

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032633.D
 Acq On : 17 Oct 2018 6:37
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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 10/19/2018 4:36:30 PM

Quant Time: Oct 17 07:38:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
 QLast Update : Wed Oct 17 05:31:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1162097	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.32	114	2754667	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3190992	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2171787	8.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	1295298	8.83	ppbv	99
3) Chlorodifluoromethane	3.03	51	1340970	13.83	ppbv	98
4) Chloromethane	3.18	50	751398	14.07	ppbv	97
5) Vinyl Chloride	3.31	62	774775	14.50	ppbv	99
6) Bromomethane	3.53	94	505418	15.04	ppbv	91
7) Chloroethane	3.62	64	310826	14.81	ppbv	97
8) Dichlorotetrafluoroethane	3.24	85	1783140	13.60	ppbv	99
9) Propene	3.05	41	534309	14.76	ppbv	99
10) Heptane	8.27	43	2318150	17.59	ppbv	97
11) Trichlorofluoromethane	4.02	101	2074242	14.50	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1560711	14.66	ppbv	100
13) Ethanol	3.67	45	136973	13.52	ppbv	98
14) Bromoethene	3.80	108	629248	15.83	ppbv	100
15) Acetone	3.92	43	1472716	14.45	ppbv	99
16) 1,3-Butadiene	3.38	39	595974	14.63	ppbv	96
17) tert-Butyl alcohol	4.37	59	143482	17.21	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	768664	16.20	ppbv	98
19) Isopropyl Alcohol	4.04	45	1031113	15.59	ppbv	100
20) Methylene Chloride	4.43	84	636538	13.61	ppbv	92
21) Allyl Chloride	4.50	41	1244035	16.03	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	878738	15.93	ppbv	95
23) Vinyl Acetate	5.17	43	2858733	17.80	ppbv	98
24) 1,1-Dichloroethane	5.11	63	2288000	16.11	ppbv	100
25) Ethyl Acetate	5.79	43	3651861	15.41	ppbv	99
26) Hexane	5.80	57	1680388	15.52	ppbv	98
27) Carbon Disulfide	4.64	76	2011416	15.53	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2315190	18.10	ppbv	99
29) Chloroform	5.87	83	2738795	14.80	ppbv	98
30) Cyclohexane	7.27	84	1520261	17.87	ppbv	98
31) cis-1,2-Dichloroethene	5.66	61	1836473	17.88	ppbv	98
32) 1,1,1-Trichloroethane	6.64	97	2856315	15.96	ppbv	99
34) 2-Butanone	5.35	43	2326824	16.38	ppbv	99
35) Carbon Tetrachloride	7.16	117	3011635	15.22	ppbv	99
36) Benzene	7.03	78	3616935	16.60	ppbv	99
37) 1,2-Dichloroethane	6.43	62	2320405	15.99	ppbv	100
38) Trichloroethene	7.98	130	1374162	17.13	ppbv	98
39) 1,2-Dichloropropane	7.76	63	1424987	15.98	ppbv	100
40) 1,4-Dioxane	7.98	88	438523	14.93	ppbv #	87
41) Tetrahydrofuran	6.17	42	1411402	17.81	ppbv	98
42) Bromodichloromethane	7.94	83	3180612	15.65	ppbv	98
43) Methyl Methacrylate	8.16	69	1562803	18.46	ppbv	99

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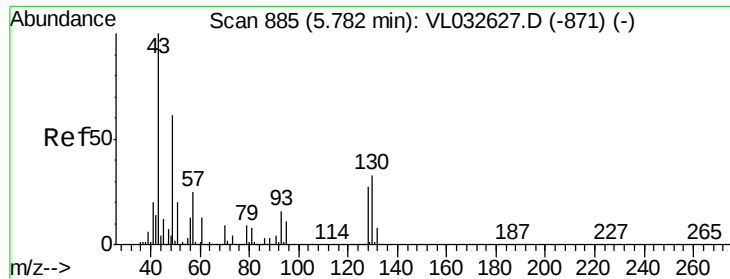
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	6288577	16.21	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	2228272	20.90	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	2418752	19.91	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1671630	15.81	ppbv	99
48) Dibromochloromethane	10.48	129	2940519	16.71	ppbv	99
49) Bromoform	13.23	173	2230505	16.62	ppbv	100
50) 4-Methyl-2-Pentanone	8.89	43	3814769	17.48	ppbv	100
51) 2-Hexanone	10.30	43	3349001	19.62	ppbv	99
52) Tetrachloroethene	11.40	164	1214764	17.32	ppbv	99
53) Toluene	9.97	91	4657051	18.73	ppbv	100
54) 1,2-Dibromoethane	10.79	107	2589992	17.47	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	1917471	13.29	ppbv	99
57) Chlorobenzene	12.33	112	3243323	13.41	ppbv	99
58) Ethyl Benzene	12.89	91	5842931	16.64	ppbv	99
59) m/p-Xylene	13.18	91	9696067m	30.44	ppbv	
60) o-Xylene	13.88	91	4751845	15.12	ppbv	100
61) Styrene	13.71	104	3450031	17.88	ppbv	99
62) Isopropylbenzene	14.85	105	6706470	14.98	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.87	83	3564327	13.03	ppbv	100
64) n-propylbenzene	15.75	120	1746571	15.47	ppbv	96
65) tert-Butylbenzene	16.93	119	5634097	14.86	ppbv	100
66) Benzyl Chloride	17.18	91	3478475	16.64	ppbv	99
67) sec-Butylbenzene	17.48	105	8299133	14.67	ppbv	99
69) p-Isopropyltoluene	17.84	119	6652523	15.33	ppbv	100
70) n-Butylbenzene	18.74	91	7236481	15.30	ppbv	99
71) 2-Chlorotoluene	15.64	91	5271127	16.01	ppbv	100
72) 4-Ethyltoluene	16.03	105	5519805	16.27	ppbv	100
73) 1,3,5-Trimethylbenzene	16.18	105	5251320	15.56	ppbv	98
74) 1,2,4-Trimethylbenzene	16.96	105	5230402	14.05	ppbv	97
75) 1,3-Dichlorobenzene	17.19	146	2888938	13.35	ppbv	100
76) 1,4-Dichlorobenzene	17.33	146	2883110	14.77	ppbv	100
77) 1,2-Dichlorobenzene	18.01	146	2897207	14.26	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	1252041	12.71	ppbv	100
79) Naphthalene	22.44	128	4505134	17.95	ppbv	99
80) Naphthalene,2-methyl-	25.13	142	1273246	26.07	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	2121072	17.08	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 49 Resp: 1162097

Ion Ratio Lower Upper

49 100

128 46.3 22.3 66.8

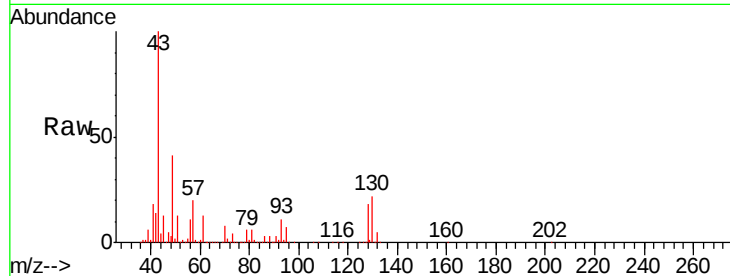
130 57.8 28.4 85.3

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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

5.78

800000

600000

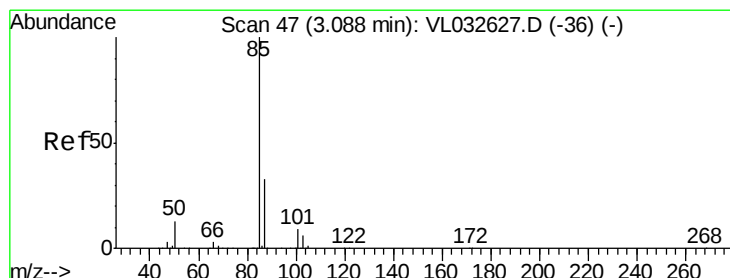
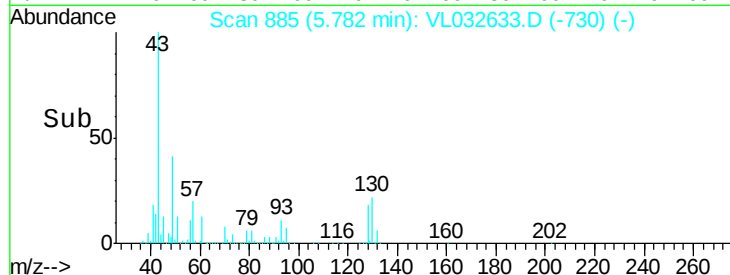
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 8.83 ppbv

RT: 3.09 min Scan# 48

Delta R.T. 0.00 min

Lab File: VL032633.D

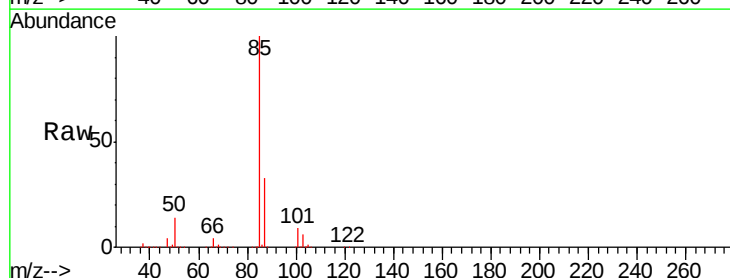
Acq: 17 Oct 2018 6:37

Tgt Ion: 85 Resp: 1295298

Ion Ratio Lower Upper

85 100

87 33.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1200000

1000000

800000

600000

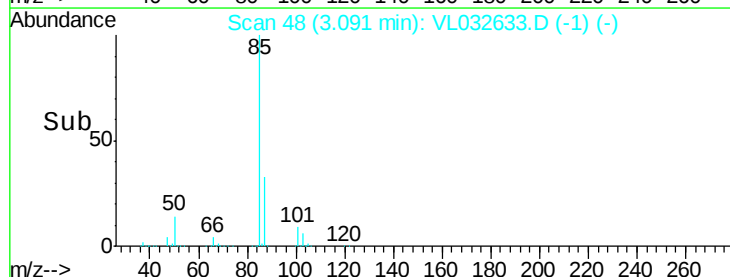
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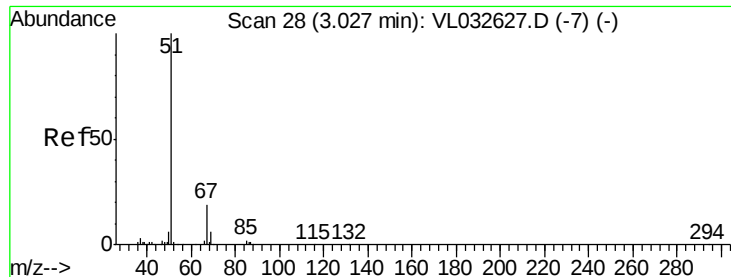
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3.05 3.10 3.15

Time-->





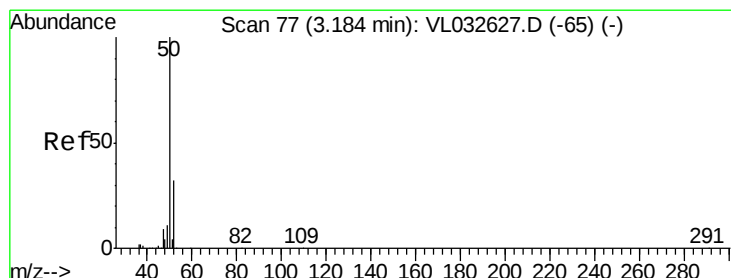
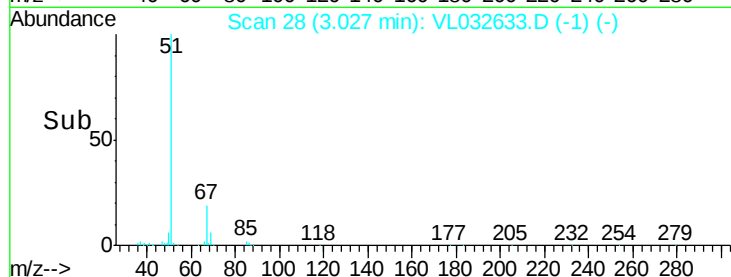
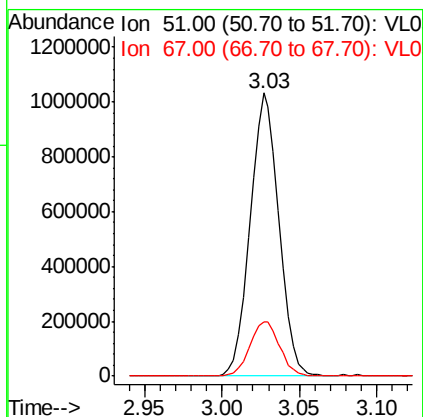
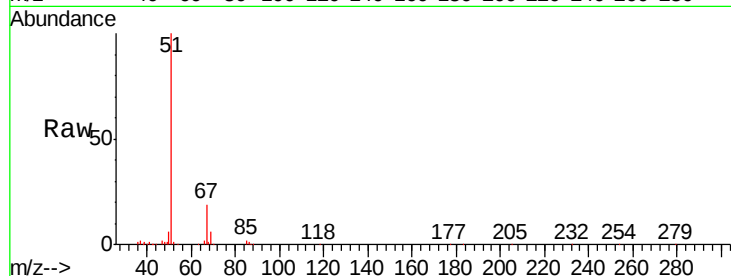
#3
Chlorodifluoromethane
Concen: 13.83 ppbv
RT: 3.03 min Scan# 28
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 51 Resp: 1340970
Ion Ratio Lower Upper
51 100
67 20.0 15.2 22.8

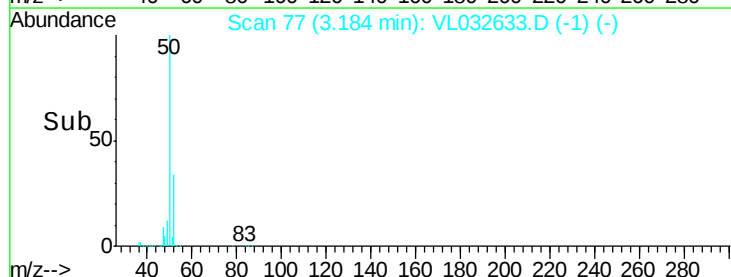
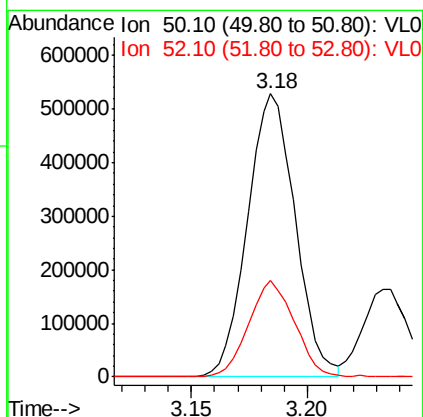
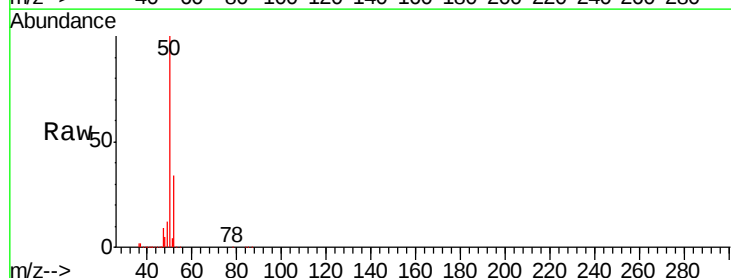
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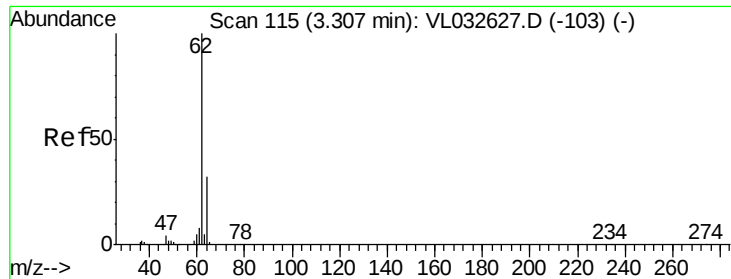
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#4
Chloromethane
Concen: 14.07 ppbv
RT: 3.18 min Scan# 77
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 50 Resp: 751398
Ion Ratio Lower Upper
50 100
52 34.3 25.9 38.9





#5

Vinyl Chloride

Concen: 14.50 ppbv

RT: 3.31 min Scan# 115

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 774775

Ion Ratio Lower Upper

62 100

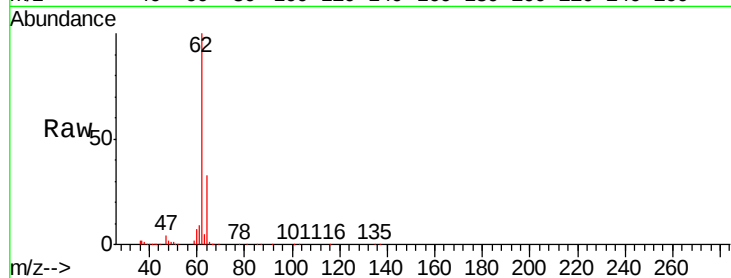
64 32.5 25.5 38.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.31

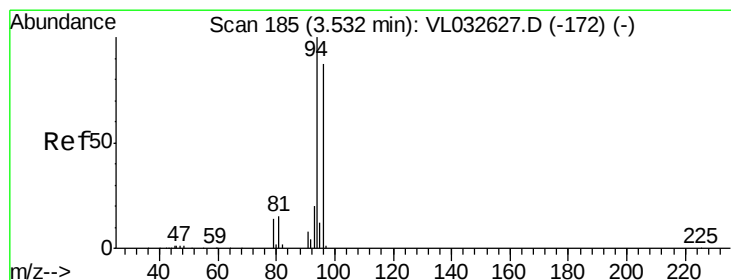
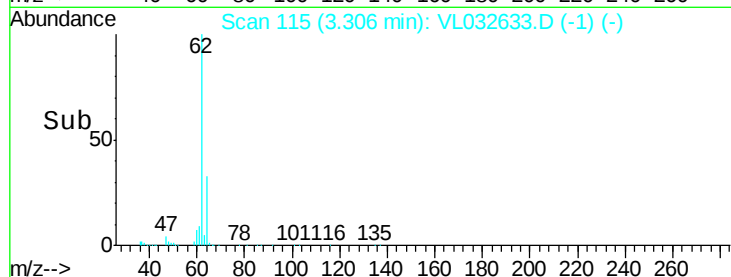
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 15.04 ppbv

RT: 3.53 min Scan# 184

Delta R.T. -0.00 min

Lab File: VL032633.D

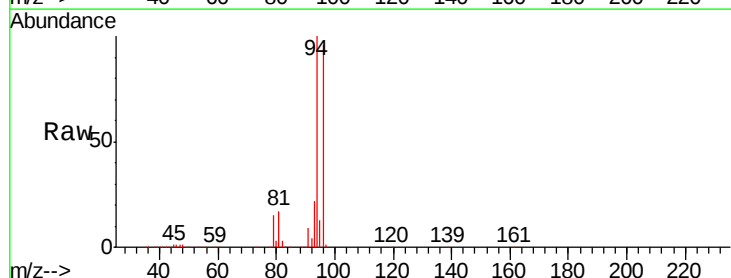
Acq: 17 Oct 2018 6:37

Tgt Ion: 94 Resp: 505418

Ion Ratio Lower Upper

94 100

96 95.9 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.53

400000

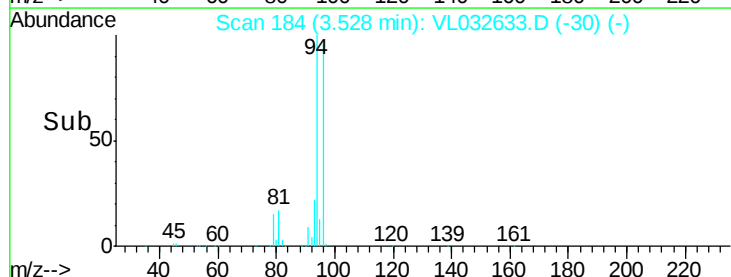
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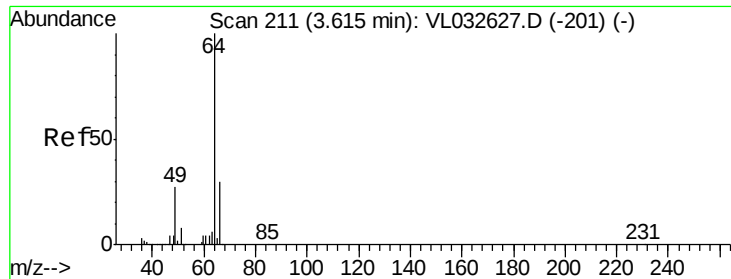
200000

100000

0

Time-->





#7

Chloroethane

Concen: 14.81 ppbv

RT: 3.62 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 64 Resp: 310826

Ion Ratio Lower Upper

64 100

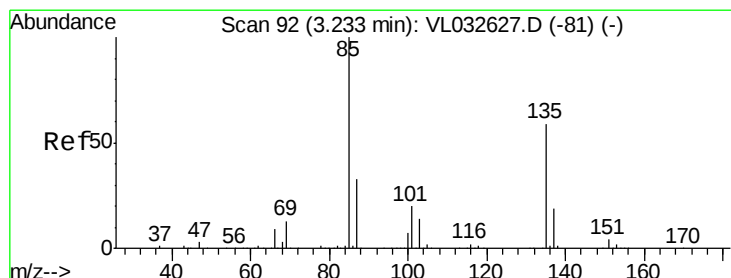
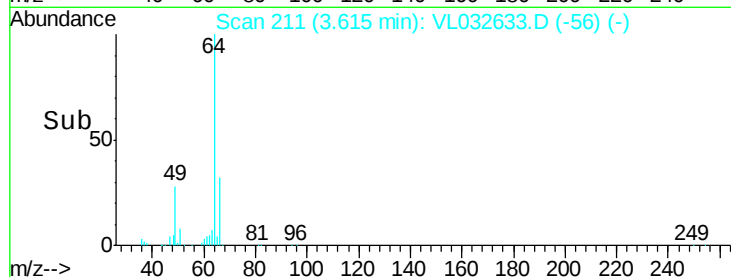
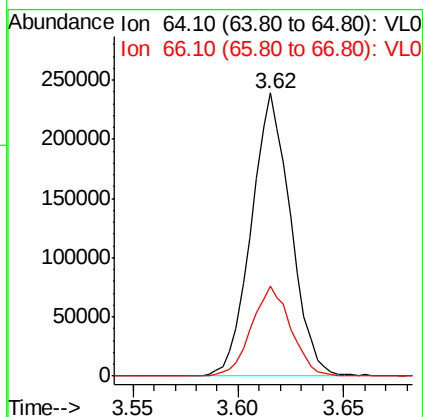
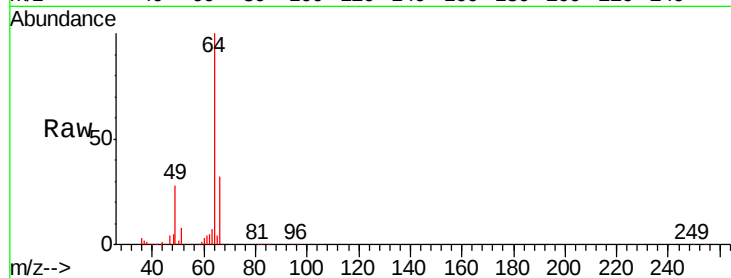
66 31.9 24.4 36.6

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#8

Dichlorotetrafluoroethane

Concen: 13.60 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.00 min

Lab File: VL032633.D

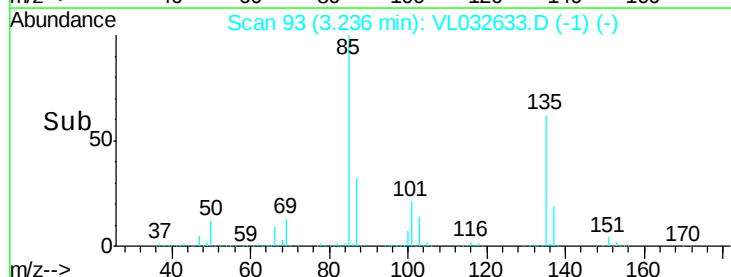
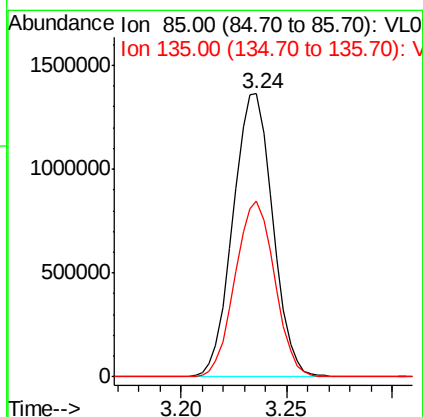
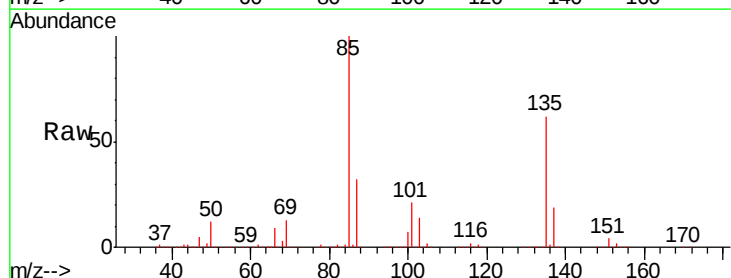
Acq: 17 Oct 2018 6:37

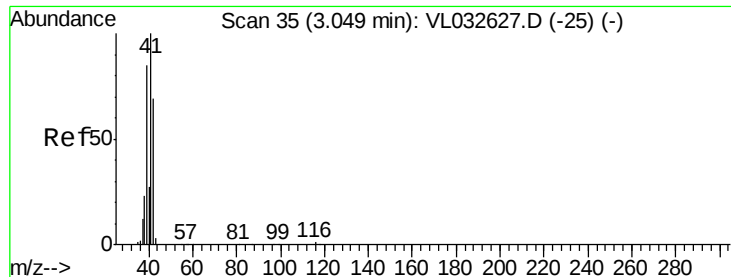
Tgt Ion: 85 Resp: 1783140

Ion Ratio Lower Upper

85 100

135 62.0 49.0 73.4





#9

Propene

Concen: 14.76 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

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ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 534309

Ion Ratio Lower Upper

41 100

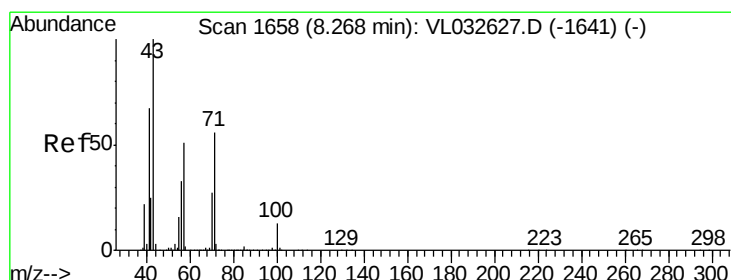
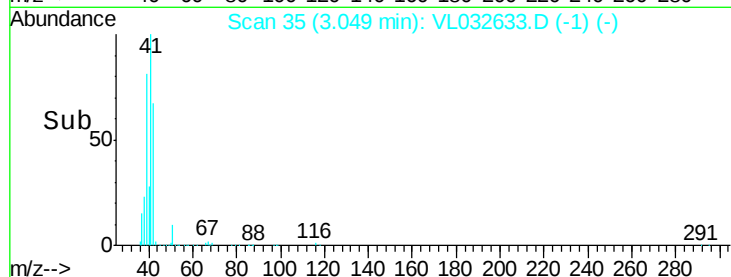
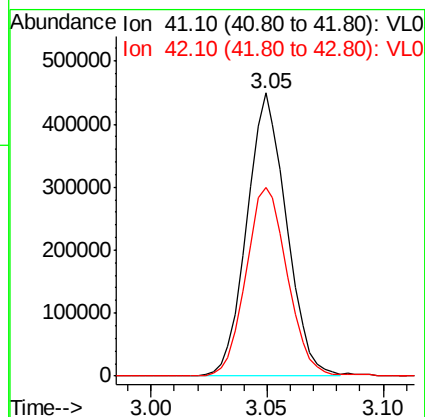
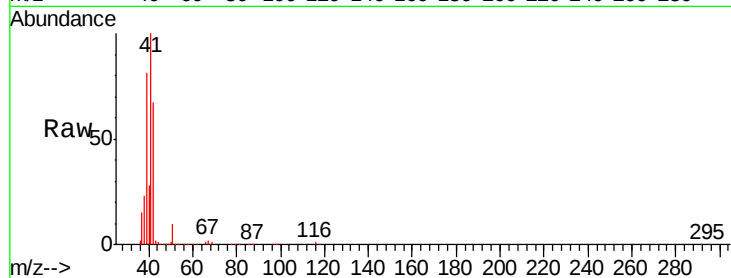
42 70.2 55.4 83.0

