

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032420.D
 Acq On : 21 Aug 2018 12:30
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:52 PM

Quant Time: Aug 22 05:20:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1779804	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3454790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3769330	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2675351	9.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	1690152	11.91	ppbv	99
3) Chlorodifluoromethane	3.04	51	1689475	10.25	ppbv	100
4) Chloromethane	3.20	50	1056213	10.76	ppbv	97
5) Vinyl Chloride	3.32	62	1007192	10.77	ppbv	99
6) Bromomethane	3.55	94	560058	11.17	ppbv	98
7) Chloroethane	3.64	64	360789	11.00	ppbv	100
8) Dichlorotetrafluoroethane	3.25	85	2089882	10.39	ppbv	99
9) Propene	3.07	41	815426	11.56	ppbv	100
10) Heptane	8.31	43	2494563	11.74	ppbv	100
11) Trichlorofluoromethane	4.04	101	2010706	10.10	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1506957	11.24	ppbv	98
13) Ethanol	3.68	45	186899	10.31	ppbv	98
14) Bromoethene	3.83	108	628594	10.84	ppbv	100
15) Acetone	3.94	43	1551081	9.17	ppbv	99
16) 1,3-Butadiene	3.40	39	916011	13.12	ppbv #	79
17) tert-Butyl alcohol	4.40	59	756051	26.65	ppbv	98
18) 1,1-Dichloroethene	4.39	96	664119	10.63	ppbv	92
19) Isopropyl Alcohol	4.06	45	1259263	11.06	ppbv	100
20) Methylene Chloride	4.45	84	632103	9.90	ppbv	94
21) Allyl Chloride	4.52	41	1268232	11.88	ppbv	99
22) trans-1,2-Dichloroethene	5.01	96	636307	10.10	ppbv	97
23) Vinyl Acetate	5.20	43	2975746	10.19	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2042102	9.69	ppbv	99
25) Ethyl Acetate	5.82	43	4059250	11.20	ppbv	100
26) Hexane	5.83	57	1895062	11.73	ppbv	98
27) Carbon Disulfide	4.66	76	1935199	12.83	ppbv	99
28) Methyl tert-Butyl Ether	5.16	73	2479335	11.56	ppbv	100
29) Chloroform	5.90	83	2717776	11.48	ppbv	98
30) Cyclohexane	7.30	84	1401579	11.39	ppbv	98
31) cis-1,2-Dichloroethene	5.69	61	1751604	11.08	ppbv	97
32) 1,1,1-Trichloroethane	6.67	97	2513203	10.91	ppbv	99
34) 2-Butanone	5.38	43	2510274	10.68	ppbv	99
35) Carbon Tetrachloride	7.19	117	2375125	11.66	ppbv	98
36) Benzene	7.06	78	3646062	12.45	ppbv	99
37) 1,2-Dichloroethane	6.47	62	1927003	10.84	ppbv	100
38) Trichloroethene	8.02	130	1224280	11.92	ppbv	98
39) 1,2-Dichloropropane	7.79	63	1464272	11.97	ppbv	98
40) 1,4-Dioxane	8.01	88	442883	11.92	ppbv	73
41) Tetrahydrofuran	6.20	42	1628455	12.90	ppbv	99
42) Bromodichloromethane	7.97	83	2796014	12.02	ppbv	100
43) Methyl Methacrylate	8.19	69	1465523	12.56	ppbv	100

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6348216	12.02	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	2042693	13.84	ppbv	100
46) cis-1,3-Dichloropropene	8.89	75	2420439	13.67	ppbv	98
47) 1,1,2-Trichloroethane	9.67	97	1511331	11.22	ppbv	98
48) Dibromochloromethane	10.51	129	2113610	11.74	ppbv	99
49) Bromoform	13.26	173	1733821	11.59	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	4113938	12.11	ppbv	100
51) 2-Hexanone	10.33	43	2775081	11.64	ppbv #	99
52) Tetrachloroethene	11.43	164	1008081	11.67	ppbv	98
53) Toluene	10.01	91	4172990	13.00	ppbv	100
54) 1,2-Dibromoethane	10.82	107	1971568	11.40	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.34	131	1535742	9.85	ppbv #	62
57) Chlorobenzene	12.37	112	2759246	9.72	ppbv	99
58) Ethyl Benzene	12.93	91	5181147	11.42	ppbv	99
59) m/p-Xylene	13.21	91	8636288m	22.42	ppbv	
60) o-Xylene	13.91	91	4071165	10.75	ppbv	99
61) Styrene	13.75	104	3178998	12.01	ppbv	100
62) Isopropylbenzene	14.89	105	5613404	10.41	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	2940599	9.24	ppbv	100
64) n-propylbenzene	15.79	120	1457356	10.45	ppbv	98
65) tert-Butylbenzene	16.97	119	4593911	9.98	ppbv	99
66) Benzyl Chloride	17.22	91	3077332	11.29	ppbv	99
67) sec-Butylbenzene	17.52	105	6841755	9.99	ppbv	99
69) p-Isopropyltoluene	17.88	119	5566645	10.62	ppbv	100
70) n-Butylbenzene	18.78	91	5903895	10.28	ppbv	99
71) 2-Chlorotoluene	15.68	91	4309252	10.33	ppbv	100
72) 4-Ethyltoluene	16.06	105	4637489	10.98	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	4343100	10.69	ppbv	100
74) 1,2,4-Trimethylbenzene	16.99	105	4291416	9.93	ppbv	98
75) 1,3-Dichlorobenzene	17.23	146	2362573	9.10	ppbv	100
76) 1,4-Dichlorobenzene	17.37	146	2365382	9.61	ppbv	100
77) 1,2-Dichlorobenzene	18.05	146	2352644	9.48	ppbv	99
78) Hexachloro-1,3-Butadiene	23.60	225	1372119	16.47	ppbv	100
79) Naphthalene	22.48	128	3985985	9.87	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1840845	21.35	ppbv	99
81) 1,2,4-Trichlorobenzene	22.20	180	1809170	10.82	ppbv	99

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

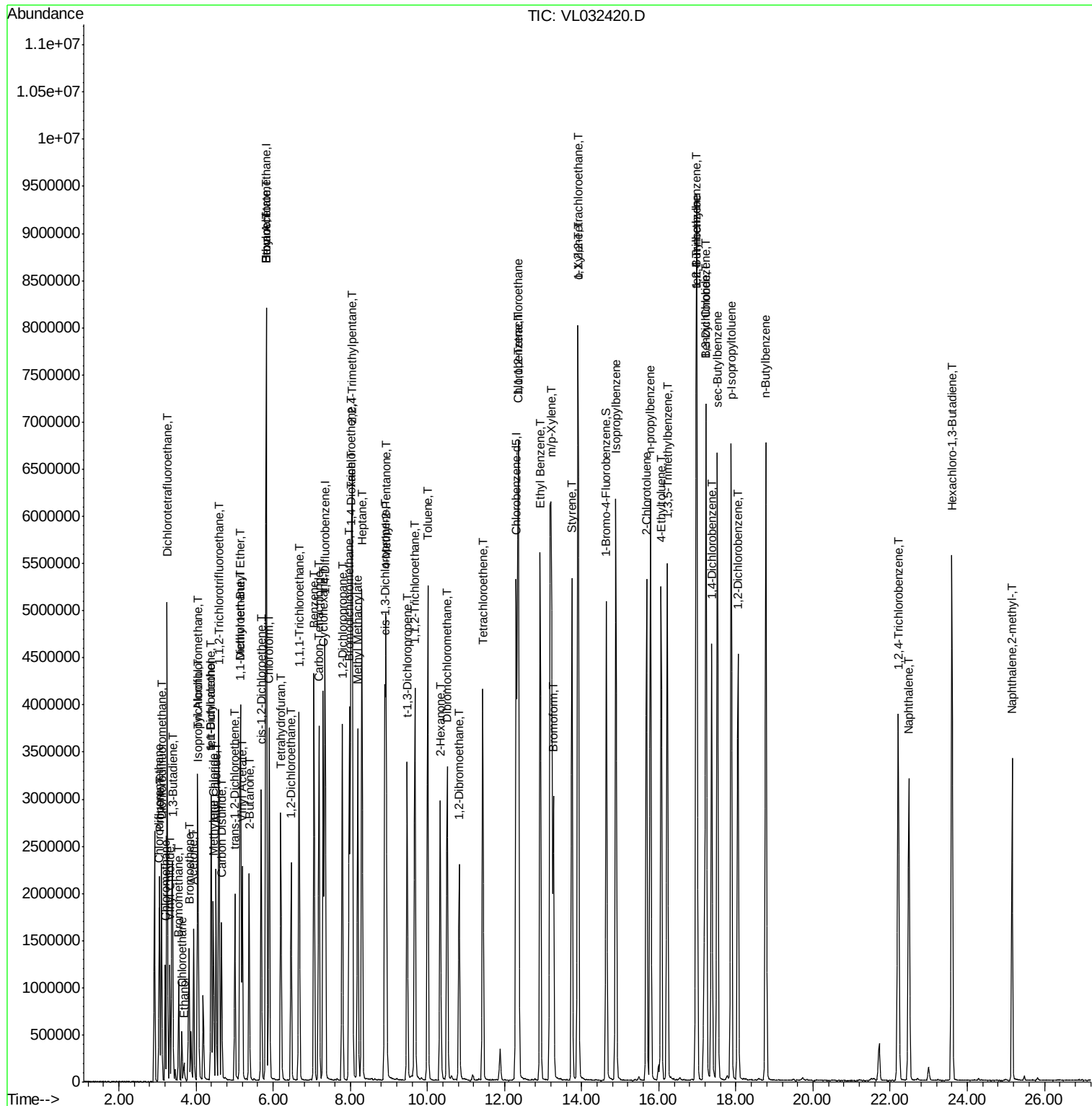
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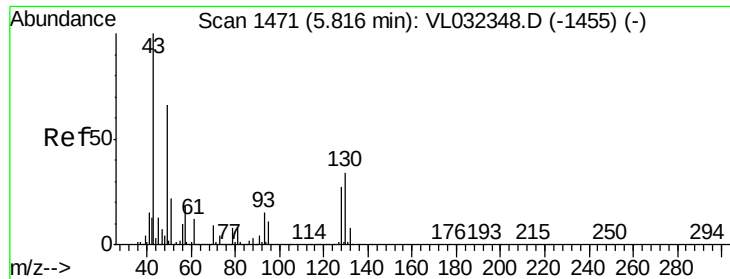
Instrument :
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ClientSampleId :
VSTDCCC010EC

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QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.81 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1779804

Ion Ratio Lower Upper

49 100

128 40.9 20.5 61.6

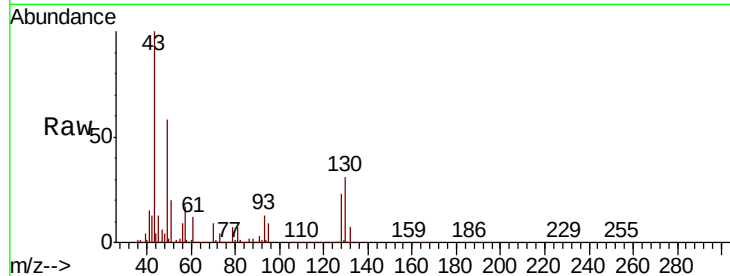
130 51.4 26.2 78.5

Manual Integrations

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8/28/2018 2:53:52 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

5.81

1200000

1000000

800000

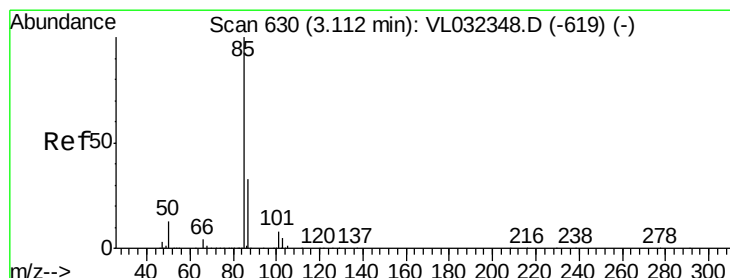
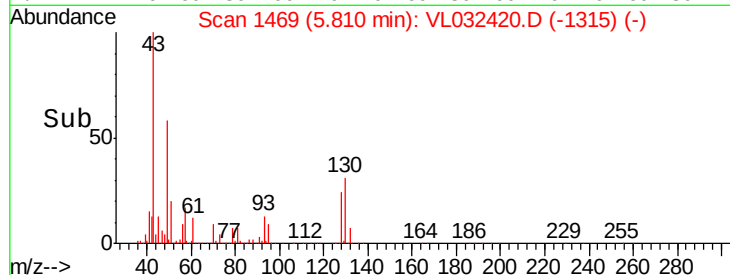
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 11.91 ppbv

RT: 3.11 min Scan# 628

Delta R.T. -0.01 min

Lab File: VL032420.D

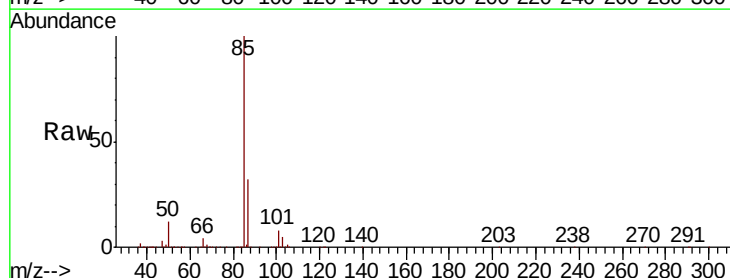
Acq: 21 Aug 2018 12:30

Tgt Ion: 85 Resp: 1690152

Ion Ratio Lower Upper

85 100

87 32.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

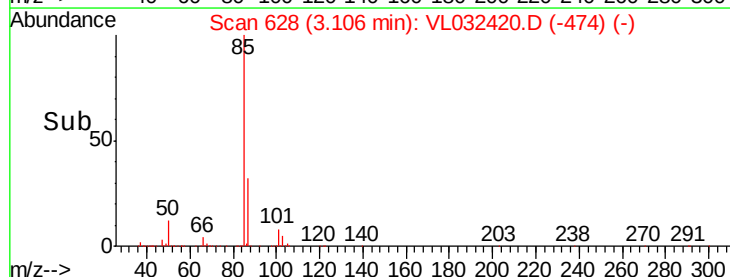
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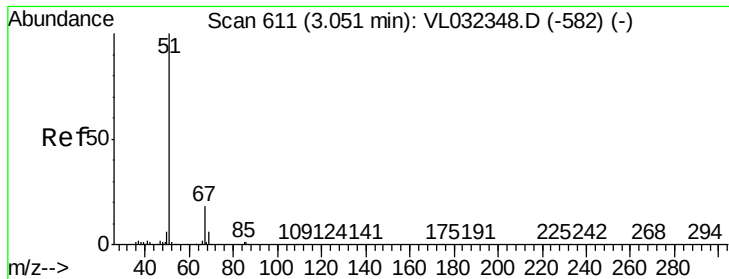
1000000

500000

0

Time-->





#3

Chlorodifluoromethane

Concen: 10.25 ppbv

RT: 3.04 min Scan# 609

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1689475

Ion Ratio Lower Upper

51 100

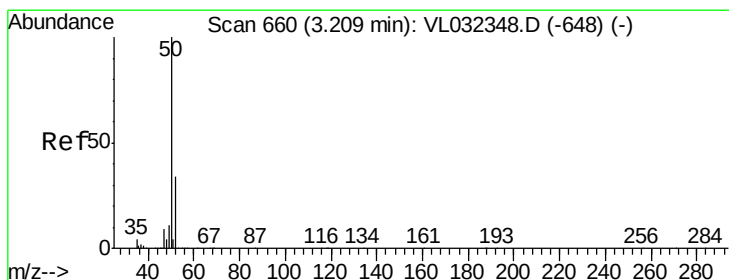
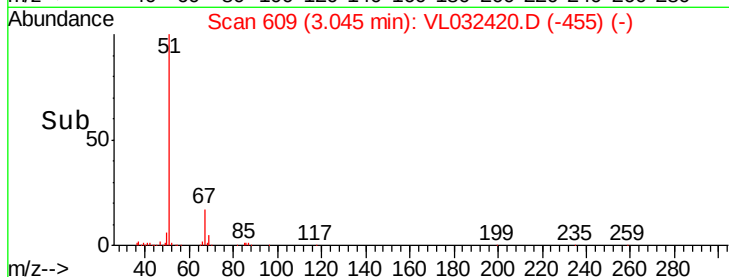
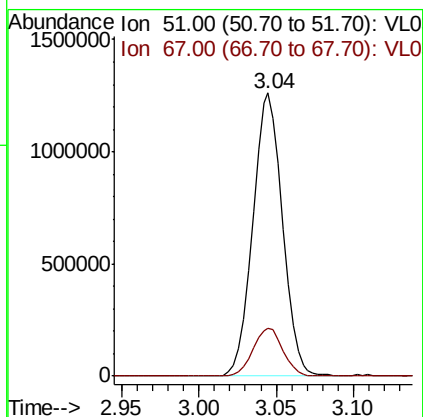
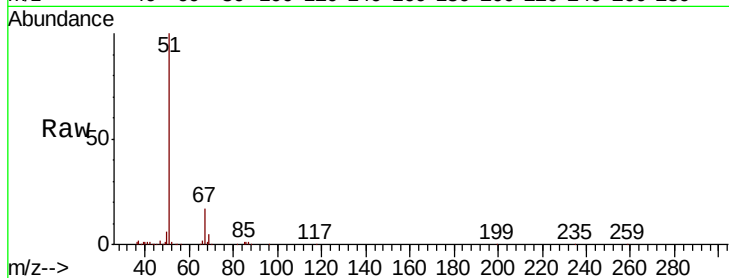
67 17.1 13.7 20.5

Manual Integrations

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#4

Chloromethane

Concen: 10.76 ppbv

RT: 3.20 min Scan# 658

Delta R.T. -0.01 min

Lab File: VL032420.D

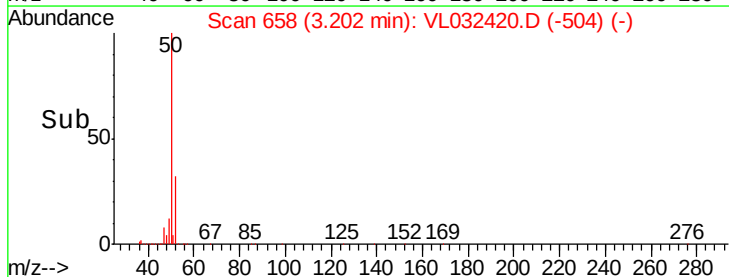
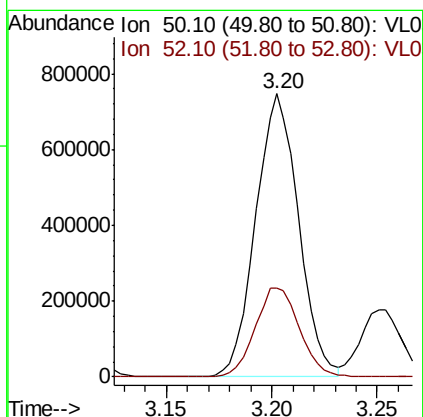
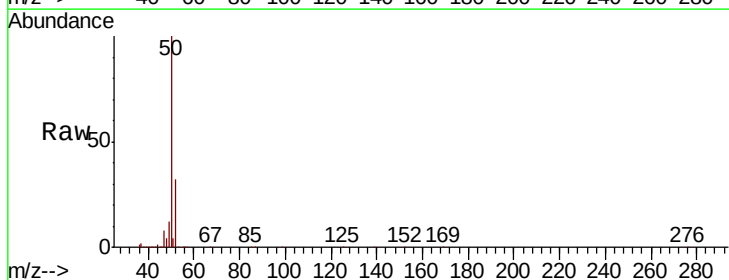
Acq: 21 Aug 2018 12:30

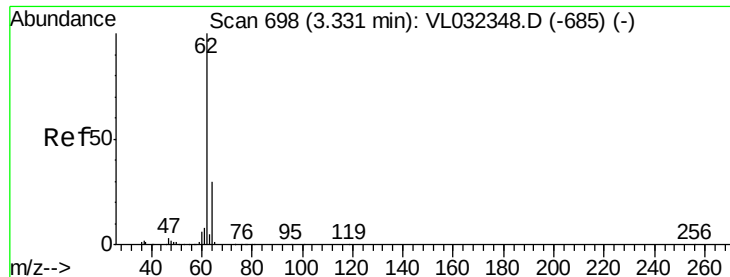
Tgt Ion: 50 Resp: 1056213

Ion Ratio Lower Upper

50 100

52 31.5 26.8 40.2





#5

Vinyl Chloride

Concen: 10.77 ppbv

RT: 3.32 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1007192

Ion Ratio Lower Upper

62 100

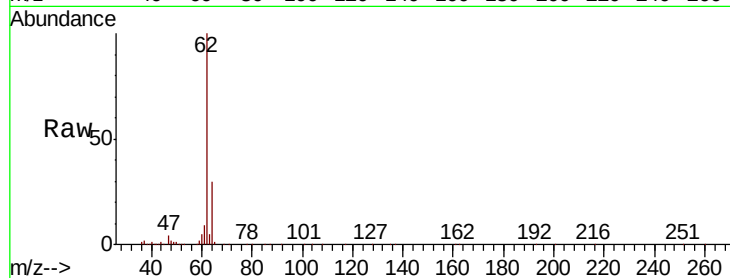
64 29.9 24.2 36.2

Manual Integrations

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8/28/2018 2:53:52 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

800000

600000

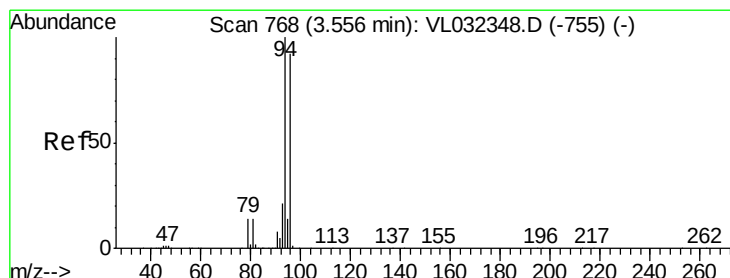
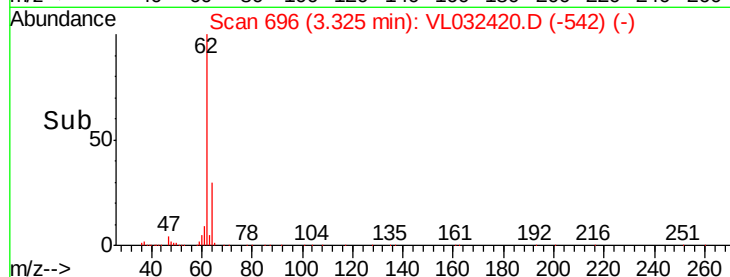
400000

200000

0

3.25 3.30 3.35 3.40

Time-->



#6

Bromomethane

Concen: 11.17 ppbv

RT: 3.55 min Scan# 766

Delta R.T. -0.01 min

Lab File: VL032420.D

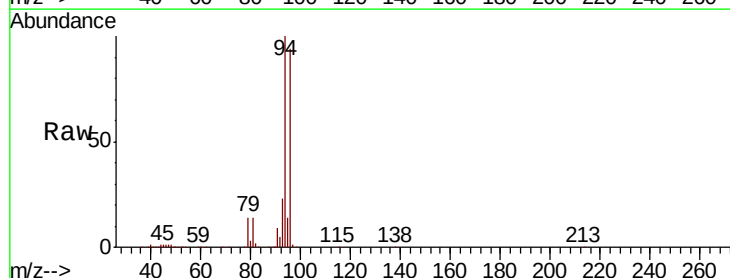
Acq: 21 Aug 2018 12:30

Tgt Ion: 94 Resp: 560058

Ion Ratio Lower Upper

94 100

96 93.7 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

400000

300000

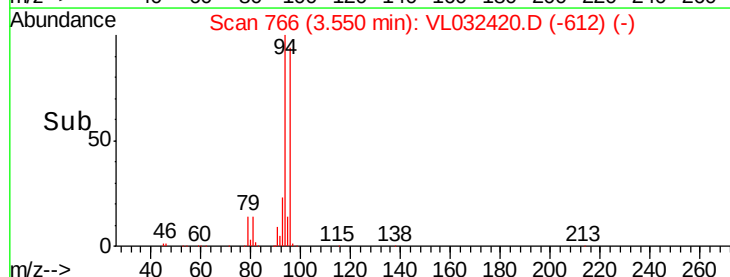
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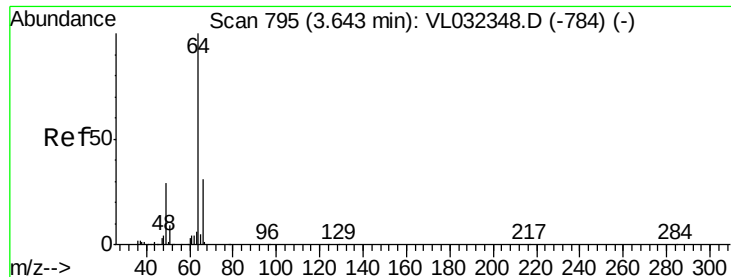
100000

0

3.50 3.55 3.60

Time-->





#7

Chloroethane

Concen: 11.00 ppbv

RT: 3.64 min Scan# 793

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 360789

Ion Ratio Lower Upper

64 100

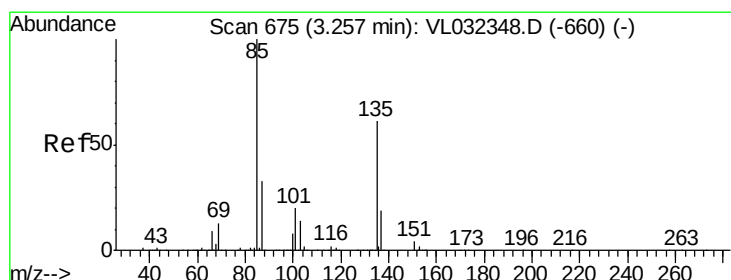
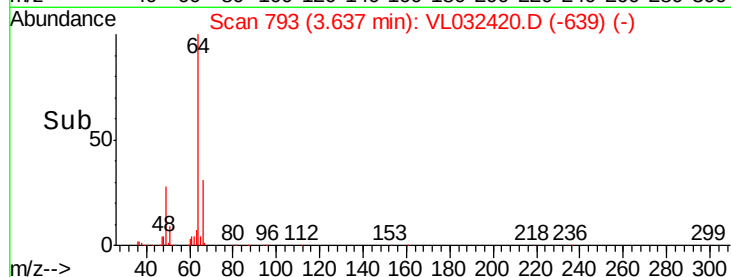
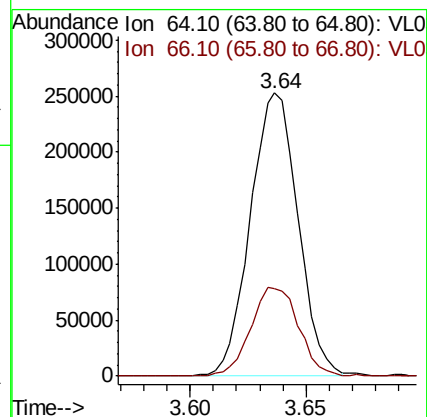
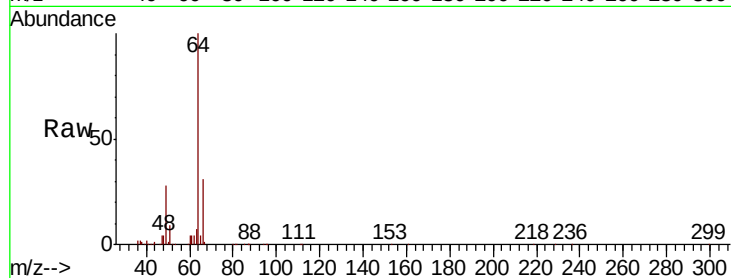
66 30.9 24.6 36.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.39 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.01 min

