

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031430.D
 Acq On : 23 Jan 2018 00:15
 Operator : SY/AP
 Sample : J1089-12
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:28 PM

Quant Time: Jan 23 10:28:58 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 23 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	1196019	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2698795	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2666448	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.74	95	2182695	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	36219	0.21	ppbv	97
3) Chlorodifluoromethane	3.11	51	21591	0.14	ppbv	100
4) Chloromethane	3.28	50	9914m	0.14	ppbv	
5) Vinyl Chloride	3.40	62	9049m	0.13	ppbv	
6) Bromomethane	3.63	94	6882m	0.14	ppbv	
7) Chloroethane	3.71	64	3955m	0.14	ppbv	
8) Dichlorotetrafluoroethane	3.33	85	26913	0.14	ppbv	98
9) Propene	3.14	41	6778m	0.12	ppbv	
10) Heptane	8.40	43	14537m	0.08	ppbv	
11) Trichlorofluoromethane	4.12	101	29851	0.13	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.68	101	20407	0.14	ppbv	99
13) Ethanol	3.78	45	3139m	0.19	ppbv	
14) Bromoethene	3.91	108	7715	0.13	ppbv	92
15) Acetone	4.04	43	30767	0.19	ppbv	99
16) 1,3-Butadiene	3.48	39	7149	0.11	ppbv	87
17) tert-Butyl alcohol	4.52	59	10153m	0.13	ppbv	
18) 1,1-Dichloroethene	4.48	96	8261m	0.13	ppbv	
19) Isopropyl Alcohol	4.17	45	12695	0.13	ppbv #	97
20) Methylene Chloride	4.54	84	15920m	0.26	ppbv	
21) Allyl Chloride	4.61	41	12719	0.13	ppbv	95
22) trans-1,2-Dichloroethene	5.10	96	9415	0.15	ppbv	87
23) Vinyl Acetate	5.30	43	19344	0.10	ppbv #	95
24) 1,1-Dichloroethane	5.23	63	22397m	0.13	ppbv	
25) Ethyl Acetate	5.93	43	33377	0.12	ppbv	98
26) Hexane	5.92	57	15956	0.13	ppbv	94
27) Carbon Disulfide	4.76	76	19954	0.12	ppbv #	74
28) Methyl tert-Butyl Ether	5.28	73	15353	0.10	ppbv	98
29) Chloroform	5.99	83	28235	0.13	ppbv	87
30) Cyclohexane	7.41	84	15170m	0.16	ppbv	
31) cis-1,2-Dichloroethene	5.77	61	12294m	0.10	ppbv	
32) 1,1,1-Trichloroethane	6.77	97	27150	0.13	ppbv	97
34) 2-Butanone	5.50	43	21735	0.13	ppbv	97
35) Carbon Tetrachloride	7.29	117	29441m	0.13	ppbv	
36) Benzene	7.16	78	26104	0.11	ppbv	96
37) 1,2-Dichloroethane	6.56	62	24541	0.13	ppbv	99
38) Trichloroethene	8.12	130	12359m	0.13	ppbv	
39) 1,2-Dichloropropane	7.89	63	9197	0.10	ppbv #	89
40) 1,4-Dioxane	8.19	88	3795m	0.10	ppbv	
41) Tetrahydrofuran	6.33	42	8401	0.09	ppbv	97
42) Bromodichloromethane	8.07	83	28342m	0.13	ppbv	
43) Methyl Methacrylate	8.31	69	7183m	0.08	ppbv	

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Manual Integrations
 APPROVED

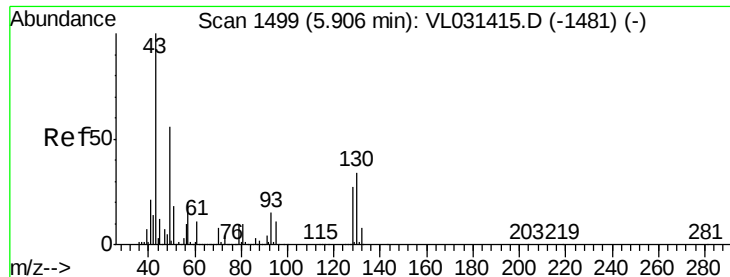
MMDadoda
 1/24/2018 5:10:28 PM

Quant Time: Jan 23 10:28:58 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 23 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.15	57	36930m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.58	75	9282m	0.07	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	12765m	0.08	ppbv	
47) 1,1,2-Trichloroethane	9.79	97	13071m	0.12	ppbv	
48) Dibromochloromethane	10.61	129	21072m	0.11	ppbv	
49) Bromoform	13.37	173	14780m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.07	43	19443m	0.08	ppbv	
51) 2-Hexanone	10.47	43	17558m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10512m	0.12	ppbv	
53) Toluene	10.11	91	23794	0.08	ppbv	99
54) 1,2-Dibromoethane	10.92	107	18767m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.44	131	16352m	0.13	ppbv	
57) Chlorobenzene	12.47	112	30440	0.13	ppbv	94
58) Ethyl Benzene	13.03	91	34849m	0.09	ppbv	
59) m/p-Xylene	13.32	91	60916m	0.18	ppbv	
60) o-Xylene	14.02	91	28251	0.08	ppbv	98
61) Styrene	13.85	104	5630m	0.08	ppbv	
62) Isopropylbenzene	14.99	105	42876m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.00	83	28075m	0.12	ppbv	
64) n-propylbenzene	15.89	120	7914m	0.08	ppbv	
65) tert-Butylbenzene	17.08	119	29849m	0.08	ppbv	
66) Benzyl Chloride	17.33	91	3632m	0.10	ppbv	
67) sec-Butylbenzene	17.63	105	47211m	0.09	ppbv	
69) p-Isopropyltoluene	17.98	119	33130m	0.08	ppbv	
70) n-Butylbenzene	18.89	91	35293	0.08	ppbv	95
71) 2-Chlorotoluene	15.78	91	28924	0.09	ppbv	96
72) 4-Ethyltoluene	16.17	105	27325m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	24992	0.08	ppbv	91
74) 1,2,4-Trimethylbenzene	17.10	105	29563	0.09	ppbv #	85
75) 1,3-Dichlorobenzene	17.34	146	29335m	0.14	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	23446m	0.11	ppbv	
77) 1,2-Dichlorobenzene	18.16	146	23801m	0.12	ppbv	
78) Hexachloro-1,3-Butadiene	23.70	225	12823m	0.18	ppbv	
79) Naphthalene	22.62	128	14917m	0.07	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3685	0.06	ppbv	88
81) 1,2,4-Trichlorobenzene	22.34	180	11386m	0.10	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-5

Tot Ion: 49 Resp: 1196019

Ion Ratio Lower Upper

49 100

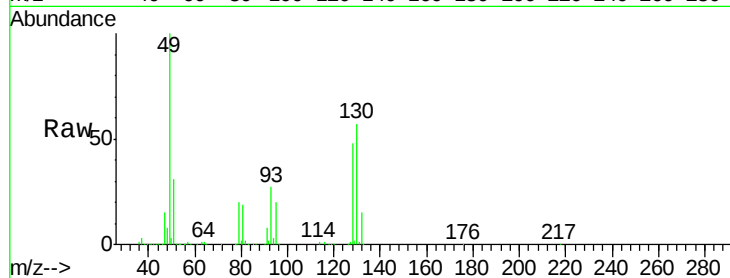
128 45.1 23.5 70.6

130 58.4 29.9 89.7

Manual Integrations
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.91

800000

600000

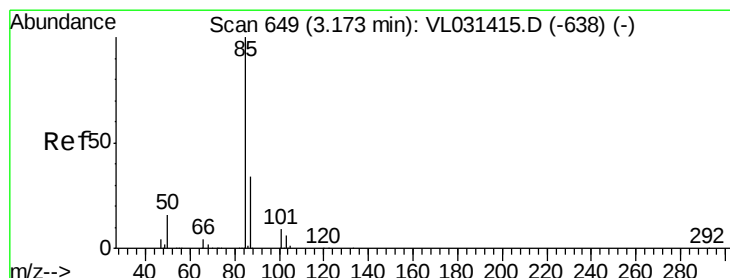
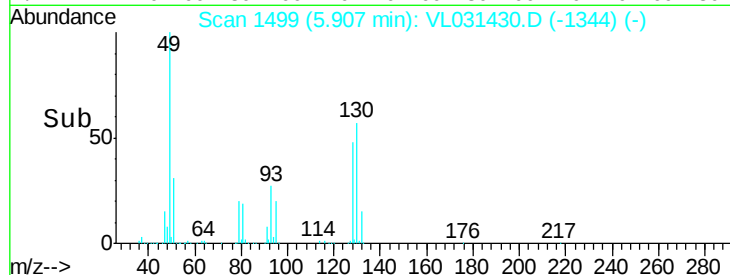
400000

200000

0

5.85 5.90 5.95 6.00

Time-->



#2

Dichlorodifluoromethane

Concen: 0.21 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031430.D

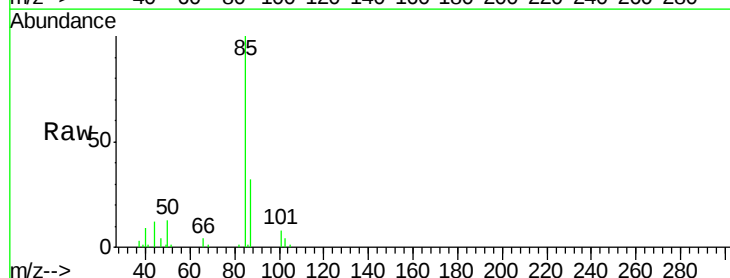
Acq: 23 Jan 2018 00:15

Tgt Ion: 85 Resp: 36219

Ion Ratio Lower Upper

85 100

87 32.4 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.18

30000

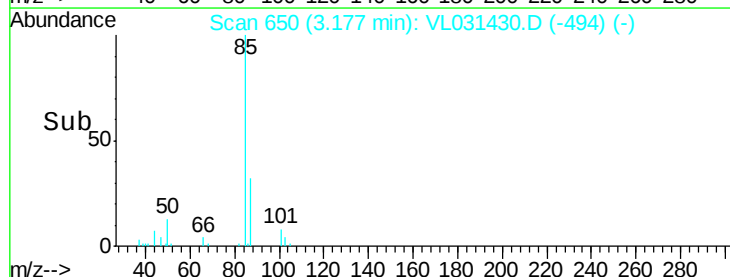
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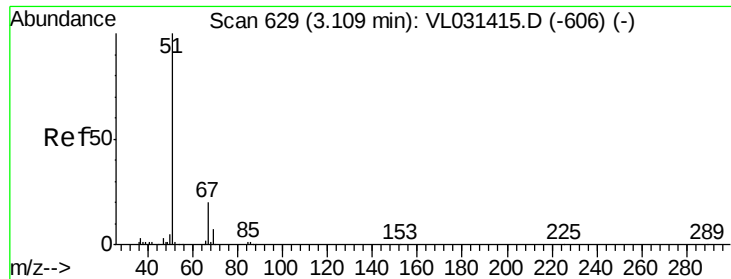
10000

0

3.15 3.20

Time-->





#3

Chlorodifluoromethane

Concen: 0.14 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-5

Tot Ion: 51 Resp: 21591

Ion Ratio Lower Upper

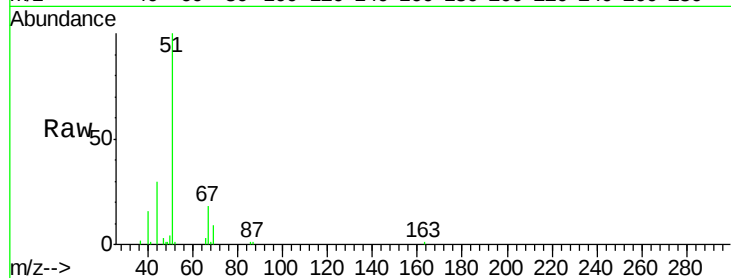
51 100

67 19.9 16.0 24.0

Manual Integrations
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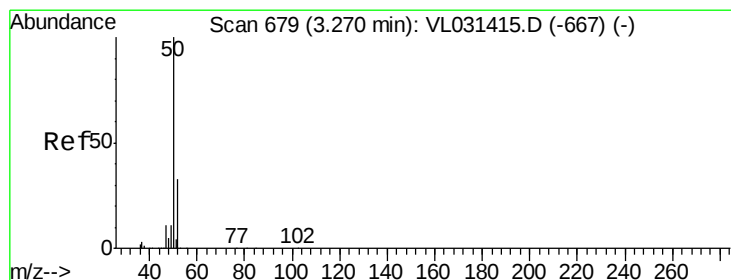
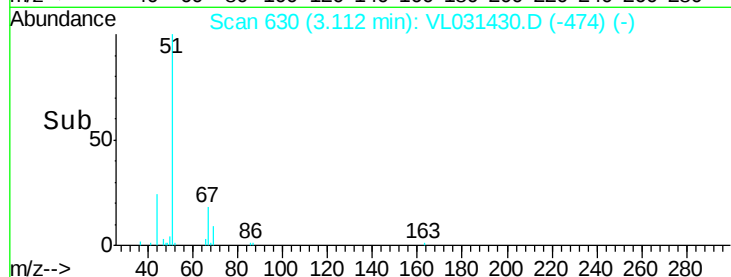
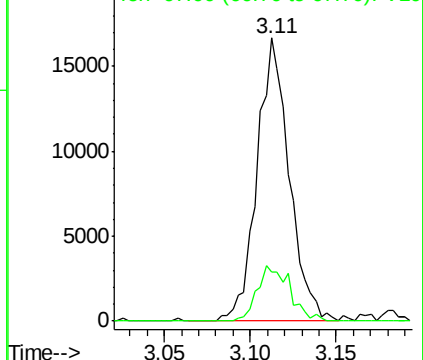
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.14 ppbv m

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031430.D

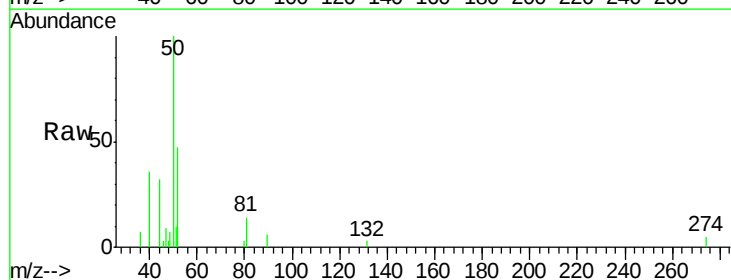
Acq: 23 Jan 2018 00:15

Tgt Ion: 50 Resp: 9914

Ion Ratio Lower Upper

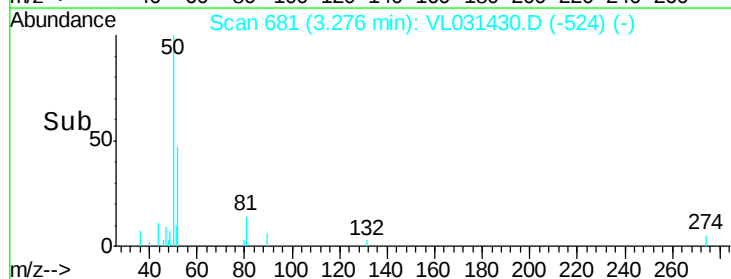
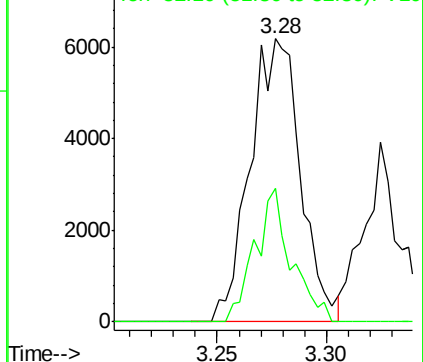
50 100

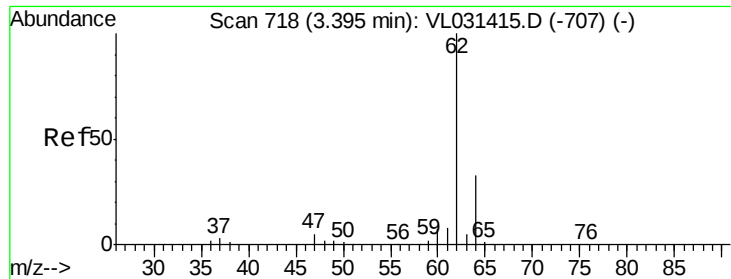
52 47.0 26.4 39.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.13 ppbv m

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-5

Tot Ion: 62 Resp: 9049

Ion Ratio Lower Upper

62 100

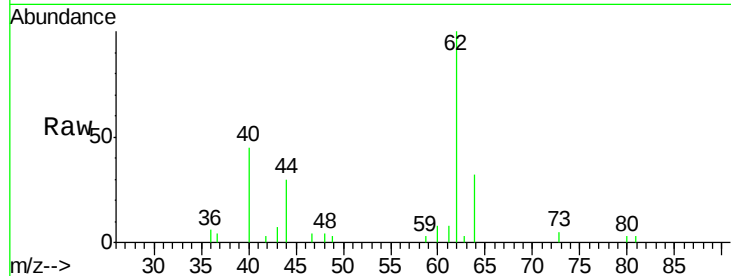
64 32.3 25.4 38.0

Manual Integrations

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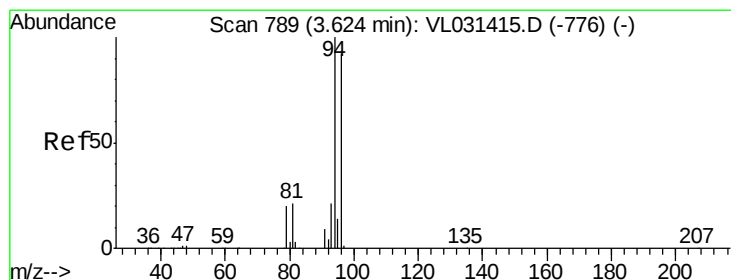
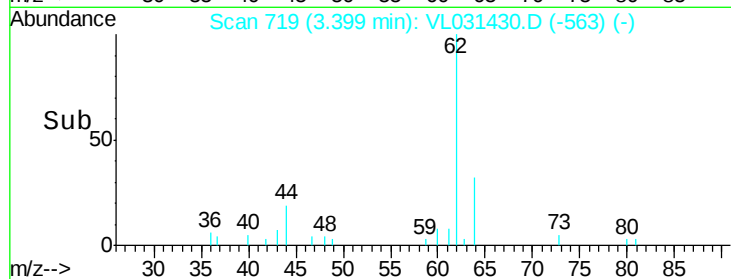
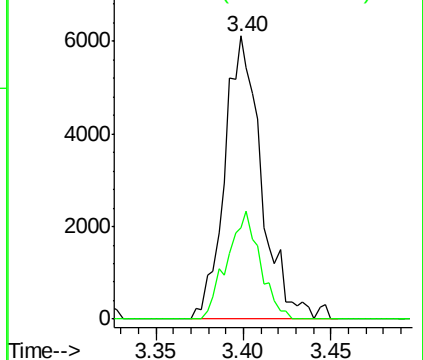
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.14 ppbv m

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031430.D

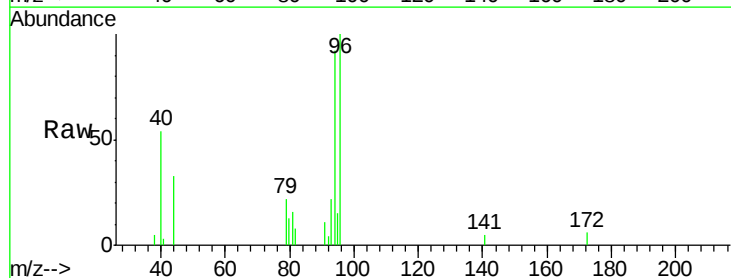
Acq: 23 Jan 2018 00:15

Tgt Ion: 94 Resp: 6882

Ion Ratio Lower Upper

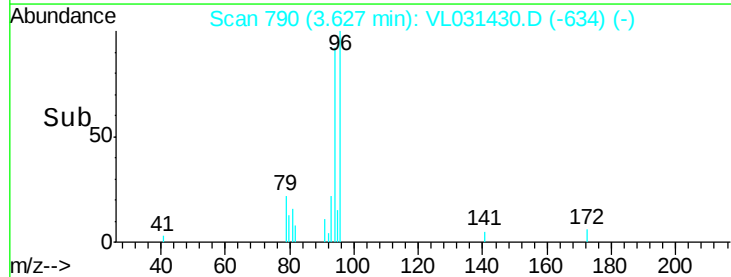
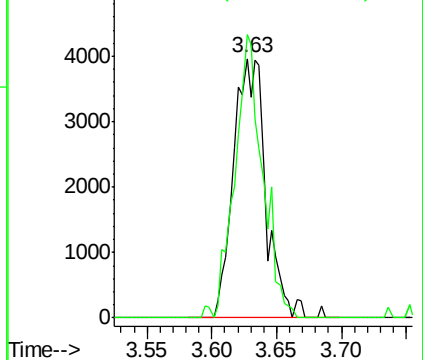
94 100

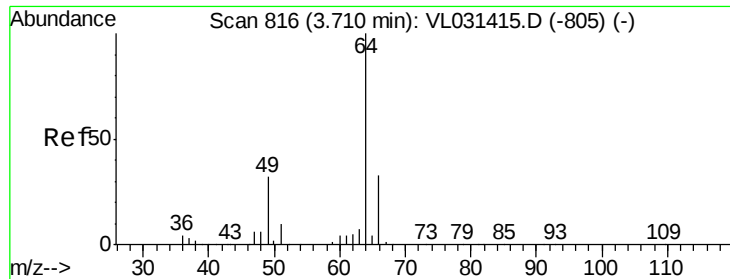
96 109.2 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

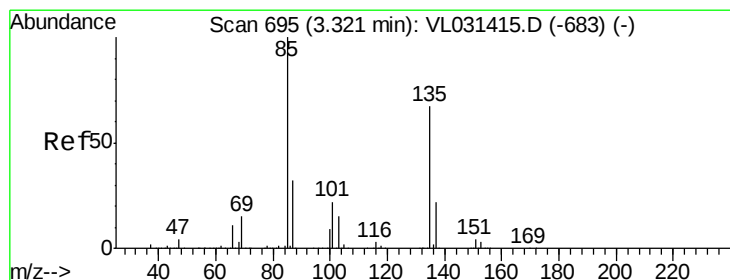
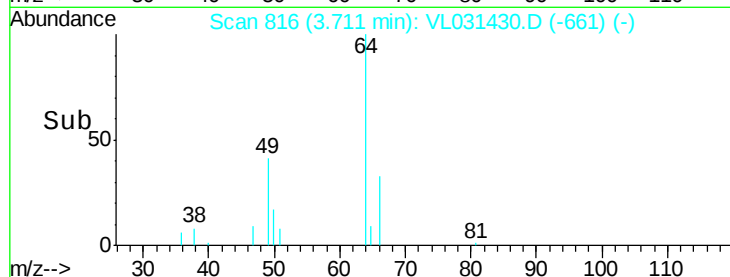
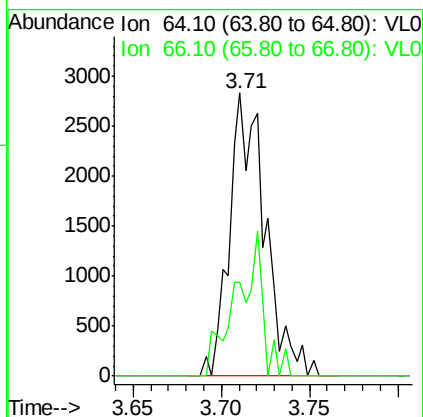
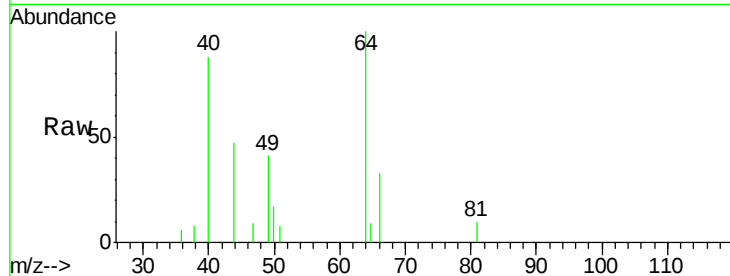
Concen: 0.14 ppbv m
RT: 3.71 min Scan# 816
Delta R.T. -0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.3	39.5

Manual Integrations
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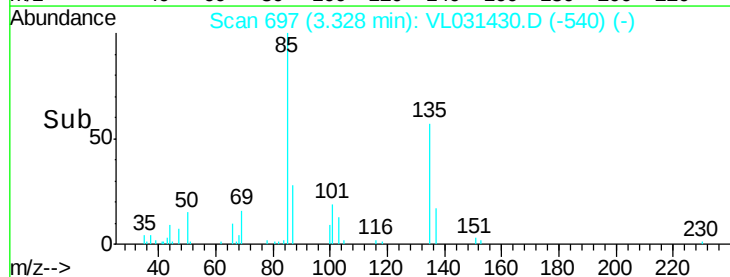
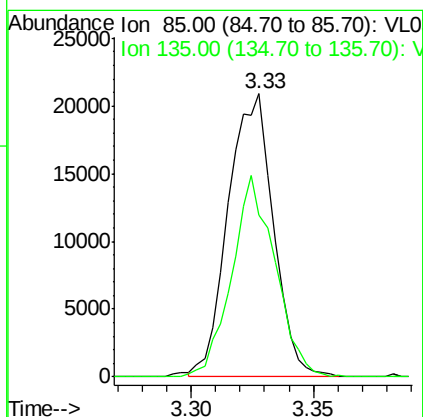
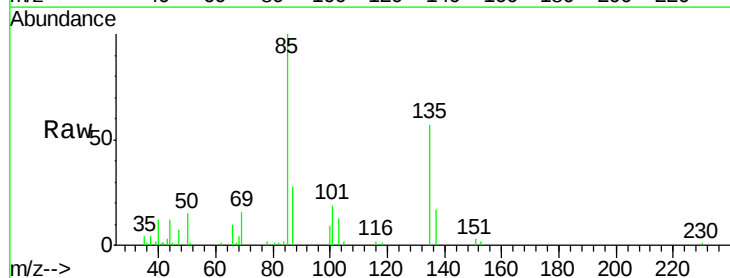


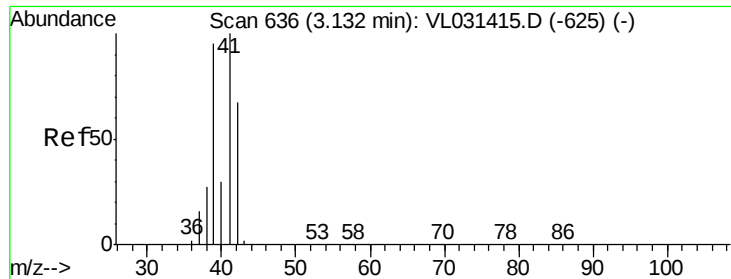
#8

Dichlorotetrafluoroethane

Concen: 0.14 ppbv
RT: 3.33 min Scan# 697
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
85	100		
135	67.9	53.3	79.9