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#10

Heptane

Concen: 17.59 ppbv

RT: 8.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VL032633.D

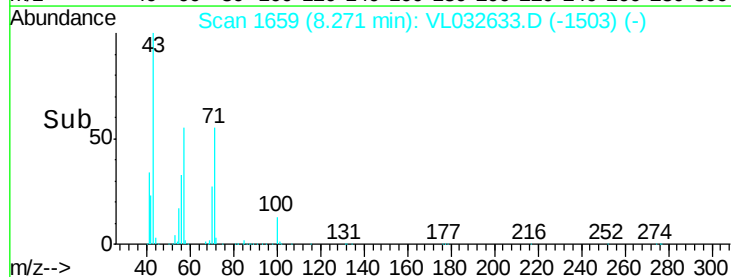
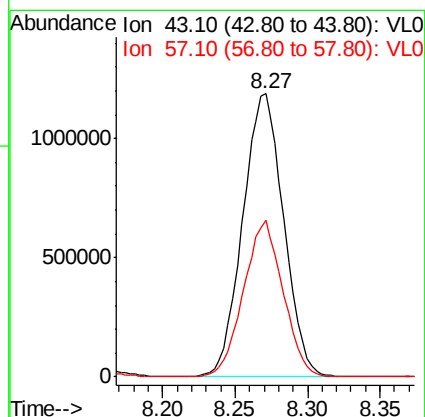
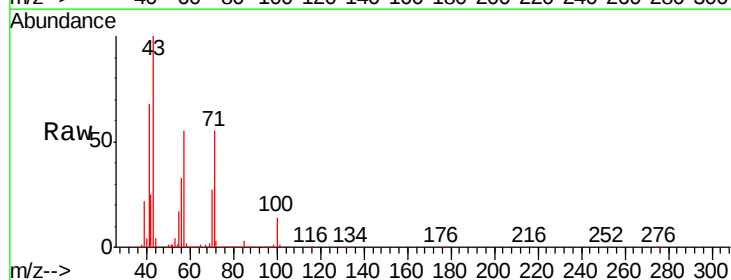
Acq: 17 Oct 2018 6:37

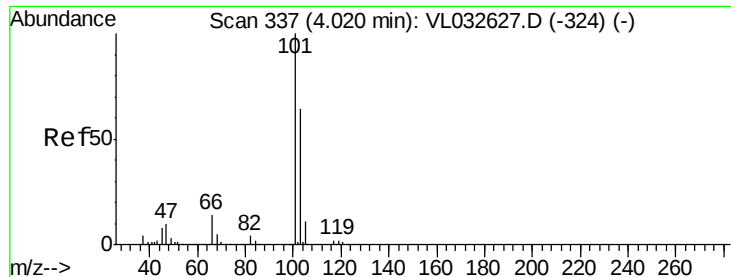
Tgt Ion: 43 Resp: 2318150

Ion Ratio Lower Upper

43 100

57 53.7 41.5 62.3





#11

Trichlorofluoromethane

Concen: 14.50 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

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Acq: 17 Oct 2018 6:37

Instrument :

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Tgt Ion:101 Resp: 2074242

Ion Ratio Lower Upper

101 100

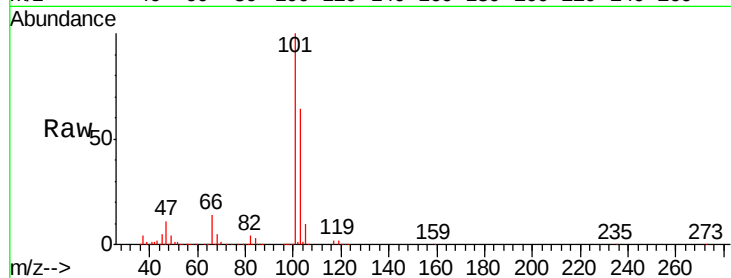
103 64.3 51.4 77.2

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

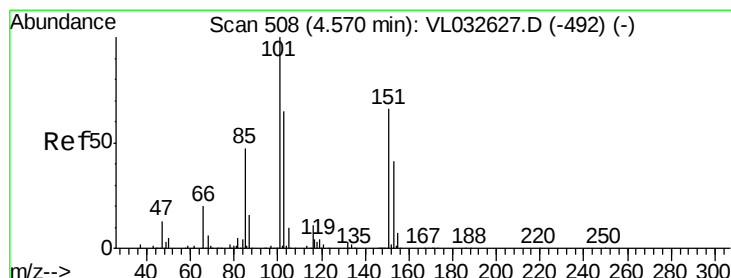
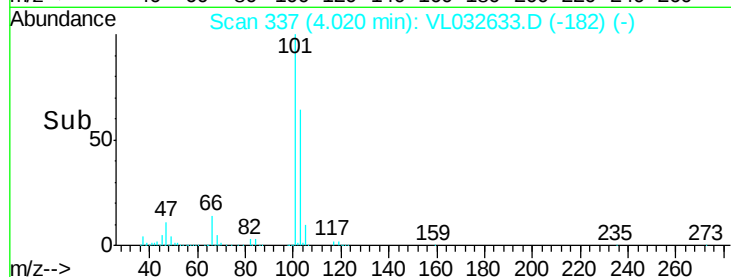
1500000

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.66 ppbv

RT: 4.57 min Scan# 508

Delta R.T. -0.00 min

Lab File: VL032633.D

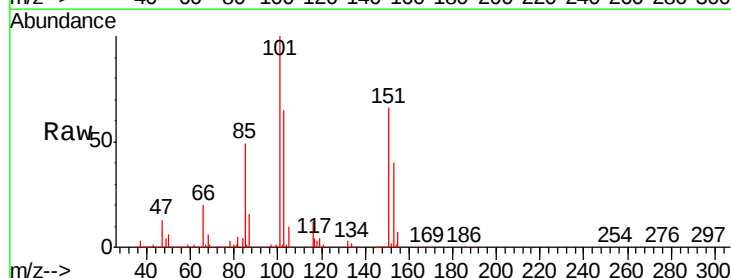
Acq: 17 Oct 2018 6:37

Tgt Ion:101 Resp: 1560711

Ion Ratio Lower Upper

101 100

151 65.1 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

1000000

800000

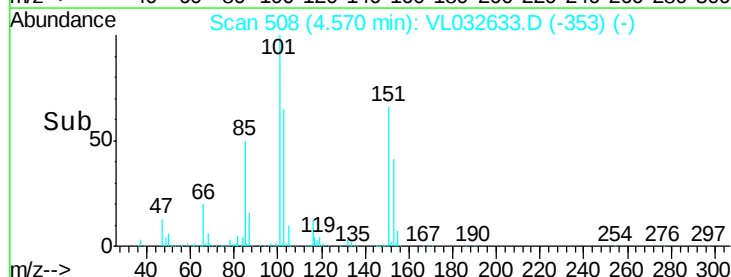
600000

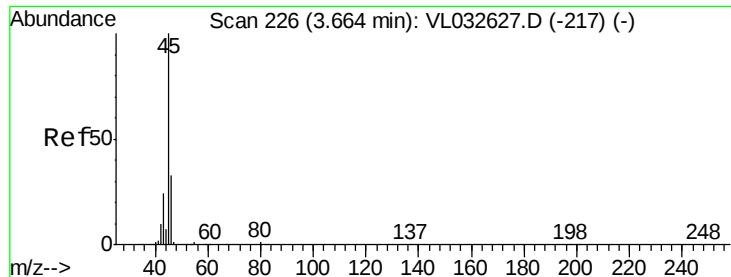
400000

200000

0

Time-->





#13

Ethanol

Concen: 13.52 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 45 Resp: 136973

Ion Ratio Lower Upper

45 100

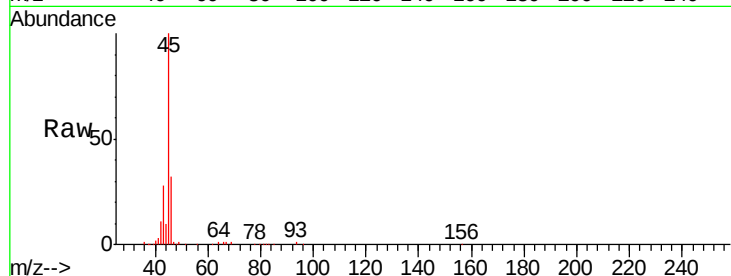
46 37.1 15.4 61.8

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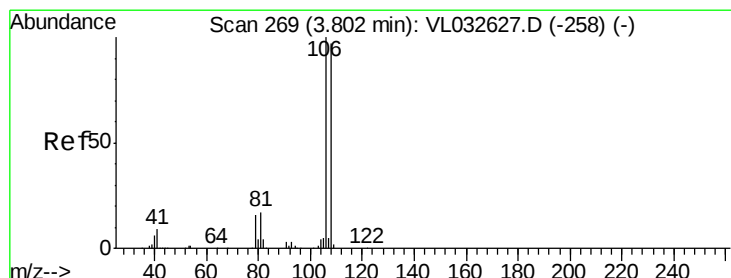
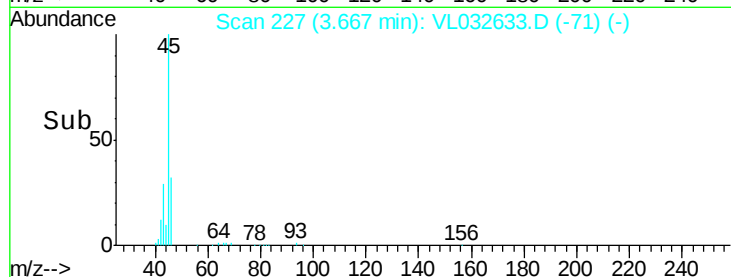
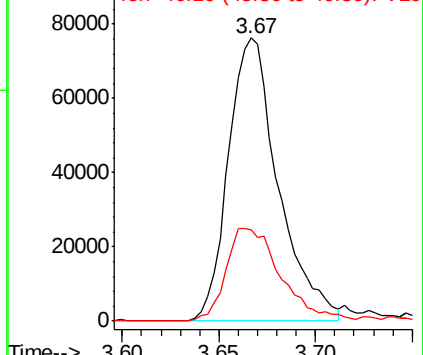
MMDadoda

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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: 15.83 ppbv

RT: 3.80 min Scan# 269

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

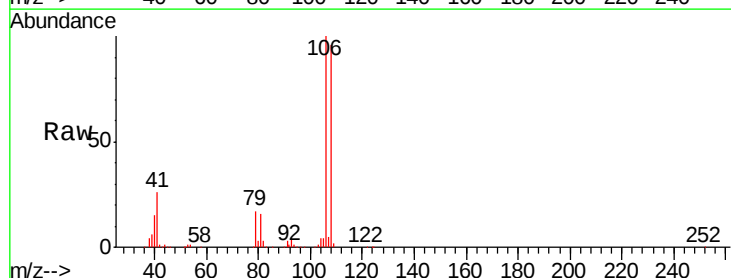
Tgt Ion: 108 Resp: 629248

Ion Ratio Lower Upper

108 100

106 106.0 85.0 127.4

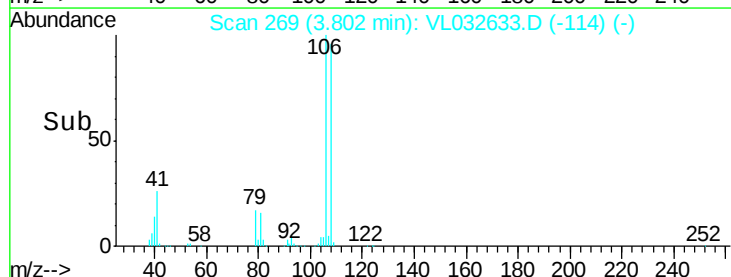
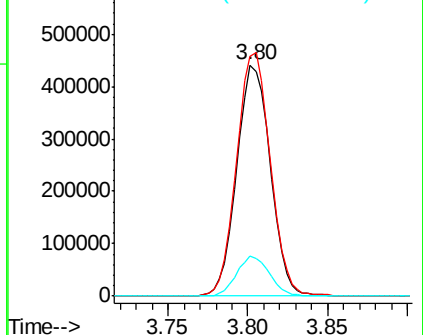
79 17.3 13.7 20.5

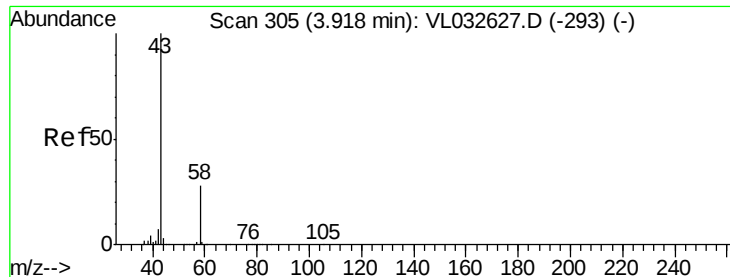


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 14.45 ppbv

RT: 3.92 min Scan# 305

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 1472716

Ion Ratio Lower Upper

43 100

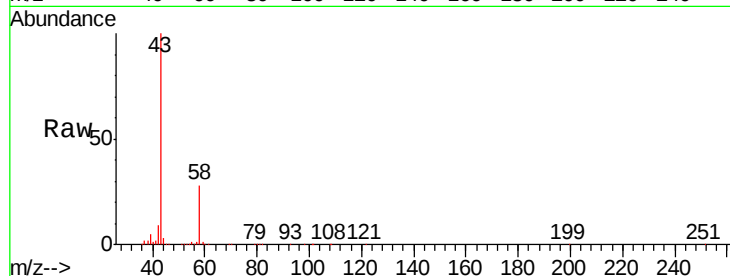
58 27.2 22.1 33.1

Manual Integrations

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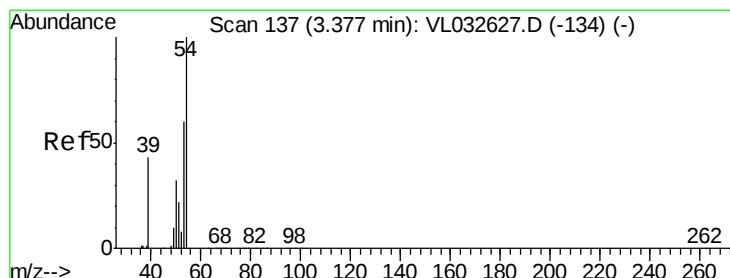
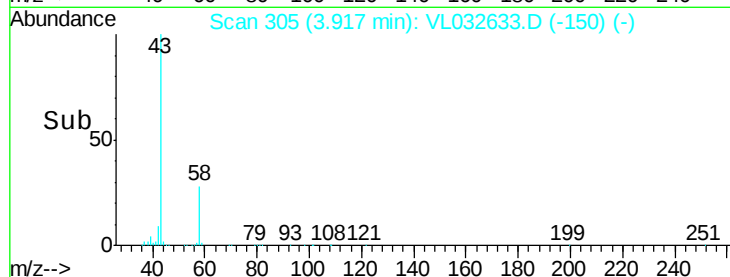
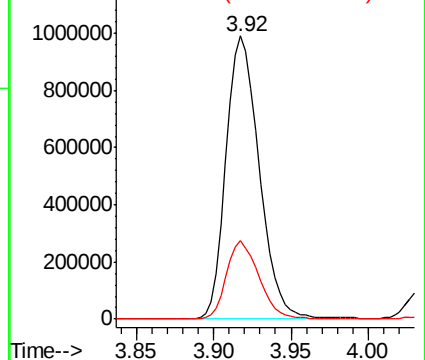
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 14.63 ppbv

RT: 3.38 min Scan# 137

Delta R.T. -0.00 min

Lab File: VL032633.D

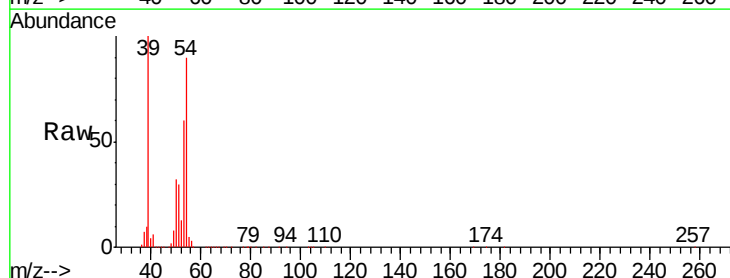
Acq: 17 Oct 2018 6:37

Tgt Ion: 39 Resp: 595974

Ion Ratio Lower Upper

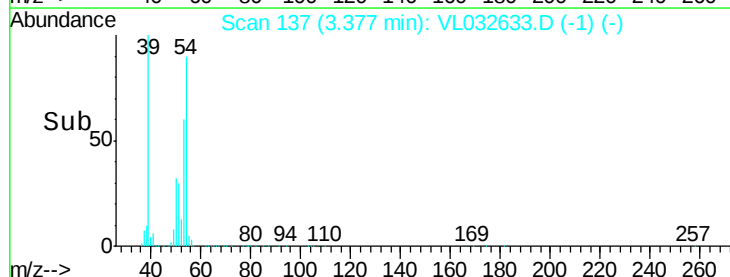
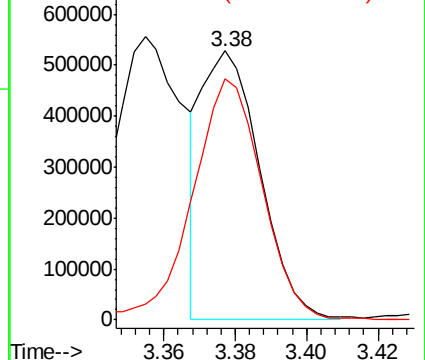
39 100

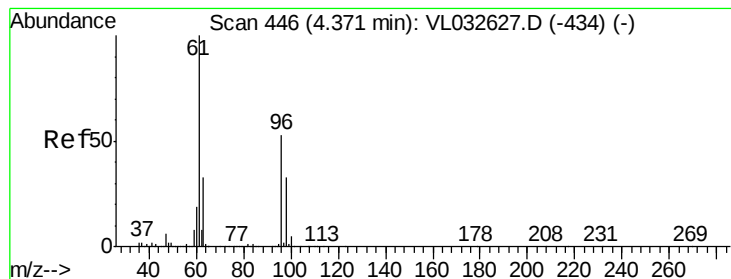
54 108.5 90.4 135.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

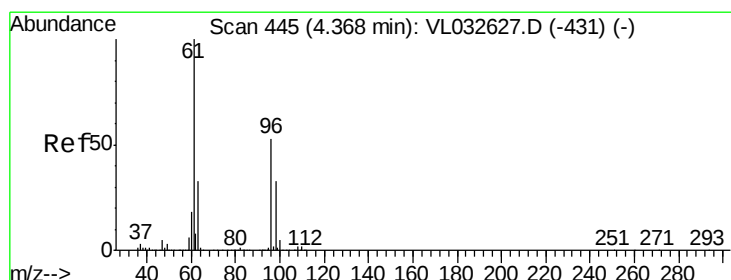
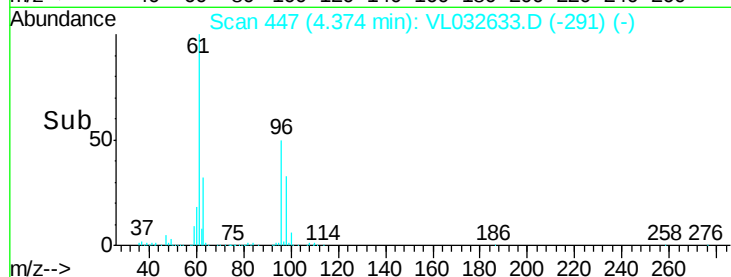
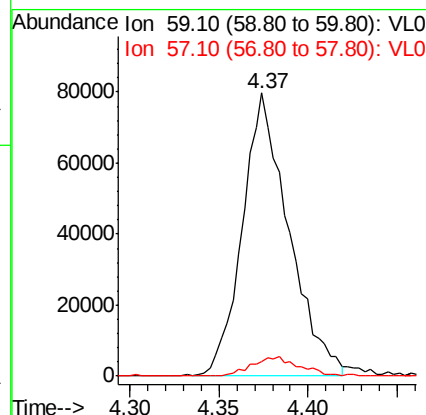
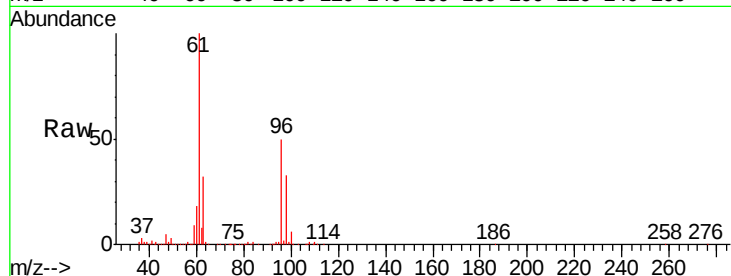
tert-Butyl alcohol
Concen: 17.21 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 143482
Ion Ratio Lower Upper
59 100
57 7.3 0.0 0.0#

Manual Integrations
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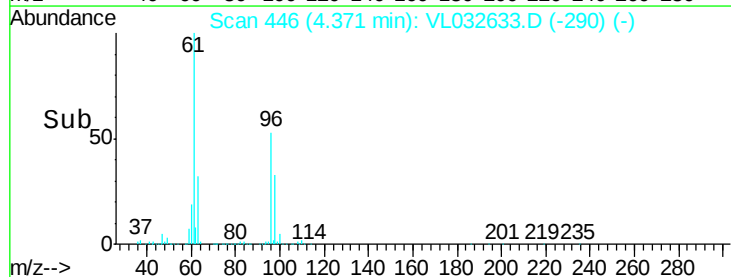
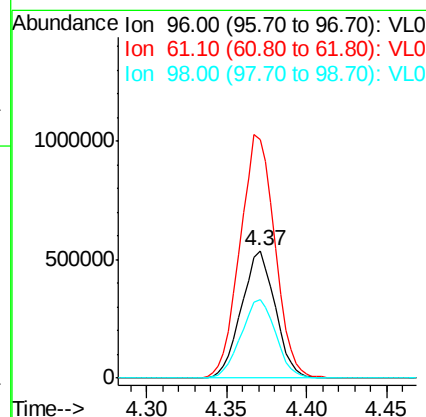
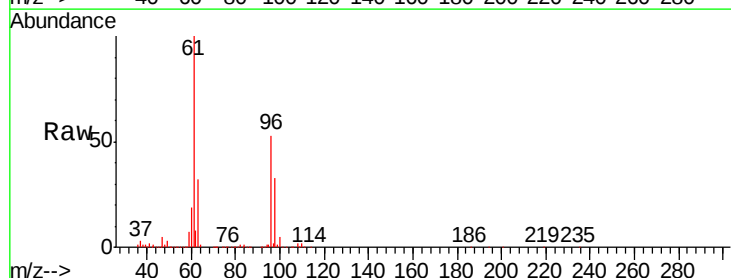
MMDadoda
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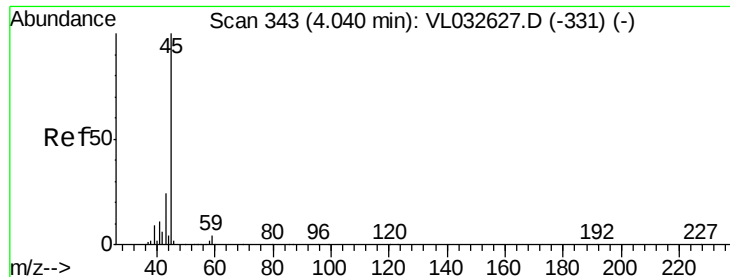


#18

1,1-Dichloroethene
Concen: 16.20 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 96 Resp: 768664
Ion Ratio Lower Upper
96 100
61 187.5 151.6 227.4
98 61.6 50.6 75.8





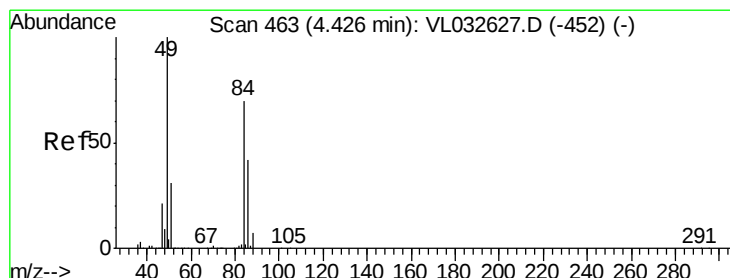
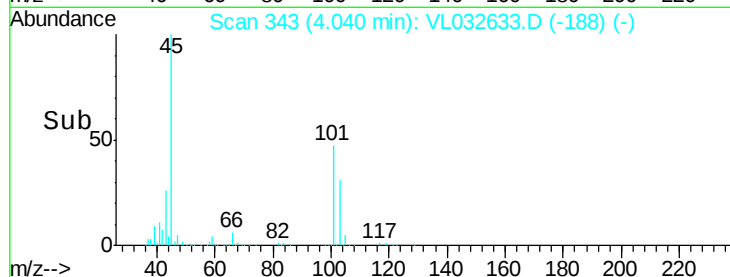
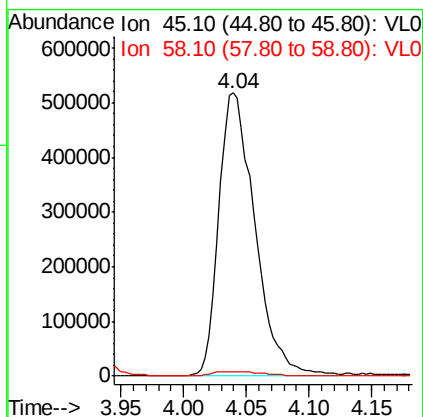
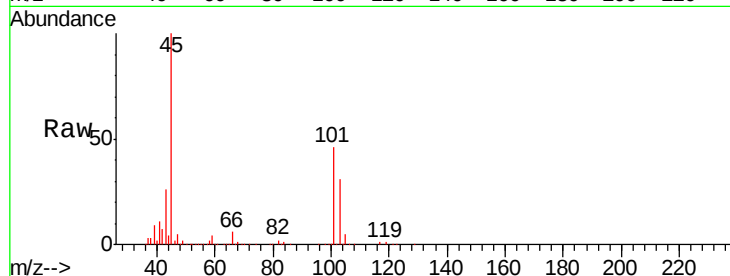
#19
Isopropyl Alcohol
Concen: 15.59 ppbv
RT: 4.04 min Scan# 343
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 45 Resp: 1031113
Ion Ratio Lower Upper
45 100
58 2.6 2.0 3.0

