

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032201.D
 Acq On : 3 Jul 2018 8:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:27 PM

Quant Time: Jul 03 13:12:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1417943	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3836032	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3435977m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2551626	9.72	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1414514	7.58	ppbv	97
3) Chlorodifluoromethane	3.07	51	1728555	9.98	ppbv	98
4) Chloromethane	3.23	50	915952	9.90	ppbv	100
5) Vinyl Chloride	3.35	62	860545	9.21	ppbv	99
6) Bromomethane	3.57	94	483078	9.08	ppbv	98
7) Chloroethane	3.66	64	303861	9.20	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	1829498	8.78	ppbv	93
9) Propene	3.09	41	765159	9.48	ppbv	98
10) Heptane	8.34	43	2458386	10.44	ppbv	100
11) Trichlorofluoromethane	4.07	101	1814937	8.98	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1127159	8.38	ppbv	93
13) Ethanol	3.71	45	150726	6.16	ppbv	100
14) Bromoethene	3.85	108	581476	9.08	ppbv	99
15) Acetone	3.96	43	1581920	9.54	ppbv	99
16) 1,3-Butadiene	3.42	39	737525	9.32	ppbv	96
17) tert-Butyl alcohol	4.43	59	375320	3.56	ppbv	98
18) 1,1-Dichloroethene	4.42	96	556346	8.65	ppbv	96
19) Isopropyl Alcohol	4.09	45	1076641	7.82	ppbv #	40
20) Methylene Chloride	4.48	84	491074	8.10	ppbv	98
21) Allyl Chloride	4.55	41	982844	8.68	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	585080	8.70	ppbv	98
23) Vinyl Acetate	5.23	43	2745554	9.13	ppbv	99
24) 1,1-Dichloroethane	5.17	63	1752058	9.10	ppbv	99
25) Ethyl Acetate	5.85	43	3320680	9.68	ppbv	99
26) Hexane	5.86	57	1529752	9.68	ppbv	97
27) Carbon Disulfide	4.69	76	1377173	8.77	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	2290953	8.21	ppbv	100
29) Chloroform	5.93	83	2276298	9.90	ppbv	99
30) Cyclohexane	7.34	84	1581305	10.62	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1484483	9.40	ppbv	95
32) 1,1,1-Trichloroethane	6.71	97	2195966	9.11	ppbv	98
34) 2-Butanone	5.40	43	2140364	8.79	ppbv	99
35) Carbon Tetrachloride	7.22	117	2323975	8.85	ppbv	97
36) Benzene	7.10	78	3445315	9.28	ppbv	98
37) 1,2-Dichloroethane	6.50	62	1772569	9.58	ppbv	97
38) Trichloroethene	8.05	130	1243145	8.57	ppbv	93
39) 1,2-Dichloropropane	7.83	63	1489899	10.17	ppbv	96
40) 1,4-Dioxane	8.04	88	479243	8.35	ppbv #	1
41) Tetrahydrofuran	6.23	42	1394385	9.55	ppbv	99
42) Bromodichloromethane	8.01	83	2868878	9.89	ppbv	97
43) Methyl Methacrylate	8.23	69	1554471	10.10	ppbv	98

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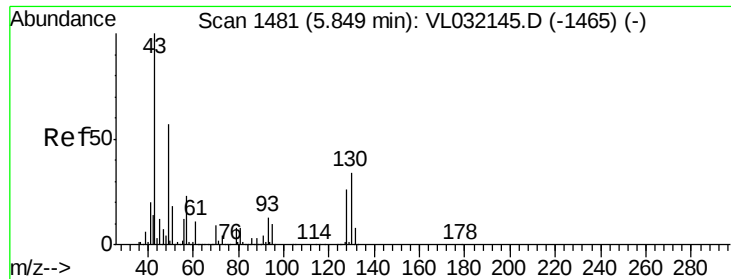
MMDadoda
 7/3/2018 5:17:27 PM

Quant Time: Jul 03 13:12:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	8.08	57	6252953	9.63	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	1873495	9.82	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2119742	9.31	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	1380905	9.07	ppbv	98
48) Dibromochloromethane	10.55	129	2150779	9.13	ppbv	100
49) Bromoform	13.30	173	1522527	7.72	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	3587821	9.00	ppbv	98
51) 2-Hexanone	10.37	43	3098997	9.37	ppbv #	100
52) Tetrachloroethene	11.47	164	1032360	7.65	ppbv	94
53) Toluene	10.04	91	4069342	9.07	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2056144	8.99	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.38	131	1379159	8.99	ppbv	98
57) Chlorobenzene	12.40	112	2694960	9.06	ppbv	97
58) Ethyl Benzene	12.96	91	5076945	9.17	ppbv	94
59) m/p-Xylene	13.25	91	8008168m	18.04	ppbv	
60) o-Xylene	13.95	91	3837707	8.67	ppbv	95
61) Styrene	13.79	104	3035143	8.37	ppbv	95
62) Isopropylbenzene	14.93	105	5330761	7.83	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	2572812	7.51	ppbv	100
64) n-propylbenzene	15.82	120	1402145	7.96	ppbv	84
65) tert-Butylbenzene	17.01	119	4315999	7.22	ppbv	93
66) Benzyl Chloride	17.26	91	2440788	6.61	ppbv	95
67) sec-Butylbenzene	17.56	105	6380521	7.29	ppbv	98
69) p-Isopropyltoluene	17.91	119	4994606	7.11	ppbv	97
70) n-Butylbenzene	18.81	91	5246935	7.15	ppbv	98
71) 2-Chlorotoluene	15.72	91	4125611	7.87	ppbv	94
72) 4-Ethyltoluene	16.10	105	4621075	8.08	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	4263805	7.92	ppbv	97
74) 1,2,4-Trimethylbenzene	17.03	105	4094672	7.53	ppbv	92
75) 1,3-Dichlorobenzene	17.27	146	2190377	7.08	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	2211223	7.05	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2083094	6.74	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1125109	10.46	ppbv	98
79) Naphthalene	22.53	128	3325307	6.73	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2025245	11.36	ppbv	97
81) 1,2,4-Trichlorobenzene	22.25	180	1630905	7.31	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1417943

Ion Ratio Lower Upper

49 100

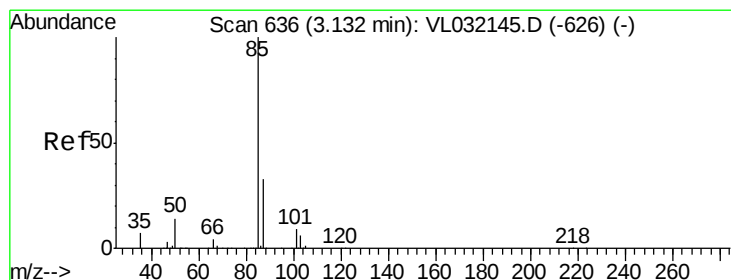
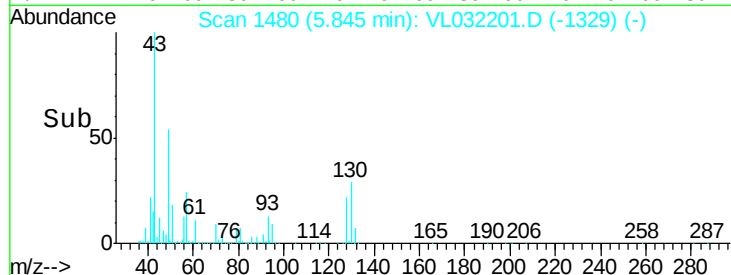
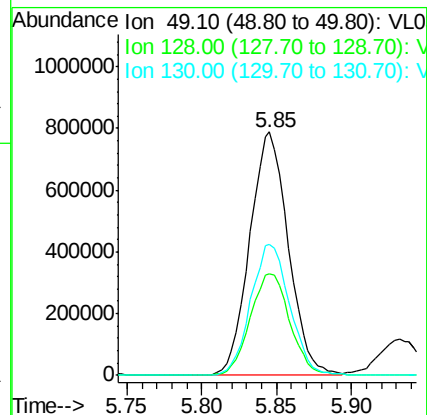
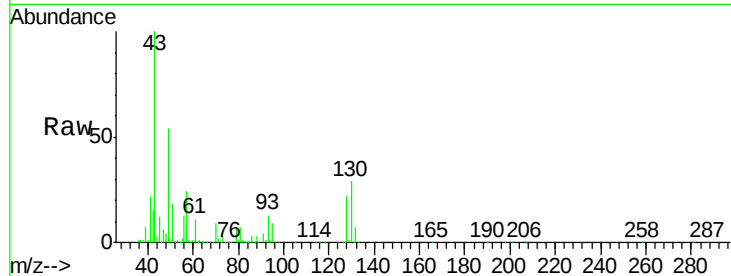
128 43.1 23.4 70.0

130 54.6 30.3 90.9

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.58 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032201.D

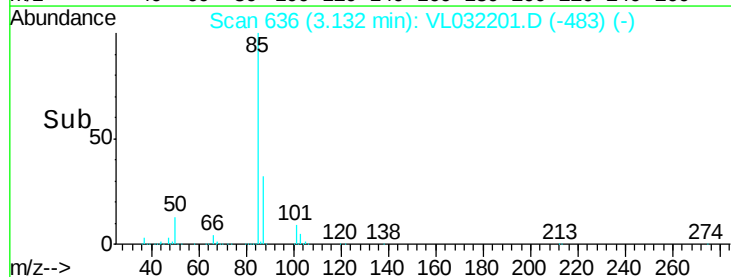
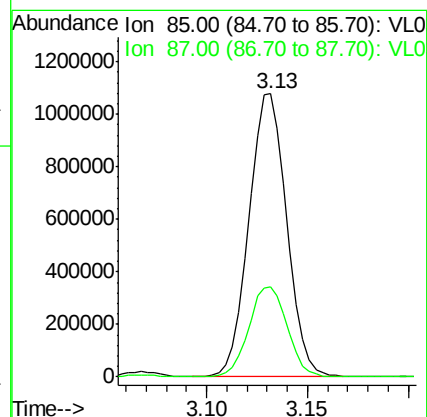
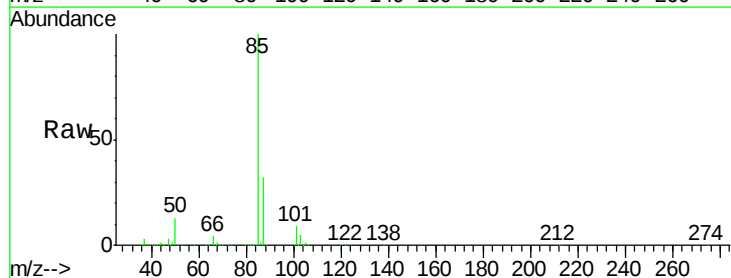
Acq: 3 Jul 2018 8:33

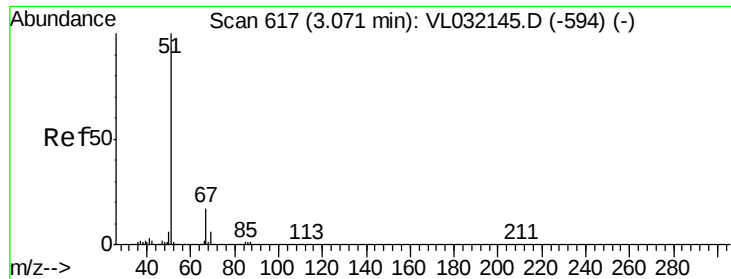
Tgt Ion: 85 Resp: 1414514

Ion Ratio Lower Upper

85 100

87 31.7 26.7 40.1





#3

Chlorodifluoromethane

Concen: 9.98 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1728555

Ion Ratio Lower Upper

51 100

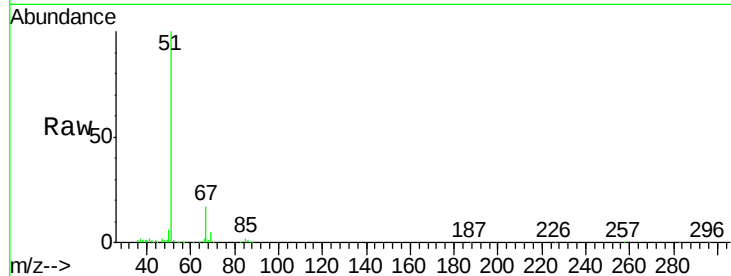
67 17.6 13.2 19.8

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

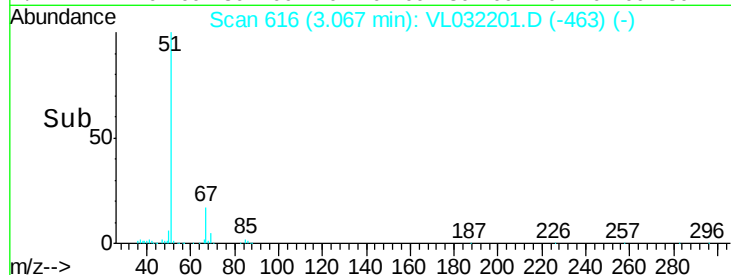
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1000000

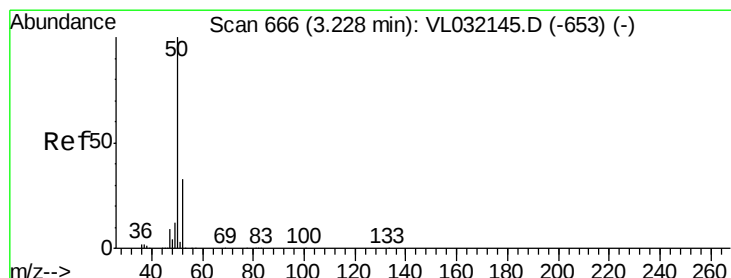
500000

0

Time-->



Time-->



#4

Chloromethane

Concen: 9.90 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032201.D

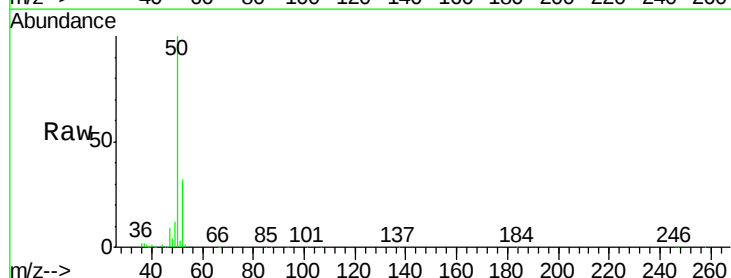
Acq: 3 Jul 2018 8:33

Tgt Ion: 50 Resp: 915952

Ion Ratio Lower Upper

50 100

52 32.5 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

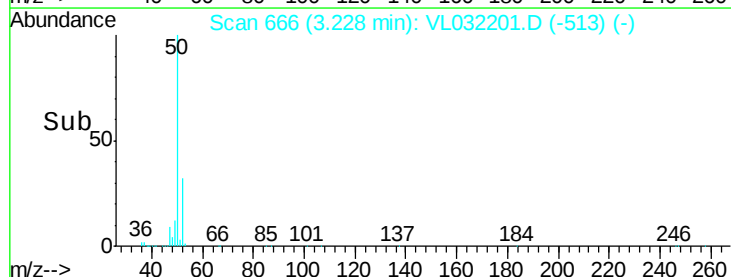
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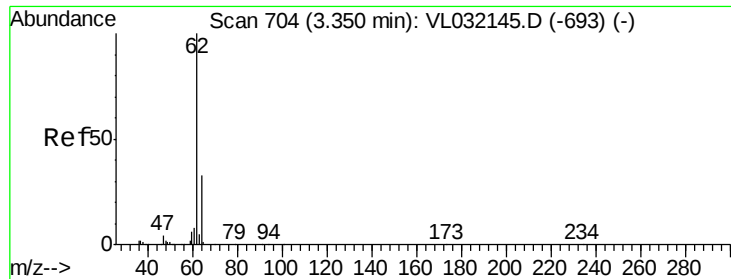
400000

200000

0

Time-->





#5

Vinyl Chloride

Concen: 9.21 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 860545

Ion Ratio Lower Upper

62 100

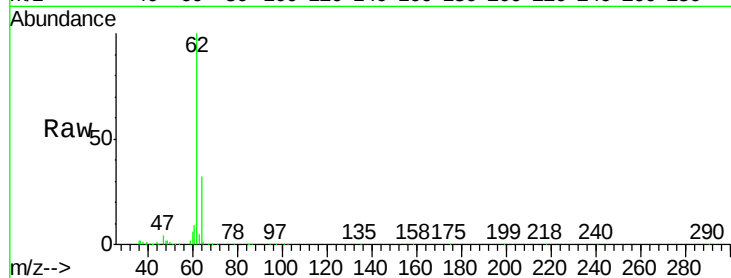
64 32.1 26.1 39.1

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

3.35

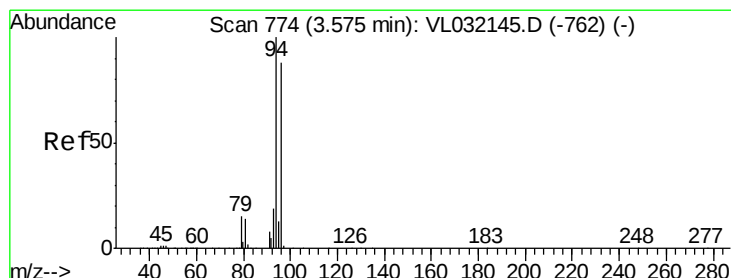
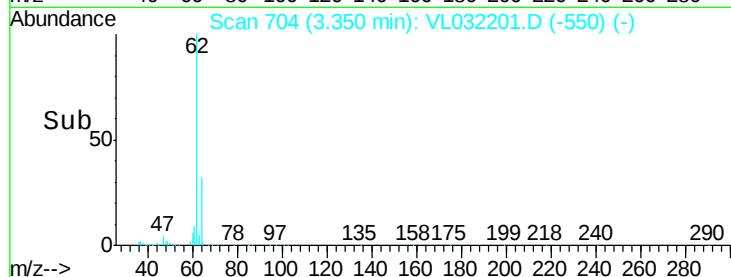
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 9.08 ppbv

RT: 3.57 min Scan# 773

Delta R.T. -0.01 min

Lab File: VL032201.D

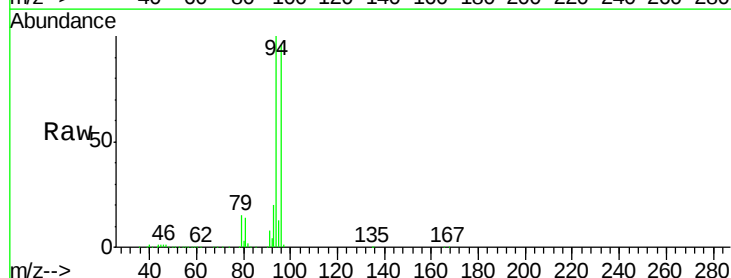
Acq: 3 Jul 2018 8:33

Tgt Ion: 94 Resp: 483078

Ion Ratio Lower Upper

94 100

96 95.7 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.57

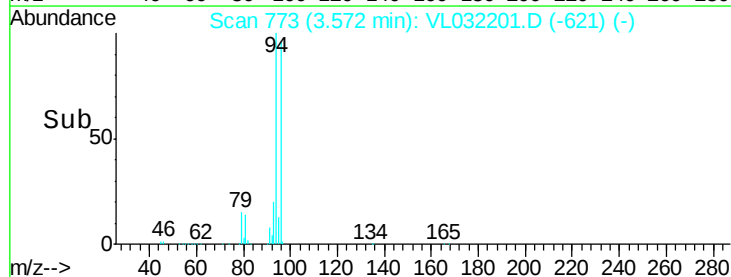
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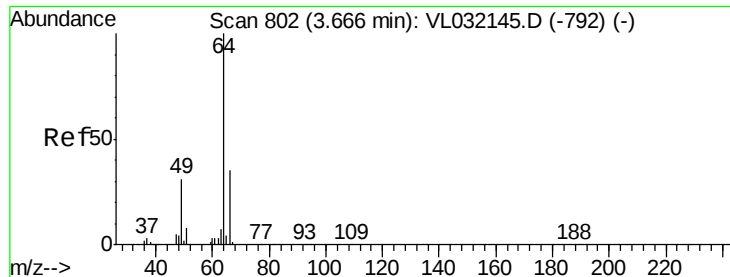
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.20 ppbv

RT: 3.66 min Scan# 801

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 303861

Ion Ratio Lower Upper

64 100

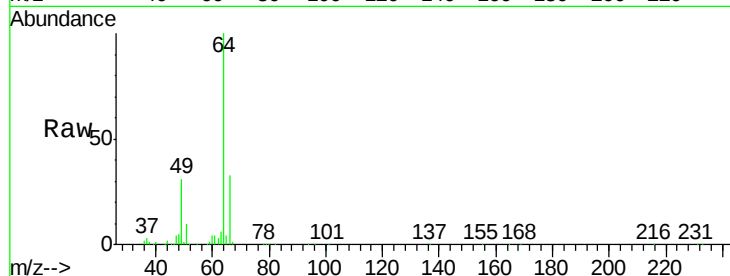
66 33.0 26.9 40.3

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

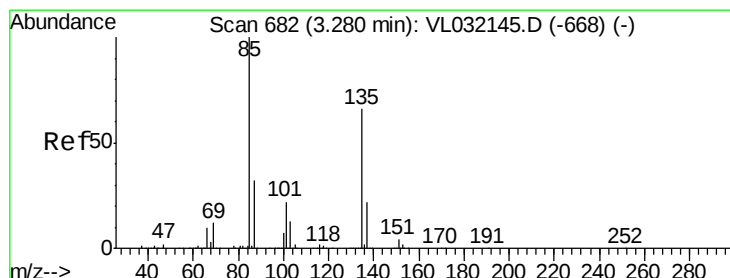
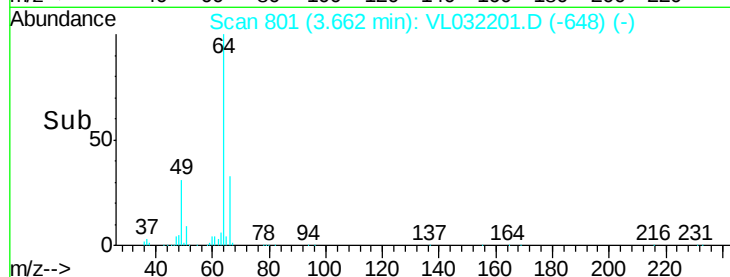
100000

50000

0

3.60 3.65 3.70 3.75

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.78 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032201.D

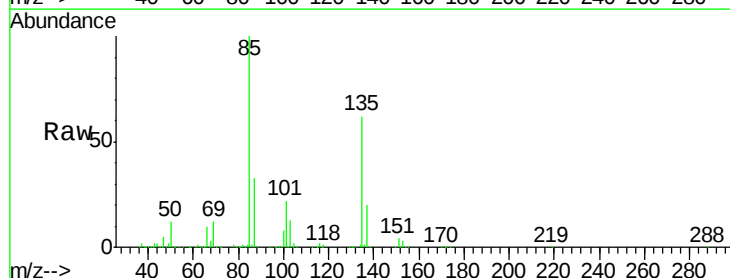
Acq: 3 Jul 2018 8:33

Tgt Ion: 85 Resp: 1829498

Ion Ratio Lower Upper

85 100

135 62.8 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

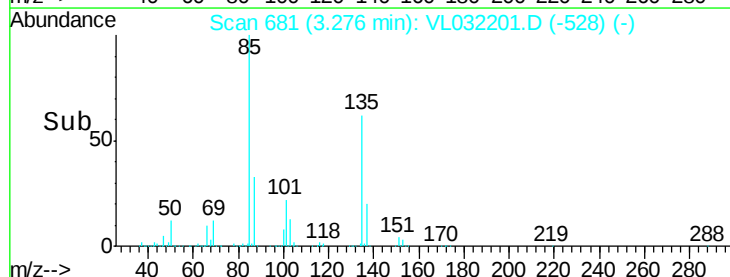
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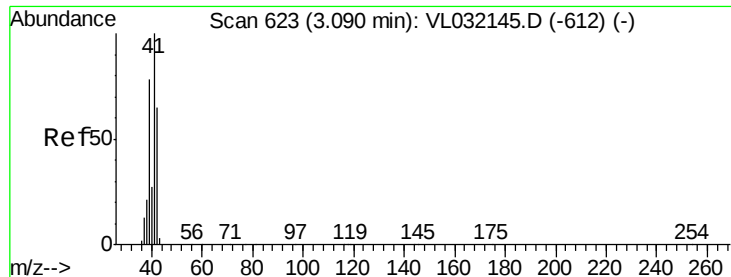
500000

0

3.20 3.25 3.30

Time-->





#9

Propene

Concen: 9.48 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 765159

Ion Ratio Lower Upper

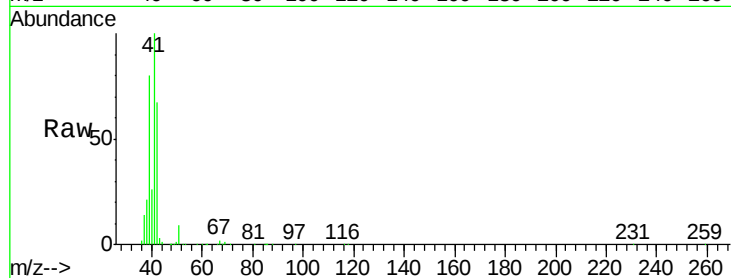
41 100

42 69.0 56.2 84.4

Manual Integrations
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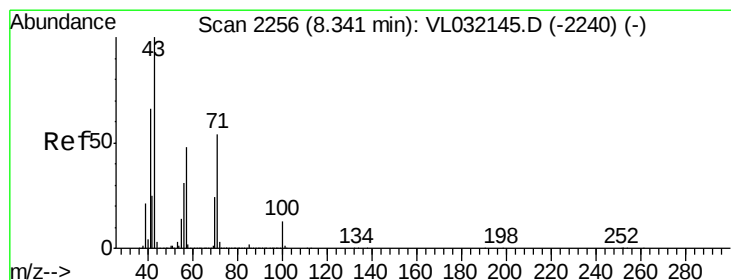
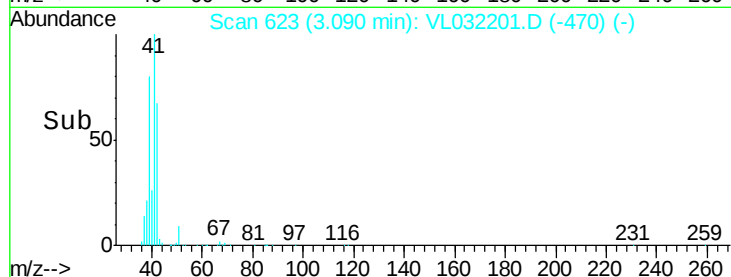
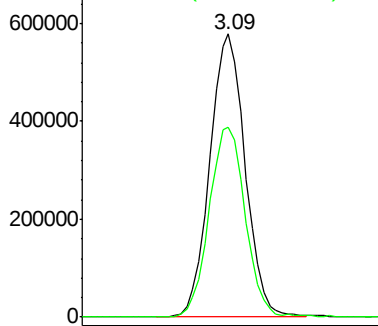
MMDadoda

7/3/2018 5:17:27 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.44 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032201.D