#9

Propene

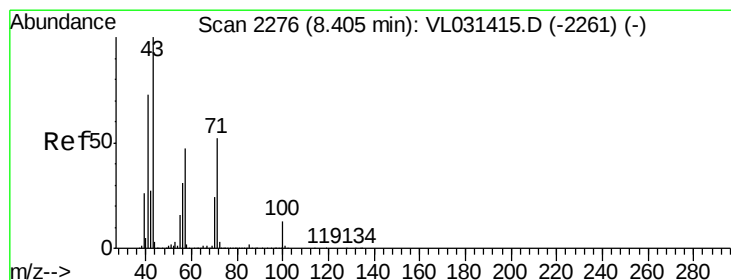
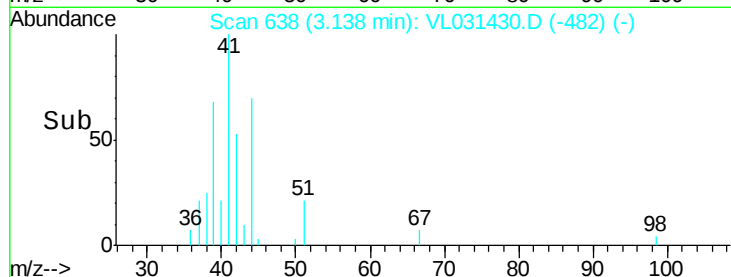
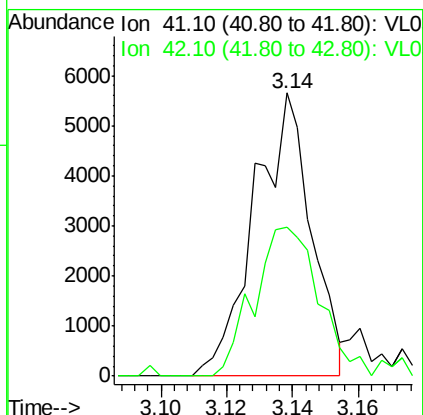
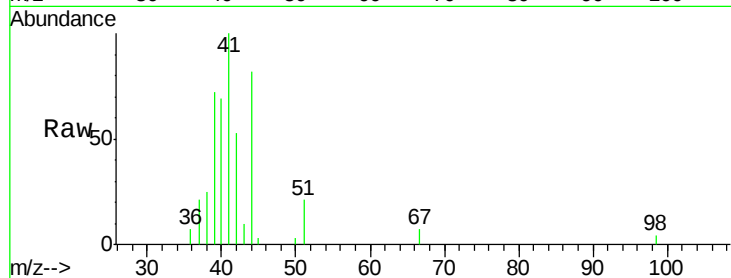
Concen: 0.12 ppbv m
RT: 3.14 min Scan# 638
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	41	Resp	6778
Ion Ratio	Lower	Upper	
41	100		
42	64.0	54.6	82.0

Manual Integrations
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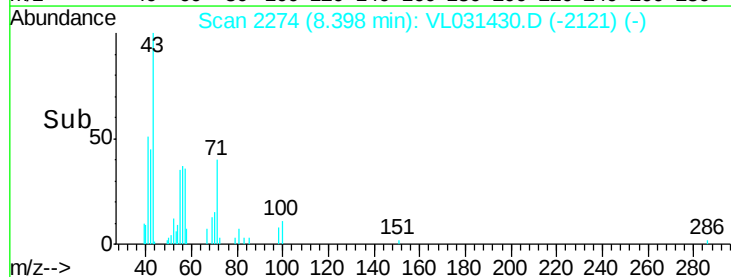
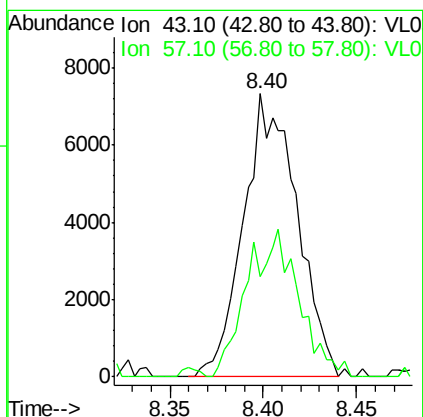
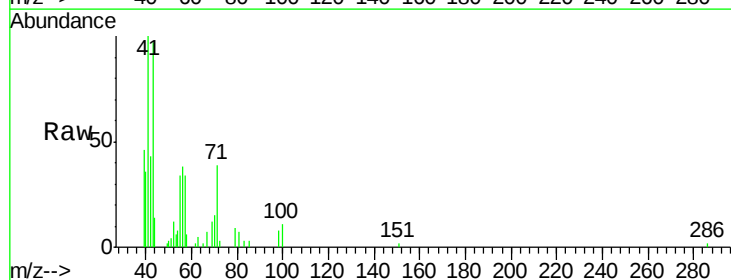


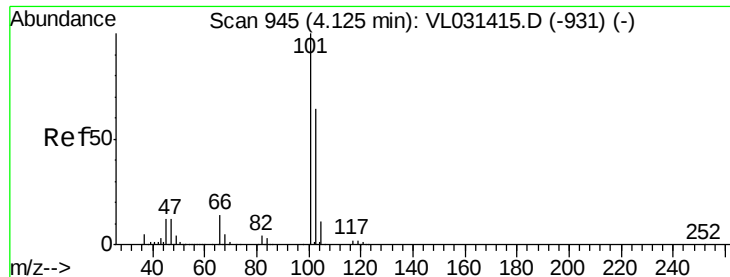
#10

Heptane

Concen: 0.08 ppbv m
RT: 8.40 min Scan# 2274
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	43	Resp	14537
Ion Ratio	Lower	Upper	
43	100		
57	51.5	39.7	59.5





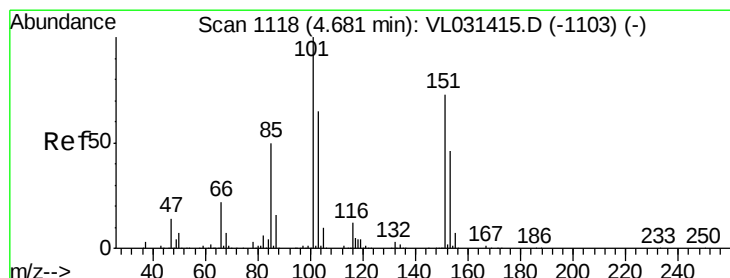
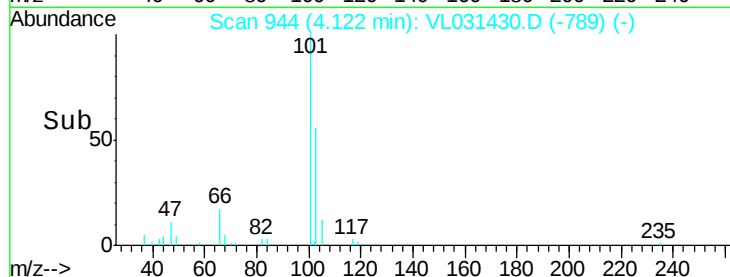
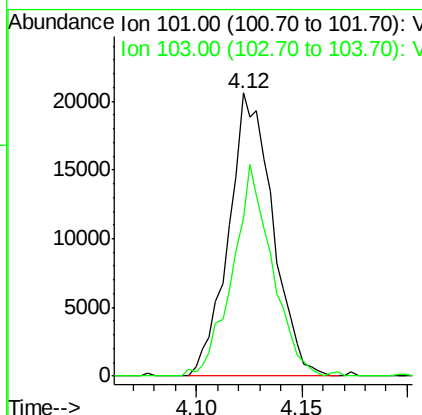
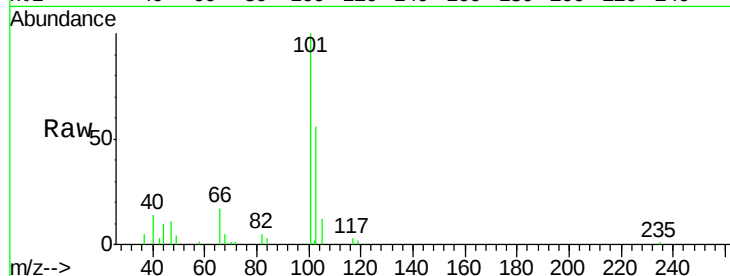
#11
 Trichlorofluoromethane
 Concen: 0.13 ppbv
 RT: 4.12 min Scan# 944
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		29851		
103	54.6	53.1	79.7		

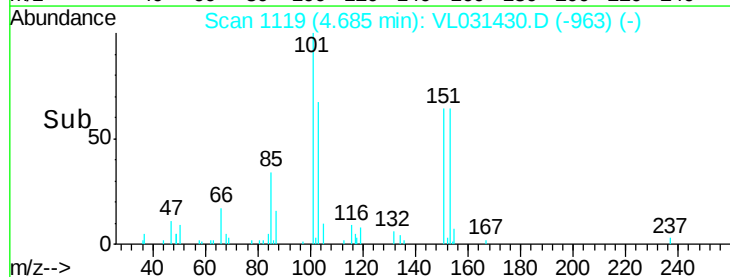
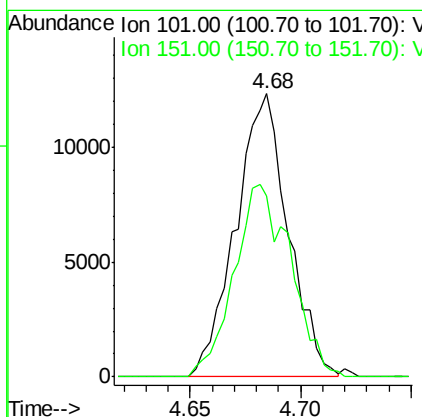
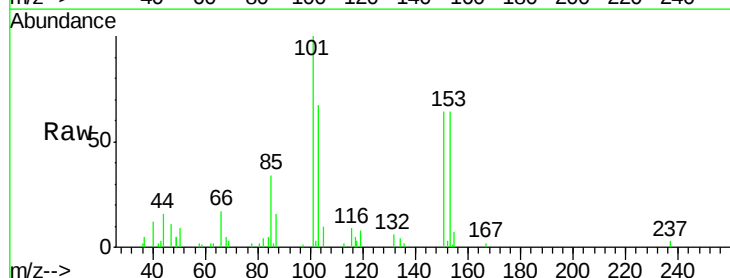
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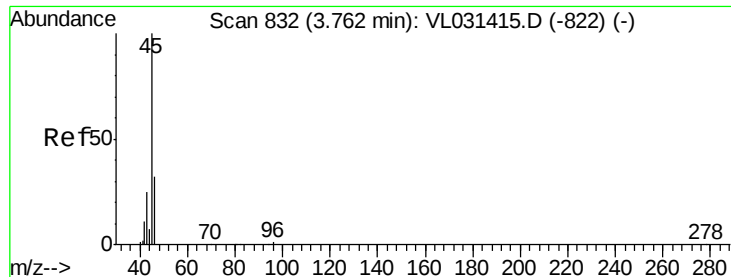
MMDadoda
 1/24/2018 5:10:28 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.14 ppbv
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		20407		
151	73.0	58.1	87.1		





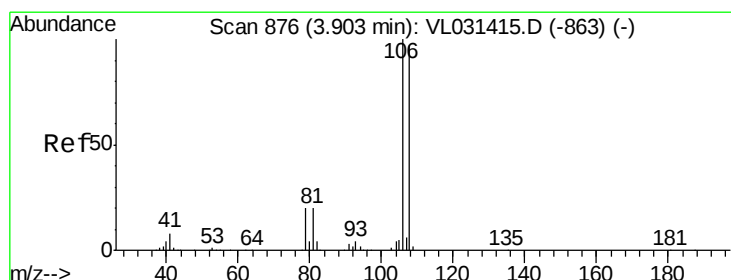
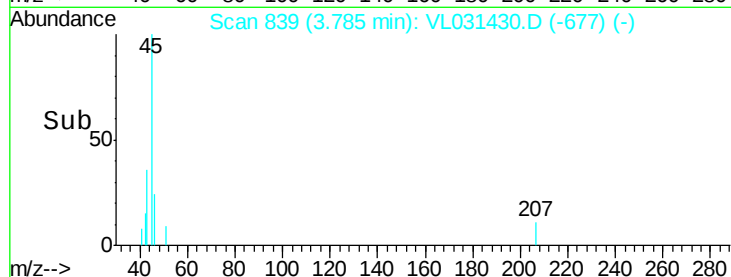
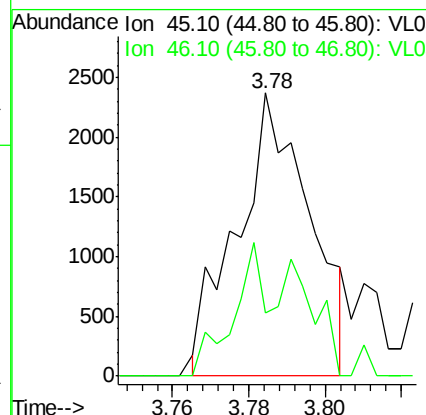
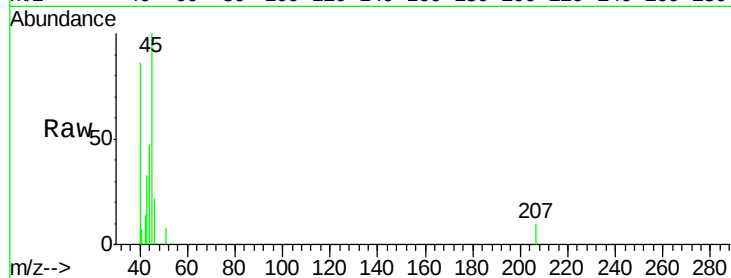
#13
Ethanol
Concen: 0.19 ppbv m
RT: 3.78 min Scan# 839
Delta R.T. 0.02 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-5

Tot Ion: 45 Resp: 3139
Ion Ratio Lower Upper
45 100
46 42.5 14.9 59.5

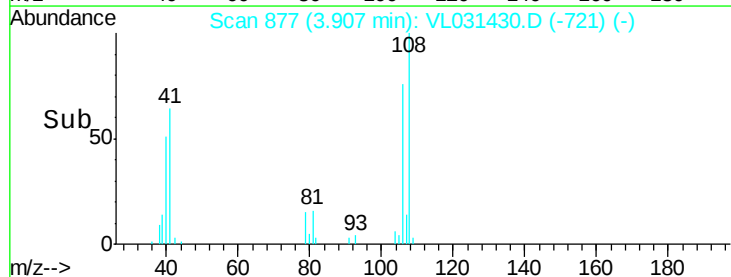
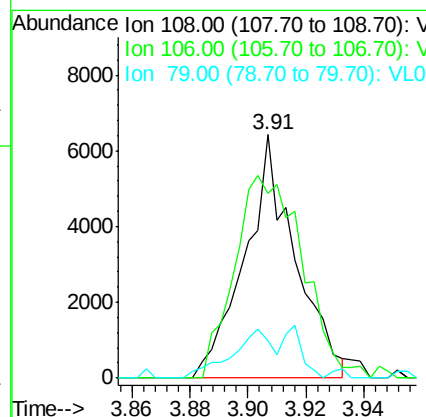
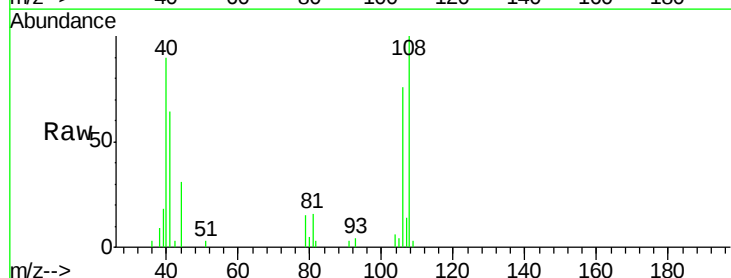
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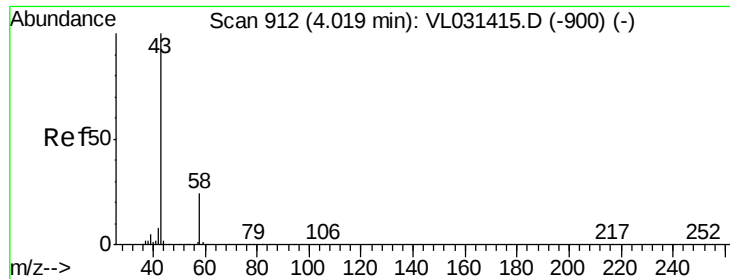
MMDadoda
1/24/2018 5:10:28 PM



#14
Bromoethene
Concen: 0.13 ppbv
RT: 3.91 min Scan# 877
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion: 108 Resp: 7715
Ion Ratio Lower Upper
108 100
106 114.5 85.3 127.9
79 25.0 16.8 25.2





#15

Acetone

Concen: 0.19 ppbv

RT: 4.04 min Scan# 919

Delta R.T. 0.02 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-5

Tot Ion: 43 Resp: 30767

Ion Ratio Lower Upper

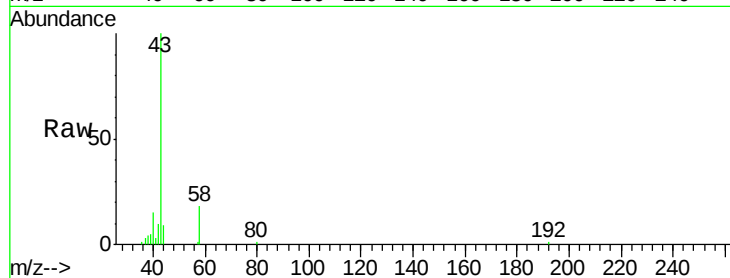
43 100

58 24.0 19.4 29.2

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

20000

15000

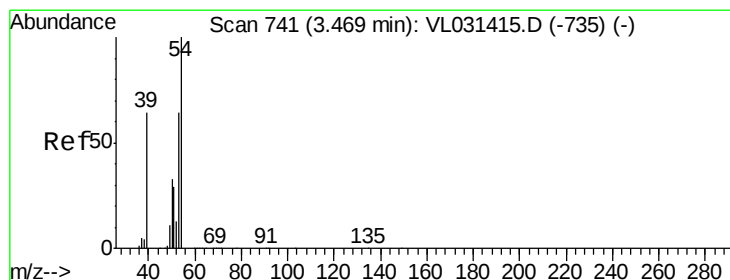
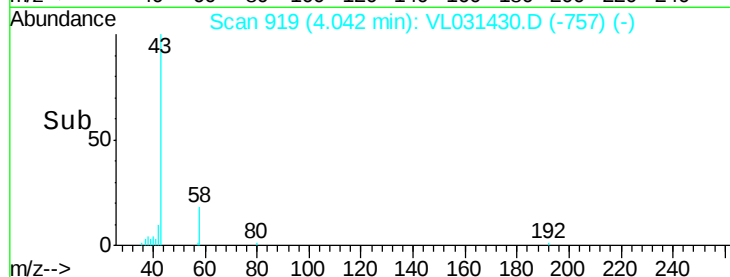
10000

5000

0

Time-->

4.00 4.05 4.10



#16

1,3-Butadiene

Concen: 0.11 ppbv

RT: 3.48 min Scan# 743

Delta R.T. 0.00 min

Lab File: VL031430.D

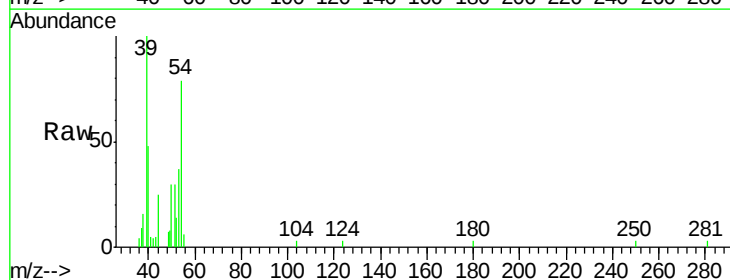
Acq: 23 Jan 2018 00:15

Tgt Ion: 39 Resp: 7149

Ion Ratio Lower Upper

39 100

54 95.8 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.48

6000

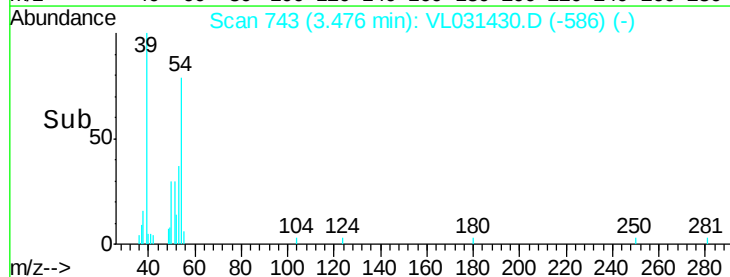
4000

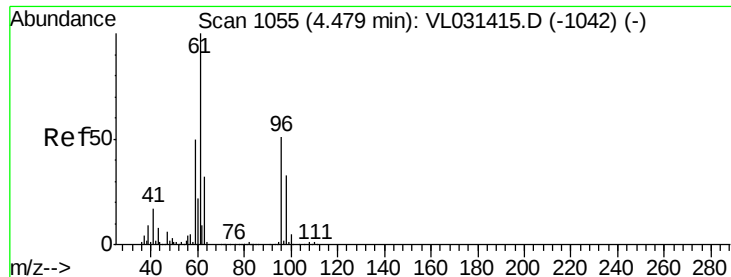
2000

0

Time-->

3.46 3.48 3.50





#17

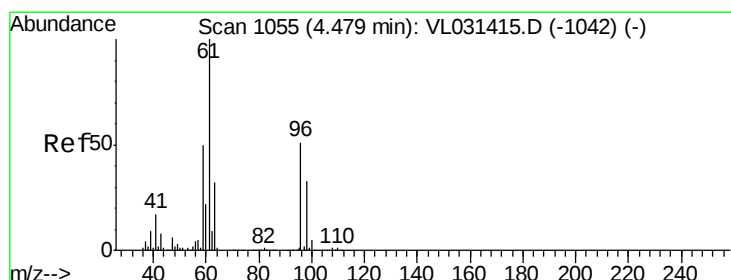
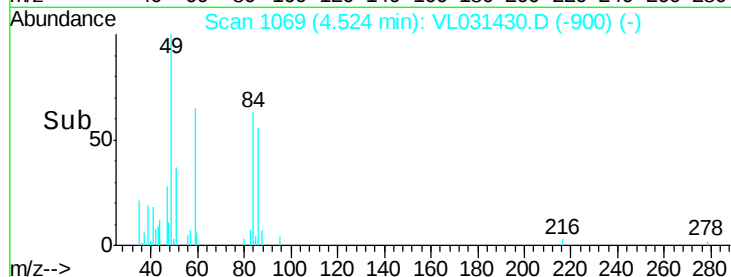
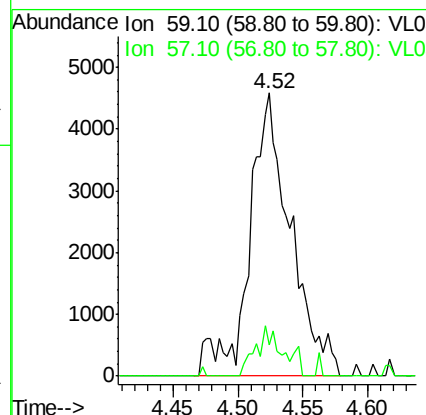
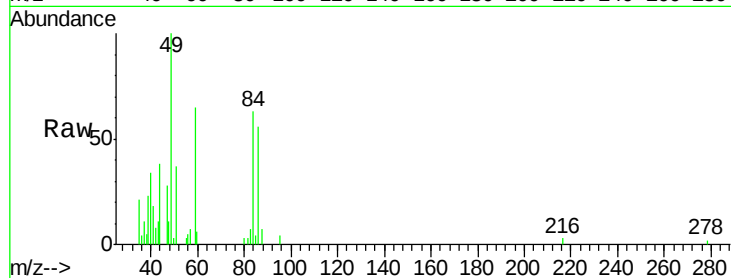
tert-Butyl alcohol
 Concen: 0.13 ppbv m
 RT: 4.52 min Scan# 1069
 Delta R.T. 0.04 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#

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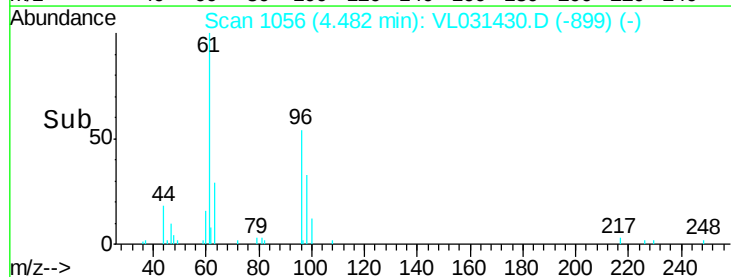
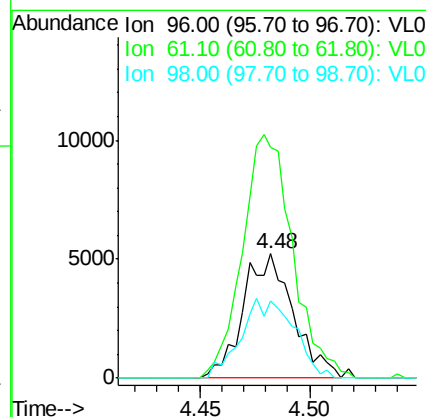
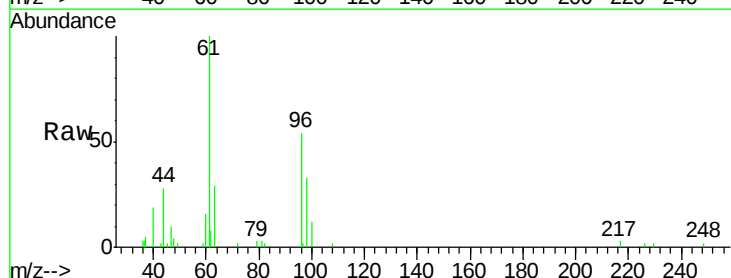
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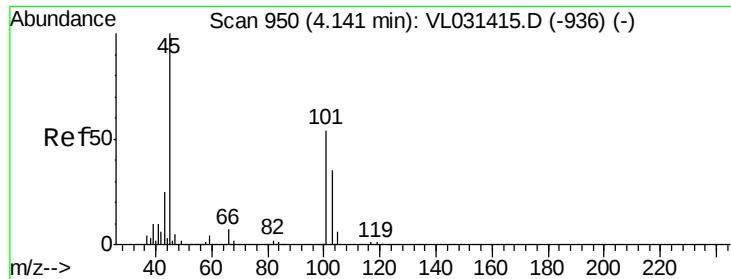


#18

1,1-Dichloroethene
 Concen: 0.13 ppbv m
 RT: 4.48 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	185.6	161.6	242.4
98	62.1	49.6	74.4





#19

Isopropyl Alcohol

Concen: 0.13 ppbv

RT: 4.17 min Scan# 960

Delta R.T. 0.03 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-5

Tot Ion: 45 Resp: 12695

Ion Ratio Lower Upper

45 100

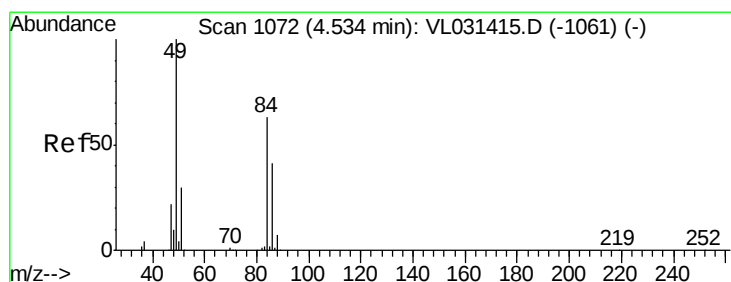
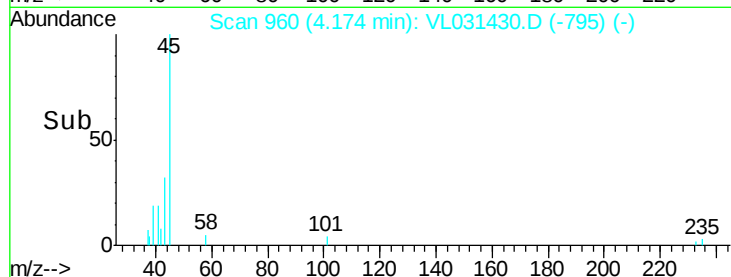
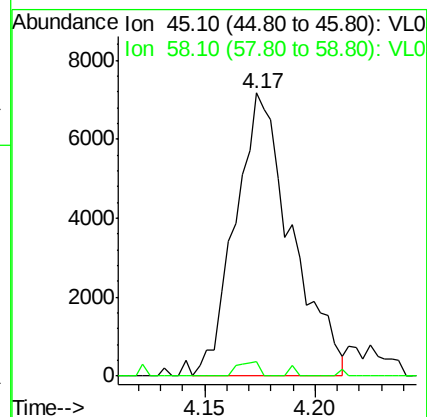
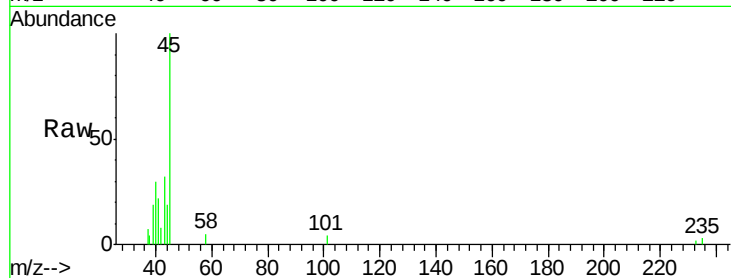
58 2.3 1.0 1.4#

