

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033089.D
 Acq On : 16 Jan 2019 11:49
 Operator : SY/AP
 Sample : VL0116ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:15:58 PM

Quant Time: Jan 17 02:55:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1133811	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2871681	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2847945m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2103598	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2273202	10.773 ppbv	99
3) Chlorodifluoromethane	3.01	51	1239959	9.661 ppbv	98
4) Chloromethane	3.17	50	671710	9.138 ppbv	97
5) Vinyl Chloride	3.29	62	682392	9.192 ppbv	100
6) Bromomethane	3.52	94	450593	8.934 ppbv	99
7) Chloroethane	3.60	64	264067	9.096 ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1789949	9.848 ppbv	99
9) Propene	3.04	41	485176	10.119 ppbv	100
10) Heptane	8.25	43	1351817	9.903 ppbv	100
11) Trichlorofluoromethane	4.01	101	1970736	8.452 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1333696	9.046 ppbv	99
13) Ethanol	3.65	45	144363	7.550 ppbv	100
14) Bromoethene	3.79	108	585080	8.985 ppbv	100
15) Acetone	3.90	43	1252204	7.979 ppbv	100
16) 1,3-Butadiene	3.36	39	570793	9.645 ppbv	100
17) tert-Butyl alcohol	4.36	59	291426	8.766 ppbv	99
18) 1,1-Dichloroethene	4.35	96	607872	8.951 ppbv	96
19) Isopropyl Alcohol	4.02	45	869203	8.046 ppbv	100
20) Methylene Chloride	4.41	84	523816	8.007 ppbv	96
21) Allyl Chloride	4.48	41	945824	9.726 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	609161	9.049 ppbv	97
23) Vinyl Acetate	5.16	43	2002792	10.032 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1502094	8.861 ppbv	99
25) Ethyl Acetate	5.77	43	2385875	8.994 ppbv	100
26) Hexane	5.78	57	1117131	8.944 ppbv	100
27) Carbon Disulfide	4.62	76	1538702	9.989 ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1860081	9.541 ppbv	100
29) Chloroform	5.85	83	1879119	8.828 ppbv	98
30) Cyclohexane	7.25	84	966202	10.374 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1161709	10.016 ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	2006453	9.288 ppbv	99
34) 2-Butanone	5.33	43	1509564	9.047 ppbv	99
35) Carbon Tetrachloride	7.14	117	2178268	8.831 ppbv	98
36) Benzene	7.01	78	2183610	9.283 ppbv	98
37) 1,2-Dichloroethane	6.42	62	1479632	9.009 ppbv	99
38) Trichloroethene	7.96	130	950913	9.826 ppbv	99
39) 1,2-Dichloropropane	7.74	63	810096	9.167 ppbv	97
40) 1,4-Dioxane	7.96	88	302703	9.024 ppbv	# 1
41) Tetrahydrofuran	6.15	42	831583	9.792 ppbv	99
42) Bromodichloromethane	7.92	83	2021277	8.959 ppbv	98
43) Methyl Methacrylate	8.14	69	894571	10.135 ppbv	98

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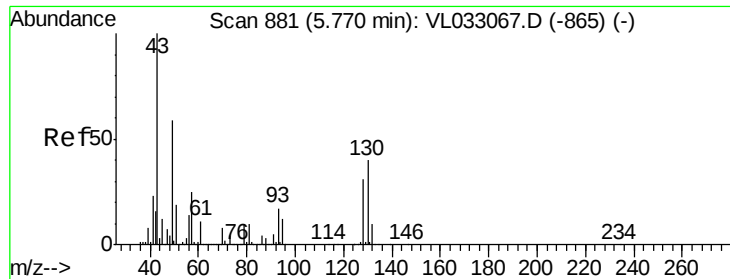
Manual Integrations
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MMDadoda
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Quant Time: Jan 17 02:55:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3747457	9.407	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1246102	11.341	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1410553	11.248	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	967073	9.367	ppbv	97
48) Dibromochloromethane	10.45	129	1840755	10.091	ppbv	99
49) Bromoform	13.20	173	1588876	9.969	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2148358	10.161	ppbv	99
51) 2-Hexanone	10.27	43	1673179	10.937	ppbv	99
52) Tetrachloroethene	11.38	164	857683	10.315	ppbv	97
53) Toluene	9.95	91	2681858	10.638	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1541811	10.365	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1316628	8.947	ppbv	99
57) Chlorobenzene	12.31	112	2123078	8.931	ppbv	97
58) Ethyl Benzene	12.87	91	3691410	10.266	ppbv	99
59) m/p-Xylene	13.16	91	6264835m	18.834	ppbv	
60) o-Xylene	13.85	91	3064963	9.412	ppbv	100
61) Styrene	13.69	104	2250847	10.833	ppbv	100
62) Isopropylbenzene	14.83	105	4305333	9.290	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2105336	8.703	ppbv	99
64) n-propylbenzene	15.73	120	1106634	9.400	ppbv	98
65) tert-Butylbenzene	16.91	119	3810278	9.282	ppbv	100
66) Benzyl Chloride	17.16	91	2345984	10.027	ppbv	99
67) sec-Butylbenzene	17.46	105	5326522	9.067	ppbv	100
69) p-Isopropyltoluene	17.82	119	4406712	9.242	ppbv	100
70) n-Butylbenzene	18.72	91	4390911	9.161	ppbv	100
71) 2-Chlorotoluene	15.62	91	3181636	9.681	ppbv	99
72) 4-Ethyltoluene	16.00	105	3515557	9.824	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3341387	9.463	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3484927	8.912	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1926726	8.370	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1868557	8.911	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1823433	8.796	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1123622	7.057	ppbv	99
79) Naphthalene	22.42	128	3276600	9.948	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1162008	11.625	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1545345	9.711	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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ClientSampleId :

VL0116ABS01

Tot Ion: 49 Resp: 1133811

Ion Ratio Lower Upper

49 100

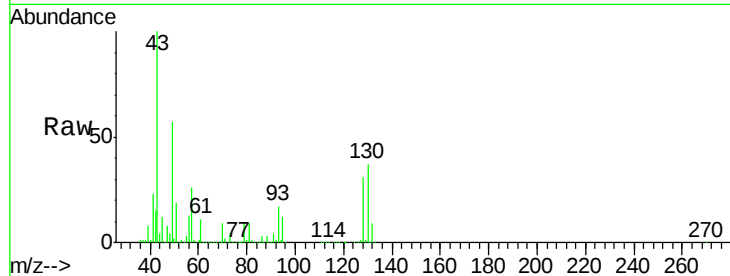
128 52.1 26.2 78.5

130 66.8 33.6 100.6

Manual Integrations
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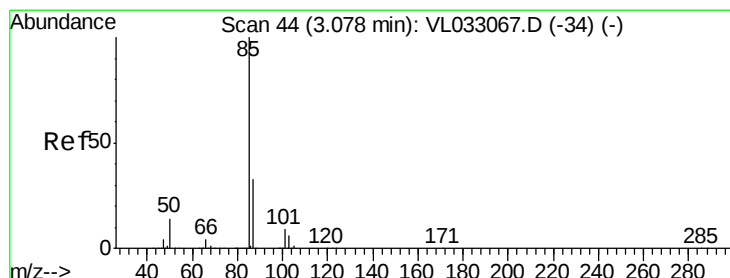
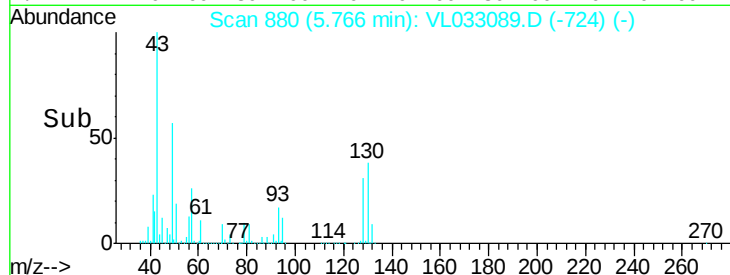
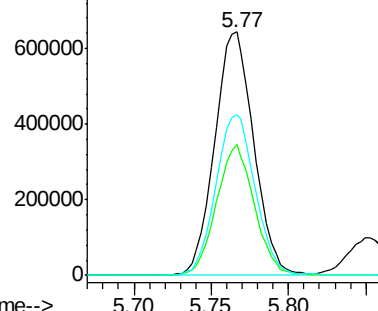
1/17/2019 3:15:58 PM



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: 10.773 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033089.D

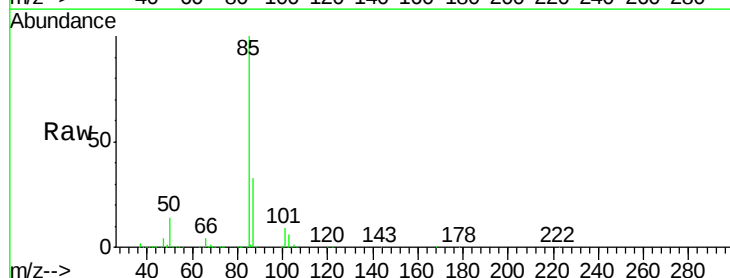
Acq: 16 Jan 2019 11:49

Tgt Ion: 85 Resp: 2273202

Ion Ratio Lower Upper

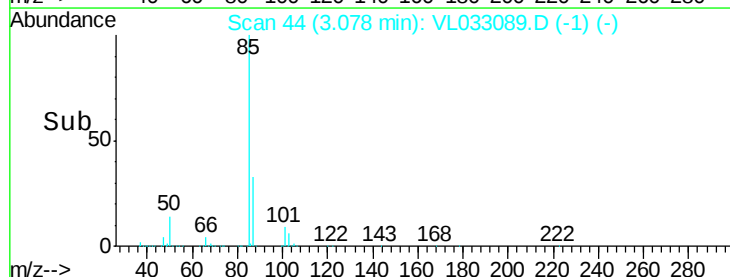
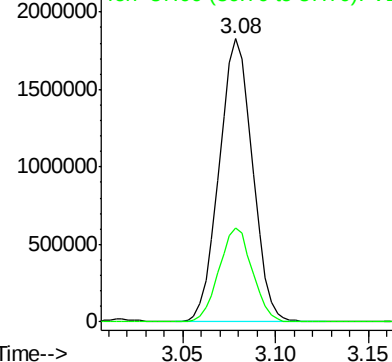
85 100

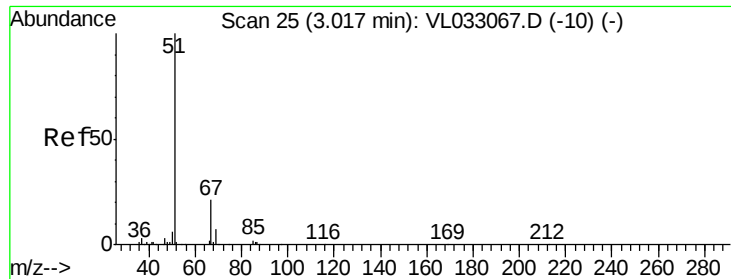
87 33.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.661 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Tot Ion: 51 Resp: 1239959

Ion Ratio Lower Upper

51 100

67 21.3 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

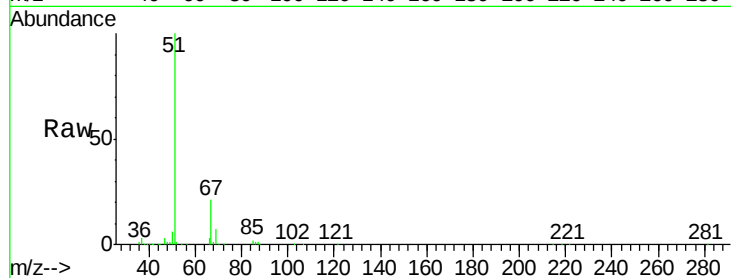
VL0116ABS01

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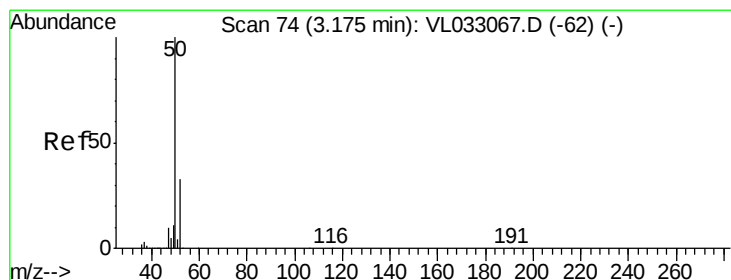
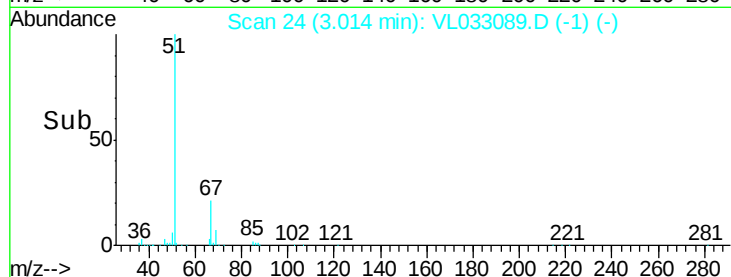
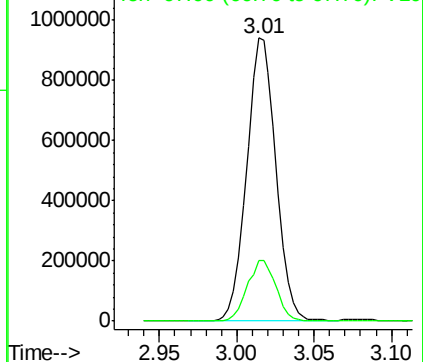
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.138 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033089.D

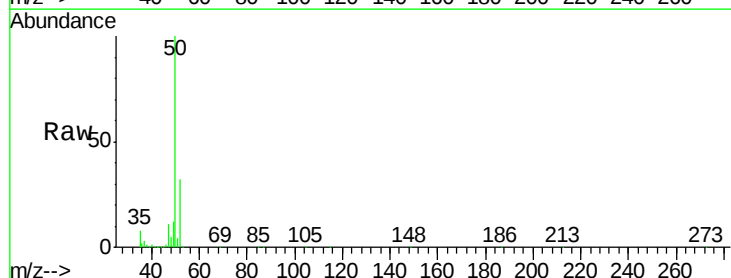
Acq: 16 Jan 2019 11:49

Tgt Ion: 50 Resp: 671710

Ion Ratio Lower Upper

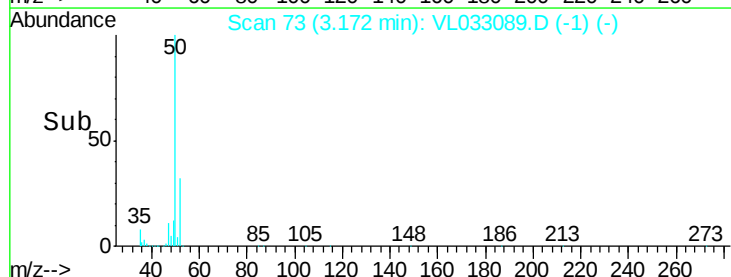
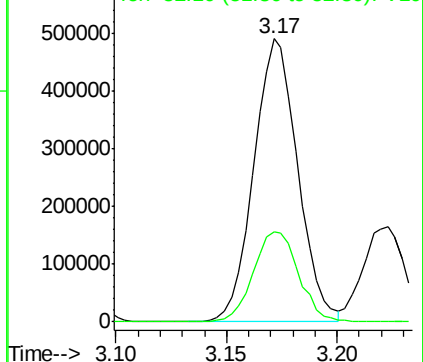
50 100

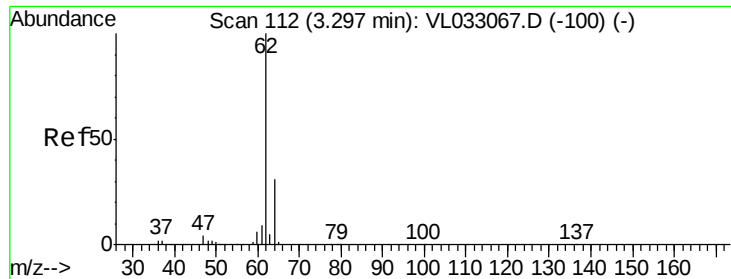
52 31.7 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.192 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 62 Resp: 682392

Ion Ratio Lower Upper

62 100

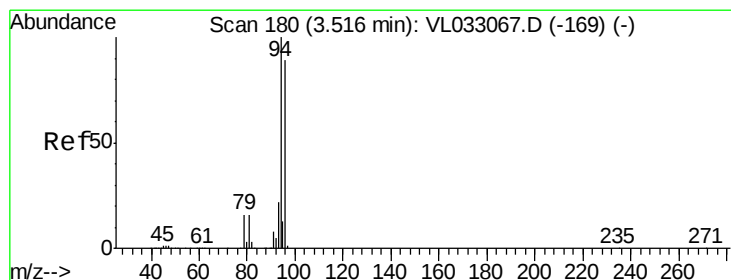
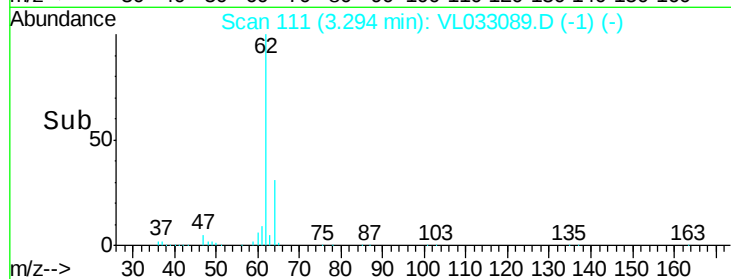
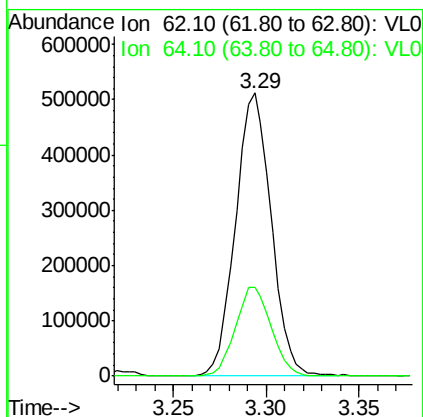
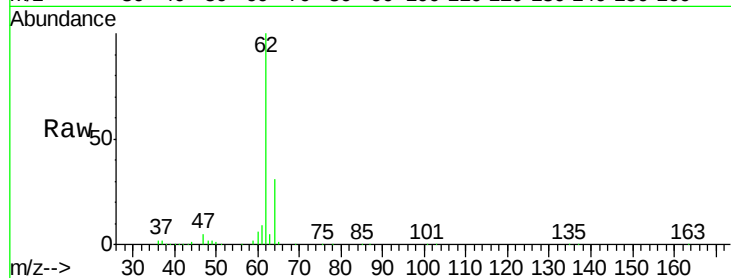
64 31.4 25.3 37.9

Manual Integrations

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#6

Bromomethane

Concen: 8.934 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033089.D

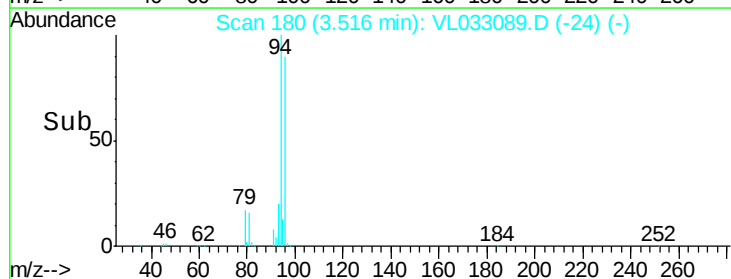
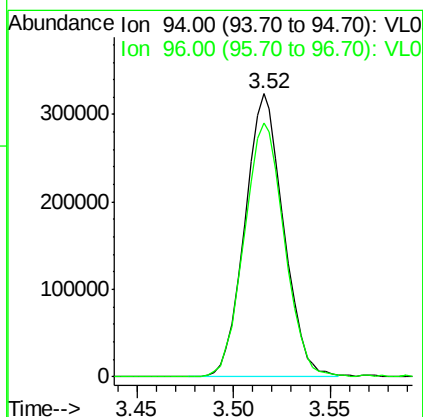
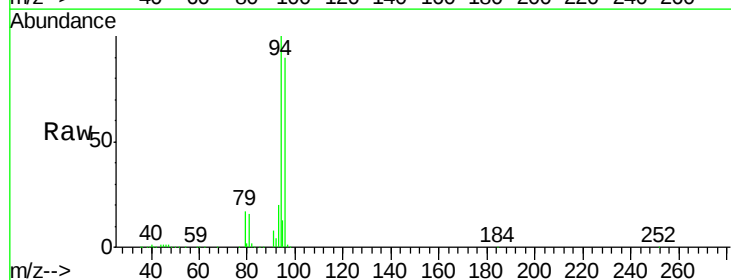
Acq: 16 Jan 2019 11:49

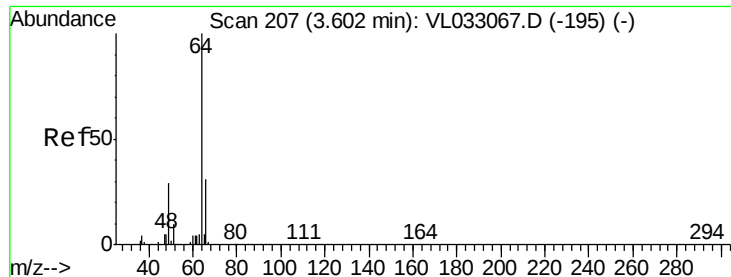
Tgt Ion: 94 Resp: 450593

Ion Ratio Lower Upper

94 100

96 89.9 72.8 109.2





#7

Chloroethane

Concen: 9.096 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 64 Resp: 264067

Ion Ratio Lower Upper

64 100

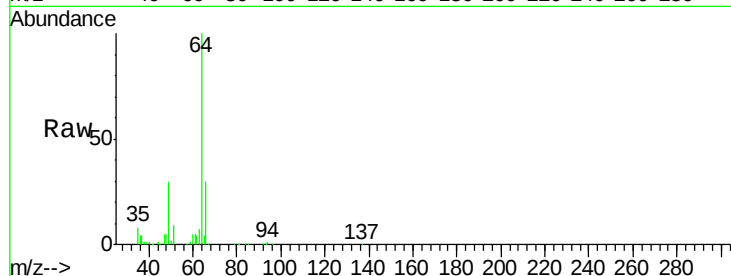
66 30.0 23.7 35.5

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

3.60

200000

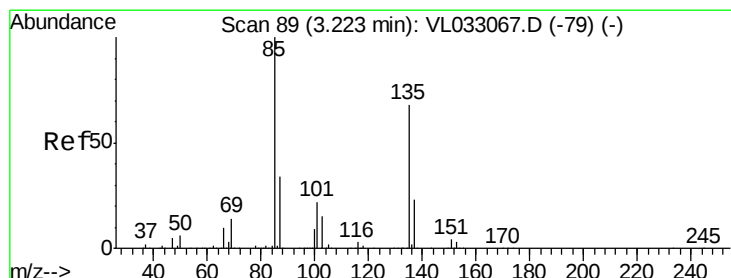
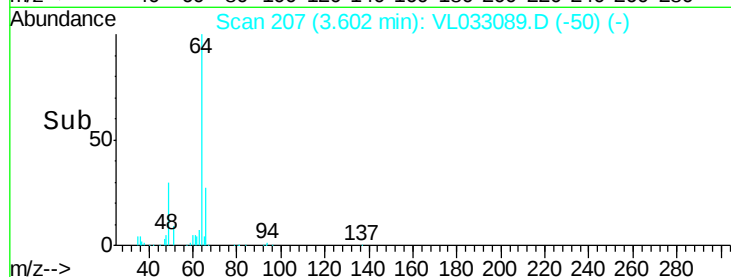
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.848 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033089.D

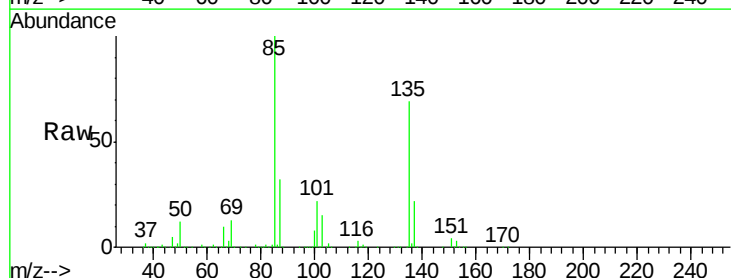
Acq: 16 Jan 2019 11:49

Tgt Ion: 85 Resp: 1789949

Ion Ratio Lower Upper

85 100

135 68.1 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

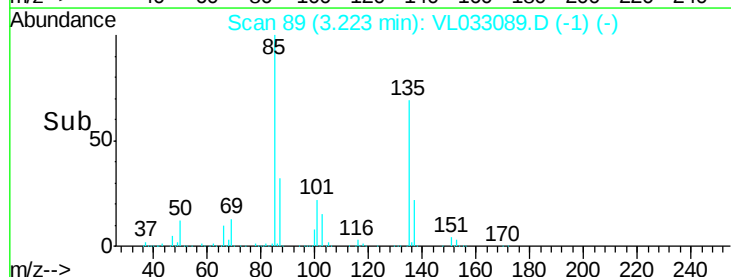
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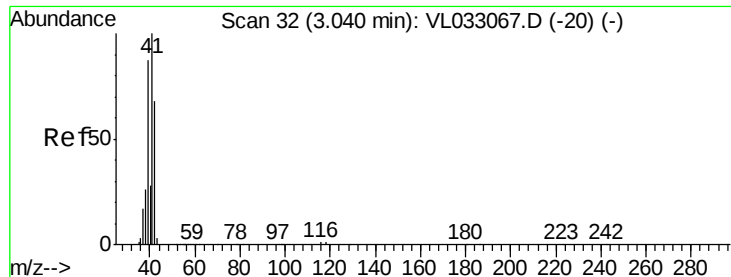
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500000

0

Time-->





#9

Propene

Concen: 10.119 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 41 Resp: 485176

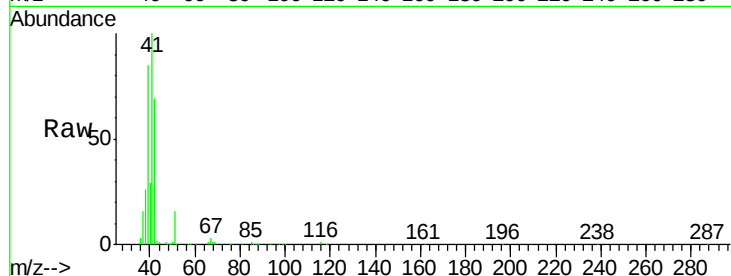
Ion Ratio Lower Upper

41 100

42 69.3 55.3 82.9

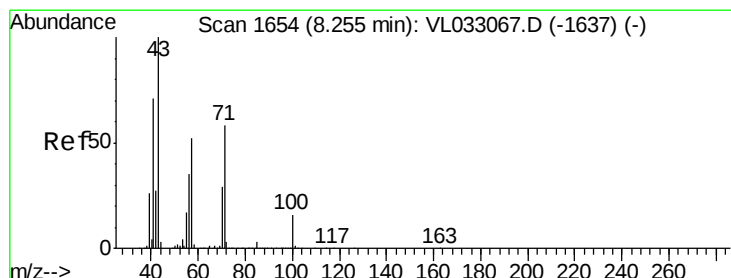
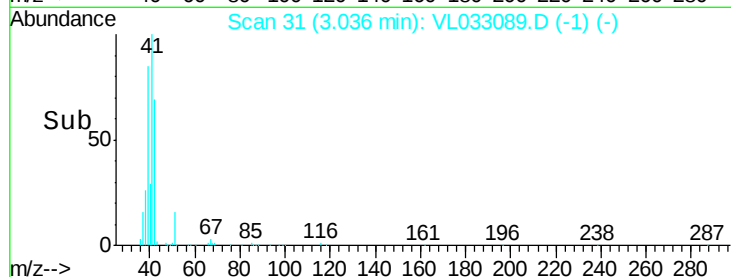
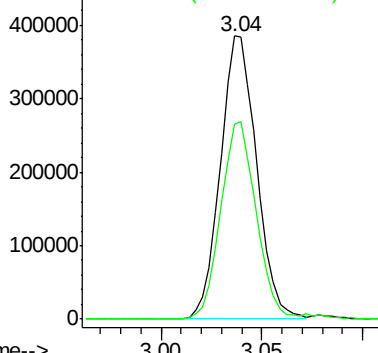
Manual Integrations
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.903 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033089.D