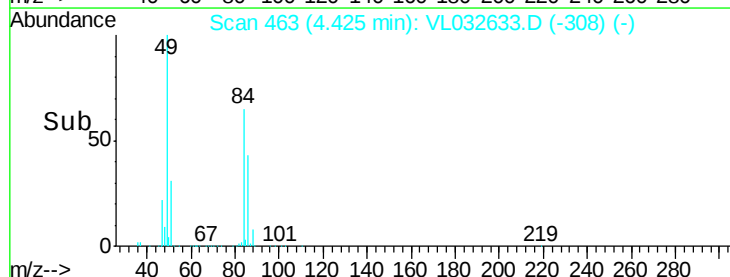
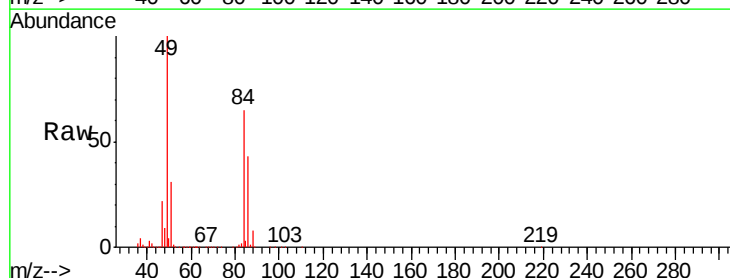
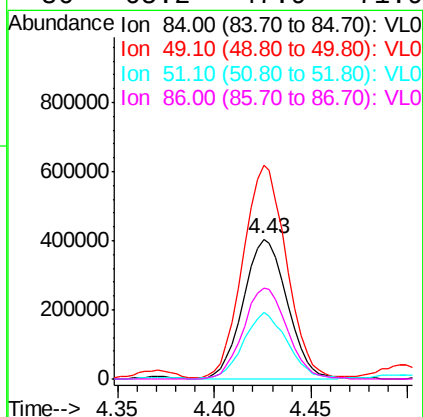
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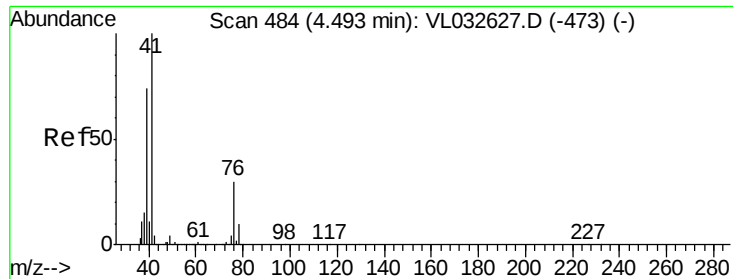
MMDadoda
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#20
Methylene Chloride
Concen: 13.61 ppbv
RT: 4.43 min Scan# 463
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 84 Resp: 636538
Ion Ratio Lower Upper
84 100
49 152.2 113.5 170.3
51 47.9 34.8 52.2
86 65.2 47.9 71.9





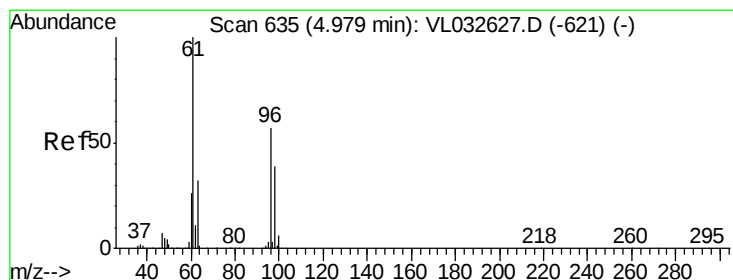
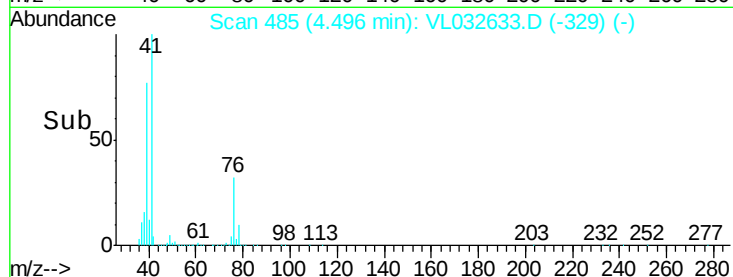
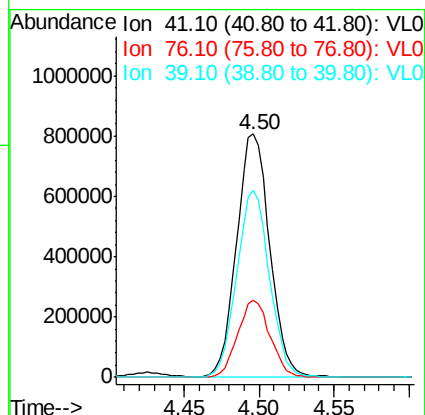
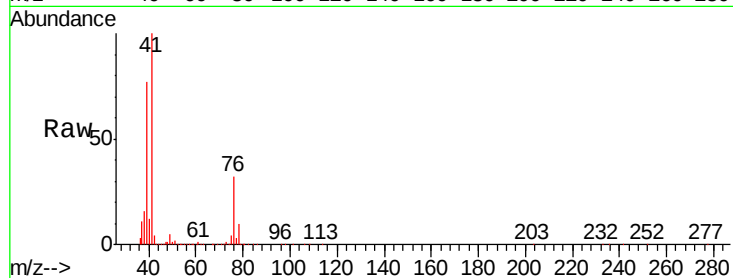
#21
 Allyl Chloride
 Concen: 16.03 ppbv
 RT: 4.50 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 41 Resp: 1244035
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.3 36.5
 39 76.4 60.3 90.5

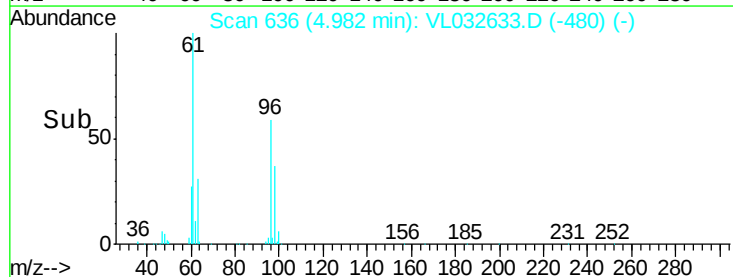
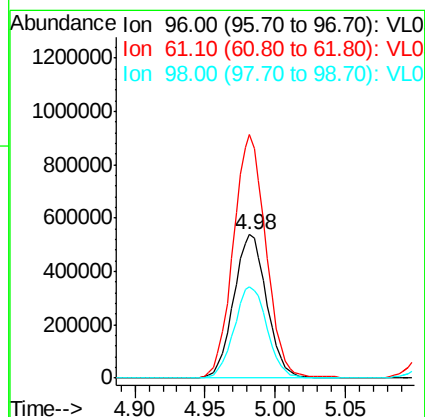
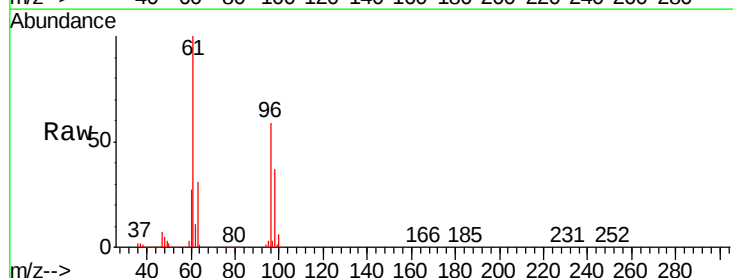
Manual Integrations
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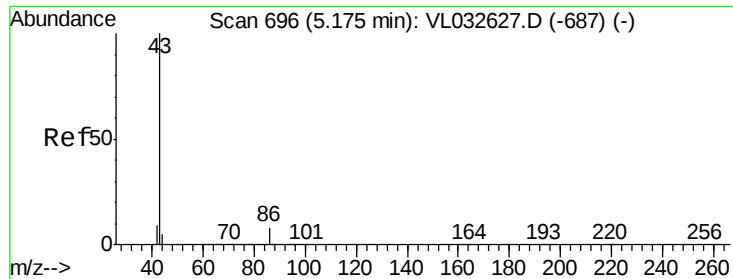
MMDadoda
 10/19/2018 4:36:30 PM



#22
 trans-1,2-Dichloroethene
 Concen: 15.93 ppbv
 RT: 4.98 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion: 96 Resp: 878738
 Ion Ratio Lower Upper
 96 100
 61 169.6 140.4 210.6
 98 63.3 55.0 82.6





#23

Vinyl Acetate

Concen: 17.80 ppbv

RT: 5.17 min Scan# 696

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2858733

Ion Ratio Lower Upper

43 100

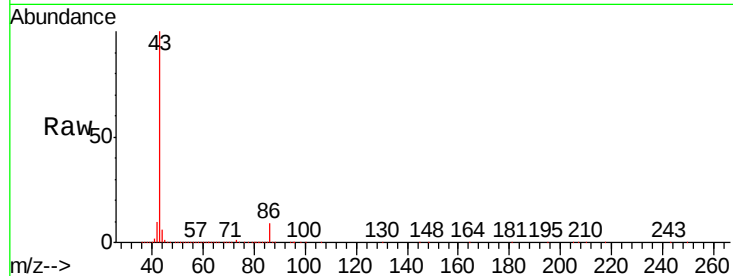
86 8.6 6.1 9.1

42 10.1 7.4 11.2

44 5.5 4.2 6.2

Manual Integrations
APPROVED

MMDadoda
10/19/2018 4:36:30 PM

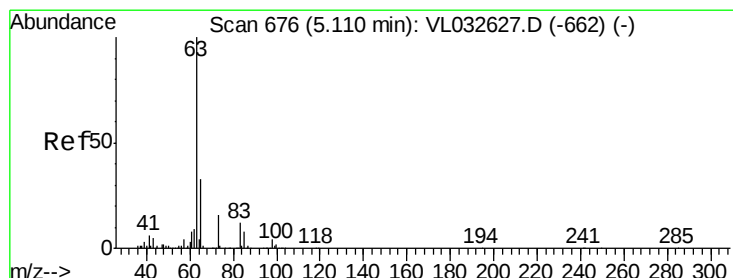
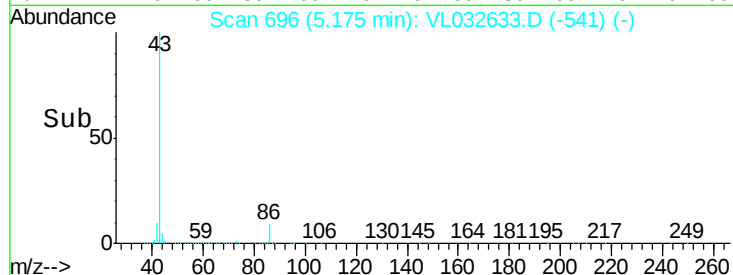
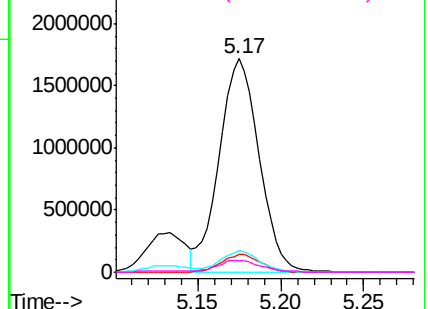


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 16.11 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

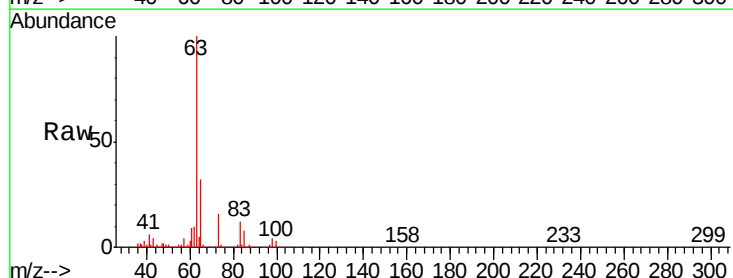
Tgt Ion: 63 Resp: 2288000

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.3

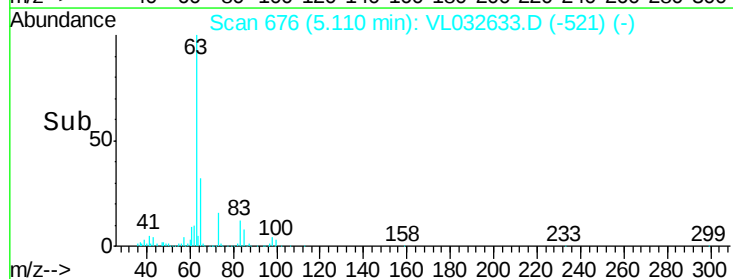
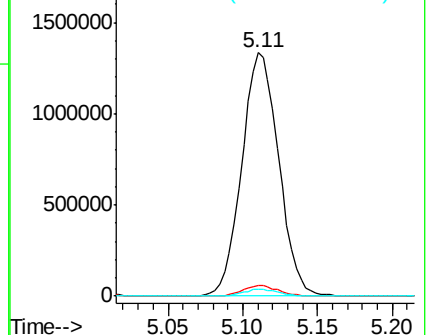
100 2.6 1.2 3.6

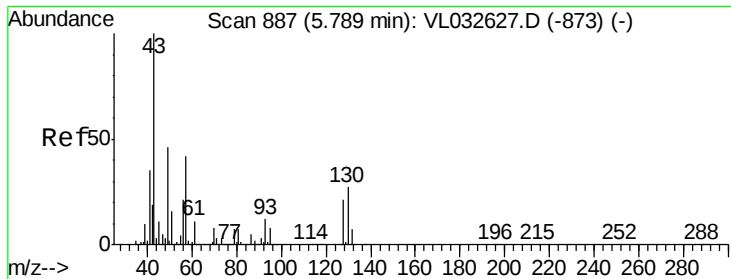


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





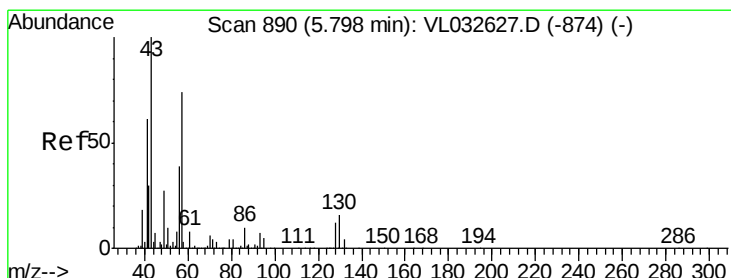
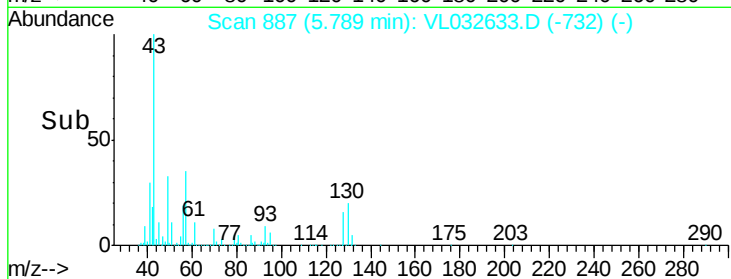
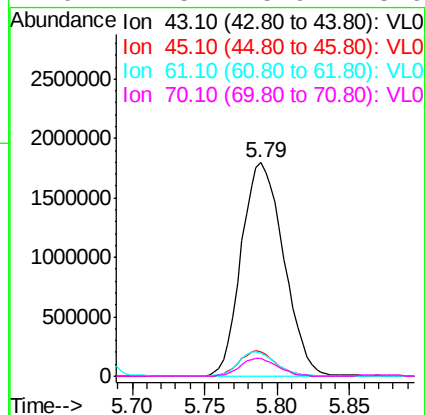
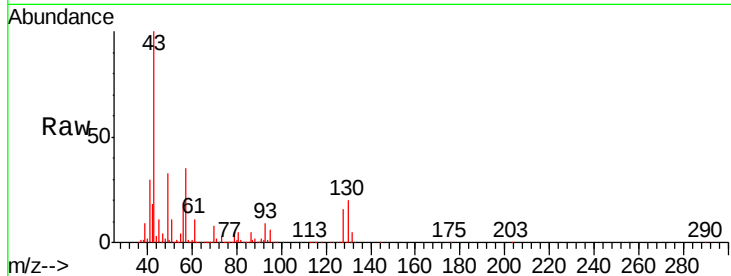
#25
Ethyl Acetate
Concen: 15.41 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.0	12.0
61	10.3	8.0	12.0
70	7.5	5.9	8.9

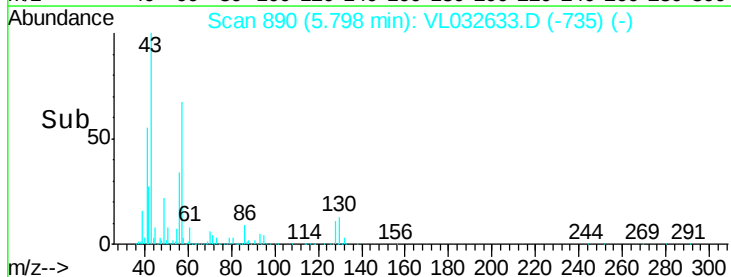
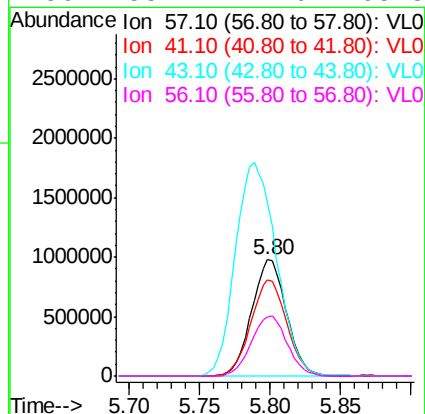
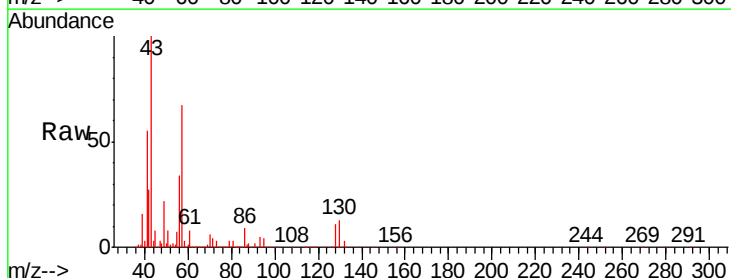
Manual Integrations
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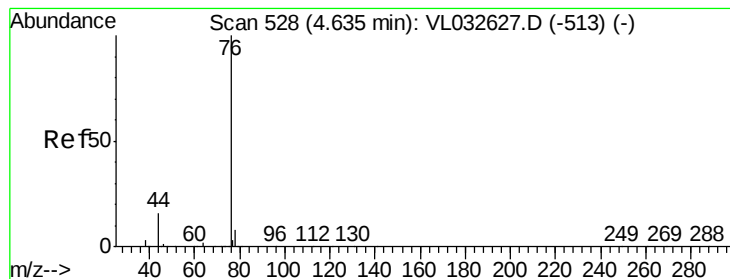
MMDadoda
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#26
Hexane
Concen: 15.52 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.0	67.4	101.0
43	218.5	171.9	257.9
56	53.4	42.6	63.8





#27

Carbon Disulfide

Concen: 15.53 ppbv

RT: 4.64 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 2011416

Ion Ratio Lower Upper

76 100

44 17.6 13.7 20.5

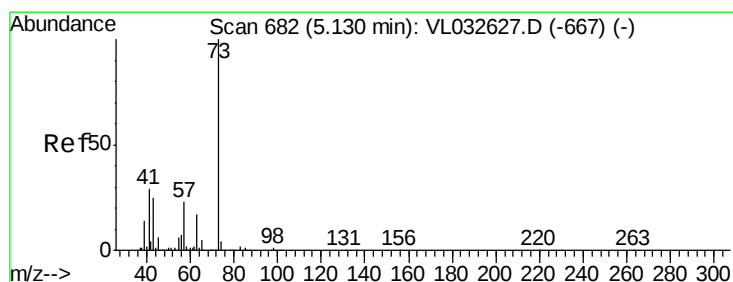
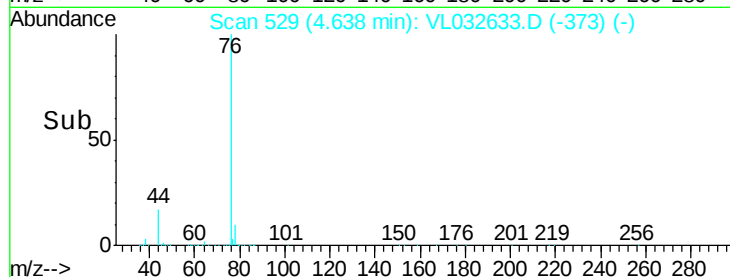
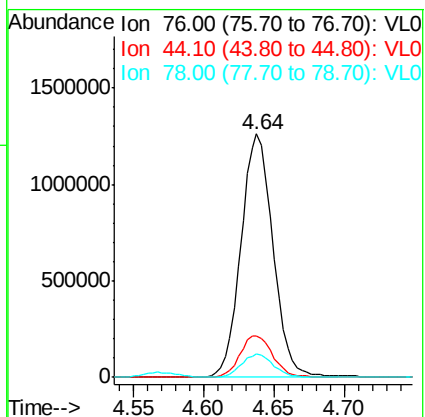
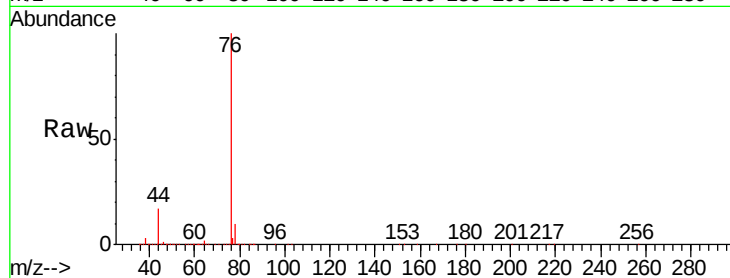
78 9.5 7.4 11.2

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 18.10 ppbv

RT: 5.13 min Scan# 682

Delta R.T. -0.00 min

Lab File: VL032633.D

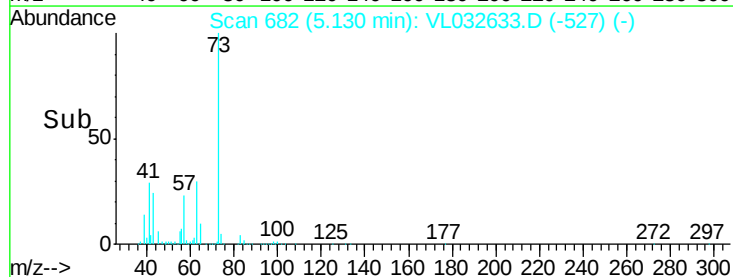
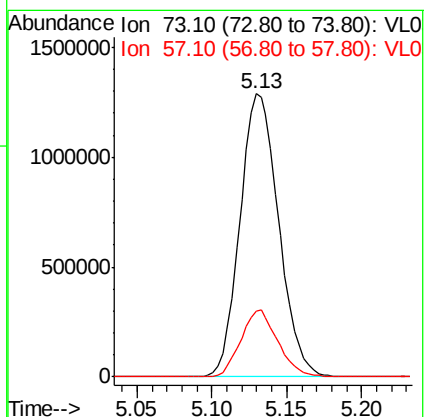
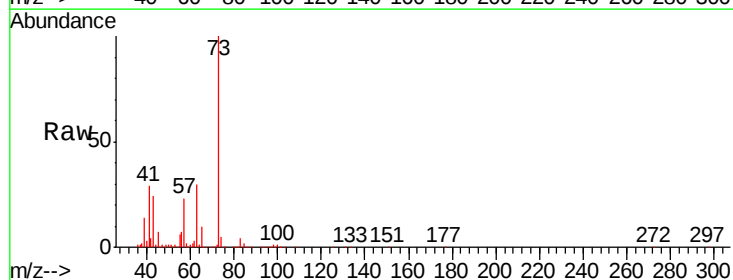
Acq: 17 Oct 2018 6:37

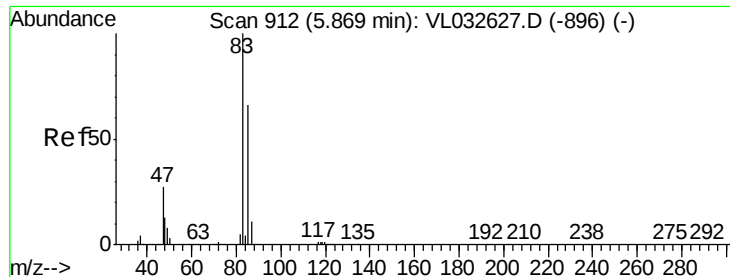
Tgt Ion: 73 Resp: 2315190

Ion Ratio Lower Upper

73 100

57 22.8 18.0 27.0





#29

Chloroform

Concen: 14.80 ppbv

RT: 5.87 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 2738795

Ion Ratio Lower Upper

83 100

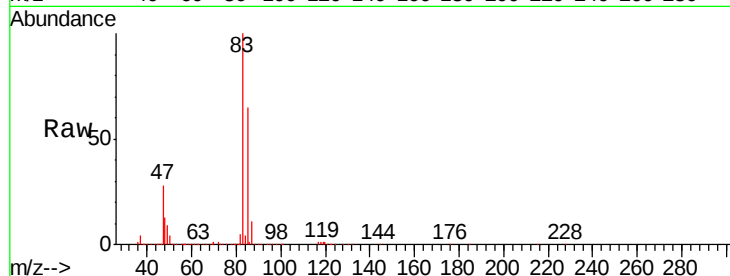
85 64.6 53.0 79.6

Manual Integrations

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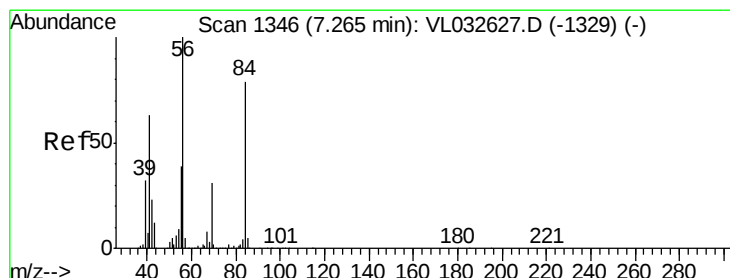
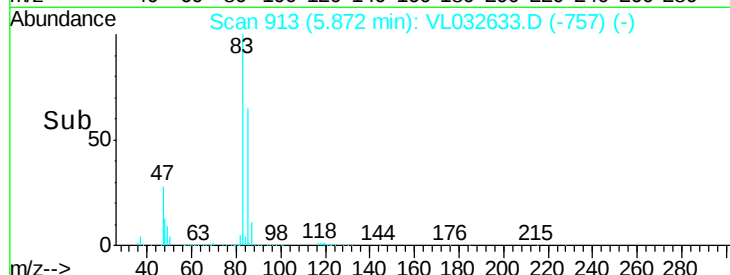
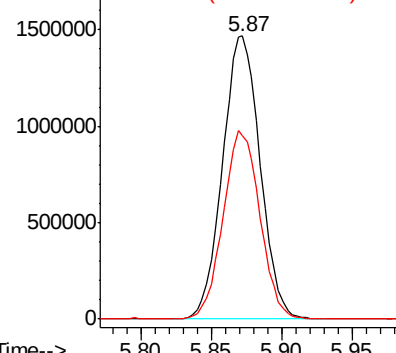
MMDadoda