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#20

Methylene Chloride

Concen: 0.26 ppbv m

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion: 84 Resp: 15920

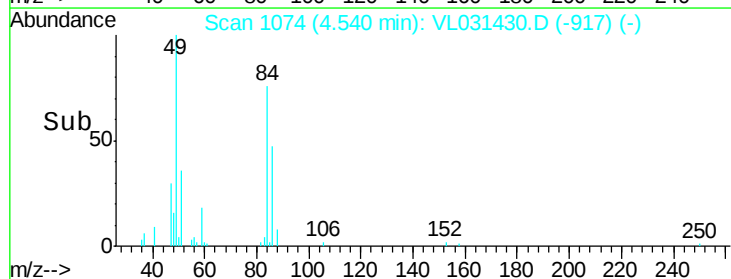
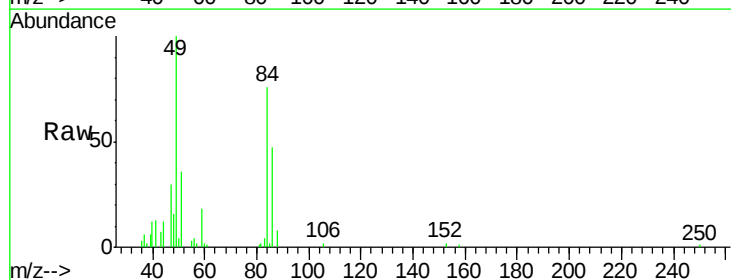
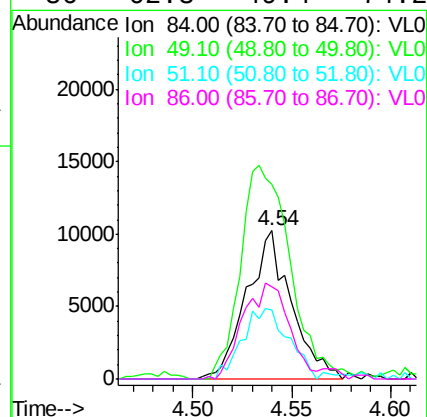
Ion Ratio Lower Upper

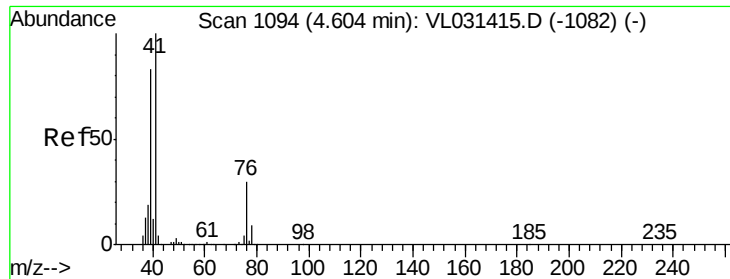
84 100

49 131.3 123.4 185.0

51 46.9 35.6 53.4

86 62.3 49.4 74.2





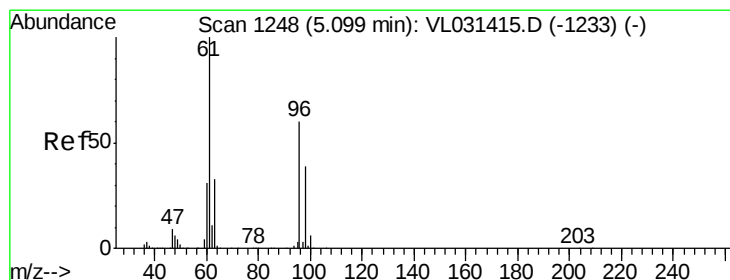
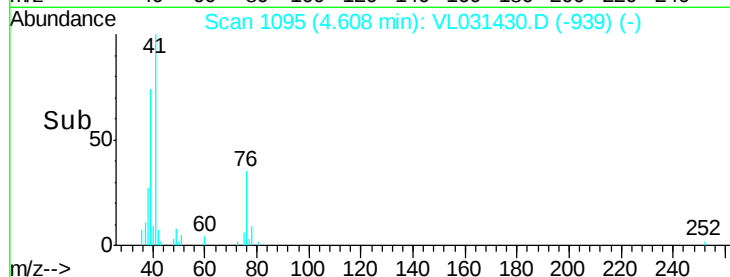
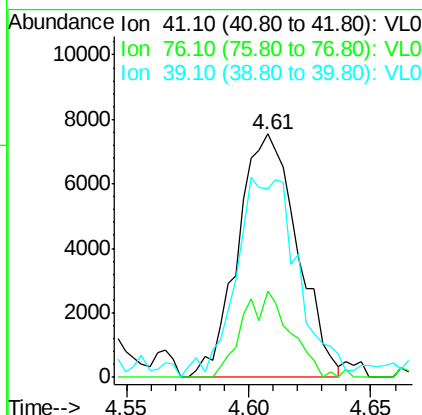
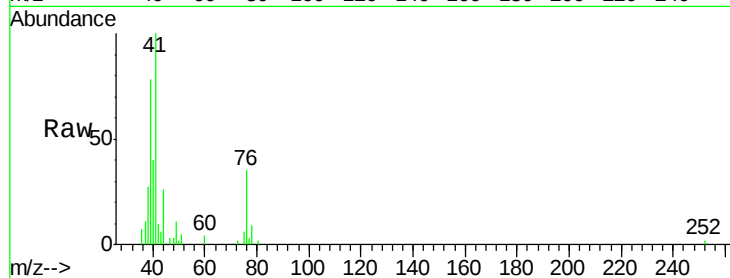
#21
Allvl Chloride
Concen: 0.13 ppbv
RT: 4.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.7	24.2	36.2
39	92.3	69.8	104.8

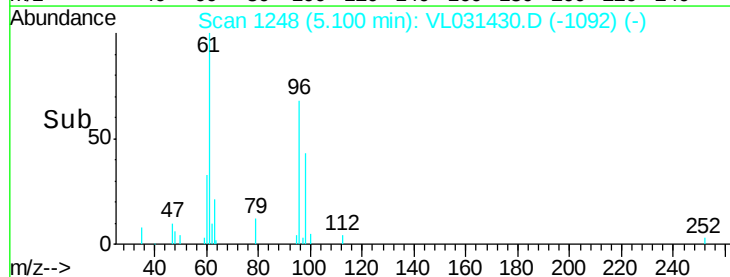
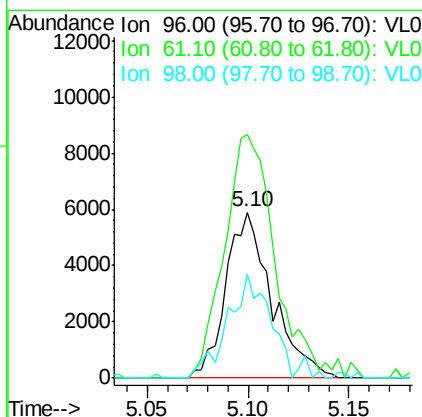
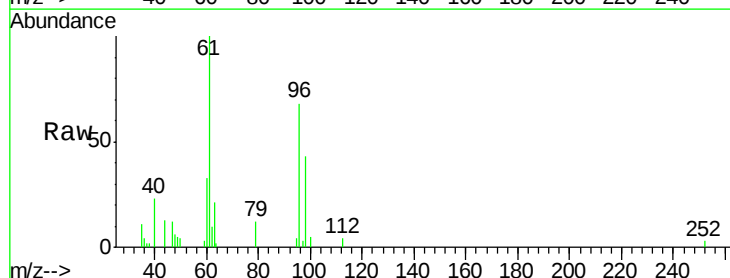
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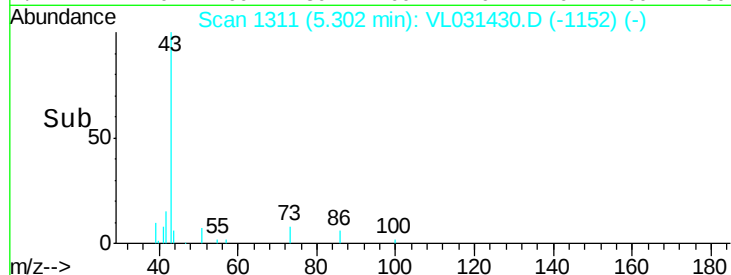
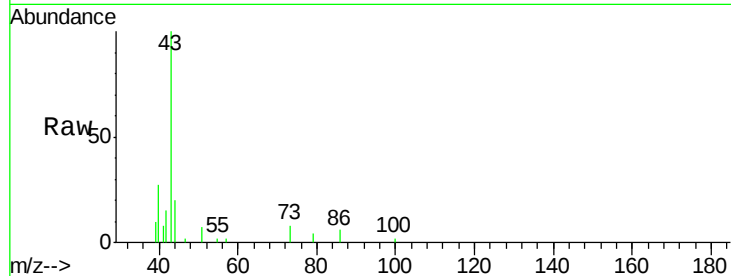
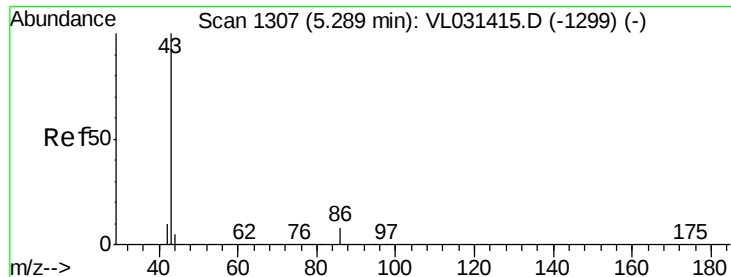
MMDadoda
1/24/2018 5:10:28 PM



#22
trans-1,2-Dichloroethene
Concen: 0.15 ppbv
RT: 5.10 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.7	135.0	202.4
98	62.6	52.2	78.2





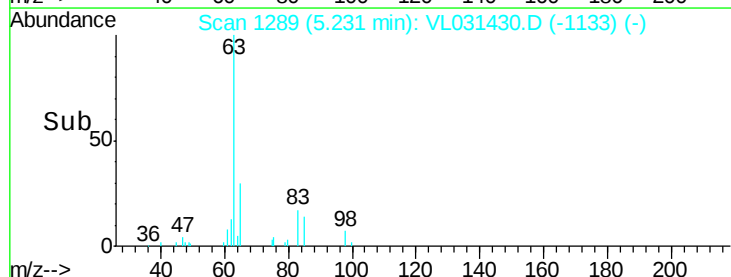
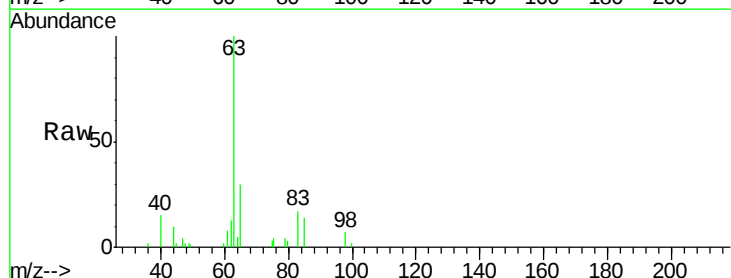
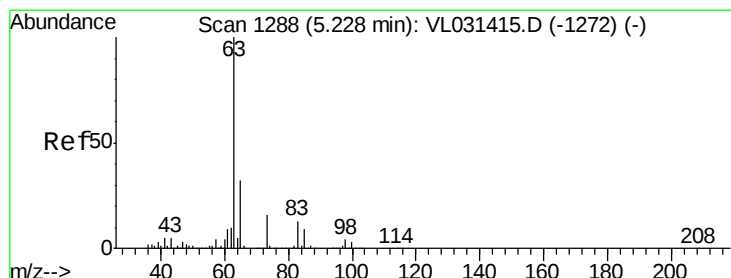
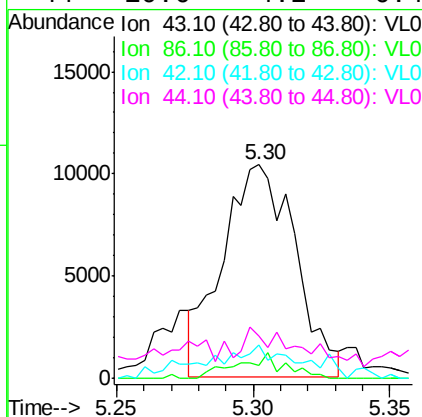
#23
 Vinyl Acetate
 Concen: 0.10 ppbv
 RT: 5.30 min Scan# 1311
 Delta R.T. 0.01 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tot Ion	43	Resp	19344
Ion Ratio	Lower	Upper	
43	100		
86	6.8	5.6	8.4
42	12.0	8.6	12.8
44	10.6	4.2	6.4

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

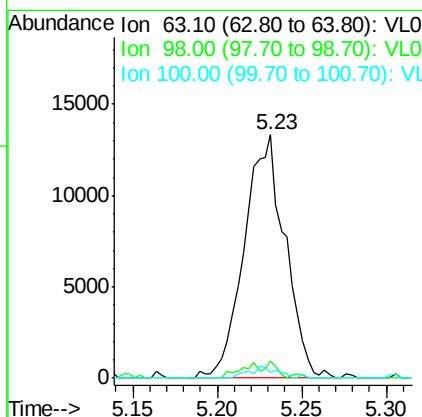
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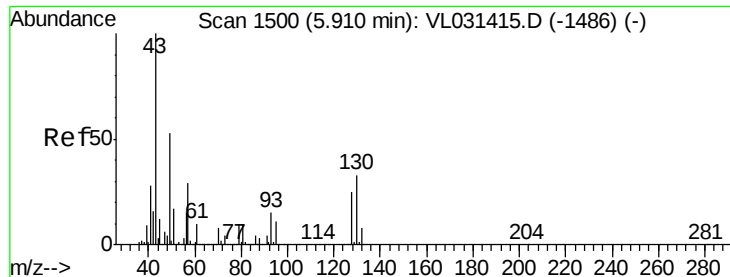
MMDadoda
 1/24/2018 5:10:28 PM



#24
 1,1-Dichloroethane
 Concen: 0.13 ppbv m
 RT: 5.23 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	63	Resp	22397
Ion Ratio	Lower	Upper	
63	100		
98	7.1	2.4	7.1
100	2.2	1.3	3.9





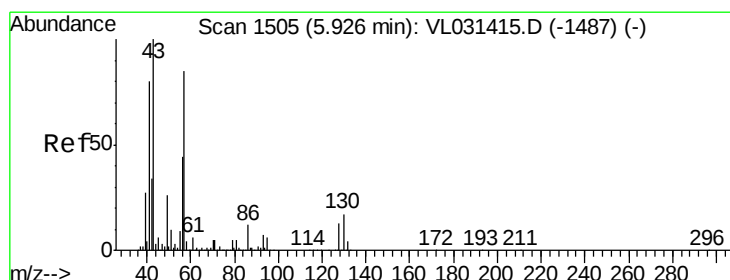
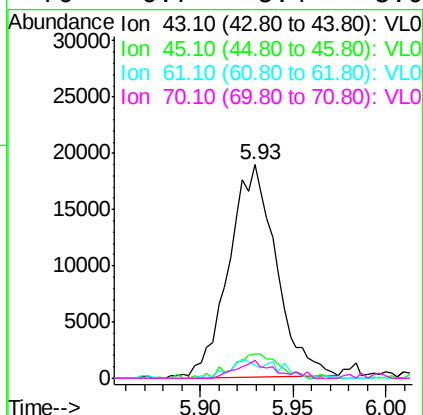
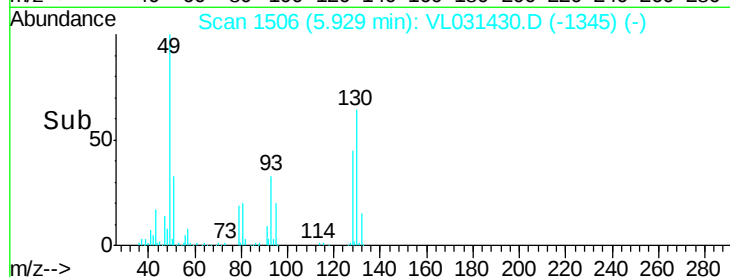
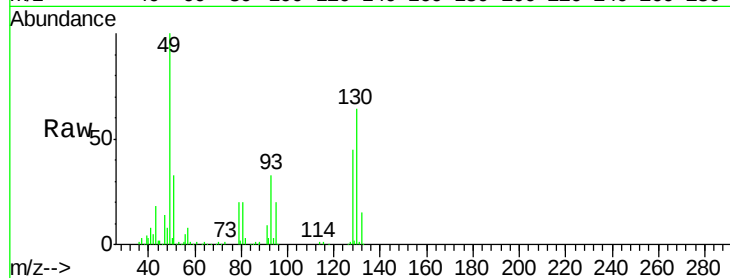
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.02 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.4	7.8	11.6
61	8.9	7.0	10.6
70	6.7	5.4	8.0

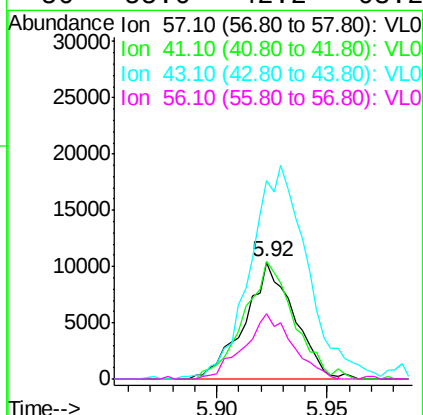
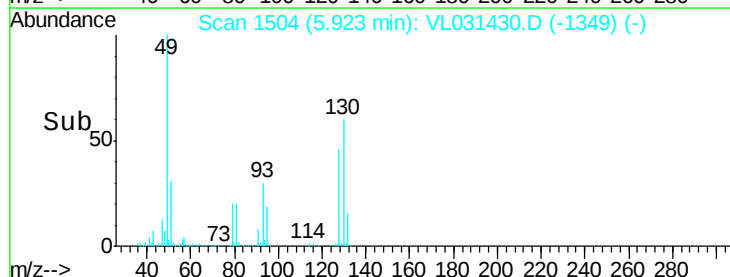
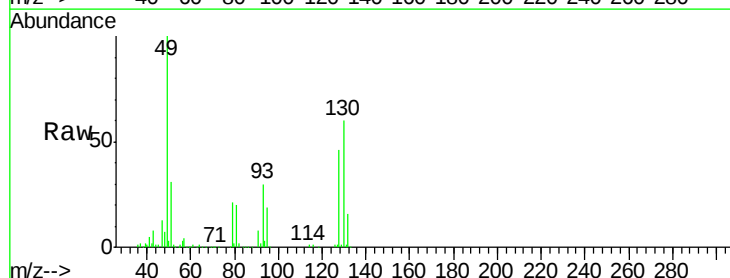
Manual Integrations
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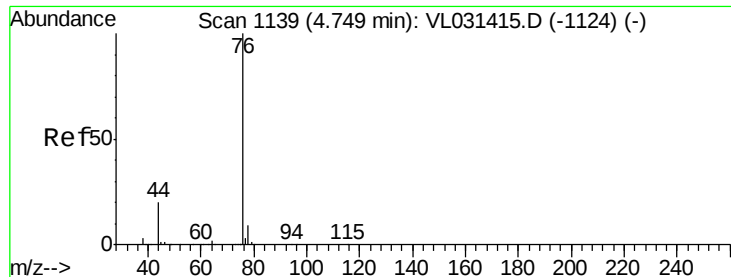
MMDadoda
1/24/2018 5:10:28 PM



#26
Hexane
Concen: 0.13 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. -0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
57	100		
41	102.6	77.1	115.7
43	214.7	180.7	271.1
56	55.6	42.2	63.2





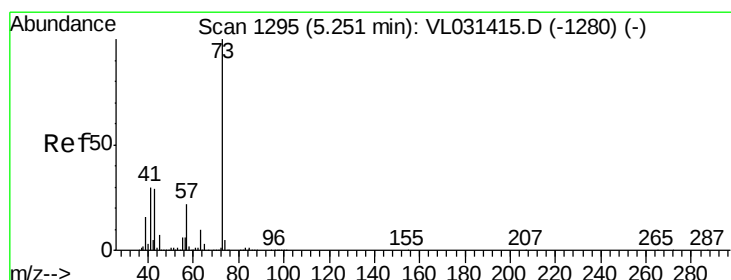
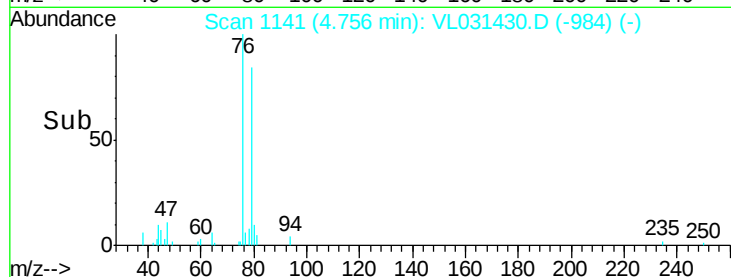
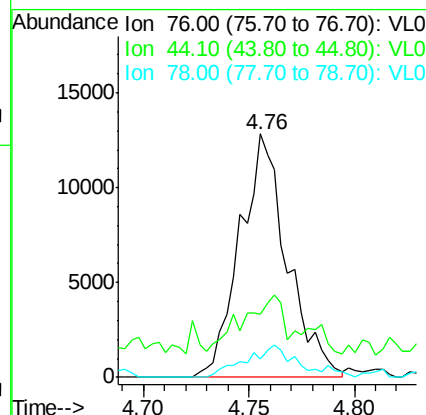
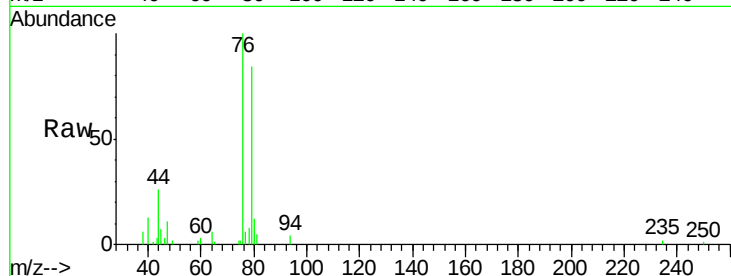
#27
Carbon Disulfide
Concen: 0.12 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
76	100		
44	35.5	16.7	25.1#
78	14.7	7.5	11.3#

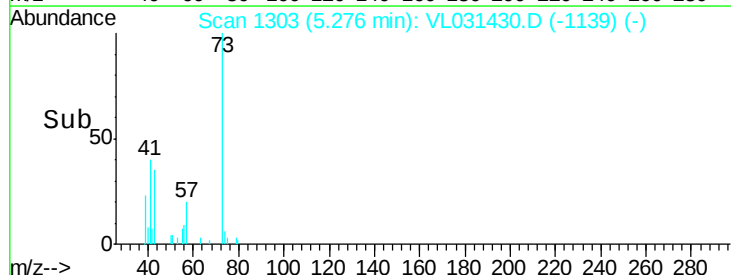
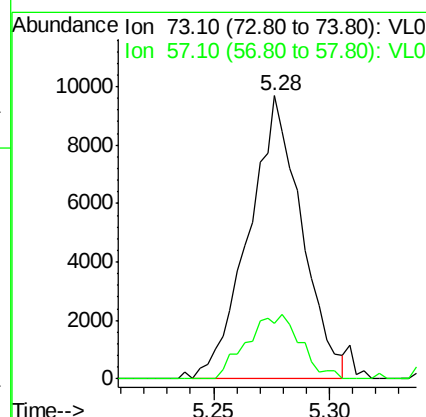
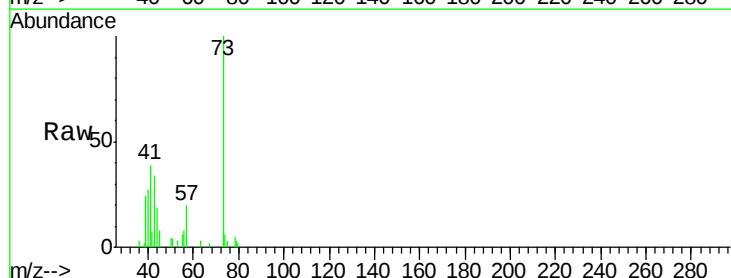
Manual Integrations
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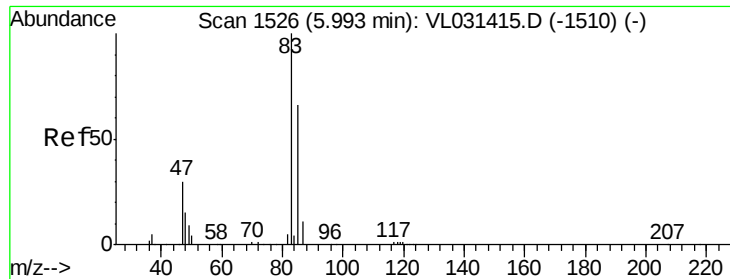
MMDadoda
1/24/2018 5:10:28 PM



#28
Methyl tert-Butyl Ether
Concen: 0.10 ppbv
RT: 5.28 min Scan# 1303
Delta R.T. 0.03 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.5	26.3





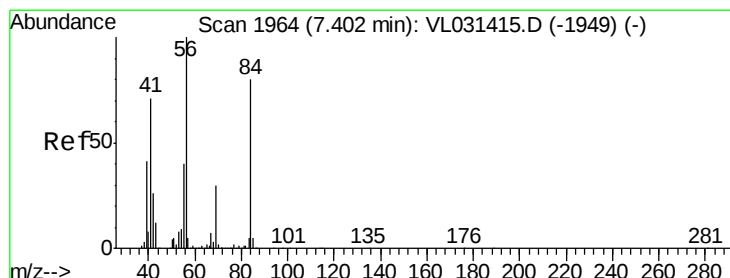
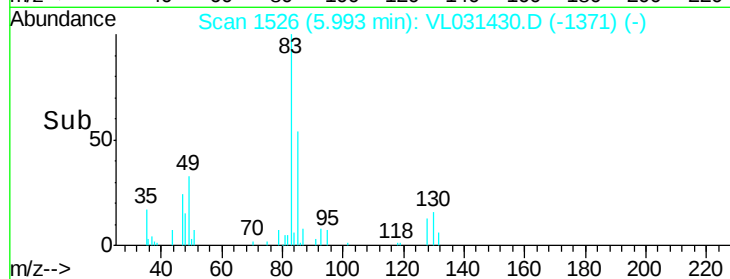
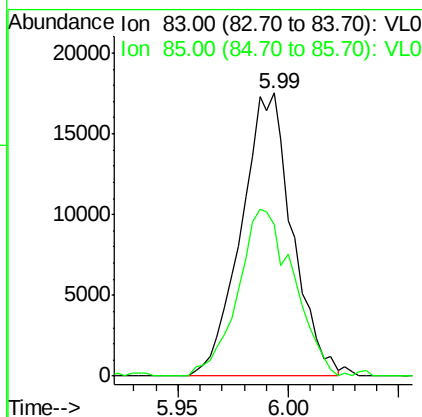
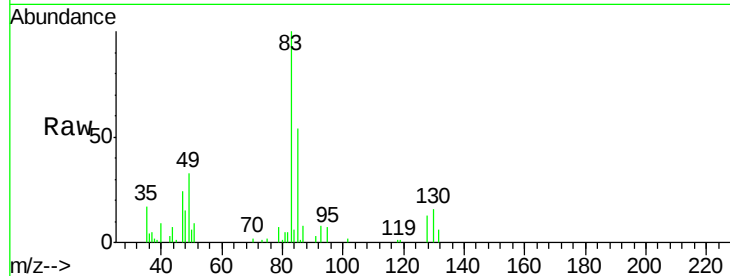
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	83	Resp	28235
Ion Ratio	100	Lower	Upper
85	53.7	51.3	76.9

