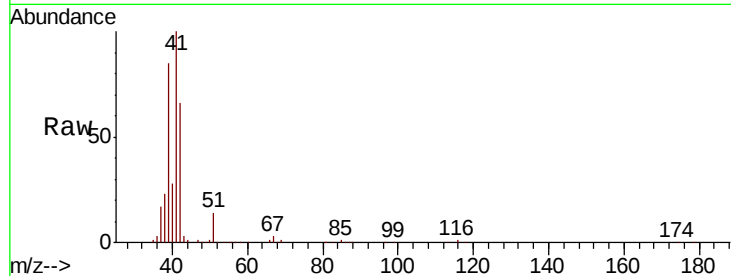
Ion Ratio Lower Upper

41 100

42 67.6 53.9 80.9

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#10

Heptane

Concen: 8.045 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033533.D

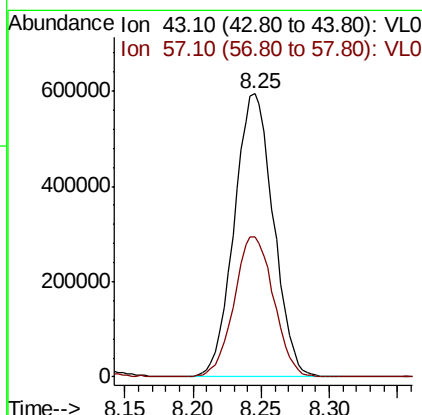
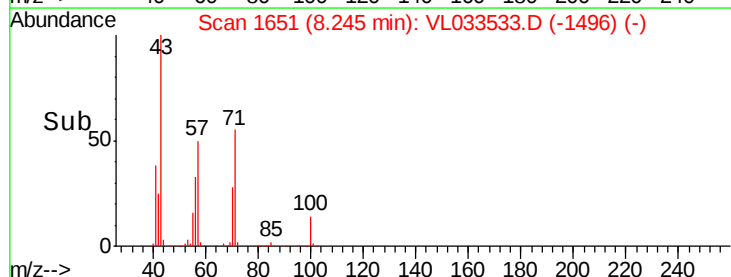
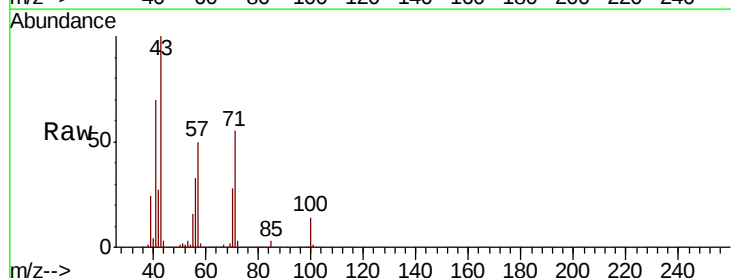
Acq: 4 Apr 2019 14:48

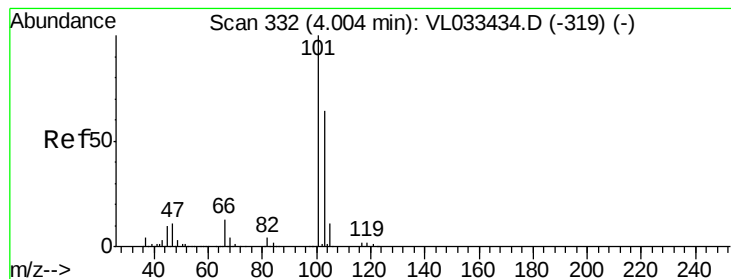
Tgt Ion: 43 Resp: 1179619

Ion Ratio Lower Upper

43 100

57 50.2 40.6 60.8





#11

Trichlorofluoromethane

Concen: 8.202 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:101 Resp: 1672526

Ion Ratio Lower Upper

101 100

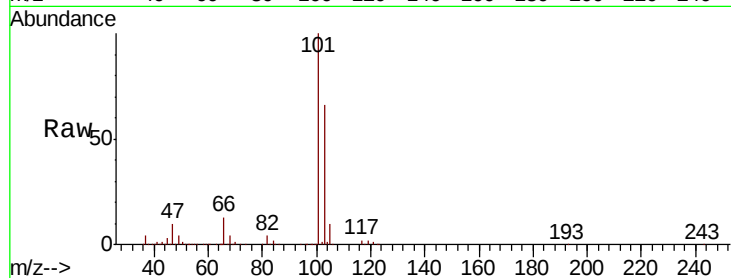
103 65.6 51.3 76.9

Manual Integrations

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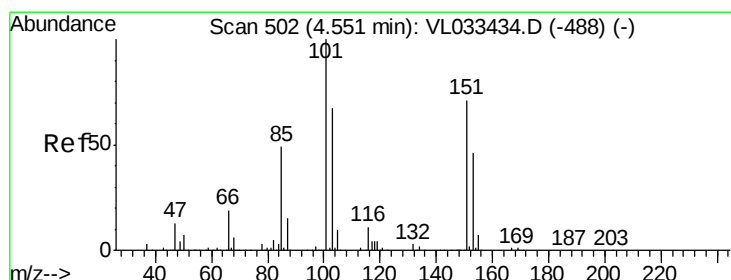
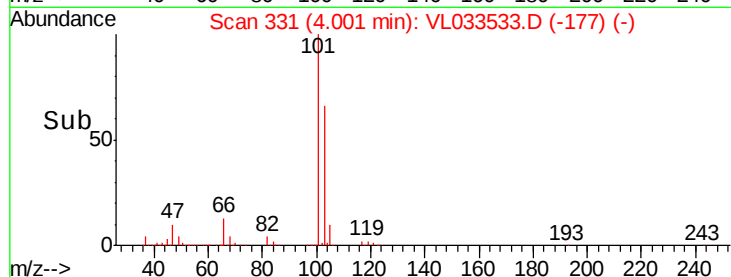
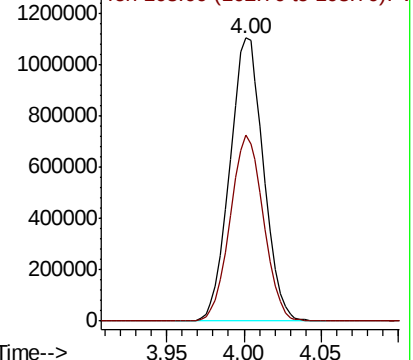
MMDadoda

4/8/2019 3:22:13 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.283 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL033533.D

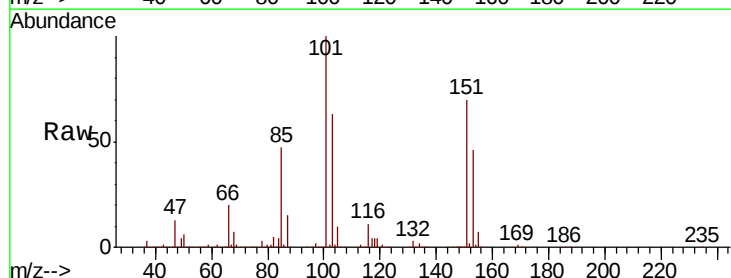
Acq: 4 Apr 2019 14:48

Tgt Ion:101 Resp: 1134563

Ion Ratio Lower Upper

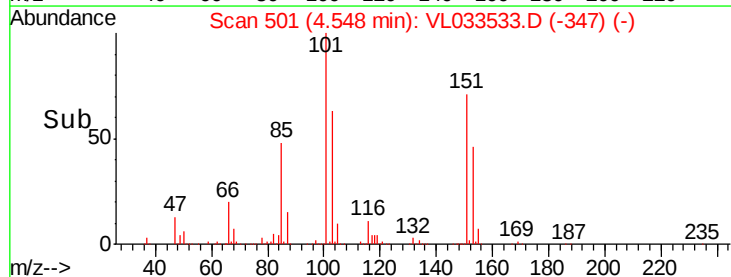
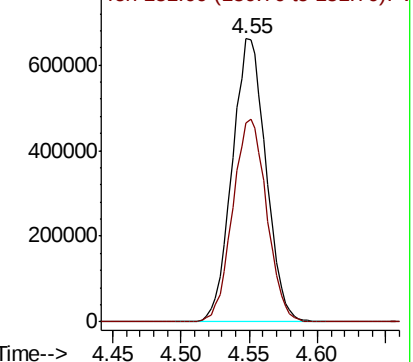
101 100

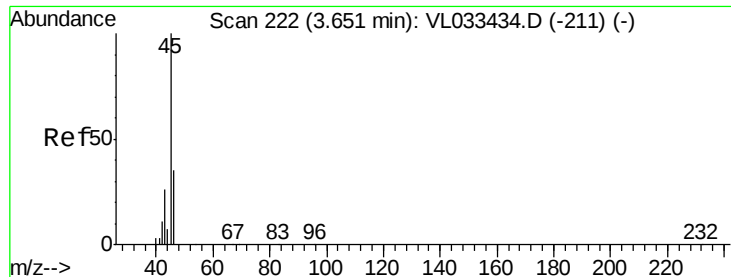
151 72.3 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





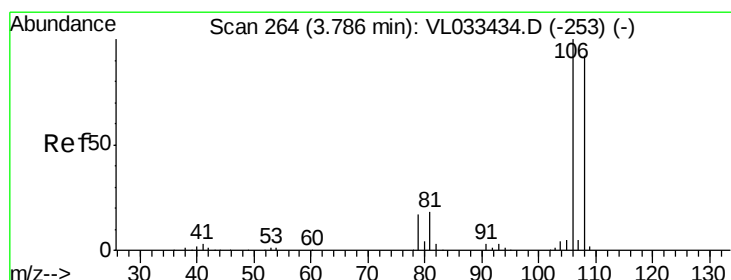
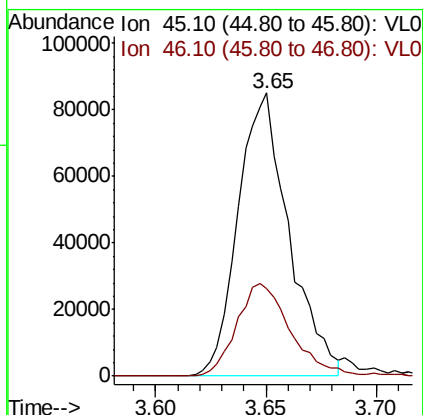
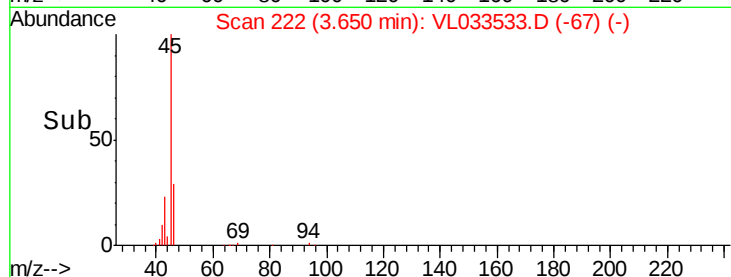
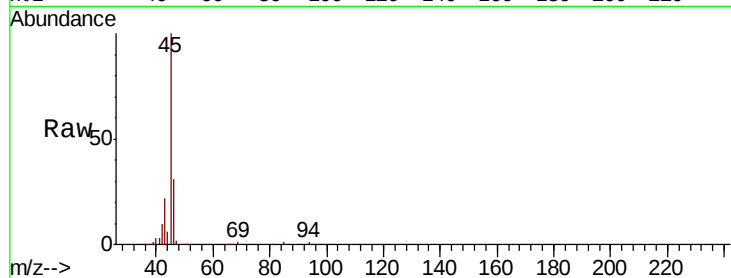
#13
Ethanol
Concen: 9.582 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	45	Resp	136007
Ion Ratio	100	Lower	Upper
46	35.2	25.4	101.8

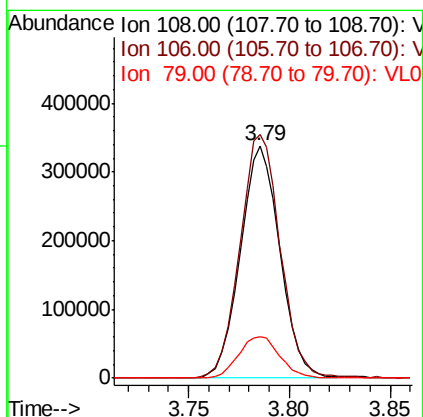
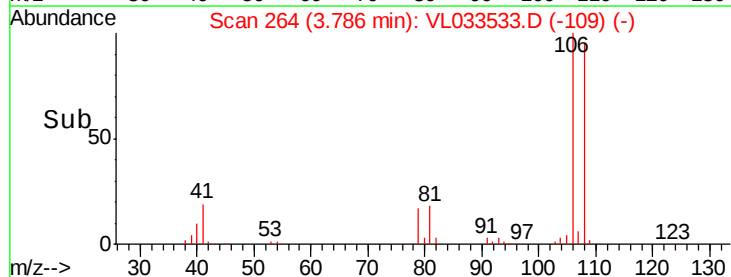
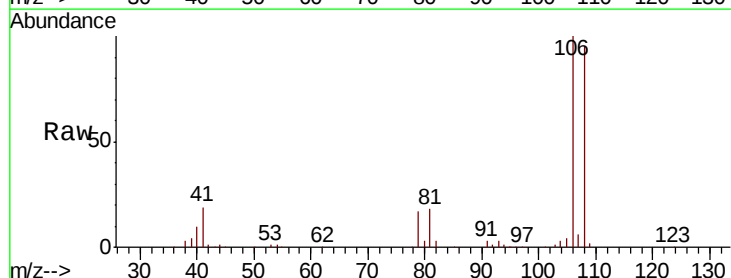
Manual Integrations
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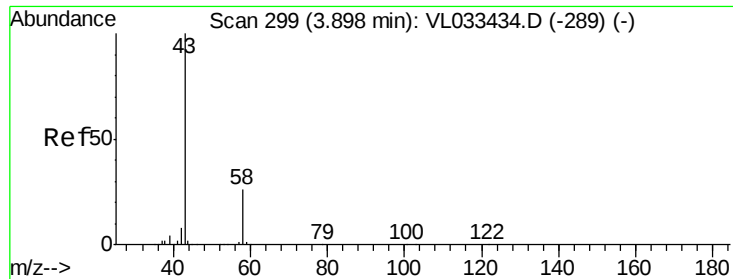
MMDadoda
4/8/2019 3:22:13 AM



#14
Bromoethene
Concen: 8.507 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	108	Resp	464724
Ion Ratio	100	Lower	Upper
106	107.2	86.4	129.6
79	18.9	15.8	23.8





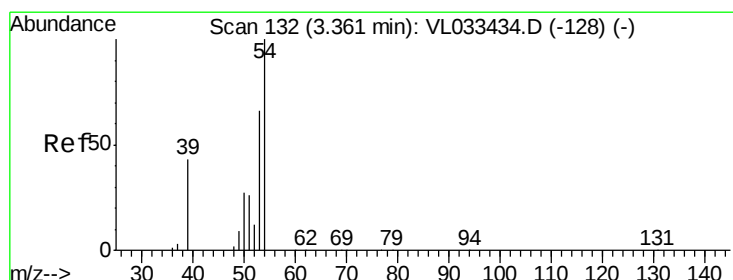
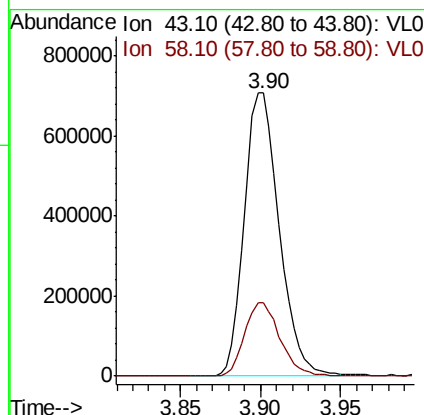
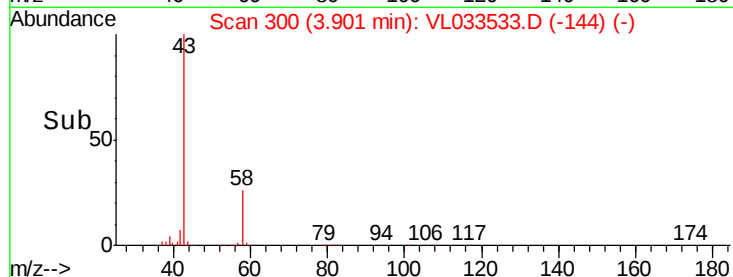
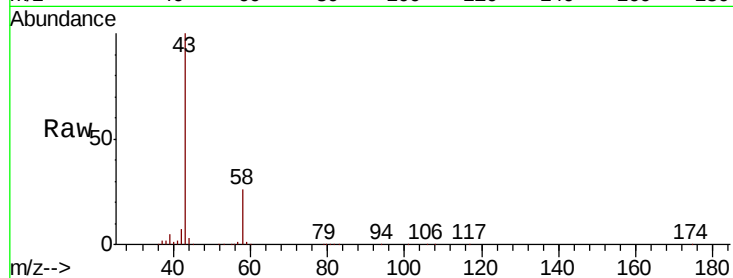
#15
Acetone
Concen: 7.682 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion: 43 Resp: 1048009
Ion Ratio Lower Upper
43 100
58 26.5 20.5 30.7

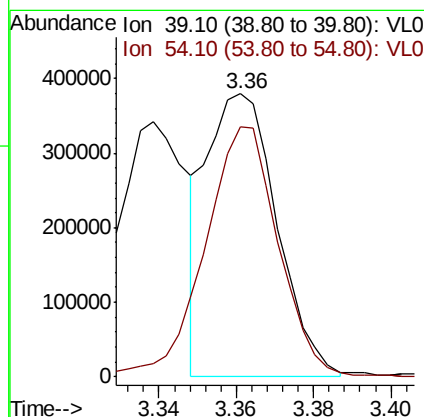
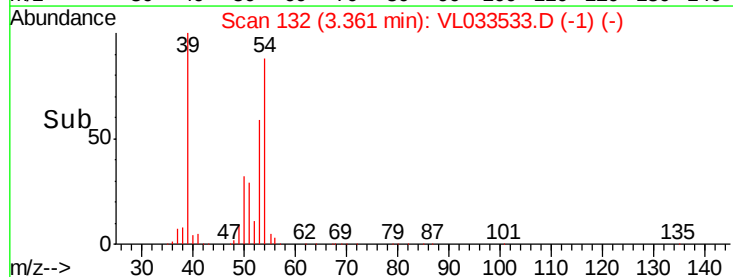
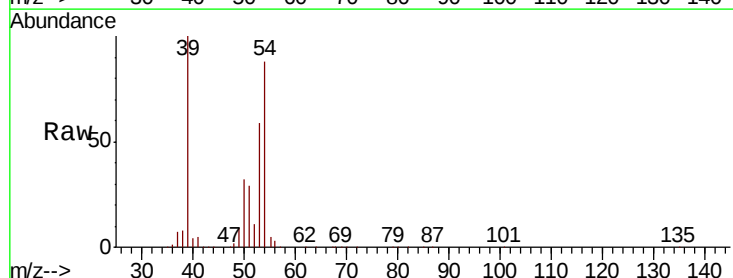
Manual Integrations
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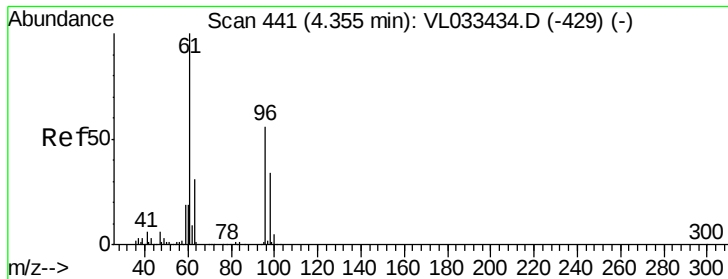
MMDadoda
4/8/2019 3:22:13 AM



#16
1,3-Butadiene
Concen: 8.776 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion: 39 Resp: 474837
Ion Ratio Lower Upper
39 100
54 94.0 69.4 104.2





#17

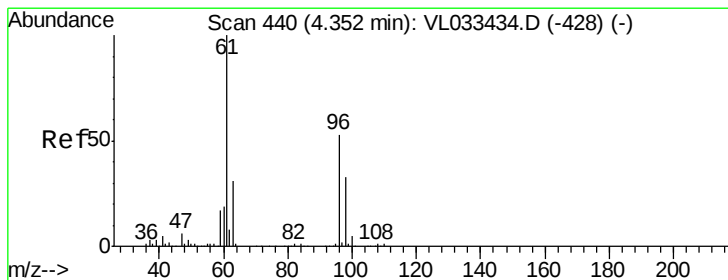
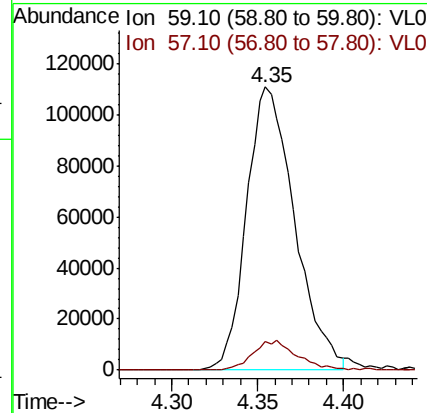
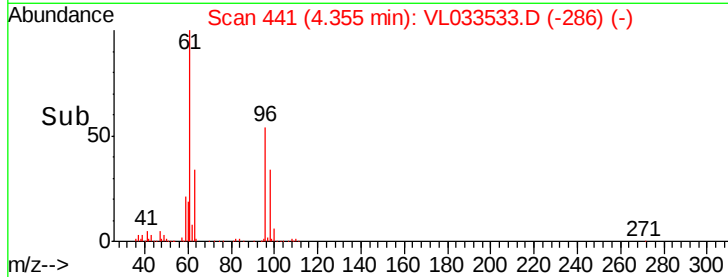
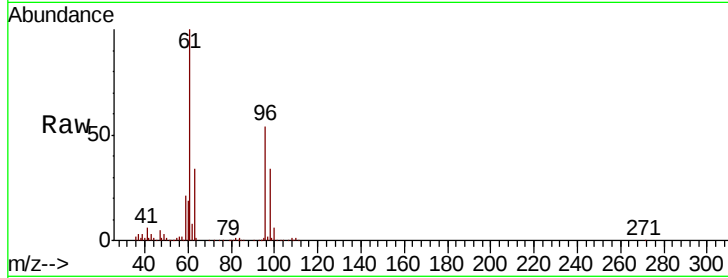
tert-Butyl alcohol
Concen: 8.560 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	59.10	Resp	214702
Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8

Manual Integrations
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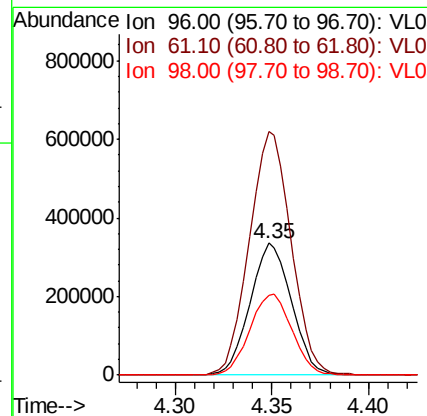
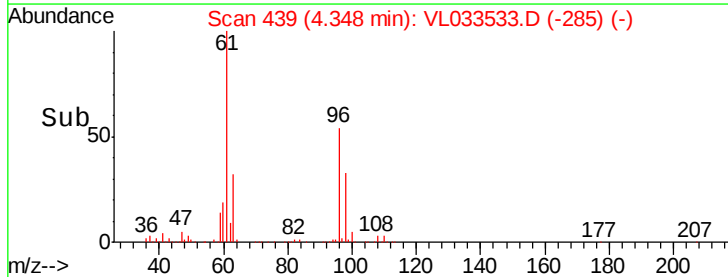
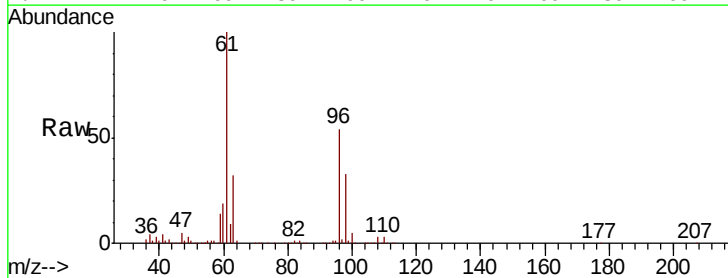
MMDadoda
4/8/2019 3:22:13 AM

