

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031240.D
 Acq On : 14 Dec 2017 20:23
 Operator : SY/AP
 Sample : SSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:07:20 PM

Quant Time: Dec 15 06:09:44 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1552912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3971910	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4231100m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2982662	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	1800510	13.72	ppbv	100
3) Chlorodifluoromethane	3.12	51	1915808	10.85	ppbv	98
4) Chloromethane	3.28	50	983635	10.31	ppbv	97
5) Vinyl Chloride	3.40	62	990224	10.04	ppbv	98
6) Bromomethane	3.63	94	619455	10.60	ppbv	96
7) Chloroethane	3.71	64	376384	10.30	ppbv	98
8) Dichlorotetrafluoroethane	3.32	85	2160590	11.87	ppbv	97
9) Propene	3.14	41	871751	10.06	ppbv	98
10) Heptane	8.41	43	2472843	9.37	ppbv	100
11) Trichlorofluoromethane	4.13	101	2329593	10.80	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1434571	9.50	ppbv	96
13) Ethanol	3.77	45	197557	7.90	ppbv	99
14) Bromoethene	3.91	108	694705	10.70	ppbv	99
15) Acetone	4.02	43	1709397	8.34	ppbv	100
16) 1,3-Butadiene	3.47	39	875124	9.93	ppbv	96
17) tert-Butyl alcohol	4.49	59	894116	7.77	ppbv	99
18) 1,1-Dichloroethene	4.48	96	695472	10.28	ppbv	94
19) Isopropyl Alcohol	4.15	45	1197127	9.23	ppbv #	43
20) Methylene Chloride	4.54	84	650189	9.59	ppbv	97
21) Allyl Chloride	4.61	41	1125708	9.34	ppbv	97
22) trans-1,2-Dichloroethene	5.10	96	809035	9.72	ppbv	99
23) Vinyl Acetate	5.30	43	2711420	8.21	ppbv	98
24) 1,1-Dichloroethane	5.23	63	2230286	9.30	ppbv	99
25) Ethyl Acetate	5.92	43	3621287	8.65	ppbv	100
26) Hexane	5.93	57	1723416	8.68	ppbv	98
27) Carbon Disulfide	4.76	76	1810282	9.10	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	2142359	8.25	ppbv	98
29) Chloroform	6.00	83	2633505	9.82	ppbv	99
30) Cyclohexane	7.41	84	1485997	8.49	ppbv	98
31) cis-1,2-Dichloroethene	5.79	61	1663341	9.23	ppbv	98
32) 1,1,1-Trichloroethane	6.78	97	2571765	8.97	ppbv	99
34) 2-Butanone	5.47	43	2556187	9.11	ppbv	99
35) Carbon Tetrachloride	7.30	117	2607385	9.16	ppbv	99
36) Benzene	7.16	78	3599173	8.55	ppbv	99
37) 1,2-Dichloroethane	6.57	62	2160587	9.30	ppbv	99
38) Trichloroethene	8.12	130	1416045	8.62	ppbv	98
39) 1,2-Dichloropropane	7.90	63	1347050	9.05	ppbv	99
40) 1,4-Dioxane	8.12	88	590485	10.99	ppbv #	91
41) Tetrahydrofuran	6.30	42	1486697	9.42	ppbv	100
42) Bromodichloromethane	8.08	83	2739395	10.01	ppbv	98
43) Methyl Methacrylate	8.30	69	1372535	9.74	ppbv	98

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Manual Integrations
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Quant Time: Dec 15 06:09:44 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.15	57	5819981	9.15	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	1889230	9.80	ppbv	99
46) cis-1,3-Dichloropropene	9.00	75	2337977	9.64	ppbv	98
47) 1,1,2-Trichloroethane	9.78	97	1518195	9.83	ppbv	99
48) Dibromochloromethane	10.62	129	2418714	10.03	ppbv	100
49) Bromoform	13.38	173	1579397	8.88	ppbv	100
50) 4-Methyl-2-Pentanone	9.03	43	3275095	9.54	ppbv	99
51) 2-Hexanone	10.44	43	3204563	9.78	ppbv #	99
52) Tetrachloroethene	11.55	164	1350538	8.70	ppbv	94
53) Toluene	10.12	91	4385584	9.60	ppbv	99
54) 1,2-Dibromoethane	10.93	107	2303114	9.84	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.45	131	1634370	8.66	ppbv	95
57) Chlorobenzene	12.48	112	3353839	8.50	ppbv	98
58) Ethyl Benzene	13.04	91	5561818	7.96	ppbv	99
59) m/p-Xylene	13.32	91	8766925m	15.68	ppbv	
60) o-Xylene	14.02	91	4369828	7.75	ppbv	100
61) Styrene	13.86	104	1266793	7.83	ppbv	99
62) Isopropylbenzene	15.00	105	5706557	7.72	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	2683925	7.10	ppbv	99
64) n-propylbenzene	15.89	120	1510825	7.70	ppbv	96
65) tert-Butylbenzene	17.08	119	4883471	7.46	ppbv	100
66) Benzyl Chloride	17.33	91	342207	4.85	ppbv	97
67) sec-Butylbenzene	17.63	105	6855571	7.61	ppbv	99
69) p-Isopropyltoluene	17.98	119	5636282	7.51	ppbv	99
70) n-Butylbenzene	18.88	91	5703492	7.88	ppbv	99
71) 2-Chlorotoluene	15.79	91	4220160	7.69	ppbv	100
72) 4-Ethyltoluene	16.17	105	4781271	7.74	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	4188145	7.62	ppbv	100
74) 1,2,4-Trimethylbenzene	17.10	105	4315653	7.46	ppbv #	94
75) 1,3-Dichlorobenzene	17.34	146	2716409	7.41	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	2759180	7.45	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	2677893	7.48	ppbv	98
78) Hexachloro-1,3-Butadiene	23.70	225	1372411	16.68	ppbv	99
79) Naphthalene	22.61	128	4249851	9.08	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	1250323	7.18	ppbv	98
81) 1,2,4-Trichlorobenzene	22.33	180	1912244	8.78	ppbv	100

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

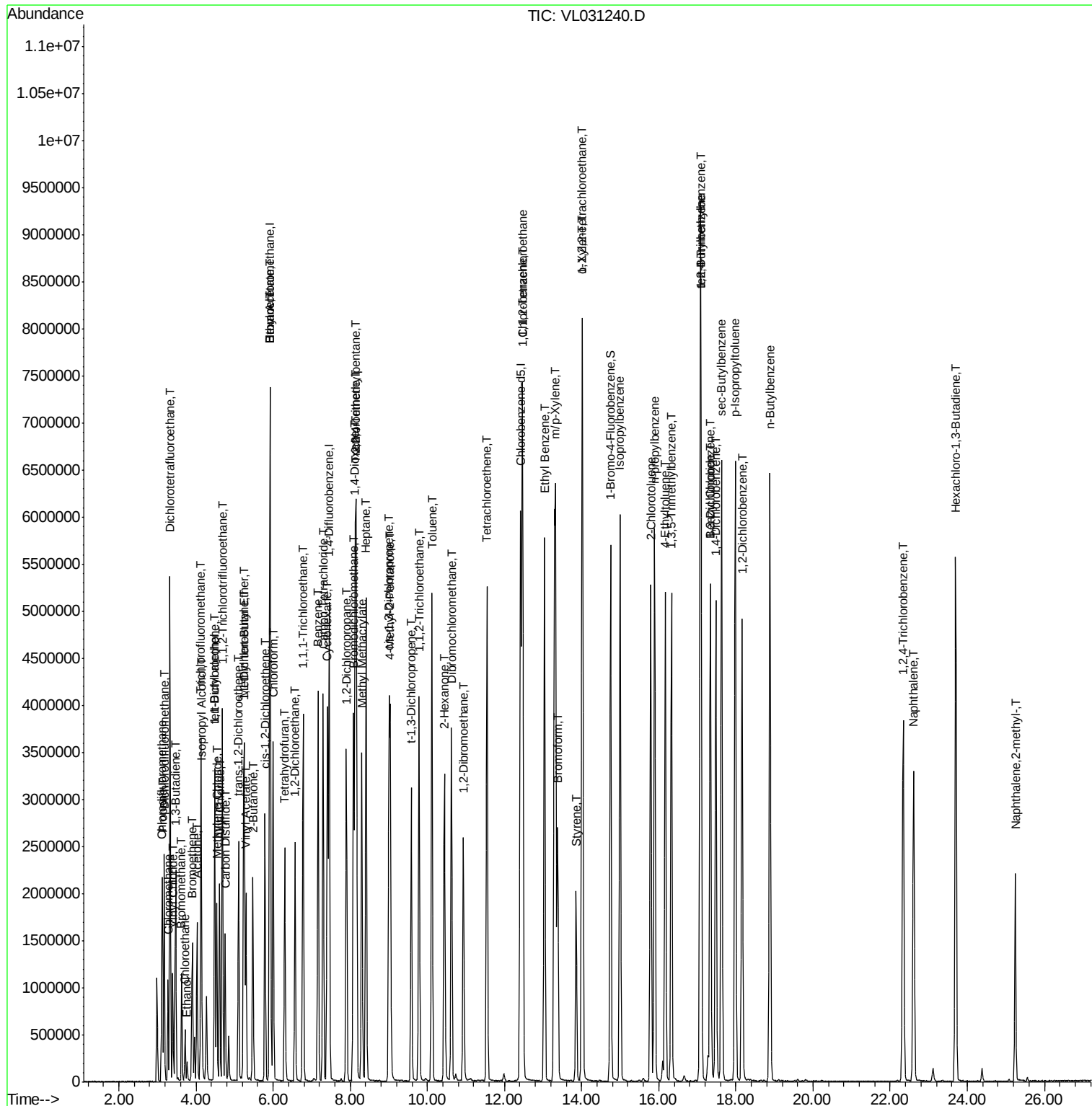
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Acq On    : 14 Dec 2017   20:23  
Operator  : SY/AP  
Sample    : SSTDCCC010  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
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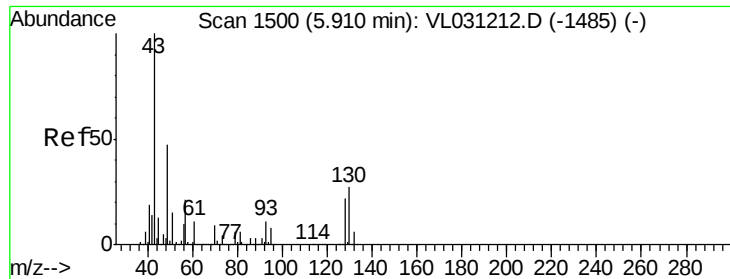
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Manual Integrations APPROVED

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QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1552912

Ion Ratio Lower Upper

49 100

128 48.5 23.2 69.5

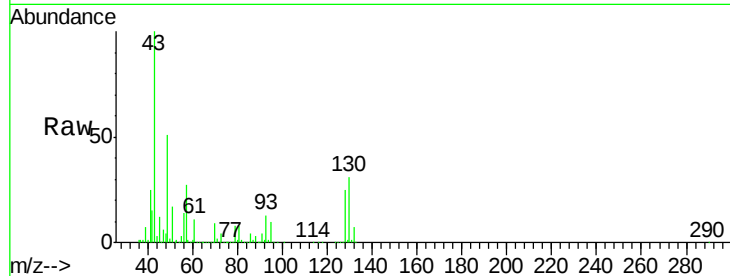
130 61.8 29.6 88.8

Manual Integrations

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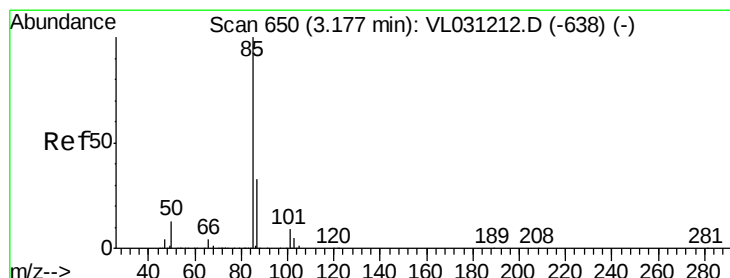
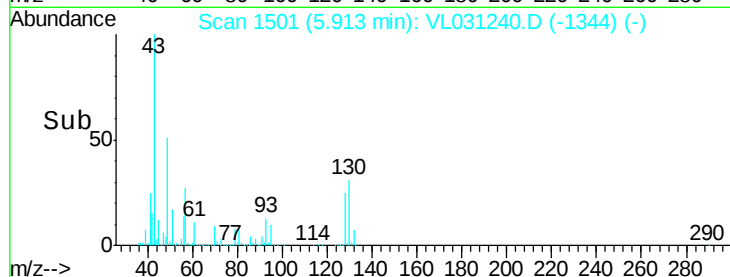
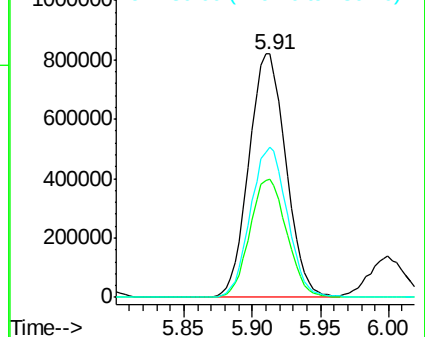
12/15/2017 4:07:20 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 13.72 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031240.D

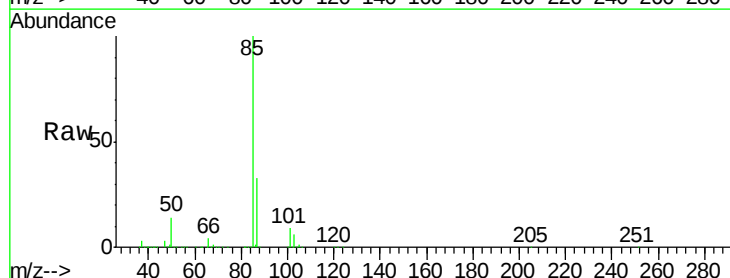
Acq: 14 Dec 2017 20:23

Tgt Ion: 85 Resp: 1800510

Ion Ratio Lower Upper

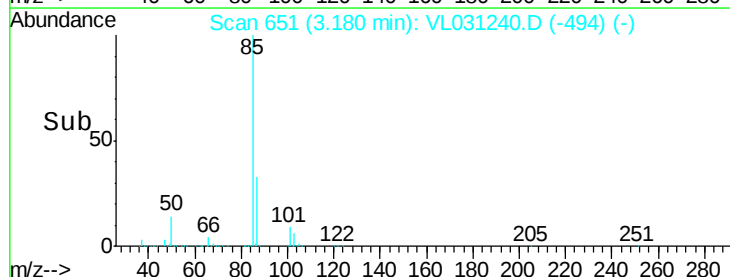
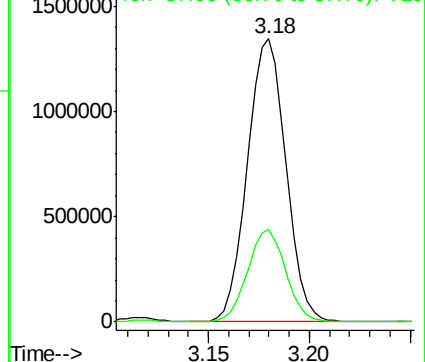
85 100

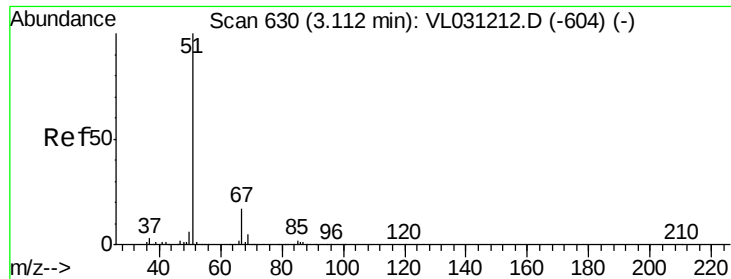
87 33.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.85 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1915808

Ion Ratio Lower Upper

51 100

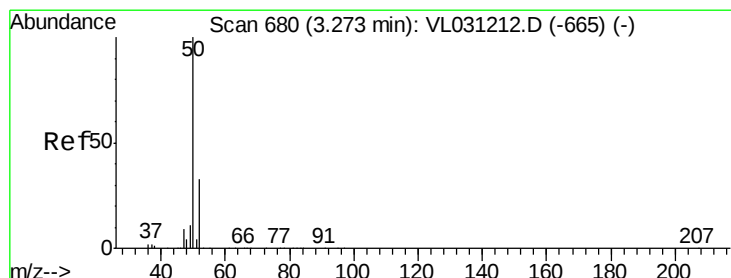
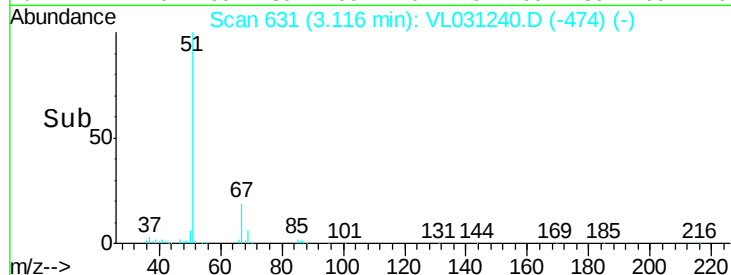
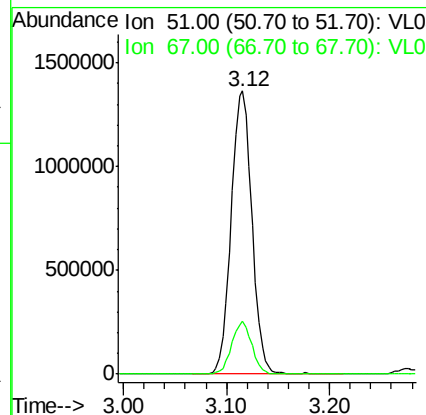
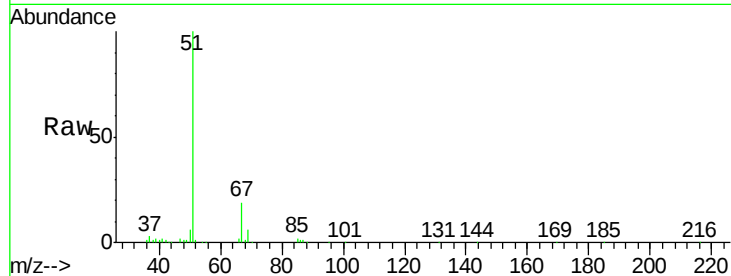
67 18.2 13.8 20.6

Manual Integrations

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#4

Chloromethane

Concen: 10.31 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031240.D

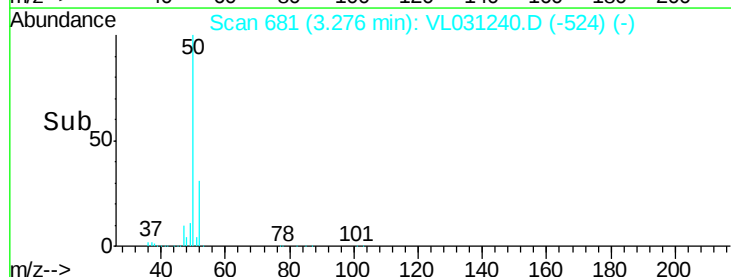
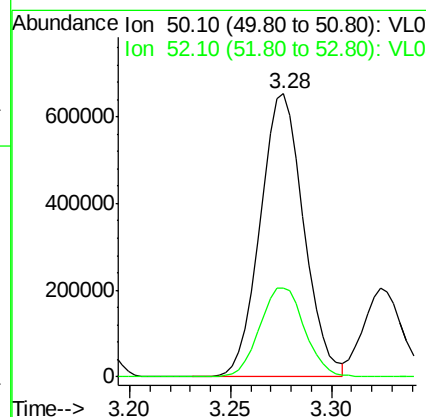
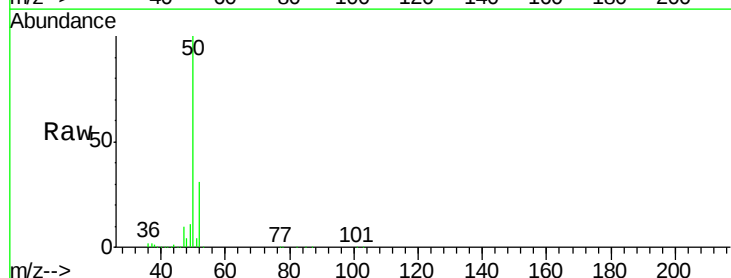
Acq: 14 Dec 2017 20:23

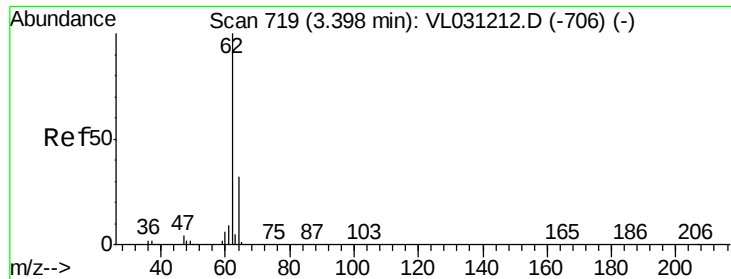
Tgt Ion: 50 Resp: 983635

Ion Ratio Lower Upper

50 100

52 31.4 26.5 39.7





#5

Vinyl Chloride

Concen: 10.04 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 990224

Ion Ratio Lower Upper

62 100

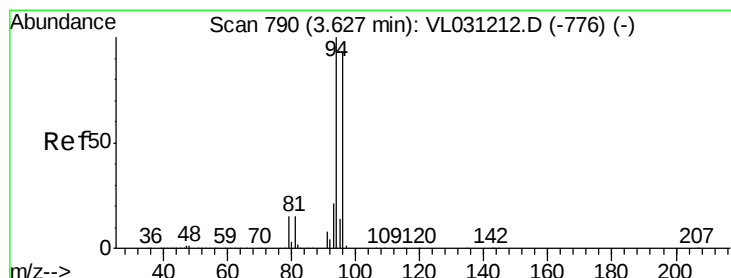
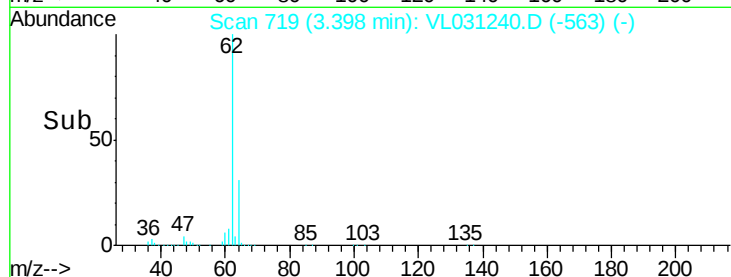
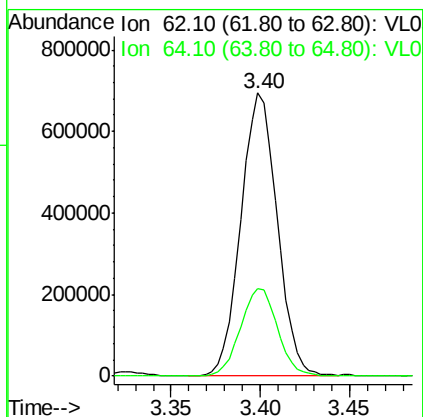
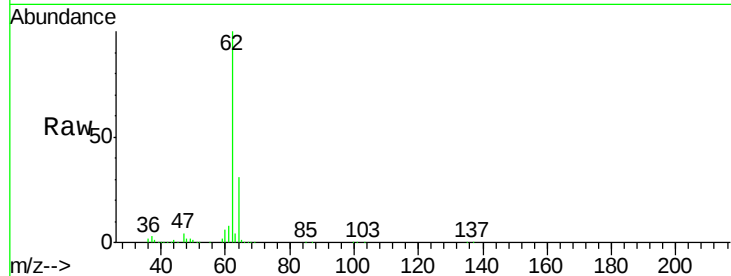
64 31.0 25.9 38.9

Manual Integrations

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#6

Bromomethane

Concen: 10.60 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031240.D

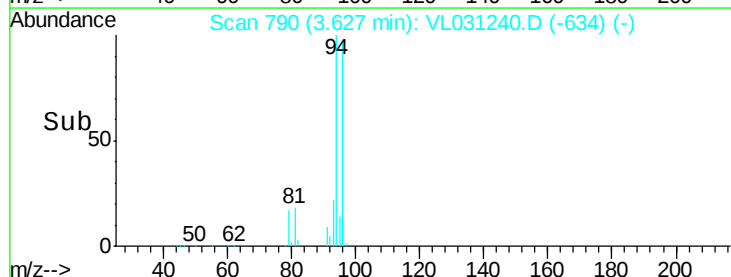
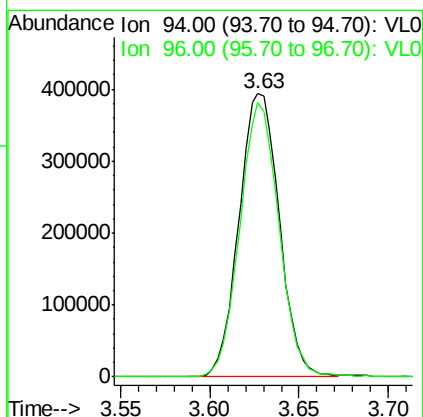
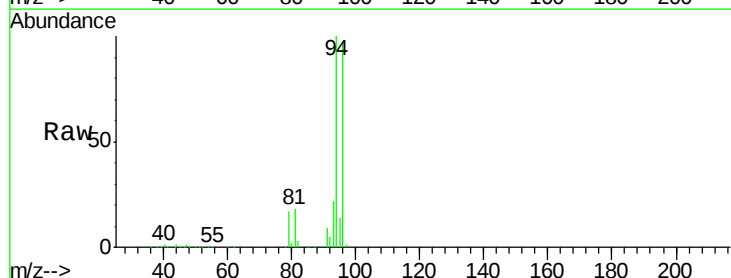
Acq: 14 Dec 2017 20:23

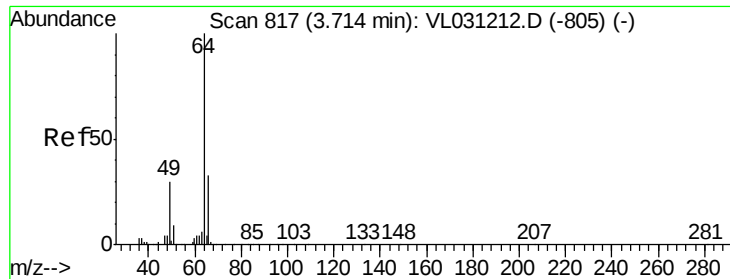
Tgt Ion: 94 Resp: 619455

Ion Ratio Lower Upper

94 100

96 96.8 74.4 111.6





#7

Chloroethane

Concen: 10.30 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 376384

Ion Ratio Lower Upper

64 100

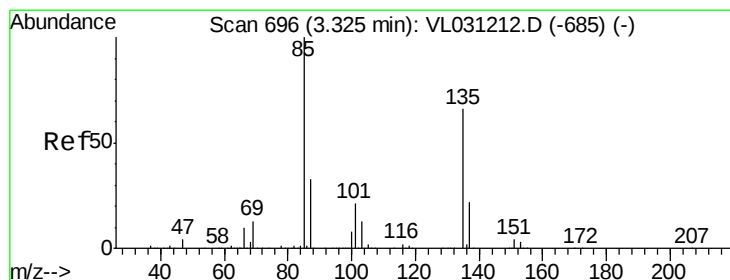
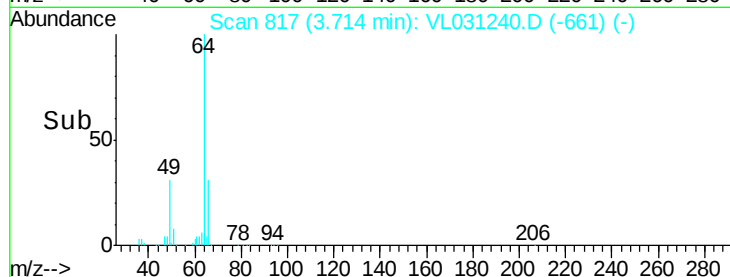
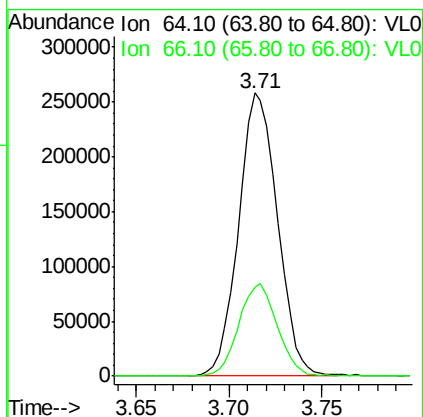
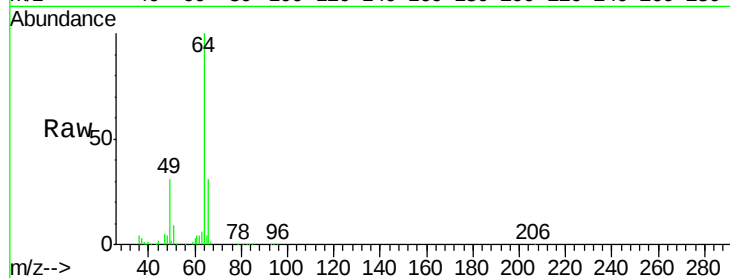
66 31.4 26.2 39.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 11.87 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031240.D