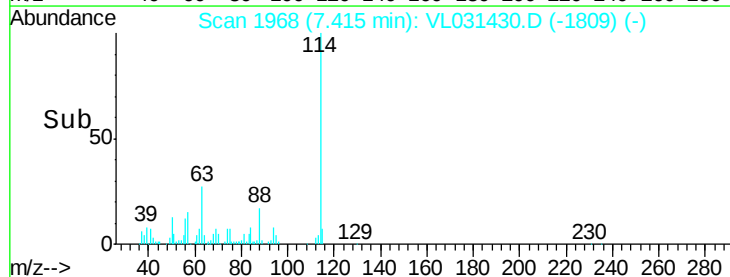
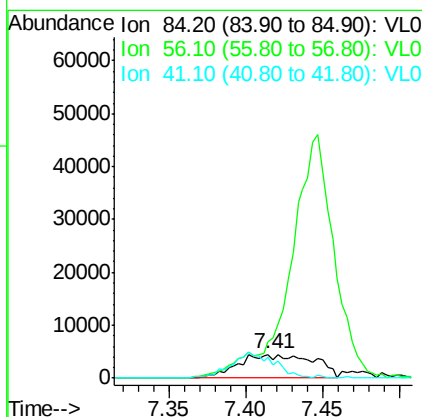
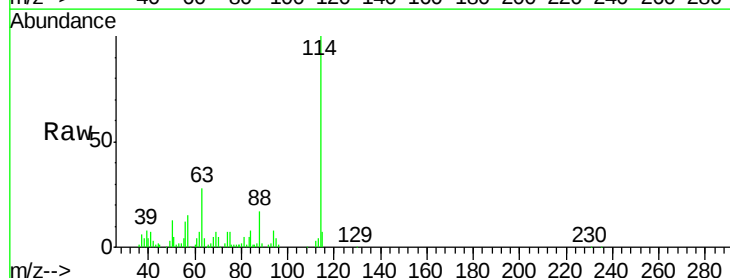
Manual Integrations
APPROVED

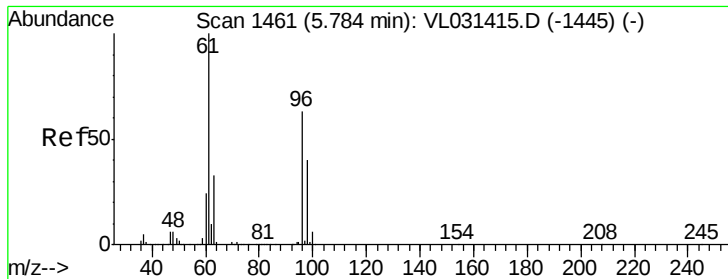
MMDadoda
1/24/2018 5:10:28 PM



#30
Cyclohexane
Concen: 0.16 ppbv m
RT: 7.41 min Scan# 1968
Delta R.T. 0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	84	Resp	15170
Ion Ratio	100	Lower	Upper
56	0.0	109.0	163.4#
41	63.8	73.3	109.9#





#31

cis-1,2-Dichloroethene

Concen: 0.10 ppbv m

RT: 5.77 min Scan# 1458

Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

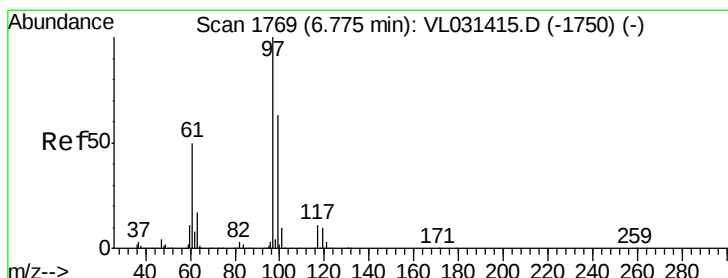
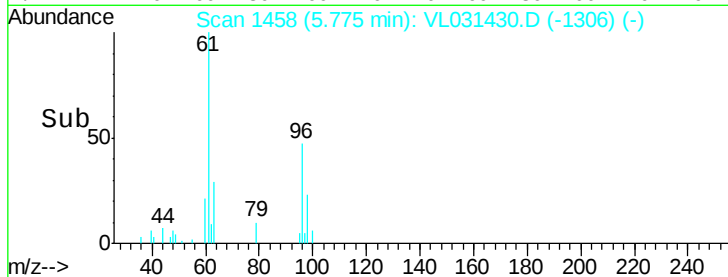
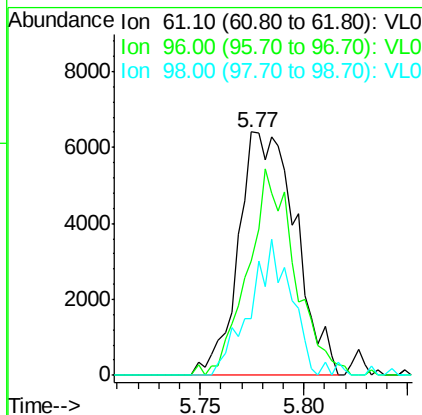
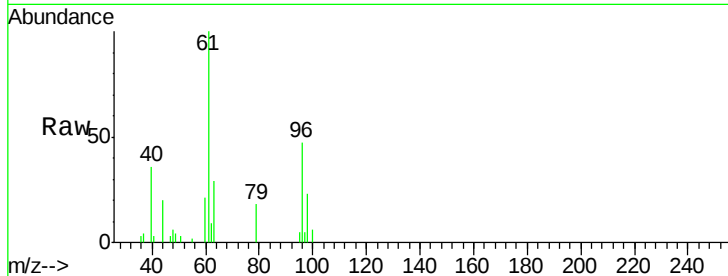
ClientSampleId :

MDL-AIR-5

Tot Ion:	61	Resp:	12294
Ion Ratio	Lower	Upper	
61	100		
96	46.9	51.3	76.9#
98	23.2	33.6	50.4#

Manual Integrations
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MMDadoda
1/24/2018 5:10:28 PM



#32

1,1,1-Trichloroethane

Concen: 0.13 ppbv

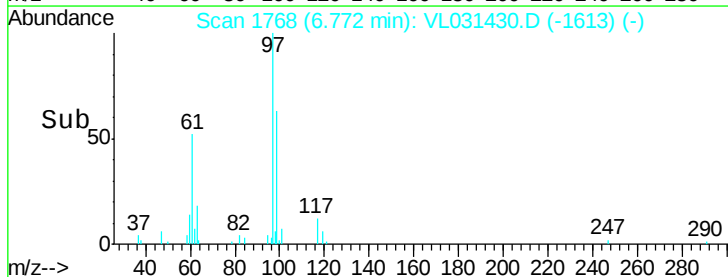
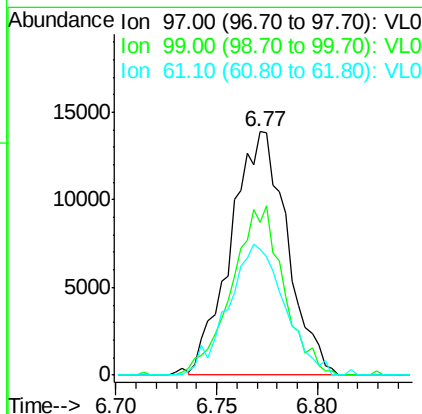
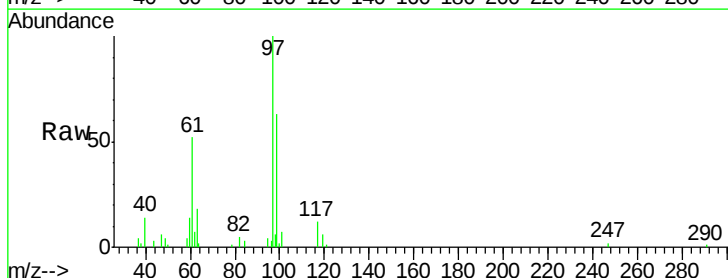
RT: 6.77 min Scan# 1768

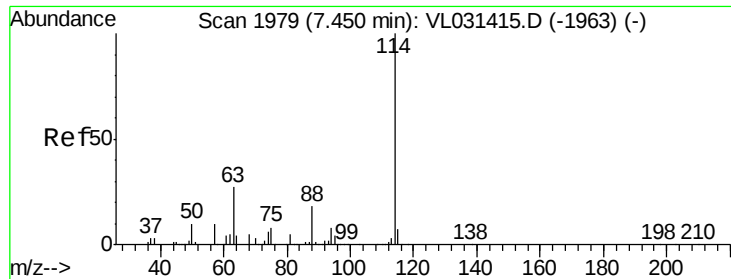
Delta R.T. -0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion:	97	Resp:	27150
Ion Ratio	Lower	Upper	
97	100		
99	63.6	51.9	77.9
61	53.8	40.6	61.0





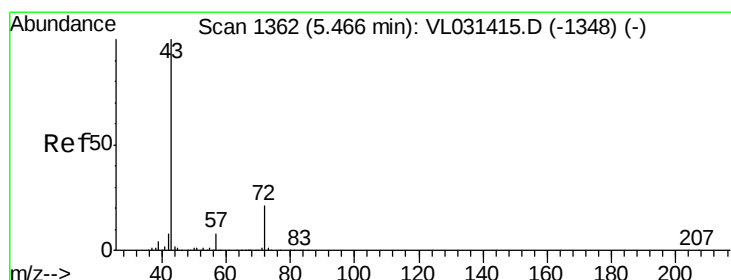
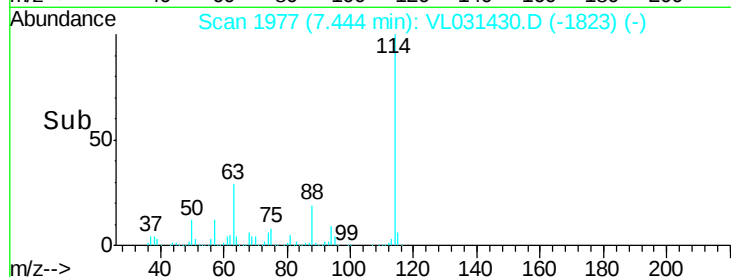
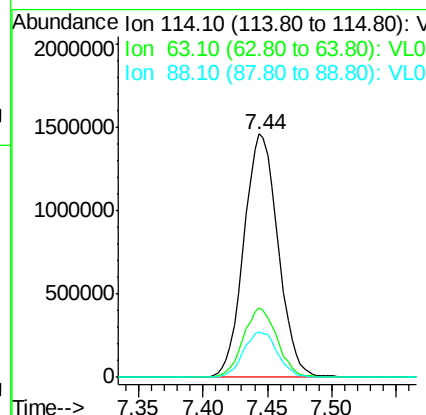
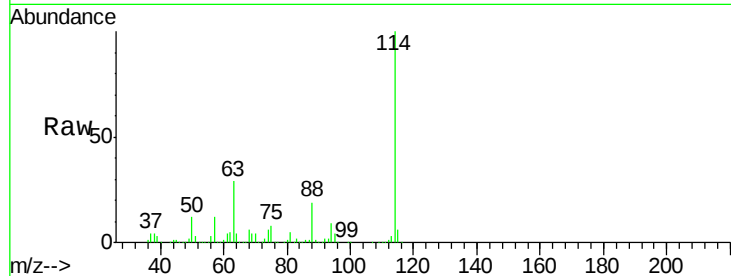
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.5	33.7
88	18.7	14.6	22.0

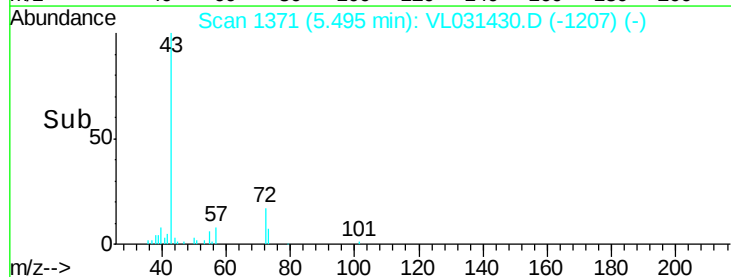
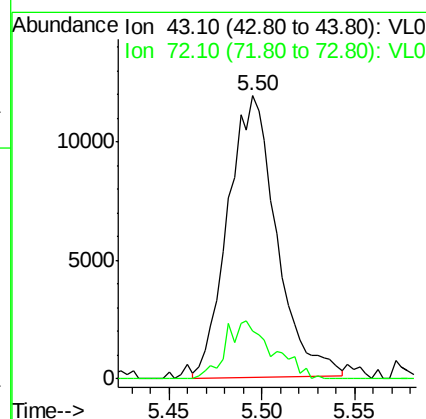
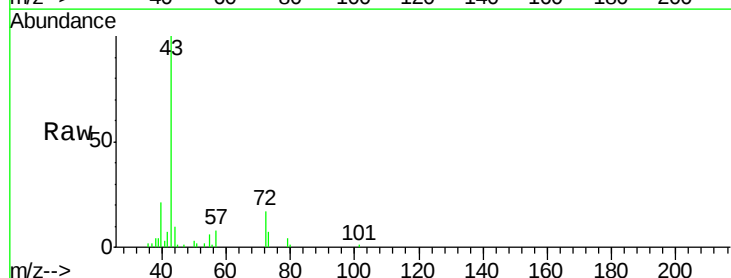
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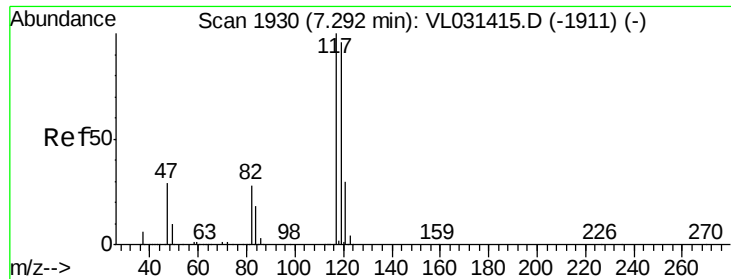
MMDadoda
 1/24/2018 5:10:28 PM



#34
 2-Butanone
 Concen: 0.13 ppbv
 RT: 5.50 min Scan# 1371
 Delta R.T. 0.03 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	16.8	25.2





#35

Carbon Tetrachloride

Concen: 0.13 ppbv m

RT: 7.29 min Scan# 1928

Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

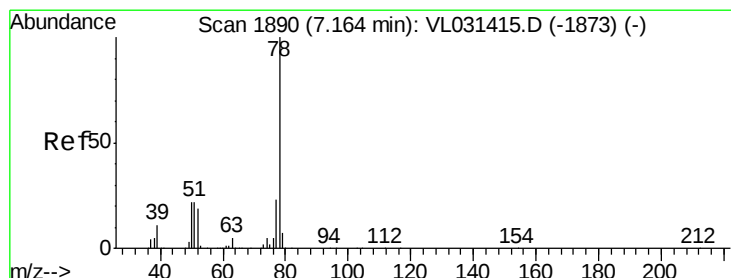
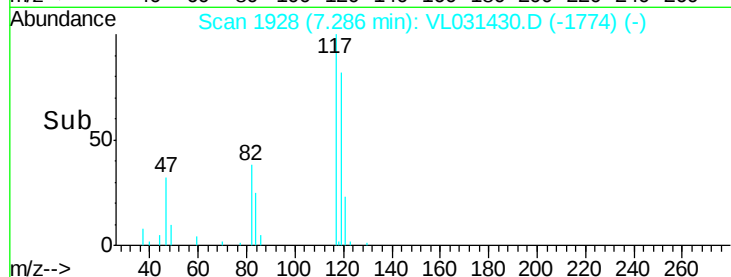
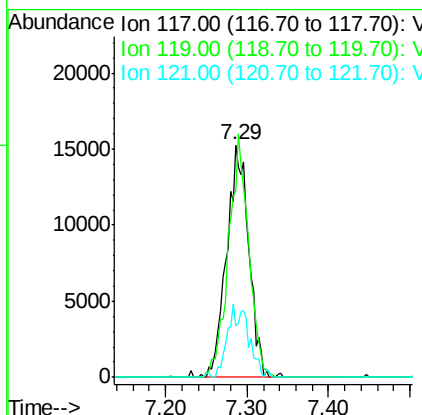
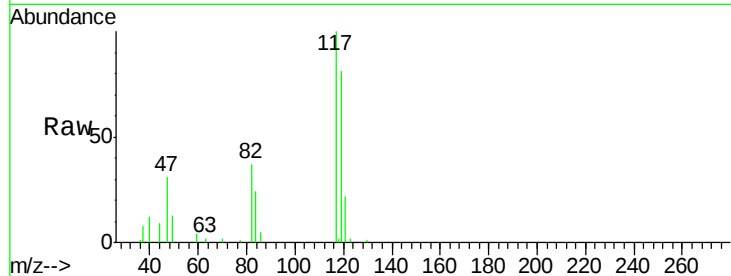
ClientSampleId :

MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
117	100		
119	80.7	74.2	111.4
121	22.1	24.2	36.4

Manual Integrations
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MMDadoda
1/24/2018 5:10:28 PM



#36

Benzene

Concen: 0.11 ppbv

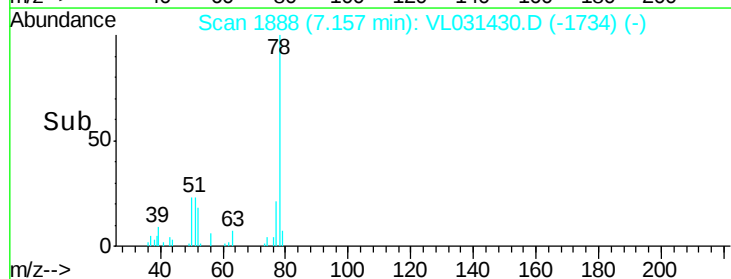
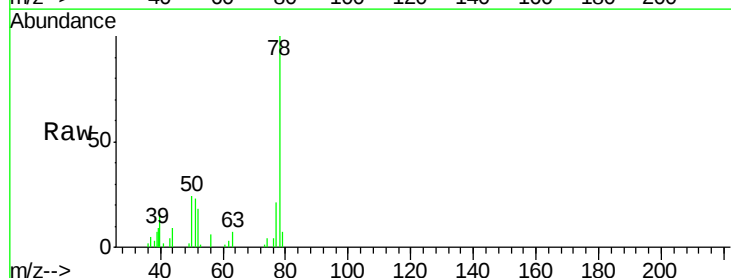
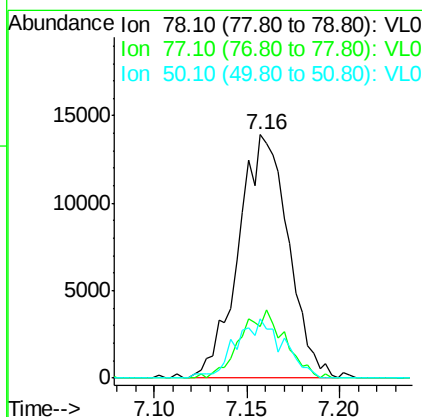
RT: 7.16 min Scan# 1888

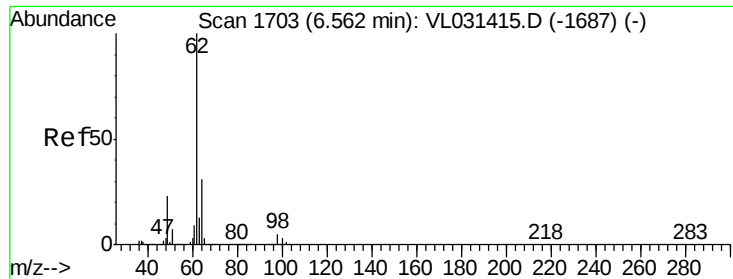
Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	18.7	28.1
50	24.4	18.4	27.6





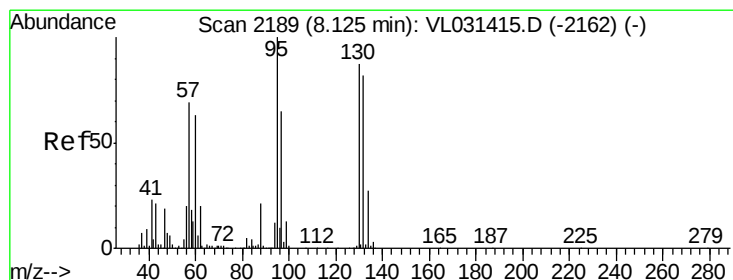
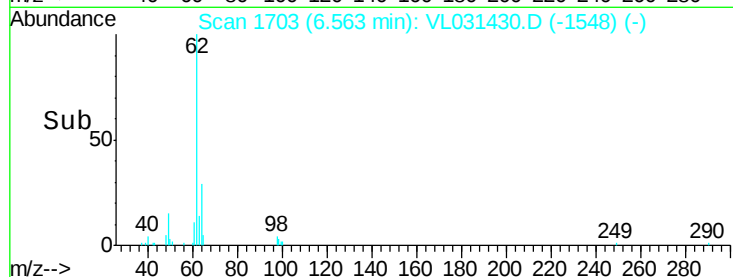
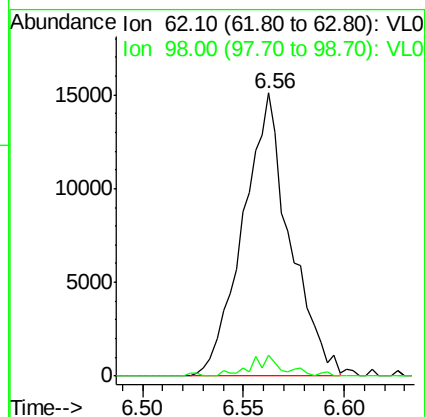
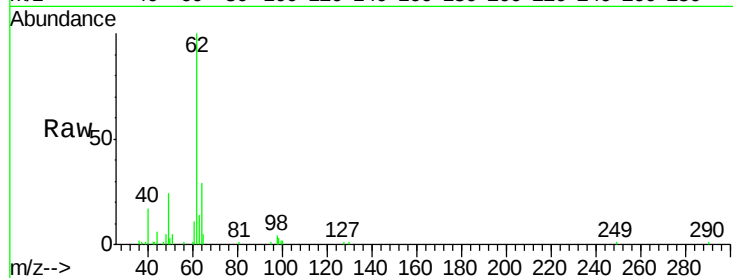
#37
 1,2-Dichloroethane
 Concen: 0.13 ppbv
 RT: 6.56 min Scan# 1703
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	24541		
98	5.4		4.1	6.1

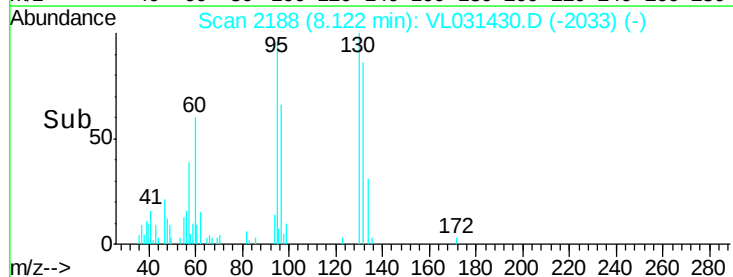
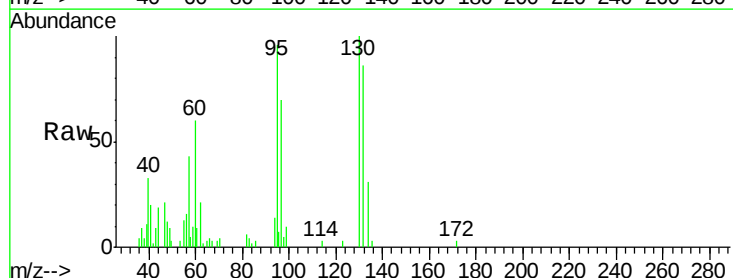
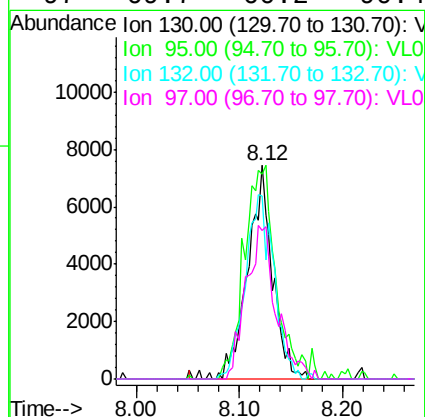
Manual Integrations
 APPROVED

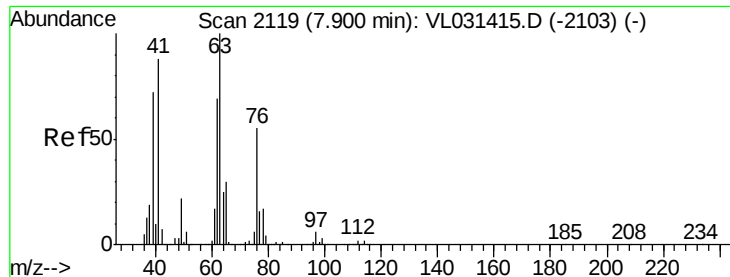
MMDadoda
 1/24/2018 5:10:28 PM



#38
 Trichloroethene
 Concen: 0.13 ppbv m
 RT: 8.12 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	12359		
95	95.7		92.9	139.3
132	85.8		74.9	112.3
97	69.7		60.2	90.4





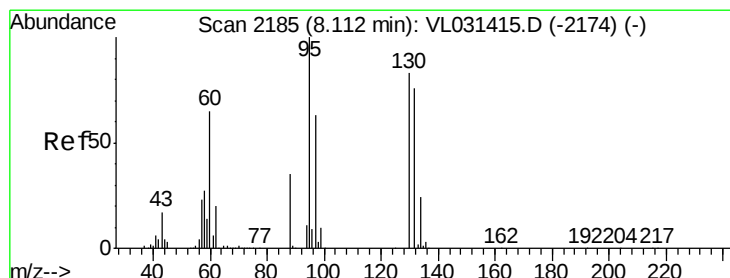
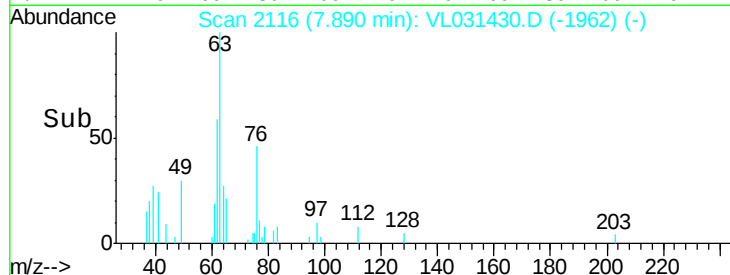
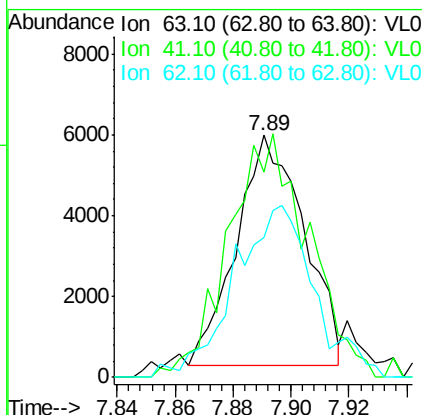
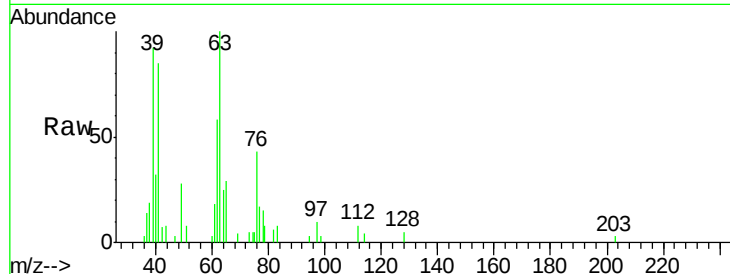
#39
 1,2-Dichloropropane
 Concen: 0.10 ppbv
 RT: 7.89 min Scan# 2116
 Delta R.T. -0.01 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.2	67.6	101.4
62	51.0	51.8	77.6#