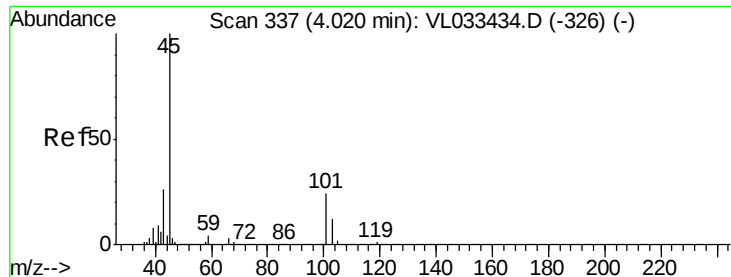


#18

1,1-Dichloroethene
Concen: 8.495 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	96	Resp	499809
Ion	Ratio	Lower	Upper
96	100		
61	184.6	149.8	224.6
98	60.9	48.7	73.1





#19

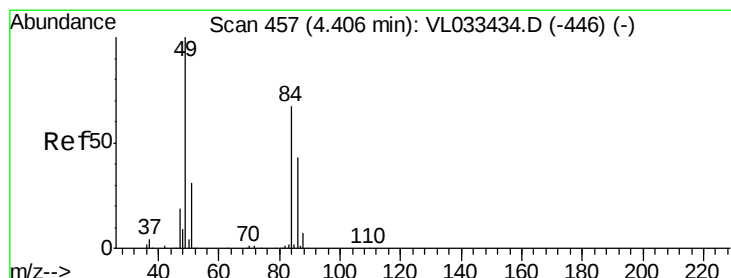
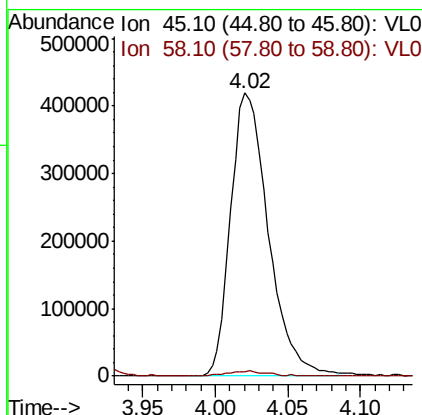
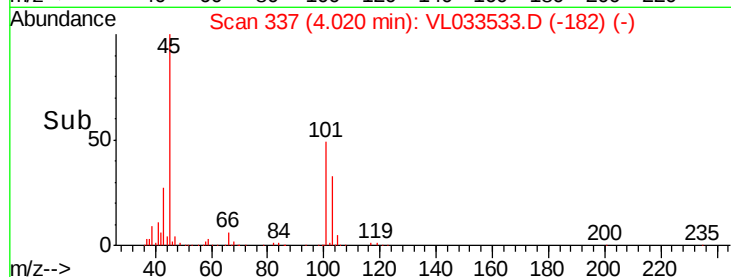
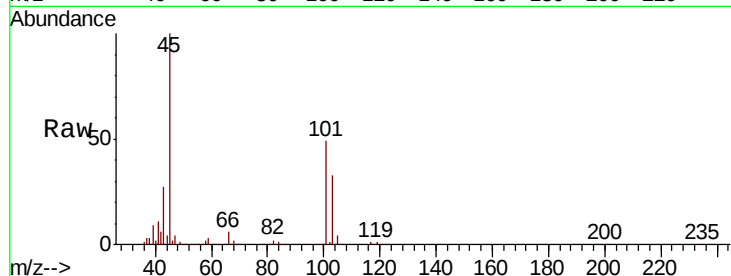
Isopropyl Alcohol
 Concen: 8.809 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.4	2.2

Manual Integrations
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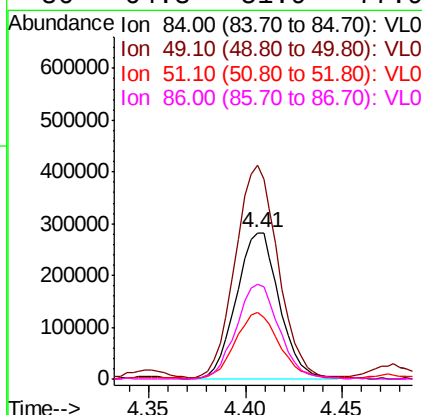
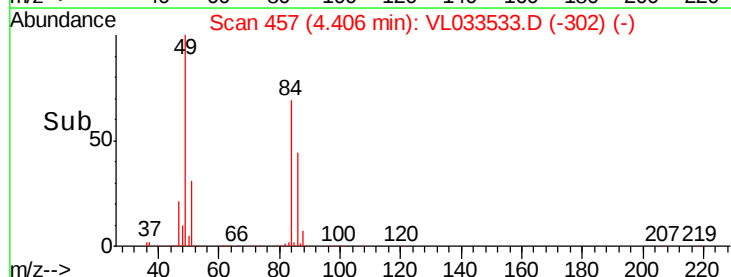
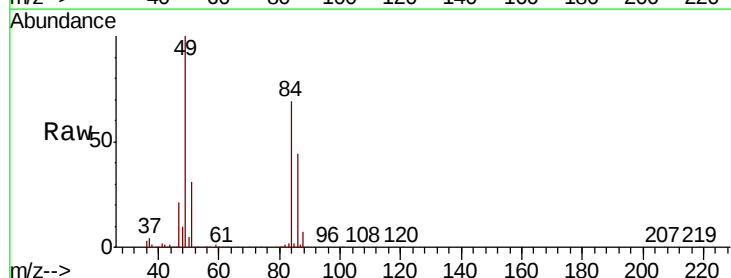
MMDadoda
 4/8/2019 3:22:13 AM

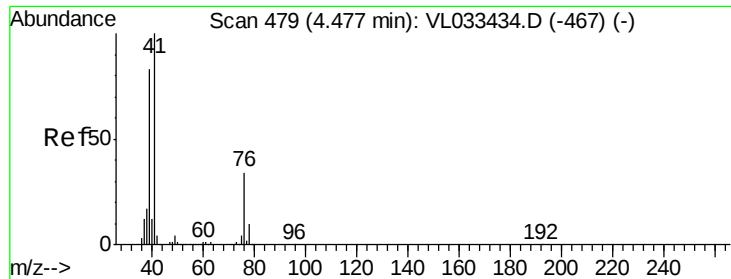


#20

Methylene Chloride
 Concen: 7.510 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.9	120.0	180.0
51	45.2	36.7	55.1
86	64.3	51.9	77.9





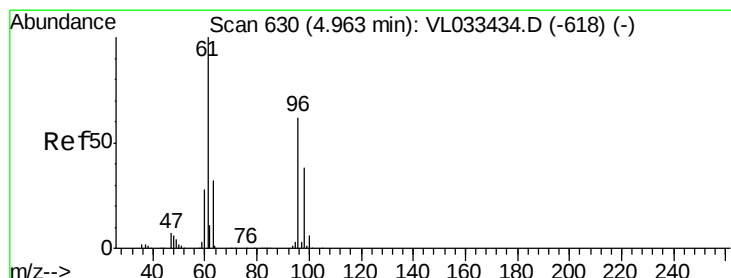
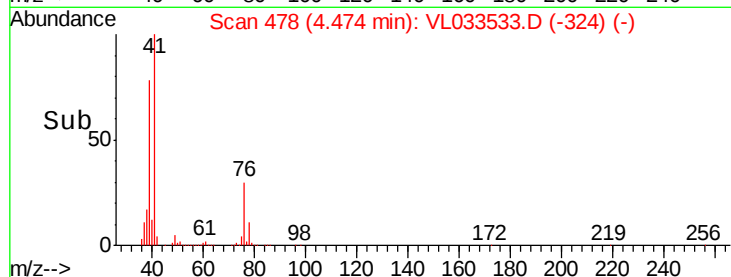
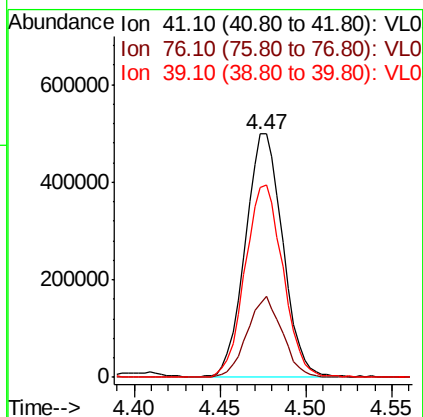
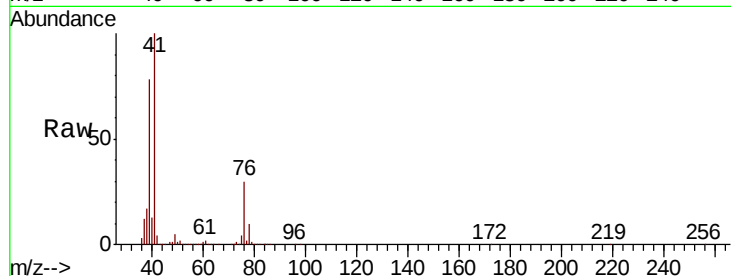
#21
Allvl Chloride
Concen: 8.703 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.5	25.4	38.2
39	80.7	65.3	97.9

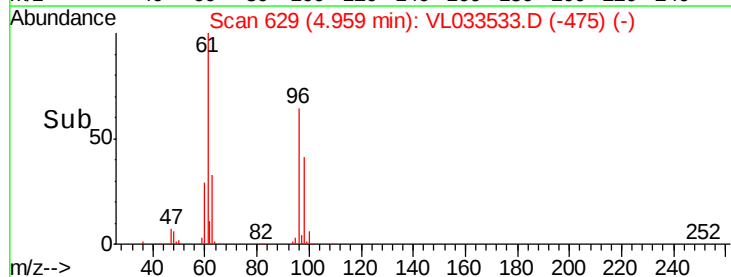
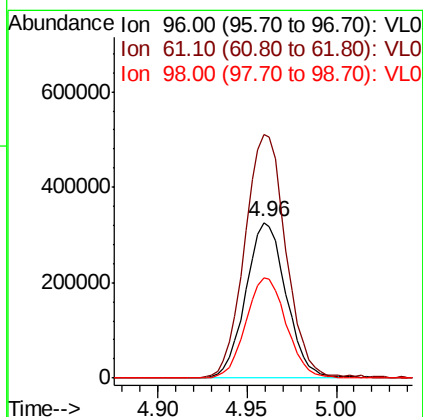
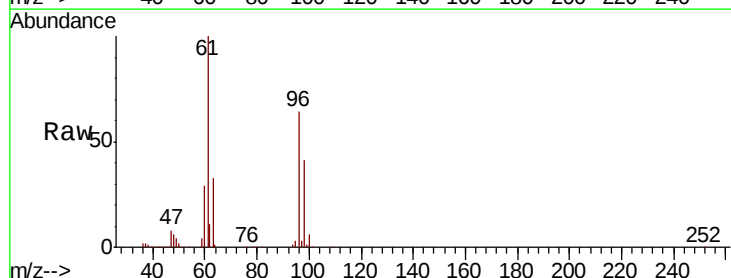
Manual Integrations
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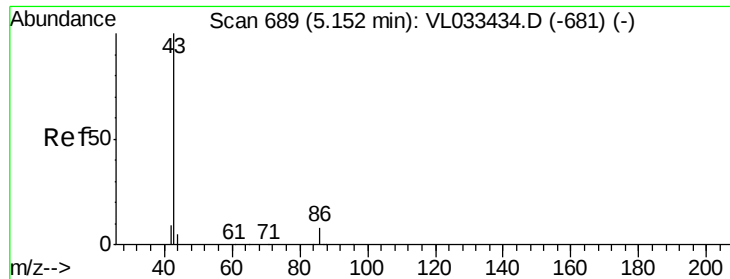
MMDadoda
4/8/2019 3:22:13 AM



#22
trans-1,2-Dichloroethene
Concen: 8.379 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.2	128.9	193.3
98	64.0	49.5	74.3





#23

Vinyl Acetate

Concen: 8.776 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 43 Resp: 1703983

Ion Ratio Lower Upper

43 100

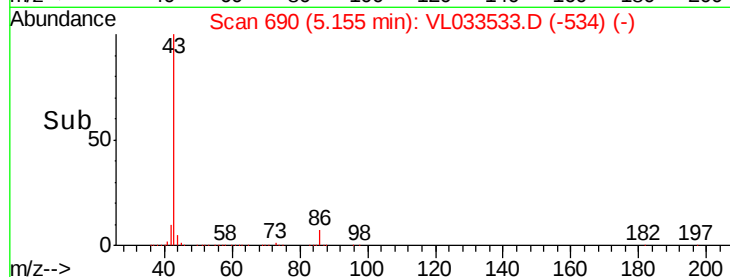
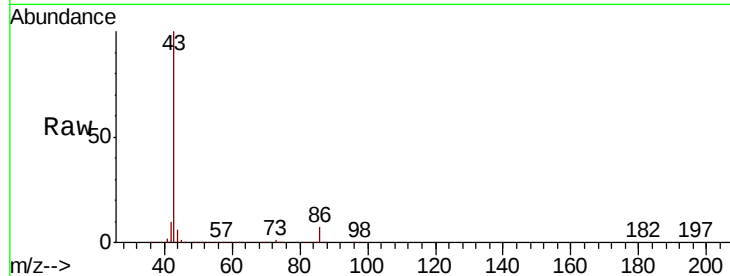
86 7.2 5.6 8.4

42 10.0 8.0 12.0

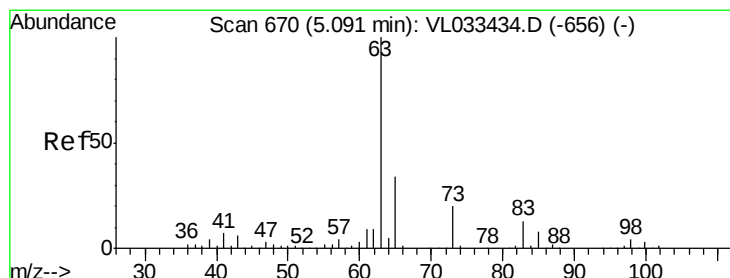
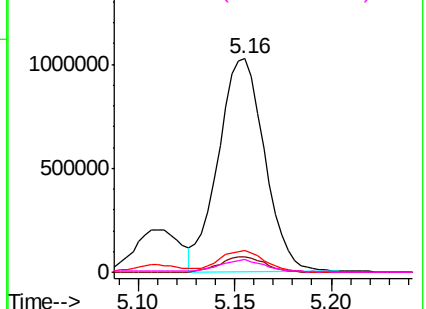
44 5.8 3.9 5.9

Manual Integrations
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4/8/2019 3:22:13 AM



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: 8.050 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

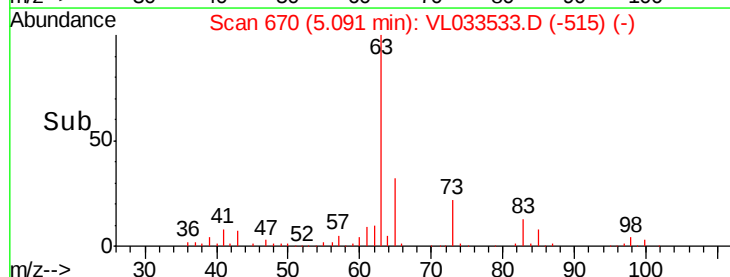
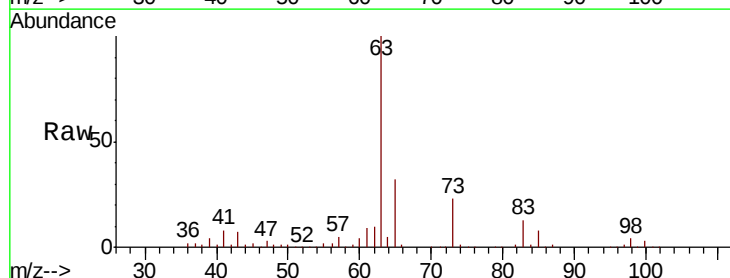
Tgt Ion: 63 Resp: 1187309

Ion Ratio Lower Upper

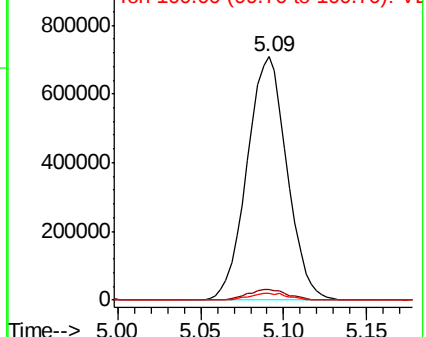
63 100

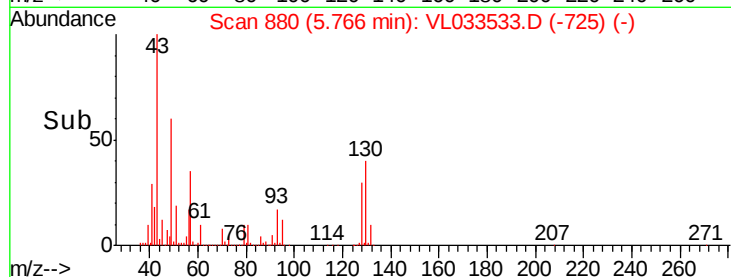
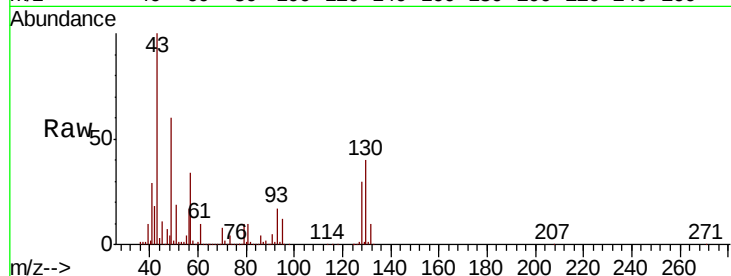
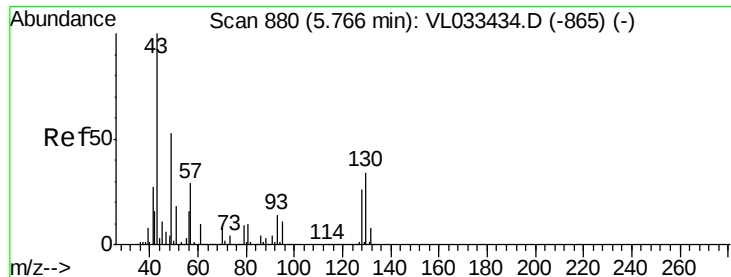
98 4.3 2.2 6.6

100 2.9 1.5 4.4



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: 7.808 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	7.8	11.6	
61	9.4	7.3	10.9	
70	7.0	5.6	8.4	

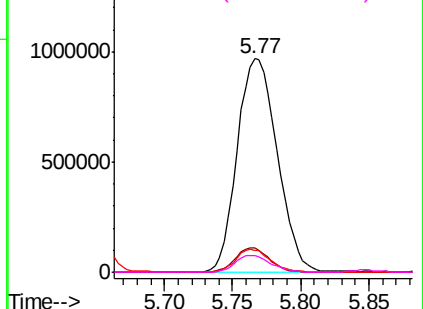
Abundance

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

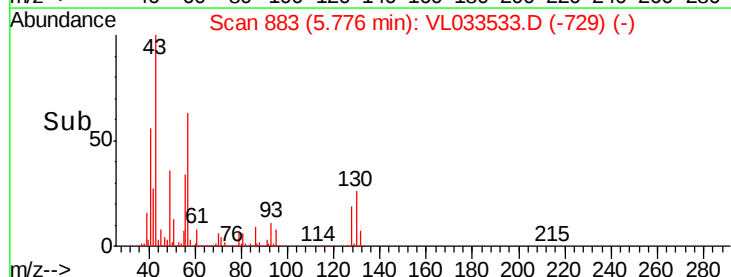
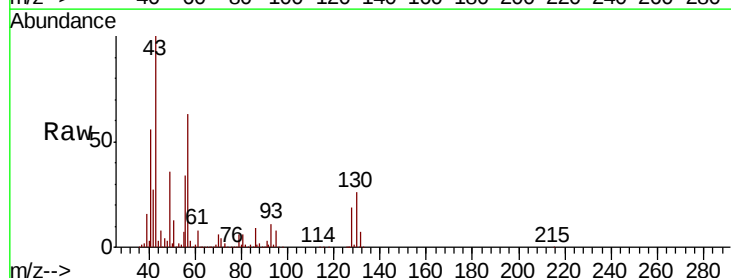
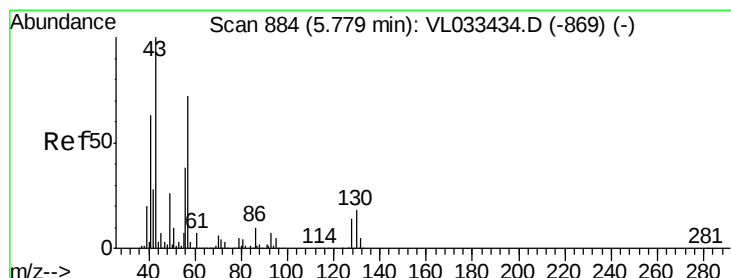
Ion 70.10 (69.80 to 70.80): VL0



Instrument :
MSVOA_L
ClientSampled :
VL0404ABS01

Manual Integrations
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#26
Hexane
Concen: 7.890 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.4	70.7	106.1	
43	223.8	182.6	274.0	
56	53.4	42.0	63.0	

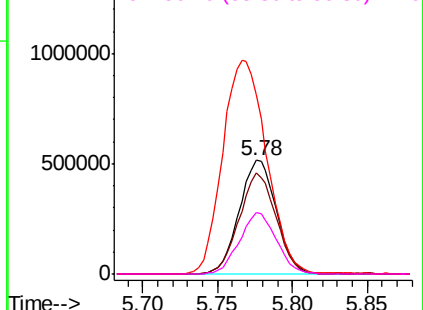
Abundance

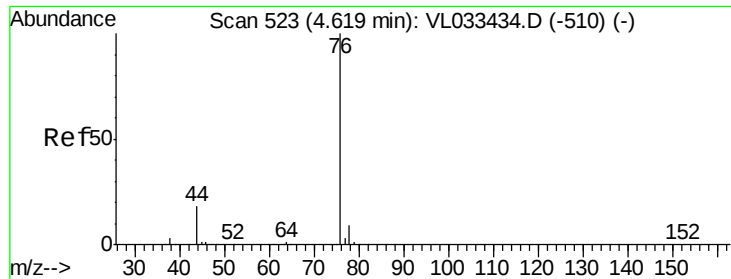
Ion 57.10 (56.80 to 57.80): VL0

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: 9.262 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 76 Resp: 1239543