Lab File: VL032420.D

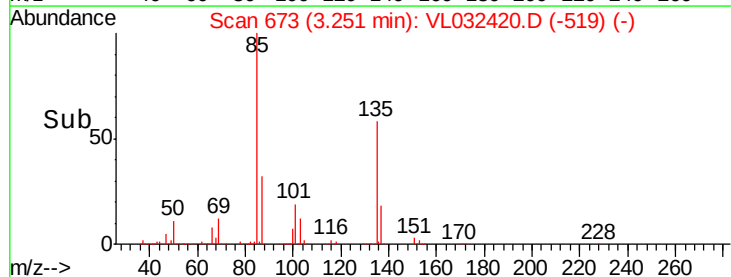
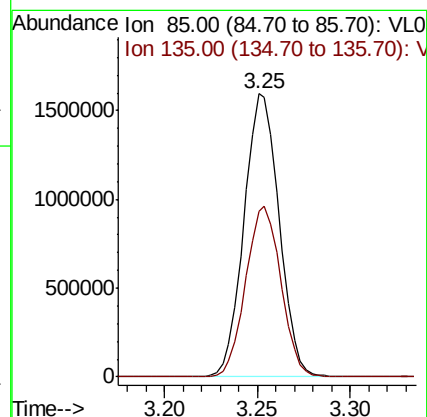
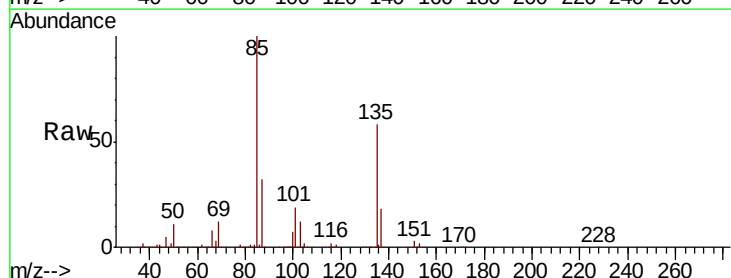
Acq: 21 Aug 2018 12:30

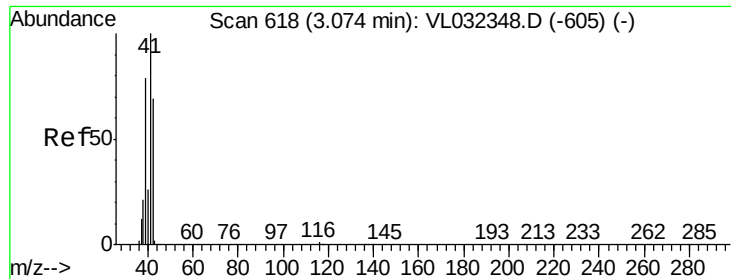
Tgt Ion: 85 Resp: 2089882

Ion Ratio Lower Upper

85 100

135 60.7 49.0 73.6





#9

Propene

Concen: 11.56 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 815426

Ion Ratio Lower Upper

41 100

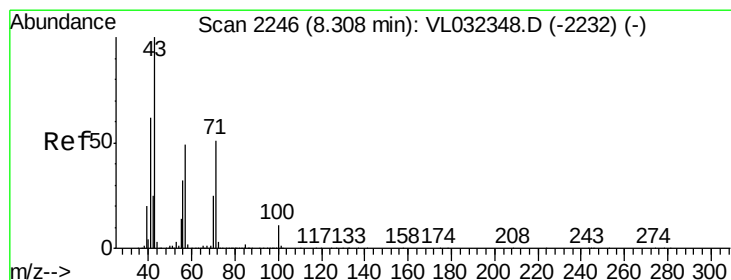
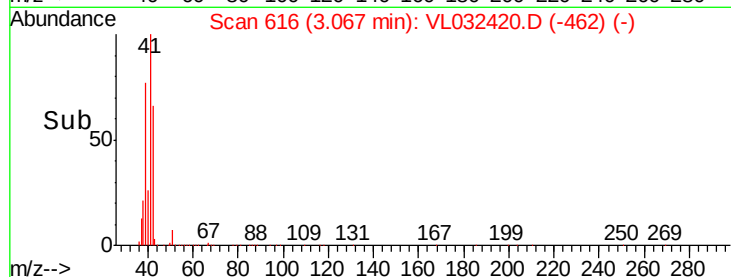
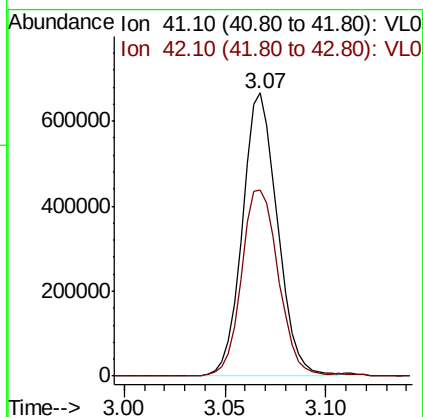
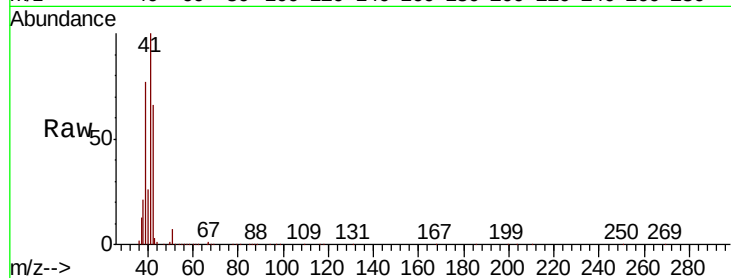
42 69.8 55.9 83.9

Manual Integrations

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8/28/2018 2:53:52 PM



#10

Heptane

Concen: 11.74 ppbv

RT: 8.31 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VL032420.D

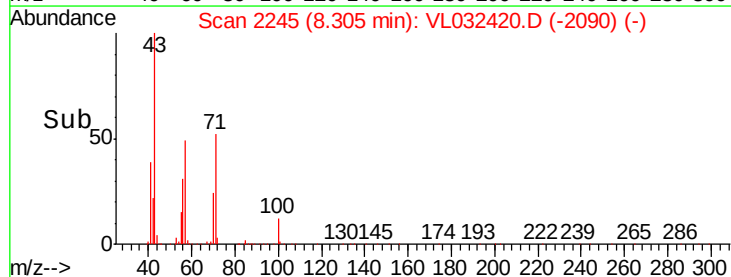
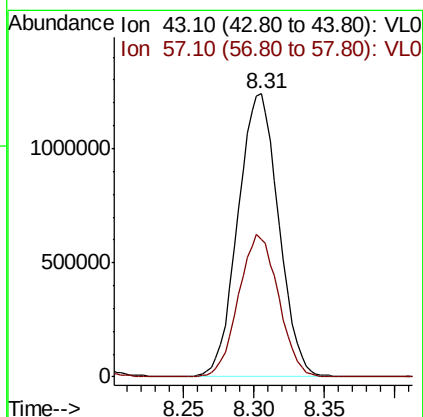
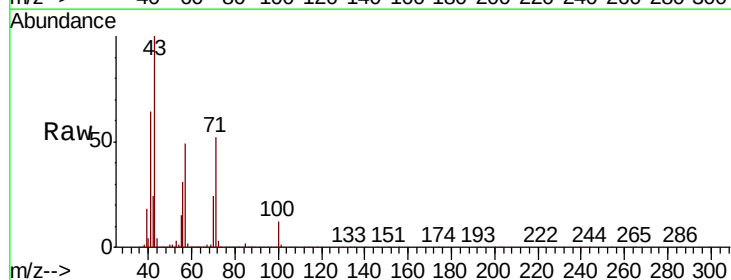
Acq: 21 Aug 2018 12:30

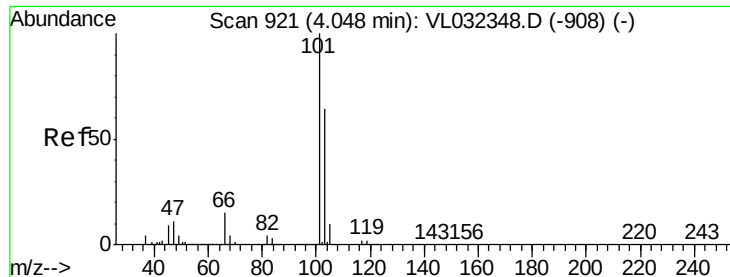
Tgt Ion: 43 Resp: 2494563

Ion Ratio Lower Upper

43 100

57 49.4 39.5 59.3





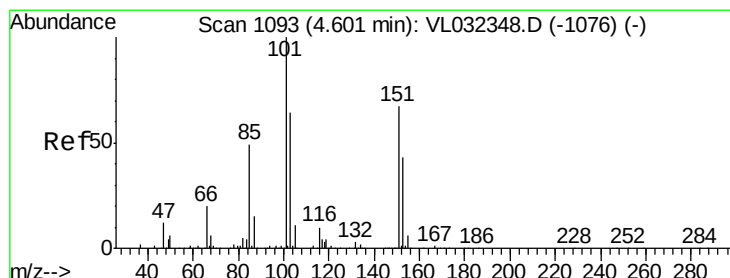
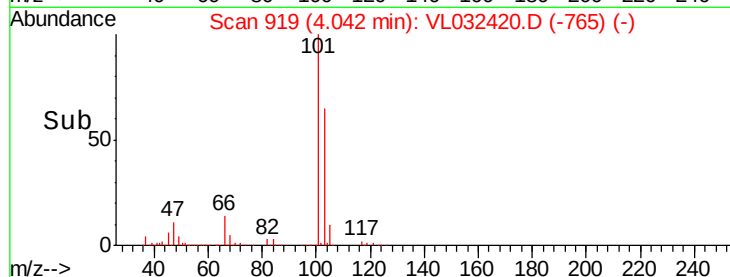
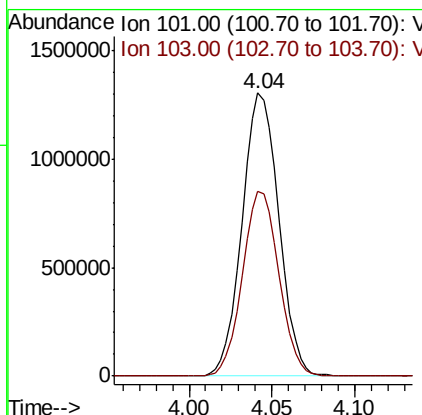
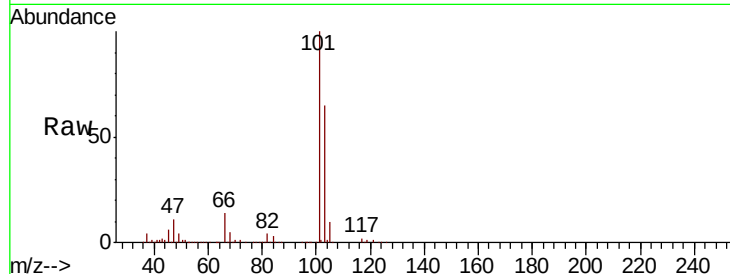
#11
 Trichlorofluoromethane
 Concen: 10.10 ppbv
 RT: 4.04 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2010706
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.4 77.0

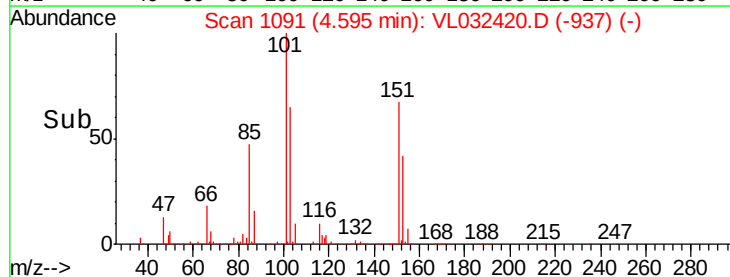
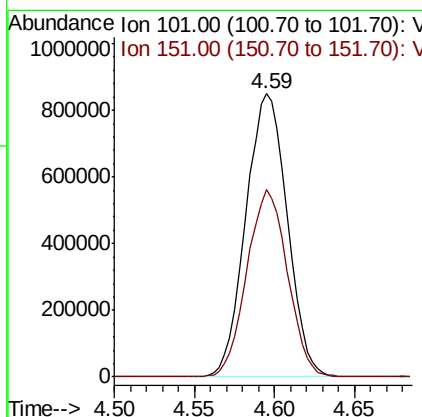
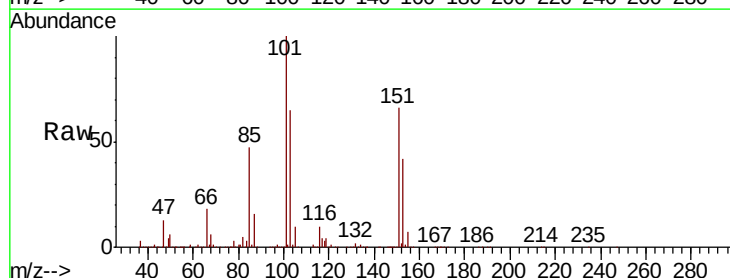
Manual Integrations
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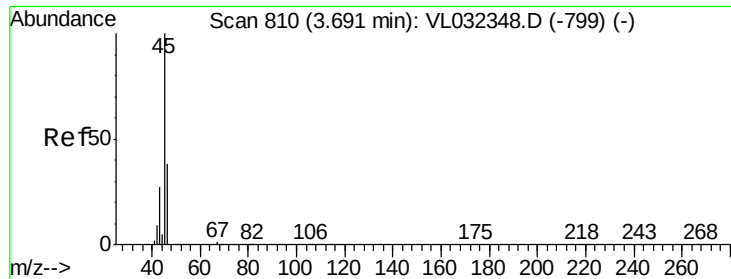
MMDadoda
 8/28/2018 2:53:52 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.24 ppbv
 RT: 4.59 min Scan# 1091
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion:101 Resp: 1506957
 Ion Ratio Lower Upper
 101 100
 151 65.1 53.1 79.7





#13

Ethanol

Concen: 10.31 ppbv

RT: 3.68 min Scan# 808

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 186899

Ion Ratio Lower Upper

45 100

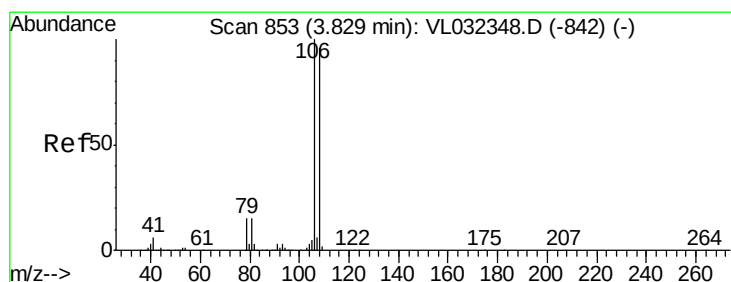
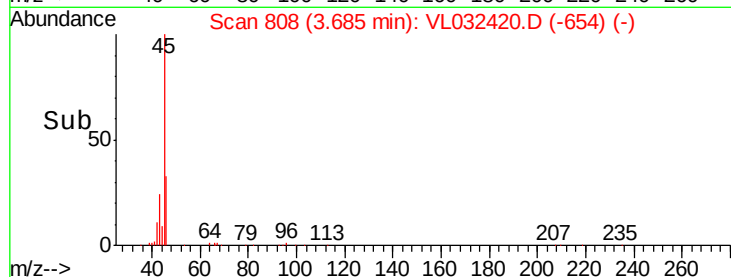
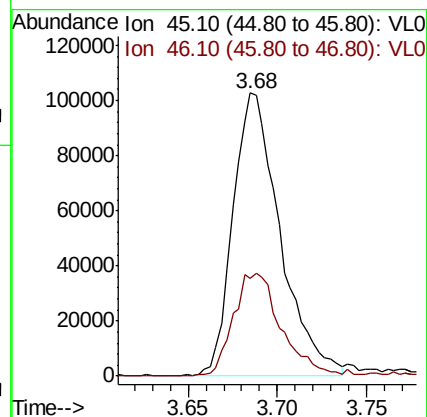
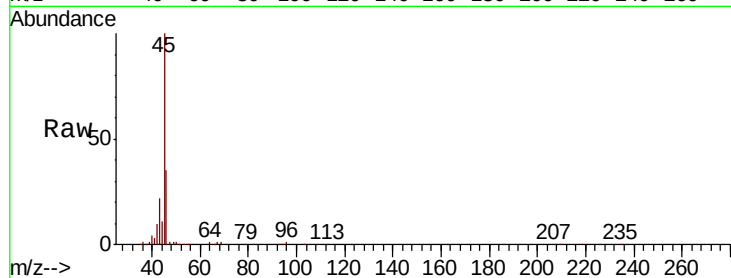
46 37.6 15.6 62.4

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#14

Bromoethene

Concen: 10.84 ppbv

RT: 3.83 min Scan# 852

Delta R.T. -0.00 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

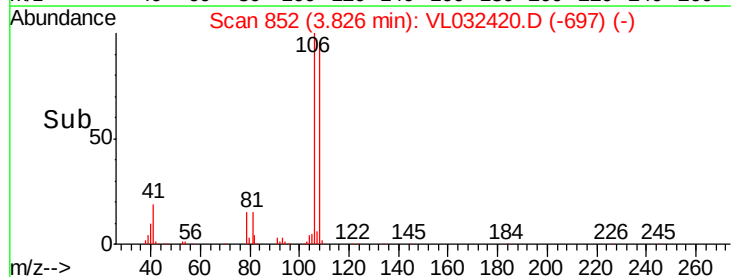
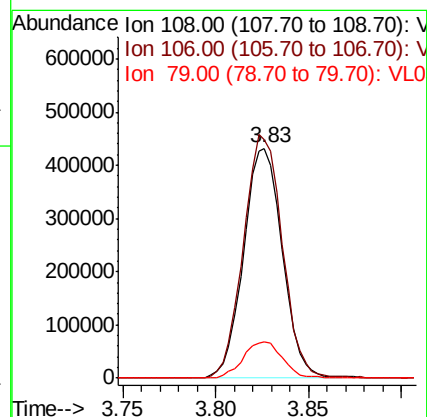
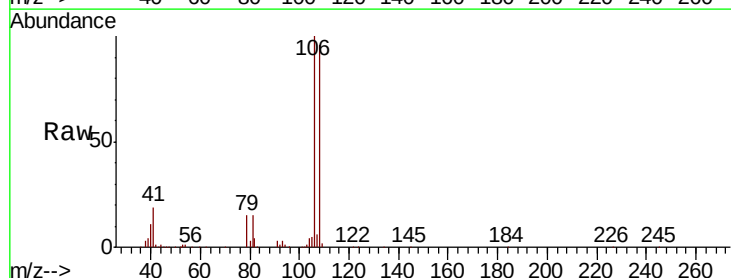
Tgt Ion: 108 Resp: 628594

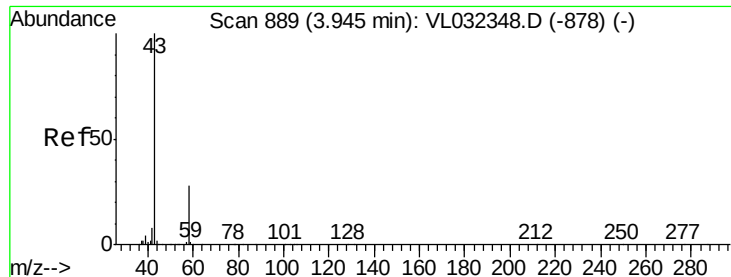
Ion Ratio Lower Upper

108 100

106 106.7 85.7 128.5

79 16.3 13.1 19.7





#15

Acetone

Concen: 9.17 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1551081

Ion Ratio Lower Upper

43 100

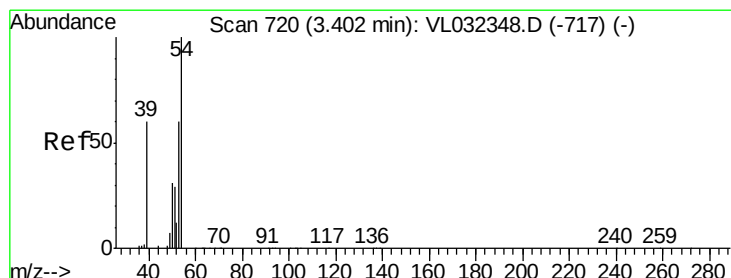
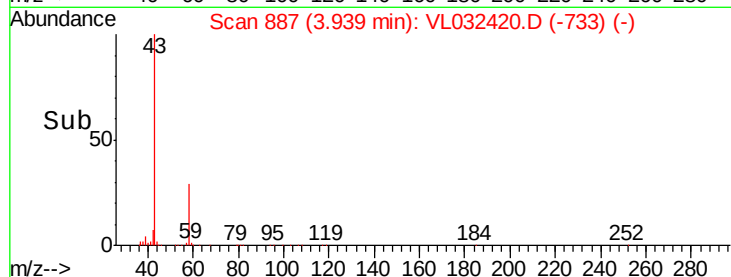
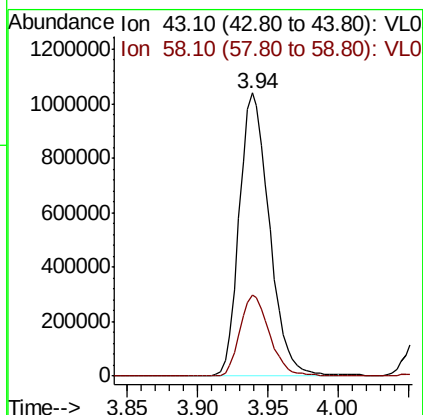
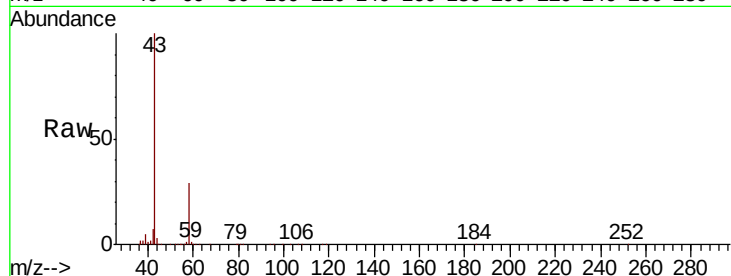
58 28.4 22.4 33.6

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#16

1,3-Butadiene

Concen: 13.12 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.01 min

Lab File: VL032420.D

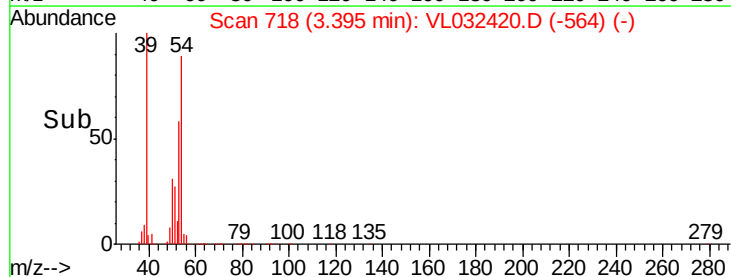
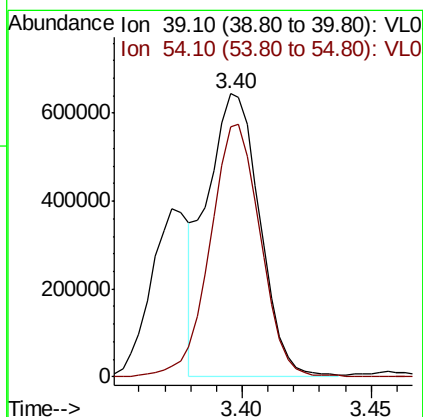
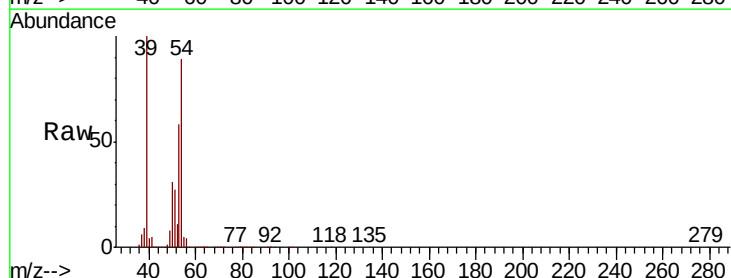
Acq: 21 Aug 2018 12:30

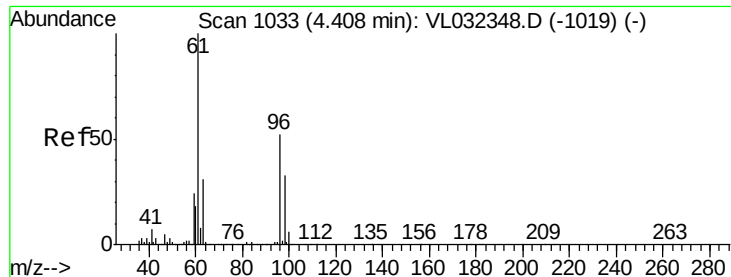
Tgt Ion: 39 Resp: 916011

Ion Ratio Lower Upper

39 100

54 85.5 85.5 128.3#





#17

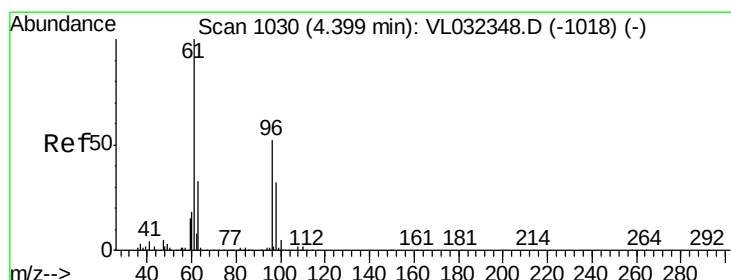
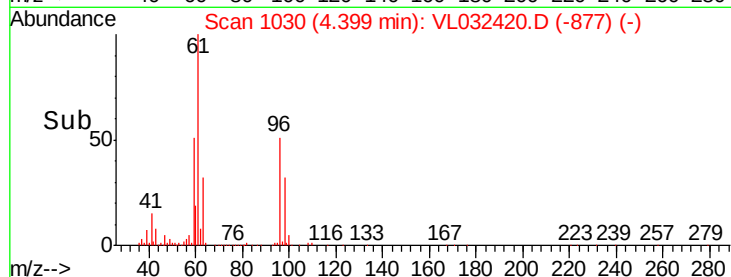
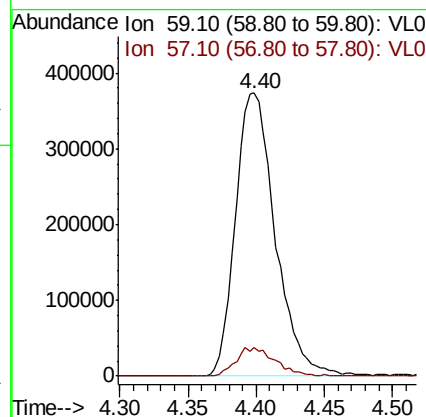
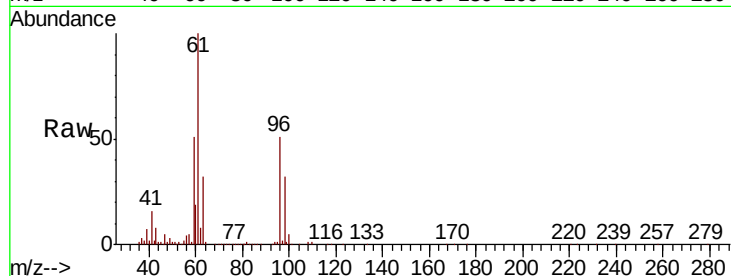
tert-Butyl alcohol
 Concen: 26.65 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.6	11.4

Manual Integrations
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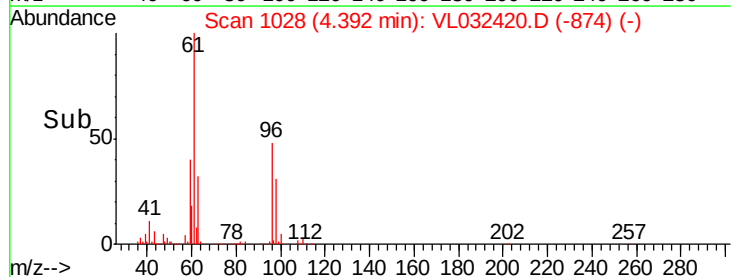
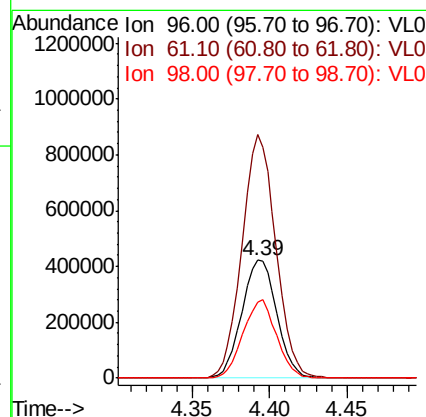
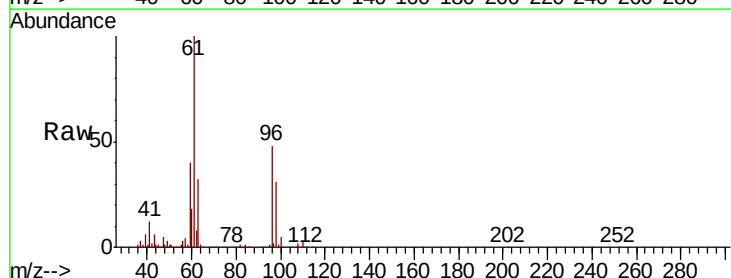
MMDadoda
 8/28/2018 2:53:52 PM