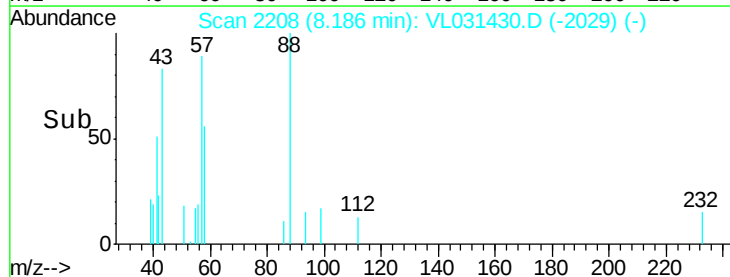
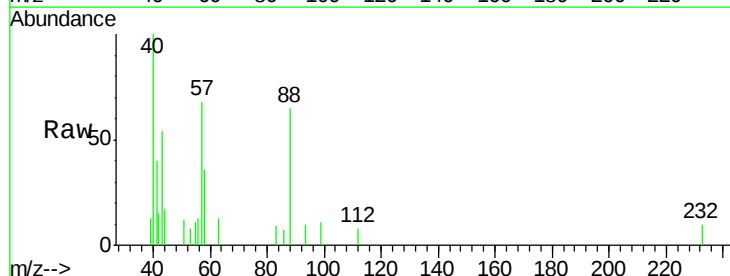
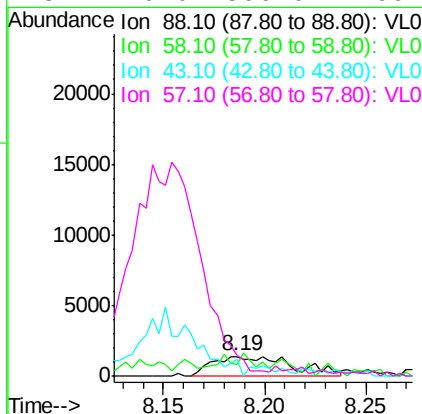
Manual Integrations
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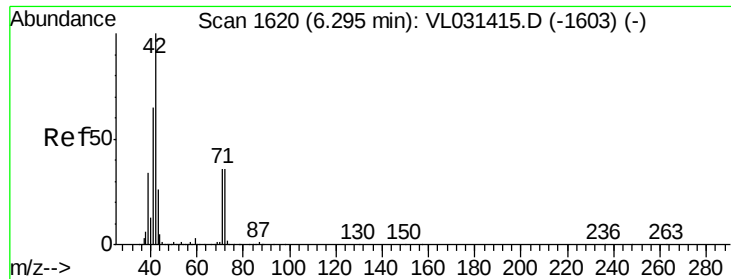
MMDadoda
 1/24/2018 5:10:28 PM



#40
 1,4-Dioxane
 Concen: 0.10 ppbv m
 RT: 8.19 min Scan# 2208
 Delta R.T. 0.07 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	98.2	147.2#
43	0.0	197.3	295.9#
57	0.0	806.0	1209.0#





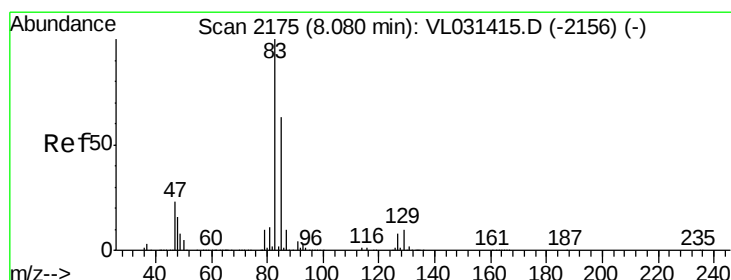
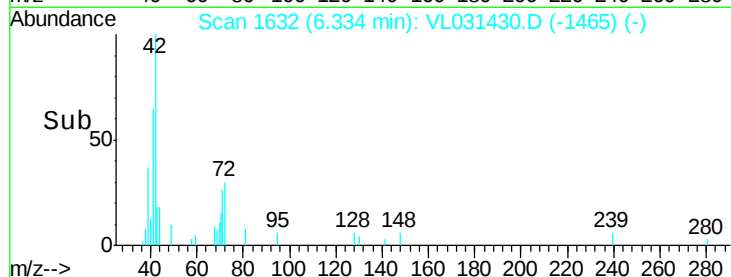
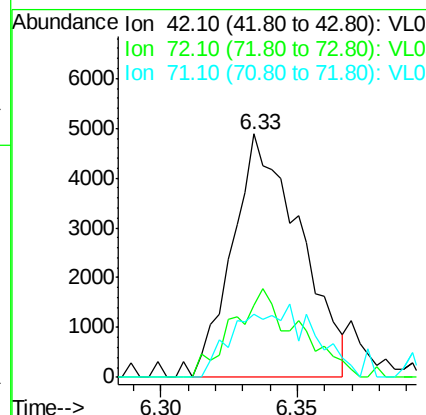
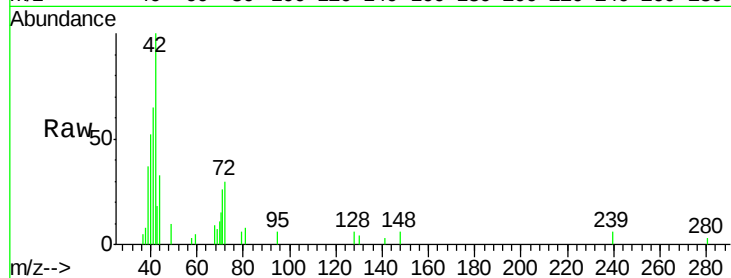
#41
Tetrahydrofuran
Concen: 0.09 ppbv
RT: 6.33 min Scan# 1632
Delta R.T. 0.04 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion:	42	Resp:	8401
Ion Ratio	Lower	Upper	
42	100		
72	36.0	30.4	45.6
71	35.4	29.2	43.8

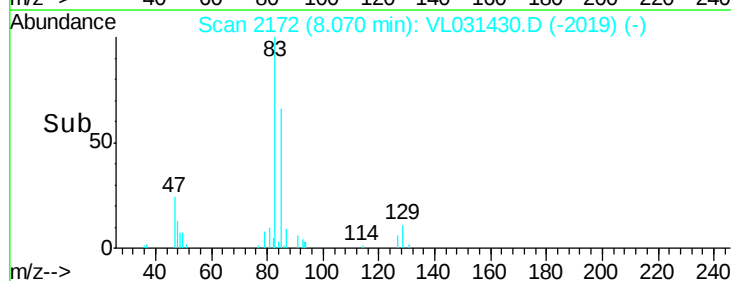
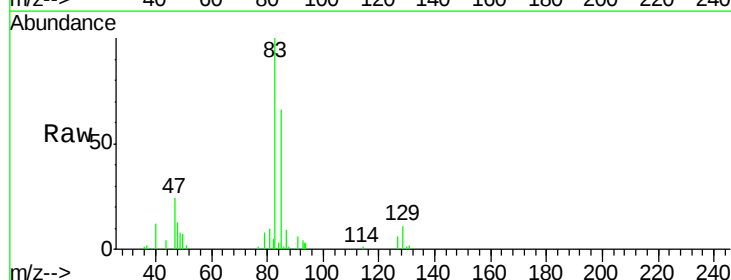
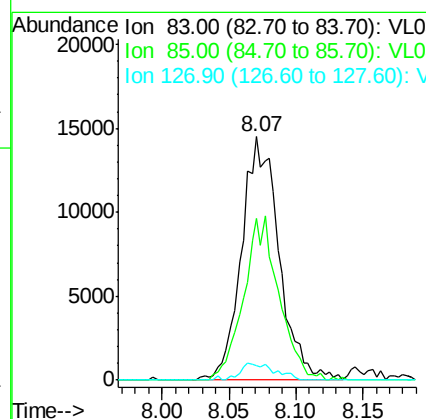
Manual Integrations
APPROVED

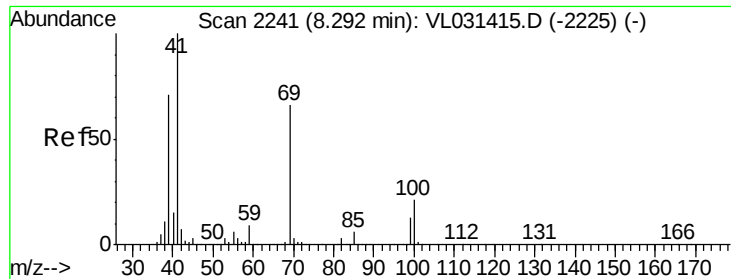
MMDadoda
1/24/2018 5:10:28 PM



#42
Bromodichloromethane
Concen: 0.13 ppbv m
RT: 8.07 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion:	83	Resp:	28342
Ion Ratio	Lower	Upper	
83	100		
85	66.2	52.1	78.1
127	6.2	6.6	10.0#





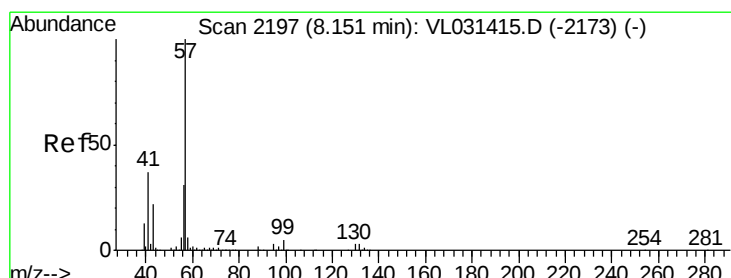
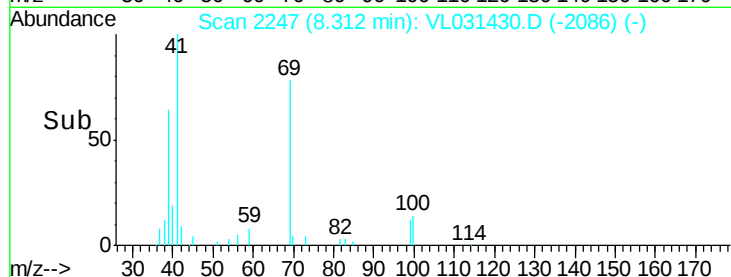
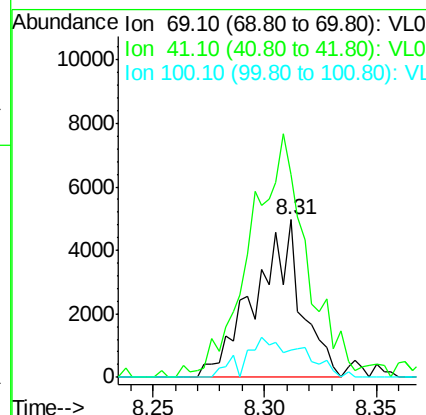
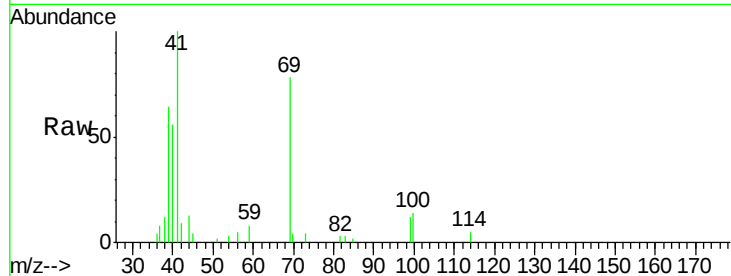
#43
Methvl Methacrylate
Concen: 0.08 ppbv m
RT: 8.31 min Scan# 2247
Delta R.T. 0.02 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	127.0	190.6#
100	0.0	24.6	37.0#

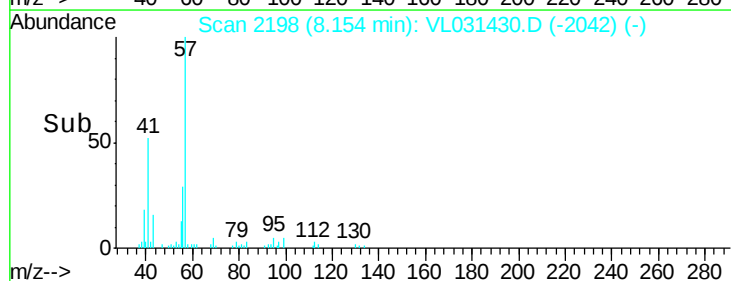
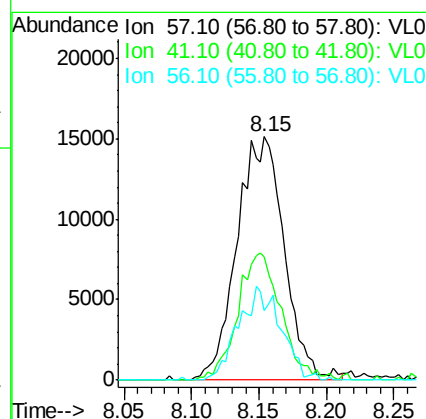
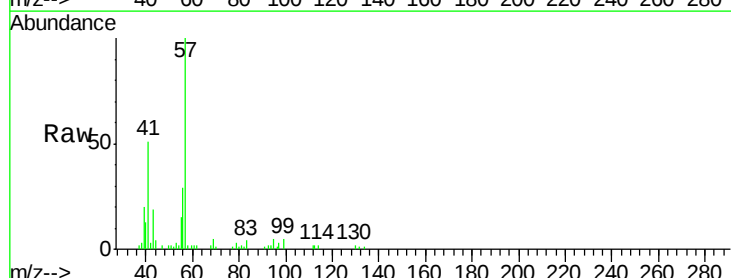
Manual Integrations
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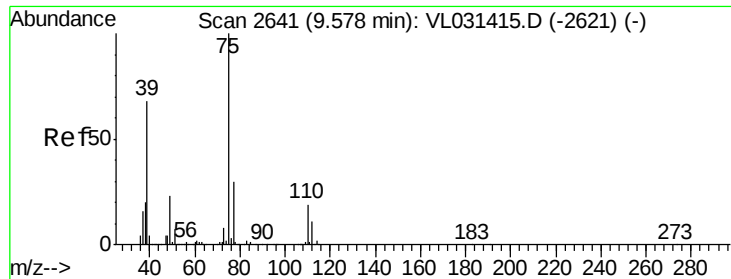
MMDadoda
1/24/2018 5:10:28 PM



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv m
RT: 8.15 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.8	43.2#
56	0.0	24.6	37.0#





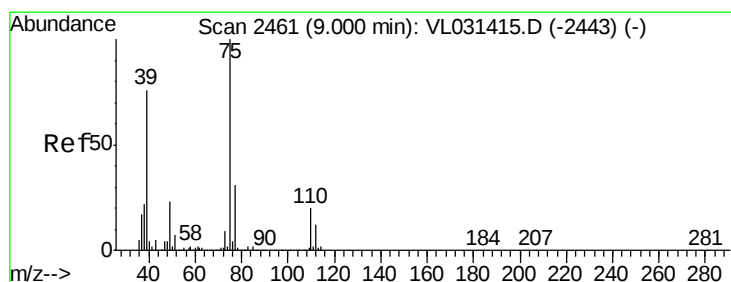
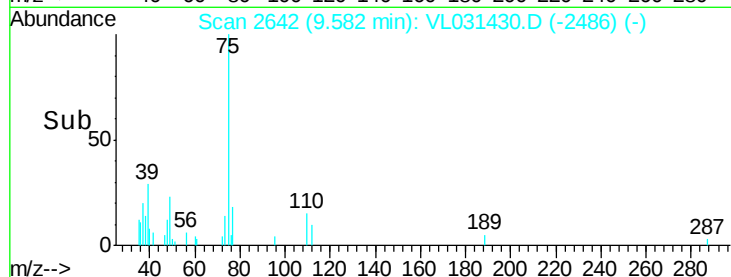
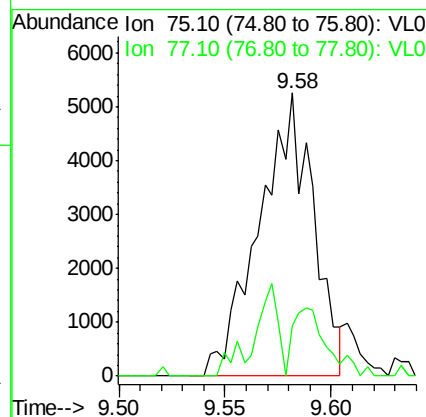
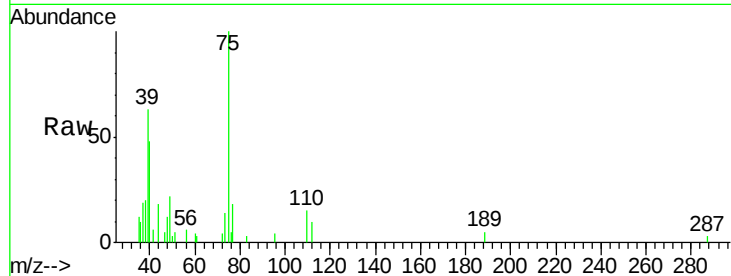
#45
t-1,3-Dichloropropene
Concen: 0.07 ppbv m
RT: 9.58 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion: 75 Resp: 9282
Ion Ratio Lower Upper
75 100
77 17.9 25.3 37.9#

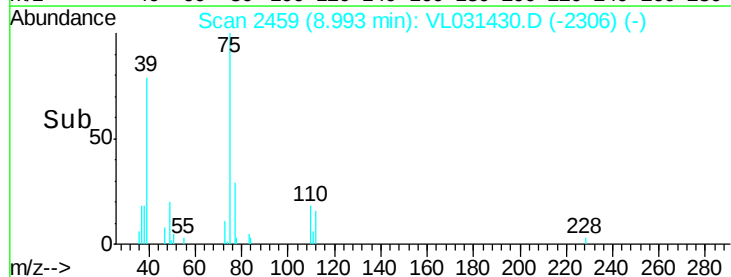
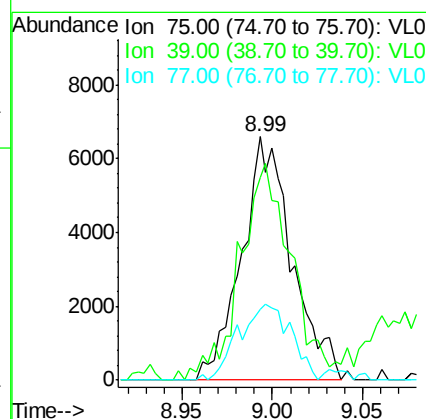
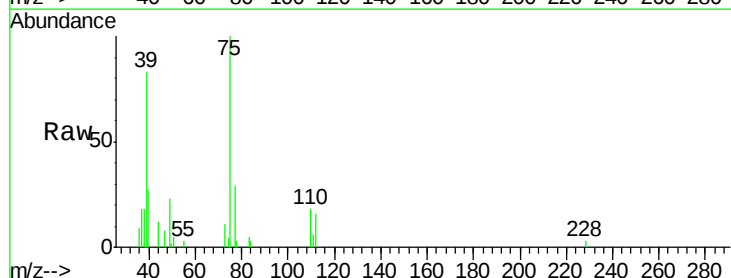
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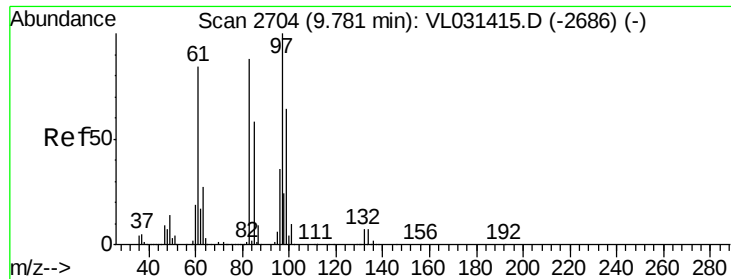
MMDadoda
1/24/2018 5:10:28 PM



#46
cis-1,3-Dichloropropene
Concen: 0.08 ppbv m
RT: 8.99 min Scan# 2459
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion: 75 Resp: 12765
Ion Ratio Lower Upper
75 100
39 83.5 59.4 89.0
77 29.1 25.0 37.4





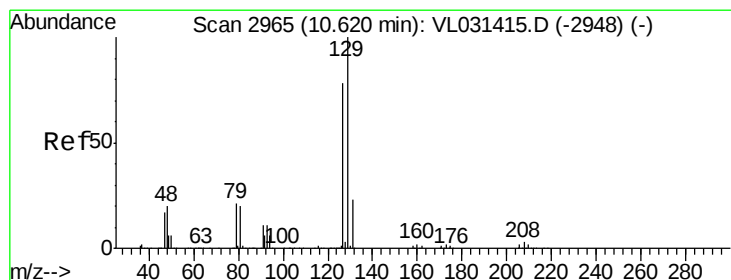
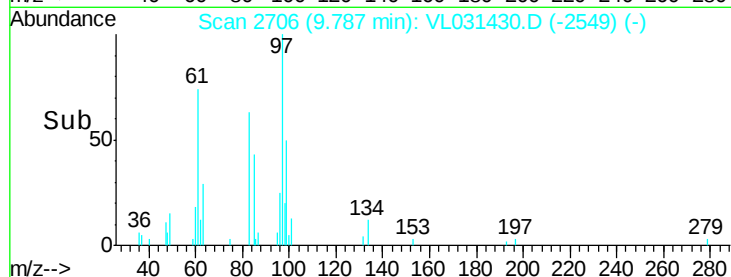
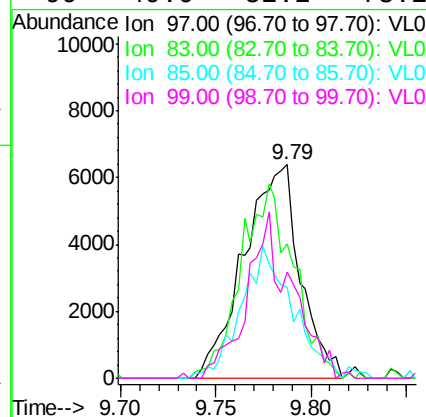
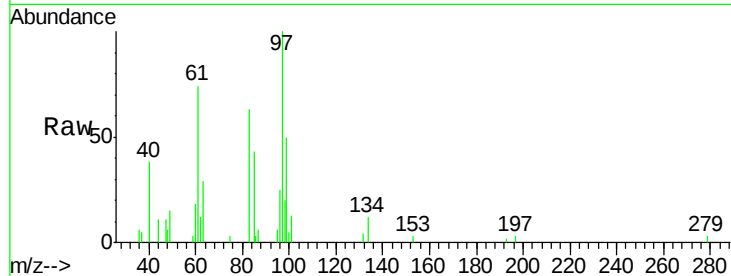
#47
 1,1,2-Trichloroethane
 Concen: 0.12 ppbv m
 RT: 9.79 min Scan# 2706
 Delta R.T. 0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	62.9	71.4	107.2#	
85	42.5	46.2	69.2#	
99	49.9	52.2	78.2#	

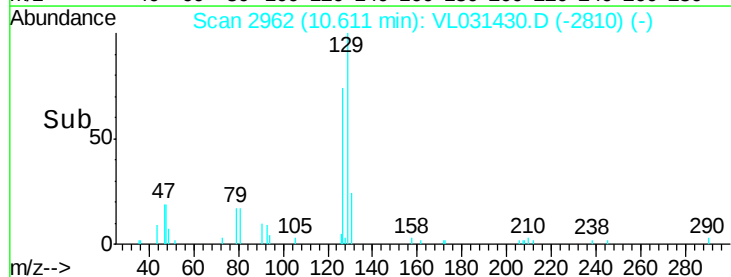
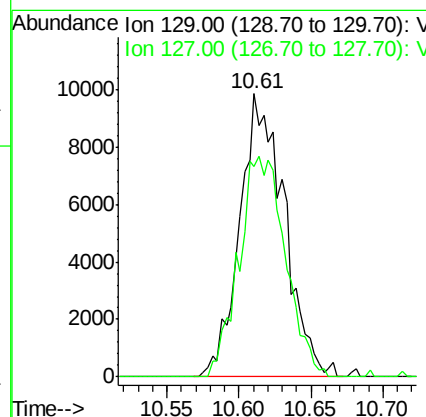
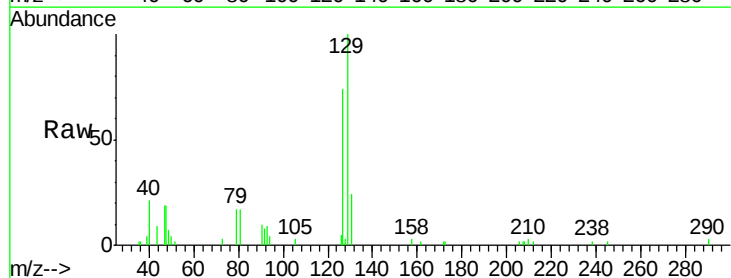
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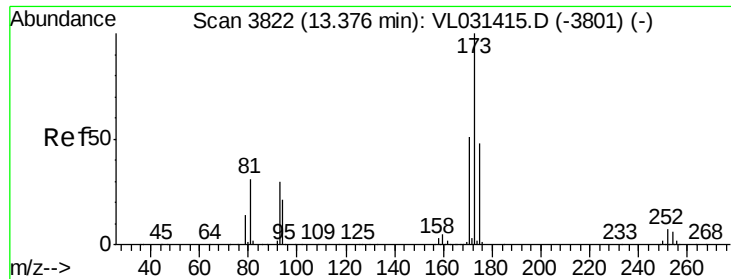
MMDadoda
 1/24/2018 5:10:28 PM



#48
 Dibromochloromethane
 Concen: 0.11 ppbv m
 RT: 10.61 min Scan# 2962
 Delta R.T. -0.01 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	81.6	39.4	118.1	





#49

Bromoform

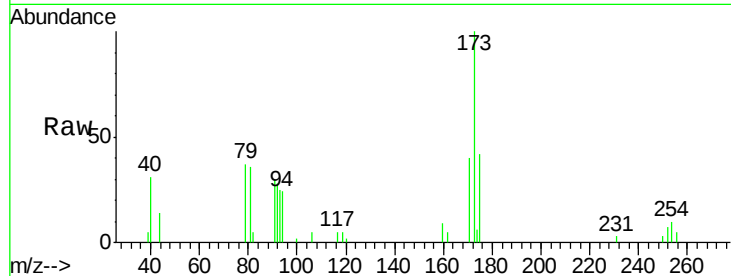
Concen: 0.10 ppbv m
RT: 13.37 min Scan# 3821
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

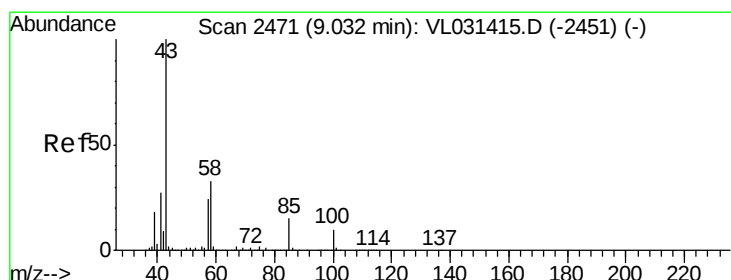
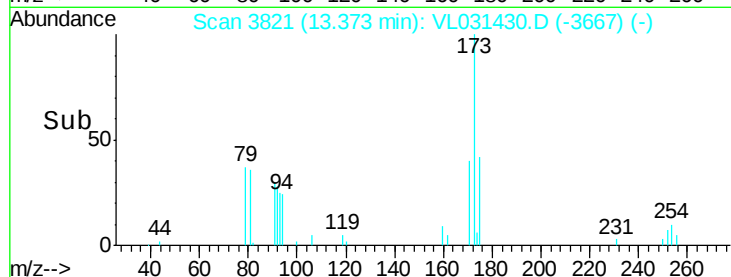
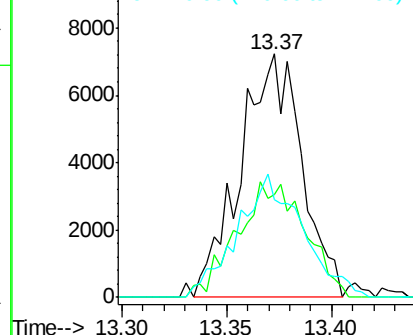
Tot Ion	Ratio	Lower	Upper
173	100		
175	52.1	39.0	58.4
171	53.4	42.0	63.0

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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

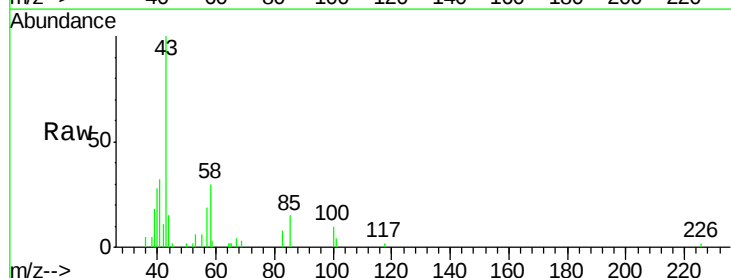


#50

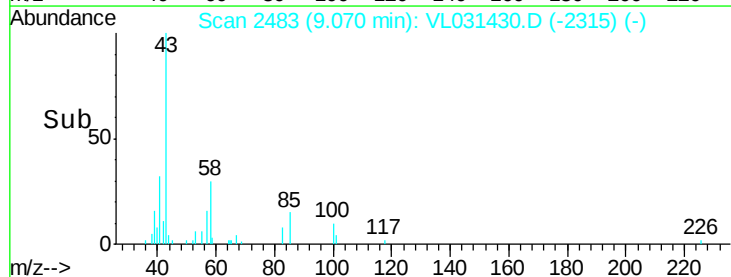
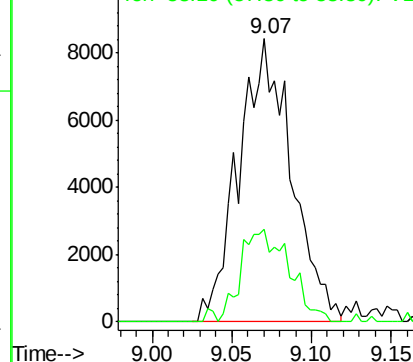
4-Methyl-2-Pentanone