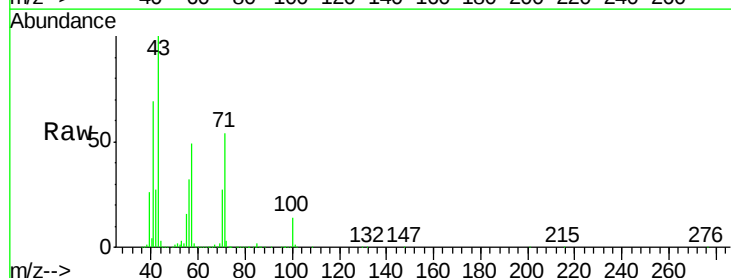
Acq: 16 Jan 2019 11:49

Tgt Ion: 43 Resp: 1351817

Ion Ratio Lower Upper

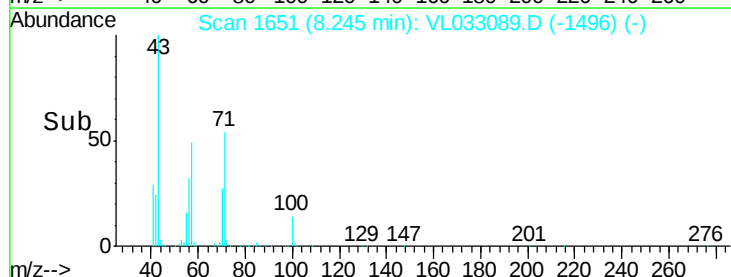
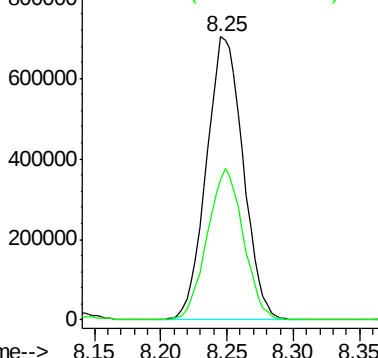
43 100

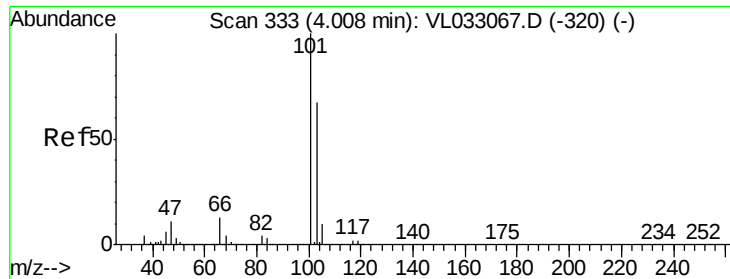
57 52.6 41.9 62.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





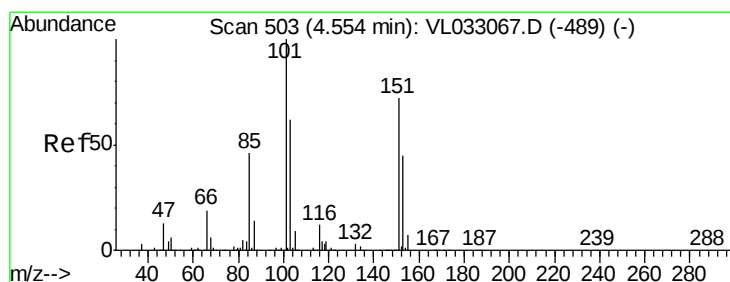
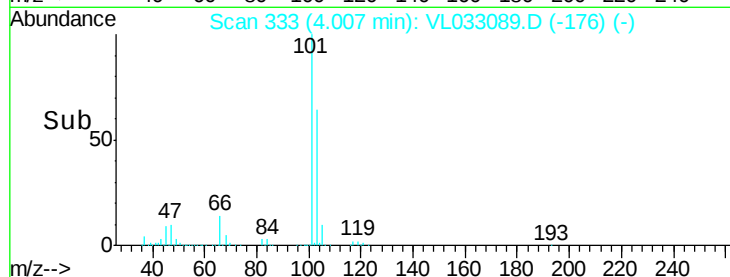
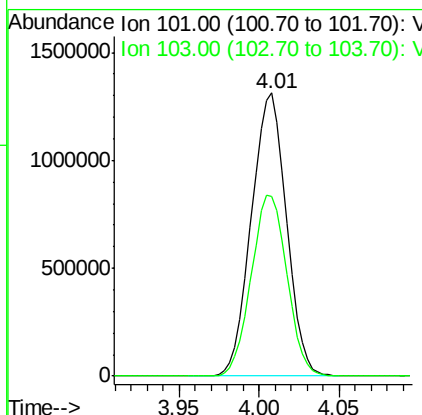
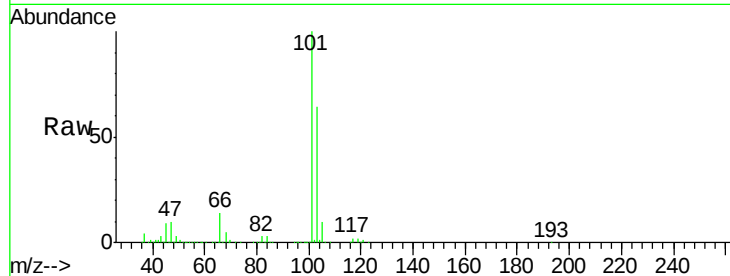
#11
 Trichlorofluoromethane
 Concen: 8.452 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion:101 Resp: 1970736
 Ion Ratio Lower Upper
 101 100
 103 63.6 51.7 77.5

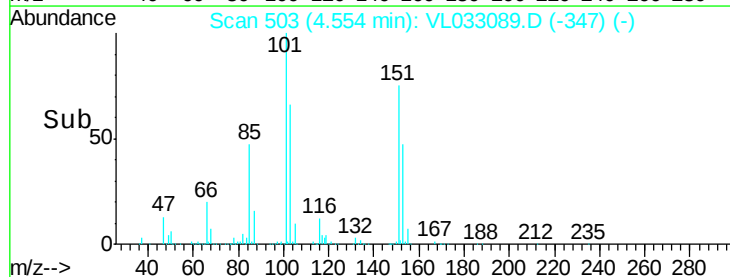
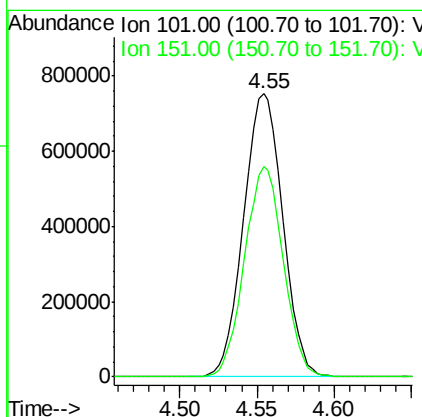
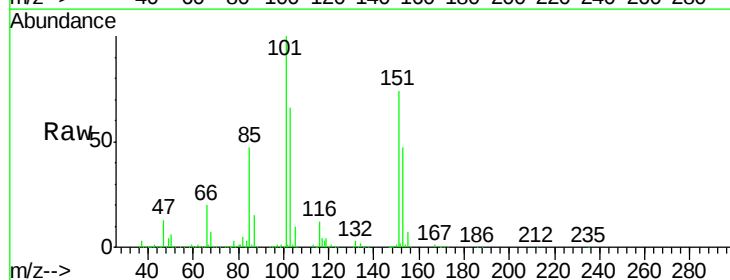
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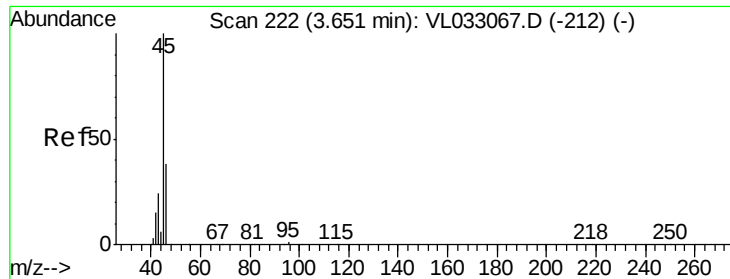
MMDadoda
 1/17/2019 3:15:58 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.046 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion:101 Resp: 1333696
 Ion Ratio Lower Upper
 101 100
 151 73.6 58.3 87.5





#13

Ethanol

Concen: 7.550 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 45 Resp: 144363

Ion Ratio Lower Upper

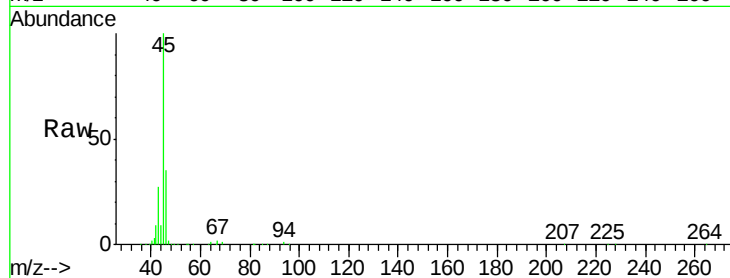
45 100

46 34.7 13.8 55.2

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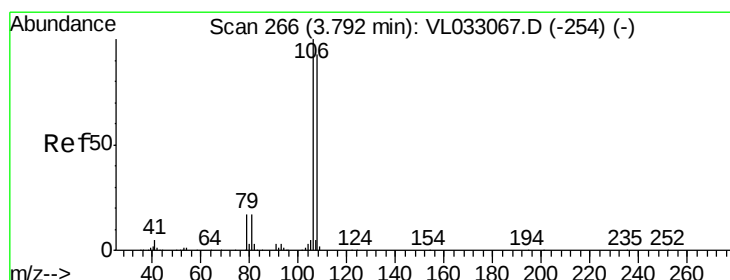
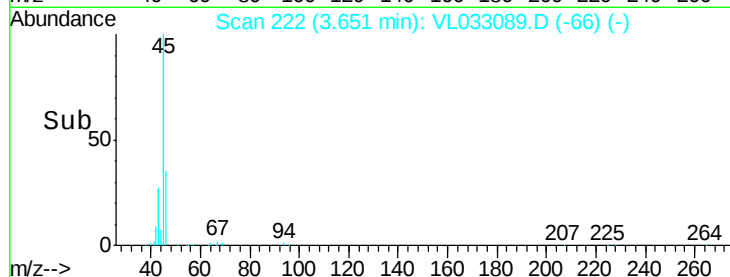
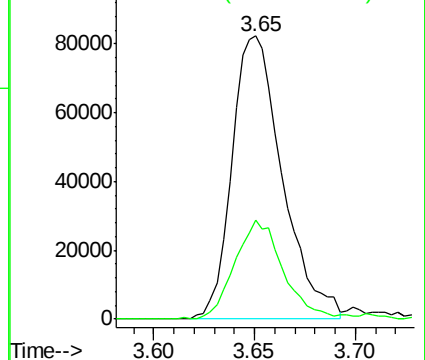
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 8.985 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

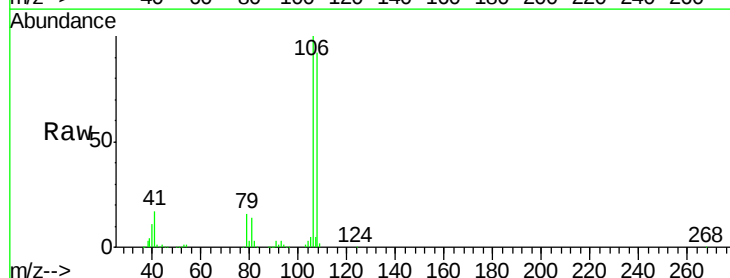
Tgt Ion: 108 Resp: 585080

Ion Ratio Lower Upper

108 100

106 107.8 86.4 129.6

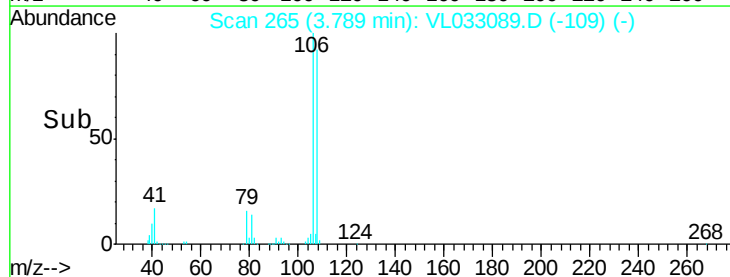
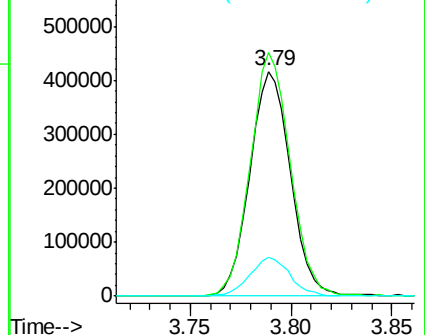
79 17.6 14.3 21.5

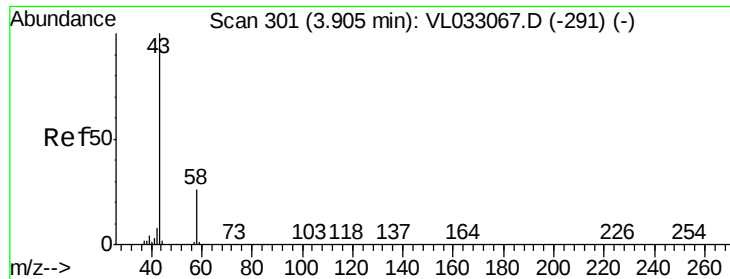


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 7.979 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 43 Resp: 1252204

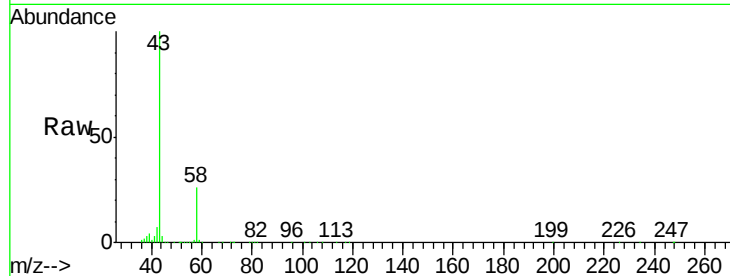
Ion Ratio Lower Upper

43 100

58 26.5 21.1 31.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

600000

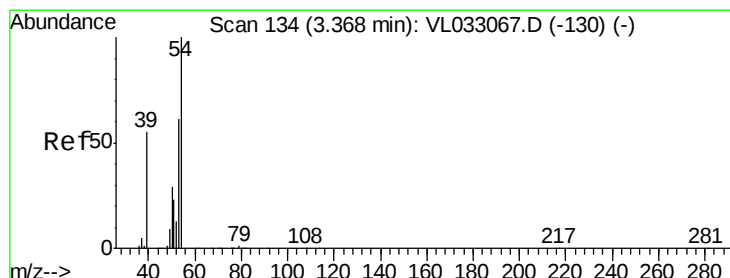
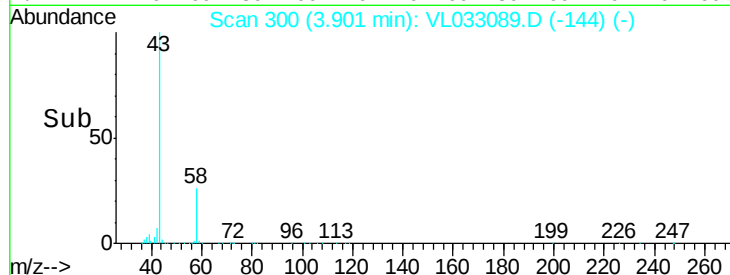
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 9.645 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033089.D

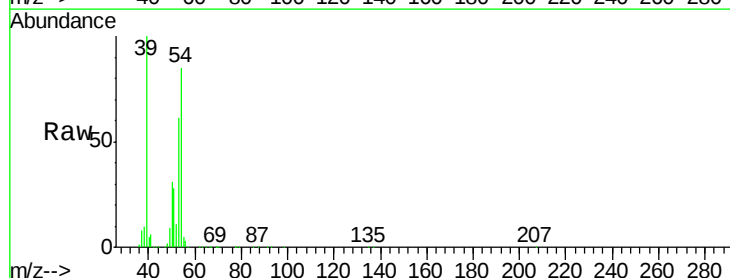
Acq: 16 Jan 2019 11:49

Tgt Ion: 39 Resp: 570793

Ion Ratio Lower Upper

39 100

54 91.8 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

300000

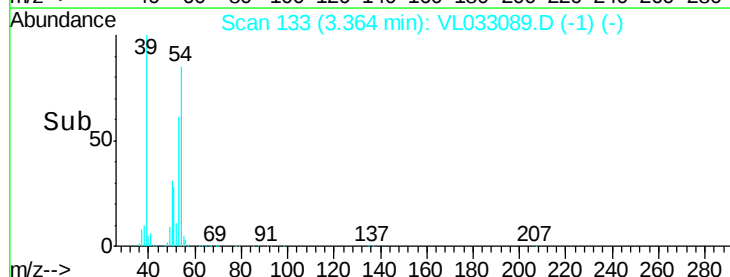
200000

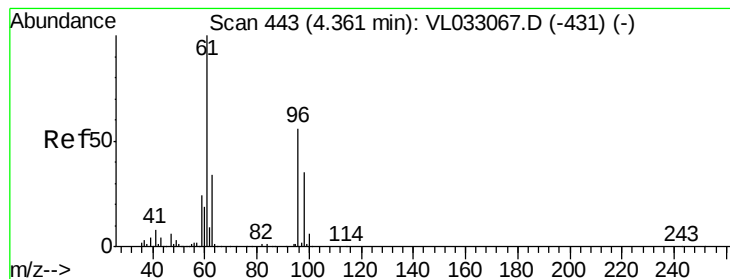
100000

0

3.34 3.36 3.38 3.40

Time-->





#17

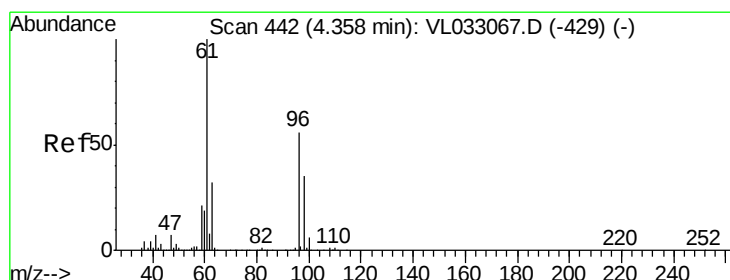
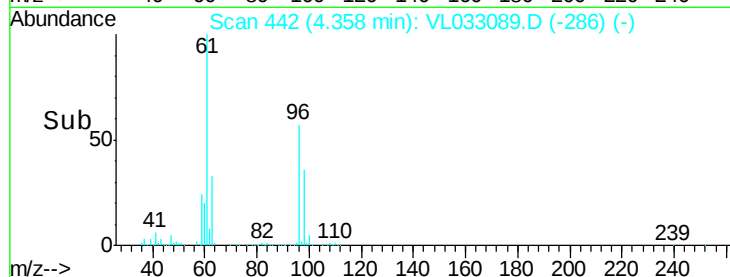
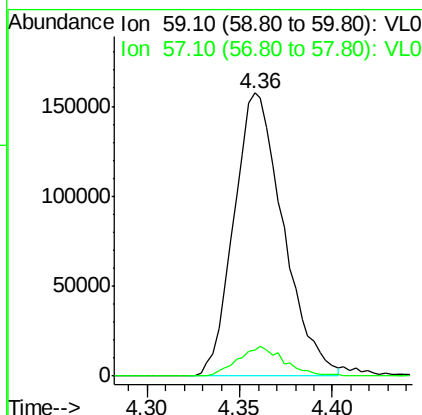
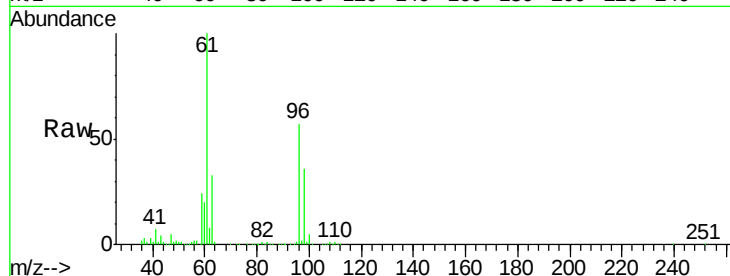
tert-Butyl alcohol
Concen: 8.766 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion: 59 Resp: 291426
Ion Ratio Lower Upper
59 100
57 10.1 7.7 11.5

Manual Integrations
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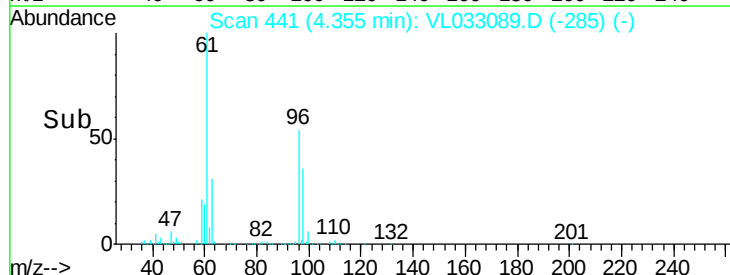
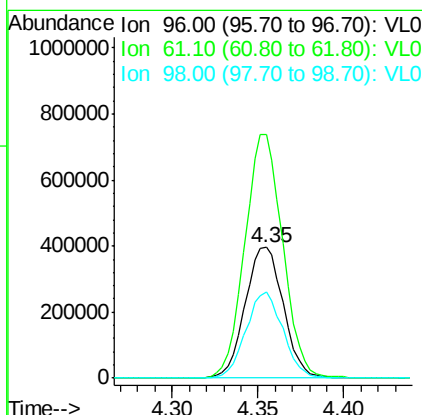
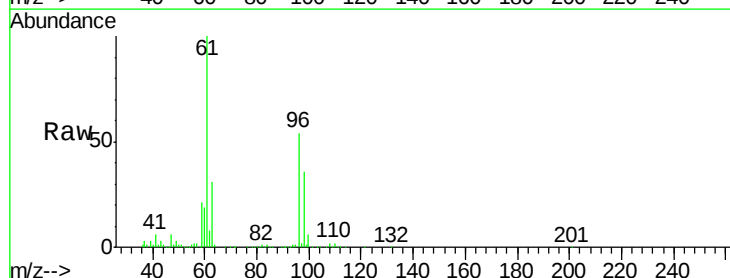
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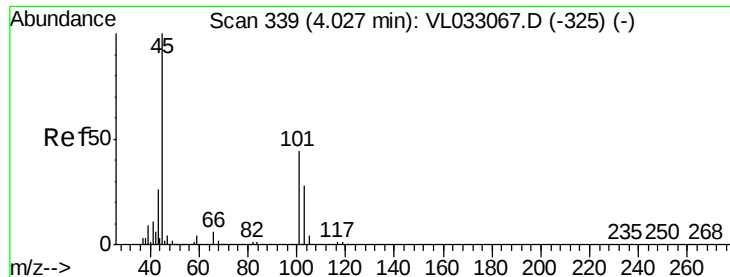


#18

1,1-Dichloroethene
Concen: 8.951 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion: 96 Resp: 607872
Ion Ratio Lower Upper
96 100
61 185.7 143.7 215.5
98 66.1 52.1 78.1





#19

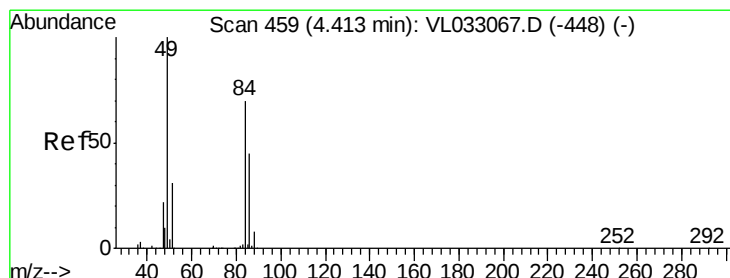
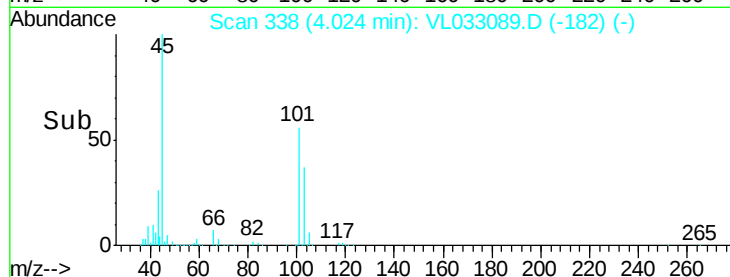
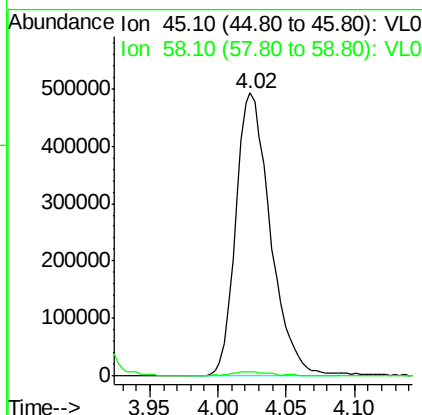
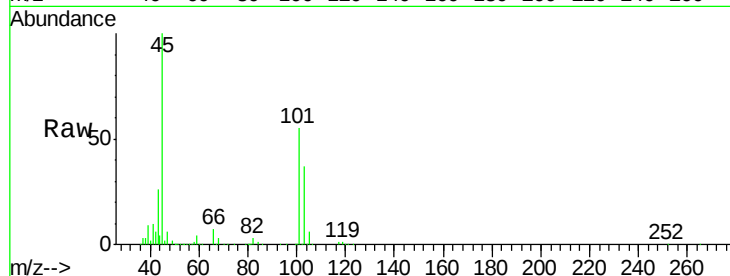
Isopropyl Alcohol
 Concen: 8.046 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.0	1.4	2.2