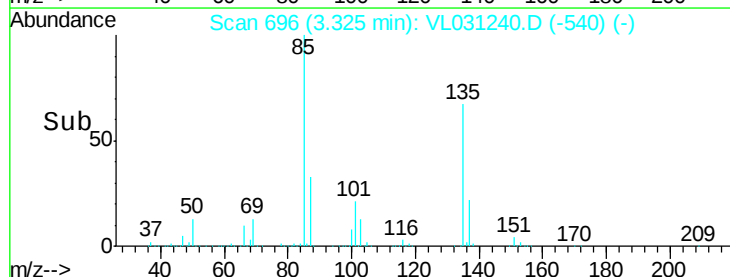
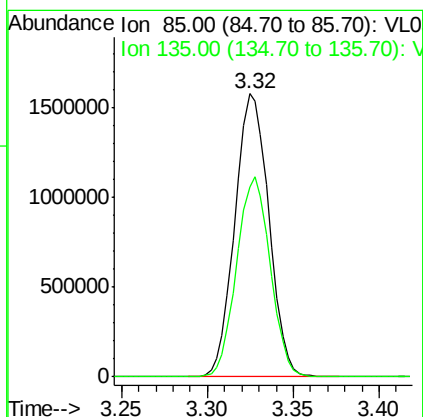
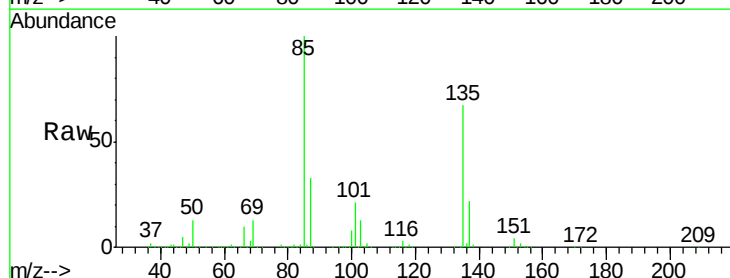
Acq: 14 Dec 2017 20:23

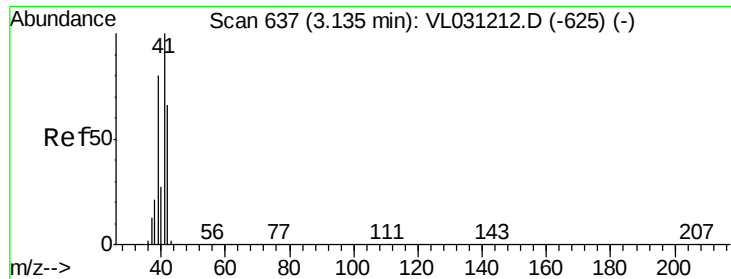
Tgt Ion: 85 Resp: 2160590

Ion Ratio Lower Upper

85 100

135 70.1 54.0 81.0





#9

Propene

Concen: 10.06 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 871751

Ion Ratio Lower Upper

41 100

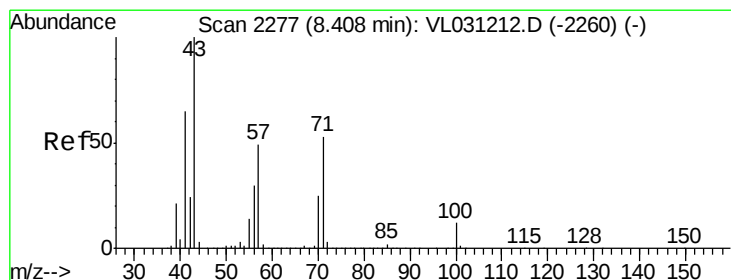
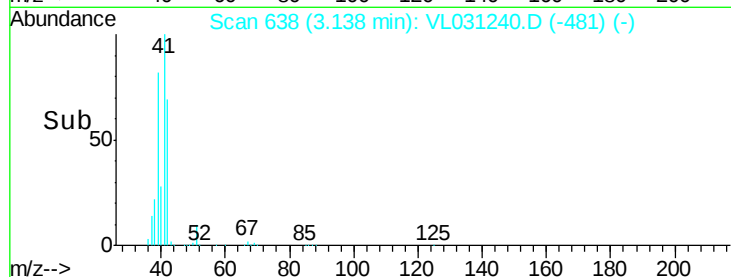
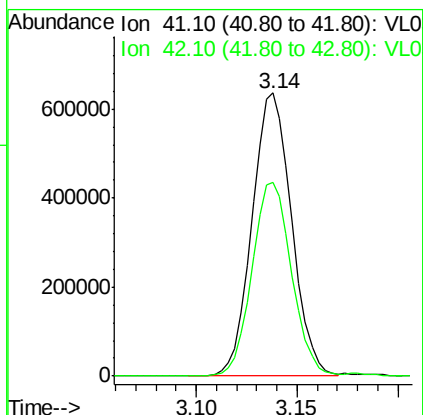
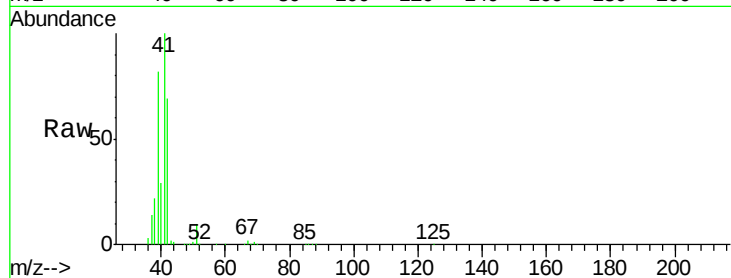
42 69.2 54.3 81.5

Manual Integrations

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#10

Heptane

Concen: 9.37 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031240.D

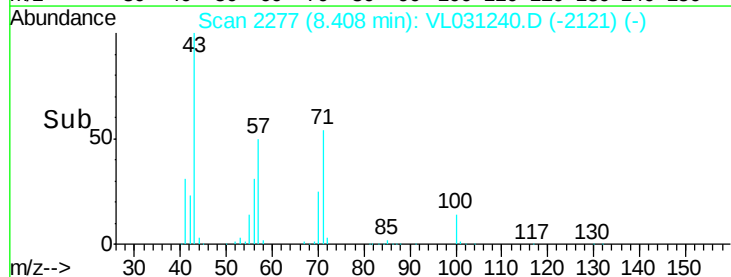
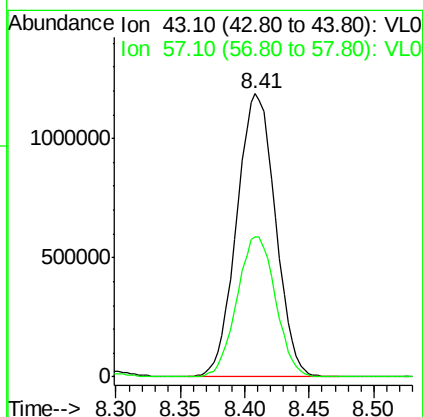
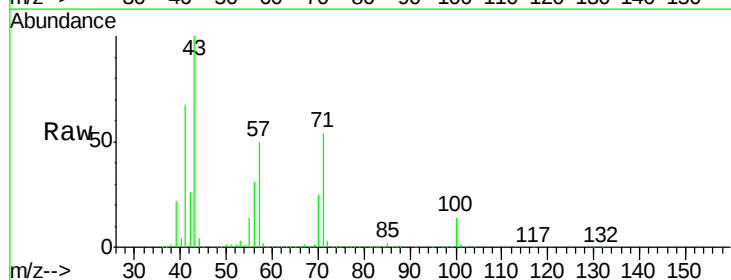
Acq: 14 Dec 2017 20:23

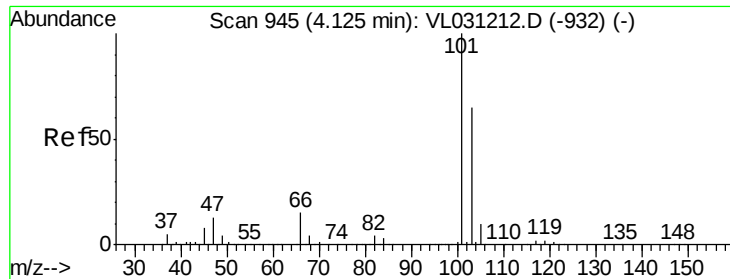
Tgt Ion: 43 Resp: 2472843

Ion Ratio Lower Upper

43 100

57 49.6 39.8 59.8





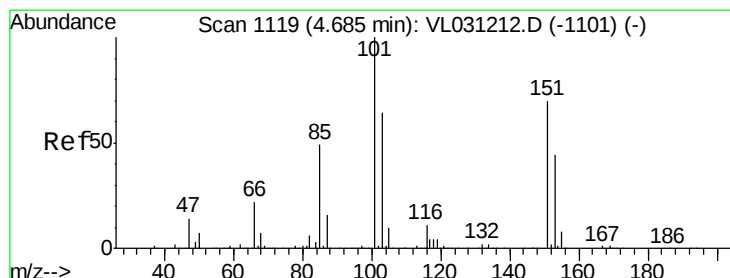
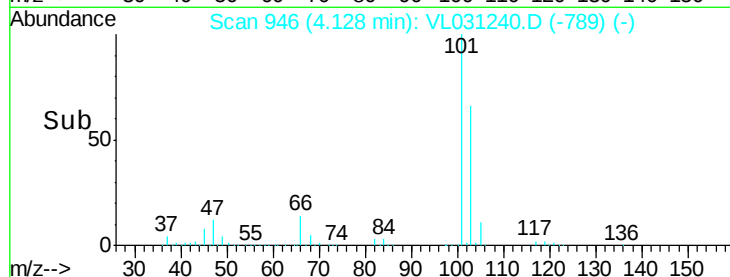
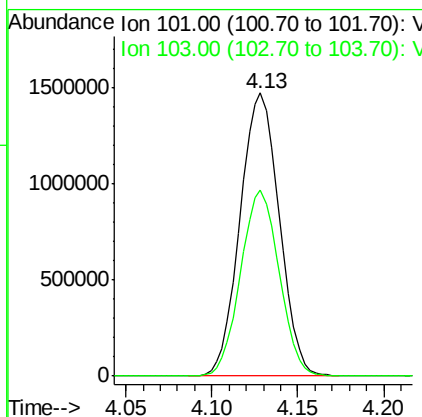
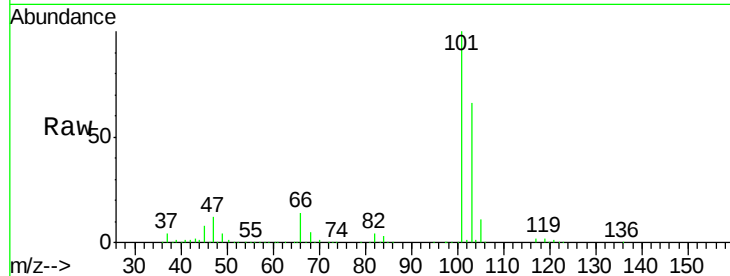
#11
 Trichlorofluoromethane
 Concen: 10.80 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2329593
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.8 77.8

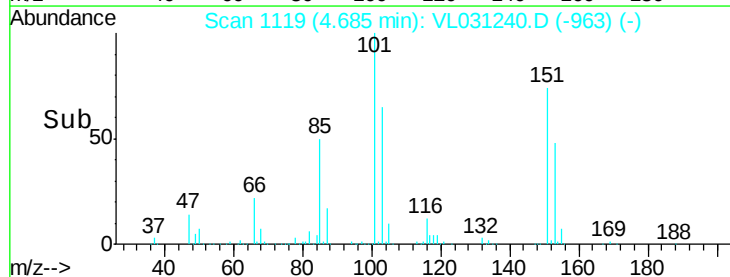
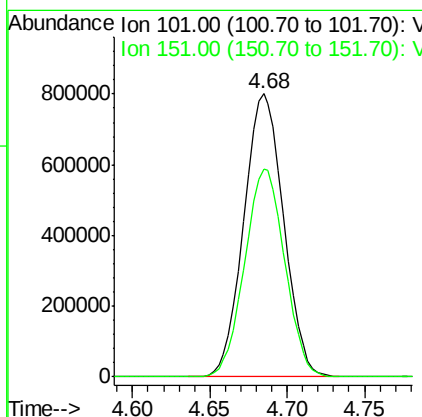
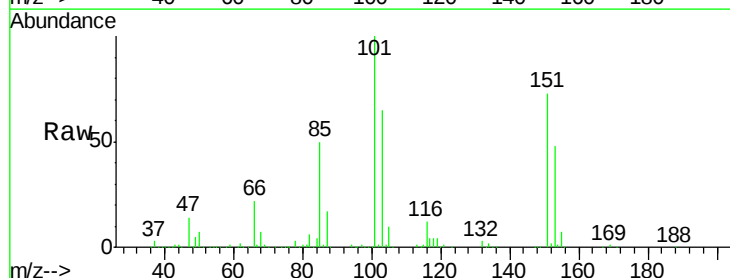
Manual Integrations
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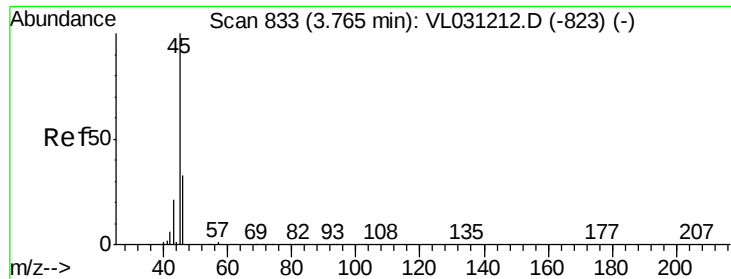
MMDadoda
 12/15/2017 4:07:20 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.50 ppbv
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion:101 Resp: 1434571
 Ion Ratio Lower Upper
 101 100
 151 74.1 56.5 84.7





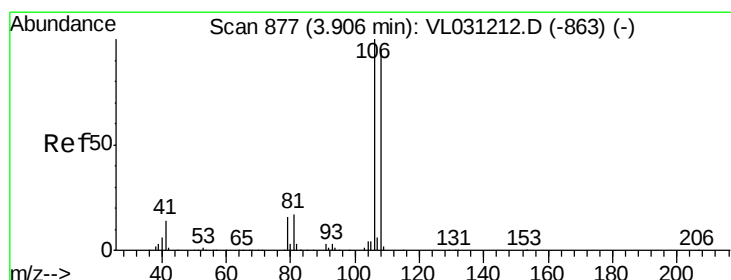
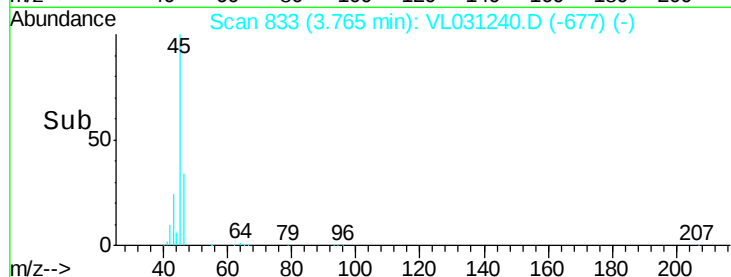
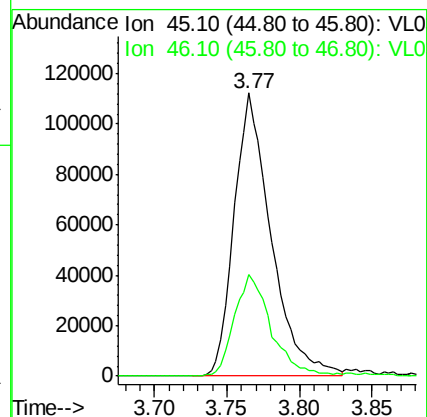
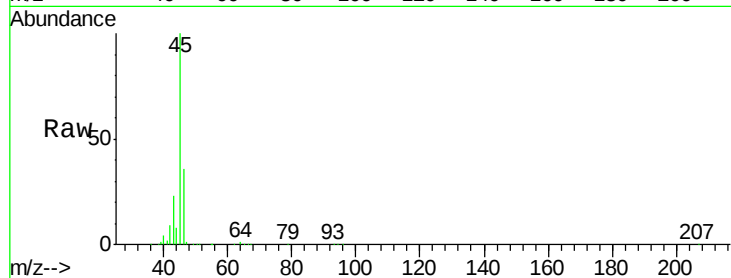
#13
Ethanol
Concen: 7.90 ppbv
RT: 3.77 min Scan# 833
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	197557
Ion Ratio	100	Lower	Upper
46	37.0	14.6	58.4

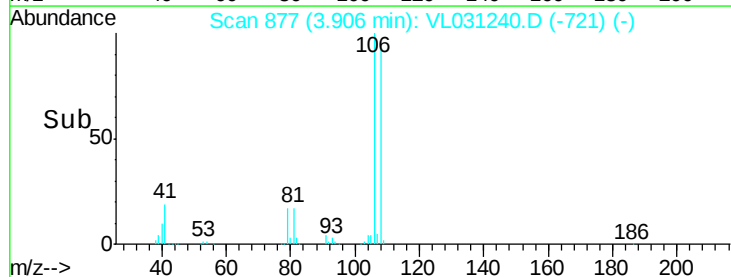
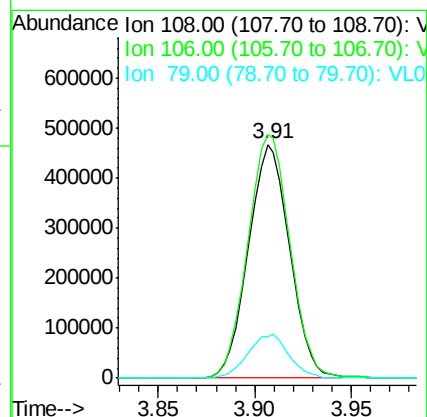
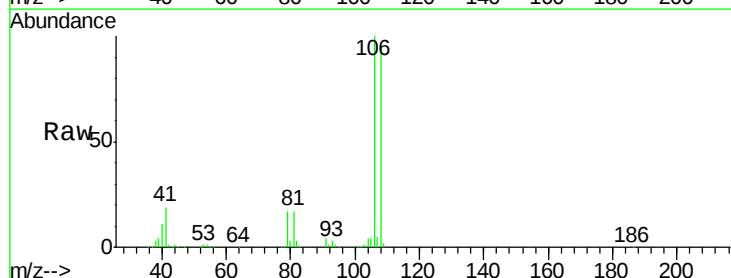
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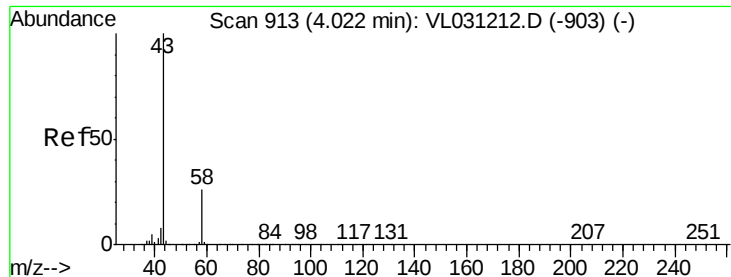
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#14
Bromoethene
Concen: 10.70 ppbv
RT: 3.91 min Scan# 877
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	108	Resp	694705
Ion Ratio	100	Lower	Upper
106	106.9	86.5	129.7
79	18.9	14.2	21.4





#15

Acetone

Concen: 8.34 ppbv

RT: 4.02 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1709397

Ion Ratio Lower Upper

43 100

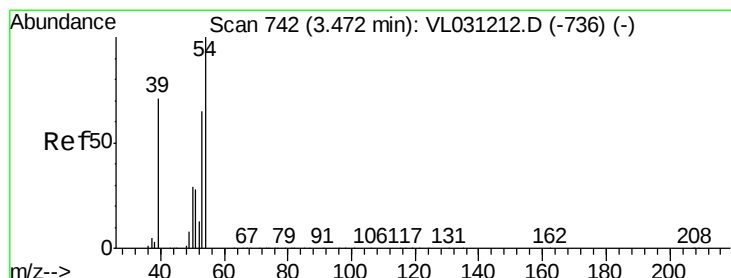
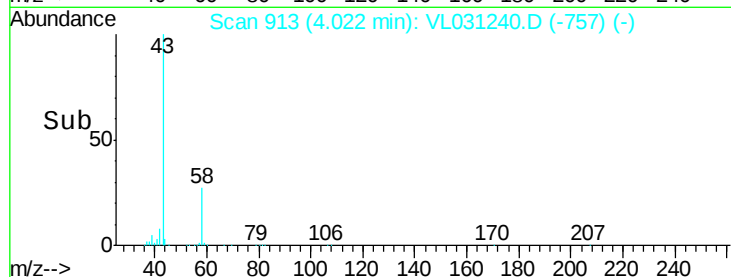
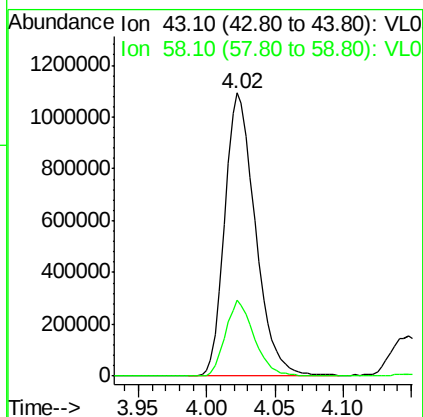
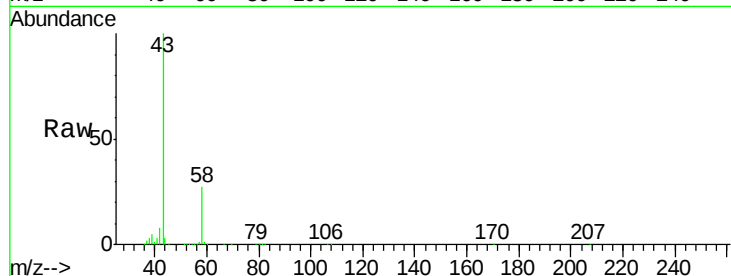
58 25.3 20.3 30.5

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#16

1,3-Butadiene

Concen: 9.93 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031240.D

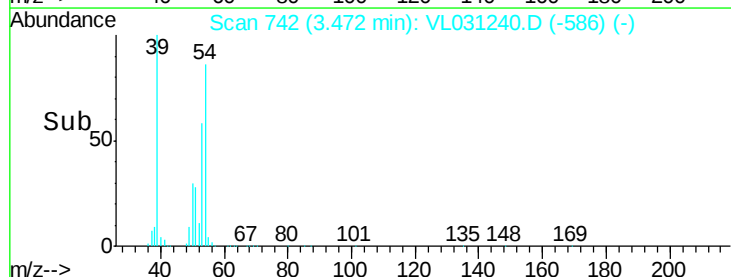
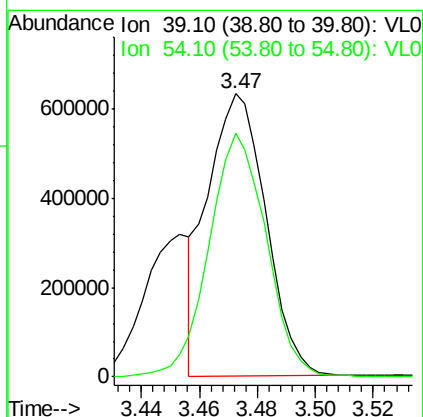
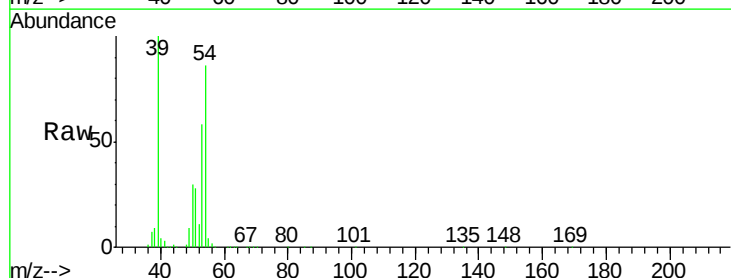
Acq: 14 Dec 2017 20:23

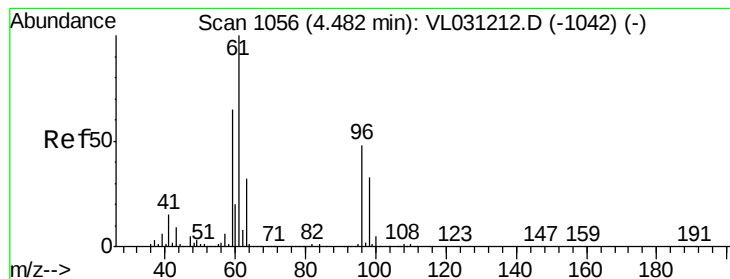
Tgt Ion: 39 Resp: 875124

Ion Ratio Lower Upper

39 100

54 86.2 66.4 99.6





#17

tert-Butyl alcohol

Concen: 7.77 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 894116

Ion Ratio Lower Upper

59 100

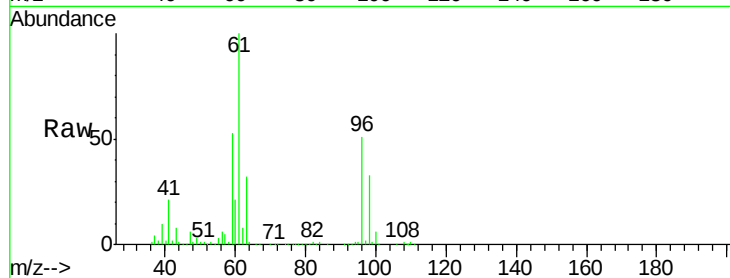
57 10.4 8.2 12.2

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.49

400000

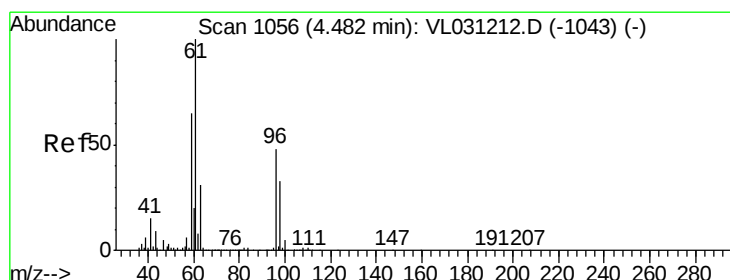
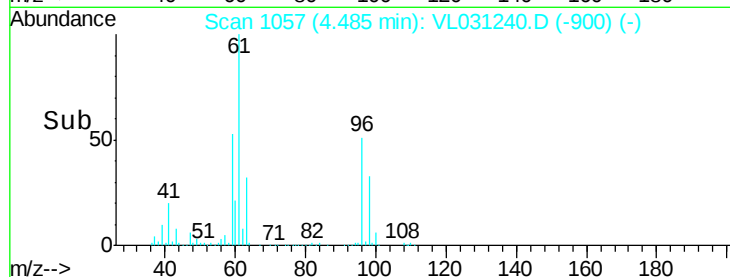
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.28 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