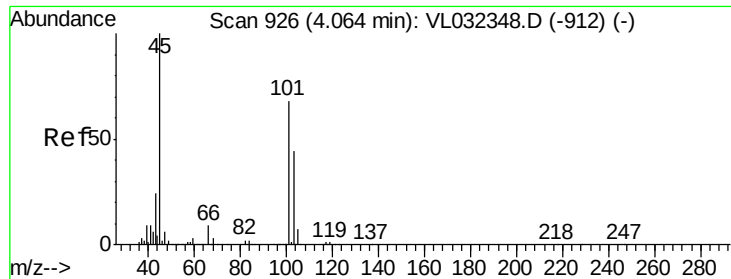


#18

1,1-Dichloroethene
 Concen: 10.63 ppbv
 RT: 4.39 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	206.9	154.6	231.8
98	65.0	50.1	75.1





#19

Isopropyl Alcohol

Concen: 11.06 ppbv

RT: 4.06 min Scan# 925

Delta R.T. -0.00 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Tot Ion: 45 Resp: 1259263

Ion Ratio Lower Upper

45 100

58 1.9 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

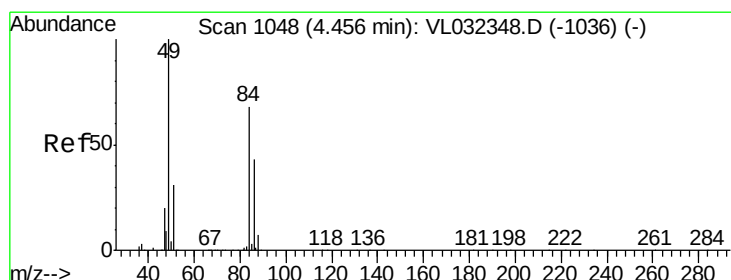
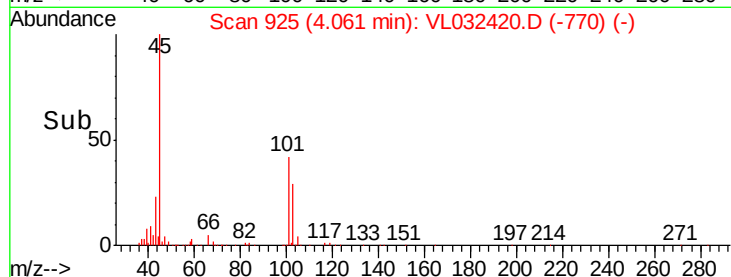
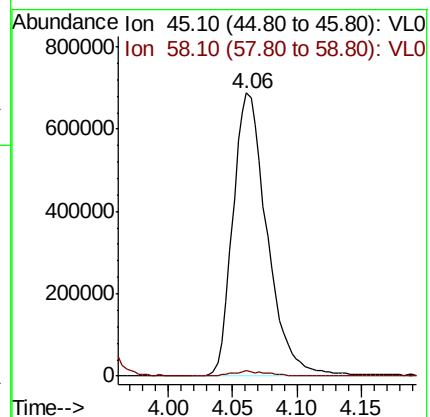
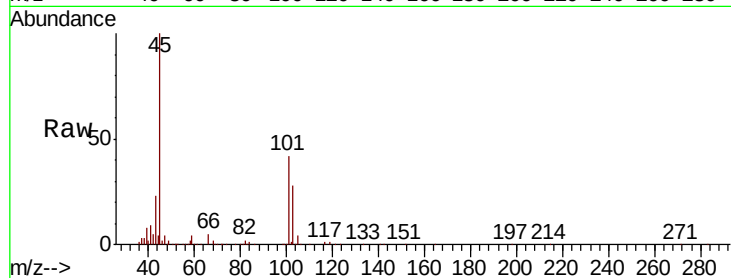
VSTDCCC010EC

Manual Integrations

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#20

Methylene Chloride

Concen: 9.90 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Tgt Ion: 84 Resp: 632103

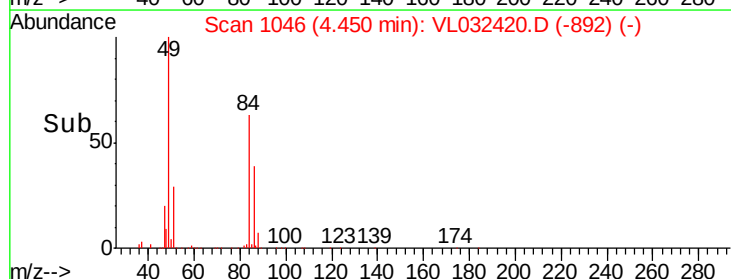
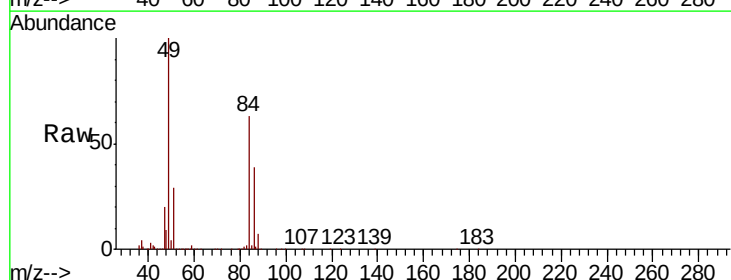
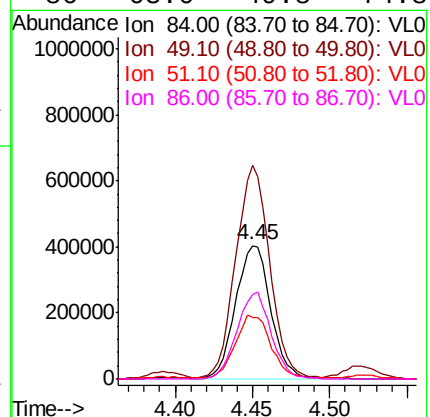
Ion Ratio Lower Upper

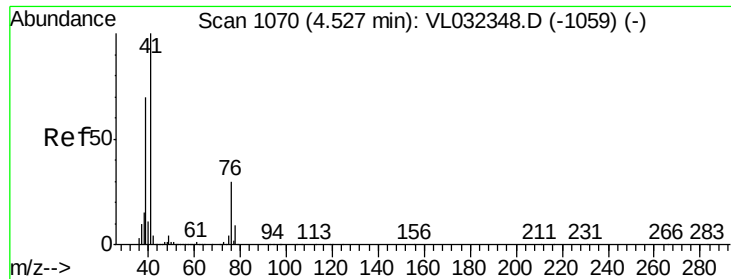
84 100

49 159.1 117.3 175.9

51 45.4 36.6 55.0

86 63.0 49.8 74.8





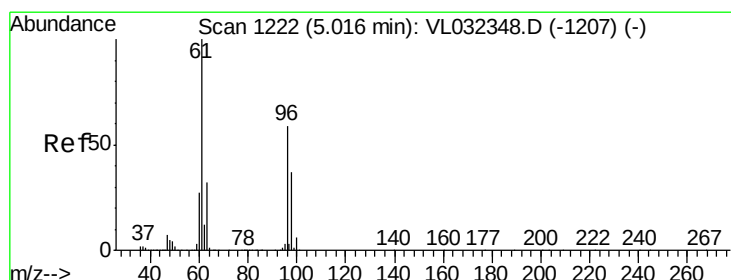
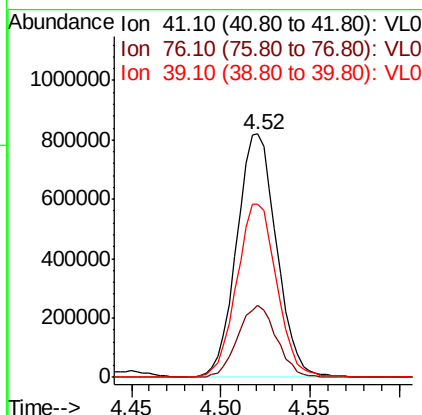
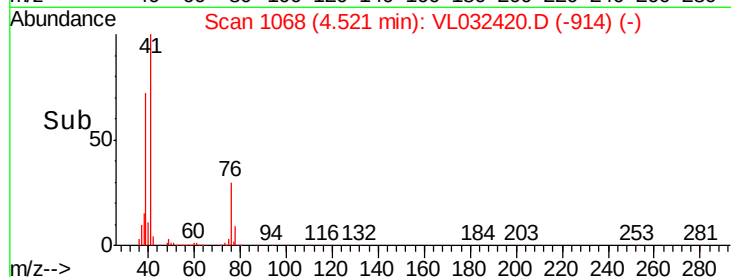
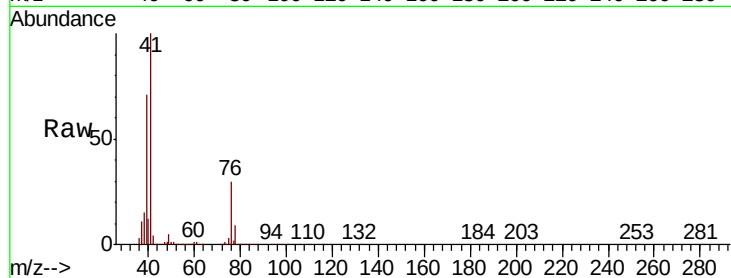
#21
 Allvl Chloride
 Concen: 11.88 ppbv
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.3	22.9	34.3
39	72.4	57.6	86.4

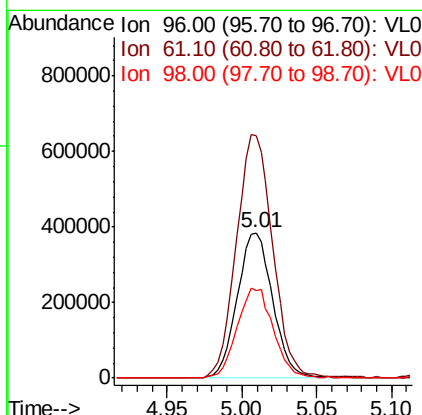
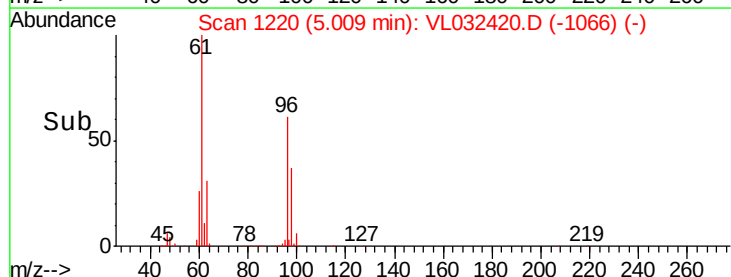
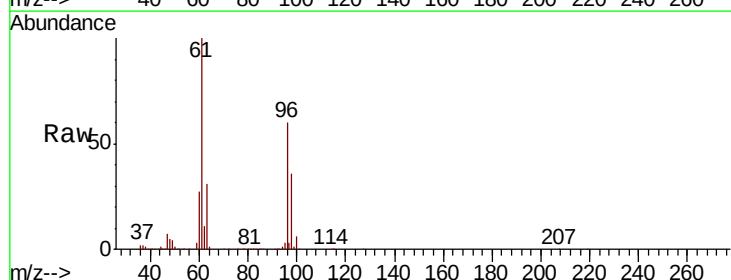
Manual Integrations
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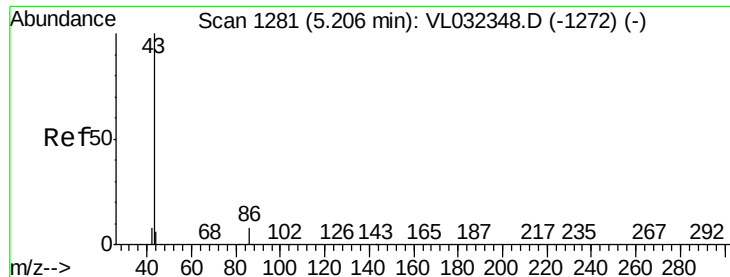
MMDadoda
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#22
 trans-1,2-Dichloroethene
 Concen: 10.10 ppbv
 RT: 5.01 min Scan# 1220
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.8	136.6	205.0
98	60.5	50.6	76.0





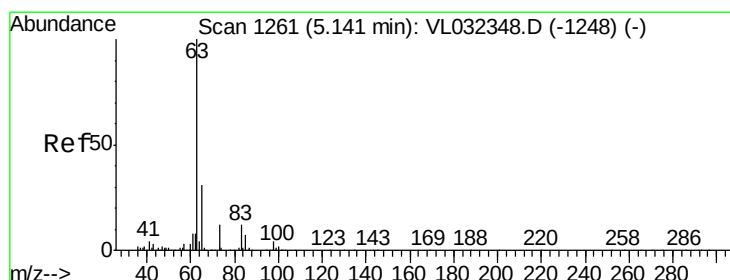
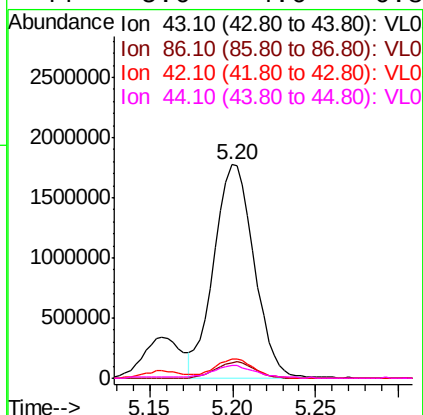
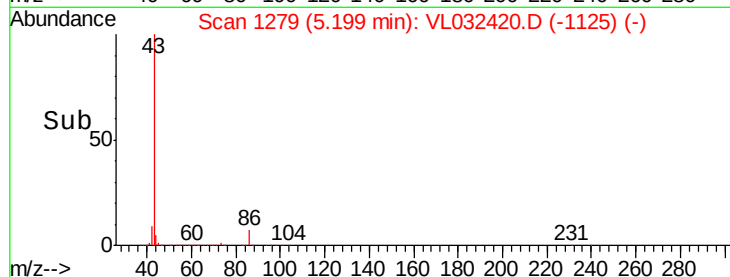
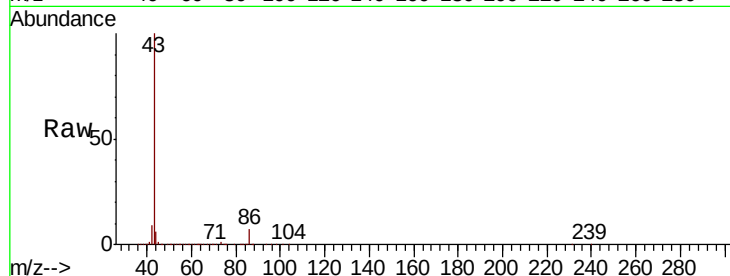
#23
 Vinyl Acetate
 Concen: 10.19 ppbv
 RT: 5.20 min Scan# 1279
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	43	Resp	2975746
Ion	Ratio	Lower	Upper
43	100		
86	7.3	5.5	8.3
42	9.2	7.0	10.6
44	5.6	4.6	6.8

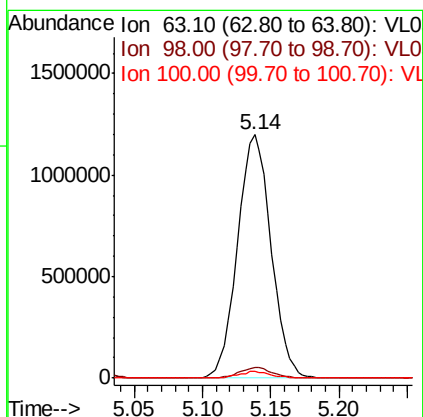
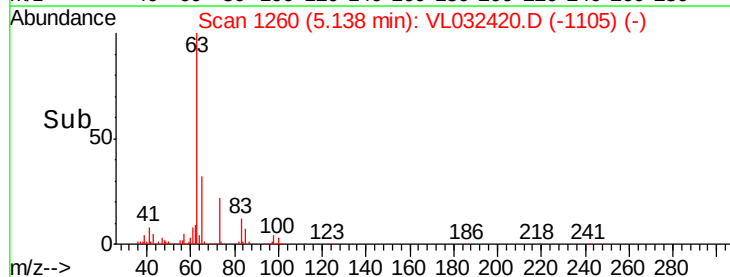
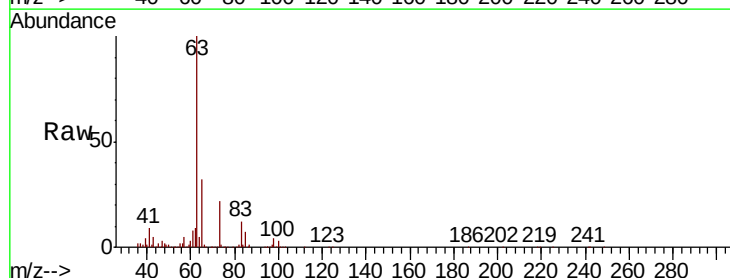
Manual Integrations
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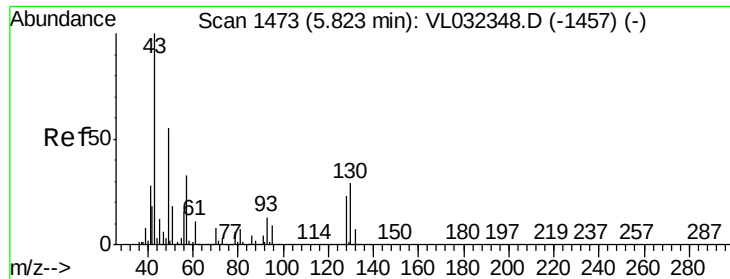
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 9.69 ppbv
 RT: 5.14 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion	63	Resp	2042102
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.3
100	2.8	1.2	3.6





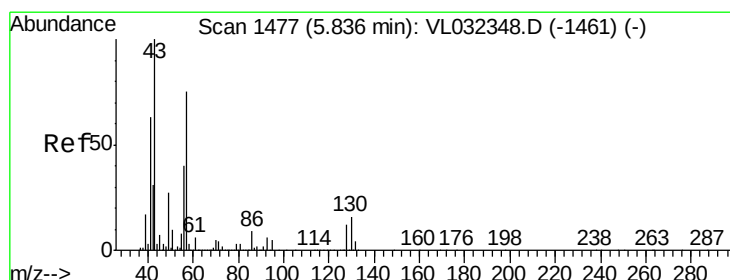
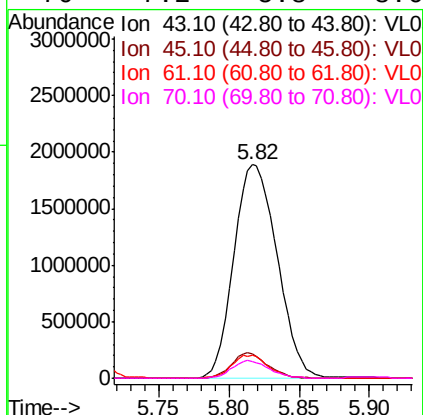
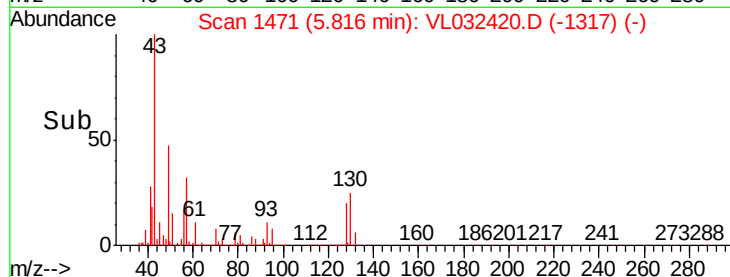
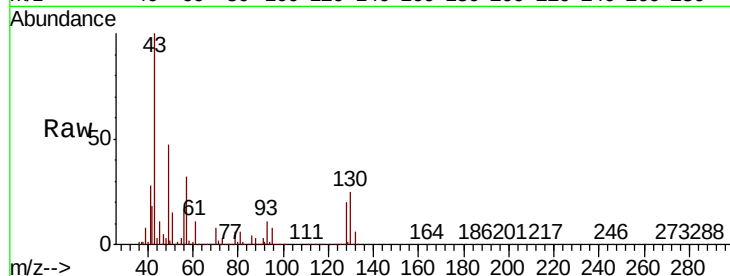
#25
Ethyl Acetate
Concen: 11.20 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.3	7.4	11.2
70	7.2	5.8	8.6

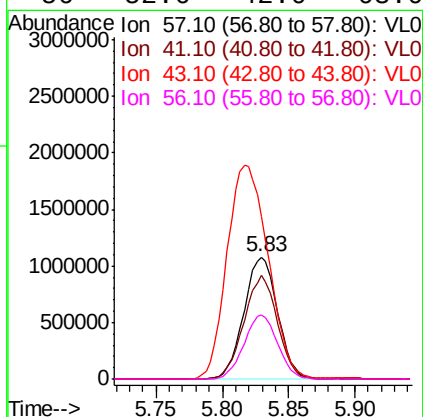
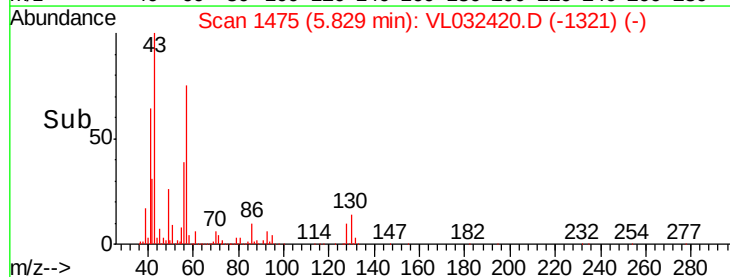
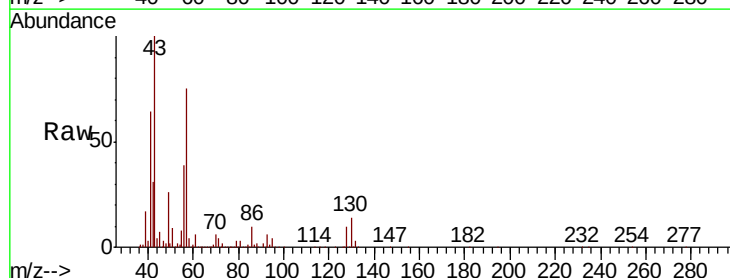
Manual Integrations
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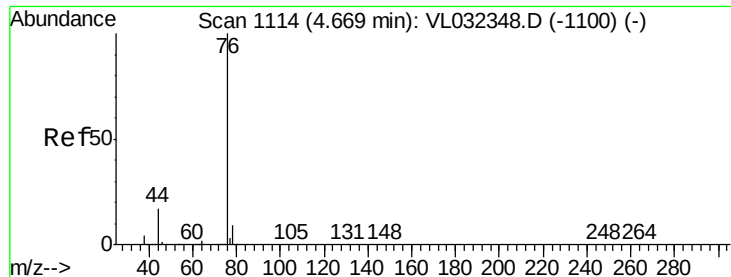
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#26
Hexane
Concen: 11.73 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
57	100		
41	84.7	68.0	102.0
43	215.2	175.3	262.9
56	52.6	42.0	63.0





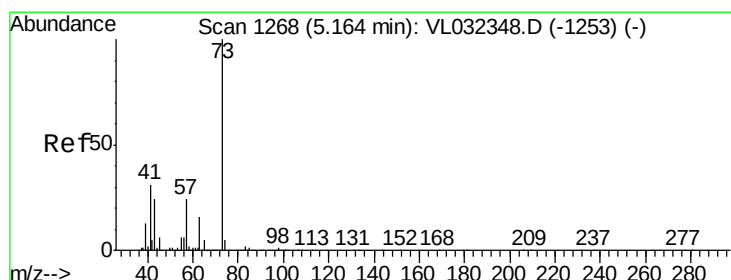
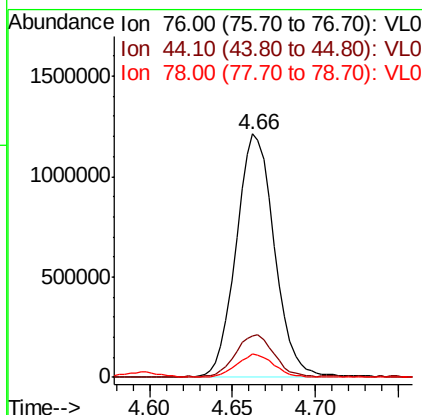
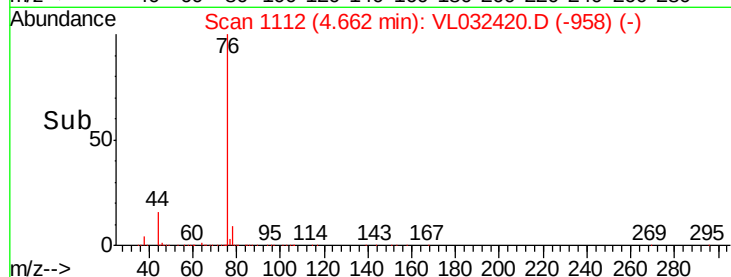
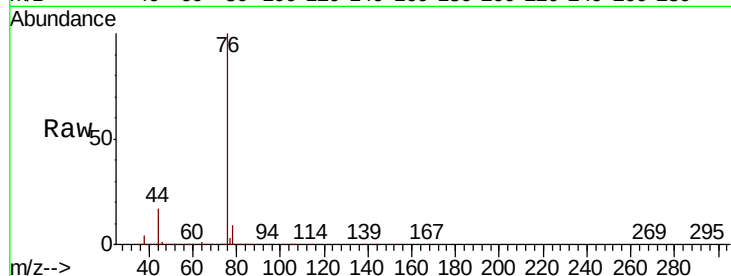
#27
Carbon Disulfide
Concen: 12.83 ppbv
RT: 4.66 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.5	14.4	21.6
78	9.2	7.4	11.0

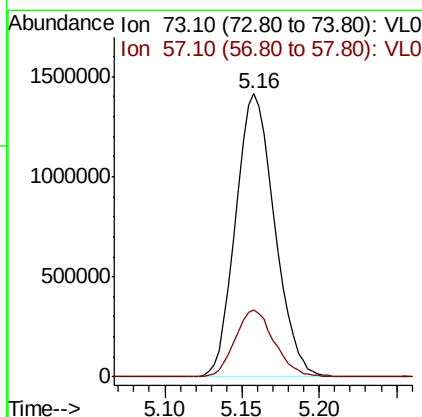
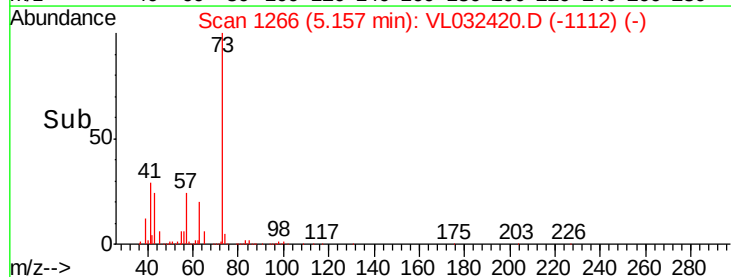
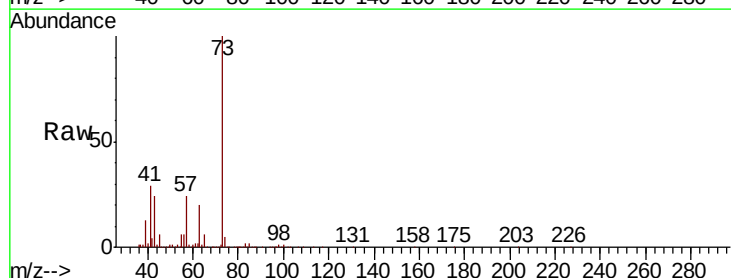
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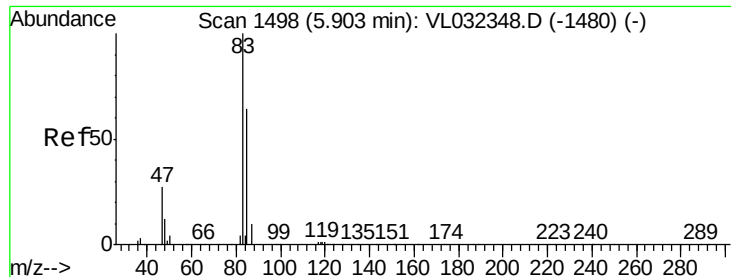
MMDadoda
8/28/2018 2:53:52 PM



#28
Methyl tert-Butyl Ether
Concen: 11.56 ppbv
RT: 5.16 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.9	19.3	28.9





