

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033706.D
 Acq On : 17 May 2019 5:53
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:25 PM

Quant Time: May 17 08:04:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	906328	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2627268	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2918888	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2268330	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2803027	13.530	ppbv	99
3) Chlorodifluoromethane	3.01	51	1522364	11.707	ppbv	98
4) Chloromethane	3.17	50	857141	12.670	ppbv	98
5) Vinyl Chloride	3.29	62	873188	13.254	ppbv	98
6) Bromomethane	3.51	94	550859	13.135	ppbv	99
7) Chloroethane	3.60	64	321605	13.417	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	2228553	12.841	ppbv	100
9) Propene	3.04	41	674798	13.556	ppbv	98
10) Heptane	8.25	43	2192447	17.773	ppbv	100
11) Trichlorofluoromethane	4.00	101	2632367	13.199	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1791396	13.318	ppbv	100
13) Ethanol	3.65	45	157880	10.414	ppbv	100
14) Bromoethene	3.79	108	705803	13.595	ppbv	100
15) Acetone	3.90	43	1673105	12.330	ppbv	99
16) 1,3-Butadiene	3.36	39	796053	13.980	ppbv	99
17) tert-Butyl alcohol	4.36	59	1367878	13.102	ppbv	100
18) 1,1-Dichloroethene	4.35	96	782236	13.504	ppbv	94
19) Isopropyl Alcohol	4.03	45	1086363	12.823	ppbv	100
20) Methylene Chloride	4.41	84	657391	12.814	ppbv	98
21) Allyl Chloride	4.48	41	1177889	14.291	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	811561	14.126	ppbv	96
23) Vinyl Acetate	5.16	43	2530413	14.466	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1746940	13.221	ppbv	99
25) Ethyl Acetate	5.77	43	3101243	14.033	ppbv	99
26) Hexane	5.78	57	1369431	14.410	ppbv	100
27) Carbon Disulfide	4.62	76	2010057	15.407	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2241512	14.121	ppbv	100
29) Chloroform	5.85	83	2794942	16.395	ppbv	98
30) Cyclohexane	7.25	84	1444335	18.204	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1433376	15.345	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2900501	16.533	ppbv	100
34) 2-Butanone	5.33	43	2003366	11.884	ppbv	100
35) Carbon Tetrachloride	7.14	117	3141673	14.532	ppbv	99
36) Benzene	7.01	78	3485976	14.685	ppbv	99
37) 1,2-Dichloroethane	6.42	62	2180055	13.174	ppbv	100
38) Trichloroethene	7.96	130	1402689	16.195	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1300829	14.702	ppbv	96
40) 1,4-Dioxane	7.96	88	525288	14.672	ppbv #	99
41) Tetrahydrofuran	6.15	42	1397221	15.836	ppbv	99
42) Bromodichloromethane	7.92	83	3135468	14.743	ppbv	96
43) Methyl Methacrylate	8.14	69	1416704	15.903	ppbv	99

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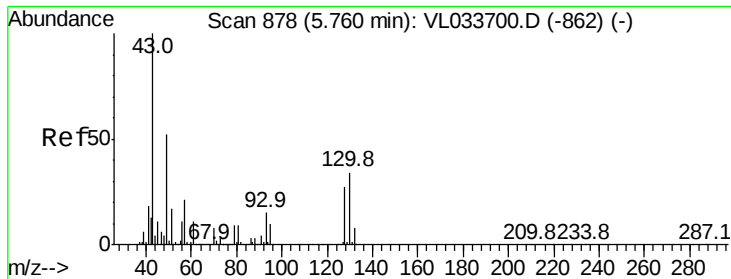
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Quant Time: May 17 08:04:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5811171	14.339	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1973982	17.938	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2190967	16.017	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1484785	14.613	ppbv	97
48) Dibromochloromethane	10.45	129	2779248	16.094	ppbv	99
49) Bromoform	13.21	173	2494987	16.889	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	3783217	14.802	ppbv	99
51) 2-Hexanone	10.27	43	3185024	16.005	ppbv #	100
52) Tetrachloroethene	11.38	164	1340273	15.918	ppbv	98
53) Toluene	9.95	91	4154497	16.149	ppbv	100
54) 1,2-Dibromoethane	10.76	107	2389134	15.571	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1843642	13.582	ppbv #	76
57) Chlorobenzene	12.30	112	3202998	13.235	ppbv	99
58) Ethyl Benzene	12.87	91	5702412	14.834	ppbv	100
59) m/p-Xylene	13.15	91	9549231m	28.194	ppbv	
60) o-Xylene	13.85	91	4815774	14.088	ppbv	99
61) Styrene	13.69	104	3690204	16.172	ppbv	100
62) Isopropylbenzene	14.83	105	6560304	14.028	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	3356400	13.535	ppbv	100
64) n-propylbenzene	15.73	120	1739977	14.425	ppbv	96
65) tert-Butylbenzene	16.91	119	5904865	13.769	ppbv	100
66) Benzyl Chloride	17.16	91	3462694	17.638	ppbv	99
67) sec-Butylbenzene	17.46	105	8197568	13.731	ppbv	99
69) p-Isopropyltoluene	17.82	119	7001600	14.218	ppbv	100
70) n-Butylbenzene	18.71	91	7428221	14.275	ppbv	99
71) 2-Chlorotoluene	15.62	91	5020756	14.547	ppbv	99
72) 4-Ethyltoluene	16.00	105	5815207	14.487	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	5517335	14.234	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	5715024	13.226	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3386091	13.019	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	3419836	13.856	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	3275090	13.566	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	2255882	11.783	ppbv	99
79) Naphthalene	22.41	128	6036994	15.291	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	2633981	17.474	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	3248667	14.150	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

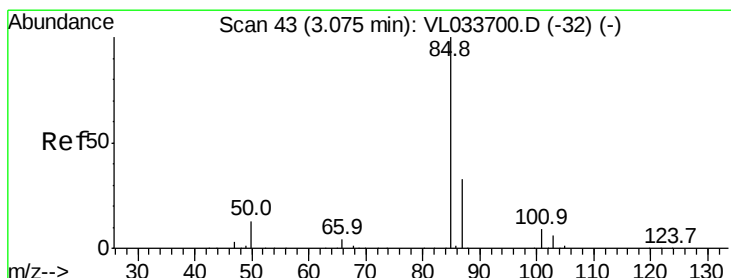
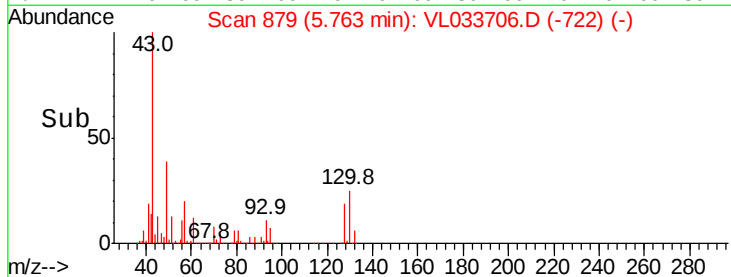
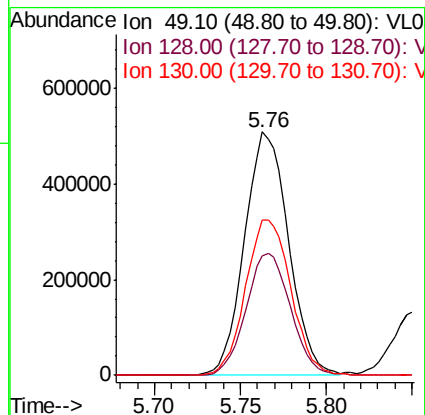
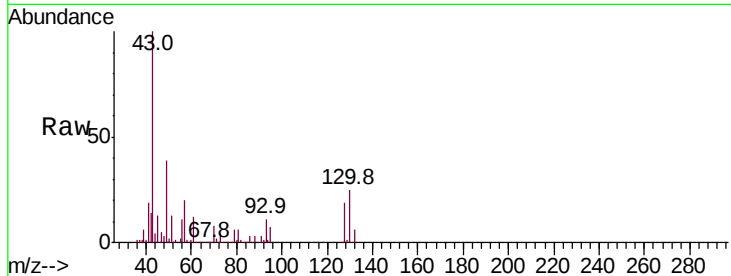
ClientSampleId :

VSTDIC015

Tot Ion:	49	Resp:	906328
Ion Ratio	Lower	Upper	
49	100		
128	50.9	25.2	75.6
130	66.0	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 13.530 ppbv

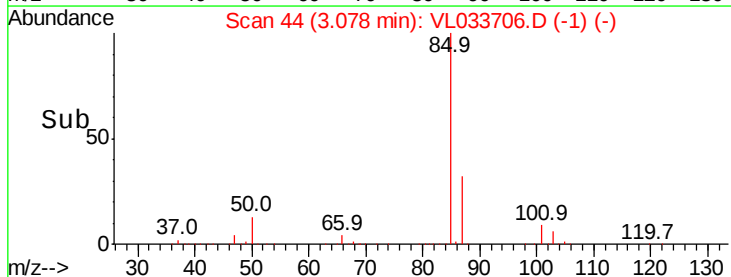
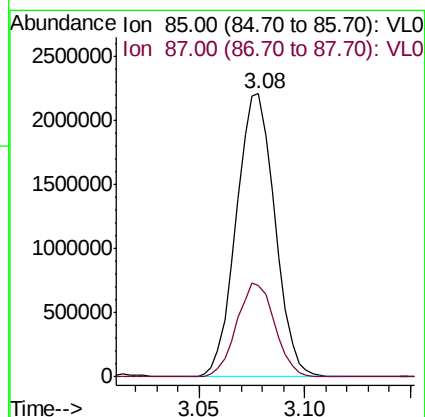
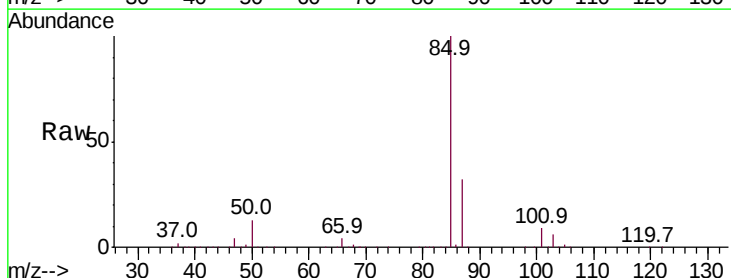
RT: 3.08 min Scan# 44

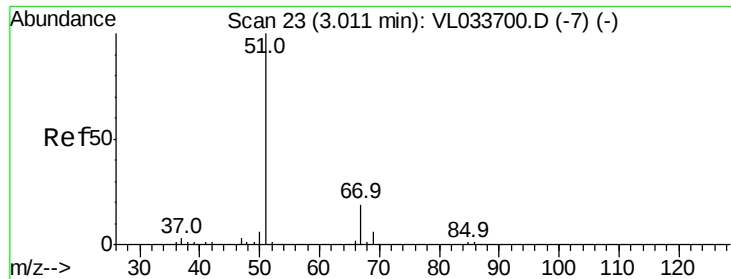
Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion:	85	Resp:	2803027
Ion Ratio	Lower	Upper	
85	100		
87	32.4	26.3	39.5





#3

Chlorodifluoromethane

Concen: 11.707 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tot Ion: 51 Resp: 1522364

Ion Ratio Lower Upper

51 100

67 20.2 15.6 23.4

Instrument :

MSVOA_L

ClientSampled :

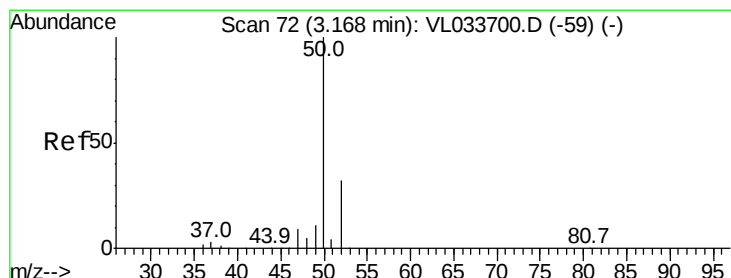
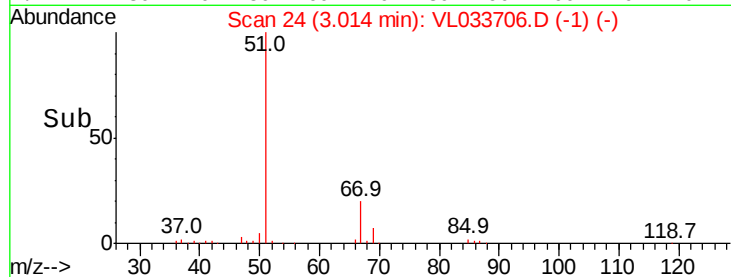
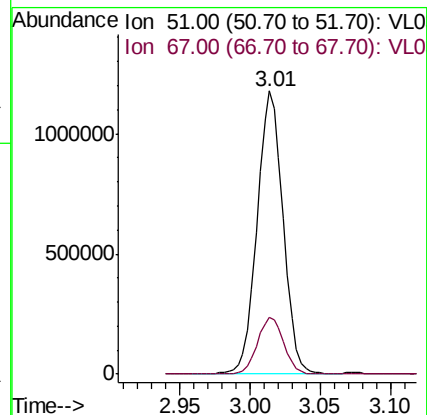
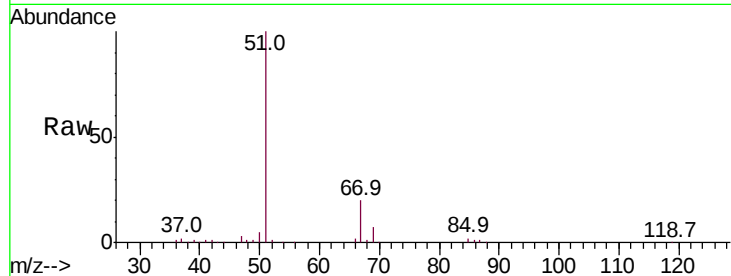
VSTDIC015

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#4

Chloromethane

Concen: 12.670 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033706.D

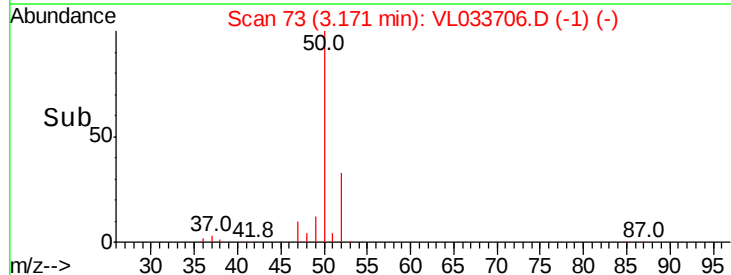
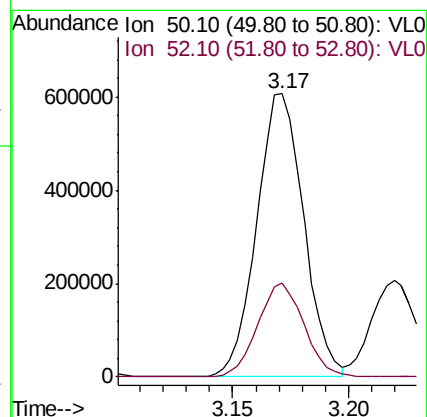
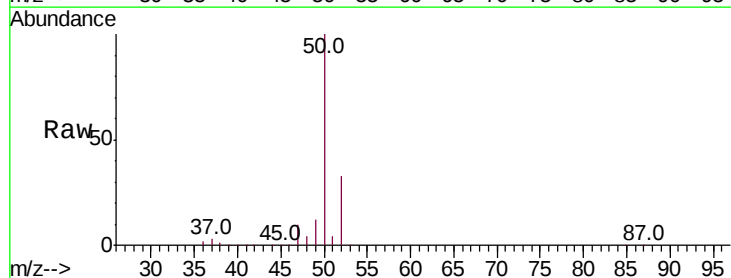
Acq: 17 May 2019 5:53

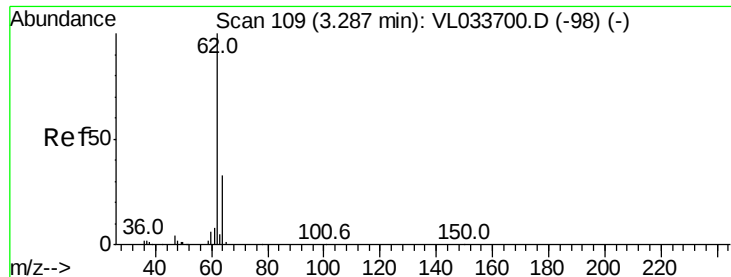
Tgt Ion: 50 Resp: 857141

Ion Ratio Lower Upper

50 100

52 33.3 25.7 38.5





#5

Vinyl Chloride

Concen: 13.254 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 873188

Ion Ratio Lower Upper

62 100

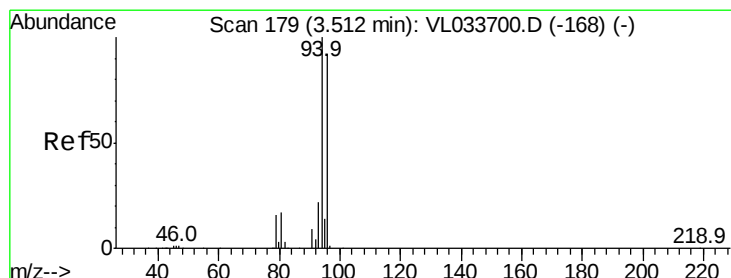
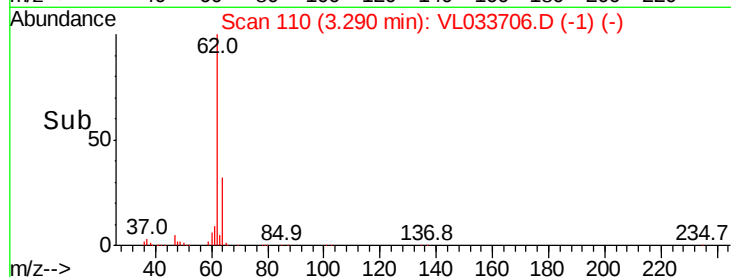
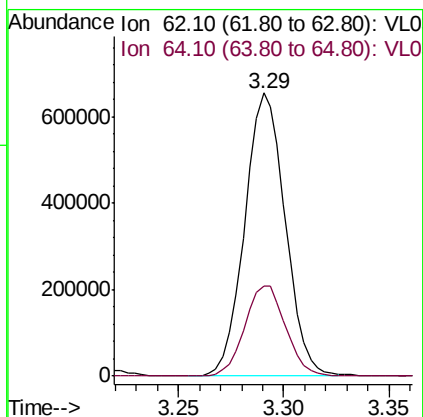
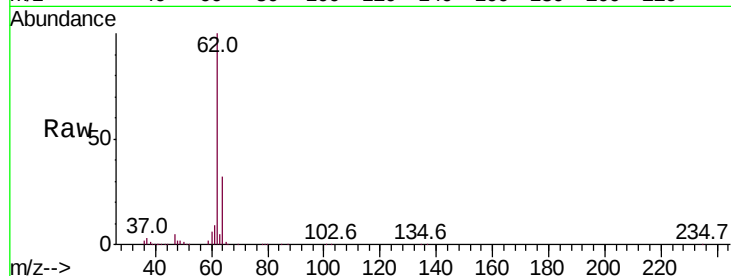
64 31.9 26.4 39.6

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#6

Bromomethane

Concen: 13.135 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033706.D

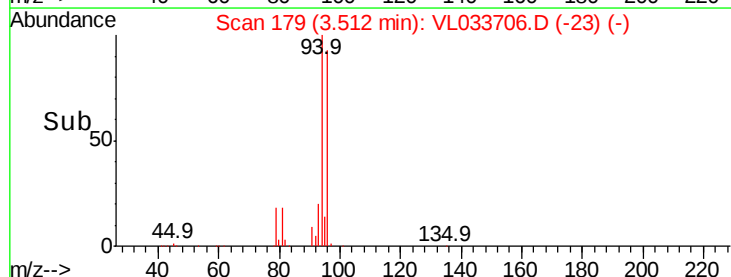
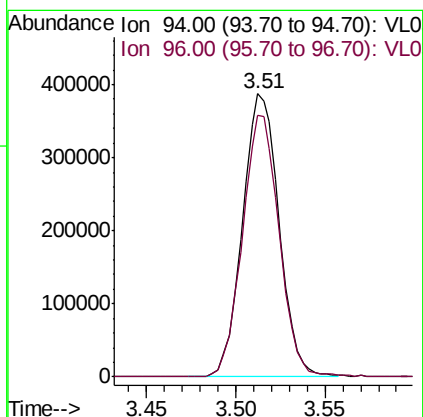
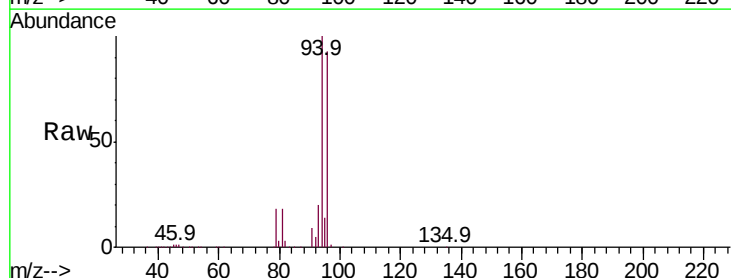
Acq: 17 May 2019 5:53

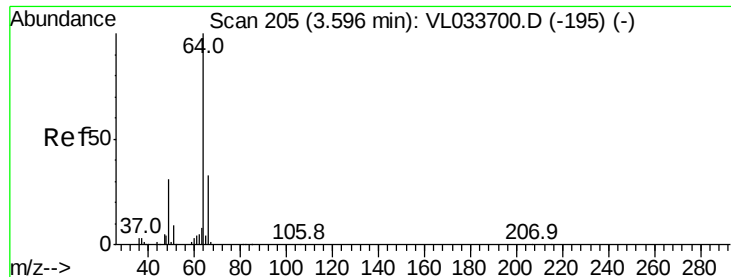
Tgt Ion: 94 Resp: 550859

Ion Ratio Lower Upper

94 100

96 92.5 73.6 110.4





#7

Chloroethane

Concen: 13.417 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 64 Resp: 321605

Ion Ratio Lower Upper

64 100

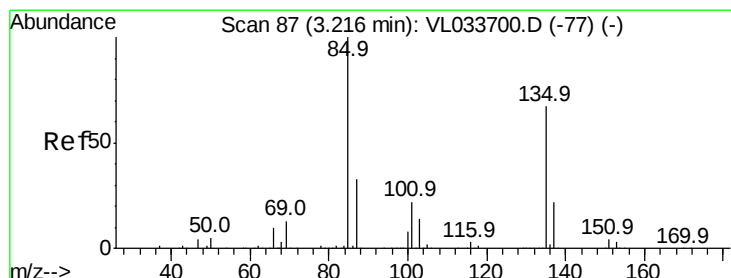
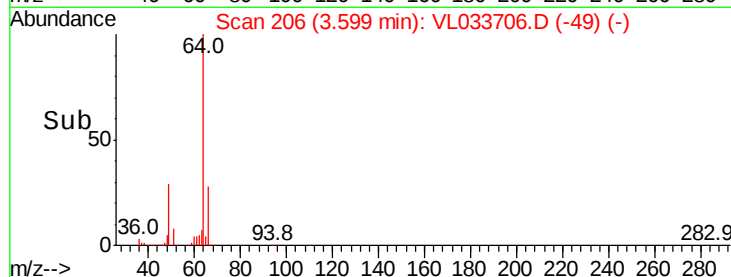
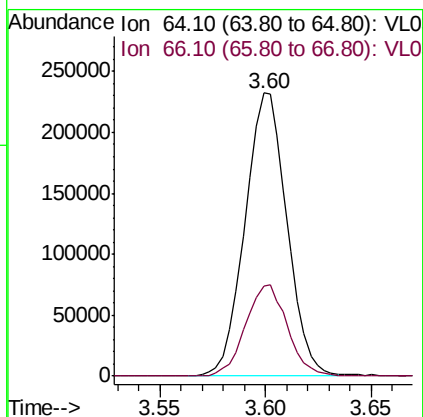
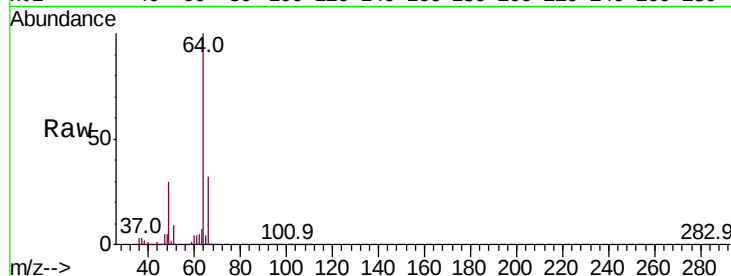
66 31.7 26.6 40.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 12.841 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033706.D

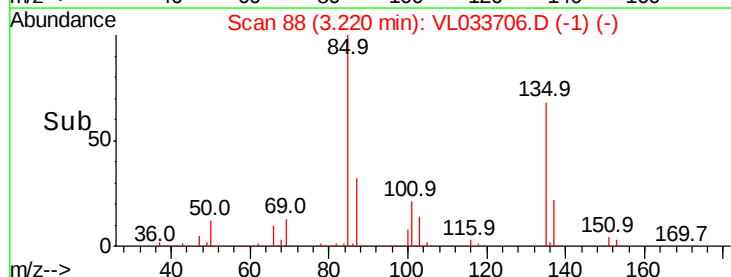
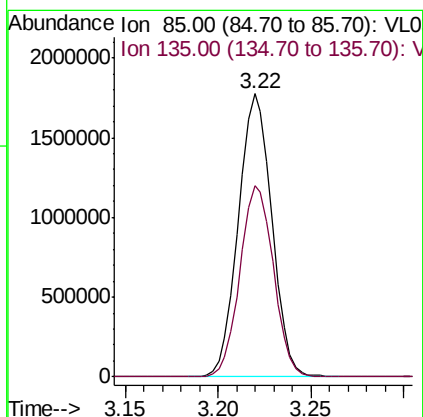
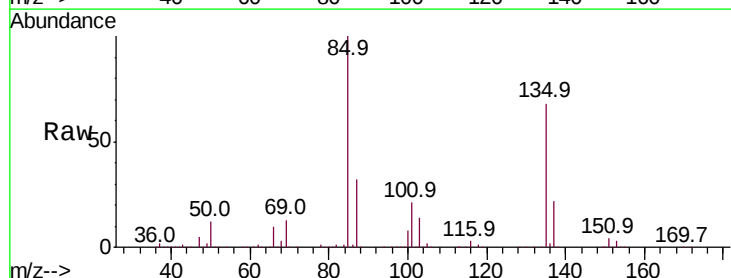
Acq: 17 May 2019 5:53