Manual Integrations
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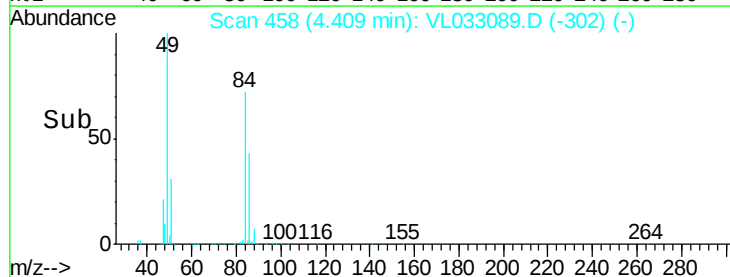
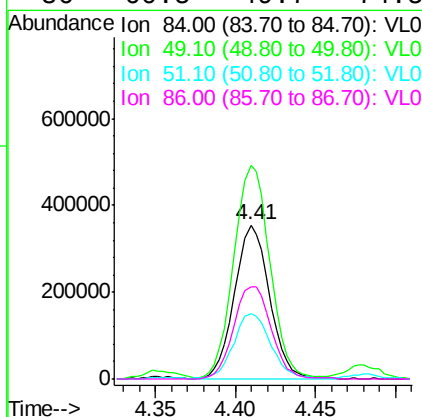
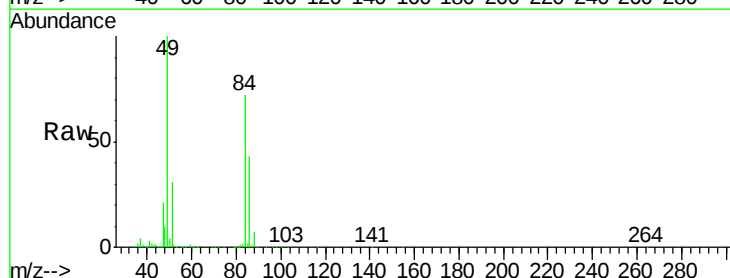
MMDadoda
 1/17/2019 3:15:58 PM

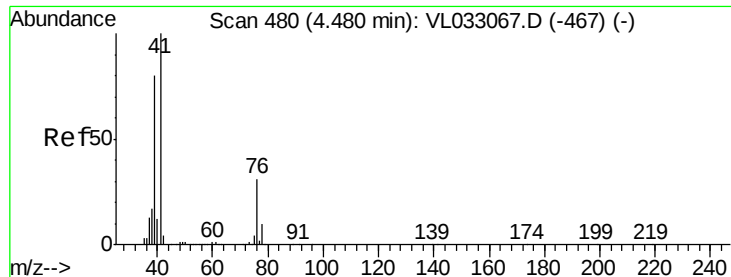


#20

Methylene Chloride
 Concen: 8.007 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.9	115.8	173.6
51	42.3	35.7	53.5
86	60.5	49.7	74.5





#21

Allvl Chloride

Concen: 9.726 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

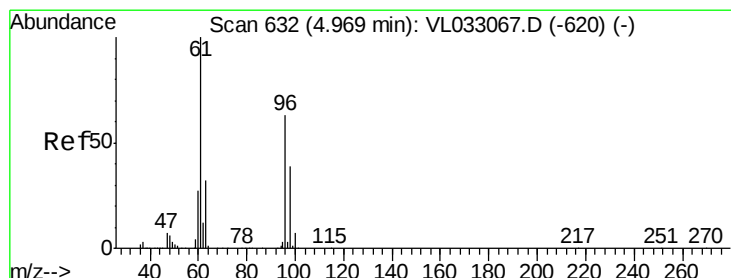
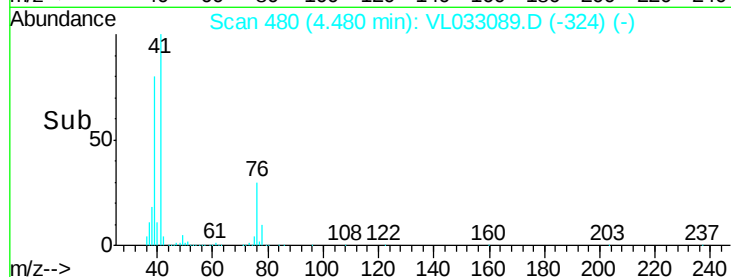
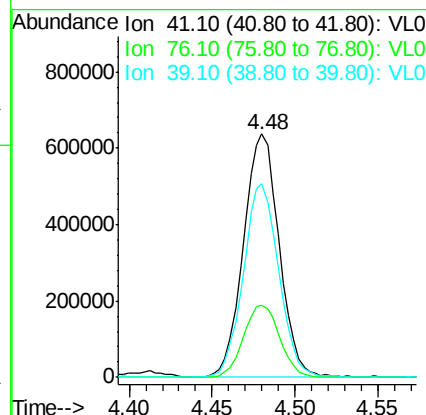
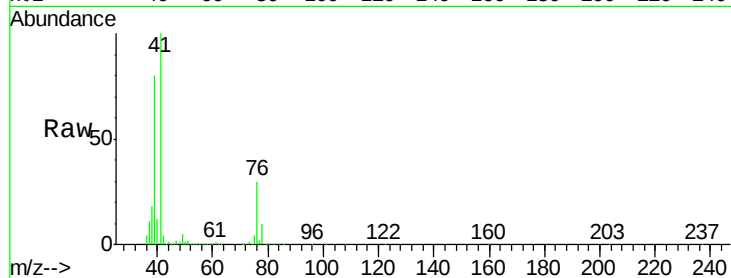
ClientSampleId :

VL0116ABS01

Tot Ion:	41	Resp:	945824
Ion Ratio	Lower	Upper	
41	100		
76	30.4	24.6	36.8
39	79.6	62.8	94.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.049 ppbv

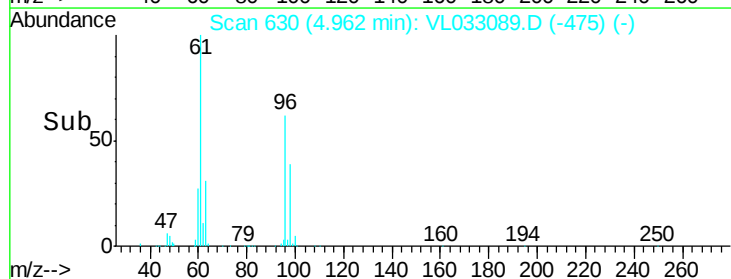
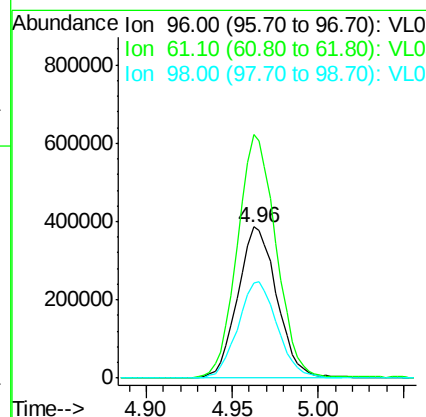
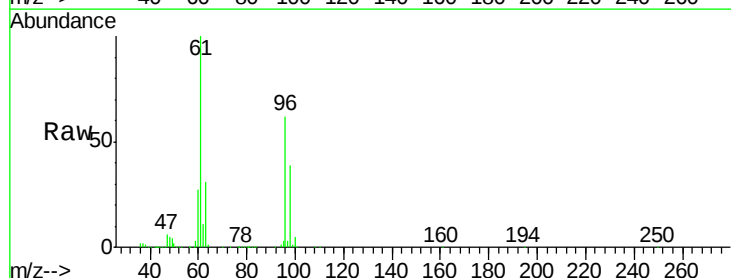
RT: 4.96 min Scan# 630

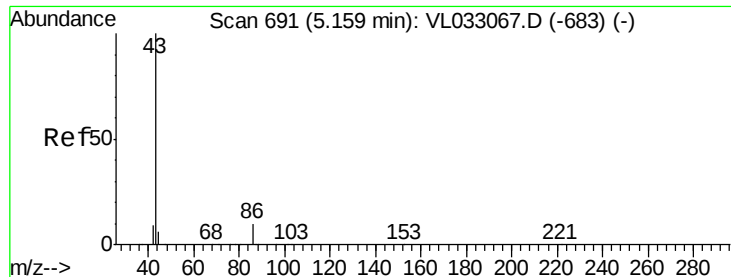
Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Tgt Ion:	96	Resp:	609161
Ion Ratio	Lower	Upper	
96	100		
61	161.0	125.2	187.8
98	62.5	50.9	76.3





#23

Vinyl Acetate

Concen: 10.032 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 43 Resp: 2002792

Ion Ratio Lower Upper

43 100

86 8.6 6.2 9.4

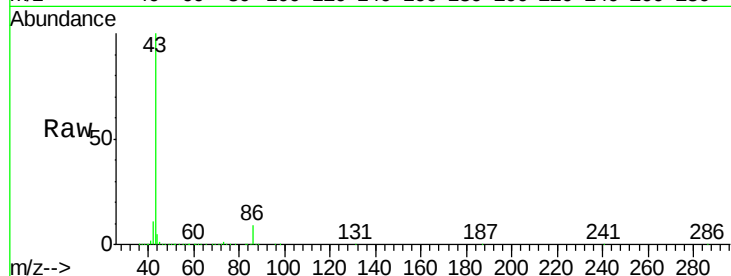
42 10.5 8.1 12.1

44 5.2 4.3 6.5

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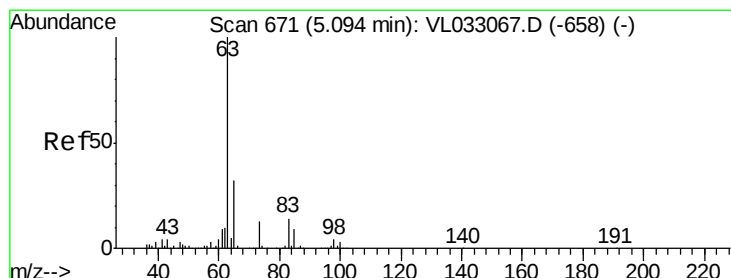
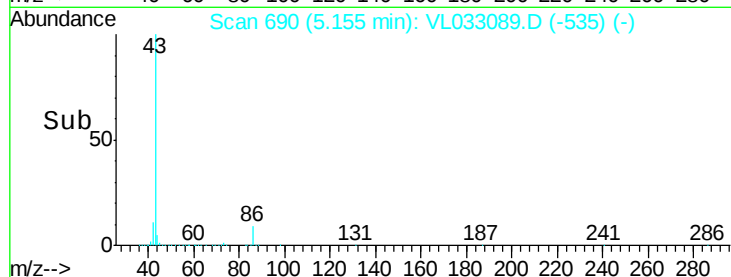
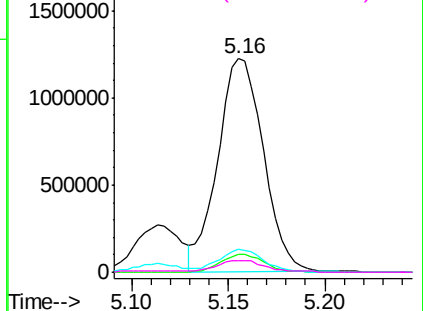


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.861 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

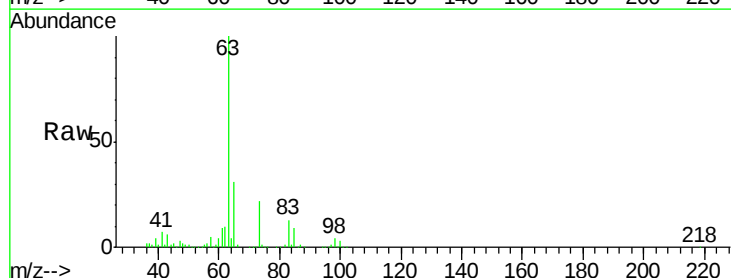
Tgt Ion: 63 Resp: 1502094

Ion Ratio Lower Upper

63 100

98 4.4 2.4 7.2

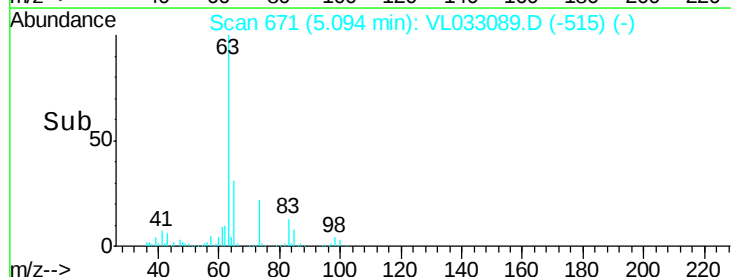
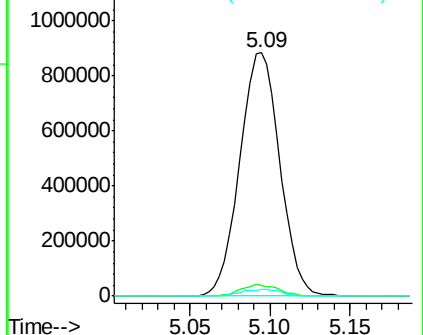
100 3.1 1.4 4.0

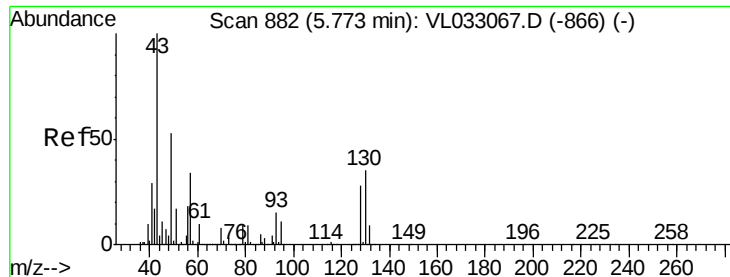


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.994 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 43 Resp: 2385875

Ion Ratio Lower Upper

43 100

45 9.9 7.9 11.9

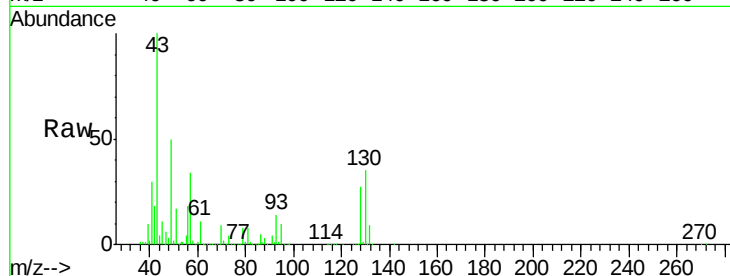
61 9.6 7.8 11.8

70 7.3 6.0 9.0

Manual Integrations
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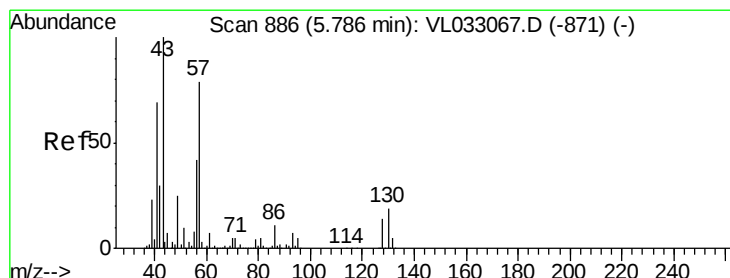
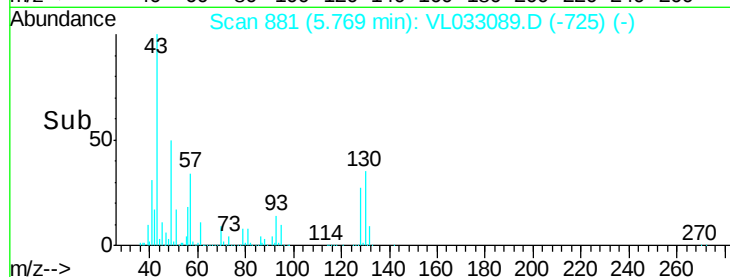
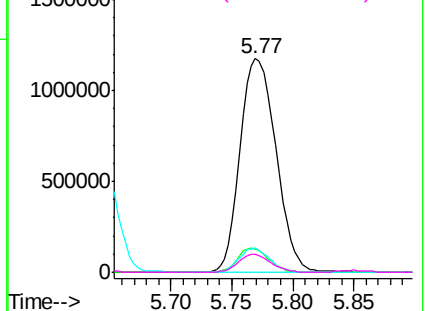


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.944 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Tgt Ion: 57 Resp: 1117131

Ion Ratio Lower Upper

57 100

41 88.6 70.8 106.2

43 214.6 171.8 257.6

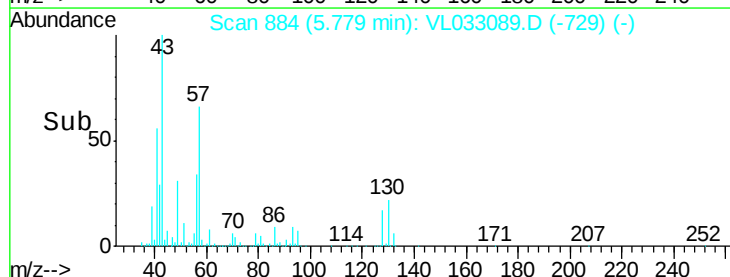
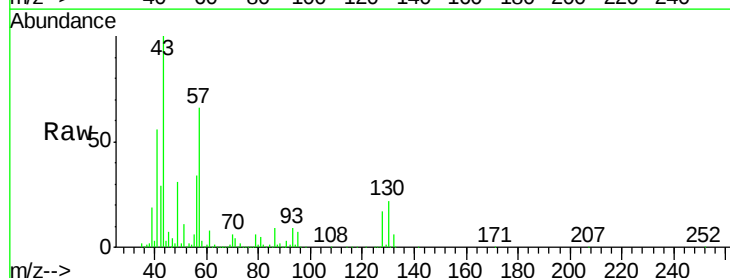
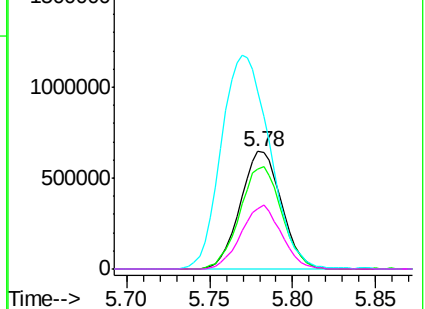
56 53.0 41.9 62.9

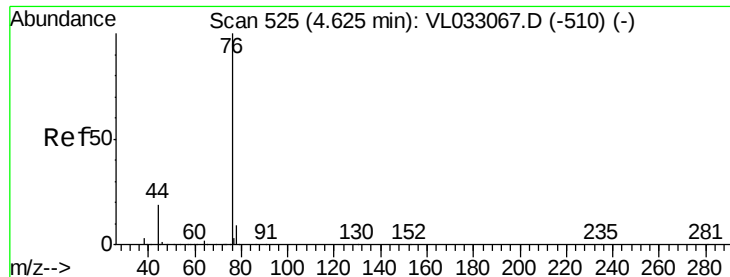
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 9.989 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 76 Resp: 1538702

Ion Ratio Lower Upper

76 100

44 17.4 13.9 20.9

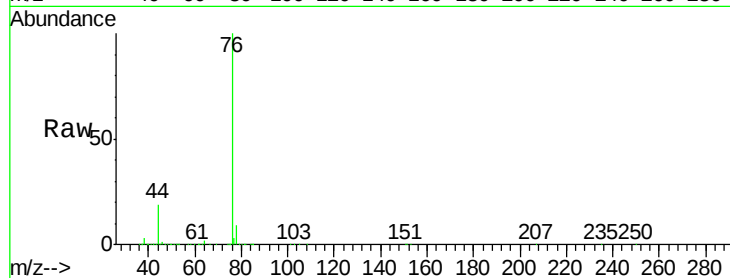
78 9.3 7.3 10.9

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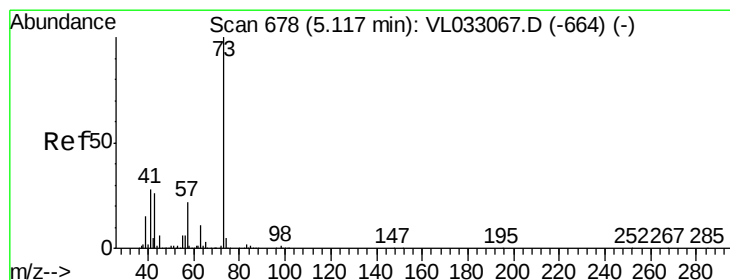
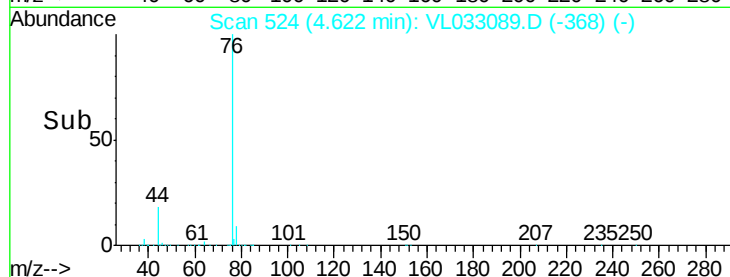
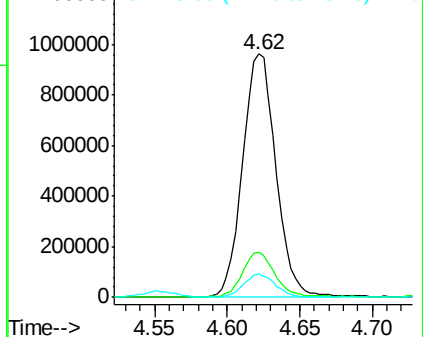
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.541 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033089.D

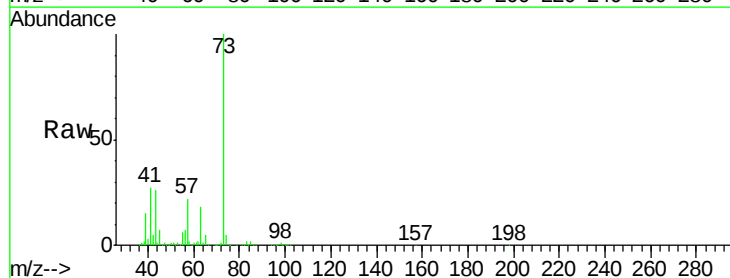
Acq: 16 Jan 2019 11:49

Tgt Ion: 73 Resp: 1860081

Ion Ratio Lower Upper

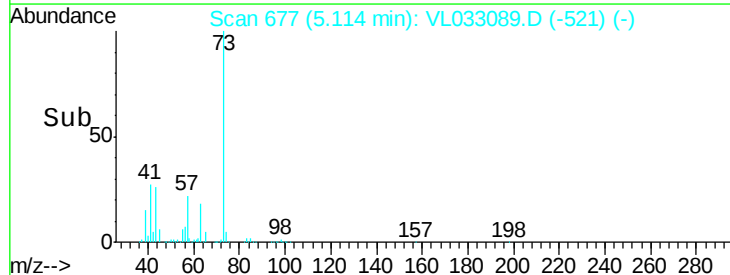
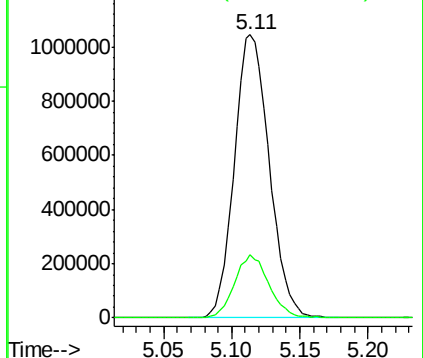
73 100

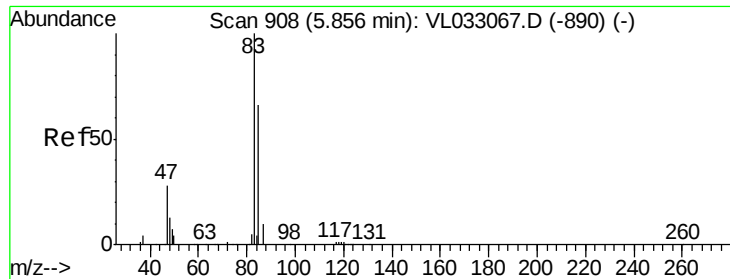
57 21.8 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





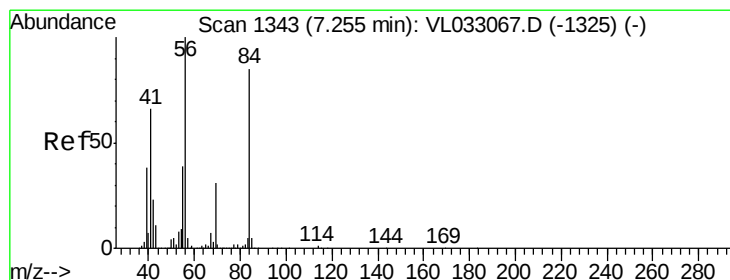
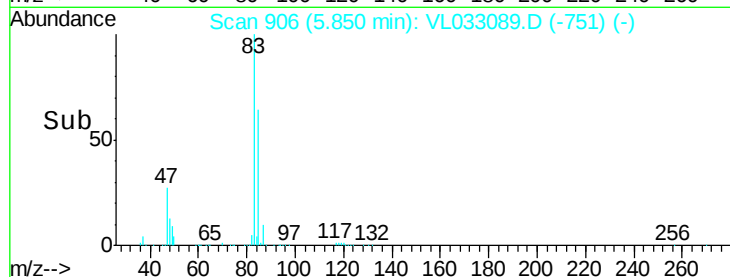
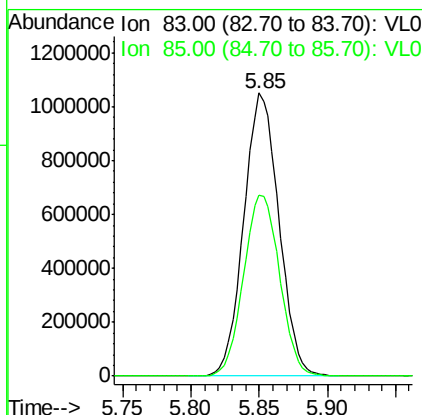
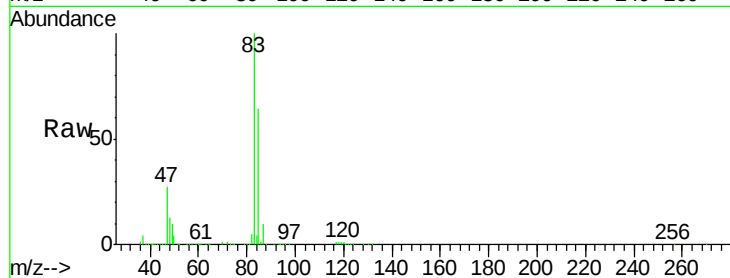
#29
Chloroform
Concen: 8.828 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion: 83 Resp: 1879119
Ion Ratio Lower Upper
83 100
85 63.8 52.5 78.7