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 17.87 ppbv

RT: 7.27 min Scan# 1348

Delta R.T. 0.01 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

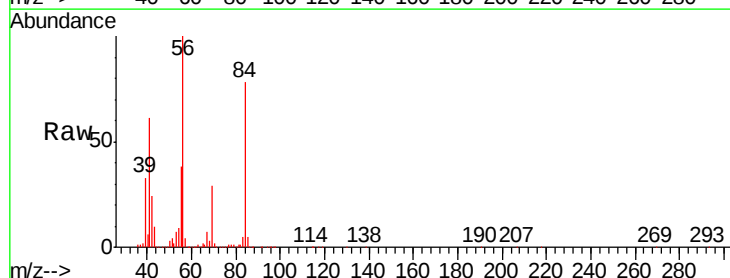
Tgt Ion: 84 Resp: 1520261

Ion Ratio Lower Upper

84 100

56 132.8 108.3 162.5

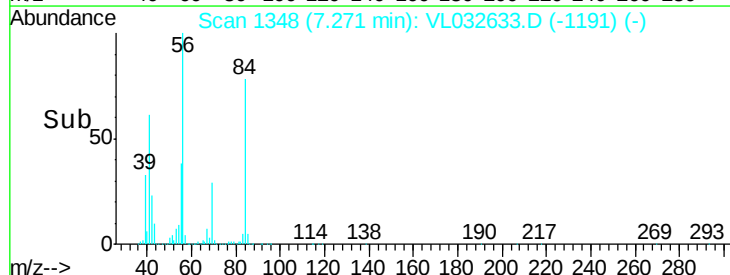
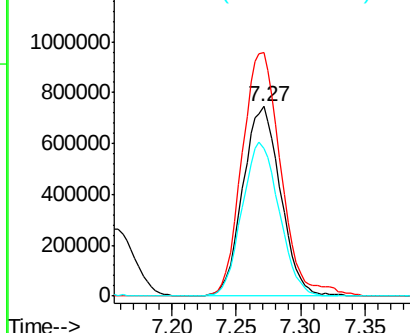
41 80.0 64.8 97.2

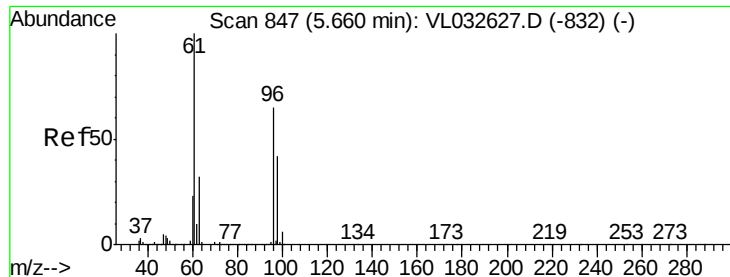


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

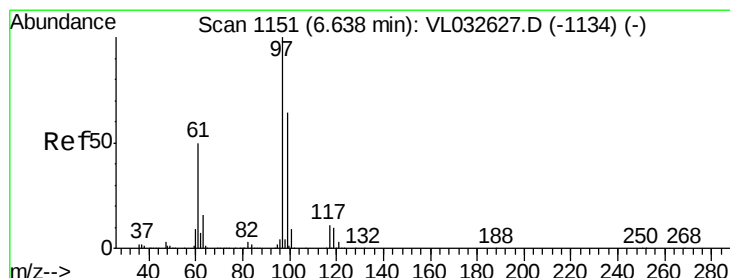
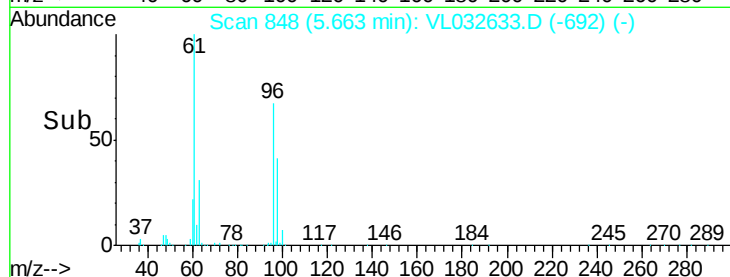
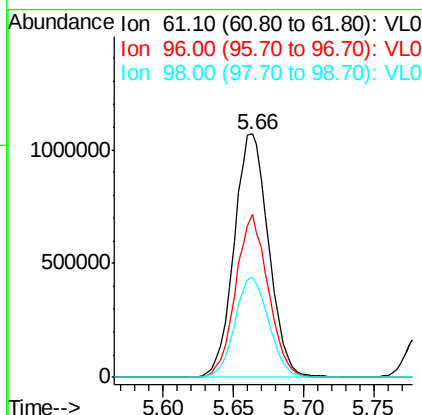
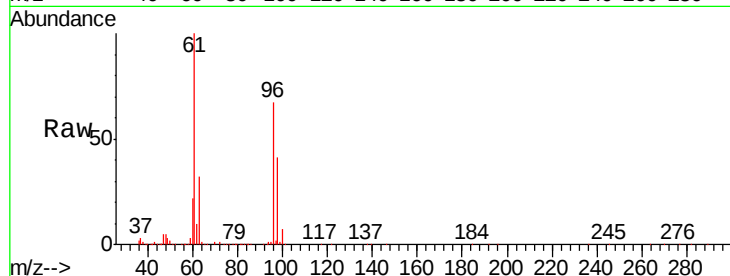
cis-1,2-Dichloroethene
 Concen: 17.88 ppbv
 RT: 5.66 min Scan# 848
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
61	100		
96	66.8	51.8	77.6
98	40.9	33.8	50.6

Manual Integrations
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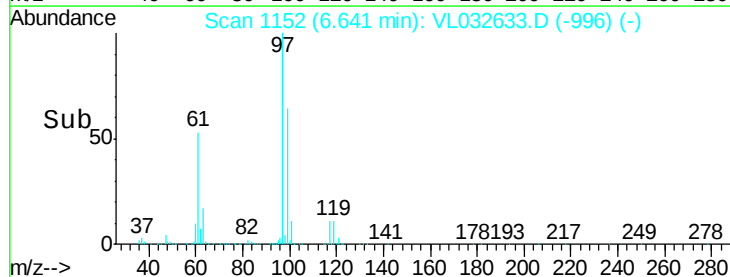
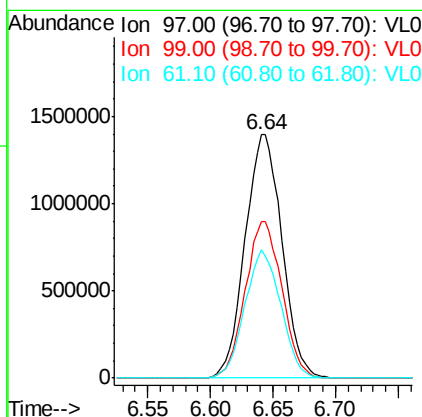
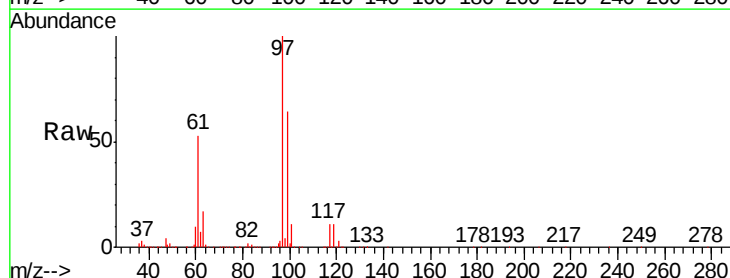
MMDadoda
 10/19/2018 4:36:30 PM

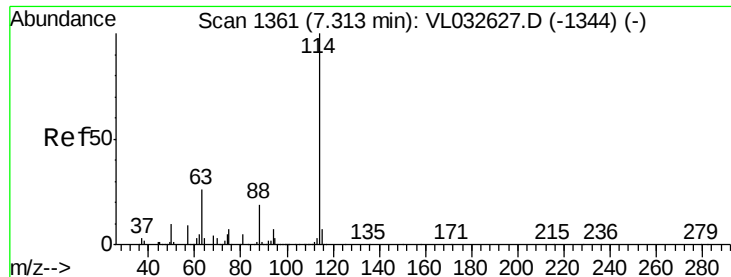


#32

1,1,1-Trichloroethane
 Concen: 15.96 ppbv
 RT: 6.64 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.0	78.0
61	51.6	40.7	61.1





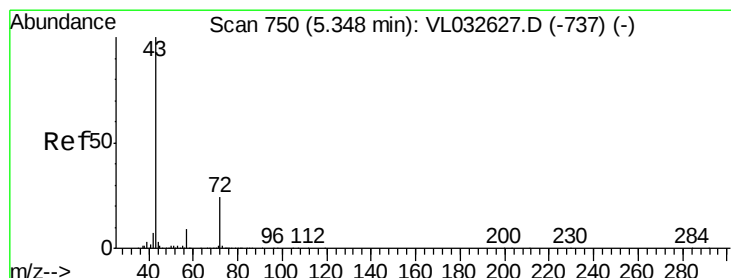
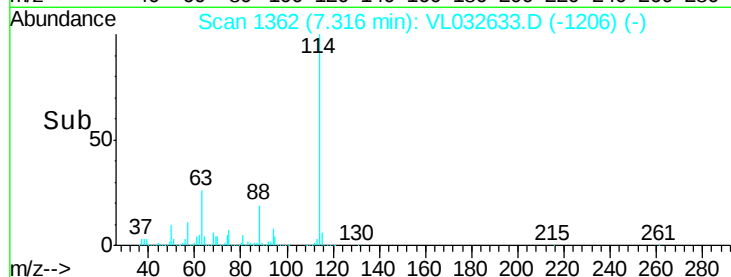
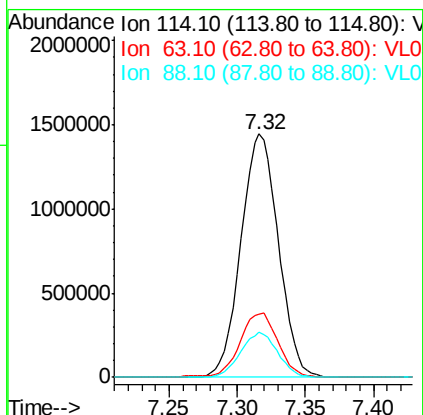
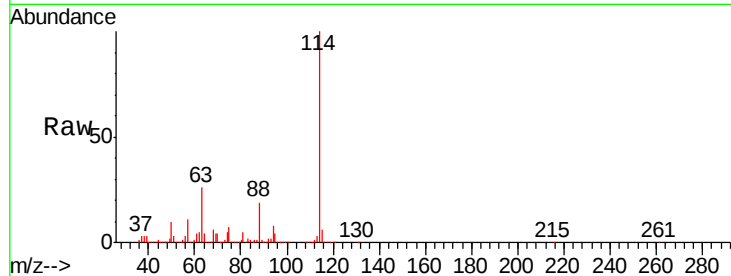
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.32 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.7	32.5
88	18.3	14.9	22.3

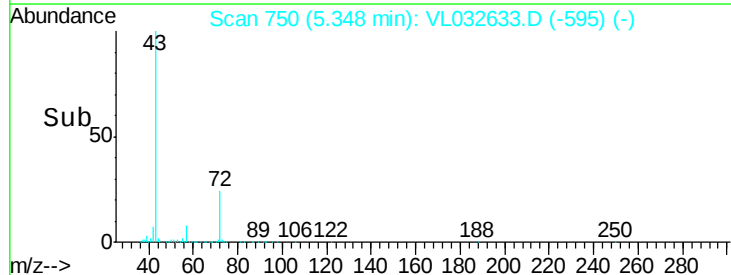
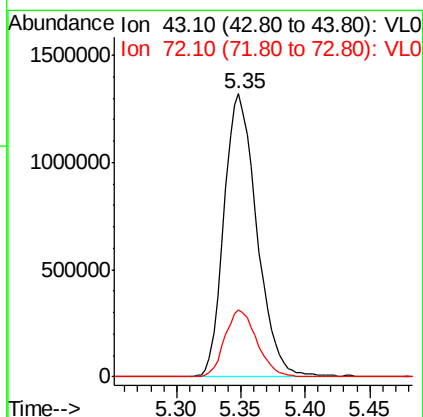
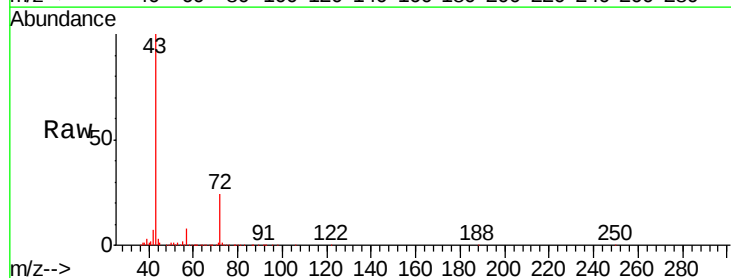
Manual Integrations
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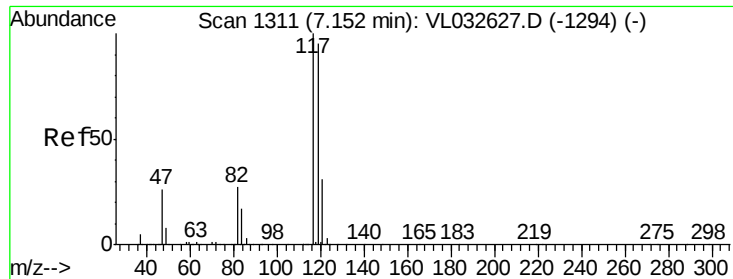
MMDadoda
 10/19/2018 4:36:30 PM



#34
 2-Butanone
 Concen: 16.38 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. -0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.6	27.8





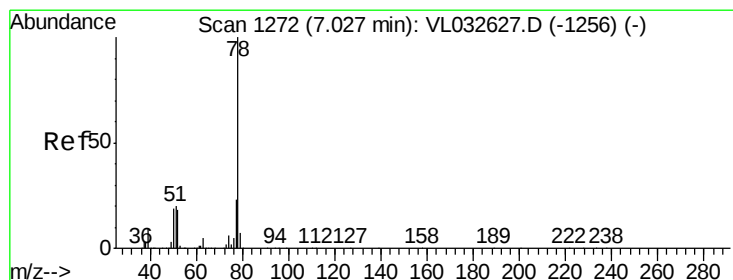
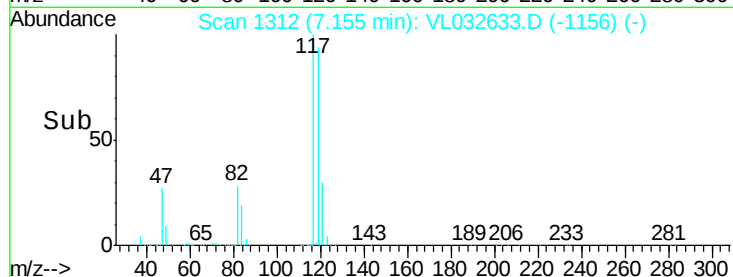
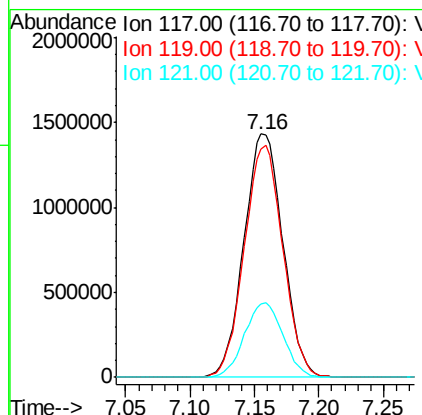
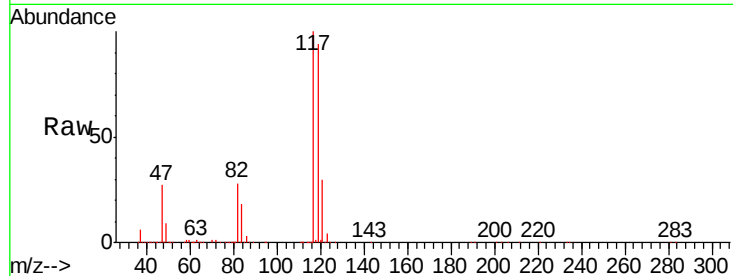
#35
Carbon Tetrachloride
Concen: 15.22 ppbv
RT: 7.16 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	75.7	113.5
121	30.3	24.7	37.1

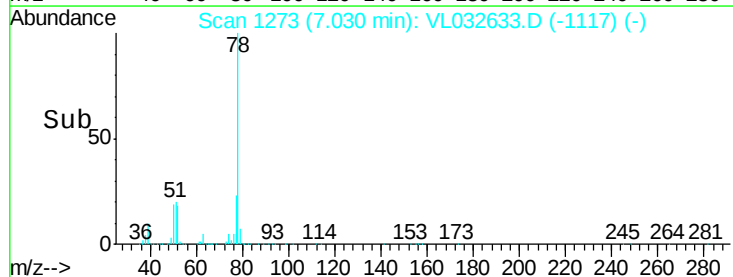
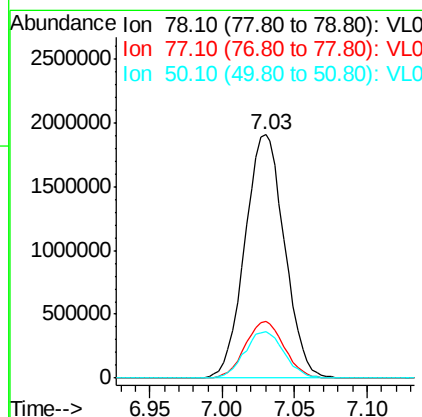
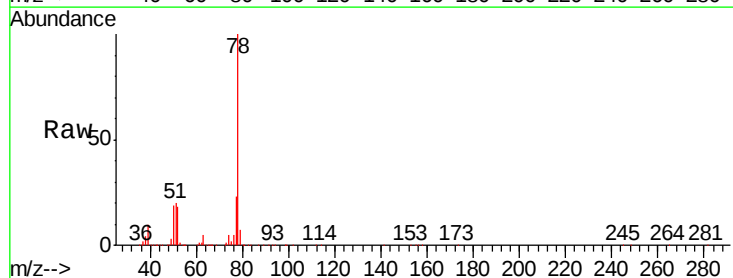
Manual Integrations
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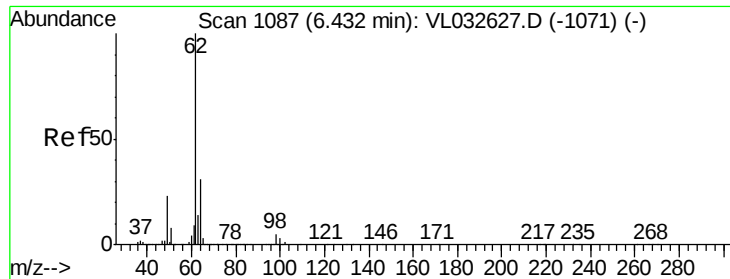
MMDadoda
10/19/2018 4:36:30 PM



#36
Benzene
Concen: 16.60 ppbv
RT: 7.03 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.1	27.1
50	19.2	15.1	22.7





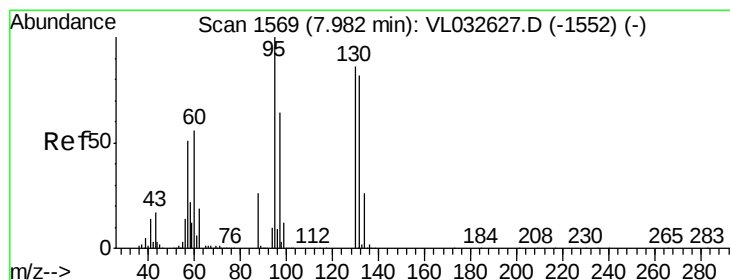
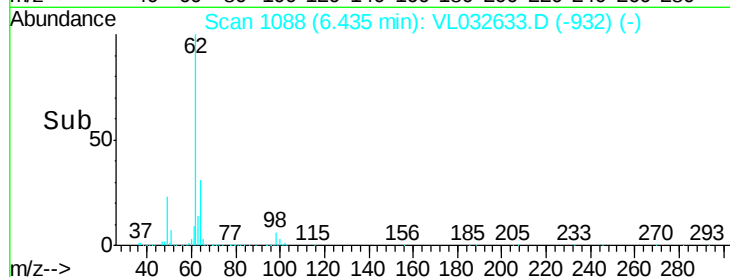
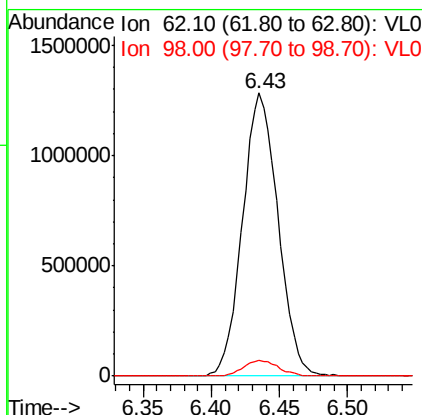
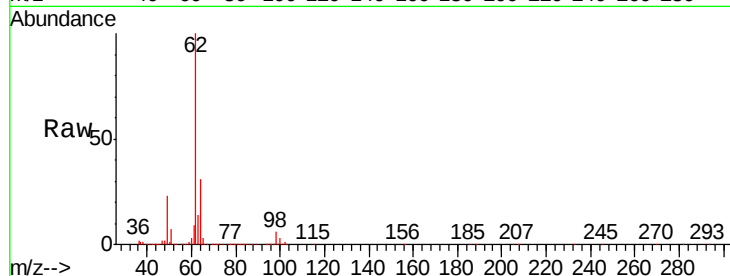
#37
 1,2-Dichloroethane
 Concen: 15.99 ppbv
 RT: 6.43 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 2320405
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.4 6.6

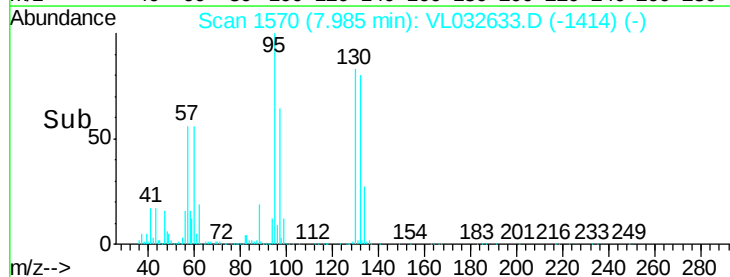
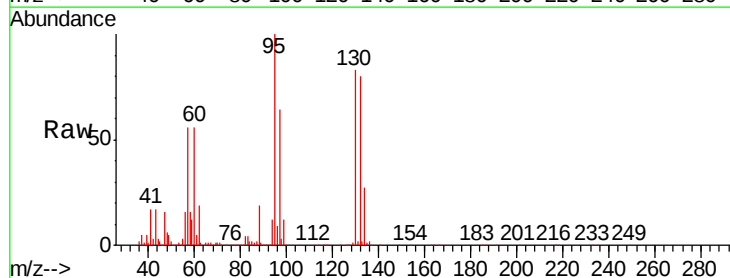
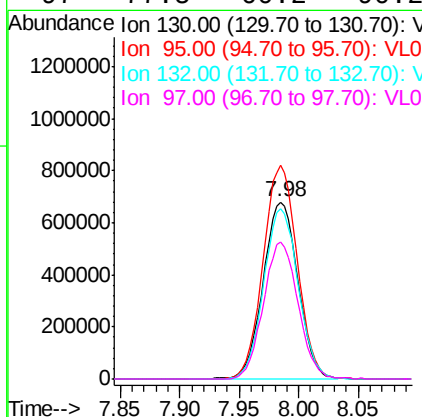
Manual Integrations
 APPROVED

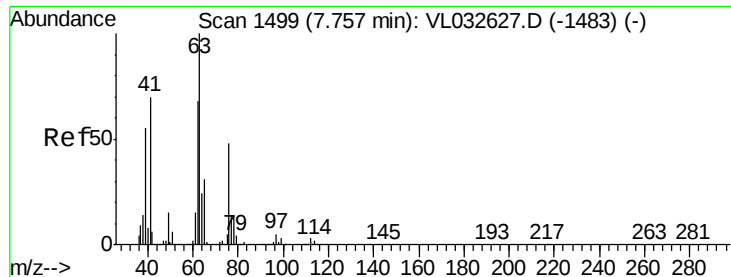
MMDadoda
 10/19/2018 4:36:30 PM



#38
 Trichloroethene
 Concen: 17.13 ppbv
 RT: 7.98 min Scan# 1570
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion: 130 Resp: 1374162
 Ion Ratio Lower Upper
 130 100
 95 120.6 93.4 140.0
 132 95.9 76.5 114.7
 97 77.5 60.2 90.2





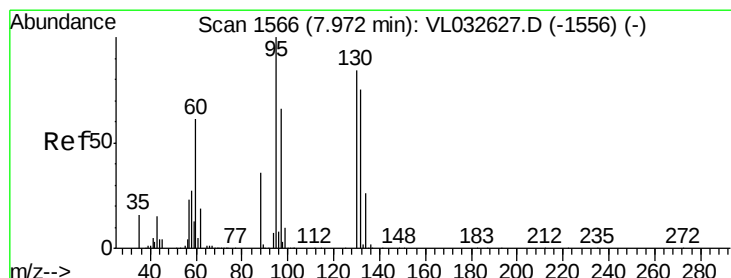
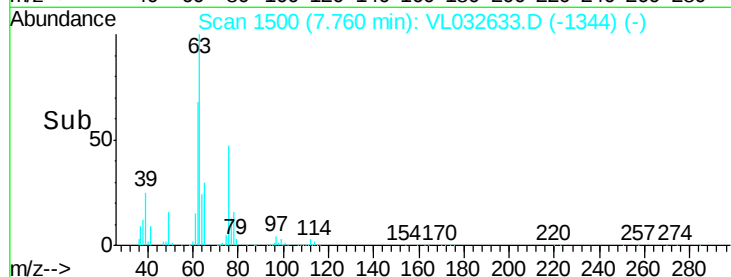
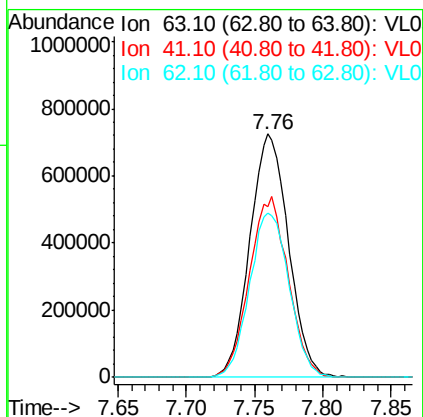
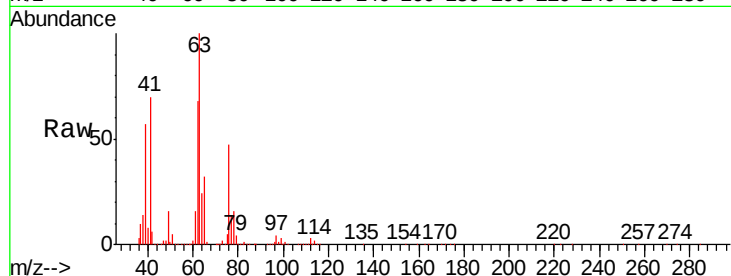
#39
 1,2-Dichloropropane
 Concen: 15.98 ppbv
 RT: 7.76 min Scan# 1500
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 63 Resp: 1424987
 Ion Ratio Lower Upper
 63 100
 41 70.3 56.2 84.4
 62 67.5 54.4 81.6

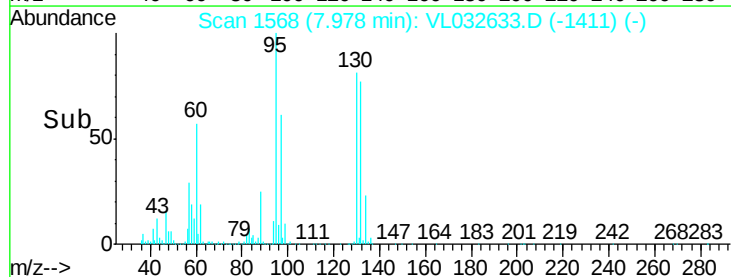
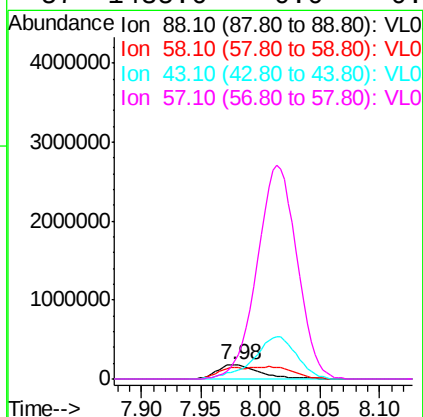
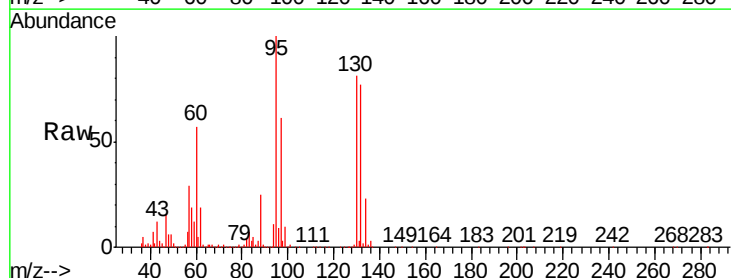
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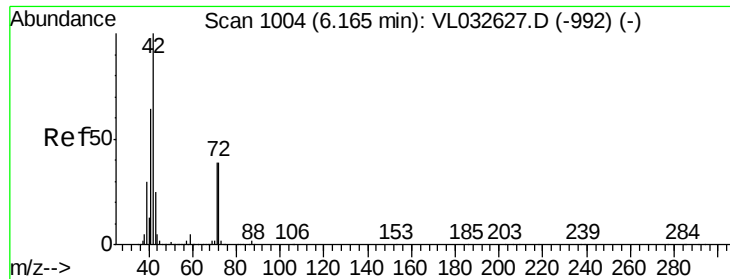
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 10/19/2018 4:36:30 PM