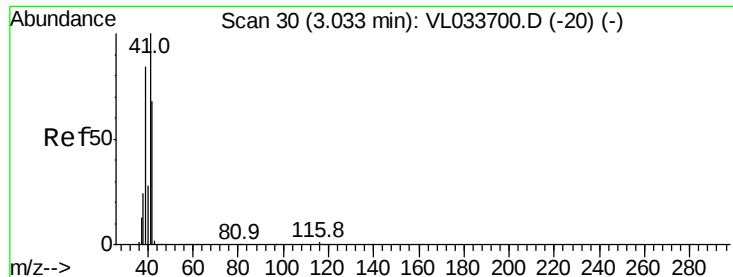
Tgt Ion: 85 Resp: 2228553

Ion Ratio Lower Upper

85 100

135 67.9 54.5 81.7





#9

Propene

Concen: 13.556 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 674798

Ion Ratio Lower Upper

41 100

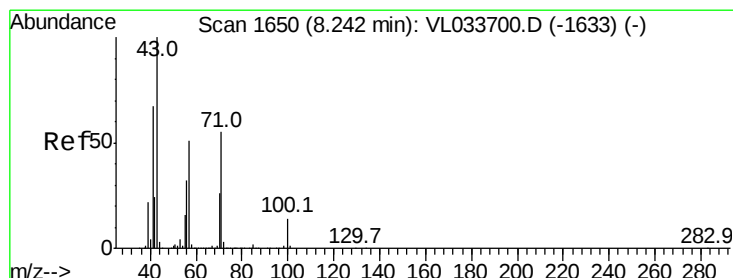
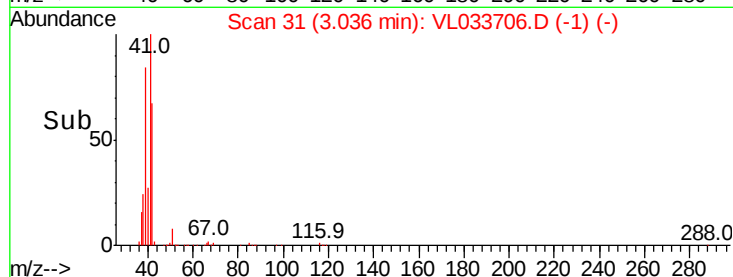
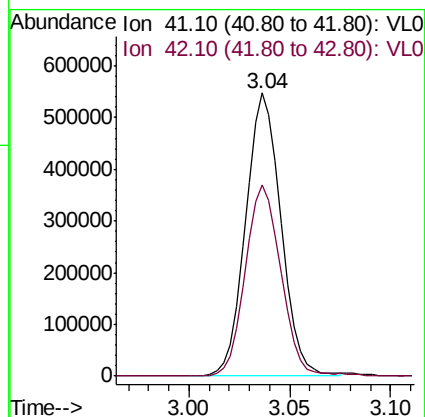
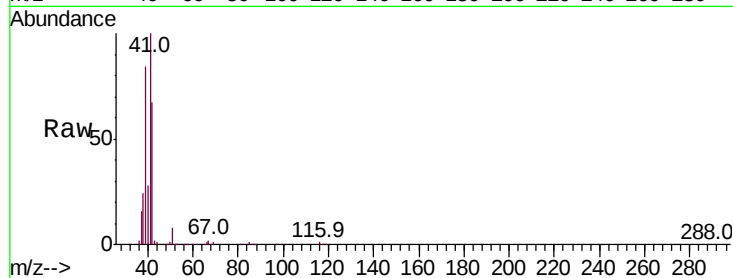
42 68.5 56.1 84.1

Manual Integrations

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#10

Heptane

Concen: 17.773 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.01 min

Lab File: VL033706.D

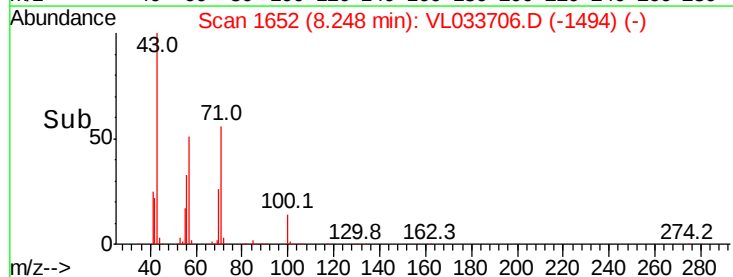
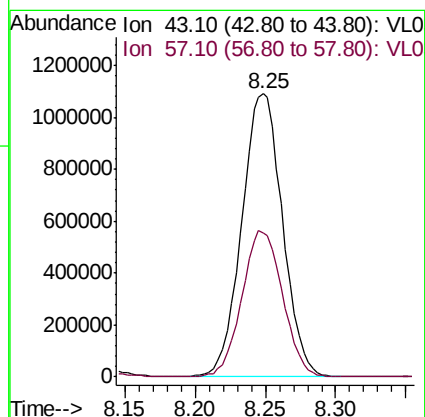
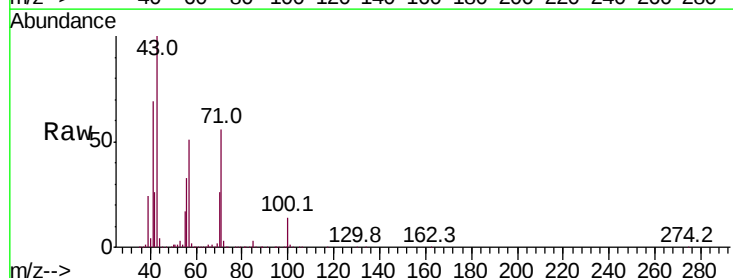
Acq: 17 May 2019 5:53

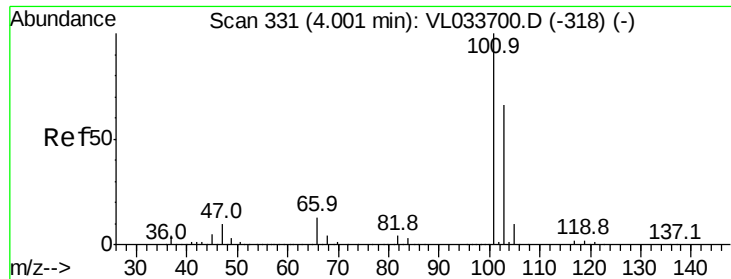
Tgt Ion: 43 Resp: 2192447

Ion Ratio Lower Upper

43 100

57 51.9 41.4 62.0





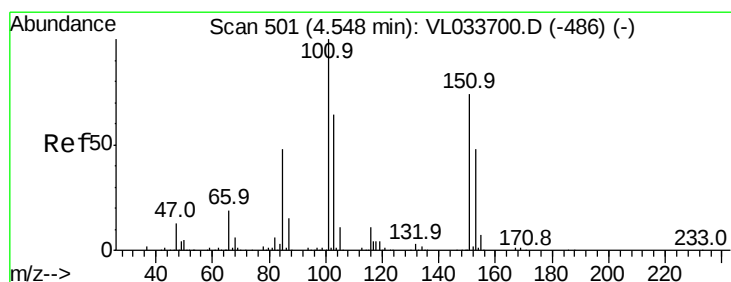
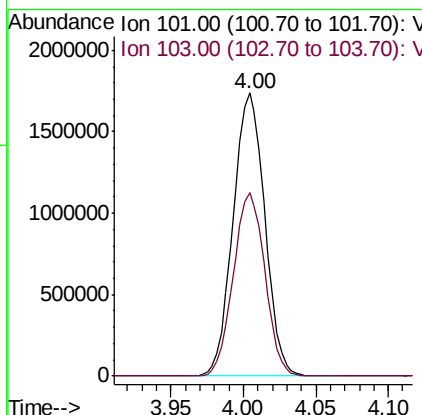
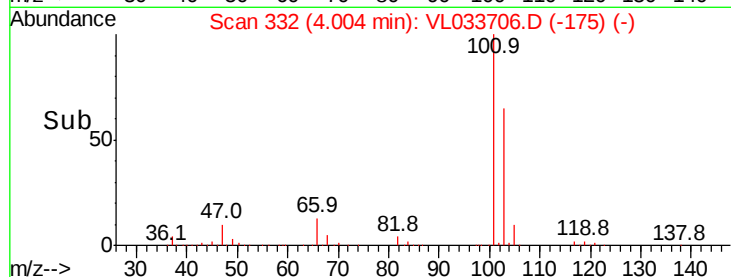
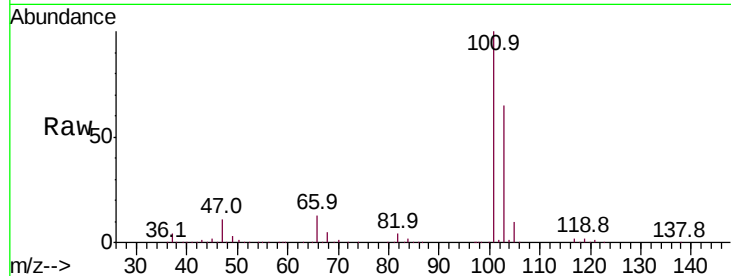
#11
 Trichlorofluoromethane
 Concen: 13.199 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2632367
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.6 78.8

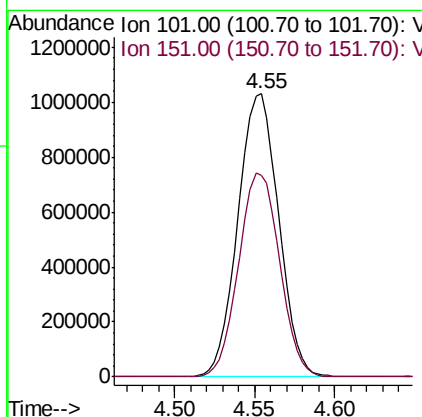
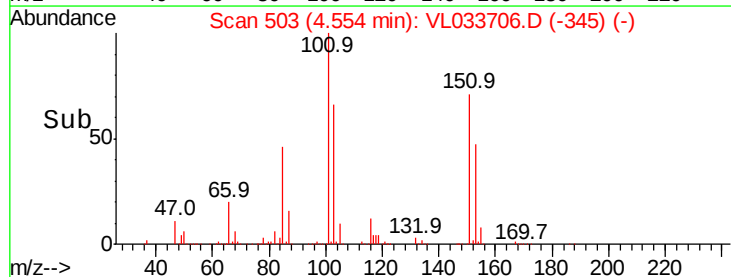
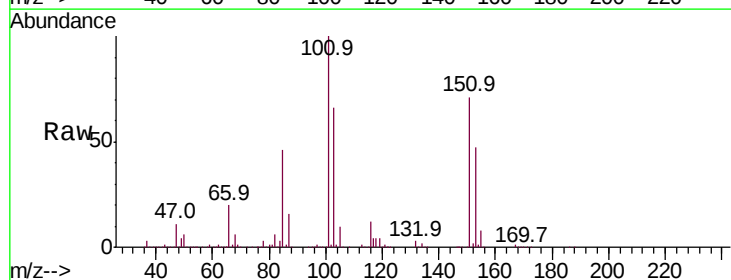
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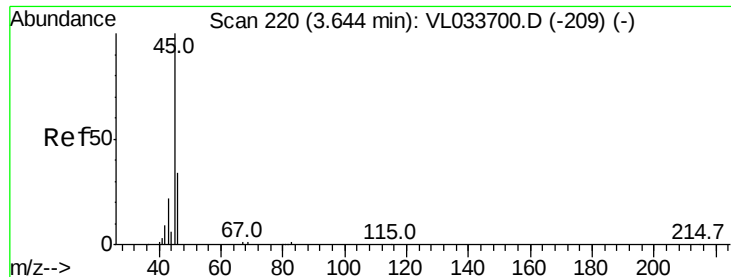
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.318 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.01 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Tgt Ion:101 Resp: 1791396
 Ion Ratio Lower Upper
 101 100
 151 72.7 58.2 87.4





#13

Ethanol

Concen: 10.414 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC015

Tot Ion: 45 Resp: 157880

Ion Ratio Lower Upper

45 100

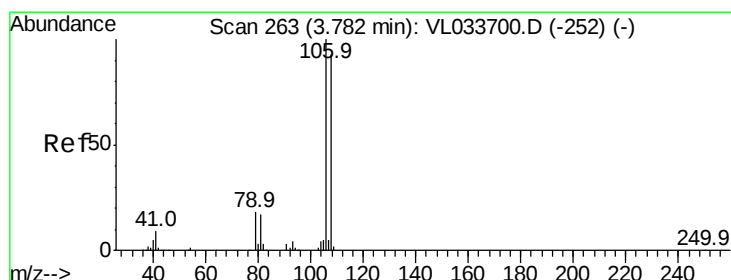
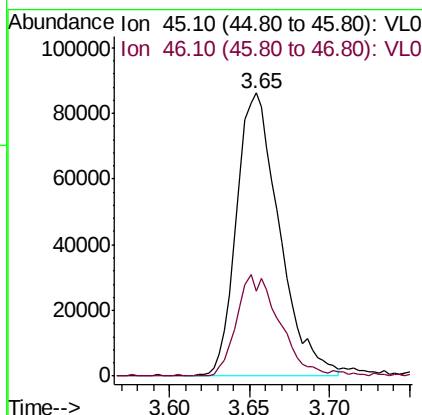
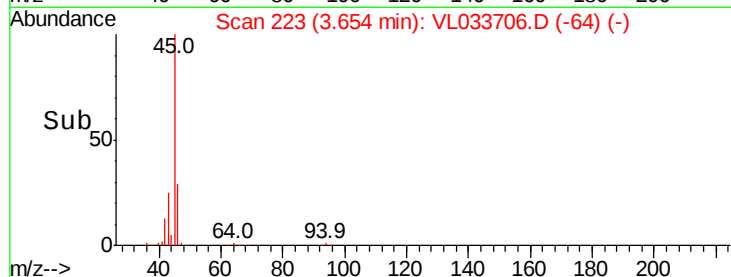
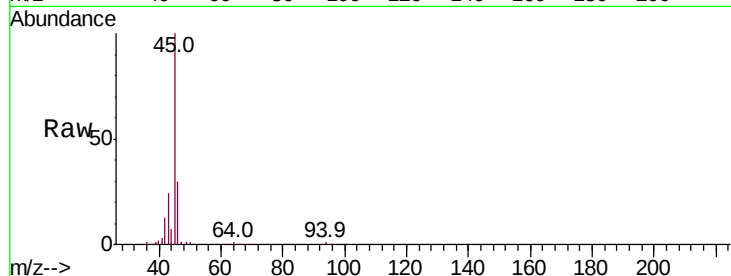
46 37.0 14.8 59.0

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#14

Bromoethene

Concen: 13.595 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

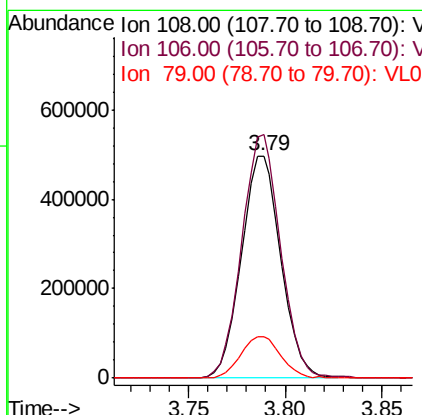
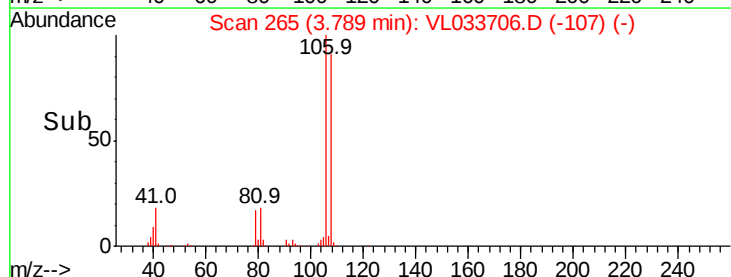
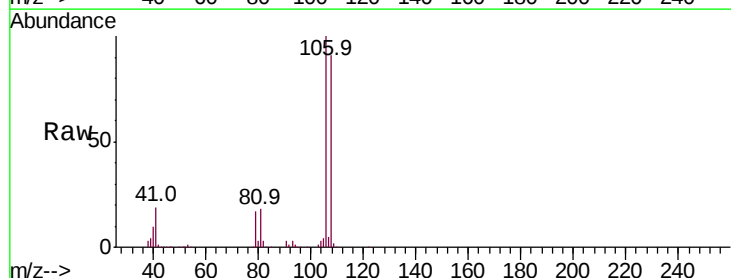
Tgt Ion: 108 Resp: 705803

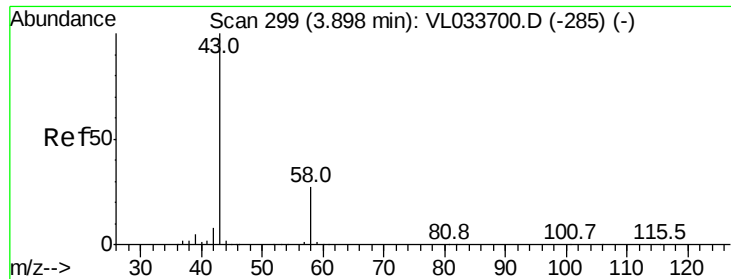
Ion Ratio Lower Upper

108 100

106 108.3 86.5 129.7

79 19.4 15.1 22.7





#15

Acetone

Concen: 12.330 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1673105

Ion Ratio Lower Upper

43 100

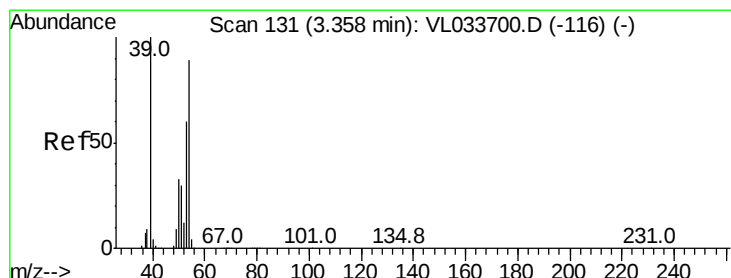
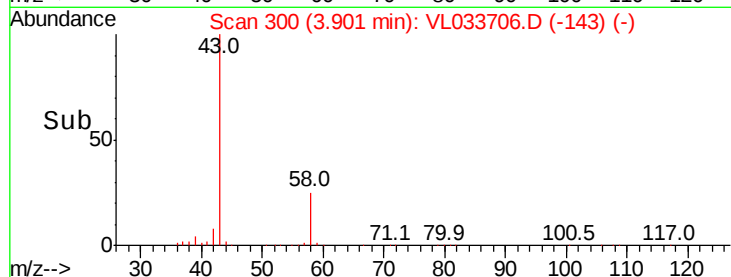
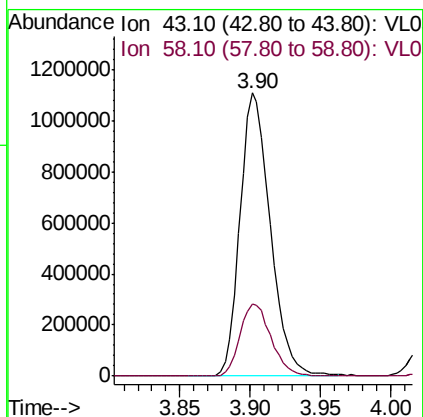
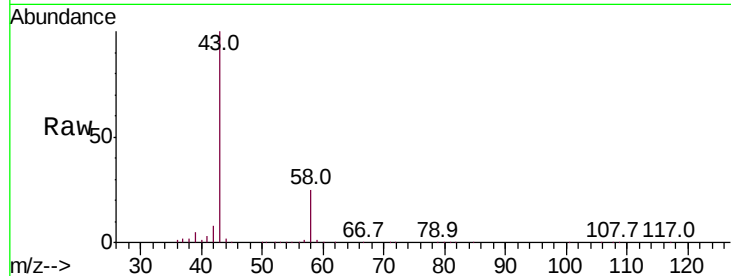
58 26.2 21.3 31.9

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#16

1,3-Butadiene

Concen: 13.980 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.01 min

Lab File: VL033706.D

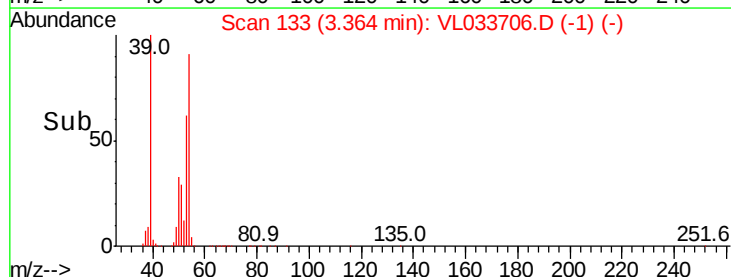
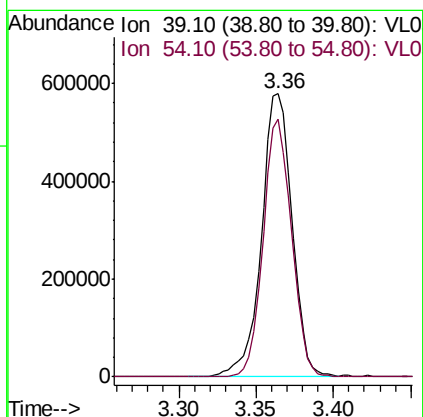
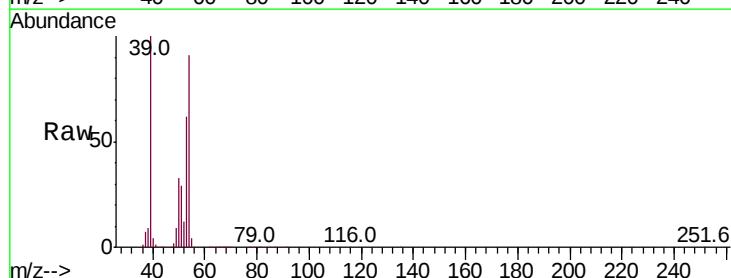
Acq: 17 May 2019 5:53

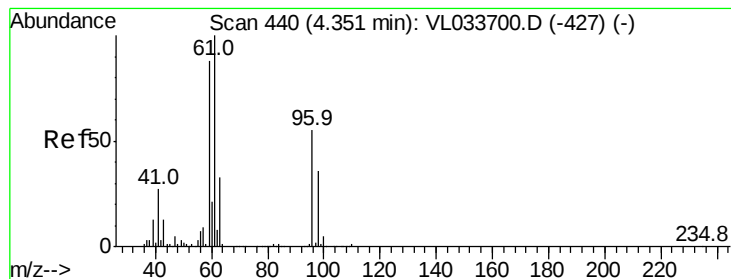
Tgt Ion: 39 Resp: 796053

Ion Ratio Lower Upper

39 100

54 85.0 69.0 103.6





#17

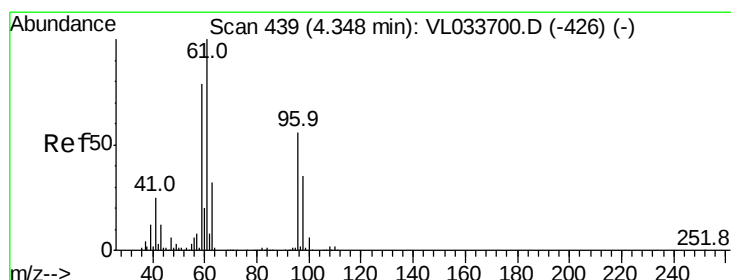
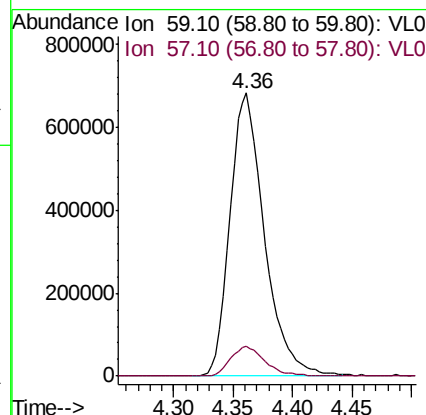
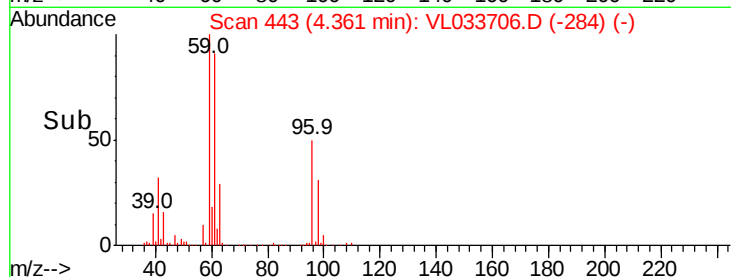
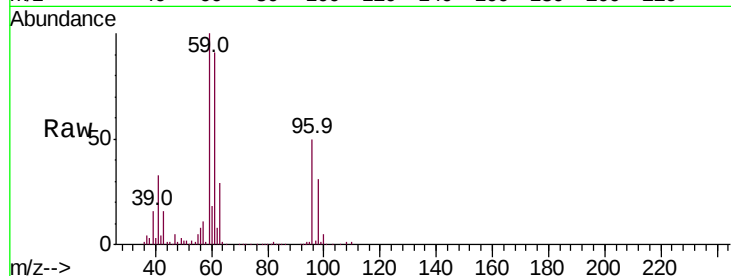
tert-Butyl alcohol
Concen: 13.102 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 59 Resp: 1367878
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

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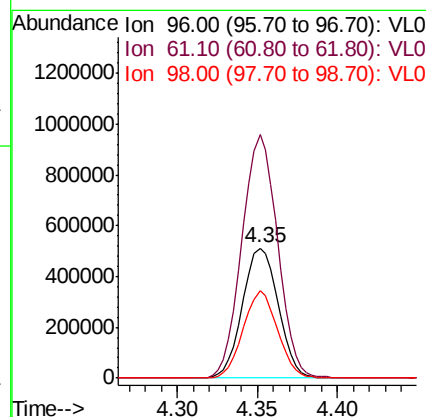
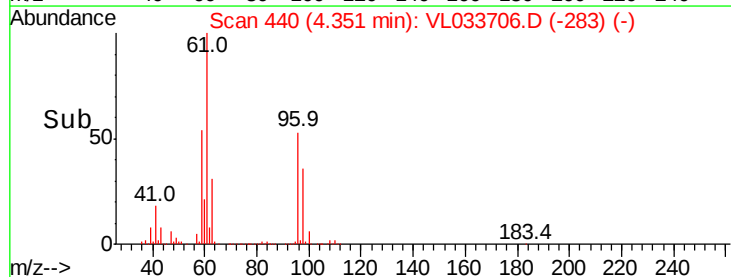
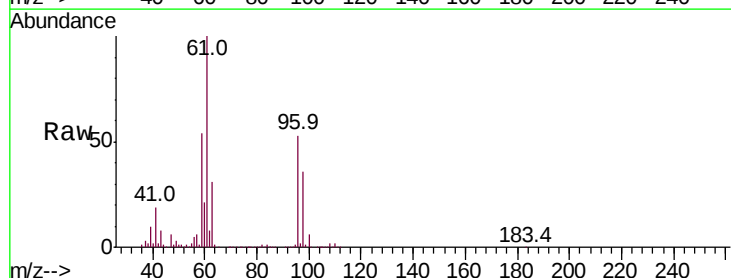
MMDadoda
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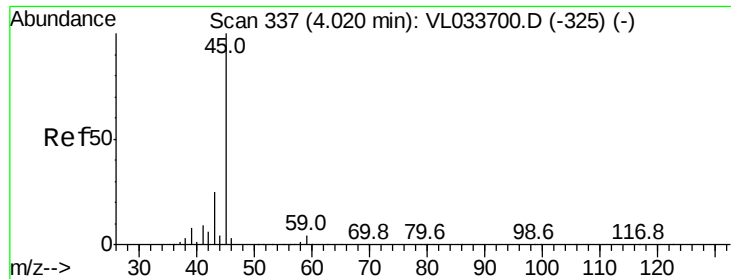


#18

1,1-Dichloroethene
Concen: 13.504 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 96 Resp: 782236
Ion Ratio Lower Upper
96 100
61 187.7 143.1 214.7
98 67.0 49.5 74.3