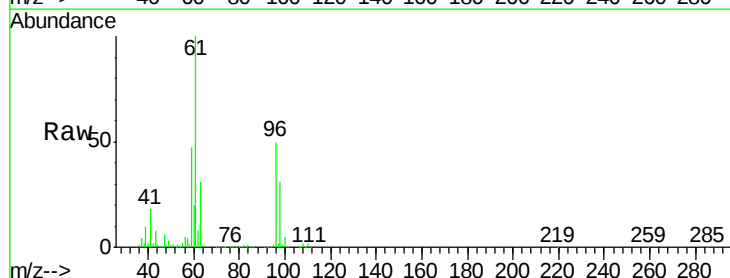
Tgt Ion: 96 Resp: 695472

Ion Ratio Lower Upper

96 100

61 200.6 166.8 250.2

98 62.2 55.0 82.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1200000

1000000

800000

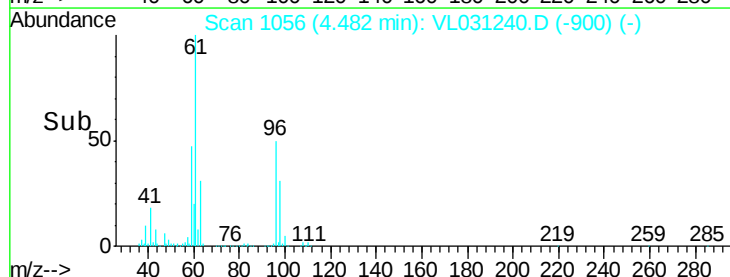
600000

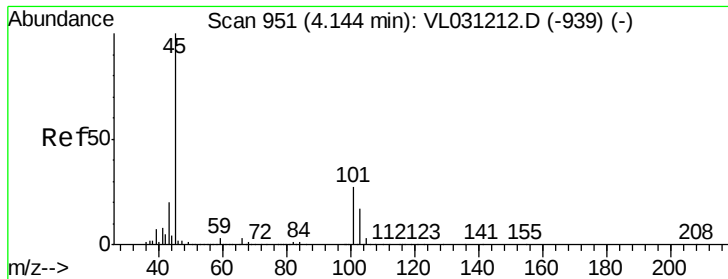
400000

200000

0

Time-->





#19

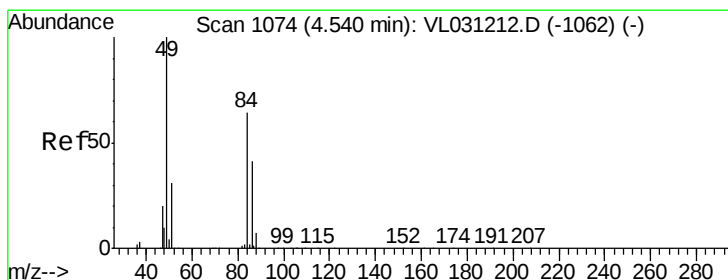
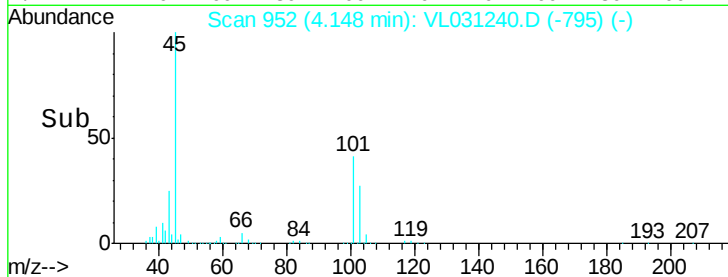
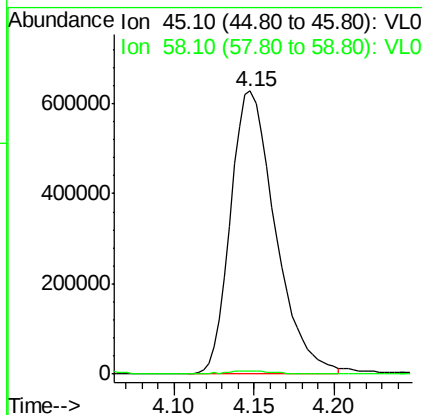
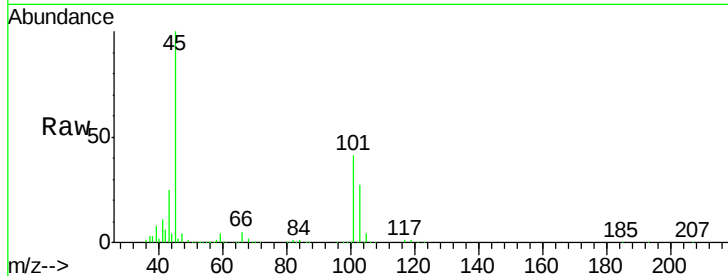
Isopropyl Alcohol
 Concen: 9.23 ppbv
 RT: 4.15 min Scan# 952
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1197127
 Ion Ratio Lower Upper
 45 100
 58 1.4 27.2 40.8#

Manual Integrations
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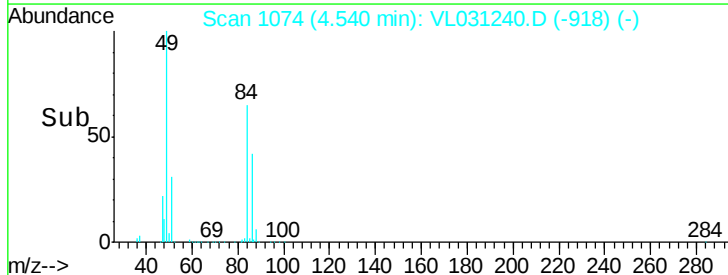
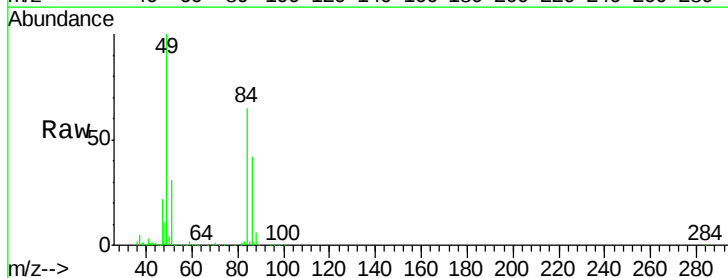
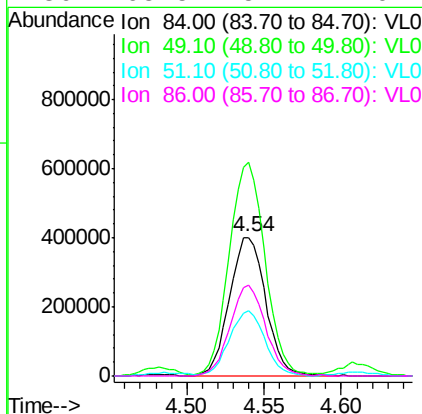
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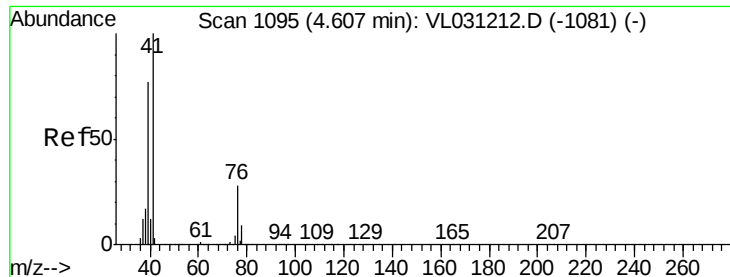


#20

Methylene Chloride
 Concen: 9.59 ppbv
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion: 84 Resp: 650189
 Ion Ratio Lower Upper
 84 100
 49 153.1 125.8 188.6
 51 46.1 39.3 58.9
 86 65.5 51.1 76.7





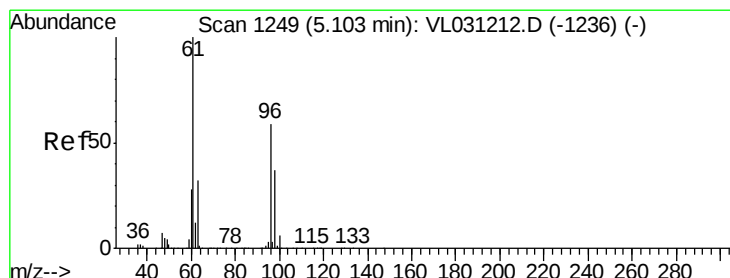
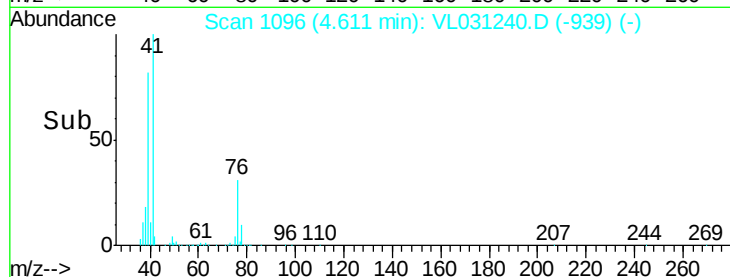
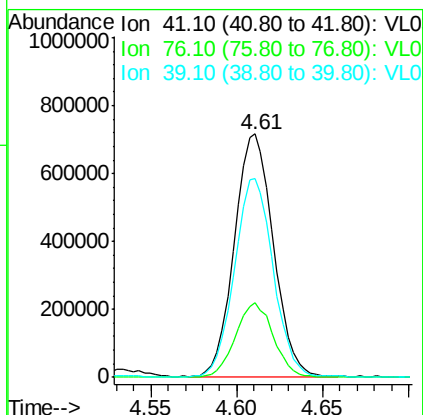
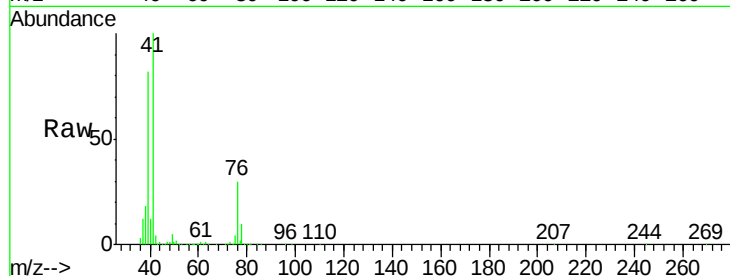
#21
Allvl Chloride
Concen: 9.34 ppbv
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 41 Resp: 1125708
Ion Ratio Lower Upper
41 100
76 30.1 22.9 34.3
39 81.5 62.6 93.8

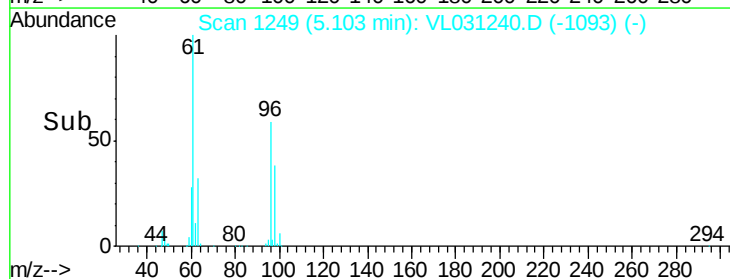
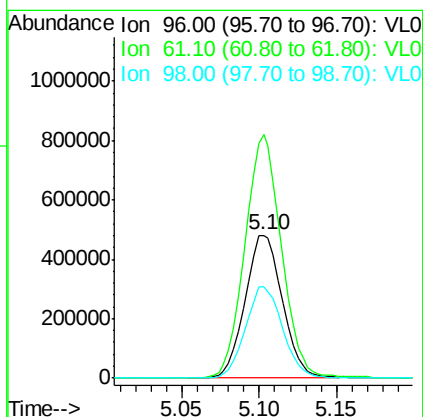
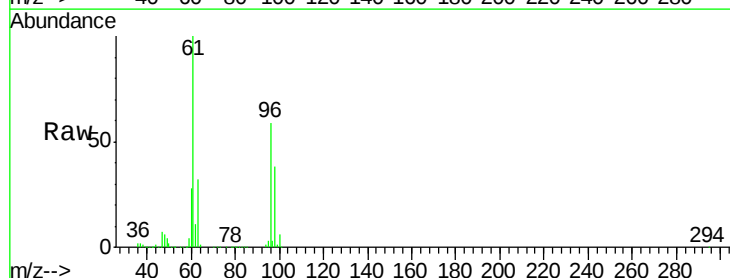
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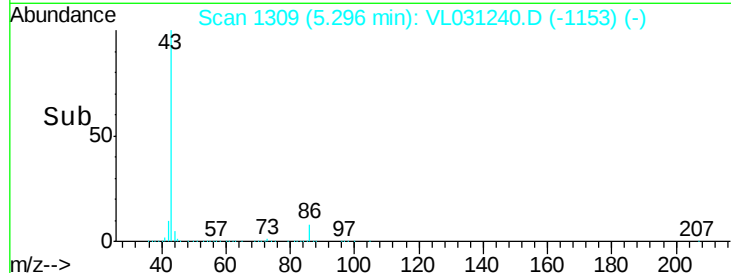
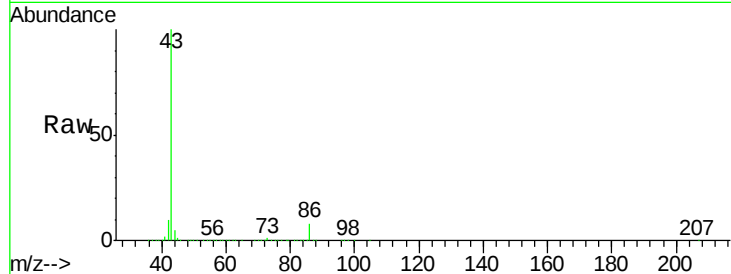
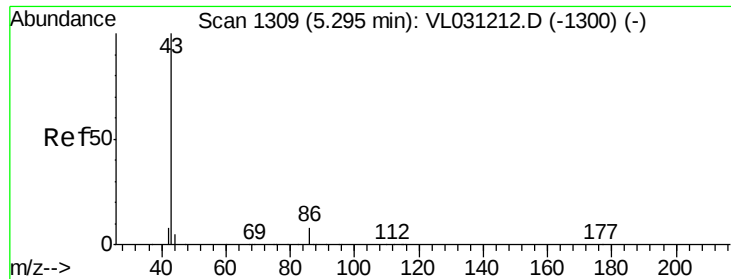
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#22
trans-1,2-Dichloroethene
Concen: 9.72 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

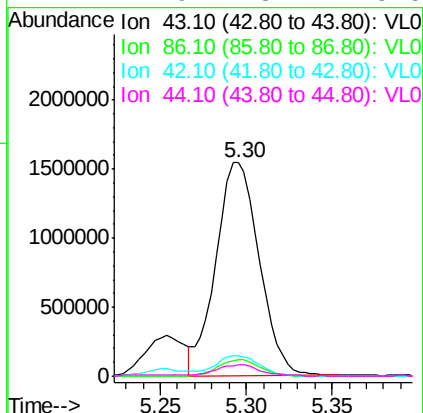
Tgt Ion: 96 Resp: 809035
Ion Ratio Lower Upper
96 100
61 170.7 135.0 202.4
98 64.1 50.5 75.7





#23
 Vinyl Acetate
 Concen: 8.21 ppbv
 RT: 5.30 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

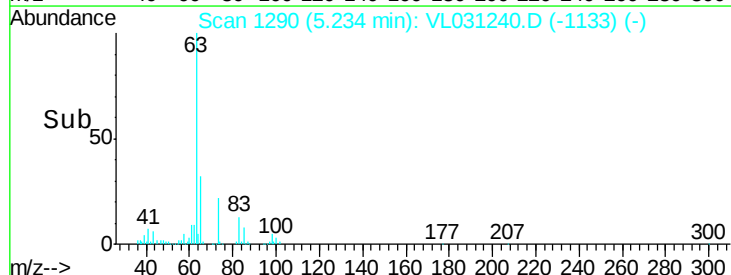
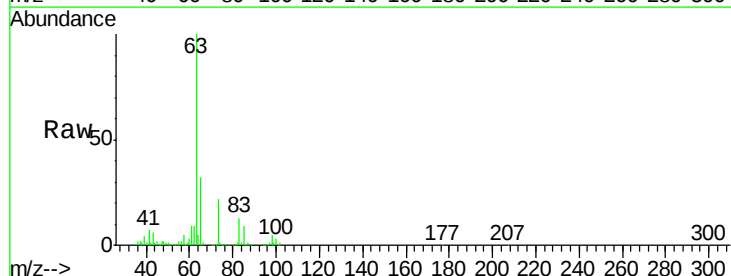
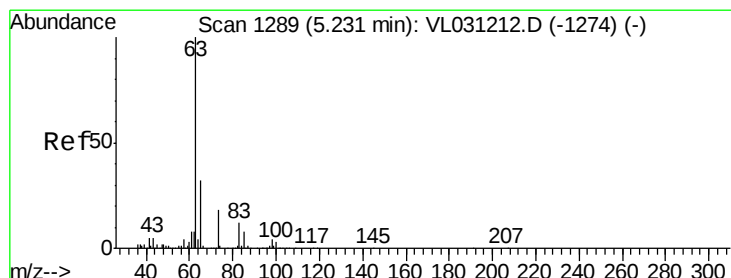
Tot Ion	43	Resp	2711420
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.9	8.9
42	9.7	7.3	10.9
44	4.9	3.7	5.5



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

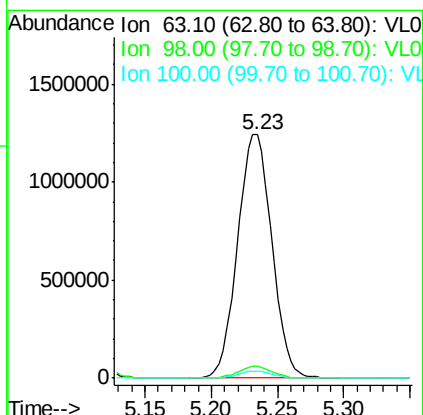
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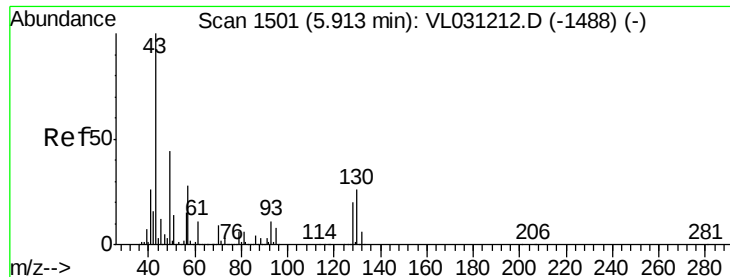
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 9.30 ppbv
 RT: 5.23 min Scan# 1290
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion	63	Resp	2230286
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.9	1.4	4.2





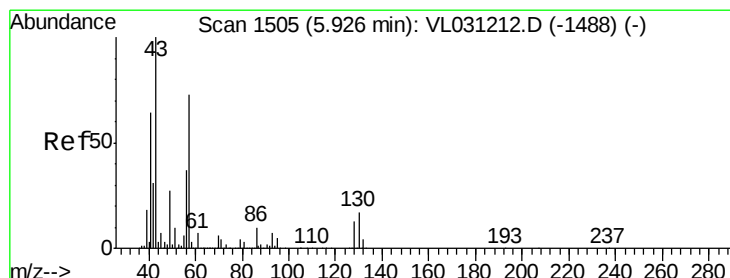
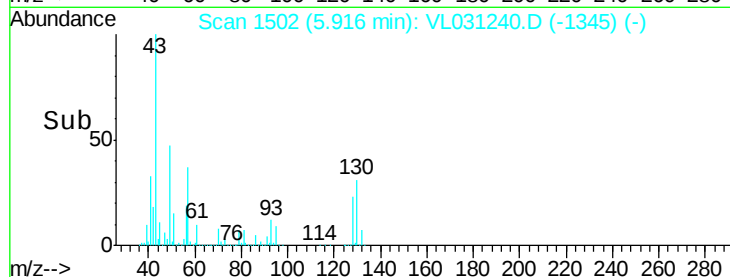
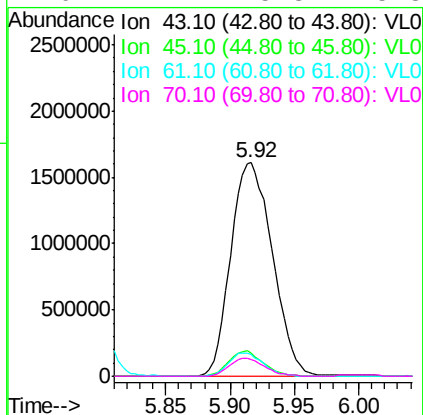
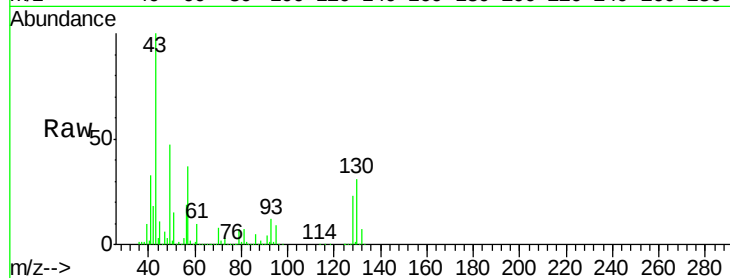
#25
Ethyl Acetate
Concen: 8.65 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.0	7.4	11.0
70	7.1	5.8	8.8

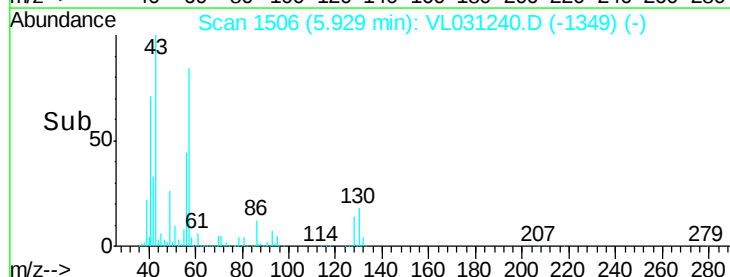
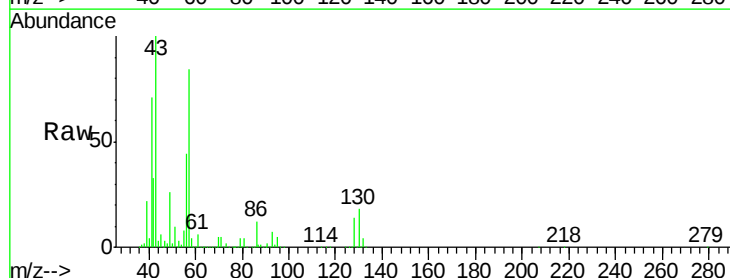
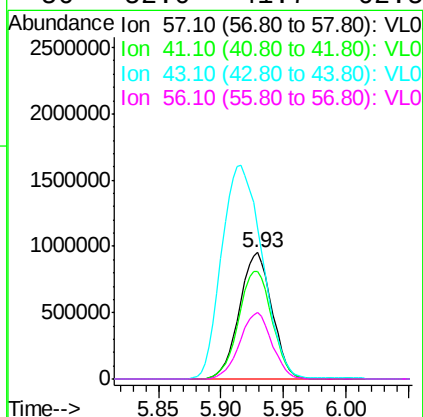
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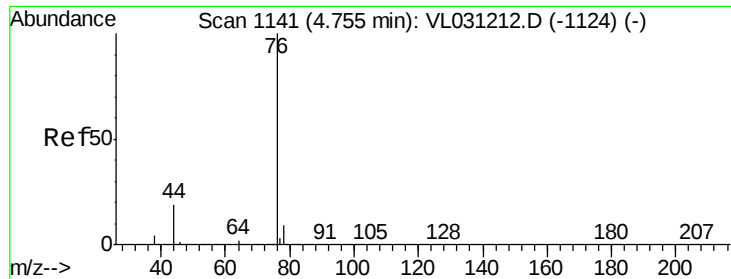
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#26
Hexane
Concen: 8.68 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.8	70.3	105.5
43	211.3	173.8	260.8
56	52.0	41.7	62.5





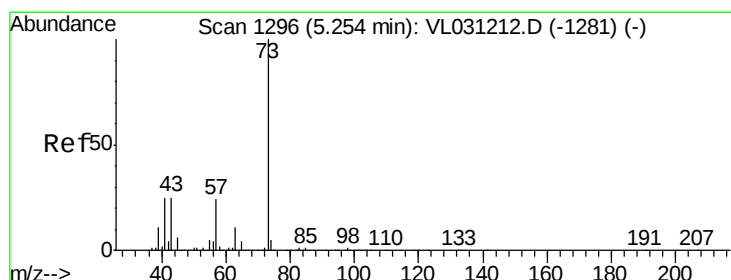
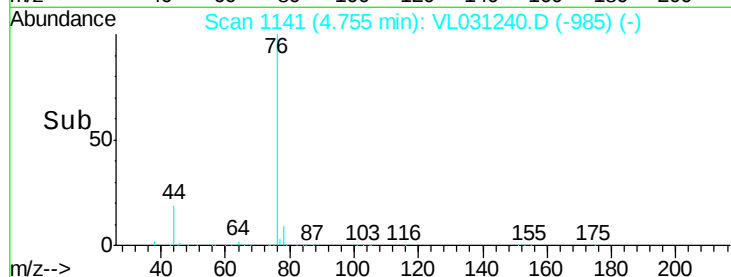
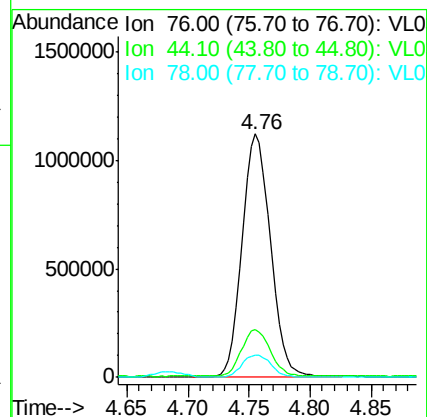
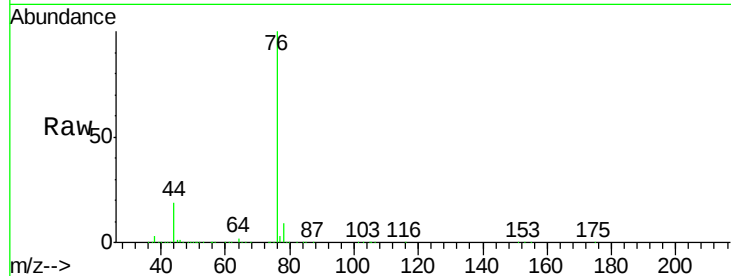
#27
Carbon Disulfide
Concen: 9.10 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.8	16.0	24.0
78	9.5	7.5	11.3

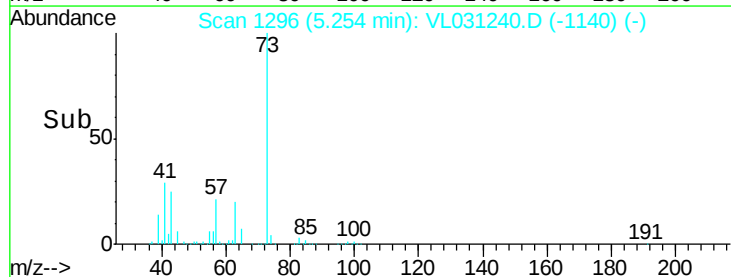
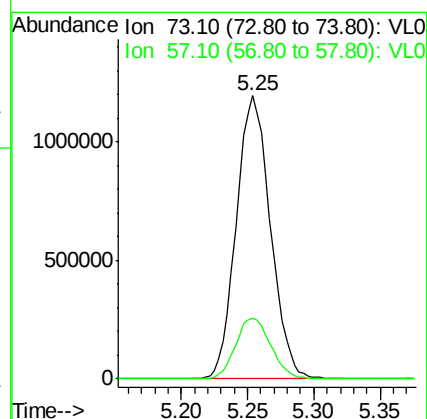
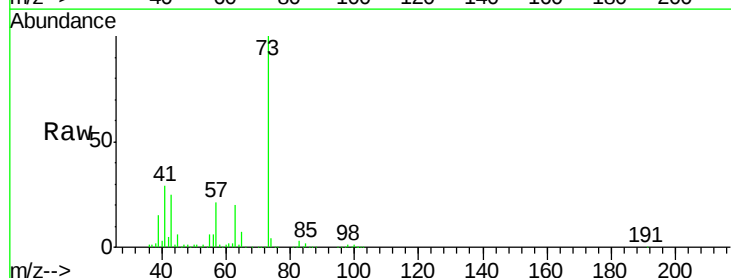
Manual Integrations
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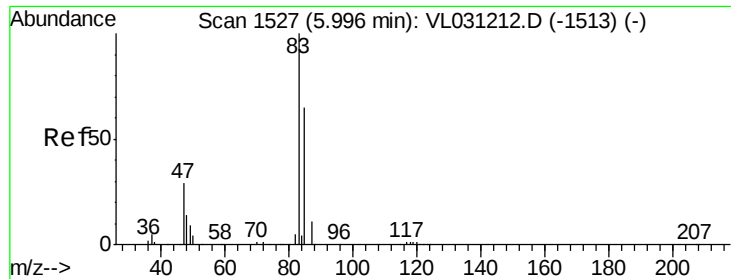
MMDadoda
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#28
Methyl tert-Butyl Ether
Concen: 8.25 ppbv
RT: 5.25 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.5	27.7