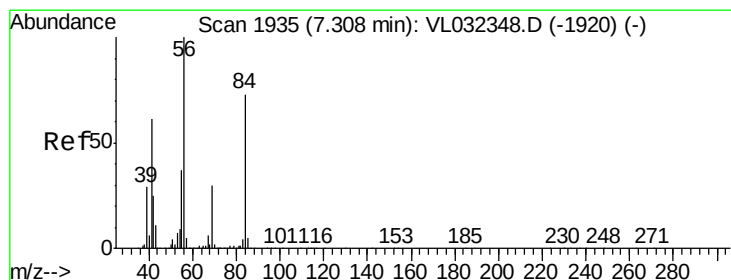
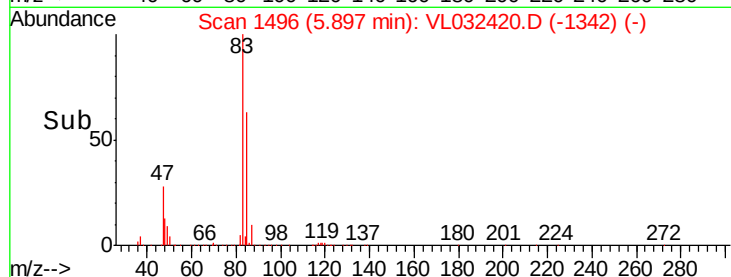
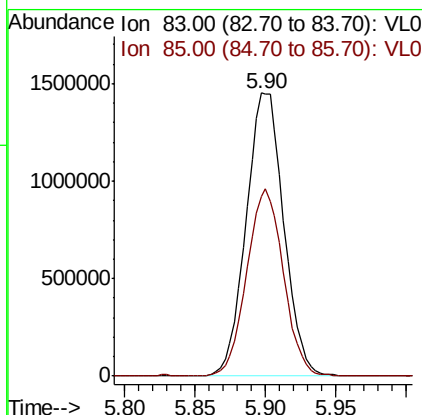
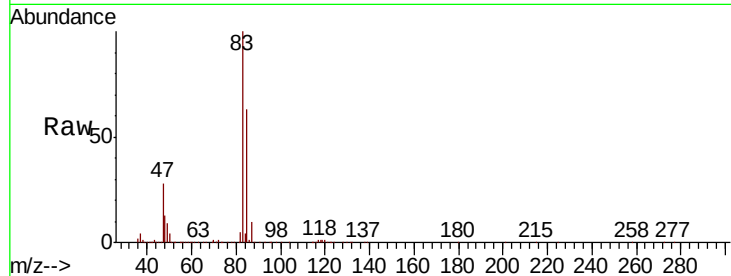
#29
Chloroform
Concen: 11.48 ppbv
RT: 5.90 min Scan# 1496
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2717776
Ion Ratio Lower Upper
83 100
85 63.1 51.6 77.4

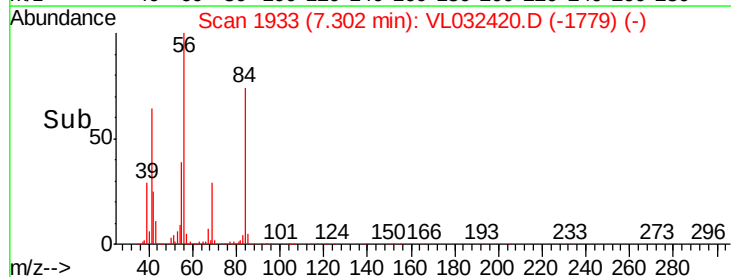
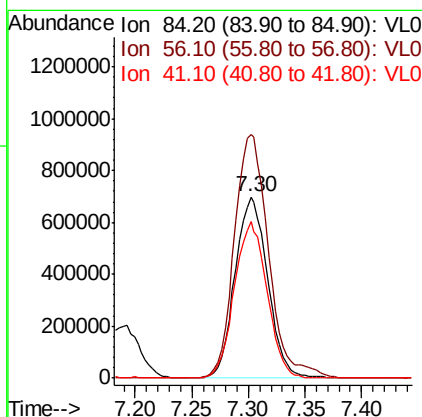
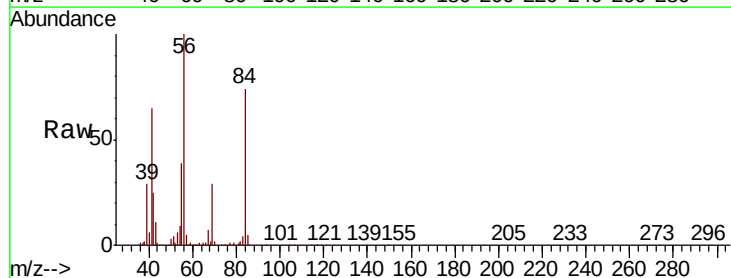
Manual Integrations
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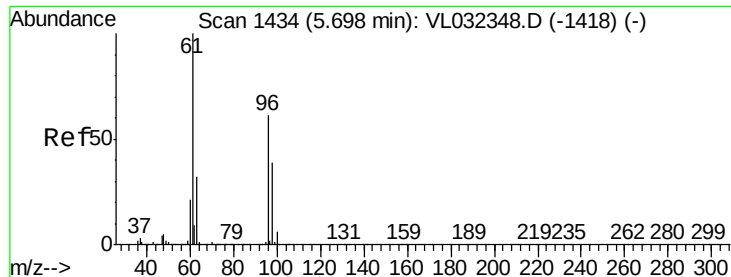
MMDadoda
8/28/2018 2:53:52 PM



#30
Cyclohexane
Concen: 11.39 ppbv
RT: 7.30 min Scan# 1933
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion: 84 Resp: 1401579
Ion Ratio Lower Upper
84 100
56 141.7 115.7 173.5
41 86.3 67.9 101.9





#31

cis-1,2-Dichloroethene

Concen: 11.08 ppbv

RT: 5.69 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

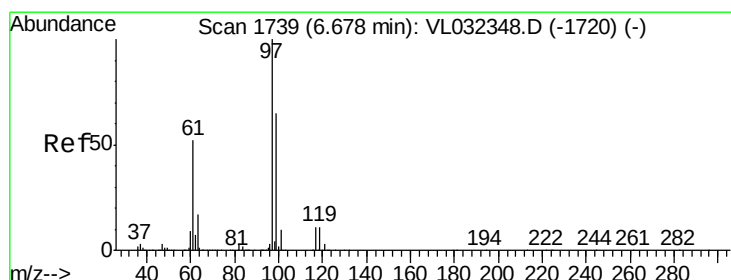
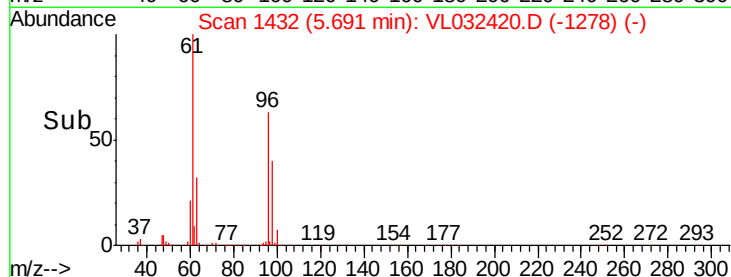
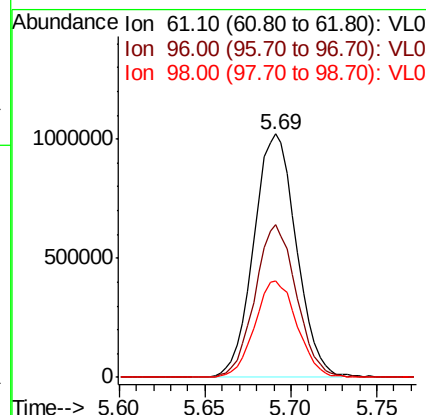
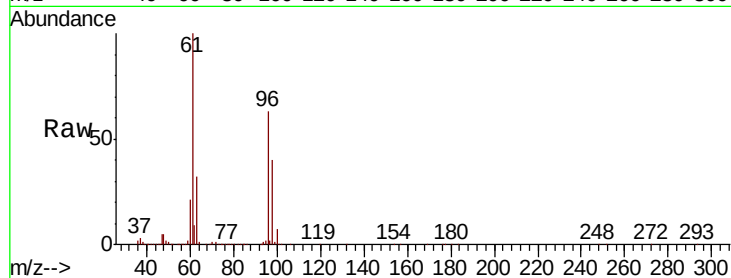
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1751604
Ion	Ratio	Lower	Upper
61	100		
96	62.9	48.5	72.7
98	39.8	31.0	46.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 10.91 ppbv

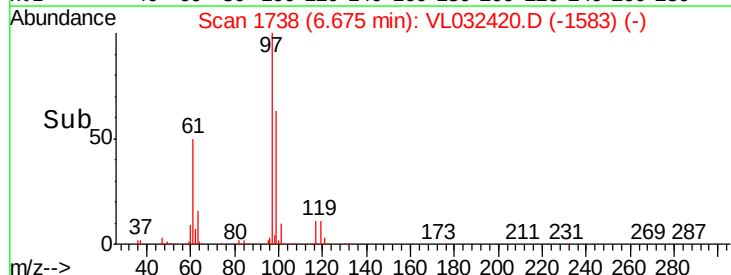
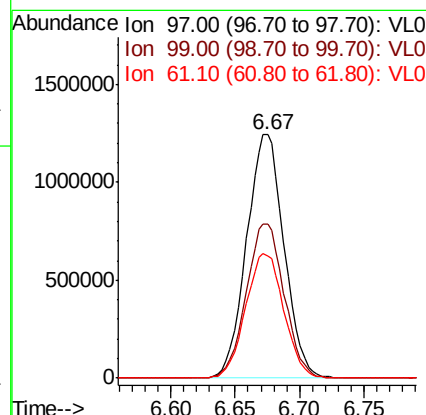
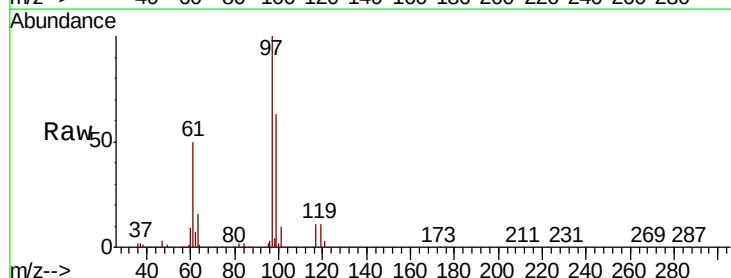
RT: 6.67 min Scan# 1738

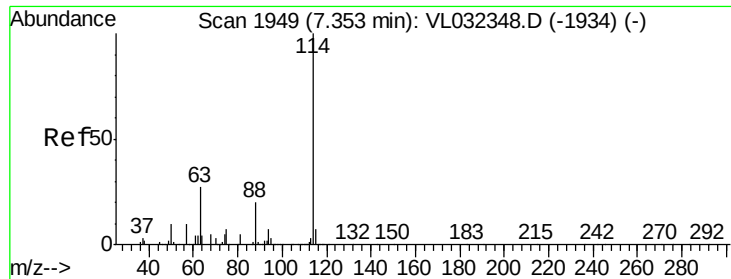
Delta R.T. -0.00 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Tgt Ion:	97	Resp:	2513203
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	52.4	41.1	61.7





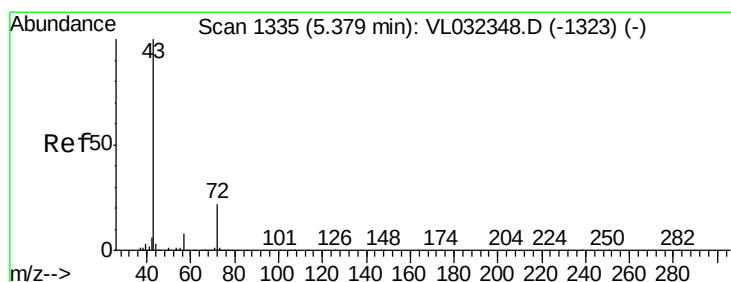
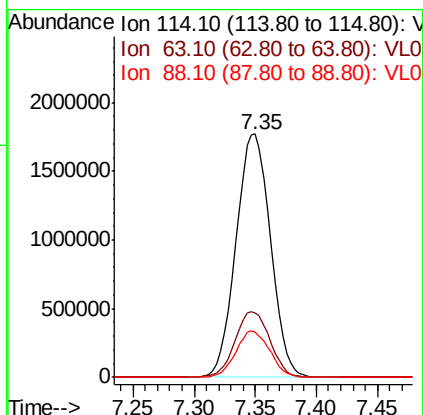
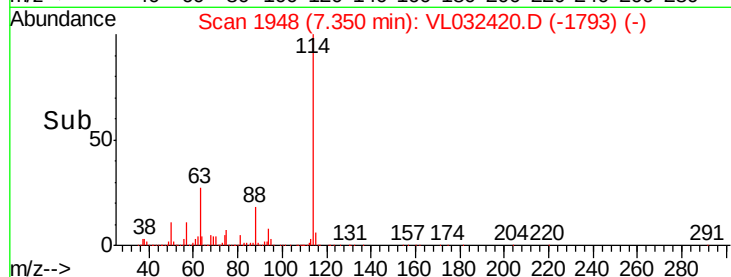
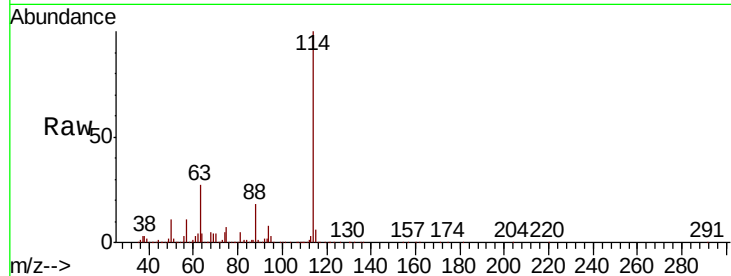
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.0	33.0
88	18.8	15.3	22.9

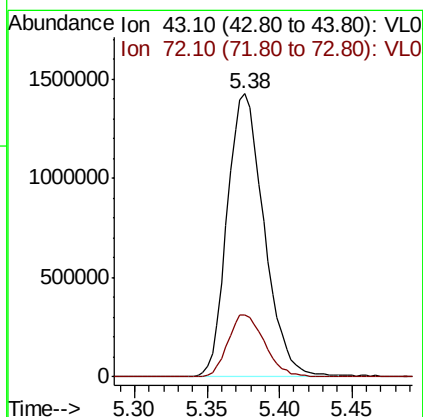
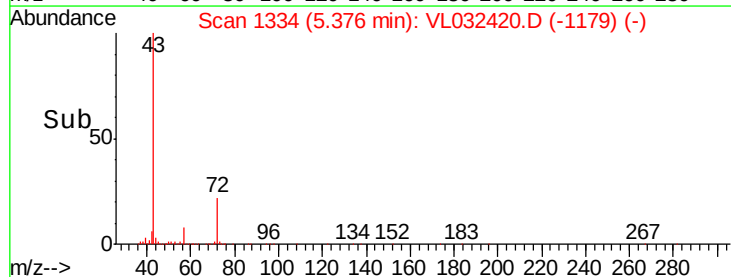
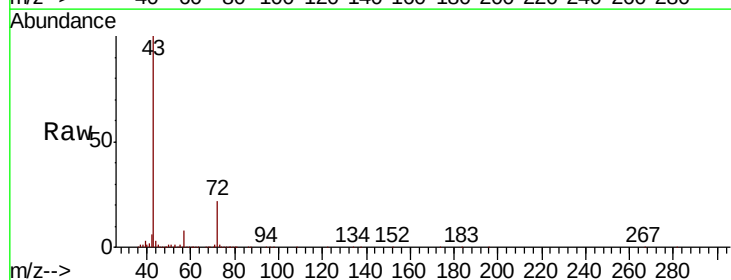
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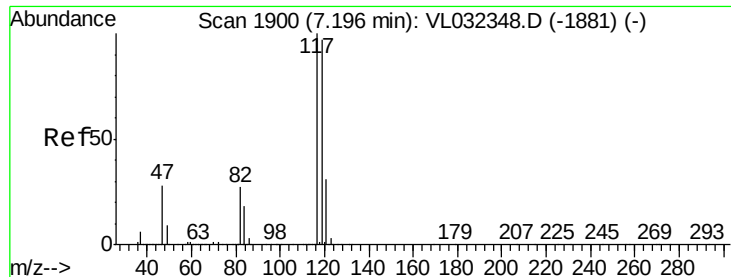
MMDadoda
 8/28/2018 2:53:52 PM



#34
 2-Butanone
 Concen: 10.68 ppbv
 RT: 5.38 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.9	26.9





#35

Carbon Tetrachloride

Concen: 11.66 ppbv

RT: 7.19 min Scan# 1897

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

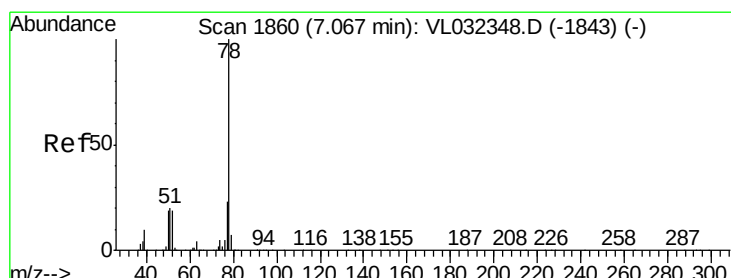
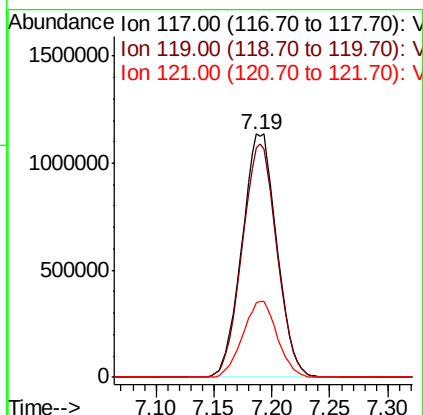
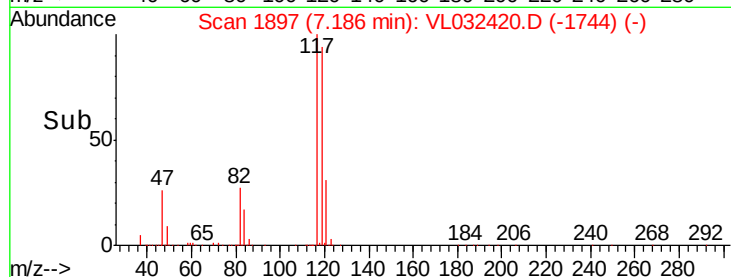
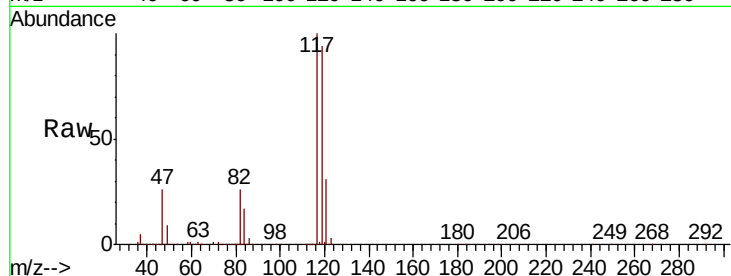
ClientSampleId :

VSTDCCC010EC

Tot Ion:	117	Resp:	2375125
Ion	Ratio	Lower	Upper
117	100		
119	94.1	77.2	115.8
121	30.6	25.1	37.7

Manual Integrations
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#36

Benzene

Concen: 12.45 ppbv

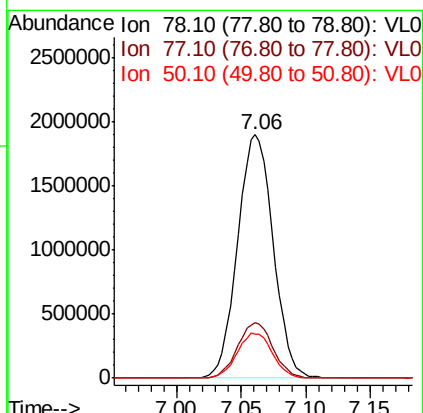
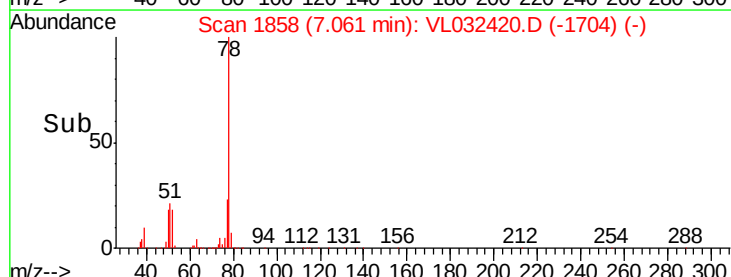
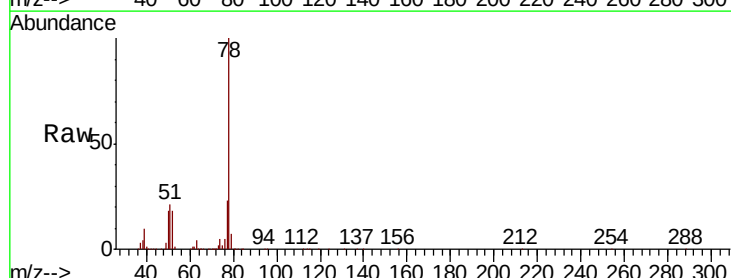
RT: 7.06 min Scan# 1858

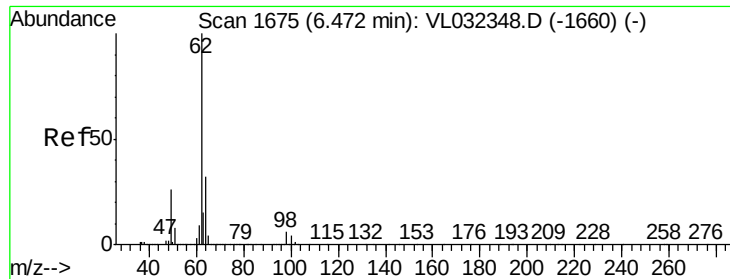
Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Tgt Ion:	78	Resp:	3646062
Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.0	27.0
50	18.3	15.1	22.7





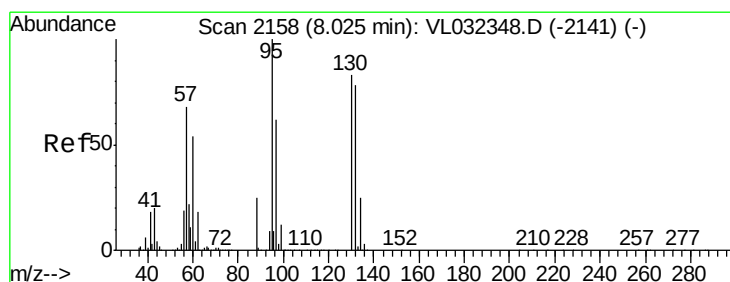
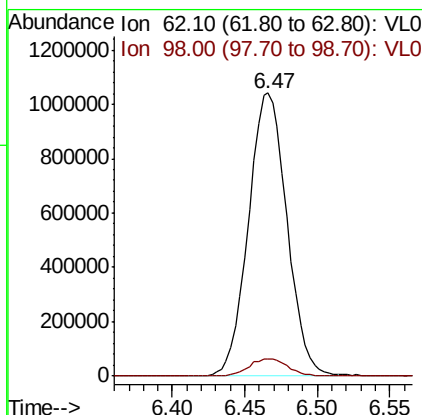
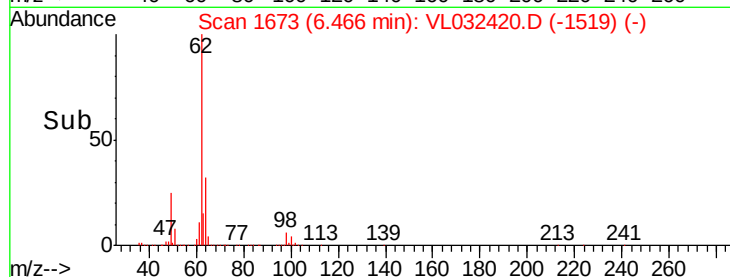
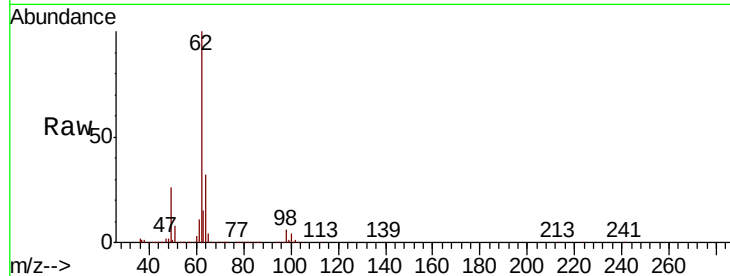
#37
 1,2-Dichloroethane
 Concen: 10.84 ppbv
 RT: 6.47 min Scan# 1673
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1927003
 Ion Ratio Lower Upper
 62 100
 98 6.3 5.0 7.6

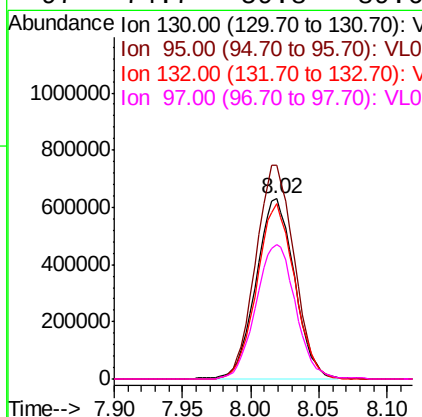
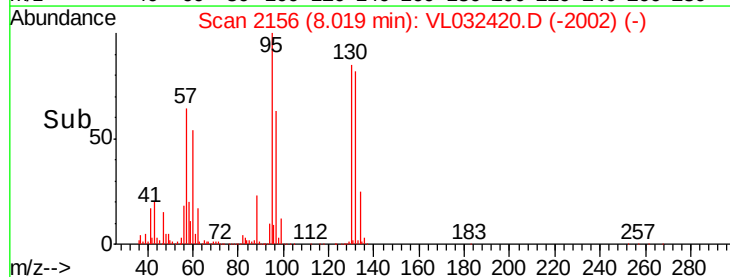
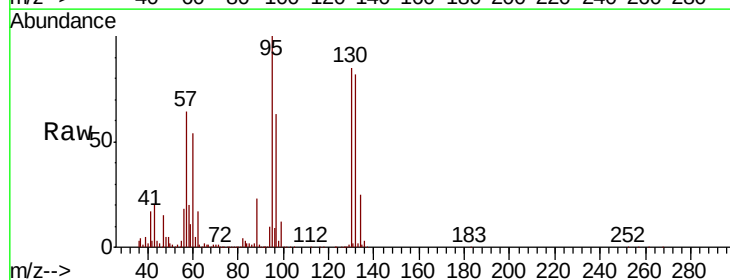
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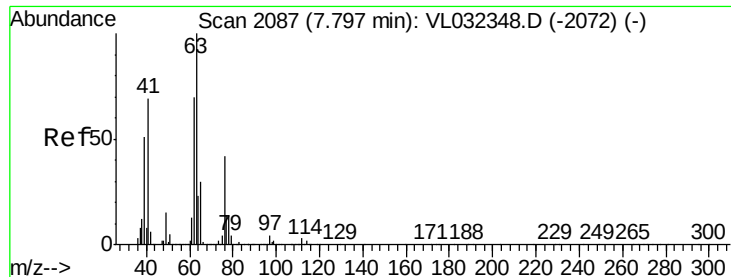
MMDadoda
 8/28/2018 2:53:52 PM



#38
 Trichloroethene
 Concen: 11.92 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion: 130 Resp: 1224280
 Ion Ratio Lower Upper
 130 100
 95 118.5 96.6 144.8
 132 97.1 75.5 113.3
 97 74.7 59.8 89.6





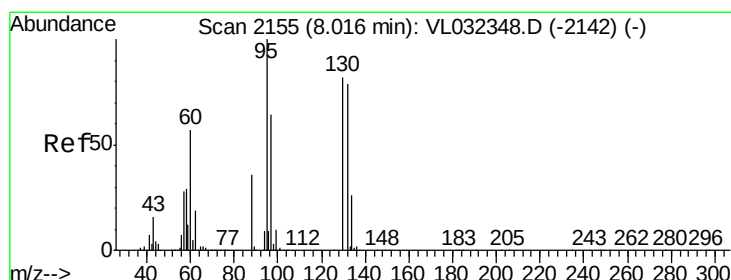
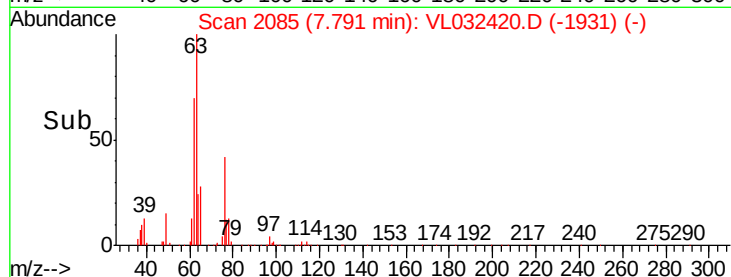
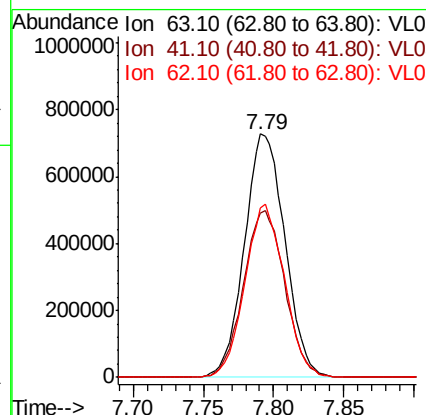
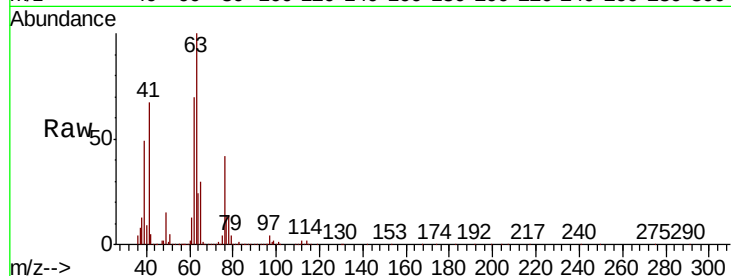
#39
 1,2-Dichloropropane
 Concen: 11.97 ppbv
 RT: 7.79 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	63	Resp:	1464272
Ion	Ratio	Lower	Upper
63	100		
41	67.3	55.5	83.3
62	69.6	56.3	84.5