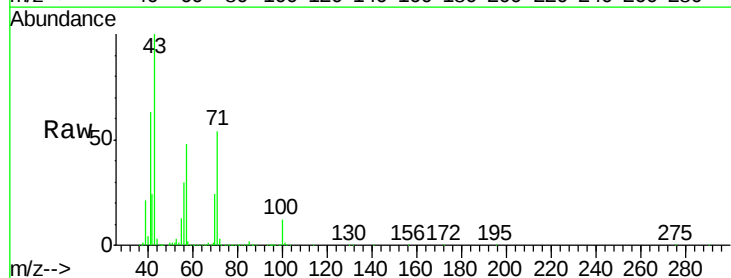
Acq: 3 Jul 2018 8:33

Tgt Ion: 43 Resp: 2458386

Ion Ratio Lower Upper

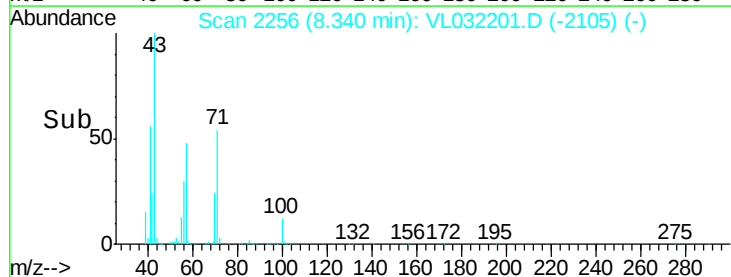
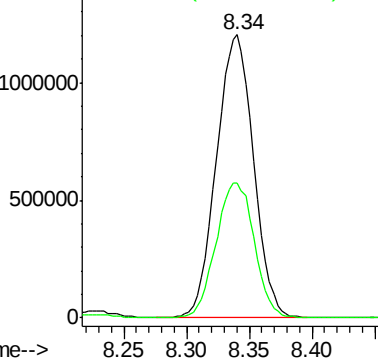
43 100

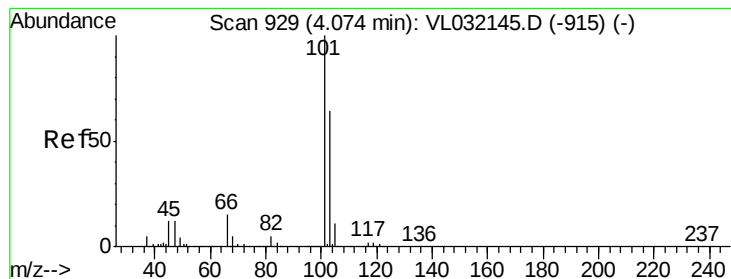
57 49.6 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.98 ppbv

RT: 4.07 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1814937

Ion Ratio Lower Upper

101 100

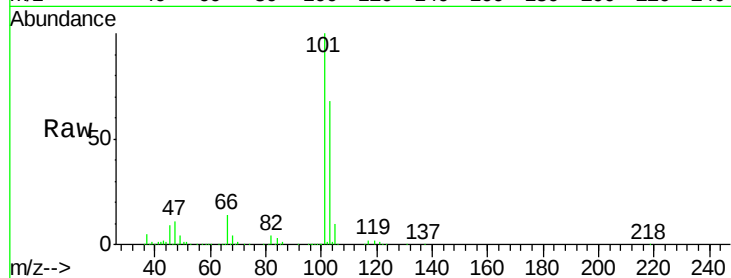
103 67.8 51.4 77.0

Manual Integrations

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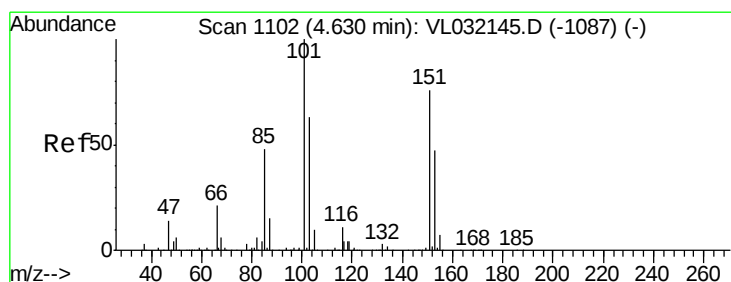
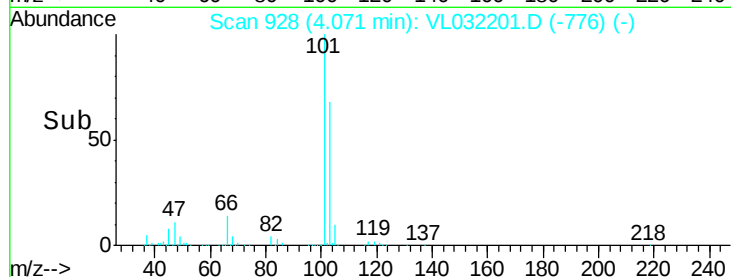
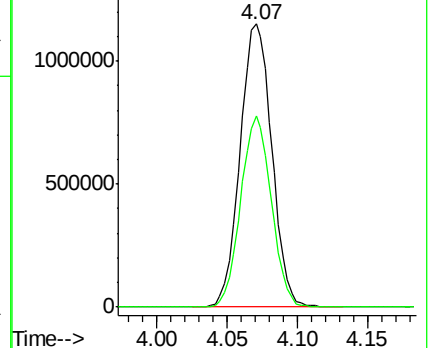
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.38 ppbv

RT: 4.62 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VL032201.D

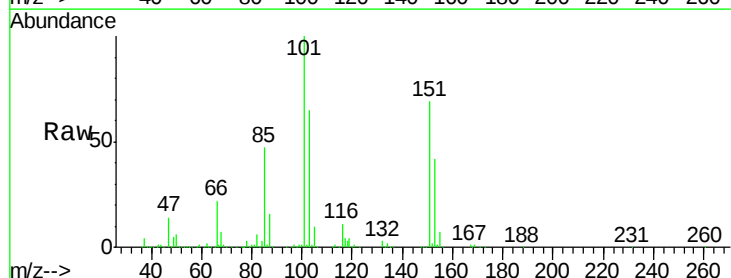
Acq: 3 Jul 2018 8:33

Tgt Ion:101 Resp: 1127159

Ion Ratio Lower Upper

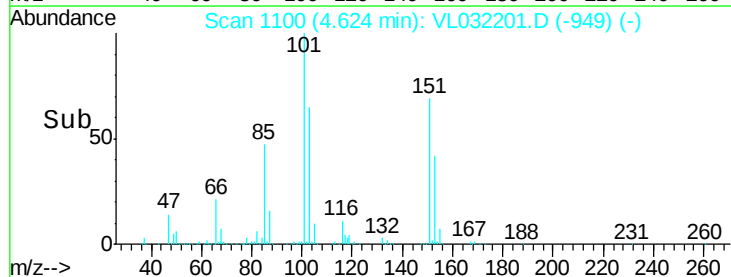
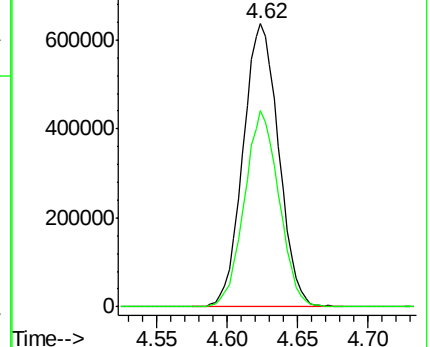
101 100

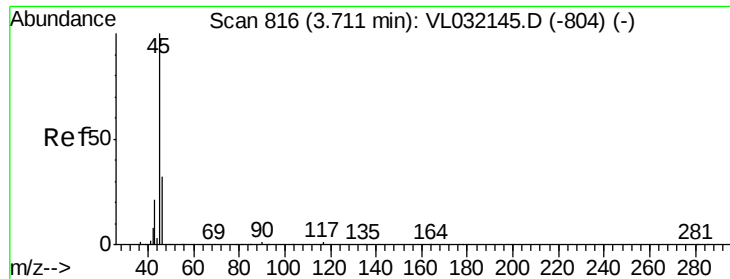
151 67.4 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





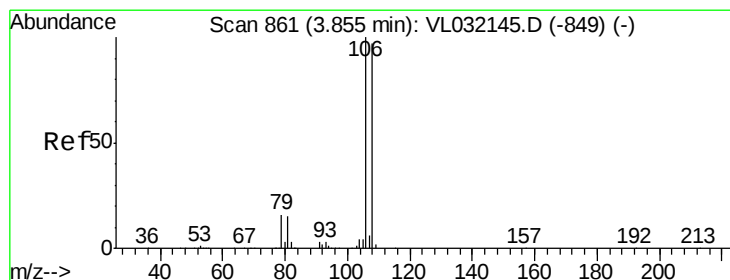
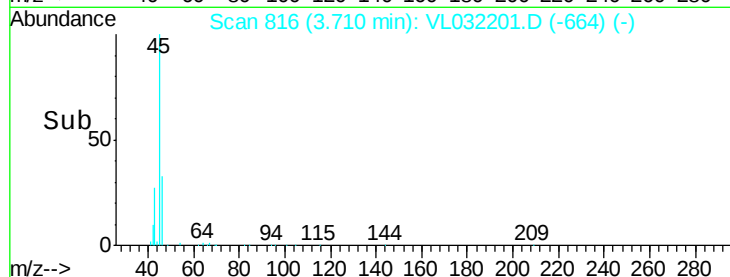
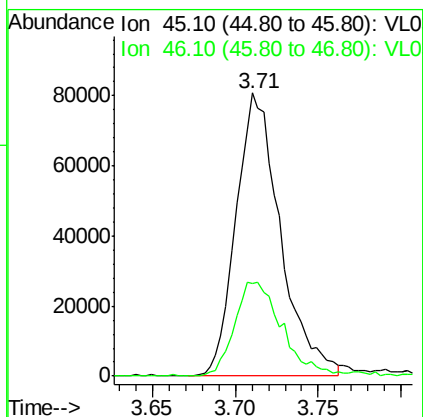
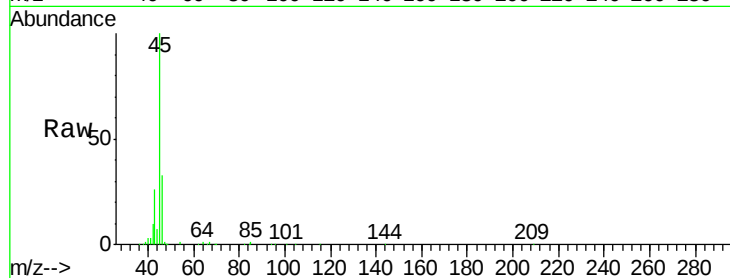
#13
Ethanol
Concen: 6.16 ppbv
RT: 3.71 min Scan# 816
Delta R.T. -0.01 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
150726	100	36.8		14.6	58.4

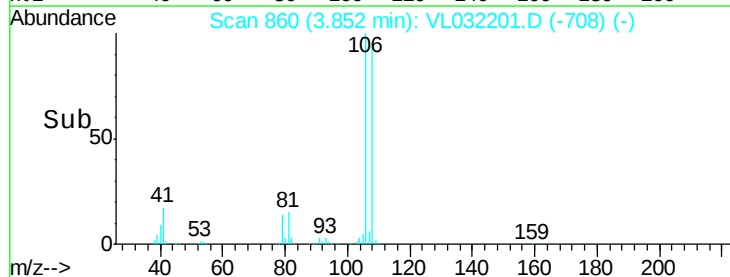
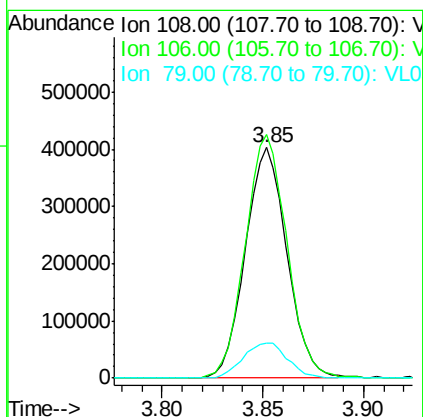
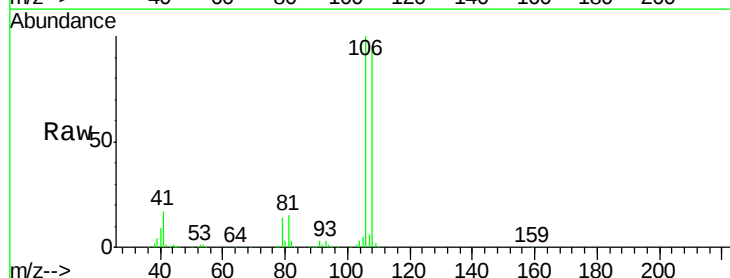
Manual Integrations
APPROVED

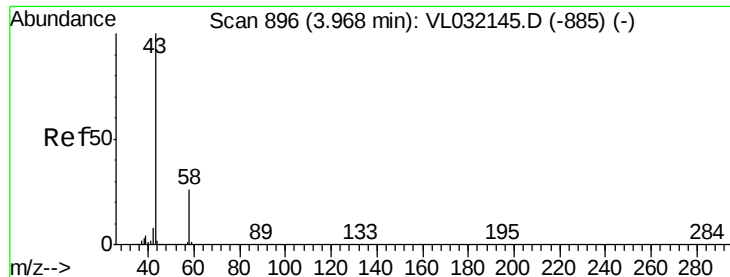
MMDadoda
7/3/2018 5:17:27 PM



#14
Bromoethene
Concen: 9.08 ppbv
RT: 3.85 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	108	106	79	Ratio	Lower	Upper
581476	100	106.7	16.6		86.3	129.5
					12.7	19.1





#15

Acetone

Concen: 9.54 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1581920

Ion Ratio Lower Upper

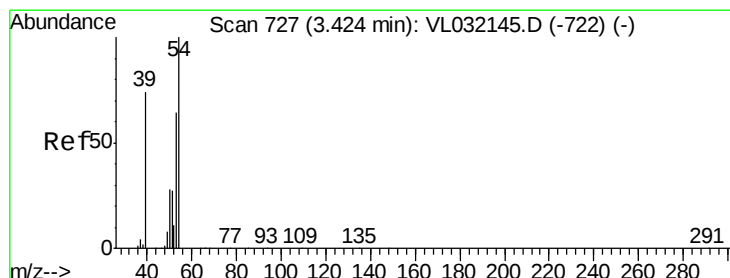
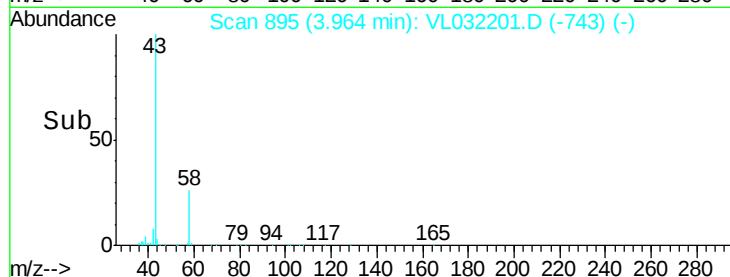
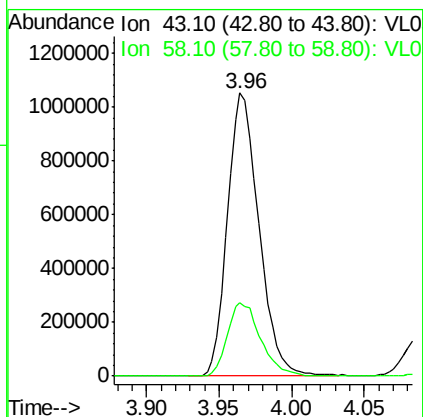
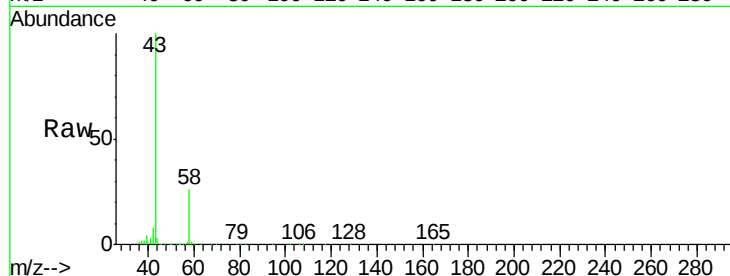
43 100

58 27.4 21.4 32.0

Manual Integrations
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#16

1,3-Butadiene

Concen: 9.32 ppbv

RT: 3.42 min Scan# 726

Delta R.T. -0.01 min

Lab File: VL032201.D

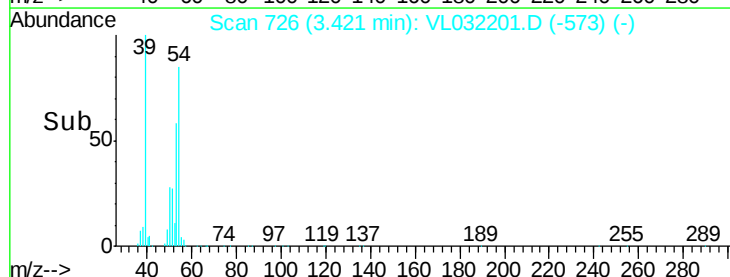
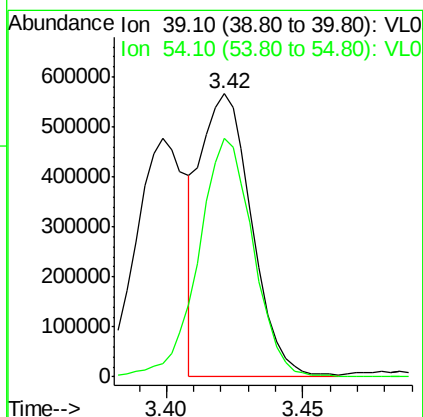
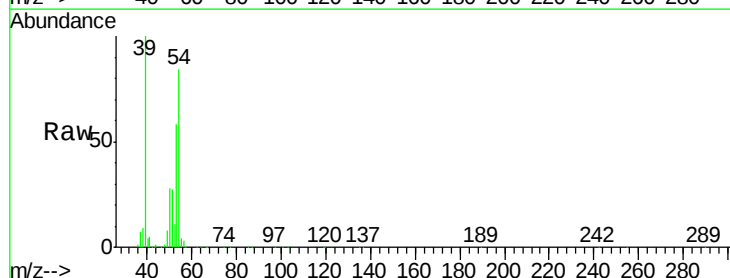
Acq: 3 Jul 2018 8:33

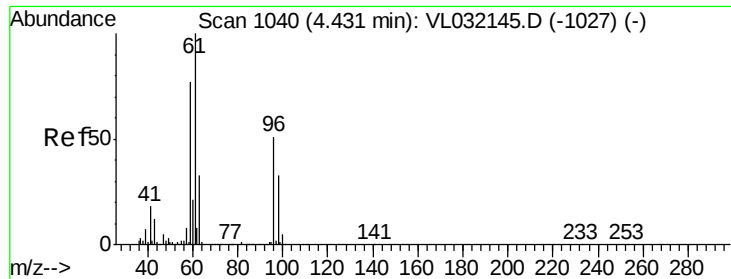
Tgt Ion: 39 Resp: 737525

Ion Ratio Lower Upper

39 100

54 90.5 75.8 113.6





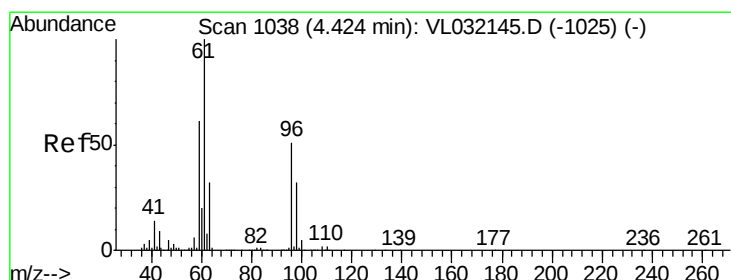
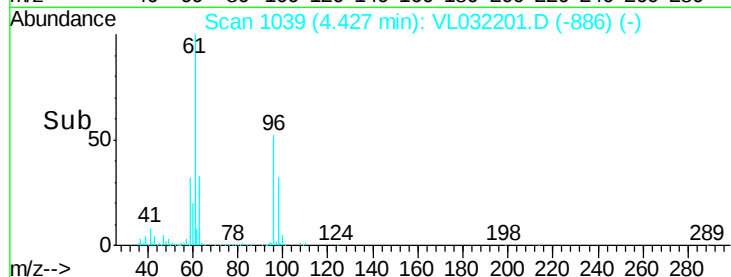
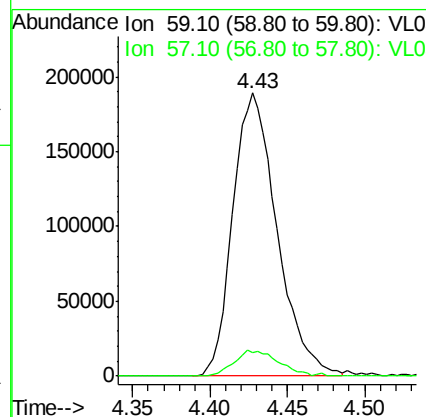
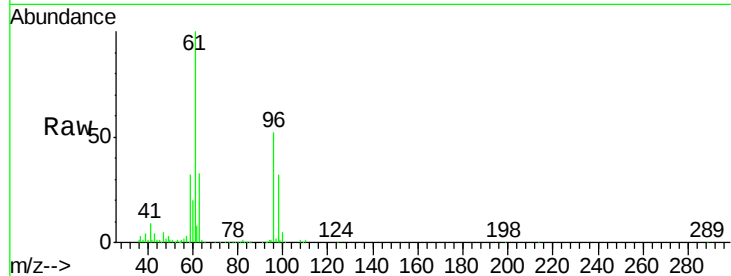
#17
 tert-Butyl alcohol
 Concen: 3.56 ppbv
 RT: 4.43 min Scan# 1039
 Delta R.T. -0.01 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 375320
 Ion Ratio Lower Upper
 59 100
 57 9.4 8.2 12.2

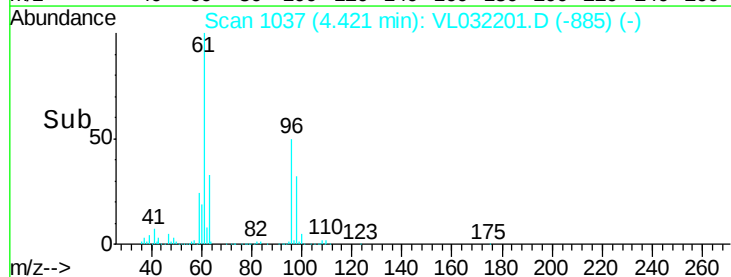
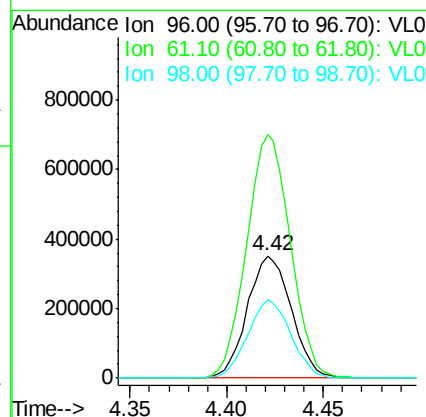
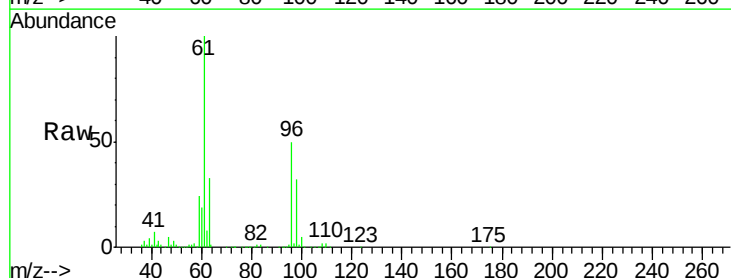
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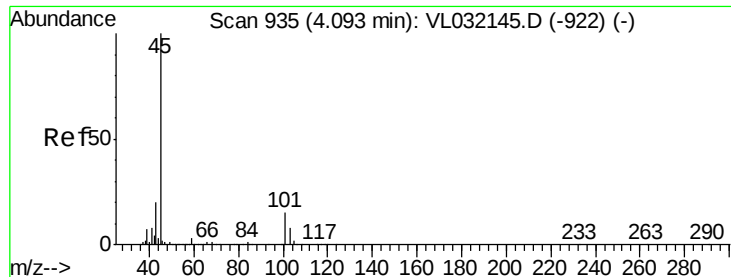
MMDadoda
 7/3/2018 5:17:27 PM



#18
 1,1-Dichloroethene
 Concen: 8.65 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion: 96 Resp: 556346
 Ion Ratio Lower Upper
 96 100
 61 199.2 154.1 231.1
 98 64.4 50.3 75.5





#19

Isopropyl Alcohol

Concen: 7.82 ppbv

RT: 4.09 min Scan# 934

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1076641

Ion Ratio Lower Upper

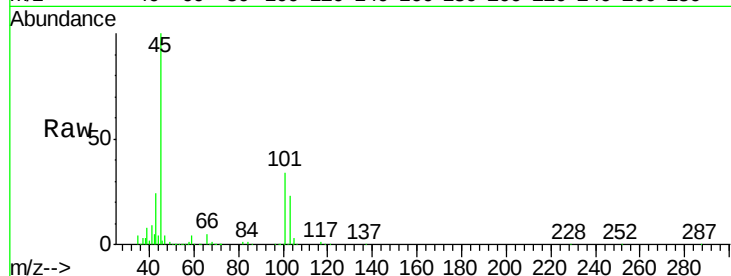
45 100

58 1.4 29.4 44.0#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.09

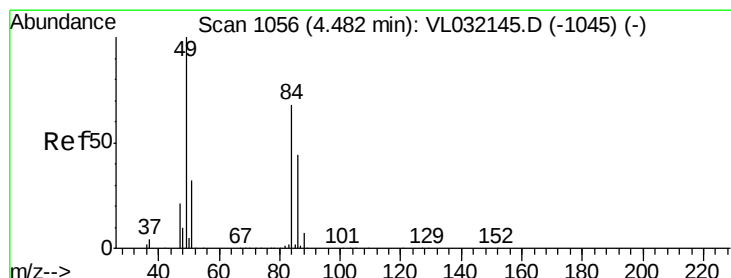
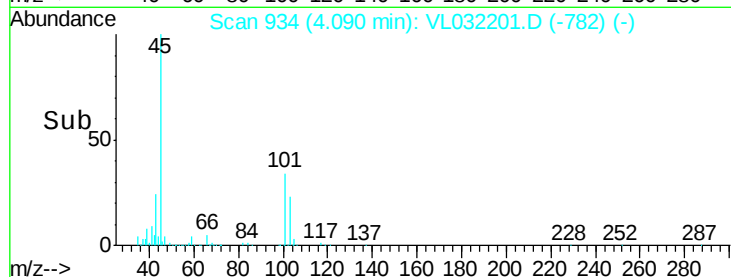
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.10 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Tgt Ion: 84 Resp: 491074

Ion Ratio Lower Upper

84 100

49 151.4 119.6 179.4

51 46.8 36.3 54.5

86 60.1 49.7 74.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.48

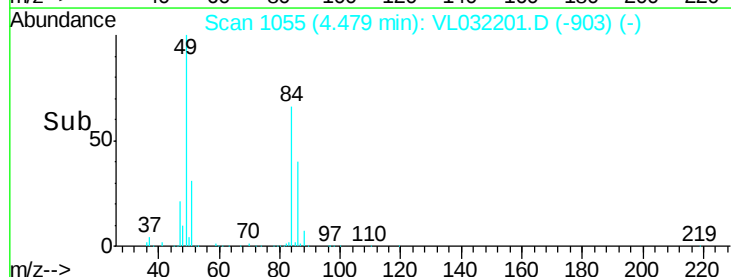
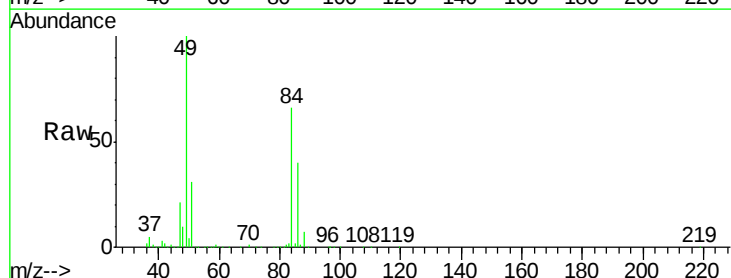
600000