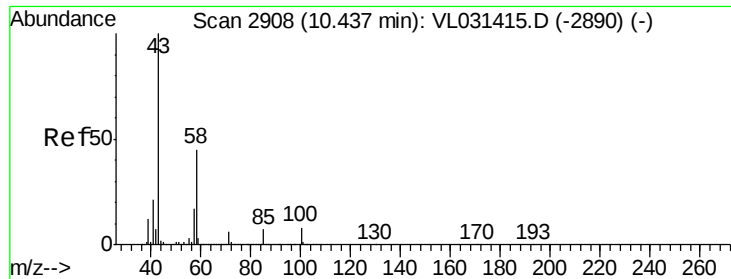
Concen: 0.08 ppbv m
RT: 9.07 min Scan# 2483
Delta R.T. 0.04 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.1	40.7#



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





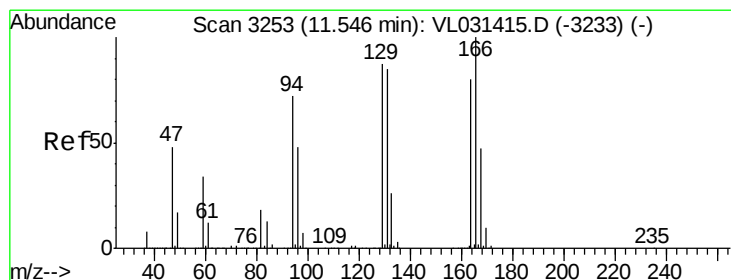
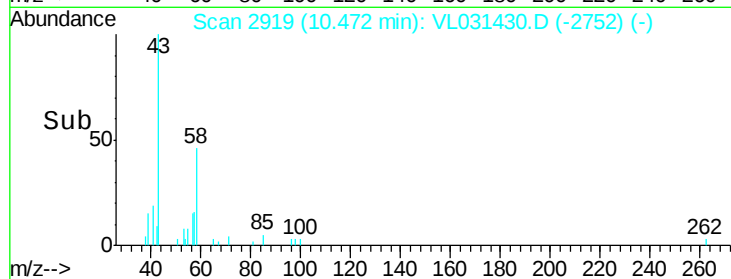
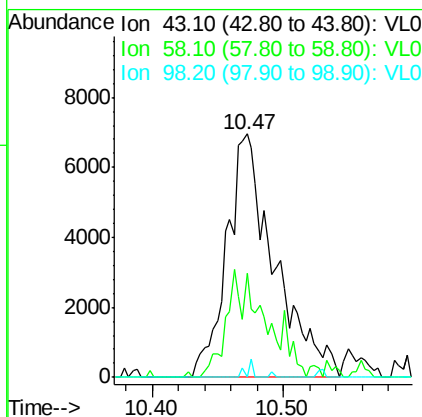
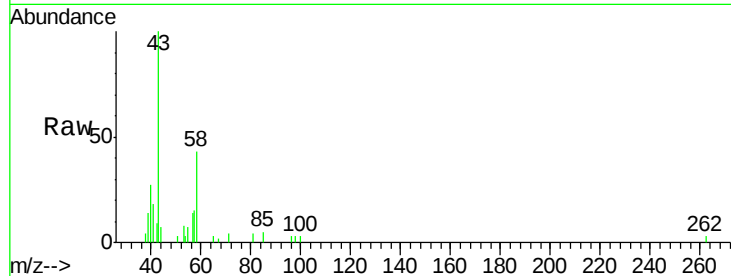
#51
2-Hexanone
Concen: 0.08 ppbv m
RT: 10.47 min Scan# 2919
Delta R.T. 0.04 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.3	36.2	54.4
98	0.0	0.1	0.1#

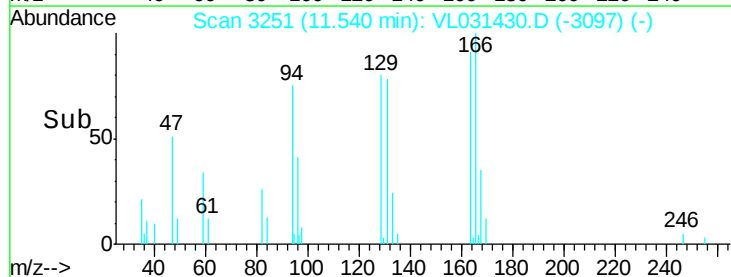
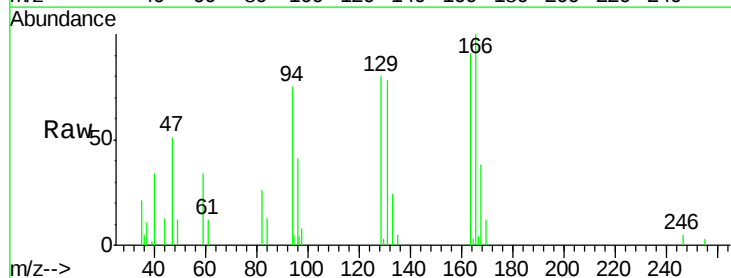
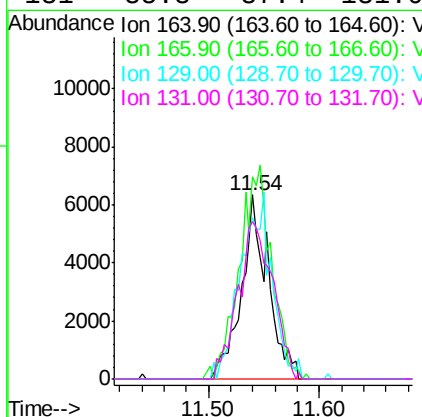
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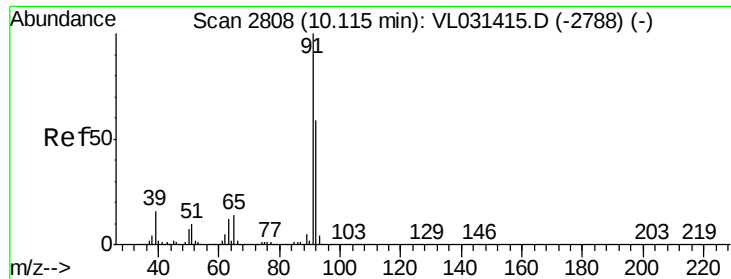
MMDadoda
1/24/2018 5:10:28 PM



#52
Tetrachloroethene
Concen: 0.12 ppbv m
RT: 11.54 min Scan# 3251
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.4	100.2	150.2
129	87.9	91.4	137.0#
131	85.8	87.4	131.0#





#53

Toluene

Concen: 0.08 ppbv

RT: 10.11 min Scan# 2806

Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-5

Tot Ion: 91 Resp: 23794

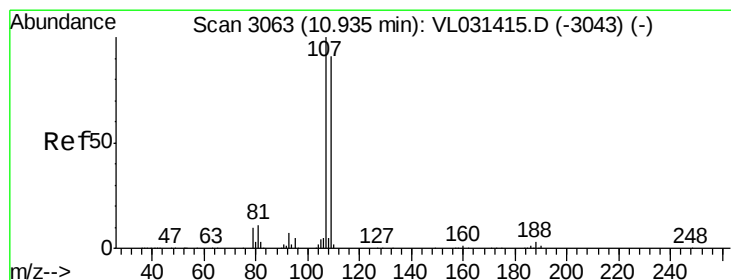
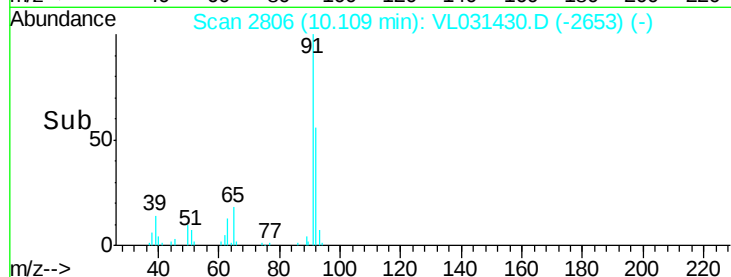
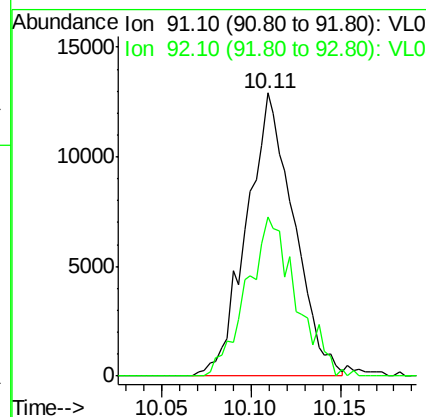
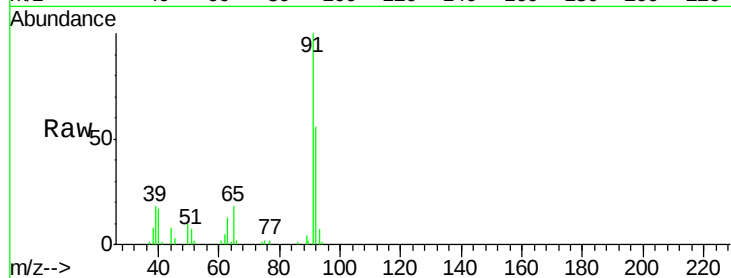
Ion Ratio Lower Upper

91 100

92 58.9 47.8 71.6

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#54

1,2-Dibromoethane

Concen: 0.11 ppbv m

RT: 10.92 min Scan# 3059

Delta R.T. -0.01 min

Lab File: VL031430.D

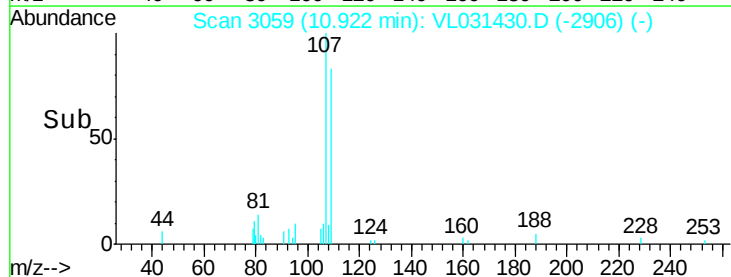
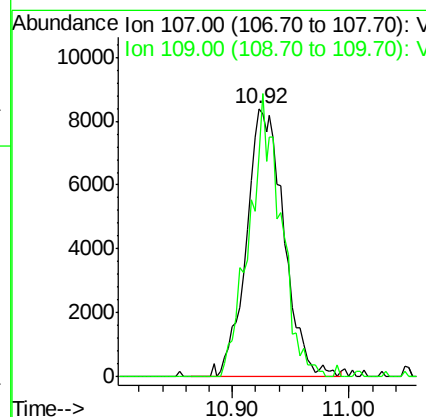
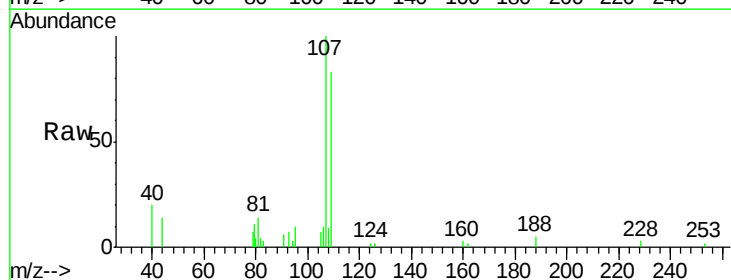
Acq: 23 Jan 2018 00:15

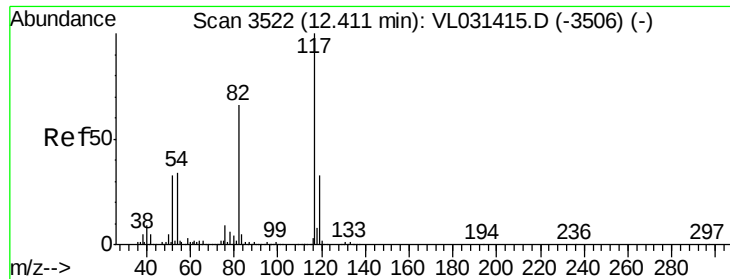
Tgt Ion: 107 Resp: 18767

Ion Ratio Lower Upper

107 100

109 82.6 75.5 113.3





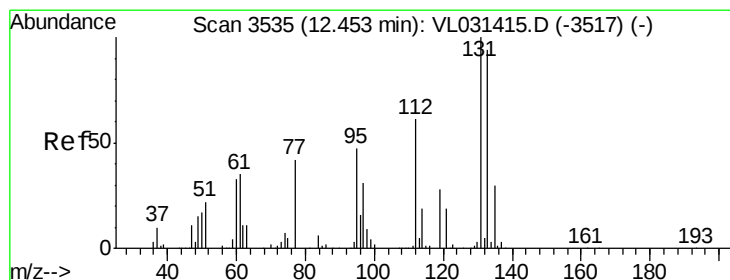
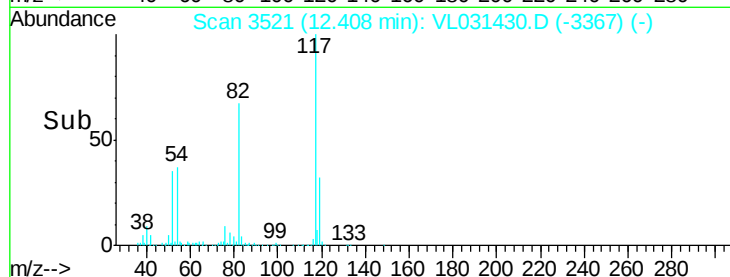
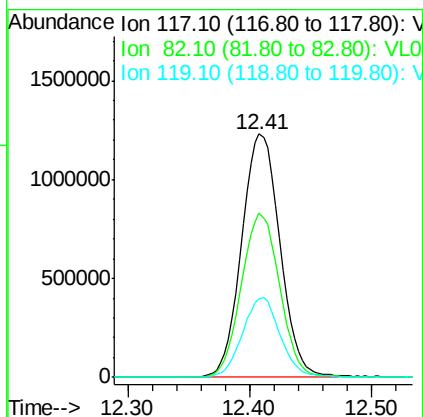
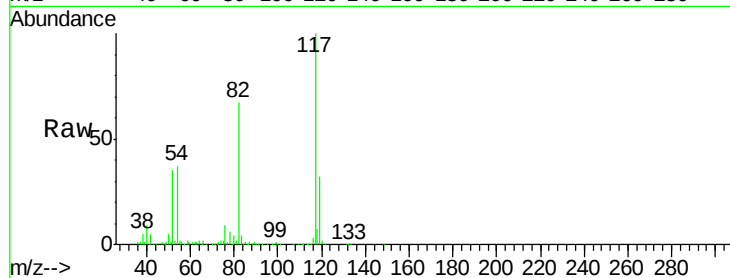
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.0	51.8	77.6
119	32.5	24.2	36.2

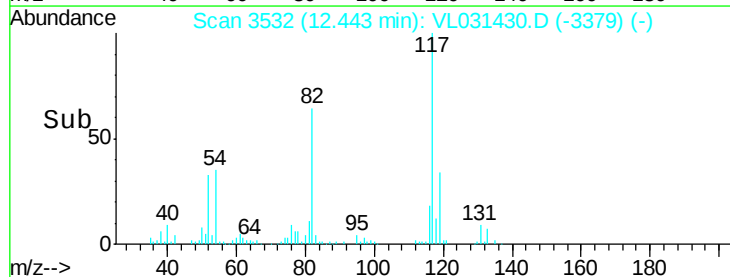
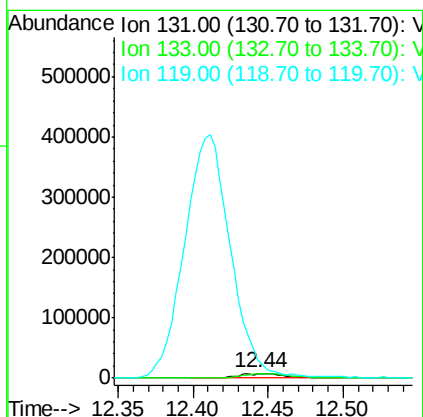
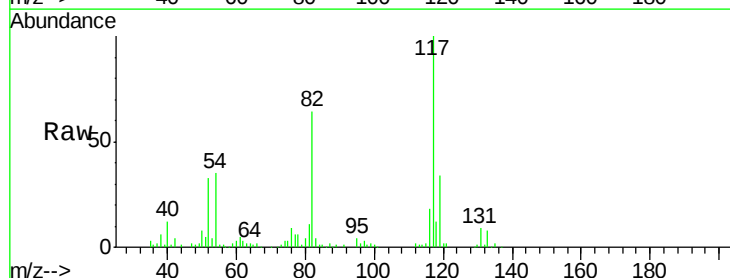
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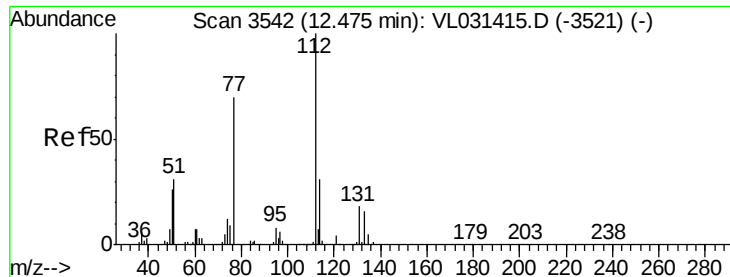
MMDadoda
1/24/2018 5:10:28 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.13 ppbv m
RT: 12.44 min Scan# 3532
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.2	76.9	115.3
119	0.0	47.7	71.5#





#57

Chlorobenzene

Concen: 0.13 ppbv

RT: 12.47 min Scan# 3540

Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

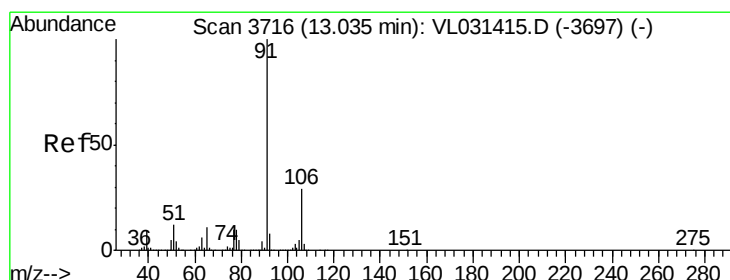
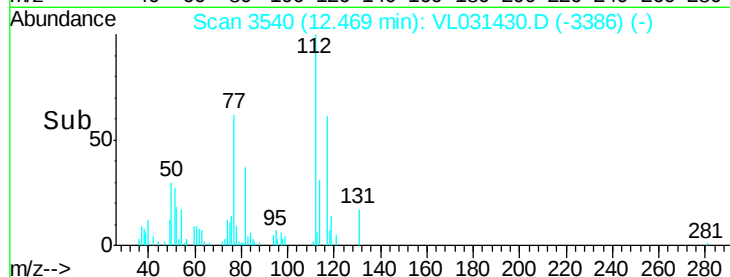
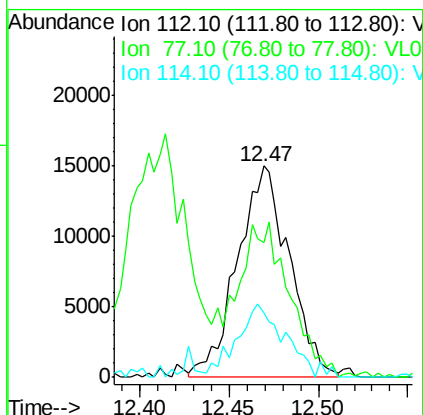
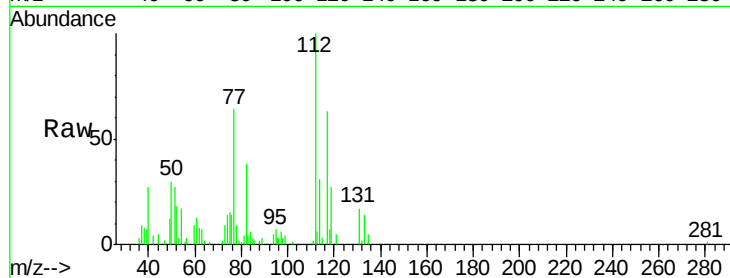
ClientSampled :

MDL-AIR-5

Tot Ion:	112	Resp:	30440
Ion Ratio	Lower	Upper	
112	100		
77	63.8	56.0	84.0
114	31.4	29.1	35.5

Manual Integrations
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1/24/2018 5:10:28 PM



#58

Ethyl Benzene

Concen: 0.09 ppbv m

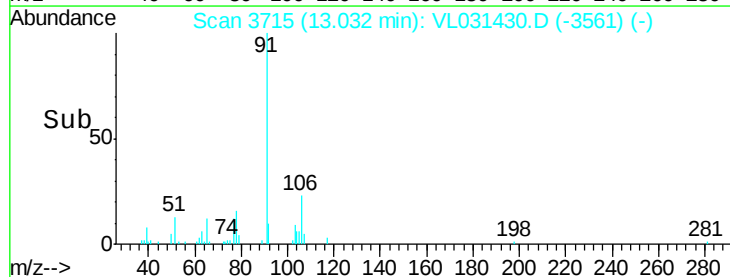
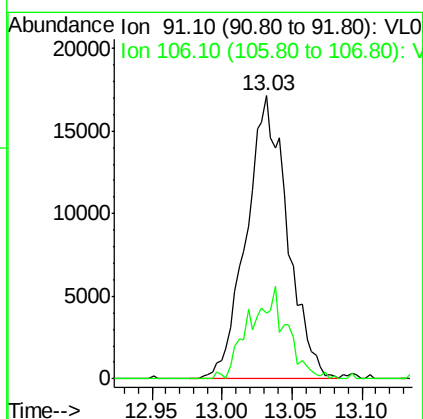
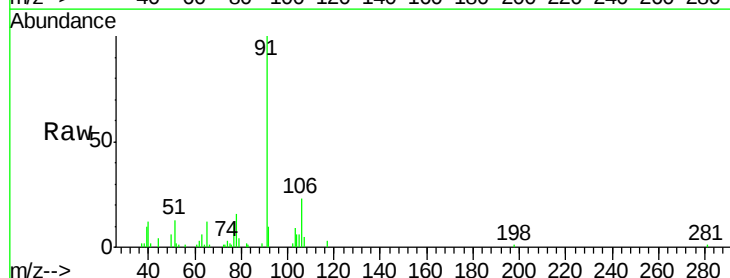
RT: 13.03 min Scan# 3715

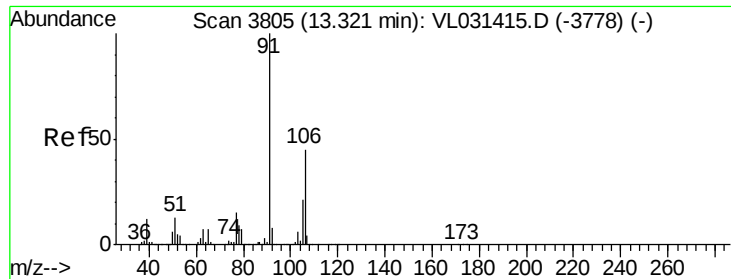
Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion:	91	Resp:	34849
Ion Ratio	Lower	Upper	
91	100		
106	23.4	23.8	35.6#





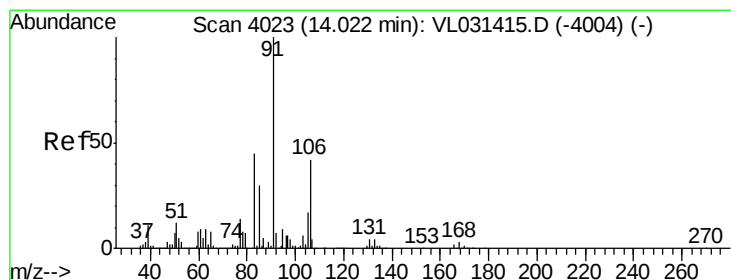
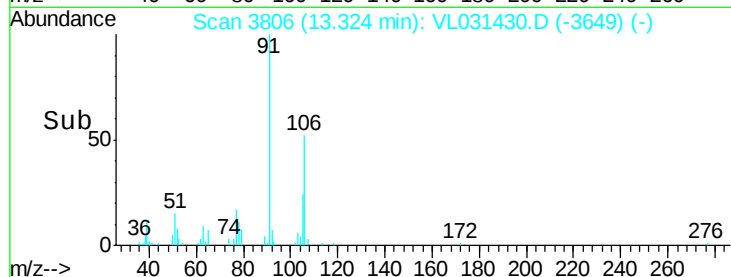
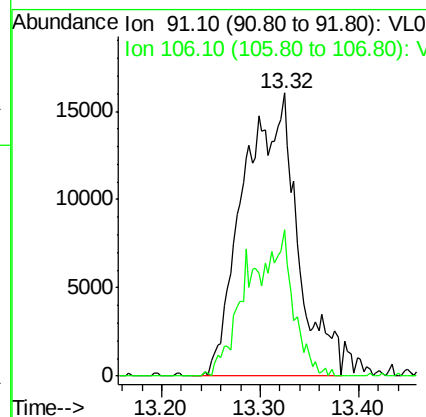
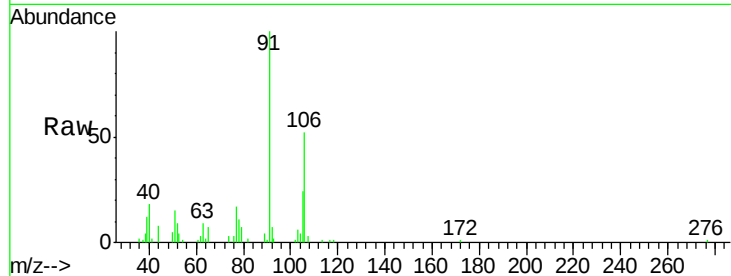
#59
m/p-Xylene
Concen: 0.18 ppbv m
RT: 13.32 min Scan# 3806
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion: 91 Resp: 60916
Ion Ratio Lower Upper
91 100
106 42.5 35.6 53.4

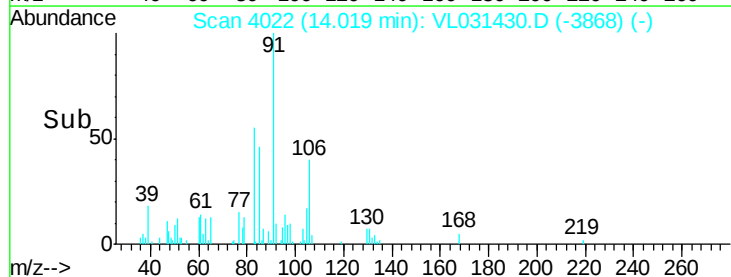
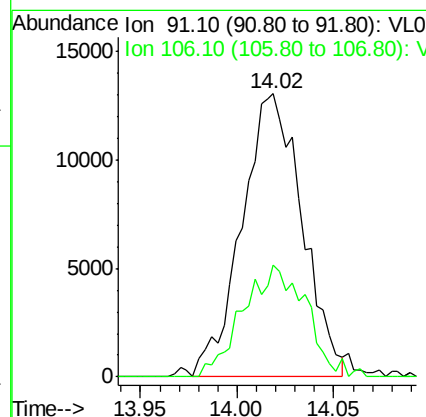
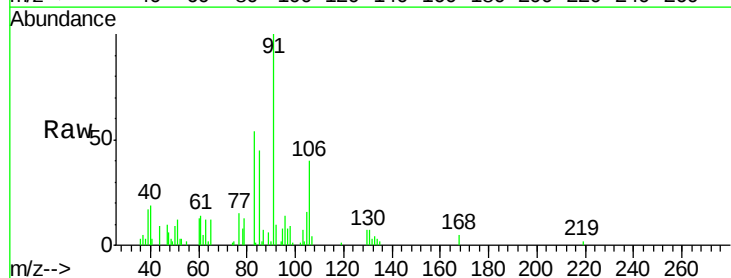
Manual Integrations
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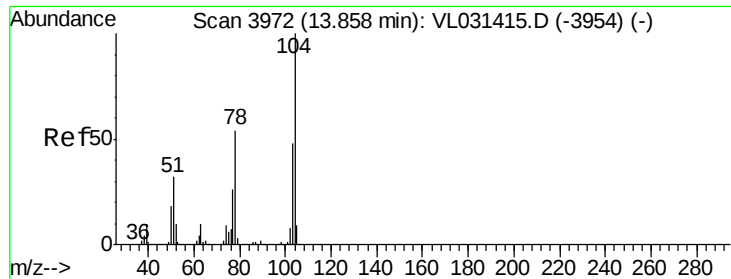
MMDadoda
1/24/2018 5:10:28 PM