#19

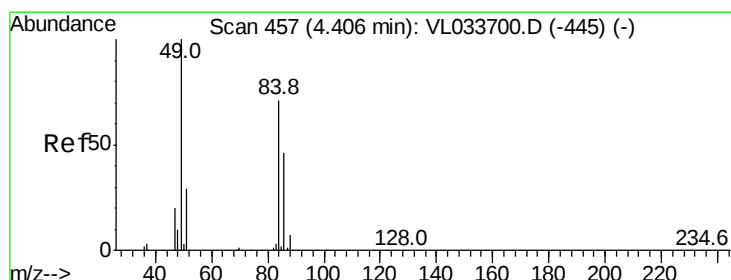
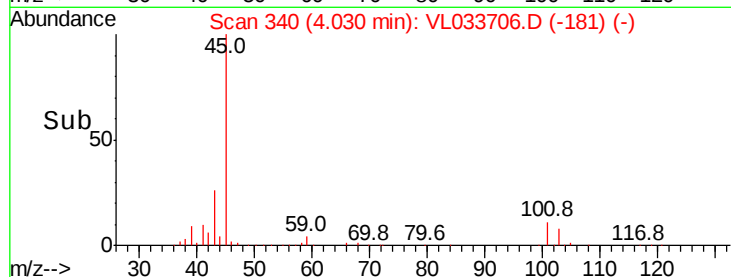
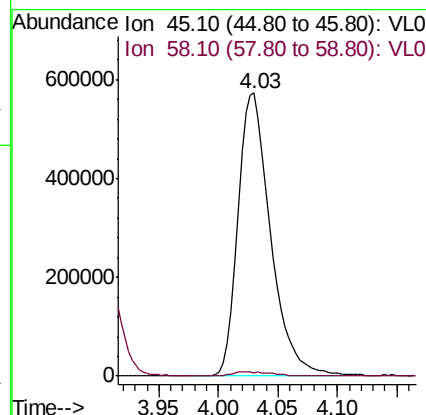
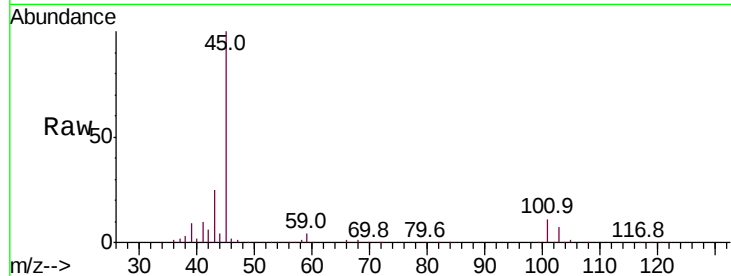
Isopropyl Alcohol
 Concen: 12.823 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.01 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1086363
 Ion Ratio Lower Upper
 45 100
 58 2.1 1.6 2.4

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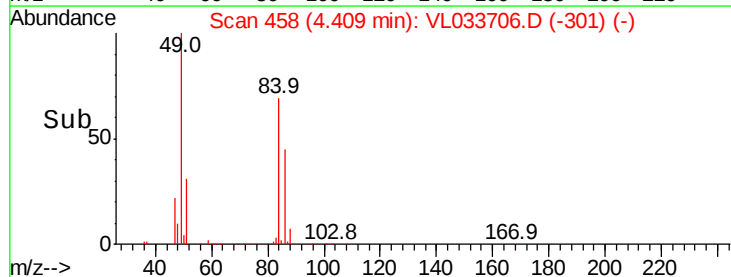
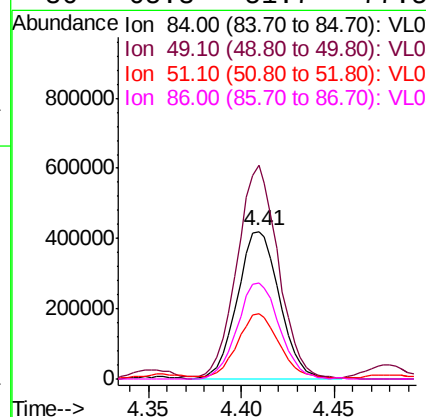
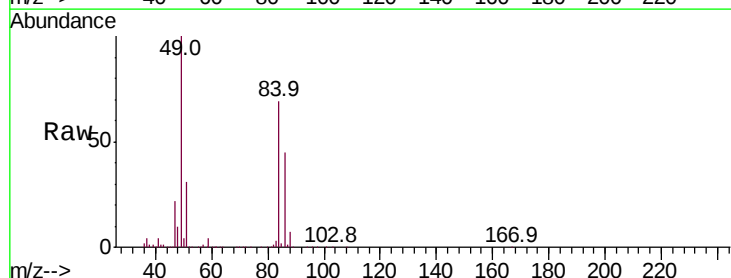
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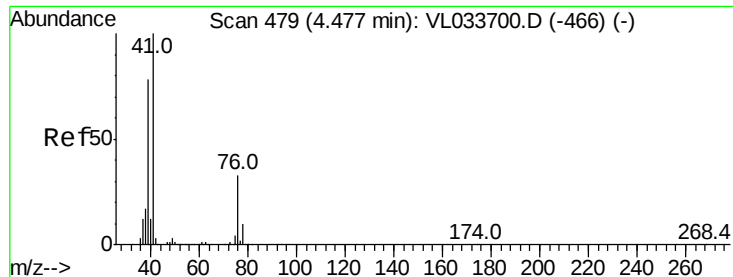


#20

Methylene Chloride
 Concen: 12.814 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Tgt Ion: 84 Resp: 657391
 Ion Ratio Lower Upper
 84 100
 49 144.3 112.8 169.2
 51 44.1 33.4 50.0
 86 65.3 51.7 77.5





#21

Allvl Chloride

Concen: 14.291 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1177889

Ion Ratio Lower Upper

41 100

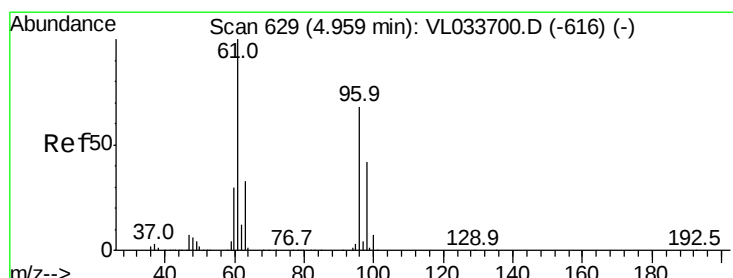
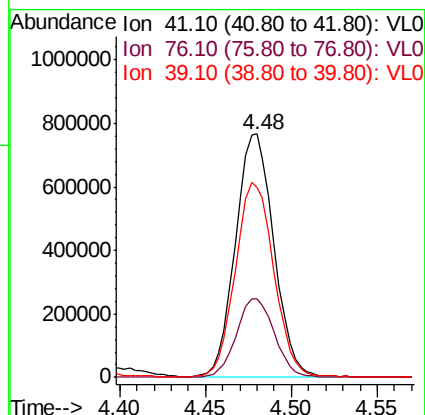
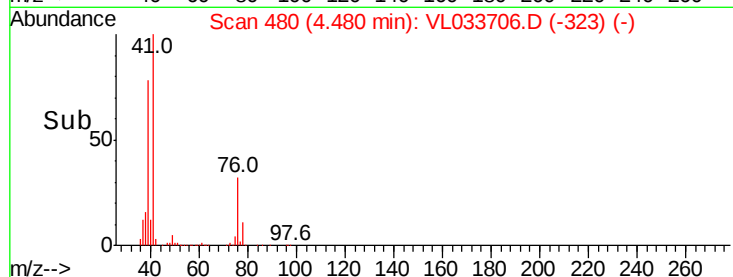
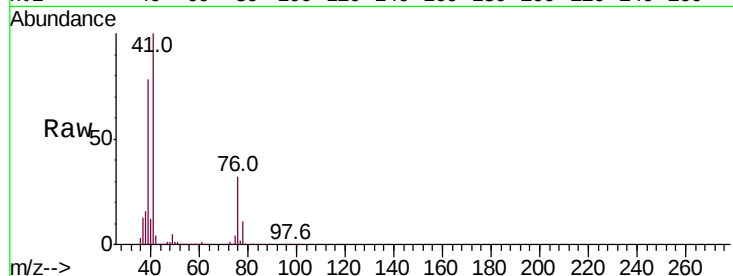
76 32.4 25.9 38.9

39 81.4 64.6 97.0

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#22

trans-1,2-Dichloroethene

Concen: 14.126 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

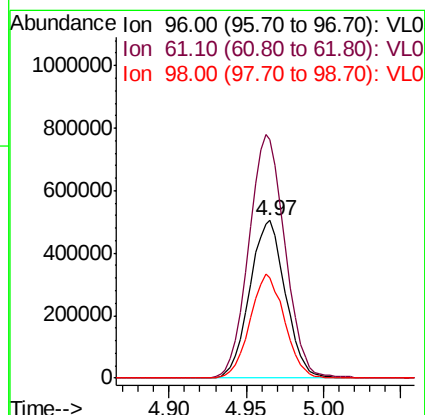
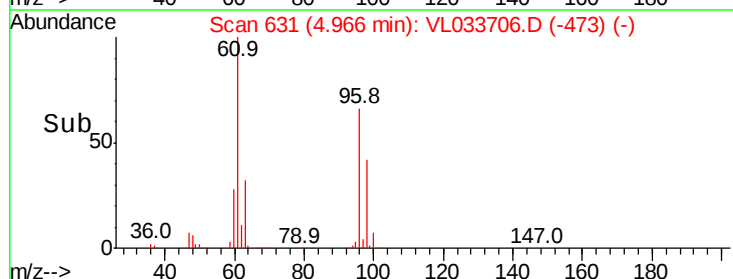
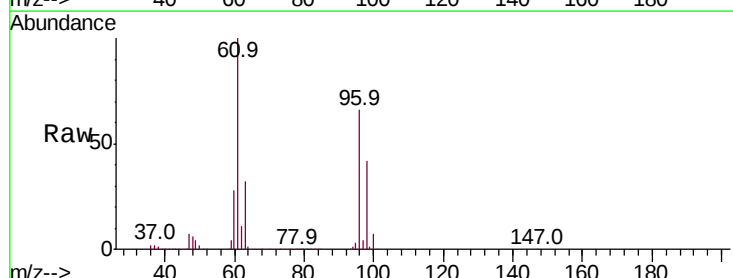
Tgt Ion: 96 Resp: 811561

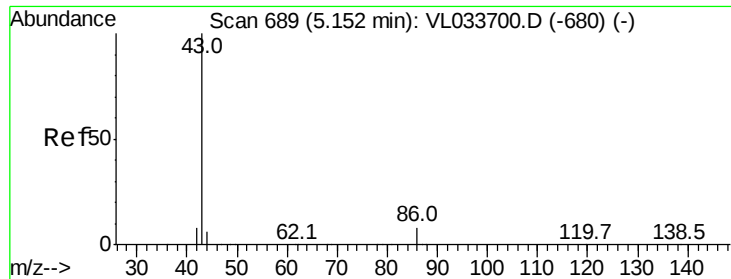
Ion Ratio Lower Upper

96 100

61 151.3 116.8 175.2

98 63.8 49.4 74.0





#23

Vinyl Acetate

Concen: 14.466 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2530413

Ion Ratio Lower Upper

43 100

86 8.0 6.0 9.0

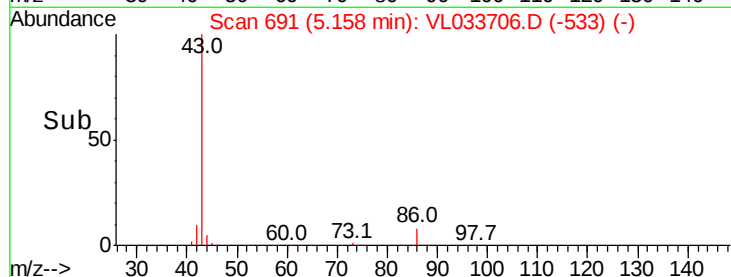
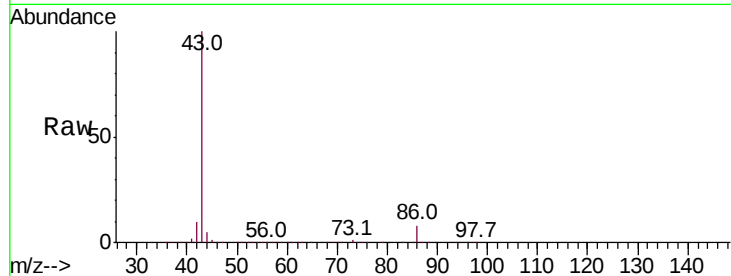
42 9.9 7.5 11.3

44 5.1 4.4 6.6

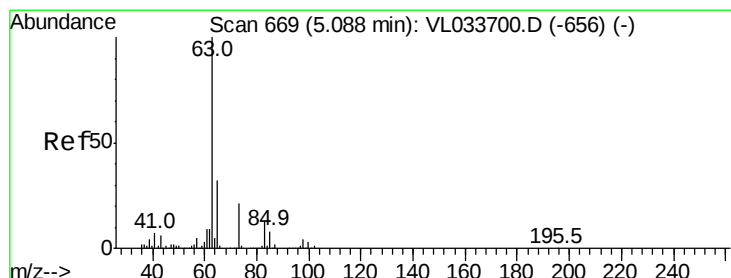
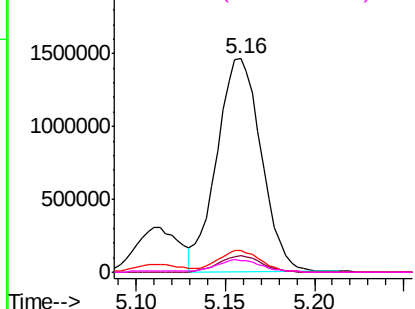
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.221 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

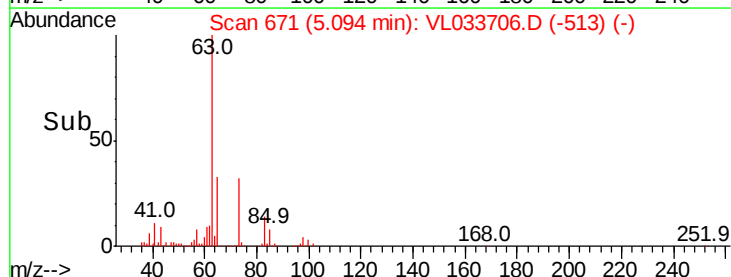
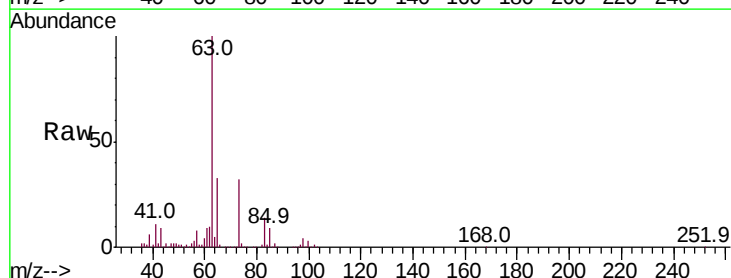
Tgt Ion: 63 Resp: 1746940

Ion Ratio Lower Upper

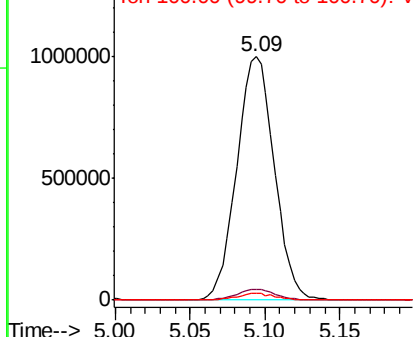
63 100

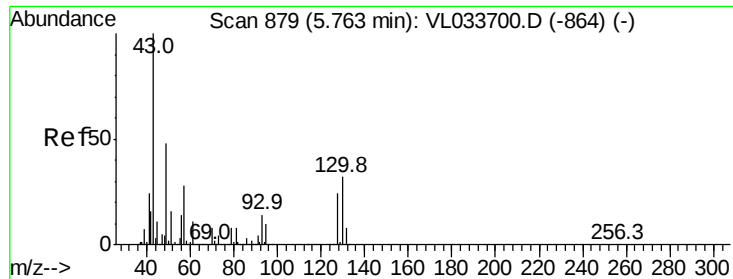
98 4.4 1.8 5.5

100 2.9 1.4 4.2



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: 14.033 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tot Ion: 43 Resp: 3101243

Ion Ratio Lower Upper

43 100

45 10.3 7.9 11.9

61 9.7 7.7 11.5

70 7.3 5.8 8.6

Instrument :

MSVOA_L

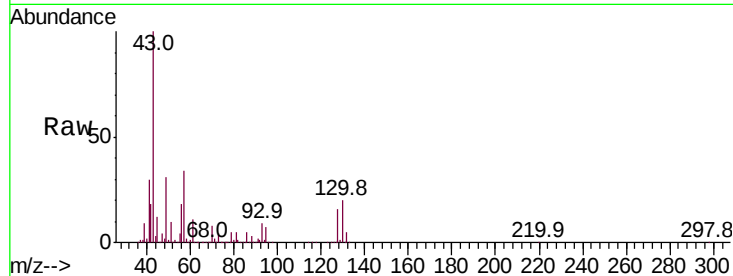
ClientSampleId :

VSTDIC015

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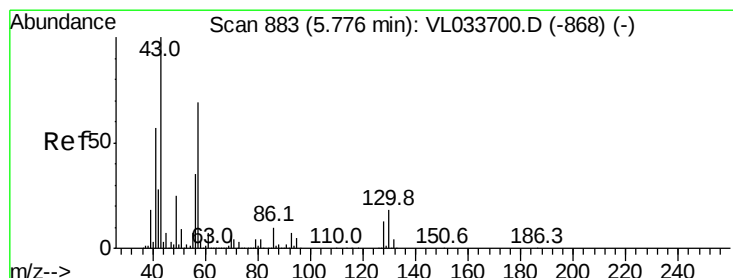
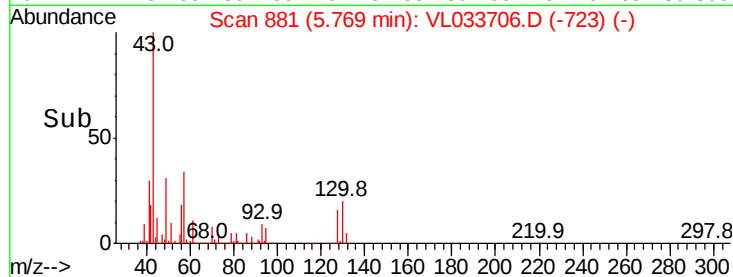
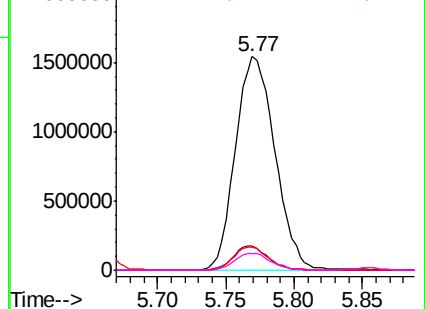


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 14.410 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion: 57 Resp: 1369431

Ion Ratio Lower Upper

57 100

41 87.6 69.8 104.6

43 227.4 181.8 272.6

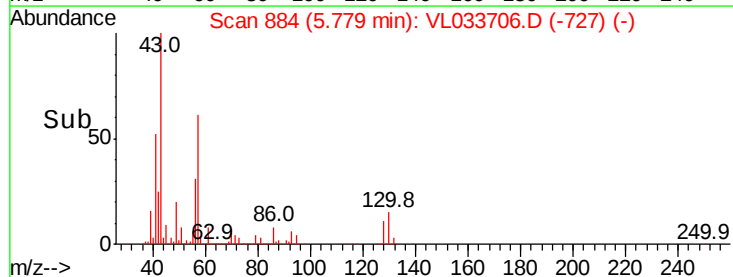
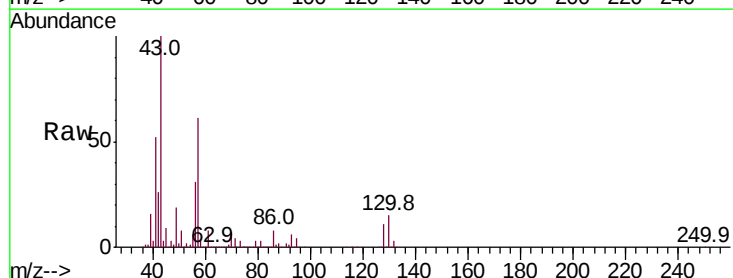
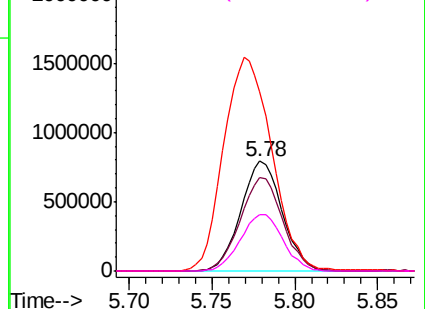
56 53.2 42.1 63.1

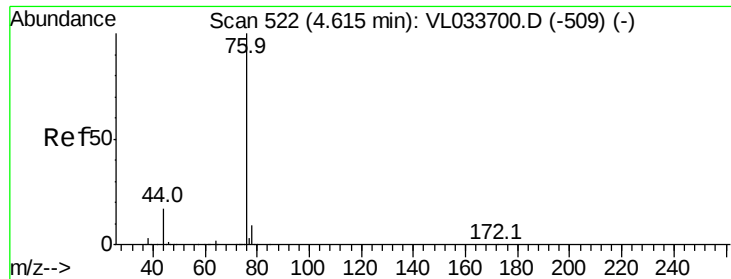
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 15.407 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2010057

Ion Ratio Lower Upper

76 100

44 17.7 13.8 20.8

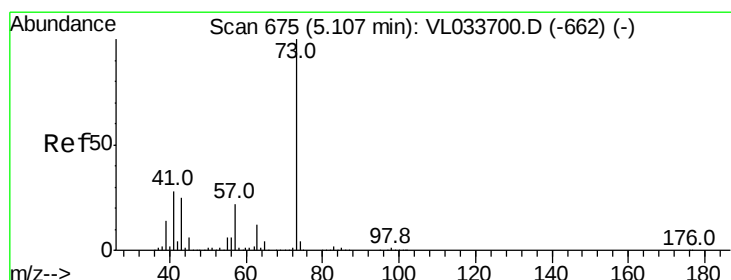
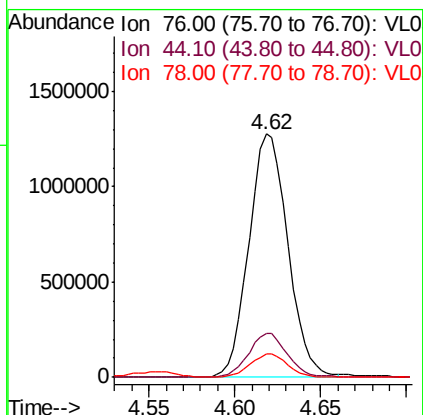
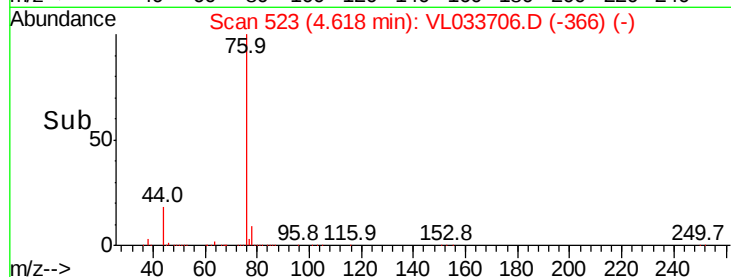
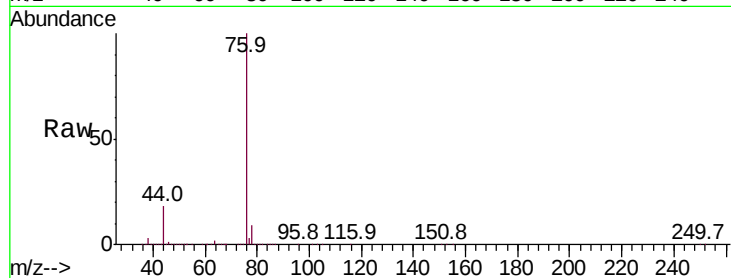
78 9.5 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 14.121 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.01 min

Lab File: VL033706.D

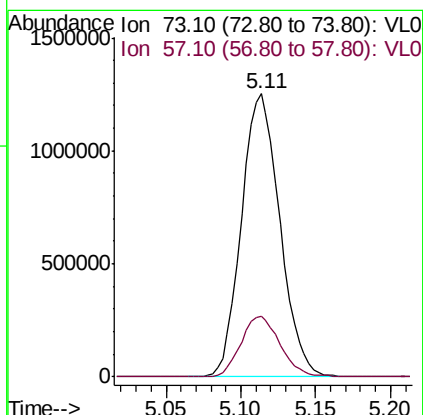
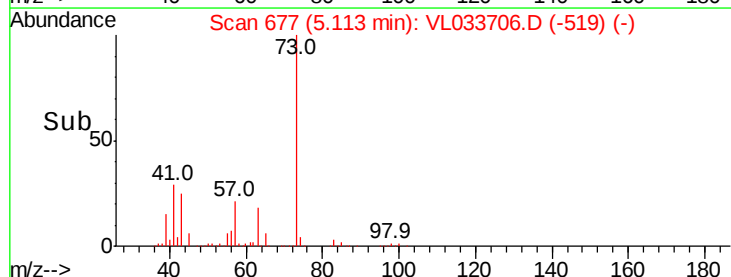
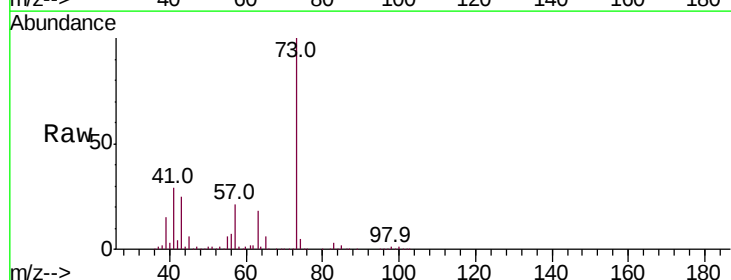
Acq: 17 May 2019 5:53