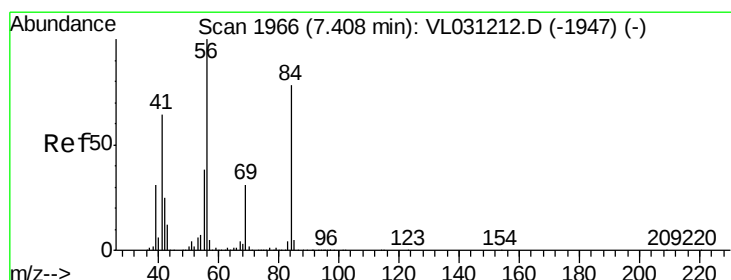
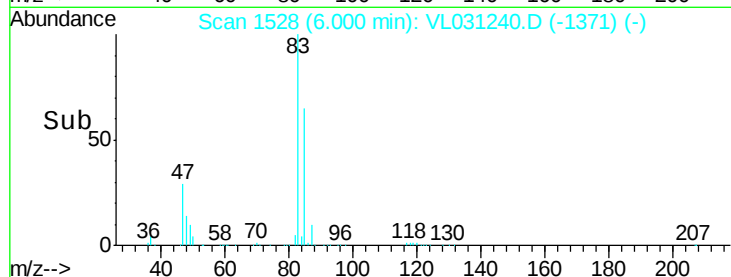
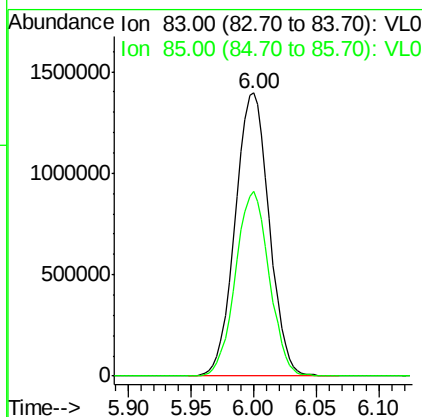
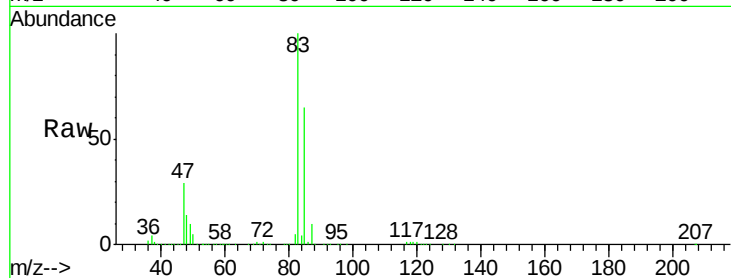
#29
Chloroform
Concen: 9.82 ppbv
RT: 6.00 min Scan# 1528
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2633505
Ion Ratio Lower Upper
83 100
85 65.3 51.8 77.6

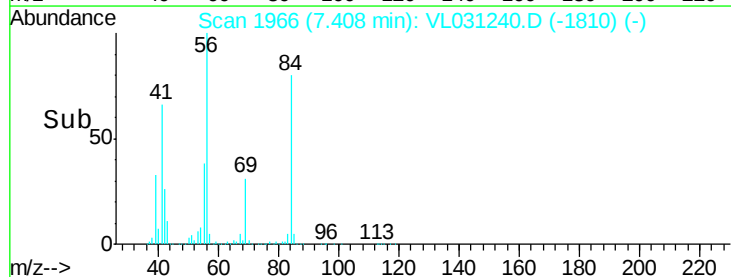
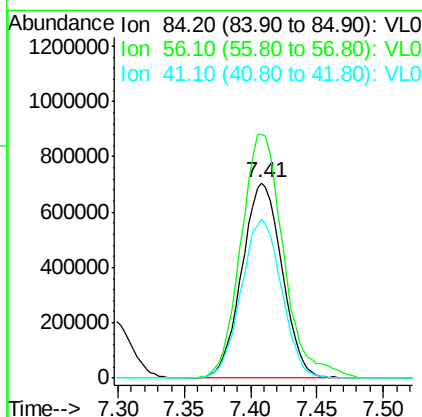
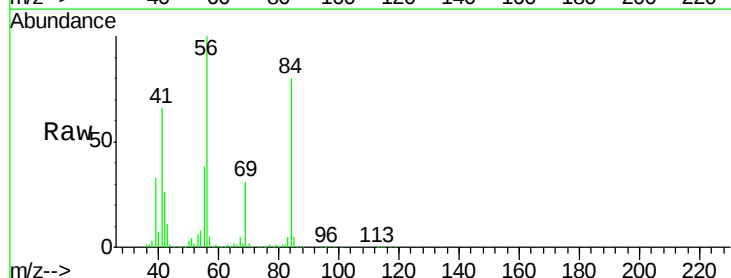
Manual Integrations
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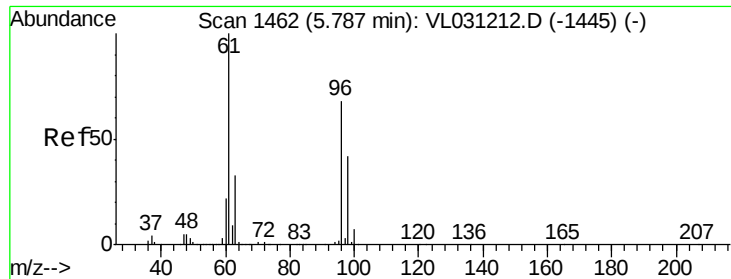
MMDadoda
12/15/2017 4:07:20 PM



#30
Cyclohexane
Concen: 8.49 ppbv
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion: 84 Resp: 1485997
Ion Ratio Lower Upper
84 100
56 132.9 108.0 162.0
41 81.8 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 9.23 ppbv

RT: 5.79 min Scan# 1462

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

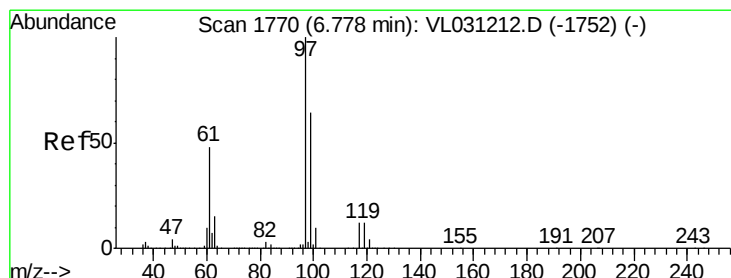
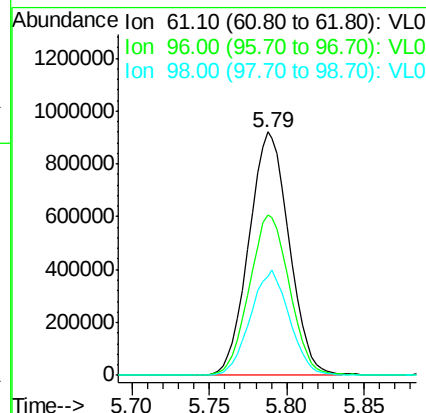
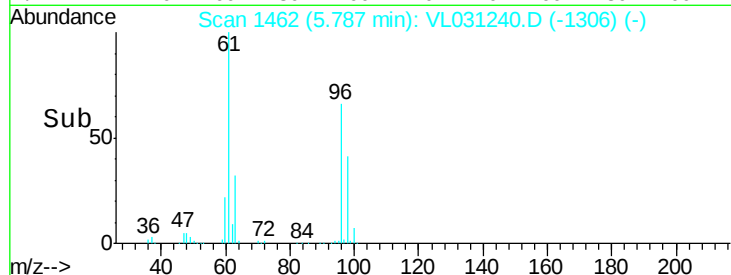
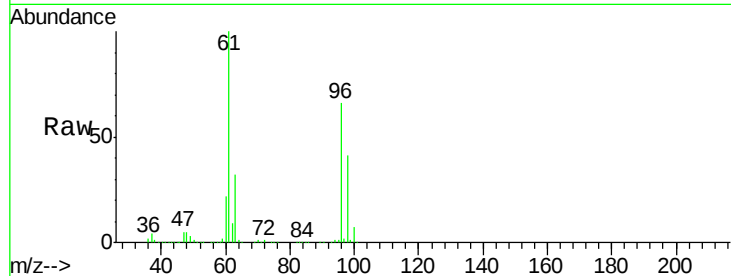
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1663341
Ion	Ratio	Lower	Upper
61	100		
96	66.1	54.4	81.6
98	40.8	33.6	50.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 8.97 ppbv

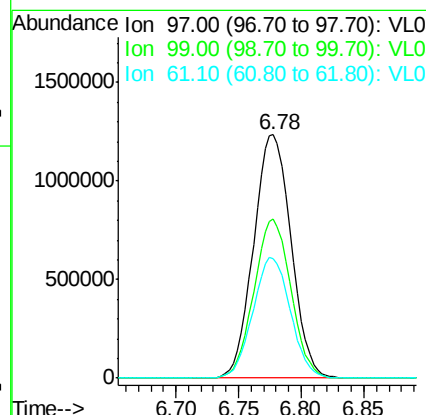
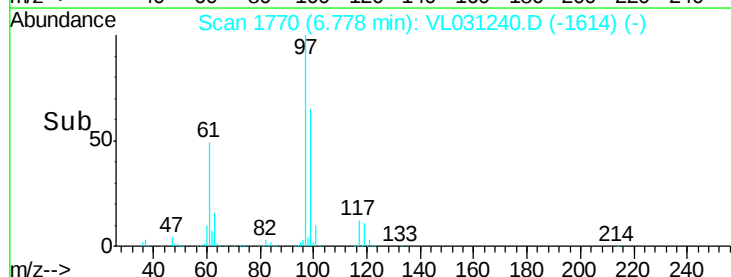
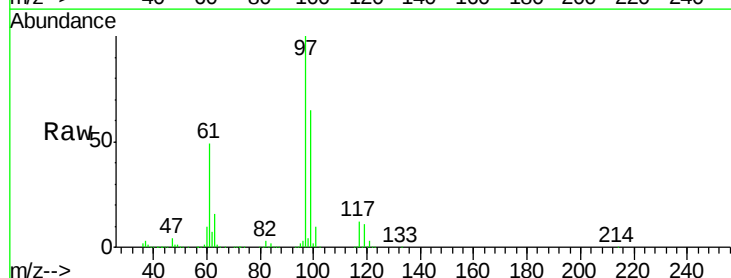
RT: 6.78 min Scan# 1770

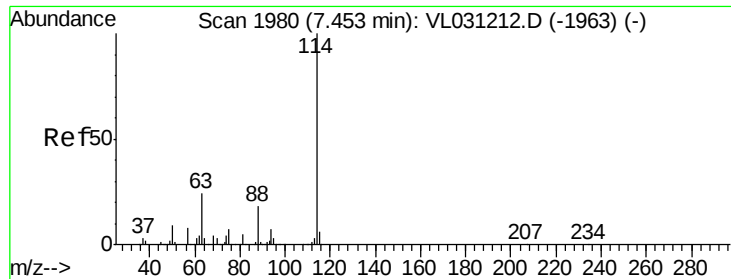
Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion:	97	Resp:	2571765
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.0
61	49.5	38.4	57.6





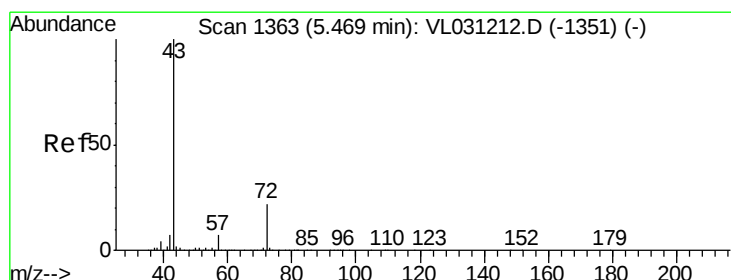
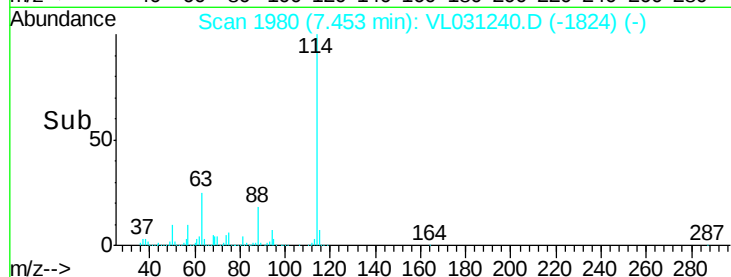
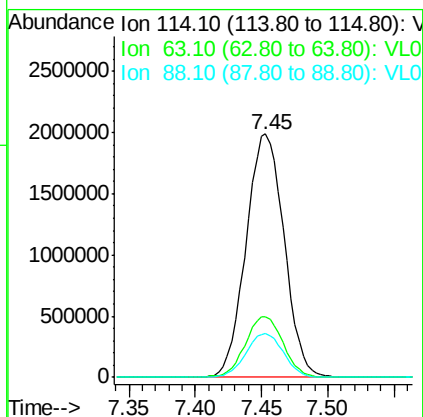
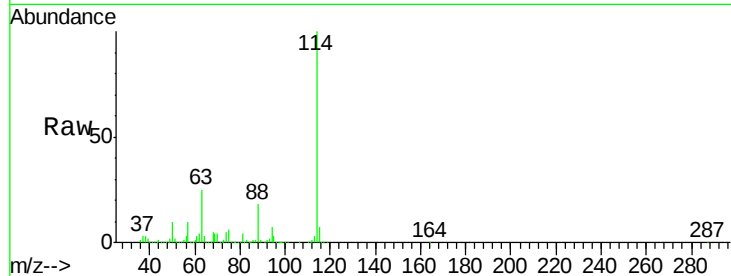
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 3971910
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.8 29.8
 88 17.7 14.2 21.4

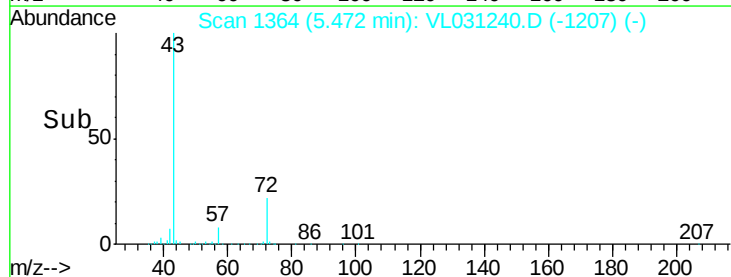
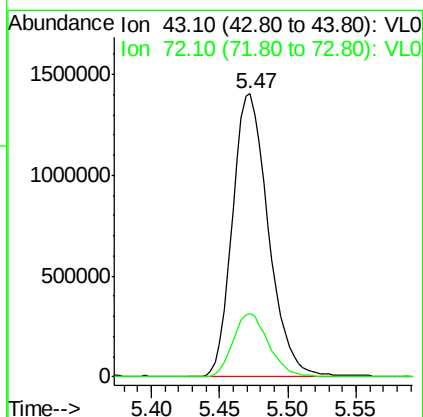
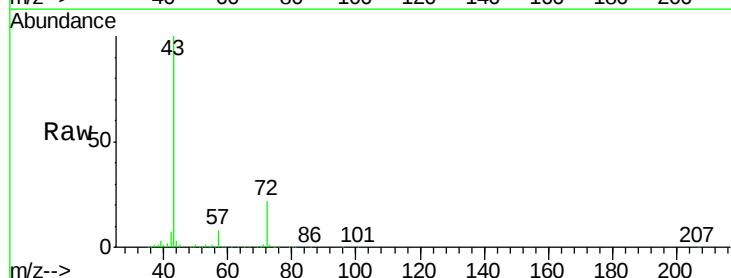
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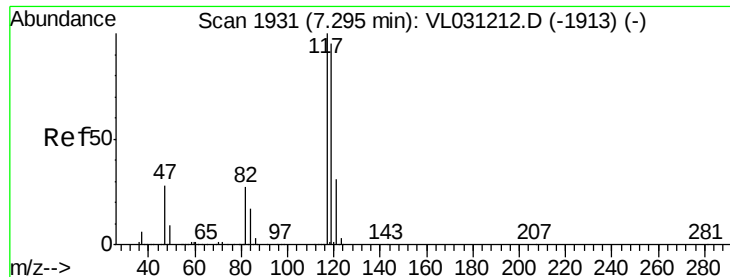
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#34
 2-Butanone
 Concen: 9.11 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion: 43 Resp: 2556187
 Ion Ratio Lower Upper
 43 100
 72 22.3 18.1 27.1





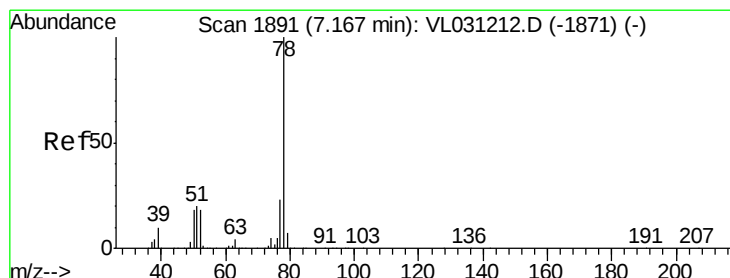
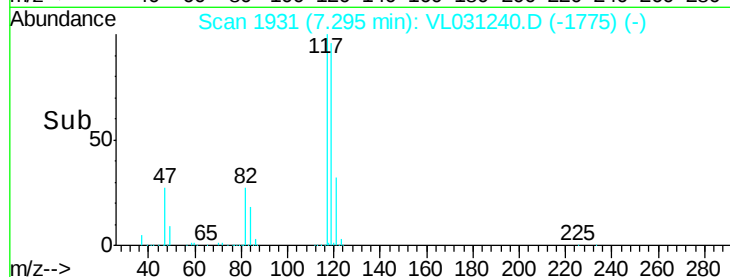
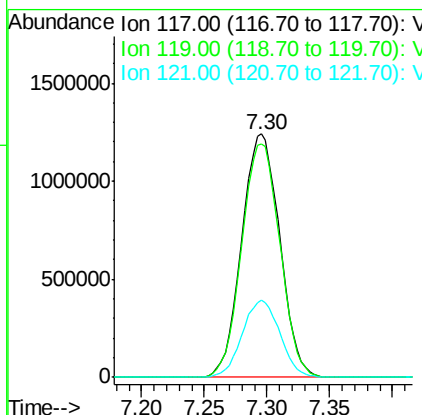
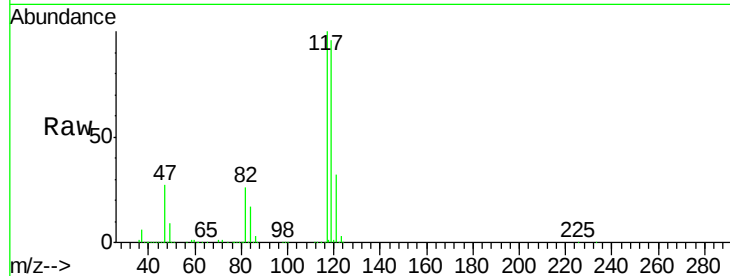
#35
Carbon Tetrachloride
Concen: 9.16 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.9	113.9
121	31.7	24.6	37.0

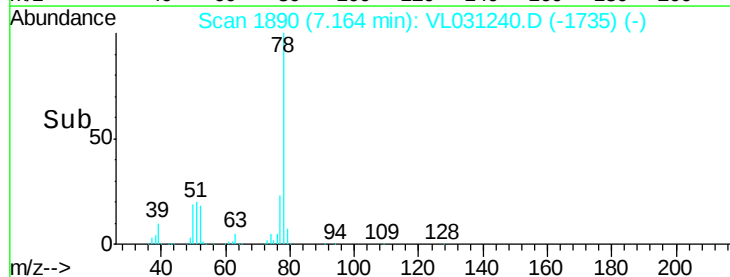
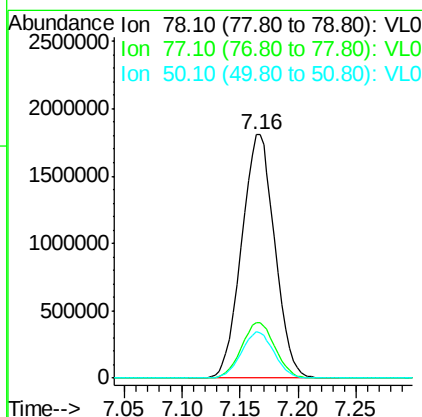
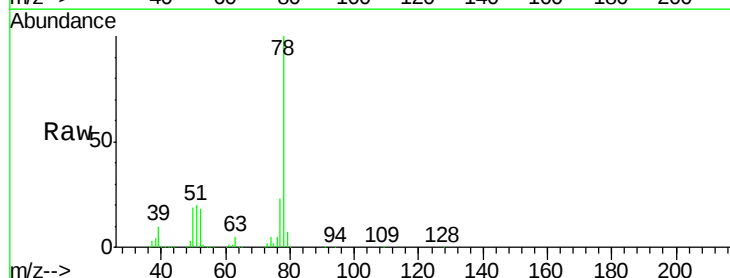
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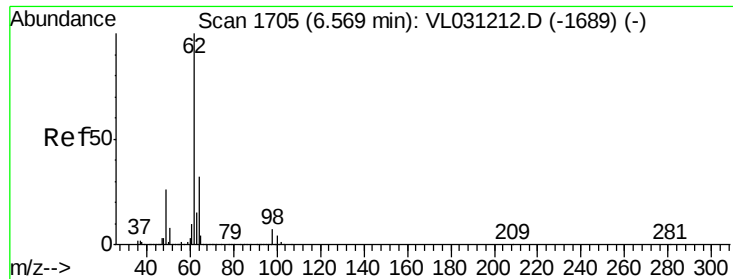
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#36
Benzene
Concen: 8.55 ppbv
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.1	27.1
50	19.2	14.6	21.8





#37

1,2-Dichloroethane

Concen: 9.30 ppbv

RT: 6.57 min Scan# 1704

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 2160587

Ion Ratio Lower Upper

62 100

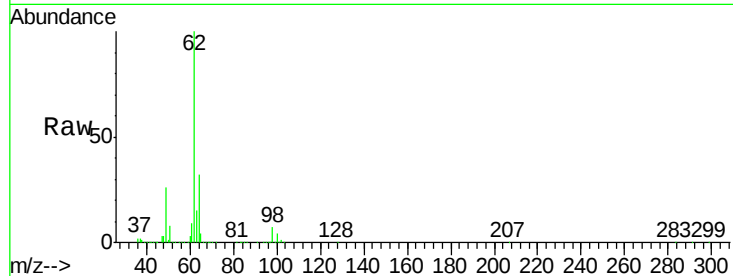
98 6.5 5.4 8.2

Manual Integrations

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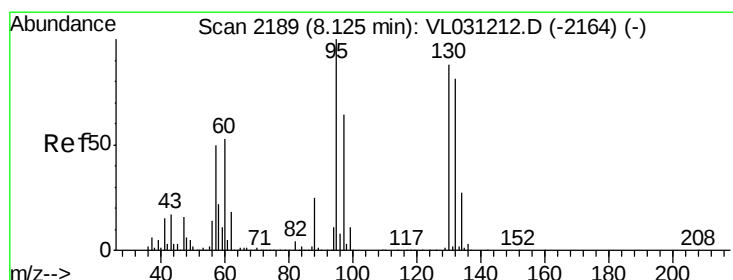
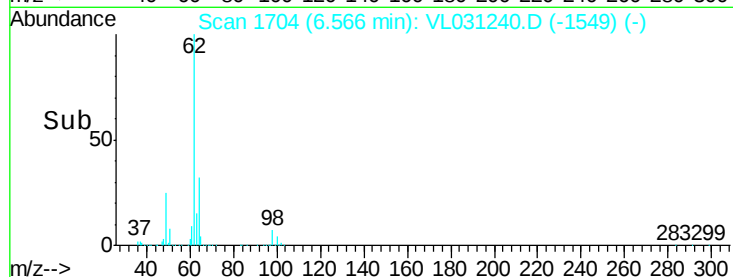
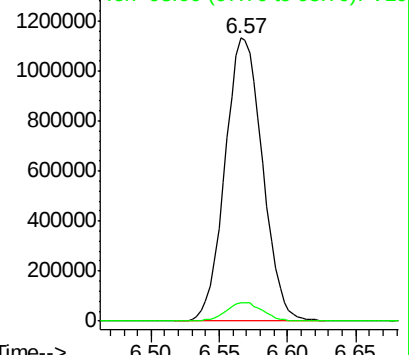
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 8.62 ppbv

RT: 8.12 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion:130 Resp: 1416045

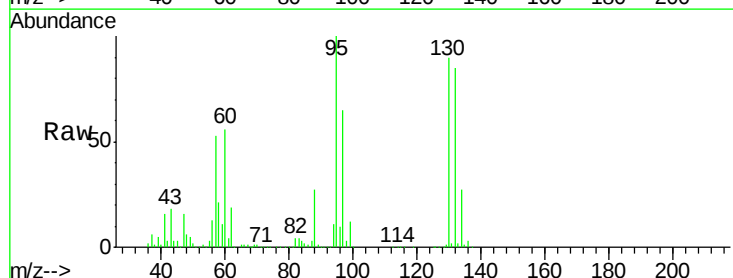
Ion Ratio Lower Upper

130 100

95 111.1 90.6 135.8

132 93.9 73.5 110.3

97 71.7 57.8 86.8

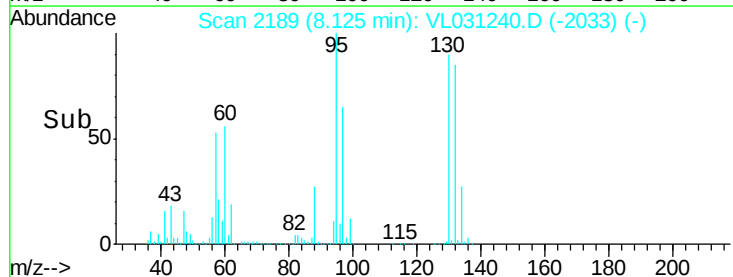
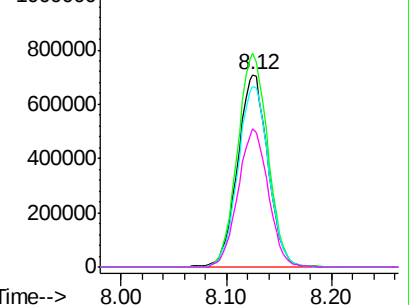


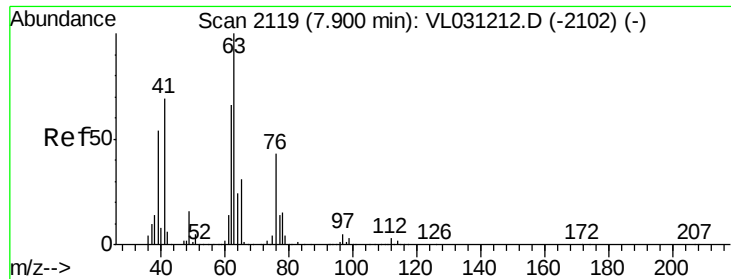
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 9.05 ppbv

RT: 7.90 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1347050

Ion Ratio Lower Upper

63 100

41 69.1 55.2 82.8

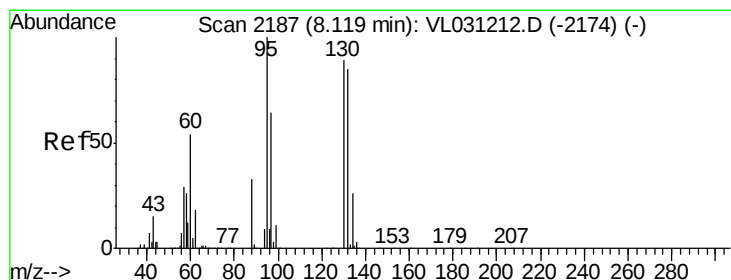
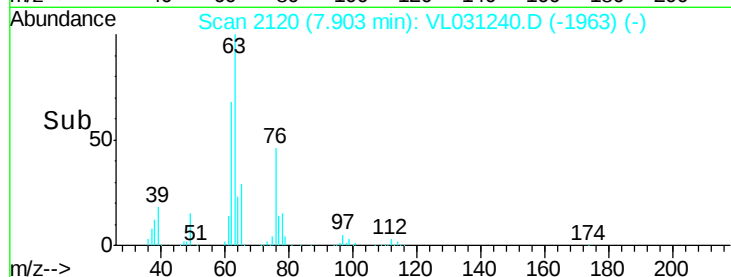
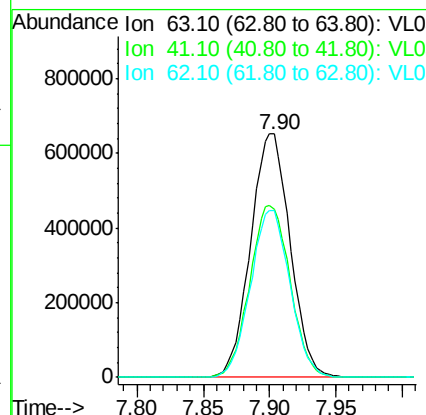
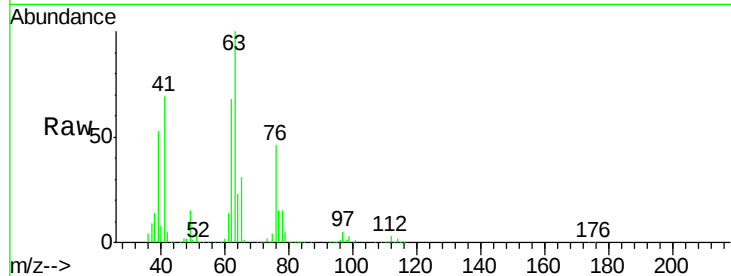
62 68.2 53.0 79.4