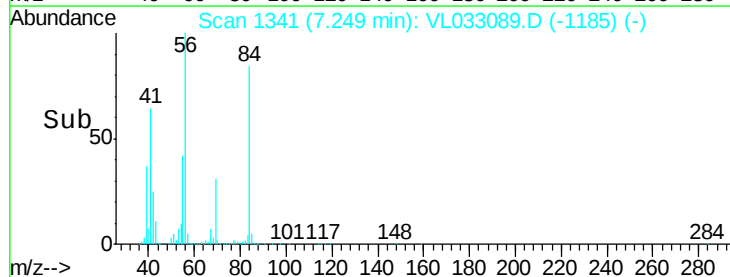
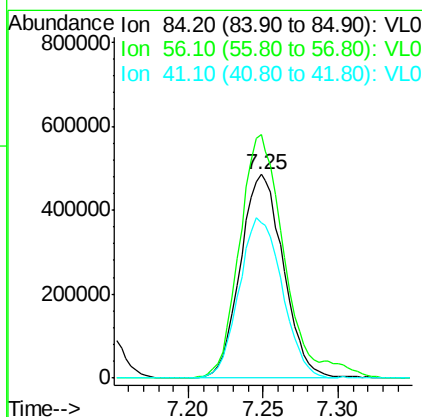
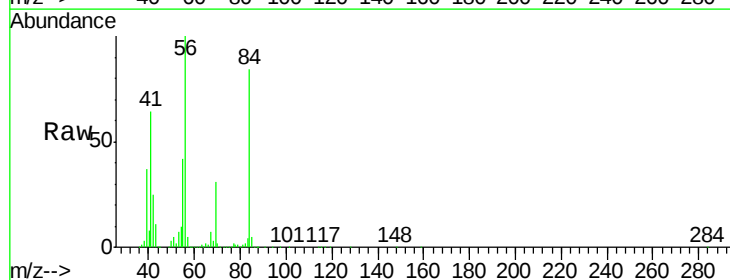
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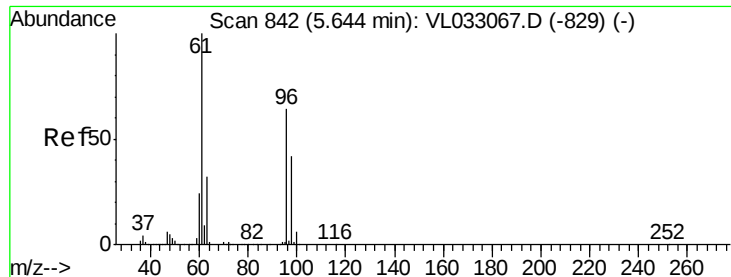
MMDadoda
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#30
Cyclohexane
Concen: 10.374 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion: 84 Resp: 966202
Ion Ratio Lower Upper
84 100
56 125.9 101.8 152.6
41 79.3 63.2 94.8





#31

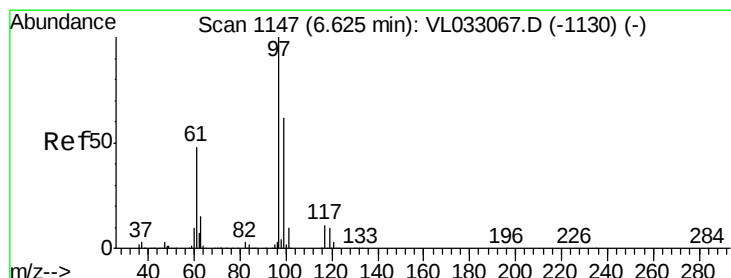
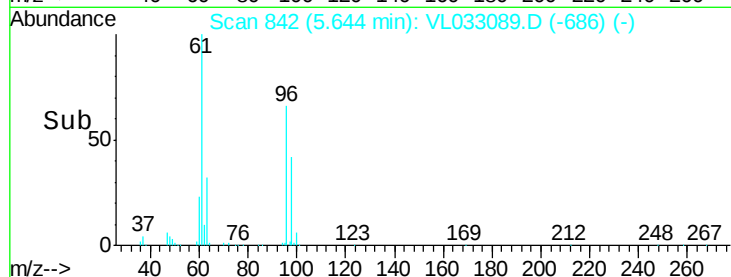
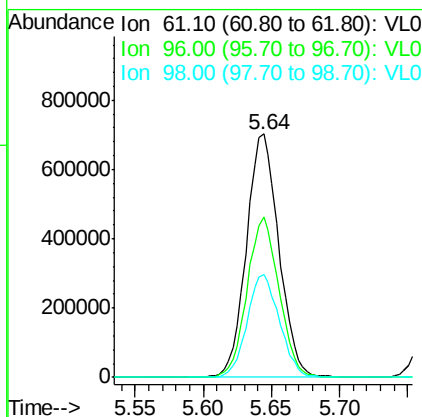
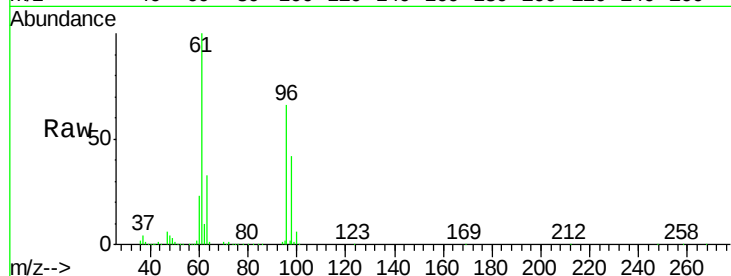
cis-1,2-Dichloroethene
 Concen: 10.016 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.0	52.8	79.2
98	42.1	33.8	50.6

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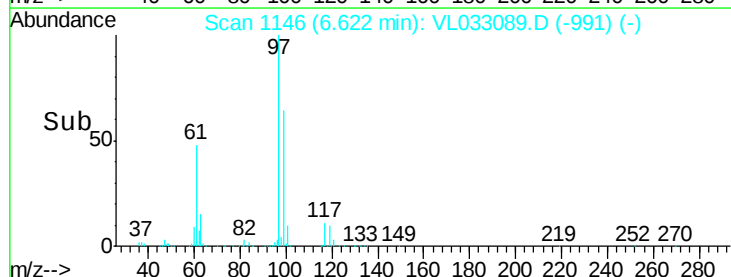
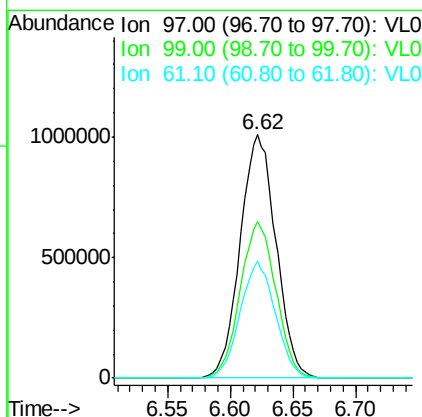
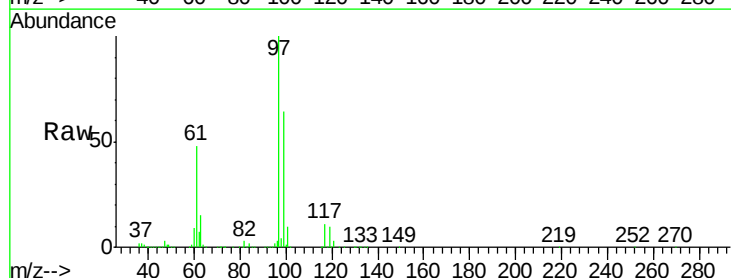
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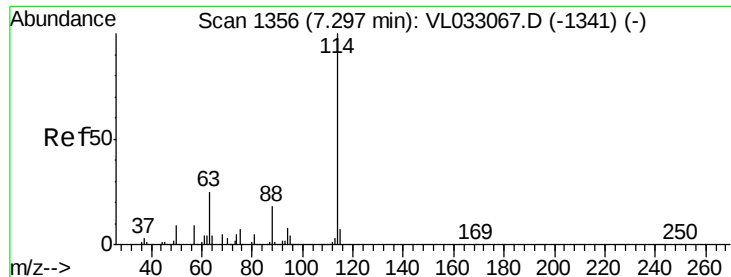


#32

1,1,1-Trichloroethane
 Concen: 9.288 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	47.3	38.3	57.5





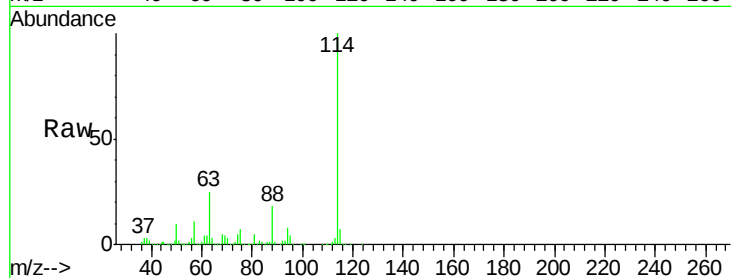
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.1	30.1
88	17.4	14.0	21.0

Manual Integrations
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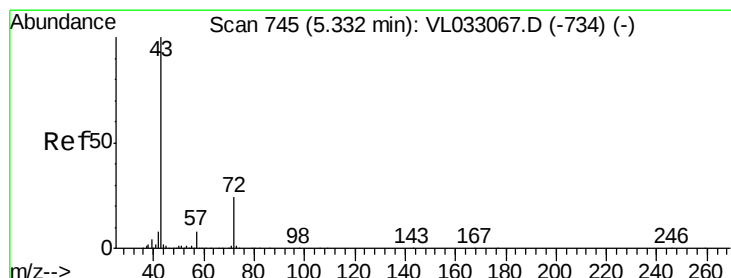
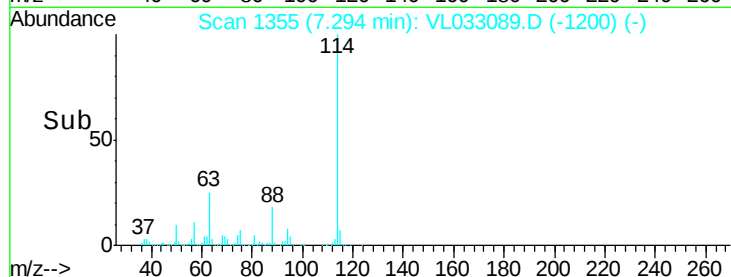
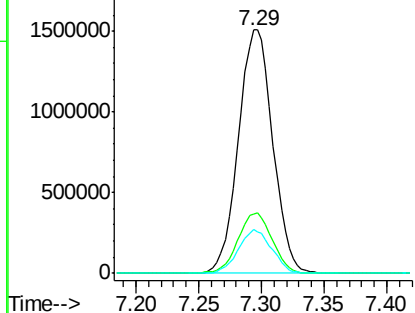
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Abundance Ion 114.10 (113.80 to 114.80): VL033067.D (-1341) (-)

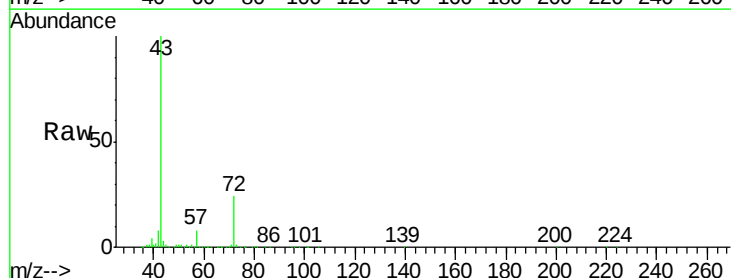
Ion 63.10 (62.80 to 63.80): VL033067.D (-1341) (-)

Ion 88.10 (87.80 to 88.80): VL033067.D (-1341) (-)



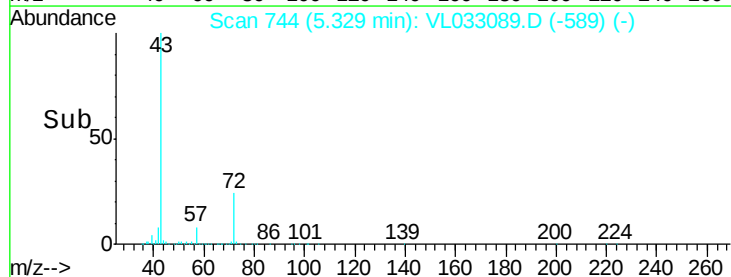
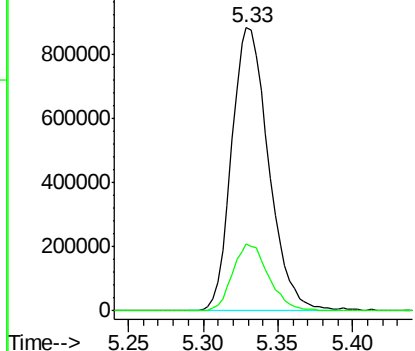
#34
 2-Butanone
 Concen: 9.047 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

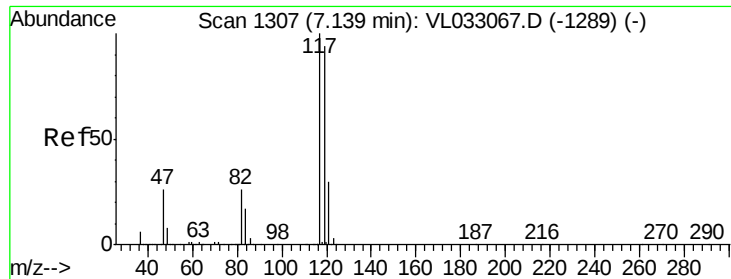
Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.9	28.3



Abundance Ion 43.10 (42.80 to 43.80): VL033067.D (-734) (-)

Ion 72.10 (71.80 to 72.80): VL033067.D (-734) (-)





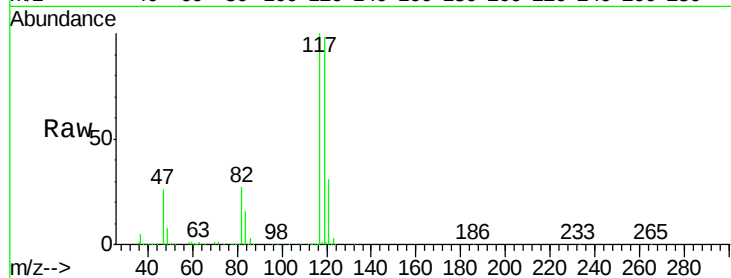
#35
Carbon Tetrachloride
Concen: 8.831 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

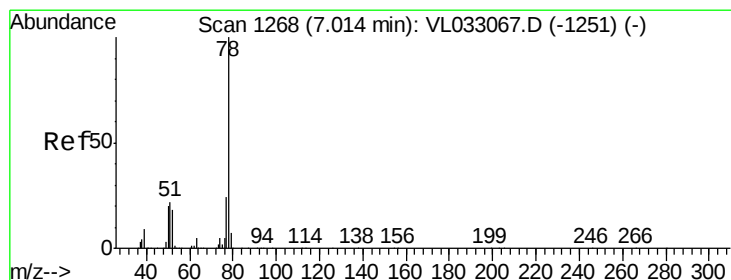
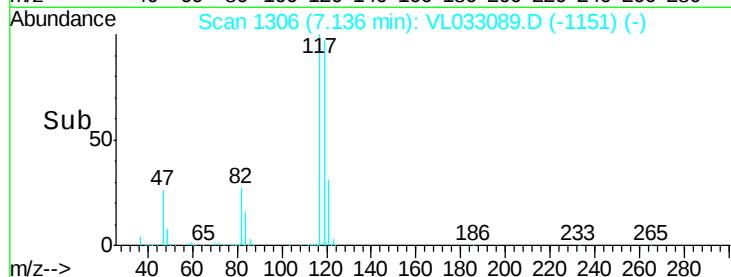
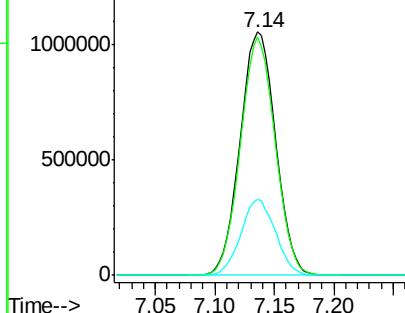
Tot Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.5	114.7
121	31.1	25.2	37.8

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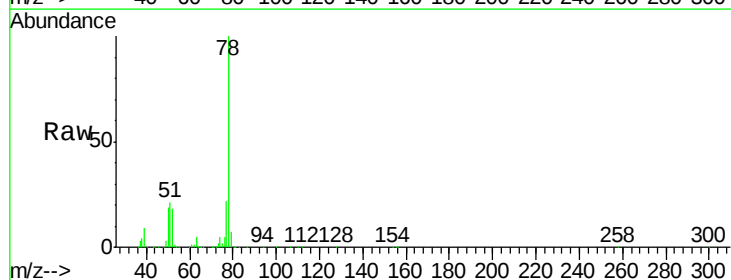


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

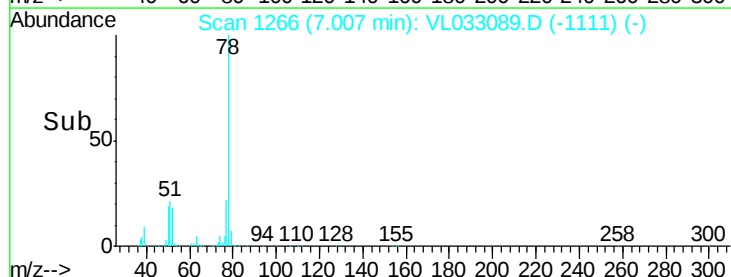
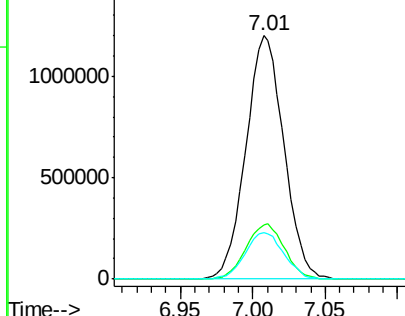


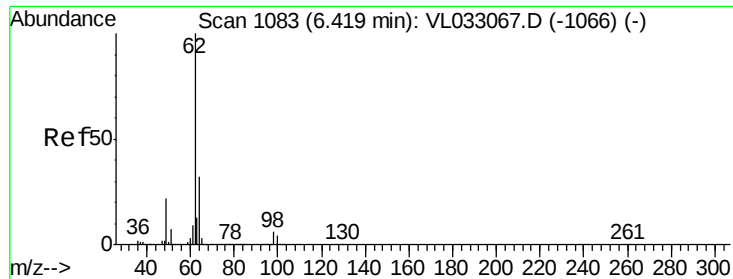
#36
Benzene
Concen: 9.283 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.5	27.7
50	19.1	15.7	23.5



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





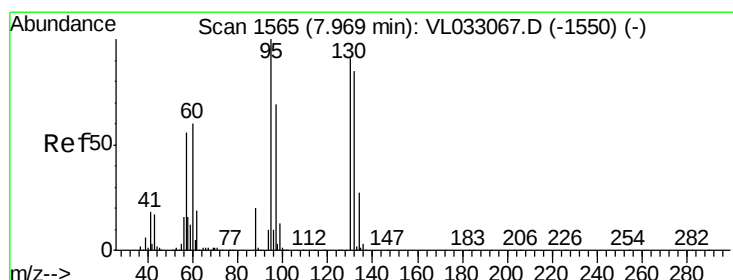
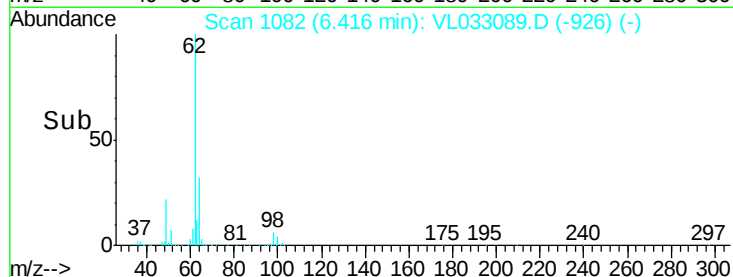
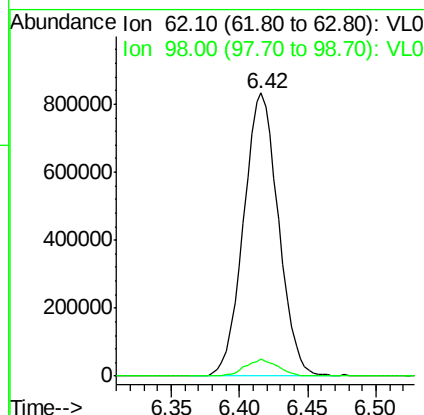
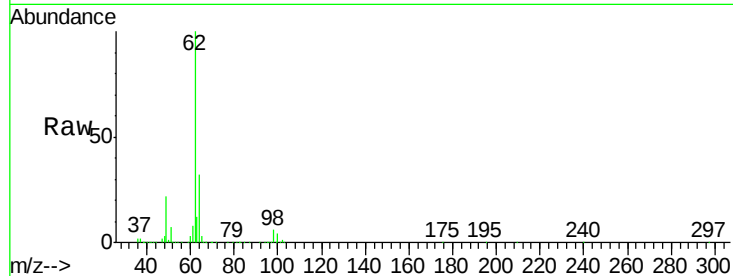
#37
 1,2-Dichloroethane
 Concen: 9.009 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion: 62 Resp: 1479632
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.6 7.0

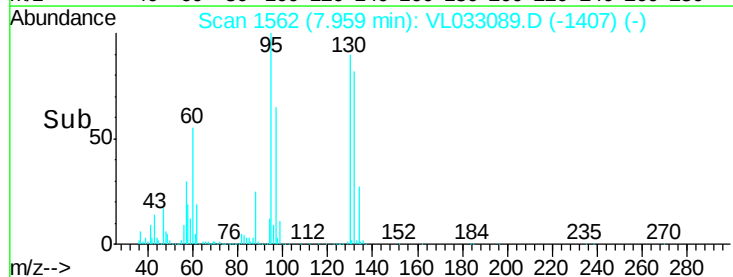
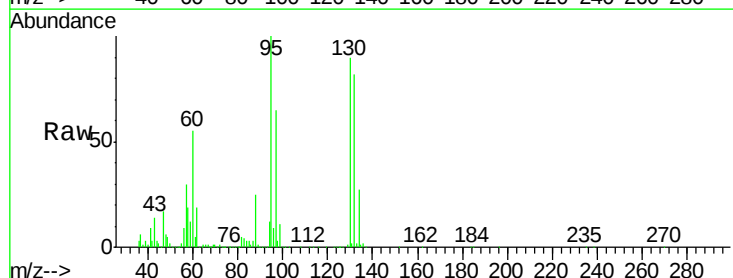
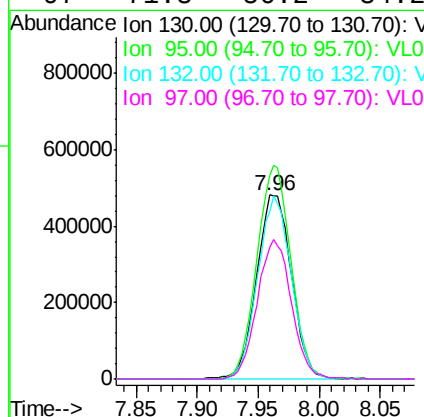
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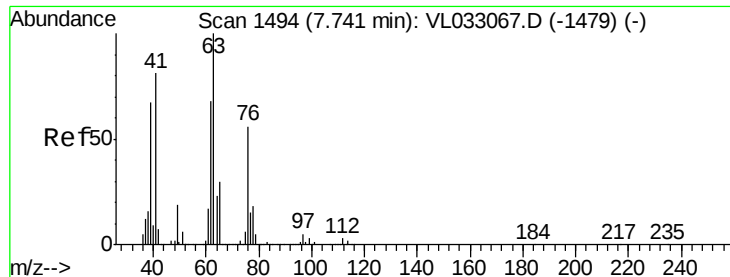
MMDadoda
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#38
 Trichloroethene
 Concen: 9.826 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion:130 Resp: 950913
 Ion Ratio Lower Upper
 130 100
 95 111.0 88.6 132.8
 132 91.3 74.2 111.2
 97 71.8 56.2 84.2





#39

1,2-Dichloropropane

Concen: 9.167 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

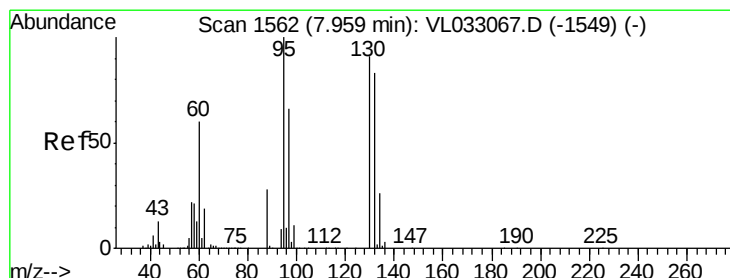
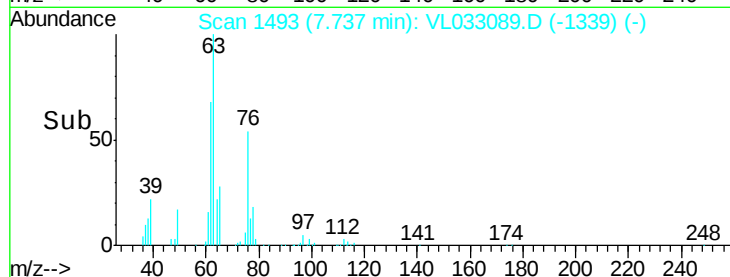
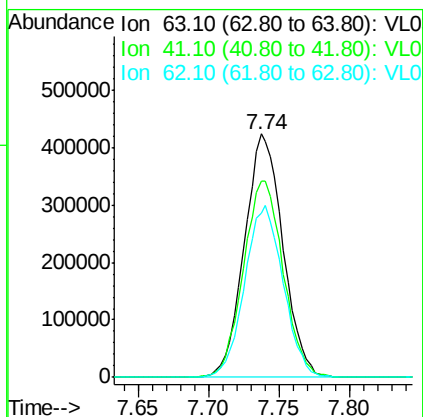
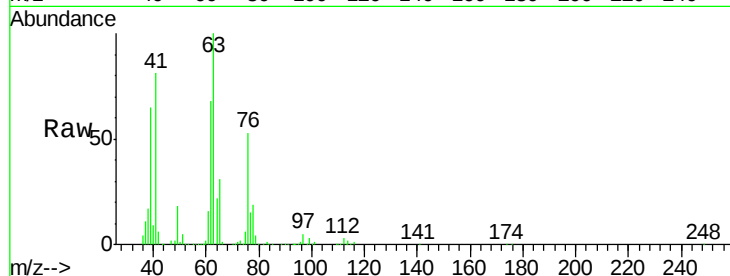
ClientSampleId :

VL0116ABS01

Tot Ion:	63	Resp:	810096
Ion Ratio	Lower	Upper	
63	100		
41	80.7	61.9	92.9
62	67.6	55.8	83.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.024 ppbv

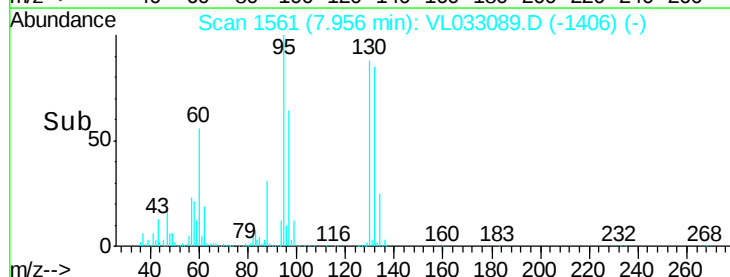
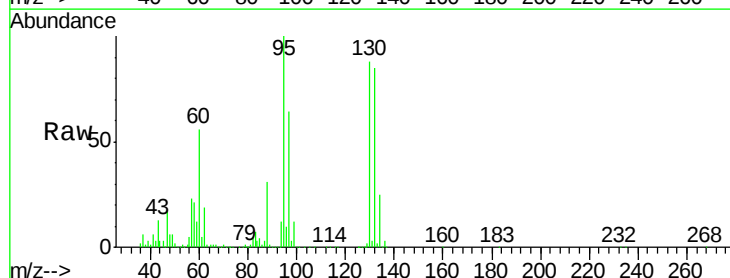
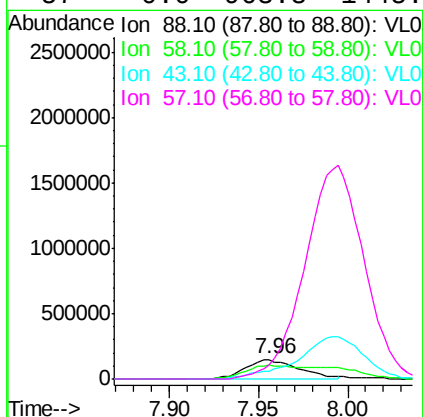
RT: 7.96 min Scan# 1561