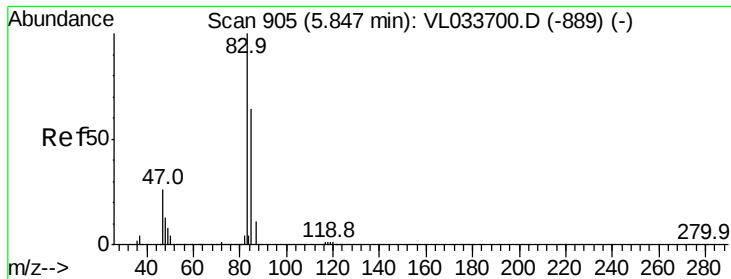
Tgt Ion: 73 Resp: 2241512

Ion Ratio Lower Upper

73 100

57 22.0 17.4 26.2





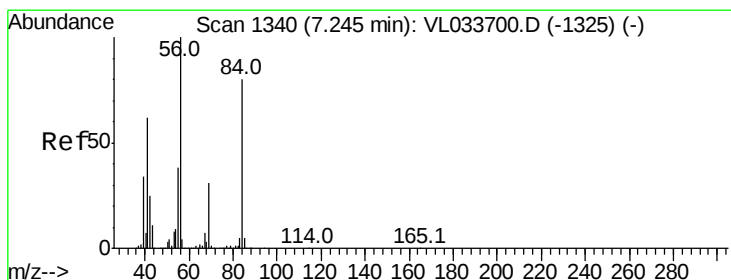
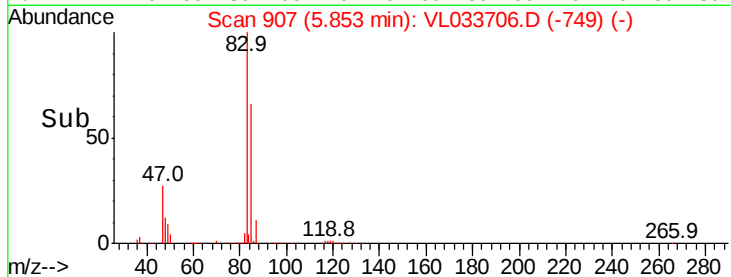
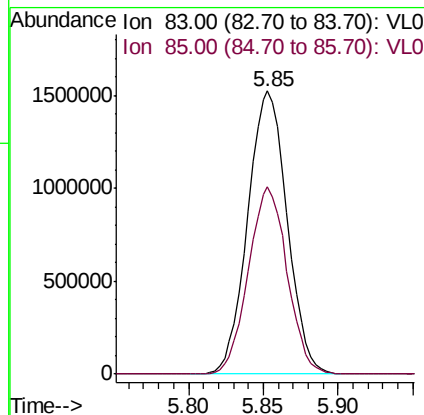
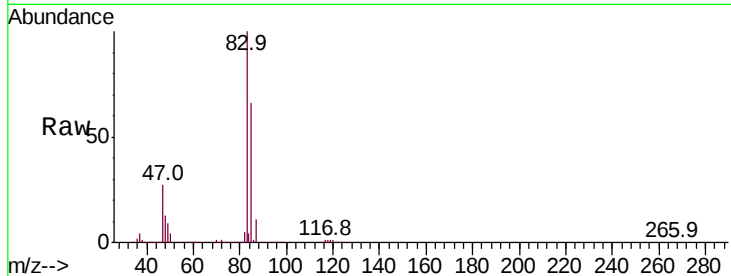
#29
Chloroform
Concen: 16.395 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2794942
Ion Ratio Lower Upper
83 100
85 66.1 51.5 77.3

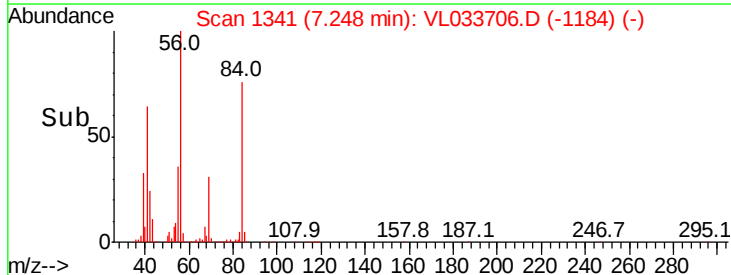
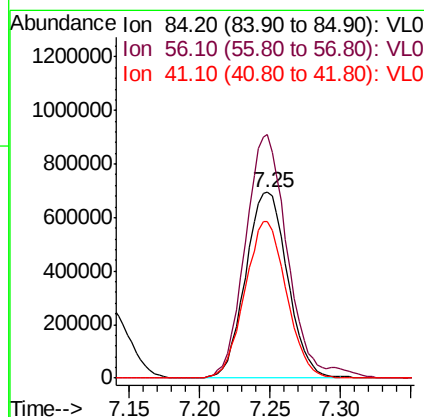
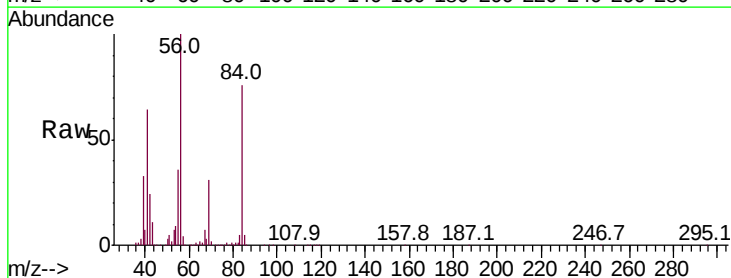
Manual Integrations
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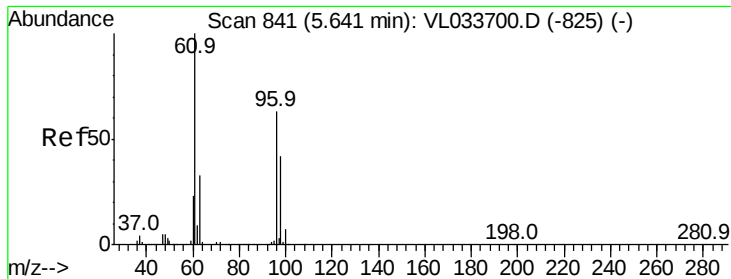
MMDadoda
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#30
Cyclohexane
Concen: 18.204 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 84 Resp: 1444335
Ion Ratio Lower Upper
84 100
56 132.4 107.7 161.5
41 83.2 66.0 99.0





#31

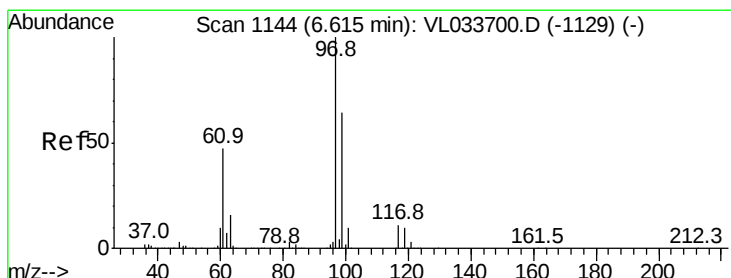
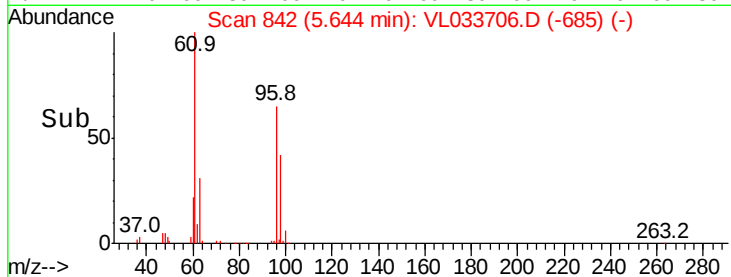
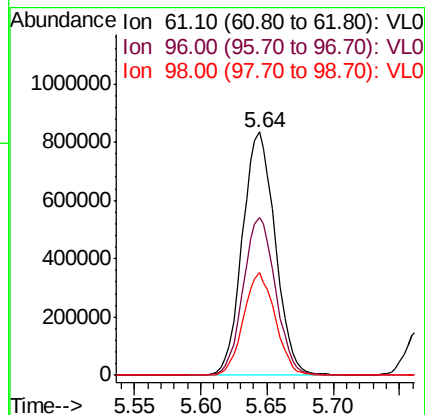
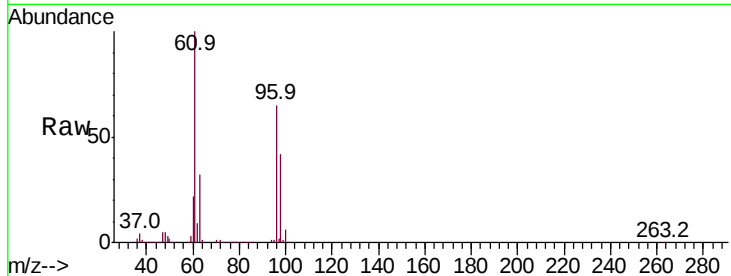
cis-1,2-Dichloroethene
Concen: 15.345 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.9	50.8	76.2
98	42.1	33.3	49.9

Manual Integrations
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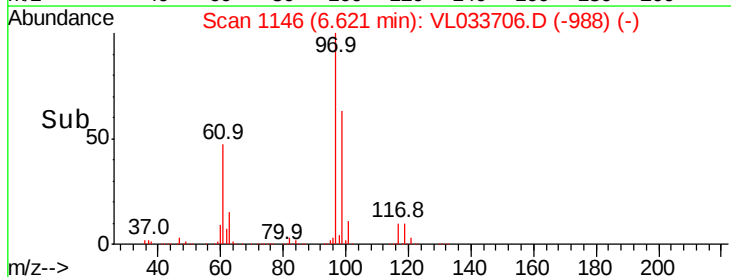
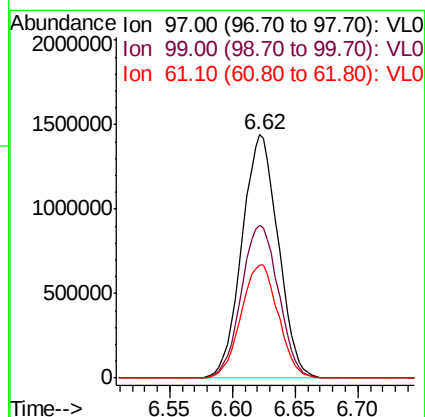
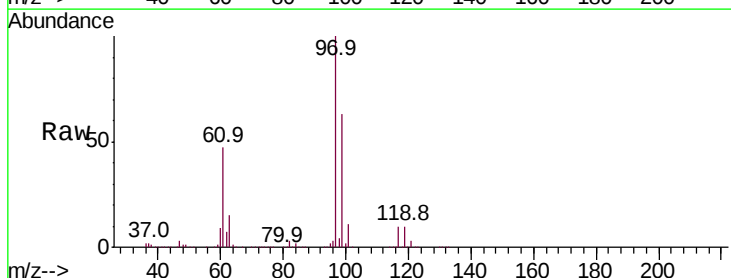
MMDadoda
5/20/2019 12:05:25 PM

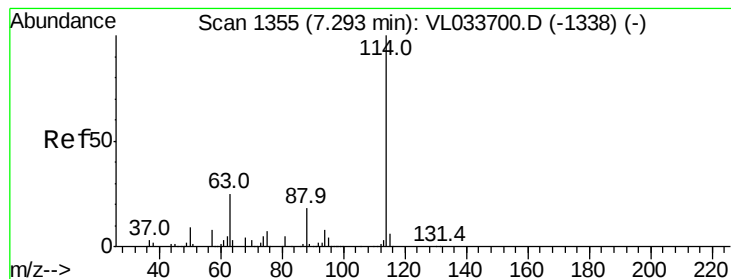


#32

1,1,1-Trichloroethane
Concen: 16.533 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	47.9	37.8	56.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 2627268

Ion Ratio Lower Upper

114 100

63 27.2 20.9 31.3

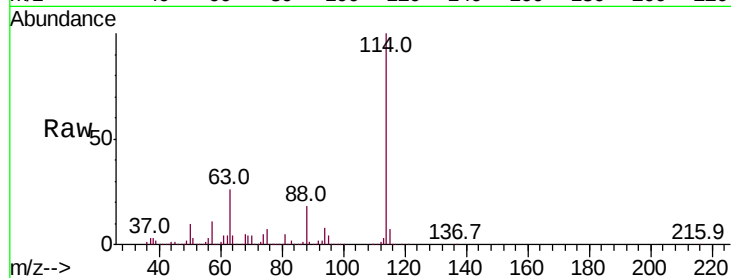
88 18.1 14.3 21.5

Manual Integrations

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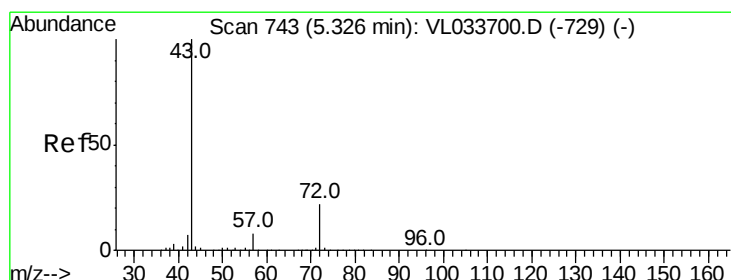
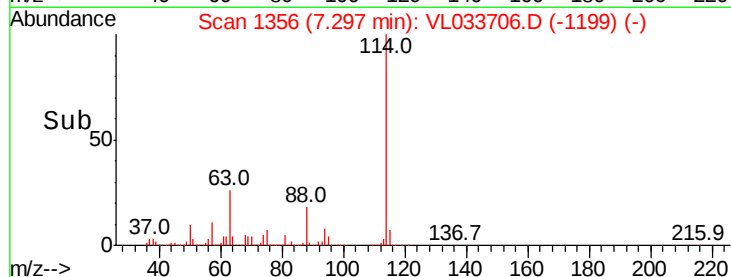
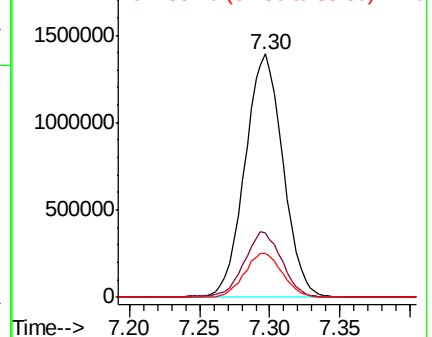
5/20/2019 12:05:25 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 11.884 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033706.D

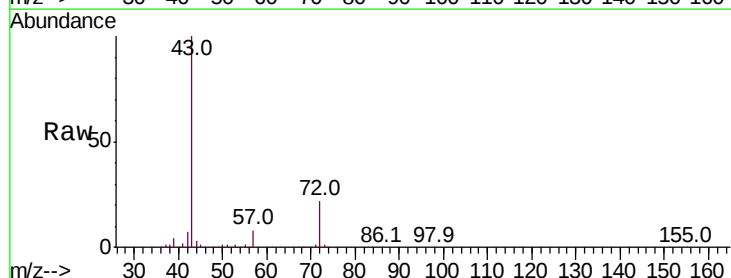
Acq: 17 May 2019 5:53

Tgt Ion: 43 Resp: 2003366

Ion Ratio Lower Upper

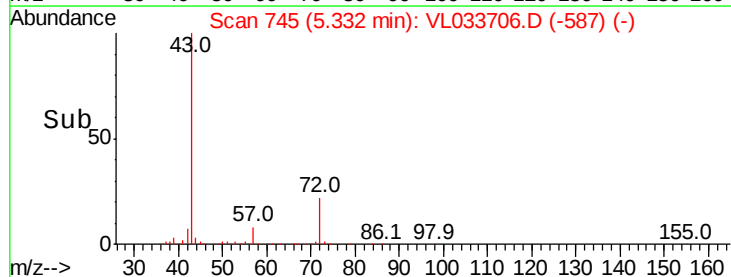
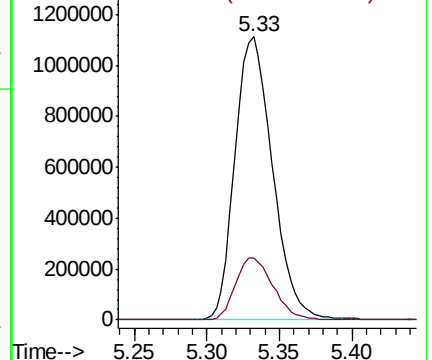
43 100

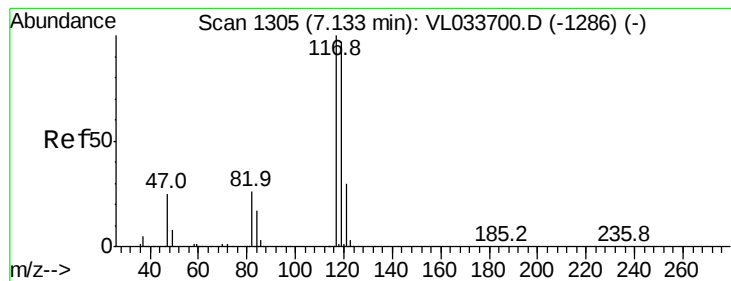
72 22.1 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 14.532 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3141673

Ion Ratio Lower Upper

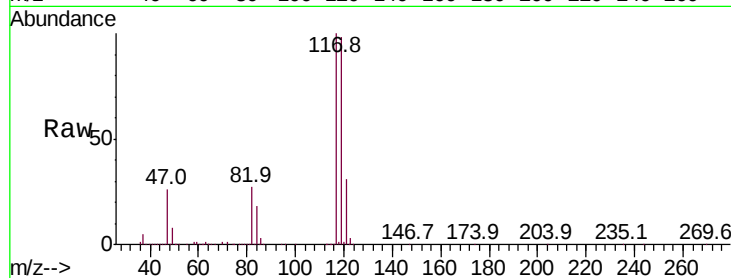
117 100

119 97.5 77.2 115.8

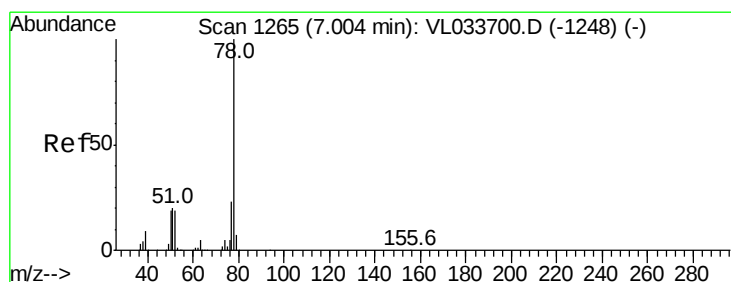
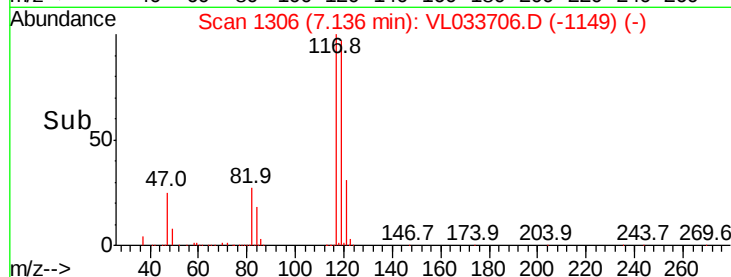
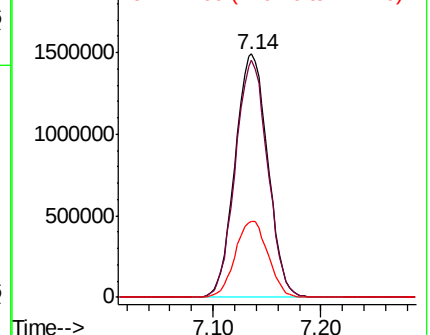
121 31.2 24.1 36.1

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Abundance Ion 117.00 (116.70 to 117.70): V
2000000 Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.685 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

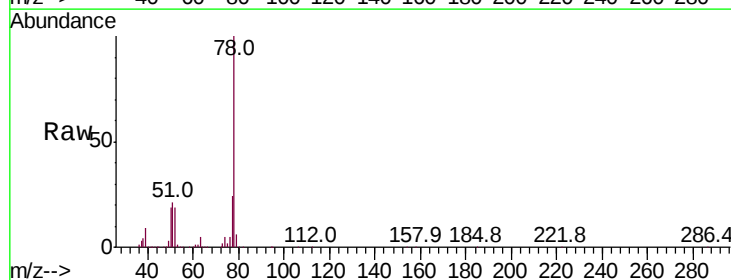
Tgt Ion: 78 Resp: 3485976

Ion Ratio Lower Upper

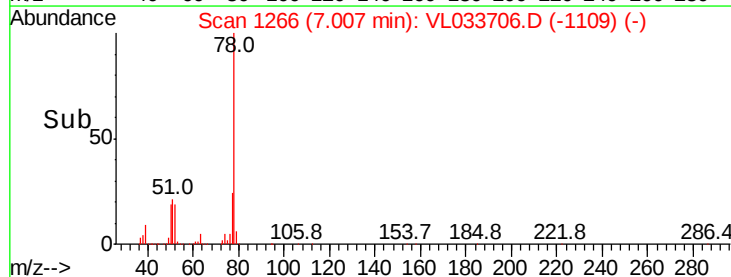
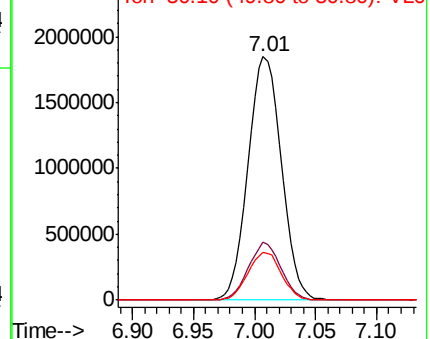
78 100

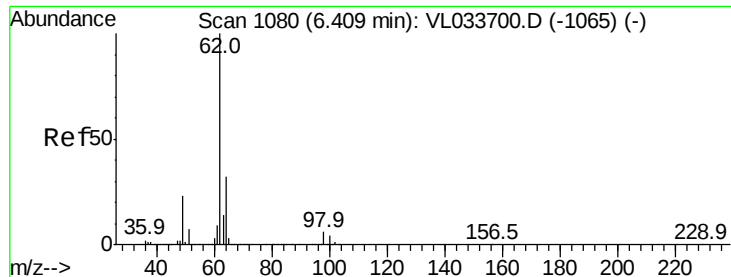
77 23.6 18.4 27.6

50 19.5 15.5 23.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
2500000 Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 13.174 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 2180055

Ion Ratio Lower Upper

62 100

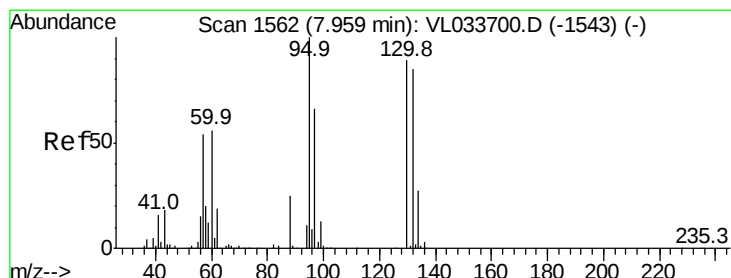
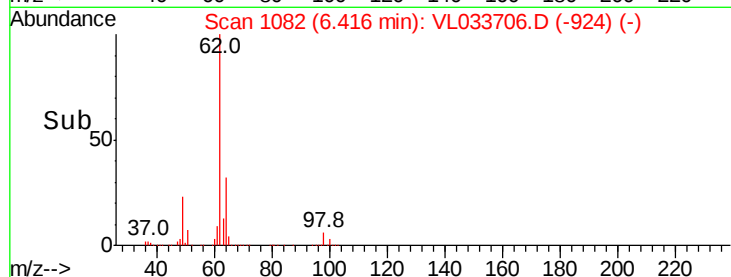
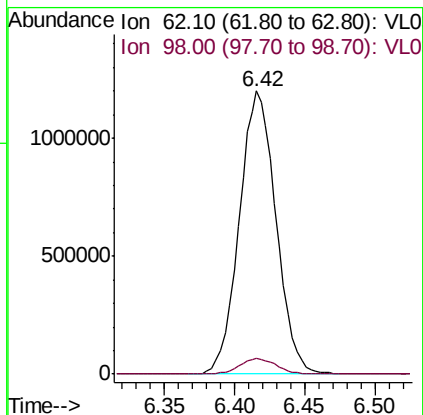
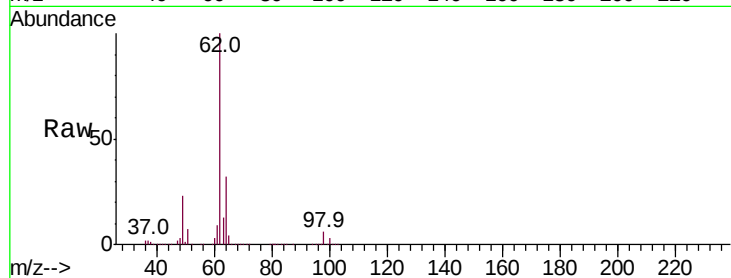
98 5.6 4.5 6.7

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#38

Trichloroethene

Concen: 16.195 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion:130 Resp: 1402689

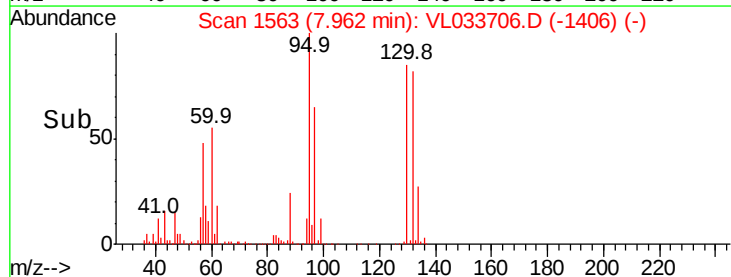
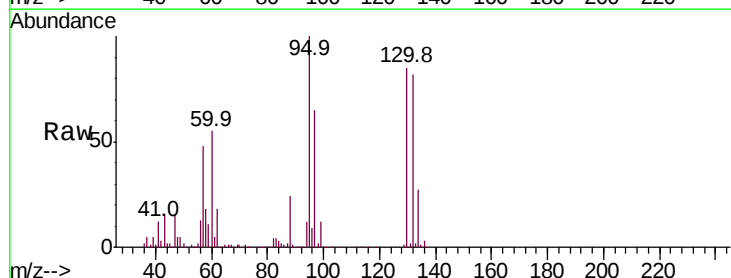
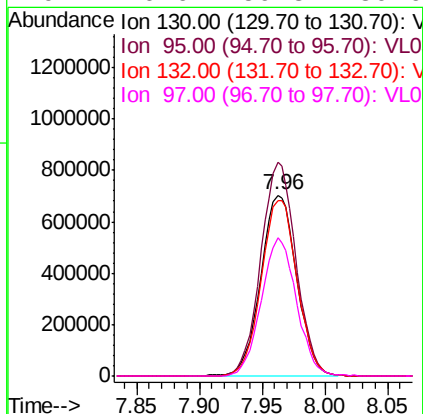
Ion Ratio Lower Upper

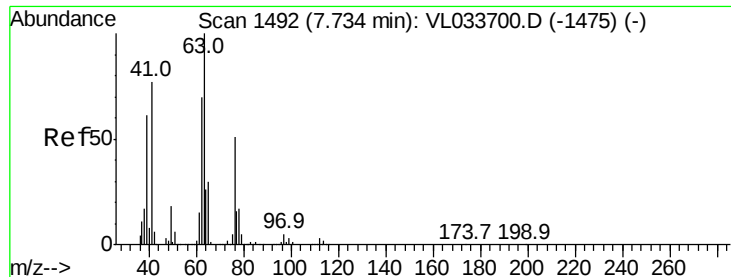
130 100

95 118.0 90.2 135.4

132 97.1 76.4 114.6

97 76.6 59.8 89.6





#39

1,2-Dichloropropane

Concen: 14.702 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1300829

Ion Ratio Lower Upper

63 100

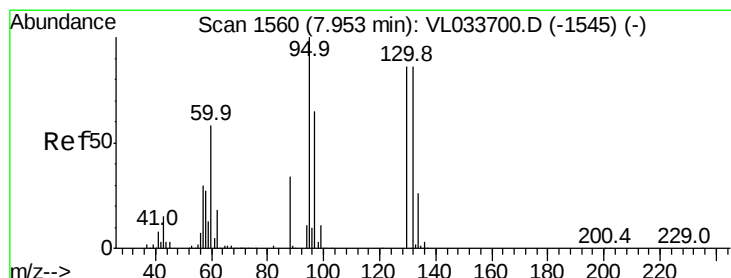
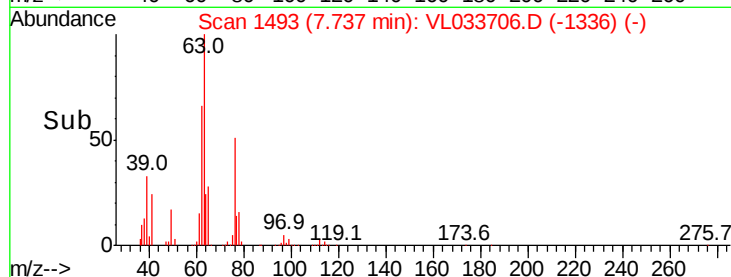
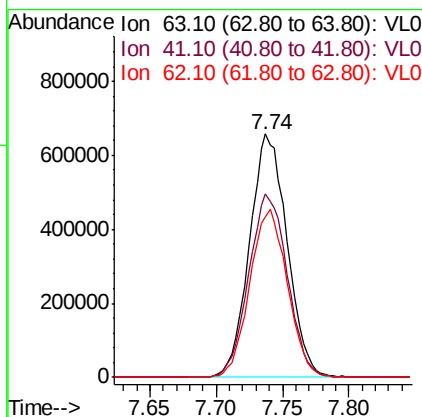
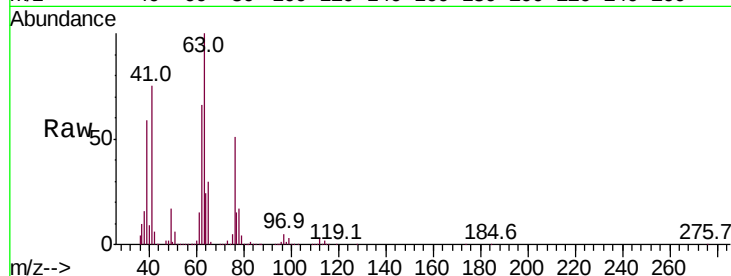
41 75.3 61.5 92.3