#60
o-Xylene
Concen: 0.08 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion: 91 Resp: 28251
Ion Ratio Lower Upper
91 100
106 41.2 21.3 64.0





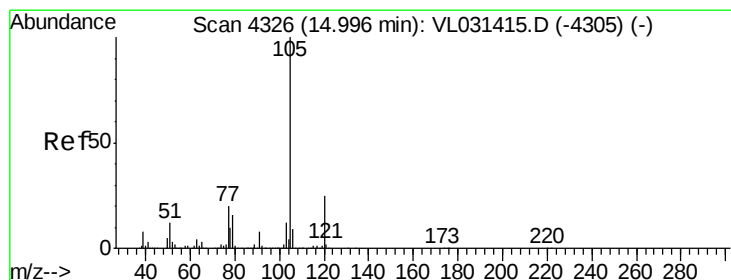
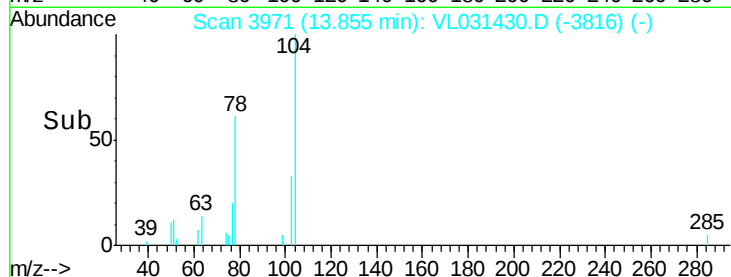
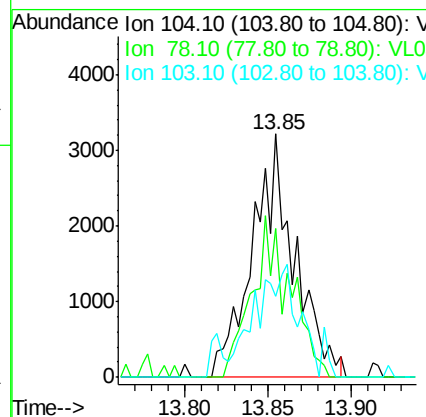
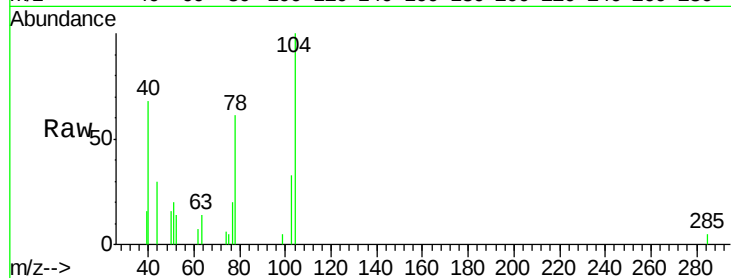
#61
Stvrene
Concen: 0.08 ppbv m
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.3	45.4	68.0
103	0.0	38.6	57.8#

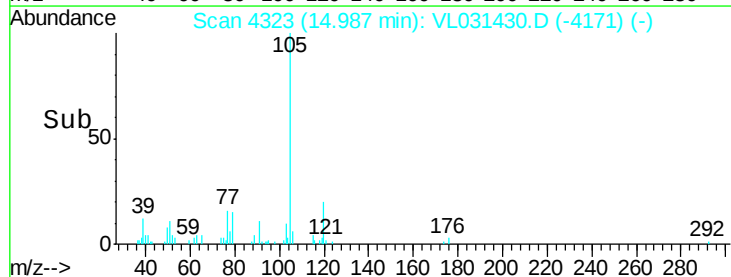
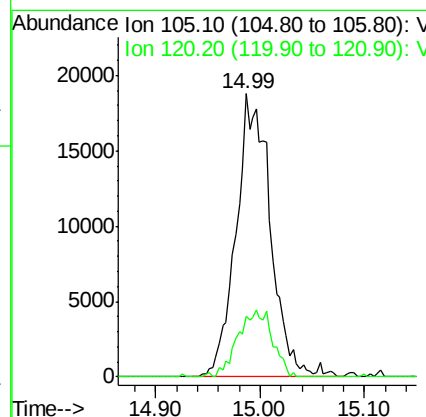
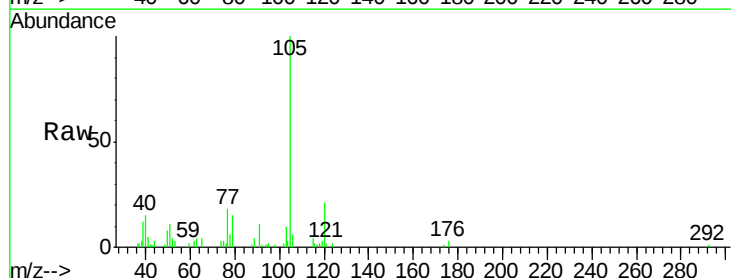
Manual Integrations
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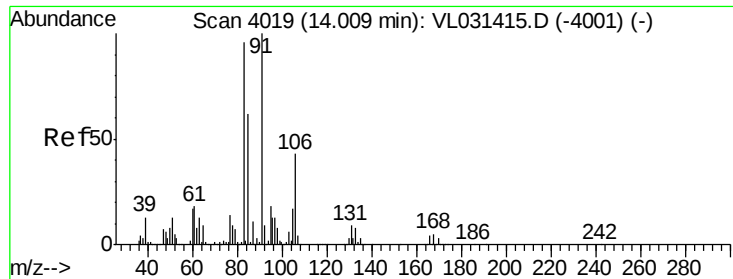
MMDadoda
1/24/2018 5:10:28 PM



#62
Isopropylbenzene
Concen: 0.10 ppbv m
RT: 14.99 min Scan# 4323
Delta R.T. -0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.8	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.12 ppbv m

RT: 14.00 min Scan# 4017

Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

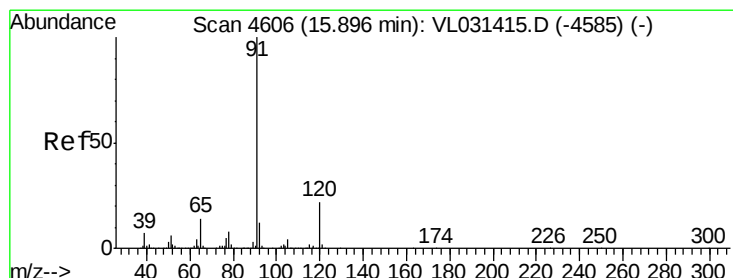
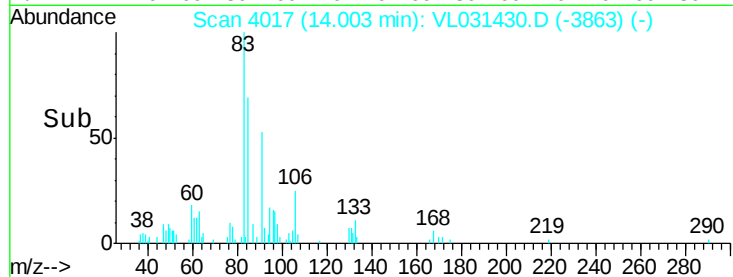
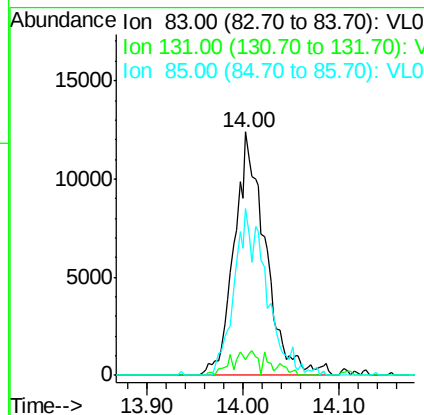
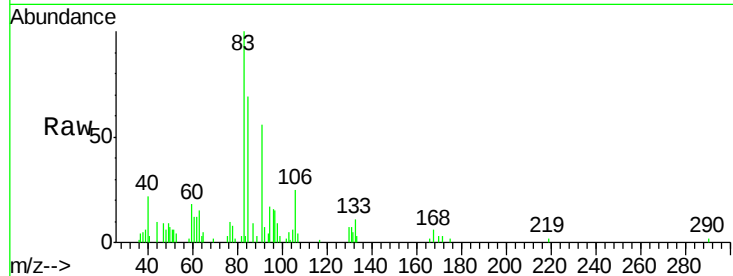
ClientSampleId :

MDL-AIR-5

Tot Ion	83	Resp	28075
Ion	Ratio	Lower	Upper
83	100		
131	11.3	4.8	14.3
85	70.1	32.4	97.0

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1/24/2018 5:10:28 PM



#64

n-propylbenzene

Concen: 0.08 ppbv m

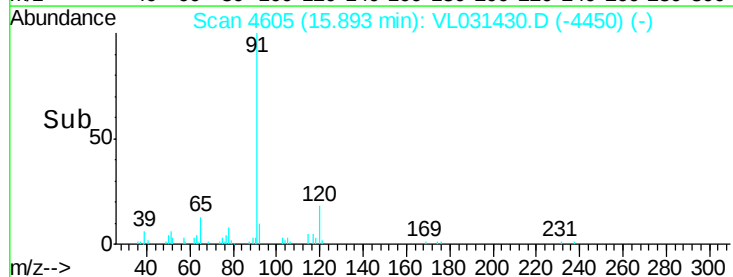
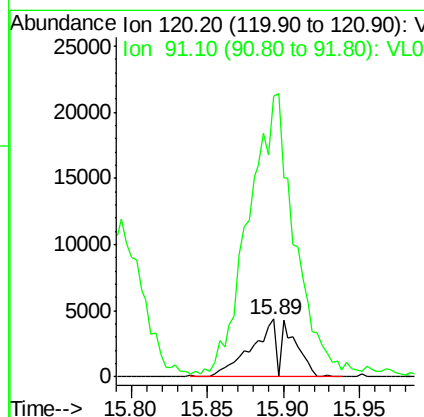
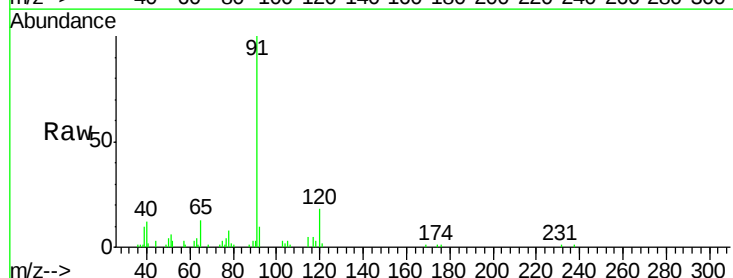
RT: 15.89 min Scan# 4605

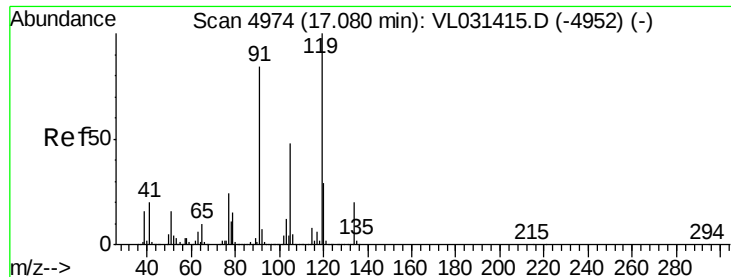
Delta R.T. -0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion	120	Resp	7914
Ion	Ratio	Lower	Upper
120	100		
91	0.0	389.8	584.6#





#65

tert-Butylbenzene

Concen: 0.08 ppbv m

RT: 17.08 min Scan# 4975

Delta R.T. 0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

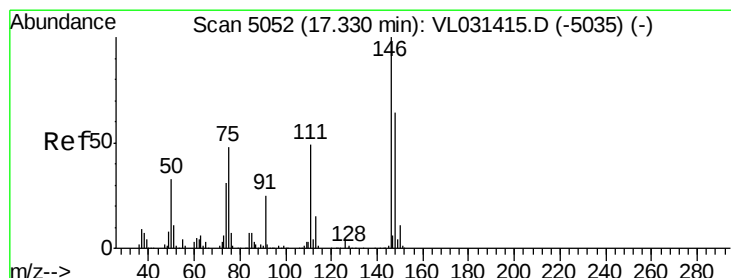
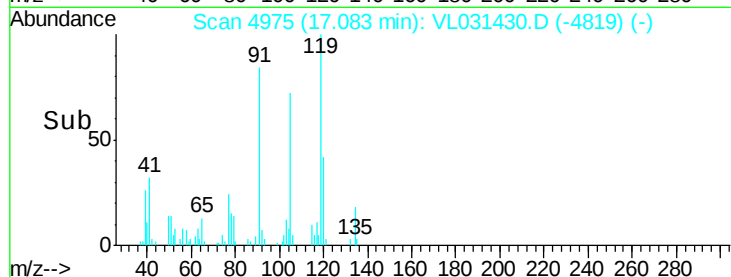
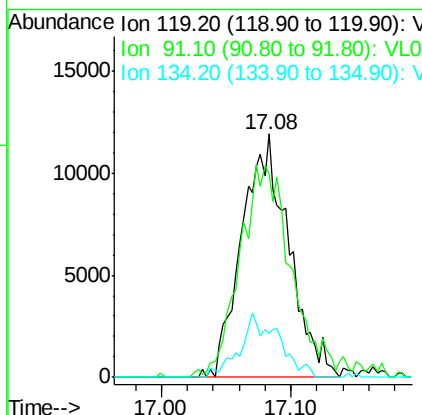
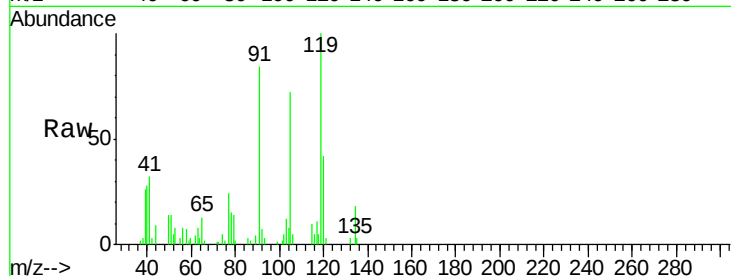
ClientSampleId :

MDL-AIR-5

Tot Ion:	119	Resp:	29849
Ion	Ratio	Lower	Upper
119	100		
91	96.7	69.0	103.6
134	21.9	15.7	23.5

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#66

Benzyl Chloride

Concen: 0.10 ppbv m

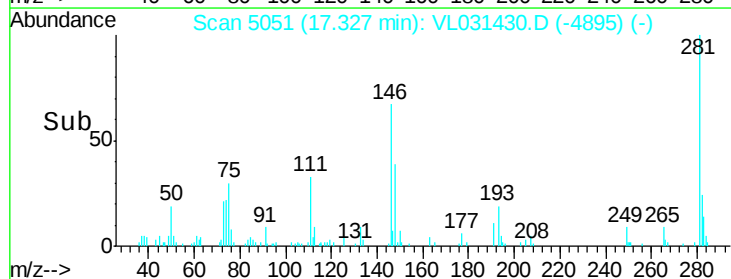
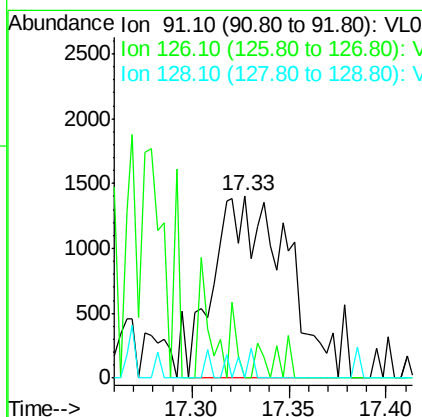
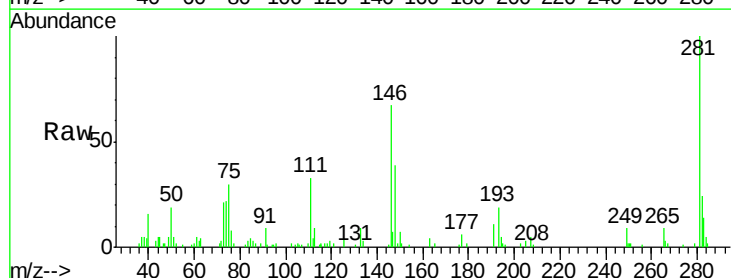
RT: 17.33 min Scan# 5051

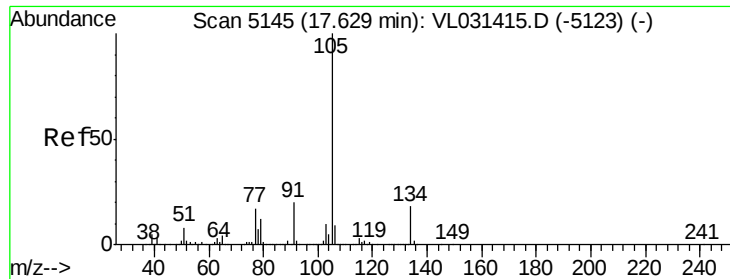
Delta R.T. 0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion:	91	Resp:	3632
Ion	Ratio	Lower	Upper
91	100		
126	7.8	13.8	20.8#
128	0.0	4.6	6.8#





#67

sec-Butylbenzene

Concen: 0.09 ppbv m

RT: 17.63 min Scan# 5145

Delta R.T. -0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-5

Tot Ion:105 Resp: 47211

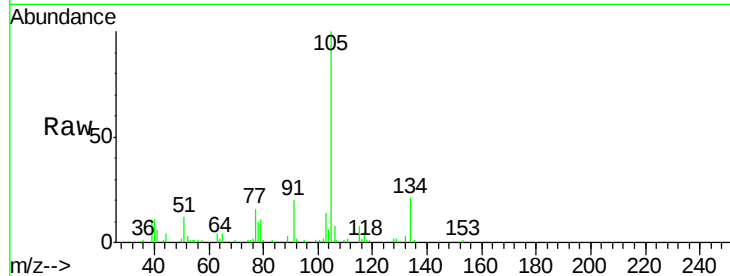
Ion Ratio Lower Upper

105 100

134 17.9 14.5 21.7

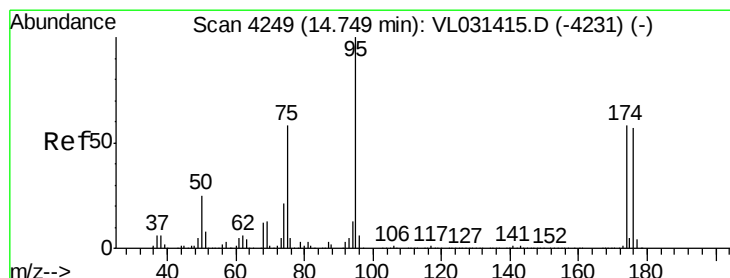
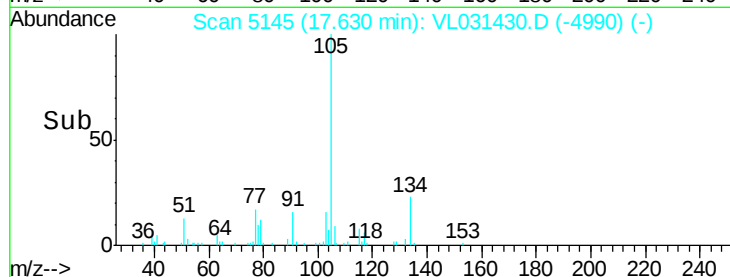
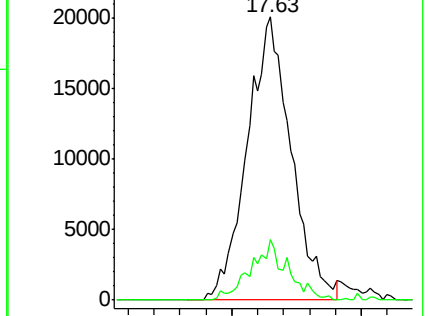
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1/24/2018 5:10:28 PM



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: 10.22 ppbv

RT: 14.74 min Scan# 4247

Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

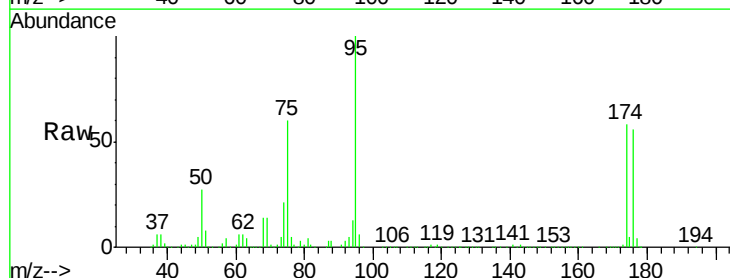
Tgt Ion: 95 Resp: 2182695

Ion Ratio Lower Upper

95 100

174 60.0 48.2 72.4

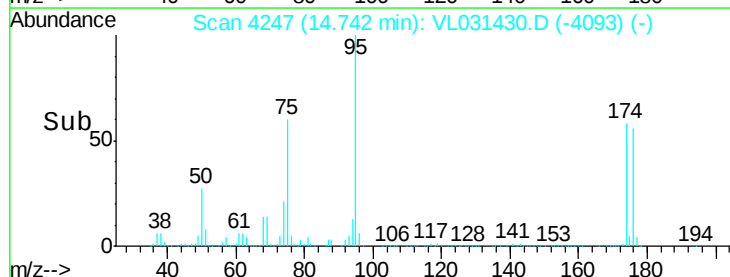
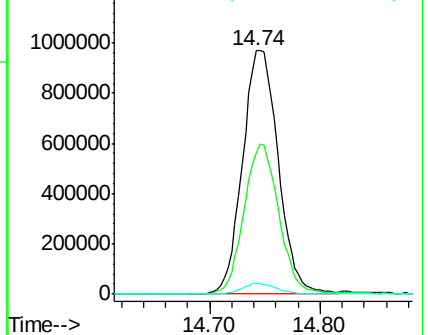
175 4.4 3.6 5.4

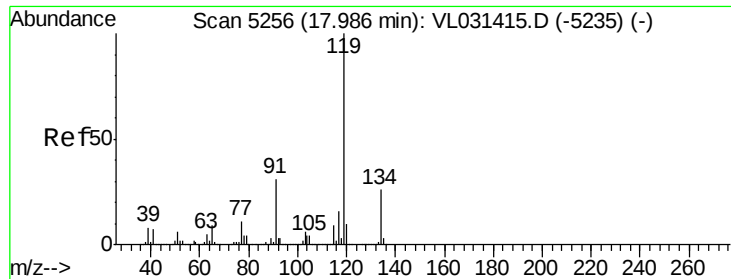


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





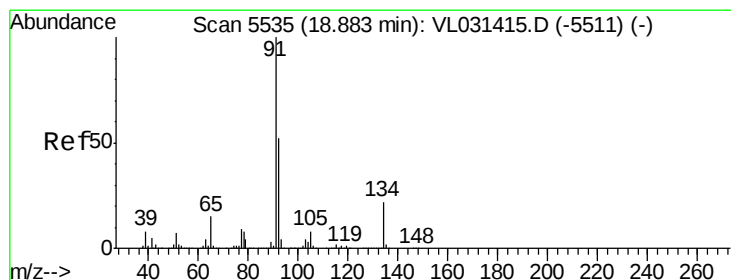
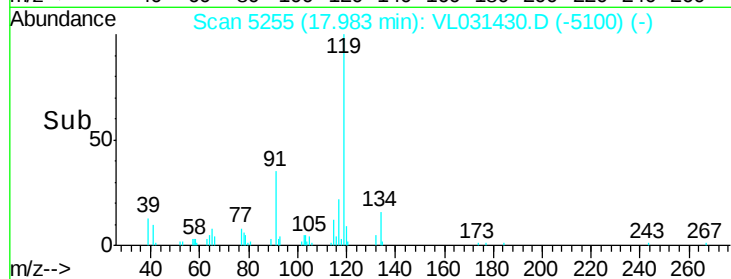
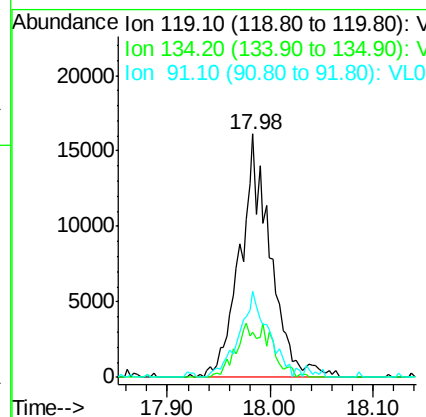
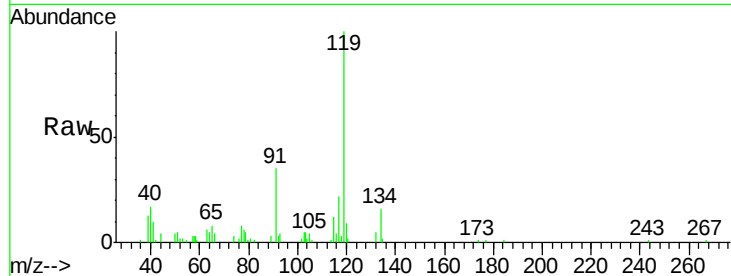
#69
 p-Isopropyltoluene
 Concen: 0.08 ppbv m
 RT: 17.98 min Scan# 5256
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	33130		
134	25.0	20.2	30.4	
91	36.6	25.0	37.4	

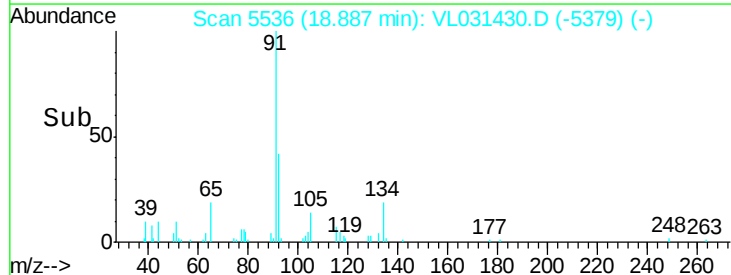
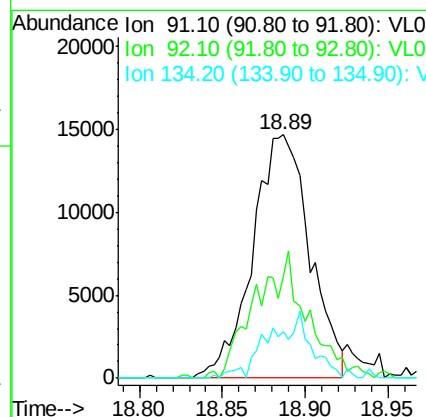
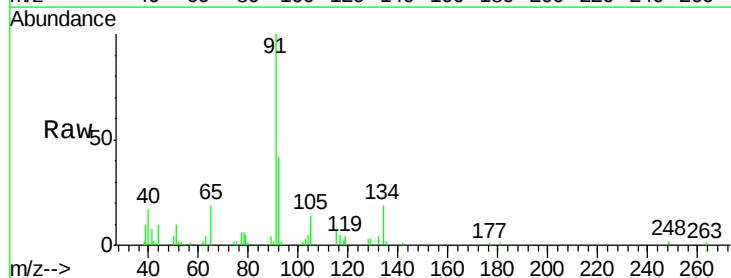
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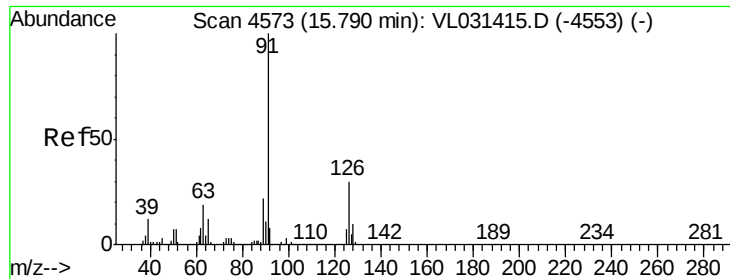
MMDadoda
 1/24/2018 5:10:28 PM