#40
 1,4-Dioxane
 Concen: 14.93 ppbv
 RT: 7.98 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion: 88 Resp: 438523
 Ion Ratio Lower Upper
 88 100
 58 144.8 104.0 156.0
 43 305.6 0.0 0.0#
 57 1435.6 0.0 0.0#





#41

Tetrahydrofuran

Concen: 17.81 ppbv

RT: 6.17 min Scan# 1005

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 42 Resp: 1411402

Ion Ratio Lower Upper

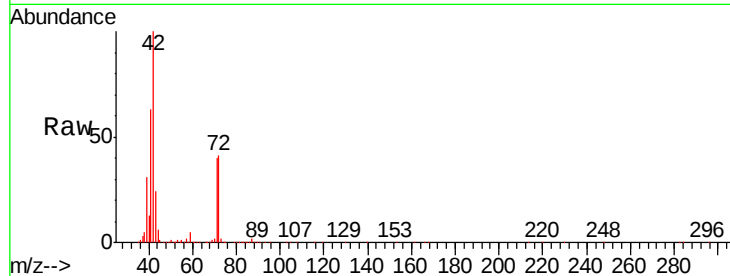
42 100

72 41.7 32.4 48.6

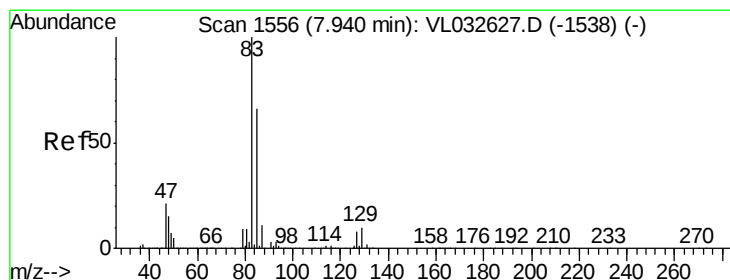
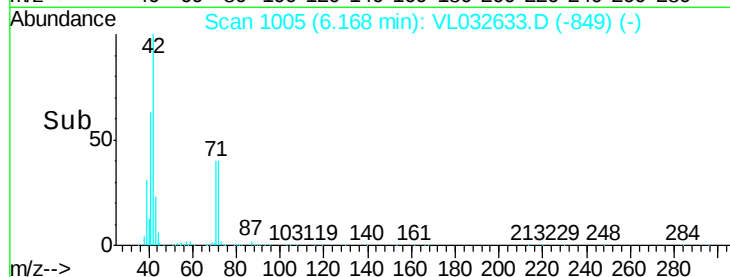
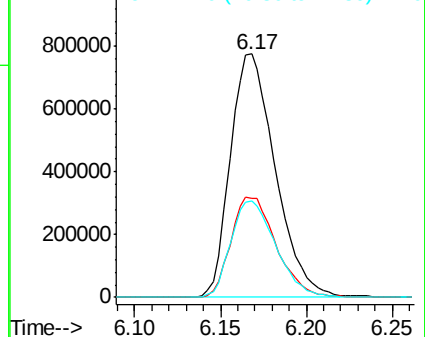
71 39.9 31.3 46.9

Manual Integrations
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10/19/2018 4:36:30 PM



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



#42

Bromodichloromethane

Concen: 15.65 ppbv

RT: 7.94 min Scan# 1556

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

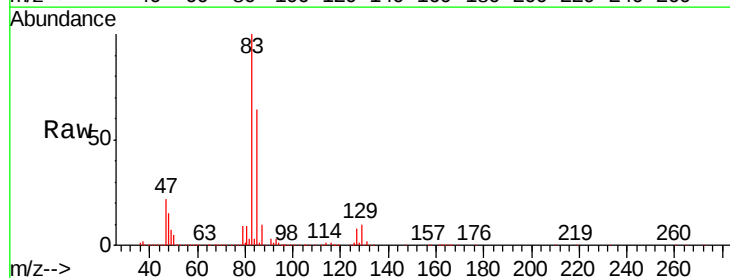
Tgt Ion: 83 Resp: 3180612

Ion Ratio Lower Upper

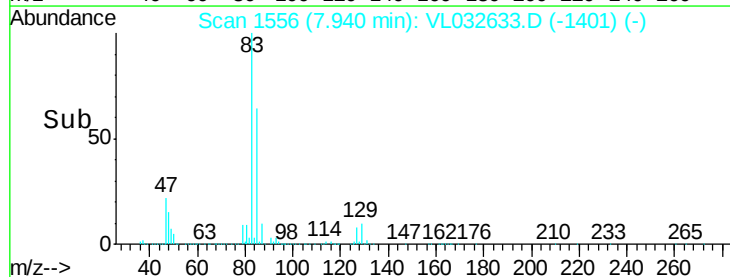
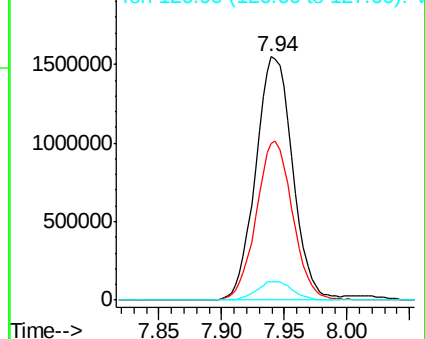
83 100

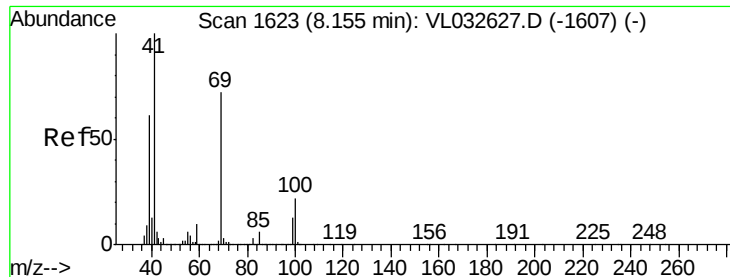
85 64.2 52.4 78.6

127 7.5 6.1 9.1



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





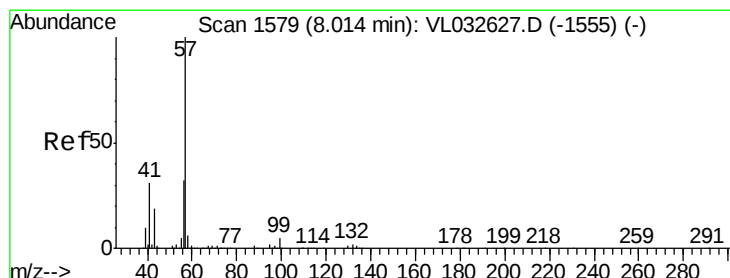
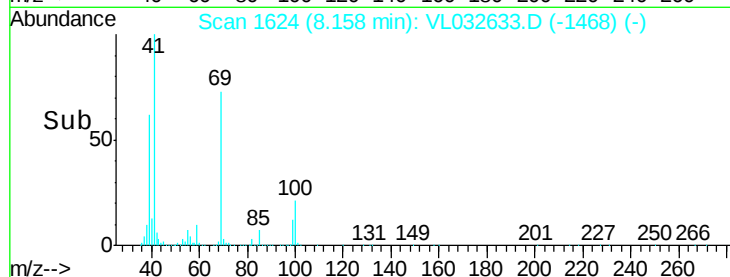
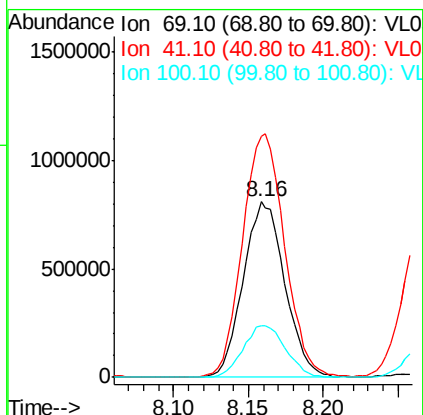
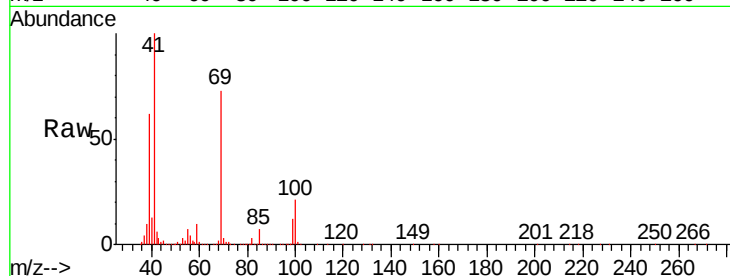
#43
Methyl Methacrylate
Concen: 18.46 ppbv
RT: 8.16 min Scan# 1624
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 69 Resp: 1562803
Ion Ratio Lower Upper
69 100
41 140.8 113.2 169.8
100 30.1 24.4 36.6

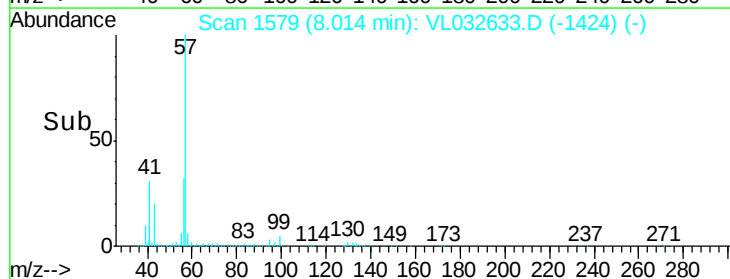
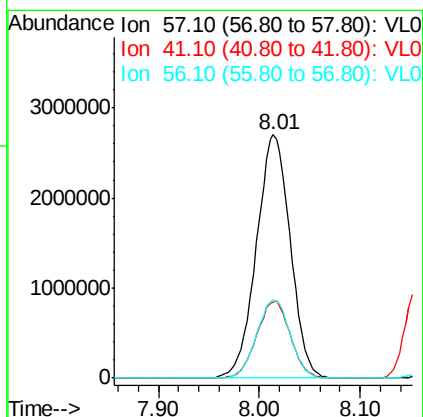
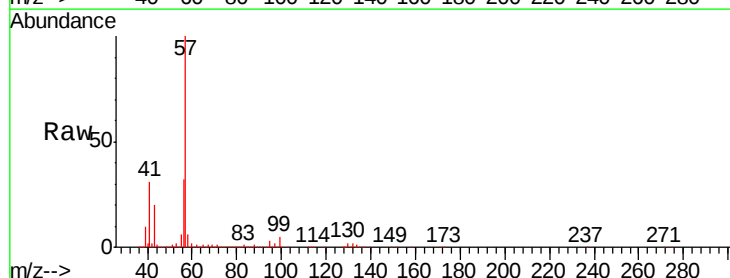
Manual Integrations
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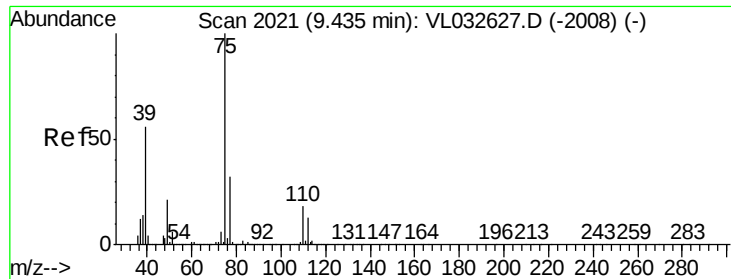
MMDadoda
10/19/2018 4:36:30 PM



#44
2,2,4-Trimethylpentane
Concen: 16.21 ppbv
RT: 8.01 min Scan# 1579
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 57 Resp: 6288577
Ion Ratio Lower Upper
57 100
41 31.3 24.7 37.1
56 31.9 25.0 37.4





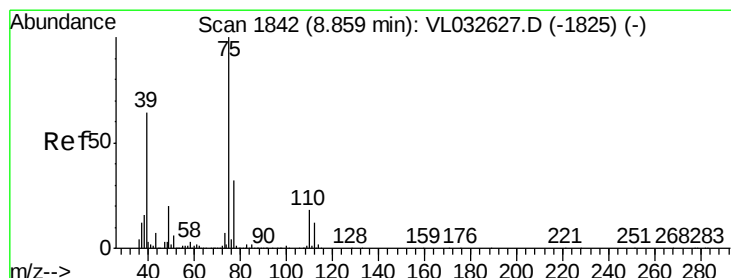
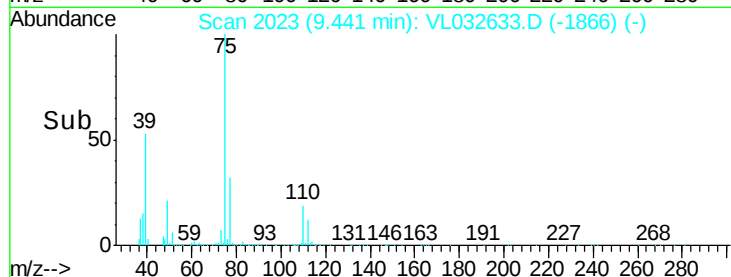
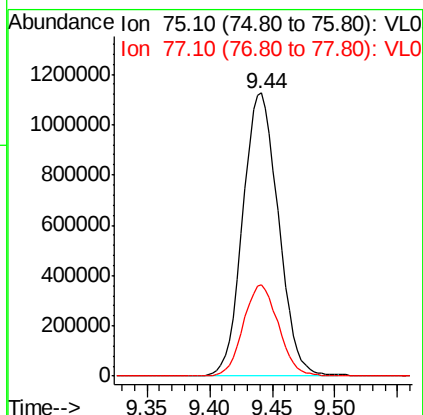
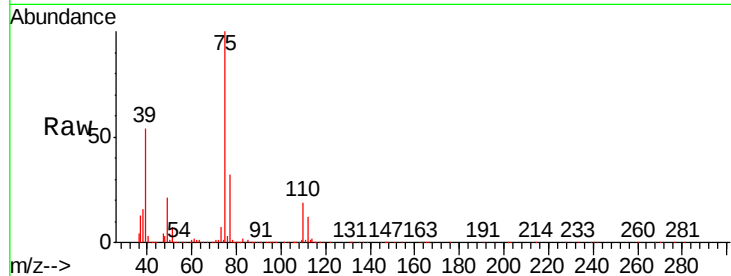
#45
t-1,3-Dichloropropene
Concen: 20.90 ppbv
RT: 9.44 min Scan# 2023
Delta R.T. 0.01 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 75 Resp: 2228272
Ion Ratio Lower Upper
75 100
77 32.4 25.3 37.9

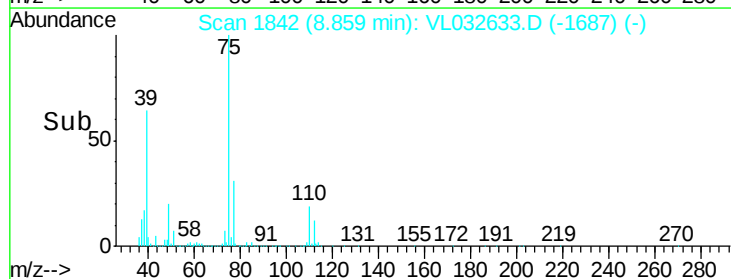
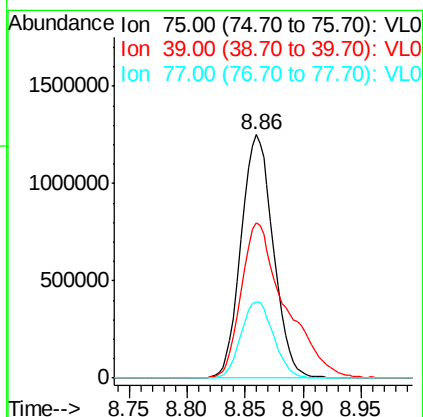
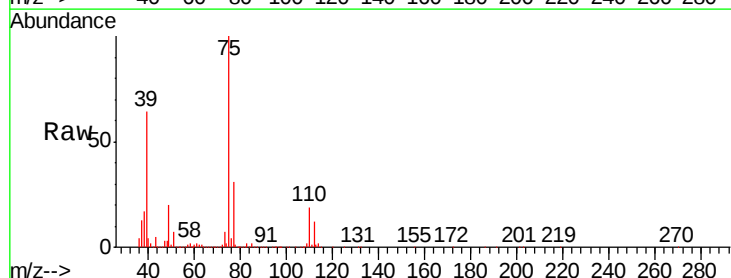
Manual Integrations
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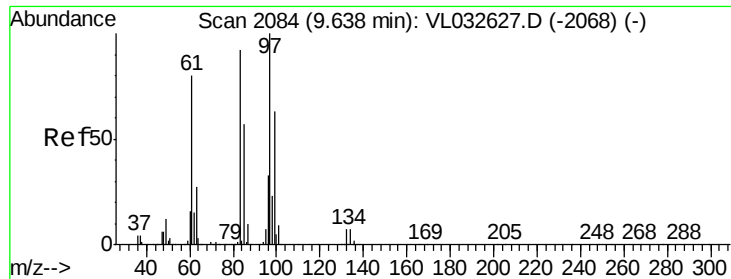
MMDadoda
10/19/2018 4:36:30 PM



#46
cis-1,3-Dichloropropene
Concen: 19.91 ppbv
RT: 8.86 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 75 Resp: 2418752
Ion Ratio Lower Upper
75 100
39 63.7 50.9 76.3
77 31.1 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 15.81 ppbv

RT: 9.64 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1671630

Ion Ratio Lower Upper

97 100

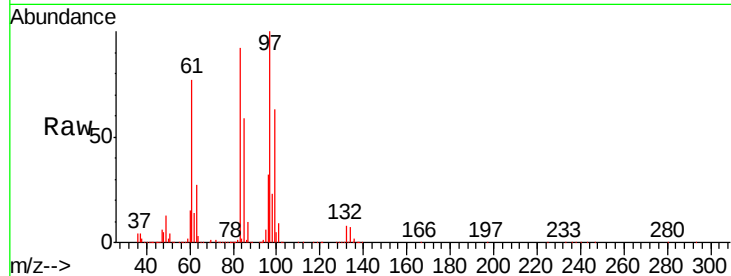
83 92.3 73.5 110.3

85 58.4 45.8 68.6

99 63.5 50.6 75.8

Manual Integrations
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MMDadoda
10/19/2018 4:36:30 PM

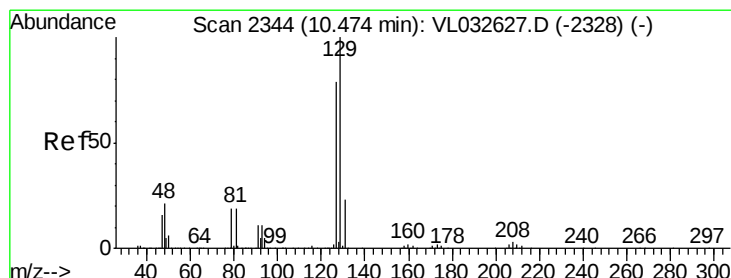
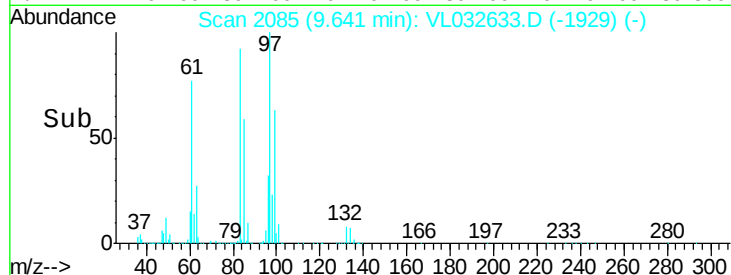
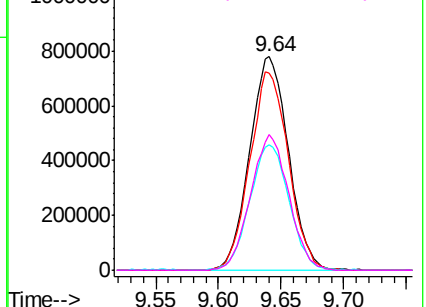


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 16.71 ppbv

RT: 10.48 min Scan# 2345

Delta R.T. 0.00 min

Lab File: VL032633.D

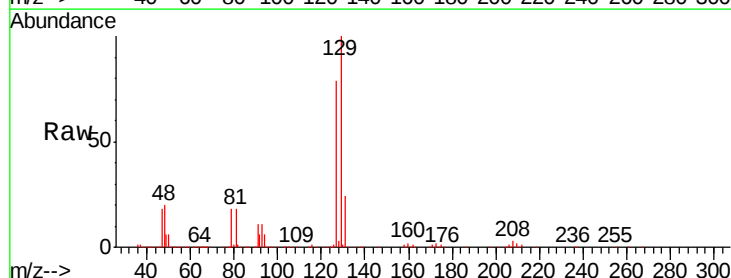
Acq: 17 Oct 2018 6:37

Tgt Ion: 129 Resp: 2940519

Ion Ratio Lower Upper

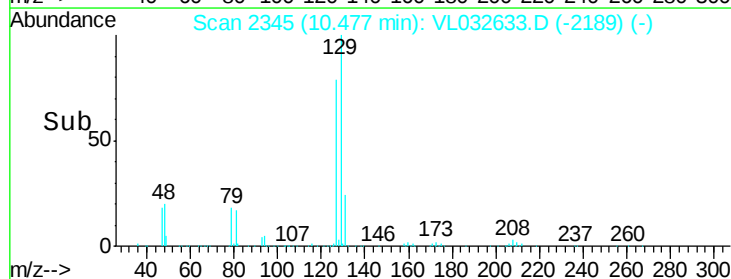
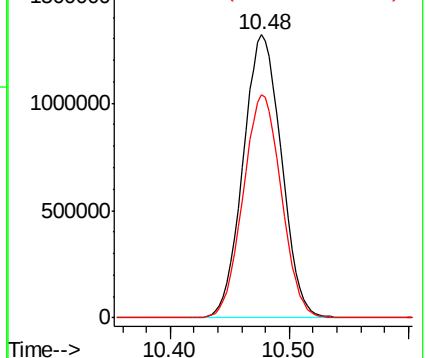
129 100

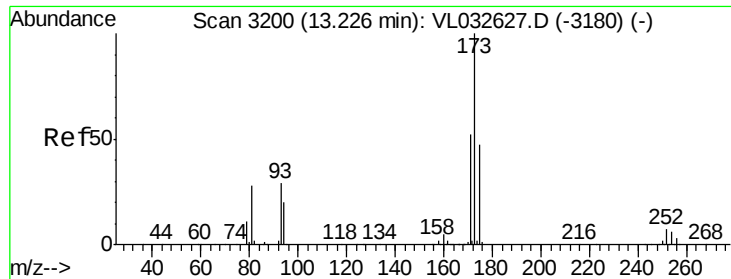
127 78.8 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





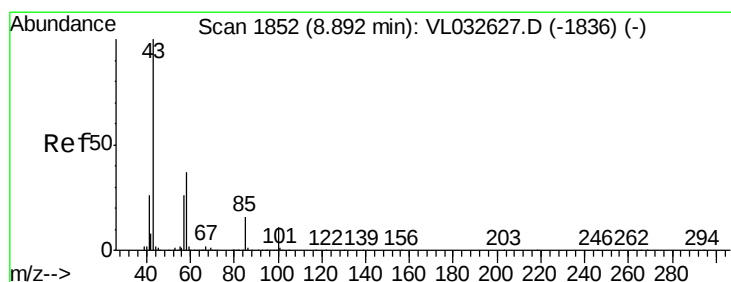
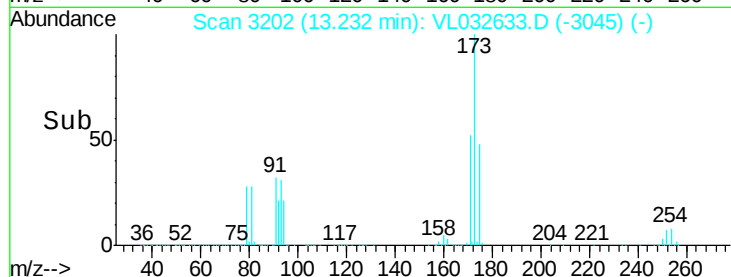
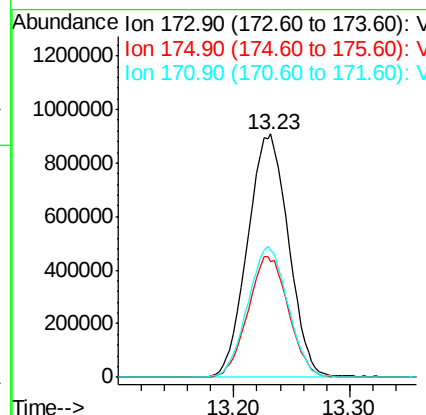
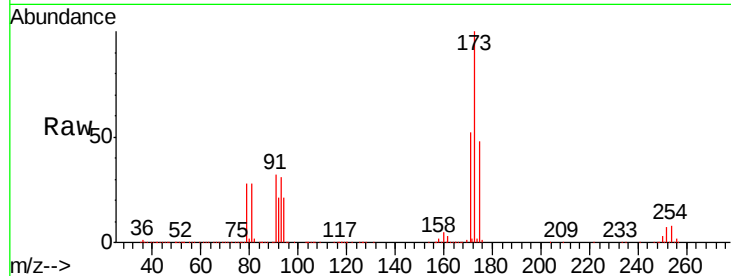
#49
Bromoform
Concen: 16.62 ppbv
RT: 13.23 min Scan# 3202
Delta R.T. 0.01 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 173 Resp: 2230505
Ion Ratio Lower Upper
173 100
175 49.1 39.0 58.4
171 52.9 42.2 63.2

