

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031422.D
 Acq On : 22 Jan 2018 18:33
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:16 PM

Quant Time: Jan 23 06:31:39 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1278163	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3000340	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3328154m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2558232	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.18	85	2301485	12.73	ppbv	99
3) Chlorodifluoromethane	3.11	51	1287642	7.62	ppbv	99
4) Chloromethane	3.27	50	676901	8.97	ppbv	100
5) Vinyl Chloride	3.40	62	683803	9.43	ppbv	99
6) Bromomethane	3.63	94	479452	9.01	ppbv	99
7) Chloroethane	3.71	64	274843	8.87	ppbv	96
8) Dichlorotetrafluoroethane	3.32	85	1803952	8.95	ppbv	99
9) Propene	3.14	41	557972	9.42	ppbv	99
10) Heptane	8.41	43	1701156	9.23	ppbv	99
11) Trichlorofluoromethane	4.13	101	2126331	8.72	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1357771	8.88	ppbv	100
13) Ethanol	3.77	45	137645	7.73	ppbv	98
14) Bromoethene	3.90	108	564320	9.23	ppbv	100
15) Acetone	4.02	43	1375410	8.08	ppbv	99
16) 1,3-Butadiene	3.47	39	626067	8.76	ppbv	100
17) tert-Butyl alcohol	4.48	59	555795	6.71	ppbv	99
18) 1,1-Dichloroethene	4.48	96	594950	9.03	ppbv	98
19) Isopropyl Alcohol	4.14	45	859024	8.09	ppbv #	99
20) Methylene Chloride	4.54	84	554629	8.40	ppbv	96
21) Allyl Chloride	4.61	41	964849	9.44	ppbv	100
22) trans-1,2-Dichloroethene	5.10	96	639577	9.25	ppbv	99
23) Vinyl Acetate	5.29	43	1895946	9.21	ppbv	99
24) 1,1-Dichloroethane	5.23	63	1612644	8.98	ppbv	99
25) Ethyl Acetate	5.91	43	2679953	8.84	ppbv	100
26) Hexane	5.93	57	1199199	8.89	ppbv	99
27) Carbon Disulfide	4.75	76	1710866	9.65	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	1498749	9.36	ppbv	100
29) Chloroform	6.00	83	2009023	8.63	ppbv	99
30) Cyclohexane	7.40	84	992035	9.62	ppbv	99
31) cis-1,2-Dichloroethene	5.78	61	1203012	9.43	ppbv	98
32) 1,1,1-Trichloroethane	6.77	97	2119937	9.35	ppbv	99
34) 2-Butanone	5.47	43	1758180	9.26	ppbv	100
35) Carbon Tetrachloride	7.29	117	2272273	9.35	ppbv	99
36) Benzene	7.16	78	2396116	8.98	ppbv	98
37) 1,2-Dichloroethane	6.57	62	1818175	8.78	ppbv	99
38) Trichloroethene	8.13	130	1031386	9.94	ppbv	98
39) 1,2-Dichloropropane	7.90	63	914182	9.13	ppbv	98
40) 1,4-Dioxane	8.12	88	361116	8.82	ppbv	72
41) Tetrahydrofuran	6.30	42	925591	8.83	ppbv	99
42) Bromodichloromethane	8.08	83	2291723	9.23	ppbv	99
43) Methyl Methacrylate	8.30	69	968407	9.93	ppbv	99

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Quant Time: Jan 23 06:31:39 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	4160392	9.14	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	1509138	10.79	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	1749056	10.19	ppbv	98
47) 1,1,2-Trichloroethane	9.78	97	1090491	9.25	ppbv	98
48) Dibromochloromethane	10.62	129	1975240	9.42	ppbv	99
49) Bromoform	13.38	173	1541260	9.66	ppbv	99
50) 4-Methyl-2-Pentanone	9.03	43	2423667	9.48	ppbv	99
51) 2-Hexanone	10.44	43	2276999	9.34	ppbv #	99
52) Tetrachloroethene	11.54	164	971110	9.69	ppbv	98
53) Toluene	10.12	91	3049041	9.68	ppbv	99
54) 1,2-Dibromoethane	10.93	107	1729974	9.45	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.45	131	1363559	8.63	ppbv #	62
57) Chlorobenzene	12.48	112	2467809	8.57	ppbv	99
58) Ethyl Benzene	13.03	91	4434837	9.09	ppbv	100
59) m/p-Xylene	13.32	91	7220495m	17.30	ppbv	
60) o-Xylene	14.02	91	3691986	8.84	ppbv	99
61) Styrene	13.85	104	880941	9.71	ppbv	98
62) Isopropylbenzene	15.00	105	4557459	8.70	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	2436765	8.48	ppbv	99
64) n-propylbenzene	15.89	120	1150349	8.85	ppbv	100
65) tert-Butylbenzene	17.08	119	3999556	8.65	ppbv	100
66) Benzyl Chloride	17.33	91	547998	11.87	ppbv	100
67) sec-Butylbenzene	17.63	105	5632684	8.72	ppbv	100
69) p-Isopropyltoluene	17.98	119	4607474	8.88	ppbv	100
70) n-Butylbenzene	18.88	91	4747130	8.80	ppbv	100
71) 2-Chlorotoluene	15.79	91	3490467	8.83	ppbv	100
72) 4-Ethyltoluene	16.17	105	3742746	8.87	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	3362996	8.76	ppbv	100
74) 1,2,4-Trimethylbenzene	17.10	105	3608844	8.49	ppbv	97
75) 1,3-Dichlorobenzene	17.34	146	2253519	8.53	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	2265637	8.76	ppbv	100
77) 1,2-Dichlorobenzene	18.16	146	2192387	8.57	ppbv	100
78) Hexachloro-1,3-Butadiene	23.70	225	579807	6.44	ppbv	100
79) Naphthalene	22.61	128	2377268	9.08	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	558779	7.65	ppbv	100
81) 1,2,4-Trichlorobenzene	22.34	180	1119643	8.00	ppbv	100

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

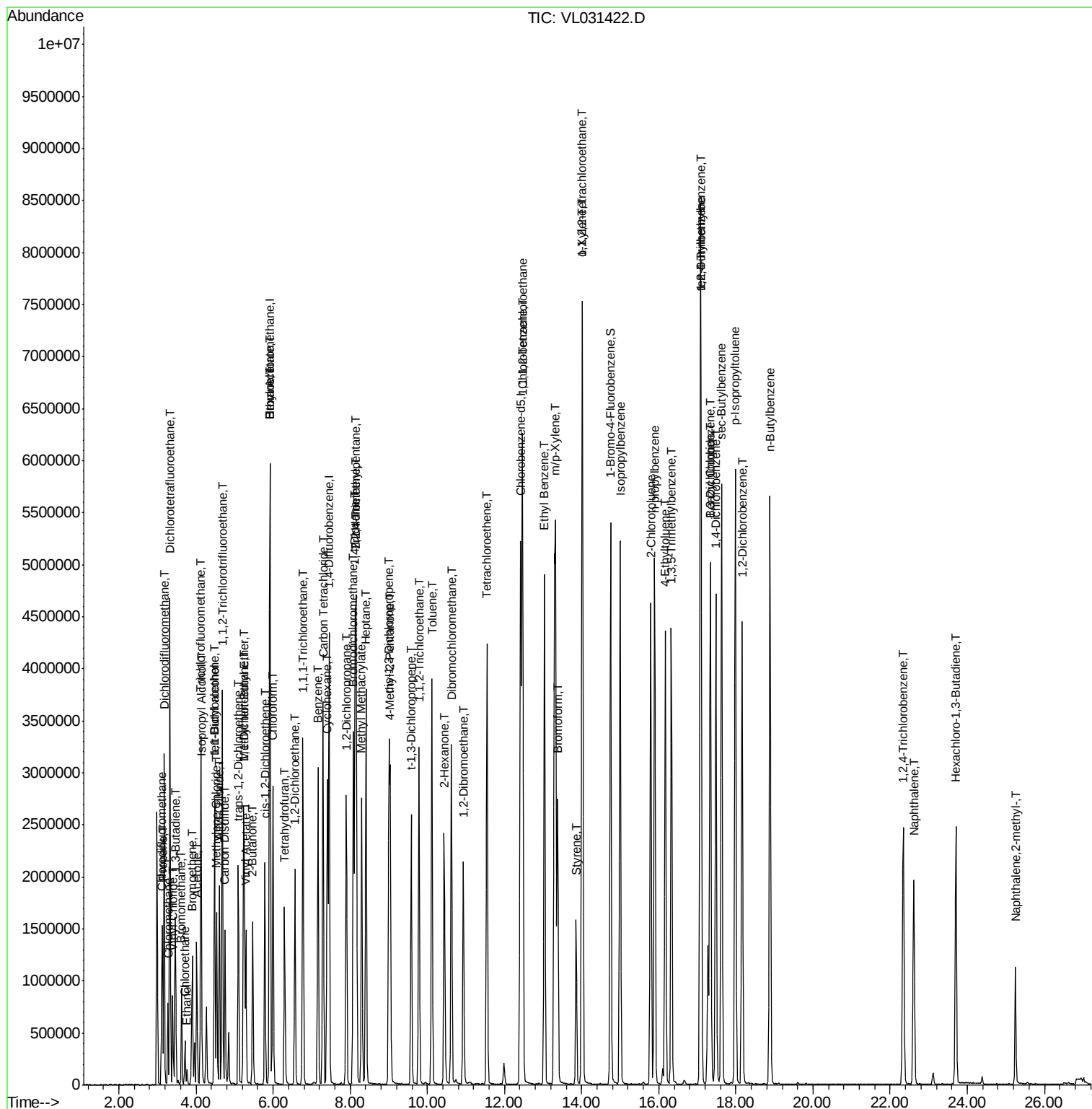
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
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Acq On : 22 Jan 2018 18:33
Operator : SY/AP
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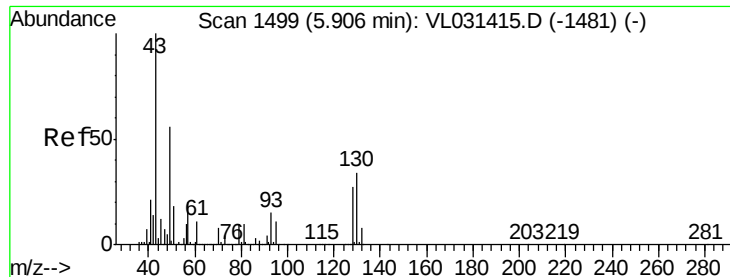
Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

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Quant Time: Jan 23 06:31:39 2018
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan
QLast Update : Mon Jan 22 17:52:32 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 49 Resp: 1278163

Ion Ratio Lower Upper

49 100

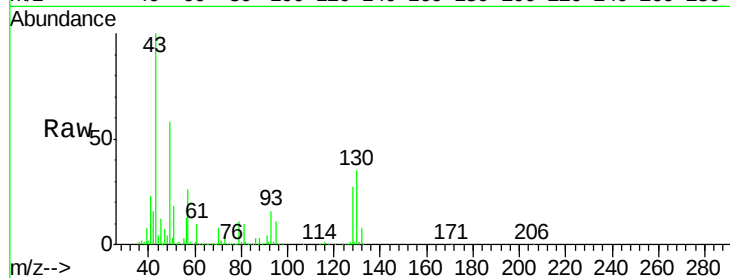
128 47.1 23.5 70.6

130 60.1 29.9 89.7

Manual Integrations
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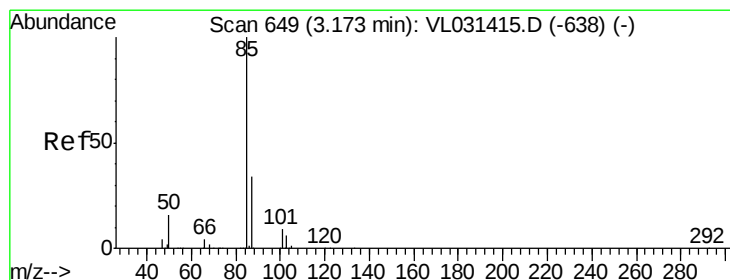
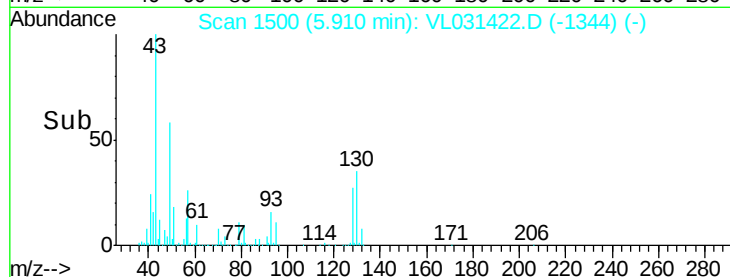
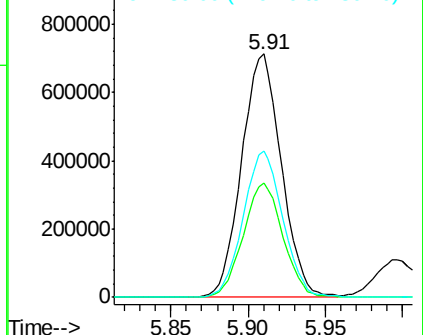
1/24/2018 5:10:16 PM



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: 12.73 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031422.D

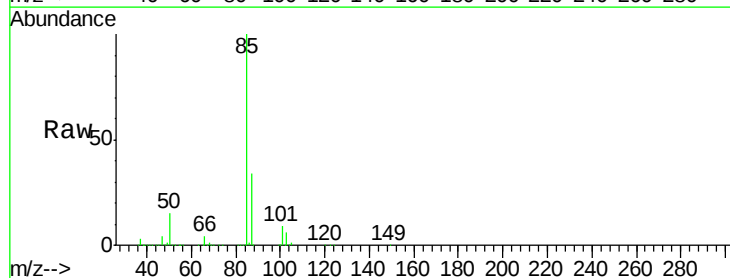
Acq: 22 Jan 2018 18:33

Tgt Ion: 85 Resp: 2301485

Ion Ratio Lower Upper

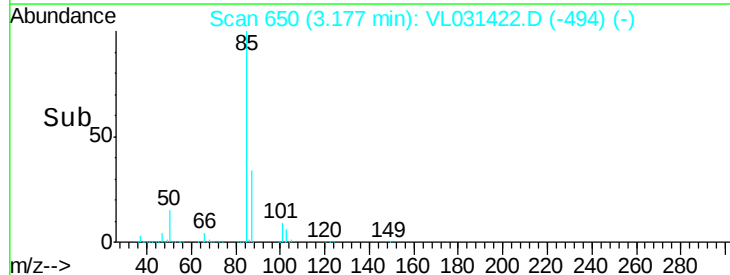
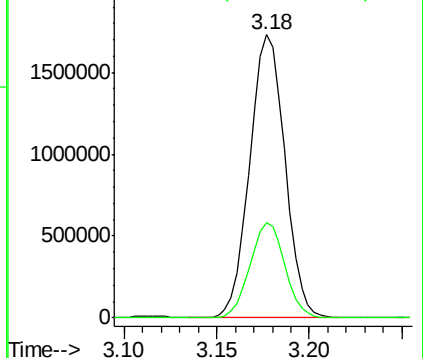
85 100

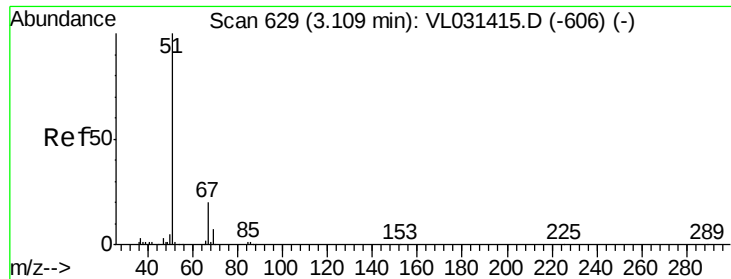
87 33.6 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.62 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 51 Resp: 1287642

Ion Ratio Lower Upper

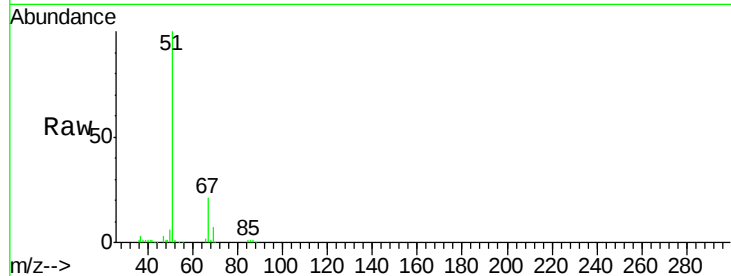
51 100

67 20.4 16.0 24.0

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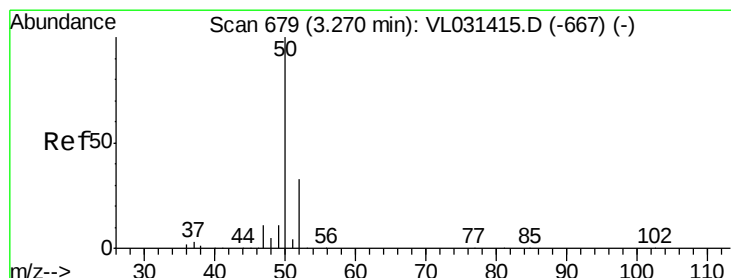
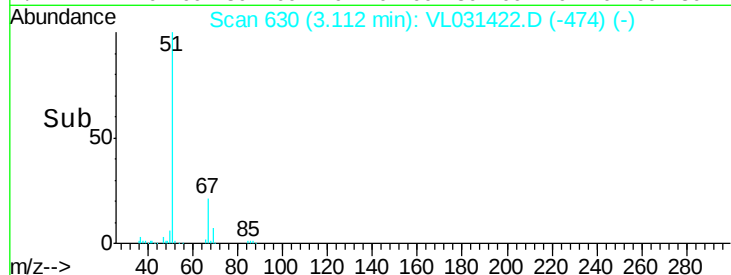
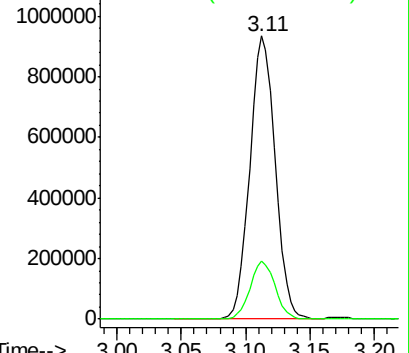
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.97 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031422.D

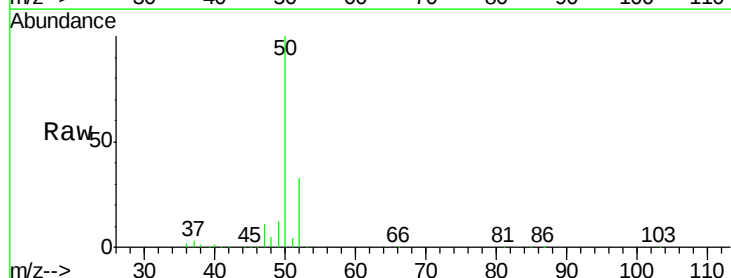
Acq: 22 Jan 2018 18:33

Tgt Ion: 50 Resp: 676901

Ion Ratio Lower Upper

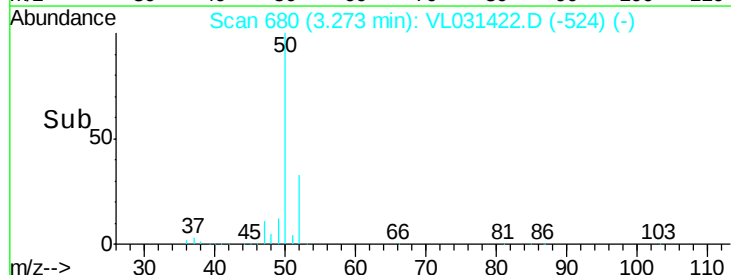
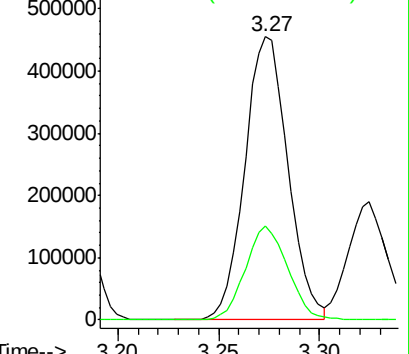
50 100

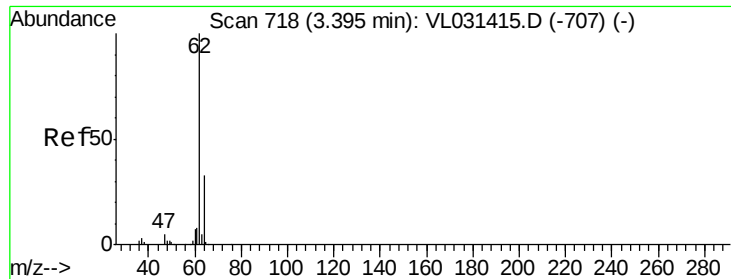
52 33.2 26.4 39.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.43 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 62 Resp: 683803

Ion Ratio Lower Upper

62 100

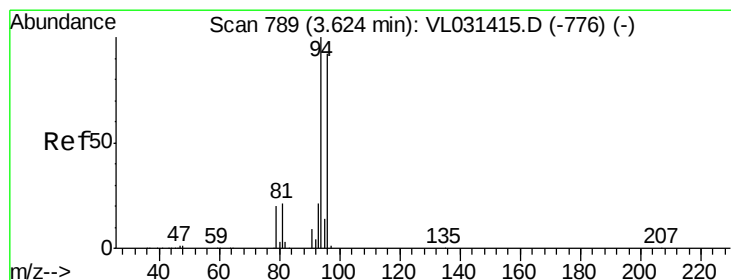
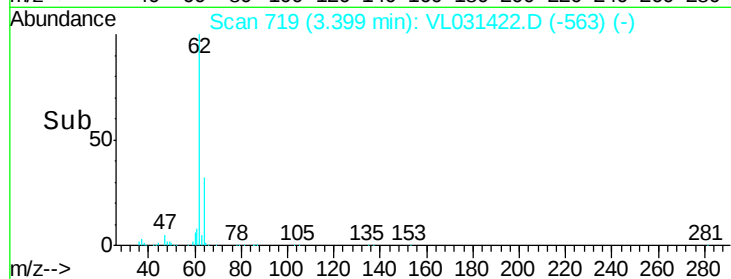
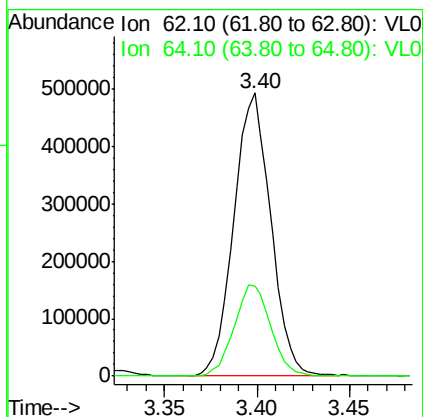
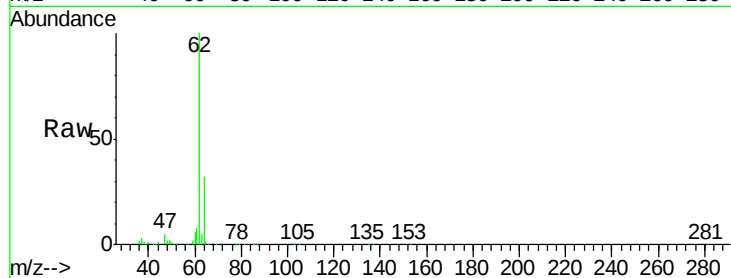
64 32.0 25.4 38.0

Manual Integrations

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#6

Bromomethane

Concen: 9.01 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031422.D

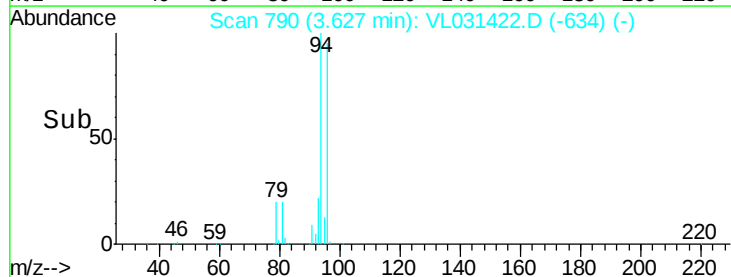
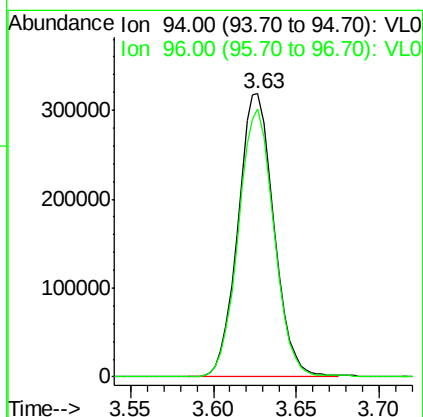
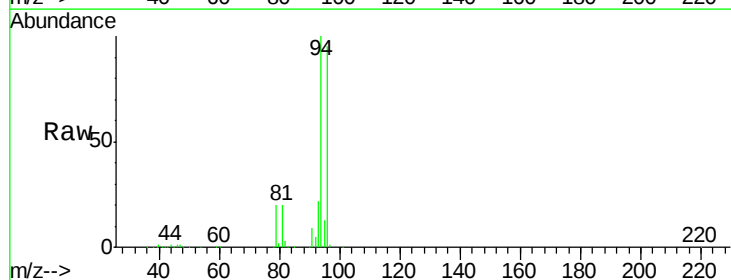
Acq: 22 Jan 2018 18:33

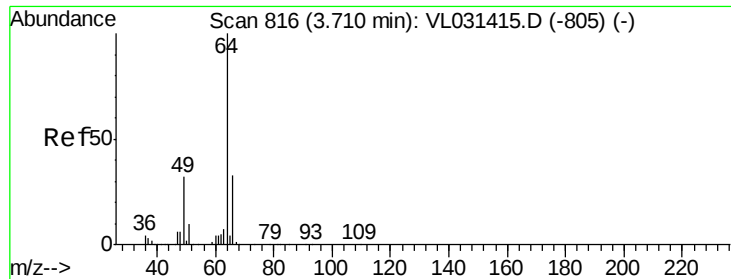
Tgt Ion: 94 Resp: 479452

Ion Ratio Lower Upper

94 100

96 94.7 75.1 112.7





#7

Chloroethane

Concen: 8.87 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 64 Resp: 274843

Ion Ratio Lower Upper

64 100

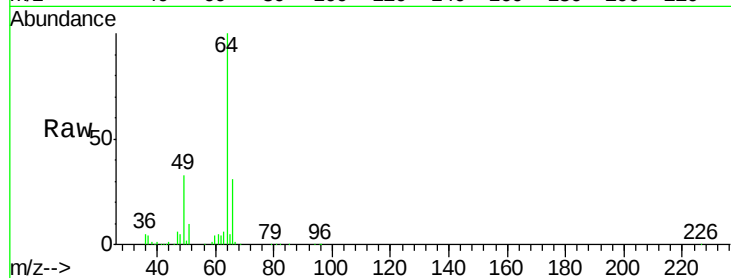
66 30.8 26.3 39.5

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.71

200000

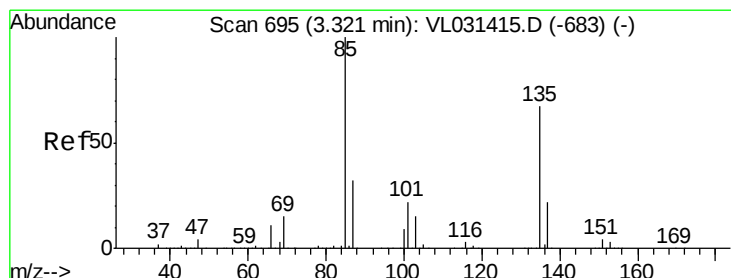
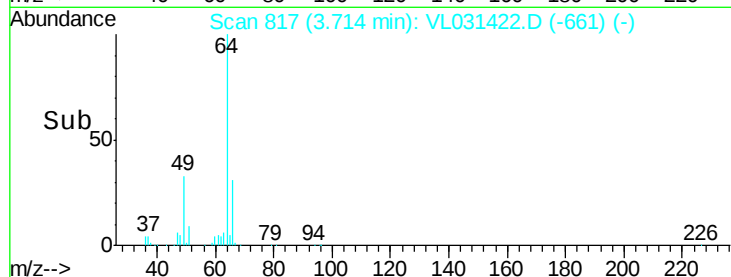
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.95 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031422.D