Ion Ratio Lower Upper

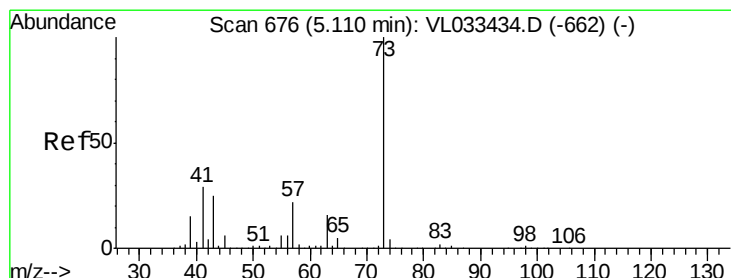
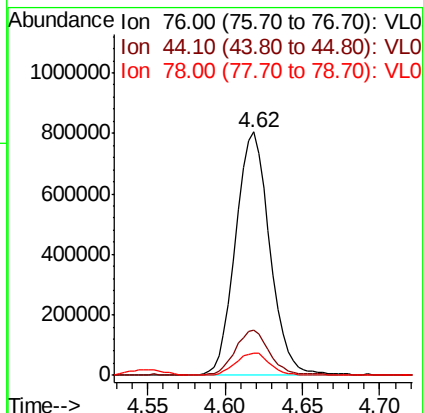
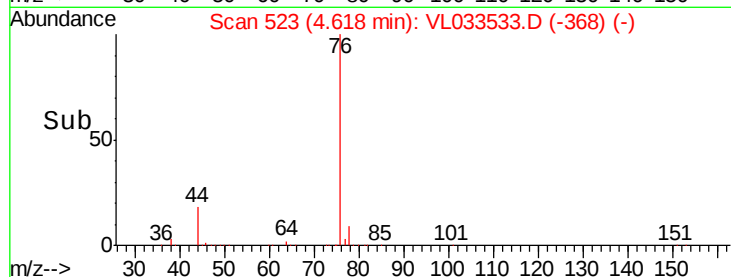
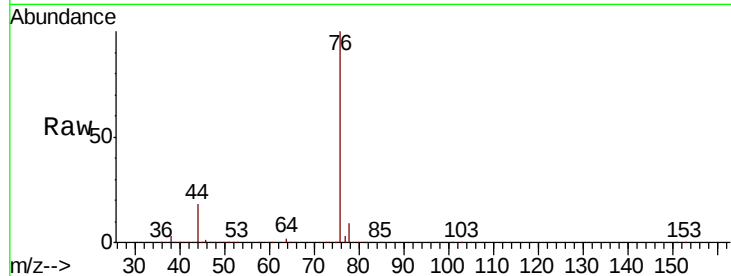
76 100

44 18.3 14.8 22.2

78 9.4 7.6 11.4

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 8.808 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033533.D

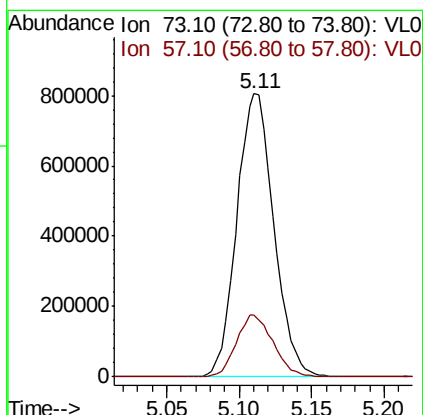
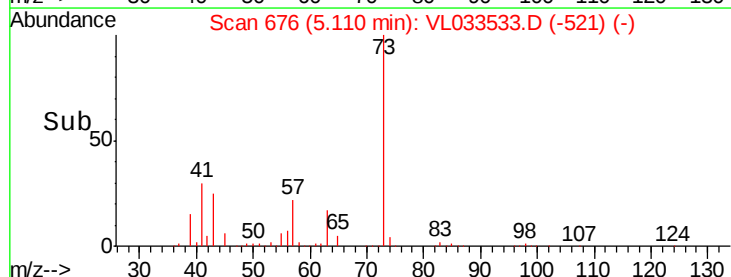
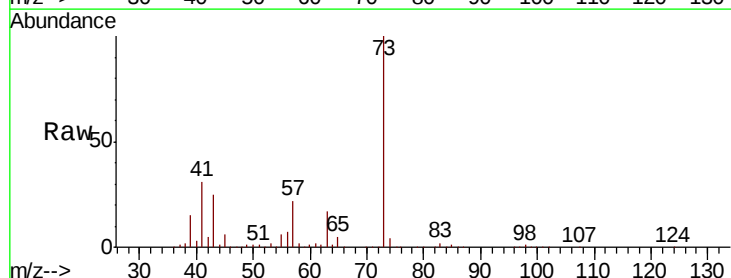
Acq: 4 Apr 2019 14:48

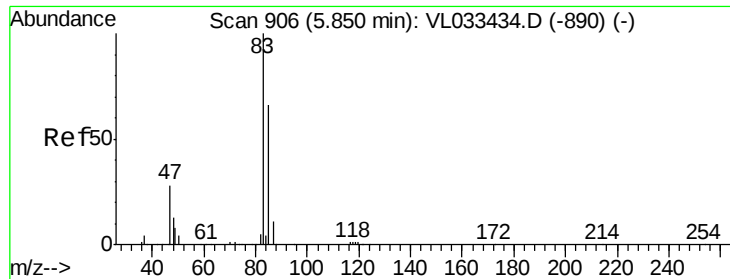
Tgt Ion: 73 Resp: 1427751

Ion Ratio Lower Upper

73 100

57 21.9 17.4 26.2





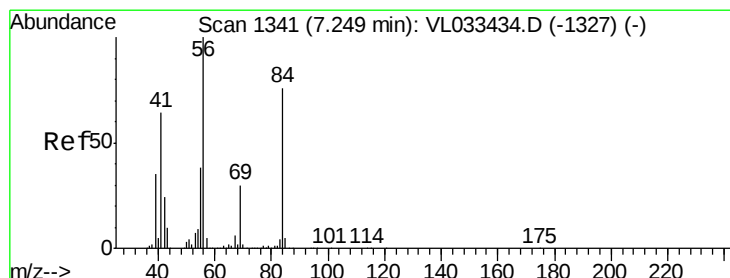
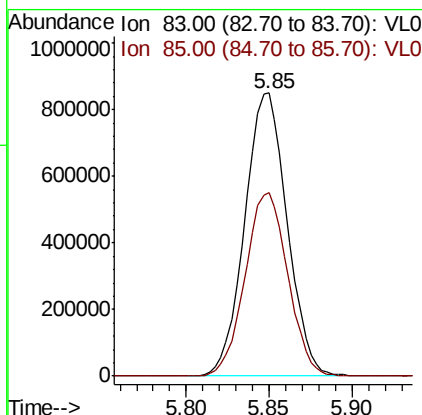
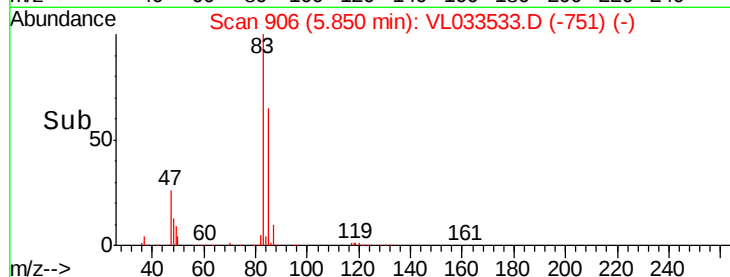
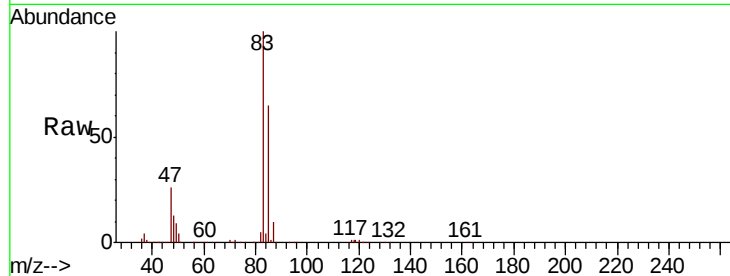
#29
Chloroform
Concen: 7.840 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion: 83 Resp: 1512407
Ion Ratio Lower Upper
83 100
85 64.6 52.6 79.0

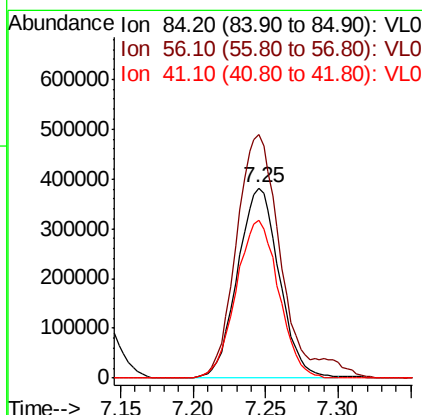
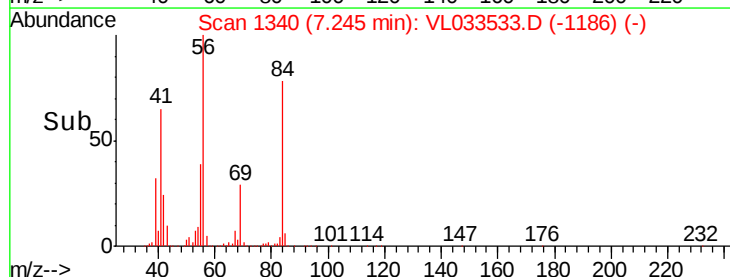
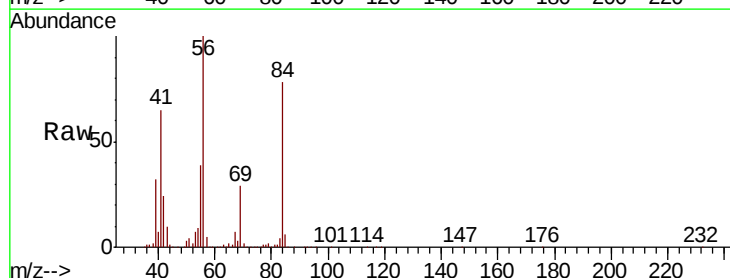
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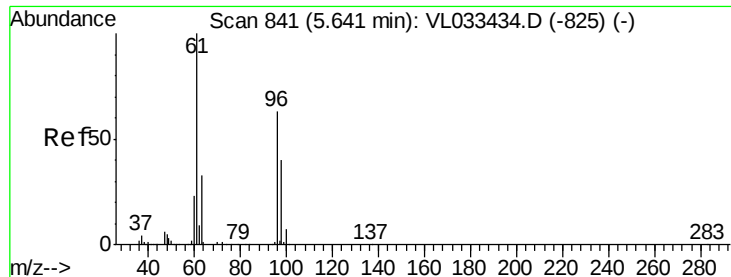
MMDadoda
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#30
Cyclohexane
Concen: 8.535 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion: 84 Resp: 759896
Ion Ratio Lower Upper
84 100
56 139.0 109.7 164.5
41 84.9 68.2 102.2





#31

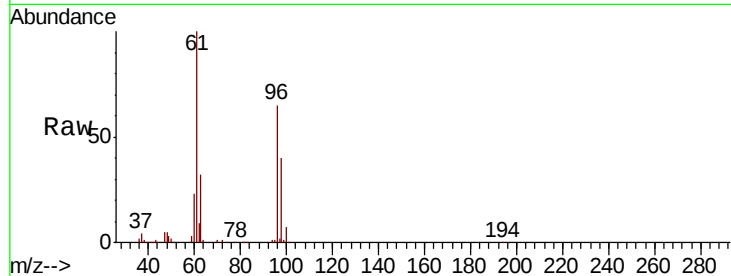
cis-1,2-Dichloroethene
 Concen: 8.474 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

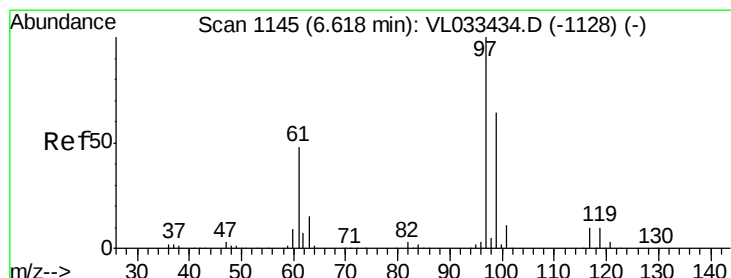
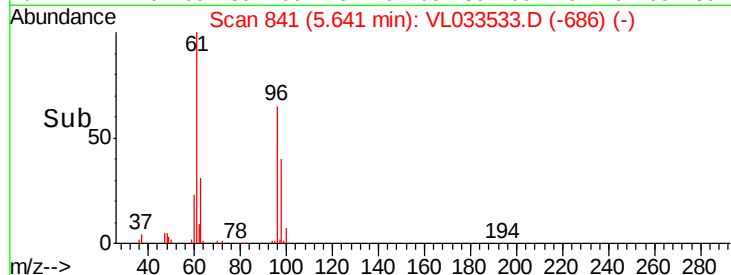
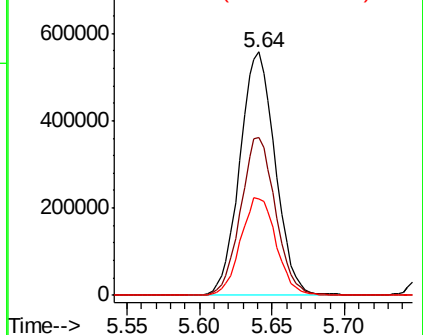
Tot Ion	Ratio	Lower	Upper
61	100		
96	64.8	50.6	76.0
98	39.6	32.2	48.2

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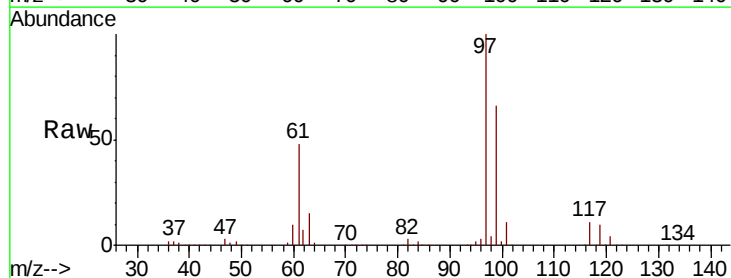
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



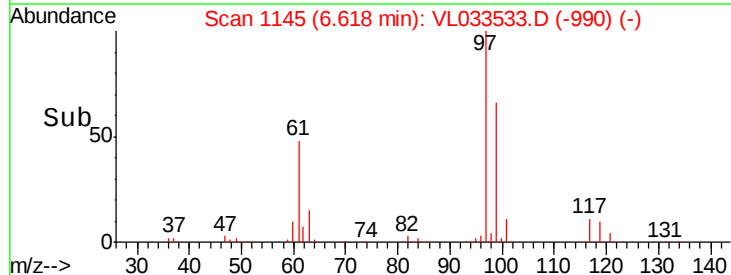
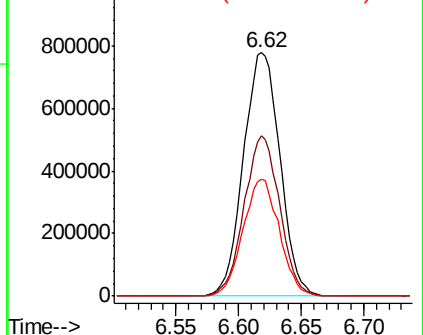
#32

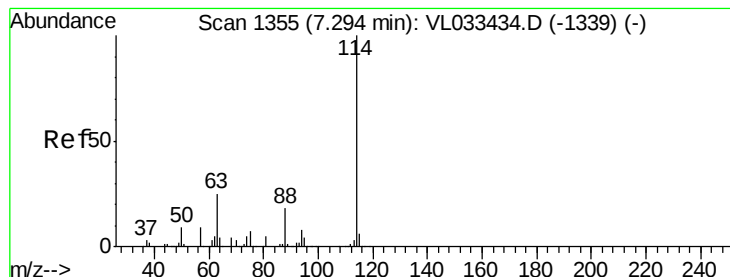
1,1,1-Trichloroethane
 Concen: 8.607 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	47.7	38.8	58.2



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:114 Resp: 2694618

Ion Ratio Lower Upper

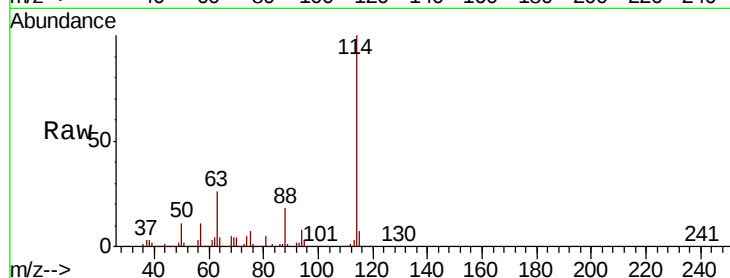
114 100

63 26.8 21.5 32.3

88 18.3 14.5 21.7

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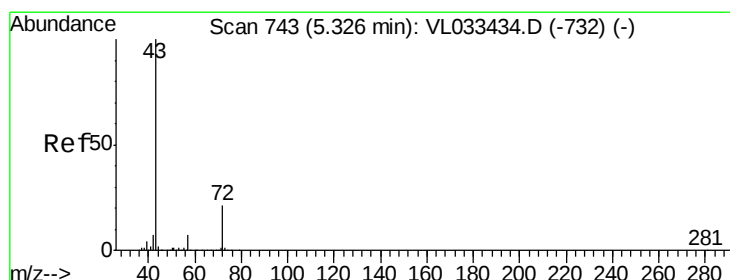
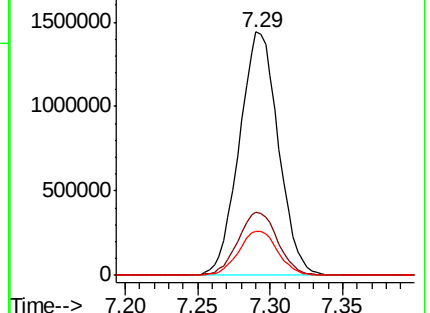
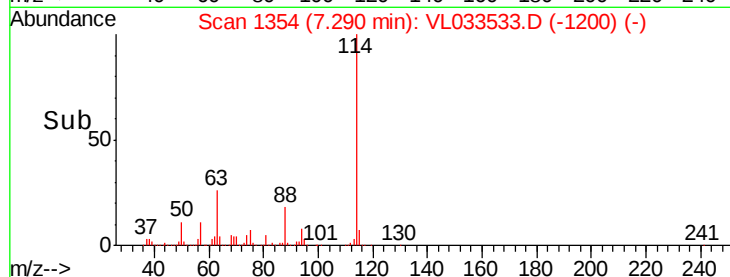
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.302 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033533.D

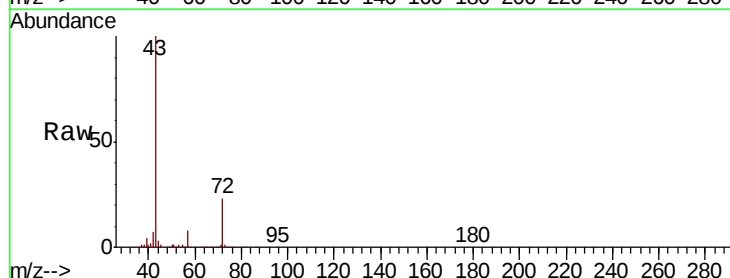
Acq: 4 Apr 2019 14:48

Tgt Ion: 43 Resp: 1344026

Ion Ratio Lower Upper

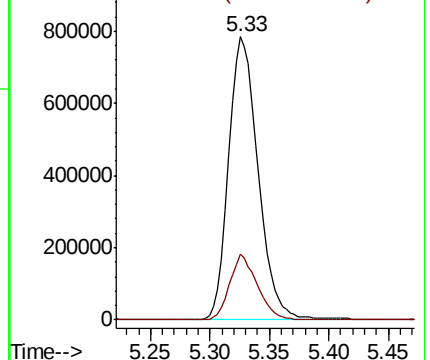
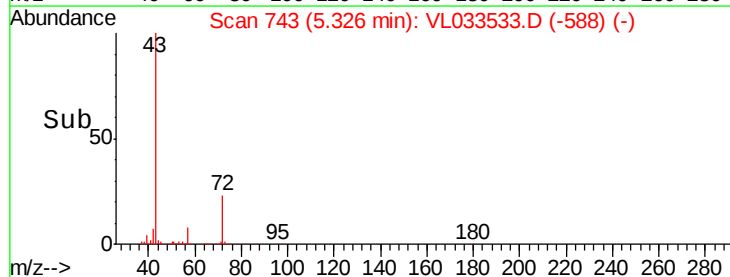
43 100

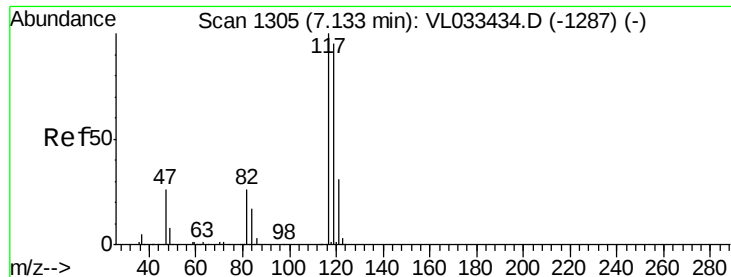
72 21.8 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.778 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:117 Resp: 1675274

Ion Ratio Lower Upper

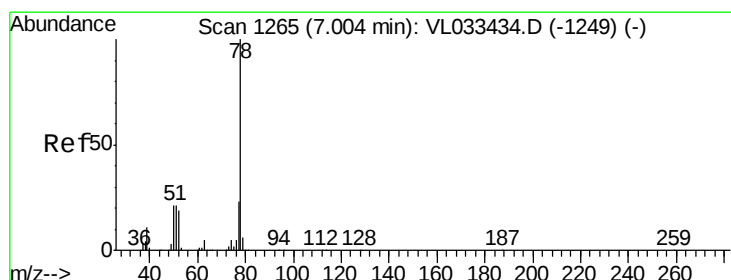
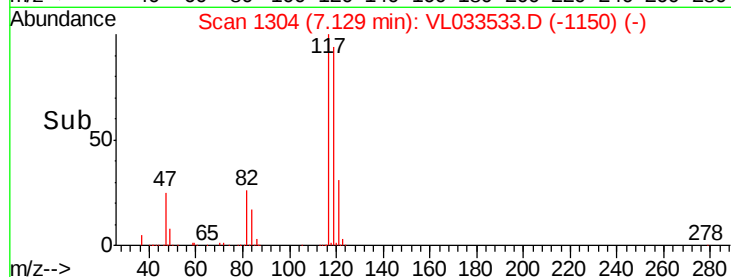
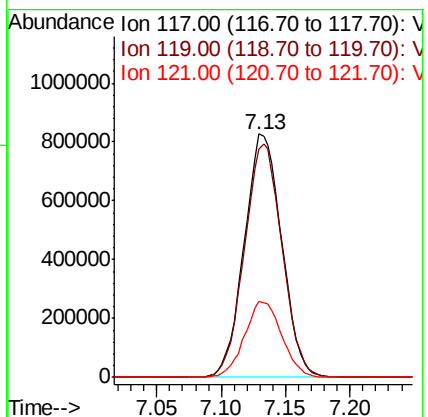
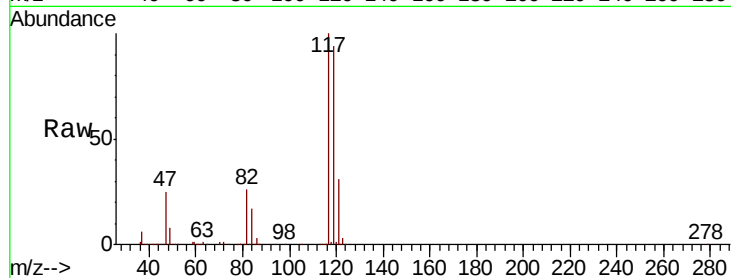
117 100

119 93.8 75.8 113.8

121 31.2 24.7 37.1

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#36

Benzene

Concen: 8.164 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

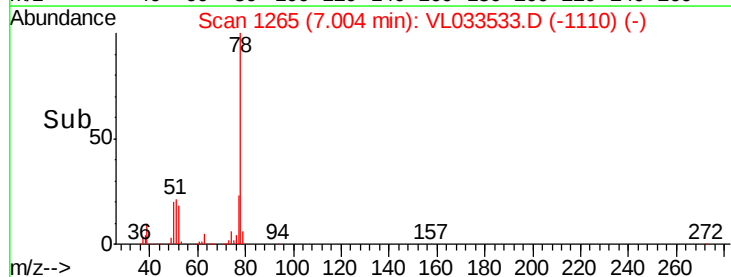
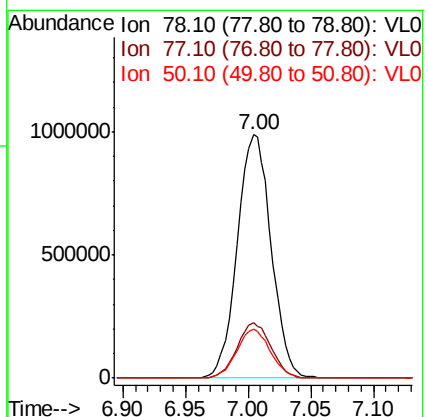
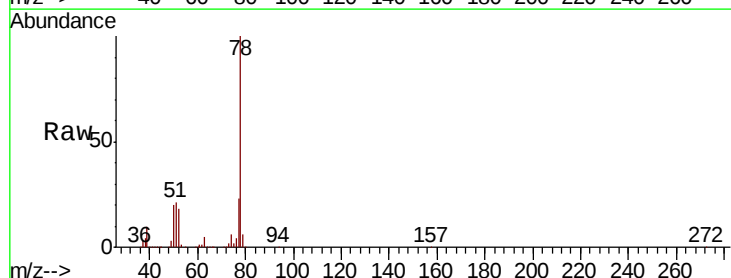
Tgt Ion: 78 Resp: 1845910