62 65.7 56.2 84.4

Manual Integrations
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#40

1,4-Dioxane

Concen: 14.672 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion: 88 Resp: 525288

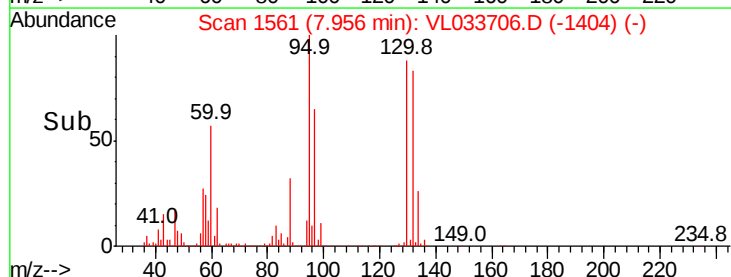
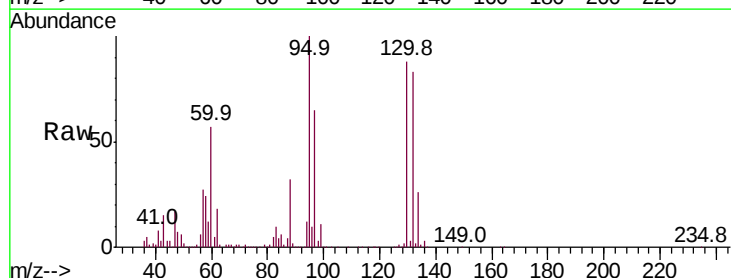
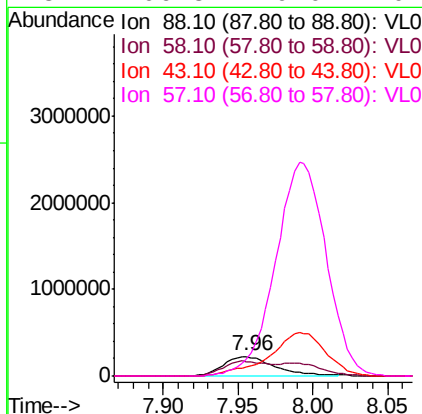
Ion Ratio Lower Upper

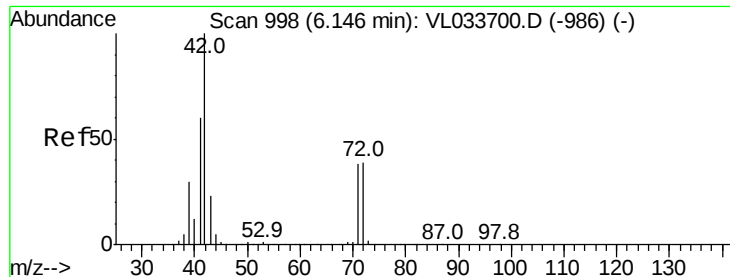
88 100

58 125.6 101.8 152.6

43 249.0 0.0 0.0#

57 1106.5 0.0 0.0#





#41

Tetrahydrofuran

Concen: 15.836 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1397221

Ion Ratio Lower Upper

42 100

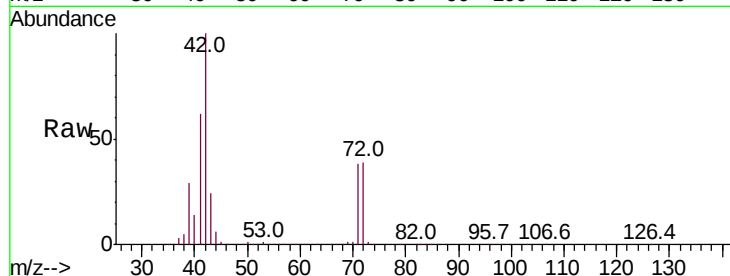
72 39.8 32.0 48.0

71 38.7 30.4 45.6

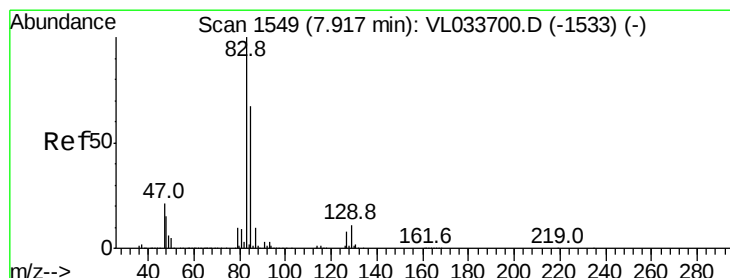
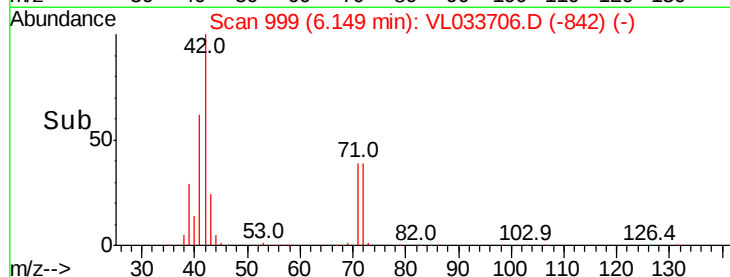
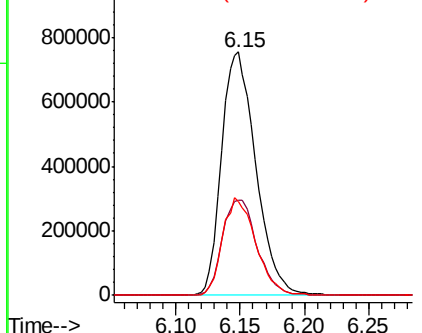
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 14.743 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

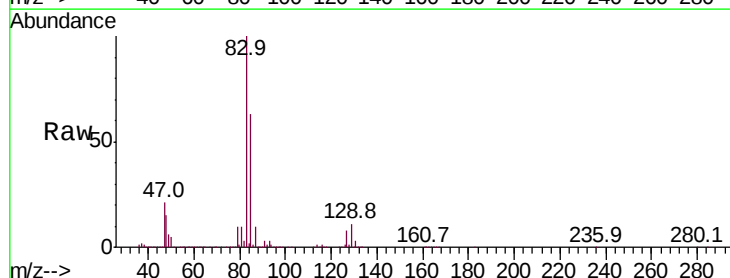
Tgt Ion: 83 Resp: 3135468

Ion Ratio Lower Upper

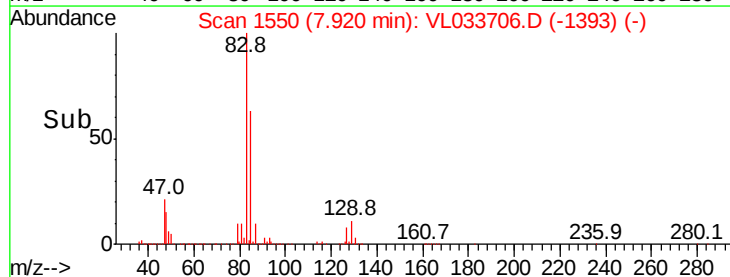
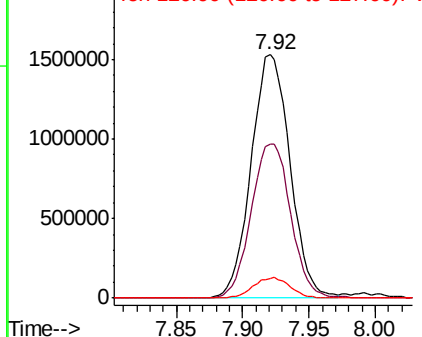
83 100

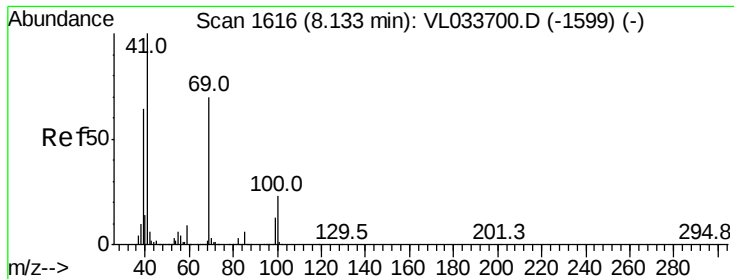
85 63.4 53.3 79.9

127 8.1 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methvl Methacrvlate

Concen: 15.903 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 69 Resp: 1416704

Ion Ratio Lower Upper

69 100

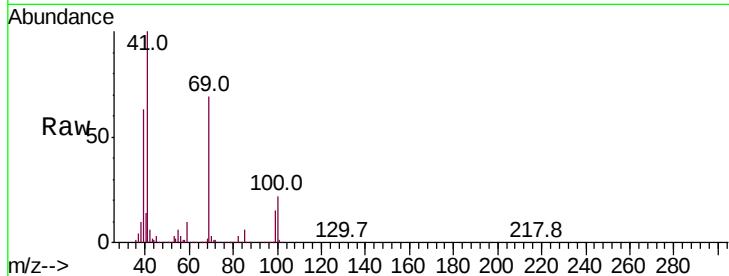
41 144.9 116.3 174.5

100 31.0 25.3 37.9

Manual Integrations
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MMDadoda

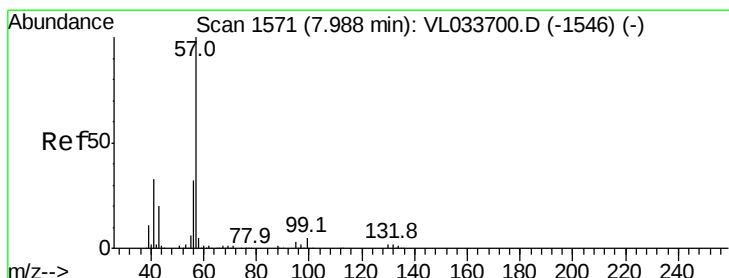
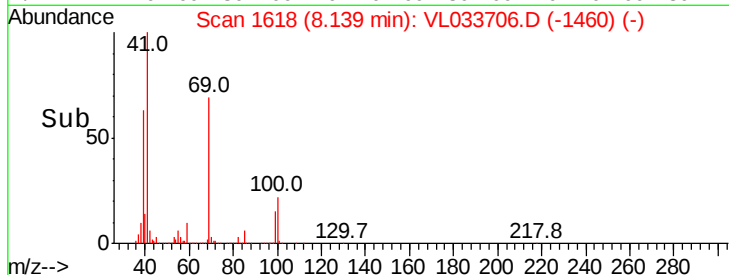
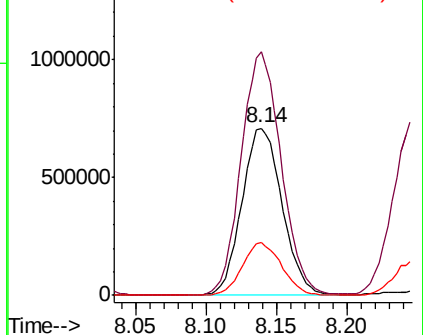
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Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 14.339 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

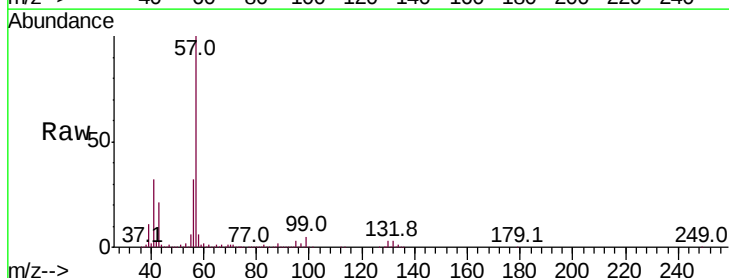
Tgt Ion: 57 Resp: 5811171

Ion Ratio Lower Upper

57 100

41 32.1 25.4 38.0

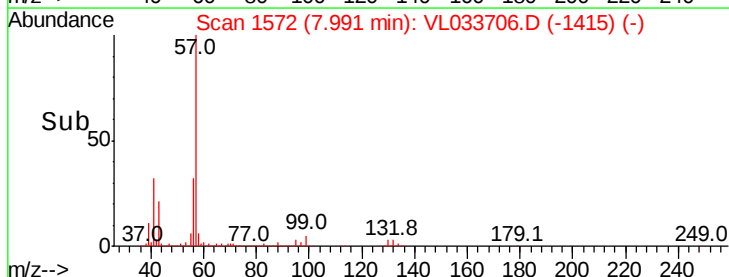
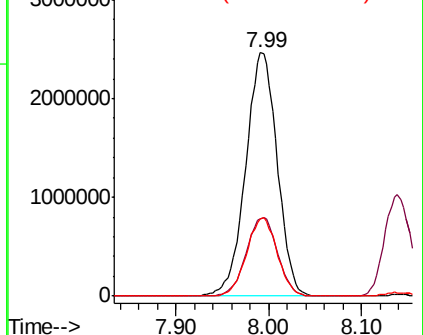
56 31.3 24.7 37.1

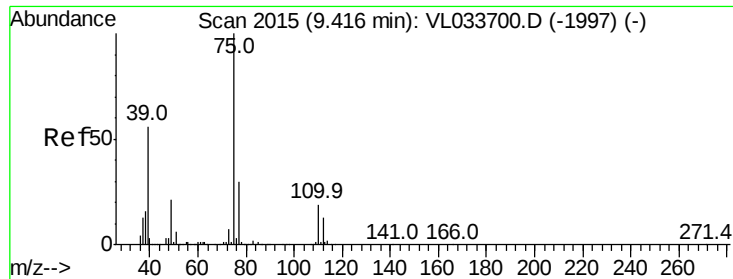


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





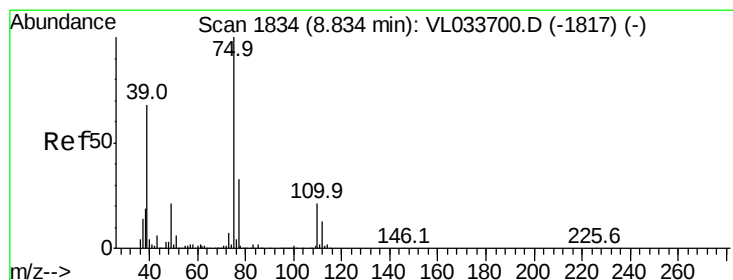
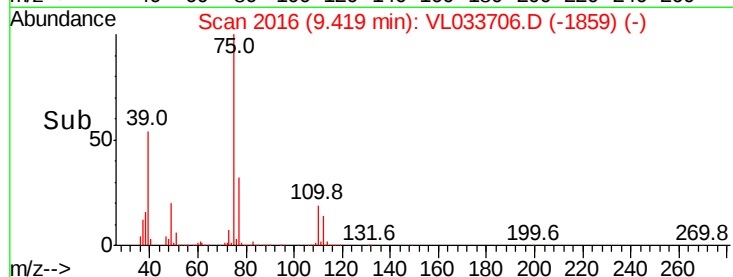
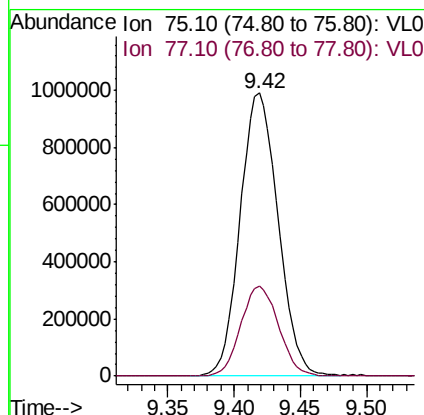
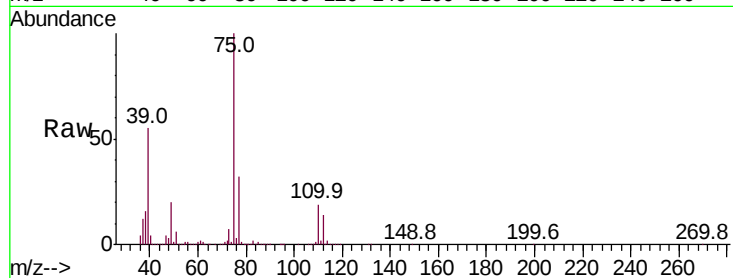
#45
t-1,3-Dichloropropene
Concen: 17.938 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 75 Resp: 1973982
Ion Ratio Lower Upper
75 100
77 32.0 24.4 36.6

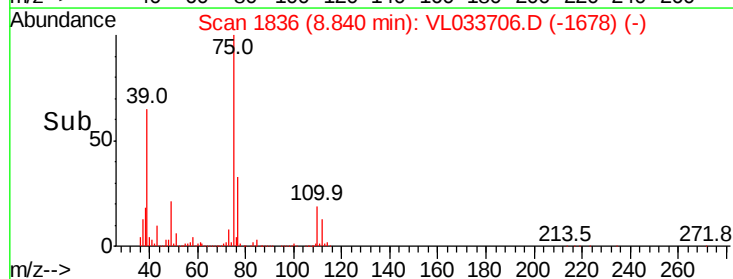
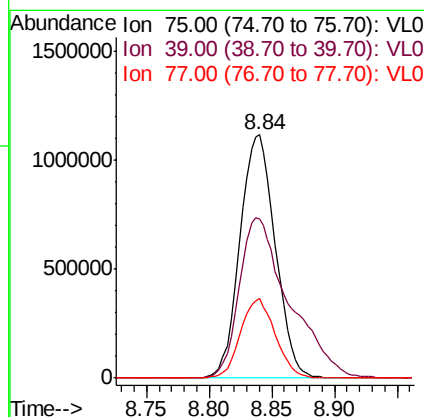
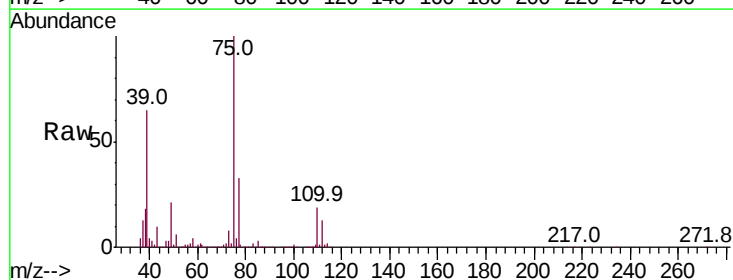
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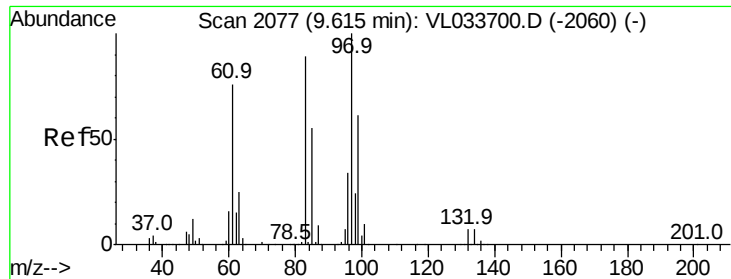
MMDadoda
5/20/2019 12:05:25 PM



#46
cis-1,3-Dichloropropene
Concen: 16.017 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 75 Resp: 2190967
Ion Ratio Lower Upper
75 100
39 65.3 54.4 81.6
77 32.7 26.6 39.8





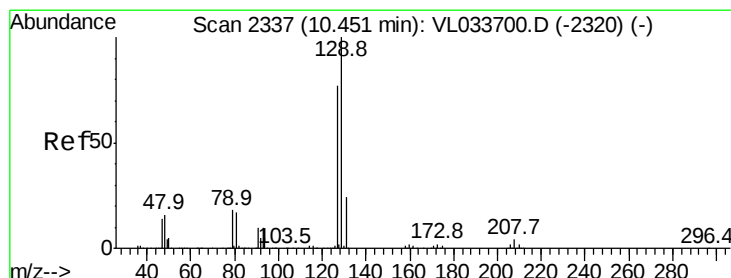
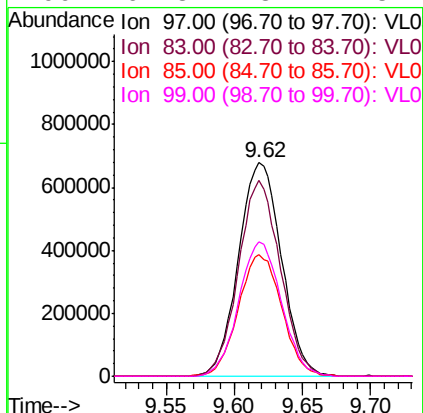
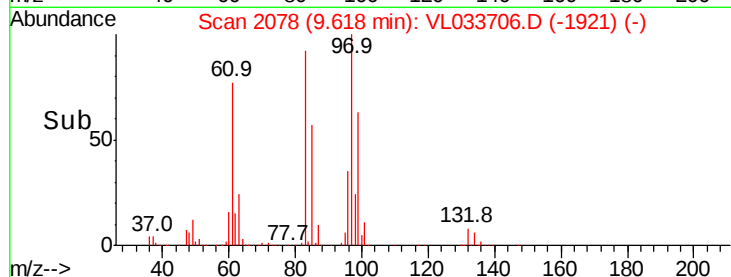
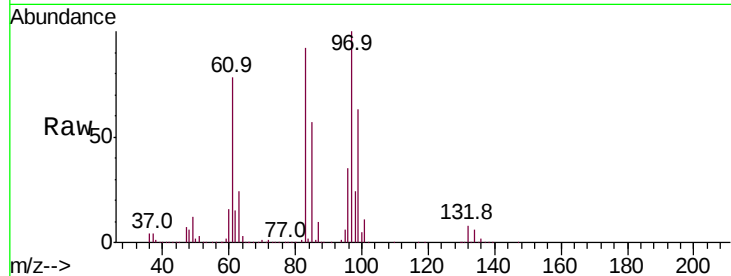
#47
 1,1,2-Trichloroethane
 Concen: 14.613 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.7	70.8	106.2
85	56.9	43.7	65.5
99	62.8	48.7	73.1

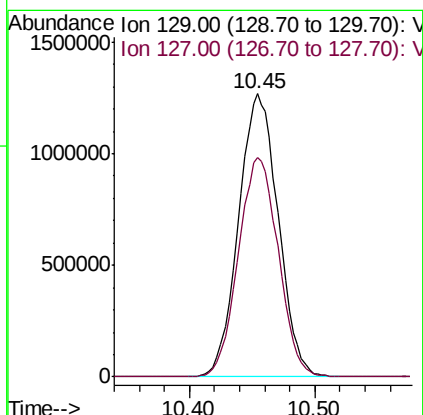
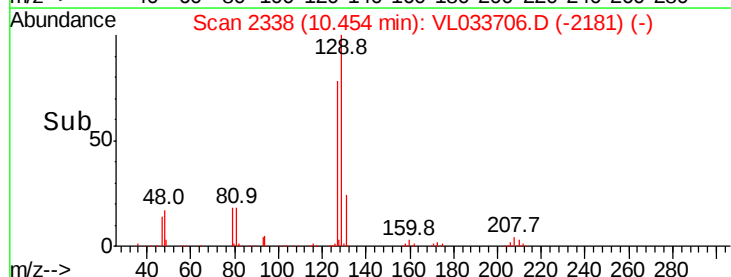
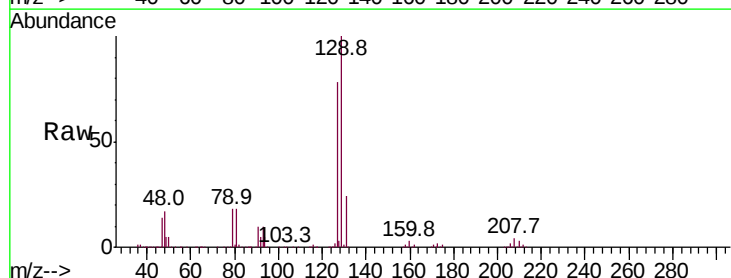
Manual Integrations
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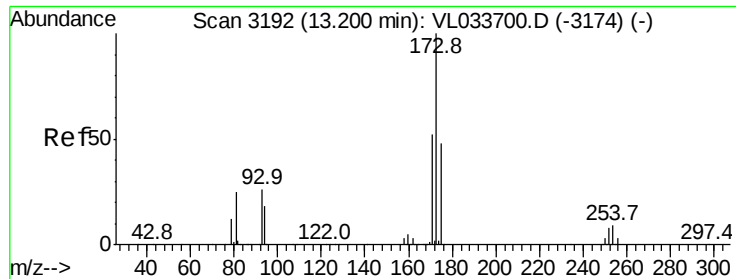
MMDadoda
 5/20/2019 12:05:25 PM



#48
 Dibromochloromethane
 Concen: 16.094 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	116.0





#49

Bromoform

Concen: 16.889 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2494987

Ion Ratio Lower Upper

173 100

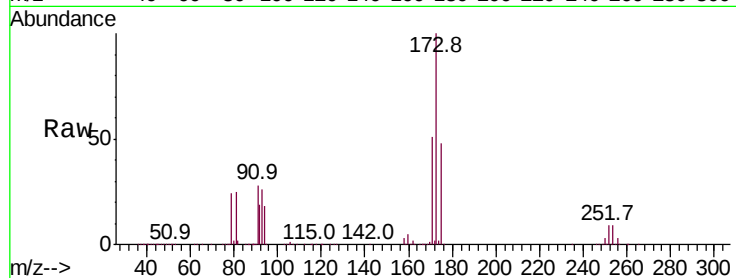
175 48.6 38.6 58.0

171 51.8 41.5 62.3

Manual Integrations
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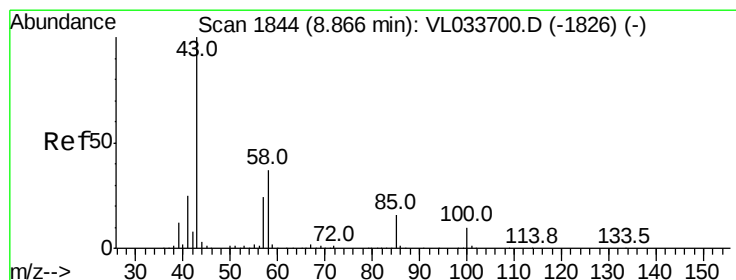
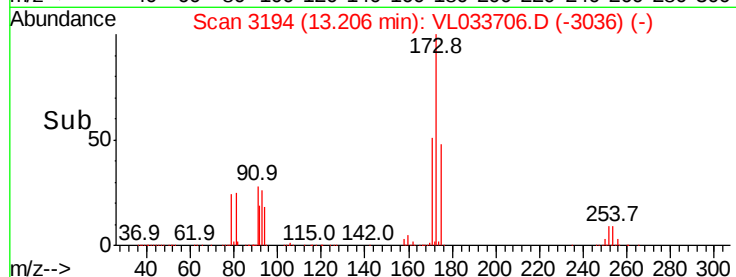
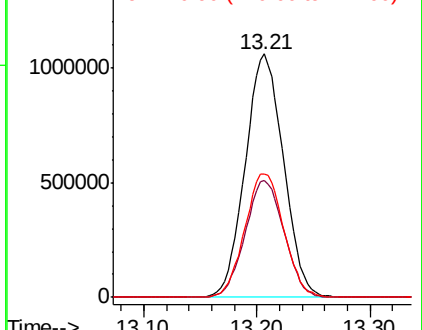
5/20/2019 12:05:25 PM