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#40

1,4-Dioxane

Concen: 10.99 ppbv

RT: 8.12 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion: 88 Resp: 590485

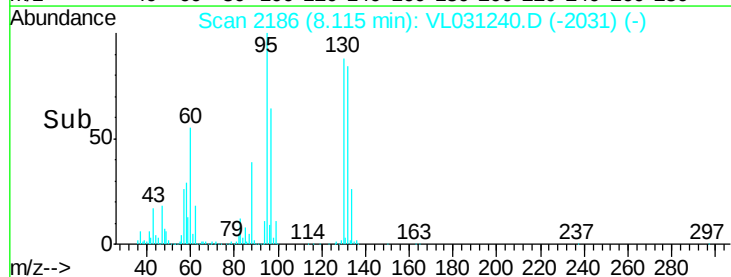
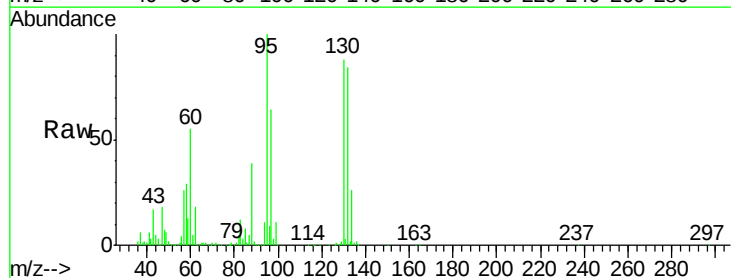
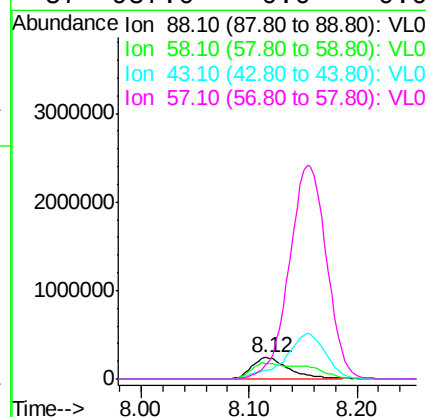
Ion Ratio Lower Upper

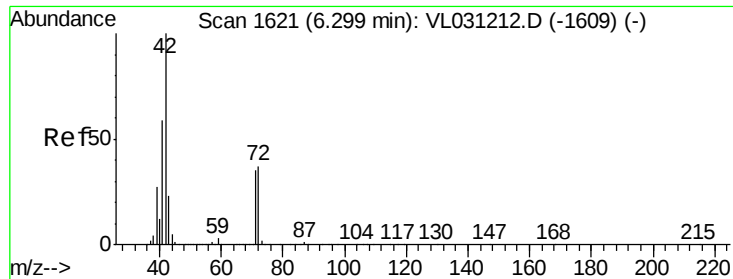
88 100

58 119.5 104.3 156.5

43 227.9 0.0 0.0#

57 987.0 0.0 0.0#





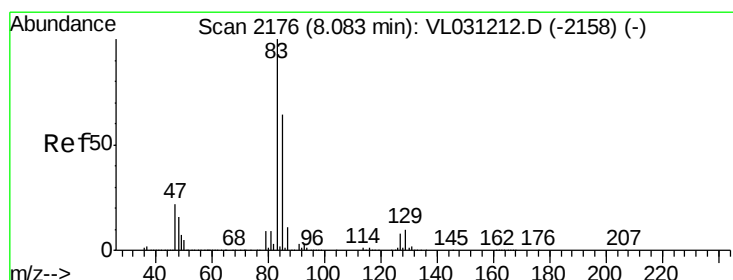
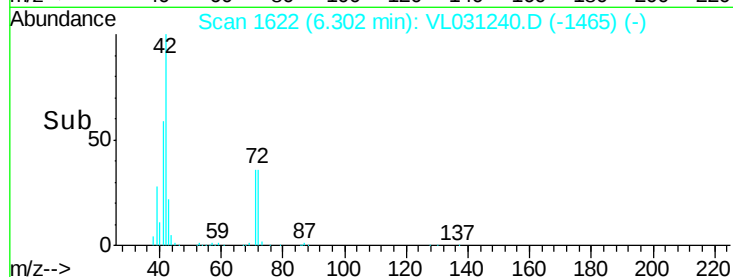
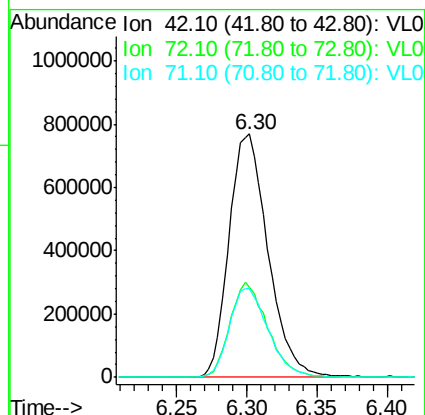
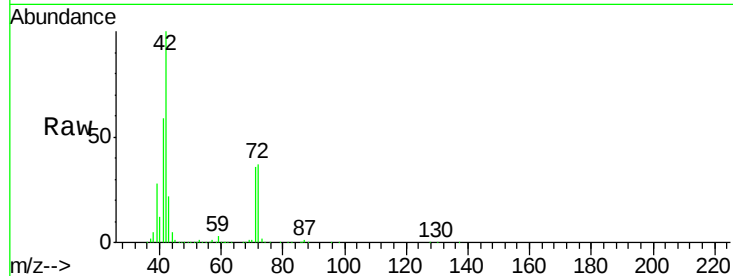
#41
Tetrahydrofuran
Concen: 9.42 ppbv
RT: 6.30 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 42 Resp: 1486697
Ion Ratio Lower Upper
42 100
72 37.8 30.2 45.4
71 36.7 29.0 43.6

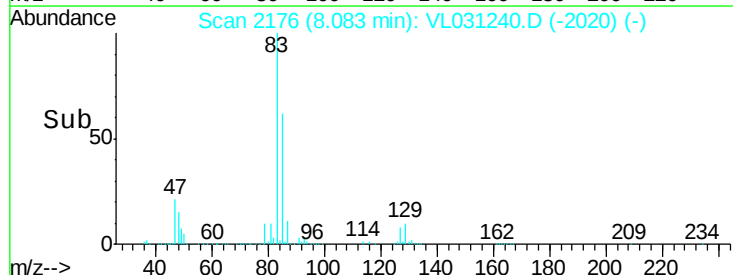
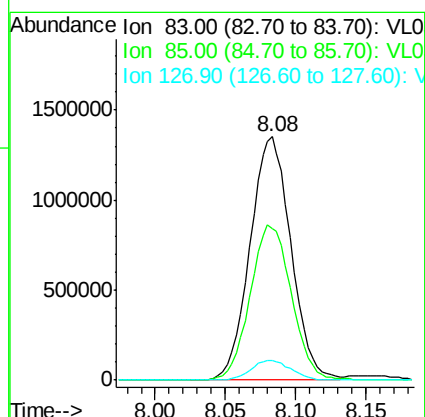
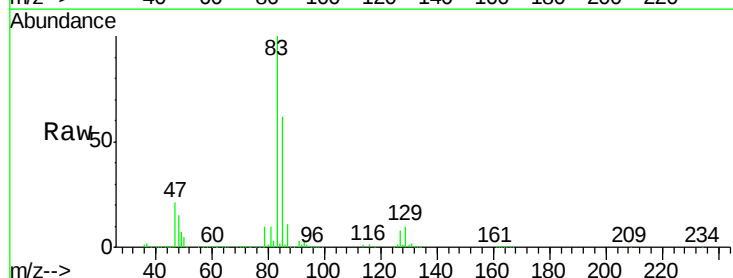
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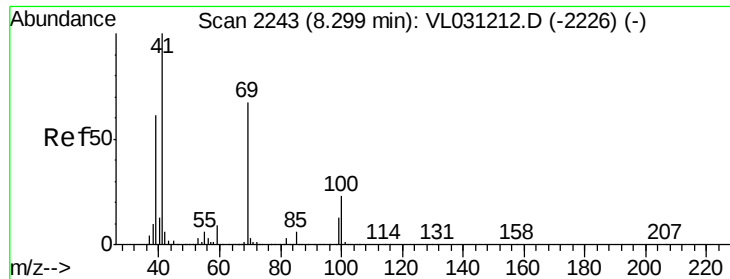
MMDadoda
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#42
Bromodichloromethane
Concen: 10.01 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion: 83 Resp: 2739395
Ion Ratio Lower Upper
83 100
85 62.3 51.5 77.3
127 7.9 6.5 9.7





#43

Methyl Methacrylate

Concen: 9.74 ppbv

RT: 8.30 min Scan# 2243

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 69 Resp: 1372535

Ion Ratio Lower Upper

69 100

41 148.5 121.1 181.7

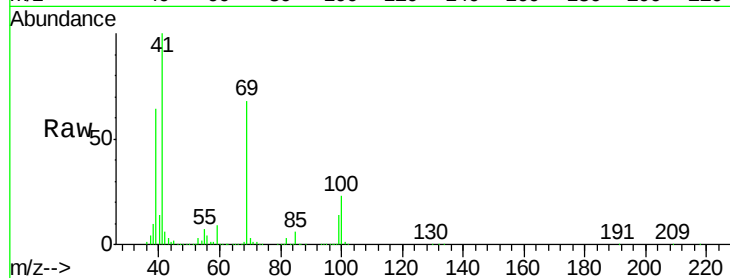
100 33.0 27.4 41.2

Manual Integrations

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MMDadoda

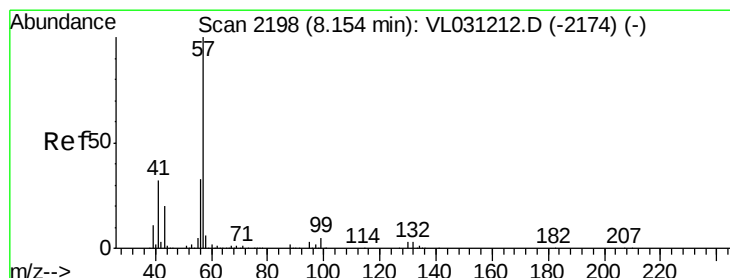
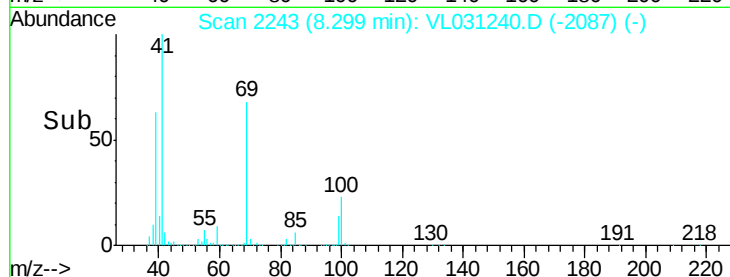
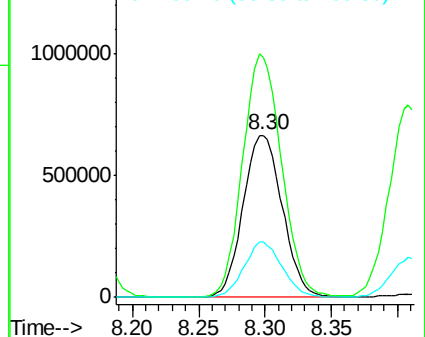
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Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 9.15 ppbv

RT: 8.15 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

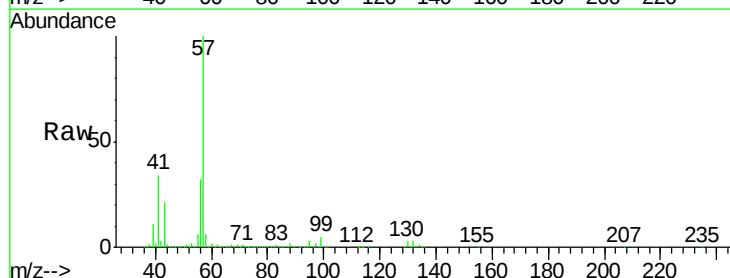
Tgt Ion: 57 Resp: 5819981

Ion Ratio Lower Upper

57 100

41 32.2 25.5 38.3

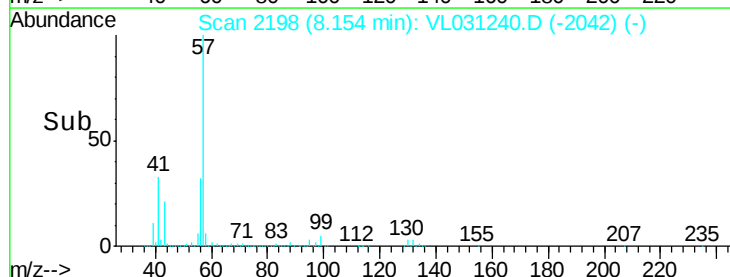
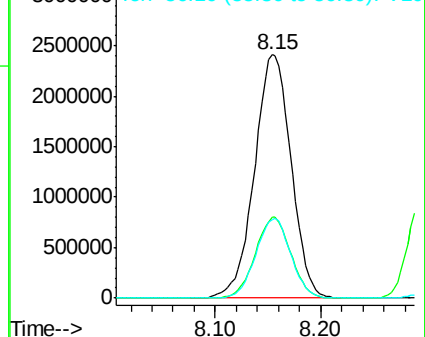
56 31.3 25.0 37.6

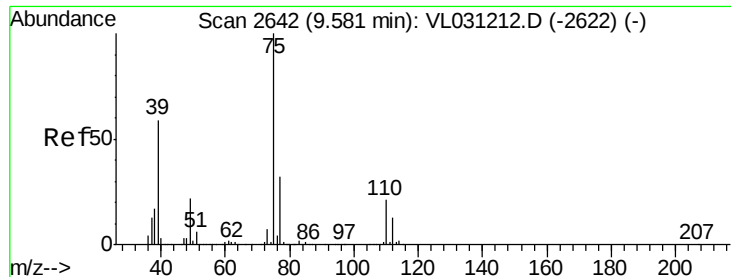


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 9.80 ppbv

RT: 9.58 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1889230

Ion Ratio Lower Upper

75 100

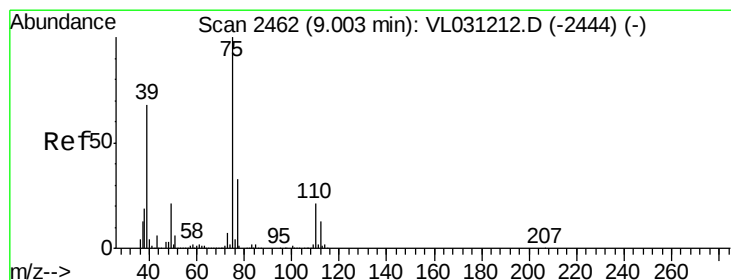
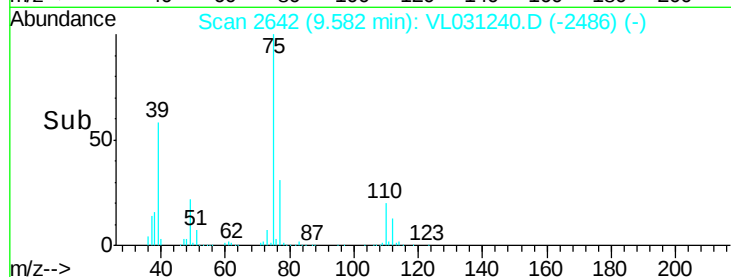
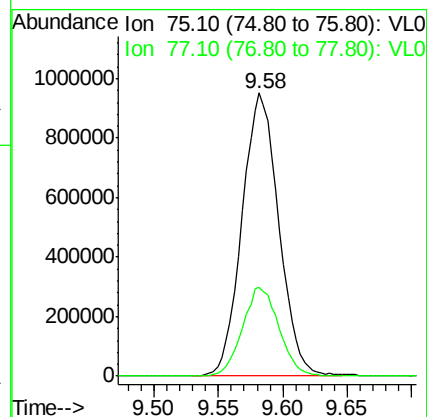
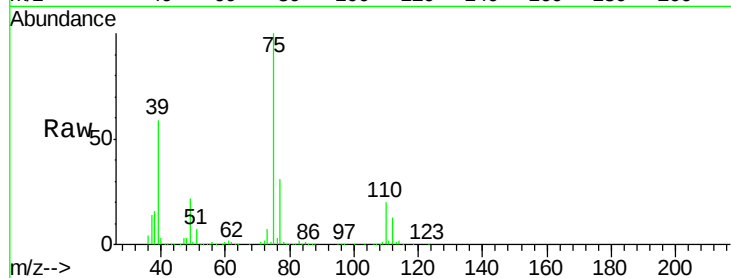
77 31.4 25.4 38.2

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#46

cis-1,3-Dichloropropene

Concen: 9.64 ppbv

RT: 9.00 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

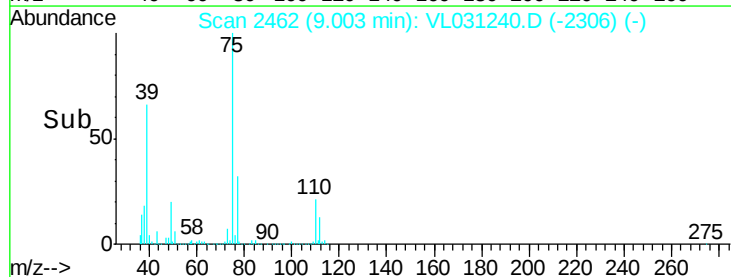
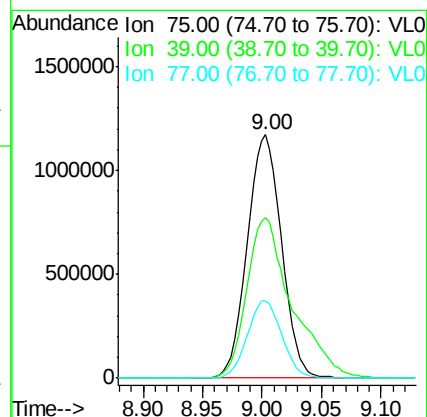
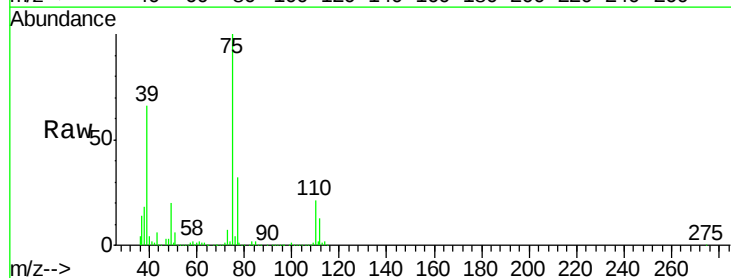
Tgt Ion: 75 Resp: 2337977

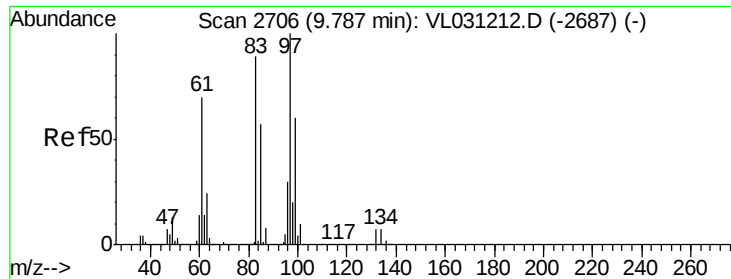
Ion Ratio Lower Upper

75 100

39 65.7 54.2 81.4

77 31.7 26.2 39.4





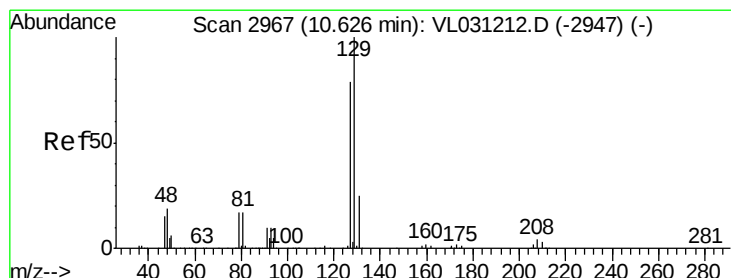
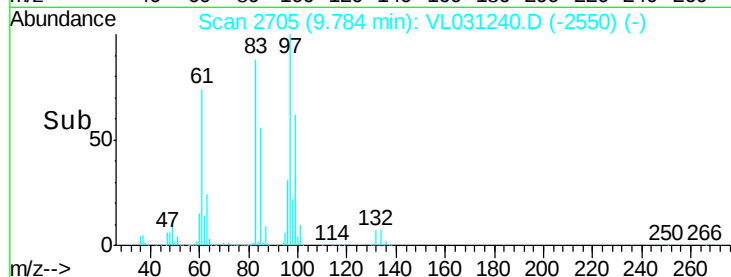
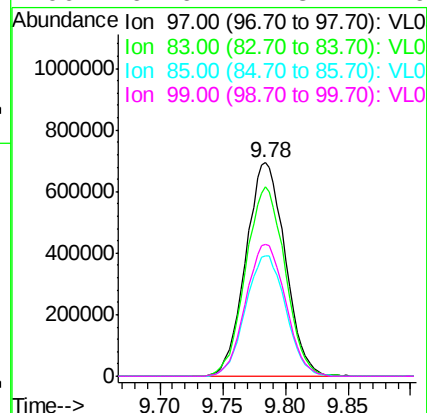
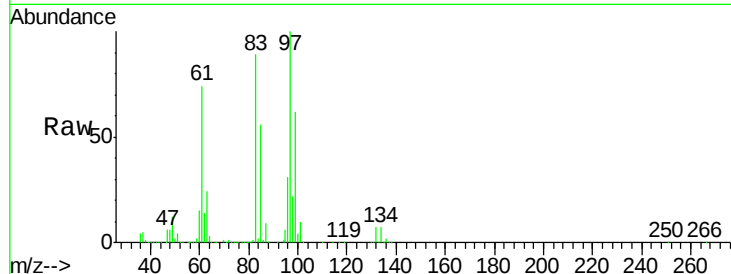
#47
 1,1,2-Trichloroethane
 Concen: 9.83 ppbv
 RT: 9.78 min Scan# 2705
 Delta R.T. -0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.4	71.0	106.4
85	56.5	45.3	67.9
99	61.6	47.8	71.6

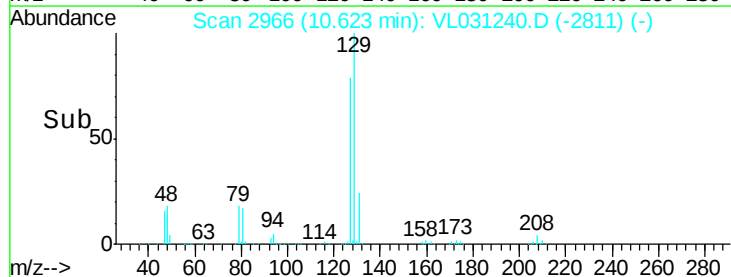
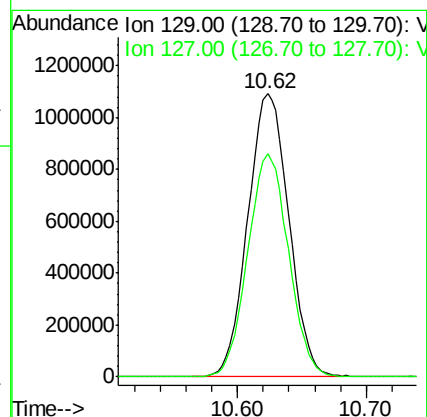
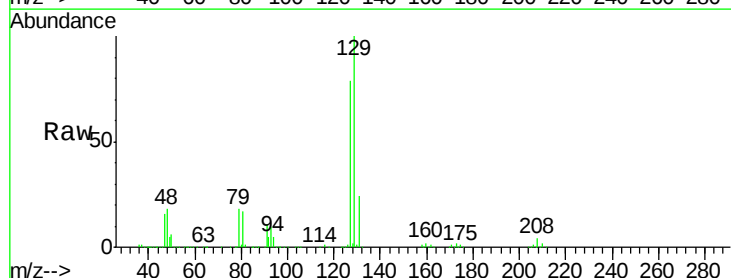
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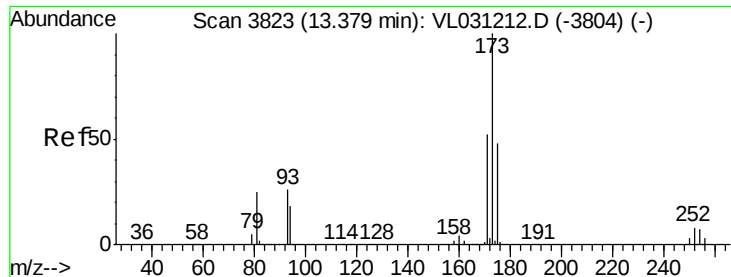
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#48
 Dibromochloromethane
 Concen: 10.03 ppbv
 RT: 10.62 min Scan# 2966
 Delta R.T. -0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.5





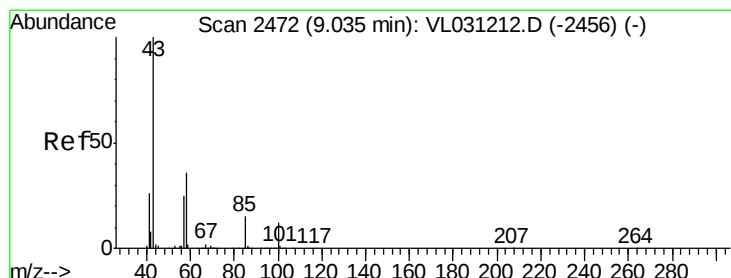
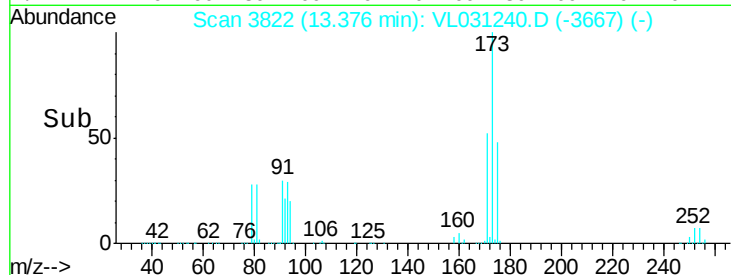
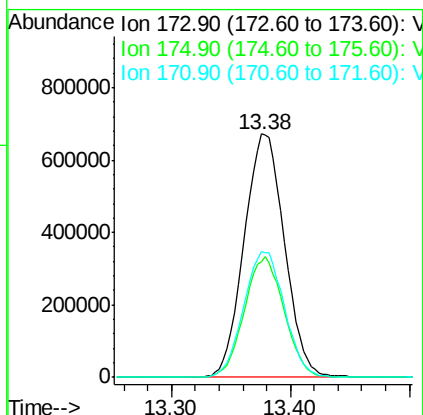
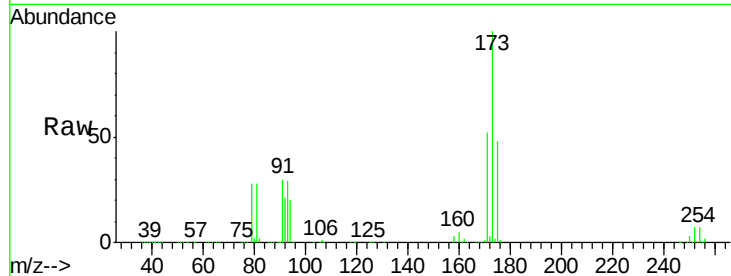
#49
Bromoform
Concen: 8.88 ppbv
RT: 13.38 min Scan# 3822
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1579397
Ion Ratio Lower Upper
173 100
175 49.1 39.0 58.4
171 52.4 41.8 62.8