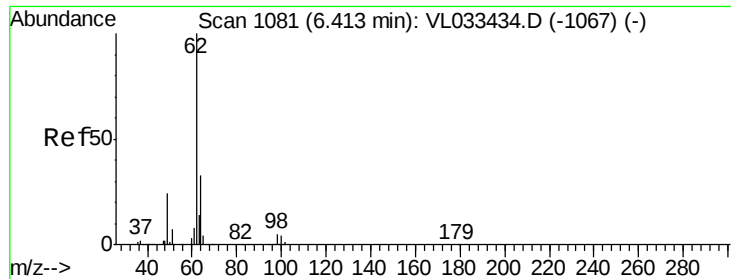
Ion Ratio Lower Upper

78 100

77 22.9 18.1 27.1

50 20.0 16.7 25.1





#37

1,2-Dichloroethane

Concen: 7.818 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 62 Resp: 1184727

Ion Ratio Lower Upper

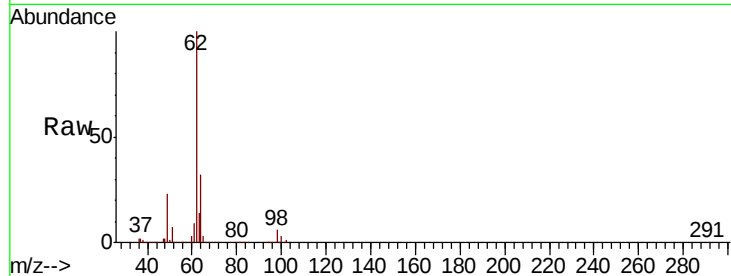
62 100

98 5.6 4.4 6.6

Manual Integrations
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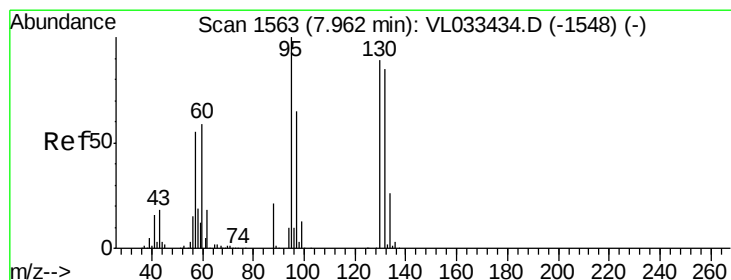
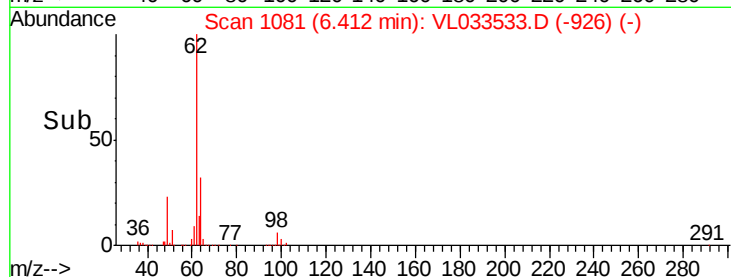
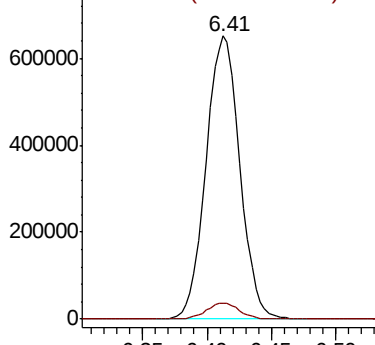
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 8.756 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Tgt Ion:130 Resp: 745035

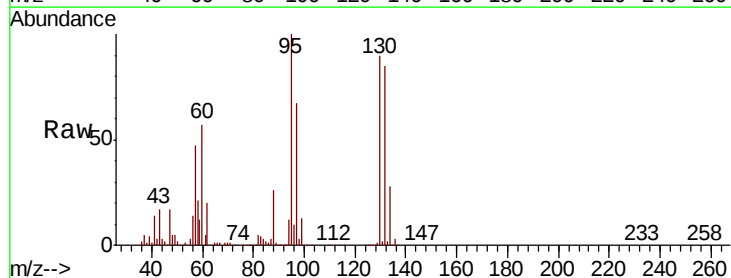
Ion Ratio Lower Upper

130 100

95 111.1 89.8 134.8

132 94.7 76.6 115.0

97 74.2 58.6 88.0

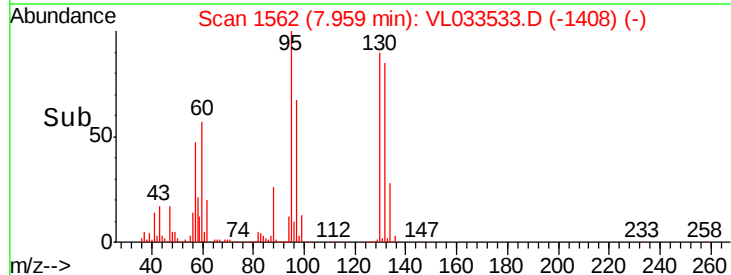
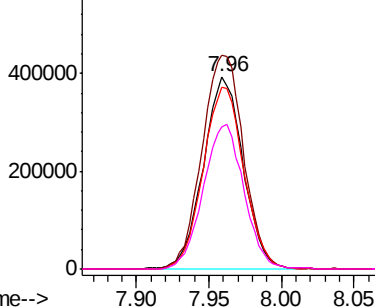


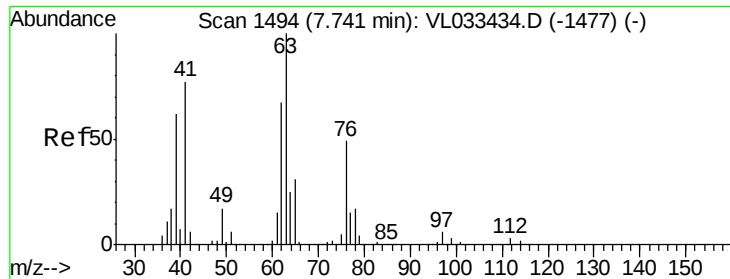
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





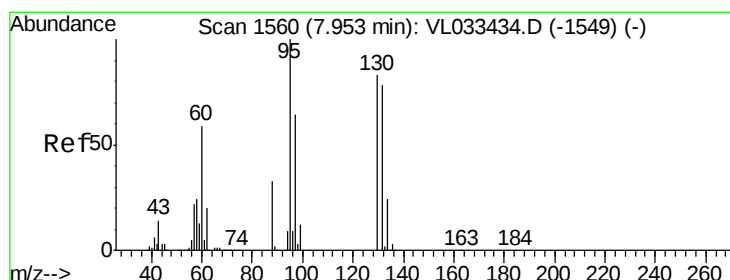
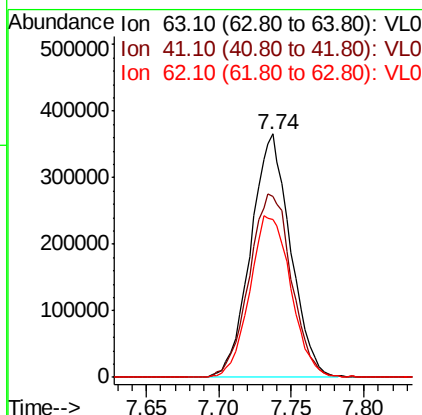
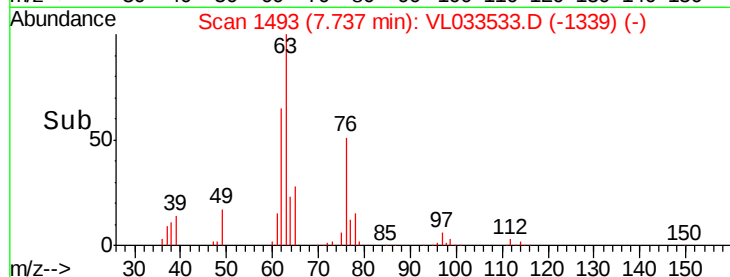
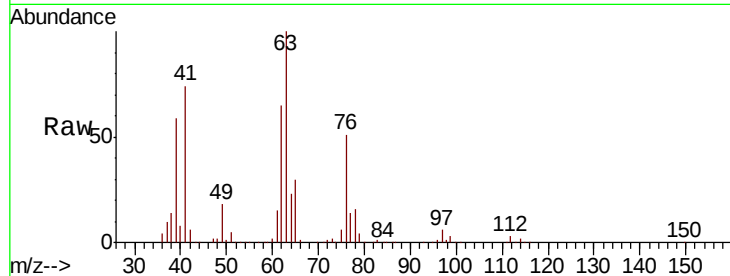
#39
 1,2-Dichloropropane
 Concen: 7.847 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.2	61.2	91.8
62	64.8	54.0	81.0

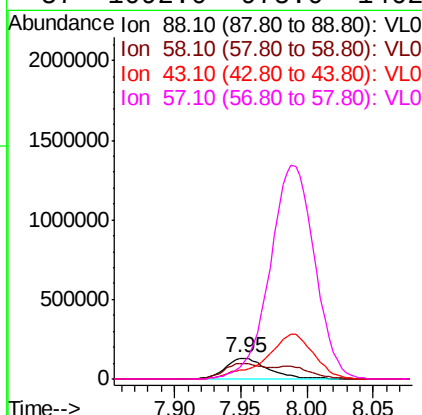
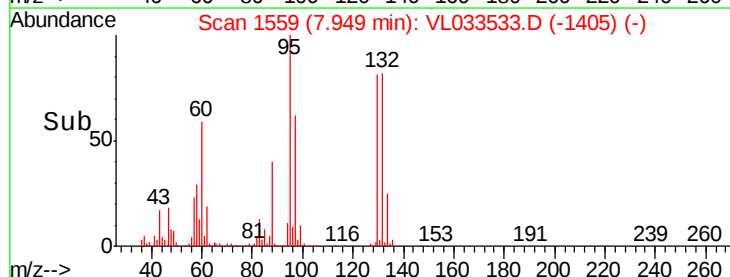
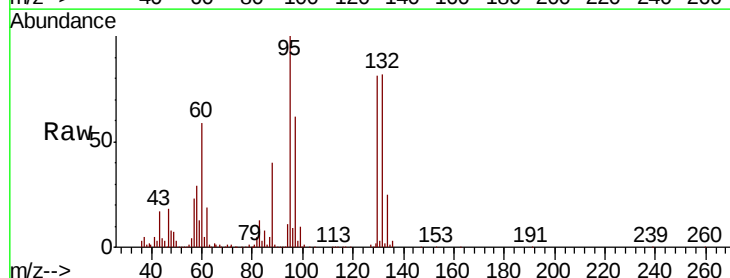
Manual Integrations
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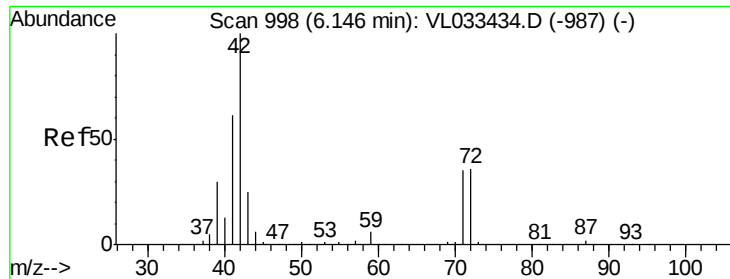
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#40
 1,4-Dioxane
 Concen: 9.186 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
88	100		
58	124.6	105.6	158.4
43	247.9	216.7	325.1
57	1092.0	975.0	1462.4





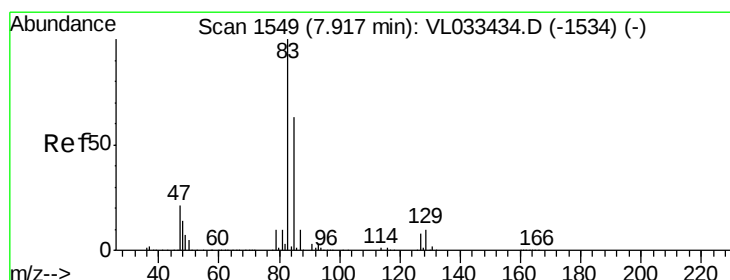
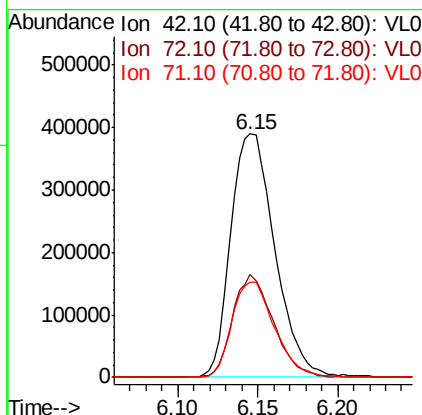
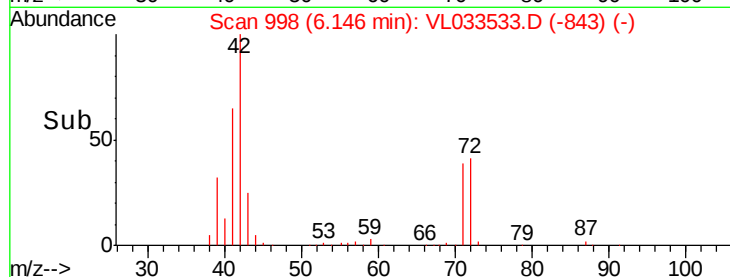
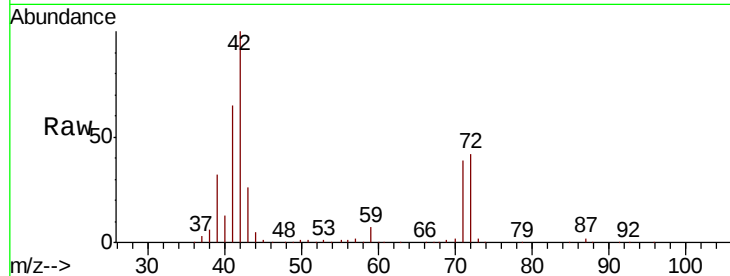
#41
Tetrahydrofuran
Concen: 8.224 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.2	30.2	45.2
71	38.0	29.4	44.2

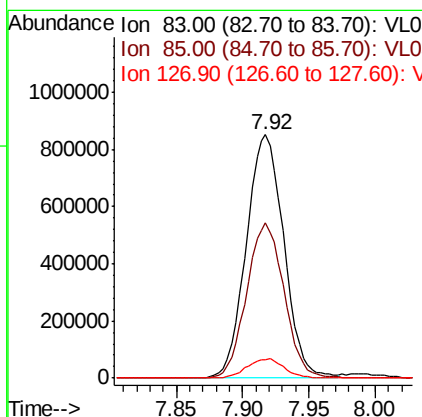
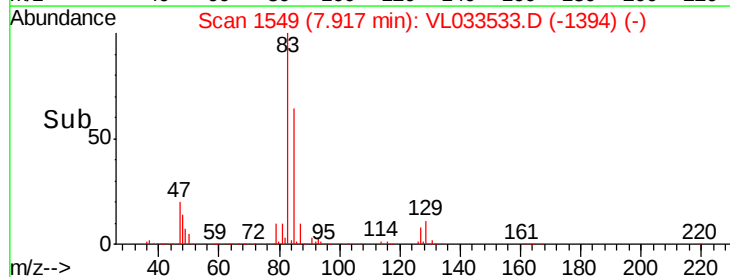
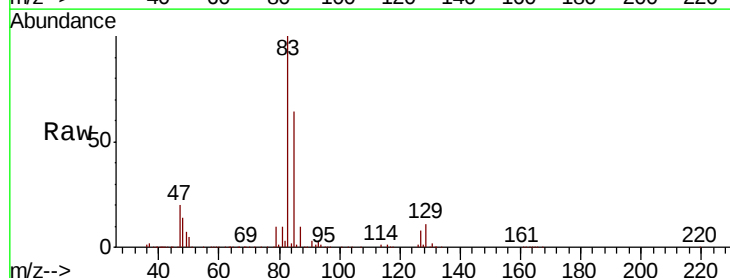
Manual Integrations
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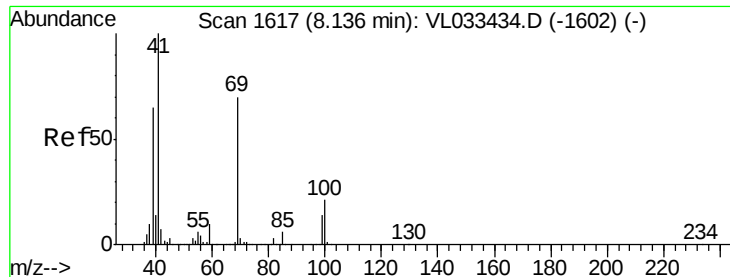
MMDadoda
4/8/2019 3:22:13 AM



#42
Bromodichloromethane
Concen: 8.142 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.7	76.1
127	7.5	6.6	9.8





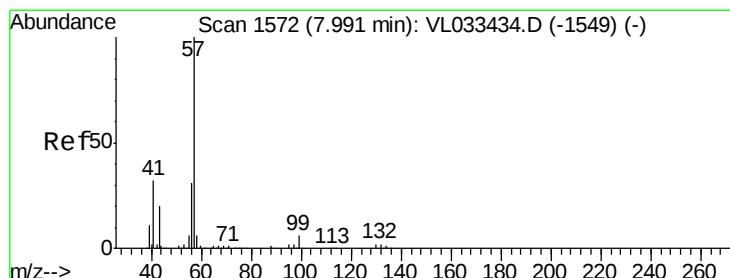
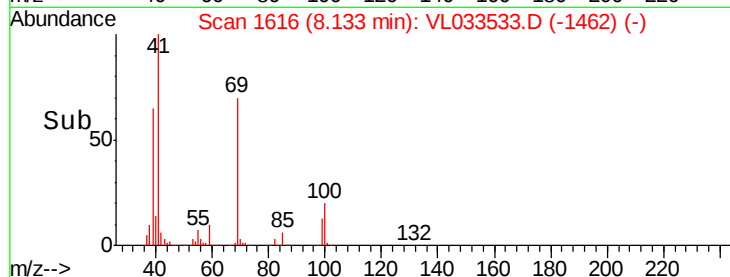
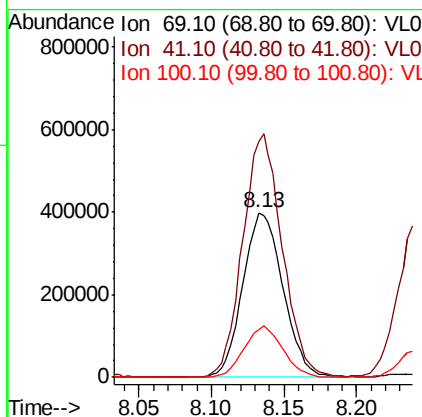
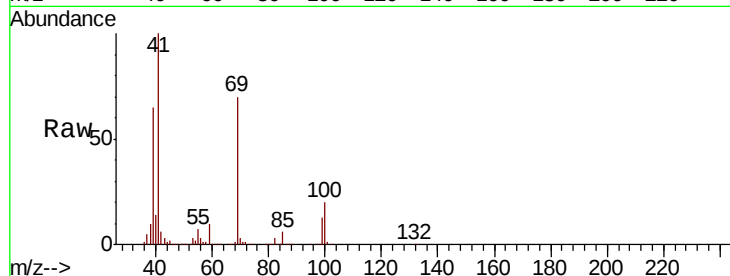
#43
Methvl Methacrylate
Concen: 8.377 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.2	116.6	174.8
100	30.1	24.4	36.6

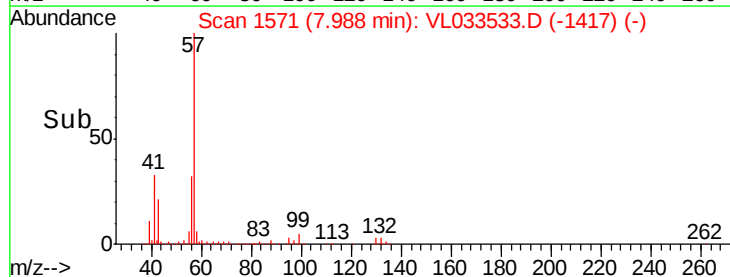
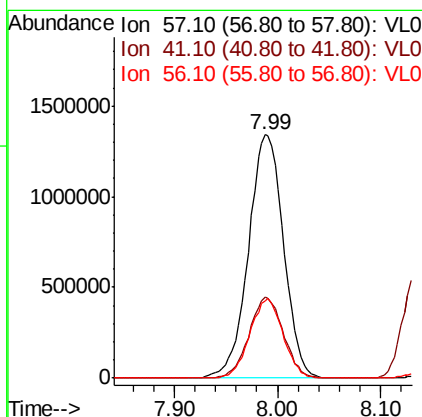
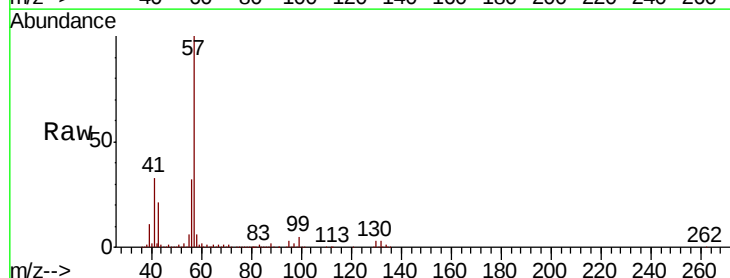
Manual Integrations
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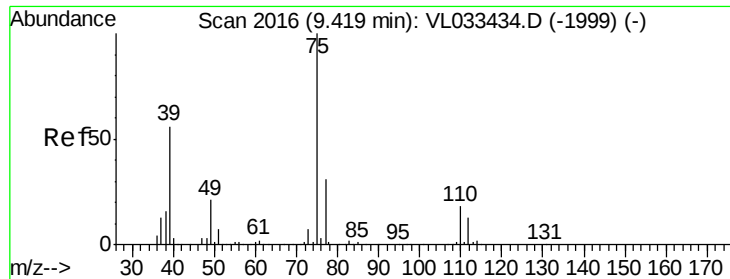
MMDadoda
4/8/2019 3:22:13 AM



#44
2,2,4-Trimethylpentane
Concen: 8.013 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.5	26.0	39.0
56	30.9	24.6	37.0