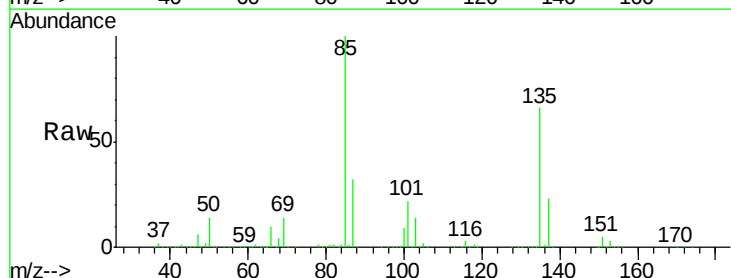
Acq: 22 Jan 2018 18:33

Tgt Ion: 85 Resp: 1803952

Ion Ratio Lower Upper

85 100

135 67.2 53.3 79.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.32

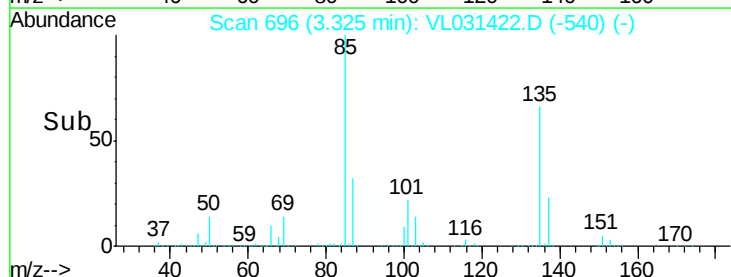
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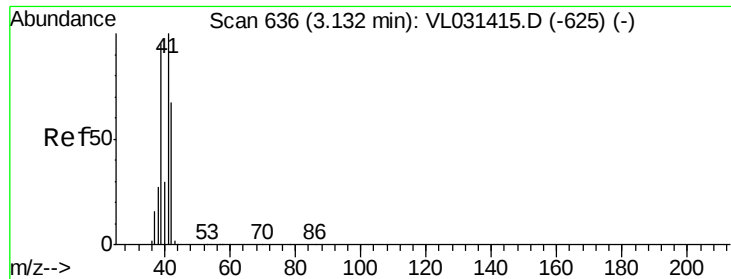
1000000

500000

0

Time-->





#9

Propene

Concen: 9.42 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 41 Resp: 557972

Ion Ratio Lower Upper

41 100

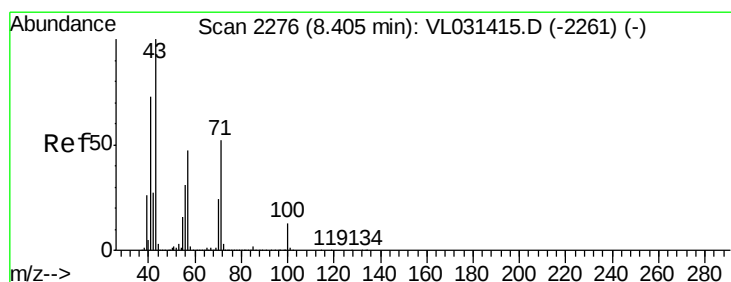
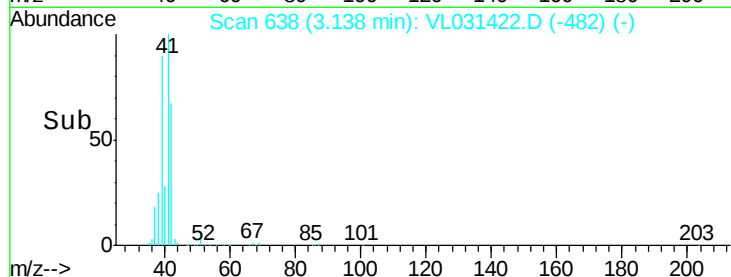
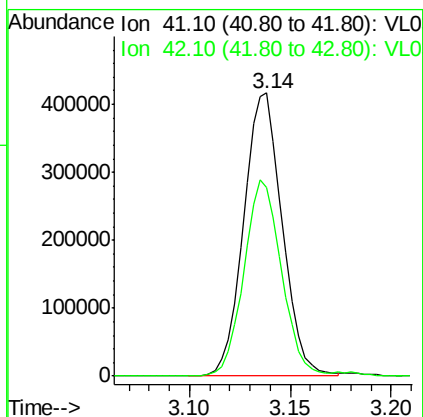
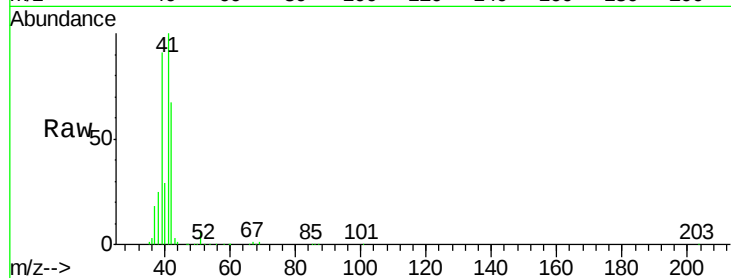
42 69.0 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 9.23 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031422.D

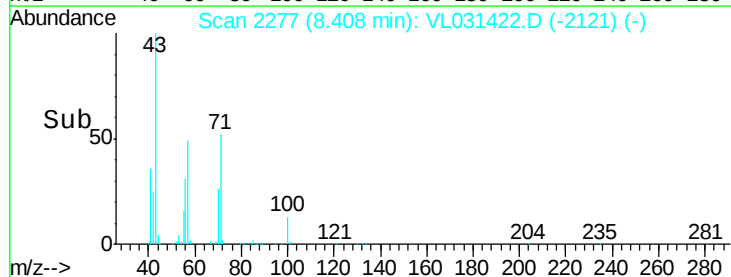
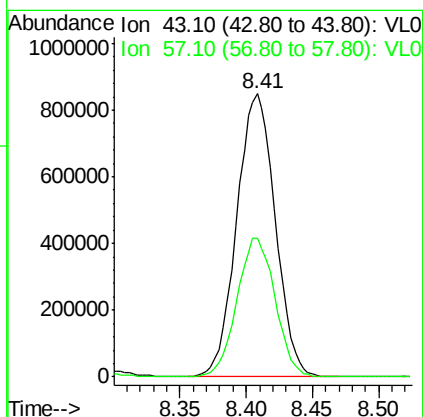
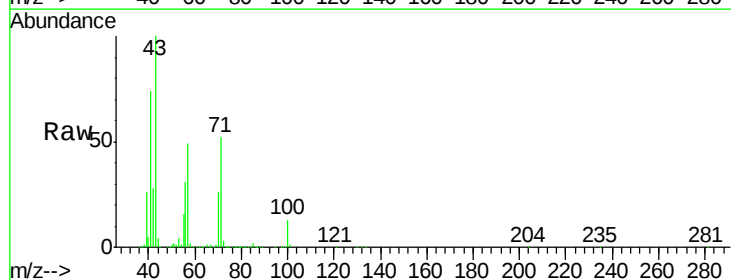
Acq: 22 Jan 2018 18:33

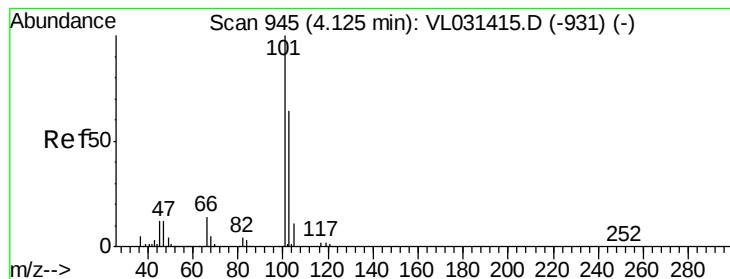
Tgt Ion: 43 Resp: 1701156

Ion Ratio Lower Upper

43 100

57 48.8 39.7 59.5





#11

Trichlorofluoromethane

Concen: 8.72 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:101 Resp: 2126331

Ion Ratio Lower Upper

101 100

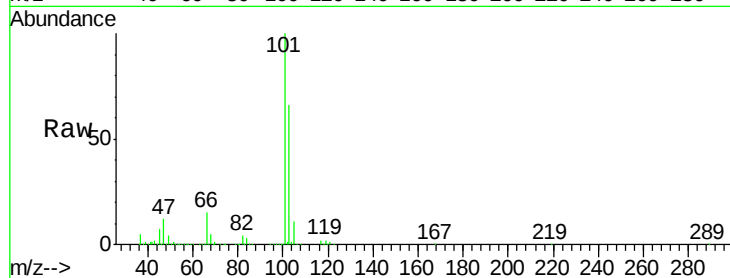
103 66.4 53.1 79.7

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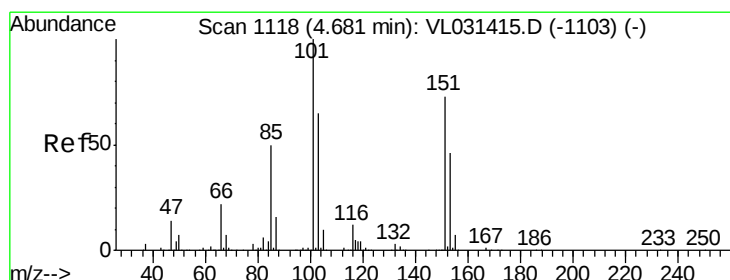
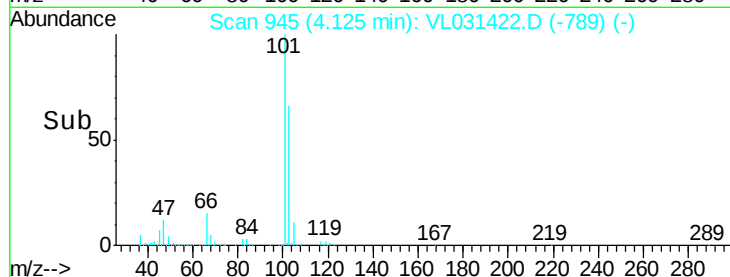
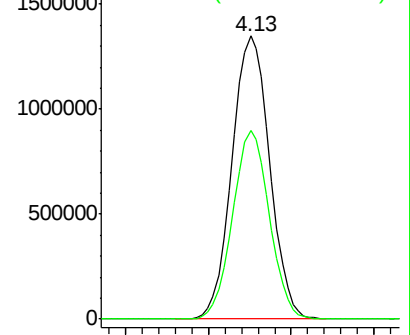
MMDadoda

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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: 8.88 ppbv

RT: 4.68 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VL031422.D

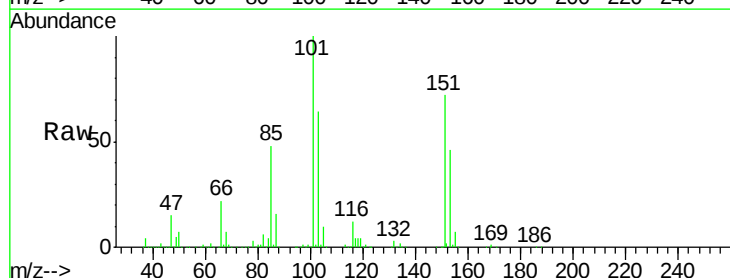
Acq: 22 Jan 2018 18:33

Tgt Ion:101 Resp: 1357771

Ion Ratio Lower Upper

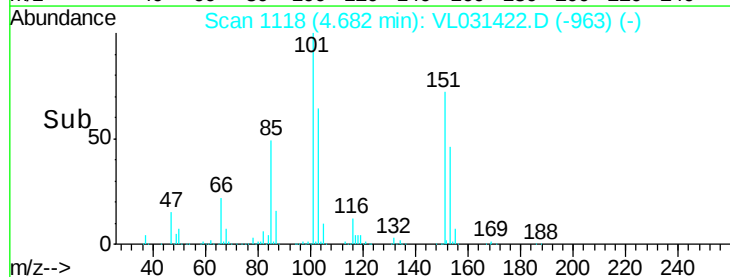
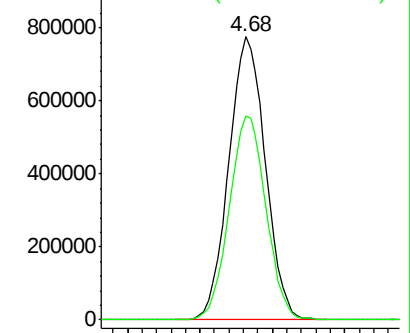
101 100

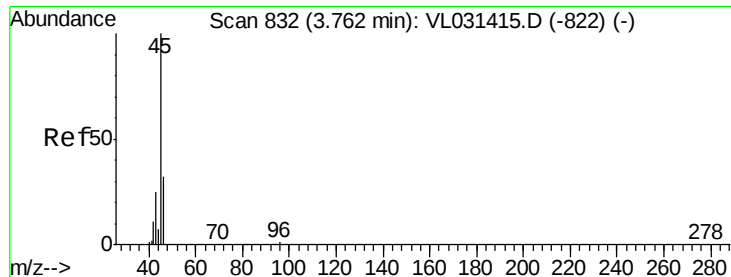
151 72.7 58.1 87.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





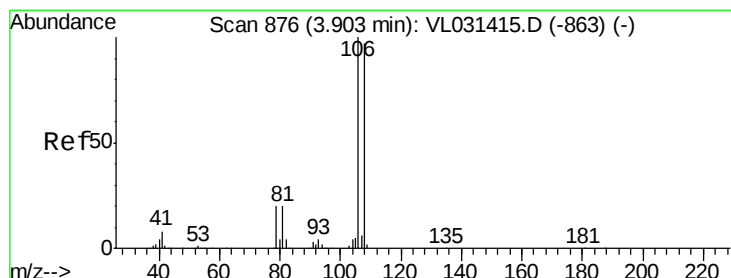
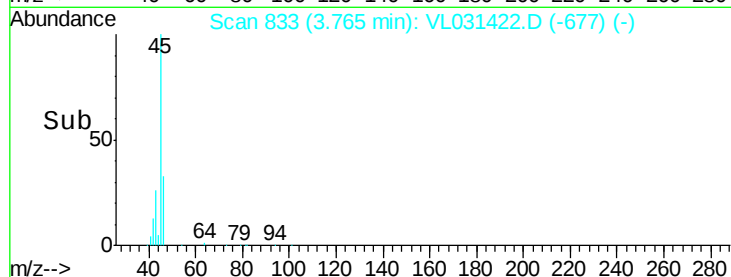
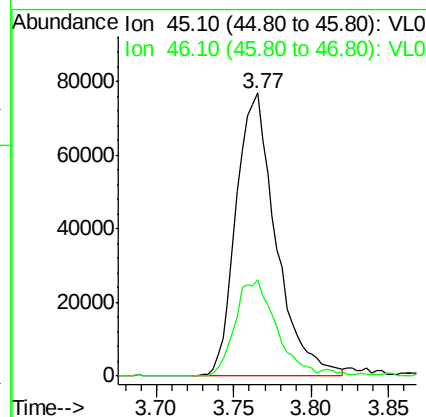
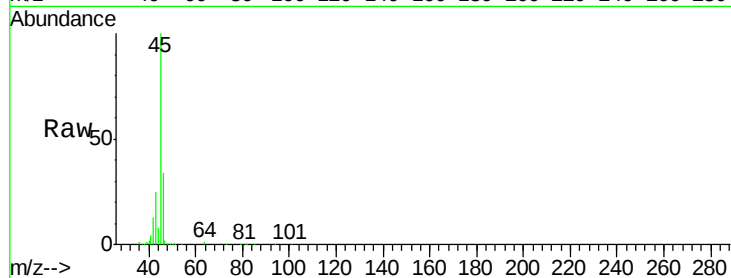
#13
Ethanol
Concen: 7.73 ppbv
RT: 3.77 min Scan# 833
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	45	Resp	137645
Ion Ratio	100	Lower	Upper
46	36.2	14.9	59.5

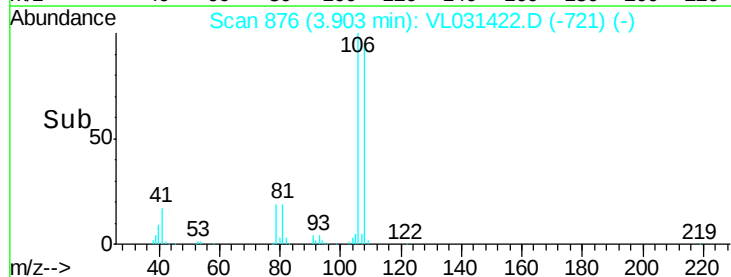
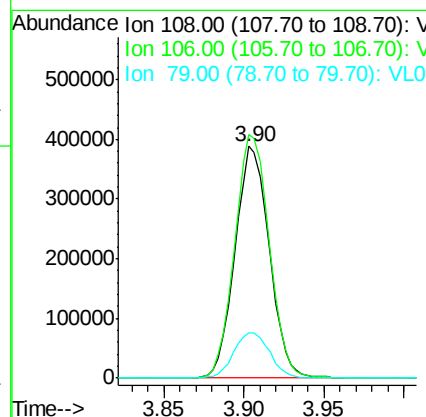
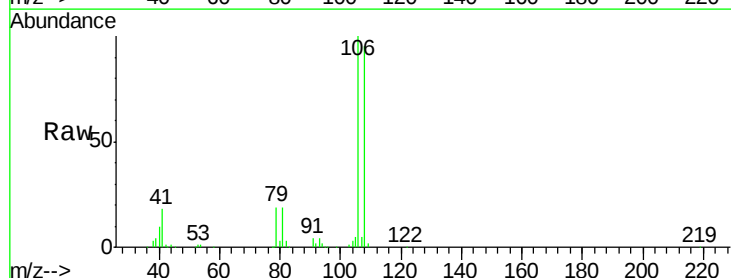
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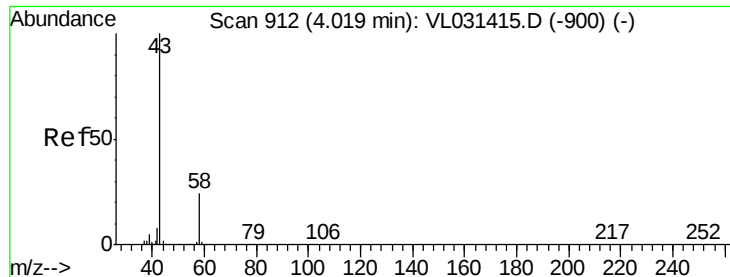
MMDadoda
1/24/2018 5:10:16 PM



#14
Bromoethene
Concen: 9.23 ppbv
RT: 3.90 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	108	Resp	564320
Ion Ratio	100	Lower	Upper
106	106.7	85.3	127.9
79	20.8	16.8	25.2





#15

Acetone

Concen: 8.08 ppbv

RT: 4.02 min Scan# 912

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 43 Resp: 1375410

Ion Ratio Lower Upper

43 100

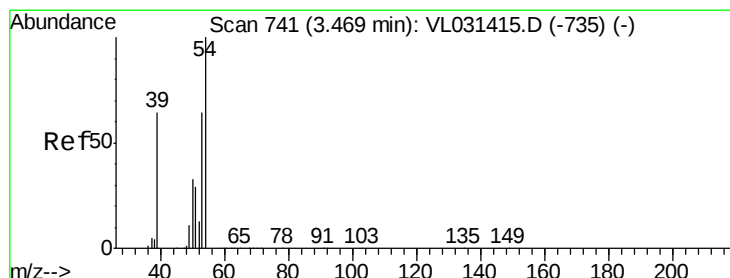
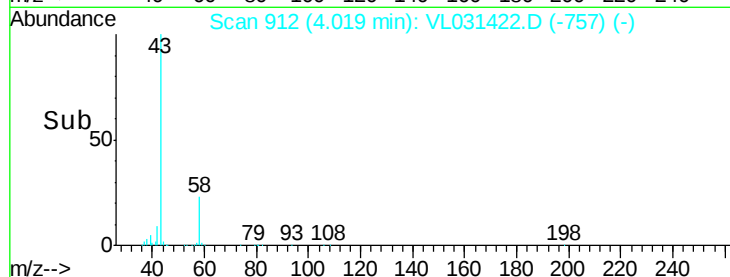
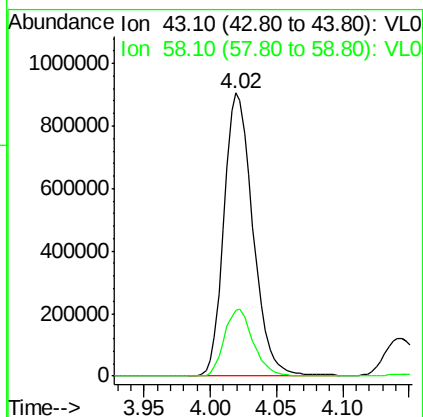
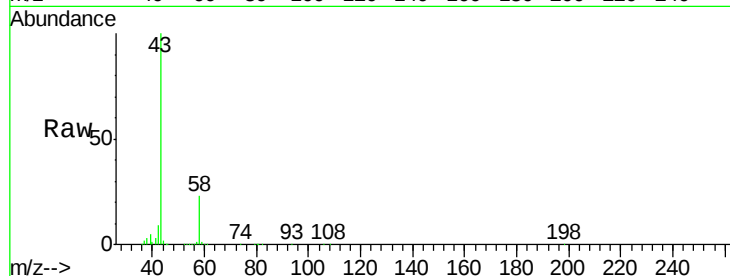
58 23.7 19.4 29.2

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#16

1,3-Butadiene

Concen: 8.76 ppbv

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031422.D

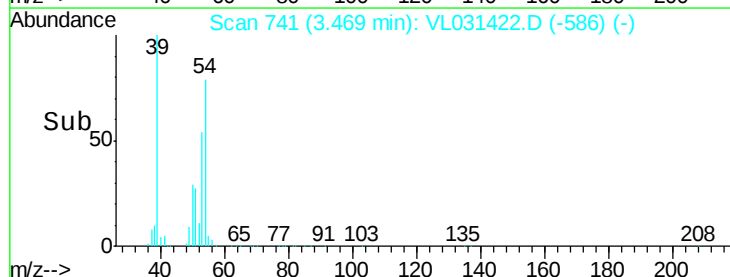
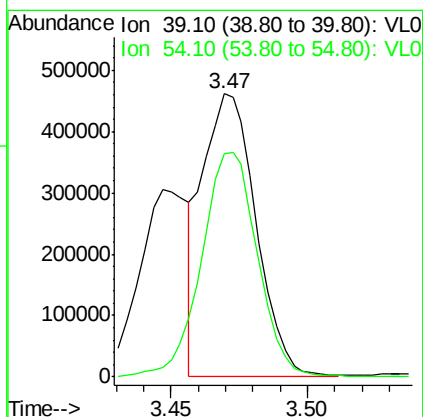
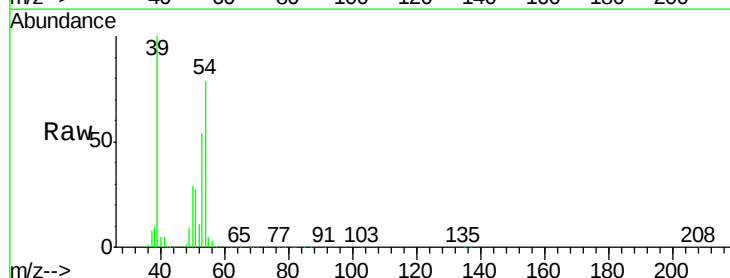
Acq: 22 Jan 2018 18:33

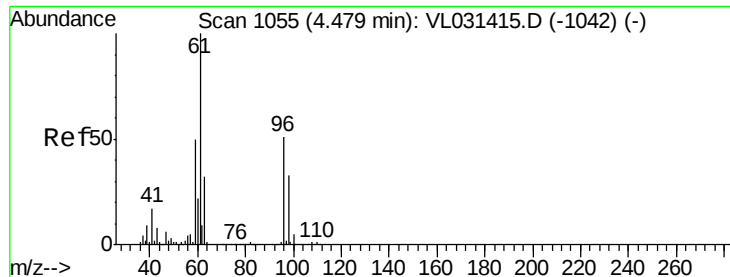
Tgt Ion: 39 Resp: 626067

Ion Ratio Lower Upper

39 100

54 83.8 67.0 100.6





#17

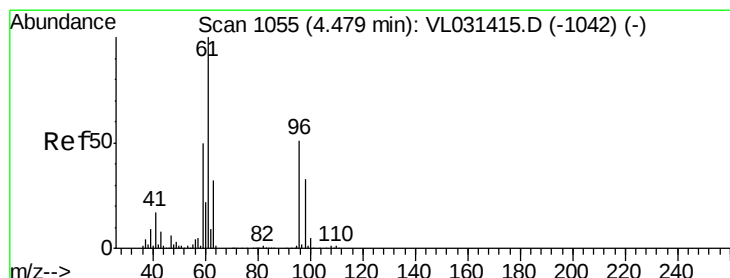
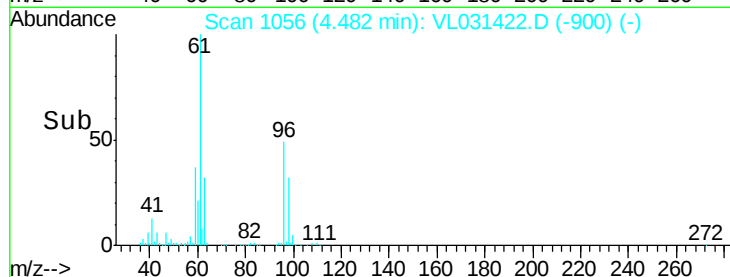
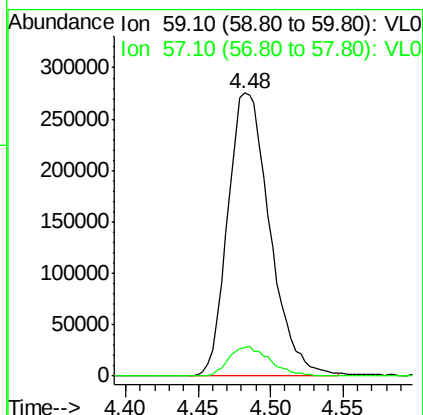
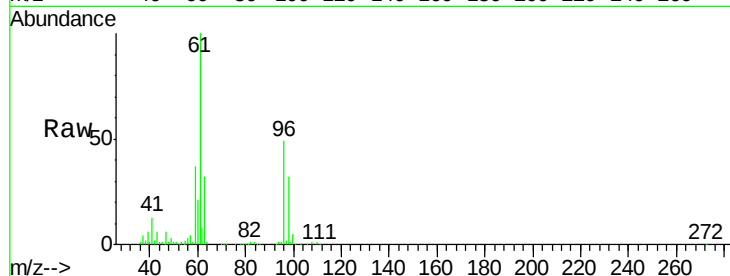
tert-Butyl alcohol
Concen: 6.71 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion: 59 Resp: 555795
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0

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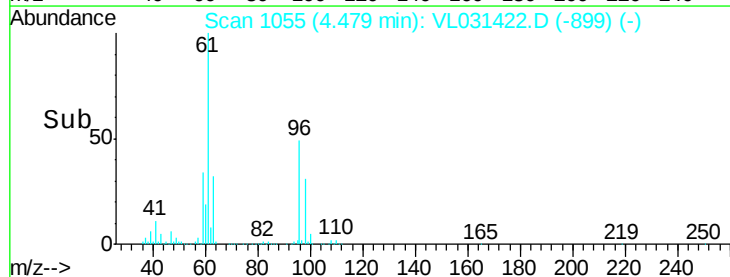
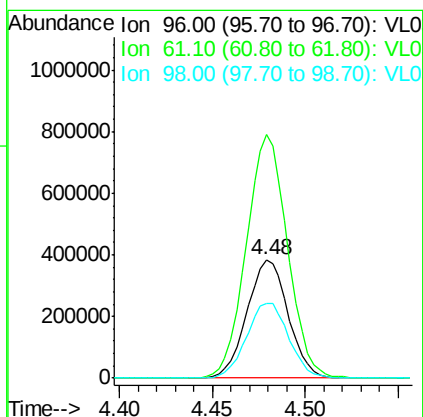
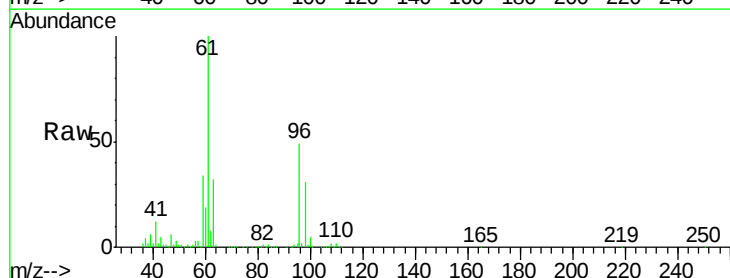
MMDadoda
1/24/2018 5:10:16 PM