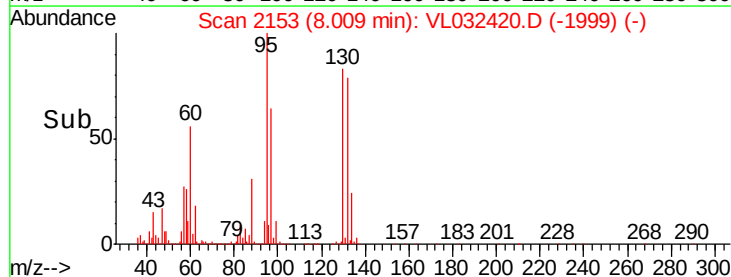
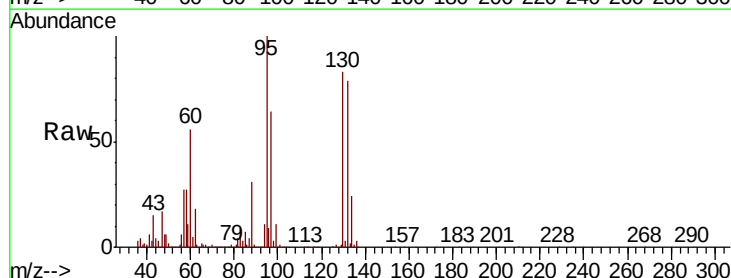
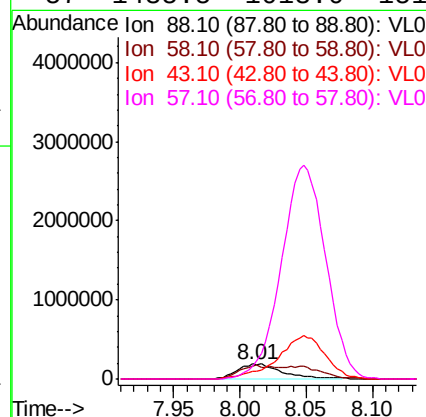
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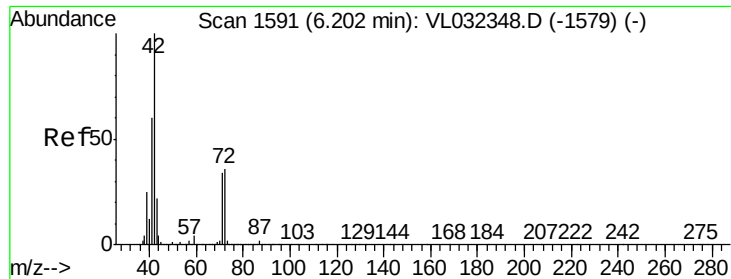
MMDadoda
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#40
 1,4-Dioxane
 Concen: 11.92 ppbv
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion:	88	Resp:	442883
Ion	Ratio	Lower	Upper
88	100		
58	149.8	113.7	170.5
43	311.7	224.0	336.0
57	1435.5	1013.0	1519.6





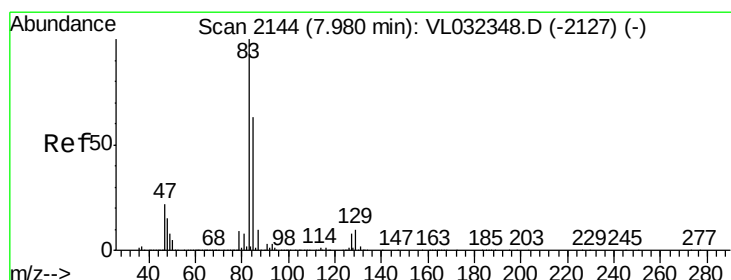
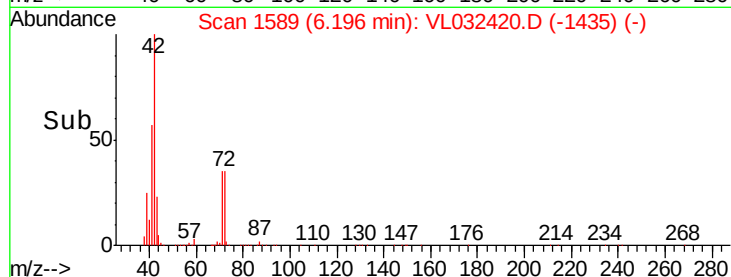
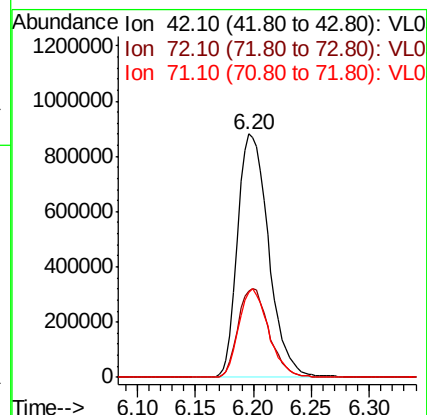
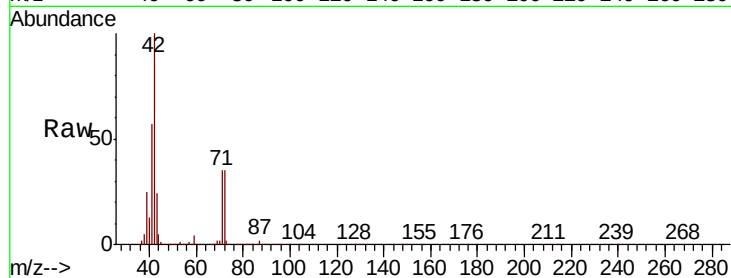
#41
Tetrahydrofuran
Concen: 12.90 ppbv
RT: 6.20 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.2	29.8	44.6
71	34.9	28.2	42.2

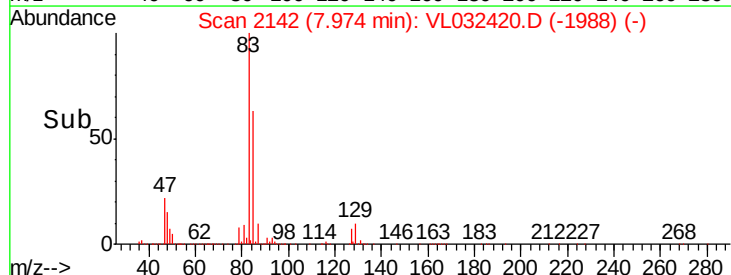
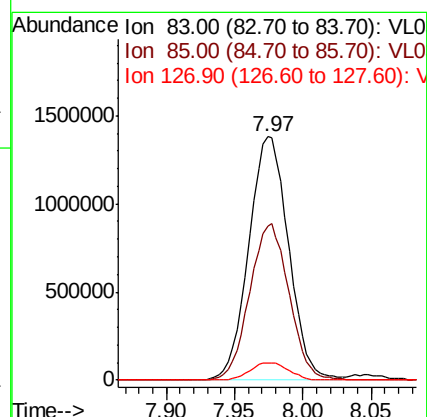
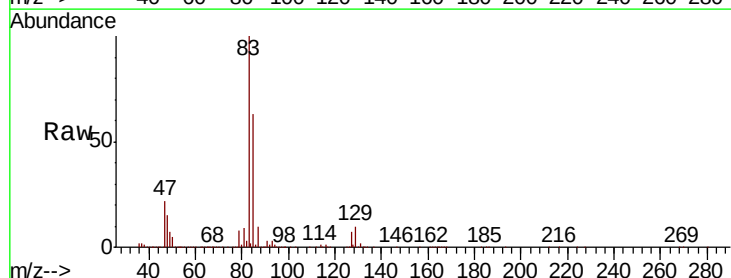
Manual Integrations
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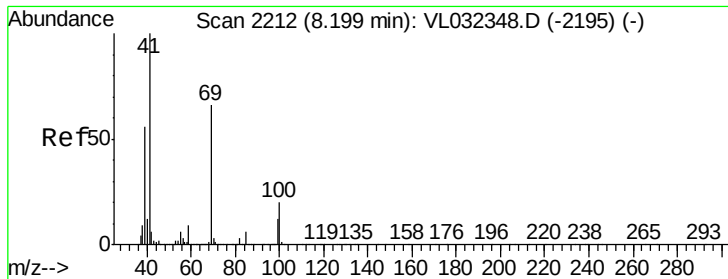
MMDadoda
8/28/2018 2:53:52 PM



#42
Bromodichloromethane
Concen: 12.02 ppbv
RT: 7.97 min Scan# 2142
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.4	75.6
127	7.1	6.1	9.1





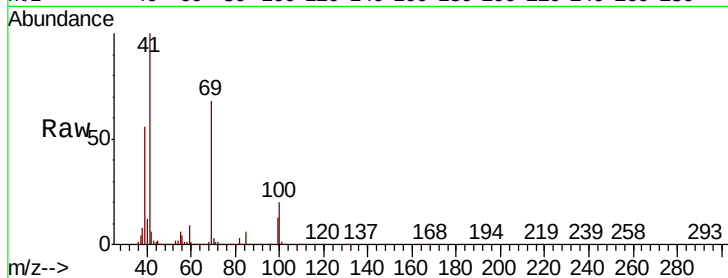
#43
Methvl Methacrylate
Concen: 12.56 ppbv
RT: 8.19 min Scan# 2210
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

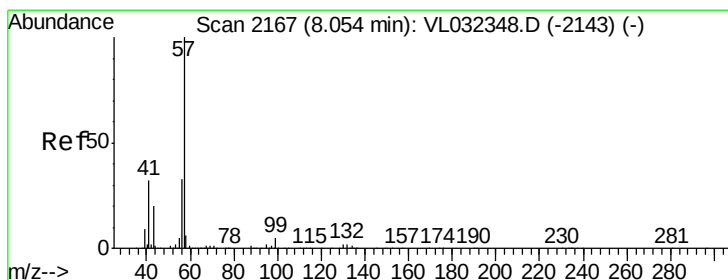
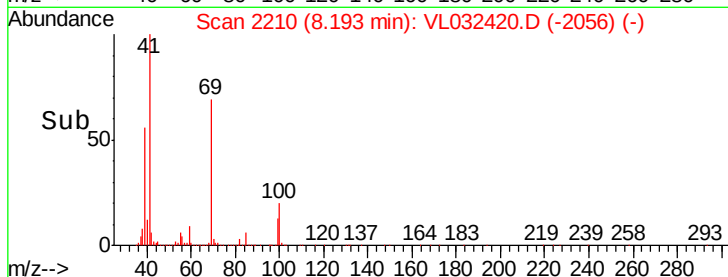
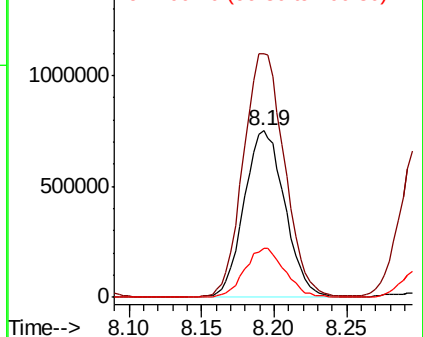
Tot Ion: 69 Resp: 1465523
Ion Ratio Lower Upper
69 100
41 148.4 118.6 177.8
100 29.2 23.4 35.2

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8/28/2018 2:53:52 PM

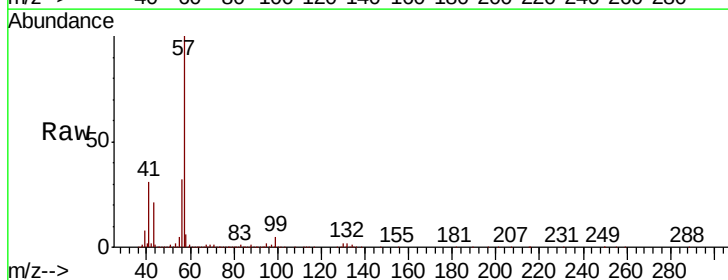


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

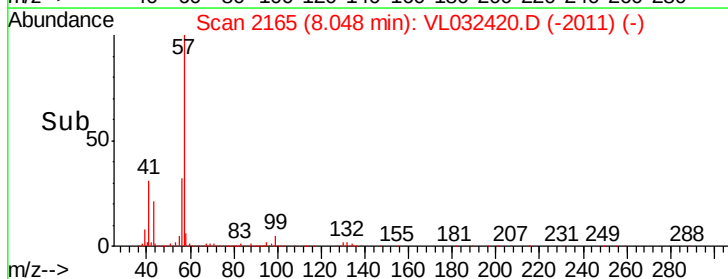
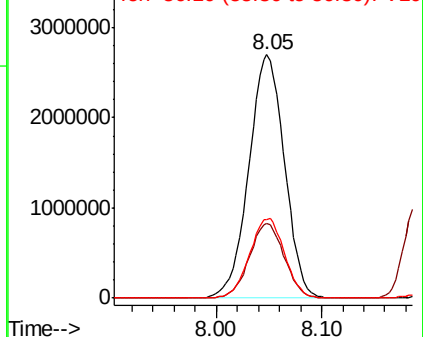


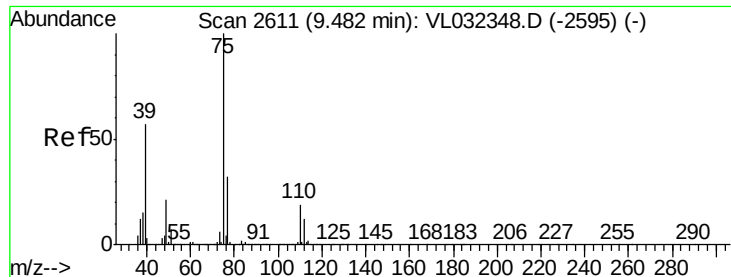
#44
2,2,4-Trimethylpentane
Concen: 12.02 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion: 57 Resp: 6348216
Ion Ratio Lower Upper
57 100
41 30.1 24.3 36.5
56 32.1 25.7 38.5



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 13.84 ppbv

RT: 9.48 min Scan# 2609

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 2042693

Ion Ratio Lower Upper

75 100

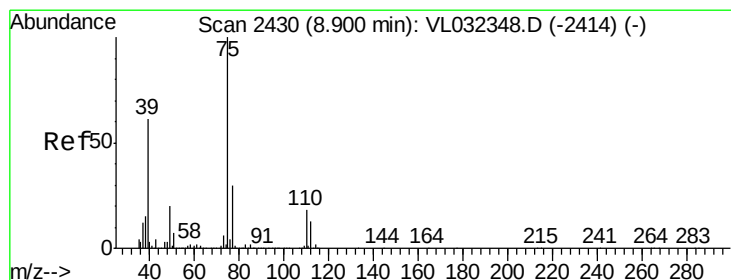
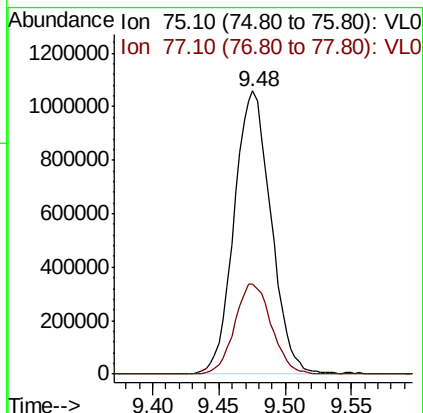
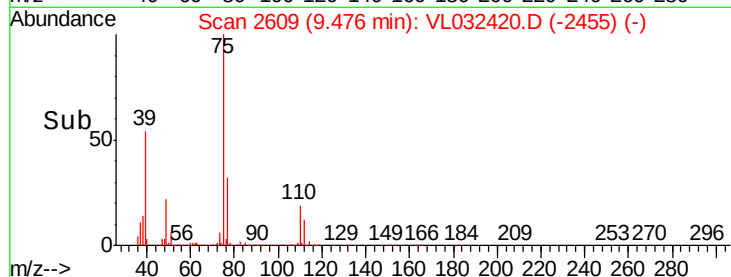
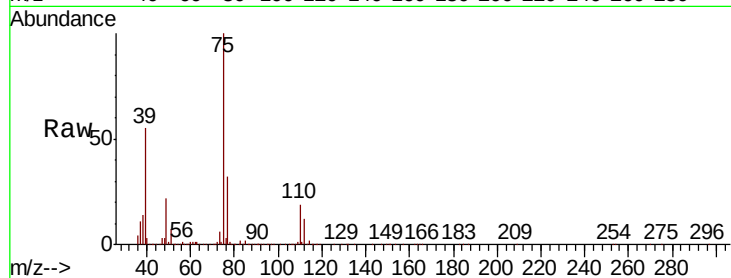
77 32.0 25.4 38.2

Manual Integrations

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8/28/2018 2:53:52 PM



#46

cis-1,3-Dichloropropene

Concen: 13.67 ppbv

RT: 8.89 min Scan# 2428

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

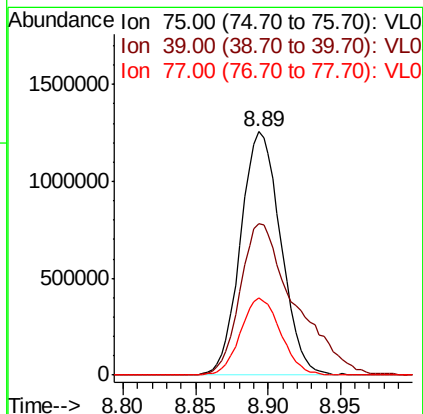
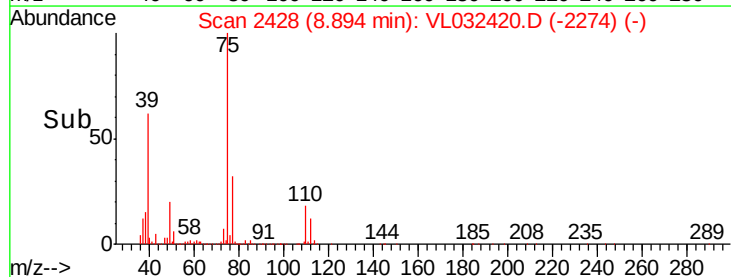
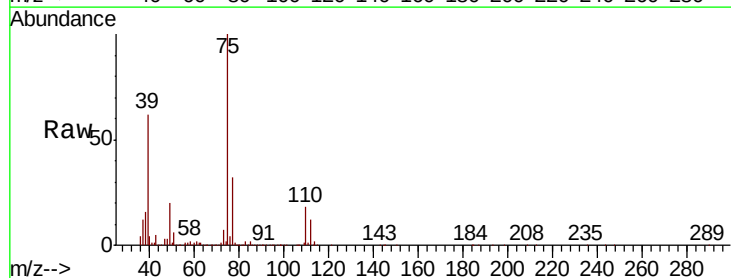
Tgt Ion: 75 Resp: 2420439

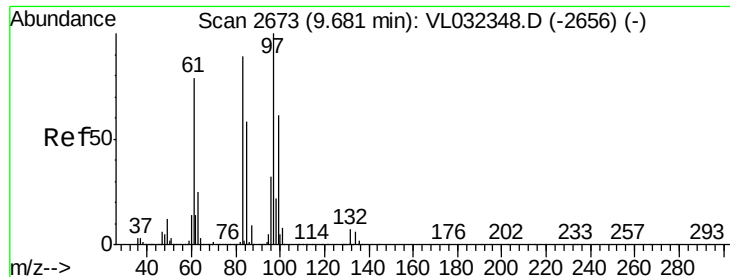
Ion Ratio Lower Upper

75 100

39 62.4 48.5 72.7

77 31.9 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 11.22 ppbv

RT: 9.67 min Scan# 2671

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1511331

Ion Ratio Lower Upper

97 100

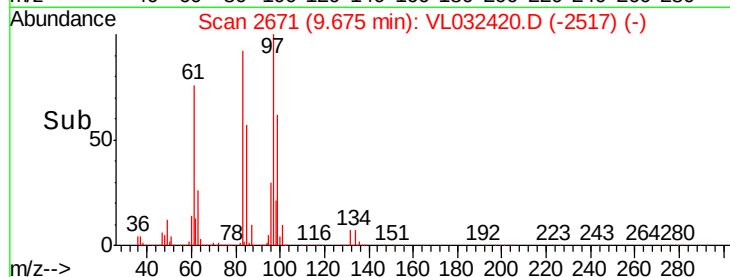
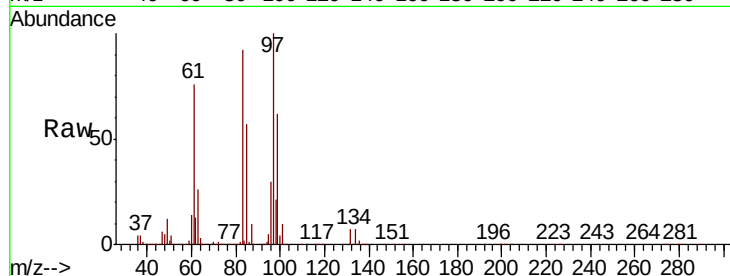
83 91.7 71.2 106.8

85 56.8 46.6 69.8

99 61.6 49.2 73.8

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8/28/2018 2:53:52 PM

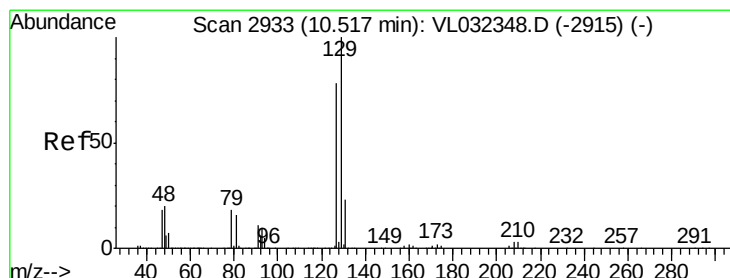
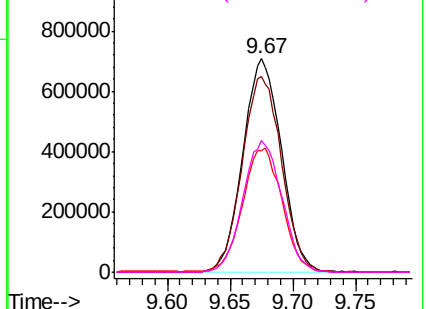


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 11.74 ppbv

RT: 10.51 min Scan# 2931

Delta R.T. -0.01 min

Lab File: VL032420.D

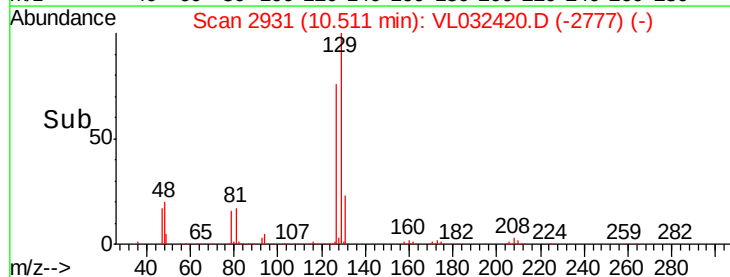
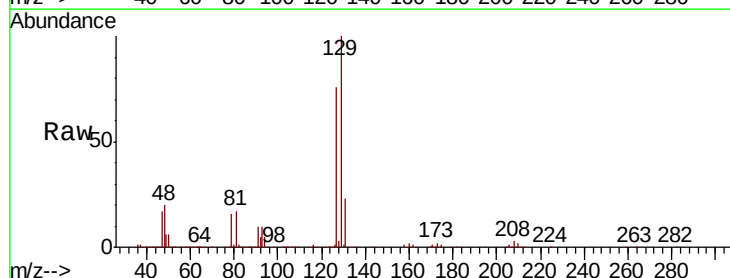
Acq: 21 Aug 2018 12:30

Tgt Ion: 129 Resp: 2113610

Ion Ratio Lower Upper

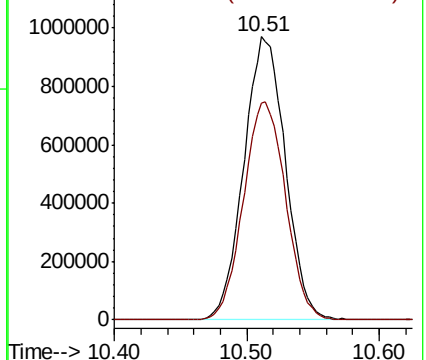
129 100

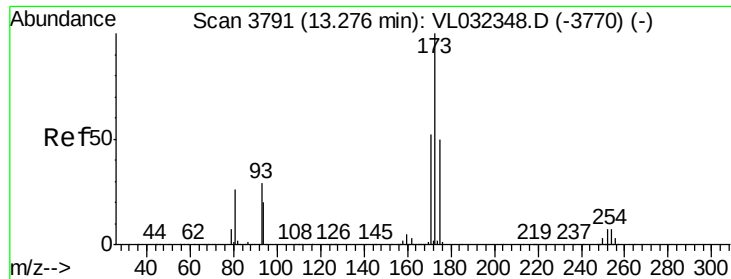
127 78.1 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





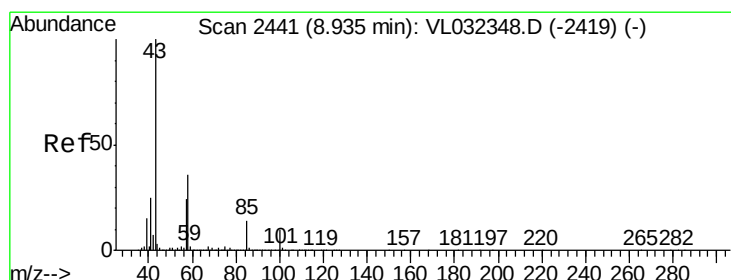
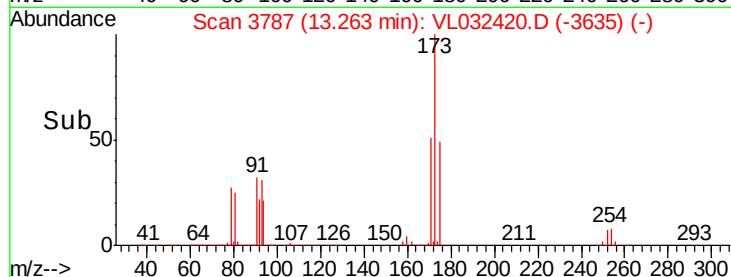
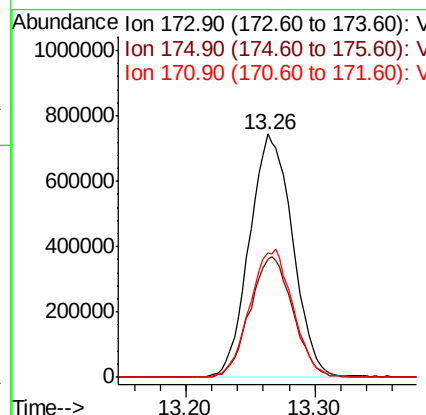
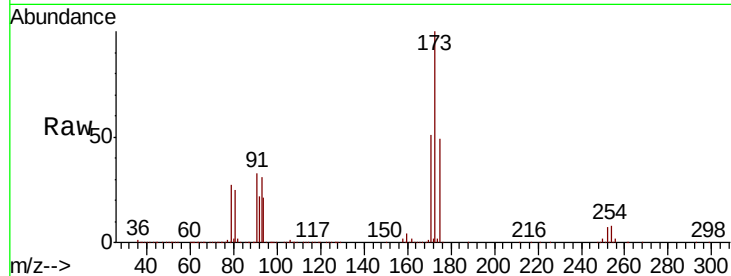
#49
Bromoform
Concen: 11.59 ppbv
RT: 13.26 min Scan# 3787
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	39.3	58.9
171	52.6	41.9	62.9