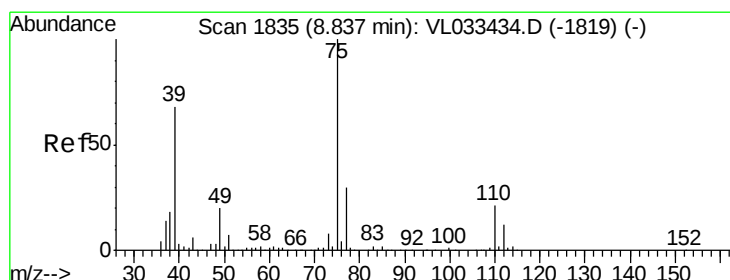
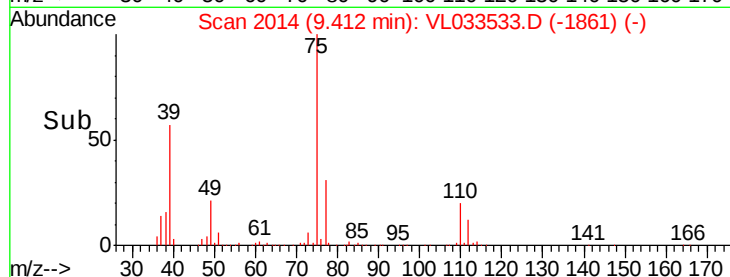
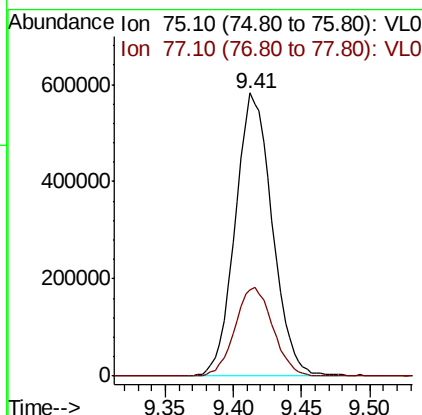
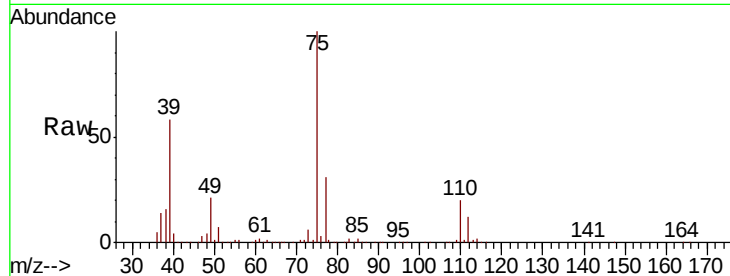
#45
 t-1,3-Dichloropropene
 Concen: 9.720 ppbv
 RT: 9.41 min Scan# 2014
 Delta R.T. -0.01 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion: 75 Resp: 1095610
 Ion Ratio Lower Upper
 75 100
 77 30.6 24.5 36.7

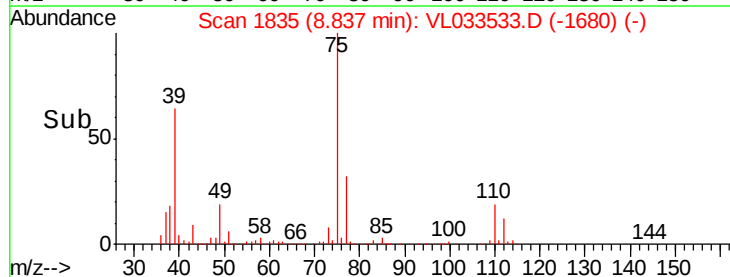
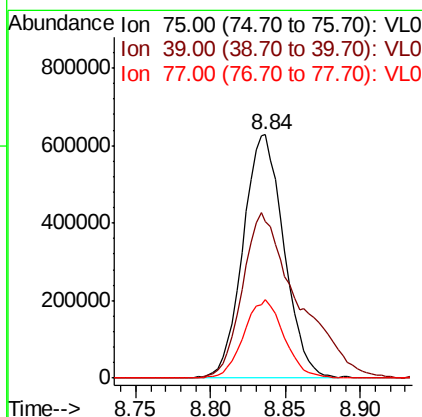
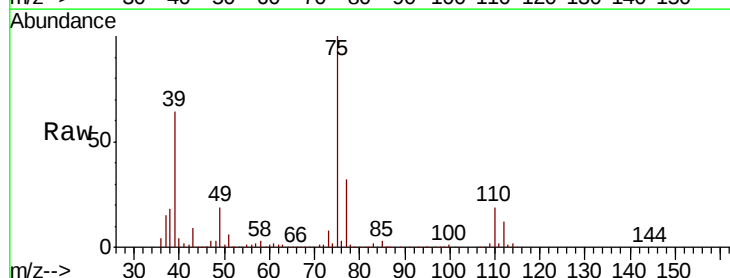
Manual Integrations
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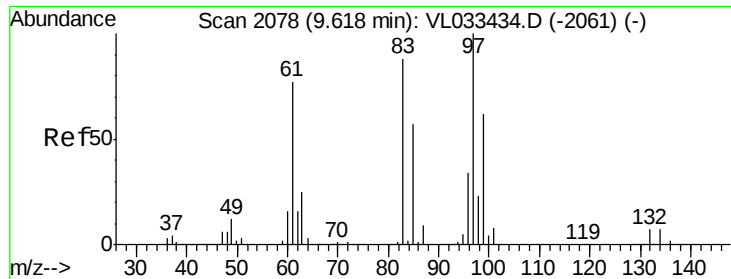
MMDadoda
 4/8/2019 3:22:13 AM



#46
 cis-1,3-Dichloropropene
 Concen: 9.035 ppbv
 RT: 8.84 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion: 75 Resp: 1189247
 Ion Ratio Lower Upper
 75 100
 39 64.5 54.1 81.1
 77 32.4 23.9 35.9





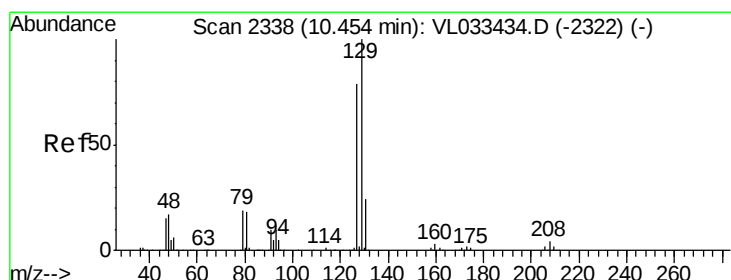
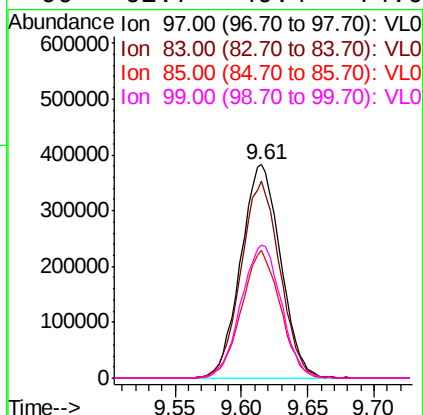
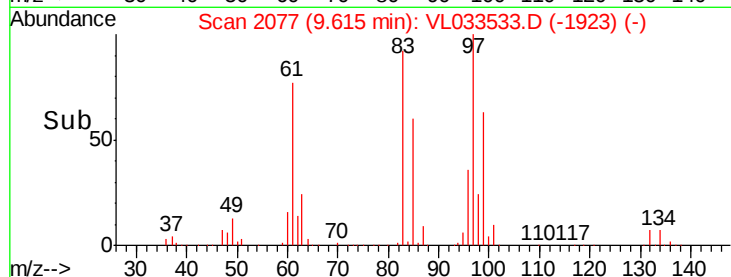
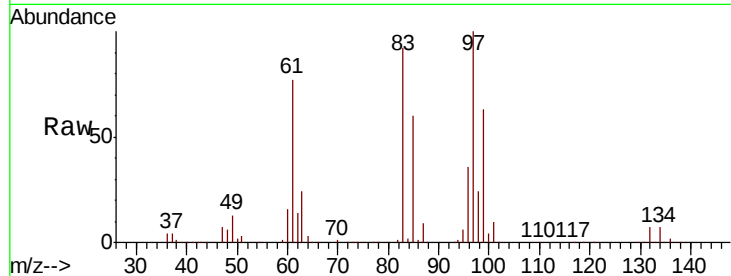
#47
 1,1,2-Trichloroethane
 Concen: 7.947 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		799233		
83	92.2	70.5	105.7		
85	59.9	45.6	68.4		
99	62.7	49.4	74.0		

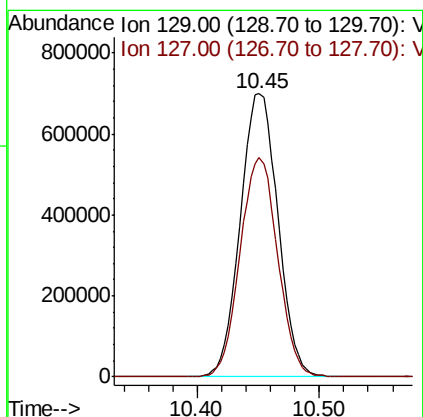
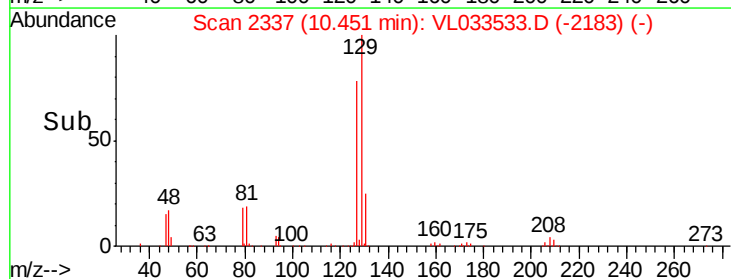
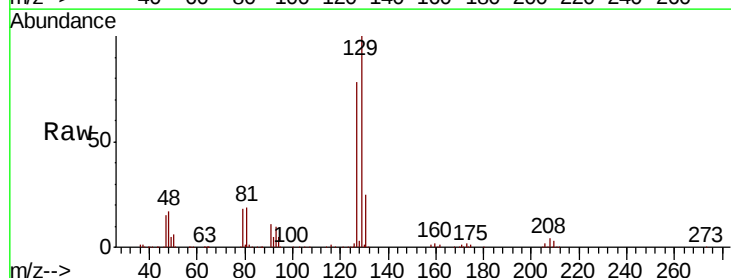
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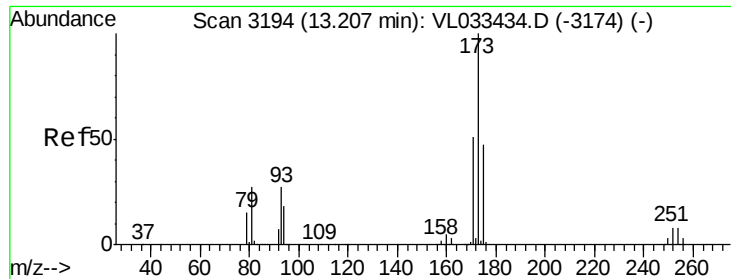
MMDadoda
 4/8/2019 3:22:13 AM



#48
 Dibromochloromethane
 Concen: 8.777 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1488881		
127	77.4	39.1	117.2		





#49

Bromoform

Concen: 8.486 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:173 Resp: 1375170

Ion Ratio Lower Upper

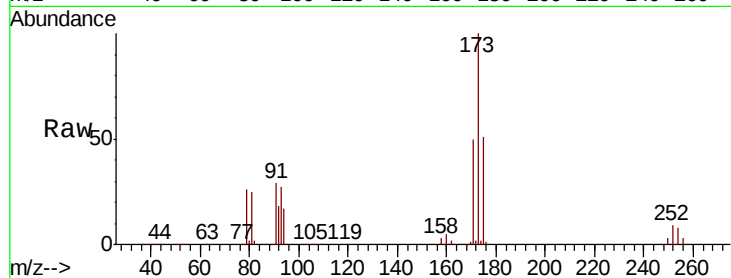
173 100

175 48.9 39.3 58.9

171 51.8 41.2 61.8

Manual Integrations
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MMDadoda
4/8/2019 3:22:13 AM

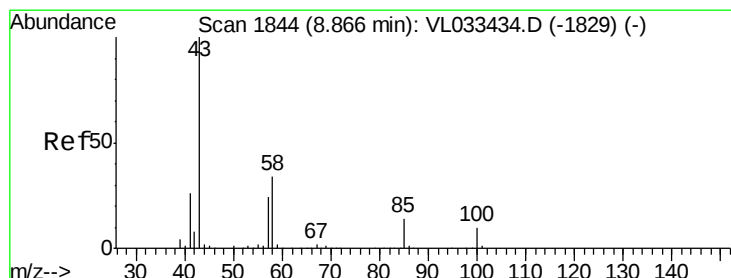
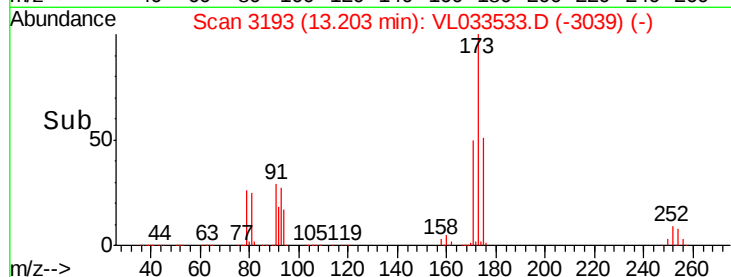
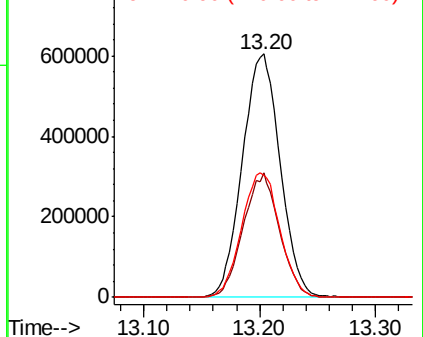


Abundance

Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.268 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033533.D

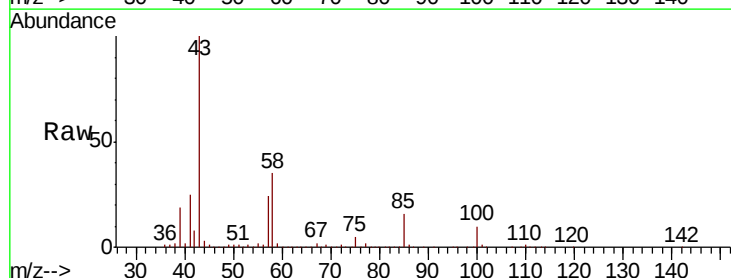
Acq: 4 Apr 2019 14:48

Tgt Ion: 43 Resp: 1960032

Ion Ratio Lower Upper

43 100

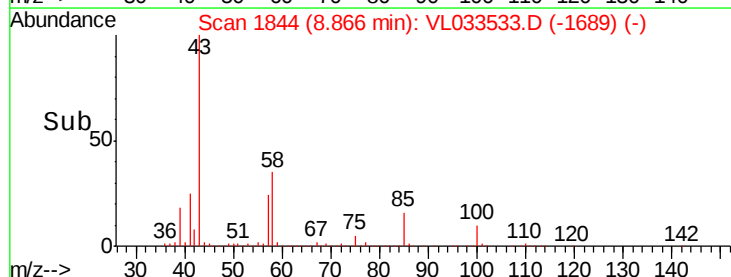
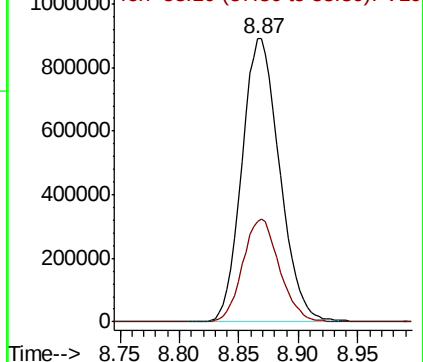
58 35.5 28.0 42.0

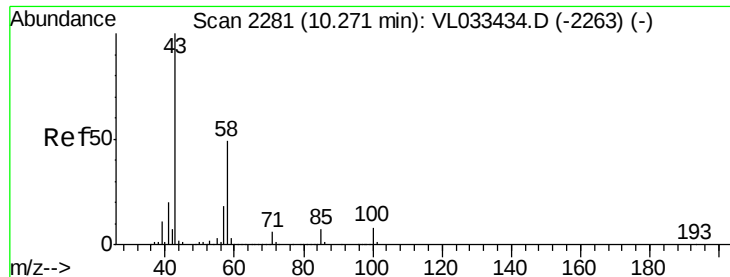


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





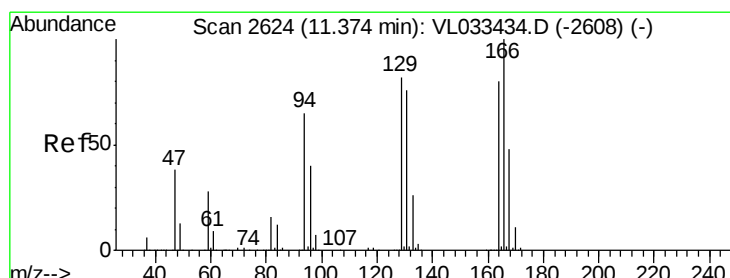
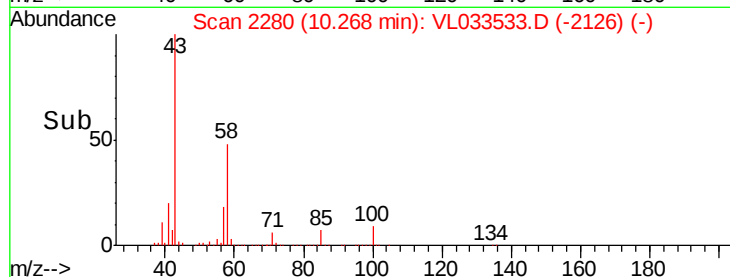
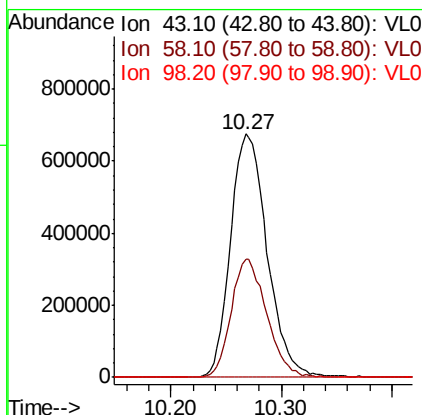
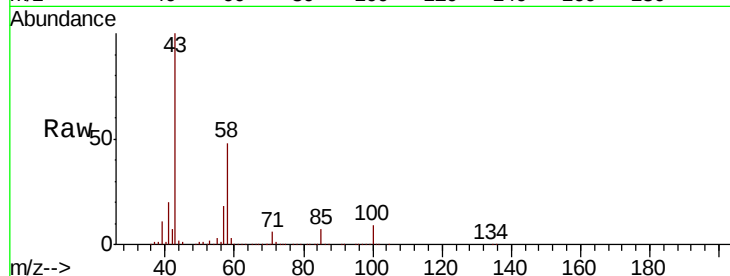
#51
2-Hexanone
Concen: 8.794 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion: 43 Resp: 1555108
Ion Ratio Lower Upper
43 100
58 47.2 38.2 57.2
98 0.4 0.2 0.2#

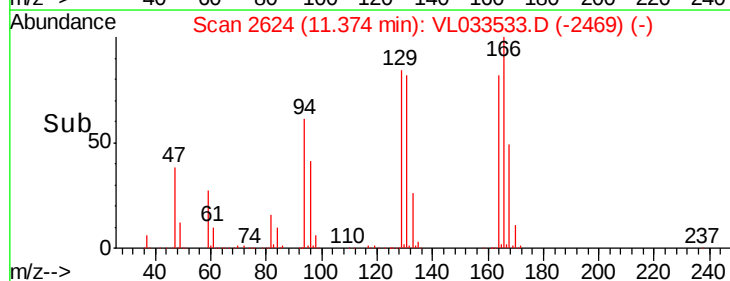
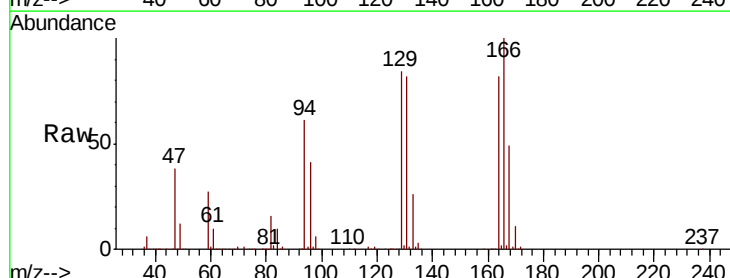
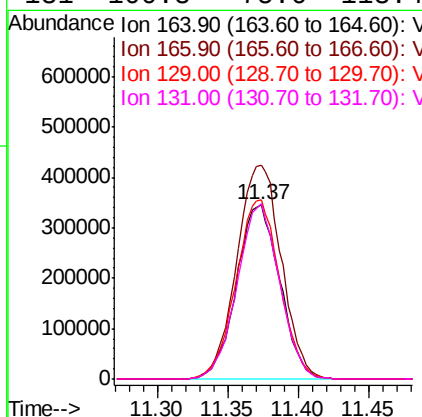
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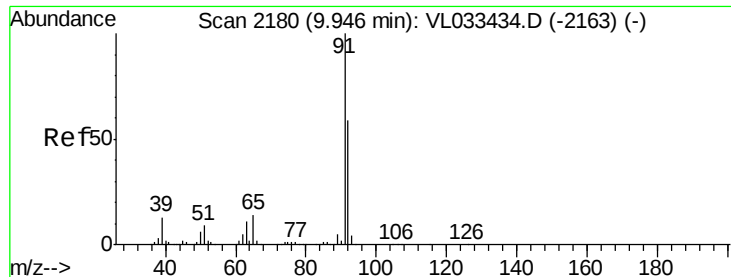
MMDadoda
4/8/2019 3:22:13 AM



#52
Tetrachloroethene
Concen: 8.635 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion: 164 Resp: 736662
Ion Ratio Lower Upper
164 100
166 122.5 99.5 149.3
129 102.7 81.4 122.2
131 100.8 75.6 113.4





#53

Toluene

Concen: 8.600 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 91 Resp: 2259520

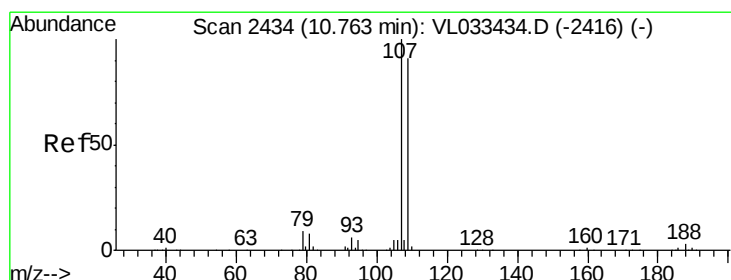
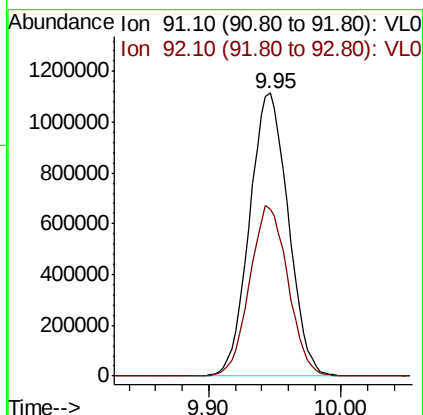
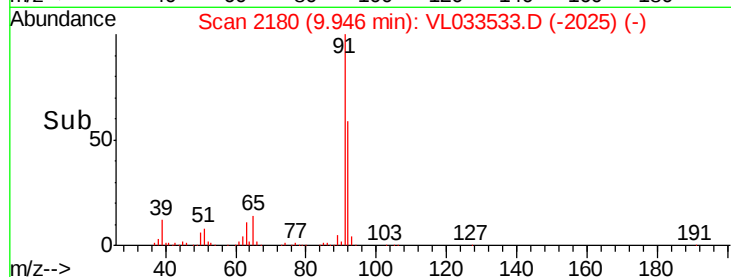
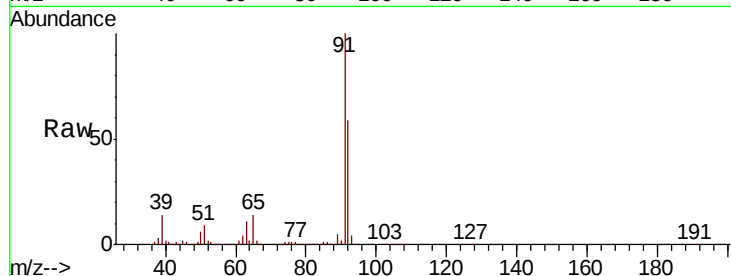
Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0