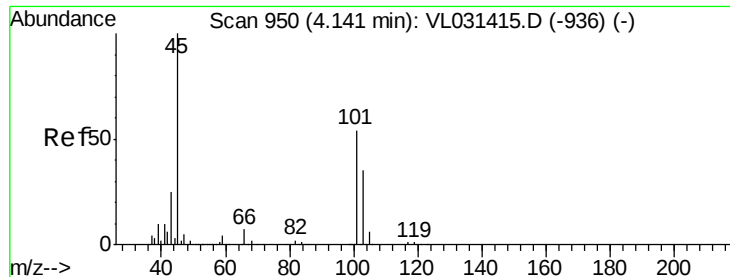


#18

1,1-Dichloroethene
Concen: 9.03 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion: 96 Resp: 594950
Ion Ratio Lower Upper
96 100
61 204.9 161.6 242.4
98 63.0 49.6 74.4





#19

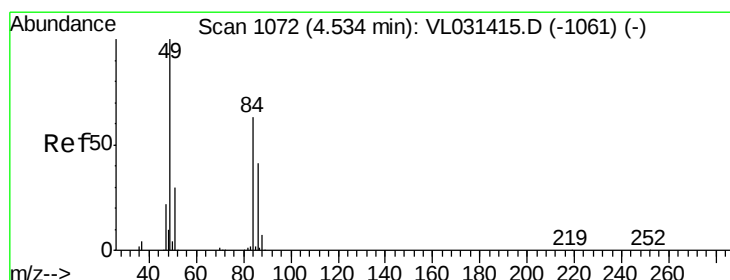
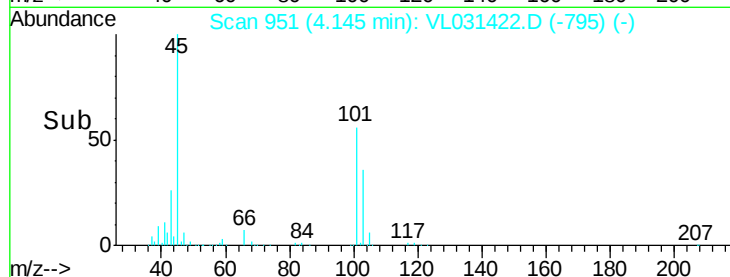
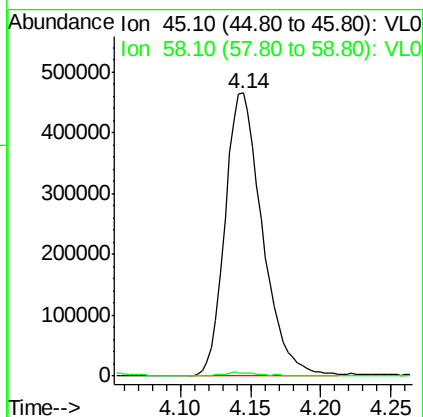
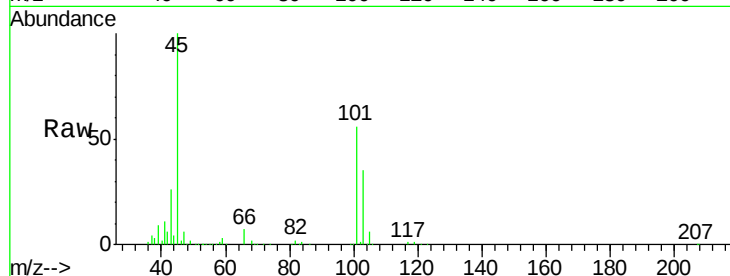
Isopropyl Alcohol
 Concen: 8.09 ppbv
 RT: 4.14 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion: 45 Resp: 859024
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.0 1.4#

Manual Integrations
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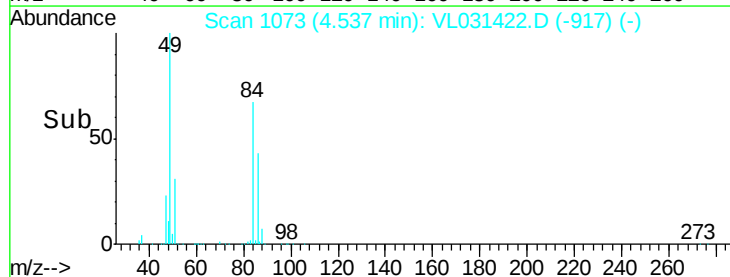
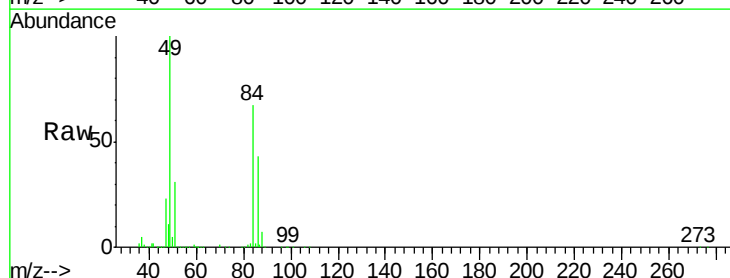
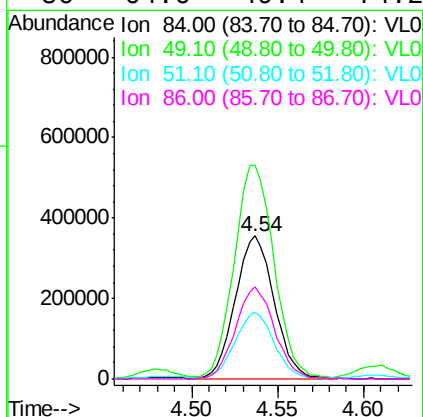
MMDadoda
 1/24/2018 5:10:16 PM

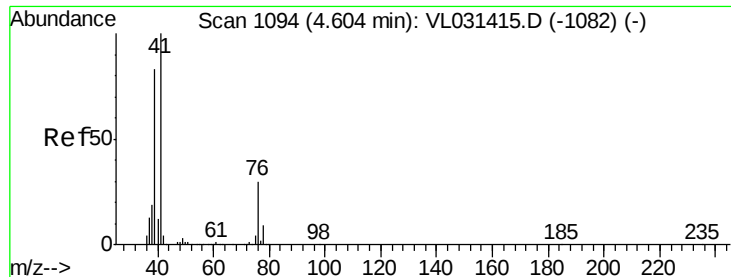


#20

Methylene Chloride
 Concen: 8.40 ppbv
 RT: 4.54 min Scan# 1073
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion: 84 Resp: 554629
 Ion Ratio Lower Upper
 84 100
 49 148.3 123.4 185.0
 51 46.2 35.6 53.4
 86 64.6 49.4 74.2





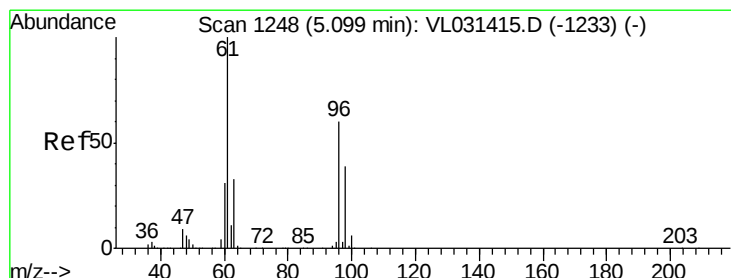
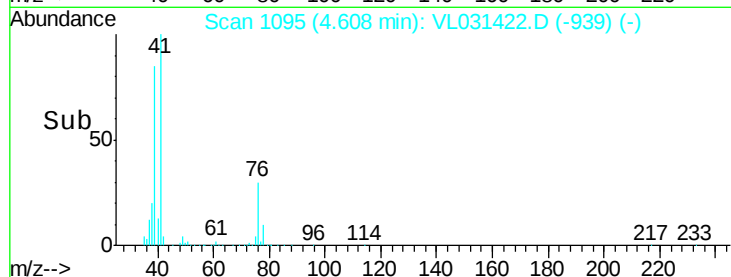
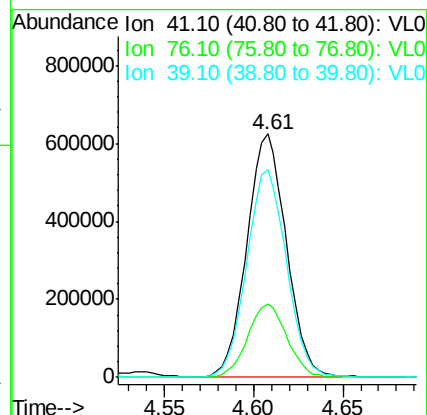
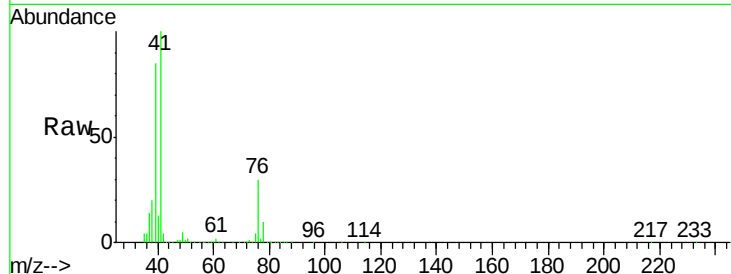
#21
Allvl Chloride
Concen: 9.44 ppbv
RT: 4.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.4	24.2	36.2
39	86.9	69.8	104.8

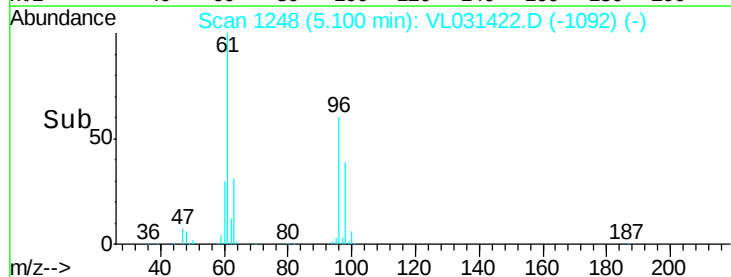
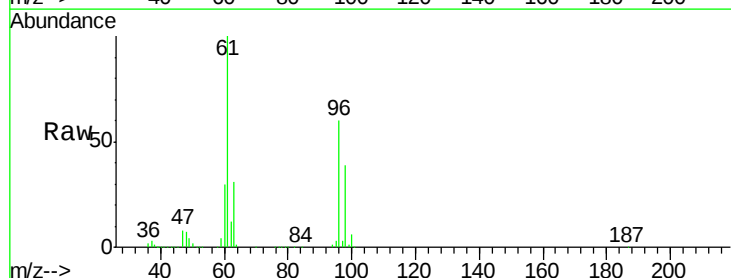
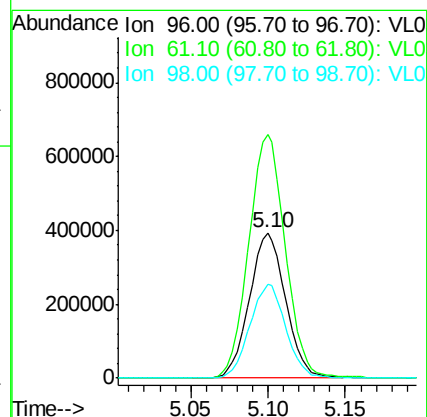
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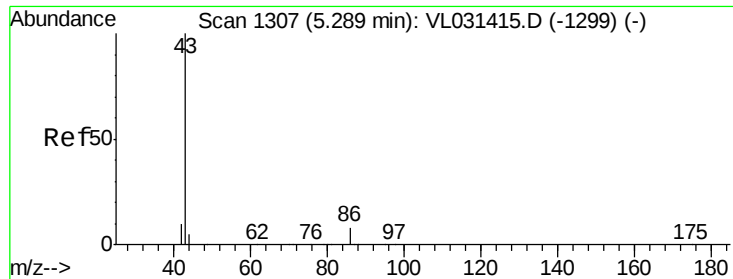
MMDadoda
1/24/2018 5:10:16 PM



#22
trans-1,2-Dichloroethene
Concen: 9.25 ppbv
RT: 5.10 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.4	135.0	202.4
98	64.9	52.2	78.2





#23

Vinyl Acetate

Concen: 9.21 ppbv

RT: 5.29 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 43 Resp: 1895946

Ion Ratio Lower Upper

43 100

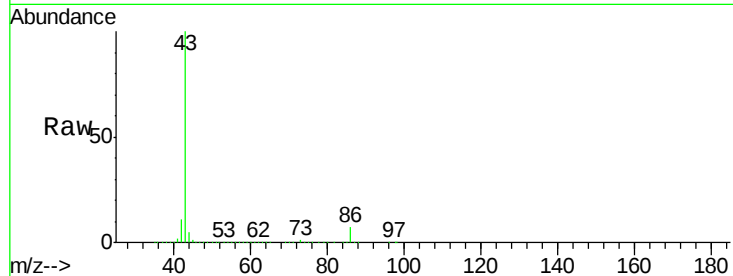
86 7.3 5.6 8.4

42 11.1 8.6 12.8

44 5.3 4.2 6.4

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MMDadoda
1/24/2018 5:10:16 PM

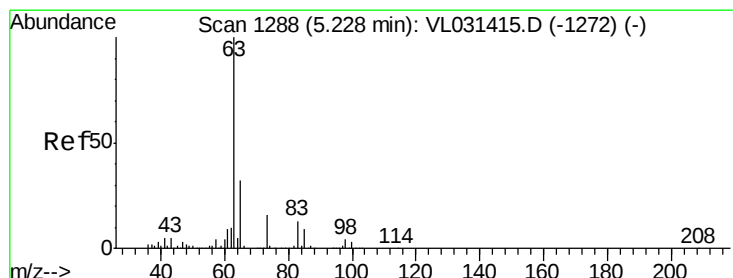
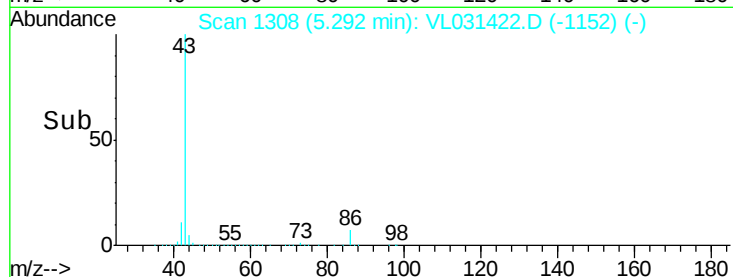
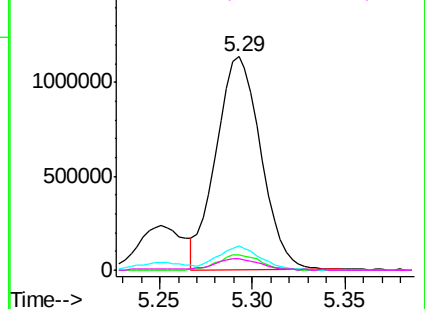


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.98 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

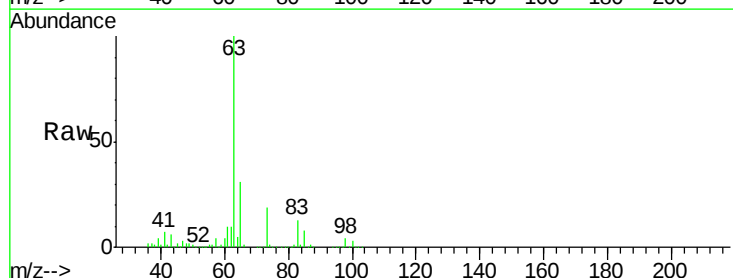
Tgt Ion: 63 Resp: 1612644

Ion Ratio Lower Upper

63 100

98 4.3 2.4 7.1

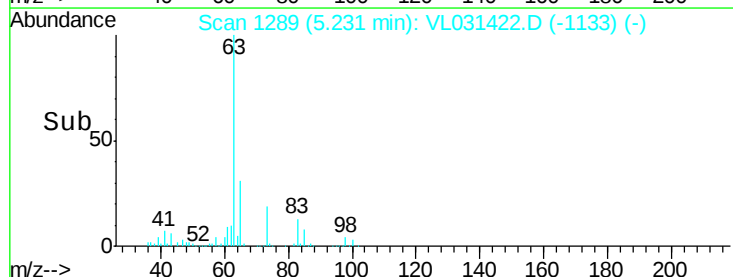
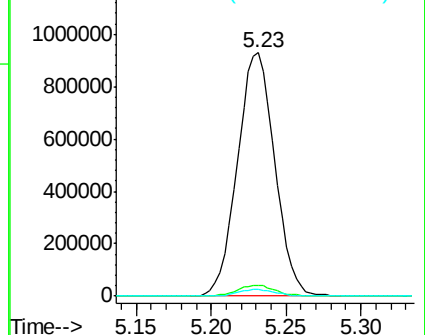
100 2.9 1.3 3.9

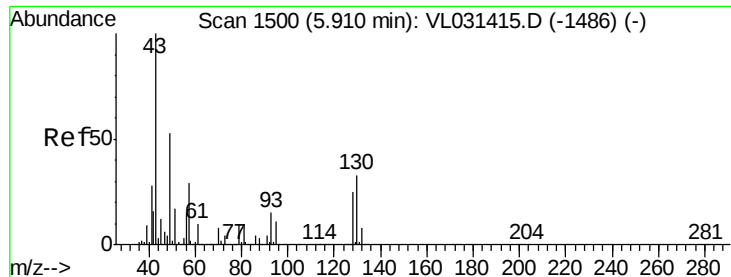


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.84 ppbv

RT: 5.91 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 43 Resp: 2679953

Ion Ratio Lower Upper

43 100

45 9.7 7.8 11.6

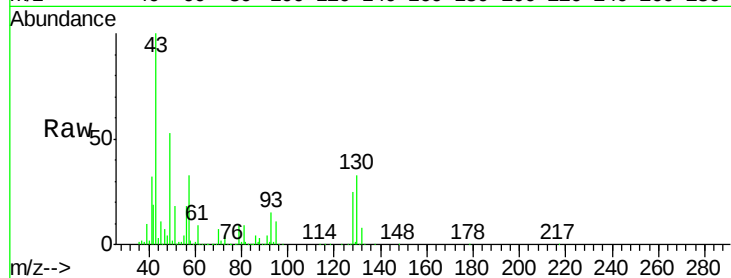
61 8.6 7.0 10.6

70 6.7 5.4 8.0

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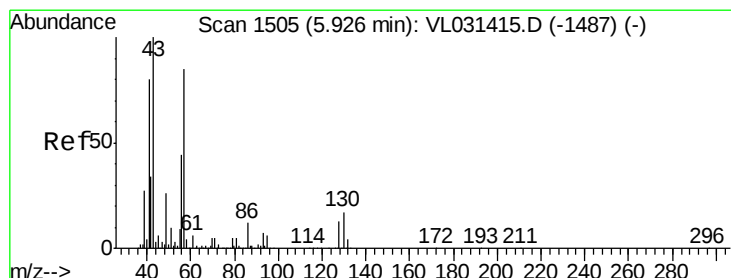
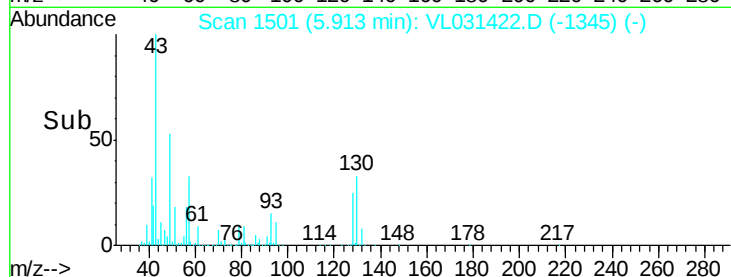
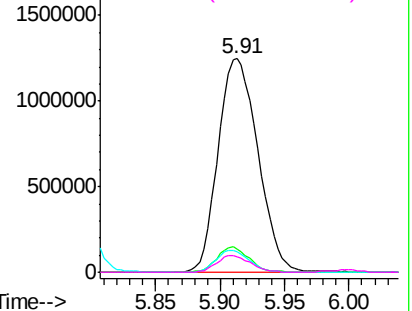


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.89 ppbv

RT: 5.93 min Scan# 1505

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tgt Ion: 57 Resp: 1199199

Ion Ratio Lower Upper

57 100

41 95.7 77.1 115.7

43 224.4 180.7 271.1

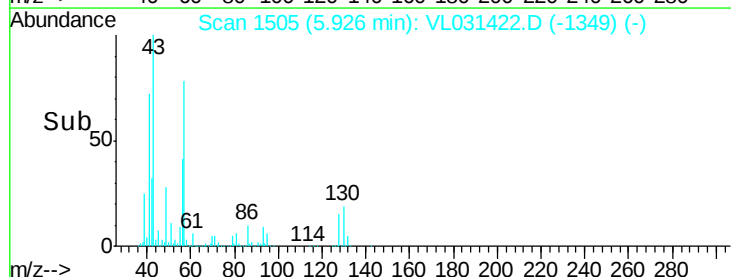
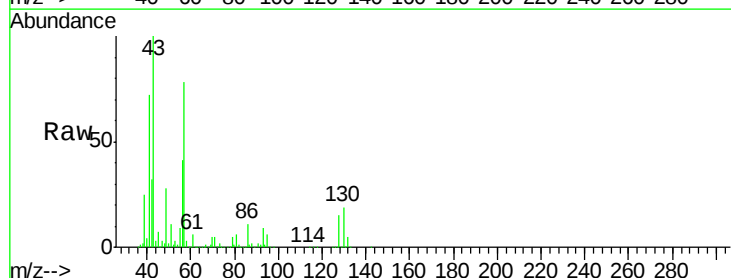
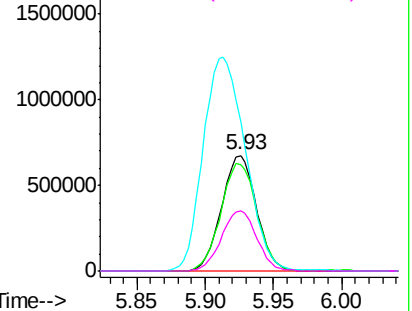
56 52.7 42.2 63.2

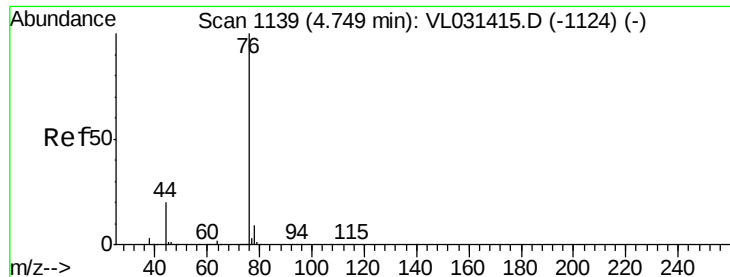
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





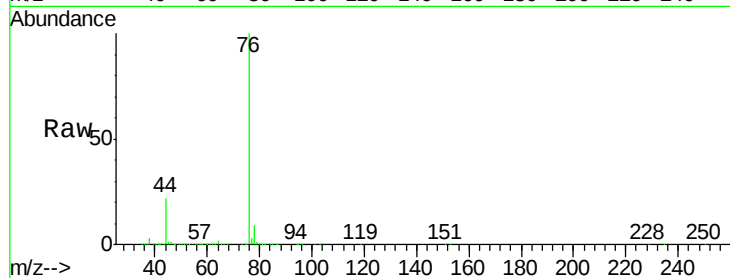
#27
Carbon Disulfide
Concen: 9.65 ppbv
RT: 4.75 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

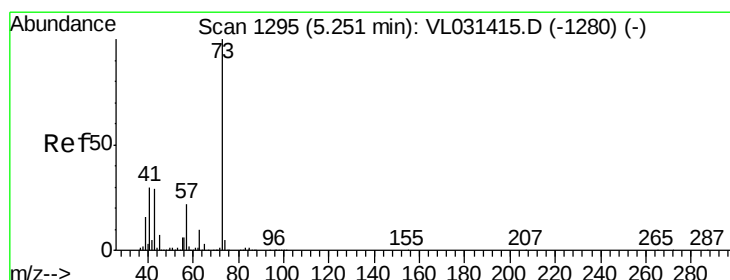
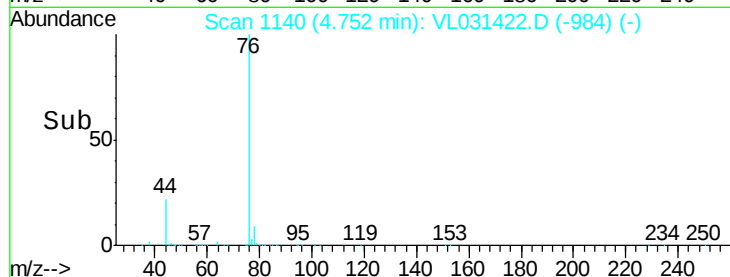
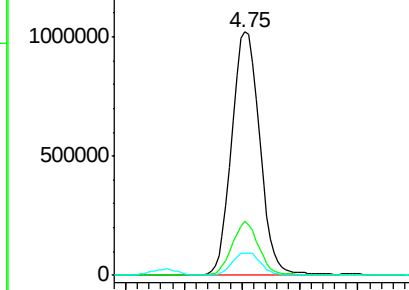
Tot Ion: 76 Resp: 1710866
Ion Ratio Lower Upper
76 100
44 20.7 16.7 25.1
78 9.3 7.5 11.3

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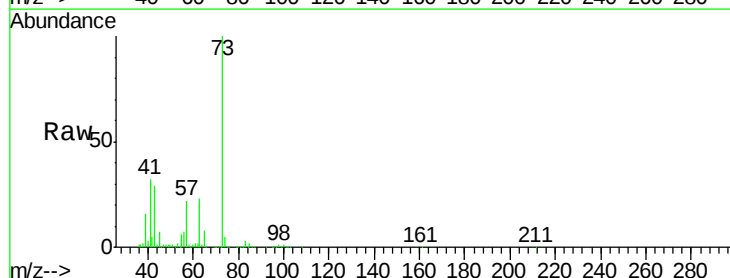


Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

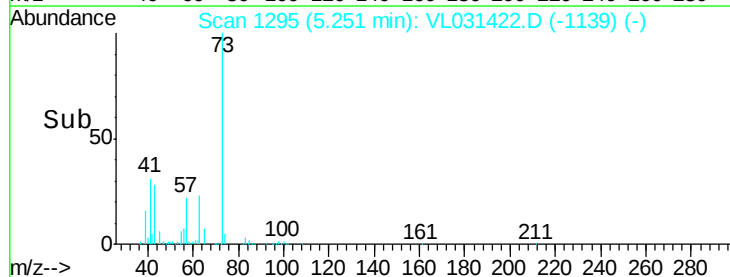
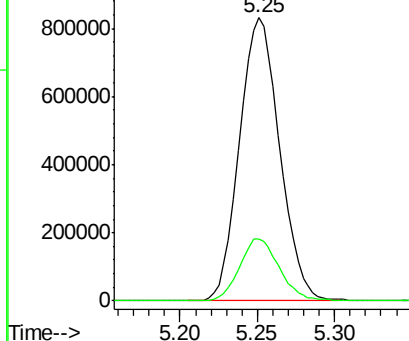


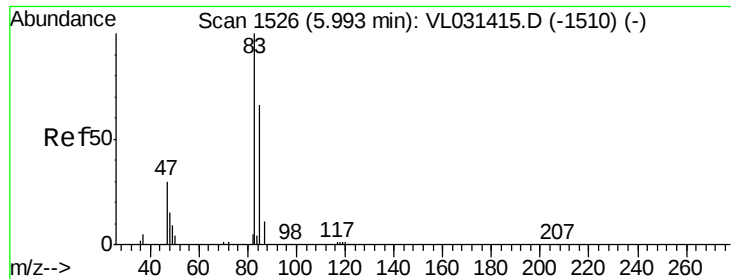
#28
Methyl tert-Butyl Ether
Concen: 9.36 ppbv
RT: 5.25 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion: 73 Resp: 1498749
Ion Ratio Lower Upper
73 100
57 22.0 17.5 26.3