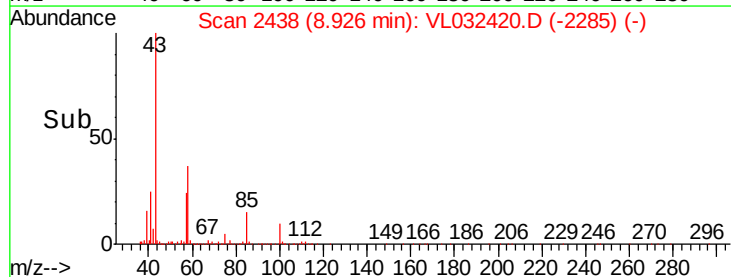
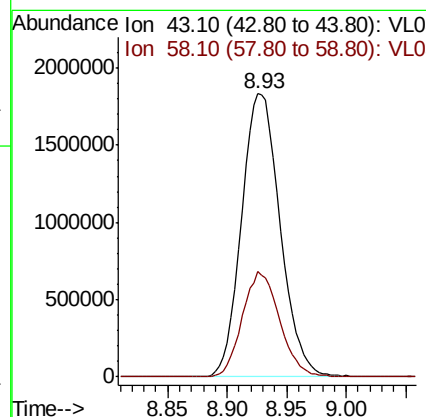
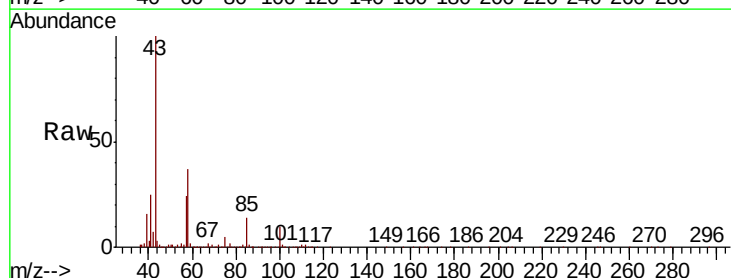
Manual Integrations
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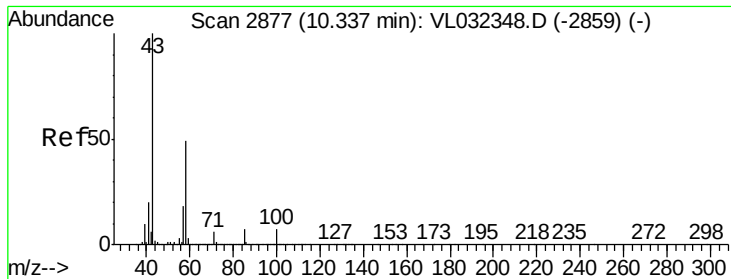
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 12.11 ppbv
RT: 8.93 min Scan# 2438
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.9	43.3





#51

2-Hexanone

Concen: 11.64 ppbv

RT: 10.33 min Scan# 2875

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2775081

Ion Ratio Lower Upper

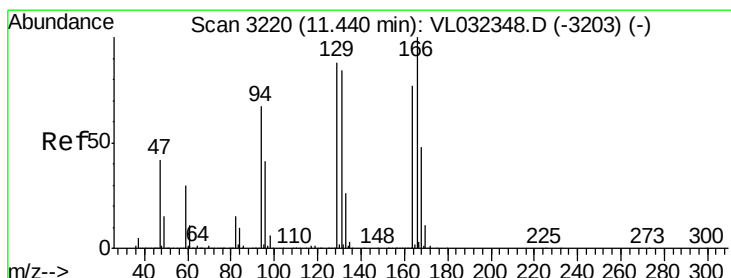
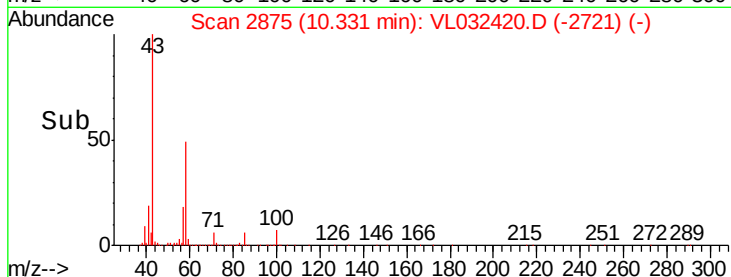
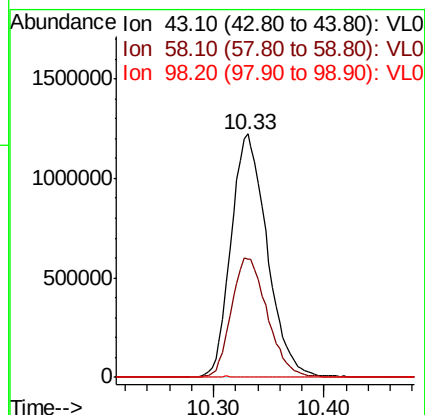
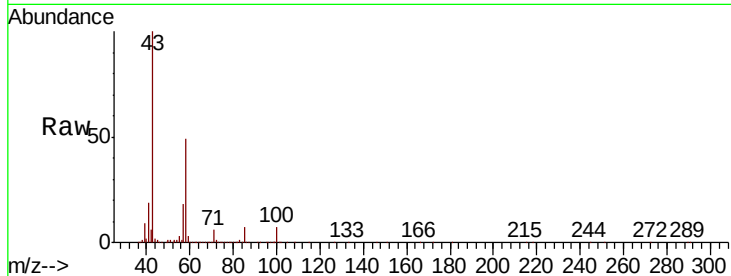
43 100

58 48.9 39.5 59.3

98 0.6 0.3 0.5#

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#52

Tetrachloroethene

Concen: 11.67 ppbv

RT: 11.43 min Scan# 3218

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Tgt Ion: 164 Resp: 1008081

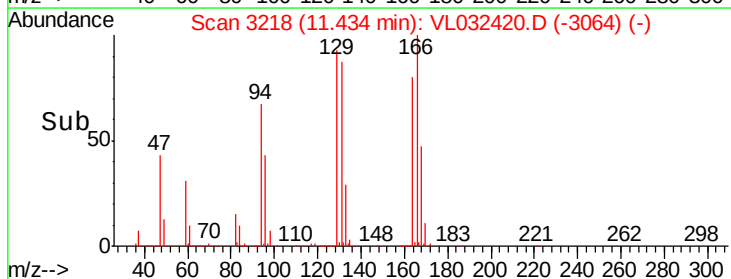
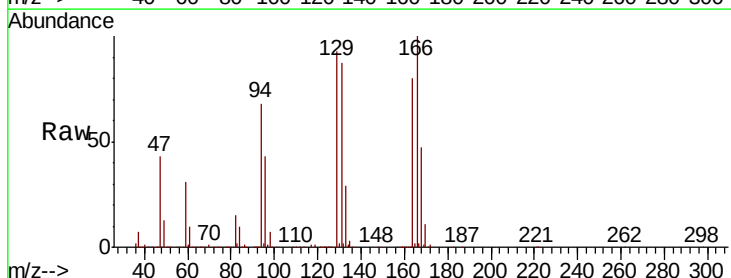
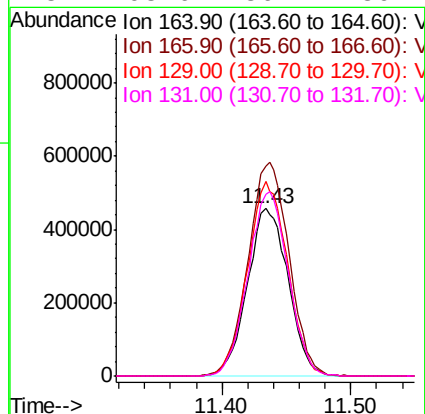
Ion Ratio Lower Upper

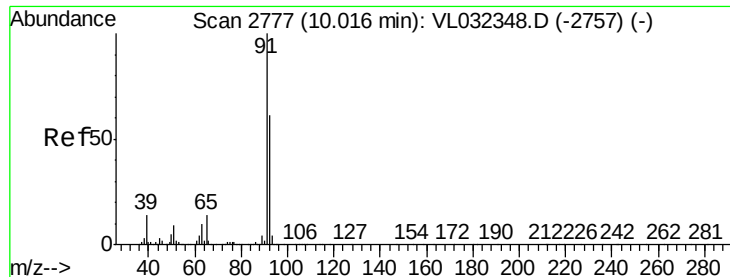
164 100

166 125.2 103.5 155.3

129 116.3 90.9 136.3

131 108.6 86.7 130.1





#53

Toluene

Concen: 13.00 ppbv

RT: 10.01 min Scan# 2775

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4172990

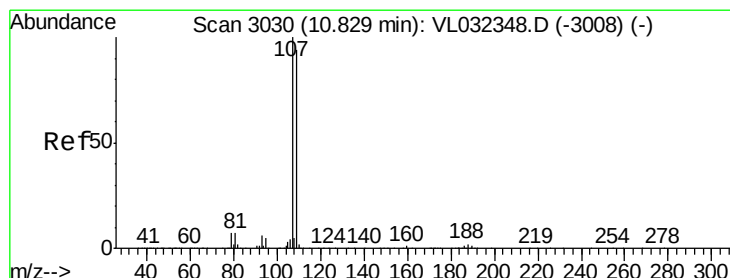
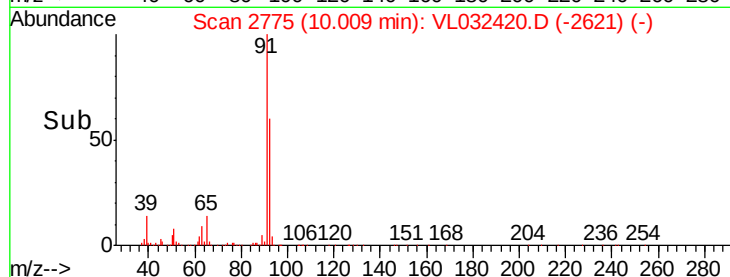
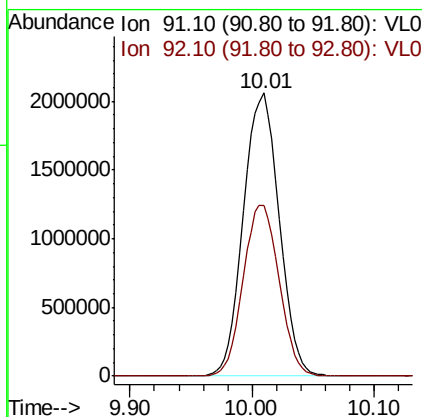
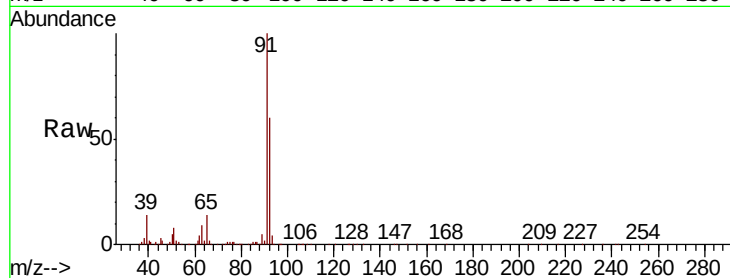
Ion Ratio Lower Upper

91 100

92 60.7 48.7 73.1

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#54

1,2-Dibromoethane

Concen: 11.40 ppbv

RT: 10.82 min Scan# 3028

Delta R.T. -0.01 min

Lab File: VL032420.D

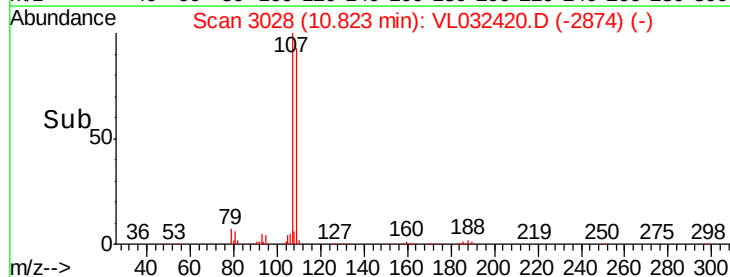
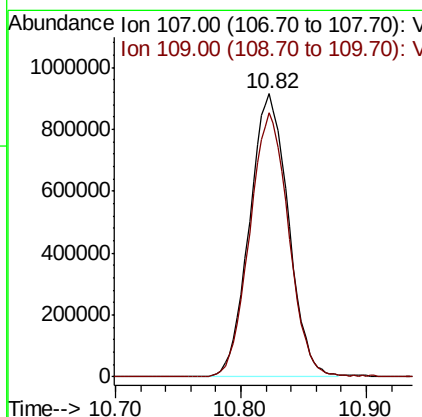
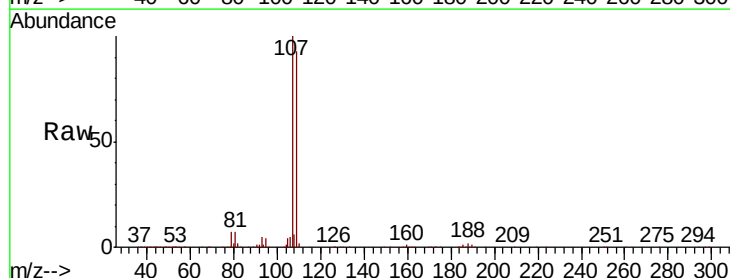
Acq: 21 Aug 2018 12:30

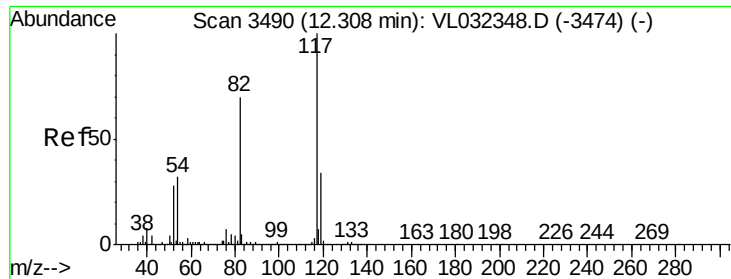
Tgt Ion: 107 Resp: 1971568

Ion Ratio Lower Upper

107 100

109 93.4 74.9 112.3





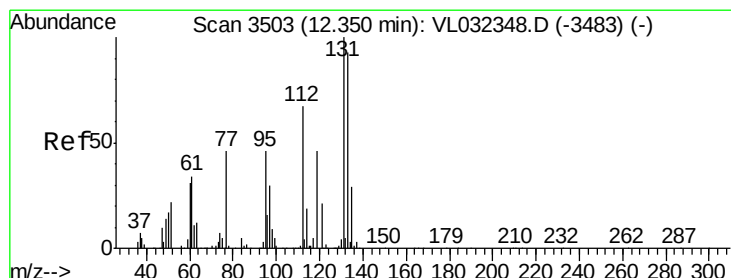
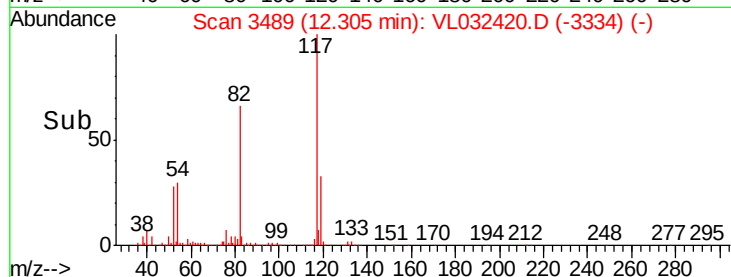
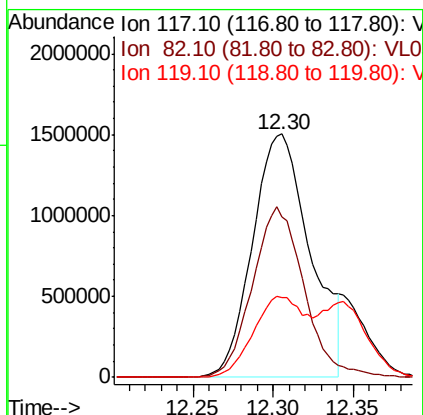
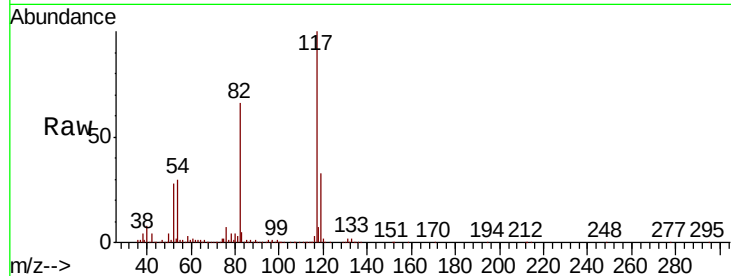
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.5	55.1	82.7
119	30.0	46.0	69.0#

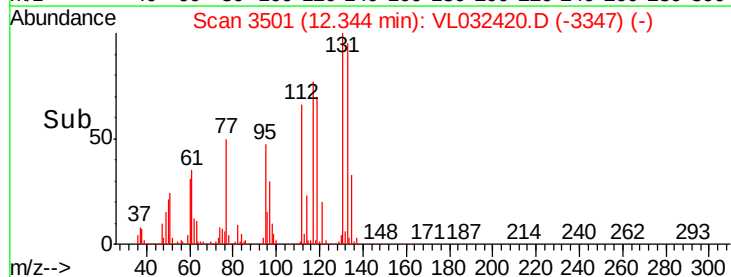
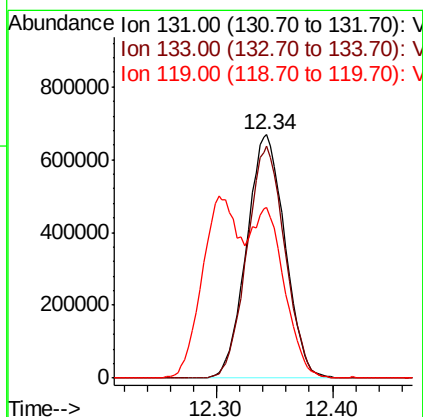
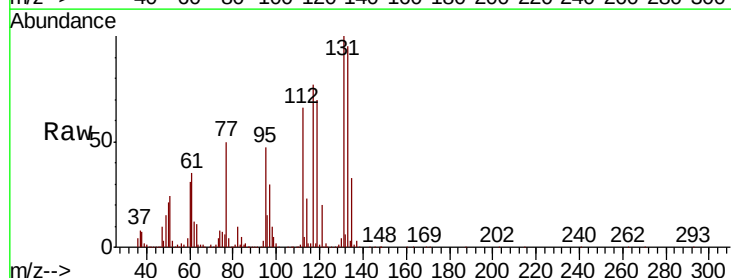
Manual Integrations
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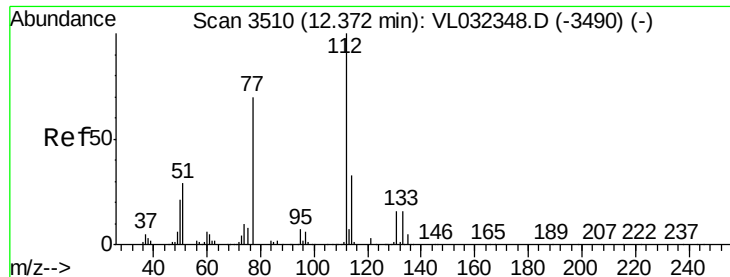
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.85 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	75.7	113.5
119	66.9	116.0	174.0#





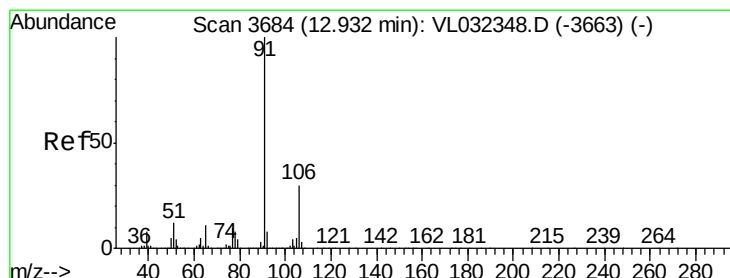
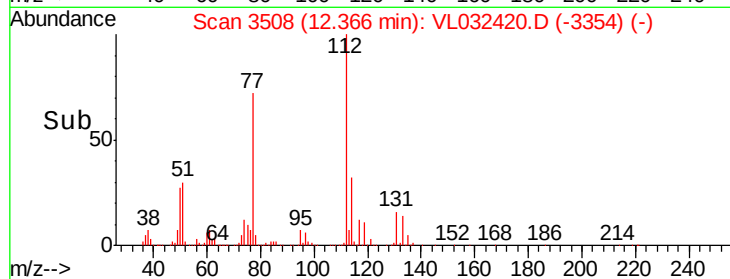
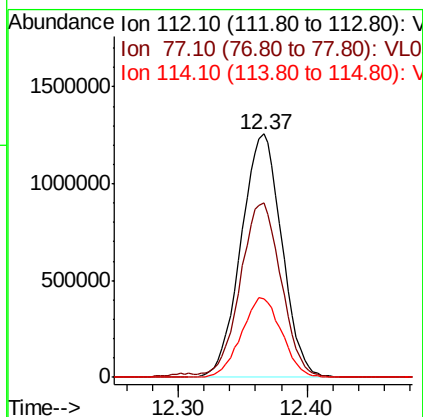
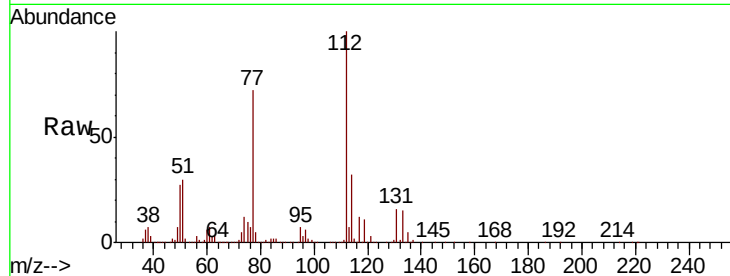
#57
Chlorobenzene
Concen: 9.72 ppbv
RT: 12.37 min Scan# 3508
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.4	56.6	84.8
114	32.3	29.4	36.0

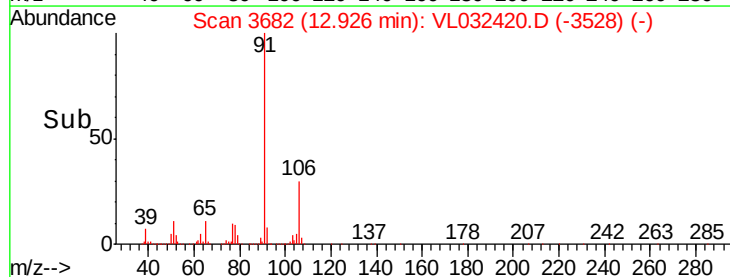
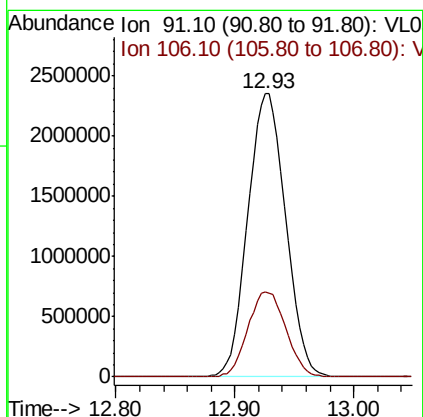
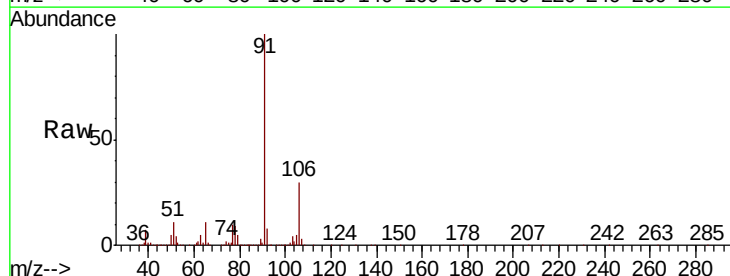
Manual Integrations
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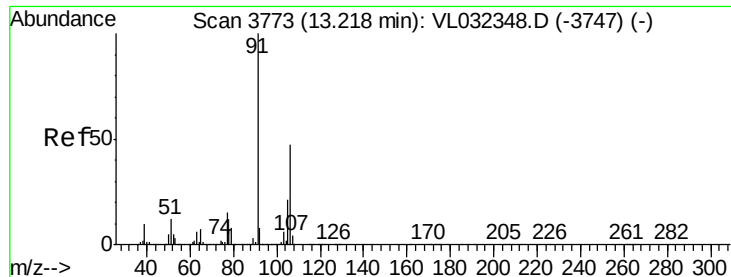
MMDadoda
8/28/2018 2:53:52 PM



#58
Ethyl Benzene
Concen: 11.42 ppbv
RT: 12.93 min Scan# 3682
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5





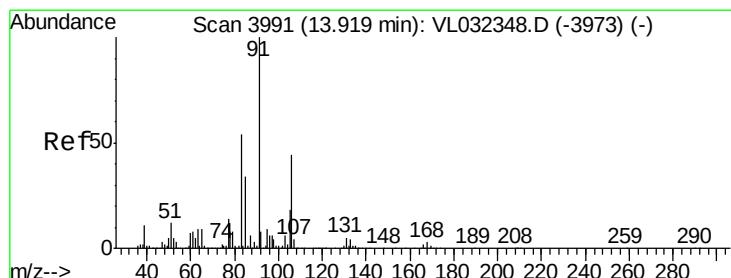
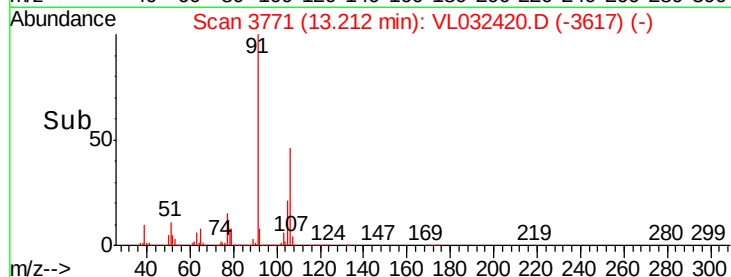
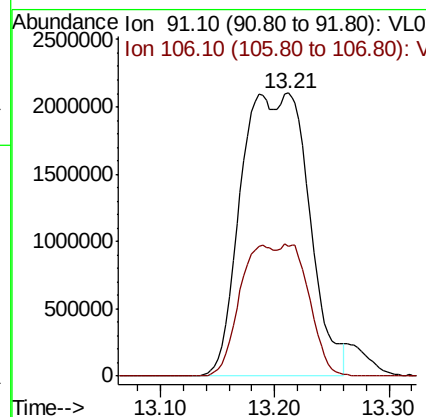
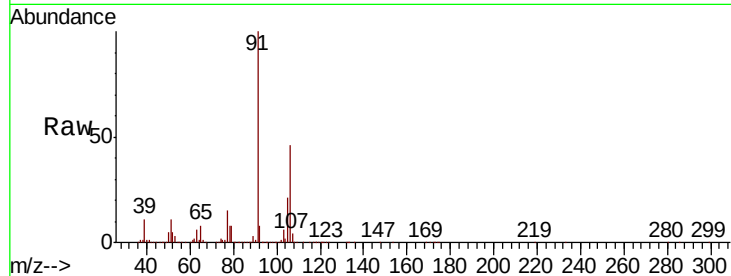
#59
m/p-Xylene
Concen: 22.42 ppbv m
RT: 13.21 min Scan# 3771
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8636288
Ion Ratio Lower Upper
91 100
106 45.6 37.0 55.4

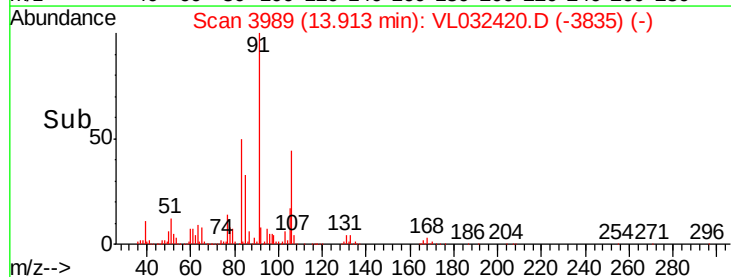
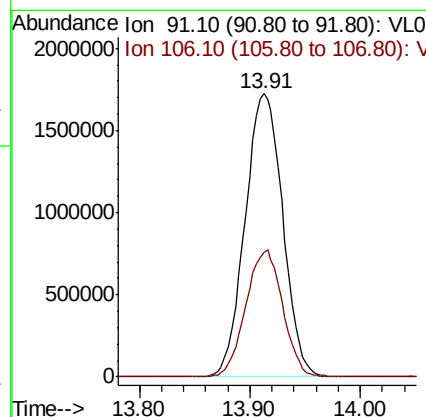
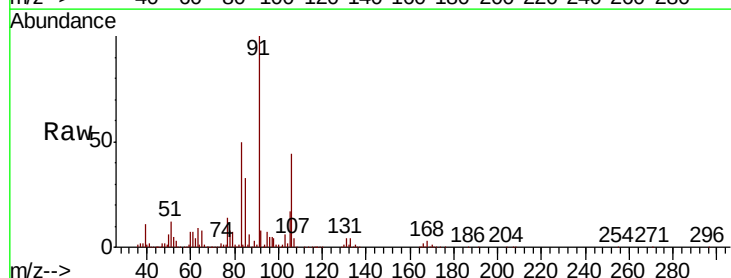
Manual Integrations
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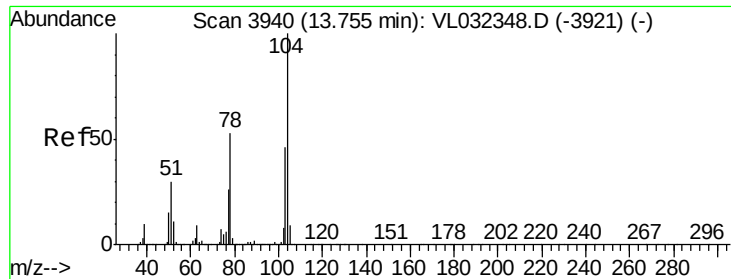
MMDadoda
8/28/2018 2:53:52 PM