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: 14.802 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033706.D

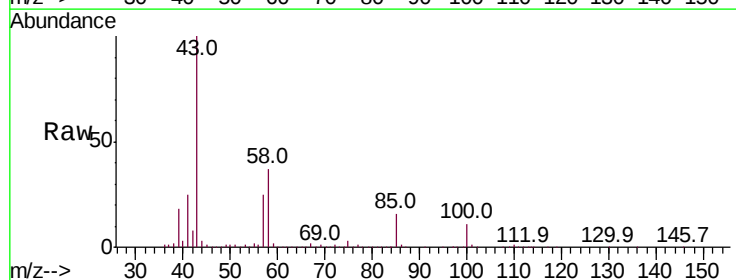
Acq: 17 May 2019 5:53

Tgt Ion: 43 Resp: 3783217

Ion Ratio Lower Upper

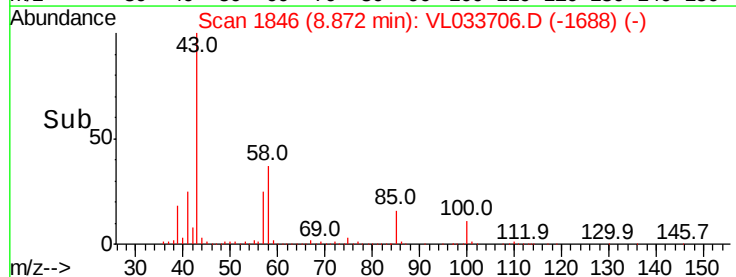
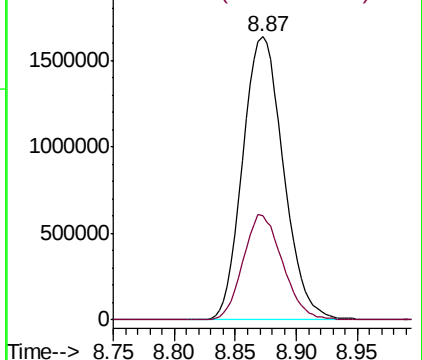
43 100

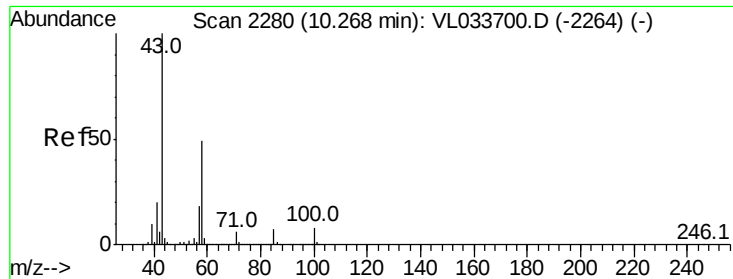
58 36.2 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.005 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3185024

Ion Ratio Lower Upper

43 100

58 48.7 38.7 58.1

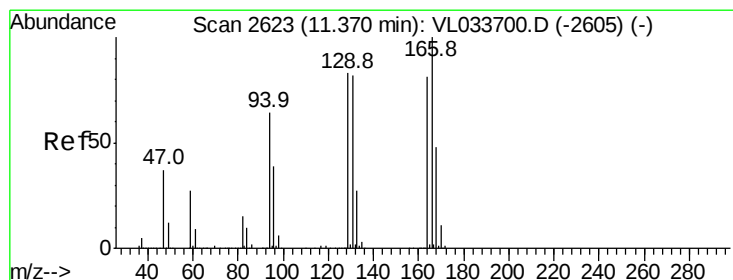
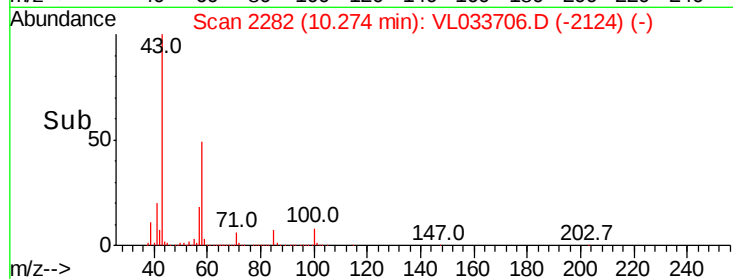
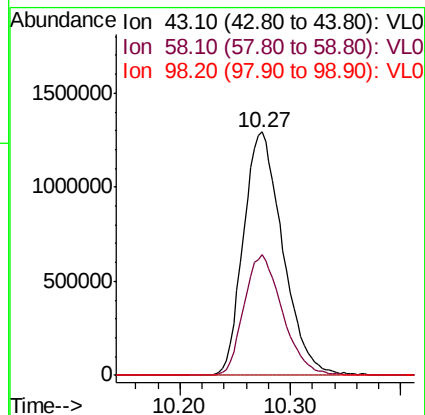
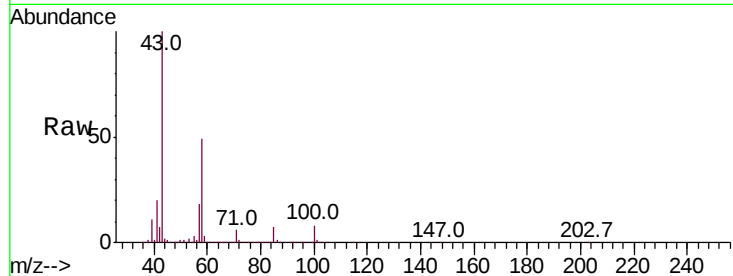
98 0.2 0.2 0.4#

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#52

Tetrachloroethene

Concen: 15.918 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion: 164 Resp: 1340273

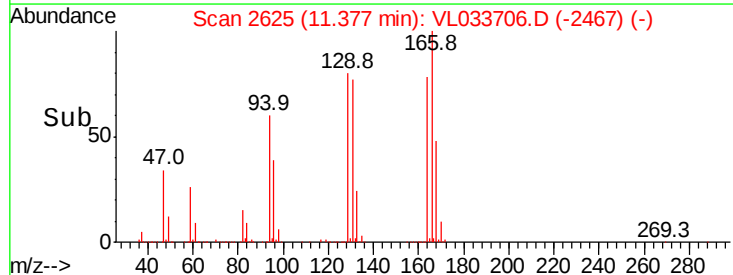
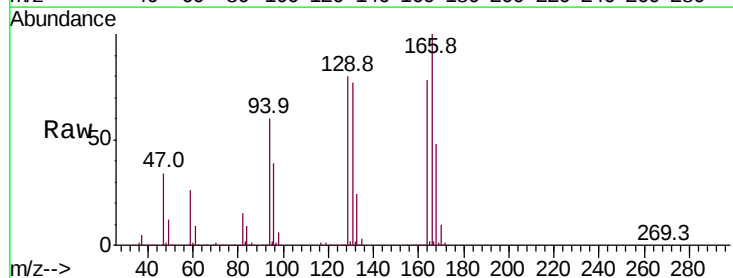
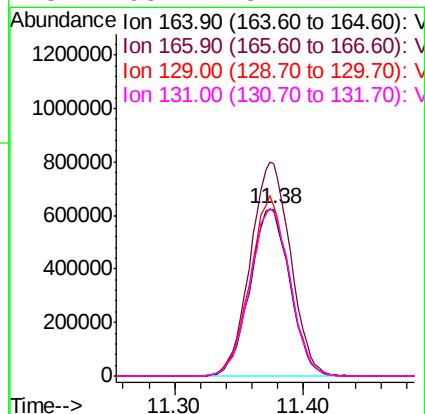
Ion Ratio Lower Upper

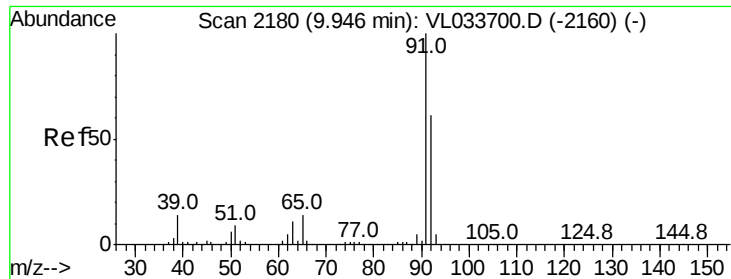
164 100

166 127.5 98.9 148.3

129 102.2 81.8 122.6

131 98.2 81.1 121.7





#53

Toluene

Concen: 16.149 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4154497

Ion Ratio Lower Upper

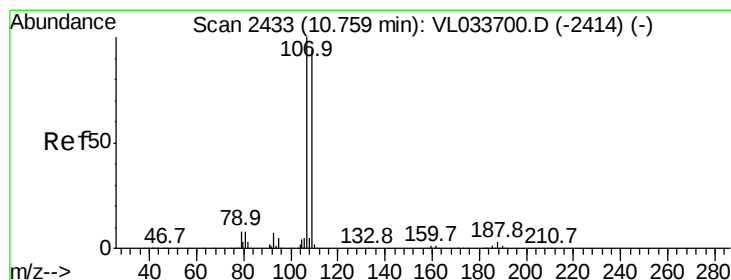
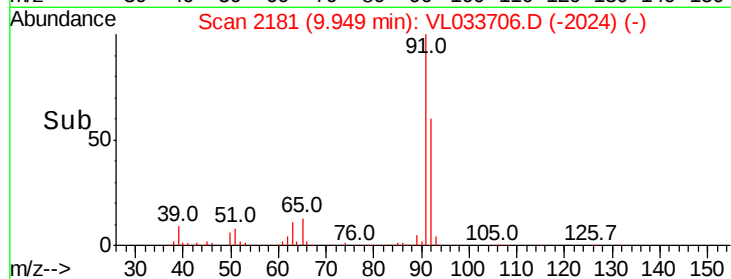
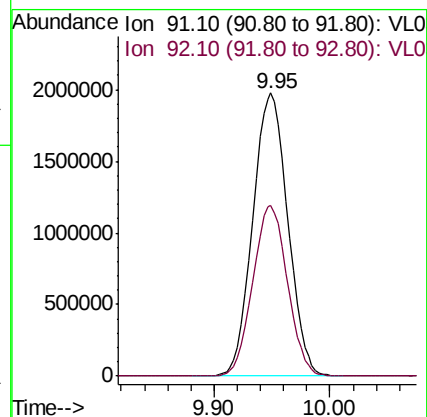
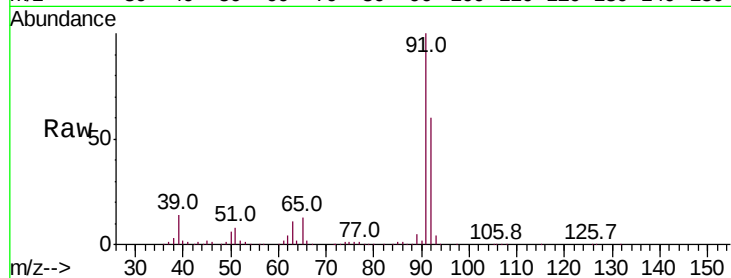
91 100

92 59.8 47.6 71.4

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 15.571 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033706.D

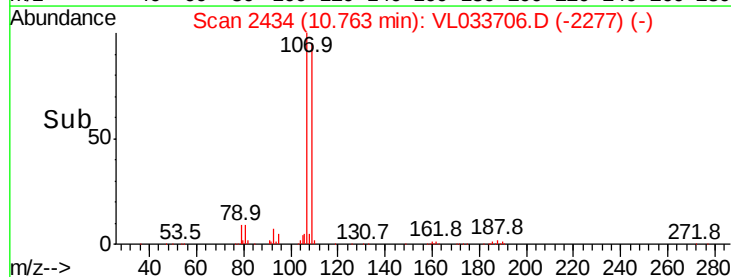
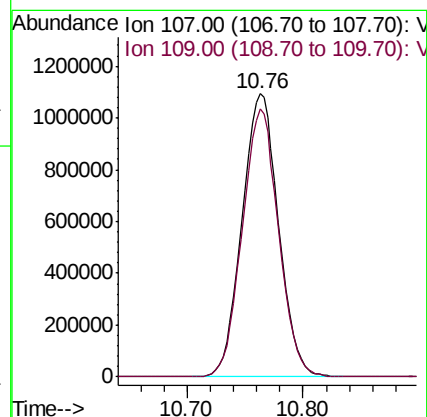
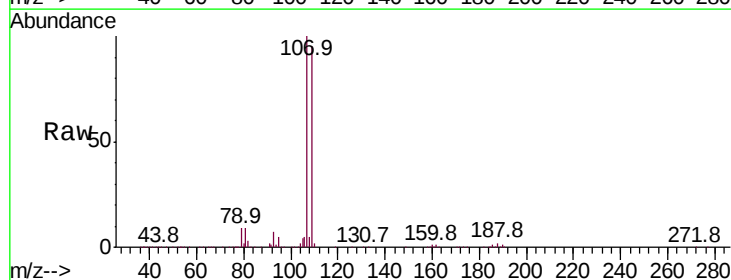
Acq: 17 May 2019 5:53

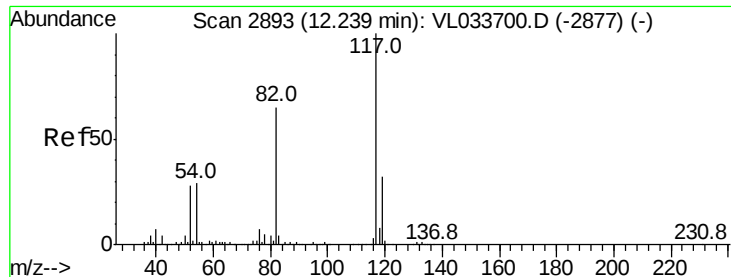
Tgt Ion: 107 Resp: 2389134

Ion Ratio Lower Upper

107 100

109 94.6 75.2 112.8





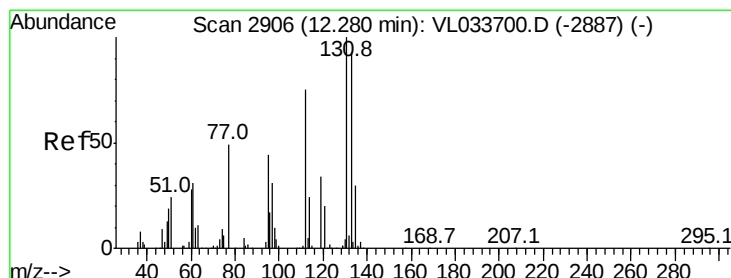
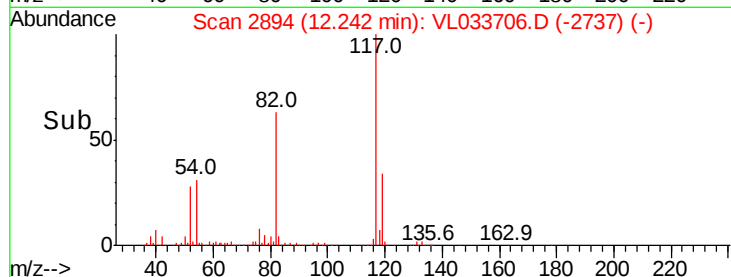
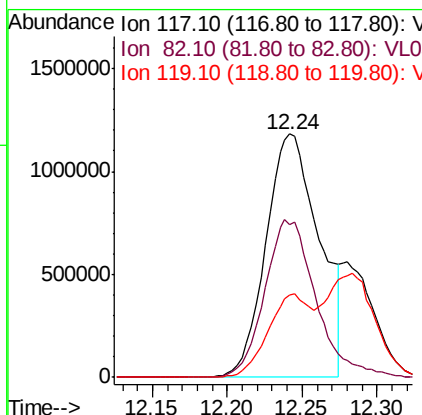
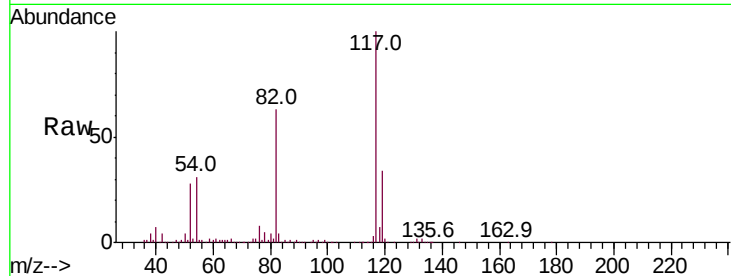
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2918888
Ion Ratio Lower Upper
117 100
82 62.5 49.4 74.0
119 0.0 24.9 37.3#

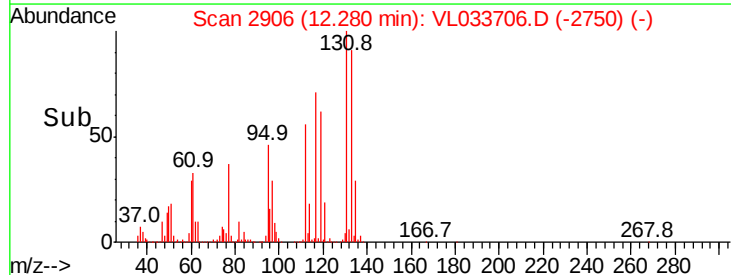
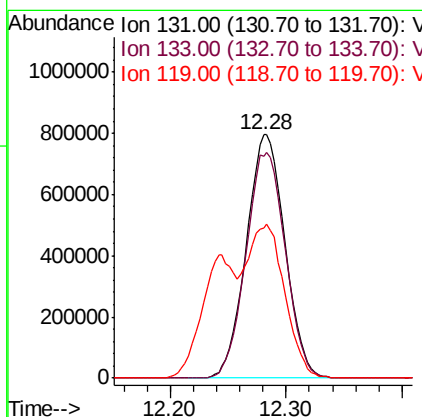
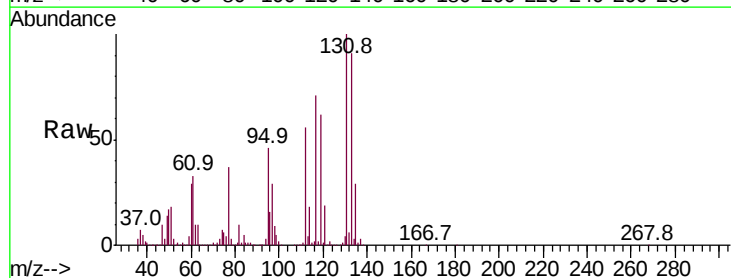
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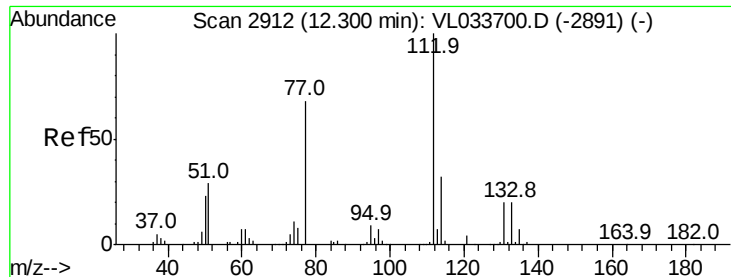
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.582 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:131 Resp: 1843642
Ion Ratio Lower Upper
131 100
133 94.7 76.6 114.8
119 107.1 49.0 73.4#





#57

Chlorobenzene

Concen: 13.235 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 3202998

Ion Ratio Lower Upper

112 100

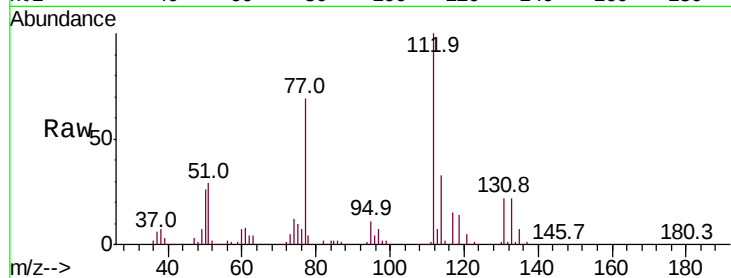
77 69.4 55.4 83.0

114 33.3 29.3 35.8

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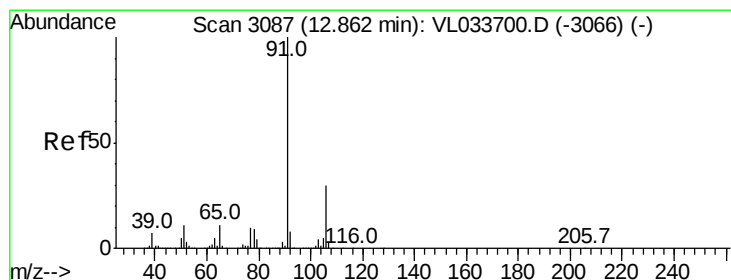
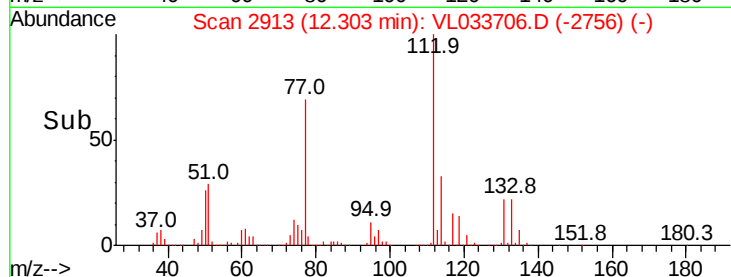
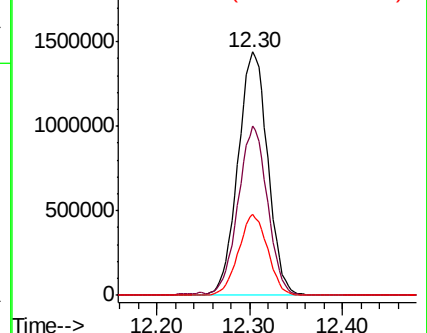
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 14.834 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033706.D

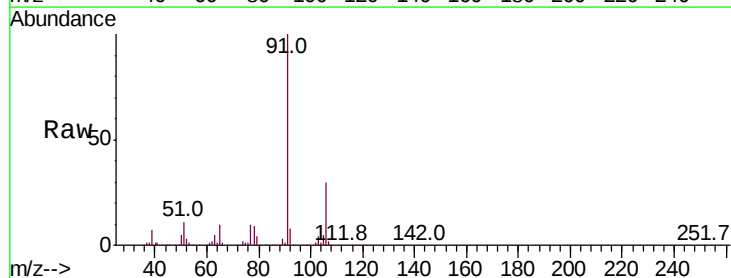
Acq: 17 May 2019 5:53

Tgt Ion: 91 Resp: 5702412

Ion Ratio Lower Upper

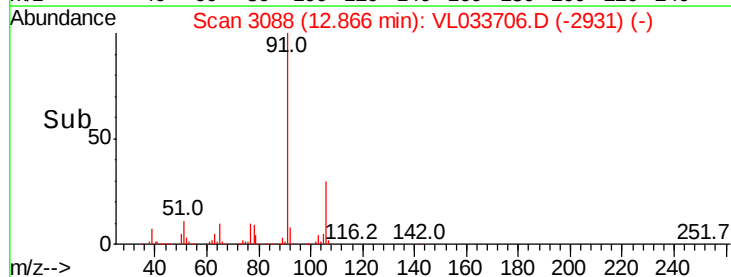
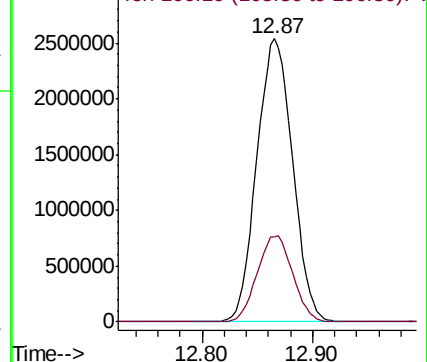
91 100

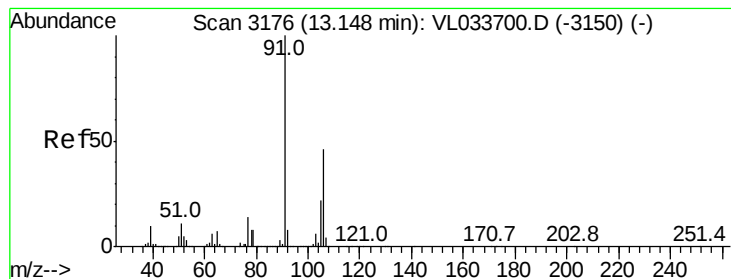
106 30.1 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 28.194 ppbv m

RT: 13.15 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 91 Resp: 9549231

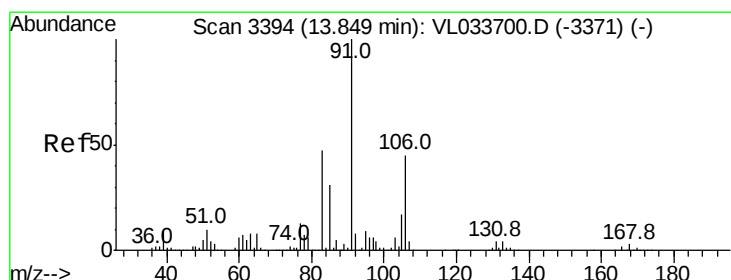
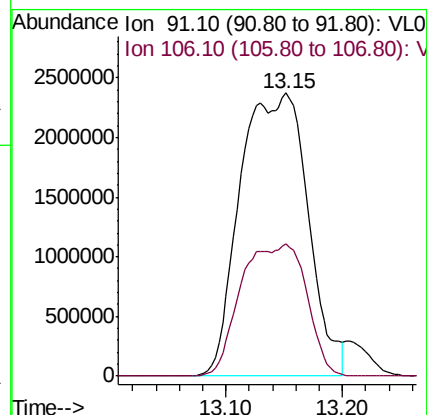
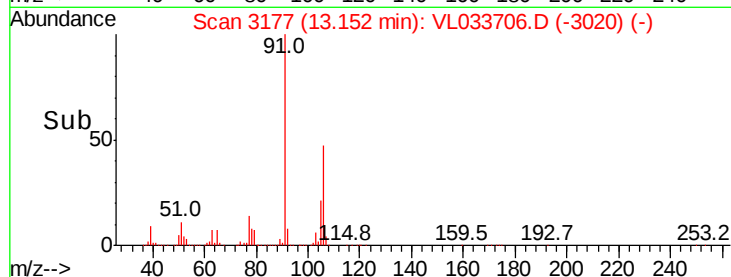
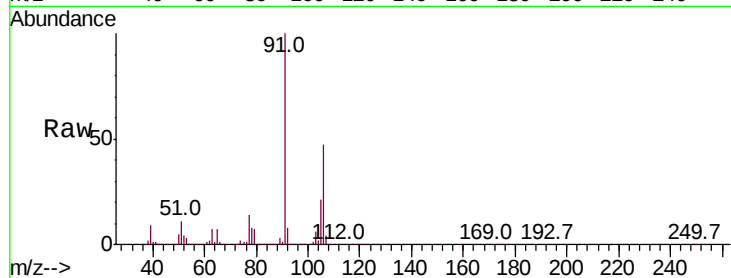
Ion Ratio Lower Upper