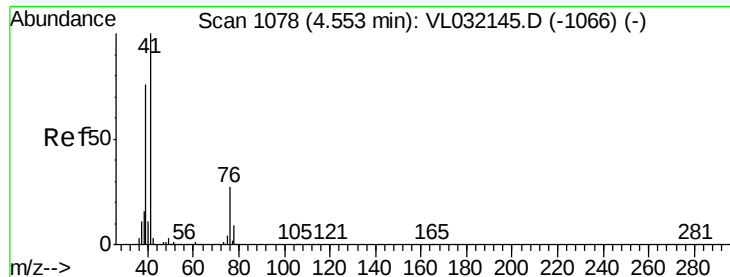
400000

200000

0

Time-->





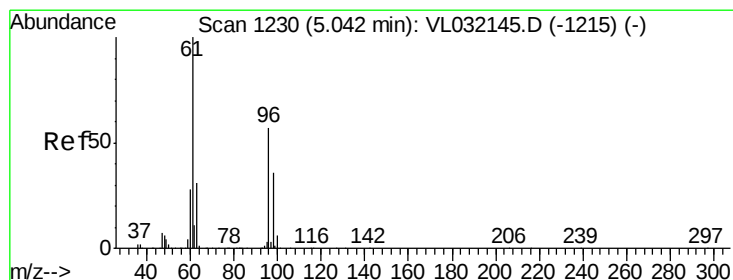
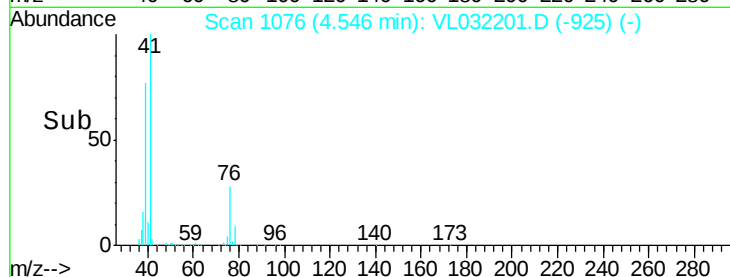
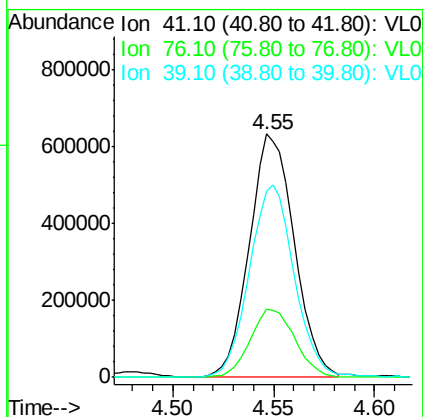
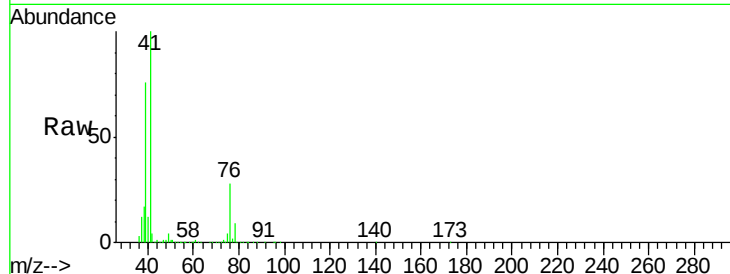
#21
Allvl Chloride
Concen: 8.68 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.3	22.5	33.7
39	79.1	60.5	90.7

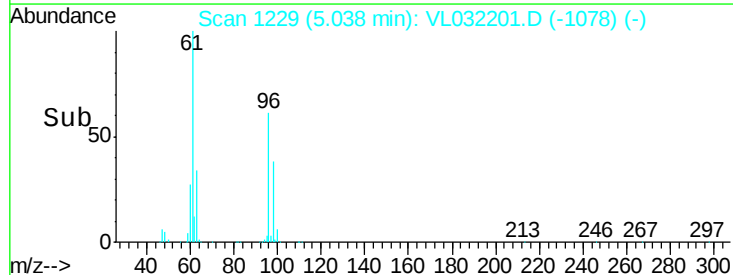
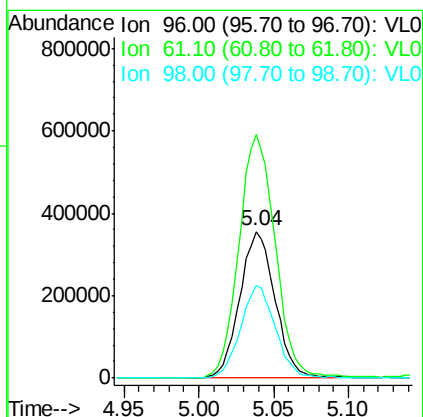
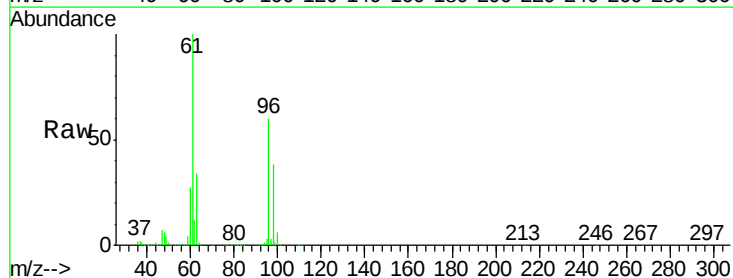
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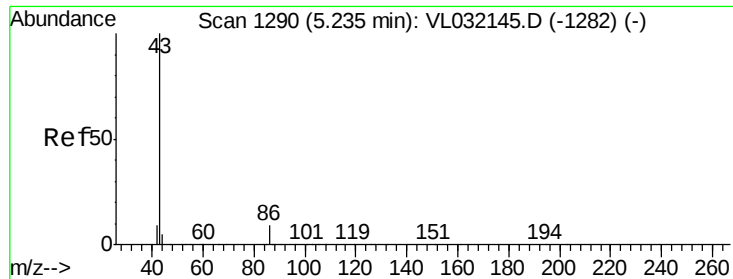
MMDadoda
7/3/2018 5:17:27 PM



#22
trans-1,2-Dichloroethene
Concen: 8.70 ppbv
RT: 5.04 min Scan# 1229
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.7	135.2	202.8
98	62.7	49.7	74.5





#23

Vinyl Acetate

Concen: 9.13 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L

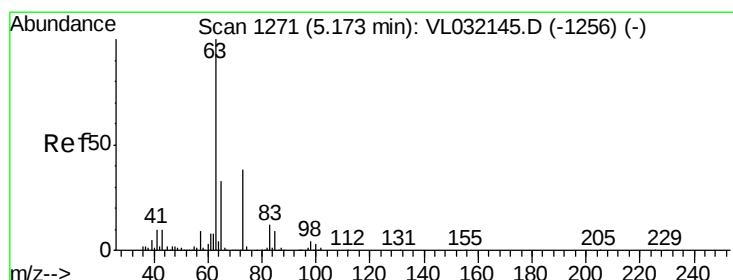
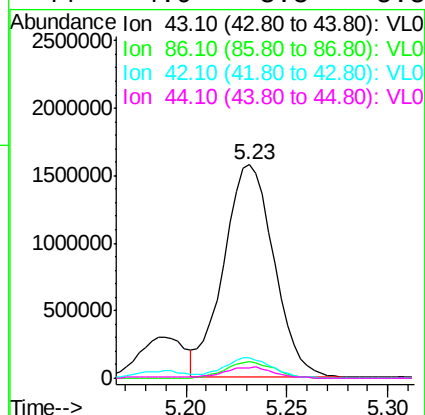
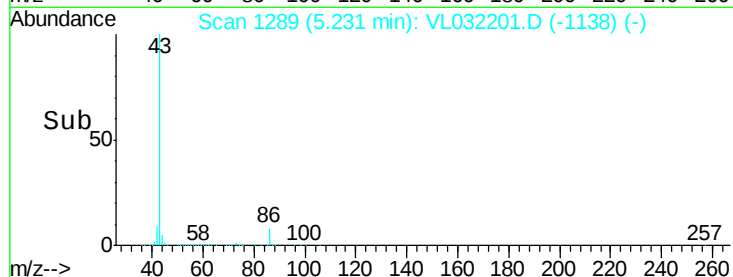
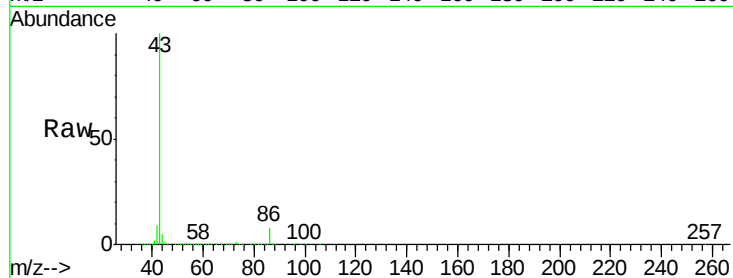
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2745554

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.4
42	9.3	6.9	10.3
44	4.9	3.8	5.8

Manual Integrations
APPROVED

MMDadoda
7/3/2018 5:17:27 PM



#24

1,1-Dichloroethane

Concen: 9.10 ppbv

RT: 5.17 min Scan# 1269

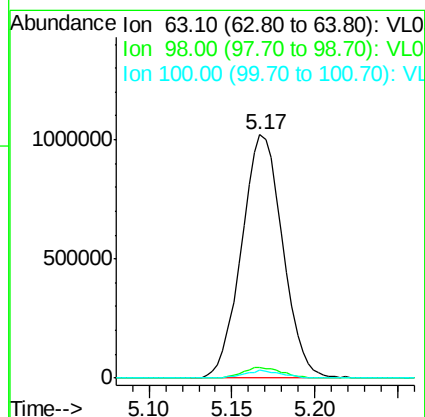
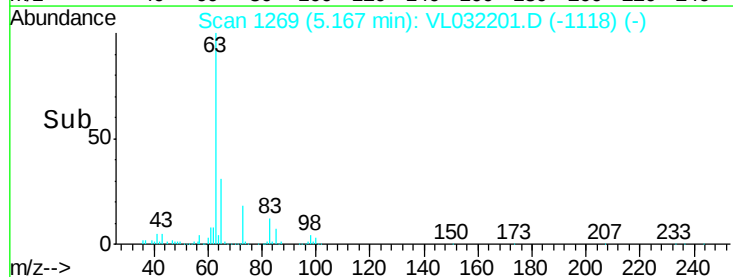
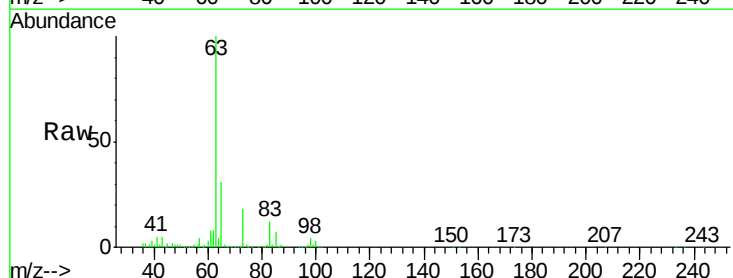
Delta R.T. -0.02 min

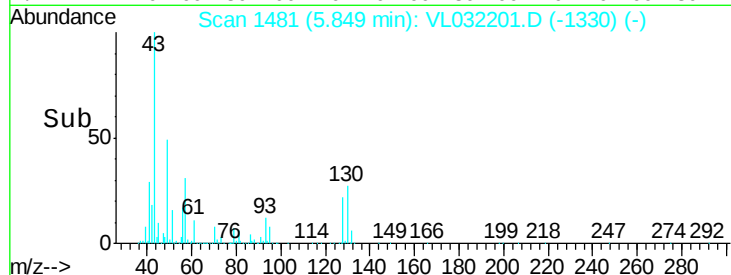
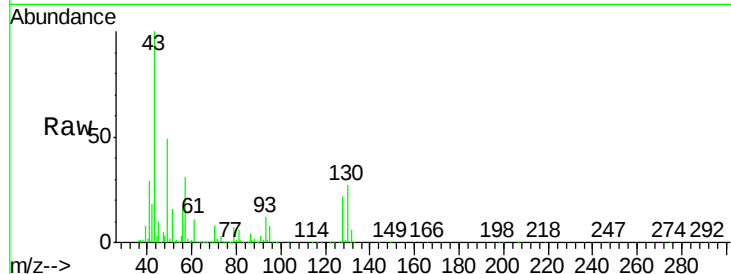
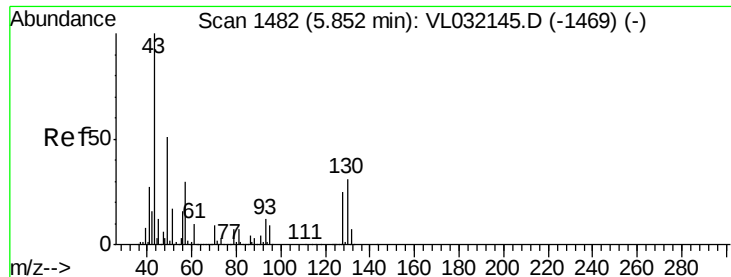
Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Tgt Ion: 63 Resp: 1752058

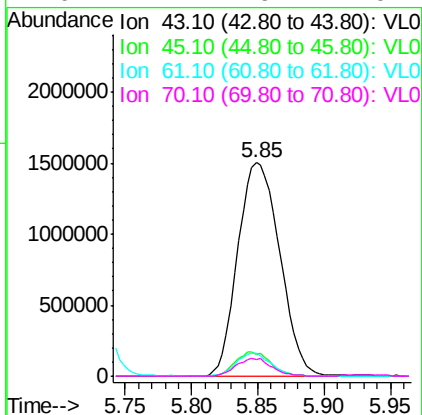
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.4	7.2
100	3.1	1.7	5.0





#25
Ethyl Acetate
Concen: 9.68 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

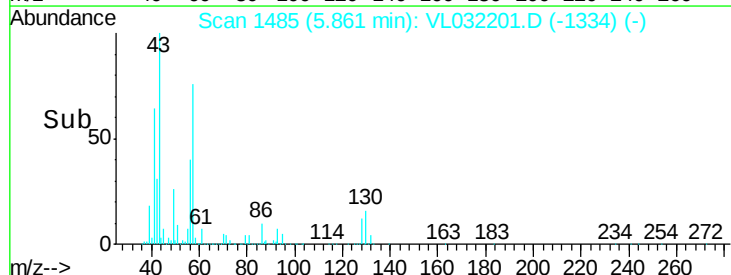
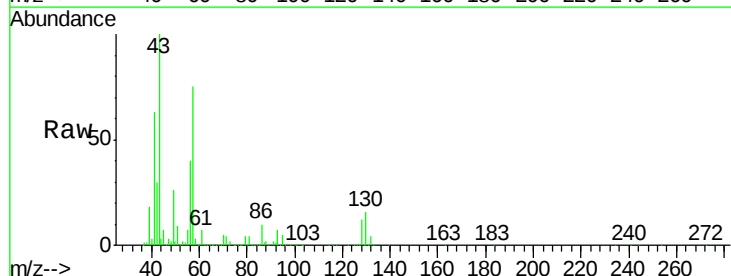
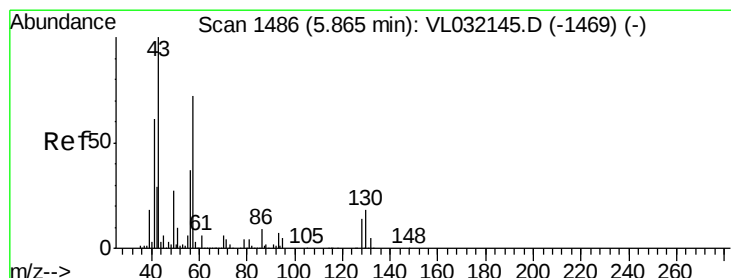
Tot Ion	43	Resp	3320680
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	9.4	7.4	11.0
70	7.2	6.1	9.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

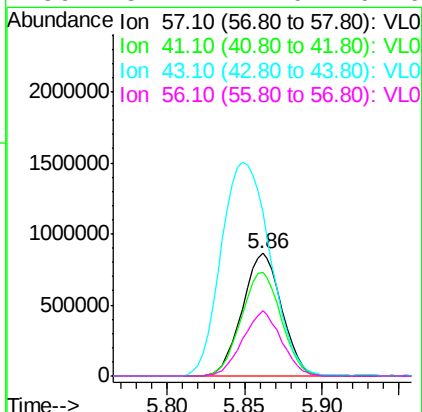
Manual Integrations
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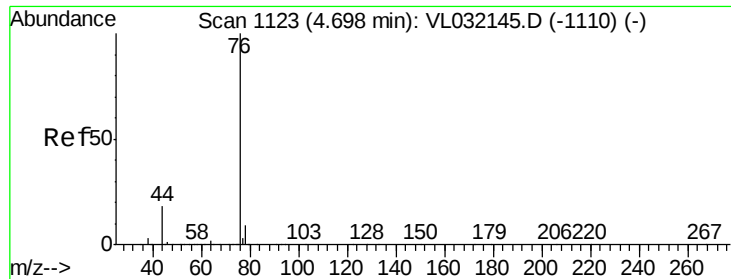
MMDadoda
7/3/2018 5:17:27 PM



#26
Hexane
Concen: 9.68 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	57	Resp	1529752
Ion	Ratio	Lower	Upper
57	100		
41	86.3	68.6	103.0
43	218.7	168.6	252.8
56	52.2	41.0	61.6





#27

Carbon Disulfide

Concen: 8.77 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1377173

Ion Ratio Lower Upper

76 100

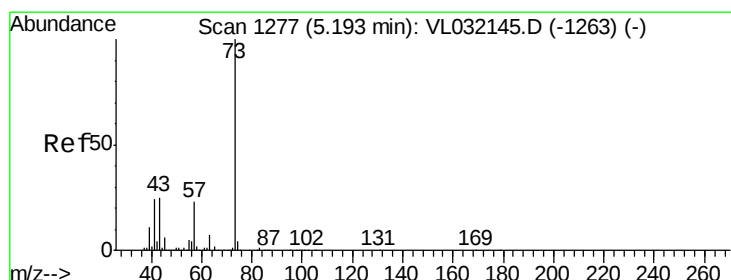
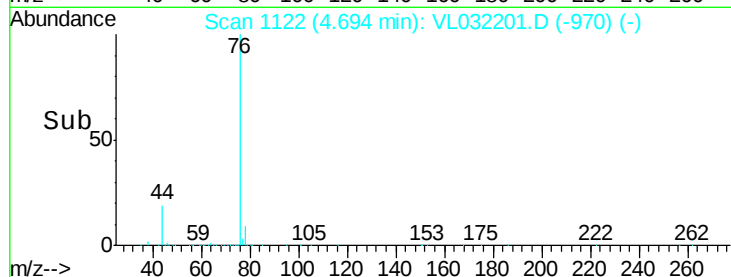
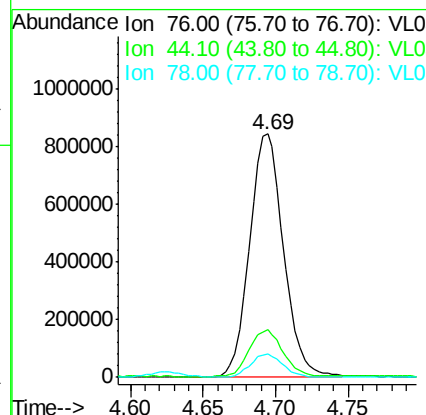
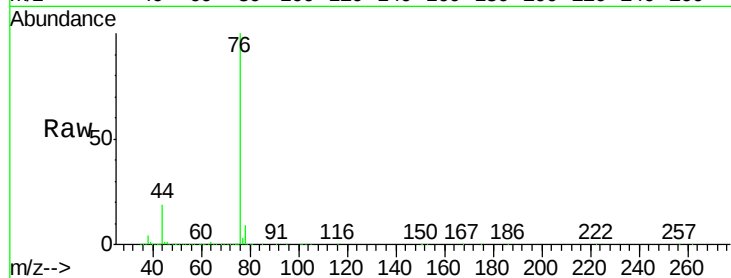
44 19.5 15.1 22.7

78 9.1 7.2 10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 8.21 ppbv

RT: 5.19 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL032201.D

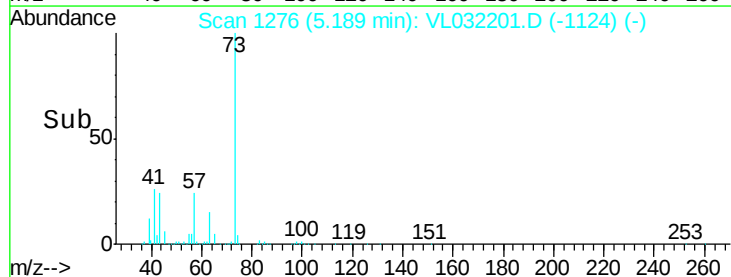
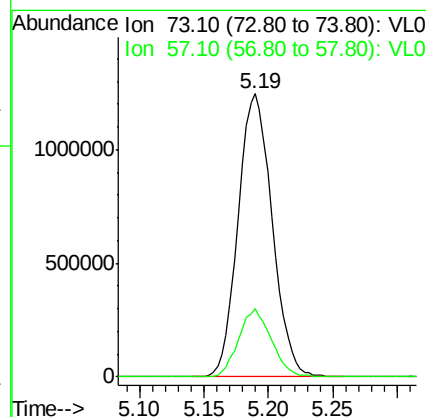
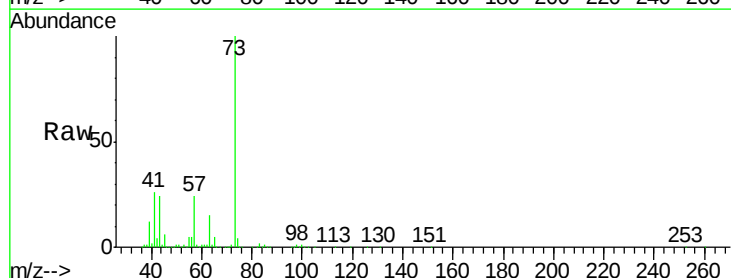
Acq: 3 Jul 2018 8:33

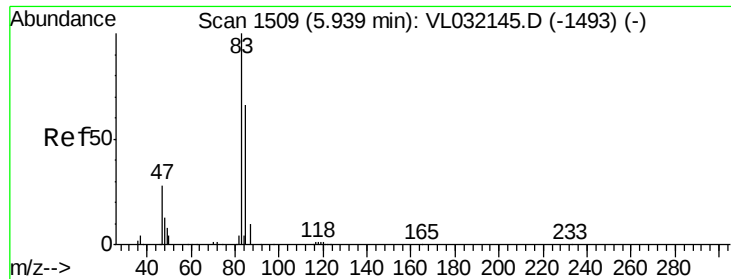
Tgt Ion: 73 Resp: 2290953

Ion Ratio Lower Upper

73 100

57 23.2 18.6 27.8





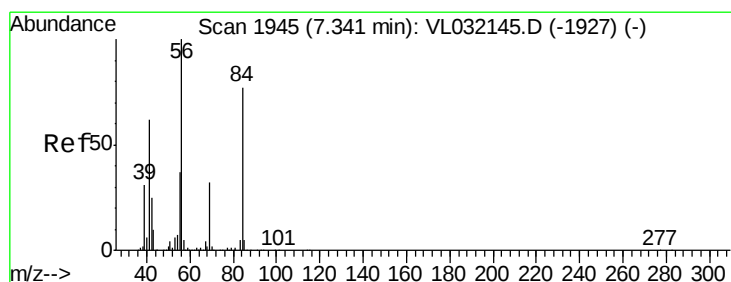
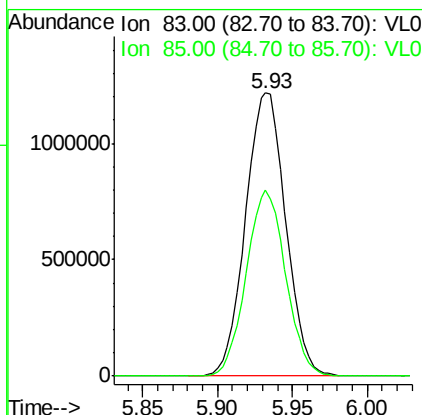
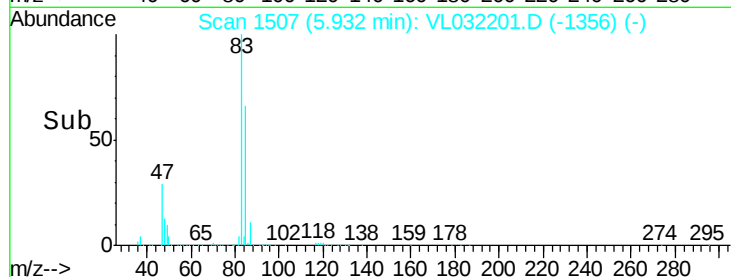
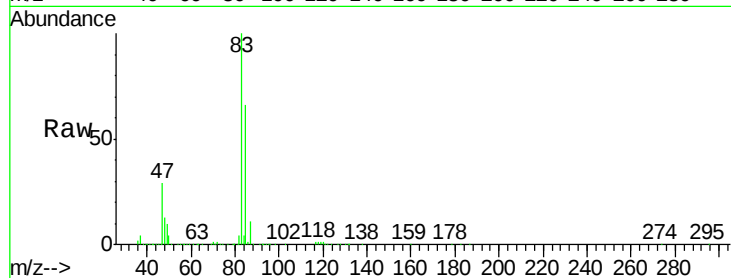
#29
Chloroform
Concen: 9.90 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2276298
Ion Ratio Lower Upper
83 100
85 65.4 51.6 77.4