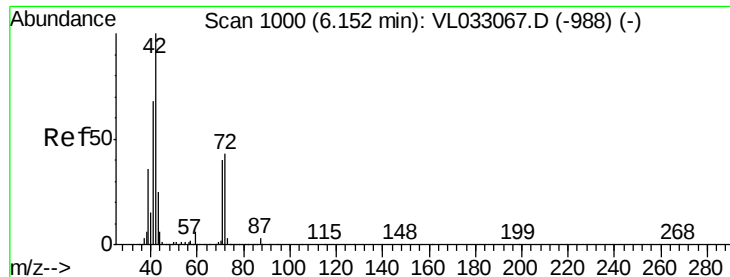
Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Tgt Ion:	88	Resp:	302703
Ion Ratio	Lower	Upper	
88	100		
58	131.0	101.9	152.9
43	0.0	212.6	319.0#
57	0.0	963.8	1445.6#





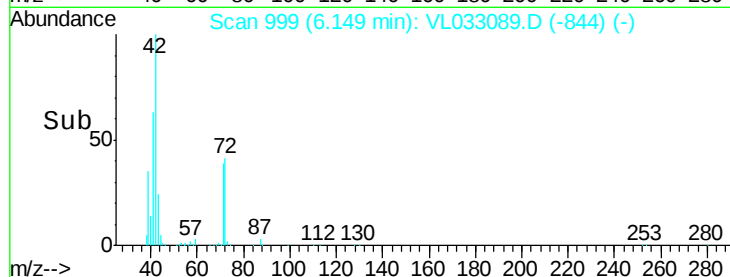
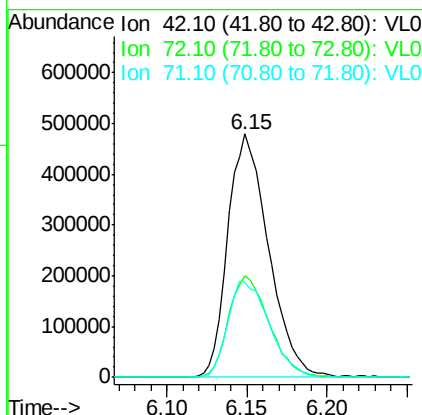
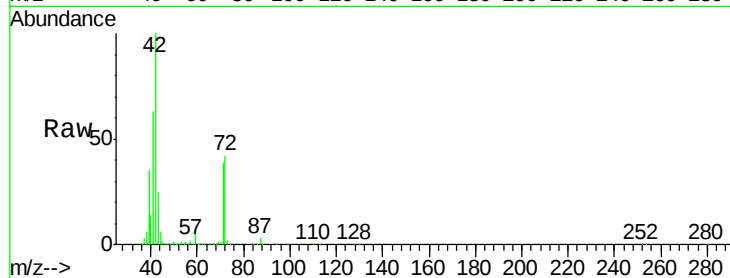
#41
Tetrahydrofuran
Concen: 9.792 ppbv
RT: 6.15 min Scan# 999
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.8	32.9	49.3
71	40.9	31.8	47.6

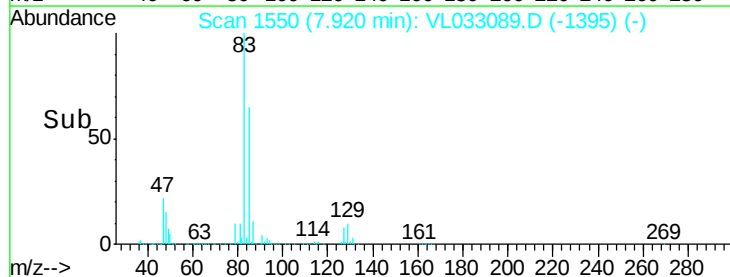
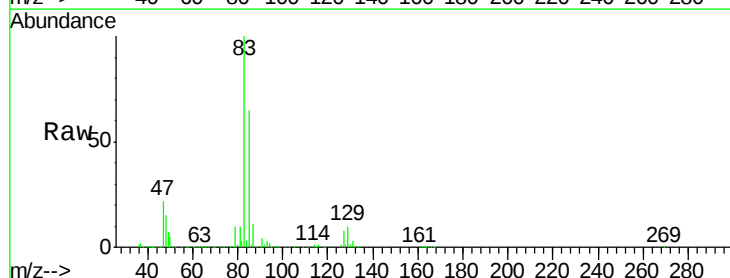
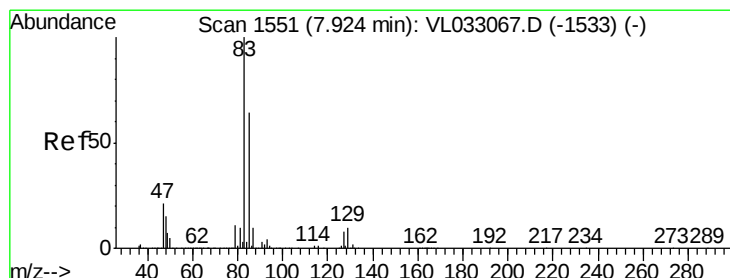
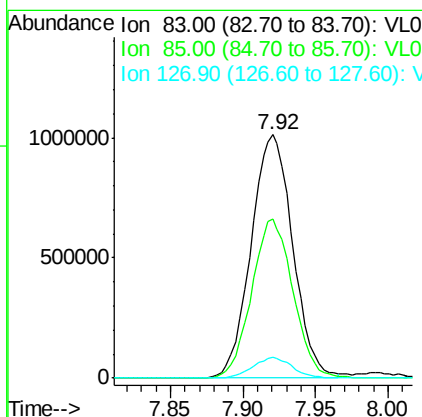
Manual Integrations
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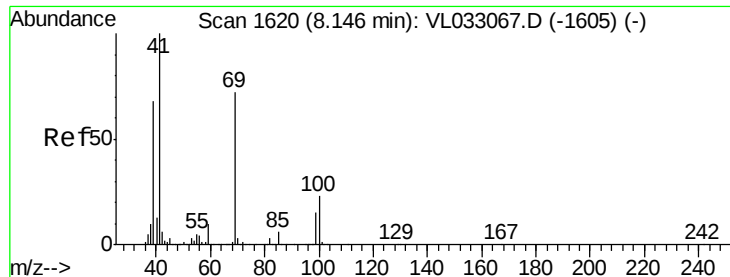
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#42
Bromodichloromethane
Concen: 8.959 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.0	76.4
127	8.4	6.5	9.7





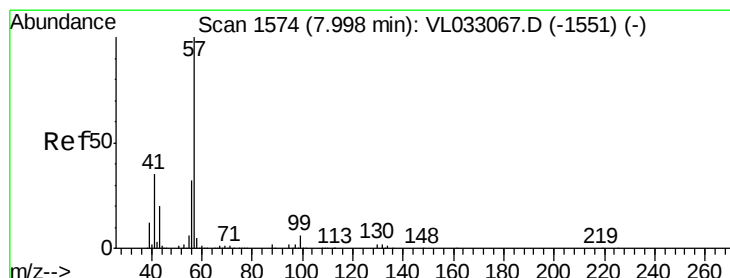
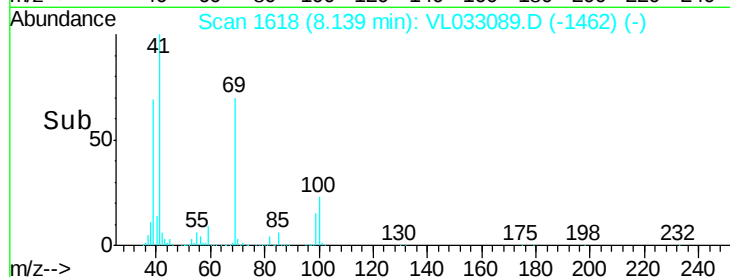
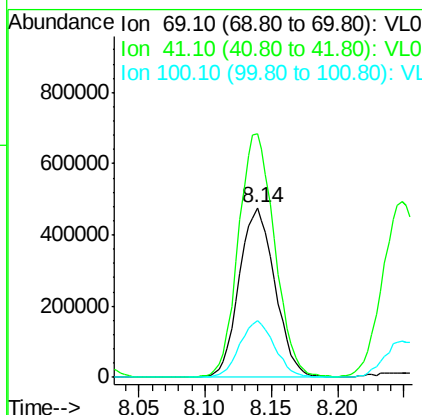
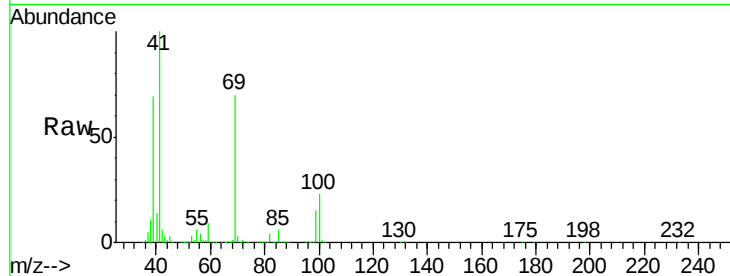
#43
Methvl Methacrilate
Concen: 10.135 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion: 69 Resp: 894571
Ion Ratio Lower Upper
69 100
41 144.8 114.0 171.0
100 32.5 26.3 39.5

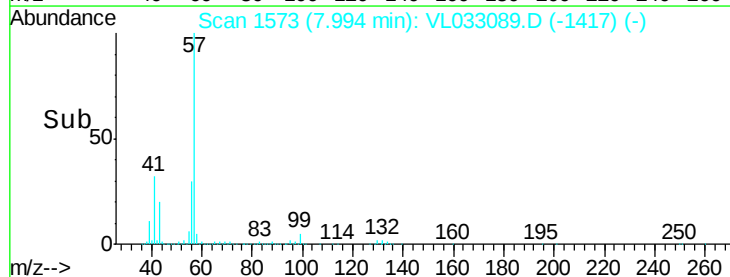
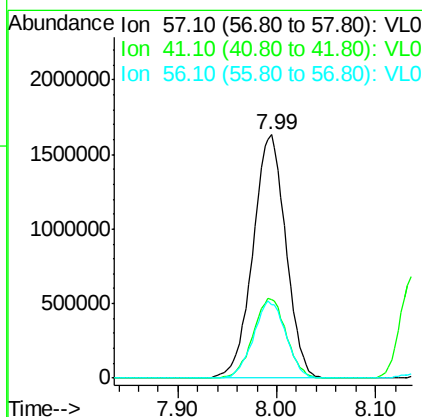
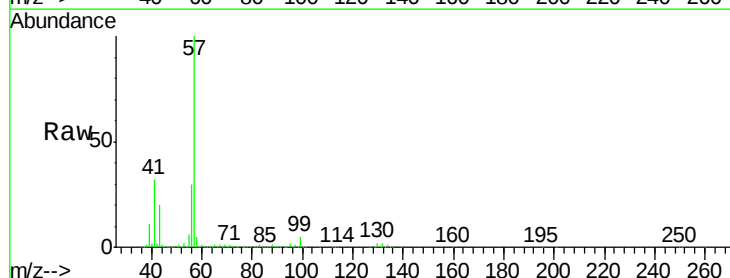
Manual Integrations
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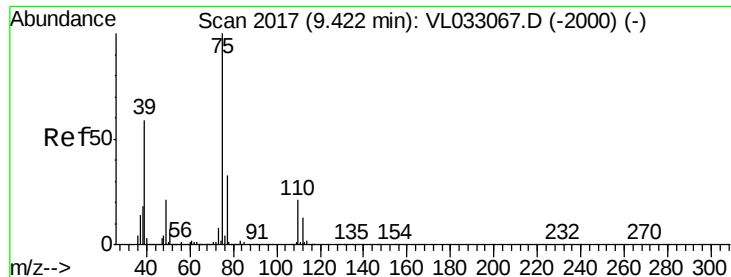
MMDadoda
1/17/2019 3:15:58 PM



#44
2,2,4-Trimethylpentane
Concen: 9.407 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion: 57 Resp: 3747457
Ion Ratio Lower Upper
57 100
41 32.9 26.2 39.2
56 31.2 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 11.341 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 75 Resp: 1246102

Ion Ratio Lower Upper

75 100

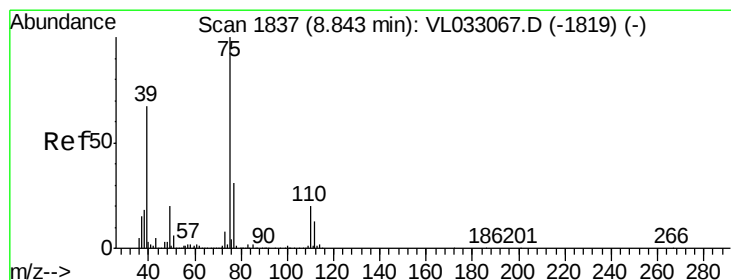
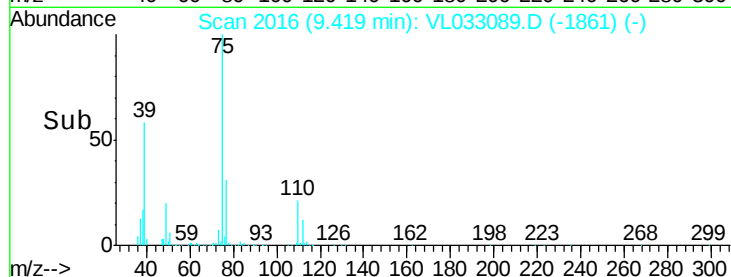
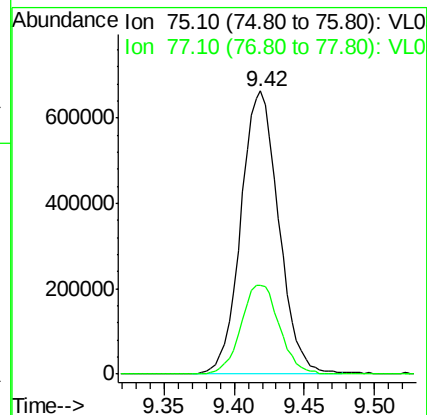
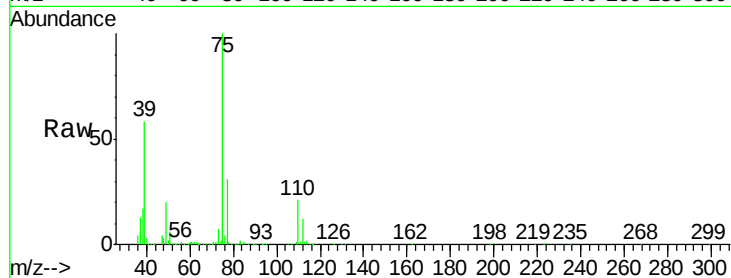
77 31.5 24.8 37.2

Manual Integrations

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1/17/2019 3:15:58 PM



#46

cis-1,3-Dichloropropene

Concen: 11.248 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

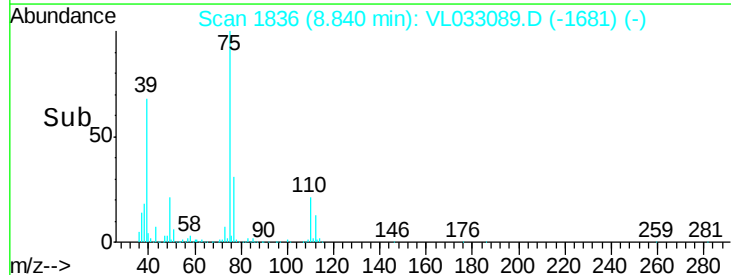
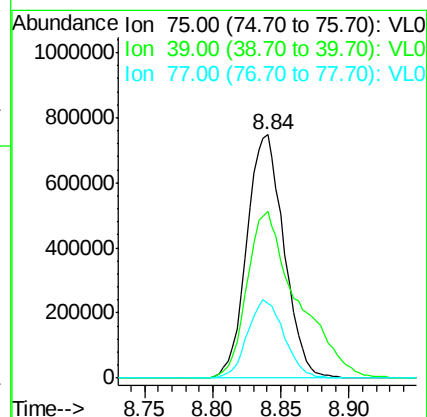
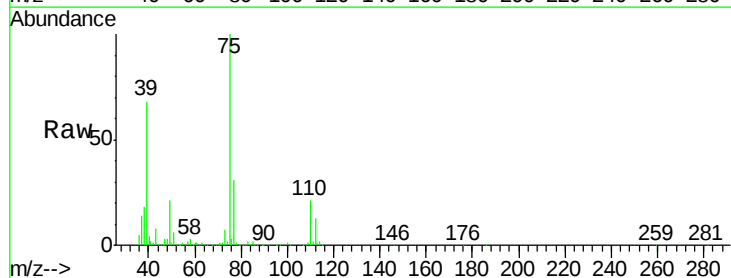
Tgt Ion: 75 Resp: 1410553

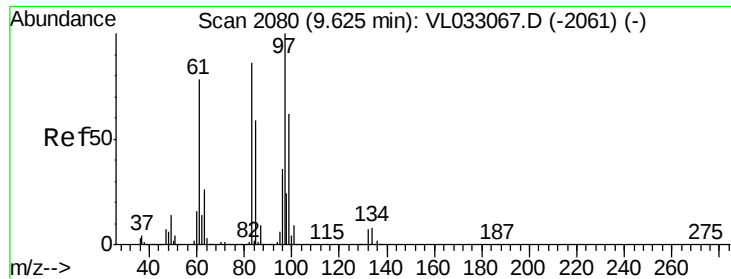
Ion Ratio Lower Upper

75 100

39 68.2 51.3 76.9

77 30.8 25.5 38.3





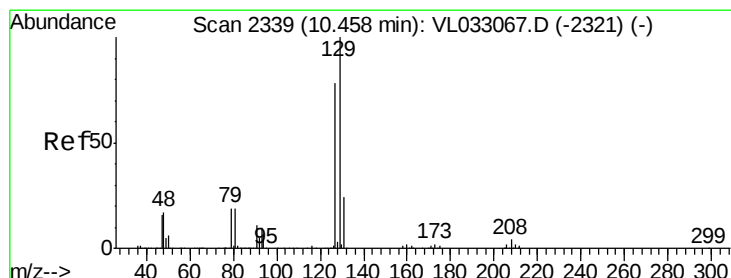
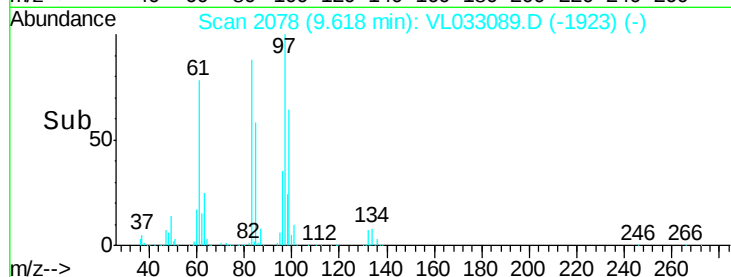
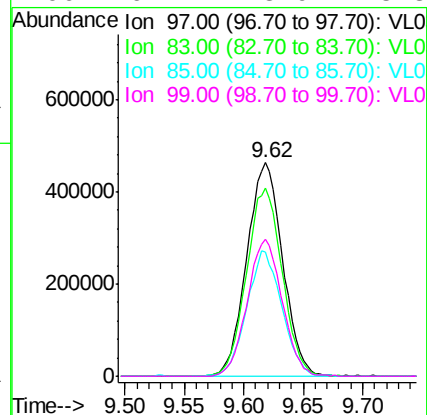
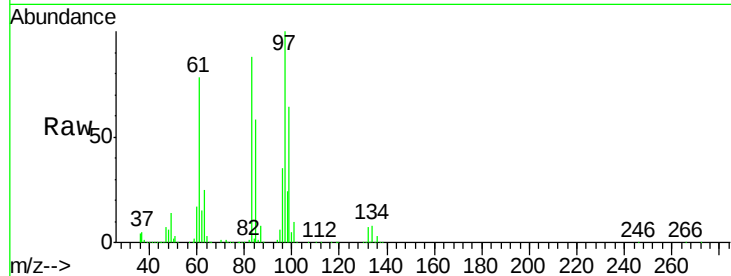
#47
 1,1,2-Trichloroethane
 Concen: 9.367 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.4	104.2
85	58.1	44.2	66.2
99	64.1	48.9	73.3

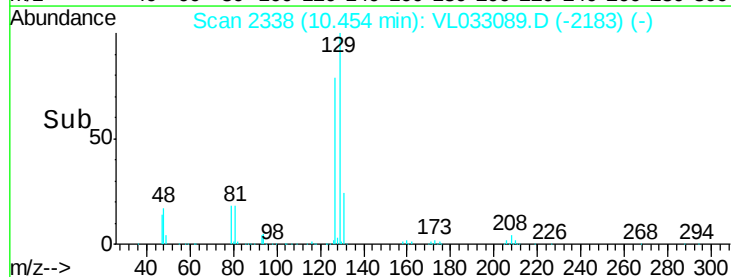
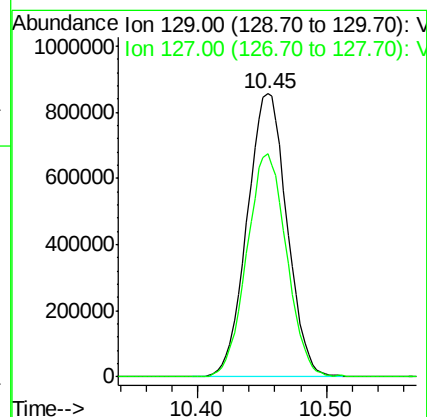
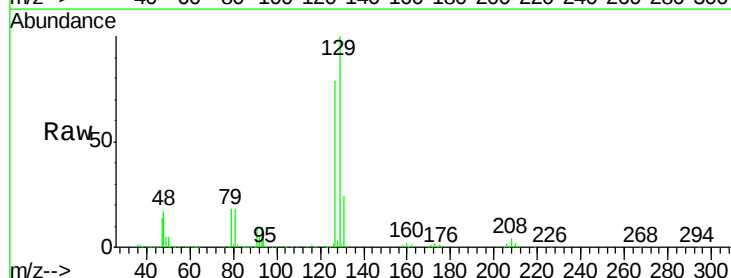
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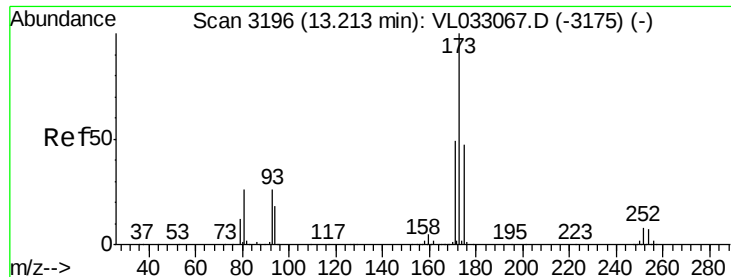
MMDadoda
 1/17/2019 3:15:58 PM



#48
 Dibromochloromethane
 Concen: 10.091 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.1	117.3





#49

Bromoform

Concen: 9.969 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion:173 Resp: 1588876

Ion Ratio Lower Upper

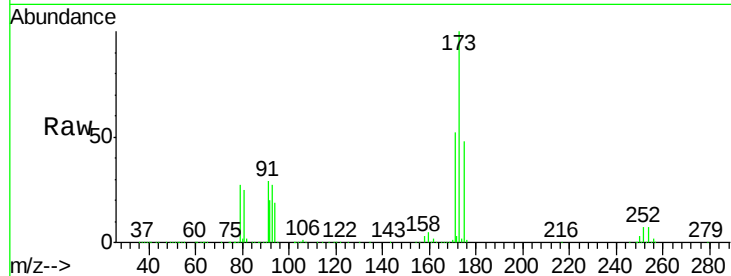
173 100

175 48.5 39.4 59.2

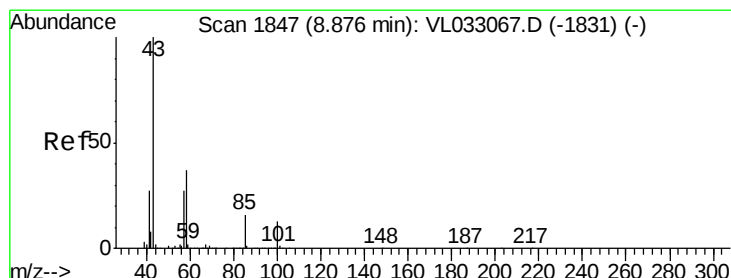
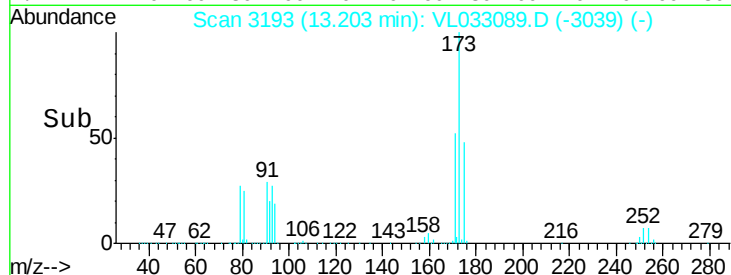
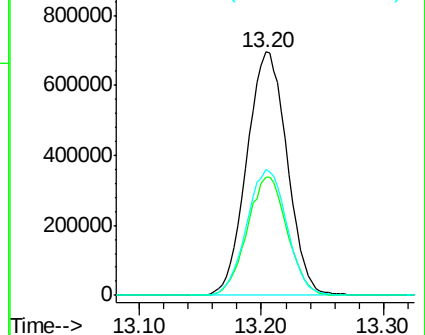
171 51.7 42.1 63.1

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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: 10.161 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033089.D

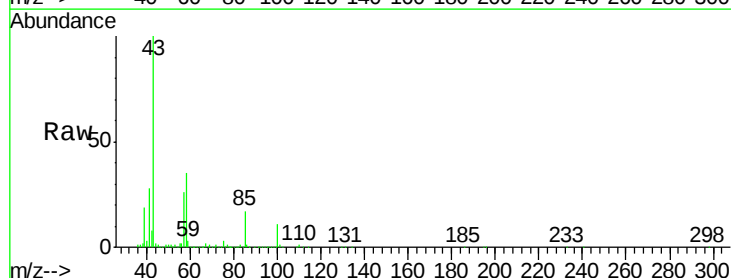
Acq: 16 Jan 2019 11:49

Tgt Ion: 43 Resp: 2148358

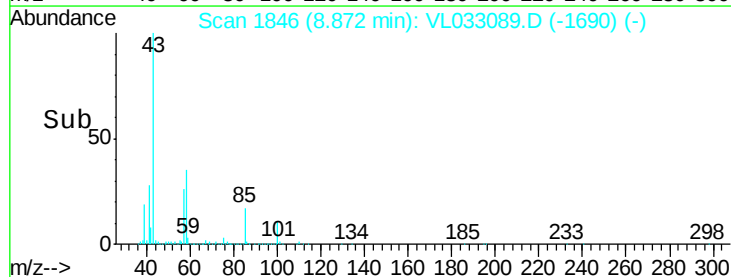
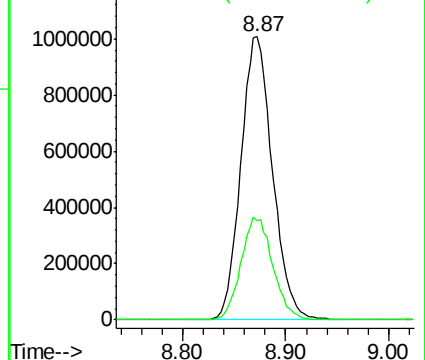
Ion Ratio Lower Upper