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4/8/2019 3:22:13 AM



#54

1,2-Dibromoethane

Concen: 8.231 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033533.D

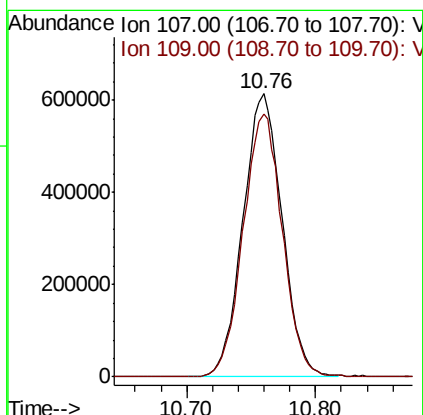
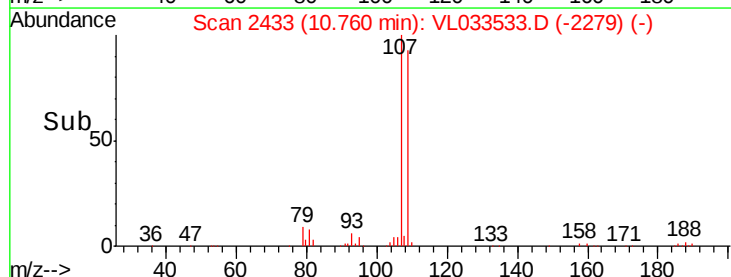
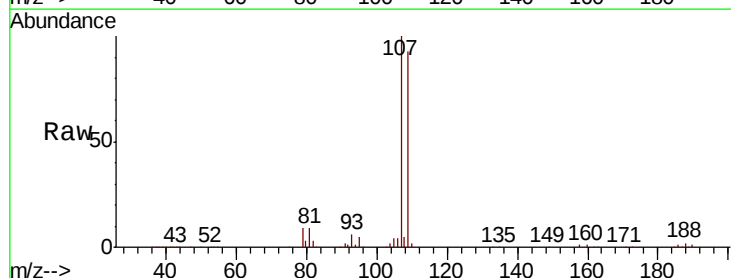
Acq: 4 Apr 2019 14:48

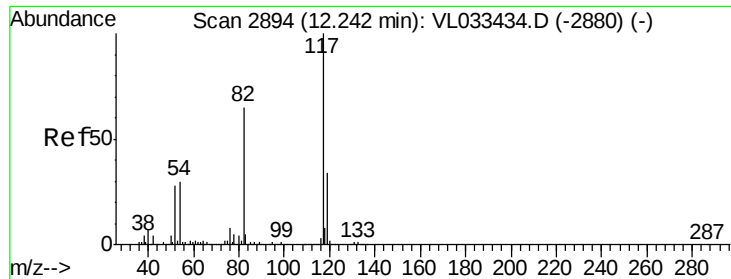
Tgt Ion: 107 Resp: 1294766

Ion Ratio Lower Upper

107 100

109 92.8 72.7 109.1





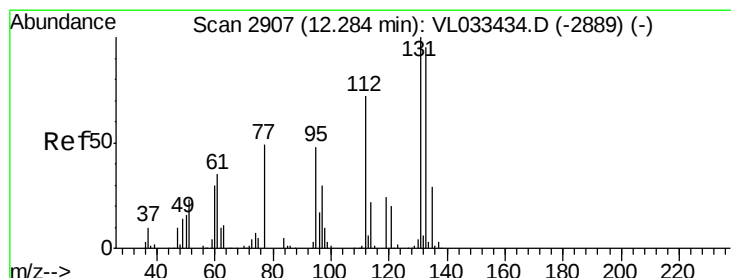
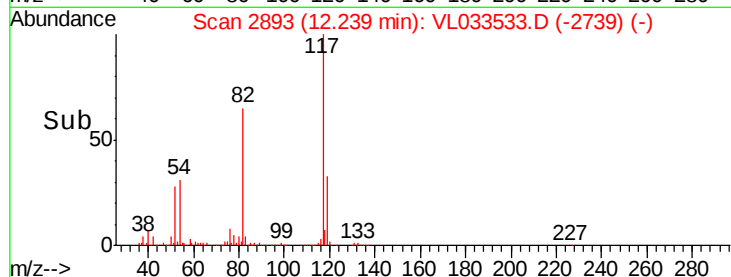
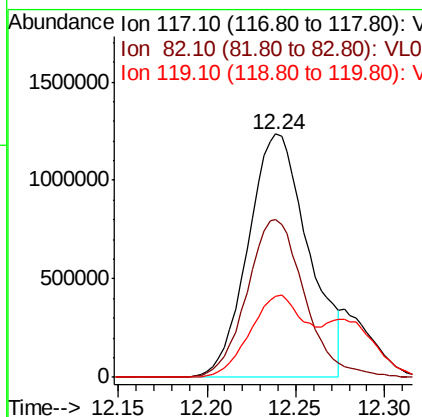
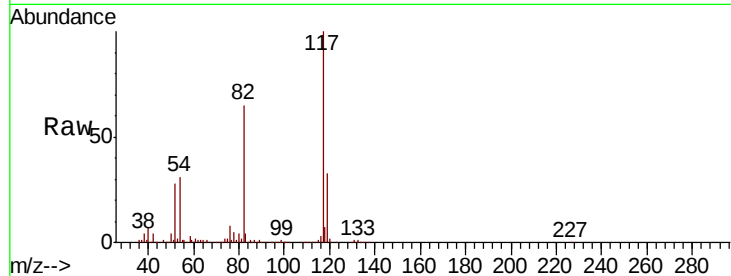
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.1	51.5	77.3
119	51.5	25.5	38.3#

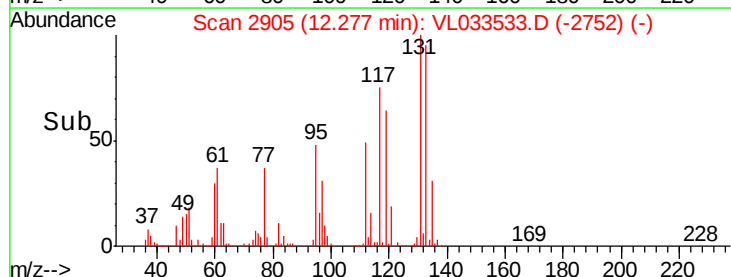
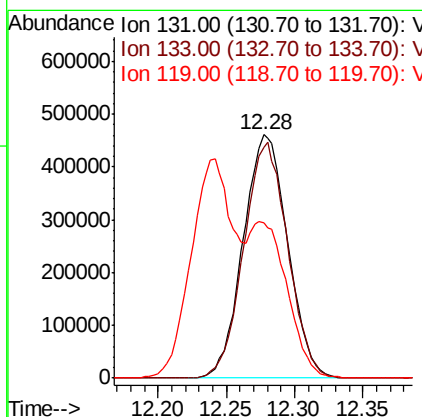
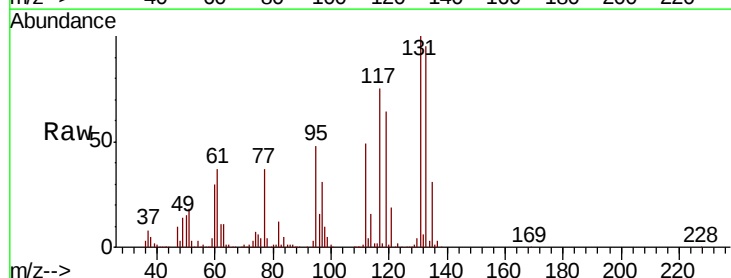
Manual Integrations
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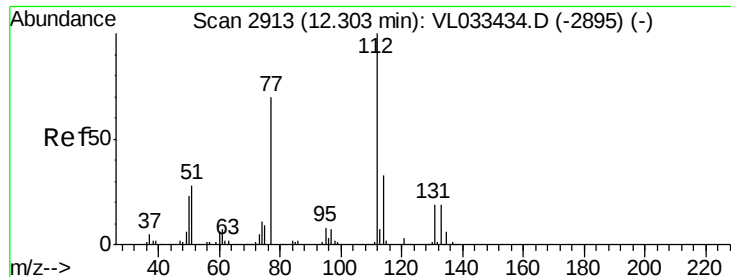
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 7.792 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.2	114.4
119	144.5	45.0	67.6#





#57

Chlorobenzene

Concen: 7.717 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:112 Resp: 1753274

Ion Ratio Lower Upper

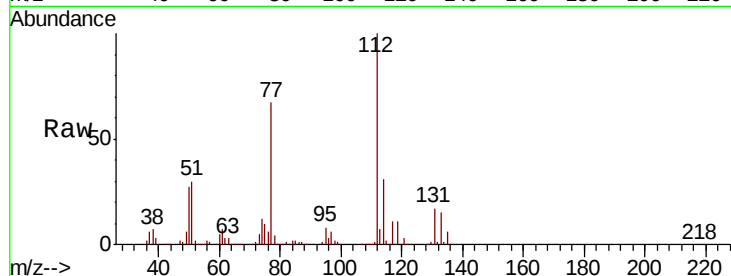
112 100

77 66.8 57.3 85.9

114 31.4 29.8 36.4

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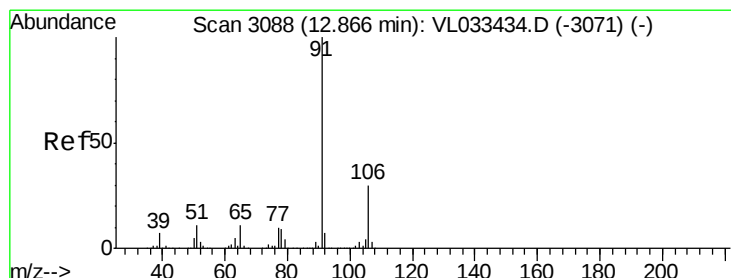
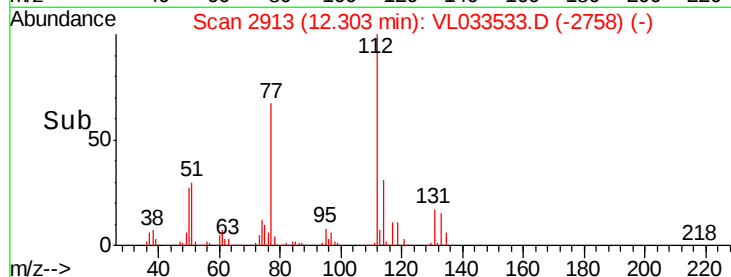
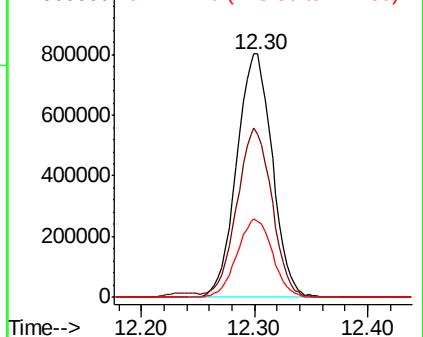
MMDadoda
4/8/2019 3:22:13 AM



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: 8.220 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033533.D

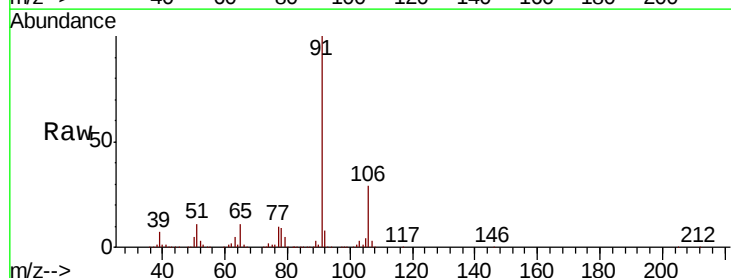
Acq: 4 Apr 2019 14:48

Tgt Ion: 91 Resp: 3211780

Ion Ratio Lower Upper

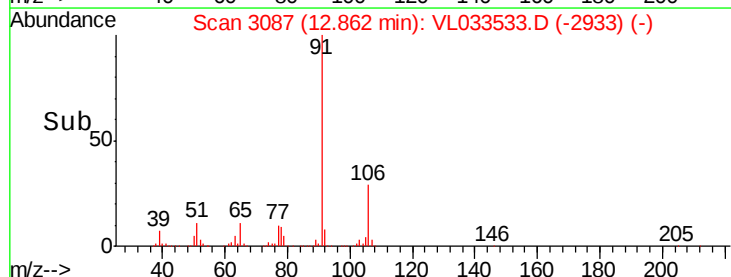
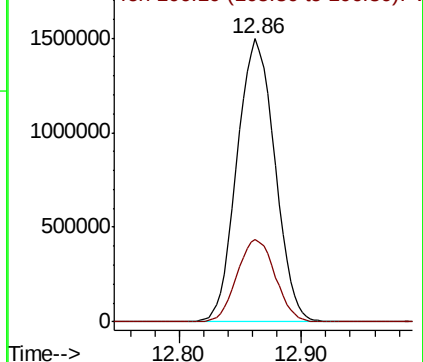
91 100

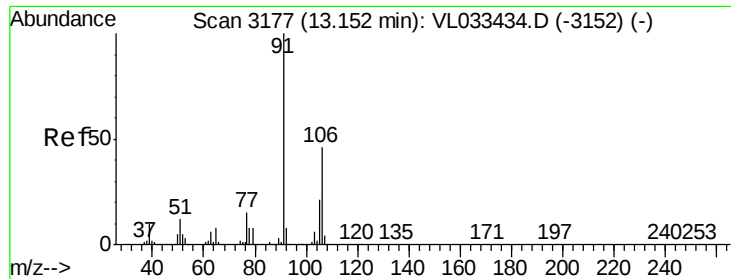
106 29.0 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 15.753 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. -0.01 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 91 Resp: 5497988

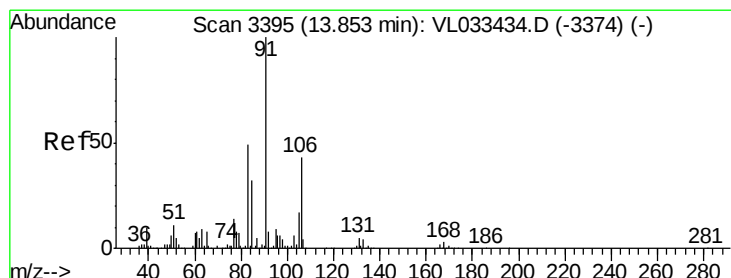
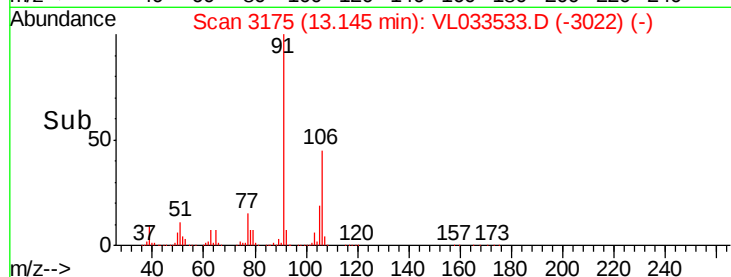
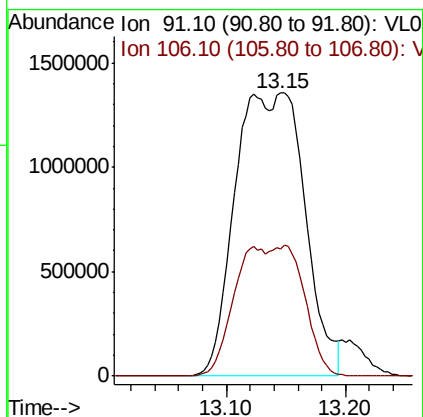
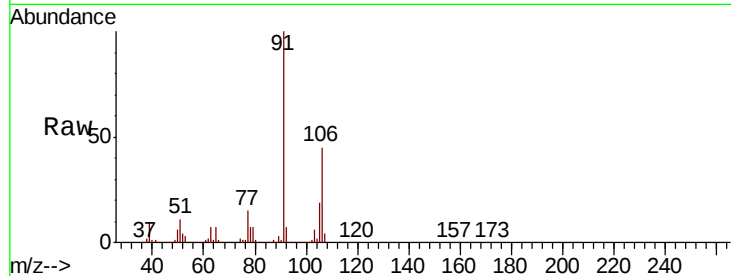
Ion Ratio Lower Upper

91 100

106 45.0 0.0 0.0#

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#60

o-Xylene

Concen: 8.067 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL033533.D

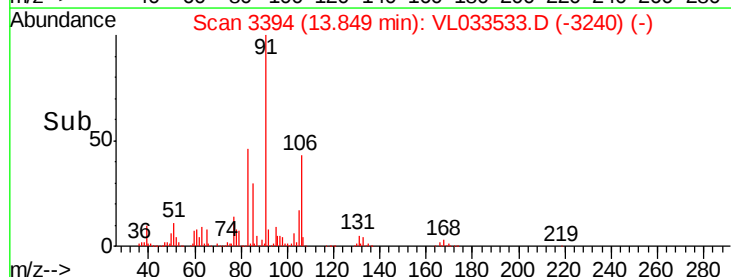
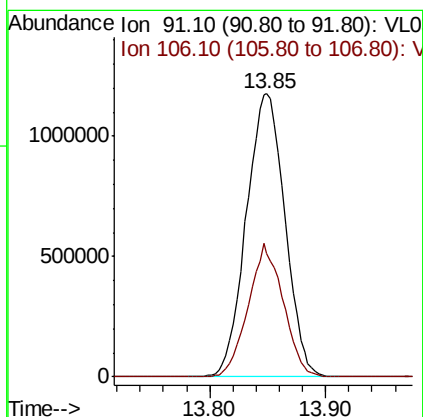
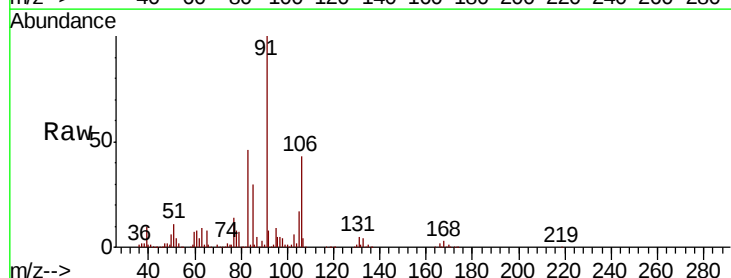
Acq: 4 Apr 2019 14:48

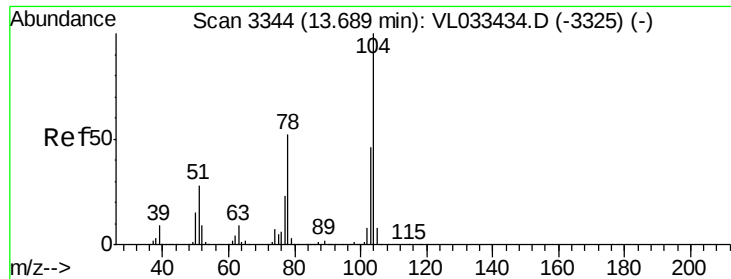
Tgt Ion: 91 Resp: 2722764

Ion Ratio Lower Upper

91 100

106 42.8 21.4 64.3





#61

Stvrene

Concen: 8.660 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:104 Resp: 2005904

Ion Ratio Lower Upper

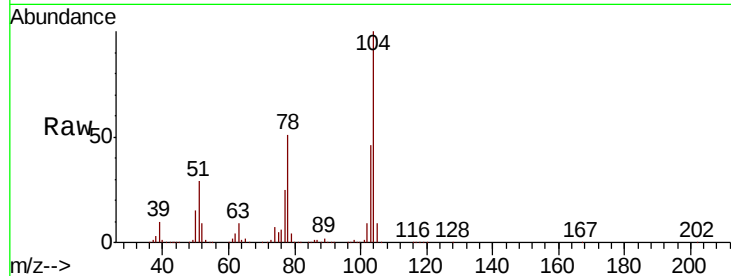
104 100

78 52.9 43.2 64.8

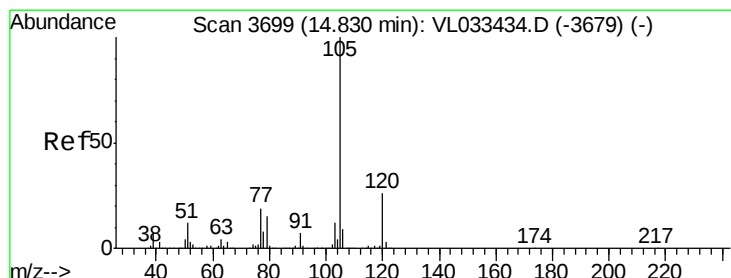
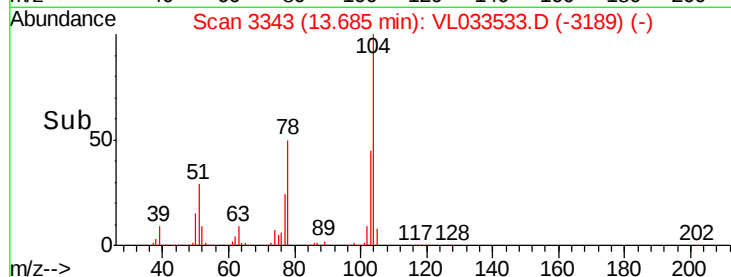
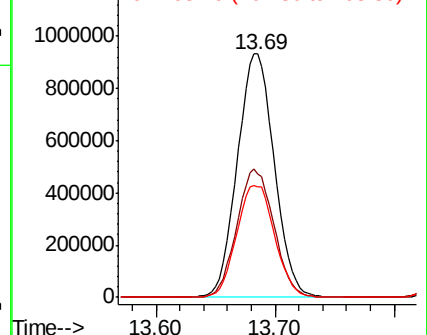
103 47.4 37.8 56.8

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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: 7.848 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033533.D

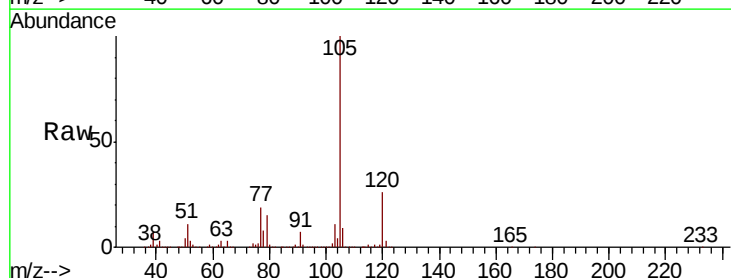
Acq: 4 Apr 2019 14:48

Tgt Ion:105 Resp: 3750912

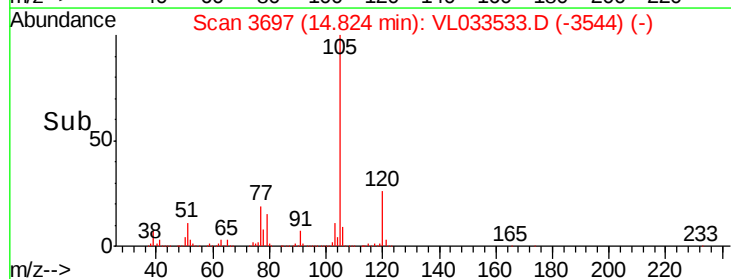
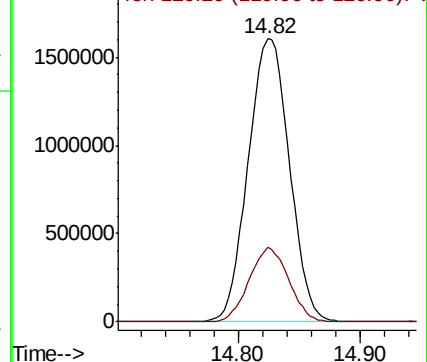
Ion Ratio Lower Upper