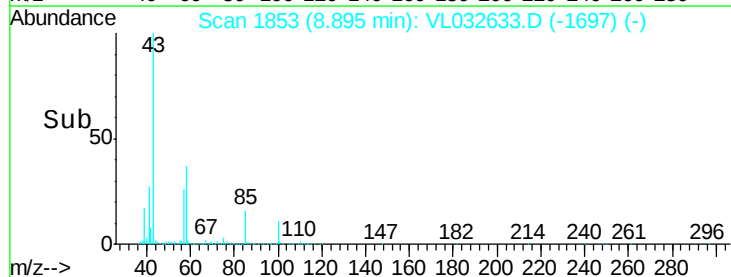
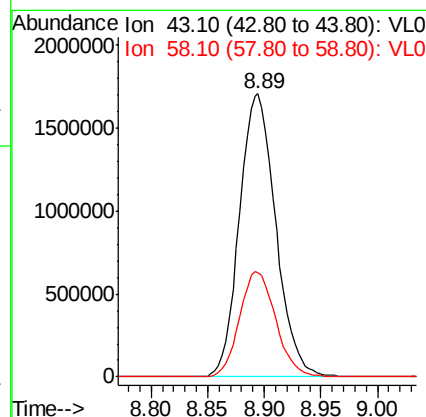
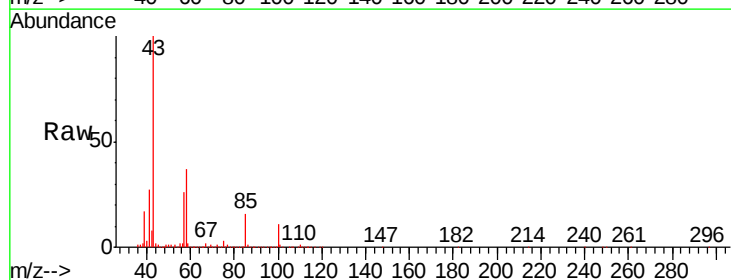
Manual Integrations
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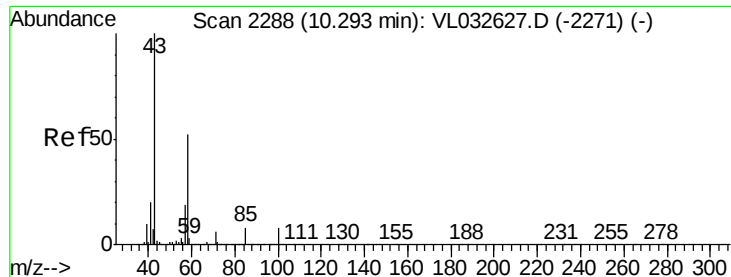
MMDadoda
10/19/2018 4:36:30 PM



#50
4-Methyl-2-Pentanone
Concen: 17.48 ppbv
RT: 8.89 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 43 Resp: 3814769
Ion Ratio Lower Upper
43 100
58 37.3 29.7 44.5





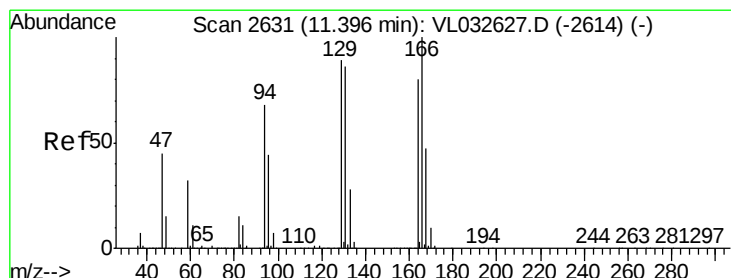
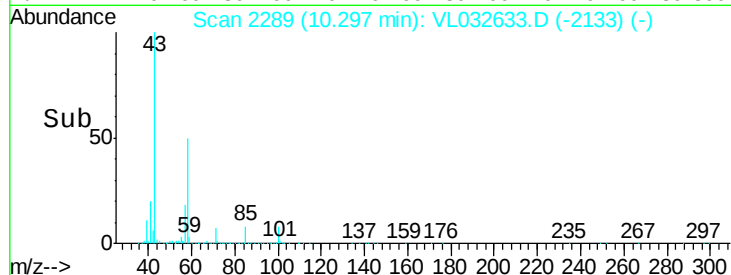
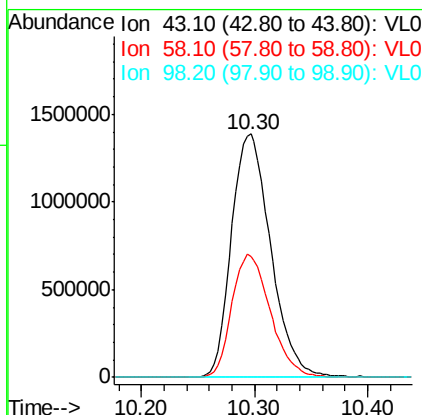
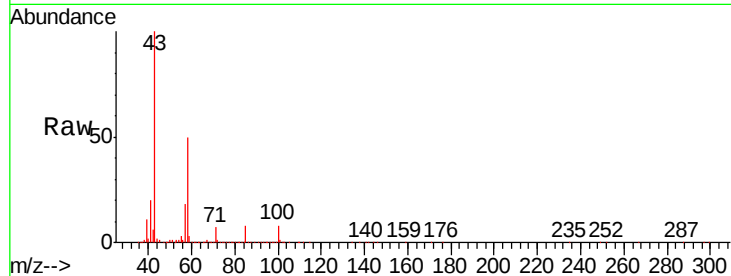
#51
2-Hexanone
Concen: 19.62 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 3349001
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.5 0.4 0.6

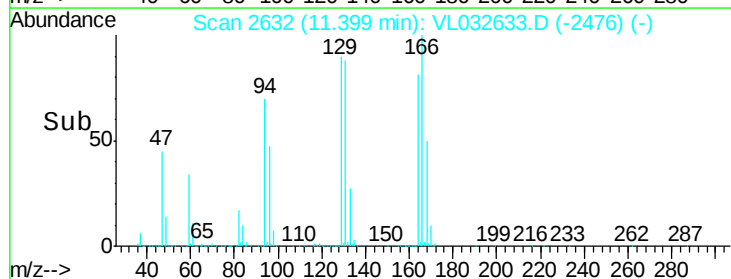
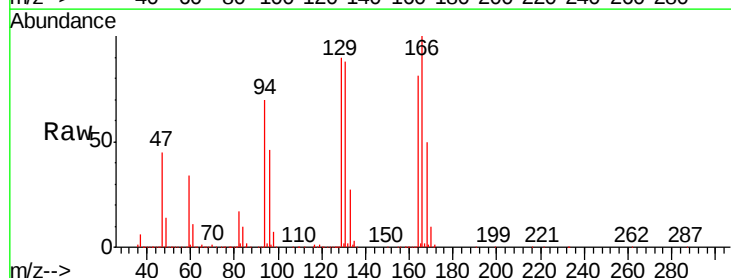
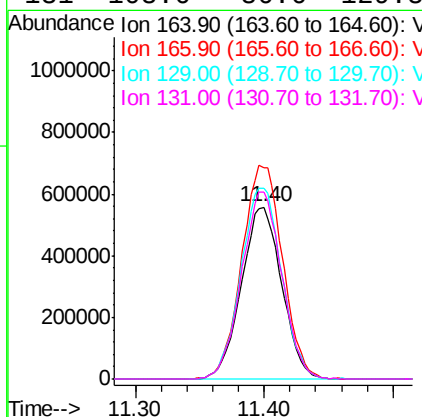
Manual Integrations
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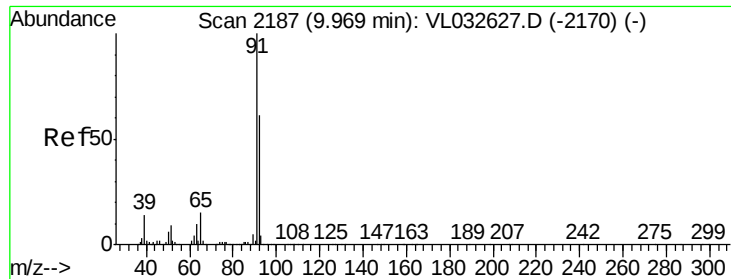
MMDadoda
10/19/2018 4:36:30 PM



#52
Tetrachloroethene
Concen: 17.32 ppbv
RT: 11.40 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 164 Resp: 1214764
Ion Ratio Lower Upper
164 100
166 123.2 100.5 150.7
129 110.9 90.0 135.0
131 108.6 86.6 129.8





#53

Toluene

Concen: 18.73 ppbv

RT: 9.97 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 4657051

Ion Ratio Lower Upper

91 100

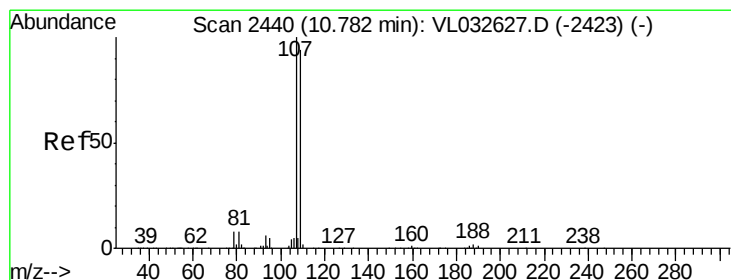
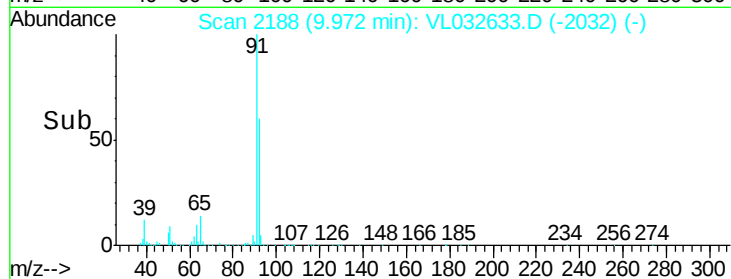
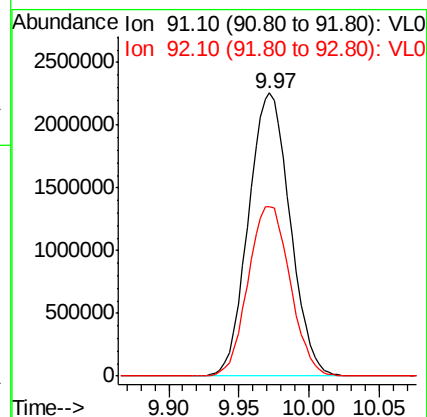
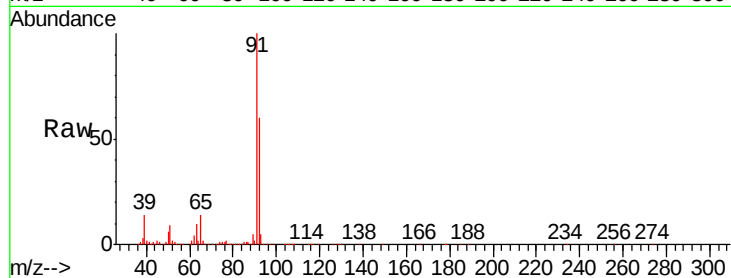
92 60.7 48.4 72.6

Manual Integrations

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MMDadoda

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#54

1,2-Dibromoethane

Concen: 17.47 ppbv

RT: 10.79 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL032633.D

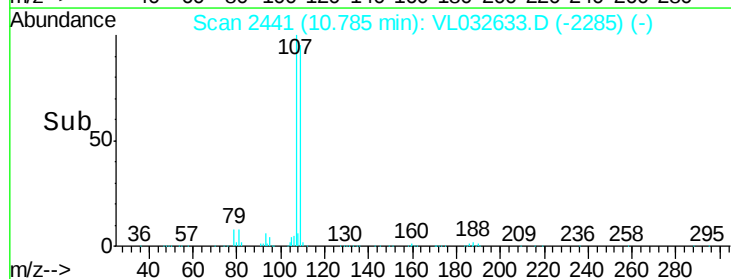
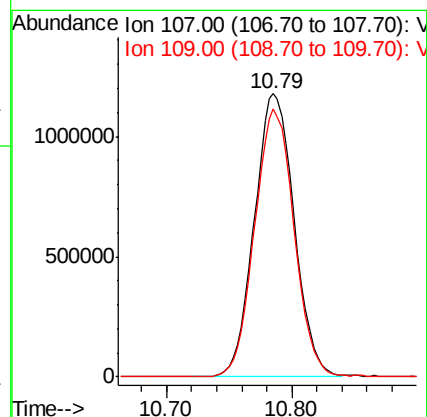
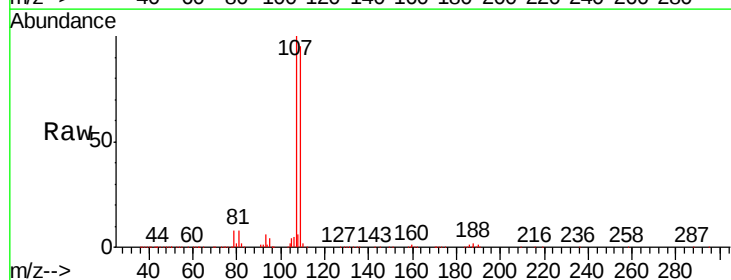
Acq: 17 Oct 2018 6:37

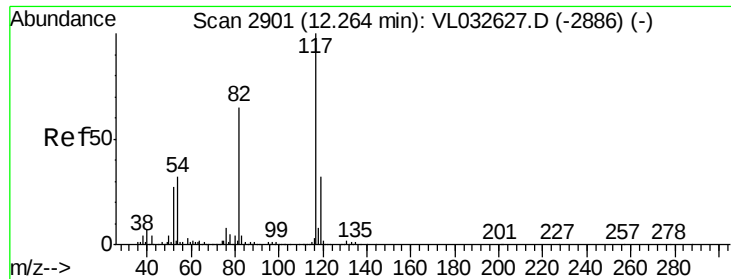
Tgt Ion: 107 Resp: 2589992

Ion Ratio Lower Upper

107 100

109 94.5 75.3 112.9





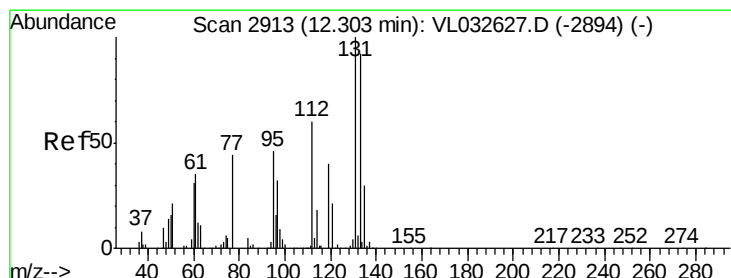
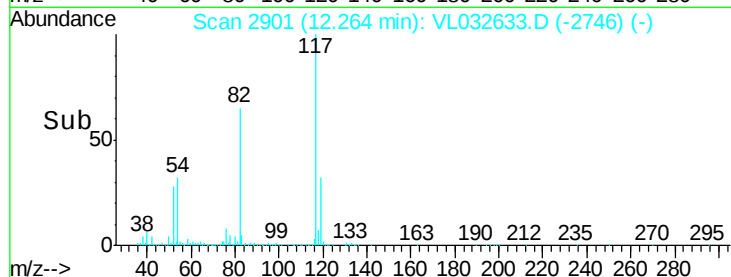
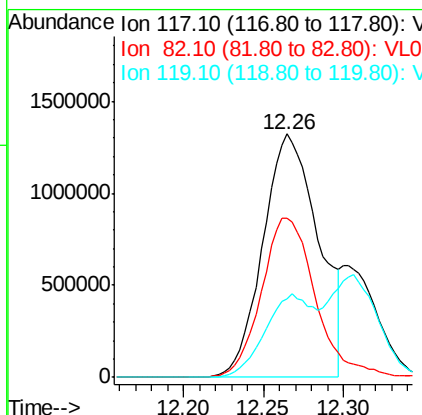
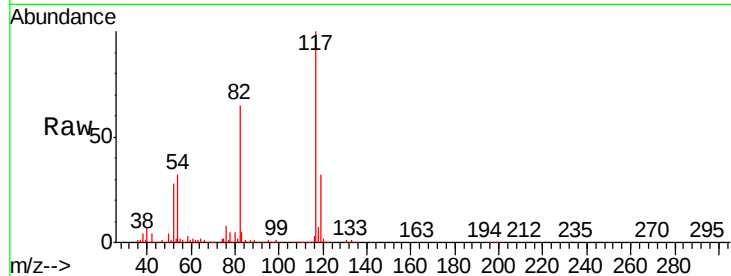
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.26 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 3190992
Ion Ratio Lower Upper
117 100
82 63.9 52.7 79.1
119 0.0 26.7 40.1#

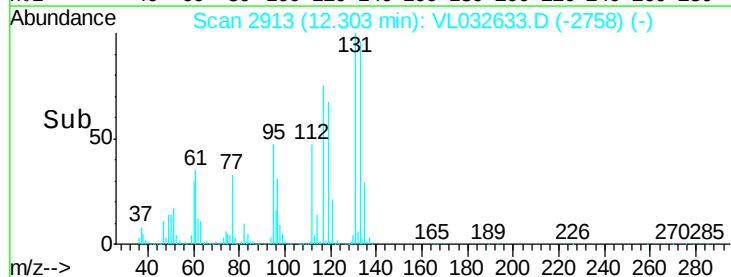
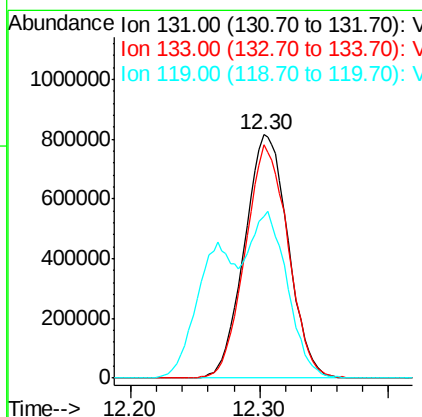
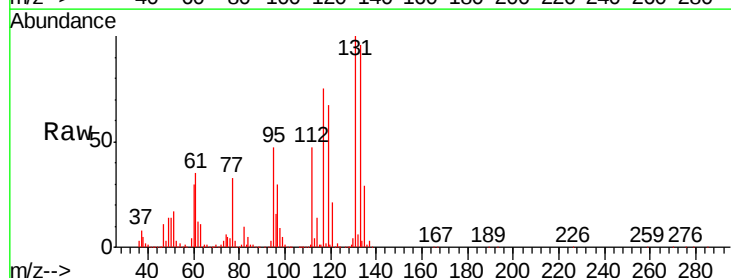
Manual Integrations
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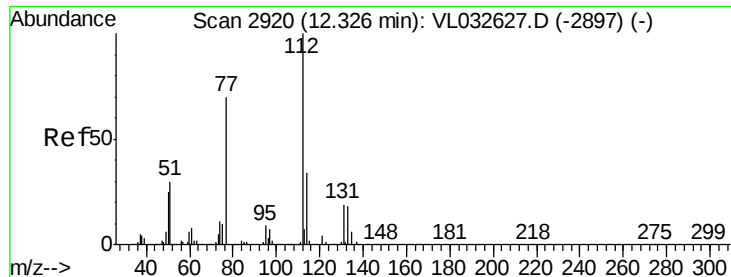
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.29 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion:131 Resp: 1917471
Ion Ratio Lower Upper
131 100
133 94.5 75.4 113.2
119 59.2 49.1 73.7





#57

Chlorobenzene

Concen: 13.41 ppbv

RT: 12.33 min Scan# 2920

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 112 Resp: 3243323

Ion Ratio Lower Upper

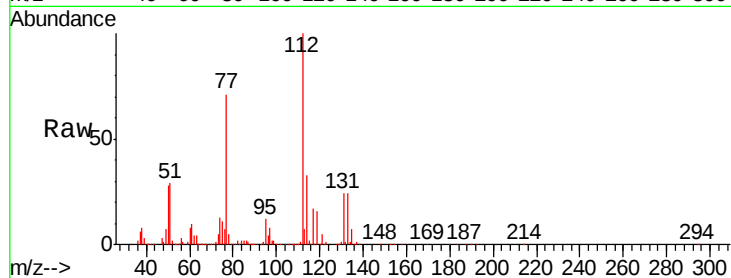
112 100

77 71.1 56.8 85.2

114 32.6 30.3 37.1

Manual Integrations
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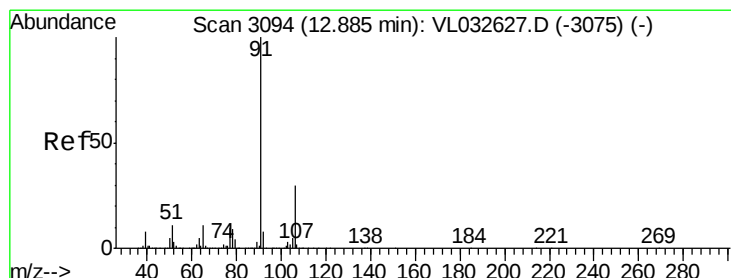
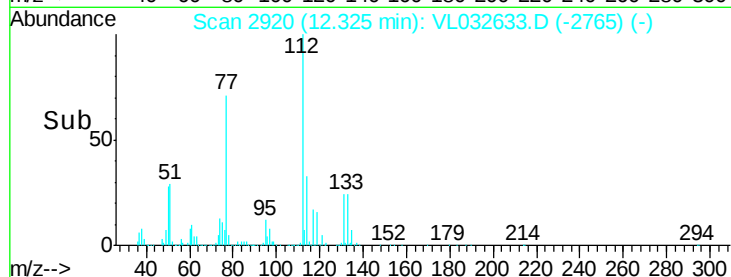
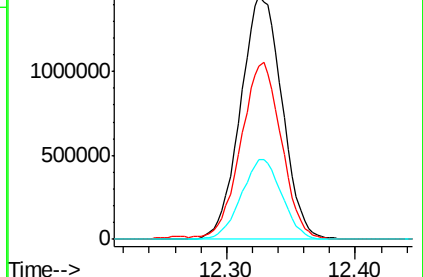
MMDadoda
10/19/2018 4:36:30 PM



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: 16.64 ppbv

RT: 12.89 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VL032633.D

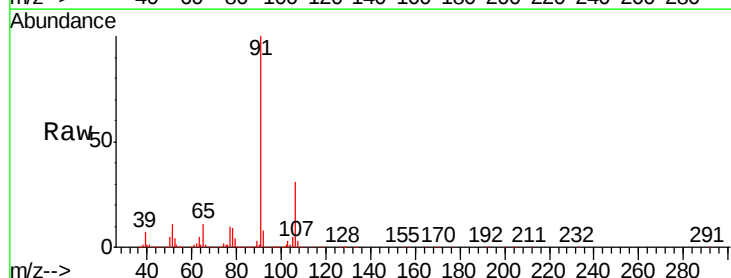
Acq: 17 Oct 2018 6:37

Tgt Ion: 91 Resp: 5842931

Ion Ratio Lower Upper

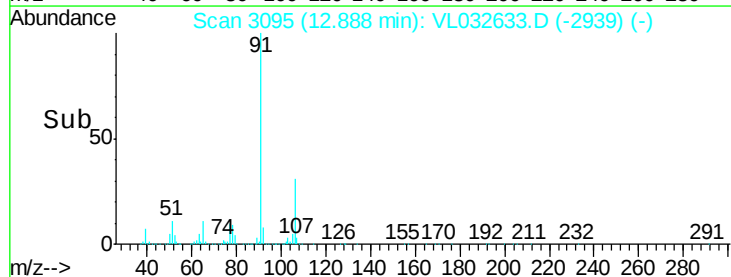
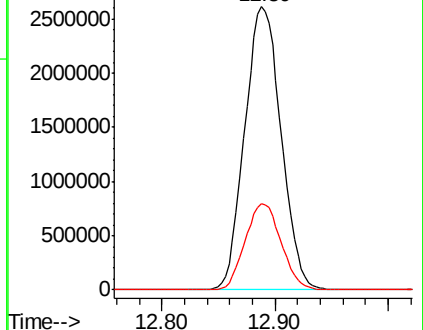
91 100

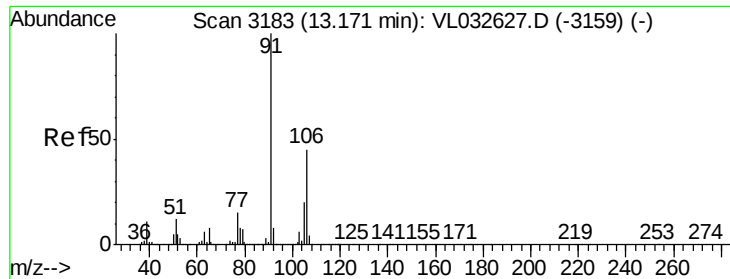
106 30.5 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





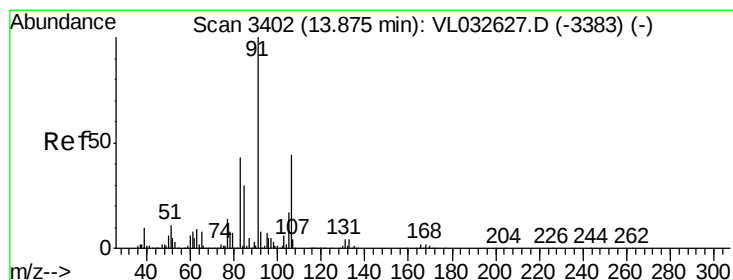
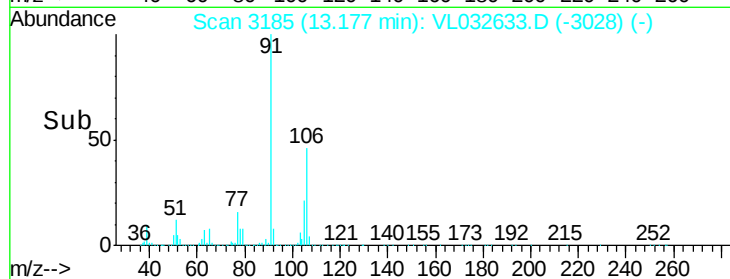
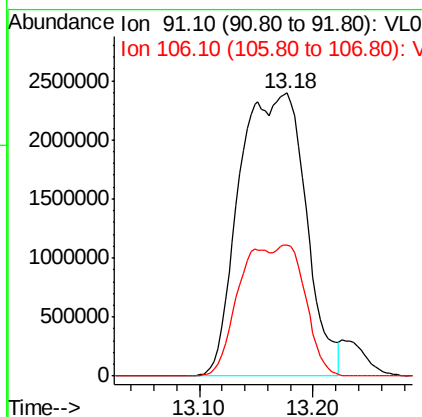
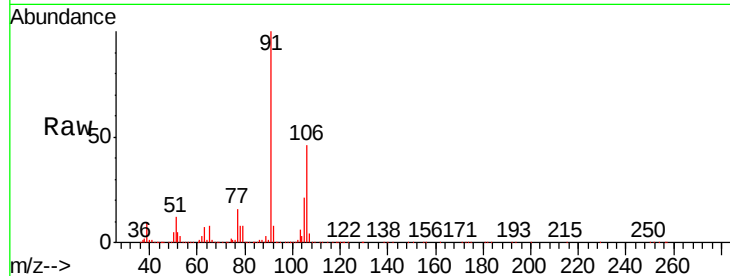
#59
m/p-Xylene
Concen: 30.44 ppbv m
RT: 13.18 min Scan# 3185
Delta R.T. 0.01 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 9696067
Ion Ratio Lower Upper
91 100
106 45.4 35.9 53.9

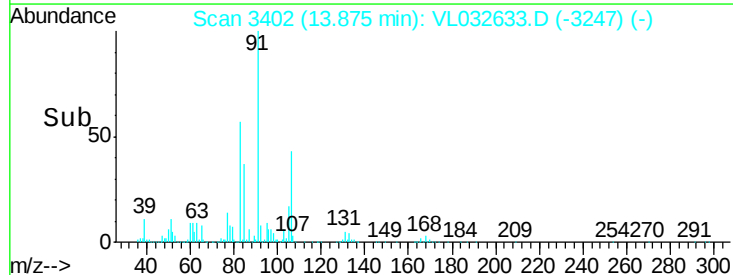
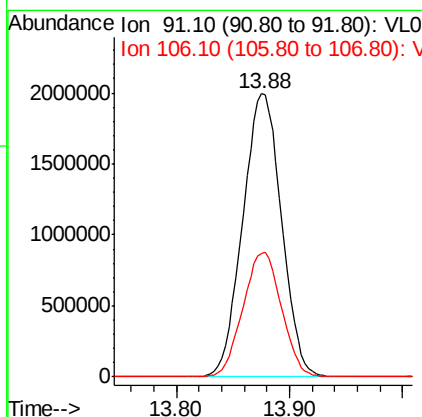
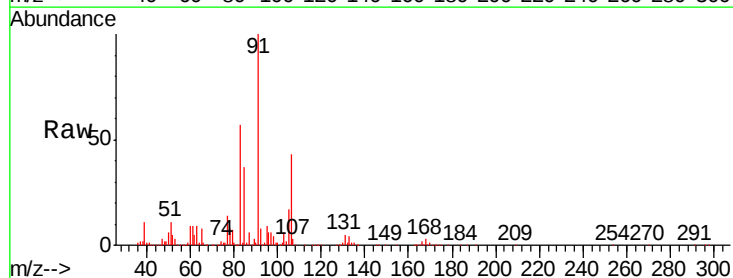
Manual Integrations
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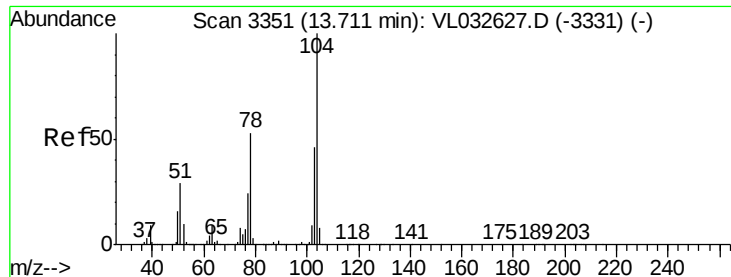
MMDadoda
10/19/2018 4:36:30 PM