#70
 n-Butylbenzene
 Concen: 0.08 ppbv
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	35293		
92	48.4	42.2	63.4	
134	20.7	17.4	26.2	





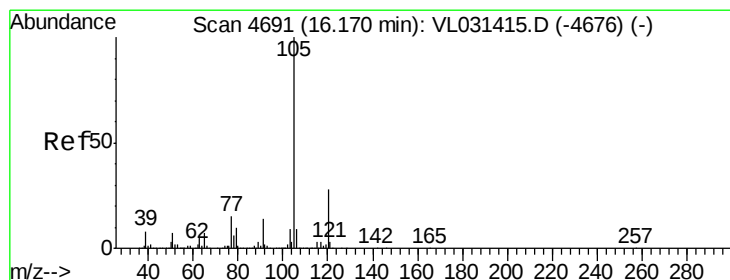
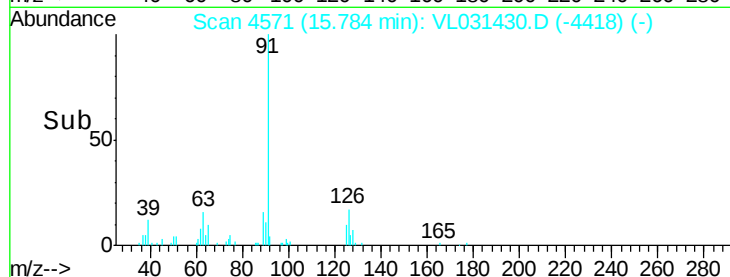
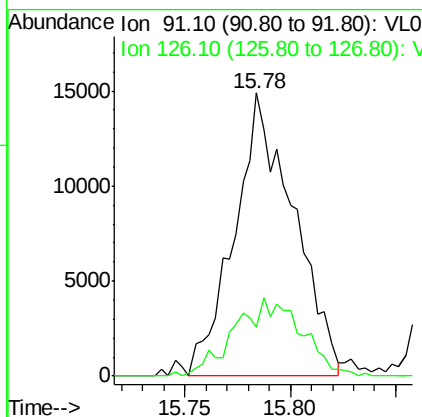
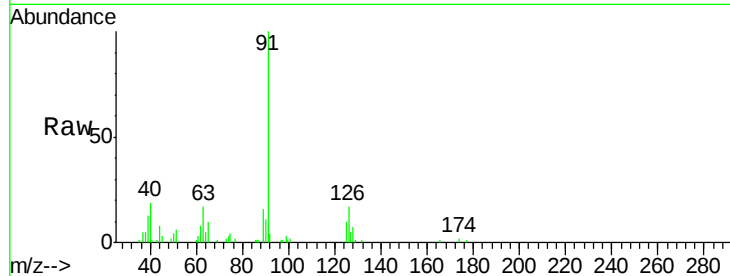
#71
 2-Chlorotoluene
 Concen: 0.09 ppbv
 RT: 15.78 min Scan# 4571
 Delta R.T. -0.01 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion: 91 Resp: 28924
 Ion Ratio Lower Upper
 91 100
 126 31.4 11.7 46.9

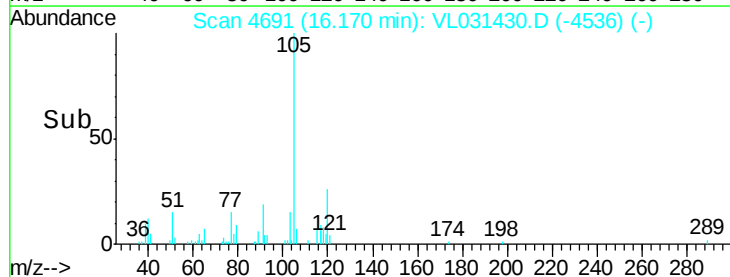
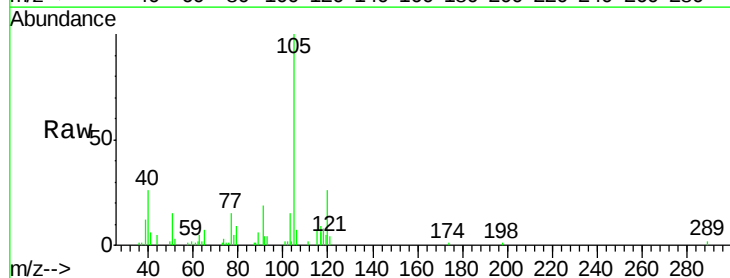
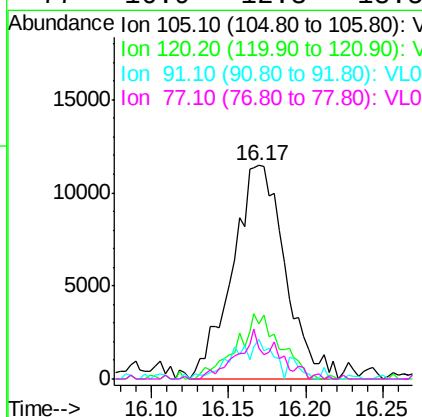
Manual Integrations
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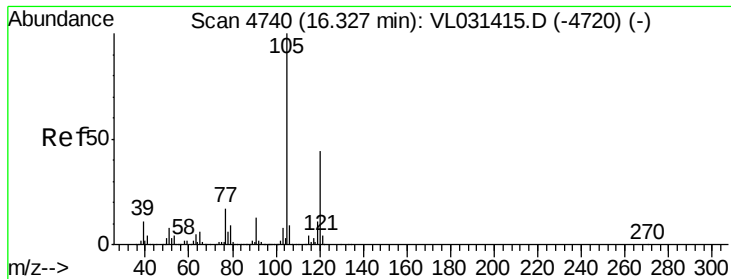
MMDadoda
 1/24/2018 5:10:28 PM



#72
 4-Ethyltoluene
 Concen: 0.08 ppbv m
 RT: 16.17 min Scan# 4691
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion: 105 Resp: 27325
 Ion Ratio Lower Upper
 105 100
 120 26.2 23.0 34.6
 91 17.2 11.0 16.4#
 77 16.9 12.3 18.5





#73

1,3,5-Trimethylbenzene

Concen: 0.08 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. 0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-5

Tot Ion:105 Resp: 24992

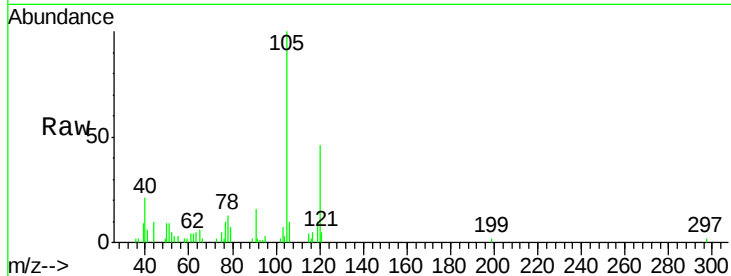
Ion Ratio Lower Upper

105 100

120 50.5 35.8 53.6

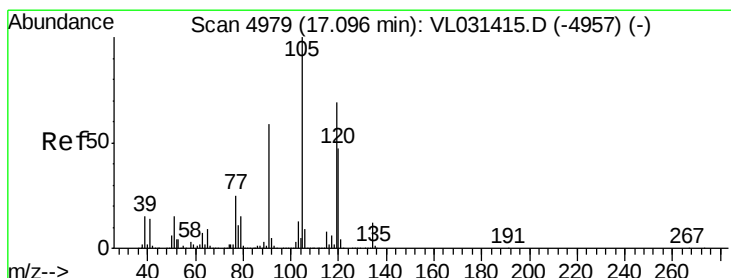
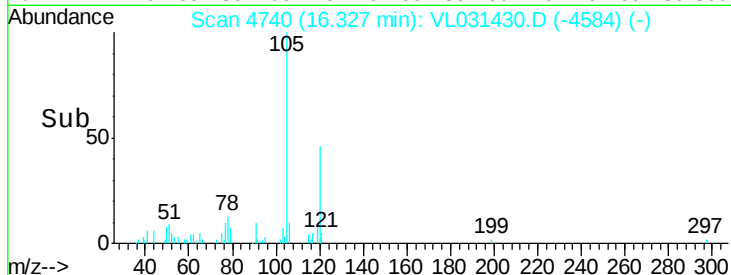
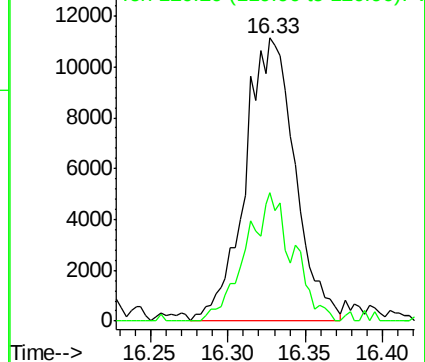
Manual Integrations
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1/24/2018 5:10:28 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.09 ppbv

RT: 17.10 min Scan# 4980

Delta R.T. -0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion:105 Resp: 29563

Ion Ratio Lower Upper

105 100

120 39.3 37.0 55.6

91 28.2 35.1 52.7#

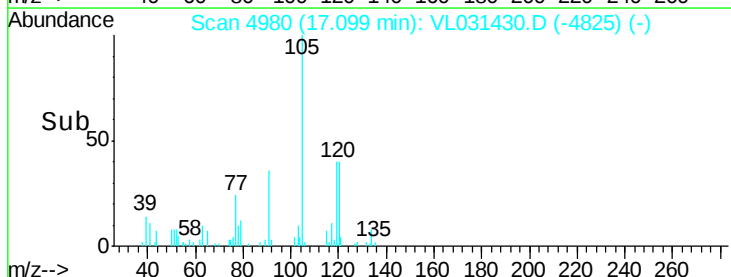
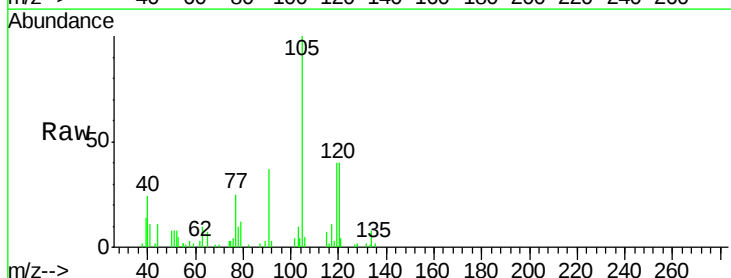
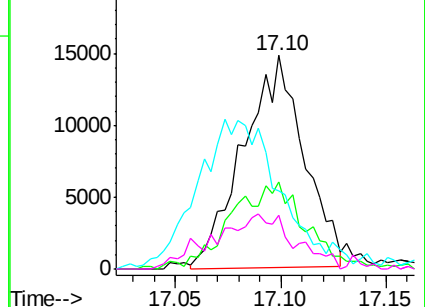
77 25.4 17.9 26.9

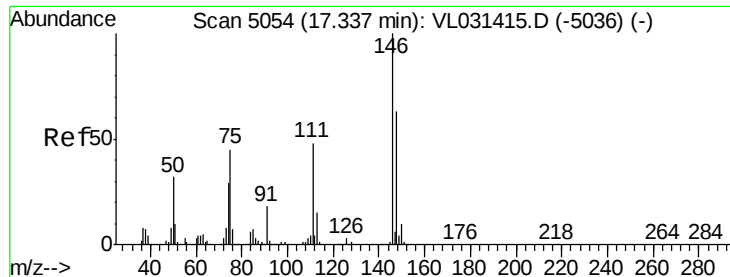
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.14 ppbv m

RT: 17.34 min Scan# 5054

Delta R.T. -0.00 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Instrument :

MSVOA_L

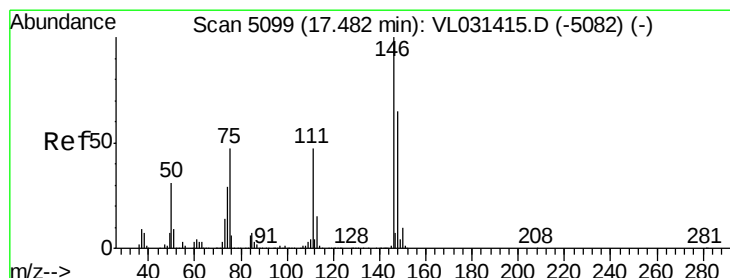
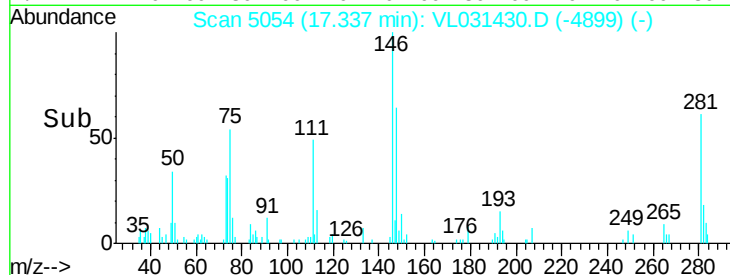
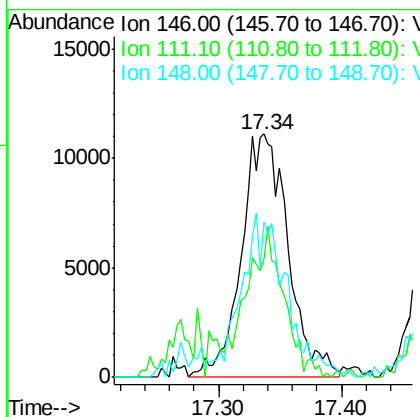
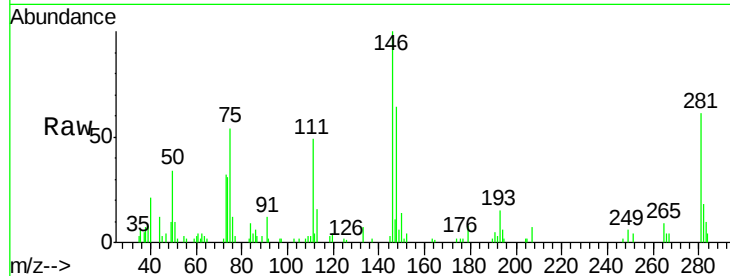
ClientSampleId :

MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.2	72.6#
148	71.5	32.1	96.3

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#76

1,4-Dichlorobenzene

Concen: 0.11 ppbv m

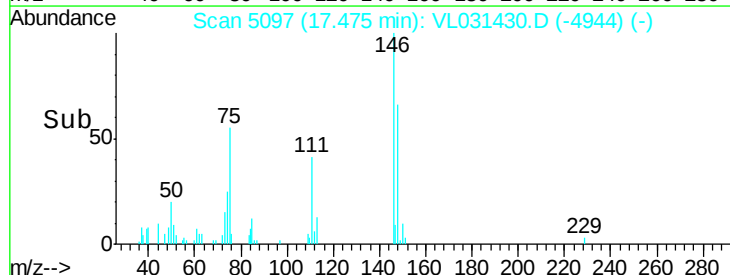
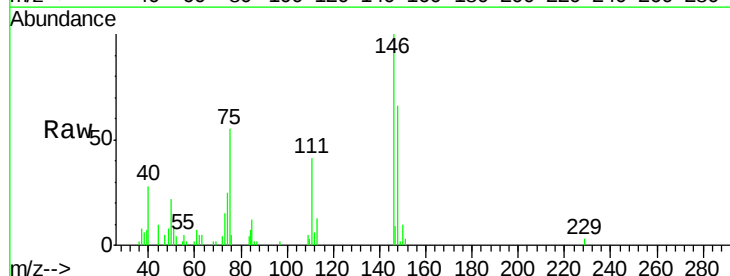
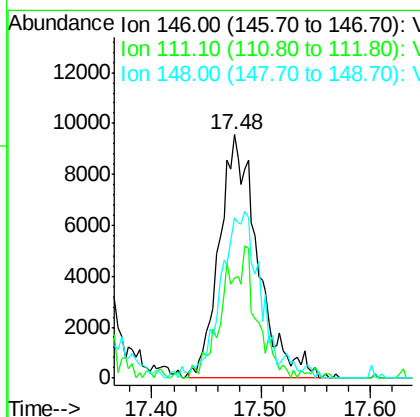
RT: 17.48 min Scan# 5097

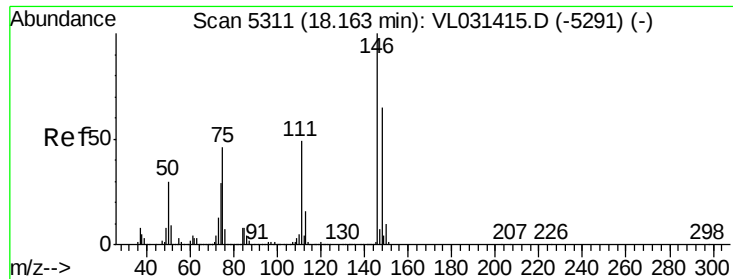
Delta R.T. -0.01 min

Lab File: VL031430.D

Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.3	69.9#
148	0.0	32.4	97.2#





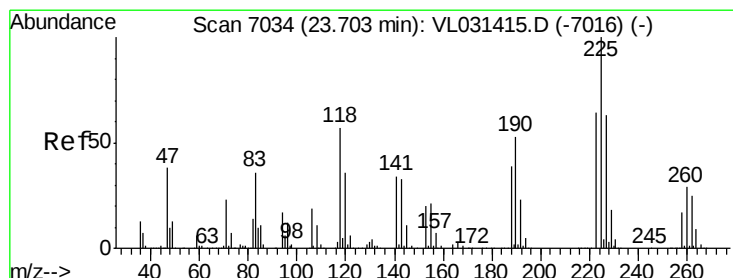
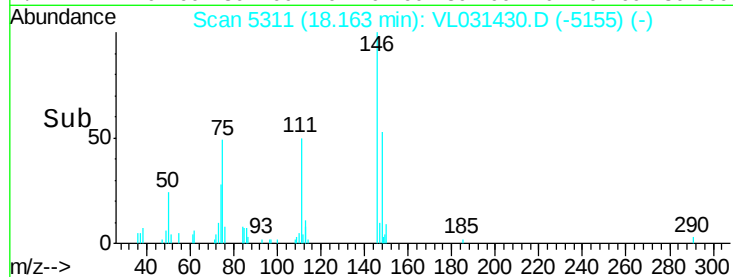
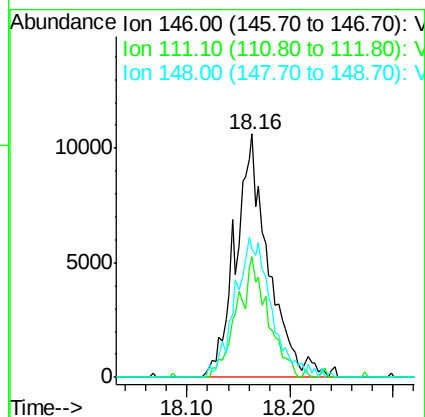
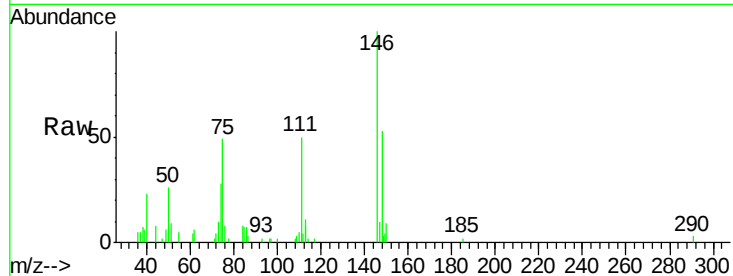
#77
 1,2-Dichlorobenzene
 Concen: 0.12 ppbv m
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.6	74.0
148	63.0	32.3	96.8

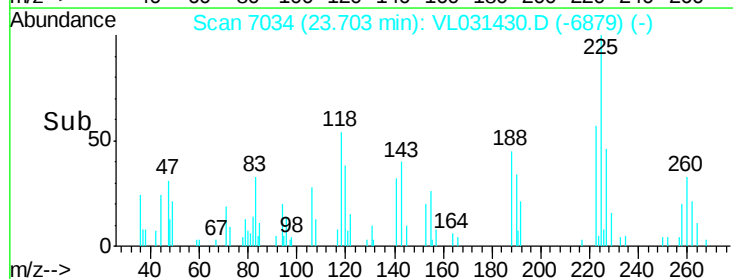
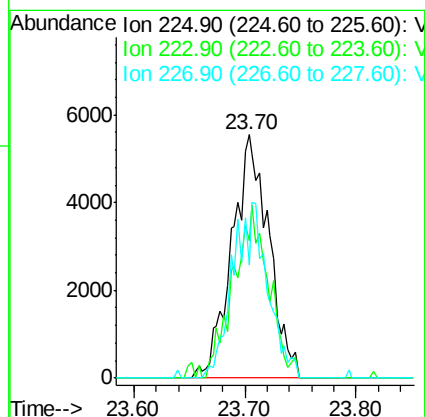
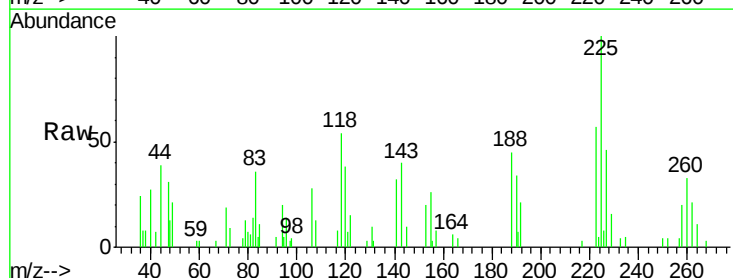
Manual Integrations
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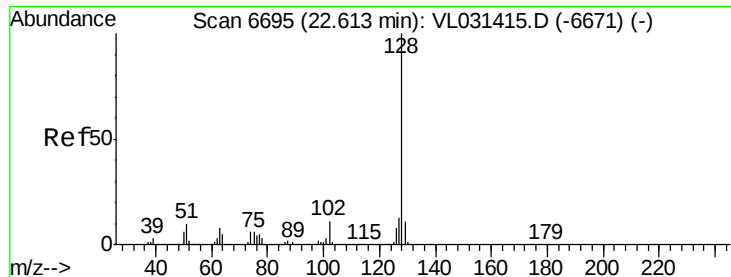
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.18 ppbv m
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.3	76.9#
227	0.0	50.7	76.1#





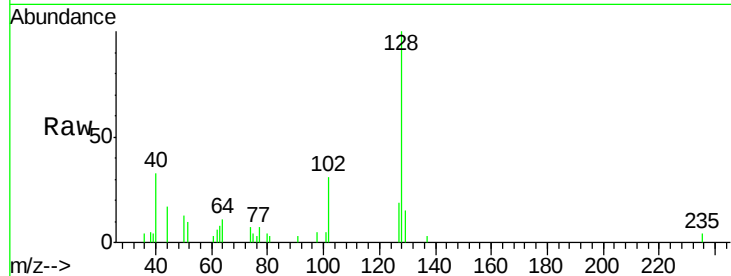
#79
Naphthalene
Concen: 0.07 ppbv m
RT: 22.62 min Scan# 6696
Delta R.T. 0.00 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-5

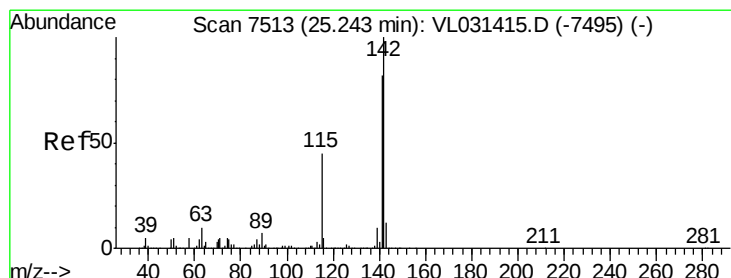
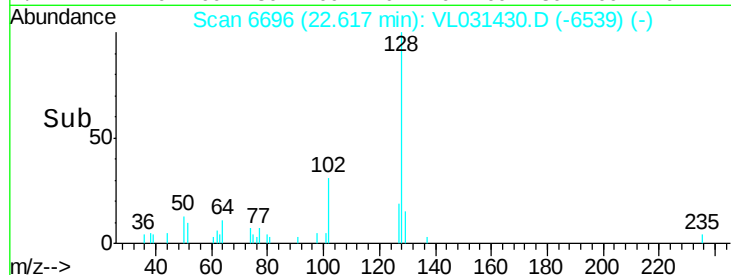
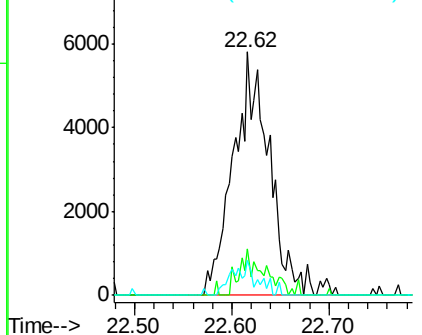
Tot Ion	Ratio	Lower	Upper
128	100		
127	19.3	10.6	16.0#
129	14.5	9.2	13.8#

Manual Integrations
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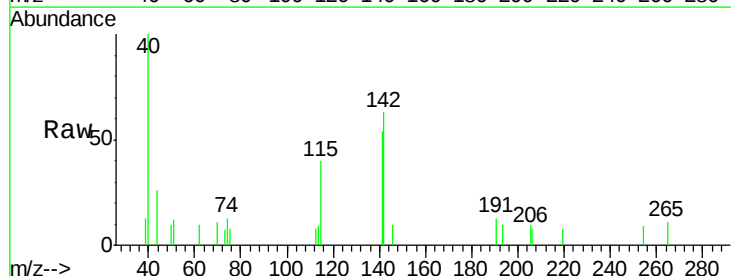


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

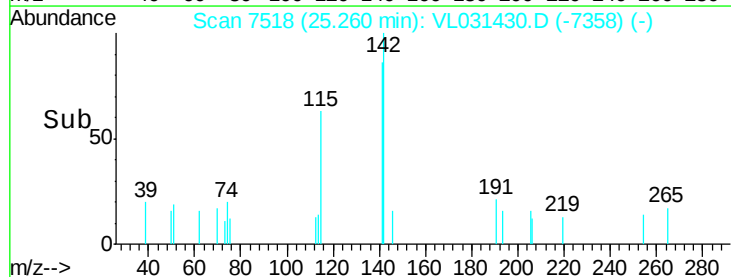
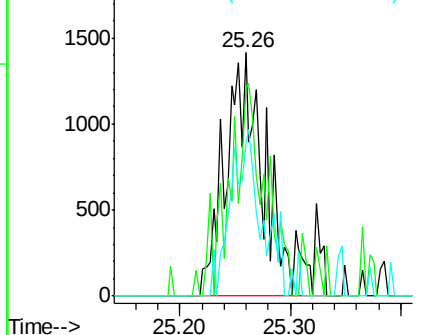


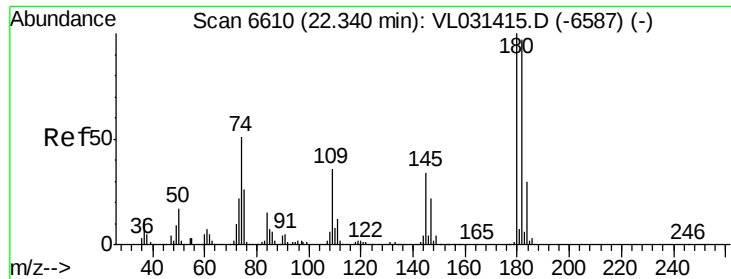
#80
Naphthalene, 2-methyl-
Concen: 0.06 ppbv
RT: 25.26 min Scan# 7518
Delta R.T. 0.01 min
Lab File: VL031430.D
Acq: 23 Jan 2018 00:15

Tgt Ion	Ratio	Lower	Upper
142	100		
141	74.2	68.7	103.1
115	51.8	36.3	54.5



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: 0.10 ppbv m
 RT: 22.34 min Scan# 6609
 Delta R.T. -0.00 min
 Lab File: VL031430.D
 Acq: 23 Jan 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.4#
184	0.0	24.2	36.4#

Manual Integrations
 APPROVED

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