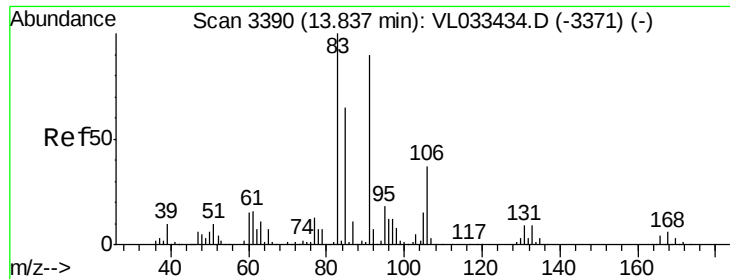
105 100

120 25.2 20.2 30.2



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





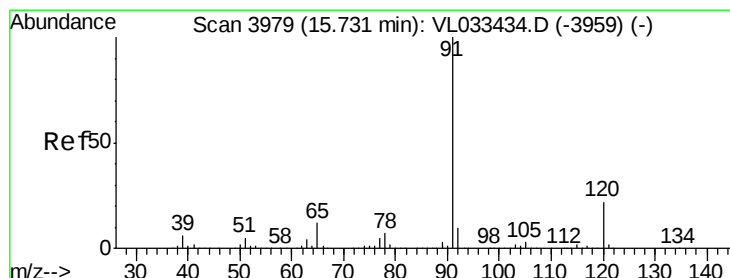
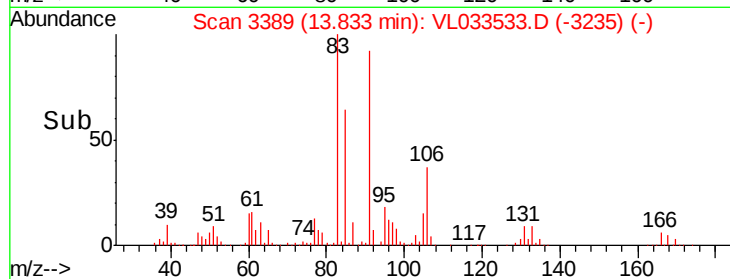
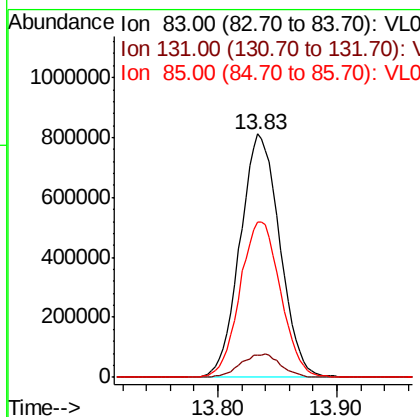
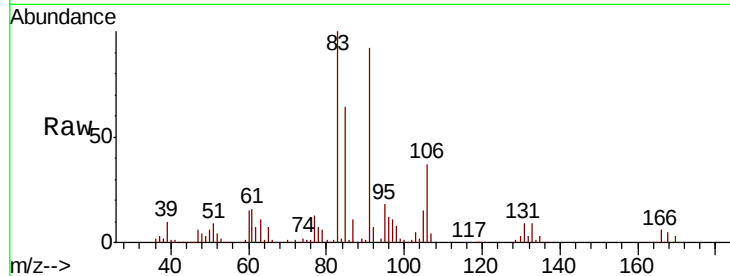
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.541 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion	83	Resp	1874124
Ion Ratio	100	Lower	Upper
83	100		
131	9.7	4.7	14.0
85	65.4	32.7	98.1

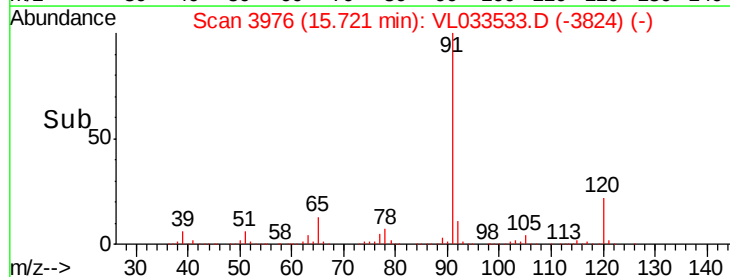
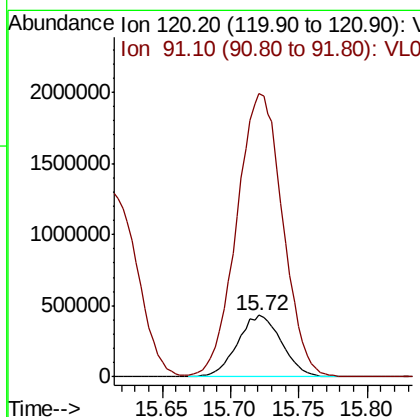
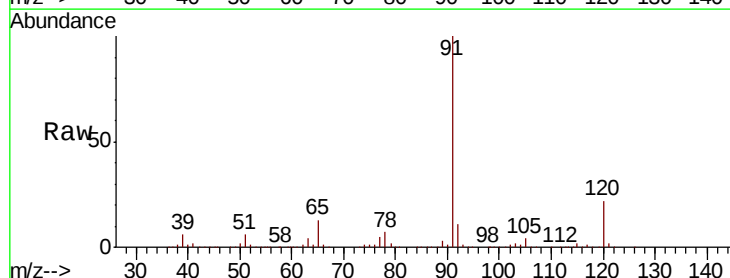
Manual Integrations
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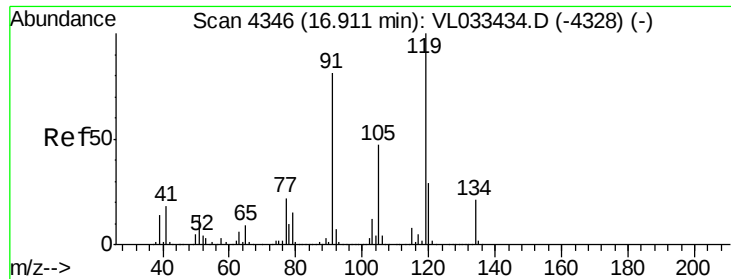
MMDadoda
 4/8/2019 3:22:13 AM



#64
 n-propylbenzene
 Concen: 8.055 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion	120	Resp	976887
Ion Ratio	100	Lower	Upper
120	100		
91	477.7	387.4	581.2





#65

tert-Butylbenzene

Concen: 8.129 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:119 Resp: 3423528

Ion Ratio Lower Upper

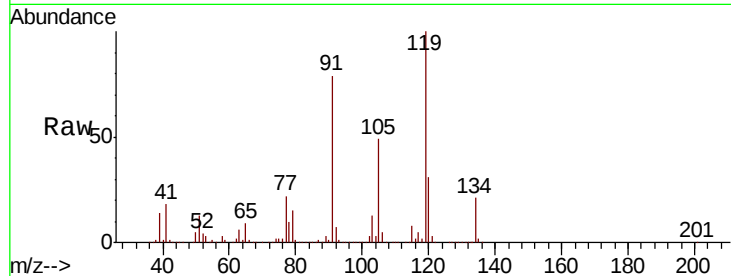
119 100

91 82.2 66.4 99.6

134 19.6 15.5 23.3

Manual Integrations
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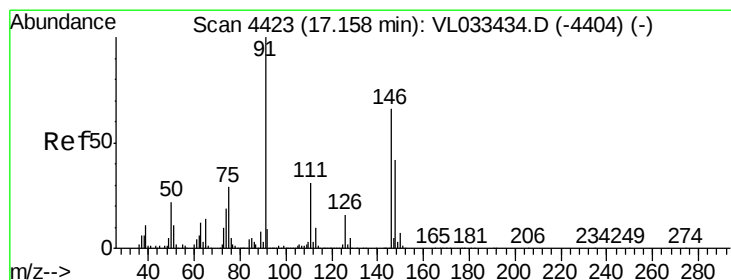
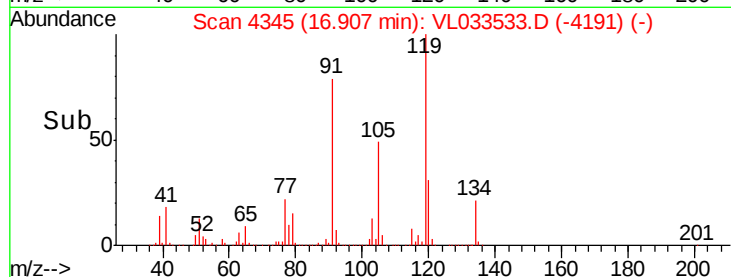
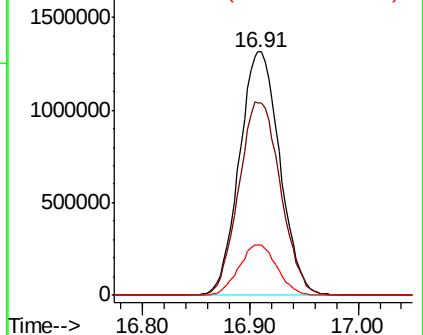
MMDadoda
4/8/2019 3:22:13 AM



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: 10.034 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

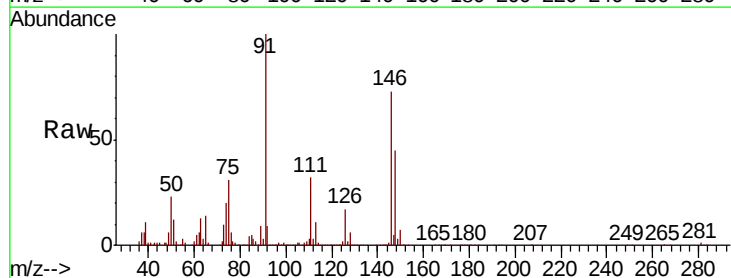
Tgt Ion: 91 Resp: 1964967

Ion Ratio Lower Upper

91 100

126 16.6 13.0 19.6

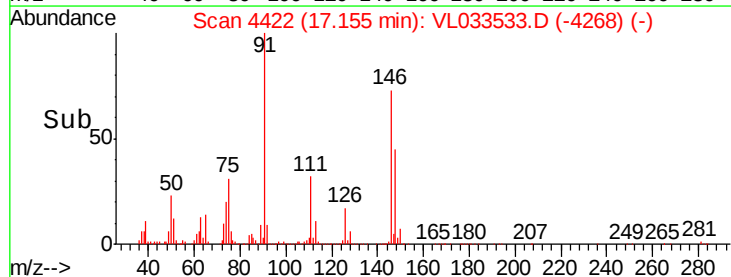
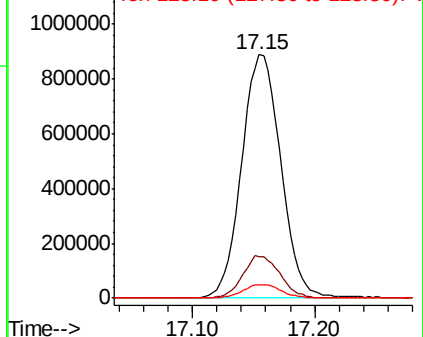
128 5.4 4.2 6.2

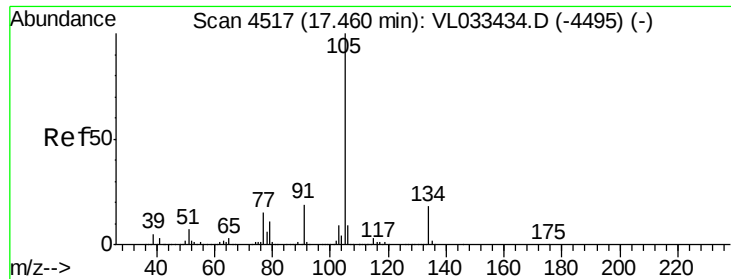


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.062 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 105 Resp: 4828419

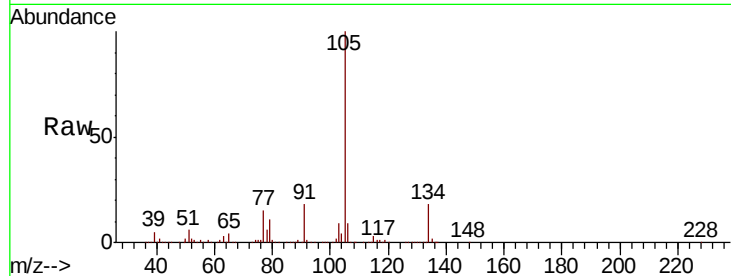
Ion Ratio Lower Upper

105 100

134 18.0 14.6 21.8

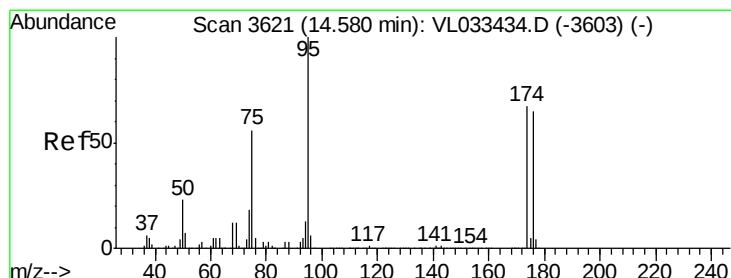
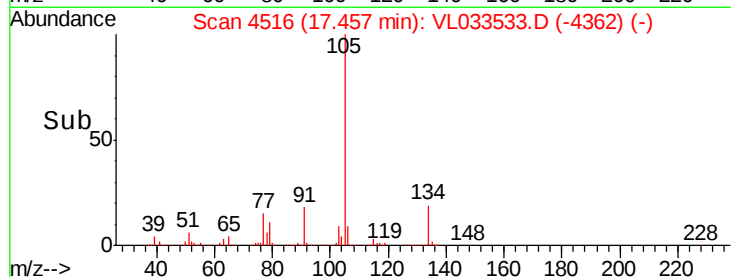
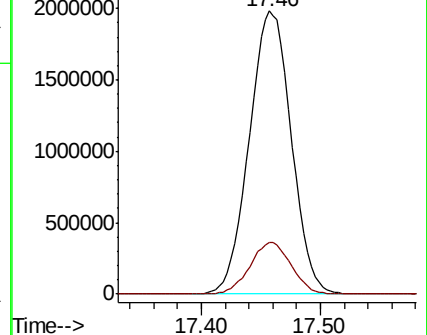
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4/8/2019 3:22:13 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.659 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

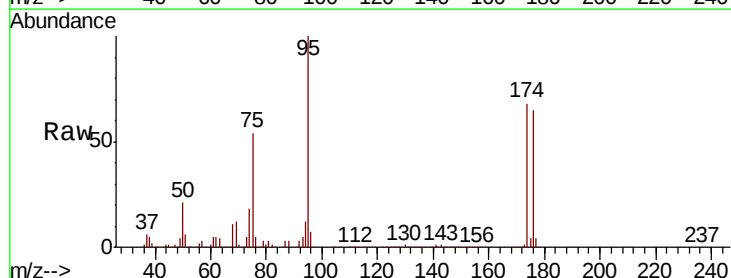
Tgt Ion: 95 Resp: 2215697

Ion Ratio Lower Upper

95 100

174 67.4 52.9 79.3

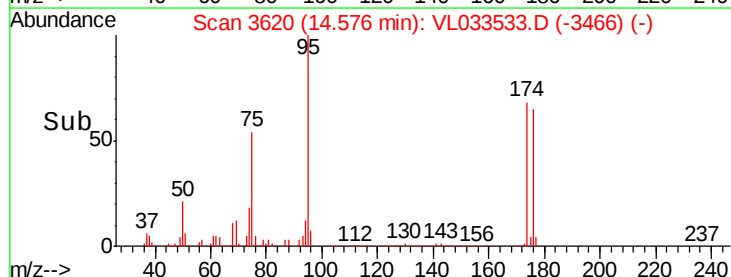
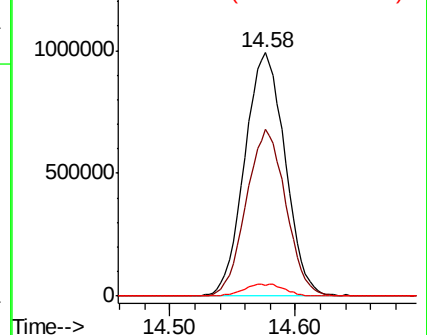
175 4.9 3.8 5.6

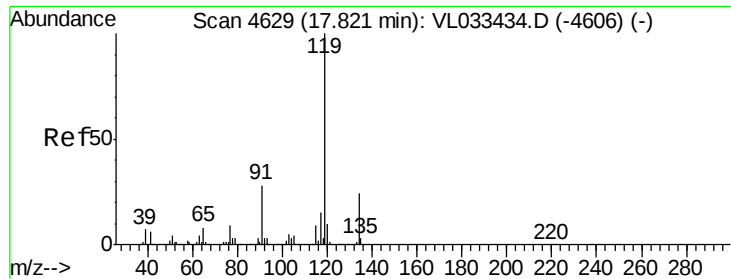


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





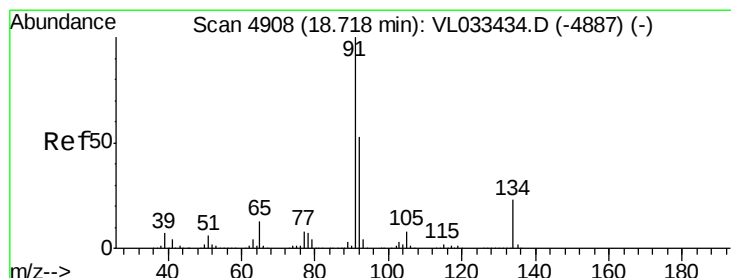
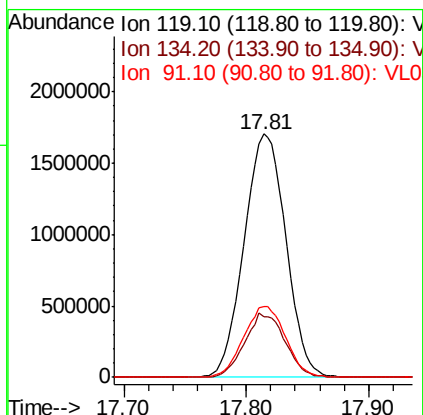
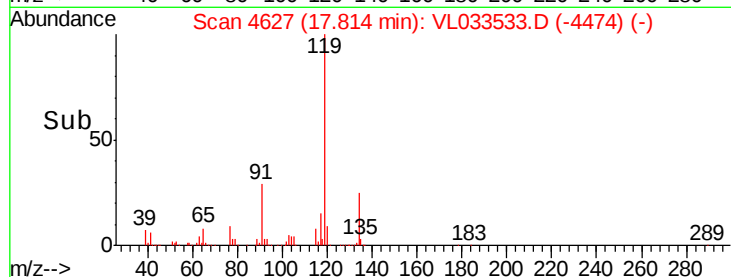
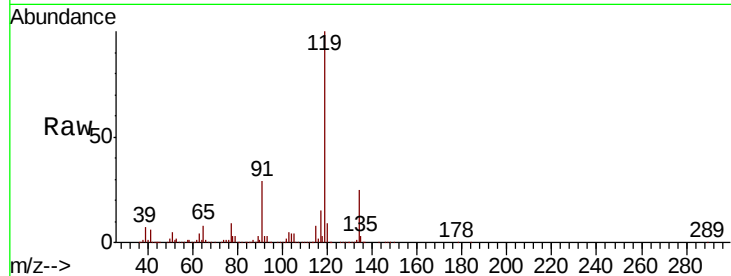
#69
p-Isopropyltoluene
Concen: 8.273 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.01 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	19.9	29.9
91	29.2	23.4	35.0

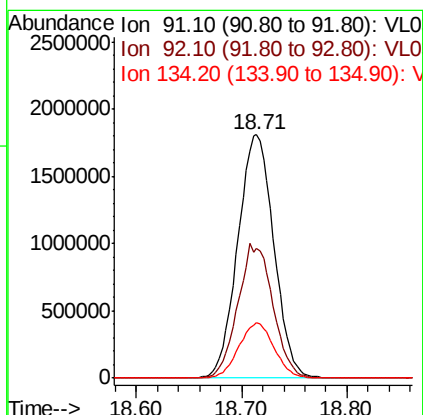
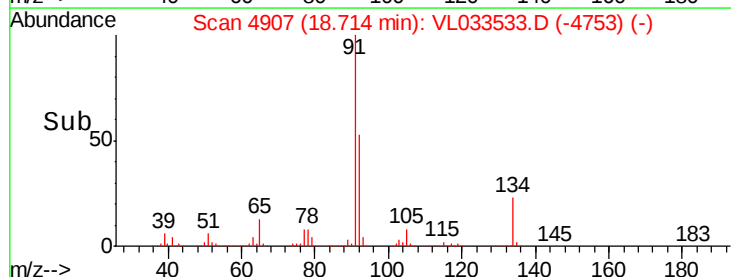
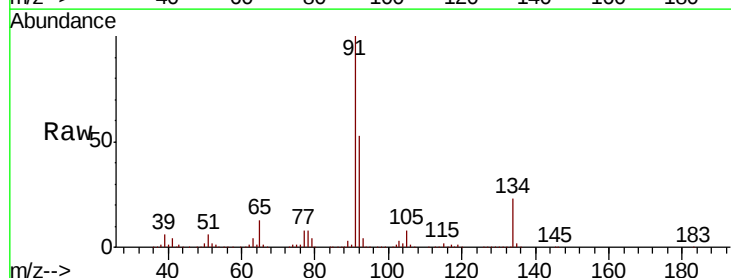
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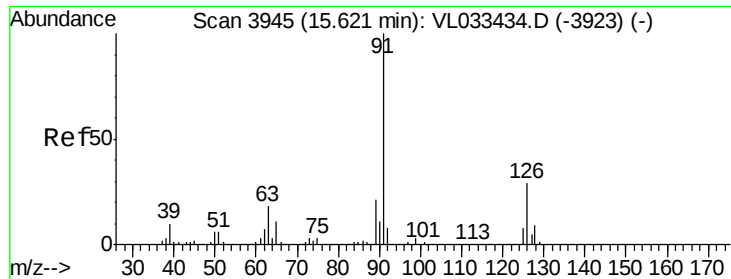
MMDadoda
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#70
n-Butylbenzene
Concen: 8.292 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.6	64.0
134	22.3	17.5	26.3





#71

2-Chlorotoluene

Concen: 7.970 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.01 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion: 91 Resp: 2896479

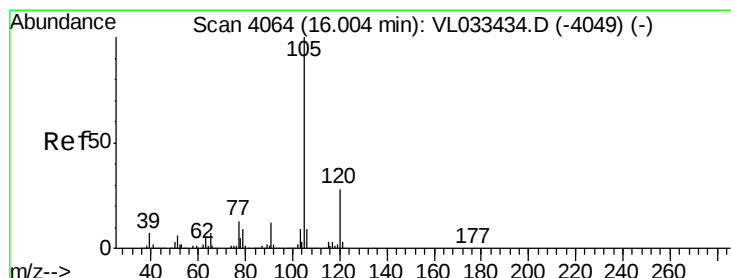
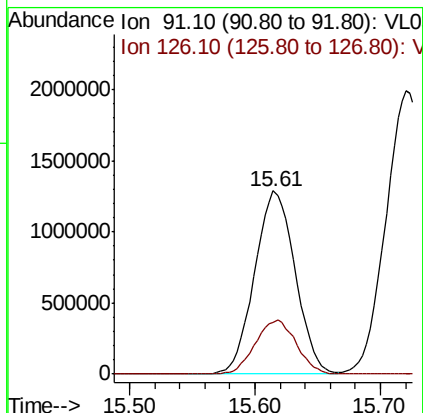
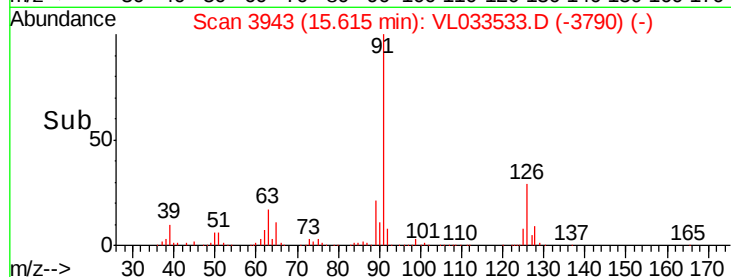
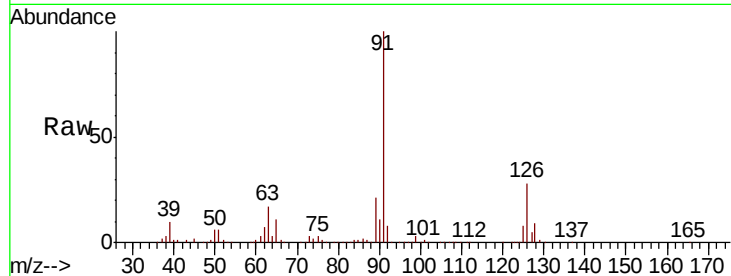
Ion Ratio Lower Upper