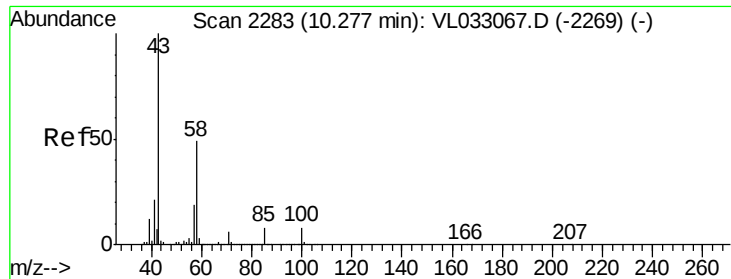
43 100

58 36.4 28.9 43.3



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





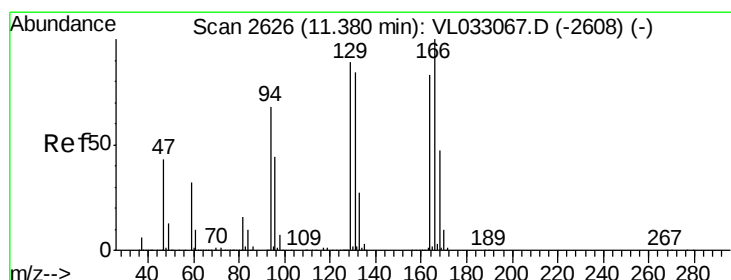
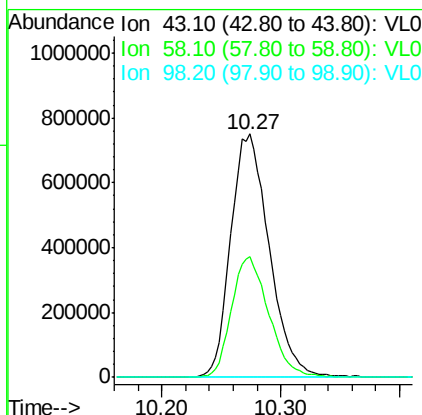
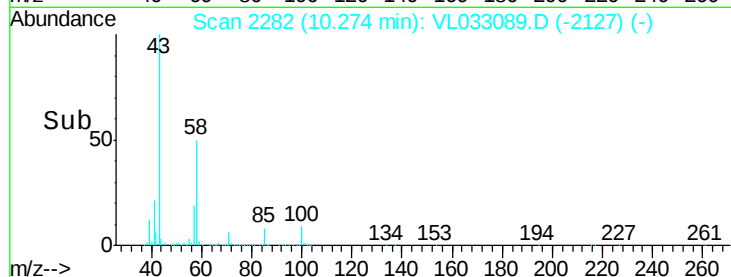
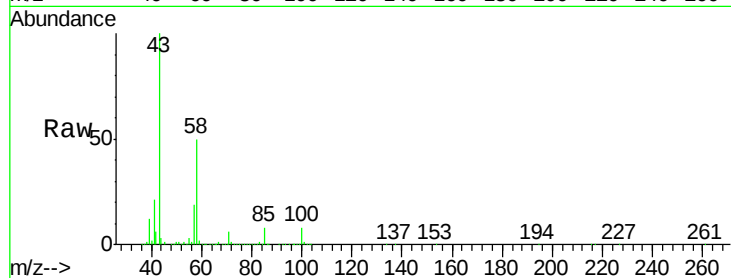
#51
2-Hexanone
Concen: 10.937 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion: 43 Resp: 1673179
Ion Ratio Lower Upper
43 100
58 48.3 39.0 58.6
98 0.5 0.4 0.6

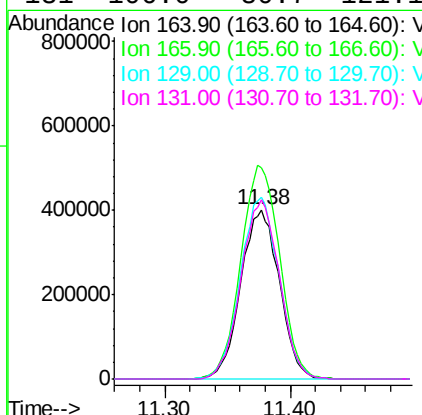
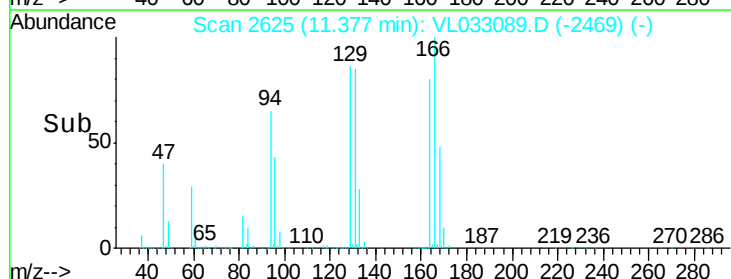
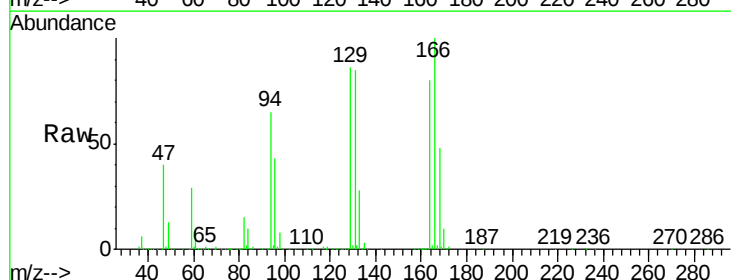
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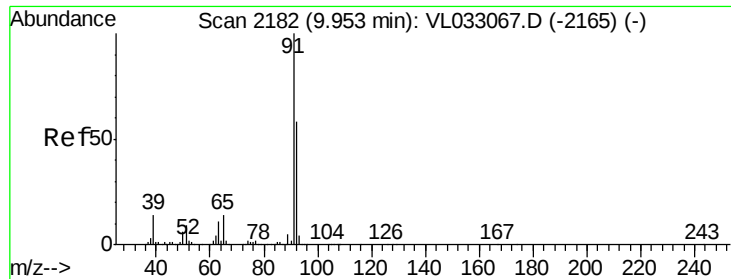
MMDadoda
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#52
Tetrachloroethene
Concen: 10.315 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion: 164 Resp: 857683
Ion Ratio Lower Upper
164 100
166 124.7 100.8 151.2
129 107.8 84.6 126.8
131 106.0 80.7 121.1





#53

Toluene

Concen: 10.638 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 91 Resp: 2681858

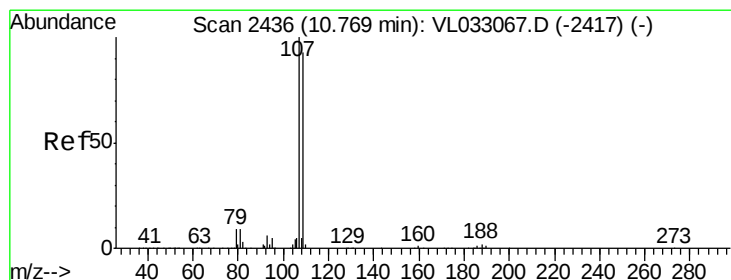
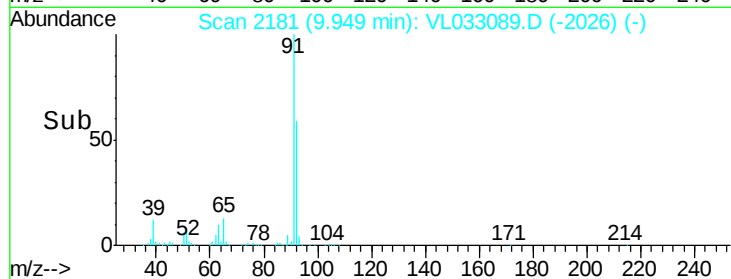
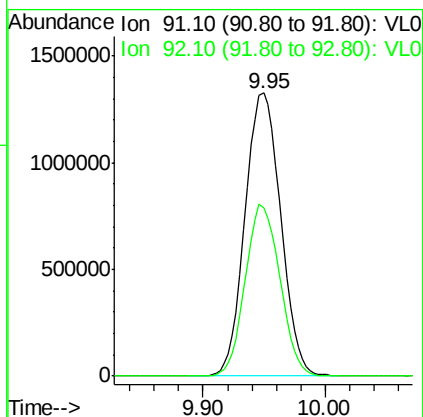
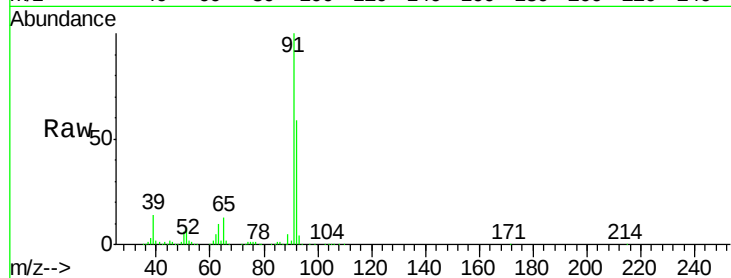
Ion Ratio Lower Upper

91 100

92 59.0 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 10.365 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033089.D

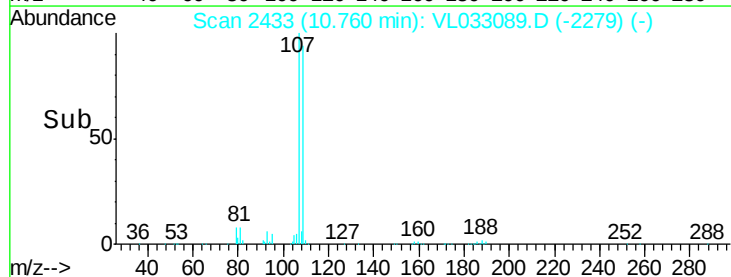
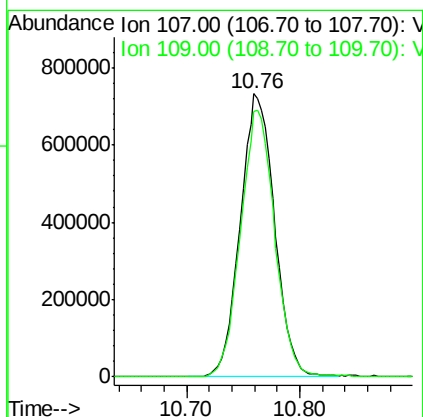
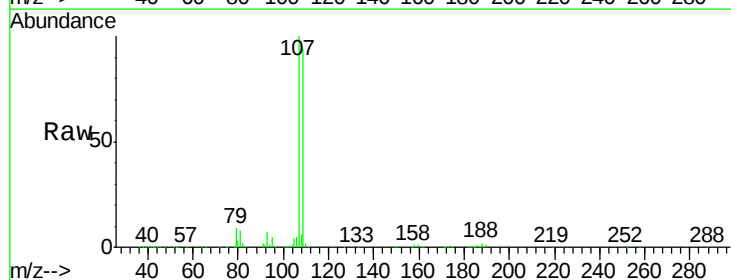
Acq: 16 Jan 2019 11:49

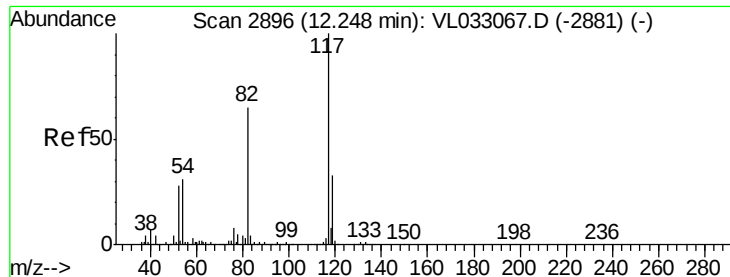
Tgt Ion: 107 Resp: 1541811

Ion Ratio Lower Upper

107 100

109 93.7 74.9 112.3





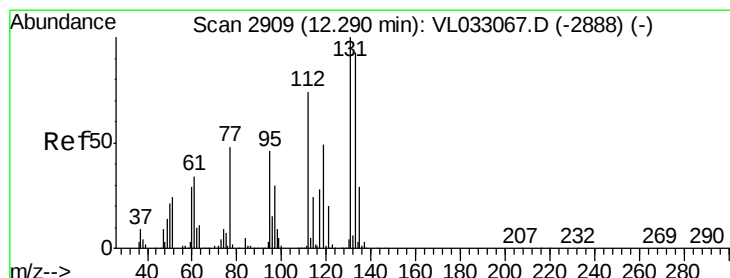
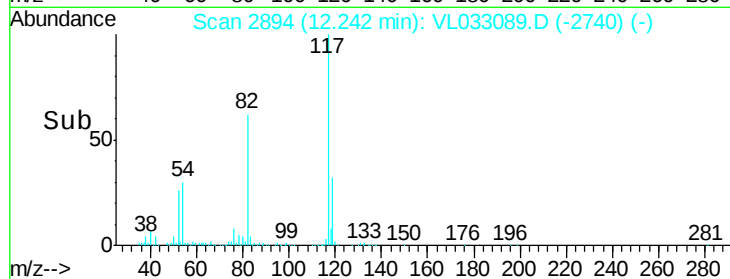
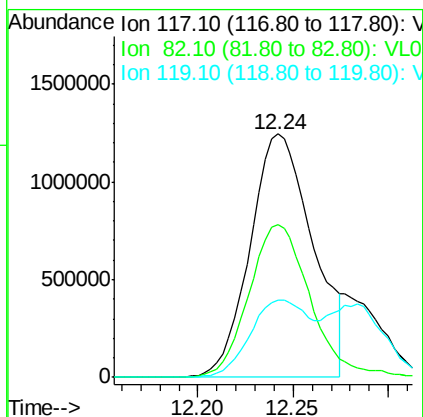
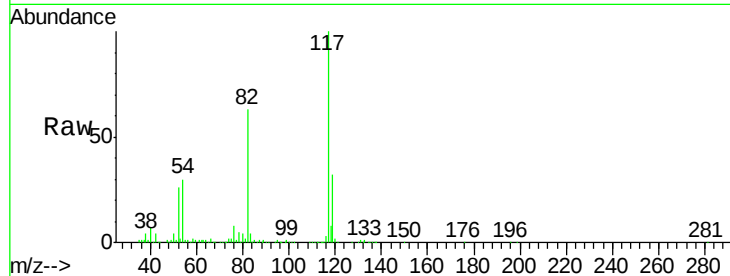
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion:117 Resp: 2847945
Ion Ratio Lower Upper
117 100
82 61.9 48.9 73.3
119 31.4 24.6 37.0

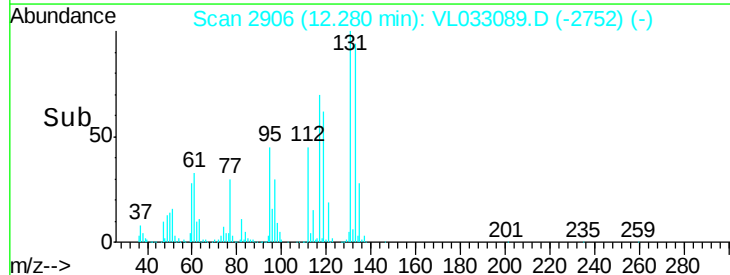
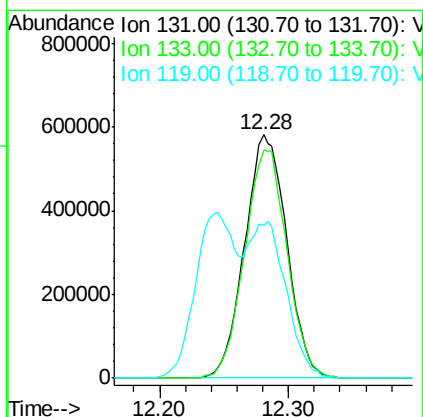
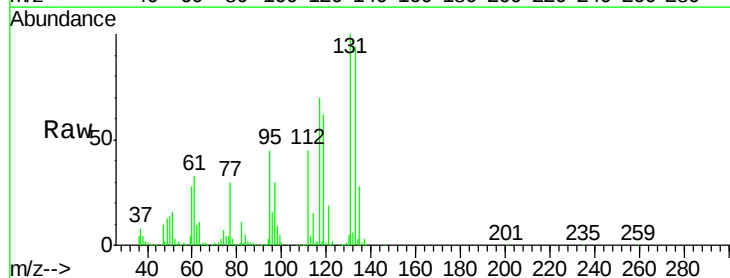
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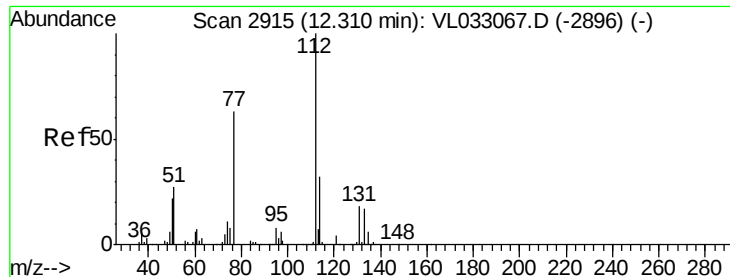
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.947 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion:131 Resp: 1316628
Ion Ratio Lower Upper
131 100
133 94.8 76.0 114.0
119 57.7 44.2 66.2





#57

Chlorobenzene

Concen: 8.931 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion:112 Resp: 2123078

Ion Ratio Lower Upper

112 100

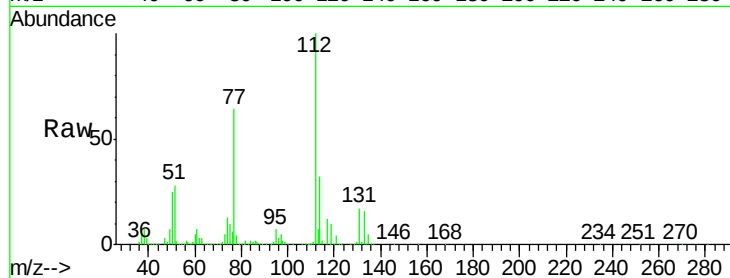
77 63.8 53.4 80.0

114 32.4 30.0 36.6

Manual Integrations
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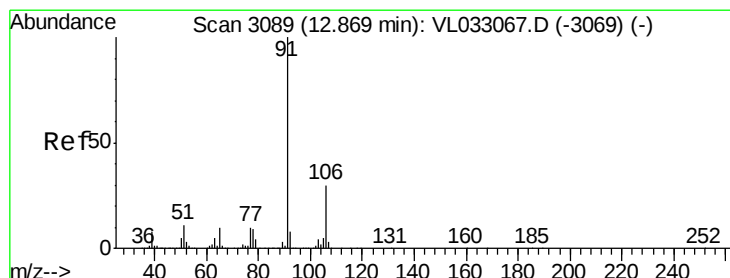
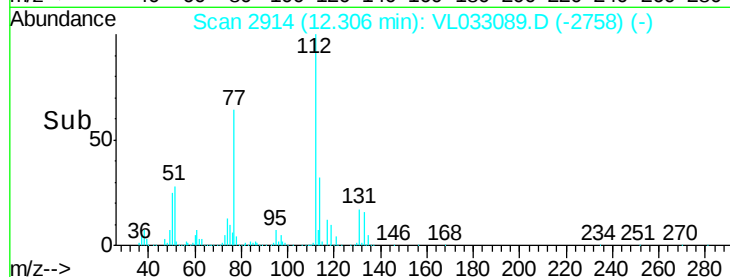
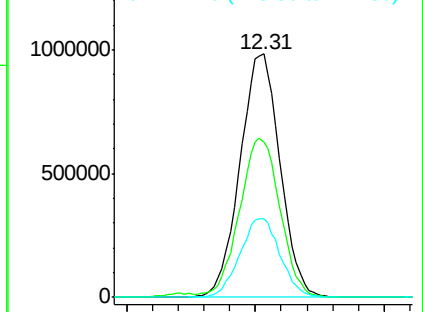
1/17/2019 3:15:58 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.266 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033089.D

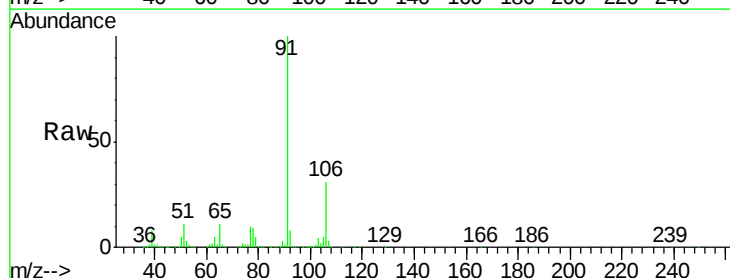
Acq: 16 Jan 2019 11:49

Tgt Ion: 91 Resp: 3691410

Ion Ratio Lower Upper

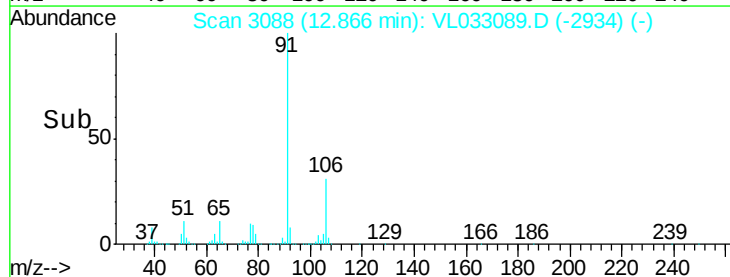
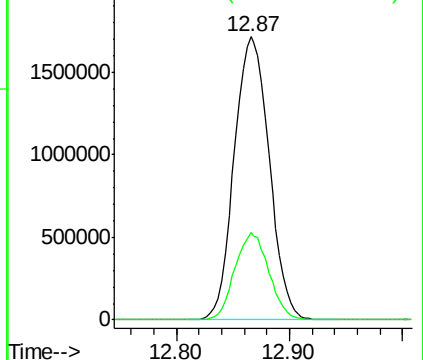
91 100

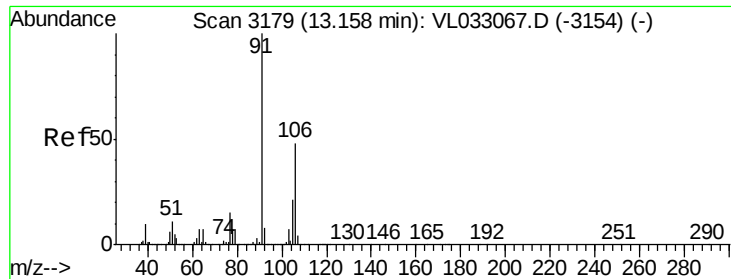
106 30.8 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 18.834 ppbv m

RT: 13.16 min Scan# 3178

Delta R.T. 0.02 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion: 91 Resp: 6264835

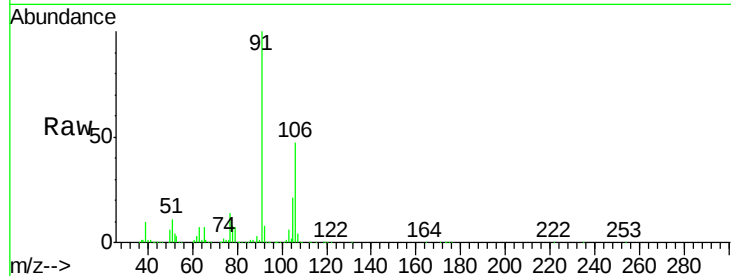
Ion Ratio Lower Upper

91 100

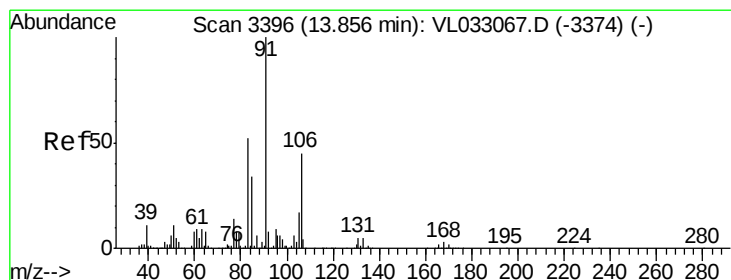
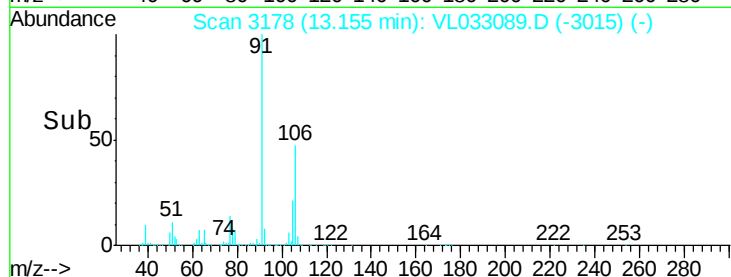
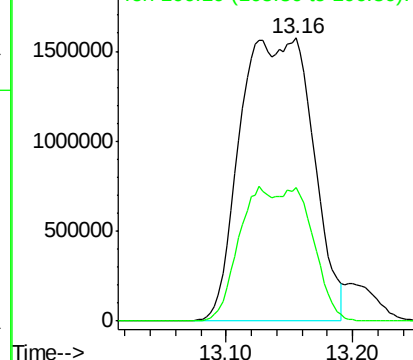
106 46.0 0.0 0.0#

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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.412 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.01 min

Lab File: VL033089.D

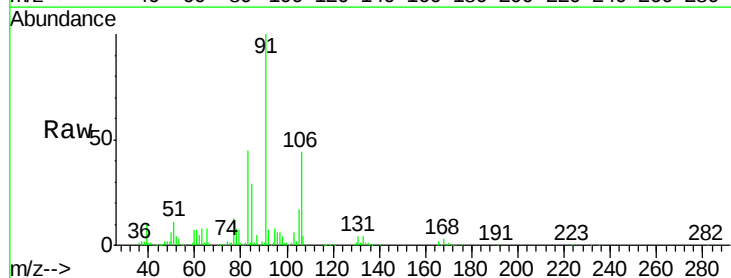
Acq: 16 Jan 2019 11:49

Tgt Ion: 91 Resp: 3064963

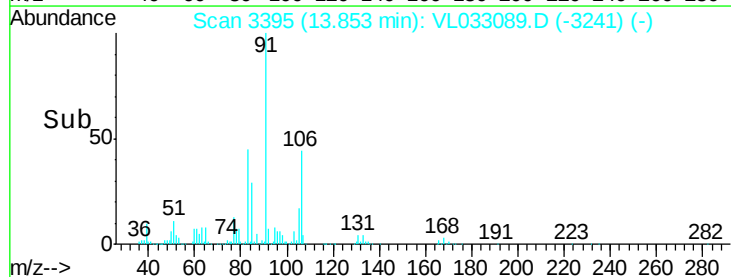
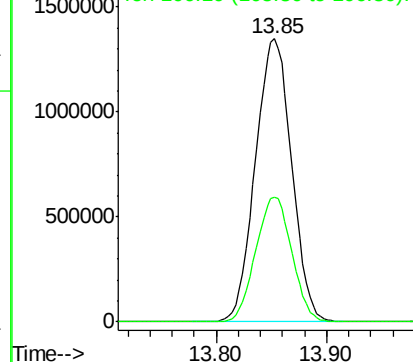
Ion Ratio Lower Upper