91 100

106 45.3 35.8 53.6

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#60

o-Xylene

Concen: 14.088 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VL033706.D

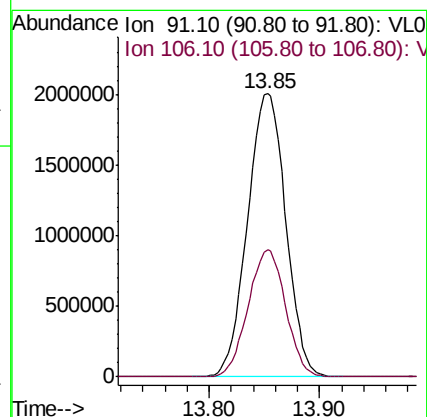
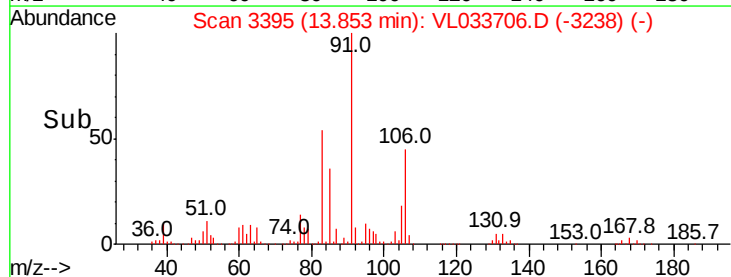
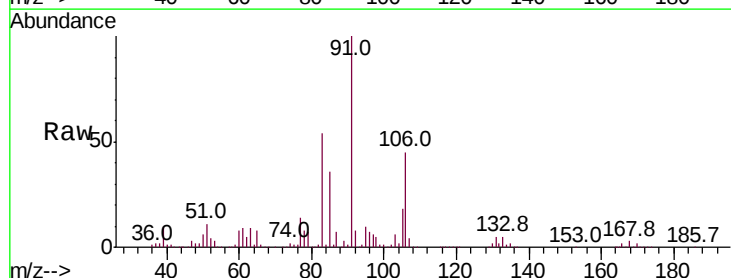
Acq: 17 May 2019 5:53

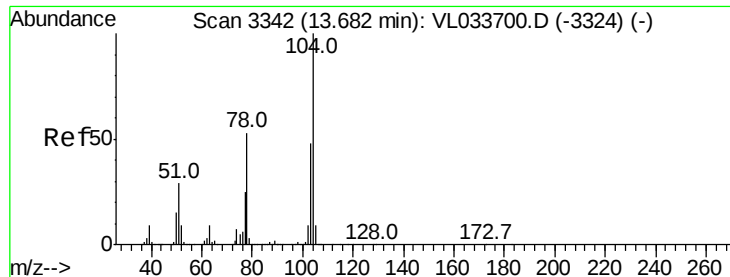
Tgt Ion: 91 Resp: 4815774

Ion Ratio Lower Upper

91 100

106 44.1 21.6 64.8





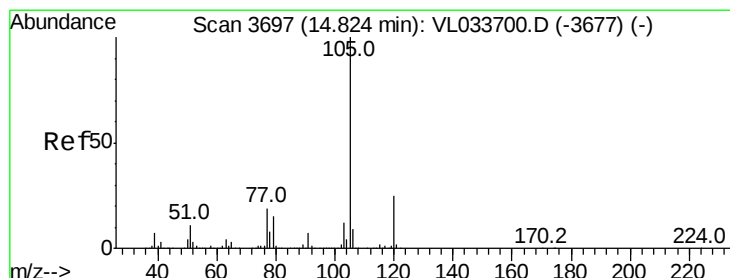
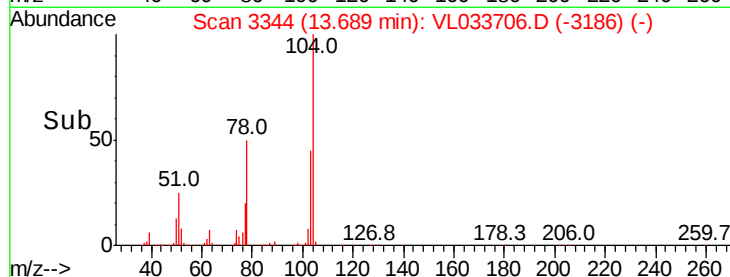
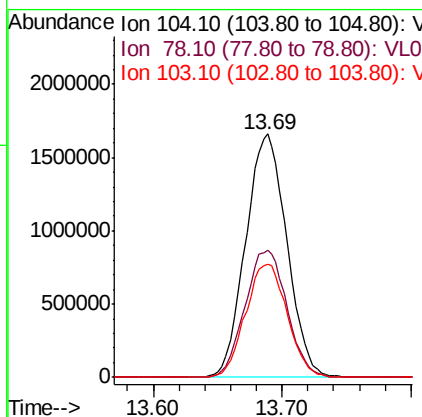
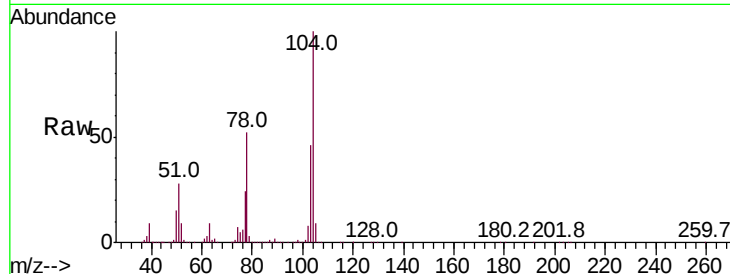
#61
Stvrene
Concen: 16.172 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.3	42.6	64.0
103	47.2	37.8	56.6

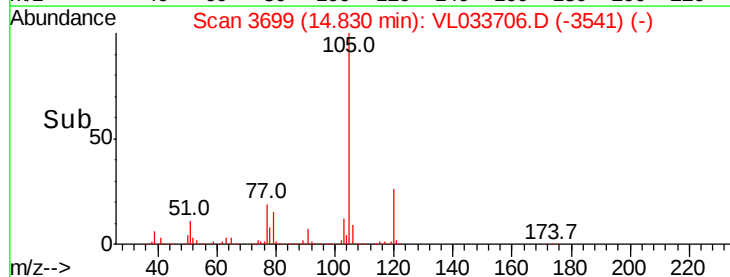
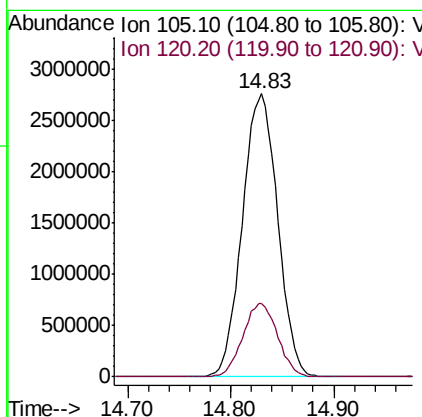
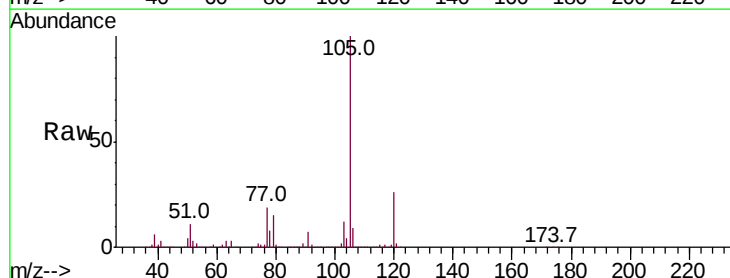
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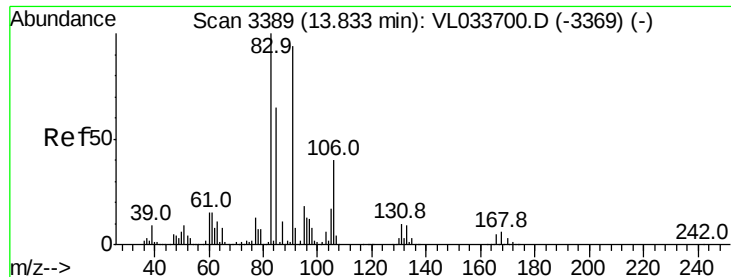
MMDadoda
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#62
Isopropylbenzene
Concen: 14.028 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.1	30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 13.535 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3356400

Ion Ratio Lower Upper

83 100

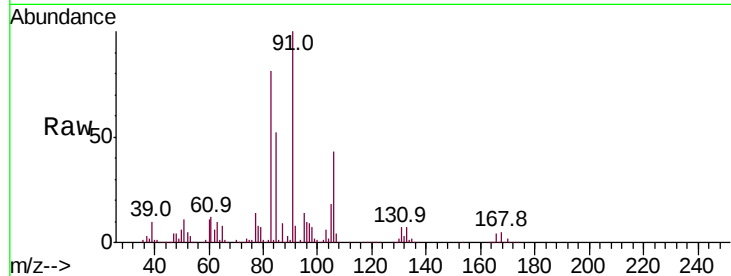
131 9.5 4.8 14.3

85 65.0 32.3 96.9

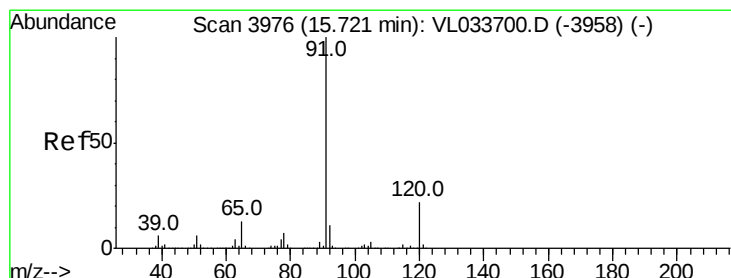
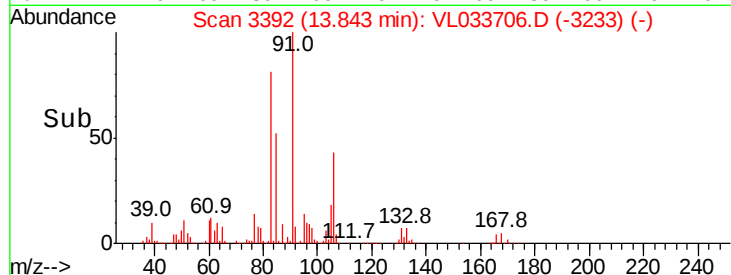
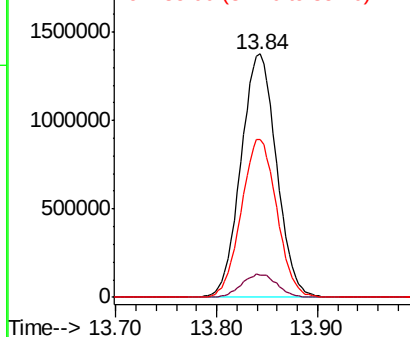
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 14.425 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. 0.01 min

Lab File: VL033706.D

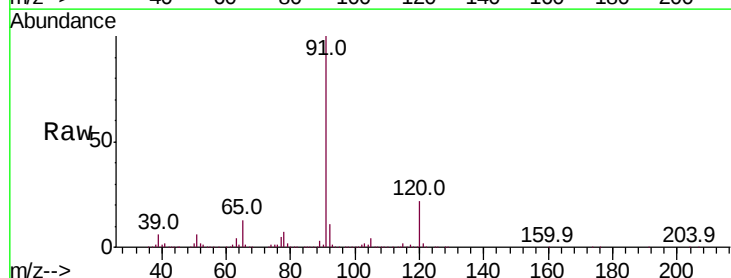
Acq: 17 May 2019 5:53

Tgt Ion:120 Resp: 1739977

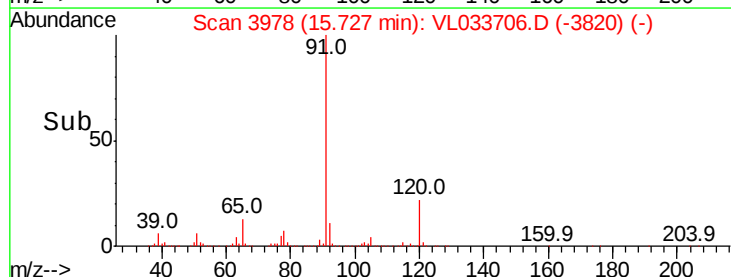
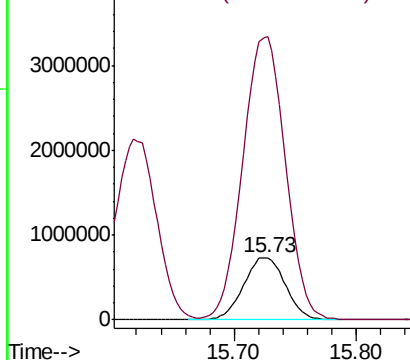
Ion Ratio Lower Upper

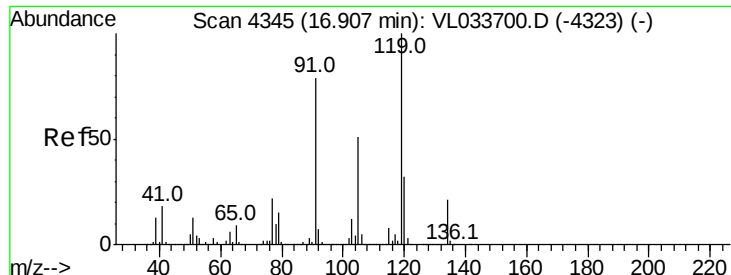
120 100

91 464.1 379.1 568.7



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





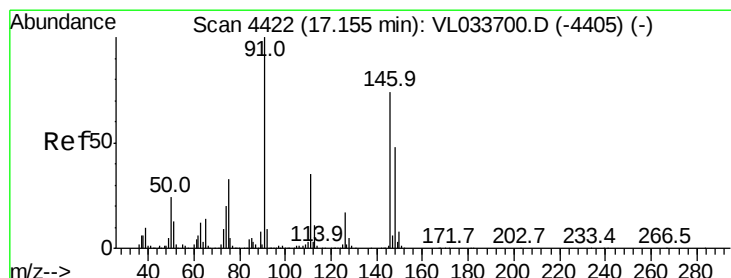
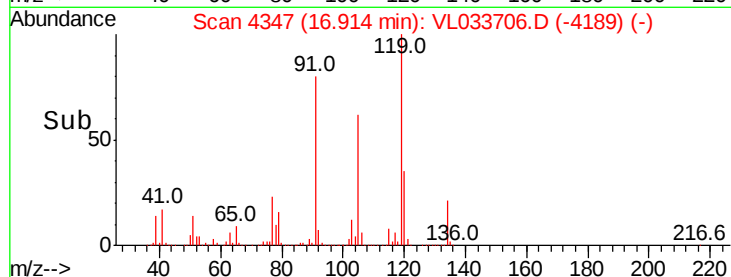
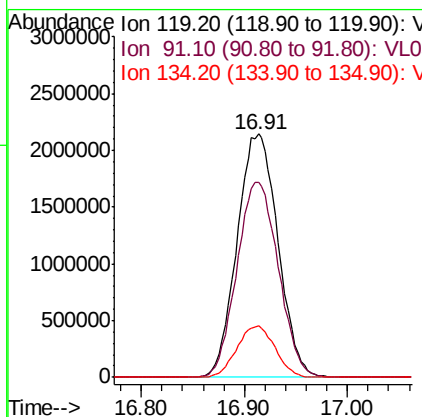
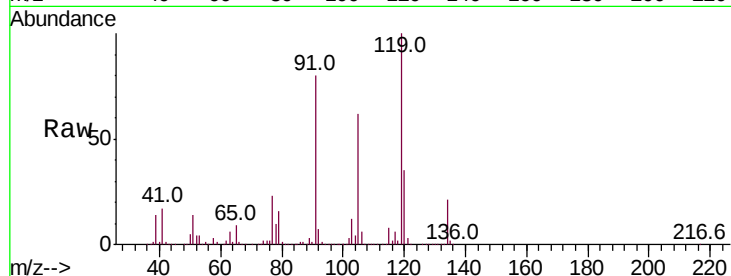
#65
tert-Butylbenzene
Concen: 13.769 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	81.5	65.3	97.9
134	19.8	15.7	23.5

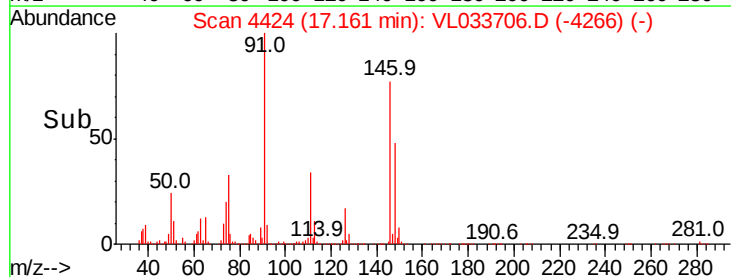
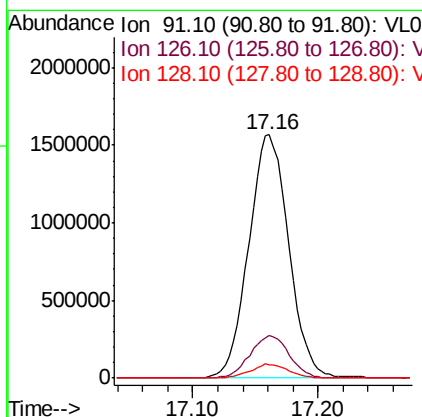
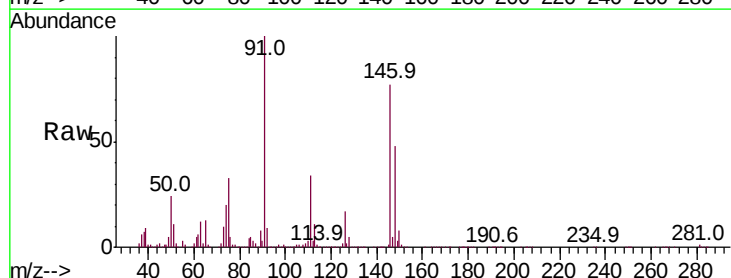
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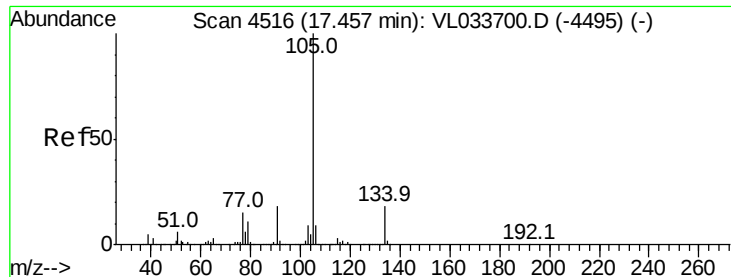
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#66
Benzyl Chloride
Concen: 17.638 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.4	13.5	20.3
128	5.5	4.3	6.5





#67

sec-Butylbenzene

Concen: 13.731 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8197568

Ion Ratio Lower Upper

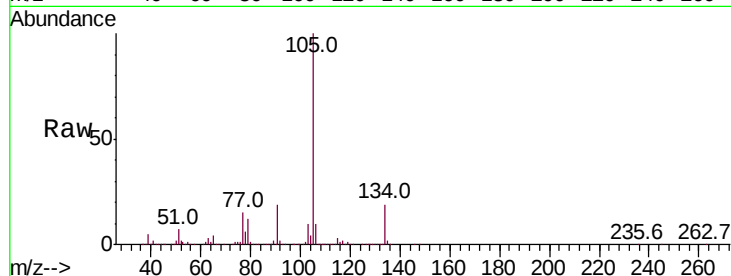
105 100

134 18.6 14.6 22.0

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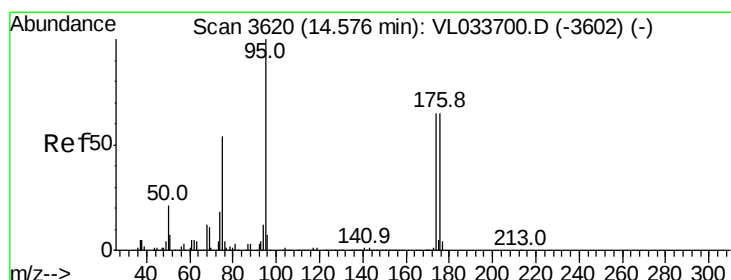
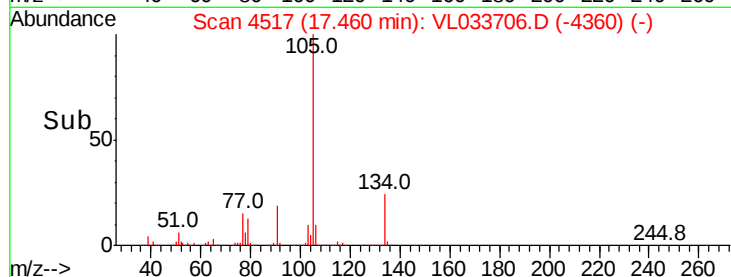
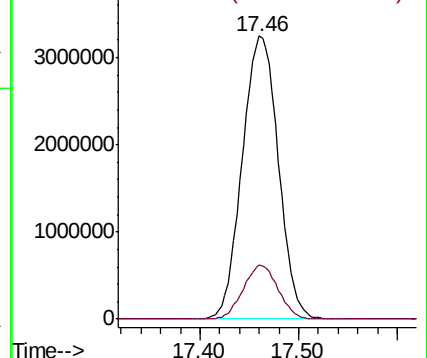
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.480 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

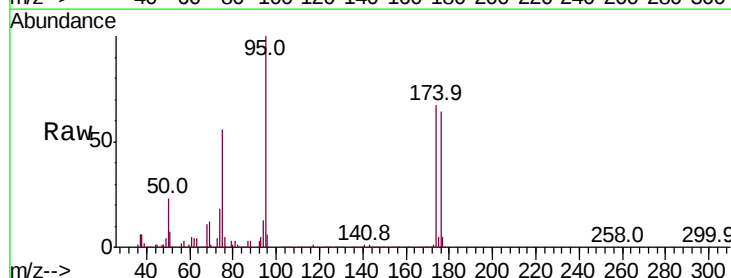
Tgt Ion: 95 Resp: 2268330

Ion Ratio Lower Upper

95 100

174 67.0 53.9 80.9

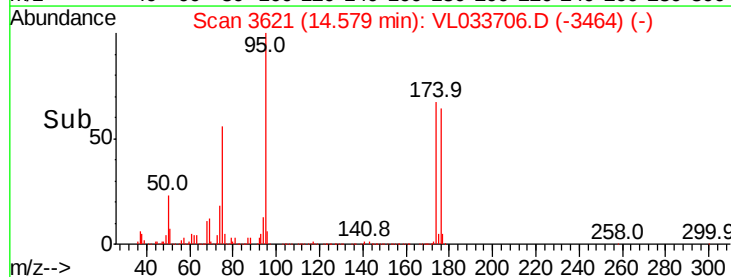
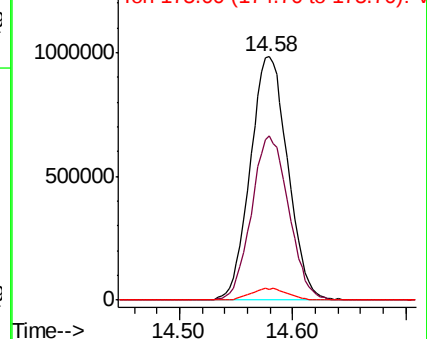
175 4.8 3.8 5.8

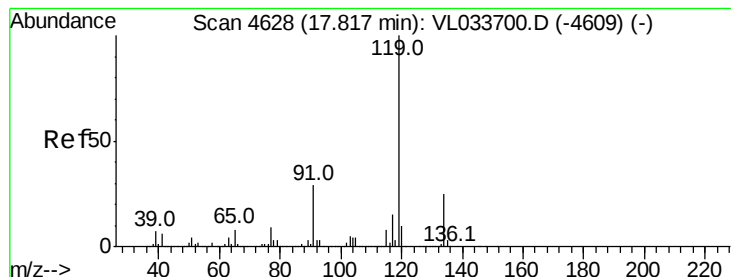


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 14.218 ppbv

RT: 17.82 min Scan# 4629

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 7001600

Ion Ratio Lower Upper

119 100

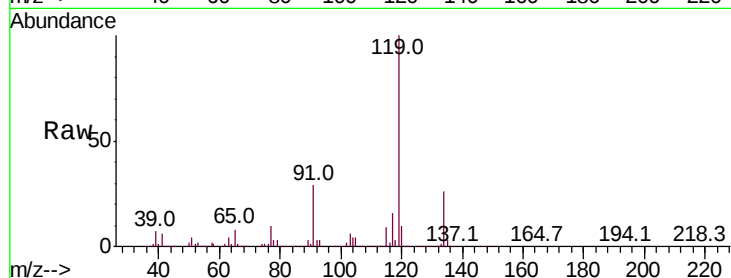
134 25.5 20.3 30.5

91 29.3 23.1 34.7

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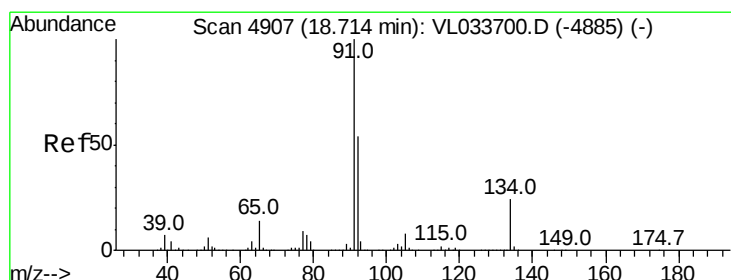
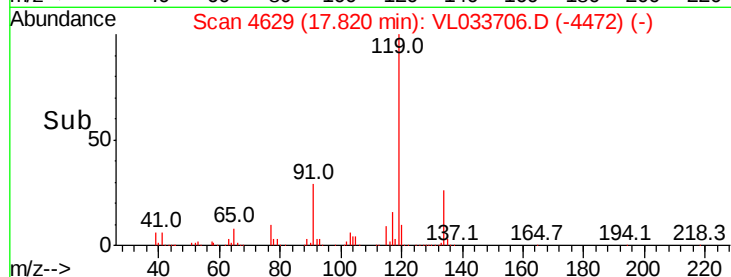
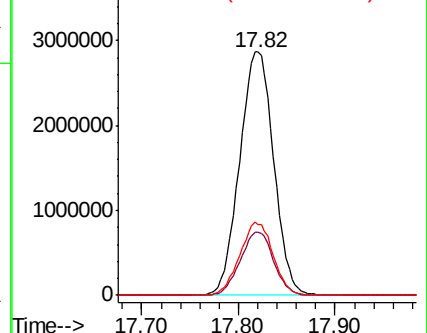
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 14.275 ppbv