#60
o-Xylene
Concen: 15.12 ppbv
RT: 13.88 min Scan# 3402
Delta R.T. -0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 91 Resp: 4751845
Ion Ratio Lower Upper
91 100
106 43.9 22.1 66.1





#61

Styrene

Concen: 17.88 ppbv

RT: 13.71 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:104 Resp: 3450031

Ion Ratio Lower Upper

104 100

78 54.2 42.8 64.2

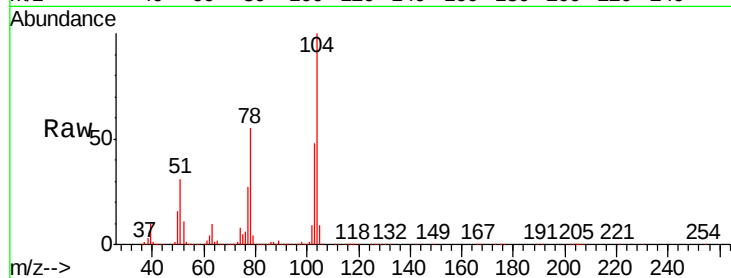
103 46.7 37.4 56.0

Manual Integrations

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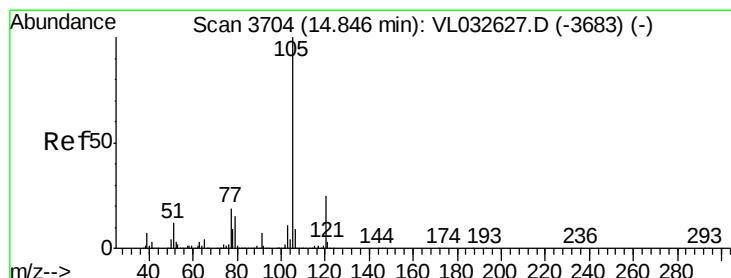
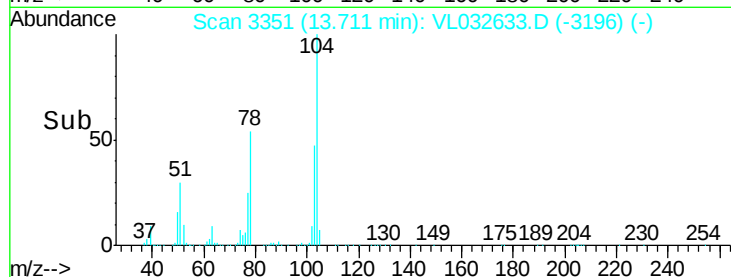
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.71

Time--> 13.60 13.70 13.80



#62

Isopropylbenzene

Concen: 14.98 ppbv

RT: 14.85 min Scan# 3706

Delta R.T. 0.01 min

Lab File: VL032633.D

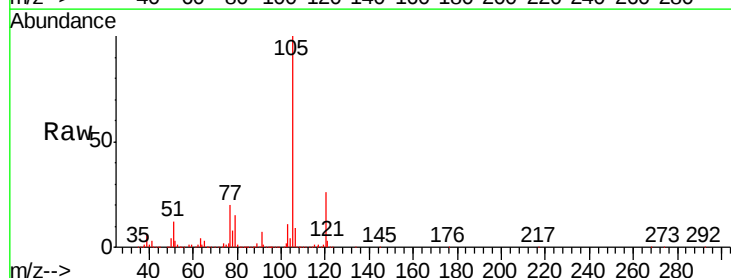
Acq: 17 Oct 2018 6:37

Tgt Ion:105 Resp: 6706470

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

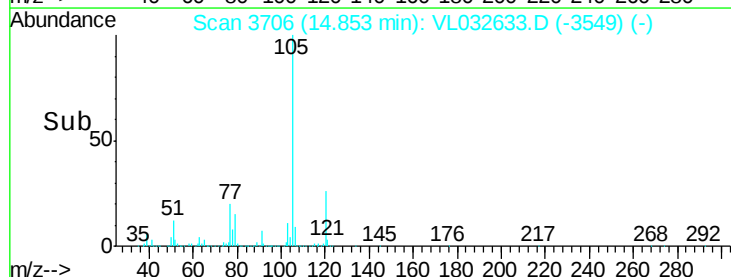


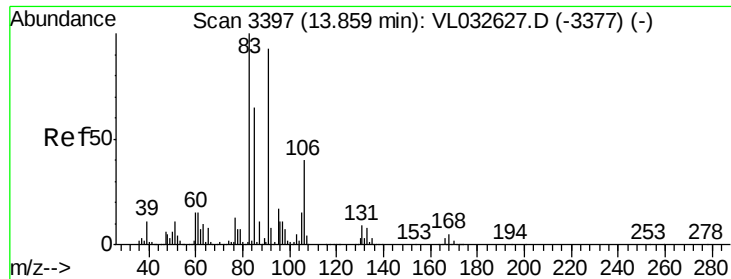
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.85

Time--> 14.70 14.80 14.90





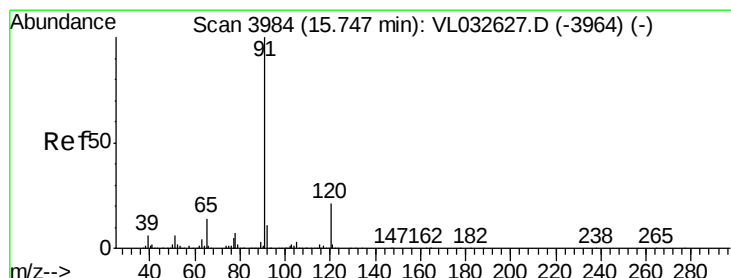
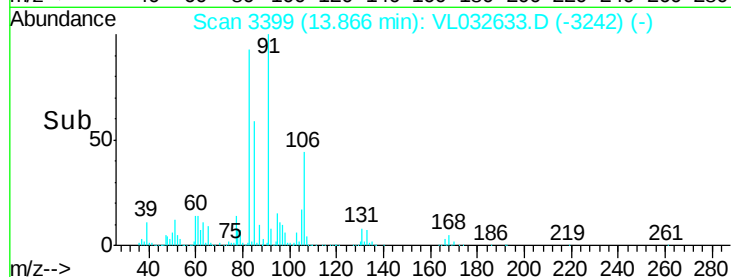
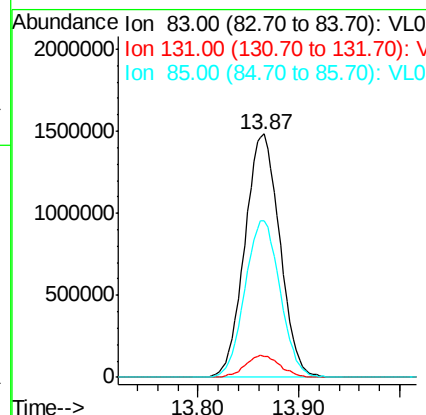
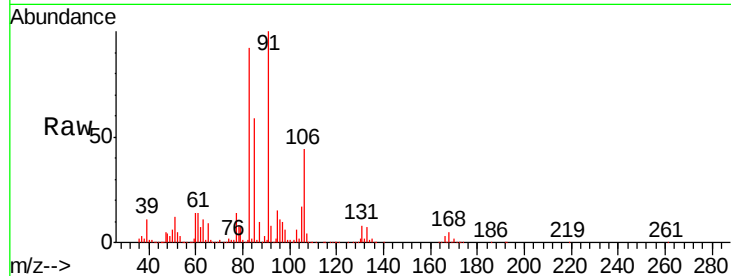
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.03 ppbv
 RT: 13.87 min Scan# 3399
 Delta R.T. 0.01 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 83 Resp: 3564327
 Ion Ratio Lower Upper
 83 100
 131 8.9 4.3 12.9
 85 64.8 32.3 96.9

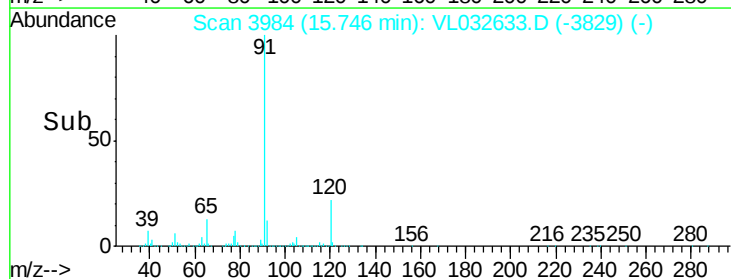
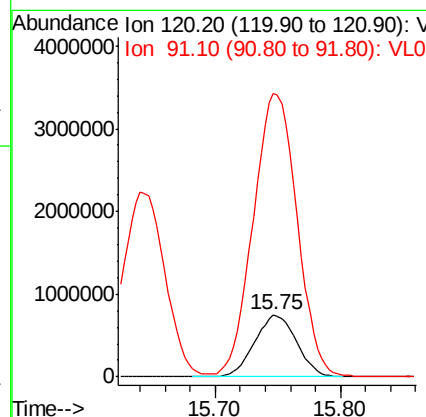
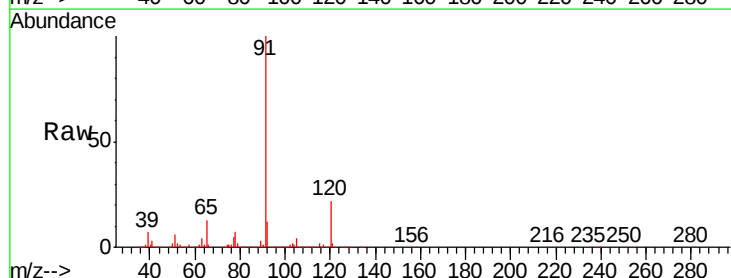
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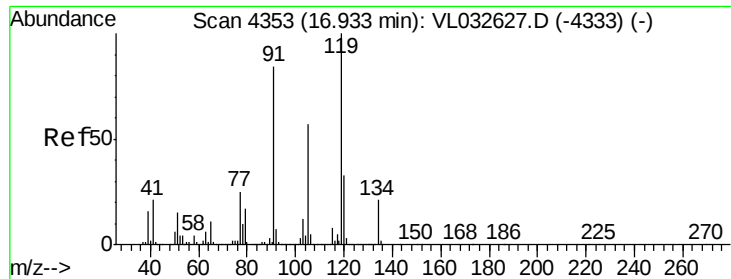
MMDadoda
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#64
 n-propylbenzene
 Concen: 15.47 ppbv
 RT: 15.75 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion: 120 Resp: 1746571
 Ion Ratio Lower Upper
 120 100
 91 477.7 390.2 585.2





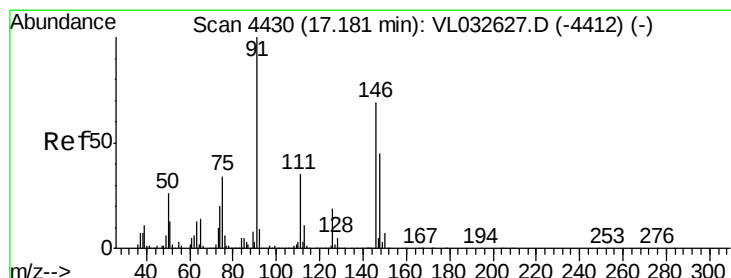
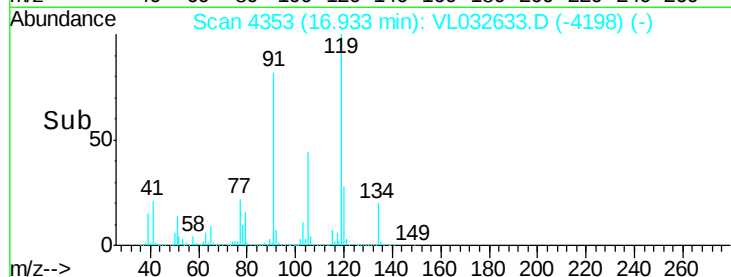
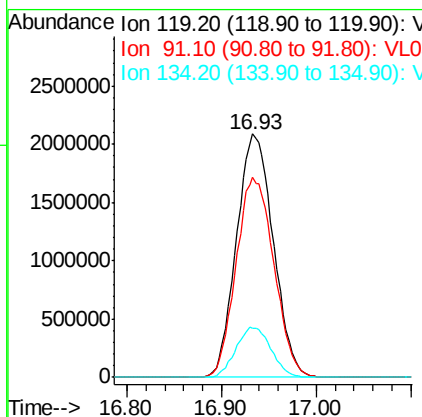
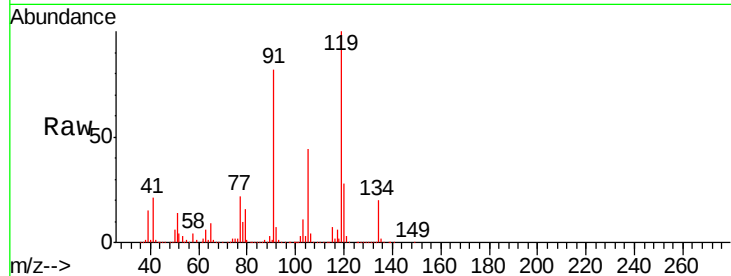
#65
 tert-Butylbenzene
 Concen: 14.86 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 5634097
 Ion Ratio Lower Upper
 119 100
 91 84.5 67.8 101.8
 134 19.6 15.8 23.8

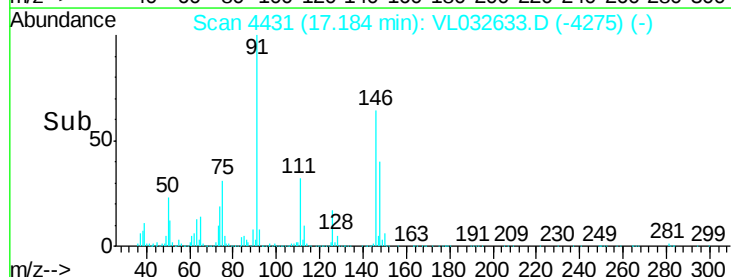
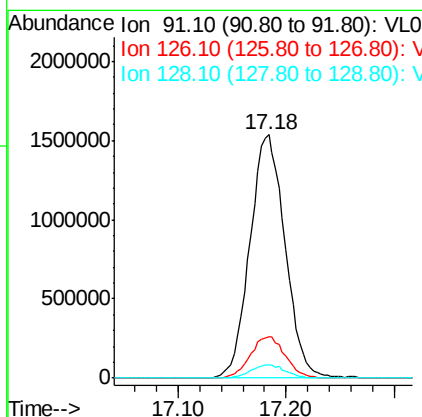
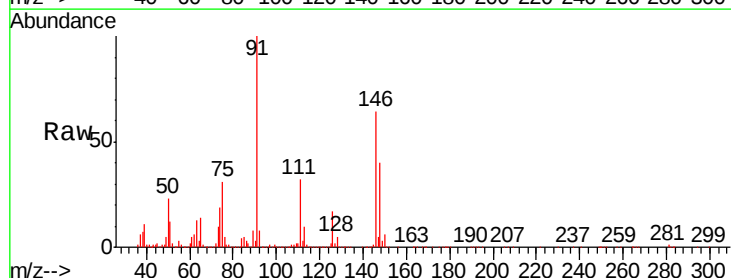
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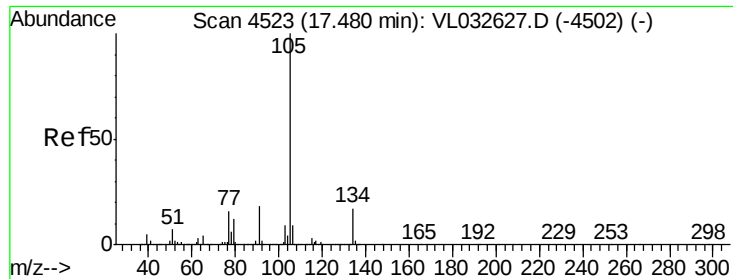
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#66
 Benzyl Chloride
 Concen: 16.64 ppbv
 RT: 17.18 min Scan# 4431
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion: 91 Resp: 3478475
 Ion Ratio Lower Upper
 91 100
 126 17.1 13.9 20.9
 128 5.5 4.3 6.5





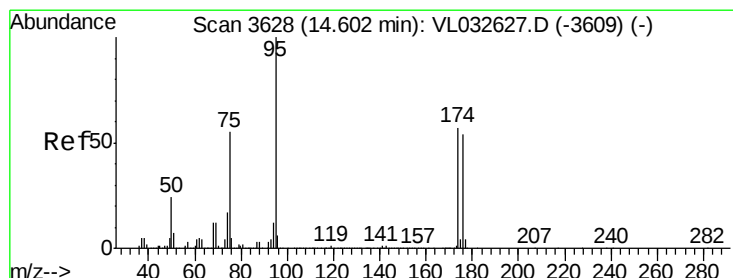
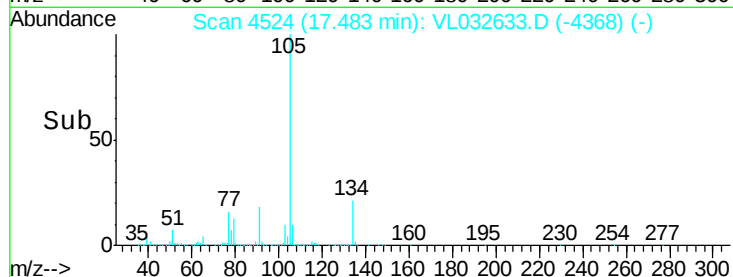
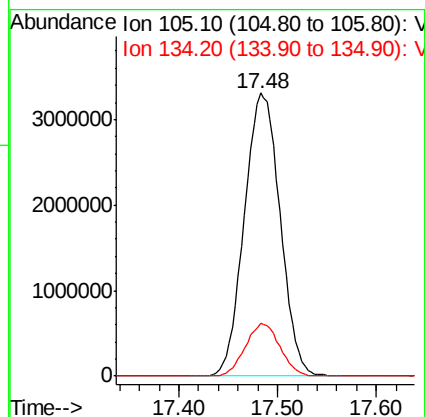
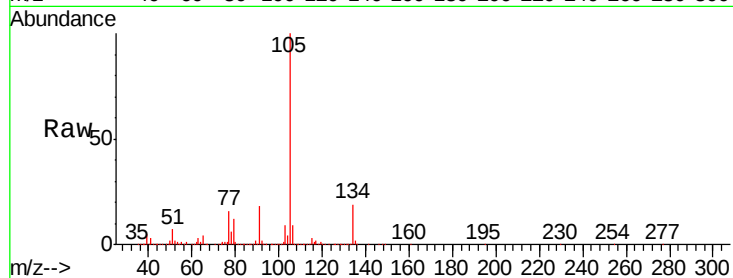
#67
 sec-Butylbenzene
 Concen: 14.67 ppbv
 RT: 17.48 min Scan# 4524
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 105 Resp: 8299133
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.2 21.2

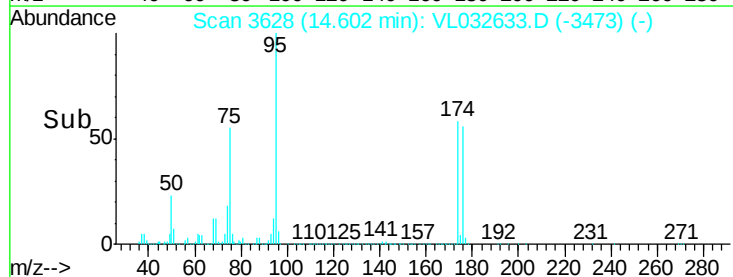
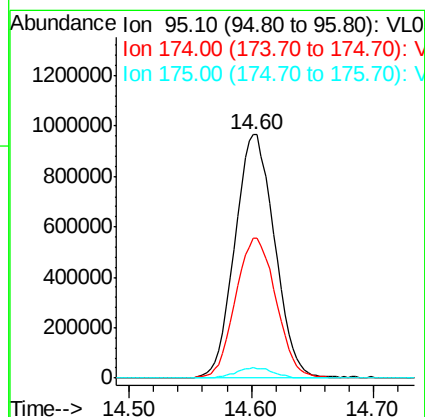
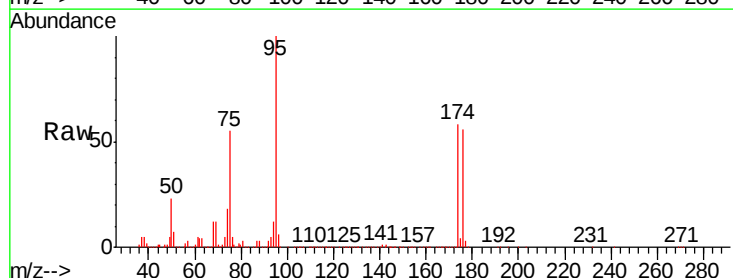
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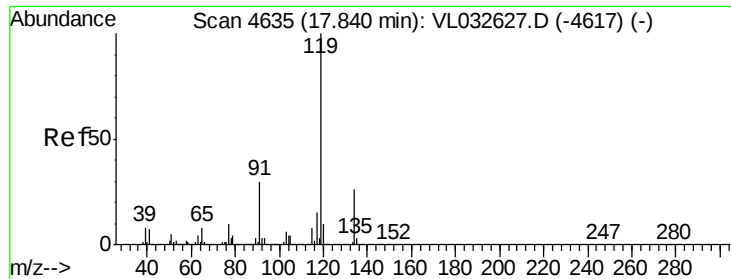
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.99 ppbv
 RT: 14.60 min Scan# 3628
 Delta R.T. -0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion: 95 Resp: 2171787
 Ion Ratio Lower Upper
 95 100
 174 59.0 46.0 69.0
 175 4.2 3.4 5.0





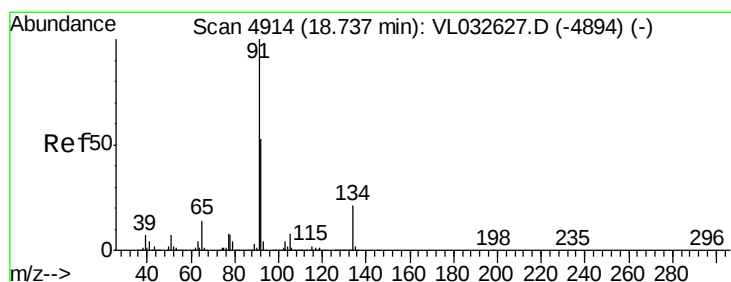
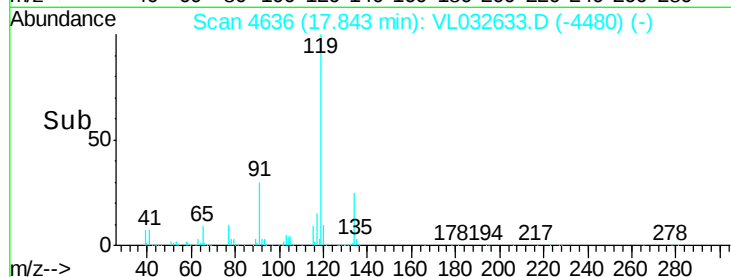
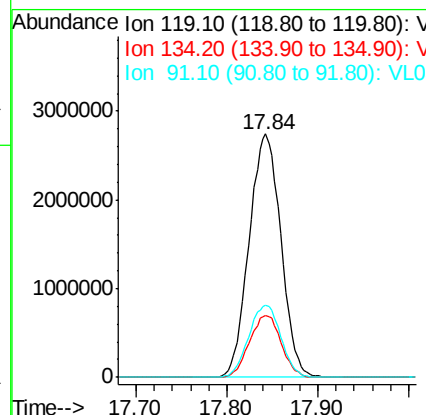
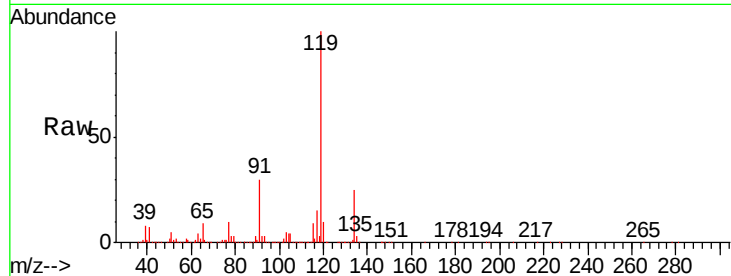
#69
p-Isopropyltoluene
Concen: 15.33 ppbv
RT: 17.84 min Scan# 4636
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 6652523
Ion Ratio Lower Upper
119 100
134 25.5 20.2 30.2
91 30.0 24.0 36.0

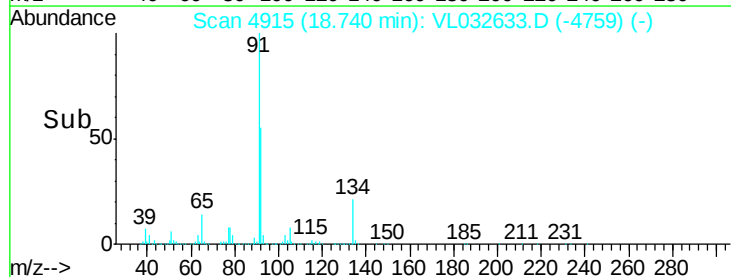
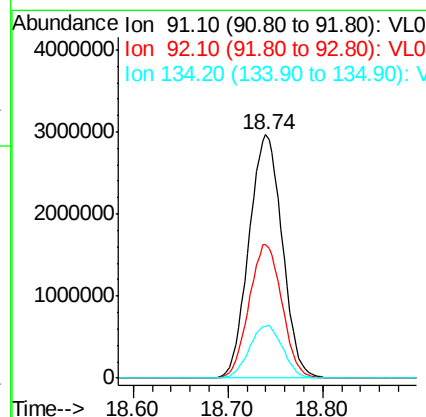
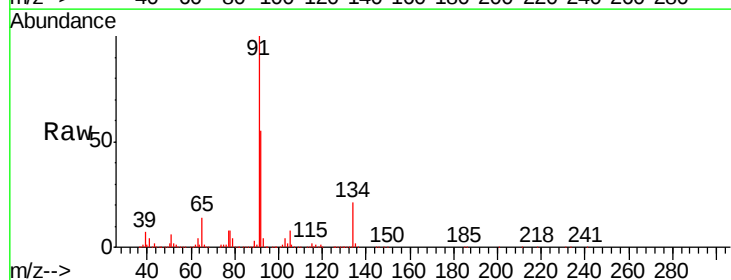
Manual Integrations
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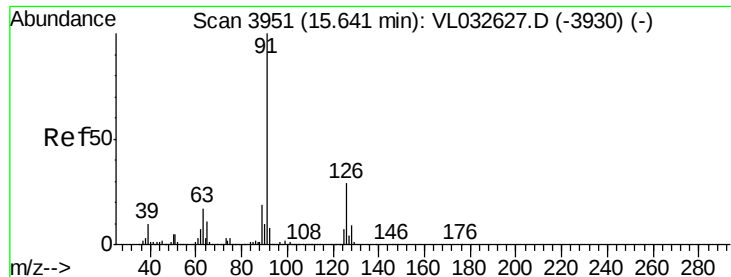
MMDadoda
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#70
n-Butylbenzene
Concen: 15.30 ppbv
RT: 18.74 min Scan# 4915
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion: 91 Resp: 7236481
Ion Ratio Lower Upper
91 100
92 54.4 43.0 64.4
134 21.7 17.0 25.6