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





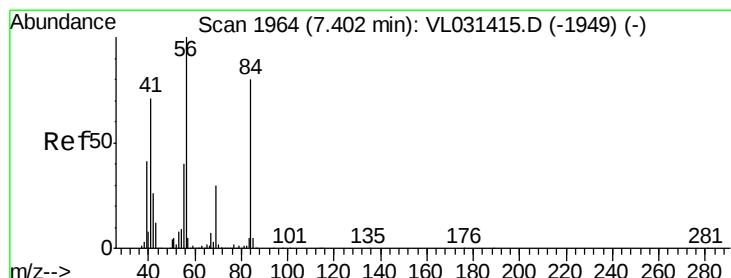
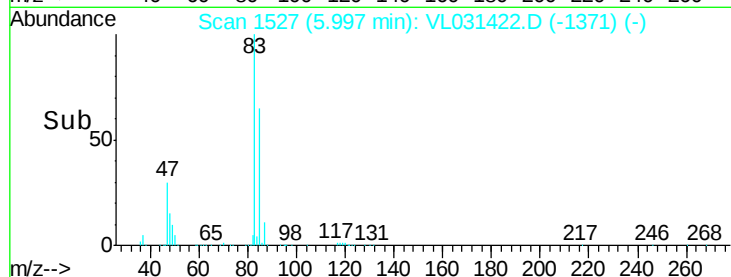
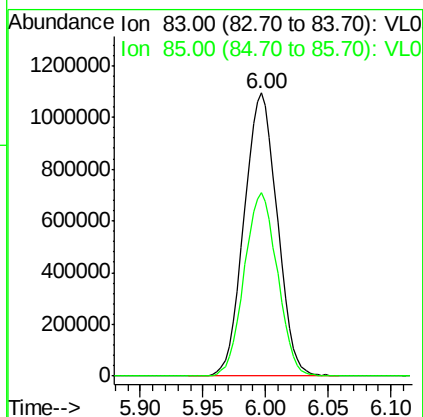
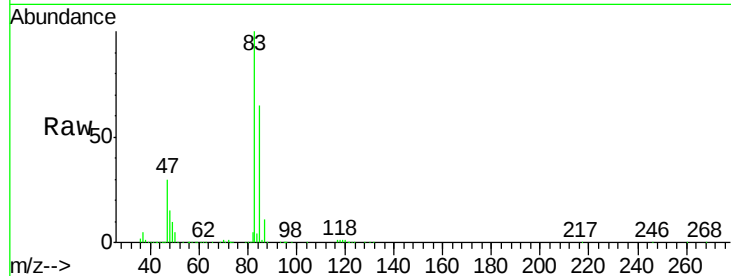
#29
Chloroform
Concen: 8.63 ppbv
RT: 6.00 min Scan# 1527
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion: 83 Resp: 2009023
Ion Ratio Lower Upper
83 100
85 64.7 51.3 76.9

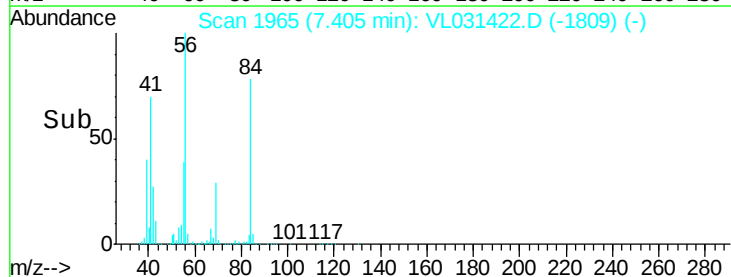
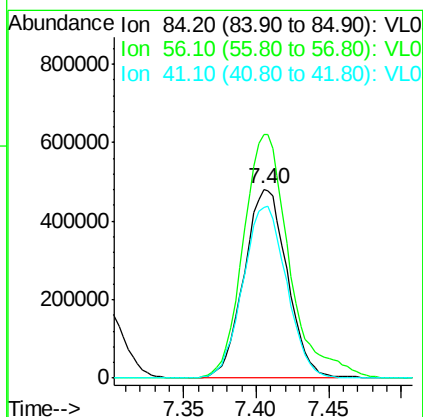
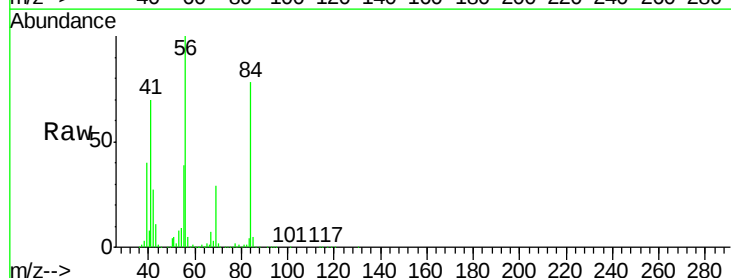
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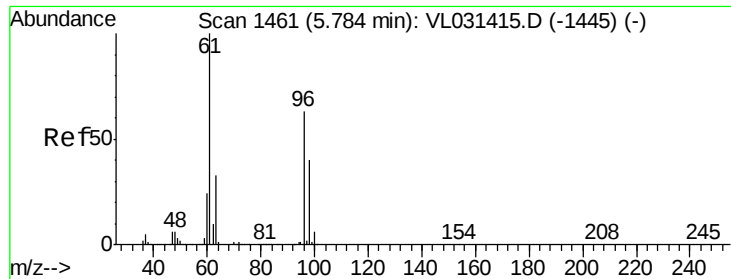
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#30
Cyclohexane
Concen: 9.62 ppbv
RT: 7.40 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion: 84 Resp: 992035
Ion Ratio Lower Upper
84 100
56 138.5 109.0 163.4
41 92.4 73.3 109.9





#31

cis-1,2-Dichloroethene

Concen: 9.43 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

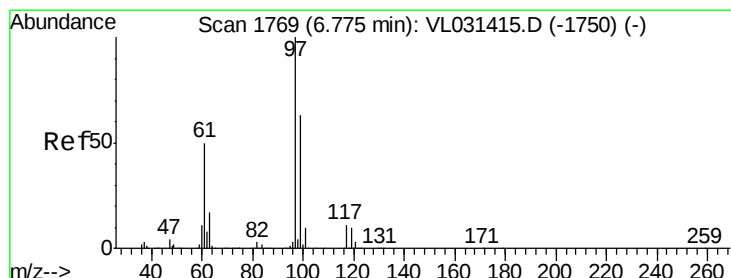
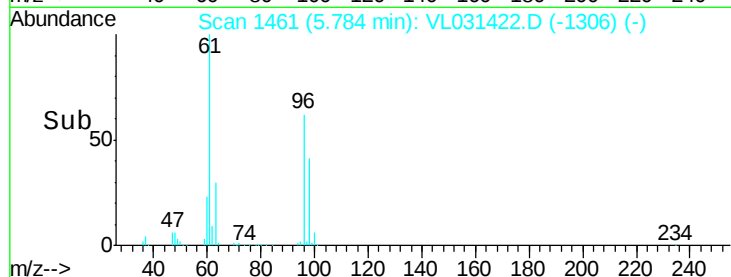
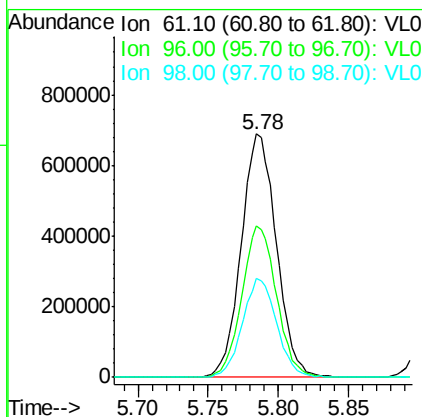
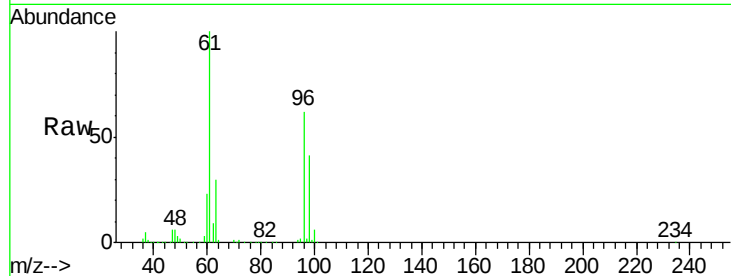
ClientSampleId :

ICVVL012218

Tot Ion:	61	Resp:	1203012
Ion	Ratio	Lower	Upper
61	100		
96	62.1	51.3	76.9
98	40.7	33.6	50.4

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#32

1,1,1-Trichloroethane

Concen: 9.35 ppbv

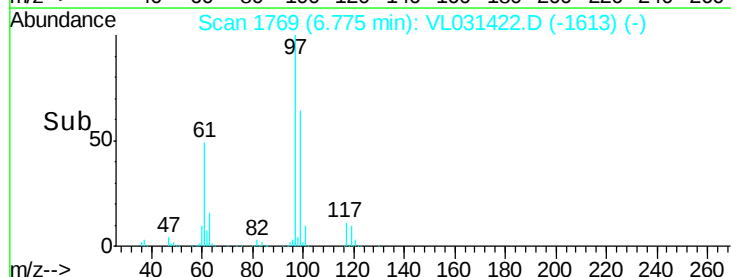
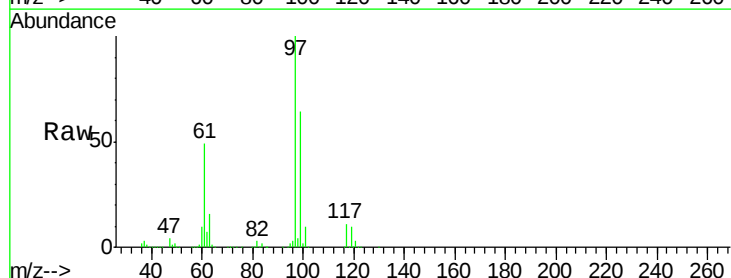
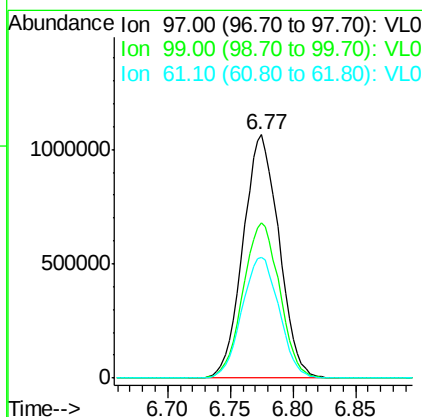
RT: 6.77 min Scan# 1769

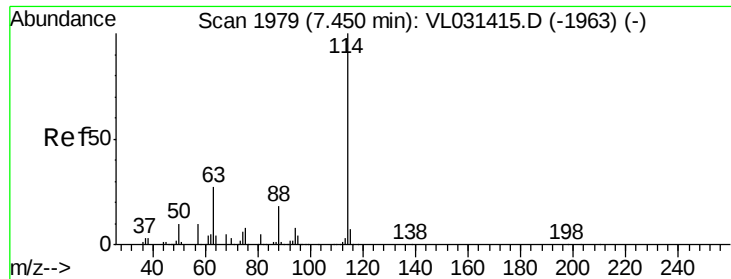
Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tgt Ion:	97	Resp:	2119937
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.9	77.9
61	51.3	40.6	61.0





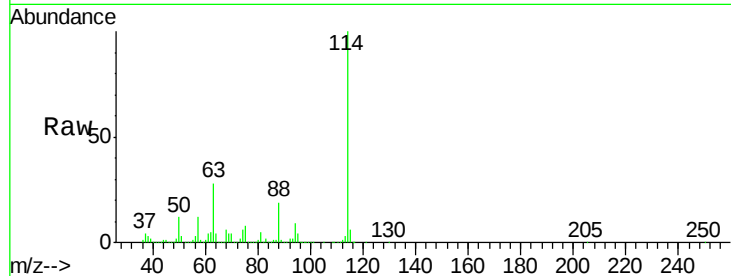
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

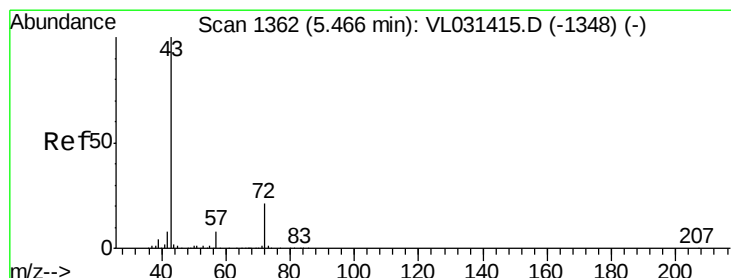
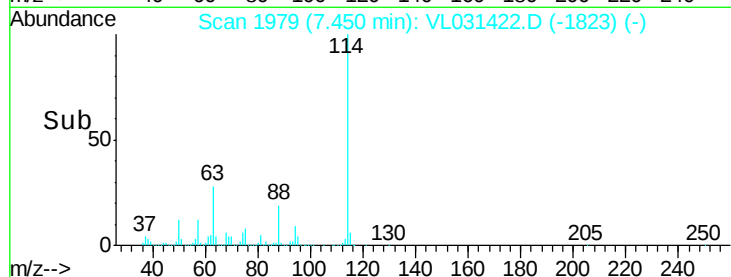
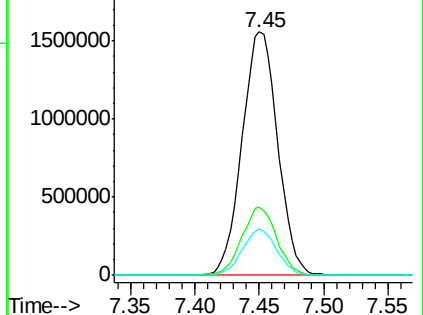
Tot Ion:114 Resp: 3000340
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.5 33.7
 88 18.3 14.6 22.0

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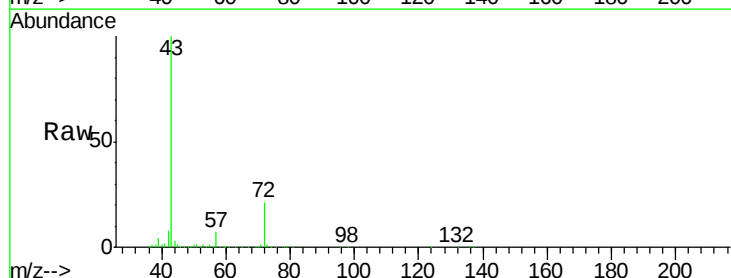


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

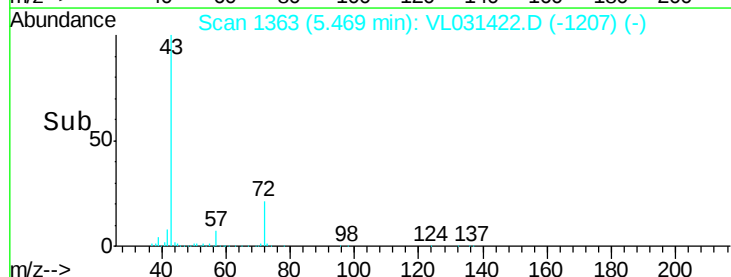
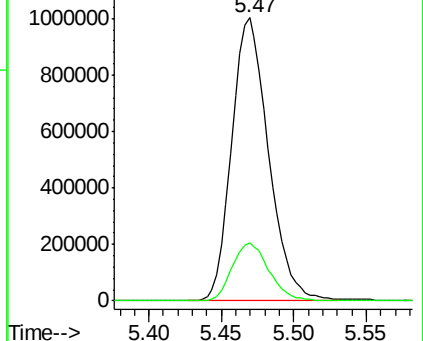


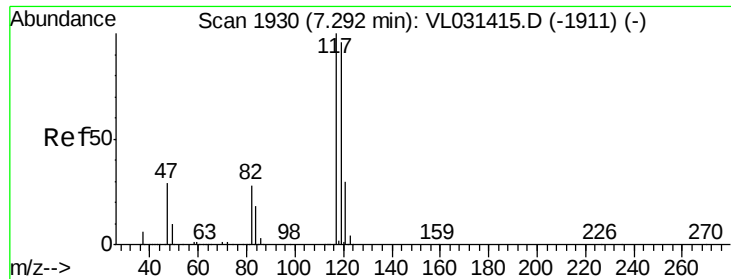
#34
 2-Butanone
 Concen: 9.26 ppbv
 RT: 5.47 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion: 43 Resp: 1758180
 Ion Ratio Lower Upper
 43 100
 72 20.8 16.8 25.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.35 ppbv

RT: 7.29 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:117 Resp: 2272273

Ion Ratio Lower Upper

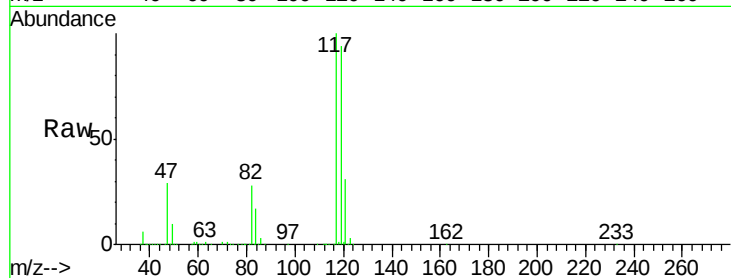
117 100

119 94.4 74.2 111.4

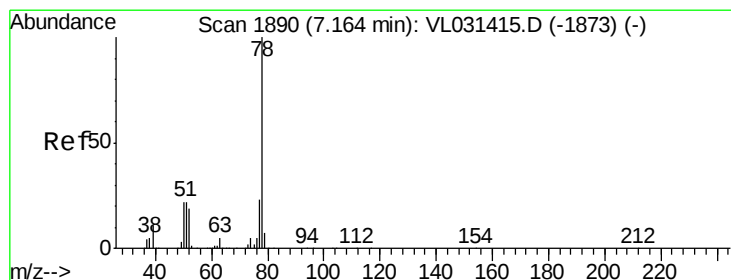
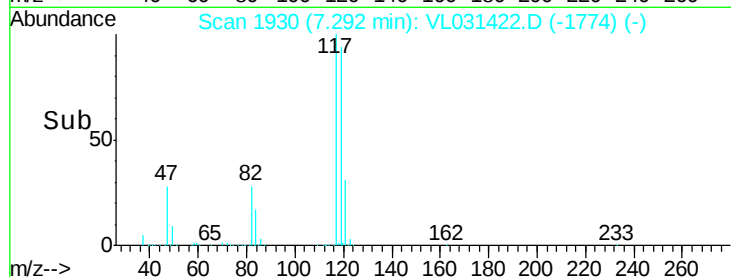
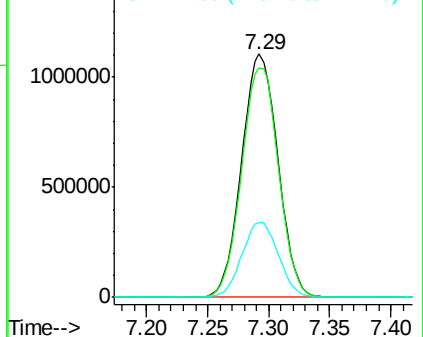
121 30.8 24.2 36.4

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



#36

Benzene

Concen: 8.98 ppbv

RT: 7.16 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

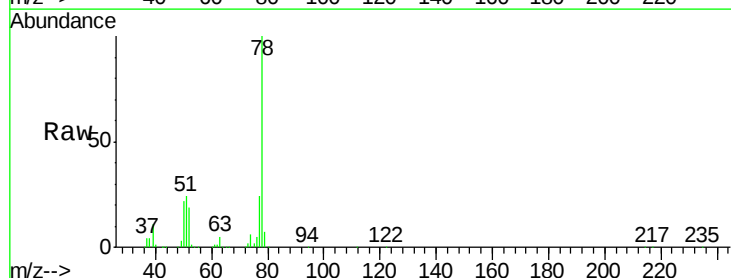
Tgt Ion: 78 Resp: 2396116

Ion Ratio Lower Upper

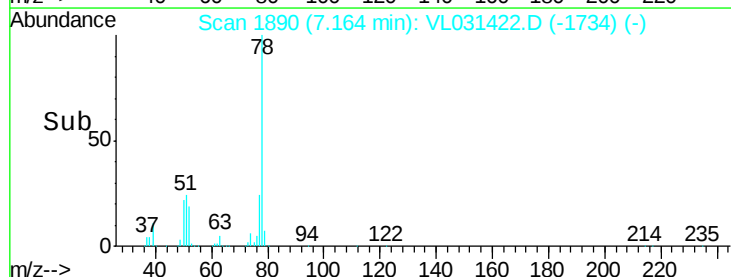
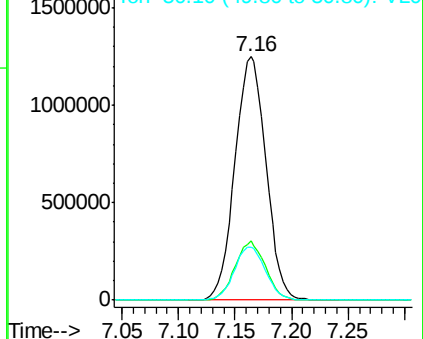
78 100

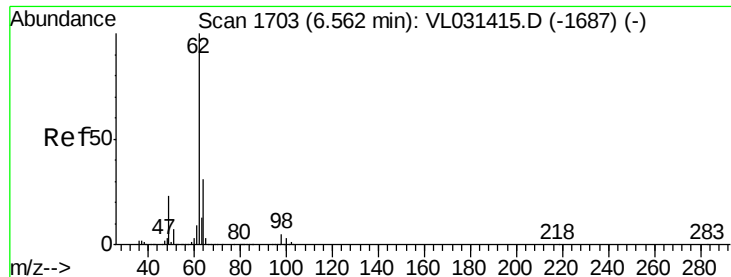
77 24.3 18.7 28.1

50 21.9 18.4 27.6



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





#37

1,2-Dichloroethane

Concen: 8.78 ppbv

RT: 6.57 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 62 Resp: 1818175

Ion Ratio Lower Upper

62 100

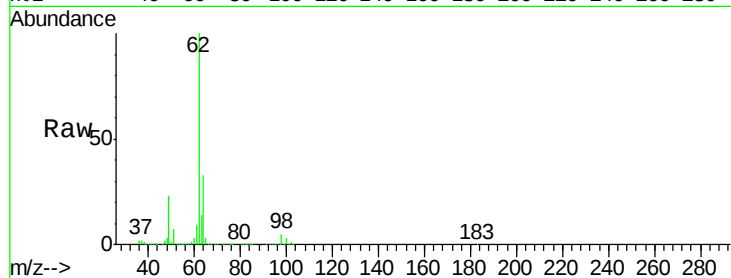
98 4.9 4.1 6.1

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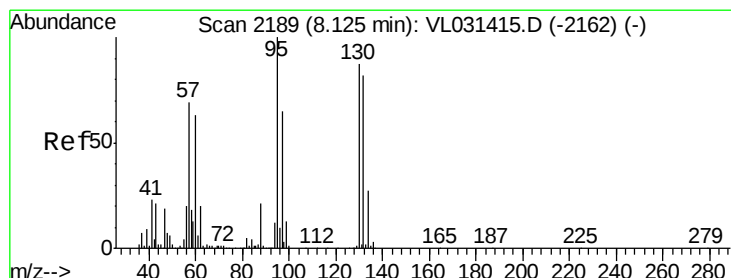
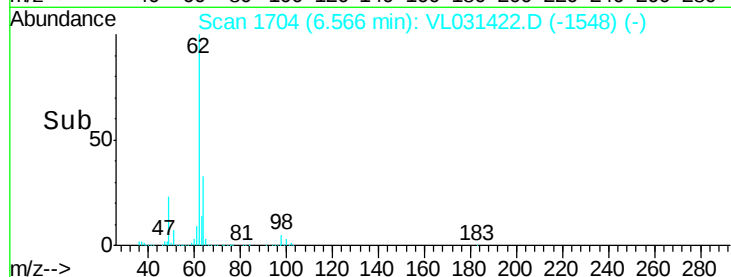
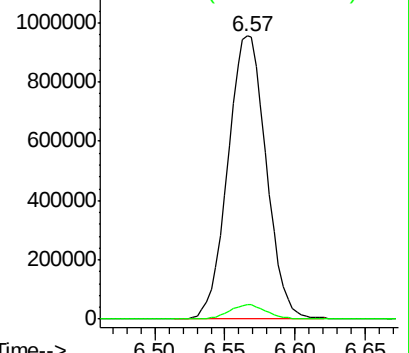
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 9.94 ppbv

RT: 8.13 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tgt Ion: 130 Resp: 1031386

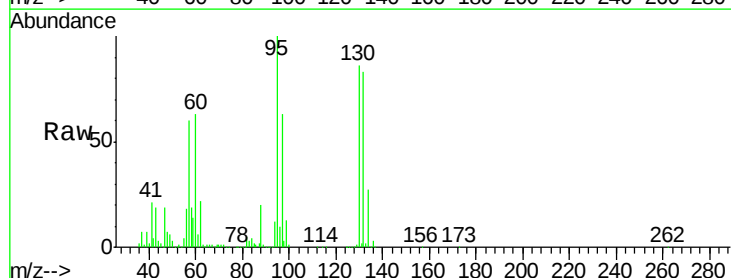
Ion Ratio Lower Upper

130 100

95 116.1 92.9 139.3

132 96.5 74.9 112.3

97 72.8 60.2 90.4

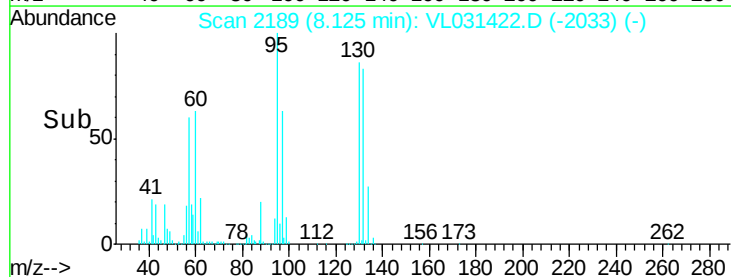
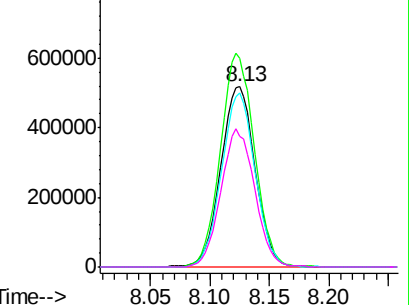


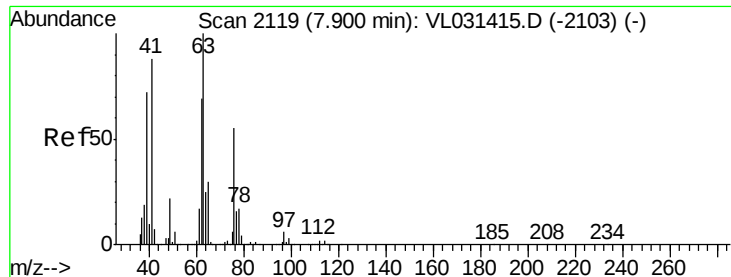
Abundance Ion 130.00 (129.70 to 130.70): V

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





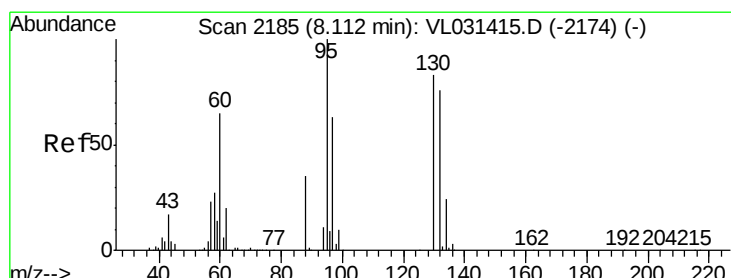
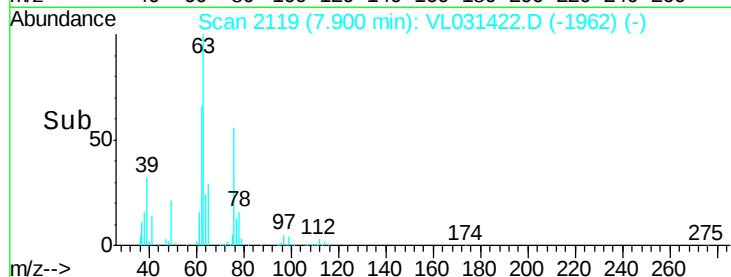
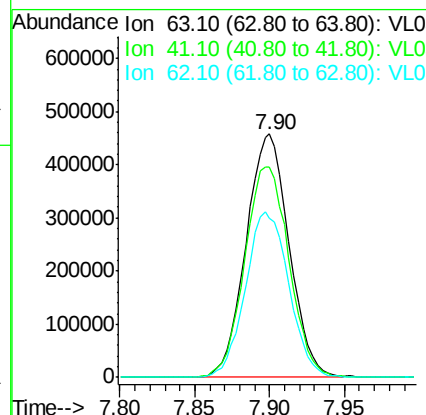
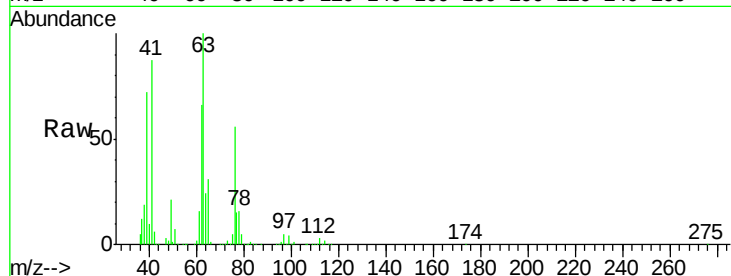
#39
 1,2-Dichloropropane
 Concen: 9.13 ppbv
 RT: 7.90 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion	Ratio	Lower	Upper
63	100		
41	86.5	67.6	101.4
62	65.4	51.8	77.6