RT: 18.71 min Scan# 4907

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

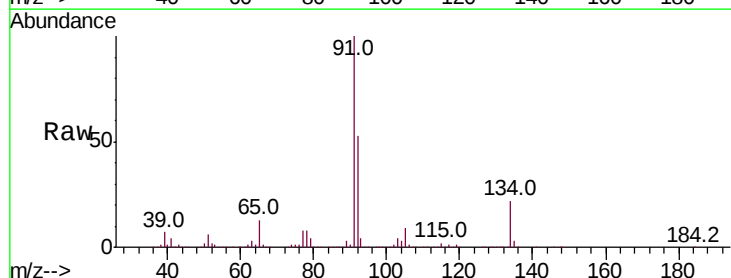
Tgt Ion: 91 Resp: 7428221

Ion Ratio Lower Upper

91 100

92 54.0 42.6 63.8

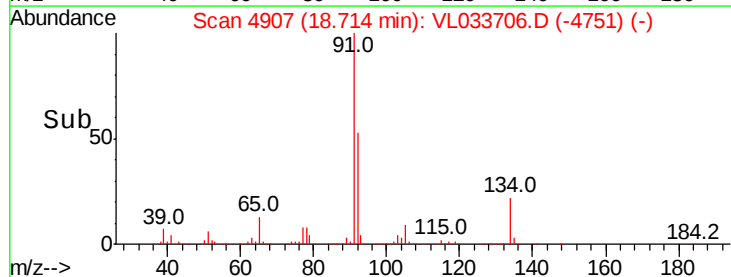
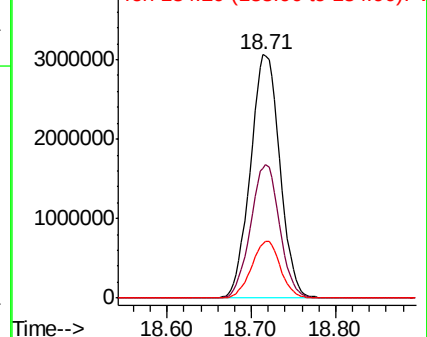
134 22.9 18.1 27.1

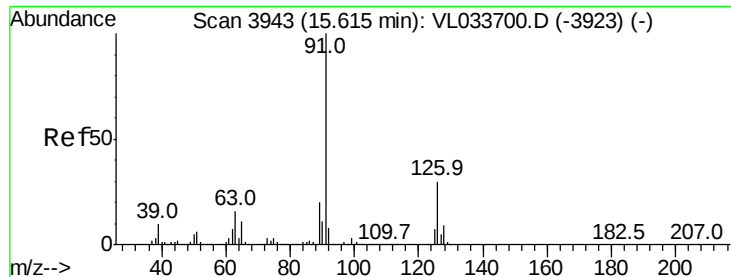


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 14.547 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5020756

Ion Ratio Lower Upper

91 100

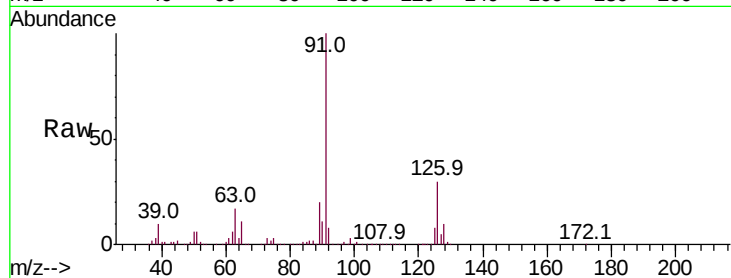
126 30.2 12.0 47.8

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

4000000

3000000

2000000

1000000

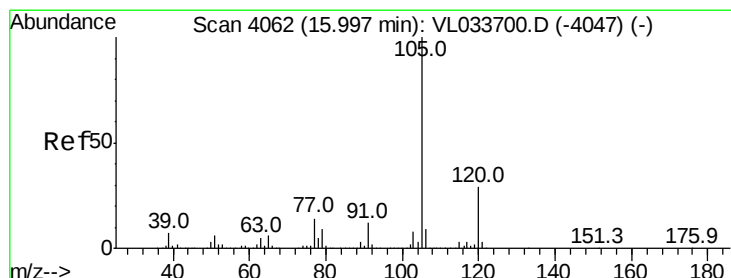
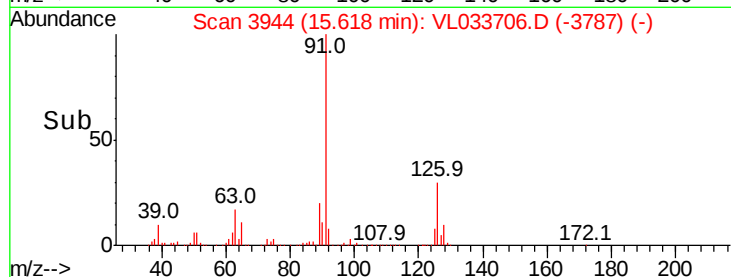
0

15.50

15.60

15.70

Time-->



#72

4-Ethyltoluene

Concen: 14.487 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion:105 Resp: 5815207

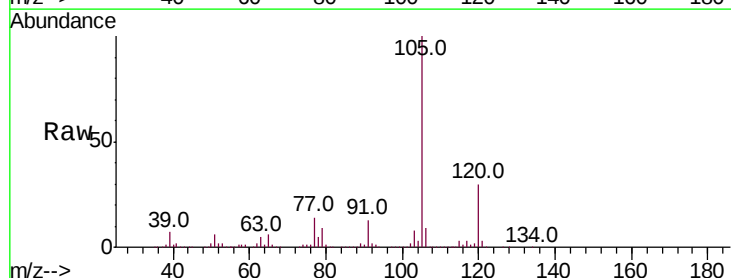
Ion Ratio Lower Upper

105 100

120 29.3 23.1 34.7

91 13.1 10.4 15.6

77 14.2 11.0 16.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

2000000

1000000

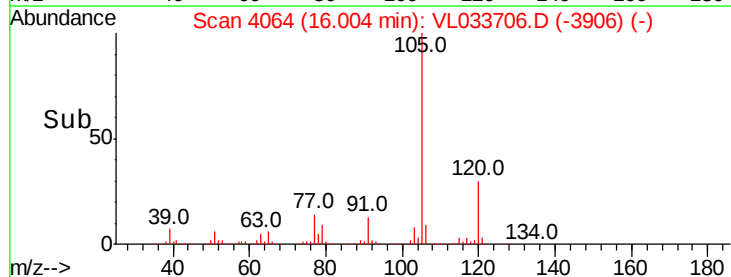
0

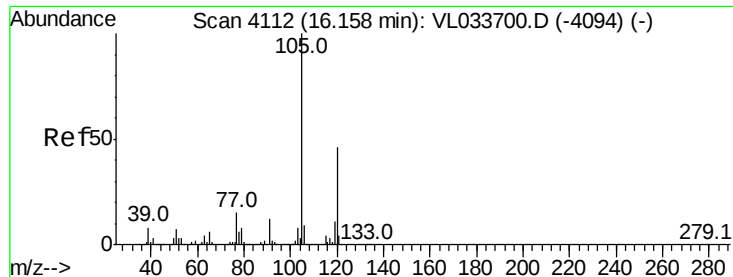
15.90

16.00

16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 14.234 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5517335

Ion Ratio Lower Upper

105 100

120 46.3

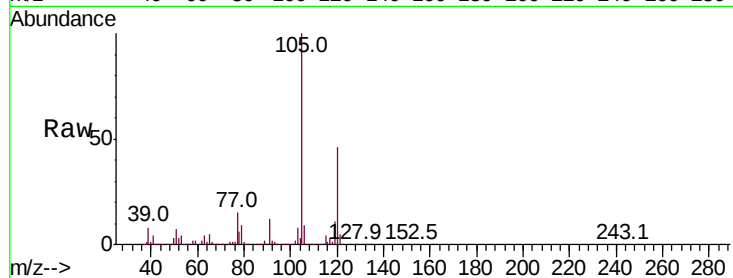
37.0 55.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.16

2500000

2000000

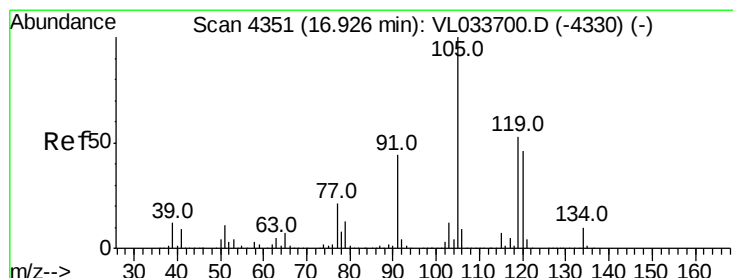
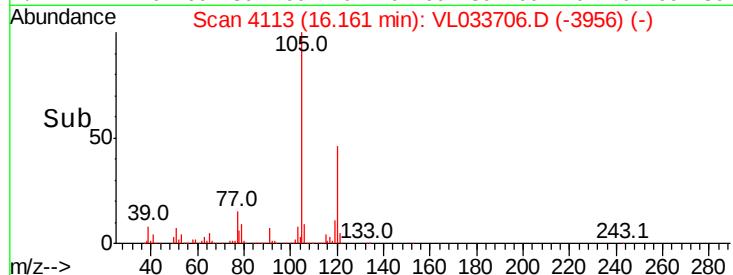
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 13.226 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Tgt Ion:105 Resp: 5715024

Ion Ratio Lower Upper

105 100

120 46.9

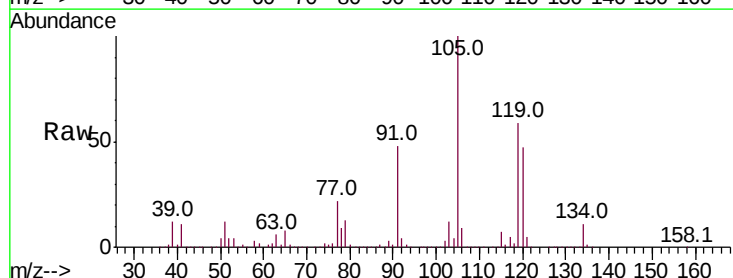
36.8 55.2

91 48.4

35.4 53.0

77 21.6

16.8 25.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V

16.93

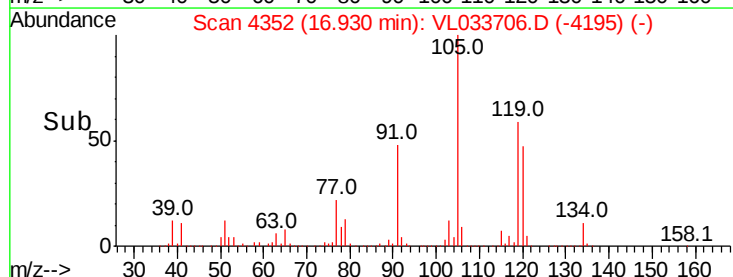
3000000

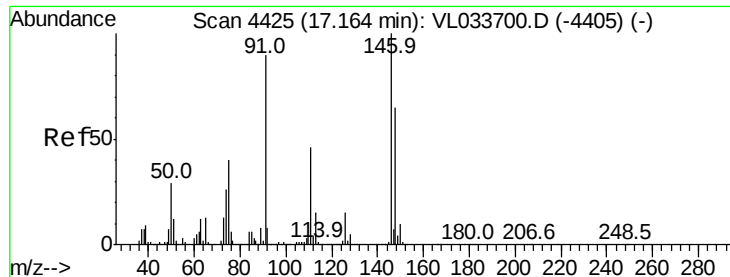
2000000

1000000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 13.019 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3386091

Ion Ratio Lower Upper

146 100

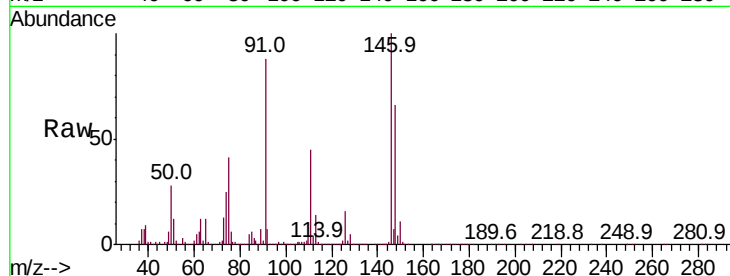
111 45.3 22.9 68.8

148 63.9 32.0 96.2

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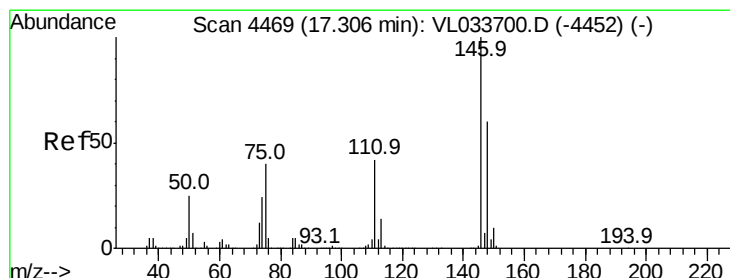
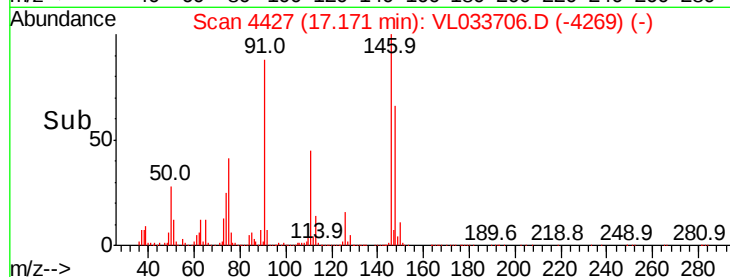
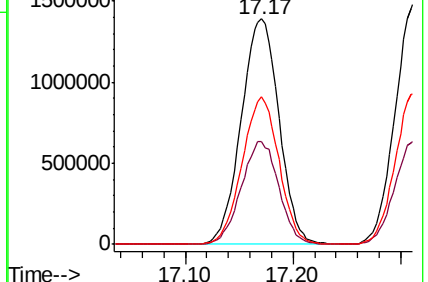
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 13.856 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

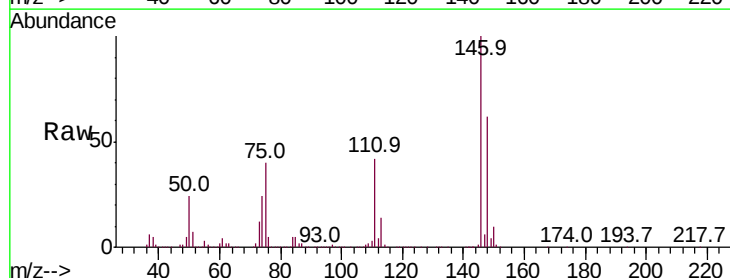
Tgt Ion:146 Resp: 3419836

Ion Ratio Lower Upper

146 100

111 43.6 21.9 65.8

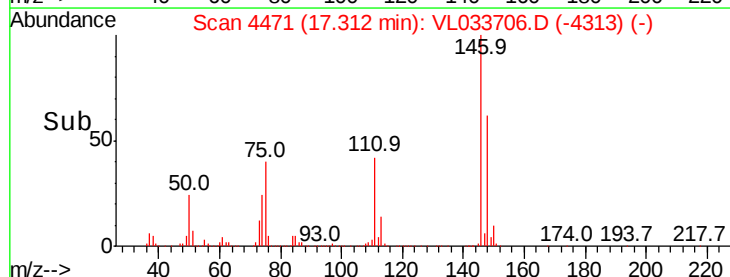
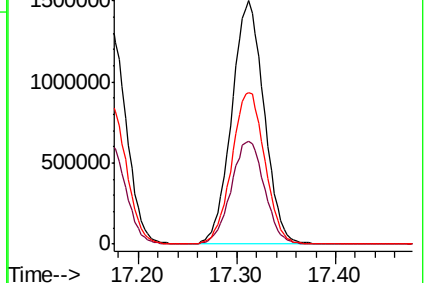
148 63.9 32.1 96.3

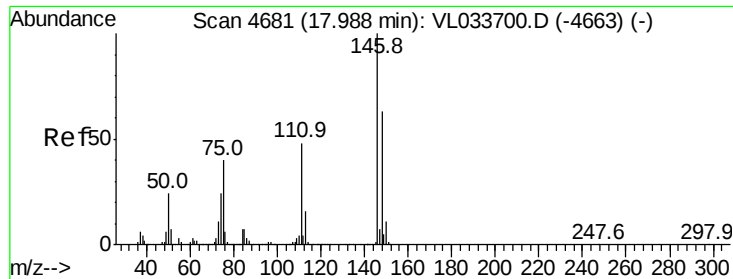


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 13.566 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3275090

Ion Ratio Lower Upper

146 100

111 46.9 23.5 70.5

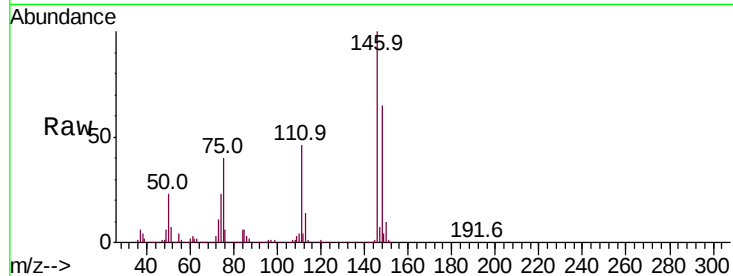
148 64.2 32.1 96.3

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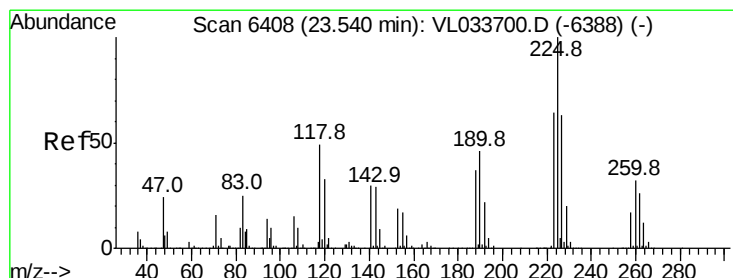
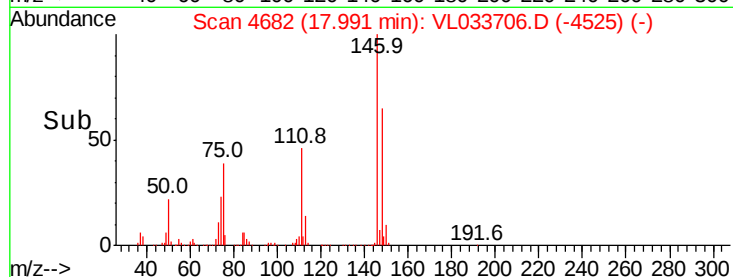
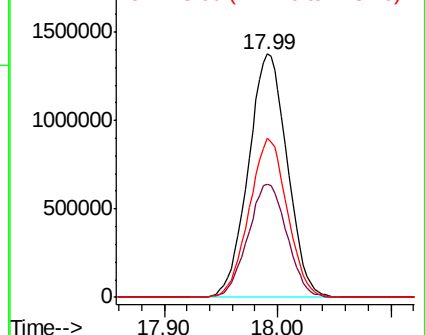
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.783 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

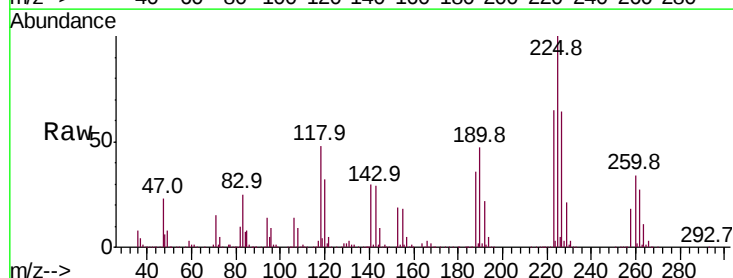
Tgt Ion:225 Resp: 2255882

Ion Ratio Lower Upper

225 100

223 63.2 50.2 75.4

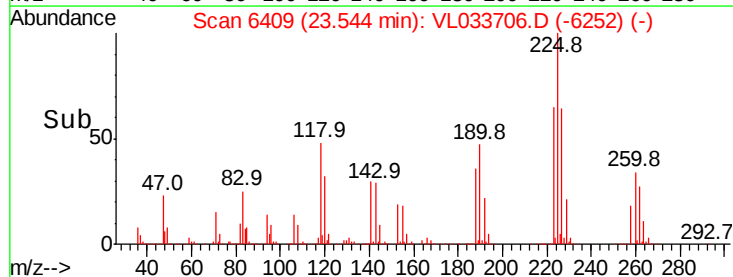
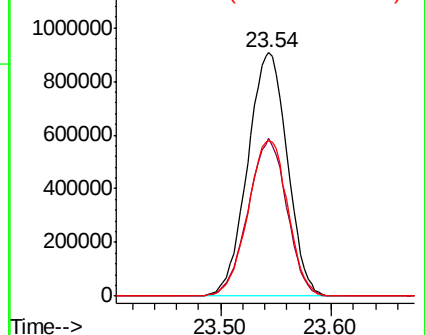
227 64.1 50.7 76.1

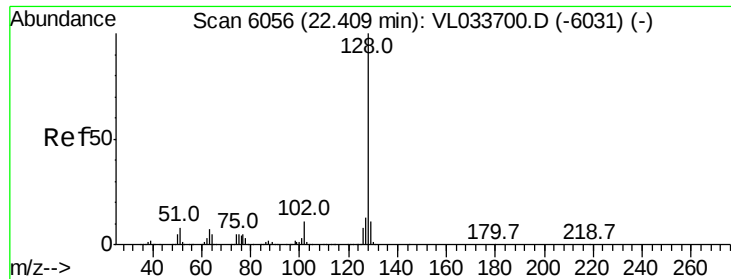


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 15.291 ppbv

RT: 22.41 min Scan# 6058

Delta R.T. 0.01 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 6036994

Ion Ratio Lower Upper

128 100

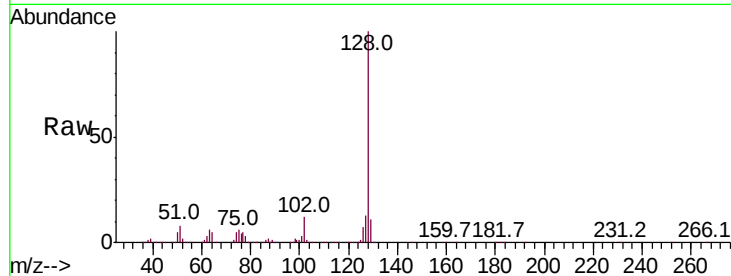
127 13.4 10.6 16.0

129 11.4 8.9 13.3

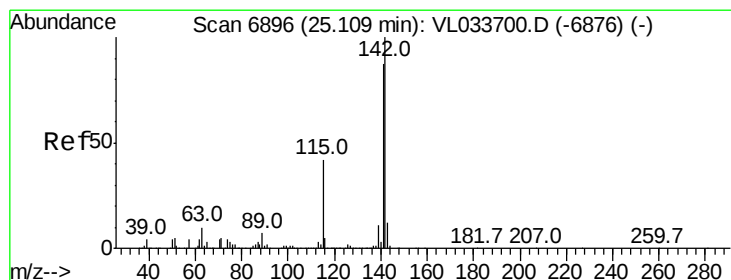
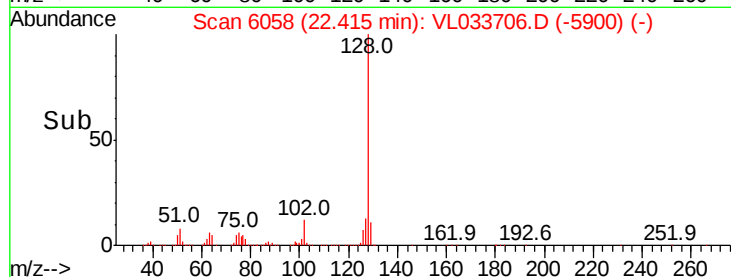
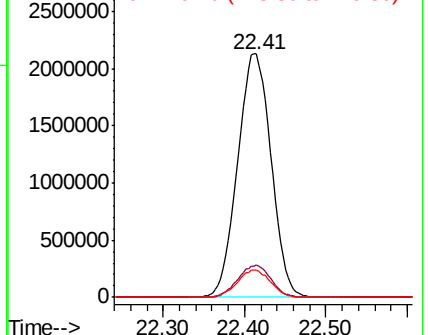
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 17.474 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033706.D

Acq: 17 May 2019 5:53

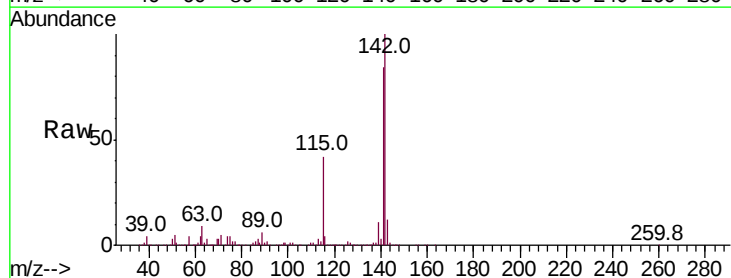
Tgt Ion:142 Resp: 2633981

Ion Ratio Lower Upper

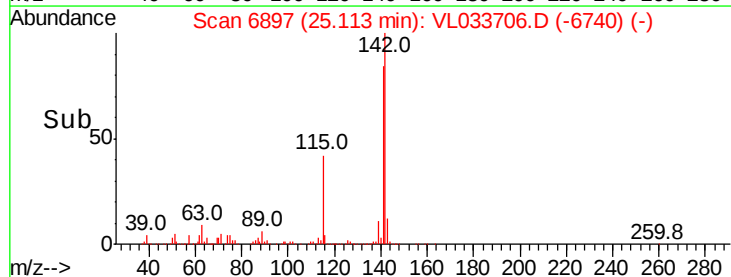
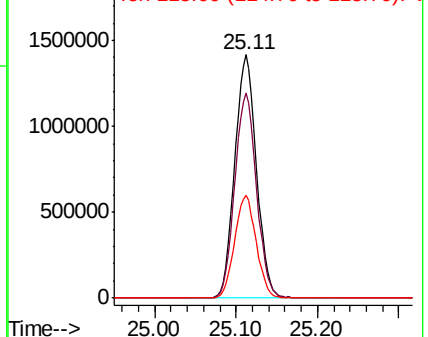
142 100

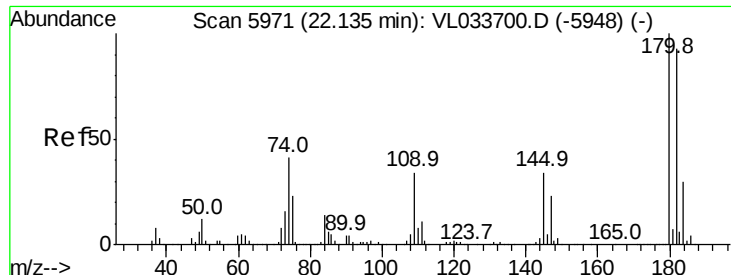
141 84.6 67.2 100.8

115 42.2 34.1 51.1



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





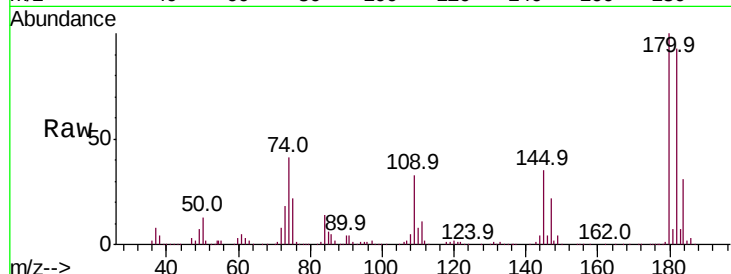
#81
 1,2,4-Trichlorobenzene
 Concen: 14.150 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033706.D
 Acq: 17 May 2019 5:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
184	30.6	24.6	37.0

Manual Integrations
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Abundance Ion 180.00 (179.70 to 180.70): V
 1500000 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