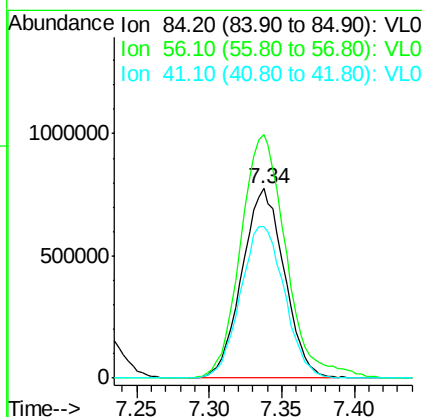
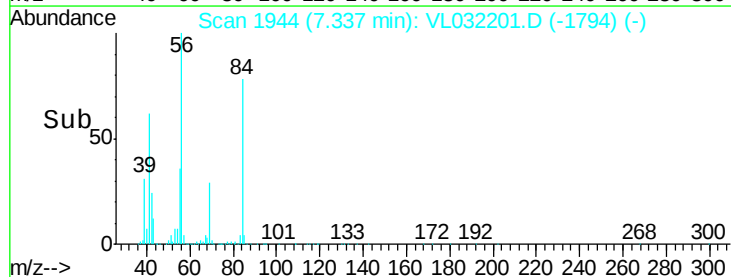
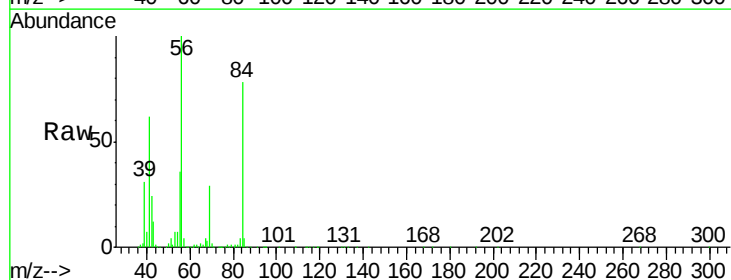
Manual Integrations
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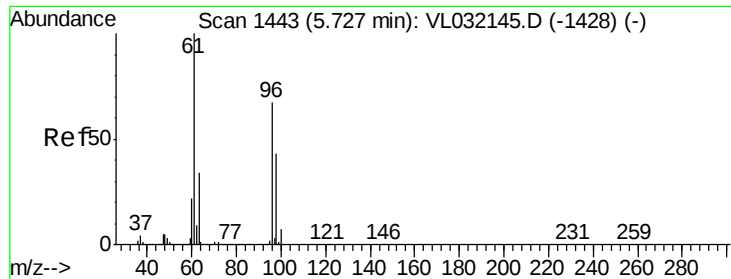
MMDadoda
7/3/2018 5:17:27 PM



#30
Cyclohexane
Concen: 10.62 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion: 84 Resp: 1581305
Ion Ratio Lower Upper
84 100
56 137.0 109.1 163.7
41 82.8 64.6 96.8





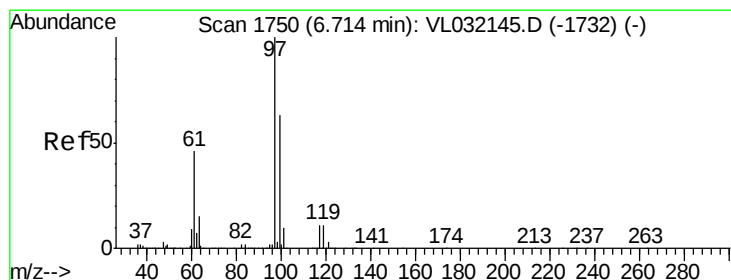
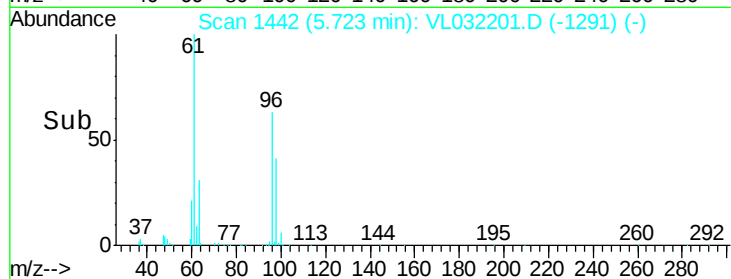
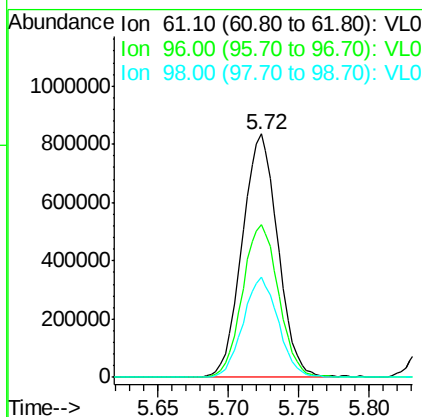
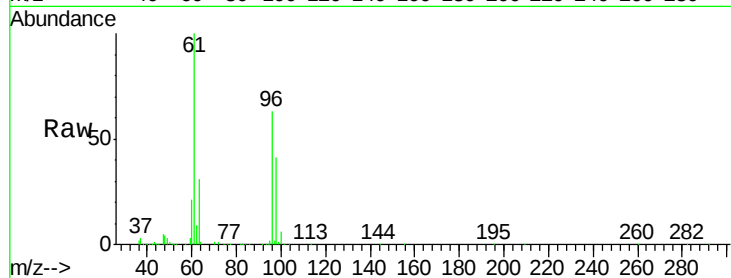
#31
 cis-1,2-Dichloroethene
 Concen: 9.40 ppbv
 RT: 5.72 min Scan# 1442
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.7	54.2	81.4
98	41.2	34.6	52.0

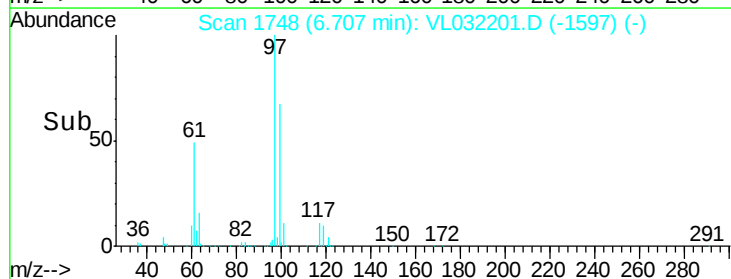
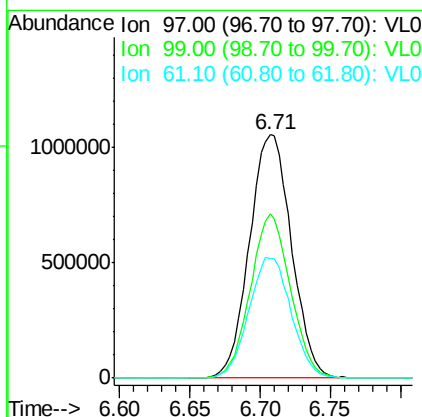
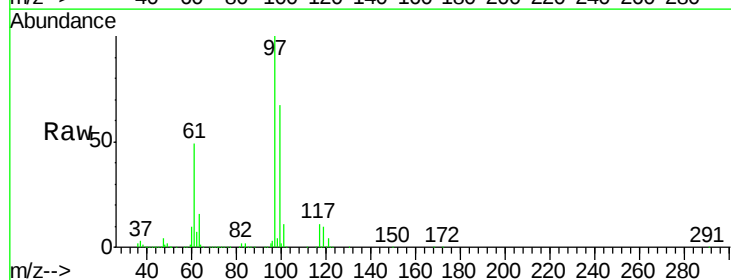
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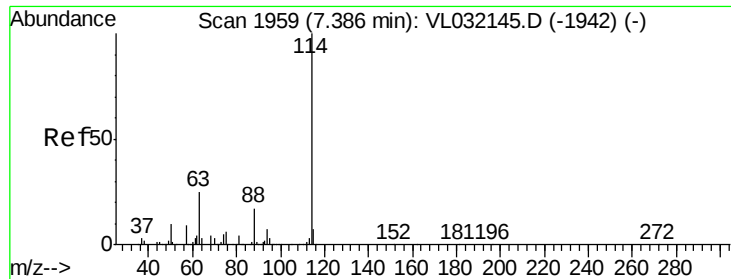
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#32
 1,1,1-Trichloroethane
 Concen: 9.11 ppbv
 RT: 6.71 min Scan# 1748
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.3	76.9
61	50.0	38.4	57.6





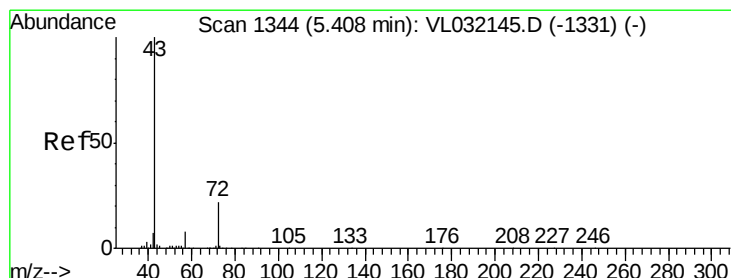
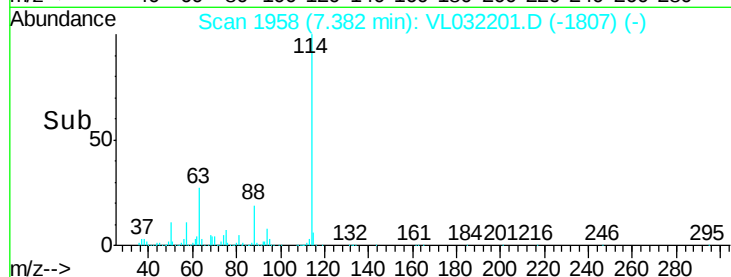
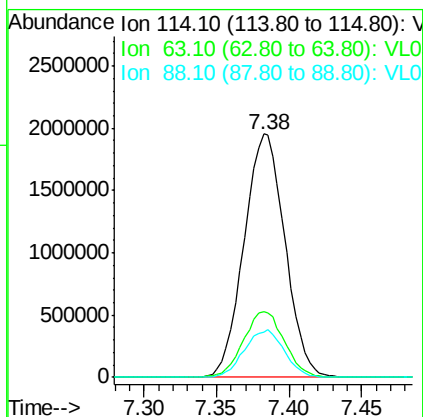
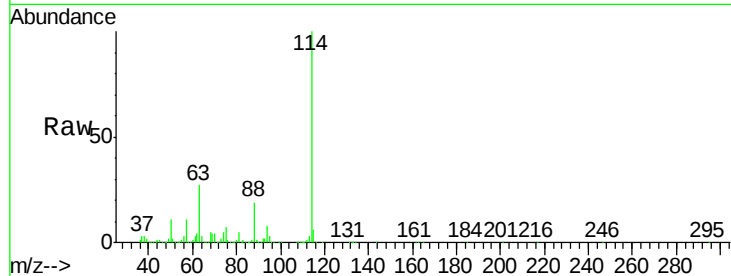
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	19.1	28.7
88	19.3	13.9	20.9

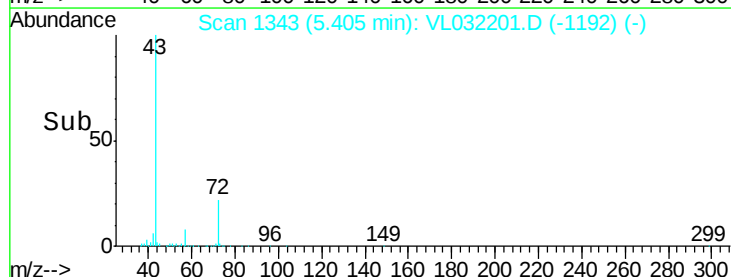
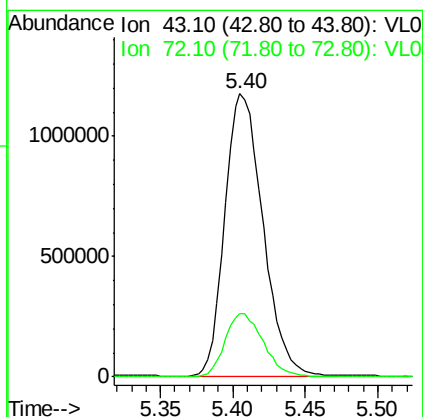
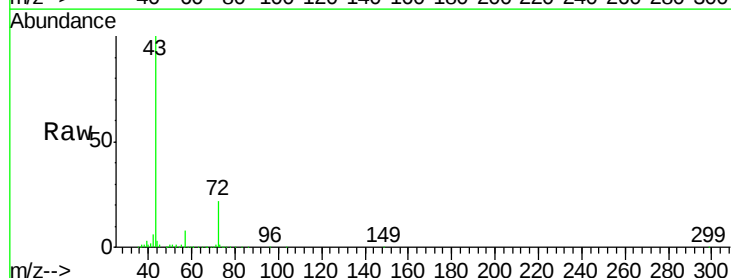
Manual Integrations
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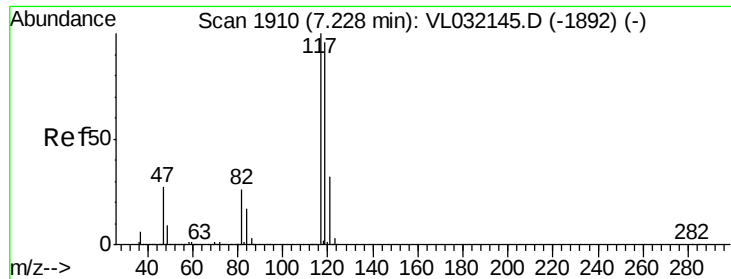
MMDadoda
 7/3/2018 5:17:27 PM



#34
 2-Butanone
 Concen: 8.79 ppbv
 RT: 5.40 min Scan# 1343
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.85 ppbv

RT: 7.22 min Scan# 1909

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2323975

Ion Ratio Lower Upper

117 100

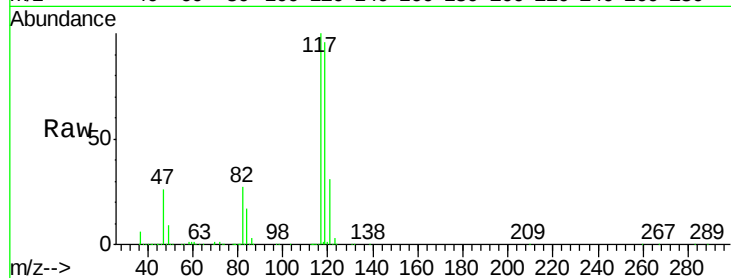
119 96.4 74.8 112.2

121 30.9 24.0 36.0

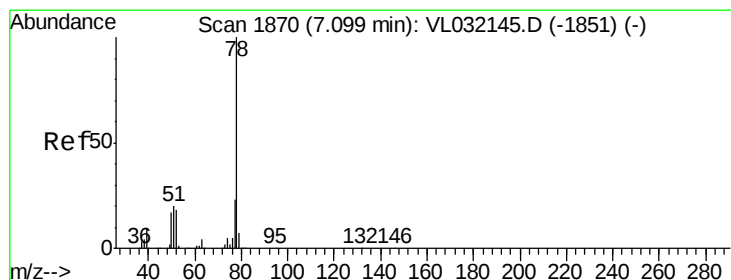
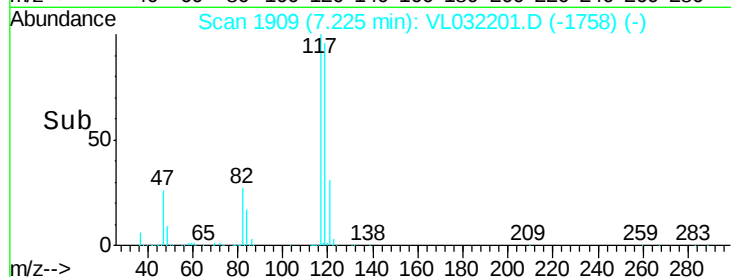
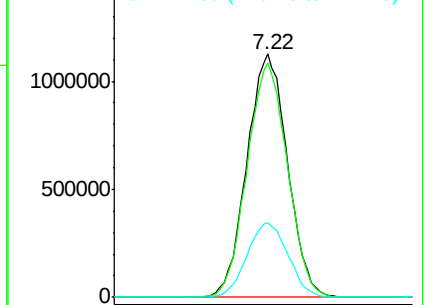
Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.28 ppbv

RT: 7.10 min Scan# 1869

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

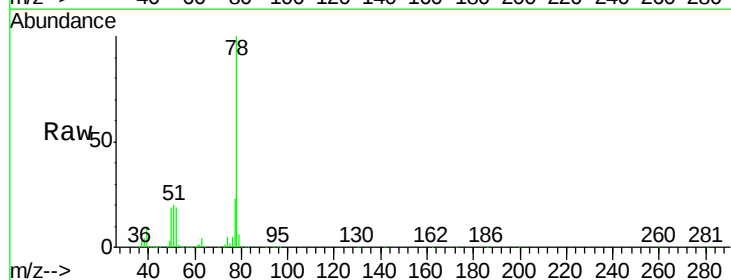
Tgt Ion: 78 Resp: 3445315

Ion Ratio Lower Upper

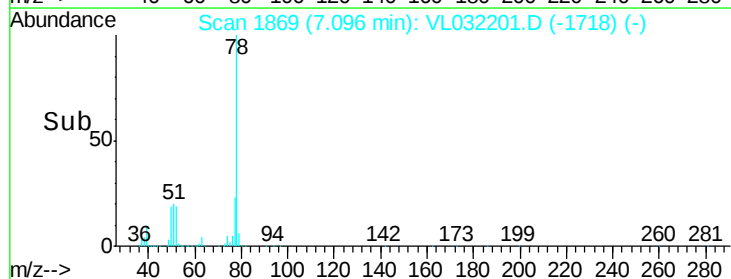
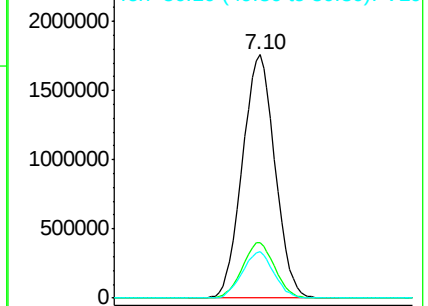
78 100

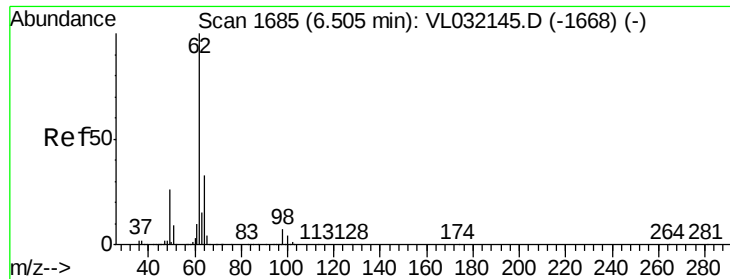
77 22.7 17.7 26.5

50 18.9 14.0 21.0



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





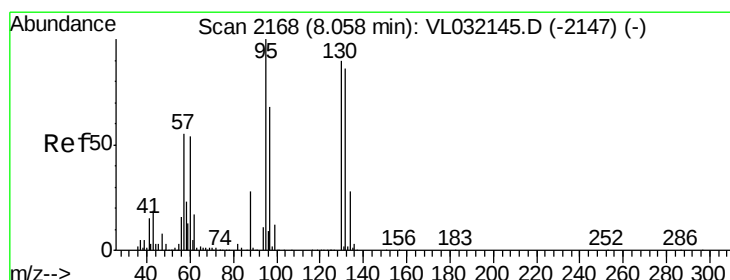
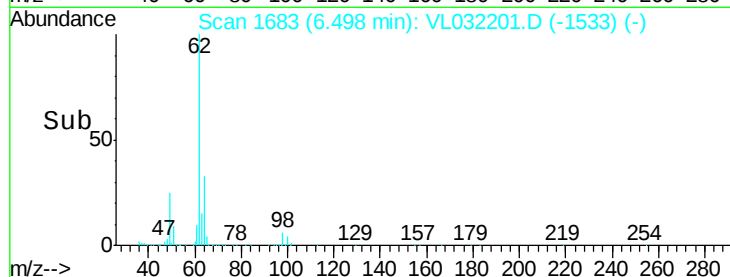
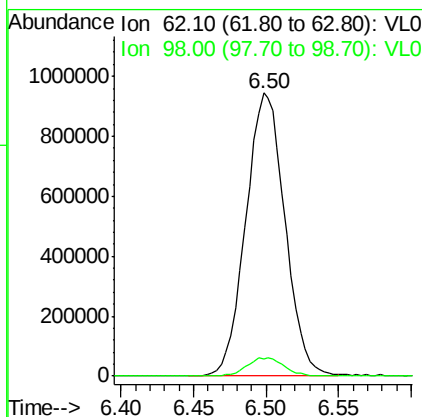
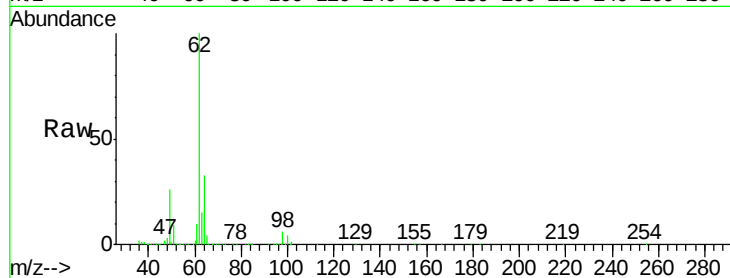
#37
 1,2-Dichloroethane
 Concen: 9.58 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1772569
 Ion Ratio Lower Upper
 62 100
 98 6.3 5.8 8.6

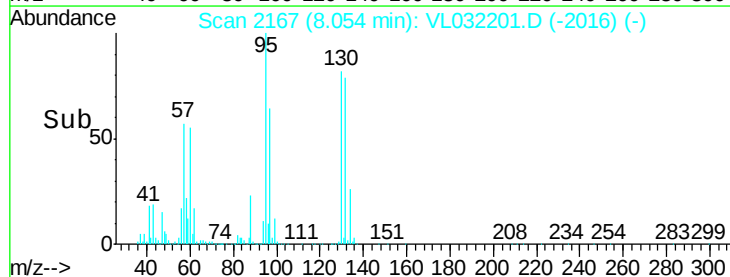
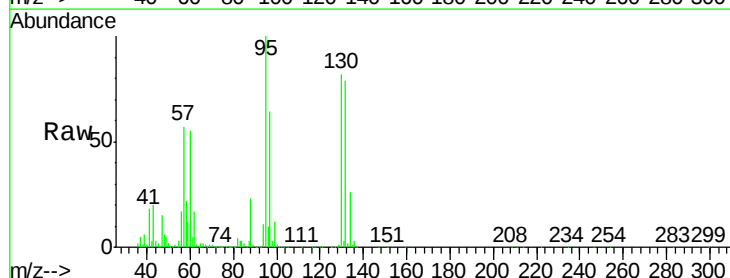
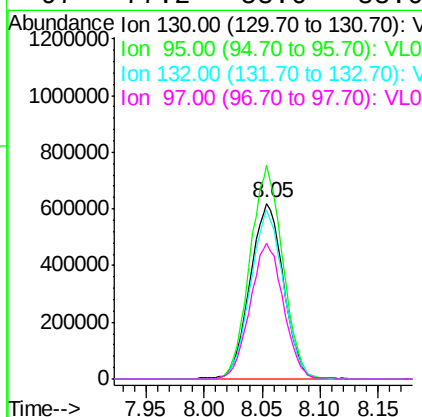
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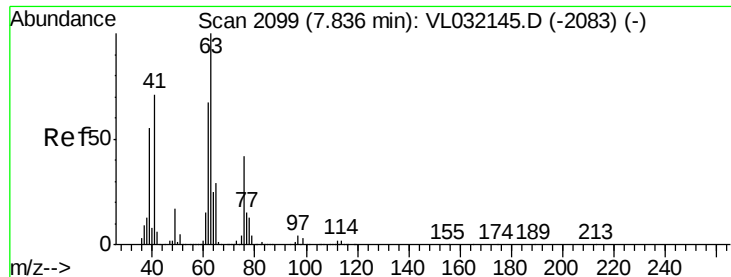
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#38
 Trichloroethene
 Concen: 8.57 ppbv
 RT: 8.05 min Scan# 2167
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion:130 Resp: 1243145
 Ion Ratio Lower Upper
 130 100
 95 121.5 88.1 132.1
 132 96.2 74.6 112.0
 97 77.2 58.6 88.0





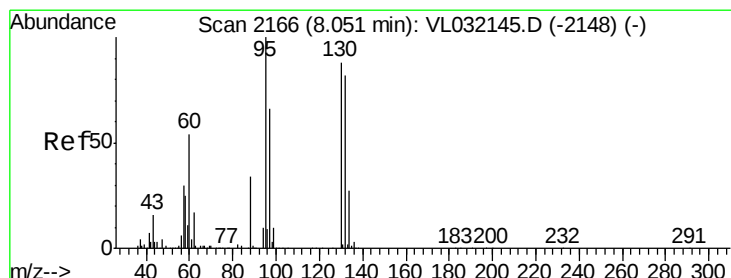
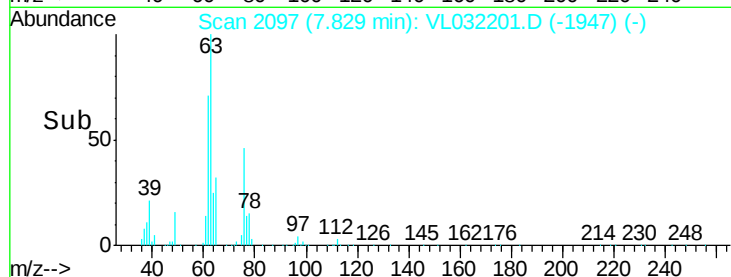
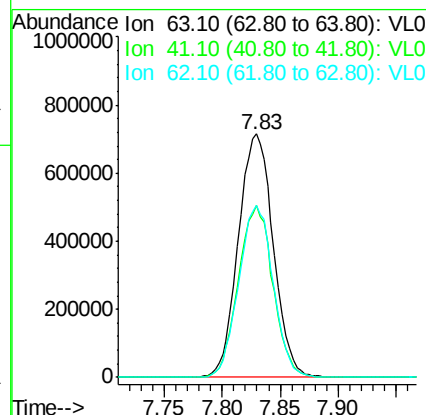
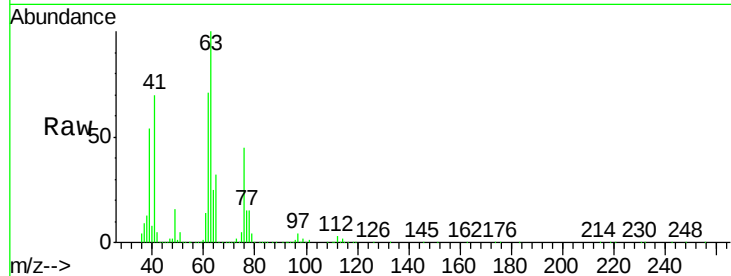
#39
 1,2-Dichloropropane
 Concen: 10.17 ppbv
 RT: 7.83 min Scan# 2097
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.4	53.3	79.9
62	70.8	54.8	82.2

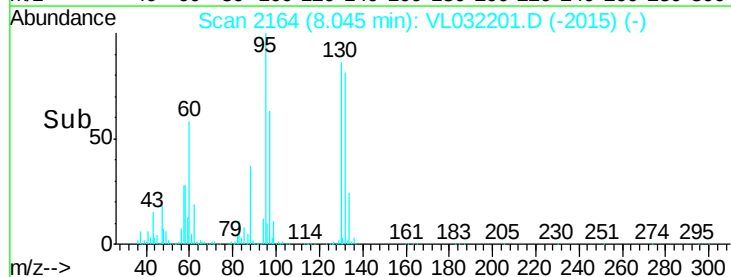
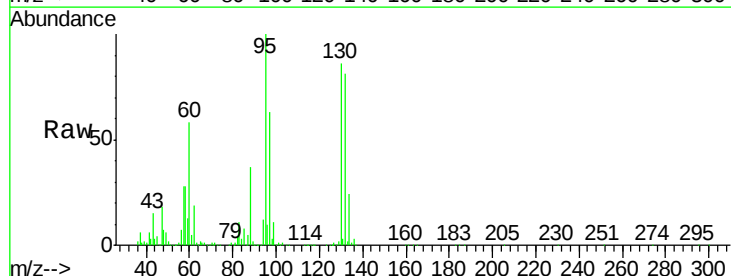
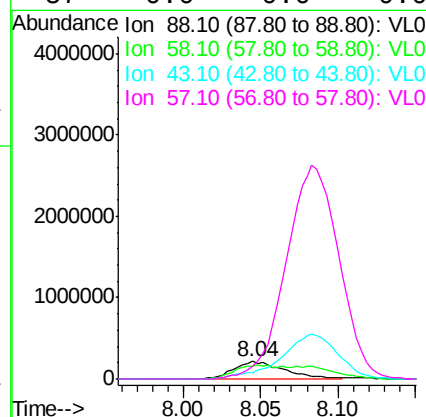
Manual Integrations
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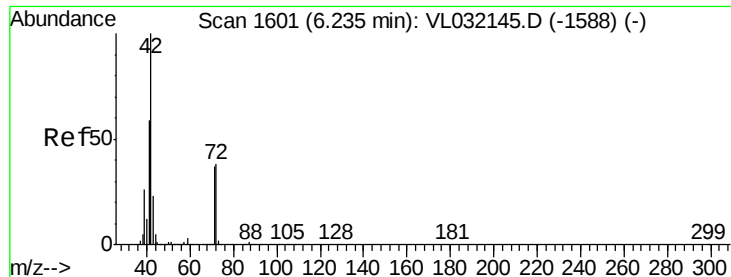
MMDadoda
 7/3/2018 5:17:27 PM