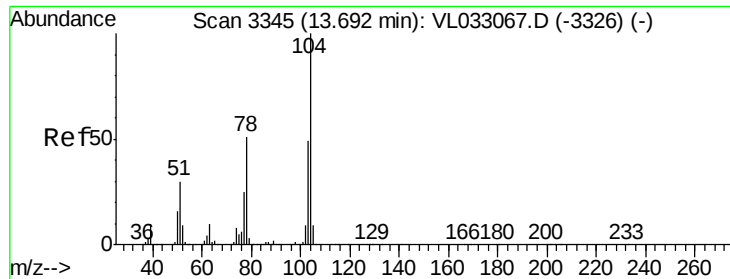
91 100

106 44.0 22.1 66.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





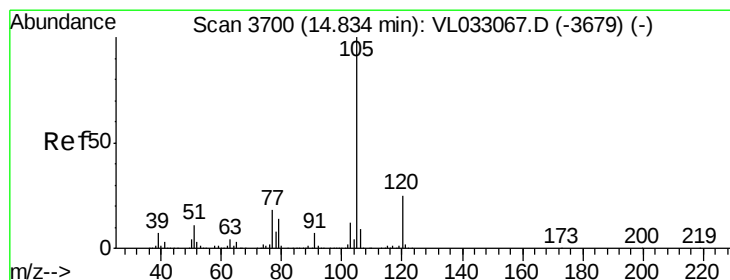
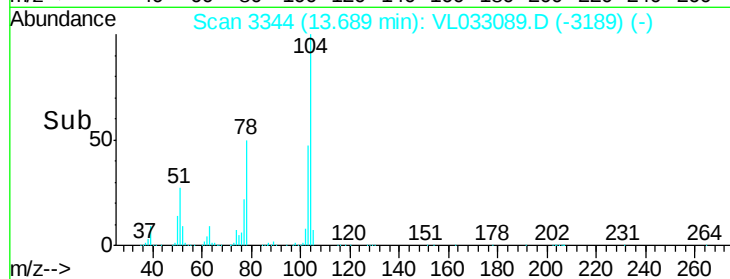
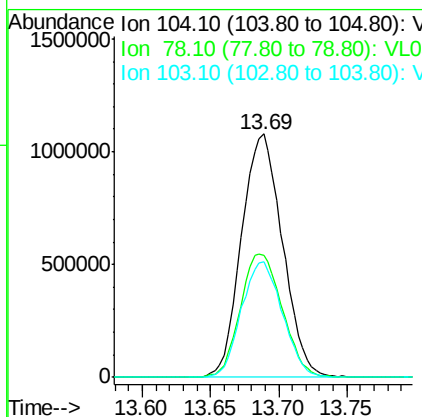
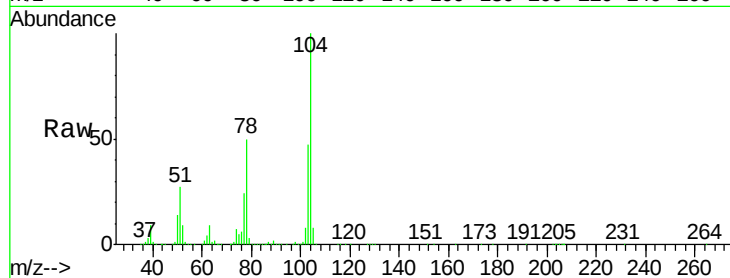
#61
Stvrene
Concen: 10.833 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.6	62.4
103	47.8	38.1	57.1

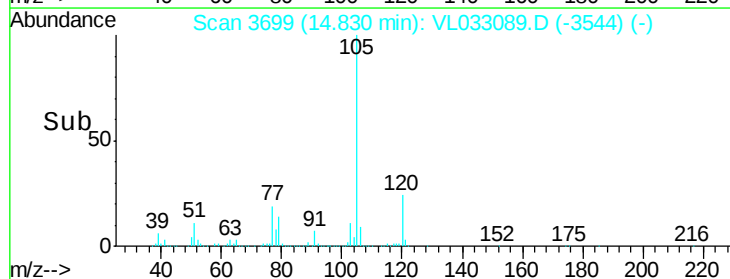
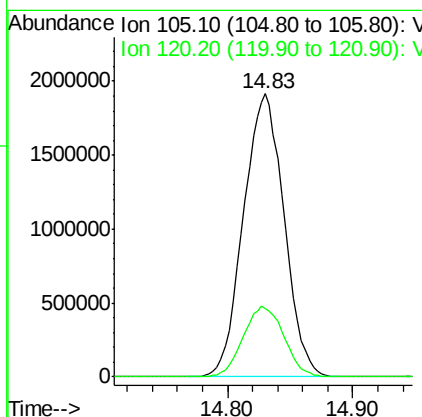
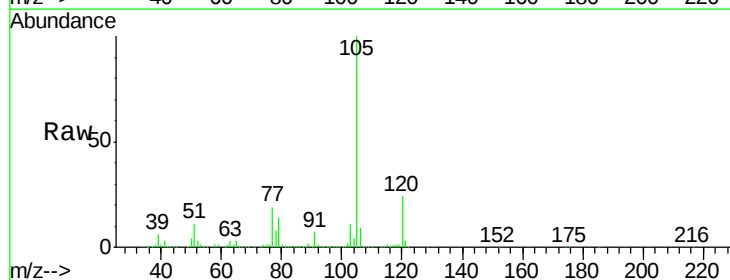
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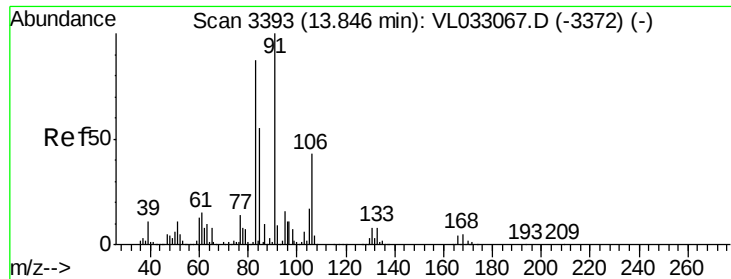
MMDadoda
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#62
Isopropylbenzene
Concen: 9.290 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.4	30.6





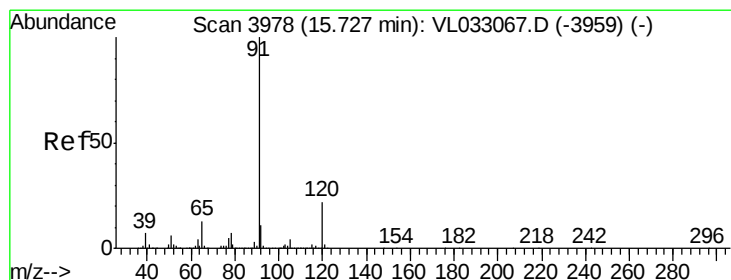
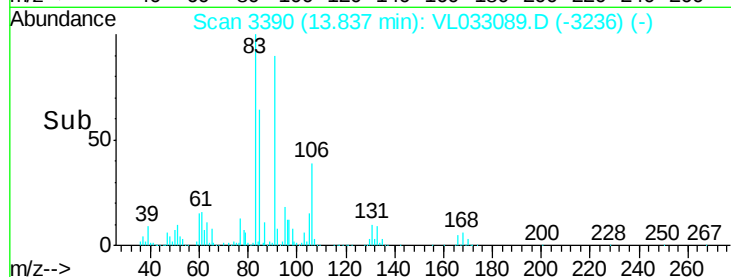
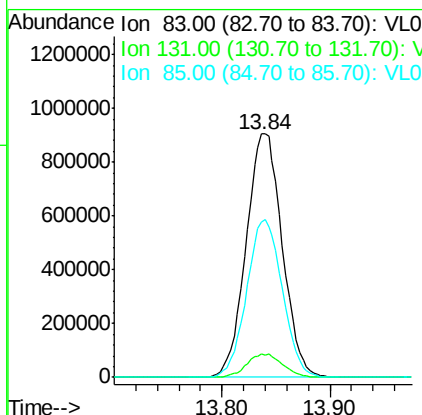
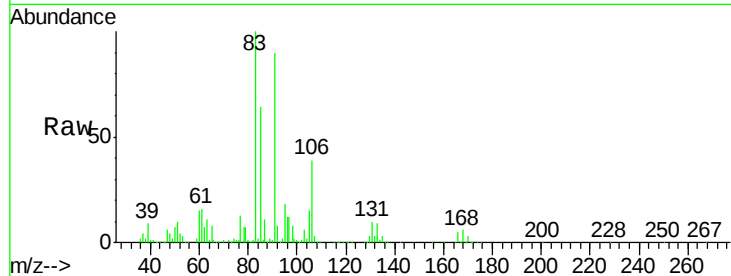
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.703 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.2	32.6	97.8

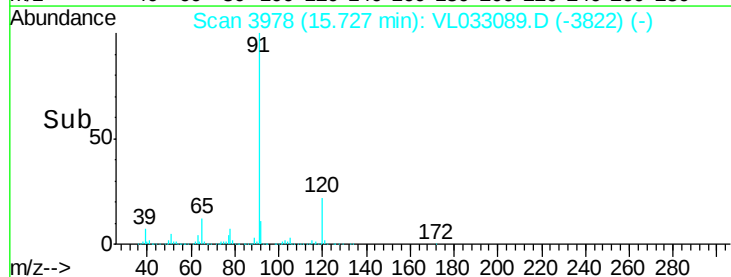
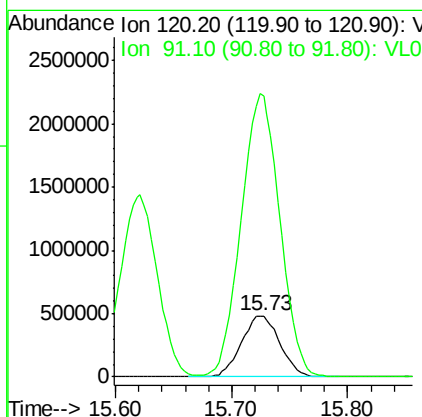
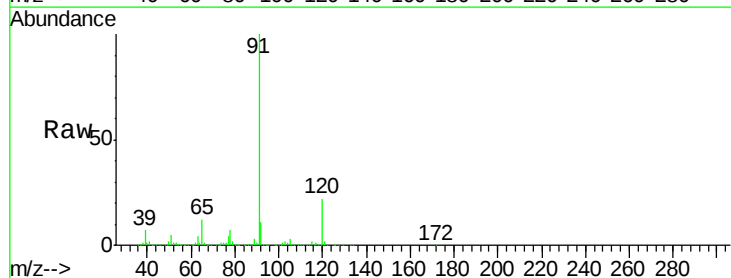
Manual Integrations
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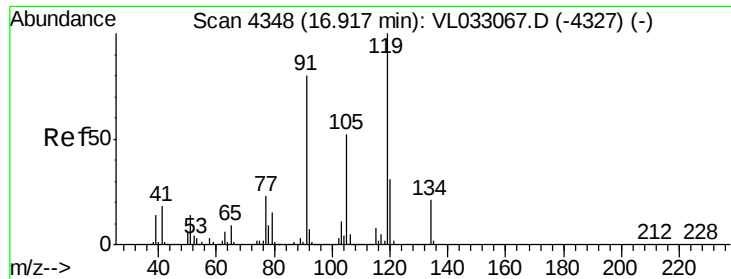
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#64
 n-propylbenzene
 Concen: 9.400 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
120	100		
91	468.7	378.7	568.1





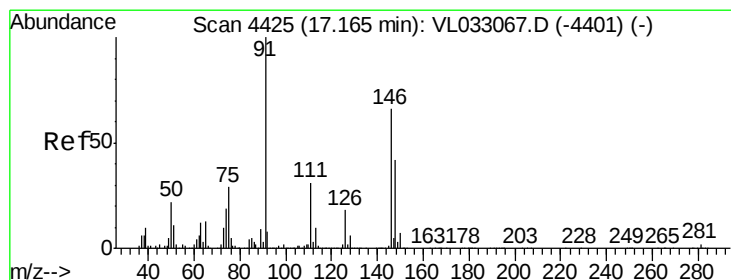
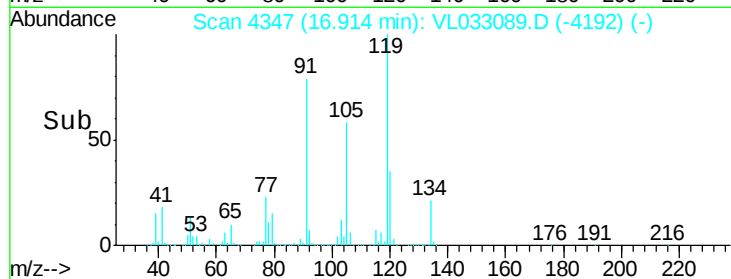
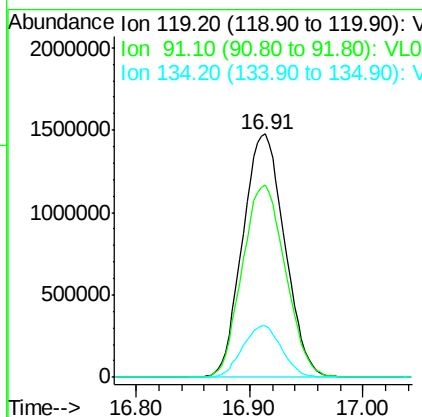
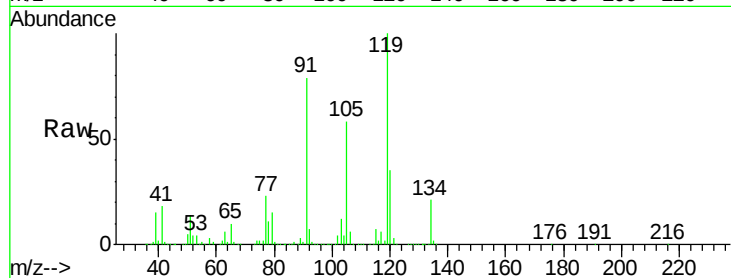
#65
tert-Butylbenzene
Concen: 9.282 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion: 119 Resp: 3810278
Ion Ratio Lower Upper
119 100
91 81.3 64.6 97.0
134 19.8 15.8 23.8

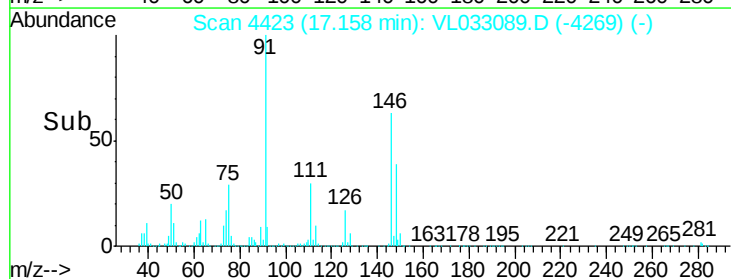
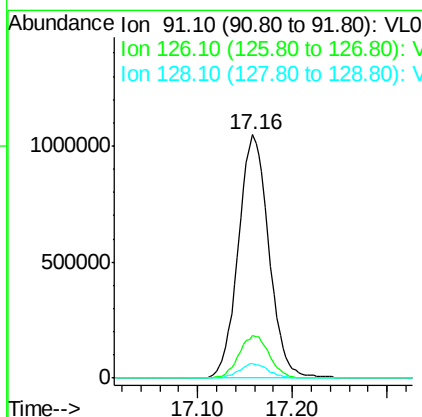
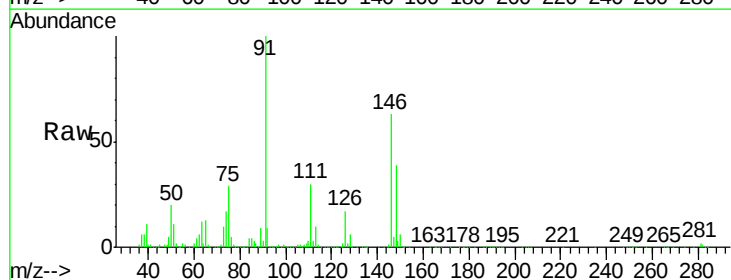
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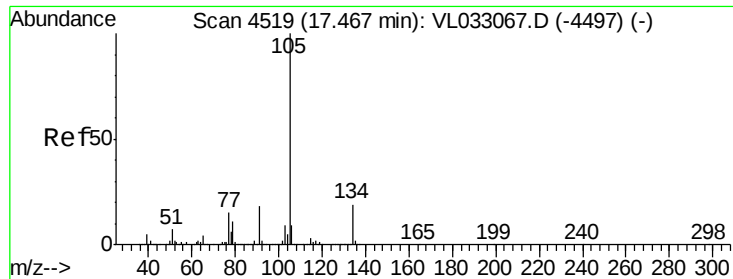
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#66
Benzyl Chloride
Concen: 10.027 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion: 91 Resp: 2345984
Ion Ratio Lower Upper
91 100
126 17.6 14.4 21.6
128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.067 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion:105 Resp: 5326522

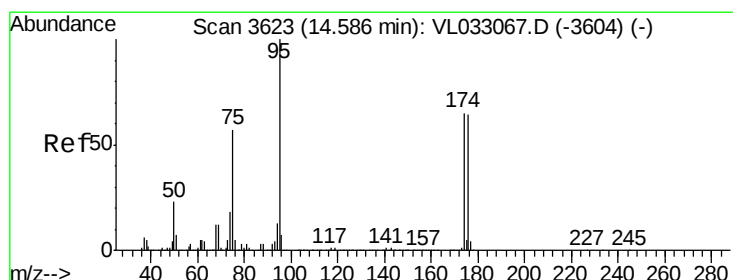
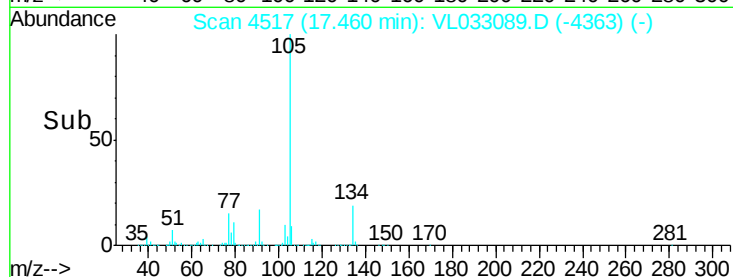
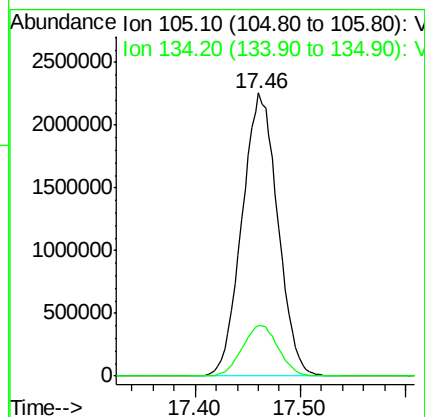
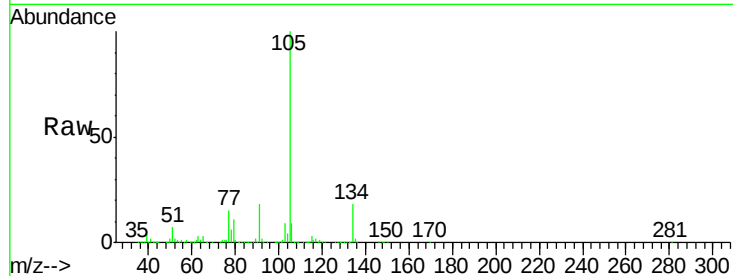
Ion Ratio Lower Upper

105 100

134 18.2 14.6 21.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.636 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

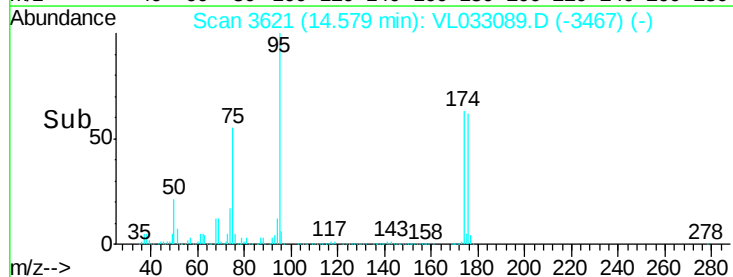
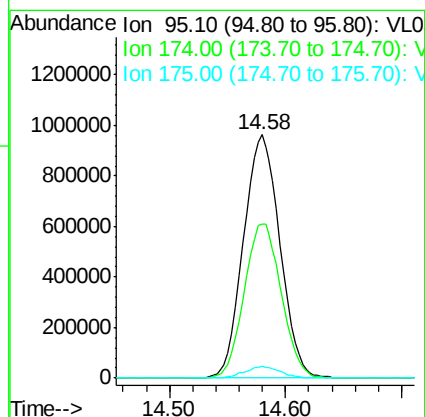
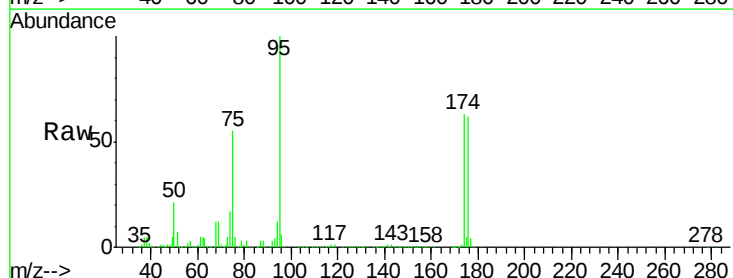
Tgt Ion: 95 Resp: 2103598

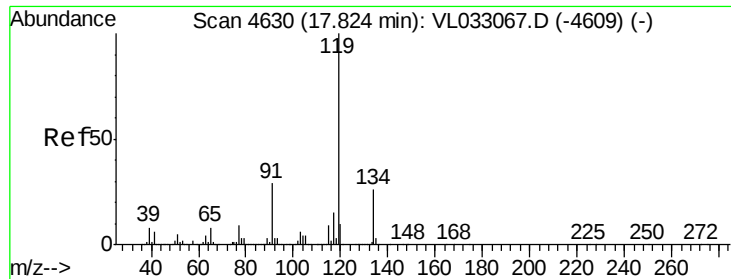
Ion Ratio Lower Upper

95 100

174 64.8 51.9 77.9

175 4.7 3.9 5.9





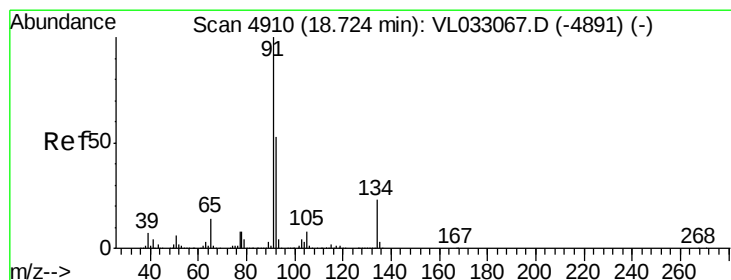
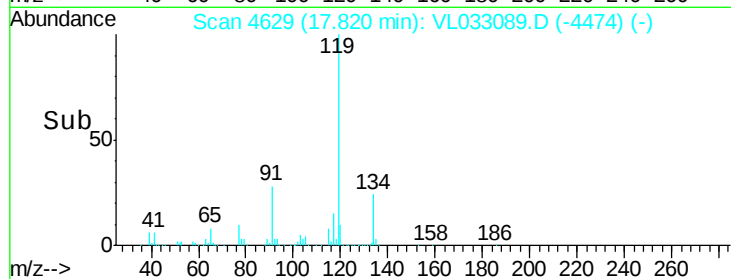
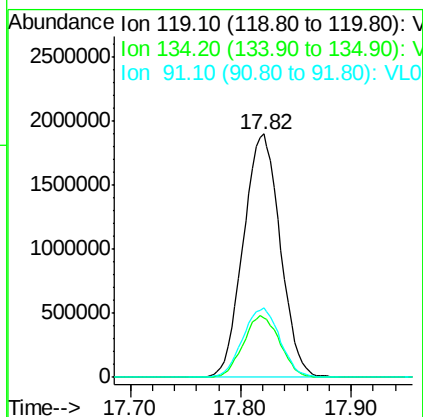
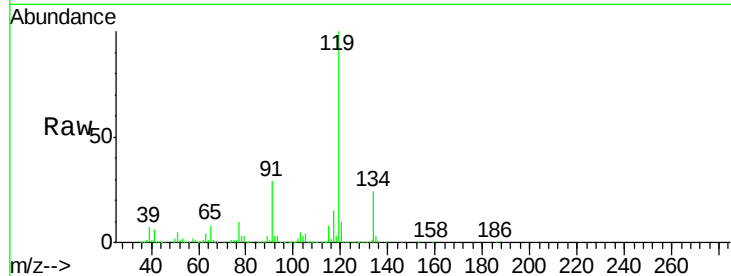
#69
 p-Isopropyltoluene
 Concen: 9.242 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	28.8	23.0	34.4

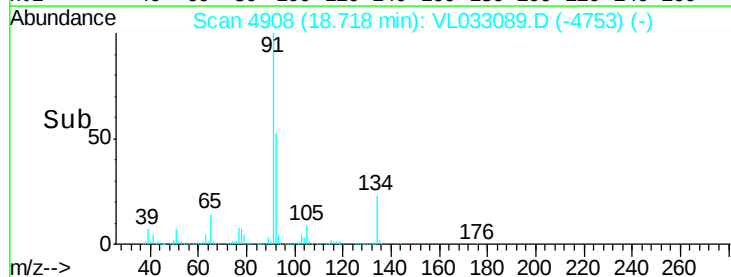
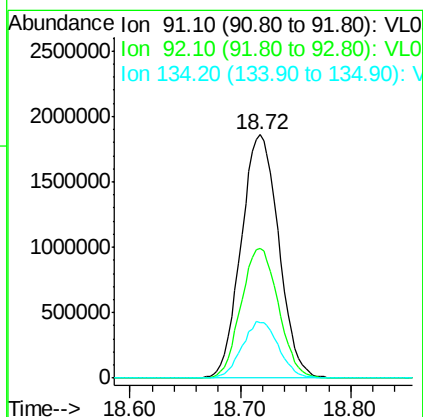
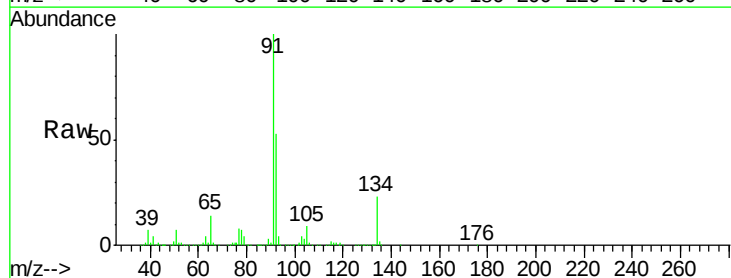
Manual Integrations
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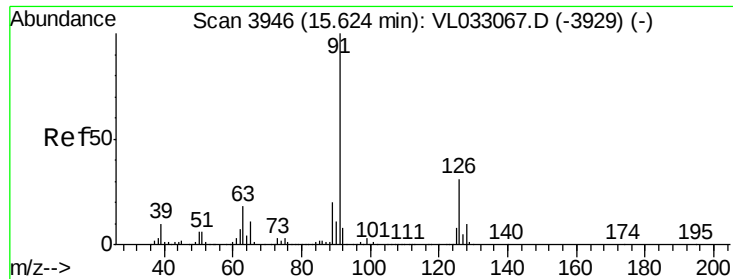
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#70
 n-Butylbenzene
 Concen: 9.161 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.4	63.6
134	22.7	18.0	27.0