#60
o-Xylene
Concen: 10.75 ppbv
RT: 13.91 min Scan# 3989
Delta R.T. -0.01 min
Lab File: VL032420.D
Acq: 21 Aug 2018 12:30

Tgt Ion: 91 Resp: 4071165
Ion Ratio Lower Upper
91 100
106 43.9 22.3 66.8





#61

Stvrene

Concen: 12.01 ppbv

RT: 13.75 min Scan# 3938

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 3178998

Ion Ratio Lower Upper

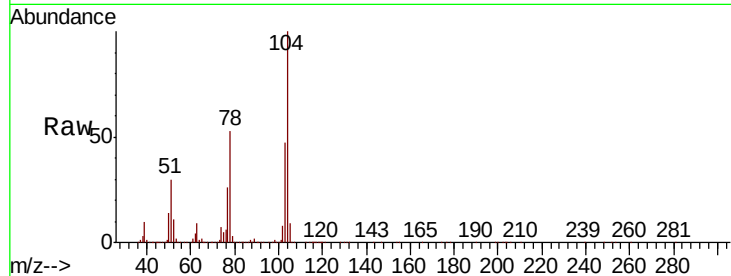
104 100

78 52.9 42.6 64.0

103 47.5 38.0 57.0

Manual Integrations
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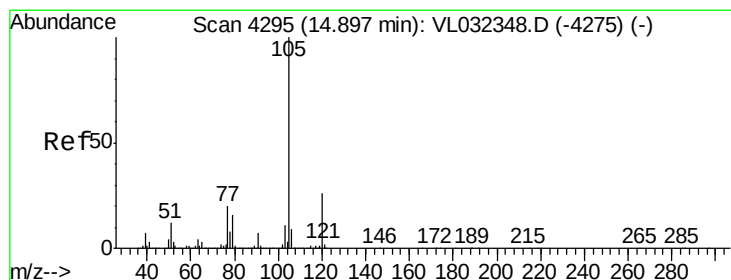
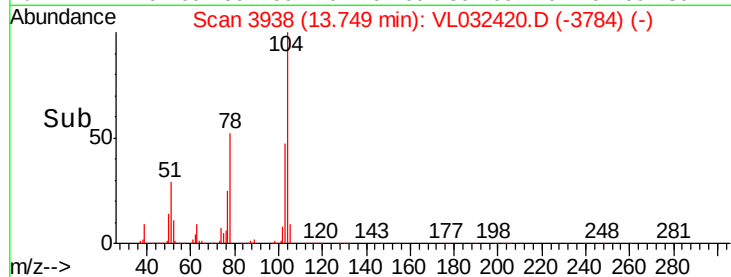
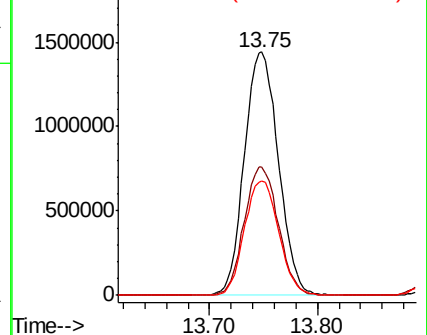
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.41 ppbv

RT: 14.89 min Scan# 4292

Delta R.T. -0.01 min

Lab File: VL032420.D

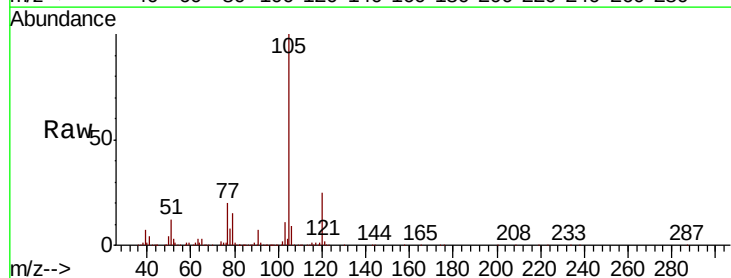
Acq: 21 Aug 2018 12:30

Tgt Ion:105 Resp: 5613404

Ion Ratio Lower Upper

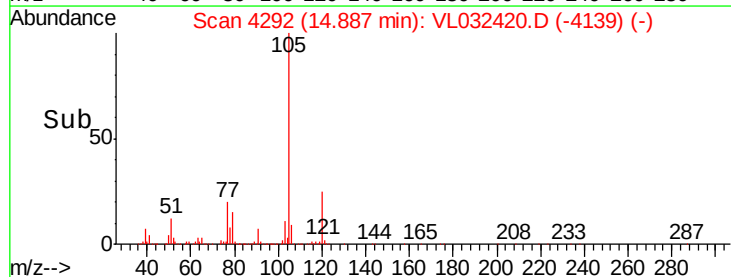
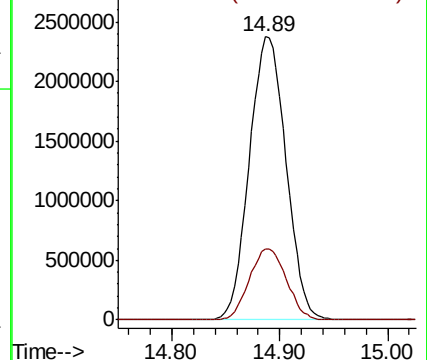
105 100

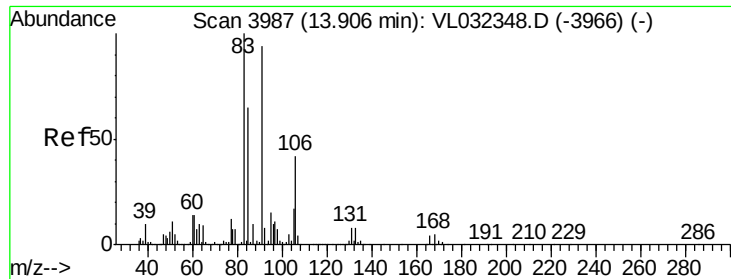
120 25.4 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.24 ppbv

RT: 13.90 min Scan# 3985

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2940599

Ion Ratio Lower Upper

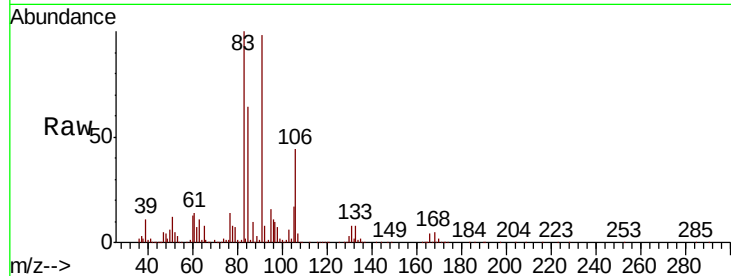
83 100

131 8.4 4.3 12.8

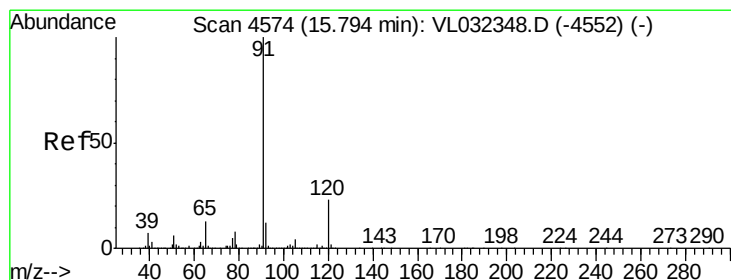
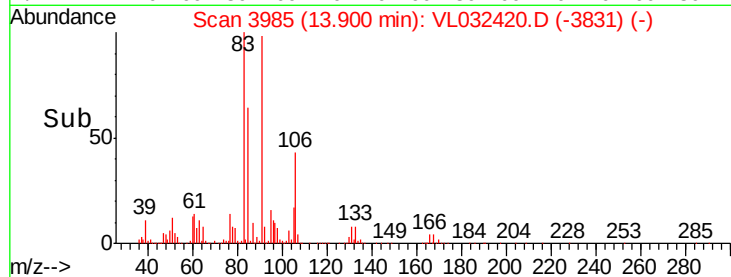
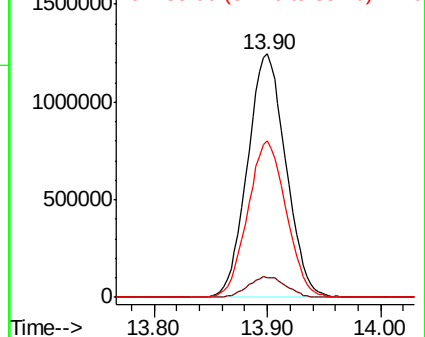
85 64.4 32.4 97.2

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



#64

n-propylbenzene

Concen: 10.45 ppbv

RT: 15.79 min Scan# 4572

Delta R.T. -0.01 min

Lab File: VL032420.D

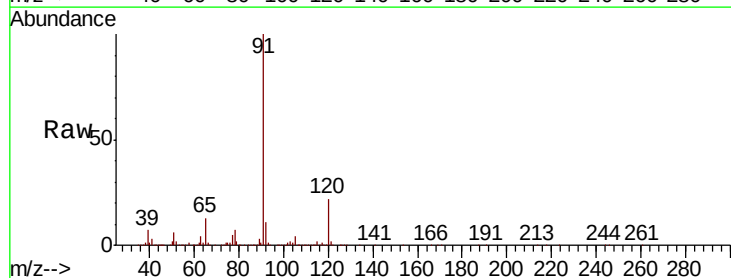
Acq: 21 Aug 2018 12:30

Tgt Ion:120 Resp: 1457356

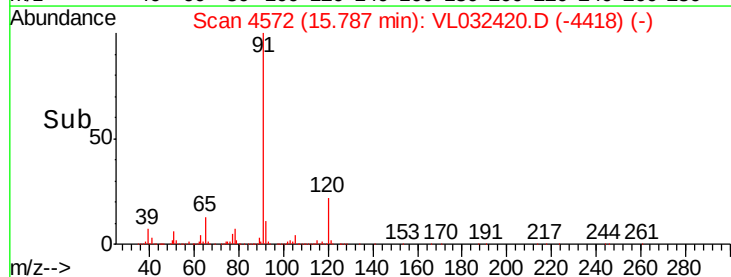
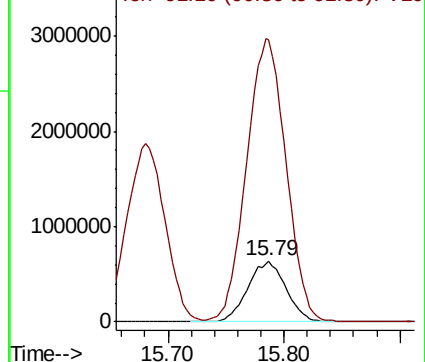
Ion Ratio Lower Upper

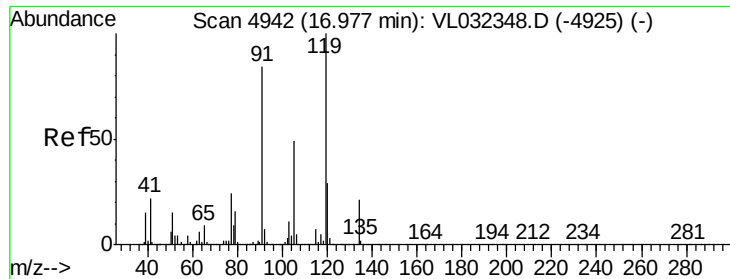
120 100

91 483.4 382.2 573.2



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





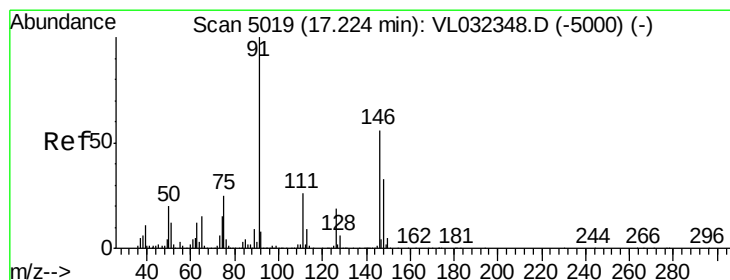
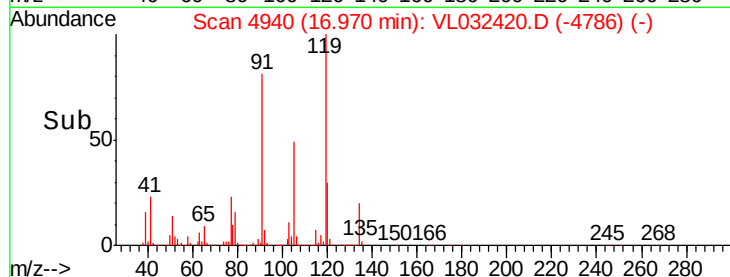
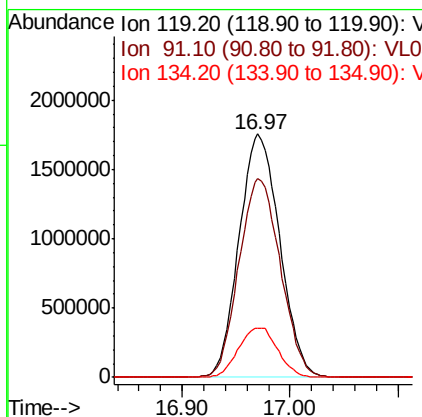
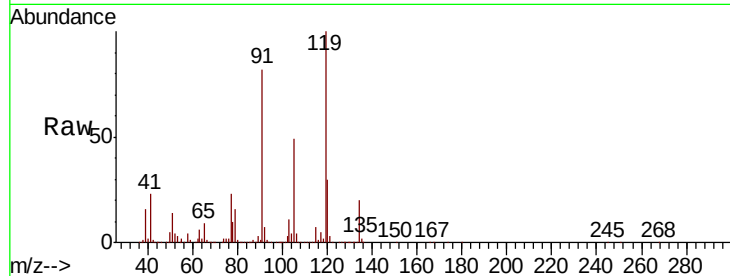
#65
 tert-Butylbenzene
 Concen: 9.98 ppbv
 RT: 16.97 min Scan# 4940
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 4593911
 Ion Ratio Lower Upper
 119 100
 91 83.5 67.4 101.0
 134 19.7 15.8 23.6

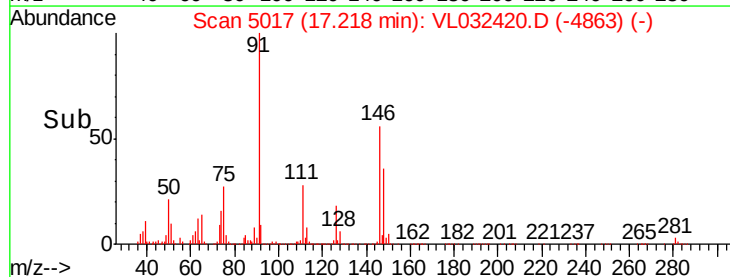
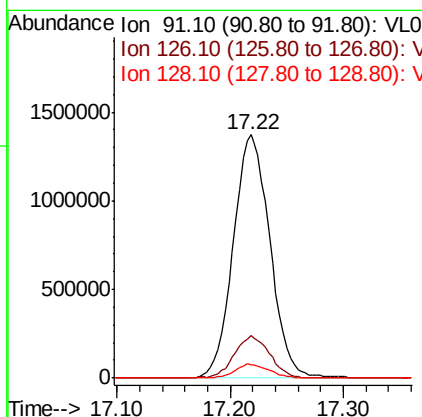
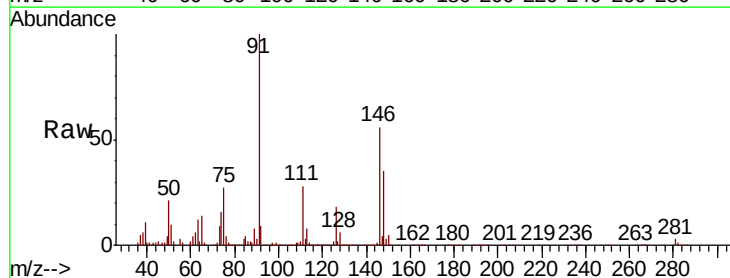
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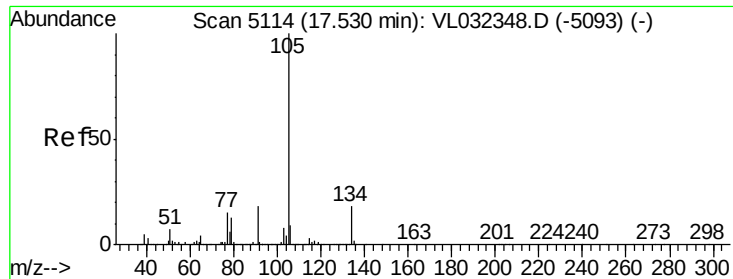
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#66
 Benzyl Chloride
 Concen: 11.29 ppbv
 RT: 17.22 min Scan# 5017
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion: 91 Resp: 3077332
 Ion Ratio Lower Upper
 91 100
 126 17.2 14.2 21.4
 128 5.4 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.99 ppbv

RT: 17.52 min Scan# 5112

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6841755

Ion Ratio Lower Upper

105 100

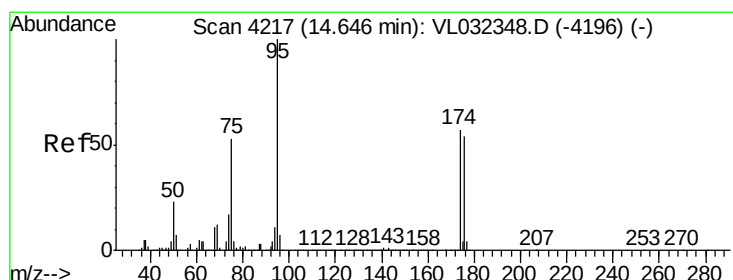
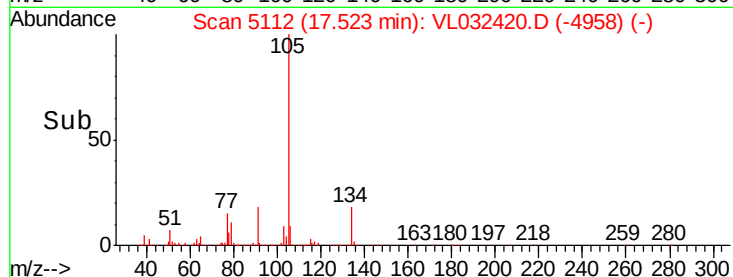
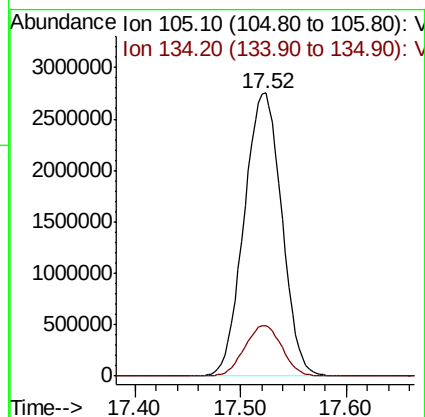
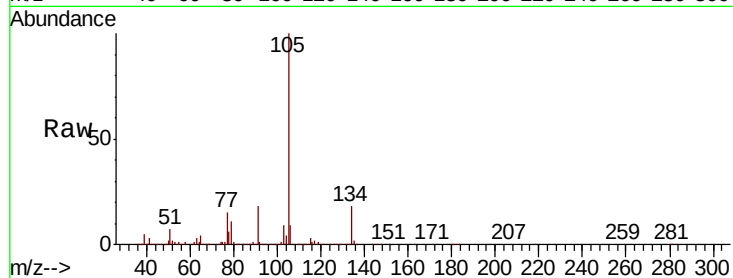
134 17.7 14.4 21.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.30 ppbv

RT: 14.64 min Scan# 4215

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

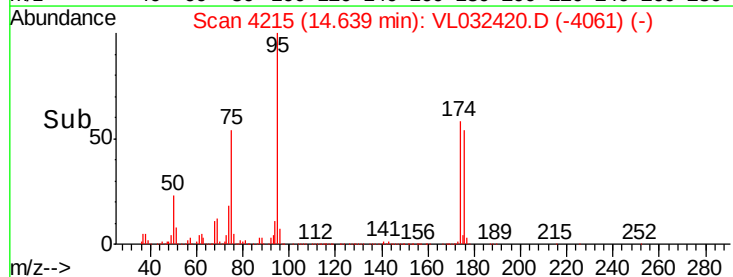
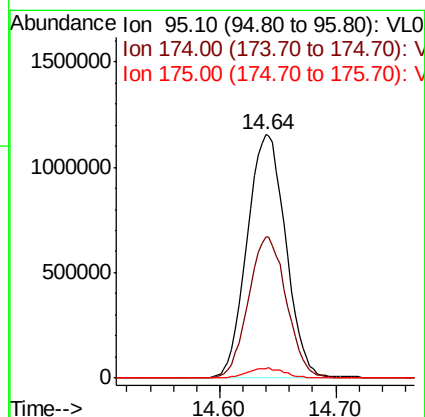
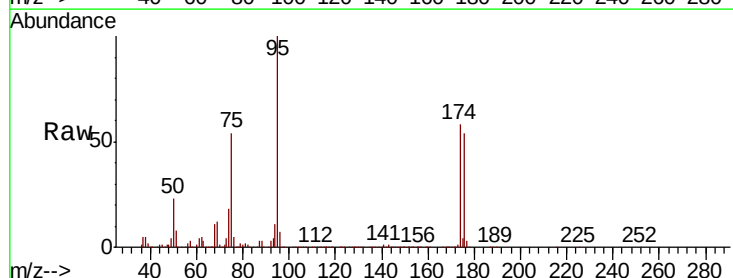
Tgt Ion: 95 Resp: 2675351

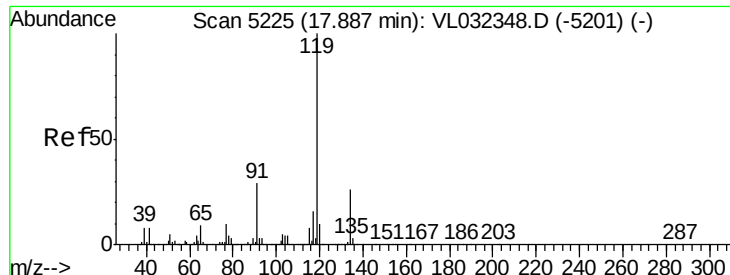
Ion Ratio Lower Upper

95 100

174 57.2 46.2 69.4

175 4.1 3.4 5.0





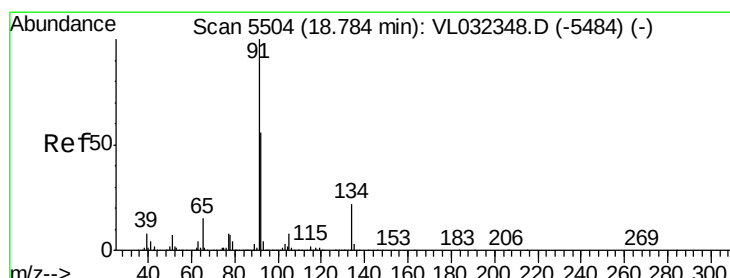
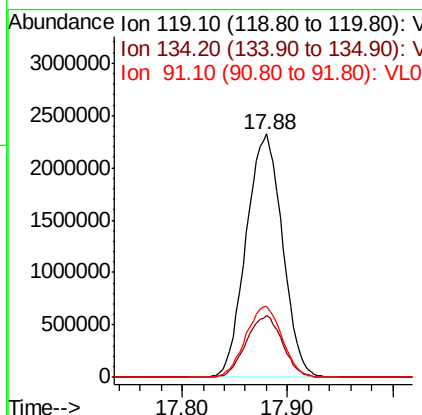
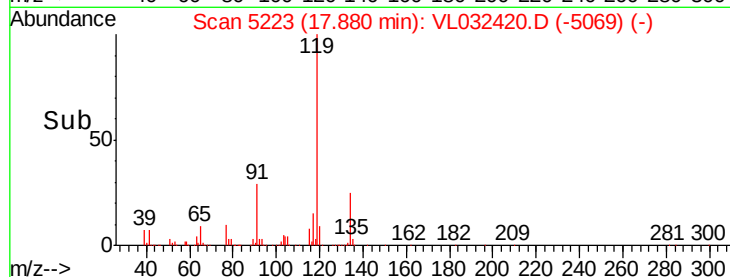
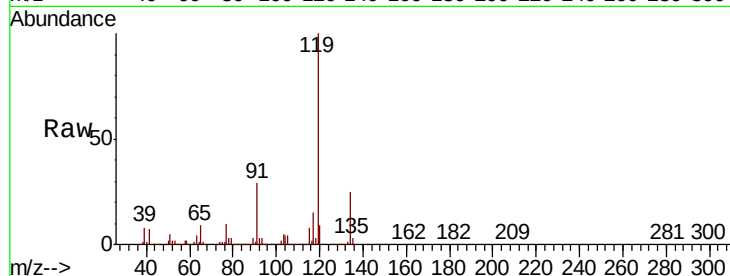
#69
 p-Isopropyltoluene
 Concen: 10.62 ppbv
 RT: 17.88 min Scan# 5223
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.4	30.6
91	29.2	23.6	35.4

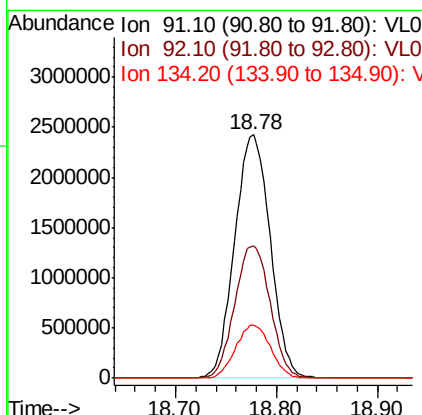
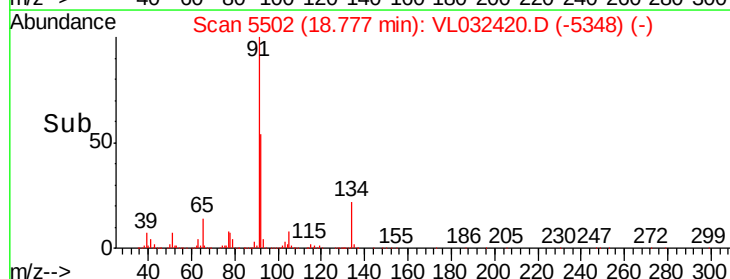
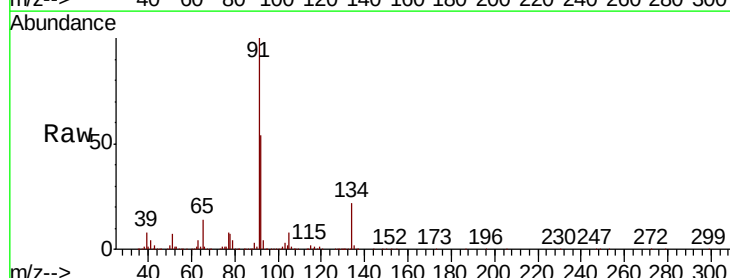
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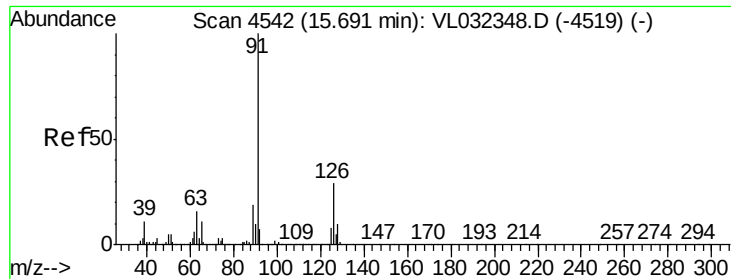
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#70
 n-Butylbenzene
 Concen: 10.28 ppbv
 RT: 18.78 min Scan# 5502
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.9	65.9
134	21.5	17.3	25.9