#40
 1,4-Dioxane
 Concen: 8.35 ppbv
 RT: 8.04 min Scan# 2164
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
88	100		
58	142.0	47.4	71.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





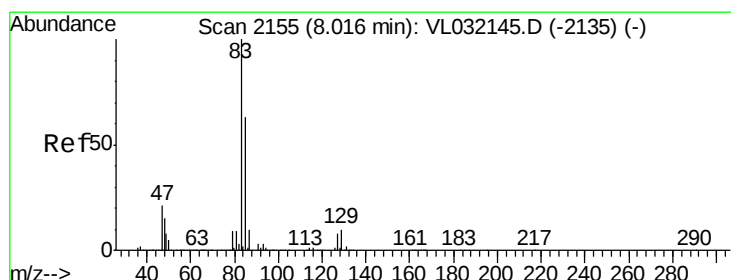
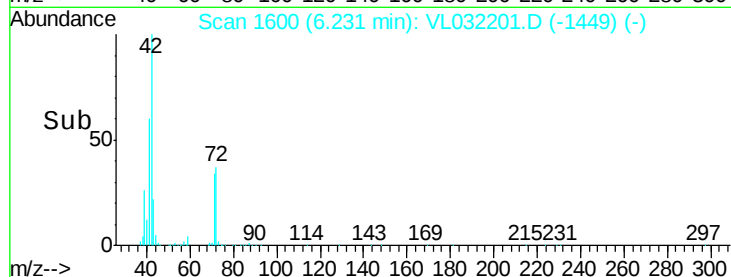
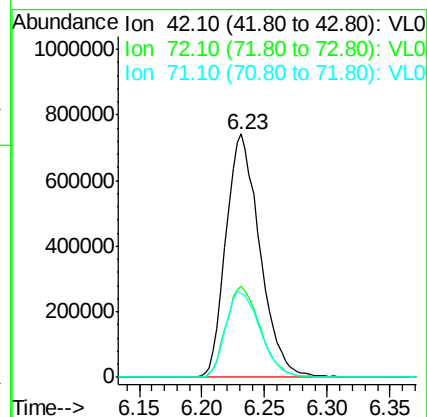
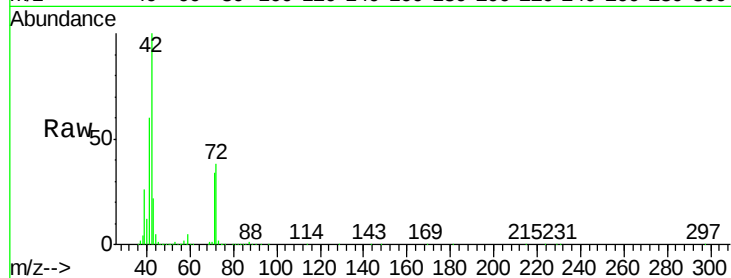
#41
Tetrahydrofuran
Concen: 9.55 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	31.1	46.7
71	36.5	29.5	44.3

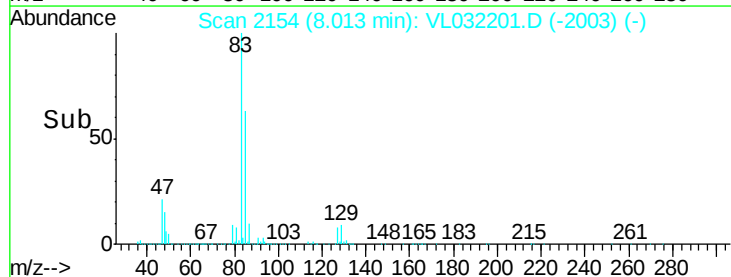
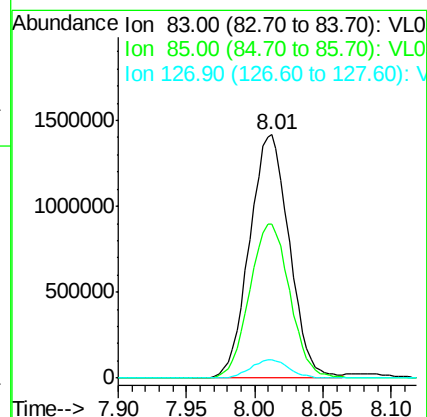
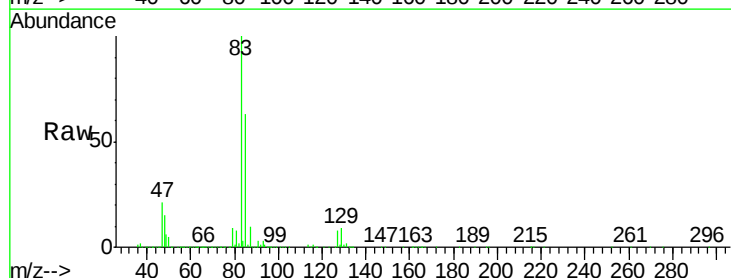
Manual Integrations
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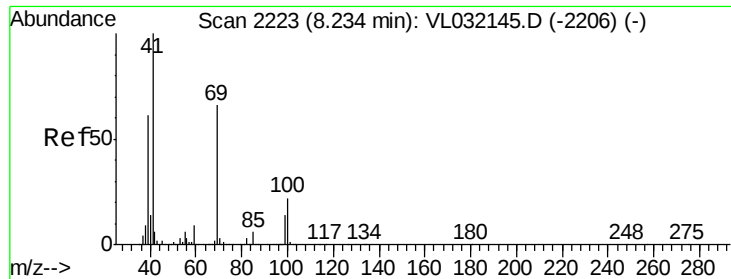
MMDadoda
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#42
Bromodichloromethane
Concen: 9.89 ppbv
RT: 8.01 min Scan# 2154
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.6	79.0
127	7.7	6.5	9.7





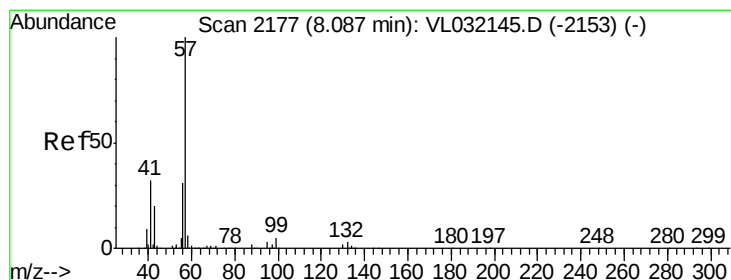
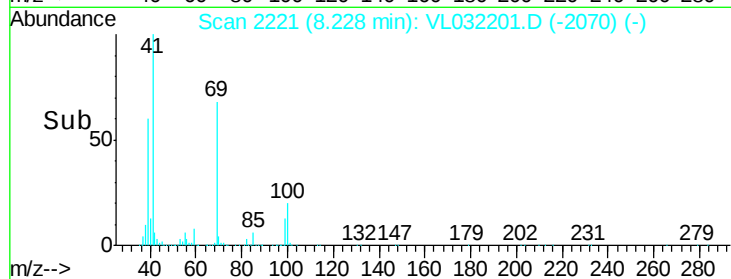
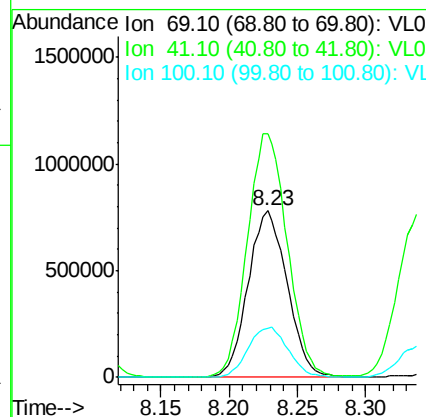
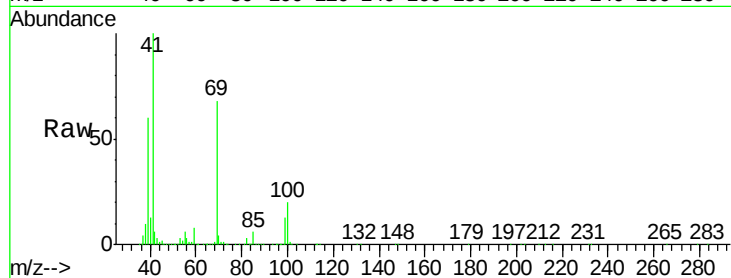
#43
Methyl Methacrylate
Concen: 10.10 ppbv
RT: 8.23 min Scan# 2221
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1554471
Ion Ratio Lower Upper
69 100
41 149.0 118.2 177.4
100 30.9 27.4 41.2

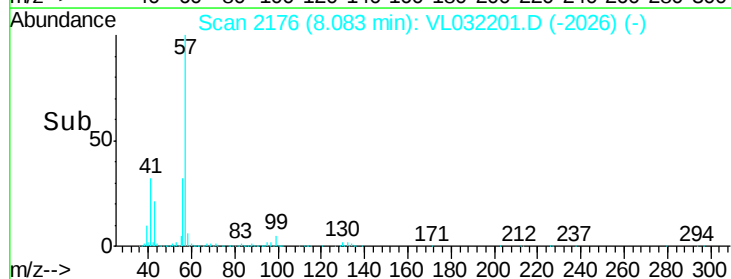
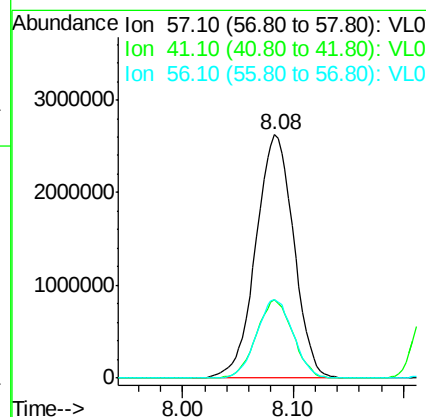
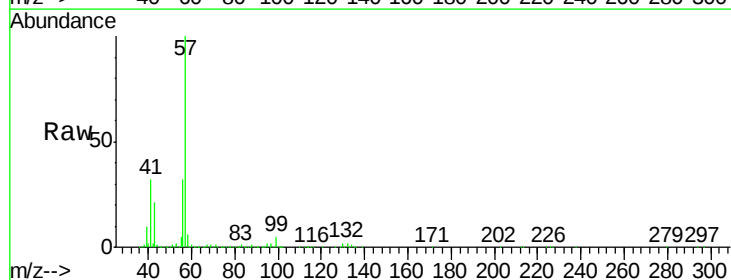
Manual Integrations
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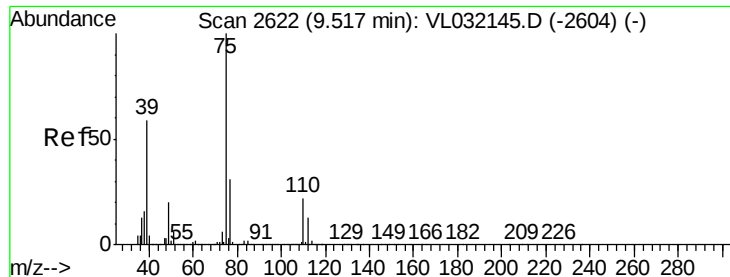
MMDadoda
7/3/2018 5:17:27 PM



#44
2,2,4-Trimethylpentane
Concen: 9.63 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion: 57 Resp: 6252953
Ion Ratio Lower Upper
57 100
41 31.1 24.3 36.5
56 31.5 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 9.82 ppbv

RT: 9.51 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Tot Ion: 75 Resp: 1873495

Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

Instrument :

MSVOA_L

ClientSampleId :

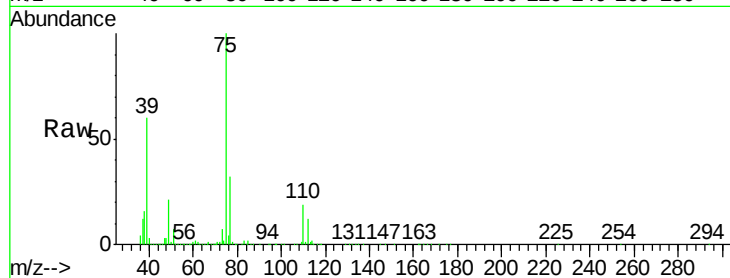
VSTDCCC010EC

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.51

1000000

800000

600000

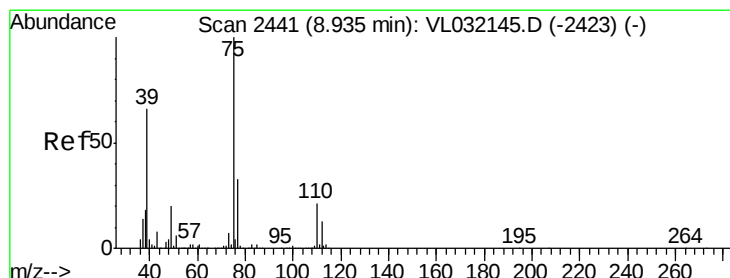
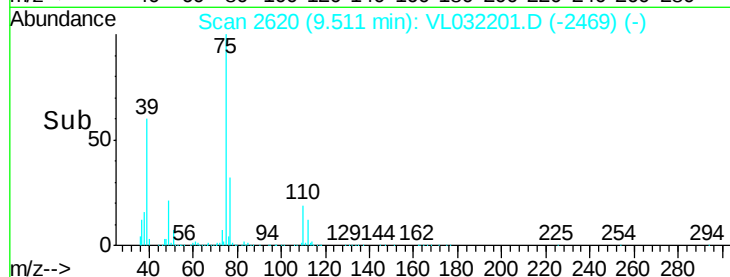
400000

200000

0

9.45 9.50 9.55 9.60

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.31 ppbv

RT: 8.93 min Scan# 2440

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

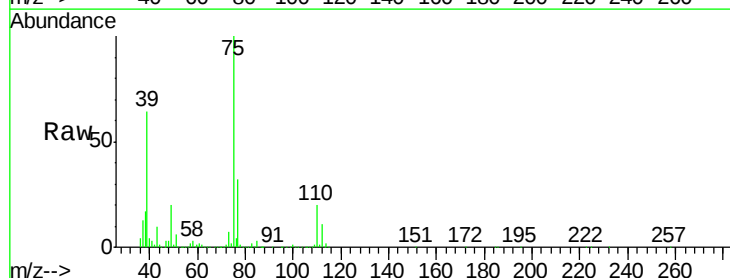
Tgt Ion: 75 Resp: 2119742

Ion Ratio Lower Upper

75 100

39 64.2 51.9 77.9

77 31.6 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.93

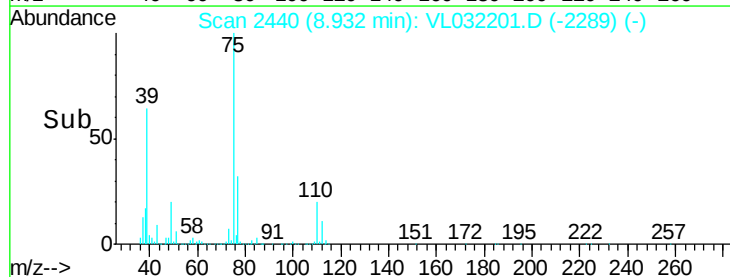
1000000

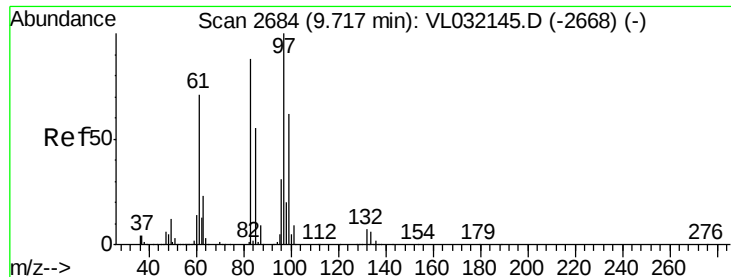
500000

0

8.85 8.90 8.95 9.00

Time-->





#47

1,1,2-Trichloroethane

Concen: 9.07 ppbv

RT: 9.71 min Scan# 2683

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1380905

Ion Ratio Lower Upper

97 100

83 91.0 71.0 106.4

85 57.5 44.2 66.4

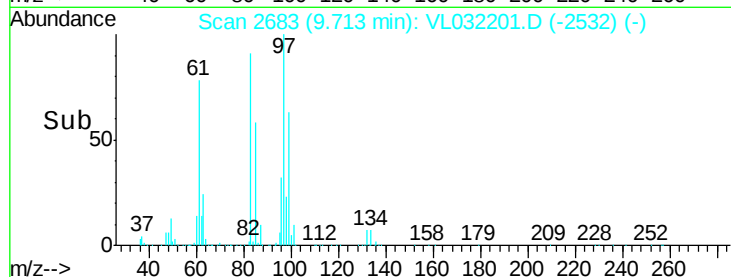
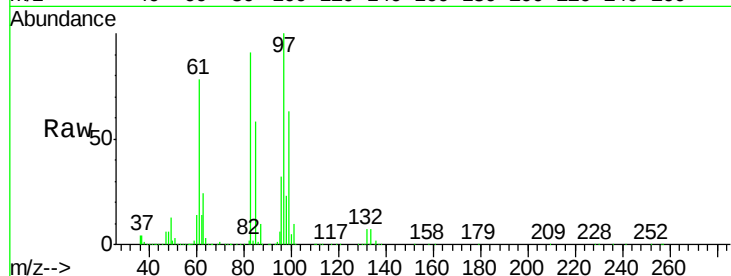
99 63.0 49.2 73.8

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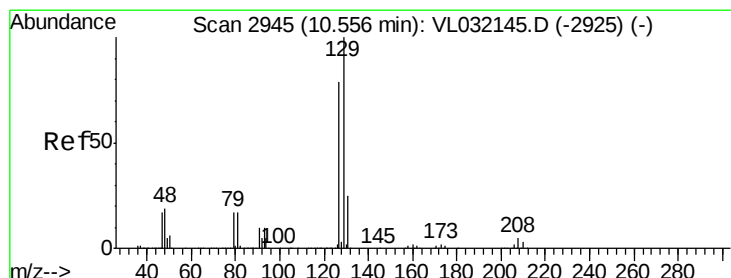
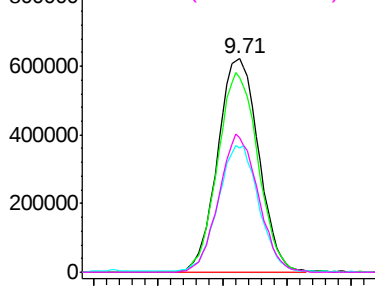


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.13 ppbv

RT: 10.55 min Scan# 2943

Delta R.T. -0.02 min

Lab File: VL032201.D

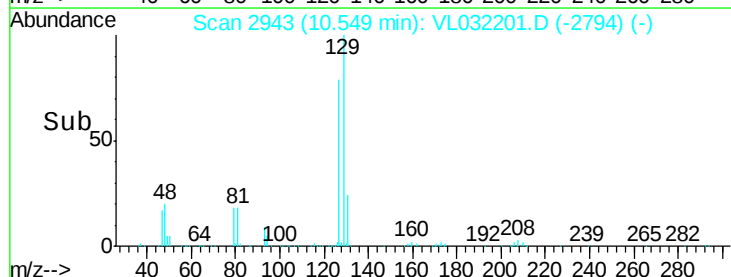
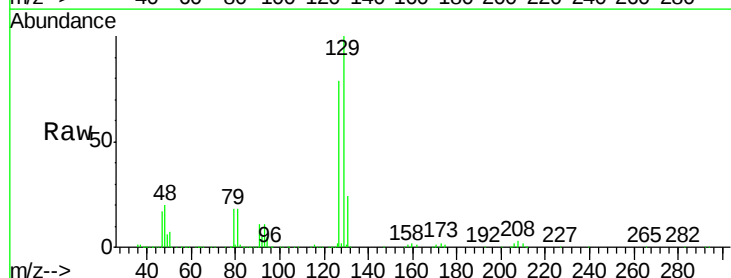
Acq: 3 Jul 2018 8:33

Tgt Ion: 129 Resp: 2150779

Ion Ratio Lower Upper

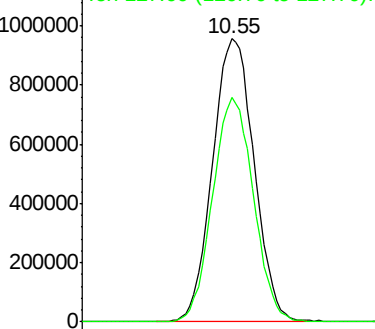
129 100

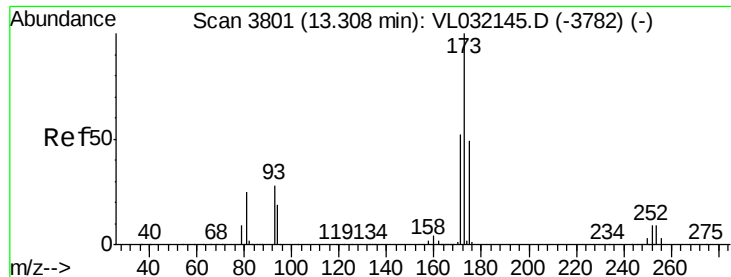
127 78.0 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





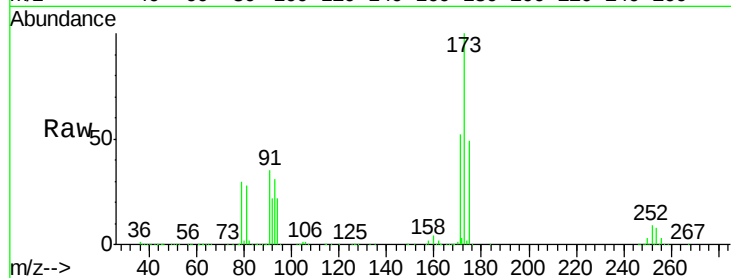
#49
Bromoform
Concen: 7.72 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

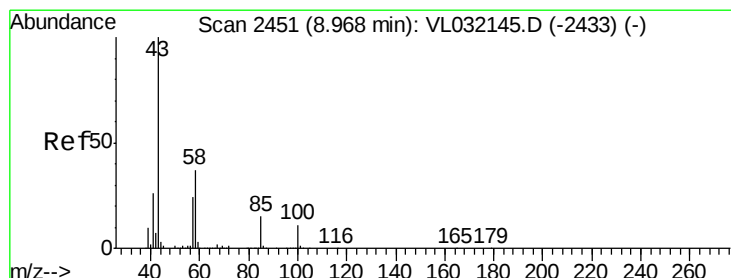
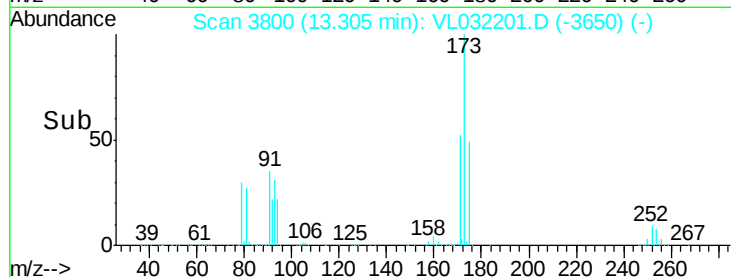
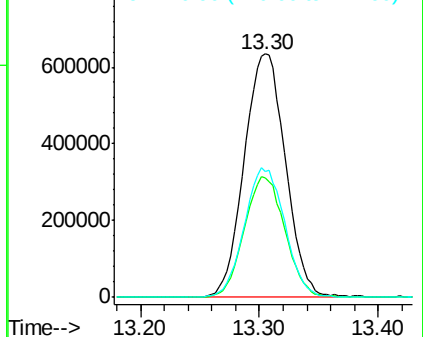
Tot Ion:173 Resp: 1522527
Ion Ratio Lower Upper
173 100
175 49.1 39.4 59.0
171 52.4 41.8 62.8

Manual Integrations
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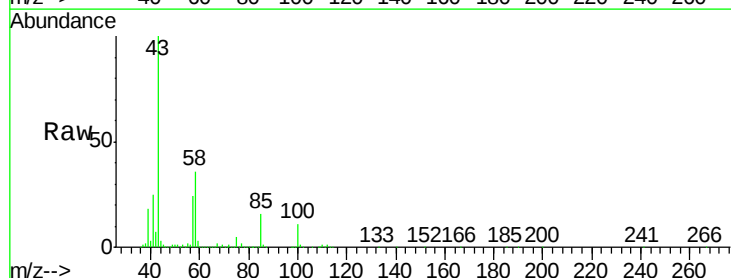


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

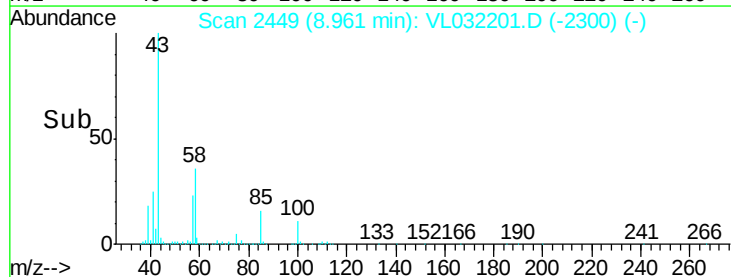
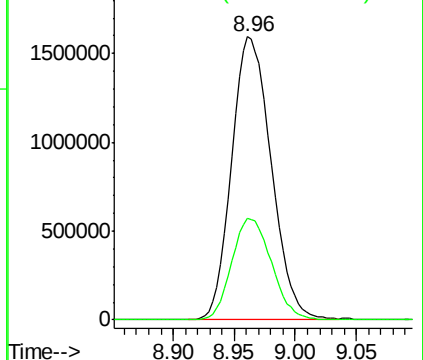


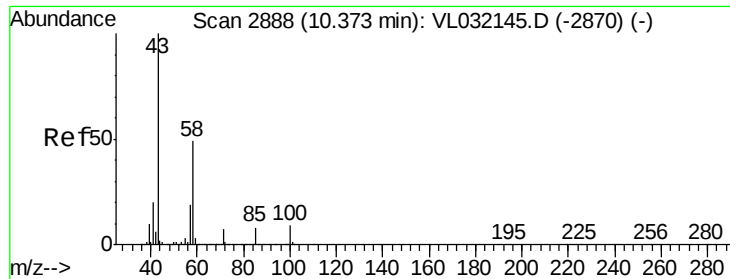
#50
4-Methyl-2-Pentanone
Concen: 9.00 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion: 43 Resp: 3587821
Ion Ratio Lower Upper
43 100
58 36.2 29.8 44.6