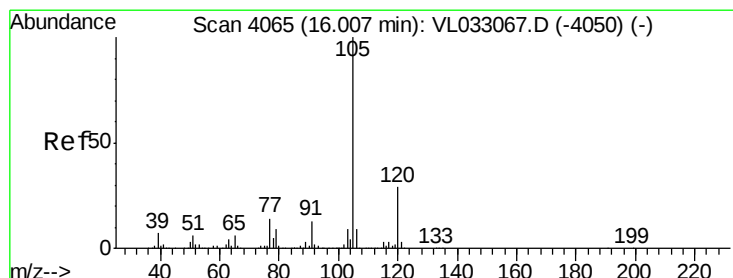
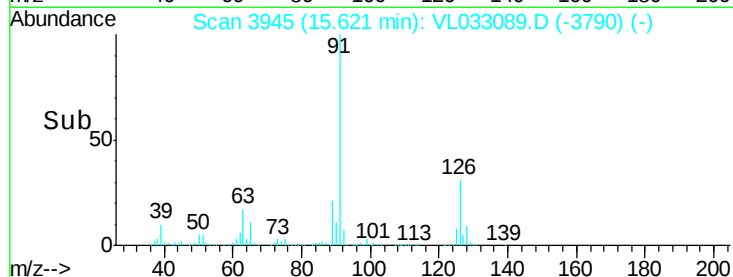
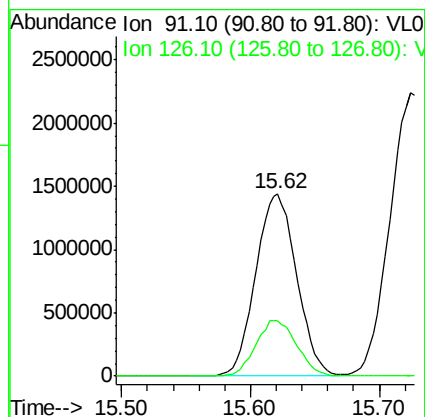
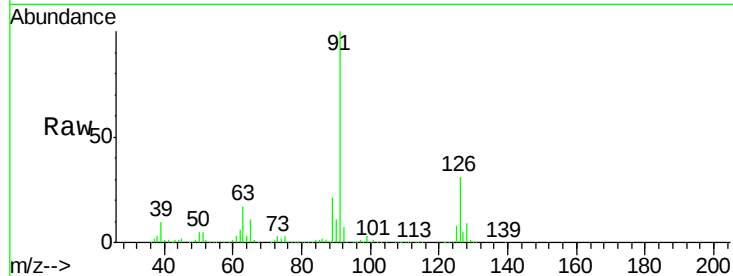
#71
2-Chlorotoluene
Concen: 9.681 ppbv
RT: 15.62 min Scan# 3945
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Instrument :
MSVOA_L
ClientSampleId :
VL0116ABS01

Tot Ion: 91 Resp: 3181636
Ion Ratio Lower Upper
91 100
126 30.7 12.4 49.6

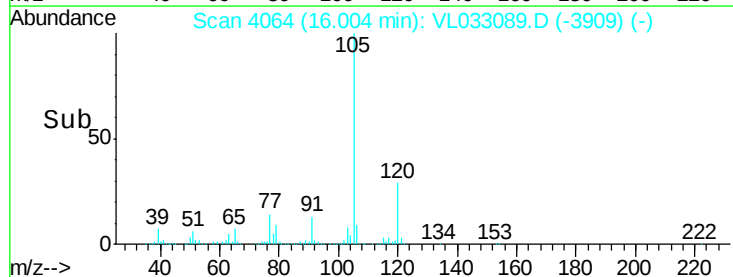
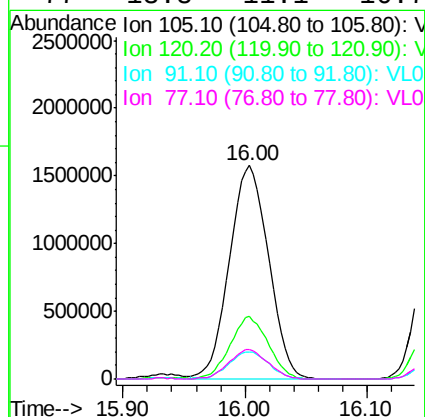
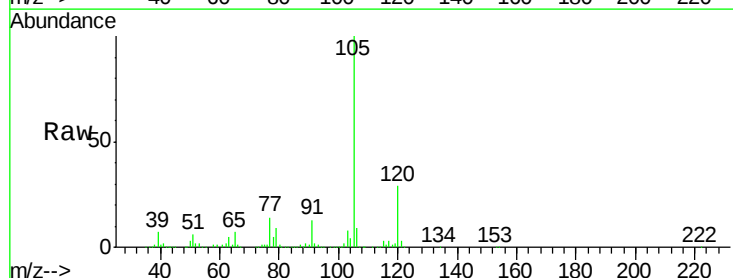
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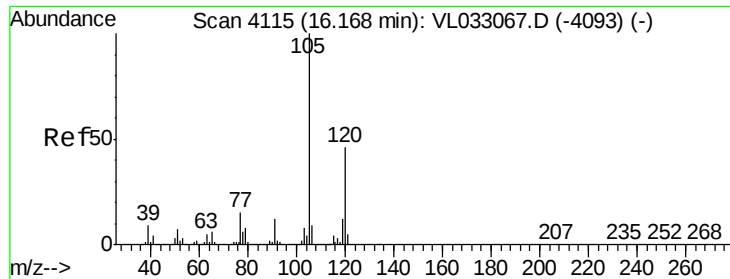
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#72
4-Ethyltoluene
Concen: 9.824 ppbv
RT: 16.00 min Scan# 4064
Delta R.T. -0.00 min
Lab File: VL033089.D
Acq: 16 Jan 2019 11:49

Tgt Ion: 105 Resp: 3515557
Ion Ratio Lower Upper
105 100
120 28.6 23.0 34.6
91 13.0 10.3 15.5
77 13.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.463 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion:105 Resp: 3341387

Ion Ratio Lower Upper

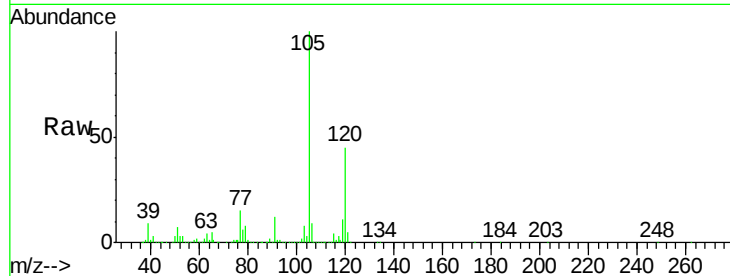
105 100

120 45.4 36.1 54.1

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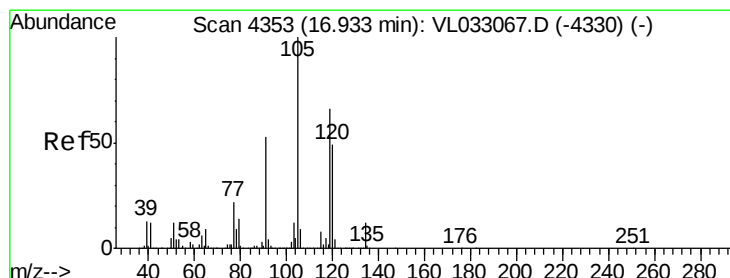
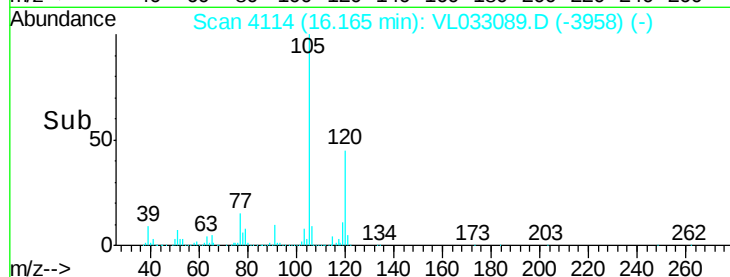
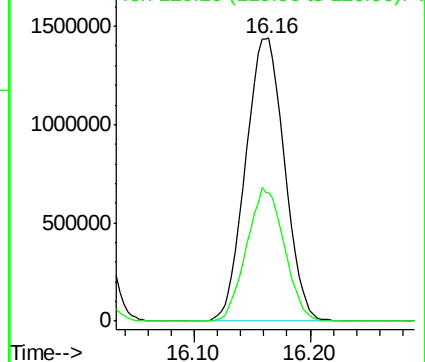
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.912 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Tgt Ion:105 Resp: 3484927

Ion Ratio Lower Upper

105 100

120 47.6 37.0 55.4

91 48.3 35.4 53.0

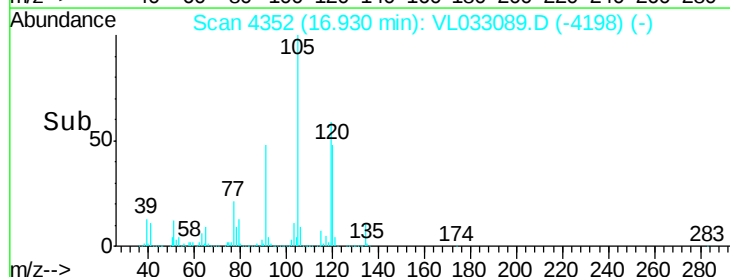
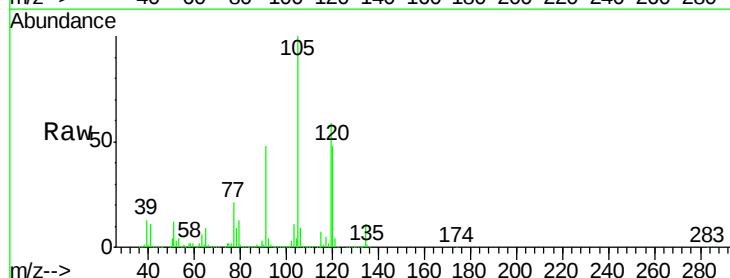
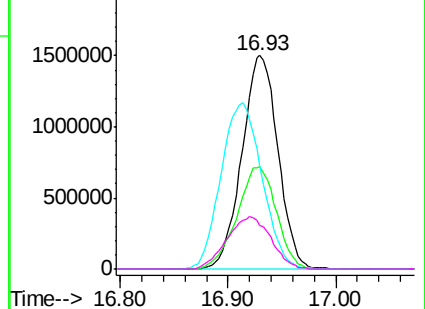
77 20.6 17.1 25.7

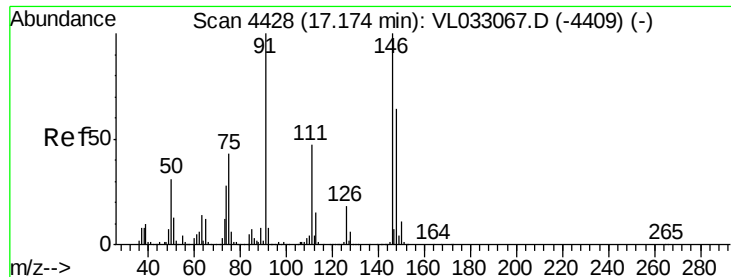
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.370 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampled :

VL0116ABS01

Tot Ion:146 Resp: 1926726

Ion Ratio Lower Upper

146 100

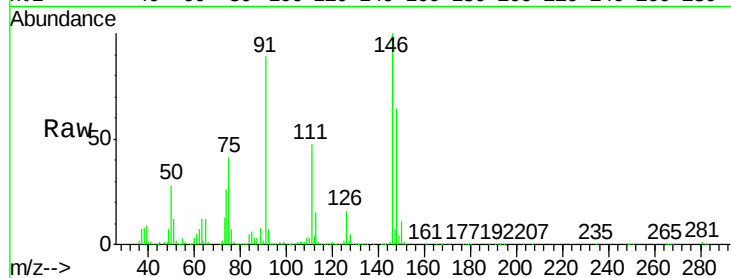
111 47.2 23.4 70.2

148 64.6 32.1 96.3

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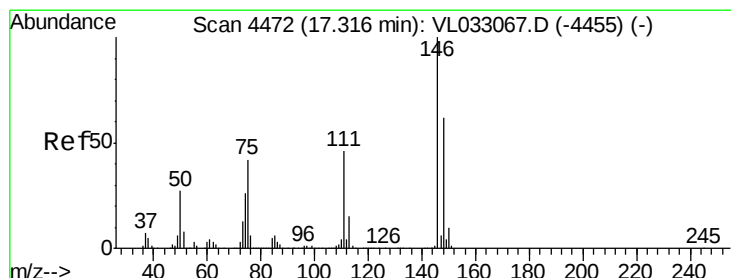
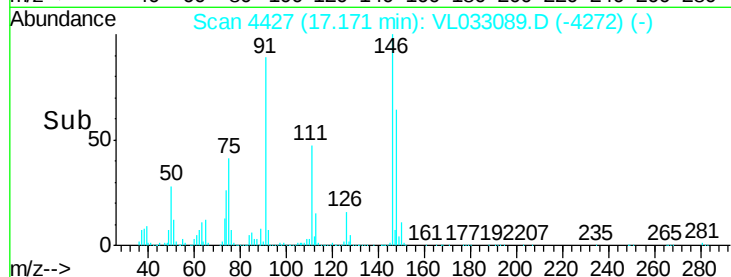
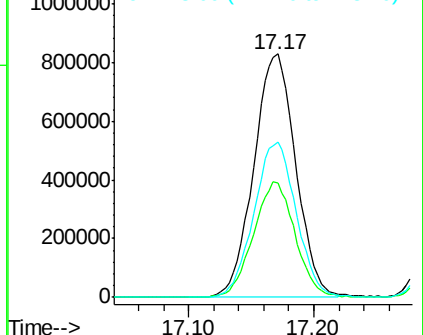
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.911 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

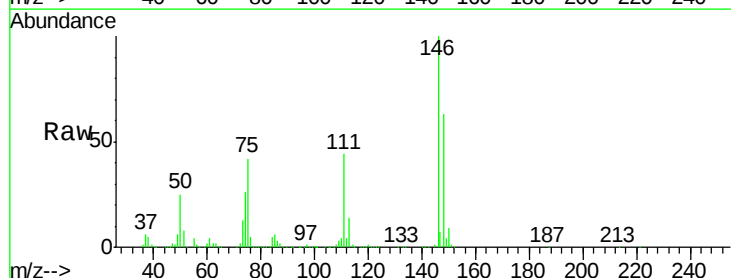
Tgt Ion:146 Resp: 1868557

Ion Ratio Lower Upper

146 100

111 45.9 22.7 68.1

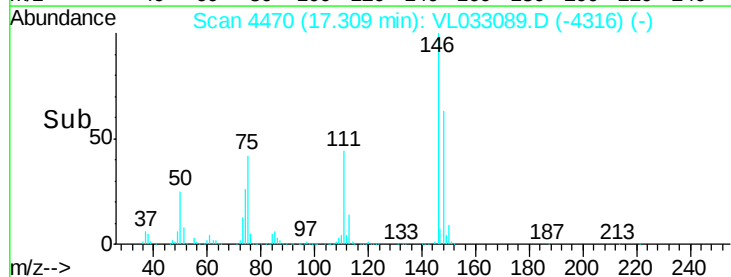
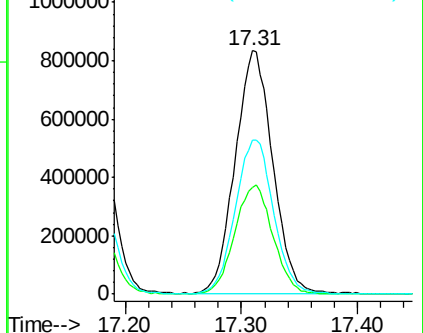
148 65.2 32.4 97.2

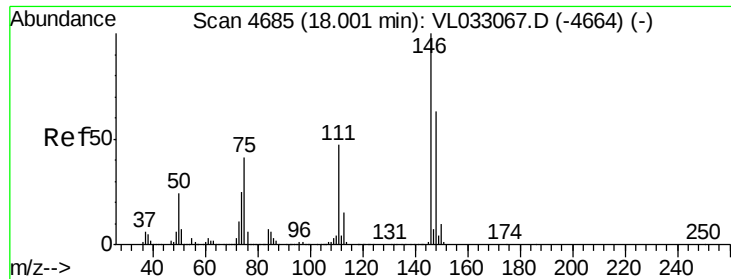


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





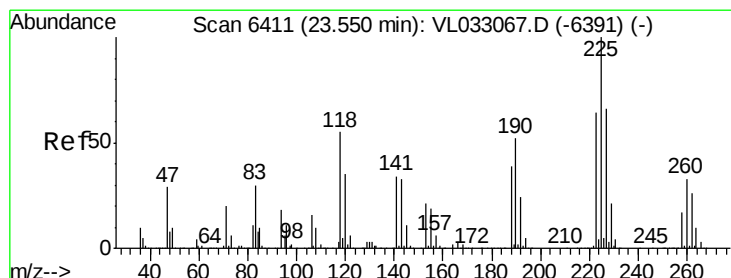
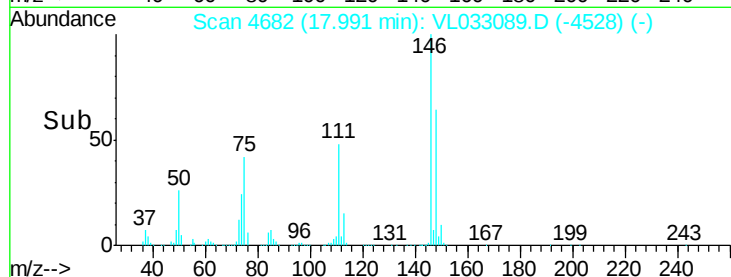
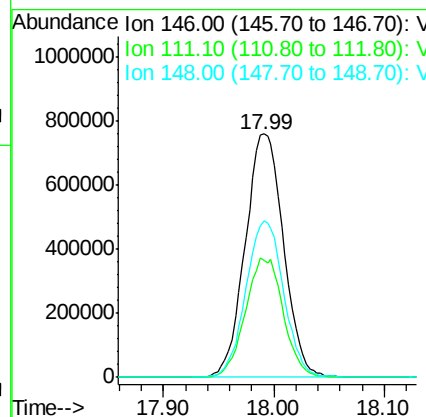
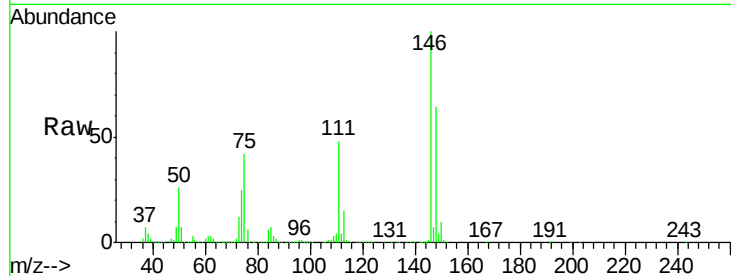
#77
 1,2-Dichlorobenzene
 Concen: 8.796 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion:146 Resp: 1823433
 Ion Ratio Lower Upper
 146 100
 111 48.5 24.4 73.2
 148 63.8 32.3 96.9

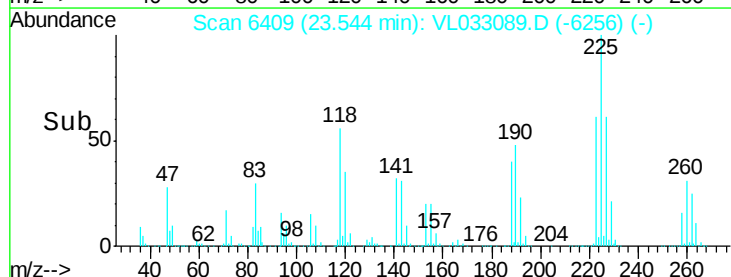
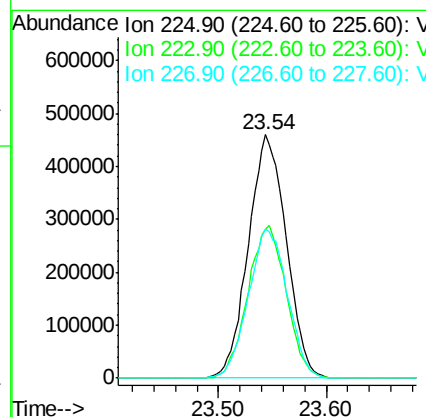
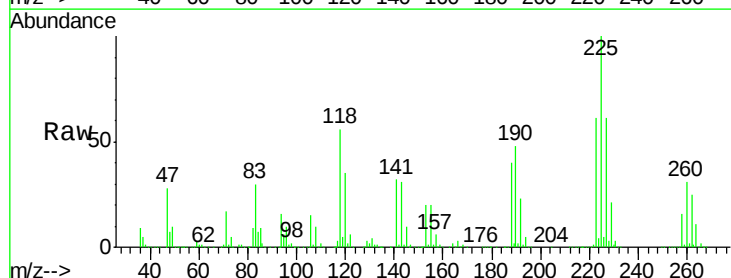
Manual Integrations
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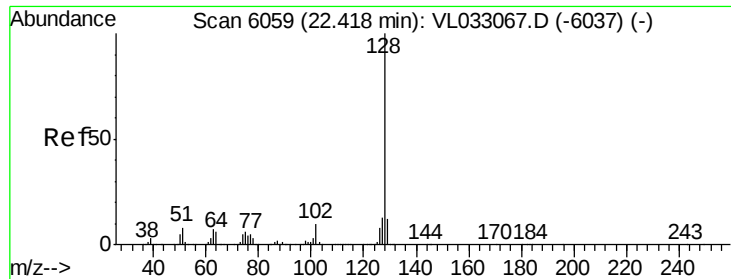
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.057 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.01 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Tgt Ion:225 Resp: 1123622
 Ion Ratio Lower Upper
 225 100
 223 63.1 51.0 76.6
 227 63.0 51.0 76.4





#79

Naphthalene

Concen: 9.948 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.01 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

Instrument :

MSVOA_L

ClientSampleId :

VL0116ABS01

Tot Ion:128 Resp: 3276600

Ion Ratio Lower Upper

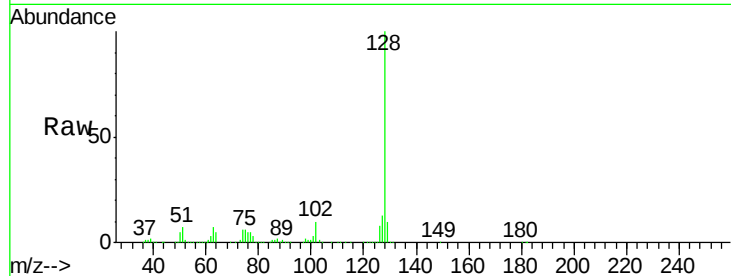
128 100

127 13.1 11.0 16.6

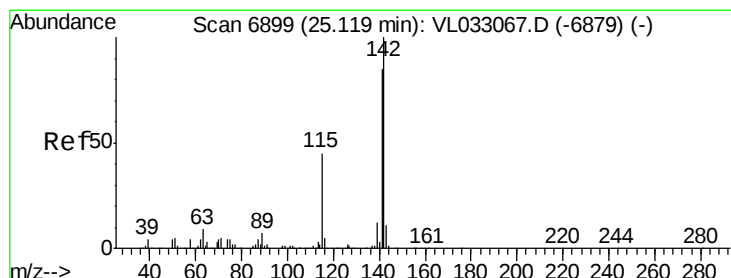
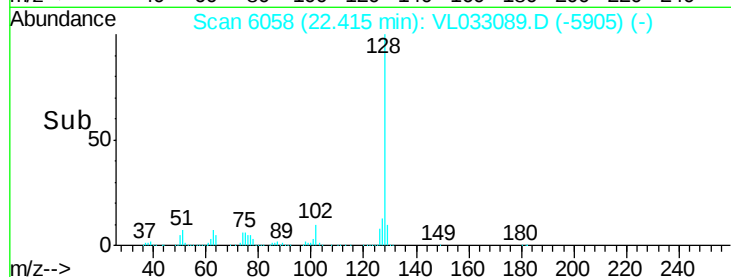
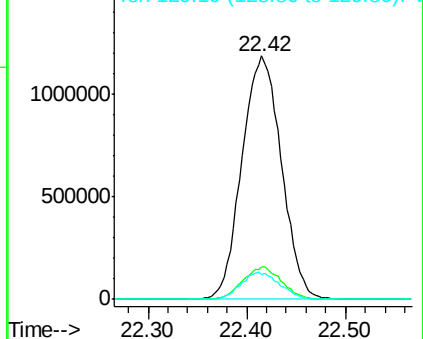
129 10.4 9.4 14.0

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



#80

Naphthalene, 2-methyl-

Concen: 11.625 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033089.D

Acq: 16 Jan 2019 11:49

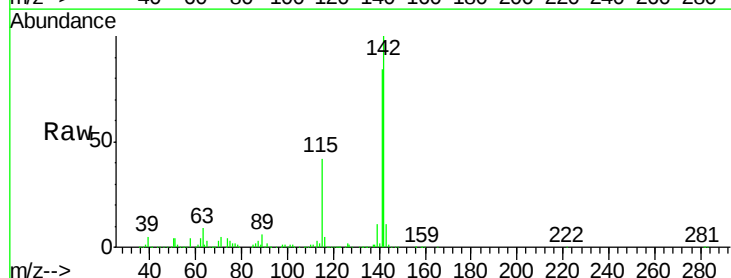
Tgt Ion:142 Resp: 1162008

Ion Ratio Lower Upper

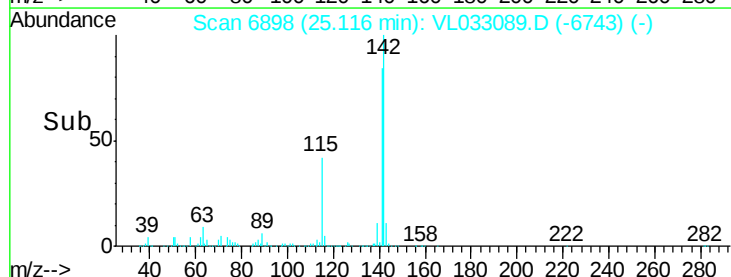
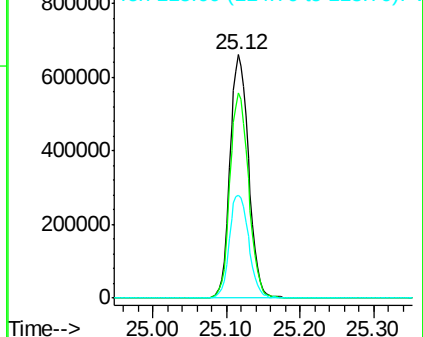
142 100

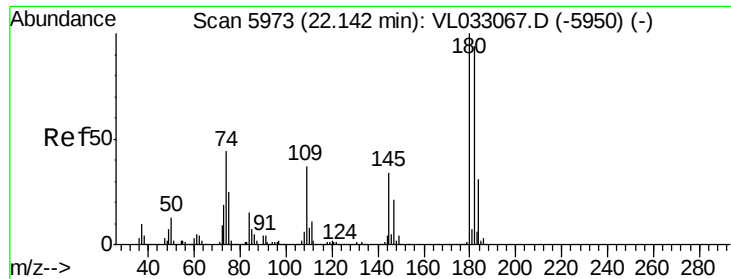
141 84.5 68.6 103.0

115 44.3 35.6 53.4



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





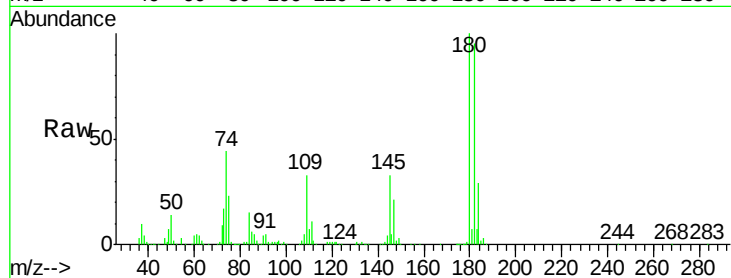
#81
 1,2,4-Trichlorobenzene
 Concen: 9.711 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033089.D
 Acq: 16 Jan 2019 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.1	114.1
184	30.2	24.6	37.0

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