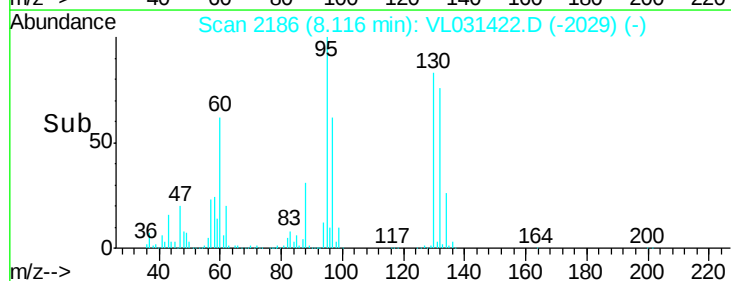
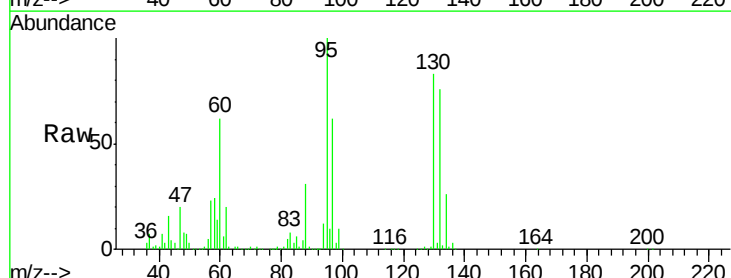
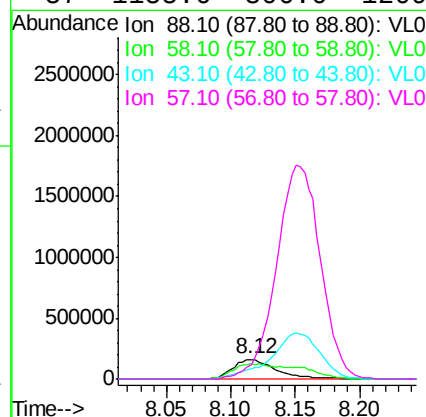
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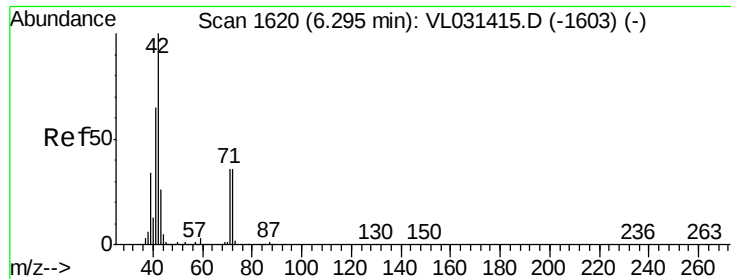
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#40
 1,4-Dioxane
 Concen: 8.82 ppbv
 RT: 8.12 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.9	98.2	147.2
43	279.7	197.3	295.9
57	1155.6	806.0	1209.0





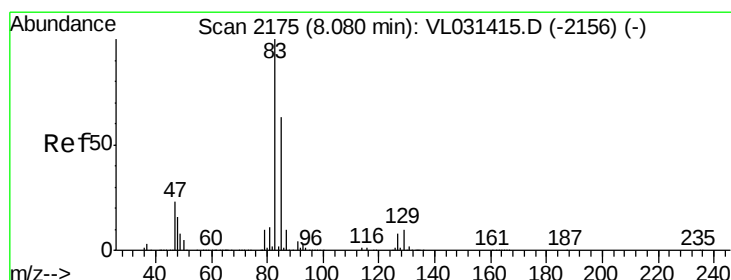
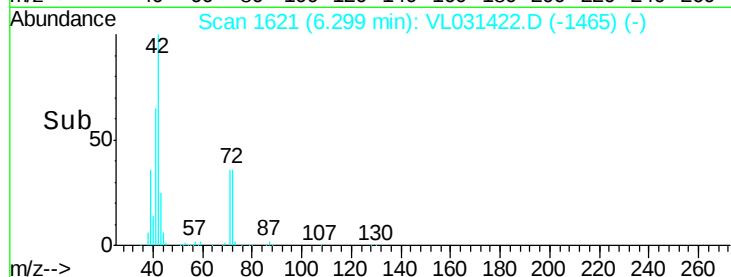
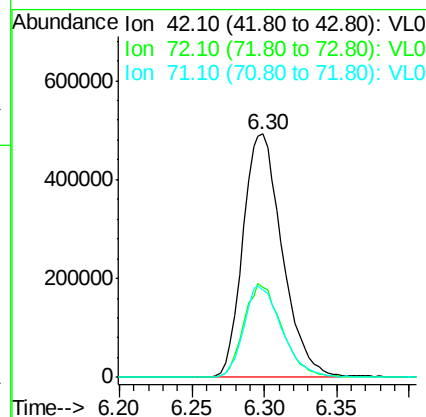
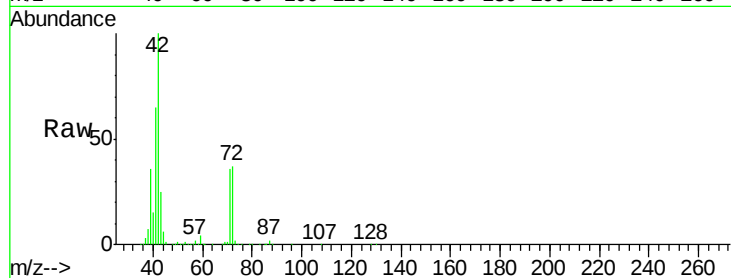
#41
Tetrahydrofuran
Concen: 8.83 ppbv
RT: 6.30 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	30.4	45.6
71	36.9	29.2	43.8

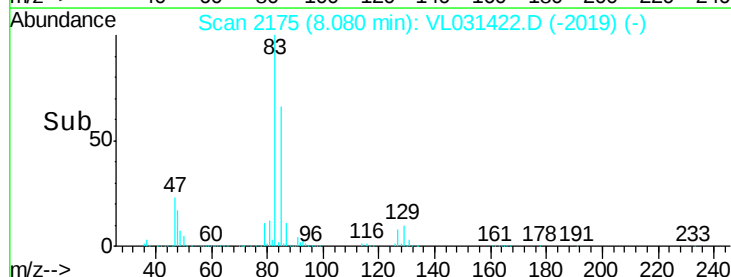
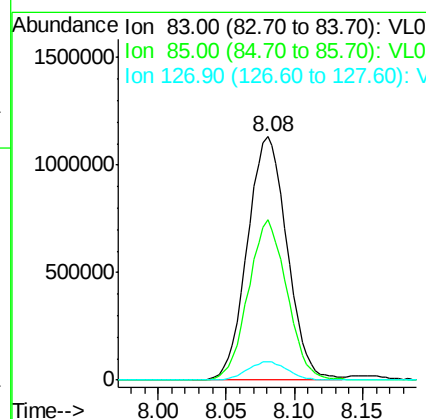
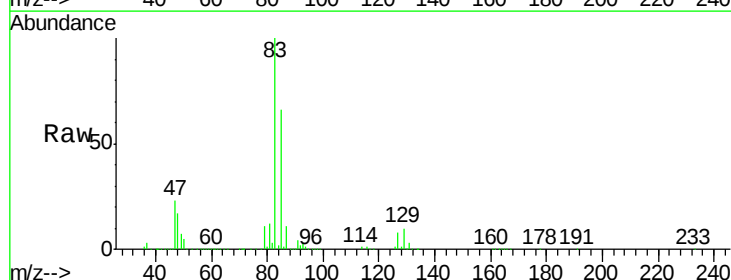
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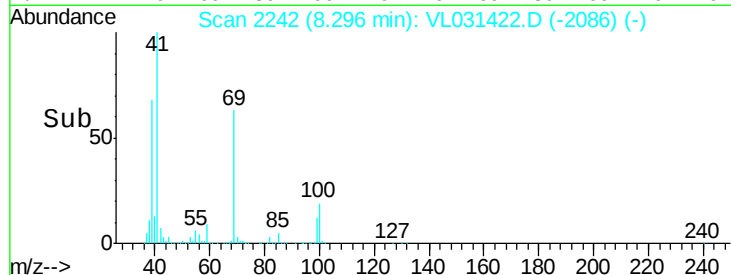
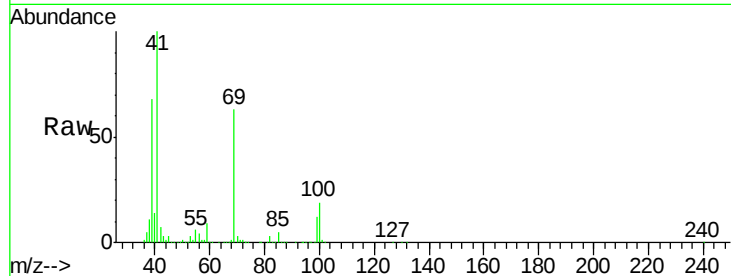
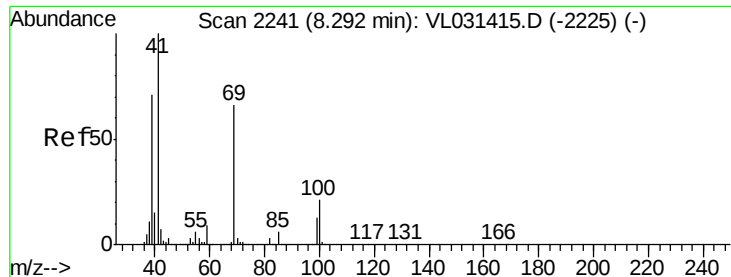
MMDadoda
1/24/2018 5:10:16 PM



#42
Bromodichloromethane
Concen: 9.23 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.1	78.1
127	7.7	6.6	10.0





#43

Methyl Methacrylate

Concen: 9.93 ppbv

RT: 8.30 min Scan# 2242

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tot Ion:	69	Resp:	968407
Ion	Ratio	Lower	Upper
69	100		
41	158.0	127.0	190.6
100	30.7	24.6	37.0

Instrument :

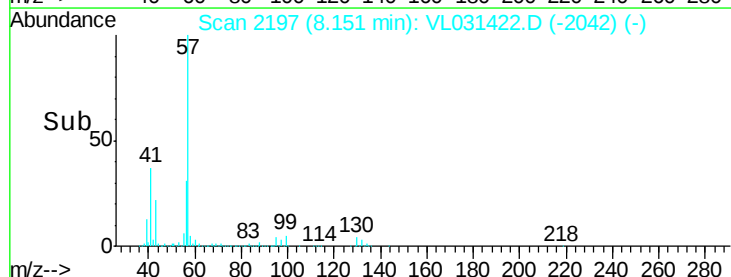
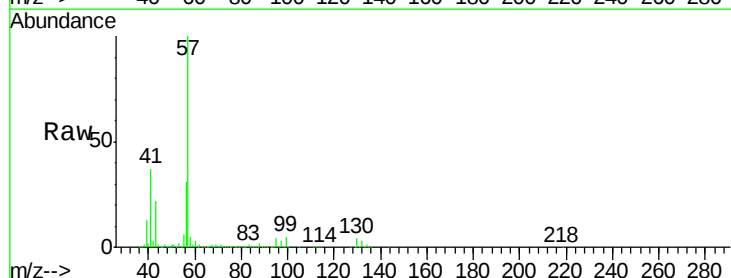
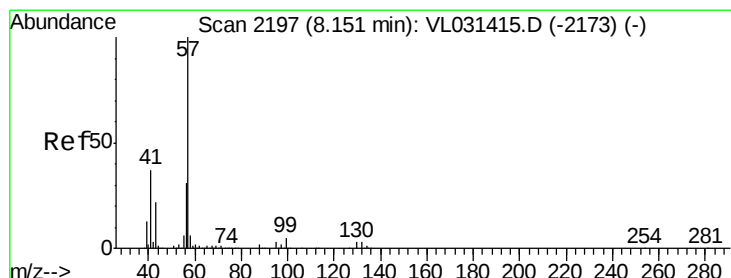
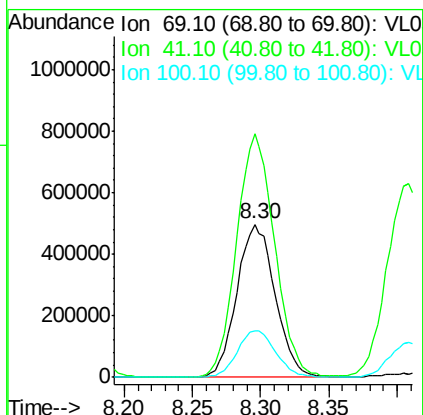
MSVOA_L

ClientSampleId :

ICVVL012218

Manual Integrations
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1/24/2018 5:10:16 PM



#44

2,2,4-Trimethylpentane

Concen: 9.14 ppbv

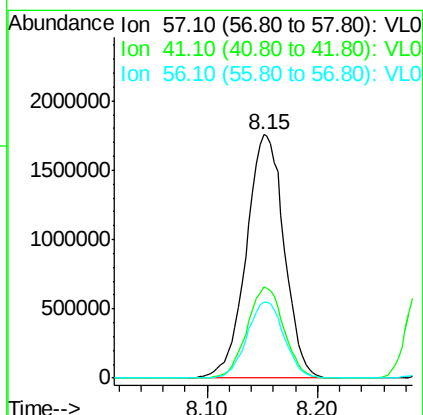
RT: 8.15 min Scan# 2197

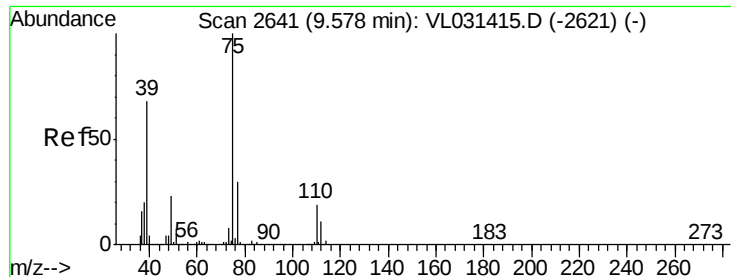
Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tgt Ion:	57	Resp:	4160392
Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.8	43.2
56	30.6	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 10.79 ppbv

RT: 9.58 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 75 Resp: 1509138

Ion Ratio Lower Upper

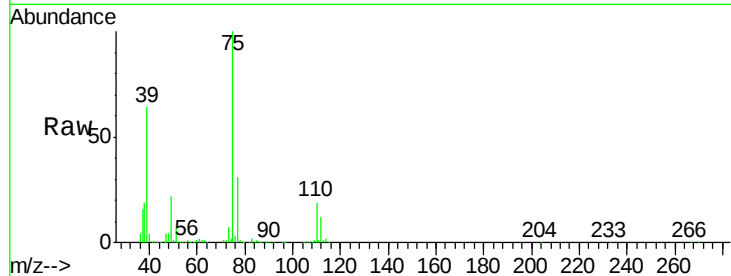
75 100

77 30.7 25.3 37.9

Manual Integrations
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.58

800000

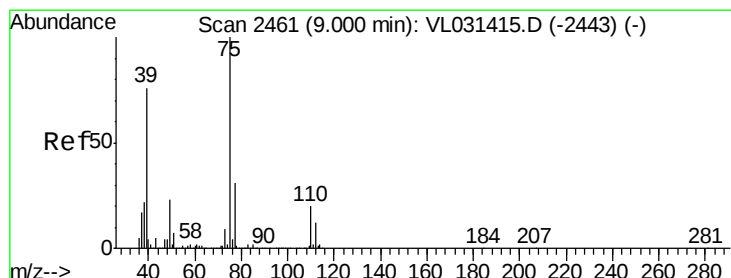
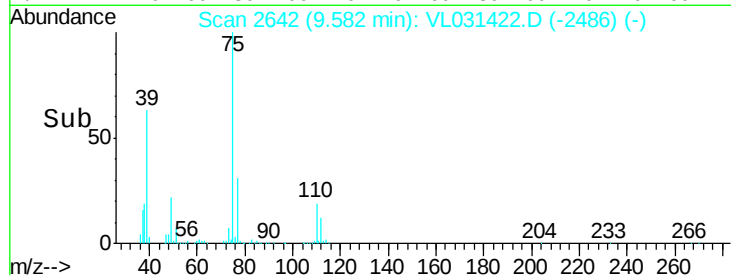
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.19 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

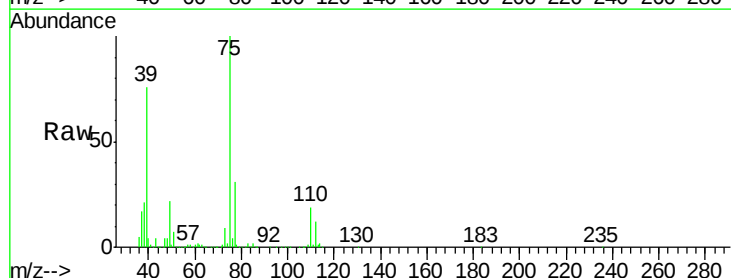
Tgt Ion: 75 Resp: 1749056

Ion Ratio Lower Upper

75 100

39 75.8 59.4 89.0

77 30.9 25.0 37.4



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

9.00

1200000

1000000

800000

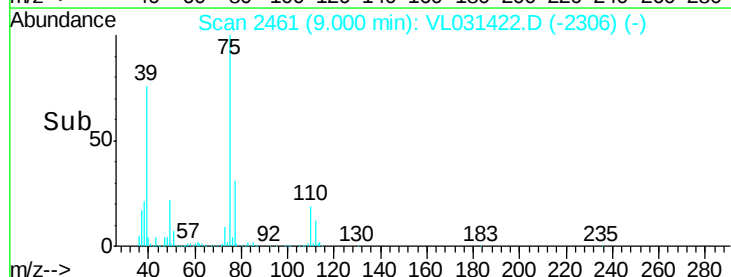
600000

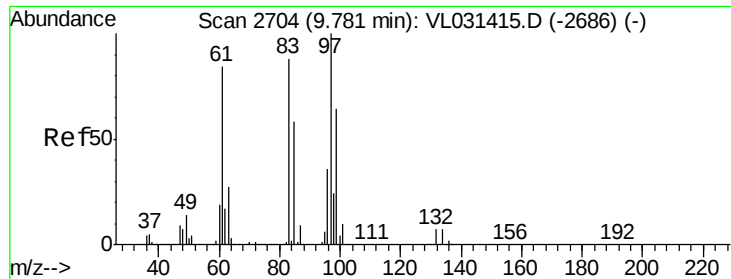
400000

200000

0

Time-->





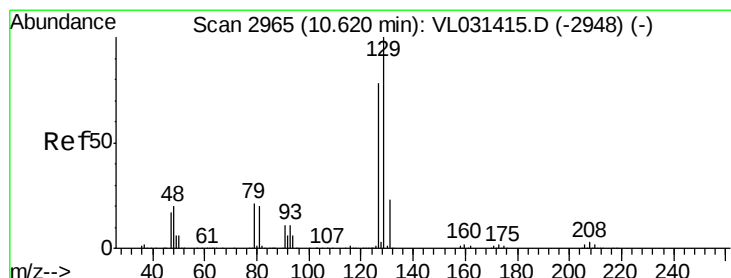
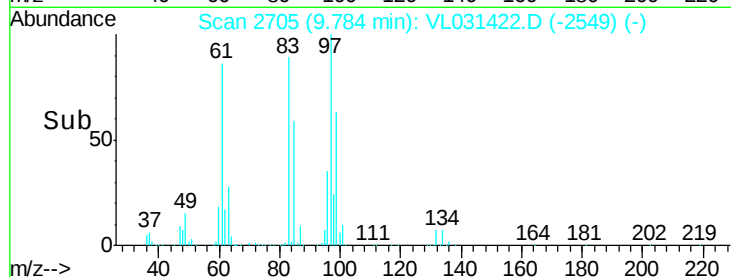
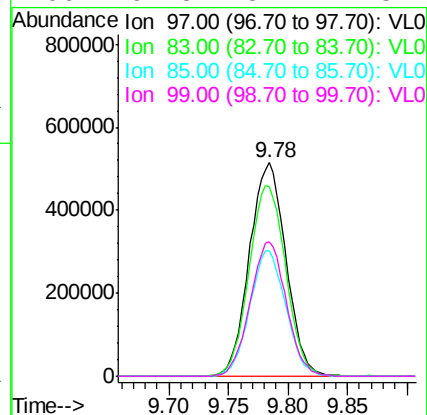
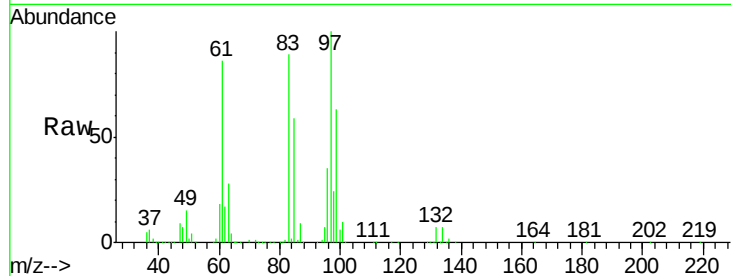
#47
 1,1,2-Trichloroethane
 Concen: 9.25 ppbv
 RT: 9.78 min Scan# 2705
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.7	71.4	107.2	
85	58.9	46.2	69.2	
99	62.8	52.2	78.2	

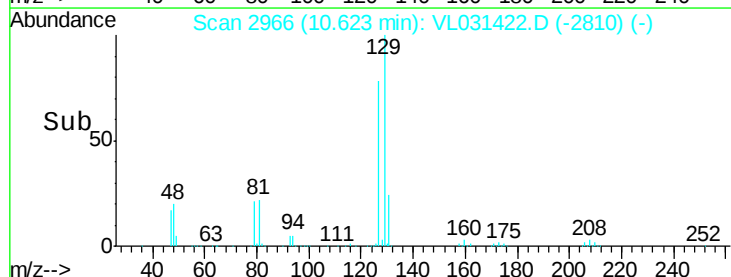
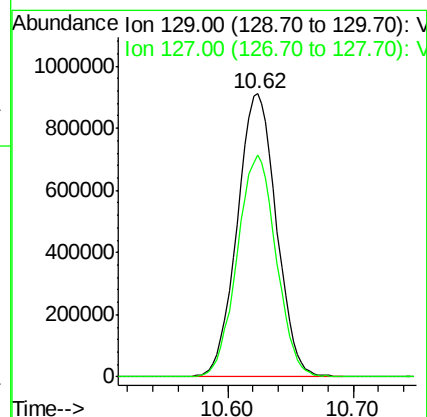
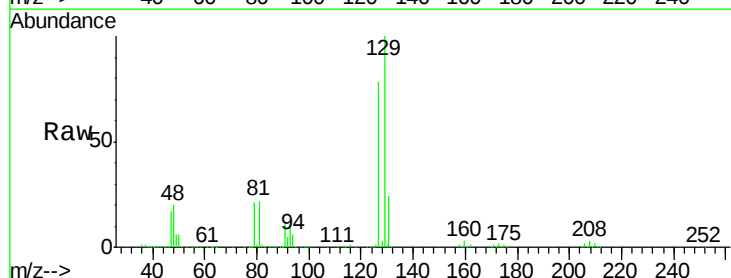
Manual Integrations
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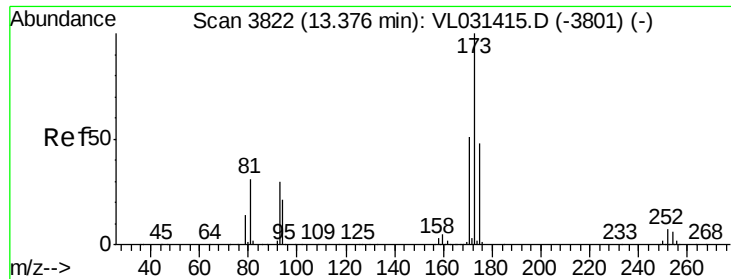
MMDadoda
 1/24/2018 5:10:16 PM



#48
 Dibromochloromethane
 Concen: 9.42 ppbv
 RT: 10.62 min Scan# 2966
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.4	118.1	





#49

Bromoform

Concen: 9.66 ppbv

RT: 13.38 min Scan# 3822

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:173 Resp: 1541260

Ion Ratio Lower Upper

173 100

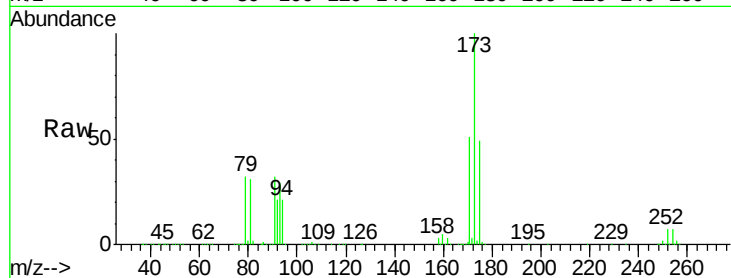
175 49.2 39.0 58.4

171 52.2 42.0 63.0

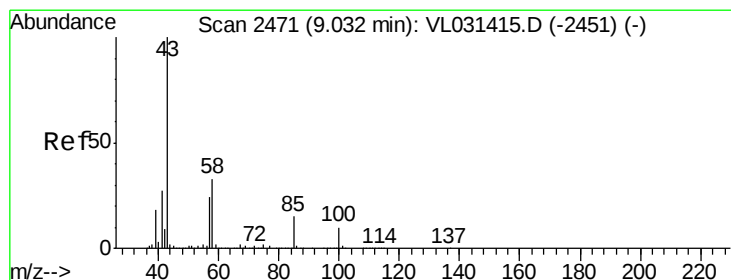
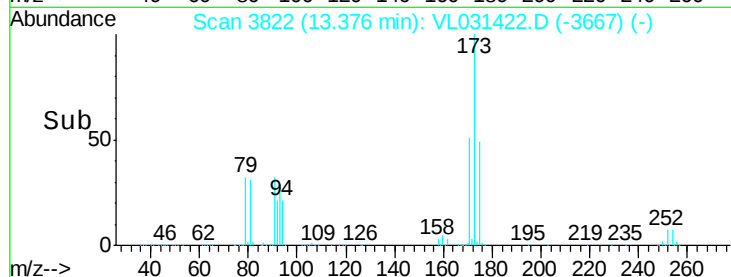
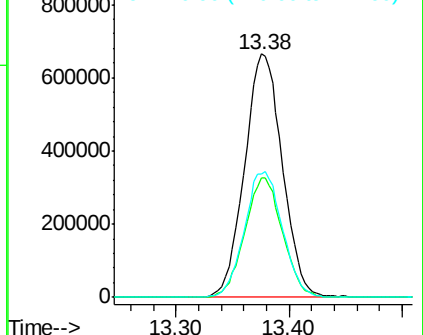
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.48 ppbv