#71

2-Chlorotoluene

Concen: 16.01 ppbv

RT: 15.64 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 5271127

Ion Ratio Lower Upper

91 100

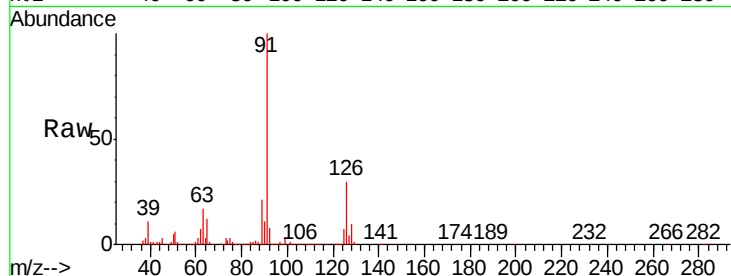
126 29.6 11.8 47.4

Manual Integrations

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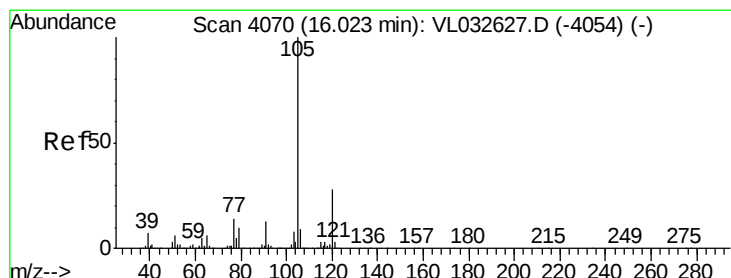
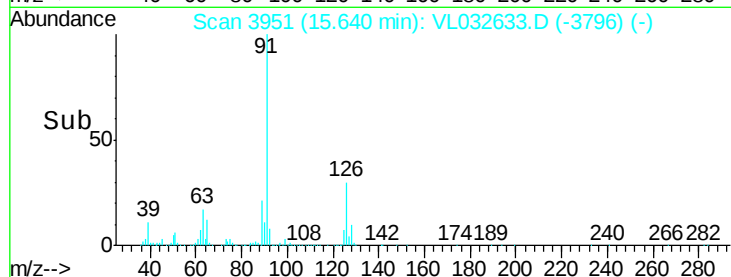
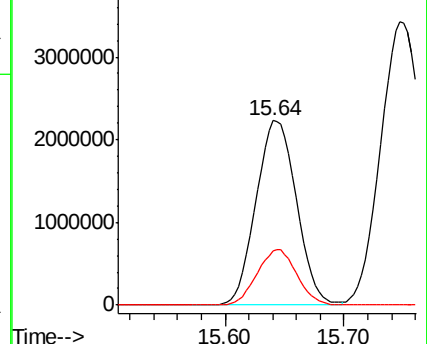
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 16.27 ppbv

RT: 16.03 min Scan# 4071

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Tgt Ion: 105 Resp: 5519805

Ion Ratio Lower Upper

105 100

120 29.2 23.7 35.5

91 13.0 10.4 15.6

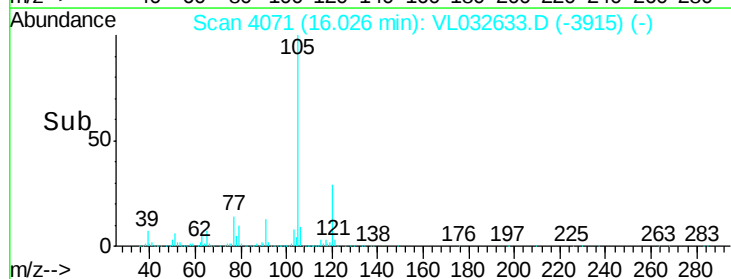
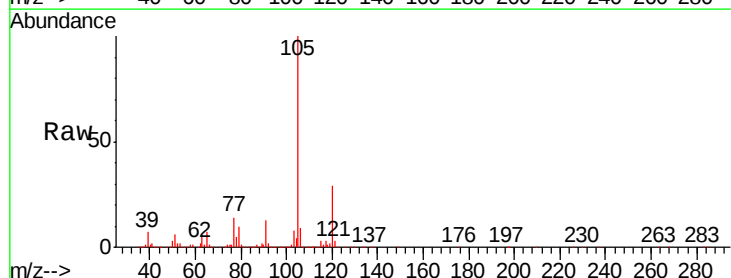
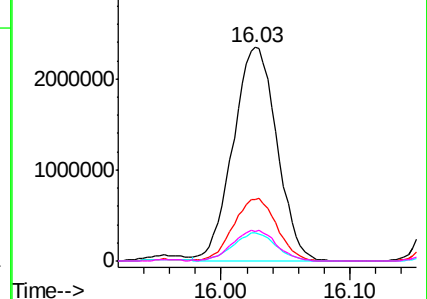
77 14.4 11.4 17.2

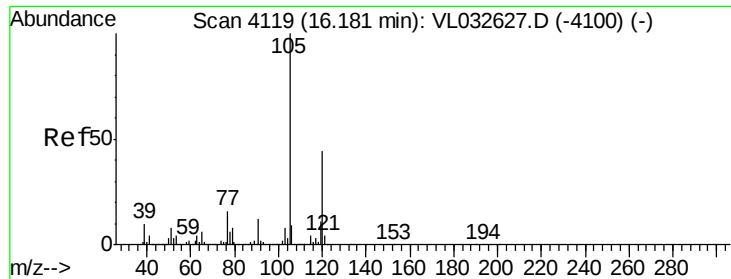
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





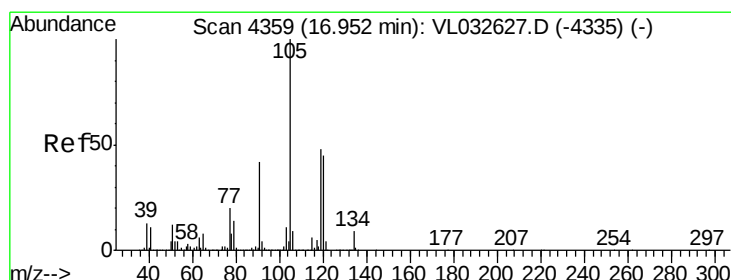
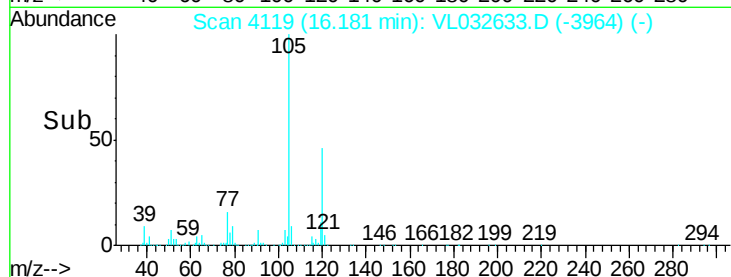
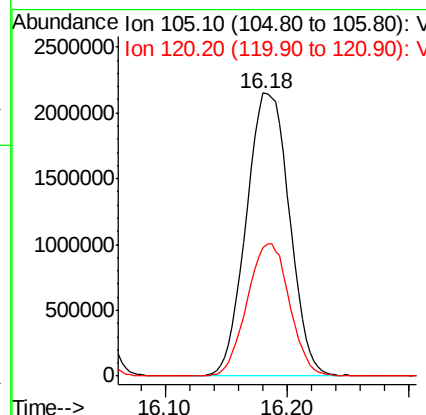
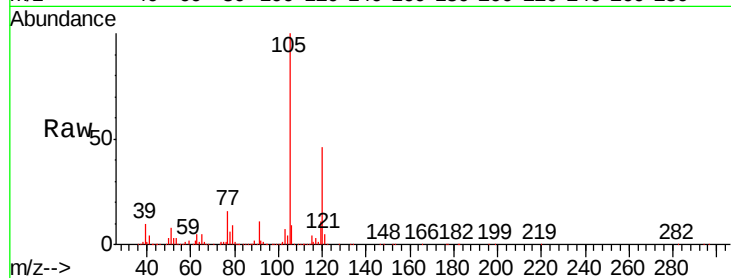
#73
 1,3,5-Trimethylbenzene
 Concen: 15.56 ppbv
 RT: 16.18 min Scan# 4119
 Delta R.T. -0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:105 Resp: 5251320
 Ion Ratio Lower Upper
 105 100
 120 45.6 35.4 53.2

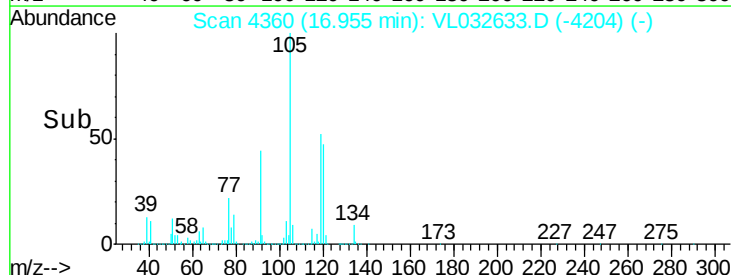
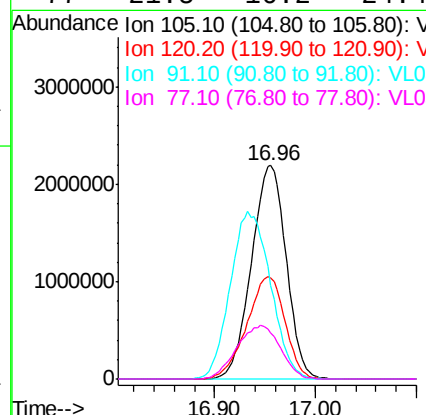
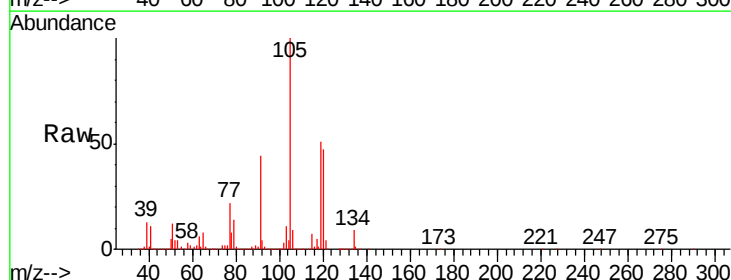
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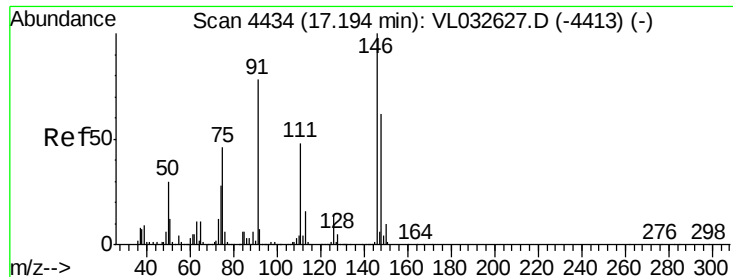
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#74
 1,2,4-Trimethylbenzene
 Concen: 14.05 ppbv
 RT: 16.96 min Scan# 4360
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Tgt Ion:105 Resp: 5230402
 Ion Ratio Lower Upper
 105 100
 120 47.4 35.8 53.8
 91 43.5 33.2 49.8
 77 21.5 16.2 24.4





#75

1,3-Dichlorobenzene

Concen: 13.35 ppbv

RT: 17.19 min Scan# 4434

Delta R.T. -0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 2888938

Ion Ratio Lower Upper

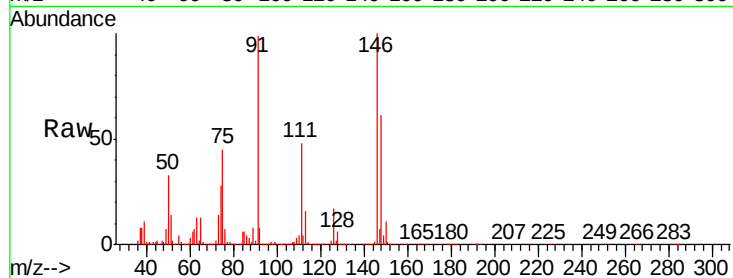
146 100

111 48.9 24.4 73.2

148 63.5 31.9 95.9

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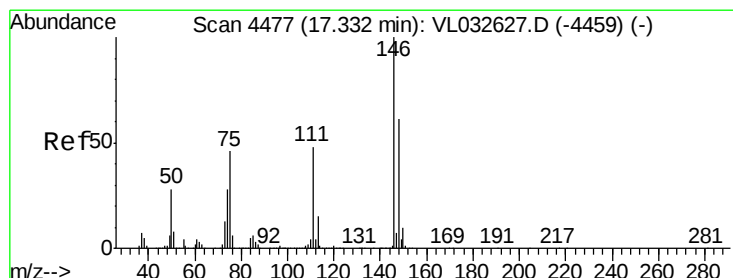
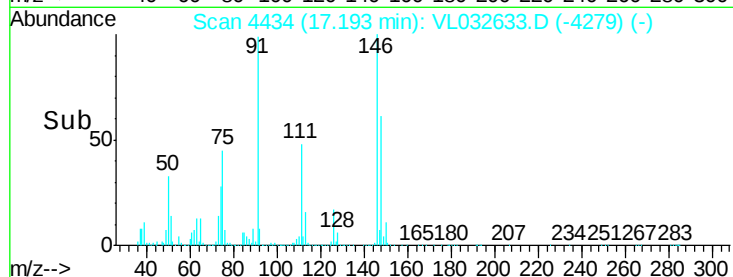
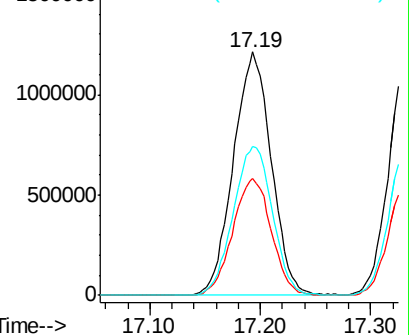
MMDadoda
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.77 ppbv

RT: 17.33 min Scan# 4478

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

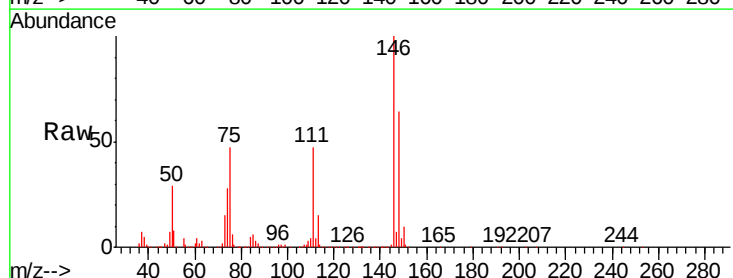
Tgt Ion:146 Resp: 2883110

Ion Ratio Lower Upper

146 100

111 47.4 23.7 71.1

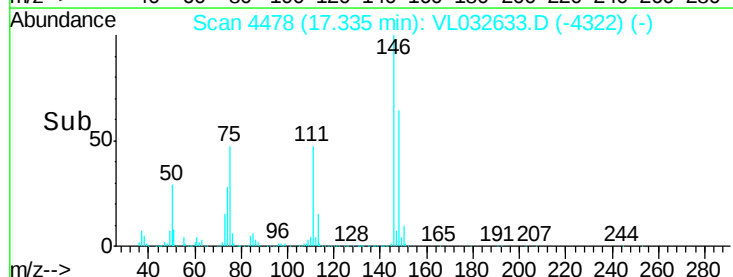
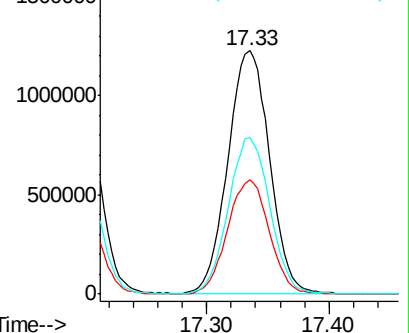
148 64.4 32.1 96.3

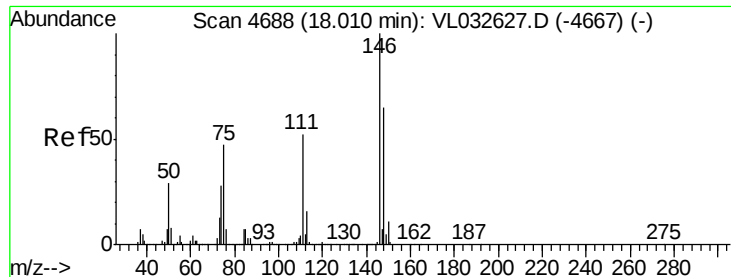


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 14.26 ppbv

RT: 18.01 min Scan# 4689

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 2897207

Ion Ratio Lower Upper

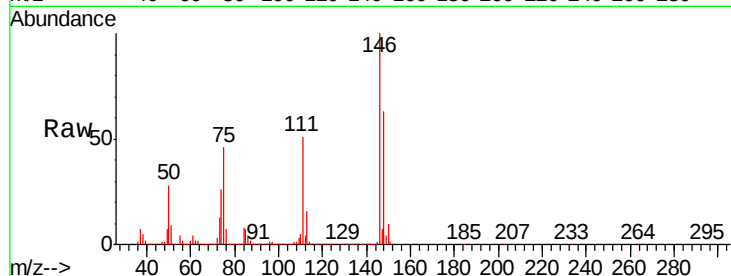
146 100

111 50.9 25.3 75.8

148 63.7 31.9 95.9

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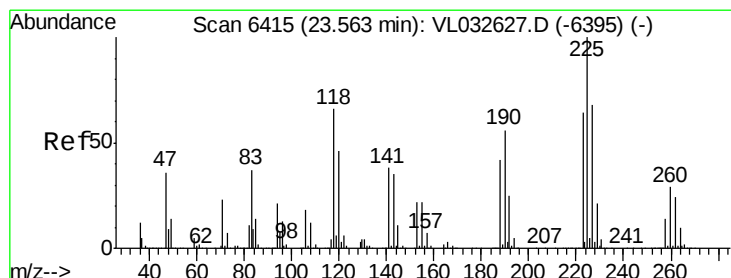
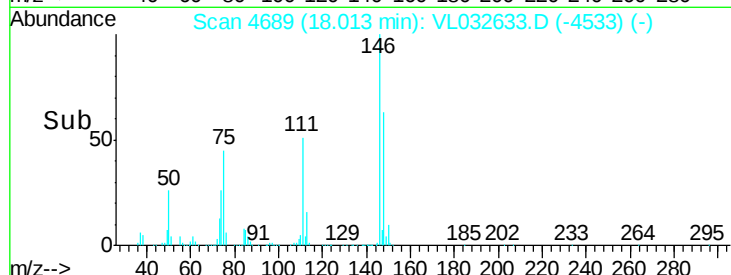
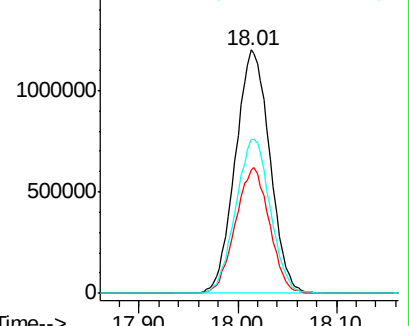
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 12.71 ppbv

RT: 23.57 min Scan# 6416

Delta R.T. 0.00 min

Lab File: VL032633.D

Acq: 17 Oct 2018 6:37

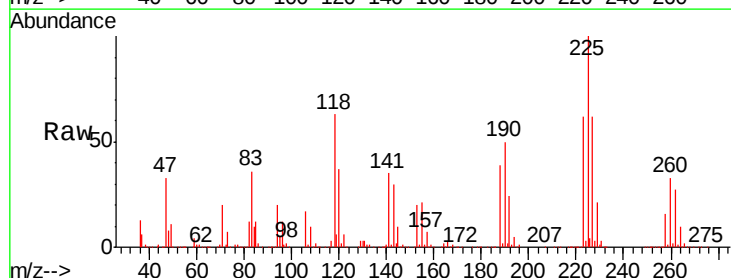
Tgt Ion:225 Resp: 1252041

Ion Ratio Lower Upper

225 100

223 63.1 50.7 76.1

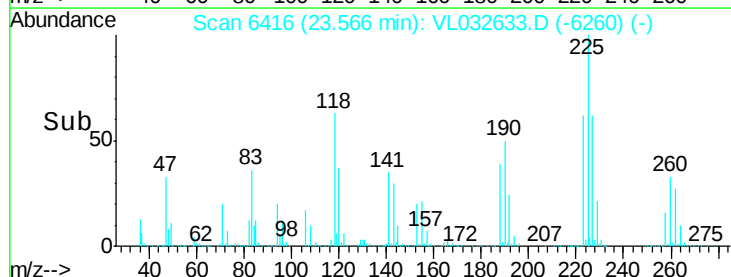
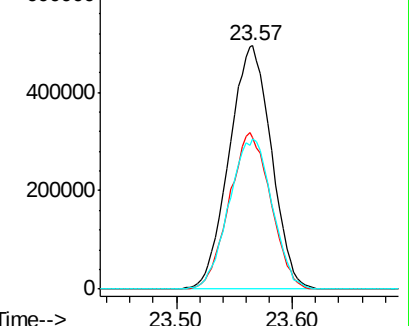
227 63.0 50.7 76.1

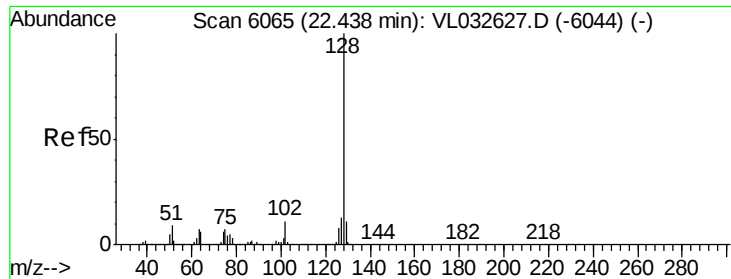


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





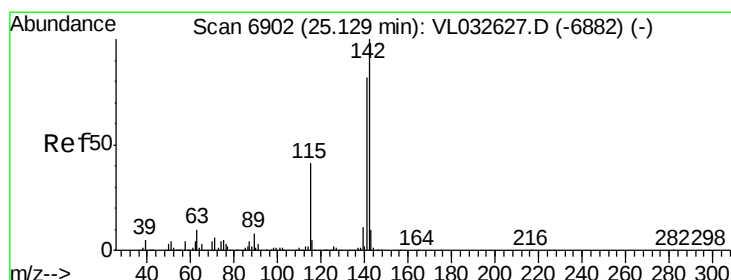
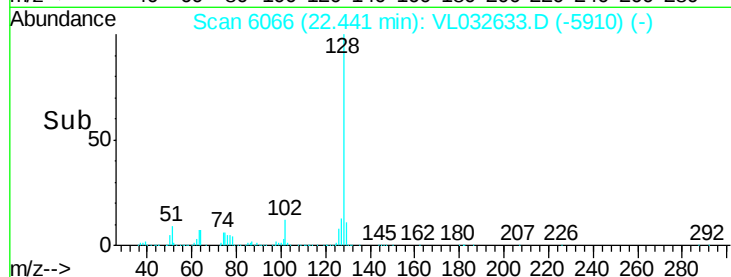
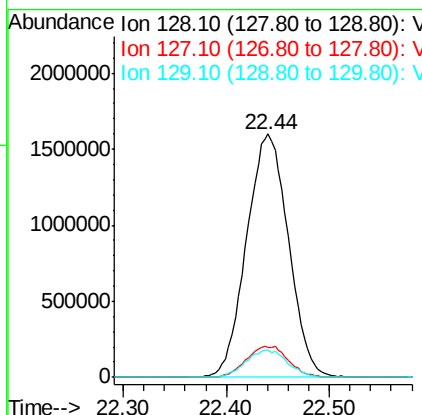
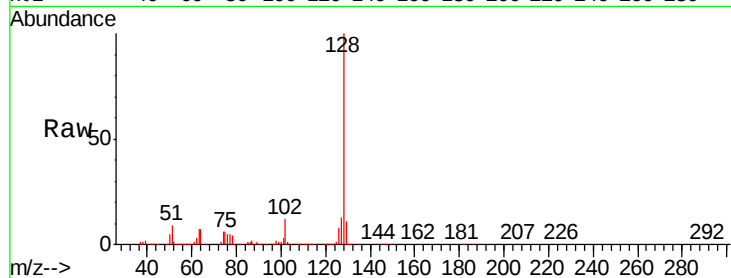
#79
Naphthalene
Concen: 17.95 ppbv
RT: 22.44 min Scan# 6066
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:128 Resp: 4505134
Ion Ratio Lower Upper
128 100
127 12.5 10.3 15.5
129 11.1 8.6 13.0

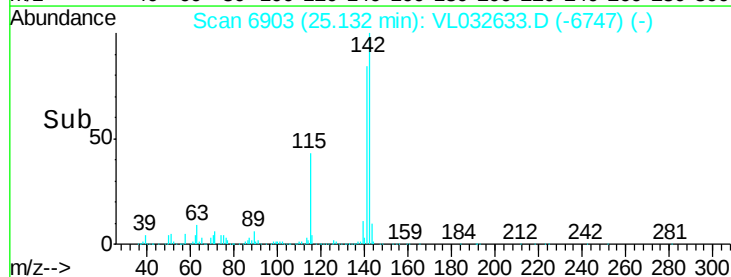
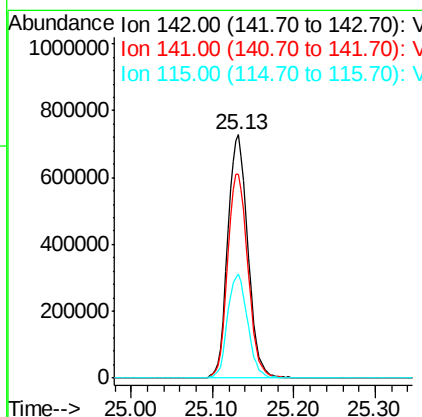
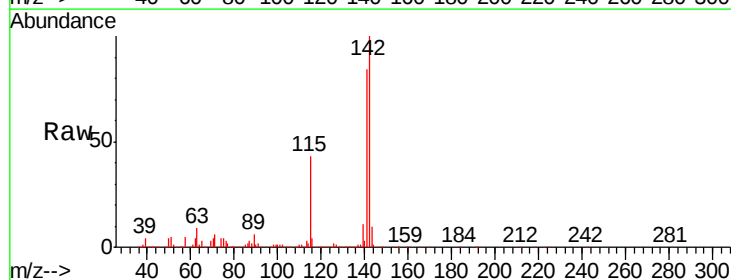
Manual Integrations
APPROVED

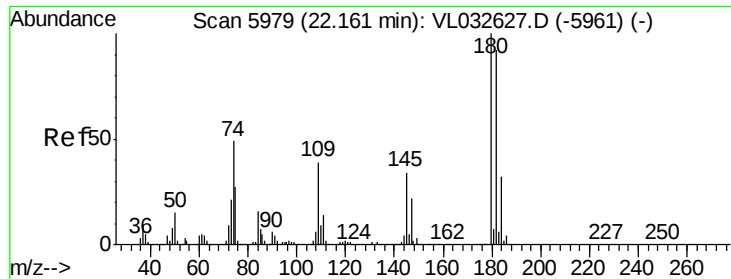
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#80
Naphthalene, 2-methyl-
Concen: 26.07 ppbv
RT: 25.13 min Scan# 6903
Delta R.T. 0.00 min
Lab File: VL032633.D
Acq: 17 Oct 2018 6:37

Tgt Ion:142 Resp: 1273246
Ion Ratio Lower Upper
142 100
141 84.8 67.5 101.3
115 42.8 33.5 50.3





#81
 1,2,4-Trichlorobenzene
 Concen: 17.08 ppbv
 RT: 22.16 min Scan# 5980
 Delta R.T. 0.00 min
 Lab File: VL032633.D
 Acq: 17 Oct 2018 6:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2121072
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.5 114.7
 184 30.4 24.7 37.1

Manual Integrations
 APPROVED

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