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





#51

2-Hexanone

Concen: 9.37 ppbv

RT: 10.37 min Scan# 2886

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3098997

Ion Ratio Lower Upper

43 100

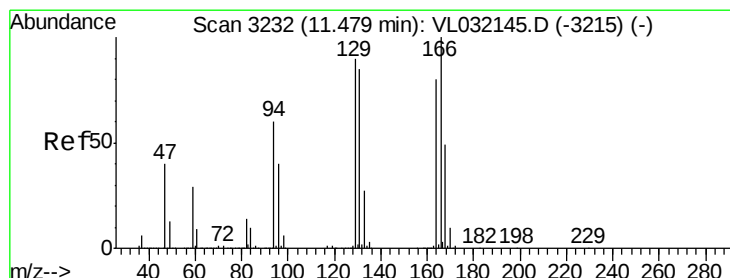
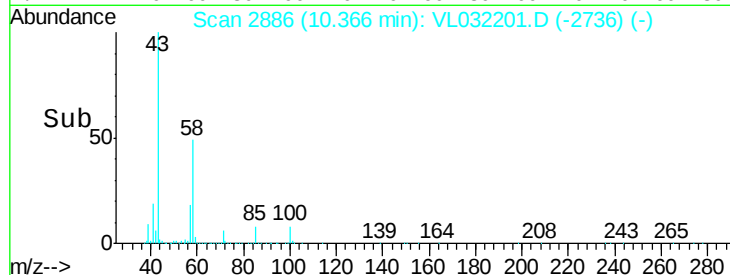
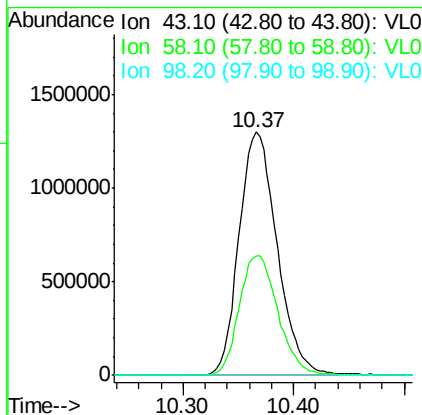
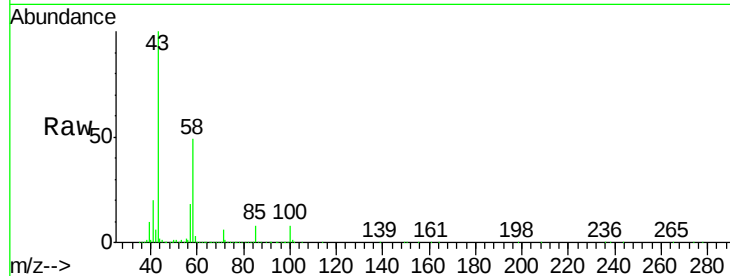
58 50.5 40.6 60.8

98 0.1 0.1 0.1#

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#52

Tetrachloroethene

Concen: 7.65 ppbv

RT: 11.47 min Scan# 3230

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Tgt Ion: 164 Resp: 1032360

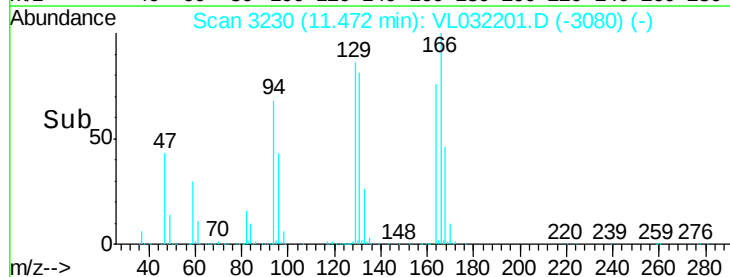
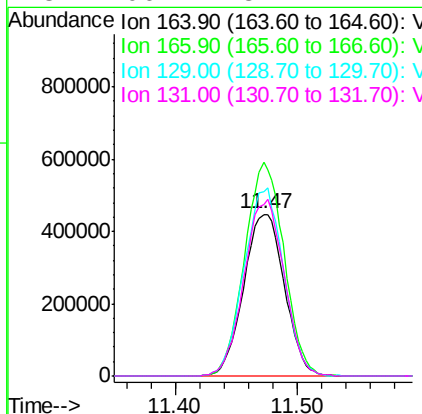
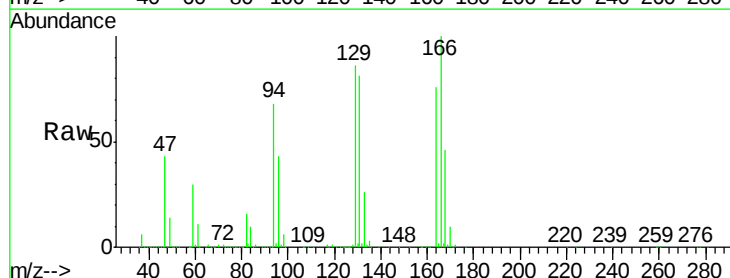
Ion Ratio Lower Upper

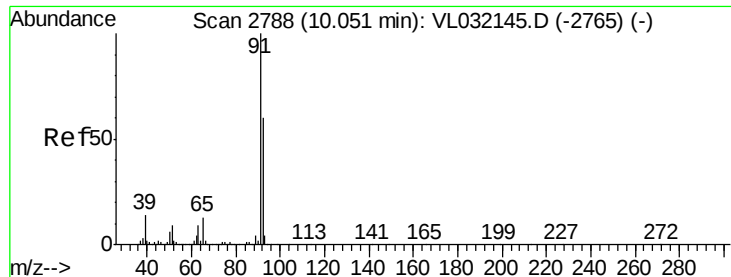
164 100

166 131.9 100.6 151.0

129 113.9 84.0 126.0

131 106.2 82.7 124.1





#53

Toluene

Concen: 9.07 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4069342

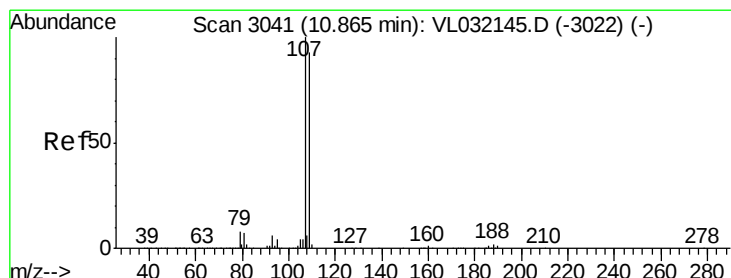
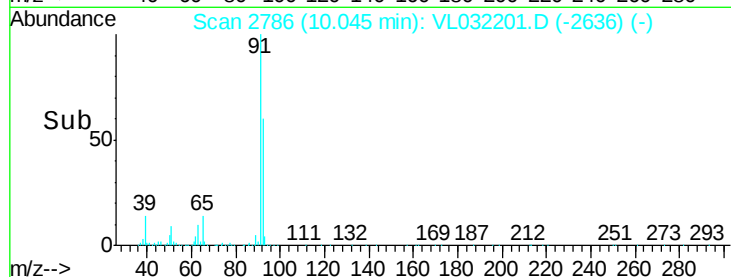
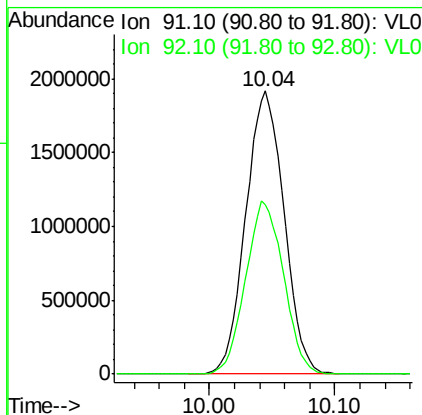
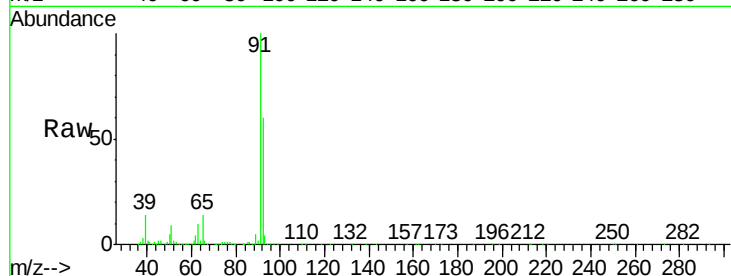
Ion Ratio Lower Upper

91 100

92 60.7 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 8.99 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. -0.02 min

Lab File: VL032201.D

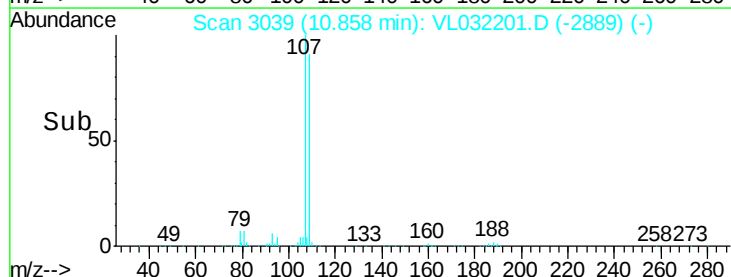
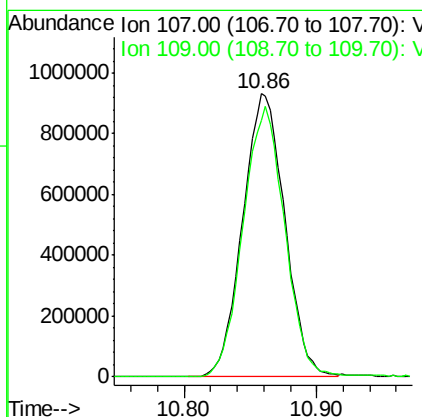
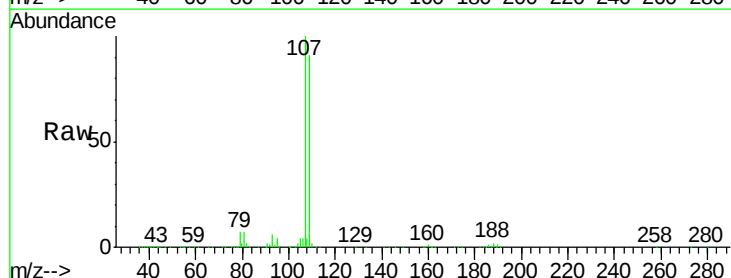
Acq: 3 Jul 2018 8:33

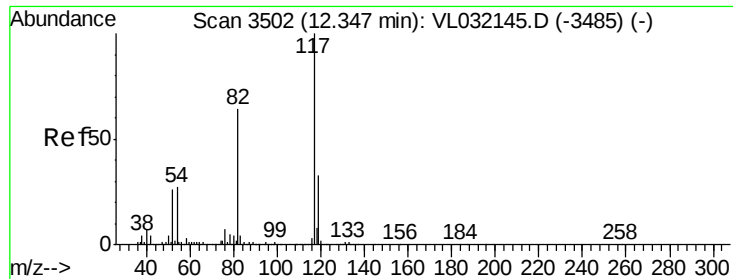
Tgt Ion: 107 Resp: 2056144

Ion Ratio Lower Upper

107 100

109 90.5 75.0 112.4





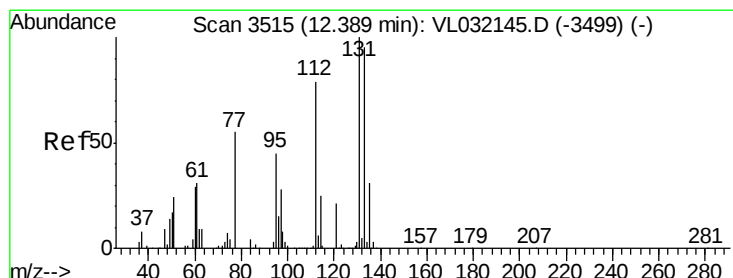
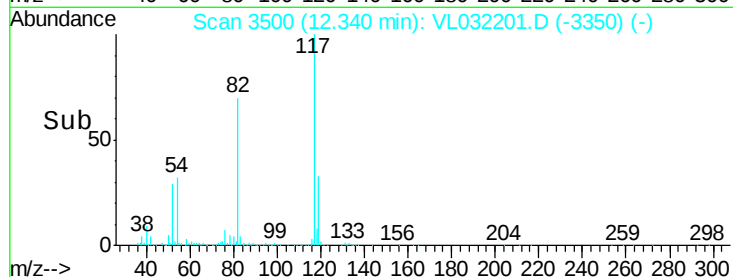
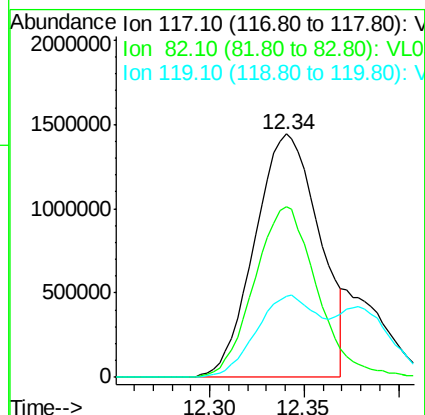
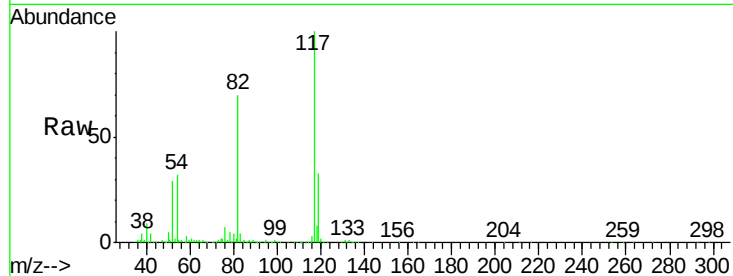
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.7	47.8	71.8
119	33.1	43.3	64.9#

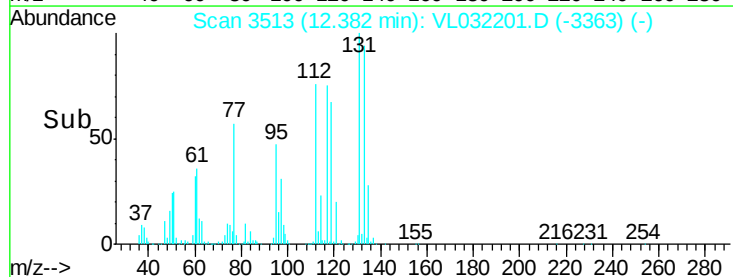
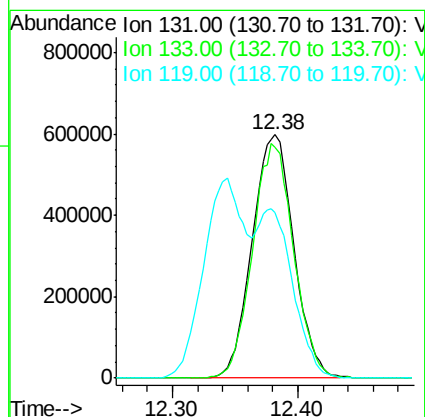
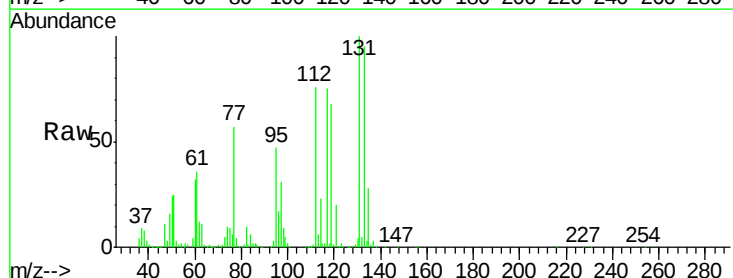
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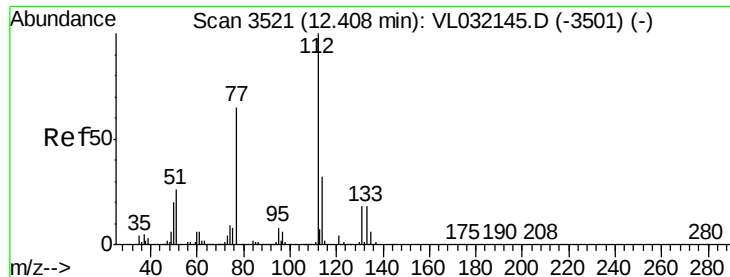
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.99 ppbv
RT: 12.38 min Scan# 3513
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	75.5	113.3
119	143.7	118.4	177.6





#57

Chlorobenzene

Concen: 9.06 ppbv

RT: 12.40 min Scan# 3519

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2694960

Ion Ratio Lower Upper

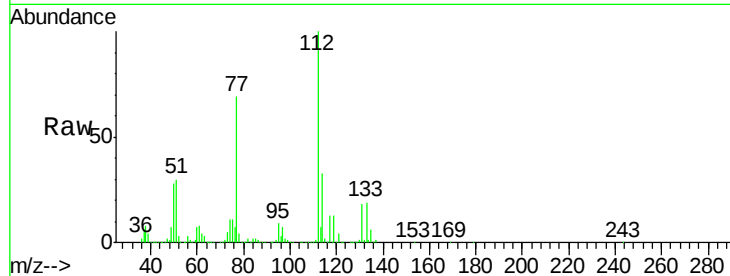
112 100

77 68.8 52.6 78.8

114 32.4 27.9 34.1

Manual Integrations
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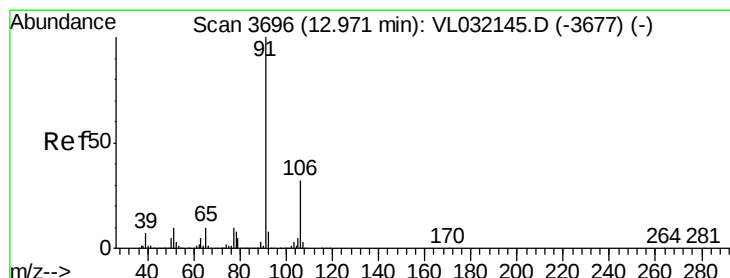
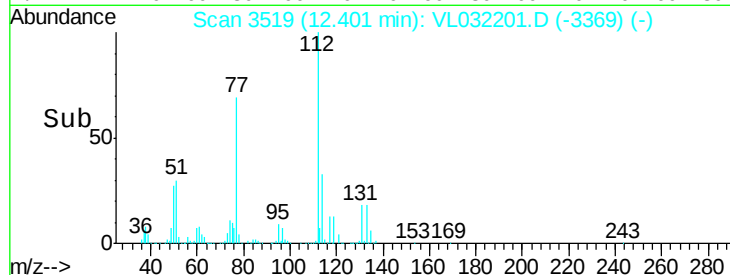
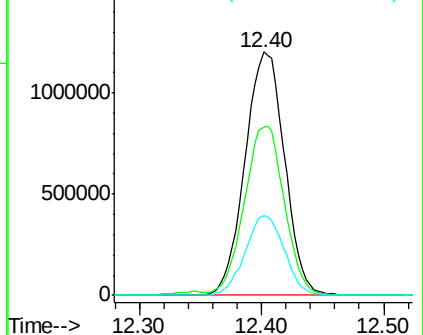
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.17 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032201.D

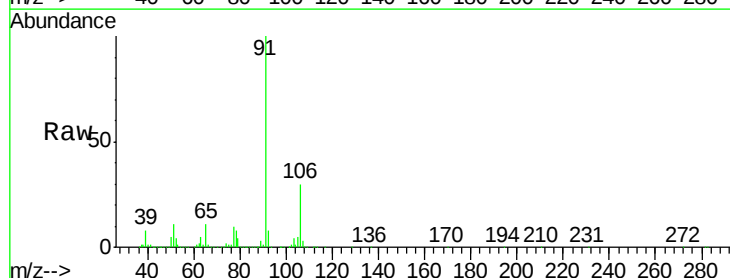
Acq: 3 Jul 2018 8:33

Tgt Ion: 91 Resp: 5076945

Ion Ratio Lower Upper

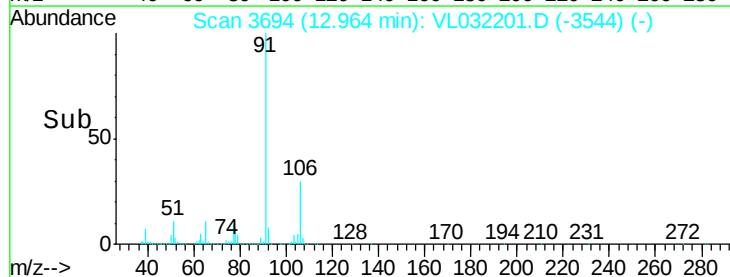
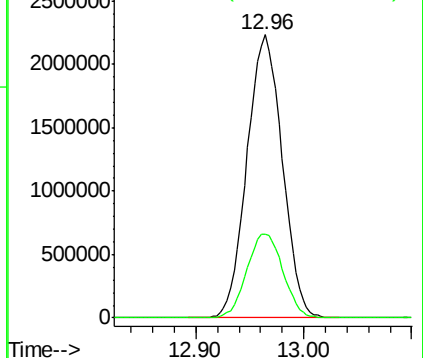
91 100

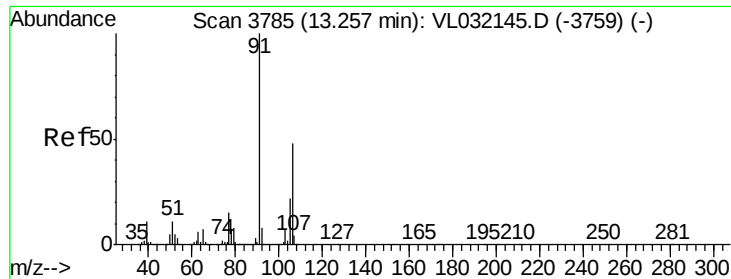
106 29.7 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





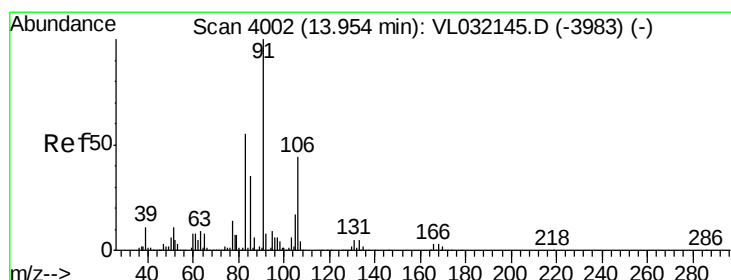
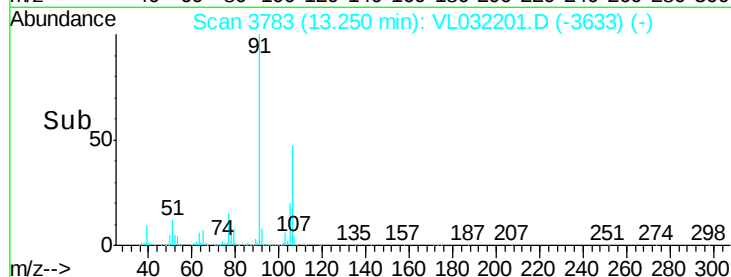
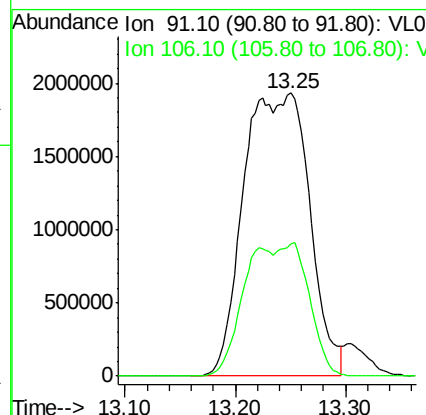
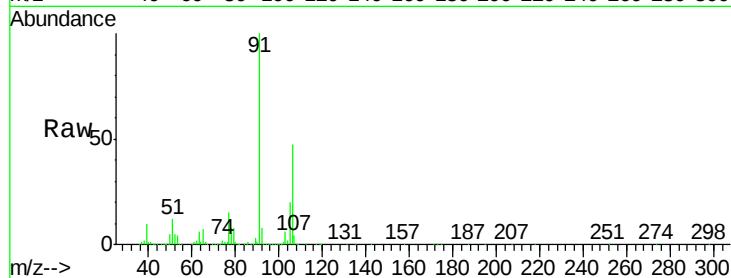
#59
m/p-Xylene
Concen: 18.04 ppbv m
RT: 13.25 min Scan# 3783
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8008168
Ion Ratio Lower Upper
91 100
106 45.6 38.6 58.0

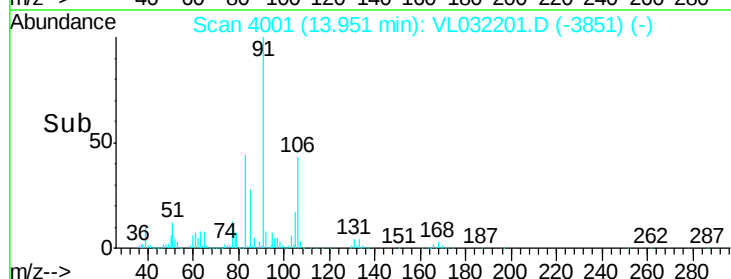
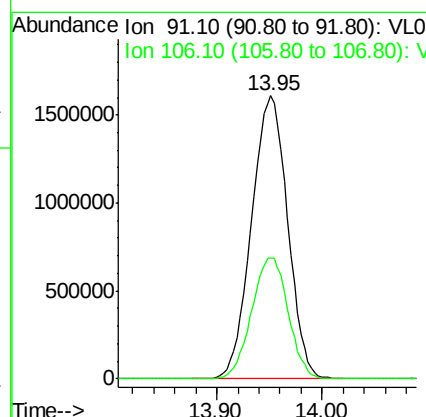
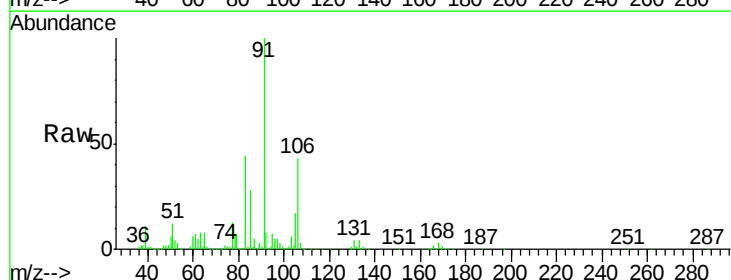
Manual Integrations
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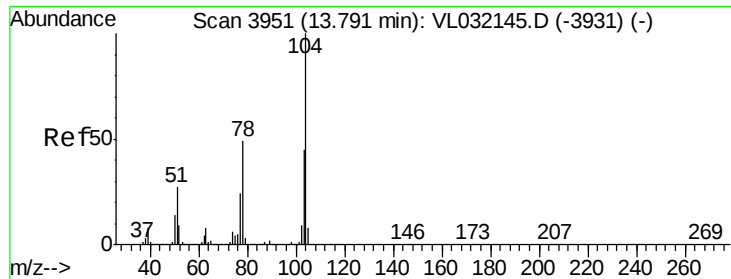
MMDadoda
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#60
o-Xylene
Concen: 8.67 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion: 91 Resp: 3837707
Ion Ratio Lower Upper
91 100
106 43.4 23.3 69.8