RT: 9.03 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VL031422.D

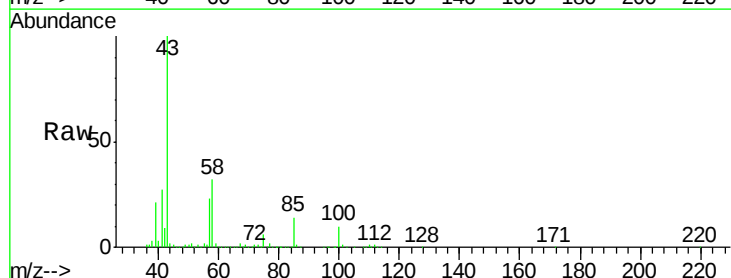
Acq: 22 Jan 2018 18:33

Tgt Ion: 43 Resp: 2423667

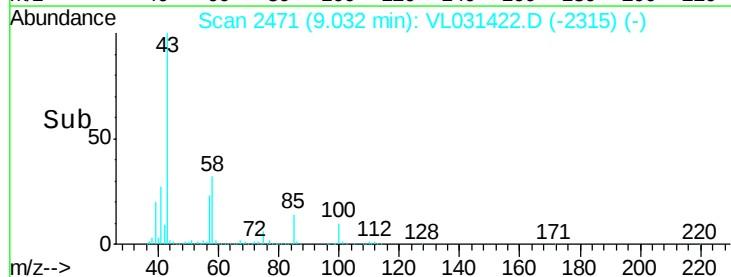
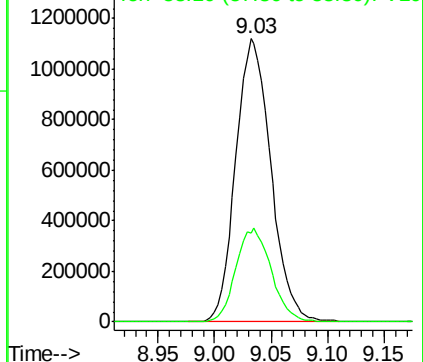
Ion Ratio Lower Upper

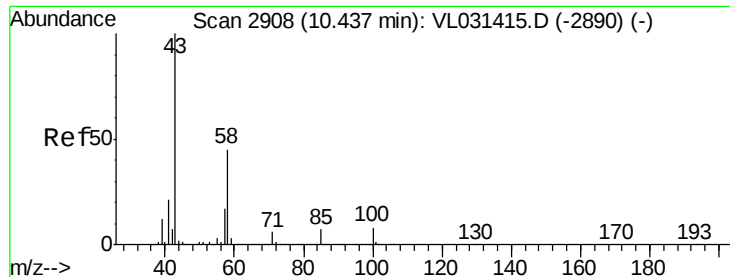
43 100

58 33.4 27.1 40.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.34 ppbv

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampled :

ICVVL012218

Tot Ion: 43 Resp: 2276999

Ion Ratio Lower Upper

43 100

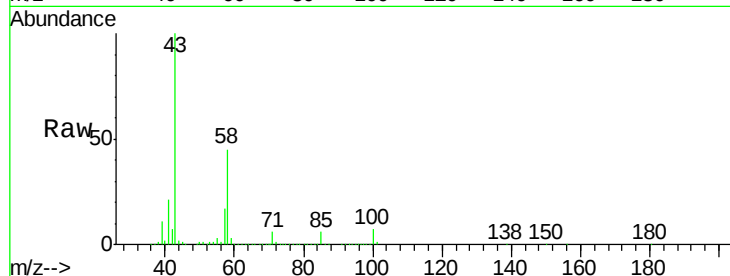
58 44.8 36.2 54.4

98 0.3 0.1 0.1#

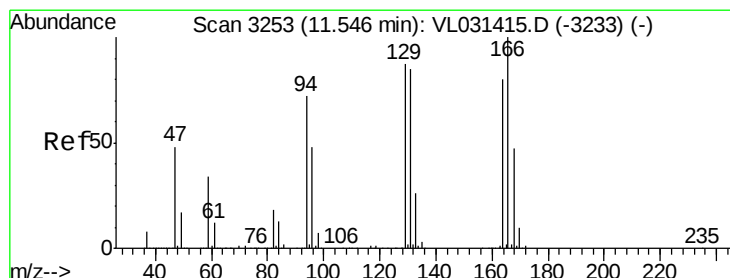
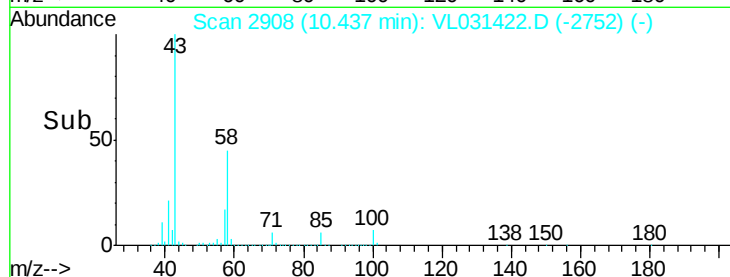
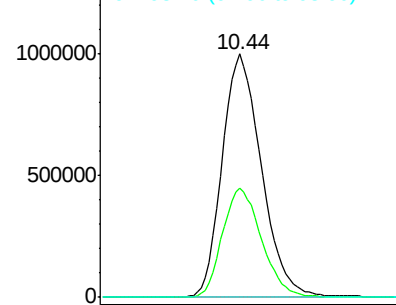
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.69 ppbv

RT: 11.54 min Scan# 3252

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tgt Ion: 164 Resp: 971110

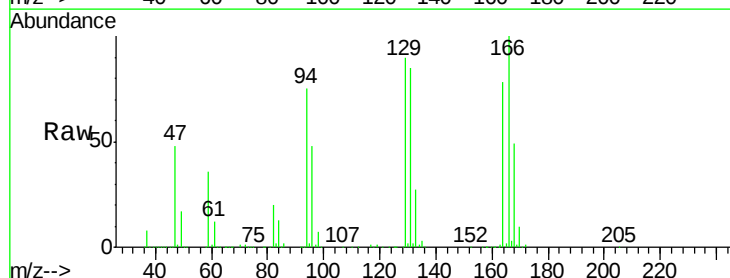
Ion Ratio Lower Upper

164 100

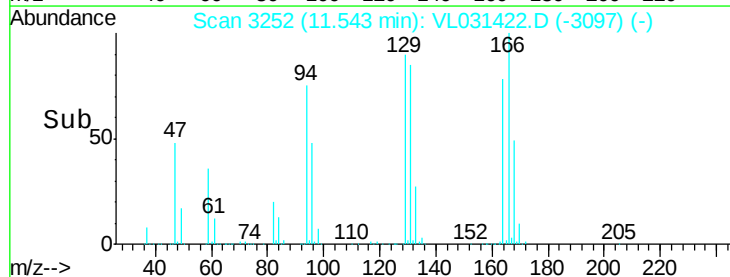
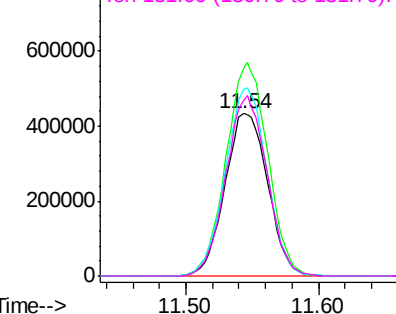
166 128.0 100.2 150.2

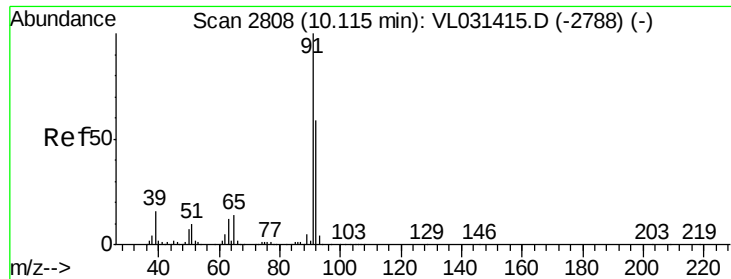
129 115.2 91.4 137.0

131 108.0 87.4 131.0



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.68 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 91 Resp: 3049041

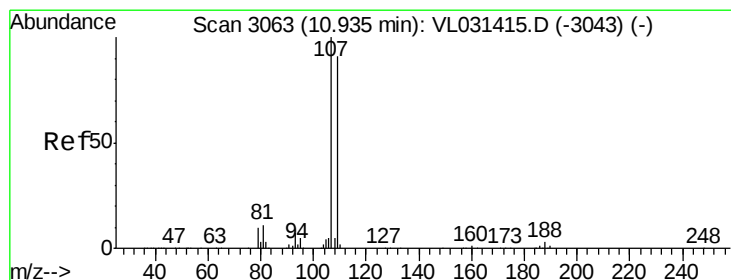
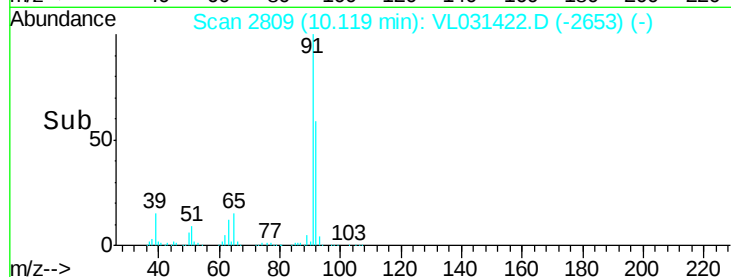
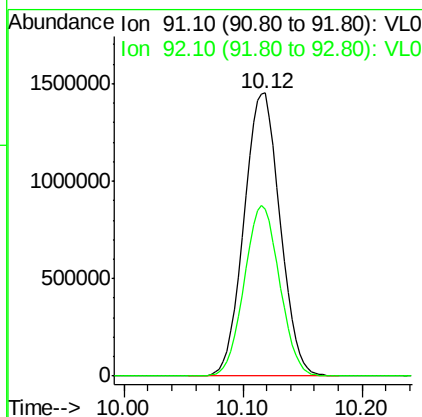
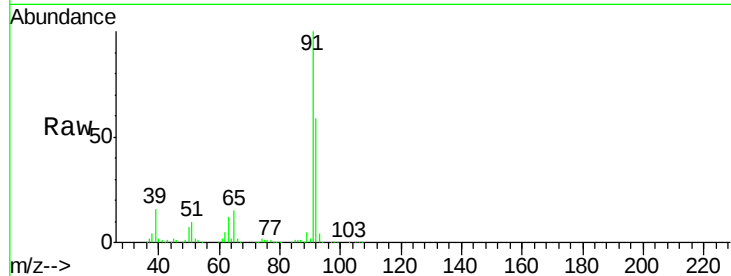
Ion Ratio Lower Upper

91 100

92 59.2 47.8 71.6

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#54

1,2-Dibromoethane

Concen: 9.45 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VL031422.D

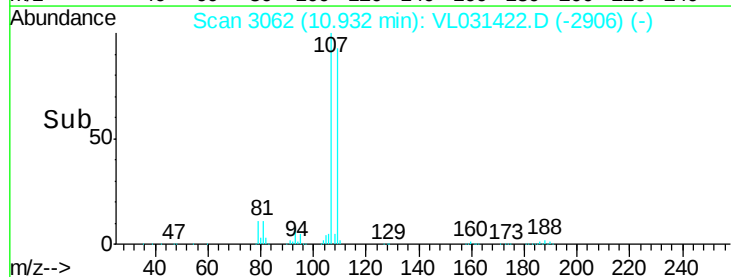
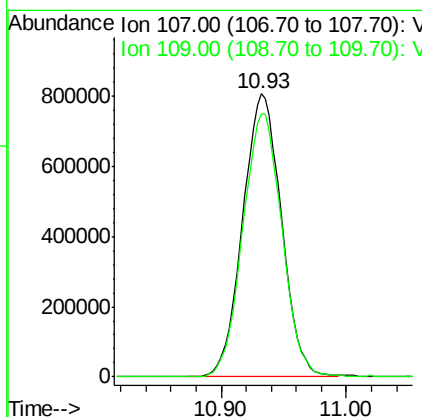
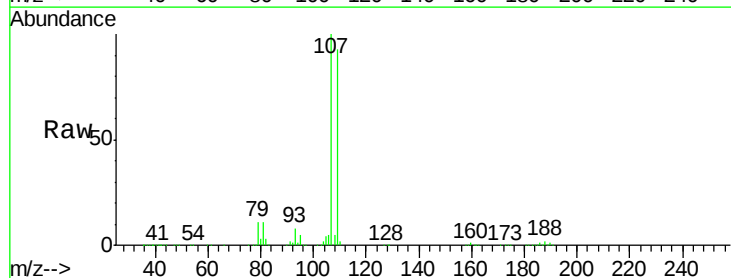
Acq: 22 Jan 2018 18:33

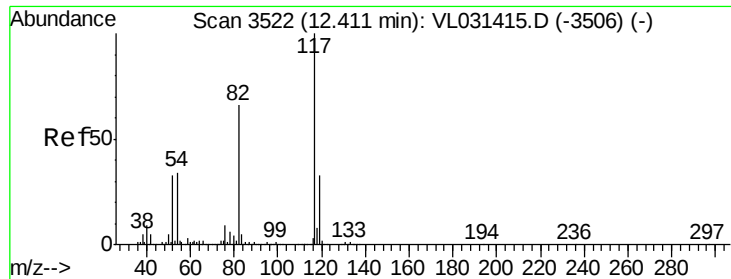
Tgt Ion:107 Resp: 1729974

Ion Ratio Lower Upper

107 100

109 92.9 75.5 113.3





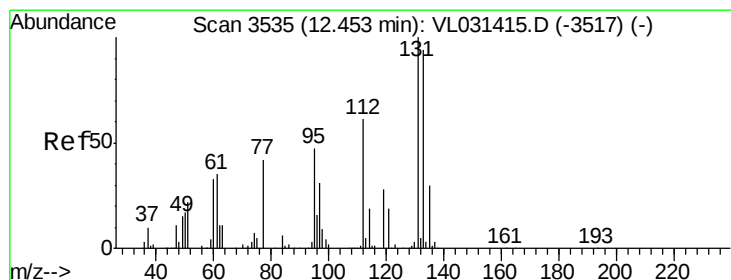
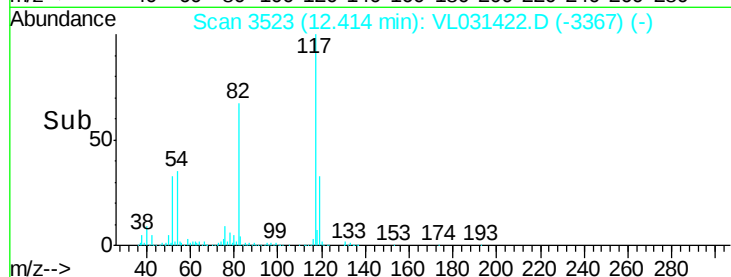
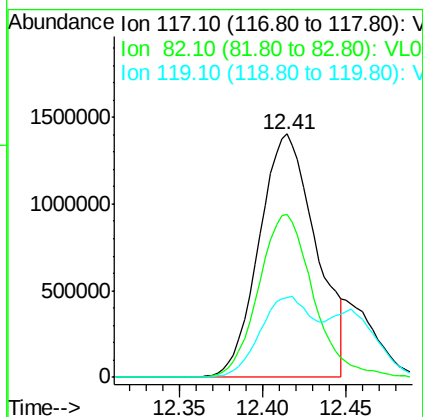
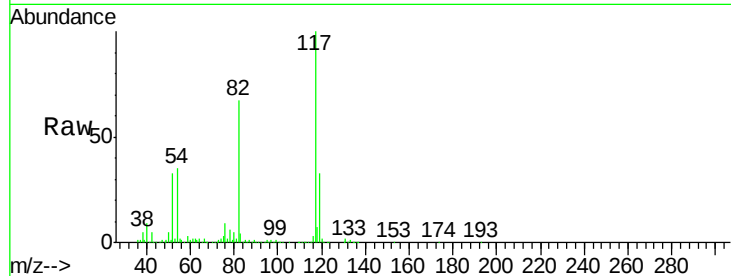
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.41 min Scan# 3523
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.8	51.8	77.6
119	32.4	24.2	36.2

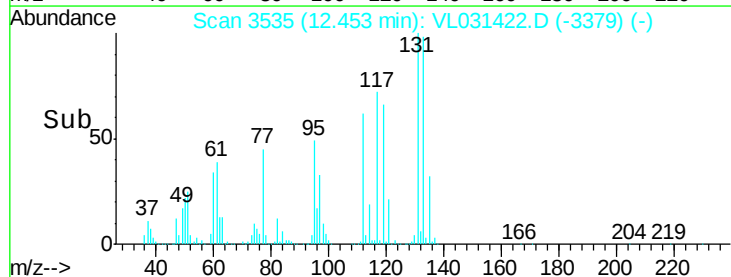
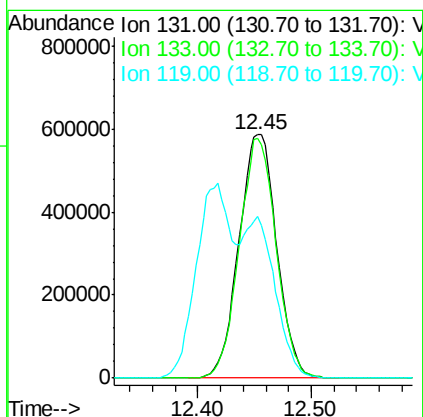
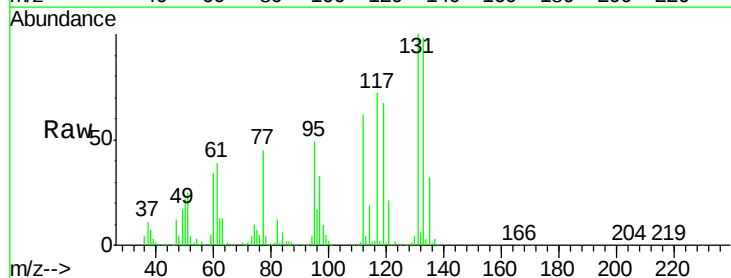
Manual Integrations
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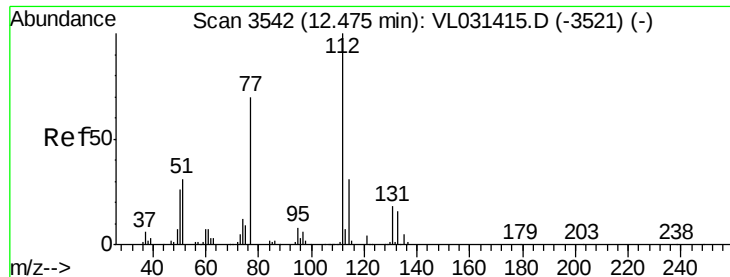
MMDadoda
1/24/2018 5:10:16 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.63 ppbv
RT: 12.45 min Scan# 3535
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.2	76.9	115.3
119	133.8	47.7	71.5#





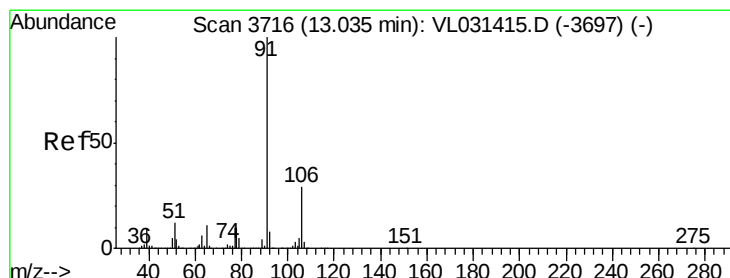
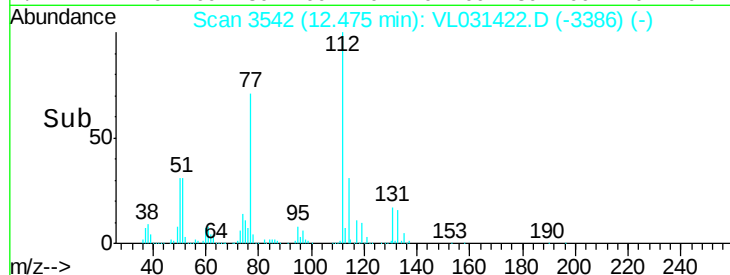
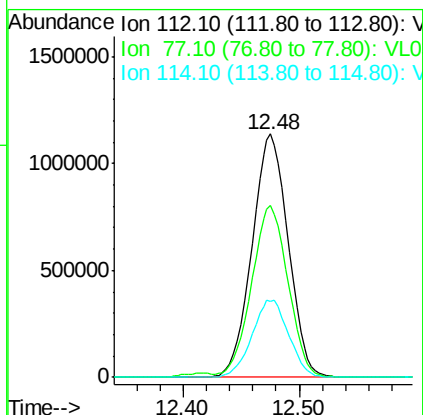
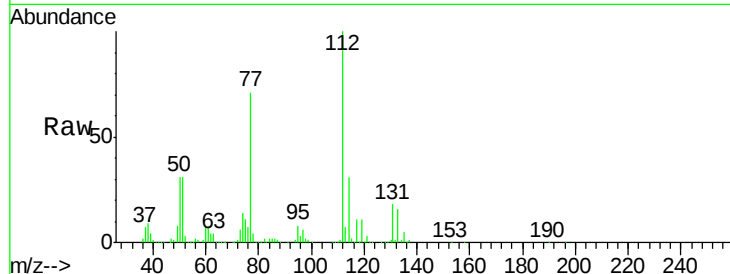
#57
Chlorobenzene
Concen: 8.57 ppbv
RT: 12.48 min Scan# 3542
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.4	56.0	84.0
114	31.2	29.1	35.5

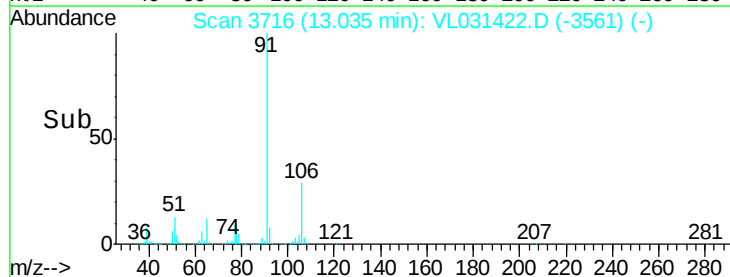
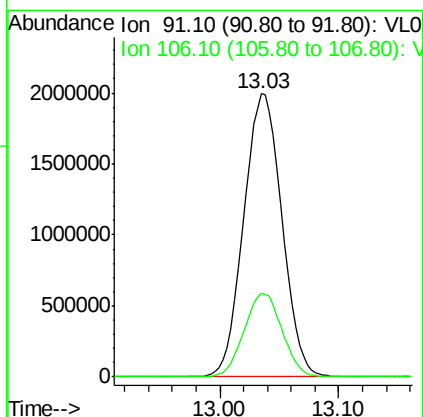
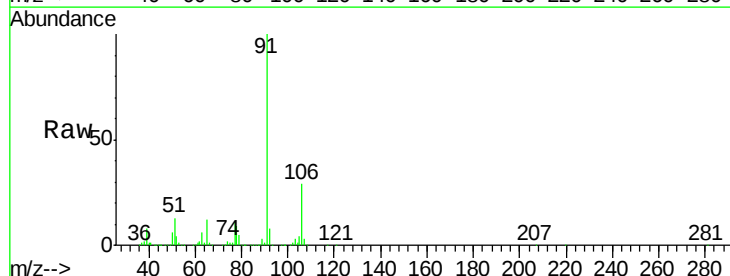
Manual Integrations
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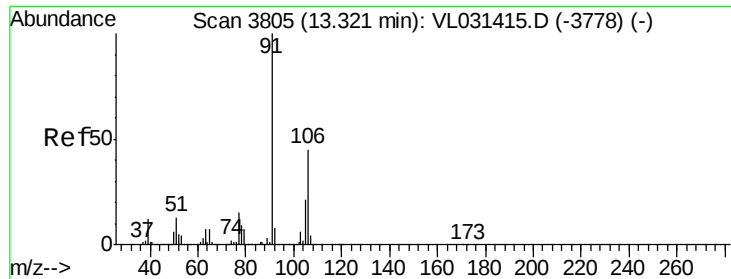
MMDadoda
1/24/2018 5:10:16 PM



#58
Ethyl Benzene
Concen: 9.09 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.8	35.6





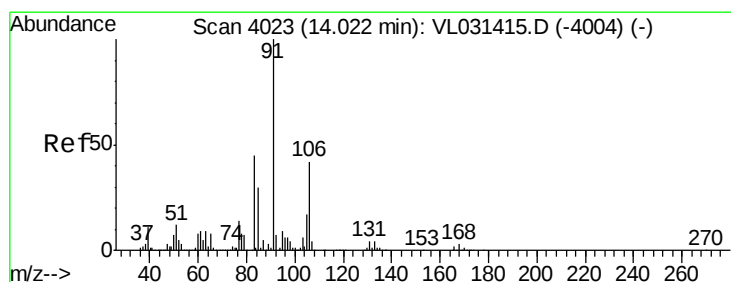
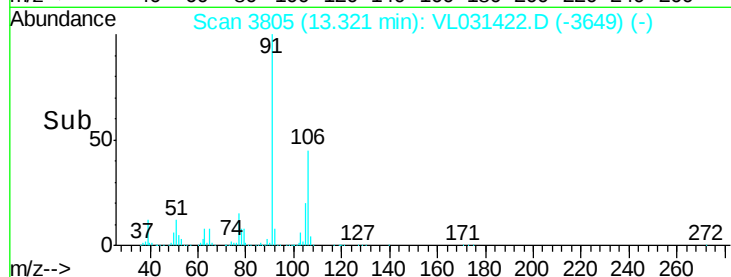
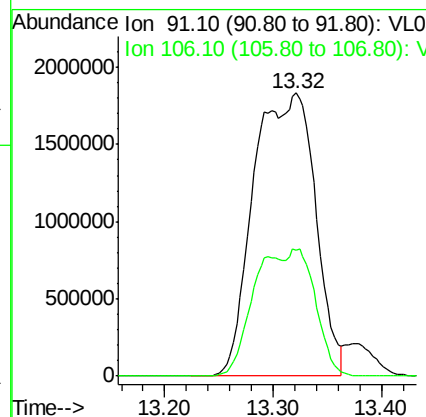
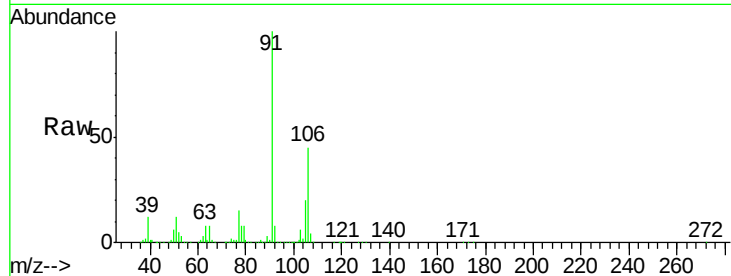
#59
m/p-Xylene
Concen: 17.30 ppbv m
RT: 13.32 min Scan# 3805
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion: 91 Resp: 7220495
Ion Ratio Lower Upper
91 100
106 44.0 35.6 53.4

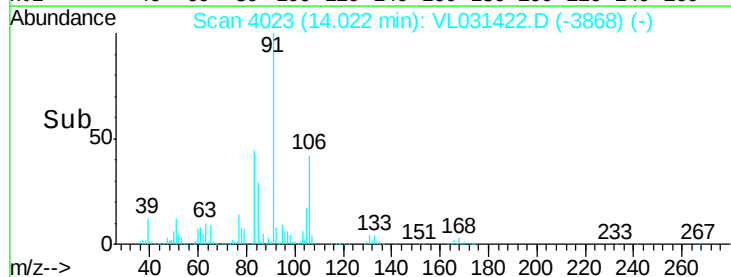
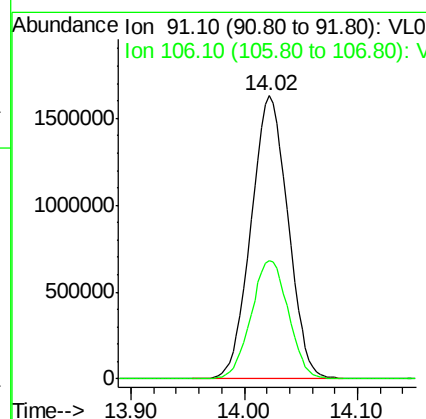
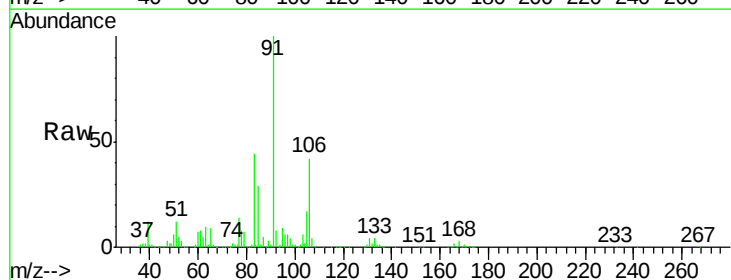
Manual Integrations
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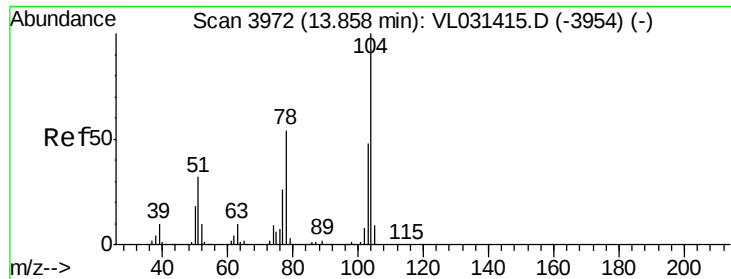
MMDadoda
1/24/2018 5:10:16 PM