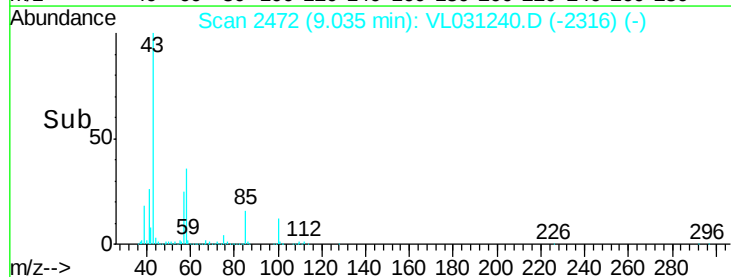
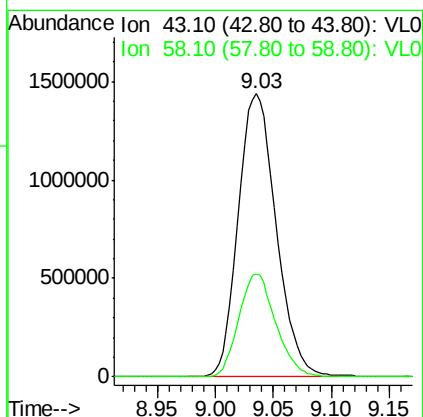
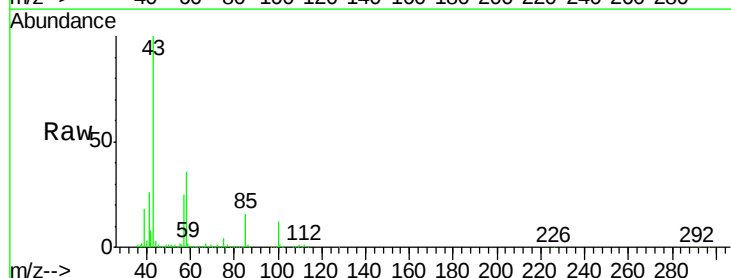
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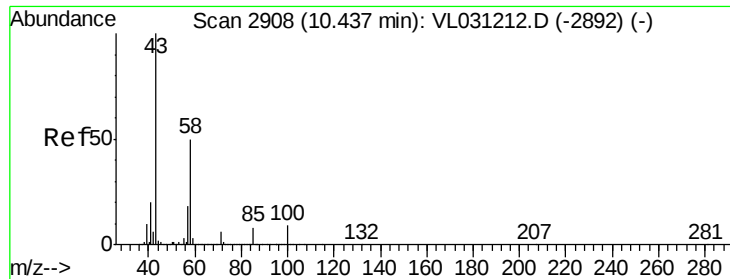
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.54 ppbv
RT: 9.03 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion: 43 Resp: 3275095
Ion Ratio Lower Upper
43 100
58 35.7 28.8 43.2





#51

2-Hexanone

Concen: 9.78 ppbv

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3204563

Ion Ratio Lower Upper

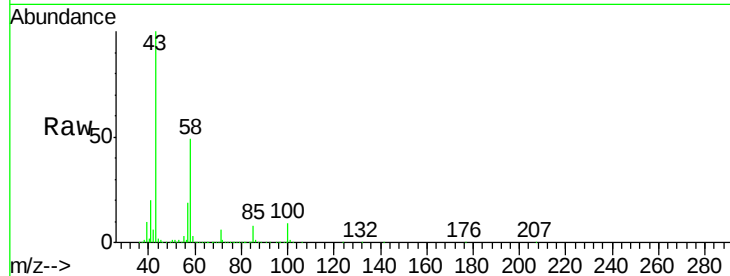
43 100

58 49.3 39.8 59.6

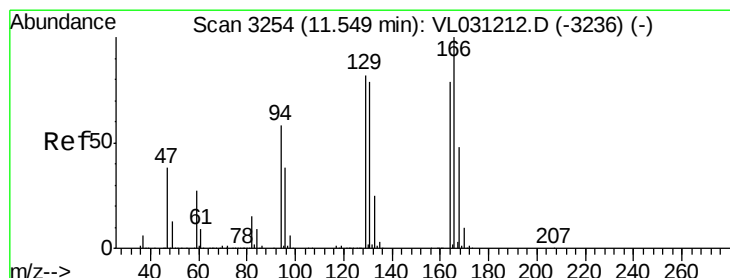
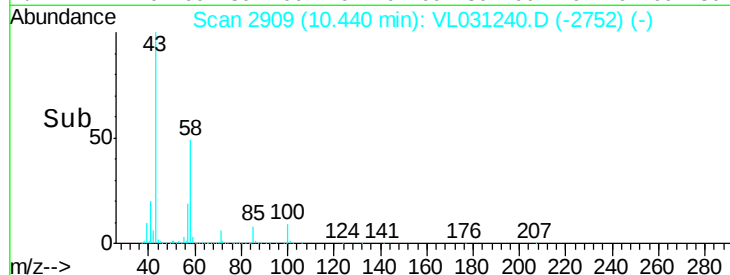
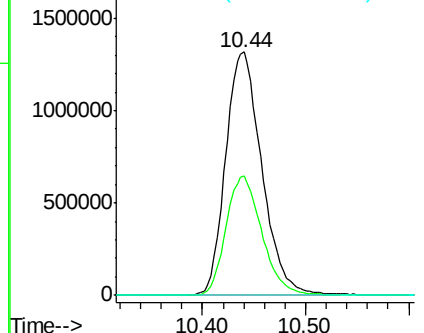
98 0.1 0.0 0.0#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.70 ppbv

RT: 11.55 min Scan# 3253

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion: 164 Resp: 1350538

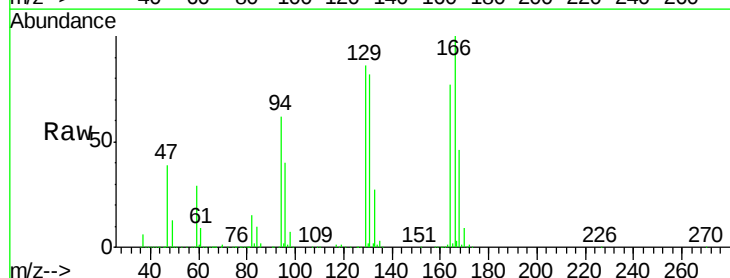
Ion Ratio Lower Upper

164 100

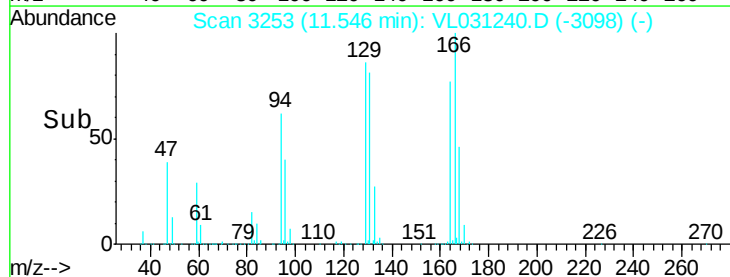
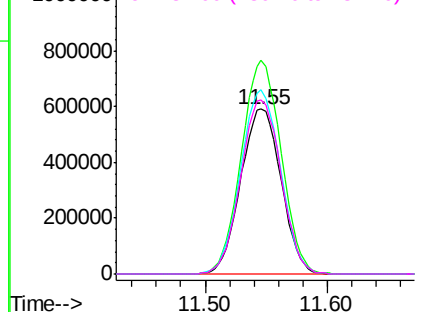
166 129.6 100.6 151.0

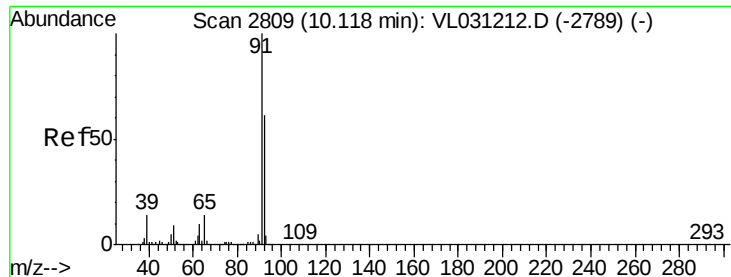
129 111.6 82.9 124.3

131 105.6 79.2 118.8



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.60 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4385584

Ion Ratio Lower Upper

91 100

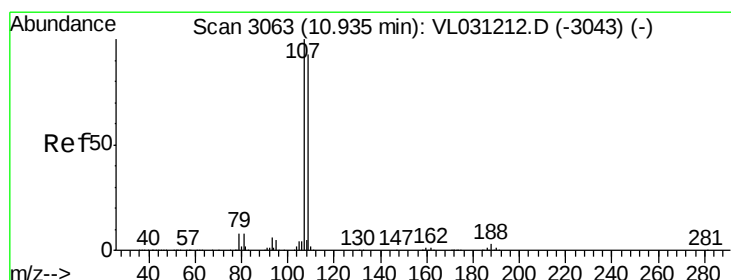
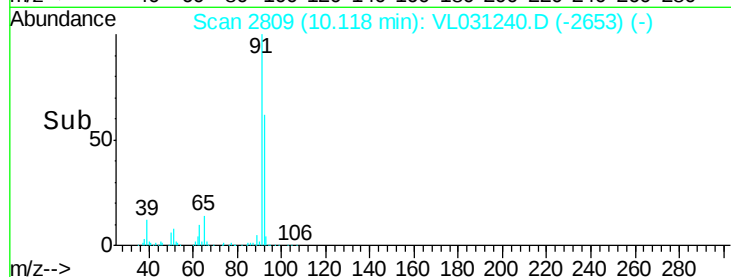
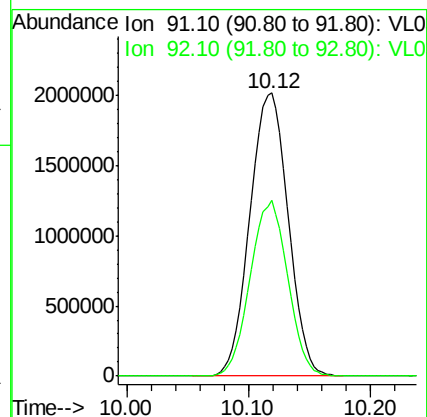
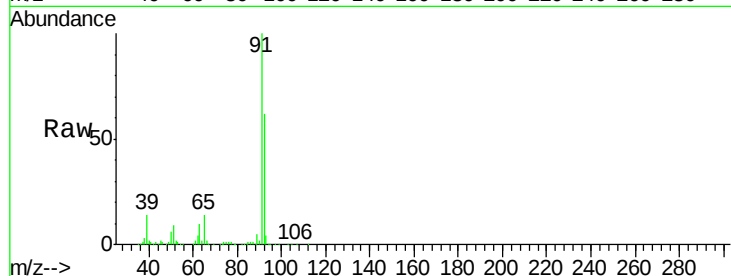
92 60.9 49.1 73.7

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#54

1,2-Dibromoethane

Concen: 9.84 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VL031240.D

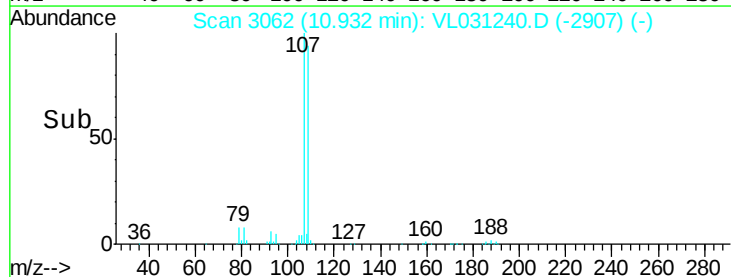
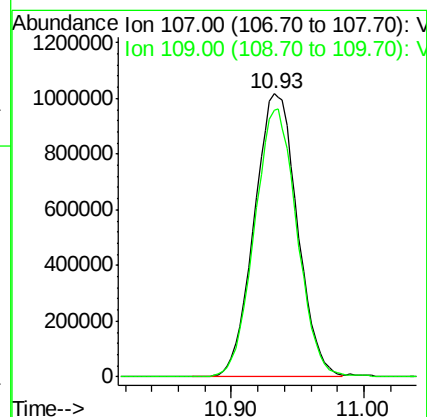
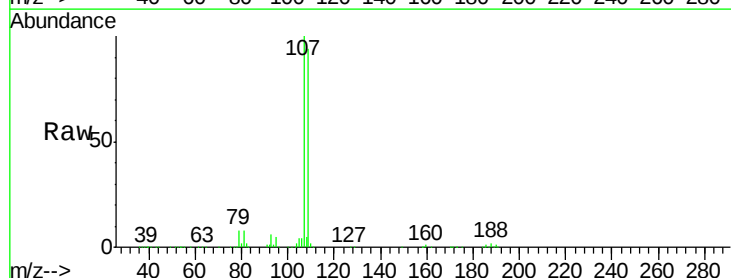
Acq: 14 Dec 2017 20:23

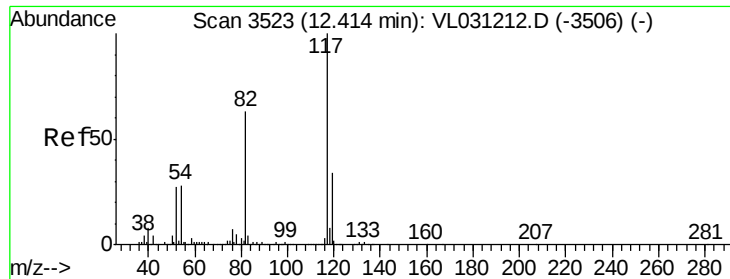
Tgt Ion: 107 Resp: 2303114

Ion Ratio Lower Upper

107 100

109 94.1 74.7 112.1





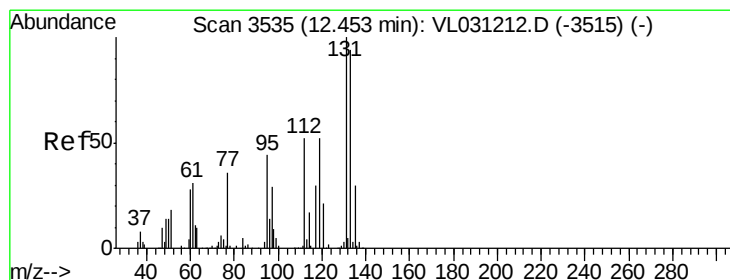
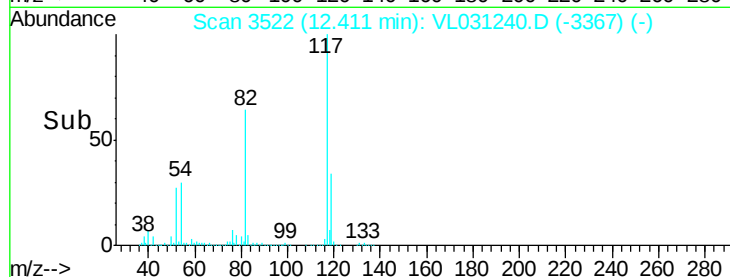
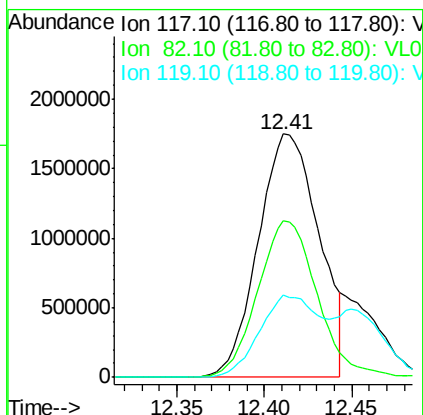
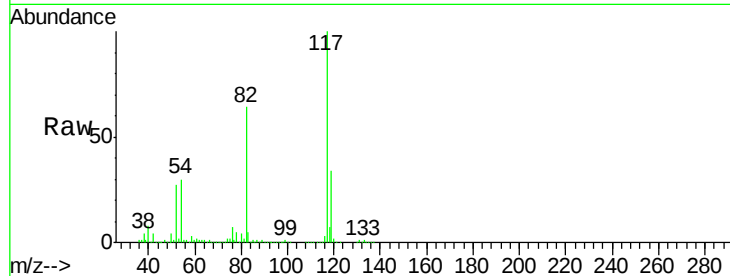
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.0	48.1	72.1
119	55.6	23.1	34.7#

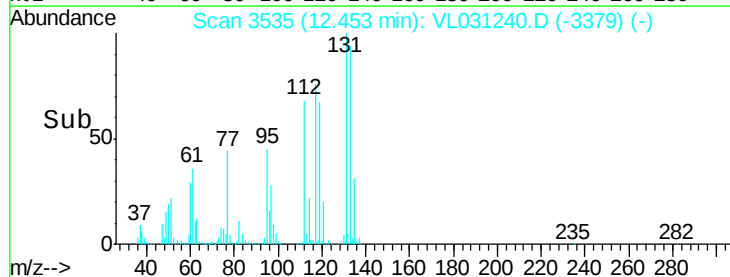
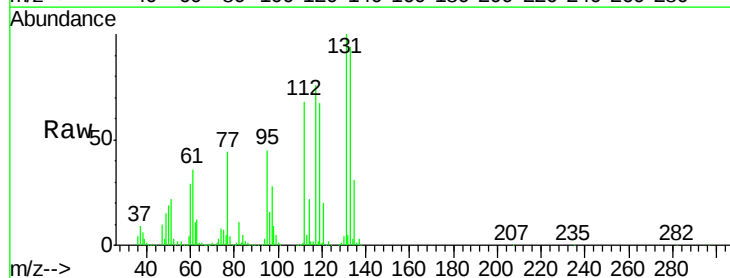
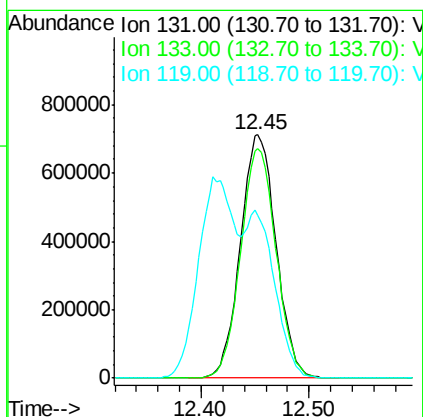
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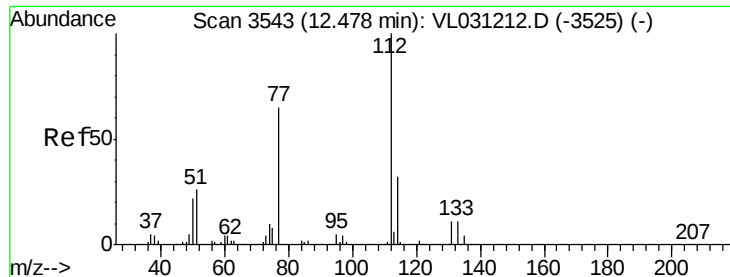
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.66 ppbv
RT: 12.45 min Scan# 3535
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.2	76.1	114.1
119	144.0	108.5	162.7





#57

Chlorobenzene

Concen: 8.50 ppbv

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 3353839

Ion Ratio Lower Upper

112 100

77 64.1 52.9 79.3

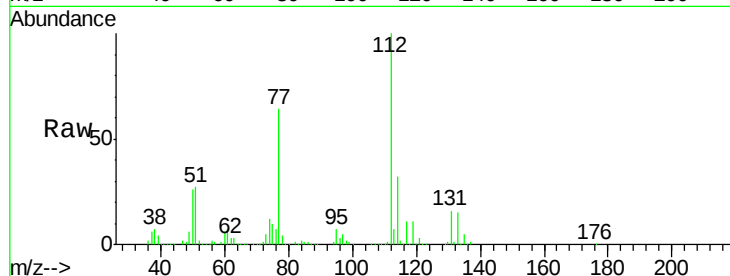
114 31.9 29.1 35.5

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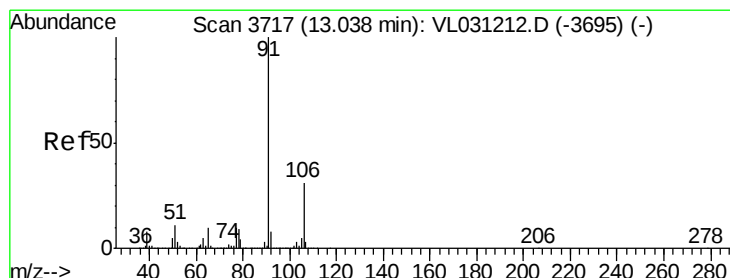
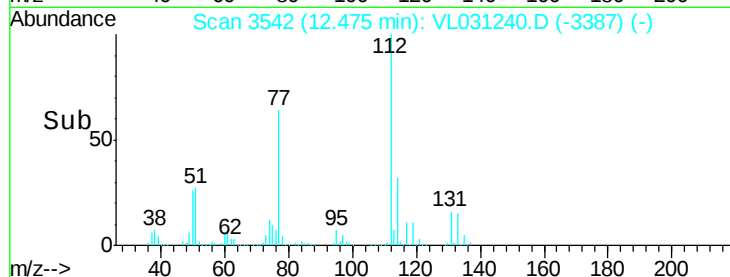
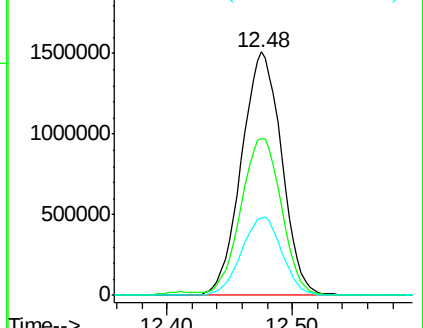
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.96 ppbv

RT: 13.04 min Scan# 3717

Delta R.T. 0.00 min

Lab File: VL031240.D

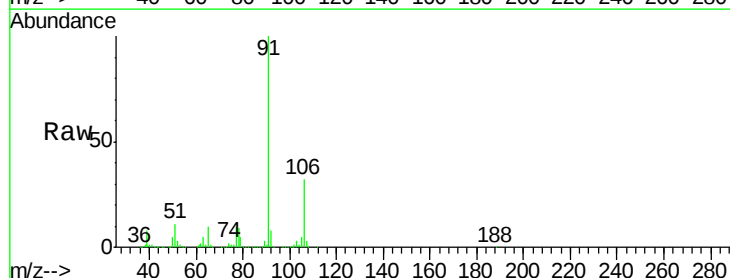
Acq: 14 Dec 2017 20:23

Tgt Ion: 91 Resp: 5561818

Ion Ratio Lower Upper

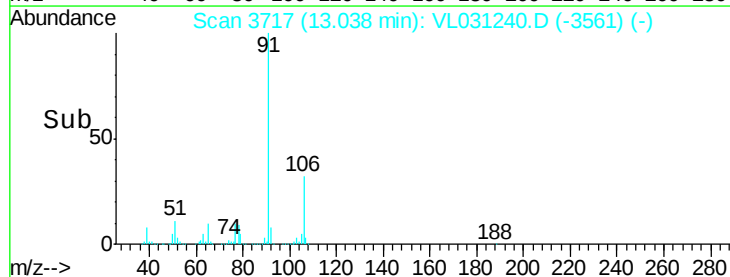
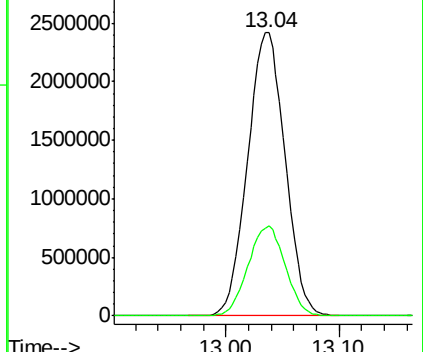
91 100

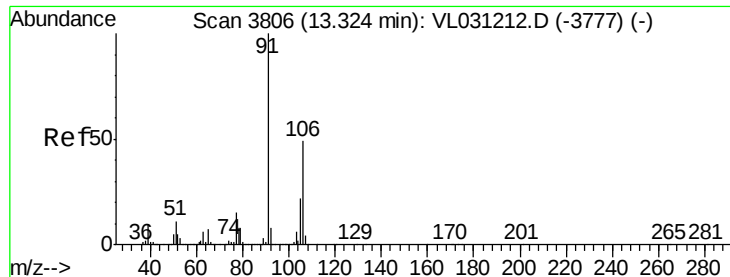
106 31.7 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





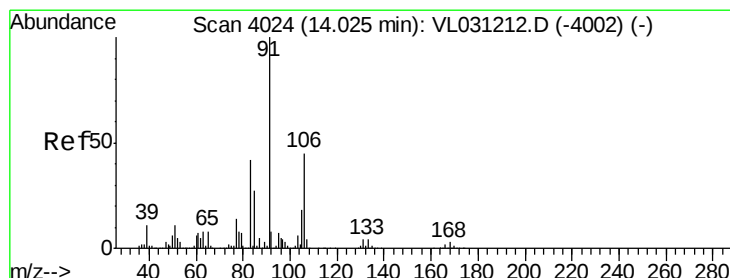
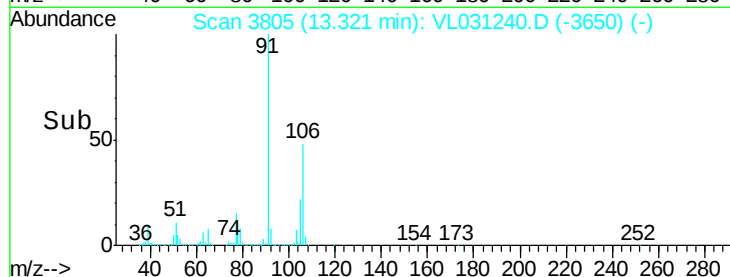
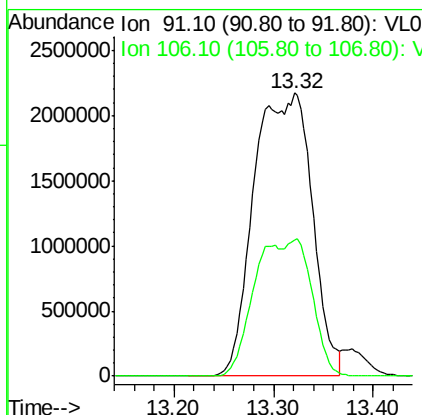
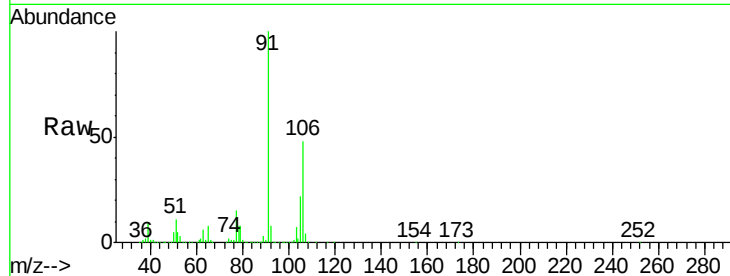
#59
m/p-Xylene
Concen: 15.68 ppbv m
RT: 13.32 min Scan# 3805
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8766925
Ion Ratio Lower Upper
91 100
106 47.7 38.5 57.7

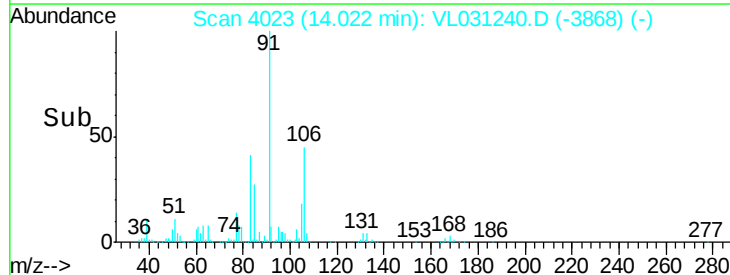
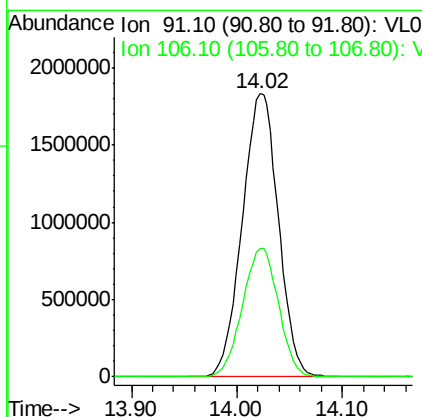
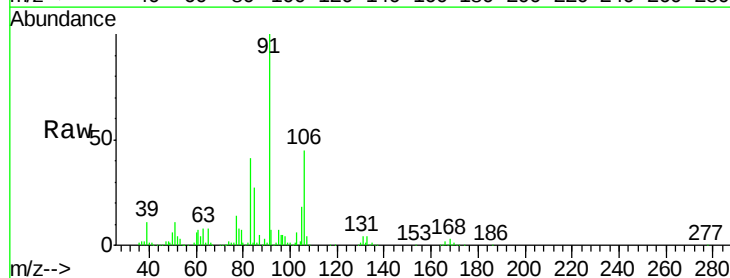
Manual Integrations
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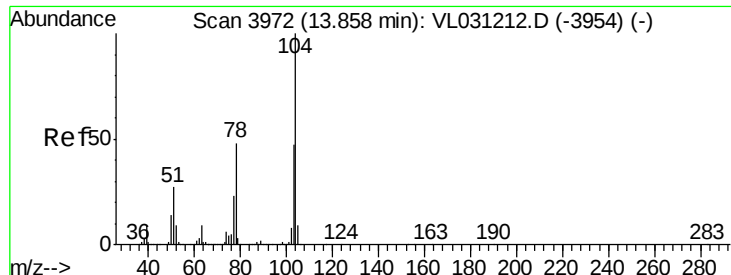
MMDadoda
12/15/2017 4:07:20 PM