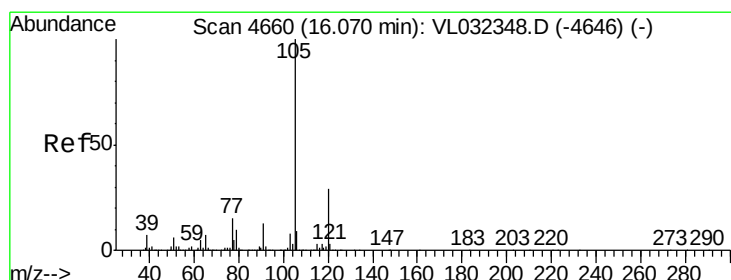
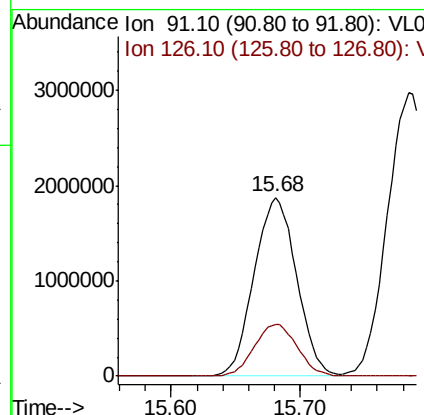
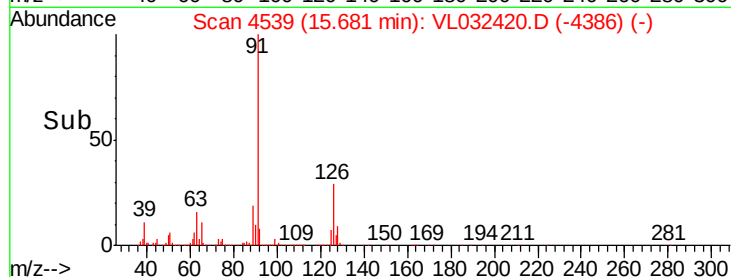
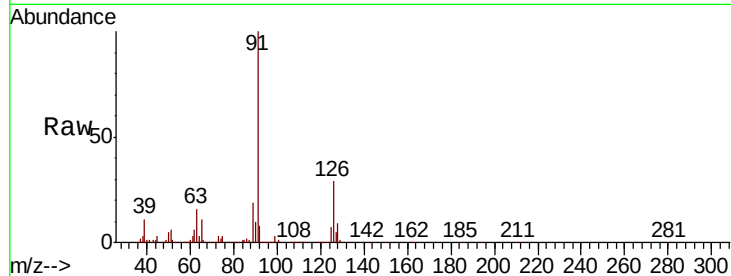
#71
 2-Chlorotoluene
 Concen: 10.33 ppbv
 RT: 15.68 min Scan# 4539
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 4309252
 Ion Ratio Lower Upper
 91 100
 126 29.3 11.8 47.2

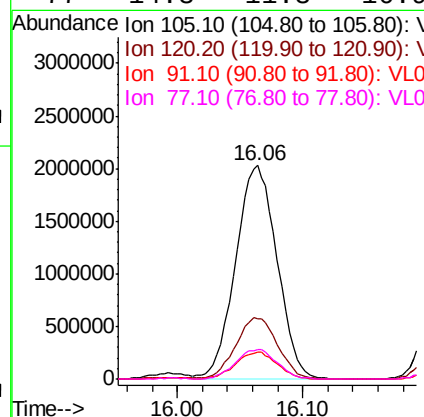
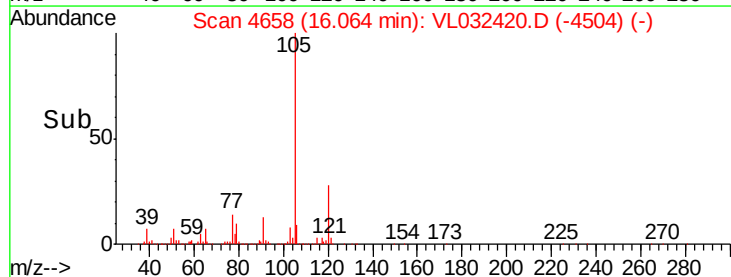
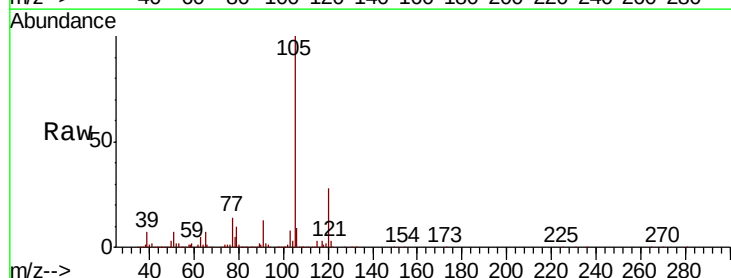
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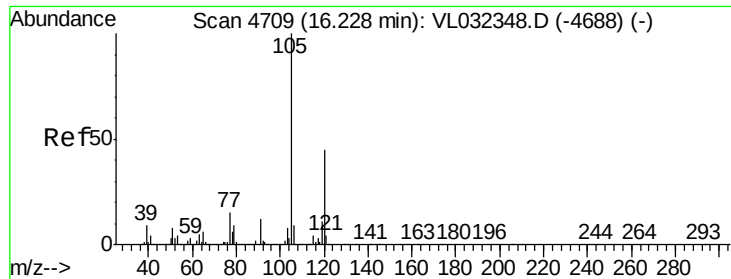
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#72
 4-Ethyltoluene
 Concen: 10.98 ppbv
 RT: 16.06 min Scan# 4658
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion: 105 Resp: 4637489
 Ion Ratio Lower Upper
 105 100
 120 29.1 23.4 35.0
 91 13.1 10.0 15.0
 77 14.3 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.69 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.00 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4343100

Ion Ratio Lower Upper

105 100

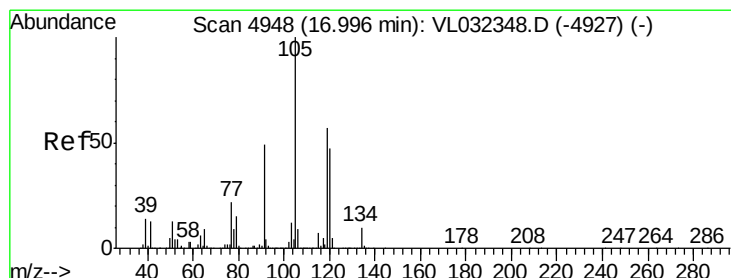
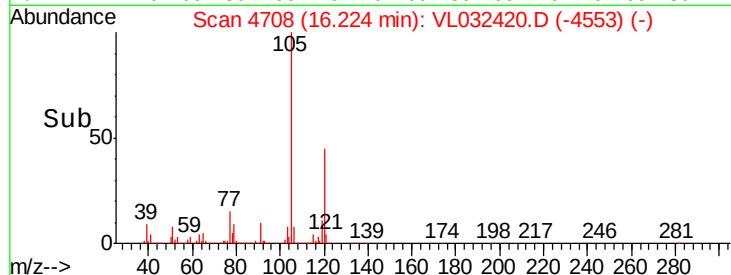
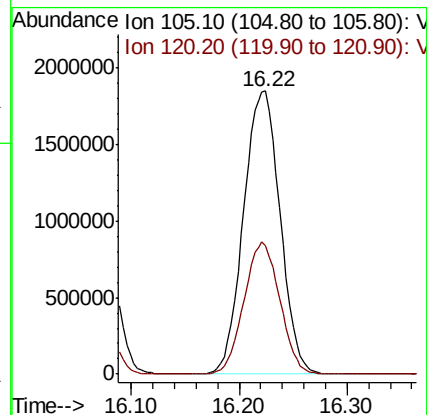
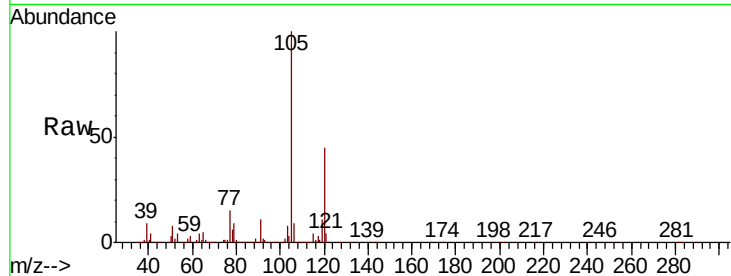
120 45.4 36.3 54.5

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#74

1,2,4-Trimethylbenzene

Concen: 9.93 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Tgt Ion:105 Resp: 4291416

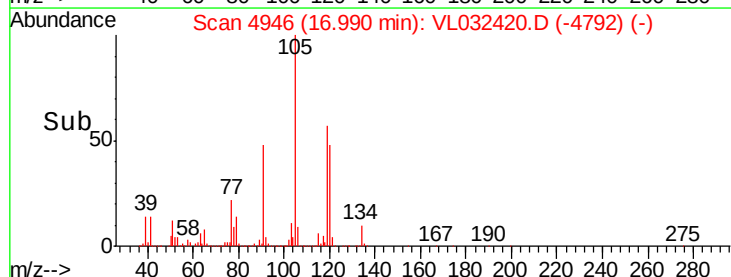
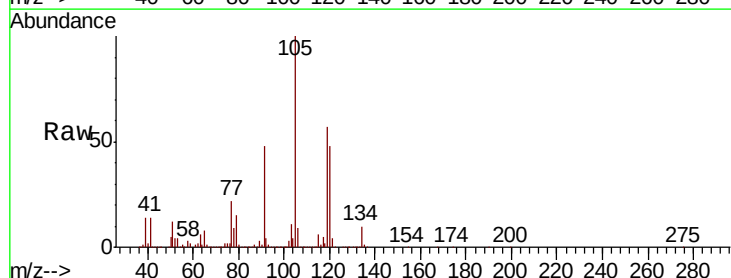
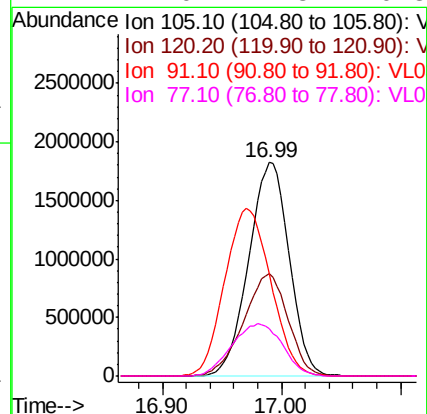
Ion Ratio Lower Upper

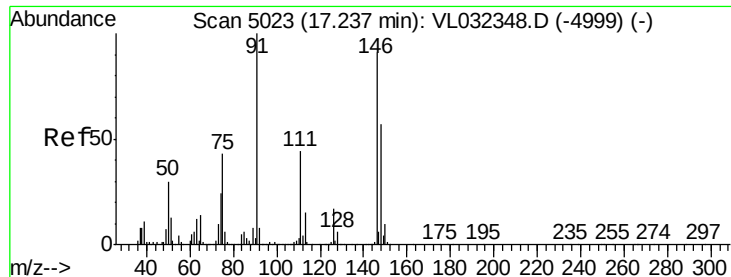
105 100

120 47.8 37.6 56.4

91 48.1 39.9 59.9

77 22.0 17.8 26.8





#75

1,3-Dichlorobenzene

Concen: 9.10 ppbv

RT: 17.23 min Scan# 5020

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2362573

Ion Ratio Lower Upper

146 100

111 48.8 24.6 73.8

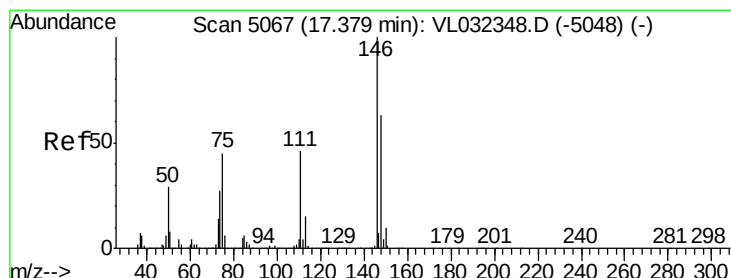
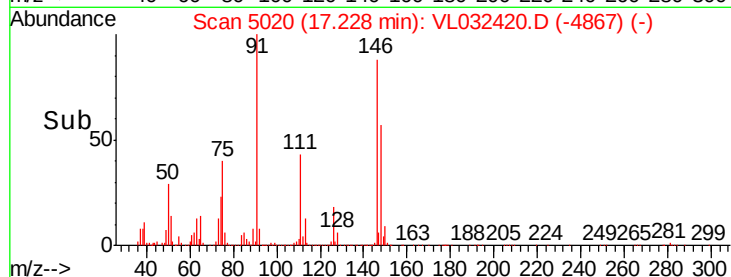
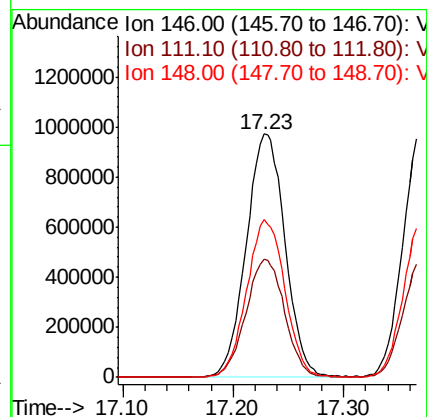
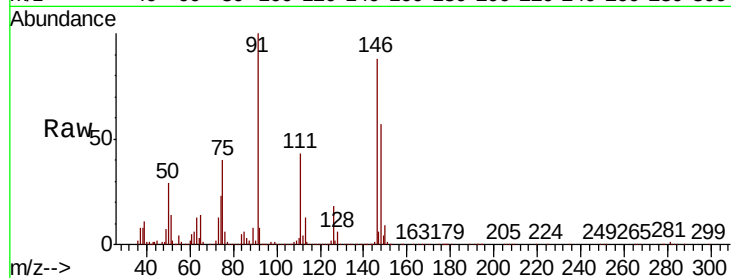
148 64.1 32.0 96.0

Manual Integrations

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#76

1,4-Dichlorobenzene

Concen: 9.61 ppbv

RT: 17.37 min Scan# 5065

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

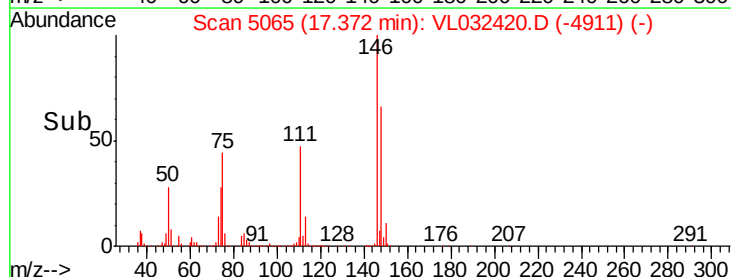
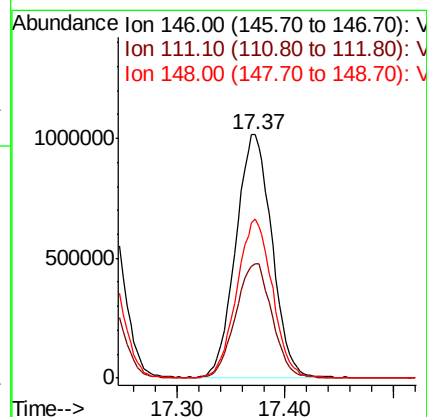
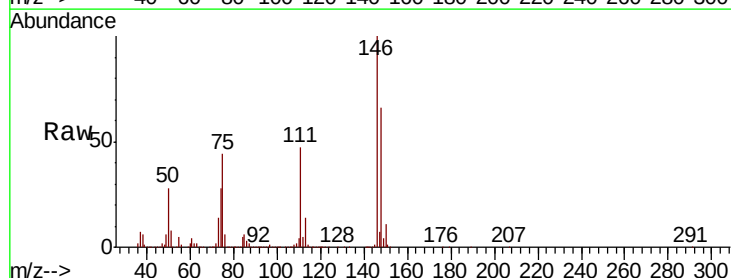
Tgt Ion:146 Resp: 2365382

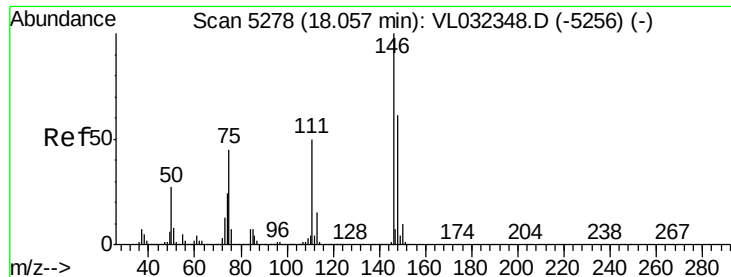
Ion Ratio Lower Upper

146 100

111 47.4 23.8 71.4

148 64.6 32.2 96.6





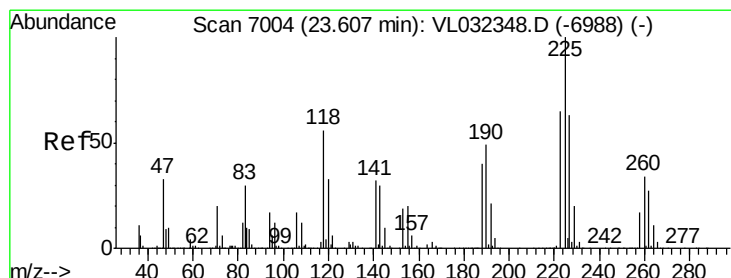
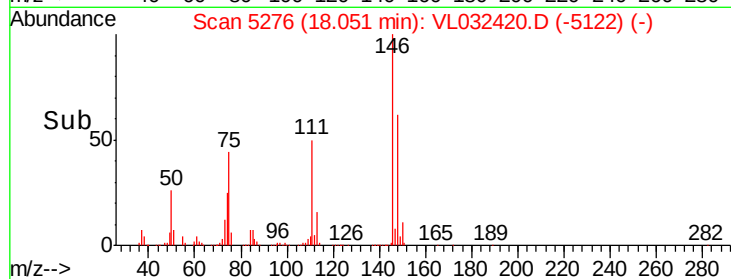
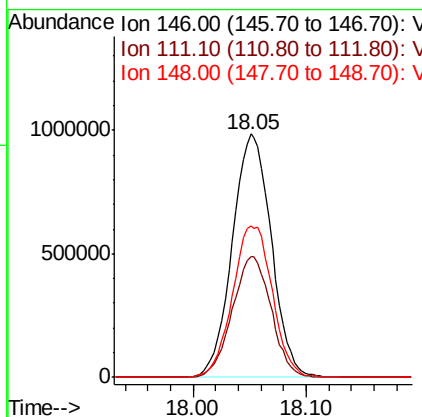
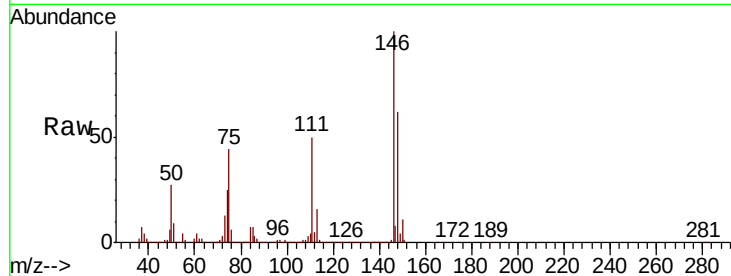
#77
 1,2-Dichlorobenzene
 Concen: 9.48 ppbv
 RT: 18.05 min Scan# 5276
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.6	25.2	75.6
148	63.7	31.8	95.4

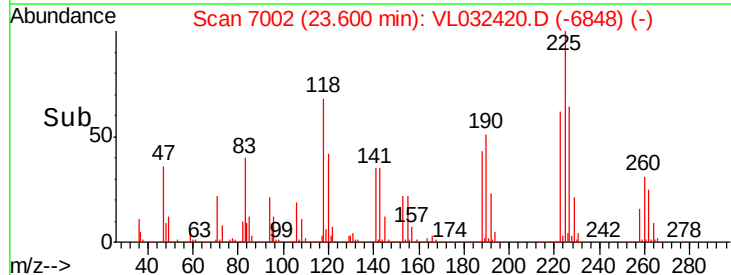
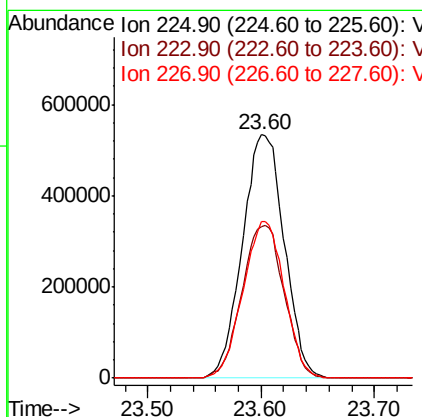
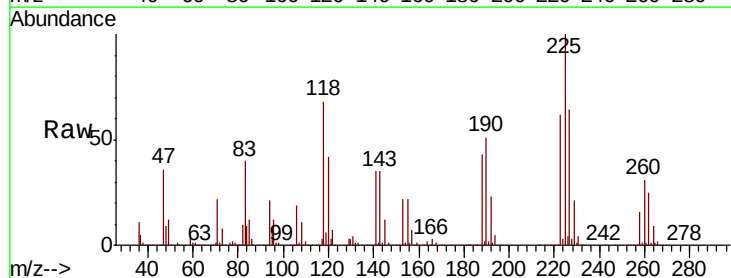
Manual Integrations
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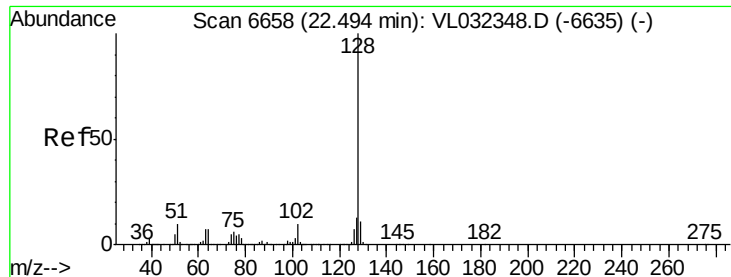
MMDadoda
 8/28/2018 2:53:52 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 16.47 ppbv
 RT: 23.60 min Scan# 7002
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.6	76.0
227	63.6	51.0	76.6





#79

Naphthalene

Concen: 9.87 ppbv

RT: 22.48 min Scan# 6655

Delta R.T. -0.01 min

Lab File: VL032420.D

Acq: 21 Aug 2018 12:30

Instrument :

MSVOA_L

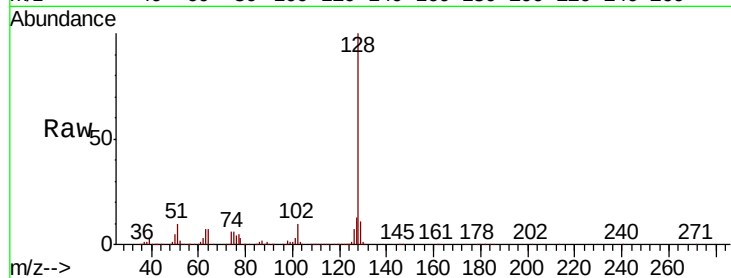
ClientSampleId :

VSTDCCC010EC

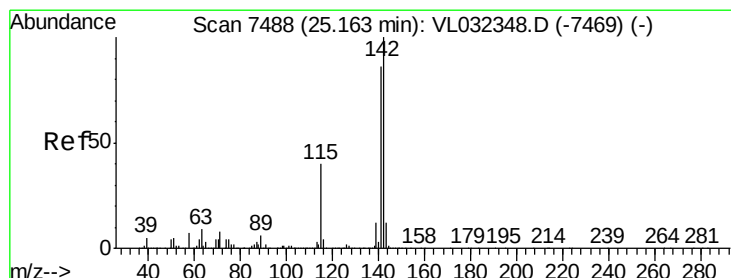
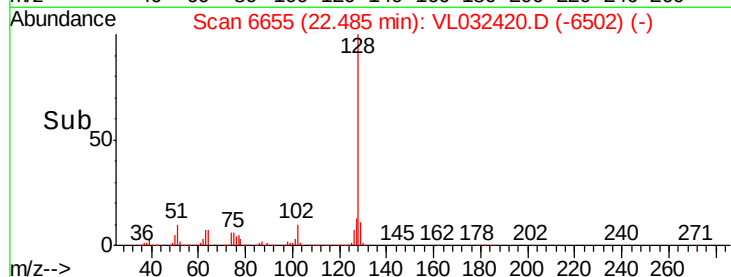
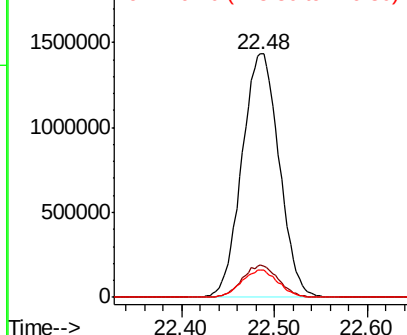
Tot Ion:128	Resp: 3985985
Ion Ratio	Lower Upper
128 100	
127 13.2	10.3 15.5
129 11.4	8.6 13.0

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



#80

Naphthalene, 2-methyl-

Concen: 21.35 ppbv

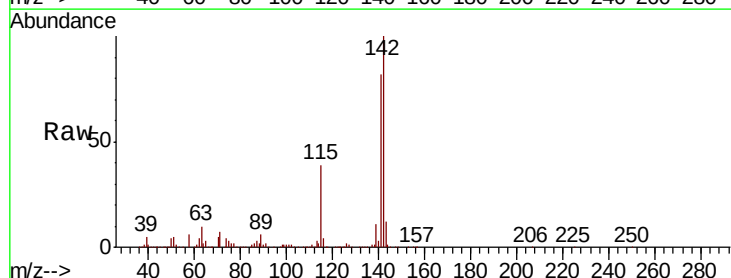
RT: 25.16 min Scan# 7487

Delta R.T. -0.00 min

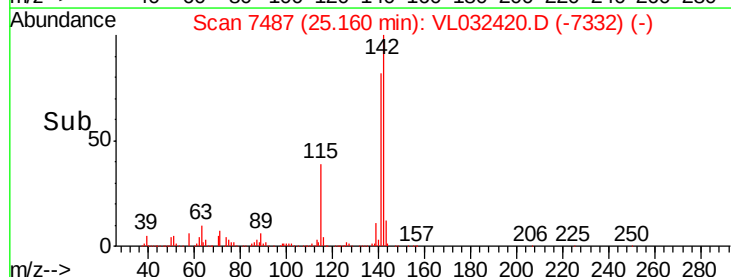
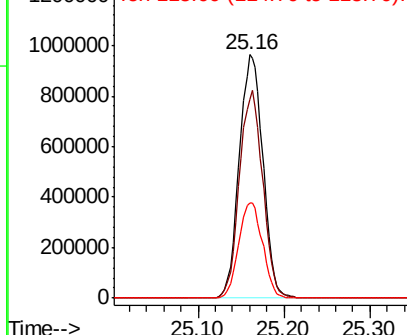
Lab File: VL032420.D

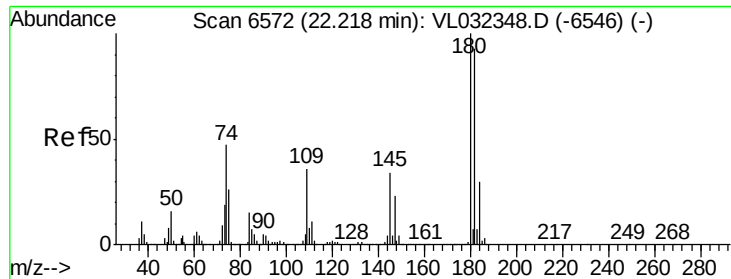
Acq: 21 Aug 2018 12:30

Tgt	Ion:142	Resp:	1840845
Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.7	100.1
115	39.7	31.0	46.6



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





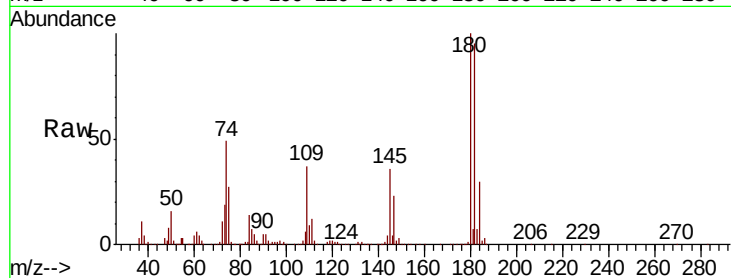
#81
 1,2,4-Trichlorobenzene
 Concen: 10.82 ppbv
 RT: 22.20 min Scan# 6568
 Delta R.T. -0.01 min
 Lab File: VL032420.D
 Acq: 21 Aug 2018 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.1	114.1
184	30.5	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:52 PM



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