#60
o-Xylene
Concen: 8.84 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion: 91 Resp: 3691986
Ion Ratio Lower Upper
91 100
106 42.3 21.3 64.0





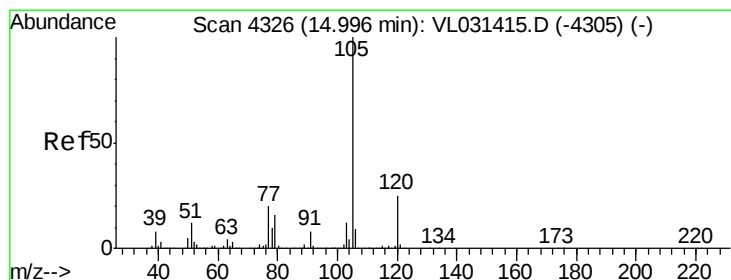
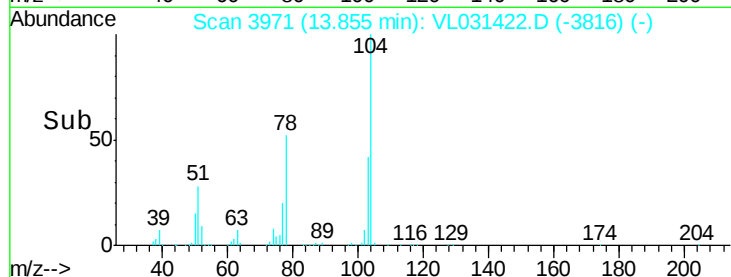
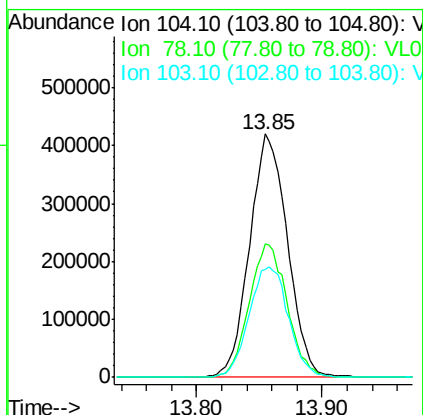
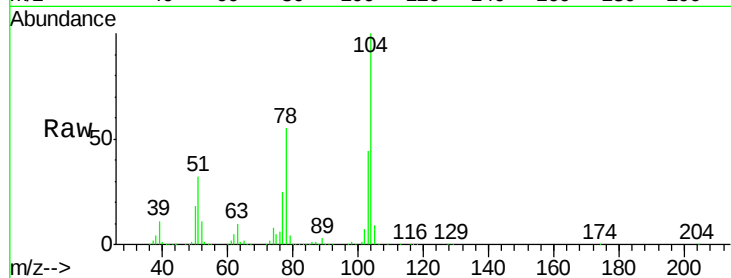
#61
Stvrene
Concen: 9.71 ppbv
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.0	45.4	68.0
103	47.4	38.6	57.8

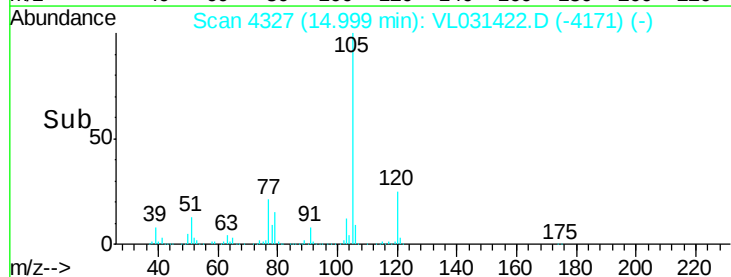
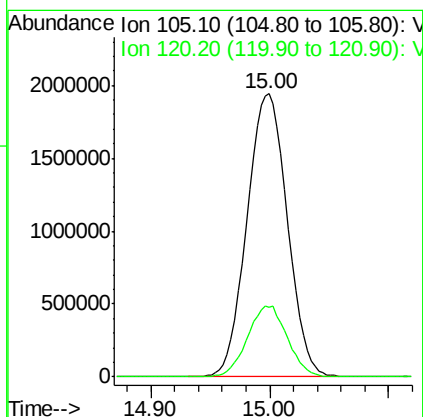
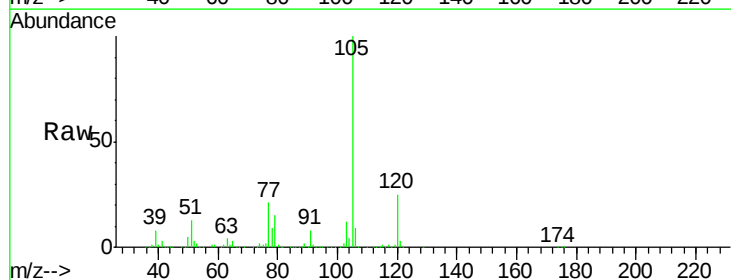
Manual Integrations
APPROVED

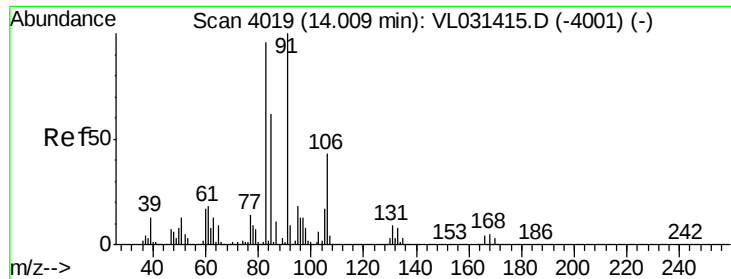
MMDadoda
1/24/2018 5:10:16 PM



#62
Isopropylbenzene
Concen: 8.70 ppbv
RT: 15.00 min Scan# 4327
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 8.48 ppbv

RT: 14.01 min Scan# 4019

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion: 83 Resp: 2436765

Ion Ratio Lower Upper

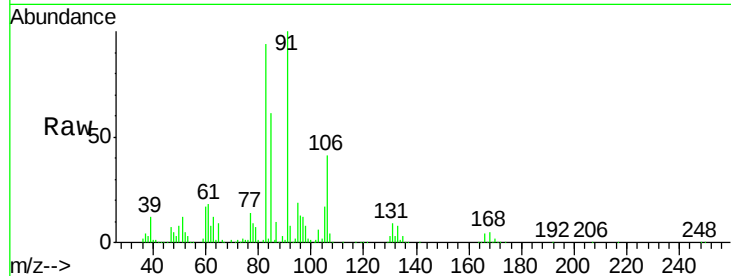
83 100

131 9.4 4.8 14.3

85 64.2 32.4 97.0

Manual Integrations
APPROVED

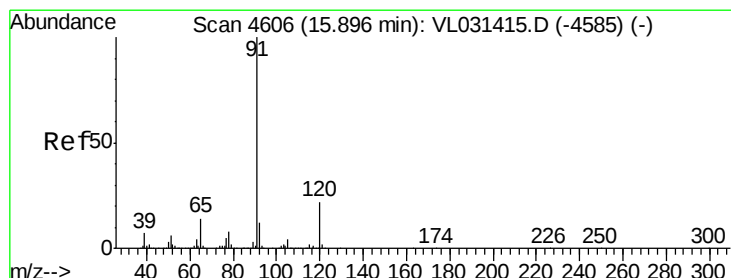
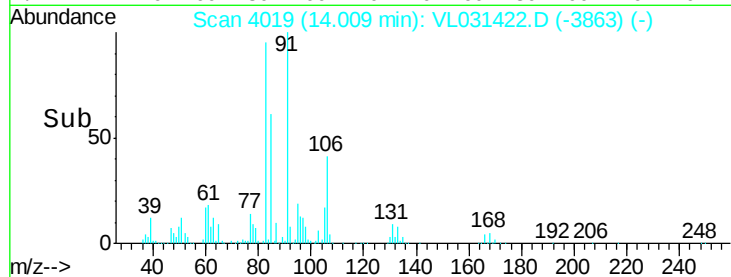
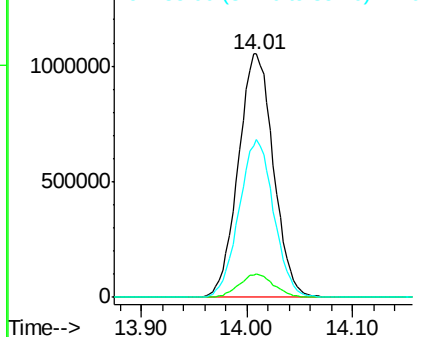
MMDadoda
1/24/2018 5:10:16 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.85 ppbv

RT: 15.89 min Scan# 4605

Delta R.T. -0.00 min

Lab File: VL031422.D

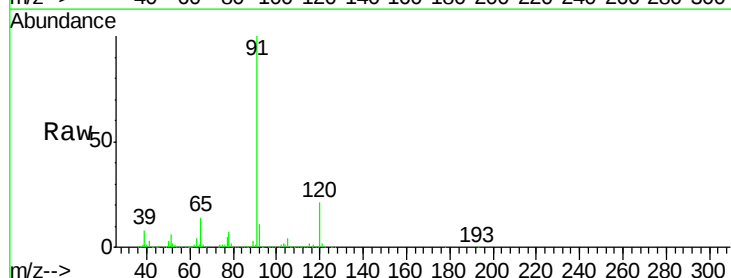
Acq: 22 Jan 2018 18:33

Tgt Ion:120 Resp: 1150349

Ion Ratio Lower Upper

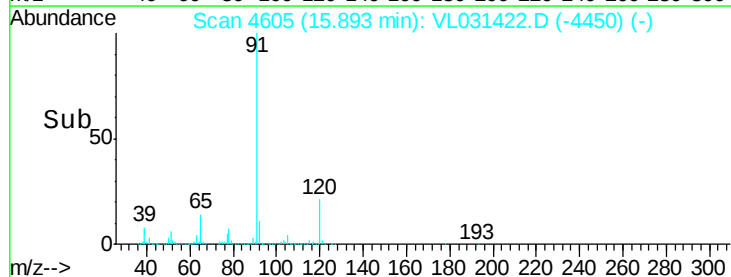
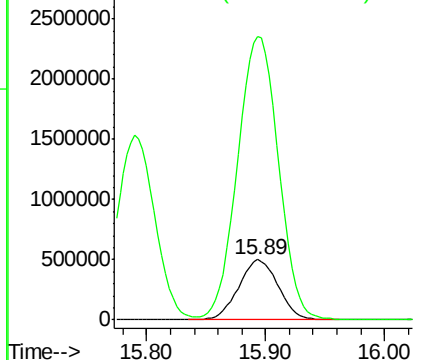
120 100

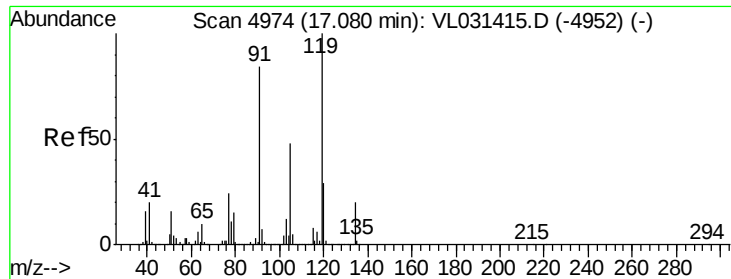
91 488.5 389.8 584.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.65 ppbv

RT: 17.08 min Scan# 4974

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:119 Resp: 3999556

Ion Ratio Lower Upper

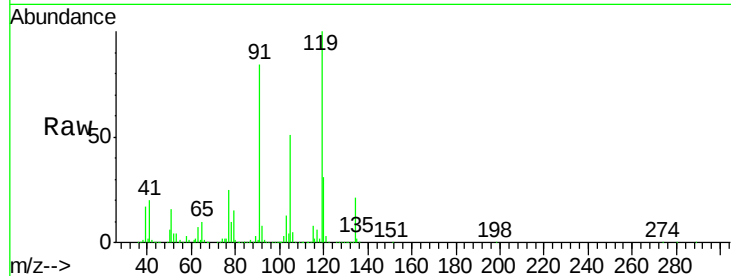
119 100

91 85.8 69.0 103.6

134 19.6 15.7 23.5

Manual Integrations
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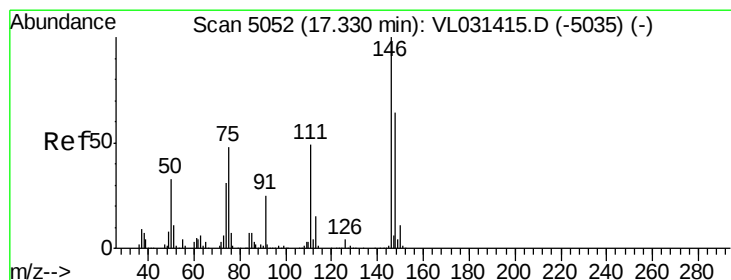
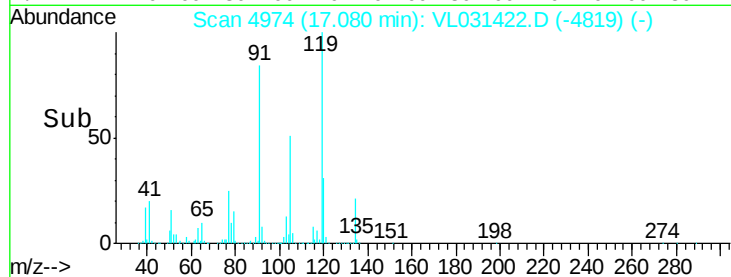
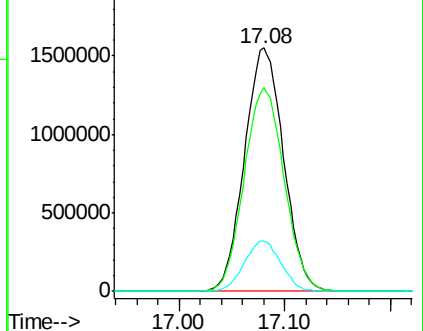
MMDadoda
1/24/2018 5:10:16 PM



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: 11.87 ppbv

RT: 17.33 min Scan# 5051

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

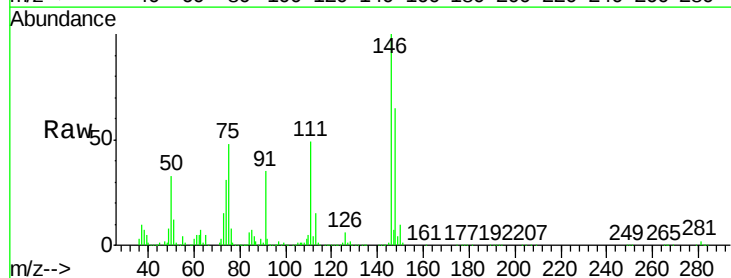
Tgt Ion: 91 Resp: 547998

Ion Ratio Lower Upper

91 100

126 17.4 13.8 20.8

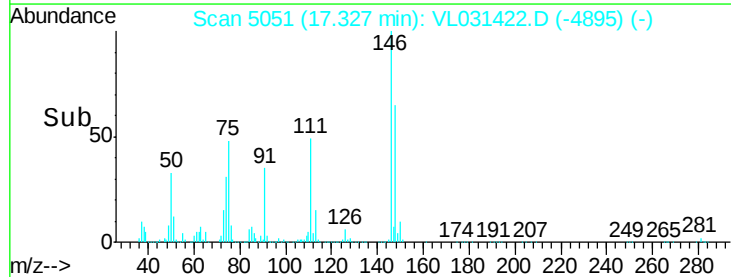
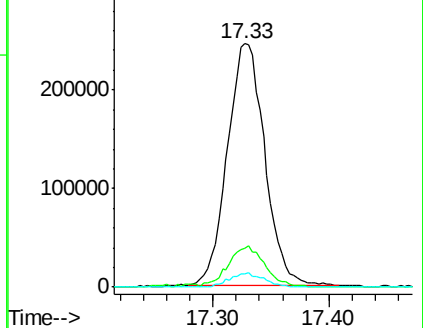
128 5.6 4.6 6.8

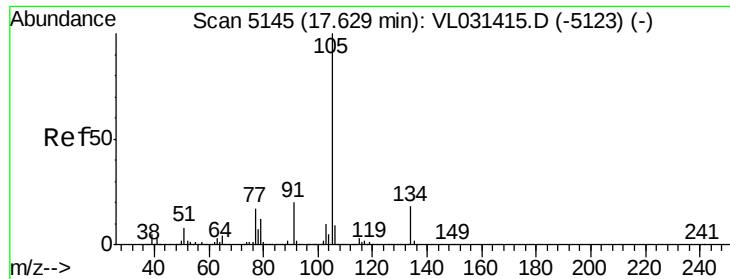


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.72 ppbv

RT: 17.63 min Scan# 5145

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:105 Resp: 5632684

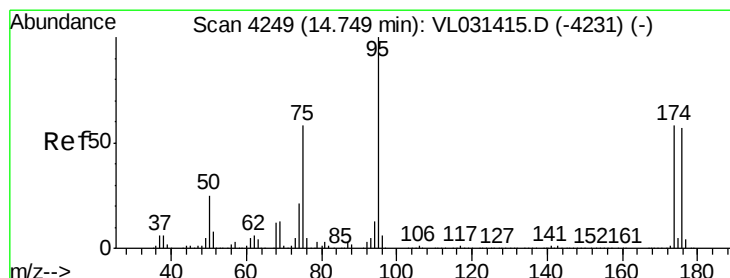
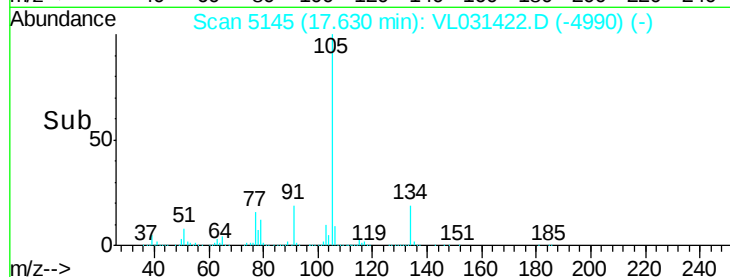
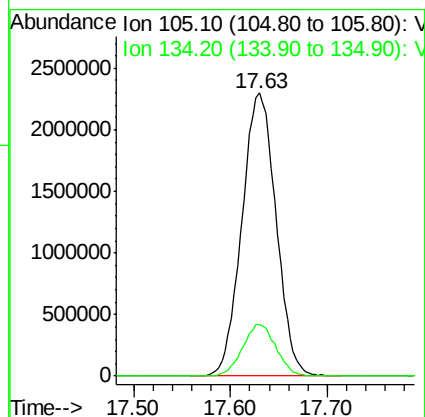
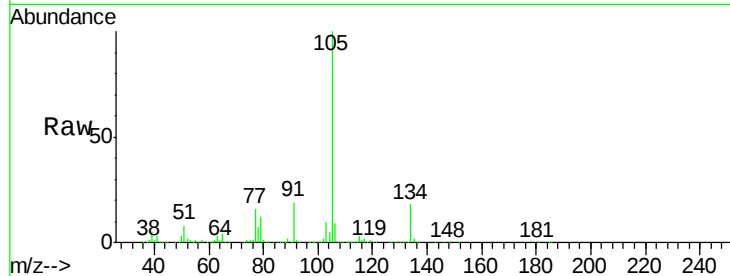
Ion Ratio Lower Upper

105 100

134 18.0 14.5 21.7

Manual Integrations
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1/24/2018 5:10:16 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.60 ppbv

RT: 14.75 min Scan# 4250

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

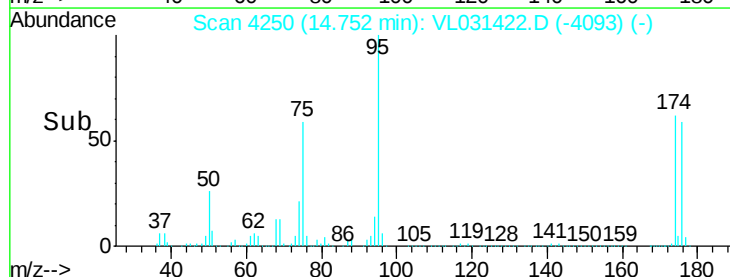
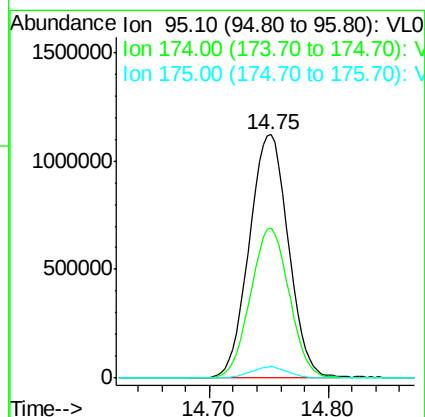
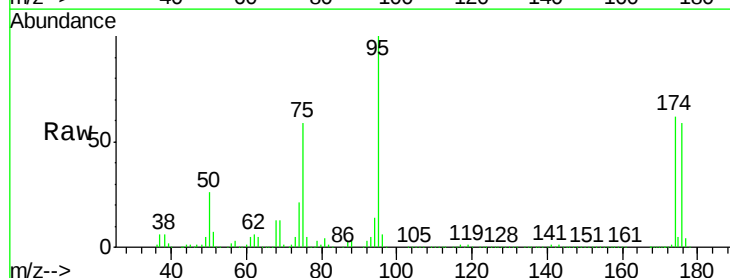
Tgt Ion: 95 Resp: 2558232

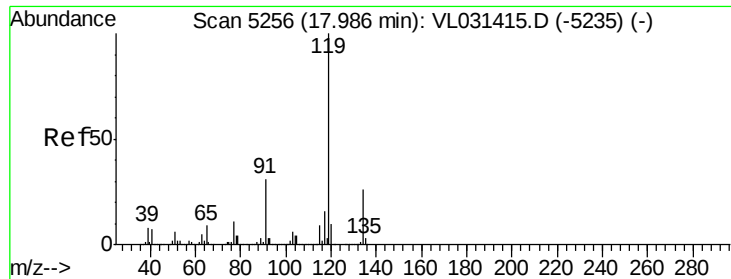
Ion Ratio Lower Upper

95 100

174 61.5 48.2 72.4

175 4.5 3.6 5.4





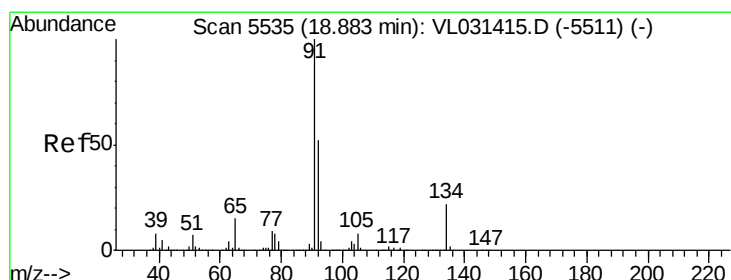
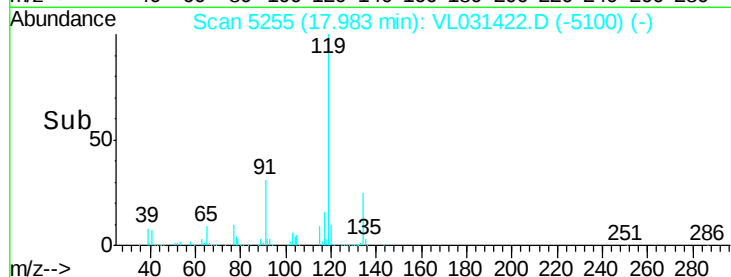
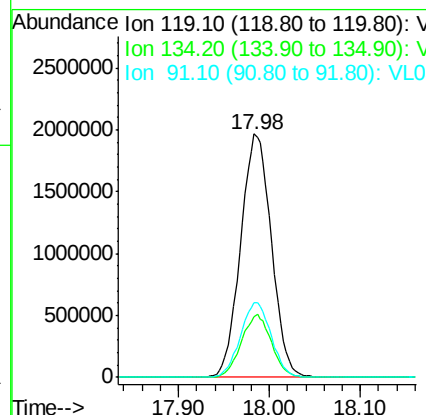
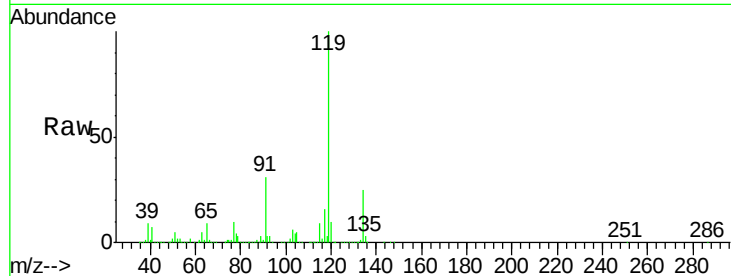
#69
 p-Isopropyltoluene
 Concen: 8.88 ppbv
 RT: 17.98 min Scan# 5256
 Delta R.T. -0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.4
91	30.9	25.0	37.4

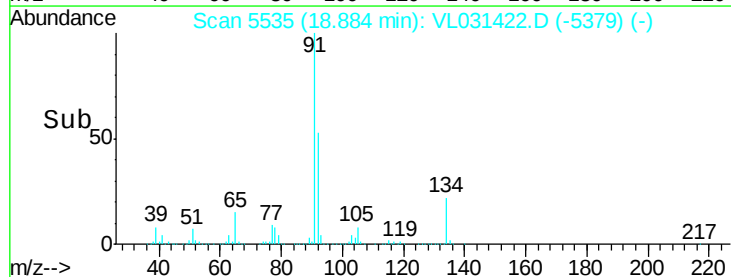
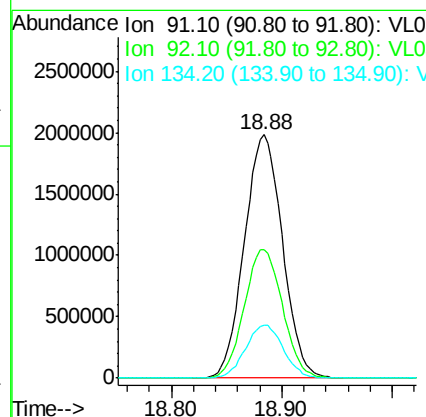
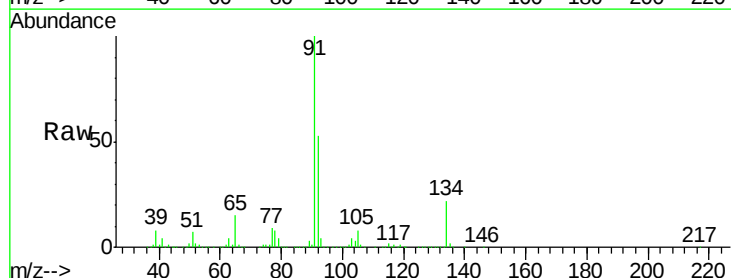
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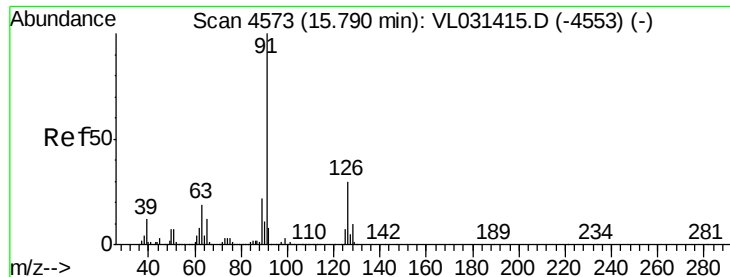
MMDadoda
 1/24/2018 5:10:16 PM



#70
 n-Butylbenzene
 Concen: 8.80 ppbv
 RT: 18.88 min Scan# 5535
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.2	63.4
134	21.7	17.4	26.2