#60
o-Xylene
Concen: 7.75 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion: 91 Resp: 4369828
Ion Ratio Lower Upper
91 100
106 45.5 22.7 68.1





#61

Stvrene

Concen: 7.83 ppbv

RT: 13.86 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

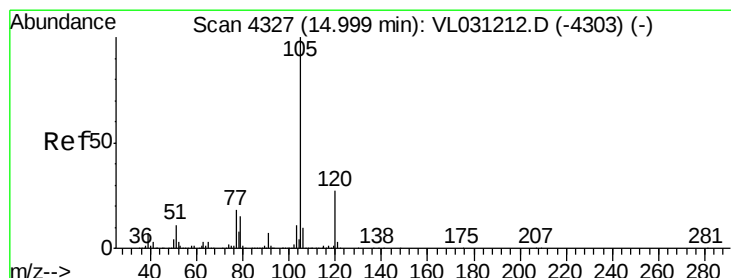
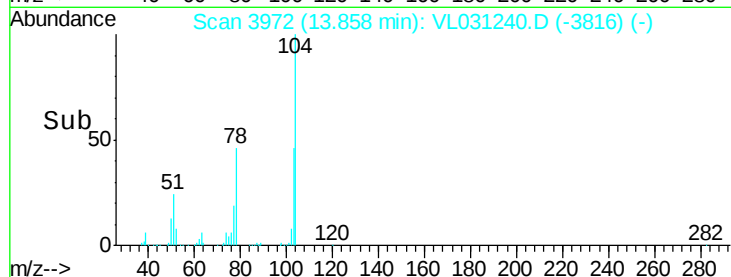
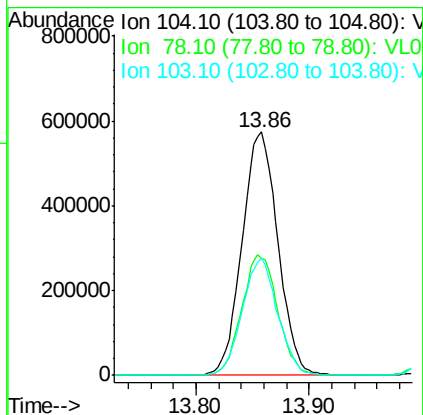
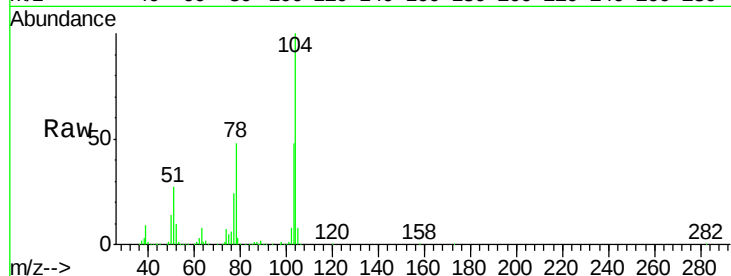
ClientSampleId :

VSTDCCC010EC

Tot Ion:	104	Resp:	1266793
Ion	Ratio	Lower	Upper
104	100		
78	49.9	39.1	58.7
103	47.5	37.3	55.9

Manual Integrations
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12/15/2017 4:07:20 PM



#62

Isopropylbenzene

Concen: 7.72 ppbv

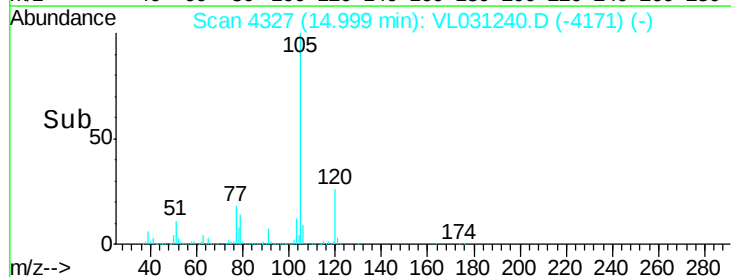
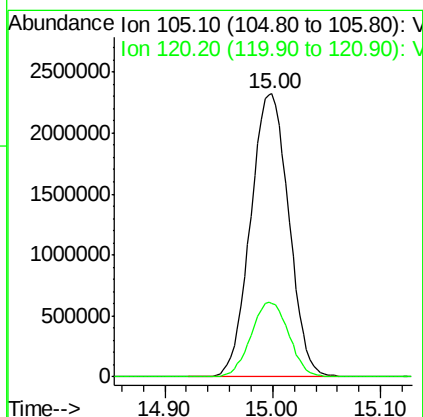
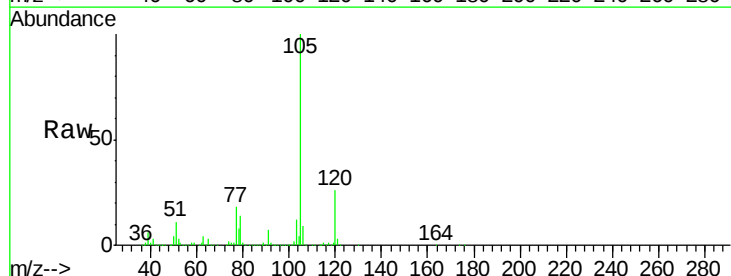
RT: 15.00 min Scan# 4327

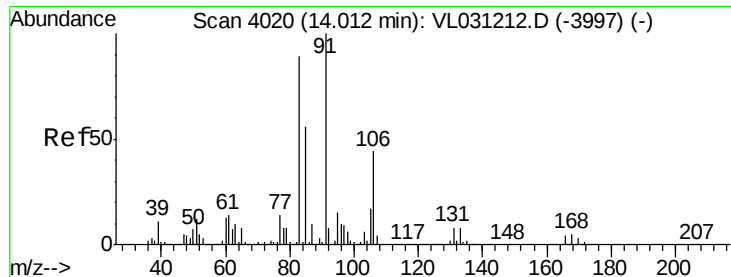
Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion:	105	Resp:	5706557
Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.0	31.6





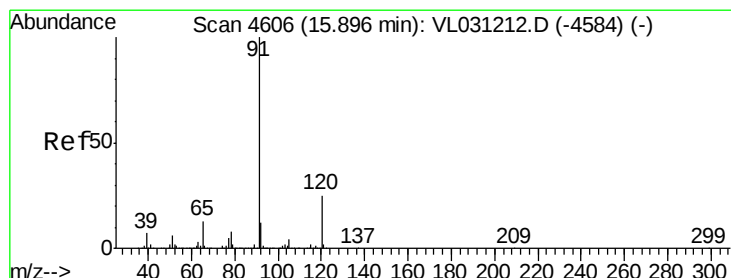
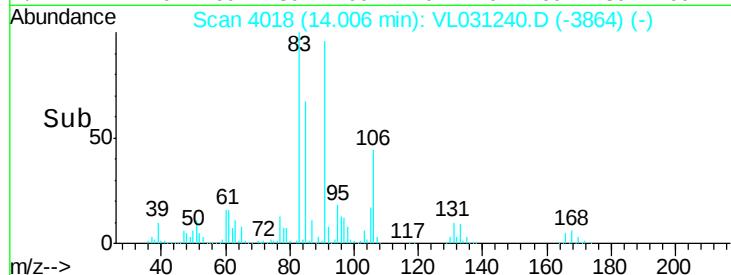
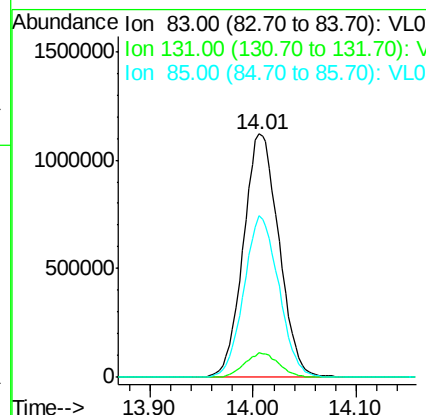
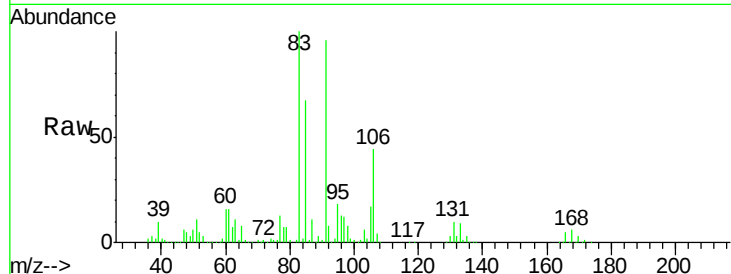
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.10 ppbv
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.01 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	65.5	32.1	96.5

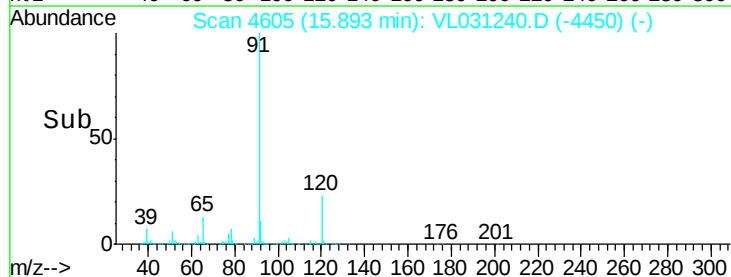
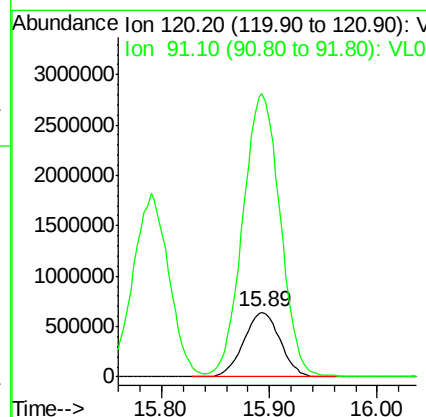
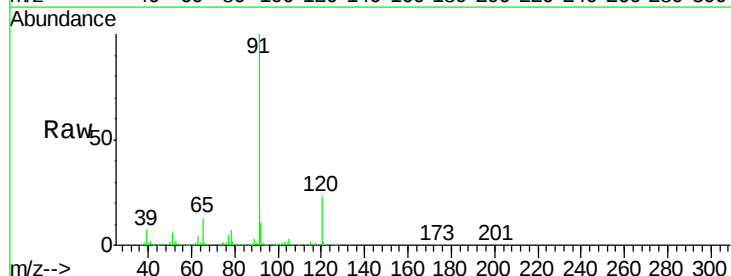
Manual Integrations
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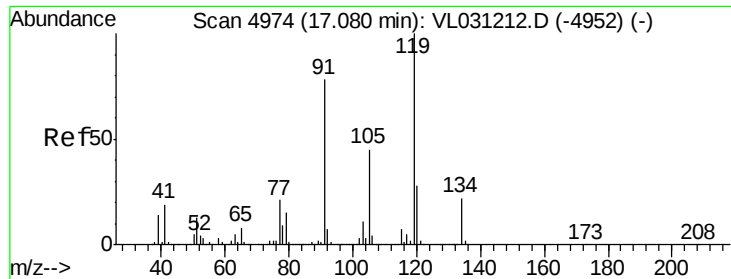
MMDadoda
 12/15/2017 4:07:20 PM



#64
 n-propylbenzene
 Concen: 7.70 ppbv
 RT: 15.89 min Scan# 4605
 Delta R.T. -0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
120	100		
91	449.1	352.1	528.1





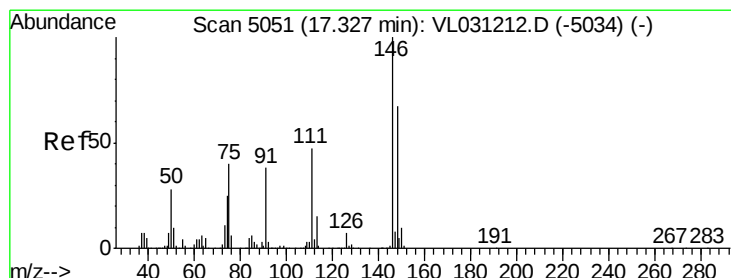
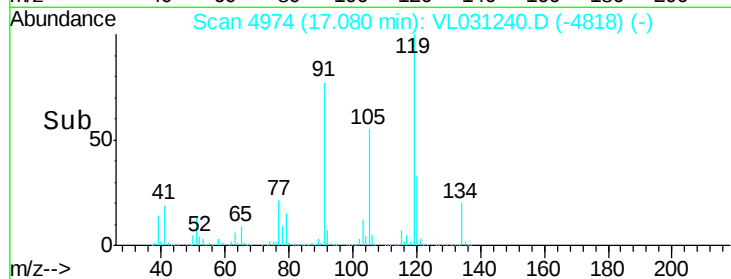
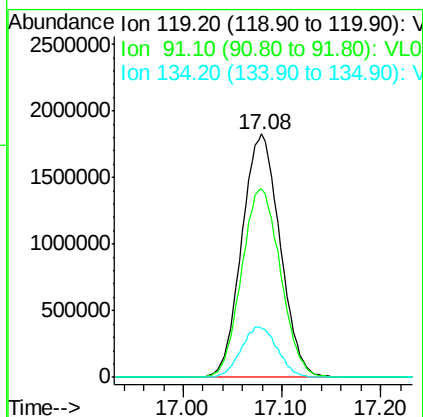
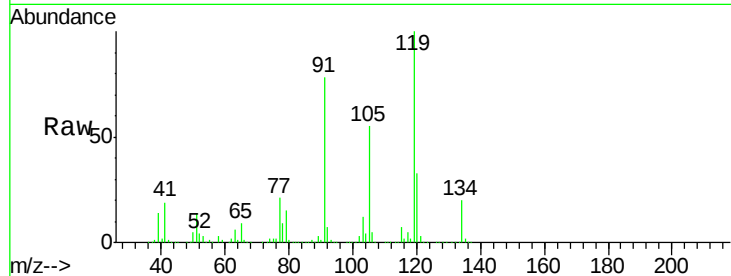
#65
tert-Butylbenzene
Concen: 7.46 ppbv
RT: 17.08 min Scan# 4974
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 4883471
Ion Ratio Lower Upper
119 100
91 79.1 63.3 94.9
134 19.9 16.1 24.1

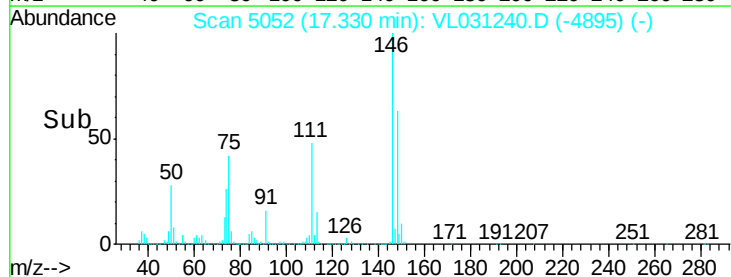
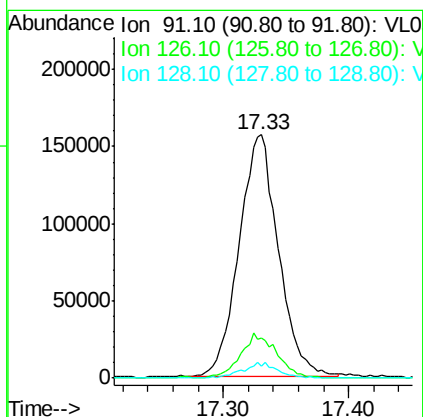
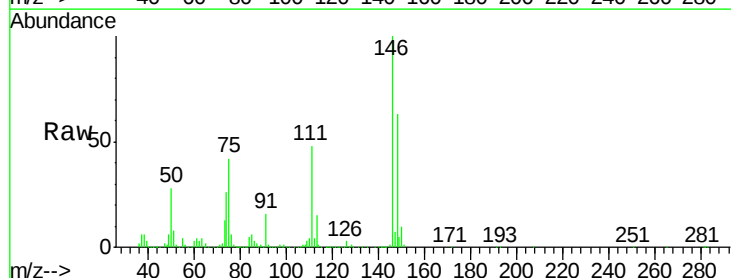
Manual Integrations
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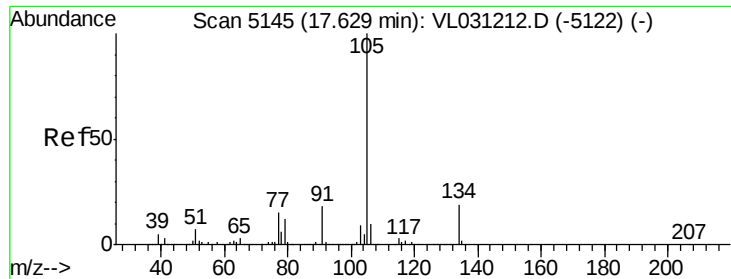
MMDadoda
12/15/2017 4:07:20 PM



#66
Benzyl Chloride
Concen: 4.85 ppbv
RT: 17.33 min Scan# 5052
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion: 91 Resp: 342207
Ion Ratio Lower Upper
91 100
126 17.4 15.2 22.8
128 5.8 4.9 7.3





#67

sec-Butylbenzene

Concen: 7.61 ppbv

RT: 17.63 min Scan# 5145

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6855571

Ion Ratio Lower Upper

105 100

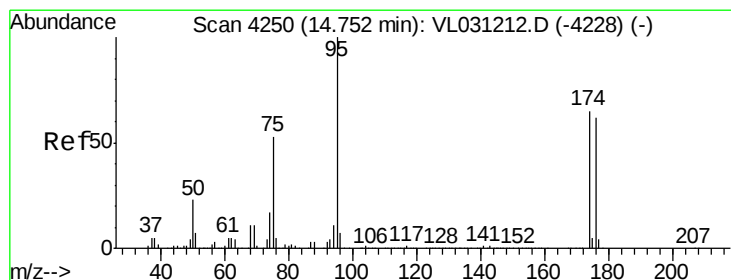
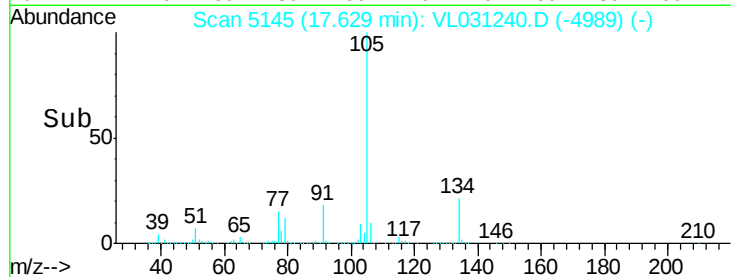
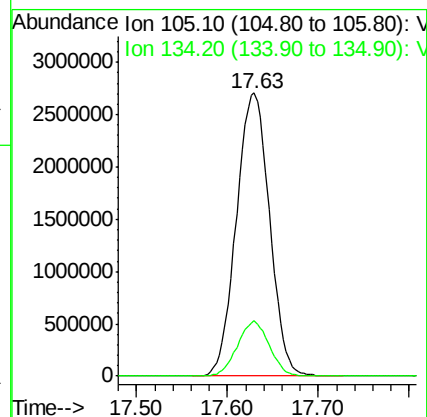
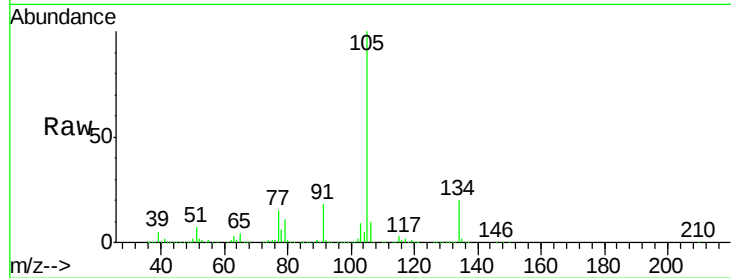
134 18.7 15.3 22.9

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.91 ppbv

RT: 14.75 min Scan# 4249

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

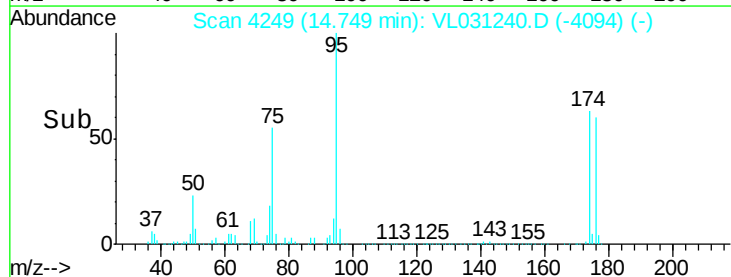
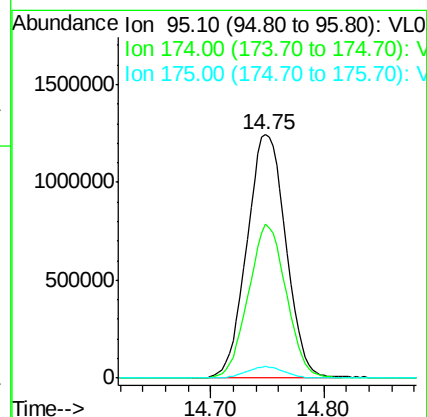
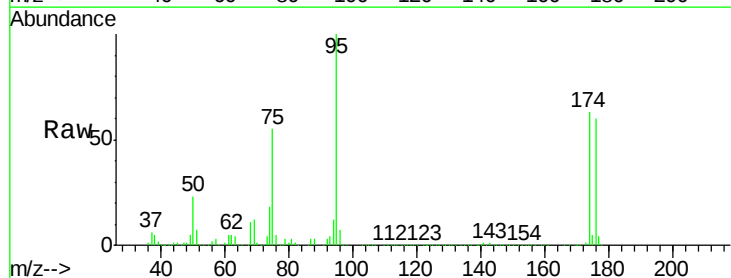
Tgt Ion: 95 Resp: 2982662

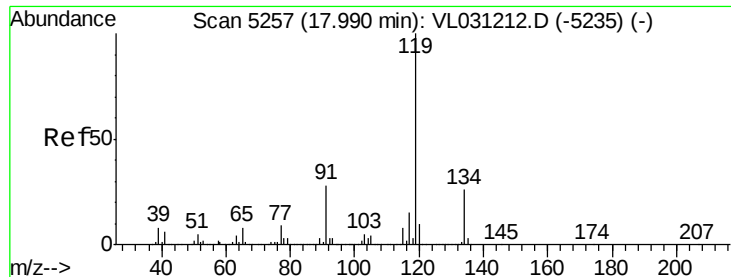
Ion Ratio Lower Upper

95 100

174 61.7 52.5 78.7

175 4.6 4.1 6.1





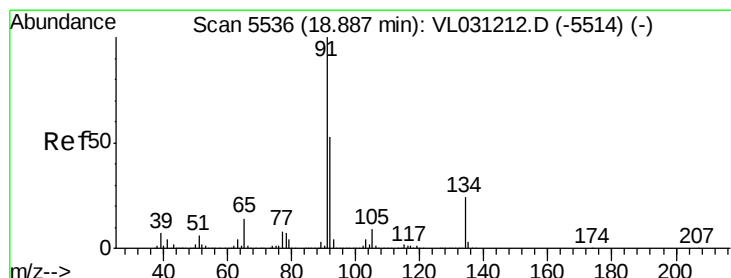
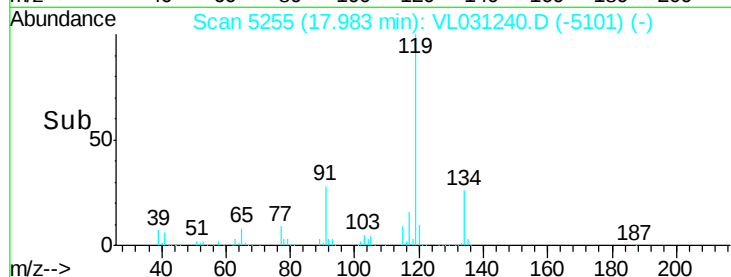
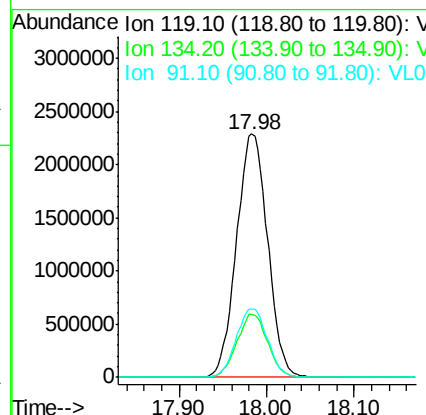
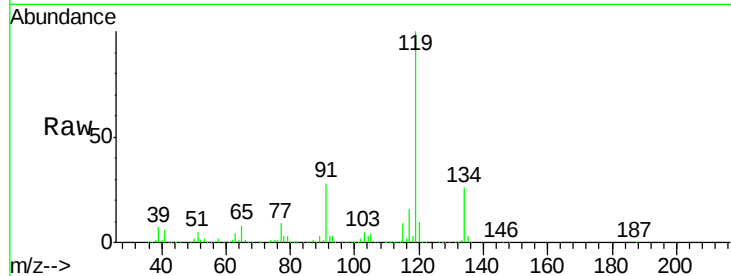
#69
p-Isopropyltoluene
Concen: 7.51 ppbv
RT: 17.98 min Scan# 5255
Delta R.T. -0.01 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.7	31.1
91	28.3	22.3	33.5

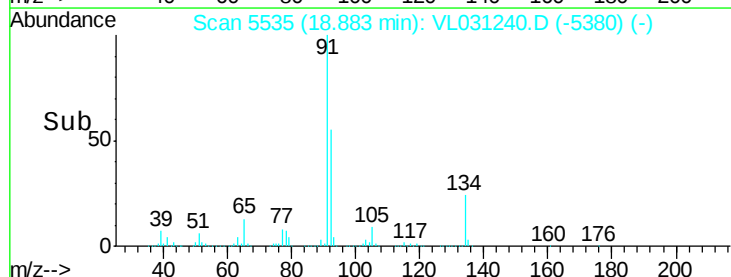
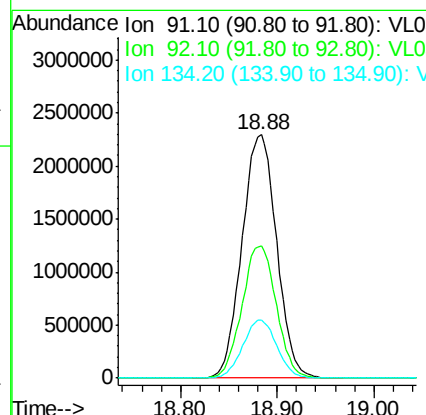
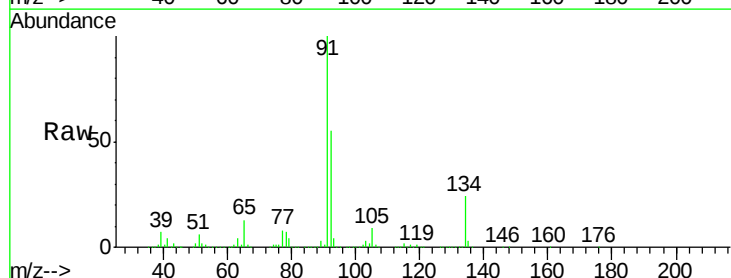
Manual Integrations
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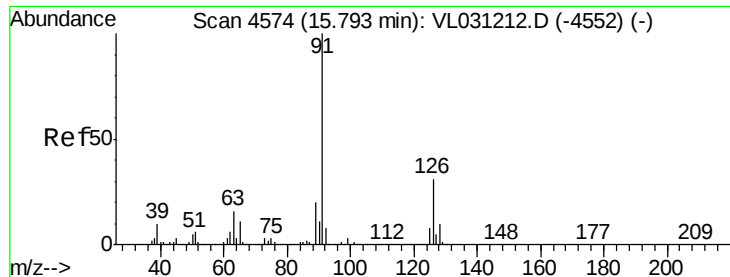
MMDadoda
12/15/2017 4:07:20 PM