91 100

126 29.9 11.7 46.9

Manual Integrations
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#72

4-Ethyltoluene

Concen: 8.241 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Tgt Ion:105 Resp: 3126495

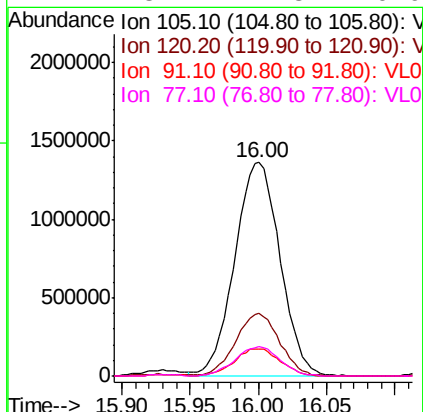
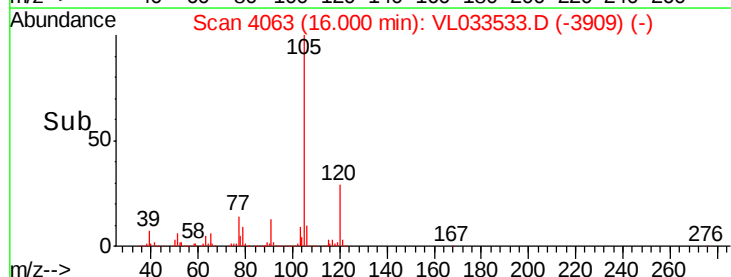
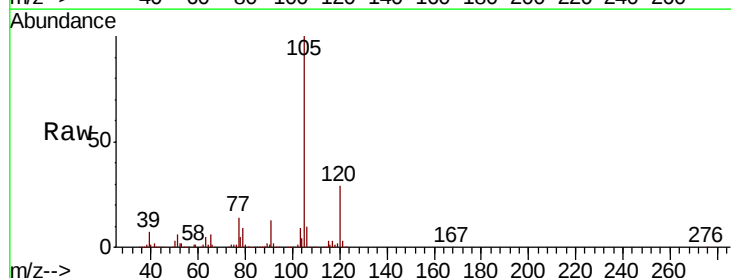
Ion Ratio Lower Upper

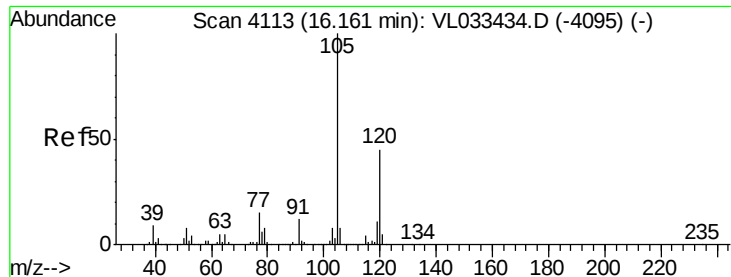
105 100

120 28.7 23.2 34.8

91 12.8 10.4 15.6

77 13.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 8.287 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:105 Resp: 3008698

Ion Ratio Lower Upper

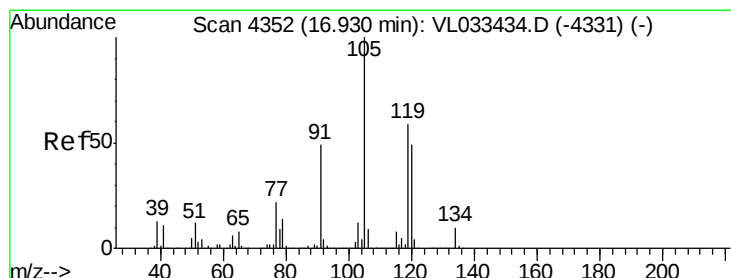
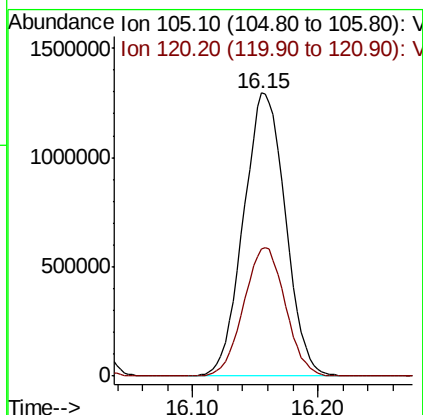
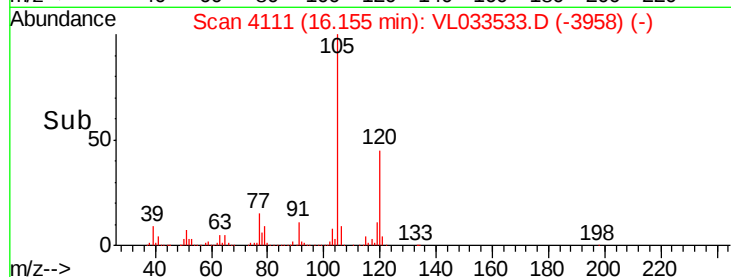
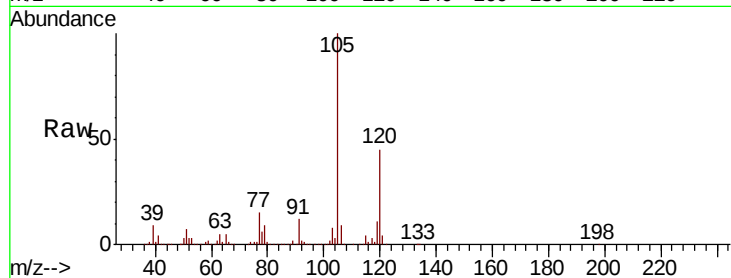
105 100

120 45.0

35.7 53.5

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 8.113 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Tgt Ion:105 Resp: 3156986

Ion Ratio Lower Upper

105 100

120 46.2

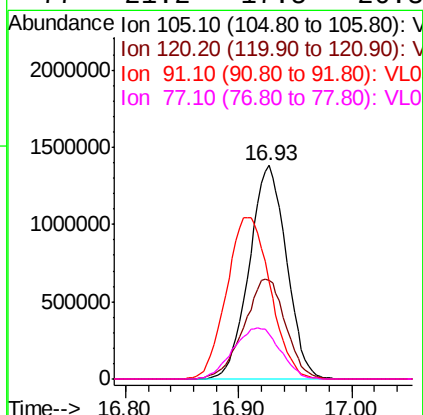
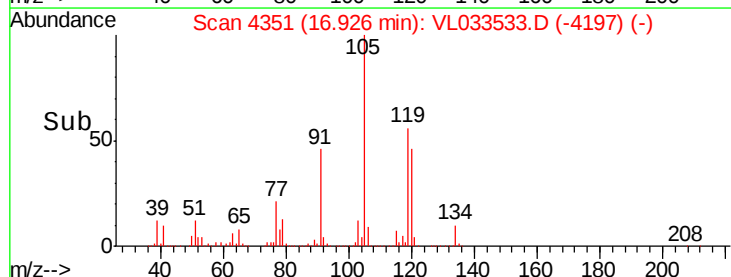
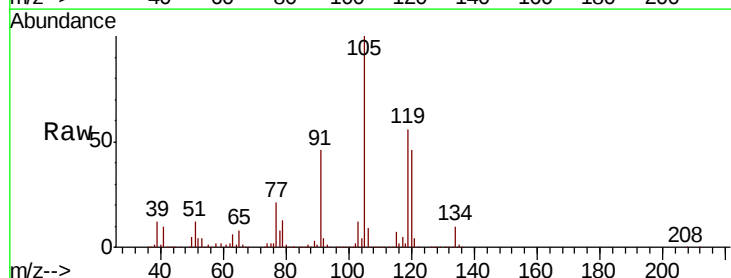
39.0 58.6

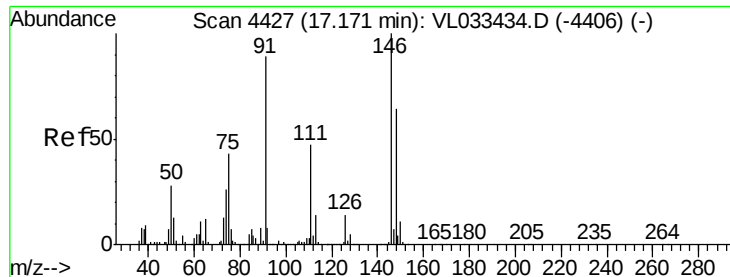
91 45.5

40.0 60.0

77 21.2

17.5 26.3





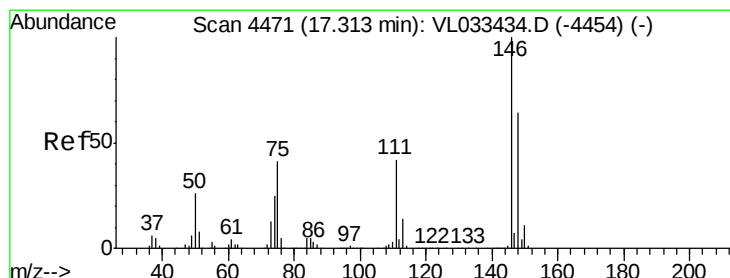
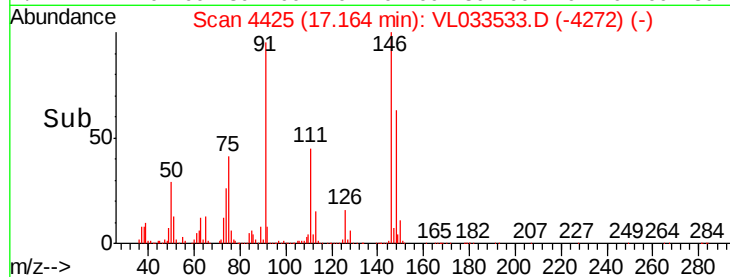
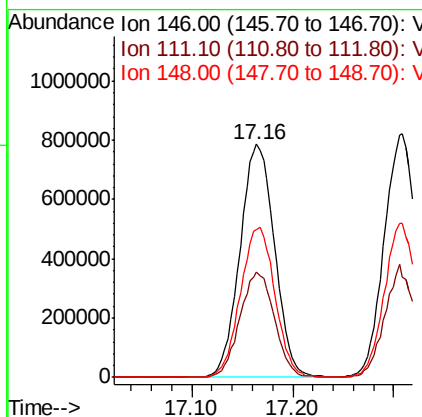
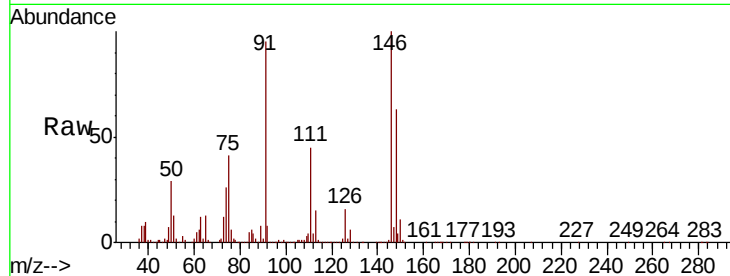
#75
 1,3-Dichlorobenzene
 Concen: 7.775 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion:146 Resp: 1870044
 Ion Ratio Lower Upper
 146 100
 111 45.1 22.9 68.8
 148 64.1 32.0 96.2

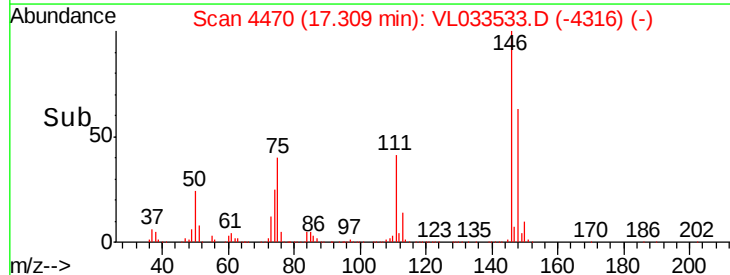
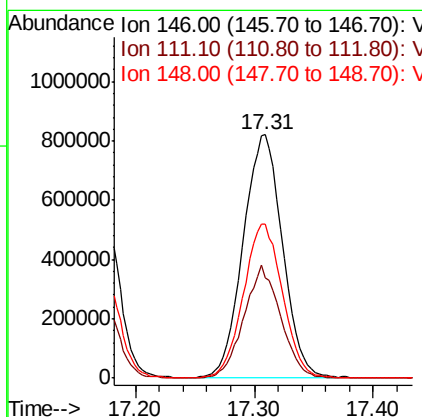
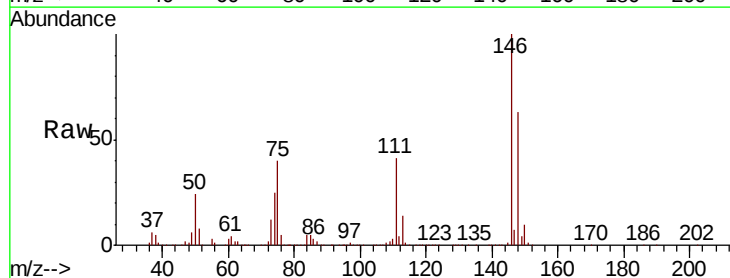
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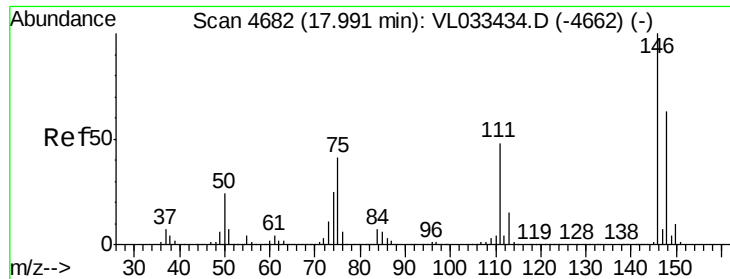
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 4/8/2019 3:22:13 AM



#76
 1,4-Dichlorobenzene
 Concen: 7.968 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Tgt Ion:146 Resp: 1867256
 Ion Ratio Lower Upper
 146 100
 111 43.5 21.7 65.1
 148 63.7 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 8.042 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABS01

Tot Ion:146 Resp: 1835131

Ion Ratio Lower Upper

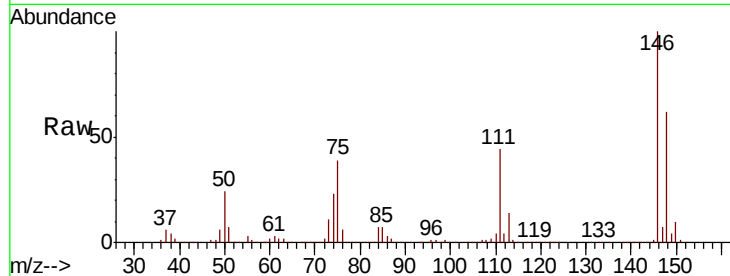
146 100

111 46.2 23.5 70.5

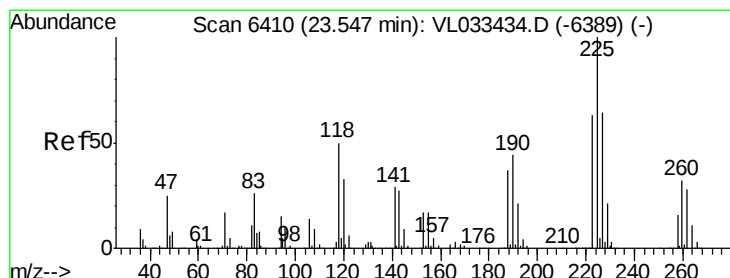
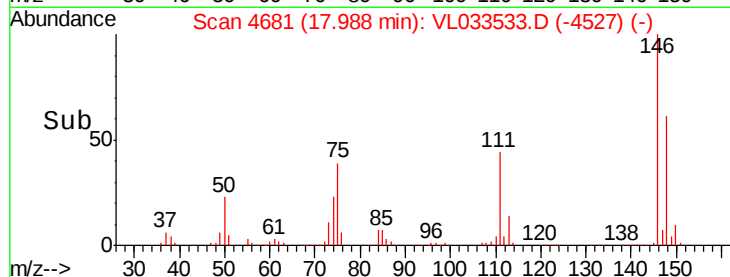
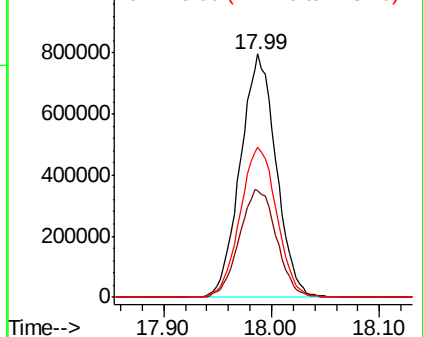
148 63.6 32.0 96.0

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



#78

Hexachloro-1,3-Butadiene

Concen: 9.261 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033533.D

Acq: 4 Apr 2019 14:48

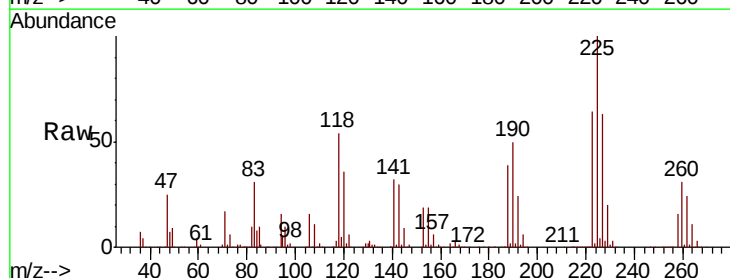
Tgt Ion:225 Resp: 1398860

Ion Ratio Lower Upper

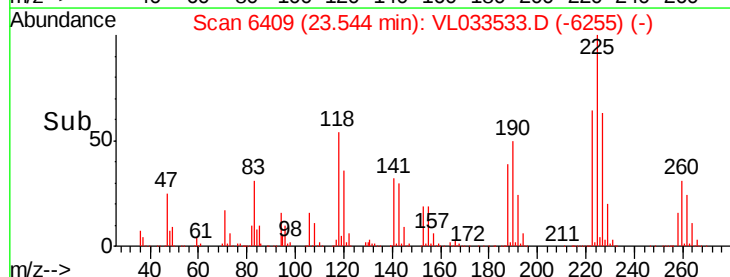
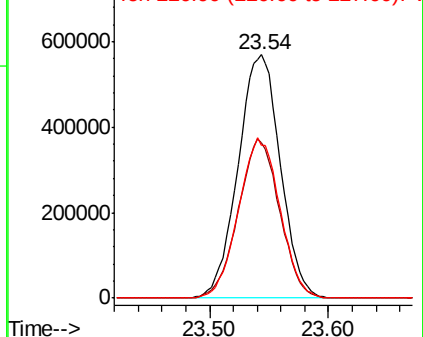
225 100

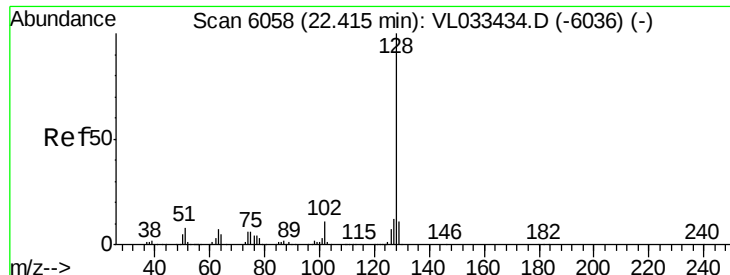
223 63.7 50.0 75.0

227 64.6 51.1 76.7



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





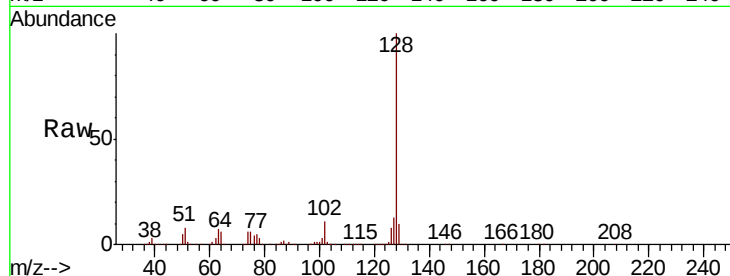
#79
Naphthalene
Concen: 9.163 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. -0.01 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.8	14.8
129	10.5	8.6	12.8

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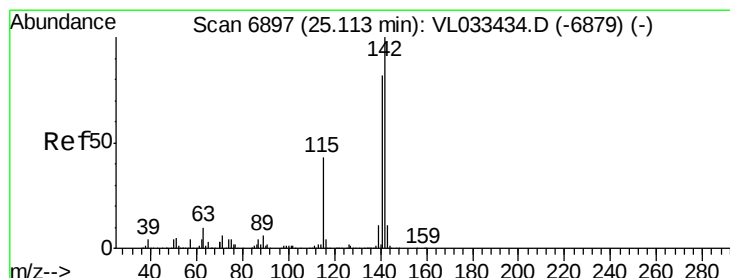
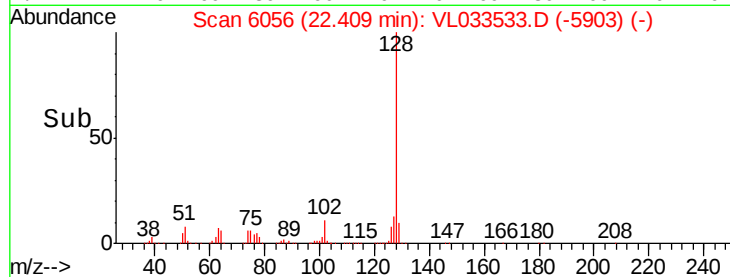
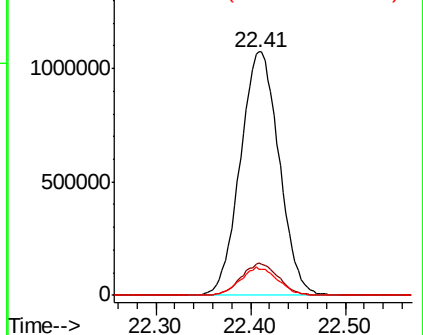


Abundance

Ion 128.10 (127.80 to 128.80): V

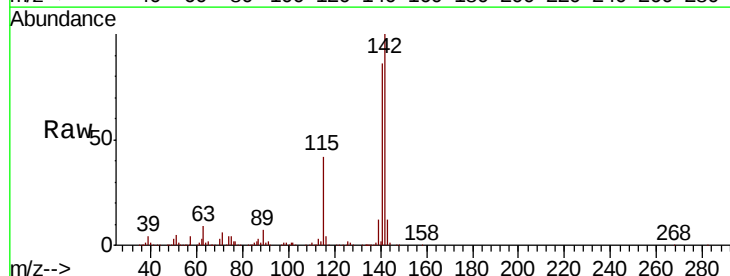
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 11.087 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.00 min
Lab File: VL033533.D
Acq: 4 Apr 2019 14:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.9	66.6	99.8
115	41.7	34.4	51.6

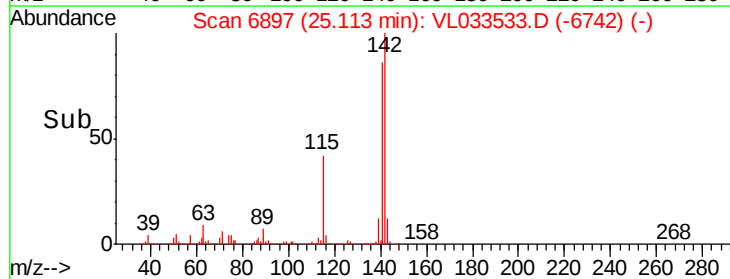
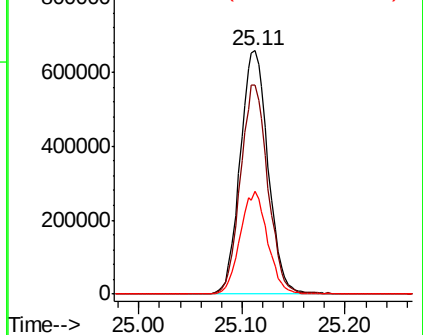


Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.576 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033533.D
 Acq: 4 Apr 2019 14:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.0	115.4
184	30.7	24.6	36.8

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