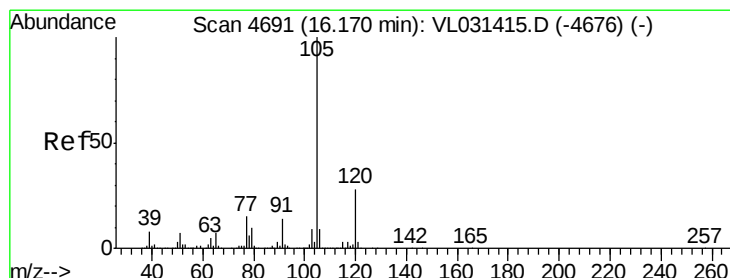
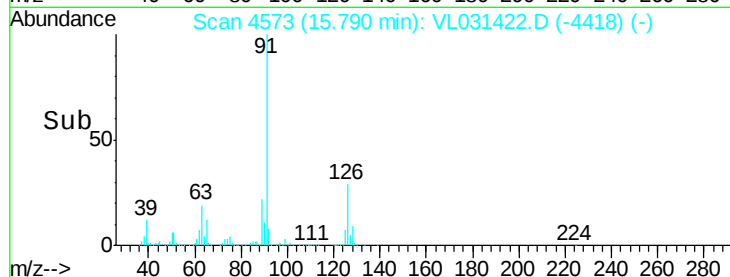
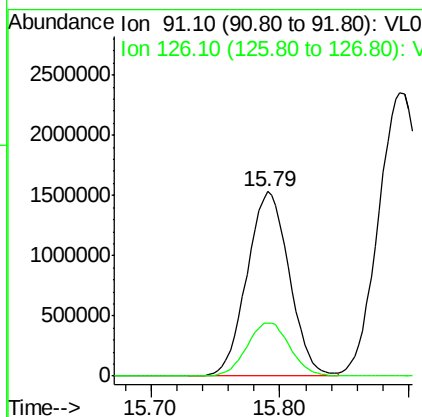
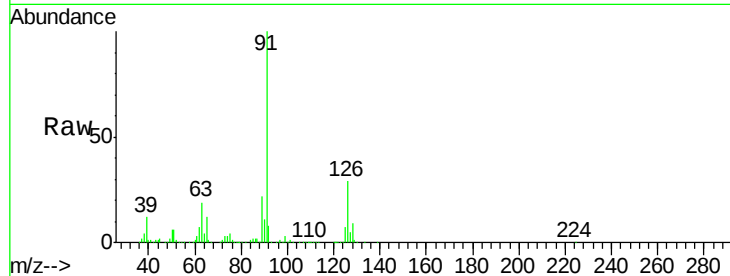
#71
 2-Chlorotoluene
 Concen: 8.83 ppbv
 RT: 15.79 min Scan# 4573
 Delta R.T. -0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion: 91 Resp: 3490467
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.7 46.9

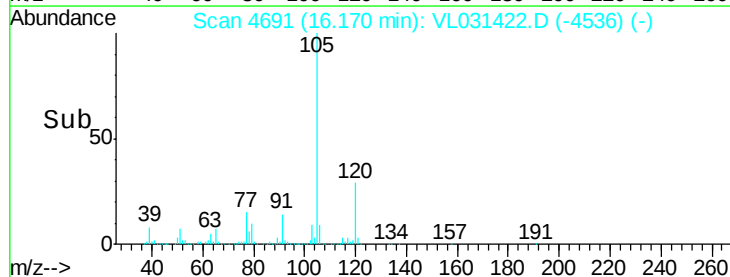
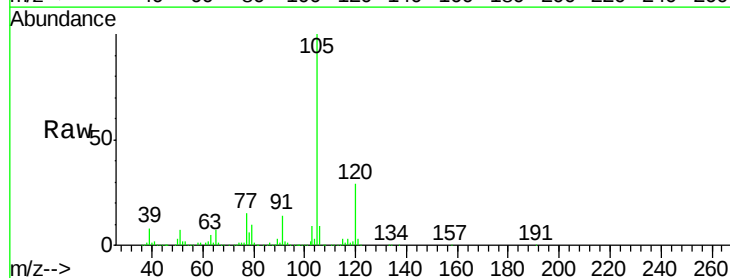
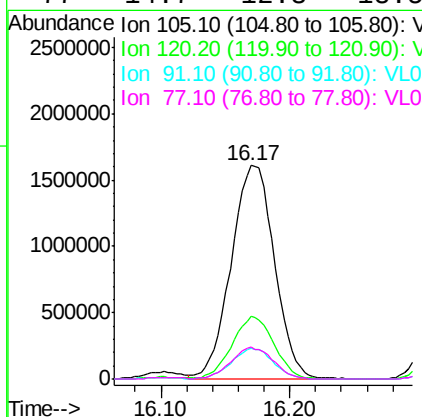
Manual Integrations
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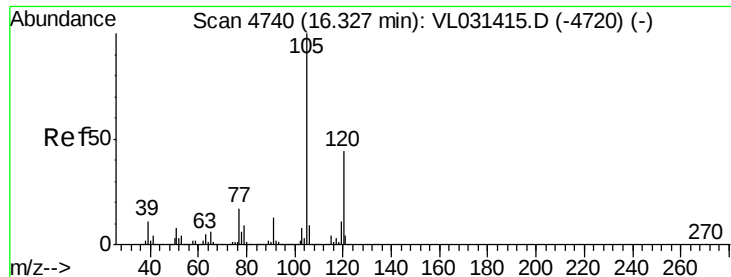
MMDadoda
 1/24/2018 5:10:16 PM



#72
 4-Ethyltoluene
 Concen: 8.87 ppbv
 RT: 16.17 min Scan# 4691
 Delta R.T. -0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion: 105 Resp: 3742746
 Ion Ratio Lower Upper
 105 100
 120 28.6 23.0 34.6
 91 14.0 11.0 16.4
 77 14.7 12.3 18.5





#73

1,3,5-Trimethylbenzene

Concen: 8.76 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:105 Resp: 3362996

Ion Ratio Lower Upper

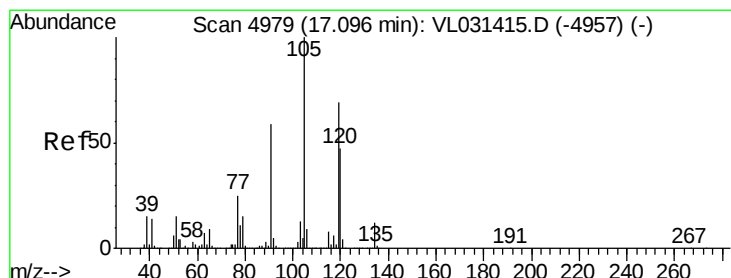
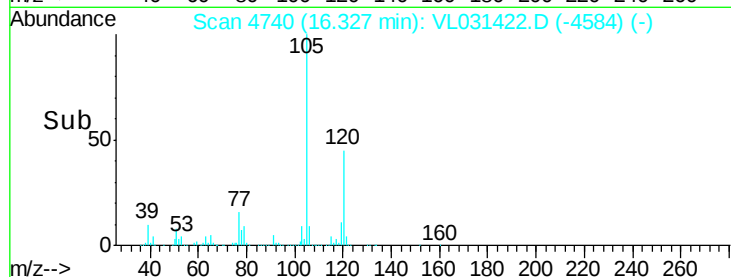
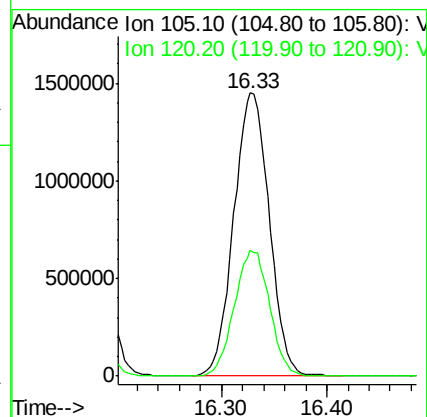
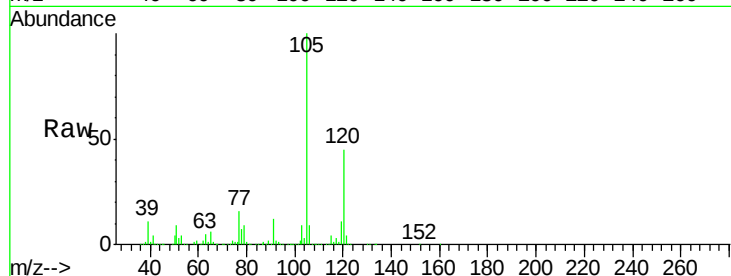
105 100

120 44.7 35.8 53.6

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 8.49 ppbv

RT: 17.10 min Scan# 4980

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Tgt Ion:105 Resp: 3608844

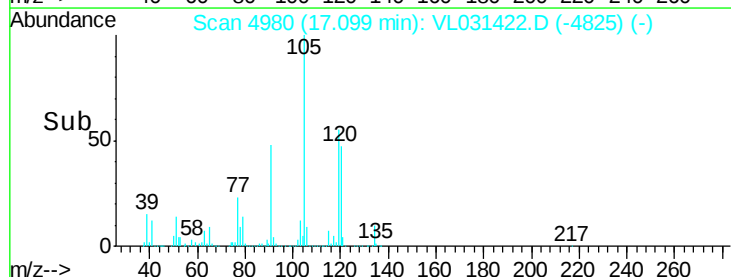
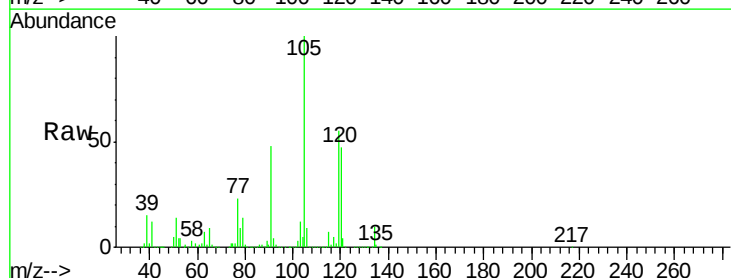
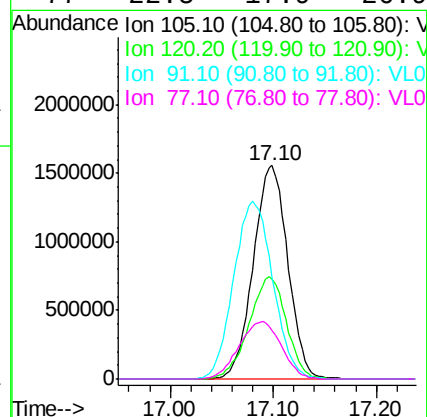
Ion Ratio Lower Upper

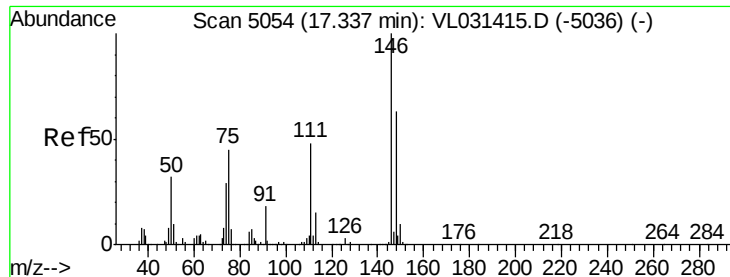
105 100

120 46.5 37.0 55.6

91 47.9 35.1 52.7

77 22.5 17.9 26.9





#75

1,3-Dichlorobenzene

Concen: 8.53 ppbv

RT: 17.34 min Scan# 5055

Delta R.T. 0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL012218

Tot Ion:146 Resp: 2253519

Ion Ratio Lower Upper

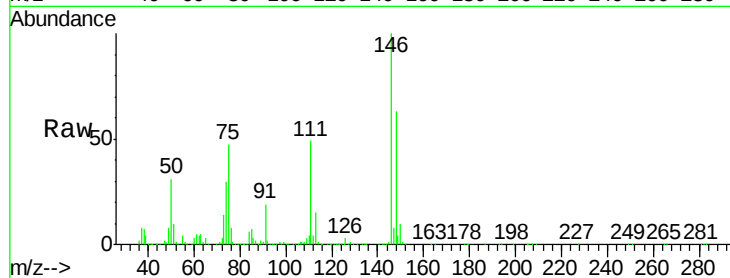
146 100

111 48.4 24.2 72.6

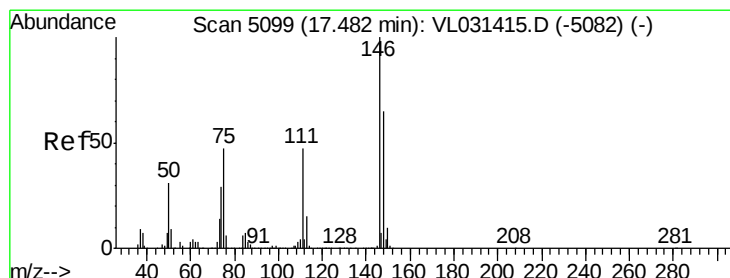
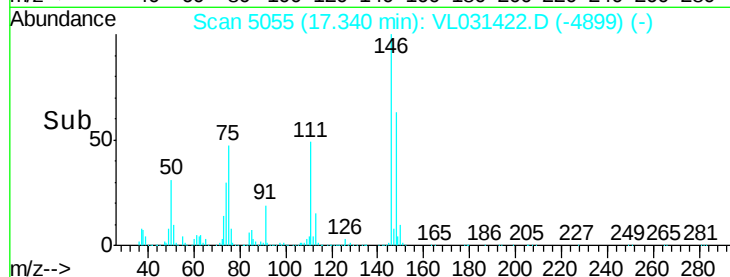
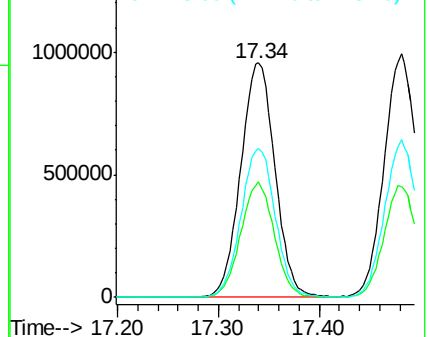
148 63.8 32.1 96.3

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



#76

1,4-Dichlorobenzene

Concen: 8.76 ppbv

RT: 17.48 min Scan# 5099

Delta R.T. -0.00 min

Lab File: VL031422.D

Acq: 22 Jan 2018 18:33

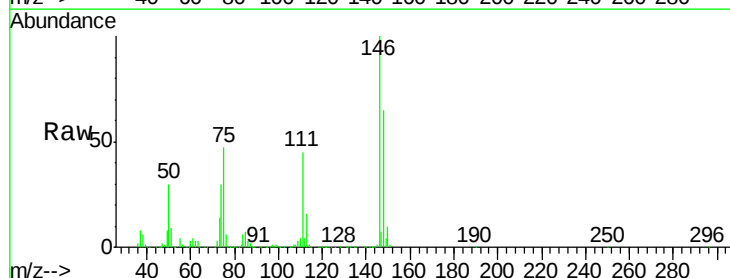
Tgt Ion:146 Resp: 2265637

Ion Ratio Lower Upper

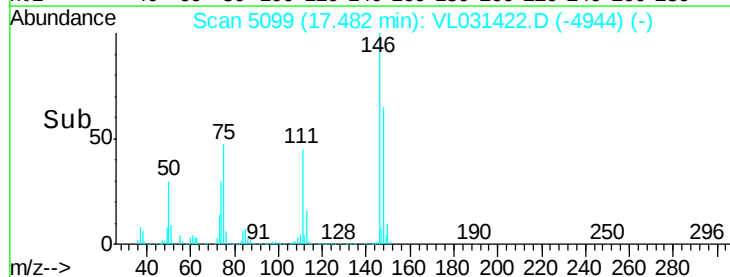
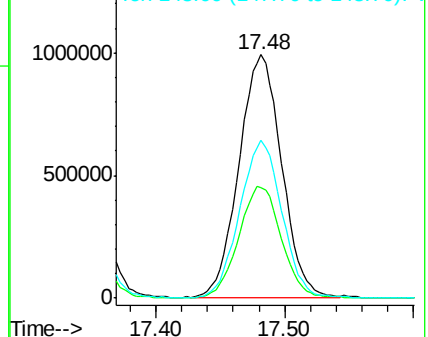
146 100

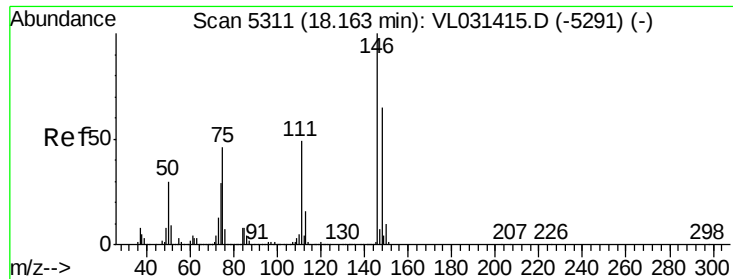
111 46.7 23.3 69.9

148 64.8 32.4 97.2



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





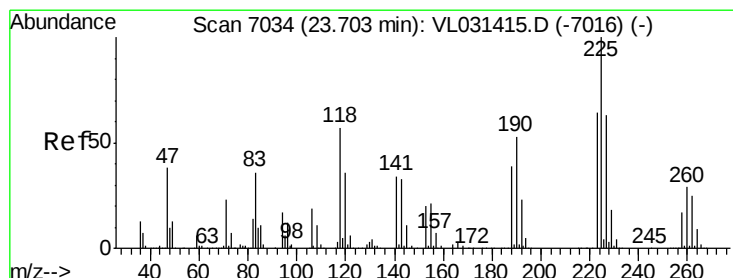
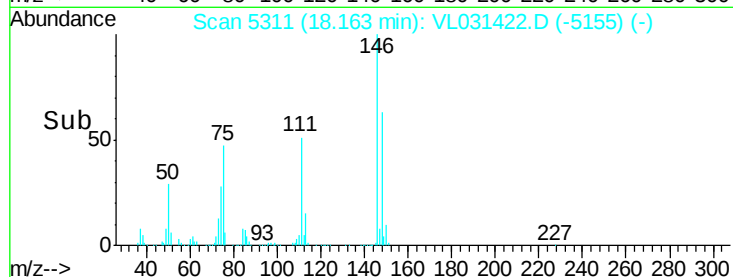
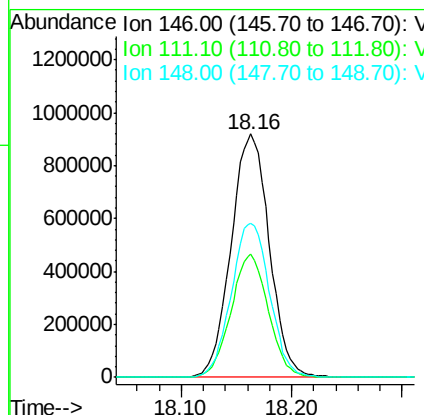
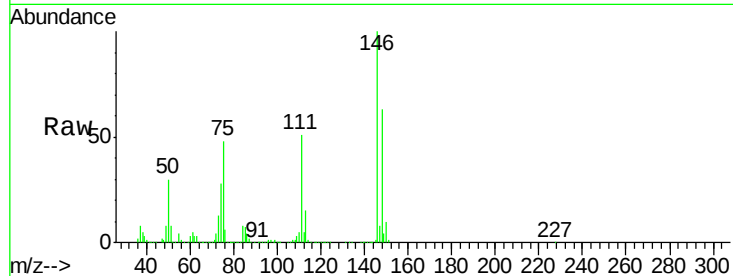
#77
 1,2-Dichlorobenzene
 Concen: 8.57 ppbv
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion:146 Resp: 2192387
 Ion Ratio Lower Upper
 146 100
 111 49.7 24.6 74.0
 148 64.3 32.3 96.8

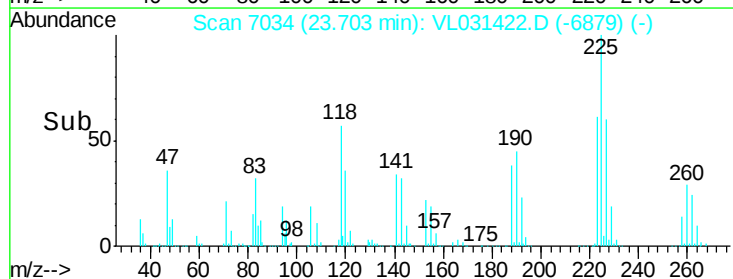
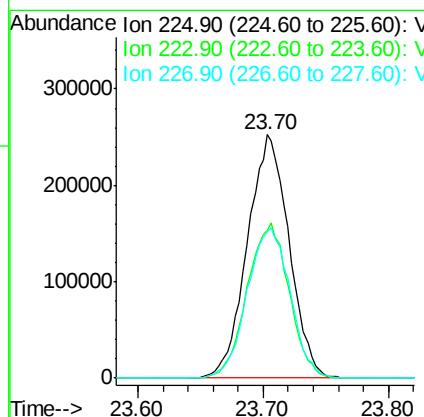
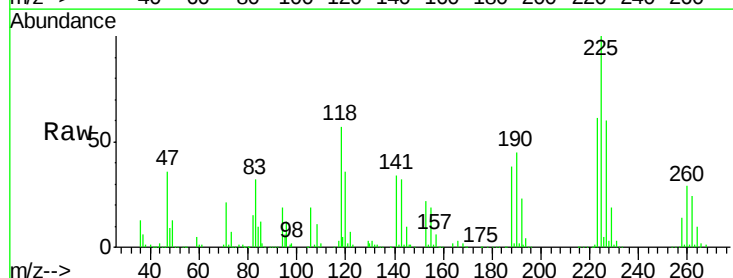
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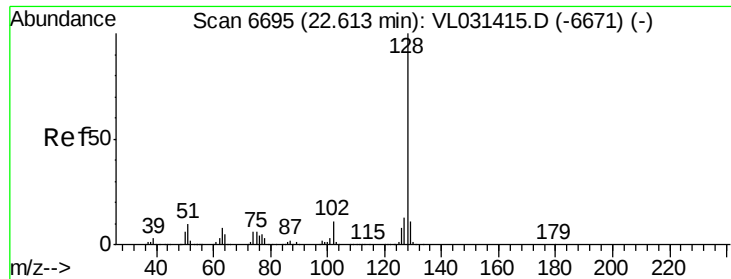
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#78
 Hexachloro-1,3-Butadiene
 Concen: 6.44 ppbv
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Tgt Ion:225 Resp: 579807
 Ion Ratio Lower Upper
 225 100
 223 64.0 51.3 76.9
 227 63.8 50.7 76.1





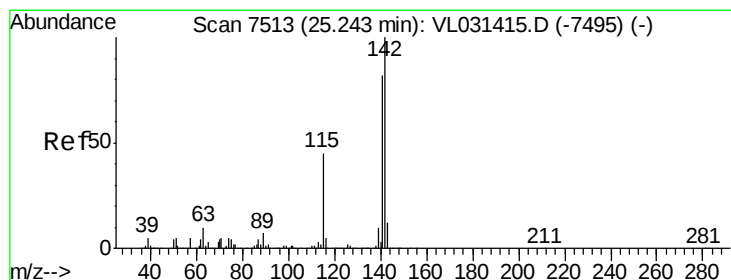
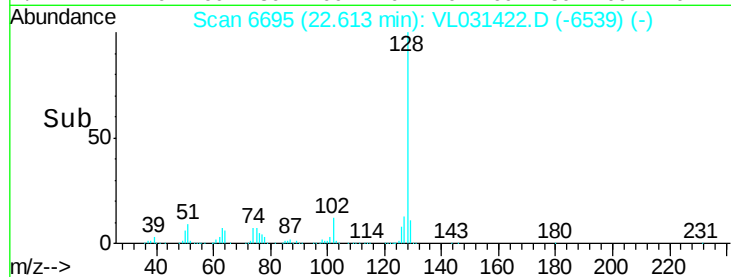
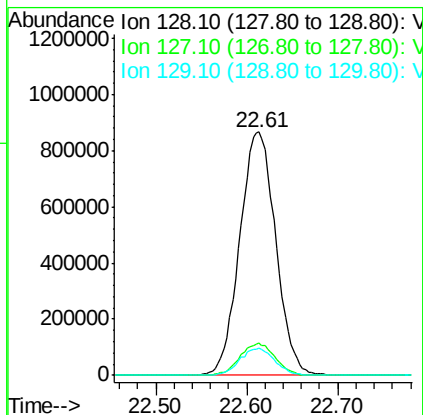
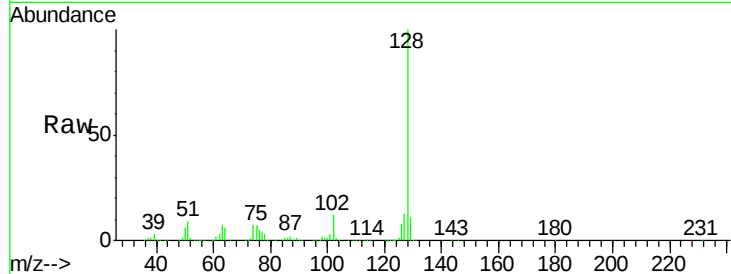
#79
Naphthalene
Concen: 9.08 ppbv
RT: 22.61 min Scan# 6695
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL012218

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.1	9.2	13.8

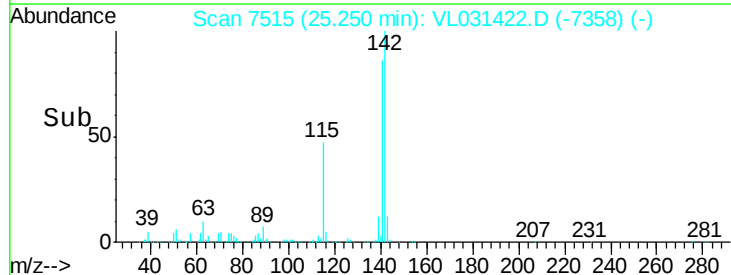
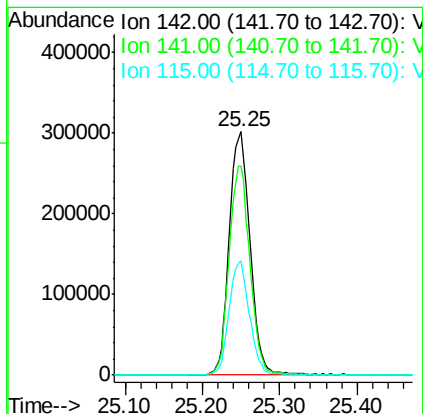
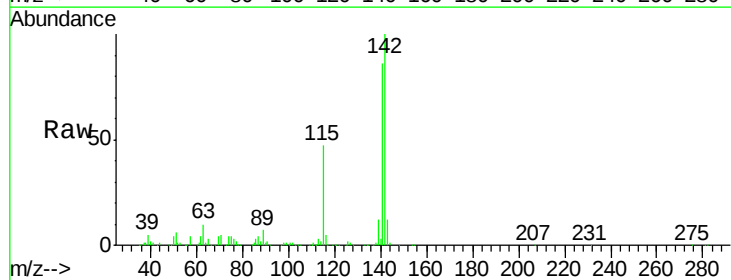
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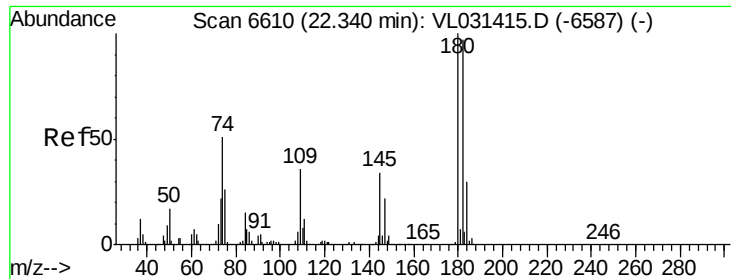
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#80
Naphthalene, 2-methyl-
Concen: 7.65 ppbv
RT: 25.25 min Scan# 7515
Delta R.T. 0.00 min
Lab File: VL031422.D
Acq: 22 Jan 2018 18:33

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.9	68.7	103.1
115	45.9	36.3	54.5





#81
 1,2,4-Trichlorobenzene
 Concen: 8.00 ppbv
 RT: 22.34 min Scan# 6609
 Delta R.T. -0.00 min
 Lab File: VL031422.D
 Acq: 22 Jan 2018 18:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012218

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.2	114.4
184	30.5	24.2	36.4

Manual Integrations
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