#70
n-Butylbenzene
Concen: 7.88 ppbv
RT: 18.88 min Scan# 5535
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	43.4	65.2
134	23.5	19.3	28.9





#71

2-Chlorotoluene

Concen: 7.69 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4220160

Ion Ratio Lower Upper

91 100

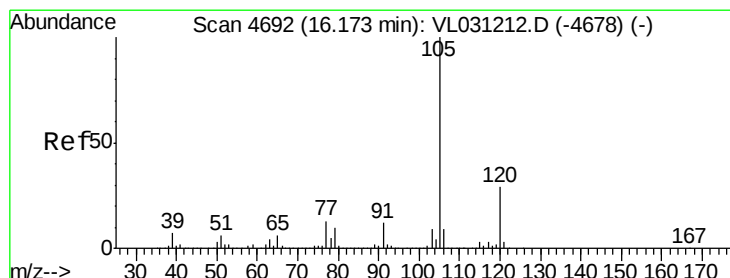
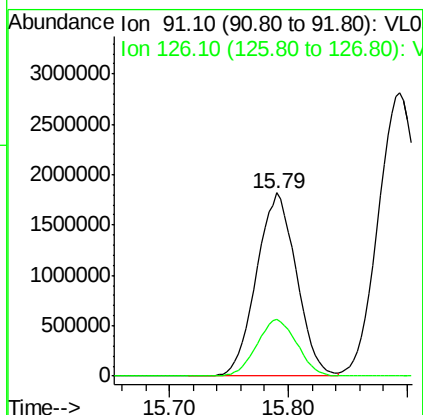
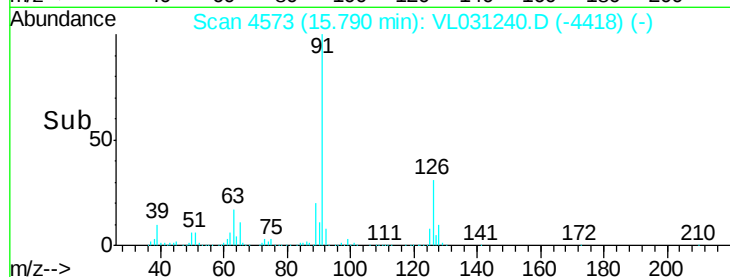
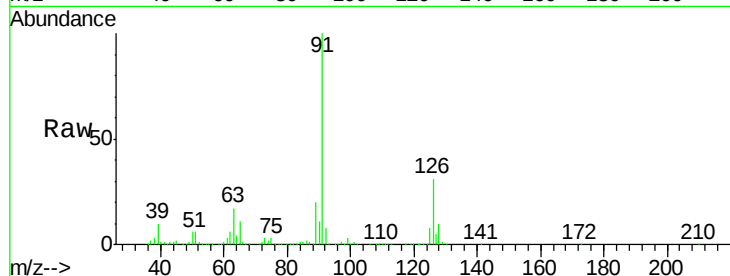
126 31.4 12.6 50.6

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#72

4-Ethyltoluene

Concen: 7.74 ppbv

RT: 16.17 min Scan# 4691

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion:105 Resp: 4781271

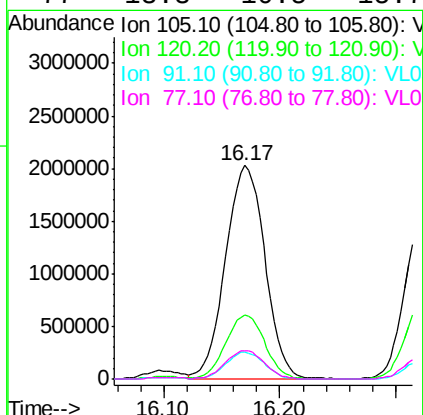
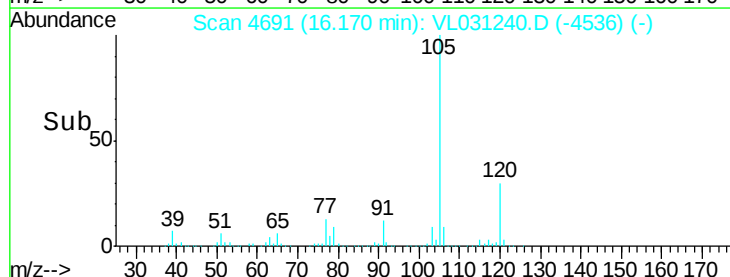
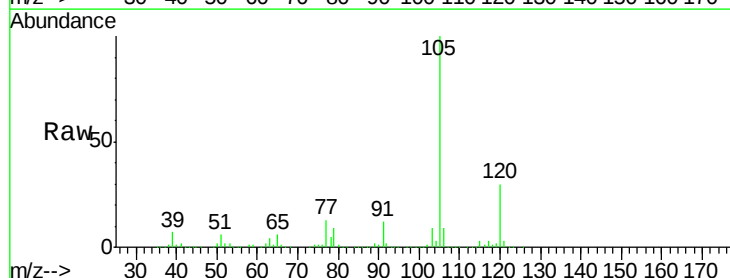
Ion Ratio Lower Upper

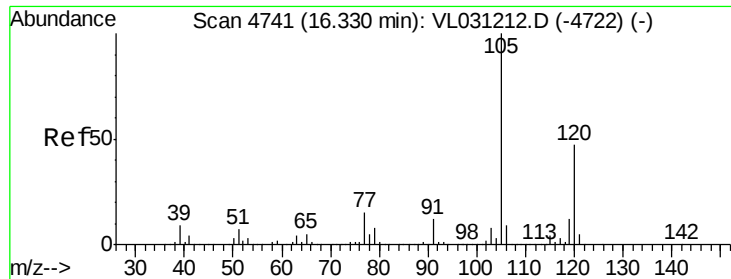
105 100

120 29.8 24.2 36.2

91 12.3 9.8 14.8

77 13.3 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 7.62 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4188145

Ion Ratio Lower Upper

105 100

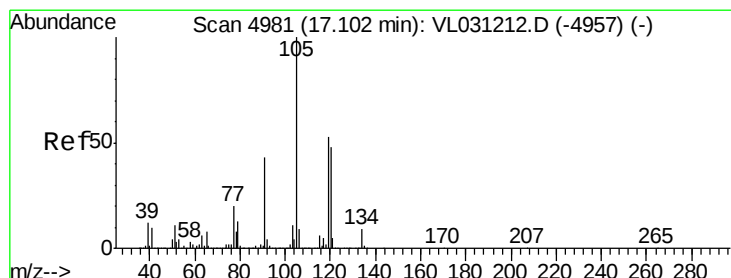
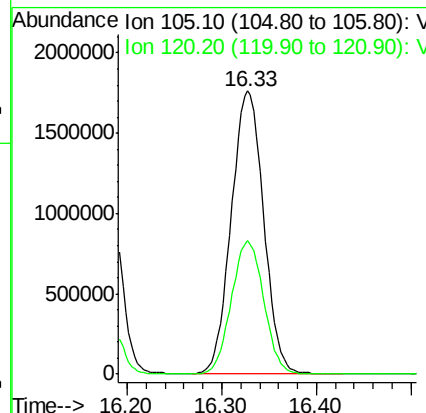
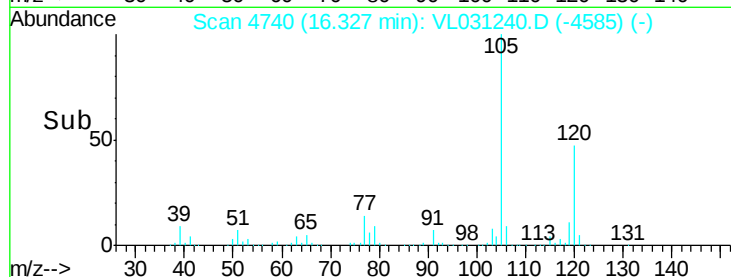
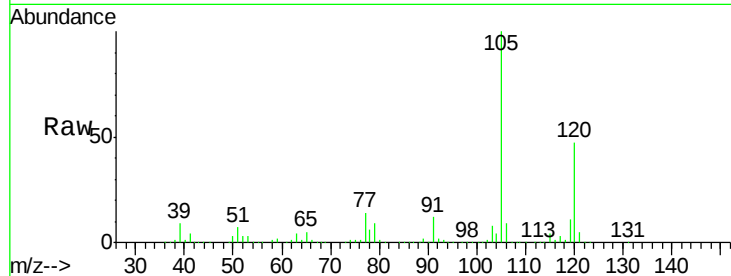
120 47.1 37.8 56.6

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 7.46 ppbv

RT: 17.10 min Scan# 4979

Delta R.T. -0.01 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Tgt Ion:105 Resp: 4315653

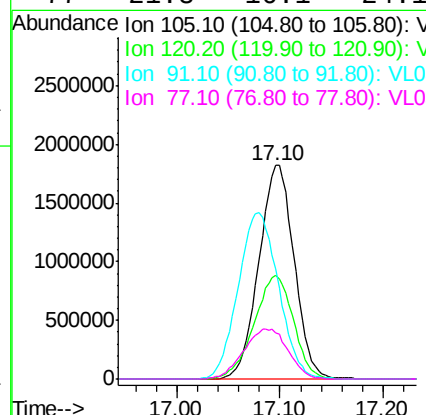
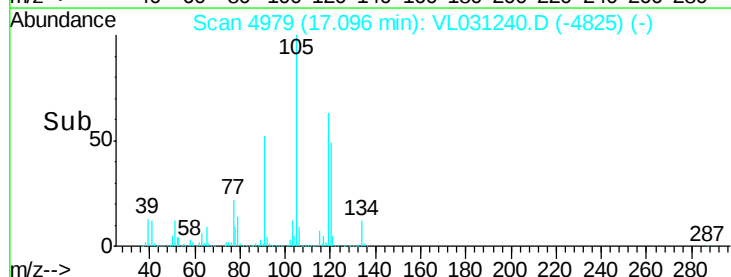
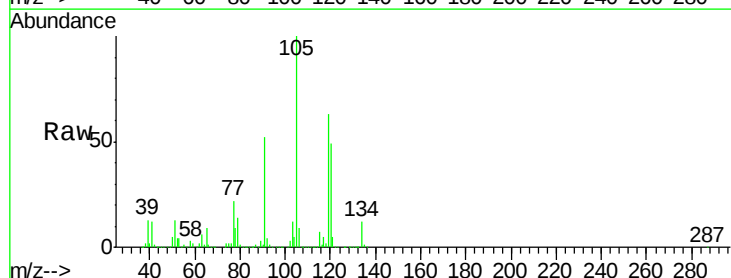
Ion Ratio Lower Upper

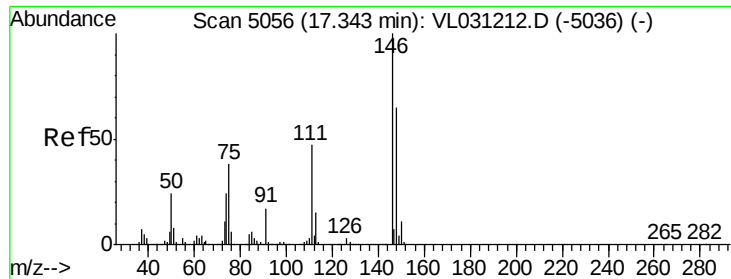
105 100

120 48.7 38.6 58.0

91 51.7 34.2 51.4#

77 21.8 16.1 24.1





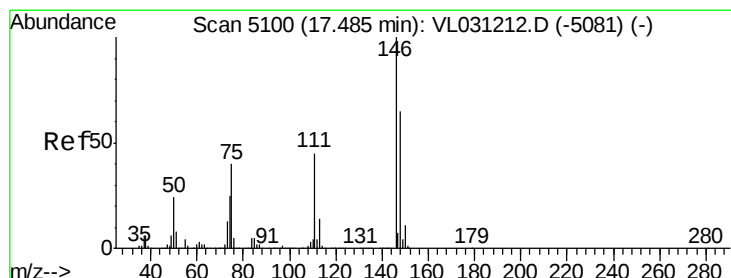
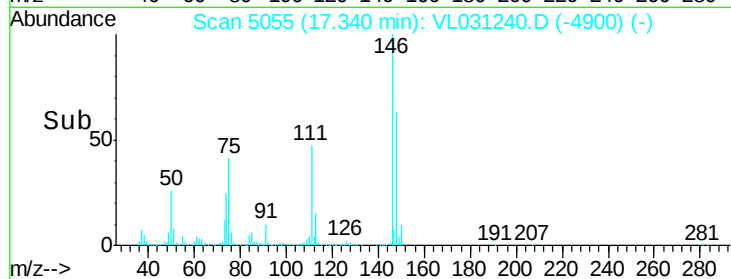
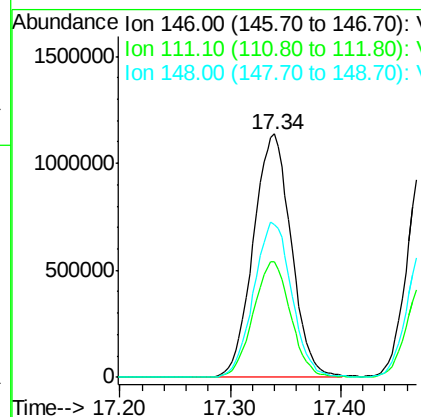
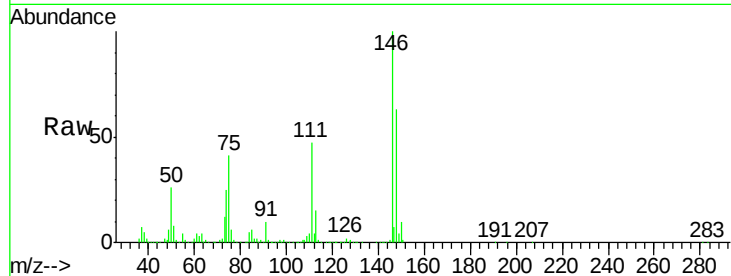
#75
 1,3-Dichlorobenzene
 Concen: 7.41 ppbv
 RT: 17.34 min Scan# 5055
 Delta R.T. -0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	22.7	68.1
148	64.1	32.0	96.2

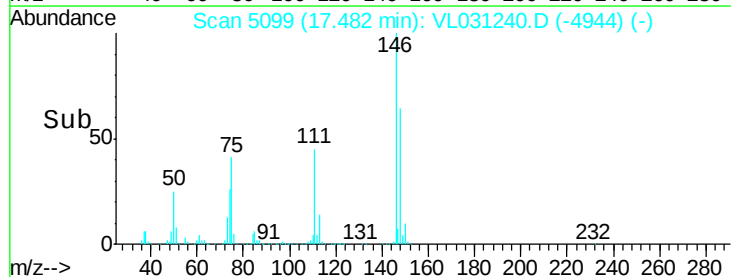
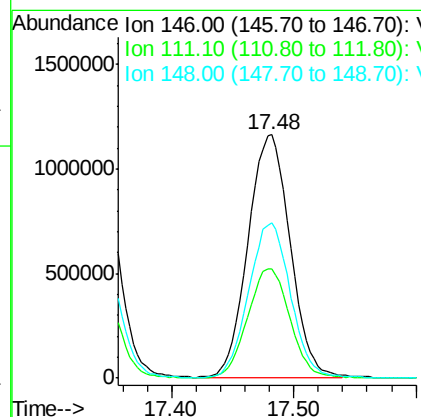
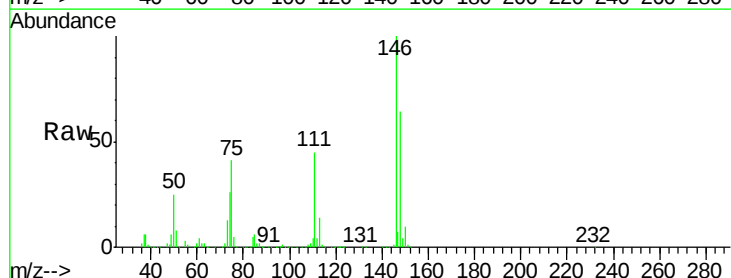
Manual Integrations
 APPROVED

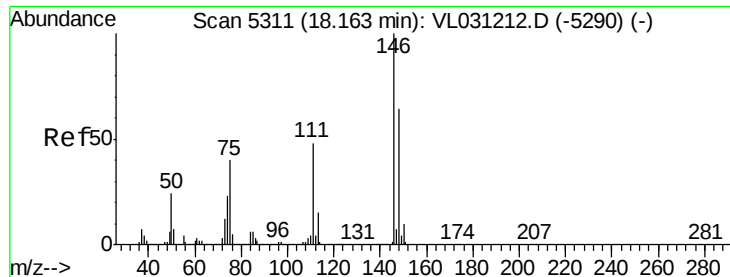
MMDadoda
 12/15/2017 4:07:20 PM



#76
 1,4-Dichlorobenzene
 Concen: 7.45 ppbv
 RT: 17.48 min Scan# 5099
 Delta R.T. -0.00 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.1	66.1
148	64.0	32.0	96.0





#77

1,2-Dichlorobenzene

Concen: 7.48 ppbv

RT: 18.16 min Scan# 5311

Delta R.T. 0.00 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2677893

Ion Ratio Lower Upper

146 100

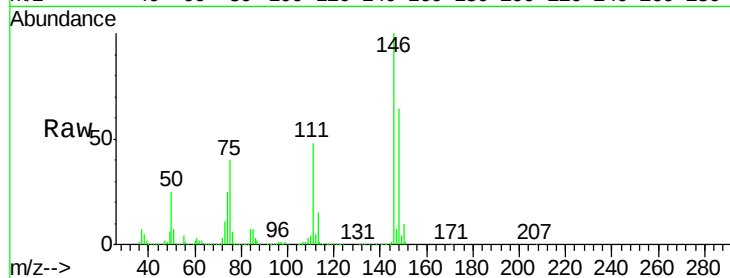
111 48.7 23.3 69.8

148 63.4 31.9 95.7

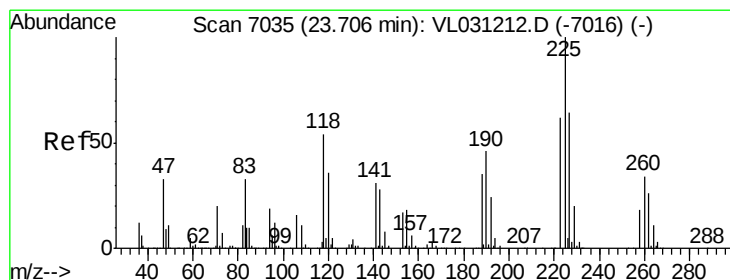
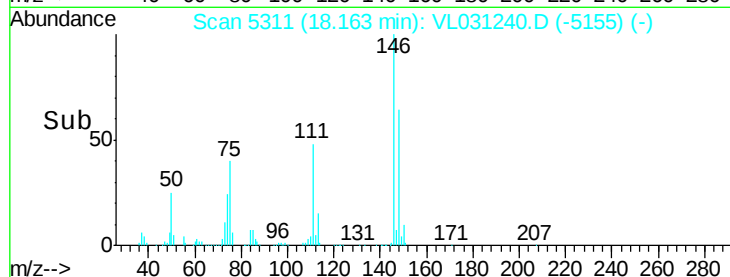
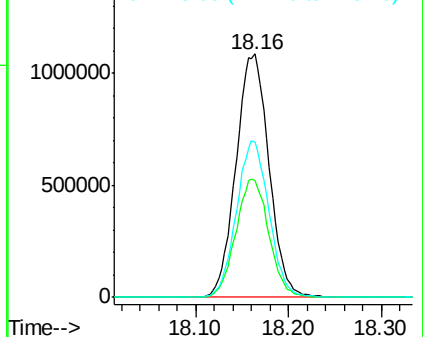
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 16.68 ppbv

RT: 23.70 min Scan# 7033

Delta R.T. -0.01 min

Lab File: VL031240.D

Acq: 14 Dec 2017 20:23

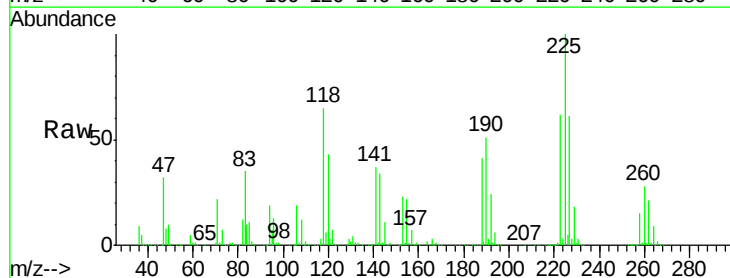
Tgt Ion:225 Resp: 1372411

Ion Ratio Lower Upper

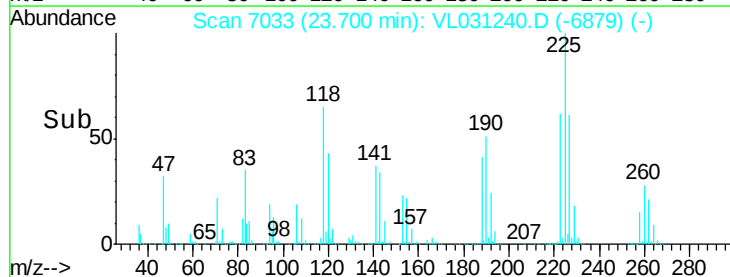
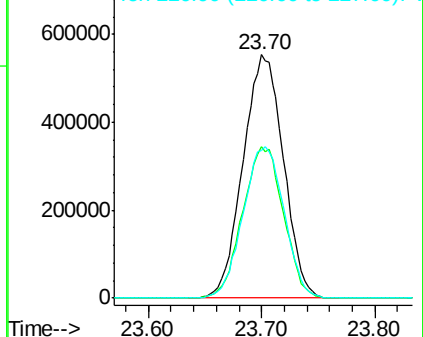
225 100

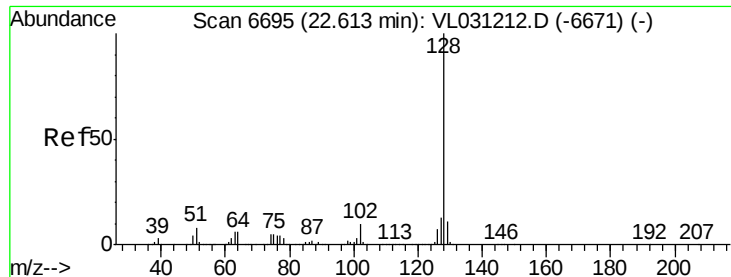
223 62.9 50.4 75.6

227 63.1 51.3 76.9



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





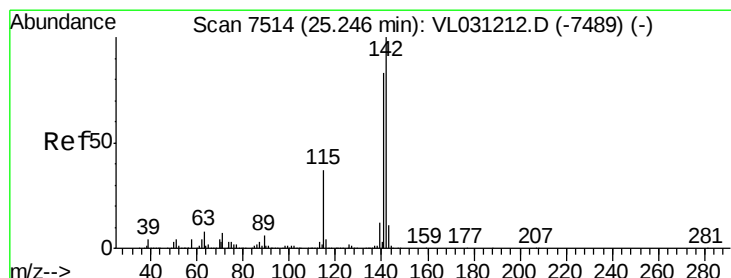
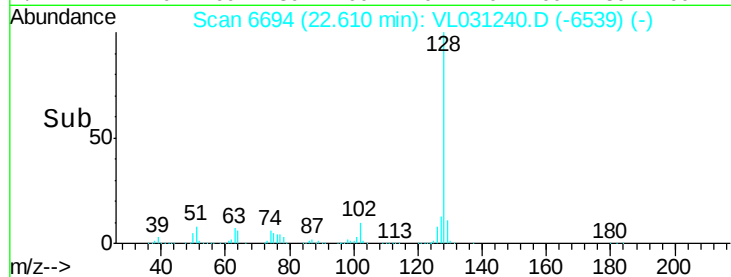
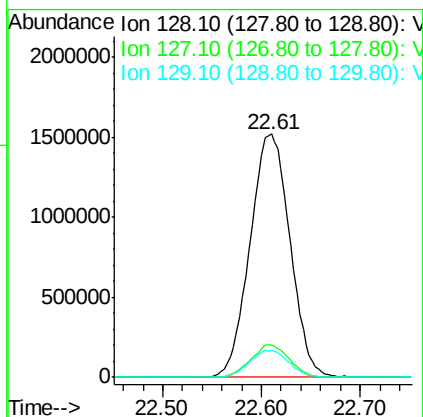
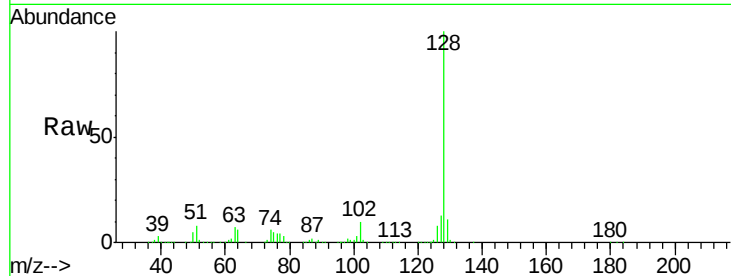
#79
Naphthalene
Concen: 9.08 ppbv
RT: 22.61 min Scan# 6694
Delta R.T. -0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.2	8.9	13.3

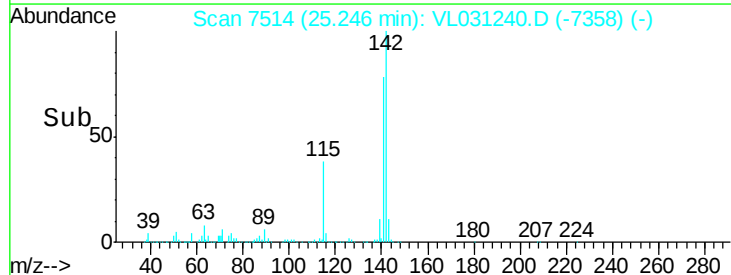
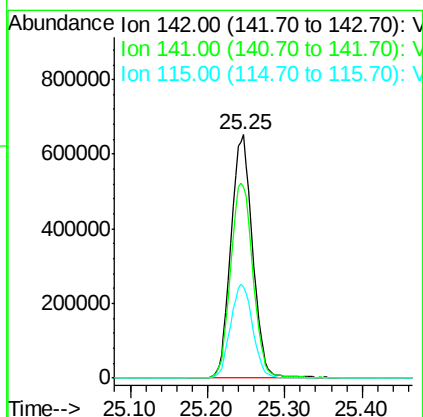
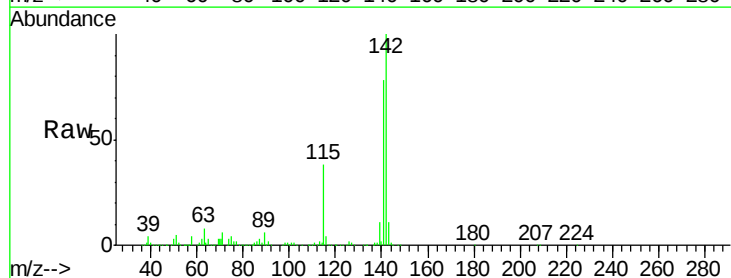
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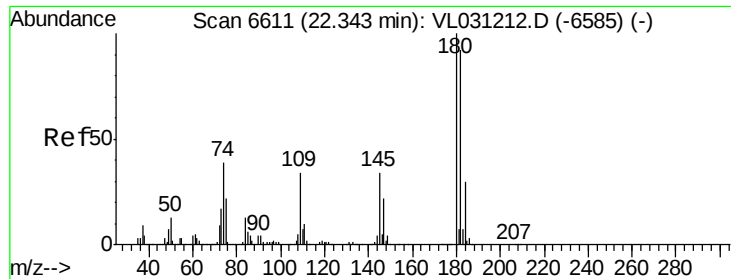
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#80
Naphthalene, 2-methyl-
Concen: 7.18 ppbv
RT: 25.25 min Scan# 7514
Delta R.T. 0.00 min
Lab File: VL031240.D
Acq: 14 Dec 2017 20:23

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.7	66.8	100.2
115	39.2	29.7	44.5





#81
 1,2,4-Trichlorobenzene
 Concen: 8.78 ppbv
 RT: 22.33 min Scan# 6608
 Delta R.T. -0.01 min
 Lab File: VL031240.D
 Acq: 14 Dec 2017 20:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.9	113.9
184	30.1	24.2	36.2

Manual Integrations
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