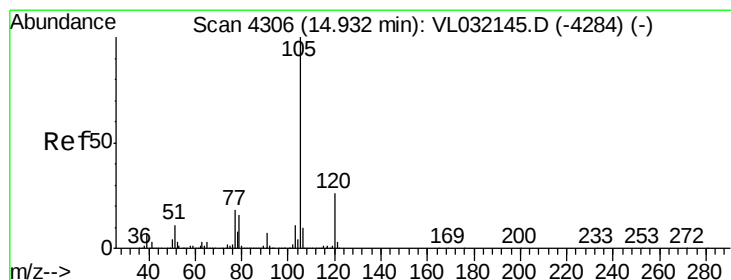
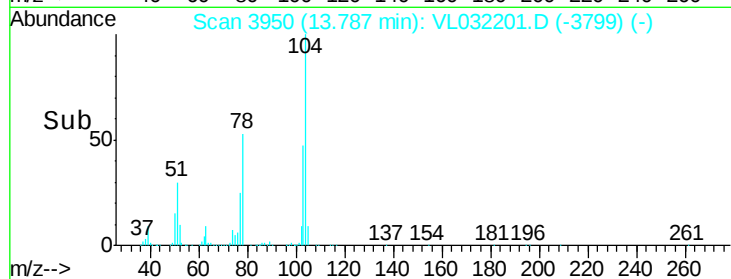
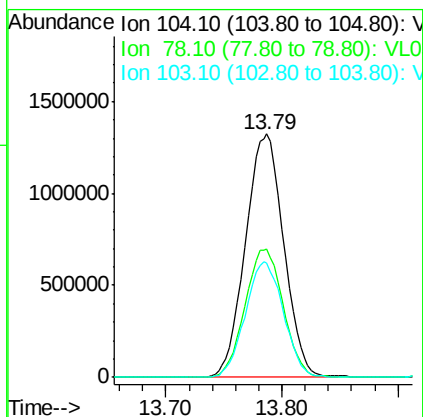
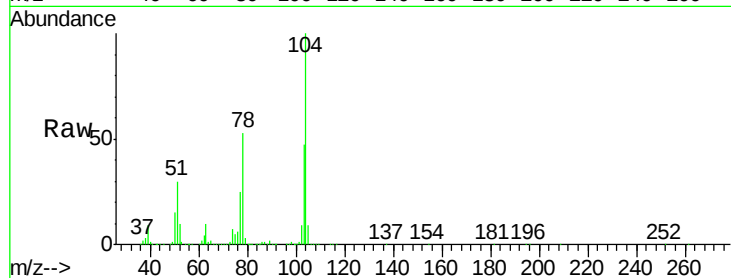
#61
Stvrene
Concen: 8.37 ppbv
RT: 13.79 min Scan# 3950
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.8	37.9	56.9
103	47.4	36.6	55.0

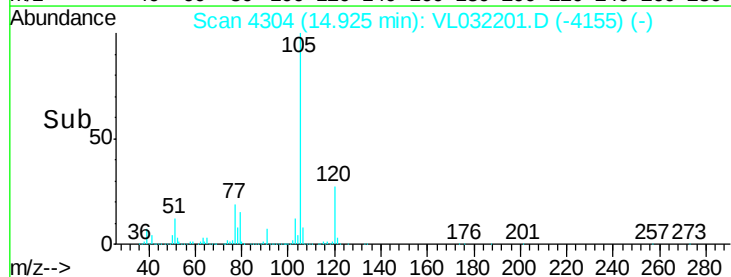
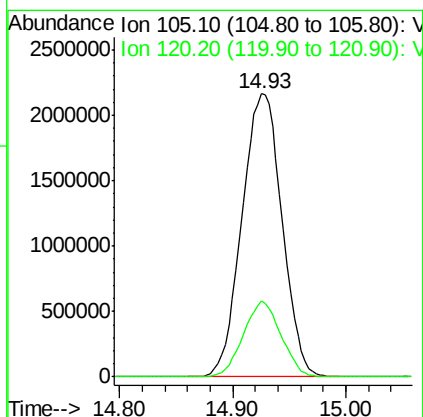
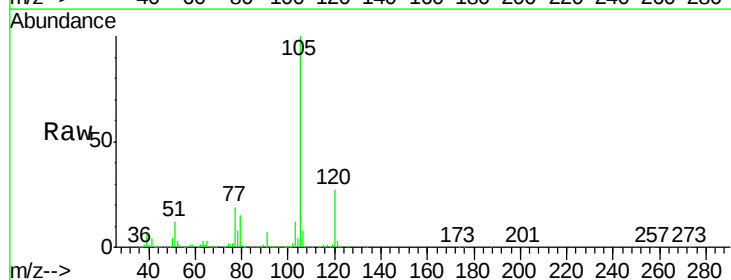
Manual Integrations
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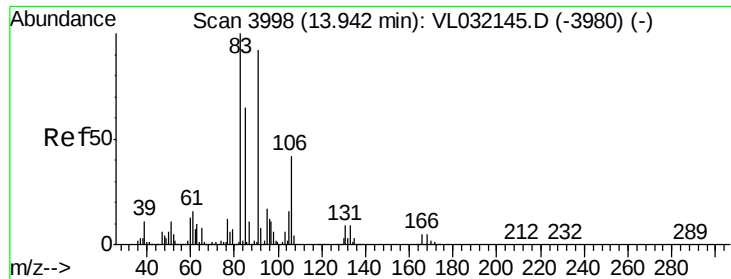
MMDadoda
7/3/2018 5:17:27 PM



#62
Isopropylbenzene
Concen: 7.83 ppbv
RT: 14.93 min Scan# 4304
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	21.0	31.4





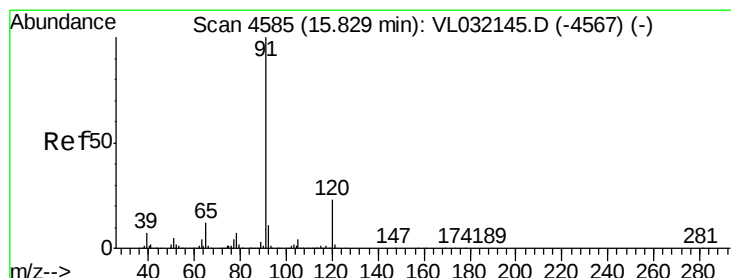
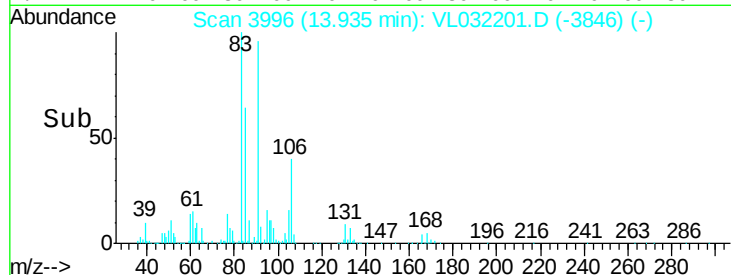
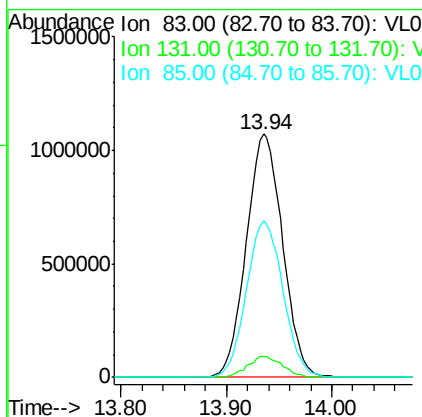
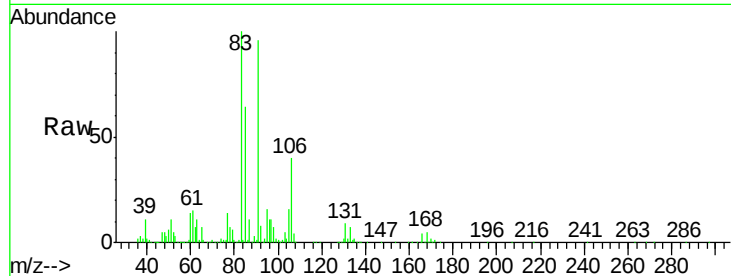
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.51 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2572812
Ion Ratio	100	Lower	Upper
83	100		
131	8.3	4.6	13.8
85	64.9	32.4	97.2

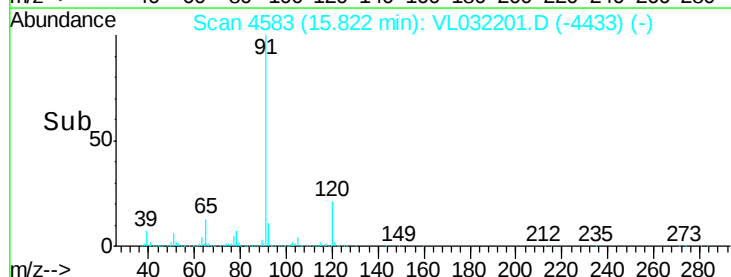
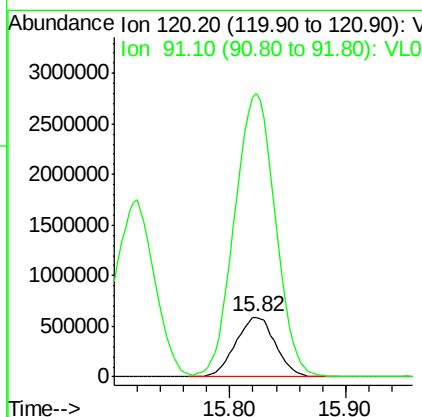
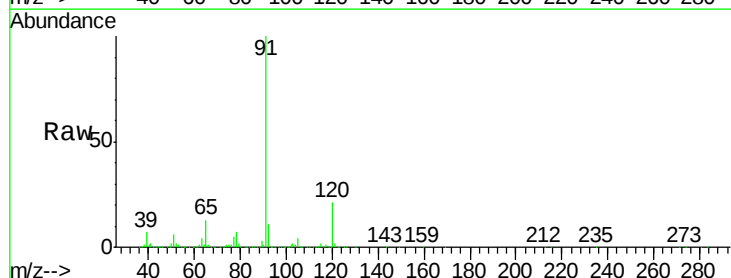
Manual Integrations
 APPROVED

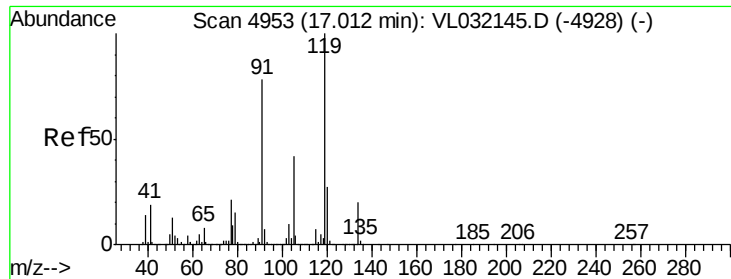
MMDadoda
 7/3/2018 5:17:27 PM



#64
 n-propylbenzene
 Concen: 7.96 ppbv
 RT: 15.82 min Scan# 4583
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion	120	Resp	1402145
Ion Ratio	100	Lower	Upper
120	100		
91	488.4	357.4	536.0





#65

tert-Butylbenzene

Concen: 7.22 ppbv

RT: 17.01 min Scan# 4951

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4315999

Ion Ratio Lower Upper

119 100

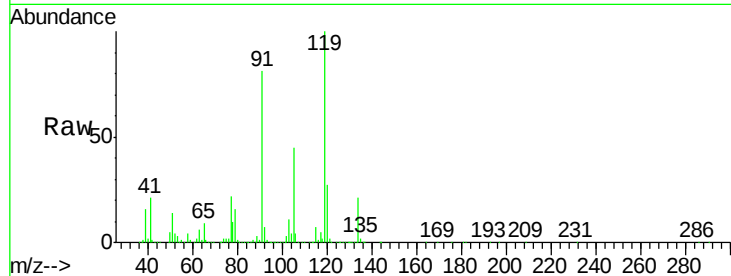
91 85.4 62.2 93.2

134 19.3 16.2 24.2

Manual Integrations
APPROVED

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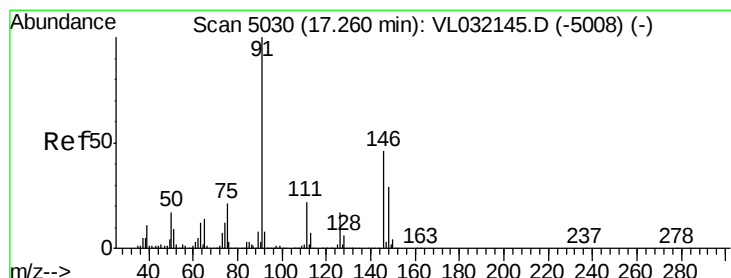
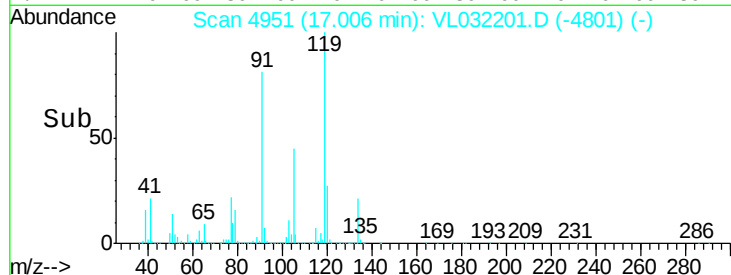
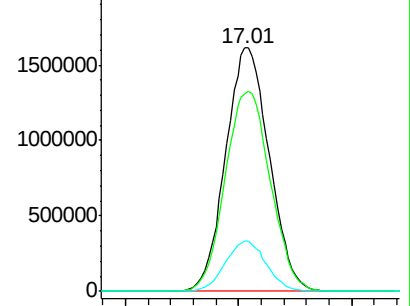
7/3/2018 5:17:27 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 6.61 ppbv

RT: 17.26 min Scan# 5029

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

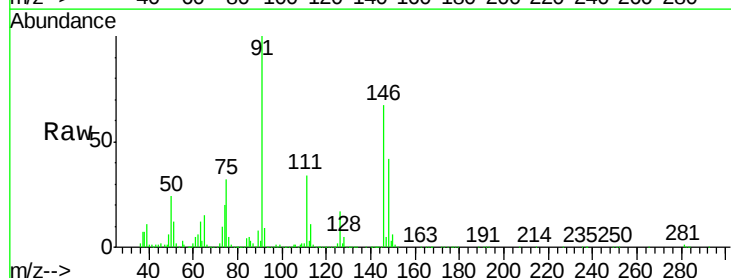
Tgt Ion: 91 Resp: 2440788

Ion Ratio Lower Upper

91 100

126 16.8 15.7 23.5

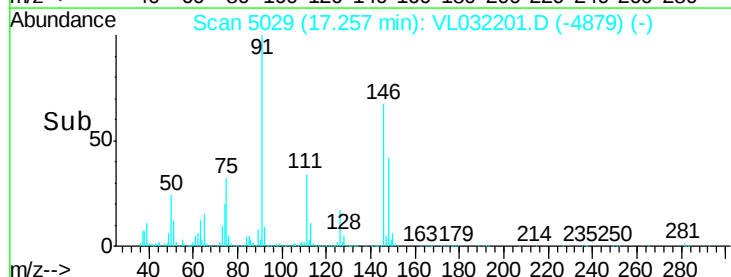
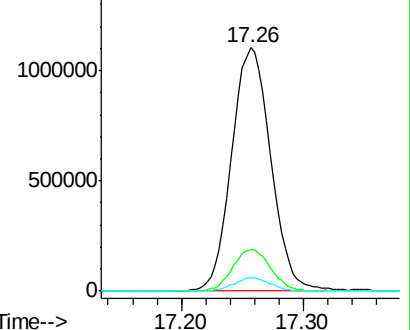
128 5.3 5.2 7.8

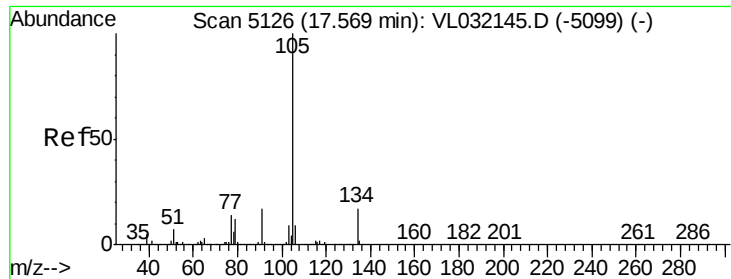


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.29 ppbv

RT: 17.56 min Scan# 5123

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6380521

Ion Ratio Lower Upper

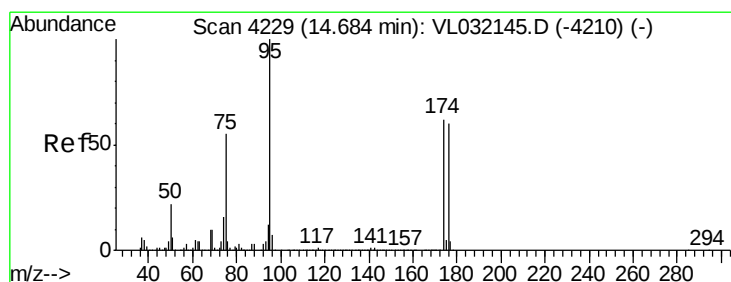
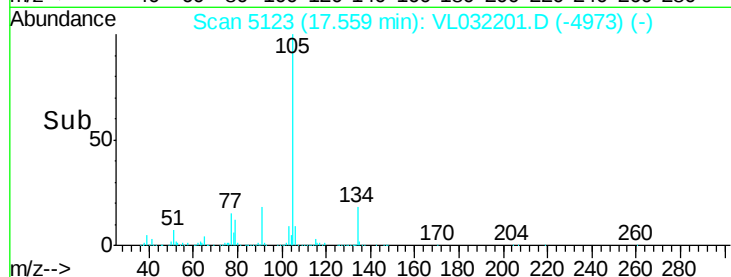
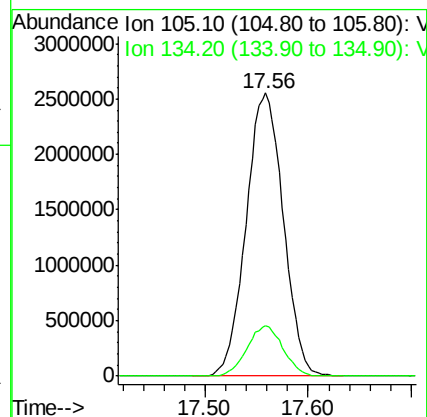
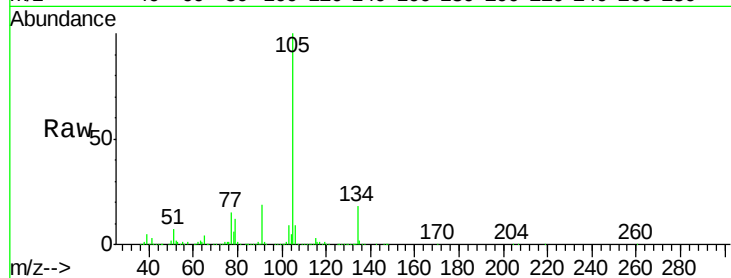
105 100

134 17.3 14.7 22.1

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 9.72 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

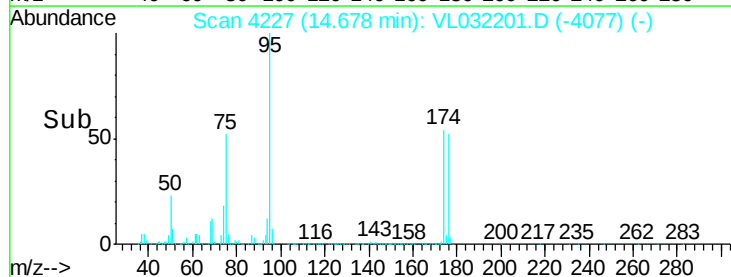
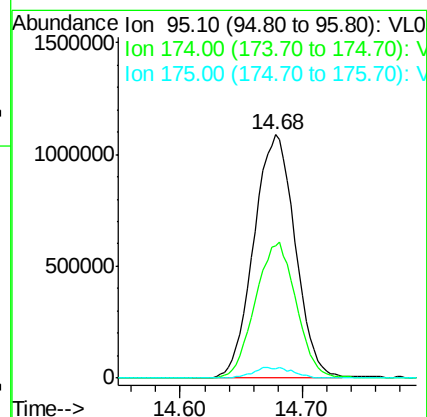
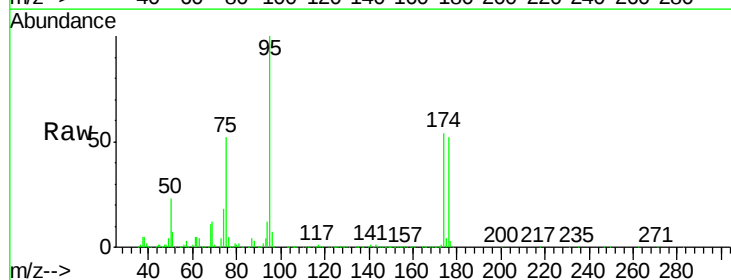
Tgt Ion: 95 Resp: 2551626

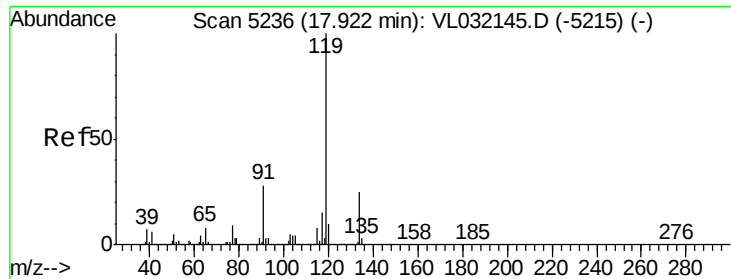
Ion Ratio Lower Upper

95 100

174 55.4 52.1 78.1

175 4.2 4.0 6.0





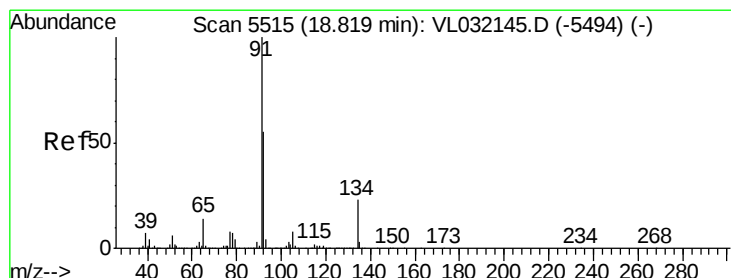
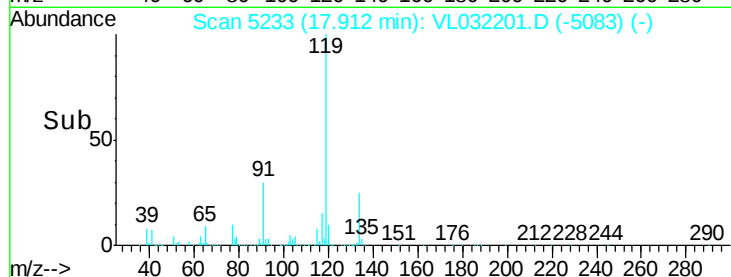
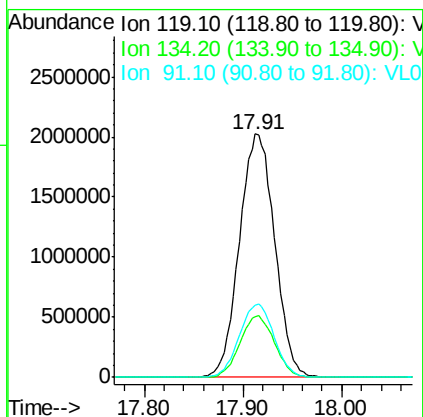
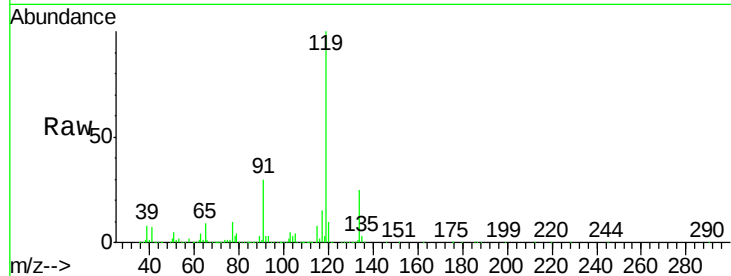
#69
p-Isopropyltoluene
Concen: 7.11 ppbv
RT: 17.91 min Scan# 5233
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.7	31.1
91	29.8	21.8	32.8

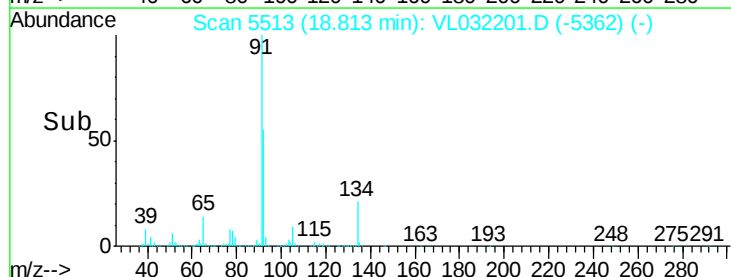
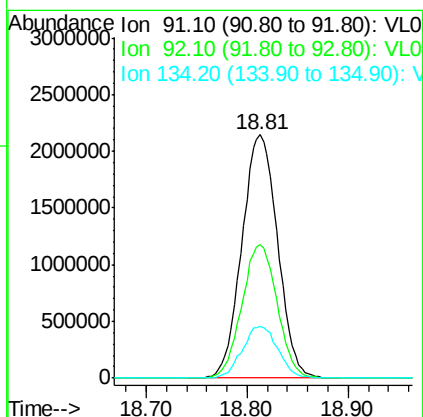
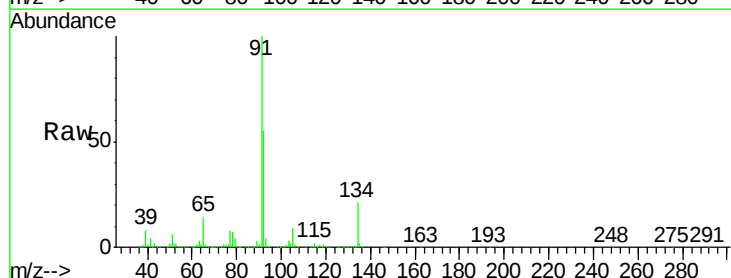
Manual Integrations
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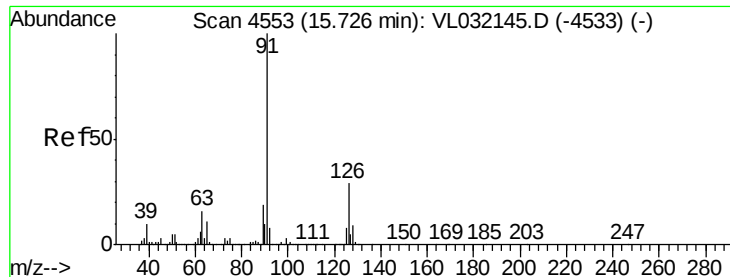
MMDadoda
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#70
n-Butylbenzene
Concen: 7.15 ppbv
RT: 18.81 min Scan# 5513
Delta R.T. -0.02 min
Lab File: VL032201.D
Acq: 3 Jul 2018 8:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.7	65.5
134	21.2	18.9	28.3





#71

2-Chlorotoluene

Concen: 7.87 ppbv

RT: 15.72 min Scan# 4551

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4125611

Ion Ratio Lower Upper

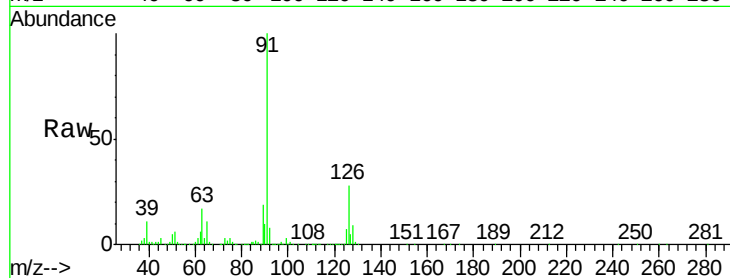
91 100

126 28.8 12.8 51.0

Manual Integrations
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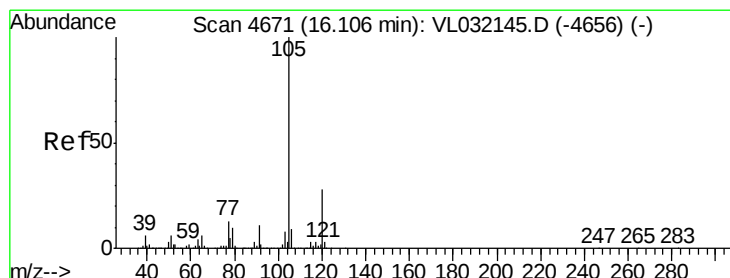
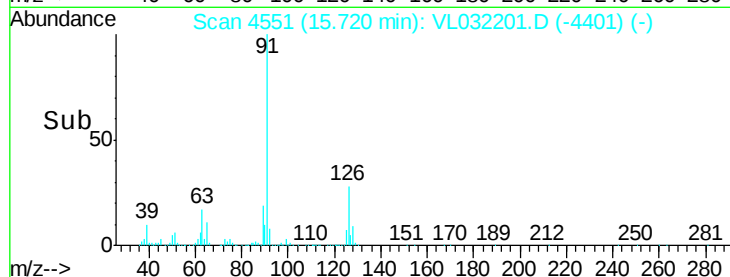
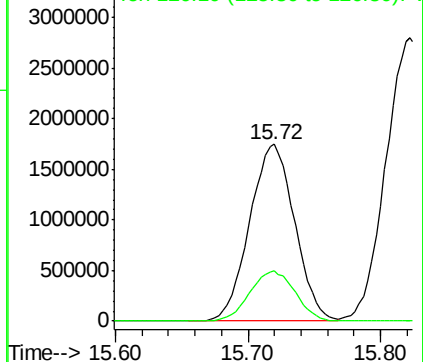
MMDadoda

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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: 8.08 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Tgt Ion: 105 Resp: 4621075

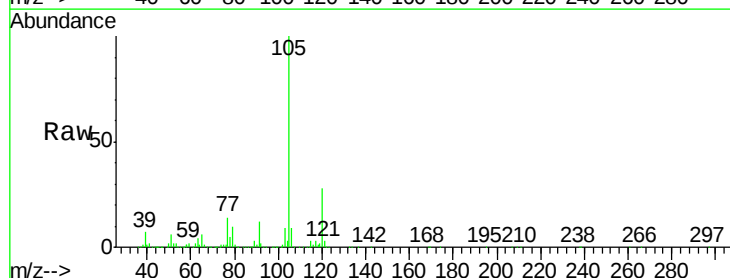
Ion Ratio Lower Upper

105 100

120 28.5 24.3 36.5

91 12.3 9.4 14.0

77 14.1 10.2 15.2

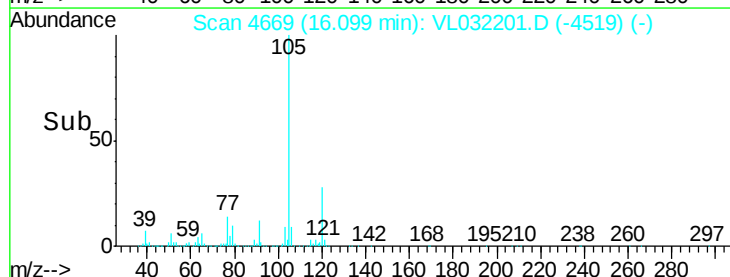
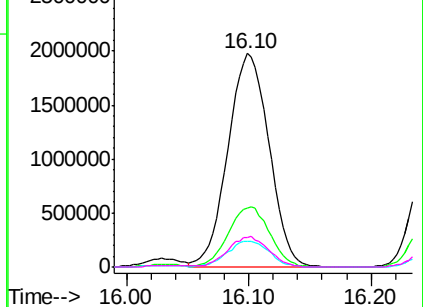


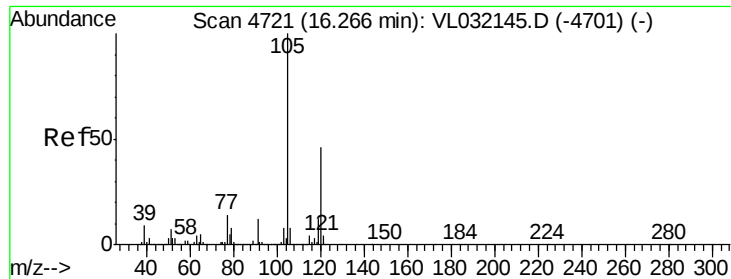
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.92 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4263805

Ion Ratio Lower Upper

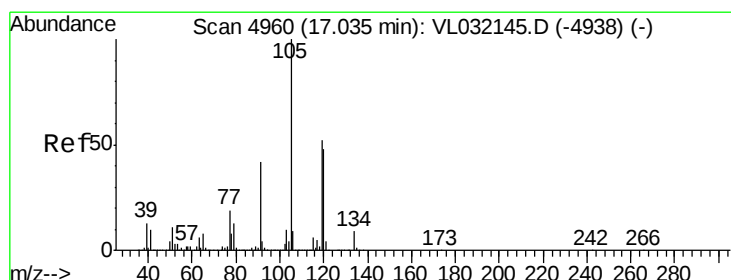
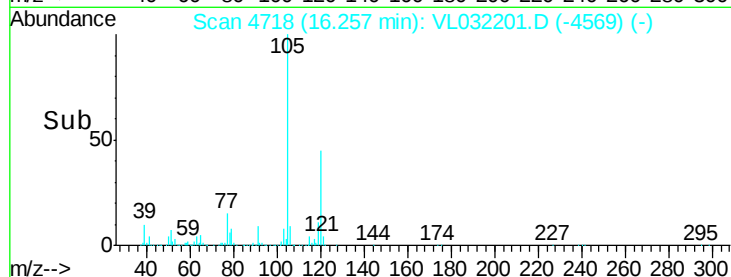
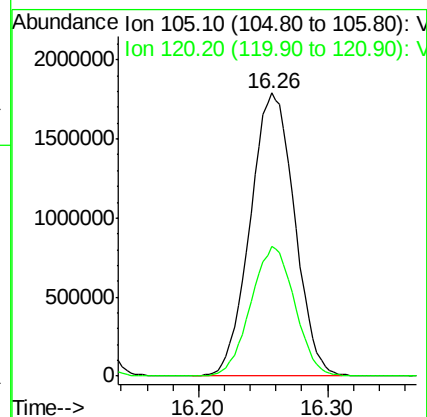
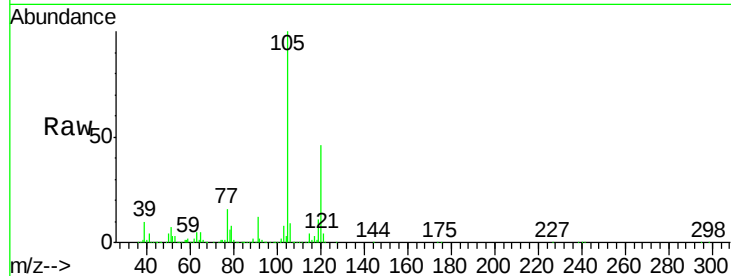
105 100

120 45.9 38.6 57.8

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 7.53 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Tgt Ion:105 Resp: 4094672

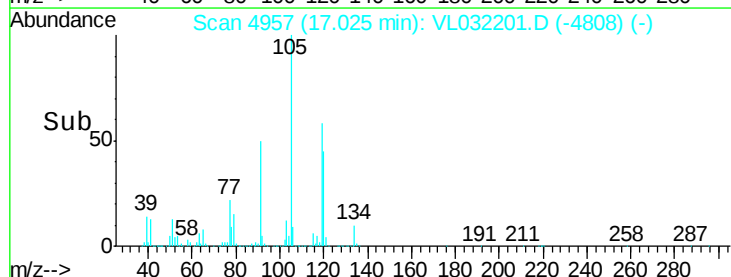
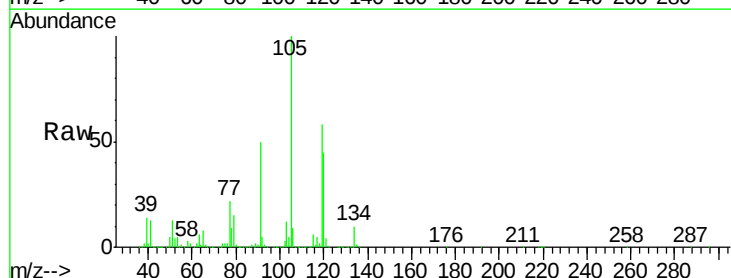
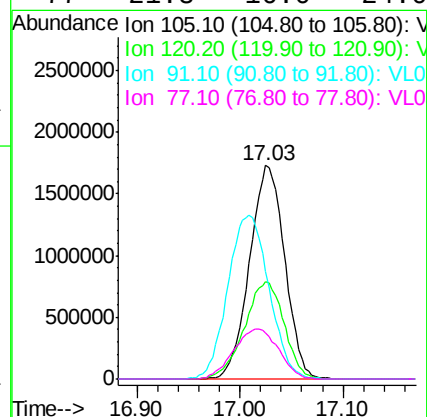
Ion Ratio Lower Upper

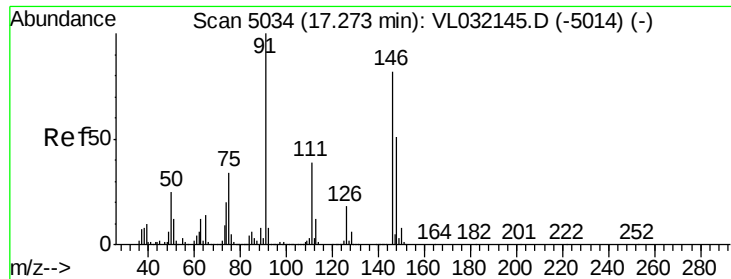
105 100

120 45.4 38.8 58.2

91 50.1 33.6 50.4

77 21.8 16.0 24.0





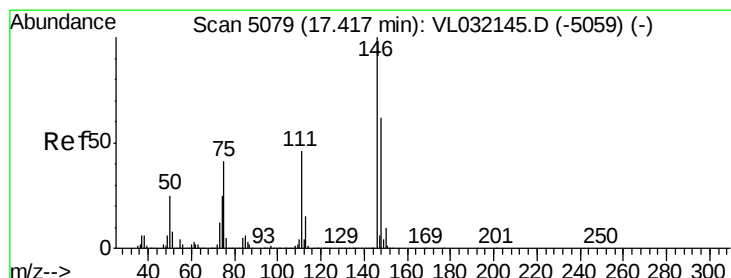
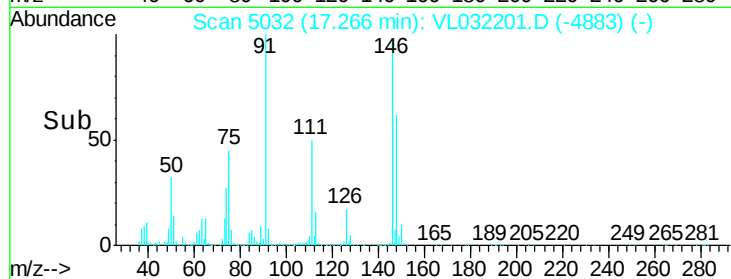
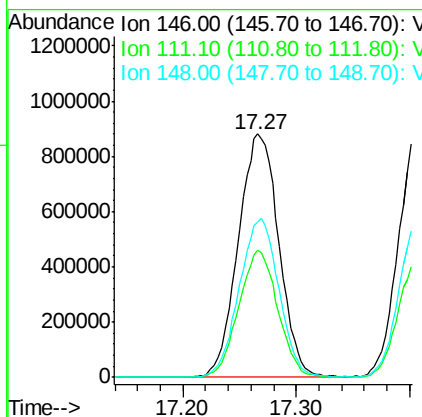
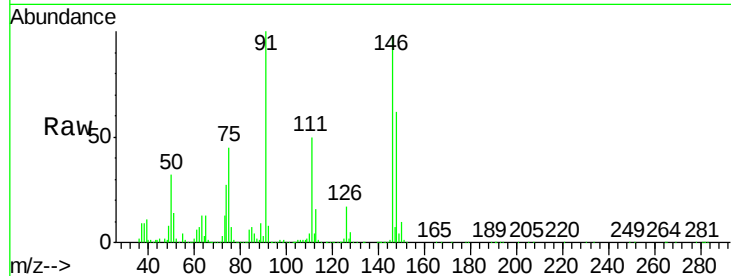
#75
 1,3-Dichlorobenzene
 Concen: 7.08 ppbv
 RT: 17.27 min Scan# 5032
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2190377
 Ion Ratio Lower Upper
 146 100
 111 50.5 22.9 68.8
 148 64.1 31.7 95.1

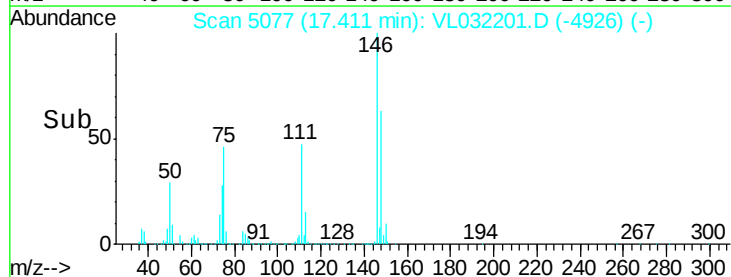
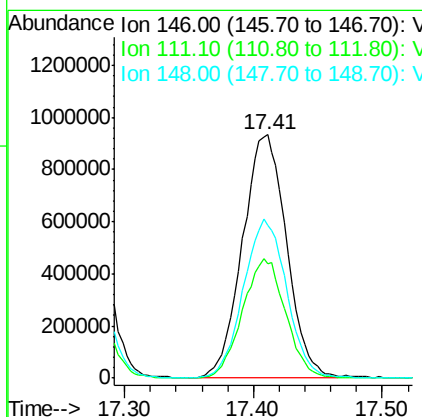
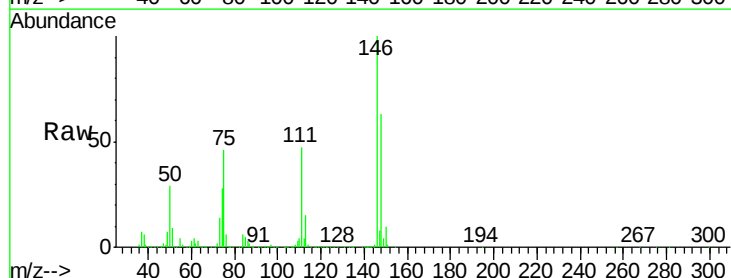
Manual Integrations
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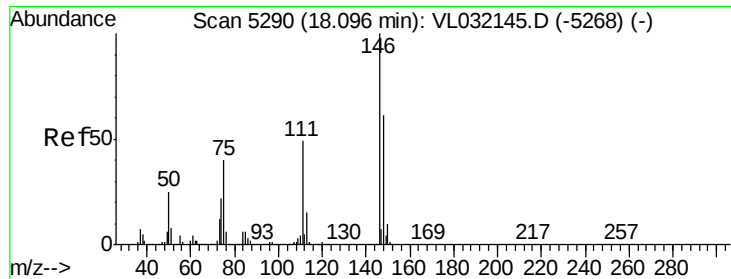
MMDadoda
 7/3/2018 5:17:27 PM



#76
 1,4-Dichlorobenzene
 Concen: 7.05 ppbv
 RT: 17.41 min Scan# 5077
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion:146 Resp: 2211223
 Ion Ratio Lower Upper
 146 100
 111 48.4 21.9 65.8
 148 64.9 32.1 96.5





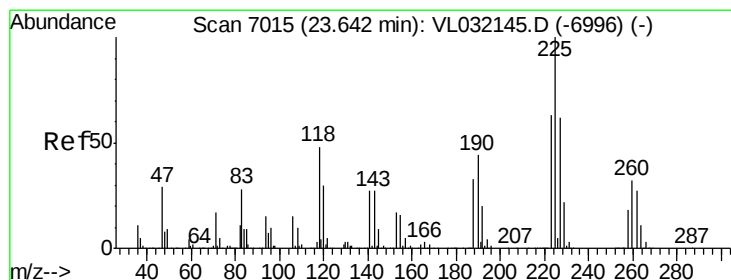
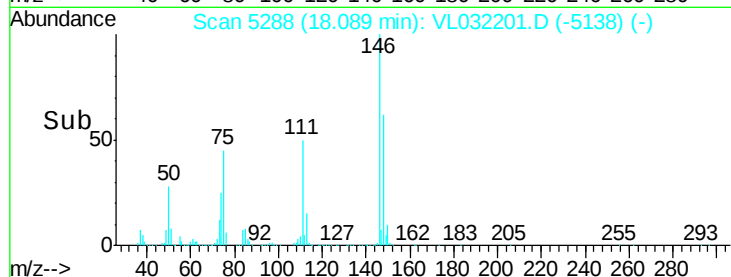
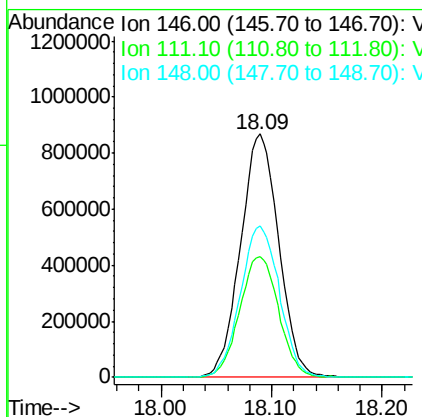
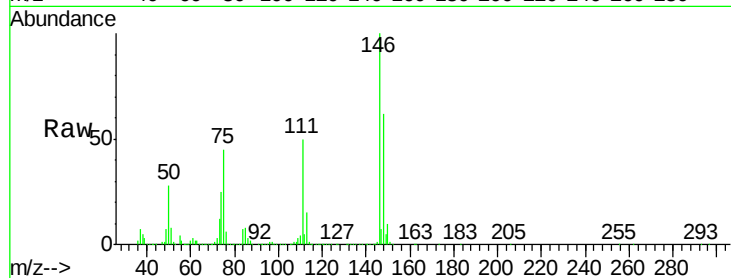
#77
 1,2-Dichlorobenzene
 Concen: 6.74 ppbv
 RT: 18.09 min Scan# 5288
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2083094
 Ion Ratio Lower Upper
 146 100
 111 51.0 23.4 70.3
 148 63.7 32.0 96.0

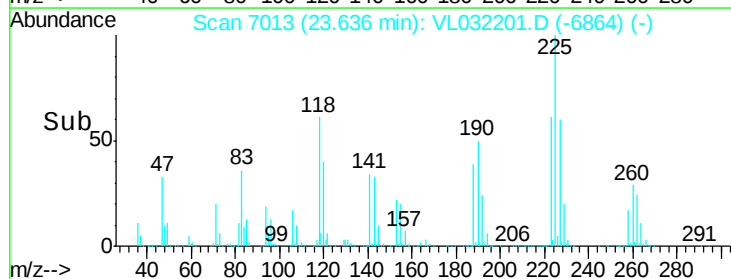
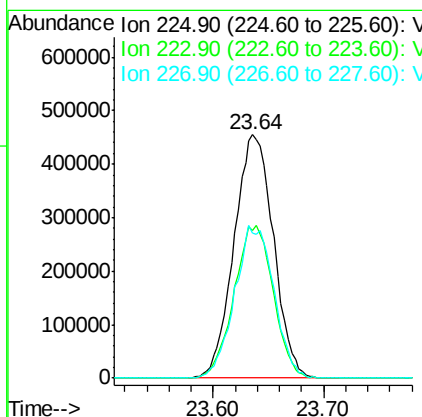
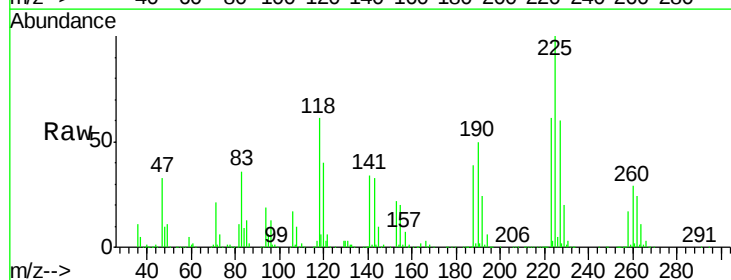
Manual Integrations
 APPROVED

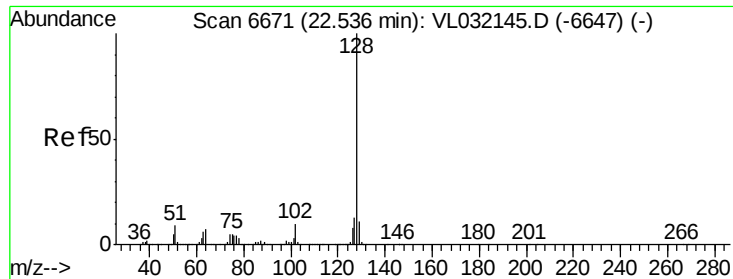
MMDadoda
 7/3/2018 5:17:27 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.46 ppbv
 RT: 23.64 min Scan# 7013
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Tgt Ion:225 Resp: 1125109
 Ion Ratio Lower Upper
 225 100
 223 62.5 51.0 76.4
 227 62.5 51.4 77.0





#79

Naphthalene

Concen: 6.73 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. -0.03 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3325307

Ion Ratio Lower Upper

128 100

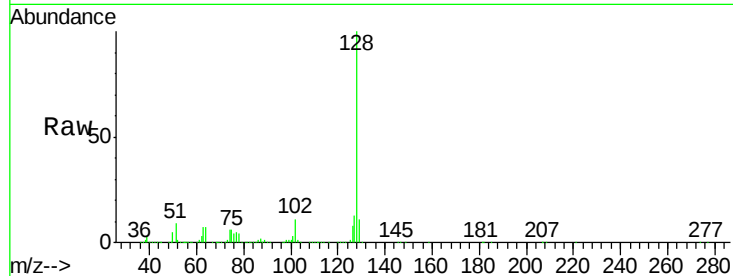
127 13.4 10.5 15.7

129 10.9 9.0 13.6

Manual Integrations
APPROVED

MMDadoda

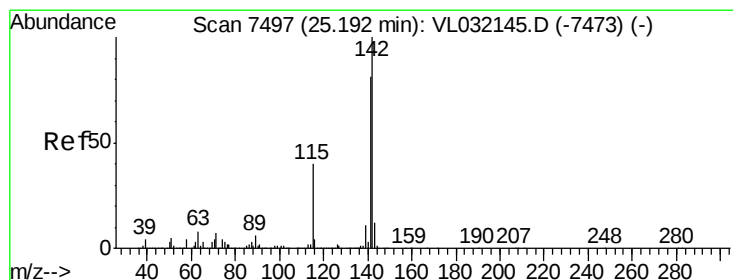
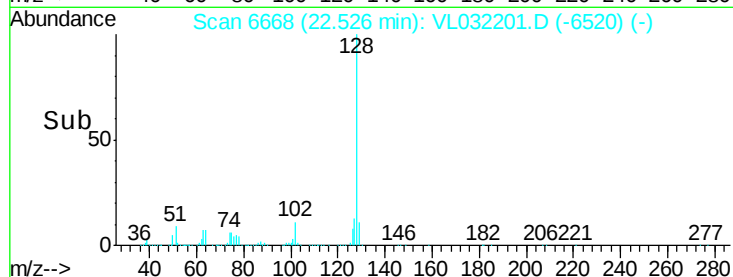
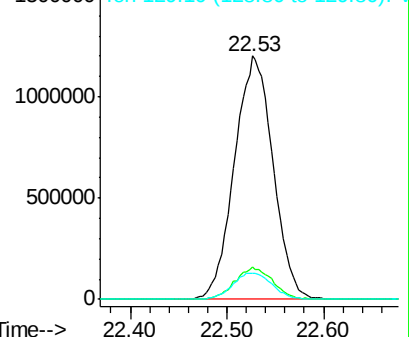
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 11.36 ppbv

RT: 25.19 min Scan# 7497

Delta R.T. -0.01 min

Lab File: VL032201.D

Acq: 3 Jul 2018 8:33

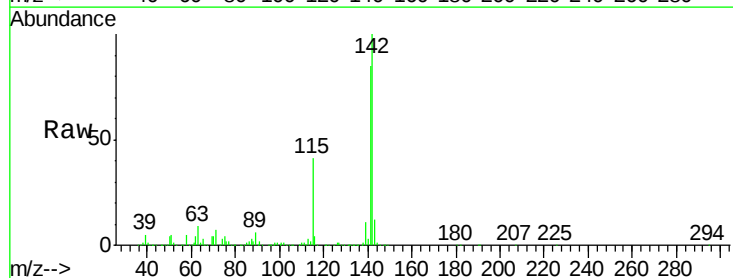
Tgt Ion:142 Resp: 2025245

Ion Ratio Lower Upper

142 100

141 83.5 65.8 98.6

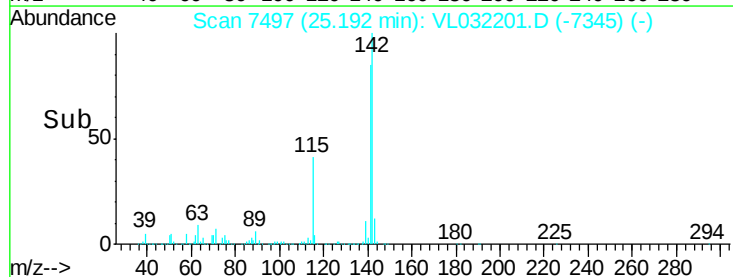
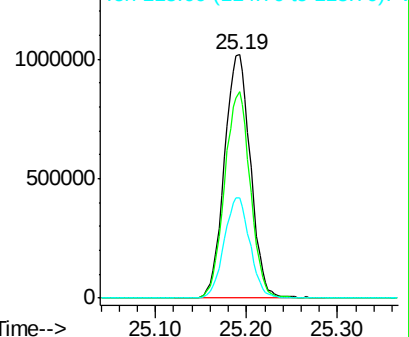
115 40.8 29.4 44.0

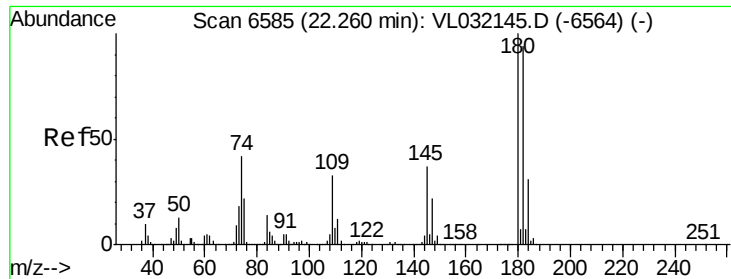


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.31 ppbv
 RT: 22.25 min Scan# 6583
 Delta R.T. -0.02 min
 Lab File: VL032201.D
 Acq: 3 Jul 2018 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.4
184	30.4	24.4	36.6

Manual Integrations
 APPROVED

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